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Type I Data Package

Prepared for:

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

Project: Amtrak Wilmington
Soil and Water Samples
Collected on 07/13/12

SDG# ASX73

GROUP	SAMPLE NUMBERS
1322296	6721494-6721506

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-08A-TX

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: 08/14/2012**

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 Ext. 1375.

Total Number of Pages ___2371____

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2. Mercury Data 2344

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Sample Reference List for SDG Number ASX73 with a Data Package Type of I

11289 - Stantec

Project: Amtrak Wilmington

Lab Sample Number	Lab Sample Code	Client Sample Description
6721494	49--0	SB-49(0-2) PCBs Composite Soil
6721495	49--2	SB-49(2-4) Composite Soil
6721496	49--4	SB-49(4-5.8) Composite Soil
6721497	49-0C	SB-49(0-2) Composite Soil
6721498	49--1	SB-49(1.0-2.0) Grab Soil
6721499	32--0	SB-32(0.0-2.0) PCBs Composite Soil
6721500	32--2	SB-32(2.0-4.0) Composite Soil
6721501	32--4	SB-32(4.0-5.4) Composite Soil
6721502	32--1	SB-32(1.0-2.0) Grab Soil
6721503	32-0C	SB-32(0.0-2.0) Composite Soil
6721504	EB713	EB-07132012 Grab Water
6721505	TB713	Trip Blank-07132012 Water
6721506	SB713	Storage Blank Water

Environmental Analysis Request/Chain of Custody

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Acct. # 11289 Group # 1322296 Sample # 6721494-506

COC # 307582

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: Stantec Acct. #:
Project Name/#: Amtrak-Wilmington PWSID #:
Project Manager: Steve Baggett P.O.#: 2134020458
Sampler: Paul Miller Quote #:
Name of state where samples were collected: Delaware

For Lab Use Only
FSC:
SCR#: 124749

Preservation Codes
H=HCl T=Thiosulfate
N=HNO3 B=NaOH
S=H2SO4 O=Other

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water (Potable / NPDES / Ground / Surface)	Other:	Total # of Containers	PCBs-8082	VOCs-8260B	TPH-GRO	TPH-DRO	TAL-Metals	SVOCs-8270	Moisture			Remarks	Temperature of samples upon receipt (if requested)
SB-49(0-2)	7-13-12	0925		X	X			1	X									temp. 2.9°C	
SB-49(2-4)	7-13-12	0950		X	X			1	X										
SB-49(4-5.8)	7-13-12	1015		X	X			1	X										
SB-49(0-2)	7-13-12	1025		X	X			4			X	X	X	X	X				
SB-49(1.0-2.0)	7-13-12	1025	X		X			1		X									
SB-32(0.0-2.0)	7-13-12	1140		X	X			1	X										
SB-32(2.0-4.0)	7-13-12	1205		X	X			1	X										
SB-32(4.0-5.4)	7-13-12	1220		X	X			1	X										
SB-32(1.0-2.0)	7-13-12	1225	X		X			1		X									
SB-32(0.0-2.0)	7-13-12	1225		X	X			4			X	X	X	X	X				

Remarks: Require Delaware VCP Data Package

(7) **Turnaround Time Requested** (TAT) (please circle): Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone E-mail
Phone #: paul.miller@stantec.com
E-mail address: 610-840-2551

(8) **Data Package Options** (please circle if required)
Type I (Validation/non-CLP) MA MCP CT RCP
Type III (Reduced non-CLP)
Type IV (CLP SOW)
Type VI (Raw Data Only)
TX TRRP-13

EDD Required? Yes No

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

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
Bethstorge			[signature]	7/16/12	800
[signature]	7/16/12	940	[signature]	7-16-12	
[signature]	7-16-12	1032	[signature]	7/16/12	1057
[signature]	7/16/12	1535			
			[signature]	7/16/12	1535

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Environmental Analysis Request/Chain of Custody

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Acct. # 11289 Group # 1822296 Sample # 6721494-506

COC # 307583

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: Stantec Accl. #:
Project Name/#: Amtrak-Wilmington PWSID #:
Project Manager: Steve Baggett P.O.#: 2134020418
Sampler: Paul Miller Quote #:
Name of state where samples were collected: Delaware

For Lab Use Only
FSC:
SCR#:

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

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Sediment	Soil	Ground	Surface	Potable	NPDES	Water	Other:	Total # of Containers	PCBs-8082	VOCs-8260B	TPH-GRO	TPH-DRO	TAL-Metals	SVOCs-8270	-			Temperature of samples upon receipt (if requested)	Remarks
EB-07132012	7-13-12	1250	X								X		11	X	X	X	X	X	X				temp) 2.9°C	
Trip Blank-07132012	7-13-12										X		3		X									

*Require Delaware VCP Data Package

(7)
Turnaround Time Requested (TAT) (please circle): Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone E-mail
Phone #: (610-840-2551
E-mail address: paul.miller@stantec.com

(8)
Data Package Options (please circle if required)
Type I (Validation/non-CLP) MA MCP CT RCP
Type III (Reduced non-CLP)
Type IV (CLP SOW)
Type VI (Raw Data Only)
TX TRRP-13

EDD Required? Yes No

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

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	7-16-12	1037	[signature]	7/16/12	1037
[signature]	7/16/12	1535			
			[signature]	7/16/12	1535

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Environmental Sample Administration
Receipt Documentation Log

Client/Project: Stantec

Date of Receipt: 7/16/12

Time of Receipt: 1535

Source Code: 01

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	9422	2.9°C	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [signature] 1259 **Date/Time:** 6/13/12 1535

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2174.06

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GC/MS Volatiles pH Log

Batch #: T122001AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
6721504	<2	7/18/2012	SG 3174	038a
6721505	<2	7/18/2012	SG 3174	038a
6721506	<2	7/18/2012	SG 3174	038a
6722557	<2	7/18/2012	SG 3174	038a
6722558	<2	7/18/2012	SG 3174	038a
6722735	<2	7/18/2012	SG 3174	038a
6722736	<2	7/18/2012	SG 3174	038a
6722732	<2	7/18/2012	SG 3174	038a
6722732	<2	7/18/2012	SG 3174	038b
6722733	<2	7/18/2012	SG 3174	038a
6722734	<2	7/18/2012	SG 3174	038a
6722734	<2	7/18/2012	SG 3174	038b
6712889	<2	7/18/2012	SG 3174	038a
6712889DL	<2	7/18/2012	SG 3174	038a

Batchlog Summary 12201A20A

QC	ID	Sample Code	Amt	SS/IS S	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	SW	DF	PH	BC	Comments
6724333MS	AA	TTM02MS	1.00	SS1218025B	0.0002	MS1217425A	0.000220	1		1.00		026A	
6724333MSD	AA	TTM02MS	1.00	SS1218025B	0.0002	MS1217425A	0.000220	1		1.00		026A	
BLANKA	AA	BLKQ5	1.00	SS1218025B	0.0002			1		1.00			
LCSA	AA	LCSHL	1.00	SS1218025B	0.0002	MS1217425A	0.000220	1		1.00			Prep 7/19/12

Sample#	ID	Sample Code	Amt	SS/IS Std.	Amt (mL)	FV (mL)	SW	DF	PH	BC	HS	Due Date	Hold Date	P	Analyses	Comments
6719566	AA	CNT01	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/25	7/26	P	01635	
6719567	AA	CNT02	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/25	7/26	P	01635	
6719568	AA	CNT03	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/25	7/26	P	01635	
6720307	AA	EMSIN	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/25	7/25	P	01635	
6720308	AA	EMSMD	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/25	7/25	P	01635	
6721475	AA	MESIN	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/25	7/30	P	01635	
6721504	AA	EB713	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/26	7/27	N	01635	
6724332	AA	TTM01	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/27	7/31	P	01635	
6724333	AA	TTM02	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/27	7/31	P	01635	
6724423	AA	SUM3T	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/30	7/30	N	01635	
6724424	AA	SUM3A	1.00	SS1218025B	0.0010	1		5.00	≤2	026A	☐	7/30	7/30	N	01635	
6724425	AA	SUM3B	1.00	SS1218025B	0.0010	1		5.00	≤2	026A	☐	7/30	7/30	N	01635	
6724426	AA	SUMP4	1.00	SS1218025B	0.0010	1		5.00	≤2	026A	☐	7/30	7/30	N	01635	
6724427	AA	WESTP	1.00	SS1218025B	0.0002	1		1.00	≤2	026A	☐	7/30	7/30	N	01635	
6724428	AA	SUMP1	1.00	SS1218025B	0.0010	1		5.00	≤2	026A	☐	7/30	7/30	N	01635	

Spike Solutions:

MS1217425A Waters GRO Spike #2
SS1218025B #20 TFT Surrogate Soln.

Analyst: QS 1932
Date: 7/19/12

Verifier: [illegible]
Date: 07/20/12

Comments

ASX73 0006

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pH Historical Data

Bottle Code	Expected pH	Actual pH	Adjusted pH	Lot #	Preservative	Lab Submitted?	Sub-contracted?	Preservation Code	Date Entered
Stephanie Sanchez									
SDG: ASX73									
Group: 1322296									
Sample: 6721504									
008A	<2	<2			HNO3	Y	N	PK - Original container checked - pH is within correct range. (No preservative was added)	07/17/2012
Sarah Guill									
SDG: ASX73									
Group: 1322296									
Sample: 6721504									
038A	<2	<2			HCl	Y	N	NA - Not applicable	07/18/2012
Check					Present?	Corrective Substance		Lot #	
Cl-					N				
Sample: 6721505									
038A	<2	<2			HCl	Y	N	NA - Not applicable	07/18/2012
Check					Present?	Corrective Substance		Lot #	
Cl-					N				
Sample: 6721506									
038A	<2	<2			HCl	Y	N	NA - Not applicable	07/18/2012
Check					Present?	Corrective Substance		Lot #	
Cl-					N				

* linked sample

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01163 GC/MS VOA Water Prep
01146 GC VOA Water Prep

An undiluted aliquot of the water sample or a dilution of the sample is purged with an inert gas and the volatiles are collected on an adsorbent trap that is subsequently desorbed onto a gas chromatographic column.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 5030B, December 1996.

10903 8260 Std. Water Master

The water sample is purged and the volatile compounds are collected on a sorbent trap that is subsequently desorbed onto the GC/MS system for chromatographic and mass spectral analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8260B, December 1996

10237 8260 Ext. Soil Master w/GRO

The soil sample is purged and the volatile compounds are collected on a sorbent trap that is subsequently desorbed onto the GC/MS system for chromatographic and mass spectral analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8260B, December 1996

00259 Mercury

The solution resulting from the mercury digestion is analyzed by Cold Vapor AA.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 7470A, September 1994

00159 Mercury

The solution resulting from the mercury digestion is analyzed by Cold Vapor AA.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 7471A, September 1994

01848 WW SW846 ICP Digest (tot rec)

The sample is digested with nitric acid and hydrochloric acid.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3005A, July 1992

05713 WW SW846 Hg Digest

The sample is heated at 95 c with nitric acid, sulfuric acid, potassium persulfate, and potassium permanganate. Excess potassium permanganate is reduced with sodium chloride/hydroxylamine hydrochloride. Mercuric ions are reduced to mercury metal using stannous chloride.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 7470A, September 1994

05711 SW SW846 Hg Digest

The sample is heated at 95 c with nitric acid, sulfuric acid, potassium persulfate, and potassium permanganate. Excess potassium permanganate is reduced with sodium chloride/hydroxylamine hydrochloride. Mercuric ions are reduced to mercury metal using stannous chloride.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 7471A Modified, September 1994.

01743 Aluminum
01643 Aluminum
07044 Antimony
06944 Antimony
06935 Arsenic
07035 Arsenic
06946 Barium
07046 Barium
06947 Beryllium
07047 Beryllium
07049 Cadmium
06949 Cadmium
01650 Calcium
01750 Calcium
06951 Chromium
07051 Chromium
07052 Cobalt
06952 Cobalt
06953 Copper
07053 Copper
01754 Iron
01654 Iron
06955 Lead
07055 Lead
01657 Magnesium
01757 Magnesium
06958 Manganese
07058 Manganese
07061 Nickel
06961 Nickel
01762 Potassium
01662 Potassium
06936 Selenium
07036 Selenium
07066 Silver
06966 Silver
01667 Sodium
01767 Sodium
07022 Thallium
06925 Thallium
06971 Vanadium
07071 Vanadium
06972 Zinc
07072 Zinc

The solution resulting from the metals digestion is analyzed by Trace ICP.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 6010B, December 1996.

05708 SW SW846 ICP/ICP MS Digest

The sample is digested with nitric acid, hydrochloric acid and hydrogen peroxide.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3050B, December 1996

10227 PCBs in Water

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.

11117 PCB Waters Extraction

The sample is solvent extracted and exchanged to hexane. Florisil cleanup is 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 Wastes, SW-846 Method 3510C, December 1996

10736 PCBs in Soil (microwave)

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.

10497 PCB Microwave Soil Extraction
10809 BNA Soil Microwave
10942 Microwave Extraction-DRO soils

The sample aliquot is extracted using microwave extraction with 1:1 methylene chloride and acetone. The extract is concentrated prior to analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3546, Revision 0, February 2007.

01635 TPH-GRO water C6-C10

The volatile compounds are extracted by bubbling an inert gas through the sample and collecting them on a sorbent trap. The trap is thermally desorbed onto a capillary column and analysis is performed using gas chromatography with a flame ionization detector (FID) and, optionally, a photoionization detector (PID) in series. Quantitation for Gasoline Range Organics (GRO) is performed using the total peak area detected within the hydrocarbon range defined in the method.

Reference: Test Methods for Evaluating Solid Wastes SW-846, Method 8015B Modified, December 1996.

01637 TPH-GRO soil C6-C10

The volatile compounds are first extracted from the sample with methanol. The resulting extract is diluted prior to analysis. The volatile compounds are extracted by bubbling an inert gas through the sample and collecting them on a sorbent trap. The trap is thermally desorbed onto a capillary column and analysis is performed using gas chromatography with a flame ionization detector (FID) and, optionally, a photoionization detector (PID) in series. Quantitation for Gasoline Range Organics (GRO) is performed using the total peak area detected within the hydrocarbon range defined in the method.

Reference: Test Methods for Evaluating Solid Wastes SW-846, Method 8015B Modified, December 1996.

00813 BNA Water Extraction

The sample aliquot is extracted with methylene chloride by either separatory funnel or liquid/liquid apparatus. Extraction is performed at both a pH of 11 and 2. The extract is concentrated prior to analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3510C, December 1996

10727 TCL 8270 (microwave)
04678 TCL SW846 Semivolatiles/Waters

The sample extract is analyzed by capillary column Gas Chromatography/Mass Spectrometry.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8270C, December 1996

10941 TPH-DRO soil C10-C28 microwave
08269 TPH-DRO water C10-C28

Sample extracts in methylene chloride are analyzed by capillary chromatography using flame ionization detection. Quantitation is performed using the total peak area detected within the hydrocarbon ranges defined in the method.

Reference: Test Methods for Evaluating Solid Wastes SW-846, Method 8015B, December 1996

07003 Extraction - DRO (Waters)

A measured volume of water is serially liquid/liquid extracted with methylene chloride in a separatory funnel. The serial extracts are combined, dried and concentrated.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3510C, December 1996

00111 Moisture

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, 20th Edition, 1998, Method 2540 G

06172 GC/MS - Field Preserved (DE)

The sample is collected and preserved with methanol in the field using jars that were prepared and pre-weighed at the laboratory. The preparation consist of adding 10 mls of methanol and the appropriate amount of 8260 surrogate spiking solution to a 40 ml vial. Once in the field, 10g +/- 1g of soil is added to the jar and then iced at 4 +/- 2 degree C until the time they are returned to the lab. Upon receipt from the field, the container is then re-weighed to determine the exact weight of the soil added to the vial.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 5035 Modified, November 2004.

00374 GC/MS - Bulk Soil Prep

Samples are field collected in glass containers, and preserved within 48 hours. An aliquot of the soil sample is prepared in reagent water and is purged at 40oC with helium.

Reference: Test Methods for Evaluating Solid Waste, SW-846, Method 5035A Modified, July 2002.

06646 GC/MS HL Bulk Sample Prep

Samples are field collected in glass containers, and preserved within 48 hours. An aliquot of the methanolic extract of the sample is diluted in reagent water and purged at ambient temperature with helium.

Reference: Test Methods for Evaluating Solid Waste, SW-846, Method 5035A Modified, July 2002.

01150 GC - Bulk Soil Prep

Samples are field collected in glass containers, and preserved within 48 hours. An aliquot of the methanolic extract of the sample is diluted in reagent water and purged at ambient temperature with helium.

Reference: Test Methods for Evaluating Solid Waste, SW-846, Method 5035A Modified, July 2002.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

July 27, 2012

Project: Amtrak Wilmington

Submittal Date: 07/16/2012
Group Number: 1322296
SDG: ASX73
PO Number: 213402048
State of Sample Origin: DE

Client Sample Description	Lancaster Labs (LLI) #
SB-49(0-2) Composite Soil	6721494
SB-49(2-4) Composite Soil	6721495
SB-49(4-5.8) Composite Soil	6721496
SB-49(0-2) Composite Soil	6721497
SB-49(1.0-2.0) Grab Soil	6721498
SB-32(0.0-2.0) Composite Soil	6721499
SB-32(2.0-4.0) Composite Soil	6721500
SB-32(4.0-5.4) Composite Soil	6721501
SB-32(1.0-2.0) Grab Soil	6721502
SB-32(0.0-2.0) Composite Soil	6721503
EB-07132012 Grab Water	6721504
Trip Blank-07132012 Water	6721505
Storage Blank Water	6721506

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

ELECTRONIC COPY TO	Stantec	Attn: Steve Baggett
ELECTRONIC COPY TO	Stantec	Attn: Paul Miller
1 COPY TO	Data Package Group	

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Lancaster Laboratories, Inc.
2425 New Holland Pike
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Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

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 of gas 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.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC 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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

Sample Description: SB-49(0-2) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721494
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 09:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

49--0 SDG#: ASX73-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	< 3,600	3,600	200
10736	PCB-1221	11104-28-2	< 3,600	3,600	200
10736	PCB-1232	11141-16-5	< 3,600	3,600	200
10736	PCB-1242	53469-21-9	< 3,600	3,600	200
10736	PCB-1248	12672-29-6	< 3,600	3,600	200
10736	PCB-1254	11097-69-1	9,300	3,600	200
10736	PCB-1260	11096-82-5	8,500	3,600	200
Wet Chemistry	**SM20 2540 G**		%	%	
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 above is on an as-received basis.

General 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
10736	7 PCBs in Solids	SW-846 8082	1	121990024A	07/20/2012 04:42	Monica M Souders	200
10497	PCB Microwave Soil Extraction	SW-846 3546	1	121990024A	07/18/2012 07:15	Katheryne V Sponheimer	1
00111	Moisture	SM20 2540 G	1	12200820005A	07/18/2012 17:47	Scott W Freisher	1

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Analysis Report

Sample Description: SB-49(2-4) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721495
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 09:50 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

49--2 SDG#: ASX73-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**	**ug/kg**	
10736	PCB-1016	12674-11-2	< 3,600	3,600	200
10736	PCB-1221	11104-28-2	< 3,600	3,600	200
10736	PCB-1232	11141-16-5	< 3,600	3,600	200
10736	PCB-1242	53469-21-9	< 3,600	3,600	200
10736	PCB-1248	12672-29-6	< 3,600	3,600	200
10736	PCB-1254	11097-69-1	11,000	3,600	200
10736	PCB-1260	11096-82-5	9,000	3,600	200
Wet Chemistry	**SM20 2540 G**		**%**	**%**	
00111	Moisture	n.a.	7.8	0.50	1

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

General 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
10736	7 PCBs in Solids	SW-846 8082	1	121990024A	07/20/2012 05:27	Monica M Souders	200
10497	PCB Microwave Soil Extraction	SW-846 3546	1	121990024A	07/18/2012 07:15	Katheryne V Sponheimer	1
00111	Moisture	SM20 2540 G	1	12200820005A	07/18/2012 17:47	Scott W Freisher	1

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Analysis Report

Sample Description: SB-49(4-5.8) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721496
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 10:15 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

49--4 SDG#: ASX73-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**	**ug/kg**	
10736	PCB-1016	12674-11-2	< 460	460	25
10736	PCB-1221	11104-28-2	< 460	460	25
10736	PCB-1232	11141-16-5	< 460	460	25
10736	PCB-1242	53469-21-9	< 460	460	25
10736	PCB-1248	12672-29-6	< 460	460	25
10736	PCB-1254	11097-69-1	< 460	460	25
10736	PCB-1260	11096-82-5	560	460	25
Wet Chemistry	**SM20 2540 G**		**%**	**%**	
00111	Moisture	n.a.	9.9	0.50	1

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

General 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
10736	7 PCBs in Solids	SW-846 8082	1	121990024A	07/24/2012 23:56	Jessica L Miller	25
10497	PCB Microwave Soil Extraction	SW-846 3546	1	121990024A	07/18/2012 07:15	Katheryne V Sponheimer	1
00111	Moisture	SM20 2540 G	1	12200820005A	07/18/2012 17:47	Scott W Freisher	1

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Analysis Report

Sample Description: SB-49(0-2) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721497
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 10:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

49-0C SDG#: ASX73-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	< 89	89	5
10727	Acenaphthylene	208-96-8	< 89	89	5
10727	Anthracene	120-12-7	< 89	89	5
10727	Benzo(a)anthracene	56-55-3	110	89	5
10727	Benzo(a)pyrene	50-32-8	120	89	5
10727	Benzo(b)fluoranthene	205-99-2	240	89	5
10727	Benzo(g,h,i)perylene	191-24-2	130	89	5
10727	Benzo(k)fluoranthene	207-08-9	< 89	89	5
10727	4-Bromophenyl-phenylether	101-55-3	< 170	170	5
10727	Butylbenzylphthalate	85-68-7	< 870	870	5
10727	Di-n-butylphthalate	84-74-2	< 870	870	5
10727	Carbazole	86-74-8	< 170	170	5
10727	4-Chloro-3-methylphenol	59-50-7	< 170	170	5
10727	4-Chloroaniline	106-47-8	< 170	170	5
10727	bis(2-Chloroethoxy)methane	111-91-1	< 170	170	5
10727	bis(2-Chloroethyl)ether	111-44-4	< 170	170	5
10727	2-Chloronaphthalene	91-58-7	< 170	170	5
10727	2-Chlorophenol	95-57-8	< 170	170	5
10727	4-Chlorophenyl-phenylether	7005-72-3	< 170	170	5
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	< 170	170	5
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10727	Chrysene	218-01-9	150	89	5
10727	Dibenz(a,h)anthracene	53-70-3	< 89	89	5
10727	Dibenzofuran	132-64-9	< 170	170	5
10727	1,2-Dichlorobenzene	95-50-1	< 170	170	5
10727	1,3-Dichlorobenzene	541-73-1	< 170	170	5
10727	1,4-Dichlorobenzene	106-46-7	< 170	170	5
10727	3,3'-Dichlorobenzidine	91-94-1	< 1,700	1,700	5
10727	2,4-Dichlorophenol	120-83-2	< 170	170	5
10727	Diethylphthalate	84-66-2	< 870	870	5
10727	2,4-Dimethylphenol	105-67-9	< 170	170	5
10727	Dimethylphthalate	131-11-3	< 870	870	5
10727	4,6-Dinitro-2-methylphenol	534-52-1	< 2,600	2,600	5
10727	2,4-Dinitrophenol	51-28-5	< 5,200	5,200	5
10727	2,4-Dinitrotoluene	121-14-2	< 870	870	5
10727	2,6-Dinitrotoluene	606-20-2	< 170	170	5
10727	bis(2-Ethylhexyl)phthalate	117-81-7	< 890	890	5
10727	Fluoranthene	206-44-0	160	89	5
10727	Fluorene	86-73-7	< 89	89	5
10727	Hexachlorobenzene	118-74-1	< 89	89	5
10727	Hexachlorobutadiene	87-68-3	< 170	170	5
10727	Hexachlorocyclopentadiene	77-47-4	< 2,600	2,600	5
10727	Hexachloroethane	67-72-1	< 870	870	5
10727	Indeno(1,2,3-cd)pyrene	193-39-5	110	89	5
10727	Isophorone	78-59-1	< 170	170	5
10727	2-Methylnaphthalene	91-57-6	130	89	5
10727	2-Methylphenol	95-48-7	< 170	170	5
10727	4-Methylphenol	106-44-5	< 170	170	5

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Sample Description: SB-49(0-2) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721497
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 10:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

49-0C SDG#: ASX73-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
10727	Naphthalene	91-20-3	92	89	5
10727	2-Nitroaniline	88-74-4	< 170	170	5
10727	3-Nitroaniline	99-09-2	< 870	870	5
10727	4-Nitroaniline	100-01-6	< 870	870	5
10727	Nitrobenzene	98-95-3	< 170	170	5
10727	2-Nitrophenol	88-75-5	< 170	170	5
10727	4-Nitrophenol	100-02-7	< 2,600	2,600	5
10727	N-Nitroso-di-n-propylamine	621-64-7	< 170	170	5
10727	N-Nitrosodiphenylamine	86-30-6	< 170	170	5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10727	Di-n-octylphthalate	117-84-0	< 870	870	5
10727	Pentachlorophenol	87-86-5	< 890	890	5
10727	Phenanthrene	85-01-8	140	89	5
10727	Phenol	108-95-2	< 170	170	5
10727	Pyrene	129-00-0	160	89	5
10727	1,2,4-Trichlorobenzene	120-82-1	< 170	170	5
10727	2,4,5-Trichlorophenol	95-95-4	< 170	170	5
10727	2,4,6-Trichlorophenol	88-06-2	< 170	170	5
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01637	TPH-GRO soil C6-C10	n.a.	< 11	11	251.51
	Reporting limits were raised due to sample foaming.				
GC Miscellaneous	**SW-846 8015B**		**mg/kg**	**mg/kg**	
10941	TPH-DRO soil C10-C28 microwave	n.a.	200	130	10
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	7,720	20.5	1
06944	Antimony	7440-36-0	2.41	2.05	1
06935	Arsenic	7440-38-2	7.40	2.05	1
06946	Barium	7440-39-3	152	0.512	1
06947	Beryllium	7440-41-7	< 0.512	0.512	1
06949	Cadmium	7440-43-9	0.951	0.512	1
01650	Calcium	7440-70-2	59,400	41.0	2
06951	Chromium	7440-47-3	49.7	1.54	1
06952	Cobalt	7440-48-4	6.82	0.512	1
06953	Copper	7440-50-8	102	1.02	1
01654	Iron	7439-89-6	21,600	20.5	1
06955	Lead	7439-92-1	369	1.54	1
01657	Magnesium	7439-95-4	28,600	10.2	1
06958	Manganese	7439-96-5	305	0.512	1
06961	Nickel	7440-02-0	25.0	1.02	1
01662	Potassium	7440-09-7	2,130	51.2	1
06936	Selenium	7782-49-2	< 2.05	2.05	1

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Analysis Report

Sample Description: SB-49(0-2) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721497
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 10:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

49-0C SDG#: ASX73-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	
06966	Silver	7440-22-4	< 0.512	0.512	1
01667	Sodium	7440-23-5	139	102	1
06925	Thallium	7440-28-0	< 3.07	3.07	1
06971	Vanadium	7440-62-2	40.8	0.512	1
06972	Zinc	7440-66-6	173	2.05	1
	SW-846 7471A		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.133	0.105	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	
00111	Moisture	n.a.	6.1	0.50	1

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

General 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
10727	TCL 8270 (microwave)	SW-846 8270C	1	12199SLH026	07/19/2012	03:44	Holly Berry	5
10809	BNA Soil Microwave	SW-846 3546	1	12199SLH026	07/18/2012	11:00	Olivia Arosemena	1
01637	TPH-GRO soil C6-C10	SW-846 8015B modified	1	12200A31A	07/18/2012	20:30	Marie D John	251.51
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201219928191	07/17/2012	08:32	Larry E Bevins	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	122000026A	07/26/2012	10:30	Tracy A Cole	10
10942	Microwave Extraction-DRO soils	SW-846 3546	1	122000026A	07/19/2012	08:25	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06944	Antimony	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06935	Arsenic	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06947	Beryllium	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	122005708003	07/20/2012	18:54	John P Hook	2
06951	Chromium	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06952	Cobalt	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06955	Lead	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	122005708003	07/20/2012	18:30	John P Hook	1

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Analysis Report

Sample Description: SB-49(0-2) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721497
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 10:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

49-0C SDG#: ASX73-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06936	Selenium	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06925	Thallium	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	122005708003	07/20/2012	05:46	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	122005708003	07/20/2012	18:30	John P Hook	1
00159	Mercury	SW-846 7471A	1	122005711002	07/25/2012	14:16	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	122005708003	07/19/2012	09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122005711002	07/19/2012	12:42	Denise K Conners	1
00111	Moisture	SM20 2540 G	1	12200820005A	07/18/2012	17:47	Scott W Freisher	1

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2425 New Holland Pike
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Lancaster, PA 17605-2425
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Analysis Report

Sample Description: SB-49(1.0-2.0) Grab Soil
Amtrak Wilmington

LLI Sample # SW 6721498
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 10:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

49--1 SDG#: ASX73-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	< 24	24	0.99
10237	Benzene	71-43-2	< 6	6	0.99
10237	Bromodichloromethane	75-27-4	< 6	6	0.99
10237	Bromoform	75-25-2	< 6	6	0.99
10237	Bromomethane	74-83-9	< 6	6	0.99
10237	2-Butanone	78-93-3	< 12	12	0.99
10237	Carbon Disulfide	75-15-0	< 6	6	0.99
10237	Carbon Tetrachloride	56-23-5	< 6	6	0.99
10237	Chlorobenzene	108-90-7	< 6	6	0.99
10237	Chloroethane	75-00-3	< 6	6	0.99
10237	Chloroform	67-66-3	< 6	6	0.99
10237	Chloromethane	74-87-3	< 6	6	0.99
10237	Dibromochloromethane	124-48-1	< 6	6	0.99
10237	1,1-Dichloroethane	75-34-3	< 6	6	0.99
10237	1,2-Dichloroethane	107-06-2	< 6	6	0.99
10237	1,1-Dichloroethene	75-35-4	< 6	6	0.99
10237	cis-1,2-Dichloroethene	156-59-2	< 6	6	0.99
10237	trans-1,2-Dichloroethene	156-60-5	< 6	6	0.99
10237	1,2-Dichloropropane	78-87-5	< 6	6	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	< 6	6	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	< 6	6	0.99
10237	Ethylbenzene	100-41-4	< 6	6	0.99
10237	2-Hexanone	591-78-6	< 12	12	0.99
10237	4-Methyl-2-pentanone	108-10-1	< 12	12	0.99
10237	Methylene Chloride	75-09-2	< 6	6	0.99
10237	Styrene	100-42-5	< 6	6	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	< 6	6	0.99
10237	Tetrachloroethene	127-18-4	< 6	6	0.99
10237	Toluene	108-88-3	< 6	6	0.99
10237	1,1,1-Trichloroethane	71-55-6	< 6	6	0.99
10237	1,1,2-Trichloroethane	79-00-5	< 6	6	0.99
10237	Trichloroethene	79-01-6	< 6	6	0.99
10237	Vinyl Chloride	75-01-4	< 6	6	0.99
10237	Xylene (Total)	1330-20-7	< 6	6	0.99

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,1,1-trichloroethane.

Wet Chemistry	**SM20 2540 G**		**%**	**%**	
00111	Moisture	n.a.	16.6	0.50	1

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

General Sample Comments

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

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Analysis Report

Sample Description: SB-49(1.0-2.0) Grab Soil
Amtrak Wilmington

LLI Sample # SW 6721498
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 10:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

49--1 SDG#: ASX73-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	TCL(3.2) by 8260(soil)	SW-846 8260B	1	B122061AA	07/24/2012 15:36	Kerri E Legerlotz	0.99
06172	GC/MS - Field Preserved (DE)	SW-846 5035 modified	1	201219928194	07/13/2012 10:25	Client Supplied	1
00374	GC/MS - Low Level Bulk Prep	SW-846 5035A Modified	1	201219828190	07/16/2012 21:36	Scott W Freisher	n.a.
00374	GC/MS - Low Level Bulk Prep	SW-846 5035A Modified	2	201219828190	07/16/2012 21:36	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201219828190	07/16/2012 21:31	Scott W Freisher	n.a.
00111	Moisture	SM20 2540 G	1	12200820005A	07/18/2012 17:47	Scott W Freisher	1

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Analysis Report

Sample Description: SB-32(0.0-2.0) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721499
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 11:40 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

32--0 SDG#: ASX73-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**	**ug/kg**	
10736	PCB-1016	12674-11-2	< 1,800	1,800	100
10736	PCB-1221	11104-28-2	< 1,800	1,800	100
10736	PCB-1232	11141-16-5	< 1,800	1,800	100
10736	PCB-1242	53469-21-9	< 1,800	1,800	100
10736	PCB-1248	12672-29-6	< 1,800	1,800	100
10736	PCB-1254	11097-69-1	< 1,800	1,800	100
10736	PCB-1260	11096-82-5	6,400	1,800	100
Wet Chemistry	**SM20 2540 G**		**%**	**%**	
00111	Moisture	n.a.	4.9	0.50	1

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

General 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
10736	7 PCBs in Solids	SW-846 8082	1	121990024A	07/26/2012 20:40	Jessica L Miller	100
10497	PCB Microwave Soil Extraction	SW-846 3546	1	121990024A	07/18/2012 07:15	Katheryne V Sponheimer	1
00111	Moisture	SM20 2540 G	1	12200820005A	07/18/2012 17:47	Scott W Freisher	1

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Analysis Report

Sample Description: SB-32(2.0-4.0) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721500
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:05 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

32--2 SDG#: ASX73-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**	**ug/kg**	
10736	PCB-1016	12674-11-2	< 180	180	10
10736	PCB-1221	11104-28-2	< 180	180	10
10736	PCB-1232	11141-16-5	< 180	180	10
10736	PCB-1242	53469-21-9	< 180	180	10
10736	PCB-1248	12672-29-6	< 180	180	10
10736	PCB-1254	11097-69-1	2,100	180	10
10736	PCB-1260	11096-82-5	3,100	180	10
Wet Chemistry	**SM20 2540 G**		**%**	**%**	
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 above is on an as-received basis.

General 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
10736	7 PCBs in Solids	SW-846 8082	1	121990024A	07/20/2012 06:11	Monica M Souders	10
10497	PCB Microwave Soil Extraction	SW-846 3546	1	121990024A	07/18/2012 07:15	Katheryne V Sponheimer	1
00111	Moisture	SM20 2540 G	1	12200820005A	07/18/2012 17:47	Scott W Freisher	1

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Analysis Report

Sample Description: SB-32(4.0-5.4) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721501
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:20 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

32--4 SDG#: ASX73-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**	**ug/kg**	
10736	PCB-1016	12674-11-2	< 19	19	1
10736	PCB-1221	11104-28-2	< 19	19	1
10736	PCB-1232	11141-16-5	< 19	19	1
10736	PCB-1242	53469-21-9	< 19	19	1
10736	PCB-1248	12672-29-6	< 19	19	1
10736	PCB-1254	11097-69-1	< 19	19	1
10736	PCB-1260	11096-82-5	< 19	19	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	
00111	Moisture	n.a.	13.1	0.50	1

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

General 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
10736	7 PCBs in Solids	SW-846 8082	1	121990024A	07/20/2012 06:26	Monica M Souders	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	121990024A	07/18/2012 07:15	Katheryne V Sponheimer	1
00111	Moisture	SM20 2540 G	1	12200820005A	07/18/2012 17:47	Scott W Freisher	1

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Analysis Report

Sample Description: SB-32(1.0-2.0) Grab Soil
Amtrak Wilmington

LLI Sample # SW 6721502
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

32--1 SDG#: ASX73-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	
10237	Acetone	67-64-1	< 19	19	0.92
10237	Benzene	71-43-2	< 5	5	0.92
10237	Bromodichloromethane	75-27-4	< 5	5	0.92
10237	Bromoform	75-25-2	< 5	5	0.92
10237	Bromomethane	74-83-9	< 5	5	0.92
10237	2-Butanone	78-93-3	< 9	9	0.92
10237	Carbon Disulfide	75-15-0	< 5	5	0.92
10237	Carbon Tetrachloride	56-23-5	< 5	5	0.92
10237	Chlorobenzene	108-90-7	< 5	5	0.92
10237	Chloroethane	75-00-3	< 5	5	0.92
10237	Chloroform	67-66-3	< 5	5	0.92
10237	Chloromethane	74-87-3	< 5	5	0.92
10237	Dibromochloromethane	124-48-1	< 5	5	0.92
10237	1,1-Dichloroethane	75-34-3	< 5	5	0.92
10237	1,2-Dichloroethane	107-06-2	< 5	5	0.92
10237	1,1-Dichloroethene	75-35-4	< 5	5	0.92
10237	cis-1,2-Dichloroethene	156-59-2	< 5	5	0.92
10237	trans-1,2-Dichloroethene	156-60-5	< 5	5	0.92
10237	1,2-Dichloropropane	78-87-5	< 5	5	0.92
10237	cis-1,3-Dichloropropene	10061-01-5	< 5	5	0.92
10237	trans-1,3-Dichloropropene	10061-02-6	< 5	5	0.92
10237	Ethylbenzene	100-41-4	< 5	5	0.92
10237	2-Hexanone	591-78-6	< 9	9	0.92
10237	4-Methyl-2-pentanone	108-10-1	< 9	9	0.92
10237	Methylene Chloride	75-09-2	< 5	5	0.92
10237	Styrene	100-42-5	< 5	5	0.92
10237	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	0.92
10237	Tetrachloroethene	127-18-4	< 5	5	0.92
10237	Toluene	108-88-3	< 5	5	0.92
10237	1,1,1-Trichloroethane	71-55-6	< 5	5	0.92
10237	1,1,2-Trichloroethane	79-00-5	< 5	5	0.92
10237	Trichloroethene	79-01-6	< 5	5	0.92
10237	Vinyl Chloride	75-01-4	< 5	5	0.92
10237	Xylene (Total)	1330-20-7	< 5	5	0.92

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,1,1-trichloroethane.

Wet Chemistry	**SM20 2540 G**		**%**	**%**	
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 above is on an as-received basis.

General Sample Comments

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

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Analysis Report

Sample Description: SB-32(1.0-2.0) Grab Soil
Amtrak Wilmington

LLI Sample # SW 6721502
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

32--1 SDG#: ASX73-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10237	TCL(3.2) by 8260(soil)	SW-846 8260B	1	B122061AA	07/24/2012	15:59	Kerri E Legerlotz	0.92
06172	GC/MS - Field Preserved (DE)	SW-846 5035 modified	1	201219928194	07/13/2012	12:25	Client Supplied	1
00374	GC/MS - Low Level Bulk Prep	SW-846 5035A Modified	1	201219828190	07/16/2012	21:36	Scott W Freisher	n.a.
00374	GC/MS - Low Level Bulk Prep	SW-846 5035A Modified	2	201219828190	07/16/2012	21:36	Scott W Freisher	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201219828190	07/16/2012	21:29	Scott W Freisher	n.a.
00111	Moisture	SM20 2540 G	1	12200820005A	07/18/2012	17:47	Scott W Freisher	1

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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Analysis Report

Sample Description: SB-32(0.0-2.0) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721503
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

32-0C SDG#: ASX73-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	
10727	Acenaphthene	83-32-9	< 17	17	1
10727	Acenaphthylene	208-96-8	43	17	1
10727	Anthracene	120-12-7	55	17	1
10727	Benzo(a)anthracene	56-55-3	100	17	1
10727	Benzo(a)pyrene	50-32-8	120	17	1
10727	Benzo(b)fluoranthene	205-99-2	270	17	1
10727	Benzo(g,h,i)perylene	191-24-2	120	17	1
10727	Benzo(k)fluoranthene	207-08-9	130	17	1
10727	4-Bromophenyl-phenylether	101-55-3	< 34	34	1
10727	Butylbenzylphthalate	85-68-7	< 170	170	1
10727	Di-n-butylphthalate	84-74-2	< 170	170	1
10727	Carbazole	86-74-8	< 34	34	1
10727	4-Chloro-3-methylphenol	59-50-7	< 34	34	1
10727	4-Chloroaniline	106-47-8	< 34	34	1
10727	bis(2-Chloroethoxy)methane	111-91-1	< 34	34	1
10727	bis(2-Chloroethyl)ether	111-44-4	< 34	34	1
10727	2-Chloronaphthalene	91-58-7	< 34	34	1
10727	2-Chlorophenol	95-57-8	< 34	34	1
10727	4-Chlorophenyl-phenylether	7005-72-3	< 34	34	1
10727	2,2'-oxybis(1-Chloropropane)	108-60-1	< 34	34	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10727	Chrysene	218-01-9	190	17	1
10727	Dibenz(a,h)anthracene	53-70-3	30	17	1
10727	Dibenzofuran	132-64-9	< 34	34	1
10727	1,2-Dichlorobenzene	95-50-1	< 34	34	1
10727	1,3-Dichlorobenzene	541-73-1	< 34	34	1
10727	1,4-Dichlorobenzene	106-46-7	< 34	34	1
10727	3,3'-Dichlorobenzidine	91-94-1	< 340	340	1
10727	2,4-Dichlorophenol	120-83-2	< 34	34	1
10727	Diethylphthalate	84-66-2	< 170	170	1
10727	2,4-Dimethylphenol	105-67-9	< 34	34	1
10727	Dimethylphthalate	131-11-3	< 170	170	1
10727	4,6-Dinitro-2-methylphenol	534-52-1	< 510	510	1
10727	2,4-Dinitrophenol	51-28-5	< 1,000	1,000	1
10727	2,4-Dinitrotoluene	121-14-2	< 170	170	1
10727	2,6-Dinitrotoluene	606-20-2	< 34	34	1
10727	bis(2-Ethylhexyl)phthalate	117-81-7	< 170	170	1
10727	Fluoranthene	206-44-0	180	17	1
10727	Fluorene	86-73-7	< 17	17	1
10727	Hexachlorobenzene	118-74-1	< 17	17	1
10727	Hexachlorobutadiene	87-68-3	< 34	34	1
10727	Hexachlorocyclopentadiene	77-47-4	< 510	510	1
10727	Hexachloroethane	67-72-1	< 170	170	1
10727	Indeno(1,2,3-cd)pyrene	193-39-5	120	17	1
10727	Isophorone	78-59-1	< 34	34	1
10727	2-Methylnaphthalene	91-57-6	48	17	1
10727	2-Methylphenol	95-48-7	< 34	34	1
10727	4-Methylphenol	106-44-5	< 34	34	1

Lancaster Laboratories, Inc.
2425 New Holland Pike
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Sample Description: SB-32(0.0-2.0) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721503
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

32-0C SDG#: ASX73-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
10727	Naphthalene	91-20-3	34	17	1
10727	2-Nitroaniline	88-74-4	< 34	34	1
10727	3-Nitroaniline	99-09-2	< 170	170	1
10727	4-Nitroaniline	100-01-6	< 170	170	1
10727	Nitrobenzene	98-95-3	< 34	34	1
10727	2-Nitrophenol	88-75-5	< 34	34	1
10727	4-Nitrophenol	100-02-7	< 510	510	1
10727	N-Nitroso-di-n-propylamine	621-64-7	< 34	34	1
10727	N-Nitrosodiphenylamine	86-30-6	< 34	34	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10727	Di-n-octylphthalate	117-84-0	< 170	170	1
10727	Pentachlorophenol	87-86-5	< 170	170	1
10727	Phenanthrene	85-01-8	110	17	1
10727	Phenol	108-95-2	< 34	34	1
10727	Pyrene	129-00-0	170	17	1
10727	1,2,4-Trichlorobenzene	120-82-1	< 34	34	1
10727	2,4,5-Trichlorophenol	95-95-4	< 34	34	1
10727	2,4,6-Trichlorophenol	88-06-2	< 34	34	1
GC Volatiles	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	
01637	TPH-GRO soil C6-C10	n.a.	< 1.1	1.1	25.18
GC Miscellaneous	**SW-846 8015B**		**mg/kg**	**mg/kg**	
10941	TPH-DRO soil C10-C28 microwave	n.a.	26	12	1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300	20.4	1
06944	Antimony	7440-36-0	< 2.04	2.04	1
06935	Arsenic	7440-38-2	3.53	2.04	1
06946	Barium	7440-39-3	176	0.511	1
06947	Beryllium	7440-41-7	< 0.511	0.511	1
06949	Cadmium	7440-43-9	0.717	0.511	1
01650	Calcium	7440-70-2	9,070	20.4	1
06951	Chromium	7440-47-3	34.6	1.53	1
06952	Cobalt	7440-48-4	8.79	0.511	1
06953	Copper	7440-50-8	53.0	1.02	1
01654	Iron	7439-89-6	23,800	20.4	1
06955	Lead	7439-92-1	73.6	1.53	1
01657	Magnesium	7439-95-4	6,060	10.2	1
06958	Manganese	7439-96-5	275	0.511	1
06961	Nickel	7440-02-0	32.7	1.02	1
01662	Potassium	7440-09-7	3,600	51.1	1
06936	Selenium	7782-49-2	< 2.04	2.04	1
06966	Silver	7440-22-4	< 0.511	0.511	1

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Analysis Report

Sample Description: SB-32(0.0-2.0) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721503
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

32-0C SDG#: ASX73-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	144	102	1
06925	Thallium	7440-28-0	< 3.07	3.07	1
06971	Vanadium	7440-62-2	36.2	0.511	1
06972	Zinc	7440-66-6	70.2	2.04	1
	SW-846 7471A		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.111	0.103	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	
00111	Moisture	n.a.	4.1	0.50	1

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

General 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
10727	TCL 8270 (microwave)	SW-846 8270C	1	12199SLH026	07/19/2012 04:52	Holly Berry	1
10809	BNA Soil Microwave	SW-846 3546	1	12199SLH026	07/18/2012 11:00	Olivia Arosemena	1
01637	TPH-GRO soil C6-C10	SW-846 8015B modified	1	12200A31A	07/18/2012 22:30	Marie D John	25.18
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201219928191	07/17/2012 08:29	Larry E Bevins	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	122000026A	07/26/2012 04:02	Tracy A Cole	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	122000026A	07/19/2012 08:25	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06944	Antimony	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06935	Arsenic	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06947	Beryllium	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06952	Cobalt	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06955	Lead	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	122005708003	07/20/2012 19:18	John P Hook	1
01662	Potassium	SW-846 6010B	1	122005708003	07/20/2012 06:11	Tara L Snyder	1

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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Analysis Report

Sample Description: SB-32(0.0-2.0) Composite Soil
Amtrak Wilmington

LLI Sample # SW 6721503
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:25 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

32-0C SDG#: ASX73-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06936	Selenium	SW-846 6010B	1	122005708003	07/20/2012	06:11	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	122005708003	07/20/2012	06:11	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	122005708003	07/20/2012	06:11	Tara L Snyder	1
06925	Thallium	SW-846 6010B	1	122005708003	07/20/2012	06:11	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	122005708003	07/20/2012	06:11	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	122005708003	07/20/2012	19:18	John P Hook	1
00159	Mercury	SW-846 7471A	1	122005711002	07/25/2012	14:26	Damary Valentin	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	122005708003	07/19/2012	09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122005711002	07/19/2012	12:42	Denise K Conners	1
00111	Moisture	SM20 2540 G	1	12200820005A	07/18/2012	17:47	Scott W Freisher	1

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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Analysis Report

Sample Description: EB-07132012 Grab Water
Amtrak Wilmington

LLI Sample # WW 6721504
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:50 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

EB713 SDG#: ASX73-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acetone	67-64-1	< 20	20	1
10903	Benzene	71-43-2	< 5	5	1
10903	Bromodichloromethane	75-27-4	< 5	5	1
10903	Bromoform	75-25-2	< 5	5	1
10903	Bromomethane	74-83-9	< 5	5	1
10903	2-Butanone	78-93-3	< 10	10	1
10903	Carbon Disulfide	75-15-0	< 5	5	1
10903	Carbon Tetrachloride	56-23-5	< 5	5	1
10903	Chlorobenzene	108-90-7	< 5	5	1
10903	Chloroethane	75-00-3	< 5	5	1
10903	Chloroform	67-66-3	< 5	5	1
10903	Chloromethane	74-87-3	< 5	5	1
10903	Dibromochloromethane	124-48-1	< 5	5	1
10903	1,1-Dichloroethane	75-34-3	< 5	5	1
10903	1,2-Dichloroethane	107-06-2	< 5	5	1
10903	1,1-Dichloroethene	75-35-4	< 5	5	1
10903	cis-1,2-Dichloroethene	156-59-2	< 5	5	1
10903	trans-1,2-Dichloroethene	156-60-5	< 5	5	1
10903	1,2-Dichloropropane	78-87-5	< 5	5	1
10903	cis-1,3-Dichloropropene	10061-01-5	< 5	5	1
10903	trans-1,3-Dichloropropene	10061-02-6	< 5	5	1
10903	Ethylbenzene	100-41-4	< 5	5	1
10903	2-Hexanone	591-78-6	< 10	10	1
10903	4-Methyl-2-pentanone	108-10-1	< 10	10	1
10903	Methylene Chloride	75-09-2	< 5	5	1
10903	Styrene	100-42-5	< 5	5	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	1
10903	Tetrachloroethene	127-18-4	< 5	5	1
10903	Toluene	108-88-3	< 5	5	1
10903	1,1,1-Trichloroethane	71-55-6	< 5	5	1
10903	1,1,2-Trichloroethane	79-00-5	< 5	5	1
10903	Trichloroethene	79-01-6	< 5	5	1
10903	Vinyl Chloride	75-01-4	< 5	5	1
10903	Xylene (Total)	1330-20-7	< 5	5	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**	**ug/l**	
04678	Acenaphthene	83-32-9	< 0.5	0.5	1
04678	Acenaphthylene	208-96-8	< 0.5	0.5	1
04678	Anthracene	120-12-7	< 0.5	0.5	1
04678	Benzo(a)anthracene	56-55-3	< 0.5	0.5	1
04678	Benzo(a)pyrene	50-32-8	< 0.5	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	< 0.5	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	< 0.5	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	< 0.5	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	< 0.9	0.9	1
04678	Butylbenzylphthalate	85-68-7	< 5	5	1
04678	Di-n-butylphthalate	84-74-2	< 5	5	1
04678	Carbazole	86-74-8	< 0.9	0.9	1
04678	4-Chloro-3-methylphenol	59-50-7	< 0.9	0.9	1
04678	4-Chloroaniline	106-47-8	< 0.9	0.9	1
04678	bis(2-Chloroethoxy)methane	111-91-1	< 0.9	0.9	1

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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Sample Description: EB-07132012 Grab Water
Amtrak Wilmington

LLI Sample # WW 6721504
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:50 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

EB713 SDG#: ASX73-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l	ug/l	
04678	bis(2-Chloroethyl)ether	111-44-4	< 0.9	0.9	1
04678	2-Chloronaphthalene	91-58-7	< 0.9	0.9	1
04678	2-Chlorophenol	95-57-8	< 0.9	0.9	1
04678	4-Chlorophenyl-phenylether	7005-72-3	< 0.9	0.9	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.9	0.9	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
04678	Chrysene	218-01-9	< 0.5	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	< 0.5	0.5	1
04678	Dibenzofuran	132-64-9	< 0.9	0.9	1
04678	1,2-Dichlorobenzene	95-50-1	< 0.9	0.9	1
04678	1,3-Dichlorobenzene	541-73-1	< 0.9	0.9	1
04678	1,4-Dichlorobenzene	106-46-7	< 0.9	0.9	1
04678	3,3'-Dichlorobenzidine	91-94-1	< 5	5	1
04678	2,4-Dichlorophenol	120-83-2	< 0.9	0.9	1
04678	Diethylphthalate	84-66-2	< 5	5	1
04678	2,4-Dimethylphenol	105-67-9	< 0.9	0.9	1
04678	Dimethylphthalate	131-11-3	< 5	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	< 14	14	1
04678	2,4-Dinitrophenol	51-28-5	< 28	28	1
04678	2,4-Dinitrotoluene	121-14-2	< 5	5	1
04678	2,6-Dinitrotoluene	606-20-2	< 0.9	0.9	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	< 5	5	1
04678	Fluoranthene	206-44-0	< 0.5	0.5	1
04678	Fluorene	86-73-7	< 0.5	0.5	1
04678	Hexachlorobenzene	118-74-1	< 0.5	0.5	1
04678	Hexachlorobutadiene	87-68-3	< 0.9	0.9	1
04678	Hexachlorocyclopentadiene	77-47-4	< 14	14	1
04678	Hexachloroethane	67-72-1	< 5	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	< 0.5	0.5	1
04678	Isophorone	78-59-1	< 0.9	0.9	1
04678	2-Methylnaphthalene	91-57-6	< 0.5	0.5	1
04678	2-Methylphenol	95-48-7	< 0.9	0.9	1
04678	4-Methylphenol	106-44-5	< 0.9	0.9	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
04678	Naphthalene	91-20-3	< 0.5	0.5	1
04678	2-Nitroaniline	88-74-4	< 0.9	0.9	1
04678	3-Nitroaniline	99-09-2	< 0.9	0.9	1
04678	4-Nitroaniline	100-01-6	< 0.9	0.9	1
04678	Nitrobenzene	98-95-3	< 0.9	0.9	1
04678	2-Nitrophenol	88-75-5	< 0.9	0.9	1
04678	4-Nitrophenol	100-02-7	< 28	28	1
04678	N-Nitroso-di-n-propylamine	621-64-7	< 0.9	0.9	1
04678	N-Nitrosodiphenylamine	86-30-6	< 0.9	0.9	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				

Sample Description: EB-07132012 Grab Water
Amtrak Wilmington

LLI Sample # WW 6721504
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:50 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

EB713 SDG#: ASX73-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**	**ug/l**	
04678	Di-n-octylphthalate	117-84-0	< 5	5	1
04678	Pentachlorophenol	87-86-5	< 5	5	1
04678	Phenanthrene	85-01-8	< 0.5	0.5	1
04678	Phenol	108-95-2	< 0.9	0.9	1
04678	Pyrene	129-00-0	< 0.5	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	< 0.9	0.9	1
04678	2,4,5-Trichlorophenol	95-95-4	< 0.9	0.9	1
04678	2,4,6-Trichlorophenol	88-06-2	< 0.9	0.9	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	< 50	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	< 0.54	0.54	1
10227	PCB-1221	11104-28-2	< 0.54	0.54	1
10227	PCB-1232	11141-16-5	< 0.54	0.54	1
10227	PCB-1242	53469-21-9	< 0.54	0.54	1
10227	PCB-1248	12672-29-6	< 0.54	0.54	1
10227	PCB-1254	11097-69-1	< 0.54	0.54	1
10227	PCB-1260	11096-82-5	< 0.54	0.54	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	< 100	100	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	< 0.200	0.200	1
07044	Antimony	7440-36-0	< 0.0200	0.0200	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	1
07046	Barium	7440-39-3	< 0.0050	0.0050	1
07047	Beryllium	7440-41-7	< 0.0050	0.0050	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	1
01750	Calcium	7440-70-2	< 0.200	0.200	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	1
07052	Cobalt	7440-48-4	< 0.0050	0.0050	1
07053	Copper	7440-50-8	0.0250	0.0100	1
01754	Iron	7439-89-6	< 0.200	0.200	1
07055	Lead	7439-92-1	< 0.0150	0.0150	1
01757	Magnesium	7439-95-4	< 0.100	0.100	1
07058	Manganese	7439-96-5	< 0.0050	0.0050	1
07061	Nickel	7440-02-0	< 0.0100	0.0100	1
01762	Potassium	7440-09-7	< 0.500	0.500	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	1
07066	Silver	7440-22-4	< 0.0050	0.0050	1
01767	Sodium	7440-23-5	< 1.00	1.00	1
07022	Thallium	7440-28-0	< 0.0300	0.0300	1
07071	Vanadium	7440-62-2	< 0.0050	0.0050	1
07072	Zinc	7440-66-6	< 0.0200	0.0200	1

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Analysis Report

Sample Description: EB-07132012 Grab Water
Amtrak Wilmington

LLI Sample # WW 6721504
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:50 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

EB713 SDG#: ASX73-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 7470A**	mg/l	mg/l	
00259	Mercury	7439-97-6	< 0.00020	0.00020	1

General 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
10903	TCL (3.2) 8260 Water	SW-846 8260B	1	T122001AA	07/18/2012 11:17	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T122001AA	07/18/2012 11:17	Linda C Pape	1
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	12200WAC026	07/19/2012 12:49	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	12200WAC026	07/18/2012 17:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	12201A20A	07/19/2012 13:29	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12201A20A	07/19/2012 13:29	Marie D John	1
10227	PCBs in Water	SW-846 8082	1	121990013A	07/20/2012 03:29	Monica M Souders	1
11117	PCB Waters Extraction	SW-846 3510C	1	121990013A	07/17/2012 21:30	Karen L Beyer	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	121990015A	07/20/2012 08:21	Michele D Hamilton	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	121990015A	07/18/2012 09:05	Cynthia J Salvatori	1
01743	Aluminum	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07044	Antimony	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07035	Arsenic	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07046	Barium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07047	Beryllium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
01750	Calcium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07052	Cobalt	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07053	Copper	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
01754	Iron	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07055	Lead	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
01757	Magnesium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07058	Manganese	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
01762	Potassium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07066	Silver	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
01767	Sodium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07022	Thallium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
07072	Zinc	SW-846 6010B	1	122001848003	07/19/2012 20:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	122015713002	07/24/2012 13:51	Damary Valentin	1

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Analysis Report

Sample Description: EB-07132012 Grab Water
Amtrak Wilmington

LLI Sample # WW 6721504
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012 12:50 by PM

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

EB713 SDG#: ASX73-11EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	122001848003	07/19/2012 10:50	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	122015713002	07/20/2012 16:50	Nelli S Markaryan	1

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Lancaster, PA 17605-2425
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Analysis Report

Sample Description: Trip Blank-07132012 Water
Amtrak Wilmington

LLI Sample # WW 6721505
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/13/2012

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

TB713 SDG#: ASX73-12TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Acetone	67-64-1	< 20	20	1
10903	Benzene	71-43-2	< 5	5	1
10903	Bromodichloromethane	75-27-4	< 5	5	1
10903	Bromoform	75-25-2	< 5	5	1
10903	Bromomethane	74-83-9	< 5	5	1
10903	2-Butanone	78-93-3	< 10	10	1
10903	Carbon Disulfide	75-15-0	< 5	5	1
10903	Carbon Tetrachloride	56-23-5	< 5	5	1
10903	Chlorobenzene	108-90-7	< 5	5	1
10903	Chloroethane	75-00-3	< 5	5	1
10903	Chloroform	67-66-3	< 5	5	1
10903	Chloromethane	74-87-3	< 5	5	1
10903	Dibromochloromethane	124-48-1	< 5	5	1
10903	1,1-Dichloroethane	75-34-3	< 5	5	1
10903	1,2-Dichloroethane	107-06-2	< 5	5	1
10903	1,1-Dichloroethene	75-35-4	< 5	5	1
10903	cis-1,2-Dichloroethene	156-59-2	< 5	5	1
10903	trans-1,2-Dichloroethene	156-60-5	< 5	5	1
10903	1,2-Dichloropropane	78-87-5	< 5	5	1
10903	cis-1,3-Dichloropropene	10061-01-5	< 5	5	1
10903	trans-1,3-Dichloropropene	10061-02-6	< 5	5	1
10903	Ethylbenzene	100-41-4	< 5	5	1
10903	2-Hexanone	591-78-6	< 10	10	1
10903	4-Methyl-2-pentanone	108-10-1	< 10	10	1
10903	Methylene Chloride	75-09-2	< 5	5	1
10903	Styrene	100-42-5	< 5	5	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	1
10903	Tetrachloroethene	127-18-4	< 5	5	1
10903	Toluene	108-88-3	< 5	5	1
10903	1,1,1-Trichloroethane	71-55-6	< 5	5	1
10903	1,1,2-Trichloroethane	79-00-5	< 5	5	1
10903	Trichloroethene	79-01-6	< 5	5	1
10903	Vinyl Chloride	75-01-4	< 5	5	1
10903	Xylene (Total)	1330-20-7	< 5	5	1

General 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
10903	TCL (3.2) 8260 Water	SW-846 8260B	1	T122001AA	07/18/2012 11:41	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T122001AA	07/18/2012 11:41	Linda C Pape	1

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Analysis Report

Sample Description: Storage Blank Water
Amtrak Wilmington

LLI Sample # WW 6721506
LLI Group # 1322296
Account # 11289

Project Name: Amtrak Wilmington

Collected: 07/16/2012 18:50 by LAB

Submitted: 07/16/2012 15:35
Reported: 07/27/2012 11:50

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

SB713 SDG#: ASX73-13SB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Acetone	67-64-1	< 20	20	1
10903	Benzene	71-43-2	< 5	5	1
10903	Bromodichloromethane	75-27-4	< 5	5	1
10903	Bromoform	75-25-2	< 5	5	1
10903	Bromomethane	74-83-9	< 5	5	1
10903	2-Butanone	78-93-3	< 10	10	1
10903	Carbon Disulfide	75-15-0	< 5	5	1
10903	Carbon Tetrachloride	56-23-5	< 5	5	1
10903	Chlorobenzene	108-90-7	< 5	5	1
10903	Chloroethane	75-00-3	< 5	5	1
10903	Chloroform	67-66-3	< 5	5	1
10903	Chloromethane	74-87-3	< 5	5	1
10903	Dibromochloromethane	124-48-1	< 5	5	1
10903	1,1-Dichloroethane	75-34-3	< 5	5	1
10903	1,2-Dichloroethane	107-06-2	< 5	5	1
10903	1,1-Dichloroethene	75-35-4	< 5	5	1
10903	cis-1,2-Dichloroethene	156-59-2	< 5	5	1
10903	trans-1,2-Dichloroethene	156-60-5	< 5	5	1
10903	1,2-Dichloropropane	78-87-5	< 5	5	1
10903	cis-1,3-Dichloropropene	10061-01-5	< 5	5	1
10903	trans-1,3-Dichloropropene	10061-02-6	< 5	5	1
10903	Ethylbenzene	100-41-4	< 5	5	1
10903	2-Hexanone	591-78-6	< 10	10	1
10903	4-Methyl-2-pentanone	108-10-1	< 10	10	1
10903	Methylene Chloride	75-09-2	< 5	5	1
10903	Styrene	100-42-5	< 5	5	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	1
10903	Tetrachloroethene	127-18-4	< 5	5	1
10903	Toluene	108-88-3	< 5	5	1
10903	1,1,1-Trichloroethane	71-55-6	< 5	5	1
10903	1,1,2-Trichloroethane	79-00-5	< 5	5	1
10903	Trichloroethene	79-01-6	< 5	5	1
10903	Vinyl Chloride	75-01-4	< 5	5	1
10903	Xylene (Total)	1330-20-7	< 5	5	1

General Sample Comments

This sample was collected following the protocol specified by each method listed in the Laboratory Sample Analysis Record.

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
10903	TCL (3.2) 8260 Water	SW-846 8260B	1	T122001AA	07/18/2012 12:05	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T122001AA	07/18/2012 12:05	Linda C Pape	1

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Volatiles by GC/MS Data

Case Narrative/Conformance Summary

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

GC/MS Volatiles

Fraction: Volatiles by GC/MS

TCL (3.2) 8260 Water
8260 Std. Water Master

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
6721498	SB-49(1.0-2.0)		X	0.99	
6721502	SB-32(1.0-2.0)		X	0.92	
6721504	EB-07132012	X		1	Equipment Blank
6721505	Trip Blank-07132012	X		1	Trip Blank
6721506	Storage Blank	X		1	Storage Blank

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): 6721498, 6721502: Analysis: 10237)
The response for acetone in the initial calibration does not meet the acceptance limits for the minimum response factor. The compound is a known poor performer under this method therefore no action is taken.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

LCS/LCSD
(Sample number(s): 6721498, 6721502: Analysis: 10237)
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,1,1-trichloroethane.

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

GC/MS Volatiles

Fraction: Volatiles by GC/MS

MS/MSD

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, laboratory spike data (LCS) are provided.

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

Narrative Reviewed and Approved 8/13/12 (Date) by Kathy J. Fair
Kathy J. Fair
Specialist

Quality Control and Calibration Summary Forms

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Quality Control Reference List
GC/MS Volatiles

CLIENT: Stantec
SDG: ASX73

Fraction: Volatiles by GC/MS

Analysis	Batch Number	Sample Number	Analysis Date
8260 Std. Water Master	T122001AA	VBLKT71	07/18/2012 10:52:00
		LCST71	07/18/2012 09:49:00
		LCDT71	07/18/2012 10:13:00
TCL (3.2) 8260 Water	T122001AA	6721504	07/18/2012 11:17:00
		6721505	07/18/2012 11:41:00
		6721506	07/18/2012 12:05:00
TCL(3.2) by 8260(soil)	B122061AA	VBLKB63	07/24/2012 11:25:00
		LCSB63	07/24/2012 11:56:00
		6721498	07/24/2012 15:36:00
		6721502	07/24/2012 15:59:00

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Quality Control Summary
Method Blank
GC/MS Volatiles
SDG: ASX73
Matrix: SOLID

Fraction: Volatiles by GC/MS

B122061AA / VBLKB63 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Chloromethane	07/24/12	N.D.	ug/kg	2	5
Vinyl Chloride	07/24/12	N.D.	ug/kg	1	5
Bromomethane	07/24/12	N.D.	ug/kg	2	5
Chloroethane	07/24/12	N.D.	ug/kg	2	5
1,1-Dichloroethene	07/24/12	N.D.	ug/kg	1	5
Acetone	07/24/12	N.D.	ug/kg	7	20
Carbon Disulfide	07/24/12	N.D.	ug/kg	1	5
Benzene	07/24/12	N.D.	ug/kg	0.5	5
Bromodichloromethane	07/24/12	N.D.	ug/kg	1	5
2-Butanone	07/24/12	N.D.	ug/kg	4	10
Carbon Tetrachloride	07/24/12	N.D.	ug/kg	1	5
Chloroform	07/24/12	N.D.	ug/kg	1	5
1,1-Dichloroethane	07/24/12	N.D.	ug/kg	1	5
1,2-Dichloroethane	07/24/12	N.D.	ug/kg	1	5
cis-1,2-Dichloroethene	07/24/12	N.D.	ug/kg	1	5
trans-1,2-Dichloroethene	07/24/12	N.D.	ug/kg	1	5
1,2-Dichloropropane	07/24/12	N.D.	ug/kg	1	5
cis-1,3-Dichloropropene	07/24/12	N.D.	ug/kg	1	5
4-Methyl-2-pentanone	07/24/12	N.D.	ug/kg	3	10
Methylene Chloride	07/24/12	N.D.	ug/kg	2	5
Toluene	07/24/12	N.D.	ug/kg	1	5
1,1,1-Trichloroethane	07/24/12	N.D.	ug/kg	1	5
Trichloroethene	07/24/12	N.D.	ug/kg	1	5
Bromoform	07/24/12	N.D.	ug/kg	1	5
Chlorobenzene	07/24/12	N.D.	ug/kg	1	5
Dibromochloromethane	07/24/12	N.D.	ug/kg	1	5
trans-1,3-Dichloropropene	07/24/12	N.D.	ug/kg	1	5
Ethylbenzene	07/24/12	N.D.	ug/kg	1	5
2-Hexanone	07/24/12	N.D.	ug/kg	3	10
Styrene	07/24/12	N.D.	ug/kg	1	5
1,1,2,2-Tetrachloroethane	07/24/12	N.D.	ug/kg	1	5
Tetrachloroethene	07/24/12	N.D.	ug/kg	1	5
1,1,2-Trichloroethane	07/24/12	N.D.	ug/kg	1	5
Xylene (Total)	07/24/12	N.D.	ug/kg	1	5

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Quality Control Summary
Method Blank
GC/MS Volatiles
SDG: ASX73
Matrix: LIQUID

Fraction: Volatiles by GC/MS

T122001AA / VBLKT71 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Chloromethane	07/18/12	N.D.	ug/l	1	5
Vinyl Chloride	07/18/12	N.D.	ug/l	1	5
Bromomethane	07/18/12	N.D.	ug/l	1	5
Chloroethane	07/18/12	N.D.	ug/l	1	5
1,1-Dichloroethene	07/18/12	N.D.	ug/l	0.8	5
Acetone	07/18/12	N.D.	ug/l	6	20
Ethylbenzene	07/18/12	N.D.	ug/l	0.8	5
Carbon Disulfide	07/18/12	N.D.	ug/l	1	5
Methylene Chloride	07/18/12	N.D.	ug/l	2	5
trans-1,2-Dichloroethene	07/18/12	N.D.	ug/l	0.8	5
Styrene	07/18/12	N.D.	ug/l	1	5
Bromoform	07/18/12	N.D.	ug/l	1	5
1,1-Dichloroethane	07/18/12	N.D.	ug/l	1	5
2-Butanone	07/18/12	N.D.	ug/l	3	10
1,1,2,2-Tetrachloroethane	07/18/12	N.D.	ug/l	1	5
cis-1,2-Dichloroethene	07/18/12	N.D.	ug/l	0.8	5
Chloroform	07/18/12	N.D.	ug/l	0.8	5
1,1,1-Trichloroethane	07/18/12	N.D.	ug/l	0.8	5
Benzene	07/18/12	N.D.	ug/l	0.5	5
Carbon Tetrachloride	07/18/12	N.D.	ug/l	1	5
1,2-Dichloroethane	07/18/12	N.D.	ug/l	1	5
Trichloroethene	07/18/12	N.D.	ug/l	1	5
1,2-Dichloropropane	07/18/12	N.D.	ug/l	1	5
Bromodichloromethane	07/18/12	N.D.	ug/l	1	5
cis-1,3-Dichloropropene	07/18/12	N.D.	ug/l	1	5
4-Methyl-2-pentanone	07/18/12	N.D.	ug/l	3	10
Toluene	07/18/12	N.D.	ug/l	0.7	5
trans-1,3-Dichloropropene	07/18/12	N.D.	ug/l	1	5
1,1,2-Trichloroethane	07/18/12	N.D.	ug/l	0.8	5
Tetrachloroethene	07/18/12	N.D.	ug/l	0.8	5
2-Hexanone	07/18/12	N.D.	ug/l	3	10
Dibromochloromethane	07/18/12	N.D.	ug/l	1	5
Chlorobenzene	07/18/12	N.D.	ug/l	0.8	5
Xylene (Total)	07/18/12	N.D.	ug/l	0.8	5

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Quality Control Summary
Surrogates
GC/MS Volatiles
SDG: ASX73
Matrix: SOLID

Fraction: Volatiles by GC/MS

B122061AA	Dibromofluoromethane		1,2-Dichloroethane-d4		Toluene-d8		4-Bromofluorobenzene	
	Spike Added	50 ug/kg	Spike Added	50 ug/kg	Spike Added	50 ug/kg	Spike Added	50 ug/kg
Sample	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits
VBLKB63	98	50 - 141	104	54 - 135	98	52 - 141	97	50 - 131
LCSB63	100	50 - 141	110	54 - 135	100	52 - 141	100	50 - 131
6721498	100	50 - 141	107	54 - 135	105	52 - 141	91	50 - 131
6721502	98	50 - 141	103	54 - 135	99	52 - 141	98	50 - 131

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Quality Control Summary
Surrogates
GC/MS Volatiles
SDG: ASX73
Matrix: LIQUID

Fraction: Volatiles by GC/MS

T122001AA	Dibromofluoromethane		1,2-Dichloroethane-d4		Toluene-d8		4-Bromofluorobenzene	
	Spike Added	50 ug/l	Spike Added	50 ug/l	Spike Added	50 ug/l	Spike Added	50 ug/l
Sample	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits
VBLKT71	98	80 - 116	100	77 - 113	100	80 - 113	99	78 - 113
LCST71	101	80 - 116	101	77 - 113	101	80 - 113	103	78 - 113
LCDT71	100	80 - 116	101	77 - 113	101	80 - 113	103	78 - 113
6721504	101	80 - 116	101	77 - 113	99	80 - 113	100	78 - 113
6721505	104	80 - 116	100	77 - 113	99	80 - 113	101	78 - 113
6721506	102	80 - 116	101	77 - 113	100	80 - 113	100	78 - 113

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

SDG: ASX73
Matrix: SOLID

GC/MS Volatiles

Fraction: Volatiles by GC/MS

LCS: LCSB63	Batch: **B122061AA** (Sample number(s): 6721498, 6721502)							
Analyte	**Spike Added ug/kg**	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Chloromethane	20	16.51		83		56-120		
Vinyl Chloride	20	17.56		88		53-120		
Bromomethane	20	14.92		75		32-162		
Chloroethane	20	15		75		37-154		
1,1-Dichloroethene	20	19		95		73-129		
Acetone	150	144.87		97		32-209		
Carbon Disulfide	20	16.81		84		67-122		
1,1,1-Trichloroethane	20	13.04		65 *		71-125		
1,1-Dichloroethane	20	18.6		93		80-120		
1,2-Dichloroethane	20	17.77		89		71-129		
1,2-Dichloropropane	20	18.17		91		77-120		
2-Butanone	150	138.36		92		46-153		
4-Methyl-2-pentanone	100	90.39		90		61-134		
Benzene	20	18.02		90		80-120		
Bromodichloromethane	20	15.77		79		78-120		
Carbon Tetrachloride	20	17.16		86		69-122		
Chloroform	20	17		85		80-120		
cis-1,2-Dichloroethene	20	18.52		93		80-120		
cis-1,3-Dichloropropene	20	17.65		88		74-120		
Methylene Chloride	20	17.25		86		76-124		
Toluene	20	16.99		85		80-120		
trans-1,2-Dichloroethene	20	18.92		95		79-120		
Trichloroethene	20	17.44		87		80-120		
1,1,2,2-Tetrachloroethane	20	16.61		83		71-123		
1,1,2-Trichloroethane	20	17.55		88		80-120		
2-Hexanone	100	91.34		91		45-155		
Bromoform	20	14.26		71		70-120		
Chlorobenzene	20	17.57		88		80-120		
Dibromochloromethane	20	16.08		80		77-120		
Ethylbenzene	20	17.1		86		80-120		
Styrene	20	16.35		82		76-120		
Tetrachloroethene	20	17.39		87		78-126		
trans-1,3-Dichloropropene	20	15.67		78		77-120		
Xylene (Total)	60	52		87		80-120		

8/13/2012 5:56:14 AM

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

SDG: ASX73
Matrix: LIQUID

GC/MS Volatiles

Fraction: Volatiles by GC/MS

LCS: LCST71 LCSD: LCDT71	Batch: T122001AA (Sample number(s): 6721504-6721506)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Chloromethane	20	15.42	15.49	77	77	60-129	0	30
Vinyl Chloride	20	16.87	16.68	84	83	56-123	1	30
Bromomethane	20	15.87	15.42	79	77	44-120	3	30
Chloroethane	20	15.85	15.4	79	77	49-129	3	30
1,1-Dichloroethene	20	20.81	20.65	104	103	80-120	1	30
Acetone	150	184.87	178.27	123	119	38-212	4	30
Ethylbenzene	20	20.34	20.15	102	101	79-120	1	30
Carbon Disulfide	20	18.27	18.17	91	91	62-125	1	30
Methylene Chloride	20	19.49	19.58	97	98	80-126	0	30
Styrene	20	20.43	20.26	102	101	77-120	1	30
trans-1,2-Dichloroethene	20	21.25	21.1	106	106	80-120	1	30
1,1-Dichloroethane	20	21.02	21.1	105	106	79-120	0	30
Bromoform	20	17.12	17.4	86	87	61-120	2	30
1,1,2,2-Tetrachloroethane	20	19.1	19.35	95	97	75-123	1	30
2-Butanone	150	138.43	140.36	92	94	53-155	1	30
cis-1,2-Dichloroethene	20	20.94	21.24	105	106	80-120	1	30
Chloroform	20	19.38	19.11	97	96	77-122	1	30
1,1,1-Trichloroethane	20	22.34	22.43	112	112	70-121	0	30
1,2-Dichloroethane	20	21.52	21.46	108	107	64-130	0	30
Benzene	20	19.62	19.79	98	99	77-121	1	30
Carbon Tetrachloride	20	20.99	21.34	105	107	67-122	2	30
Trichloroethene	20	20.97	20.62	105	103	80-120	2	30
1,2-Dichloropropane	20	20.48	20.94	102	105	80-120	2	30
Bromodichloromethane	20	19.04	19.08	95	95	73-120	0	30
cis-1,3-Dichloropropene	20	21.21	21.45	106	107	78-120	1	30
4-Methyl-2-pentanone	100	84.69	86.53	85	87	58-133	2	30
Toluene	20	20.43	20.11	102	101	79-120	2	30
trans-1,3-Dichloropropene	20	19.74	19.7	99	99	79-120	0	30
1,1,2-Trichloroethane	20	20.61	20.46	103	102	80-120	1	30
Tetrachloroethene	20	21.31	20.78	107	104	79-120	3	30
2-Hexanone	100	81.82	82.53	82	83	53-139	1	30
Dibromochloromethane	20	18.94	19.71	95	99	72-120	4	30
Chlorobenzene	20	20.63	20.38	103	102	80-120	1	30
Xylene (Total)	60	61.76	60.92	103	102	77-120	1	30

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:

Lab Code: LANCAS Case No.: SAS No.: SDG No.: ASX73

Lab File ID: bl19t01.d BFB Injection Date: 07/19/12

Instrument ID: HP09953 BFB Injection Time: 09:20

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.86
75	30.0 - 60.0% of mass 95	48.82
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.09
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	85.82
175	5.0 - 9.0% of mass 174	6.61 (7.71)1
176	Greater than 95.0%, but less than 101.0% of mass 174	86.36 (100.63)1
177	5.0 - 9.0% of mass 176	6.07 (7.03)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD300	bl19i01.d	07/19/12	09:42
02	VSTD100	bl19i02.d	07/19/12	10:17
03	VSTD50	bl19i03.d	07/19/12	11:01
04	VSTD20	bl19i04.d	07/19/12	11:23
05	VSTD10	bl19i05.d	07/19/12	11:49
06	VSTD4	bl19i06.d	07/19/12	12:14
07	MDL001 - MDL001	bl19m01.d	07/19/12	12:37
08	LGBICV	bl19v01.d	07/19/12	13:01

FORM V VOA

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:

Lab Code: LANCAS Case No.: SAS No.: SDG No.: ASX73

Lab File ID: bl24t01.d BFB Injection Date: 07/24/12

Instrument ID: HP09953 BFB Injection Time: 09:54

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.37
75	30.0 - 60.0% of mass 95	46.34
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.71
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	87.86
175	5.0 - 9.0% of mass 174	6.47 (7.36)1
176	Greater than 95.0%, but less than 101.0% of mass 174	85.22 (97.00)1
177	5.0 - 9.0% of mass 176	5.56 (6.53)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	bl24c01.d	07/24/12	10:18
02	VSTD50	bl24c02.d	07/24/12	10:41
03	VBLKB63	bl24b02.d	07/24/12	11:25
04	LCSB63	bl24l01.d	07/24/12	11:56
05	LCSB64	bl24l03.d	07/24/12	13:07
06	LCDB64	bl24l04.d	07/24/12	14:20
07	6721498	bl24s01.d	07/24/12	15:36
08	6721502	bl24s02.d	07/24/12	15:59
09	6727926	bl24s03.d	07/24/12	16:22
10	6727927	bl24s04.d	07/24/12	16:55
11	6727928	bl24s05.d	07/24/12	17:17
12	6722441RE	bl24s06.d	07/24/12	17:40
13	6723751	bl24s07.d	07/24/12	18:02
14	6723752	bl24s08.d	07/24/12	18:25
15	6723749	bl24s10.d	07/24/12	19:10
16	6723753	bl24s11.d	07/24/12	19:32
17	6723696MS	bl24s15.d	07/24/12	20:43
18	6723697MSD	bl24s16.d	07/24/12	21:05
19	6723700	bl24s18.d	07/24/12	21:51
20	VSTD050	bl24s23.d	07/24/12	22:13

FORM V VOA

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:

Lab Code: LANCAS Case No.: SAS No.: SDG No.: ASX73

Lab File ID: ty17t03.d BFB Injection Date: 05/17/12

Instrument ID: SH08363 BFB Injection Time: 13:06

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.64
75	30.0 - 60.0% of mass 95	40.82
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.64
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	80.48
175	5.0 - 9.0% of mass 174	5.86 (7.29)1
176	Greater than 95.0%, but less than 101.0% of mass 174	78.71 (97.80)1
177	5.0 - 9.0% of mass 176	4.96 (6.30)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD300	ty17i01.d	05/17/12	13:35
02	VSTD100	ty17i02.d	05/17/12	13:59
03	VSTD50	ty17i03.d	05/17/12	14:23
04	VSTD20	ty17i04.d	05/17/12	14:47
05	VSTD10	ty17i05.d	05/17/12	15:11
06	VSTD4	ty17i06.d	05/17/12	15:34
07	VSTD1	ty17i07.d	05/17/12	15:58
08	0.5PPBMDL - 0.5PPBMDL	ty17m01.d	05/17/12	16:22

FORM V VOA

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

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

Lab File ID: ty18t01.d BFB Injection Date: 05/18/12

Instrument ID: SH08363 BFB Injection Time: 11:10

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.90
75	30.0 - 60.0% of mass 95	37.68
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.64
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	87.72
175	5.0 - 9.0% of mass 174	6.74 (7.69)1
176	Greater than 95.0%, but less than 101.0% of mass 174	84.04 (95.81)1
177	5.0 - 9.0% of mass 176	5.46 (6.50)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	ty18c01.d	05/18/12	11:47
02	VBLKT82	ty18b01.d	05/18/12	12:12
03	LCST82	ty18s01.d	05/18/12	12:36

FORM V VOA

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:

Lab Code: LANCAS Case No.: SAS No.: SDG No.: ASX73

Lab File ID: tl18t03.d BFB Injection Date: 07/18/12

Instrument ID: SH08363 BFB Injection Time: 08:33

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.31
75	30.0 - 60.0% of mass 95	41.16
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.75
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	76.95
175	5.0 - 9.0% of mass 174	5.58 (7.24)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.54 (96.86)1
177	5.0 - 9.0% of mass 176	4.69 (6.29)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	tl18c01.d	07/18/12	09:01
02	LCST71	tl18s01.d	07/18/12	09:49
03	LCDT71	tl18s02.d	07/18/12	10:13
04	VBLKT71	tl18s03.d	07/18/12	10:52
05	6721504	tl18s04.d	07/18/12	11:17
06	6721505	tl18s05.d	07/18/12	11:41
07	6721506	tl18s06.d	07/18/12	12:05
08	6722708	tl18s07.d	07/18/12	12:29
09	6722709	tl18s08.d	07/18/12	12:53
10	6722557	tl18s09.d	07/18/12	13:17
11	6722558	tl18s10.d	07/18/12	13:41
12	6722735	tl18s11.d	07/18/12	14:05
13	6722736	tl18s12.d	07/18/12	14:29
14	6722732	tl18s13.d	07/18/12	14:54
15	6722732MS	tl18s14.d	07/18/12	15:18
16	6722733	tl18s15.d	07/18/12	15:41
17	6722734	tl18s16.d	07/18/12	16:39
18	6722734DL	tl18s17.d	07/18/12	17:03
19	6722706	tl18s18.d	07/18/12	17:27
20	6722706DL	tl18s19.d	07/18/12	17:51
21	6722191	tl18s21.d	07/18/12	18:39
22	6712889	tl18s22.d	07/18/12	19:05

FORM V VOA

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:

Lab Code: LANCAS Case No.: SAS No.: SDG No.: ASX73

Lab File ID: tl18t03.d BFB Injection Date: 07/18/12

Instrument ID: SH08363 BFB Injection Time: 08:33

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.31
75	30.0 - 60.0% of mass 95	41.16
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.75
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	76.95
175	5.0 - 9.0% of mass 174	5.58 (7.24)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.54 (96.86)1
177	5.0 - 9.0% of mass 176	4.69 (6.29)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
23	6712889DL	tl18s23.d	07/18/12	19:29
24	VSTD50	tl18s25.d	07/18/12	20:21

FORM V VOA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09953 Calibration Date(s): 07/19/12 07/19/12

Heated Purge: (Y/N) Y Calibration Times: 09:42 12:14

Matrix: (soil/water) SOIL Level: (low/med) LOW GC Column: DB-624 ID: .18

LAB FILE ID: RRF 4 = bl19i06.d RRF 10= bl19i05.d RRF 20= bl19i04.d
RRF 50= bl19i03.d RRF100= bl19i02.d RRF300= bl19i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Dichlorodifluoromethane	0.6009	0.5437	0.4971	0.4384	0.4624	0.4024		0.4908	15	AVG	
Chloromethane	#0.5508	0.5313	0.5143	0.4522	0.4807	0.4340		0.4939	9	AVG	#
Vinyl Chloride	*0.4755	0.4670	0.4534	0.3958	0.4213	0.3775		0.4317	9	AVG	*
Bromomethane	0.3309	0.3237	0.2999	0.2648	0.2720	0.2280		0.2865	14	AVG	
Chloroethane	0.2598	0.2548	0.2432	0.2133	0.2202	0.1855		0.2295	12	AVG	
Dichlorofluoromethane	0.6883	0.5753	0.6029	0.5364	0.5701	0.5067		0.5799	11	AVG	
Trichlorofluoromethane	0.5357	0.5300	0.5144	0.4593	0.4807	0.4142		0.4890	10	AVG	
Freon 123a	0.4464	0.3614	0.3609	0.3292	0.3447	0.3069		0.3582	13	AVG	
Acrolein	2.8259	2.6148	2.7505	2.8363	2.7573	2.3214		2.6844	7	AVG	
1,1-Dichloroethene	*0.2685	0.2322	0.2392	0.2339	0.2393	0.2138		0.2378	7	AVG	*
Freon 113	0.2876	0.2626	0.2625	0.2641	0.2716	0.2384		0.2645	6	AVG	
Acetone	0.0832	0.0730	0.0633	0.0619	0.0687	0.0670		0.0695	11	AVG	
Methyl Iodide	0.5241	0.4830	0.4898	0.4796	0.4999	0.4527		0.4882	5	AVG	
2-Propanol	1.1063	0.9875	1.0583	1.0842	1.0804	0.9464		1.0439	6	AVG	
Carbon Disulfide	0.8053	0.7261	0.7551	0.7622	0.7938	0.7272		0.7616	4	AVG	
Allyl Chloride	0.5178	0.4823	0.4888	0.4324	0.4614	0.4181		0.4668	8	AVG	
Methyl Acetate	0.2200	0.1879	0.1626	0.1505	0.1684	0.1705		0.1766	14	AVG	
Methylene Chloride	0.3941	0.3146	0.2965	0.2831	0.2889	0.2681		0.3075	15	AVG	
t-Butyl Alcohol	1.5424	1.6267	1.6857	1.8412	1.8254	1.6628		1.6974	7	AVG	
Acrylonitrile	6.8997	5.8963	5.8049	6.1972	5.6153	4.8187		5.8720	12	AVG	
trans-1,2-Dichloroethene	0.3205	0.2932	0.2876	0.2984	0.2983	0.2687		0.2944	6	AVG	
Methyl Tertiary Butyl Ether	0.8100	0.8228	0.7613	0.7674	0.8255	0.7970		0.7973	3	AVG	
n-Hexane	0.5086	0.4322	0.4235	0.4343	0.4454	0.3933		0.4395	9	AVG	
1,1-Dichloroethane	#0.5923	0.5373	0.5415	0.5367	0.5649	0.5160		0.5481	5	AVG	#
2-Chloro-1,3-Butadiene	0.5061	0.4612	0.4686	0.4682	0.4864	0.4419		0.4721	5	AVG	
di-Isopropyl Ether	1.1089	1.0514	1.0237	1.0156	1.0879	1.0041		1.0486	4	AVG	
Ethyl t-Butyl Ether	0.9789	0.9472	0.8987	0.9000	0.9835	0.9299		0.9397	4	AVG	
cis-1,2-Dichloroethene	0.3566	0.3335	0.3288	0.3269	0.3474	0.3194		0.3354	4	AVG	
1,2-Dichloroethene (total)	0.3385	0.3133	0.3082	0.3126	0.3228	0.2941		0.3149	5	AVG	
2,2-Dichloropropane	0.4745	0.4318	0.4395	0.4376	0.4623	0.4248		0.4451	4	AVG	
2-Butanone	0.1268	0.1196	0.1122	0.1145	0.1297	0.1321		0.1225	7	AVG	
Propionitrile	2.0133	2.0681	2.1361	2.1730	2.1816	1.9568		2.0882	4	AVG	
Methacrylonitrile	5.8194	5.9613	6.3584	6.3441	6.4025	5.6867		6.0954	5	AVG	
Bromochloromethane	0.1658	0.1629	0.1607	0.1540	0.1630	0.1581		0.1608	3	AVG	
Tetrahydrofuran	1.9527	1.8926	1.8522	1.9236	1.9636	1.7659		1.8918	4	AVG	
Chloroform	*0.6232	0.5602	0.5490	0.5376	0.5670	0.5217		0.5598	6	AVG	*
1,1,1-Trichloroethane	0.7922	0.6425	0.6630	0.5646	0.5943	0.5540		0.6351	14	AVG	
Cyclohexane	0.6341	0.5394	0.5403	0.5467	0.5640	0.5103		0.5558	8	AVG	
Cyclohexane(mz69)	0.1811	0.1598	0.1626	0.1662	0.1717	0.1562		0.1663	5	AVG	
Cyclohexane(mz84)	0.4962	0.4394	0.4425	0.4477	0.4684	0.4219		0.4527	6	AVG	
1,1-Dichloropropene	0.4403	0.4053	0.4153	0.4170	0.4344	0.3993		0.4186	4	AVG	
Carbon Tetrachloride	0.4228	0.3879	0.3964	0.4104	0.4364	0.4081		0.4103	4	AVG	
Benzene	1.3327	1.2409	1.2351	1.2369	1.3033	1.1905		1.2566	4	AVG	
Isobutyl Alcohol	0.4985	0.4960	0.5443	0.5664	0.5823	0.5503		0.5396	7	AVG	
1,2-Dichloroethane	0.3988	0.3941	0.3758	0.3774	0.4040	0.3818		0.3887	3	AVG	
1,2-Dichloroethane(mz98)	0.0383	0.0356	0.0347	0.0346	0.0379	0.0366		0.0363	4	AVG	
t-Amyl Methyl Ether	0.8558	0.8361	0.7918	0.7915	0.8671	0.8405		0.8304	4	AVG	
n-Heptane	0.5844	0.5032	0.4904	0.5080	0.5247	0.4694		0.5133	8	AVG	
n-Butanol	0.3741	0.3819	0.4322	0.4620	0.4874	0.4593		0.4328	11	AVG	
Trichloroethene	0.3525	0.3255	0.3255	0.3272	0.3444	0.3185		0.3323	4	AVG	
Methylcyclohexane	0.6100	0.5548	0.5857	0.5559	0.5633	0.5325		0.5670	5	AVG	
Methylcyclohexane(mz98)	0.2688	0.2532	0.2627	0.2482	0.2545	0.2389		0.2544	4	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

FORM VI VOA

ASX73 0059

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09953 Calibration Date(s): 07/19/12 07/19/12

Heated Purge: (Y/N) Y Calibration Times: 09:42 12:14

Matrix: (soil/water) SOIL Level: (low/med) LOW GC Column: DB-624 ID: .18

LAB FILE ID: RRF 4 = bl19i06.d RRF 10= bl19i05.d RRF 20= bl19i04.d
RRF 50= bl19i03.d RRF100= bl19i02.d RRF300= bl19i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
1,2-Dichloropropane	*0.3274	0.3214	0.3163	0.3208	0.3427	0.3231		0.3253	3	AVG	*
Dibromomethane	0.1826	0.1842	0.1771	0.1782	0.1955	0.1909		0.1848	4	AVG	
1,4-Dioxane	0.1445	0.1495	0.1753	0.1836	0.1828	0.1660		0.1669	10	AVG	
Methyl Methacrylate	0.1858	0.1839	0.1718	0.1777	0.2018	0.2093		0.1884	8	AVG	
Bromodichloromethane	0.3685	0.3679	0.3644	0.3826	0.4172	0.4035		0.3840	6	AVG	
2-Nitropropane	3.5198	3.1568	3.3431	3.8433	4.1413	3.8442		3.6414	10	AVG	
2-Chloroethyl Vinyl Ether	0.1442	0.1455	0.1449	0.1487	0.1735	0.1766		0.1556	10	AVG	
cis-1,3-Dichloropropene	0.4352	0.4302	0.4316	0.4574	0.5032	0.4815		0.4565	7	AVG	
4-Methyl-2-Pentanone	0.2383	0.2422	0.2487	0.2569	0.3000	0.3002		0.2644	11	AVG	
Toluene	*1.2350	1.1505	1.1466	1.1559	1.1866	1.0567		1.1552	5	AVG	*
trans-1,3-Dichloropropene	0.5147	0.5335	0.5378	0.5792	0.6260	0.6019		0.5655	8	AVG	
Ethyl Methacrylate	0.4509	0.4867	0.4650	0.4954	0.5470	0.5390		0.4973	8	AVG	
1,1,2-Trichloroethane	0.3504	0.3456	0.3368	0.3475	0.3668	0.3494		0.3494	3	AVG	
Tetrachloroethene	0.5792	0.5350	0.5410	0.5490	0.5586	0.4998		0.5438	5	AVG	
1,3-Dichloropropane	0.5916	0.5852	0.5626	0.5835	0.6205	0.5889		0.5887	3	AVG	
2-Hexanone	0.1073	0.1199	0.1184	0.1253	0.1477	0.1498		0.1281	13	AVG	
Dibromochloromethane	0.3522	0.3740	0.3727	0.4084	0.4426	0.4334		0.3972	9	AVG	
1,2-Dibromoethane	0.3459	0.3583	0.3426	0.3543	0.3822	0.3716		0.3591	4	AVG	
Chlorobenzene	#1.3235	1.2597	1.2402	1.2746	1.3080	1.1572		1.2605	5	AVG	#
1,1,1,2-Tetrachloroethane	0.4236	0.4338	0.4413	0.4698	0.4839	0.4487		0.4502	5	AVG	
Ethylbenzene	*2.2702	2.1667	2.1724	2.2358	2.2774	1.9414		2.1773	6	AVG	*
m+p-Xylene	0.9281	0.8713	0.8673	0.8900	0.8933	0.7398		0.8650	8	AVG	
Xylene (Total)	0.9219	0.8712	0.8657	0.8903	0.8957	0.7539		0.8665	7	AVG	
o-Xylene	0.9095	0.8712	0.8625	0.8908	0.9003	0.7822		0.8694	5	AVG	
Styrene	1.3998	1.4089	1.3861	1.4569	1.4913	1.2900		1.4055	5	AVG	
Bromoform	#0.2256	0.2429	0.2415	0.2805	0.3147	0.3249		0.2717	15	AVG	#
Isopropylbenzene	2.3971	2.2908	2.3013	2.3590	2.3506	1.9133		2.2687	8	AVG	
Cyclohexanone	0.6561	0.6318	0.6768	0.7103	0.7247	0.6827		0.6804	5	AVG	$$
Bromobenzene	1.0477	1.0169	0.9836	1.0211	1.0775	1.0136		1.0267	3	AVG	
1,1,2,2-Tetrachloroethane	#0.7920	0.8045	0.7491	0.7896	0.8852	0.8947		0.8192	7	AVG	#
1,2,3-Trichloropropane	0.2190	0.2286	0.2084	0.2220	0.2461	0.2513		0.2292	7	AVG	
trans-1,4-Dichloro-2-Butene	0.1921	0.1994	0.2024	0.2104	0.2443	0.2460		0.2158	11	AVG	
n-Propylbenzene	4.7356	4.6005	4.4871	4.6859	4.7458	3.7702		4.5042	8	AVG	
2-Chlorotoluene	1.0024	0.9507	0.9294	0.9813	1.0062	0.9453		0.9692	3	AVG	
1,3,5-Trimethylbenzene	3.4638	3.3586	3.3064	3.4569	3.5389	2.8836		3.3347	7	AVG	
4-Chlorotoluene	1.0159	1.0099	0.9596	1.0011	1.0266	0.8702		0.9805	6	AVG	
tert-Butylbenzene	0.7743	0.7699	0.7615	0.8010	0.8083	0.7179		0.7721	4	AVG	
Pentachloroethane	0.5448	0.5784	0.5961	0.6059	0.6623	0.6436		0.6052	7	AVG	
1,2,4-Trimethylbenzene	3.4672	3.4316	3.3593	3.5238	3.6289	3.0773		3.4147	6	AVG	
sec-Butylbenzene	4.5158	4.2951	4.2695	4.4781	4.5008	3.5670		4.2710	8	AVG	
1,3-Dichlorobenzene	1.9624	1.9414	1.8962	1.9750	2.0562	1.8683		1.9499	3	AVG	
p-Isopropyltoluene	3.8969	3.7838	3.7674	3.9599	3.9793	3.1820		3.7615	8	AVG	
1,4-Dichlorobenzene	2.2343	2.0846	1.9877	2.0429	2.0910	1.8853		2.0543	6	AVG	
1,2,3-Trimethylbenzene	3.5835	3.5523	3.4778	3.3931	3.5123	3.0464		3.4276	6	AVG	
Benzyl Chloride	1.1969	1.3352	1.3641	1.5741	1.8159	1.8839		1.5283	18	1STDEG	
1,2-Dichlorobenzene	1.9396	1.9240	1.8294	1.8845	1.9474	1.6124		1.8562	7	AVG	
n-Butylbenzene	1.8951	1.8234	1.8635	1.9477	1.9614	1.6720		1.8605	6	AVG	
1,3-Diethylbenzene	2.2361	2.2006	2.2761	2.2262	2.2568	2.0727		2.2114	3	AVG	
1,4-Diethylbenzene	2.4067	2.3199	2.3885	2.3228	2.3252	2.0420		2.3009	6	AVG	
1,2-Diethylbenzene	2.0643	1.9249	1.9598	1.8903	1.9256	1.7715		1.9227	5	AVG	
1,2-Dibromo-3-Chloropropane	0.1272	0.1400	0.1316	0.1449	0.1657	0.1771		0.1478	13	AVG	
1,3,5-Trichlorobenzene	1.8192	1.7246	1.7050	1.7648	1.7785	1.5455		1.7229	6	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

$$1ppb std (bl19m01) used for low point of this compound

FORM VI VOA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09953 Calibration Date(s): 07/19/12 07/19/12

Heated Purge: (Y/N) Y Calibration Times: 09:42 12:14

Matrix: (soil/water) SOIL Level: (low/med) LOW GC Column: DB-624 ID: .18

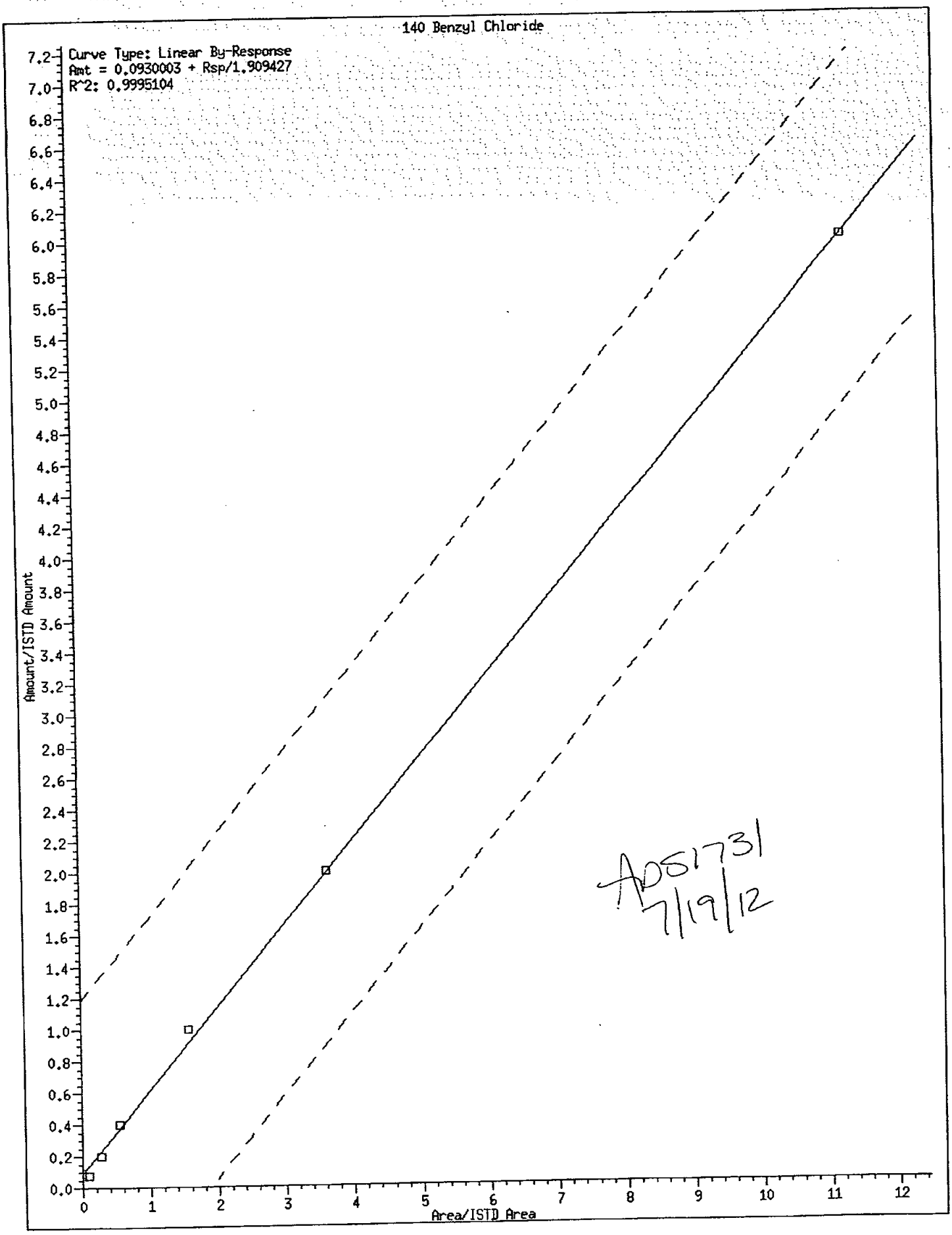
LAB FILE ID: RRF 4 = bl19i06.d RRF 10= bl19i05.d RRF 20= bl19i04.d
RRF 50= bl19i03.d RRF100= bl19i02.d RRF300= bl19i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
1,2,4-Trichlorobenzene	1.5388	1.5315	1.4942	1.5455	1.5575	1.3626		1.5050	5	AVG
Hexachlorobutadiene	0.9119	0.8407	0.8582	0.9100	0.8749	0.7808		0.8627	6	AVG
Naphthalene	3.1438	3.1401	2.9999	3.1050	3.2476	2.7960		3.0721	5	AVG
1,2,3-Trichlorobenzene	1.4925	1.4481	1.4277	1.4339	1.4475	1.2480		1.4163	6	AVG
2-Methylnaphthalene	1.9188	1.8921	1.8706	1.8319	1.9222	1.6513		1.8478	6	AVG
Dibromofluoromethane	0.2412	0.2377	0.2358	0.2362	0.2354	0.2376		0.2373	1	AVG
Dibromofluoromethane(mz111)	0.2429	0.2422	0.2414	0.2400	0.2411	0.2441		0.2419	1	AVG
1,2-Dichloroethane-d4	0.0499	0.0509	0.0494	0.0487	0.0504	0.0509		0.0500	2	AVG
1,2-Dichloroethane-d4(mz104)	0.0318	0.0323	0.0311	0.0322	0.0326	0.0338		0.0323	3	AVG
1,2-Dichloroethane-d4(mz65)	0.2450	0.2442	0.2421	0.2387	0.2389	0.2435		0.2421	1	AVG
Toluene-d8	1.3504	1.3493	1.3624	1.3623	1.3408	1.3212		1.3477	1	AVG
Toluene-d8(mz100)	0.8842	0.8842	0.8899	0.8958	0.8804	0.8846		0.8865	1	AVG
4-Bromofluorobenzene	0.4947	0.4863	0.4914	0.4885	0.4890	0.4960		0.4910	1	AVG
4-Bromofluorobenzene(mz174)	0.4646	0.4572	0.4558	0.4601	0.4526	0.4578		0.4580	1	AVG

Average %RSD 7

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

FORM VI VOA



AD51731
7/19/12

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem2/HP09953.i/12jul19a.b/bl19i01.d VSTD300
/chem2/HP09953.i/12jul19a.b/bl19i02.d VSTD100
/chem2/HP09953.i/12jul19a.b/bl19i03.d VSTD050
/chem2/HP09953.i/12jul19a.b/bl19i04.d VSTD020
/chem2/HP09953.i/12jul19a.b/bl19i05.d VSTD010
/chem2/HP09953.i/12jul19a.b/bl19i06.d VSTD004

Area Summary

File ID:

Internal Standard Name	bl19i01.d	bl19i02.d	bl19i03.d	bl19i04.d	bl19i05.d	bl19i06.d	Avg. Area	%RSD	In Spec
t-Butyl Alcohol-d10	113825	95636	84613	84792	92003	91154	93670	11	Yes
Fluorobenzene	1150644	1101613	1082601	1053561	1061198	1031874	1080248	4	Yes
Chlorobenzene-d5	854523	796887	757818	733809	743772	724692	768584	6	Yes
1,4-Dichlorobenzene-d4	472595	454984	444149	435826	431286	430533	444896	4	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

File ID:

Internal Standard Name	bl19i01.d	bl19i02.d	bl19i03.d	bl19i04.d	bl19i05.d	bl19i06.d	Avg. RT
t-Butyl Alcohol-d10	2.228	2.222	2.210	2.216	2.222	2.216	2.219
Fluorobenzene	4.363	4.364	4.357	4.357	4.363	4.358	4.360
Chlorobenzene-d5	7.545	7.545	7.545	7.545	7.545	7.545	7.545
1,4-Dichlorobenzene-d4	9.528	9.522	9.522	9.522	9.528	9.529	9.525

* indicates the retention time is greater than 30 seconds from the average RT.

Report generated on 07/19/2012 at 12:59.

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09953 ICV Date: 07/19/12 Time: 13:01

Lab File ID: bl19v01.d Init. Calib. Date(s): 07/19/12 07/19/12

Matrix: (soil/water) SOIL Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	$\overline{RRF}$	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT
Dichlorodifluoromethane	0.4908	0.3689	15.03	20	-25
# Chloromethane	0.4939	0.3959	16.03	20	-20 #
* Vinyl Chloride	0.4317	0.3591	16.63	20	-17 *
Bromomethane	0.2865	0.2435	16.99	20	-15
Chloroethane	0.2295	0.1899	16.56	20	-17
Dichlorofluoromethane	0.5799	0.4409	15.21	20	-24
Trichlorofluoromethane	0.4890	0.4484	18.34	20	-8
Freon 123a	0.3582	0.3486	19.46	20	-3
Acrolein	2.6844	2.2301	124.62	150	-17
* 1,1-Dichloroethene	0.2378	0.2575	21.66	20	8 *
Freon 113	0.2645	0.2925	22.12	20	11
Acetone	0.0695	0.0670	144.48	150	-4
Methyl Iodide	0.4882	0.5159	21.14	20	6
2-Propanol	1.0439	0.9688	139.21	150	-7
Carbon Disulfide	0.7616	0.8408	22.08	20	10
Allyl Chloride	0.4668	0.4478	19.19	20	-4
Methyl Acetate	0.1766	0.2167	24.54	20	23
Methylene Chloride	0.3075	0.3013	19.59	20	-2
t-Butyl Alcohol	1.6974	1.4698	173.19	200	-13
Acrylonitrile	5.8720	4.7340	80.62	100	-19
trans-1,2-Dichloroethene	0.2944	0.2823	19.18	20	-4
Methyl Tertiary Butyl Ether	0.7973	0.7580	19.01	20	-5
n-Hexane	0.4395	0.4842	22.03	20	10
# 1,1-Dichloroethane	0.5481	0.5351	19.52	20	-2 #
2-Chloro-1,3-Butadiene	0.4721	0.4822	20.43	20	2
di-Isopropyl Ether	1.0486	0.9960	19.00	20	-5
Ethyl t-Butyl Ether	0.9397	0.8980	19.11	20	-4
cis-1,2-Dichloroethene	0.3354	0.3257	19.42	20	-3
1,2-Dichloroethene (total)	0.3149	0.3040	38.60	40	-4
2,2-Dichloropropane	0.4451	0.4402	19.78	20	-1
2-Butanone	0.1225	0.1255	153.75	150	3
Propionitrile	2.0882	1.9252	138.29	150	-8
Methacrylonitrile	6.0954	5.5744	137.18	150	-9
Bromochloromethane	0.1608	0.1490	18.54	20	-7
Tetrahydrofuran	1.8918	1.7956	94.92	100	-5
* Chloroform	0.5598	0.5173	18.48	20	-8 *

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

FORM VII VOA

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09953 ICV Date: 07/19/12 Time: 13:01

Lab File ID: bl19v01.d Init. Calib. Date(s): 07/19/12 07/19/12

Matrix: (soil/water) SOIL Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	1,1,1-Trichloroethane	0.6351	0.5215	16.42	20	-18	
	Cyclohexane	0.5558	0.5812	20.92	20	5	
	1,1-Dichloropropene	0.4186	0.3934	18.80	20	-6	
	Carbon Tetrachloride	0.4103	0.3947	19.24	20	-4	
	Benzene	1.2566	1.1840	18.84	20	-6	
	Isobutyl Alcohol	0.5396	0.4886	452.69	500	-9	
	1,2-Dichloroethane	0.3887	0.3640	18.73	20	-6	
	t-Amyl Methyl Ether	0.8304	0.7902	19.03	20	-5	
	n-Heptane	0.5133	0.5171	20.15	20	1	
	n-Butanol	0.4328	0.3770	871.08	1000	-13	
	Trichloroethene	0.3323	0.3107	18.70	20	-6	
	Methylcyclohexane	0.5670	0.5578	19.67	20	-2	
*	1,2-Dichloropropane	0.3253	0.3018	18.55	20	-7	*
	Dibromomethane	0.1848	0.1682	18.21	20	-9	
	1,4-Dioxane	0.1669	0.1513	453.13	500	-9	
	Methyl Methacrylate	0.1884	0.1718	18.24	20	-9	
	Bromodichloromethane	0.3840	0.3477	18.11	20	-9	
	2-Nitropropane	3.6414	3.4039	18.70	20	-7	
	2-Chloroethyl Vinyl Ether	0.1556	0.1460	18.77	20	-6	
	cis-1,3-Dichloropropene	0.4565	0.4473	19.60	20	-2	
	4-Methyl-2-Pentanone	0.2644	0.3060	115.76	100	16	
*	Toluene	1.1552	1.0540	18.25	20	-9	*
	trans-1,3-Dichloropropene	0.5655	0.5088	17.99	20	-10	
	Ethyl Methacrylate	0.4973	0.4574	18.39	20	-8	
	1,1,2-Trichloroethane	0.3494	0.3184	18.22	20	-9	
	Tetrachloroethene	0.5438	0.5086	18.71	20	-6	
	1,3-Dichloropropane	0.5887	0.5252	17.84	20	-11	
	2-Hexanone	0.1281	0.1552	121.17	100	21	
	Dibromochloromethane	0.3972	0.3602	18.14	20	-9	
	1,2-Dibromoethane	0.3591	0.3249	18.09	20	-10	
#	Chlorobenzene	1.2605	1.1496	18.24	20	-9	#
	1,1,1,2-Tetrachloroethane	0.4502	0.4086	18.15	20	-9	
*	Ethylbenzene	2.1773	2.0085	18.45	20	-8	*
	m+p-Xylene	0.8650	0.8040	37.18	40	-7	
	Xylene (Total)	0.8665	0.5668	55.39	60	-8	
	o-Xylene	0.8694	0.7916	18.21	20	-9	

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

FORM VII VOA

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09953 ICV Date: 07/19/12 Time: 13:01

Lab File ID: bl19v01.d Init. Calib. Date(s): 07/19/12 07/19/12

Matrix: (soil/water) SOIL Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	___ RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT
Styrene	1.4055	1.2904	18.36	20	-8
# Bromoform	0.2717	0.2284	16.82	20	-16 #
Isopropylbenzene	2.2687	2.1130	18.63	20	-7
Cyclohexanone	0.6804	0.7332	362.13	500	-28
Bromobenzene	1.0267	0.9197	17.91	20	-10
# 1,1,2,2-Tetrachloroethane	0.8192	0.7239	17.67	20	-12 #
1,2,3-Trichloropropane	0.2292	0.2050	17.88	20	-11
trans-1,4-Dichloro-2-Butene	0.2158	0.2078	96.29	100	-4
n-Propylbenzene	4.5042	4.1805	18.56	20	-7
2-Chlorotoluene	0.9692	0.8684	17.92	20	-10
1,3,5-Trimethylbenzene	3.3347	3.0740	18.44	20	-8
4-Chlorotoluene	0.9805	0.8857	18.06	20	-10
tert-Butylbenzene	0.7721	0.7016	18.17	20	-9
Pentachloroethane	0.6052	0.5396	17.83	20	-11
1,2,4-Trimethylbenzene	3.4147	3.0785	18.03	20	-10
sec-Butylbenzene	4.2710	3.9797	18.64	20	-7
1,3-Dichlorobenzene	1.9499	1.7233	17.68	20	-12
p-Isopropyltoluene	3.7615	3.4667	18.43	20	-8
1,4-Dichlorobenzene	2.0543	1.7962	17.49	20	-13
1,2,3-Trimethylbenzene	3.4276	3.1346	18.29	20	-9
Benzyl Chloride	1.5283	1.3320	18.60	20	-7
1,2-Dichlorobenzene	1.8562	1.6898	18.21	20	-9
n-Butylbenzene	1.8605	1.6960	18.23	20	-9
1,3-Diethylbenzene	2.2114	2.0331	18.39	20	-8
1,4-Diethylbenzene	2.3009	2.1429	18.63	20	-7
1,2-Diethylbenzene	1.9227	1.7415	18.11	20	-9
1,2-Dibromo-3-Chloropropane	0.1478	0.1242	16.81	20	-16
1,3,5-Trichlorobenzene	1.7229	1.5296	17.76	20	-11
1,2,4-Trichlorobenzene	1.5050	1.3463	17.89	20	-11
Hexachlorobutadiene	0.8627	0.7908	18.33	20	-8
Naphthalene	3.0721	2.6679	17.37	20	-13
1,2,3-Trichlorobenzene	1.4163	1.2361	17.46	20	-13
2-Methylnaphthalene	1.8478	1.6560	17.92	20	-10

Average %Drift 9

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

FORM VII VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: SH08363 Calibration Date(s): 05/17/12 05/17/12

Heated Purge: (Y/N) Y Calibration Times: 13:35 15:58

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

LAB FILE ID: RRF 1 = ty17i07.d RRF 4 = ty17i06.d RRF 10= ty17i05.d
RRF 20= ty17i04.d RRF 50= ty17i03.d RRF100= ty17i02.d RRF300= ty17i01.d

COMPOUND	RRF 1	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	$\overline{RRF}$	% RSD	CAL. METHOD	
Dichlorodifluoromethane	0.4169	0.5238	0.4917	0.5167	0.5143	0.4966	0.5361	0.4994	8	AVG	
Chloromethane	#0.7755	0.8914	0.8762	0.8390	0.8333	0.8278	0.8095	0.8361	5	AVG	#
Vinyl Chloride	*0.4699	0.5697	0.5501	0.5444	0.5386	0.5298	0.5235	0.5323	6	AVG	*
Bromomethane	0.2882	0.3328	0.3256	0.3235	0.3131	0.3110	0.2949	0.3127	5	AVG	
Chloroethane	0.2584	0.3051	0.3009	0.2880	0.2832	0.2795	0.2739	0.2841	6	AVG	
Trichlorofluoromethane	0.2781	0.3197	0.3049	0.3167	0.3251	0.3149	0.3331	0.3132	6	AVG	
Ethyl Ether		0.3713	0.2037	0.3882	0.4044	0.3912	0.4068	0.3609	22	1STDEG	
Acrolein		2.8060	3.1235	3.3895	2.7482	2.9595	3.1700	3.0328	8	AVG	
1,1-Dichloroethene	*0.1981	0.2260	0.2120	0.2294	0.2269	0.2285	0.2356	0.2223	6	AVG	*
Freon 113		0.2086	0.1878	0.2203	0.2365	0.2373	0.2536	0.2240	11	AVG	
Acetone		0.0715	0.0812	0.0783	0.0671	0.0636	0.0613	0.0705	11	AVG	
2-Propanol		0.8033	0.9774	0.9873	0.8504	0.8626	0.9802	0.9102	9	AVG	
Methyl Iodide	0.3598	0.4392	0.4495	0.4704	0.4737	0.4731	0.4692	0.4478	9	AVG	
Carbon Disulfide		0.8506	0.8403	0.9164	0.9532	0.9634	1.0216	0.9243	8	AVG	
Methyl Acetate		1.0186	1.0105	0.9626	0.9135	0.9343	0.9472	0.9645	4	AVG	
Allyl Chloride		0.9791	0.9934	1.0274	1.0569	1.0672	1.1060	1.0383	5	AVG	
Methylene Chloride	0.4235	0.3249	0.3205	0.3284	0.3343	0.3290	0.3271	0.3411	11	AVG	
t-Butyl Alcohol	1.0609	1.1794	1.1188	1.2399	1.1412	1.0997	1.1261	1.1380	5	AVG	
Acrylonitrile		0.3199	0.3775	0.3492	0.3327	0.3268	0.3153	0.3369	7	AVG	
trans-1,2-Dichloroethene	0.2195	0.2710	0.2585	0.2719	0.2721	0.2745	0.2761	0.2634	8	AVG	
Methyl Tertiary Butyl Ether	0.8076	0.8246	0.8934	0.9199	0.9029	0.9131	0.9104	0.8817	5	AVG	
n-Hexane		0.4551	0.3903	0.4244	0.5187	0.5205	0.5579	0.4778	14	AVG	
1,1-Dichloroethane	#0.5615	0.6289	0.6129	0.6432	0.6510	0.6516	0.6708	0.6314	6	AVG	#
di-Isopropyl Ether	1.8366	2.0065	2.0285	2.1342	2.1175	2.1067	2.0741	2.0434	5	AVG	
2-Chloro-1,3-Butadiene		0.5453	0.5462	0.5930	0.6058	0.6050	0.6590	0.5924	7	AVG	
Ethyl t-Butyl Ether	0.9994	1.1185	1.1866	1.2273	1.2121	1.2285	1.2099	1.1689	7	AVG	
2-Butanone		0.6355	0.7004	0.6743	0.6108	0.6342	0.6197	0.6458	5	AVG	
cis-1,2-Dichloroethene	0.2567	0.2874	0.2903	0.3087	0.3036	0.3089	0.3128	0.2955	7	AVG	
1,2-Dichloroethene (total)	0.2381	0.2792	0.2744	0.2903	0.2878	0.2917	0.2944	0.2794	7	AVG	
2,2-Dichloropropane	0.2578	0.3168	0.3160	0.3357	0.3438	0.3415	0.3532	0.3235	10	AVG	
Propionitrile		2.1812	2.0848	2.3071	2.0164	2.1311	2.4028	2.1872	7	AVG	
Methacrylonitrile		0.2342	0.2444	0.2469	0.2391	0.2452	0.2437	0.2422	2	AVG	
Bromochloromethane		0.1559	0.1537	0.1552	0.1601	0.1609	0.1589	0.1575	2	AVG	
Tetrahydrofuran		1.4084	1.5193	1.5504	1.3483	1.4678	1.5998	1.4823	6	AVG	
Chloroform	*0.5364	0.5165	0.5106	0.5252	0.5234	0.5320	0.5517	0.5279	3	AVG	*
1,1,1-Trichloroethane	0.2463	0.2845	0.2786	0.2999	0.3057	0.3104	0.3285	0.2934	9	AVG	
Cyclohexane		0.5931	0.5342	0.5925	0.6609	0.6615	0.6996	0.6236	10	AVG	
Cyclohexane(mz69)		0.1453	0.1217	0.1415	0.1559	0.1564	0.1676	0.1481	11	AVG	
Cyclohexane(mz84)		0.3292	0.2893	0.3224	0.3645	0.3631	0.3897	0.3430	11	AVG	
1,1-Dichloropropene	0.3058	0.3830	0.3853	0.4059	0.4132	0.4112	0.4310	0.3908	10	AVG	
Carbon Tetrachloride	0.1705	0.2172	0.2124	0.2372	0.2467	0.2509	0.2714	0.2295	14	AVG	
Isobutyl Alcohol		0.7442	0.7342	0.7761	0.7063	0.7049	0.7994	0.7442	5	AVG	
Benzene	1.0462	1.1614	1.1326	1.1799	1.1806	1.1737	1.1925	1.1524	4	AVG	
1,2-Dichloroethane	0.4204	0.4337	0.4353	0.4483	0.4436	0.4473	0.4789	0.4439	4	AVG	
1,2-Dichloroethane(mz98)	0.0081	0.0335	0.0351	0.0364	0.0367	0.0377	0.0377	0.0322	33	1STDEG	
t-Amyl Methyl Ether	0.7800	0.8307	0.8893	0.9265	0.9246	0.9364	0.9204	0.8868	7	AVG	
n-Heptane		0.6978	0.6359	0.6351	0.8213	0.8122	0.9163	0.7531	15	AVG	
n-Butanol		0.3929	0.4237	0.4359	0.4317	0.4398	0.4777	0.4336	6	AVG	
Trichloroethene	0.2289	0.2614	0.2646	0.2731	0.2773	0.2775	0.2845	0.2667	7	AVG	
Methylcyclohexane		0.4155	0.2989	0.4105	0.4227	0.4324	0.4462	0.4044	13	AVG	
1,2-Dichloropropane	*0.3291	0.3686	0.3826	0.3927	0.3932	0.3917	0.3987	0.3795	6	AVG	*
Dibromomethane	0.2066	0.2327	0.2373	0.2434	0.2403	0.2455	0.2478	0.2362	6	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: SH08363 Calibration Date(s): 05/17/12 05/17/12

Heated Purge: (Y/N) Y Calibration Times: 13:35 15:58

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

LAB FILE ID: RRF 1 = ty17i07.d RRF 4 = ty17i06.d RRF 10= ty17i05.d
RRF 20= ty17i04.d RRF 50= ty17i03.d RRF100= ty17i02.d RRF300= ty17i01.d

COMPOUND	RRF 1	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	$\overline{RRF}$	% RSD	CAL. METHOD	
1,4-Dioxane		0.0666	0.0691	0.0591	0.0675	0.0694	0.0682	0.0667	6	AVG	
Methyl Methacrylate		0.3025	0.3356	0.3494	0.3490	0.3602	0.3665	0.3439	7	AVG	
Bromodichloromethane	0.2920	0.3290	0.3408	0.3589	0.3795	0.3939	0.4186	0.3589	12	AVG	
2-Nitropropane		0.1520	0.1888	0.2045	0.1945	0.2152	0.2371	0.1987	14	AVG	
2-Chloroethyl Vinyl Ether		0.2971	0.3248	0.3348	0.3451	0.3574	0.3607	0.3367	7	AVG	
cis-1,3-Dichloropropene	0.3475	0.4140	0.4701	0.4990	0.5109	0.5248	0.5511	0.4739	15	AVG	
4-Methyl-2-Pentanone		0.3101	0.3655	0.4054	0.3305	0.3552	0.3372	0.3506	9	AVG	
Toluene	*0.8301	0.9524	0.9359	0.9652	0.9746	0.9742	0.9925	0.9464	6	AVG	*
trans-1,3-Dichloropropene	0.4874	0.5917	0.6356	0.6760	0.7240	0.7475	0.7854	0.6640	15	AVG	
Ethyl Methacrylate		0.7231	0.8075	0.8307	0.8701	0.8820	0.8871	0.8334	7	AVG	
1,1,2-Trichloroethane	0.3709	0.4060	0.4294	0.4411	0.4212	0.4268	0.4281	0.4177	6	AVG	
Tetrachloroethene	0.2920	0.3861	0.3658	0.3728	0.3988	0.3951	0.4118	0.3746	11	AVG	
1,3-Dichloropropane	0.7358	0.8038	0.8351	0.8314	0.8401	0.8424	0.8537	0.8203	5	AVG	
2-Hexanone		0.5263	0.6395	0.7251	0.5783	0.6403	0.5544	0.6107	12	AVG	
Dibromochloromethane	0.2805	0.3367	0.3826	0.4034	0.4450	0.4519	0.4816	0.3974	18	2NDDEG	
1,2-Dibromoethane	0.3828	0.4589	0.4873	0.4882	0.5124	0.5131	0.5198	0.4804	10	AVG	
Chlorobenzene	#0.8603	0.9993	0.9810	0.9887	1.0288	1.0266	1.0403	0.9893	6	AVG	#
1,1,1,2-Tetrachloroethane	0.2511	0.2713	0.3063	0.3261	0.3417	0.3438	0.3540	0.3135	13	AVG	
Ethylbenzene	*	0.4663	0.4798	0.4806	0.5161	0.5079	0.5208	0.4952	5	AVG	*
m+p-Xylene		0.5937	0.5920	0.5959	0.6370	0.6327	0.6377	0.6148	4	AVG	
Xylene (Total)		0.5836	0.5830	0.5917	0.6315	0.6265	0.6348	0.6085	4	AVG	
o-Xylene		0.5636	0.5649	0.5832	0.6205	0.6141	0.6290	0.5959	5	AVG	
Styrene		0.9080	0.9945	1.0229	1.1072	1.1035	1.1021	1.0397	8	AVG	
Bromoform	#0.2186	0.2596	0.3045	0.3295	0.3617	0.3919	0.4159	0.3259	22	2NDDEG	#
Isopropylbenzene		1.3551	1.3340	1.3306	1.4823	1.4341	1.3156	1.3753	5	AVG	
1,1,2,2-Tetrachloroethane	#1.5827	1.6706	1.7115	1.8169	1.7590	1.7329	1.7459	1.7171	4	AVG	#
Bromobenzene		0.8276	0.8479	0.8752	0.8832	0.9020	0.9139	0.8750	4	AVG	
trans-1,4-Dichloro-2-Butene		0.5782	0.6088	0.6455	0.6077	0.6078	0.5850	0.6055	4	AVG	
1,2,3-Trichloropropane		0.3316	0.3541	0.3619	0.3602	0.3609	0.3740	0.3571	4	AVG	
n-Propylbenzene		3.8566	3.8792	3.7823	4.1833	4.0455	3.0006	3.7912	11	AVG	
2-Chlorotoluene		0.7228	0.7121	0.7138	0.7523	0.7285	0.7724	0.7337	3	AVG	
1,3,5-Trimethylbenzene		2.2646	2.3503	2.2437	2.5217	2.4806	2.3053	2.3610	5	AVG	
4-Chlorotoluene		0.7687	0.7376	0.7546	0.7934	0.7850	0.8461	0.7809	5	AVG	
tert-Butylbenzene		0.4787	0.4055	0.4731	0.5269	0.5094	0.5442	0.4896	10	AVG	
Pentachloroethane		0.4437	0.4587	0.4936	0.5137	0.5169	0.5285	0.4925	7	AVG	
1,2,4-Trimethylbenzene		2.4060	2.4604	2.3866	2.5472	2.5123	2.3519	2.4441	3	AVG	
sec-Butylbenzene		2.8408	2.8293	2.6975	3.1442	3.0304	2.6182	2.8601	7	AVG	
1,3-Dichlorobenzene		1.4985	1.4428	1.4112	1.5149	1.5259	1.5659	1.4932	4	AVG	
p-Isopropyltoluene		2.2467	2.2301	2.1545	2.4889	2.4542	2.3176	2.3153	6	AVG	
1,4-Dichlorobenzene		1.5189	1.4803	1.5115	1.5821	1.5753	1.5984	1.5444	3	AVG	
1,2,3-Trimethylbenzene		2.6332	2.6535	2.6771	2.6972	2.6242	2.3483	2.6056	5	AVG	
Benzyl Chloride		1.7190	2.0014	2.2556	2.3965	2.5254	2.2705	2.1947	13	AVG	
1,3-Diethylbenzene		1.3648	1.3981	1.4585	1.5100	1.4714	1.4603	1.4439	4	AVG	
1,4-Diethylbenzene		1.4417	1.4381	1.4954	1.5654	1.5250	1.5194	1.4975	3	AVG	
n-Butylbenzene		1.5244	1.5073	1.4632	1.7078	1.6584	1.6879	1.5915	7	AVG	
1,2-Dichlorobenzene		1.4250	1.3894	1.3968	1.4727	1.4639	1.5006	1.4414	3	AVG	
1,2-Diethylbenzene		1.1792	1.1884	1.2116	1.2368	1.2013	1.2066	1.2040	2	AVG	
1,2-Dibromo-3-Chloropropane		0.2611	0.2847	0.2955	0.3043	0.3079	0.3119	0.2942	6	AVG	
1,3,5-Trichlorobenzene		0.9427	0.9863	0.9299	1.0727	1.0541	1.0940	1.0133	7	AVG	
1,2,4-Trichlorobenzene		0.8296	0.8481	0.8510	0.9534	0.9433	0.9849	0.9017	7	AVG	
Hexachlorobutadiene		0.3536	0.3612	0.3516	0.4290	0.4078	0.4386	0.3903	10	AVG	
Naphthalene	2.7319	2.4818	2.6656	2.6804	2.9935	2.9155	2.6523	2.7316	6	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: SH08363 Calibration Date(s): 05/17/12 05/17/12

Heated Purge: (Y/N) Y Calibration Times: 13:35 15:58

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

LAB FILE ID: RRF 1 = ty17i07.d RRF 4 = ty17i06.d RRF 10= ty17i05.d
RRF 20= ty17i04.d RRF 50= ty17i03.d RRF100= ty17i02.d RRF300= ty17i01.d

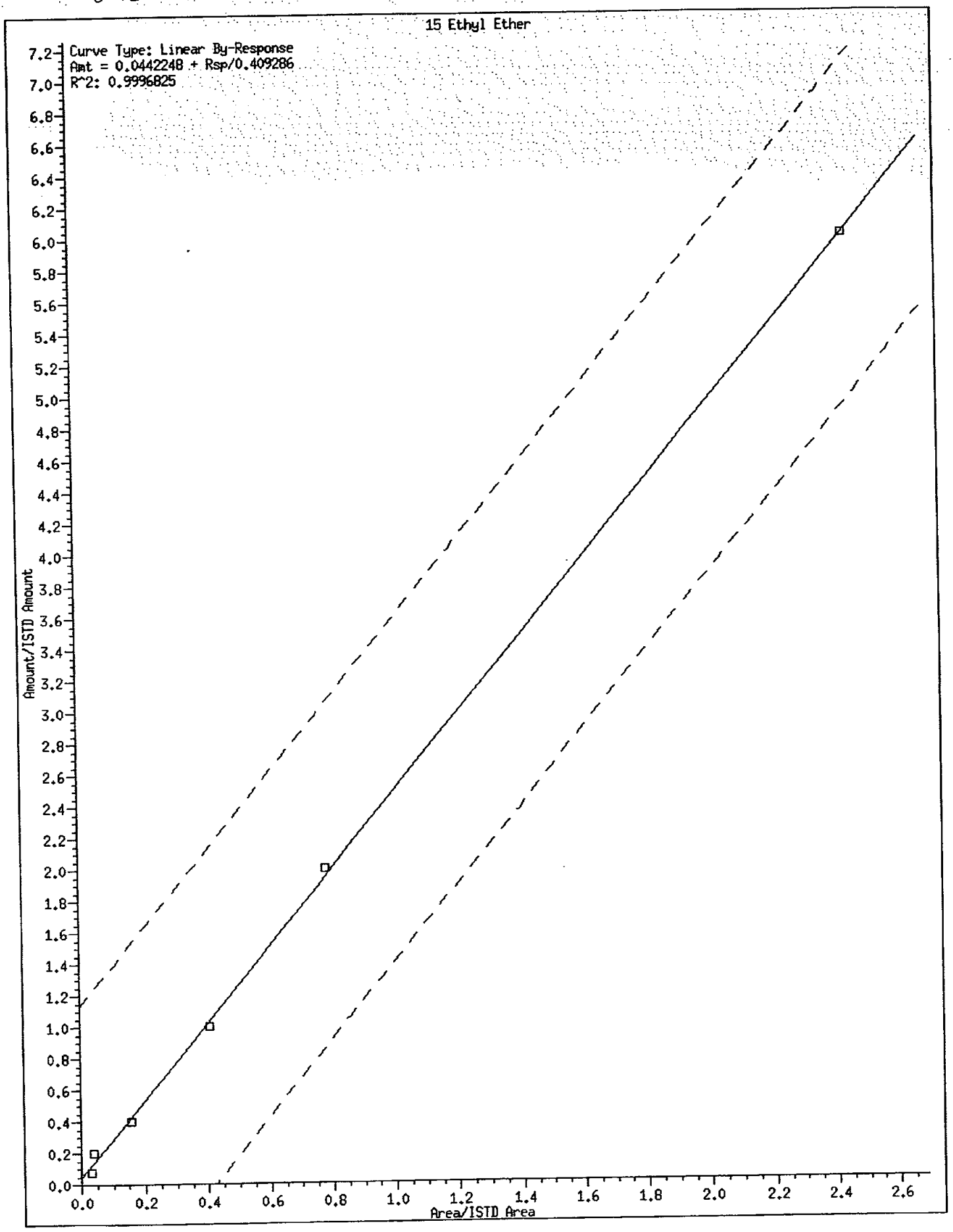
COMPOUND	RRF 1	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	$\overline{RRF}$	% RSD	CAL. METHOD
1,2,3-Trichlorobenzene		0.7925	0.8219	0.7923	0.9179	0.9000	0.9645	0.8648	8	AVG
Dibromofluoromethane		0.2834	0.2829	0.2880	0.2845	0.2820	0.2876	0.2848	1	AVG
Dibromofluoromethane(mz111)		0.2863	0.2899	0.2881	0.2867	0.2916	0.2939	0.2894	1	AVG
1,2-Dichloroethane-d4		0.0706	0.0700	0.0687	0.0671	0.0690	0.0689	0.0691	2	AVG
1,2-Dichloroethane-d4(mz104)		0.0441	0.0448	0.0436	0.0442	0.0427	0.0447	0.0440	2	AVG
1,2-Dichloroethane-d4(mz65)		0.3547	0.3561	0.3602	0.3407	0.3439	0.3656	0.3535	3	AVG
Toluene-d8		1.3989	1.3717	1.3454	1.3672	1.3701	1.3377	1.3652	2	AVG
Toluene-d8(mz100)		0.9350	0.9209	0.9142	0.9241	0.9222	0.9166	0.9222	1	AVG
4-Bromofluorobenzene		0.5764	0.5584	0.5496	0.5713	0.5635	0.5695	0.5648	2	AVG
4-Bromofluorobenzene(mz174)		0.4144	0.4175	0.4123	0.4267	0.4119	0.4108	0.4156	1	AVG

Average %RSD 7

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

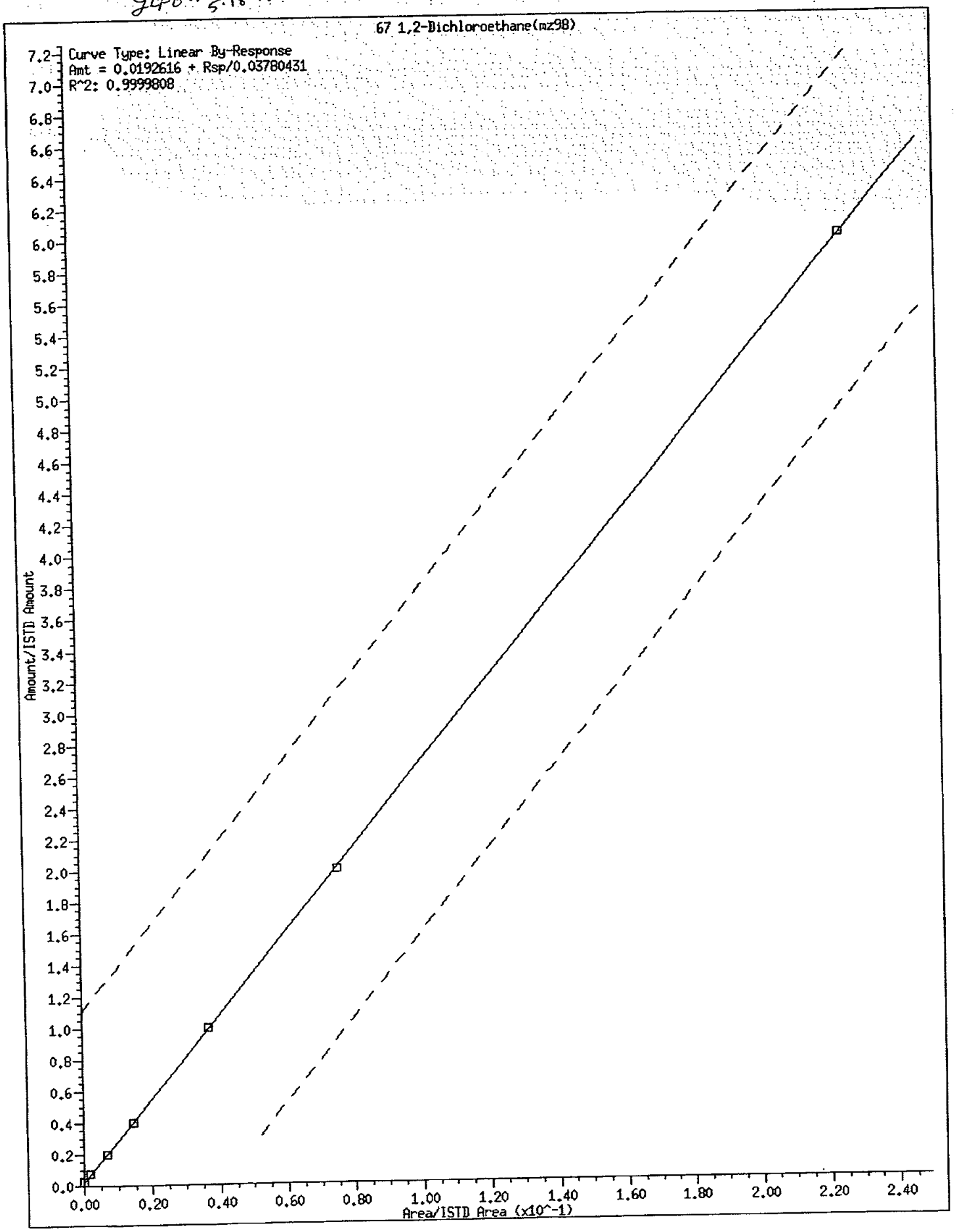
FORM VI VOA

ICP895
5·18·17



ASX73 0070

ycp8ar 5.18.17



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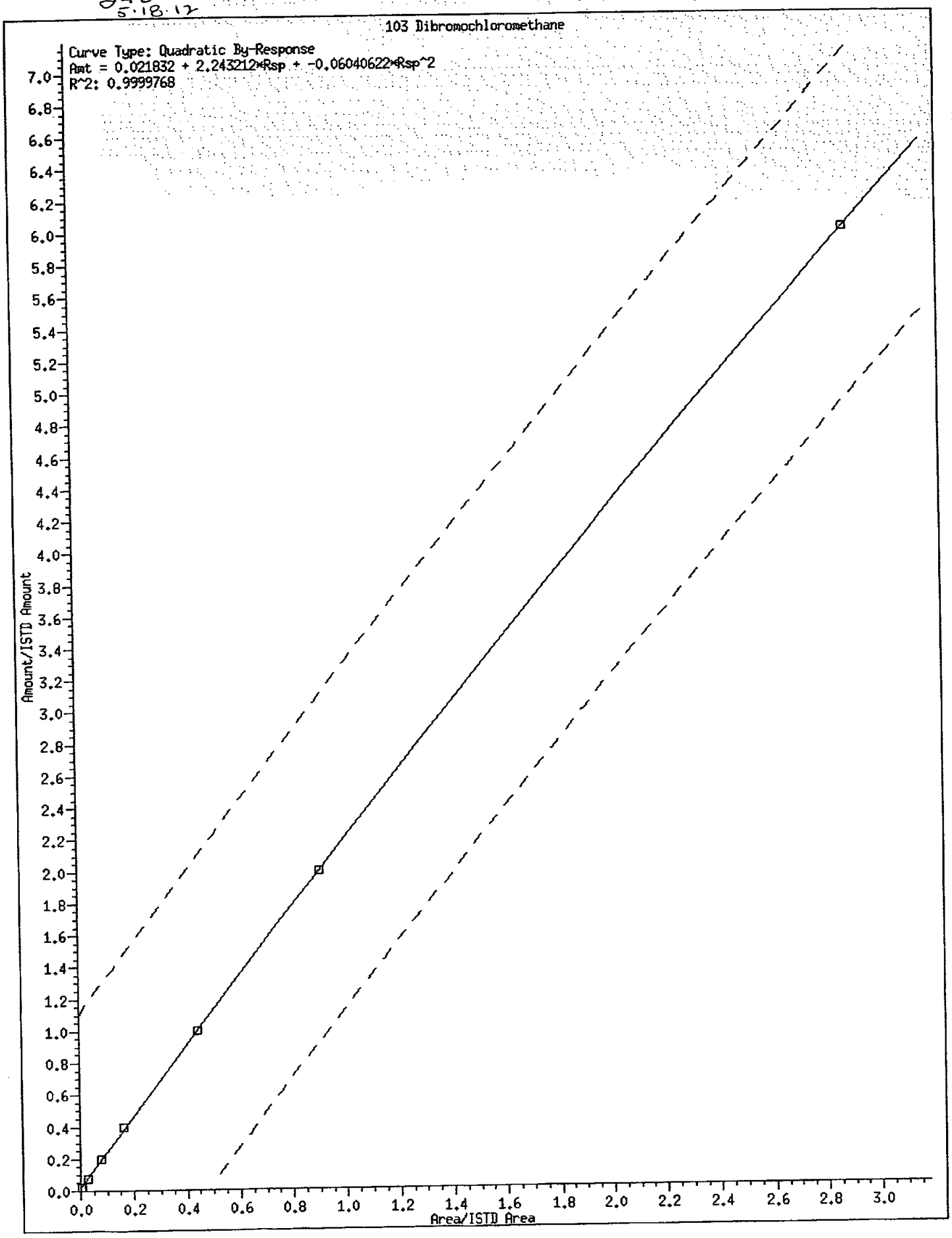
5.18.12



ASX73 0072

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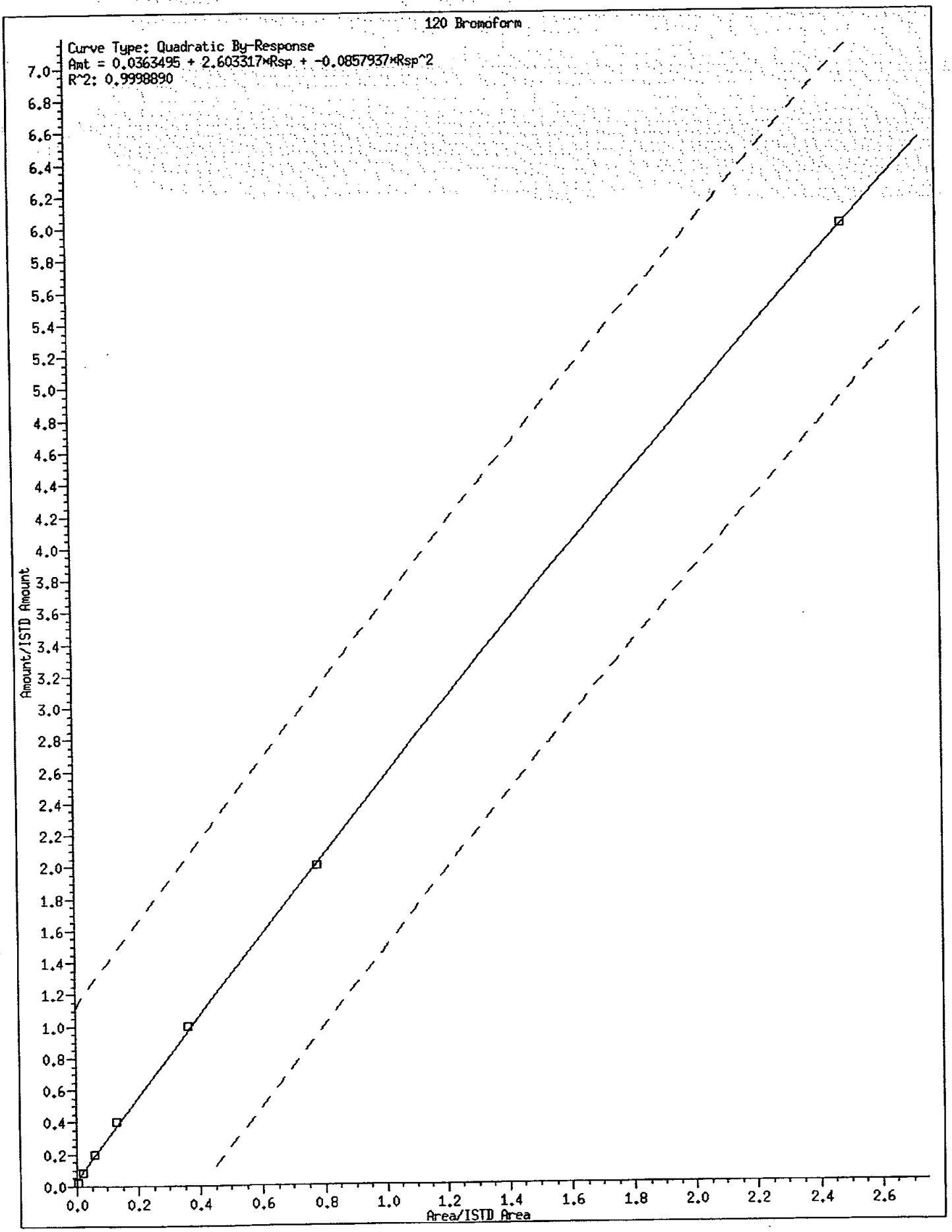

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/SH08363.i/12may17c.b/ty17i01.d VSTD300
/chem/SH08363.i/12may17c.b/ty17i02.d VSTD100
/chem/SH08363.i/12may17c.b/ty17i03.d VSTD050
/chem/SH08363.i/12may17c.b/ty17i04.d VSTD020
/chem/SH08363.i/12may17c.b/ty17i05.d VSTD010
/chem/SH08363.i/12may17c.b/ty17i06.d VSTD004
/chem/SH08363.i/12may17c.b/ty17i07.d VSTD001

Area Summary

File ID:

Internal Standard Name	ty17i01.d	ty17i02.d	ty17i03.d	ty17i04.d	ty17i05.d	ty17i06.d	ty17i07.d	Avg. Area	%RS
t-Butyl Alcohol-d10	209704	257085	271970	247731	266317	256048	254085	251849	8
Fluorobenzene	817959	876881	881263	871078	866346	875785	854402	863388	3
Chlorobenzene-d5	553764	583122	578317	582230	570674	568313	561827	571178	2
1,4-Dichlorobenzene-d4	278465	295675	293047	286446	285911	281179	271313	284577	3

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

File ID:

Internal Standard Name	ty17i01.d	ty17i02.d	ty17i03.d	ty17i04.d	ty17i05.d	ty17i06.d	ty17i07.d	Avg. RT
t-Butyl Alcohol-d10	4.289	4.274	4.267	4.259	4.267	4.259	4.267	4.269
Fluorobenzene	7.713	7.706	7.706	7.706	7.706	7.699	7.706	7.706
Chlorobenzene-d5	11.167	11.160	11.167	11.160	11.167	11.160	11.167	11.164
1,4-Dichlorobenzene-d4	13.052	13.052	13.052	13.052	13.052	13.045	13.052	13.051

* indicates the retention time is greater than 30 seconds from the average RT.

Report generated on 05/18/2012 at 11:35.

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: SH08363 ICV Date: 05/18/12 Time: 12:36

Lab File ID: ty18s01.d Init. Calib. Date(s): 05/18/12 05/18/12

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

COMPOUND	$\overline{RRF}$	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT
Dichlorodifluoromethane	0.4994	0.2859	11.45	20	-43
# Chloromethane	0.8361	0.7549	18.06	20	-10 #
* Vinyl Chloride	0.5323	0.4850	18.22	20	-9 *
Bromomethane	0.3127	0.2884	18.44	20	-8
Chloroethane	0.2841	0.2558	18.01	20	-10
Trichlorofluoromethane	0.3132	0.3195	20.41	20	2
Ethyl Ether	0.3609	0.1938	11.68	20	-42
Acrolein	3.0328	2.5669	126.96	150	-15
* 1,1-Dichloroethene	0.2223	0.2510	22.58	20	13 *
Freon 113	0.2240	0.2508	22.39	20	12
Acetone	0.0705	0.0723	153.79	150	3
2-Propanol	0.9102	0.7354	121.19	150	-19
Methyl Iodide	0.4478	0.5041	22.51	20	13
Carbon Disulfide	0.9243	1.0491	22.70	20	14
Methyl Acetate	0.9645	1.0929	22.66	20	13
Allyl Chloride	1.0383	1.1008	21.20	20	6
Methylene Chloride	0.3411	0.3529	20.69	20	3
t-Butyl Alcohol	1.1380	1.1251	197.73	200	-1
Acrylonitrile	0.3369	0.3588	106.49	100	6
trans-1,2-Dichloroethene	0.2634	0.2887	21.92	20	10
Methyl Tertiary Butyl Ether	0.8817	0.9794	22.22	20	11
n-Hexane	0.4778	0.5443	22.78	20	14
# 1,1-Dichloroethane	0.6314	0.6823	21.61	20	8 #
di-Isopropyl Ether	2.0434	2.2229	21.76	20	9
2-Chloro-1,3-Butadiene	0.5924	0.6615	22.33	20	12
Ethyl t-Butyl Ether	1.1689	1.2827	21.95	20	10
2-Butanone	0.6458	0.6726	156.23	150	4
cis-1,2-Dichloroethene	0.2955	0.3166	21.43	20	7
1,2-Dichloroethene (total)	0.2794	0.3026	43.35	40	8
2,2-Dichloropropane	0.3235	0.3505	21.67	20	8
Propionitrile	2.1872	2.2048	151.20	150	1
Methacrylonitrile	0.2422	0.2583	159.93	150	7
Bromochloromethane	0.1575	0.1614	20.51	20	3
Tetrahydrofuran	1.4823	1.4517	97.93	100	-2
* Chloroform	0.5279	0.5346	20.25	20	1 *
1,1,1-Trichloroethane	0.2934	0.3096	21.10	20	6

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

FORM VII VOA

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: SH08363 ICV Date: 05/18/12 Time: 12:36

Lab File ID: ty18s01.d Init. Calib. Date(s): 05/18/12 05/18/12

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

	COMPOUND	___ RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Cyclohexane	0.6236	0.6867	22.02	20	10	
	1,1-Dichloropropene	0.3908	0.4229	21.65	20	8	
	Carbon Tetrachloride	0.2295	0.2539	22.13	20	11	
	Isobutyl Alcohol	0.7442	0.7311	491.22	500	-2	
	Benzene	1.1524	1.2284	21.32	20	7	
	1,2-Dichloroethane	0.4439	0.4753	21.41	20	7	
	t-Amyl Methyl Ether	0.8868	0.9602	21.65	20	8	
	n-Heptane	0.7531	0.8112	21.54	20	8	
	n-Butanol	0.4336	0.4179	963.69	1000	-4	
	Trichloroethene	0.2667	0.2865	21.48	20	7	
	Methylcyclohexane	0.4044	0.4109	20.32	20	2	
*	1,2-Dichloropropane	0.3795	0.4003	21.10	20	5	*
	Dibromomethane	0.2362	0.2527	21.40	20	7	
	1,4-Dioxane	0.0667	0.0686	514.27	500	3	
	Methyl Methacrylate	0.3439	0.3723	21.65	20	8	
	Bromodichloromethane	0.3589	0.3814	21.25	20	6	
	2-Nitropropane	0.1987	0.1814	18.26	20	-9	
	2-Chloroethyl Vinyl Ether	0.3367	0.3419	20.31	20	2	
	cis-1,3-Dichloropropene	0.4739	0.5208	21.98	20	10	
	4-Methyl-2-Pentanone	0.3506	0.3420	97.53	100	-2	
*	Toluene	0.9464	0.9977	21.08	20	5	*
	trans-1,3-Dichloropropene	0.6640	0.7043	21.22	20	6	
	Ethyl Methacrylate	0.8334	0.9599	23.04	20	15	
	1,1,2-Trichloroethane	0.4177	0.4410	21.12	20	6	
	Tetrachloroethene	0.3746	0.4056	21.65	20	8	
	1,3-Dichloropropane	0.8203	0.8673	21.15	20	6	
	2-Hexanone	0.6107	0.5801	94.99	100	-5	
	Dibromochloromethane	0.3974	0.4238	20.02	20	0	
	1,2-Dibromoethane	0.4804	0.5211	21.70	20	8	
#	Chlorobenzene	0.9893	1.0453	21.13	20	6	#
	1,1,1,2-Tetrachloroethane	0.3135	0.3319	21.18	20	6	
*	Ethylbenzene	0.4952	0.5075	20.50	20	2	*
	m+p-Xylene	0.6148	0.6399	41.63	40	4	
	Xylene (Total)	0.6085	0.4151	62.39	60	4	
	o-Xylene	0.5959	0.6184	20.76	20	4	
	Styrene	1.0397	1.0802	20.78	20	4	

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: SH08363 ICV Date: 05/18/12 Time: 12:36

Lab File ID: ty18s01.d Init. Calib. Date(s): 05/18/12 05/18/12

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

COMPOUND	___ RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT
# Bromoform	0.3259	0.3437	19.63	20	-2 #
Isopropylbenzene	1.3753	1.4878	21.64	20	8
# 1,1,2,2-Tetrachloroethane	1.7171	1.7782	20.71	20	4 #
Bromobenzene	0.8750	0.9023	20.63	20	3
trans-1,4-Dichloro-2-Butene	0.6055	0.6799	112.29	100	12
1,2,3-Trichloropropane	0.3571	0.3705	20.75	20	4
n-Propylbenzene	3.7912	4.1803	22.05	20	10
2-Chlorotoluene	0.7337	0.7524	20.51	20	3
1,3,5-Trimethylbenzene	2.3610	2.5089	21.25	20	6
4-Chlorotoluene	0.7809	0.7843	20.09	20	0
tert-Butylbenzene	0.4896	0.5383	21.99	20	10
Pentachloroethane	0.4925	0.4788	19.44	20	-3
1,2,4-Trimethylbenzene	2.4441	2.5997	21.27	20	6
sec-Butylbenzene	2.8601	3.0735	21.49	20	7
1,3-Dichlorobenzene	1.4932	1.5296	20.49	20	2
p-Isopropyltoluene	2.3153	2.4712	21.35	20	7
1,4-Dichlorobenzene	1.5444	1.5669	20.29	20	1
1,2,3-Trimethylbenzene	2.6056	2.6702	20.50	20	2
Benzyl Chloride	2.1947	3.0534	27.82	20	39
1,3-Diethylbenzene	1.4439	1.4311	19.82	20	-1
1,4-Diethylbenzene	1.4975	1.5087	20.15	20	1
n-Butylbenzene	1.5915	1.6942	21.29	20	6
1,2-Dichlorobenzene	1.4414	1.4484	20.10	20	0
1,2-Diethylbenzene	1.2040	1.2070	20.05	20	0
1,2-Dibromo-3-Chloropropane	0.2942	0.2979	20.25	20	1
1,3,5-Trichlorobenzene	1.0133	1.0465	20.65	20	3
1,2,4-Trichlorobenzene	0.9017	0.9239	20.49	20	2
Hexachlorobutadiene	0.3903	0.4207	21.56	20	8
Naphthalene	2.7316	2.7857	20.40	20	2
1,2,3-Trichlorobenzene	0.8648	0.8959	20.72	20	4

Average %Drift 7

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09953 Calibration Date: 07/24/12 Time: 10:18

Lab File ID: bl24c01.d Init. Calib. Date(s): 07/19/12 07/19/12

Matrix: (soil/water) SOIL Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4908	0.4903	49.95	50	0	
#	Chloromethane	0.4939	0.4967	50.28	50	1	#
*	Vinyl Chloride	0.4317	0.4499	52.10	50	4	*
	Bromomethane	0.2865	0.2933	51.18	50	2	
	Chloroethane	0.2295	0.2372	51.68	50	3	
	Dichlorofluoromethane	0.5799	0.5850	50.44	50	1	
	Trichlorofluoromethane	0.4890	0.5134	52.49	50	5	
	Freon 123a	0.3582	0.3534	49.33	50	-1	
	Acrolein	2.6844	2.8079	523.01	500	5	
*	1,1-Dichloroethene	0.2378	0.2471	51.95	50	4	*
	Freon 113	0.2645	0.3007	56.85	50	14	
	Acetone	0.0695	0.0622	89.43	100	-11	
	Methyl Iodide	0.4882	0.5283	54.11	50	8	
	2-Propanol	1.0439	0.9582	229.49	250	-8	
	Carbon Disulfide	0.7616	0.8060	52.92	50	6	
	Allyl Chloride	0.4668	0.4115	44.08	50	-12	
	Methyl Acetate	0.1766	0.1506	42.62	50	-15	
	Methylene Chloride	0.3075	0.2837	46.13	50	-8	
	t-Butyl Alcohol	1.6974	1.3158	193.80	250	-22	
	Acrylonitrile	5.8720	6.0405	51.44	50	3	
	trans-1,2-Dichloroethene	0.2944	0.3163	53.71	50	7	
	Methyl Tertiary Butyl Ether	0.7973	0.7938	49.78	50	0	
	n-Hexane	0.4395	0.4903	55.78	50	12	
#	1,1-Dichloroethane	0.5481	0.5775	52.68	50	5	#
	2-Chloro-1,3-Butadiene	0.4721	0.4813	50.97	50	2	
	di-Isopropyl Ether	1.0486	1.0297	49.10	50	-2	
	Ethyl t-Butyl Ether	0.9397	0.8855	47.12	50	-6	
	cis-1,2-Dichloroethene	0.3354	0.3432	51.15	50	2	
	1,2-Dichloroethene (total)	0.3149	0.3297	104.69	100	5	
	2,2-Dichloropropane	0.4451	0.4513	50.70	50	1	
	2-Butanone	0.1225	0.1141	93.15	100	-7	
	Propionitrile	2.0882	2.1056	252.09	250	1	
	Methacrylonitrile	6.0954	6.2123	127.40	125	2	
	Bromochloromethane	0.1608	0.1617	50.30	50	1	
	Tetrahydrofuran	1.8918	1.9179	101.38	100	1	
*	Chloroform	0.5598	0.5441	48.60	50	-3	*

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

ASX73 0078

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09953 Calibration Date: 07/24/12 Time: 10:18

Lab File ID: bl24c01.d Init. Calib. Date(s): 07/19/12 07/19/12

Matrix: (soil/water) SOIL Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	1,1,1-Trichloroethane	0.6351	0.4841	38.11	50	-24	
	Cyclohexane	0.5558	0.6061	54.53	50	9	
	Cyclohexane(mz69)	0.1663	0.1835	55.19	50	10	
	Cyclohexane(mz84)	0.4527	0.5073	56.03	50	12	
	1,1-Dichloropropene	0.4186	0.4417	52.76	50	6	
	Carbon Tetrachloride	0.4103	0.4250	51.79	50	4	
	Benzene	1.2566	1.2782	50.86	50	2	
	Isobutyl Alcohol	0.5396	0.4961	574.55	625	-8	
	1,2-Dichloroethane	0.3887	0.3729	47.97	50	-4	
	1,2-Dichloroethane(mz98)	0.0363	0.0356	49.05	50	-2	
	t-Amyl Methyl Ether	0.8304	0.7832	47.15	50	-6	
	n-Heptane	0.5133	0.5429	52.88	50	6	
	n-Butanol	0.4328	0.3866	1116.53	1250	-11	
	Trichloroethene	0.3323	0.3315	49.88	50	0	
	Methylcyclohexane	0.5670	0.5944	52.42	50	5	
	Methylcyclohexane(mz98)	0.2544	0.2678	52.64	50	5	
*	1,2-Dichloropropane	0.3253	0.3345	51.42	50	3	*
	Dibromomethane	0.1848	0.1799	48.69	50	-3	
	1,4-Dioxane	0.1669	0.1723	645.04	625	3	
	Methyl Methacrylate	0.1884	0.1709	45.36	50	-9	
	Bromodichloromethane	0.3840	0.3664	47.71	50	-5	
	2-Nitropropane	3.6414	3.4244	94.04	100	-6	
	2-Chloroethyl Vinyl Ether	0.1556	0.1480	47.57	50	-5	
	cis-1,3-Dichloropropene	0.4565	0.4569	50.05	50	0	
	4-Methyl-2-Pentanone	0.2644	0.2525	95.52	100	-4	
*	Toluene	1.1552	1.1416	49.41	50	-1	*
	trans-1,3-Dichloropropene	0.5655	0.5389	47.64	50	-5	
	Ethyl Methacrylate	0.4973	0.4525	45.49	50	-9	
	1,1,2-Trichloroethane	0.3494	0.3349	47.93	50	-4	
	Tetrachloroethene	0.5438	0.5430	49.93	50	0	
	1,3-Dichloropropane	0.5887	0.5783	49.11	50	-2	
	2-Hexanone	0.1281	0.1230	96.03	100	-4	
	Dibromochloromethane	0.3972	0.3824	48.13	50	-4	
	1,2-Dibromoethane	0.3591	0.3381	47.07	50	-6	
#	Chlorobenzene	1.2605	1.2729	50.49	50	1	#
	1,1,1,2-Tetrachloroethane	0.4502	0.4478	49.73	50	-1	

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

ASX73 0079

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09953 Calibration Date: 07/24/12 Time: 10:18

Lab File ID: bl24c01.d Init. Calib. Date(s): 07/19/12 07/19/12

Matrix: (soil/water) SOIL Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
*	Ethylbenzene	2.1773	2.1809	50.08	50	0	*
	m+p-Xylene	0.8650	0.8748	101.14	100	1	
	Xylene (Total)	0.8665	0.8757	151.60	150	1	
	o-Xylene	0.8694	0.8775	50.46	50	1	
	Styrene	1.4055	1.3759	48.95	50	-2	
#	Bromoform	0.2717	0.2519	46.35	50	-7	#
	Isopropylbenzene	2.2687	2.3295	51.34	50	3	
	Cyclohexanone	1.9614	0.6389	203.60	625	-67	
	Bromobenzene	1.0267	0.9445	46.00	50	-8	
#	1,1,2,2-Tetrachloroethane	0.8192	0.7266	44.35	50	-11	#
	1,2,3-Trichloropropane	0.2292	0.2053	44.78	50	-10	
	trans-1,4-Dichloro-2-Butene	0.2158	0.1855	107.45	125	-14	
	n-Propylbenzene	4.5042	4.4357	49.24	50	-2	
	2-Chlorotoluene	0.9692	0.9369	48.33	50	-3	
	1,3,5-Trimethylbenzene	3.3347	3.2896	49.32	50	-1	
	4-Chlorotoluene	0.9805	0.9601	48.96	50	-2	
	tert-Butylbenzene	0.7721	0.7726	50.03	50	0	
	Pentachloroethane	0.6052	0.5796	47.89	50	-4	
	1,2,4-Trimethylbenzene	3.4147	3.3454	48.99	50	-2	
	sec-Butylbenzene	4.2710	4.3378	50.78	50	2	
	1,3-Dichlorobenzene	1.9499	1.8723	48.01	50	-4	
	p-Isopropyltoluene	3.7615	3.8238	50.83	50	2	
	1,4-Dichlorobenzene	2.0543	1.9167	46.65	50	-7	
	1,2,3-Trimethylbenzene	3.4276	3.2754	47.78	50	-4	
	Benzyl Chloride	1.5283	1.3909	41.07	50	-18	
	1,2-Dichlorobenzene	1.8562	1.7873	48.14	50	-4	
	n-Butylbenzene	1.8605	1.8453	49.59	50	-1	
	1,3-Diethylbenzene	2.2114	2.1677	49.01	50	-2	
	1,4-Diethylbenzene	2.3009	2.2615	49.14	50	-2	
	1,2-Diethylbenzene	1.9227	1.8341	47.69	50	-5	
	1,2-Dibromo-3-Chloropropane	0.1478	0.1271	43.00	50	-14	
	1,3,5-Trichlorobenzene	1.7229	1.6423	47.66	50	-5	
	1,2,4-Trichlorobenzene	1.5050	1.4326	47.59	50	-5	
	Hexachlorobutadiene	0.8627	0.8267	47.91	50	-4	
	Naphthalene	3.0721	2.8564	46.49	50	-7	
	1,2,3-Trichlorobenzene	1.4163	1.3263	46.82	50	-6	

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

ASX73 0050

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09953 Calibration Date: 07/24/12 Time: 10:18

Lab File ID: bl24c01.d Init. Calib. Date(s): 07/19/12 07/19/12

Matrix: (soil/water) SOIL Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
2-Methylnaphthalene	1.8478	1.6958	45.89	50	-8
Dibromofluoromethane	0.2373	0.2391	50.37	50	1
Dibromofluoromethane(mz111)	0.2419	0.2438	50.38	50	1
1,2-Dichloroethane-d4	0.0500	0.0518	51.76	50	4
1,2-Dichloroethane-d4(mz65)	0.2421	0.2340	48.34	50	-3
1,2-Dichloroethane-d4(mz104)	0.0323	0.0329	50.90	50	2
Toluene-d8	1.3477	1.3665	50.69	50	1
Toluene-d8(mz100)	0.8865	0.9014	50.84	50	2
4-Bromofluorobenzene	0.4910	0.4857	49.46	50	-1
4-Bromofluorobenzene(mz174)	0.4580	0.4448	48.56	50	-3

Average %Drift 5

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

ASX73 0081

Lancaster Laboratories
Continuing Calibration Internal Standard Check

Initial Calibration Standards:

/chem2/HP09953.i/12jul19a.b/bl19i06.d
/chem2/HP09953.i/12jul19a.b/bl19i05.d
/chem2/HP09953.i/12jul19a.b/bl19i04.d
/chem2/HP09953.i/12jul19a.b/bl19i03.d
/chem2/HP09953.i/12jul19a.b/bl19i02.d
/chem2/HP09953.i/12jul19a.b/bl19i01.d

File /chem2/HP09953.i/12jul19a.b/bl19i03.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem2/HP09953.i/12jul24a.b/bl24c01.d

RT Summary

Internal Standard Name	File ID: bl24c01.d	ICAL RT	In Spec
t-Butyl Alcohol-d10	2.222	2.210	Yes
Fluorobenzene	4.351	4.357	Yes
Chlorobenzene-d5	7.539	7.545	Yes
1,4-Dichlorobenzene-d4	9.522	9.522	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

Internal Standard Name	File ID: bl24c01.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl Alcohol-d10	82889	84613	42306	169226	Yes
Fluorobenzene	1027008	1082601	541300	2165202	Yes
Chlorobenzene-d5	738820	757818	378909	1515636	Yes
1,4-Dichlorobenzene-d4	441935	444149	222074	888298	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

Comments: _____

Data File: /chem2/HP09953.i/12jul24a.b/bl24s23.d
Report Date: 07/25/2012 04:31

Lancaster Laboratories, Inc.
Shift Ending Continuing Calibration Check Report

Instrument ID: HP09953.i
Client ID: VSTD050
Lab Sample ID: VST050
Sublist used: 7813.sub

Injection Date and Time: 24-JUL-2012 22:13
Initial Calibration Date(s): 19-JUL-2012 19-JUL-2012
Initial Calibration Time(s): 09:42 21:38
Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m

Target Compounds	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
Chloromethane	0.49389	0.57639	0.100	-16.7	50.0
Vinyl Chloride	0.43175	0.51483	0.001	-19.2	20.0
Bromomethane	0.28655	0.33697	0.001	-17.6	50.0
Chloroethane	0.22946	0.26860	0.001	-17.1	50.0
1,1-Dichloroethene	0.23780	0.31084	0.001	-30.7	20.0
Acetone	0.06952	0.07730	0.001	-11.2	50.0
Carbon Disulfide	0.76162	1.00309	0.001	-31.7	50.0
Methylene Chloride	0.30754	0.35324	0.001	-14.9	50.0
trans-1,2-Dichloroethene	0.29444	0.39302	0.001	-33.5	50.0
1,1-Dichloroethane	0.54812	0.70765	0.100	-29.1	50.0
cis-1,2-Dichloroethene	0.33543	0.42300	0.001	-26.1	50.0
2-Butanone	0.12248	0.13860	0.001	-13.2	50.0
Chloroform	0.55980	0.65912	0.001	-17.7	20.0
1,1,1-Trichloroethane	0.63510	0.60148	0.001	5.3	50.0
Carbon Tetrachloride	0.41033	0.50026	0.001	-21.9	50.0
Benzene	1.25658	1.55511	0.001	-23.8	50.0
1,2-Dichloroethane	0.38865	0.46409	0.001	-19.4	50.0
Trichloroethene	0.33226	0.40193	0.001	-21.0	50.0
1,2-Dichloropropane	0.32528	0.40560	0.001	-24.7	20.0
Bromodichloromethane	0.38402	0.44143	0.001	-15.0	50.0
cis-1,3-Dichloropropene	0.45651	0.54185	0.001	-18.7	50.0
4-Methyl-2-Pentanone	0.26438	0.30728	0.001	-16.2	50.0
Toluene	1.15520	1.36668	0.001	-18.3	20.0
trans-1,3-Dichloropropene	0.56552	0.63726	0.001	-12.7	50.0
1,1,2-Trichloroethane	0.34940	0.41413	0.001	-18.5	50.0
Tetrachloroethene	0.54377	0.66437	0.001	-22.2	50.0
2-Hexanone	0.12806	0.14741	0.001	-15.1	50.0
Dibromochloromethane	0.39721	0.45647	0.001	-14.9	50.0
Chlorobenzene	1.26053	1.52338	0.300	-20.9	50.0
Ethylbenzene	2.17731	2.59152	0.001	-19.0	20.0
m+p-Xylene	0.86498	1.03969	0.001	-20.2	50.0
Xylene (Total)	0.86646	1.04171	0.001	-20.2	50.0
o-Xylene	0.86940	1.04575	0.001	-20.3	50.0
Styrene	1.40550	1.64810	0.001	-17.3	50.0
Bromoform	0.27168	0.29518	0.100	-8.6	50.0
1,1,2,2-Tetrachloroethane	0.81920	0.89771	0.300	-9.6	50.0

Surrogate Standards	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
Dibromofluoromethane	0.23731	0.24020	0.001	-1.2	50.0
1,2-Dichloroethane-d4	0.05004	0.05160	0.001	-3.1	50.0
Toluene-d8	1.34774	1.35591	0.001	-0.6	50.0
4-Bromofluorobenzene	0.49098	0.48515	0.001	1.2	50.0

ASX73 0083

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: SH08363 Calibration Date: 07/18/12 Time: 09:01

Lab File ID: tl18c01.d Init. Calib. Date(s): 05/17/12 05/17/12

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4994	0.3488	34.92	50	-30	
#	Chloromethane	0.8361	0.7770	46.46	50	-7	#
*	Vinyl Chloride	0.5323	0.4939	46.39	50	-7	*
	Bromomethane	0.3127	0.3030	48.44	50	-3	
	Chloroethane	0.2841	0.2723	47.91	50	-4	
	Trichlorofluoromethane	0.3132	0.3068	48.98	50	-2	
	Ethyl Ether	0.3609	0.3725	47.72	50	-5	
	Acrolein	3.0328	2.4037	396.29	500	-21	
*	1,1-Dichloroethene	0.2223	0.2412	54.25	50	9	*
	Freon 113	0.2240	0.2317	51.71	50	3	
	Acetone	0.0705	0.0751	106.56	100	7	
	2-Propanol	0.9102	0.9389	257.88	250	3	
	Methyl Iodide	0.4478	0.5060	56.49	50	13	
	Carbon Disulfide	0.9243	0.9519	51.49	50	3	
	Methyl Acetate	0.9645	0.7596	39.38	50	-21	
	Allyl Chloride	1.0383	0.8538	41.11	50	-18	
	Methylene Chloride	0.3411	0.3409	49.97	50	0	
	t-Butyl Alcohol	1.1380	1.1107	244.01	250	-2	
	Acrylonitrile	0.3369	0.3184	47.25	50	-5	
	trans-1,2-Dichloroethene	0.2634	0.2931	55.65	50	11	
	Methyl Tertiary Butyl Ether	0.8817	0.9299	52.73	50	5	
	n-Hexane	0.4778	0.4771	49.92	50	0	
#	1,1-Dichloroethane	0.6314	0.6787	53.75	50	7	#
	di-Isopropyl Ether	2.0434	1.9980	48.89	50	-2	
	2-Chloro-1,3-Butadiene	0.5924	0.6036	50.94	50	2	
	Ethyl t-Butyl Ether	1.1689	1.2787	54.70	50	9	
	2-Butanone	0.6458	0.5714	88.48	100	-12	
	cis-1,2-Dichloroethene	0.2955	0.3238	54.80	50	10	
	1,2-Dichloroethene (total)	0.2794	0.3085	110.45	100	10	
	2,2-Dichloropropane	0.3235	0.3593	55.53	50	11	
	Propionitrile	2.1872	1.7609	201.27	250	-19	
	Methacrylonitrile	0.2422	0.2221	114.59	125	-8	
	Bromochloromethane	0.1575	0.1574	49.98	50	0	
	Tetrahydrofuran	1.4823	1.1791	79.54	100	-20	
*	Chloroform	0.5279	0.5419	51.32	50	3	*
	1,1,1-Trichloroethane	0.2934	0.3414	58.17	50	16	

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: SH08363 Calibration Date: 07/18/12 Time: 09:01

Lab File ID: tl18c01.d Init. Calib. Date(s): 05/17/12 05/17/12

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Cyclohexane	0.6236	0.6070	48.67	50	-3
Cyclohexane(mz69)	0.1481	0.1481	50.00	50	0
Cyclohexane(mz84)	0.3430	0.3363	49.03	50	-2
1,1-Dichloropropene	0.3908	0.4145	53.03	50	6
Carbon Tetrachloride	0.2295	0.2611	56.89	50	14
Isobutyl Alcohol	0.7442	0.6475	543.84	625	-13
Benzene	1.1524	1.1764	51.04	50	2
1,2-Dichloroethane	0.4439	0.4689	52.81	50	6
1,2-Dichloroethane(mz98)	0.0322	0.0393	52.75	50	6
t-Amyl Methyl Ether	0.8868	0.9277	52.30	50	5
n-Heptane	0.7531	0.7063	46.89	50	-6
n-Butanol	0.4336	0.3996	1151.93	1250	-8
Trichloroethene	0.2667	0.2876	53.90	50	8
Methylcyclohexane	0.4044	0.3367	41.63	50	-17
* 1,2-Dichloropropane	0.3795	0.3953	52.08	50	4 *
Dibromomethane	0.2362	0.2450	51.85	50	4
1,4-Dioxane	0.0667	0.0741	694.65	625	11
Methyl Methacrylate	0.3439	0.3307	48.08	50	-4
Bromodichloromethane	0.3589	0.3730	51.95	50	4
2-Nitropropane	0.1987	0.1878	94.53	100	-5
2-Chloroethyl Vinyl Ether	0.3367	0.3323	49.35	50	-1
cis-1,3-Dichloropropene	0.4739	0.5158	54.41	50	9
4-Methyl-2-Pentanone	0.3506	0.3085	87.99	100	-12
* Toluene	0.9464	0.9946	52.55	50	5 *
trans-1,3-Dichloropropene	0.6640	0.7052	53.10	50	6
Ethyl Methacrylate	0.8334	0.8400	50.40	50	1
1,1,2-Trichloroethane	0.4177	0.4294	51.41	50	3
Tetrachloroethene	0.3746	0.4171	55.67	50	11
1,3-Dichloropropane	0.8203	0.8094	49.33	50	-1
2-Hexanone	0.6107	0.4999	81.86	100	-18
Dibromochloromethane	0.3974	0.4368	49.50	50	-1
1,2-Dibromoethane	0.4804	0.5092	53.00	50	6
# Chlorobenzene	0.9893	1.0578	53.46	50	7 #
1,1,1,2-Tetrachloroethane	0.3135	0.3521	56.15	50	12
* Ethylbenzene	0.4952	0.5216	52.67	50	5 *
m+p-Xylene	0.6148	0.6424	104.48	100	4

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

ASX73 0085

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: SH08363 Calibration Date: 07/18/12 Time: 09:01

Lab File ID: tl18c01.d Init. Calib. Date(s): 05/17/12 05/17/12

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Xylene (Total)	0.6085	0.6374	157.13	150	5	
	o-Xylene	0.5959	0.6275	52.65	50	5	
	Styrene	1.0397	1.1092	53.34	50	7	
#	Bromoform	0.3259	0.3444	46.13	50	-8	#
	Isopropylbenzene	1.3753	1.5380	55.92	50	12	
#	1,1,2,2-Tetrachloroethane	1.7171	1.5829	46.09	50	-8	#
	Bromobenzene	0.8750	0.8946	51.12	50	2	
	trans-1,4-Dichloro-2-Butene	0.6055	0.4412	91.09	125	-27	
	1,2,3-Trichloropropane	0.3571	0.3480	48.72	50	-3	
	n-Propylbenzene	3.7912	4.1259	54.41	50	9	
	2-Chlorotoluene	0.7337	0.7628	51.99	50	4	
	1,3,5-Trimethylbenzene	2.3610	2.5645	54.31	50	9	
	4-Chlorotoluene	0.7809	0.7973	51.05	50	2	
	tert-Butylbenzene	0.4896	0.5389	55.04	50	10	
	Pentachloroethane	0.4925	0.4920	49.95	50	0	
	1,2,4-Trimethylbenzene	2.4441	2.6745	54.72	50	9	
	sec-Butylbenzene	2.8601	3.1565	55.18	50	10	
	1,3-Dichlorobenzene	1.4932	1.5616	52.29	50	5	
	p-Isopropyltoluene	2.3153	2.6014	56.18	50	12	
	1,4-Dichlorobenzene	1.5444	1.5726	50.91	50	2	
	1,2,3-Trimethylbenzene	2.6056	2.7182	52.16	50	4	
	Benzyl Chloride	2.1947	2.2031	50.19	50	0	
	1,3-Diethylbenzene	1.4439	1.4776	51.17	50	2	
	1,4-Diethylbenzene	1.4975	1.5703	52.43	50	5	
	n-Butylbenzene	1.5915	1.6687	52.42	50	5	
	1,2-Dichlorobenzene	1.4414	1.4774	51.25	50	2	
	1,2-Diethylbenzene	1.2040	1.2181	50.59	50	1	
	1,2-Dibromo-3-Chloropropane	0.2942	0.2609	44.33	50	-11	
	1,3,5-Trichlorobenzene	1.0133	1.0569	52.15	50	4	
	1,2,4-Trichlorobenzene	0.9017	0.9021	50.02	50	0	
	Hexachlorobutadiene	0.3903	0.4041	51.77	50	4	
	Naphthalene	2.7316	2.5949	47.50	50	-5	
	1,2,3-Trichlorobenzene	0.8648	0.7717	44.62	50	-11	
	Dibromofluoromethane	0.2848	0.2885	50.66	50	1	
	Dibromofluoromethane(mz111)	0.2894	0.2951	50.99	50	2	

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

ASX73 0086

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: SH08363 Calibration Date: 07/18/12 Time: 09:01

Lab File ID: tl18c01.d Init. Calib. Date(s): 05/17/12 05/17/12

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
1,2-Dichloroethane-d4	0.0691	0.0716	51.85	50	4
1,2-Dichloroethane-d4(mz104)	0.0440	0.0456	51.78	50	4
1,2-Dichloroethane-d4(mz65)	0.3535	0.3512	49.67	50	-1
Toluene-d8	1.3652	1.3455	49.28	50	-1
Toluene-d8(mz100)	0.9222	0.9063	49.14	50	-2
4-Bromofluorobenzene	0.5648	0.5645	49.97	50	0
4-Bromofluorobenzene(mz174)	0.4156	0.4214	50.70	50	1

Average %Drift 7

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

ASX73 0087

Lancaster Laboratories

Continuing Calibration Internal Standard Check

Initial Calibration Standards:

/chem/SH08363.i/12may17c.b/ty17i07.d
/chem/SH08363.i/12may17c.b/ty17i06.d
/chem/SH08363.i/12may17c.b/ty17i05.d
/chem/SH08363.i/12may17c.b/ty17i04.d
/chem/SH08363.i/12may17c.b/ty17i03.d
/chem/SH08363.i/12may17c.b/ty17i02.d
/chem/SH08363.i/12may17c.b/ty17i01.d

File /chem/SH08363.i/12may17c.b/ty17i03.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem/SH08363.i/12jul18a.b/tl18c01.d

RT Summary

Internal Standard Name	File ID: tl18c01.d	ICAL RT	In Spec
t-Butyl Alcohol-d10	4.215	4.267	Yes
Fluorobenzene	7.640	7.706	Yes
Chlorobenzene-d5	11.101	11.167	Yes
1,4-Dichlorobenzene-d4	12.986	13.052	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

Internal Standard Name	File ID: tl18c01.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl Alcohol-d10	351057	271970	135985	543940	Yes
Fluorobenzene	1031075	881263	440632	1762526	Yes
Chlorobenzene-d5	691090	578317	289158	1156634	Yes
1,4-Dichlorobenzene-d4	351916	293047	146524	586094	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

Comments: _____

report generated on 07/18/2012 at 09:28

Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d
Report Date: 07/18/2012 21:04

Lancaster Laboratories, Inc.
Shift Ending Continuing Calibration Check Report

Instrument ID: SH08363.i
Client ID: VSTD050
Lab Sample ID: VSTD050
Sublist used: 1163.sub

Injection Date and Time: 18-JUL-2012 20:21
Initial Calibration Date(s): 17-MAY-2012 17-MAY-2012
Initial Calibration Time(s): 13:35 15:58
Method used: /chem/SH08363.i/12jul18a.b/T826W.m

Target Compounds	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
Chloromethane	0.83612	0.86253	0.100	-3.2	50.0
Vinyl Chloride	0.53228	0.55263	0.001	-3.8	20.0
Bromomethane	0.31273	0.31508	0.001	-0.8	50.0
Chloroethane	0.28411	0.30039	0.001	-5.7	50.0
1,1-Dichloroethene	0.22233	0.23541	0.001	-5.9	20.0
Acetone	0.07050	0.07955	0.001	-12.8	50.0
Carbon Disulfide	0.92425	1.00931	0.001	-9.2	50.0
Methylene Chloride	0.34110	0.33748	0.001	1.1	50.0
trans-1,2-Dichloroethene	0.26337	0.28050	0.001	-6.5	50.0
1,1-Dichloroethane	0.63140	0.71186	0.100	-12.7	50.0
2-Butanone	0.64582	0.79910	0.001	-23.7	50.0
cis-1,2-Dichloroethene	0.29547	0.31094	0.001	-5.2	50.0
Chloroform	0.52796	0.58587	0.001	-11.0	20.0
1,1,1-Trichloroethane	0.29343	0.37442	0.001	-27.6	50.0
Carbon Tetrachloride	0.22948	0.29222	0.001	-27.3	50.0
Benzene	1.15242	1.19727	0.001	-3.9	50.0
1,2-Dichloroethane	0.44395	0.54518	0.001	-22.8	50.0
Trichloroethene	0.26674	0.28982	0.001	-8.7	50.0
1,2-Dichloropropane	0.37950	0.41182	0.001	-8.5	20.0
Bromodichloromethane	0.35896	0.41467	0.001	-15.5	50.0
cis-1,3-Dichloropropene	0.47391	0.53010	0.001	-11.9	50.0
4-Methyl-2-Pentanone	0.35064	0.53477	0.001	-52.5	50.0
Toluene	0.94641	1.00022	0.001	-5.7	20.0
trans-1,3-Dichloropropene	0.66395	0.77543	0.001	-16.8	50.0
1,1,2-Trichloroethane	0.41765	0.43921	0.001	-5.2	50.0
Tetrachloroethene	0.37463	0.39339	0.001	-5.0	50.0
2-Hexanone	0.61066	0.95686	0.001	-56.7	50.0
Dibromochloromethane	50.000	53.038	0.001	-6.1	50.0
Chlorobenzene	0.98929	1.04975	0.300	-6.1	50.0
Ethylbenzene	0.49524	0.52158	0.001	-5.3	20.0
m+p-Xylene	0.61483	0.65719	0.001	-6.9	50.0
Xylene (Total)	0.60852	0.65015	0.001	-6.8	50.0
o-Xylene	0.59590	0.63608	0.001	-6.7	50.0
Styrene	1.03970	1.13294	0.001	-9.0	50.0
Bromoform	50.000	47.972	0.100	4.1	50.0
1,1,2,2-Tetrachloroethane	1.71708	1.70067	0.300	1.0	50.0

Surrogate Standards	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
Dibromofluoromethane	0.28475	0.29888	0.001	-5.0	50.0
1,2-Dichloroethane-d4	0.06906	0.07019	0.001	-1.6	50.0
Toluene-d8	1.36518	1.39464	0.001	-2.2	50.0
4-Bromofluorobenzene	0.56479	0.60021	0.001	-6.3	50.0

ASX73 0090

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: LANCAS Case No.: SAS No.: SDG No.: ASX73

Lab File ID (Standard): bl24c01.d Date Analyzed: 07/24/12

Instrument ID: HP09953 Time Analyzed: 10:18

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #	IS4(TBA) AREA #	RT #
	12 HOUR STD	1027008	4.351	738820	7.539	441935	9.522	82889	2.222
	UPPER LIMIT	2054016	4.851	1477640	8.039	883870	10.022	165778	2.722
	LOWER LIMIT	513504	3.851	369410	7.039	220968	9.022	41444	1.722
	LAB SAMPLE ID								
01	VBLKB63	957353	4.345	697833	7.539	407371	9.522	76305	2.210
02	LCSB63	987475	4.357	714586	7.545	436803	9.522	84090	2.222
03	LCSB64	751604	4.351	542725	7.545	315498	9.528	58950	2.216
04	LCDB64	966423	4.351	700978	7.545	412936	9.528	89972	2.216
05	6721498	923369	4.358	614314	7.545	286922	9.528		
06	6721502	863841	4.351	626561	7.545	365099	9.528		
07	6727926	914242	4.351	665437	7.545	386862	9.528	77844	2.216
08	6727927	799252	4.351	580951	7.545	342439	9.528	73198	2.222
09	6727928	973387	4.345	697587	7.545	395092	9.528	63748	2.210
10	6722441RE	838373	4.351	461192	7.545	162430	* 9.528	70009	2.216
11	6723751	932984	4.351	641765	7.545	324666	9.528	68180	2.210
12	6723752	909483	4.351	650596	7.545	367973	9.528	58278	2.216
13	6723749	873351	4.345	561969	7.545	235286	9.528	61290	2.198
14	6723753	904013	4.351	664048	7.545	382682	9.528	75275	2.216
15	6723696MS	929233	4.345	653575	7.539	370837	9.522	45261	2.198
16	6723697MSD	904481	4.351	637095	7.539	365554	9.522	50925	2.210
17	6723700	765184	4.351	515566	7.545	253544	9.528	44900	2.210
18	VSTD050	849833	4.357	615116	7.539	370156	9.522		

IS1 (FBZ)=Fluorobenzene
IS2 (CBZ)=Chlorobenzene-d5
IS3 (DCB)=1,4-Dichlorobenzene-d4
IS4 (TBA)=t-Butyl Alcohol-d10

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

FORM VIII VOA

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: LANCAS Case No.: SAS No.: SDG No.: ASX73

Lab File ID (Standard): tl18c01.d Date Analyzed: 07/18/12

Instrument ID: SH08363 Time Analyzed: 09:01

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #	IS4(TBA) AREA #	RT #
	12 HOUR STD	1031075	7.640	691090	11.101	351916	12.986	351057	4.215
	UPPER LIMIT	2062150	8.140	1382180	11.601	703832	13.486	702114	4.715
	LOWER LIMIT	515538	7.140	345545	10.601	175958	12.486	175528	3.715
	LAB SAMPLE ID								
01	LCST71	946990	7.633	626139	11.101	319696	12.986	318375	4.208
02	LCDT71	945891	7.633	632741	11.101	318691	12.986	321243	4.215
03	VBLKT71	955801	7.633	628112	11.101	311216	12.986	315845	4.193
04	6721504	944944	7.633	638211	11.101	310195	12.986		
05	6721505	911381	7.633	613204	11.094	294714	12.986		
06	6721506	850640	7.633	567963	11.101	273950	12.986		
07	6722708	818631	7.633	543863	11.101	261656	12.986		
08	6722709	799233	7.633	525931	11.101	254951	12.986		
09	6722557	805564	7.640	525276	11.101	253013	12.986		
10	6722558	777710	7.640	511949	11.101	243139	12.986		
11	6722735	778477	7.640	521656	11.101	245255	12.986		
12	6722736	772063	7.640	510236	11.101	241949	12.986		
13	6722732	754258	7.640	507152	11.101	243789	12.986	265418	4.230
14	6722732MS	783489	7.633	517637	11.094	264603	12.979	294218	4.208
15	6722733	756823	7.633	510635	11.101	238806	12.986		
16	6722734	810494	7.640	547788	11.101	288206	12.986		
17	6722734DL	899272	7.633	601725	11.094	292714	12.979		
18	6722706	900815	7.633	592764	11.101	295155	12.986		
19	6722706DL	870481	7.633	580794	11.101	285709	12.986		
20	6722191	843424	7.633	566508	11.101	275120	12.986		
21	6712889	841598	7.633	566450	11.101	277130	12.986	287263	4.208
22	6712889DL	821843	7.625	545658	11.094	262433	12.979	282195	4.208

IS1 (FBZ)=Fluorobenzene
IS2 (CBZ)=Chlorobenzene-d5
IS3 (DCB)=1,4-Dichlorobenzene-d4
IS4 (TBA)=t-Butyl Alcohol-d10

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

FORM VIII VOA

Sample Data

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LOQ/MDL Summary
GC/MS Volatiles

SDG: ASX73

Fraction: Volatiles by GC/MS

10237: TCL(3.2) by 8260(soil) Analyte Name	Default MDL	Default LOQ	Units
Chloromethane	2	5	ug/kg
Vinyl Chloride	1	5	ug/kg
Bromomethane	2	5	ug/kg
Chloroethane	2	5	ug/kg
1,1-Dichloroethene	1	5	ug/kg
Acetone	7	20	ug/kg
Carbon Disulfide	1	5	ug/kg
Methylene Chloride	2	5	ug/kg
trans-1,2-Dichloroethene	1	5	ug/kg
1,1-Dichloroethane	1	5	ug/kg
2-Butanone	4	10	ug/kg
cis-1,2-Dichloroethene	1	5	ug/kg
Chloroform	1	5	ug/kg
1,1,1-Trichloroethane	1	5	ug/kg
Carbon Tetrachloride	1	5	ug/kg
Benzene	0.5	5	ug/kg
1,2-Dichloroethane	1	5	ug/kg
Trichloroethene	1	5	ug/kg
1,2-Dichloropropane	1	5	ug/kg
Bromodichloromethane	1	5	ug/kg
cis-1,3-Dichloropropene	1	5	ug/kg
4-Methyl-2-pentanone	3	10	ug/kg
Toluene	1	5	ug/kg
trans-1,3-Dichloropropene	1	5	ug/kg
1,1,2-Trichloroethane	1	5	ug/kg
Tetrachloroethene	1	5	ug/kg
2-Hexanone	3	10	ug/kg
Dibromochloromethane	1	5	ug/kg
Chlorobenzene	1	5	ug/kg
Ethylbenzene	1	5	ug/kg
Xylene (Total)	1	5	ug/kg
Styrene	1	5	ug/kg
Bromoform	1	5	ug/kg
1,1,2,2-Tetrachloroethane	1	5	ug/kg

10903: 8260 Std. Water Master Analyte Name	Default MDL	Default LOQ	Units
Chloromethane	1	5	ug/l
Vinyl Chloride	1	5	ug/l
Bromomethane	1	5	ug/l
Chloroethane	1	5	ug/l
1,1-Dichloroethene	0.8	5	ug/l
Acetone	6	20	ug/l
Carbon Disulfide	1	5	ug/l
Methylene Chloride	2	5	ug/l
trans-1,2-Dichloroethene	0.8	5	ug/l
1,1-Dichloroethane	1	5	ug/l

eurofins | Lancaster Laboratories

LOQ/MDL Summary
GC/MS Volatiles

SDG: ASX73

Fraction: Volatiles by GC/MS

10903: 8260 Std. Water Master Analyte Name	Default MDL	Default LOQ	Units
2-Butanone	3	10	ug/l
cis-1,2-Dichloroethene	0.8	5	ug/l
Chloroform	0.8	5	ug/l
1,1,1-Trichloroethane	0.8	5	ug/l
Carbon Tetrachloride	1	5	ug/l
Benzene	0.5	5	ug/l
1,2-Dichloroethane	1	5	ug/l
Trichloroethene	1	5	ug/l
1,2-Dichloropropane	1	5	ug/l
Bromodichloromethane	1	5	ug/l
cis-1,3-Dichloropropene	1	5	ug/l
4-Methyl-2-pentanone	3	10	ug/l
Toluene	0.7	5	ug/l
trans-1,3-Dichloropropene	1	5	ug/l
1,1,2-Trichloroethane	0.8	5	ug/l
Tetrachloroethene	0.8	5	ug/l
2-Hexanone	3	10	ug/l
Dibromochloromethane	1	5	ug/l
Chlorobenzene	0.8	5	ug/l
Ethylbenzene	0.8	5	ug/l
Xylene (Total)	0.8	5	ug/l
Styrene	1	5	ug/l
Bromoform	1	5	ug/l
1,1,2,2-Tetrachloroethane	1	5	ug/l

49--1

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6721498

Data file: /chem2/HP09953.i/12jul24a.b/bl24s01.d
Data file Sample Info. Line: 49--1;6721498;2;0;;ASX73;;;bl24b02;
Date, time and analyst ID of latest file update: 24-Jul-2012 16:39 kel01973

Injection date and time: **24-JUL-2012 15:36**
Instrument ID: **HP09953.i** Batch: **B122061AA**

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/bl24b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **7813**
Calibration date and time (Last Method Edit): 24-JUL-2012 13:29
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/bl24c01.d**

Bottle Code: **150A** Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **0.99**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5.04 g

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Change)	Conc. (on-column)	QC Flag
73) Fluorobenzene	4.358(-0.006)	580	96	923369 (-10)	50.00	
106) Chlorobenzene-d5	7.545(-0.006)	1104	117	614314 (-17)	50.00	
137) 1,4-Dichlorobenzene-d4	9.529(-0.006)	1430	152	286922 (-35)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
53) Dibromofluoromethane	(1)	3.719(0.000)	113	218954	49.961	100%		50 - 141
62) 1,2-Dichloroethane-d4	(1)	4.035(-0.002)	102	49235	53.278	107%		54 - 135
90) Toluene-d8	(2)	5.988(0.001)	98	871304	52.619	105%		52 - 141
120) 4-Bromofluorobenzene	(2)	8.622(0.001)	95	273234	45.295	91%		50 - 131

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
3) Chloromethane	(1)			Not Detected					2	5
4) Vinyl Chloride	(1)			Not Detected					1	5
6) Bromomethane	(1)			Not Detected					2	5
7) Chloroethane	(1)			Not Detected					2	5
14) 1,1-Dichloroethene	(1)			Not Detected					1	5
17) Acetone	(1)			Not Detected					7	20
23) Carbon Disulfide	(1)			Not Detected					1	5
27) Methylene Chloride	(1)	2.192(-0.000)	84	11474	2.020	2.00		J	2	5
31) trans-1,2-Dichloroethene	(1)			Not Detected					1	5
37) 1,1-Dichloroethane	(1)			Not Detected					1	5
44) cis-1,2-Dichloroethene	(1)			Not Detected					1	5
46) 2-Butanone	(1)			Not Detected					4	10
52) Chloroform	(1)			Not Detected					1	5
55) 1,1,1-Trichloroethane	(1)			Not Detected					1	5
60) Carbon Tetrachloride	(1)			Not Detected					1	5
65) Benzene	(1)			Not Detected					0.5	5
66) 1,2-Dichloroethane	(1)			Not Detected					1	5
75) Trichloroethene	(1)			Not Detected					1	5
78) 1,2-Dichloropropane	(1)			Not Detected					1	5
83) Bromodichloromethane	(1)			Not Detected					1	5
87) cis-1,3-Dichloropropene	(1)			Not Detected					1	5
89) 4-Methyl-2-Pentanone	(1)			Not Detected					3	10
92) Toluene	(2)			Not Detected					1	5
93) trans-1,3-Dichloropropene	(2)			Not Detected					1	5
96) 1,1,2-Trichloroethane	(2)			Not Detected					1	5
97) Tetrachloroethene	(2)			Not Detected					1	5
100) 2-Hexanone	(2)			Not Detected					3	10
103) Dibromochloromethane	(2)			Not Detected					1	5
107) Chlorobenzene	(2)			Not Detected					1	5
109) Ethylbenzene	(2)			Not Detected					1	5
110) m+p-Xylene	(2)			Not Detected					1	5

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 16:39. Target 3.5 esignature user ID: kel01973

ASX73 0096

49--1

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6721498

Data file: /chem2/HP09953.i/12jul24a.b/bl24s01.d
Injection date and time: **24-JUL-2012 15:36**
Data file Sample Info. Line: 49--1;6721498;2;0;;ASX73;;;bl24b02;
Instrument ID: **HP09953.i** Batch: **B122061AA**
Date, time and analyst ID of latest file update: 24-Jul-2012 16:39 kel01973

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/bl24b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **7813**
Calibration date and time (Last Method Edit): 24-JUL-2012 13:29
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/bl24c01.d**

Bottle Code: **150A** Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **0.99**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5.04 g

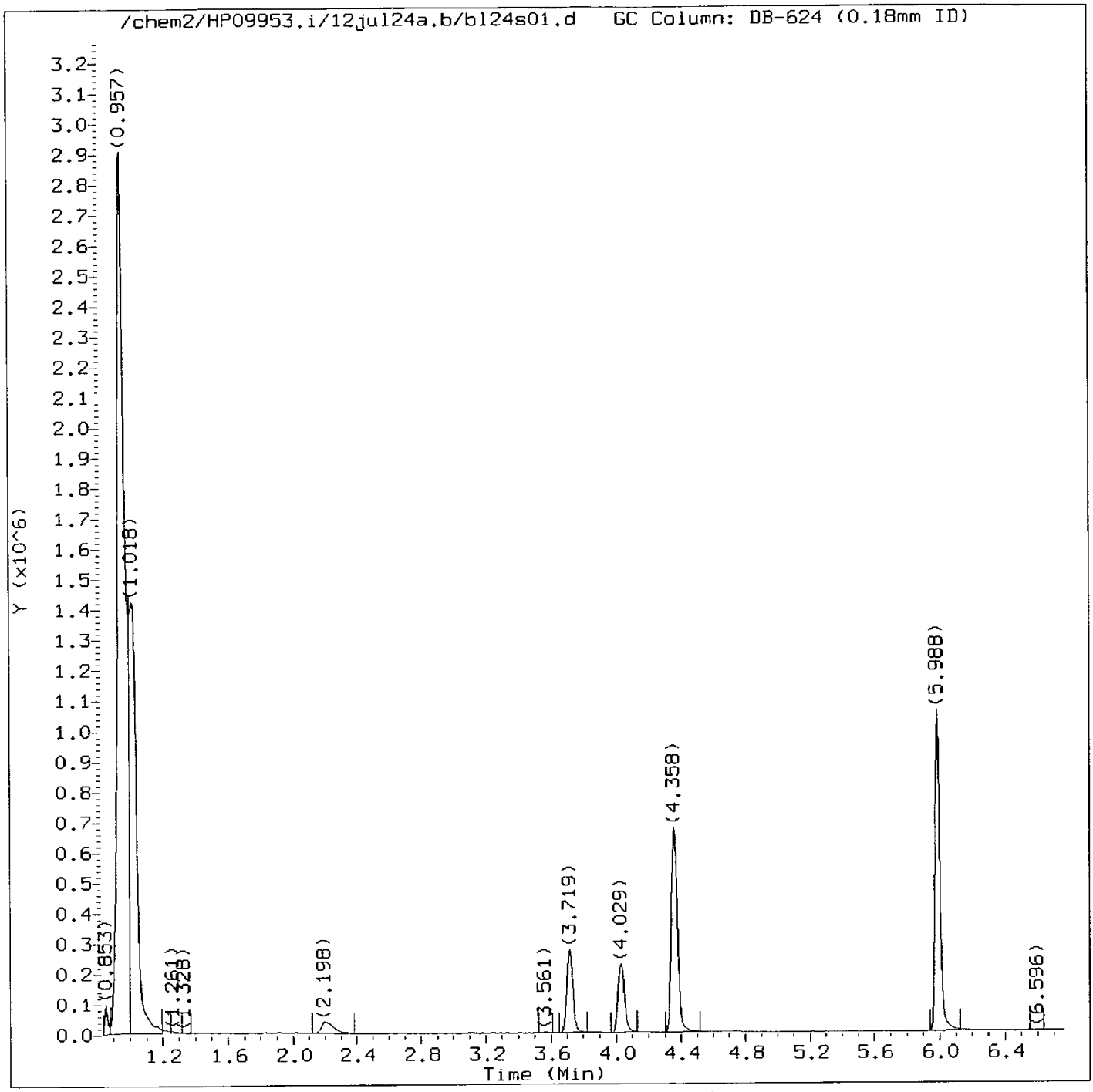
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
112) Xylene (Total)	(2)				Not Detected					1	5
113) o-Xylene	(2)				Not Detected					1	5
115) Styrene	(2)				Not Detected					1	5
116) Bromoform	(2)				Not Detected					1	5
123) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					1	5

Total number of targets = 36

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 16:39. Target 3.5 esignature user ID: kel01973

Secondary review performed and digitally signed by Abraham H. Uysal on 07/25/2012 at 14:57. Parallax ID: ahu01800

ASX73 0097



Total Ion Chromatogram (TIC)

Target Revision 3.5

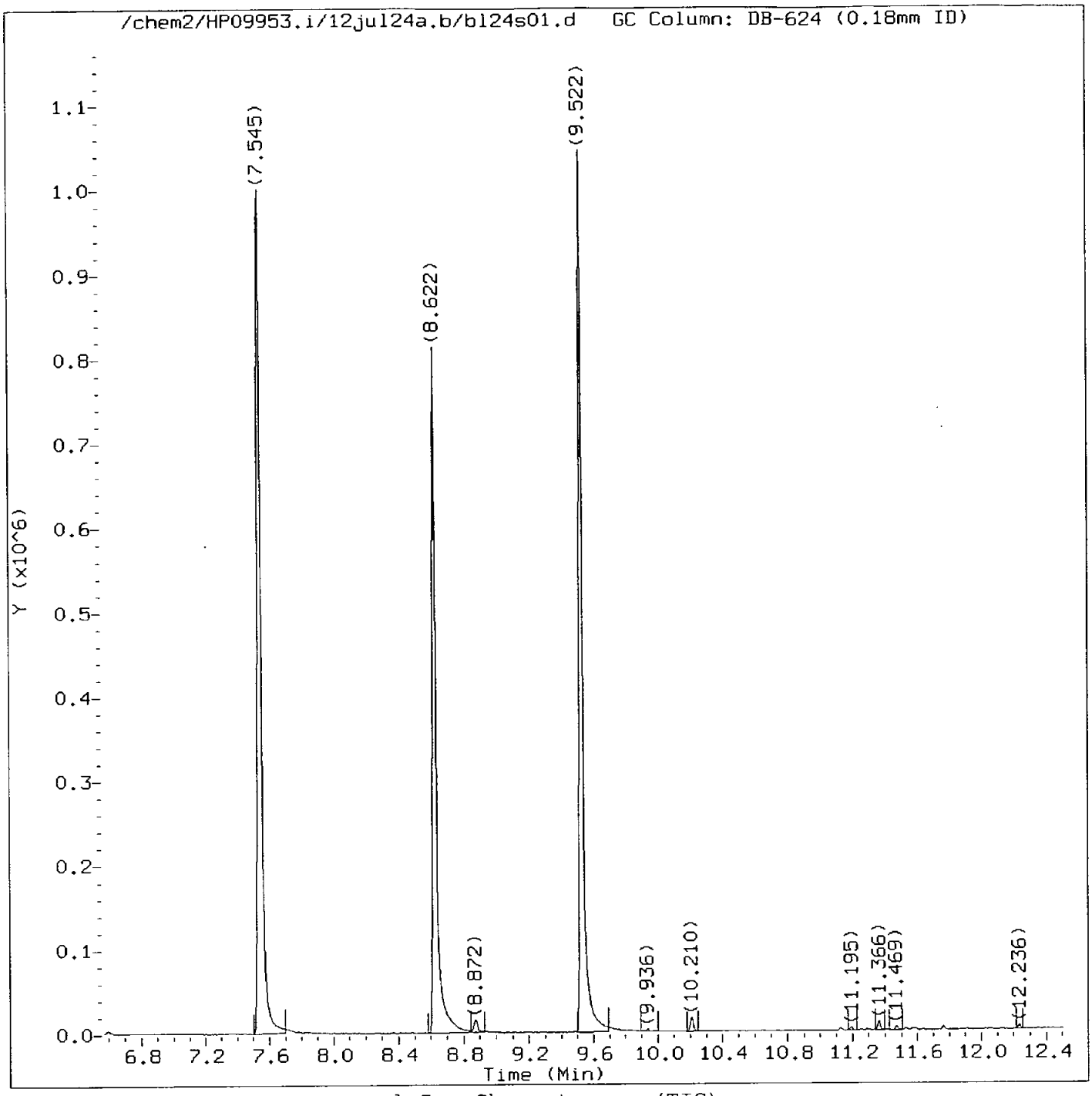
Data File: /chem2/HP09953.i/12jul24a.b/bl24s01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 15:36 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 7813
Calibration date and time: 24-JUL-2012 13:29
Date, time and analyst ID of latest file update: 24-Jul-2012 16:39 kel01973

Sample Name: 49--1 Lab Sample ID: 6721498

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 16:39.
Target 3.5 esignature user ID: kel01973

ASX73 0098



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24s01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 15:36 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 7813
Calibration date and time: 24-JUL-2012 13:29
Date, time and analyst ID of latest file update: 24-Jul-2012 16:39 kel01973

Sample Name: 49--1 Lab Sample ID: 6721498

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 16:39.
Target 3.5 esignature user ID: kel01973

ASX73 0099

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24s01.d
Injection date and time: 24-JUL-2012 15:36

Instrument ID: HP09953.i
Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m
Calibration date and time: 24-JUL-2012 13:29

Sublist used: 7813

Date, time and analyst ID of latest file update: 24-Jul-2012 16:39 kel01973

Sample Name: 49--1

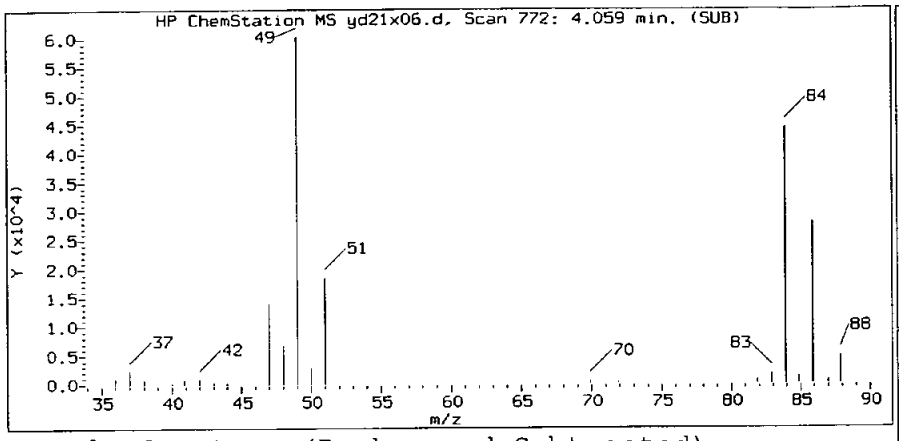
Lab Sample ID: 6721498

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
27) Methylene Chloride	(1)	2.192	84	11474	2.020
53)$Dibromofluoromethane	(1)	3.719	113	218954	49.961
62)$1,2-Dichloroethane-d4	(1)	4.035	102	49235	53.278
73)*Fluorobenzene	(1)	4.358	96	923369	50.000
90)$Toluene-d8	(2)	5.988	98	871304	52.619
106)*Chlorobenzene-d5	(2)	7.545	117	614314	50.000
120)$4-Bromofluorobenzene	(2)	8.622	95	273234	45.295
137)*1,4-Dichlorobenzene-d4	(3)	9.529	152	286922	50.000

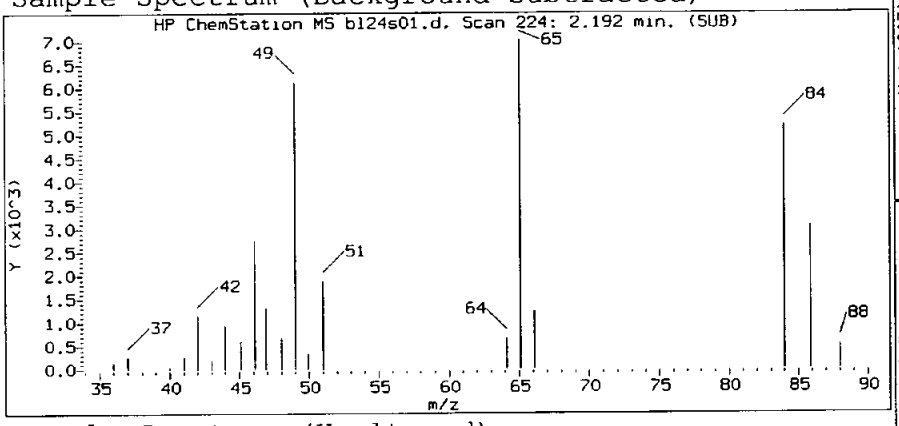
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 16:39.
Target 3.5 esignature user ID: kel01973

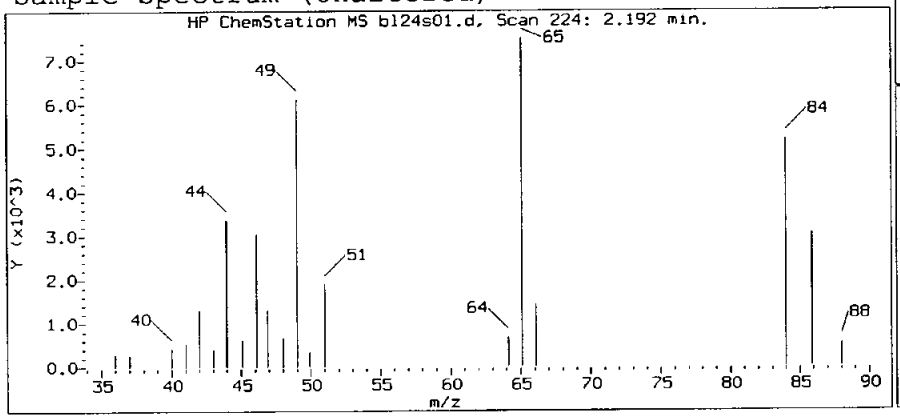
Reference Standard Spectrum for Methylene Chloride

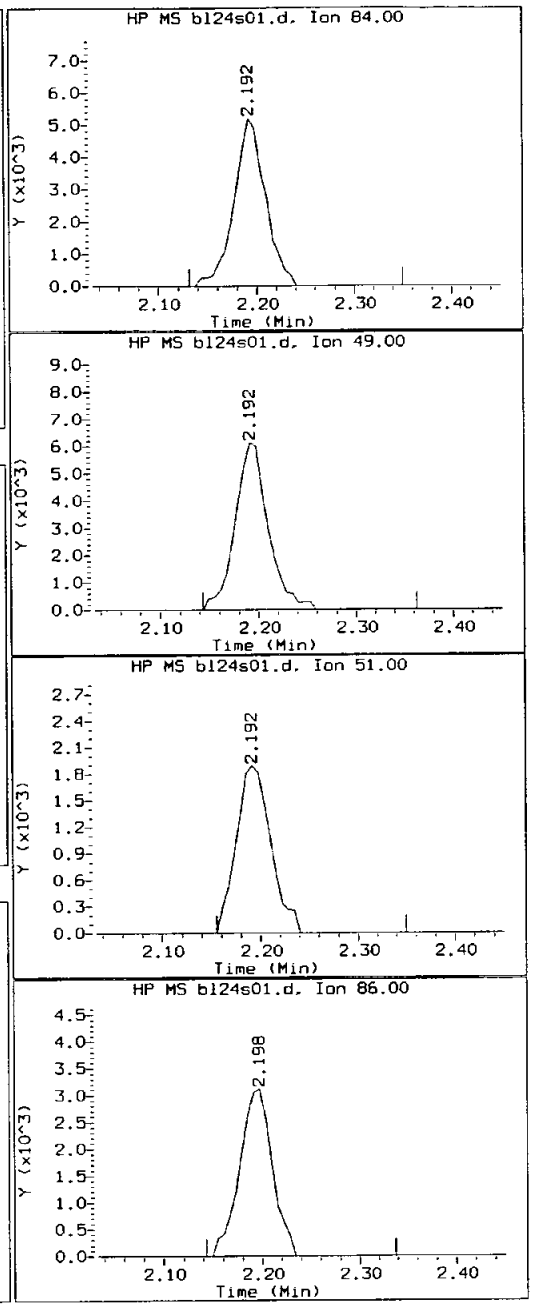


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP09953.i/12jul24a.b/bl24s01.d
Injection date and time: 24-JUL-2012 15:36

Instrument ID: HP09953.i
Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m
Calibration date and time: 24-JUL-2012 13:29

Sublist used: 7813

Date, time and analyst ID of latest file update: 24-Jul-2012 16:39 kel01973

Sample Name: 49--1

Lab Sample ID: 6721498

Compound Number	: 27
Compound Name	: Methylene Chloride
Scan Number	: 224
Retention Time (minutes)	: 2.192
Relative Retention Time	:-0.00071
Quant Ion	: 84.00
Area (flag)	: 11474
On-Column Amount (ng)	: 2.0203

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 16:39.
Target 3.5 esignature user ID: kel01973

32--1

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6721502

Data file: /chem2/HP09953.i/12jul24a.b/bl24s02.d
Data file Sample Info. Line: 32--1;6721502;2;0;;ASX73;;;bl24b02;
Date, time and analyst ID of latest file update: 24-Jul-2012 16:41 kel01973

Injection date and time: **24-JUL-2012 15:59**
Instrument ID: **HP09953.i** Batch: **B122061AA**

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/bl24b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **7813**
Calibration date and time (Last Method Edit): 24-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/bl24c01.d**

Bottle Code: **150A** Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **0.92**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5.43 g

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
73) Fluorobenzene	4.351(0.000)	579	96	863841 (-16)	50.00	
106) Chlorobenzene-d5	7.545(-0.006)	1104	117	626561 (-15)	50.00	
137) 1,4-Dichlorobenzene-d4	9.529(-0.006)	1430	152	365099 (-17)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
53) Dibromofluoromethane	(1)	3.707(0.001)	113	201260	49.088	98%		50 - 141
62) 1,2-Dichloroethane-d4	(1)	4.023(0.000)	102	44495	51.467	103%		54 - 135
90) Toluene-d8	(2)	5.988(0.001)	98	835315	49.460	99%		52 - 141
120) 4-Bromofluorobenzene	(2)	8.622(0.001)	95	300593	48.857	98%		50 - 131

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
3) Chloromethane	(1)			Not Detected					2	5
4) Vinyl Chloride	(1)			Not Detected					0.9	5
6) Bromomethane	(1)			Not Detected					2	5
7) Chloroethane	(1)			Not Detected					2	5
14) 1,1-Dichloroethene	(1)			Not Detected					0.9	5
17) Acetone	(1)			Not Detected					6	18
23) Carbon Disulfide	(1)			Not Detected					0.9	5
27) Methylene Chloride	(1)	2.186(-0.000)	84	12019	2.262	2.08		J	2	5
31) trans-1,2-Dichloroethene	(1)			Not Detected					0.9	5
37) 1,1-Dichloroethane	(1)			Not Detected					0.9	5
44) cis-1,2-Dichloroethene	(1)			Not Detected					0.9	5
46) 2-Butanone	(1)			Not Detected					4	9
52) Chloroform	(1)			Not Detected					0.9	5
55) 1,1,1-Trichloroethane	(1)			Not Detected					0.9	5
60) Carbon Tetrachloride	(1)			Not Detected					0.9	5
65) Benzene	(1)			Not Detected					0.5	5
66) 1,2-Dichloroethane	(1)			Not Detected					0.9	5
75) Trichloroethene	(1)			Not Detected					0.9	5
78) 1,2-Dichloropropane	(1)			Not Detected					0.9	5
83) Bromodichloromethane	(1)			Not Detected					0.9	5
87) cis-1,3-Dichloropropene	(1)			Not Detected					0.9	5
89) 4-Methyl-2-Pentanone	(1)			Not Detected					3	9
92) Toluene	(2)			Not Detected					0.9	5
93) trans-1,3-Dichloropropene	(2)			Not Detected					0.9	5
96) 1,1,2-Trichloroethane	(2)			Not Detected					0.9	5
97) Tetrachloroethene	(2)			Not Detected					0.9	5
100) 2-Hexanone	(2)			Not Detected					3	9
103) Dibromochloromethane	(2)			Not Detected					0.9	5
107) Chlorobenzene	(2)			Not Detected					0.9	5
109) Ethylbenzene	(2)			Not Detected					0.9	5
110) m+p-Xylene	(2)			Not Detected					0.9	5

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 16:41. Target 3.5 esignature user ID: kel01973

ASX73 0102

32--1

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6721502

Data file: /chem2/HP09953.i/12jul24a.b/bl24s02.d
Injection date and time: **24-JUL-2012 15:59**
Data file Sample Info. Line: 32--1;6721502;2;0;;ASX73;;;bl24b02;
Instrument ID: **HP09953.i** Batch: **B122061AA**
Date, time and analyst ID of latest file update: 24-Jul-2012 16:41 kel01973

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/bl24b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **7813**
Calibration date and time (Last Method Edit): 24-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/bl24c01.d**

Bottle Code: **150A** Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **0.92**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5.43 g

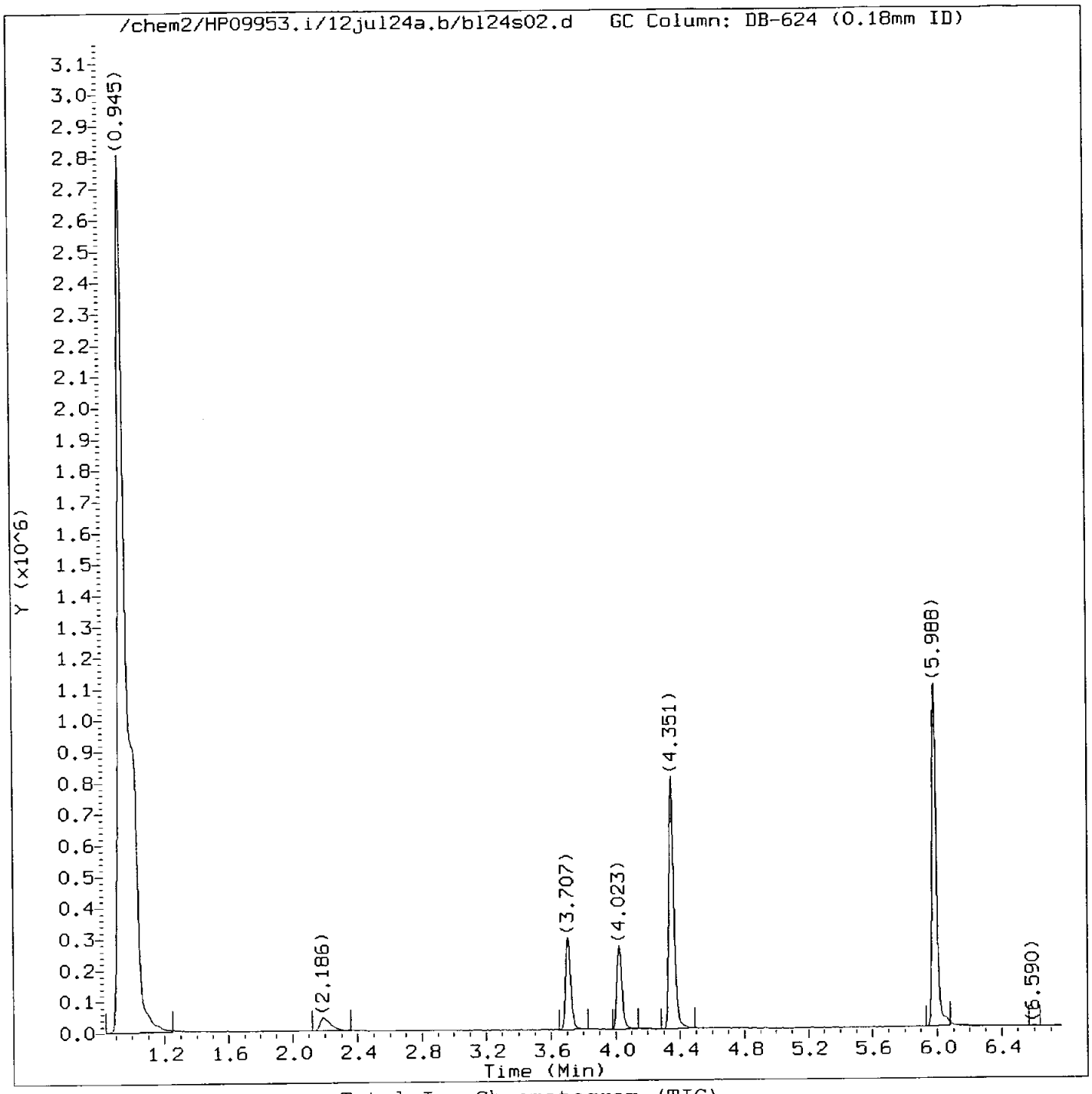
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
112) Xylene (Total)	(2)			Not Detected					0.9	5
113) o-Xylene	(2)			Not Detected					0.9	5
115) Styrene	(2)			Not Detected					0.9	5
116) Bromoform	(2)			Not Detected					0.9	5
123) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					0.9	5

Total number of targets = 36

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 16:41. Target 3.5 esignature user ID: kel01973

Secondary review performed and digitally signed by Abraham H. Uysal on 07/25/2012 at 14:57. Parallax ID: ahu01800

ASX73 0103



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24s02.d
Injection date and time: 24-JUL-2012 15:59

Instrument ID: HP09953.i
Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m
Calibration date and time: 24-JUL-2012 16:02

Sublist used: 7813

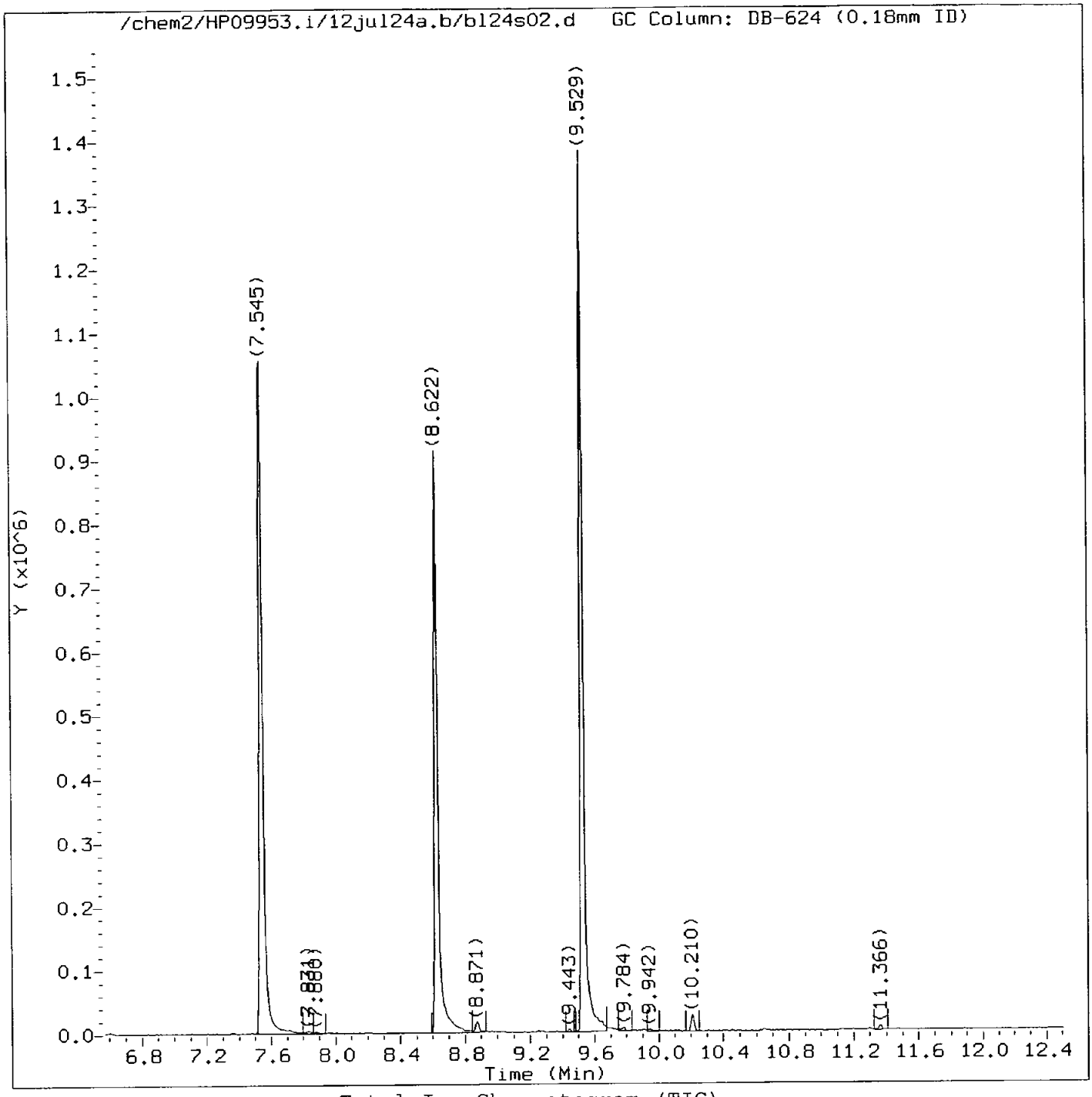
Date, time and analyst ID of latest file update: 24-Jul-2012 16:41 kel01973

Sample Name: 32--1

Lab Sample ID: 6721502

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 16:41.
Target 3.5 esignature user ID: kel01973

ASX73 0194



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24s02.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 15:59 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 7813
Calibration date and time: 24-JUL-2012 16:02
Date, time and analyst ID of latest file update: 24-Jul-2012 16:41 kel01973

Sample Name: 32--1 Lab Sample ID: 6721502

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 16:41.
Target 3.5 esignature user ID: kel01973

ASX73 0105

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24s02.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 15:59 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 7813
Calibration date and time: 24-JUL-2012 16:02
Date, time and analyst ID of latest file update: 24-Jul-2012 16:41 kel01973

Sample Name: 32--1 Lab Sample ID: 6721502

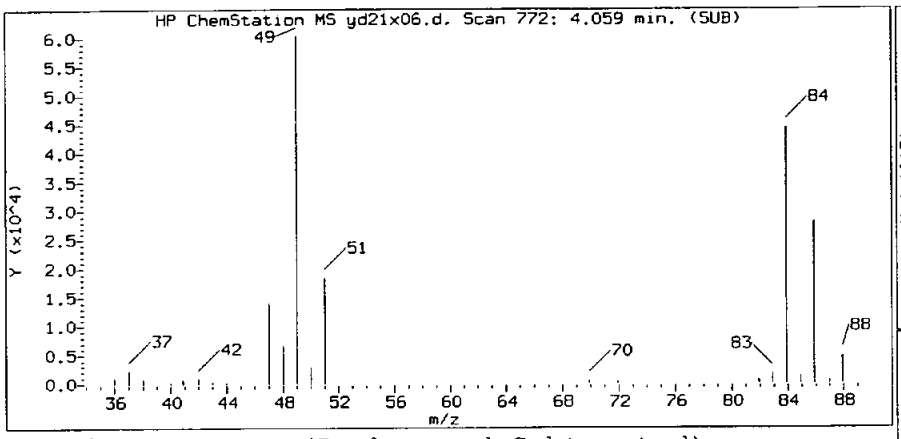
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
27) Methylene Chloride	(1)	2.186	84	12019	2.262
53)$Dibromofluoromethane	(1)	3.707	113	201260	49.088
62)$1,2-Dichloroethane-d4	(1)	4.023	102	44495	51.467
73)*Fluorobenzene	(1)	4.351	96	863841	50.000
90)$Toluene-d8	(2)	5.988	98	835315	49.460
106)*Chlorobenzene-d5	(2)	7.545	117	626561	50.000
120)$4-Bromofluorobenzene	(2)	8.622	95	300593	48.857
137)*1,4-Dichlorobenzene-d4	(3)	9.529	152	365099	50.000

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

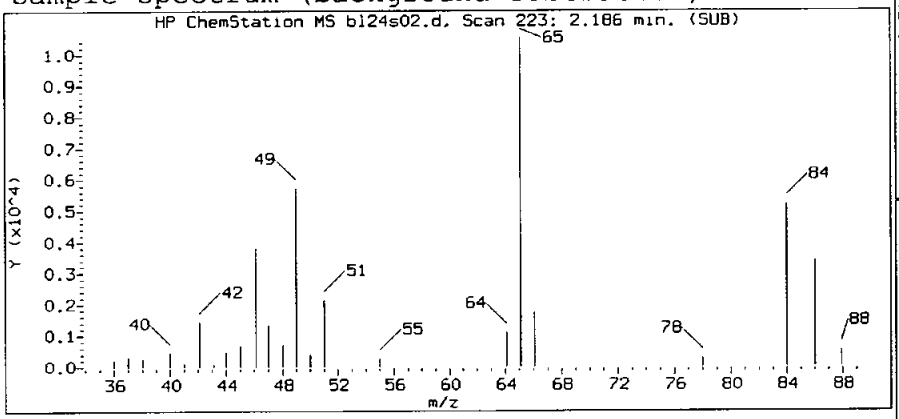
Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 16:41.
Target 3.5 esignature user ID: kel01973

ASX73 0196

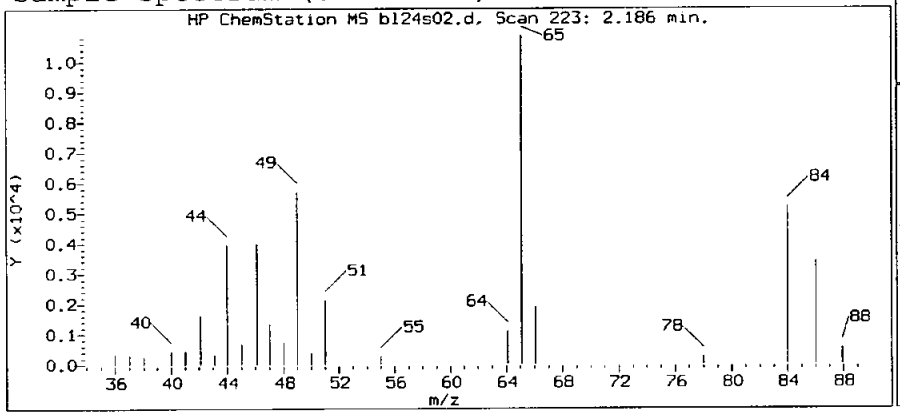
Reference Standard Spectrum for Methylene Chloride

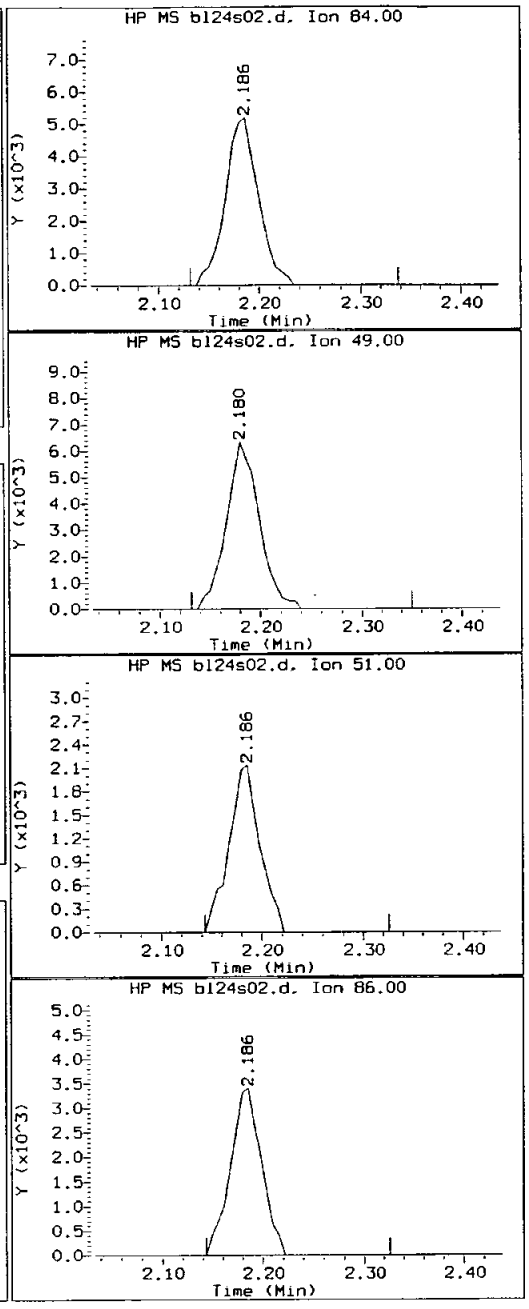


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP09953.i/12jul24a.b/bl24s02.d
Injection date and time: 24-JUL-2012 15:59

Instrument ID: HP09953.i
Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m
Calibration date and time: 24-JUL-2012 16:02

Sublist used: 7813

Date, time and analyst ID of latest file update: 24-Jul-2012 16:41 kel01973

Sample Name: 32--1

Lab Sample ID: 6721502

Compound Number : 27
Compound Name : Methylene Chloride
Scan Number : 223
Retention Time (minutes): 2.186
Relative Retention Time :-0.00001
Quant Ion : 84.00
Area (flag) : 12019
On-Column Amount (ng) : 2.2620

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 16:41.
Target 3.5 esignature user ID: kel01973

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6721504

Data file: /chem/SH08363.i/12jul18a.b/tl18s04.d
Data file Sample Info. Line: XXXXX;6721504;1;0;;;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Injection date and time: **18-JUL-2012 11:17**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **1163**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: **038A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
70) Fluorobenzene	7.633(0.007)	810	96	944944 (-8)	50.00	
107) Chlorobenzene-d5	11.101(0.000)	1283	117	638211 (-8)	50.00	
141) 1,4-Dichlorobenzene-d4	12.986(0.000)	1540	152	310195 (-12)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.753(0.000)	113	271810	50.508	101%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	7.207(0.000)	102	66037	50.597	101%		77 - 113
90) Toluene-d8	(2)	9.642(0.000)	98	863823	49.573	99%		80 - 113
124) 4-Bromofluorobenzene	(2)	12.106(0.000)	95	358654	49.751	100%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Chloromethane	(1)			Not Detected					1	5
4) Vinyl Chloride	(1)			Not Detected					1	5
7) Bromomethane	(1)			Not Detected					1	5
8) Chloroethane	(1)			Not Detected					1	5
18) 1,1-Dichloroethene	(1)			Not Detected					0.8	5
21) Acetone	(1)			Not Detected					6	20
24) Carbon Disulfide	(1)			Not Detected					1	5
27) Methylene Chloride	(1)			Not Detected					2	5
32) trans-1,2-Dichloroethene	(1)			Not Detected					0.8	5
36) 1,1-Dichloroethane	(1)			Not Detected					1	5
45) 2-Butanone	(1)			Not Detected					3	10
44) cis-1,2-Dichloroethene	(1)			Not Detected					0.8	5
52) Chloroform	(1)			Not Detected					0.8	5
55) 1,1,1-Trichloroethane	(1)			Not Detected					0.8	5
60) Carbon Tetrachloride	(1)			Not Detected					1	5
65) Benzene	(1)			Not Detected					0.5	5
66) 1,2-Dichloroethane	(1)			Not Detected					1	5
74) Trichloroethene	(1)			Not Detected					1	5
79) 1,2-Dichloropropane	(1)			Not Detected					1	5
83) Bromodichloromethane	(1)			Not Detected					1	5
87) cis-1,3-Dichloropropene	(1)			Not Detected					1	5
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3	10
93) Toluene	(2)			Not Detected					0.7	5
96) trans-1,3-Dichloropropene	(2)			Not Detected					1	5
98) 1,1,2-Trichloroethane	(2)			Not Detected					0.8	5
99) Tetrachloroethene	(2)			Not Detected					0.8	5
101) 2-Hexanone	(2)			Not Detected					3	10
103) Dibromochloromethane	(2)			Not Detected					1	5
108) Chlorobenzene	(2)			Not Detected					0.8	5
114) Ethylbenzene	(2)			Not Detected					0.8	5
115) m+p-Xylene	(2)			Not Detected					0.8	5
116) Xylene (Total)	(2)			Not Detected					0.8	5

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:16. Target 3.5 esignature user ID: sag03174

ASX73 8108

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6721504

Data file: /chem/SH08363.i/12jul18a.b/tl18s04.d
Data file Sample Info. Line: XXXXX;6721504;1;0;;;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Injection date and time: **18-JUL-2012 11:17**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **1163**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: **038A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

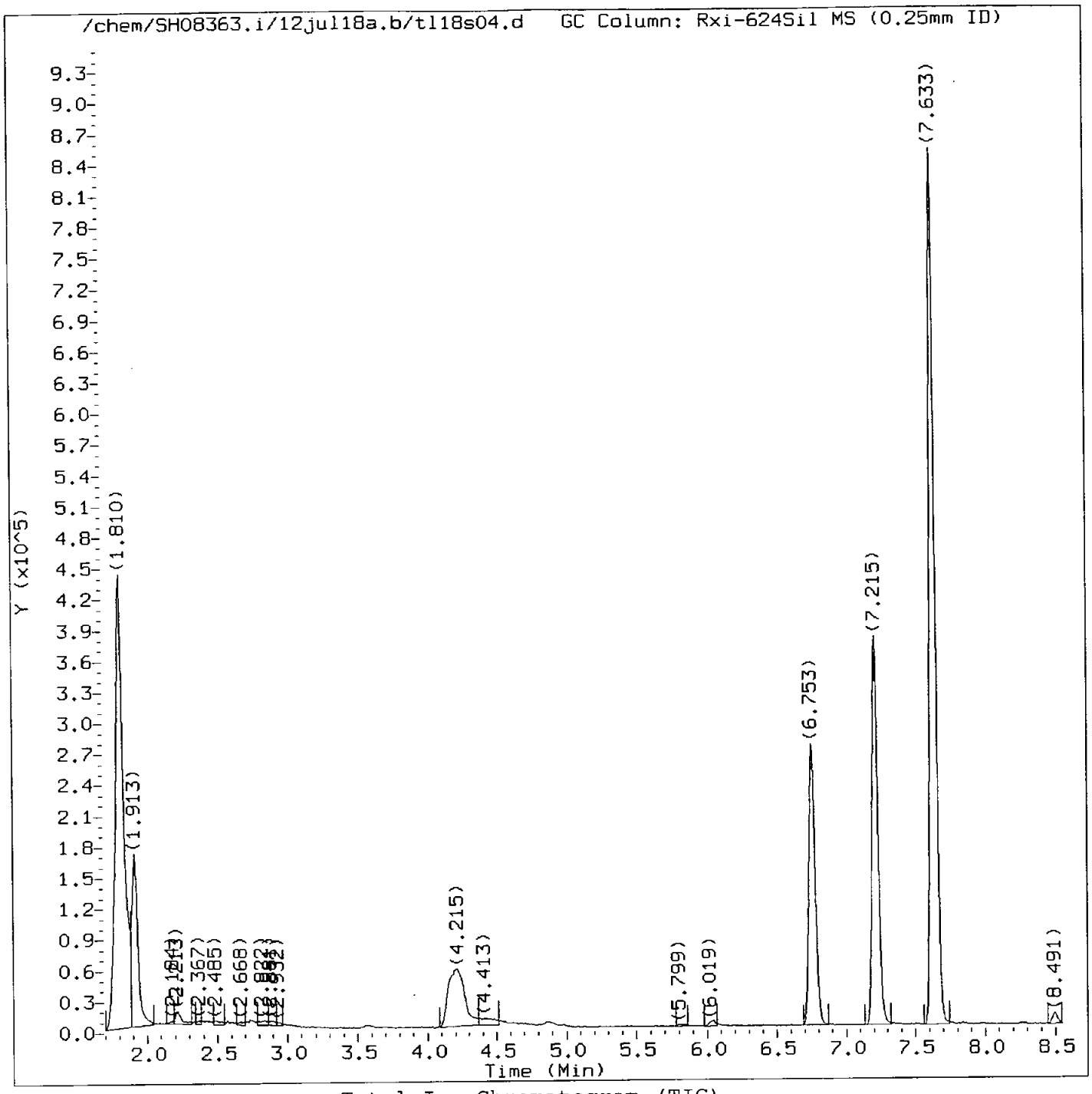
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
117) o-Xylene	(2)				Not Detected					0.8	5
119) Styrene	(2)				Not Detected					1	5
120) Bromoform	(2)				Not Detected					1	5
126) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					1	5

Total number of targets = 36

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:16. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Christine M. Ratcliff on 07/23/2012 at 12:09. Parallax ID: cmr00412

ASX73 0199



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s04.d
Injection date and time: 18-JUL-2012 11:17

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 1163

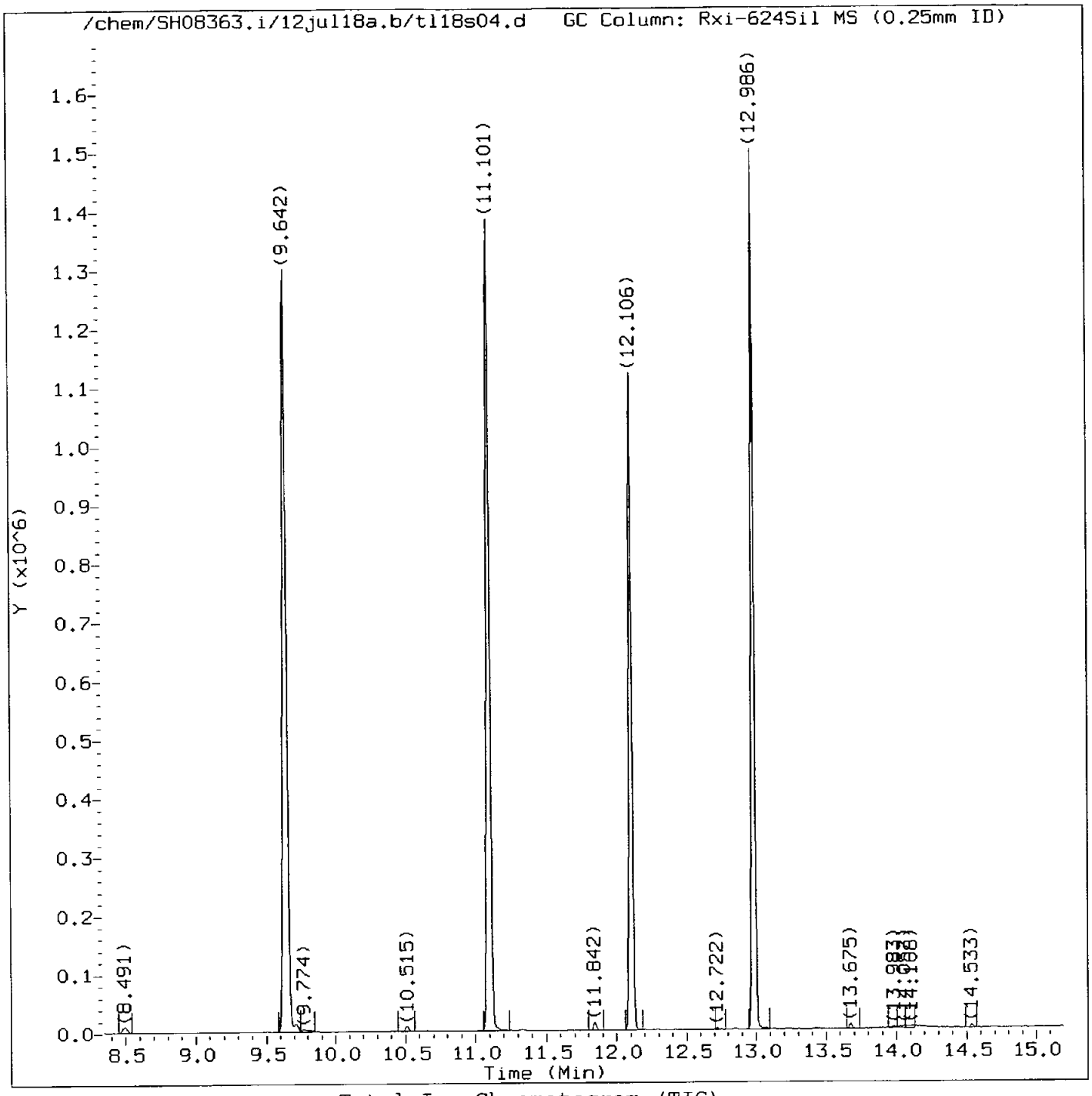
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Sample Name: XXXXX

Lab Sample ID: 6721504

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:16.
Target 3.5 esignature user ID: sag03174

ASX73 0110



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s04.d
Injection date and time: 18-JUL-2012 11:17

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 1163

Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Sample Name: XXXXX

Lab Sample ID: 6721504

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:16.
Target 3.5 esignature user ID: sag03174

ASX73 0111

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s04.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 11:17 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 1163
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Sample Name: XXXXX Lab Sample ID: 6721504

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
54)$Dibromofluoromethane	(1)	6.753	113	271810	50.508
62)$1,2-Dichloroethane-d4	(1)	7.207	102	66037	50.597
70)*Fluorobenzene	(1)	7.633	96	944944	50.000
90)$Toluene-d8	(2)	9.642	98	863823	49.573
107)*Chlorobenzene-d5	(2)	11.101	117	638211	50.000
124)$4-Bromofluorobenzene	(2)	12.106	95	358654	49.751
141)*1,4-Dichlorobenzene-d4	(3)	12.986	152	310195	50.000

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:16.
Target 3.5 esignature user ID: sag03174

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6721505

Data file: /chem/SH08363.i/12jul18a.b/tl18s05.d
Data file Sample Info. Line: XXXXX;6721505;1;0;;;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Injection date and time: **18-JUL-2012 11:41**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **1163**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: **038A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Change)	Conc. (on-column)	QC Flag
70) Fluorobenzene	7.633(0.007)	810	96	911381 (-12)	50.00	
107) Chlorobenzene-d5	11.094(0.007)	1282	117	613204 (-11)	50.00	
141) 1,4-Dichlorobenzene-d4	12.986(0.000)	1540	152	294714 (-16)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.753(0.000)	113	268612	51.752	104%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	7.207(0.000)	102	62959	50.015	100%		77 - 113
90) Toluene-d8	(2)	9.642(-0.001)	98	826632	49.373	99%		80 - 113
124) 4-Bromofluorobenzene	(2)	12.106(-0.001)	95	348400	50.299	101%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Chloromethane	(1)			Not Detected					1	5
4) Vinyl Chloride	(1)			Not Detected					1	5
7) Bromomethane	(1)			Not Detected					1	5
8) Chloroethane	(1)			Not Detected					1	5
18) 1,1-Dichloroethene	(1)			Not Detected					0.8	5
21) Acetone	(1)			Not Detected					6	20
24) Carbon Disulfide	(1)			Not Detected					1	5
27) Methylene Chloride	(1)			Not Detected					2	5
32) trans-1,2-Dichloroethene	(1)			Not Detected					0.8	5
36) 1,1-Dichloroethane	(1)			Not Detected					1	5
45) 2-Butanone	(1)			Not Detected					3	10
44) cis-1,2-Dichloroethene	(1)			Not Detected					0.8	5
52) Chloroform	(1)			Not Detected					0.8	5
55) 1,1,1-Trichloroethane	(1)			Not Detected					0.8	5
60) Carbon Tetrachloride	(1)			Not Detected					1	5
65) Benzene	(1)			Not Detected					0.5	5
66) 1,2-Dichloroethane	(1)			Not Detected					1	5
74) Trichloroethene	(1)			Not Detected					1	5
79) 1,2-Dichloropropane	(1)			Not Detected					1	5
83) Bromodichloromethane	(1)			Not Detected					1	5
87) cis-1,3-Dichloropropene	(1)			Not Detected					1	5
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3	10
93) Toluene	(2)			Not Detected					0.7	5
96) trans-1,3-Dichloropropene	(2)			Not Detected					1	5
98) 1,1,2-Trichloroethane	(2)			Not Detected					0.8	5
99) Tetrachloroethene	(2)			Not Detected					0.8	5
101) 2-Hexanone	(2)			Not Detected					3	10
103) Dibromochloromethane	(2)			Not Detected					1	5
108) Chlorobenzene	(2)			Not Detected					0.8	5
114) Ethylbenzene	(2)			Not Detected					0.8	5
115) m+p-Xylene	(2)			Not Detected					0.8	5
116) Xylene (Total)	(2)			Not Detected					0.8	5

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:16. Target 3.5 esignature user ID: sag03174

ASX73 0113

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6721505

Data file: /chem/SH08363.i/12jul18a.b/tl18s05.d
Data file Sample Info. Line: XXXXX;6721505;1;0;;;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Injection date and time: **18-JUL-2012 11:41**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **1163**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: **038A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

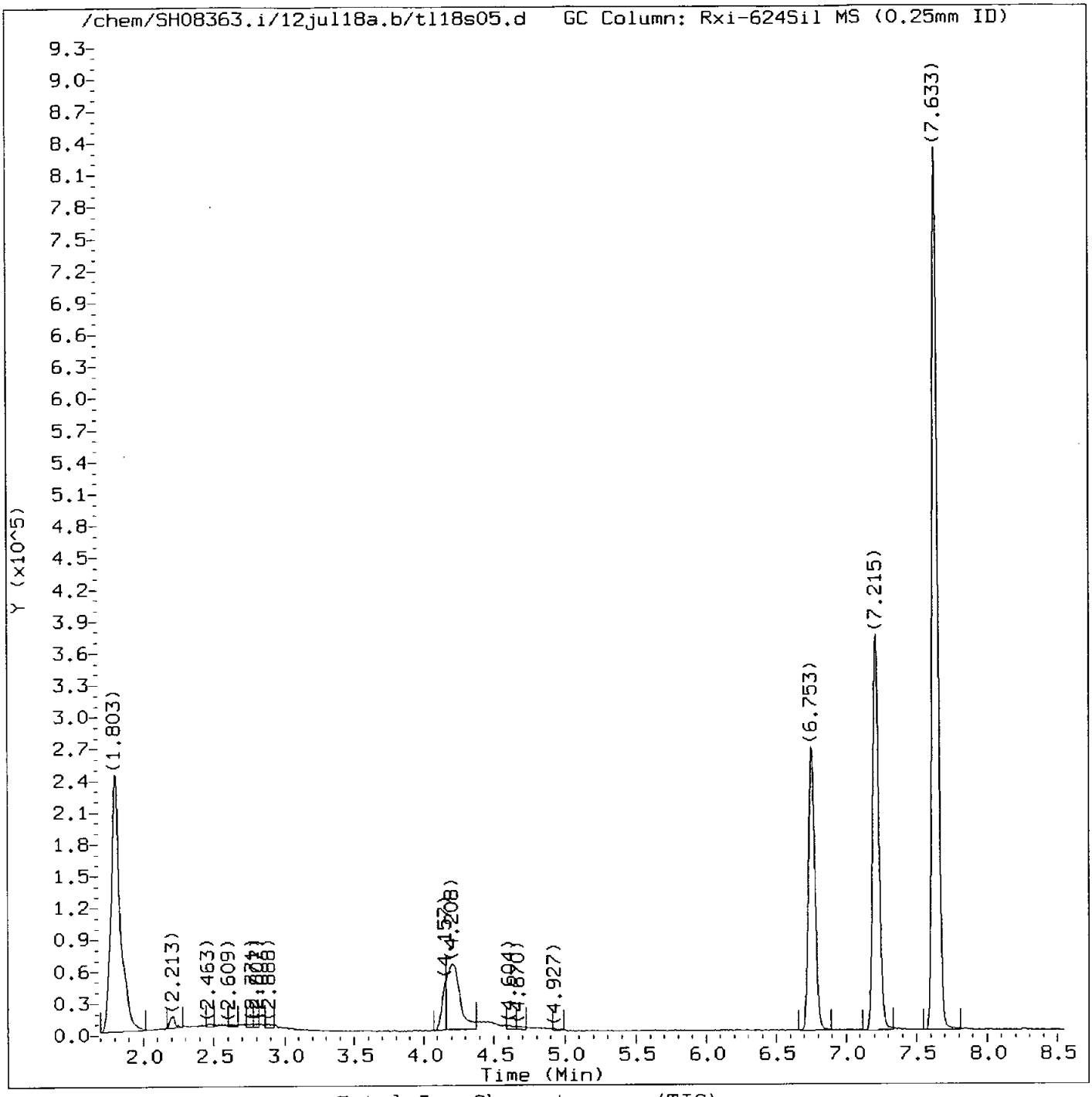
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
117) o-Xylene	(2)				Not Detected					0.8	5
119) Styrene	(2)				Not Detected					1	5
120) Bromoform	(2)				Not Detected					1	5
126) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					1	5

Total number of targets = 36

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:16. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Christine M. Ratcliff on 07/23/2012 at 12:09. Parallax ID: cmr00412

ASX73 0114



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s05.d
Injection date and time: 18-JUL-2012 11:41

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 1163

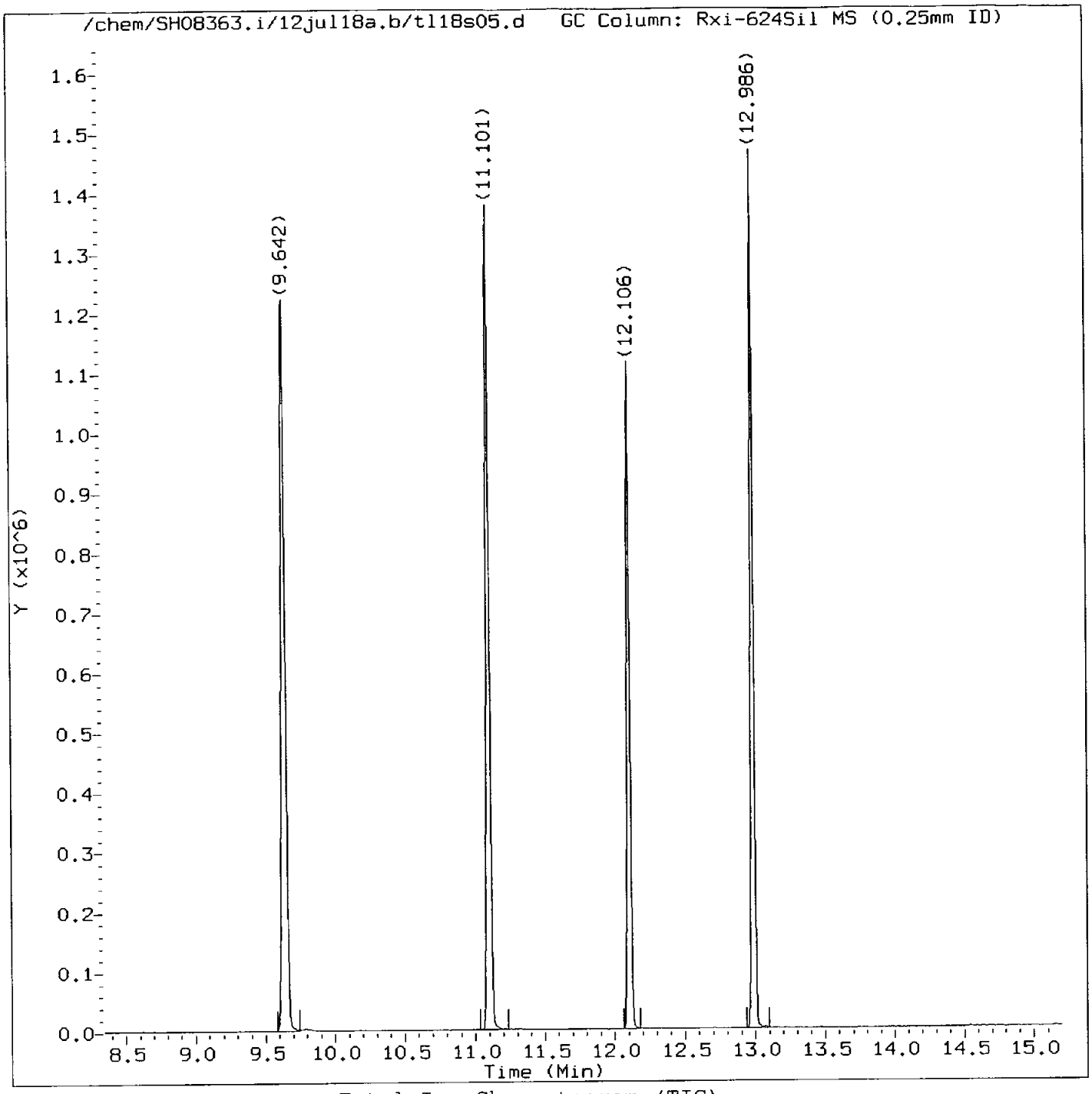
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Sample Name: XXXXX

Lab Sample ID: 6721505

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:16.
Target 3.5 esignature user ID: sag03174

ASX73 0125



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s05.d
Injection date and time: 18-JUL-2012 11:41

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 1163

Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Sample Name: XXXXX

Lab Sample ID: 6721505

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:16.
Target 3.5 esignature user ID: sag03174

ASX73 8116

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s05.d
Injection date and time: 18-JUL-2012 11:41

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Sublist used: 1163

Sample Name: XXXXX

Lab Sample ID: 6721505

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
54)$Dibromofluoromethane	(1)	6.753	113	268612	51.752
62)$1,2-Dichloroethane-d4	(1)	7.207	102	62959	50.015
70)*Fluorobenzene	(1)	7.633	96	911381	50.000
90)$Toluene-d8	(2)	9.642	98	826632	49.373
107)*Chlorobenzene-d5	(2)	11.094	117	613204	50.000
124)$4-Bromofluorobenzene	(2)	12.106	95	348400	50.299
141)*1,4-Dichlorobenzene-d4	(3)	12.986	152	294714	50.000

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:16.
Target 3.5 esignature user ID: sag03174

ASX73 8117

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6721506

Data file: /chem/SH08363.i/12jul18a.b/tl18s06.d
Data file Sample Info. Line: XXXXX;6721506;1;0;;;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Injection date and time: **18-JUL-2012 12:05**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **1163**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: **038A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
70) Fluorobenzene	7.633(0.007)	810	96	850640 (-17)	50.00	
107) Chlorobenzene-d5	11.101(0.000)	1283	117	567963 (-18)	50.00	
141) 1,4-Dichlorobenzene-d4	12.986(0.000)	1540	152	273950 (-22)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.753(0.000)	113	247382	51.065	102%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	7.215(-0.001)	102	59067	50.274	101%		77 - 113
90) Toluene-d8	(2)	9.635(0.001)	98	773346	49.870	100%		80 - 113
124) 4-Bromofluorobenzene	(2)	12.106(0.000)	95	320272	49.921	100%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Chloromethane	(1)			Not Detected					1	5
4) Vinyl Chloride	(1)			Not Detected					1	5
7) Bromomethane	(1)			Not Detected					1	5
8) Chloroethane	(1)			Not Detected					1	5
18) 1,1-Dichloroethene	(1)			Not Detected					0.8	5
21) Acetone	(1)			Not Detected					6	20
24) Carbon Disulfide	(1)			Not Detected					1	5
27) Methylene Chloride	(1)			Not Detected					2	5
32) trans-1,2-Dichloroethene	(1)			Not Detected					0.8	5
36) 1,1-Dichloroethane	(1)			Not Detected					1	5
45) 2-Butanone	(1)			Not Detected					3	10
44) cis-1,2-Dichloroethene	(1)			Not Detected					0.8	5
52) Chloroform	(1)			Not Detected					0.8	5
55) 1,1,1-Trichloroethane	(1)			Not Detected					0.8	5
60) Carbon Tetrachloride	(1)			Not Detected					1	5
65) Benzene	(1)			Not Detected					0.5	5
66) 1,2-Dichloroethane	(1)			Not Detected					1	5
74) Trichloroethene	(1)			Not Detected					1	5
79) 1,2-Dichloropropane	(1)			Not Detected					1	5
83) Bromodichloromethane	(1)			Not Detected					1	5
87) cis-1,3-Dichloropropene	(1)			Not Detected					1	5
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3	10
93) Toluene	(2)			Not Detected					0.7	5
96) trans-1,3-Dichloropropene	(2)			Not Detected					1	5
98) 1,1,2-Trichloroethane	(2)			Not Detected					0.8	5
99) Tetrachloroethene	(2)			Not Detected					0.8	5
101) 2-Hexanone	(2)			Not Detected					3	10
103) Dibromochloromethane	(2)			Not Detected					1	5
108) Chlorobenzene	(2)			Not Detected					0.8	5
114) Ethylbenzene	(2)			Not Detected					0.8	5
115) m+p-Xylene	(2)			Not Detected					0.8	5
116) Xylene (Total)	(2)			Not Detected					0.8	5

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:16. Target 3.5 esignature user ID: sag03174

ASX73 8118

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6721506

Data file: /chem/SH08363.i/12jul18a.b/tl18s06.d
Data file Sample Info. Line: XXXXX;6721506;1;0;;;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Injection date and time: **18-JUL-2012 12:05**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **1163**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: **038A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

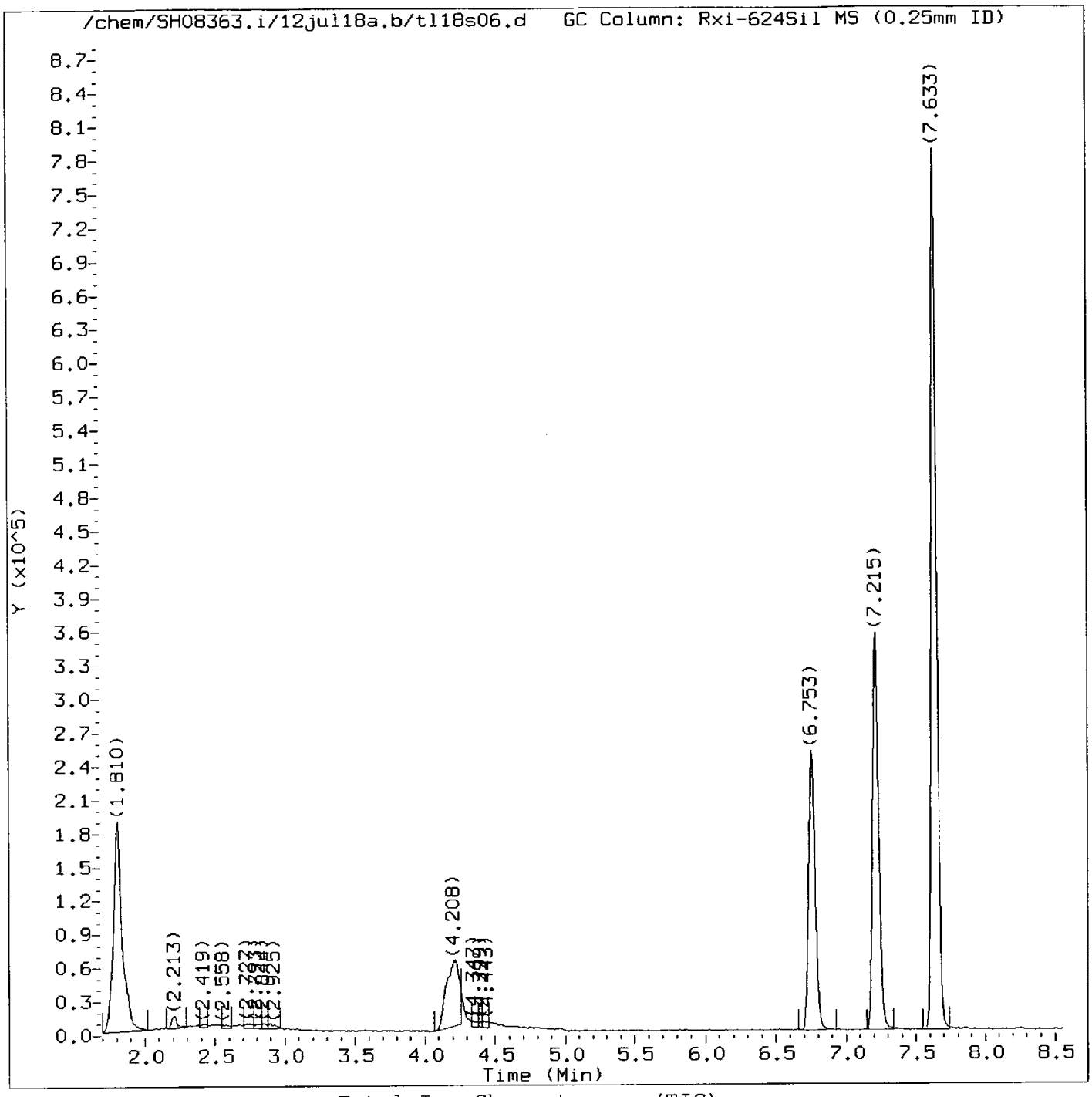
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
117) o-Xylene	(2)				Not Detected					0.8	5
119) Styrene	(2)				Not Detected					1	5
120) Bromoform	(2)				Not Detected					1	5
126) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					1	5

Total number of targets = 36

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:16. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Christine M. Ratcliff on 07/23/2012 at 12:09. Parallax ID: cmr00412

ASX73 0119



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s06.d
Injection date and time: 18-JUL-2012 12:05

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 1163

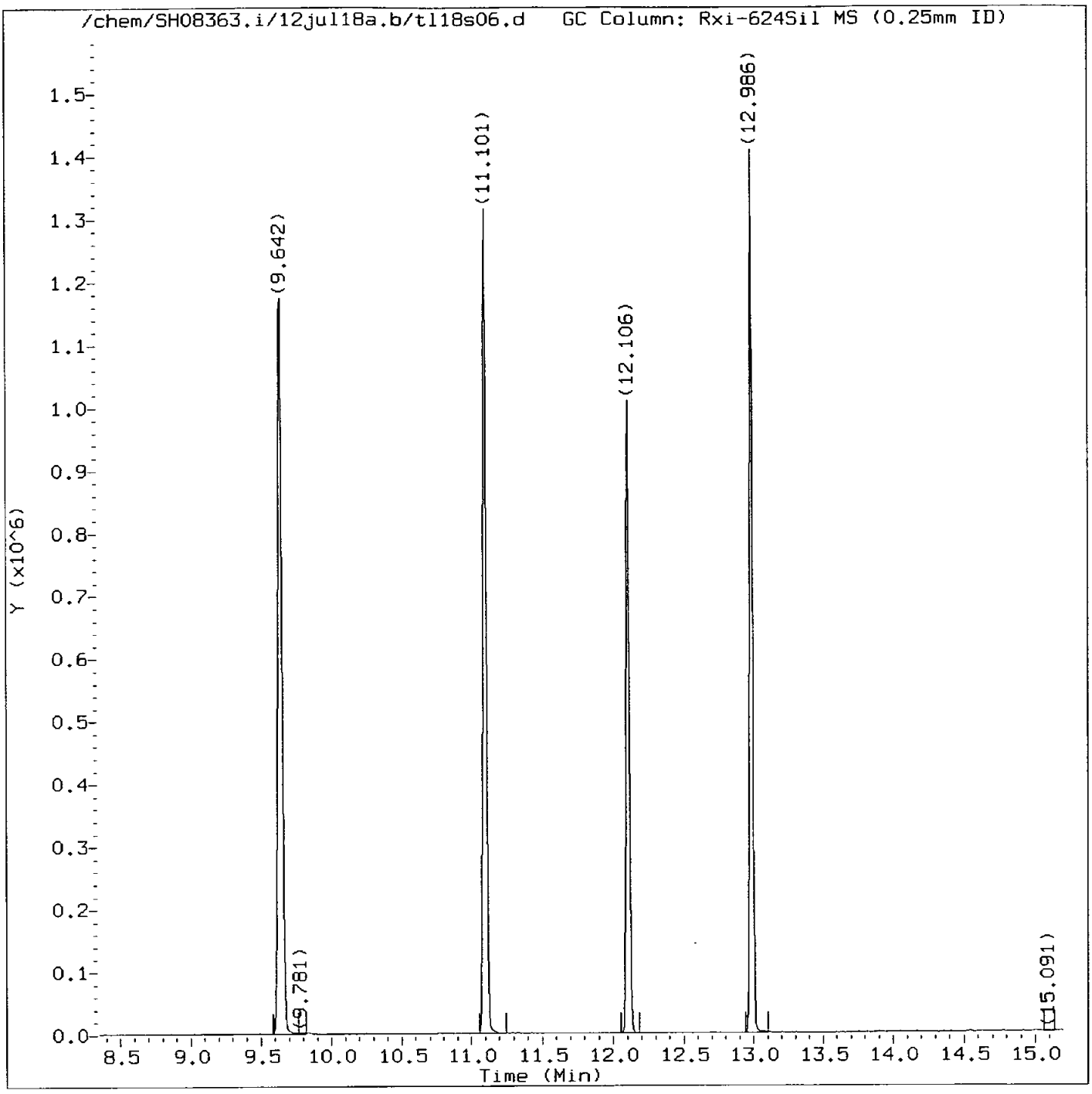
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Sample Name: XXXXX

Lab Sample ID: 6721506

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:16.
Target 3.5 esignature user ID: sag03174

ASX73 0120



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s06.d
Injection date and time: 18-JUL-2012 12:05

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 1163

Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Sample Name: XXXXX

Lab Sample ID: 6721506

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:16.
Target 3.5 esignature user ID: sag03174

ASX73 0121

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s06.d
Injection date and time: 18-JUL-2012 12:05

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:15 sag03174

Sublist used: 1163

Sample Name: XXXXX

Lab Sample ID: 6721506

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
54)$Dibromofluoromethane	(1)	6.753	113	247382	51.065
62)$1,2-Dichloroethane-d4	(1)	7.215	102	59067	50.274
70)*Fluorobenzene	(1)	7.633	96	850640	50.000
90)$Toluene-d8	(2)	9.635	98	773346	49.870
107)*Chlorobenzene-d5	(2)	11.101	117	567963	50.000
124)$4-Bromofluorobenzene	(2)	12.106	95	320272	49.921
141)*1,4-Dichlorobenzene-d4	(3)	12.986	152	273950	50.000

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:16.
Target 3.5 esignature user ID: sag03174

Standards Data

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09953 **HP #24**

** Shift #1 Analyst: ADS ** Shift #2 Analyst: _____ ** Shift #3 Analyst: _____ *

Comment Code:

R	= Reinjection necessary	X	= Sample sent to be reextracted
S	= Surrogate problem	I	= Internal Standard problem
NU	= Not used	F	= Further dilution required
MR	= Meets requirements	IUO	= Internal use only
Cz	= Confirms z, (z = S, I or X)	T	= Injected outside valid tune period

Other problems or comments are as follows:

_____

_____

_____

_____

Data Directory Path is - C:\MSDChem\1\data\12JUL19A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
BL19T01.D	BFB MAR28-12	50ug BFB	19 Jul 2012	09:20			MR
BL19I01.D	VSTD300	VSTD300	19 Jul 2012	09:42			MR
BL19I02.D	VSTD100	VSTD100	19 Jul 2012	10:17			MR
BL19I03.D	VSTD050	VSTD050	19 Jul 2012	11:01			MR
BL19I04.D	VSTD020	VSTD020	19 Jul 2012	11:23			MR
BL19I05.D	VSTD010	VSTD010	19 Jul 2012	11:49			MR
BL19I06.D	VSTD004	VSTD004	19 Jul 2012	12:14			MR
BL19M01.D	MDL001	MDL001	19 Jul 2012	12:37			MR
BL19V01.D	LGBICV	LGBICV	19 Jul 2012	13:01			MR

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09953 **HP #24**

** Shift #1 Analyst:_____ ** Shift #2 Analyst:_____ ** Shift #3 Analyst:___SAS____ *

Comment Code: R = Reinjection necessary X = Sample sent to be reextracted

S = Surrogate problem I = Internal Standard problem

NU = Not used F = Further dilution required

MR = Meets requirements IUO = Internal use only

Cz = Confirms z, (z = S, I or X) T = Injected outside valid tune period

Other problems or comments are as follows:

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Data Directory Path is - C:\MSDChem\1\data\12JUL24A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
BL24T01.D	BFB MAR28-12	50ug BFB	24 Jul 2012	09:54			MR
BL24C01.D	VSTD050	VSTD050	24 Jul 2012	10:18	B122061AA		MR
BL24C02.D	VSTD050	VSTD050	24 Jul 2012	10:41	B122061AA		MR
BL24B01.D	VBLKB63	VBLKB63	24 Jul 2012	11:03	B122061AA		NU
BL24B02.D	VBLKB63	VBLKB63	24 Jul 2012	11:25	B122061AA		MR
BL24L01.D	LCSB63	LCSB63	24 Jul 2012	11:56	B122061AA		MR
BL24L02.D	LCSB64	LCSB64	24 Jul 2012	12:45	B122061AA		MR
BL24L03.D	LCDB64	LCDB64	24 Jul 2012	13:07	B122061AA		MR
BL24L04.D	LCDB64	LCDB64	24 Jul 2012	14:20	B122061AA		MR
BL24S01.D	49--1	6721498	24 Jul 2012	15:36	B122061AA		MR
BL24S02.D	32--1	6721502	24 Jul 2012	15:59	B122061AA		MR
BL24S03.D	301-1	6727926	24 Jul 2012	16:22	B122061AA		MR
BL24S04.D	301-2	6727927	24 Jul 2012	16:55	B122061AA		MR
BL24S05.D	302-1	6727928	24 Jul 2012	17:17	B122061AA		MR
BL24S06.D	GC318RE	6722441RE	24 Jul 2012	17:40	B122061AA		C
BL24S07.D	B6-7-	6723751	24 Jul 2012	18:02	B122061AA		MR
BL24S08.D	B6-13	6723752	24 Jul 2012	18:25	B122061AA		F
BL24S09.D	B9-14	6723748	24 Jul 2012	18:47	B122061AA		NU
BL24S10.D	B9-18	6723749	24 Jul 2012	19:10	B122061AA		MR
BL24S11.D	B15-5	6723753	24 Jul 2012	19:32	B122061AA		MR
BL24S13.D	LA101	6723694	24 Jul 2012	19:58	B122061AA		NU
BL24S14.D	LA102	6723695	24 Jul 2012	20:20	B122061AA		I
BL24S15.D	LA102MS	6723696MS	24 Jul 2012	20:43	B122061AA		MR
BL24S16.D	LA102MSD	6723697MSD	24 Jul 2012	21:05	B122061AA		MR
BL24S17.D	LA103	6723699	24 Jul 2012	21:27	B122061AA		I
BL24S18.D	LAFD1	6723700	24 Jul 2012	21:51	B122061AA		MR
BL24S23.D	VSTD050	VST050	24 Jul 2012	22:13	B122061AA		MR
BL24X02.D	VBLKB63	VBLKB63	24 Jul 2012	23:16	B122061AA		NU

Lancaster Laboratories
Runlog for Shimadzu GC/MS System SH08363 **SH #02**

** Shift #1 Analyst:____LCP____** Shift #2 Analyst:_____** Shift #3 Analyst:_____*

Comment Code:

R	= Reinjection necessary	X	= Sample sent to be reextracted
S	= Surrogate problem	I	= Internal Standard problem
NU	= Not used	F	= Further dilution required
MR	= Meets requirements	IUO	= Internal use only
Cz	= Confirms z, (z = S, I or X)	T	= Injected outside valid tune period

Other problems or comments are as follows:

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Data Directory Path is - d:\Data\12MAY17c\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
TY17T03.D	BFBMAR28-12	50NG BFB	17 MAY 12	13:06			MR
TY17I01.D	VSTD300	VSTD300	17 MAY 12	13:35			MR
TY17I02.D	VSTD100	VSTD100	17 MAY 12	13:59			MR
TY17I03.D	VSTD050	VSTD050	17 MAY 12	14:23			MR
TY17I04.D	VSTD020	VSTD020	17 MAY 12	14:47			MR
TY17I05.D	VSTD010	VSTD010	17 MAY 12	15:11			MR
TY17I06.D	VSTD004	VSTD004	17 MAY 12	15:34			MR
TY17I07.D	VSTD001	VSTD001	17 MAY 12	15:58			MR
TY17M01.D	0.5PPB MDL	0.5PPB MDL	17 MAY 12	16:22			MR
TY17S21.D	LCST24	LCST24	17 MAY 12	16:46	T120932AA		NU

Lancaster Laboratories
Runlog for Shimadzu GC/MS System SH08363 **SH #02**

** Shift #1 Analyst:____LCP_____** Shift #2 Analyst:_____** Shift #3 Analyst:_____*

Comment Code:

R	= Reinjection necessary	X	= Sample sent to be reextracted
S	= Surrogate problem	I	= Internal Standard problem
NU	= Not used	F	= Further dilution required
MR	= Meets requirements	IUO	= Internal use only
Cz	= Confirms z, (z = S, I or X)	T	= Injected outside valid tune period

Other problems or comments are as follows:

_____

_____

_____

_____

Data Directory Path is - d:\Data\12MAY18a\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
TY18T01.D	BFBMAR28-12	50NG BFB	18 MAY 12	11:10			MR
TY18C01.D	VSTD050	VSTD050	18 MAY 12	11:47			MR
TY18B01.D	VBLKT82	VBLKT82	18 MAY 12	12:12	T121391AA		MR
TY18S01.D	LCST82	LCST82	18 MAY 12	12:36	T121391AA		MR

Lancaster Laboratories
Runlog for Shimadzu GC/MS System SH08363 **SH #02**

** Shift #1 Analyst:___LCP_____** Shift #2 Analyst:____SG_____** Shift #3 Analyst:_____*

Comment Code:

R =	Reinjection necessary	X =	Sample sent to be reextracted
S =	Surrogate problem	I =	Internal Standard problem
NU =	Not used	F =	Further dilution required
MR =	Meets requirements	IUO =	Internal use only
Cz =	Confirms z, (z = S, I or X)	T =	Injected outside valid tune period

Other problems or comments are as follows:

_____8260 WATERS _____

*_____*MANUALLY EDITED_____*

_____

_____

Data Directory Path is - d:\Data\12jul18A\

FILE	SAMPLE	LLI#		DATE	TIME	BATCH	D.F.	NOTES
TL18T01.D	BFBMAR28-12	50NG BFB		18 JUL 12	7:55			NU
TL18T02.D	BFBMAR28-12	50NG BFB		18 JUL 12	8:17			NU
TL18T03.D	BFBMAR28-12	50NG BFB		18 JUL 12	8:33			MR
TL18C01.D	VSTD050	VSTD050		18 JUL 12	9:01			MR
TL18B01.D	VBLKT71	VBLKT71	*	18 JUL 12	9:25	T122001AA		NU
TL18S01.D	LCST71	LCST71	*	18 JUL 12	9:49	T122001AA		MR
TL18S02.D	LCDT71	LCDT71	*	18 JUL 12	10:13	T122001AA		MR
TL18S03.D	VBLKT71	VBLKT71	*	18 JUL 12	10:52	T122001AA		MR
TL18S04.D	XXXXX	6721504	*	18 JUL 12	11:17	T122001AA		MR
TL18S05.D	XXXXX	6721505	*	18 JUL 12	11:41	T122001AA		MR
TL18S06.D	XXXXX	6721506	*	18 JUL 12	12:05	T122001AA		MR
TL18S07.D	XXXXX	6722708	*	18 JUL 12	12:29	T122001AA		MR
TL18S08.D	XXXXX	6722709	*	18 JUL 12	12:53	T122001AA		MR
TL18S09.D	XXXXX	6722557	*	18 JUL 12	13:17	T122001AA		MR
TL18S10.D	XXXXX	6722558	*	18 JUL 12	13:41	T122001AA		MR
TL18S11.D	XXXXX	6722735	*	18 JUL 12	14:05	T122001AA		MR
TL18S12.D	XXXXX	6722736	*	18 JUL 12	14:29	T122001AA		MR
TL18S13.D	XXXXX	6722732	*	18 JUL 12	14:54	T122001AA		MR
TL18S14.D	XXXXXMS	6722732MS		18 JUL 12	15:18	T122001AA		MR
TL18S15.D	XXXXX	6722733		18 JUL 12	15:41	T122001AA		MR
TL18S16.D	XXXXX	6722734		18 JUL 12	16:39	T122001AA		F
TL18S17.D	XXXXXDL	6722734DL		18 JUL 12	17:03	T122001AA	10	MR
TL18S18.D	XXXXX	6722706		18 JUL 12	17:27	T122001AA		F
TL18S19.D	XXXXXDL	6722706DL		18 JUL 12	17:51	T122001AA	10	MR
TL18S20.D	XXXXX	6722889		18 JUL 12	18:15	T122001AA	5	NU
TL18S21.D	XXXXX	6722191		18 JUL 12	18:39	T122001AA		MR
TL18S22.D	XXXXX	6712889		18 JUL 12	19:05	T122001AA	10	F
TL18S23.D	XXXXXDL	6712889DL		18 JUL 12	19:29	T122001AA	100	MR
TL18S24.D	CBLK	CBLK		18 JUL 12	19:57	T122001AA		NU
TL18S25.D	VSTD050	VSTD050		18 JUL 12	20:21			MR

Data File: /chem2/HP09953.i/12jul19a.b/bl19t01.d

Date : 19-JUL-2012 09:20

Client ID: BFB MAR28-12

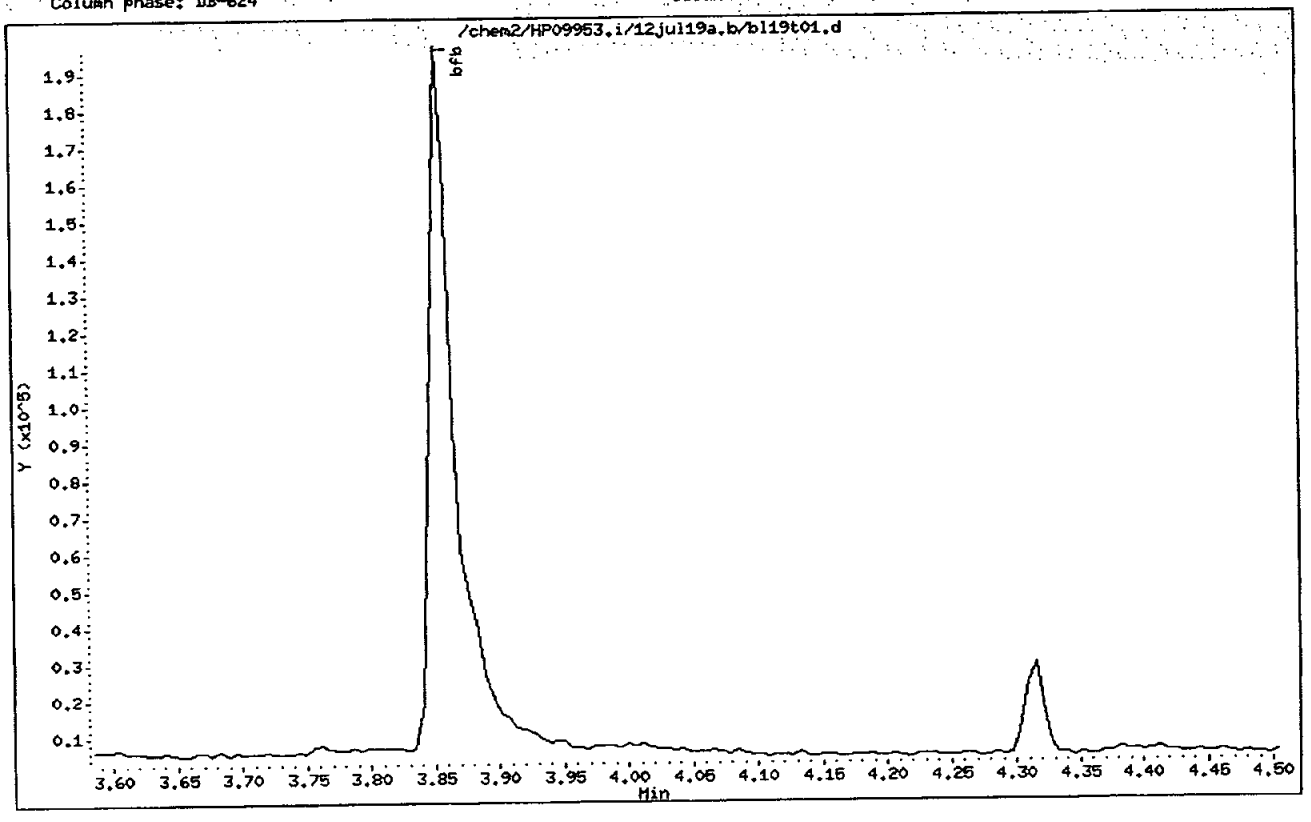
Instrument: HP09953.i

Sample Info: BFB MAR28-12;50ug BFB;2;3;;;;;;

Operator: ADS01731

Column phase: DB-624

Column diameter: 0.18



Digitally signed by Angela D. Sneeringer on 07/19/2012 at 13:19.
Target 3.5 esignature user ID: ads01731

Data File: /chem2/HP09953.i/12jul19a.b/bl19t01.d

Date : 19-JUL-2012 09:20

Client ID: BFB MAR28-12

Instrument: HP09953.i

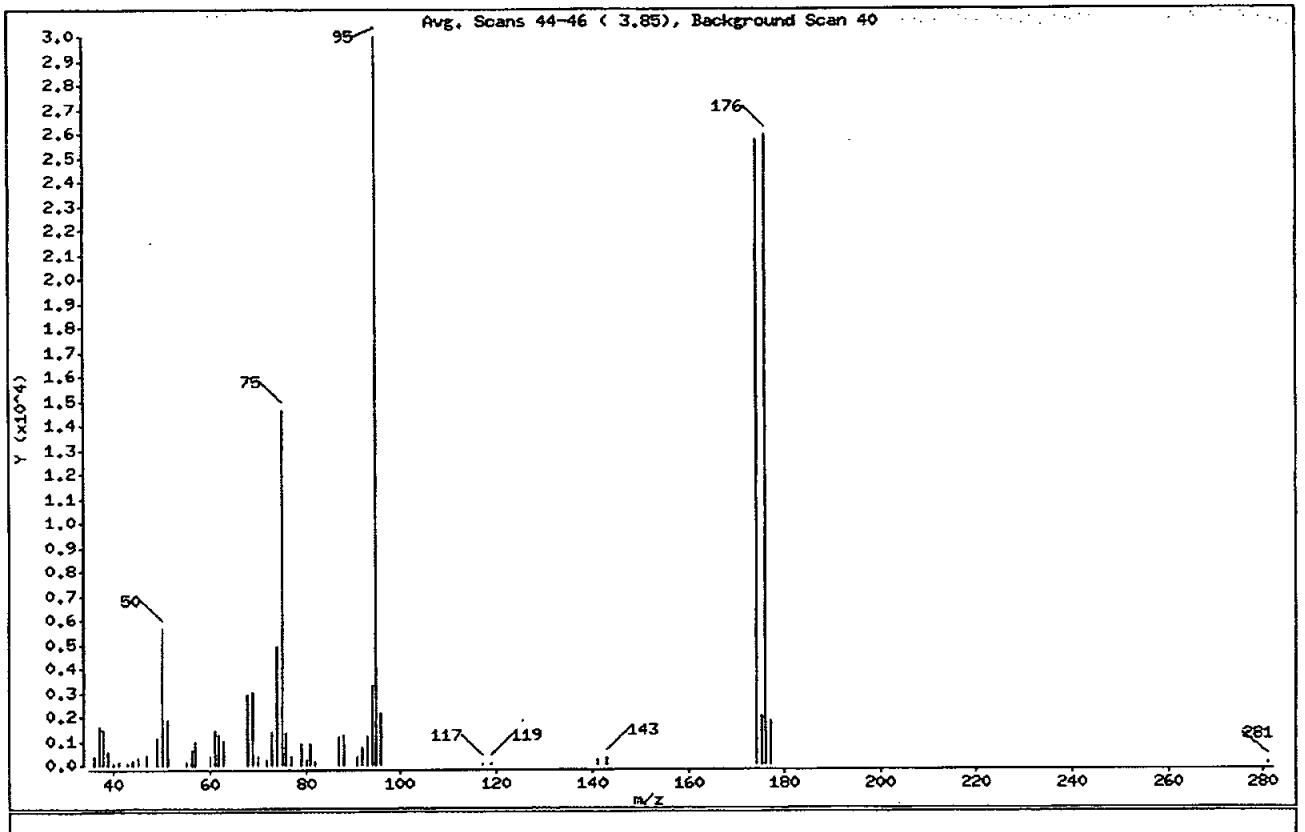
Sample Info: BFB MAR28-12;50ug BFB;2;3;;;;;;

Operator: ADS01731

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.86
75	30.00 - 60.00% of mass 95	48.82
96	5.00 - 9.00% of mass 95	7.09
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	85.82
175	5.00 - 9.00% of mass 174	6.61 (7.71)
176	95.00 - 101.00% of mass 174	86.36 (100.63)
177	5.00 - 9.00% of mass 176	6.07 (7.03)

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Target 3.5 esignature user ID: ads01731

Data File: /chem2/HP09953.i/12jul19a.b/bl19t01.d

Date : 19-JUL-2012 09:20

Client ID: BFB MAR28-12

Instrument: HP09953.i

Sample Info: BFB MAR28-12;50ug BFB;2;3;;;;;;

Operator: ADS01731

Column phase: DB-624

Column diameter: 0.18

Data File: bl19t01.d

Spectrum: Avg. Scans 44-46 (3.85), Background Scan 40

Location of Maximum: 95.00

Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	375	55.00	126	75.00	14660	95.00	30024
37.00	1578	56.00	653	76.00	1296	96.00	2130
38.00	1437	57.00	948	77.00	337	117.00	84
39.00	565	60.00	342	79.00	871	119.00	100
40.00	71	61.00	1426	80.00	218	141.00	226
41.00	127	62.00	1264	81.00	929	143.00	282
43.00	91	63.00	1011	82.00	114	174.00	25768
44.00	232	68.00	2870	87.00	1150	175.00	1986
45.00	293	69.00	3024	88.00	1236	176.00	25928
47.00	395	70.00	333	91.00	354	177.00	1824
49.00	1120	72.00	192	92.00	784	281.00	77
50.00	5664	73.00	1391	93.00	1165		
51.00	1894	74.00	4888	94.00	3291		

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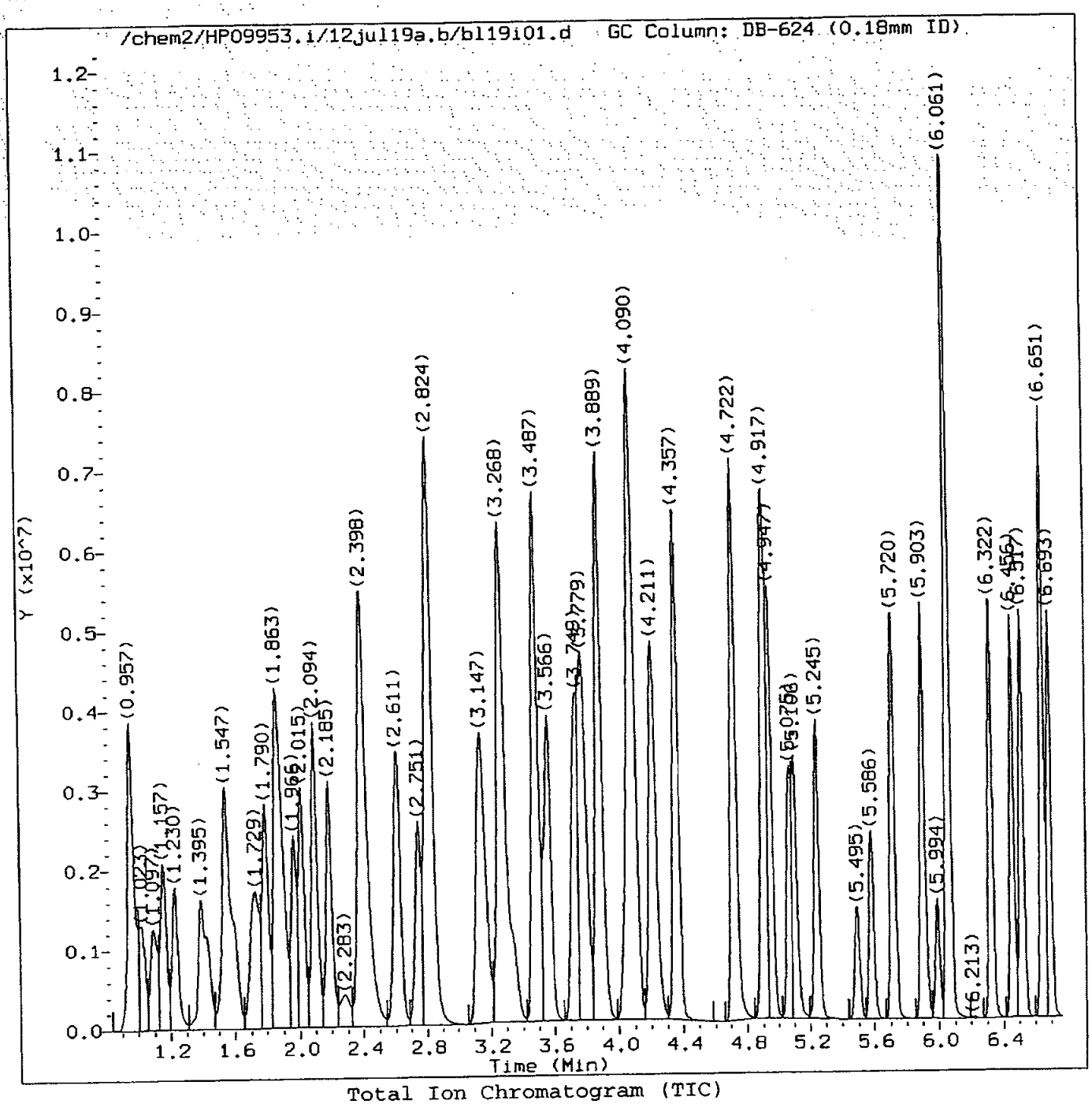
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d
Injection date and time: 19-JUL-2012 09:42

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

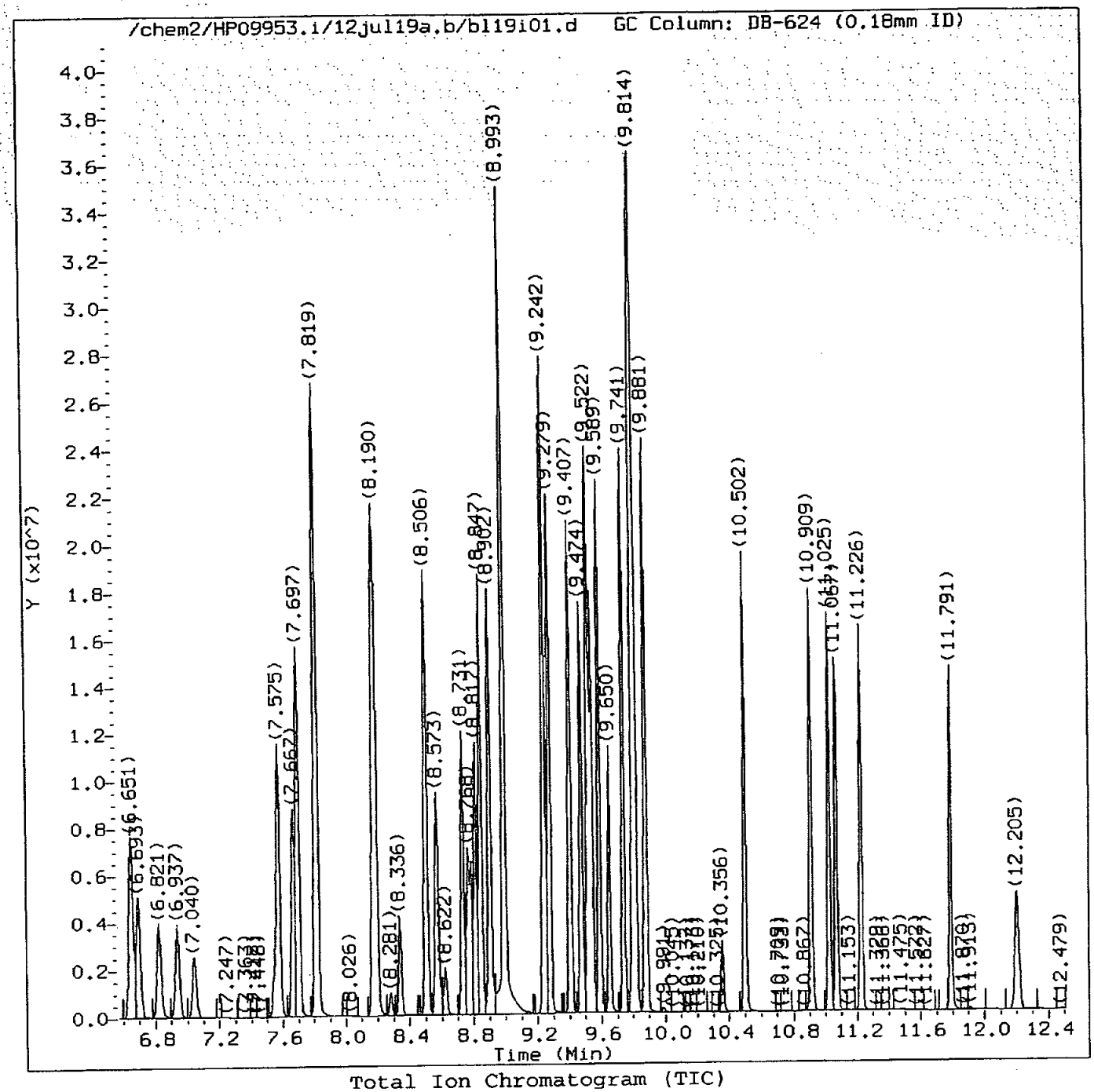
Sublist used: 8260SI-E

Sample Name: VSTD300

Lab Sample ID: VSTD300

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

ASX73 0132



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d
Injection date and time: 19-JUL-2012 09:42

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sublist used: 8260SI-E

Sample Name: VSTD300

Lab Sample ID: VSTD300

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 09:42 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.097	85	2778112	245.955
3) Chloromethane	(1)	1.157	50	2996393	263.632
4) Vinyl Chloride	(1)	1.230	62	2606269	262.310
6) Bromomethane	(1)	1.389	94	1574038	238.693
7) Chloroethane	(1)	1.431	64	1280429	242.477
8) Dichlorofluoromethane	(1)	1.541	67	3498045	262.105
9) Trichlorofluoromethane	(1)	1.595	101	2859336	254.065
12) Freon 123a	(1)	1.729	67	2118481	256.980
13) Acrolein	(4)	1.796	56	3170748	2594.314
14) 1,1-Dichloroethene	(1)	1.863	96	1475744	269.670
18) Freon 113	(1)	1.887	101	1645653	270.394
17) Acetone	(1)	1.887	43	925036	578.163
20) Methyl Iodide	(1)	1.966	142	3125063	278.174
21) 2-Propanol	(4)	1.979	45	646358	1359.972
23) Carbon Disulfide	(1)	2.015	76	5020431	286.440
25) Allyl Chloride	(1)	2.094	41	2886326	268.694
26) Methyl Acetate	(1)	2.106	43	1176816	289.494
27) Methylene Chloride	(1)	2.185	84	1850618	261.482
28)*t-Butyl Alcohol-d10	(4)	2.228	65	113825	250.000
29) t-Butyl Alcohol	(4)	2.289	59	1135608M	1469.438
30) Acrylonitrile	(4)	2.374	53	658181	246.185
31) trans-1,2-Dichloroethene	(1)	2.392	96	1855258	273.805
32) Methyl Tertiary Butyl Ether	(1)	2.411	73	5502359	299.878
35) n-Hexane	(1)	2.611	57	2715420	268.459
37) 1,1-Dichloroethane	(1)	2.745	63	3562546	282.430
40) di-Isopropyl Ether	(1)	2.812	45	6932409	287.277
41) 2-Chloro-1,3-Butadiene	(1)	2.824	53	3050618	280.807
43) Ethyl t-Butyl Ether	(1)	3.147	59	6419999	296.875
44) cis-1,2-Dichloroethene	(1)	3.268	96	2204991	285.649
45) 2,2-Dichloropropane	(1)	3.274	77	2933029	286.351
46) 2-Butanone	(1)	3.287	43	1823682	647.035
48) Propionitrile	(4)	3.347	54	1336399	1405.647
49) Methacrylonitrile	(4)	3.481	67	1941866	699.712
50) Bromochloromethane	(1)	3.487	128	1091824	295.128
51) Tetrahydrofuran	(4)	3.530	71	482419	560.091
52) Chloroform	(1)	3.566	83	3602081	279.609
53)$Dibromofluoromethane	(1)	3.719	113	273411	50.064
54)$Dibromofluoromethane(mz111)	(1)	3.719	111	280886	50.448

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 09:42 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	3.737	97	3824752	261.692
56) Cyclohexane(mz69)	(1)	3.785	69	1078626	281.881
58) Cyclohexane(mz84)	(1)	3.785	84	2912890	279.607
57) Cyclohexane	(1)	3.785	56	3522882	275.433
60) Carbon Tetrachloride	(1)	3.889	117	2817605	298.383
59) 1,1-Dichloropropene	(1)	3.889	75	2756688	286.177
62)$1,2-Dichloroethane-d4	(1)	4.029	102	58591	50.879
63)$1,2-Dichloroethane-d4(mz65)	(1)	4.035	65	280211	50.301
61)$1,2-Dichloroethane-d4(mz104)	(1)	4.035	104	38841	52.273
64) Isobutyl Alcohol	(4)	4.053	41	939524	3823.868
65) Benzene	(1)	4.084	78	8219345	284.234
66) 1,2-Dichloroethane	(1)	4.108	62	2635630	294.682
67) 1,2-Dichloroethane(mz98)	(1)	4.108	98	252809	302.620
71) t-Amyl Methyl Ether	(1)	4.211	73	5802379	303.618
72) n-Heptane	(1)	4.357	43	3240356	274.291
73)*Fluorobenzene	(1)	4.363	96	1150644	50.000
69) 1,2-Dichloroethene (total)	(1)		96	4060249	560.225
74) n-Butanol	(4)	4.716	56	1568343	7958.733
75) Trichloroethene	(1)	4.722	95	2198936	287.580
77) Methylcyclohexane	(1)	4.911	83	3676495	281.745
76) Methylcyclohexane(mz98)	(1)	4.911	98	1649222	281.723
78) 1,2-Dichloropropane	(1)	4.953	63	2230566	297.980
79) Dibromomethane	(1)	5.069	93	1317841	309.953
80) Methyl Methacrylate	(1)	5.106	69	1444945	333.288
81) 1,4-Dioxane	(4)	5.112	88	283433	3728.910
83) Bromodichloromethane	(1)	5.245	83	2785595	315.208
84) 2-Nitropropane	(4)	5.495	41	1050154A	633.411
86) 2-Chloroethyl Vinyl Ether	(1)	5.586	63	1219120	340.569
87) cis-1,3-Dichloropropene	(1)	5.720	75	3324139	316.415
89) 4-Methyl-2-Pentanone	(1)	5.903	43	4144776	681.237
90)$Toluene-d8	(2)	5.994	98	1128971	49.014
91)$Toluene-d8(mz100)	(2)	5.994	100	755912	49.892
92) Toluene	(2)	6.061	92	5417685	274.411
93) trans-1,3-Dichloropropene	(2)	6.328	75	3085842	319.281
95) Ethyl Methacrylate	(2)	6.456	69	2763723	325.149
96) 1,1,2-Trichloroethane	(2)	6.517	97	1791420	300.002
97) Tetrachloroethene	(2)	6.651	166	2562560	275.742
98) 1,3-Dichloropropane	(2)	6.693	76	3019129	300.078

A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 09:42 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
100) 2-Hexanone	(2)	6.821	58	1535968	701.793
103) Dibromochloromethane	(2)	6.937	129	2222128	327.340
105) 1,2-Dibromoethane	(2)	7.040	107	1905307	310.411
106)*Chlorobenzene-d5	(2)	7.545	117	854523	50.000
107) Chlorobenzene	(2)	7.575	112	5932988	275.401
108) 1,1,1,2-Tetrachloroethane	(2)	7.667	131	2300756	299.031
109) Ethylbenzene	(2)	7.697	91	9953620	267.489
110) m+p-Xylene	(2)	7.819	106	7586405	513.185
112) Xylene (Total)	(2)		106	11596638	783.081
113) o-Xylene	(2)	8.178	106	4010233	269.895
115) Styrene	(2)	8.196	104	6614207	275.356
116) Bromoform	(2)	8.336	173	1665652	358.736
117) Isopropylbenzene	(2)	8.506	105	9809770	253.005
118) Cyclohexanone	(4)	8.573	55	3496971	3915.859
120)$4-Bromofluorobenzene	(2)	8.622	95	423812	50.508
121)$4-Bromofluorobenzene(mz174)	(2)	8.628	174	391222	49.977
122) Bromobenzene	(3)	8.737	156	2874028	296.150
123) 1,1,2,2-Tetrachloroethane	(3)	8.768	83	2537017	327.654
124) 1,2,3-Trichloropropane	(3)	8.786	110	712595	328.878
125) trans-1,4-Dichloro-2-Butene	(3)	8.817	53	1744051	855.089
126) n-Propylbenzene	(3)	8.847	91	10690548	251.110
127) 2-Chlorotoluene	(3)	8.902	126	2680448	292.593
129) 4-Chlorotoluene	(3)	8.987	126	2467370	266.226
128) 1,3,5-Trimethylbenzene	(3)	8.993	105	8176544	259.414
131) tert-Butylbenzene	(3)	9.242	134	2035636	278.922
132) Pentachloroethane	(3)	9.248	167	1825045	319.044
133) 1,2,4-Trimethylbenzene	(3)	9.279	105	8725800	270.357
134) sec-Butylbenzene	(3)	9.407	105	10114482	250.548
135) 1,3-Dichlorobenzene	(3)	9.474	146	5297771	287.447
136) p-Isopropyltoluene	(3)	9.522	119	9022884	253.782
137)*1,4-Dichlorobenzene-d4	(3)	9.528	152	472595	50.000
138) 1,4-Dichlorobenzene	(3)	9.547	146	5345770	275.318
139) 1,2,3-Trimethylbenzene	(3)	9.589	105	8638367	266.641
140) Benzyl Chloride	(3)	9.650	91	5341959	369.793
141) 1,3-Diethylbenzene	(3)	9.741	119	5877246	281.180
142) 1,4-Diethylbenzene	(3)	9.796	119	5790277	266.250
144) 1,2-Dichlorobenzene	(3)	9.808	146	4572113	260.597
143) n-Butylbenzene	(3)	9.814	92	4741087	269.602

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 09:42 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
145) 1,2-Diethylbenzene	(3)	9.881	119	5023247	276.403
147) 1,2-Dibromo-3-Chloropropane	(3)	10.356	75	502267	359.650
149) 1,3,5-Trichlorobenzene	(3)	10.502	180	4382476M	269.112
150) 1,2,4-Trichlorobenzene	(3)	10.909	180	3863851	271.616
152) Hexachlorobutadiene	(3)	11.025	225	2214077	271.511
153) Naphthalene	(3)	11.067	128	7928215	273.040
154) 1,2,3-Trichlorobenzene	(3)	11.226	180	3538901	264.360
155) 2-Methylnaphthalene	(3)	11.791	142	4682299	268.091

M = Compound was manually integrated.

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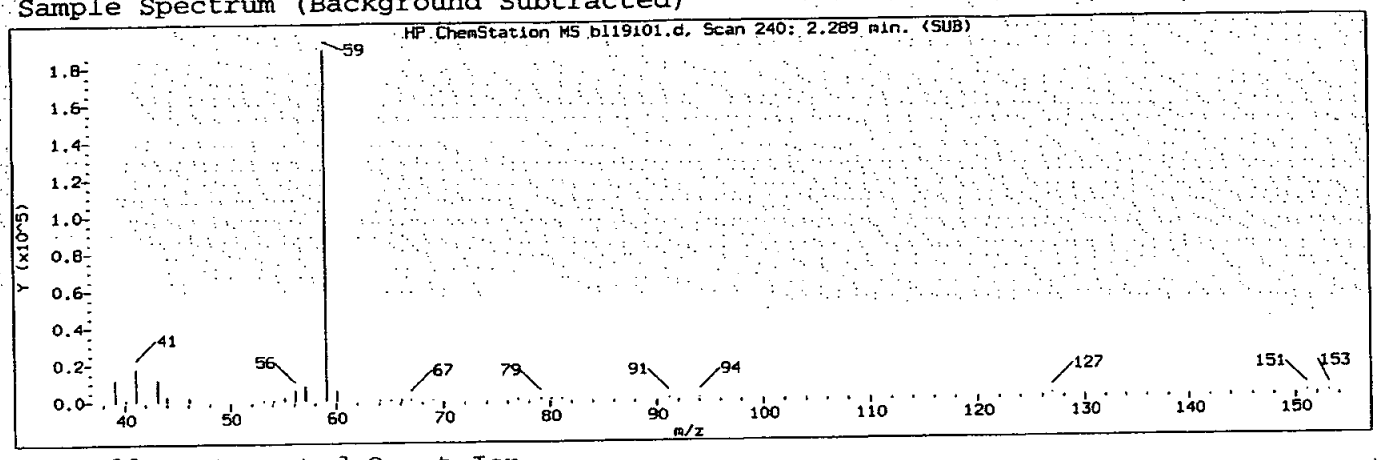
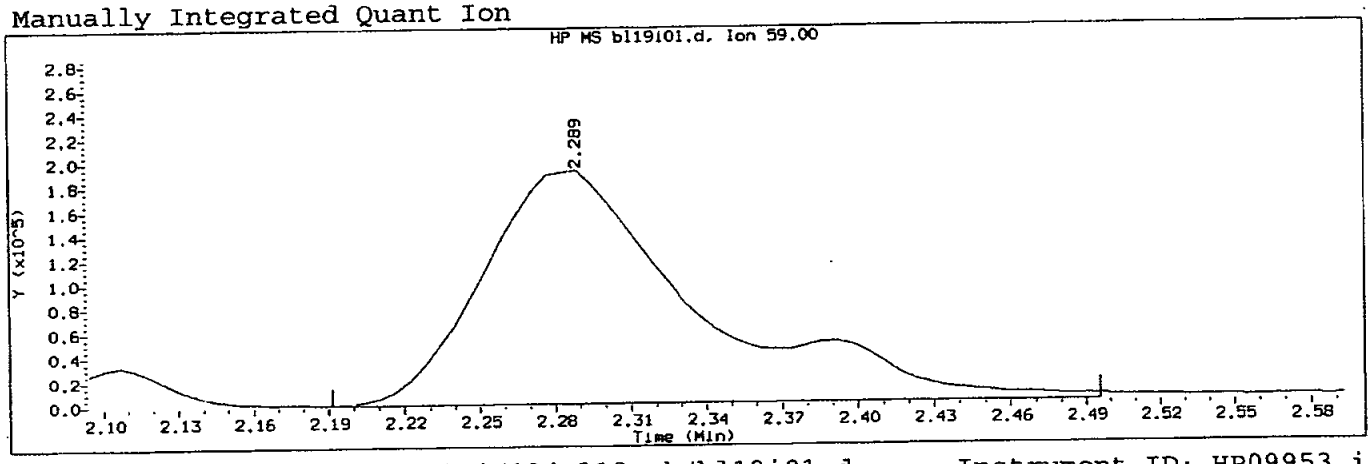
on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 09:42 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD300 Lab Sample ID: VSTD300

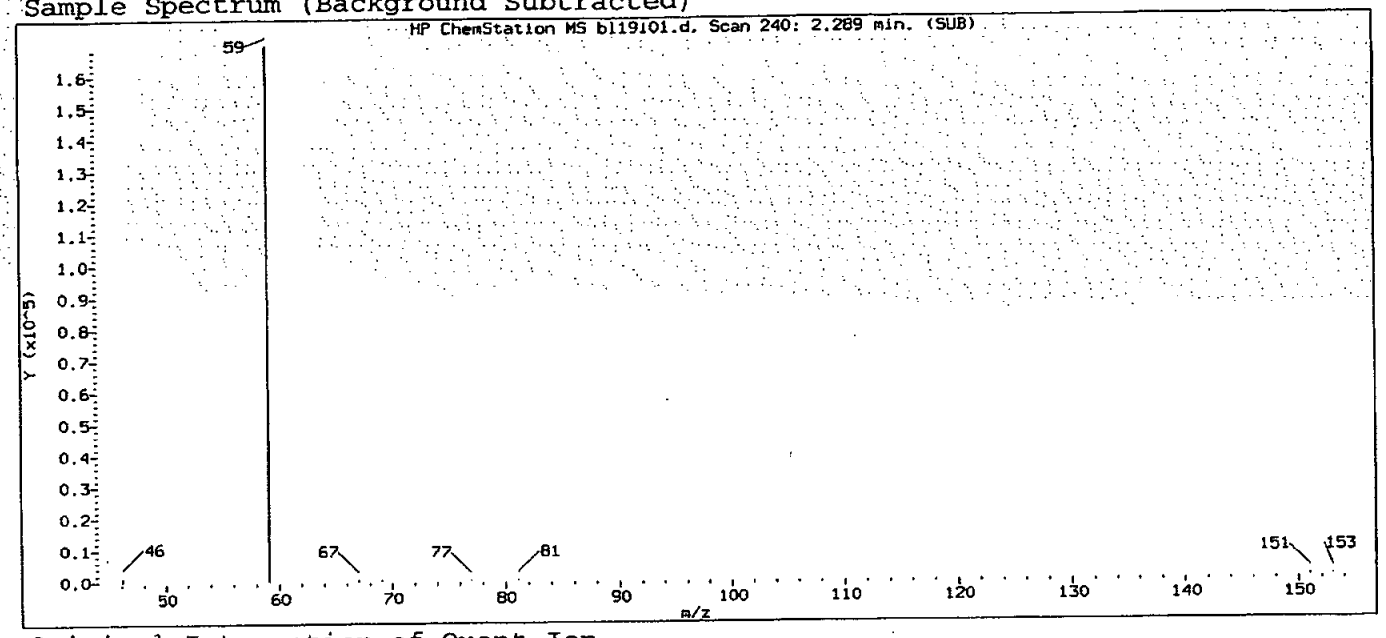
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 240		
Retention Time (minutes)	: 2.289		
Quant Ion	: 59.00		
Area (flag)	: 1135608M		
On-Column Amount (ng)	: 1469.4377		
Integration start scan	: 223	Integration stop scan:	273
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

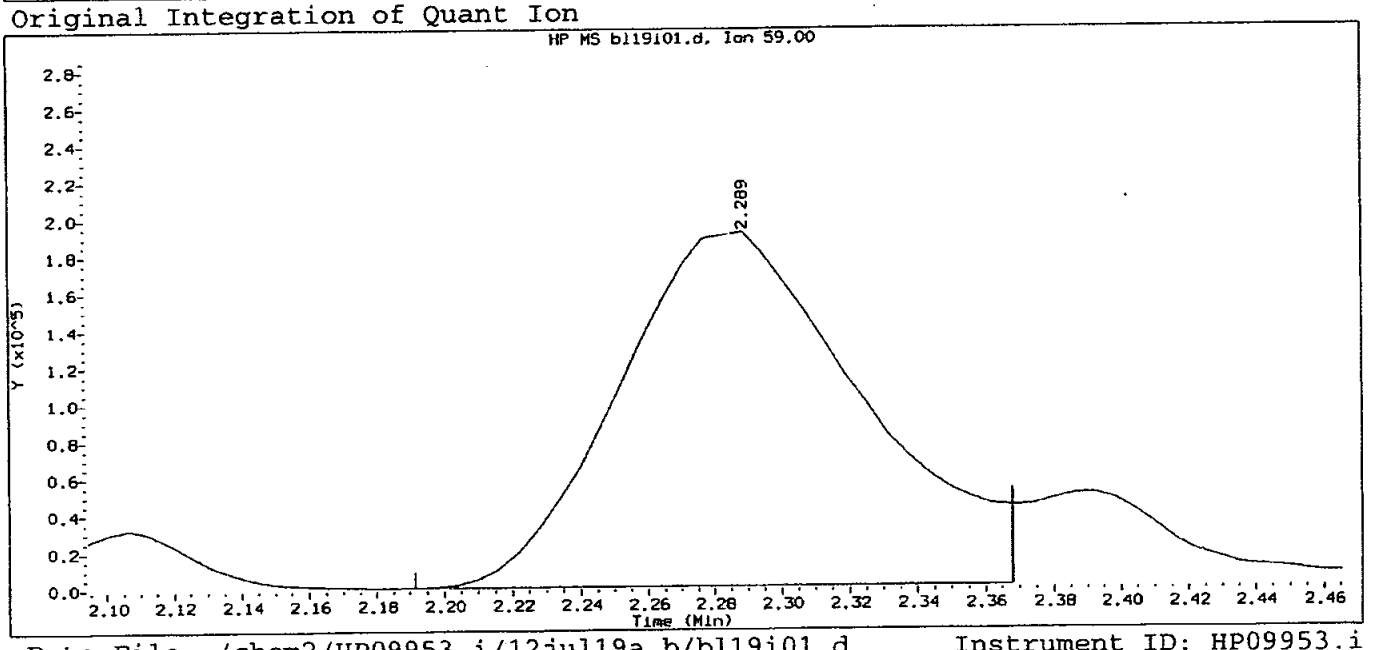
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:58. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: _____ 07/20/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 09:42 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 09:58
Date, time and analyst ID of latest file update: 19-Jul-2012 09:58 Automation

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 240
Retention Time (minutes): 2.289
Quant Ion : 59.00
Area : 958506
On-column Amount (ng) : 1678.6289
Integration start scan : 223 Integration stop scan: 252
Y at integration start : 462 Y at integration end: 462

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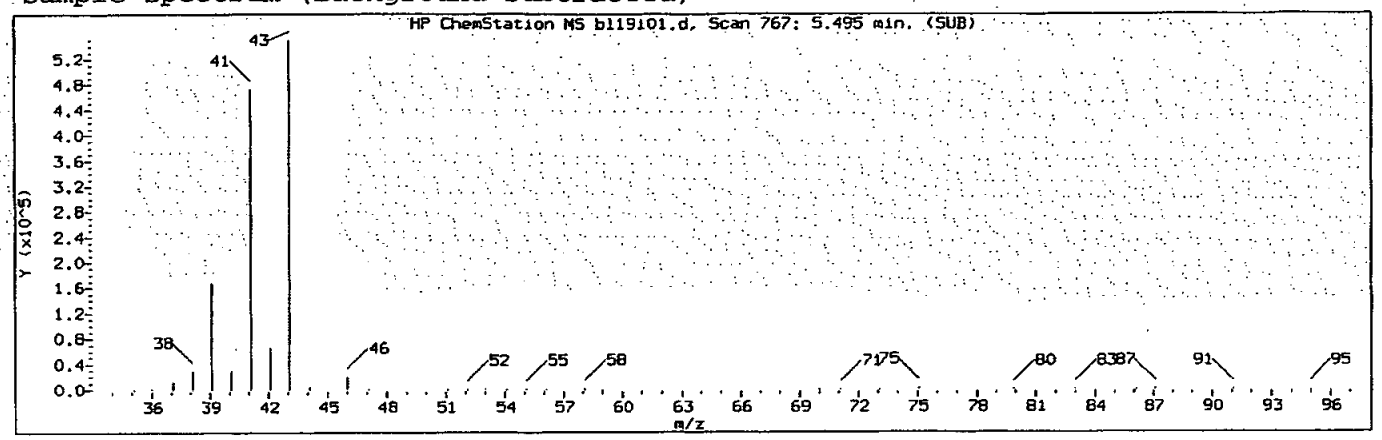
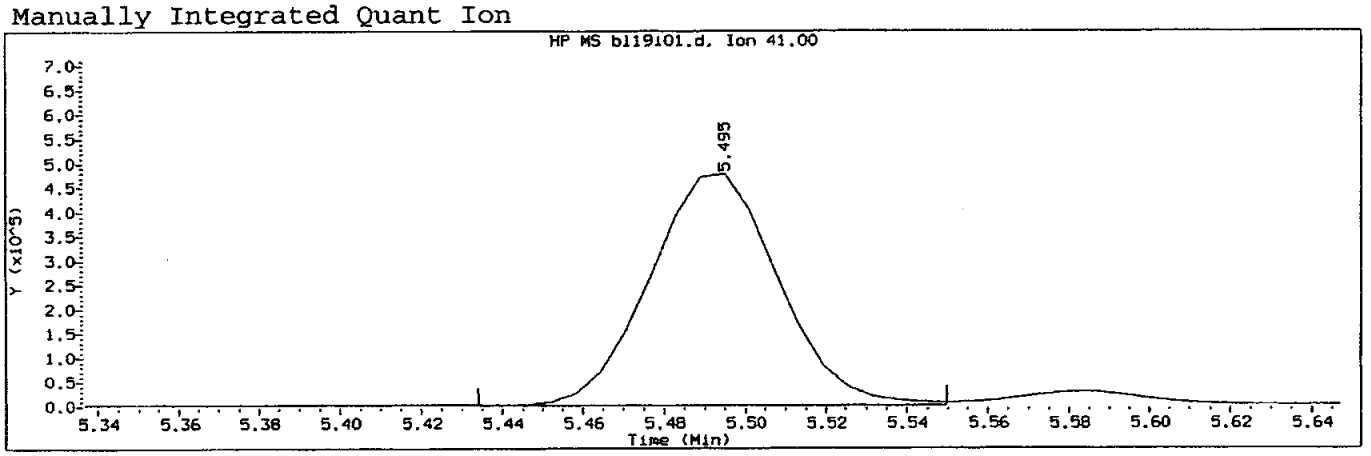
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 09:42 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD300 Lab Sample ID: VSTD300

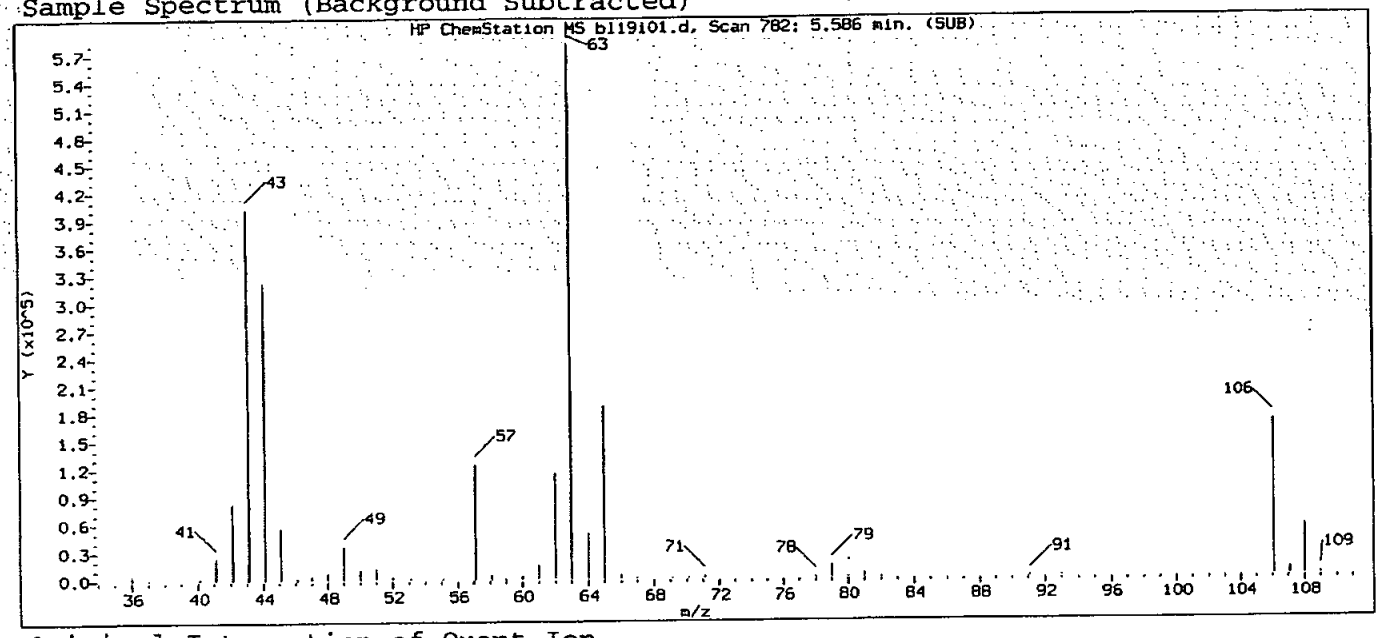
Compound Number : 84
Compound Name : 2-Nitropropane
Scan Number : 767
Retention Time (minutes): 5.495
Quant Ion : 41.00
Area (flag) : 1050154A
On-Column Amount (ng) : 633.4105
Integration start scan : 756 Integration stop scan: 775
Y at integration start : 1507 Y at integration end: 1507

Reason for manual integration: improper integration

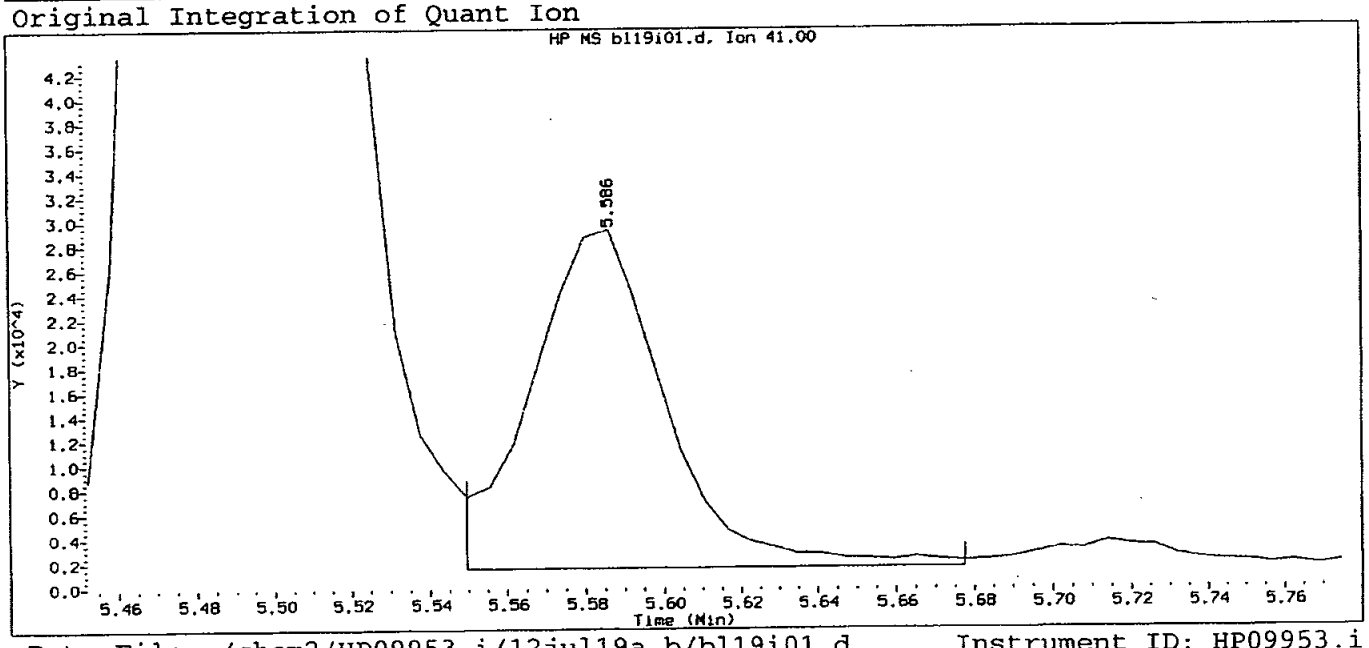
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:58. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: [signature] 07/20/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 09:42 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 09:58
Date, time and analyst ID of latest file update: 19-Jul-2012 09:58 Automation

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 84
Compound Name : 2-Nitropropane
Scan Number : 782
Retention Time (minutes): 5.586
Quant Ion : 41.00
Area : 65701
On-column Amount (ng) : 73.3826
Integration start scan : 775 Integration stop scan: 796
Y at integration start : 1507 Y at integration end: 1507

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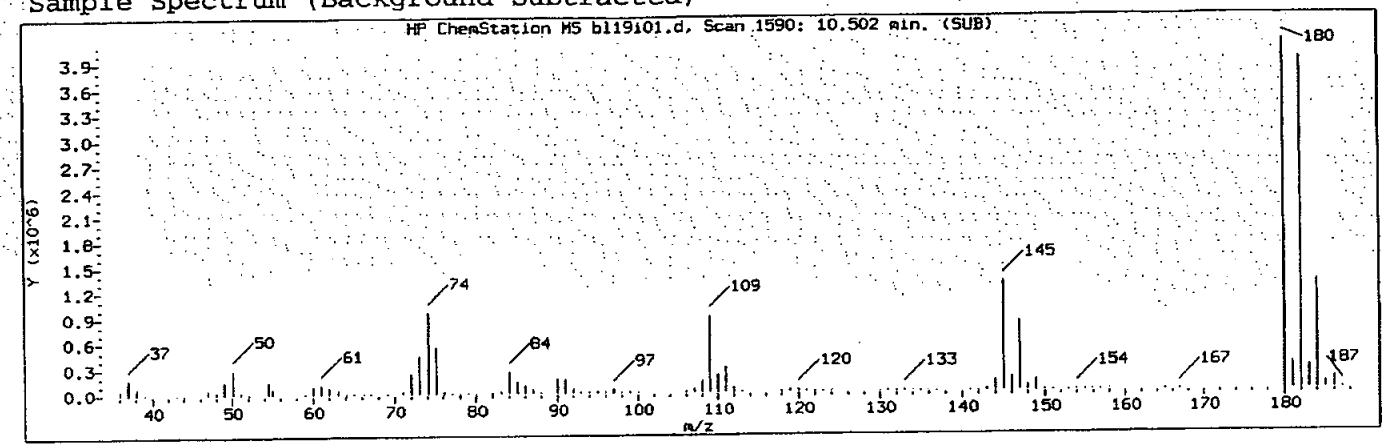
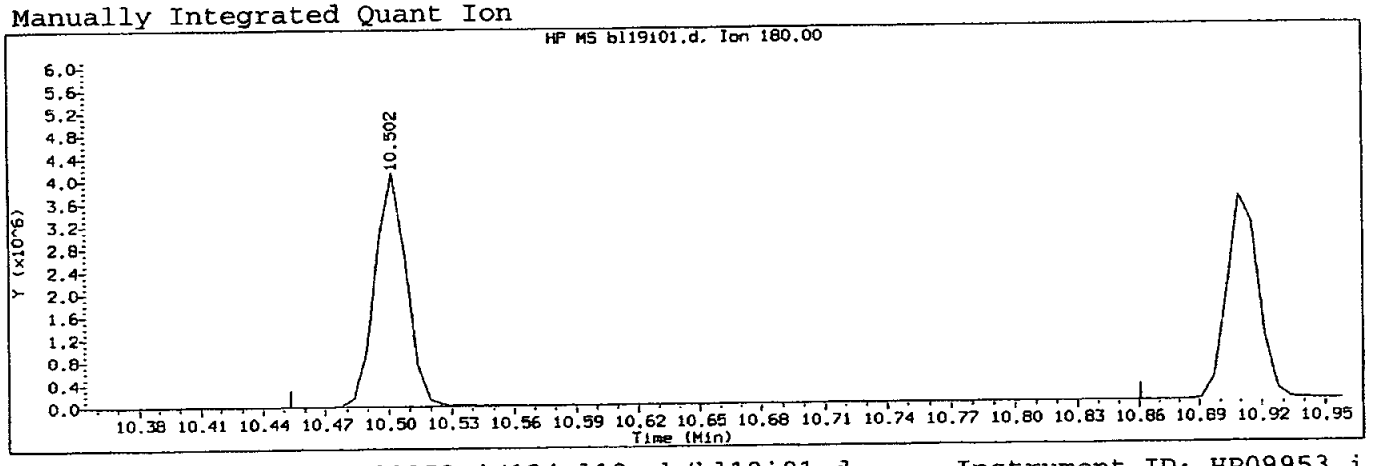
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 09:42 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Scan Number : 1590
Retention Time (minutes): 10.502
Quant Ion : 180.00
Area (flag) : 4382476M
On-Column Amount (ng) : 269.1121
Integration start scan : 1581 Integration stop scan: 1648
Y at integration start : 0 Y at integration end: 0

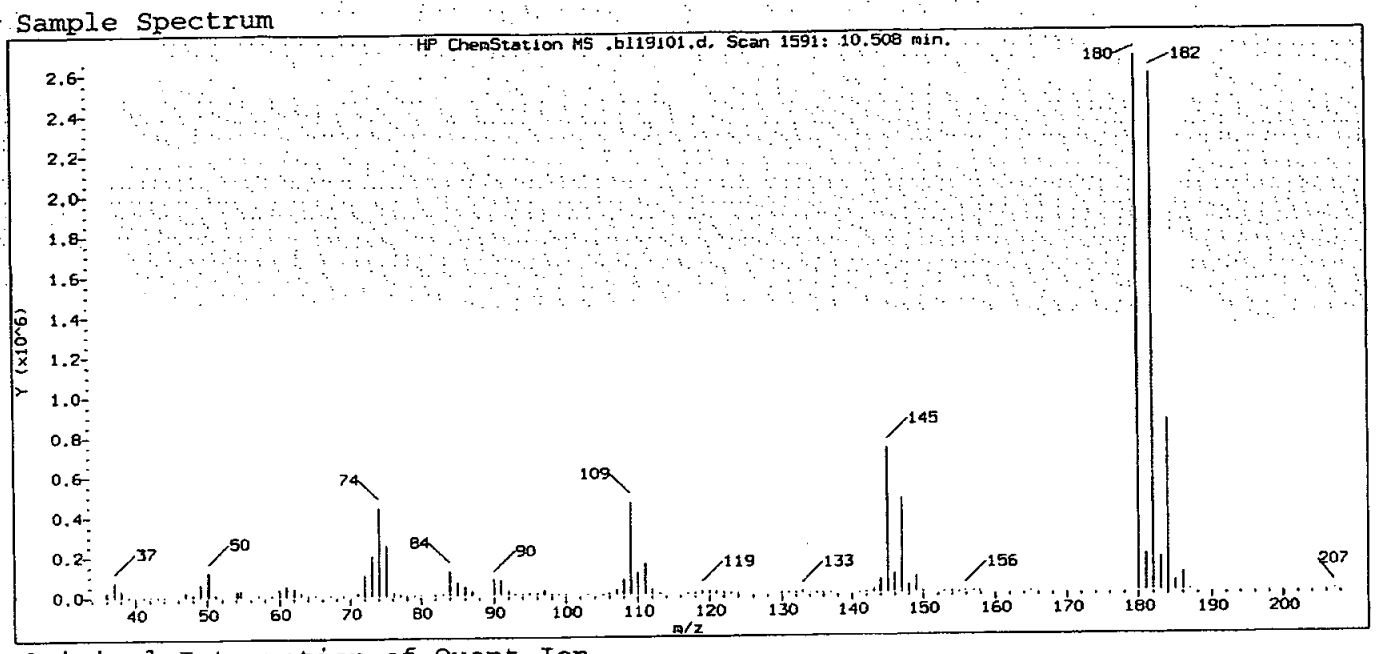
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:58. Target 3.5 esignature user ID: ads01731

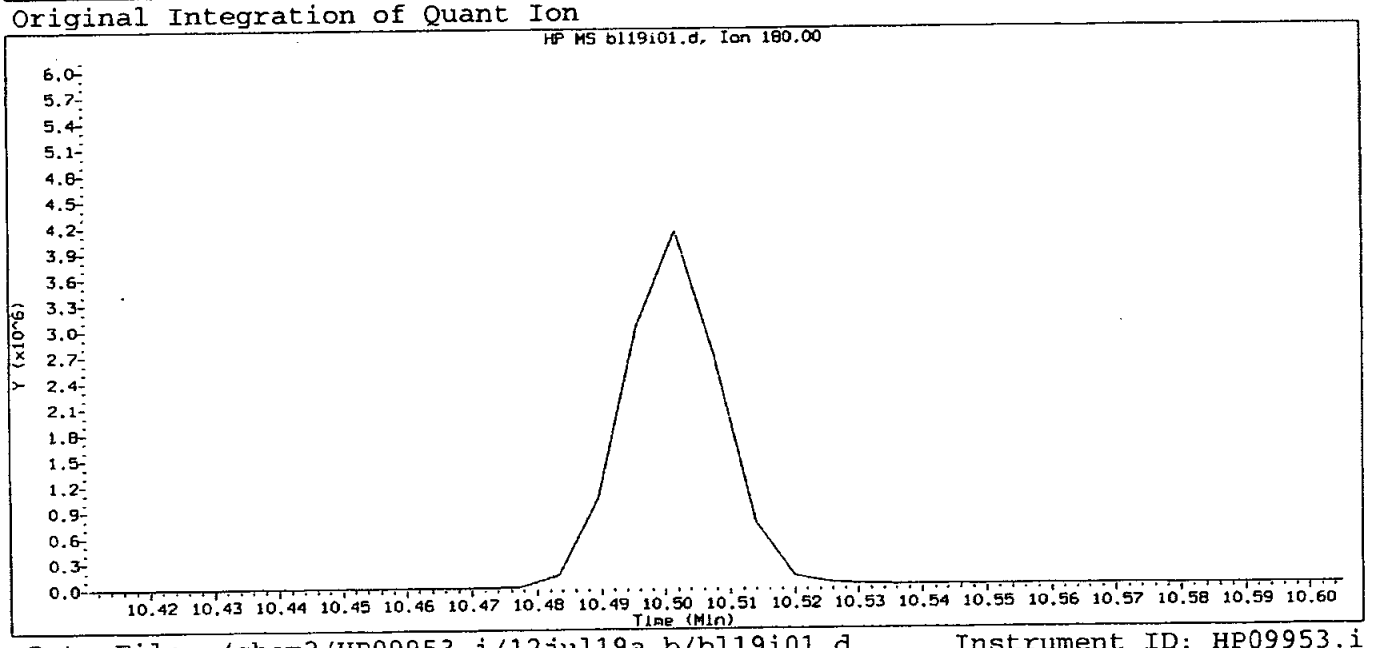
GC/MS audit/management approval: ADSmith 07/24/12

ASX73 0142

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 09:42 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 09:58
Date, time and analyst ID of latest file update: 19-Jul-2012 09:58 Automation

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Expected RT (minutes) : 10.508
Quant Ion : 180.00

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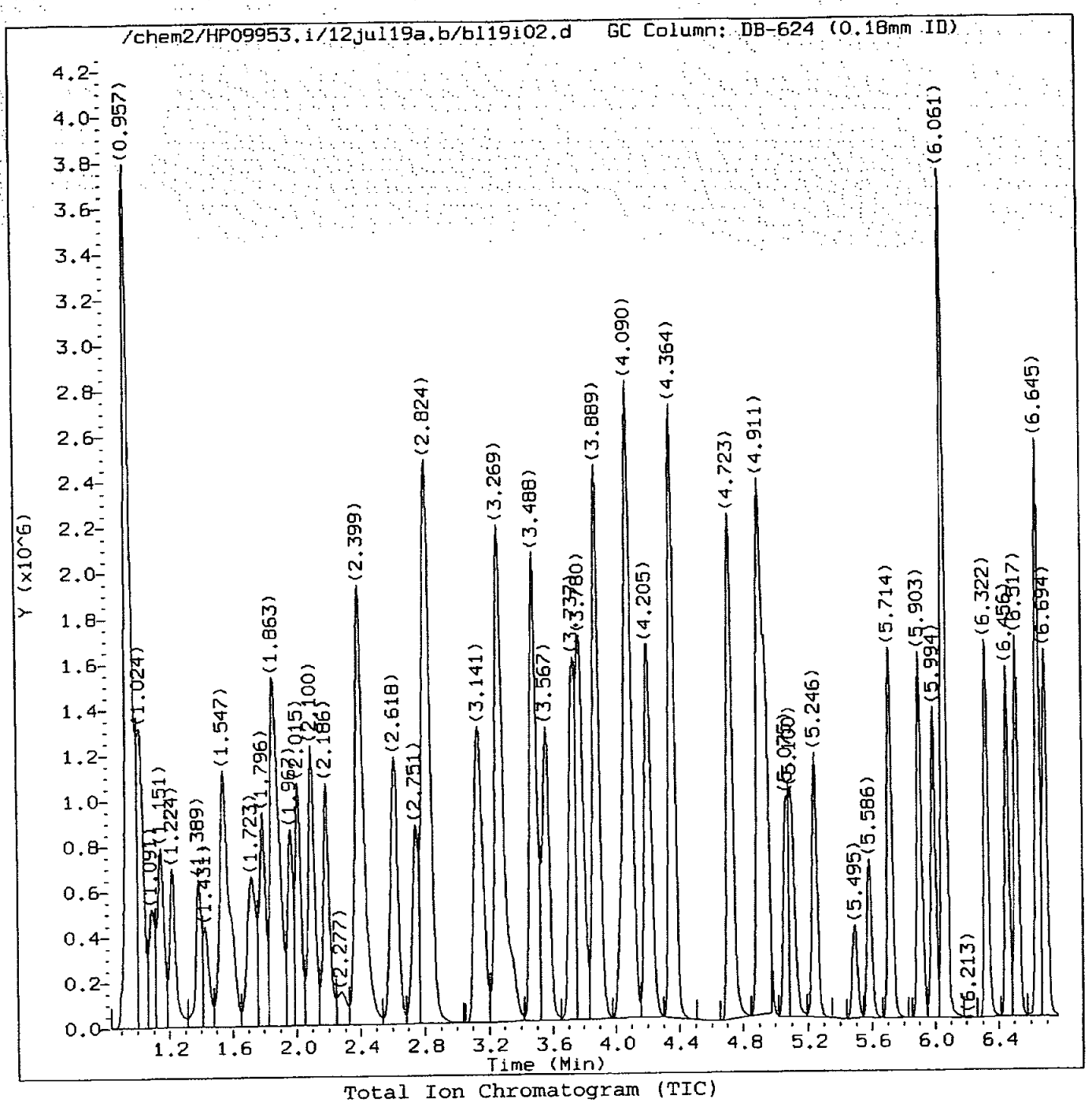
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d
Injection date and time: 19-JUL-2012 10:17

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sublist used: 8260SI-E

Sample Name: VSTD100

Lab Sample ID: VSTD100

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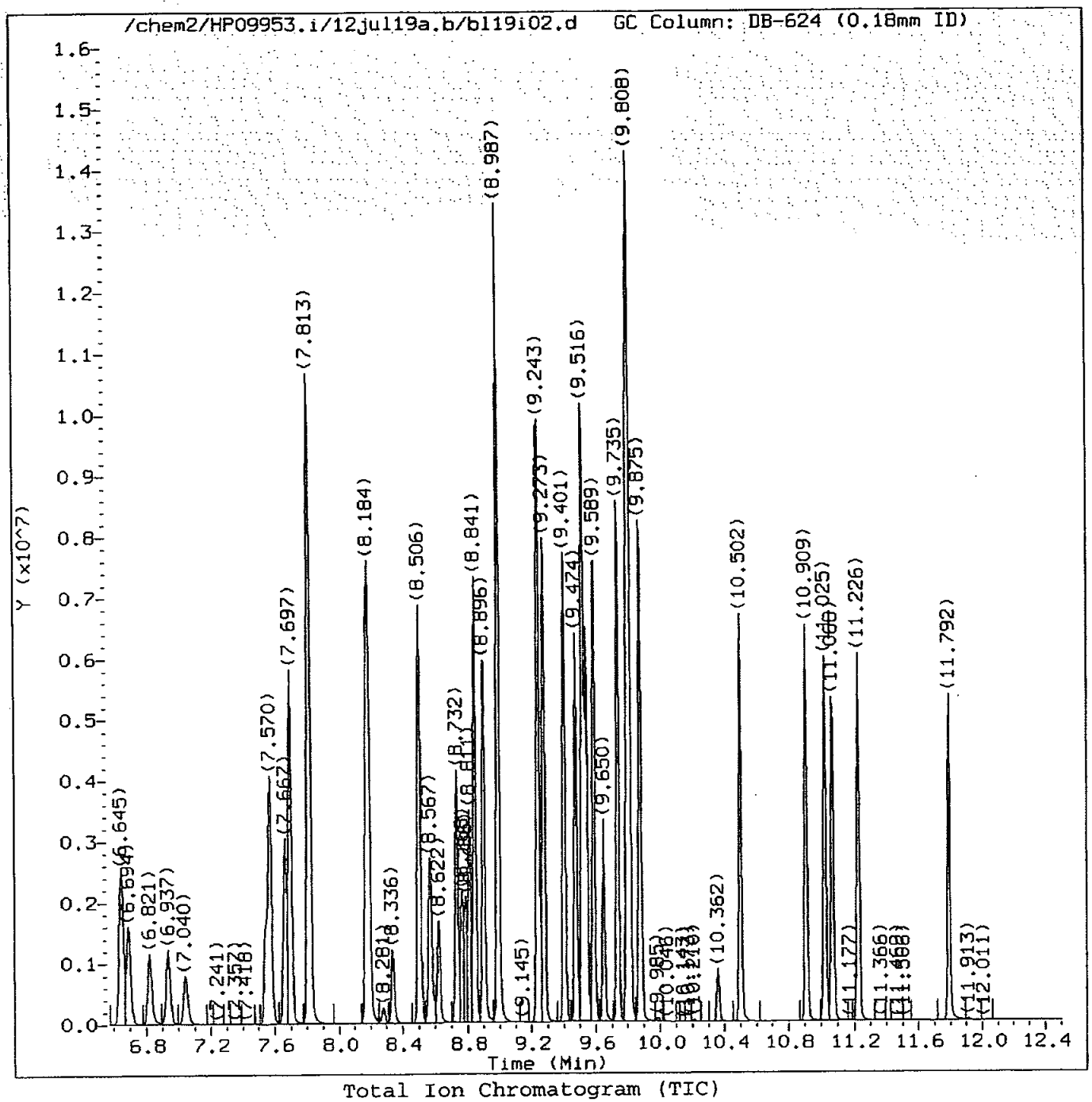
on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

ASX73 0144



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD100 Lab Sample ID: VSTD100

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/b119i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.097	85	1018690	94.202
3) Chloromethane	(1)	1.151	50	1059089	97.329
4) Vinyl Chloride	(1)	1.224	62	928314	97.589
6) Bromomethane	(1)	1.389	94	599213	94.911
7) Chloroethane	(1)	1.431	64	485135	95.960
8) Dichlorofluoromethane	(1)	1.541	67	1255995	98.299
9) Trichlorofluoromethane	(1)	1.596	101	1059105	98.295
12) Freon 123a	(1)	1.723	67	759346	96.211
13) Acrolein	(4)	1.796	56	1054802	1027.184
14) 1,1-Dichloroethene	(1)	1.863	96	527197	100.625
18) Freon 113	(1)	1.888	101	598387	102.696
17) Acetone	(1)	1.888	43	302769M	197.658
20) Methyl Iodide	(1)	1.967	142	1101419	102.405
21) 2-Propanol	(4)	1.985	45	206658	517.518
23) Carbon Disulfide	(1)	2.015	76	1748931	104.226
25) Allyl Chloride	(1)	2.100	41	1016540	98.844
26) Methyl Acetate	(1)	2.113	43	371015	95.331
27) Methylene Chloride	(1)	2.186	84	636483	93.934
28)*t-Butyl Alcohol-d10	(4)	2.222	65	95636	250.000
29) t-Butyl Alcohol	(4)	2.283	59	349152M	537.717
30) Acrylonitrile	(4)	2.380	53	214809	95.628
31) trans-1,2-Dichloroethene	(1)	2.399	96	657130	101.298
32) Methyl Tertiary Butyl Ether	(1)	2.411	73	1818752	103.534
35) n-Hexane	(1)	2.618	57	981227	101.326
37) 1,1-Dichloroethane	(1)	2.751	63	1244608	103.061
40) di-Isopropyl Ether	(1)	2.812	45	2396894	103.747
41) 2-Chloro-1,3-Butadiene	(1)	2.830	53	1071558	103.026
43) Ethyl t-Butyl Ether	(1)	3.141	59	2166837	104.659
44) cis-1,2-Dichloroethene	(1)	3.269	96	765405	103.569
45) 2,2-Dichloropropane	(1)	3.275	77	1018472	103.859
46) 2-Butanone	(1)	3.293	43	571596	211.826
48) Propionitrile	(4)	3.348	54	417284	522.382
50) Bromochloromethane	(1)	3.488	128	359047	101.373
49) Methacrylonitrile	(4)	3.488	67	612305	262.594
51) Tetrahydrofuran	(4)	3.530	71	150229	207.589
52) Chloroform	(1)	3.567	83	1249190	101.283
53)$Dibromofluoromethane	(1)	3.719	113	259267	49.587
54)$Dibromofluoromethane(mz111)	(1)	3.719	111	265564	49.819

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	3.737	97	1309360	93.575
58) Cyclohexane(mz84)	(1)	3.780	84	1032023	103.472
56) Cyclohexane(mz69)	(1)	3.786	69	378405	103.291
57) Cyclohexane	(1)	3.786	56	1242726	101.486
60) Carbon Tetrachloride	(1)	3.889	117	961459	106.350
59) 1,1-Dichloropropene	(1)	3.889	75	956992	103.769
63)$1,2-Dichloroethane-d4(mz65)	(1)	4.035	65	263146	49.340
62)$1,2-Dichloroethane-d4	(1)	4.035	102	55539	50.375
61)$1,2-Dichloroethane-d4(mz104)	(1)	4.041	104	35899	50.464
64) Isobutyl Alcohol	(4)	4.047	41	278447	1348.820
65) Benzene	(1)	4.084	78	2871500	103.719
67) 1,2-Dichloroethane(mz98)	(1)	4.108	98	83604	104.531
66) 1,2-Dichloroethane	(1)	4.108	62	890121	103.951
71) t-Amyl Methyl Ether	(1)	4.211	73	1910311	104.409
72) n-Heptane	(1)	4.364	43	1155985	102.207
73)*Fluorobenzene	(1)	4.364	96	1101613	50.000
69) 1,2-Dichloroethene (total)	(1)		96	1422535	205.015
74) n-Butanol	(4)	4.716	56	466096	2815.105
75) Trichloroethene	(1)	4.729	95	758725	103.643
77) Methylcyclohexane	(1)	4.911	83	1241069	99.341
76) Methylcyclohexane(mz98)	(1)	4.911	98	560710	100.045
78) 1,2-Dichloropropane	(1)	4.954	63	755021	105.352
79) Dibromomethane	(1)	5.069	93	430630	105.791
80) Methyl Methacrylate	(1)	5.106	69	444651	107.127
81) 1,4-Dioxane	(4)	5.112	88	87400	1368.545
83) Bromodichloromethane	(1)	5.246	83	919181	108.641
84) 2-Nitropropane	(4)	5.495	41	316844A	227.454
86) 2-Chloroethyl Vinyl Ether	(1)	5.580	63	382166	111.512
87) cis-1,3-Dichloropropene	(1)	5.714	75	1108632	110.224
89) 4-Methyl-2-Pentanone	(1)	5.903	43	1322053	226.964
90)$Toluene-d8	(2)	5.994	98	1068503	49.744
91)$Toluene-d8(mz100)	(2)	5.994	100	701602	49.656
92) Toluene	(2)	6.061	92	1891109	102.715
93) trans-1,3-Dichloropropene	(2)	6.322	75	997755	110.701
95) Ethyl Methacrylate	(2)	6.456	69	871771	109.981
96) 1,1,2-Trichloroethane	(2)	6.517	97	584609	104.983
97) Tetrachloroethene	(2)	6.651	166	890356	102.735
98) 1,3-Dichloropropane	(2)	6.694	76	988921	105.400

A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
100) 2-Hexanone	(2)	6.821	58	470892	230.715
103) Dibromochloromethane	(2)	6.937	129	705352	111.420
105) 1,2-Dibromoethane	(2)	7.040	107	609115	106.414
106)*Chlorobenzene-d5	(2)	7.545	117	796887	50.000
107) Chlorobenzene	(2)	7.576	112	2084679	103.767
108) 1,1,1,2-Tetrachloroethane	(2)	7.667	131	771246	107.489
109) Ethylbenzene	(2)	7.697	91	3629732	104.599
110) m+p-Xylene	(2)	7.813	106	2847540	206.555
112) Xylene (Total)	(2)		106	4282469	310.113
113) o-Xylene	(2)	8.178	106	1434929	103.558
115) Styrene	(2)	8.190	104	2376737	106.102
116) Bromoform	(2)	8.342	173	501613	115.847
117) Isopropylbenzene	(2)	8.506	105	3746329	103.610
118) Cyclohexanone	(4)	8.567	55	1039627	1385.571
120)$4-Bromofluorobenzene	(2)	8.622	95	389676	49.798
121)$4-Bromofluorobenzene(mz174)	(2)	8.622	174	360708	49.412
122) Bromobenzene	(3)	8.732	156	980484	104.943
123) 1,1,2,2-Tetrachloroethane	(3)	8.762	83	805542	108.062
124) 1,2,3-Trichloropropane	(3)	8.786	110	223915	107.342
125) trans-1,4-Dichloro-2-Butene	(3)	8.811	53	555701	283.000
126) n-Propylbenzene	(3)	8.841	91	4318516	105.364
127) 2-Chlorotoluene	(3)	8.902	126	915602	103.814
129) 4-Chlorotoluene	(3)	8.987	126	934158	104.696
128) 1,3,5-Trimethylbenzene	(3)	8.993	105	3220331	106.125
131) tert-Butylbenzene	(3)	9.237	134	735569	104.688
132) Pentachloroethane	(3)	9.249	167	602682	109.435
133) 1,2,4-Trimethylbenzene	(3)	9.273	105	3302174	106.273
134) sec-Butylbenzene	(3)	9.407	105	4095588	105.380
135) 1,3-Dichlorobenzene	(3)	9.474	146	1871068	105.450
136) p-Isopropyltoluene	(3)	9.516	119	3620999	105.788
137)*1,4-Dichlorobenzene-d4	(3)	9.522	152	454984	50.000
138) 1,4-Dichlorobenzene	(3)	9.541	146	1902709	101.786
139) 1,2,3-Trimethylbenzene	(3)	9.589	105	3196080	102.472
140) Benzyl Chloride	(3)	9.650	91	1652392	118.813
141) 1,3-Diethylbenzene	(3)	9.735	119	2053650	102.054
142) 1,4-Diethylbenzene	(3)	9.796	119	2115886	101.059
144) 1,2-Dichlorobenzene	(3)	9.808	146	1772048	104.911
143) n-Butylbenzene	(3)	9.814	92	1784798	105.421

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
145) 1,2-Diethylbenzene	(3)	9.875	119	1752279	100.151
147) 1,2-Dibromo-3-Chloropropane	(3)	10.356	75	150740	112.116
149) 1,3,5-Trichlorobenzene	(3)	10.502	180	1618339M	103.223
150) 1,2,4-Trichlorobenzene	(3)	10.909	180	1417274	103.486
152) Hexachlorobutadiene	(3)	11.025	225	796136	101.409
153) Naphthalene	(3)	11.068	128	2955228	105.714
154) 1,2,3-Trichlorobenzene	(3)	11.226	180	1317185	102.204
155) 2-Methylnaphthalene	(3)	11.792	142	1749159	104.027

M = Compound was manually integrated.

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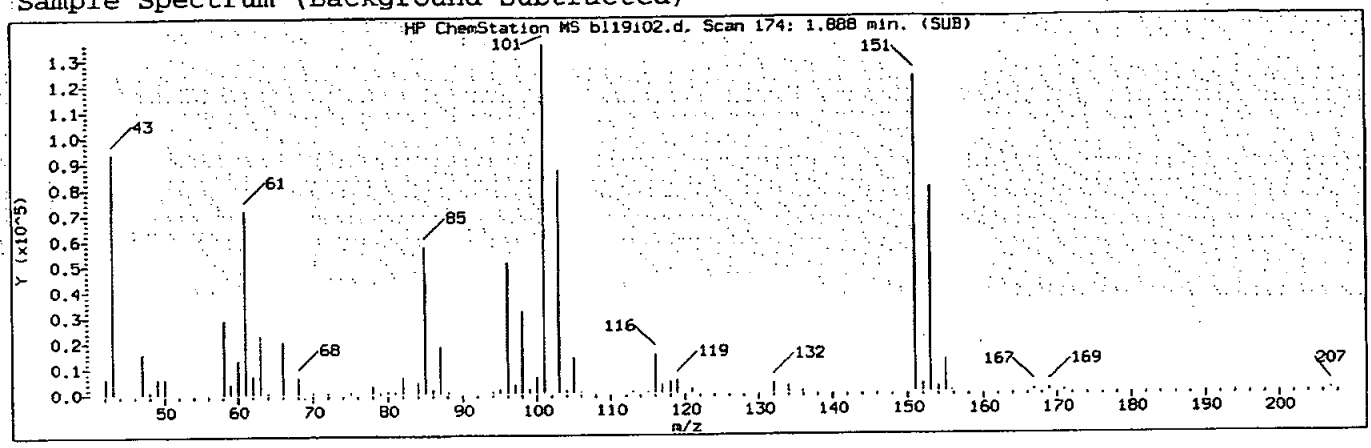
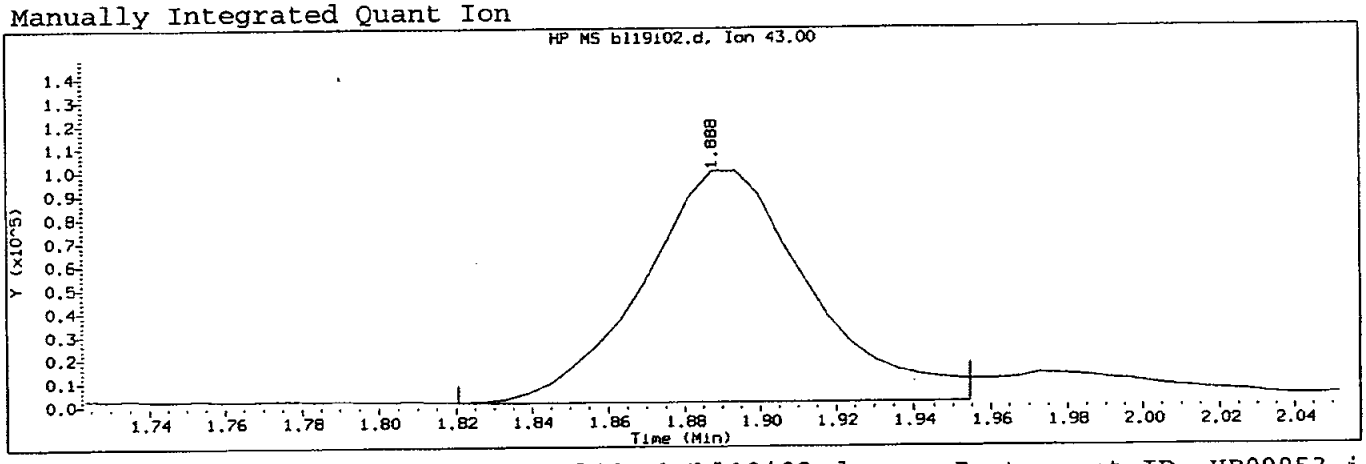
on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 17		
Compound Name	: Acetone		
Scan Number	: 174		
Retention Time (minutes)	: 1.888		
Quant Ion	: 43.00		
Area (flag)	: 302769M		
On-Column Amount (ng)	: 197.6584		
Integration start scan	: 162	Integration stop scan:	184
Y at integration start	: 1073	Y at integration end:	1073

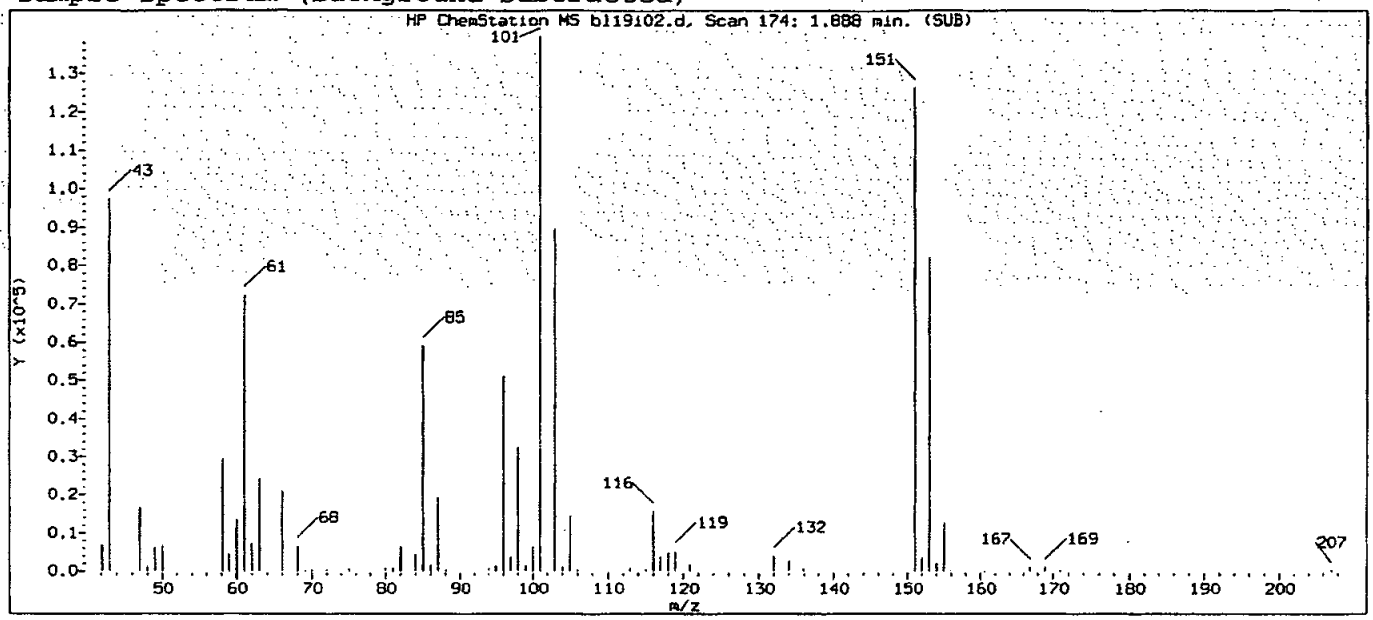
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:58. Target 3.5 esignature user ID: ads01731

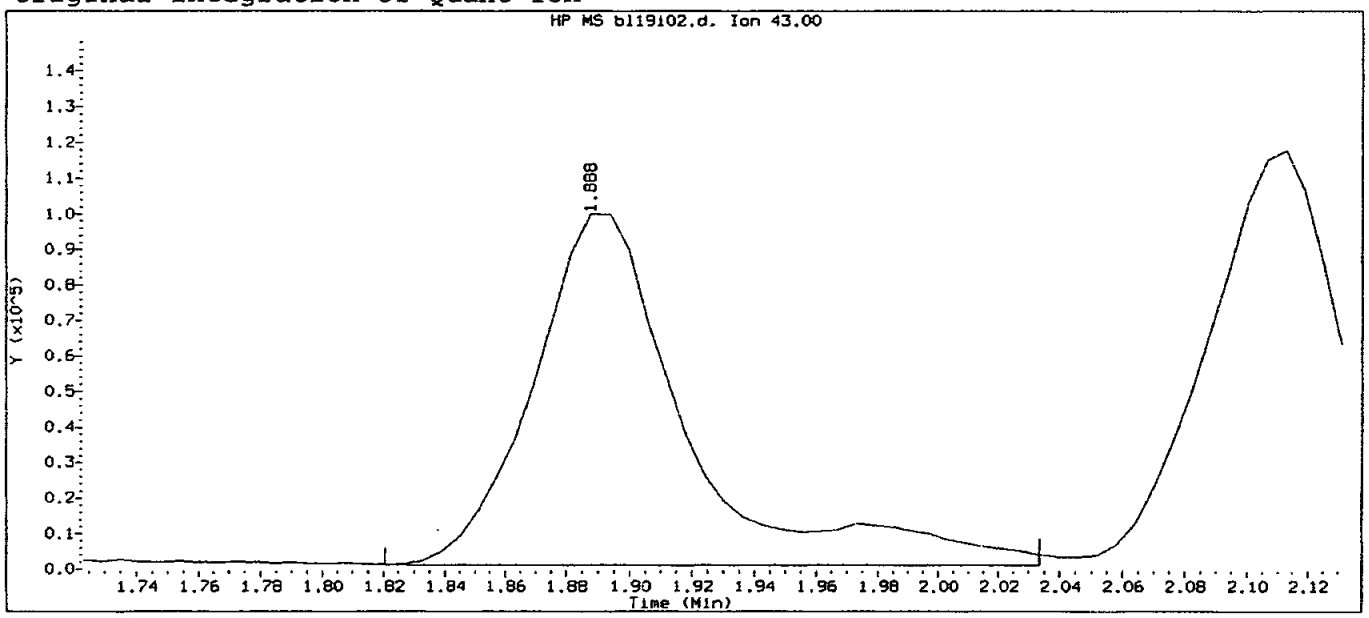
GC/MS audit/management approval: _____ 07/20/2

ASX73 9150

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 10:34
Date, time and analyst ID of latest file update: 19-Jul-2012 10:34 Automation

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 17
Compound Name : Acetone
Scan Number : 174
Retention Time (minutes): 1.888
Quant Ion : 43.00
Area : 339768
On-column Amount (ng) : 224.3090
Integration start scan : 162 Integration stop scan: 197
Y at integration start : 1073 Y at integration end: 1073

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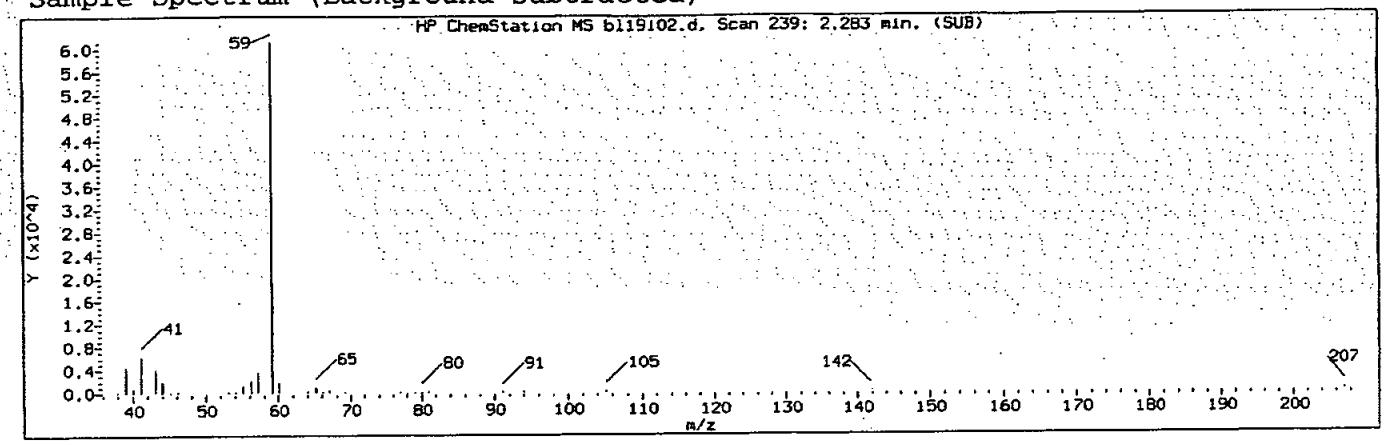
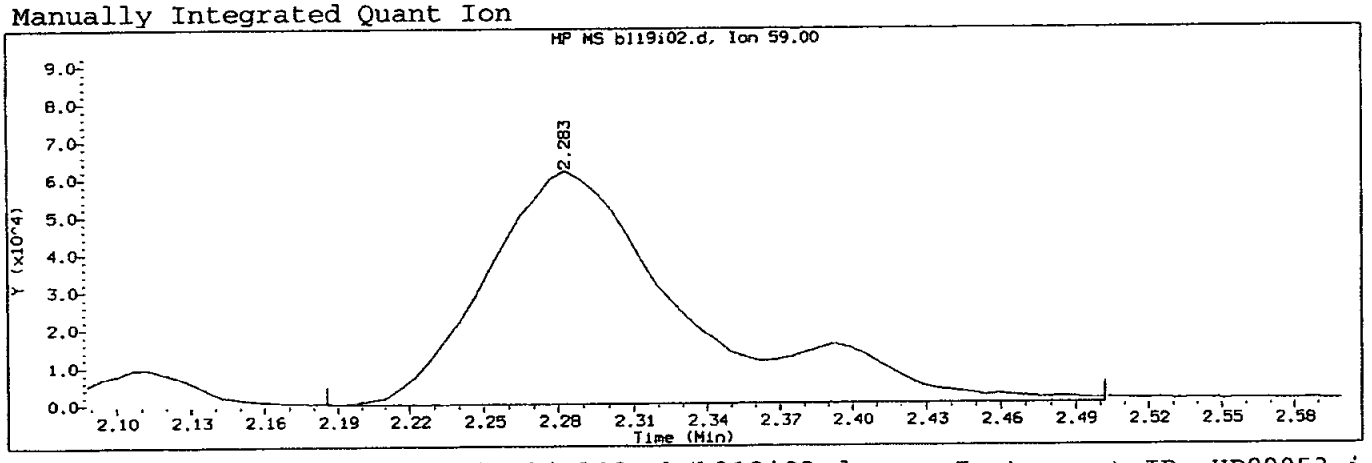
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 239		
Retention Time (minutes)	: 2.283		
Quant Ion	: 59.00		
Area (flag)	: 349152M		
On-Column Amount (ng)	: 537.7167		
Integration start scan	: 222	Integration stop scan:	274
Y at integration start	: 0	Y at integration end:	0

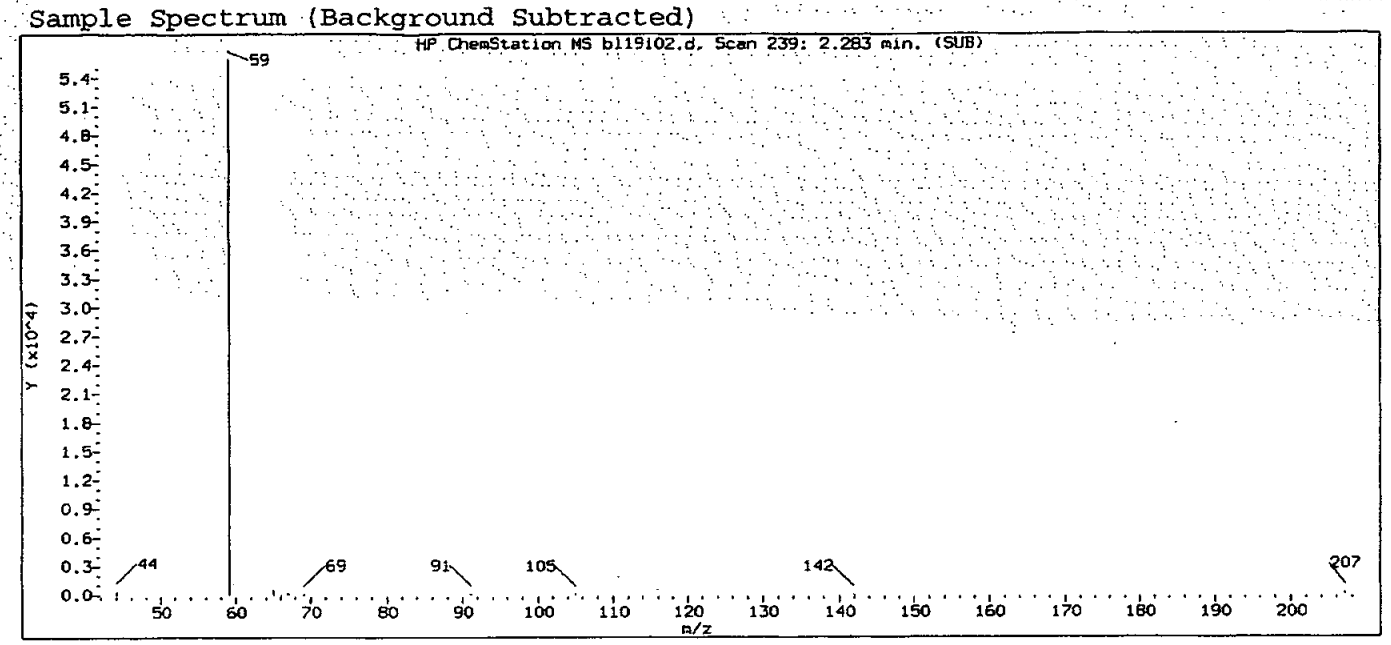
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:58. Target 3.5 esignature user ID: ads01731

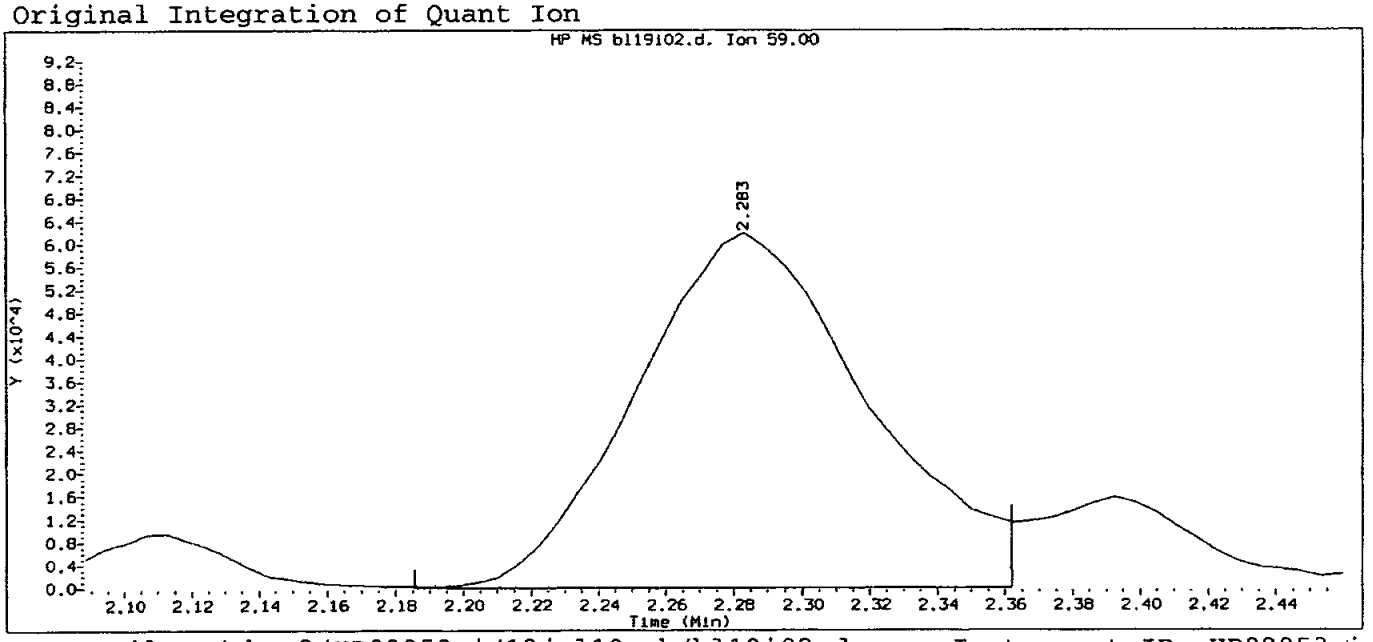
GC/MS audit/management approval: _____ 7/20/12

ASX73 9152

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 10:34
Date, time and analyst ID of latest file update: 19-Jul-2012 10:34 Automation

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 239
Retention Time (minutes): 2.283
Quant Ion : 59.00
Area : 291767
On-column Amount (ng) : 588.4340
Integration start scan : 222 Integration stop scan: 251
Y at integration start : 0 Y at integration end: 0

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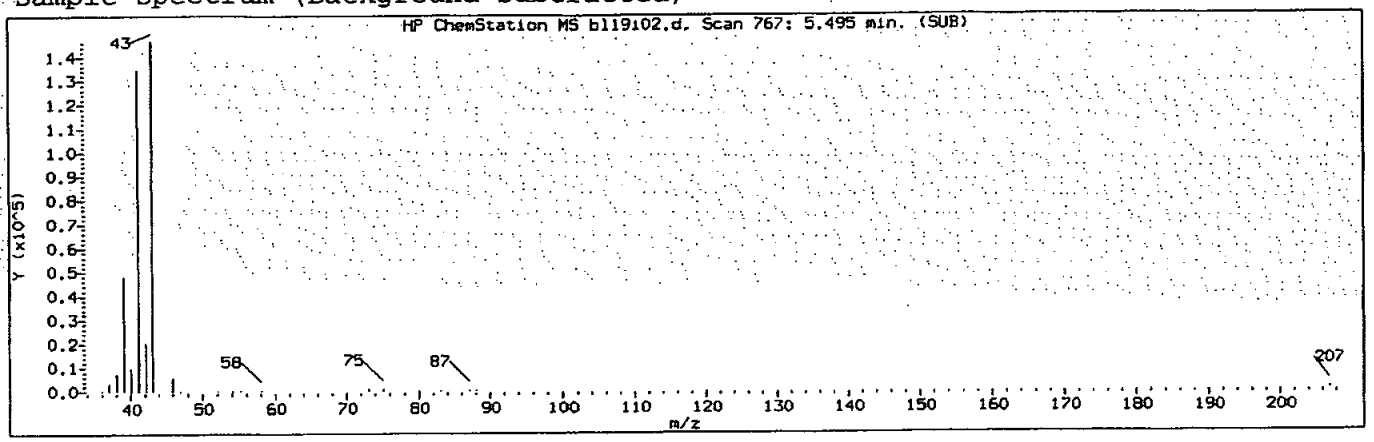
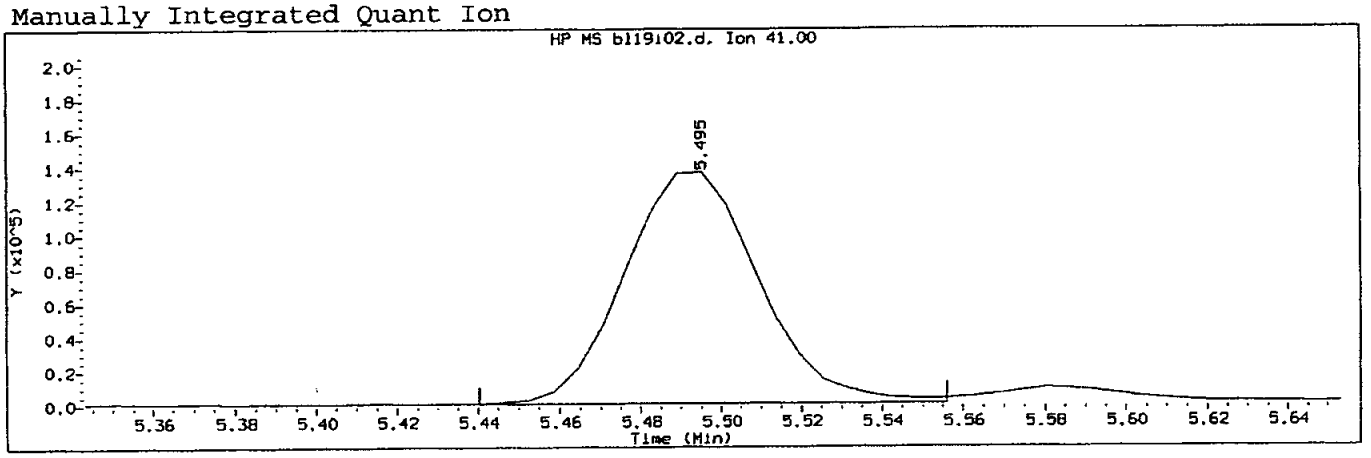
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 84		
Compound Name	: 2-Nitropropane		
Scan Number	: 767		
Retention Time (minutes)	: 5.495		
Quant Ion	: 41.00		
Area (flag)	: 316844A		
On-Column Amount (ng)	: 227.4542		
Integration start scan	: 757	Integration stop scan:	776
Y at integration start	: 761	Y at integration end:	761

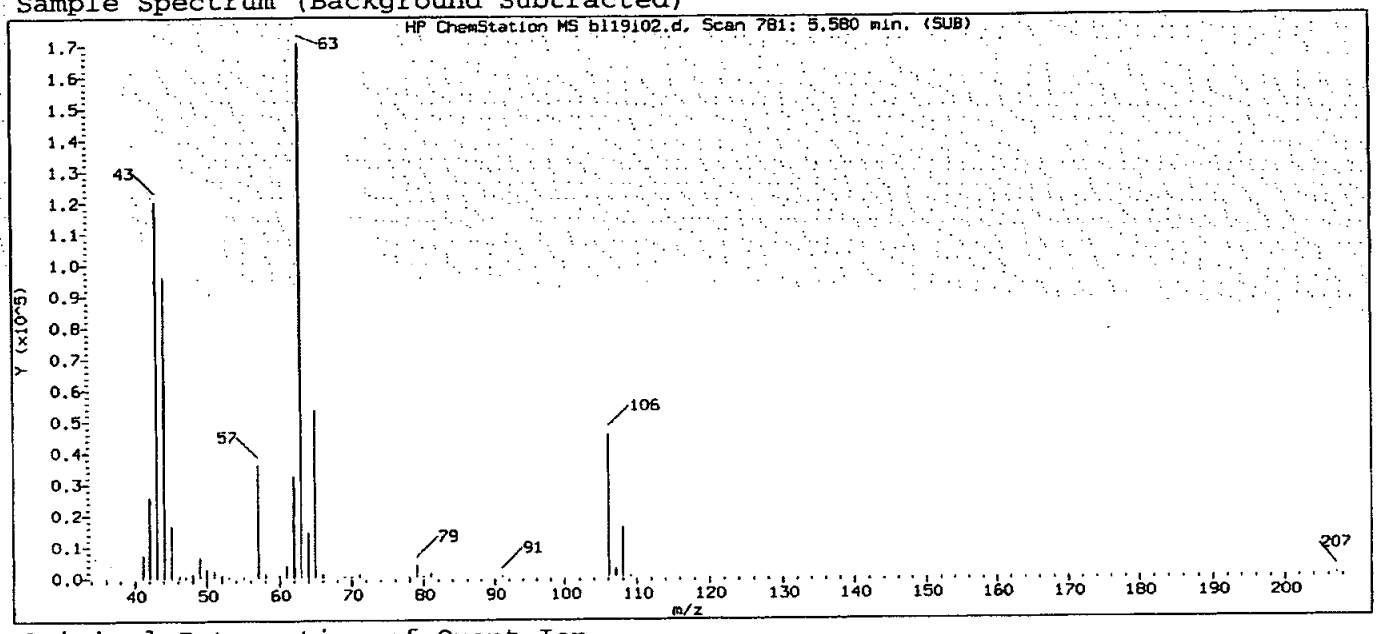
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:58. Target 3.5 esignature user ID: ads01731

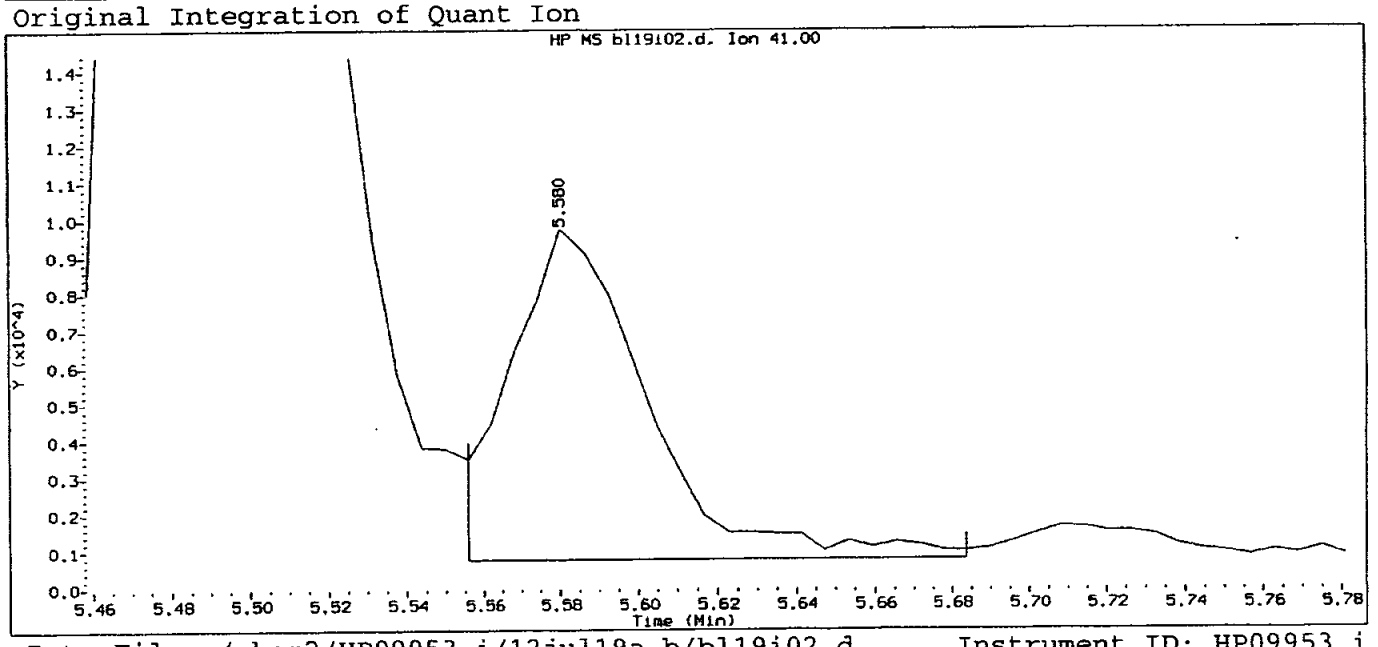
GC/MS audit/management approval: AMiller 07/20/12

ASX73 8154

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 10:34
Date, time and analyst ID of latest file update: 19-Jul-2012 10:34 Automation

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 84		
Compound Name	: 2-Nitropropane		
Scan Number	: 781		
Retention Time (minutes)	: 5.580		
Quant Ion	: 41.00		
Area	: 21910		
On-column Amount (ng)	: 36.1268		
Integration start scan	: 776	Integration stop scan:	797
Y at integration start	: 761	Y at integration end:	761

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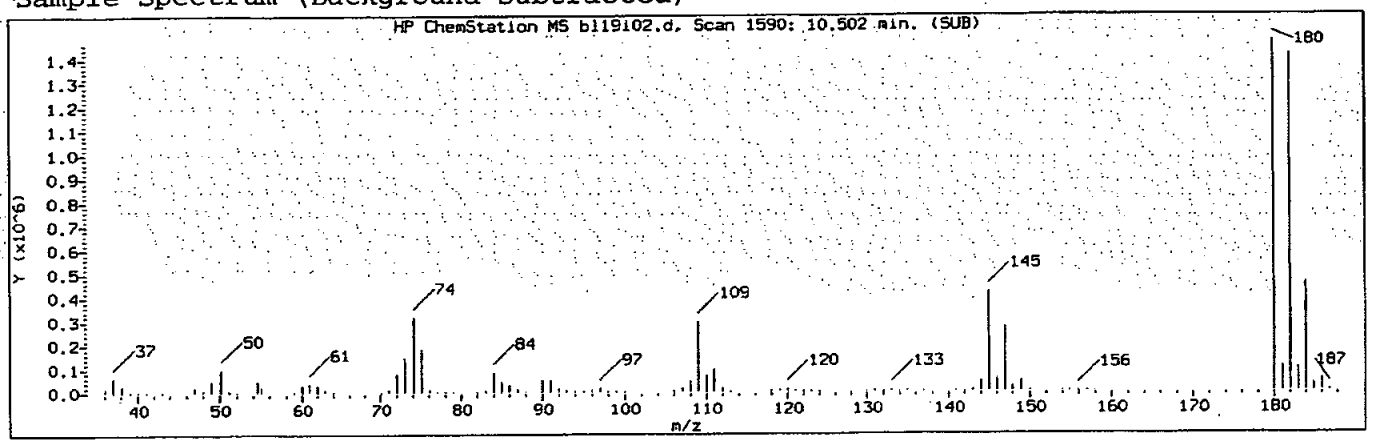
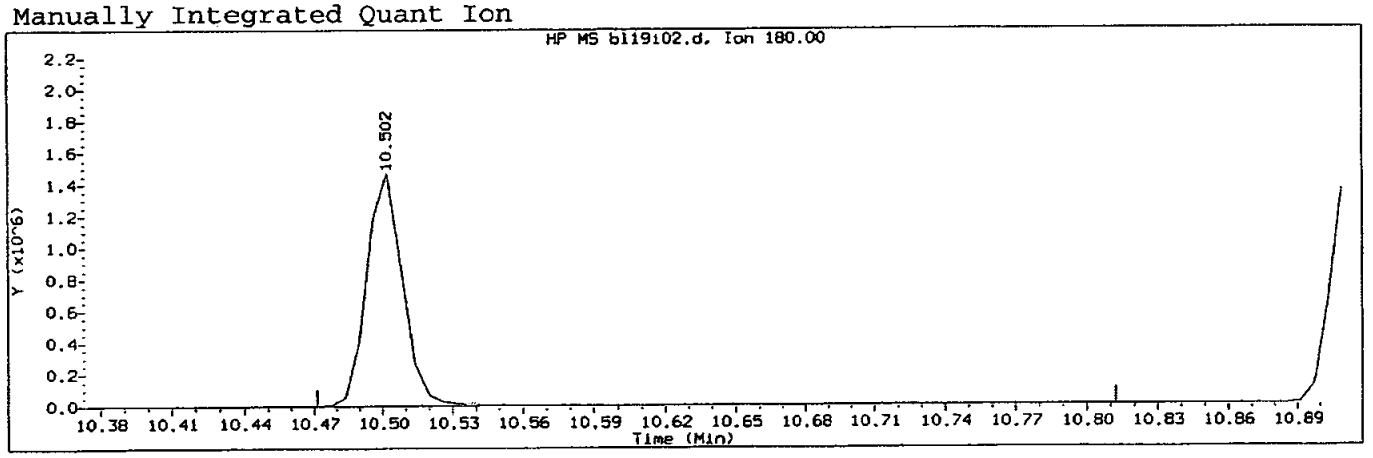
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Scan Number : 1590
Retention Time (minutes): 10.502
Quant Ion : 180.00
Area (flag) : 1618339M
On-Column Amount (ng) : 103.2229
Integration start scan : 1584 Integration stop scan: 1640
Y at integration start : 0 Y at integration end: 0

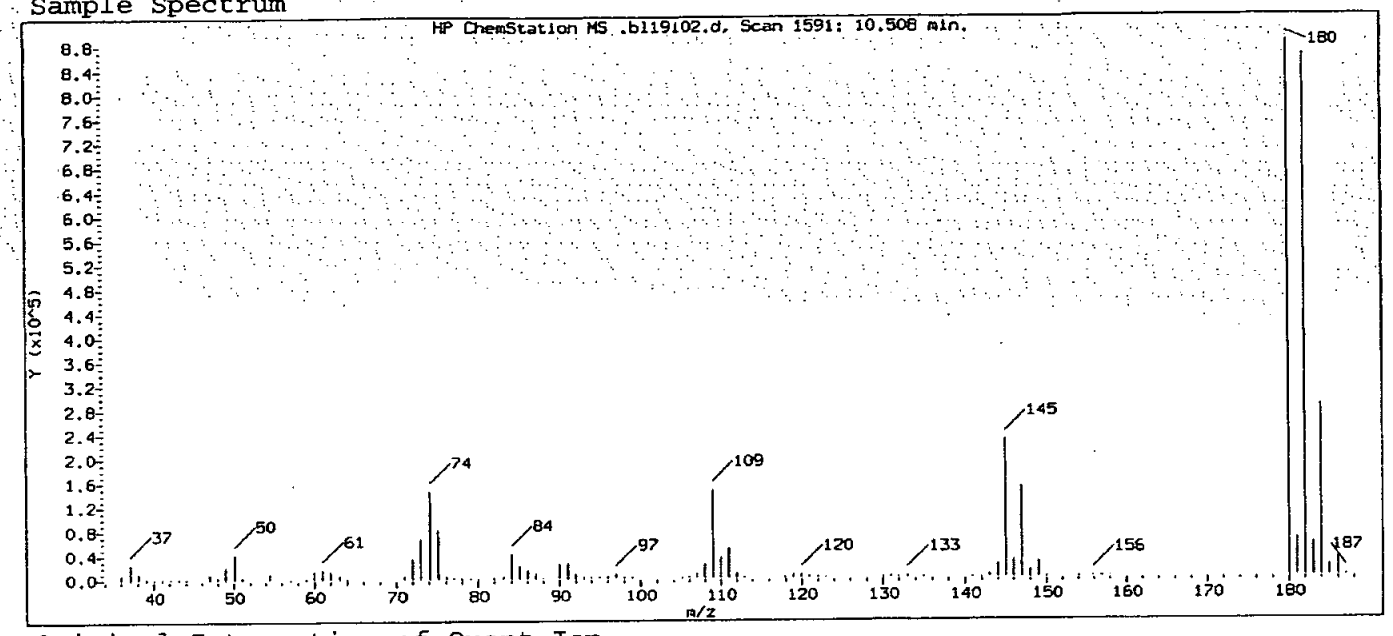
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:58. Target 3.5 esignature user ID: ads01731

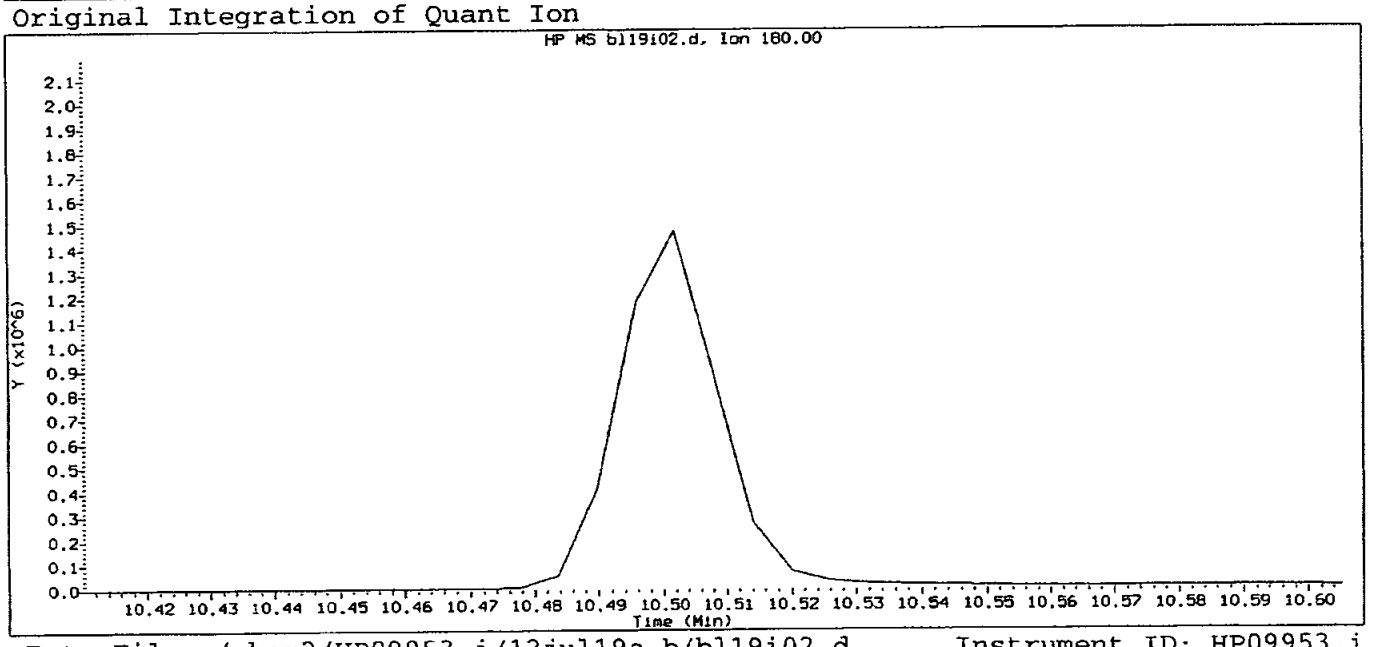
GC/MS audit/management approval: _____

ASX73 0156

Sample Spectrum



Original Integration of Quant Ion



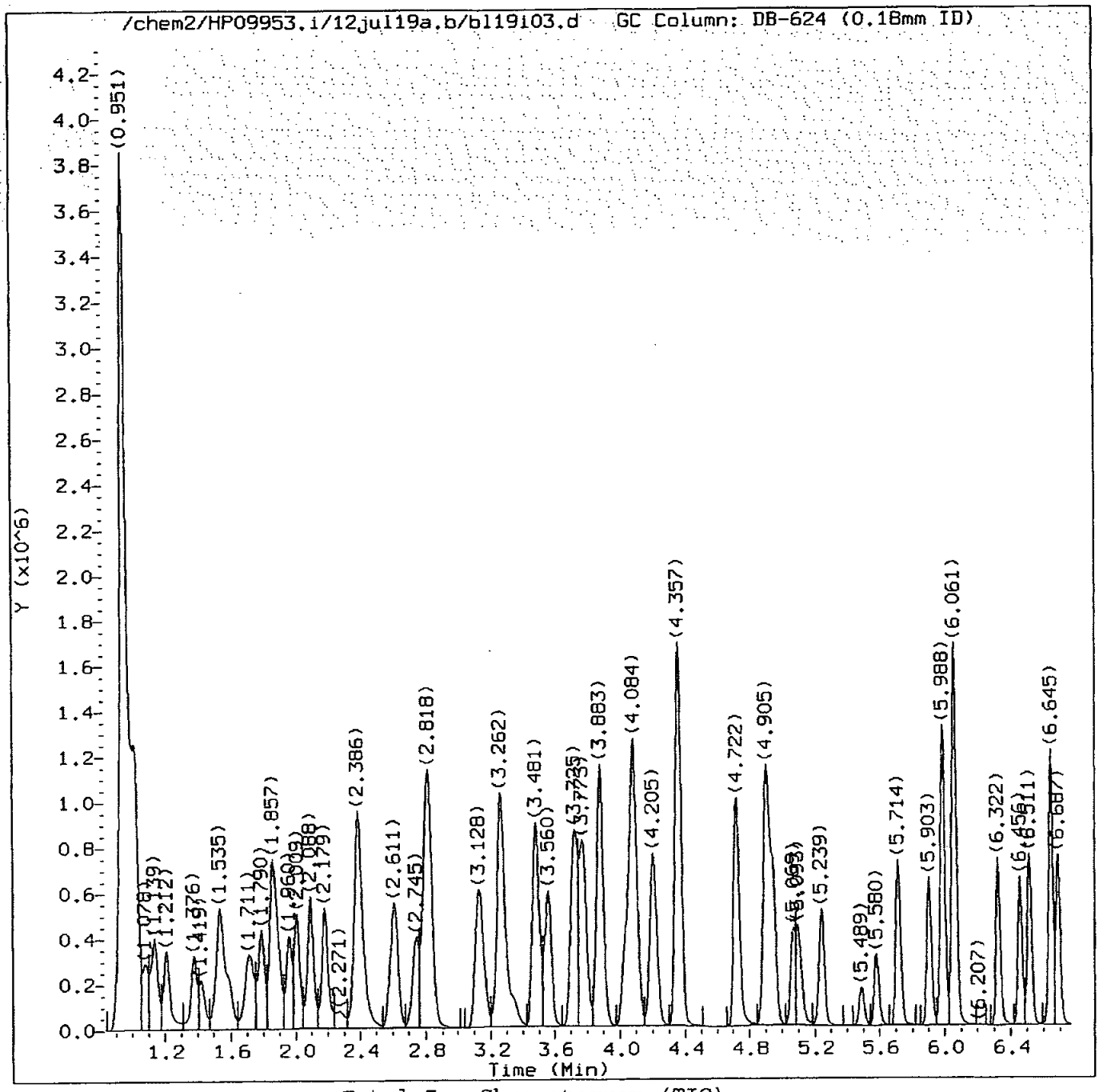
Data File: /chem2/HP09953.i/12jul19a.b/bl19i02.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 10:17 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 10:34
Date, time and analyst ID of latest file update: 19-Jul-2012 10:34 Automation

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Expected RT (minutes) : 10.508
Quant Ion : 180.00

Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:58.
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d
Injection date and time: 19-JUL-2012 11:01

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 19-JUL-2012 12:56

Sublist used: 8260SI-E

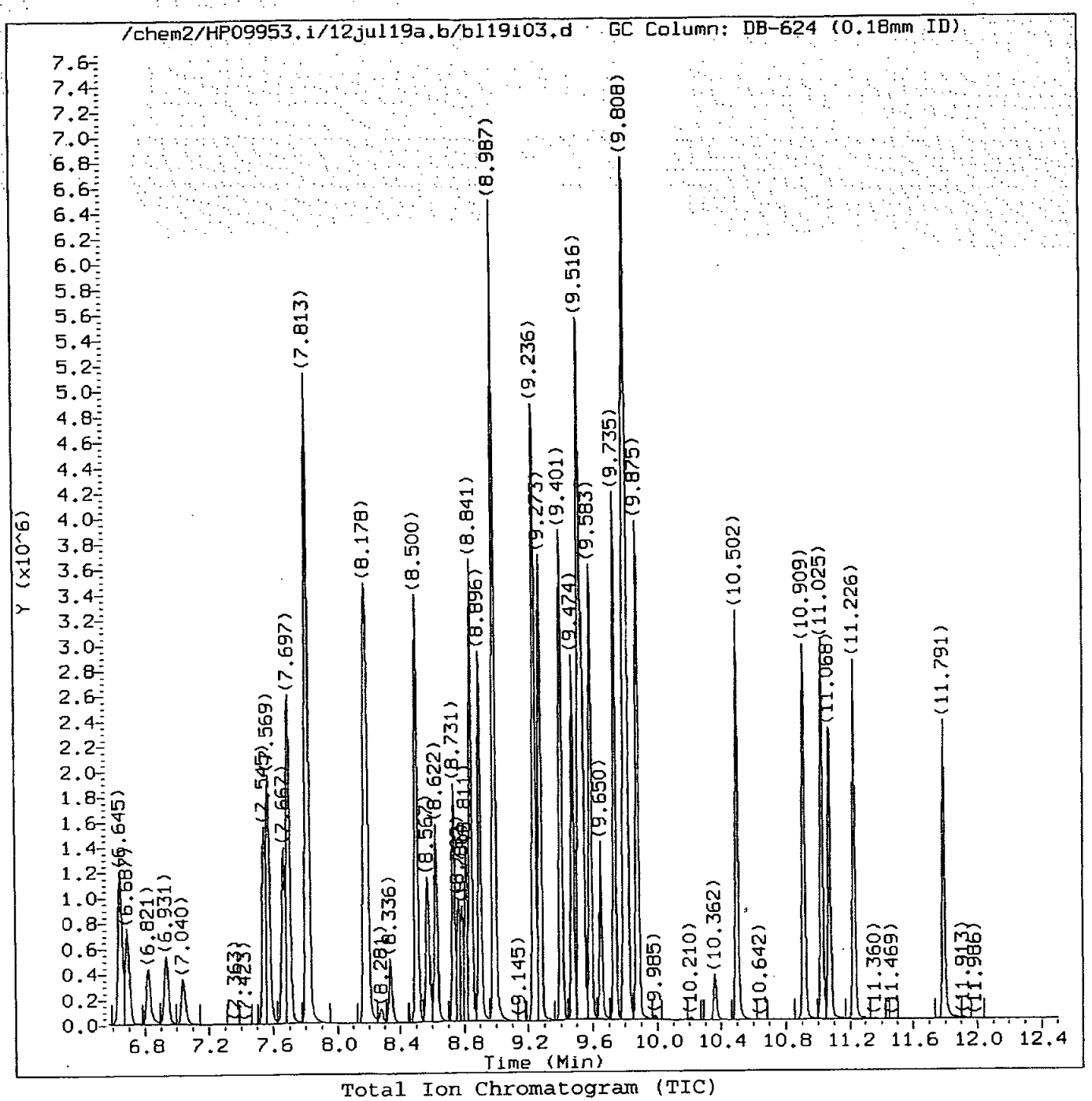
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050

Lab Sample ID: VSTD050

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

ASX73 9158



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d
Injection date and time: 19-JUL-2012 11:01

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sublist used: 8260SI-E

Sample Name: VSTD050

Lab Sample ID: VSTD050

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

ASX73 0159

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.084	85	474648	44.663
3) Chloromethane	(1)	1.139	50	489561	45.780
4) Vinyl Chloride	(1)	1.212	62	428445	45.831
6) Bromomethane	(1)	1.376	94	286723	46.212
7) Chloroethane	(1)	1.425	64	230919	46.478
8) Dichlorofluoromethane	(1)	1.535	67	580715	46.247
9) Trichlorofluoromethane	(1)	1.547	101	497198	46.955
12) Freon 123a	(1)	1.711	67	356417	45.952
13) Acrolein	(4)	1.790	56	479984	528.309
14) 1,1-Dichloroethene	(1)	1.851	96	253188	49.174
18) Freon 113	(1)	1.881	101	285955	49.938
17) Acetone	(1)	1.881	43	133989	89.009
20) Methyl Iodide	(1)	1.960	142	519174	49.118
21) 2-Propanol	(4)	1.979	45	91741	259.670
23) Carbon Disulfide	(1)	2.009	76	825177	50.040
25) Allyl Chloride	(1)	2.088	41	468072	46.313
26) Methyl Acetate	(1)	2.100	43	162974	42.611
27) Methylene Chloride	(1)	2.179	84	306483M	46.026
28)*t-Butyl Alcohol-d10	(4)	2.210	65	84613	250.000
29) t-Butyl Alcohol	(4)	2.277	59	155790M	271.183
30) Acrylonitrile	(4)	2.374	53	104872	52.769
31) trans-1,2-Dichloroethene	(1)	2.386	96	323003	50.666
32) Methyl Tertiary Butyl Ether	(1)	2.398	73	830773	48.123
35) n-Hexane	(1)	2.611	57	470204	49.408
37) 1,1-Dichloroethane	(1)	2.739	63	581003	48.955
40) di-Isopropyl Ether	(1)	2.806	45	1099509	48.427
41) 2-Chloro-1,3-Butadiene	(1)	2.824	53	506865	49.589
43) Ethyl t-Butyl Ether	(1)	3.128	59	974329	47.887
44) cis-1,2-Dichloroethene	(1)	3.262	96	353906	48.729
45) 2,2-Dichloropropane	(1)	3.268	77	473751	49.159
46) 2-Butanone	(1)	3.287	43	247847	93.462
48) Propionitrile	(4)	3.348	54	183866	260.161
50) Bromochloromethane	(1)	3.481	128	166693	47.890
49) Methacrylonitrile	(4)	3.481	67	268396	130.100
51) Tetrahydrofuran	(4)	3.530	71	65105	101.683
52) Chloroform	(1)	3.560	83	582005	48.017
53)$Dibromofluoromethane	(1)	3.712	113	255689	49.761
54)$Dibromofluoromethane(mz111)	(1)	3.712	111	259840	49.601

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	3.731	97	611214	44.448
57) Cyclohexane	(1)	3.779	56	591853	49.182
58) Cyclohexane(mz84)	(1)	3.779	84	484685	49.449
56) Cyclohexane(mz69)	(1)	3.779	69	179921	49.975
60) Carbon Tetrachloride	(1)	3.883	117	444282	50.006
59) 1,1-Dichloropropene	(1)	3.883	75	451443	49.811
62)$1,2-Dichloroethane-d4	(1)	4.029	102	52729	48.666
63)$1,2-Dichloroethane-d4(mz65)	(1)	4.029	65	258411	49.303
61)$1,2-Dichloroethane-d4(mz104)	(1)	4.035	104	34816	49.801
64) Isobutyl Alcohol	(4)	4.047	41	119813	655.994
65) Benzene	(1)	4.084	78	1339101	49.218
67) 1,2-Dichloroethane(mz98)	(1)	4.102	98	37408	47.593
66) 1,2-Dichloroethane	(1)	4.102	62	408546	48.549
71) t-Amyl Methyl Ether	(1)	4.205	73	856884	47.656
72) n-Heptane	(1)	4.357	43	550004	49.483
73)*Fluorobenzene	(1)	4.357	96	1082601	50.000
69) 1,2-Dichloroethene (total)	(1)		96	676909	99.269
74) n-Butanol	(4)	4.716	56	195464	1334.351
75) Trichloroethene	(1)	4.722	95	354238	49.239
77) Methylcyclohexane	(1)	4.905	83	601786	49.016
76) Methylcyclohexane(mz98)	(1)	4.905	98	268722	48.789
78) 1,2-Dichloropropane	(1)	4.947	63	347290	49.310
79) Dibromomethane	(1)	5.069	93	192947	48.233
81) 1,4-Dioxane	(4)	5.100	88	38835	687.314
80) Methyl Methacrylate	(1)	5.100	69	192409	47.170
83) Bromodichloromethane	(1)	5.239	83	414197	49.815
84) 2-Nitropropane	(4)	5.489	41	130077A	105.544
86) 2-Chloroethyl Vinyl Ether	(1)	5.580	63	160930	47.782
87) cis-1,3-Dichloropropene	(1)	5.714	75	495163	50.096
89) 4-Methyl-2-Pentanone	(1)	5.903	43	556263	97.174
90)$Toluene-d8	(2)	5.988	98	1032368	50.540
91)$Toluene-d8(mz100)	(2)	5.988	100	678824	50.521
92) Toluene	(2)	6.061	92	875950	50.030
93) trans-1,3-Dichloropropene	(2)	6.322	75	438912	51.208
95) Ethyl Methacrylate	(2)	6.456	69	375460	49.809
96) 1,1,2-Trichloroethane	(2)	6.511	97	263329	49.726
97) Tetrachloroethene	(2)	6.645	166	416070	50.484
98) 1,3-Dichloropropane	(2)	6.687	76	442182	49.558

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Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
100) 2-Hexanone	(2)	6.821	58	189839	97.807
103) Dibromochloromethane	(2)	6.931	129	309503	51.411
105) 1,2-Dibromoethane	(2)	7.040	107	268480	49.322
106)*Chlorobenzene-d5	(2)	7.545	117	757818	50.000
107) Chlorobenzene	(2)	7.569	112	965903	50.557
108) 1,1,1,2-Tetrachloroethane	(2)	7.667	131	356042	52.180
109) Ethylbenzene	(2)	7.697	91	1694354	51.344
110) m+p-Xylene	(2)	7.813	106	1348983	102.897
113) o-Xylene	(2)	8.172	106	675028	51.228
112) Xylene (Total)	(2)		106	2024011	154.125
115) Styrene	(2)	8.190	104	1104075	51.829
116) Bromoform	(2)	8.342	173	212577	51.626
117) Isopropylbenzene	(2)	8.500	105	1787703	51.991
118) Cyclohexanone	(4)	8.567	55	450755A	679.010
120)$4-Bromofluorobenzene	(2)	8.622	95	370212	49.750
121)$4-Bromofluorobenzene(mz174)	(2)	8.622	174	348690	50.228
122) Bromobenzene	(3)	8.731	156	453539	49.727
123) 1,1,2,2-Tetrachloroethane	(3)	8.762	83	350709	48.195
124) 1,2,3-Trichloropropane	(3)	8.786	110	98620	48.430
125) trans-1,4-Dichloro-2-Butene	(3)	8.811	53	233671M	121.904
126) n-Propylbenzene	(3)	8.841	91	2081228	52.017
127) 2-Chlorotoluene	(3)	8.896	126	435849	50.624
129) 4-Chlorotoluene	(3)	8.987	126	444633	51.048
128) 1,3,5-Trimethylbenzene	(3)	8.987	105	1535400	51.833
131) tert-Butylbenzene	(3)	9.236	134	355753	51.867
132) Pentachloroethane	(3)	9.242	167	269125	50.060
133) 1,2,4-Trimethylbenzene	(3)	9.273	105	1565079	51.597
134) sec-Butylbenzene	(3)	9.401	105	1988931	52.424
135) 1,3-Dichlorobenzene	(3)	9.474	146	877188	50.643
136) p-Isopropyltoluene	(3)	9.516	119	1758778	52.636
137)*1,4-Dichlorobenzene-d4	(3)	9.522	152	444149	50.000
138) 1,4-Dichlorobenzene	(3)	9.541	146	907335	49.722
139) 1,2,3-Trimethylbenzene	(3)	9.583	105	1507043	49.497
140) Benzyl Chloride	(3)	9.650	91	699156	51.498
141) 1,3-Diethylbenzene	(3)	9.735	119	988767	50.334
142) 1,4-Diethylbenzene	(3)	9.796	119	1031686	50.478
144) 1,2-Dichlorobenzene	(3)	9.808	146	836990	50.761
143) n-Butylbenzene	(3)	9.814	92	865057	52.342

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A = User selected an alternate hit.
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$ = Compound is a surrogate standard.

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on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

ASX73 9162

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
145) 1,2-Diethylbenzene	(3)	9.875	119	839578	49.156
147) 1,2-Dibromo-3-Chloropropane	(3)	10.362	75	64362	49.038
149) 1,3,5-Trichlorobenzene	(3)	10.502	180	783826M	51.215
150) 1,2,4-Trichlorobenzene	(3)	10.909	180	686444	51.345
152) Hexachlorobutadiene	(3)	11.025	225	404193	52.740
153) Naphthalene	(3)	11.074	128	1379074	50.536
154) 1,2,3-Trichlorobenzene	(3)	11.226	180	636855	50.621
155) 2-Methylnaphthalene	(3)	11.791	142	813629	49.569

M = Compound was manually integrated.

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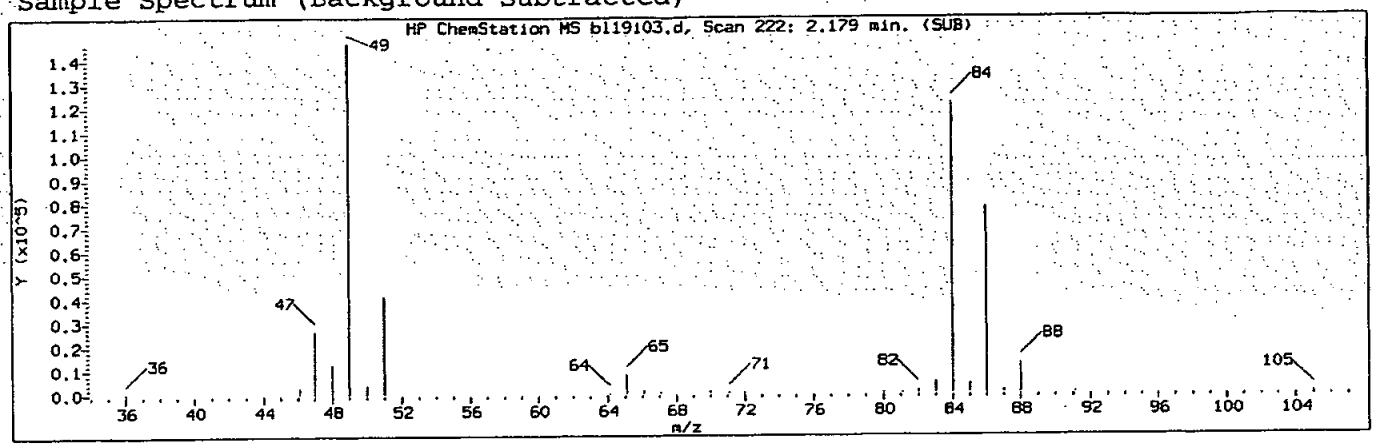
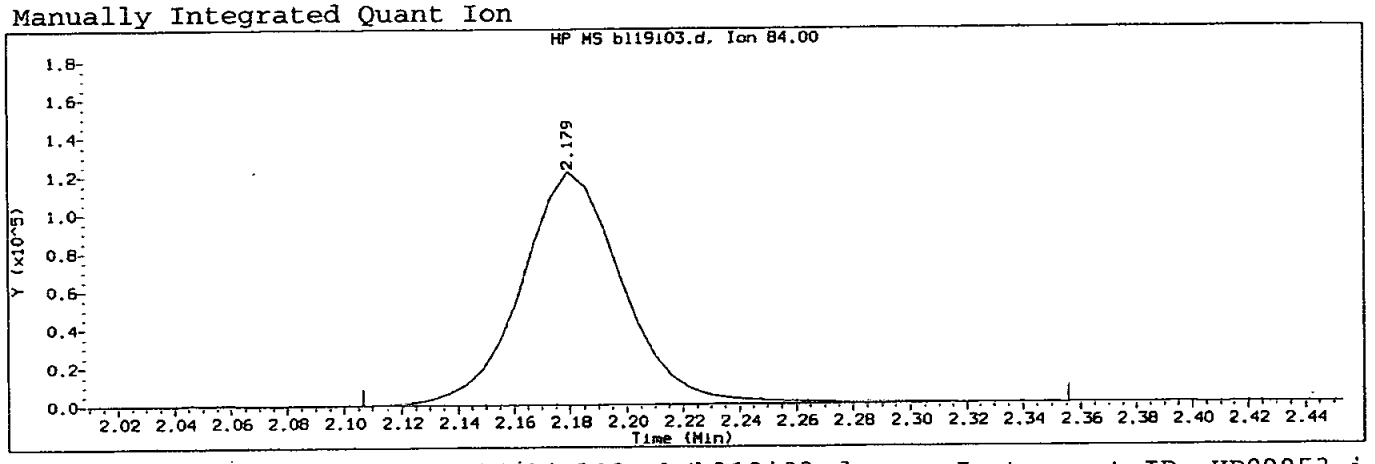
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

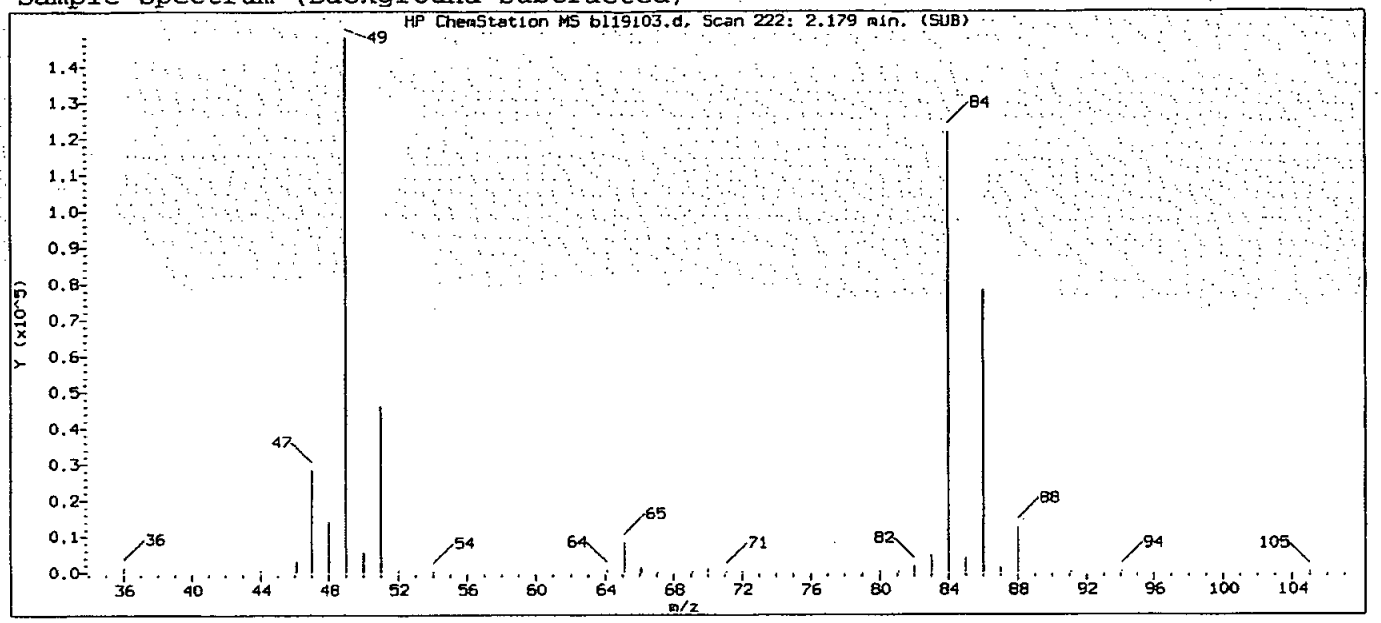
Compound Number	: 27		
Compound Name	: Methylene Chloride		
Scan Number	: 222		
Retention Time (minutes)	: 2.179		
Quant Ion	: 84.00		
Area (flag)	: 306483M		
On-Column Amount (ng)	: 46.0261		
Integration start scan	: 209	Integration stop scan:	250
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

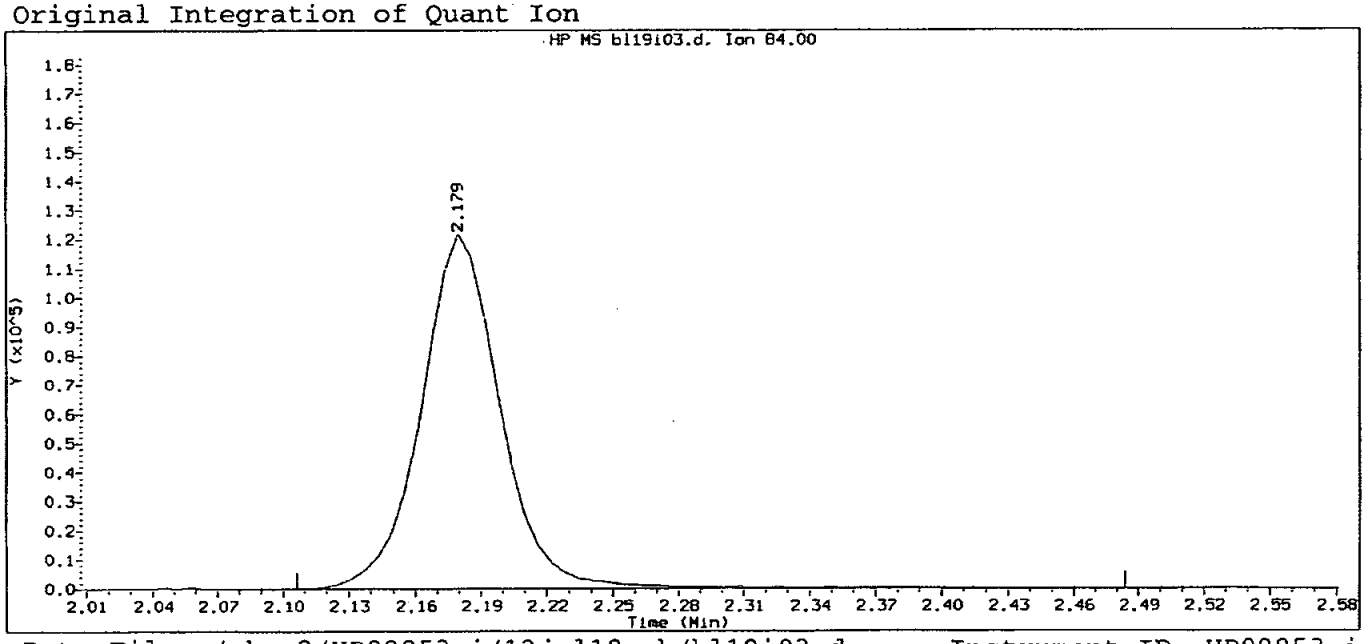
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: _____ 07/2012

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 11:17
Date, time and analyst ID of latest file update: 19-Jul-2012 11:17 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 27
Compound Name : Methylene Chloride
Scan Number : 222
Retention Time (minutes): 2.179
Quant Ion : 84.00
Area : 307545
On-column Amount (ng) : 50.6669
Integration start scan : 209 Integration stop scan: 271
Y at integration start : 0 Y at integration end: 0

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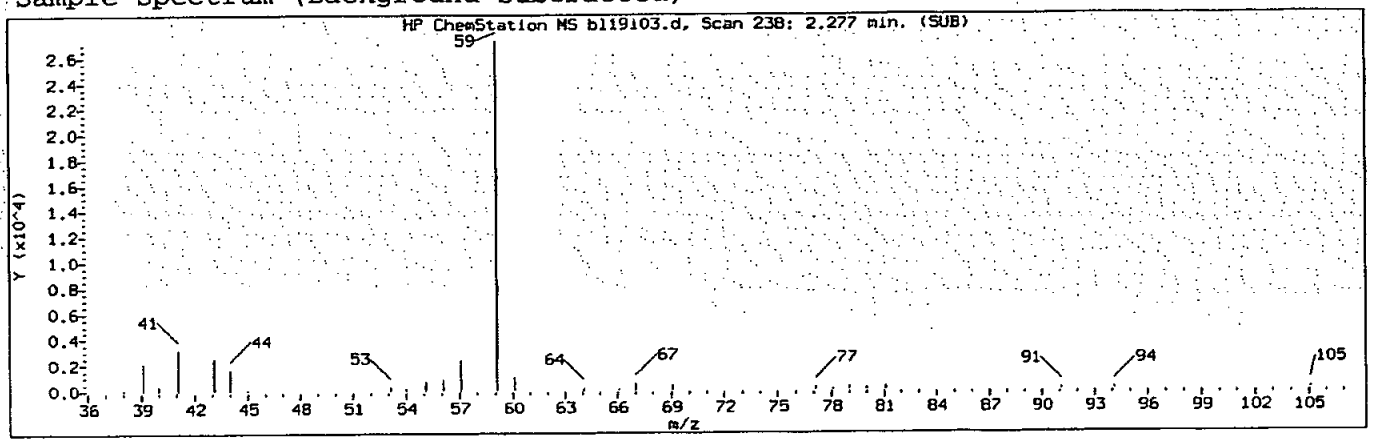
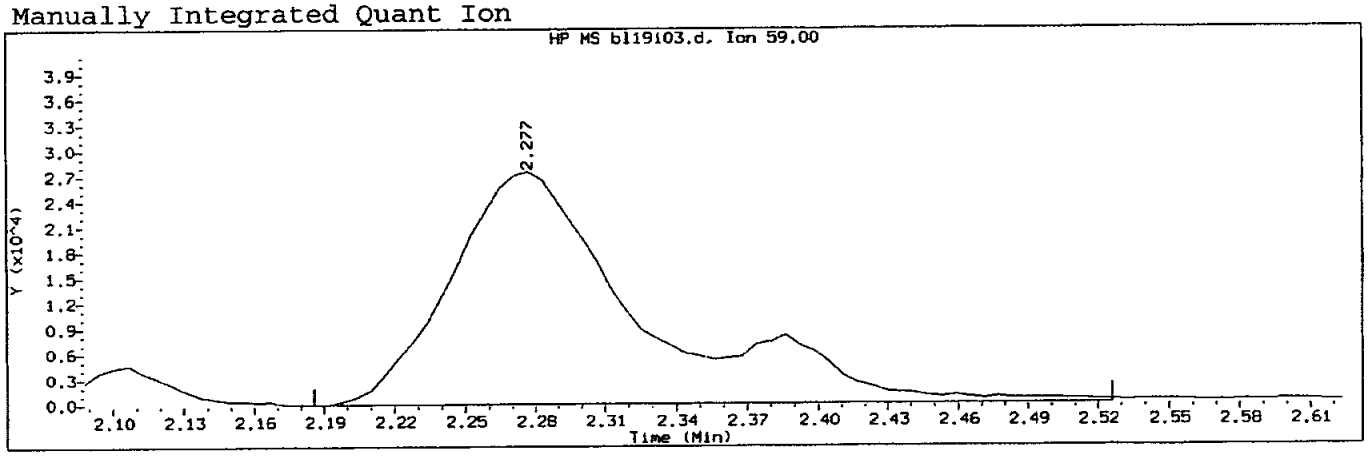
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

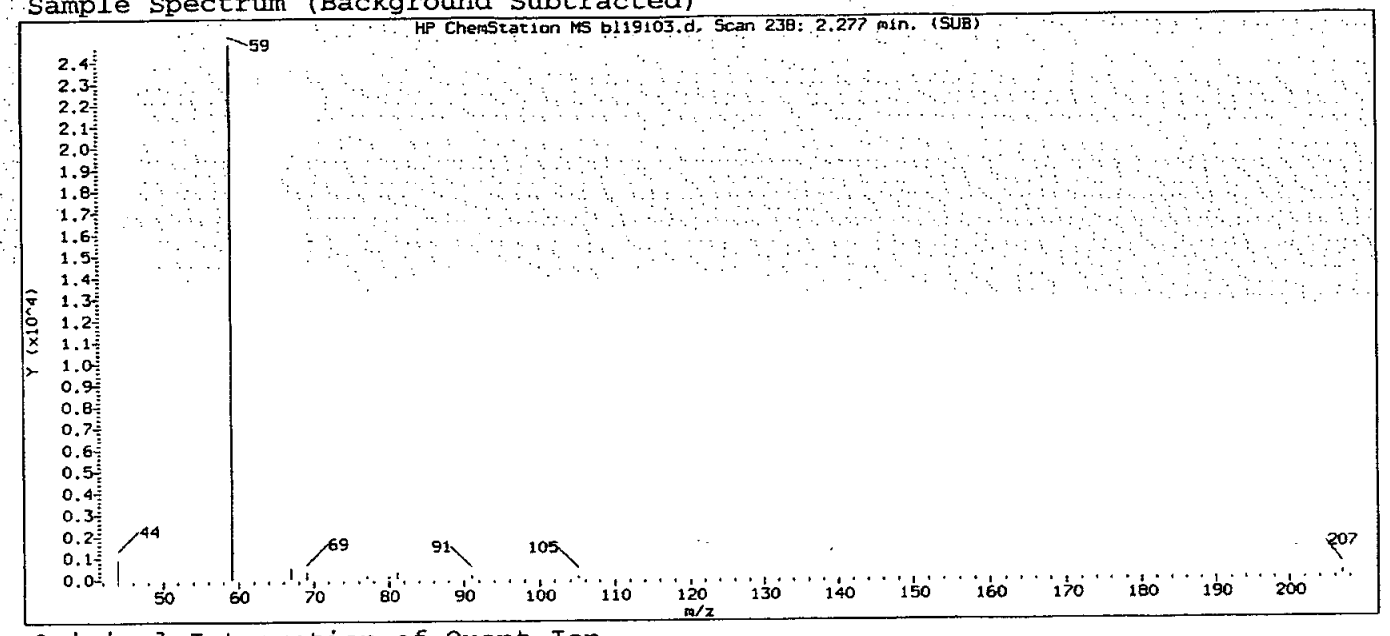
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 238		
Retention Time (minutes)	: 2.277		
Quant Ion	: 59.00		
Area (flag)	: 155790M		
On-Column Amount (ng)	: 271.1833		
Integration start scan	: 222	Integration stop scan:	278
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

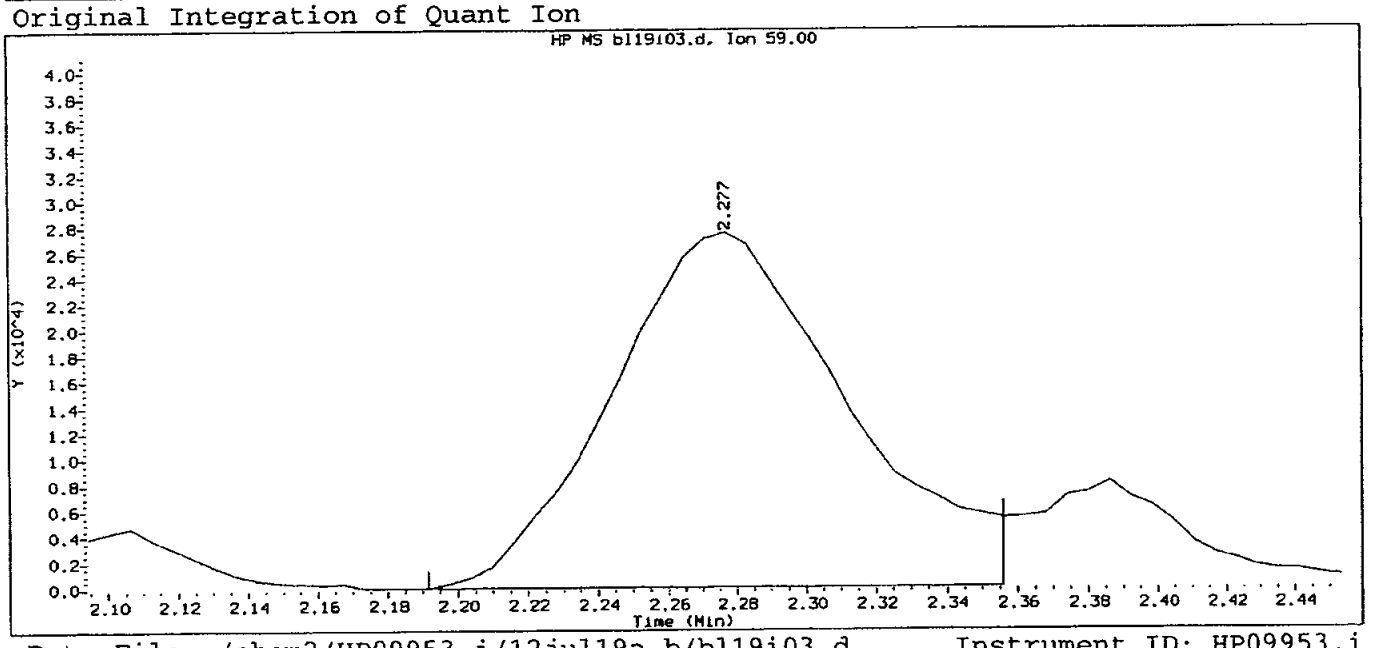
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: [signature] 07/2012

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 11:17
Date, time and analyst ID of latest file update: 19-Jul-2012 11:17 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 238		
Retention Time (minutes)	: 2.277		
Quant Ion	: 59.00		
Area	: 128270		
On-column Amount (ng)	: 255.7955		
Integration start scan	: 223	Integration stop scan:	250
Y at integration start	: 0	Y at integration end:	0

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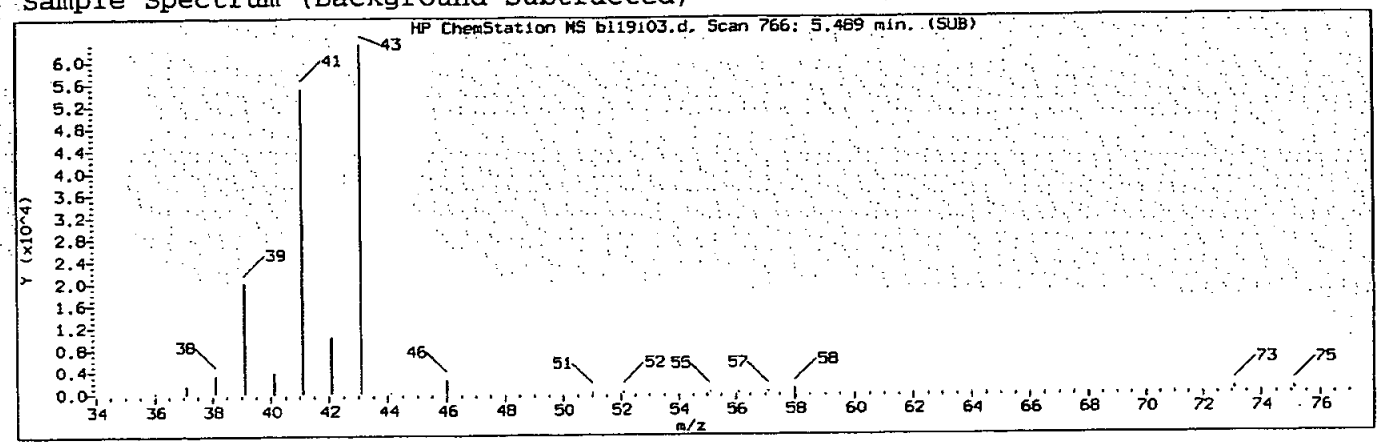
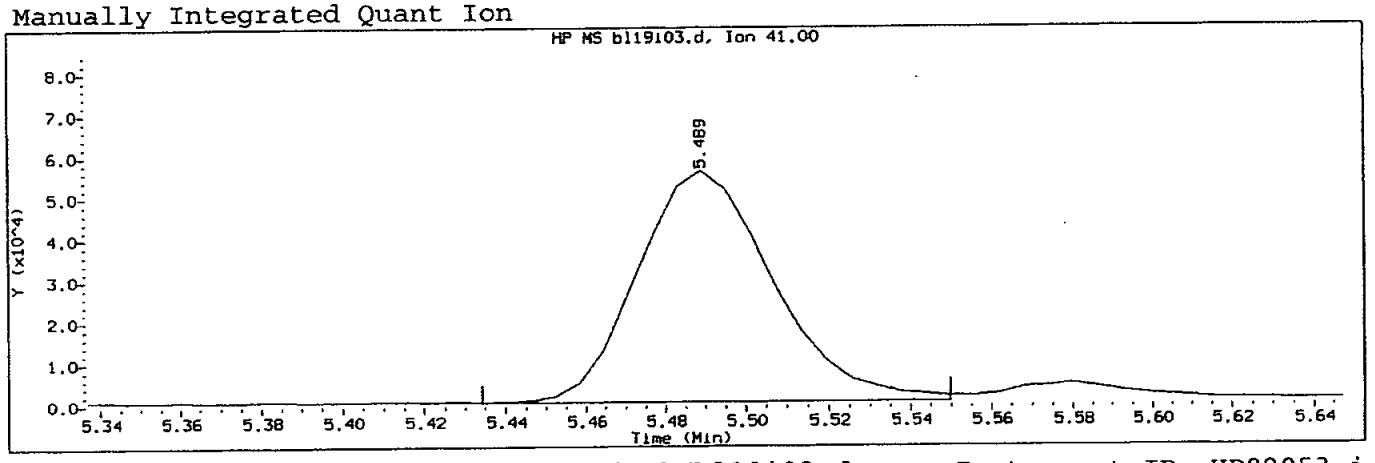
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

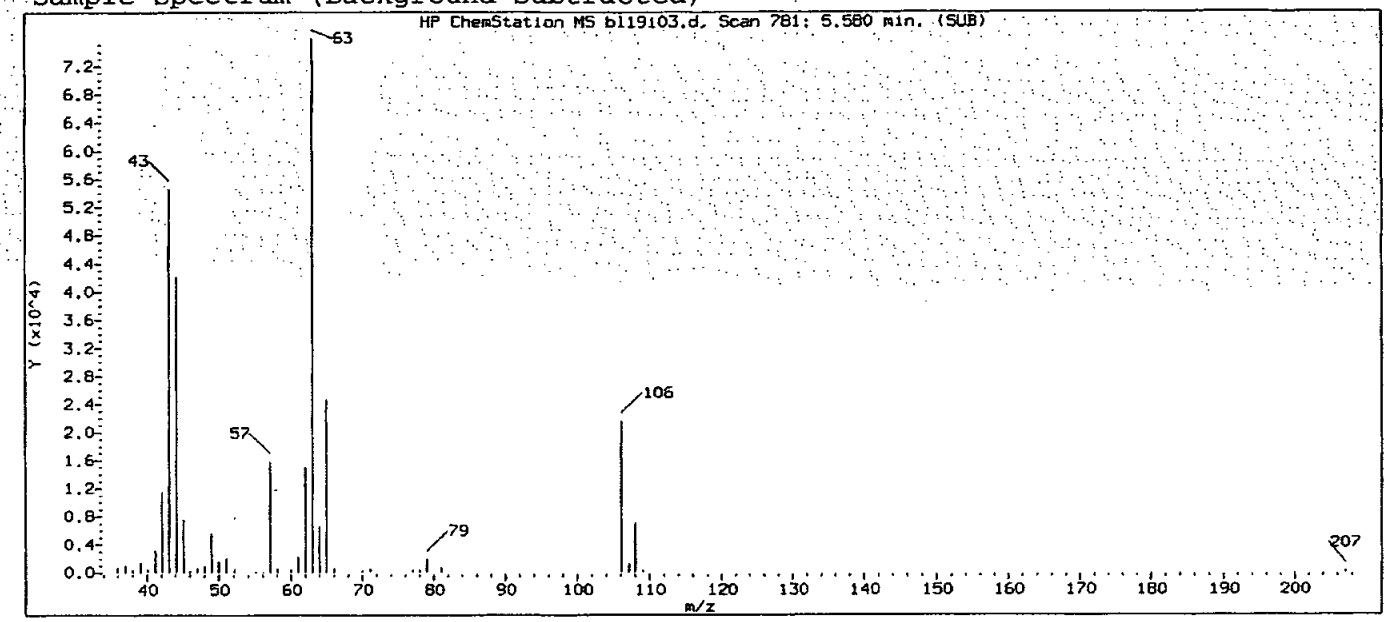
Compound Number	: 84		
Compound Name	: 2-Nitropropane		
Scan Number	: 766		
Retention Time (minutes)	: 5.489		
Quant Ion	: 41.00		
Area (flag)	: 130077A		
On-Column Amount (ng)	: 105.5440		
Integration start scan	: 756	Integration stop scan:	775
Y at integration start	: 514	Y at integration end:	514

Reason for manual integration: improper integration

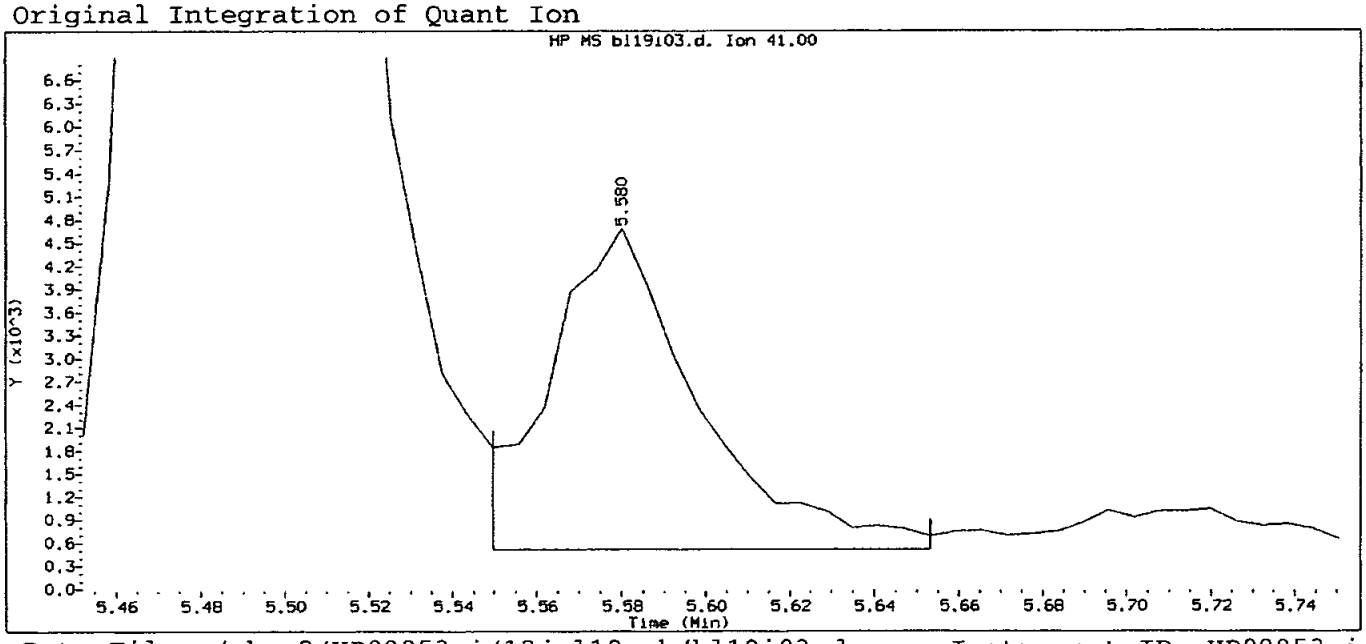
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 11:17
Date, time and analyst ID of latest file update: 19-Jul-2012 11:17 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 84
Compound Name : 2-Nitropropane
Scan Number : 781
Retention Time (minutes): 5.580
Quant Ion : 41.00
Area : 10110
On-column Amount (ng) : 108.5460
Integration start scan : 775 Integration stop scan: 792
Y at integration start : 514 Y at integration end: 514

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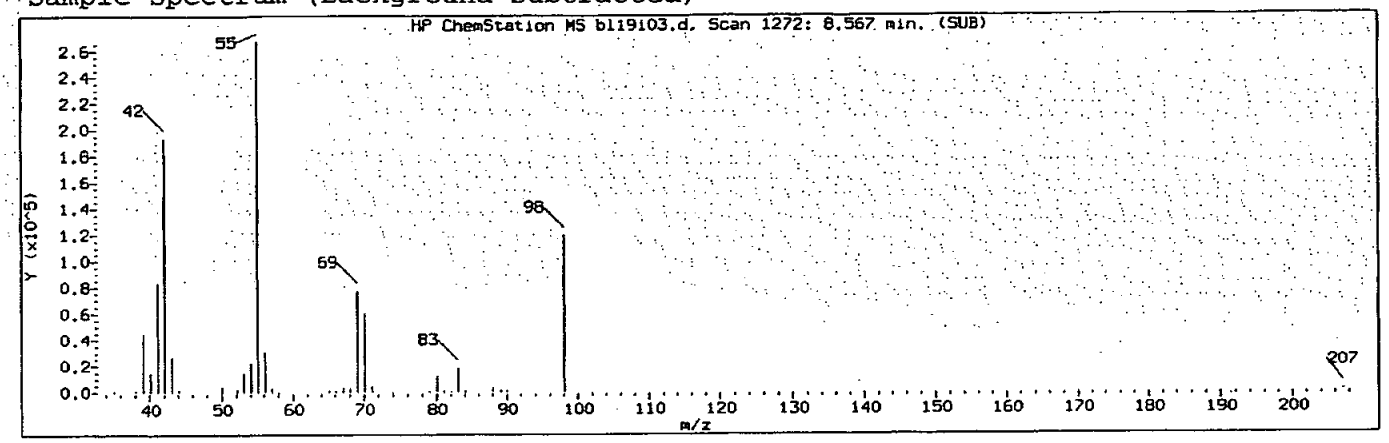
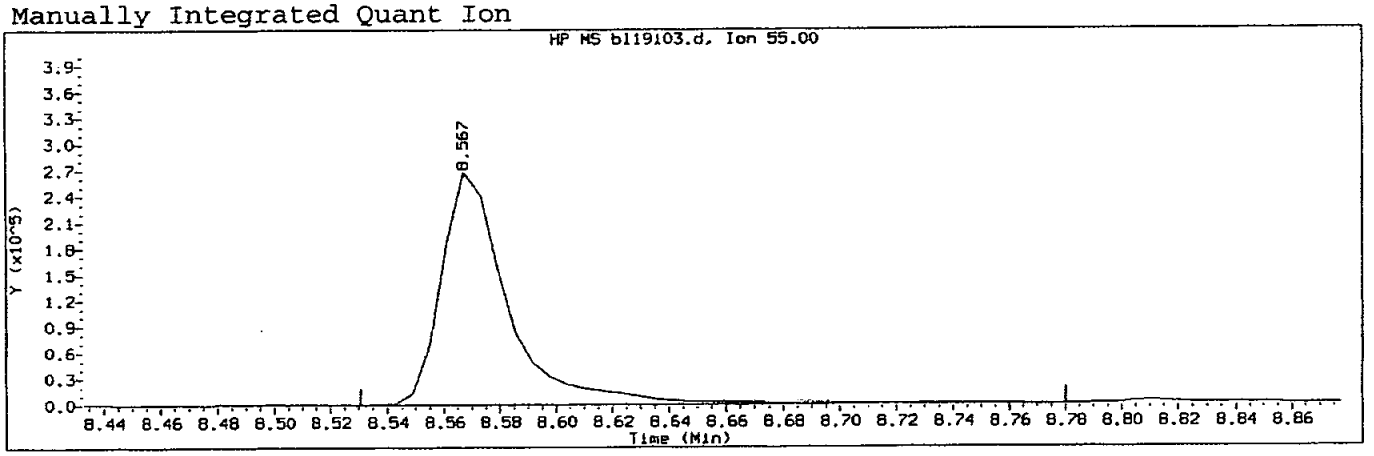
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

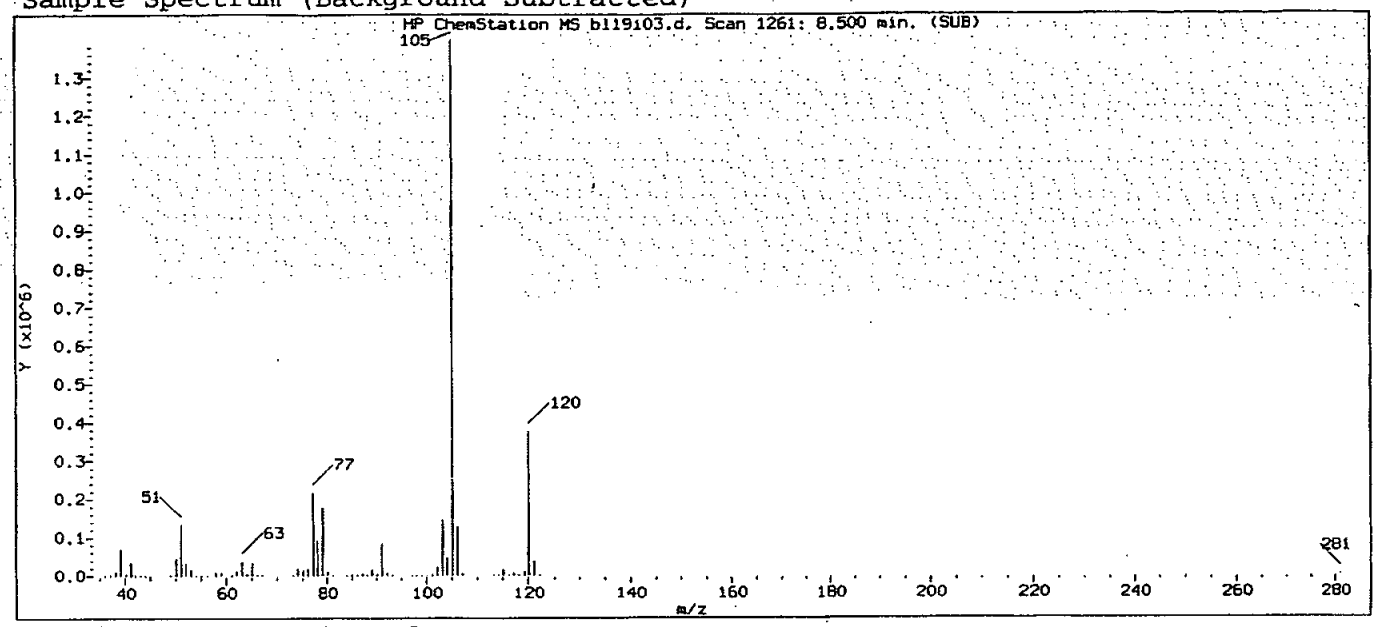
Compound Number : 118
Compound Name : Cyclohexanone
Scan Number : 1272
Retention Time (minutes): 8.567
Quant Ion : 55.00
Area (flag) : 450755A
On-Column Amount (ng) : 679.0100
Integration start scan : 1265 Integration stop scan: 1306
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

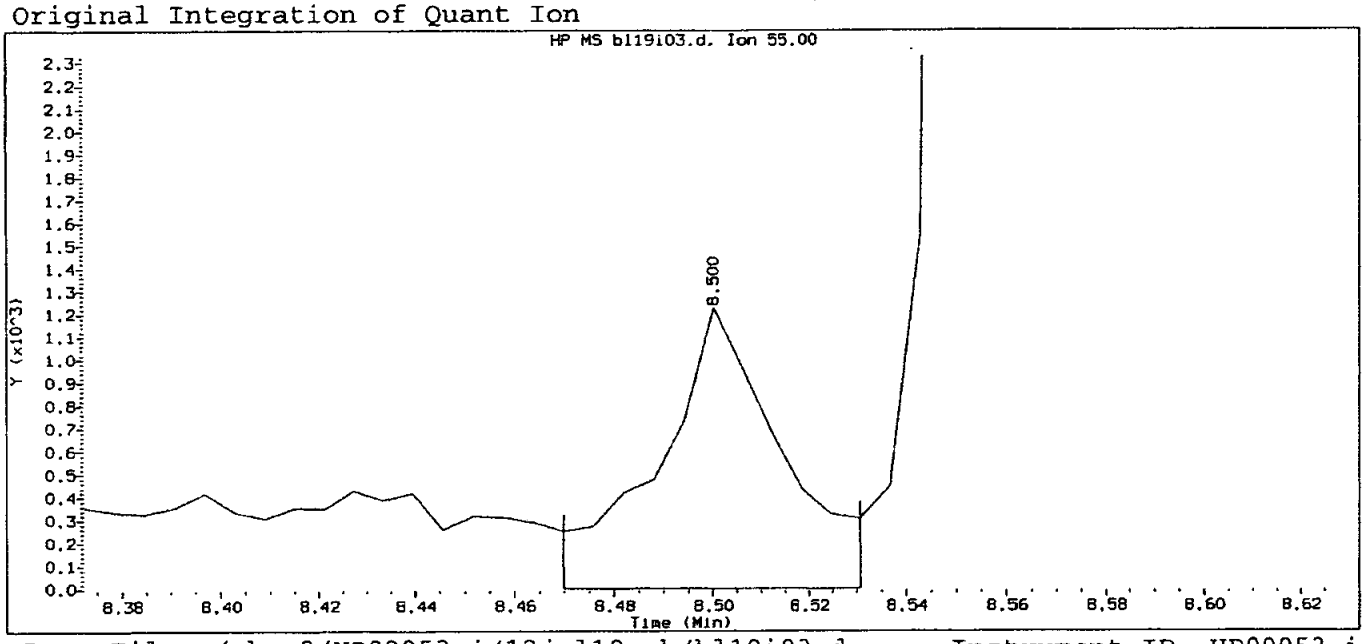
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 11:17
Date, time and analyst ID of latest file update: 19-Jul-2012 11:17 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 118
Compound Name : Cyclohexanone
Scan Number : 1261
Retention Time (minutes): 8.500
Quant Ion : 55.00
Area : 2111
On-column Amount (ng) : 4.4217
Integration start scan : 1255 Integration stop scan: 1265
Y at integration start : 0 Y at integration end: 0

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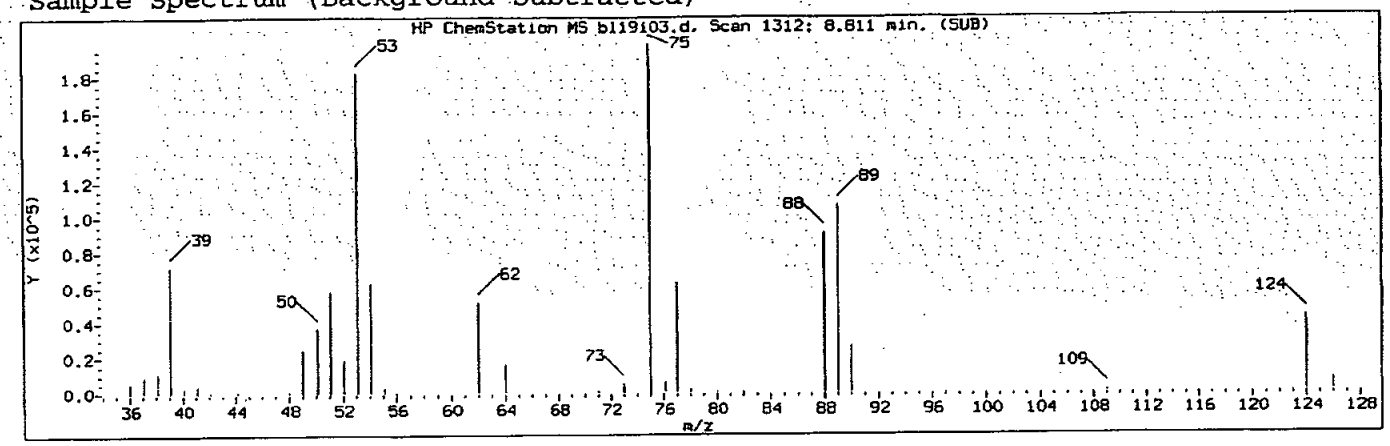
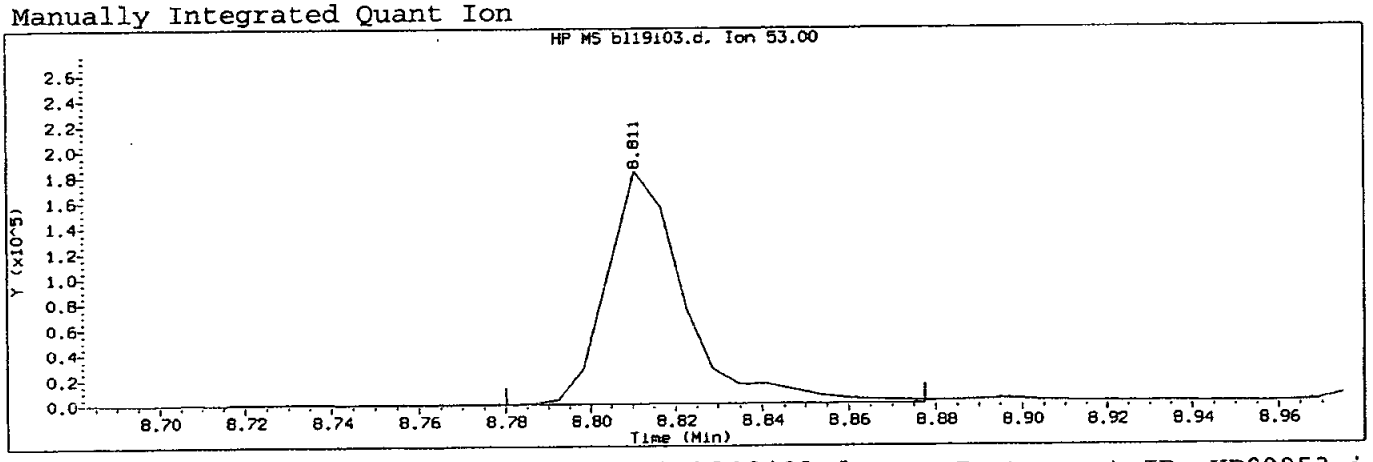
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 125	
Compound Name	: trans-1,4-Dichloro-2-Butene	
Scan Number	: 1312	
Retention Time (minutes)	: 8.811	
Quant Ion	: 53.00	
Area (flag)	: 233671M	
On-Column Amount (ng)	: 121.9038	
Integration start scan	: 1306	Integration stop scan: 1322
Y at integration start	: 0	Y at integration end: 0

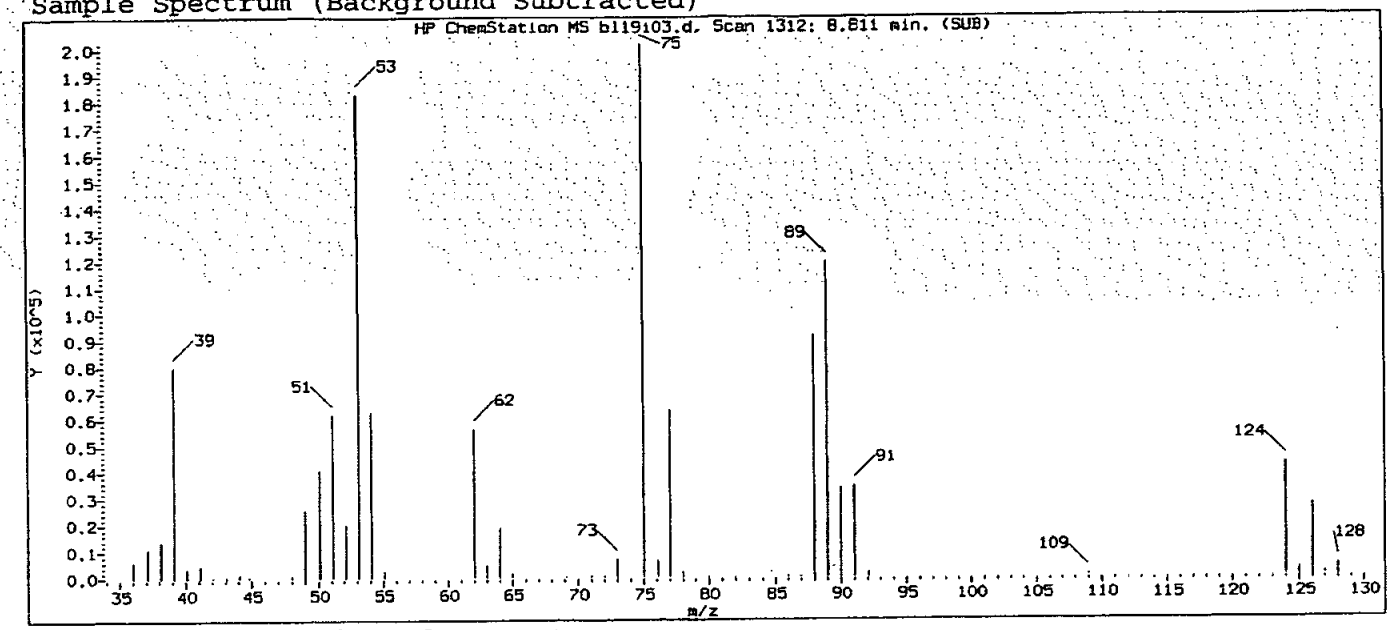
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

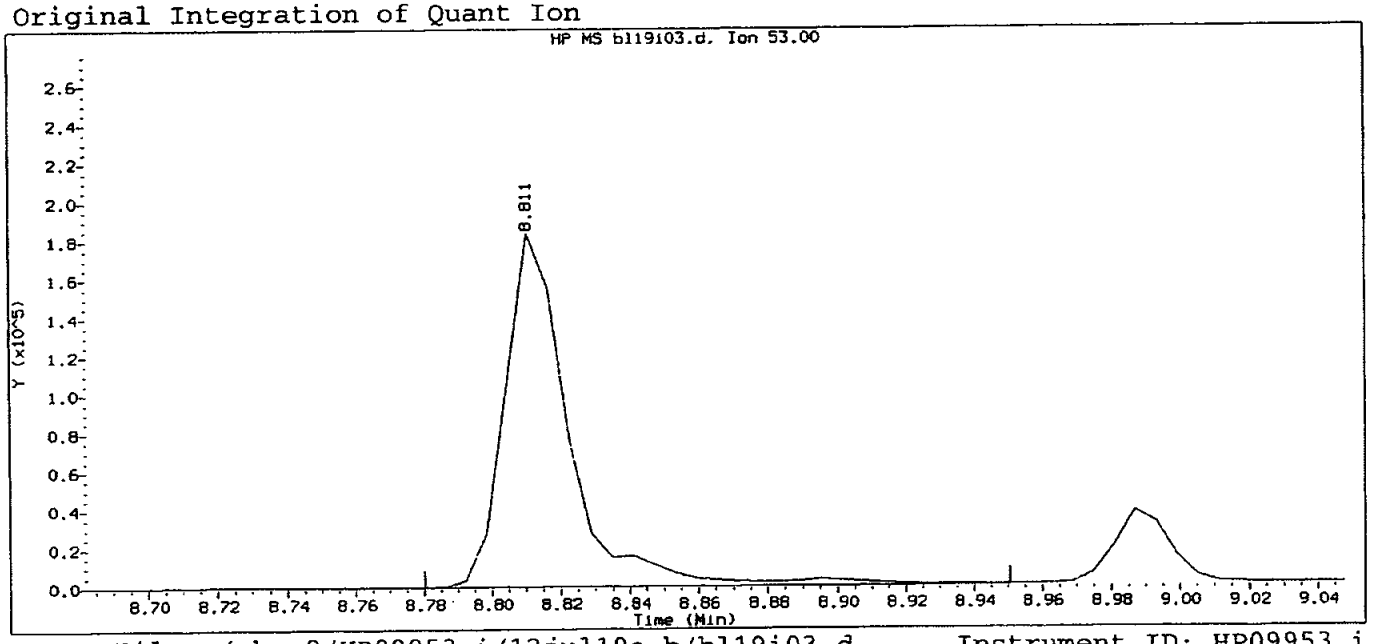
GC/MS audit/management approval: _____

ASX73 0172

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 11:17
Date, time and analyst ID of latest file update: 19-Jul-2012 11:17 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 125		
Compound Name	: trans-1,4-Dichloro-2-Butene		
Scan Number	: 1312		
Retention Time (minutes)	: 8.811		
Quant Ion	: 53.00		
Area	: 240738		
On-column Amount (ng)	: 114.9801		
Integration start scan	: 1306	Integration stop scan:	1334
Y at integration start	: 0	Y at integration end:	0

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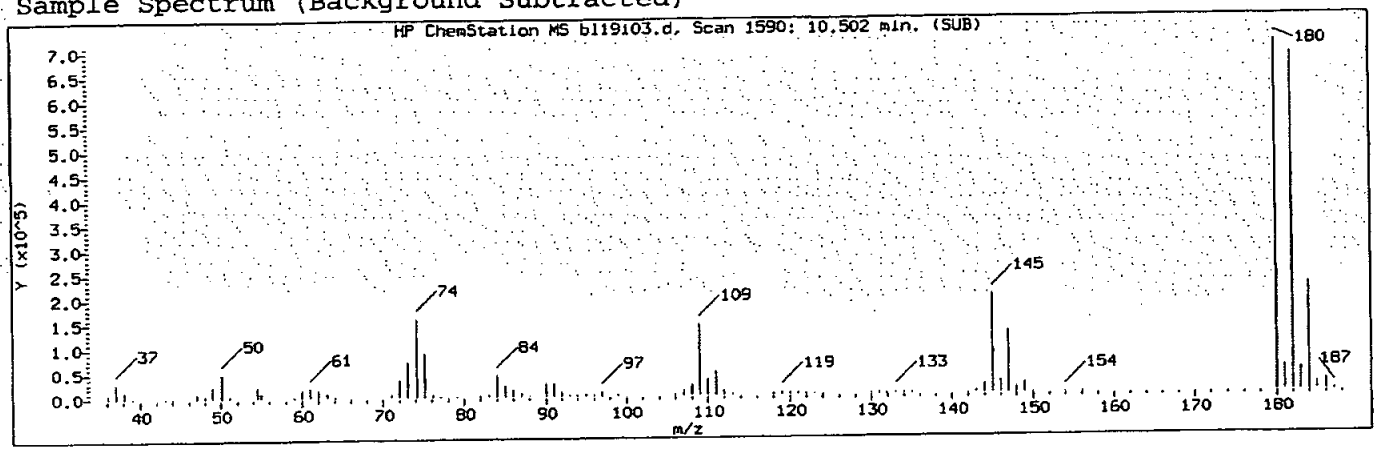
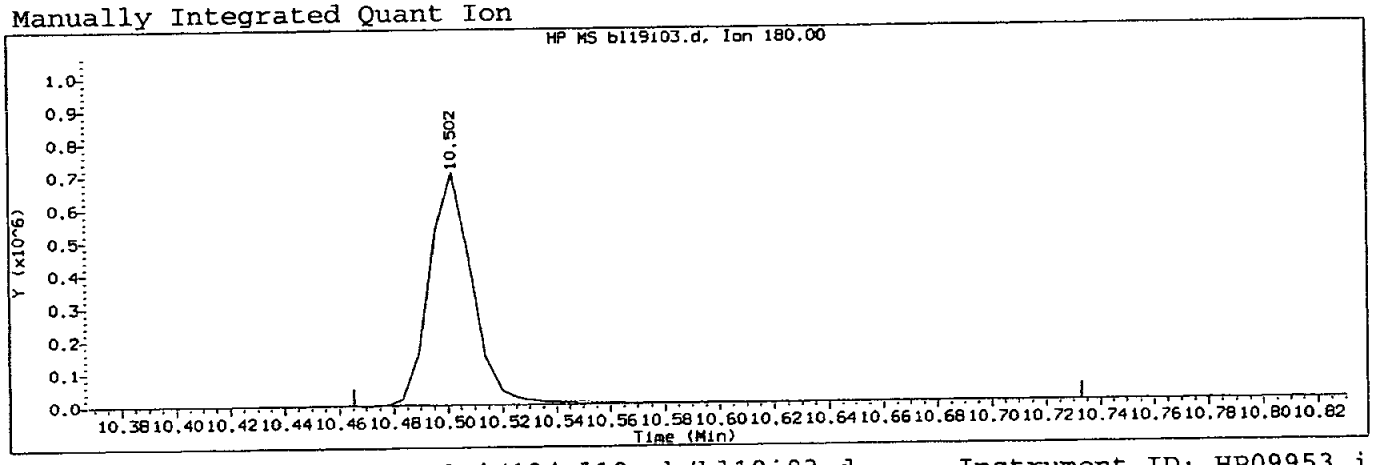
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

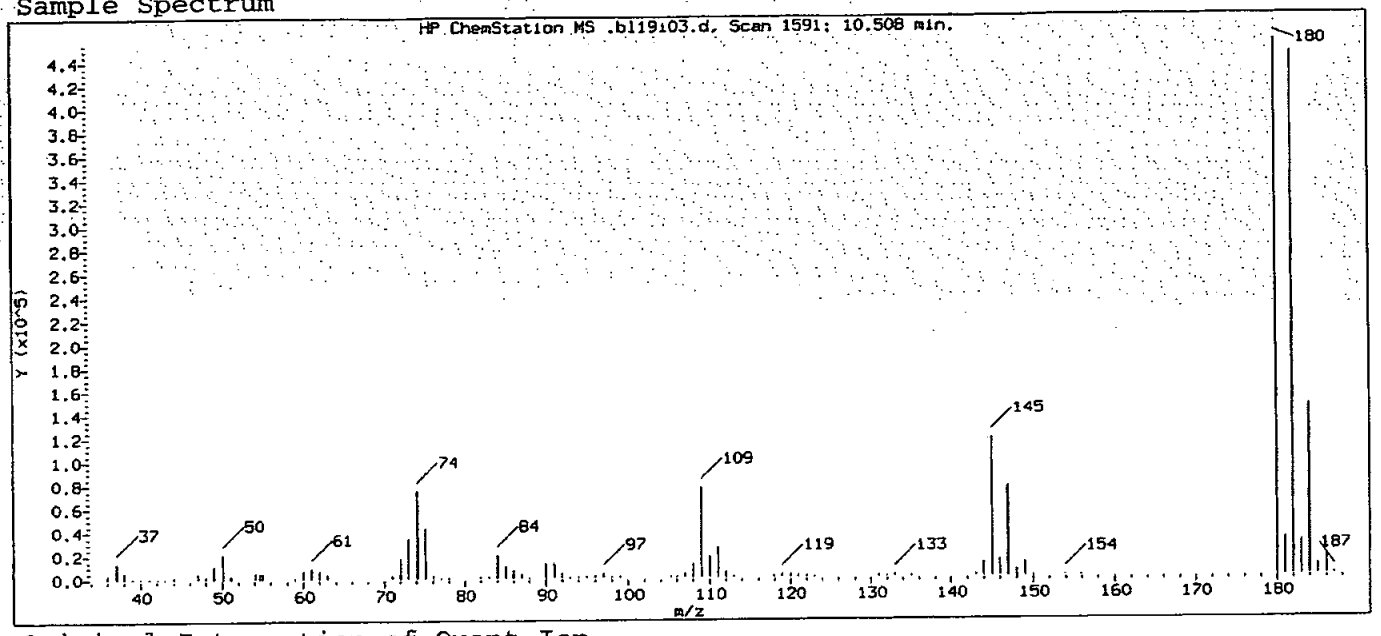
Compound Number	: 149		
Compound Name	: 1,3,5-Trichlorobenzene		
Scan Number	: 1590		
Retention Time (minutes)	: 10.502		
Quant Ion	: 180.00		
Area (flag)	: 783826M		
On-Column Amount (ng)	: 51.2146		
Integration start scan	: 1583	Integration stop scan:	1627
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

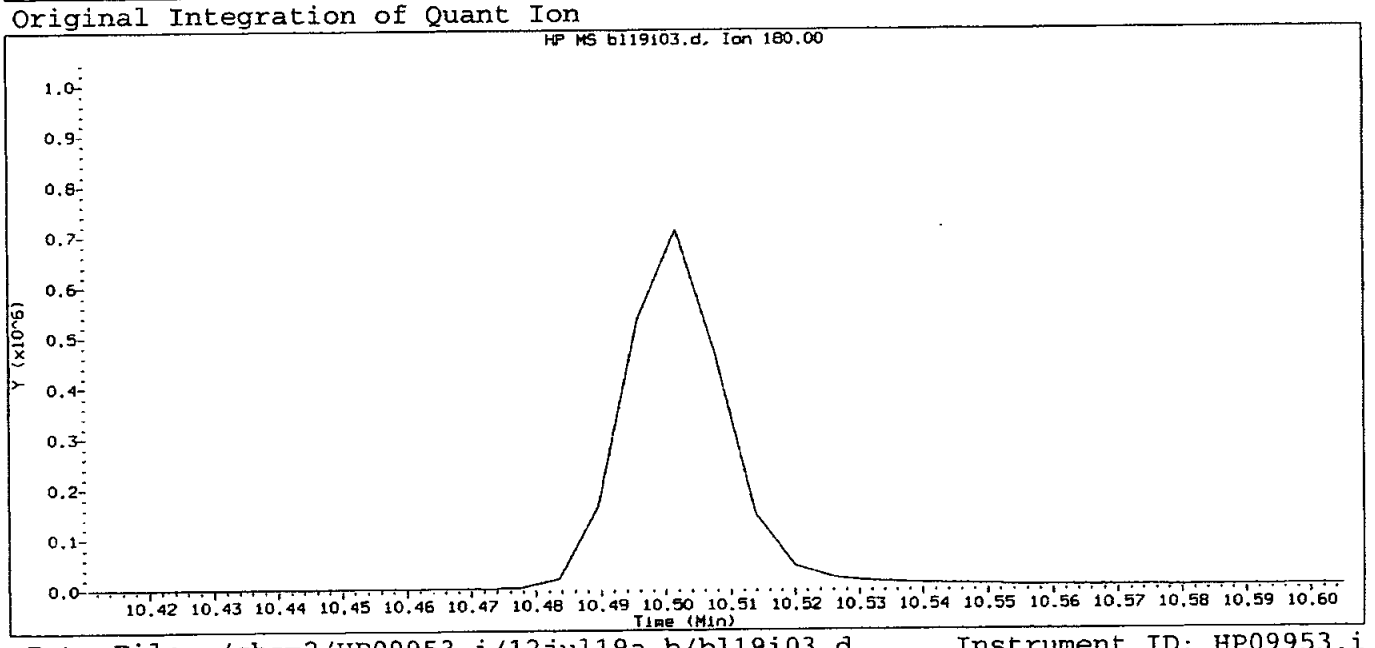
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: _____

Sample Spectrum



Original Integration of Quant Ion



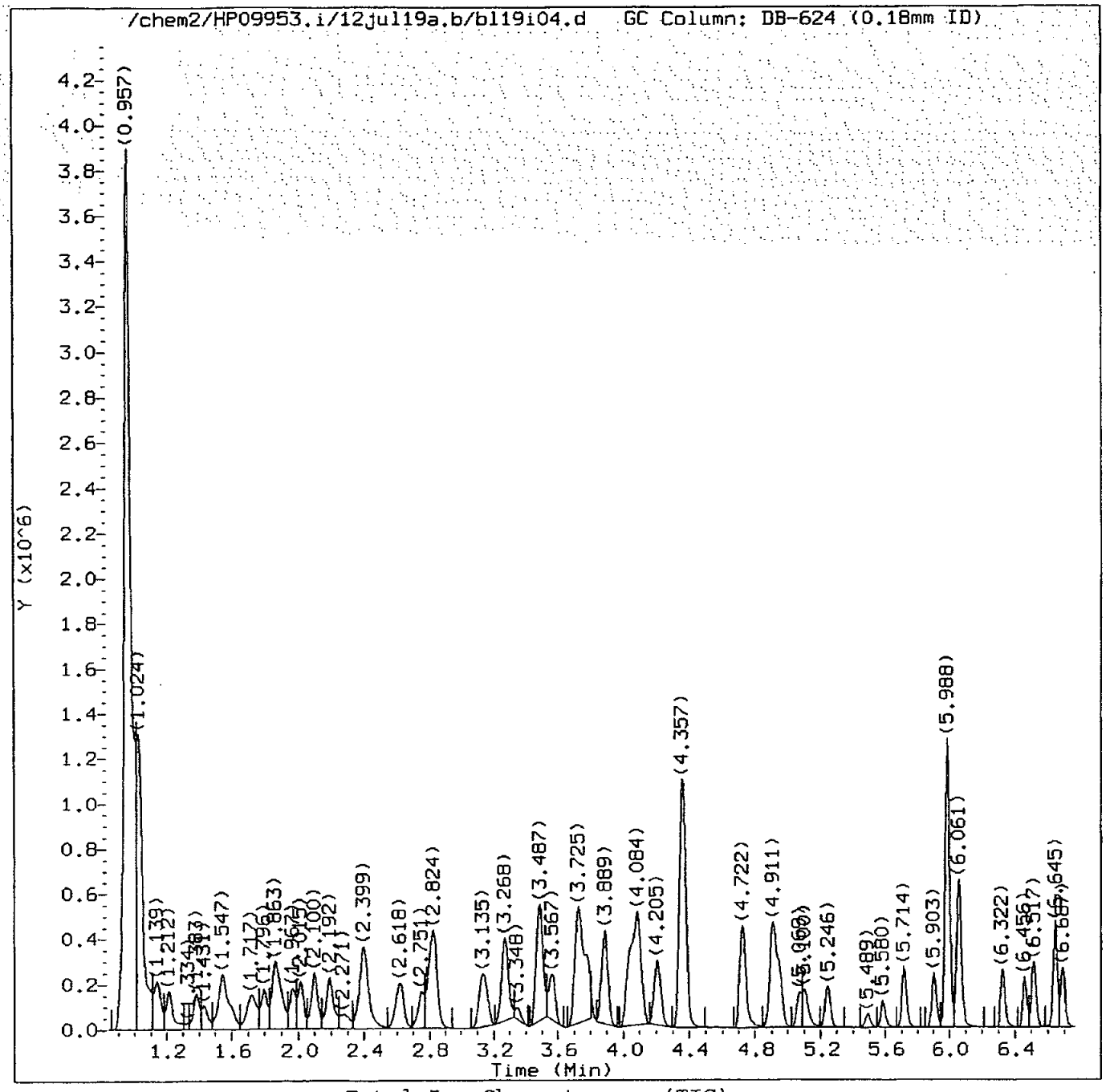
Data File: /chem2/HP09953.i/12jul19a.b/bl19i03.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 11:17
Date, time and analyst ID of latest file update: 19-Jul-2012 11:17 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Expected RT (minutes) : 10.508
Quant Ion : 180.00

Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

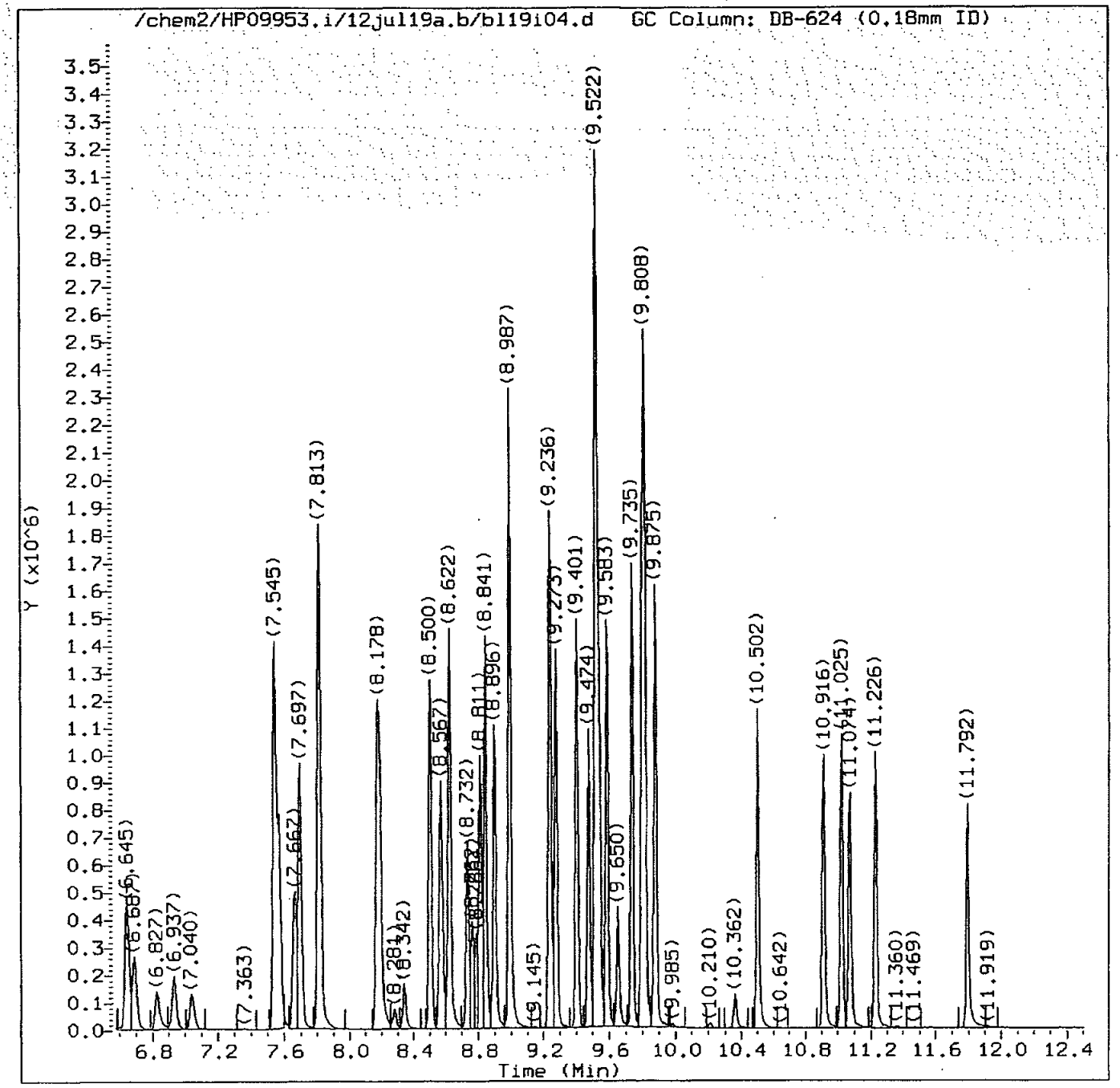
Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i04.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:23 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD020 Lab Sample ID: VSTD020

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i04.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:23 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD020 Lab Sample ID: VSTD020

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

ASX73 0177

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i04.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:23 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.097	85	209499	20.257
3) Chloromethane	(1)	1.145	50	216728	20.826
4) Vinyl Chloride	(1)	1.212	62	191079	21.003
6) Bromomethane	(1)	1.383	94	126387	20.932
7) Chloroethane	(1)	1.431	64	102492	21.198
8) Dichlorofluoromethane	(1)	1.541	67	254070	20.791
9) Trichlorofluoromethane	(1)	1.559	101	216796	21.038
12) Freon 123a	(1)	1.723	67	152075	20.147
13) Acrolein	(4)	1.796	56	186579	204.930
14) 1,1-Dichloroethene	(1)	1.863	96	100788	20.115
18) Freon 113	(1)	1.888	101	110635	19.853
17) Acetone	(1)	1.894	43	53378	36.436
20) Methyl Iodide	(1)	1.967	142	206413	20.067
21) 2-Propanol	(4)	1.985	45	71791	202.773
23) Carbon Disulfide	(1)	2.015	76	318212	19.829
25) Allyl Chloride	(1)	2.100	41	205981	20.942
26) Methyl Acetate	(1)	2.113	43	68525	18.410
27) Methylene Chloride	(1)	2.186	84	124950	19.282
28)*t-Butyl Alcohol-d10	(4)	2.216	65	84792	250.000
29) t-Butyl Alcohol	(4)	2.283	59	114350	198.629
30) Acrylonitrile	(4)	2.386	53	39377	19.772
31) trans-1,2-Dichloroethene	(1)	2.399	96	121221	19.539
32) Methyl Tertiary Butyl Ether	(1)	2.405	73	320841	19.097
35) n-Hexane	(1)	2.624	57	178454	19.269
37) 1,1-Dichloroethane	(1)	2.751	63	228218	19.760
40) di-Isopropyl Ether	(1)	2.812	45	431423	19.525
41) 2-Chloro-1,3-Butadiene	(1)	2.830	53	197494	19.854
43) Ethyl t-Butyl Ether	(1)	3.135	59	378737	19.127
44) cis-1,2-Dichloroethene	(1)	3.268	96	138574	19.606
45) 2,2-Dichloropropane	(1)	3.268	77	185198	19.747
46) 2-Butanone	(1)	3.299	43	94537	36.632
48) Propionitrile	(4)	3.354	54	144897	204.589
50) Bromochloromethane	(1)	3.487	128	67726	19.994
49) Methacrylonitrile	(4)	3.487	67	215658	104.315
51) Tetrahydrofuran	(4)	3.536	71	25128	39.163
52) Chloroform	(1)	3.567	83	231382	19.616
53)$Dibromofluoromethane	(1)	3.719	113	248476	49.691
54)$Dibromofluoromethane(mz111)	(1)	3.719	111	254316	49.885

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i04.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:23 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	3.731	97	279412	20.879
57) Cyclohexane	(1)	3.780	56	227687	19.442
58) Cyclohexane(mz84)	(1)	3.780	84	186479	19.549
56) Cyclohexane(mz69)	(1)	3.780	69	68509	19.553
60) Carbon Tetrachloride	(1)	3.889	117	167066	19.323
59) 1,1-Dichloropropene	(1)	3.889	75	174997	19.841
62)$1,2-Dichloroethane-d4	(1)	4.035	102	52044	49.358
63)$1,2-Dichloroethane-d4(mz65)	(1)	4.035	65	255081	50.009
61)$1,2-Dichloroethane-d4(mz104)	(1)	4.035	104	32774	48.172
64) Isobutyl Alcohol	(4)	4.053	41	92312	504.355
65) Benzene	(1)	4.084	78	520490	19.658
67) 1,2-Dichloroethane(mz98)	(1)	4.108	98	14624	19.118
66) 1,2-Dichloroethane	(1)	4.108	62	158385	19.340
71) t-Amyl Methyl Ether	(1)	4.205	73	333676	19.069
72) n-Heptane	(1)	4.357	43	206677	19.107
73)*Fluorobenzene	(1)	4.357	96	1053561	50.000
69) 1,2-Dichloroethene (total)	(1)		96	259795	39.149
74) n-Butanol	(4)	4.722	56	146572	998.474
75) Trichloroethene	(1)	4.722	95	137167	19.592
77) Methylcyclohexane	(1)	4.911	83	246831	20.659
76) Methylcyclohexane(mz98)	(1)	4.911	98	110694	20.651
78) 1,2-Dichloropropane	(1)	4.948	63	133286	19.446
79) Dibromomethane	(1)	5.069	93	74655	19.177
81) 1,4-Dioxane	(4)	5.106	88	29725	524.972
80) Methyl Methacrylate	(1)	5.106	69	72409	18.241
83) Bromodichloromethane	(1)	5.246	83	153573	18.979
84) 2-Nitropropane	(4)	5.489	41	45355A	36.723
86) 2-Chloroethyl Vinyl Ether	(1)	5.580	63	61080	18.635
87) cis-1,3-Dichloropropene	(1)	5.714	75	181877	18.908
89) 4-Methyl-2-Pentanone	(1)	5.903	43	209590	37.623
90)$Toluene-d8	(2)	5.988	98	999711	50.542
91)$Toluene-d8(mz100)	(2)	5.988	100	653014	50.190
92) Toluene	(2)	6.061	92	336557	19.851
93) trans-1,3-Dichloropropene	(2)	6.322	75	157864	19.021
95) Ethyl Methacrylate	(2)	6.456	69	136485	18.699
96) 1,1,2-Trichloroethane	(2)	6.517	97	98844	19.276
97) Tetrachloroethene	(2)	6.645	166	158787	19.897
98) 1,3-Dichloropropane	(2)	6.694	76	165136	19.113

A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

ASX73 9179

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i04.d
Injection date and time: 19-JUL-2012 11:23

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 19-JUL-2012 12:56

Sublist used: 8260SI-E

Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD020

Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
100) 2-Hexanone	(2)	6.827	58	69507	36.983
103) Dibromochloromethane	(2)	6.937	129	109391	18.765
105) 1,2-Dibromoethane	(2)	7.040	107	100568	19.080
106) *Chlorobenzene-d5	(2)	7.545	117	733809	50.000
107) Chlorobenzene	(2)	7.570	112	364037	19.678
108) 1,1,1,2-Tetrachloroethane	(2)	7.667	131	129546	19.607
109) Ethylbenzene	(2)	7.697	91	637645	19.955
110) m+p-Xylene	(2)	7.813	106	509139	40.107
113) o-Xylene	(2)	8.172	106	253154	19.840
112) Xylene (Total)	(2)		106	762293	59.947
115) Styrene	(2)	8.190	104	406841	19.723
116) Bromoform	(2)	8.342	173	70892	17.780
117) Isopropylbenzene	(2)	8.500	105	675486	20.287
118) Cyclohexanone	(4)	8.567	55	344329	517.597
120) $4-Bromofluorobenzene	(2)	8.622	95	360599	50.044
121) $4-Bromofluorobenzene(mz174)	(2)	8.622	174	334482	49.758
122) Bromobenzene	(3)	8.732	156	171477	19.160
123) 1,1,2,2-Tetrachloroethane	(3)	8.762	83	130590	18.288
124) 1,2,3-Trichloropropane	(3)	8.786	110	36338	18.186
125) trans-1,4-Dichloro-2-Butene	(3)	8.811	53	176461	93.816
126) n-Propylbenzene	(3)	8.841	91	782241	19.924
127) 2-Chlorotoluene	(3)	8.896	126	162026	19.179
129) 4-Chlorotoluene	(3)	8.987	126	167295	19.574
128) 1,3,5-Trimethylbenzene	(3)	8.987	105	576408	19.830
131) tert-Butylbenzene	(3)	9.236	134	132749	19.724
132) Pentachloroethane	(3)	9.243	167	103922	19.700
133) 1,2,4-Trimethylbenzene	(3)	9.273	105	585626	19.676
134) sec-Butylbenzene	(3)	9.401	105	744300	19.993
135) 1,3-Dichlorobenzene	(3)	9.474	146	330559	19.449
136) p-Isopropyltoluene	(3)	9.516	119	656776	20.031
137) *1,4-Dichlorobenzene-d4	(3)	9.522	152	435826	50.000
138) 1,4-Dichlorobenzene	(3)	9.541	146	346509	19.351
139) 1,2,3-Trimethylbenzene	(3)	9.583	105	606281	20.293
140) Benzyl Chloride	(3)	9.650	91	237800	17.850
141) 1,3-Diethylbenzene	(3)	9.735	119	396786	20.585
142) 1,4-Diethylbenzene	(3)	9.796	119	416389	20.762
144) 1,2-Dichlorobenzene	(3)	9.808	146	318918	19.711
143) n-Butylbenzene	(3)	9.814	92	324870	20.032

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i04.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:23 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
145) 1,2-Diethylbenzene	(3)	9.875	119	341657	20.386
147) 1,2-Dibromo-3-Chloropropane	(3)	10.362	75	22948	17.818
149) 1,3,5-Trichlorobenzene	(3)	10.502	180	297228M	19.792
150) 1,2,4-Trichlorobenzene	(3)	10.916	180	260478	19.856
152) Hexachlorobutadiene	(3)	11.025	225	149615	19.895
153) Naphthalene	(3)	11.074	128	522974	19.530
154) 1,2,3-Trichlorobenzene	(3)	11.226	180	248896	20.161
155) 2-Methylnaphthalene	(3)	11.792	142	326107	20.247

M = Compound was manually integrated.

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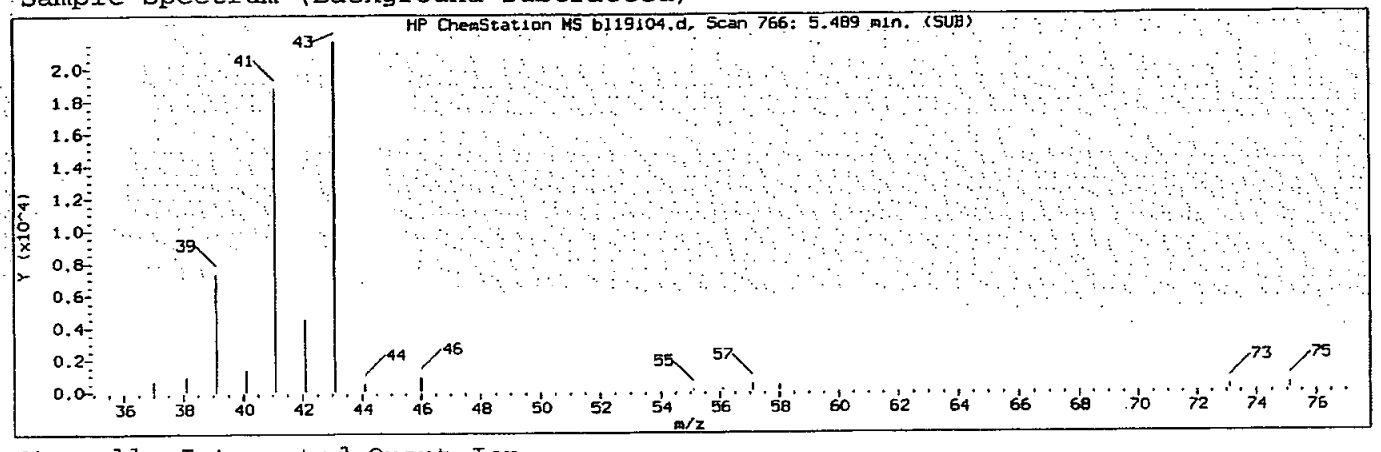
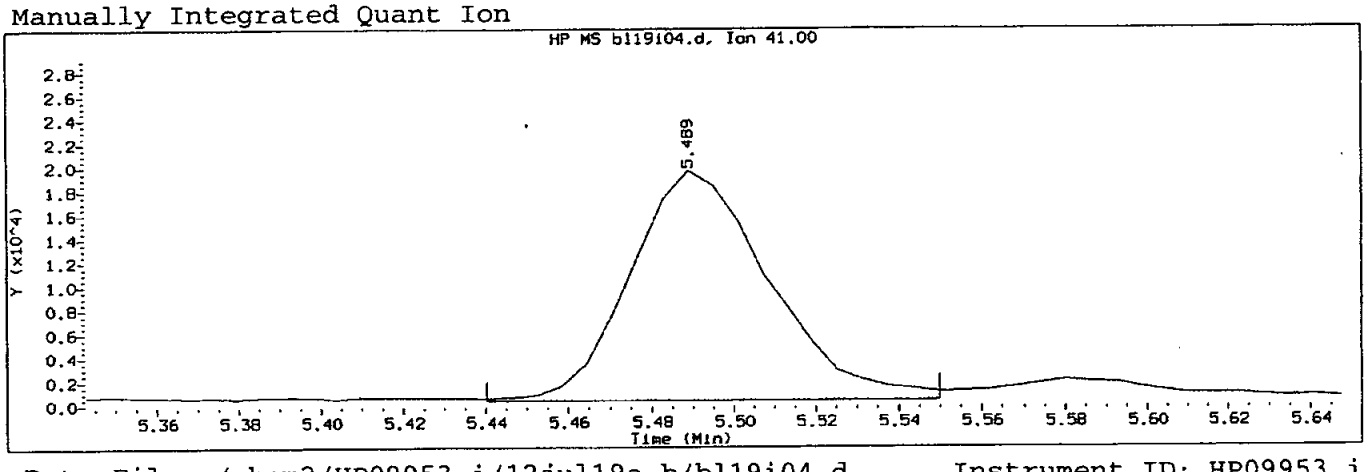
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i04.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:23 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 84
Compound Name : 2-Nitropropane
Scan Number : 766
Retention Time (minutes): 5.489
Quant Ion : 41.00
Area (flag) : 45355A
On-Column Amount (ng) : 36.7232
Integration start scan : 757 Integration stop scan: 775
Y at integration start : 363 Y at integration end: 363

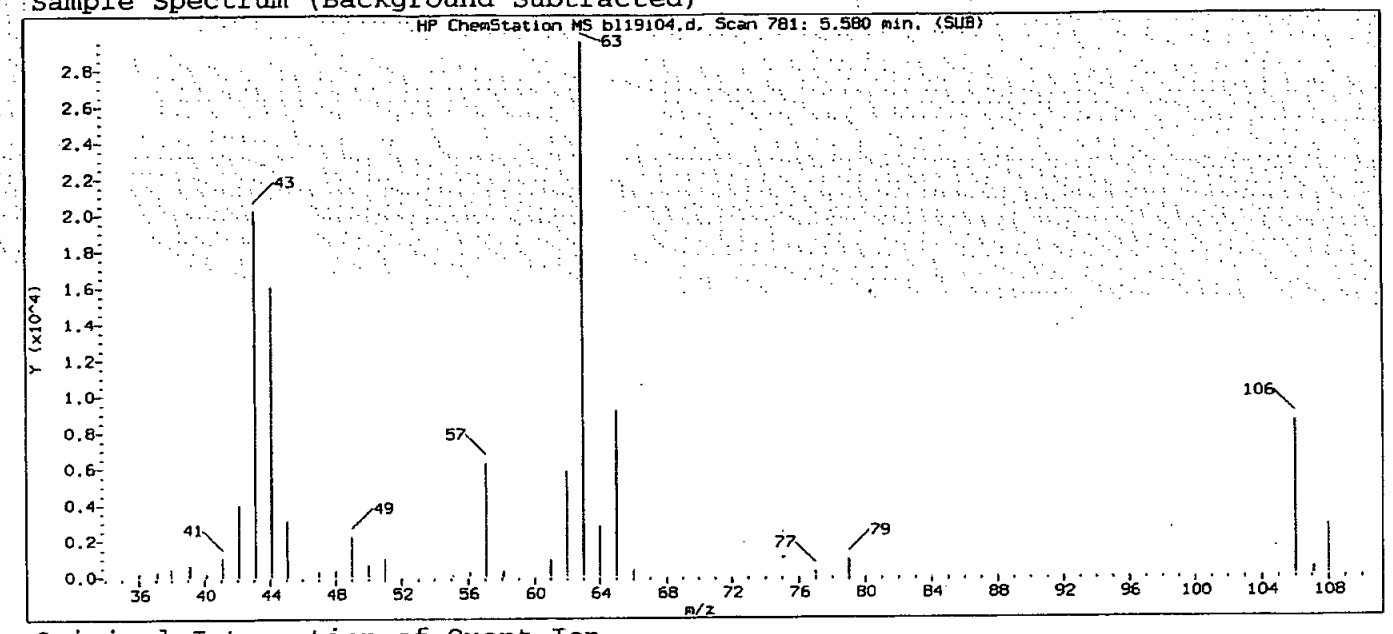
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

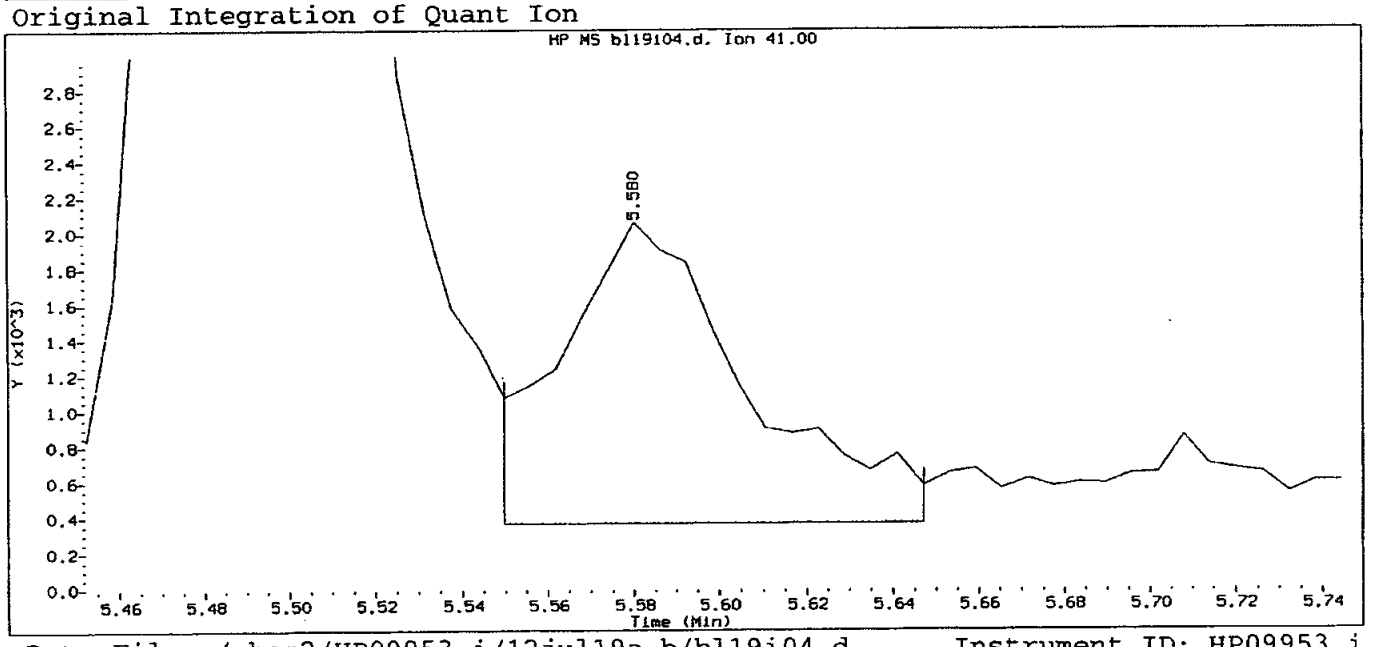
GC/MS audit/management approval: _____

ASX73 0182

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i04.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:23 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 11:40
Date, time and analyst ID of latest file update: 19-Jul-2012 11:40 Automation

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 84
Compound Name : 2-Nitropropane
Scan Number : 781
Retention Time (minutes): 5.580
Quant Ion : 41.00
Area : 5080
On-column Amount (ng) : 49.8551
Integration start scan : 775 Integration stop scan: 791
Y at integration start : 363 Y at integration end: 363

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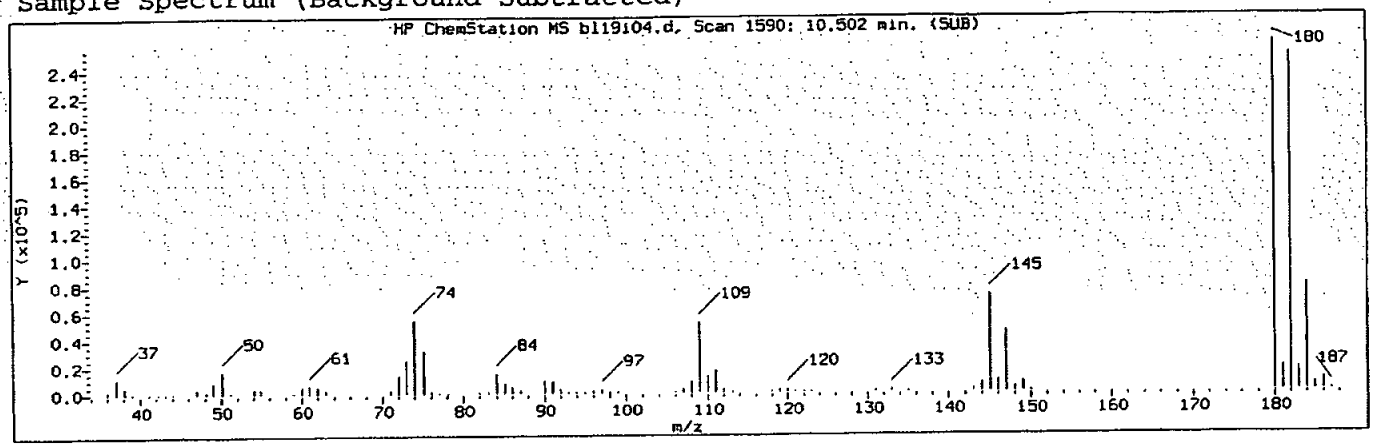
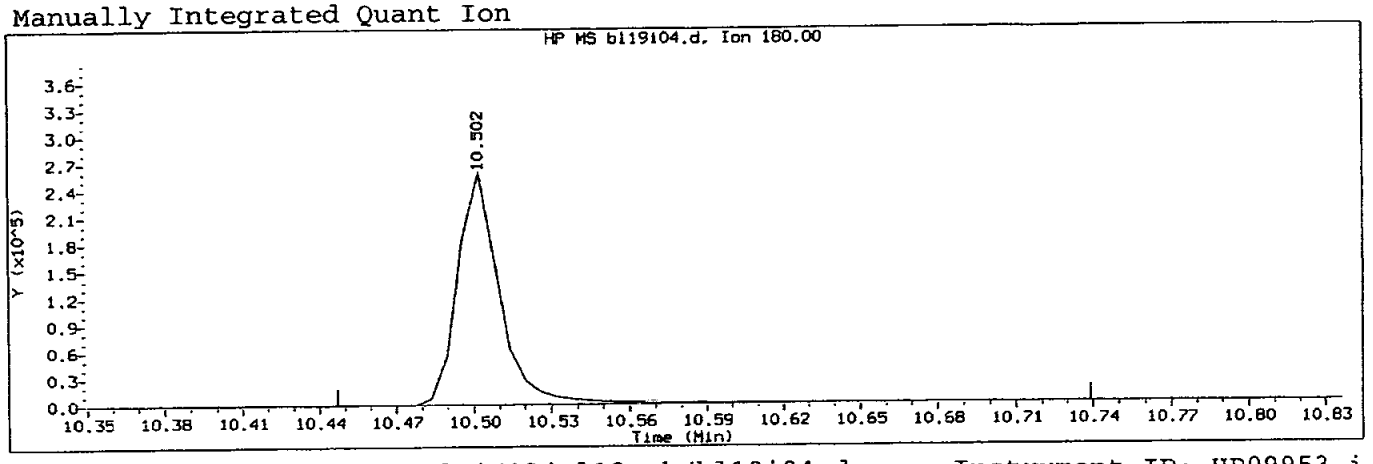
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i04.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:23 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD020 Lab Sample ID: VSTD020

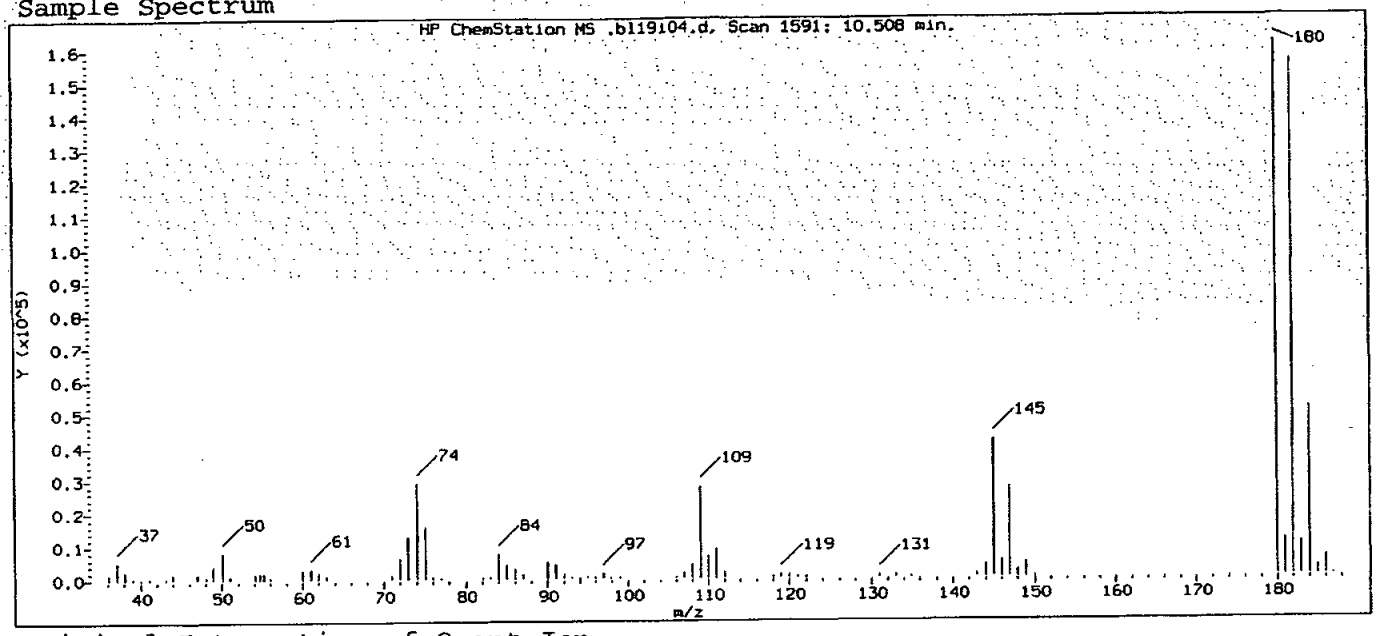
Compound Number	:	149
Compound Name	:	1,3,5-Trichlorobenzene
Scan Number	:	1590
Retention Time (minutes)	:	10.502
Quant Ion	:	180.00
Area (flag)	:	297228M
On-Column Amount (ng)	:	19.7915
Integration start scan	:	1580
Integration stop scan	:	1628
Y at integration start	:	0
Y at integration end	:	0

Reason for manual integration: missed peak

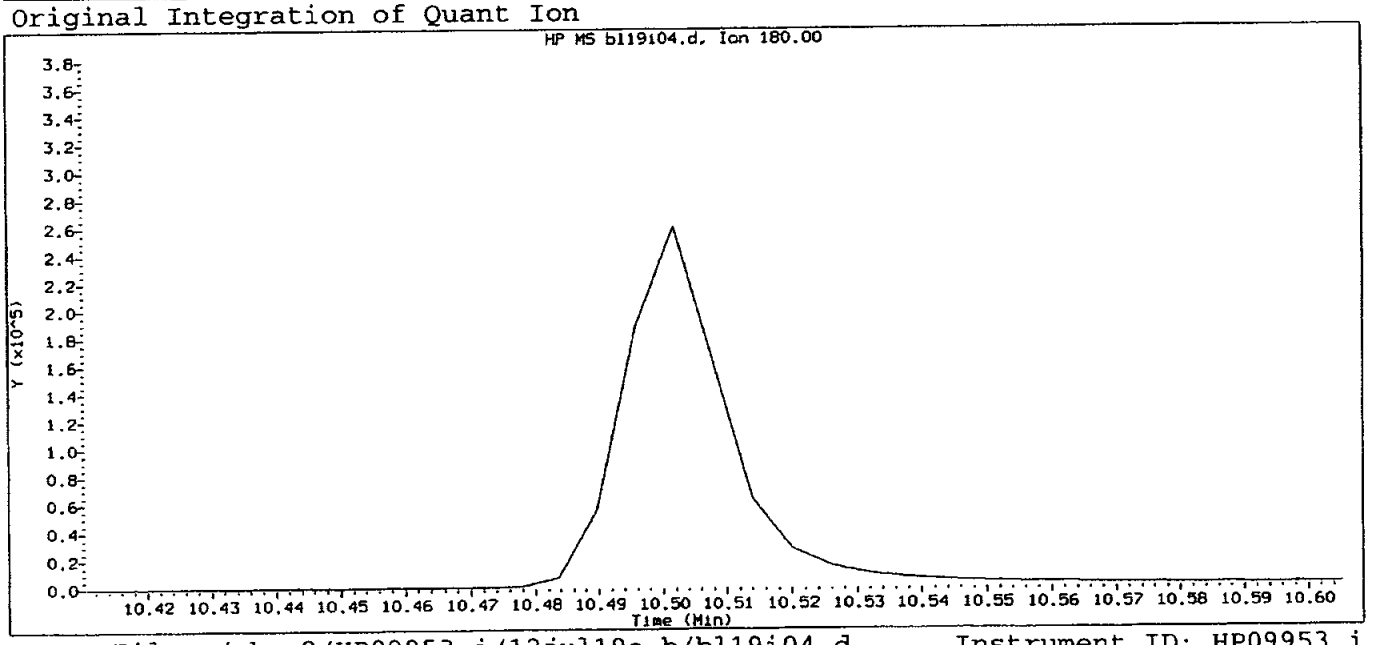
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: _____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i04.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:23 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 11:40
Date, time and analyst ID of latest file update: 19-Jul-2012 11:40 Automation

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Expected RT (minutes) : 10.508
Quant Ion : 180.00

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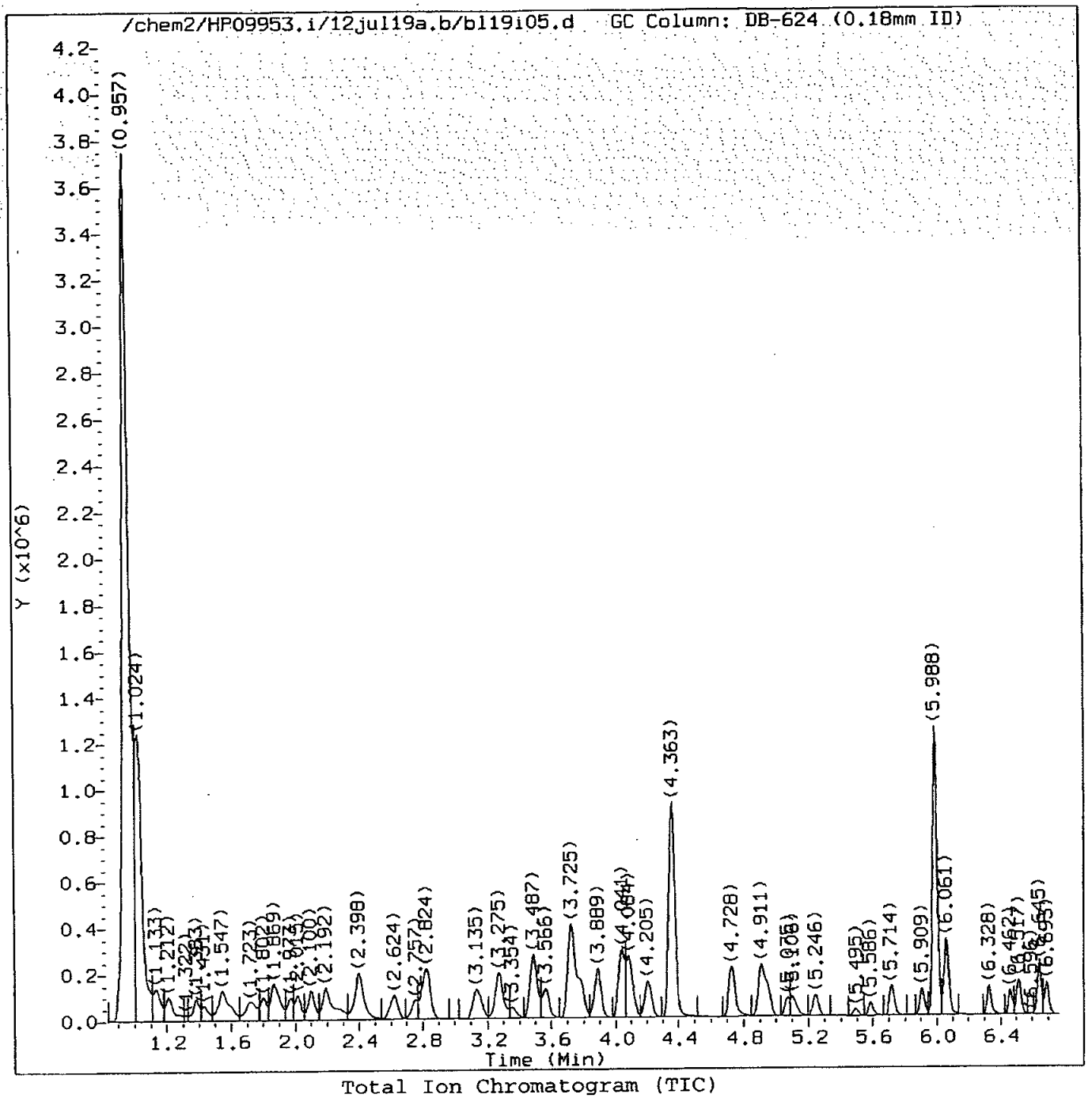
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d
Injection date and time: 19-JUL-2012 11:49

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sublist used: 8260SI-E

Sample Name: VSTD010

Lab Sample ID: VSTD010

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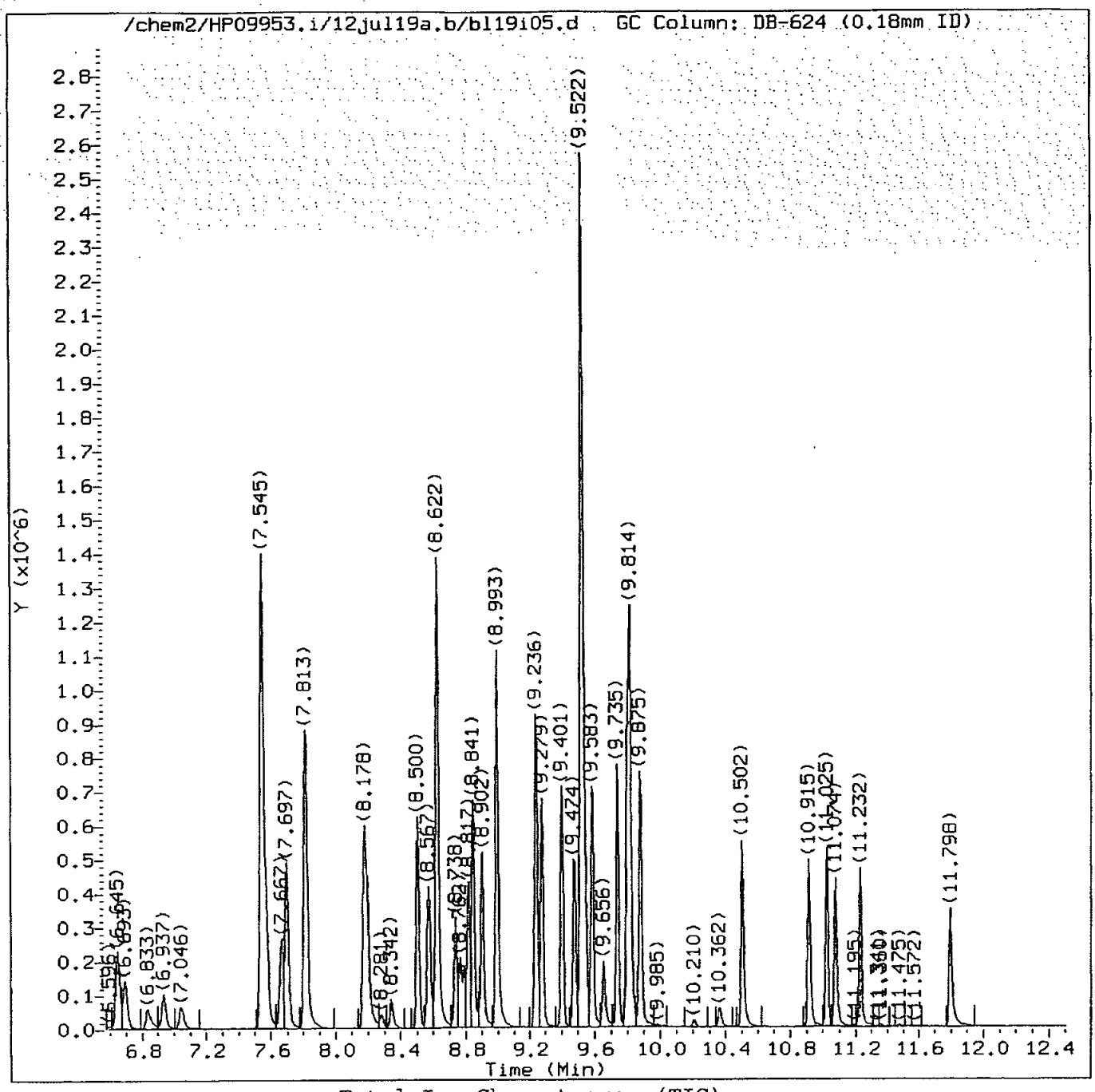
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

ASX73 9186



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD010 Lab Sample ID: VSTD010

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on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

ASX73 0187

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.097	85	115397	11.078
3) Chloromethane	(1)	1.139	50	112762	10.757
4) Vinyl Chloride	(1)	1.212	62	99123	10.817
6) Bromomethane	(1)	1.383	94	68702	11.296
7) Chloroethane	(1)	1.431	64	54084	11.105
8) Dichlorofluoromethane	(1)	1.541	67	122102	9.920
9) Trichlorofluoromethane	(1)	1.559	101	112490	10.838
12) Freon 123a	(1)	1.723	67	76702	10.088
13) Acrolein	(4)	1.802	56	96226	97.407
14) 1,1-Dichloroethene	(1)	1.863	96	49289	9.766
18) Freon 113	(1)	1.887	101	55729	9.929
17) Acetone	(1)	1.894	43	30987M	21.000
20) Methyl Iodide	(1)	1.967	142	102520	9.895
21) 2-Propanol	(4)	1.979	45	36341	94.600
23) Carbon Disulfide	(1)	2.015	76	154099	9.533
25) Allyl Chloride	(1)	2.100	41	102361	10.332
26) Methyl Acetate	(1)	2.113	43	39870	10.635
27) Methylene Chloride	(1)	2.192	84	66776M	10.230
28)*t-Butyl Alcohol-d10	(4)	2.222	65	92003	250.000
29) t-Butyl Alcohol	(4)	2.283	59	59865M	95.837
30) Acrylonitrile	(4)	2.386	53	21699	10.041
31) trans-1,2-Dichloroethene	(1)	2.398	96	62222	9.957
32) Methyl Tertiary Butyl Ether	(1)	2.411	73	174621	10.319
35) n-Hexane	(1)	2.624	57	91722	9.832
37) 1,1-Dichloroethane	(1)	2.751	63	114034	9.802
40) di-Isopropyl Ether	(1)	2.818	45	223147	10.027
41) 2-Chloro-1,3-Butadiene	(1)	2.830	53	97893	9.770
43) Ethyl t-Butyl Ether	(1)	3.135	59	201040	10.080
44) cis-1,2-Dichloroethene	(1)	3.268	96	70774	9.941
45) 2,2-Dichloropropane	(1)	3.275	77	91649	9.702
46) 2-Butanone	(1)	3.305	43	50766	19.530
48) Propionitrile	(4)	3.354	54	76108	99.039
50) Bromochloromethane	(1)	3.487	128	34579	10.135
49) Methacrylonitrile	(4)	3.487	67	109692	48.900
51) Tetrahydrofuran	(4)	3.536	71	13930M	20.009
52) Chloroform	(1)	3.573	83	118907	10.008
53)$Dibromofluoromethane	(1)	3.719	113	252243	50.081
54)$Dibromofluoromethane(mz111)	(1)	3.719	111	256979	50.044

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d
Injection date and time: 19-JUL-2012 11:49

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 19-JUL-2012 12:56

Sublist used: 8260SI-E

Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	3.737	97	136373	10.117
58) Cyclohexane(mz84)	(1)	3.779	84	93258	9.706
56) Cyclohexane(mz69)	(1)	3.786	69	33923	9.612
57) Cyclohexane	(1)	3.786	56	114478	9.705
60) Carbon Tetrachloride	(1)	3.889	117	82321	9.453
59) 1,1-Dichloropropene	(1)	3.889	75	86019	9.682
63)$1,2-Dichloroethane-d4(mz65)	(1)	4.035	65	259117	50.435
62)$1,2-Dichloroethane-d4	(1)	4.035	102	53978	50.824
61)$1,2-Dichloroethane-d4(mz104)	(1)	4.035	104	34310	50.067
64) Isobutyl Alcohol	(4)	4.053	41	45637	229.799
65) Benzene	(1)	4.084	78	263373	9.875
67) 1,2-Dichloroethane(mz98)	(1)	4.108	98	7566	9.820
66) 1,2-Dichloroethane	(1)	4.108	62	83644	10.140
71) t-Amyl Methyl Ether	(1)	4.205	73	177447	10.068
72) n-Heptane	(1)	4.363	43	106798	9.802
73)*Fluorobenzene	(1)	4.363	96	1061198	50.000
69) 1,2-Dichloroethene (total)	(1)		96	132996	19.897
74) n-Butanol	(4)	4.722	56	70273	441.191
75) Trichloroethene	(1)	4.728	95	69089	9.797
77) Methylcyclohexane	(1)	4.911	83	117744	9.784
76) Methylcyclohexane(mz98)	(1)	4.911	98	53743	9.954
78) 1,2-Dichloropropane	(1)	4.947	63	68215	9.881
79) Dibromomethane	(1)	5.075	93	39105	9.973
81) 1,4-Dioxane	(4)	5.106	88	13751	223.821
80) Methyl Methacrylate	(1)	5.106	69	39027	9.761
83) Bromodichloromethane	(1)	5.246	83	78091	9.581
84) 2-Nitropropane	(4)	5.495	41	23235	17.338
86) 2-Chloroethyl Vinyl Ether	(1)	5.586	63	30871	9.351
87) cis-1,3-Dichloropropene	(1)	5.714	75	91308	9.424
89) 4-Methyl-2-Pentanone	(1)	5.909	43	102829	18.326
90)$Toluene-d8	(2)	5.988	98	1003604	50.060
91)$Toluene-d8(mz100)	(2)	5.988	100	657656	49.870
92) Toluene	(2)	6.061	92	171147	9.960
93) trans-1,3-Dichloropropene	(2)	6.328	75	79357	9.433
95) Ethyl Methacrylate	(2)	6.462	69	72398	9.786
96) 1,1,2-Trichloroethane	(2)	6.517	97	51408	9.891
97) Tetrachloroethene	(2)	6.645	166	79584	9.839
98) 1,3-Dichloropropane	(2)	6.693	76	87052	9.941

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
100) 2-Hexanone	(2)	6.833	58	35685	18.733
103) Dibromochloromethane	(2)	6.937	129	55632	9.415
105) 1,2-Dibromoethane	(2)	7.046	107	53299	9.976
106)*Chlorobenzene-d5	(2)	7.545	117	743772	50.000
107) Chlorobenzene	(2)	7.569	112	187379	9.993
108) 1,1,1,2-Tetrachloroethane	(2)	7.667	131	64528	9.636
109) Ethylbenzene	(2)	7.697	91	322308	9.951
110) m+p-Xylene	(2)	7.813	106	259215	20.146
112) Xylene (Total)	(2)		106	388806	30.166
113) o-Xylene	(2)	8.178	106	129591	10.020
115) Styrene	(2)	8.196	104	209575	10.024
116) Bromoform	(2)	8.342	173	36129	8.940
117) Isopropylbenzene	(2)	8.500	105	340769	10.098
118) Cyclohexanone	(4)	8.567	55	174379	241.582
120)$4-Bromofluorobenzene	(2)	8.622	95	361678	49.521
121)$4-Bromofluorobenzene(mz174)	(2)	8.622	174	340055	49.910
122) Bromobenzene	(3)	8.738	156	87714	9.904
123) 1,1,2,2-Tetrachloroethane	(3)	8.768	83	69395	9.821
124) 1,2,3-Trichloropropane	(3)	8.792	110	19716	9.971
125) trans-1,4-Dichloro-2-Butene	(3)	8.817	53	86014	46.211
126) n-Propylbenzene	(3)	8.841	91	396829	10.214
127) 2-Chlorotoluene	(3)	8.902	126	82005	9.809
129) 4-Chlorotoluene	(3)	8.993	126	87107	10.299
128) 1,3,5-Trimethylbenzene	(3)	8.993	105	289705	10.072
131) tert-Butylbenzene	(3)	9.236	134	66407	9.971
132) Pentachloroethane	(3)	9.242	167	49894	9.558
133) 1,2,4-Trimethylbenzene	(3)	9.279	105	295999	10.050
134) sec-Butylbenzene	(3)	9.401	105	370483	10.056
135) 1,3-Dichlorobenzene	(3)	9.480	146	167464	9.957
136) p-Isopropyltoluene	(3)	9.516	119	326380	10.059
137)*1,4-Dichlorobenzene-d4	(3)	9.528	152	431286	50.000
138) 1,4-Dichlorobenzene	(3)	9.541	146	179812	10.148
139) 1,2,3-Trimethylbenzene	(3)	9.583	105	306408	10.364
140) Benzyl Chloride	(3)	9.656	91	115173	8.736
141) 1,3-Diethylbenzene	(3)	9.735	119	189818	9.951
142) 1,4-Diethylbenzene	(3)	9.796	119	200105	10.083
143) n-Butylbenzene	(3)	9.814	92	157285	9.801
144) 1,2-Dichlorobenzene	(3)	9.814	146	165958	10.365

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

ASX73 9190

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

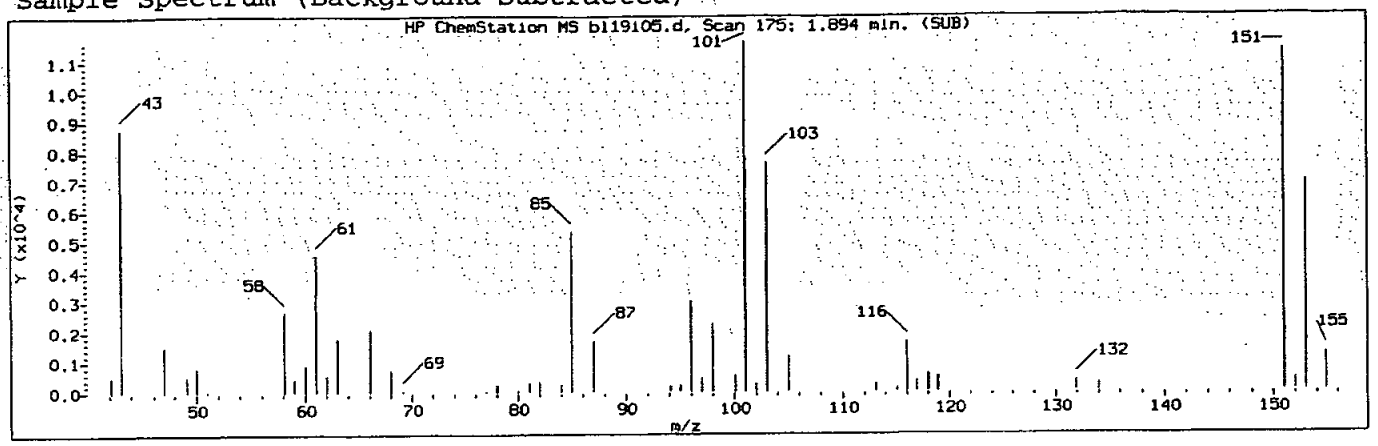
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
145) 1,2-Diethylbenzene	(3)	9.875	119	166039	10.011
147) 1,2-Dibromo-3-Chloropropane	(3)	10.362	75	12075	9.475
149) 1,3,5-Trichlorobenzene	(3)	10.502	180	148759M	10.010
150) 1,2,4-Trichlorobenzene	(3)	10.915	180	132105	10.176
152) Hexachlorobutadiene	(3)	11.025	225	72513	9.744
153) Naphthalene	(3)	11.074	128	270854	10.221
154) 1,2,3-Trichlorobenzene	(3)	11.232	180	124907	10.224
155) 2-Methylnaphthalene	(3)	11.798	142	163209	10.240

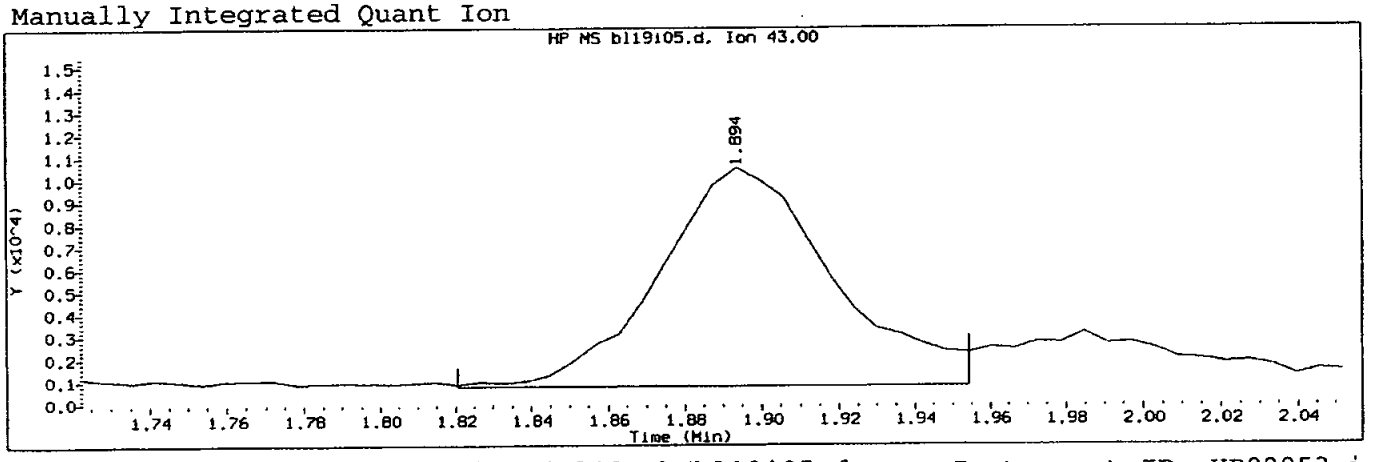
M = Compound was manually integrated.

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 17		
Compound Name	: Acetone		
Scan Number	: 175		
Retention Time (minutes)	: 1.894		
Quant Ion	: 43.00		
Area (flag)	: 30987M		
On-Column Amount (ng)	: 20.9998		
Integration start scan	: 162	Integration stop scan:	184
Y at integration start	: 744	Y at integration end:	744

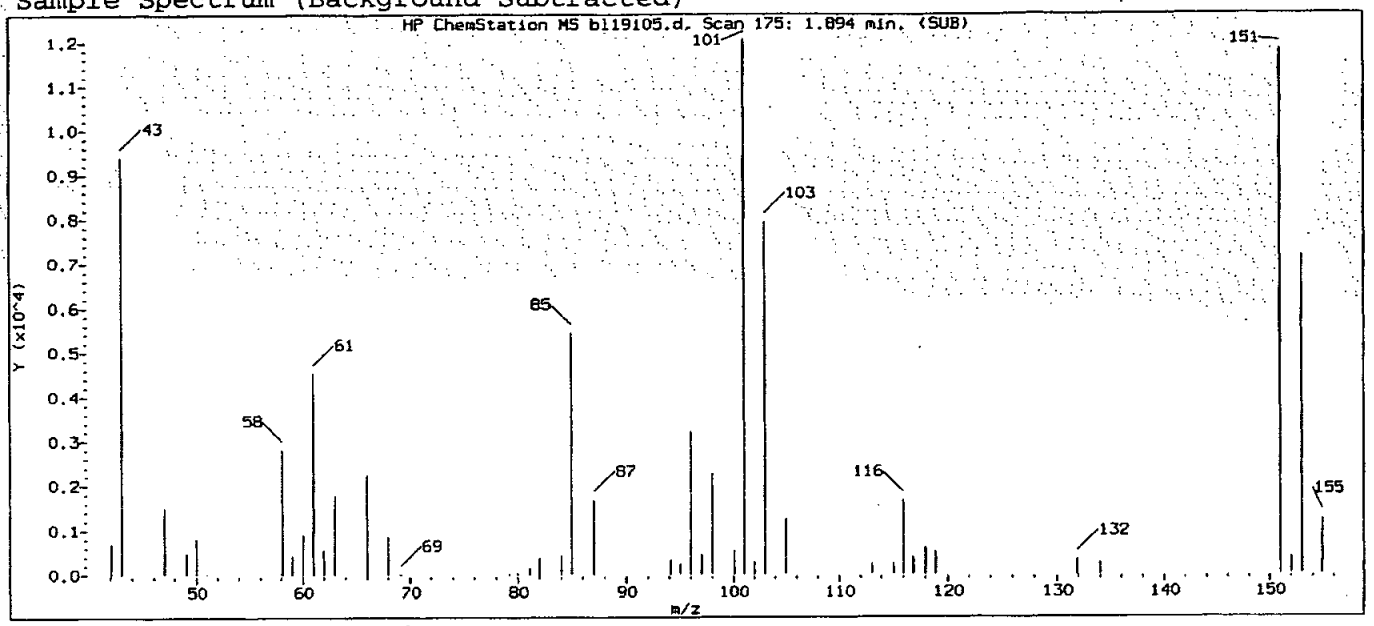
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

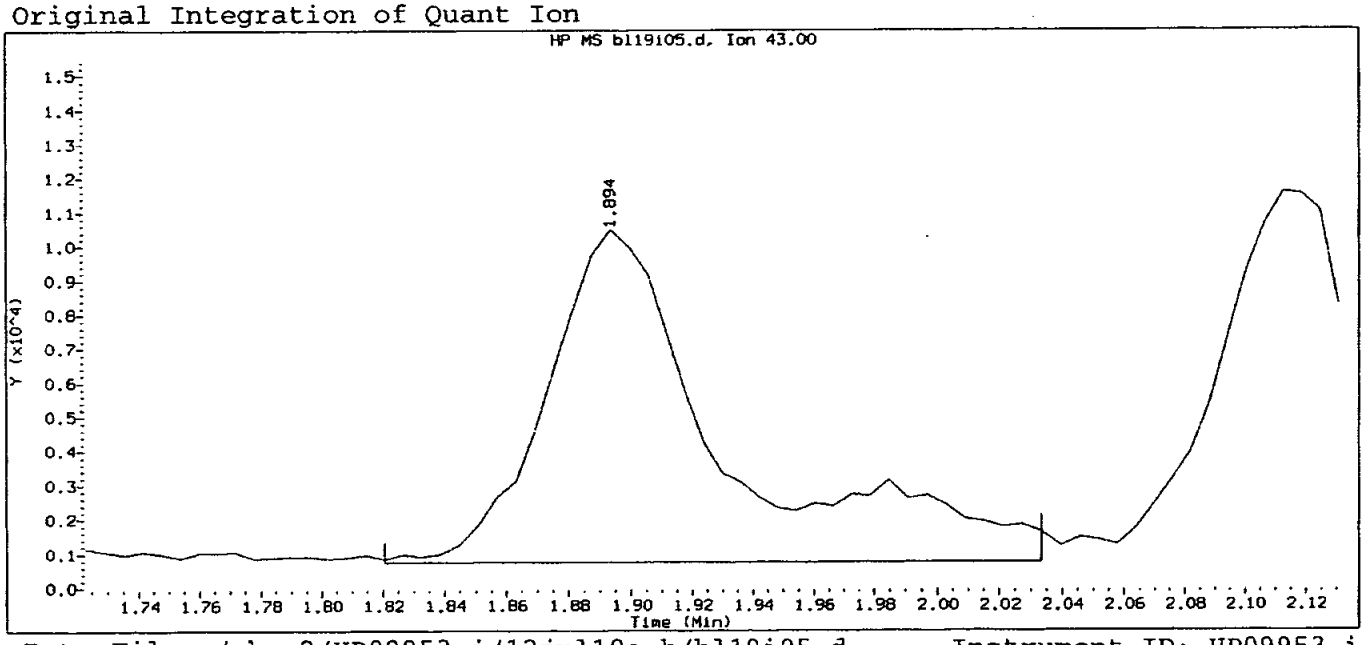
GC/MS audit/management approval: [signature] 072012

ASX73 0192

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 12:06
Date, time and analyst ID of latest file update: 19-Jul-2012 12:06 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 17		
Compound Name	: Acetone		
Scan Number	: 175		
Retention Time (minutes)	: 1.894		
Quant Ion	: 43.00		
Area	: 38323		
On-column Amount (ng)	: 25.7069		
Integration start scan	: 162	Integration stop scan:	197
Y at integration start	: 744	Y at integration end:	744

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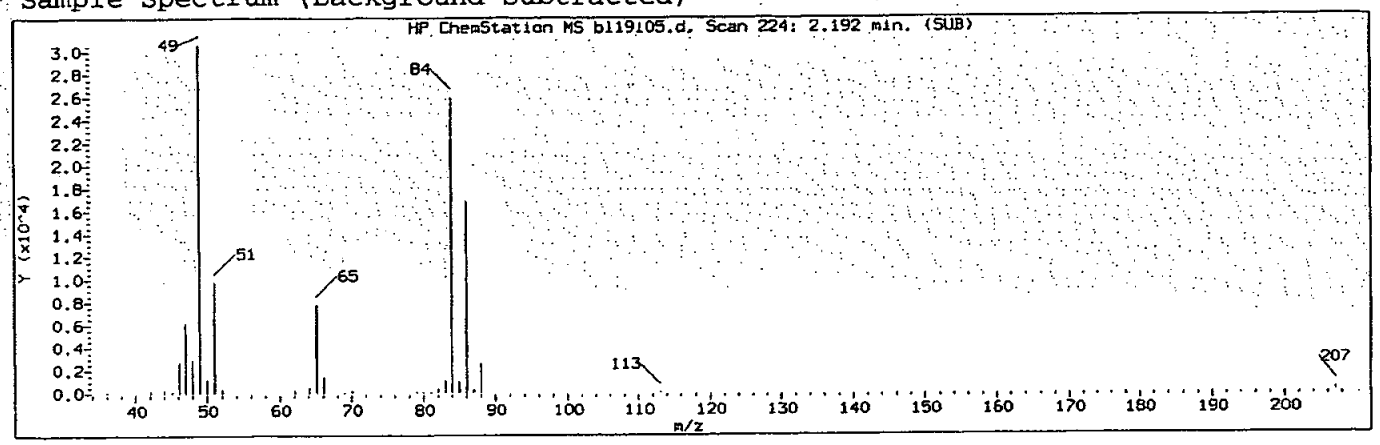
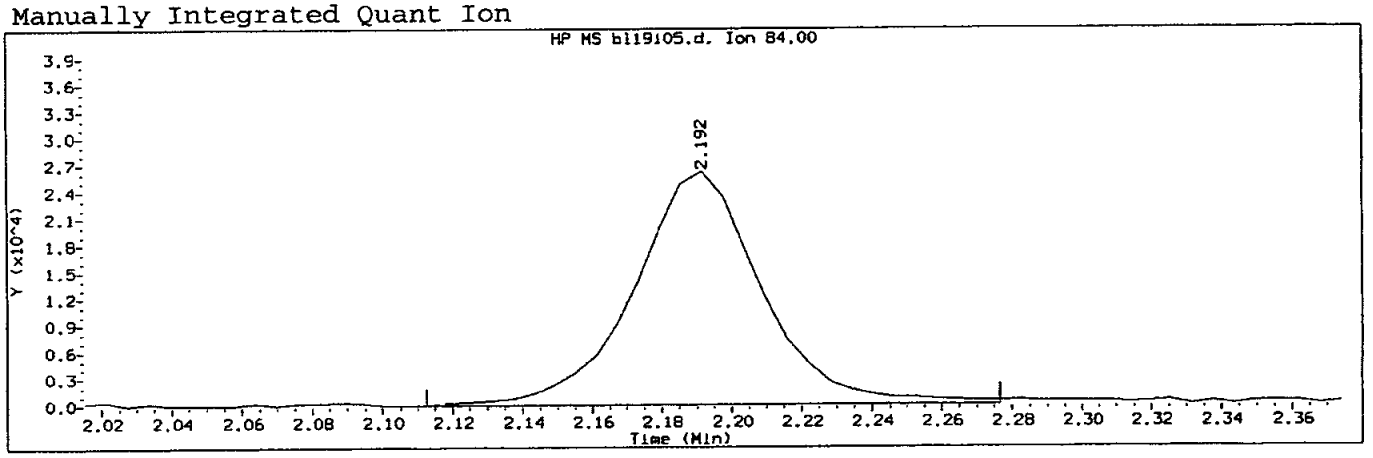
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD010 Lab Sample ID: VSTD010

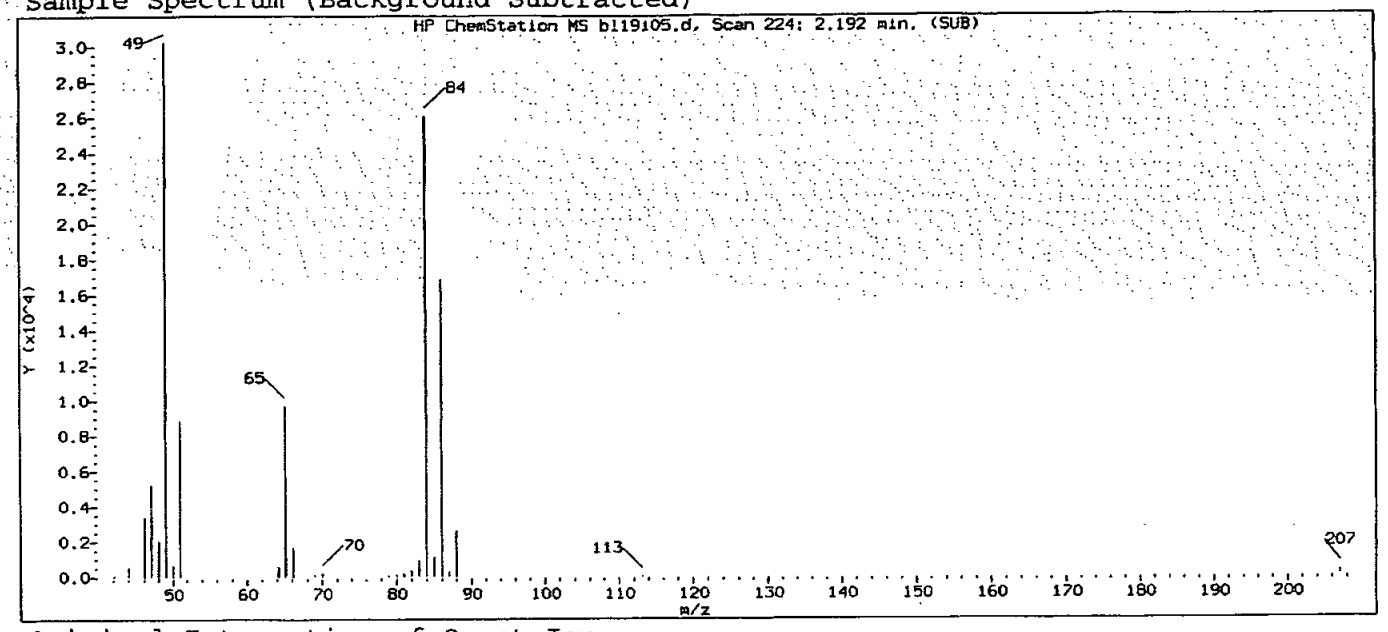
Compound Number	: 27		
Compound Name	: Methylene Chloride		
Scan Number	: 224		
Retention Time (minutes)	: 2.192		
Quant Ion	: 84.00		
Area (flag)	: 66776M		
On-Column Amount (ng)	: 10.2303		
Integration start scan	: 210	Integration stop scan:	237
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

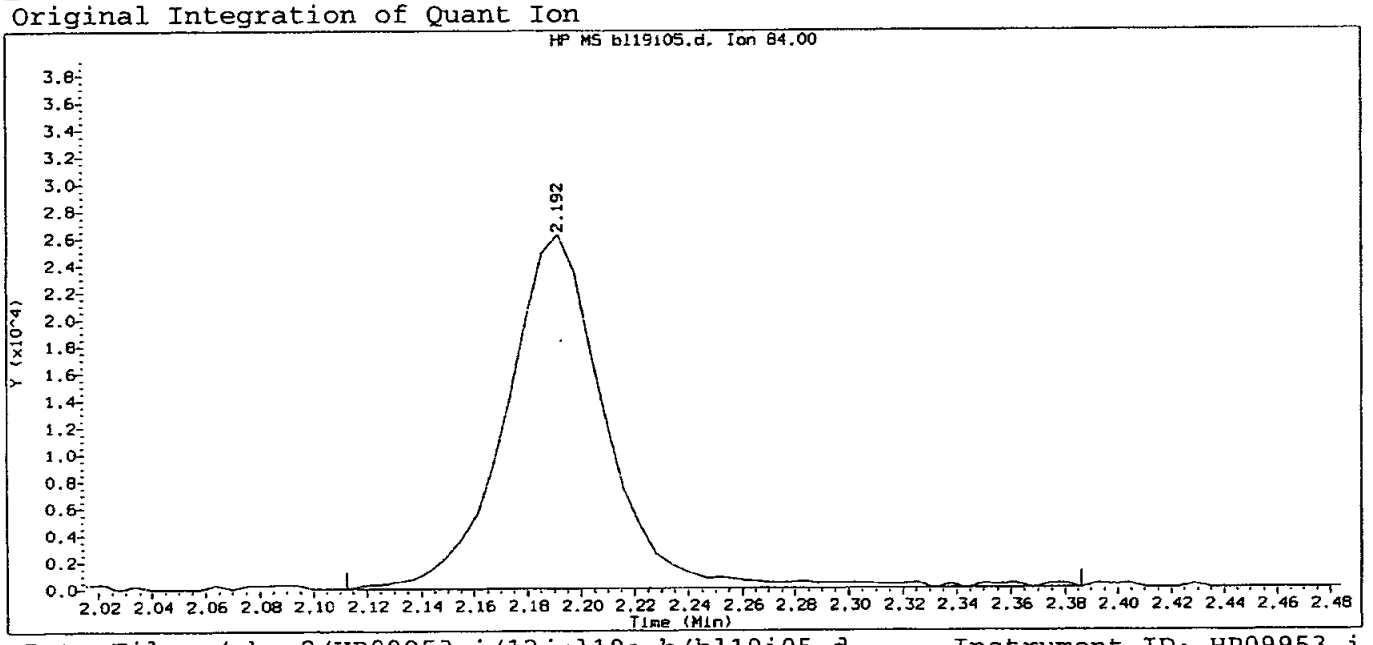
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: [illegible]

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 12:06
Date, time and analyst ID of latest file update: 19-Jul-2012 12:06 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 27		
Compound Name	: Methylene Chloride		
Scan Number	: 224		
Retention Time (minutes)	: 2.192		
Quant Ion	: 84.00		
Area	: 68554		
On-column Amount (ng)	: 11.0578		
Integration start scan	: 210	Integration stop scan:	255
Y at integration start	: 0	Y at integration end:	0

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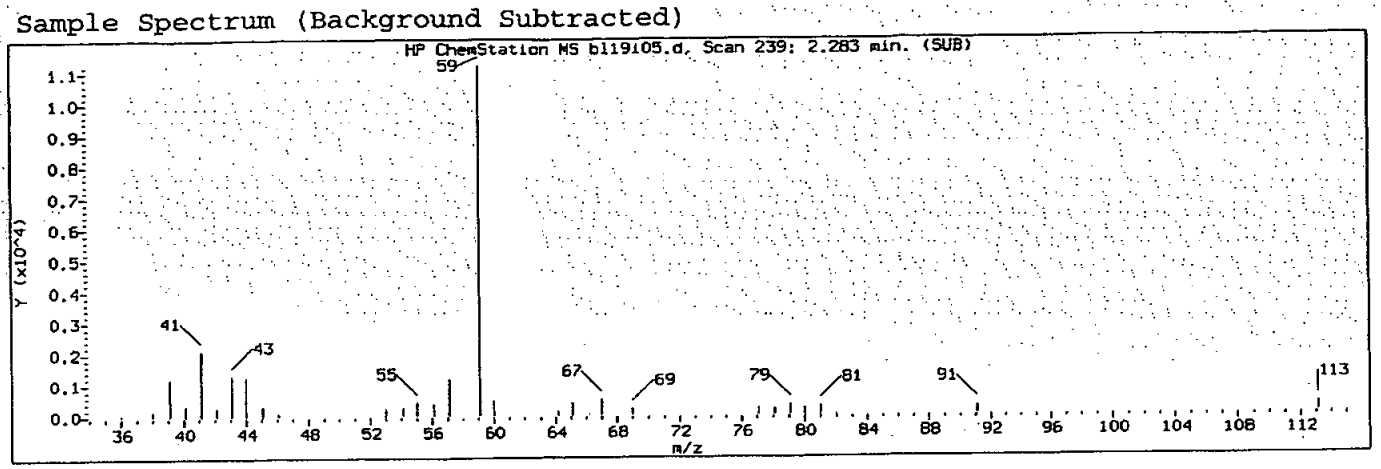
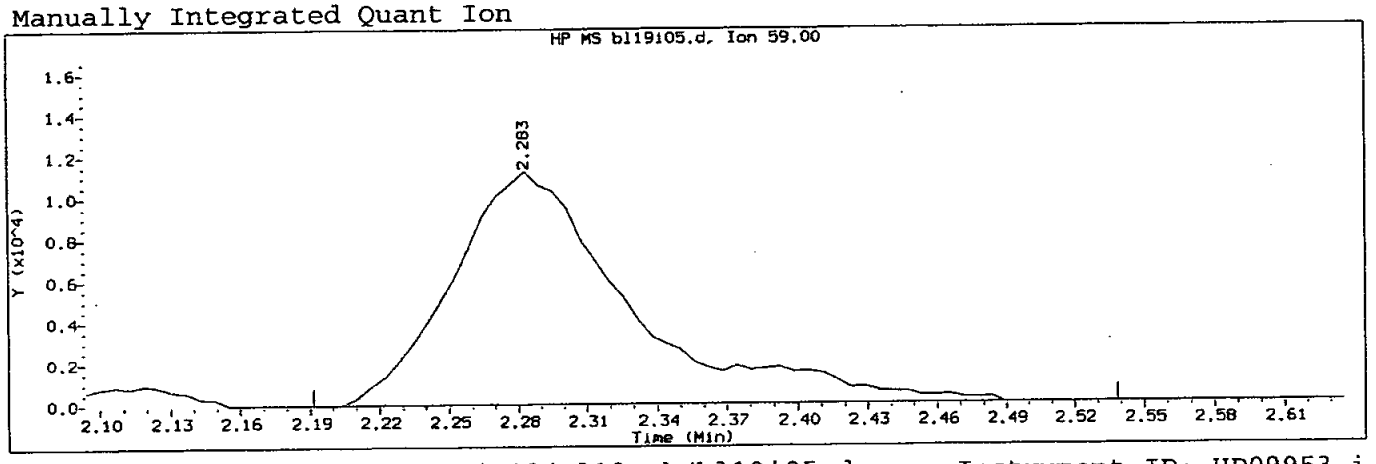
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD010 Lab Sample ID: VSTD010

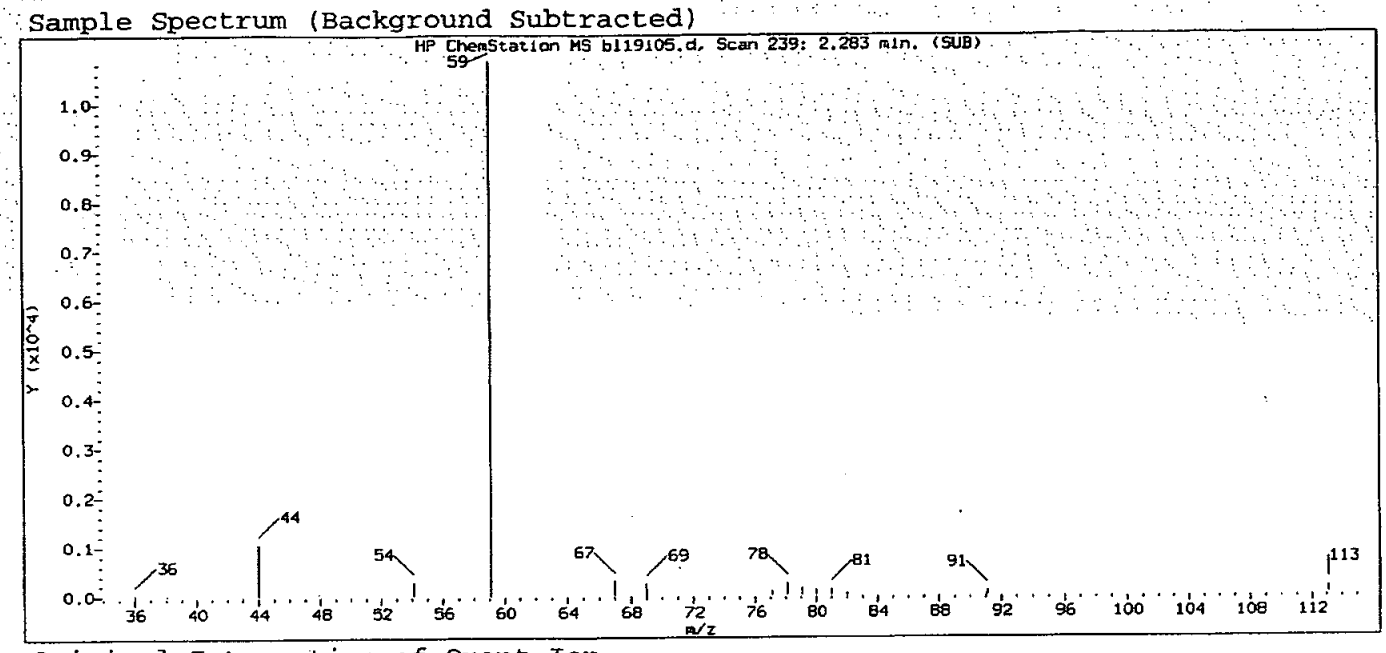
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 239		
Retention Time (minutes)	: 2.283		
Quant Ion	: 59.00		
Area (flag)	: 59865M		
On-Column Amount (ng)	: 95.8366		
Integration start scan	: 223	Integration stop scan:	280
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

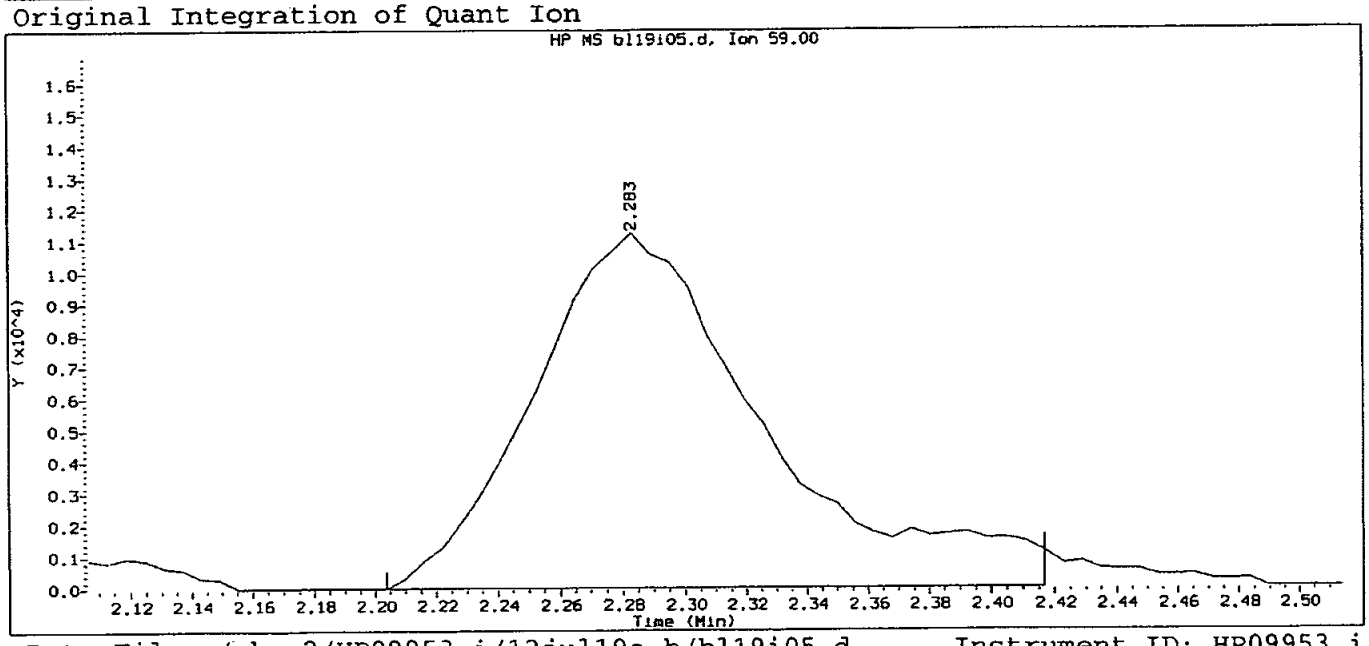
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 12:06
Date, time and analyst ID of latest file update: 19-Jul-2012 12:06 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 239		
Retention Time (minutes)	: 2.283		
Quant Ion	: 59.00		
Area	: 57758		
On-column Amount (ng)	: 91.4110		
Integration start scan	: 225	Integration stop scan:	260
Y at integration start	: 0	Y at integration end:	0

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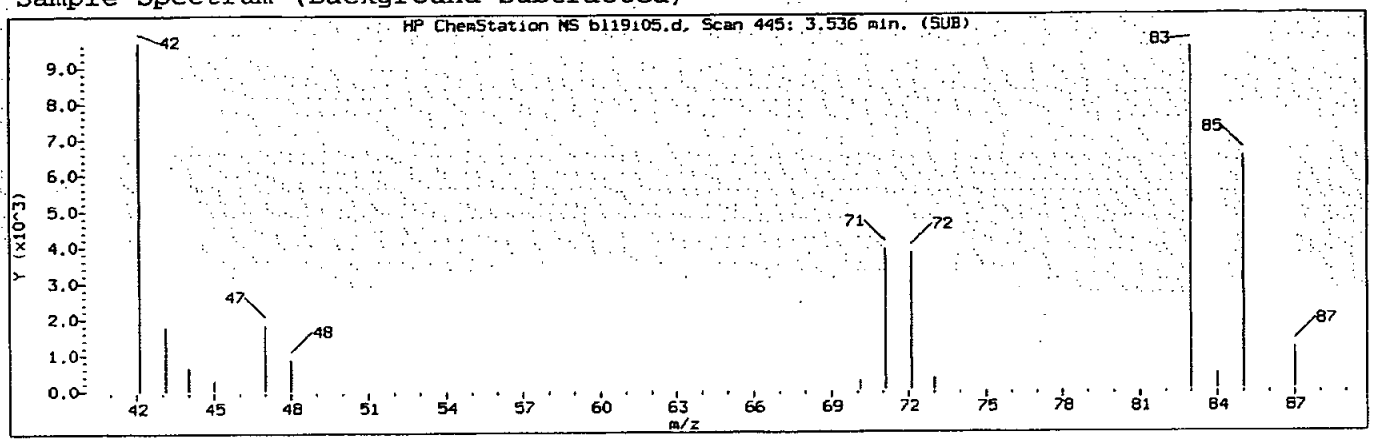
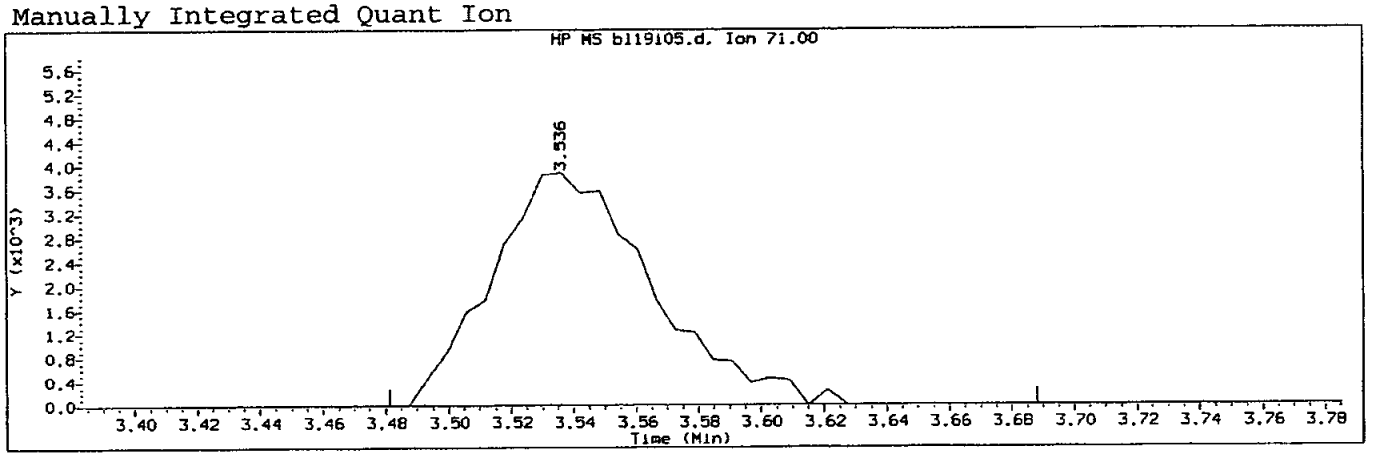
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/b119i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD010 Lab Sample ID: VSTD010

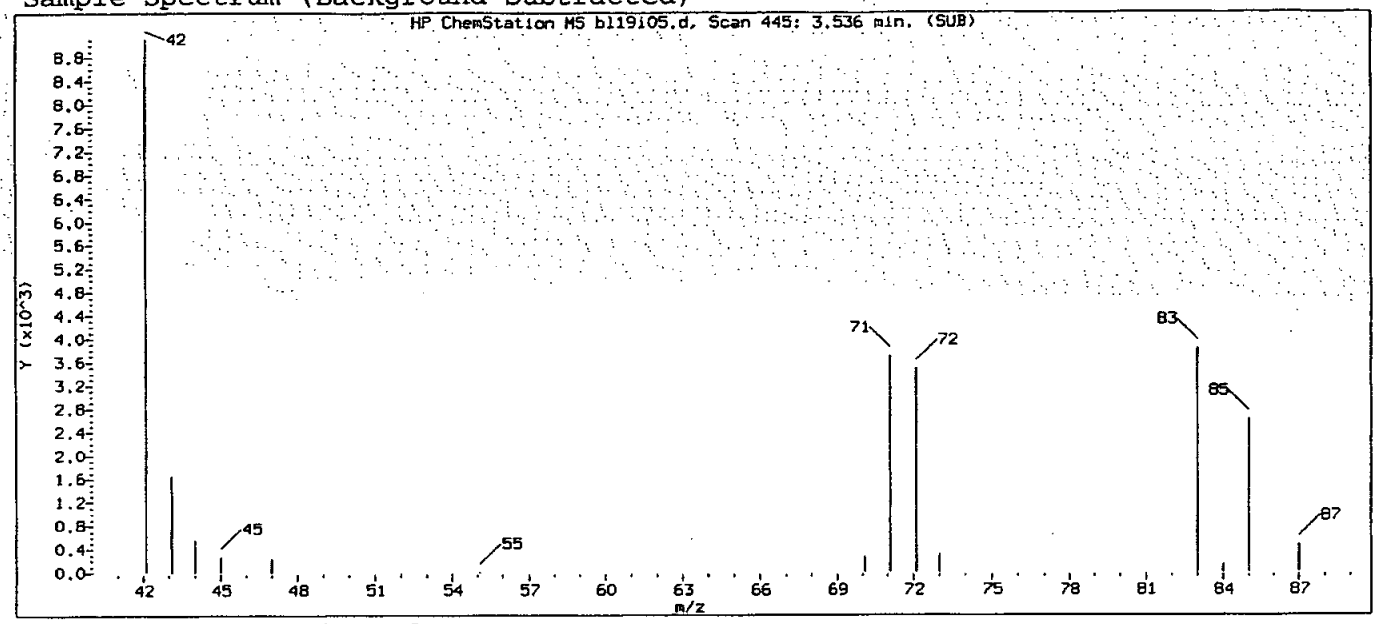
Compound Number	: 51		
Compound Name	: Tetrahydrofuran		
Scan Number	: 445		
Retention Time (minutes)	: 3.536		
Quant Ion	: 71.00		
Area (flag)	: 13930M		
On-Column Amount (ng)	: 20.0088		
Integration start scan	: 435	Integration stop scan:	469
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

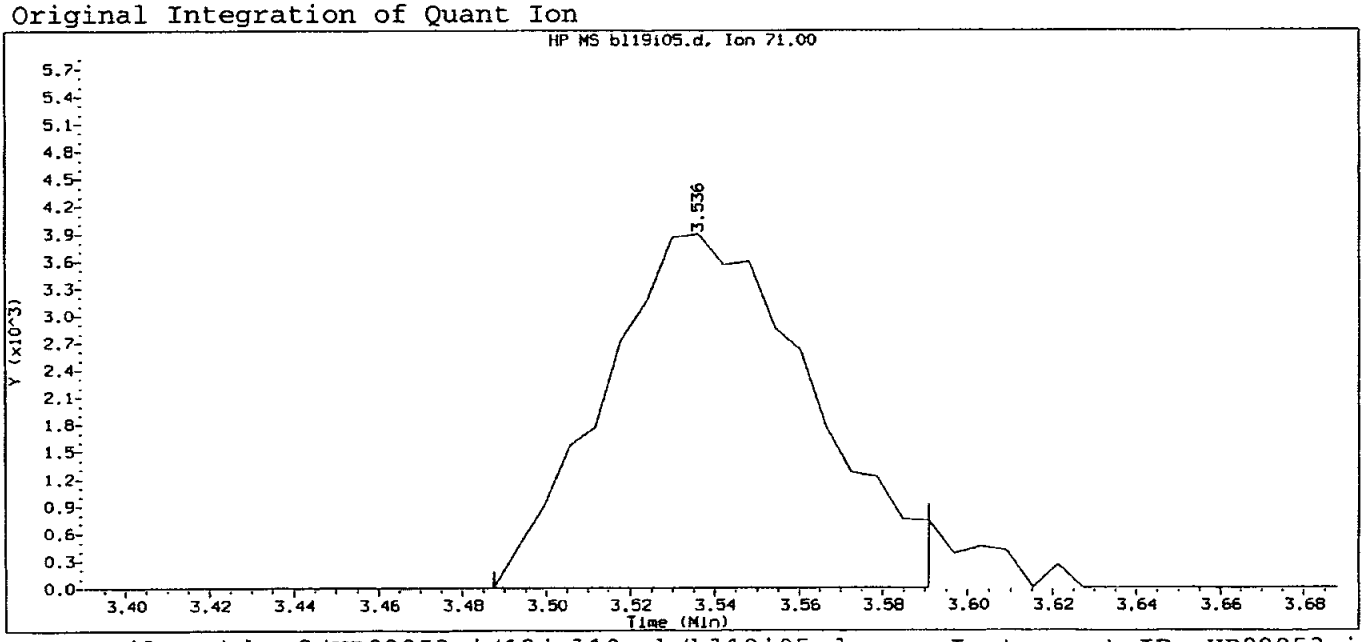
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

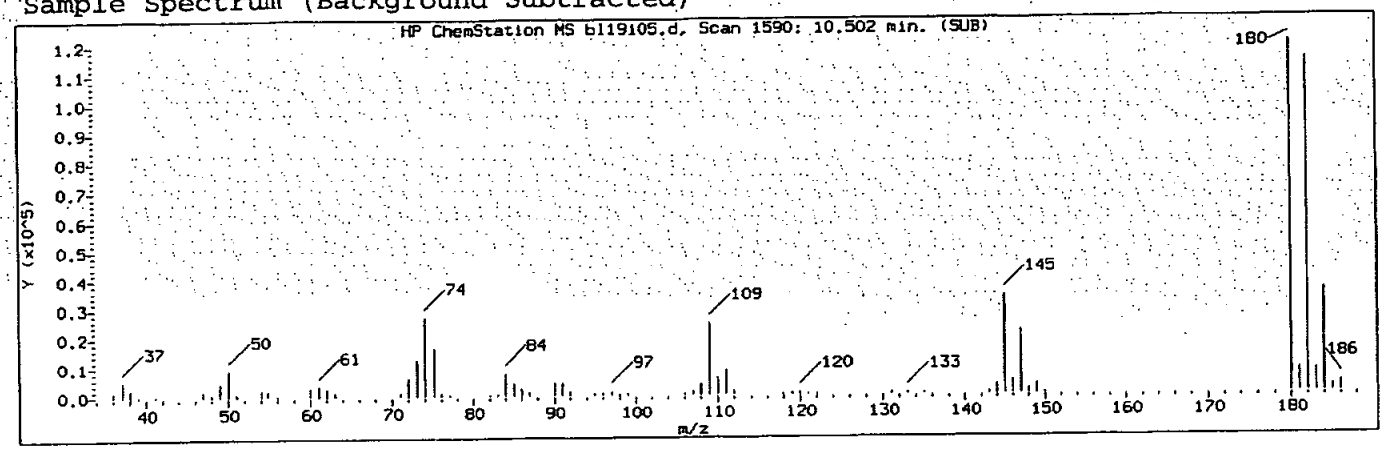
Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 12:06
Date, time and analyst ID of latest file update: 19-Jul-2012 12:06 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

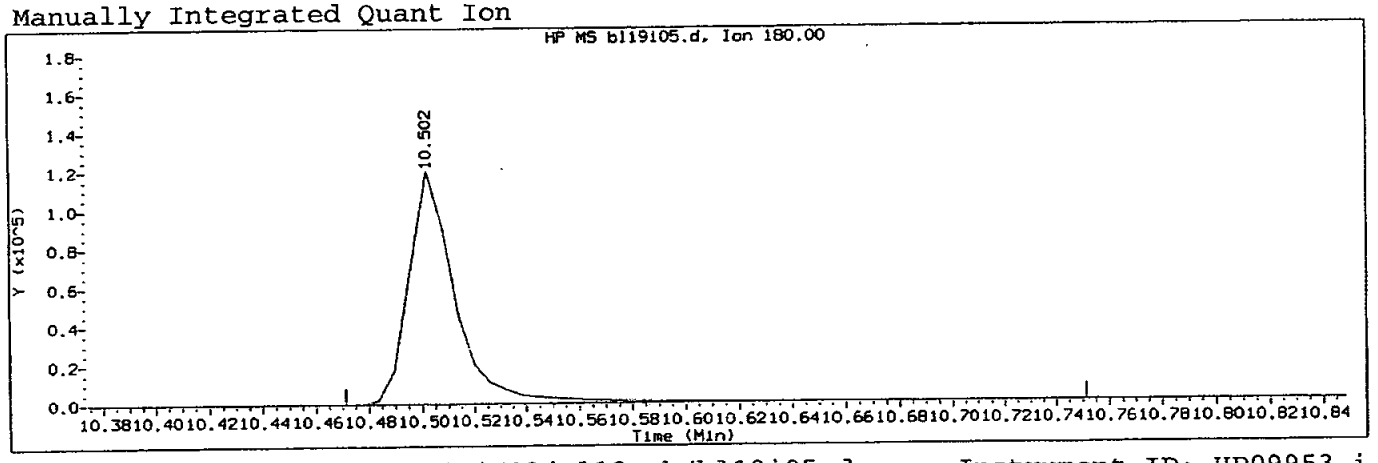
Compound Number : 51
Compound Name : Tetrahydrofuran
Scan Number : 445
Retention Time (minutes): 3.536
Quant Ion : 71.00
Area : 13251
On-column Amount (ng) : 19.3478
Integration start scan : 436 Integration stop scan: 453
Y at integration start : 0 Y at integration end: 0

Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 149		
Compound Name	: 1,3,5-Trichlorobenzene		
Scan Number	: 1590		
Retention Time (minutes)	: 10.502		
Quant Ion	: 180.00		
Area (flag)	: 148759M		
On-Column Amount (ng)	: 10.0097		
Integration start scan	: 1584	Integration stop scan:	1630
Y at integration start	: 0	Y at integration end:	0

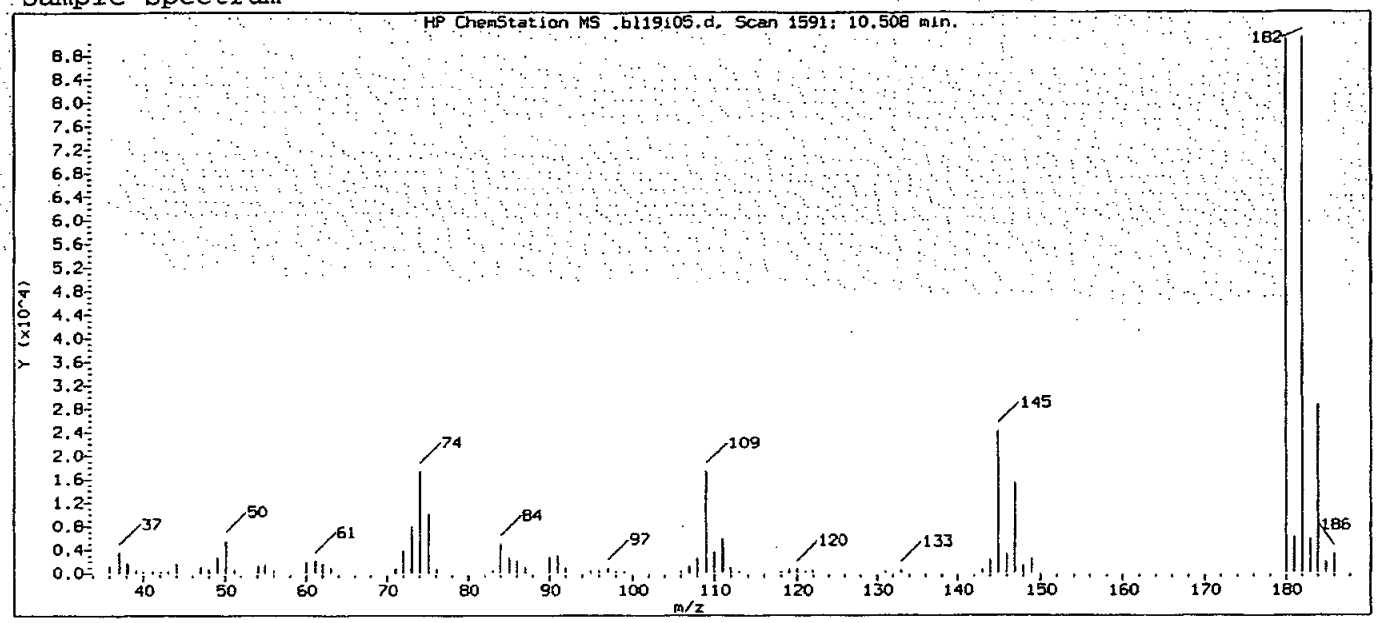
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

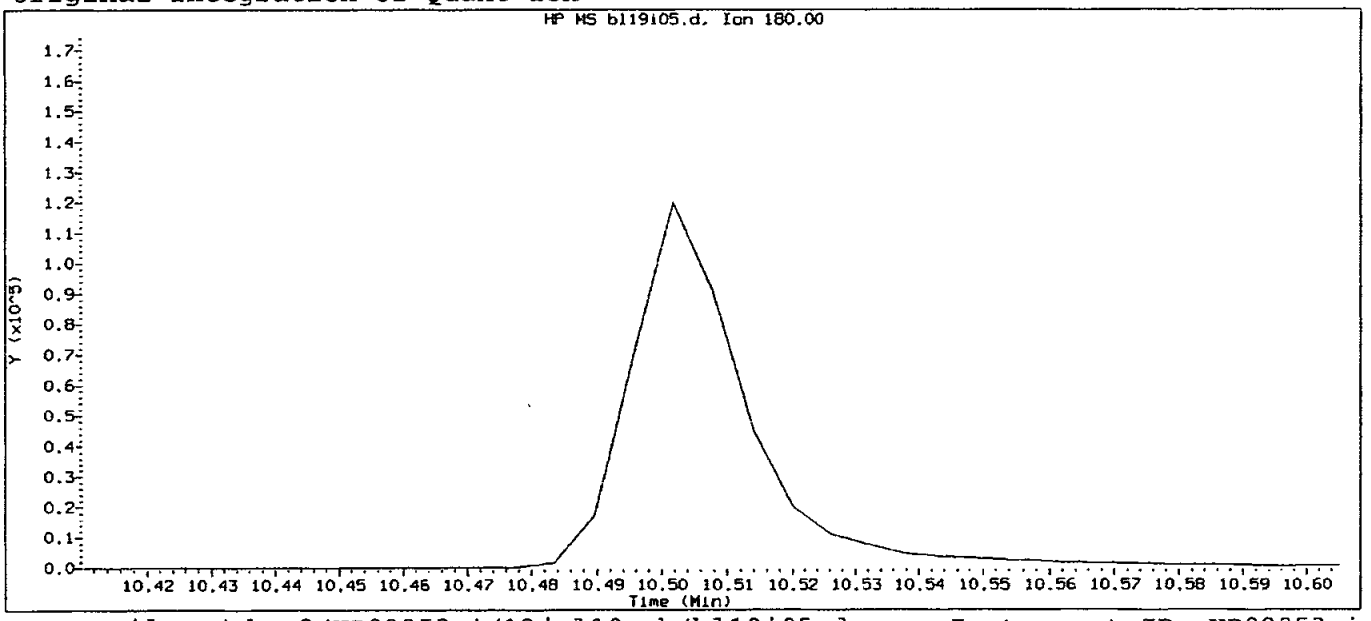
GC/MS audit/management approval: _____

ASX73 0200

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i05.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 11:49 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 12:06
Date, time and analyst ID of latest file update: 19-Jul-2012 12:06 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Expected RT (minutes) : 10.508
Quant Ion : 180.00

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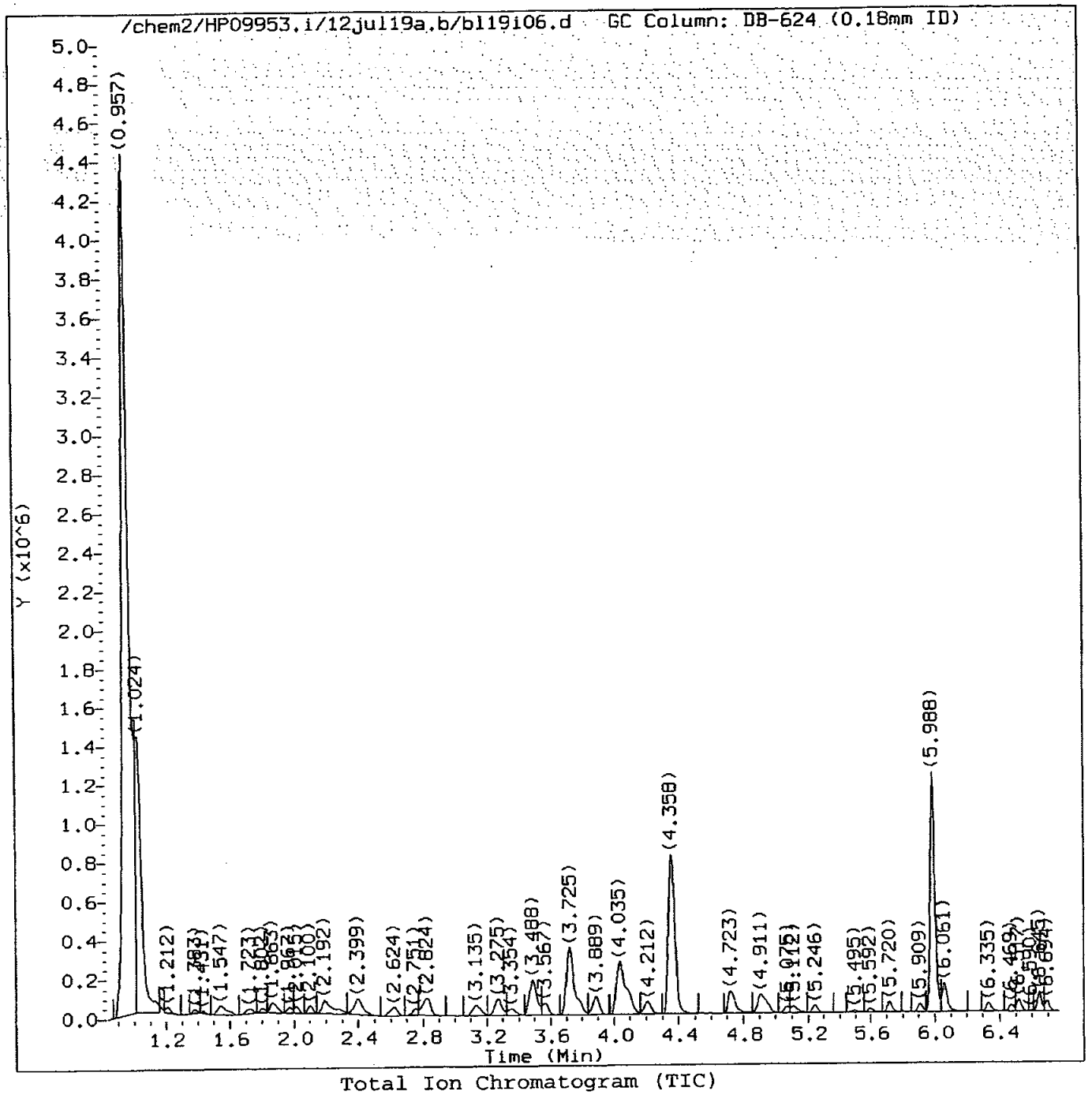
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d
Injection date and time: 19-JUL-2012 12:14

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 19-JUL-2012 12:56

Sublist used: 8260SI-E

Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD004

Lab Sample ID: VSTD004

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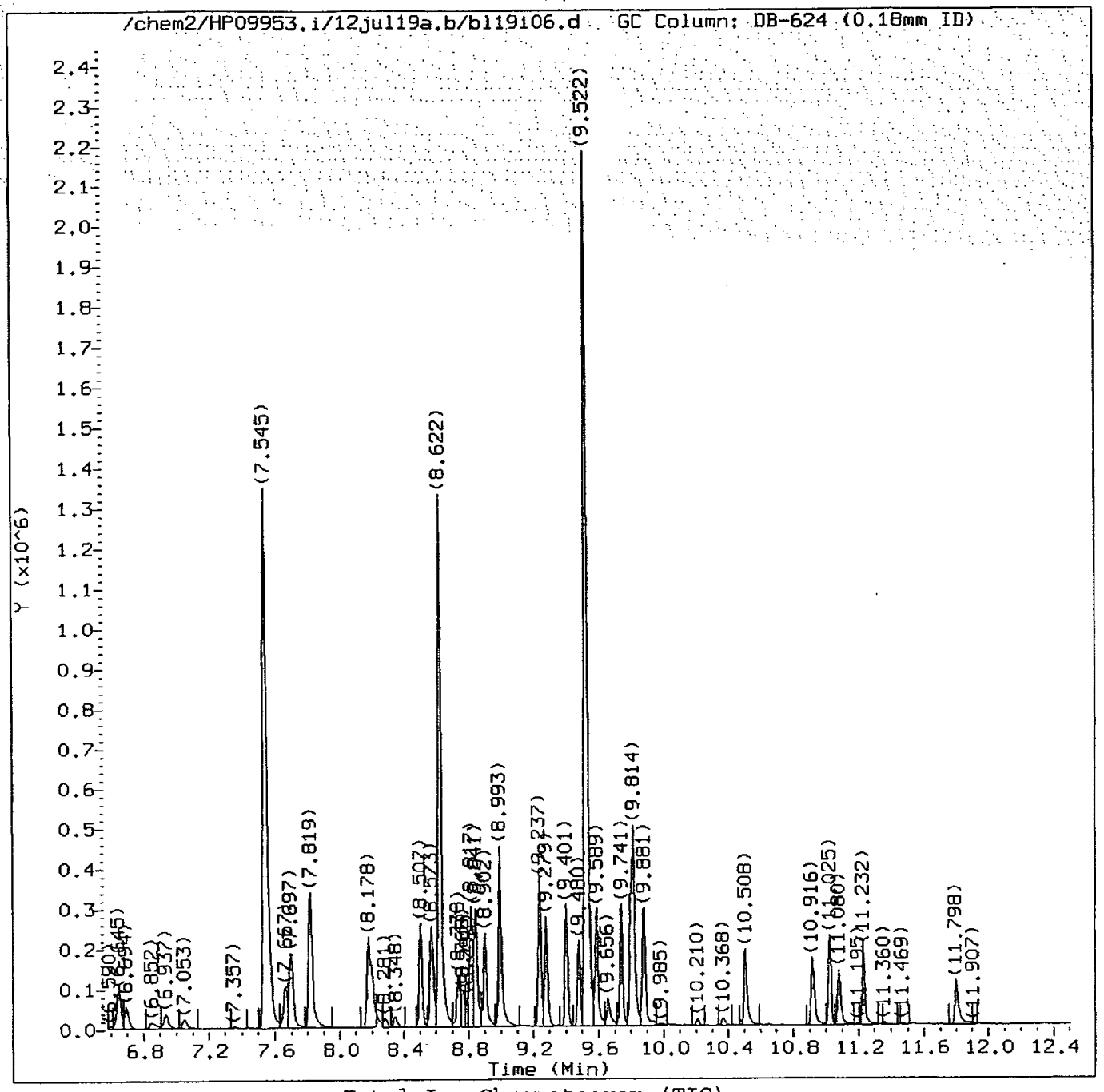
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

ASX73 0202



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD004 Lab Sample ID: VSTD004

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

ASX73 0283

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d
Injection date and time: 19-JUL-2012 12:14

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sublist used: 8260SI-E

Sample Name: VSTD004

Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.097	85	49604	4.897
3) Chloromethane	(1)	1.139	50	45472	4.461
4) Vinyl Chloride	(1)	1.212	62	39249	4.405
6) Bromomethane	(1)	1.383	94	27316	4.619
7) Chloroethane	(1)	1.431	64	21446	4.529
8) Dichlorofluoromethane	(1)	1.541	67	56816	4.747
9) Trichlorofluoromethane	(1)	1.559	101	44221M	4.381
12) Freon 123a	(1)	1.723	67	36847	4.984
13) Acrolein	(4)	1.802	56	41214	42.108
14) 1,1-Dichloroethene	(1)	1.863	96	22163	4.516
18) Freon 113	(1)	1.894	101	23741	4.350
17) Acetone	(1)	1.900	43	13741M	9.577
20) Methyl Iodide	(1)	1.967	142	43261	4.294
21) 2-Propanol	(4)	1.991	45	32269	84.782
23) Carbon Disulfide	(1)	2.021	76	66480	4.230
25) Allyl Chloride	(1)	2.100	41	42746	4.437
26) Methyl Acetate	(1)	2.119	43	18162	4.982
27) Methylene Chloride	(1)	2.192	84	32532M	5.126
28)*t-Butyl Alcohol-d10	(4)	2.216	65	91154	250.000
29) t-Butyl Alcohol	(4)	2.289	59	44991	72.696
30) Acrylonitrile	(4)	2.386	53	10063	4.700
31) trans-1,2-Dichloroethene	(1)	2.399	96	26454	4.354
32) Methyl Tertiary Butyl Ether	(1)	2.405	73	66863	4.063
35) n-Hexane	(1)	2.624	57	41981	4.628
37) 1,1-Dichloroethane	(1)	2.751	63	48896	4.323
40) di-Isopropyl Ether	(1)	2.812	45	91537	4.230
41) 2-Chloro-1,3-Butadiene	(1)	2.831	53	41782	4.289
43) Ethyl t-Butyl Ether	(1)	3.135	59	80808	4.167
44) cis-1,2-Dichloroethene	(1)	3.269	96	29438	4.253
45) 2,2-Dichloropropane	(1)	3.275	77	39174	4.265
46) 2-Butanone	(1)	3.305	43	20940	8.285
48) Propionitrile	(4)	3.354	54	58727	77.133
50) Bromochloromethane	(1)	3.488	128	13689	4.126
49) Methacrylonitrile	(4)	3.488	67	84874	38.189
51) Tetrahydrofuran	(4)	3.536	71	5696M	8.258
52) Chloroform	(1)	3.567	83	51442	4.453
53)$Dibromofluoromethane	(1)	3.719	113	248874	50.816
54)$Dibromofluoromethane(mz111)	(1)	3.719	111	250669	50.203

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Angela D. Sneeringer
on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	3.737	97	65393	4.989
56) Cyclohexane(mz69)	(1)	3.780	69	14949	4.356
58) Cyclohexane(mz84)	(1)	3.780	84	40964	4.385
57) Cyclohexane	(1)	3.786	56	52342	4.563
60) Carbon Tetrachloride	(1)	3.889	117	34902	4.122
59) 1,1-Dichloropropene	(1)	3.889	75	36347	4.208
62)$1,2-Dichloroethane-d4	(1)	4.035	102	51530	49.898
63)$1,2-Dichloroethane-d4(mz65)	(1)	4.035	65	252833	50.611
61)$1,2-Dichloroethane-d4(mz104)	(1)	4.035	104	32799	49.222
64) Isobutyl Alcohol	(4)	4.059	41	36352	184.750
65) Benzene	(1)	4.084	78	110014	4.242
67) 1,2-Dichloroethane(mz98)	(1)	4.108	98	3165	4.225
66) 1,2-Dichloroethane	(1)	4.108	62	32923	4.105
71) t-Amyl Methyl Ether	(1)	4.205	73	70644	4.122
72) n-Heptane	(1)	4.358	43	48241	4.554
73)*Fluorobenzene	(1)	4.358	96	1031874	50.000
69) 1,2-Dichloroethene (total)	(1)		96	55892	8.600
74) n-Butanol	(4)	4.723	56	54568	345.782
75) Trichloroethene	(1)	4.723	95	29098	4.243
77) Methylcyclohexane	(1)	4.905	83	50357	4.303
76) Methylcyclohexane(mz98)	(1)	4.905	98	22190	4.227
78) 1,2-Dichloropropane	(1)	4.948	63	27029	4.026
79) Dibromomethane	(1)	5.069	93	15071	3.953
81) 1,4-Dioxane	(4)	5.106	88	10541	173.171
80) Methyl Methacrylate	(1)	5.118	69	15338	3.945
83) Bromodichloromethane	(1)	5.246	83	30417	3.838
84) 2-Nitropropane	(4)	5.495	41	10267	7.733
86) 2-Chloroethyl Vinyl Ether	(1)	5.592	63	11905	3.709
87) cis-1,3-Dichloropropene	(1)	5.714	75	35927	3.813
89) 4-Methyl-2-Pentanone	(1)	5.909	43	39337	7.210
90)$Toluene-d8	(2)	5.988	98	978631	50.099
91)$Toluene-d8(mz100)	(2)	5.988	100	640805	49.871
92) Toluene	(2)	6.061	92	71597	4.276
93) trans-1,3-Dichloropropene	(2)	6.335	75	29842	3.641
95) Ethyl Methacrylate	(2)	6.469	69	26142	3.627
96) 1,1,2-Trichloroethane	(2)	6.517	97	20312	4.011
97) Tetrachloroethene	(2)	6.645	166	33578	4.260
98) 1,3-Dichloropropane	(2)	6.694	76	34296	4.019

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: ads01731

ASX73 0285

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
100) 2-Hexanone	(2)	6.852	58	12436	6.700
103) Dibromochloromethane	(2)	6.937	129	20418	3.547
105) 1,2-Dibromoethane	(2)	7.053	107	20053	3.852
106) *Chlorobenzene-d5	(2)	7.545	117	724692	50.000
107) Chlorobenzene	(2)	7.570	112	76732	4.200
108) 1,1,1,2-Tetrachloroethane	(2)	7.667	131	24556	3.763
109) Ethylbenzene	(2)	7.697	91	131613	4.171
110) m+p-Xylene	(2)	7.819	106	107617	8.584
112) Xylene (Total)	(2)		106	160347	12.769
113) o-Xylene	(2)	8.178	106	52730	4.185
115) Styrene	(2)	8.202	104	81156	3.984
116) Bromoform	(2)	8.348	173	13077	3.321
117) Isopropylbenzene	(2)	8.507	105	138975	4.226
118) Cyclohexanone	(4)	8.573	55	108615	151.875
120) $4-Bromofluorobenzene	(2)	8.622	95	358499	50.378
121) $4-Bromofluorobenzene(mz174)	(2)	8.622	174	336676	50.715
122) Bromobenzene	(3)	8.738	156	36086	4.082
123) 1,1,2,2-Tetrachloroethane	(3)	8.768	83	27279	3.867
124) 1,2,3-Trichloropropane	(3)	8.792	110	7543	3.821
125) trans-1,4-Dichloro-2-Butene	(3)	8.817	53	66168	35.611
126) n-Propylbenzene	(3)	8.847	91	163108	4.206
127) 2-Chlorotoluene	(3)	8.902	126	34526	4.137
129) 4-Chlorotoluene	(3)	8.993	126	34991	4.144
128) 1,3,5-Trimethylbenzene	(3)	8.993	105	119301	4.155
131) tert-Butylbenzene	(3)	9.237	134	26669	4.011
132) Pentachloroethane	(3)	9.243	167	18765	3.601
133) 1,2,4-Trimethylbenzene	(3)	9.279	105	119421	4.062
134) sec-Butylbenzene	(3)	9.401	105	155536	4.229
135) 1,3-Dichlorobenzene	(3)	9.480	146	67590	4.026
136) p-Isopropyltoluene	(3)	9.516	119	134218	4.144
137) *1,4-Dichlorobenzene-d4	(3)	9.529	152	430533	50.000
138) 1,4-Dichlorobenzene	(3)	9.541	146	76954	4.350
139) 1,2,3-Trimethylbenzene	(3)	9.589	105	123425	4.182
140) Benzyl Chloride	(3)	9.656	91	41223	3.132
141) 1,3-Diethylbenzene	(3)	9.741	119	77018	4.045
142) 1,4-Diethylbenzene	(3)	9.796	119	82894	4.184
143) n-Butylbenzene	(3)	9.814	92	65273	4.074
144) 1,2-Dichlorobenzene	(3)	9.814	146	66806	4.180

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: ads01731

ASX73 5296

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
145) 1,2-Diethylbenzene	(3)	9.881	119	71099	4.294
147) 1,2-Dibromo-3-Chloropropane	(3)	10.368	75	4381	3.444
149) 1,3,5-Trichlorobenzene	(3)	10.508	180	62659M	4.224
150) 1,2,4-Trichlorobenzene	(3)	10.922	180	53002	4.090
152) Hexachlorobutadiene	(3)	11.025	225	31407	4.228
153) Naphthalene	(3)	11.080	128	108282	4.093
154) 1,2,3-Trichlorobenzene	(3)	11.232	180	51407	4.215
155) 2-Methylnaphthalene	(3)	11.798	142	66087	4.154

M = Compound was manually integrated.

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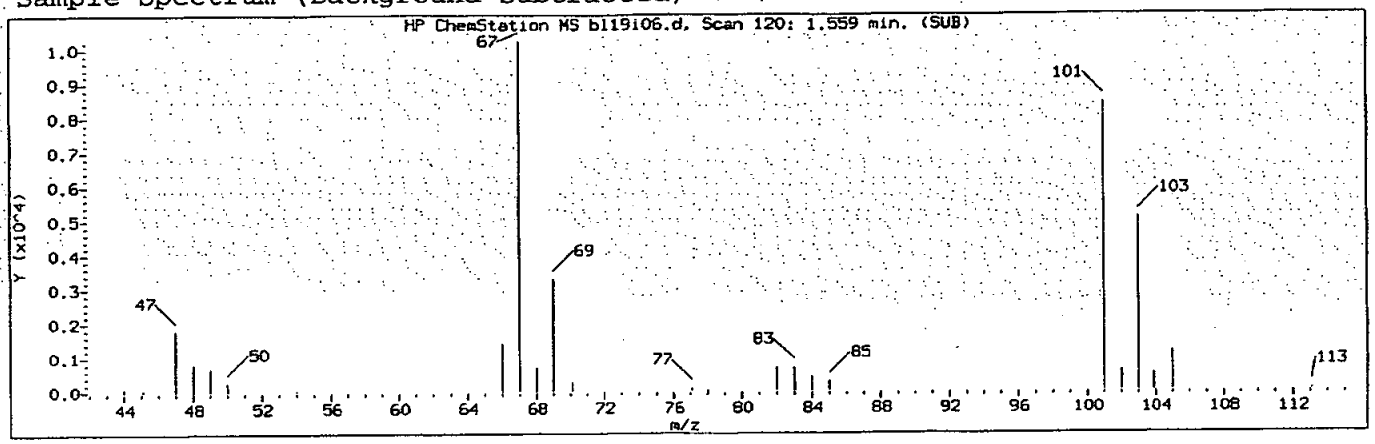
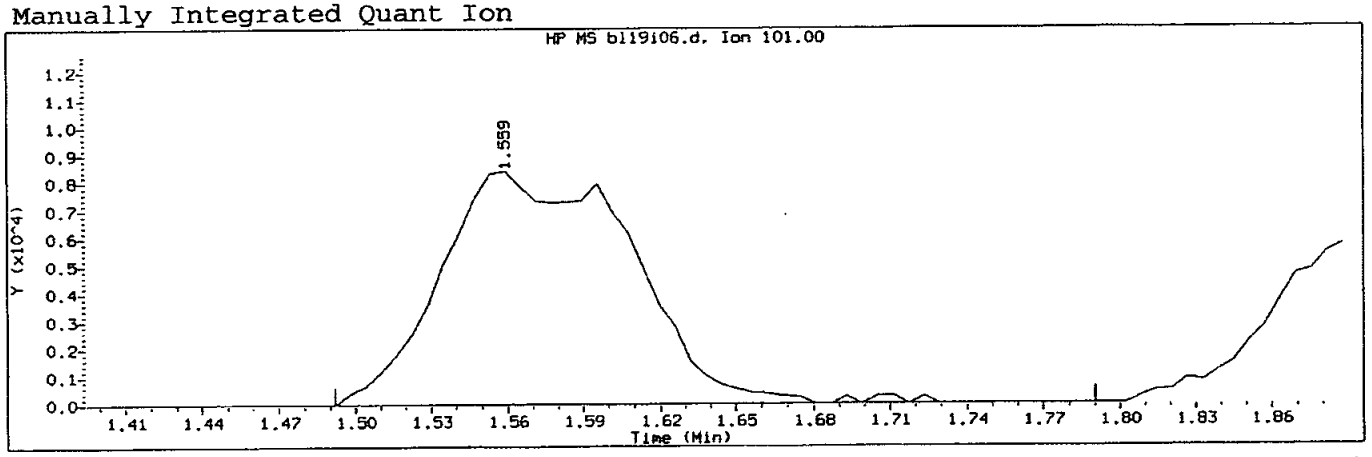
Target 3.5 esignature user ID: ads01731

ASX73 0297

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 9		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 120		
Retention Time (minutes)	: 1.559		
Quant Ion	: 101.00		
Area (flag)	: 44221M		
On-Column Amount (ng)	: 4.3815		
Integration start scan	: 108	Integration stop scan:	157
Y at integration start	: 0	Y at integration end:	0

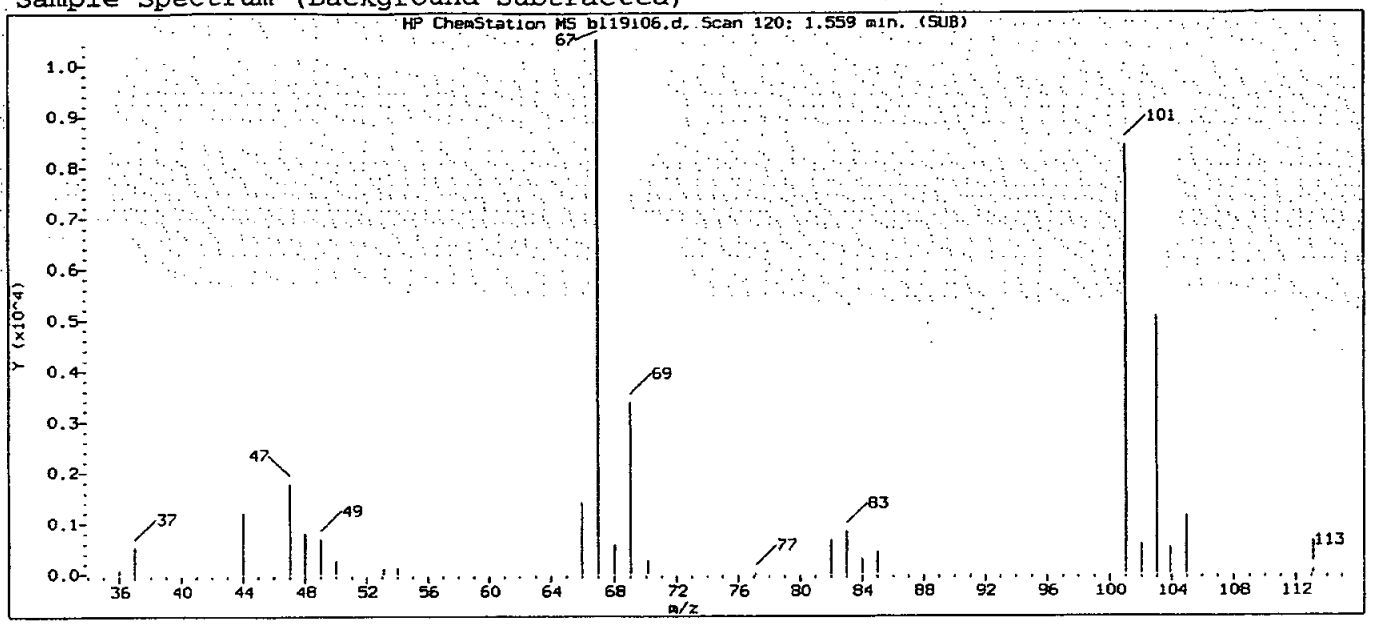
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

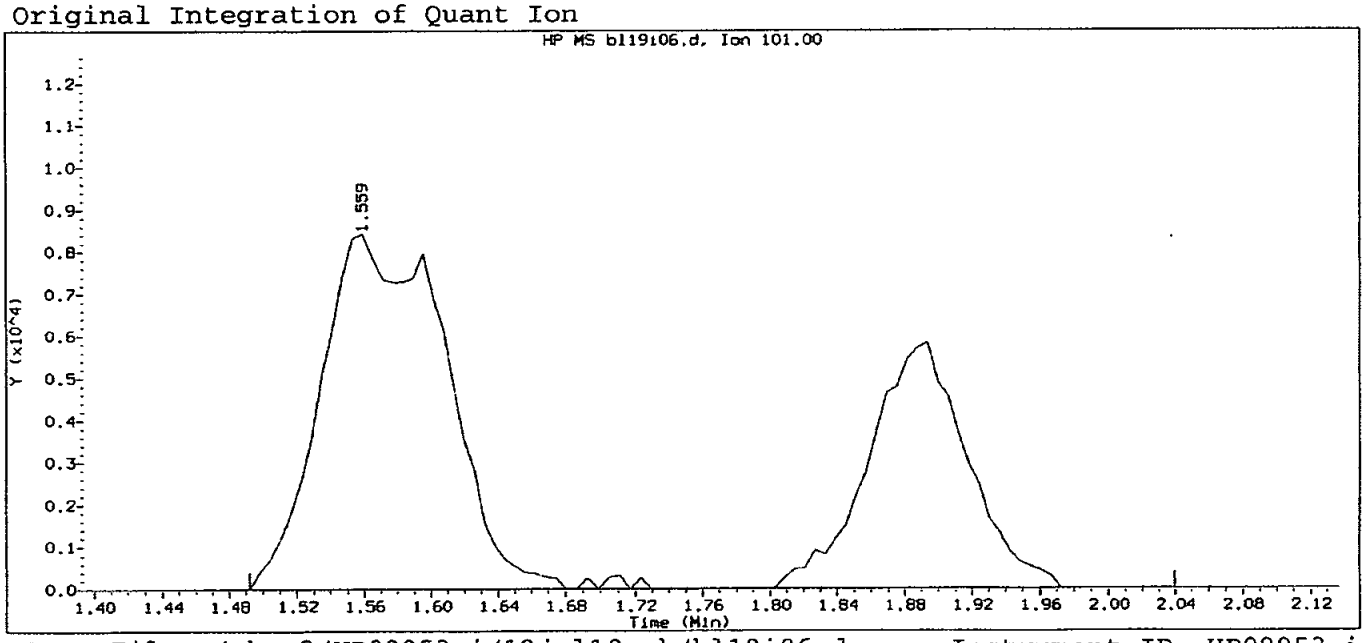
GC/MS audit/management approval: _____

ASX73 9298

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 12:30
Date, time and analyst ID of latest file update: 19-Jul-2012 12:30 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 9		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 120		
Retention Time (minutes)	: 1.559		
Quant Ion	: 101.00		
Area	: 67963		
On-column Amount (ng)	: 6.1328		
Integration start scan	: 108	Integration stop scan:	198
Y at integration start	: 0	Y at integration end:	0

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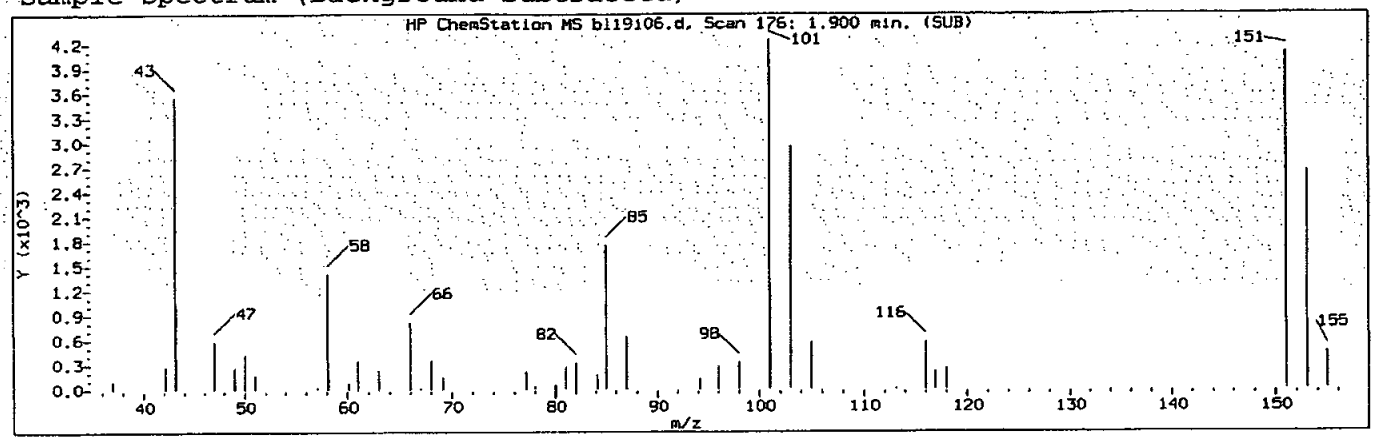
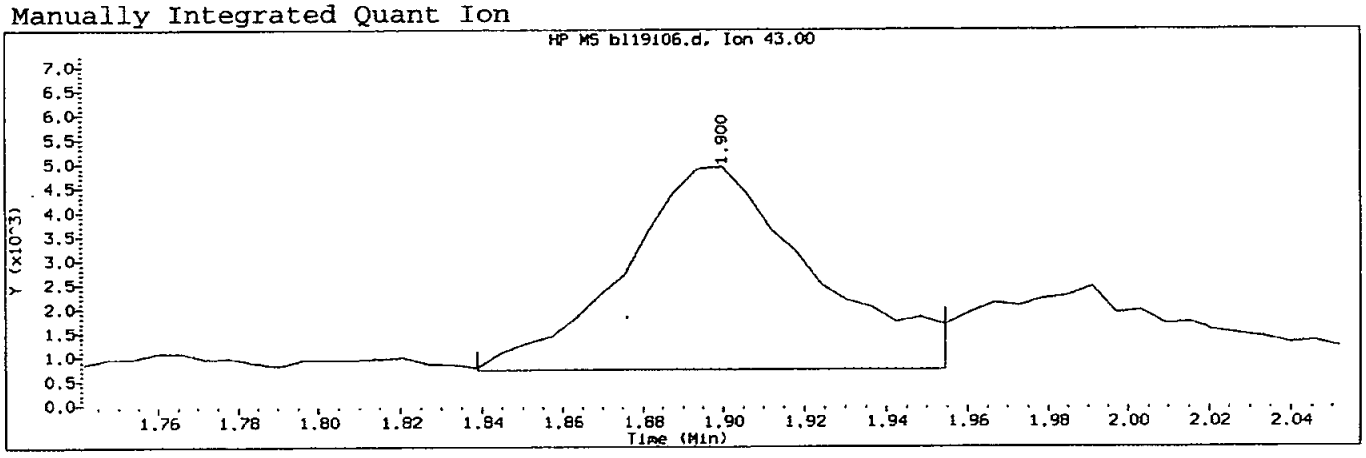
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD004 Lab Sample ID: VSTD004

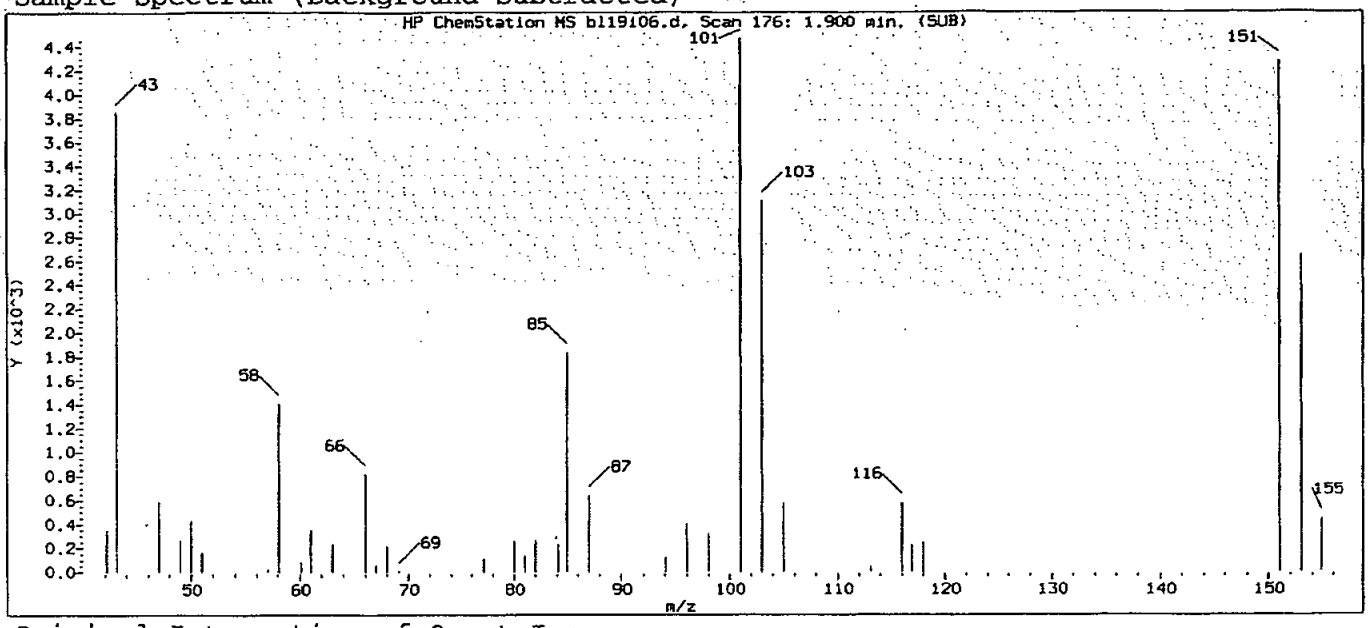
Compound Number	: 17		
Compound Name	: Acetone		
Scan Number	: 176		
Retention Time (minutes)	: 1.900		
Quant Ion	: 43.00		
Area (flag)	: 13741M		
On-Column Amount (ng)	: 9.5769		
Integration start scan	: 165	Integration stop scan:	184
Y at integration start	: 731	Y at integration end:	731

Reason for manual integration: improper integration

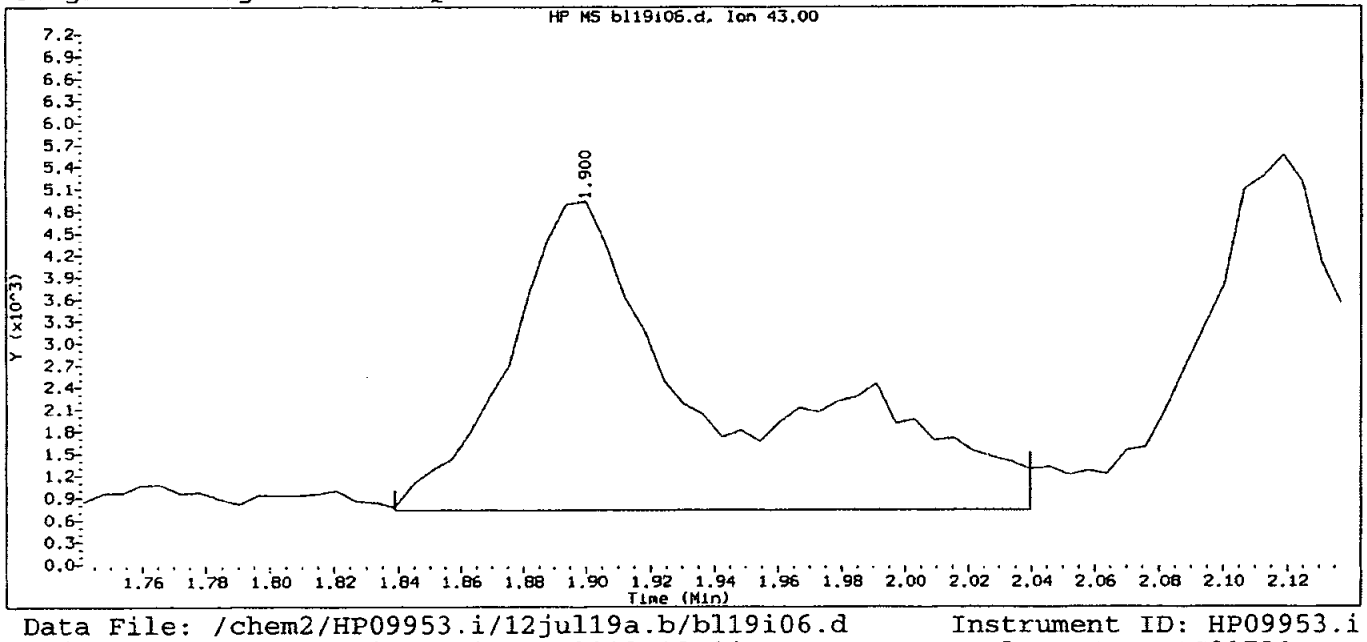
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 12:30
Date, time and analyst ID of latest file update: 19-Jul-2012 12:30 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 17		
Compound Name	: Acetone		
Scan Number	: 176		
Retention Time (minutes)	: 1.900		
Quant Ion	: 43.00		
Area	: 19360		
On-column Amount (ng)	: 12.0152		
Integration start scan	: 165	Integration stop scan:	198
Y at integration start	: 731	Y at integration end:	731

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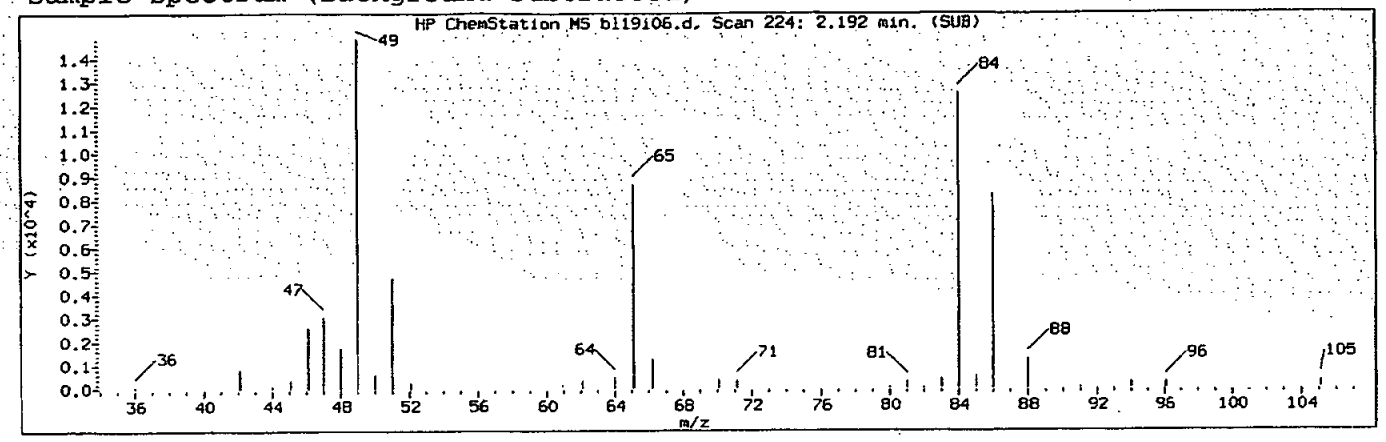
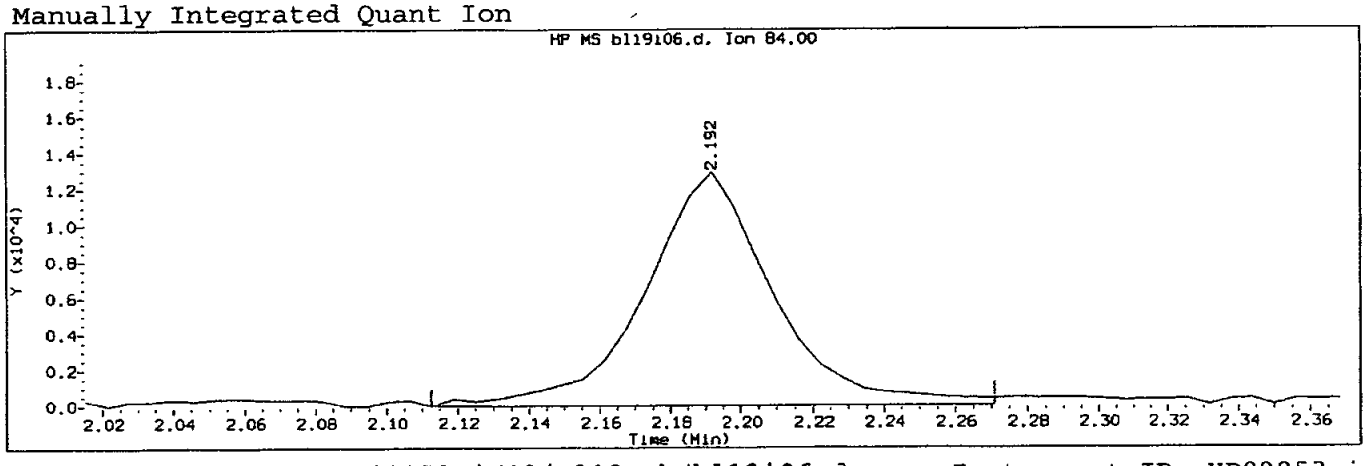
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 27		
Compound Name	: Methylene Chloride		
Scan Number	: 224		
Retention Time (minutes)	: 2.192		
Quant Ion	: 84.00		
Area (flag)	: 32532M		
On-Column Amount (ng)	: 5.1257		
Integration start scan	: 210	Integration stop scan:	236
Y at integration start	: 0	Y at integration end:	0

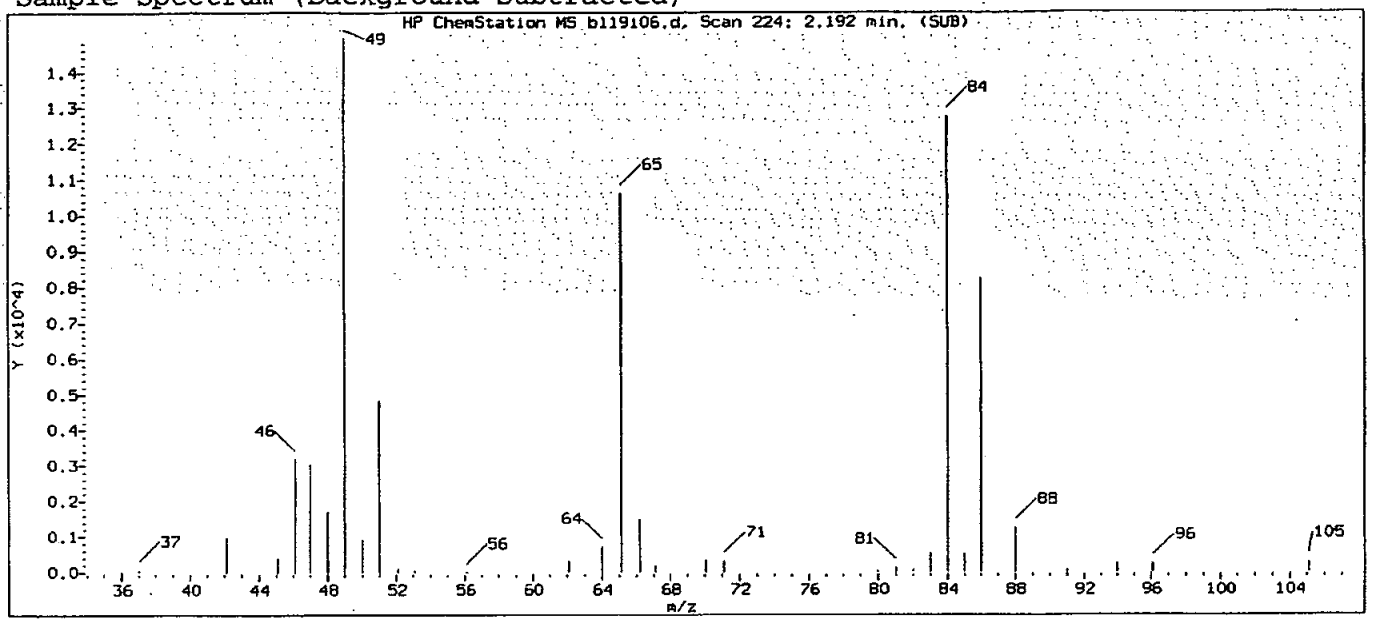
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

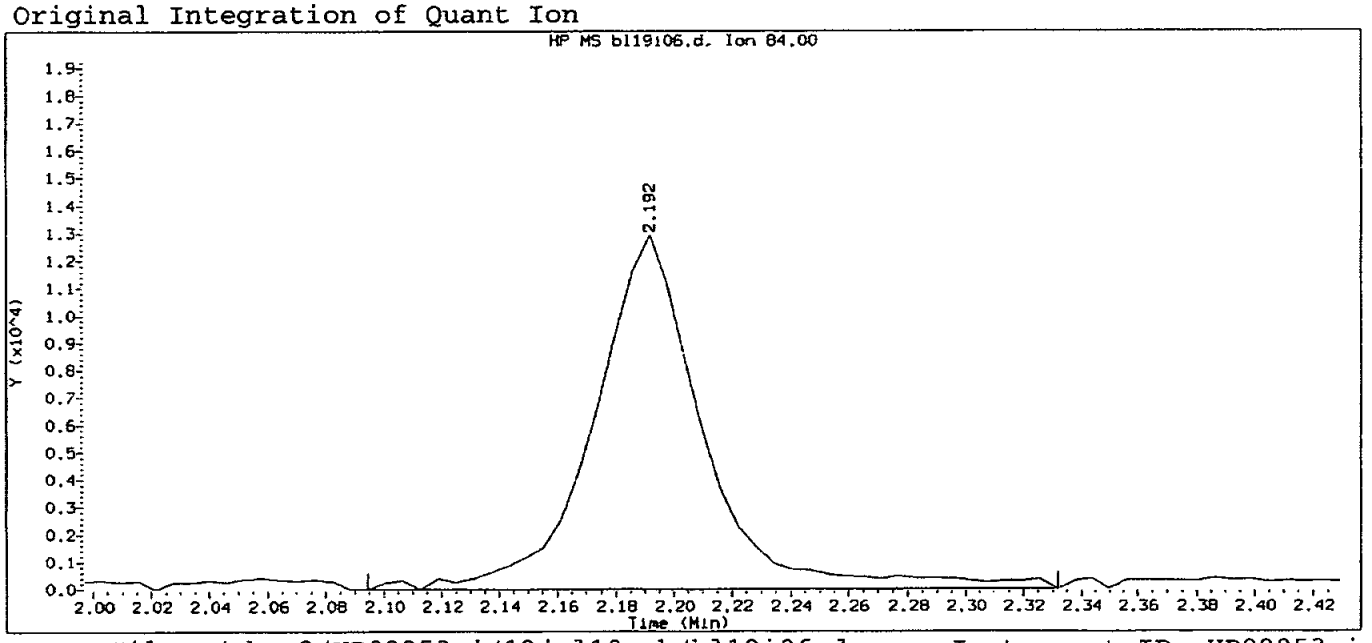
GC/MS audit/management approval: _____

ASX73 0212

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 12:30
Date, time and analyst ID of latest file update: 19-Jul-2012 12:30 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 27
Compound Name : Methylene Chloride
Scan Number : 224
Retention Time (minutes): 2.192
Quant Ion : 84.00
Area : 33922
On-column Amount (ng) : 5.2699
Integration start scan : 207 Integration stop scan: 246
Y at integration start : 0 Y at integration end: 0

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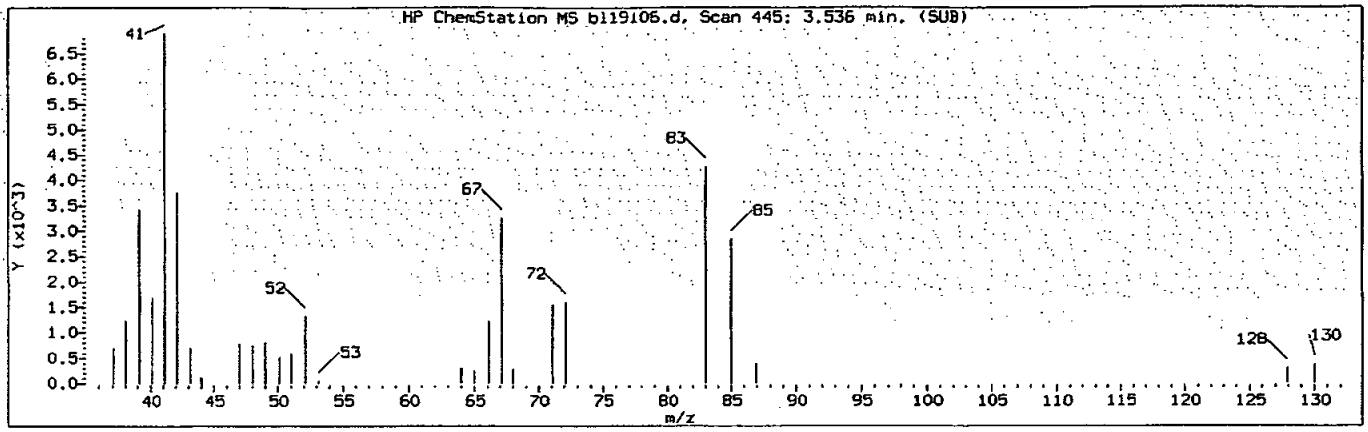
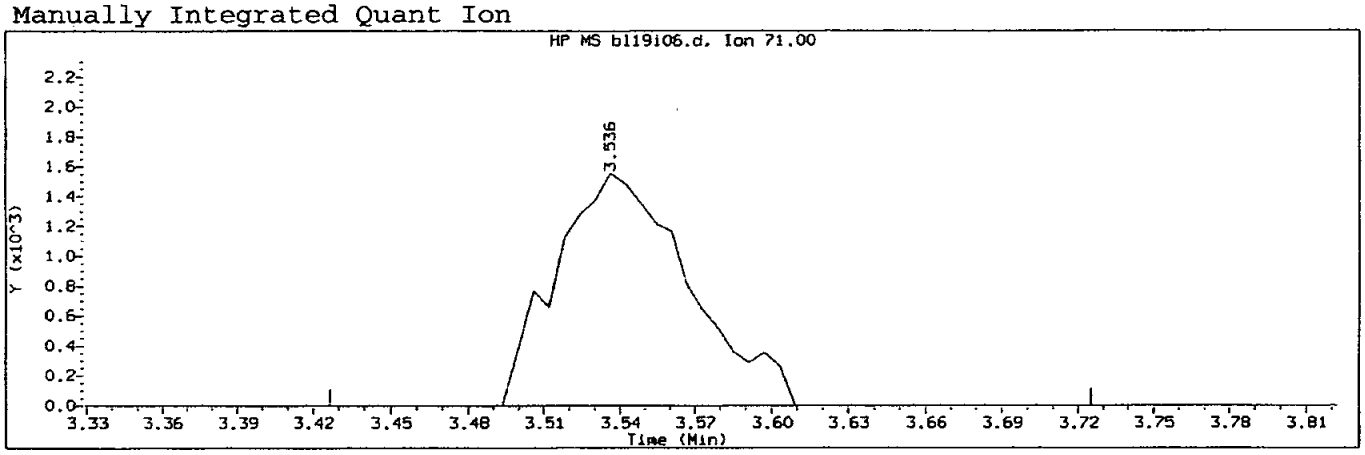
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 51		
Compound Name	: Tetrahydrofuran		
Scan Number	: 445		
Retention Time (minutes)	: 3.536		
Quant Ion	: 71.00		
Area (flag)	: 5696M		
On-Column Amount (ng)	: 8.2578		
Integration start scan	: 426	Integration stop scan:	475
Y at integration start	: 0	Y at integration end:	0

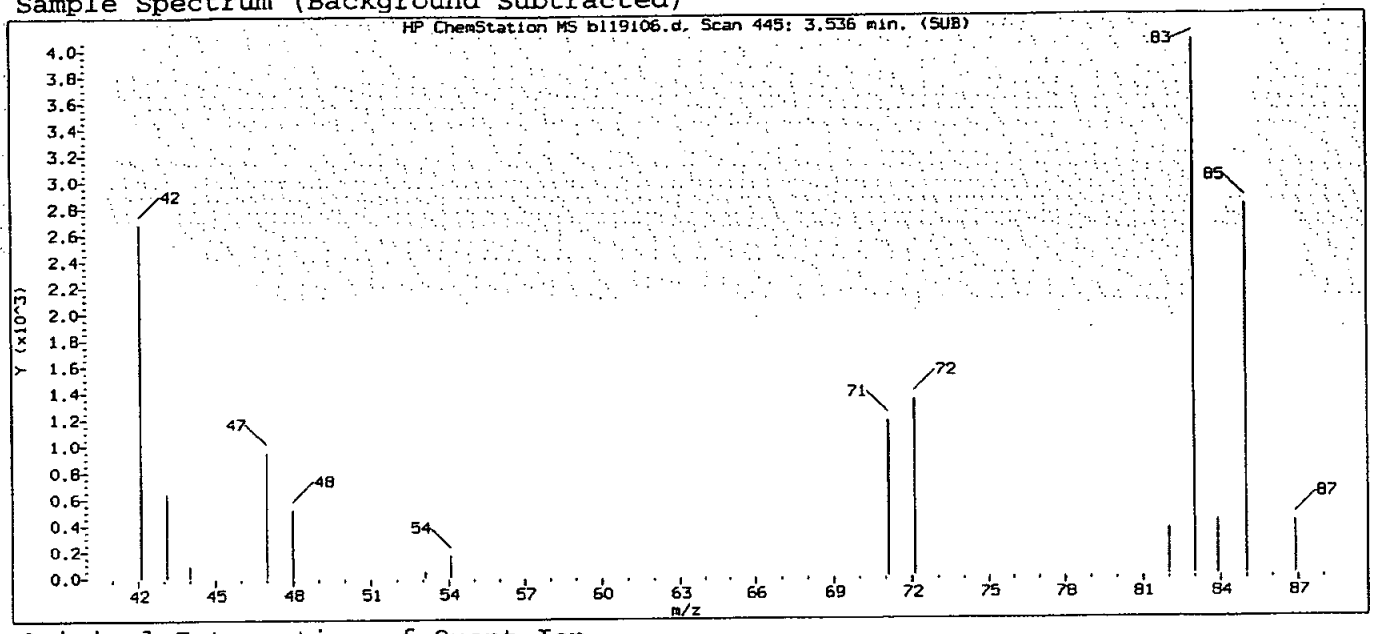
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

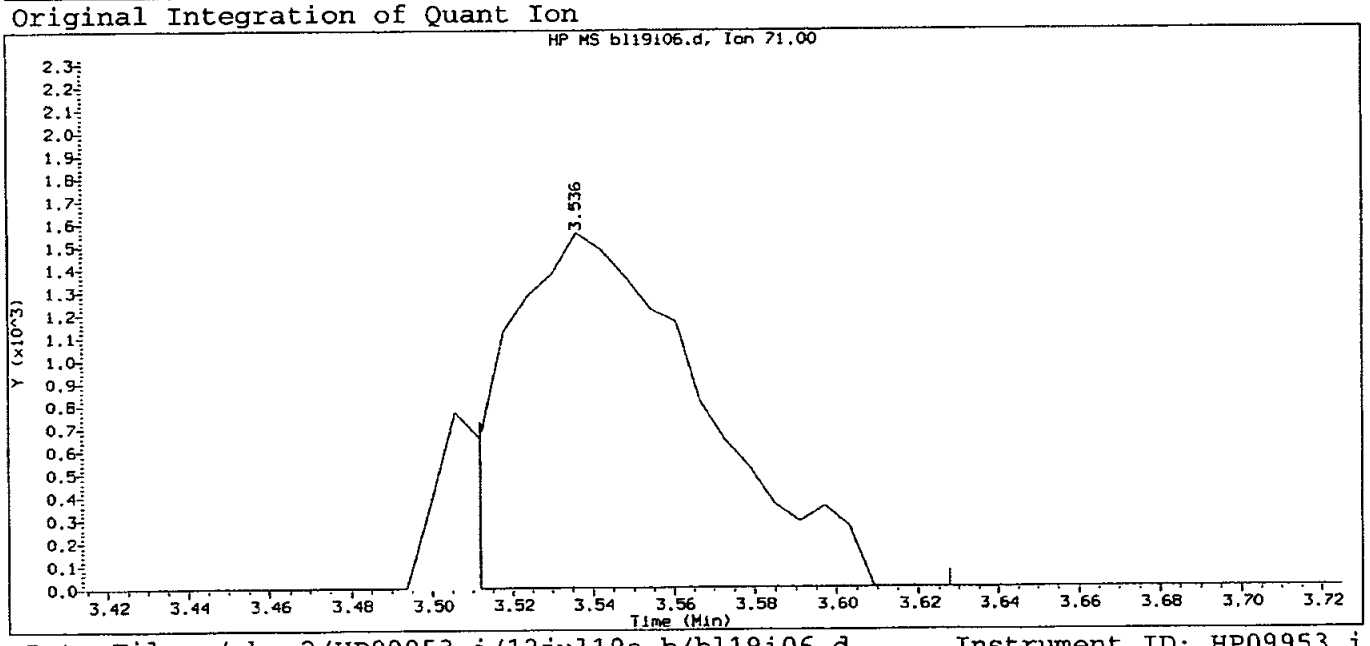
GC/MS audit/management approval: _____

ASX73 8214

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

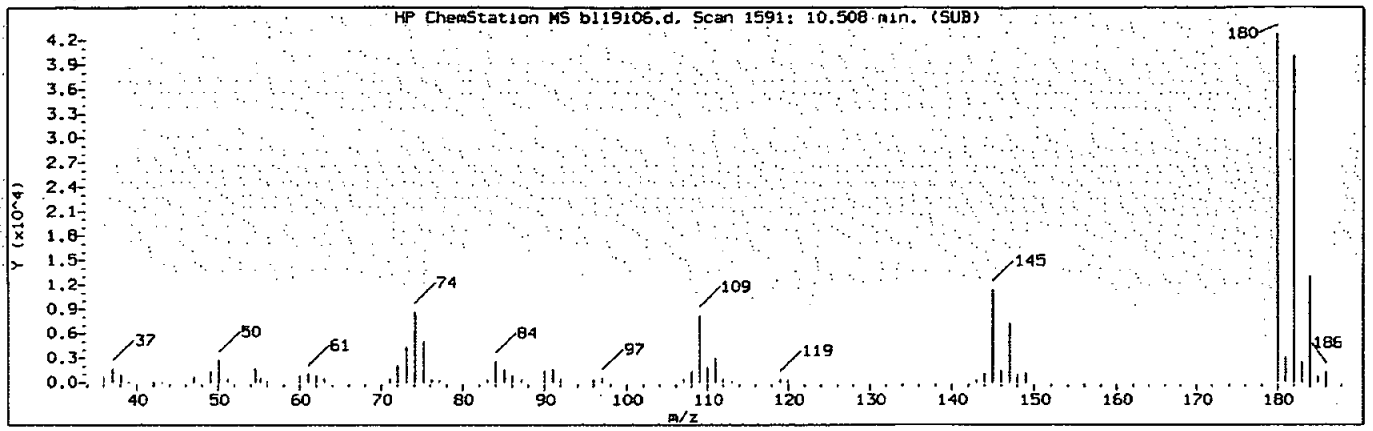
Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 12:30
Date, time and analyst ID of latest file update: 19-Jul-2012 12:30 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

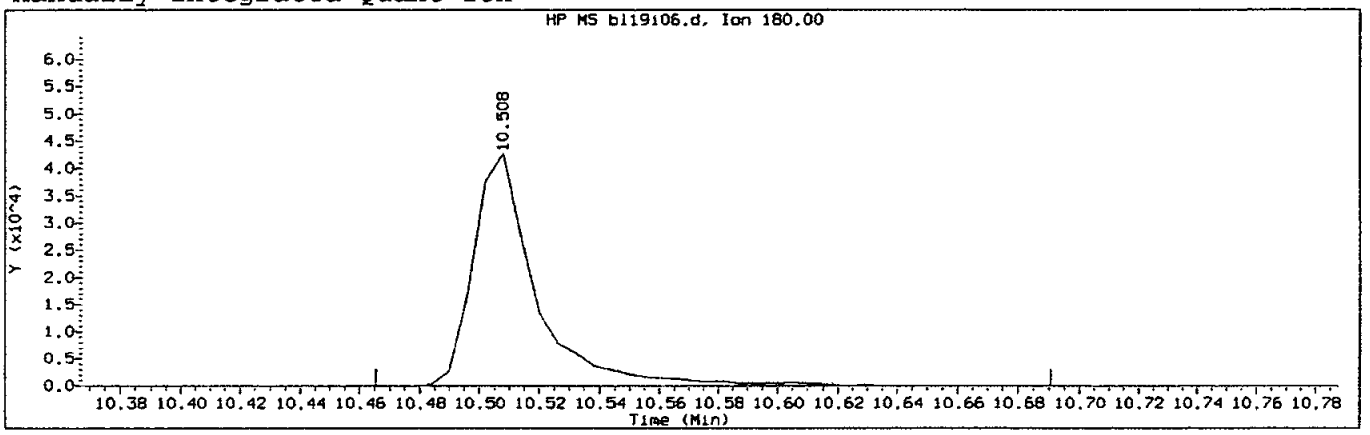
Compound Number : 51
Compound Name : Tetrahydrofuran
Scan Number : 445
Retention Time (minutes): 3.536
Quant Ion : 71.00
Area : 5160
On-column Amount (ng) : 7.6676
Integration start scan : 440 Integration stop scan: 459
Y at integration start : 0 Y at integration end: 0

Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 19-JUL-2012 12:56
Date, time and analyst ID of latest file update: 19-Jul-2012 12:56 ads01731

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 149		
Compound Name	: 1,3,5-Trichlorobenzene		
Scan Number	: 1591		
Retention Time (minutes)	: 10.508		
Quant Ion	: 180.00		
Area (flag)	: 62659M		
On-Column Amount (ng)	: 4.2236		
Integration start scan	: 1583	Integration stop scan:	1620
Y at integration start	: 0	Y at integration end:	0

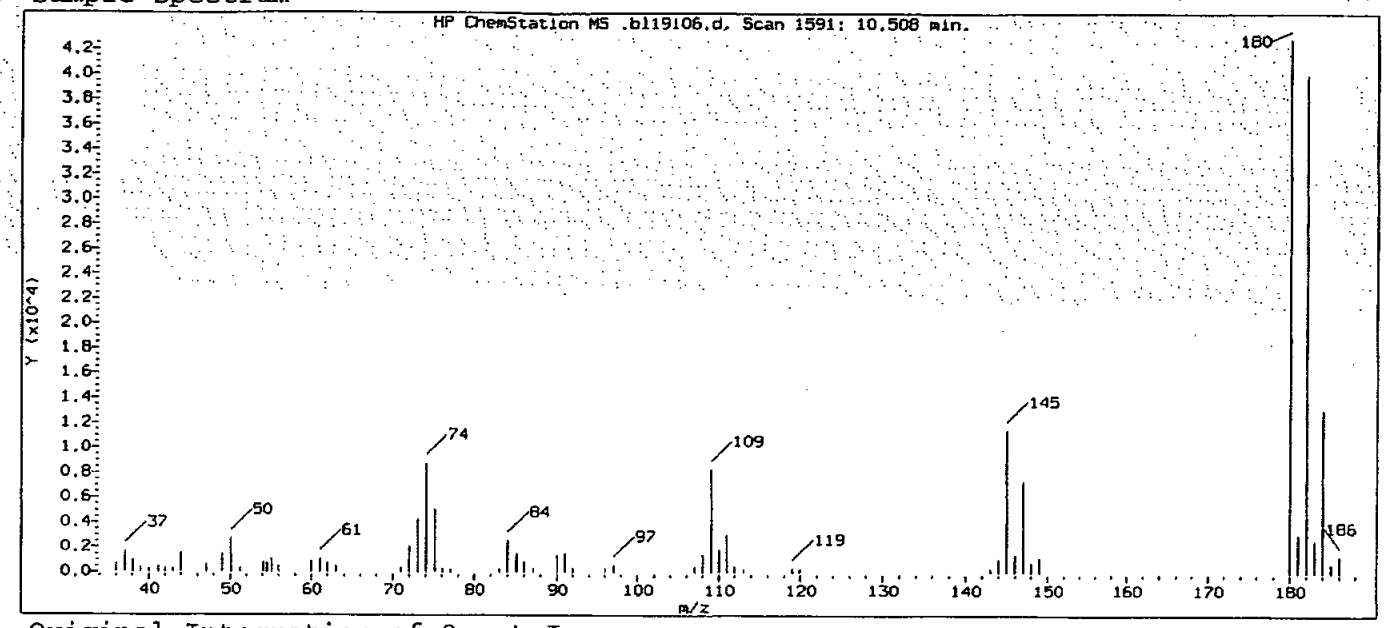
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59. Target 3.5 esignature user ID: ads01731

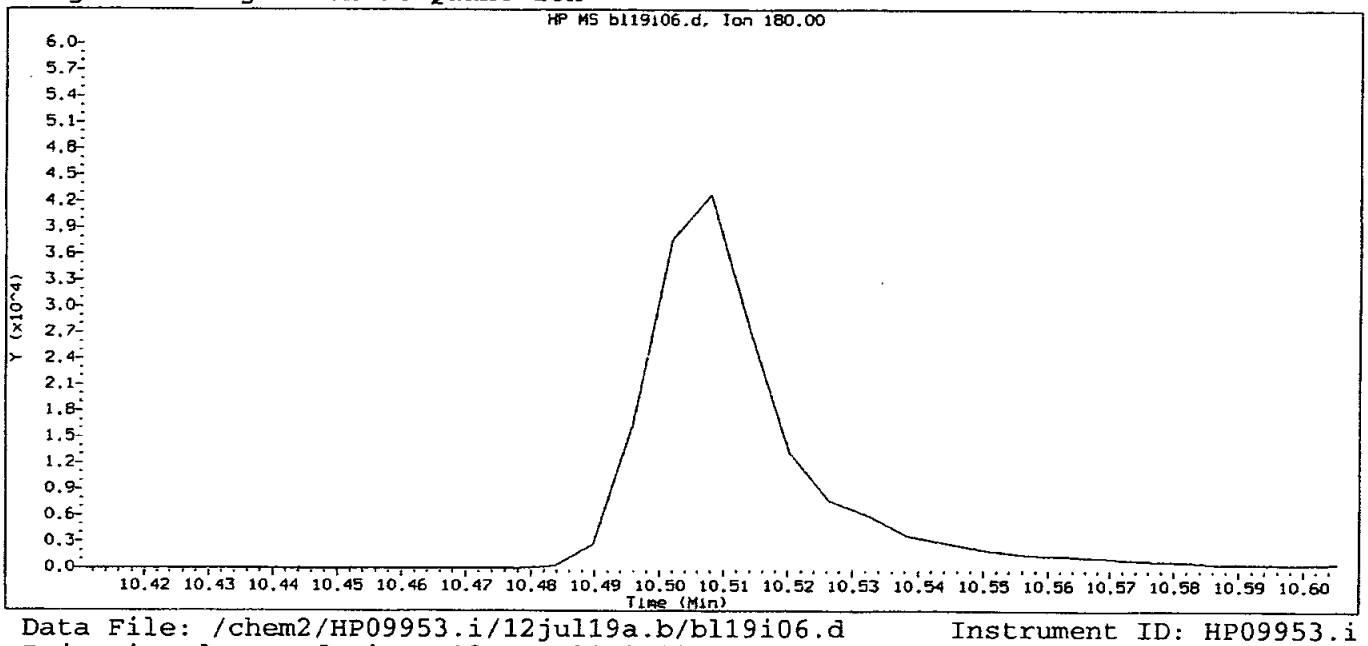
GC/MS audit/management approval: _____

ASX73 9216

Sample Spectrum



Original Integration of Quant Ion



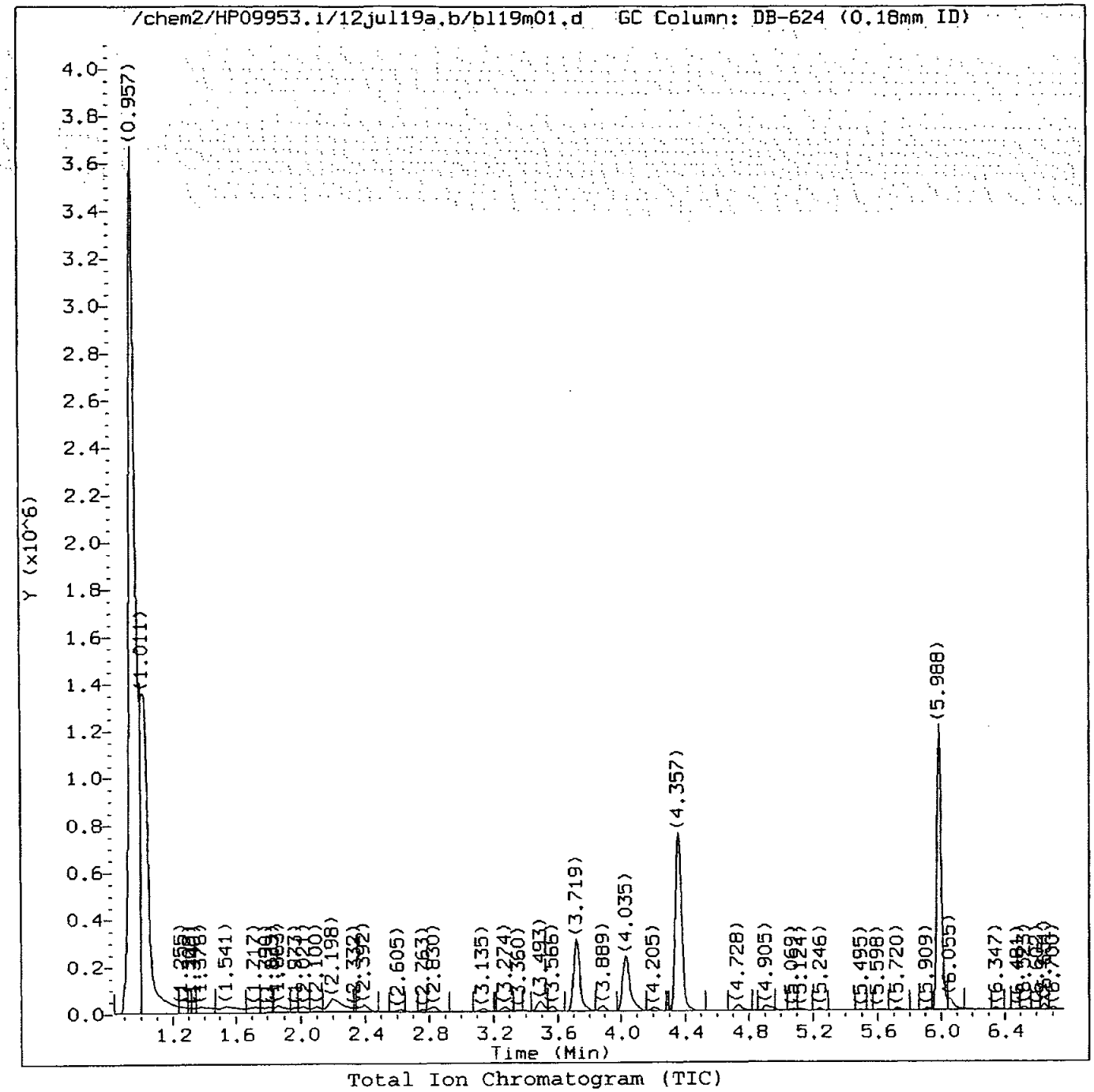
Data File: /chem2/HP09953.i/12jul19a.b/bl19i06.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:14 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260SI
Calibration date and time: 19-JUL-2012 12:30
Date, time and analyst ID of latest file update: 19-Jul-2012 12:30 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Expected RT (minutes) : 10.508
Quant Ion : 180.00

Digitally signed by Angela D. Sneeringer on 07/19/2012 at 12:59.
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d
Injection date and time: 19-JUL-2012 12:37

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 26-JUL-2012 15:34

Sublist used: 8260S-E

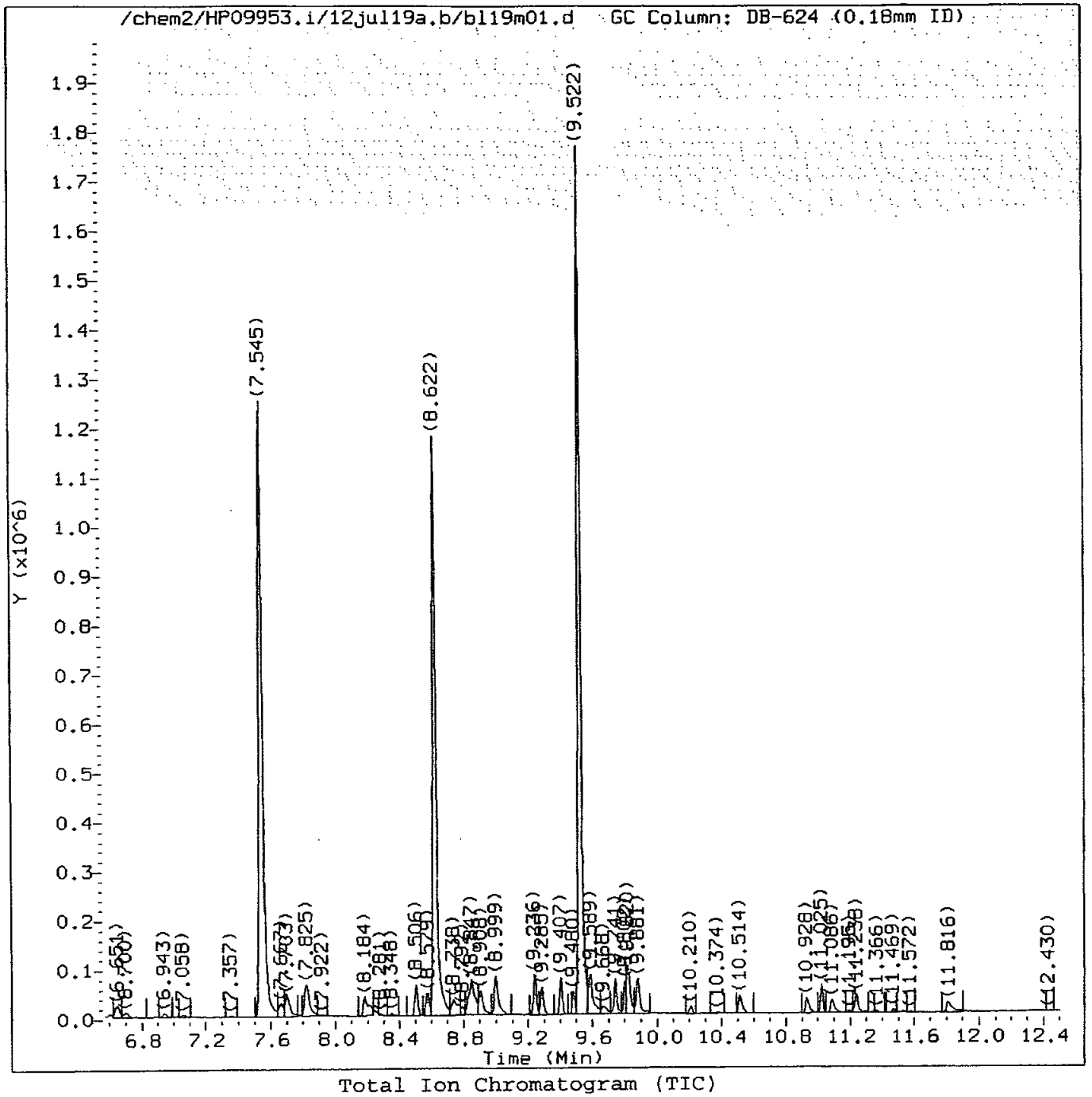
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001

Lab Sample ID: MDL001

Digitally signed by Lauren C. Temple
on 07/26/2012 at 15:36.
Target 3.5 esignature user ID: lct01518

ASX73 8218



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001 Lab Sample ID: MDL001

Digitally signed by Lauren C. Temple
on 07/26/2012 at 15:36.
Target 3.5 esignature user ID: lct01518

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.103	85	15995	1.618
3) Chloromethane	(1)	1.133	50	12468	1.254
4) Vinyl Chloride	(1)	1.212	62	10647	1.225
6) Bromomethane	(1)	1.376	94	7405	1.283
7) Chloroethane	(1)	1.431	64	6227	1.348
8) Dichlorofluoromethane	(1)	1.541	67	17246	1.477
9) Trichlorofluoromethane	(1)	1.565	101	9684M	0.983
12) Freon 123a	(1)	1.717	67	9040	1.253
13) Acrolein	(4)	1.802	56	13010	14.127
14) 1,1-Dichloroethene	(1)	1.863	96	6710	1.401
18) Freon 113	(1)	1.887	101	4328	0.813
17) Acetone	(1)	1.900	43	4670	3.336
20) Methyl Iodide	(1)	1.966	142	9888	1.006
21) 2-Propanol	(4)	1.997	45	11234	31.369
23) Carbon Disulfide	(1)	2.015	76	18709	1.220
25) Allyl Chloride	(1)	2.094	41	14745	1.569
26) Methyl Acetate	(1)	2.125	43	6308	1.773
27) Methylene Chloride	(1)	2.192	84	18788	3.034
28) *t-Butyl Alcohol-d10	(4)	2.222	65	85769	250.000
29) t-Butyl Alcohol	(4)	2.283	59	11337M	19.468
30) Acrylonitrile	(4)	2.386	53	3727	1.850
31) trans-1,2-Dichloroethene	(1)	2.398	96	6878	1.160
32) Methyl Tertiary Butyl Ether	(1)	2.411	73	16453	1.025
35) n-Hexane	(1)	2.617	57	9577	1.082
37) 1,1-Dichloroethane	(1)	2.751	63	11425	1.035
40) di-Isopropyl Ether	(1)	2.818	45	20512	0.971
41) 2-Chloro-1,3-Butadiene	(1)	2.830	53	11087	1.166
43) Ethyl t-Butyl Ether	(1)	3.128	59	18133	0.958
45) 2,2-Dichloropropane	(1)	3.268	77	10393	1.160
44) cis-1,2-Dichloroethene	(1)	3.274	96	6810	1.008
46) 2-Butanone	(1)	3.305	43	5704	2.313
48) Propionitrile	(4)	3.366	54	14958	20.880
50) Bromochloromethane	(1)	3.481	128	2947	0.910
49) Methacrylonitrile	(4)	3.487	67	20657	9.878
51) Tetrahydrofuran	(4)	3.530	71	1502	2.314
52) Chloroform	(1)	3.573	83	16437	1.458
53) $Dibromofluoromethane	(1)	3.719	113	245562	51.383
55) 1,1,1-Trichloroethane	(1)	3.737	97	16139	1.262

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/26/2012 at 15:36.
Target 3.5 esignature user ID: lct01518

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
57) Cyclohexane	(1)	3.785	56	11150	0.996
59) 1,1-Dichloropropene	(1)	3.889	75	9457	1.122
60) Carbon Tetrachloride	(1)	3.889	117	8525	1.032
62)$1,2-Dichloroethane-d4	(1)	4.035	102	49624	49.244
64) Isobutyl Alcohol	(4)	4.059	41	10161	54.883
65) Benzene	(1)	4.084	78	27493	1.086
66) 1,2-Dichloroethane	(1)	4.114	62	7602	0.971
71) t-Amyl Methyl Ether	(1)	4.211	73	16328	0.976
73)*Fluorobenzene	(1)	4.357	96	1006904	50.000
72) n-Heptane	(1)	4.357	43	10859	1.050
69) 1,2-Dichloroethene (total)	(1)		96	13688	2.168
75) Trichloroethene	(1)	4.728	95	7029	1.050
74) n-Butanol	(4)	4.747	56	13191M	88.836
77) Methylcyclohexane	(1)	4.905	83	10207	0.894
78) 1,2-Dichloropropane	(1)	4.947	63	5968	0.911
79) Dibromomethane	(1)	5.069	93	3693	0.993
81) 1,4-Dioxane	(4)	5.112	88	2410	42.078
80) Methyl Methacrylate	(1)	5.124	69	3899	1.028
83) Bromodichloromethane	(1)	5.246	83	6780	0.877
84) 2-Nitropropane	(4)	5.495	41	2395	1.917
86) 2-Chloroethyl Vinyl Ether	(1)	5.604	63	2663	0.850
87) cis-1,3-Dichloropropene	(1)	5.720	75	7496	0.815
89) 4-Methyl-2-Pentanone	(1)	5.909	43	8088	1.519
90)$Toluene-d8	(2)	5.988	98	952738	50.269
92) Toluene	(2)	6.061	92	18303	1.127
93) trans-1,3-Dichloropropene	(2)	6.347	75	6293	0.791
95) Ethyl Methacrylate	(2)	6.481	69	6700M	0.958
96) 1,1,2-Trichloroethane	(2)	6.523	97	4397	0.895
97) Tetrachloroethene	(2)	6.651	166	8111	1.061
98) 1,3-Dichloropropane	(2)	6.700	76	7439	0.899
100) 2-Hexanone	(2)	6.894	58	1554	0.863
103) Dibromochloromethane	(2)	6.943	129	4296	0.769
105) 1,2-Dibromoethane	(2)	7.058	107	4447	0.880
106)*Chlorobenzene-d5	(2)	7.545	117	703131	50.000
107) Chlorobenzene	(2)	7.576	112	18221	1.028
108) 1,1,1,2-Tetrachloroethane	(2)	7.673	131	5415	0.855
109) Ethylbenzene	(2)	7.703	91	32718	1.069
110) m+p-Xylene	(2)	7.825	106	25441	2.092

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on 07/26/2012 at 15:36.
Target 3.5 esignature user ID: lct01518

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
112) Xylene (Total)	(2)		106	37342	3.065
113) o-Xylene	(2)	8.184	106	11901	0.973
115) Styrene	(2)	8.214	104	18375M	0.930
116) Bromoform	(2)	8.348	173	2977	0.779
117) Isopropylbenzene	(2)	8.506	105	34051	1.067
118) Cyclohexanone	(4)	8.573	55	25321	72.904
120)$4-Bromofluorobenzene	(2)	8.622	95	351445	50.901
122) Bromobenzene	(3)	8.744	156	7920	0.923
123) 1,1,2,2-Tetrachloroethane	(3)	8.768	83	6222	0.909
124) 1,2,3-Trichloropropane	(3)	8.798	110	1560	0.814
125) trans-1,4-Dichloro-2-Butene	(3)	8.829	53	14416	7.996
126) n-Propylbenzene	(3)	8.847	91	39211	1.042
127) 2-Chlorotoluene	(3)	8.908	126	7934	0.980
128) 1,3,5-Trimethylbenzene	(3)	8.993	105	28025	1.006
129) 4-Chlorotoluene	(3)	8.999	126	8517	1.040
131) tert-Butylbenzene	(3)	9.236	134	6906	1.070
132) Pentachloroethane	(3)	9.249	167	4034	0.798
133) 1,2,4-Trimethylbenzene	(3)	9.285	105	28594	1.002
134) sec-Butylbenzene	(3)	9.407	105	39153	1.097
135) 1,3-Dichlorobenzene	(3)	9.480	146	15249	0.936
136) p-Isopropyltoluene	(3)	9.522	119	33177	1.056
137)*1,4-Dichlorobenzene-d4	(3)	9.528	152	417753	50.000
138) 1,4-Dichlorobenzene	(3)	9.541	146	19977	1.164
139) 1,2,3-Trimethylbenzene	(3)	9.589	105	29129	1.017
140) Benzyl Chloride	(3)	9.668	91	8524	5.184
141) 1,3-Diethylbenzene	(3)	9.741	119	17714	0.959
142) 1,4-Diethylbenzene	(3)	9.802	119	20552	1.069
144) 1,2-Dichlorobenzene	(3)	9.820	146	15577	1.004
143) n-Butylbenzene	(3)	9.820	92	16810	1.081
145) 1,2-Diethylbenzene	(3)	9.881	119	17824	1.110
147) 1,2-Dibromo-3-Chloropropane	(3)	10.368	75	907	0.735
149) 1,3,5-Trichlorobenzene	(3)	10.514	180	14976M	1.040
150) 1,2,4-Trichlorobenzene	(3)	10.928	180	13065	1.039
152) Hexachlorobutadiene	(3)	11.025	225	8444	1.171
153) Naphthalene	(3)	11.086	128	26452	1.031
154) 1,2,3-Trichlorobenzene	(3)	11.238	180	13059	1.104
155) 2-Methylnaphthalene	(3)	11.816	142	17993	1.165

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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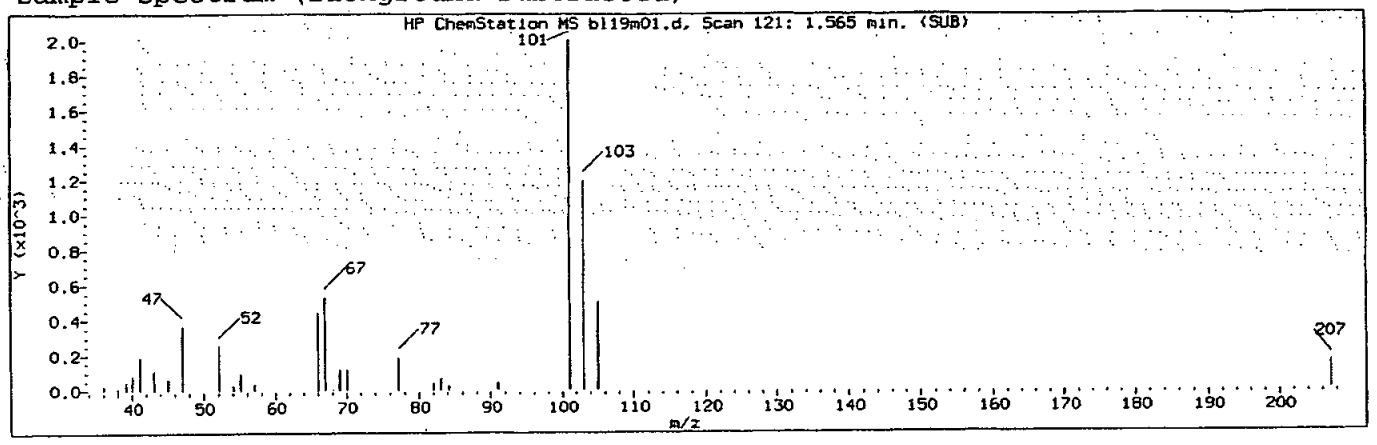
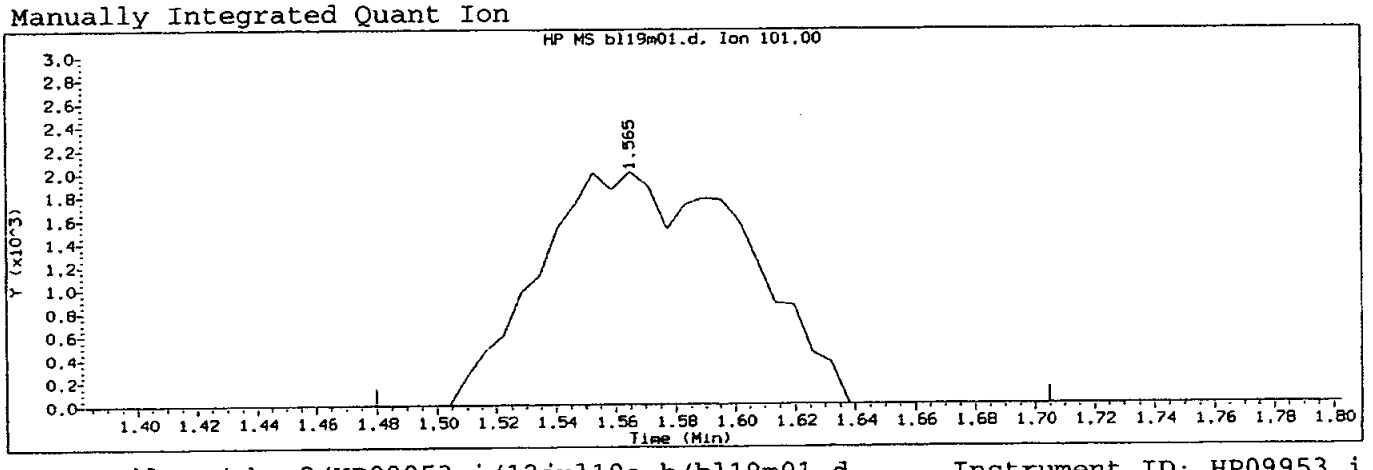
on 07/26/2012 at 15:36.
Target 3.5 esignature user ID: lct01518

ASX73 0222

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001 Lab Sample ID: MDL001

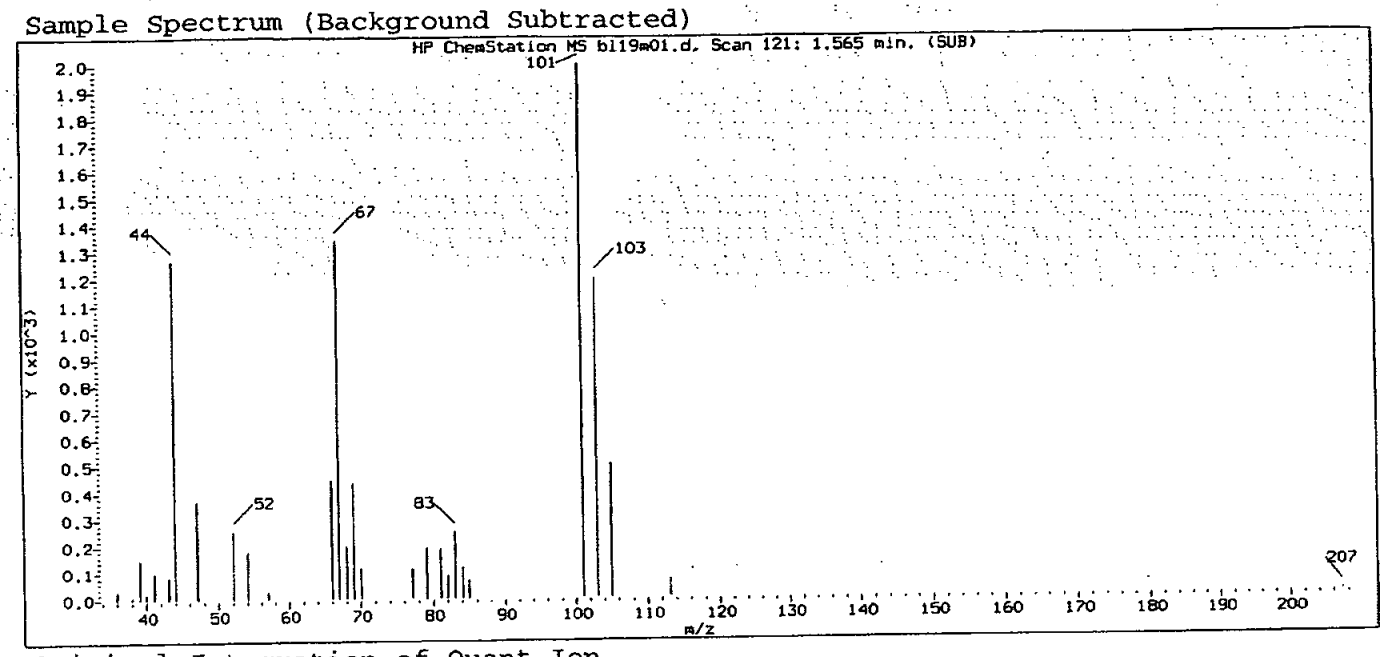
Compound Number : 9
Compound Name : Trichlorofluoromethane
Scan Number : 121
Retention Time (minutes): 1.565
Quant Ion : 101.00
Area (flag) : 9684M
On-Column Amount (ng) : 0.9833
Integration start scan : 106 Integration stop scan: 143
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

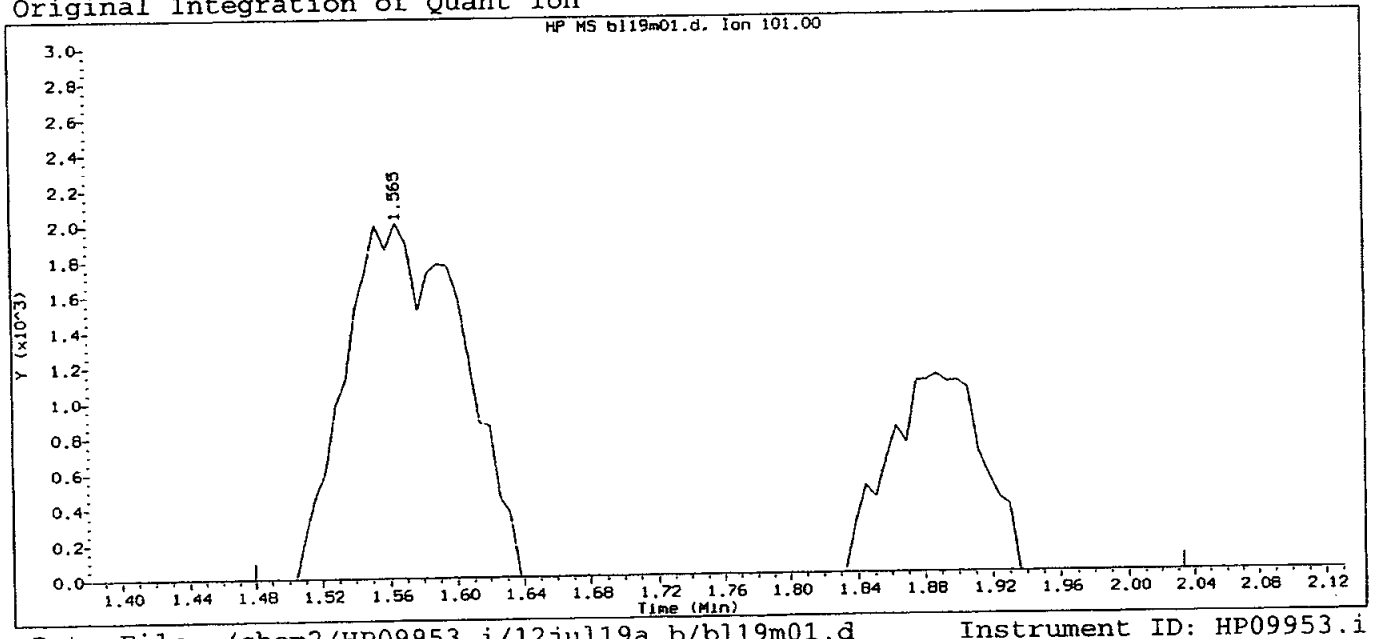
Analyst responsible for change: Digitally signed by Lauren C. Temple on 07/26/2012 at 15:36. Target 3.5 esignature user ID: lct01518

GC/MS audit/management approval: 7/26/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

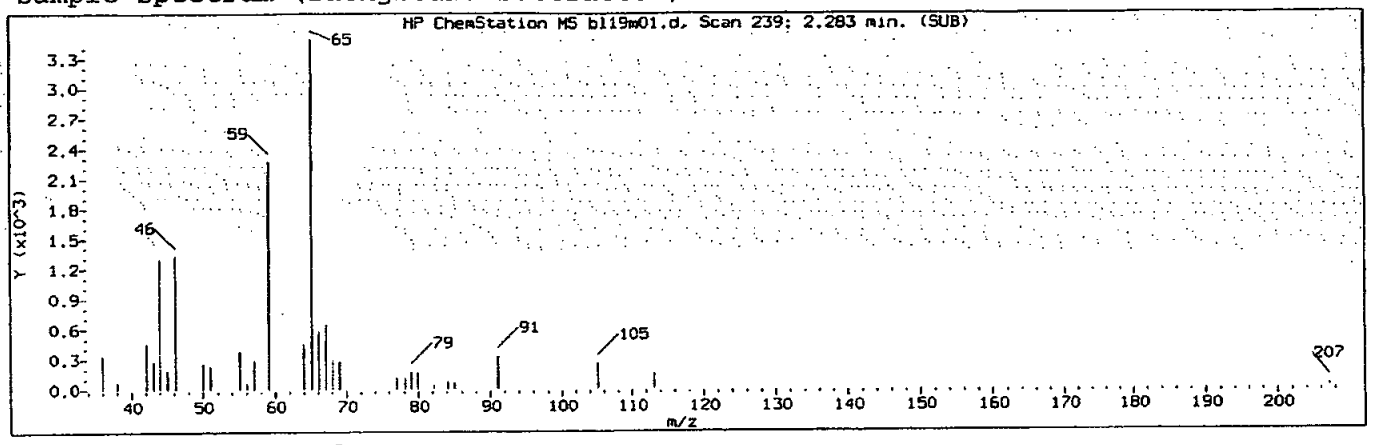
Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S
Calibration date and time: 19-JUL-2012 12:53
Date, time and analyst ID of latest file update: 19-Jul-2012 12:53 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

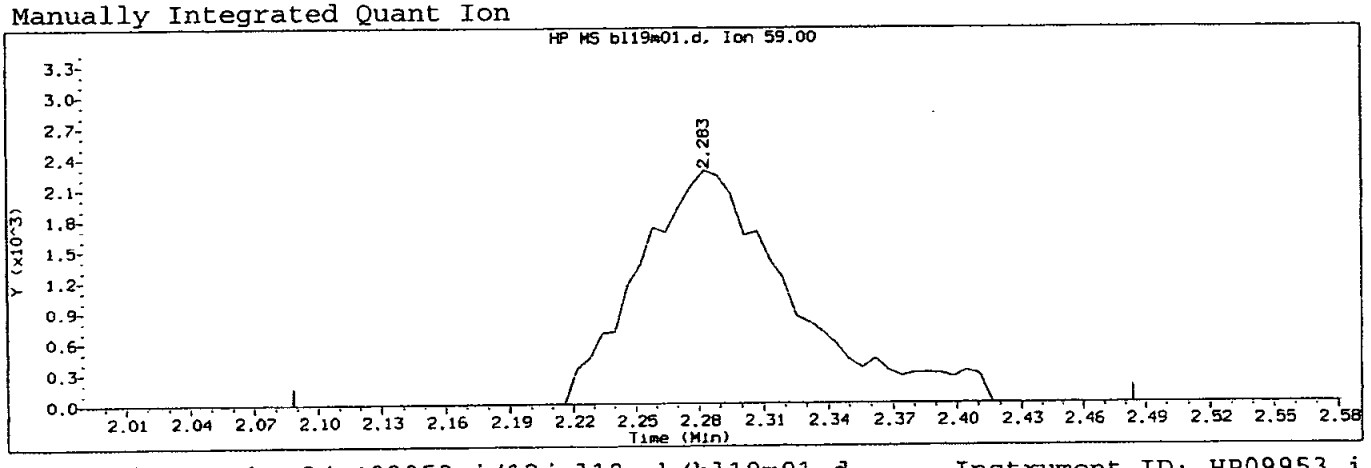
Compound Number	: 9		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 121		
Retention Time (minutes)	: 1.565		
Quant Ion	: 101.00		
Area	: 14012		
On-column Amount (ng)	: 1.4228		
Integration start scan	: 106	Integration stop scan:	197
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Lauren C. Temple on 07/26/2012 at 15:36.
Target 3.5 esignature user ID: lct01518

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001 Lab Sample ID: MDL001

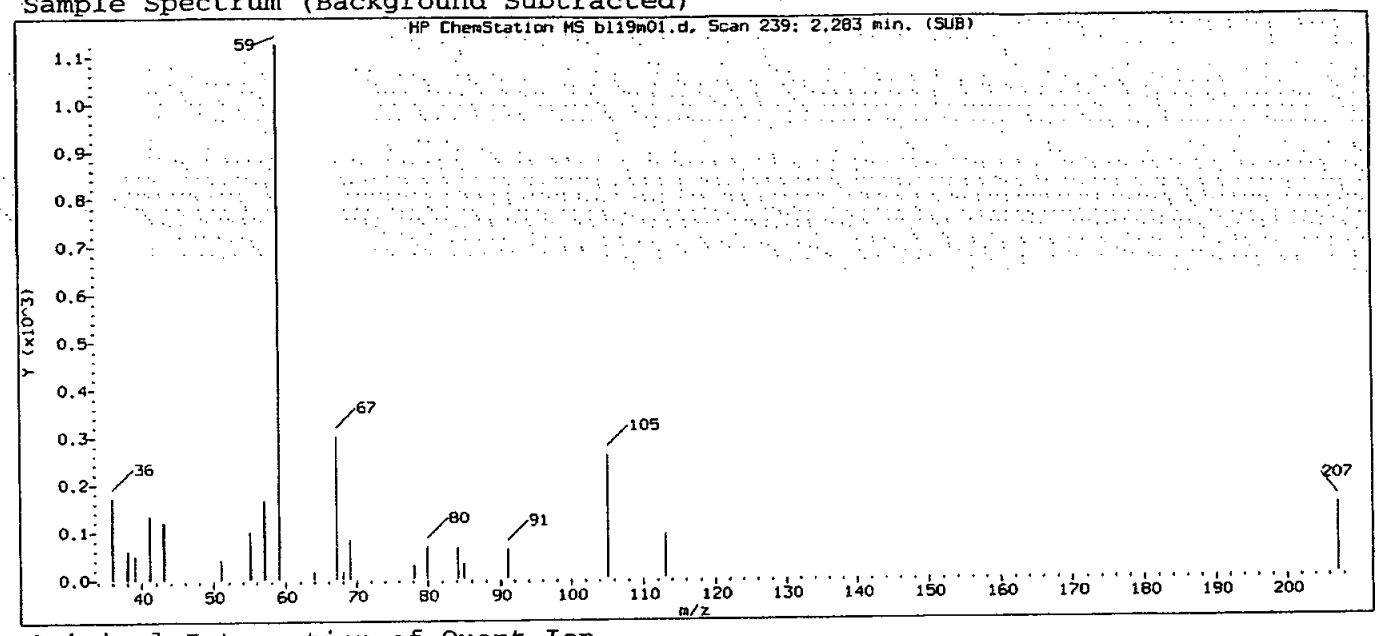
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 239		
Retention Time (minutes)	: 2.283		
Quant Ion	: 59.00		
Area (flag)	: 11337M		
On-Column Amount (ng)	: 19.4683		
Integration start scan	: 206	Integration stop scan:	271
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

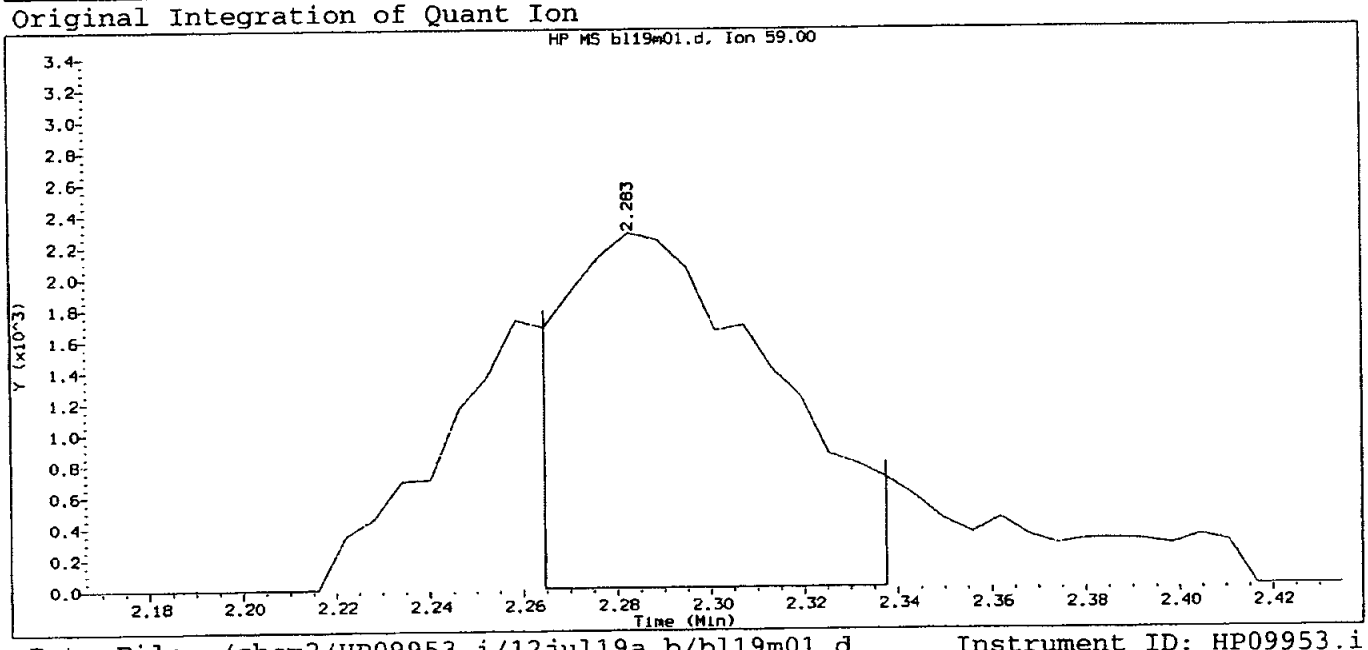
Analyst responsible for change: Digitally signed by Lauren C. Temple on 07/26/2012 at 15:36. Target 3.5 esignature user ID: lct01518

GC/MS audit/management approval: 7/26/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

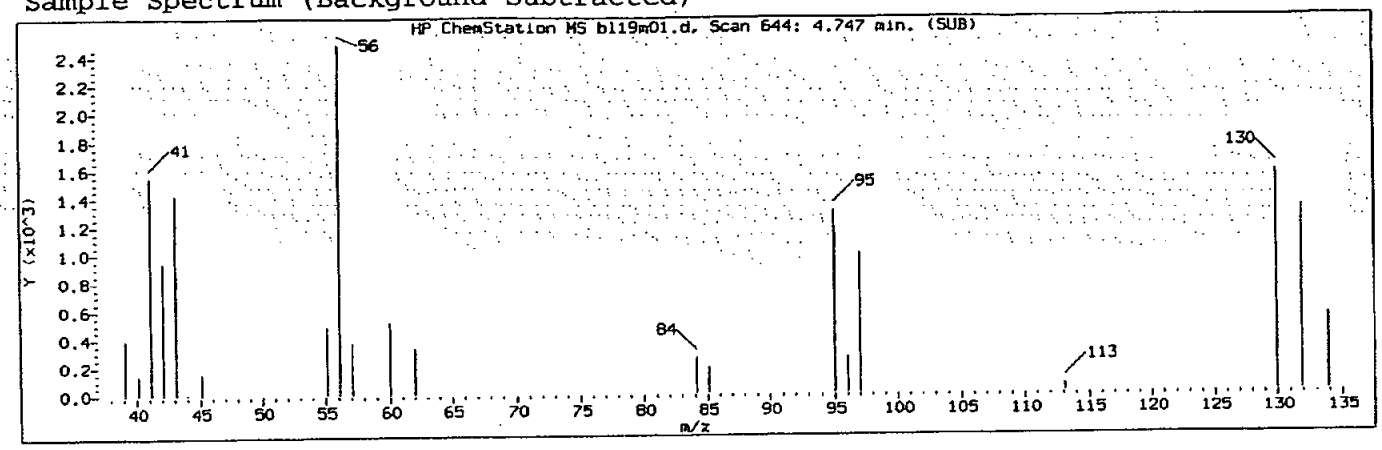
Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S
Calibration date and time: 19-JUL-2012 12:53
Date, time and analyst ID of latest file update: 19-Jul-2012 12:53 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

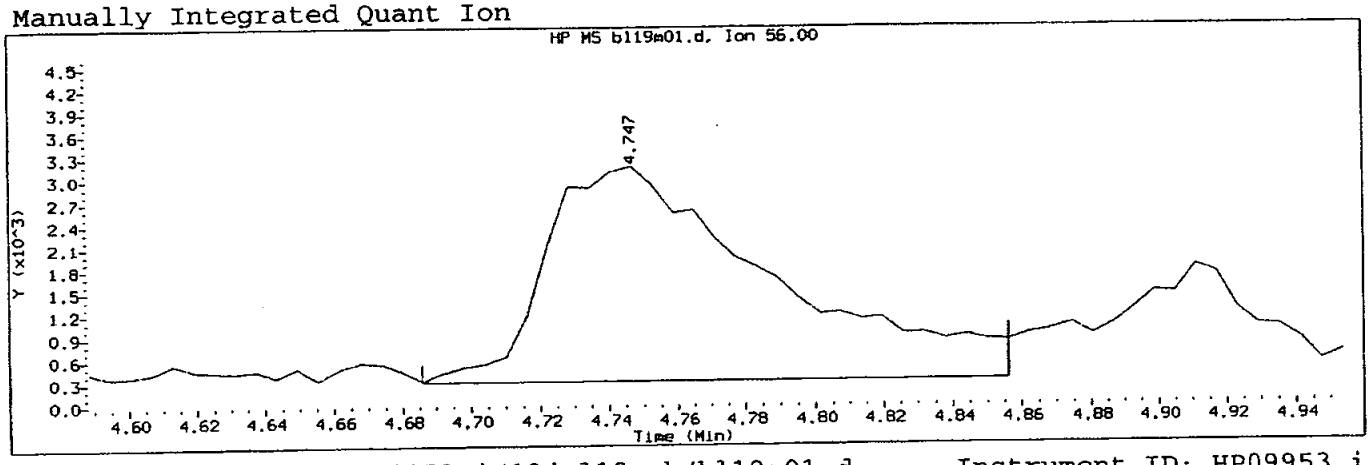
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 239		
Retention Time (minutes)	: 2.283		
Quant Ion	: 59.00		
Area	: 7063		
On-column Amount (ng)	: 12.1297		
Integration start scan	: 235	Integration stop scan:	247
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Lauren C. Temple on 07/26/2012 at 15:36.
Target 3.5 esignature user ID: lct01518

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001 Lab Sample ID: MDL001

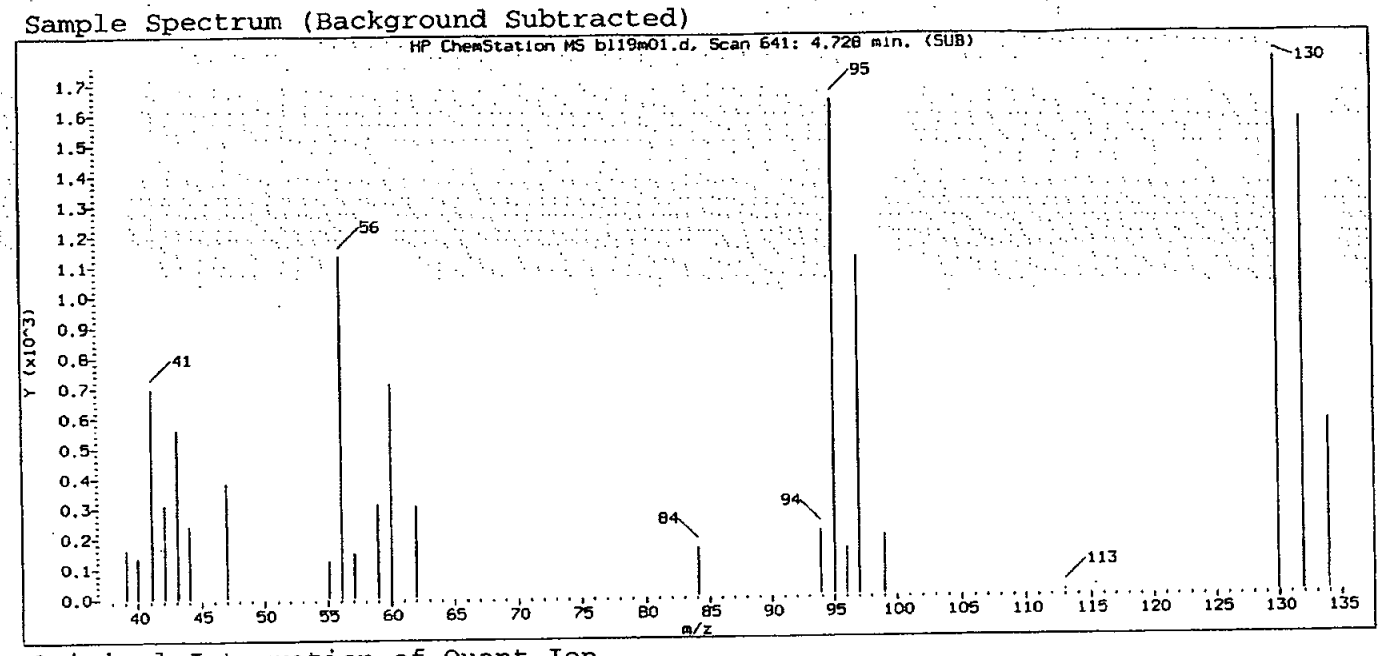
Compound Number	: 74		
Compound Name	: n-Butanol		
Scan Number	: 644		
Retention Time (minutes)	: 4.747		
Quant Ion	: 56.00		
Area (flag)	: 13191M		
On-Column Amount (ng)	: 88.8358		
Integration start scan	: 633	Integration stop scan:	661
Y at integration start	: 289	Y at integration end:	289

Reason for manual integration: improper integration

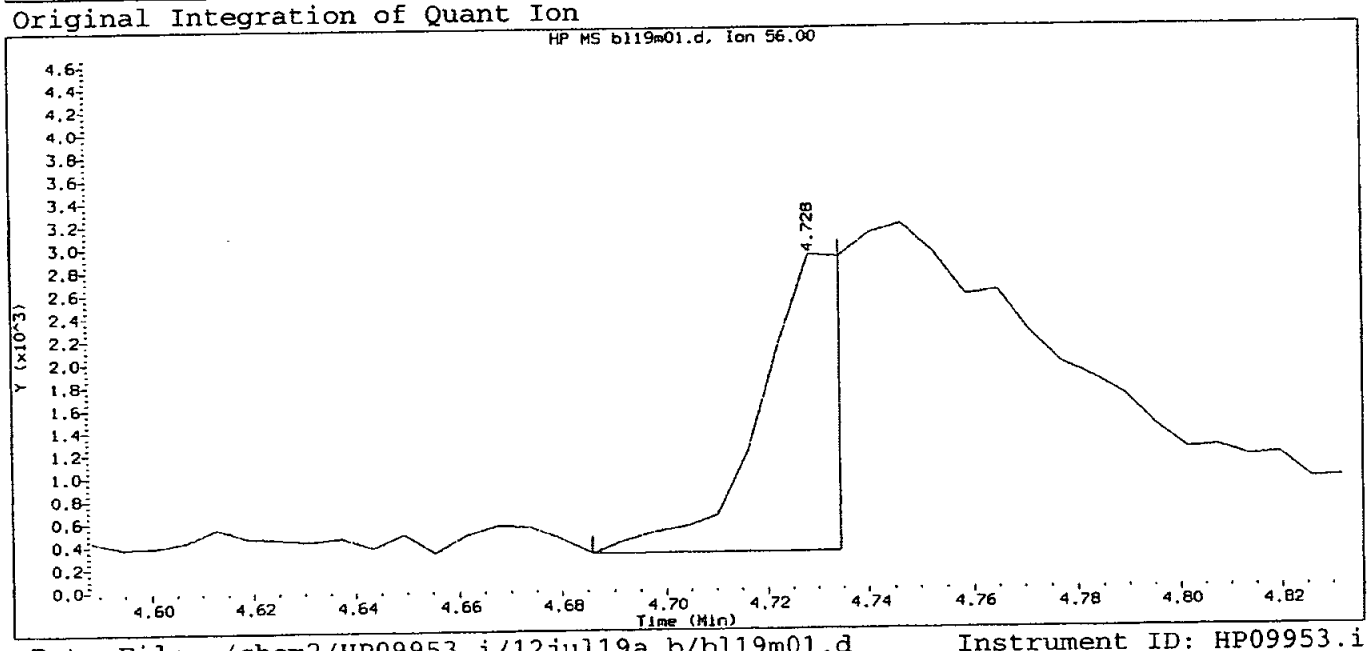
Analyst responsible for change: Digitally signed by Lauren C. Temple on 07/26/2012 at 15:36. Target 3.5 esignature user ID: lct01518

GC/MS audit/management approval: 7/26/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S
Calibration date and time: 19-JUL-2012 12:53
Date, time and analyst ID of latest file update: 19-Jul-2012 12:53 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 74		
Compound Name	: n-Butanol		
Scan Number	: 641		
Retention Time (minutes)	: 4.728		
Quant Ion	: 56.00		
Area	: 2712		
On-column Amount (ng)	: 18.2680		
Integration start scan	: 633	Integration stop scan:	641
Y at integration start	: 302	Y at integration end:	302

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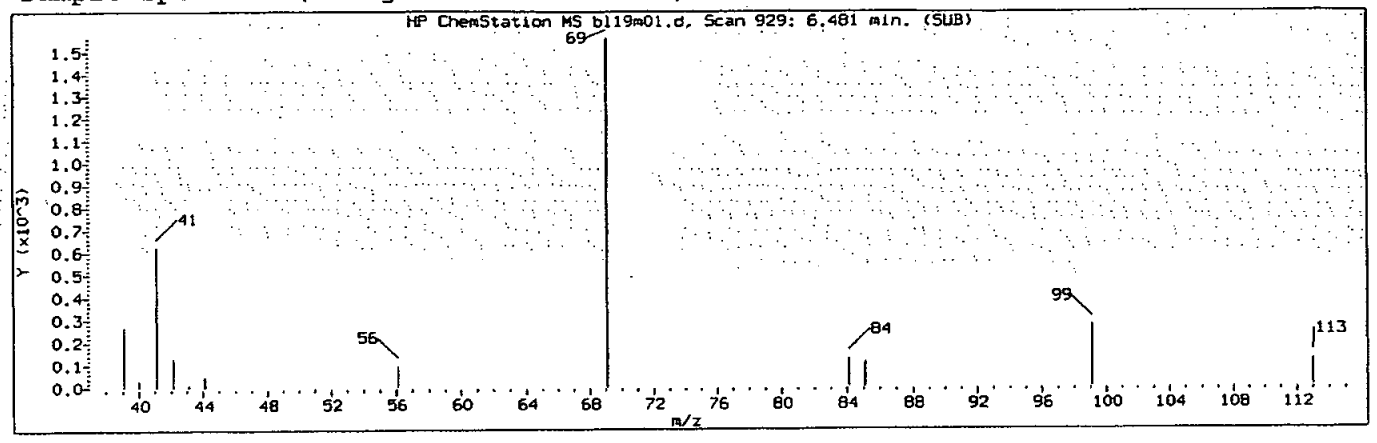
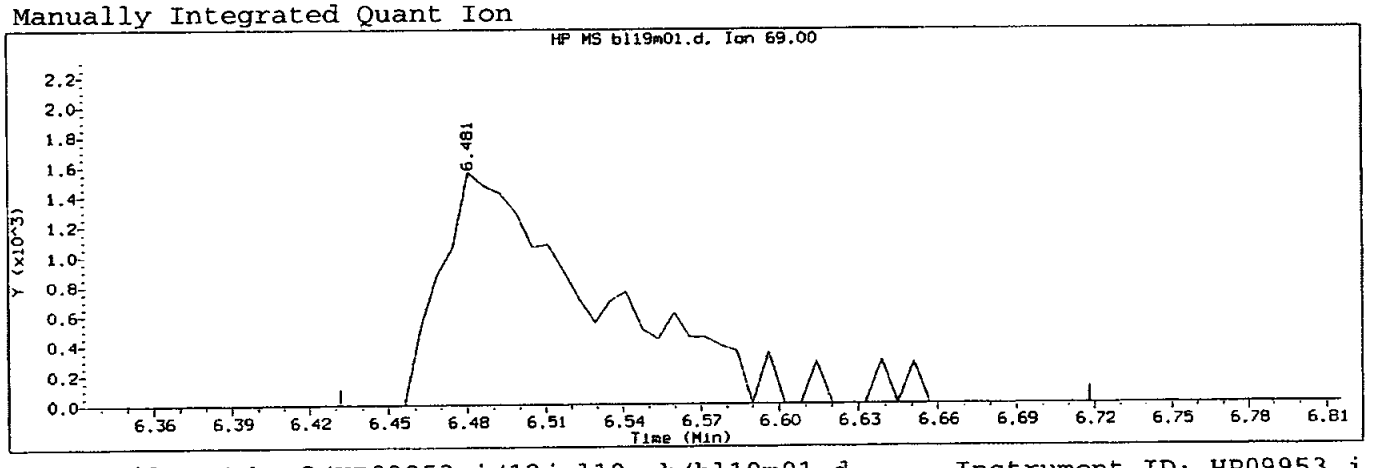
Target 3.5 esignature user ID: lct01518

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001 Lab Sample ID: MDL001

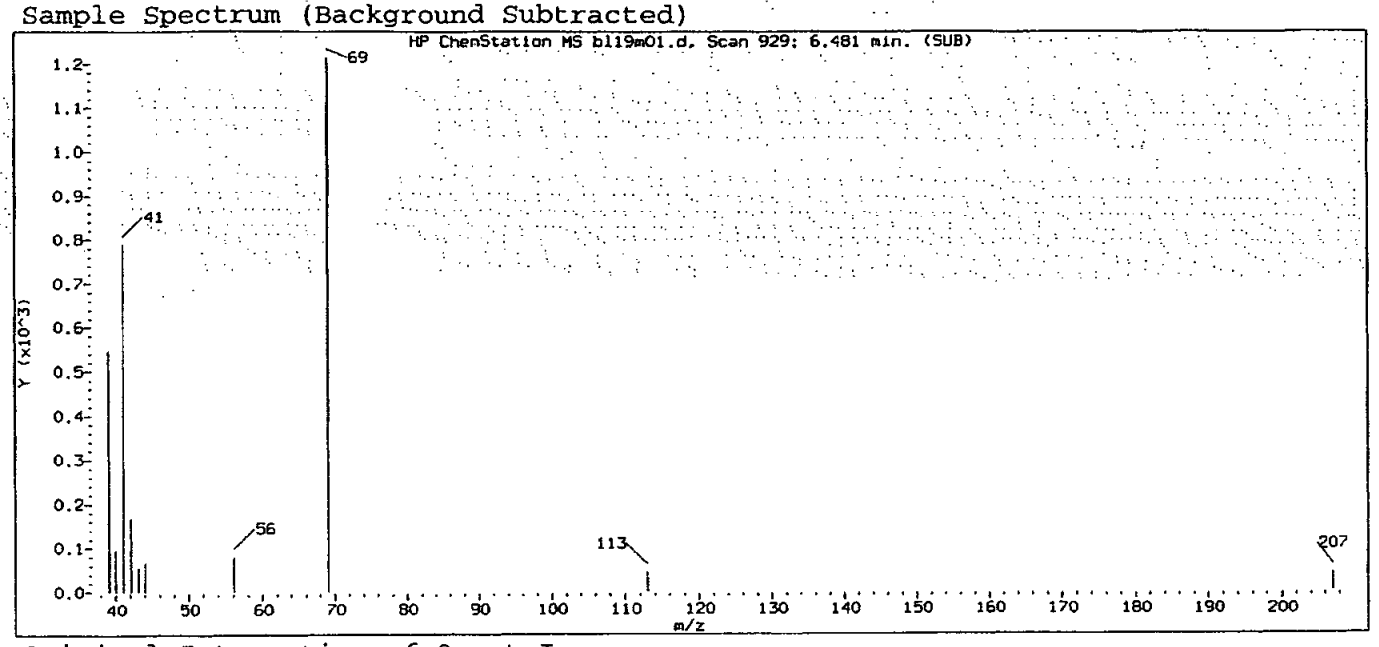
Compound Number	: 95		
Compound Name	: Ethyl Methacrylate		
Scan Number	: 929		
Retention Time (minutes)	: 6.481		
Quant Ion	: 69.00		
Area (flag)	: 6700M		
On-Column Amount (ng)	: 0.9580		
Integration start scan	: 920	Integration stop scan:	967
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

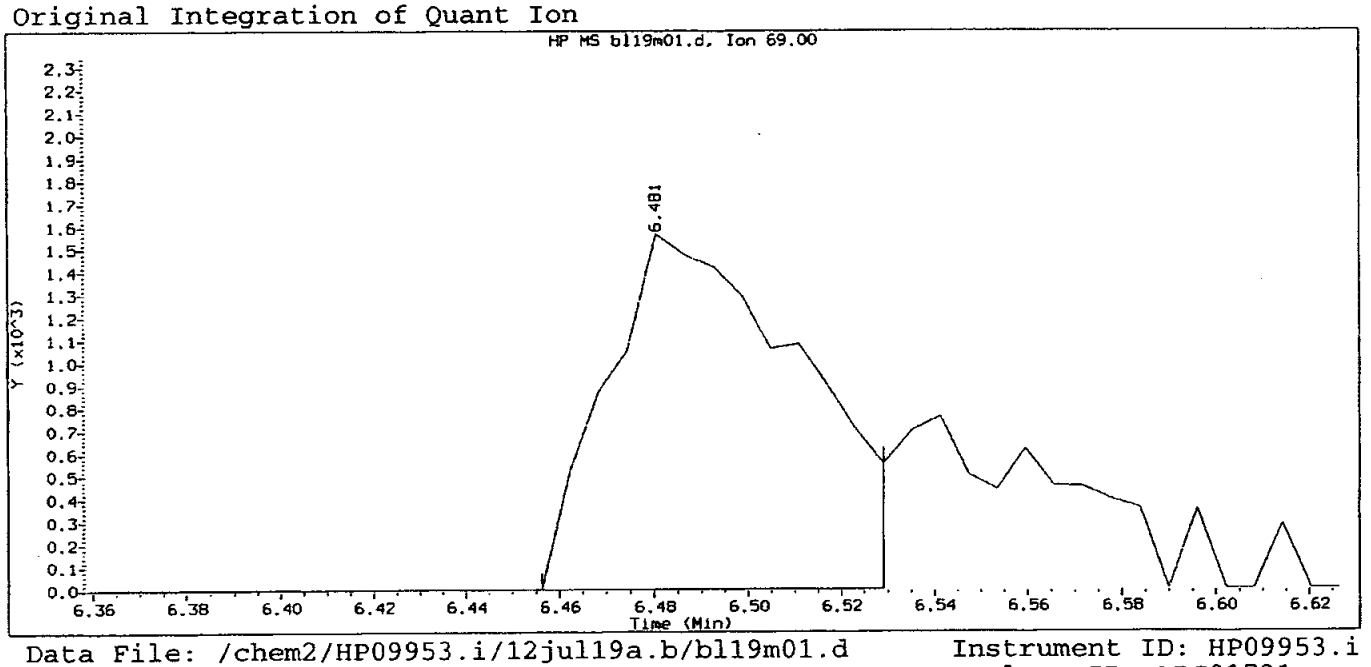
Analyst responsible for change: Digitally signed by Lauren C. Temple on 07/26/2012 at 15:36. Target 3.5 esignature user ID: lct01518

GC/MS audit/management approval: 7/26/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S
Calibration date and time: 19-JUL-2012 12:53
Date, time and analyst ID of latest file update: 19-Jul-2012 12:53 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 95		
Compound Name	: Ethyl Methacrylate		
Scan Number	: 929		
Retention Time (minutes)	: 6.481		
Quant Ion	: 69.00		
Area	: 4454		
On-column Amount (ng)	: 0.6369		
Integration start scan	: 924	Integration stop scan:	936
Y at integration start	: 0	Y at integration end:	0

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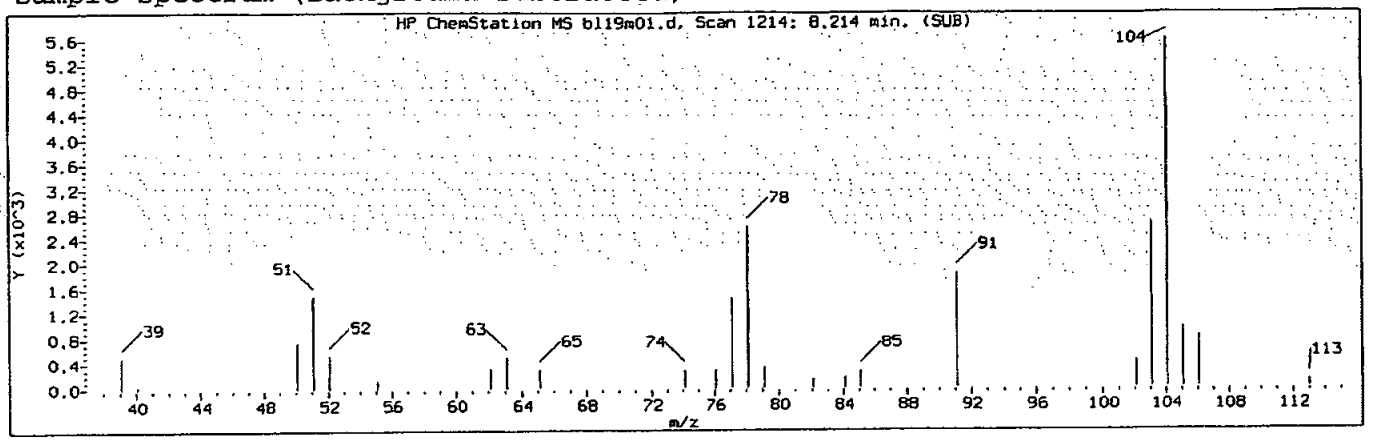
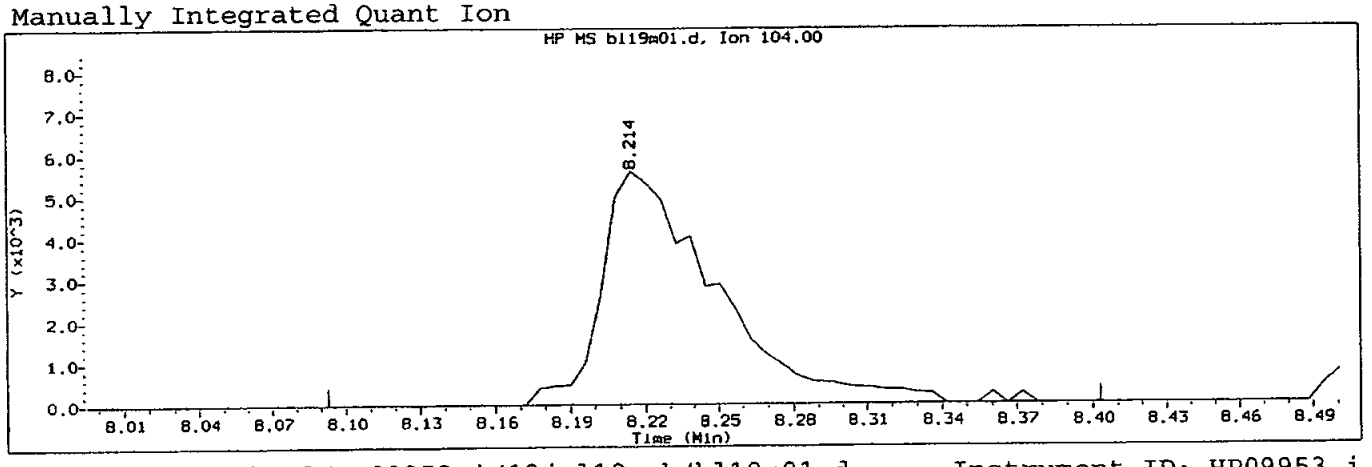
Target 3.5 esignature user ID: lct01518

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 115		
Compound Name	: Styrene		
Scan Number	: 1214		
Retention Time (minutes)	: 8.214		
Quant Ion	: 104.00		
Area (flag)	: 18375M		
On-Column Amount (ng)	: 0.9297		
Integration start scan	: 1193	Integration stop scan:	1244
Y at integration start	: 0	Y at integration end:	0

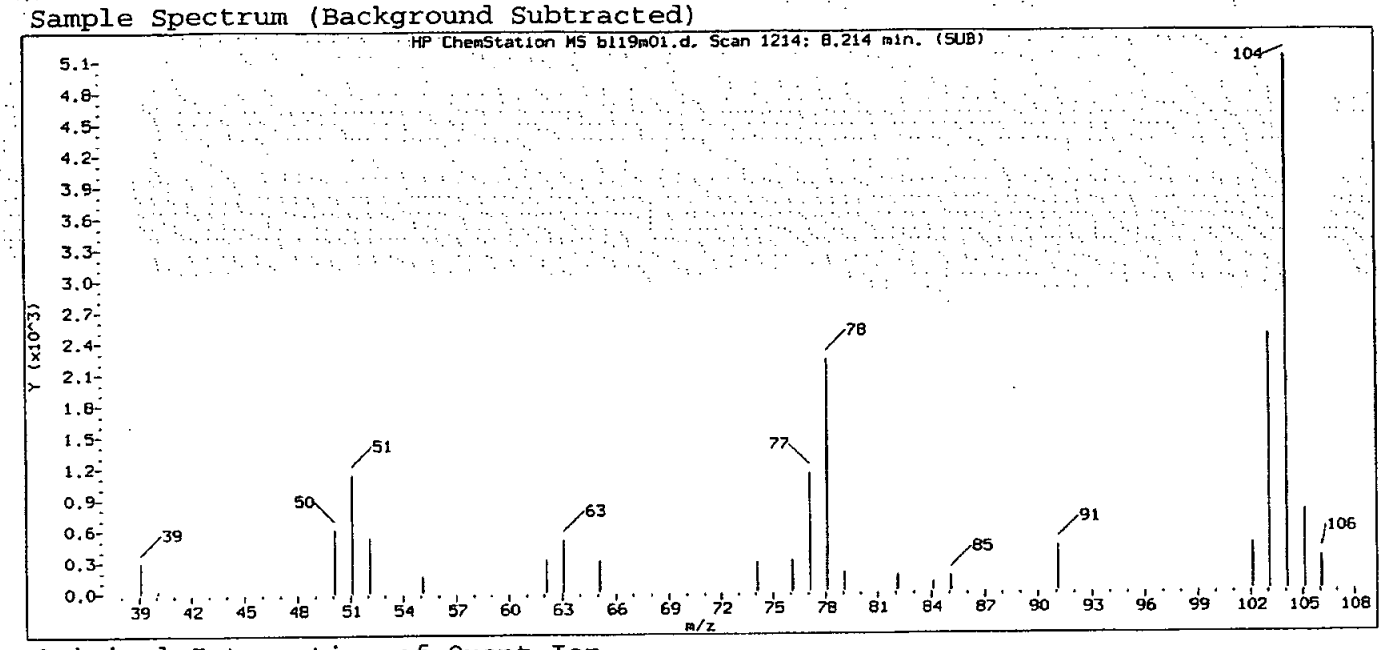
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Lauren C. Temple on 07/26/2012 at 15:36. Target 3.5 esignature user ID: lct01518

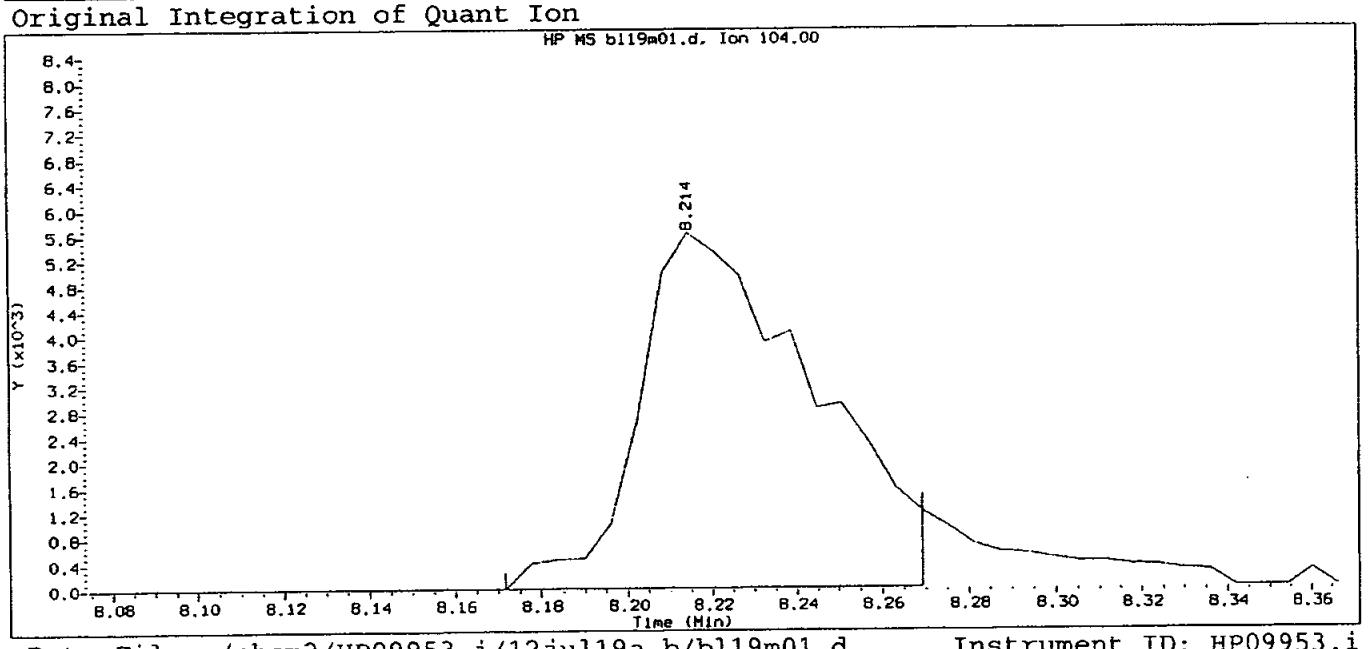
GC/MS audit/management approval: 7/26/12

ASX73 0231

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S
Calibration date and time: 19-JUL-2012 12:53
Date, time and analyst ID of latest file update: 19-Jul-2012 12:53 Automation

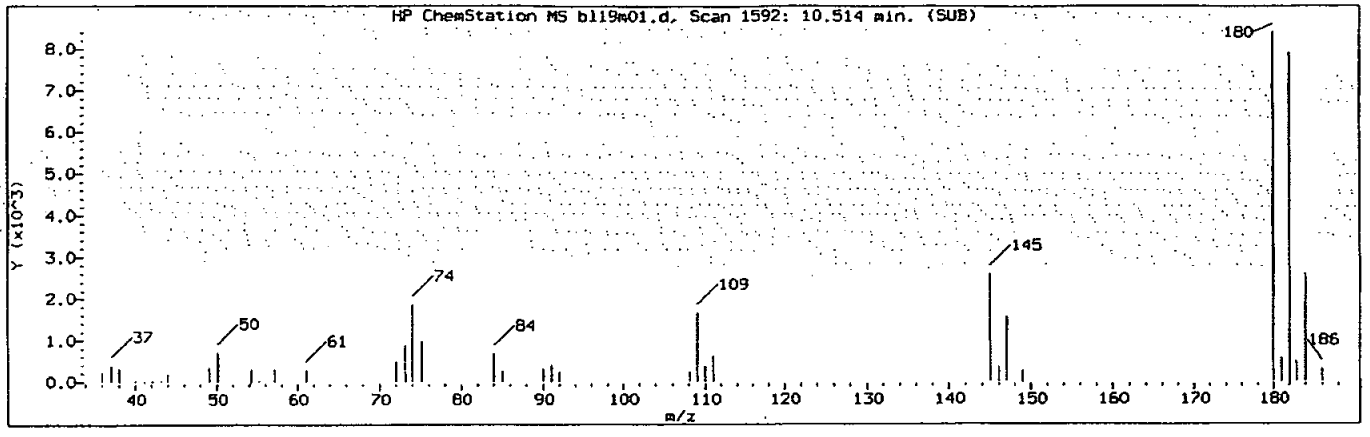
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 115		
Compound Name	: Styrene		
Scan Number	: 1214		
Retention Time (minutes)	: 8.214		
Quant Ion	: 104.00		
Area	: 16070		
On-column Amount (ng)	: 0.8131		
Integration start scan	: 1206	Integration stop scan:	1222
Y at integration start	: 0	Y at integration end:	0

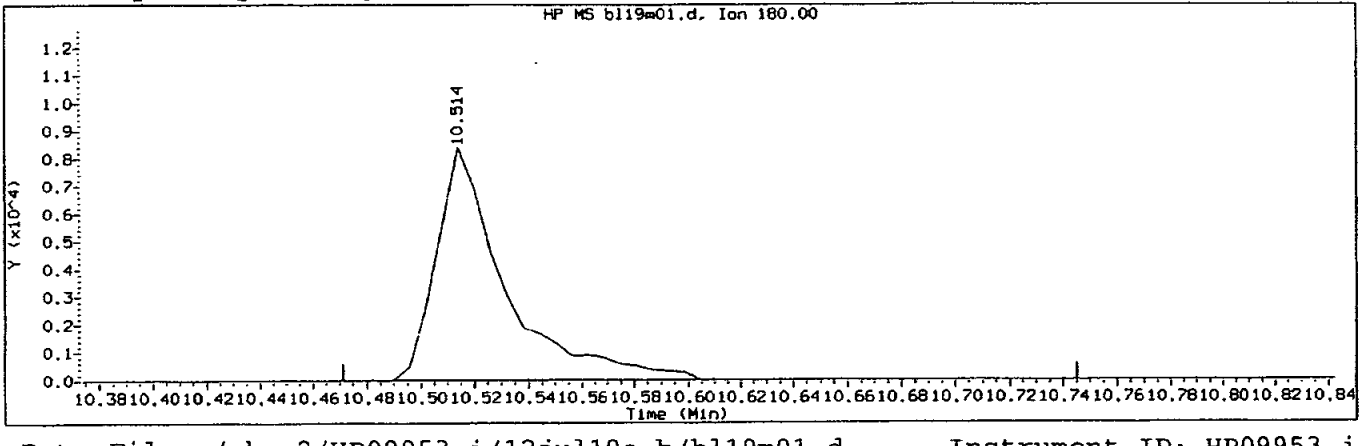
Digitally signed by Lauren C. Temple on 07/26/2012 at 15:36.
Target 3.5 esignature user ID: lct01518

ASX73 9232

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Scan Number : 1592
Retention Time (minutes): 10.514
Quant Ion : 180.00
Area (flag) : 14976M
On-Column Amount (ng) : 1.0403
Integration start scan : 1584 Integration stop scan: 1629
Y at integration start : 0 Y at integration end: 0

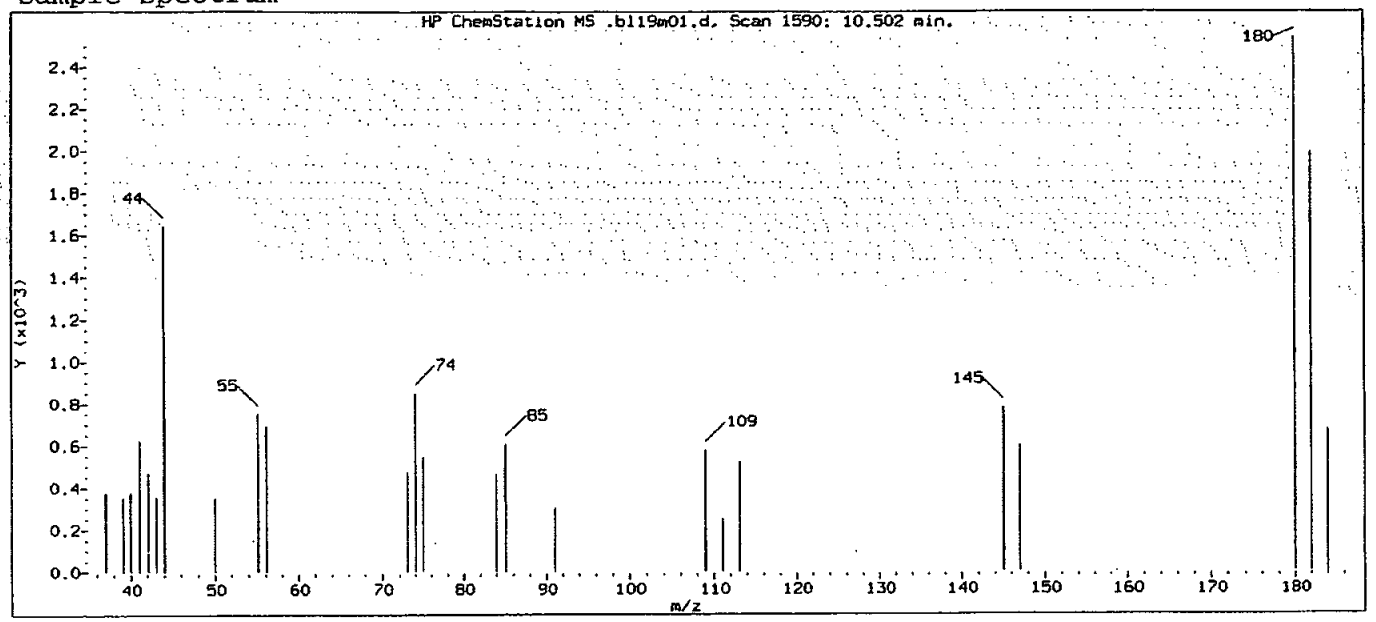
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Lauren C. Temple on 07/26/2012 at 15:36. Target 3.5 esignature user ID: lct01518

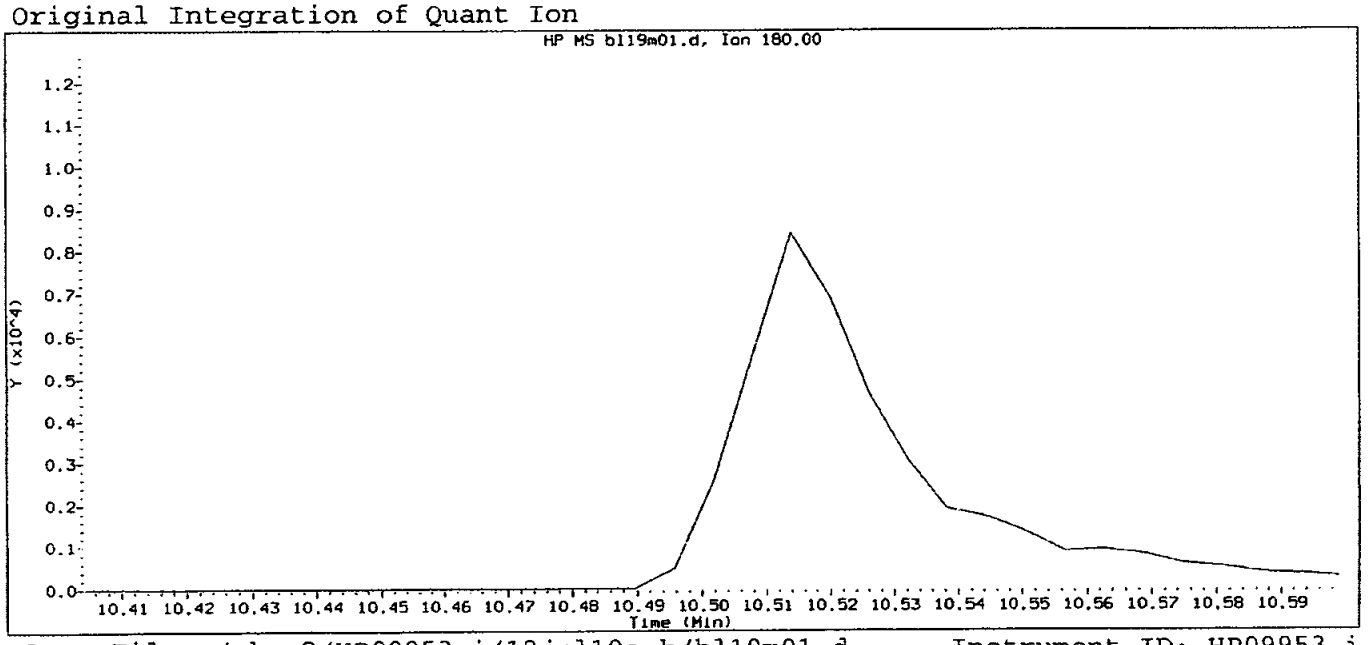
GC/MS audit/management approval: MM 7/26/12

ASX73 0233

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19m01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 12:37 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S
Calibration date and time: 19-JUL-2012 12:53
Date, time and analyst ID of latest file update: 19-Jul-2012 12:53 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Expected RT (minutes) : 10.502
Quant Ion : 180.00

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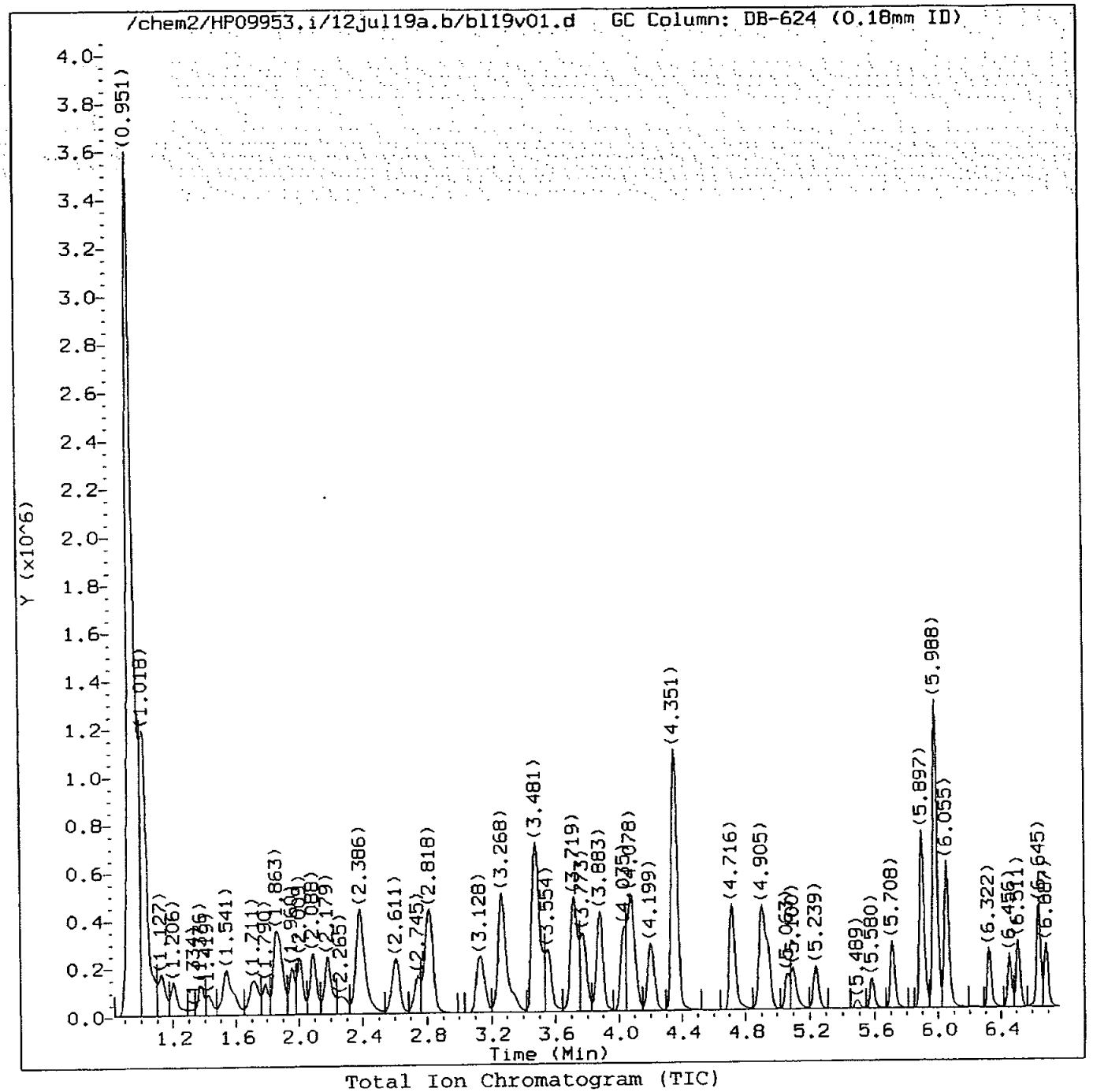
Target 3.5 esignature user ID: lct01518



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19v01.d
Injection date and time: 19-JUL-2012 13:01

Instrument ID: HP09953.i
Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

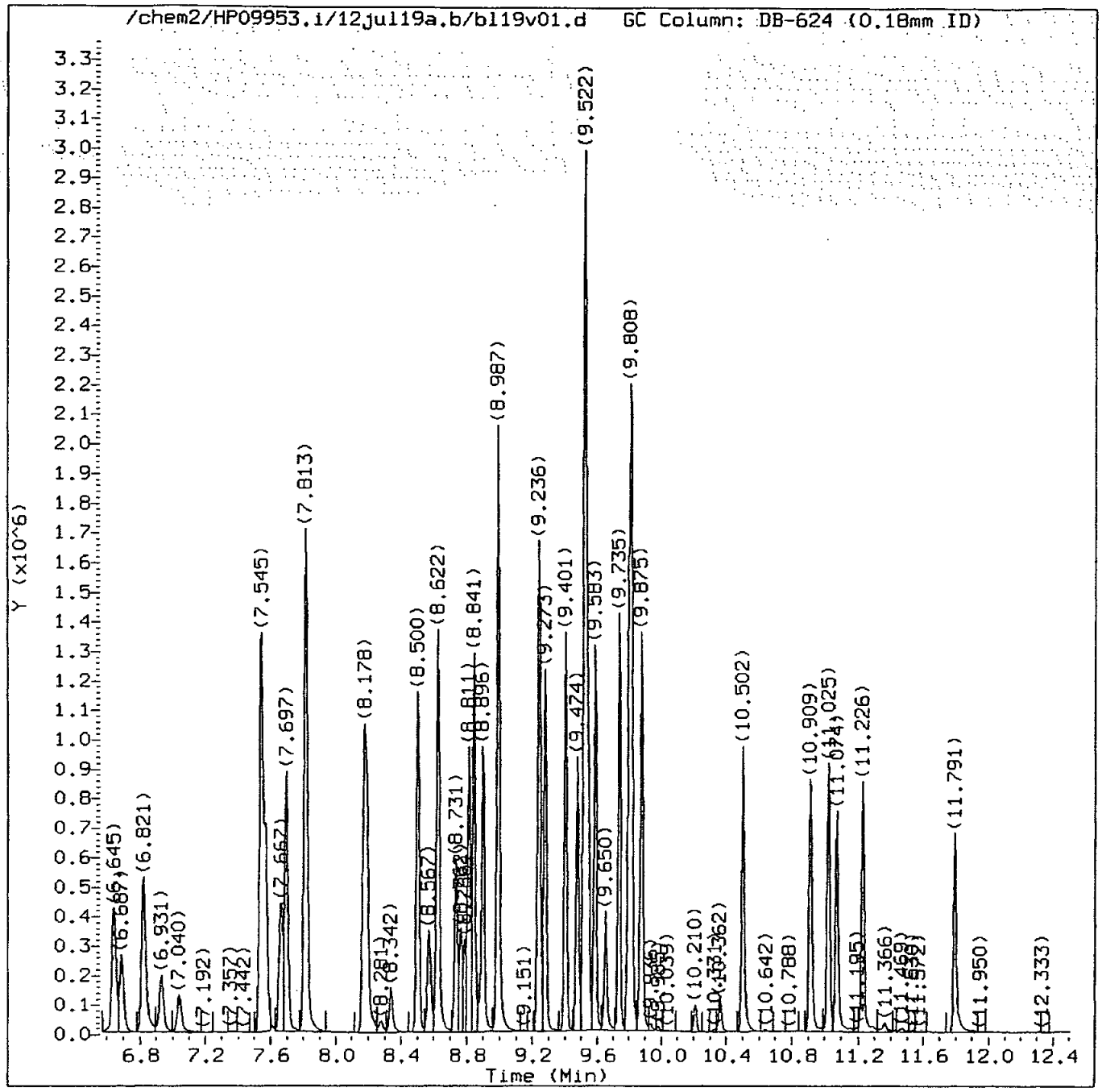
Sublist used: 8260S-E

Sample Name: LGBICV

Lab Sample ID: LGBICV

Digitally signed by Lauren C. Temple
on 07/26/2012 at 15:37.
Target 3.5 esignature user ID: lct01518

ASX73 0235



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19v01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 13:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: LGBICV Lab Sample ID: LGBICV

Digitally signed by Lauren C. Temple
on 07/26/2012 at 15:37.
Target 3.5 esignature user ID: lct01518

ASX73 0236

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19v01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 13:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: LGBICV Lab Sample ID: LGBICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.091	85	148600	15.030
3) Chloromethane	(1)	1.133	50	159493	16.032
4) Vinyl Chloride	(1)	1.206	62	144659	16.633
6) Bromomethane	(1)	1.376	94	98089	16.993
7) Chloroethane	(1)	1.425	64	76525	16.556
8) Dichlorofluoromethane	(1)	1.535	67	177635	15.206
9) Trichlorofluoromethane	(1)	1.547	101	180647	18.338
12) Freon 123a	(1)	1.717	67	140449	19.464
13) Acrolein	(4)	1.790	56	122563	124.617
14) 1,1-Dichloroethene	(1)	1.851	96	103733	21.656
18) Freon 113	(1)	1.881	101	117848	22.122
17) Acetone	(1)	1.881	43	202343	144.483
20) Methyl Iodide	(1)	1.960	142	207859	21.138
21) 2-Propanol	(4)	1.979	45	53244	139.214
23) Carbon Disulfide	(1)	2.009	76	338738	22.080
25) Allyl Chloride	(1)	2.088	41	180409	19.187
26) Methyl Acetate	(1)	2.106	43	87302M	24.535
27) Methylene Chloride	(1)	2.179	84	121373	19.592
28)*t-Butyl Alcohol-d10	(4)	2.216	65	91597	250.000
29) t-Butyl Alcohol	(4)	2.271	59	107704	173.185
30) Acrylonitrile	(4)	2.374	53	173449	80.620
31) trans-1,2-Dichloroethene	(1)	2.392	96	113747	19.178
32) Methyl Tertiary Butyl Ether	(1)	2.405	73	305381	19.014
35) n-Hexane	(1)	2.611	57	195084	22.034
37) 1,1-Dichloroethane	(1)	2.745	63	215570	19.524
40) di-Isopropyl Ether	(1)	2.812	45	401271	18.997
41) 2-Chloro-1,3-Butadiene	(1)	2.824	53	194282	20.431
43) Ethyl t-Butyl Ether	(1)	3.128	59	361761	19.112
45) 2,2-Dichloropropane	(1)	3.262	77	177328	19.779
44) cis-1,2-Dichloroethene	(1)	3.262	96	131207	19.419
46) 2-Butanone	(1)	3.281	43	379320	153.752
48) Propionitrile	(4)	3.348	54	105804	138.292
49) Methacrylonitrile	(4)	3.475	67	306360	137.179
50) Bromochloromethane	(1)	3.481	128	60040	18.541
51) Tetrahydrofuran	(4)	3.530	71	65790	94.918
52) Chloroform	(1)	3.560	83	208392	18.481
53)$Dibromofluoromethane	(1)	3.713	113	242623	50.755
55) 1,1,1-Trichloroethane	(1)	3.725	97	210090	16.422

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/26/2012 at 15:37.
Target 3.5 esignature user ID: lct01518

ASX73 0237

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19v01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 13:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: LGBICV Lab Sample ID: LGBICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
57) Cyclohexane	(1)	3.779	56	234166	20.916
59) 1,1-Dichloropropene	(1)	3.883	75	158487	18.796
60) Carbon Tetrachloride	(1)	3.883	117	159006	19.237
62)$1,2-Dichloroethane-d4	(1)	4.029	102	51758	51.348
64) Isobutyl Alcohol	(4)	4.047	41	89506	452.693
65) Benzene	(1)	4.078	78	476980	18.844
66) 1,2-Dichloroethane	(1)	4.102	62	146637	18.730
71) t-Amyl Methyl Ether	(1)	4.205	73	318361	19.032
72) n-Heptane	(1)	4.351	43	208332	20.147
73)*Fluorobenzene	(1)	4.357	96	1007176	50.000
69) 1,2-Dichloroethene (total)	(1)		96	244954	38.597
74) n-Butanol	(4)	4.710	56	138134	871.084
75) Trichloroethene	(1)	4.716	95	125167	18.701
77) Methylcyclohexane	(1)	4.905	83	224721	19.674
78) 1,2-Dichloropropane	(1)	4.941	63	121576	18.555
79) Dibromomethane	(1)	5.063	93	67755	18.206
81) 1,4-Dioxane	(4)	5.100	88	27716	453.125
80) Methyl Methacrylate	(1)	5.100	69	69227	18.242
83) Bromodichloromethane	(1)	5.239	83	140060	18.106
84) 2-Nitropropane	(4)	5.489	41	24943	18.696
86) 2-Chloroethyl Vinyl Ether	(1)	5.580	63	58816	18.771
87) cis-1,3-Dichloropropene	(1)	5.708	75	180213	19.597
89) 4-Methyl-2-Pentanone	(1)	5.897	43	616483	115.759
90)$Toluene-d8	(2)	5.988	98	960215	49.915
92) Toluene	(2)	6.055	92	300880	18.247
93) trans-1,3-Dichloropropene	(2)	6.322	75	145250	17.994
95) Ethyl Methacrylate	(2)	6.456	69	130572	18.393
96) 1,1,2-Trichloroethane	(2)	6.511	97	90883	18.223
97) Tetrachloroethene	(2)	6.645	166	145200	18.707
98) 1,3-Dichloropropane	(2)	6.687	76	149942	17.844
100) 2-Hexanone	(2)	6.821	58	221486	121.169
103) Dibromochloromethane	(2)	6.931	129	102830	18.137
105) 1,2-Dibromoethane	(2)	7.040	107	92742	18.091
106)*Chlorobenzene-d5	(2)	7.545	117	713681	50.000
107) Chlorobenzene	(2)	7.569	112	328178	18.240
108) 1,1,1,2-Tetrachloroethane	(2)	7.667	131	116642	18.152
109) Ethylbenzene	(2)	7.697	91	573381	18.450
110) m+p-Xylene	(2)	7.813	106	459025	37.179

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/26/2012 at 15:37.
Target 3.5 esignature user ID: lct01518

ASX73 0238

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul19a.b/bl19v01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 13:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: LGBICV Lab Sample ID: LGBICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
113) o-Xylene	(2)	8.172	106	225982	18.210
112) Xylene (Total)	(2)		106	685007	55.389
115) Styrene	(2)	8.190	104	368383	18.363
116) Bromoform	(2)	8.342	173	65211	16.816
117) Isopropylbenzene	(2)	8.500	105	603212	18.628
118) Cyclohexanone	(4)	8.567	55	134323	362.134
120)$4-Bromofluorobenzene	(2)	8.622	95	350259	49.980
122) Bromobenzene	(3)	8.738	156	153429	17.915
123) 1,1,2,2-Tetrachloroethane	(3)	8.762	83	120772	17.674
124) 1,2,3-Trichloropropane	(3)	8.786	110	34195	17.883
125) trans-1,4-Dichloro-2-Butene	(3)	8.811	53	173316	96.288
126) n-Propylbenzene	(3)	8.841	91	697426	18.563
127) 2-Chlorotoluene	(3)	8.896	126	144869	17.919
128) 1,3,5-Trimethylbenzene	(3)	8.987	105	512831	18.437
129) 4-Chlorotoluene	(3)	8.987	126	147752	18.065
131) tert-Butylbenzene	(3)	9.236	134	117053	18.174
132) Pentachloroethane	(3)	9.242	167	90013	17.831
133) 1,2,4-Trimethylbenzene	(3)	9.273	105	513578	18.031
134) sec-Butylbenzene	(3)	9.401	105	663929	18.636
135) 1,3-Dichlorobenzene	(3)	9.474	146	287488	17.675
136) p-Isopropyltoluene	(3)	9.516	119	578341	18.432
137)*1,4-Dichlorobenzene-d4	(3)	9.522	152	417068	50.000
138) 1,4-Dichlorobenzene	(3)	9.541	146	299652	17.487
139) 1,2,3-Trimethylbenzene	(3)	9.583	105	522944	18.291
140) Benzyl Chloride	(3)	9.650	91	222211	18.602
141) 1,3-Diethylbenzene	(3)	9.735	119	339180	18.387
142) 1,4-Diethylbenzene	(3)	9.796	119	357488	18.627
144) 1,2-Dichlorobenzene	(3)	9.808	146	281912	18.207
143) n-Butylbenzene	(3)	9.814	92	282946	18.232
145) 1,2-Diethylbenzene	(3)	9.875	119	290531	18.115
147) 1,2-Dibromo-3-Chloropropane	(3)	10.362	75	20719	16.811
149) 1,3,5-Trichlorobenzene	(3)	10.502	180	255177M	17.756
150) 1,2,4-Trichlorobenzene	(3)	10.915	180	224606	17.891
152) Hexachlorobutadiene	(3)	11.025	225	131934	18.333
153) Naphthalene	(3)	11.074	128	445083	17.369
154) 1,2,3-Trichlorobenzene	(3)	11.226	180	206215	17.455
155) 2-Methylnaphthalene	(3)	11.791	142	276267	17.924

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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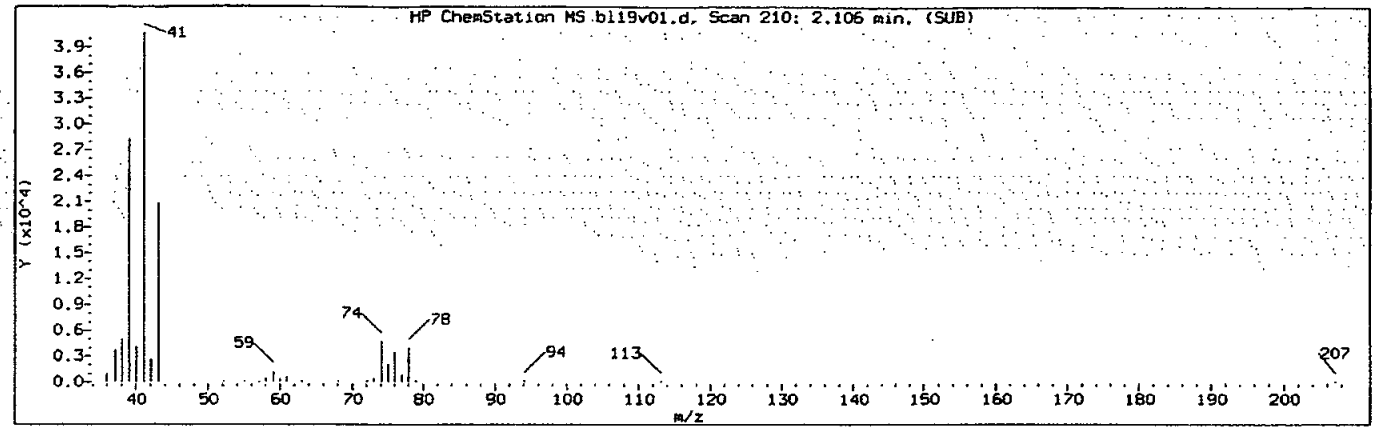
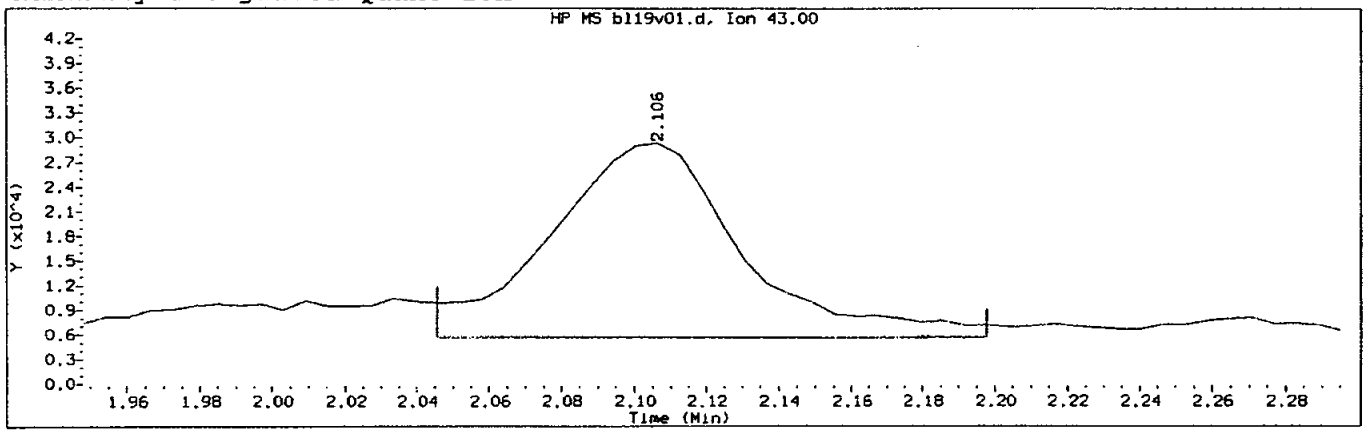
on 07/26/2012 at 15:37.
Target 3.5 esignature user ID: lct01518

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19v01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 13:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: LGBICV Lab Sample ID: LGBICV

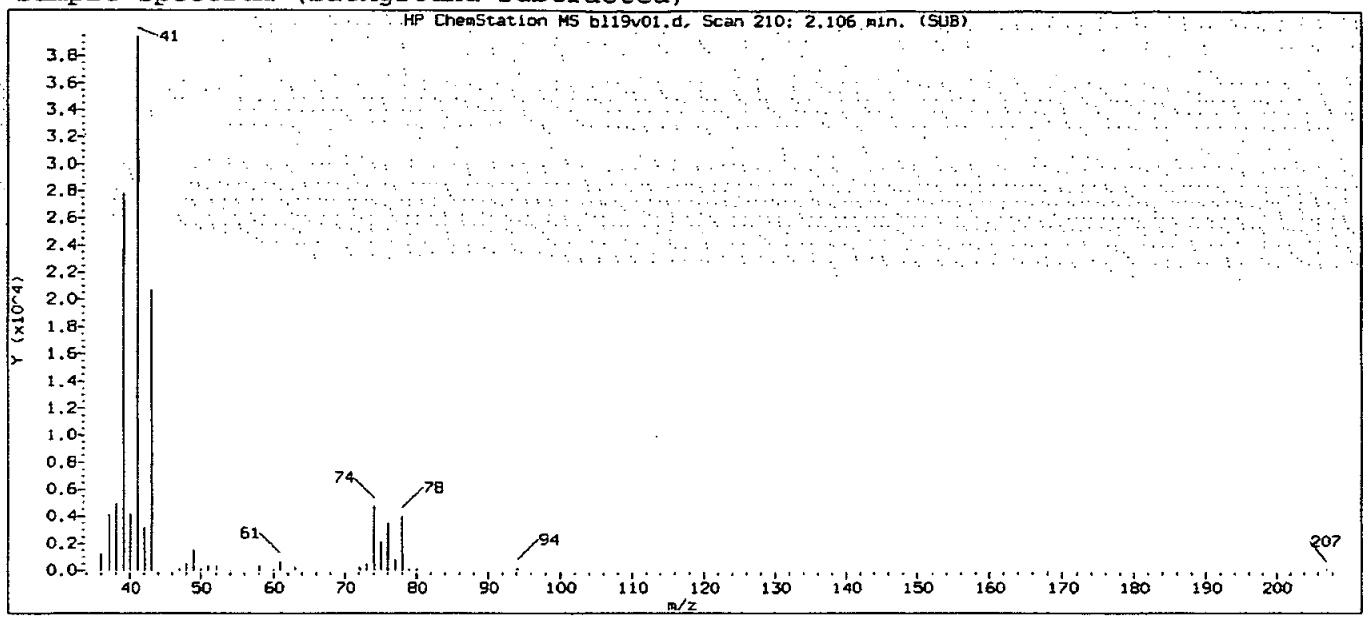
Compound Number : 26
Compound Name : Methyl Acetate
Scan Number : 210
Retention Time (minutes): 2.106
Quant Ion : 43.00
Area (flag) : 87302M
On-Column Amount (ng) : 24.5353
Integration start scan : 199 Integration stop scan: 224
Y at integration start : 5672 Y at integration end: 5672

Reason for manual integration: improper integration

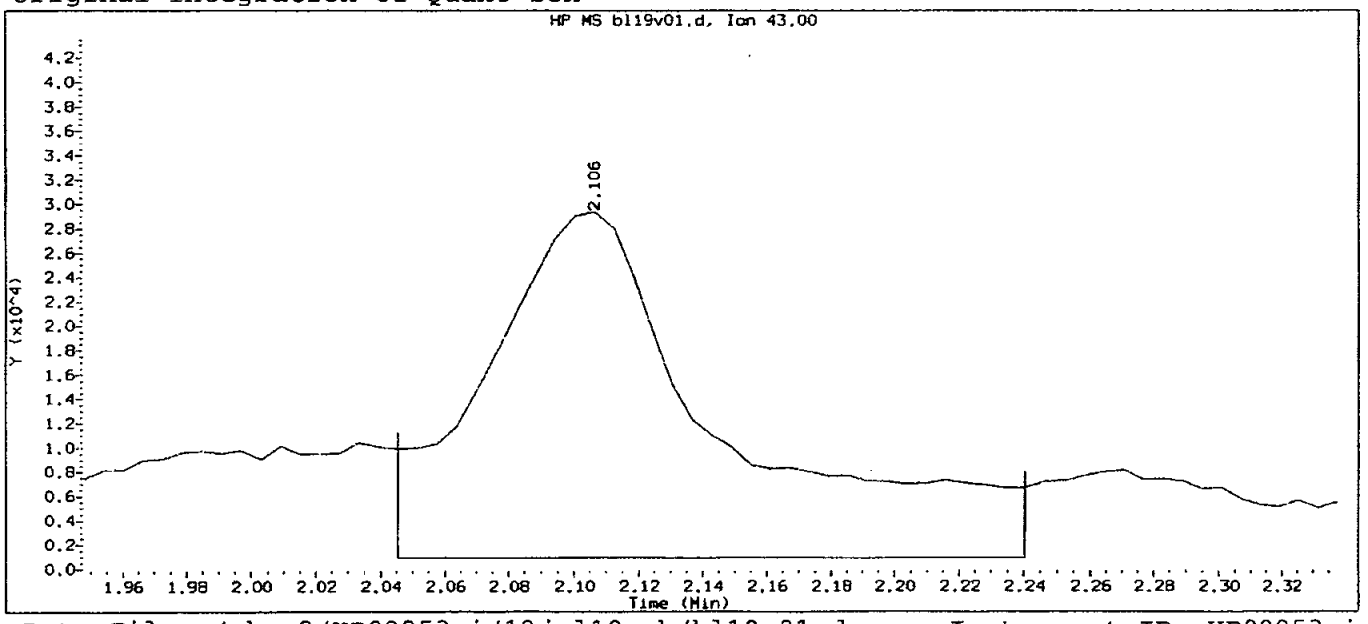
Analyst responsible for change: Digitally signed by Lauren C. Temple on 07/26/2012 at 15:37. Target 3.5 esignature user ID: lct01518

GC/MS audit/management approval: 7/26/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19v01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 13:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S
Calibration date and time: 19-JUL-2012 12:58
Date, time and analyst ID of latest file update: 19-Jul-2012 13:17 Automation

Sample Name: LGBICV Lab Sample ID: LGBICV

Compound Number : 26
Compound Name : Methyl Acetate
Scan Number : 210
Retention Time (minutes): 2.106
Quant Ion : 43.00
Area : 145240
On-column Amount (ng) : 40.8183
Integration start scan : 199 Integration stop scan: 231
Y at integration start : 904 Y at integration end: 904

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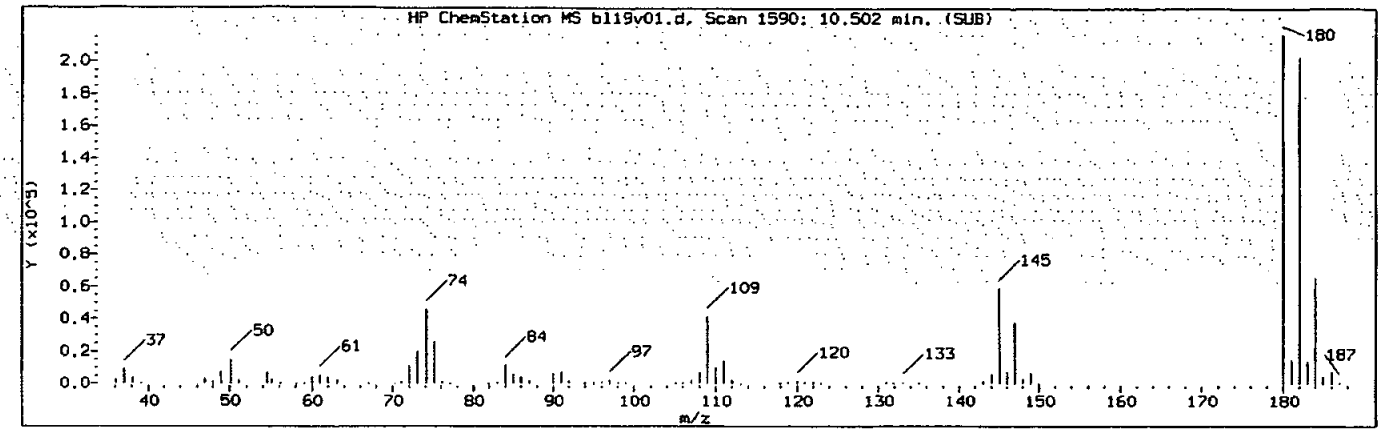
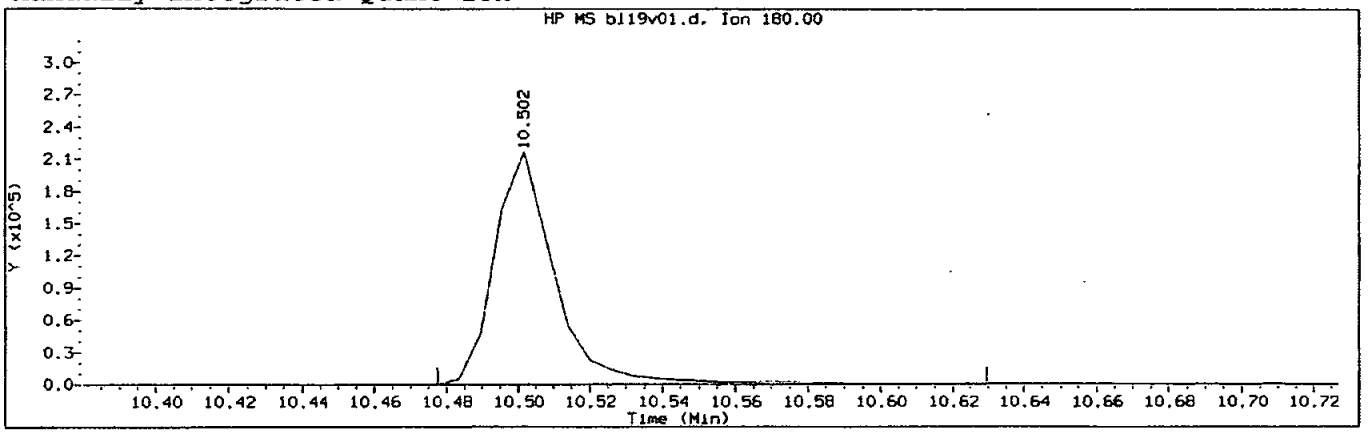
Target 3.5 esignature user ID: lct01518

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19v01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 13:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 26-JUL-2012 15:34
Date, time and analyst ID of latest file update: 26-Jul-2012 15:35 lct01518

Sample Name: LGBICV Lab Sample ID: LGBICV

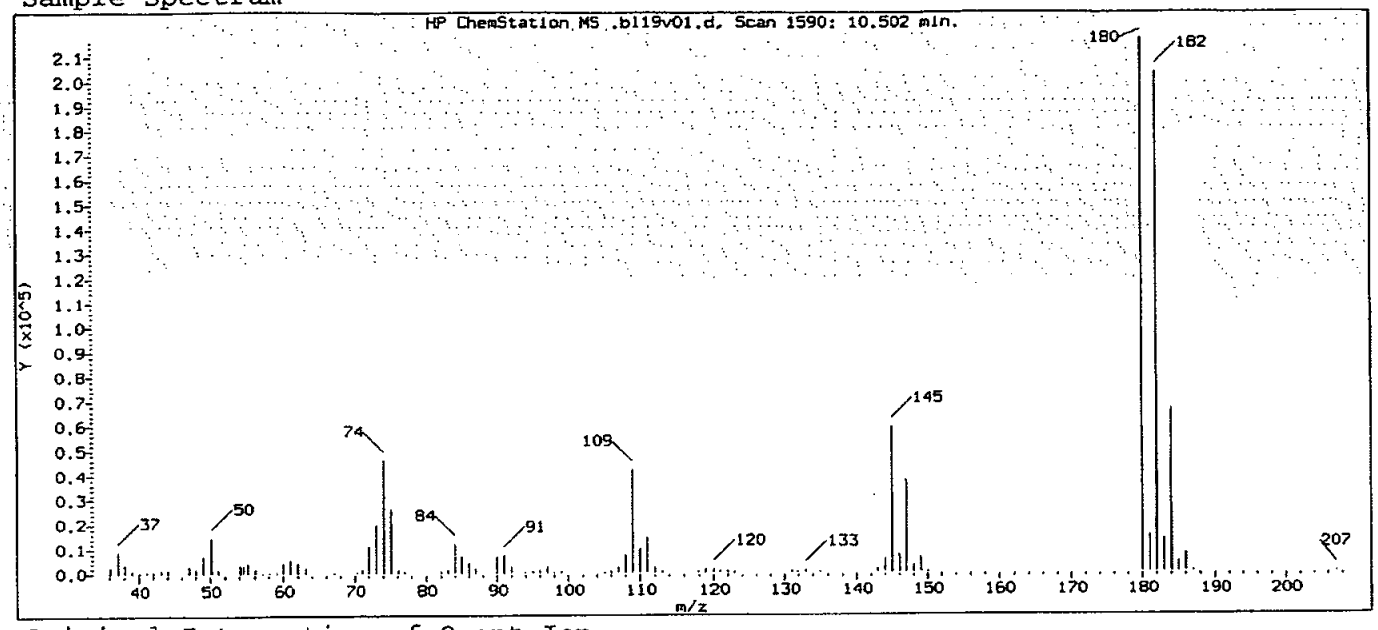
Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Scan Number : 1590
Retention Time (minutes): 10.502
Quant Ion : 180.00
Area (flag) : 255177M
On-Column Amount (ng) : 17.7557
Integration start scan : 1585 Integration stop scan: 1610
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

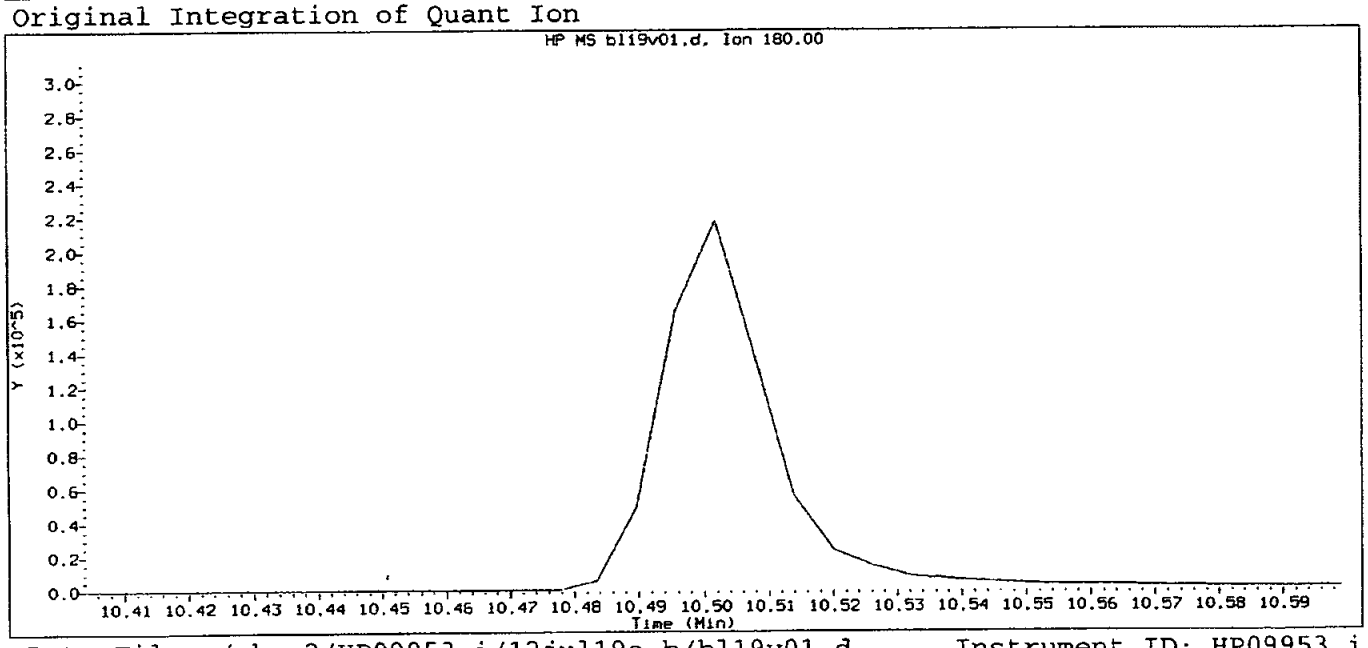
Analyst responsible for change: Digitally signed by Lauren C. Temple on 07/26/2012 at 15:37. Target 3.5 esignature user ID: lct01518

GC/MS audit/management approval: 7/26/12

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul19a.b/bl19v01.d Instrument ID: HP09953.i
Injection date and time: 19-JUL-2012 13:01 Analyst ID: ADS01731

Method used: /chem2/HP09953.i/12jul19a.b/B8260SL.m Sublist used: 8260S
Calibration date and time: 19-JUL-2012 12:58
Date, time and analyst ID of latest file update: 19-Jul-2012 13:17 Automation

Sample Name: LGBICV Lab Sample ID: LGBICV

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Expected RT (minutes) : 10.502
Quant Ion : 180.00

Digitally signed by Lauren C. Temple on 07/26/2012 at 15:37.
Target 3.5 esignature user ID: lct01518

Data File: /chem2/HP09953.i/12jul24a.b/bl24t01.d

Date : 24-JUL-2012 09:54

Client ID: BFB MAR28-12

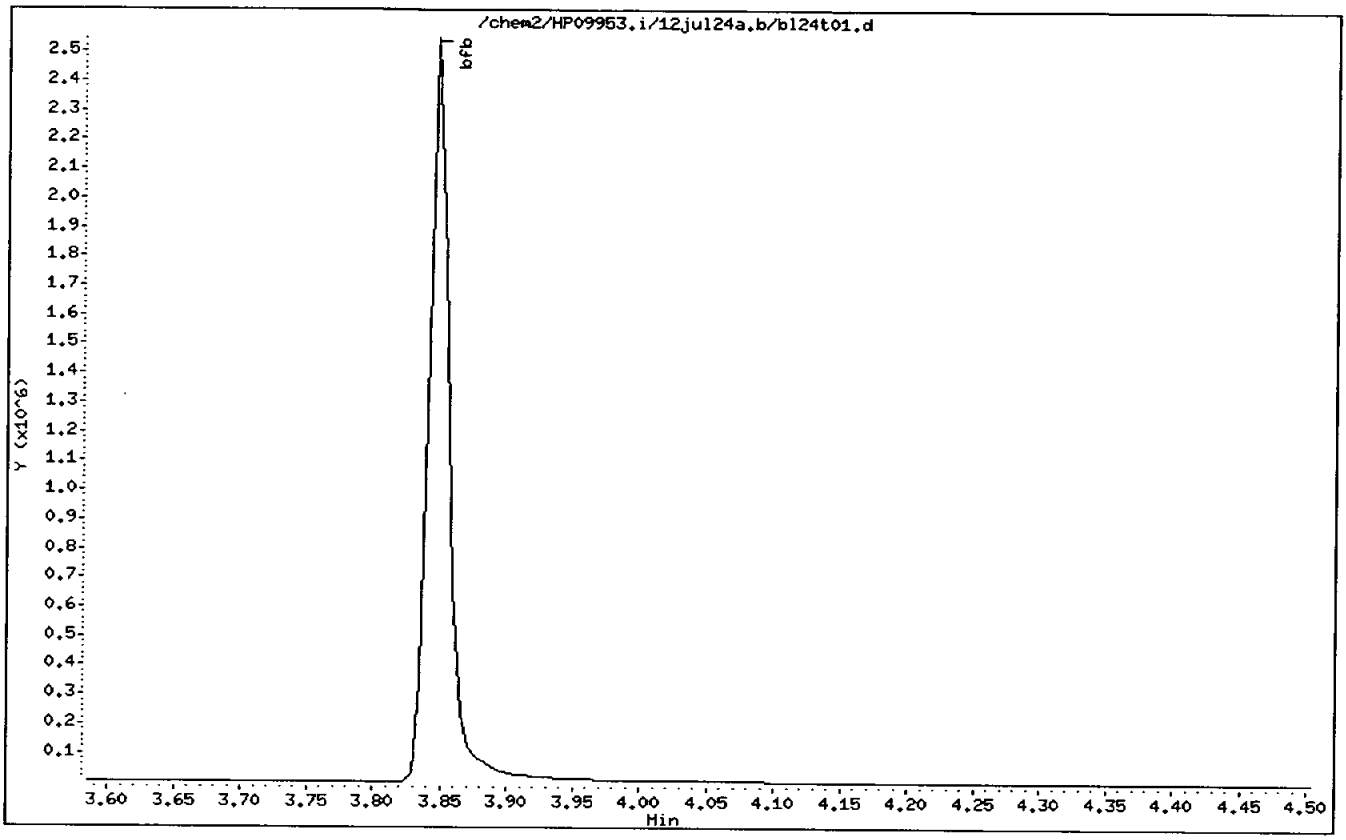
Instrument: HP09953.i

Sample Info: BFB MAR28-12;50ug BFB;2;3;;;;;;

Operator: KEL01973

Column phase: DB-624

Column diameter: 0.18



Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 10:03.
Target 3.5 esignature user ID: kel01973

Data File: /chem2/HP09953.i/12jul24a.b/bl24t01.d

Date : 24-JUL-2012 09:54

Client ID: BFB MAR28-12

Instrument: HP09953.i

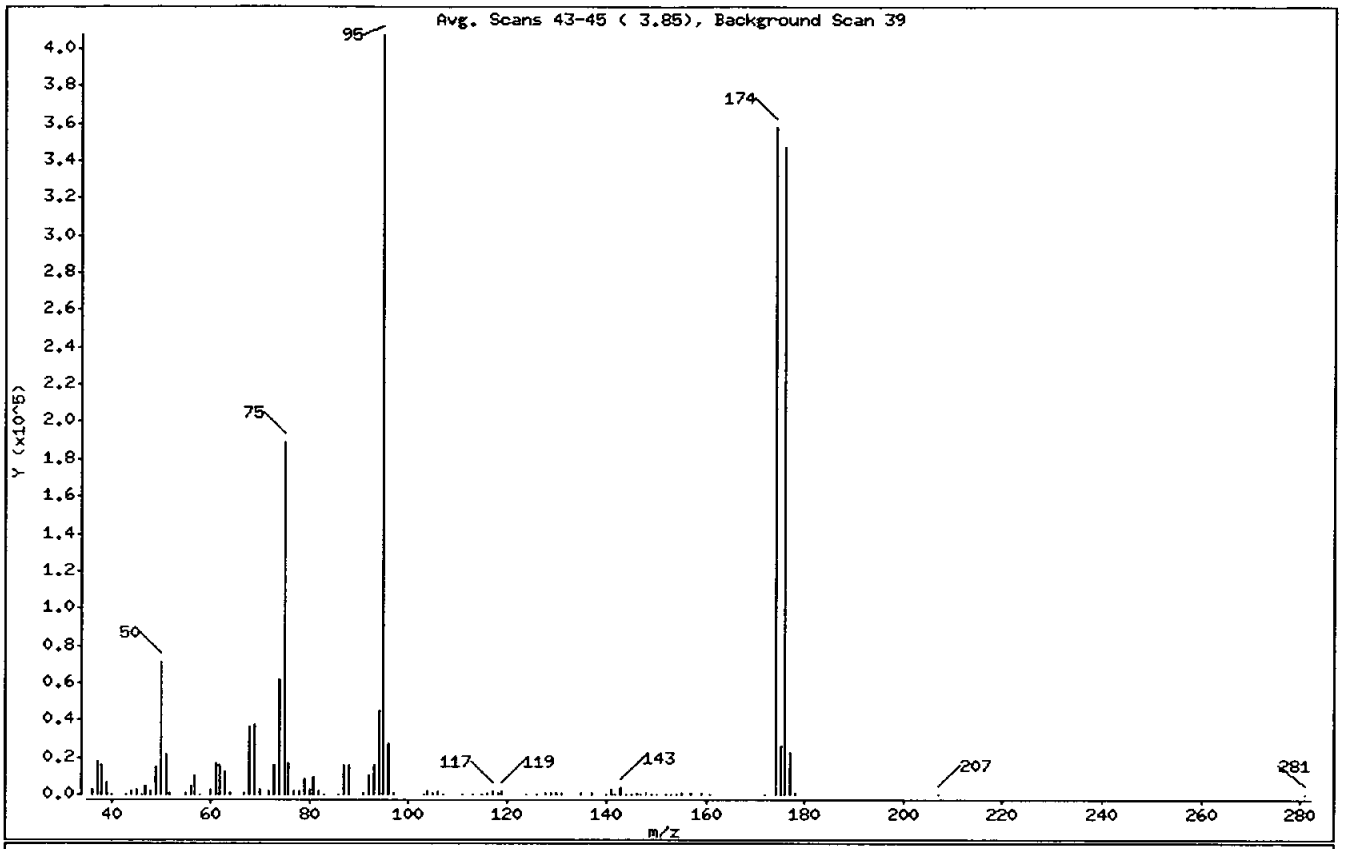
Sample Info: BFB MAR28-12;50ug BFB;2;3;;;;;;

Operator: KEL01973

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.37
75	30.00 - 60.00% of mass 95	46.34
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	87.86
175	5.00 - 9.00% of mass 174	6.47 (7.36)
176	95.00 - 101.00% of mass 174	85.22 (97.00)
177	5.00 - 9.00% of mass 176	5.56 (6.53)

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 10:03.
Target 3.5 esignature user ID: kel01973

Data File: /chem2/HP09953.i/12jul24a.b/bl24t01.d

Date : 24-JUL-2012 09:54

Client ID: BFB MAR28-12

Instrument: HP09953.i

Sample Info: BFB MAR28-12:50ug BFB;2;3;;;;;;

Operator: KEL01973

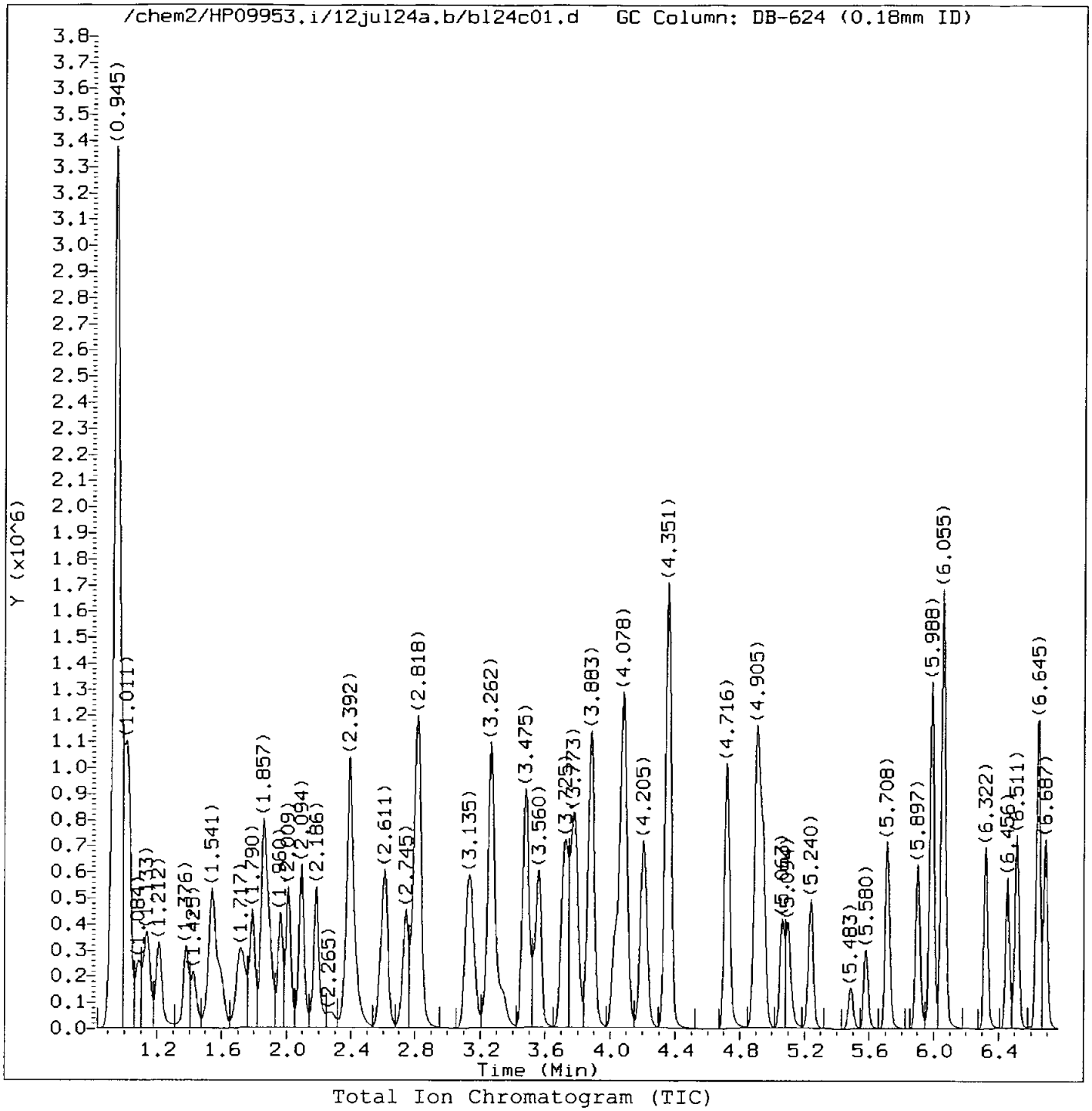
Column phase: DB-624

Column diameter: 0.18

Data File: bl24t01.d
Spectrum: Avg. Scans 43-45 (3.85), Background Scan 39
Location of Maximum: 95.00
Number of points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3186	68.00	36760	103.00	101	145.00	233
37.00	17728	69.00	37760	104.00	1407	146.00	582
38.00	15678	70.00	3120	105.00	489	147.00	213
39.00	6213	72.00	1707	106.00	1473	148.00	880
40.00	183	73.00	15682	107.00	180	149.00	206
43.00	182	74.00	61848	111.00	300	150.00	393
44.00	1744	75.00	188800	113.00	182	152.00	93
45.00	3187	76.00	16448	115.00	404	153.00	223
46.00	194	77.00	2277	116.00	1234	154.00	123
47.00	4869	78.00	1509	117.00	2214	155.00	948
48.00	2081	79.00	8849	118.00	1352	157.00	665
49.00	14827	80.00	2481	119.00	1868	159.00	485
50.00	70760	81.00	9214	124.00	123	161.00	411
51.00	21760	82.00	1876	126.00	94	172.00	87
52.00	927	83.00	104	128.00	1314	174.00	357952
55.00	979	86.00	271	129.00	613	175.00	26352
56.00	5079	87.00	16311	130.00	1357	176.00	347200
57.00	9899	88.00	15472	131.00	632	177.00	22664
58.00	375	91.00	1190	135.00	676	178.00	626
60.00	3209	92.00	10290	137.00	642	207.00	8
61.00	16472	93.00	15912	140.00	216	281.00	133
62.00	16103	94.00	44720	141.00	3241		
63.00	12567	95.00	407424	142.00	456		
64.00	1125	96.00	27320	143.00	3536		
67.00	1073	97.00	887	144.00	108		

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 10:03.
Target 3.5 esignature user ID: kel01973



Total Ion Chromatogram (TIC)

Target Revision 3.5

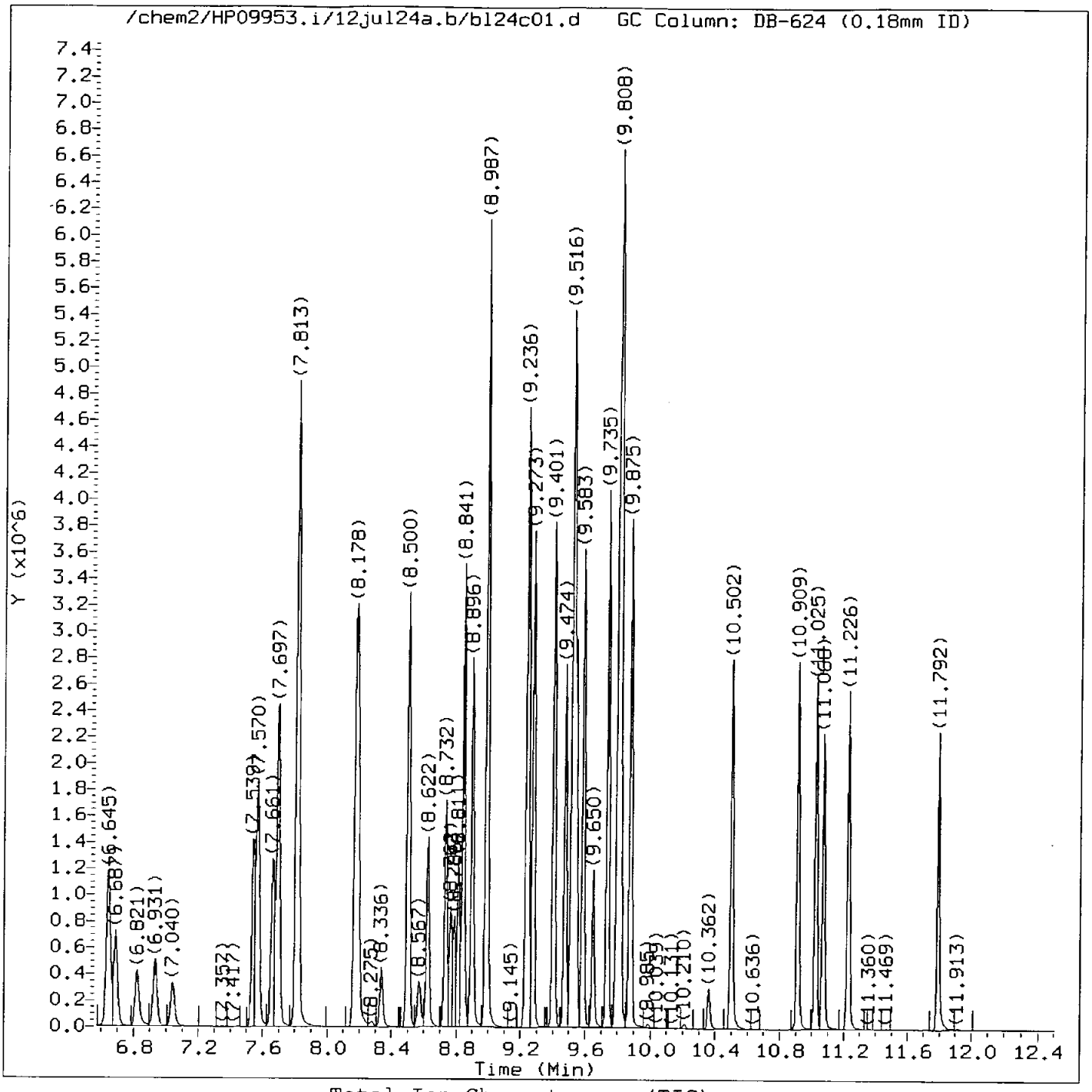
Data File: /chem2/HP09953.i/12jul24a.b/bl24c01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 10:18 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 24-JUL-2012 11:46
Date, time and analyst ID of latest file update: 24-Jul-2012 11:46 kel01973

Sample Name: VSTD050 Lab Sample ID: VSTD050

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 11:46.
Target 3.5 esignature user ID: kel01973

ASX73 0247



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24c01.d
Injection date and time: 24-JUL-2012 10:18

Instrument ID: HP09953.i
Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m
Calibration date and time: 24-JUL-2012 11:46

Sublist used: 8260SI-E

Date, time and analyst ID of latest file update: 24-Jul-2012 11:46 kel01973

Sample Name: VSTD050

Lab Sample ID: VSTD050

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 11:46.
Target 3.5 esignature user ID: kel01973

ASX73 9248

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24c01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 10:18 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 24-JUL-2012 11:46
Date, time and analyst ID of latest file update: 24-Jul-2012 11:46 kel01973

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.084	85	503535	49.946
3) Chloromethane	(1)	1.139	50	510090	50.282
4) Vinyl Chloride	(1)	1.212	62	462007	52.097
6) Bromomethane	(1)	1.376	94	301256	51.183
7) Chloroethane	(1)	1.425	64	243561	51.676
8) Dichlorofluoromethane	(1)	1.541	67	600790	50.436
9) Trichlorofluoromethane	(1)	1.589	101	527233	52.487
12) Freon 123a	(1)	1.717	67	362944	49.327
13) Acrolein	(4)	1.790	56	465492	523.015
14) 1,1-Dichloroethene	(1)	1.857	96	253746	51.950
18) Freon 113	(1)	1.881	101	308838	56.853
17) Acetone	(1)	1.881	43	127716	89.434
20) Methyl Iodide	(1)	1.960	142	542561	54.109
21) 2-Propanol	(4)	1.979	45	79426	229.488
23) Carbon Disulfide	(1)	2.009	76	827801	52.916
25) Allyl Chloride	(1)	2.088	41	422590	44.076
26) Methyl Acetate	(1)	2.100	43	154644	42.622
27) Methylene Chloride	(1)	2.186	84	291395	46.129
28)*t-Butyl Alcohol-d10	(4)	2.222	65	82889	250.000
29) t-Butyl Alcohol	(4)	2.277	59	109066	193.800
30) Acrylonitrile	(4)	2.374	53	100139	51.435
31) trans-1,2-Dichloroethene	(1)	2.392	96	324815	53.708
32) Methyl Tertiary Butyl Ether	(1)	2.398	73	815284	49.782
35) n-Hexane	(1)	2.611	57	503560	55.778
37) 1,1-Dichloroethane	(1)	2.745	63	593147	52.684
40) di-Isopropyl Ether	(1)	2.806	45	1057505	49.098
41) 2-Chloro-1,3-Butadiene	(1)	2.818	53	494270	50.974
43) Ethyl t-Butyl Ether	(1)	3.135	59	909462	47.118
44) cis-1,2-Dichloroethene	(1)	3.262	96	352429	51.152
45) 2,2-Dichloropropane	(1)	3.268	77	463528	50.702
46) 2-Butanone	(1)	3.281	43	234340	93.152
48) Propionitrile	(4)	3.341	54	174532	252.090
49) Methacrylonitrile	(4)	3.475	67	257466	127.397
50) Bromochloromethane	(1)	3.481	128	166105	50.305
51) Tetrahydrofuran	(4)	3.524	71	63588	101.379
52) Chloroform	(1)	3.560	83	558812	48.599
53)$Dibromofluoromethane	(1)	3.713	113	245511	50.367
54)$Dibromofluoromethane(mz111)	(1)	3.713	111	250358	50.378

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 11:46.
Target 3.5 esignature user ID: kel01973

ASX73 0249

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24c01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 10:18 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 24-JUL-2012 11:46
Date, time and analyst ID of latest file update: 24-Jul-2012 11:46 kel01973

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	3.731	97	497153	38.110
57) Cyclohexane	(1)	3.779	56	622512	54.530
58) Cyclohexane(mz84)	(1)	3.779	84	521021	56.033
56) Cyclohexane(mz69)	(1)	3.779	69	188489	55.188
59) 1,1-Dichloropropene	(1)	3.877	75	453650	52.764
60) Carbon Tetrachloride	(1)	3.883	117	436501	51.790
63)$1,2-Dichloroethane-d4(mz65)	(1)	4.023	65	240362	48.342
62)$1,2-Dichloroethane-d4	(1)	4.023	102	53199	51.758
61)$1,2-Dichloroethane-d4(mz104)	(1)	4.029	104	33759	50.903
64) Isobutyl Alcohol	(4)	4.041	41	102800	574.551
65) Benzene	(1)	4.078	78	1312772	50.862
67) 1,2-Dichloroethane(mz98)	(1)	4.102	98	36572	49.048
66) 1,2-Dichloroethane	(1)	4.102	62	382937	47.969
71) t-Amyl Methyl Ether	(1)	4.205	73	804322	47.154
73)*Fluorobenzene	(1)	4.351	96	1027008	50.000
72) n-Heptane	(1)	4.357	43	557563	52.879
69) 1,2-Dichloroethene (total)	(1)		96	677244	104.694
74) n-Butanol	(4)	4.716	56	160223	1116.525
75) Trichloroethene	(1)	4.716	95	340445	49.884
76) Methylcyclohexane(mz98)	(1)	4.905	98	275036	52.638
77) Methylcyclohexane	(1)	4.905	83	610479	52.416
78) 1,2-Dichloropropane	(1)	4.941	63	343576	51.424
79) Dibromomethane	(1)	5.063	93	184763	48.687
80) Methyl Methacrylate	(1)	5.100	69	175535	45.363
81) 1,4-Dioxane	(4)	5.106	88	35704	645.044
83) Bromodichloromethane	(1)	5.240	83	376312	47.708
84) 2-Nitropropane	(4)	5.489	41	113539	94.041
86) 2-Chloroethyl Vinyl Ether	(1)	5.580	63	151992	47.571
87) cis-1,3-Dichloropropene	(1)	5.708	75	469284	50.047
89) 4-Methyl-2-Pentanone	(1)	5.897	43	518715	95.520
90)$Toluene-d8	(2)	5.988	98	1009561	50.694
91)$Toluene-d8(mz100)	(2)	5.988	100	666005	50.841
92) Toluene	(2)	6.055	92	843409	49.410
93) trans-1,3-Dichloropropene	(2)	6.322	75	398118	47.643
95) Ethyl Methacrylate	(2)	6.456	69	334320	45.492
96) 1,1,2-Trichloroethane	(2)	6.511	97	247442	47.927
97) Tetrachloroethene	(2)	6.645	166	401183	49.929
98) 1,3-Dichloropropane	(2)	6.687	76	427244	49.115

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/24/2012 at 11:46.
Target 3.5 esignature user ID: kel01973

ASX73 0250

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24c01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 10:18 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 24-JUL-2012 11:46
Date, time and analyst ID of latest file update: 24-Jul-2012 11:46 kel01973

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
100) 2-Hexanone	(2)	6.821	58	181723	96.033
103) Dibromochloromethane	(2)	6.931	129	282500	48.132
105) 1,2-Dibromoethane	(2)	7.040	107	249817	47.074
106)*Chlorobenzene-d5	(2)	7.539	117	738820	50.000
107) Chlorobenzene	(2)	7.570	112	940471	50.492
108) 1,1,1,2-Tetrachloroethane	(2)	7.661	131	330826	49.731
109) Ethylbenzene	(2)	7.697	91	1611258	50.081
110) m+p-Xylene	(2)	7.813	106	1292649	101.136
113) o-Xylene	(2)	8.172	106	648278	50.463
112) Xylene (Total)	(2)		106	1940927	151.598
115) Styrene	(2)	8.190	104	1016576	48.949
116) Bromoform	(2)	8.336	173	186073	46.351
117) Isopropylbenzene	(2)	8.500	105	1721112	51.341
118) Cyclohexanone	(4)	8.567	55	132402	203.597
120)$4-Bromofluorobenzene	(2)	8.622	95	358855	49.464
121)$4-Bromofluorobenzene(mz174)	(2)	8.622	174	328635	48.557
122) Bromobenzene	(3)	8.732	156	417419	45.996
123) 1,1,2,2-Tetrachloroethane	(3)	8.762	83	321124	44.350
124) 1,2,3-Trichloropropane	(3)	8.786	110	90728	44.778
125) trans-1,4-Dichloro-2-Butene	(3)	8.811	53	204948M	107.455
126) n-Propylbenzene	(3)	8.841	91	1960292	49.240
127) 2-Chlorotoluene	(3)	8.896	126	414051	48.333
129) 4-Chlorotoluene	(3)	8.987	126	424300	48.958
128) 1,3,5-Trimethylbenzene	(3)	8.987	105	1453780	49.323
131) tert-Butylbenzene	(3)	9.236	134	341449	50.031
132) Pentachloroethane	(3)	9.243	167	256167	47.888
133) 1,2,4-Trimethylbenzene	(3)	9.273	105	1478438	48.985
134) sec-Butylbenzene	(3)	9.401	105	1917022	50.781
135) 1,3-Dichlorobenzene	(3)	9.474	146	827437	48.010
136) p-Isopropyltoluene	(3)	9.516	119	1689869	50.827
137)*1,4-Dichlorobenzene-d4	(3)	9.522	152	441935	50.000
138) 1,4-Dichlorobenzene	(3)	9.541	146	847061	46.652
139) 1,2,3-Trimethylbenzene	(3)	9.583	105	1447504	47.780
140) Benzyl Chloride	(3)	9.650	91	614706	41.073
141) 1,3-Diethylbenzene	(3)	9.735	119	957965	49.011
142) 1,4-Diethylbenzene	(3)	9.796	119	999434	49.145
144) 1,2-Dichlorobenzene	(3)	9.808	146	789860	48.143
143) n-Butylbenzene	(3)	9.814	92	815499	49.591

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 11:46.
Target 3.5 esignature user ID: kel01973

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24c01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 10:18 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 24-JUL-2012 11:46
Date, time and analyst ID of latest file update: 24-Jul-2012 11:46 kel01973

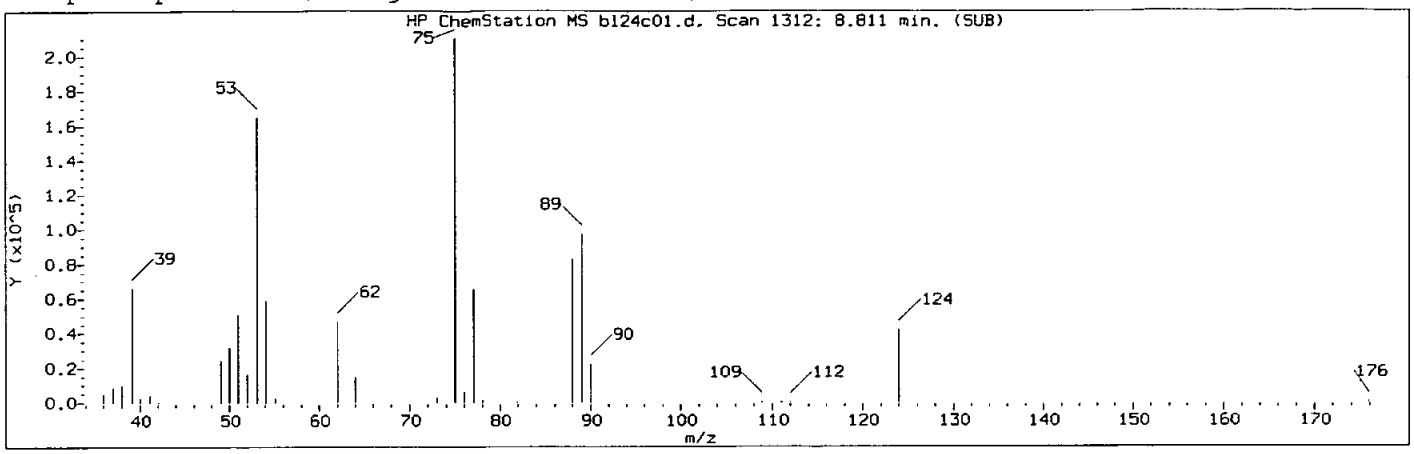
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
145) 1,2-Diethylbenzene	(3)	9.875	119	810545	47.694
147) 1,2-Dibromo-3-Chloropropane	(3)	10.362	75	56159	43.003
149) 1,3,5-Trichlorobenzene	(3)	10.502	180	725791M	47.660
150) 1,2,4-Trichlorobenzene	(3)	10.909	180	633108	47.593
152) Hexachlorobutadiene	(3)	11.025	225	365338	47.909
153) Naphthalene	(3)	11.068	128	1262364	46.491
154) 1,2,3-Trichlorobenzene	(3)	11.226	180	586127	46.822
155) 2-Methylnaphthalene	(3)	11.792	142	749446	45.887

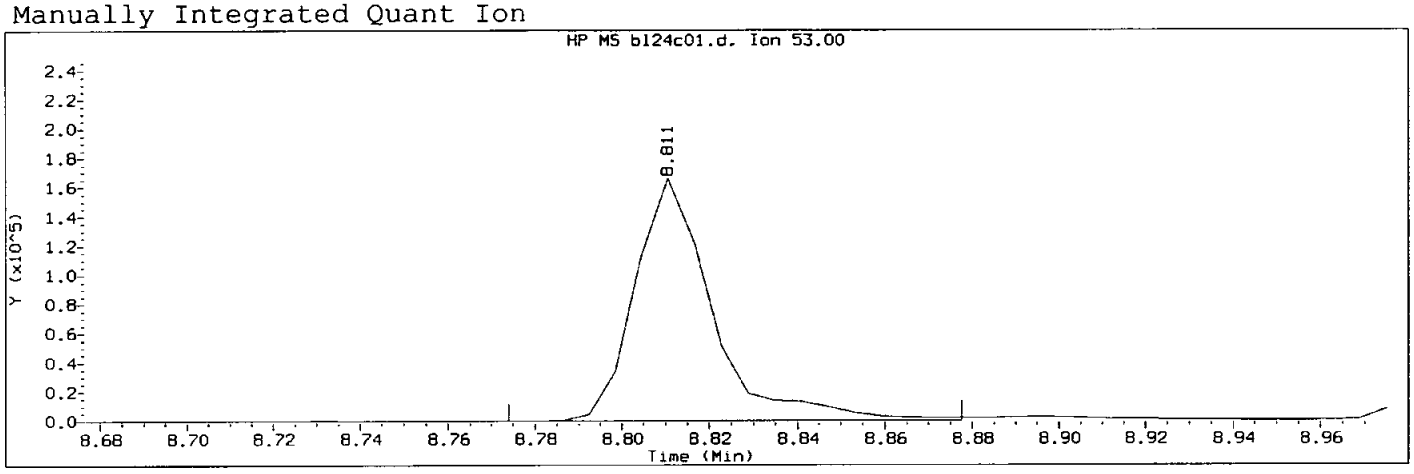
M = Compound was manually integrated.

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 11:46.
Target 3.5 esignature user ID: kel01973

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul24a.b/bl24c01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 10:18 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 24-JUL-2012 11:46
Date, time and analyst ID of latest file update: 24-Jul-2012 11:46 kel01973

Sample Name: VSTD050 Lab Sample ID: VSTD050

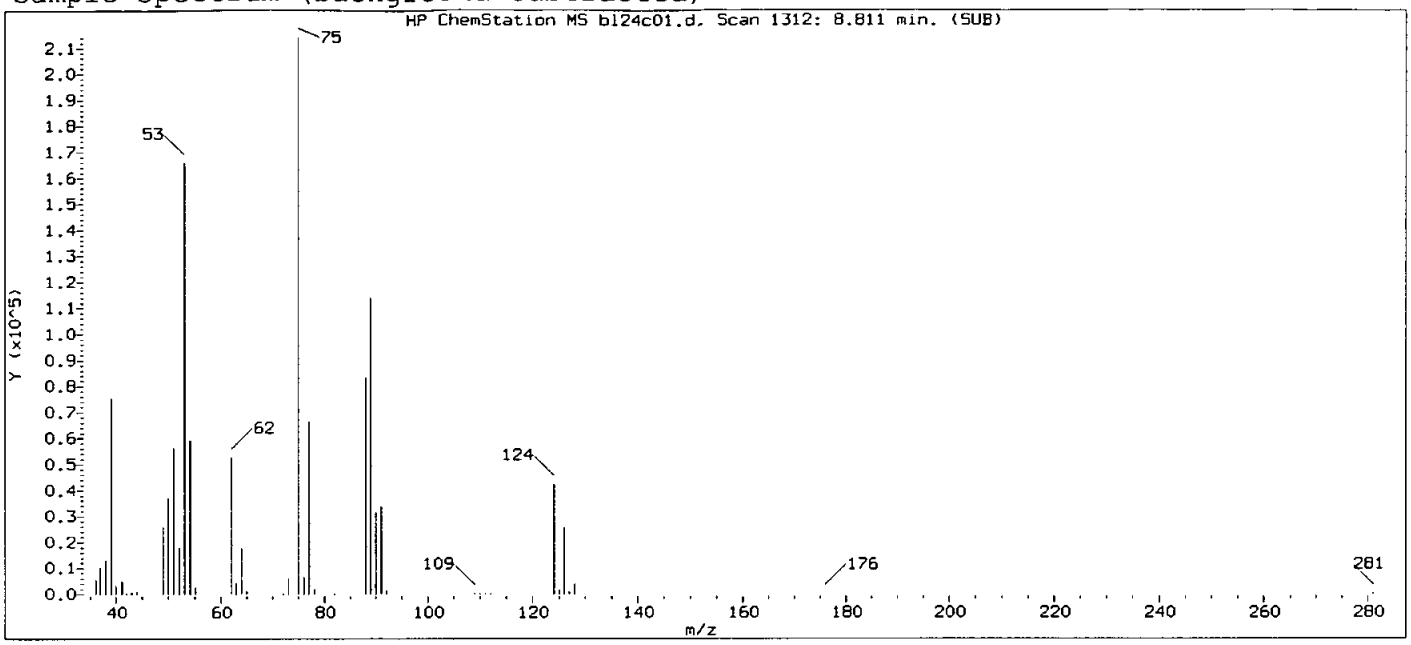
Compound Number : 125
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1312
Retention Time (minutes): 8.811
Quant Ion : 53.00
Area (flag) : 204948M
On-Column Amount (ng) : 107.4550
Integration start scan : 1305 Integration stop scan: 1322
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

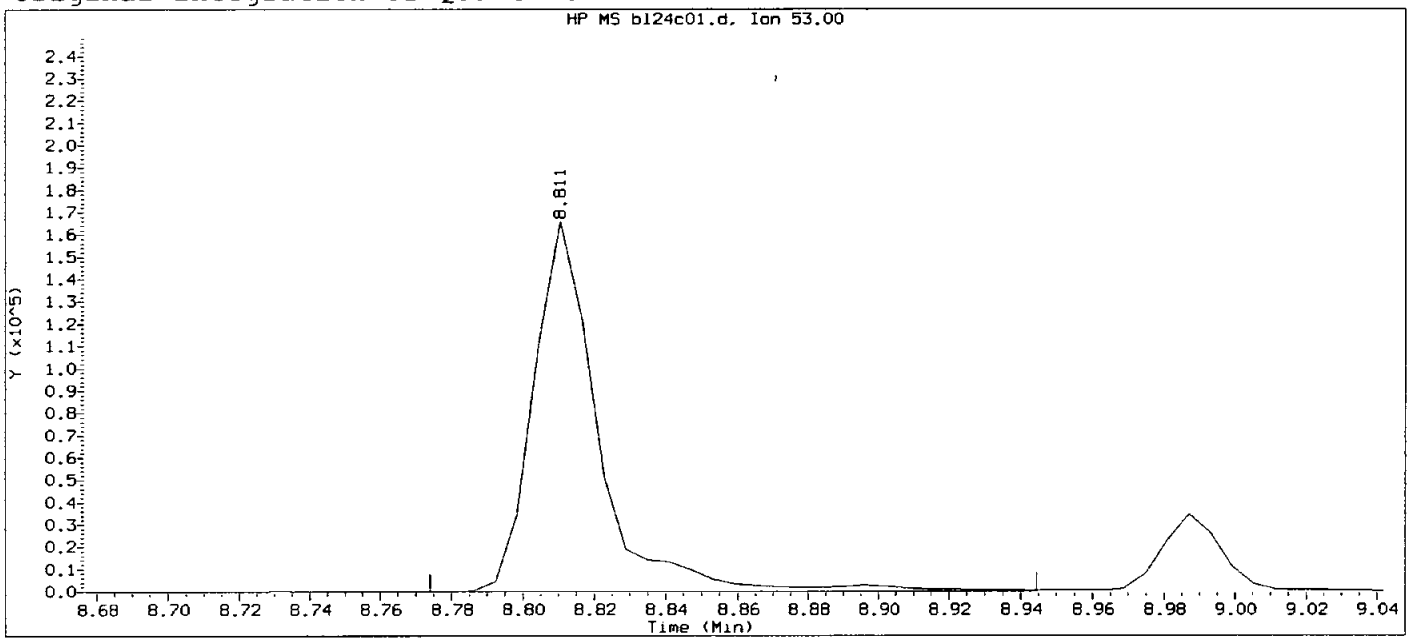
Analyst responsible for change: Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 11:46. Target 3.5 esignature user ID: kel01973

Secondary review performed and digitally signed by Abraham H. Uysal on 07/25/2012 at 14:17.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul24a.b/bl24c01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 10:18 Analyst ID: KEL01973

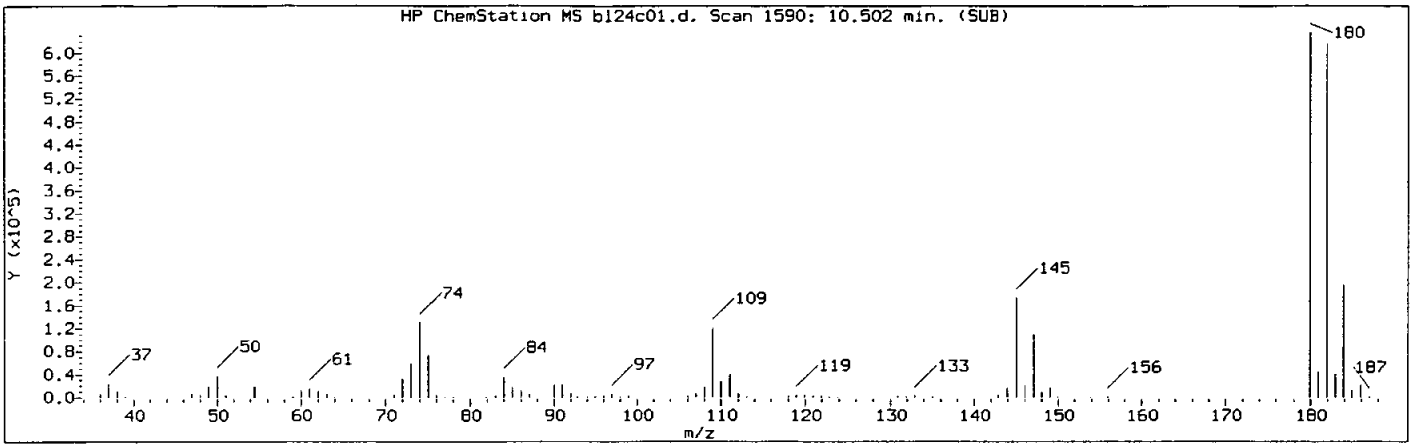
Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: all
Calibration date and time: 24-JUL-2012 10:34
Date, time and analyst ID of latest file update: 24-Jul-2012 10:34 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

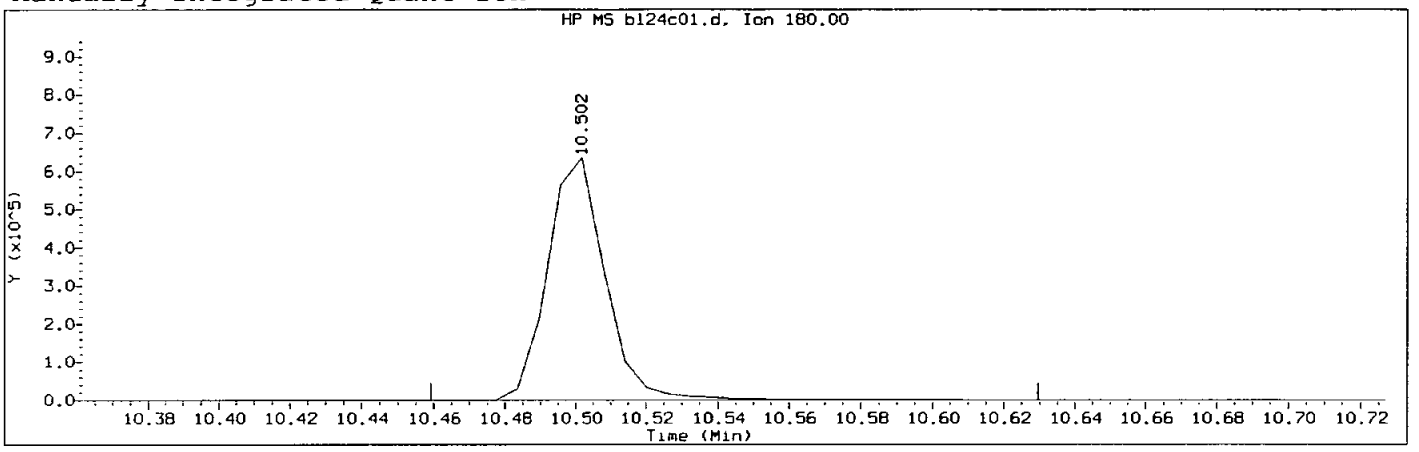
Compound Number : 125
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1312
Retention Time (minutes): 8.811
Quant Ion : 53.00
Area : 210579
On-column Amount (ng) : 110.4072
Integration start scan : 1305 Integration stop scan: 1333
Y at integration start : 0 Y at integration end: 0

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 11:46.
Target 3.5 esignature user ID: kel01973

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul24a.b/bl24c01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 10:18 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260SI-E
Calibration date and time: 24-JUL-2012 11:46
Date, time and analyst ID of latest file update: 24-Jul-2012 11:46 kel01973

Sample Name: VSTD050 Lab Sample ID: VSTD050

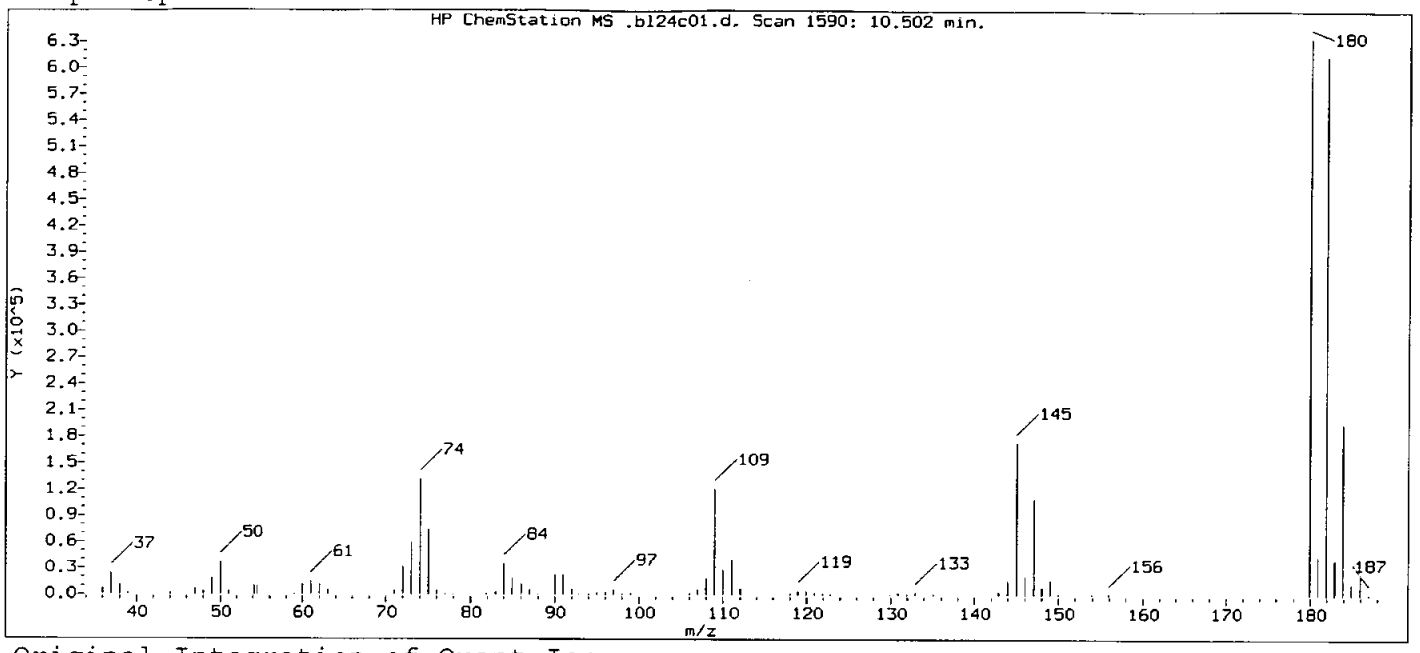
Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Scan Number : 1590
Retention Time (minutes): 10.502
Quant Ion : 180.00
Area (flag) : 725791M
On-Column Amount (ng) : 47.6602
Integration start scan : 1582 Integration stop scan: 1610
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

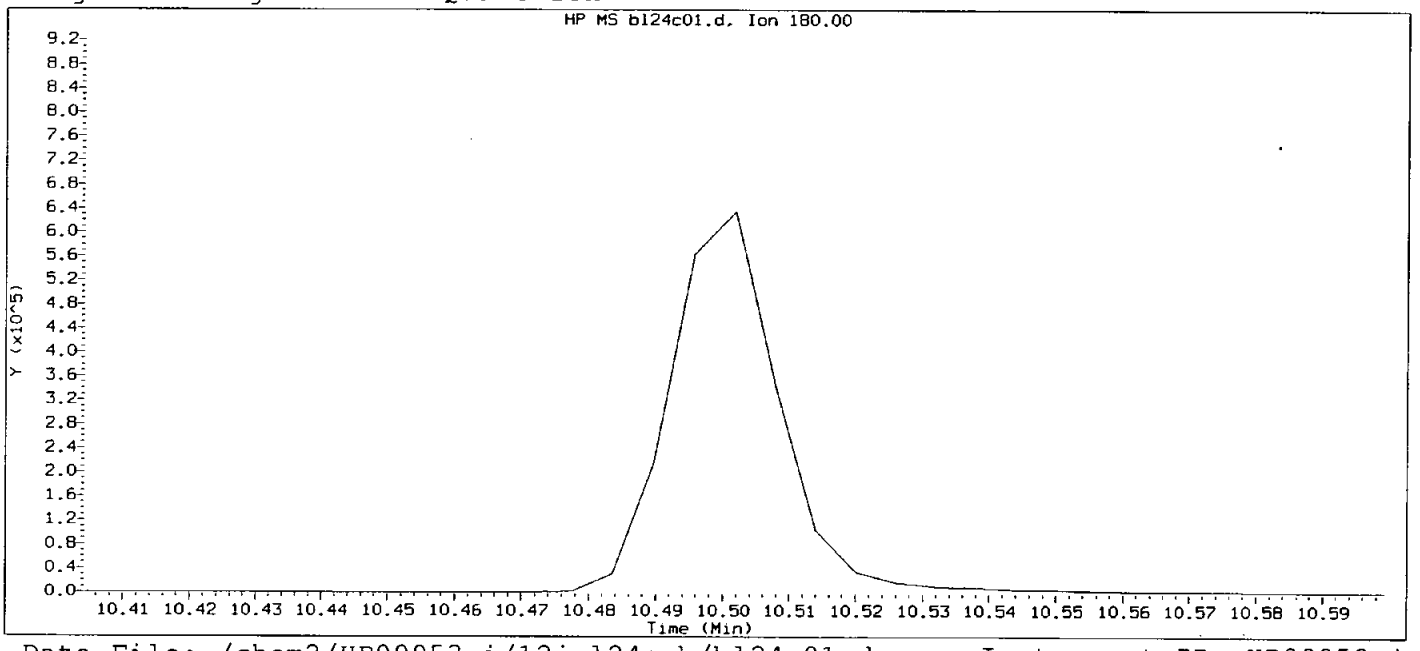
Analyst responsible for change: Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 11:46. Target 3.5 esignature user ID: kel01973

Secondary review performed and digitally signed by Abraham H. Uysal on 07/25/2012 at 14:17.
Parallax ID: ahu01800

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul24a.b/bl24c01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 10:18 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: all
Calibration date and time: 24-JUL-2012 10:34
Date, time and analyst ID of latest file update: 24-Jul-2012 10:34 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Expected RT (minutes) : 10.502
Quant Ion : 180.00

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 11:46.
Target 3.5 esignature user ID: kel01973

VSTD050 Lancaster Laboratories Analysis Summary for GC/MS Volatiles VSTD050

Data file: /chem2/HP09953.i/12jul24a.b/bl24s23.d
Data file Sample Info. Line: VSTD050;VSDT050;2;3;LCS;;;;bl24b02;
Date, time and analyst ID of latest file update: 25-Jul-2012 04:46 sas00403

Injection date and time: **24-JUL-2012 22:13**
Instrument ID: **HP09953.i** Batch: **B122061AA**

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/bl24b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **7813**
Calibration date and time (Last Method Edit): 24-JUL-2012 17:04
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/bl24c01.d**

Bottle Code: Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5 g

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Change)	Conc. (on-column)	QC Flag
73) Fluorobenzene	4.357(-0.006)	580	96	849833 (-17)	50.00	
106) Chlorobenzene-d5	7.539(0.000)	1103	117	615116 (-17)	50.00	
137) 1,4-Dichlorobenzene-d4	9.522(0.000)	1429	152	370156 (-16)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
53) Dibromofluoromethane	(1)	3.712(0.001)	113	204132	50.609	101%		50 - 141
62) 1,2-Dichloroethane-d4	(1)	4.029(0.000)	102	43849	51.555	103%		54 - 135
90) Toluene-d8	(2)	5.988(0.000)	98	834040	50.303	101%		52 - 141
120) 4-Bromofluorobenzene	(2)	8.622(0.000)	95	298425	49.407	99%		50 - 131

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
3) Chloromethane	(1)	1.133(0.001)	50	489832	58.352	58.35			2	5
4) Vinyl Chloride	(1)	1.206(0.001)	62	437517	59.621	59.62			1	5
6) Bromomethane	(1)	1.376(0.000)	94	286365	58.796	58.80			2	5
7) Chloroethane	(1)	1.425(0.000)	64	228266	58.528	58.53			2	5
14) 1,1-Dichloroethene	(1)	1.857(0.000)	96	264166	65.359	65.36			1	5
17) Acetone	(1)	1.887(-0.000)	43	131380	111.180	111.18			7	20
23) Carbon Disulfide	(1)	2.009(0.000)	76	852461	65.853	65.85			1	5
27) Methylene Chloride	(1)	2.186(0.000)	84	300198	57.430	57.43			2	5
31) trans-1,2-Dichloroethene	(1)	2.386(0.002)	96	334000	66.741	66.74			1	5
37) 1,1-Dichloroethane	(1)	2.739(0.002)	63	601385	64.552	64.55			1	5
44) cis-1,2-Dichloroethene	(1)	3.262(0.001)	96	359478	63.053	63.05			1	5
46) 2-Butanone	(1)	3.280(0.001)	43	235569	113.163	113.16			4	10
52) Chloroform	(1)	3.560(0.001)	83	560143	58.871	58.87			1	5
55) 1,1,1-Trichloroethane	(1)	3.731(0.001)	97	511157	47.353	47.35			1	5
60) Carbon Tetrachloride	(1)	3.883(0.001)	117	425138	60.958	60.96			1	5
65) Benzene	(1)	4.078(0.001)	78	1321583	61.879	61.88			0.5	5
66) 1,2-Dichloroethane	(1)	4.102(0.001)	62	394398	59.705	59.71			1	5
75) Trichloroethene	(1)	4.716(0.001)	95	341572	60.483	60.48			1	5
78) 1,2-Dichloropropane	(1)	4.941(0.001)	63	344694	62.347	62.35			1	5
83) Bromodichloromethane	(1)	5.239(0.001)	83	375144	57.476	57.48			1	5
87) cis-1,3-Dichloropropene	(1)	5.708(0.001)	75	460484	59.347	59.35			1	5
89) 4-Methyl-2-Pentanone	(1)	5.902(0.000)	43	522280	116.227	116.23			3	10
92) Toluene	(2)	6.055(-0.000)	92	840668	59.153	59.15			1	5
93) trans-1,3-Dichloropropene	(2)	6.322(0.000)	75	391986	56.343	56.34			1	5
96) 1,1,2-Trichloroethane	(2)	6.511(0.000)	97	254736	59.263	59.26			1	5
97) Tetrachloroethene	(2)	6.645(0.000)	166	408666	61.089	61.09			1	5
100) 2-Hexanone	(2)	6.821(0.000)	58	181346	115.107	115.11			3	10
103) Dibromochloromethane	(2)	6.931(0.000)	129	280782	57.460	57.46			1	5
107) Chlorobenzene	(2)	7.569(-0.000)	112	937053	60.426	60.43			1	5
109) Ethylbenzene	(2)	7.697(-0.000)	91	1594087	59.512	59.51			1	5
110) m+p-Xylene	(2)	7.813(-0.000)	106	1279058	120.197	120.20			1	5

Digitally signed by Stephanie A. Selis on 07/25/2012 at 04:47. Target 3.5 esignature user ID: sas00403

ASX73 0257

VSTD050 Lancaster Laboratories Analysis Summary for GC/MS Volatiles VSTD050

Data file: /chem2/HP09953.i/12jul24a.b/b124s23.d Injection date and time: **24-JUL-2012 22:13**
Data file Sample Info. Line: VSTD050;VSDT050;2;3;LCS;;;;b124b02; Instrument ID: **HP09953.i** Batch: **B122061AA**
Date, time and analyst ID of latest file update: 25-Jul-2012 04:46 sas00403

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/b124b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **7813**
Calibration date and time (Last Method Edit): 24-JUL-2012 17:04
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/b124c01.d**

Bottle Code: Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5 g

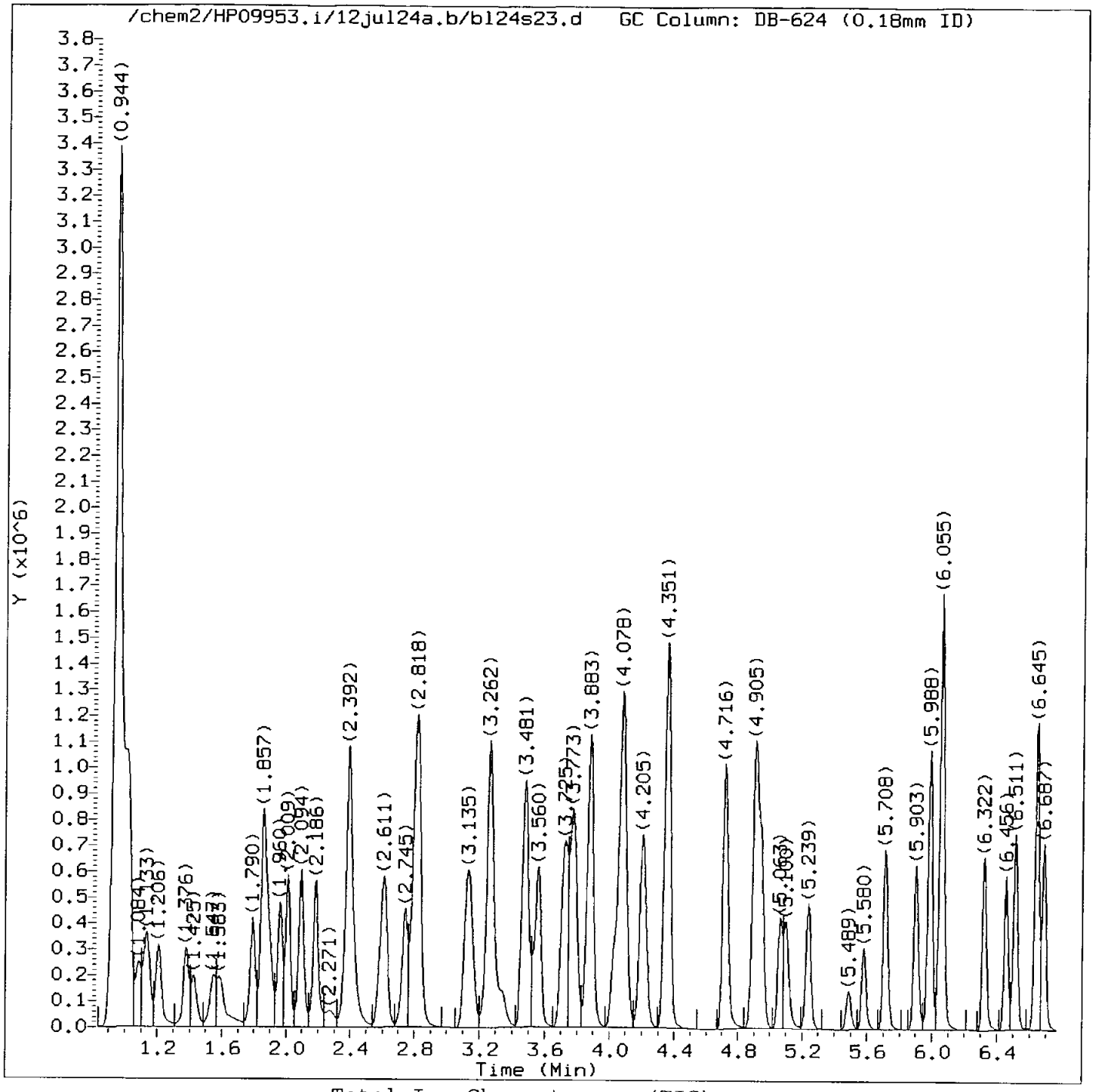
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
112) Xylene (Total)	(2)		106	1922313	180.339	180.34			1	5
113) o-Xylene	(2)	8.172(-0.000)	106	643255	60.142	60.14			1	5
115) Styrene	(2)	8.190(-0.000)	104	1013773	58.631	58.63			1	5
116) Bromoform	(2)	8.336(-0.000)	173	181569	54.325	54.32			1	5
123) 1,1,2,2-Tetrachloroethane	(3)	8.762(0.000)	83	332294	54.792	54.79			1	5

Total number of targets = 36

Digitally signed by Stephanie A. Selis on 07/25/2012 at 04:47. Target 3.5 esignature user ID: sas00403

Secondary review performed and digitally signed by Abraham H. Uysal on 07/27/2012 at 11:23. Parallax ID: ahu01800

ASX73 9258



Total Ion Chromatogram (TIC)

Target Revision 3.5

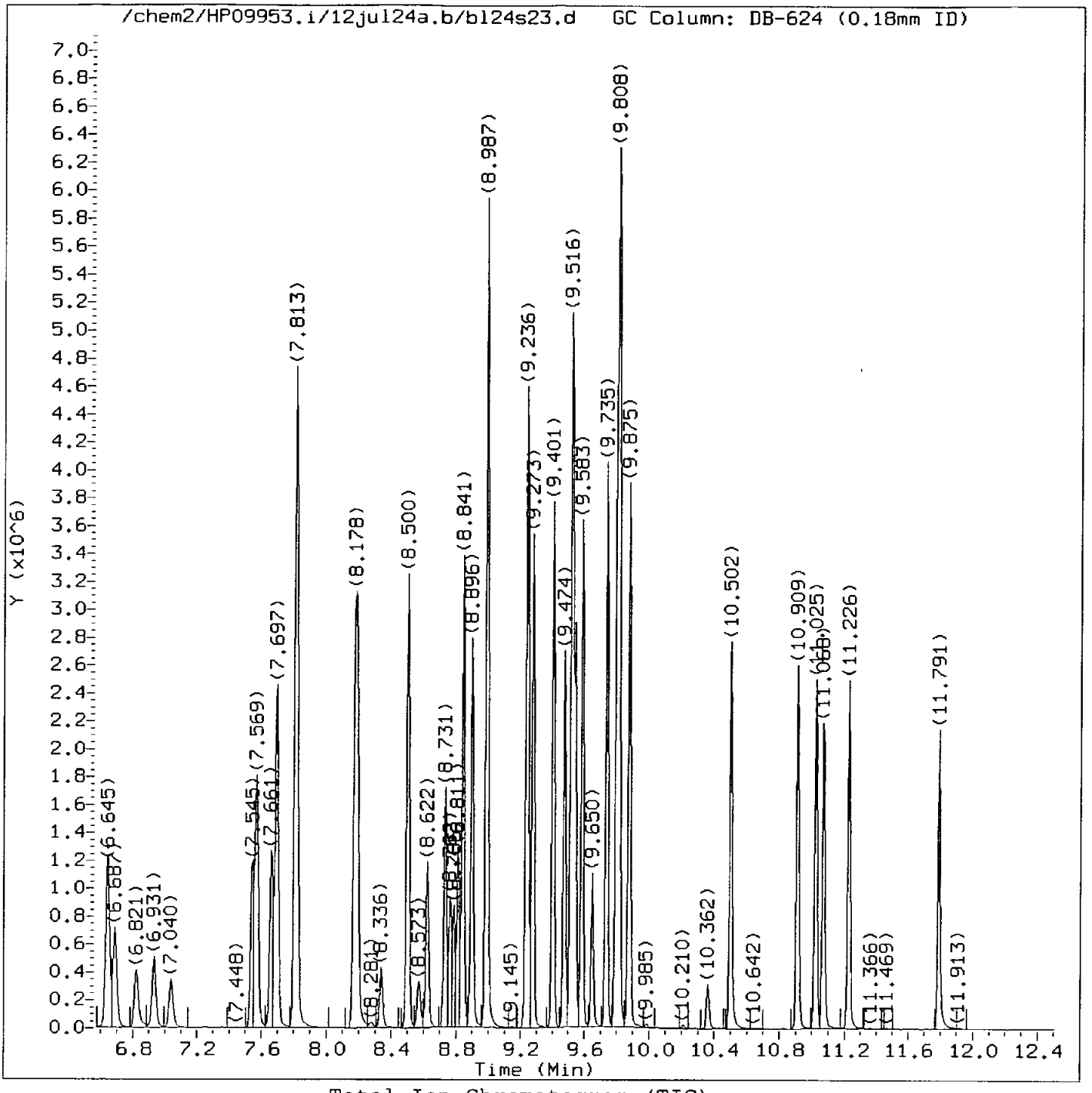
Data File: /chem2/HP09953.i/12jul24a.b/bl24s23.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 22:13 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 7813
Calibration date and time: 24-JUL-2012 17:04
Date, time and analyst ID of latest file update: 25-Jul-2012 04:46 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Digitally signed by Stephanie A. Selis
on 07/25/2012 at 04:47.
Target 3.5 esignature user ID: sas00403

ASX73 0259



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24s23.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 22:13 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 7813
Calibration date and time: 24-JUL-2012 17:04
Date, time and analyst ID of latest file update: 25-Jul-2012 04:46 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Digitally signed by Stephanie A. Selis
on 07/25/2012 at 04:47.
Target 3.5 esignature user ID: sas00403

ASX73 0260

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24s23.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 22:13 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 7813
Calibration date and time: 24-JUL-2012 17:04
Date, time and analyst ID of latest file update: 25-Jul-2012 04:46 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Chloromethane	(1)	1.133	50	489832	58.352
4) Vinyl Chloride	(1)	1.206	62	437517	59.621
6) Bromomethane	(1)	1.376	94	286365	58.796
7) Chloroethane	(1)	1.425	64	228266	58.528
14) 1,1-Dichloroethene	(1)	1.857	96	264166	65.359
17) Acetone	(1)	1.887	43	131380	111.180
23) Carbon Disulfide	(1)	2.009	76	852461	65.853
27) Methylene Chloride	(1)	2.186	84	300198	57.430
31) trans-1,2-Dichloroethene	(1)	2.386	96	334000	66.741
37) 1,1-Dichloroethane	(1)	2.739	63	601385	64.552
44) cis-1,2-Dichloroethene	(1)	3.262	96	359478	63.053
46) 2-Butanone	(1)	3.281	43	235569	113.163
52) Chloroform	(1)	3.560	83	560143	58.871
53) $Dibromofluoromethane	(1)	3.712	113	204132	50.609
55) 1,1,1-Trichloroethane	(1)	3.731	97	511157	47.353
60) Carbon Tetrachloride	(1)	3.883	117	425138	60.958
62) $1,2-Dichloroethane-d4	(1)	4.029	102	43849	51.555
65) Benzene	(1)	4.078	78	1321583	61.879
66) 1,2-Dichloroethane	(1)	4.102	62	394398	59.705
73) *Fluorobenzene	(1)	4.357	96	849833	50.000
75) Trichloroethene	(1)	4.716	95	341572	60.483
78) 1,2-Dichloropropane	(1)	4.941	63	344694	62.347
83) Bromodichloromethane	(1)	5.239	83	375144	57.476
87) cis-1,3-Dichloropropene	(1)	5.708	75	460484	59.347
89) 4-Methyl-2-Pentanone	(1)	5.903	43	522280	116.227
90) $Toluene-d8	(2)	5.988	98	834040	50.303
92) Toluene	(2)	6.055	92	840668	59.153
93) trans-1,3-Dichloropropene	(2)	6.322	75	391986	56.343
96) 1,1,2-Trichloroethane	(2)	6.511	97	254736	59.263
97) Tetrachloroethene	(2)	6.645	166	408666	61.089
100) 2-Hexanone	(2)	6.821	58	181346	115.107
103) Dibromochloromethane	(2)	6.931	129	280782	57.460
106) *Chlorobenzene-d5	(2)	7.539	117	615116	50.000
107) Chlorobenzene	(2)	7.569	112	937053	60.426
109) Ethylbenzene	(2)	7.697	91	1594087	59.512
110) m+p-Xylene	(2)	7.813	106	1279058	120.197
113) o-Xylene	(2)	8.172	106	643255	60.142
112) Xylene (Total)	(2)		106	1922313	180.339

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Stephanie A. Selis
on 07/25/2012 at 04:47.
Target 3.5 esignature user ID: sas00403

ASX73 9261

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24s23.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 22:13 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 7813
Calibration date and time: 24-JUL-2012 17:04
Date, time and analyst ID of latest file update: 25-Jul-2012 04:46 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
115) Styrene	(2)	8.190	104	1013773	58.631
116) Bromoform	(2)	8.336	173	181569	54.325
120)$4-Bromofluorobenzene	(2)	8.622	95	298425	49.407
123) 1,1,2,2-Tetrachloroethane	(3)	8.762	83	332294	54.792
137)*1,4-Dichlorobenzene-d4	(3)	9.522	152	370156	50.000

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Stephanie A. Selis
on 07/25/2012 at 04:47.
Target 3.5 esignature user ID: sas00403

ASX73 0262

Data File: /chem/SH08363.i/12may17c.b/ty17t03.d

Date : 17-MAY-2012 13:06

Client ID: BFBMAR28-12

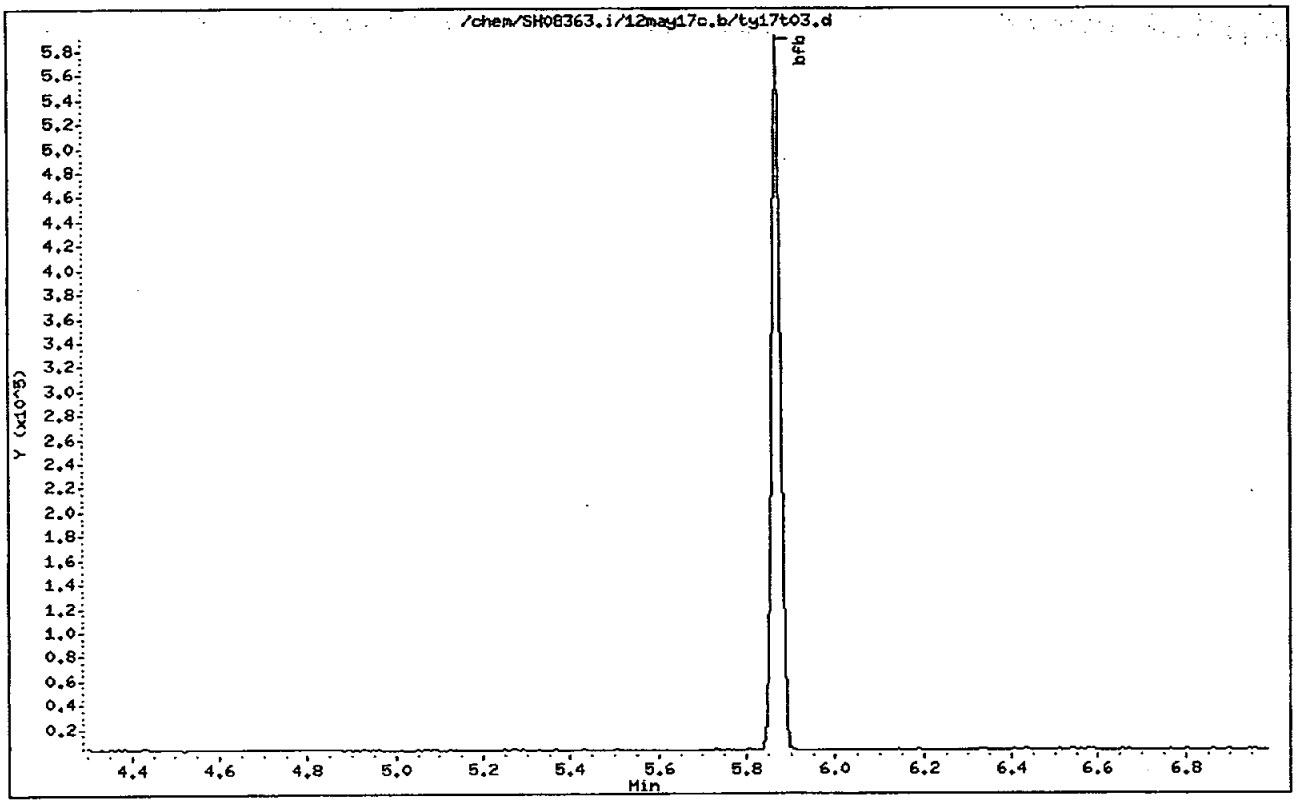
Instrument: SH08363.i

Sample Info: BFBMAR28-12;50NG BFB;

Operator: LCP00895

Column phase: Rxi-624Sil MS

Column diameter: 0.25



Digitally signed by Linda C. Pape on 05/18/2012 at 07:08.
Target 3.5 esignature user ID: lcp00895

Data File: /chem/SH08363.i/12may17c.b/ty17t03.d

Date : 17-MAY-2012 13:06

Client ID: BFBMAR28-12

Instrument: SH08363.i

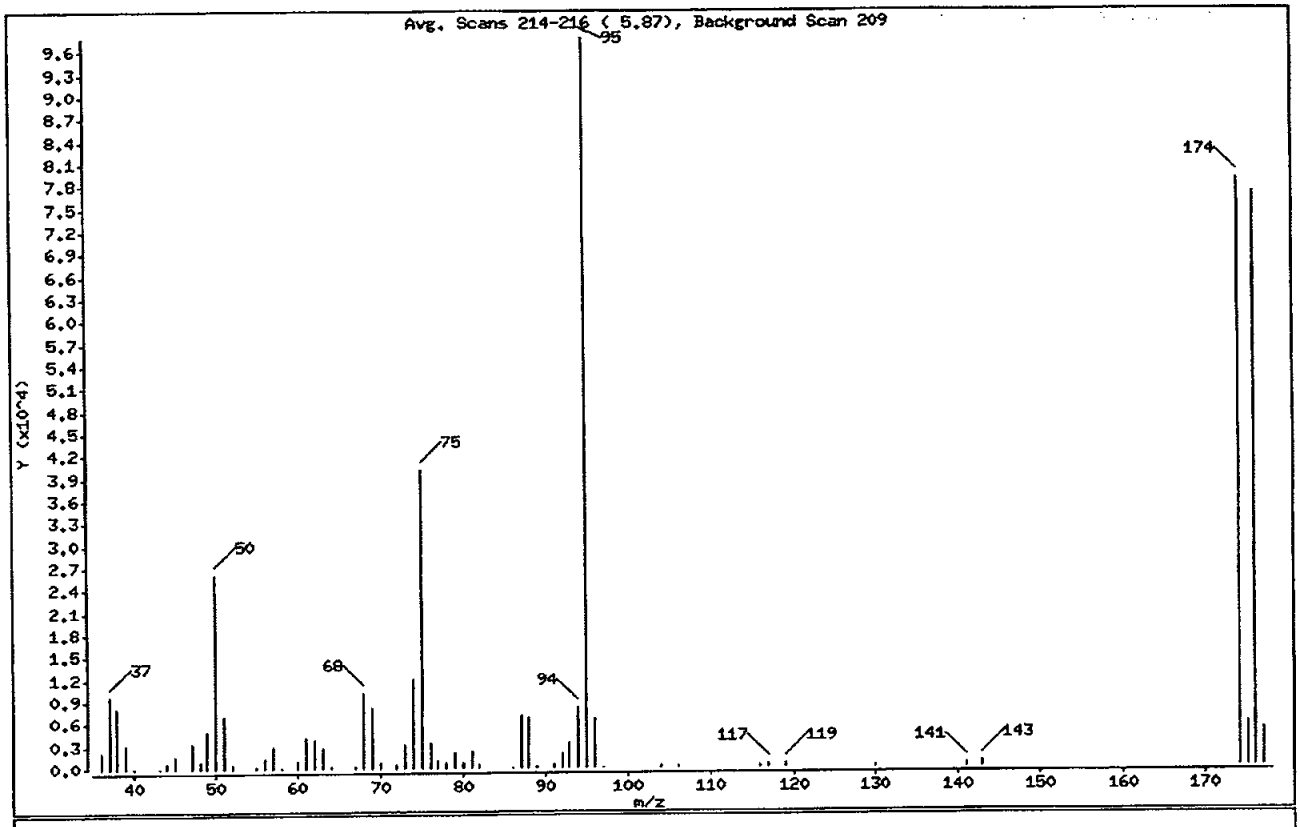
Sample Info: BFBMAR28-12;50NG BFB;

Operator: LCP00895

Column phase: Rxi-624Sil MS

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.64
75	30.00 - 60.00% of mass 95	40.82
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	80.48
175	5.00 - 9.00% of mass 174	5.86 (7.29)
176	95.00 - 101.00% of mass 174	78.71 (97.80)
177	5.00 - 9.00% of mass 176	4.96 (6.30)

Digitally signed by Linda C. Pape on 05/18/2012 at 07:08.
Target 3.5 esignature user ID: lcp00895

Data File: /chem/SH08363.i/12may17c.b/ty17t03.d

Date : 17-MAY-2012 13:06

Client ID: BFBMAR28-12

Instrument: SH08363.i

Sample Info: BFBMAR28-12;50NG BFB;

Operator: LCP00895

Column phase: Rxi-624Sil MS

Column diameter: 0.25

Data File: ty17t03.d

Spectrum: Avg. Scans 214-216 (5.87), Background Scan 209

Location of Maximum: 95.00

Number of points: 61

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2238	57.00	2962	77.00	868	97.00	99
37.00	9710	58.00	88	78.00	651	104.00	269
38.00	8101	60.00	963	79.00	2129	106.00	221
39.00	3185	61.00	4000	80.00	775	116.00	232
40.00	58	62.00	3806	81.00	2240	117.00	500
43.00	88	63.00	2649	82.00	499	119.00	399
44.00	751	64.00	195	86.00	106	130.00	139
45.00	1480	67.00	227	87.00	6983	141.00	500
47.00	3362	68.00	10081	88.00	6755	143.00	613
48.00	987	69.00	8197	89.00	197	174.00	78752
49.00	6010	70.00	654	91.00	382	175.00	5738
50.00	26072	72.00	507	92.00	1788	176.00	77016
51.00	7070	73.00	3128	93.00	3298	177.00	4849
52.00	403	74.00	11924	94.00	8066		
55.00	323	75.00	39944	95.00	97856		
56.00	1422	76.00	3357	96.00	6500		

Digitally signed by Linda C. Pape on 05/18/2012 at 07:08.
Target 3.5 esignature user ID: lcp00895

Data File: /chem/SH08363.i/12may18a.b/ty18t01.d

Date : 18-MAY-2012 11:10

Client ID: BFBMAR28-12

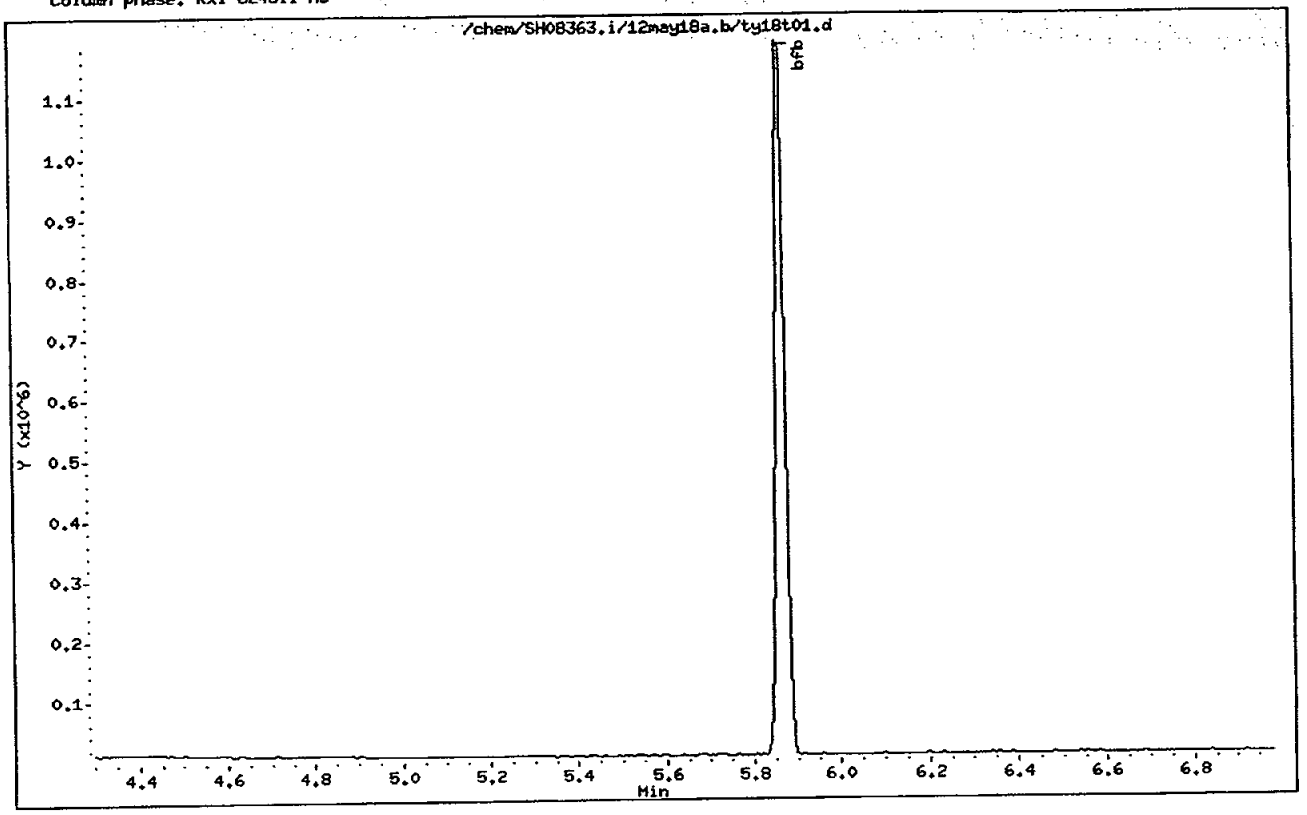
Instrument: SH08363.i

Sample Info: BFBMAR28-12;50NG BFB;

Operator: LCP00895

Column phase: Rxi-624Sil MS

Column diameter: 0.25



Digitally signed by Linda C. Pape on 05/18/2012 at 12:45.
Target 3.5 esignature user ID: lcp00895

Data File: /chem/SH08363.i/12may18a.b/ty18t01.d

Date : 18-MAY-2012 11:10

Client ID: BFBMAR28-12

Instrument: SH08363.i

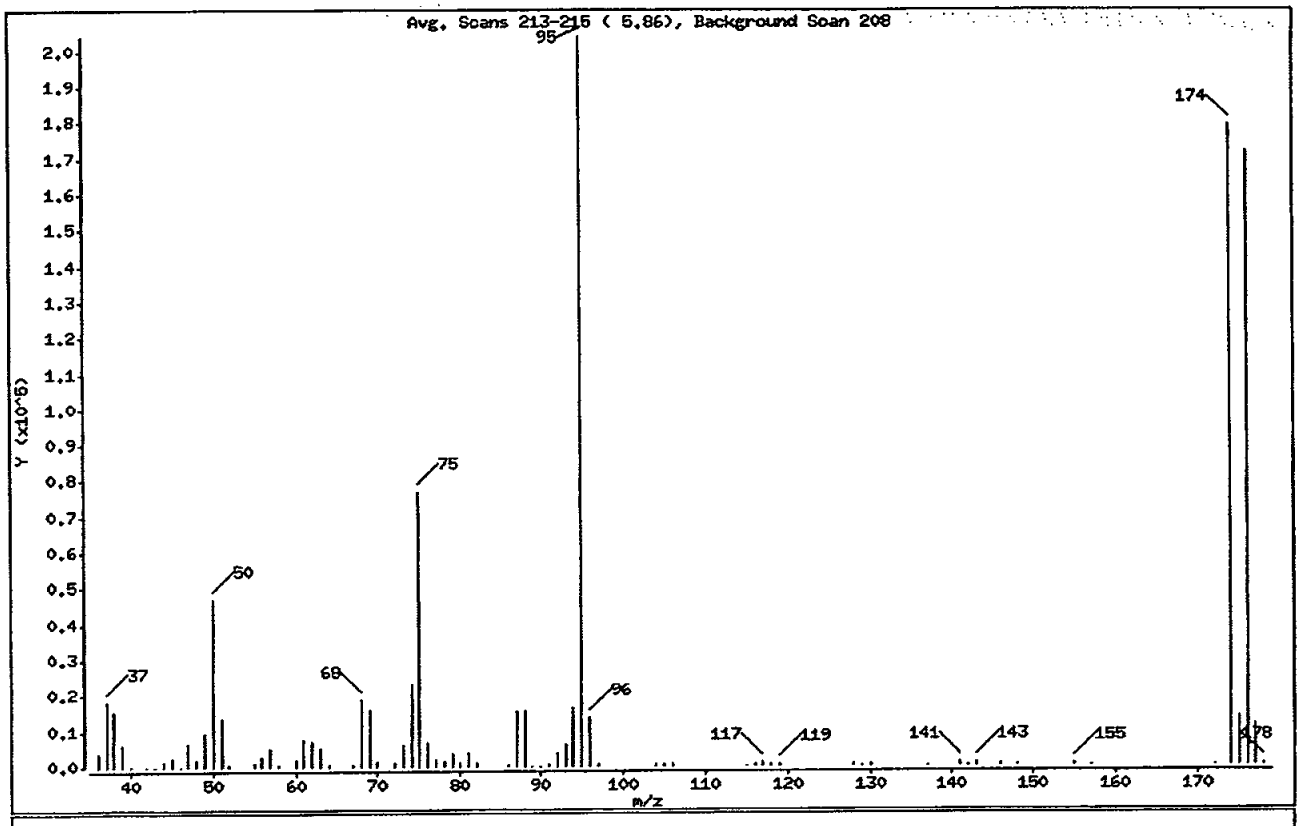
Sample Info: BFBMAR28-12;50NG BFB;

Operator: LCP00895

Column phase: Rxi-624Sil MS

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.90
75	30.00 - 60.00% of mass 95	37.68
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	87.72
175	5.00 - 9.00% of mass 174	6.74 (7.69)
176	95.00 - 101.00% of mass 174	84.04 (95.81)
177	5.00 - 9.00% of mass 176	5.46 (6.50)

Digitally signed by Linda C. Pape on 05/18/2012 at 12:45.
Target 3.5 esignature user ID: lcp00895

Data File: /chem/SH08363.i/12may18a.b/ty18t01.d

Date : 18-MAY-2012 11:10

Client ID: BFBMAR28-12

Instrument: SH08363.i

Sample Info: BFBMAR28-12;50NG BFB;

Operator: LCP00895

Column phase: Rxi-624Sil MS

Column diameter: 0.25

Data File: ty18t01.d

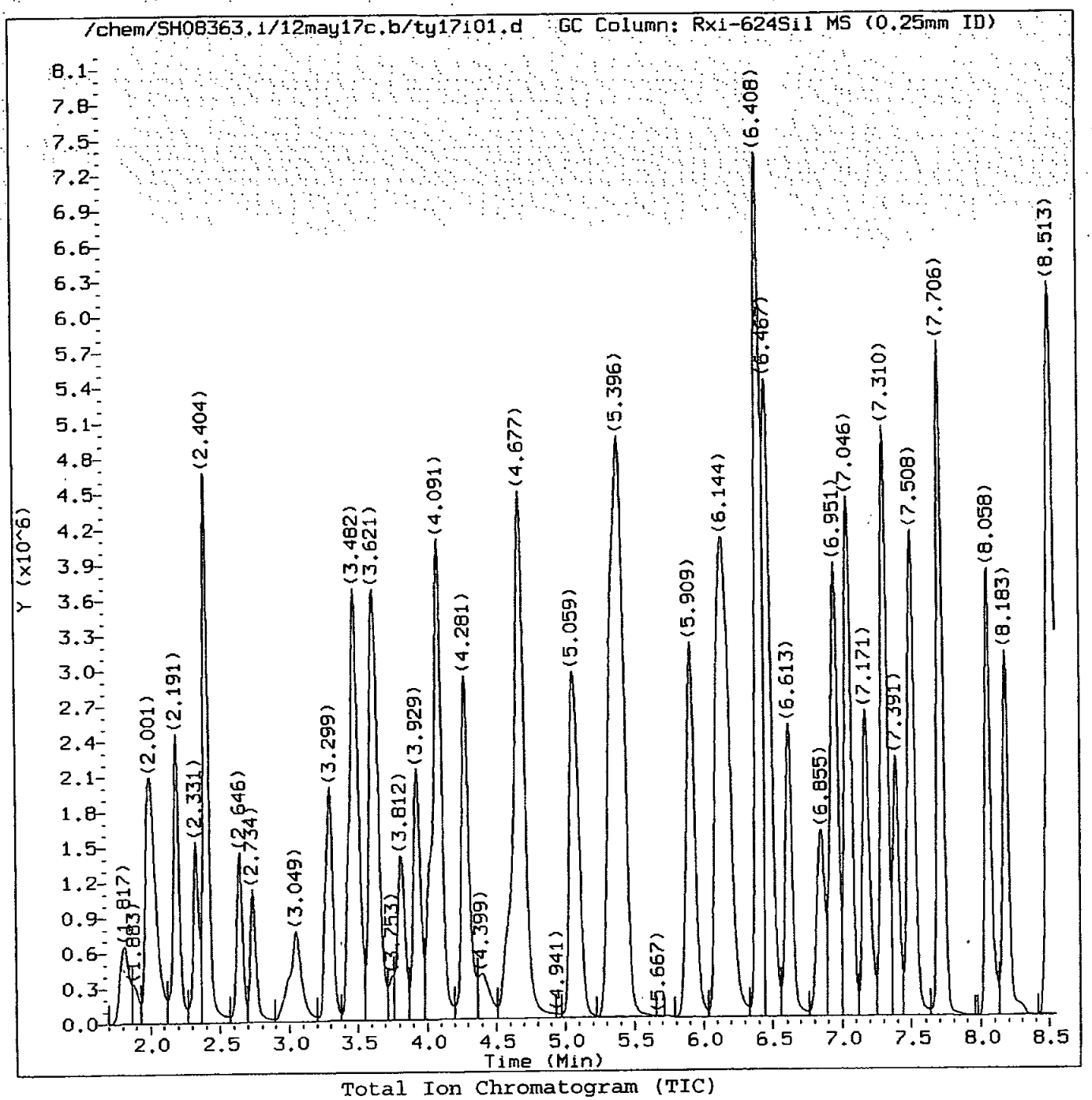
Spectrum: Avg. Scans 213-215 (5.86), Background Scan 208

Location of Maximum: 95.00

Number of points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3658	60.00	1666	86.00	272	128.00	598
37.00	18400	61.00	7664	87.00	15640	129.00	180
38.00	15424	62.00	7113	88.00	15615	130.00	461
39.00	5923	63.00	5351	89.00	178	137.00	139
40.00	198	64.00	592	90.00	110	141.00	930
42.00	84	67.00	455	91.00	527	142.00	136
43.00	185	68.00	18920	92.00	3598	143.00	784
44.00	1304	69.00	15953	93.00	6072	146.00	267
45.00	2522	70.00	1474	94.00	16600	148.00	315
46.00	164	72.00	746	95.00	204096	155.00	343
47.00	6556	73.00	6081	96.00	13557	157.00	138
48.00	1986	74.00	23088	97.00	469	172.00	154
49.00	9216	75.00	76920	104.00	547	174.00	179008
50.00	46744	76.00	6679	105.00	267	175.00	13765
51.00	13395	77.00	1660	106.00	600	176.00	171520
52.00	576	78.00	1389	115.00	108	177.00	11146
55.00	706	79.00	3591	116.00	569	178.00	313
56.00	2685	80.00	1148	117.00	764		
57.00	5044	81.00	3618	118.00	543		
58.00	250	82.00	852	119.00	655		

Digitally signed by Linda C. Pape on 05/18/2012 at 12:45.
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i01.d
Injection date and time: 17-MAY-2012 13:35

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

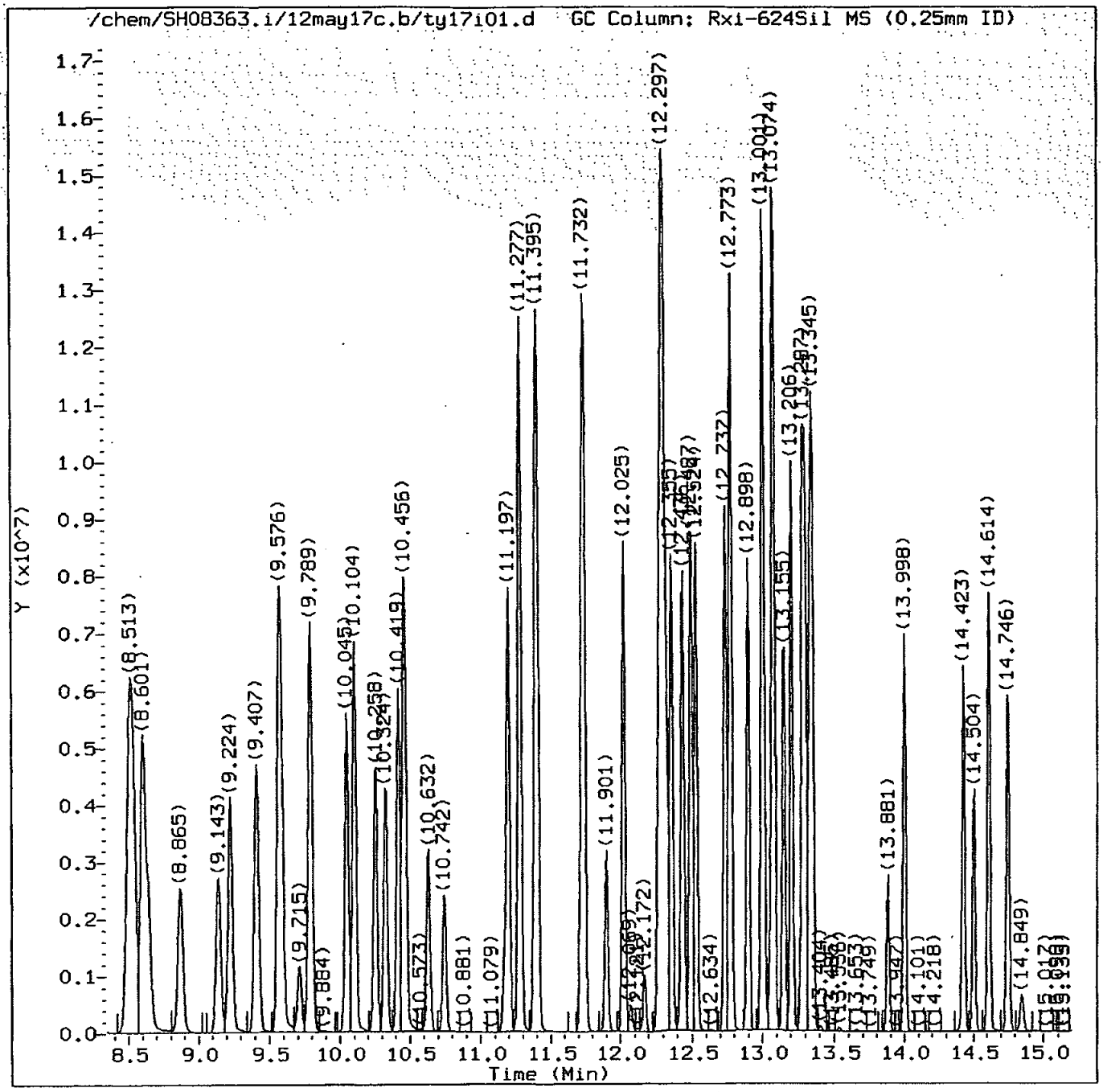
Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300

Lab Sample ID: VSTD300

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:28.
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i01.d
Injection date and time: 17-MAY-2012 13:35

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300

Lab Sample ID: VSTD300

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:28.
Target 3.5 esignature user ID: lcp00895

ASX73 9278

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.023	85	2631052	338.570
2) Chloromethane	(1)	2.191	50	3973001	294.415
4) Vinyl Chloride	(1)	2.331	62	2568970	297.597
7) Bromomethane	(1)	2.646	94	1447248	285.929
8) Chloroethane	(1)	2.734	64	1343992	292.377
13) Trichlorofluoromethane	(1)	3.042	101	1634606	323.699
15) Ethyl Ether	(1)	3.299	59	1996487	357.585
17) Acrolein	(4)	3.482	56	7977151	3216.987
18) 1,1-Dichloroethene	(1)	3.614	96	1156118	317.865
19) Freon 113	(1)	3.636	101	1244561	343.053
21) Acetone	(1)	3.643	58	601574	507.512
23) 2-Propanol	(4)	3.753	45	1233329	1720.050
22) Methyl Iodide	(1)	3.819	142	2302936	318.428
24) Carbon Disulfide	(1)	3.929	76	5013639	335.707
26) Methyl Acetate	(1)	4.025	43	4648823	303.844
25) Allyl Chloride	(1)	4.091	41	5428130	333.436
27) Methylene Chloride	(1)	4.281	84	1605570	292.646
28)*t-Butyl Alcohol-d10	(4)	4.289	65	209704	250.000
29) t-Butyl Alcohol	(4)	4.406	59	1416923M	1772.273
30) Acrylonitrile	(1)	4.604	53	1547539	277.532
31) Methyl Tertiary Butyl Ether	(1)	4.670	73	4468000	318.113
32) trans-1,2-Dichloroethene	(1)	4.685	96	1354827	316.359
34) n-Hexane	(1)	5.066	57	2738052	349.412
36) 1,1-Dichloroethane	(1)	5.330	63	3292063	322.781
41) 1,2-Dichloroethene (total)	(1)		96	2889856	636.766
37) di-Isopropyl Ether	(1)	5.381	45	10179138	312.750
40) 2-Chloro-1,3-Butadiene	(1)	5.425	53	3234135	341.972
42) Ethyl t-Butyl Ether	(1)	5.909	59	5937914	313.776
45) 2-Butanone	(1)	6.100	43	6082226	577.820
44) cis-1,2-Dichloroethene	(1)	6.144	96	1535029	320.407
43) 2,2-Dichloropropane	(1)	6.173	77	1733531	336.658
46) Propionitrile	(4)	6.195	54	3023315	1696.273
47) Methacrylonitrile	(1)	6.408	67	2989471	768.320
49) Bromochloromethane	(1)	6.474	128	779694	308.521
50) Tetrahydrofuran	(4)	6.474	71	805171	668.263
52) Chloroform	(1)	6.621	83	2707484	323.832
53)$Dibromofluoromethane(mz111)	(1)	6.826	111	240409	51.959
54)$Dibromofluoromethane	(1)	6.833	113	235271	51.468

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:28.
Target 3.5 esignature user ID: lcp00895

ASX73 0271

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i01.d
Injection date and time: 17-MAY-2012 13:35

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300

Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	6.855	97	1612351	343.157
58) Cyclohexane	(1)	6.951	56	3433612	339.156
57) Cyclohexane(mz84)	(1)	6.951	84	1912357M	337.854
56) Cyclohexane(mz69)	(1)	6.951	69	822381	344.963
59) 1,1-Dichloropropene	(1)	7.039	75	2115317	339.528
60) Carbon Tetrachloride	(1)	7.061	117	1332181	367.289
61) Isobutyl Alcohol	(4)	7.171	41	2514425	4035.957
64)$1,2-Dichloroethane-d4(mz65)	(1)	7.288	65	299068	52.489
62)$1,2-Dichloroethane-d4	(1)	7.288	102	56368	49.918
63)$1,2-Dichloroethane-d4(mz104)	(1)	7.295	104	36581	50.585
65) Benzene	(1)	7.310	78	5852425	316.538
66) 1,2-Dichloroethane	(1)	7.391	62	2350555	331.395
67) 1,2-Dichloroethane(mz98)	(1)	7.391	98	184830A	301.150
68) t-Amyl Methyl Ether	(1)	7.501	73	4517173	318.910
69) n-Heptane	(1)	7.706	43	4497159	375.154
70)*Fluorobenzene	(1)	7.713	96	817959	50.000
73) n-Butanol	(4)	8.058	56	3005220	8211.398
74) Trichloroethene	(1)	8.183	95	1396124	324.853
76) Methylcyclohexane	(1)	8.498	83	2189850	339.630
79) 1,2-Dichloropropane	(1)	8.535	63	1956612	317.844
81) Methyl Methacrylate	(1)	8.593	69	1798835	327.384
82) 1,4-Dioxane	(4)	8.608	88	214623M	4024.553
80) Dibromomethane	(1)	8.637	93	1216055	321.192
83) Bromodichloromethane	(1)	8.865	83	2054599	360.715
84) 2-Nitropropane	(1)	9.143	41	2326805	706.298
85) 2-Chloroethyl Vinyl Ether	(1)	9.224	63	1770413	322.423
87) cis-1,3-Dichloropropene	(1)	9.407	75	2704529	357.082
88) 4-Methyl-2-Pentanone	(1)	9.576	58	3309797	571.912
90)$Toluene-d8	(2)	9.708	98	740765	48.233
91)$Toluene-d8(mz100)	(2)	9.715	100	507562	48.783
93) Toluene	(2)	9.789	92	3297812	315.025
96) trans-1,3-Dichloropropene	(2)	10.045	75	2609618	361.282
97) Ethyl Methacrylate	(2)	10.104	69	2947577	321.481
98) 1,1,2-Trichloroethane	(2)	10.258	97	1422271	307.782
99) Tetrachloroethene	(2)	10.324	166	1368145	333.547
100) 1,3-Dichloropropane	(2)	10.419	76	2836415	317.320
101) 2-Hexanone	(2)	10.456	58	3684114	536.520
103) Dibromochloromethane	(2)	10.632	129	1600281	368.309

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 05/18/2012 at 07:28.
Target 3.5 esignature user ID: lcp00895

ASX73 8272

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
104) 1,2-Dibromoethane	(2)	10.742	107	1727141	326.691
107)*Chlorobenzene-d5	(2)	11.167	117	553764	50.000
108) Chlorobenzene	(2)	11.197	112	3456610	317.914
114) Ethylbenzene	(2)	11.277	106	1730323	315.151
111) 1,1,1,2-Tetrachloroethane	(2)	11.277	131	1176135	343.924
116) Xylene (Total)	(2)		106	6327397	1199.563
115) m+p-Xylene	(2)	11.395	106	4237405A	883.699
117) o-Xylene	(2)	11.725	106	2089992	315.864
119) Styrene	(2)	11.739	104	3661932	316.036
120) Bromoform	(2)	11.901	173	1381849	300.076
121) Isopropylbenzene	(2)	12.025	105	4371218	283.922
124)$4-Bromofluorobenzene	(2)	12.172	95	315375	49.656
125)$4-Bromofluorobenzene(mz174)	(2)	12.172	174	227473	49.146
126) 1,1,2,2-Tetrachloroethane	(3)	12.275	83	2917026	310.344
127) Bromobenzene	(3)	12.289	156	1526999	319.347
129) trans-1,4-Dichloro-2-Butene	(3)	12.304	53	2443380	745.608
128) 1,2,3-Trichloropropane	(3)	12.319	110	624867	318.323
130) n-Propylbenzene	(3)	12.355	91	5013422	239.908
131) 2-Chlorotoluene	(3)	12.429	126	1290501	320.976
132) 1,3,5-Trimethylbenzene	(3)	12.487	105	3851688	292.663
133) 4-Chlorotoluene	(3)	12.524	126	1413686	330.186
134) tert-Butylbenzene	(3)	12.729	134	909234	341.145
135) Pentachloroethane	(3)	12.766	167	883023	326.294
137) 1,2,4-Trimethylbenzene	(3)	12.773	105	3929519	287.522
138) sec-Butylbenzene	(3)	12.898	105	4374490	274.550
139) 1,3-Dichlorobenzene	(3)	12.993	146	2616372	317.111
140) p-Isopropyltoluene	(3)	13.008	119	3872287	304.433
141)*1,4-Dichlorobenzene-d4	(3)	13.052	152	278465	50.000
142) 1,4-Dichlorobenzene	(3)	13.074	146	2670618	312.987
143) 1,2,3-Trimethylbenzene	(3)	13.081	105	3923505	266.116
144) Benzyl Chloride	(3)	13.155	91	3793542	313.365
145) 1,3-Diethylbenzene	(3)	13.206	119	2439844	305.122
146) 1,4-Diethylbenzene	(3)	13.279	119	2538673	304.251
147) n-Butylbenzene	(3)	13.301	92	2820141	321.367
148) 1,2-Dichlorobenzene	(3)	13.331	146	2507145	315.062
149) 1,2-Diethylbenzene	(3)	13.345	119	2015917	300.140
151) 1,2-Dibromo-3-Chloropropane	(3)	13.881	75	521184	272.605
153) 1,3,5-Trichlorobenzene	(3)	13.998	180	1827788	328.974

A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: lcp00895

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
154) 1,2,4-Trichlorobenzene	(3)	14.423	180	1645514	335.805
155) Hexachlorobutadiene	(3)	14.497	225	732809	347.626
156) Naphthalene	(3)	14.614	128	4431400	299.156
157) 1,2,3-Trichlorobenzene	(3)	14.746	180	1611465	348.189

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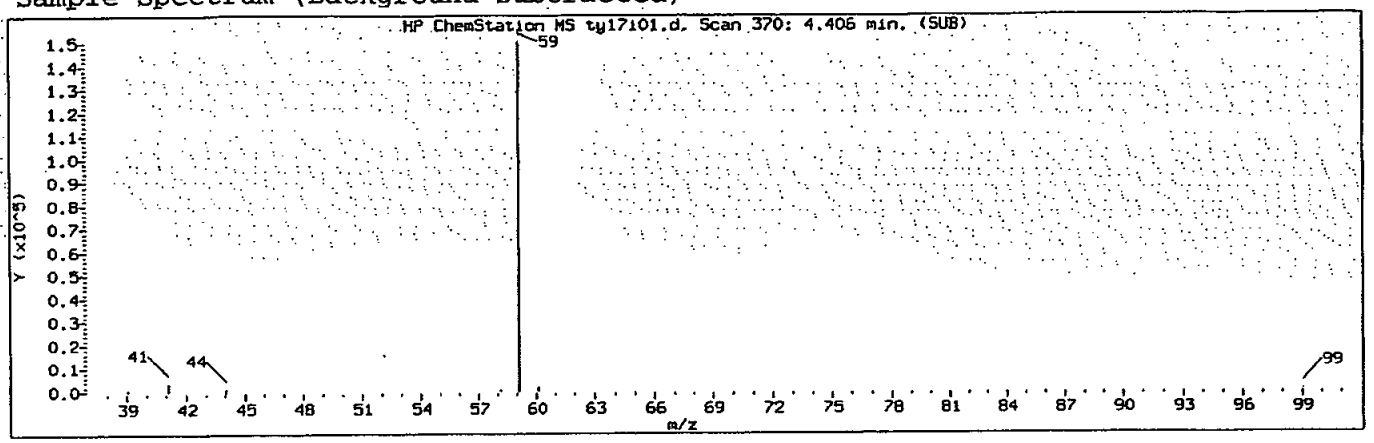
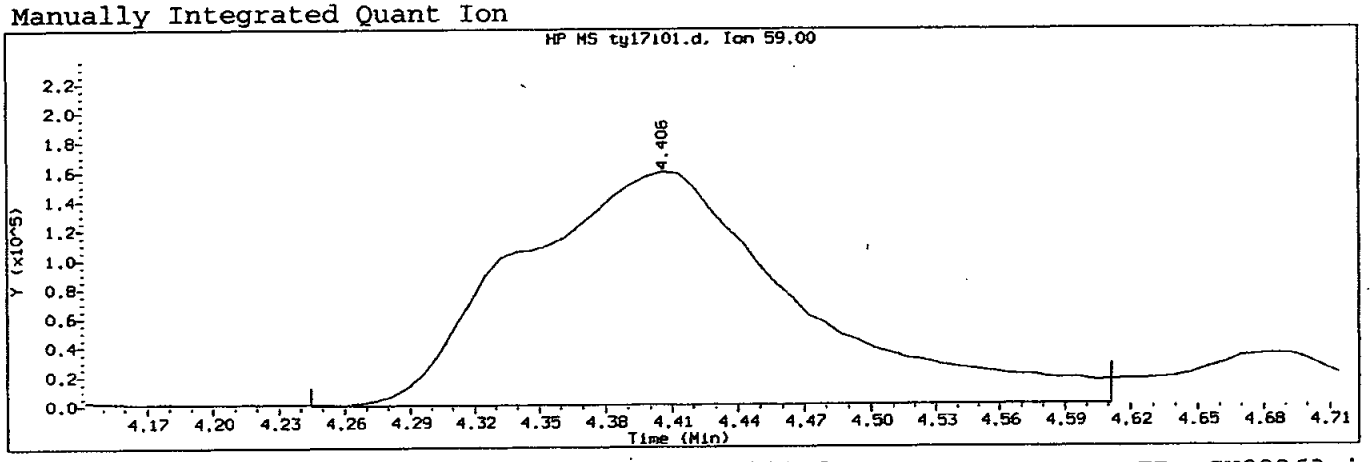
on 05/18/2012 at 07:28.
Target 3.5 esignature user ID: lcp00895

ASX73 9274

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

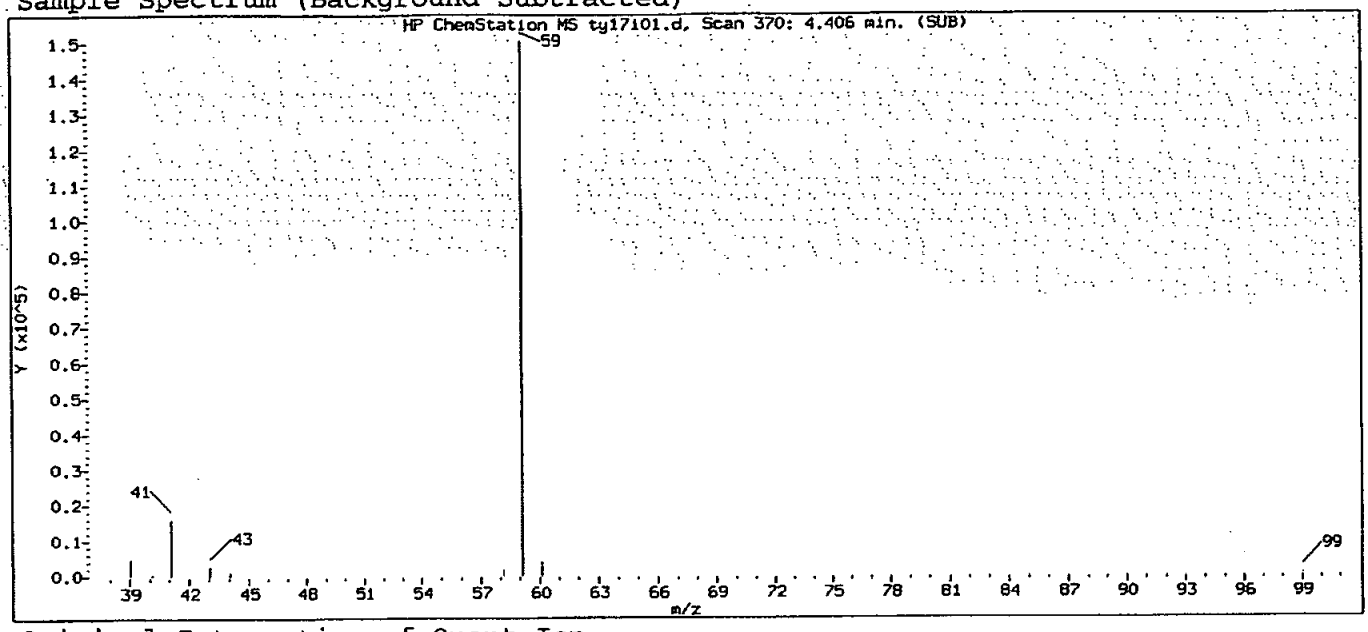
Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 370
Retention Time (minutes): 4.406
Quant Ion : 59.00
Area (flag) : 1416923M
On-Column Amount (ng) : 1772.2728
Integration start scan : 347 Integration stop scan: 397
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

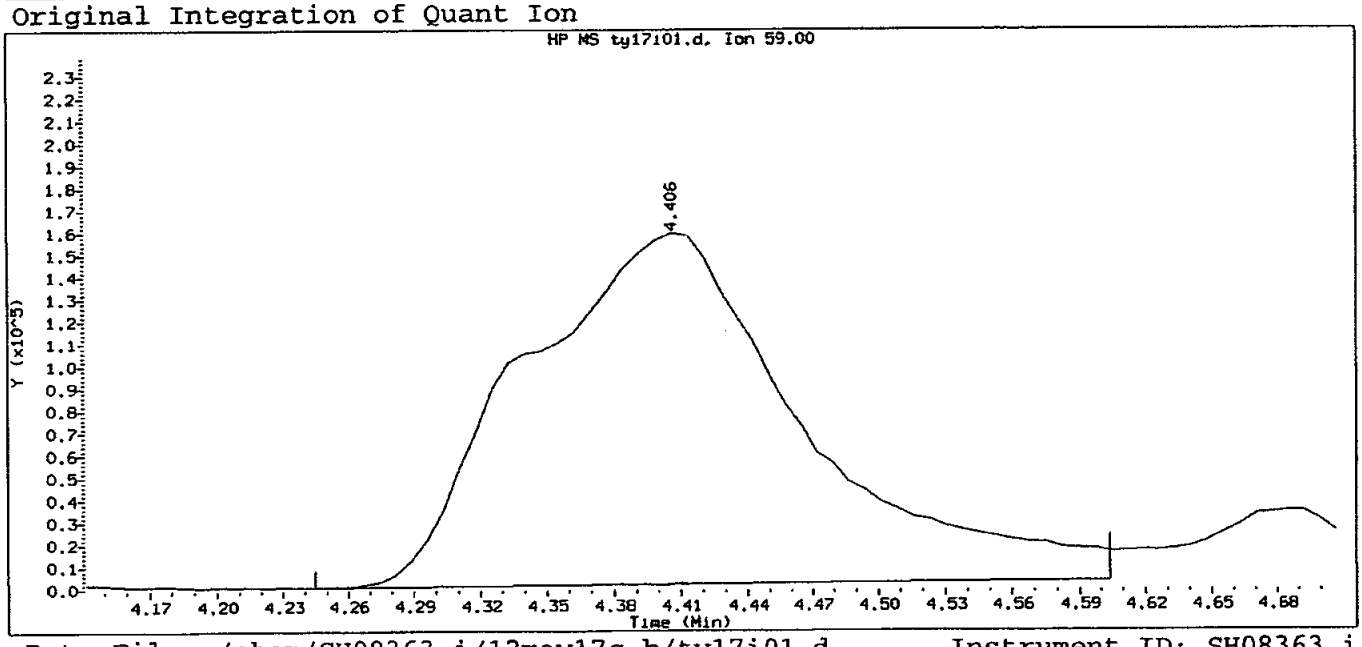
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:28. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 370		
Retention Time (minutes)	: 4.406		
Quant Ion	: 59.00		
Area	: 1361424		
On-column Amount (ng)	: 1916.4003		
Integration start scan	: 347	Integration stop scan:	396
Y at integration start	: 777	Y at integration end:	3350

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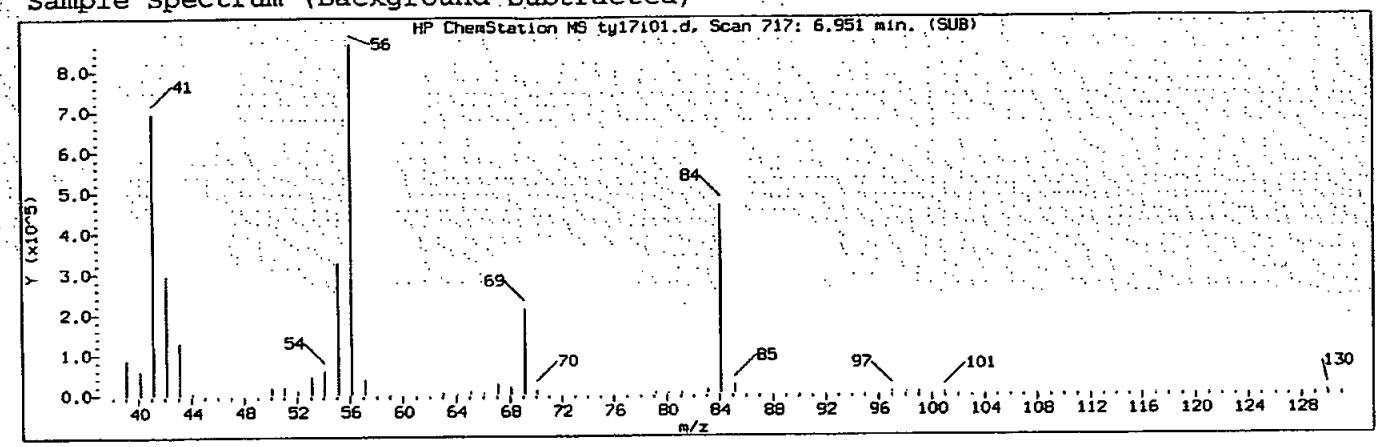
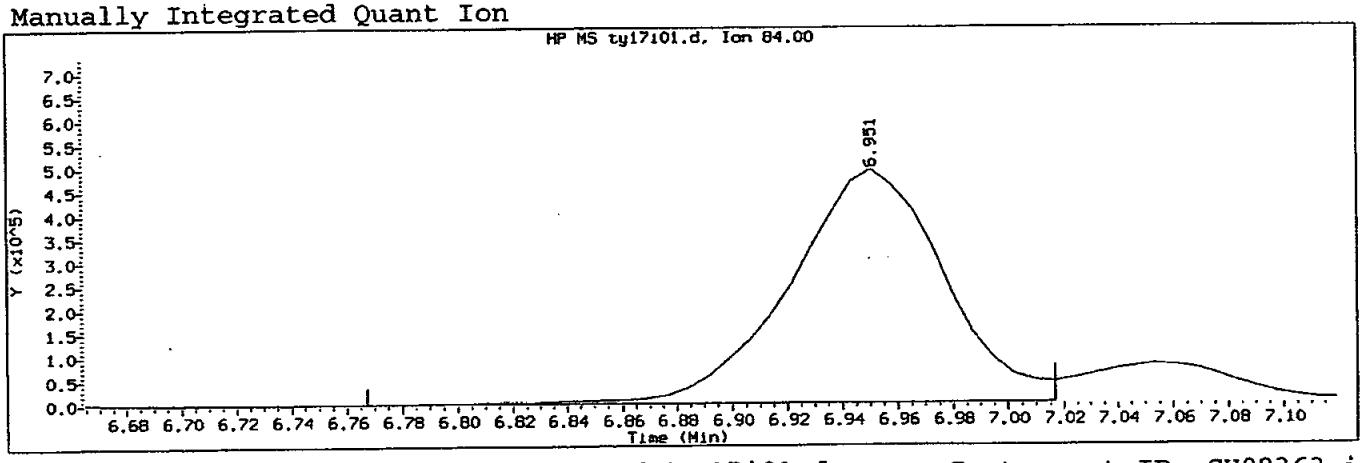
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 57		
Compound Name	: Cyclohexane(mz84)		
Scan Number	: 717		
Retention Time (minutes)	: 6.951		
Quant Ion	: 84.00		
Area (flag)	: 1912357M		
On-Column Amount (ng)	: 337.8536		
Integration start scan	: 691	Integration stop scan:	725
Y at integration start	: 0	Y at integration end:	0

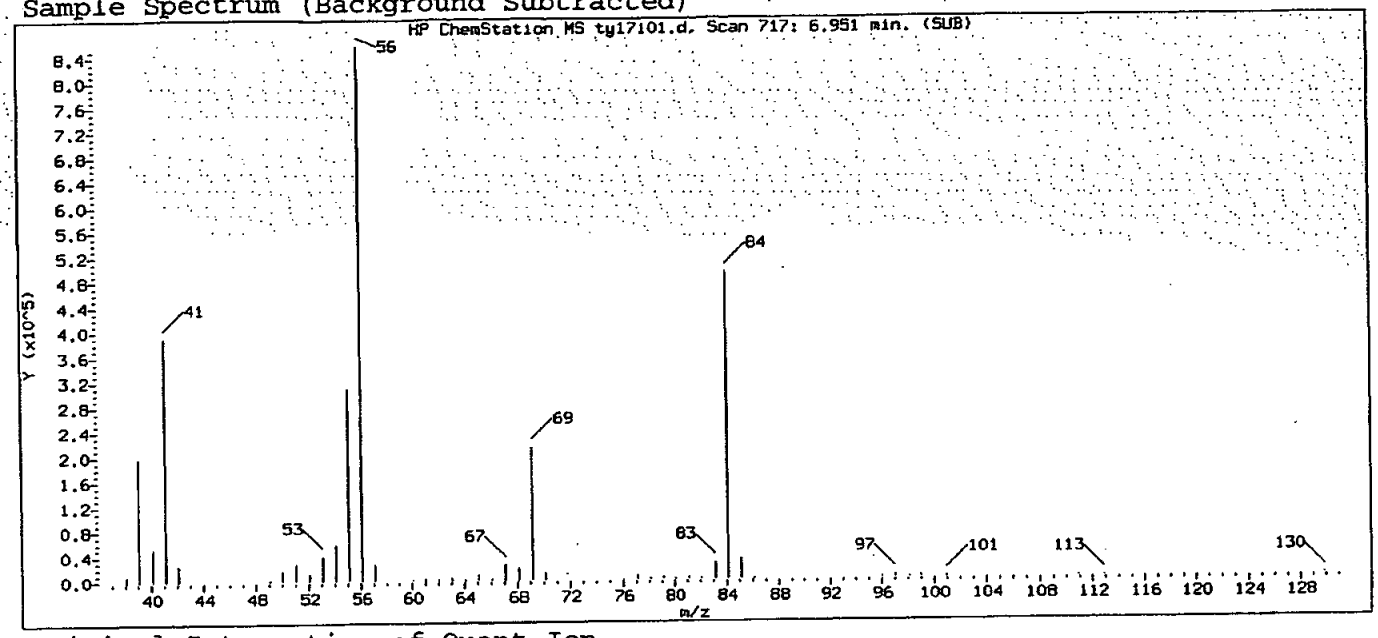
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:28. Target 3.5 esignature user ID: lcp00895

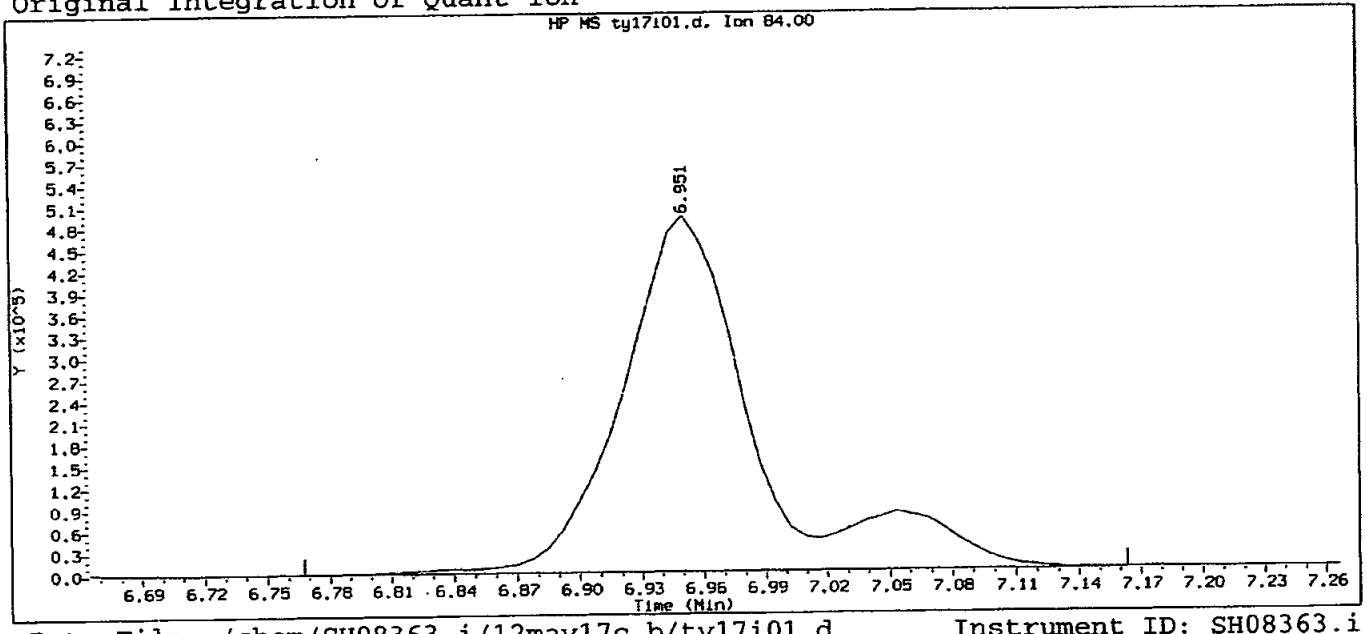
GC/MS audit/management approval: 5/21/12

ASX73 0277

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 57		
Compound Name	: Cyclohexane(mz84)		
Scan Number	: 717		
Retention Time (minutes)	: 6.951		
Quant Ion	: 84.00		
Area	: 2209263		
On-column Amount (ng)	: 360.3499		
Integration start scan	: 691	Integration stop scan:	745
Y at integration start	: 0	Y at integration end:	0

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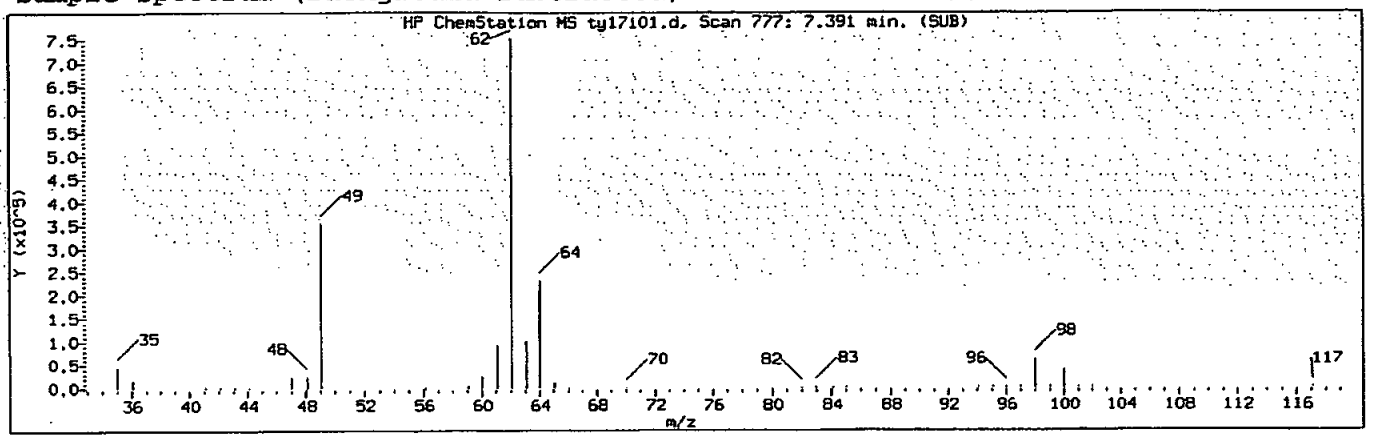
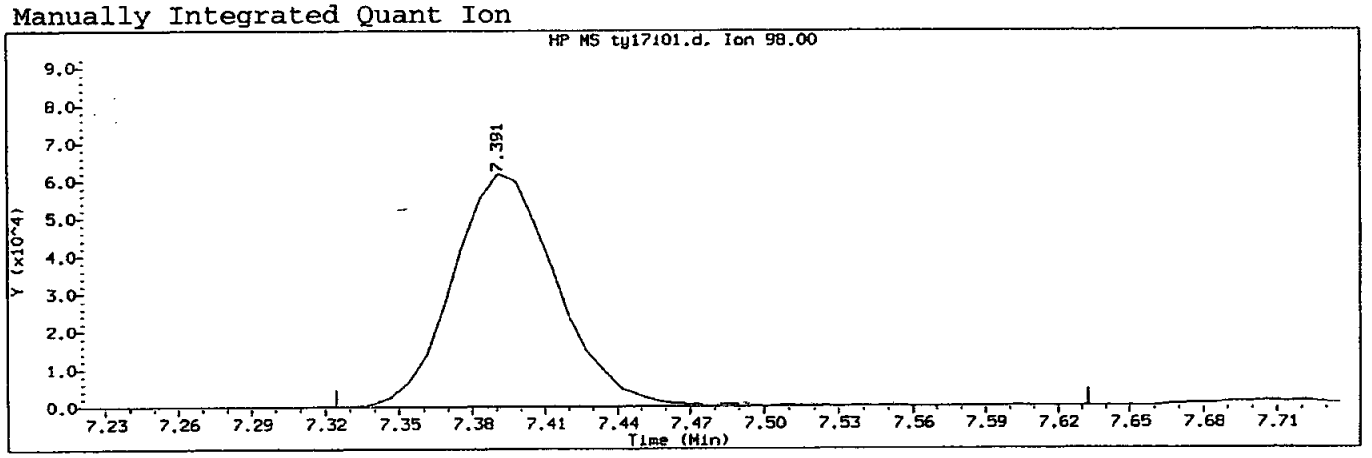
Target 3.5 esignature user ID: lcp00895

ASX73 8278

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 67		
Compound Name	: 1,2-Dichloroethane(mz98)		
Scan Number	: 777		
Retention Time (minutes)	: 7.391		
Quant Ion	: 98.00		
Area (flag)	: 184830A		
On-Column Amount (ng)	: 301.1496		
Integration start scan	: 767	Integration stop scan:	809
Y at integration start	: 0	Y at integration end:	0

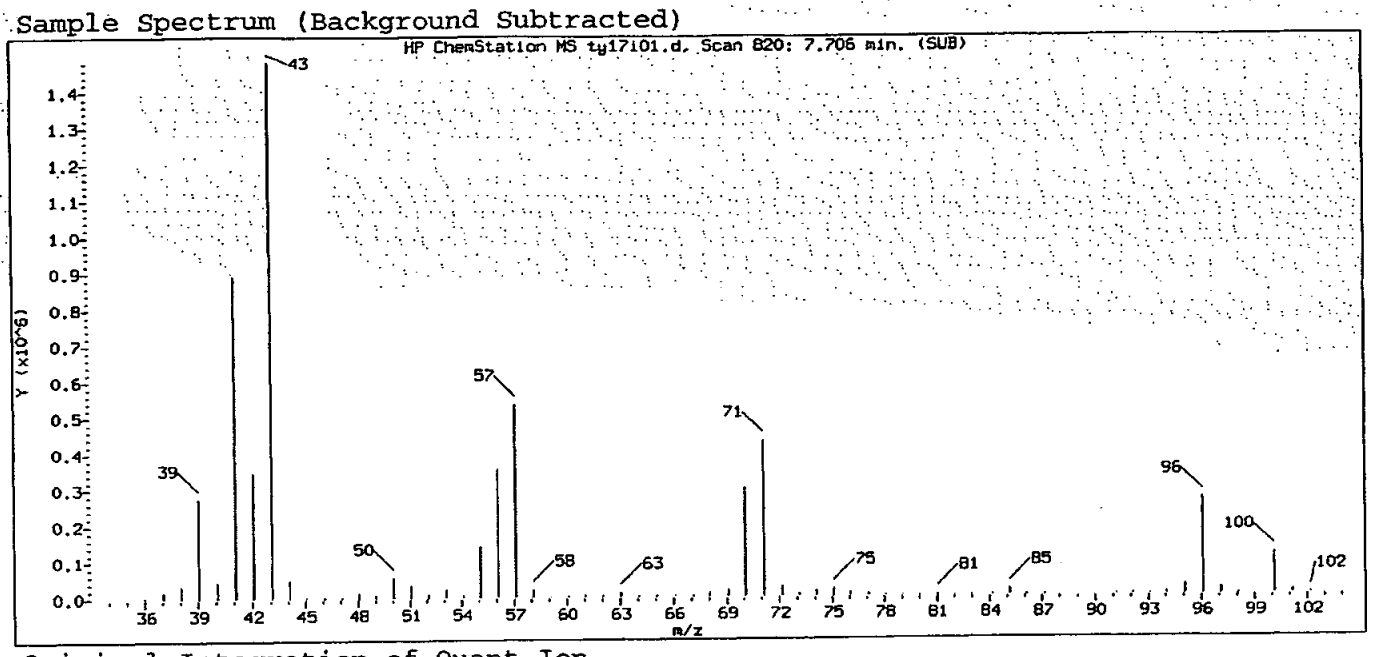
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:28. Target 3.5 esignature user ID: lcp00895

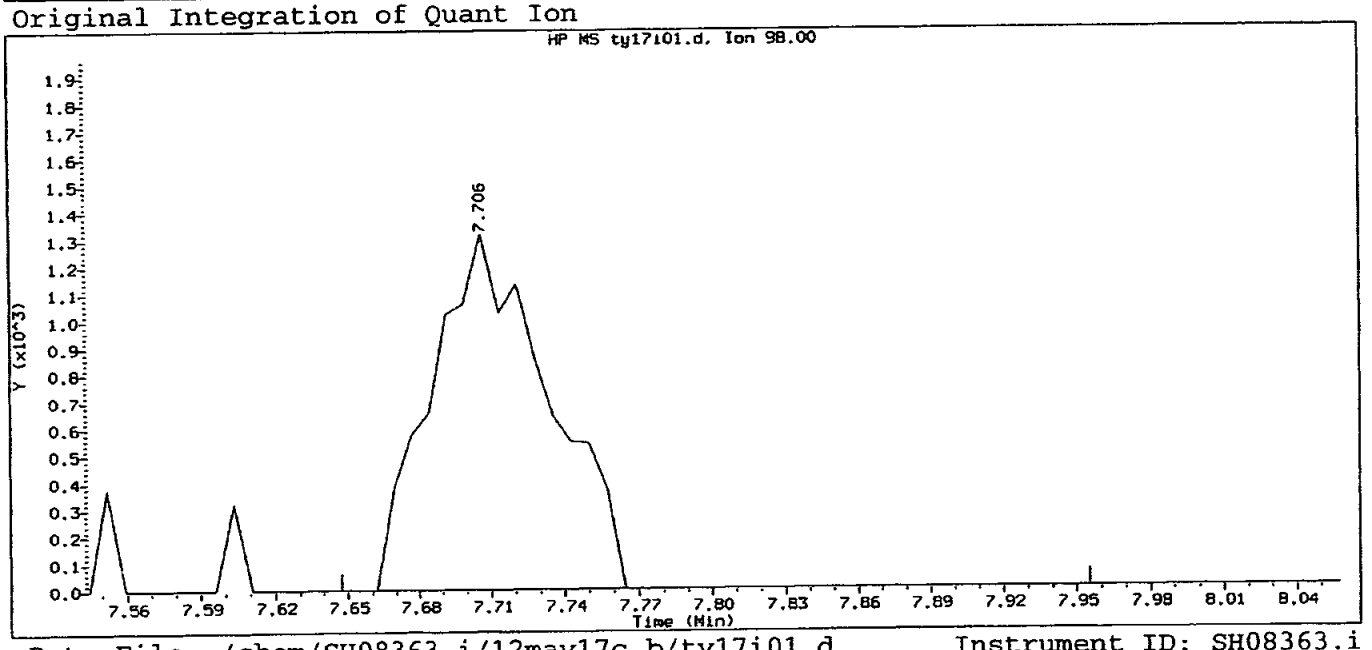
GC/MS audit/management approval: 6/2/12

ASX73 9279

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

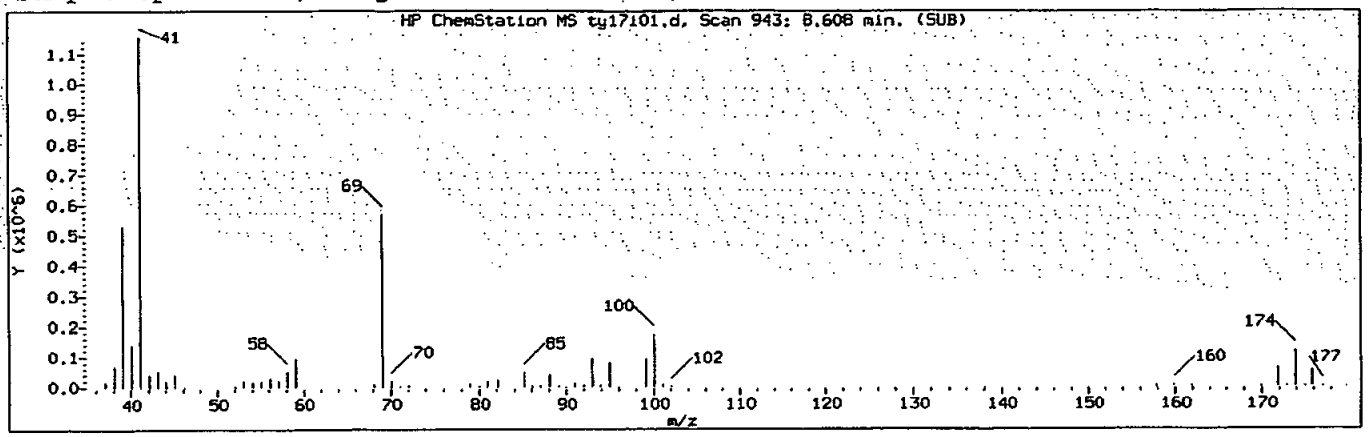
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

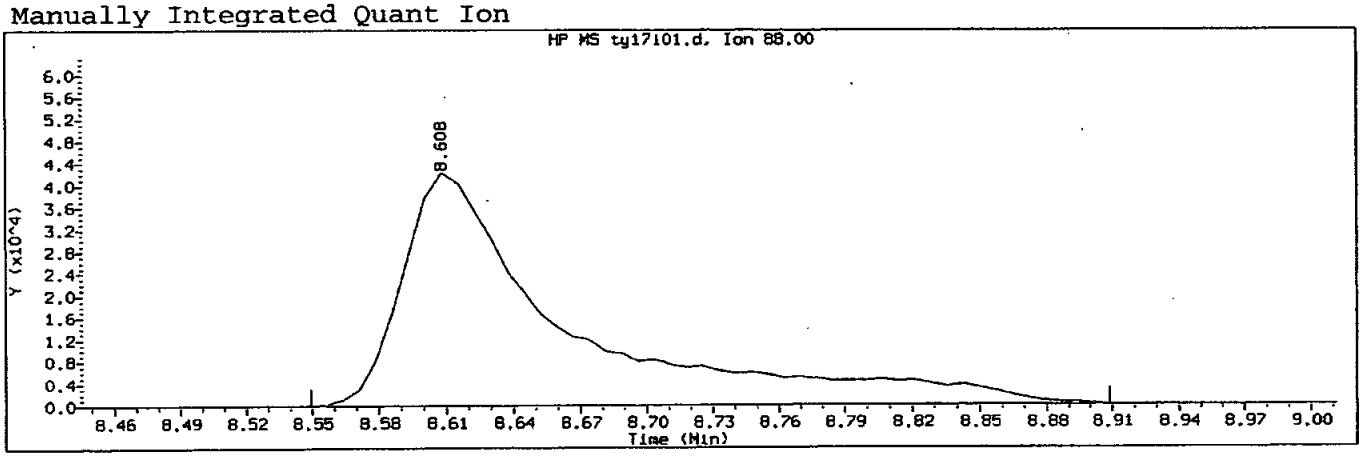
Compound Number : 67
Compound Name : 1,2-Dichloroethane(mz98)
Scan Number : 820
Retention Time (minutes): 7.706
Quant Ion : 98.00
Area : 4453
On-column Amount (ng) : 63.7597
Integration start scan : 811 Integration stop scan: 853
Y at integration start : 0 Y at integration end: 0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:28.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 943		
Retention Time (minutes)	: 8.608		
Quant Ion	: 88.00		
Area (flag)	: 214623M		
On-Column Amount (ng)	: 4024.5528		
Integration start scan	: 934	Integration stop scan:	983
Y at integration start	: 0	Y at integration end:	0

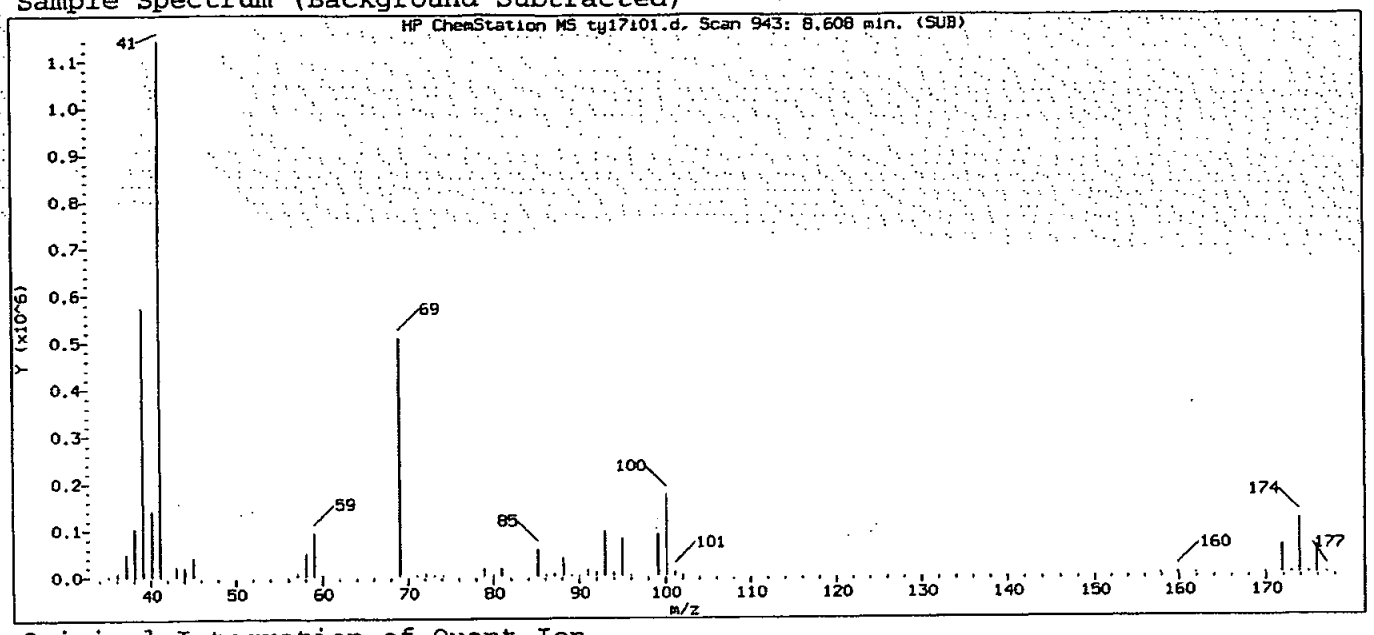
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:28. Target 3.5 esignature user ID: lcp00895

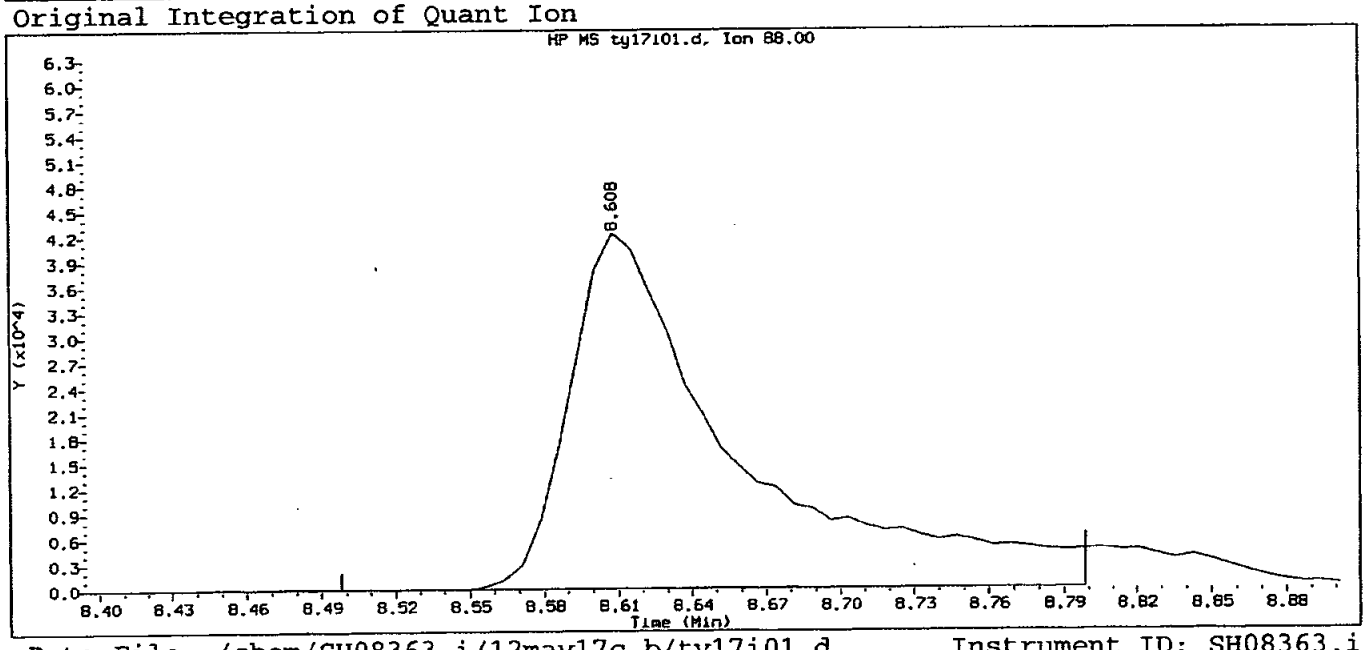
GC/MS audit/management approval: _____ 7/2/12

ASX73 0281

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

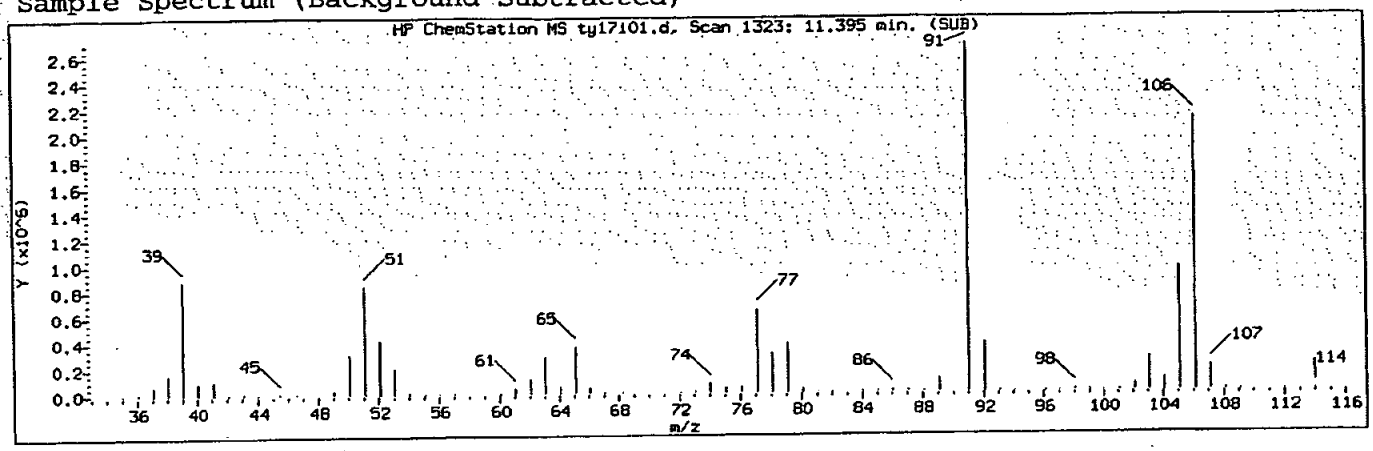
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

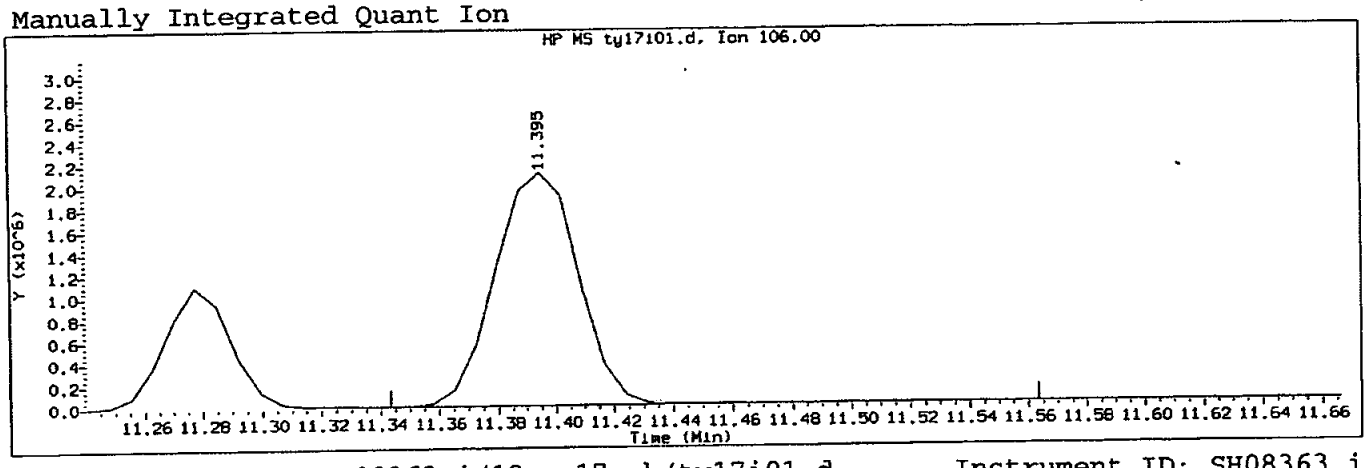
Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 943		
Retention Time (minutes)	: 8.608		
Quant Ion	: 88.00		
Area	: 198053		
On-column Amount (ng)	: 4582.3317		
Integration start scan	: 927	Integration stop scan:	968
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:28.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i01.d
Injection date and time: 17-MAY-2012 13:35

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:25 lcp00895

Sample Name: VSTD300

Lab Sample ID: VSTD300

Compound Number	: 115	
Compound Name	: m+p-Xylene	
Scan Number	: 1323	
Retention Time (minutes)	: 11.395	
Quant Ion	: 106.00	
Area (flag)	: 4237405A	
On-Column Amount (ng)	: 883.6986	
Integration start scan	: 1315	Integration stop scan: 1345
Y at integration start	: 0	Y at integration end: 0

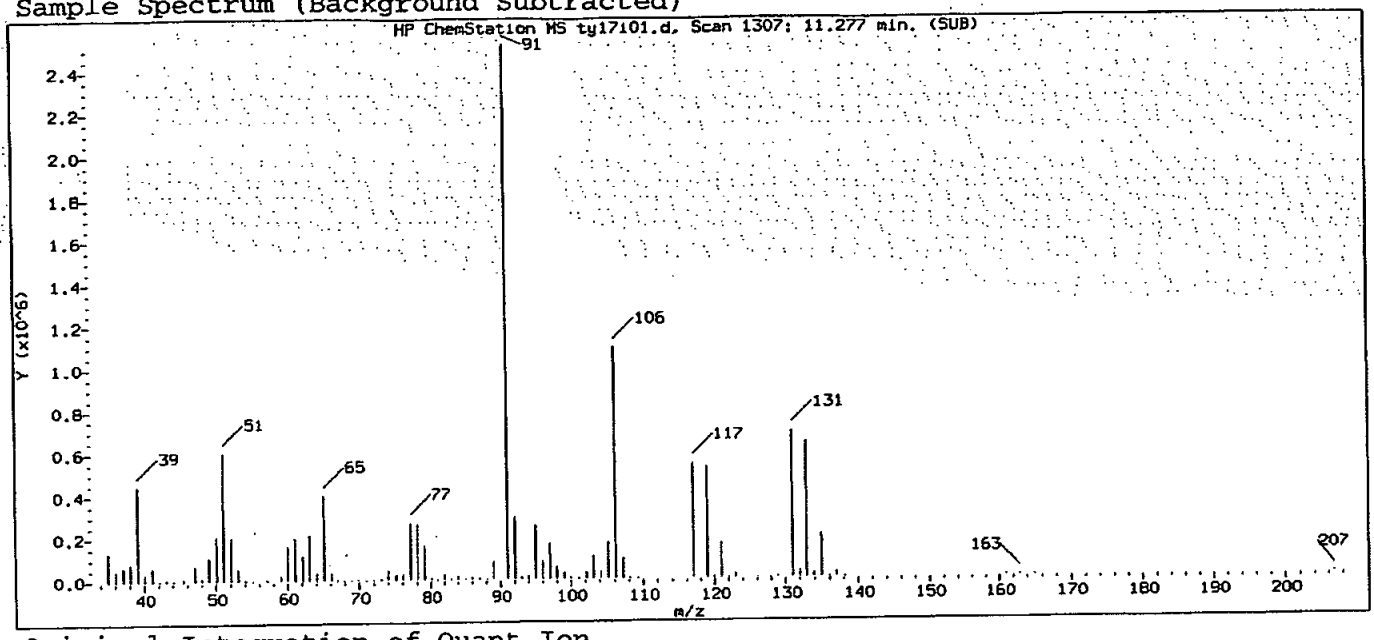
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:28. Target 3.5 esignature user ID: lcp00895

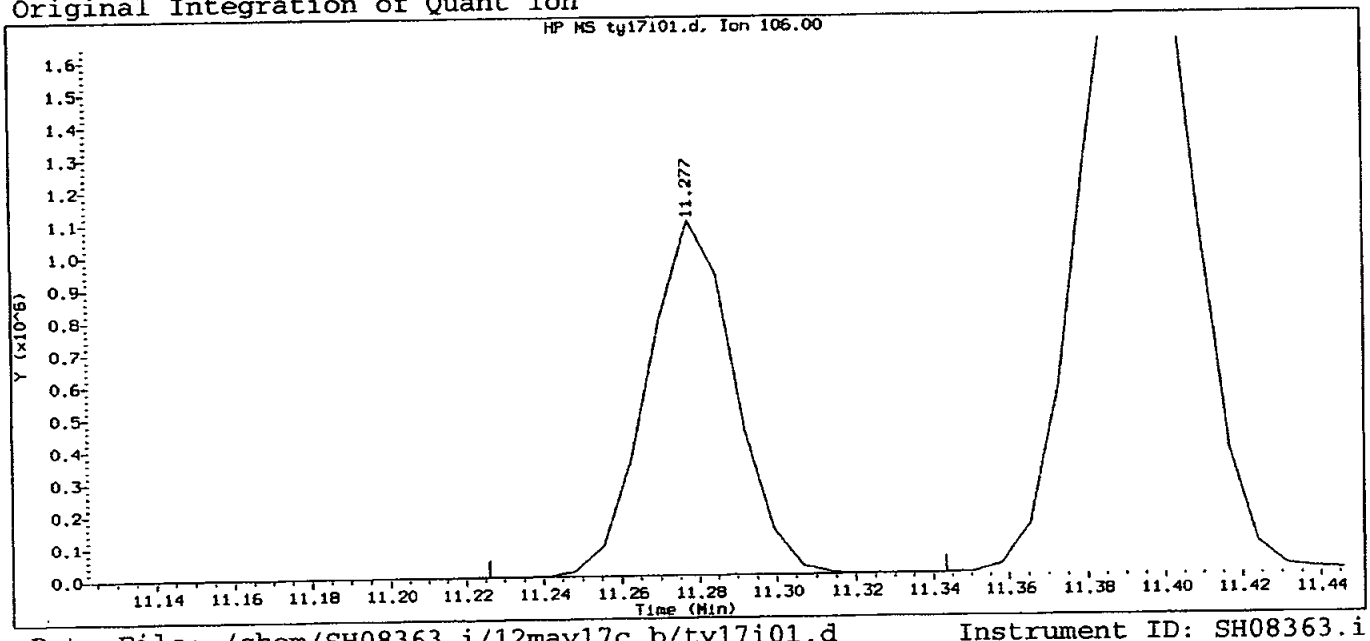
GC/MS audit/management approval: _____ 5/21/12

ASX73 9283

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



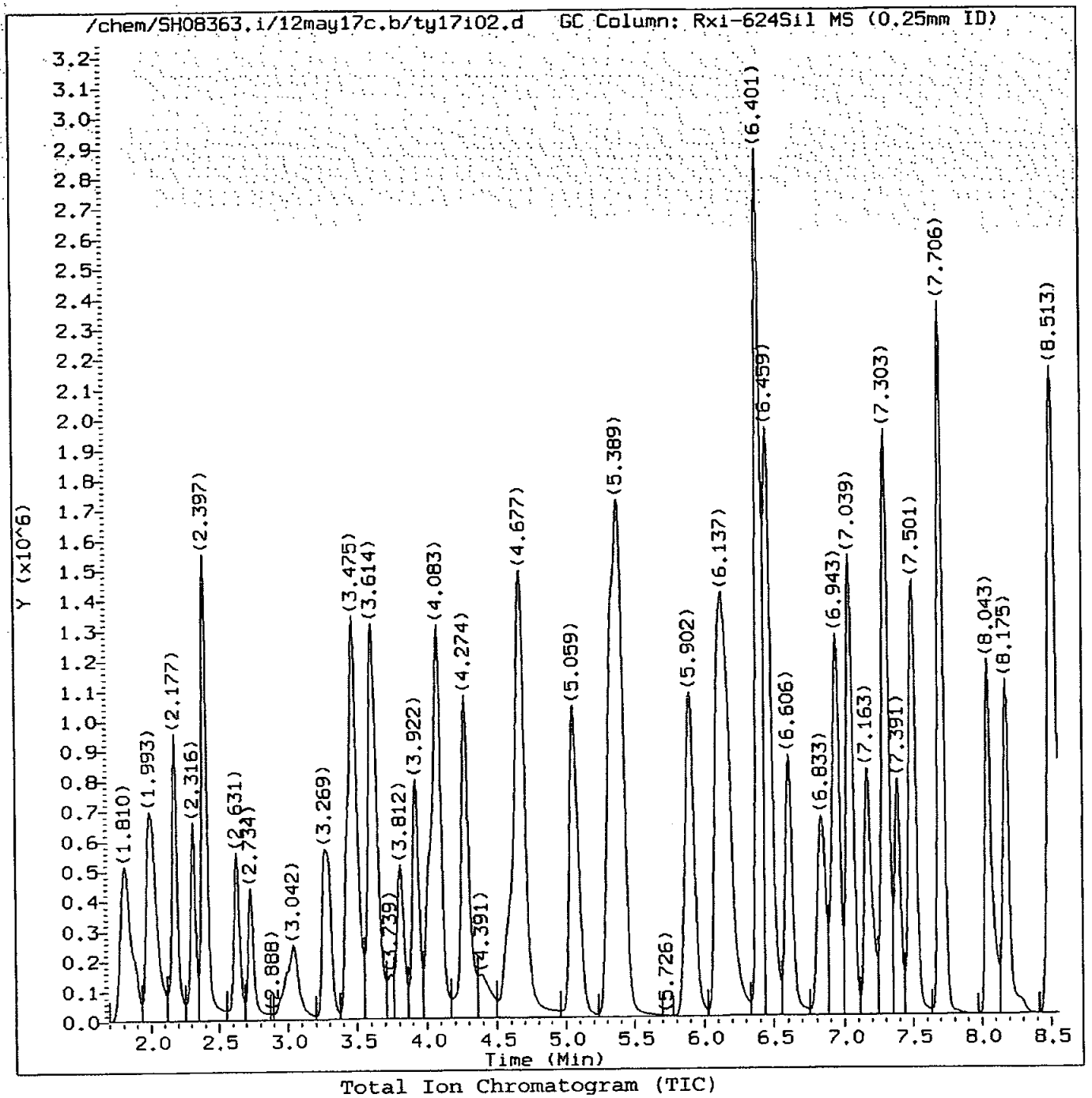
Data File: /chem/SH08363.i/12may17c.b/ty17i01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:35 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 115
Compound Name : m+p-Xylene
Scan Number : 1307
Retention Time (minutes): 11.277
Quant Ion : 106.00
Area : 1730323
On-column Amount (ng) : 502.6839
Integration start scan : 1299 Integration stop scan: 1315
Y at integration start : 0 Y at integration end: 0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:28.
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i02.d
Injection date and time: 17-MAY-2012 13:59

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m
Calibration date and time: 18-MAY-2012 06:57

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:13 lcp00895

Sample Name: VSTD100

Lab Sample ID: VSTD100

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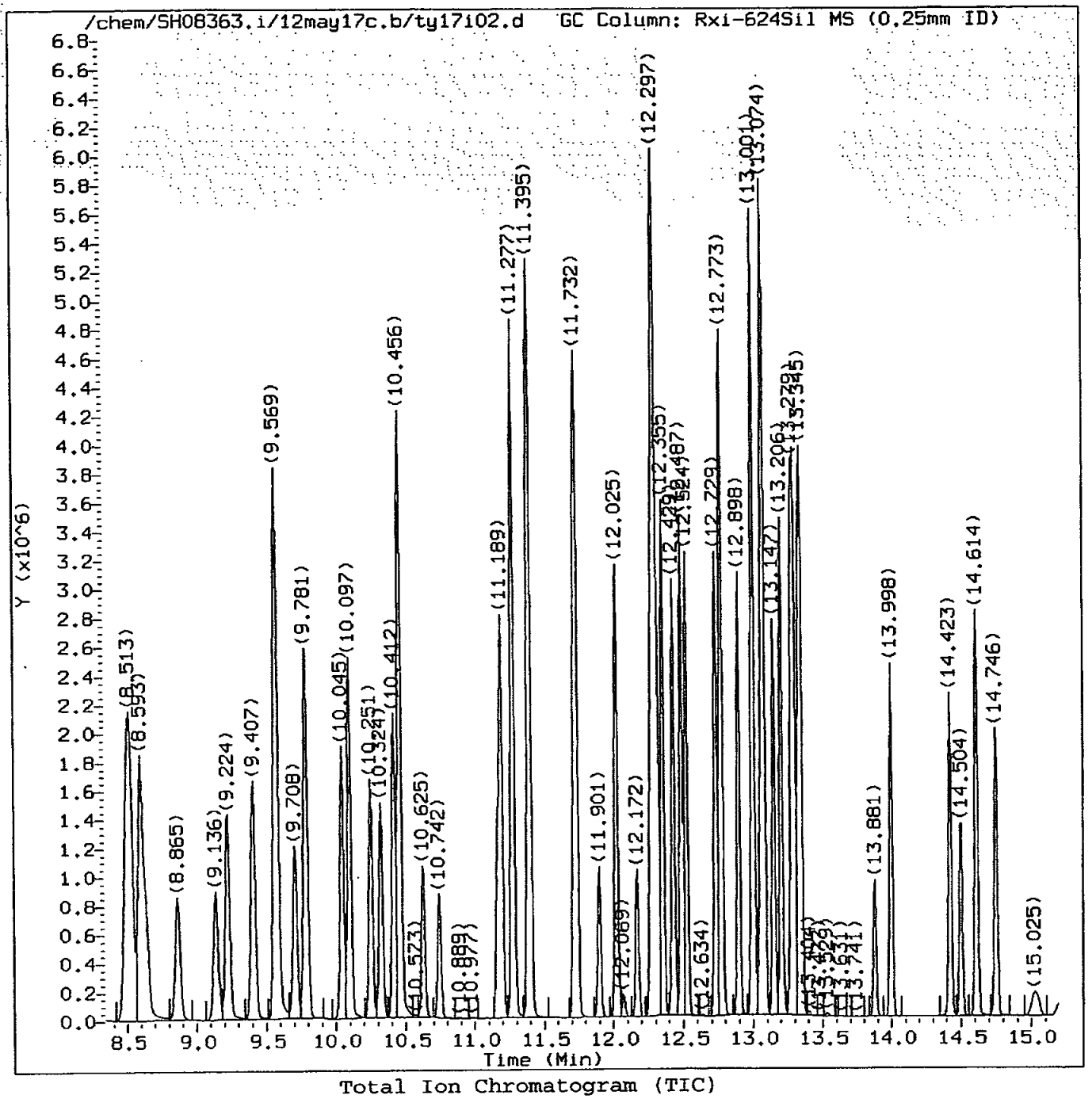
on 05/18/2012 at 07:14.
Target 3.5 esignature user ID: lcp00895

ASX73 9285



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i02.d
Injection date and time: 17-MAY-2012 13:59

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m
Calibration date and time: 18-MAY-2012 06:57

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:13 lcp00895

Sample Name: VSTD100

Lab Sample ID: VSTD100

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on 05/18/2012 at 07:14.
Target 3.5 esignature user ID: lcp00895

ASX73 8286

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i02.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:59 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 06:57
Date, time and analyst ID of latest file update: 18-May-2012 07:13 lcp00895

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.015	85	870980	6.729
2) Chloromethane	(1)	2.177	50	1451799	6.640
4) Vinyl Chloride	(1)	2.316	62	929088	6.612
7) Bromomethane	(1)	2.631	94	545397	6.622
8) Chloroethane	(1)	2.734	64	490117	6.617
13) Trichlorofluoromethane	(1)	3.042	101	552216	6.632
15) Ethyl Ether	(1)	3.277	59	686057	148.128
17) Acrolein	(4)	3.475	56	3043385	1196.449
18) 1,1-Dichloroethene	(1)	3.607	96	400672	6.570
19) Freon 113	(1)	3.629	101	416210	101.408
21) Acetone	(1)	3.629	58	223081	163.400
23) 2-Propanol	(4)	3.746	45	443525M	456.037
22) Methyl Iodide	(1)	3.812	142	829781	6.615
24) Carbon Disulfide	(1)	3.922	76	1689628	101.200
26) Methyl Acetate	(1)	4.017	43	1638585	121.697
25) Allyl Chloride	(1)	4.083	41	1871686	134.734
27) Methylene Chloride	(1)	4.274	84	577068	6.624
28)*t-Butyl Alcohol-d10	(4)	4.274	65	257085	250.000
29) t-Butyl Alcohol	(4)	4.391	59	565415M	111.593
30) Acrylonitrile	(1)	4.582	53	573166	96.591
31) Methyl Tertiary Butyl Ether	(1)	4.663	73	1601365	6.655
32) trans-1,2-Dichloroethene	(1)	4.677	96	481447	6.591
34) n-Hexane	(1)	5.059	57	912868	91.146
36) 1,1-Dichloroethane	(1)	5.323	63	1142745	6.612
41) 1,2-Dichloroethene (total)	(1)		96	1023178	13.196
37) di-Isopropyl Ether	(1)	5.374	45	3694728	6.651
40) 2-Chloro-1,3-Butadiene	(1)	5.411	53	1061090	108.600
42) Ethyl t-Butyl Ether	(1)	5.902	59	2154550	6.613
45) 2-Butanone	(1)	6.093	43	2224521	215.462
44) cis-1,2-Dichloroethene	(1)	6.129	96	541731	6.605
43) 2,2-Dichloropropane	(1)	6.166	77	598900	6.650
46) Propionitrile	(4)	6.181	54	1095762	556.757
47) Methacrylonitrile	(1)	6.401	67	1074977	272.124
49) Bromochloromethane	(1)	6.459	128	282231	117.405
50) Tetrahydrofuran	(4)	6.467	71	301874	247.955
52) Chloroform	(1)	6.606	83	932987	6.663
54)$Dibromofluoromethane	(1)	6.819	113	247298	57.339
53)$Dibromofluoromethane(mz111)	(1)	6.826	111	255721	57.492

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: lcp00895

ASX73 0287

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i02.d
Injection date and time: 17-MAY-2012 13:59

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m
Calibration date and time: 18-MAY-2012 06:57

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:13 lcp00895

Sample Name: VSTD100

Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	6.841	97	544454	6.632
58) Cyclohexane	(1)	6.943	56	1160058	96.417
57) Cyclohexane(mz84)	(1)	6.943	84	636769	102.029
56) Cyclohexane(mz69)	(1)	6.943	69	274372	101.430
59) 1,1-Dichloropropene	(1)	7.039	75	721171	6.640
60) Carbon Tetrachloride	(1)	7.053	117	440034	6.665
61) Isobutyl Alcohol	(4)	7.163	41	906117	1206.138
64)$1,2-Dichloroethane-d4(mz65)	(1)	7.281	65	301599	54.773
63)$1,2-Dichloroethane-d4(mz104)	(1)	7.281	104	37435	50.092
62)$1,2-Dichloroethane-d4	(1)	7.281	102	60540	50.146
65) Benzene	(1)	7.303	78	2058413	6.627
67) 1,2-Dichloroethane(mz98)	(1)	7.383	98	66119	87.794
66) 1,2-Dichloroethane	(1)	7.391	62	784508	6.646
68) t-Amyl Methyl Ether	(1)	7.501	73	1642212	6.645
69) n-Heptane	(1)	7.706	43	1424376	107.956
70)*Fluorobenzene	(1)	7.706	96	876881	50.000
73) n-Butanol	(4)	8.043	56	1130536	2357.849
74) Trichloroethene	(1)	8.175	95	486599	6.611
76) Methylcyclohexane	(1)	8.498	83	758395	118.848
79) 1,2-Dichloropropane	(1)	8.527	63	686918	6.603
81) Methyl Methacrylate	(1)	8.593	69	631752	111.872
82) 1,4-Dioxane	(4)	8.601	88	89214M	1204.407
80) Dibromomethane	(1)	8.630	93	430560	6.638
83) Bromodichloromethane	(1)	8.865	83	690752	6.668
84) 2-Nitropropane	(1)	9.136	41	754932	216.250
85) 2-Chloroethyl Vinyl Ether	(1)	9.224	63	626848	108.886
87) cis-1,3-Dichloropropene	(1)	9.407	75	920364	6.651
88) 4-Methyl-2-Pentanone	(1)	9.569	58	1245981	208.706
90)$Toluene-d8	(2)	9.708	98	798949	45.284
91)$Toluene-d8(mz100)	(2)	9.708	100	537748	45.038
93) Toluene	(2)	9.781	92	1136106	6.574
96) trans-1,3-Dichloropropene	(2)	10.045	75	871732	6.643
97) Ethyl Methacrylate	(2)	10.097	69	1028652	102.918
98) 1,1,2-Trichloroethane	(2)	10.251	97	497795	6.581
99) Tetrachloroethene	(2)	10.324	166	460812	6.603
100) 1,3-Dichloropropane	(2)	10.412	76	982478	6.628
101) 2-Hexanone	(2)	10.456	58	1493562	203.633
103) Dibromochloromethane	(2)	10.625	129	527060	6.638

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Target 3.5 esignature user ID: lcp00895

ASX73 9288

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i02.d
Injection date and time: 17-MAY-2012 13:59

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m
Calibration date and time: 18-MAY-2012 06:57

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:13 lcp00895

Sample Name: VSTD100

Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
104) 1,2-Dibromoethane	(2)	10.742	107	598453	6.610
107)*Chlorobenzene-d5	(2)	11.160	117	583122	50.000
108) Chlorobenzene	(2)	11.189	112	1197313	6.599
114) Ethylbenzene	(2)	11.277	106	592379	92.757
111) 1,1,1,2-Tetrachloroethane	(2)	11.277	131	400905	6.625
116) Xylene (Total)	(2)		106	2191981	277.190
115) m+p-Xylene	(2)	11.395	106	1475747	184.879
117) o-Xylene	(2)	11.717	106	716234	92.311
119) Styrene	(2)	11.739	104	1286929	92.921
120) Bromoform	(2)	11.901	173	457069	58.693
121) Isopropylbenzene	(2)	12.025	105	1672542	88.088
125)$4-Bromofluorobenzene(mz174)	(2)	12.165	174	240216	48.790
124)$4-Bromofluorobenzene	(2)	12.172	95	328593	45.981
126) 1,1,2,2-Tetrachloroethane	(3)	12.267	83	1024765	6.629
127) Bromobenzene	(3)	12.282	156	533385	107.036
129) trans-1,4-Dichloro-2-Butene	(3)	12.297	53	898608	317.201
128) 1,2,3-Trichloropropane	(3)	12.319	110	213443	105.028
130) n-Propylbenzene	(3)	12.355	91	2392306	100.340
131) 2-Chlorotoluene	(3)	12.429	126	430813	101.941
132) 1,3,5-Trimethylbenzene	(3)	12.487	105	1466877	95.249
133) 4-Chlorotoluene	(3)	12.524	126	464221	103.741
134) tert-Butylbenzene	(3)	12.729	134	301244	104.396
135) Pentachloroethane	(3)	12.766	167	305697	112.888
137) 1,2,4-Trimethylbenzene	(3)	12.773	105	1485646	92.602
138) sec-Butylbenzene	(3)	12.898	105	1792016	93.386
139) 1,3-Dichlorobenzene	(3)	12.993	146	902331	98.578
140) p-Isopropyltoluene	(3)	13.001	119	1451302	102.938
141)*1,4-Dichlorobenzene-d4	(3)	13.052	152	295675	50.000
142) 1,4-Dichlorobenzene	(3)	13.067	146	931580	98.225
143) 1,2,3-Trimethylbenzene	(3)	13.081	105	1551824	93.454
144) Benzyl Chloride	(3)	13.147	91	1493418	107.910
145) 1,3-Diethylbenzene	(3)	13.206	119	870138	105.392
146) 1,4-Diethylbenzene	(3)	13.279	119	901836	101.988
147) n-Butylbenzene	(3)	13.294	92	980700	98.004
148) 1,2-Dichlorobenzene	(3)	13.331	146	865681	99.271
149) 1,2-Diethylbenzene	(3)	13.345	119	710385	99.934
151) 1,2-Dibromo-3-Chloropropane	(3)	13.881	75	182057	113.136
153) 1,3,5-Trichlorobenzene	(3)	13.998	180	623363	101.113

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Target 3.5 esignature user ID: lcp00895

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i02.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:59 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 06:57
Date, time and analyst ID of latest file update: 18-May-2012 07:13 lcp00895

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
154) 1,2,4-Trichlorobenzene	(3)	14.423	180	557839	102.127
155) Hexachlorobutadiene	(3)	14.497	225	241182	107.166
156) Naphthalene	(3)	14.607	128	1724077	6.621
157) 1,2,3-Trichlorobenzene	(3)	14.746	180	532226	104.043

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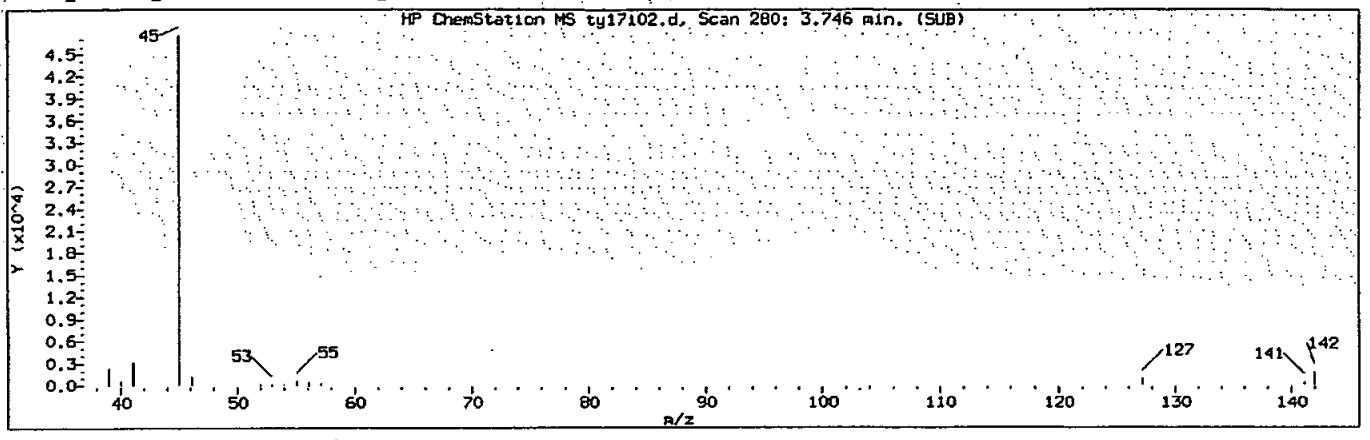
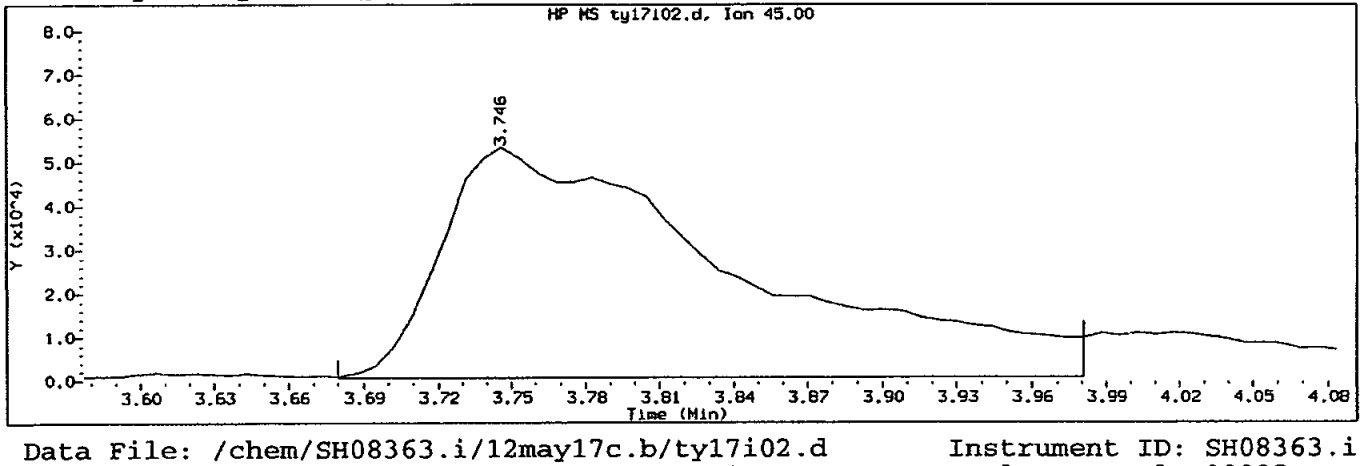
Target 3.5 esignature user ID: lcp00895

ASX73 8298

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i02.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:59 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 06:57
Date, time and analyst ID of latest file update: 18-May-2012 07:13 lcp00895

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 23		
Compound Name	: 2-Propanol		
Scan Number	: 280		
Retention Time (minutes)	: 3.746		
Quant Ion	: 45.00		
Area (flag)	: 443525M		
On-Column Amount (ng)	: 456.0367		
Integration start scan	: 270	Integration stop scan:	311
Y at integration start	: 640	Y at integration end:	640

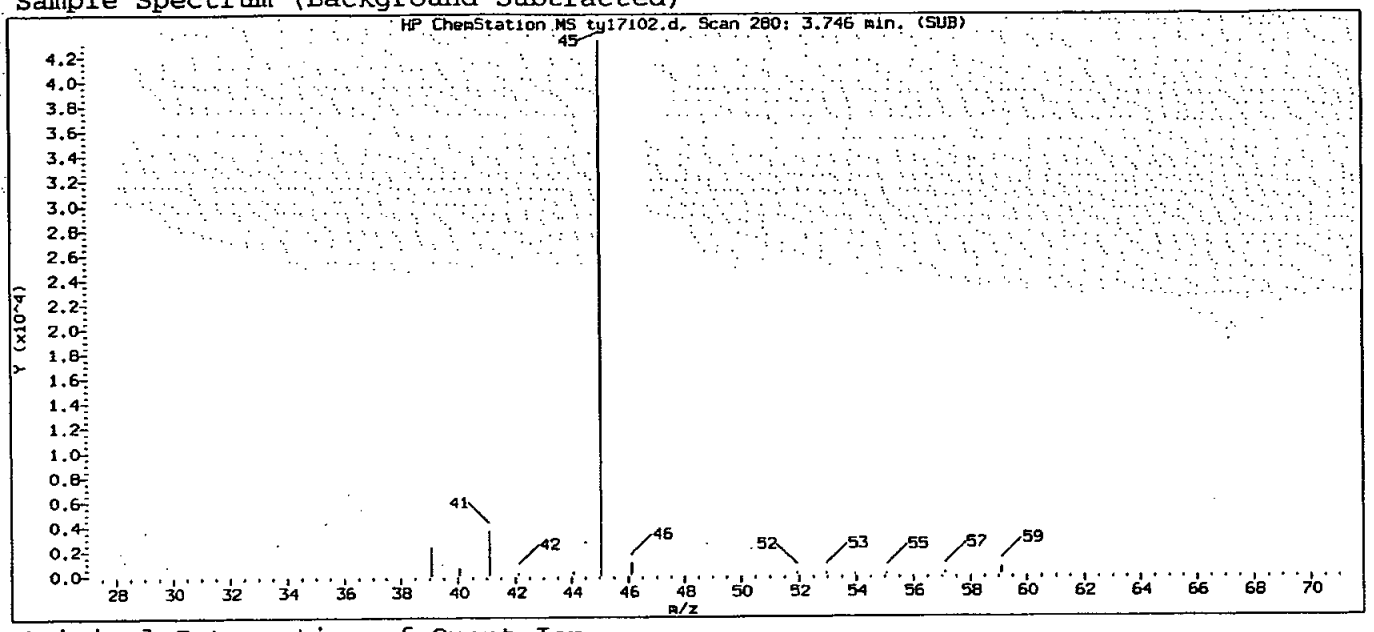
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:14. Target 3.5 esignature user ID: lcp00895

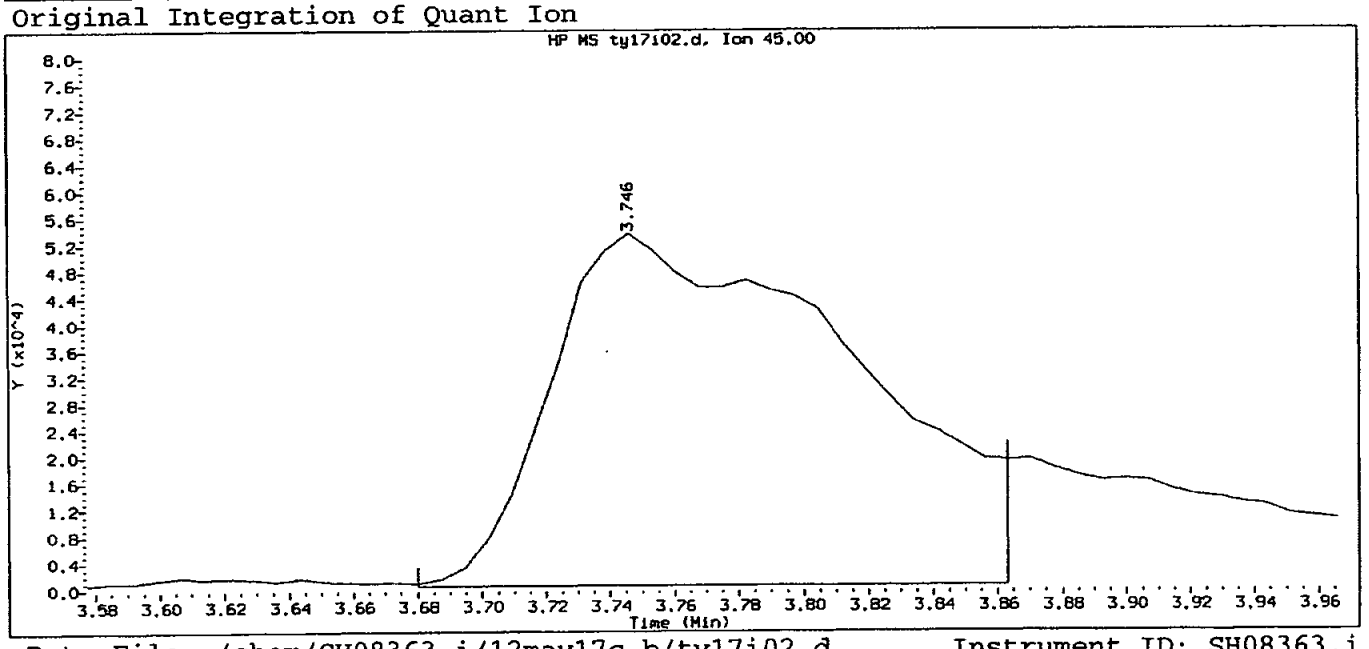
GC/MS audit/management approval: _____ 5/21/12

ASX73 0291

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i02.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:59 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 06:57
Date, time and analyst ID of latest file update: 18-May-2012 06:57 lcp00895

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 23		
Compound Name	: 2-Propanol		
Scan Number	: 280		
Retention Time (minutes)	: 3.746		
Quant Ion	: 45.00		
Area	: 347757		
On-column Amount (ng)	: 357.5666		
Integration start scan	: 270	Integration stop scan:	295
Y at integration start	: 524	Y at integration end:	524

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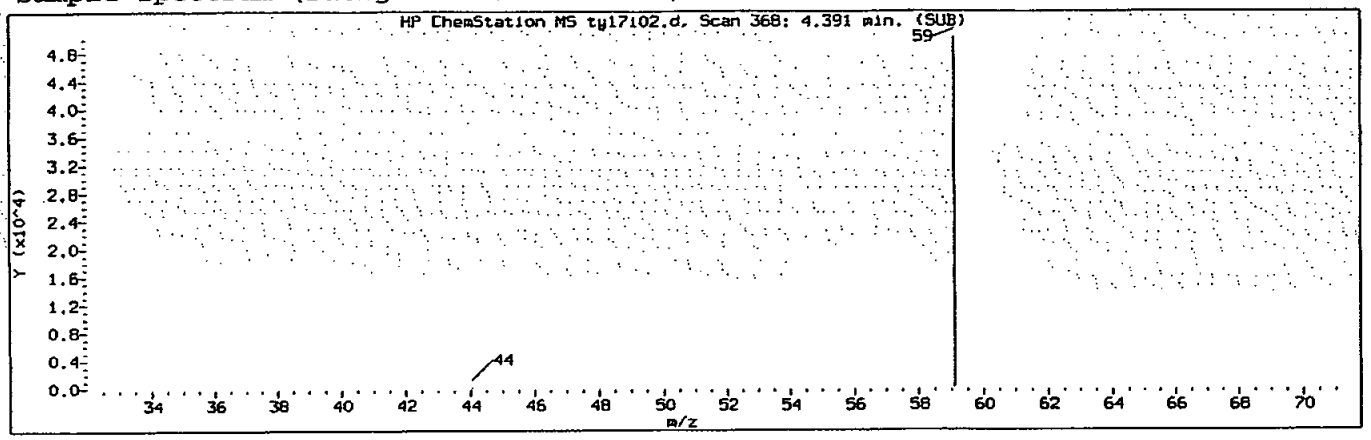
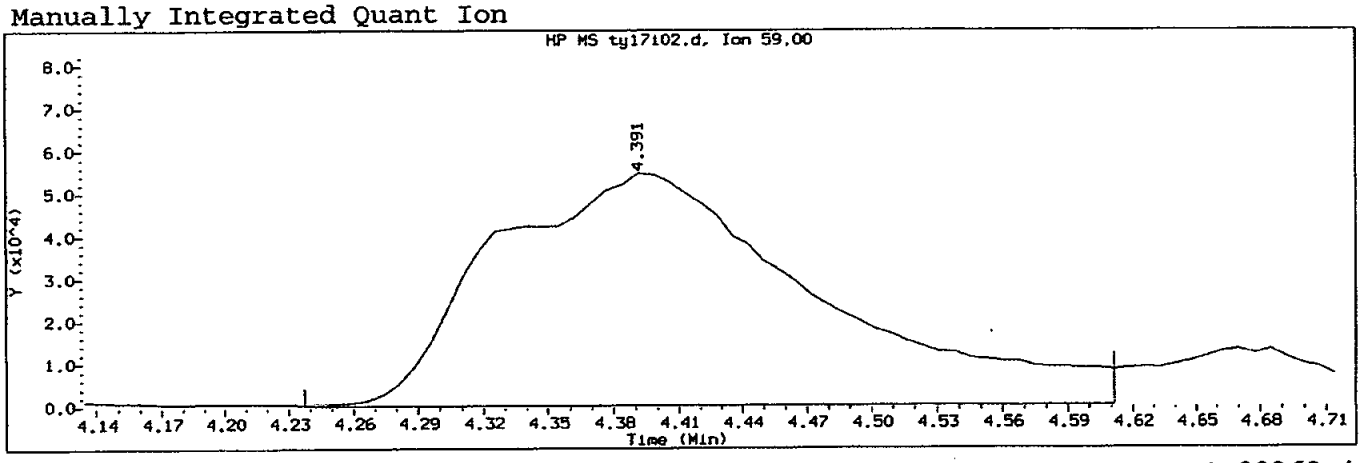
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i02.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:59 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 06:57
Date, time and analyst ID of latest file update: 18-May-2012 07:13 lcp00895

Sample Name: VSTD100 Lab Sample ID: VSTD100

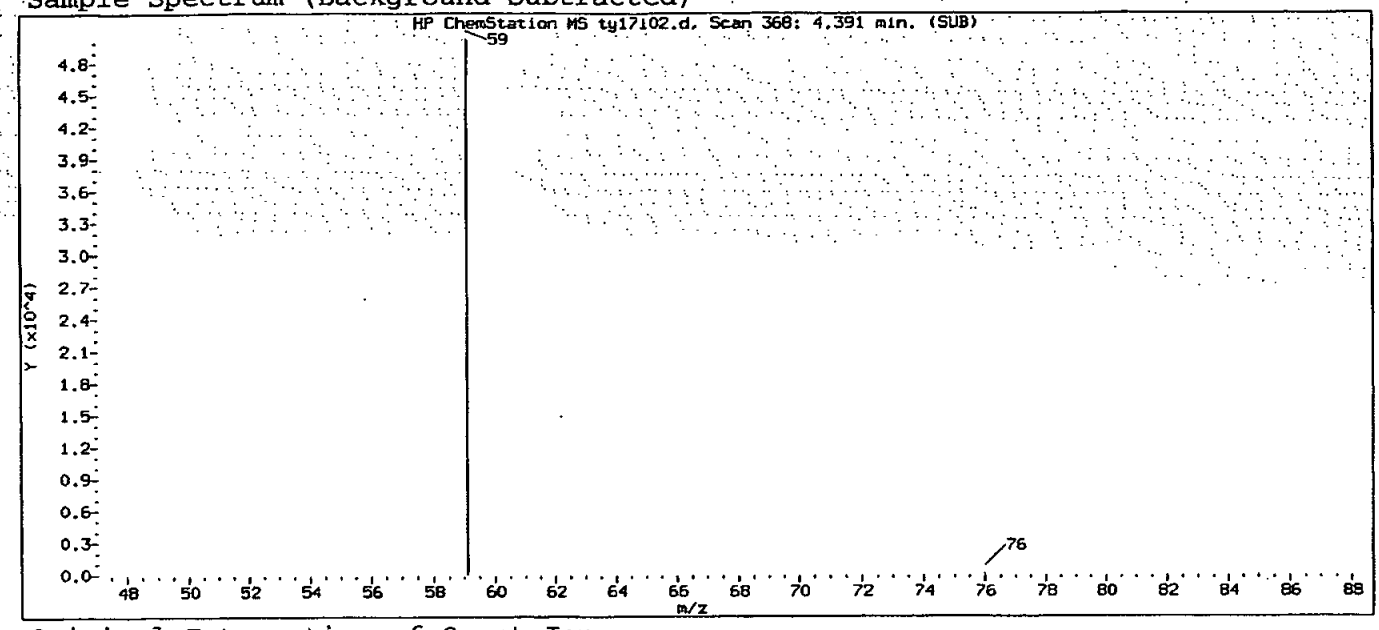
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 368		
Retention Time (minutes)	: 4.391		
Quant Ion	: 59.00		
Area (flag)	: 565415M		
On-Column Amount (ng)	: 111.5932		
Integration start scan	: 346	Integration stop scan:	397
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

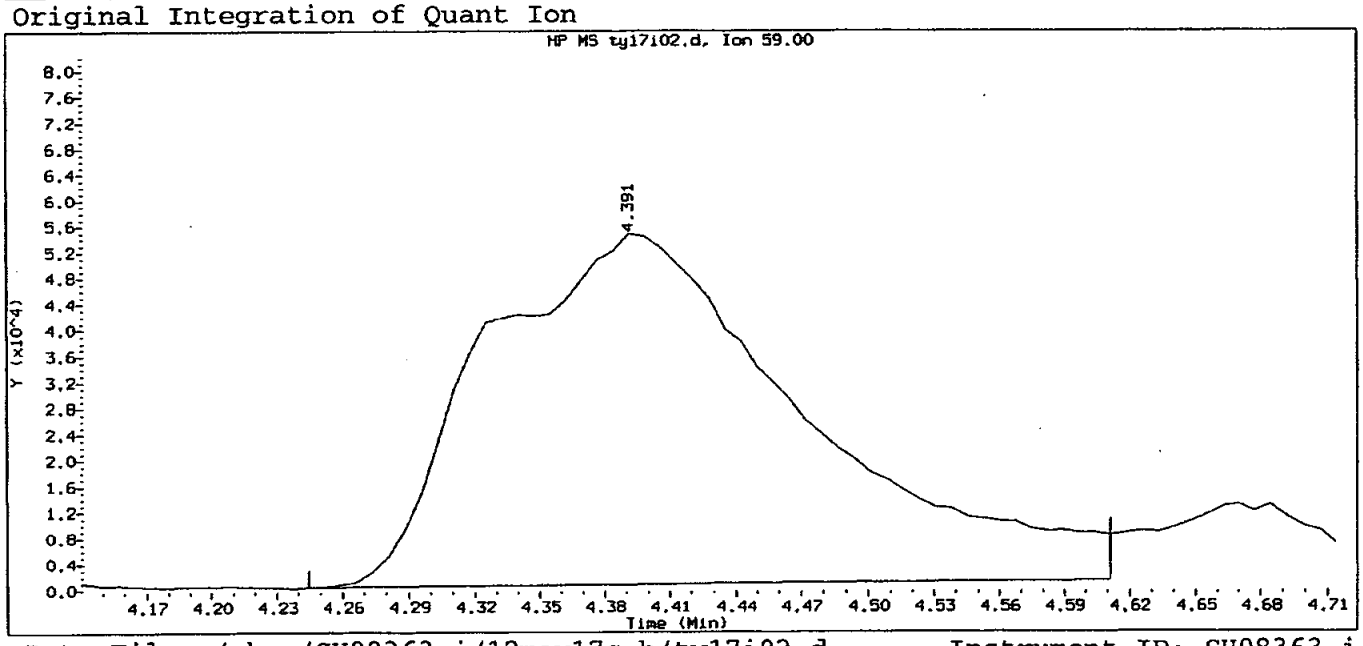
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:14. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i02.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:59 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 06:57
Date, time and analyst ID of latest file update: 18-May-2012 06:57 lcp00895

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 368		
Retention Time (minutes)	: 4.391		
Quant Ion	: 59.00		
Area	: 543924		
On-column Amount (ng)	: 110.7056		
Integration start scan	: 347	Integration stop scan:	397
Y at integration start	: 387	Y at integration end:	1381

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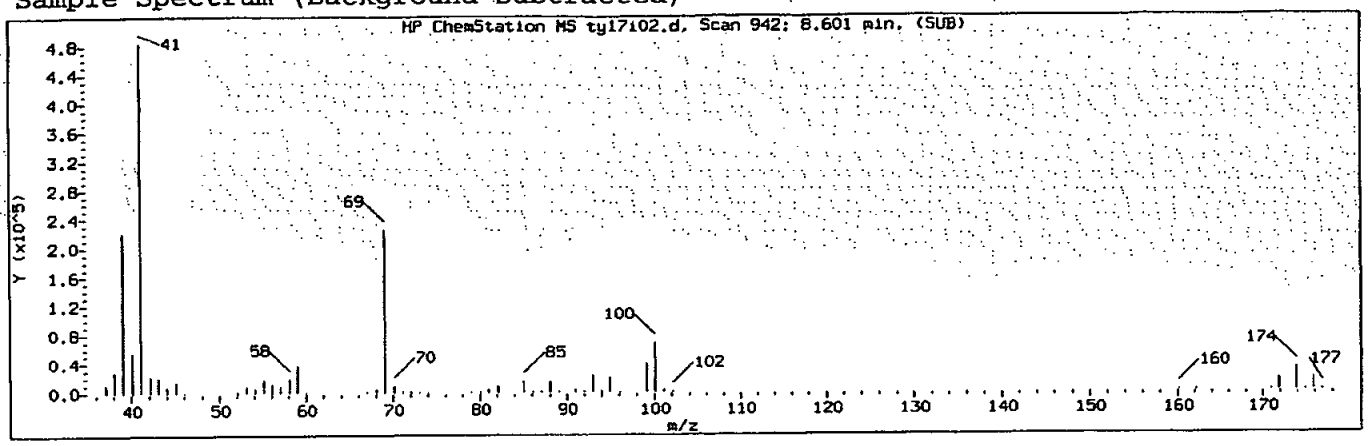
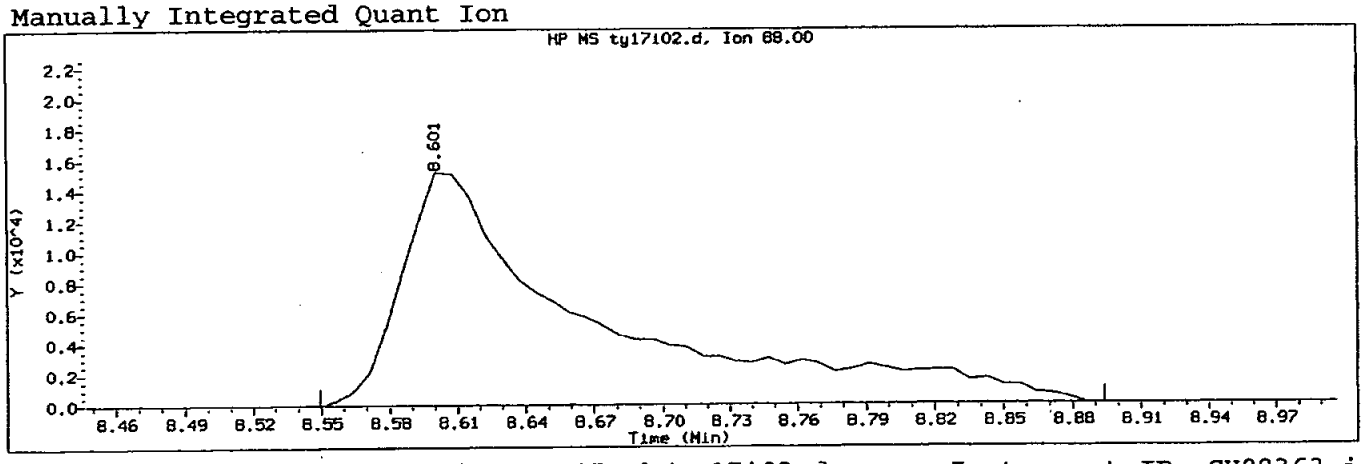
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i02.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:59 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 06:57
Date, time and analyst ID of latest file update: 18-May-2012 07:13 lcp00895

Sample Name: VSTD100 Lab Sample ID: VSTD100

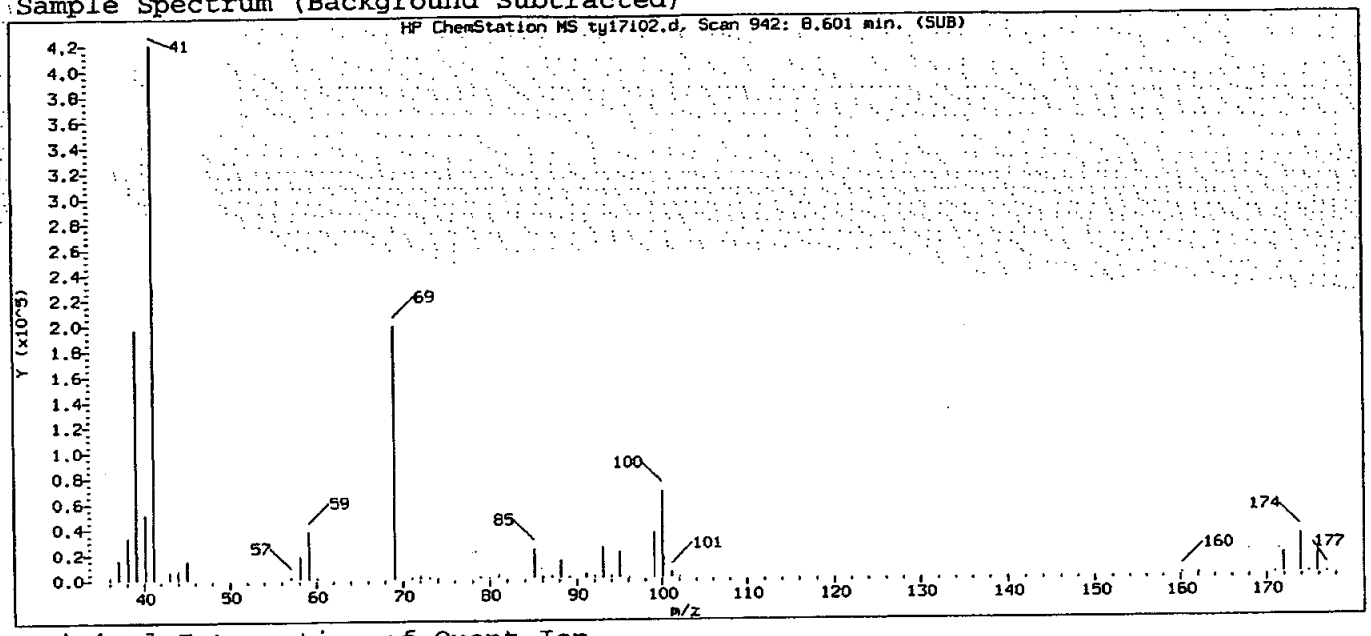
Compound Number : 82
Compound Name : 1,4-Dioxane
Scan Number : 942
Retention Time (minutes): 8.601
Quant Ion : 88.00
Area (flag) : 89214M
On-Column Amount (ng) : 1204.4066
Integration start scan : 934 Integration stop scan: 981
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

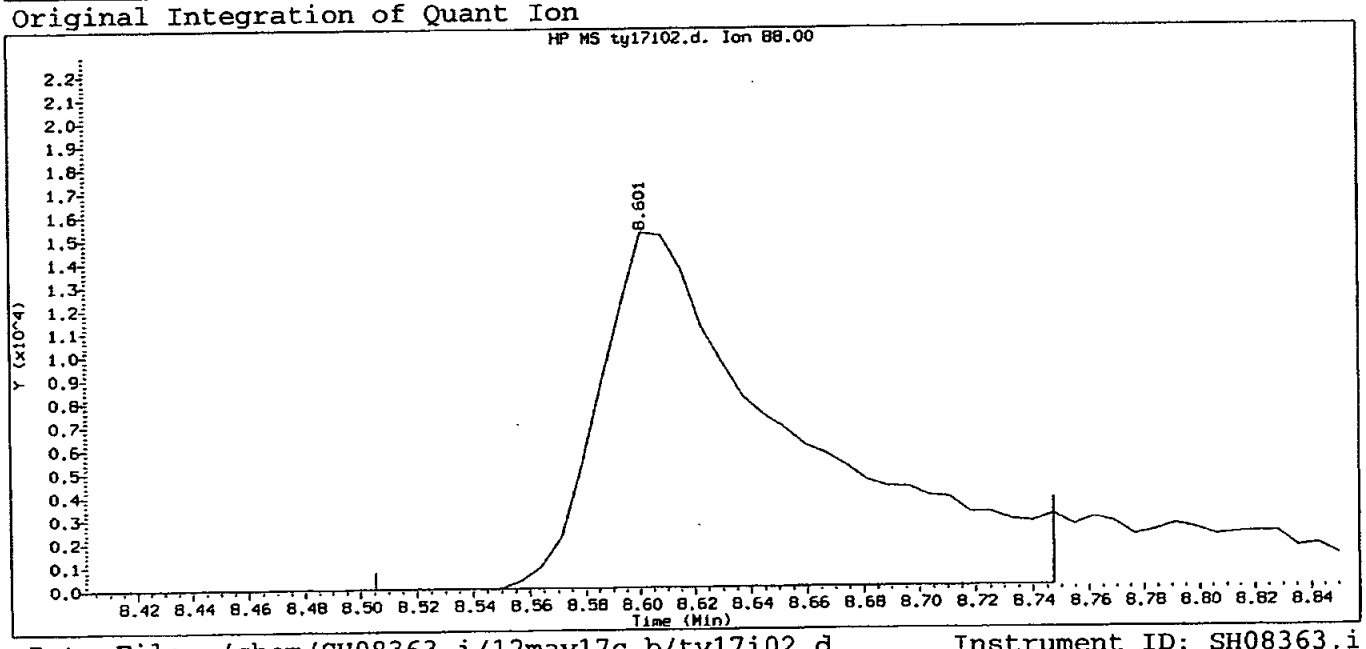
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:14. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i02.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 13:59 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may16a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 06:57
Date, time and analyst ID of latest file update: 18-May-2012 06:57 lcp00895

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 942		
Retention Time (minutes)	: 8.601		
Quant Ion	: 88.00		
Area	: 73736		
On-column Amount (ng)	: 995.4497		
Integration start scan	: 928	Integration stop scan:	961
Y at integration start	: 0	Y at integration end:	0

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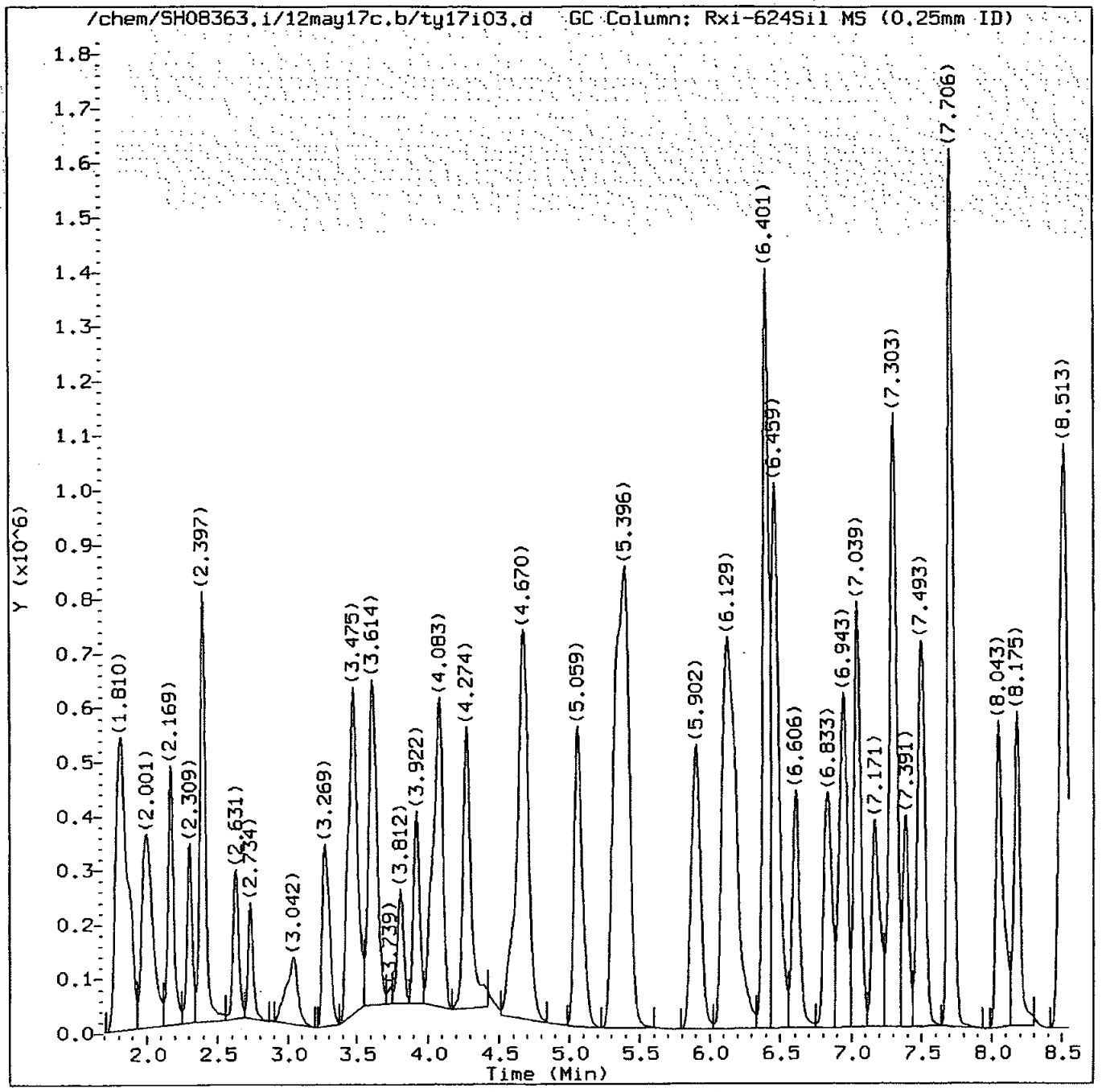
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i03.d
Injection date and time: 17-MAY-2012 14:23

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

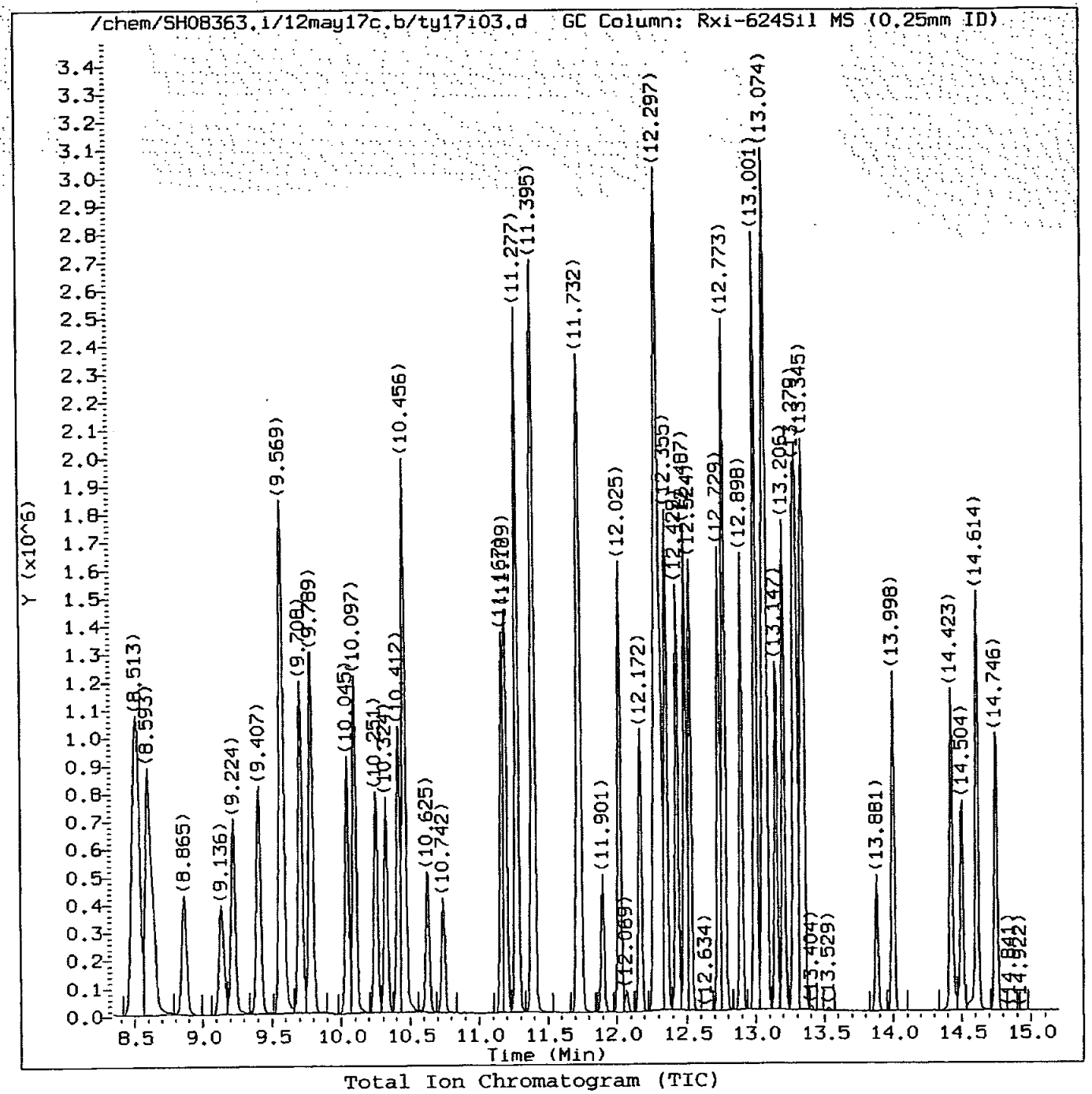
Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:30.
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i03.d
Injection date and time: 17-MAY-2012 14:23

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:30
Target 3.5 esignature user ID: lcp00895

ASX73 0298

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.023	85	453196	54.129
2) Chloromethane	(1)	2.169	50	734376	50.511
4) Vinyl Chloride	(1)	2.309	62	474670	51.037
7) Bromomethane	(1)	2.631	94	275936	50.600
8) Chloroethane	(1)	2.734	64	249560	50.390
13) Trichlorofluoromethane	(1)	3.035	101	286532	52.666
15) Ethyl Ether	(1)	3.269	59	356360	59.242
17) Acrolein	(4)	3.475	56	1494830	464.814
18) 1,1-Dichloroethene	(1)	3.607	96	199915	51.017
19) Freon 113	(1)	3.629	101	208462	53.333
21) Acetone	(1)	3.629	58	118324	92.652
23) 2-Propanol	(4)	3.746	45	231278M	248.704
22) Methyl Iodide	(1)	3.812	142	417429	53.572
24) Carbon Disulfide	(1)	3.922	76	840013	52.206
26) Methyl Acetate	(1)	4.017	43	805054	48.838
25) Allyl Chloride	(1)	4.083	41	931370	53.102
28)*t-Butyl Alcohol-d10	(4)	4.267	65	271970	250.000
27) Methylene Chloride	(1)	4.274	84	294629	49.844
29) t-Butyl Alcohol	(4)	4.399	59	310380M	299.339
30) Acrylonitrile	(1)	4.589	53	293232	48.810
31) Methyl Tertiary Butyl Ether	(1)	4.663	73	795694	52.582
32) trans-1,2-Dichloroethene	(1)	4.670	96	239815	51.976
34) n-Hexane	(1)	5.051	57	457086	54.140
36) 1,1-Dichloroethane	(1)	5.315	63	573692	52.209
41) 1,2-Dichloroethene (total)	(1)		96	507324	103.802
37) di-Isopropyl Ether	(1)	5.374	45	1866069	53.216
40) 2-Chloro-1,3-Butadiene	(1)	5.411	53	533905	52.399
42) Ethyl t-Butyl Ether	(1)	5.902	59	1068207	52.392
45) 2-Butanone	(1)	6.093	43	1076620	94.933
44) cis-1,2-Dichloroethene	(1)	6.129	96	267509	51.826
43) 2,2-Dichloropropane	(1)	6.159	77	302973	54.612
46) Propionitrile	(4)	6.188	54	548394	237.242
47) Methacrylonitrile	(1)	6.401	67	526712	125.646
49) Bromochloromethane	(1)	6.459	128	141052	51.804
50) Tetrahydrofuran	(4)	6.467	71	146674	93.864
52) Chloroform	(1)	6.606	83	461288	51.210
53)$Dibromofluoromethane(mz111)	(1)	6.819	111	252675	50.687
54)$Dibromofluoromethane	(1)	6.819	113	250748	50.913

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 05/18/2012 at 07:30.
Target 3.5 esignature user ID: lcp00895

ASX73 0299

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i03.d
Injection date and time: 17-MAY-2012 14:23

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	6.848	97	269383	53.214
58) Cyclohexane	(1)	6.943	56	582462	53.400
57) Cyclohexane(mz84)	(1)	6.943	84	321206M	52.671
56) Cyclohexane(mz69)	(1)	6.943	69	137400	53.495
59) 1,1-Dichloropropene	(1)	7.039	75	364150	54.251
60) Carbon Tetrachloride	(1)	7.053	117	217387	55.629
61) Isobutyl Alcohol	(4)	7.171	41	480233	594.355
64)$1,2-Dichloroethane-d4(mz65)	(1)	7.281	65	300235	48.909
62)$1,2-Dichloroethane-d4	(1)	7.281	102	59112	48.588
63)$1,2-Dichloroethane-d4(mz104)	(1)	7.288	104	38963	50.009
65) Benzene	(1)	7.303	78	1040402	52.230
66) 1,2-Dichloroethane	(1)	7.383	62	390952	51.159
67) 1,2-Dichloroethane(mz98)	(1)	7.383	98	32386A	51.430
68) t-Amyl Methyl Ether	(1)	7.493	73	814794	53.392
69) n-Heptane	(1)	7.706	43	723822	56.044
70)*Fluorobenzene	(1)	7.706	96	881263	50.000
73) n-Butanol	(4)	8.043	56	587012	1236.726
74) Trichloroethene	(1)	8.183	95	244404	52.783
76) Methylcyclohexane	(1)	8.491	83	372533	53.627
79) 1,2-Dichloropropane	(1)	8.527	63	346489	52.243
81) Methyl Methacrylate	(1)	8.593	69	307584	51.958
82) 1,4-Dioxane	(4)	8.601	88	45921M	663.955
80) Dibromomethane	(1)	8.637	93	211810	51.926
83) Bromodichloromethane	(1)	8.865	83	334479	54.504
84) 2-Nitropropane	(1)	9.136	41	342805	96.583
85) 2-Chloroethyl Vinyl Ether	(1)	9.224	63	304088	51.402
87) cis-1,3-Dichloropropene	(1)	9.407	75	450219	55.173
88) 4-Methyl-2-Pentanone	(1)	9.569	58	582512	93.424
90)$Toluene-d8	(2)	9.708	98	790685	49.298
91)$Toluene-d8(mz100)	(2)	9.708	100	534430	49.184
93) Toluene	(2)	9.781	92	563602	51.553
96) trans-1,3-Dichloropropene	(2)	10.045	75	418708	55.506
97) Ethyl Methacrylate	(2)	10.097	69	503196	52.552
98) 1,1,2-Trichloroethane	(2)	10.251	97	243590	50.475
99) Tetrachloroethene	(2)	10.324	166	230614	53.836
100) 1,3-Dichloropropane	(2)	10.412	76	485831	52.044
101) 2-Hexanone	(2)	10.456	58	668938	93.282
103) Dibromochloromethane	(2)	10.625	129	257362	56.718

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 05/18/2012 at 07:30.
Target 3.5 esignature user ID: lcp00895

ASX73 0300

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
104) 1,2-Dibromoethane	(2)	10.742	107	296333	53.672
107)*Chlorobenzene-d5	(2)	11.167	117	578317	50.000
108) Chlorobenzene	(2)	11.189	112	594952	52.396
114) Ethylbenzene	(2)	11.277	106	298446	52.049
111) 1,1,1,2-Tetrachloroethane	(2)	11.277	131	197621	55.335
116) Xylene (Total)	(2)		106	1095638	180.331
115) m+p-Xylene	(2)	11.387	106	736766A	128.396
117) o-Xylene	(2)	11.725	106	358872	51.934
119) Styrene	(2)	11.739	104	640295	52.913
120) Bromoform	(2)	11.901	173	209187	53.233
121) Isopropylbenzene	(2)	12.025	105	857260	53.317
125)$4-Bromofluorobenzene(mz174)	(2)	12.165	174	246777	51.053
124)$4-Bromofluorobenzene	(2)	12.172	95	330421	49.817
126) 1,1,2,2-Tetrachloroethane	(3)	12.267	83	515465	52.112
127) Bromobenzene	(3)	12.282	156	258810	51.433
129) trans-1,4-Dichloro-2-Butene	(3)	12.297	53	445223	129.101
128) 1,2,3-Trichloropropane	(3)	12.319	110	105541	51.090
130) n-Propylbenzene	(3)	12.355	91	1225906	55.744
131) 2-Chlorotoluene	(3)	12.429	126	220461	52.105
132) 1,3,5-Trimethylbenzene	(3)	12.487	105	738962	53.355
133) 4-Chlorotoluene	(3)	12.524	126	232508	51.603
134) tert-Butylbenzene	(3)	12.729	134	154412	55.053
135) Pentachloroethane	(3)	12.766	167	150541	52.860
137) 1,2,4-Trimethylbenzene	(3)	12.773	105	746447	51.900
138) sec-Butylbenzene	(3)	12.898	105	921401	54.951
139) 1,3-Dichlorobenzene	(3)	12.993	146	443947	51.130
140) p-Isopropyltoluene	(3)	13.001	119	729374	54.489
141)*1,4-Dichlorobenzene-d4	(3)	13.052	152	293047	50.000
142) 1,4-Dichlorobenzene	(3)	13.074	146	463623	51.631
143) 1,2,3-Trimethylbenzene	(3)	13.081	105	790420	50.944
144) Benzyl Chloride	(3)	13.147	91	702294	55.126
145) 1,3-Diethylbenzene	(3)	13.206	119	442504	52.585
146) 1,4-Diethylbenzene	(3)	13.279	119	458748	52.244
147) n-Butylbenzene	(3)	13.301	92	500472	54.193
148) 1,2-Dichlorobenzene	(3)	13.331	146	431577	51.536
149) 1,2-Diethylbenzene	(3)	13.345	119	362446	51.278
151) 1,2-Dibromo-3-Chloropropane	(3)	13.881	75	89160	44.315
153) 1,3,5-Trichlorobenzene	(3)	13.998	180	314358	53.764

A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 05/18/2012 at 07:30.
Target 3.5 esignature user ID: lcp00895

ASX73 9301

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i03.d
Injection date and time: 17-MAY-2012 14:23

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
154) 1,2,4-Trichlorobenzene	(3)	14.423	180	279377	54.176
155) Hexachlorobutadiene	(3)	14.497	225	125717	56.669
156) Naphthalene	(3)	14.614	128	877239	56.274
157) 1,2,3-Trichlorobenzene	(3)	14.746	180	268978	55.226

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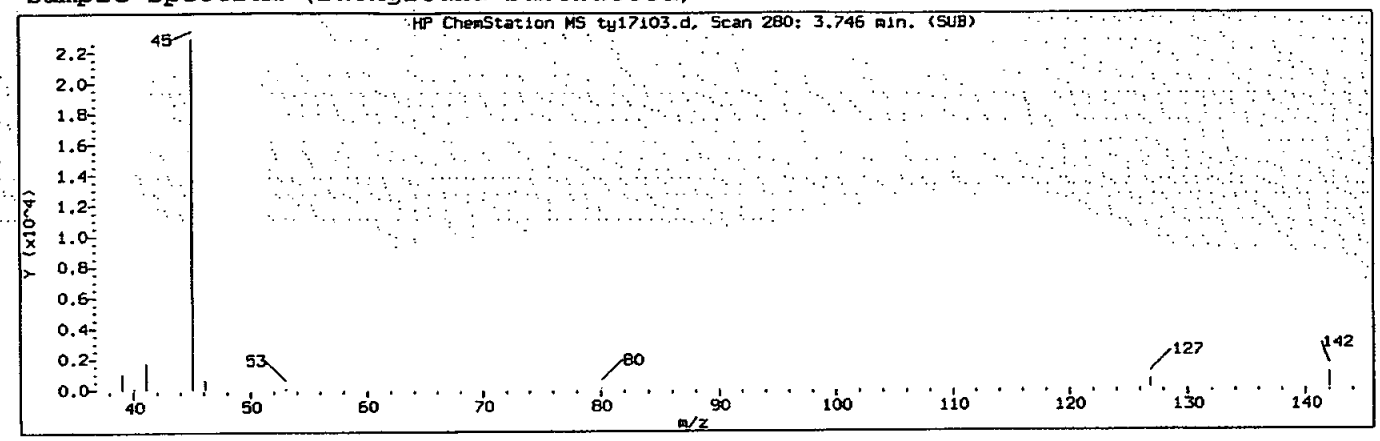
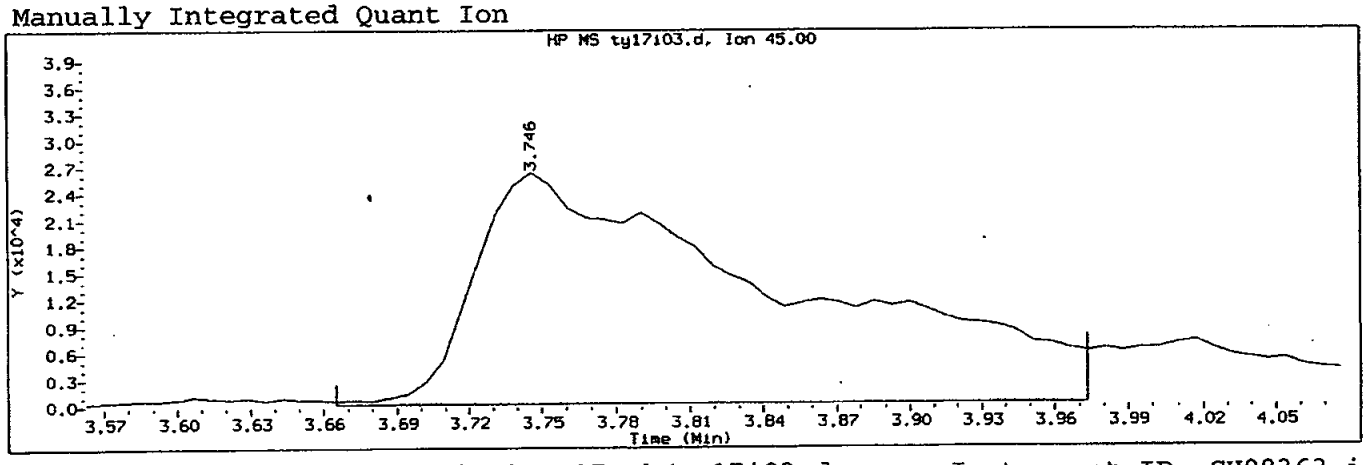
on 05/18/2012 at 07:30.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 23		
Compound Name	: 2-Propanol		
Scan Number	: 280		
Retention Time (minutes)	: 3.746		
Quant Ion	: 45.00		
Area (flag)	: 231278M		
On-Column Amount (ng)	: 248.7036		
Integration start scan	: 268	Integration stop scan:	310
Y at integration start	: 206	Y at integration end:	206

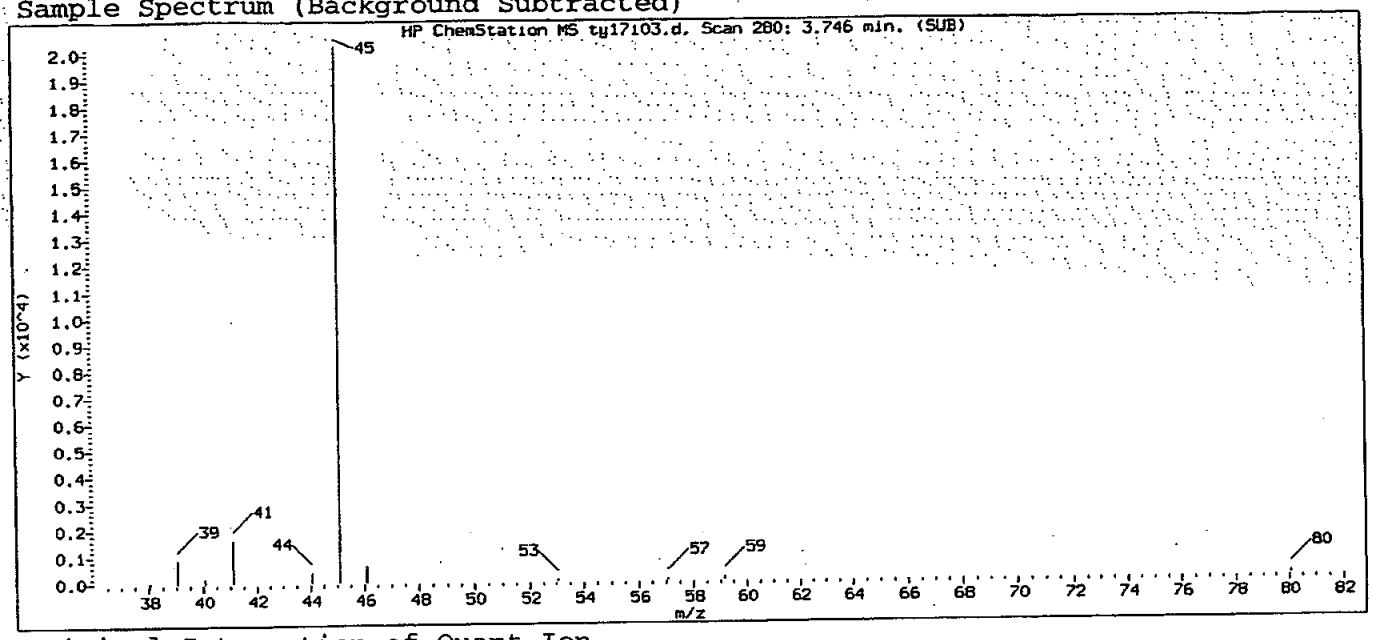
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:30. Target 3.5 esignature user ID: lcp00895

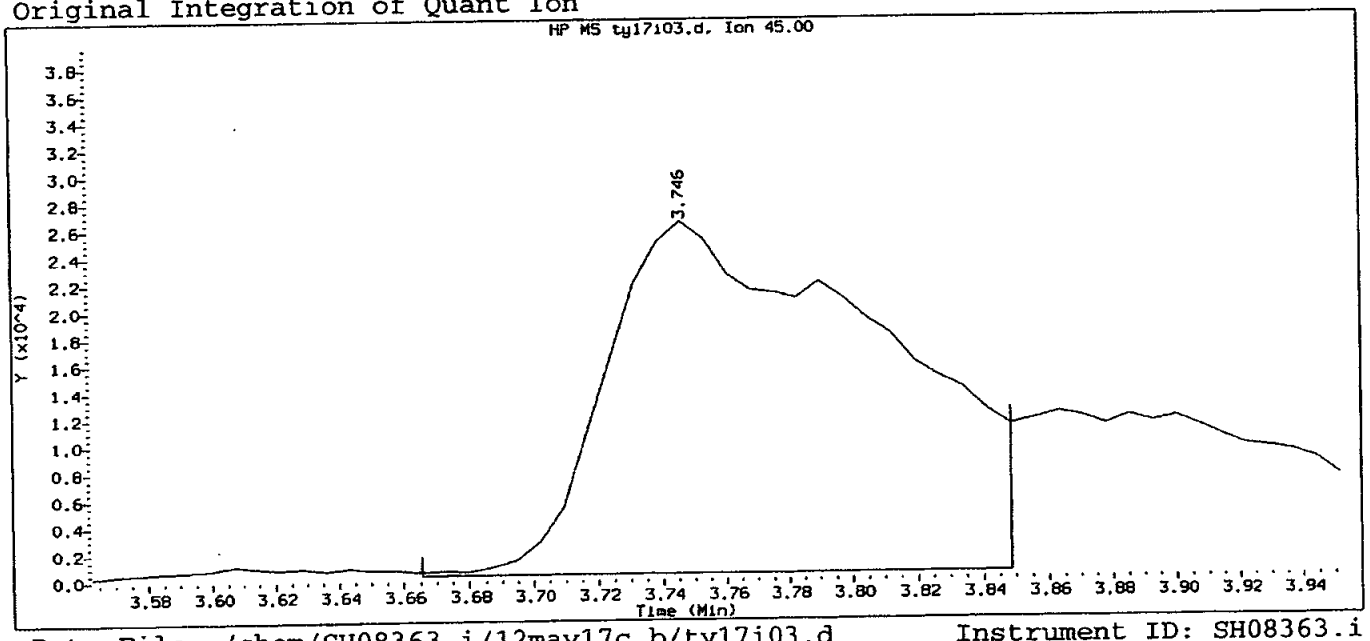
GC/MS audit/management approval: 5/21/12

ASX73 9383

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d
Injection date and time: 17-MAY-2012 14:23

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compound Number	: 23		
Compound Name	: 2-Propanol		
Scan Number	: 280		
Retention Time (minutes)	: 3.746		
Quant Ion	: 45.00		
Area	: 157190		
On-column Amount (ng)	: 181.1632		
Integration start scan	: 268	Integration stop scan:	293
Y at integration start	: 284	Y at integration end:	284

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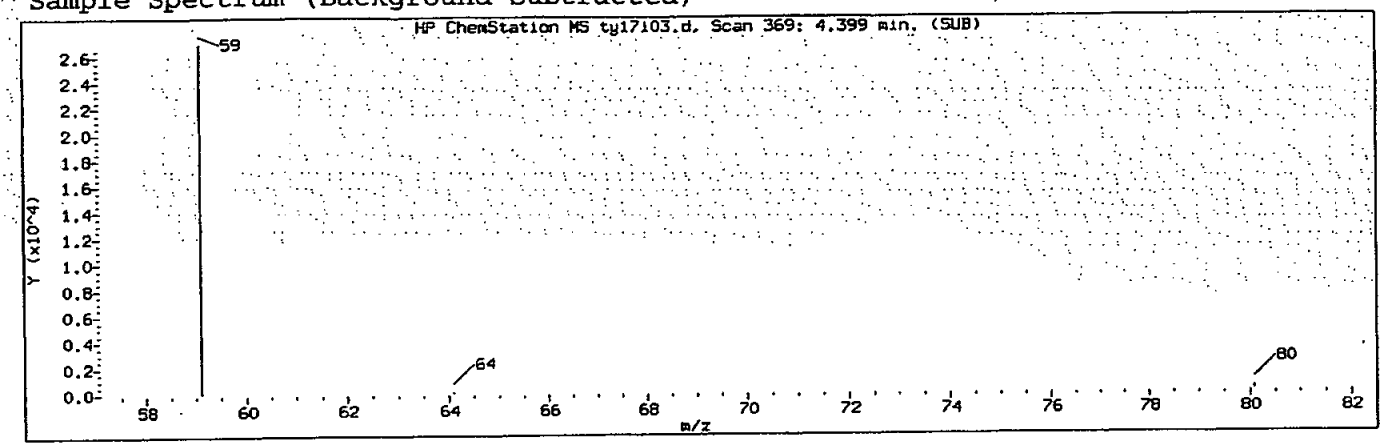
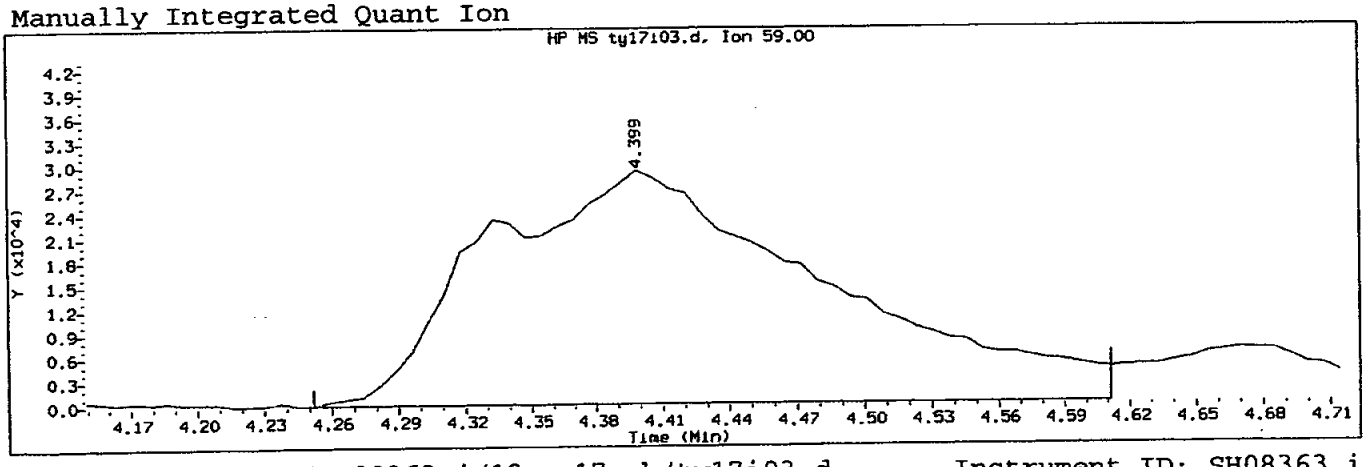
Target 3.5 esignature user ID: lcp00895

ASX73 9304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

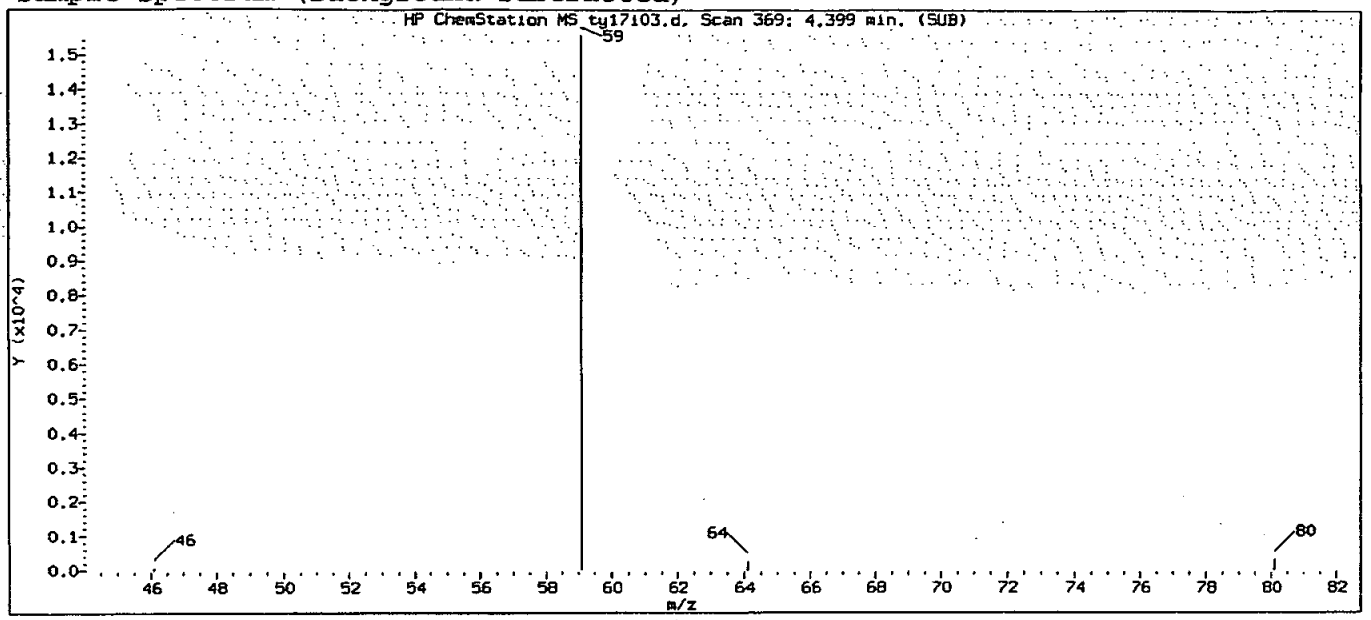
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 369		
Retention Time (minutes)	: 4.399		
Quant Ion	: 59.00		
Area (flag)	: 310380M		
On-Column Amount (ng)	: 299.3393		
Integration start scan	: 348	Integration stop scan:	397
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

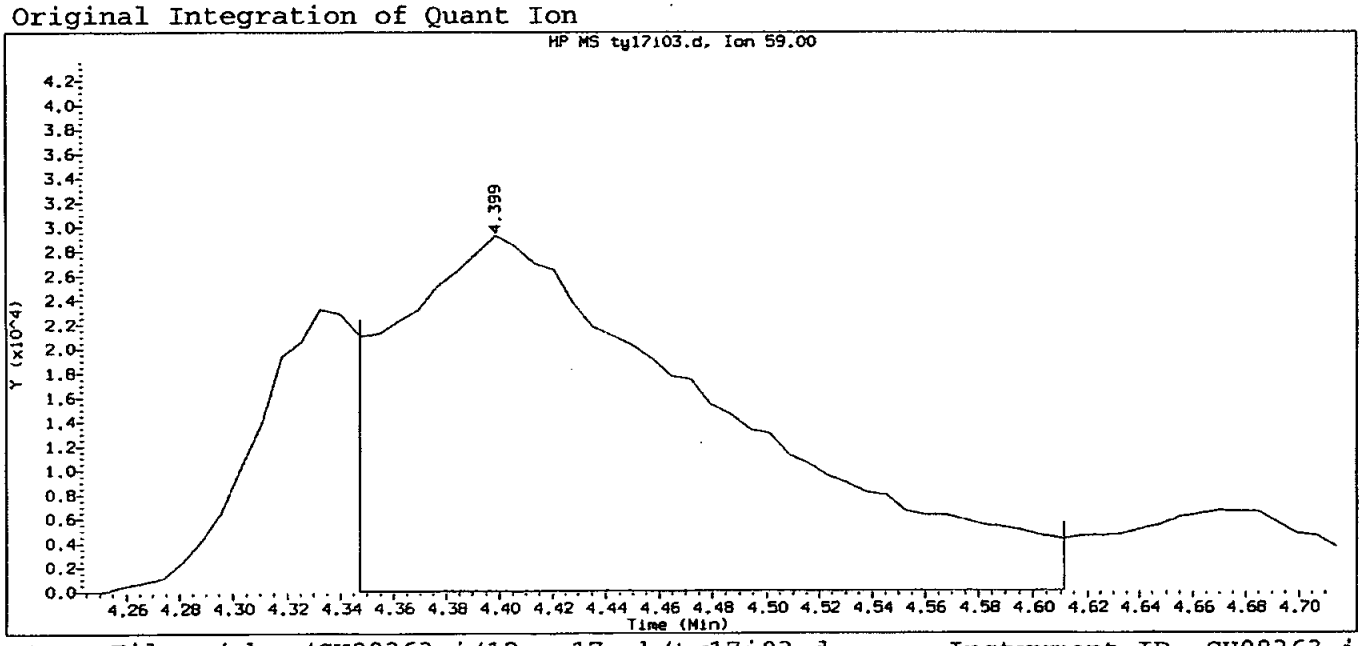
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:30. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

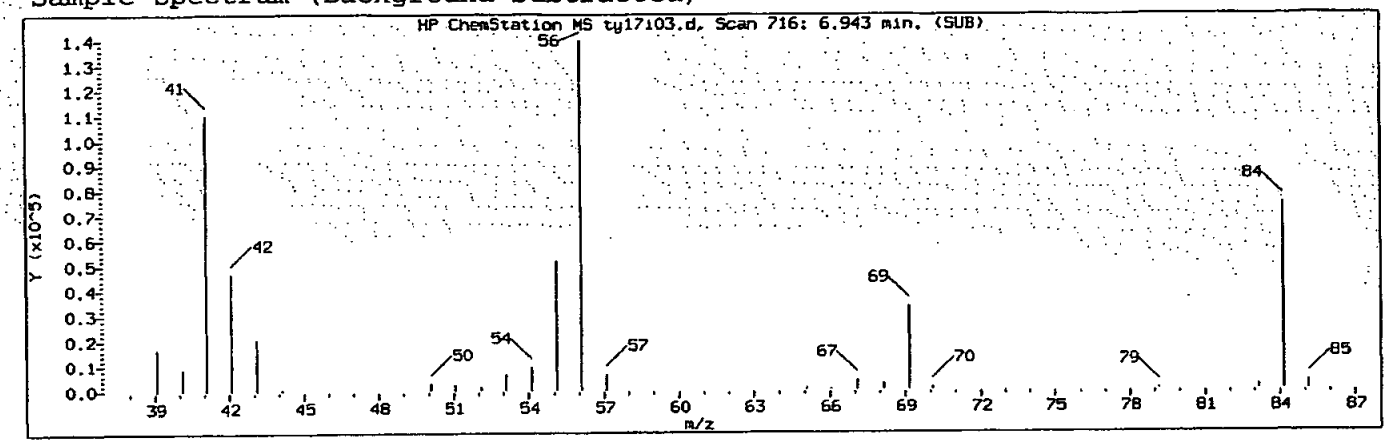
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

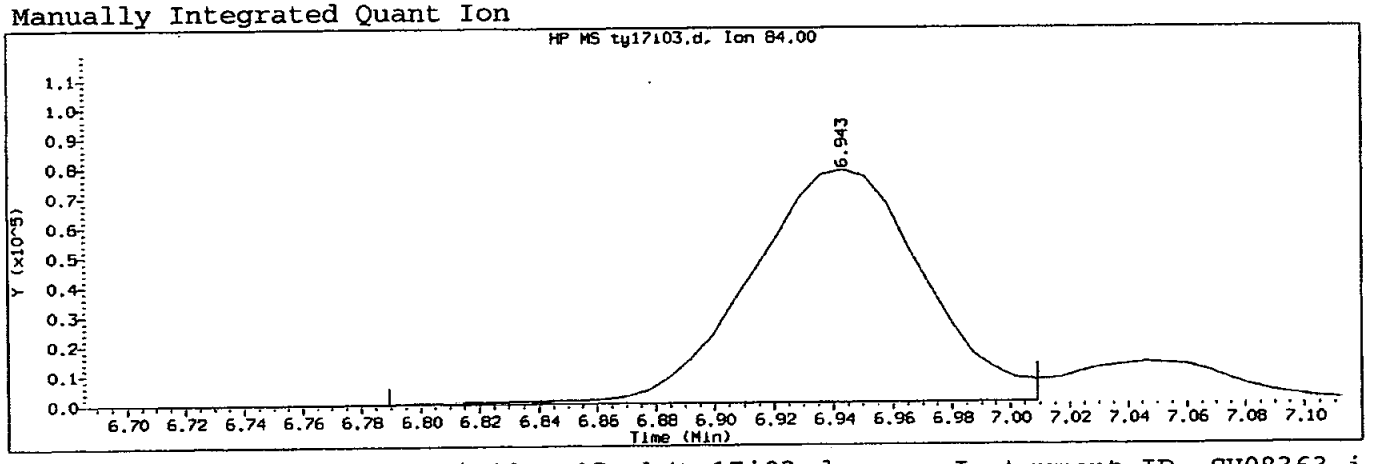
Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 369
Retention Time (minutes): 4.399
Quant Ion : 59.00
Area : 249500
On-column Amount (ng) : 270.8005
Integration start scan : 361 Integration stop scan: 397
Y at integration start : 0 Y at integration end: 0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:30.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

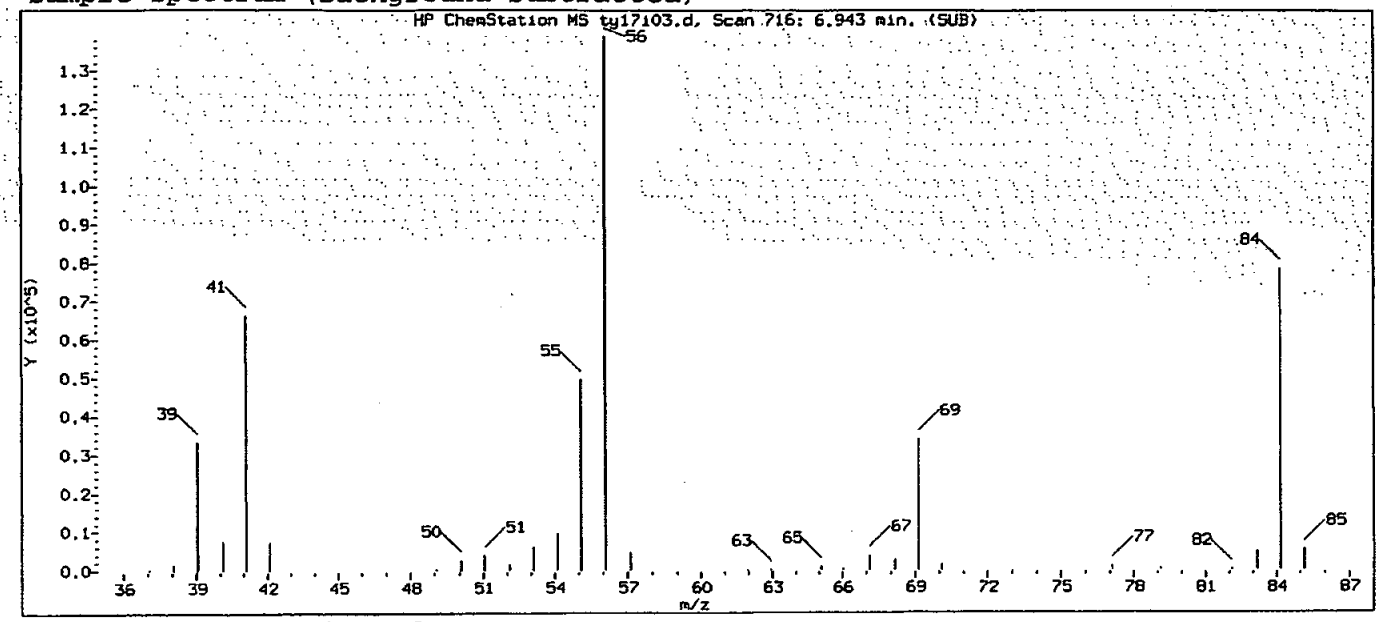
Compound Number : 57
Compound Name : Cyclohexane(mz84)
Scan Number : 716
Retention Time (minutes): 6.943
Quant Ion : 84.00
Area (flag) : 321206M
On-Column Amount (ng) : 52.6707
Integration start scan : 694 Integration stop scan: 724
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

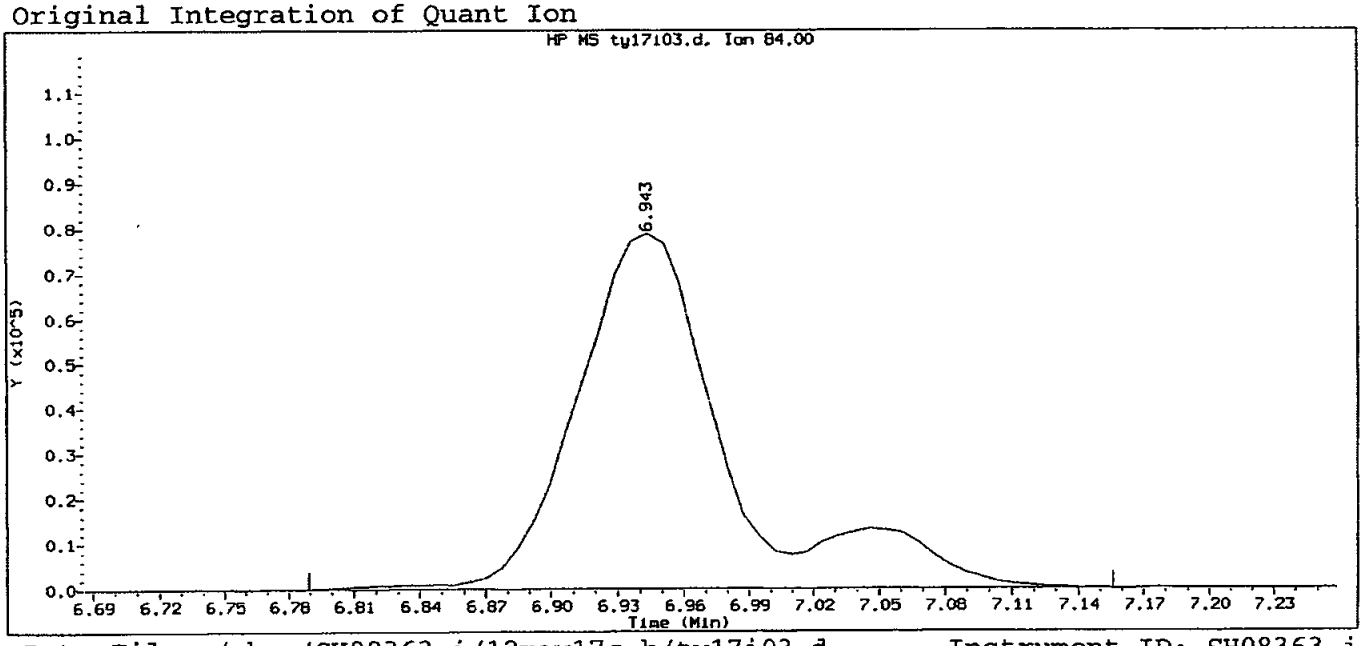
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:30. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: 7/2/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 57
Compound Name : Cyclohexane(mz84)
Scan Number : 716
Retention Time (minutes): 6.943
Quant Ion : 84.00
Area : 370931
On-column Amount (ng) : 56.1561
Integration start scan : 694 Integration stop scan: 744
Y at integration start : 0 Y at integration end: 0

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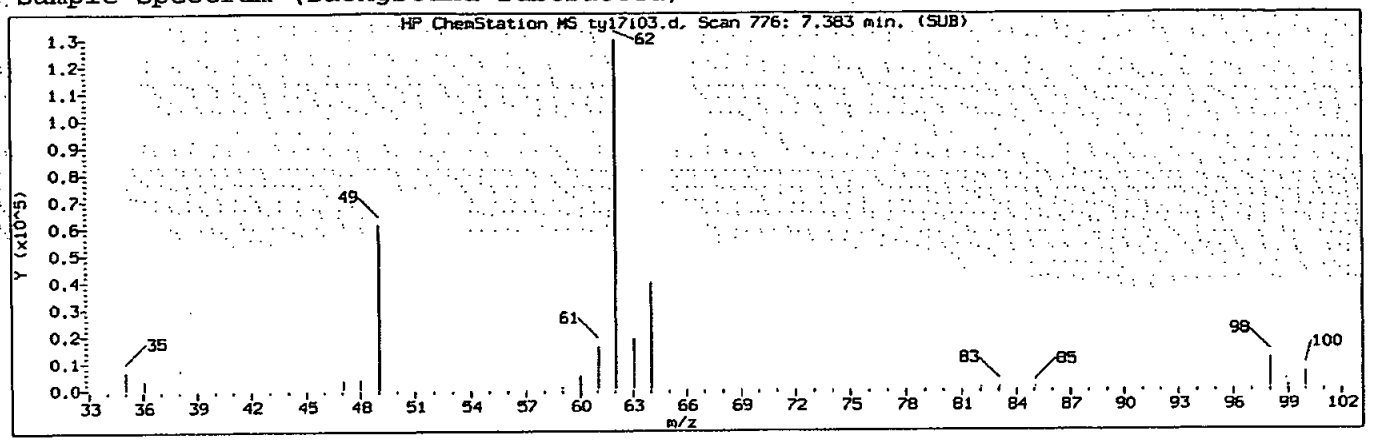
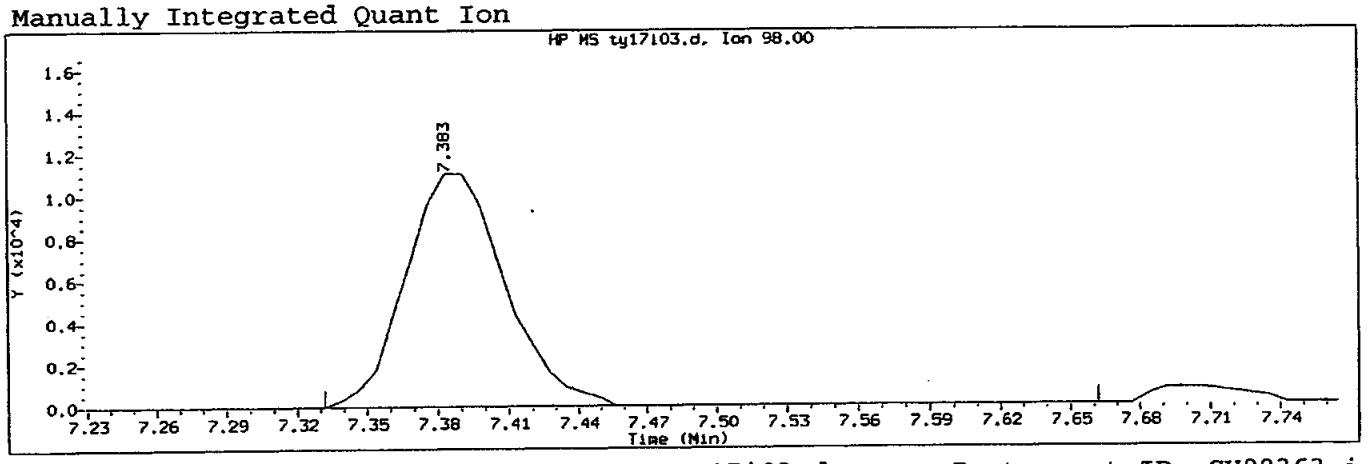
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 67		
Compound Name	: 1,2-Dichloroethane(mz98)		
Scan Number	: 776		
Retention Time (minutes)	: 7.383		
Quant Ion	: 98.00		
Area (flag)	: 32386A		
On-Column Amount (ng)	: 51.4302		
Integration start scan	: 768	Integration stop scan:	813
Y at integration start	: 0	Y at integration end:	0

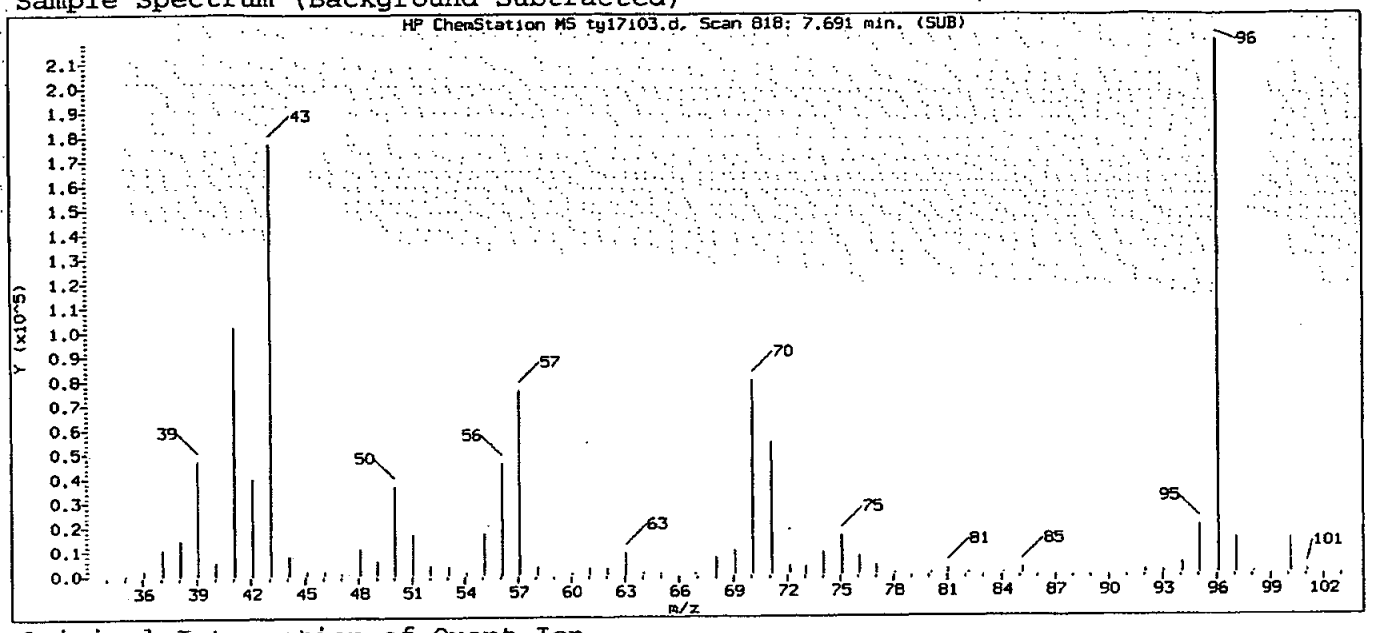
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:30. Target 3.5 esignature user ID: lcp00895

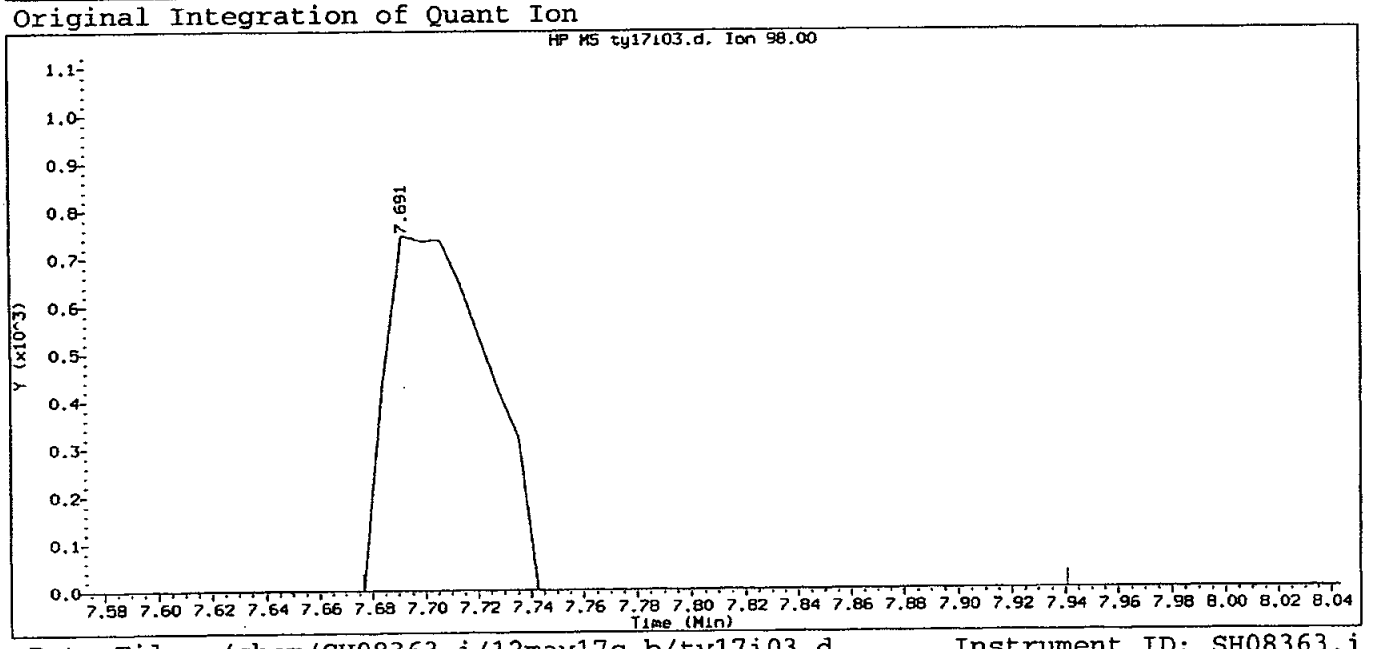
GC/MS audit/management approval: 5/21/12

ASX73 0389

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 67
Compound Name : 1,2-Dichloroethane(mz98)
Scan Number : 818
Retention Time (minutes): 7.691
Quant Ion : 98.00
Area : 2011
On-column Amount (ng) : 62.1793
Integration start scan : 815 Integration stop scan: 851
Y at integration start : 0 Y at integration end: 0

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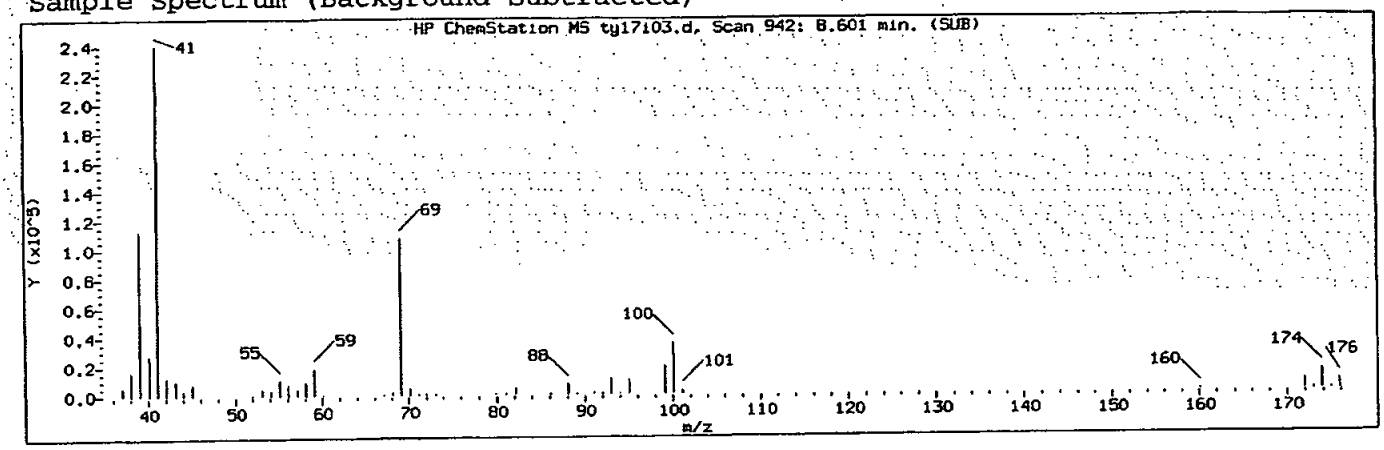
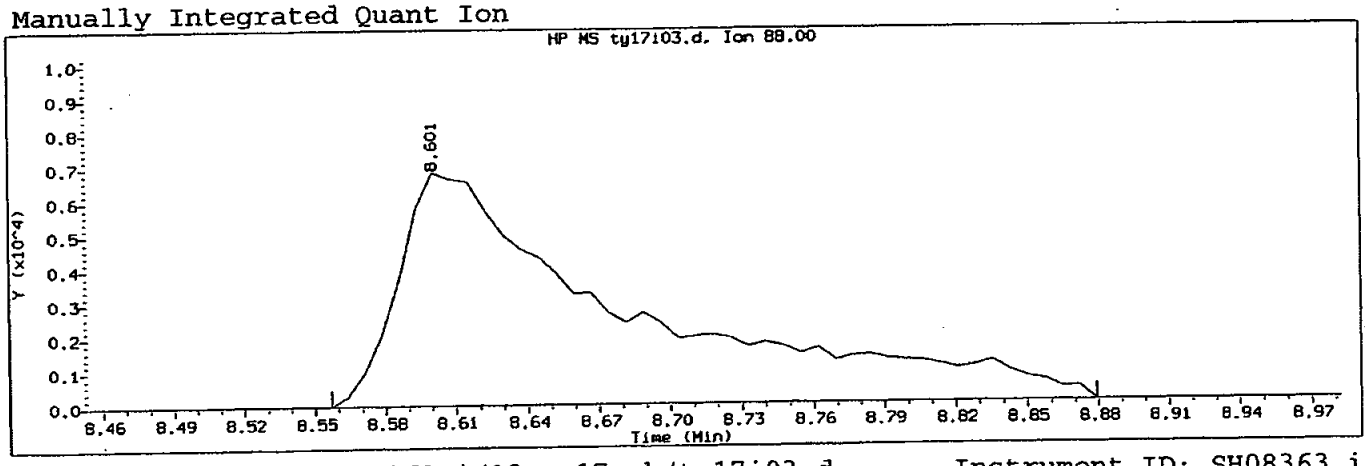
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

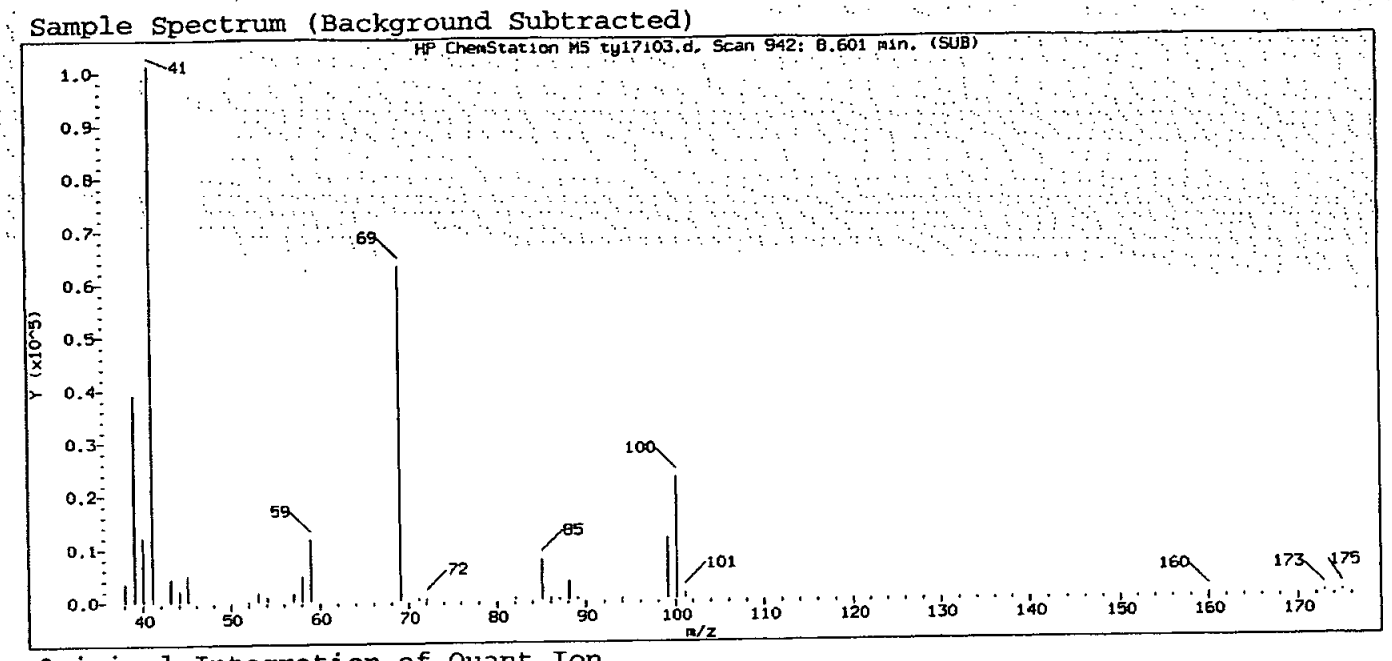
Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 942		
Retention Time (minutes)	: 8.601		
Quant Ion	: 88.00		
Area (flag)	: 45921M		
On-Column Amount (ng)	: 663.9547		
Integration start scan	: 935	Integration stop scan:	979
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

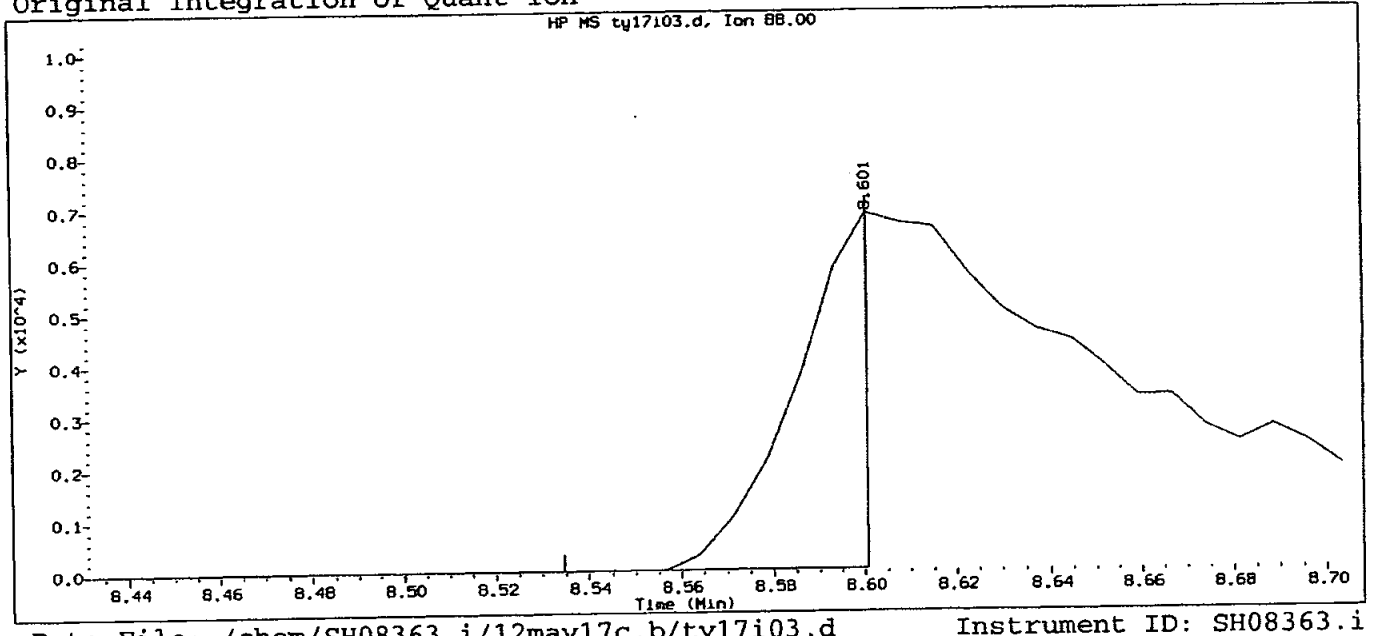
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:30. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d
Injection date and time: 17-MAY-2012 14:23

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sublist used: 8260WI-F

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compound Number	: 82
Compound Name	: 1,4-Dioxane
Scan Number	: 942
Retention Time (minutes)	: 8.601
Quant Ion	: 88.00
Area	: 7192
On-column Amount (ng)	: 128.3042
Integration start scan	: 932
Integration stop scan	: 941
Y at integration start	: 0
Y at integration end	: 0

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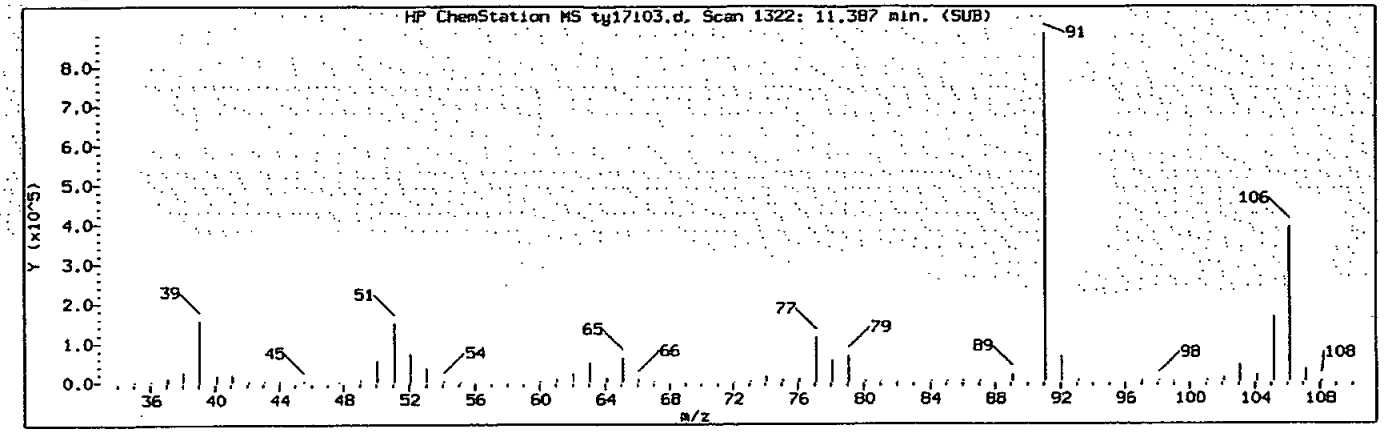
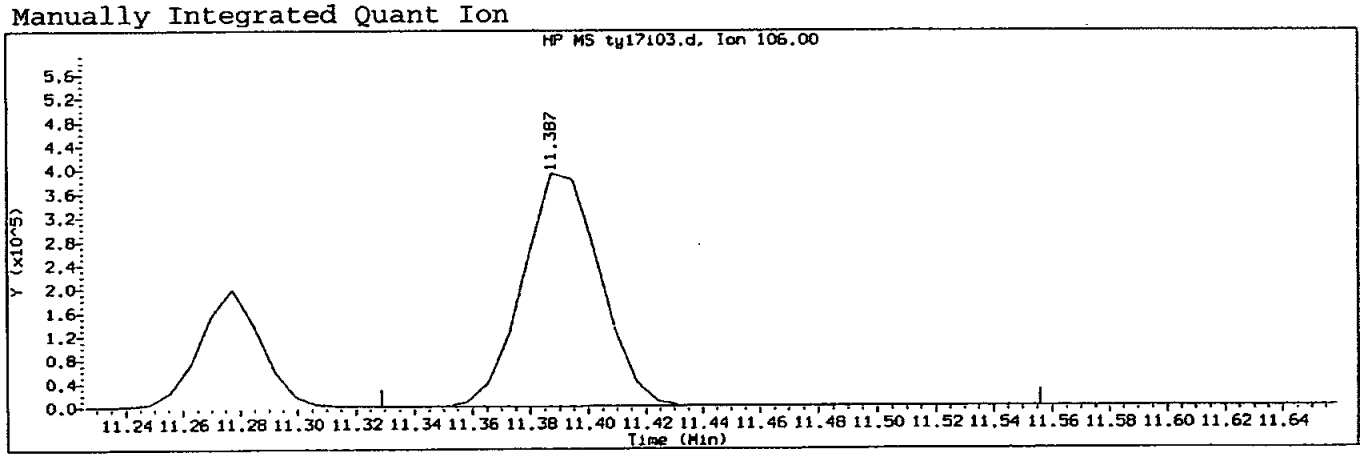
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:23 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:30 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 115
Compound Name : m+p-Xylene
Scan Number : 1322
Retention Time (minutes): 11.387
Quant Ion : 106.00
Area (flag) : 736766A
On-Column Amount (ng) : 128.3963
Integration start scan : 1313 Integration stop scan: 1344
Y at integration start : 0 Y at integration end: 0

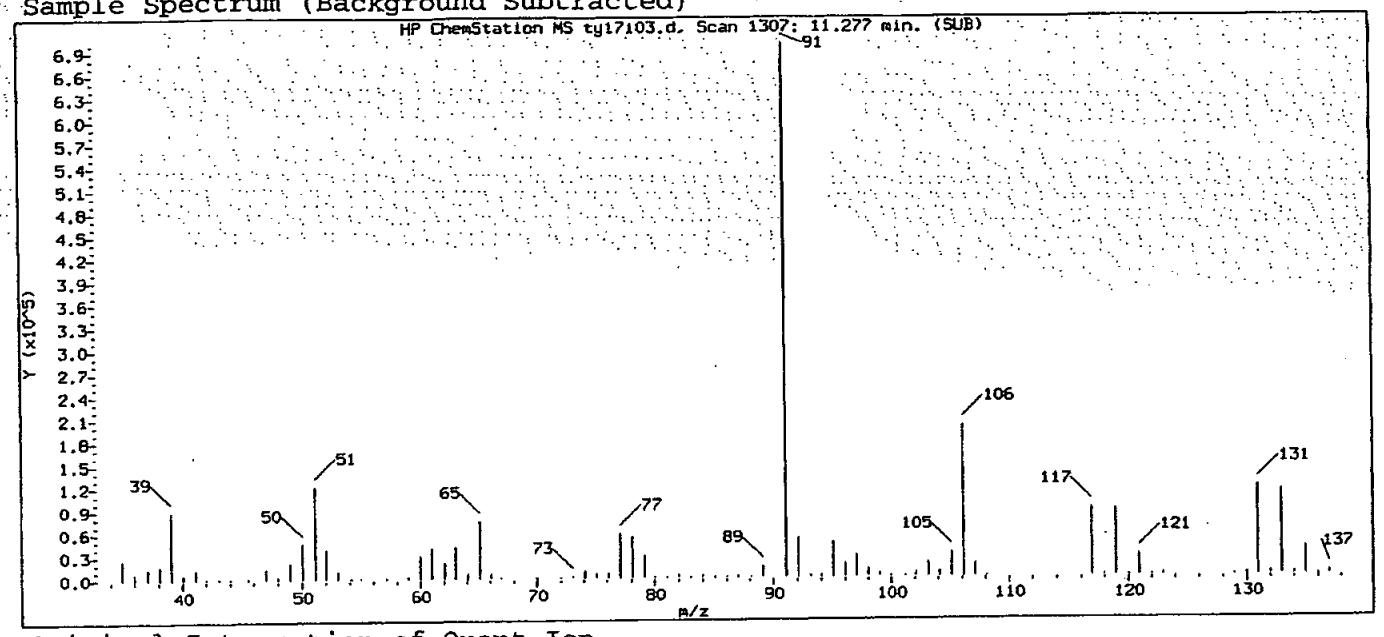
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:30. Target 3.5 esignature user ID: lcp00895

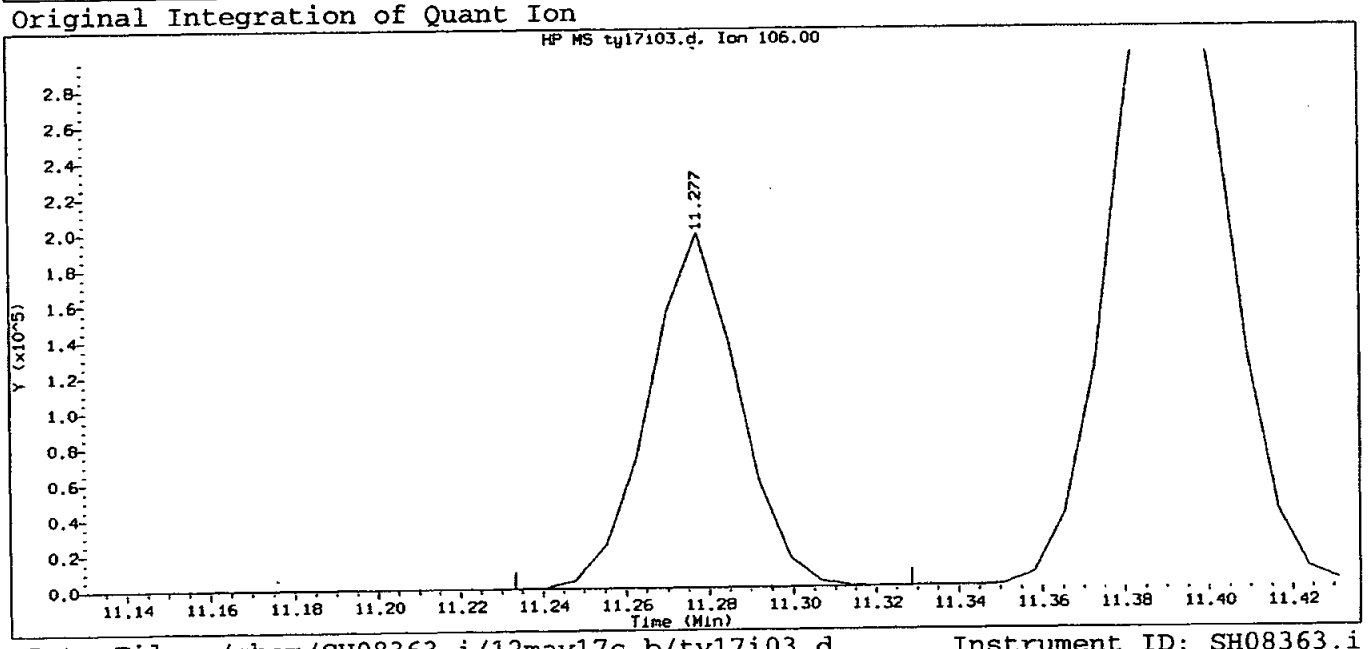
GC/MS audit/management approval: _____ 7/11/12

ASX73 0313

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i03.d
Injection date and time: 17-MAY-2012 14:23

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sublist used: 8260WI-F

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compound Number	: 115		
Compound Name	: m+p-Xylene		
Scan Number	: 1307		
Retention Time (minutes)	: 11.277		
Quant Ion	: 106.00		
Area	: 298446		
On-column Amount (ng)	: 83.0218		
Integration start scan	: 1300	Integration stop scan:	1313
Y at integration start	: 0	Y at integration end:	0

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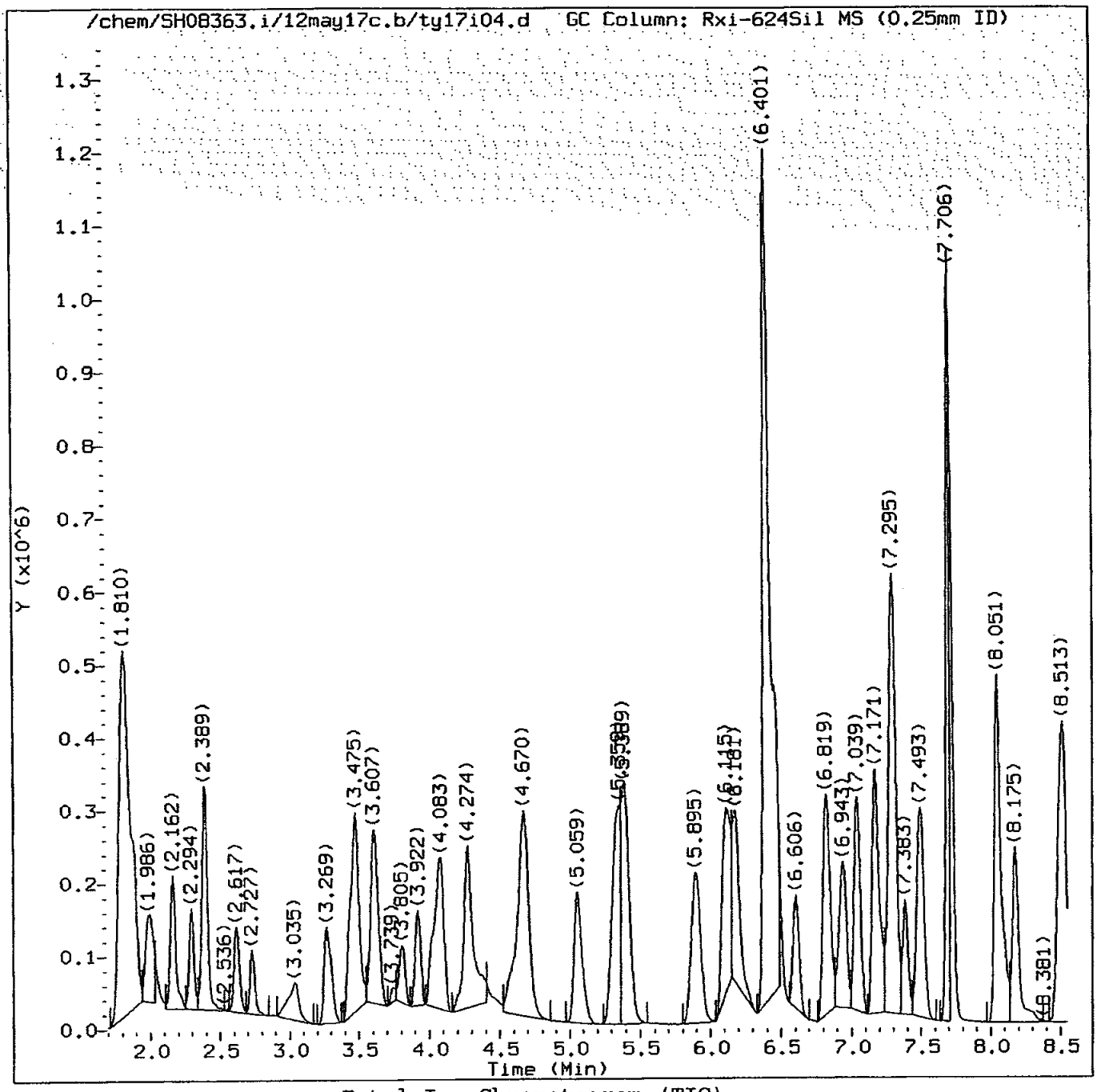
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i04.d
Injection date and time: 17-MAY-2012 14:47

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

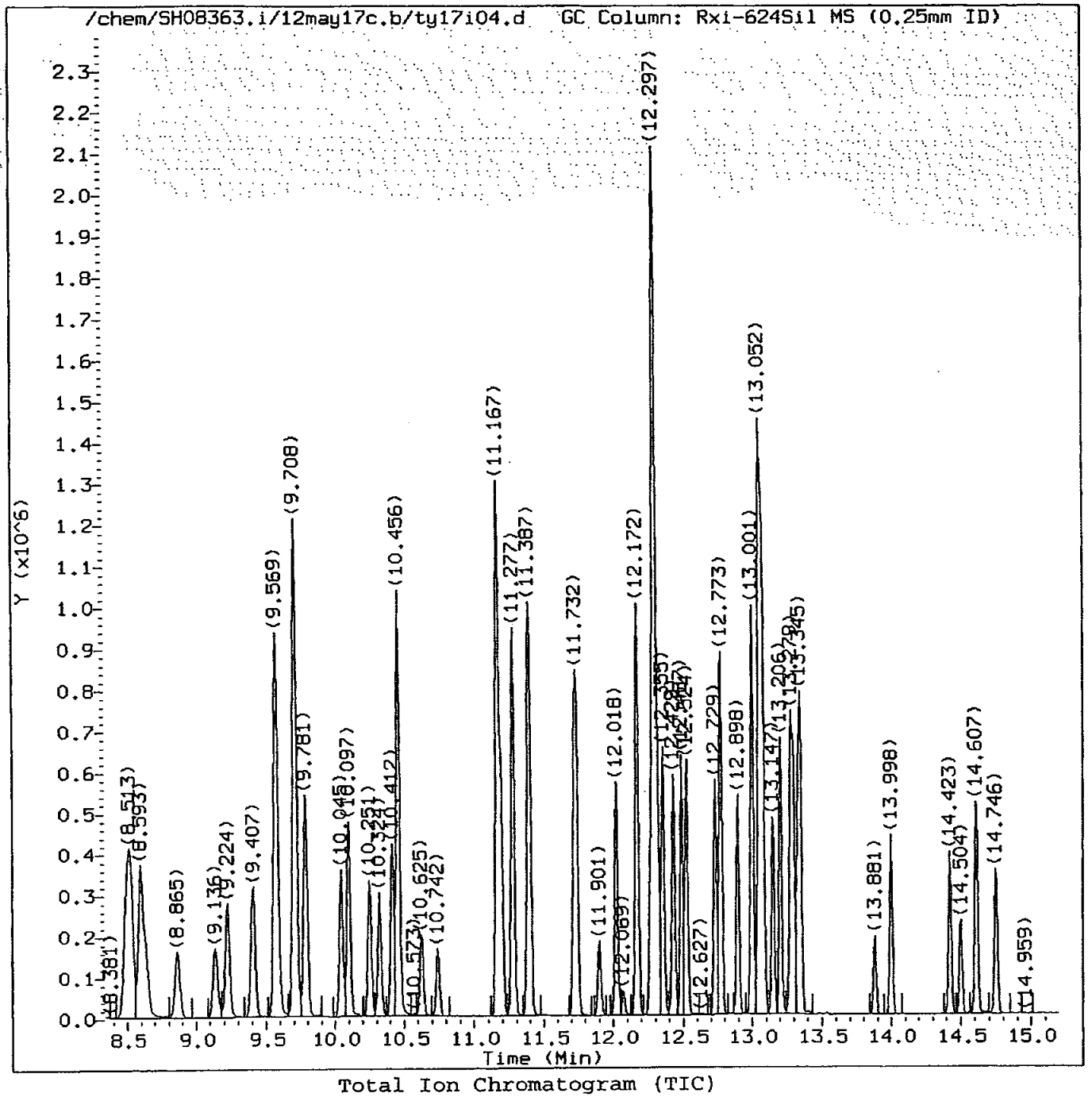
Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020

Lab Sample ID: VSTD020

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i04.d
Injection date and time: 17-MAY-2012 14:47

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020

Lab Sample ID: VSTD020

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895

ASX73 0316

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.015	85	180021	21.753
2) Chloromethane	(1)	2.162	50	292345	20.343
4) Vinyl Chloride	(1)	2.294	62	189684	20.634
7) Bromomethane	(1)	2.624	94	112730	20.914
8) Chloroethane	(1)	2.727	64	100339	20.497
13) Trichlorofluoromethane	(1)	3.035	101	110341	20.518
15) Ethyl Ether	(1)	3.269	59	135248	22.747
17) Acrolein	(4)	3.475	56	671754	229.318
18) 1,1-Dichloroethene	(1)	3.607	96	79925	20.635
21) Acetone	(1)	3.614	58	54573M	43.233
19) Freon 113	(1)	3.621	101	76769	19.870
23) 2-Propanol	(4)	3.753	45	195668M	230.998
22) Methyl Iodide	(1)	3.812	142	163911	21.282
24) Carbon Disulfide	(1)	3.922	76	319305	20.076
26) Methyl Acetate	(1)	4.017	43	335406	20.585
25) Allyl Chloride	(1)	4.083	41	357962	20.648
28)*t-Butyl Alcohol-d10	(4)	4.259	65	247731	250.000
27) Methylene Chloride	(1)	4.274	84	114410	19.582
29) t-Butyl Alcohol	(4)	4.384	59	245735M	260.183
30) Acrylonitrile	(1)	4.582	53	121675	20.490
31) Methyl Tertiary Butyl Ether	(1)	4.670	73	320510	21.428
32) trans-1,2-Dichloroethene	(1)	4.677	96	94754	20.776
34) n-Hexane	(1)	5.051	57	147865	17.719
36) 1,1-Dichloroethane	(1)	5.308	63	224096	20.632
41) 1,2-Dichloroethene (total)	(1)		96	202316	41.859
37) di-Isopropyl Ether	(1)	5.359	45	743627	21.454
40) 2-Chloro-1,3-Butadiene	(1)	5.411	53	206604	20.514
42) Ethyl t-Butyl Ether	(1)	5.895	59	427615	21.218
45) 2-Butanone	(1)	6.093	43	469876	41.917
44) cis-1,2-Dichloroethene	(1)	6.122	96	107562	21.082
43) 2,2-Dichloropropane	(1)	6.166	77	116970	21.331
46) Propionitrile	(4)	6.188	54	457226	217.155
47) Methacrylonitrile	(1)	6.401	67	430194	103.821
50) Tetrahydrofuran	(4)	6.459	71	61453	43.175
49) Bromochloromethane	(1)	6.467	128	54093	20.099
52) Chloroform	(1)	6.606	83	182985	20.551
53)$Dibromofluoromethane(mz111)	(1)	6.819	111	250930	50.925
54)$Dibromofluoromethane	(1)	6.819	113	250880	51.536

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	6.841	97	104503	20.885
57) Cyclohexane(mz84)	(1)	6.936	84	112332M	18.635
56) Cyclohexane(mz69)	(1)	6.943	69	49314	19.424
58) Cyclohexane	(1)	6.943	56	206445	19.148
59) 1,1-Dichloropropene	(1)	7.039	75	141424	21.316
60) Carbon Tetrachloride	(1)	7.053	117	82656	21.399
61) Isobutyl Alcohol	(4)	7.171	41	384510	522.447
64)$1,2-Dichloroethane-d4(mz65)	(1)	7.281	65	313781	51.713
62)$1,2-Dichloroethane-d4	(1)	7.281	102	59858	49.776
63)$1,2-Dichloroethane-d4(mz104)	(1)	7.288	104	37996	49.338
65) Benzene	(1)	7.303	78	411126	20.880
66) 1,2-Dichloroethane	(1)	7.383	62	156200	20.679
67) 1,2-Dichloroethane(mz98)	(1)	7.383	98	12675A	22.133
68) t-Amyl Methyl Ether	(1)	7.493	73	322817	21.401
69) n-Heptane	(1)	7.706	43	221273	17.333
70)*Fluorobenzene	(1)	7.706	96	871078	50.000
73) n-Butanol	(4)	8.051	56	431921	999.014
74) Trichloroethene	(1)	8.175	95	95146	20.789
76) Methylcyclohexane	(1)	8.498	83	143044	20.832
79) 1,2-Dichloropropane	(1)	8.527	63	136824	20.871
81) Methyl Methacrylate	(1)	8.593	69	121744	20.806
82) 1,4-Dioxane	(4)	8.608	88	29266M	464.551
80) Dibromomethane	(1)	8.630	93	84796	21.031
83) Bromodichloromethane	(1)	8.865	83	125044	20.615
84) 2-Nitropropane	(1)	9.136	41	142508	40.620
85) 2-Chloroethyl Vinyl Ether	(1)	9.224	63	116658	19.950
87) cis-1,3-Dichloropropene	(1)	9.407	75	173855	21.554
88) 4-Methyl-2-Pentanone	(1)	9.569	58	282499	45.837
90)$Toluene-d8	(2)	9.708	98	783319	48.510
91)$Toluene-d8(mz100)	(2)	9.708	100	532262	48.656
93) Toluene	(2)	9.781	92	224777	20.422
96) trans-1,3-Dichloropropene	(2)	10.045	75	157429	20.729
97) Ethyl Methacrylate	(2)	10.097	69	193456	20.068
98) 1,1,2-Trichloroethane	(2)	10.251	97	102729	21.144
99) Tetrachloroethene	(2)	10.324	166	86821	20.132
100) 1,3-Dichloropropane	(2)	10.412	76	193633	20.603
101) 2-Hexanone	(2)	10.456	58	337754	46.782
103) Dibromochloromethane	(2)	10.625	129	93941	20.564

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895

ASX73 0318

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
104) 1,2-Dibromoethane	(2)	10.742	107	113687	20.453
107) *Chlorobenzene-d5	(2)	11.160	117	582230	50.000
108) Chlorobenzene	(2)	11.189	112	230259	20.142
114) Ethylbenzene	(2)	11.277	106	111922	19.388
111) 1,1,1,2-Tetrachloroethane	(2)	11.277	131	75955	21.125
116) Xylene (Total)	(2)		106	413409	83.938
115) m+p-Xylene	(2)	11.387	106	277581A	64.414
117) o-Xylene	(2)	11.717	106	135828	19.524
119) Styrene	(2)	11.739	104	238235	19.555
120) Bromoform	(2)	11.901	173	76739	19.924
121) Isopropylbenzene	(2)	12.018	105	309882	19.144
124) $4-Bromofluorobenzene	(2)	12.172	95	320008	47.922
125) $4-Bromofluorobenzene(mz174)	(2)	12.172	174	240074	49.333
126) 1,1,2,2-Tetrachloroethane	(3)	12.267	83	208182	21.532
127) Bromobenzene	(3)	12.282	156	100283	20.388
129) trans-1,4-Dichloro-2-Butene	(3)	12.297	53	369791	109.699
128) 1,2,3-Trichloropropane	(3)	12.319	110	41462	20.533
130) n-Propylbenzene	(3)	12.355	91	433372	20.160
131) 2-Chlorotoluene	(3)	12.429	126	81791	19.776
132) 1,3,5-Trimethylbenzene	(3)	12.487	105	257083	18.990
133) 4-Chlorotoluene	(3)	12.524	126	86463	19.632
134) tert-Butylbenzene	(3)	12.729	134	54208	19.772
135) Pentachloroethane	(3)	12.766	167	56553	20.315
137) 1,2,4-Trimethylbenzene	(3)	12.773	105	273451	19.451
138) sec-Butylbenzene	(3)	12.898	105	309078	18.858
139) 1,3-Dichlorobenzene	(3)	12.993	146	161694	19.052
140) p-Isopropyltoluene	(3)	13.001	119	246860	18.867
141) *1,4-Dichlorobenzene-d4	(3)	13.052	152	286446	50.000
142) 1,4-Dichlorobenzene	(3)	13.067	146	173191	19.732
143) 1,2,3-Trimethylbenzene	(3)	13.081	105	306736	20.225
144) Benzyl Chloride	(3)	13.147	91	258440	20.754
145) 1,3-Diethylbenzene	(3)	13.199	119	167109	20.316
146) 1,4-Diethylbenzene	(3)	13.279	119	171338	19.962
147) n-Butylbenzene	(3)	13.294	92	167656	18.573
148) 1,2-Dichlorobenzene	(3)	13.331	146	160041	19.551
149) 1,2-Diethylbenzene	(3)	13.345	119	138826	20.093
151) 1,2-Dibromo-3-Chloropropane	(3)	13.881	75	33858M	17.216
153) 1,3,5-Trichlorobenzene	(3)	13.998	180	106549	18.643

M = Compound was manually integrated.
A = User selected an alternate hit.
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$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: lcp00895

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
154) 1,2,4-Trichlorobenzene	(3)	14.423	180	97501	19.343
155) Hexachlorobutadiene	(3)	14.497	225	40282	18.576
156) Naphthalene	(3)	14.607	128	307114	20.155
157) 1,2,3-Trichlorobenzene	(3)	14.746	180	90782	19.069

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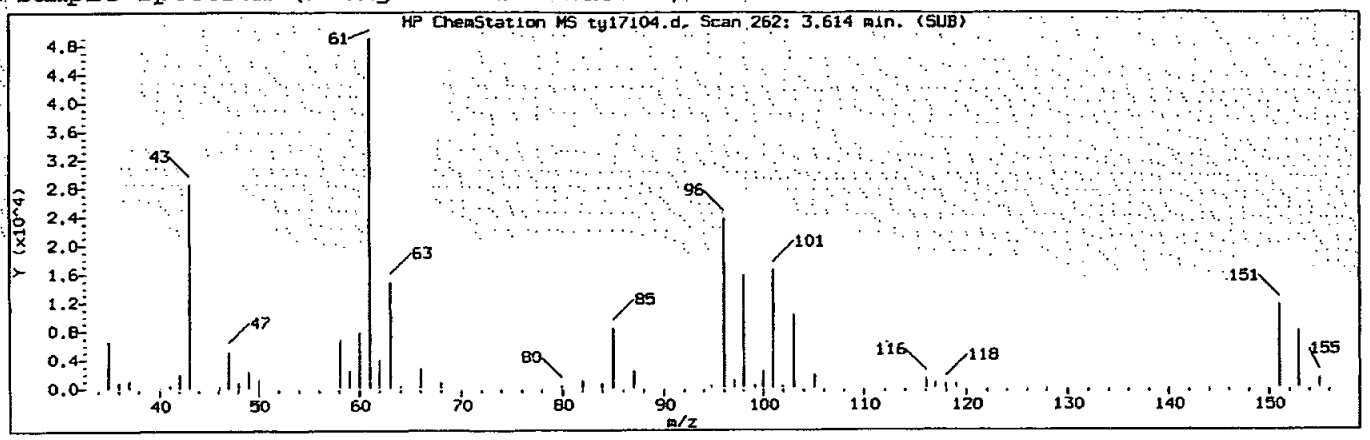
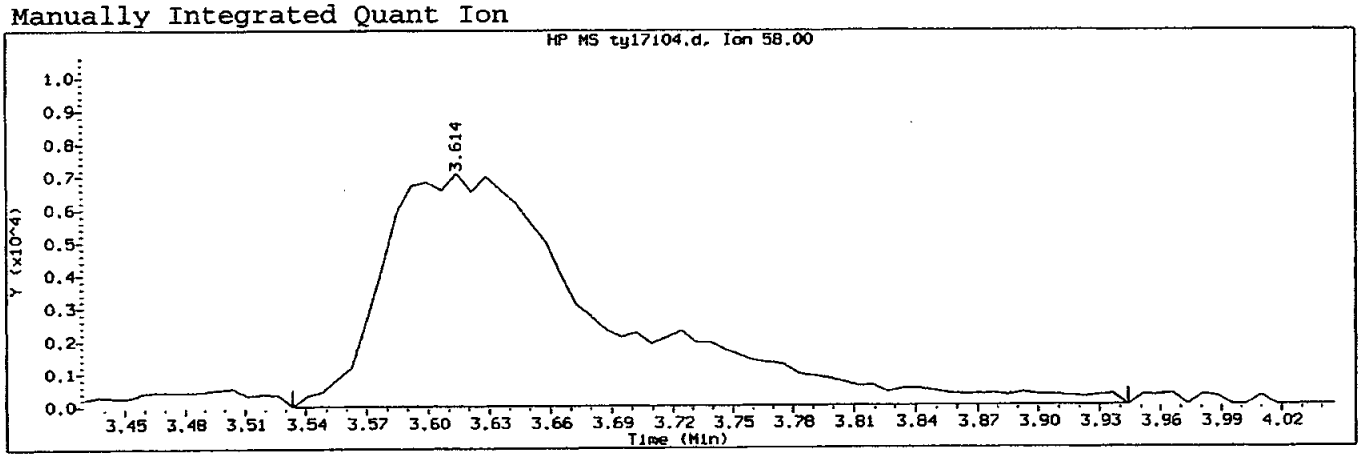
on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895

ASX73 0328

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

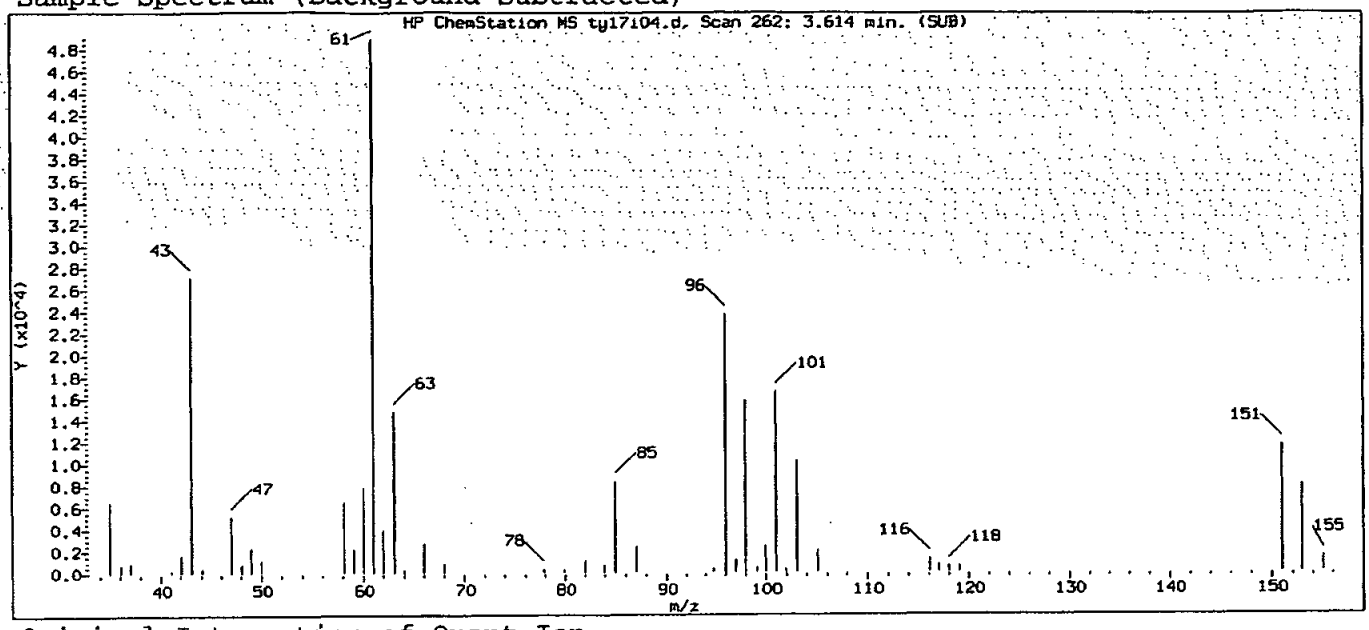
Compound Number	: 21		
Compound Name	: Acetone		
Scan Number	: 262		
Retention Time (minutes)	: 3.614		
Quant Ion	: 58.00		
Area (flag)	: 54573M		
On-Column Amount (ng)	: 43.2326		
Integration start scan	: 250	Integration stop scan:	306
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

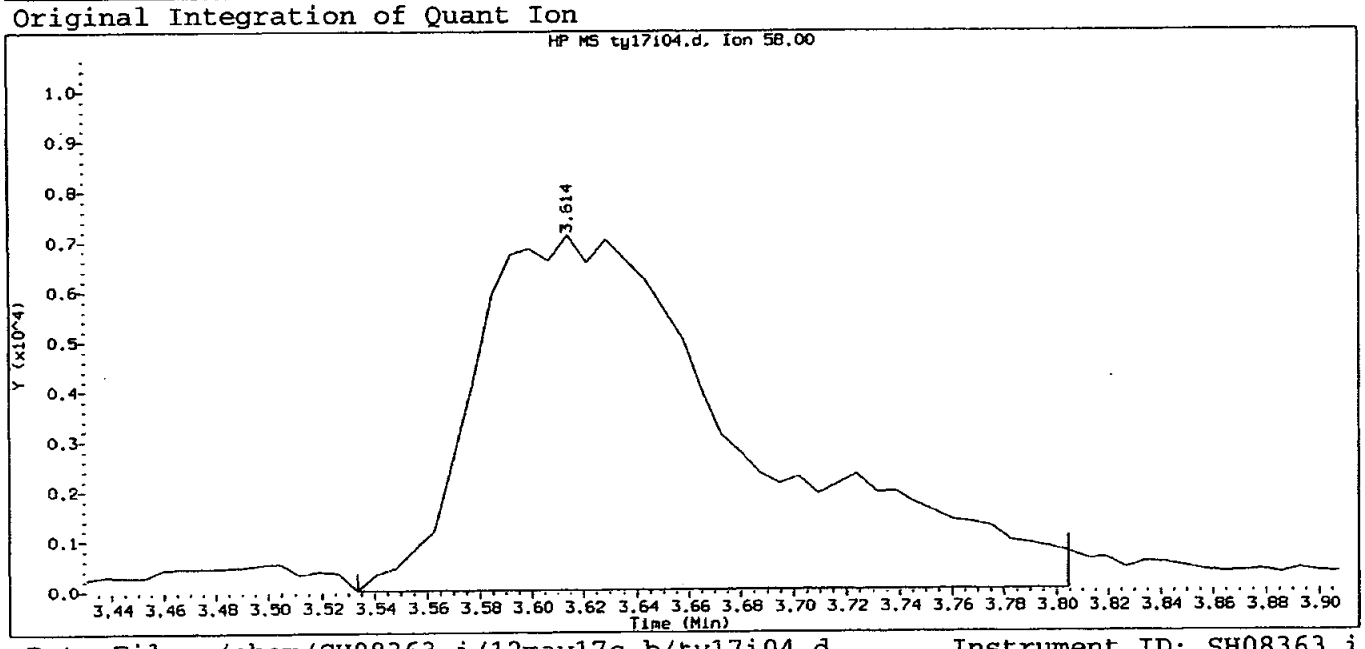
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:31. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

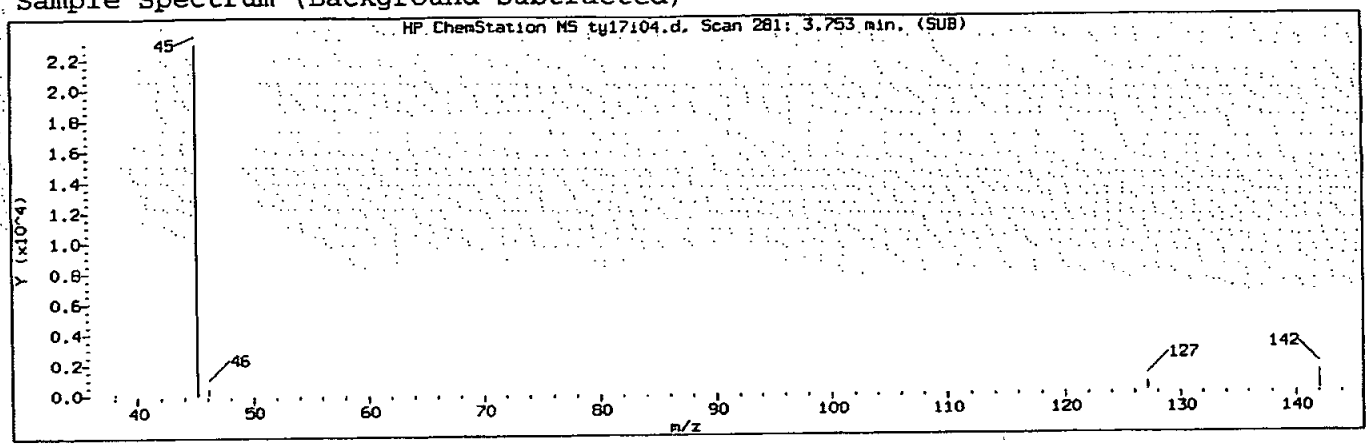
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 21		
Compound Name	: Acetone		
Scan Number	: 262		
Retention Time (minutes)	: 3.614		
Quant Ion	: 58.00		
Area	: 51334		
On-column Amount (ng)	: 41.1064		
Integration start scan	: 250	Integration stop scan:	287
Y at integration start	: 0	Y at integration end:	0

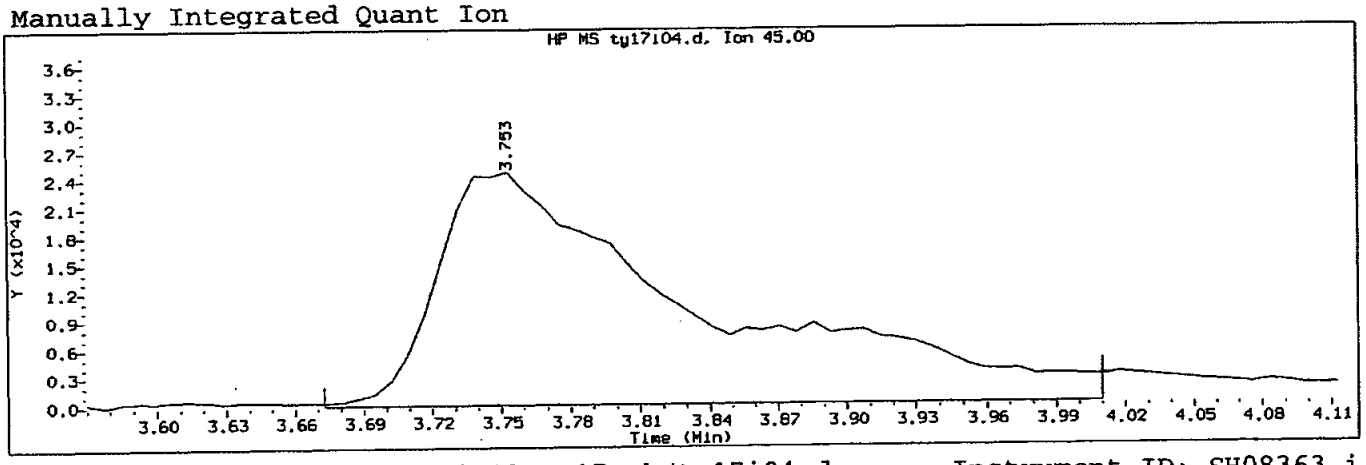
Digitally signed by Linda C. Pape on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895

ASX73 0322

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d
Injection date and time: 17-MAY-2012 14:47

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020

Lab Sample ID: VSTD020

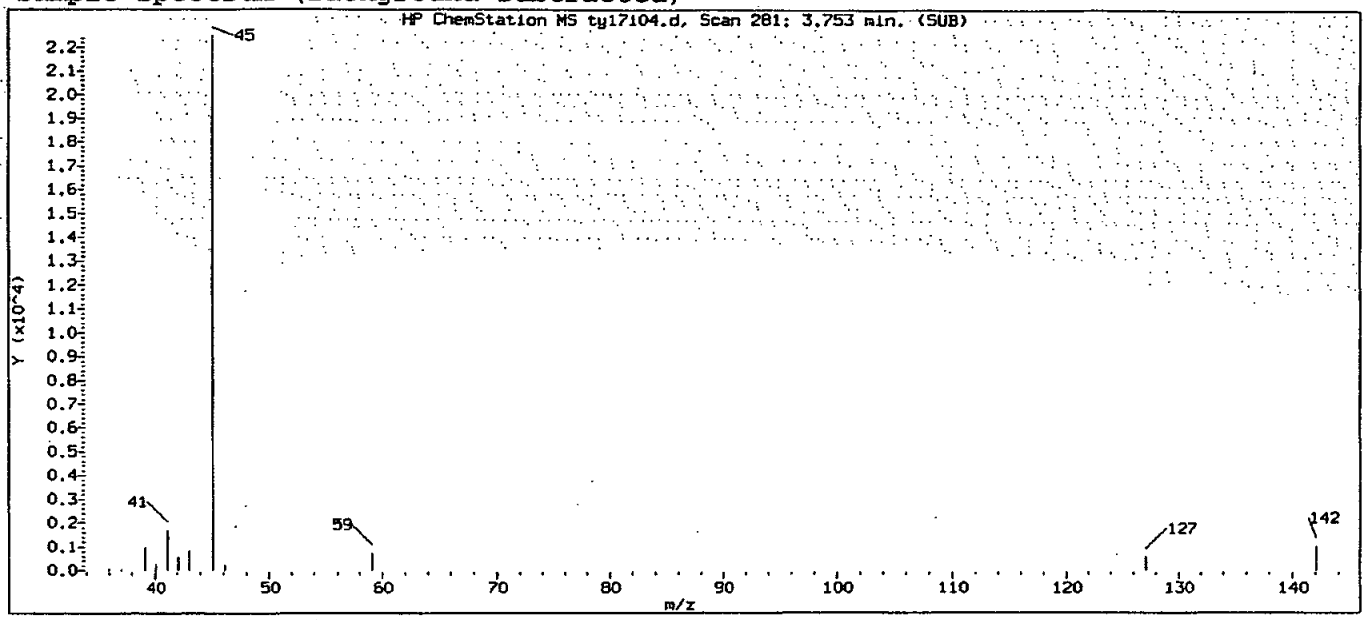
Compound Number : 23
Compound Name : 2-Propanol
Scan Number : 281
Retention Time (minutes): 3.753
Quant Ion : 45.00
Area (flag) : 195668M
On-Column Amount (ng) : 230.9980
Integration start scan : 269 Integration stop scan: 315
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

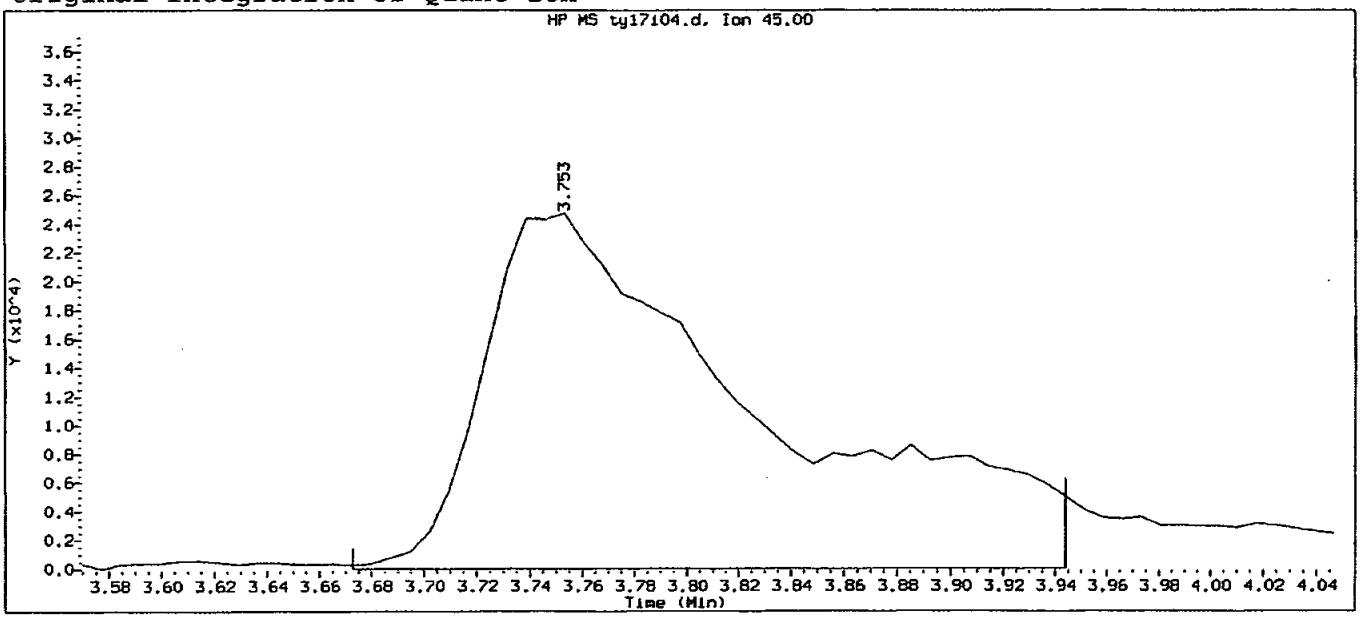
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:31. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 23		
Compound Name	: 2-Propanol		
Scan Number	: 281		
Retention Time (minutes)	: 3.753		
Quant Ion	: 45.00		
Area	: 181598		
On-column Amount (ng)	: 229.7718		
Integration start scan	: 269	Integration stop scan:	306
Y at integration start	: 0	Y at integration end:	0

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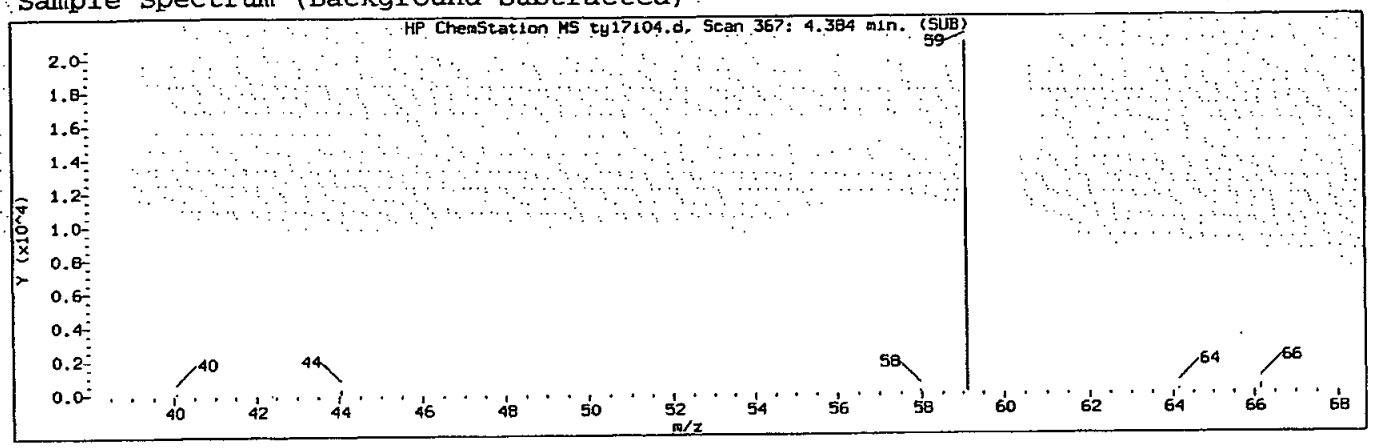
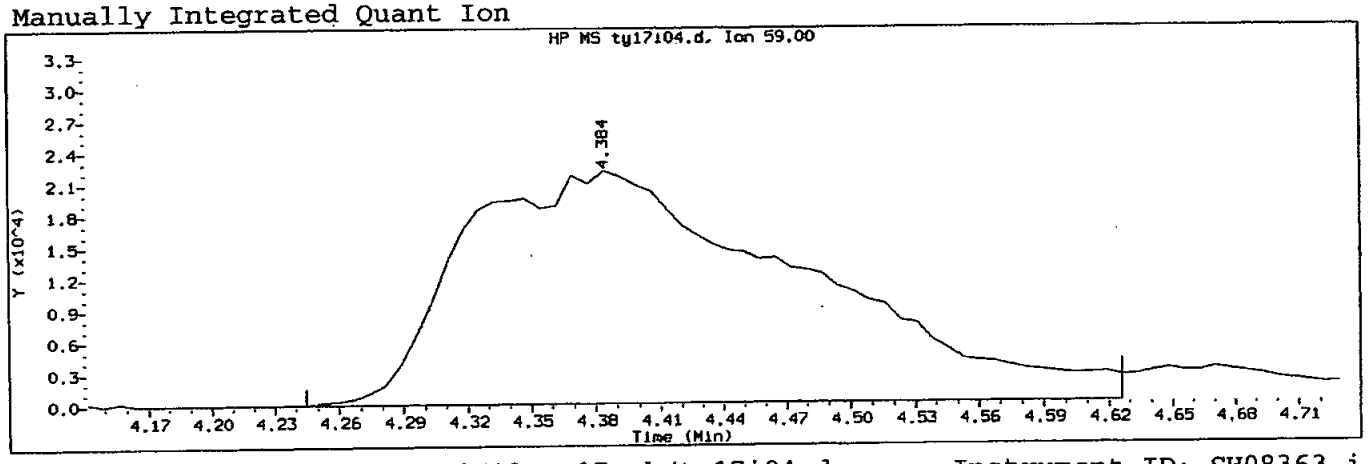
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d
Injection date and time: 17-MAY-2012 14:47

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020

Lab Sample ID: VSTD020

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 367		
Retention Time (minutes)	: 4.384		
Quant Ion	: 59.00		
Area (flag)	: 245735M		
On-Column Amount (ng)	: 260.1828		
Integration start scan	: 347	Integration stop scan:	399
Y at integration start	: 0	Y at integration end:	0

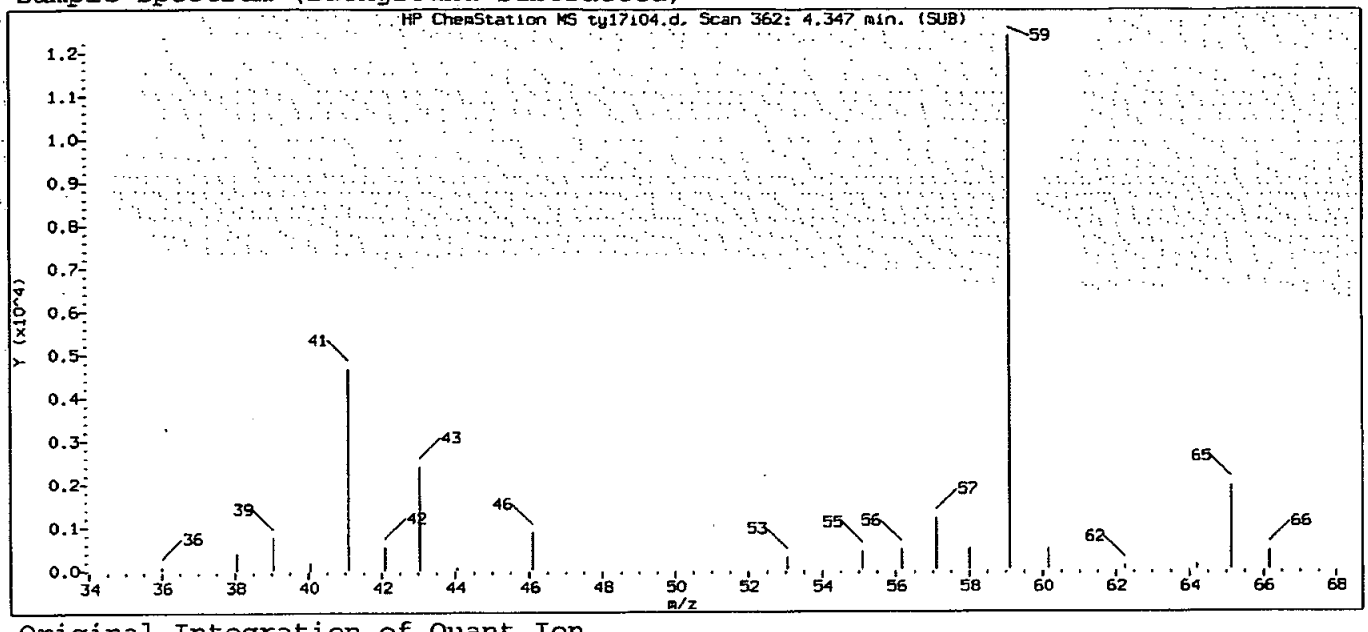
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:31. Target 3.5 esignature user ID: lcp00895

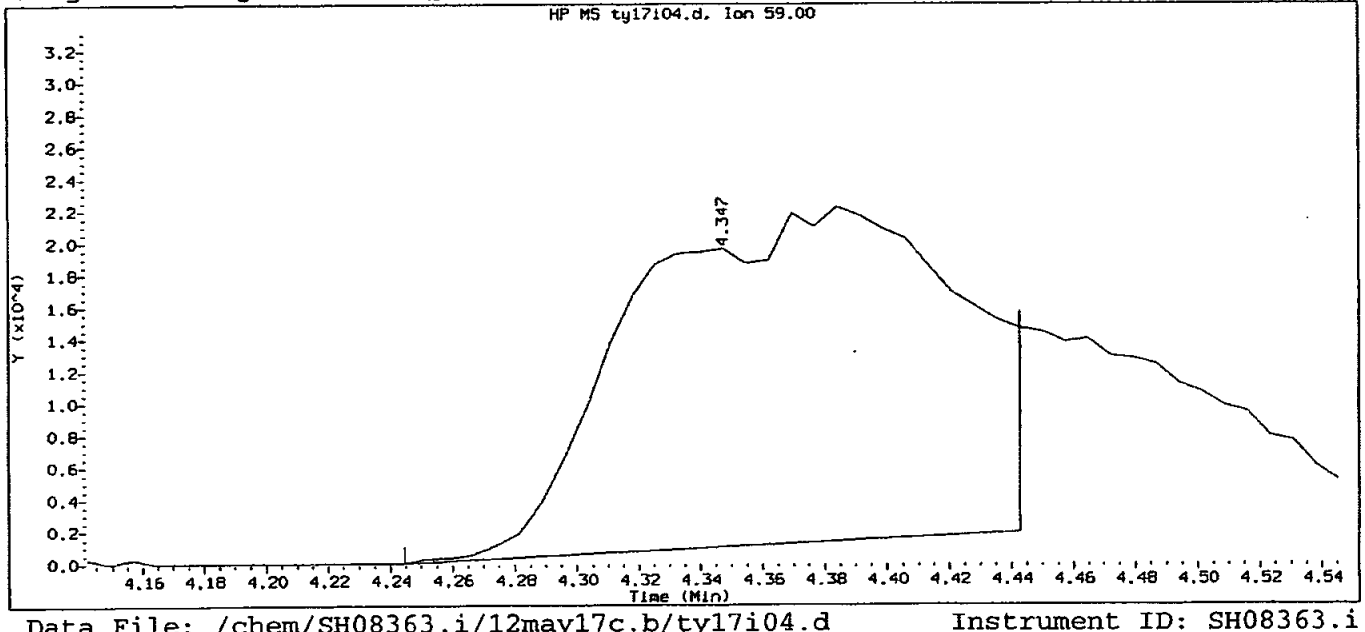
GC/MS audit/management approval: 5/6/12

(3)

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

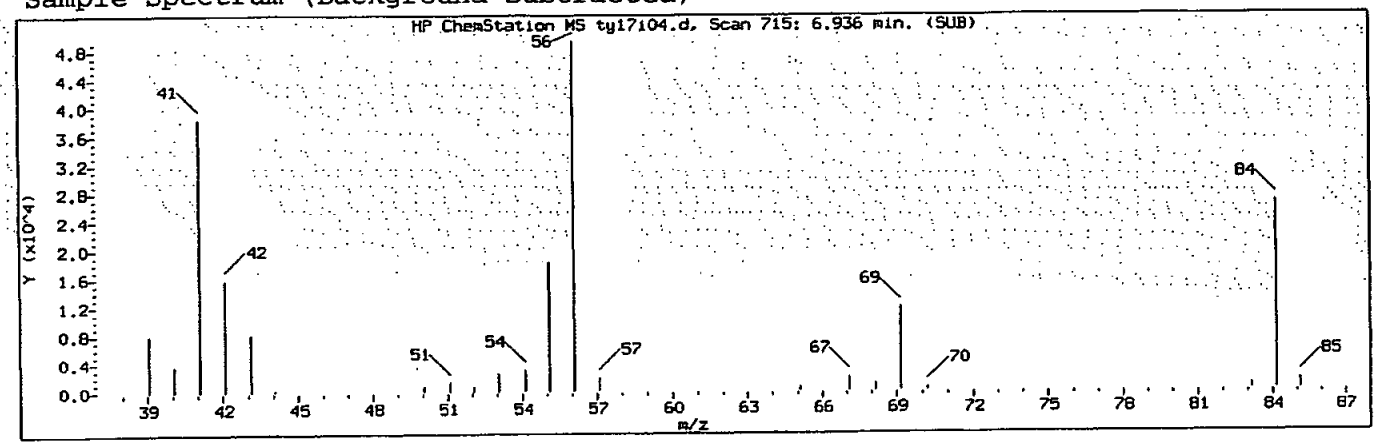
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

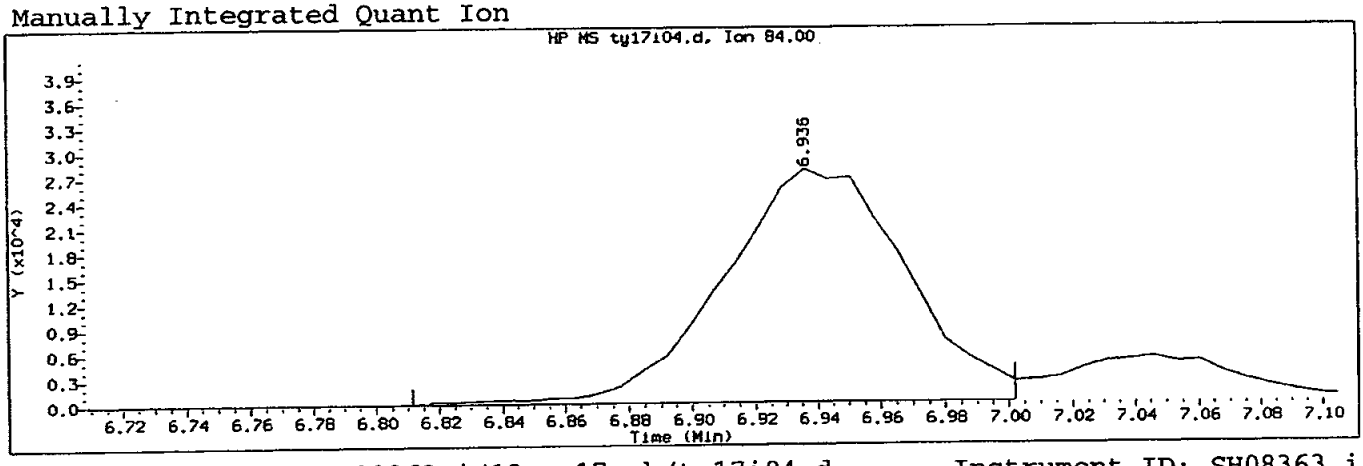
Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 362
Retention Time (minutes): 4.347
Quant Ion : 59.00
Area : 151497
On-column Amount (ng) : 180.5199
Integration start scan : 347 Integration stop scan: 374
Y at integration start : 0 Y at integration end: 1882

Digitally signed by Linda C. Pape on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d
Injection date and time: 17-MAY-2012 14:47

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020

Lab Sample ID: VSTD020

Compound Number	: 57		
Compound Name	: Cyclohexane(mz84)		
Scan Number	: 715		
Retention Time (minutes)	: 6.936		
Quant Ion	: 84.00		
Area (flag)	: 112332M		
On-Column Amount (ng)	: 18.6355		
Integration start scan	: 697	Integration stop scan:	723
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

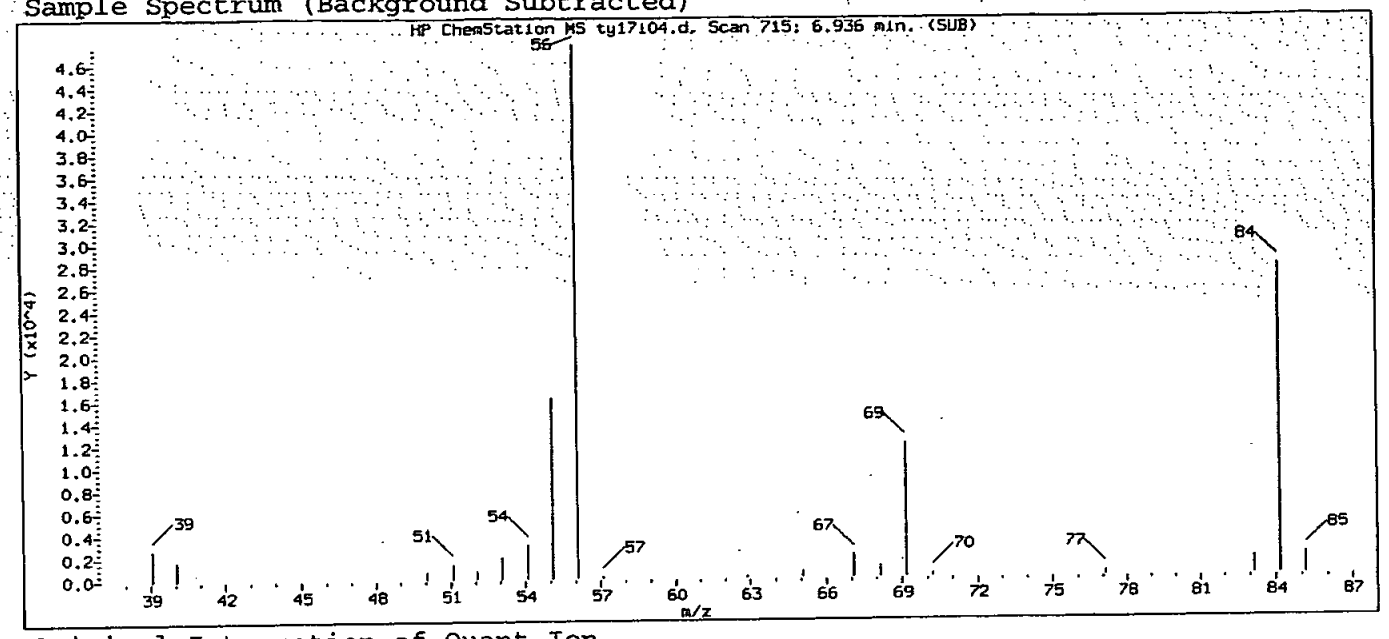
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:31. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____ 5/21/12

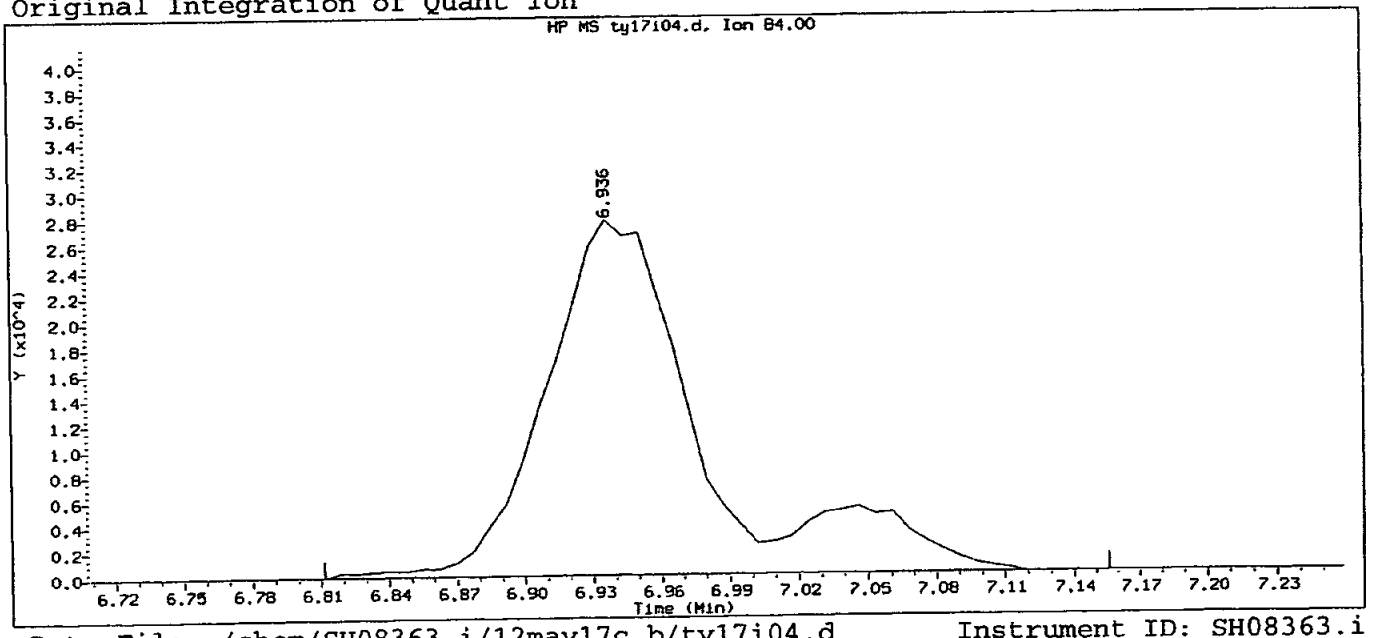
7

ASX73 0327

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d
Injection date and time: 17-MAY-2012 14:47

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

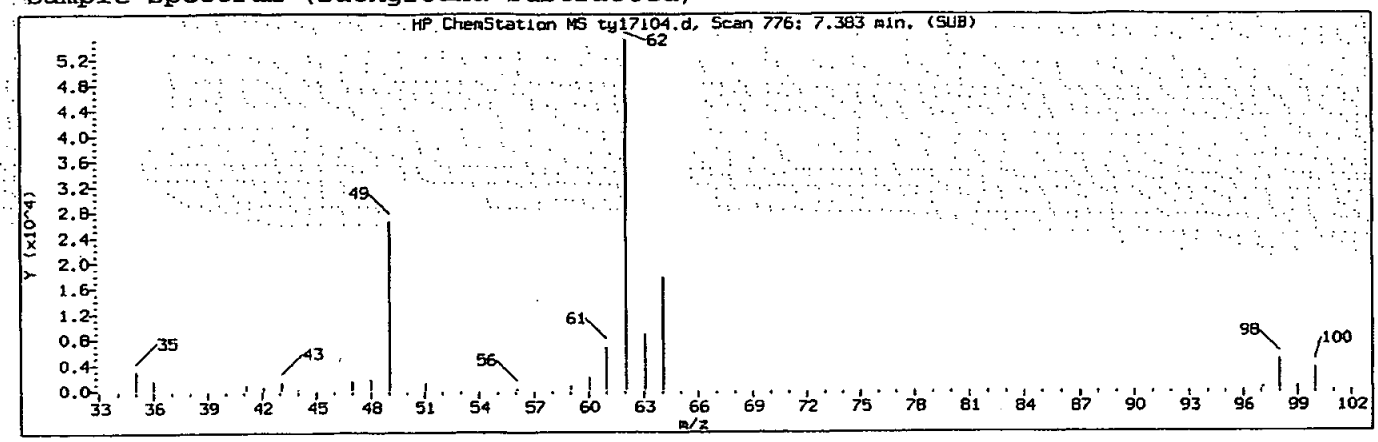
Sample Name: VSTD020

Lab Sample ID: VSTD020

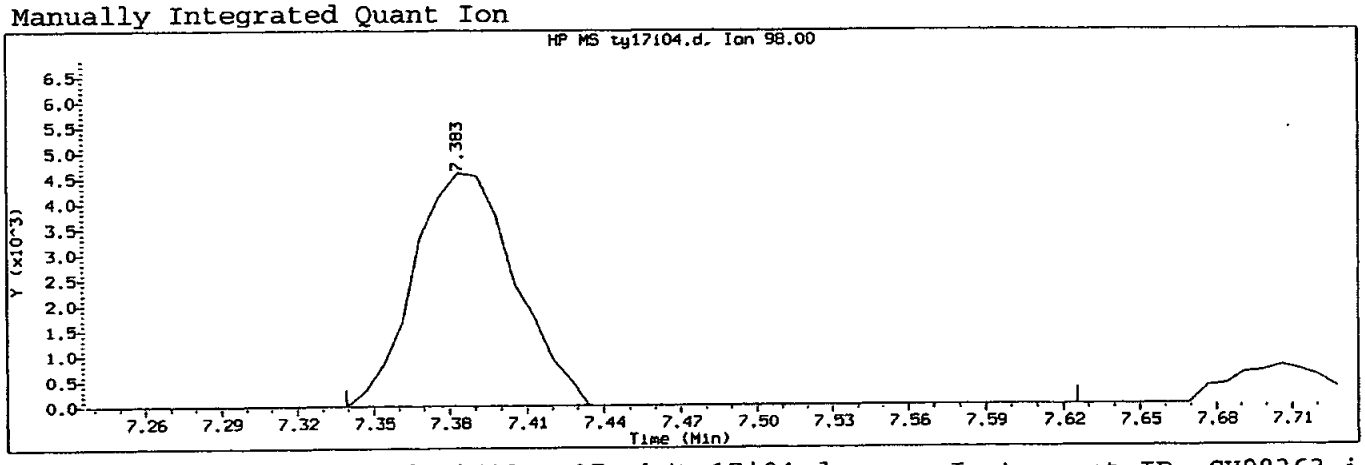
Compound Number	: 57		
Compound Name	: Cyclohexane(mz84)		
Scan Number	: 715		
Retention Time (minutes)	: 6.936		
Quant Ion	: 84.00		
Area	: 131728		
On-column Amount (ng)	: 20.1758		
Integration start scan	: 697	Integration stop scan:	744
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

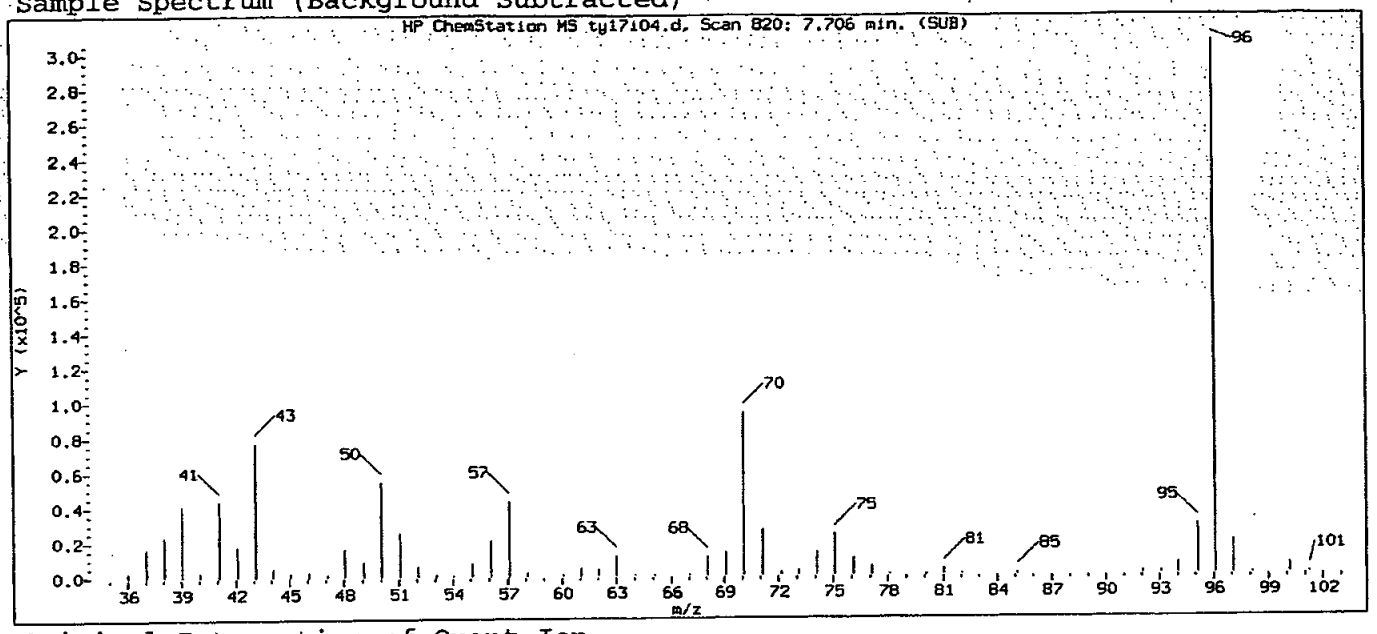
Compound Number	: 67		
Compound Name	: 1,2-Dichloroethane(mz98)		
Scan Number	: 776		
Retention Time (minutes)	: 7.383		
Quant Ion	: 98.00		
Area (flag)	: 12675A		
On-Column Amount (ng)	: 22.1333		
Integration start scan	: 769	Integration stop scan:	808
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

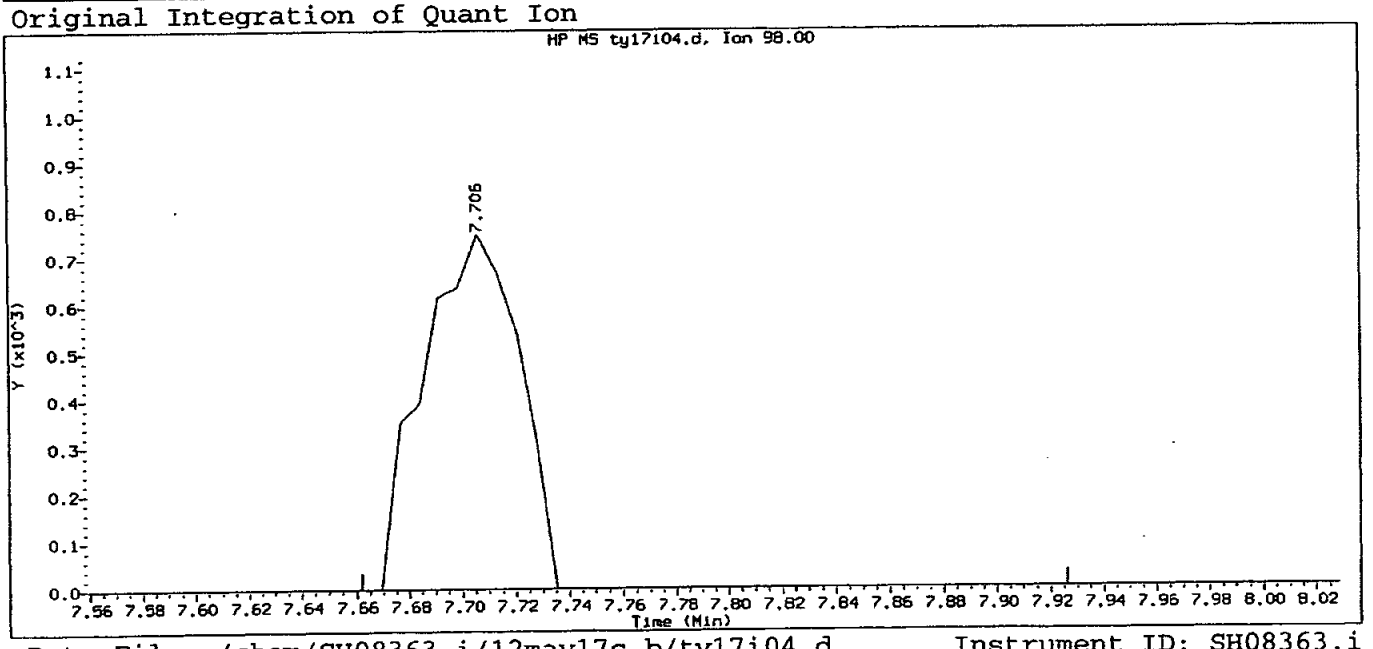
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:31. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

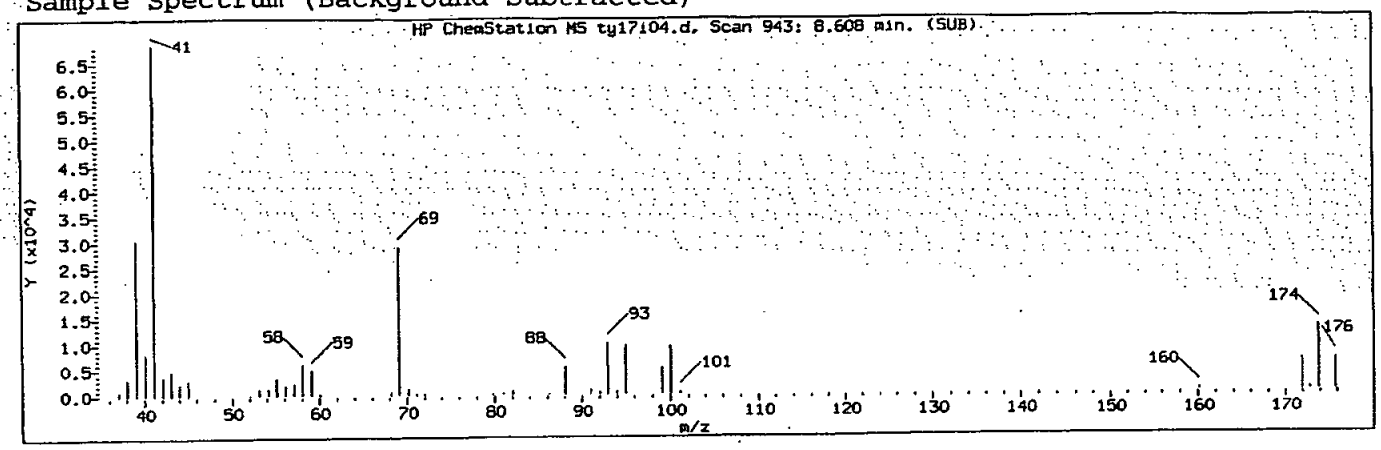
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

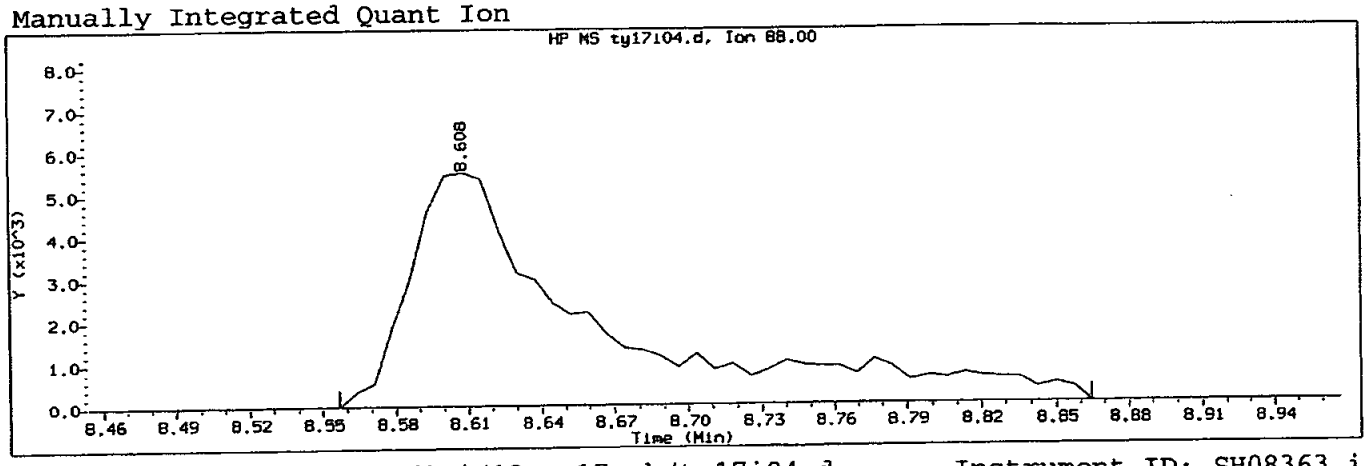
Compound Number : 67
Compound Name : 1,2-Dichloroethane(mz98)
Scan Number : 820
Retention Time (minutes): 7.706
Quant Ion : 98.00
Area : 1873
On-column Amount (ng) : 61.8089
Integration start scan : 813 Integration stop scan: 849
Y at integration start : 0 Y at integration end: 0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d
Injection date and time: 17-MAY-2012 14:47

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020

Lab Sample ID: VSTD020

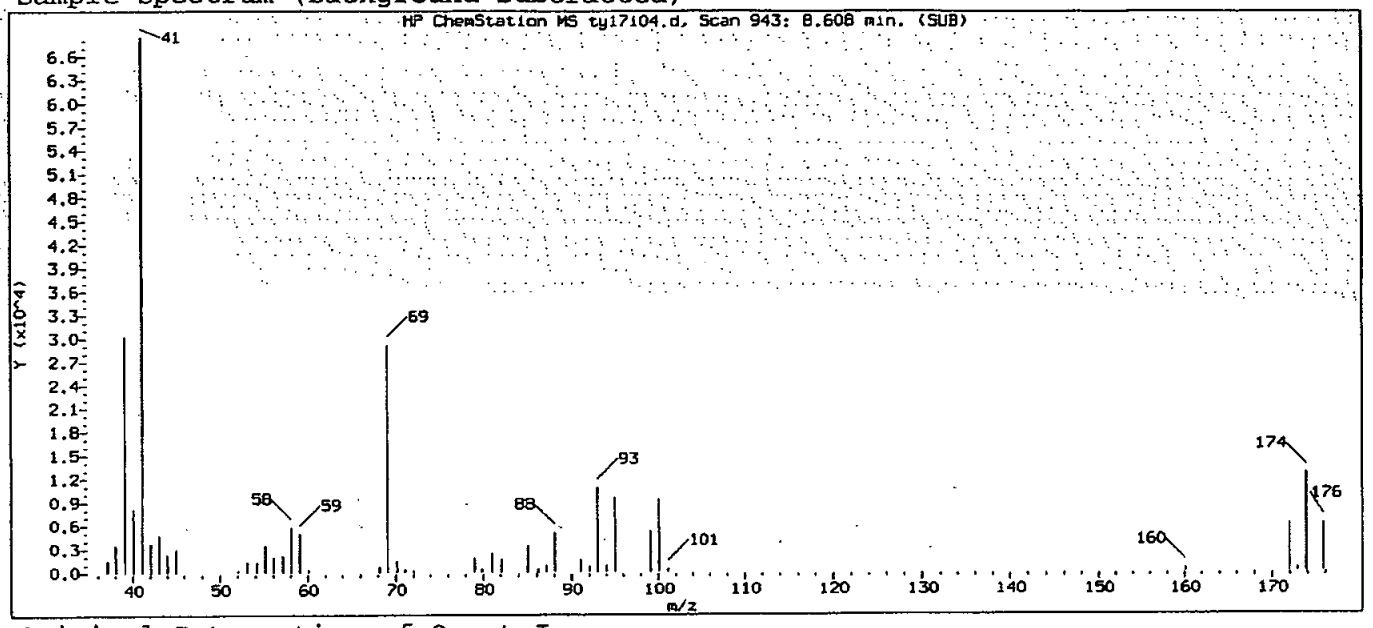
Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 943		
Retention Time (minutes)	: 8.608		
Quant Ion	: 88.00		
Area (flag)	: 29266M		
On-Column Amount (ng)	: 464.5507		
Integration start scan	: 935	Integration stop scan:	977
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

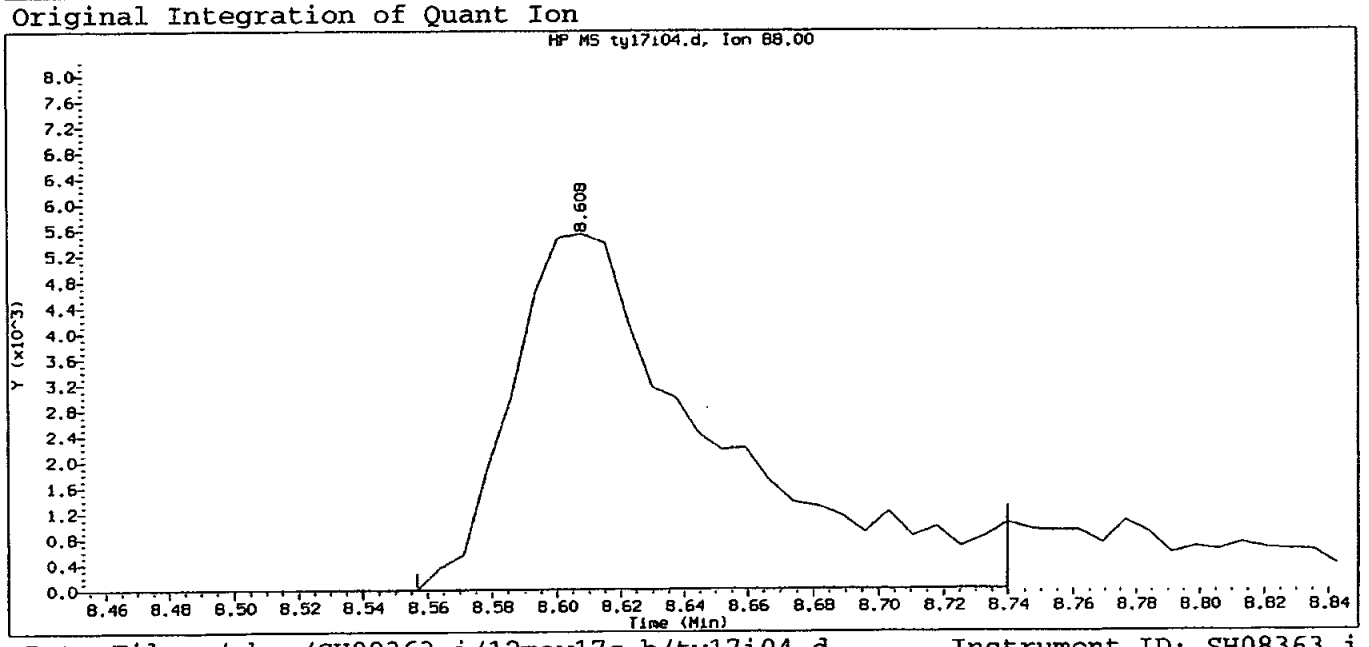
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:31. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

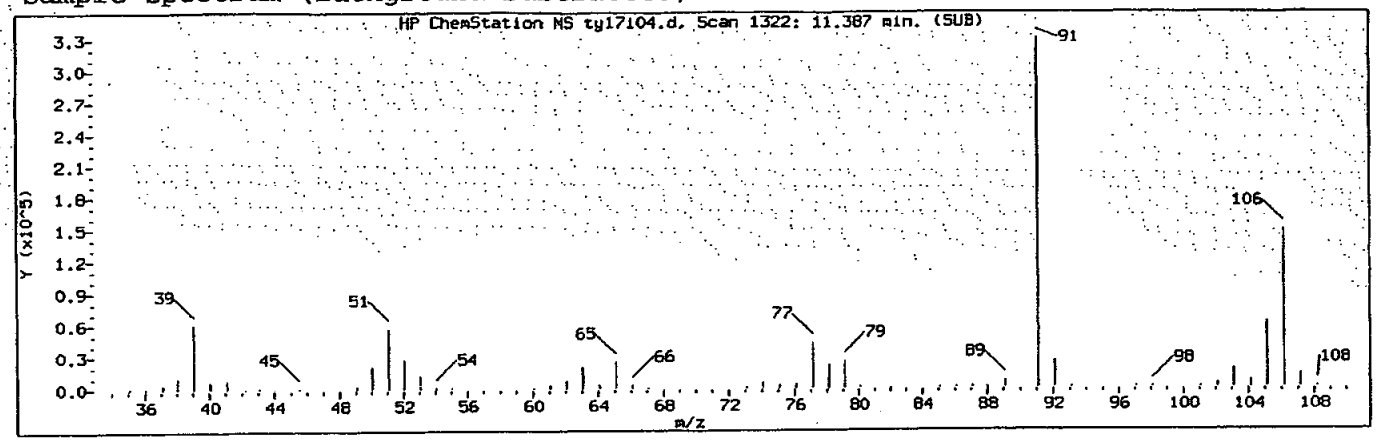
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

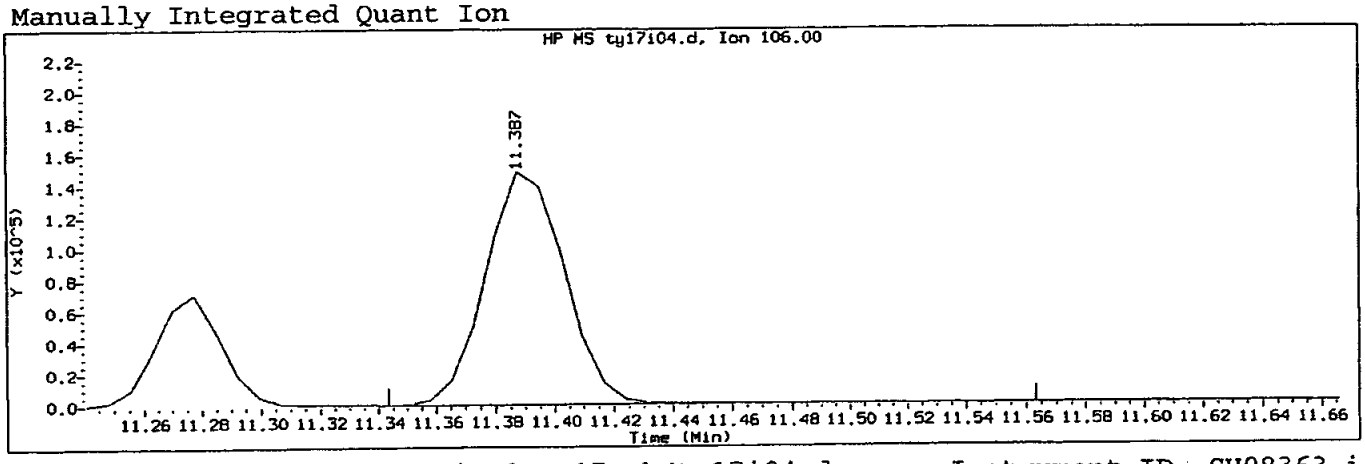
Compound Number : 82
Compound Name : 1,4-Dioxane
Scan Number : 943
Retention Time (minutes): 8.608
Quant Ion : 88.00
Area : 24277
On-column Amount (ng) : 475.4874
Integration start scan : 935 Integration stop scan: 960
Y at integration start : 0 Y at integration end: 0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

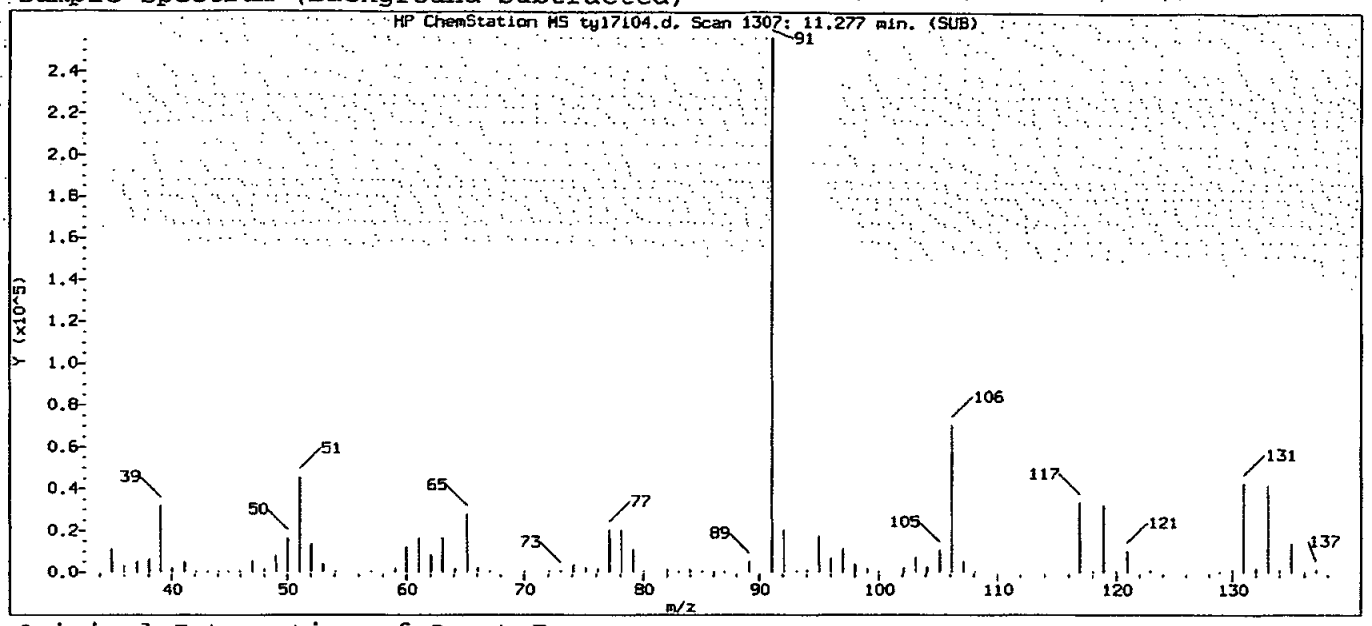
Compound Number : 115
Compound Name : m+p-Xylene
Scan Number : 1322
Retention Time (minutes): 11.387
Quant Ion : 106.00
Area (flag) : 277581A
On-Column Amount (ng) : 64.4135
Integration start scan : 1315 Integration stop scan: 1345
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

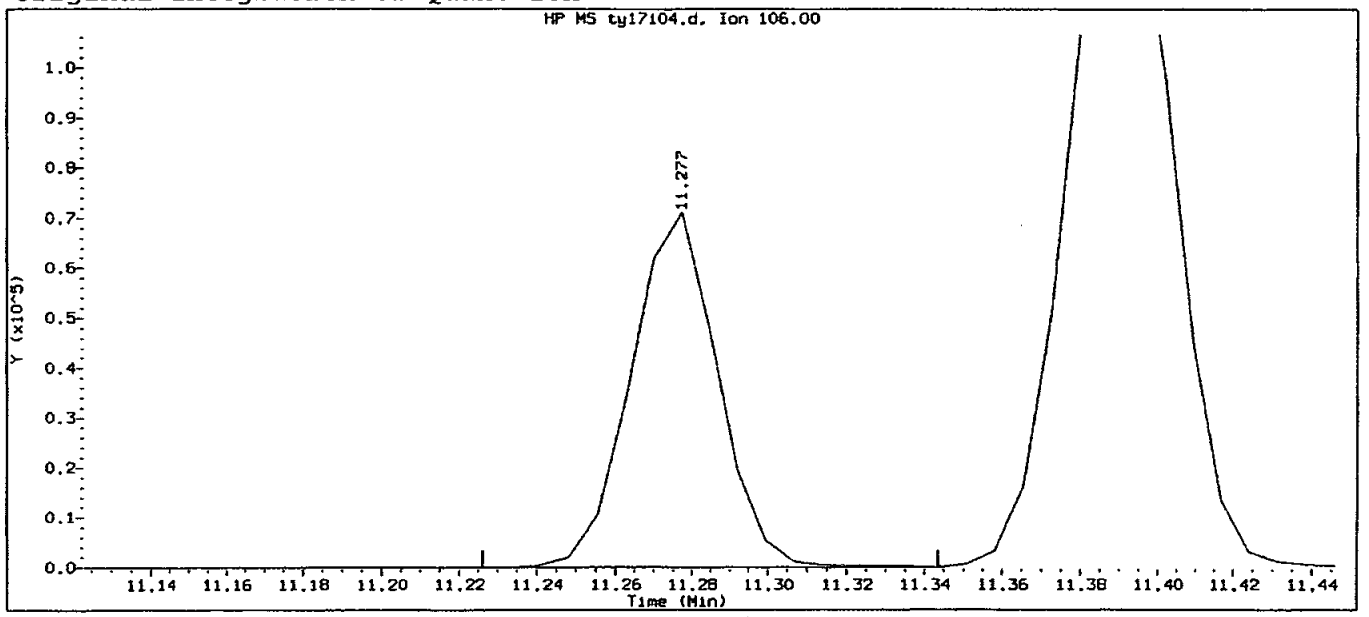
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:31. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 115
Compound Name : m+p-Xylene
Scan Number : 1307
Retention Time (minutes): 11.277
Quant Ion : 106.00
Area : 111922
On-column Amount (ng) : 30.9253
Integration start scan : 1299 Integration stop scan: 1315
Y at integration start : 0 Y at integration end: 0

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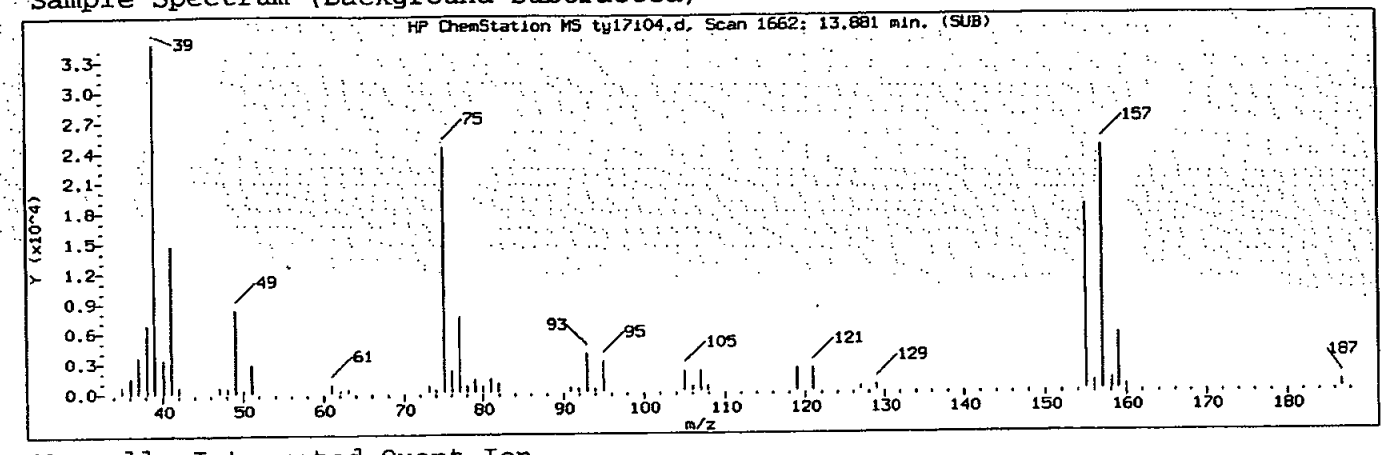
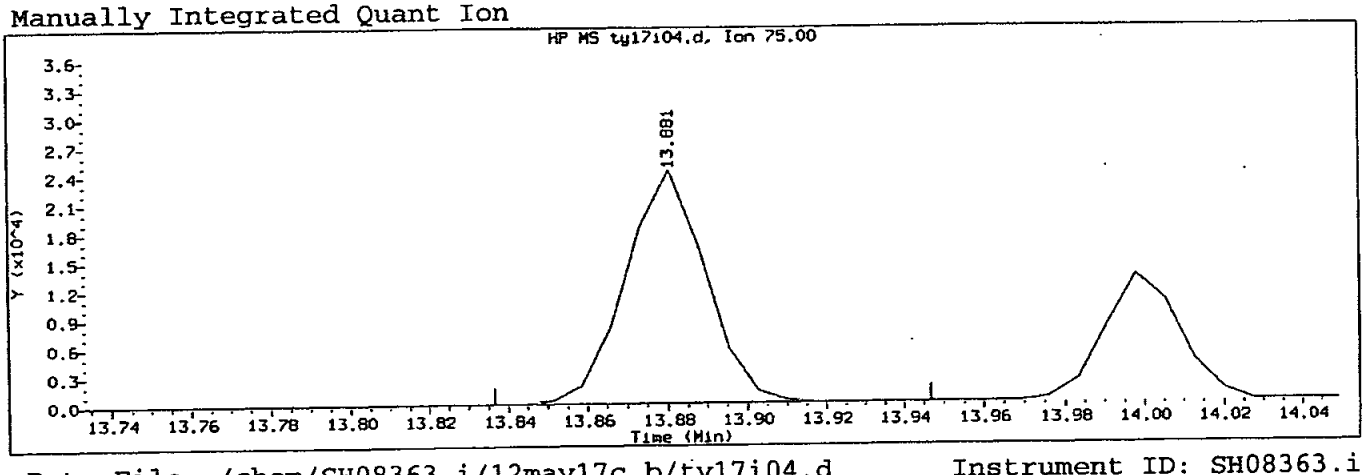
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i04.d
Injection date and time: 17-MAY-2012 14:47

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:24 lcp00895

Sample Name: VSTD020

Lab Sample ID: VSTD020

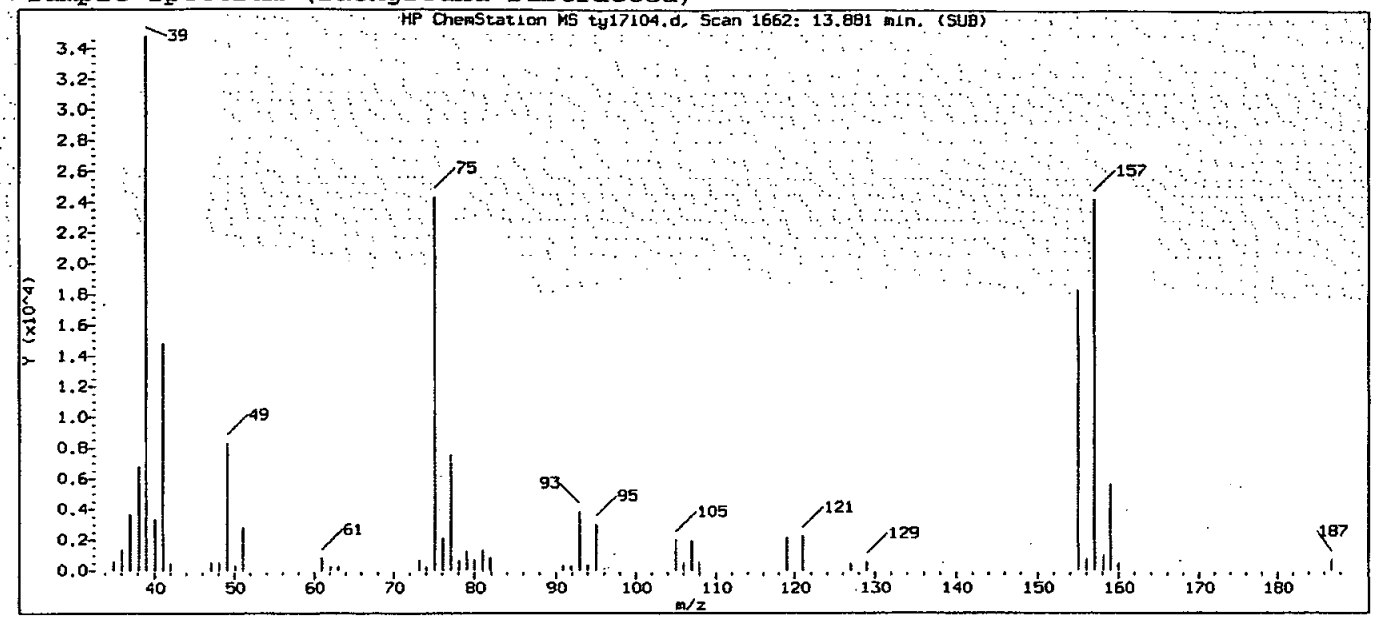
Compound Number	:	151
Compound Name	:	1,2-Dibromo-3-Chloropropane
Scan Number	:	1662
Retention Time (minutes)	:	13.881
Quant Ion	:	75.00
Area (flag)	:	33858M
On-Column Amount (ng)	:	17.2162
Integration start scan	:	1655
Integration stop scan	:	1670
Y at integration start	:	0
Y at integration end	:	0

Reason for manual integration: improper integration

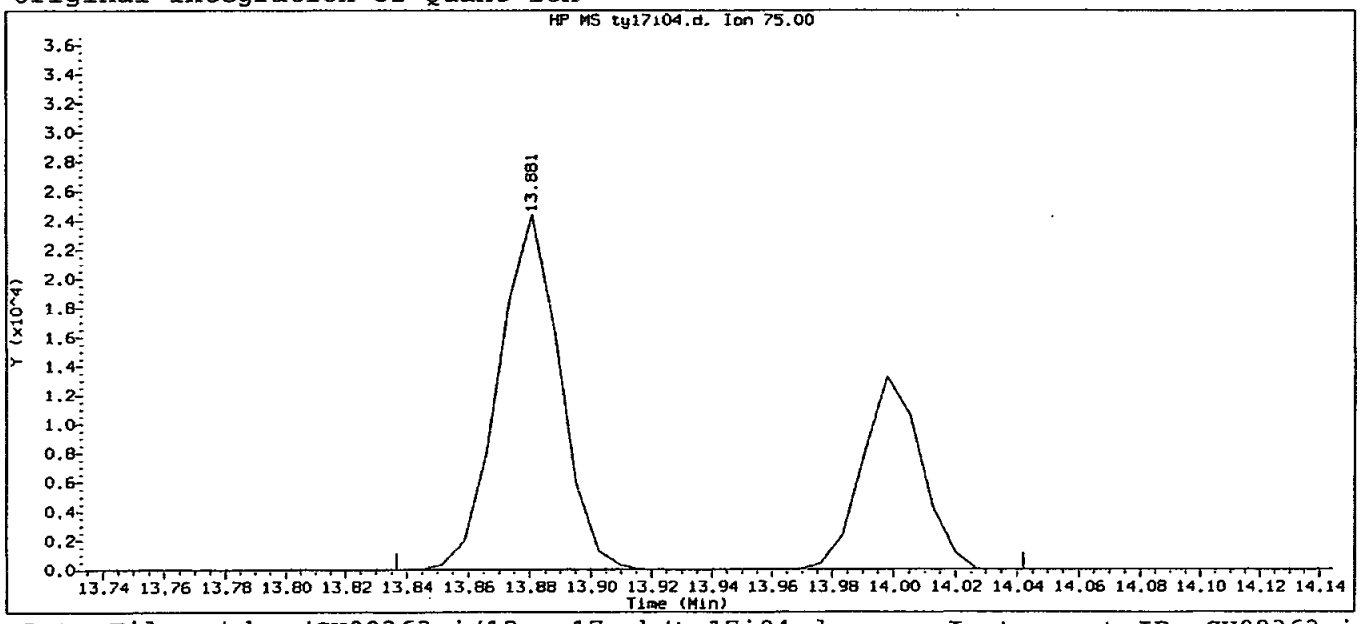
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:31. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



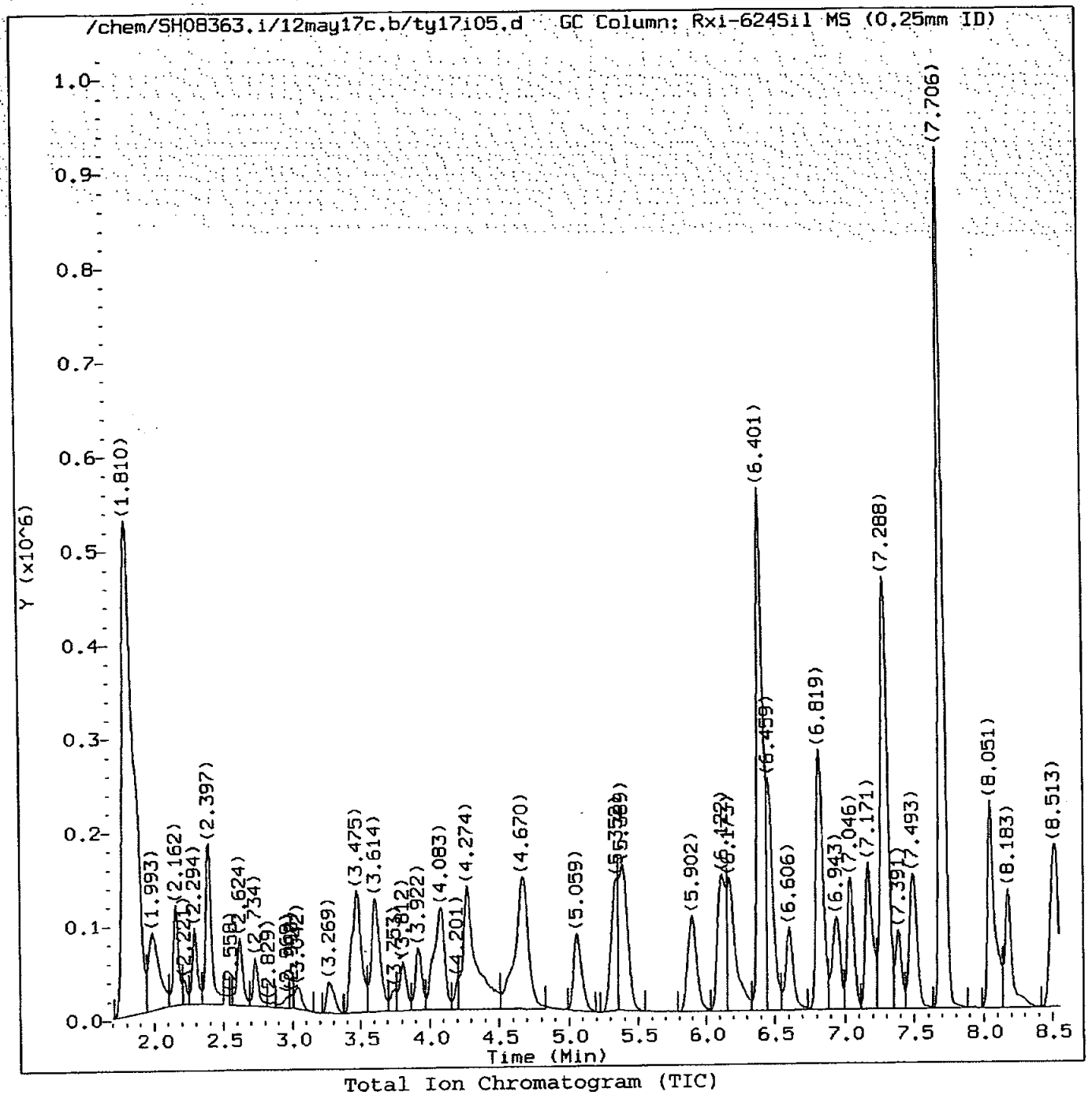
Data File: /chem/SH08363.i/12may17c.b/ty17i04.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 14:47 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:00 lcp00895

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 151
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1662
Retention Time (minutes): 13.881
Quant Ion : 75.00
Area : 51407
On-column Amount (ng) : 24.3302
Integration start scan : 1655 Integration stop scan: 1683
Y at integration start : 0 Y at integration end: 0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:31.
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i05.d
Injection date and time: 17-MAY-2012 15:11

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

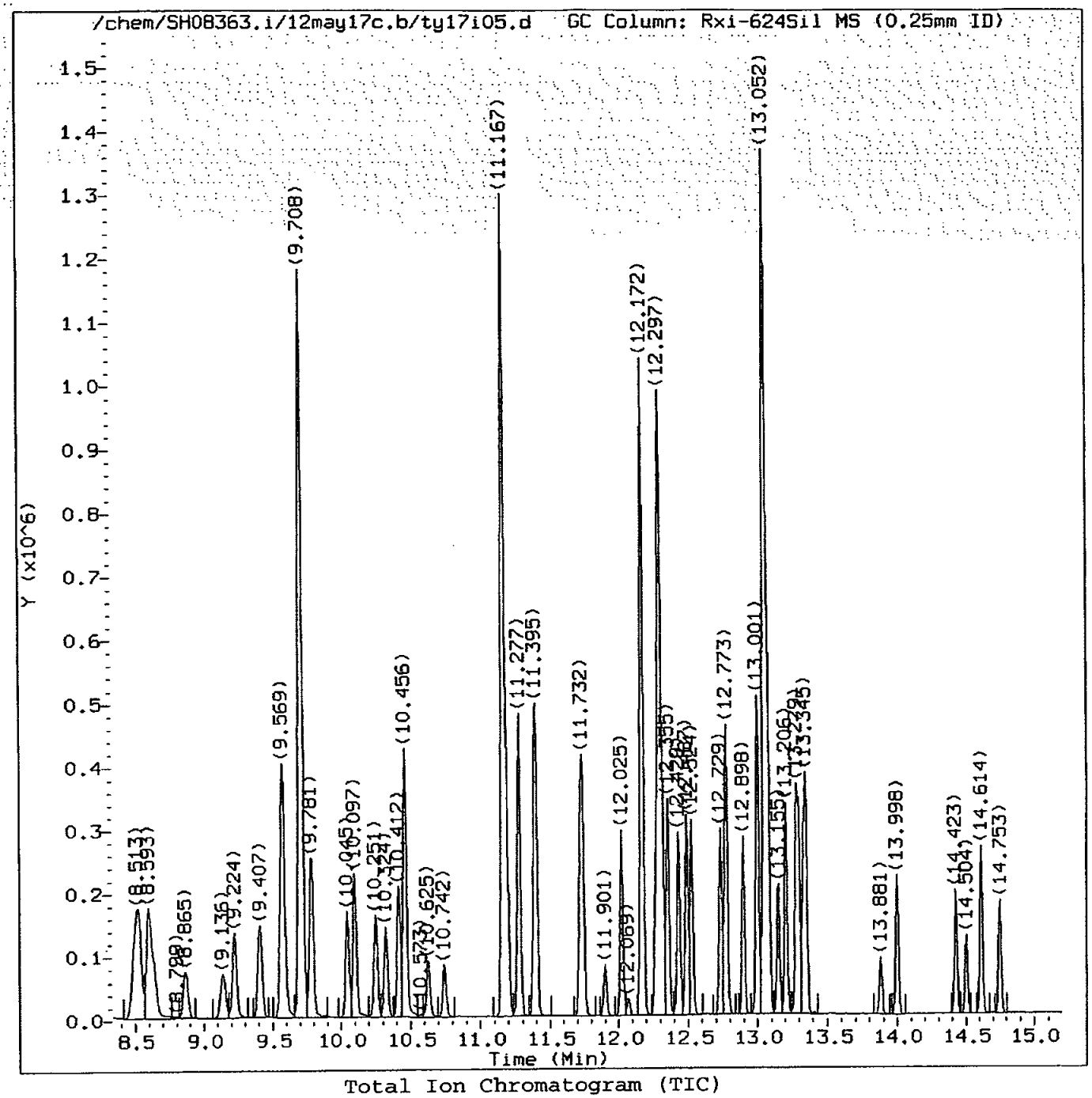
Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i05.d
Injection date and time: 17-MAY-2012 15:11

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895

ASX73 0339

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i05.d
Injection date and time: 17-MAY-2012 15:11

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sublist used: 8260WI-F

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.030	85	85192	10.350
2) Chloromethane	(1)	2.162	50	151820	10.622
4) Vinyl Chloride	(1)	2.294	62	95323	10.426
7) Bromomethane	(1)	2.624	94	56408	10.522
8) Chloroethane	(1)	2.734	64	52130	10.707
13) Trichlorofluoromethane	(1)	3.035	101	52827	9.877
15) Ethyl Ether	(1)	3.269	59	35298	5.969
17) Acrolein	(4)	3.475	56	332738	105.660
18) 1,1-Dichloroethene	(1)	3.607	96	36738	9.537
19) Freon 113	(1)	3.629	101	32537	8.468
21) Acetone	(1)	3.629	58	28139M	22.223
23) 2-Propanol	(4)	3.746	45	104118M	109.667
22) Methyl Iodide	(1)	3.812	142	77888	10.168
24) Carbon Disulfide	(1)	3.922	76	145602	9.205
26) Methyl Acetate	(1)	4.017	43	175092	10.805
25) Allyl Chloride	(1)	4.091	41	172132	9.983
28)*t-Butyl Alcohol-d10	(4)	4.267	65	266317	250.000
27) Methylene Chloride	(1)	4.274	84	55531	9.556
29) t-Butyl Alcohol	(4)	4.399	59	119180M	109.493
30) Acrylonitrile	(1)	4.582	53	65408	11.075
31) Methyl Tertiary Butyl Ether	(1)	4.670	73	154798	10.406
32) trans-1,2-Dichloroethene	(1)	4.677	96	44794	9.875
34) n-Hexane	(1)	5.059	57	67631	8.149
36) 1,1-Dichloroethane	(1)	5.315	63	106190	9.830
41) 1,2-Dichloroethene (total)	(1)		96	95093	19.788
37) di-Isopropyl Ether	(1)	5.367	45	351468	10.196
40) 2-Chloro-1,3-Butadiene	(1)	5.411	53	94644	9.449
42) Ethyl t-Butyl Ether	(1)	5.902	59	205593	10.257
45) 2-Butanone	(1)	6.093	43	242731	21.772
44) cis-1,2-Dichloroethene	(1)	6.129	96	50299	9.913
43) 2,2-Dichloropropane	(1)	6.166	77	54752	10.039
46) Propionitrile	(4)	6.188	54	222084	98.115
47) Methacrylonitrile	(1)	6.401	67	211732	51.378
49) Bromochloromethane	(1)	6.459	128	26631	9.949
50) Tetrahydrofuran	(4)	6.467	71	32369	21.154
52) Chloroform	(1)	6.606	83	88465	9.990
54)$Dibromofluoromethane	(1)	6.819	113	245071	50.618
53)$Dibromofluoromethane(mz111)	(1)	6.826	111	251120	51.242

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895

ASX73 9339

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	6.841	97	48280	9.702
58) Cyclohexane	(1)	6.943	56	92553	8.631
57) Cyclohexane(mz84)	(1)	6.951	84	50119M	8.572
56) Cyclohexane(mz69)	(1)	6.951	69	21090	8.353
59) 1,1-Dichloropropene	(1)	7.039	75	66760	10.117
60) Carbon Tetrachloride	(1)	7.046	117	36802	9.580
61) Isobutyl Alcohol	(4)	7.171	41	195537	247.141
64)$1,2-Dichloroethane-d4(mz65)	(1)	7.281	65	308523	51.124
62)$1,2-Dichloroethane-d4	(1)	7.281	102	60678	50.734
63)$1,2-Dichloroethane-d4(mz104)	(1)	7.288	104	38794	50.649
65) Benzene	(1)	7.303	78	196243	10.021
66) 1,2-Dichloroethane	(1)	7.391	62	75432	10.041
67) 1,2-Dichloroethane(mz98)	(1)	7.391	98	6078A	10.758
68) t-Amyl Methyl Ether	(1)	7.493	73	154087	10.271
69) n-Heptane	(1)	7.706	43	110188	8.679
70)*Fluorobenzene	(1)	7.706	96	866346	50.000
73) n-Butanol	(4)	8.051	56	225686	485.572
74) Trichloroethene	(1)	8.183	95	45853	10.073
76) Methylcyclohexane	(1)	8.491	83	51790	7.584
79) 1,2-Dichloropropane	(1)	8.527	63	66285	10.166
81) Methyl Methacrylate	(1)	8.593	69	58154	9.993
82) 1,4-Dioxane	(4)	8.615	88	18392M	265.660
80) Dibromomethane	(1)	8.637	93	41117	10.254
83) Bromodichloromethane	(1)	8.857	83	59043	9.787
84) 2-Nitropropane	(1)	9.136	41	65425	18.750
85) 2-Chloroethyl Vinyl Ether	(1)	9.224	63	56272	9.676
87) cis-1,3-Dichloropropene	(1)	9.407	75	81457	10.154
88) 4-Methyl-2-Pentanone	(1)	9.569	58	126646	20.661
90)$Toluene-d8	(2)	9.708	98	782821	49.461
91)$Toluene-d8(mz100)	(2)	9.708	100	525522	49.012
93) Toluene	(2)	9.781	92	106823	9.902
96) trans-1,3-Dichloropropene	(2)	10.045	75	72548	9.746
97) Ethyl Methacrylate	(2)	10.097	69	92164	9.754
98) 1,1,2-Trichloroethane	(2)	10.251	97	49013	10.292
99) Tetrachloroethene	(2)	10.324	166	41753	9.878
100) 1,3-Dichloropropane	(2)	10.412	76	95315	10.347
101) 2-Hexanone	(2)	10.456	58	145976	20.629
103) Dibromochloromethane	(2)	10.625	129	43673	9.754

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895

ASX73 0340

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
104) 1,2-Dibromoethane	(2)	10.742	107	55619	10.209
107)*Chlorobenzene-d5	(2)	11.167	117	570674	50.000
108) Chlorobenzene	(2)	11.189	112	111966	9.993
114) Ethylbenzene	(2)	11.277	106	54760	9.678
111) 1,1,1,2-Tetrachloroethane	(2)	11.277	131	34960	9.920
116) Xylene (Total)	(2)		106	199617	30.797
115) m+p-Xylene	(2)	11.387	106	135144A	21.342
117) o-Xylene	(2)	11.725	106	64473	9.455
119) Styrene	(2)	11.739	104	113507	9.506
120) Bromoform	(2)	11.901	173	34749	9.387
121) Isopropylbenzene	(2)	12.025	105	152254	9.596
124)$4-Bromofluorobenzene	(2)	12.172	95	318643	48.684
125)$4-Bromofluorobenzene(mz174)	(2)	12.172	174	238277	49.955
126) 1,1,2,2-Tetrachloroethane	(3)	12.267	83	97870	10.141
127) Bromobenzene	(3)	12.282	156	48485	9.876
129) trans-1,4-Dichloro-2-Butene	(3)	12.297	53	174073	51.736
128) 1,2,3-Trichloropropane	(3)	12.319	110	20251	10.048
130) n-Propylbenzene	(3)	12.355	91	221820	10.338
131) 2-Chlorotoluene	(3)	12.429	126	40718	9.864
132) 1,3,5-Trimethylbenzene	(3)	12.487	105	134397	9.946
133) 4-Chlorotoluene	(3)	12.524	126	42178	9.595
134) tert-Butylbenzene	(3)	12.729	134	23186	8.473
135) Pentachloroethane	(3)	12.766	167	26227	9.439
137) 1,2,4-Trimethylbenzene	(3)	12.773	105	140693	10.026
138) sec-Butylbenzene	(3)	12.898	105	161784	9.889
139) 1,3-Dichlorobenzene	(3)	12.993	146	82501	9.739
140) p-Isopropyltoluene	(3)	13.008	119	127524	9.765
141)*1,4-Dichlorobenzene-d4	(3)	13.052	152	285911	50.000
142) 1,4-Dichlorobenzene	(3)	13.067	146	84648	9.662
143) 1,2,3-Trimethylbenzene	(3)	13.081	105	151735	10.024
144) Benzyl Chloride	(3)	13.147	91	114446	9.208
145) 1,3-Diethylbenzene	(3)	13.206	119	79948	9.738
146) 1,4-Diethylbenzene	(3)	13.279	119	82232	9.599
147) n-Butylbenzene	(3)	13.301	92	86190	9.566
148) 1,2-Dichlorobenzene	(3)	13.331	146	79447	9.724
149) 1,2-Diethylbenzene	(3)	13.345	119	67954	9.854
151) 1,2-Dibromo-3-Chloropropane	(3)	13.881	75	16279M	9.016
153) 1,3,5-Trichlorobenzene	(3)	13.998	180	56400	9.887

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Linda C. Pape
on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895

ASX73 0341

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
154) 1,2,4-Trichlorobenzene	(3)	14.423	180	48499	9.640
155) Hexachlorobutadiene	(3)	14.504	225	20654	9.543
156) Naphthalene	(3)	14.614	128	152427	10.022
157) 1,2,3-Trichlorobenzene	(3)	14.746	180	46996	9.890

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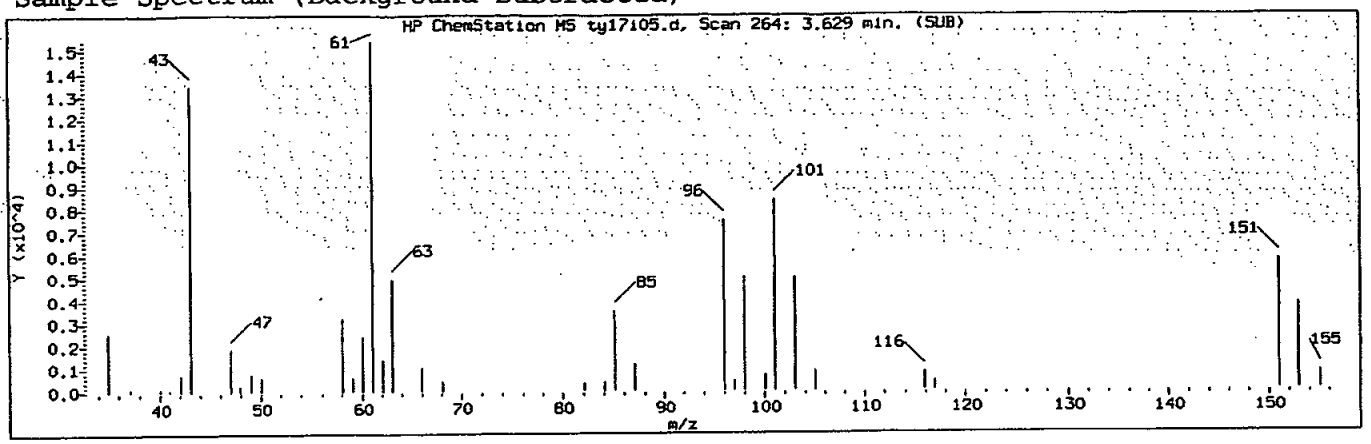
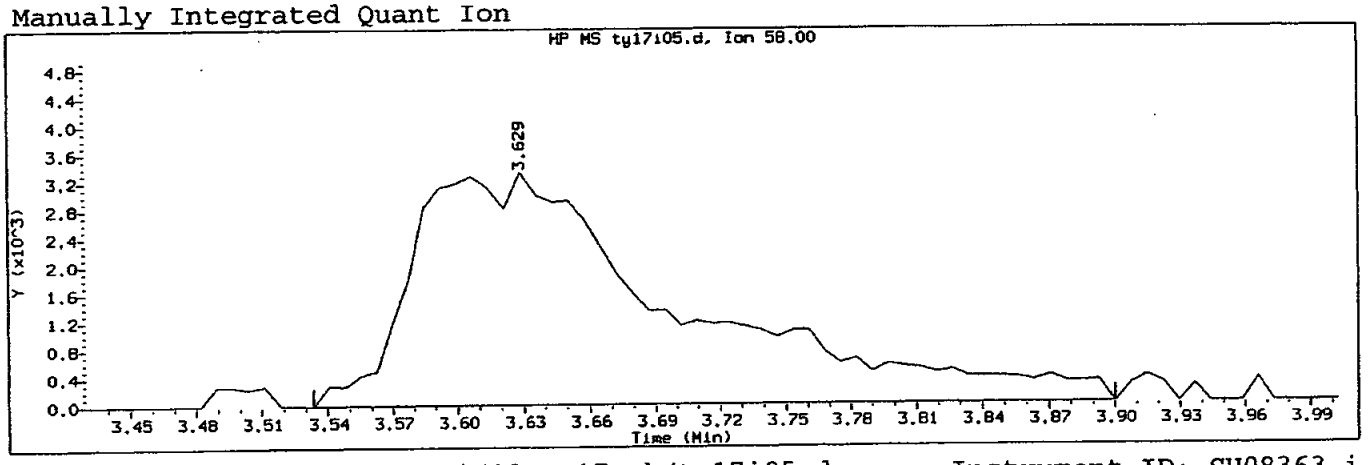
on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895

ASX73 0342

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d
Injection date and time: 17-MAY-2012 15:11

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010

Lab Sample ID: VSTD010

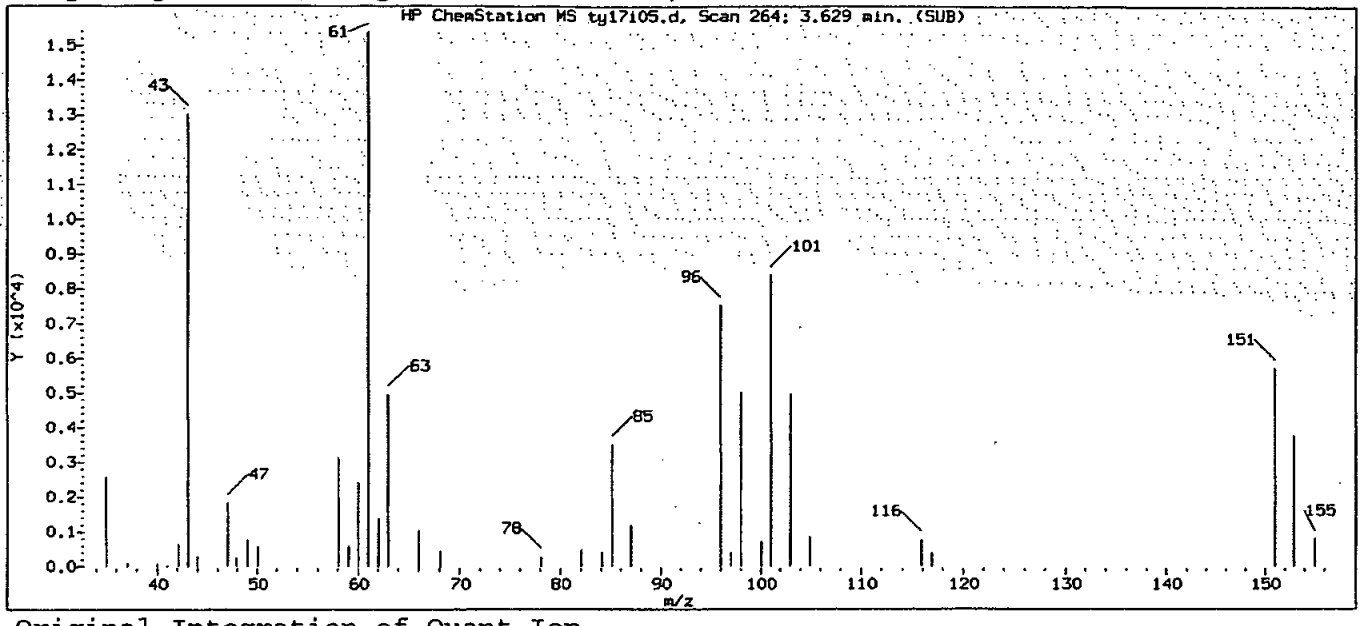
Compound Number	: 21		
Compound Name	: Acetone		
Scan Number	: 264		
Retention Time (minutes)	: 3.629		
Quant Ion	: 58.00		
Area (flag)	: 28139M		
On-Column Amount (ng)	: 22.2231		
Integration start scan	: 250	Integration stop scan:	300
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

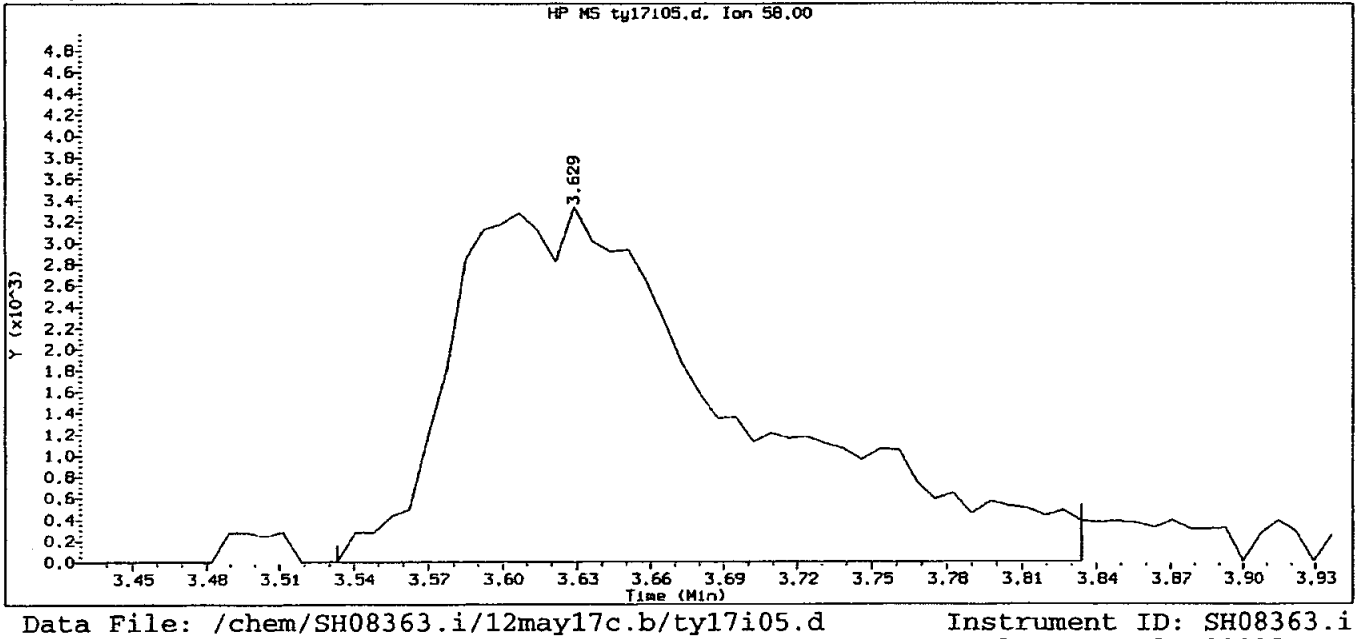
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:38. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

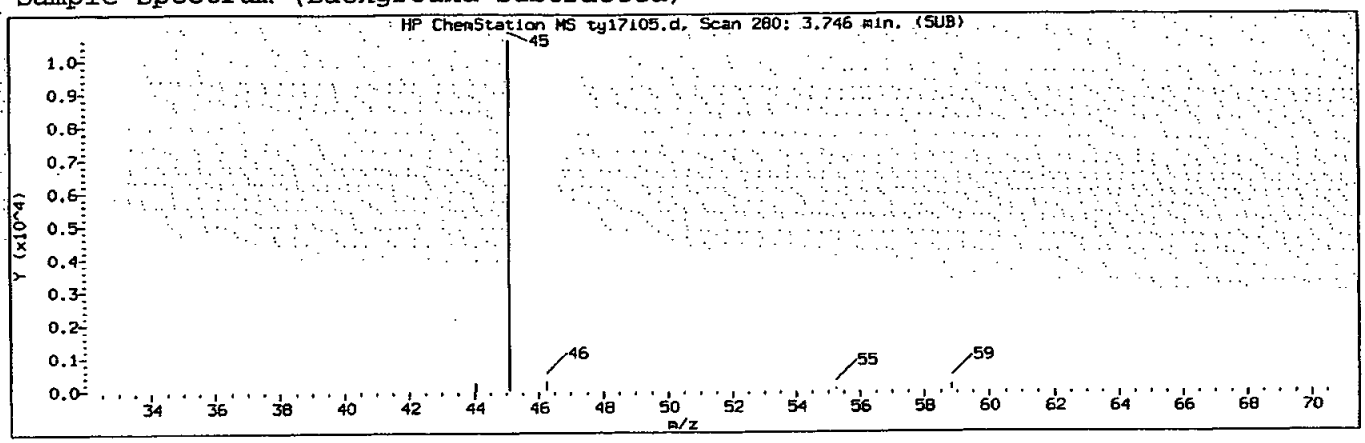
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

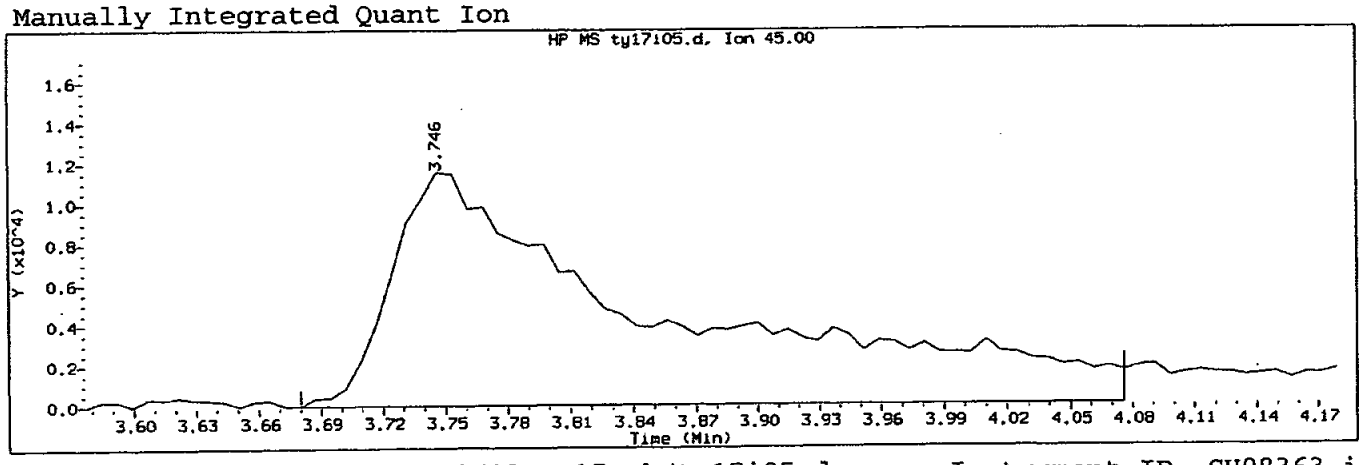
Compound Number : 21
Compound Name : Acetone
Scan Number : 264
Retention Time (minutes): 3.629
Quant Ion : 58.00
Area : 26848
On-column Amount (ng) : 21.6166
Integration start scan : 250 Integration stop scan: 291
Y at integration start : 0 Y at integration end: 0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

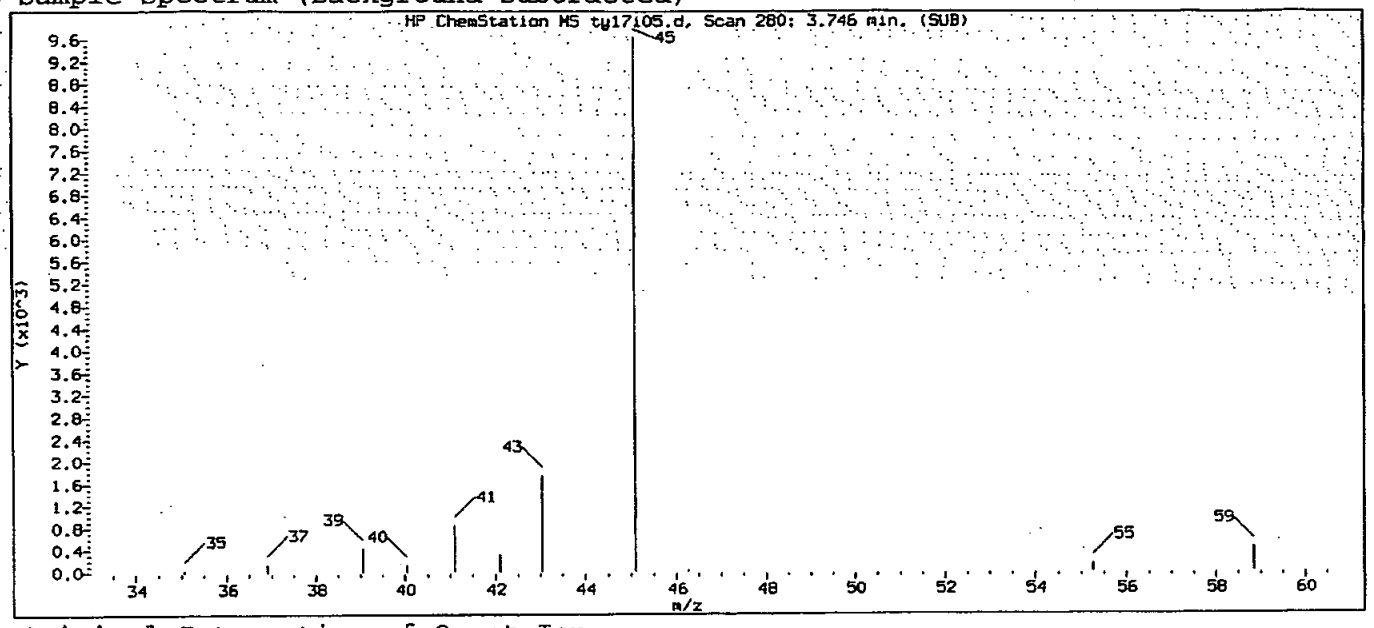
Compound Number	: 23		
Compound Name	: 2-Propanol		
Scan Number	: 280		
Retention Time (minutes)	: 3.746		
Quant Ion	: 45.00		
Area (flag)	: 104118M		
On-Column Amount (ng)	: 109.6672		
Integration start scan	: 270	Integration stop scan:	324
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

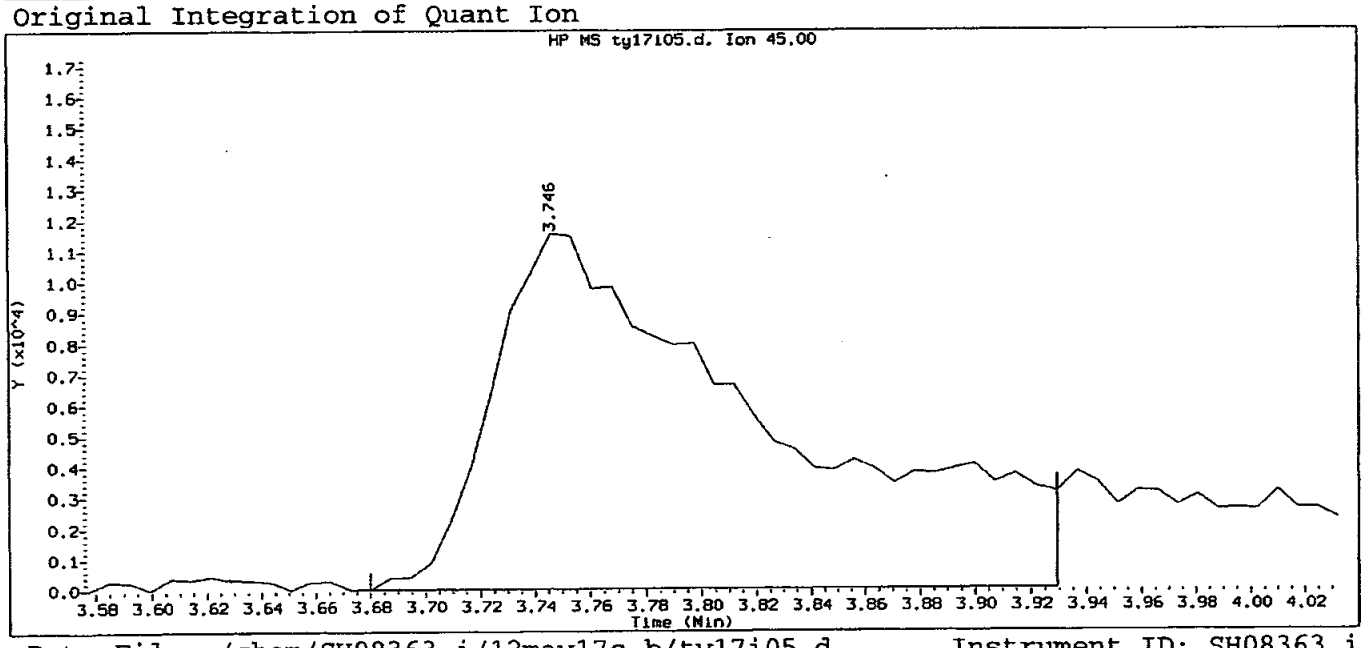
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:38. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 23
Compound Name : 2-Propanol
Scan Number : 280
Retention Time (minutes): 3.746
Quant Ion : 45.00
Area : 80841
On-column Amount (ng) : 95.1482
Integration start scan : 270 Integration stop scan: 304
Y at integration start : 0 Y at integration end: 0

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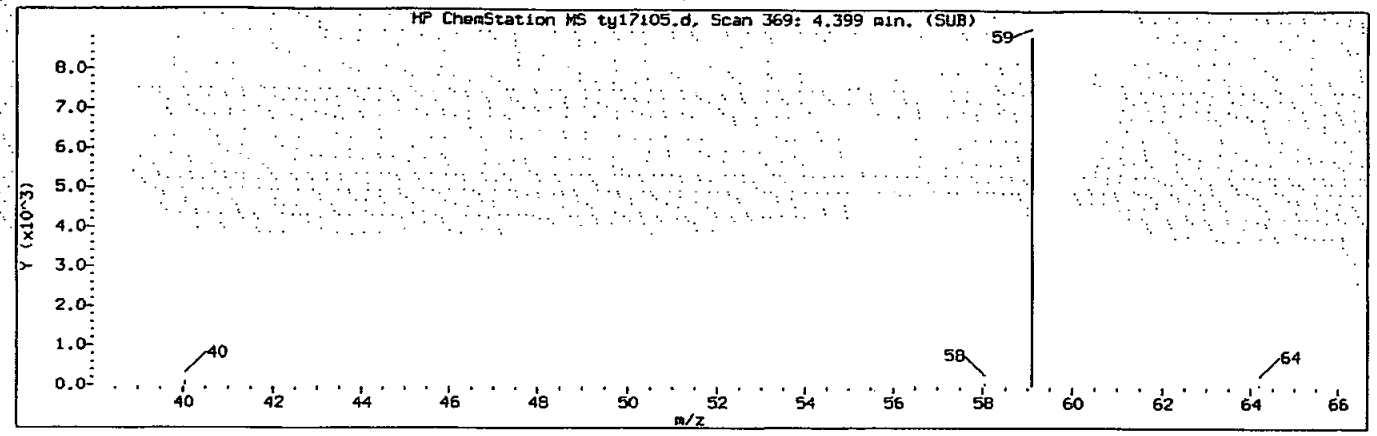
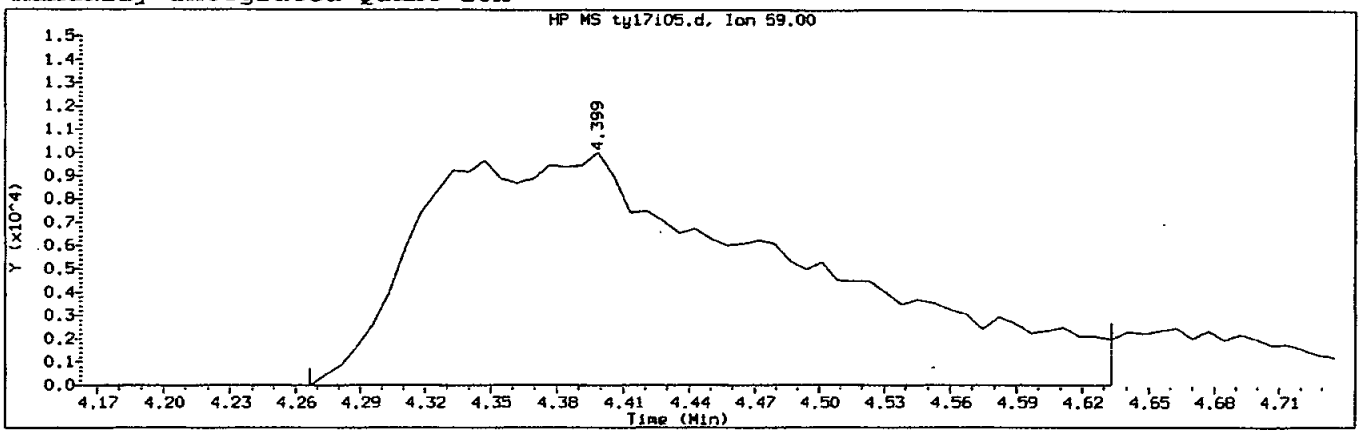
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

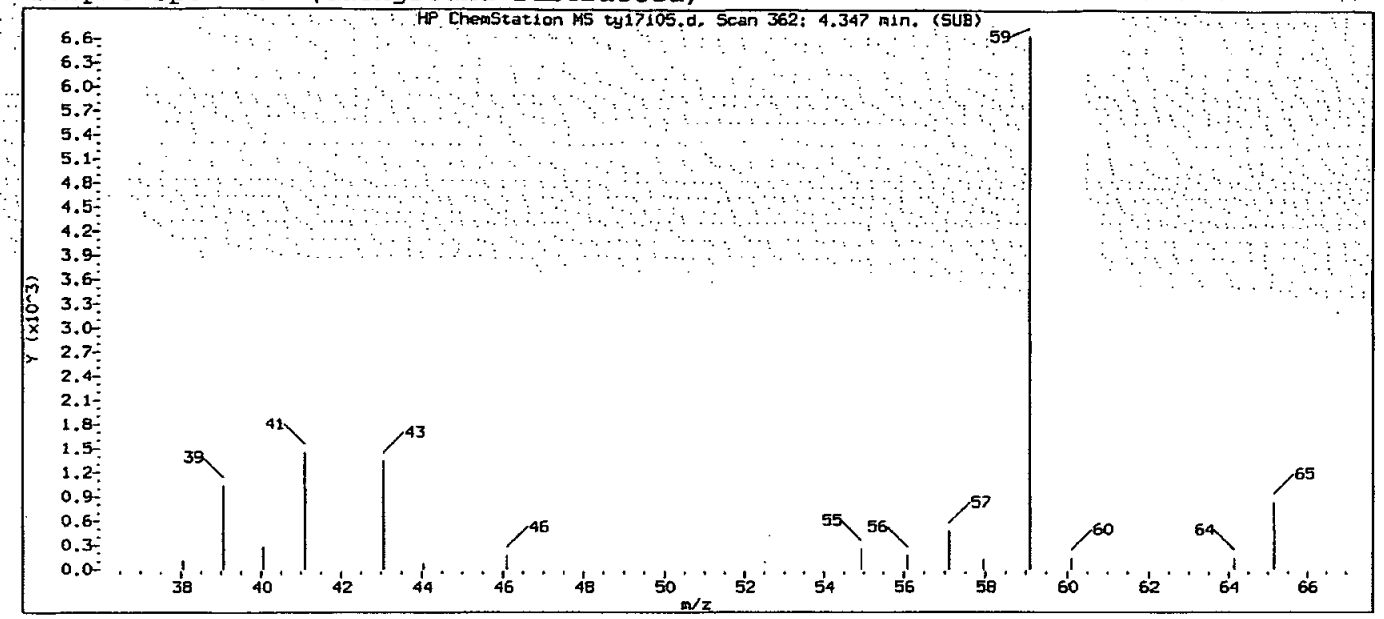
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 369		
Retention Time (minutes)	: 4.399		
Quant Ion	: 59.00		
Area (flag)	: 119180M		
On-Column Amount (ng)	: 109.4933		
Integration start scan	: 350	Integration stop scan:	400
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

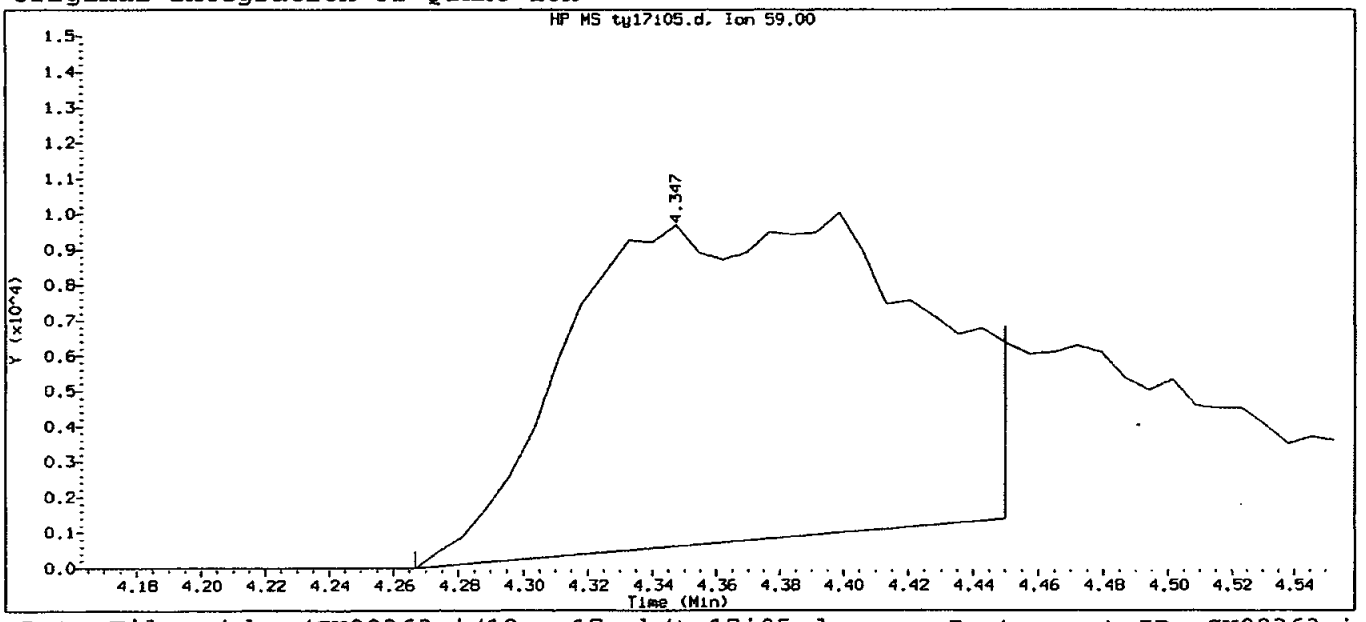
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:38. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 362
Retention Time (minutes): 4.347
Quant Ion : 59.00
Area : 67981
On-column Amount (ng) : 75.3514
Integration start scan : 350 Integration stop scan: 375
Y at integration start : 0 Y at integration end: 1368

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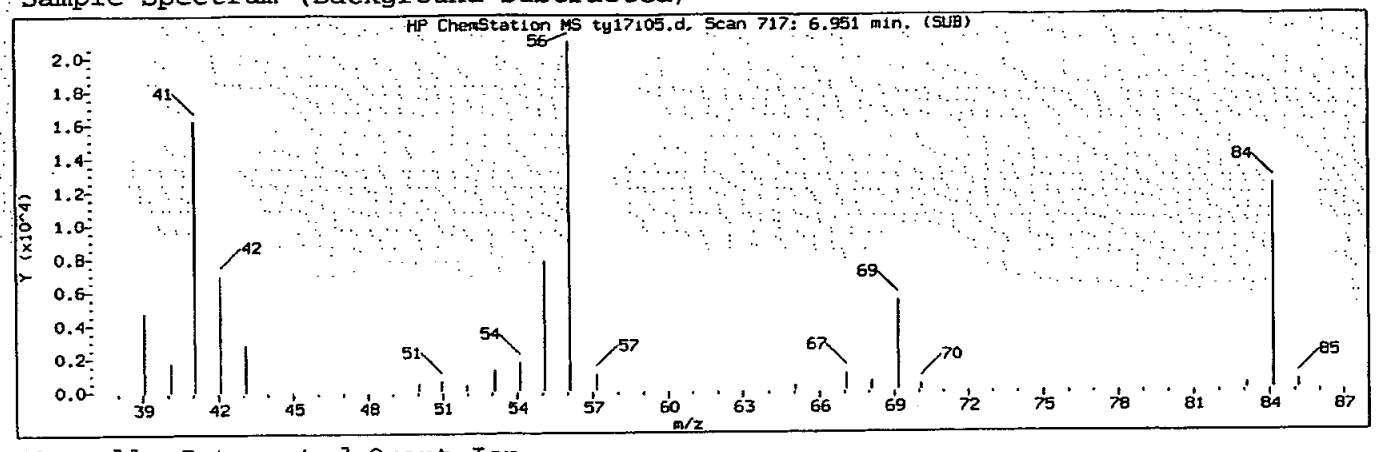
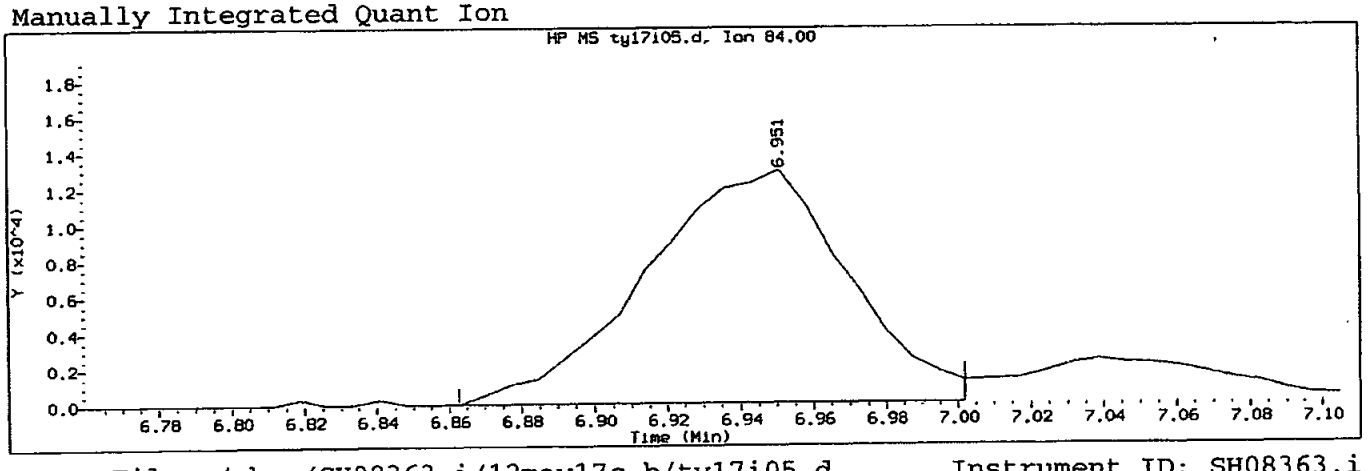
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d
Injection date and time: 17-MAY-2012 15:11

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compound Number	:	57
Compound Name	:	Cyclohexane(mz84)
Scan Number	:	717
Retention Time (minutes)	:	6.951
Quant Ion	:	84.00
Area (flag)	:	50119M
On-Column Amount (ng)	:	8.5724
Integration start scan	:	704
Integration stop scan	:	723
Y at integration start	:	0
Y at integration end	:	0

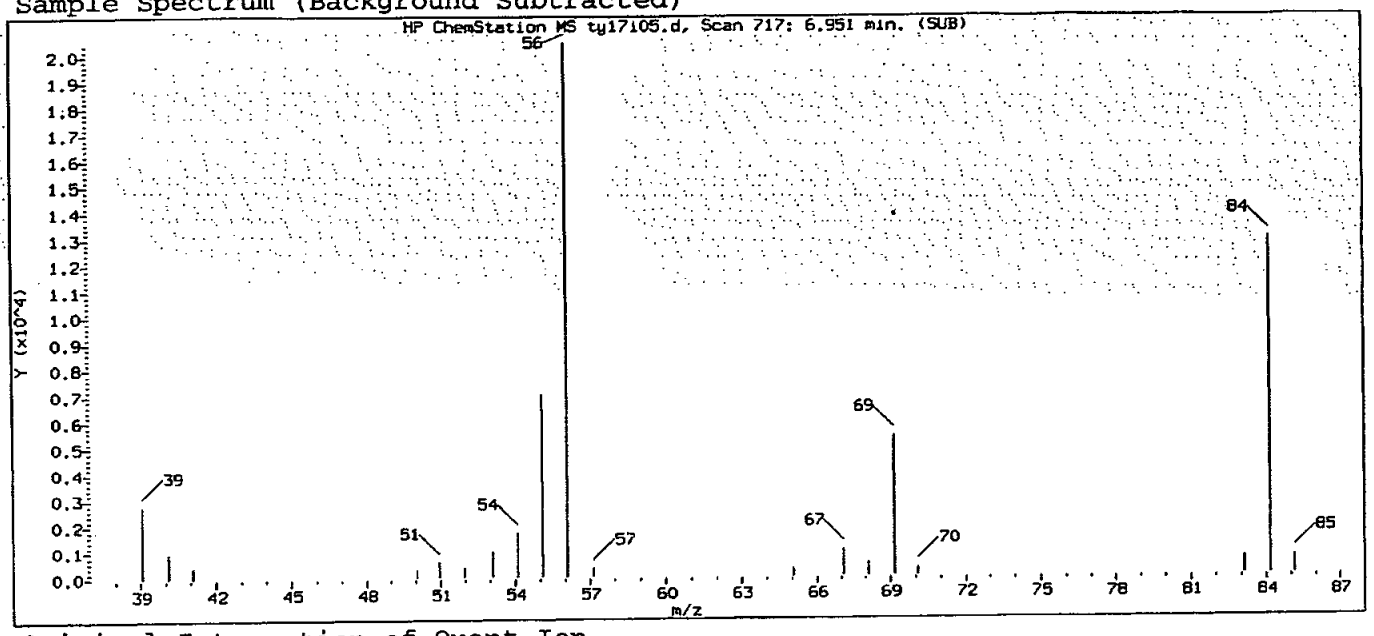
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:38. Target 3.5 esignature user ID: lcp00895

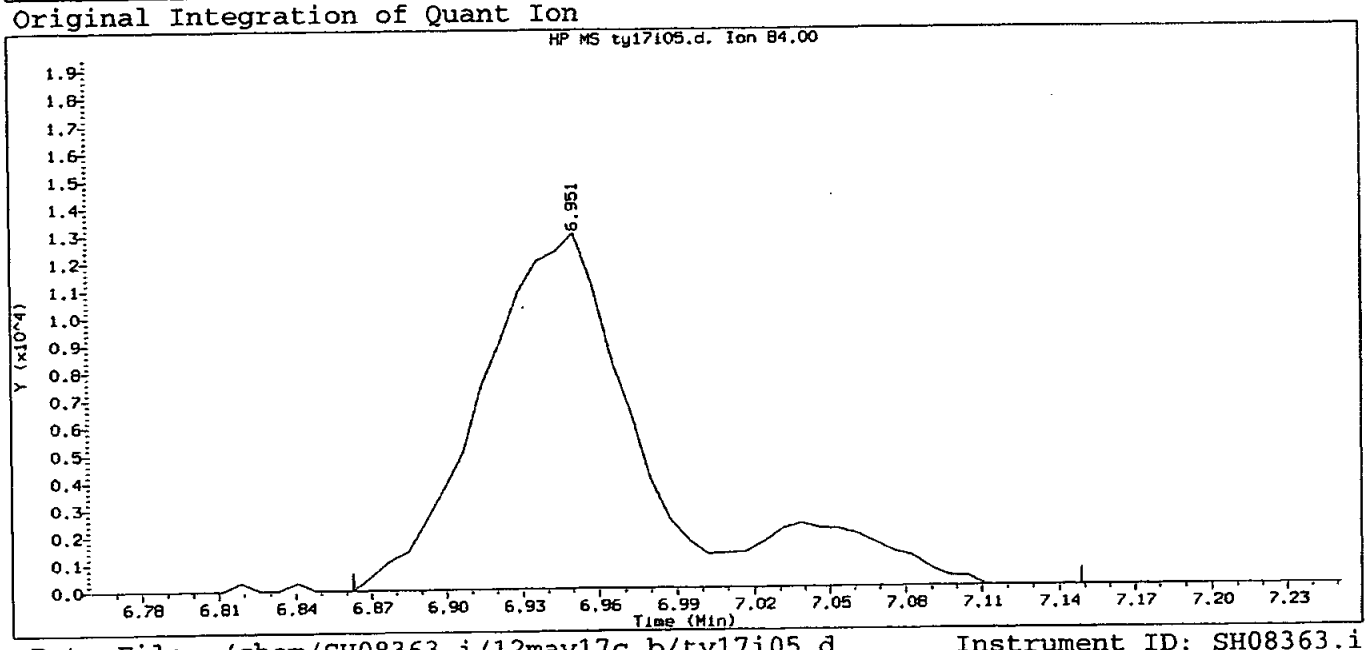
GC/MS audit/management approval: 5/21/12

ASX73 0349

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

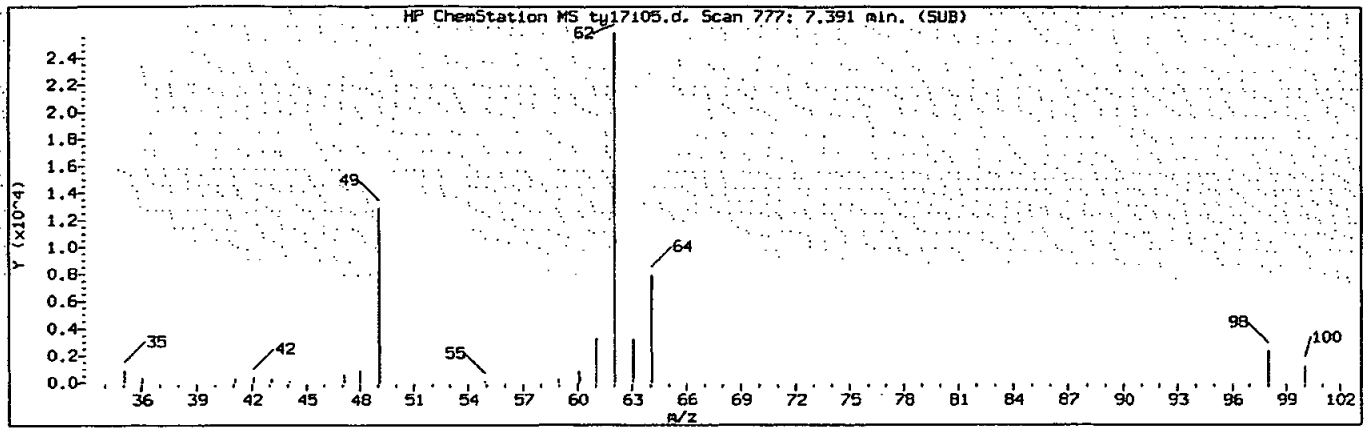
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

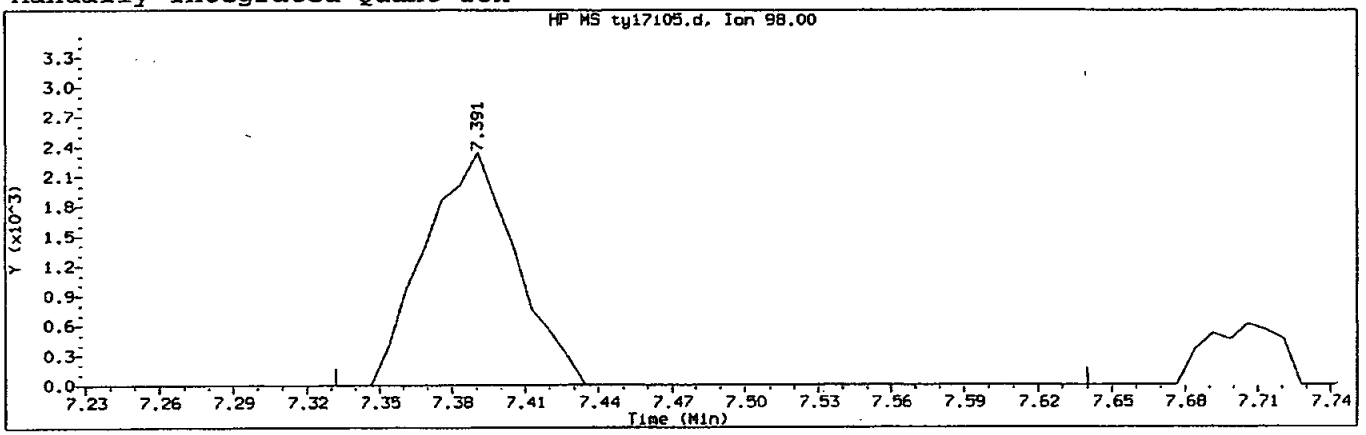
Compound Number	: 57		
Compound Name	: Cyclohexane(mz84)		
Scan Number	: 717		
Retention Time (minutes)	: 6.951		
Quant Ion	: 84.00		
Area	: 59031		
On-column Amount (ng)	: 9.0907		
Integration start scan	: 704	Integration stop scan:	743
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

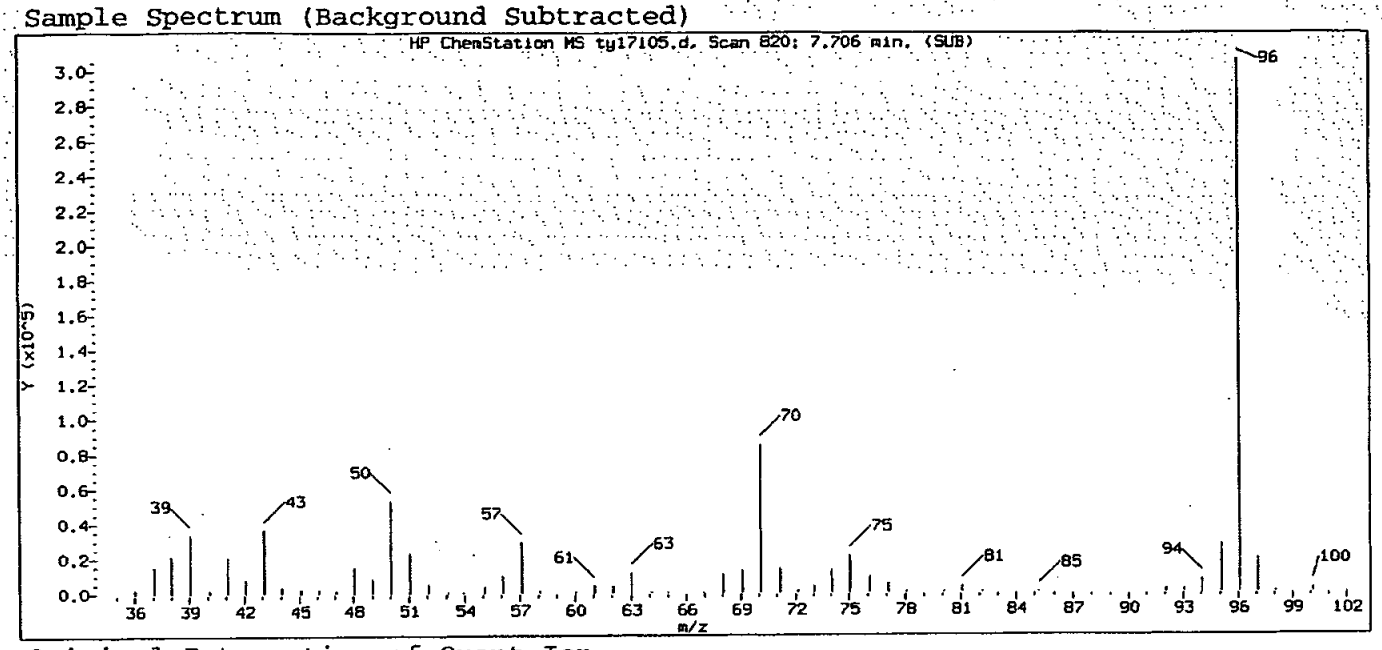
Compound Number	: 67		
Compound Name	: 1,2-Dichloroethane(mz98)		
Scan Number	: 777		
Retention Time (minutes)	: 7.391		
Quant Ion	: 98.00		
Area (flag)	: 6078A		
On-Column Amount (ng)	: 10.7579		
Integration start scan	: 768	Integration stop scan:	810
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

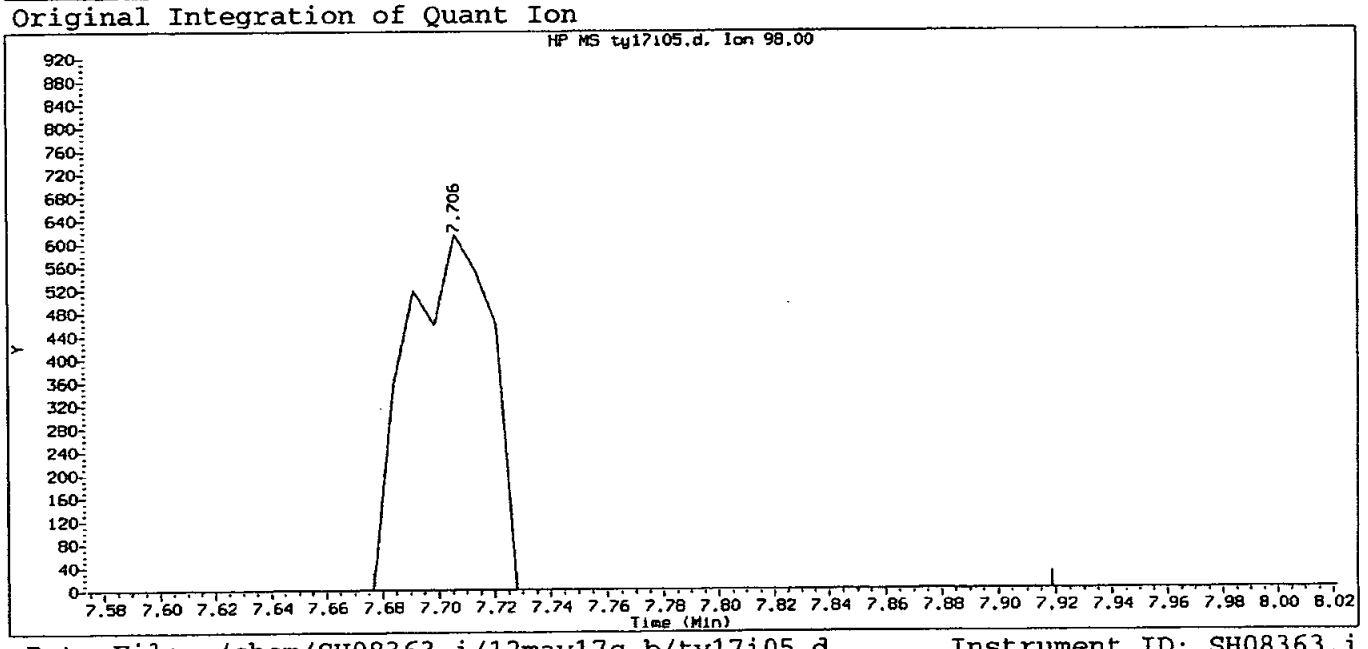
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:38. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____ 5/18/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

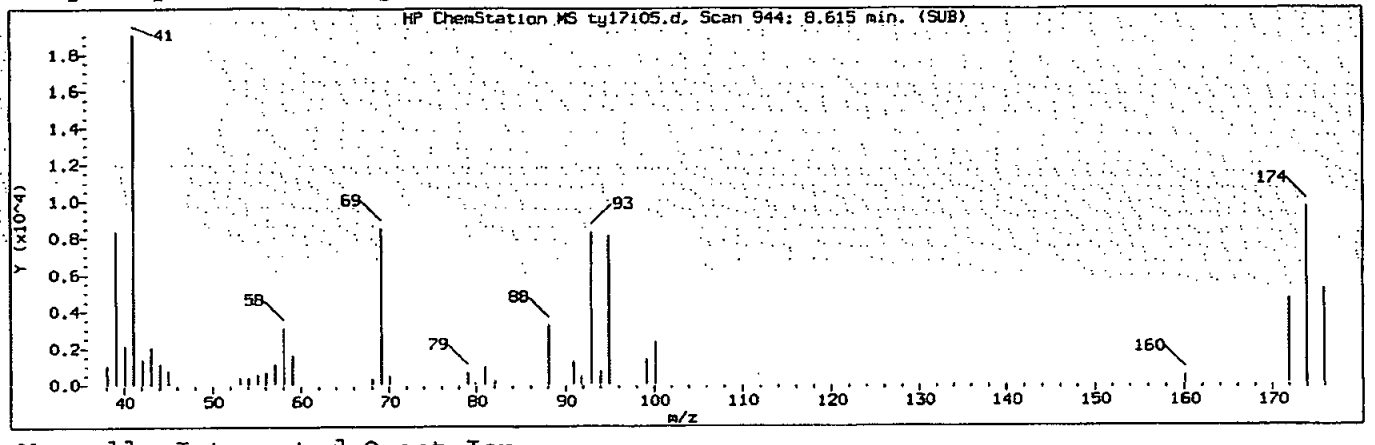
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

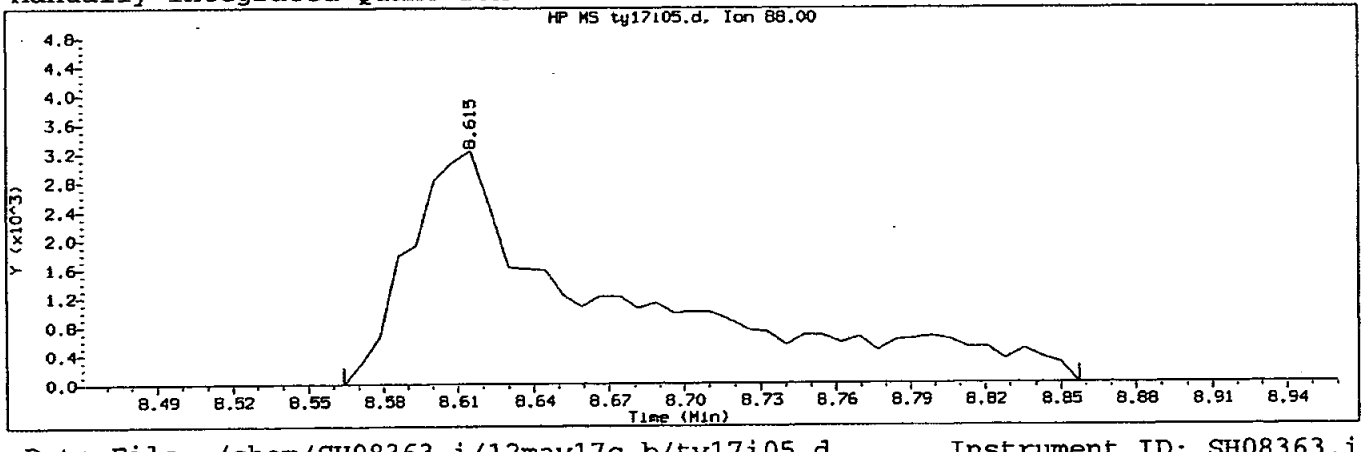
Compound Number : 67
Compound Name : 1,2-Dichloroethane(mz98)
Scan Number : 820
Retention Time (minutes): 7.706
Quant Ion : 98.00
Area : 1300
On-column Amount (ng) : 61.3202
Integration start scan : 815 Integration stop scan: 848
Y at integration start : 0 Y at integration end: 0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

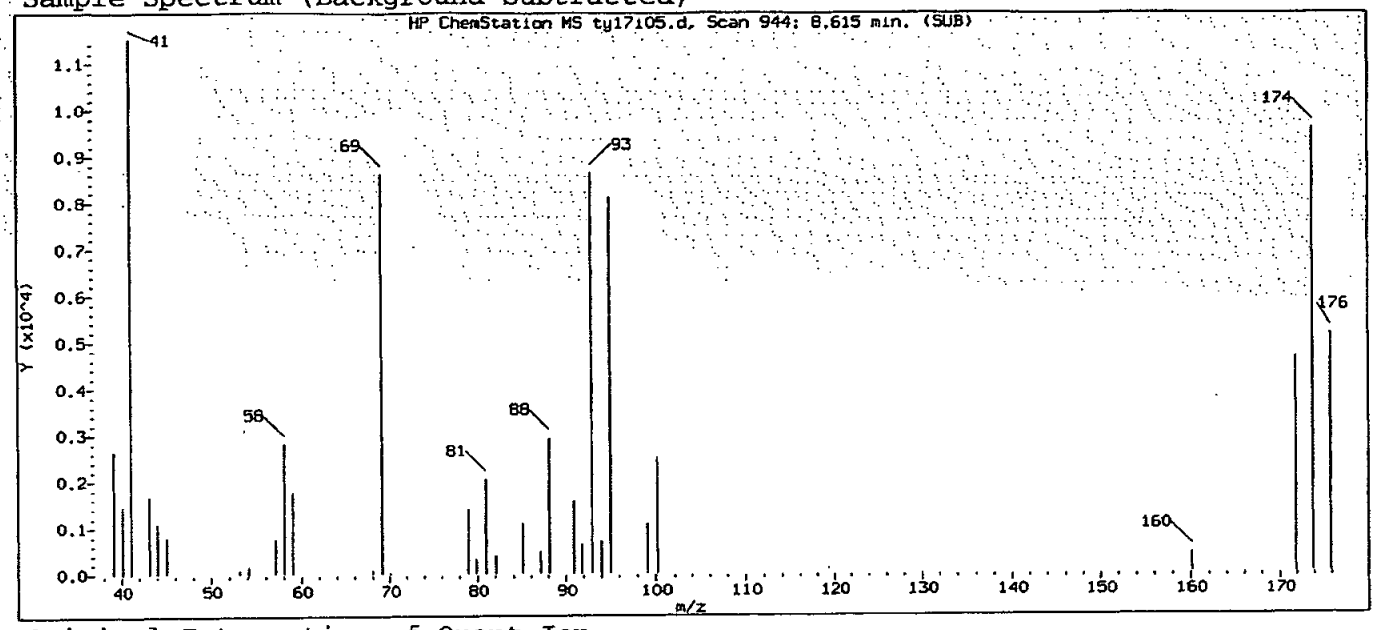
Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 944		
Retention Time (minutes)	: 8.615		
Quant Ion	: 88.00		
Area (flag)	: 18392M		
On-Column Amount (ng)	: 265.6605		
Integration start scan	: 936	Integration stop scan:	976
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

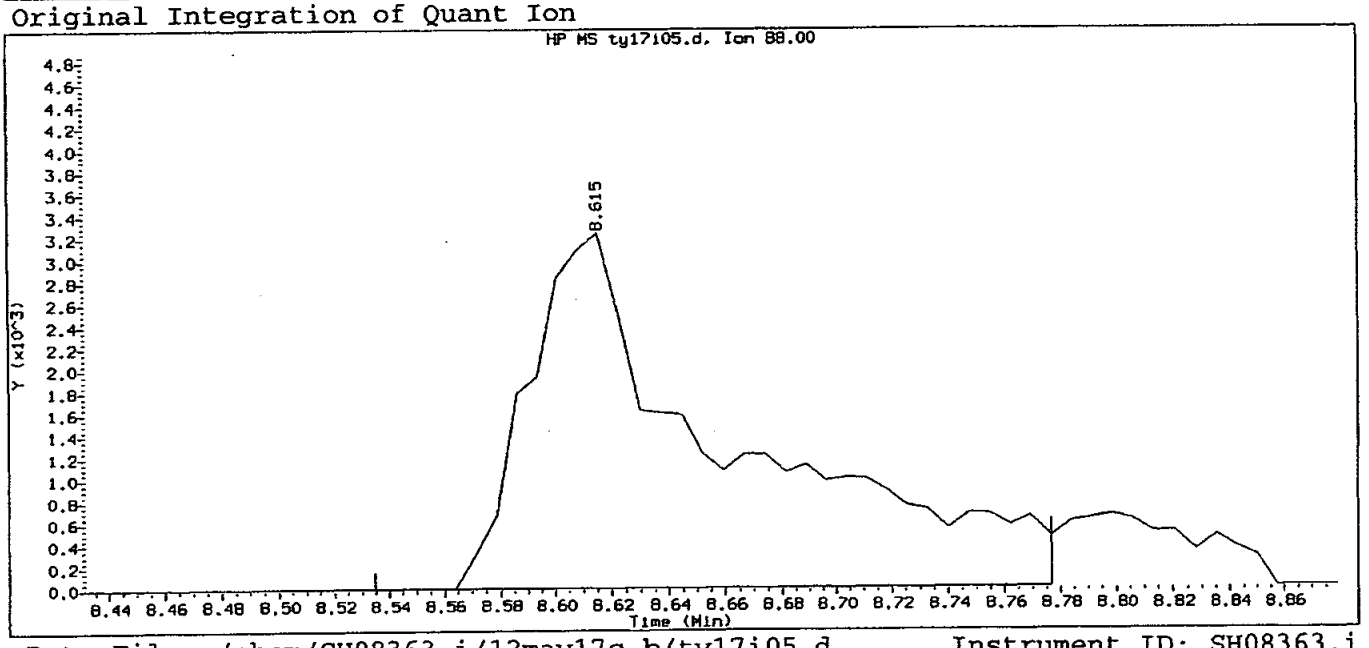
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:38. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

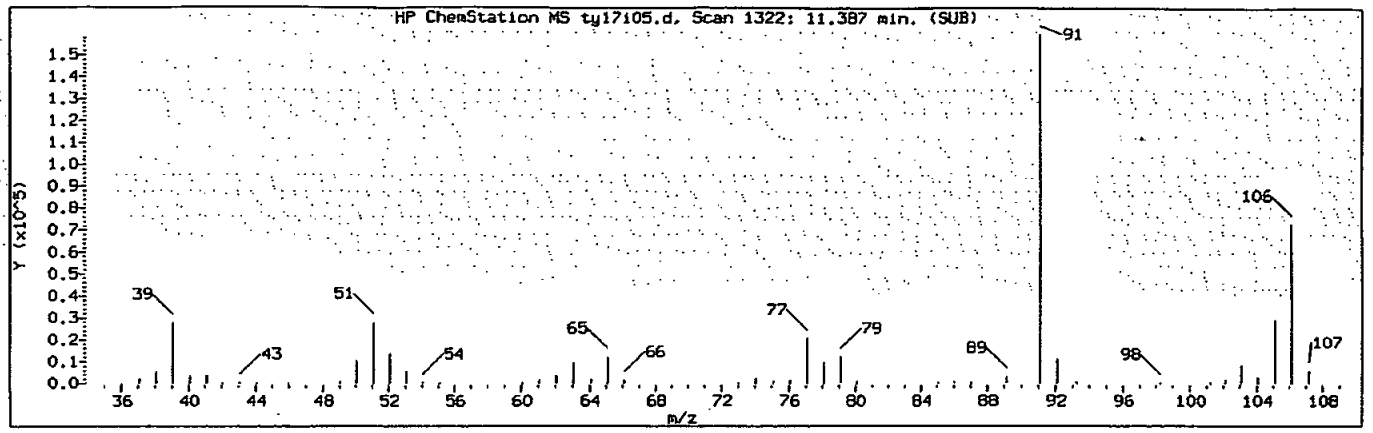
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

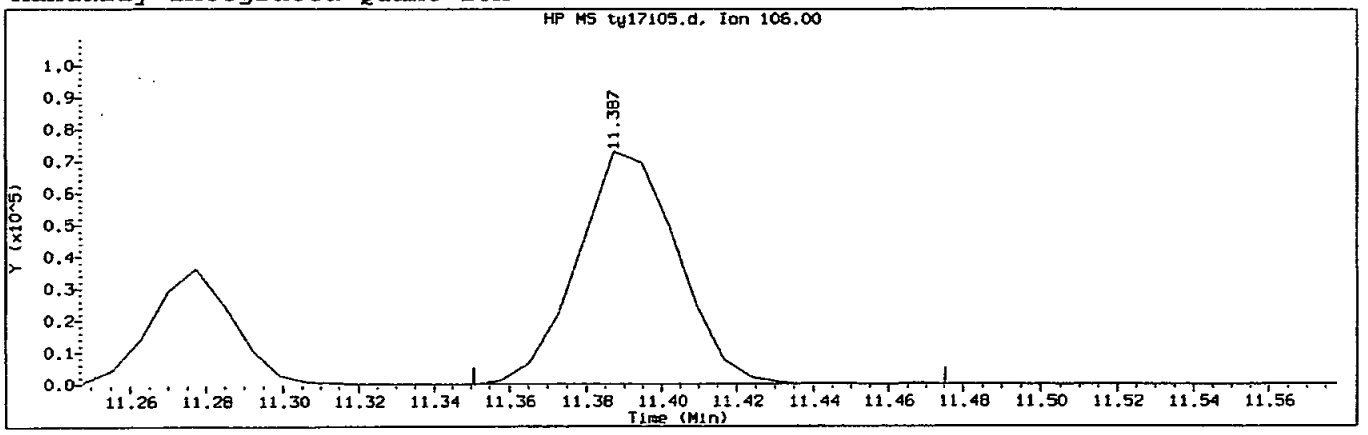
Compound Number : 82
Compound Name : 1,4-Dioxane
Scan Number : 944
Retention Time (minutes): 8.615
Quant Ion : 88.00
Area : 16129
On-column Amount (ng) : 293.8566
Integration start scan : 932 Integration stop scan: 965
Y at integration start : 0 Y at integration end: 0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

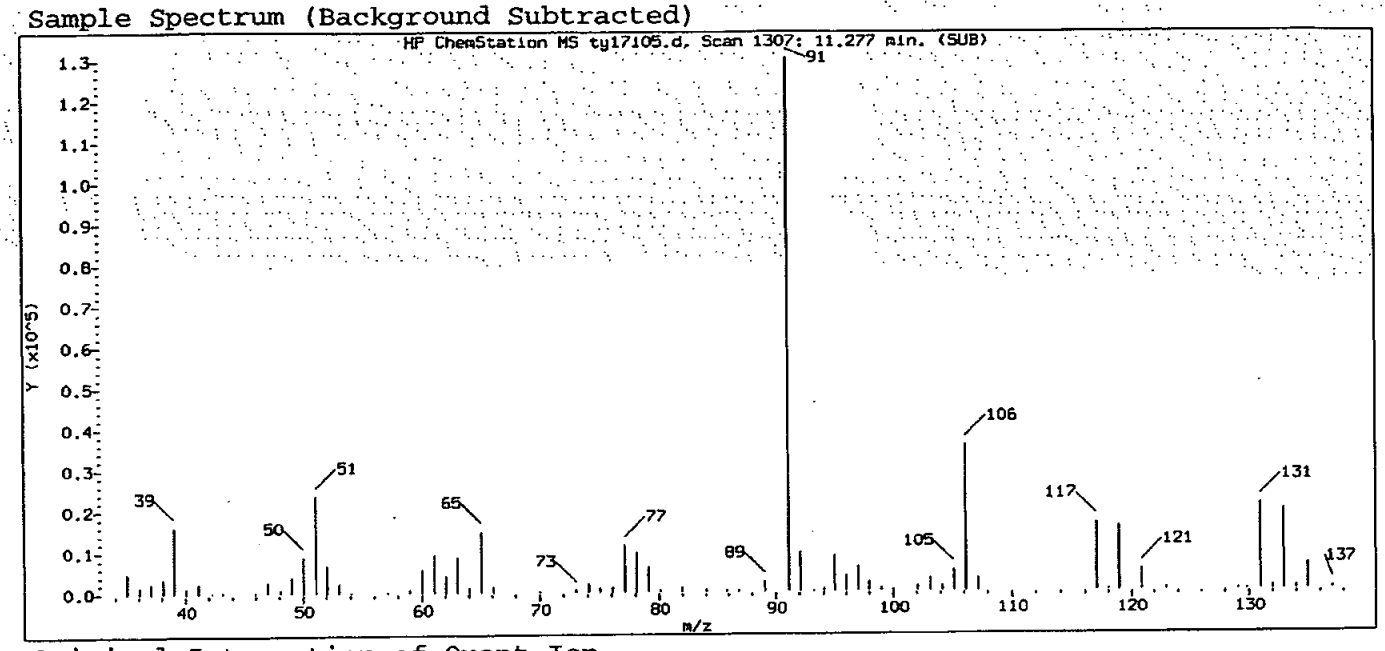
Compound Number : 115
Compound Name : m+p-Xylene
Scan Number : 1322
Retention Time (minutes): 11.387
Quant Ion : 106.00
Area (flag) : 135144A
On-Column Amount (ng) : 21.3422
Integration start scan : 1316 Integration stop scan: 1333
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

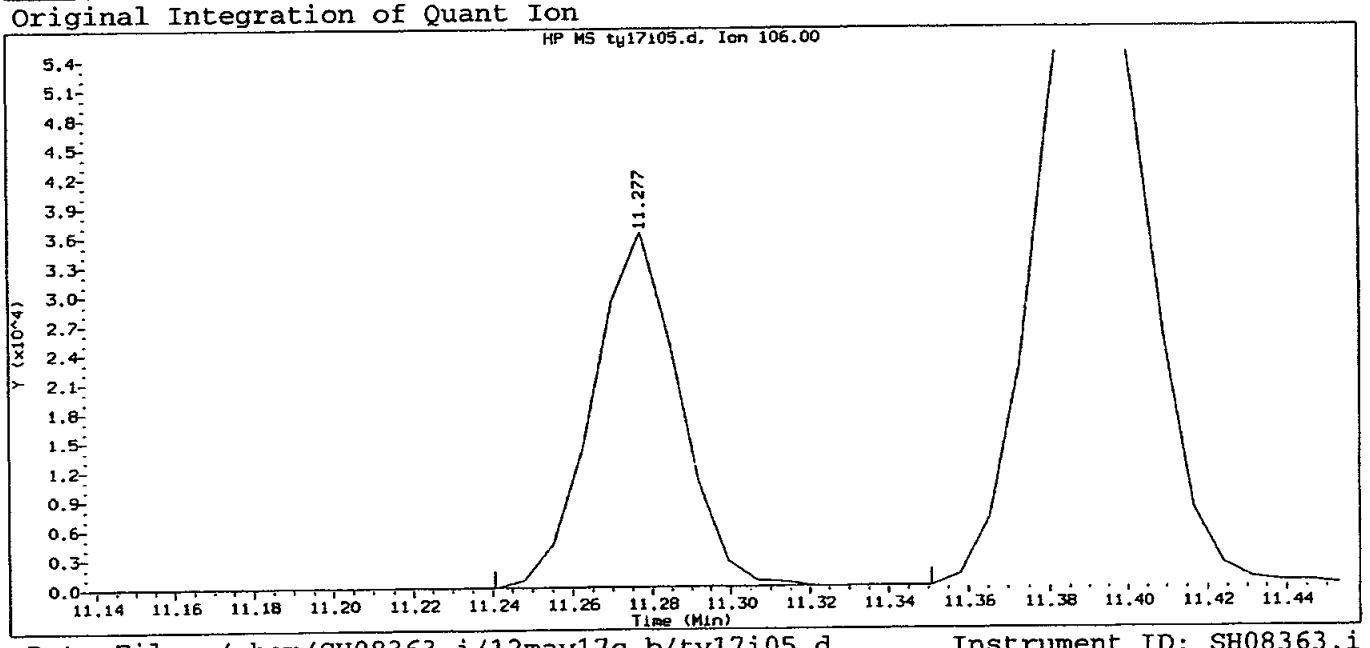
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:38. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d
Injection date and time: 17-MAY-2012 15:11

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sublist used: 8260WI-F

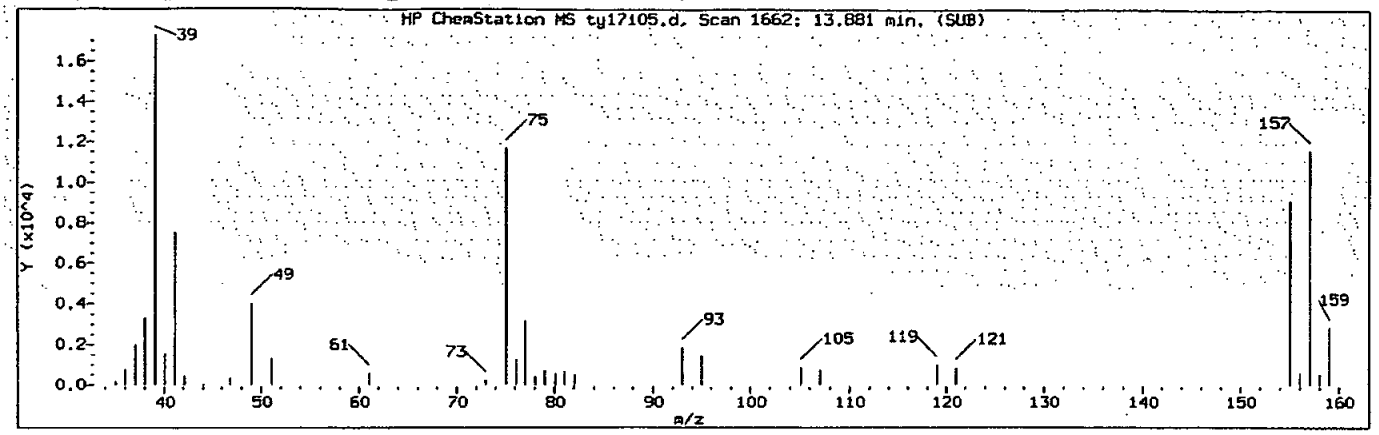
Sample Name: VSTD010

Lab Sample ID: VSTD010

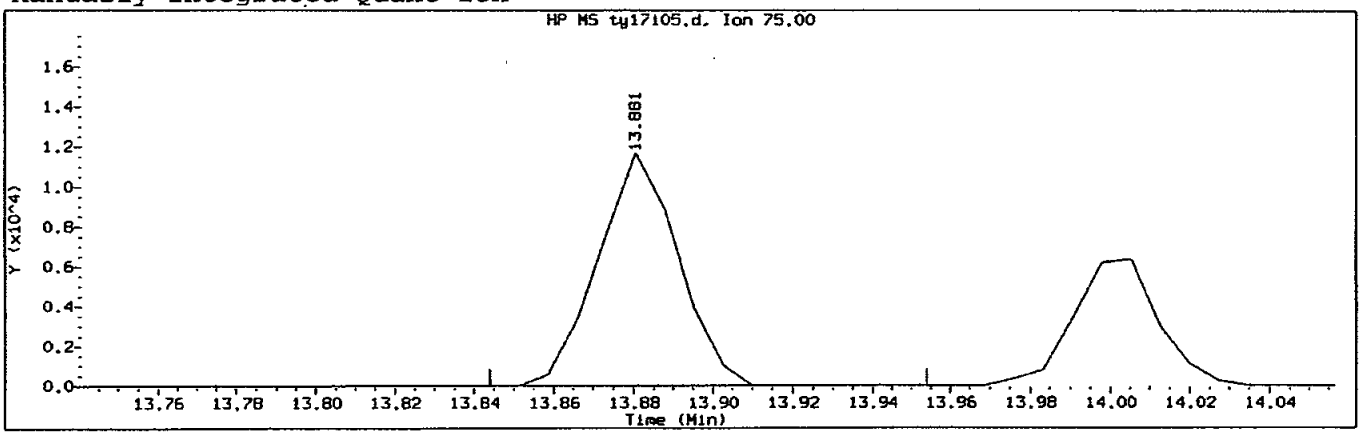
Compound Number	: 115		
Compound Name	: m+p-Xylene		
Scan Number	: 1307		
Retention Time (minutes)	: 11.277		
Quant Ion	: 106.00		
Area	: 54760		
On-column Amount (ng)	: 15.4372		
Integration start scan	: 1301	Integration stop scan:	1316
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Linda C. Pape on 05/18/2012 at 07:38.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:38 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

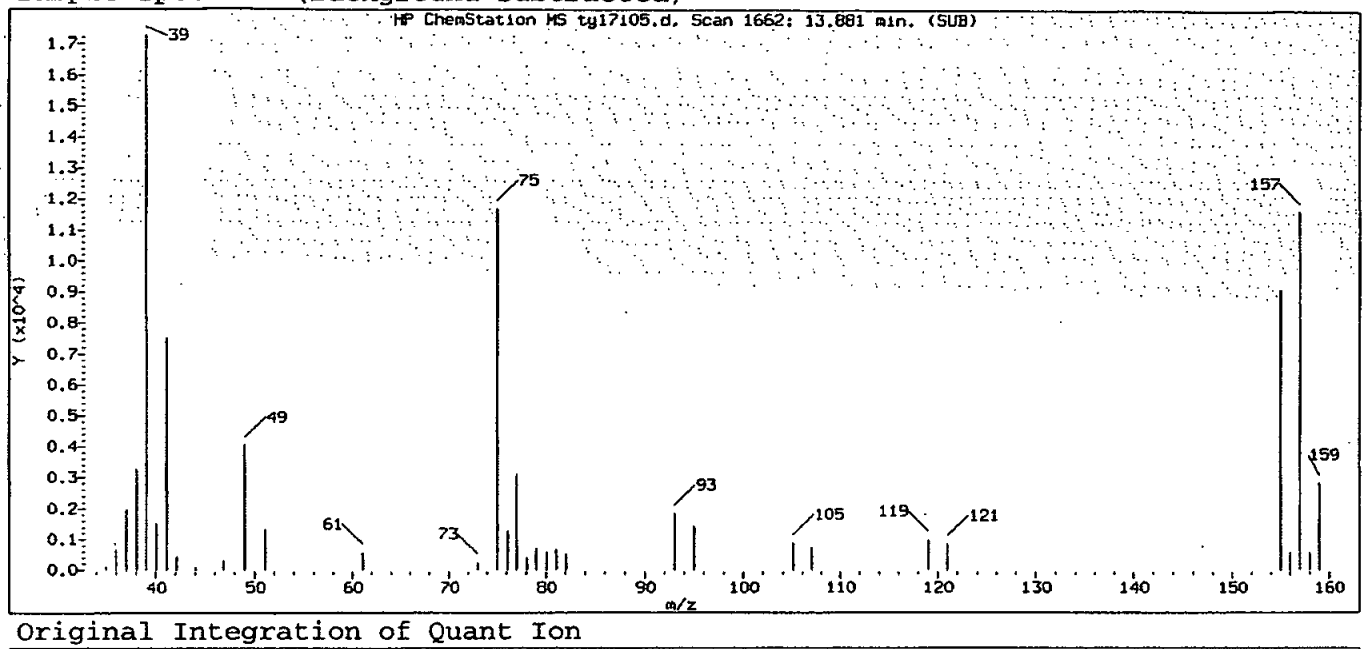
Compound Number : 151
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1662
Retention Time (minutes): 13.881
Quant Ion : 75.00
Area (flag) : 16279M
On-Column Amount (ng) : 9.0159
Integration start scan : 1656 Integration stop scan: 1671
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

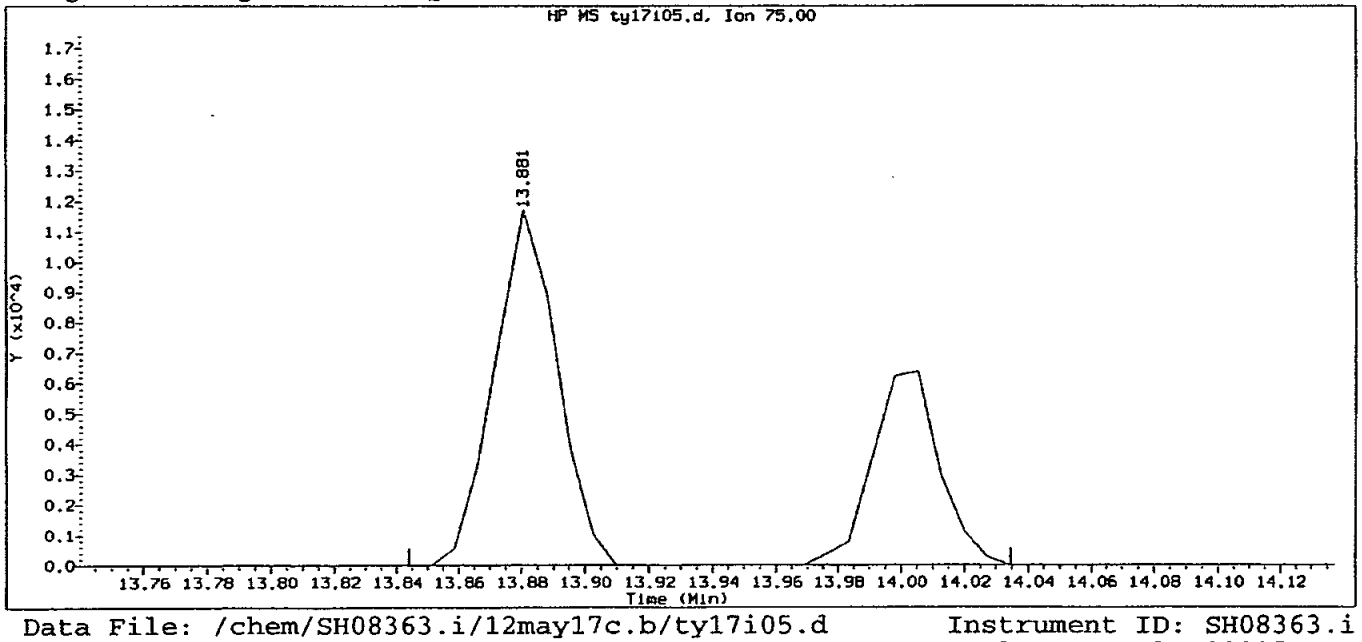
Analyst responsible for change: Digitally signed by Linda C. Pape on 05/18/2012 at 07:38. Target 3.5 esignature user ID: lcp00895

GC/MS audit/management approval: _____ 5/18/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i05.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:11 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:00
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 151
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1662
Retention Time (minutes): 13.881
Quant Ion : 75.00
Area : 25720
On-column Amount (ng) : 12.1958
Integration start scan : 1656 Integration stop scan: 1682
Y at integration start : 0 Y at integration end: 0

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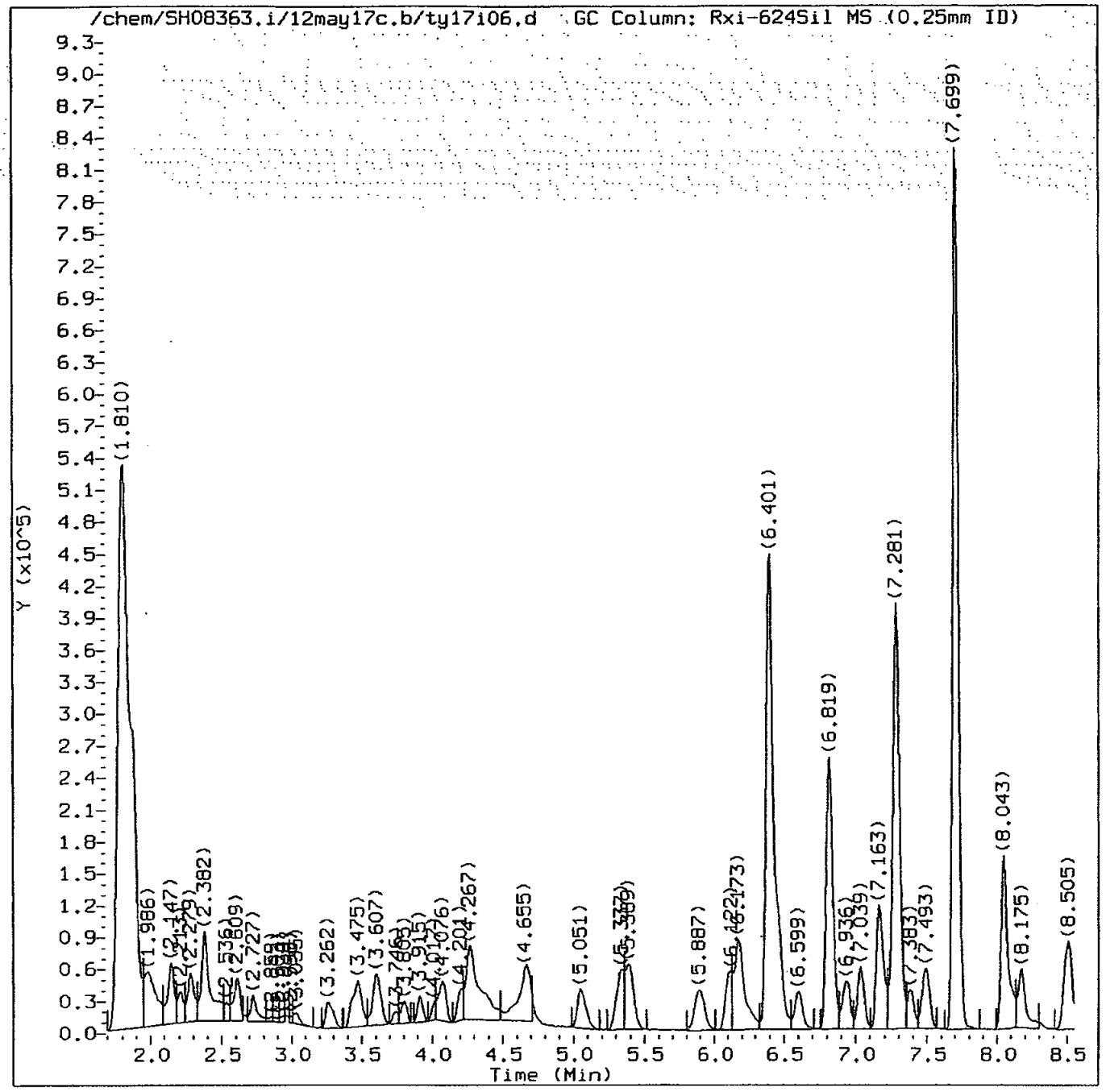
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i06.d
Injection date and time: 17-MAY-2012 15:34

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 21-MAY-2012 09:58

Sublist used: 8260WI-F

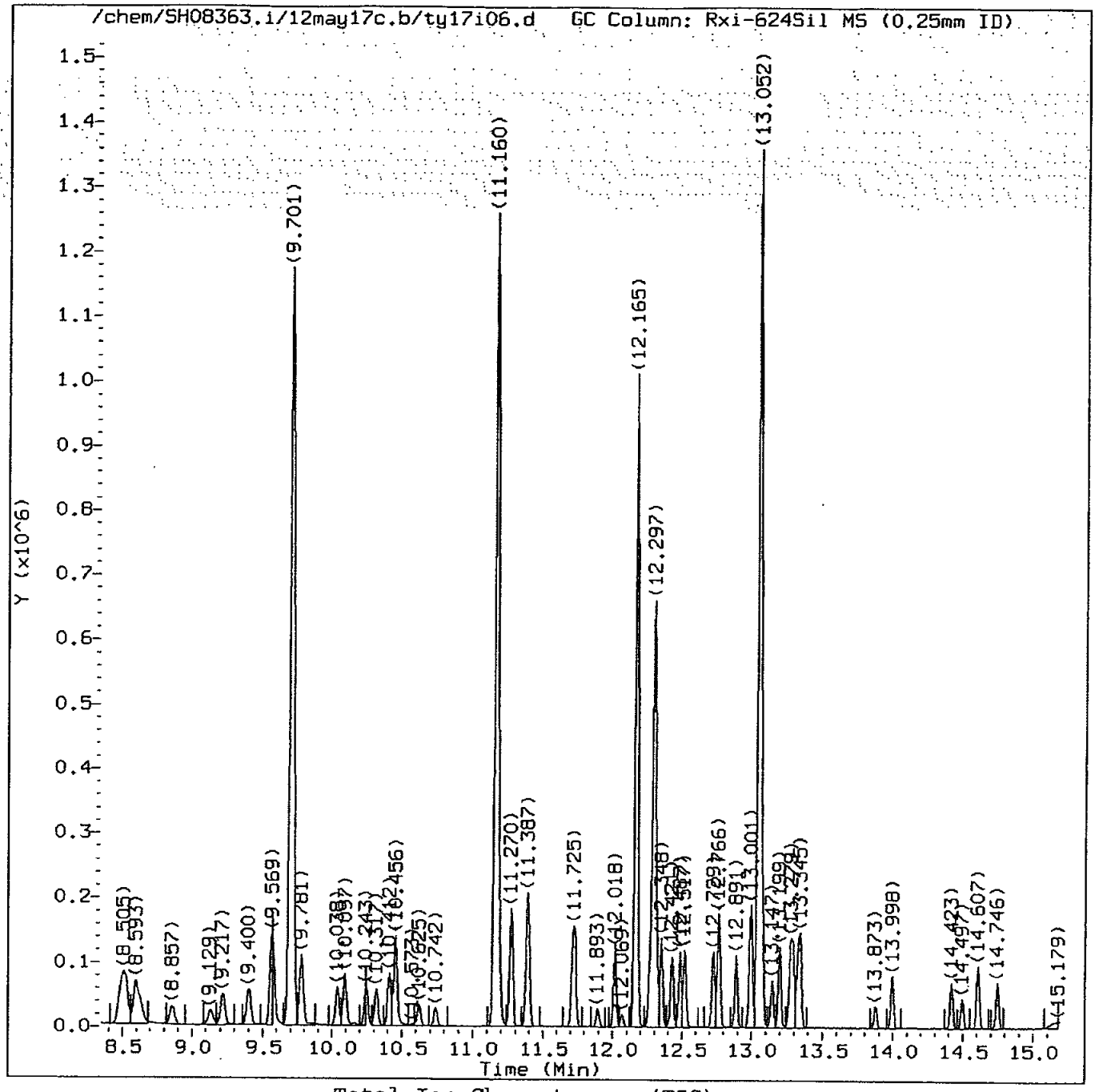
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004

Lab Sample ID: VSTD004

Digitally signed by Anita M. Dale
on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

ASX73 0359



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i06.d
Injection date and time: 17-MAY-2012 15:34

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 21-MAY-2012 09:58

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004

Lab Sample ID: VSTD004

Digitally signed by Anita M. Dale
on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

ASX73 0360

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i06.d
Injection date and time: 17-MAY-2012 15:34

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sublist used: 8260WI-F

Sample Name: VSTD004

Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.015	85	36700	4.195
2) Chloromethane	(1)	2.147	50	62457	4.265
4) Vinyl Chloride	(1)	2.279	62	39918	4.282
7) Bromomethane	(1)	2.617	94	23316	4.257
8) Chloroethane	(1)	2.727	64	21375	4.295
13) Trichlorofluoromethane	(1)	3.035	101	22398	4.083
15) Ethyl Ether	(1)	3.262	59	26014	5.840
17) Acrolein	(4)	3.475	56	114955	37.009
18) 1,1-Dichloroethene	(1)	3.607	96	15831	4.065
21) Acetone	(1)	3.607	58	10017M	8.111
19) Freon 113	(1)	3.629	101	14614	3.724
23) 2-Propanol	(4)	3.746	45	65818M	70.604
22) Methyl Iodide	(1)	3.805	142	30770	3.923
24) Carbon Disulfide	(1)	3.915	76	59593	3.681
26) Methyl Acetate	(1)	4.017	43	71368	4.225
25) Allyl Chloride	(1)	4.076	41	68601	3.772
28)*t-Butyl Alcohol-d10	(4)	4.259	65	256048	250.000
27) Methylene Chloride	(1)	4.274	84	22762	3.810
29) t-Butyl Alcohol	(4)	4.384	59	96633M	82.909
30) Acrylonitrile	(1)	4.567	53	22410	3.798
32) trans-1,2-Dichloroethene	(1)	4.670	96	18986	4.116
31) Methyl Tertiary Butyl Ether	(1)	4.670	73	57776	3.741
34) n-Hexane	(1)	5.051	57	31885	3.810
36) 1,1-Dichloroethane	(1)	5.308	63	44061	3.984
41) 1,2-Dichloroethene (total)	(1)		96	39120	8.006
37) di-Isopropyl Ether	(1)	5.367	45	140578	3.928
40) 2-Chloro-1,3-Butadiene	(1)	5.403	53	38205	3.682
42) Ethyl t-Butyl Ether	(1)	5.887	59	78364	3.827
45) 2-Butanone	(1)	6.085	43	89046	7.872
44) cis-1,2-Dichloroethene	(1)	6.122	96	20134	3.890
43) 2,2-Dichloropropane	(1)	6.151	77	22194	3.916
46) Propionitrile	(4)	6.188	54	178715	79.779
47) Methacrylonitrile	(1)	6.393	67	164052	38.666
50) Tetrahydrofuran	(4)	6.459	71	11540	7.601
49) Bromochloromethane	(1)	6.467	128	10923	3.961
52) Chloroform	(1)	6.606	83	36184	3.913
53)$Dibromofluoromethane(mz111)	(1)	6.811	111	250697	49.455
54)$Dibromofluoromethane	(1)	6.819	113	248225	49.768

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	6.833	97	19931	3.878
56) Cyclohexane(mz69)	(1)	6.936	69	10182	3.926
57) Cyclohexane(mz84)	(1)	6.936	84	23065	3.839
58) Cyclohexane	(1)	6.943	56	41551	3.804
59) 1,1-Dichloropropene	(1)	7.031	75	26836	3.921
60) Carbon Tetrachloride	(1)	7.046	117	15218	3.786
61) Isobutyl Alcohol	(4)	7.163	41	152444	200.010
62)$1,2-Dichloroethane-d4	(1)	7.273	102	61809	51.097
63)$1,2-Dichloroethane-d4(mz104)	(1)	7.281	104	38610	50.077
64)$1,2-Dichloroethane-d4(mz65)	(1)	7.281	65	310649	50.164
65) Benzene	(1)	7.303	78	81371	4.031
66) 1,2-Dichloroethane	(1)	7.383	62	30385	3.908
67) 1,2-Dichloroethane(mz98)	(1)	7.383	98	2346A	4.257
68) t-Amyl Methyl Ether	(1)	7.493	73	58203	3.747
69) n-Heptane	(1)	7.699	43	48890	5.337
70)*Fluorobenzene	(1)	7.699	96	875785	50.000
73) n-Butanol	(4)	8.043	56	160973	362.473
74) Trichloroethene	(1)	8.175	95	18311	3.919
76) Methylcyclohexane	(1)	8.491	83	29109	4.110
79) 1,2-Dichloropropane	(1)	8.520	63	25826	3.885
81) Methyl Methacrylate	(1)	8.586	69	21195	3.519
82) 1,4-Dioxane	(4)	8.615	88	13643M	199.858
80) Dibromomethane	(1)	8.630	93	16304	3.940
83) Bromodichloromethane	(1)	8.857	83	23050	3.666
84) 2-Nitropropane	(1)	9.136	41	21303	6.121
85) 2-Chloroethyl Vinyl Ether	(1)	9.217	63	20819	3.531
87) cis-1,3-Dichloropropene	(1)	9.400	75	29009	3.495
88) 4-Methyl-2-Pentanone	(1)	9.561	58	43446	7.074
90)$Toluene-d8	(2)	9.701	98	795011	51.235
91)$Toluene-d8(mz100)	(2)	9.701	100	531389	50.698
93) Toluene	(2)	9.781	92	43299	4.025
96) trans-1,3-Dichloropropene	(2)	10.038	75	26903	4.262
97) Ethyl Methacrylate	(2)	10.097	69	32874	3.470
98) 1,1,2-Trichloroethane	(2)	10.243	97	18458	3.888
99) Tetrachloroethene	(2)	10.324	166	17555	4.123
100) 1,3-Dichloropropane	(2)	10.412	76	36545	3.919
101) 2-Hexanone	(2)	10.456	58	47853	6.894
103) Dibromochloromethane	(2)	10.625	129	15307	4.110

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

ASX73 0362

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i06.d
Injection date and time: 17-MAY-2012 15:34

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 21-MAY-2012 09:58

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004

Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
104) 1,2-Dibromoethane	(2)	10.742	107	20865	3.821
107)*Chlorobenzene-d5	(2)	11.160	117	568313	50.000
108) Chlorobenzene	(2)	11.189	112	45433	4.040
114) Ethylbenzene	(2)	11.270	106	21200	3.766
111) 1,1,1,2-Tetrachloroethane	(2)	11.270	131	12336	3.462
116) Xylene (Total)	(2)		106	79606	11.508
115) m+p-Xylene	(2)	11.387	106	53982A	7.725
117) o-Xylene	(2)	11.717	106	25624	3.783
119) Styrene	(2)	11.732	104	41282	3.493
120) Bromoform	(2)	11.893	173	11803	4.519
121) Isopropylbenzene	(2)	12.018	105	61610	3.941
124)$4-Bromofluorobenzene	(2)	12.165	95	327551	51.024
125)$4-Bromofluorobenzene(mz174)	(2)	12.165	174	235520	49.855
126) 1,1,2,2-Tetrachloroethane	(3)	12.267	83	37579	3.892
127) Bromobenzene	(3)	12.282	156	18616	3.783
129) trans-1,4-Dichloro-2-Butene	(3)	12.297	53	130063	38.196
128) 1,2,3-Trichloropropane	(3)	12.311	110	7459	3.714
130) n-Propylbenzene	(3)	12.348	91	86751	4.069
131) 2-Chlorotoluene	(3)	12.421	126	16260	3.941
132) 1,3,5-Trimethylbenzene	(3)	12.480	105	50940	3.837
133) 4-Chlorotoluene	(3)	12.517	126	17291	3.937
134) tert-Butylbenzene	(3)	12.722	134	10767	3.910
135) Pentachloroethane	(3)	12.759	167	9981	3.604
137) 1,2,4-Trimethylbenzene	(3)	12.773	105	54122	3.938
138) sec-Butylbenzene	(3)	12.891	105	63901	3.973
139) 1,3-Dichlorobenzene	(3)	12.986	146	33707	4.014
140) p-Isopropyltoluene	(3)	13.001	119	50537	3.881
141)*1,4-Dichlorobenzene-d4	(3)	13.045	152	281179	50.000
142) 1,4-Dichlorobenzene	(3)	13.067	146	34166	3.934
143) 1,2,3-Trimethylbenzene	(3)	13.074	105	59233	4.042
144) Benzyl Chloride	(3)	13.147	91	38668	3.133
145) 1,3-Diethylbenzene	(3)	13.199	119	30700	3.781
146) 1,4-Diethylbenzene	(3)	13.272	119	32431	3.851
147) n-Butylbenzene	(3)	13.294	92	34291	3.831
148) 1,2-Dichlorobenzene	(3)	13.323	146	32055	3.955
149) 1,2-Diethylbenzene	(3)	13.345	119	26526	3.918
151) 1,2-Dibromo-3-Chloropropane	(3)	13.873	75	5874M	3.550
153) 1,3,5-Trichlorobenzene	(3)	13.991	180	21205	3.721

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

ASX73 0363

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
154) 1,2,4-Trichlorobenzene	(3)	14.423	180	18662	3.680
155) Hexachlorobutadiene	(3)	14.497	225	7953	3.623
156) Naphthalene	(3)	14.607	128	55826	3.634
157) 1,2,3-Trichlorobenzene	(3)	14.746	180	17826	3.665

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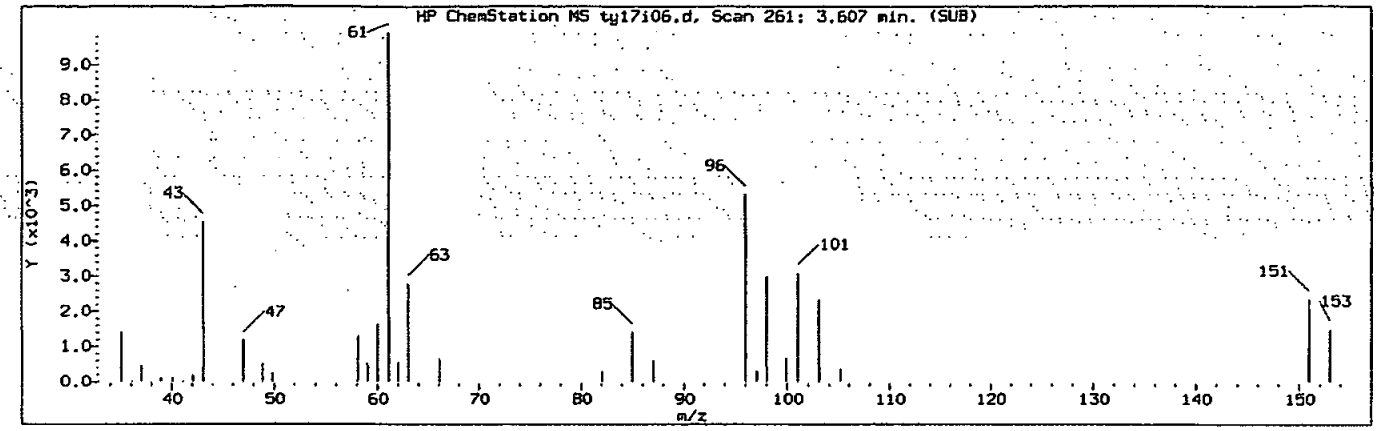
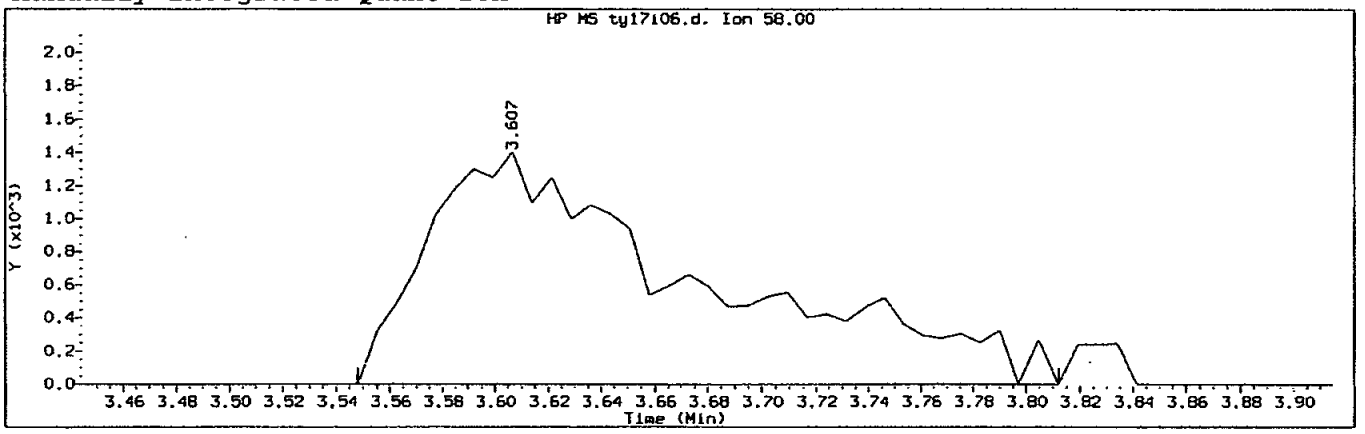
on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

ASX73 0364

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004 Lab Sample ID: VSTD004

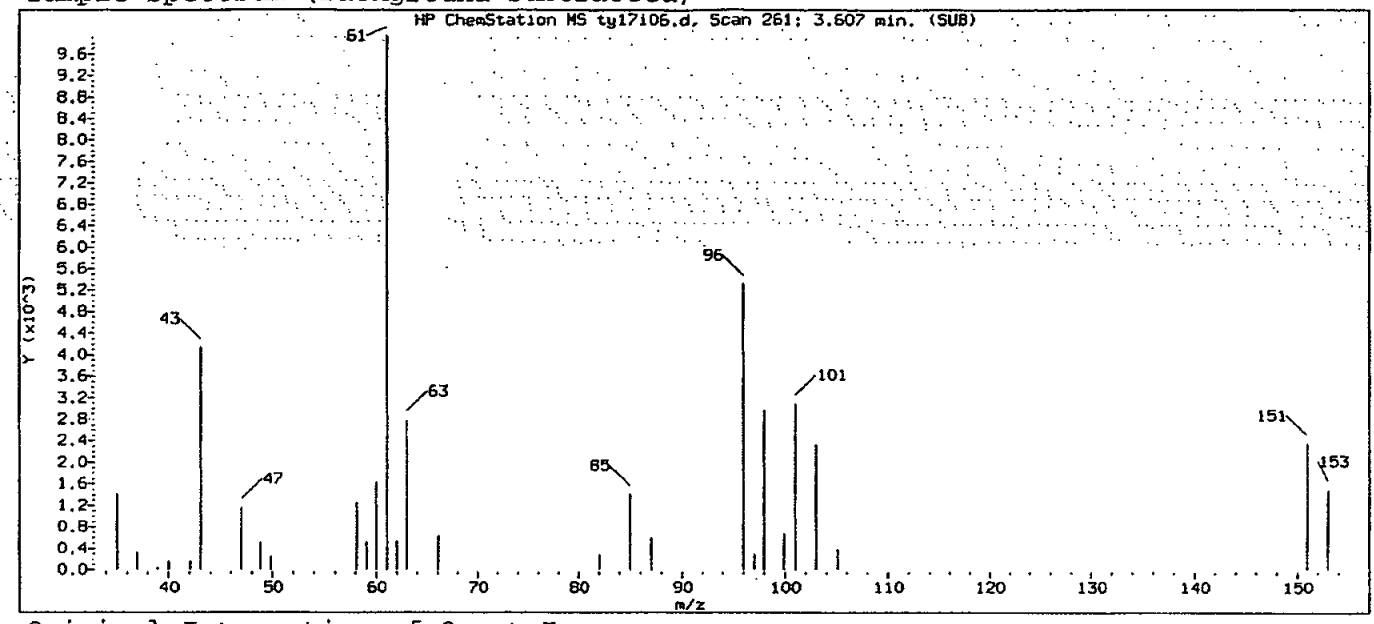
Compound Number	: 21		
Compound Name	: Acetone		
Scan Number	: 261		
Retention Time (minutes)	: 3.607		
Quant Ion	: 58.00		
Area (flag)	: 10017M		
On-Column Amount (ng)	: 8.1115		
Integration start scan	: 252	Integration stop scan:	288
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

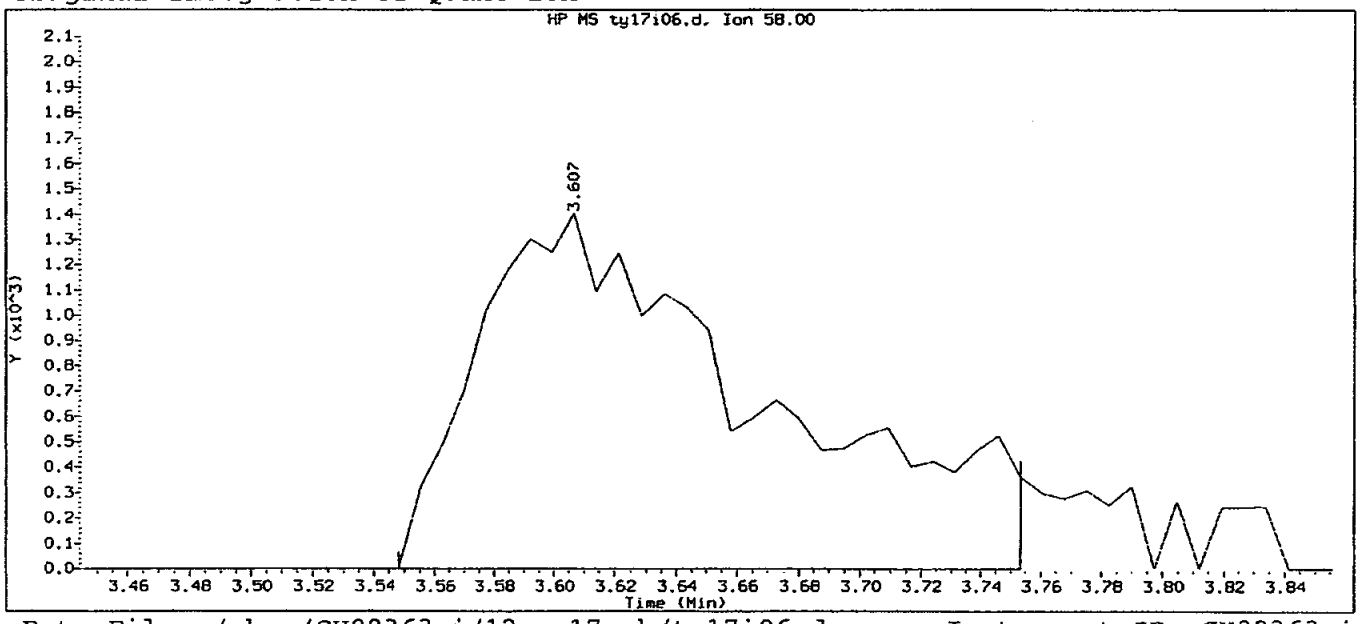
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 09:58. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: 5/24/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 21		
Compound Name	: Acetone		
Scan Number	: 261		
Retention Time (minutes)	: 3.607		
Quant Ion	: 58.00		
Area	: 9176		
On-column Amount (ng)	: 7.3087		
Integration start scan	: 252	Integration stop scan:	280
Y at integration start	: 0	Y at integration end:	0

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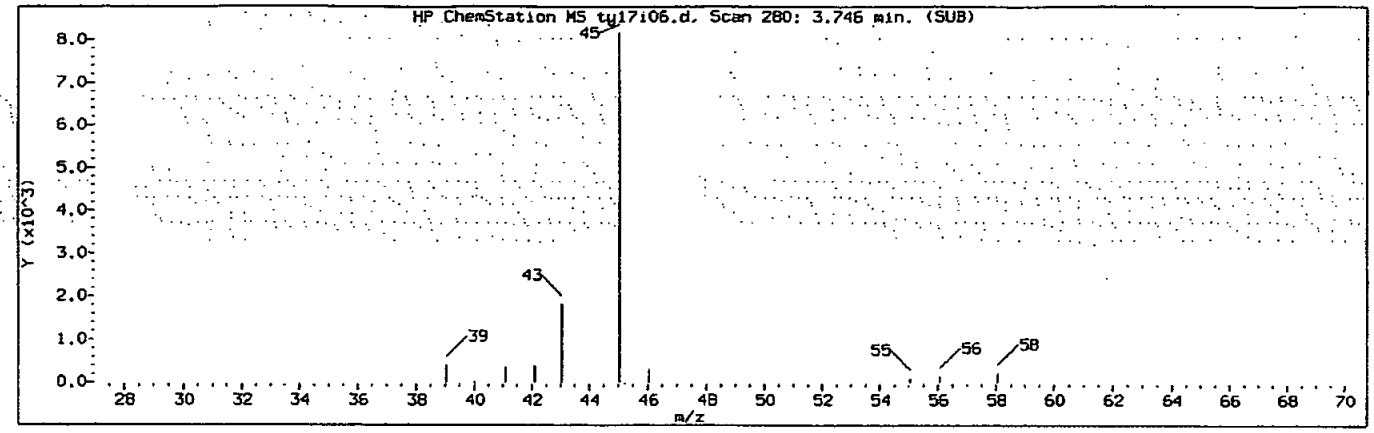
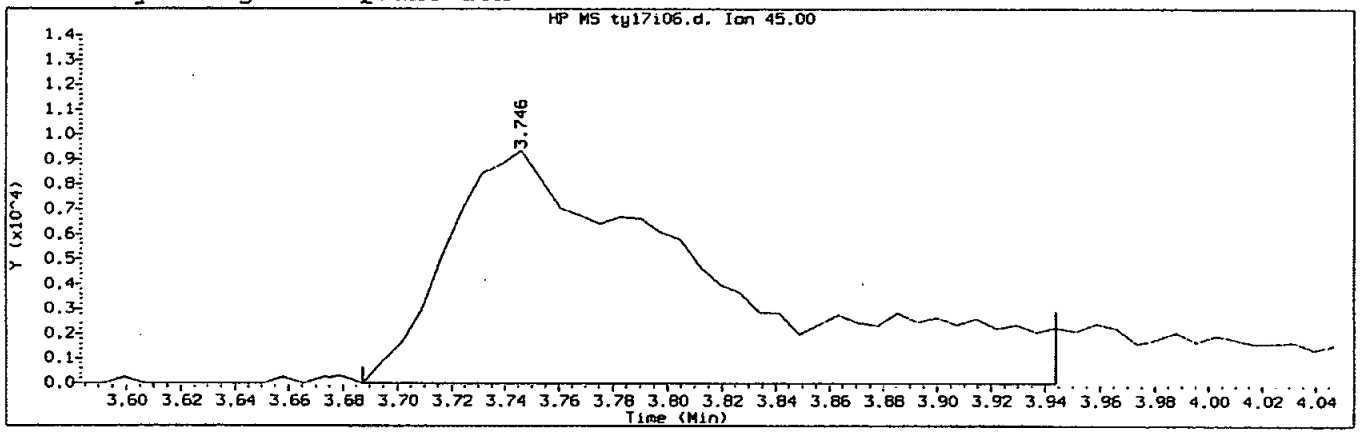
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004 Lab Sample ID: VSTD004

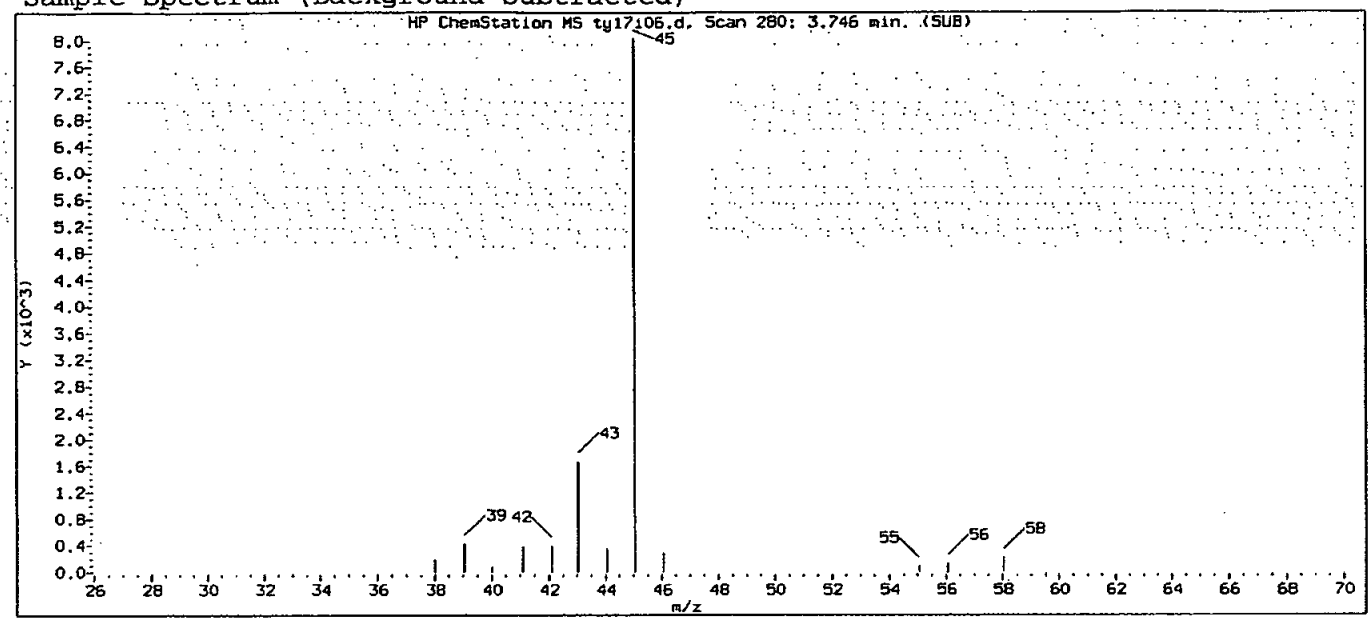
Compound Number : 23
Compound Name : 2-Propanol
Scan Number : 280
Retention Time (minutes): 3.746
Quant Ion : 45.00
Area (flag) : 65818M
On-Column Amount (ng) : 70.6038
Integration start scan : 271 Integration stop scan: 306
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

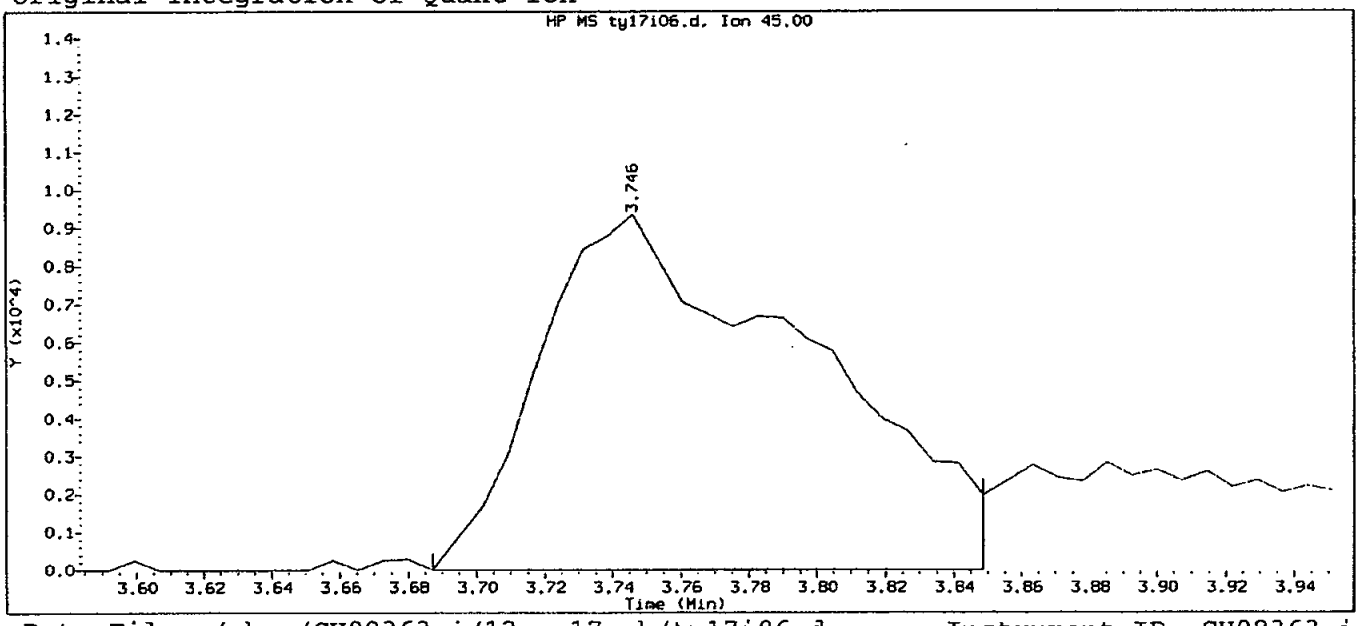
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 09:58. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

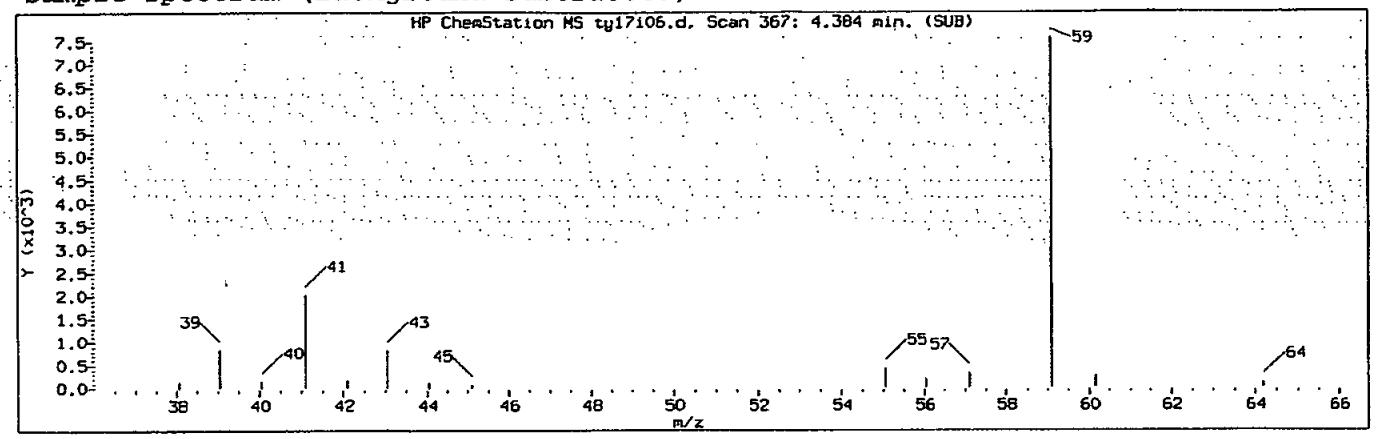
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD004 Lab Sample ID: VSTD004

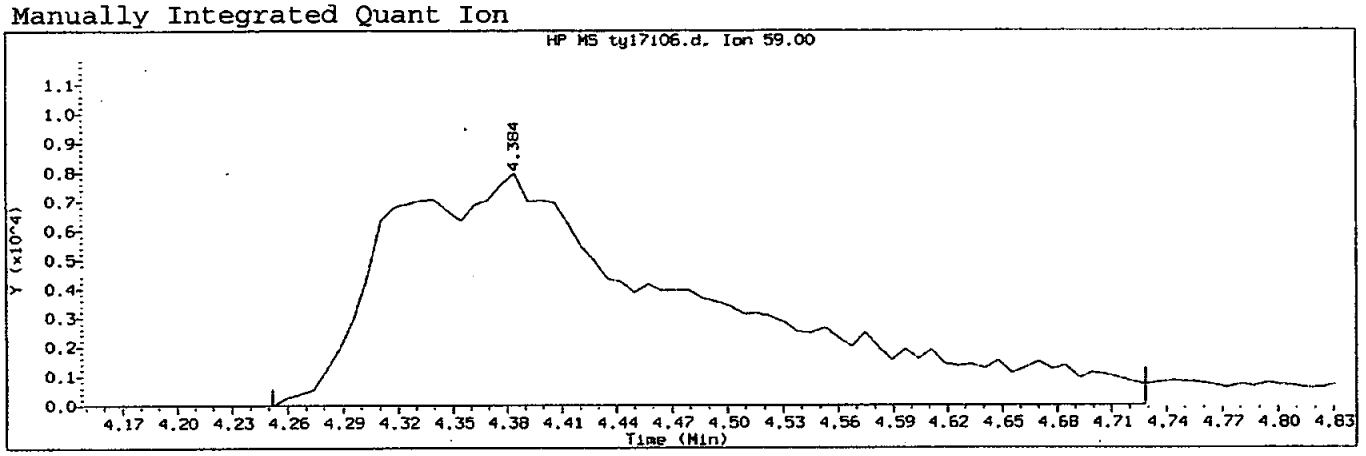
Compound Number	: 23		
Compound Name	: 2-Propanol		
Scan Number	: 280		
Retention Time (minutes)	: 3.746		
Quant Ion	: 45.00		
Area	: 51467		
On-column Amount (ng)	: 63.0055		
Integration start scan	: 271	Integration stop scan:	293
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Anita M. Dale on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004 Lab Sample ID: VSTD004

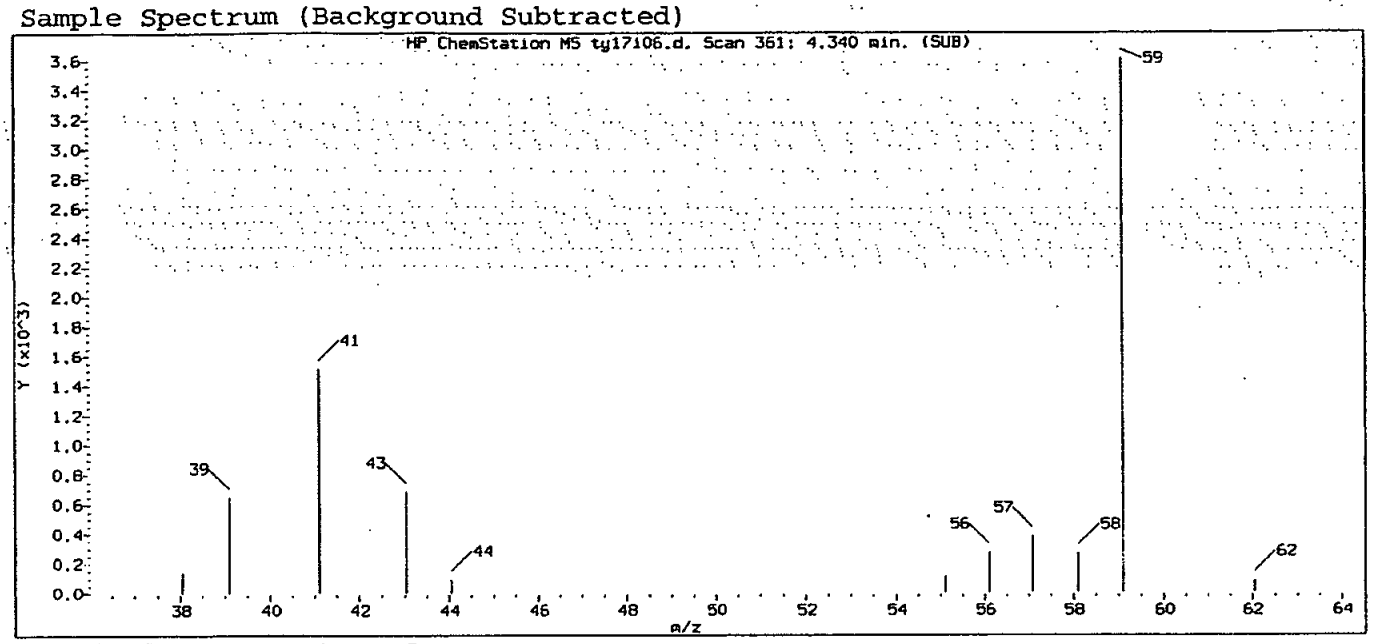
Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 367
Retention Time (minutes): 4.384
Quant Ion : 59.00
Area (flag) : 96633M
On-Column Amount (ng) : 82.9087
Integration start scan : 348 Integration stop scan: 413
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

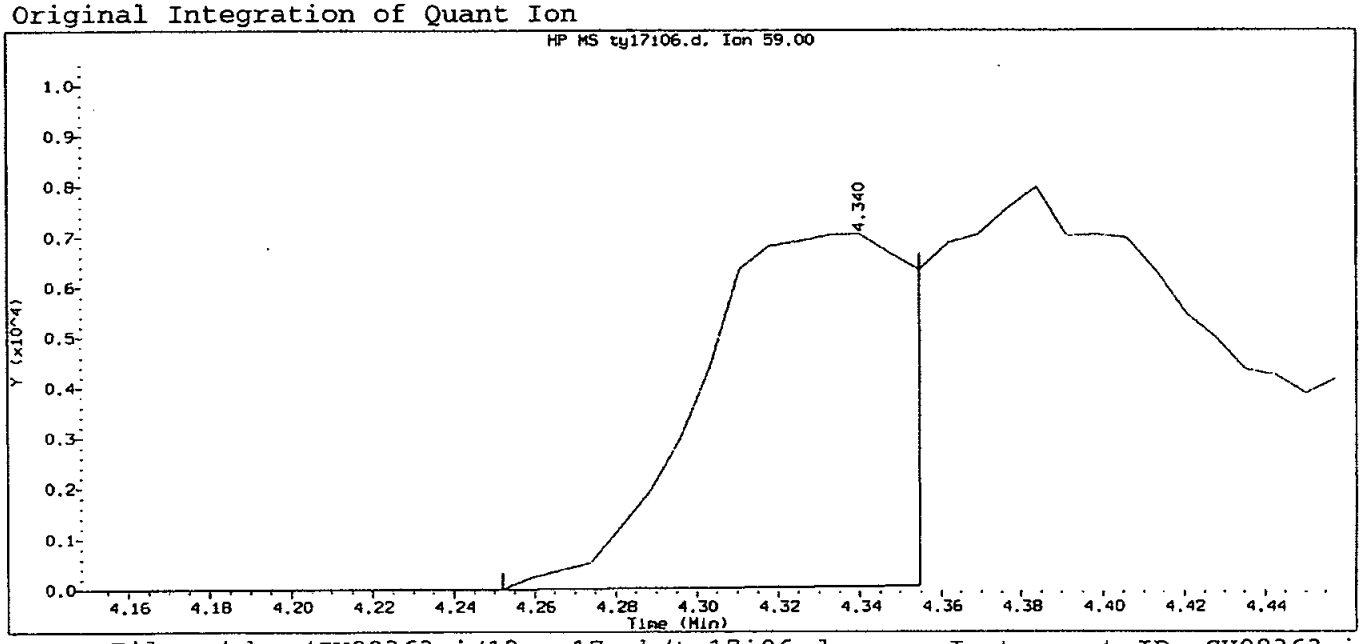
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 09:58. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

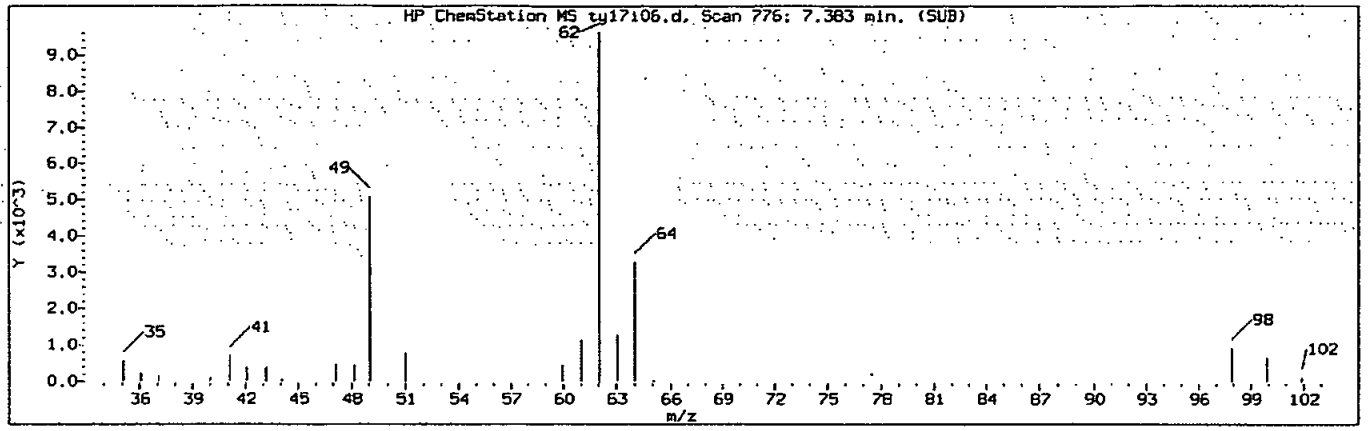
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD004 Lab Sample ID: VSTD004

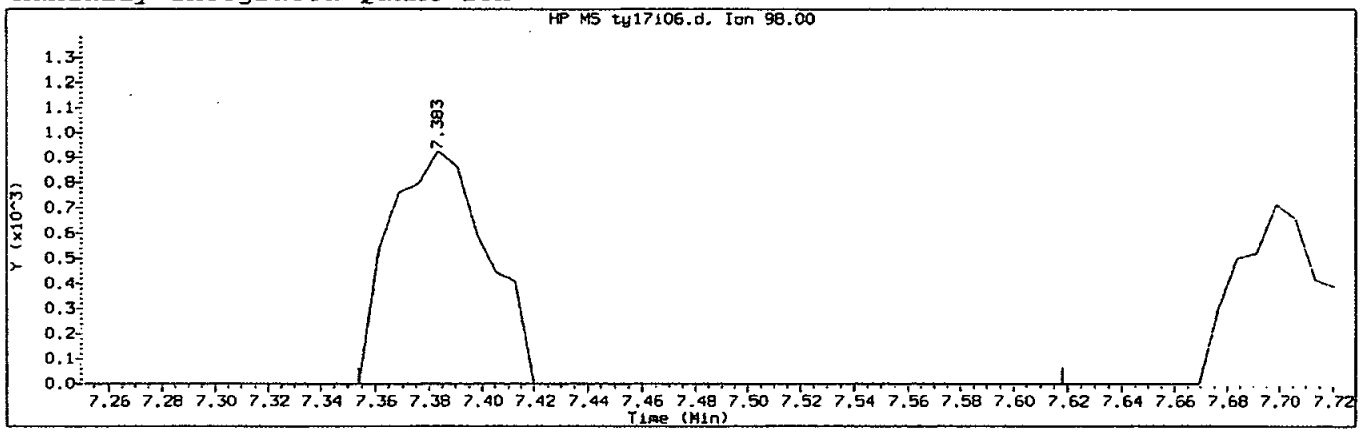
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 361		
Retention Time (minutes)	: 4.340		
Quant Ion	: 59.00		
Area	: 24322		
On-column Amount (ng)	: 28.0406		
Integration start scan	: 348	Integration stop scan:	362
Y at integration start	: 0	Y at integration end:	65

Digitally signed by Anita M. Dale on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 67		
Compound Name	: 1,2-Dichloroethane(mz98)		
Scan Number	: 776		
Retention Time (minutes)	: 7.383		
Quant Ion	: 98.00		
Area (flag)	: 2346A		
On-Column Amount (ng)	: 4.2571		
Integration start scan	: 771	Integration stop scan:	807
Y at integration start	: 0	Y at integration end:	0

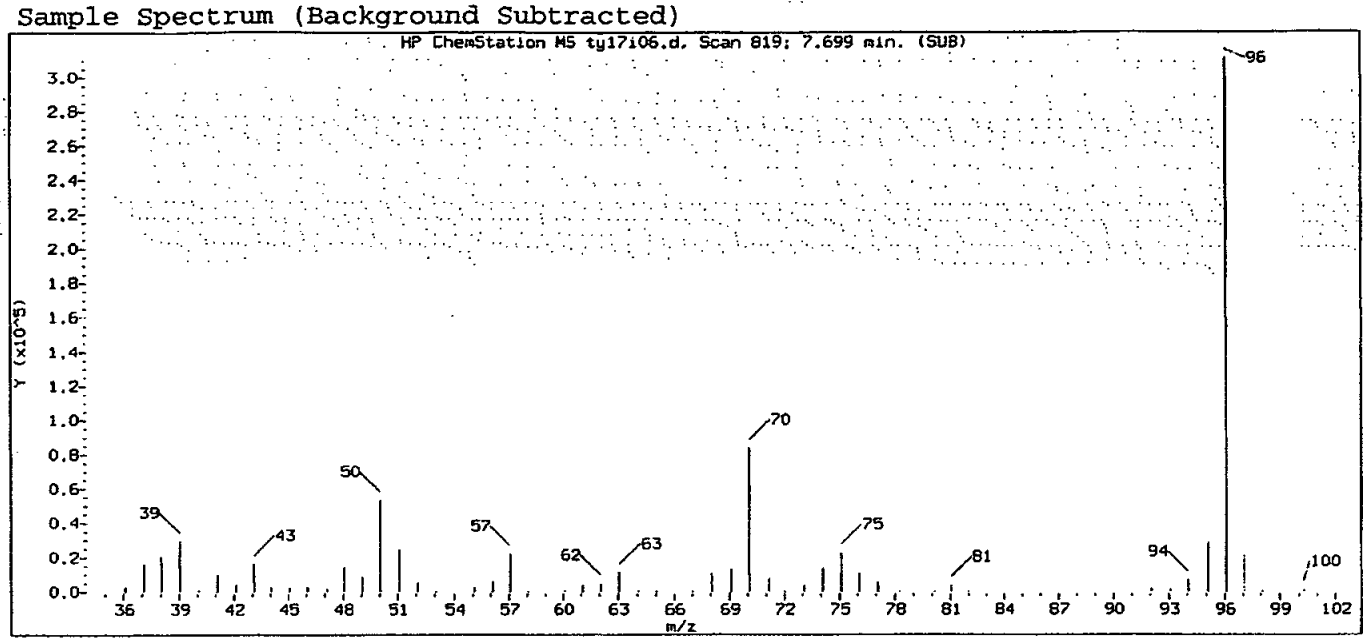
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 09:58. Target 3.5 esignature user ID: amd00492

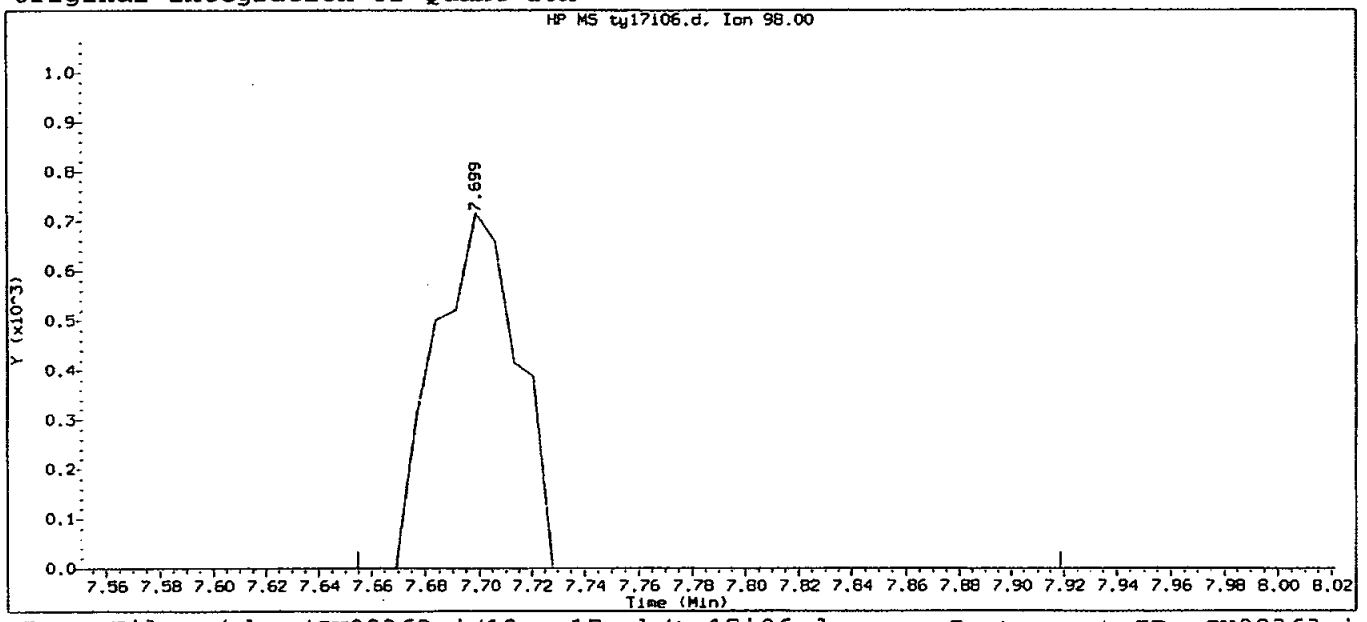
GC/MS audit/management approval: _____ 5/21/12

ASX73 0371

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

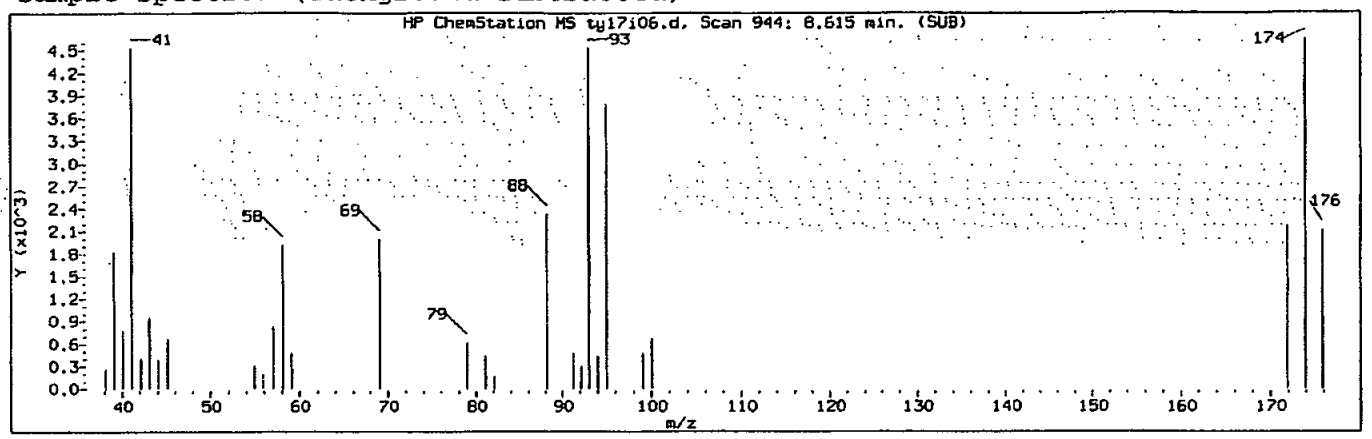
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD004 Lab Sample ID: VSTD004

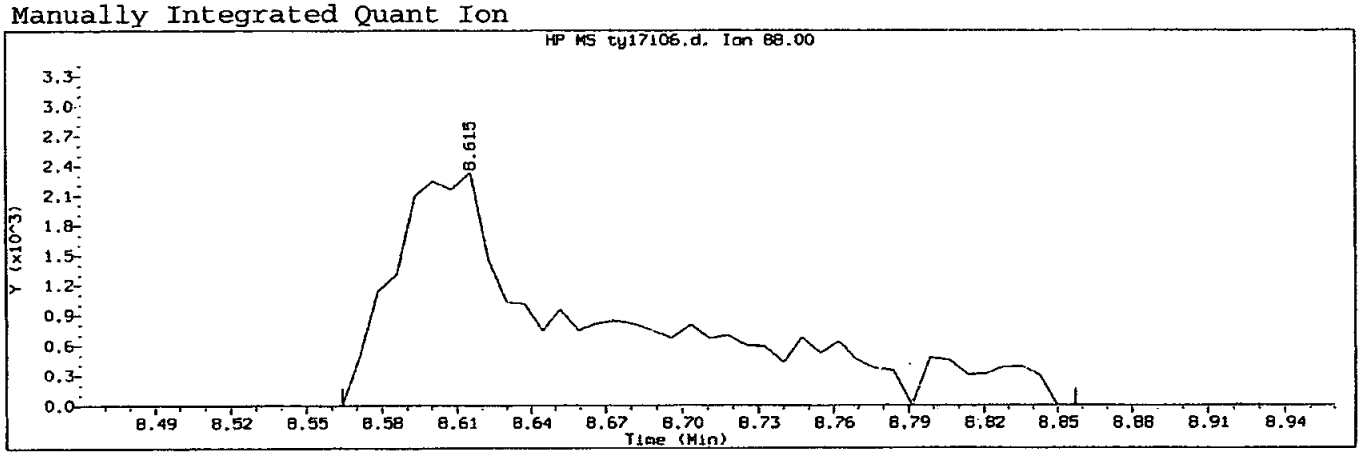
Compound Number : 67
Compound Name : 1,2-Dichloroethane(mz98)
Scan Number : 819
Retention Time (minutes): 7.699
Quant Ion : 98.00
Area : 1540
On-column Amount (ng) : 61.5142
Integration start scan : 812 Integration stop scan: 848
Y at integration start : 0 Y at integration end: 0

Digitally signed by Anita M. Dale on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 944		
Retention Time (minutes)	: 8.615		
Quant Ion	: 88.00		
Area (flag)	: 13643M		
On-Column Amount (ng)	: 199.8584		
Integration start scan	: 936	Integration stop scan:	976
Y at integration start	: 0	Y at integration end:	0

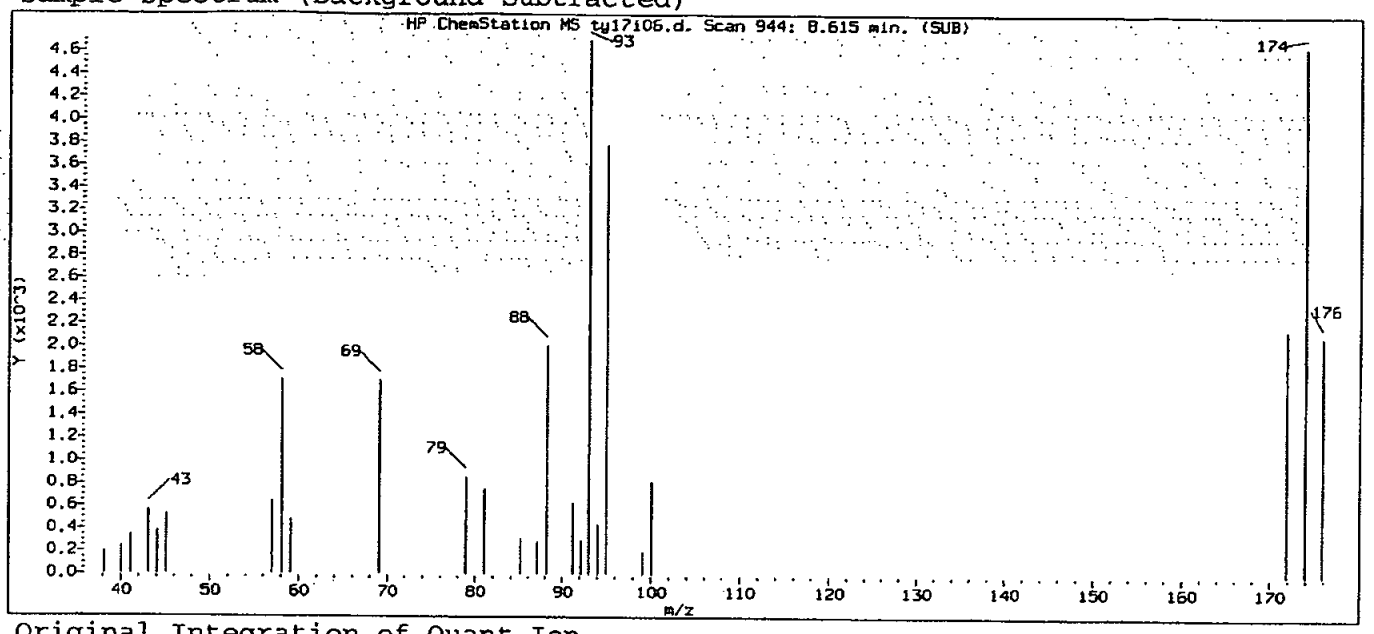
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 09:58. Target 3.5 esignature user ID: amd00492

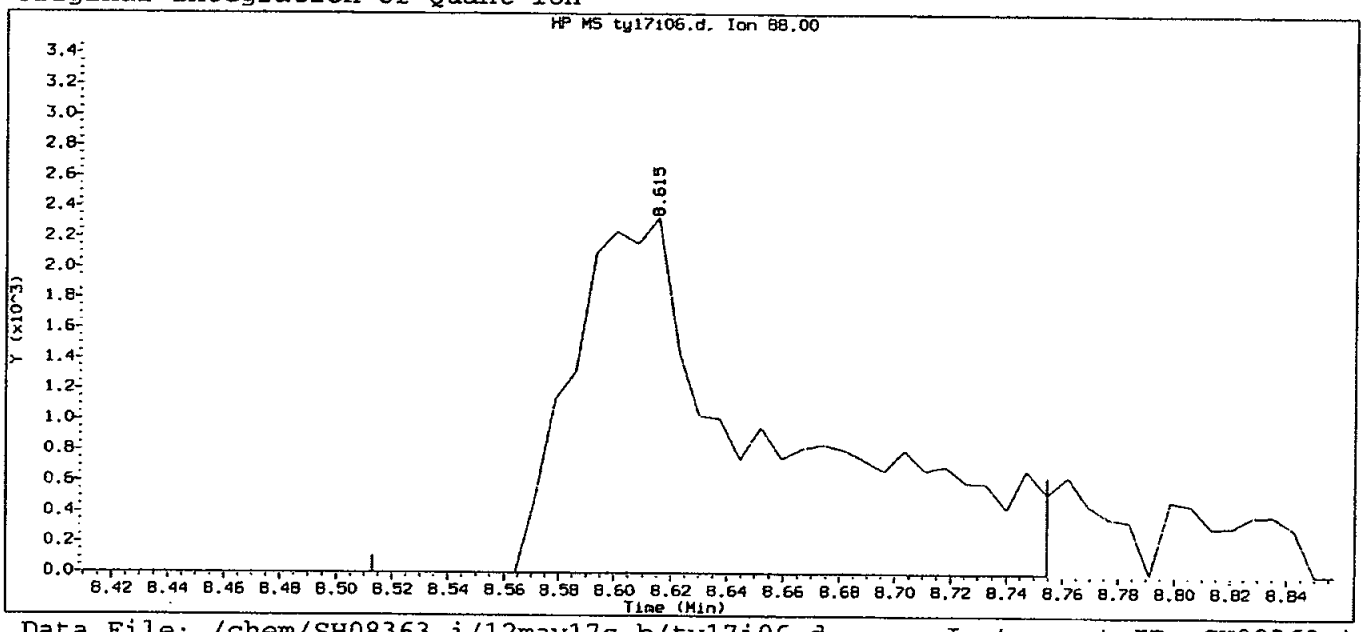
GC/MS audit/management approval: _____ 5/21/12

ASX73 0373

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

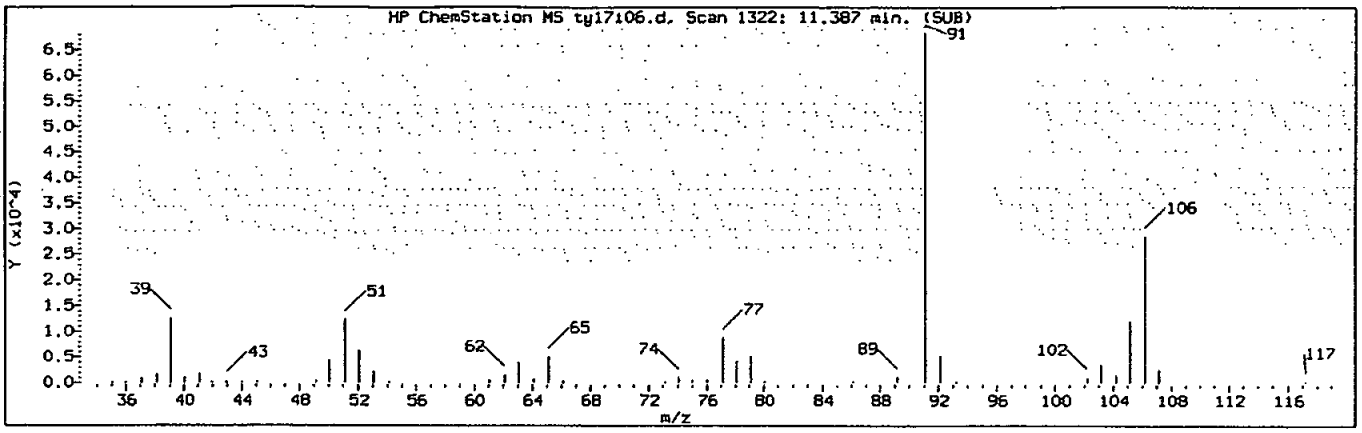
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD004 Lab Sample ID: VSTD004

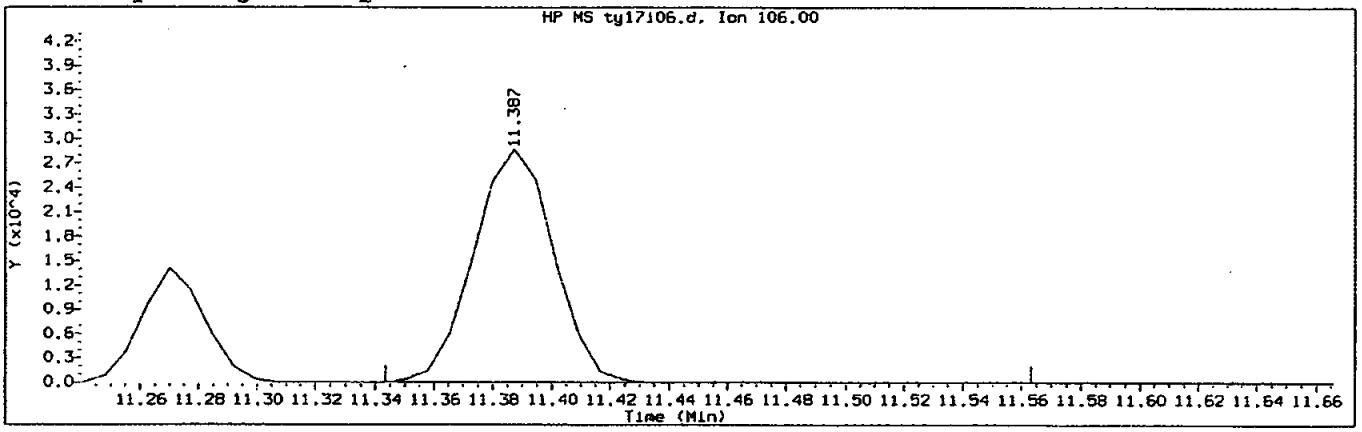
Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 944		
Retention Time (minutes)	: 8.615		
Quant Ion	: 88.00		
Area	: 11581		
On-column Amount (ng)	: 219.4645		
Integration start scan	: 929	Integration stop scan:	962
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Anita M. Dale on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004 Lab Sample ID: VSTD004

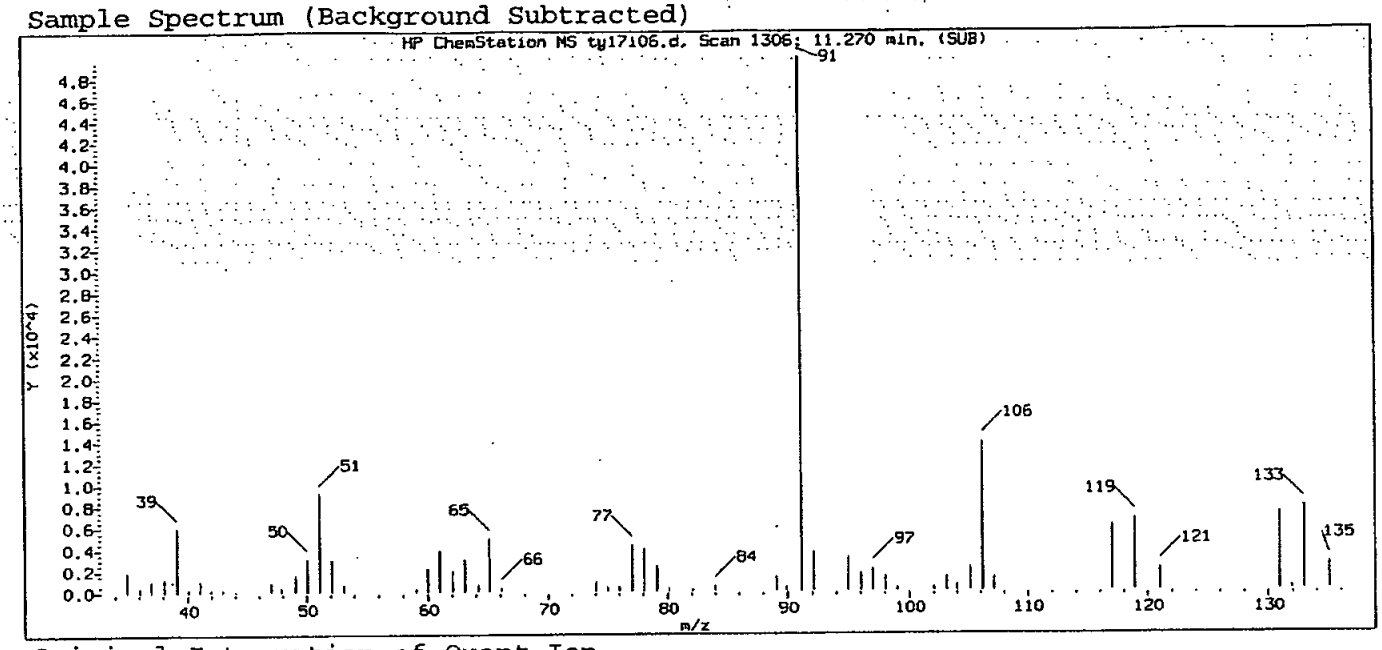
Compound Number	: 115
Compound Name	: m+p-Xylene
Scan Number	: 1322
Retention Time (minutes)	: 11.387
Quant Ion	: 106.00
Area (flag)	: 53982A
On-Column Amount (ng)	: 7.7246
Integration start scan	: 1315 Integration stop scan: 1345
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration: improper integration

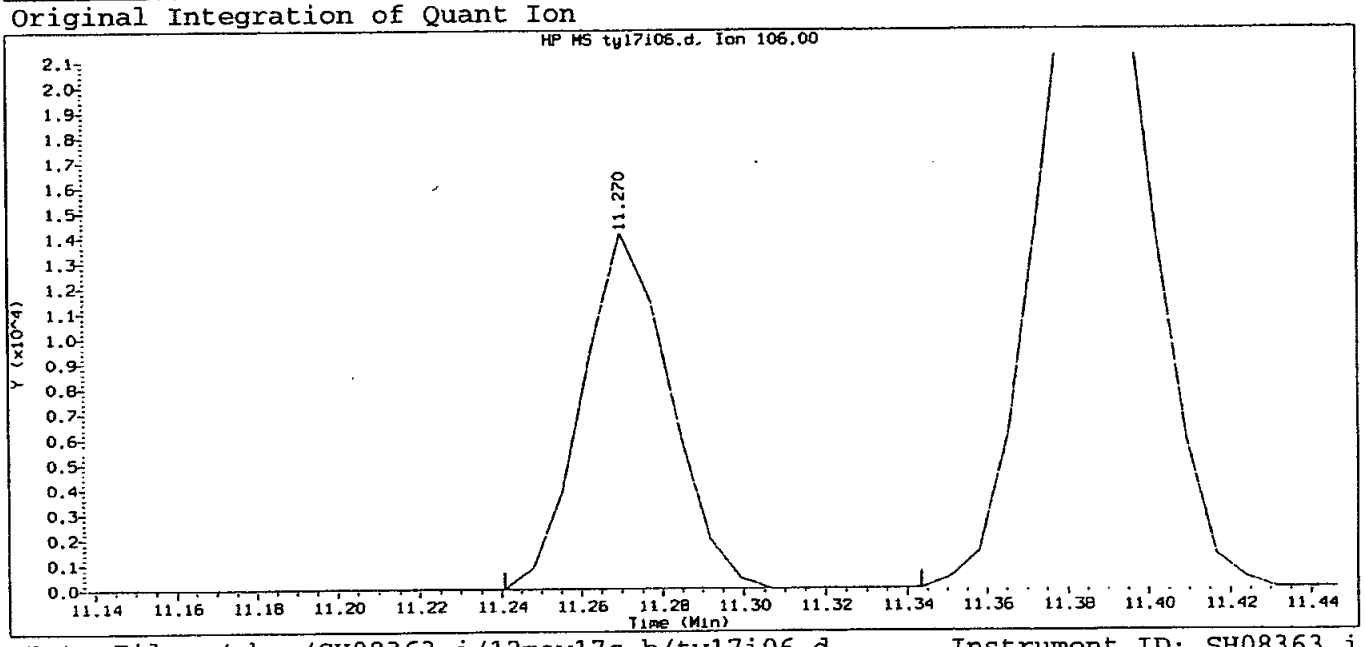
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 09:58. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

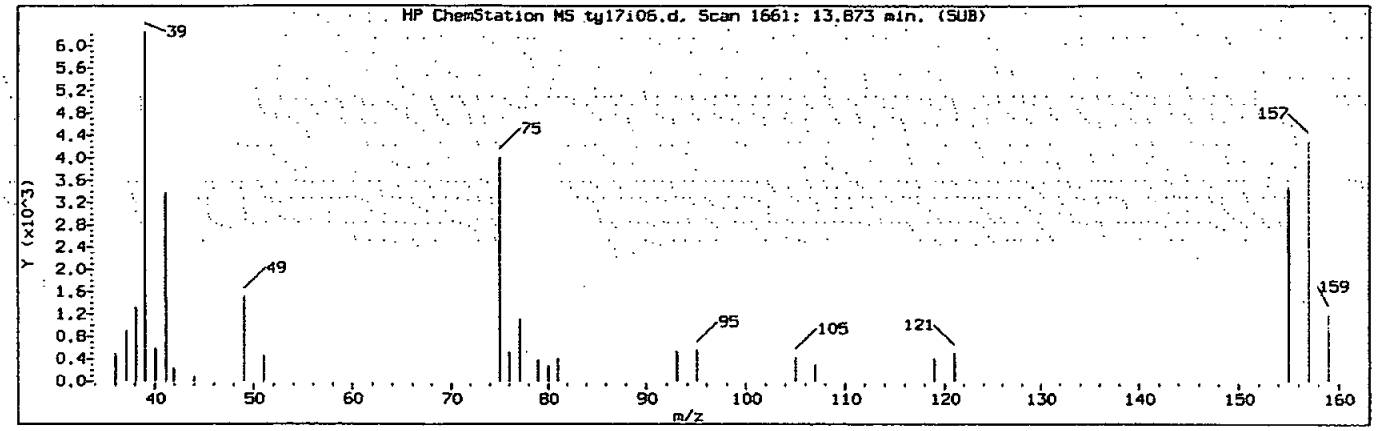
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD004 Lab Sample ID: VSTD004

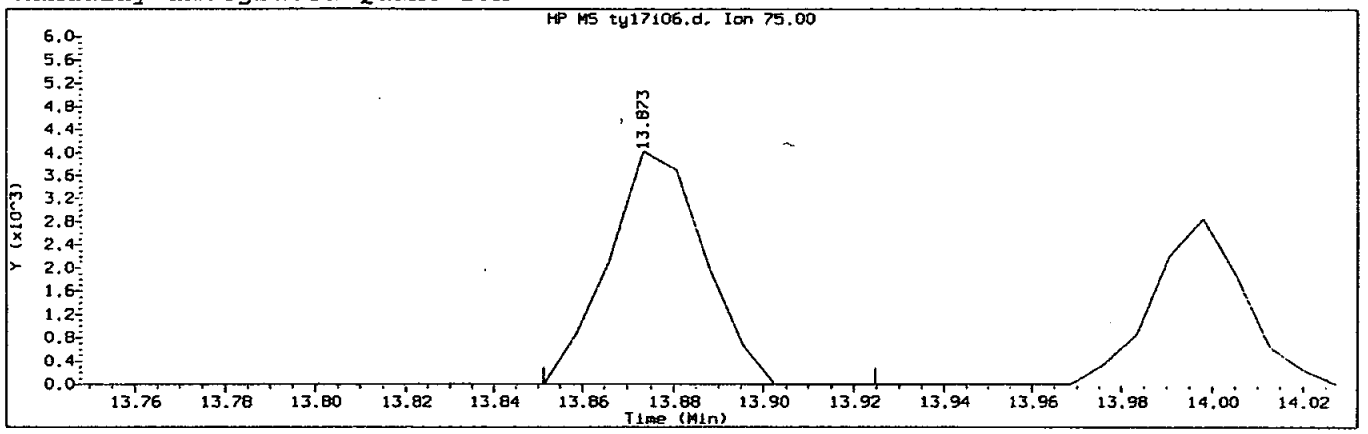
Compound Number	: 115		
Compound Name	: m+p-Xylene		
Scan Number	: 1306		
Retention Time (minutes)	: 11.270		
Quant Ion	: 106.00		
Area	: 21200		
On-column Amount (ng)	: 6.0015		
Integration start scan	: 1301	Integration stop scan:	1315
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Anita M. Dale on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 09:58 amd00492

Sample Name: VSTD004 Lab Sample ID: VSTD004

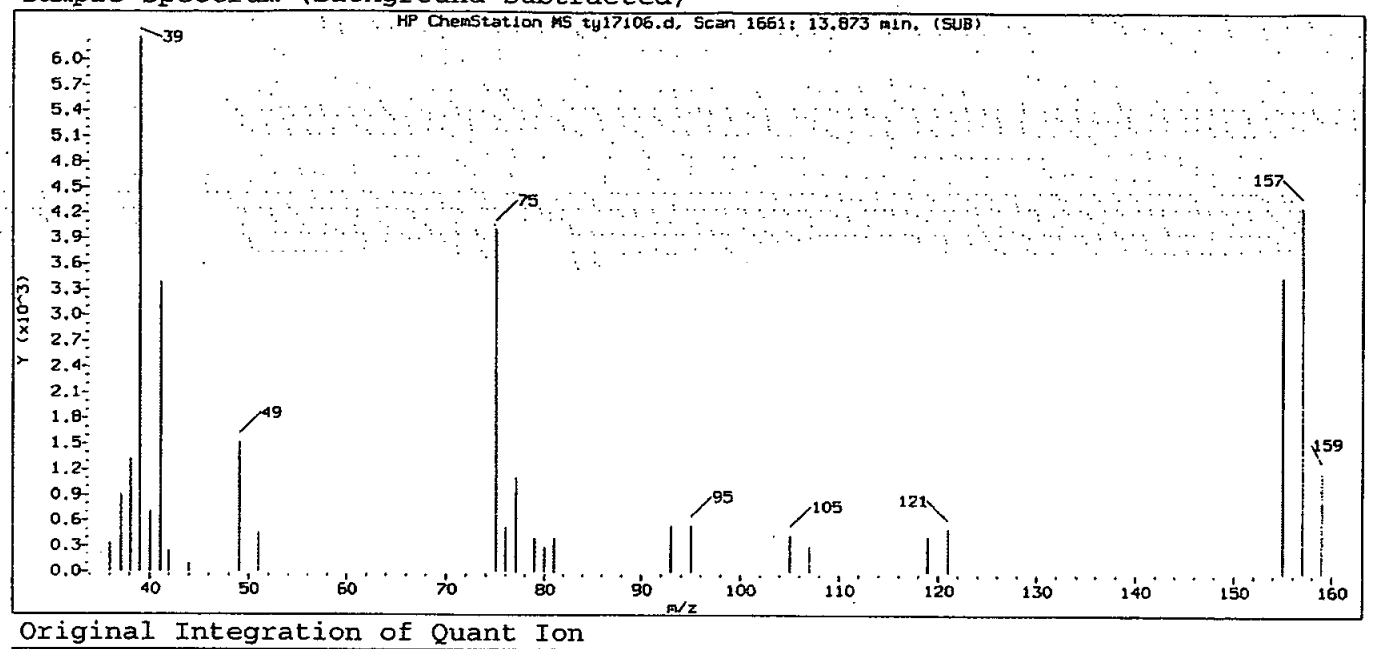
Compound Number : 151
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1661
Retention Time (minutes): 13.873
Quant Ion : 75.00
Area (flag) : 5874M
On-Column Amount (ng) : 3.5501
Integration start scan : 1657 Integration stop scan: 1667
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

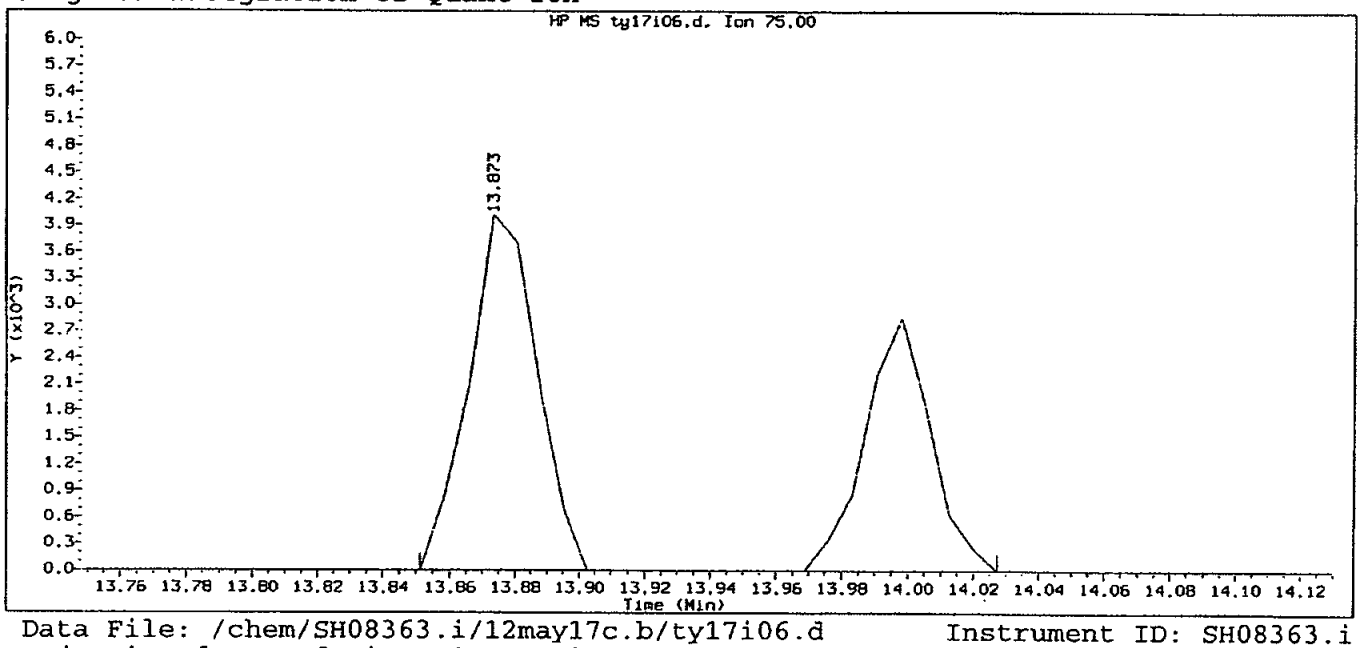
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 09:58. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



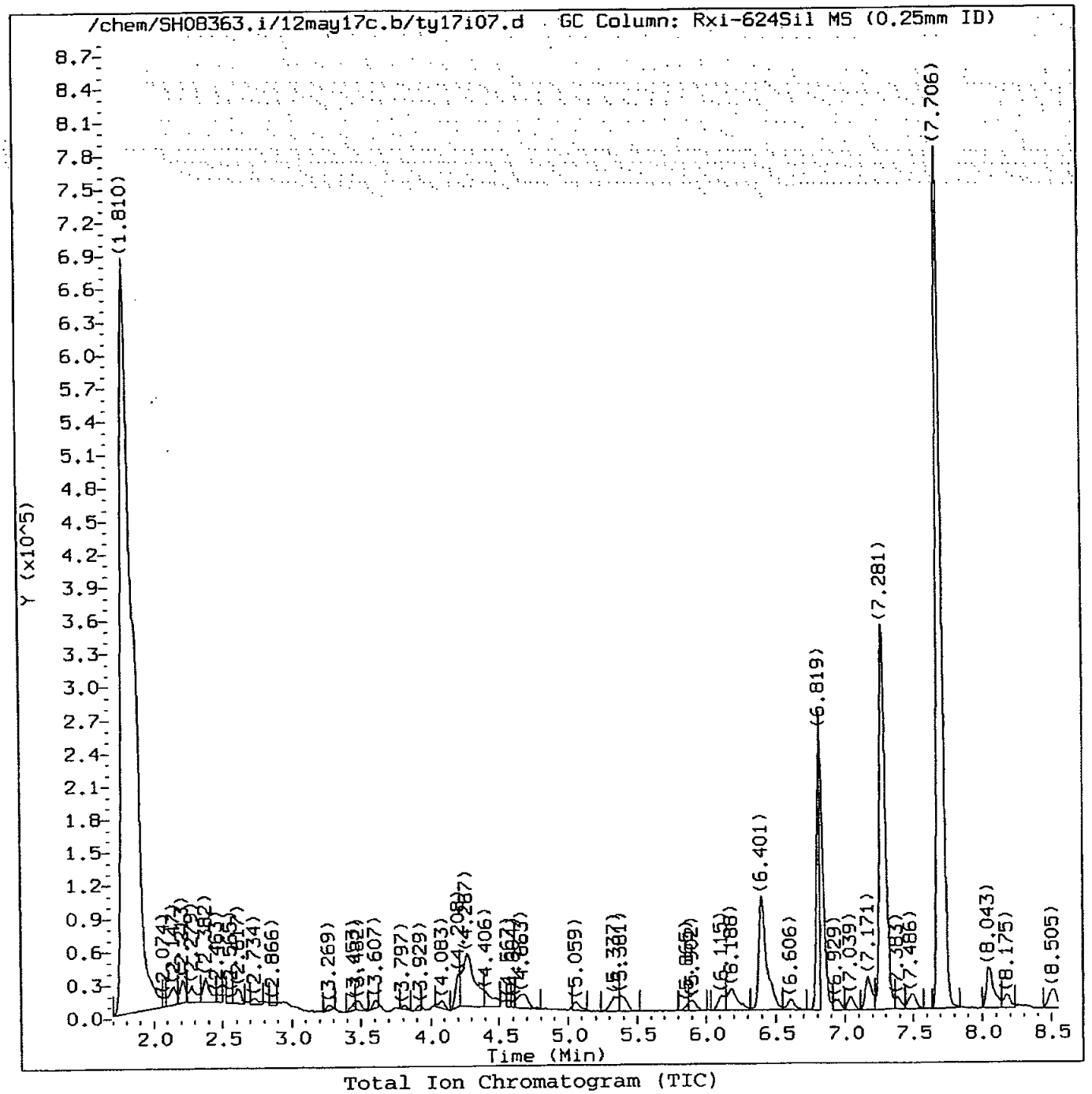
Data File: /chem/SH08363.i/12may17c.b/ty17i06.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:34 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 151
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1661
Retention Time (minutes): 13.873
Quant Ion : 75.00
Area : 9843
On-column Amount (ng) : 4.7460
Integration start scan : 1657 Integration stop scan: 1681
Y at integration start : 0 Y at integration end: 0

Digitally signed by Anita M. Dale on 05/21/2012 at 09:58.
Target 3.5 esignature user ID: amd00492



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i07.d
Injection date and time: 17-MAY-2012 15:58

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 21-MAY-2012 09:58

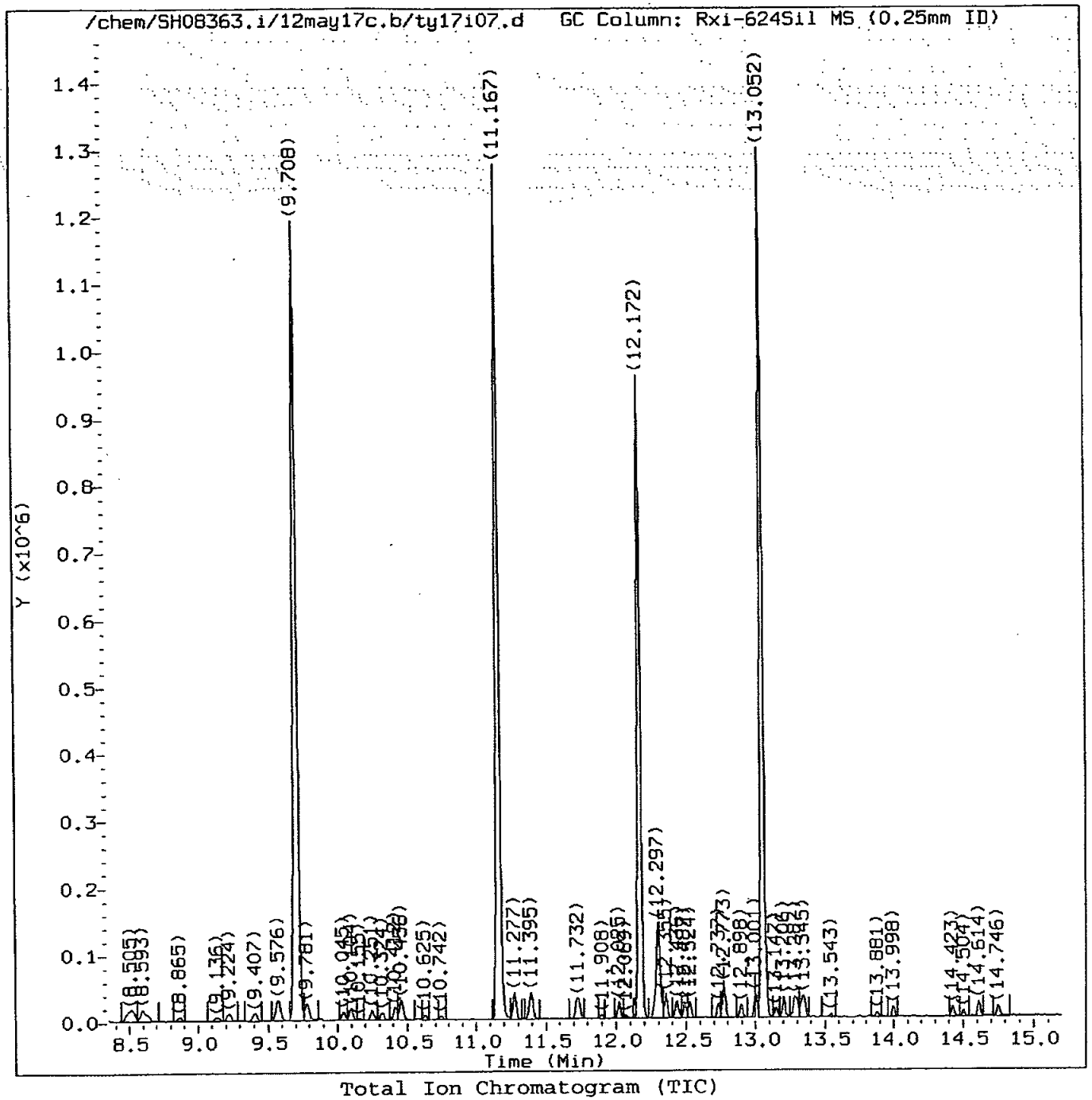
Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001

Lab Sample ID: VSTD001

Digitally signed by Anita M. Dale
on 05/21/2012 at 11:32.
Target 3.5 esignature user ID: amd00492



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i07.d
Injection date and time: 17-MAY-2012 15:58

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 21-MAY-2012 09:58

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001

Lab Sample ID: VSTD001

Digitally signed by Anita M. Dale
on 05/21/2012 at 11:32.
Target 3.5 esignature user ID: amd00492

ASX73 9390

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.015	85	7124	0.835
2) Chloromethane	(1)	2.147	50	13251	0.927
4) Vinyl Chloride	(1)	2.279	62	8029	0.883
7) Bromomethane	(1)	2.617	94	4925	0.922
8) Chloroethane	(1)	2.719	64	4415	0.909
13) Trichlorofluoromethane	(1)	3.027	101	4752	0.888
15) Ethyl Ether	(1)	3.269	59	5806	3.041
17) Acrolein	(4)	3.482	56	26853	8.712
21) Acetone	(1)	3.599	58	2199	1.825
18) 1,1-Dichloroethene	(1)	3.607	96	3385	0.891
19) Freon 113	(1)	3.621	101	3075	0.803
23) 2-Propanol	(4)	3.746	45	15517	16.774
22) Methyl Iodide	(1)	3.812	142	6148	0.803
24) Carbon Disulfide	(1)	3.922	76	12279	0.777
26) Methyl Acetate	(1)	4.017	43	20394	1.237
25) Allyl Chloride	(1)	4.091	41	15542	0.876
27) Methylene Chloride	(1)	4.267	84	7236	1.241
28)*t-Butyl Alcohol-d10	(4)	4.267	65	254085	250.000
29) t-Butyl Alcohol	(4)	4.391	59	21565	18.645
30) Acrylonitrile	(1)	4.589	53	5822	1.011
31) Methyl Tertiary Butyl Ether	(1)	4.663	73	13800	0.916
32) trans-1,2-Dichloroethene	(1)	4.670	96	3750	0.833
34) n-Hexane	(1)	5.066	57	6367	0.780
36) 1,1-Dichloroethane	(1)	5.323	63	9595	0.889
41) 1,2-Dichloroethene (total)	(1)		96	8136	1.702
37) di-Isopropyl Ether	(1)	5.359	45	31384	0.899
40) 2-Chloro-1,3-Butadiene	(1)	5.396	53	7900	0.780
42) Ethyl t-Butyl Ether	(1)	5.887	59	17078	0.855
45) 2-Butanone	(1)	6.100	43	21941	1.988
44) cis-1,2-Dichloroethene	(1)	6.129	96	4386	0.869
43) 2,2-Dichloropropane	(1)	6.159	77	4405	0.797
46) Propionitrile	(4)	6.188	54	43338	19.496
47) Methacrylonitrile	(1)	6.401	67	37251	8.999
49) Bromochloromethane	(1)	6.474	128	1977	0.735
50) Tetrahydrofuran	(4)	6.474	71	2717	1.803
52) Chloroform	(1)	6.606	83	9166	1.016
54)$Dibromofluoromethane	(1)	6.819	113	239144	49.148
53)$Dibromofluoromethane(mz111)	(1)	6.819	111	245507	49.644

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: amd00492

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	6.855	97	4209	0.839
57) Cyclohexane(mz84)	(1)	6.929	84	4584	0.782
58) Cyclohexane	(1)	6.936	56	7549M	0.708
56) Cyclohexane(mz69)	(1)	6.943	69	1842	0.728
60) Carbon Tetrachloride	(1)	7.039	117	2914	0.743
59) 1,1-Dichloropropene	(1)	7.039	75	5225	0.782
61) Isobutyl Alcohol	(4)	7.171	41	39259	51.907
64)$1,2-Dichloroethane-d4(mz65)	(1)	7.281	65	305171	50.512
63)$1,2-Dichloroethane-d4(mz104)	(1)	7.281	104	37653	50.058
62)$1,2-Dichloroethane-d4	(1)	7.281	102	59237	50.196
65) Benzene	(1)	7.310	78	17878	0.908
66) 1,2-Dichloroethane	(1)	7.383	62	7184	0.947
67) 1,2-Dichloroethane(mz98)	(1)	7.383	98	138M	0.925
68) t-Amyl Methyl Ether	(1)	7.486	73	13328	0.879
69) n-Heptane	(1)	7.706	43	10807	0.840
70)*Fluorobenzene	(1)	7.706	96	854402	50.000
73) n-Butanol	(4)	8.043	56	36954	83.855
74) Trichloroethene	(1)	8.183	95	3911	0.858
76) Methylcyclohexane	(1)	8.498	83	5767	0.835
79) 1,2-Dichloropropane	(1)	8.520	63	5624	0.867
81) Methyl Methacrylate	(1)	8.593	69	5103	0.868
82) 1,4-Dioxane	(4)	8.601	88	2586	38.175
80) Dibromomethane	(1)	8.630	93	3531	0.875
83) Bromodichloromethane	(1)	8.865	83	4990	0.814
84) 2-Nitropropane	(1)	9.136	41	5532	1.629
85) 2-Chloroethyl Vinyl Ether	(1)	9.224	63	4288	0.745
87) cis-1,3-Dichloropropene	(1)	9.407	75	5938	0.733
88) 4-Methyl-2-Pentanone	(1)	9.576	58	9731	1.624
90)$Toluene-d8	(2)	9.708	98	773036	50.394
91)$Toluene-d8(mz100)	(2)	9.708	100	515534	49.753
93) Toluene	(2)	9.781	92	9328	0.877
96) trans-1,3-Dichloropropene	(2)	10.045	75	5477	0.734
97) Ethyl Methacrylate	(2)	10.097	69	7315	0.781
98) 1,1,2-Trichloroethane	(2)	10.251	97	4168	0.888
99) Tetrachloroethene	(2)	10.317	166	3281	0.779
100) 1,3-Dichloropropane	(2)	10.412	76	8268	0.897
101) 2-Hexanone	(2)	10.456	58	10485	1.528
103) Dibromochloromethane	(2)	10.625	129	3152	1.721

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Target 3.5 esignature user ID: amd00492

ASX73 9382

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
104) 1,2-Dibromoethane	(2)	10.742	107	4301	0.797
107)*Chlorobenzene-d5	(2)	11.167	117	561827	50.000
108) Chlorobenzene	(2)	11.197	112	9667	0.870
114) Ethylbenzene	(2)	11.270	106	4813M	0.865
111) 1,1,1,2-Tetrachloroethane	(2)	11.270	131	2822	0.801
116) Xylene (Total)	(2)		106	16166	2.363
115) m+p-Xylene	(2)	11.387	106	11184M	1.619
117) o-Xylene	(2)	11.725	106	4982	0.744
119) Styrene	(2)	11.739	104	8226	0.704
120) Bromoform	(2)	11.901	173	2456	2.386
121) Isopropylbenzene	(2)	12.025	105	11946	0.773
124)$4-Bromofluorobenzene	(2)	12.172	95	316601	49.888
125)$4-Bromofluorobenzene(mz174)	(2)	12.172	174	227493	48.712
126) 1,1,2,2-Tetrachloroethane	(3)	12.267	83	8588	0.922
127) Bromobenzene	(3)	12.282	156	3982	0.839
129) trans-1,4-Dichloro-2-Butene	(3)	12.297	53	29278	8.911
128) 1,2,3-Trichloropropane	(3)	12.319	110	1966	1.015
130) n-Propylbenzene	(3)	12.355	91	22392	1.088
131) 2-Chlorotoluene	(3)	12.429	126	3285	0.825
132) 1,3,5-Trimethylbenzene	(3)	12.487	105	10254	0.800
133) 4-Chlorotoluene	(3)	12.524	126	3237	0.764
134) tert-Butylbenzene	(3)	12.729	134	1943	0.731
135) Pentachloroethane	(3)	12.766	167	1976	0.739
137) 1,2,4-Trimethylbenzene	(3)	12.773	105	17258	1.301
138) sec-Butylbenzene	(3)	12.898	105	12598	0.812
139) 1,3-Dichlorobenzene	(3)	12.993	146	6636	0.819
140) p-Isopropyltoluene	(3)	13.008	119	10929	0.870
141)*1,4-Dichlorobenzene-d4	(3)	13.052	152	271313	50.000
142) 1,4-Dichlorobenzene	(3)	13.074	146	7714	0.920
143) 1,2,3-Trimethylbenzene	(3)	13.081	105	14413M	1.019
144) Benzyl Chloride	(3)	13.155	91	7888	0.662
145) 1,3-Diethylbenzene	(3)	13.206	119	7401	0.945
146) 1,4-Diethylbenzene	(3)	13.279	119	7139	0.879
147) n-Butylbenzene	(3)	13.301	92	7399	0.857
148) 1,2-Dichlorobenzene	(3)	13.331	146	7027	0.898
149) 1,2-Diethylbenzene	(3)	13.345	119	5918	0.906
151) 1,2-Dibromo-3-Chloropropane	(3)	13.881	75	1351M	0.846
153) 1,3,5-Trichlorobenzene	(3)	13.998	180	4332	0.788

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on 05/21/2012 at 11:32.
Target 3.5 esignature user ID: amd00492

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
154) 1,2,4-Trichlorobenzene	(3)	14.423	180	4863	0.994
155) Hexachlorobutadiene	(3)	14.497	225	2246	1.061
156) Naphthalene	(3)	14.614	128	14824	1.000
157) 1,2,3-Trichlorobenzene	(3)	14.746	180	4708	1.003

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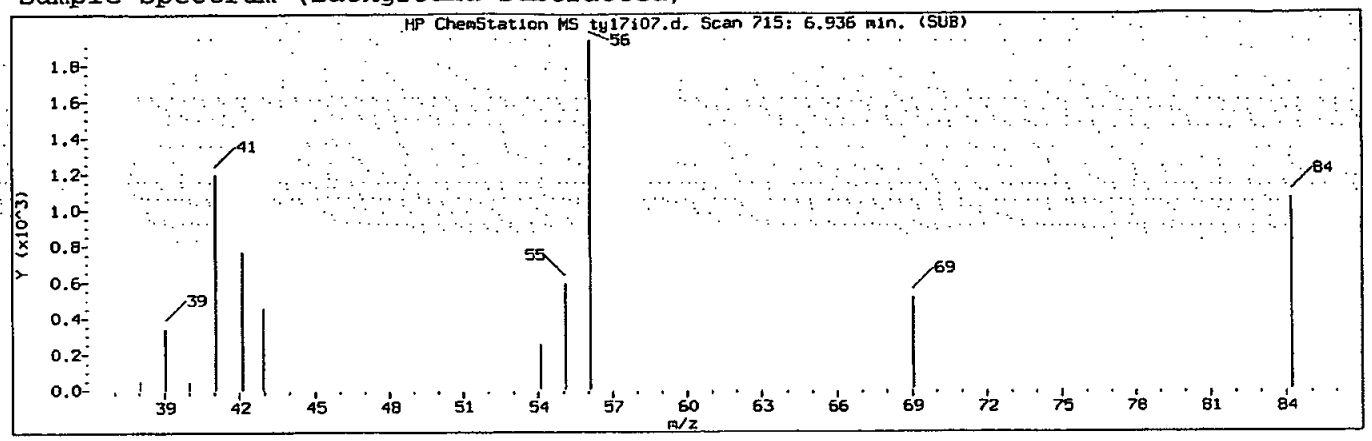
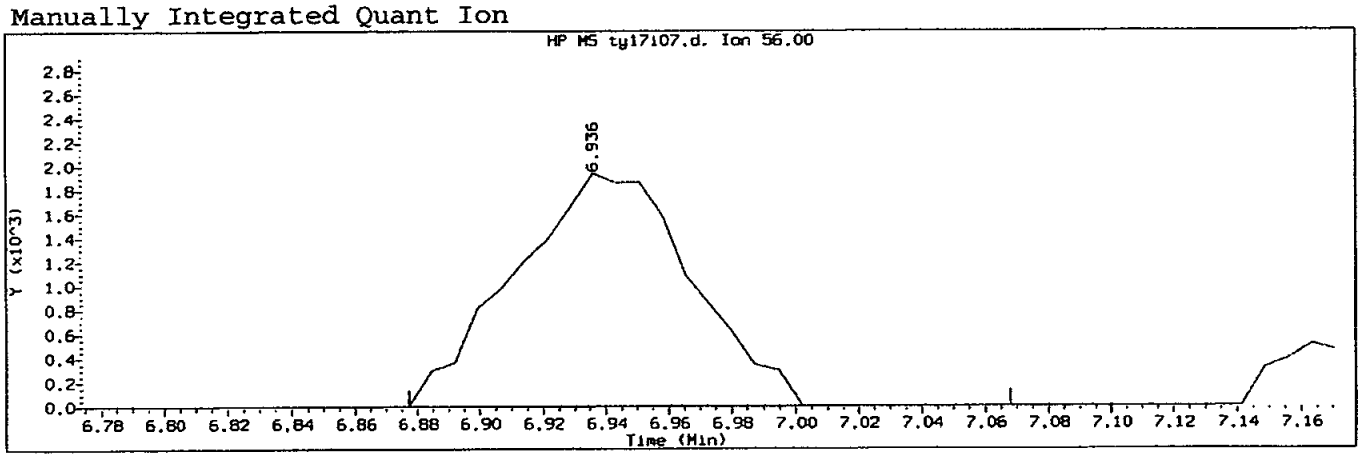
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001 Lab Sample ID: VSTD001

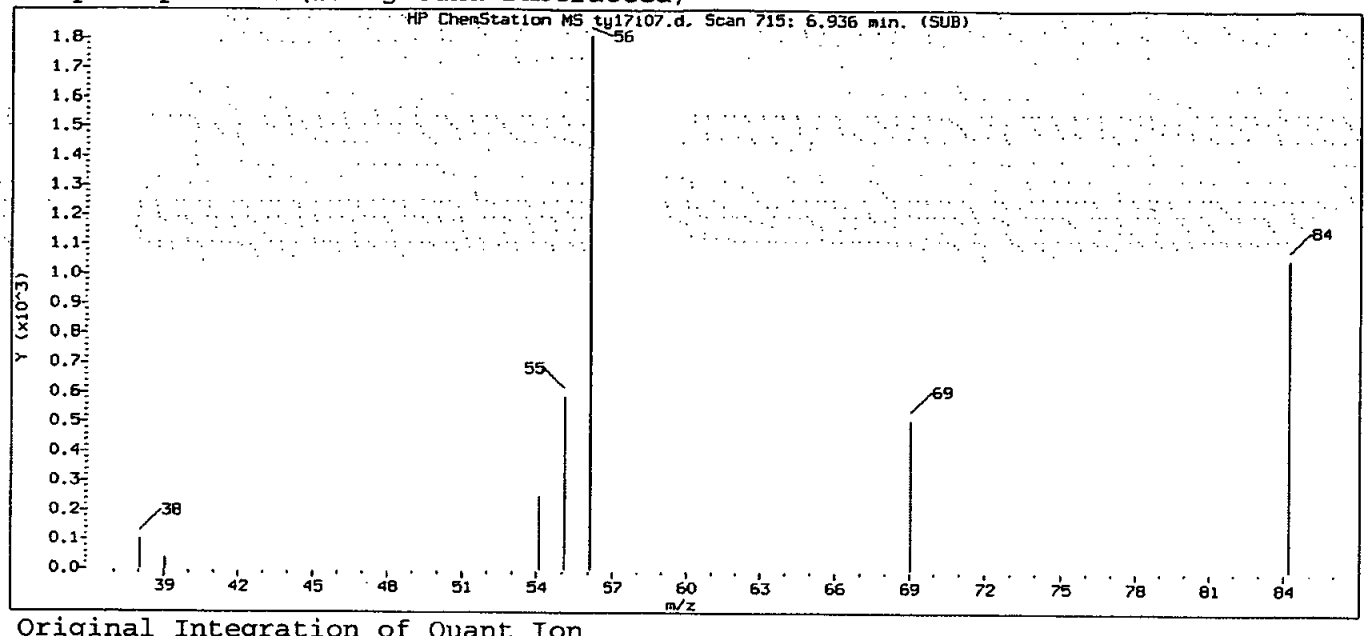
Compound Number	: 58		
Compound Name	: Cyclohexane		
Scan Number	: 715		
Retention Time (minutes)	: 6.936		
Quant Ion	: 56.00		
Area (flag)	: 7549M		
On-Column Amount (ng)	: 0.7084		
Integration start scan	: 706	Integration stop scan:	732
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

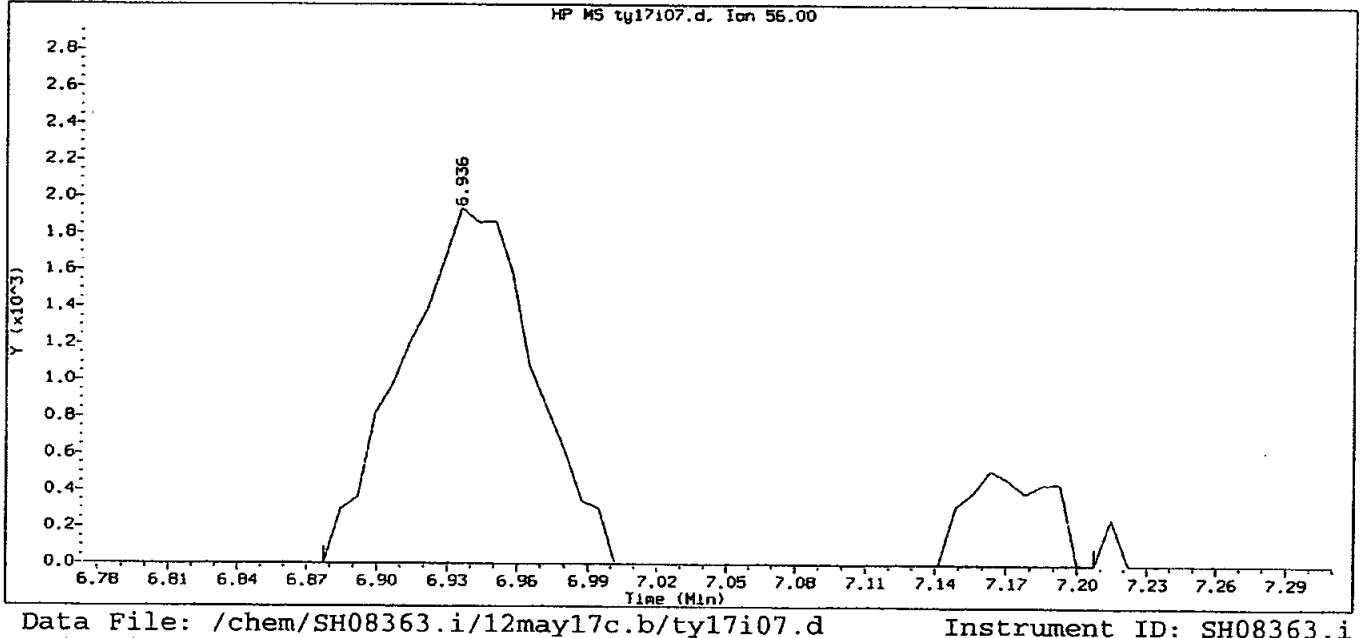
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 11:32. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 58		
Compound Name	: Cyclohexane		
Scan Number	: 715		
Retention Time (minutes)	: 6.936		
Quant Ion	: 56.00		
Area	: 8848		
On-column Amount (ng)	: 0.8367		
Integration start scan	: 706	Integration stop scan:	751
Y at integration start	: 0	Y at integration end:	0

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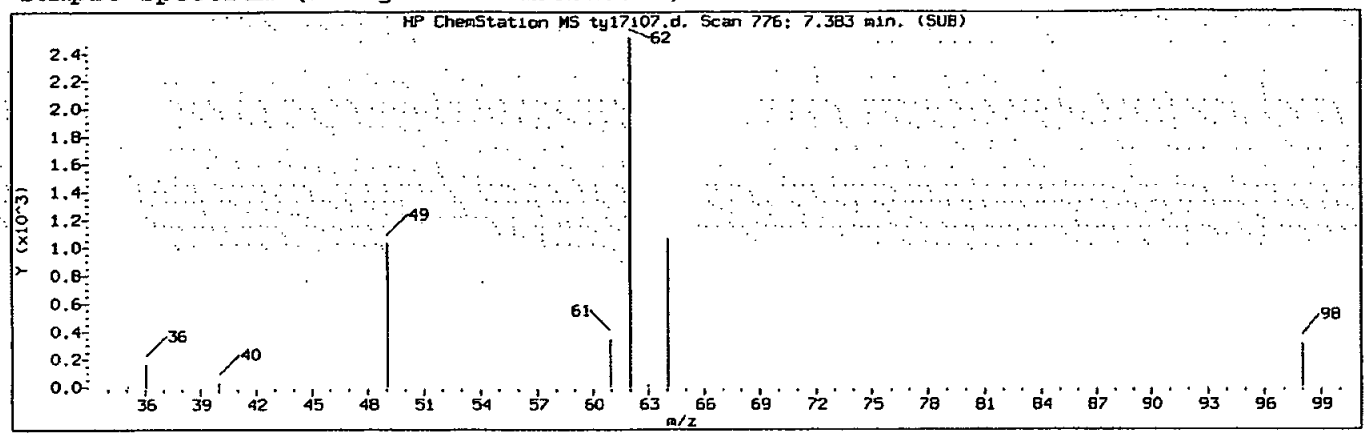
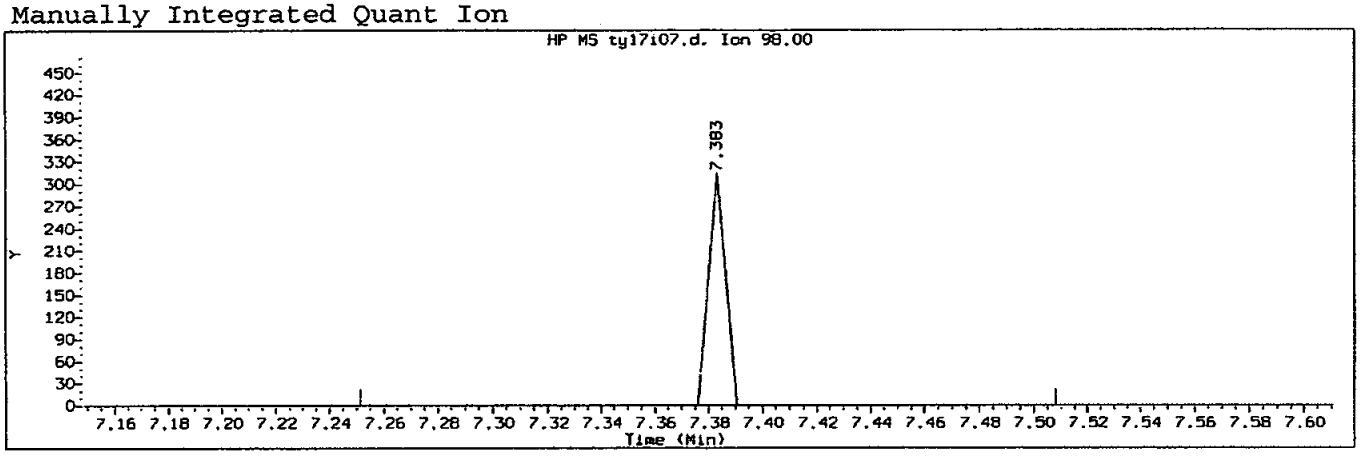
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001 Lab Sample ID: VSTD001

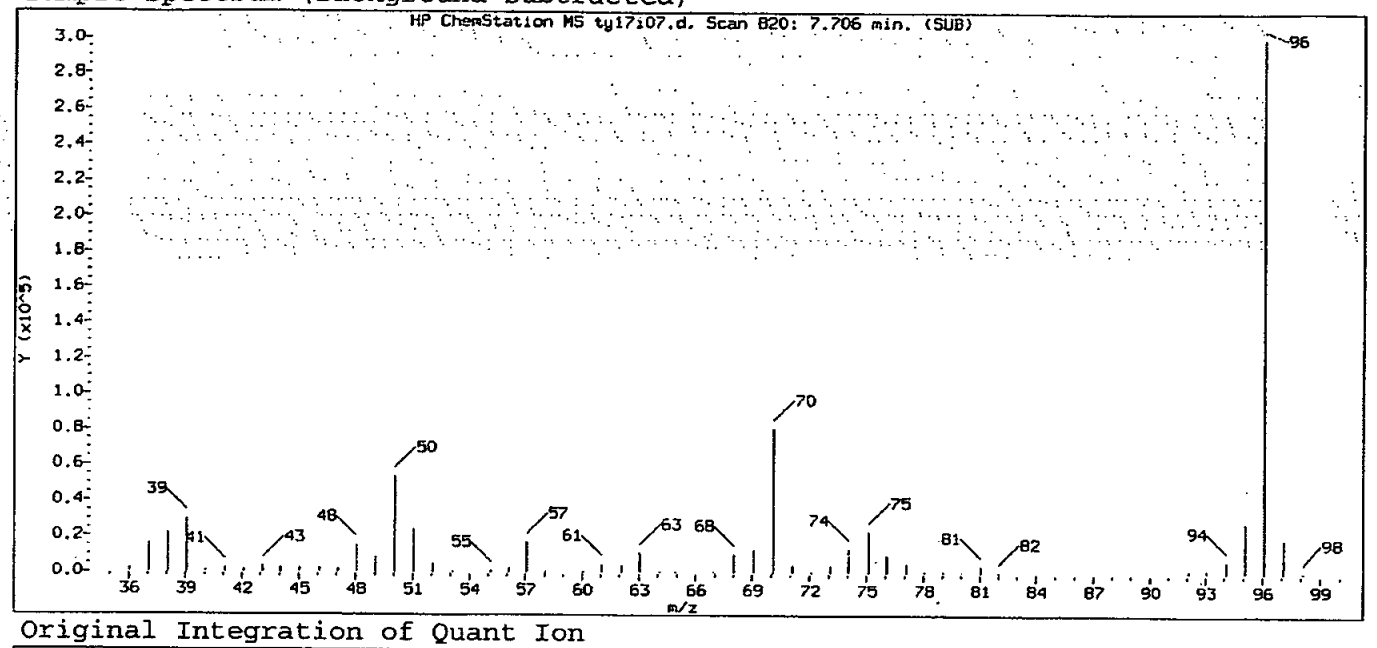
Compound Number	: 67		
Compound Name	: 1,2-Dichloroethane(mz98)		
Scan Number	: 776		
Retention Time (minutes)	: 7.383		
Quant Ion	: 98.00		
Area (flag)	: 138M		
On-Column Amount (ng)	: 0.9251		
Integration start scan	: 757	Integration stop scan:	792
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

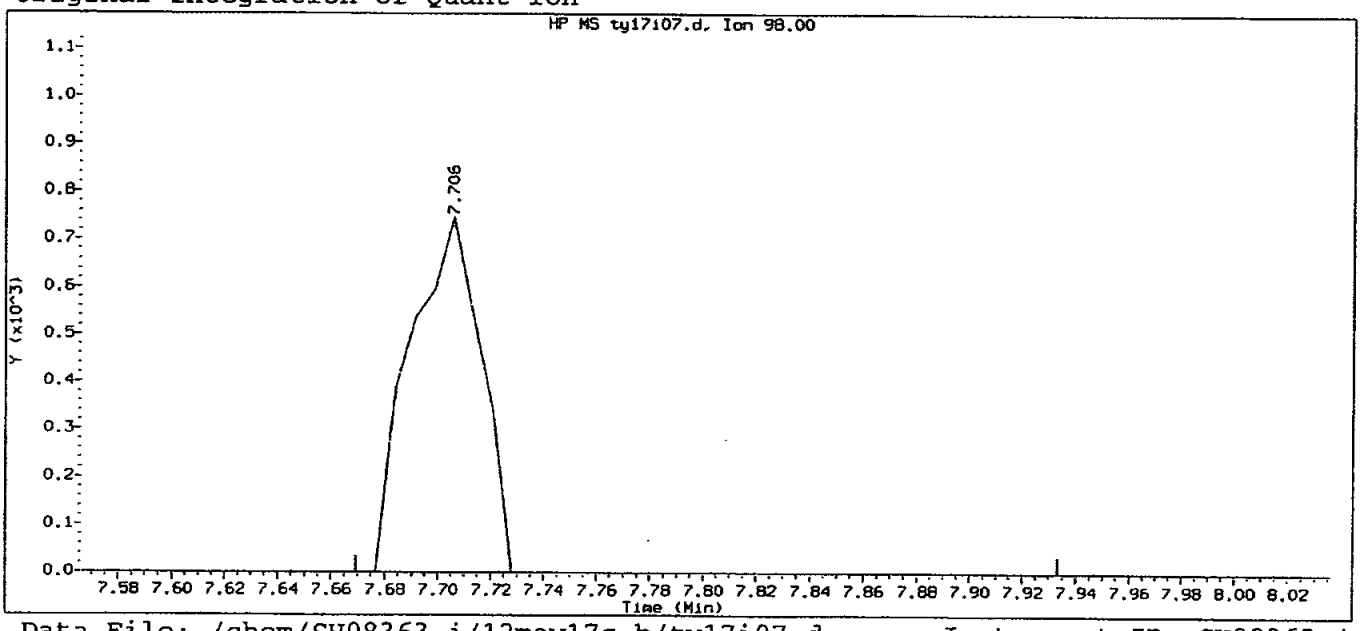
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 11:32. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number : 67
Compound Name : 1,2-Dichloroethane(mz98)
Scan Number : 820
Retention Time (minutes): 7.706
Quant Ion : 98.00
Area : 1380
On-column Amount (ng) : 61.4066
Integration start scan : 814 Integration stop scan: 850
Y at integration start : 0 Y at integration end: 0

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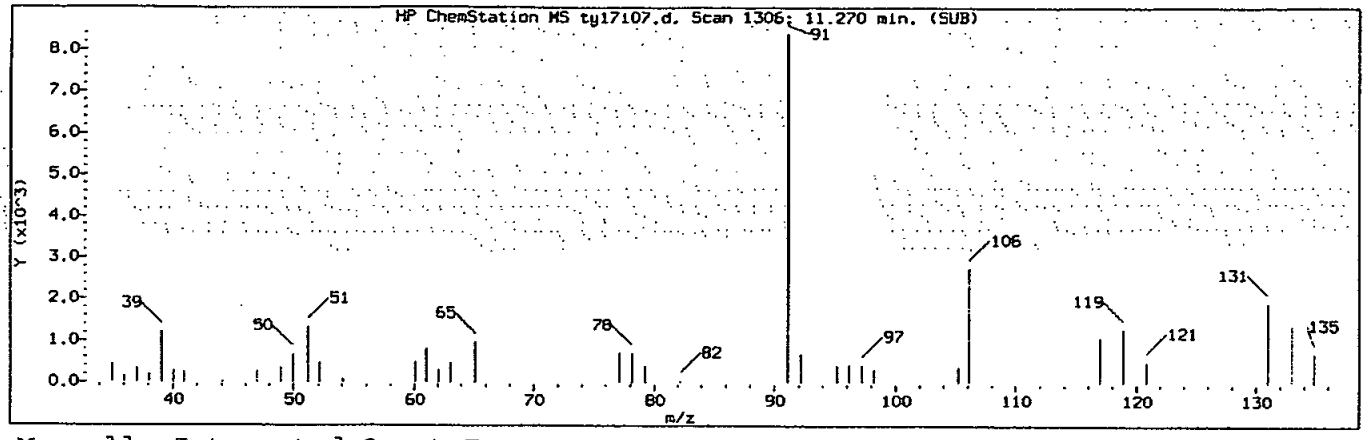
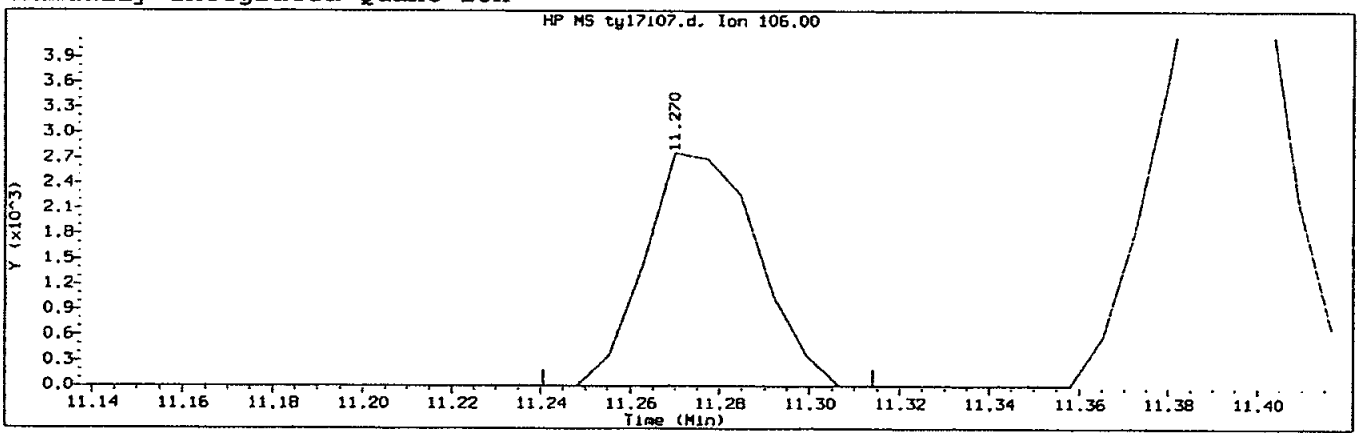
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001 Lab Sample ID: VSTD001

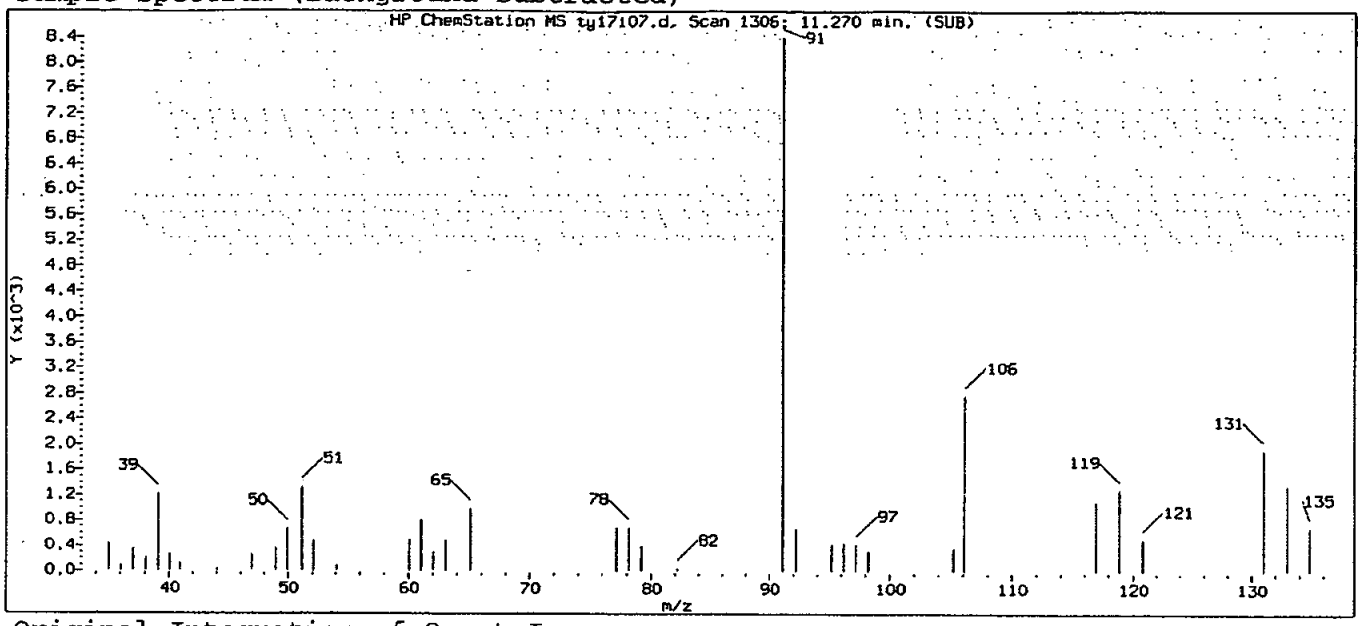
Compound Number	: 114
Compound Name	: Ethylbenzene
Scan Number	: 1306
Retention Time (minutes)	: 11.270
Quant Ion	: 106.00
Area (flag)	: 4813M
On-Column Amount (ng)	: 0.8649
Integration start scan	: 1301 Integration stop scan: 1311
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration: improper integration

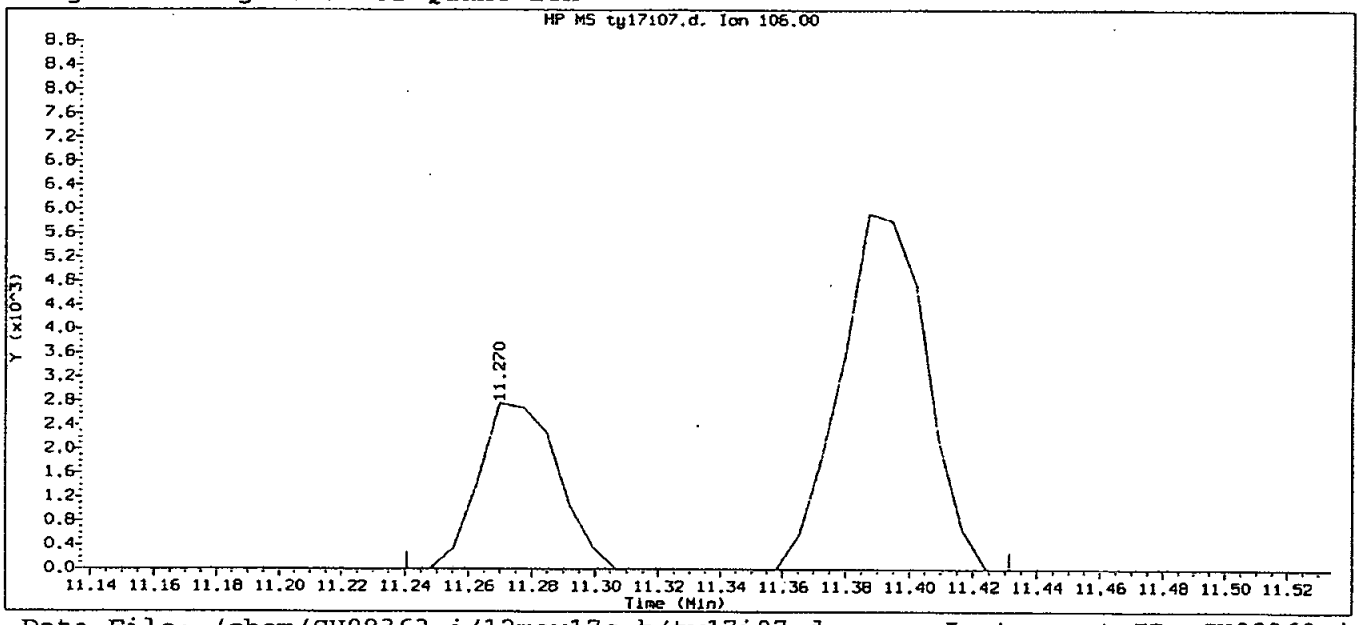
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 11:32. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

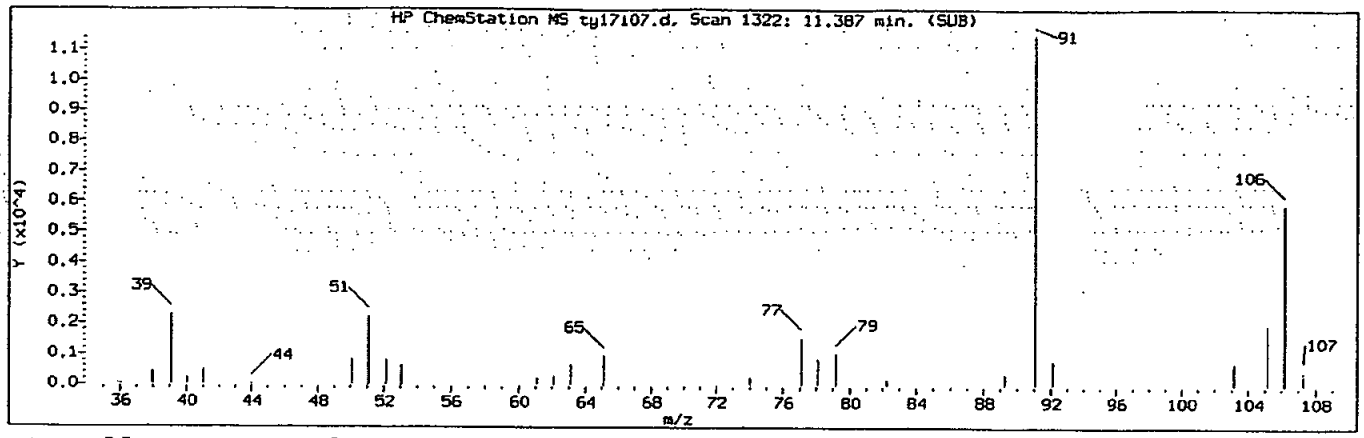
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD001 Lab Sample ID: VSTD001

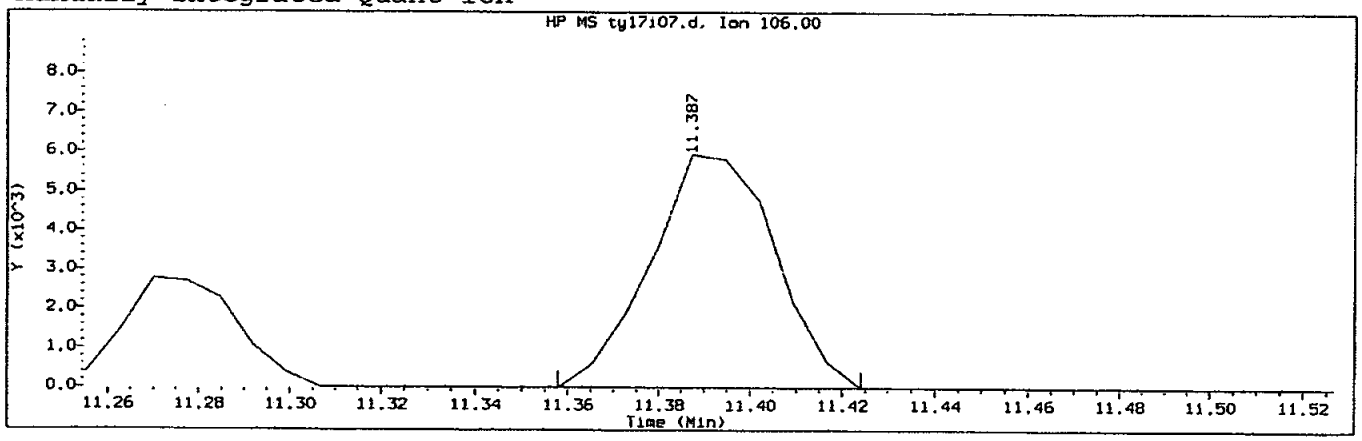
Compound Number : 114
Compound Name : Ethylbenzene
Scan Number : 1306
Retention Time (minutes): 11.270
Quant Ion : 106.00
Area : 15998
On-column Amount (ng) : 2.8720
Integration start scan : 1301 Integration stop scan: 1327
Y at integration start : 0 Y at integration end: 0

Digitally signed by Anita M. Dale on 05/21/2012 at 11:32.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001 Lab Sample ID: VSTD001

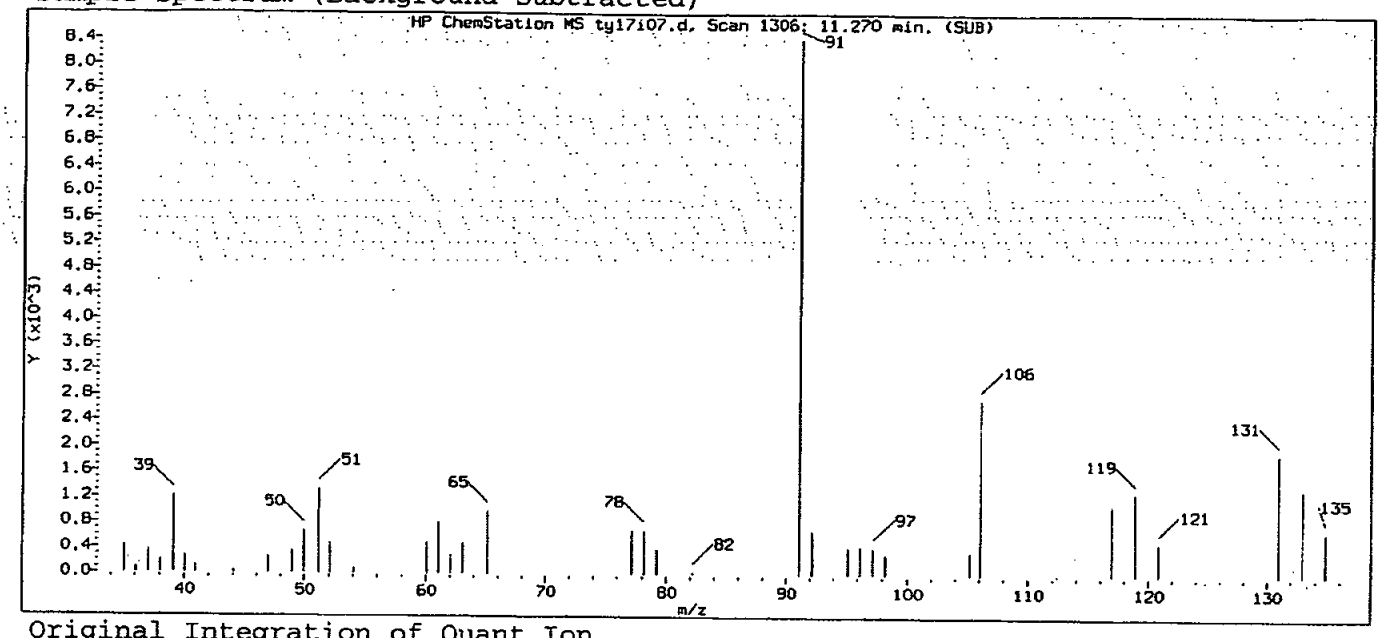
Compound Number : 115
Compound Name : m+p-Xylene
Scan Number : 1322
Retention Time (minutes): 11.387
Quant Ion : 106.00
Area (flag) : 11184M
On-Column Amount (ng) : 1.6189
Integration start scan : 1317 Integration stop scan: 1326
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

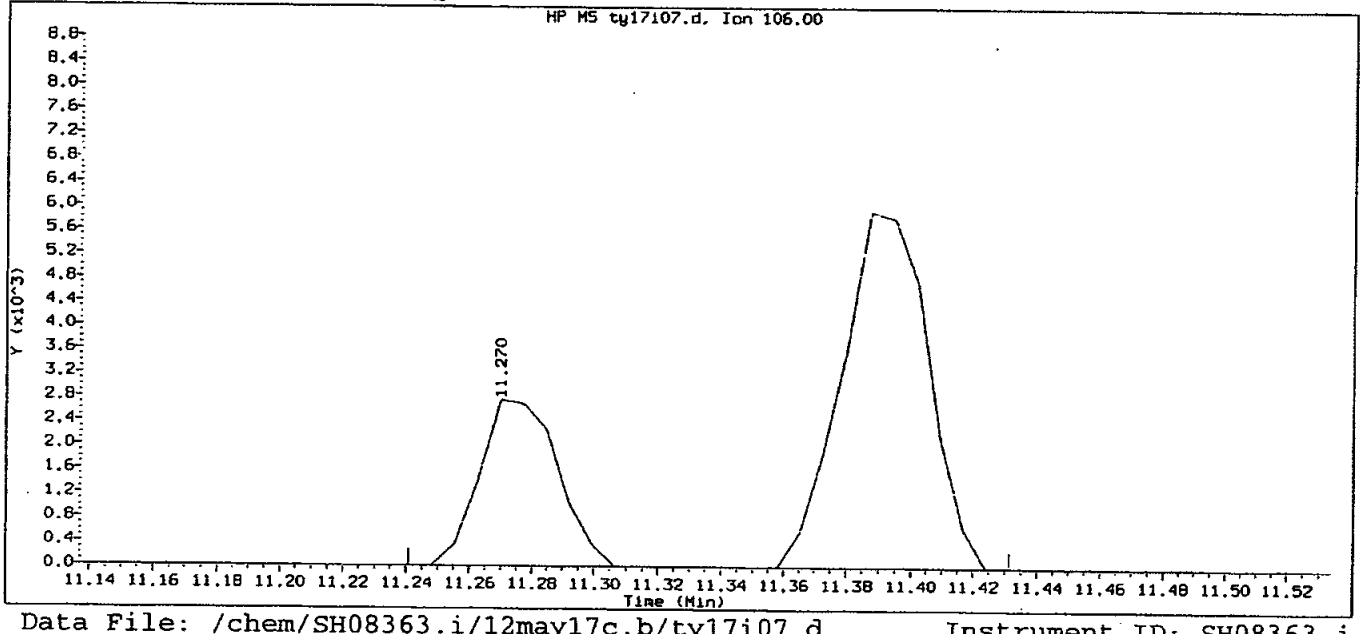
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 11:32. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: 6/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

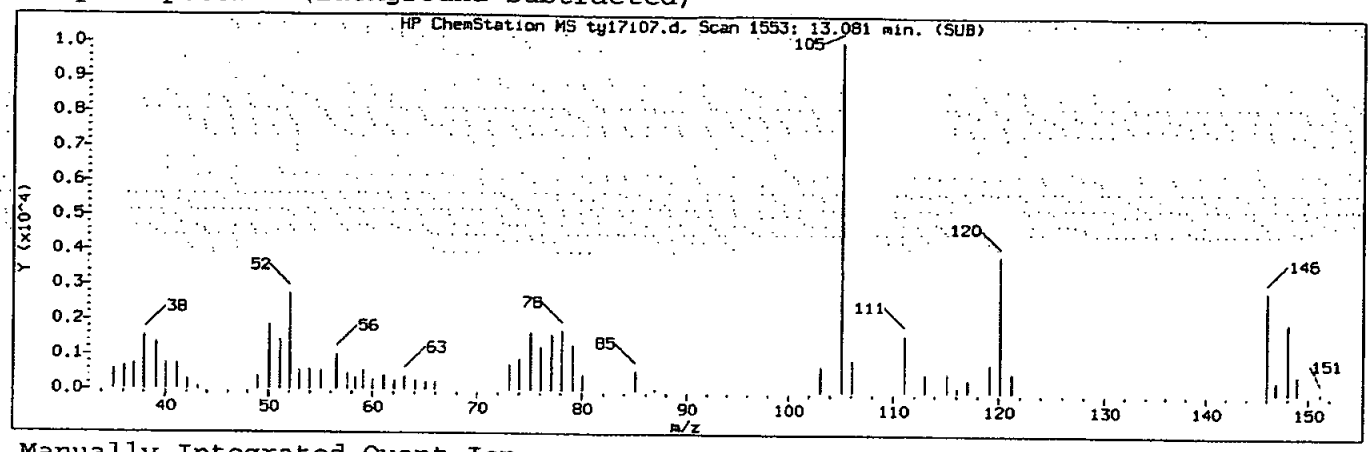
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD001 Lab Sample ID: VSTD001

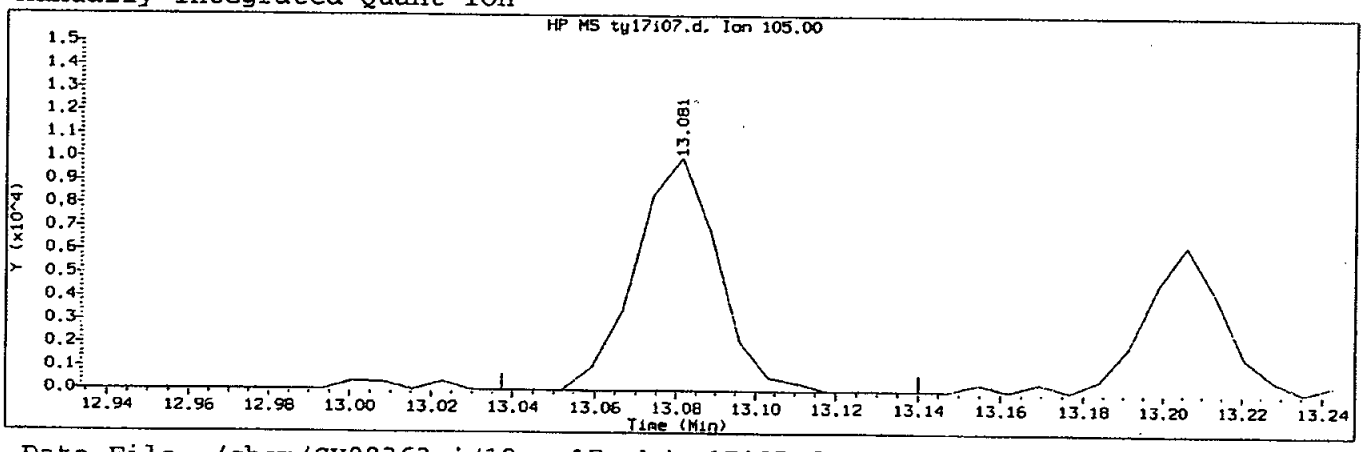
Compound Number : 115
Compound Name : m+p-Xylene
Scan Number : 1306
Retention Time (minutes): 11.270
Quant Ion : 106.00
Area : 15998
On-column Amount (ng) : 4.5811
Integration start scan : 1301 Integration stop scan: 1327
Y at integration start : 0 Y at integration end: 0

Digitally signed by Anita M. Dale on 05/21/2012 at 11:32.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d
Injection date and time: 17-MAY-2012 15:58

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 21-MAY-2012 09:58

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001

Lab Sample ID: VSTD001

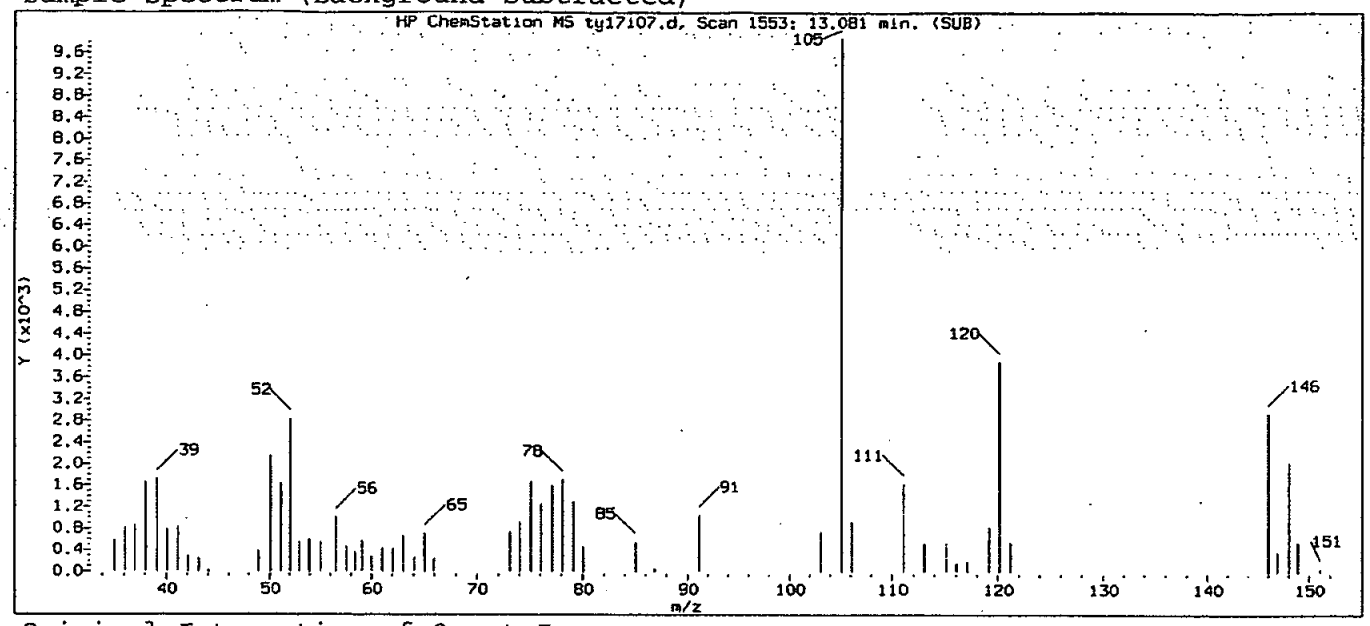
Compound Number	: 143
Compound Name	: 1,2,3-Trimethylbenzene
Scan Number	: 1553
Retention Time (minutes)	: 13.081
Quant Ion	: 105.00
Area (flag)	: 14413M
On-Column Amount (ng)	: 1.0194
Integration start scan	: 1546
Integration stop scan	: 1560
Y at integration start	: 0
Y at integration end	: 0

Reason for manual integration: improper integration

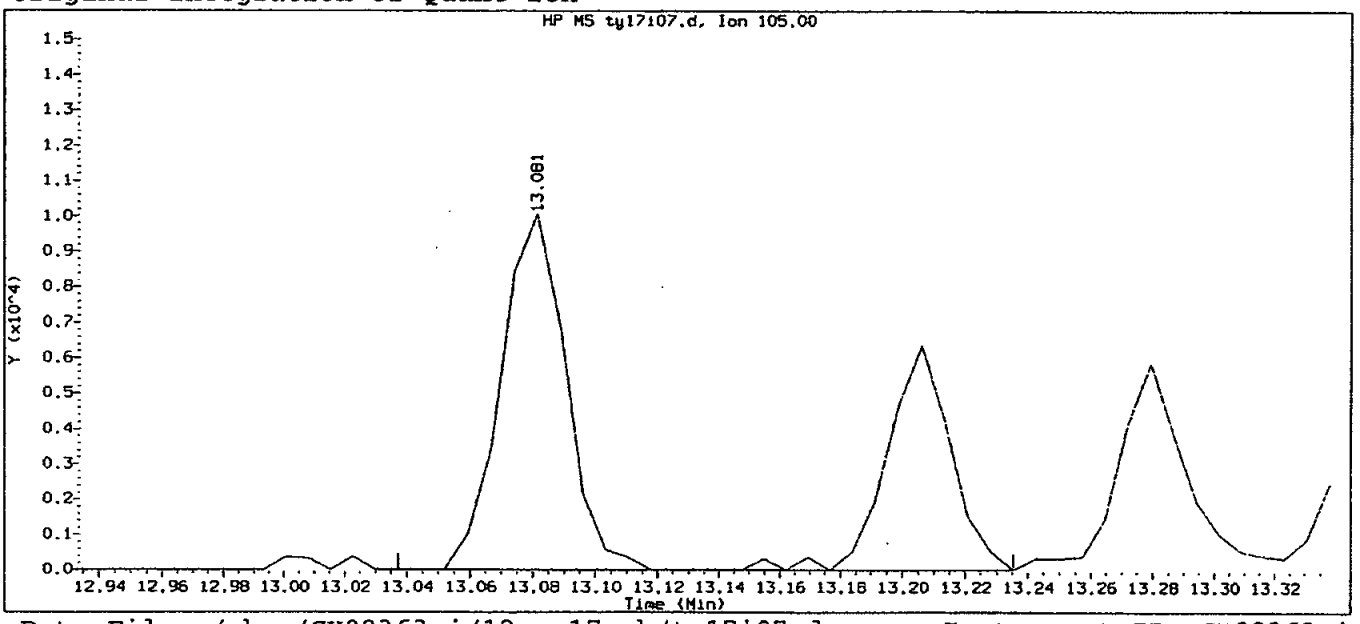
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 11:32. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number : 143
Compound Name : 1,2,3-Trimethylbenzene
Scan Number : 1553
Retention Time (minutes): 13.081
Quant Ion : 105.00
Area : 23402
On-column Amount (ng) : 1.6292
Integration start scan : 1546 Integration stop scan: 1573
Y at integration start : 0 Y at integration end: 0

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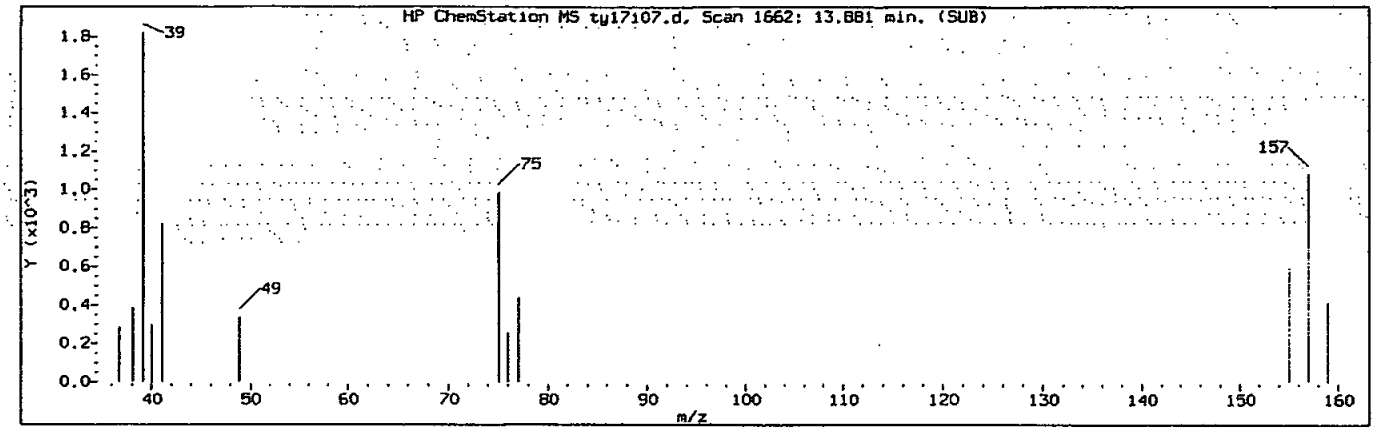
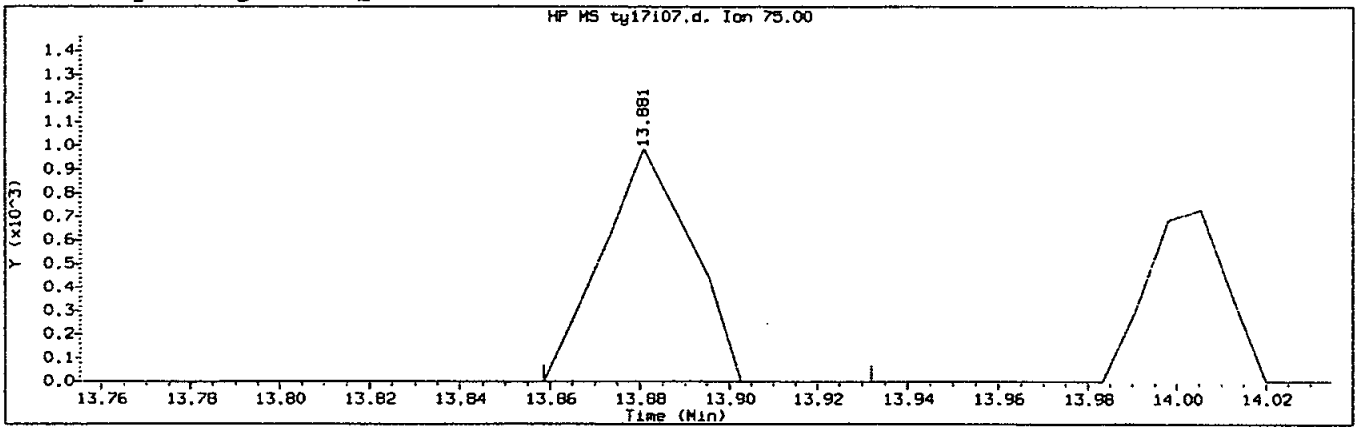
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 21-MAY-2012 09:58
Date, time and analyst ID of latest file update: 21-May-2012 11:32 amd00492

Sample Name: VSTD001 Lab Sample ID: VSTD001

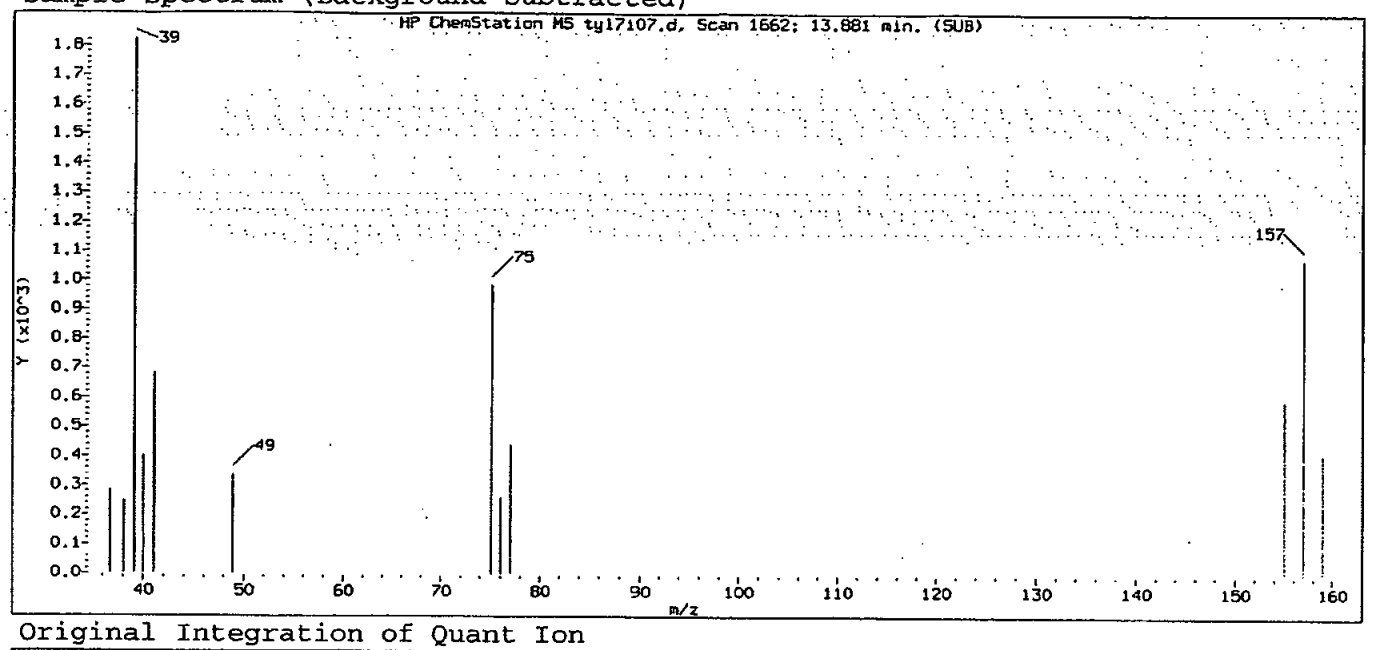
Compound Number	:	151
Compound Name	:	1,2-Dibromo-3-Chloropropane
Scan Number	:	1662
Retention Time (minutes)	:	13.881
Quant Ion	:	75.00
Area (flag)	:	1351M
On-Column Amount (ng)	:	0.8462
Integration start scan	:	1658 Integration stop scan: 1668
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration: improper integration

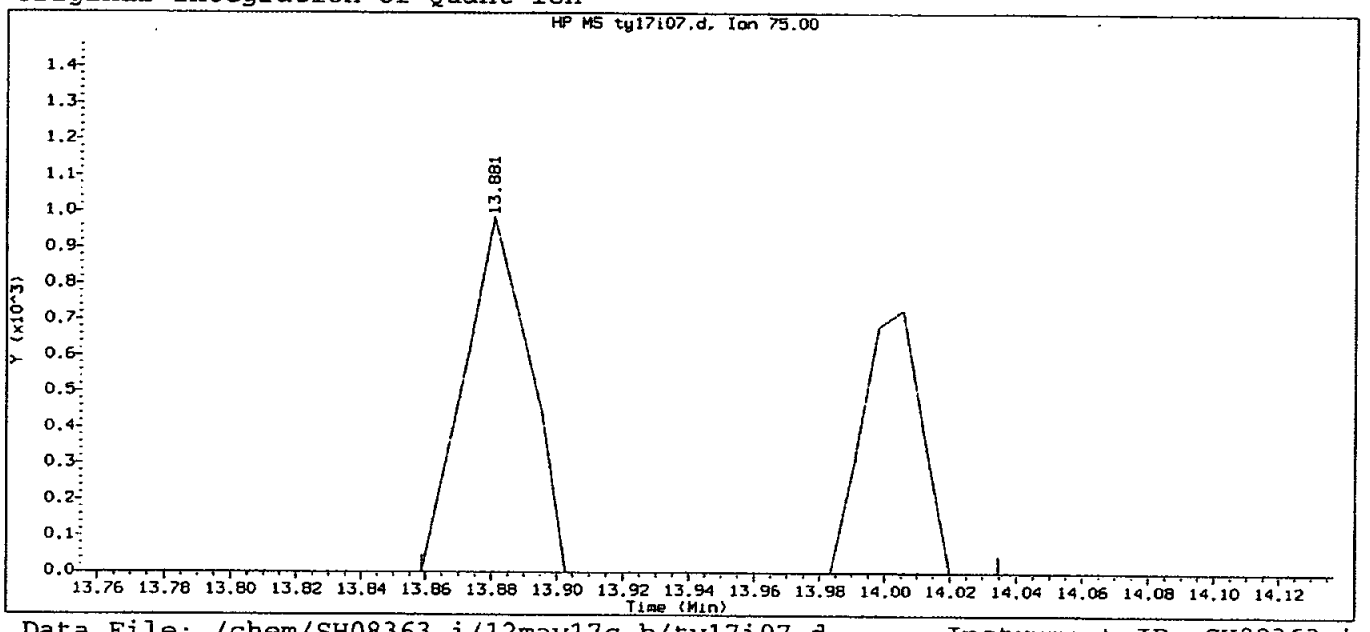
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 11:32. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17i07.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 15:58 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 151	
Compound Name	: 1,2-Dibromo-3-Chloropropane	
Scan Number	: 1662	
Retention Time (minutes)	: 13.881	
Quant Ion	: 75.00	
Area	: 2261	
On-column Amount (ng)	: 1.1299	
Integration start scan	: 1658	Integration stop scan: 1682
Y at integration start	: 0	Y at integration end: 0

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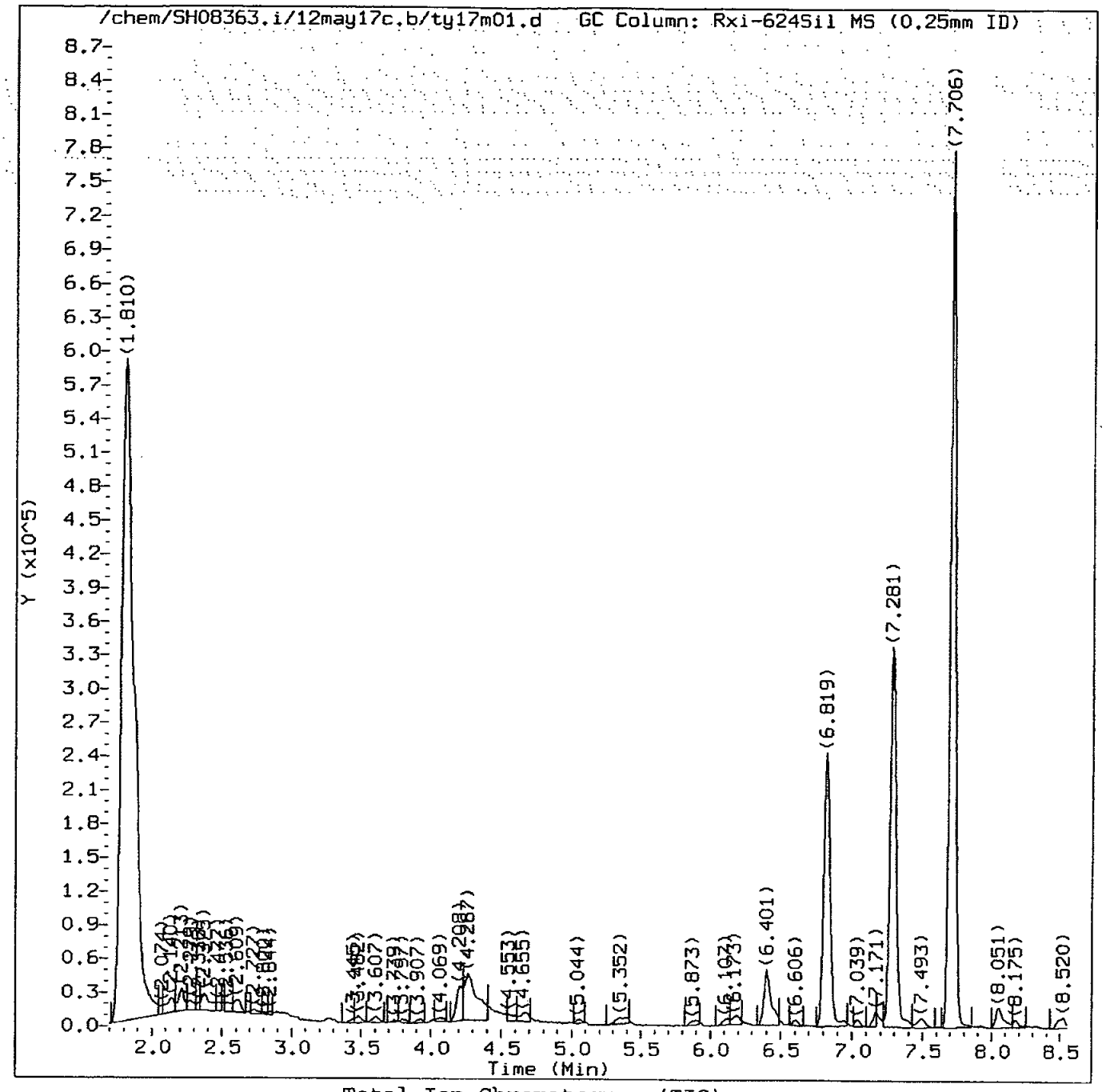
Target 3.5 esignature user ID: amd00492



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17m01.d
Injection date and time: 17-MAY-2012 16:22

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 21-MAY-2012 10:00

Sublist used: 8260W-F

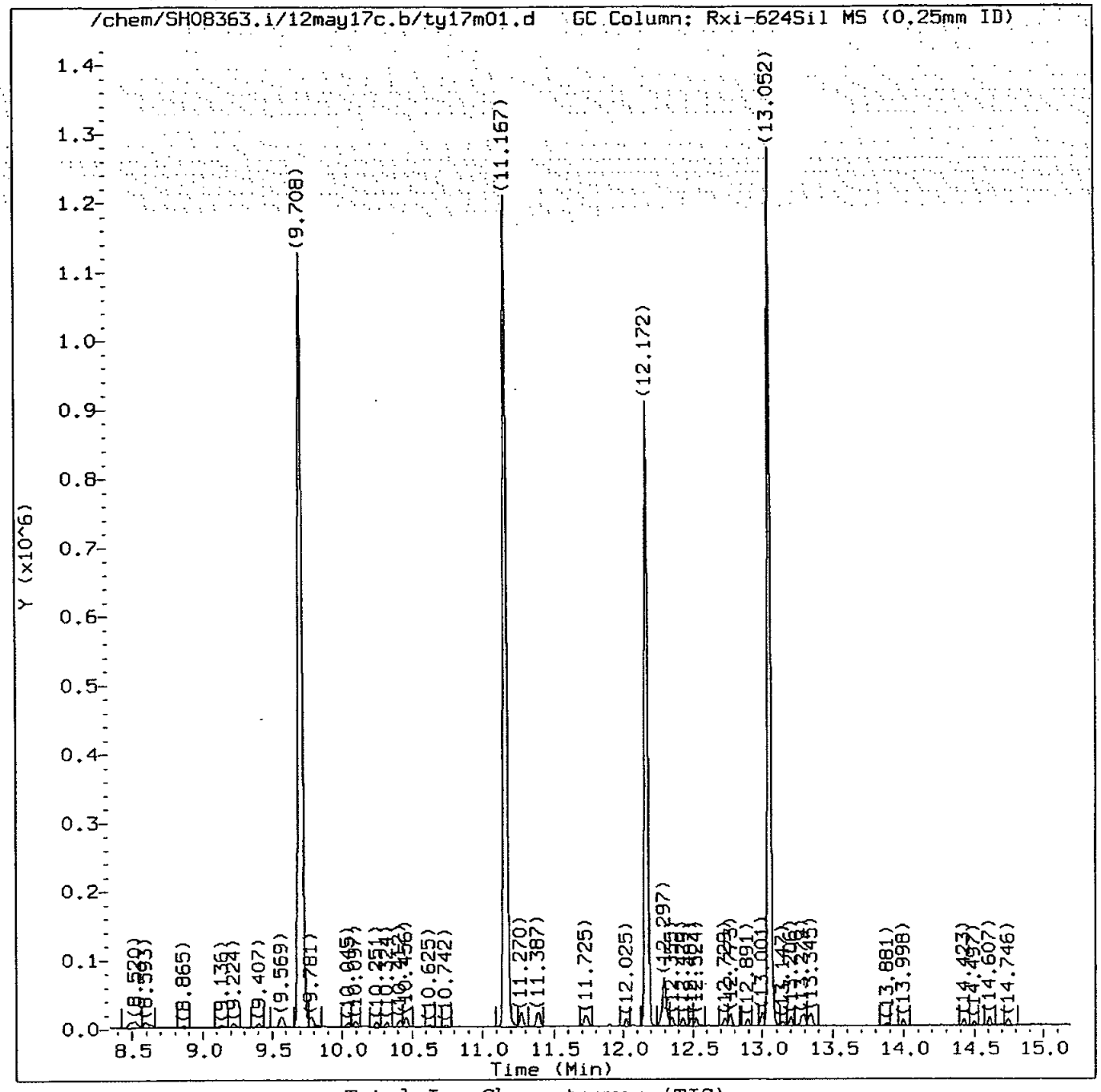
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL

Lab Sample ID: 0.5PPB MDL

Digitally signed by Anita M. Dale
on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

ASX73 0397



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

Digitally signed by Anita M. Dale
on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

ASX73 0398

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.015	85	3612	0.440
2) Chloromethane	(1)	2.140	50	7104	0.517
4) Vinyl Chloride	(1)	2.279	62	4462	0.510
7) Bromomethane	(1)	2.602	94	2266	0.441
8) Chloroethane	(1)	2.727	64	3058	0.655
13) Trichlorofluoromethane	(1)	3.035	101	1946	0.378
15) Ethyl Ether	(1)	3.269	59	3061	2.666
17) Acrolein	(4)	3.482	56	12892	4.426
21) Acetone	(1)	3.599	58	473	0.408
18) 1,1-Dichloroethene	(1)	3.614	96	1562	0.428
19) Freon 113	(1)	3.621	101	1188	0.323
23) 2-Propanol	(4)	3.739	45	7486	8.563
22) Methyl Iodide	(1)	3.805	142	3458	0.470
24) Carbon Disulfide	(1)	3.929	76	6822	0.449
26) Methyl Acetate	(1)	4.010	43	14347	0.905
25) Allyl Chloride	(1)	4.083	41	9752	0.572
28)*t-Butyl Alcohol-d10	(4)	4.267	65	240109	250.000
27) Methylene Chloride	(1)	4.289	84	4236	0.756
29) t-Butyl Alcohol	(4)	4.391	59	11488M	10.511
30) Acrylonitrile	(1)	4.611	53	2302	0.416
31) Methyl Tertiary Butyl Ether	(1)	4.670	73	6971	0.481
32) trans-1,2-Dichloroethene	(1)	4.692	96	1941	0.449
34) n-Hexane	(1)	5.059	57	3636	0.463
36) 1,1-Dichloroethane	(1)	5.315	63	5025	0.484
41) 1,2-Dichloroethene (total)	(1)		96	3959	0.864
37) di-Isopropyl Ether	(1)	5.352	45	16583	0.494
40) 2-Chloro-1,3-Butadiene	(1)	5.411	53	4243	0.436
42) Ethyl t-Butyl Ether	(1)	5.895	59	8802	0.458
45) 2-Butanone	(1)	6.085	43	11084	1.045
44) cis-1,2-Dichloroethene	(1)	6.129	96	2018	0.416
43) 2,2-Dichloropropane	(1)	6.159	77	2405	0.452
46) Propionitrile	(4)	6.195	54	19662	9.360
47) Methacrylonitrile	(1)	6.408	67	17370	4.365
49) Bromochloromethane	(1)	6.467	128	559	0.216
50) Tetrahydrofuran	(4)	6.467	71	1224	0.860
52) Chloroform	(1)	6.606	83	5373	0.619
54)$Dibromofluoromethane	(1)	6.819	113	235846	50.413
55) 1,1,1-Trichloroethane	(1)	6.848	97	2525	0.524

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

ASX73 0399

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
58) Cyclohexane	(1)	6.943	56	4105M	0.401
59) 1,1-Dichloropropene	(1)	7.039	75	3021	0.471
60) Carbon Tetrachloride	(1)	7.053	117	1118M	0.297
61) Isobutyl Alcohol	(4)	7.171	41	20805	29.109
62)$1,2-Dichloroethane-d4	(1)	7.281	102	57776	50.921
65) Benzene	(1)	7.303	78	9444	0.499
66) 1,2-Dichloroethane	(1)	7.383	62	3661	0.502
68) t-Amyl Methyl Ether	(1)	7.493	73	6512	0.447
70)*Fluorobenzene	(1)	7.706	96	821468	50.000
69) n-Heptane	(1)	7.706	43	6765	0.547
73) n-Butanol	(4)	8.043	56	18256	43.837
74) Trichloroethene	(1)	8.175	95	2238	0.511
76) Methylcyclohexane	(1)	8.476	83	2922	0.440
79) 1,2-Dichloropropane	(1)	8.520	63	2777	0.445
81) Methyl Methacrylate	(1)	8.593	69	2485	0.440
82) 1,4-Dioxane	(4)	8.608	88	546	8.529
80) Dibromomethane	(1)	8.637	93	1835	0.473
83) Bromodichloromethane	(1)	8.865	83	2260	0.383
84) 2-Nitropropane	(1)	9.121	41	2541	0.778
85) 2-Chloroethyl Vinyl Ether	(1)	9.217	63	1998	0.361
87) cis-1,3-Dichloropropene	(1)	9.407	75	2814	0.361
88) 4-Methyl-2-Pentanone	(1)	9.569	58	12881	2.236
90)$Toluene-d8	(2)	9.708	98	736983	49.963
93) Toluene	(2)	9.789	92	5036	0.492
96) trans-1,3-Dichloropropene	(2)	10.045	75	2551	0.356
97) Ethyl Methacrylate	(2)	10.097	69	3644	0.405
98) 1,1,2-Trichloroethane	(2)	10.251	97	2189	0.485
99) Tetrachloroethene	(2)	10.324	166	2177	0.538
100) 1,3-Dichloropropane	(2)	10.412	76	3981	0.449
101) 2-Hexanone	(2)	10.456	58	4546	0.689
103) Dibromochloromethane	(2)	10.625	129	1666	1.437
104) 1,2-Dibromoethane	(2)	10.742	107	2327	0.448
107)*Chlorobenzene-d5	(2)	11.160	117	540244	50.000
108) Chlorobenzene	(2)	11.182	112	5421	0.507
111) 1,1,1,2-Tetrachloroethane	(2)	11.270	131	1251	0.369
114) Ethylbenzene	(2)	11.277	106	2394M	0.447
116) Xylene (Total)	(2)		106	8998	1.369
115) m+p-Xylene	(2)	11.387	106	6057M	0.912

M = Compound was manually integrated.
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on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

ASX73 8400

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may17c.b/ty17m01.d
Injection date and time: 17-MAY-2012 16:22

Instrument ID: SH08363.i
Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sublist used: 8260W-F

Sample Name: 0.5PPB MDL

Lab Sample ID: 0.5PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
117) o-Xylene	(2)	11.717	106	2941	0.457
119) Styrene	(2)	11.732	104	4108	0.366
120) Bromoform	(2)	11.901	173	1238	2.116
121) Isopropylbenzene	(2)	12.025	105	6039	0.406
124)$4-Bromofluorobenzene	(2)	12.172	95	304378	49.878
126) 1,1,2,2-Tetrachloroethane	(3)	12.267	83	4241	0.471
127) Bromobenzene	(3)	12.282	156	2043	0.445
129) trans-1,4-Dichloro-2-Butene	(3)	12.297	53	13680	4.305
128) 1,2,3-Trichloropropane	(3)	12.319	110	976	0.521
130) n-Propylbenzene	(3)	12.355	91	9803	0.493
131) 2-Chlorotoluene	(3)	12.429	126	1965	0.510
132) 1,3,5-Trimethylbenzene	(3)	12.487	105	5388	0.435
133) 4-Chlorotoluene	(3)	12.517	126	1583	0.386
134) tert-Butylbenzene	(3)	12.729	134	1121	0.436
135) Pentachloroethane	(3)	12.766	167	1062	0.411
137) 1,2,4-Trimethylbenzene	(3)	12.773	105	5896M	0.460
138) sec-Butylbenzene	(3)	12.773	105	5896M	0.393
139) 1,3-Dichlorobenzene	(3)	12.993	146	3388	0.432
140) p-Isopropyltoluene	(3)	13.001	119	5093	0.419
141)*1,4-Dichlorobenzene-d4	(3)	13.052	152	262403	50.000
142) 1,4-Dichlorobenzene	(3)	13.067	146	3840	0.474
143) 1,2,3-Trimethylbenzene	(3)	13.074	105	6837M	0.500
144) Benzyl Chloride	(3)	13.147	91	3353	0.291
145) 1,3-Diethylbenzene	(3)	13.206	119	3656	0.482
146) 1,4-Diethylbenzene	(3)	13.279	119	3762	0.479
147) n-Butylbenzene	(3)	13.294	92	3876	0.464
148) 1,2-Dichlorobenzene	(3)	13.323	146	3718	0.492
149) 1,2-Diethylbenzene	(3)	13.345	119	3155	0.499
151) 1,2-Dibromo-3-Chloropropane	(3)	13.881	75	897M	0.581
153) 1,3,5-Trichlorobenzene	(3)	13.991	180	2864	0.539
154) 1,2,4-Trichlorobenzene	(3)	14.423	180	2890	0.611
155) Hexachlorobutadiene	(3)	14.497	225	1438	0.702
156) Naphthalene	(3)	14.607	128	8191	0.571
157) 1,2,3-Trichlorobenzene	(3)	14.746	180	2621	0.577

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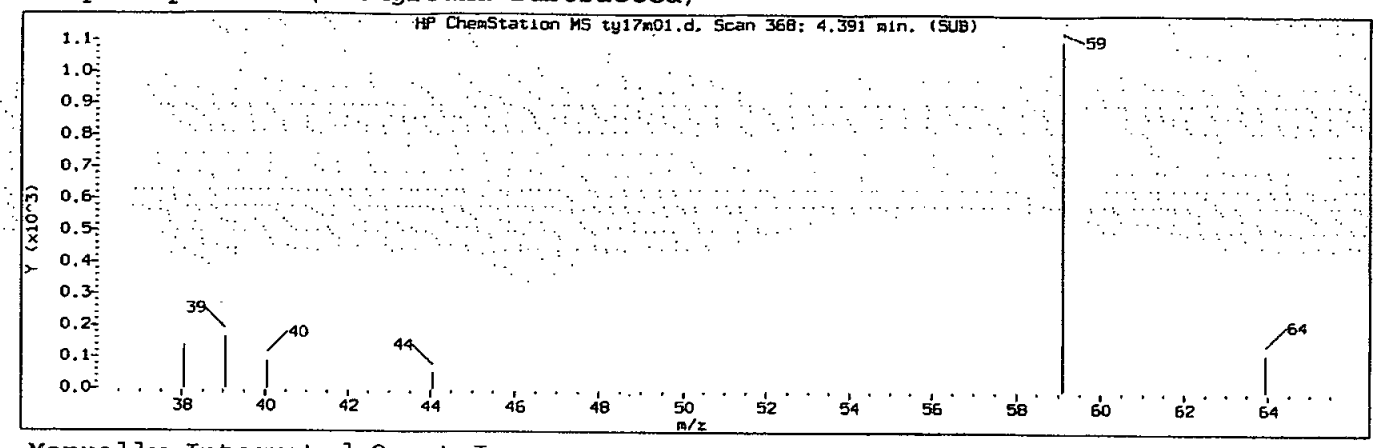
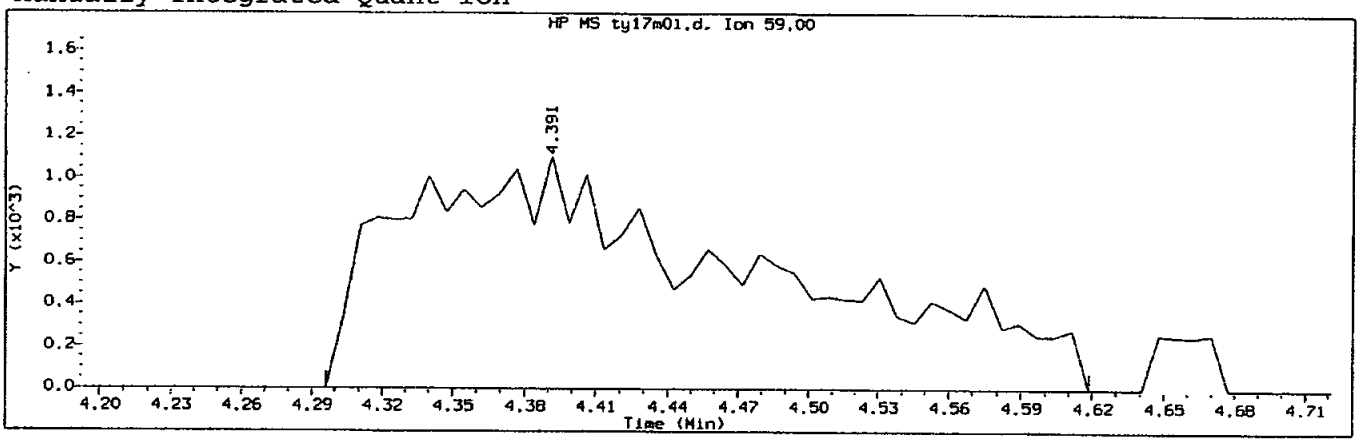
Digitally signed by Anita M. Dale
on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

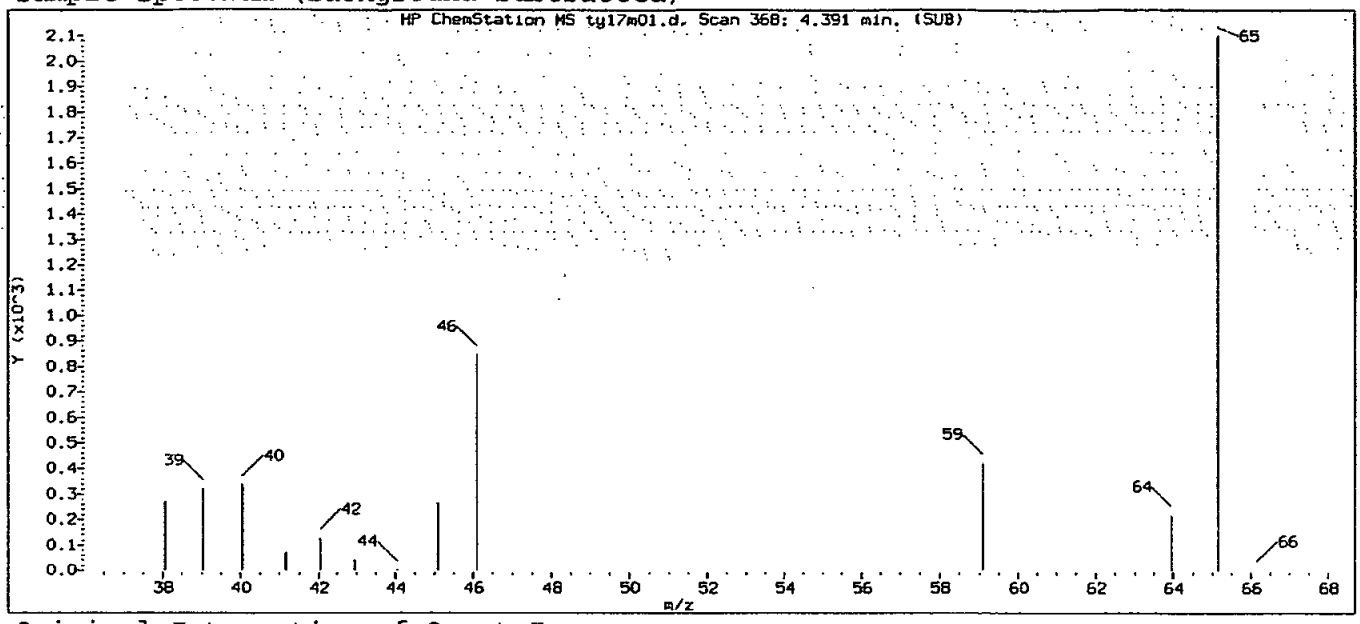
Compound Number	: 29
Compound Name	: t-Butyl Alcohol
Scan Number	: 368
Retention Time (minutes)	: 4.391
Quant Ion	: 59.00
Area (flag)	: 11488M
On-Column Amount (ng)	: 10.5107
Integration start scan	: 354
Integration stop scan	: 398
Y at integration start	: 0
Y at integration end	: 0

Reason for manual integration: improper integration

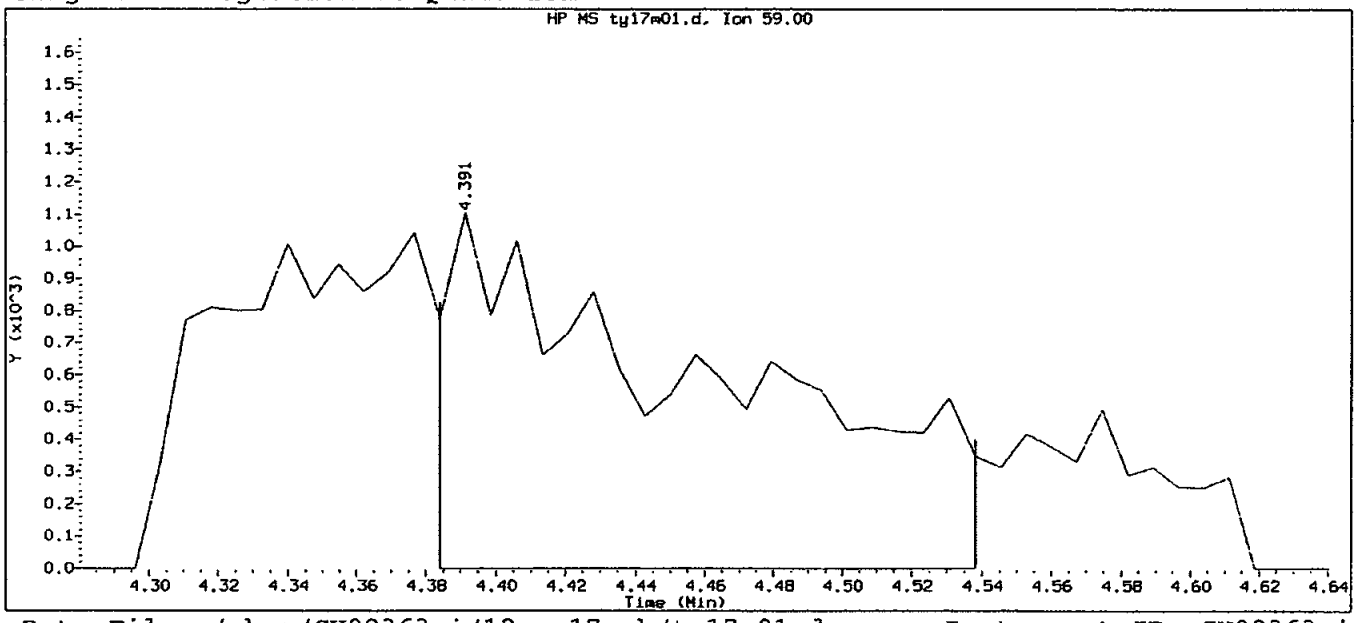
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:03. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

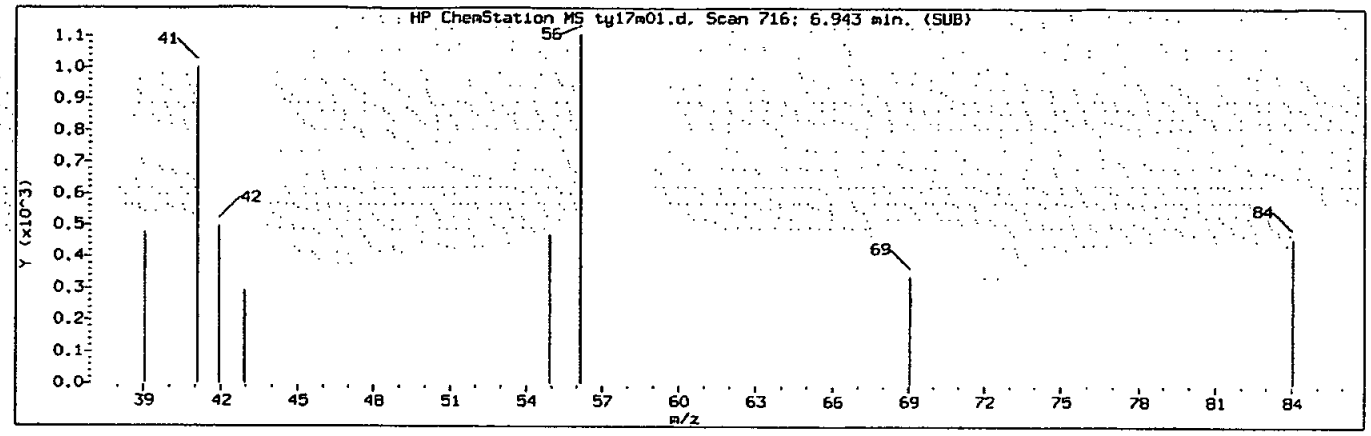
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

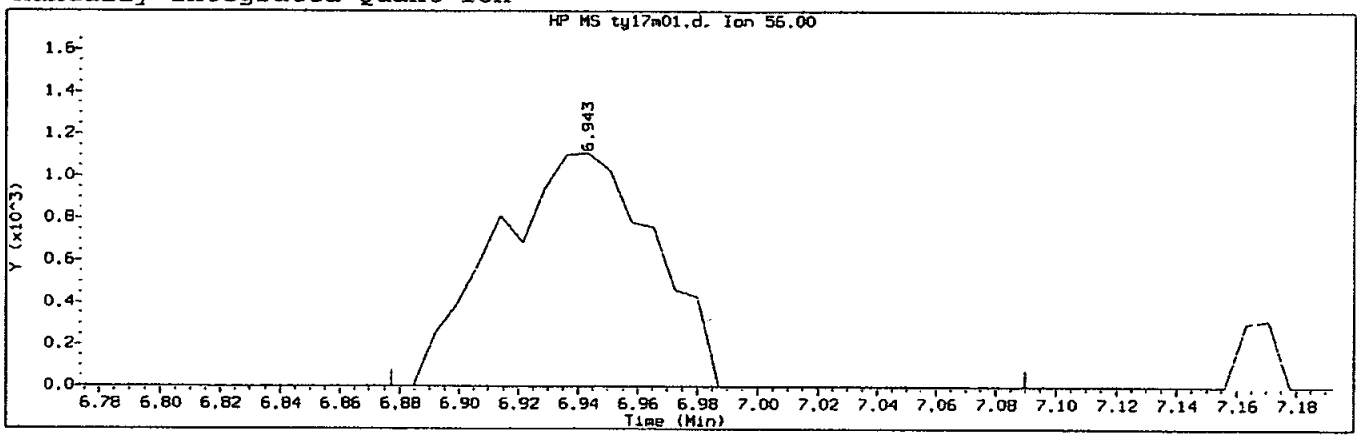
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 368		
Retention Time (minutes)	: 4.391		
Quant Ion	: 59.00		
Area	: 5767		
On-column Amount (ng)	: 7.0908		
Integration start scan	: 366	Integration stop scan:	387
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Anita M. Dale on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

Compound Number	: 58		
Compound Name	: Cyclohexane		
Scan Number	: 716		
Retention Time (minutes)	: 6.943		
Quant Ion	: 56.00		
Area (flag)	: 4105M		
On-Column Amount (ng)	: 0.4007		
Integration start scan	: 706	Integration stop scan:	735
Y at integration start	: 0	Y at integration end:	0

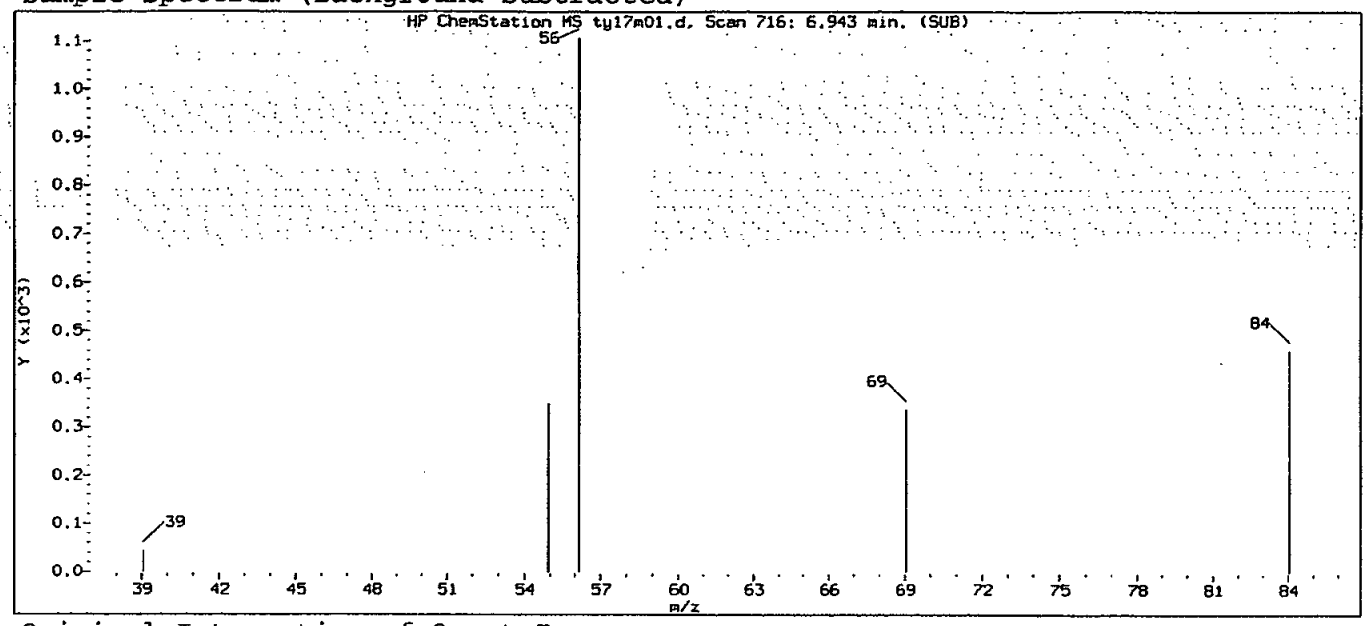
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:03. Target 3.5 esignature user ID: amd00492

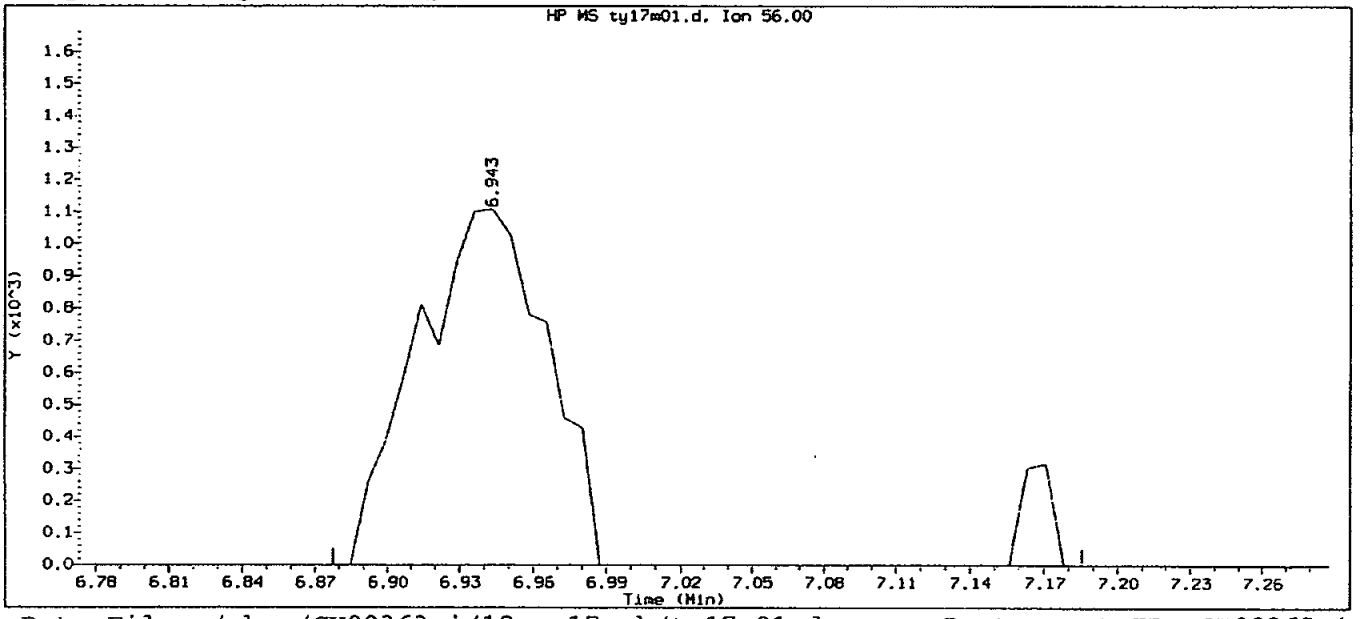
GC/MS audit/management approval: 5/21/12

ASX73 9404

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

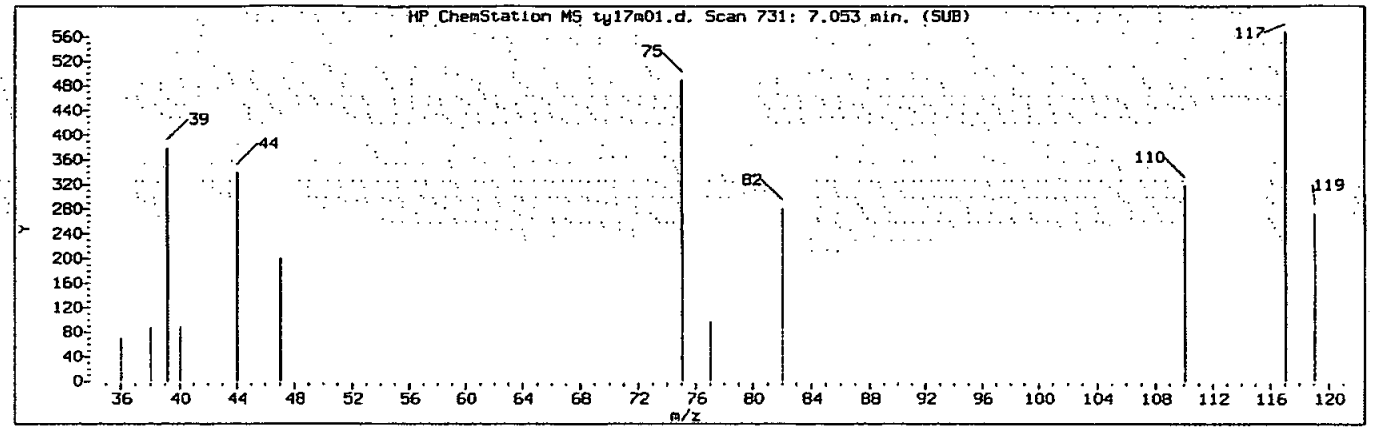
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

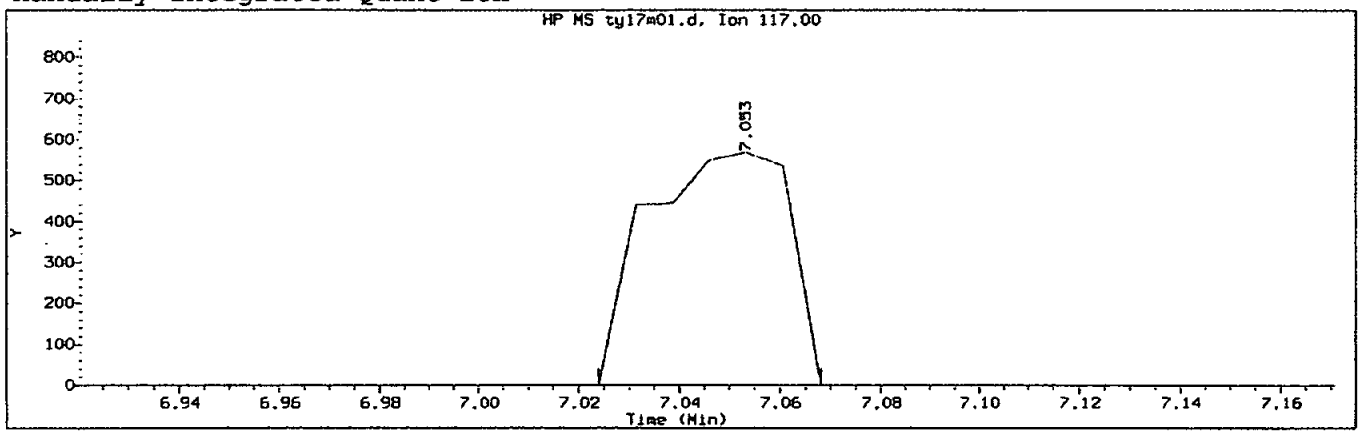
Compound Number	: 58		
Compound Name	: Cyclohexane		
Scan Number	: 716		
Retention Time (minutes)	: 6.943		
Quant Ion	: 56.00		
Area	: 4377		
On-column Amount (ng)	: 0.4305		
Integration start scan	: 706	Integration stop scan:	748
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Anita M. Dale on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

Compound Number	: 60		
Compound Name	: Carbon Tetrachloride		
Scan Number	: 731		
Retention Time (minutes)	: 7.053		
Quant Ion	: 117.00		
Area (flag)	: 1118M		
On-Column Amount (ng)	: 0.2965		
Integration start scan	: 726	Integration stop scan:	732
Y at integration start	: 0	Y at integration end:	0

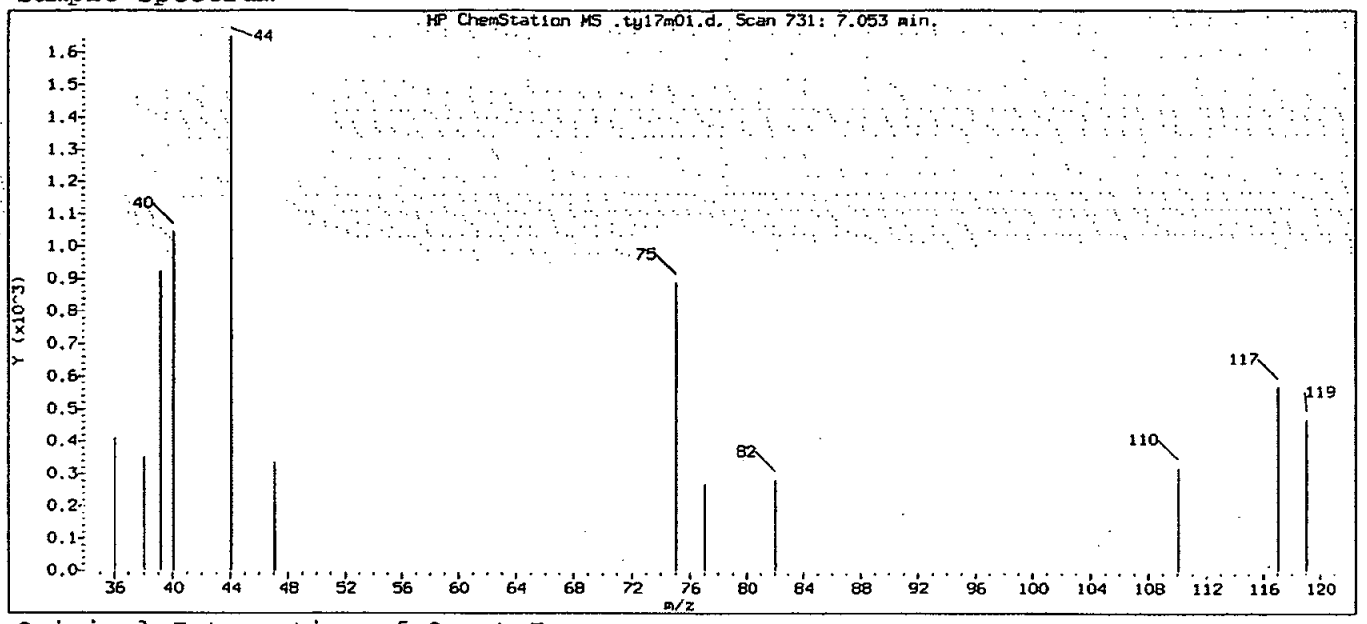
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:03. Target 3.5 esignature user ID: amd00492

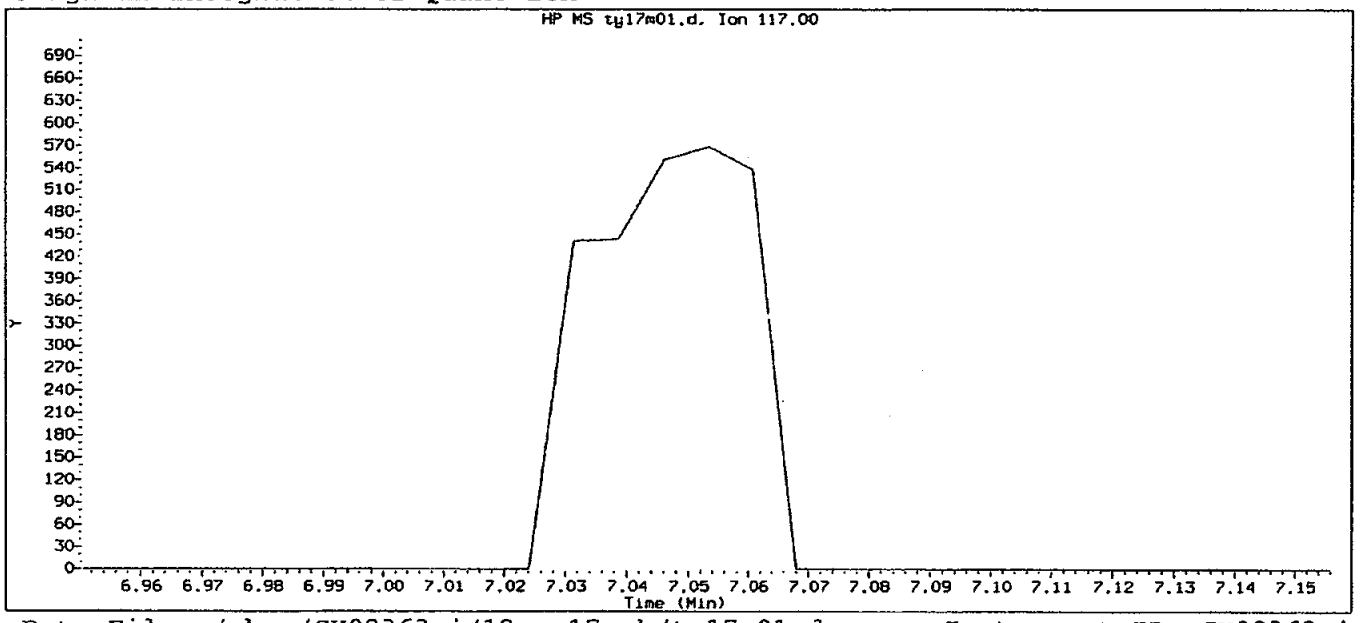
GC/MS audit/management approval: 5/21/12

ASX73 9486

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

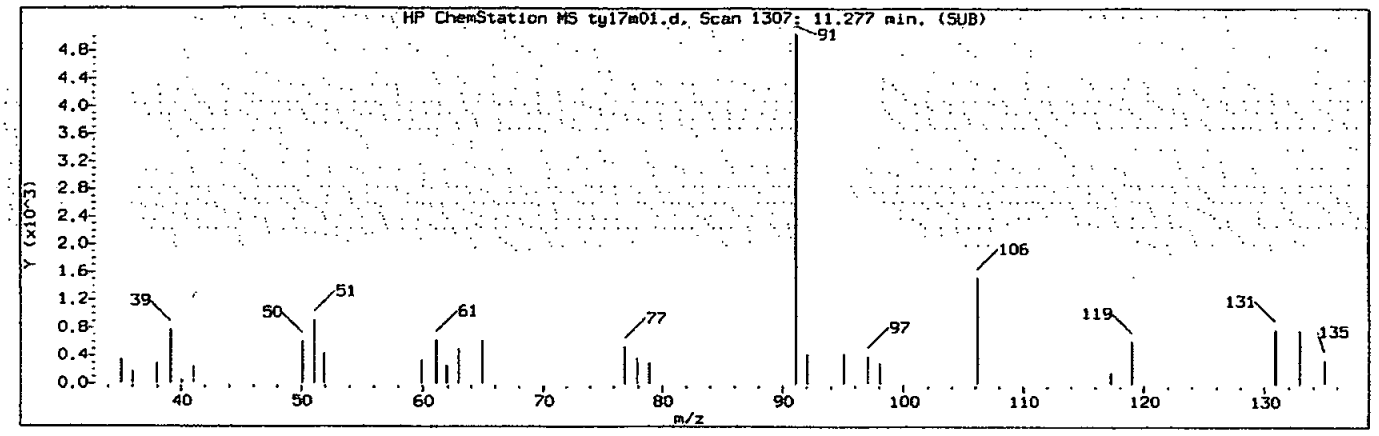
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

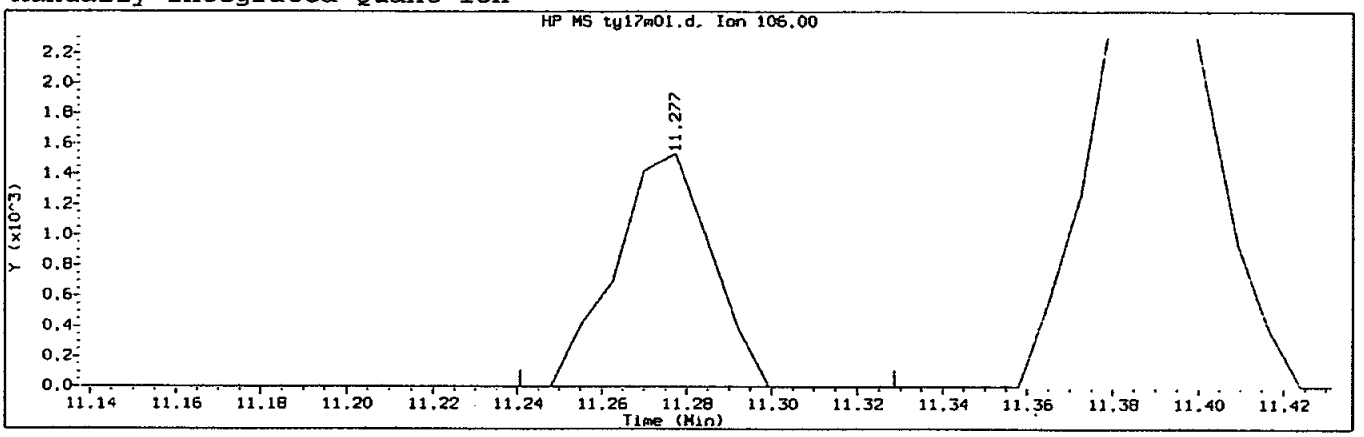
Compound Number : 60
Compound Name : Carbon Tetrachloride
Expected RT (minutes) : 7.053
Quant Ion : 117.00

Digitally signed by Anita M. Dale on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

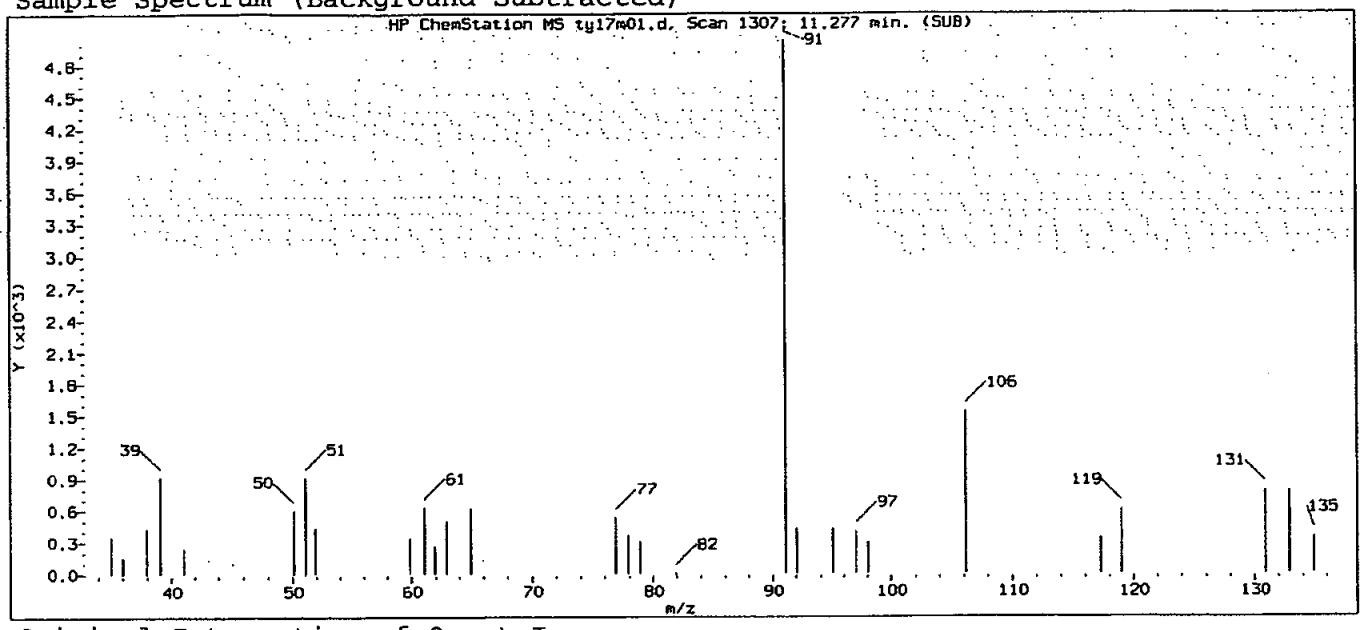
Compound Number : 114
Compound Name : Ethylbenzene
Scan Number : 1307
Retention Time (minutes): 11.277
Quant Ion : 106.00
Area (flag) : 2394M
On-Column Amount (ng) : 0.4474
Integration start scan : 1301 Integration stop scan: 1313
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

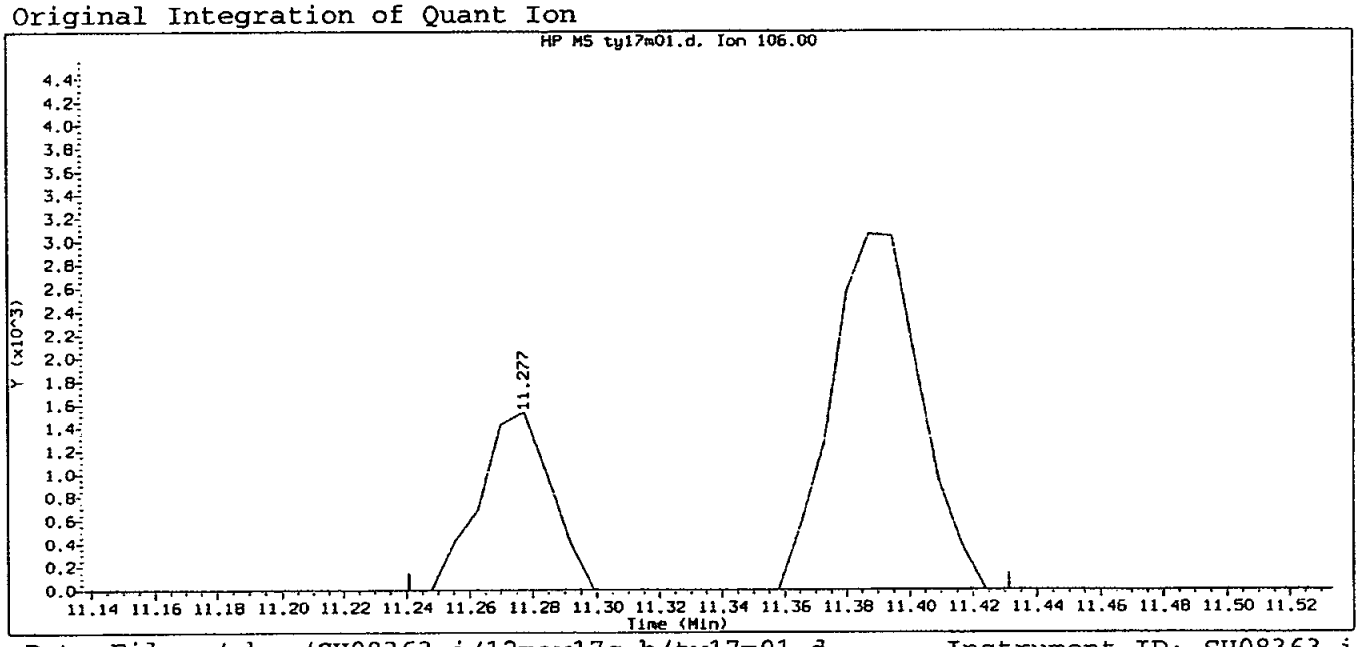
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:03. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

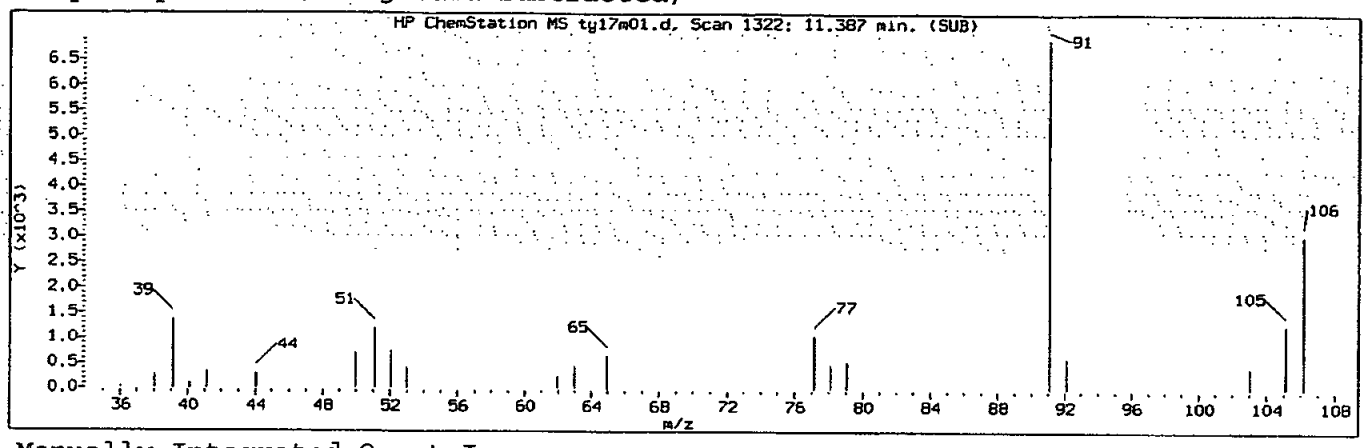
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

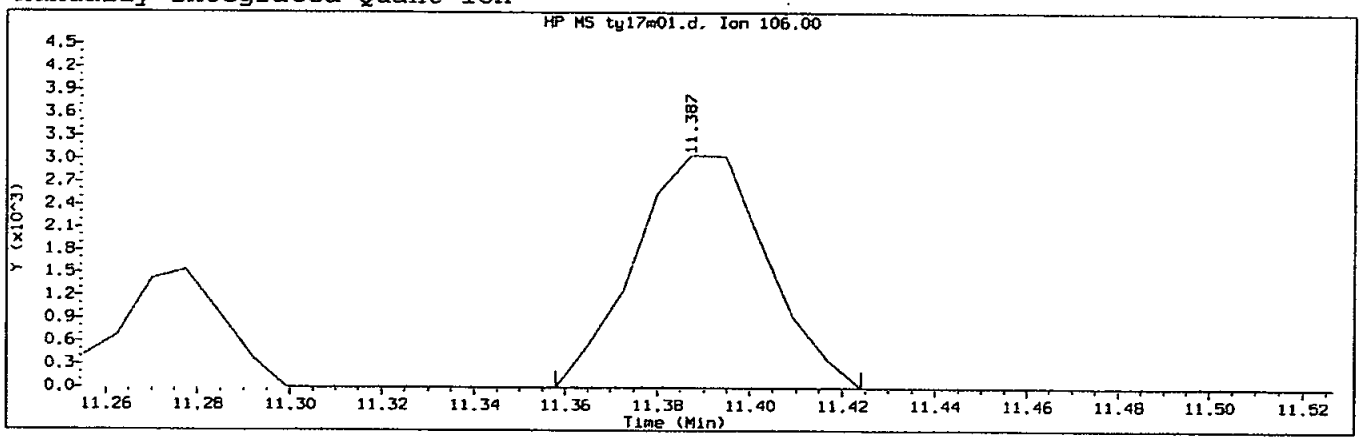
Compound Number	: 114		
Compound Name	: Ethylbenzene		
Scan Number	: 1307		
Retention Time (minutes)	: 11.277		
Quant Ion	: 106.00		
Area	: 8451		
On-column Amount (ng)	: 1.5778		
Integration start scan	: 1301	Integration stop scan:	1327
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Anita M. Dale on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

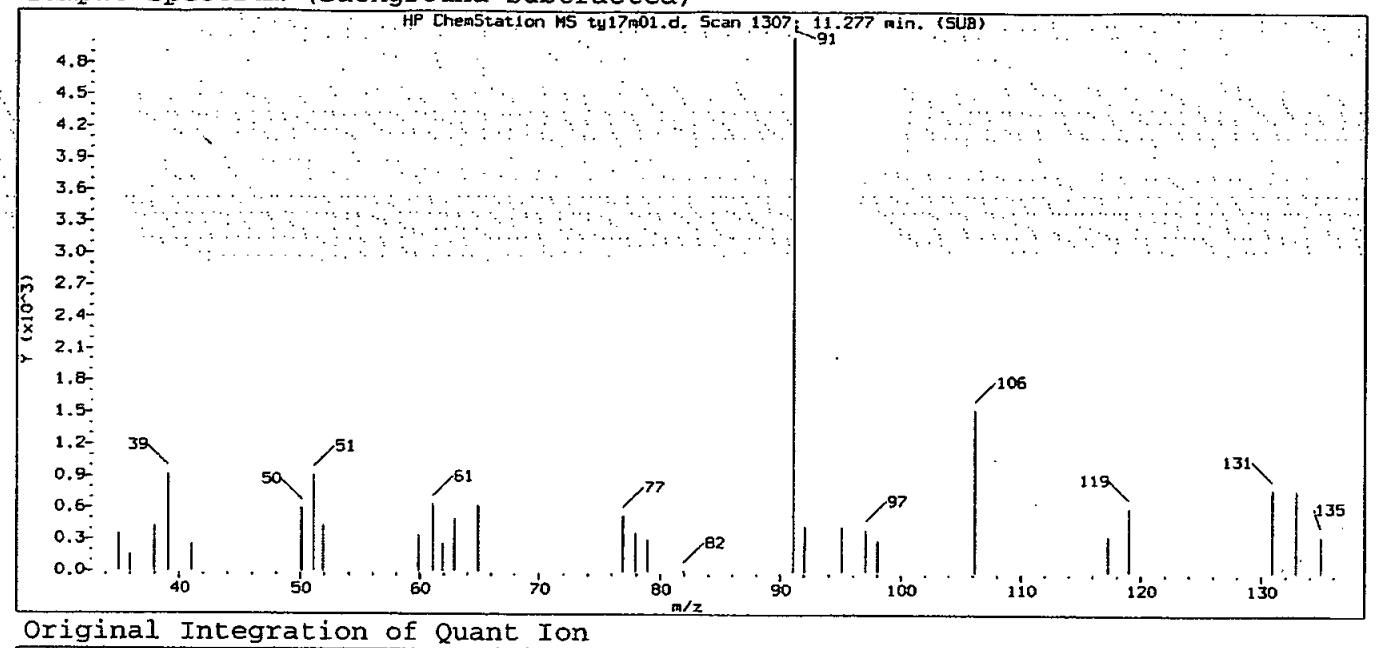
Compound Number	: 115		
Compound Name	: m+p-Xylene		
Scan Number	: 1322		
Retention Time (minutes)	: 11.387		
Quant Ion	: 106.00		
Area (flag)	: 6057M		
On-Column Amount (ng)	: 0.9118		
Integration start scan	: 1317	Integration stop scan:	1326
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

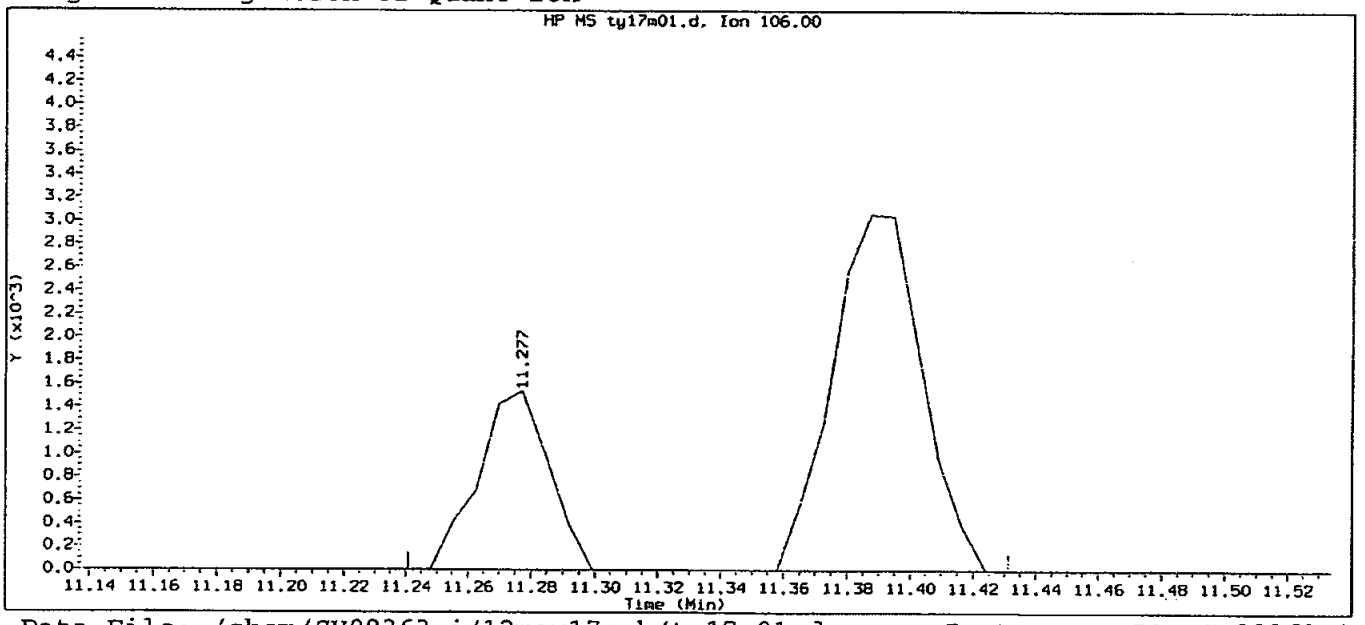
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:03. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

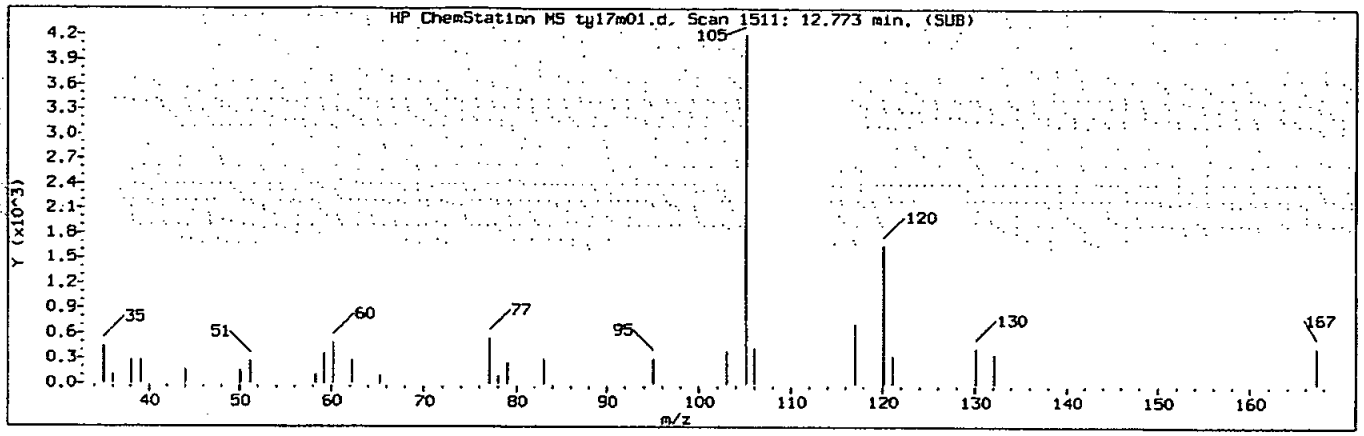
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

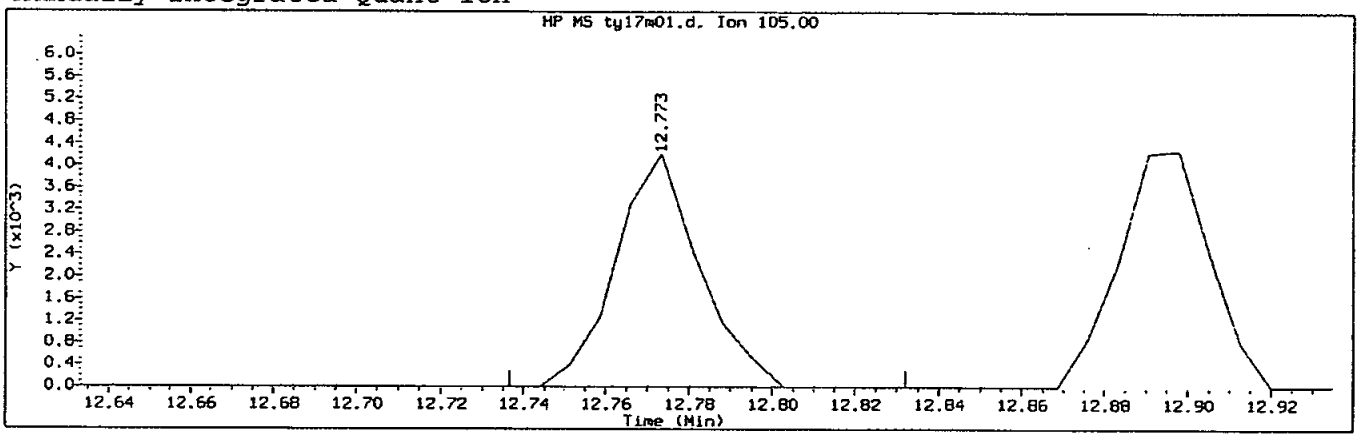
Compound Number	: 115		
Compound Name	: m+p-Xylene		
Scan Number	: 1307		
Retention Time (minutes)	: 11.277		
Quant Ion	: 106.00		
Area	: 8451		
On-column Amount (ng)	: 2.5167		
Integration start scan	: 1301	Integration stop scan:	1327
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Anita M. Dale on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

Compound Number : 137
Compound Name : 1,2,4-Trimethylbenzene
Scan Number : 1511
Retention Time (minutes): 12.773
Quant Ion : 105.00
Area (flag) : 5896M
On-Column Amount (ng) : 0.4597
Integration start scan : 1505 Integration stop scan: 1518
Y at integration start : 0 Y at integration end: 0

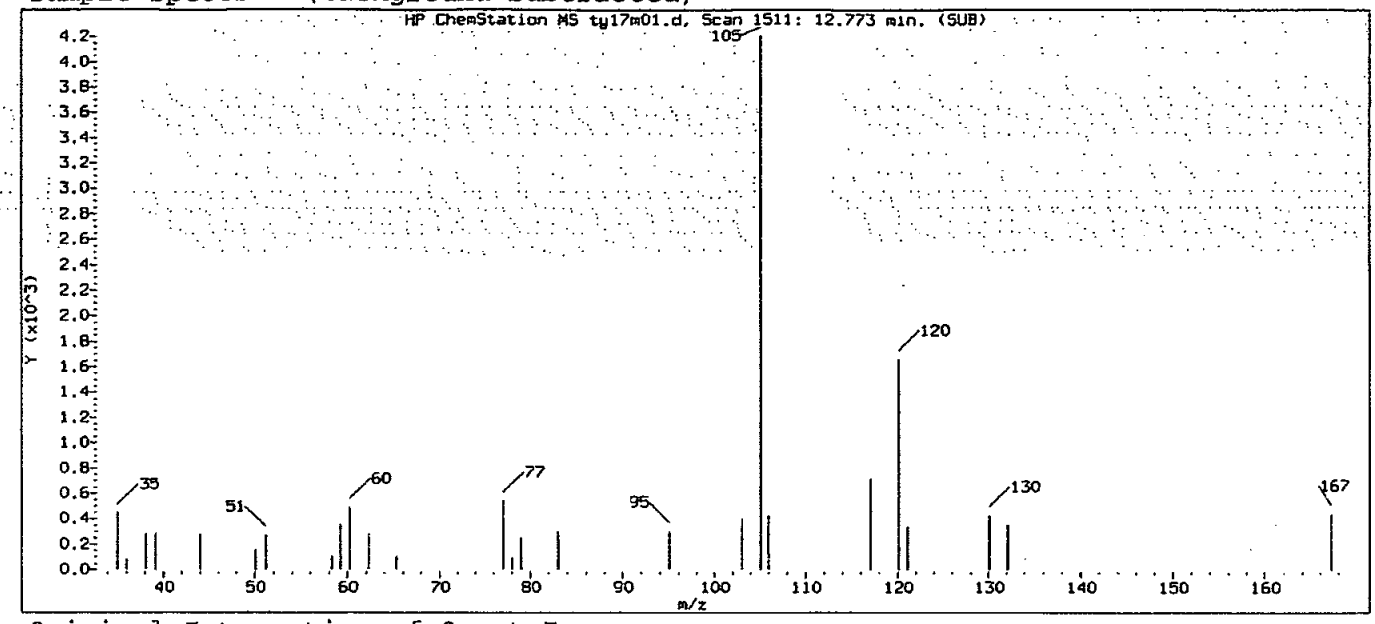
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:03. Target 3.5 esignature user ID: amd00492

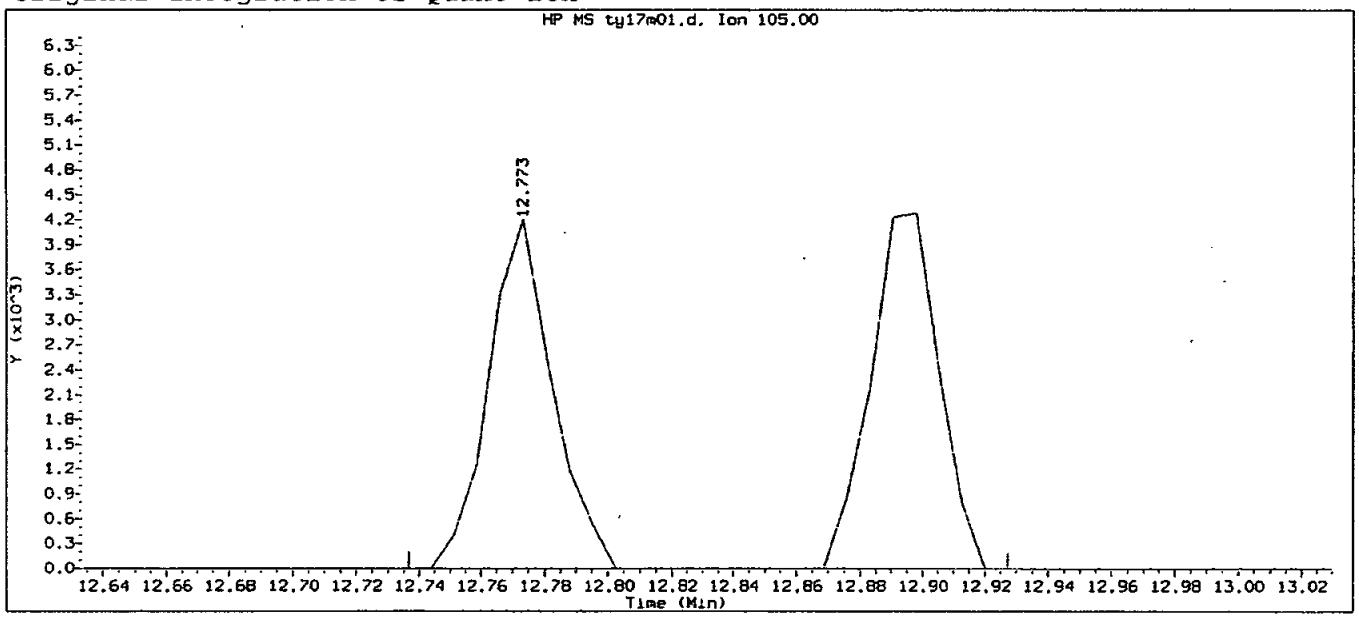
GC/MS audit/management approval: 5/21/12

ASX73 0412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

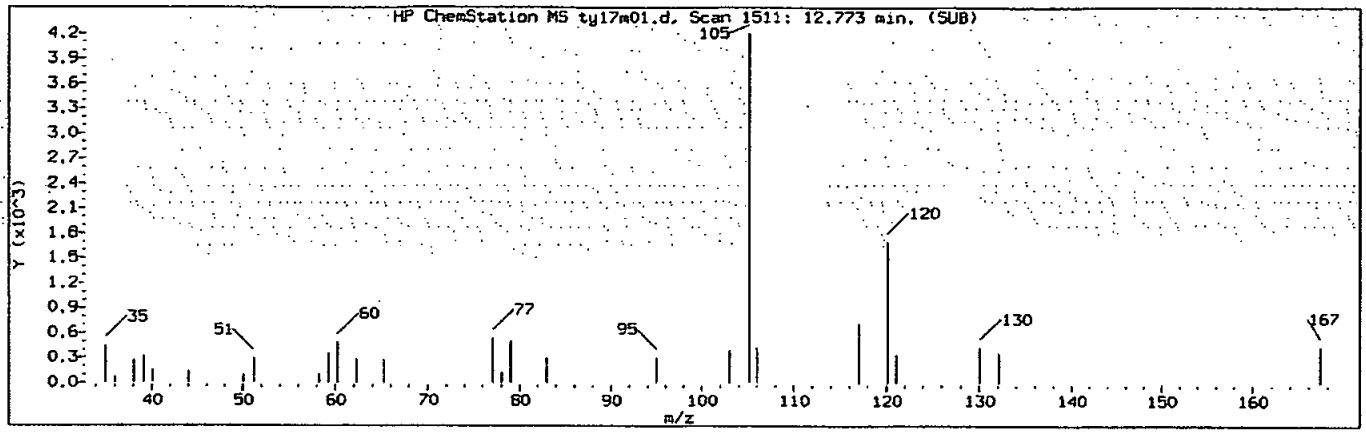
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

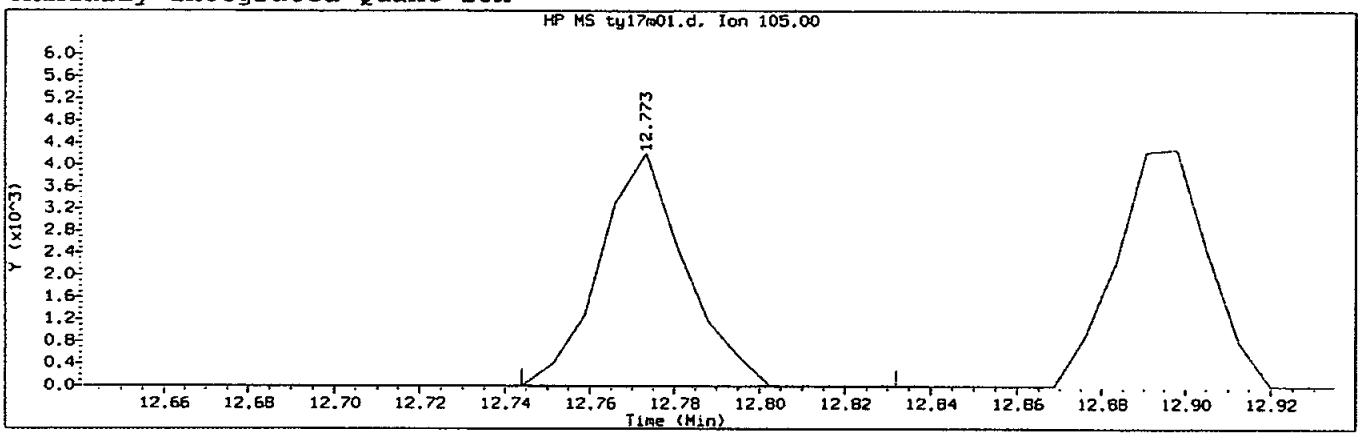
Compound Number : 137
Compound Name : 1,2,4-Trimethylbenzene
Scan Number : 1511
Retention Time (minutes): 12.773
Quant Ion : 105.00
Area : 12401
On-column Amount (ng) : 0.9630
Integration start scan : 1505 Integration stop scan: 1531
Y at integration start : 0 Y at integration end: 0

Digitally signed by Anita M. Dale on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

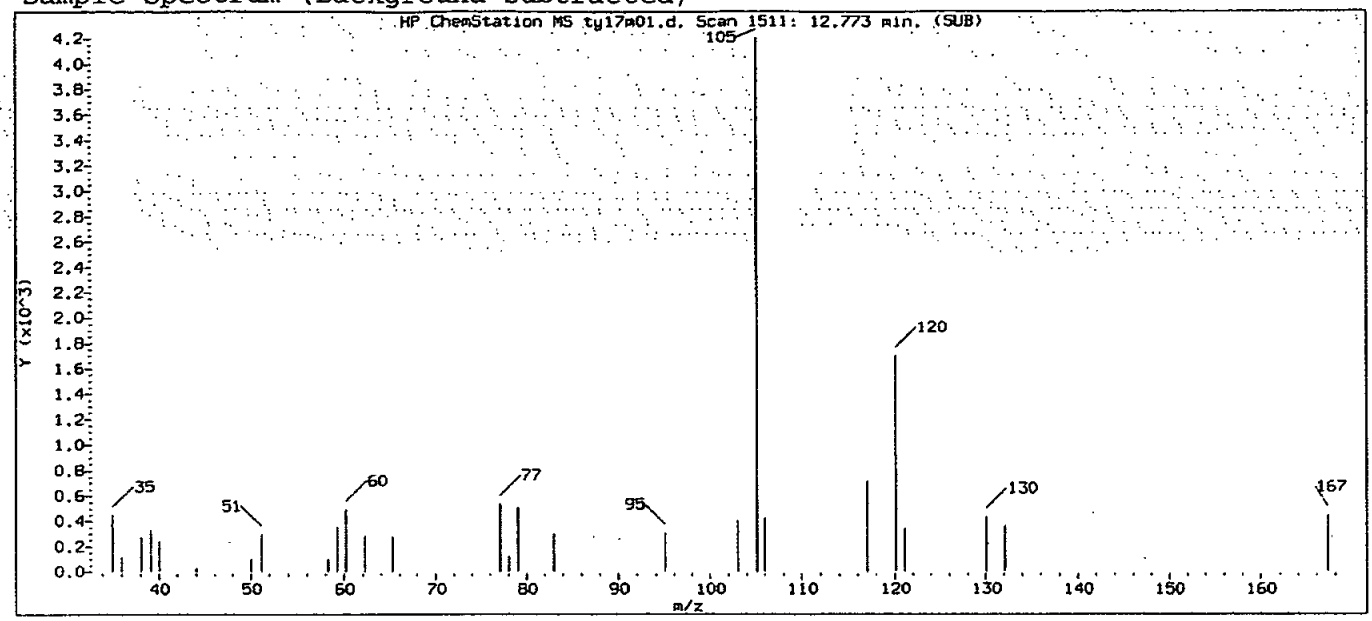
Compound Number	: 138		
Compound Name	: sec-Butylbenzene		
Scan Number	: 1511		
Retention Time (minutes)	: 12.773		
Quant Ion	: 105.00		
Area (flag)	: 5896M		
On-Column Amount (ng)	: 0.3928		
Integration start scan	: 1506	Integration stop scan:	1518
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

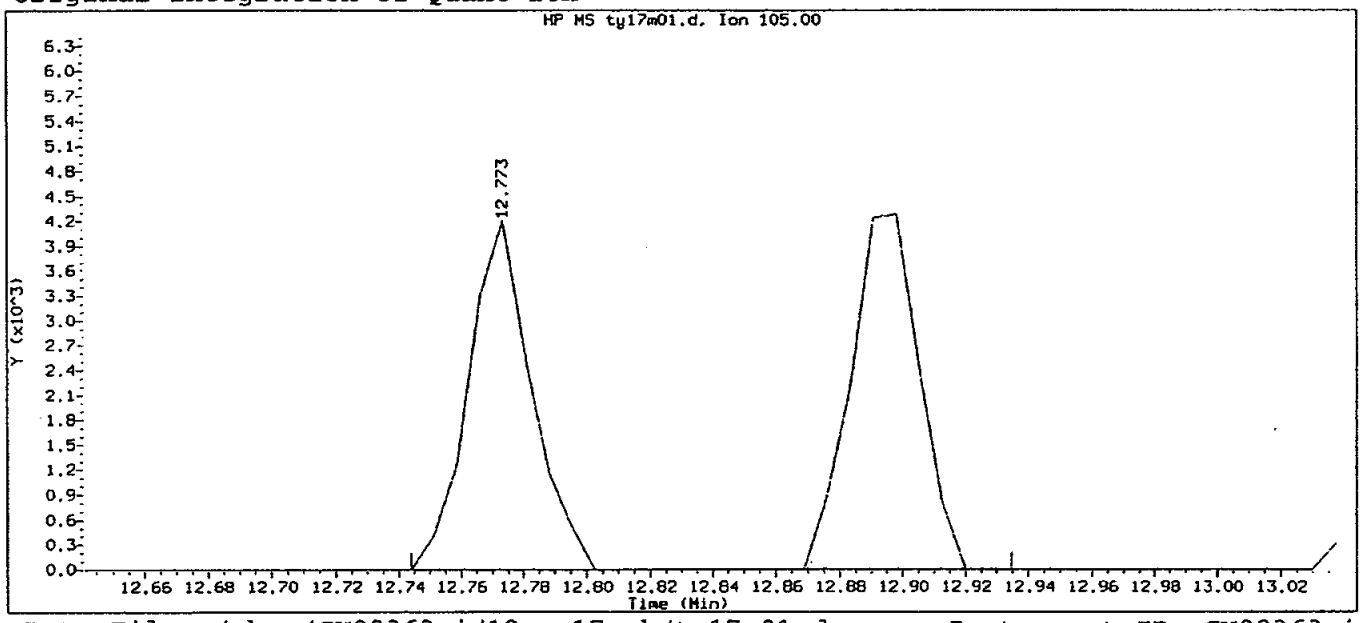
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:03. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

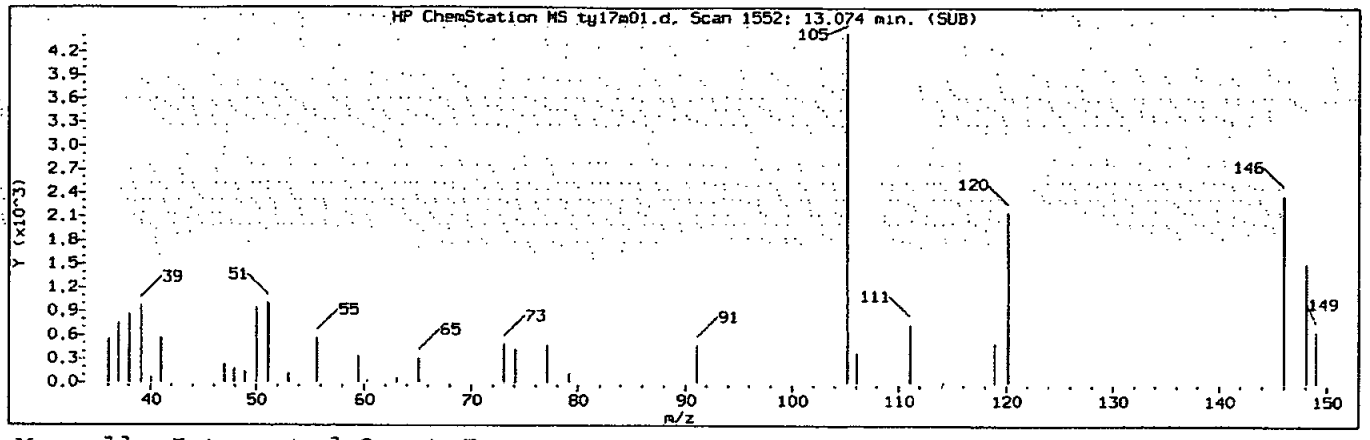
Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

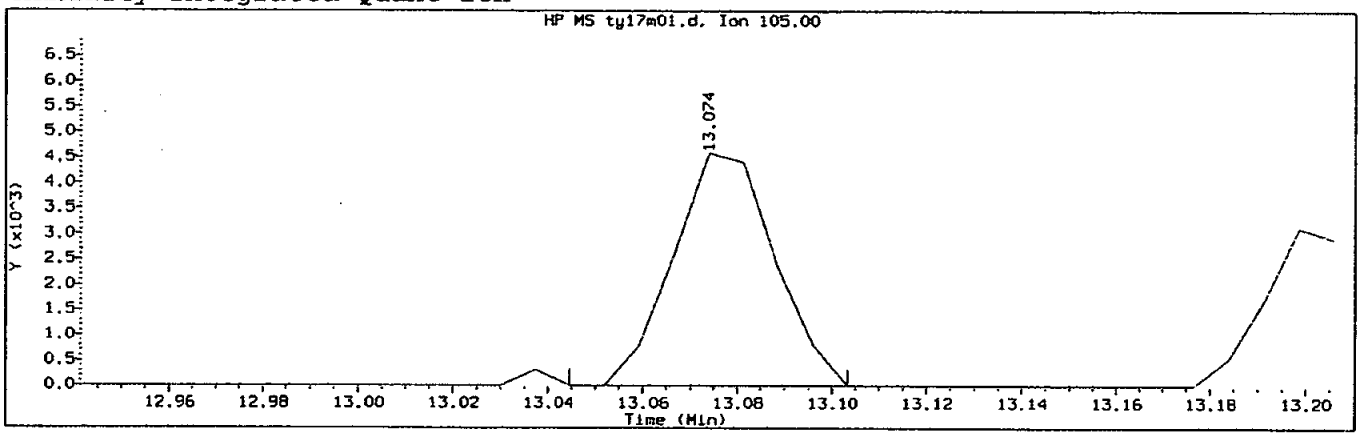
Compound Number	: 138		
Compound Name	: sec-Butylbenzene		
Scan Number	: 1511		
Retention Time (minutes)	: 12.773		
Quant Ion	: 105.00		
Area	: 12401		
On-column Amount (ng)	: 0.8260		
Integration start scan	: 1506	Integration stop scan:	1532
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Anita M. Dale on 05/21/2012 at 10:03.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

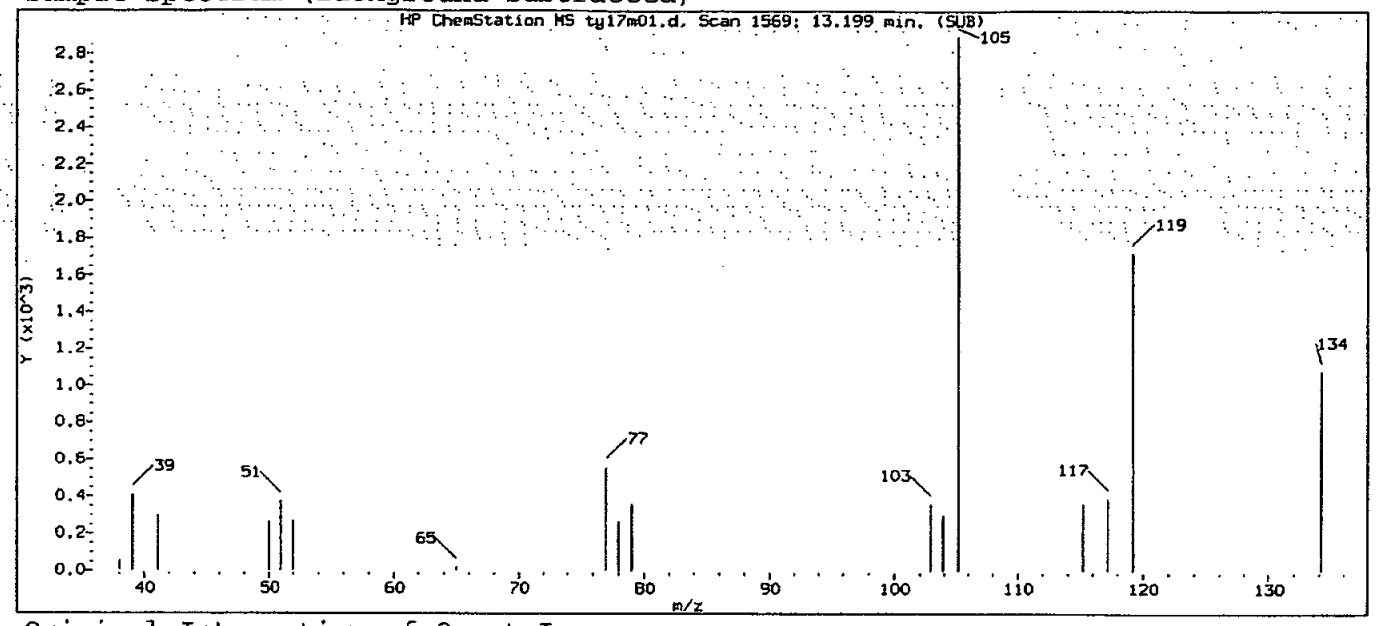
Compound Number : 143
Compound Name : 1,2,3-Trimethylbenzene
Scan Number : 1552
Retention Time (minutes): 13.074
Quant Ion : 105.00
Area (flag) : 6837M
On-Column Amount (ng) : 0.5000
Integration start scan : 1547 Integration stop scan: 1555
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

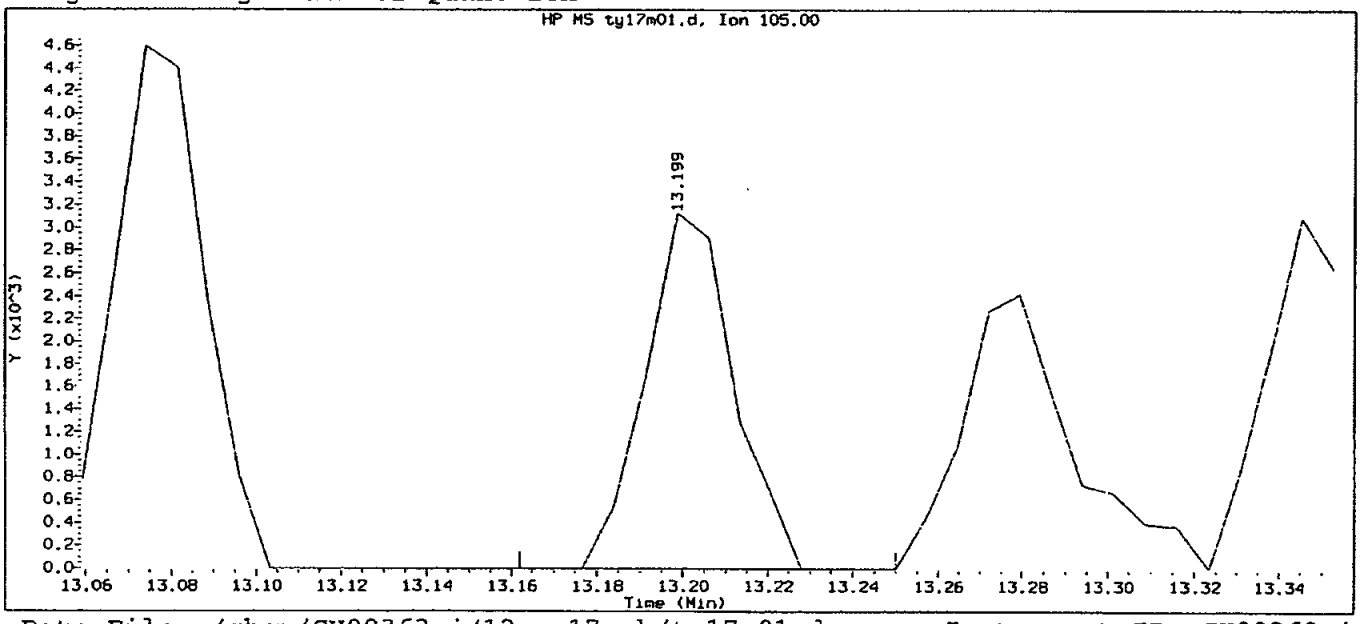
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:03. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

Compound Number : 143
Compound Name : 1,2,3-Trimethylbenzene
Scan Number : 1569
Retention Time (minutes): 13.199
Quant Ion : 105.00
Area : 4491
On-column Amount (ng) : 0.3233
Integration start scan : 1563 Integration stop scan: 1575
Y at integration start : 0 Y at integration end: 0

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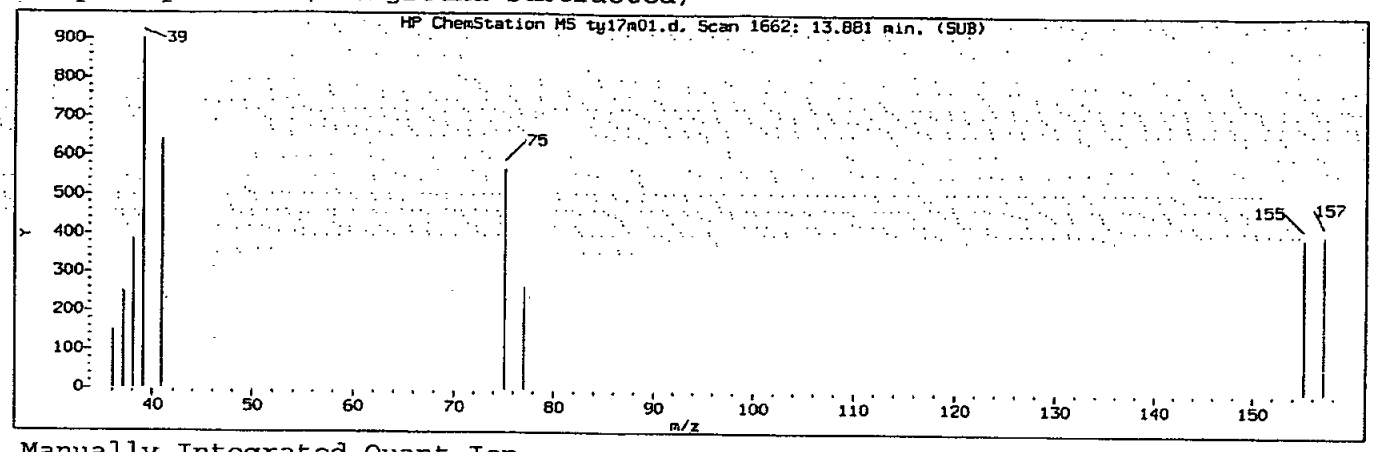
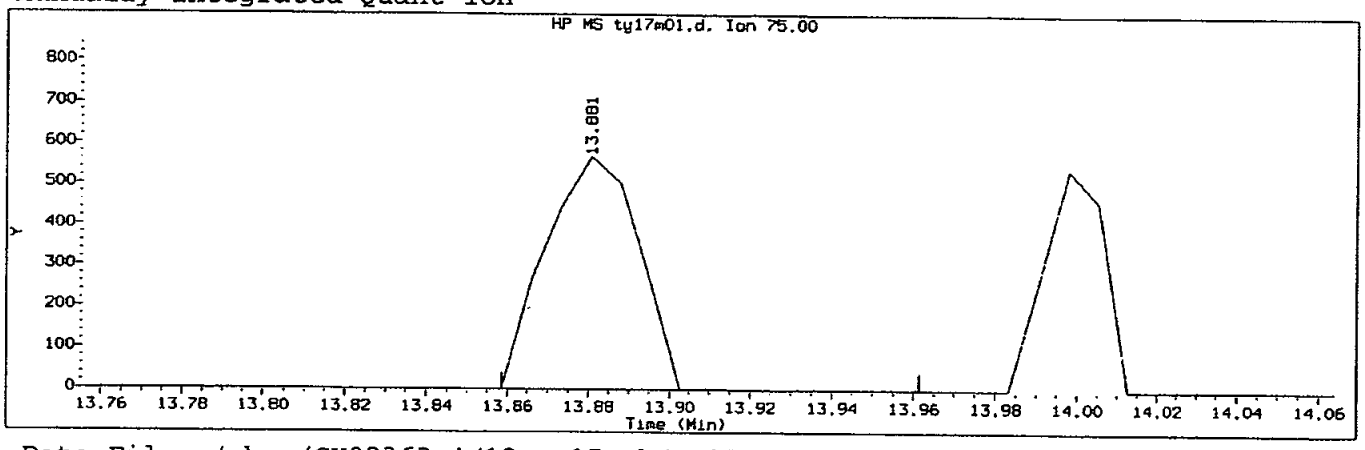
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:00
Date, time and analyst ID of latest file update: 21-May-2012 10:02 amd00492

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

Compound Number	: 151		
Compound Name	: 1,2-Dibromo-3-Chloropropane		
Scan Number	: 1662		
Retention Time (minutes)	: 13.881		
Quant Ion	: 75.00		
Area (flag)	: 897M		
On-Column Amount (ng)	: 0.5809		
Integration start scan	: 1658	Integration stop scan:	1672
Y at integration start	: 0	Y at integration end:	0

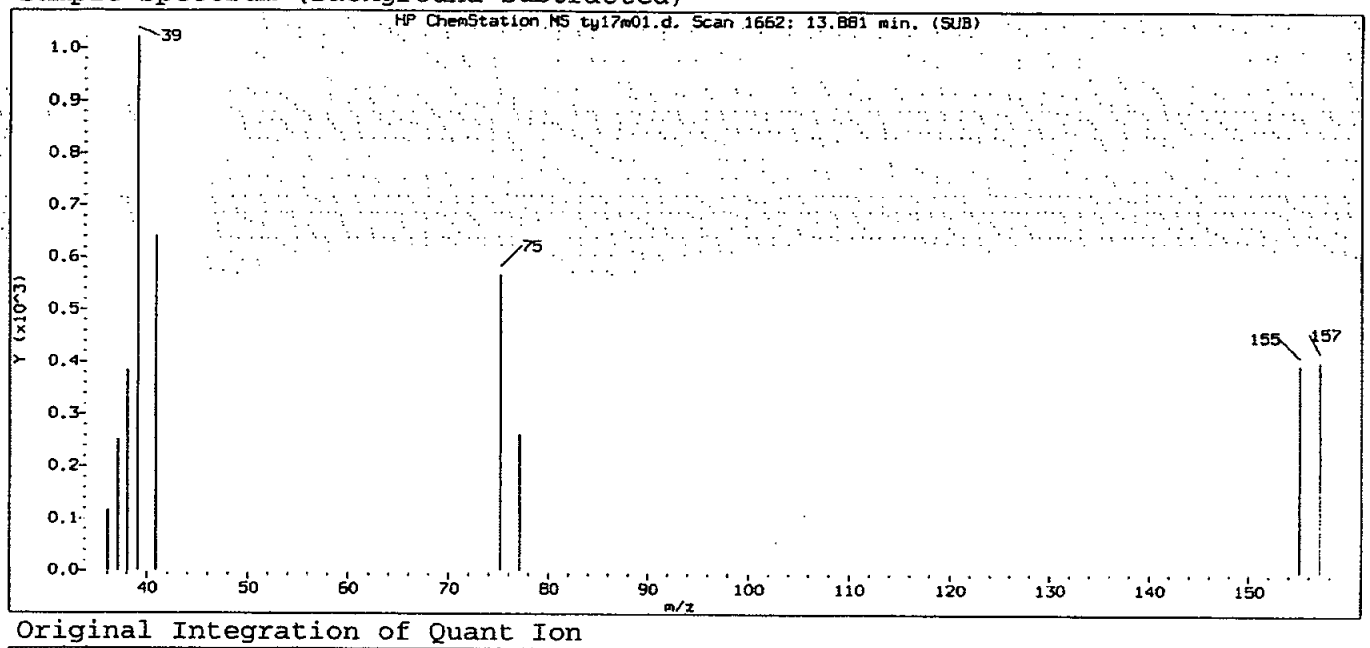
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:03. Target 3.5 esignature user ID: amd00492

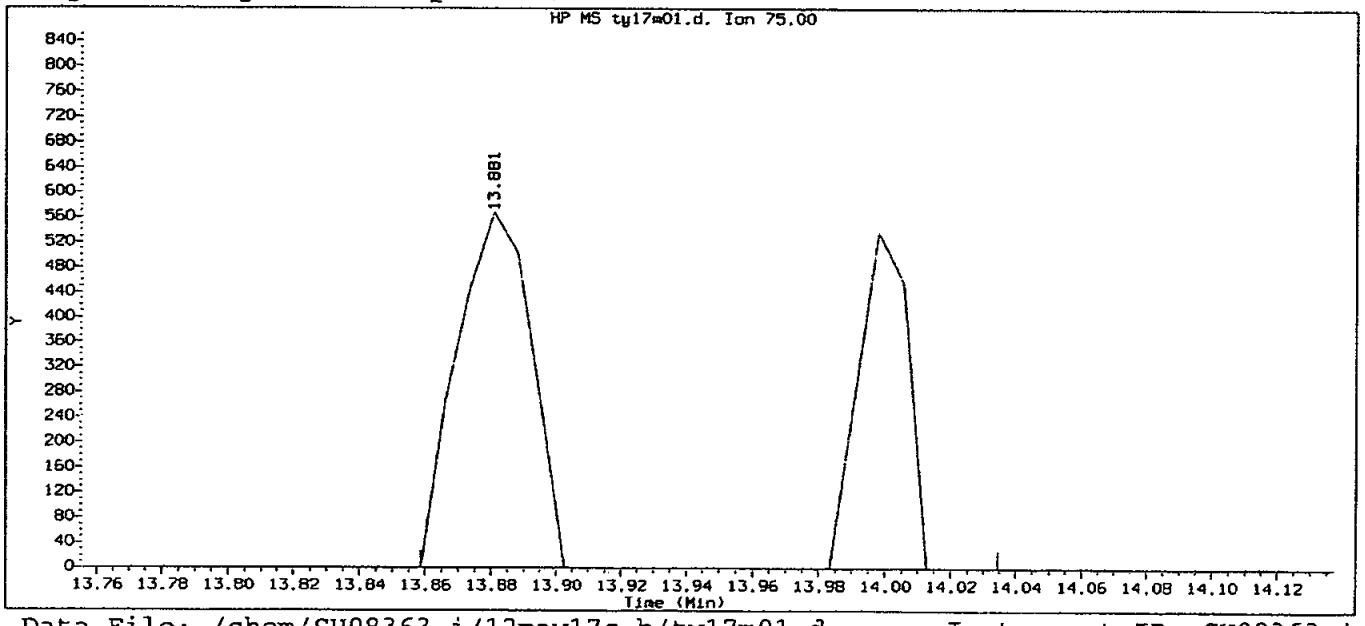
GC/MS audit/management approval: _____ 5/21/12

ASX73 0418

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may17c.b/ty17m01.d Instrument ID: SH08363.i
Injection date and time: 17-MAY-2012 16:22 Analyst ID: lcp00895

Method used: /chem/SH08363.i/12may17c.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 07:01
Date, time and analyst ID of latest file update: 18-May-2012 07:01 lcp00895

Sample Name: 0.5PPB MDL Lab Sample ID: 0.5PPB MDL

Compound Number : 151
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1662
Retention Time (minutes): 13.881
Quant Ion : 75.00
Area : 1452
On-column Amount (ng) : 0.7506
Integration start scan : 1658 Integration stop scan: 1682
Y at integration start : 0 Y at integration end: 0

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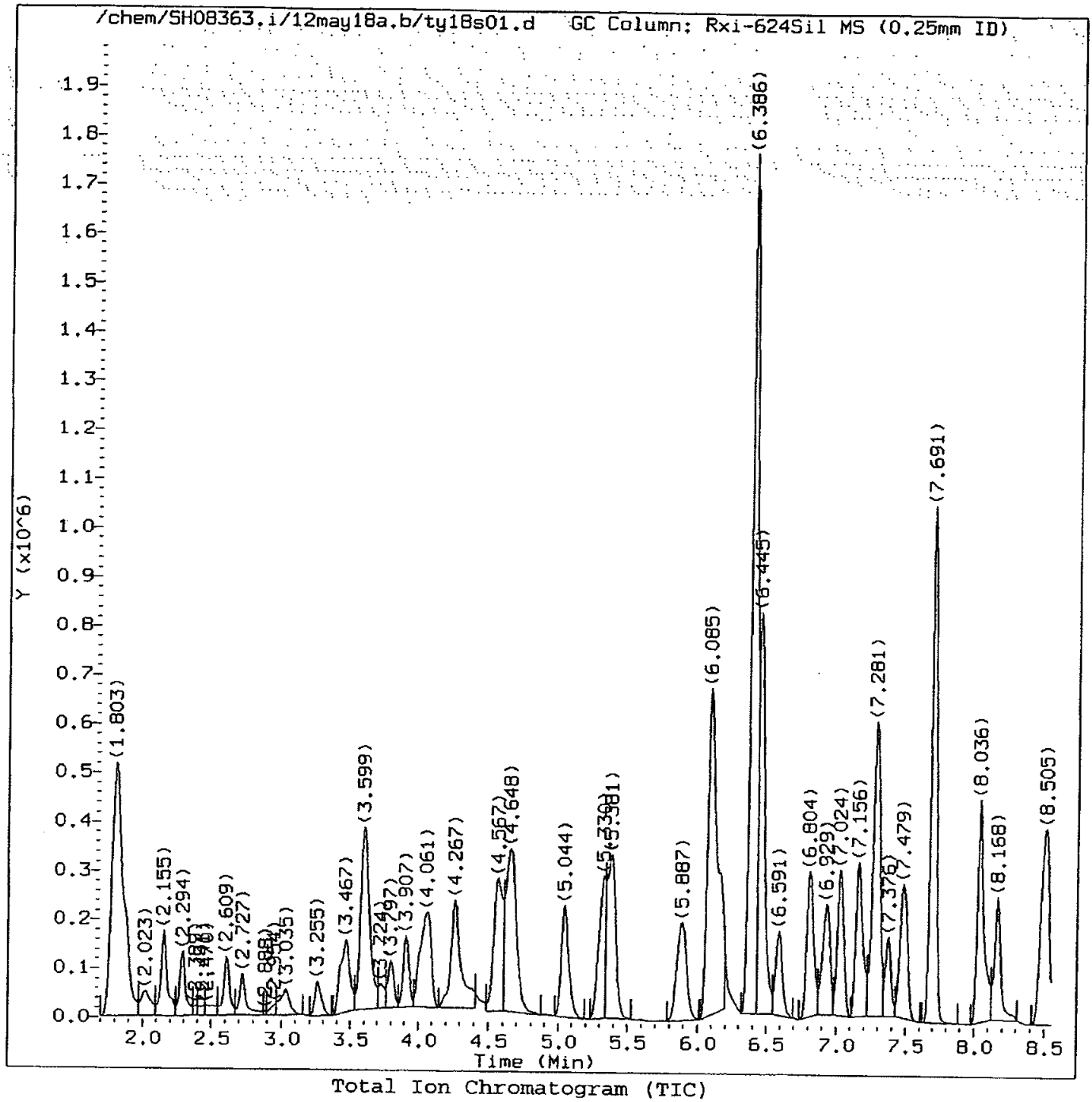
Target 3.5 esignature user ID: amd00492



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may18a.b/ty18s01.d
Injection date and time: 18-MAY-2012 12:36

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12may18a.b/T826W.m
Calibration date and time: 21-MAY-2012 10:08

Sublist used: 8260W-F

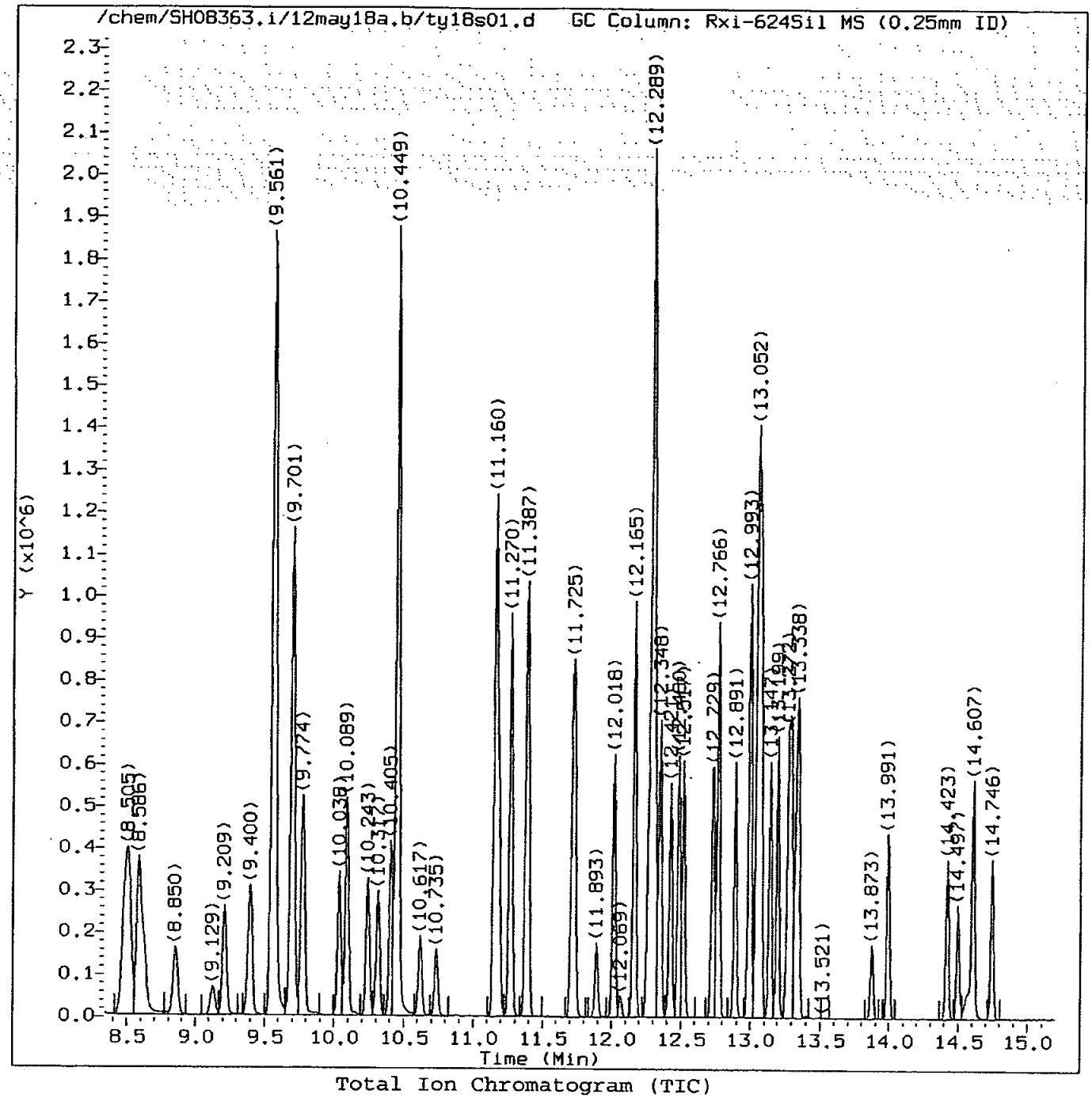
Date, time and analyst ID of latest file update: 21-May-2012 10:08 amd00492

Sample Name: LCST82

Lab Sample ID: LCST82

Digitally signed by Anita M. Dale
on 05/21/2012 at 10:09.
Target 3.5 esignature user ID: amd00492

ASX73 0420



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12may18a.b/ty18s01.d
Injection date and time: 18-MAY-2012 12:36

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12may18a.b/T826W.m
Calibration date and time: 21-MAY-2012 10:08

Sublist used: 8260W-F

Date, time and analyst ID of latest file update: 21-May-2012 10:08 amd00492

Sample Name: LCST82

Lab Sample ID: LCST82

Digitally signed by Anita M. Dale
on 05/21/2012 at 10:09.
Target 3.5 esignature user ID: amd00492

ASX73 0421

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may18a.b/ty18s01.d
Injection date and time: 18-MAY-2012 12:36

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12may18a.b/T826W.m
Calibration date and time: 21-MAY-2012 10:08

Sublist used: 8260W-F

Date, time and analyst ID of latest file update: 21-May-2012 10:08 amd00492

Sample Name: LCST82

Lab Sample ID: LCST82

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.023	85	93558	11.450
2) Chloromethane	(1)	2.155	50	247011	18.057
4) Vinyl Chloride	(1)	2.294	62	158693	18.223
7) Bromomethane	(1)	2.609	94	94358	18.442
8) Chloroethane	(1)	2.727	64	83698	18.006
13) Trichlorofluoromethane	(1)	3.035	101	104560	20.405
15) Ethyl Ether	(1)	3.255	59	63428	11.683
17) Acrolein	(4)	3.467	56	403474	126.957
21) Acetone	(1)	3.592	58	177389	153.785
18) 1,1-Dichloroethene	(1)	3.599	96	82119	22.575
19) Freon 113	(1)	3.614	101	82070	22.392
23) 2-Propanol	(4)	3.731	45	115592	121.192
22) Methyl Iodide	(1)	3.797	142	164940	22.511
24) Carbon Disulfide	(1)	3.907	76	343270	22.701
26) Methyl Acetate	(1)	4.003	43	357598	22.662
25) Allyl Chloride	(1)	4.069	41	360189	21.203
27) Methylene Chloride	(1)	4.267	84	115467	20.691
28)*t-Butyl Alcohol-d10	(4)	4.267	65	261974	250.000
29) t-Butyl Alcohol	(4)	4.391	59	235789M	197.725
30) Acrylonitrile	(1)	4.567	53	586953	106.486
32) trans-1,2-Dichloroethene	(1)	4.655	96	94459	21.922
31) Methyl Tertiary Butyl Ether	(1)	4.655	73	320477	22.217
34) n-Hexane	(1)	5.044	57	178093	22.782
36) 1,1-Dichloroethane	(1)	5.301	63	223273	21.614
41) 1,2-Dichloroethene (total)	(1)		96	198051	43.351
37) di-Isopropyl Ether	(1)	5.352	45	727354	21.756
40) 2-Chloro-1,3-Butadiene	(1)	5.396	53	216462	22.334
42) Ethyl t-Butyl Ether	(1)	5.895	59	419701	21.946
45) 2-Butanone	(1)	6.078	43	1650730	156.230
44) cis-1,2-Dichloroethene	(1)	6.115	96	103592	21.430
43) 2,2-Dichloropropane	(1)	6.151	77	114683	21.666
46) Propionitrile	(4)	6.173	54	346558	151.204
47) Methacrylonitrile	(1)	6.386	67	633798	159.926
49) Bromochloromethane	(1)	6.445	128	52827	20.507
50) Tetrahydrofuran	(4)	6.452	71	152121	97.933
52) Chloroform	(1)	6.591	83	174922	20.251
54)$Dibromofluoromethane	(1)	6.804	113	235748	50.604
55) 1,1,1-Trichloroethane	(1)	6.826	97	101311	21.103

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 05/21/2012 at 10:09.
Target 3.5 esignature user ID: amd00492

ASX73 0422

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may18a.b/ty18s01.d
Injection date and time: 18-MAY-2012 12:36

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12may18a.b/T826W.m
Calibration date and time: 21-MAY-2012 10:08

Sublist used: 8260W-F

Date, time and analyst ID of latest file update: 21-May-2012 10:08 amd00492

Sample Name: LCST82

Lab Sample ID: LCST82

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
58) Cyclohexane	(1)	6.929	56	224693	22.022
59) 1,1-Dichloropropene	(1)	7.024	75	138386	21.645
60) Carbon Tetrachloride	(1)	7.031	117	83071	22.126
61) Isobutyl Alcohol	(4)	7.156	41	383063	491.218
62)$1,2-Dichloroethane-d4	(1)	7.266	102	56938	50.393
65) Benzene	(1)	7.288	78	401946	21.318
66) 1,2-Dichloroethane	(1)	7.376	62	155536	21.414
68) t-Amyl Methyl Ether	(1)	7.479	73	314195	21.655
70)*Fluorobenzene	(1)	7.691	96	818034	50.000
69) n-Heptane	(1)	7.691	43	265426	21.542
73) n-Butanol	(4)	8.036	56	437875	963.687
74) Trichloroethene	(1)	8.168	95	93749	21.482
76) Methylcyclohexane	(1)	8.483	83	134458	20.323
79) 1,2-Dichloropropane	(1)	8.513	63	130981	21.096
81) Methyl Methacrylate	(1)	8.579	69	121831	21.654
82) 1,4-Dioxane	(4)	8.593	88	35918M	514.266
80) Dibromomethane	(1)	8.623	93	82700	21.397
83) Bromodichloromethane	(1)	8.850	83	124785	21.248
84) 2-Nitropropane	(1)	9.129	41	59355	18.260
85) 2-Chloroethyl Vinyl Ether	(1)	9.209	63	111870	20.311
87) cis-1,3-Dichloropropene	(1)	9.400	75	170399	21.977
88) 4-Methyl-2-Pentanone	(1)	9.561	58	559484	97.528
90)$Toluene-d8	(2)	9.701	98	748419	51.076
93) Toluene	(2)	9.774	92	214184	21.085
96) trans-1,3-Dichloropropene	(2)	10.038	75	151188	21.215
97) Ethyl Methacrylate	(2)	10.089	69	206065	23.036
98) 1,1,2-Trichloroethane	(2)	10.243	97	94661	21.117
99) Tetrachloroethene	(2)	10.317	166	87060	21.651
100) 1,3-Dichloropropane	(2)	10.405	76	186183	21.145
101) 2-Hexanone	(2)	10.449	58	622598	94.989
103) Dibromochloromethane	(2)	10.617	129	90966	20.016
104) 1,2-Dibromoethane	(2)	10.735	107	111866	21.697
107)*Chlorobenzene-d5	(2)	11.160	117	536669	50.000
108) Chlorobenzene	(2)	11.182	112	224385	21.132
111) 1,1,1,2-Tetrachloroethane	(2)	11.270	131	71255	21.177
114) Ethylbenzene	(2)	11.270	106	108947	20.496
116) Xylene (Total)	(2)		106	407505	62.389
115) m+p-Xylene	(2)	11.387	106	274746	41.633

M = Compound was manually integrated.
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on 05/21/2012 at 10:09
Target 3.5 esignature user ID: amd00492

ASX73 0423

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12may18a.b/ty18s01.d Instrument ID: SH08363.i
Injection date and time: 18-MAY-2012 12:36 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12may18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:08
Date, time and analyst ID of latest file update: 21-May-2012 10:08 amd00492

Sample Name: LCST82 Lab Sample ID: LCST82

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
117) o-Xylene	(2)	11.717	106	132759	20.756
119) Styrene	(2)	11.732	104	231892	20.780
120) Bromoform	(2)	11.893	173	73779	19.631
121) Isopropylbenzene	(2)	12.018	105	319390	21.637
124)$4-Bromofluorobenzene	(2)	12.165	95	309040	50.979
126) 1,1,2,2-Tetrachloroethane	(3)	12.267	83	192522	20.712
127) Bromobenzene	(3)	12.282	156	97693	20.625
129) trans-1,4-Dichloro-2-Butene	(3)	12.297	53	368078	112.293
128) 1,2,3-Trichloropropane	(3)	12.311	110	40113	20.749
130) n-Propylbenzene	(3)	12.348	91	452596	22.053
131) 2-Chlorotoluene	(3)	12.421	126	81458	20.510
132) 1,3,5-Trimethylbenzene	(3)	12.480	105	271632	21.253
133) 4-Chlorotoluene	(3)	12.517	126	84919	20.088
134) tert-Butylbenzene	(3)	12.722	134	58282	21.989
135) Pentachloroethane	(3)	12.759	167	51834	19.441
137) 1,2,4-Trimethylbenzene	(3)	12.766	105	281460	21.273
138) sec-Butylbenzene	(3)	12.891	105	332760	21.493
139) 1,3-Dichlorobenzene	(3)	12.986	146	165601	20.487
140) p-Isopropyltoluene	(3)	13.001	119	267552	21.346
141)*1,4-Dichlorobenzene-d4	(3)	13.045	152	270669	50.000
142) 1,4-Dichlorobenzene	(3)	13.067	146	169640	20.290
143) 1,2,3-Trimethylbenzene	(3)	13.074	105	289092	20.496
144) Benzyl Chloride	(3)	13.147	91	330581	27.824
145) 1,3-Diethylbenzene	(3)	13.199	119	154945	19.824
146) 1,4-Diethylbenzene	(3)	13.272	119	163341	20.149
147) n-Butylbenzene	(3)	13.294	92	183423	21.290
148) 1,2-Dichlorobenzene	(3)	13.323	146	156820	20.098
149) 1,2-Diethylbenzene	(3)	13.345	119	130675	20.049
151) 1,2-Dibromo-3-Chloropropane	(3)	13.873	75	32249M	20.247
153) 1,3,5-Trichlorobenzene	(3)	13.991	180	113297	20.655
154) 1,2,4-Trichlorobenzene	(3)	14.416	180	100030	20.492
155) Hexachlorobutadiene	(3)	14.497	225	45549	21.558
156) Naphthalene	(3)	14.607	128	301601	20.396
157) 1,2,3-Trichlorobenzene	(3)	14.746	180	96997	20.718

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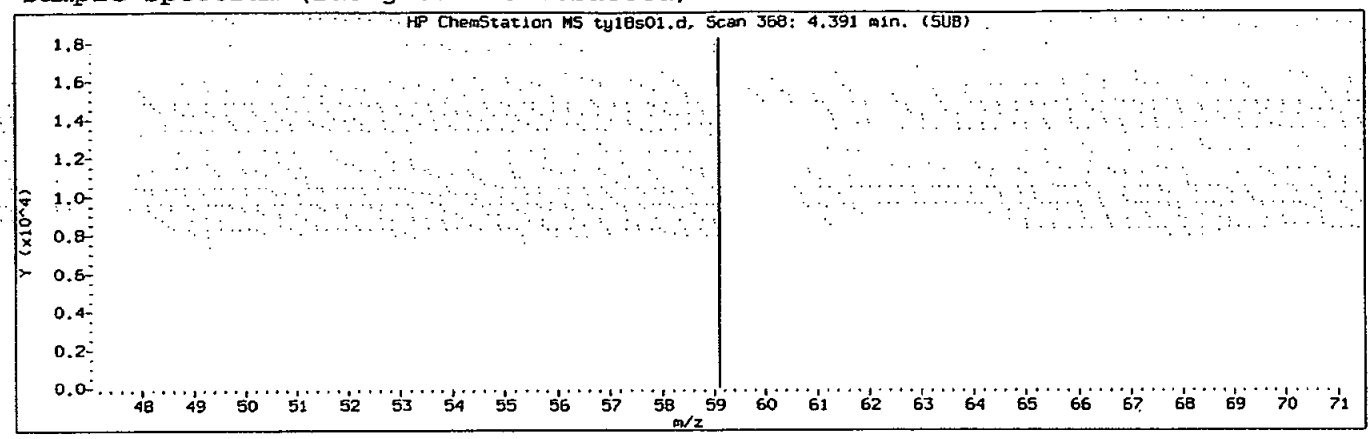
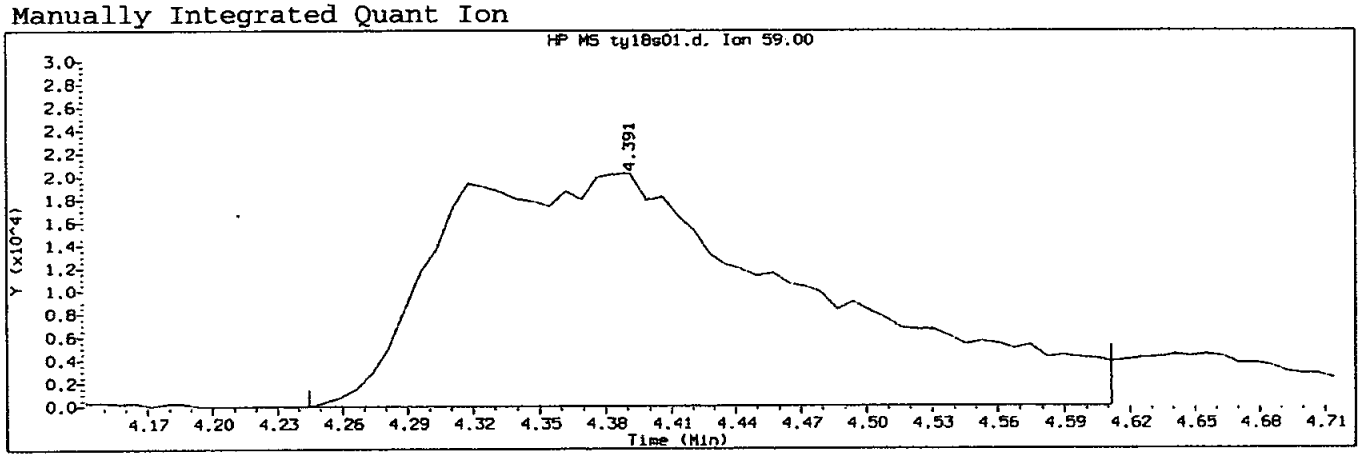
on 05/21/2012 at 10:09.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may18a.b/ty18s01.d Instrument ID: SH08363.i
Injection date and time: 18-MAY-2012 12:36 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12may18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:08
Date, time and analyst ID of latest file update: 21-May-2012 10:08 amd00492

Sample Name: LCST82 Lab Sample ID: LCST82

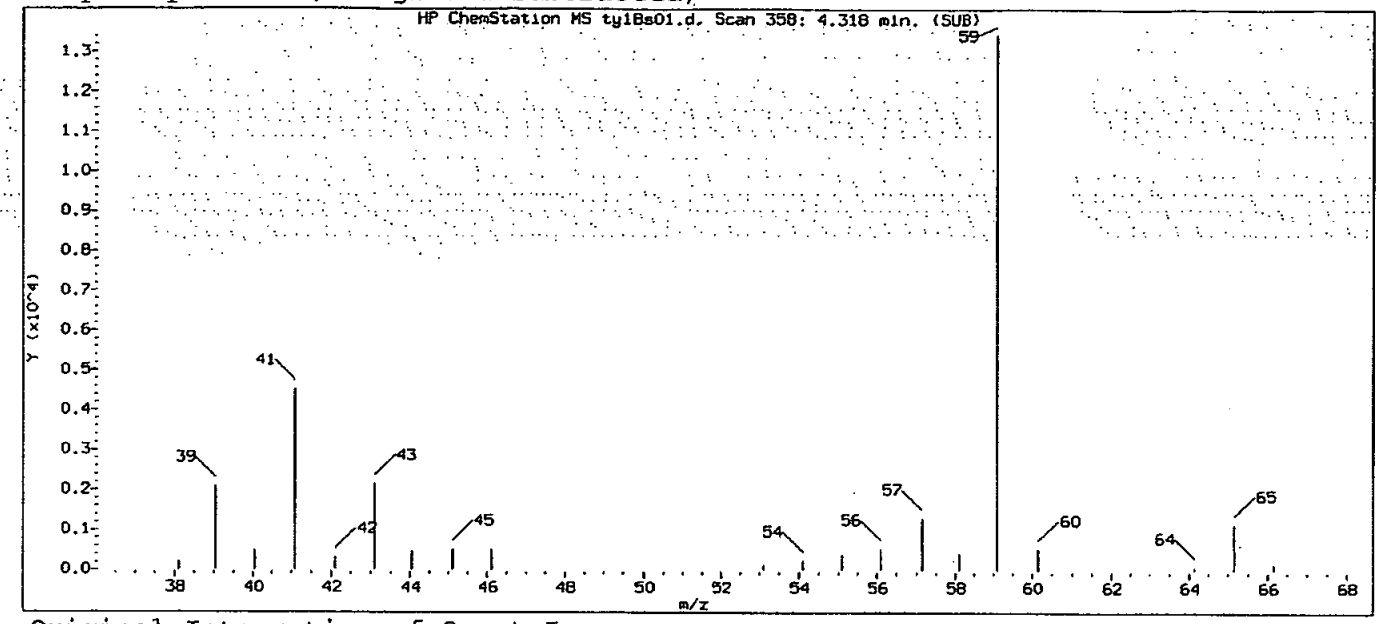
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 368		
Retention Time (minutes)	: 4.391		
Quant Ion	: 59.00		
Area (flag)	: 235789M		
On-Column Amount (ng)	: 197.7250		
Integration start scan	: 347	Integration stop scan:	397
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

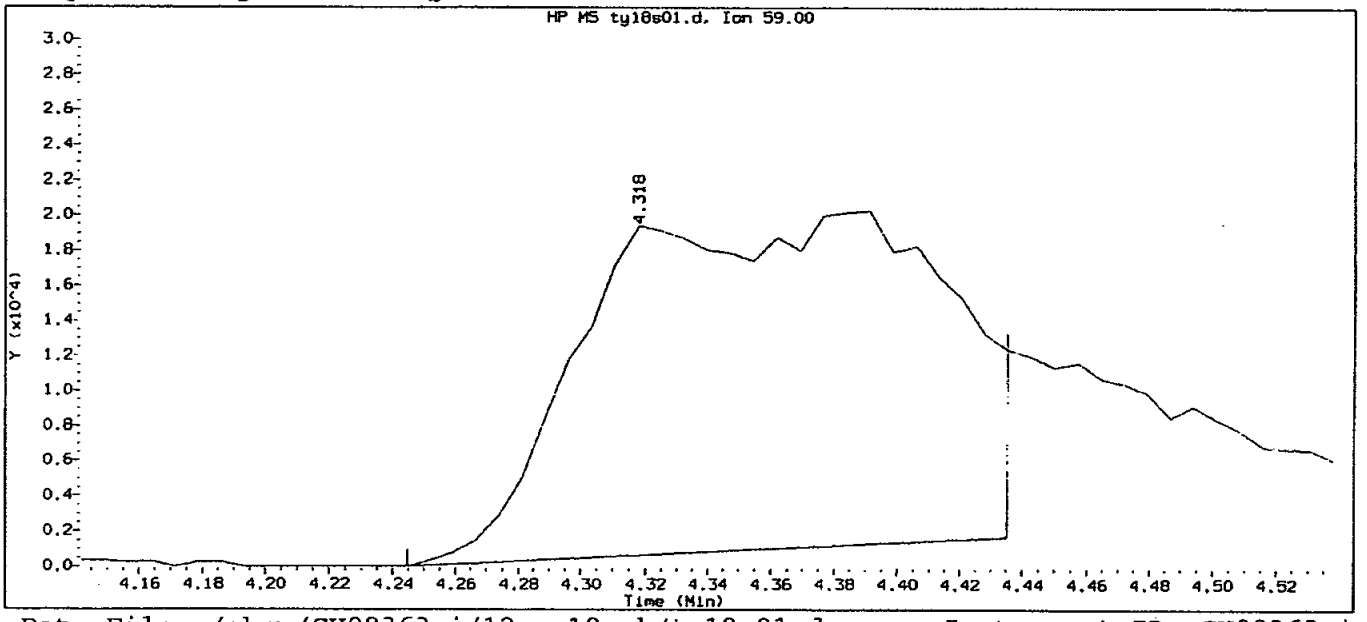
Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:09. Target 3.5 esignature user ID: amd00492

GC/MS audit/management approval: _____ 5/21/12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may18a.b/ty18s01.d Instrument ID: SH08363.i
Injection date and time: 18-MAY-2012 12:36 Analyst ID: LCP00895

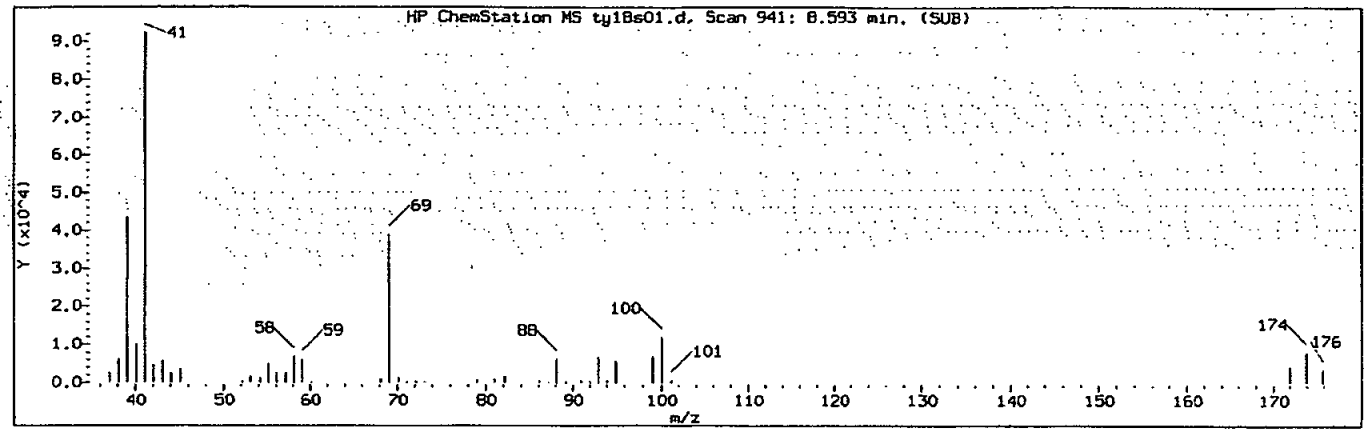
Method used: /chem/SH08363.i/12may18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 12:55
Date, time and analyst ID of latest file update: 18-May-2012 13:12 lcp00895

Sample Name: LCST82 Lab Sample ID: LCST82

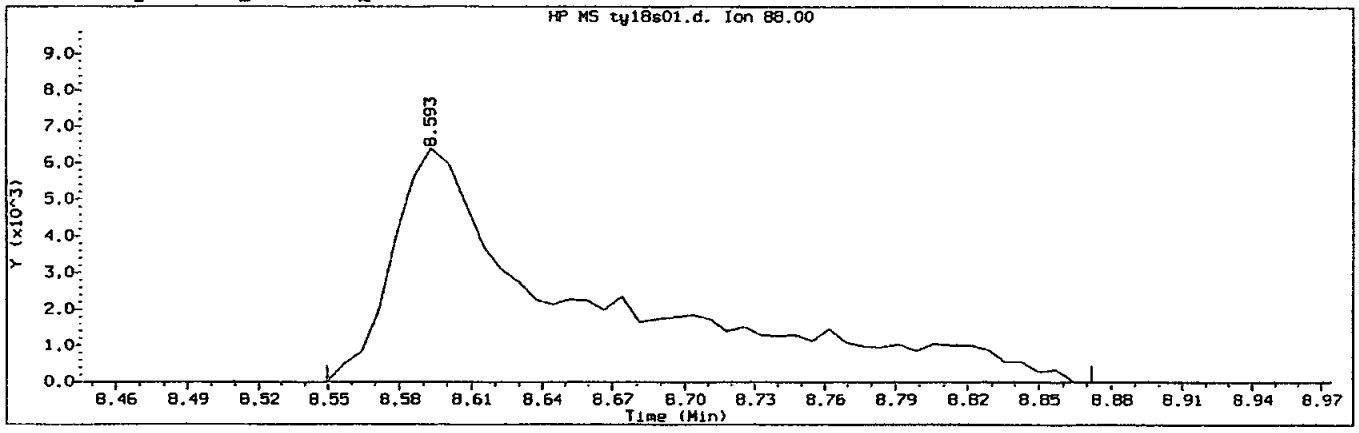
Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 358
Retention Time (minutes): 4.318
Quant Ion : 59.00
Area : 147232
On-column Amount (ng) : 123.4641
Integration start scan : 347 Integration stop scan: 373
Y at integration start : 0 Y at integration end: 1688

Digitally signed by Anita M. Dale on 05/21/2012 at 10:09.
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may18a.b/ty18s01.d Instrument ID: SH08363.i
Injection date and time: 18-MAY-2012 12:36 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12may18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:08
Date, time and analyst ID of latest file update: 21-May-2012 10:08 amd00492

Sample Name: LCST82 Lab Sample ID: LCST82

Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 941		
Retention Time (minutes)	: 8.593		
Quant Ion	: 88.00		
Area (flag)	: 35918M		
On-Column Amount (ng)	: 514.2661		
Integration start scan	: 934	Integration stop scan:	978
Y at integration start	: 0	Y at integration end:	0

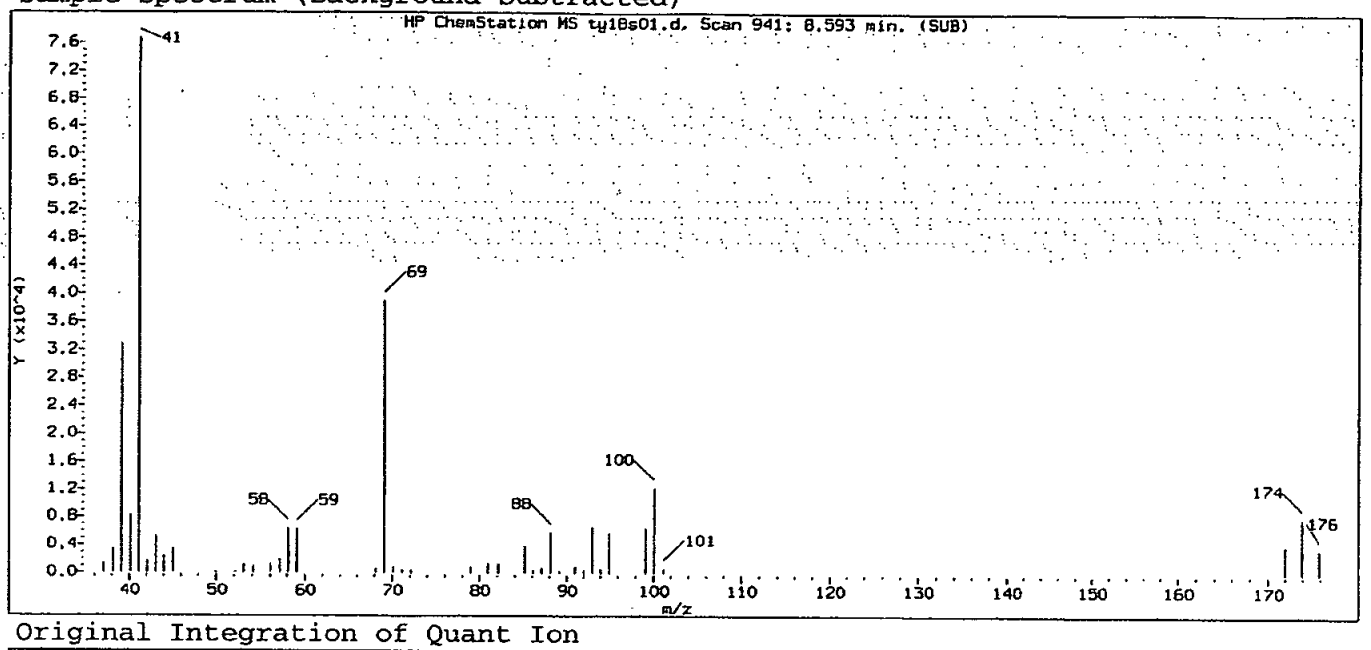
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:09. Target 3.5 esignature user ID: amd00492

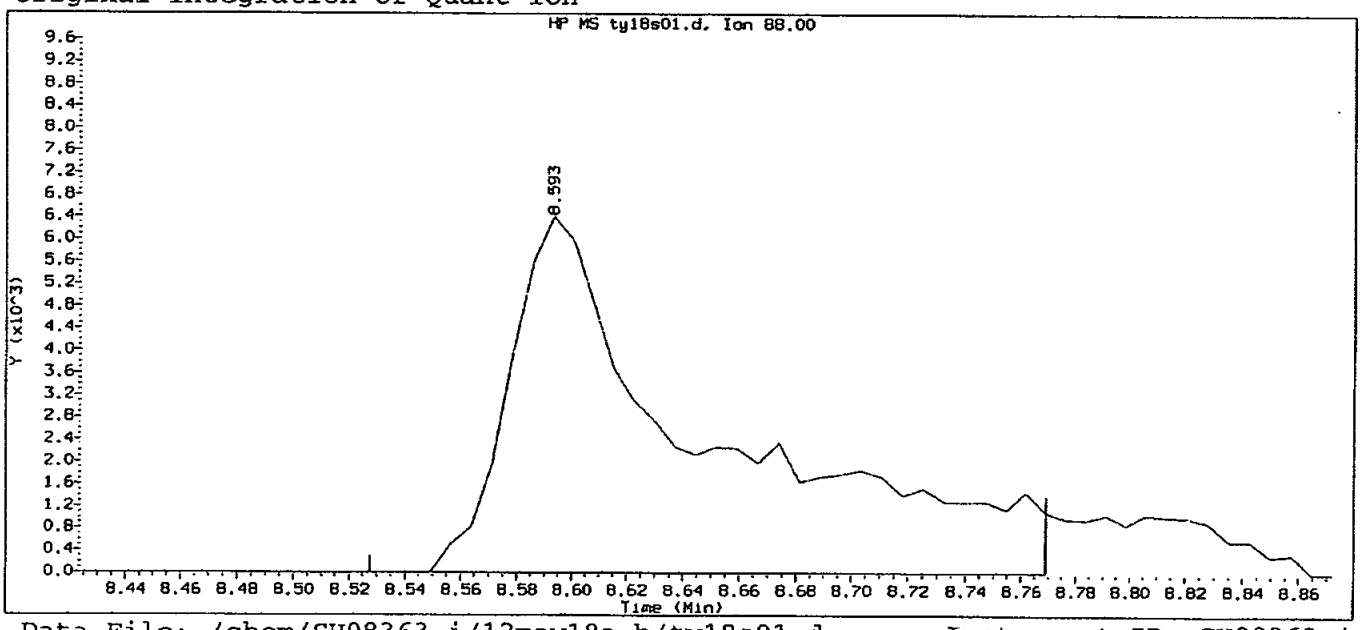
GC/MS audit/management approval: _____

ASX73 0427

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may18a.b/ty18s01.d Instrument ID: SH08363.i
Injection date and time: 18-MAY-2012 12:36 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12may18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 12:55
Date, time and analyst ID of latest file update: 18-May-2012 13:12 lcp00895

Sample Name: LCST82 Lab Sample ID: LCST82

Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 941		
Retention Time (minutes)	: 8.593		
Quant Ion	: 88.00		
Area	: 31450		
On-column Amount (ng)	: 450.3040		
Integration start scan	: 931	Integration stop scan:	964
Y at integration start	: 0	Y at integration end:	0

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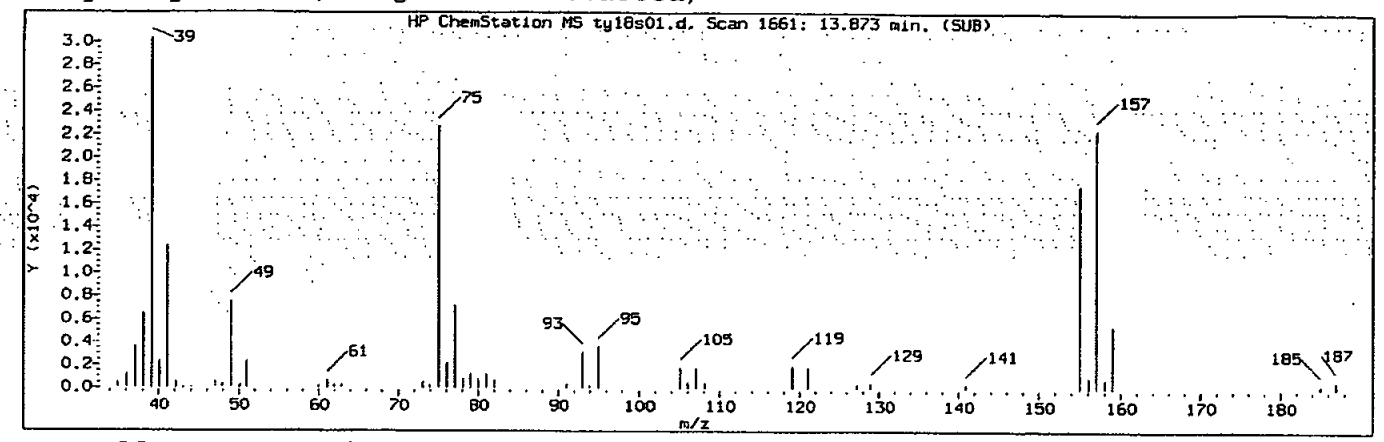
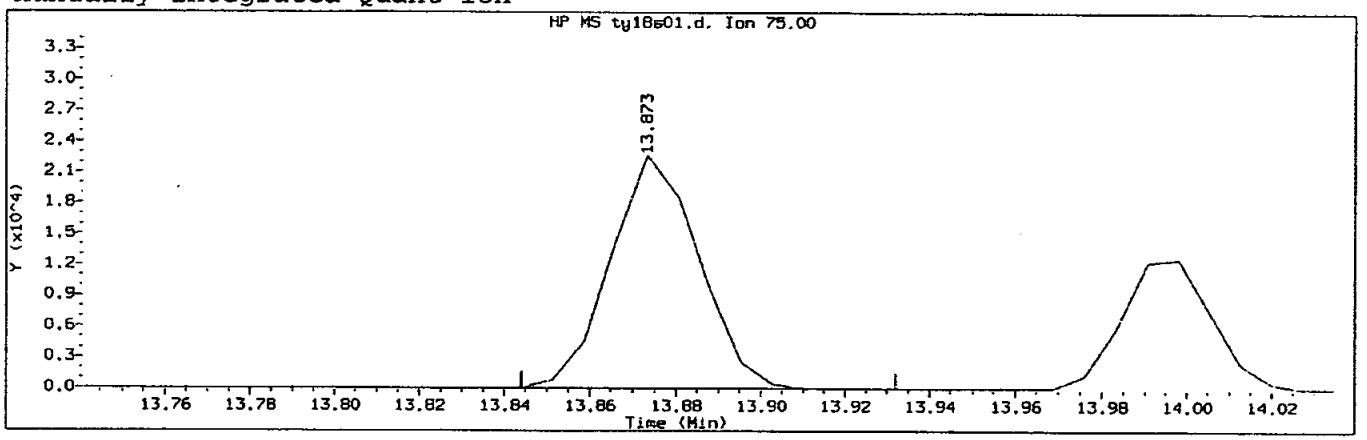
Target 3.5 esignature user ID: amd00492

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12may18a.b/ty18s01.d Instrument ID: SH08363.i
Injection date and time: 18-MAY-2012 12:36 Analyst ID: LCP00895 /

Method used: /chem/SH08363.i/12may18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 21-MAY-2012 10:08
Date, time and analyst ID of latest file update: 21-May-2012 10:08 amd00492

Sample Name: LCST82 Lab Sample ID: LCST82

Compound Number	: 151	
Compound Name	: 1,2-Dibromo-3-Chloropropane	
Scan Number	: 1661	
Retention Time (minutes)	: 13.873	
Quant Ion	: 75.00	
Area (flag)	: 32249M	
On-Column Amount (ng)	: 20.2470	
Integration start scan	: 1656	Integration stop scan: 1668
Y at integration start	: 0	Y at integration end: 0

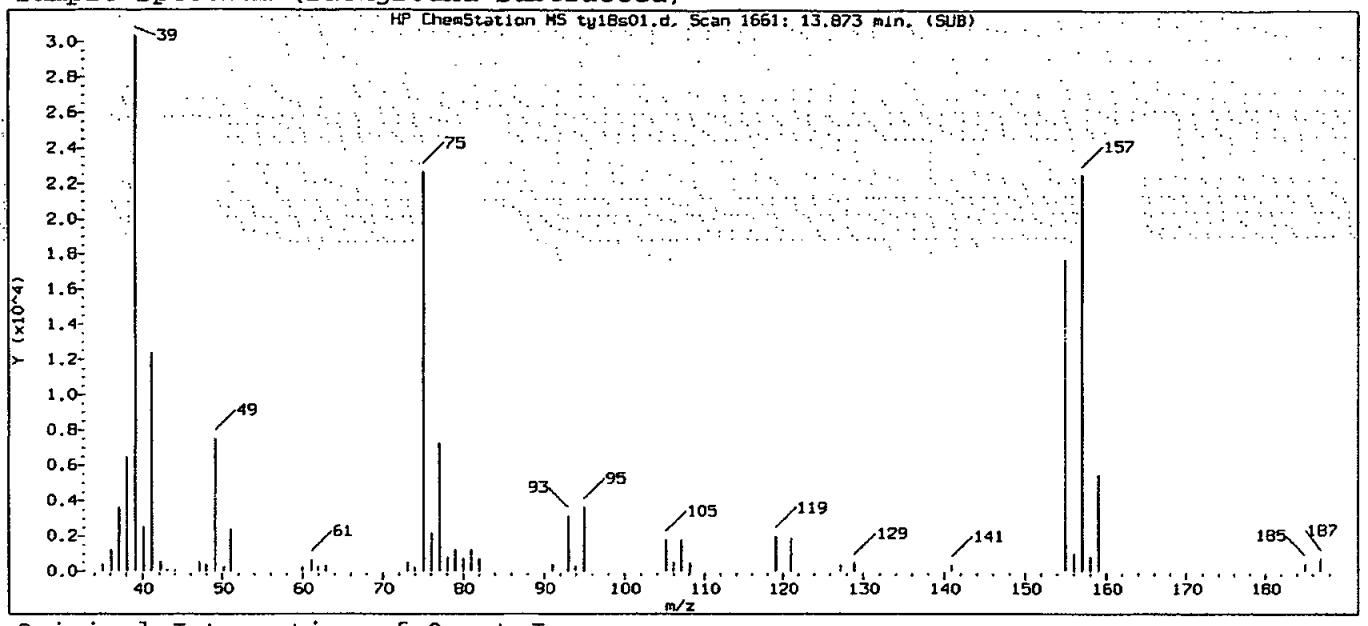
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Anita M. Dale on 05/21/2012 at 10:09. Target 3.5 esignature user ID: amd00492

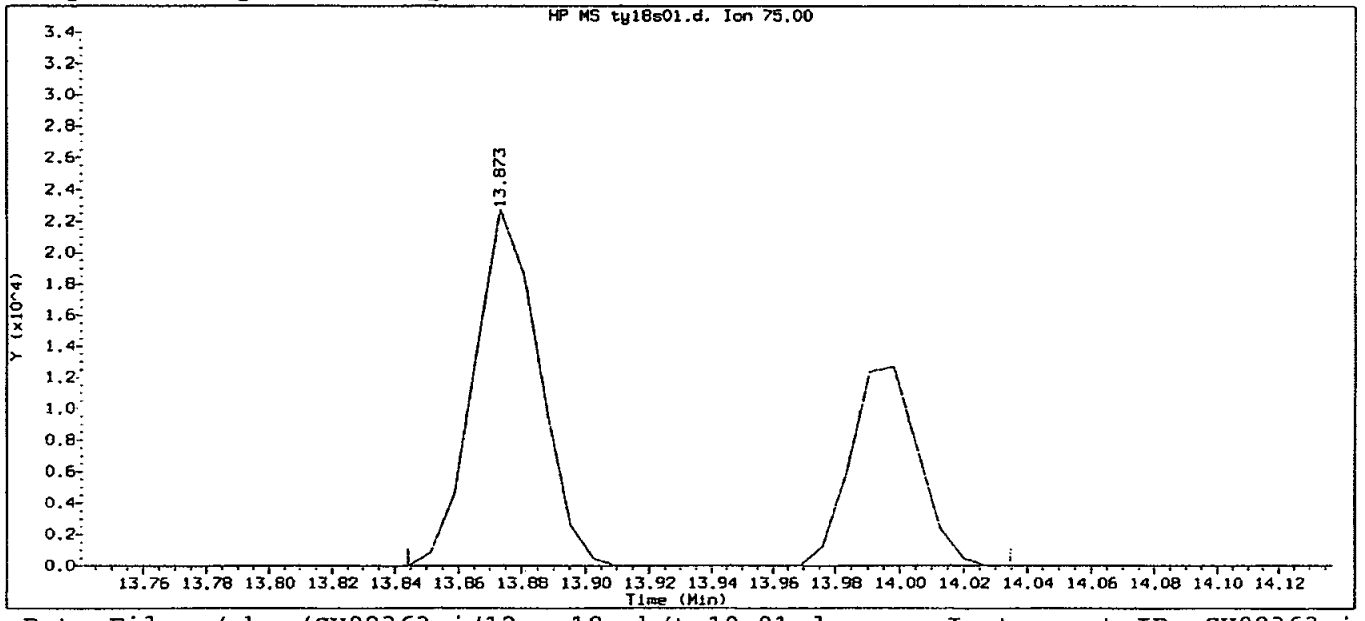
GC/MS audit/management approval: _____ 5/21/12

ASX73 0429

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12may18a.b/ty18s01.d Instrument ID: SH08363.i
Injection date and time: 18-MAY-2012 12:36 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12may18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-MAY-2012 12:55
Date, time and analyst ID of latest file update: 18-May-2012 13:12 lcp00895

Sample Name: LCST82 Lab Sample ID: LCST82

Compound Number : 151
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1661
Retention Time (minutes): 13.873
Quant Ion : 75.00
Area : 50864
On-column Amount (ng) : 31.9347
Integration start scan : 1656 Integration stop scan: 1682
Y at integration start : 0 Y at integration end: 0

Digitally signed by Anita M. Dale on 05/21/2012 at 10:09.
Target 3.5 esignature user ID: amd00492

Data File: /chem/SH08363.i/12jul18a.b/t118t03.d

Date : 18-JUL-2012 08:33

Client ID: BFBMAR28-12

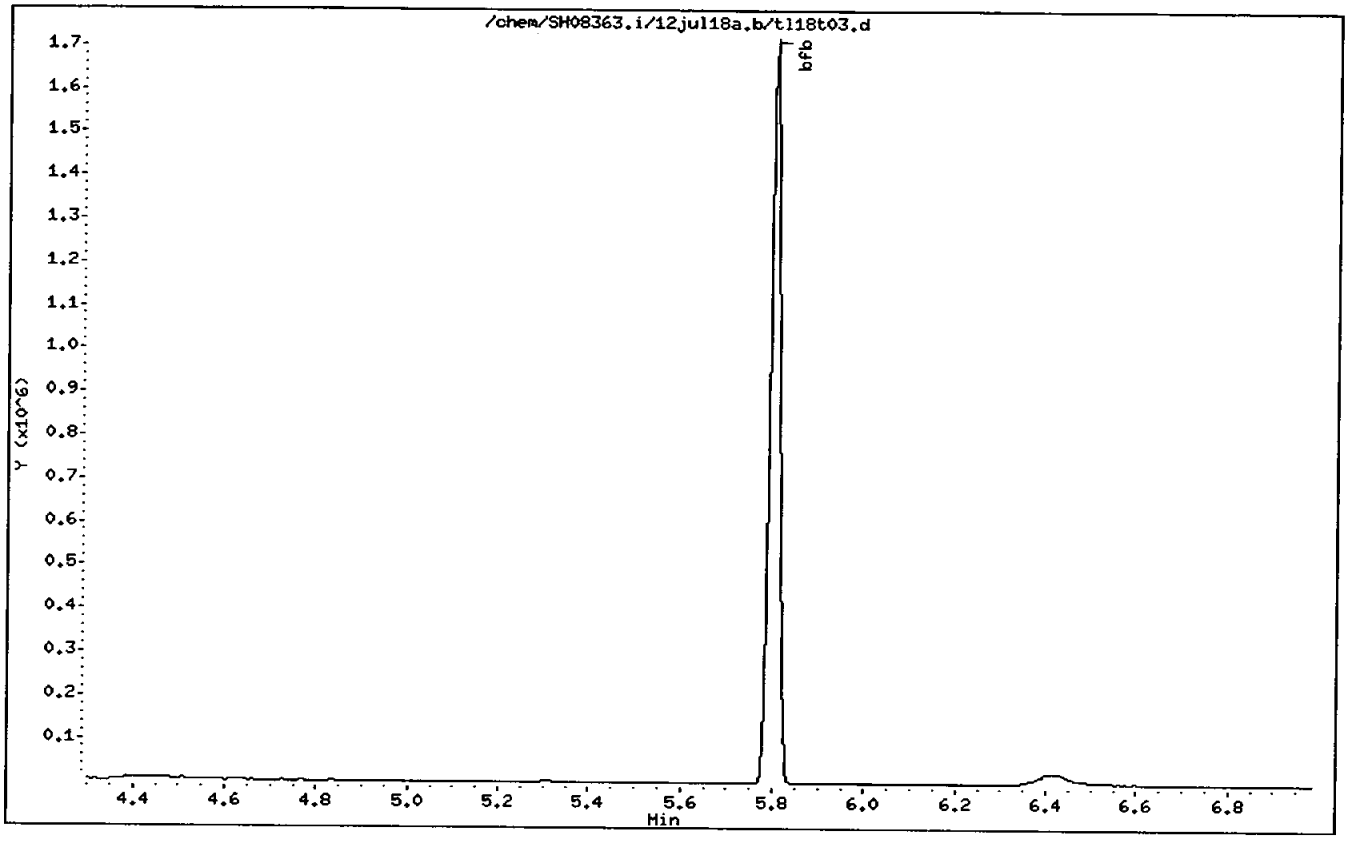
Instrument: SH08363.i

Sample Info: BFBMAR28-12;50NG BFB;

Operator: LCP00895

Column phase: Rxi-624Sil MS

Column diameter: 0.25



Digitally signed by Linda C. Pape on 07/18/2012 at 09:21.
Target 3.5 esignature user ID: lcp00895

Data File: /chem/SH08363.i/12jul18a.b/tl18t03.d

Date : 18-JUL-2012 08:33

Client ID: BFBMAR28-12

Instrument: SH08363.i

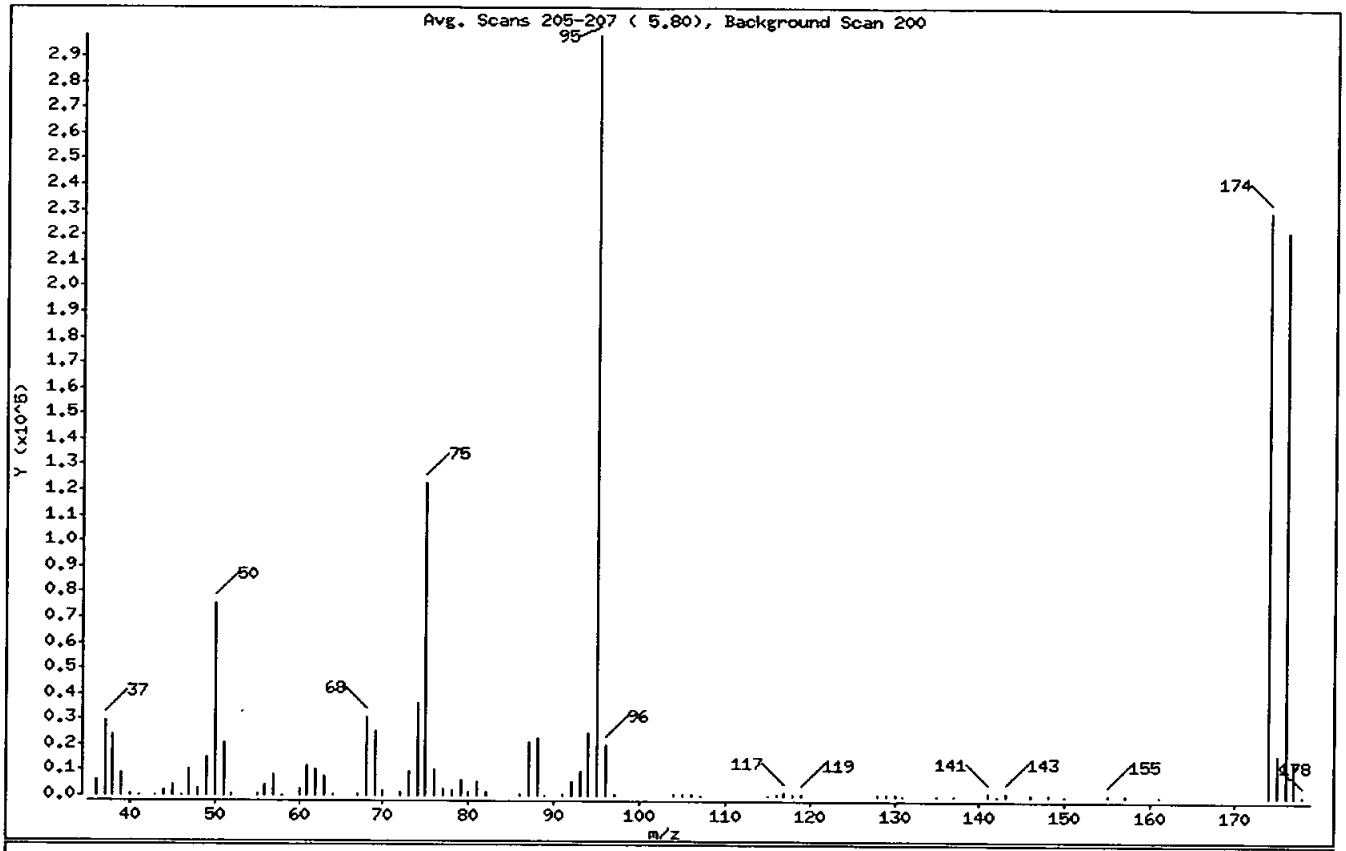
Sample Info: BFBMAR28-12;50NG BFB;

Operator: LCP00895

Column phase: Rxi-624Sil MS

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.31
75	30.00 - 60.00% of mass 95	41.16
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	76.95
175	5.00 - 9.00% of mass 174	5.58 (7.24)
176	95.00 - 101.00% of mass 174	74.54 (96.86)
177	5.00 - 9.00% of mass 176	4.69 (6.29)

Digitally signed by Linda C. Pape on 07/18/2012 at 09:21.
Target 3.5 esignature user ID: lcp00895

Data File: /chem/SH08363.i/12jul18a.b/tl18t03.d

Date : 18-JUL-2012 08:33

Client ID: BFBMAR28-12

Instrument: SH08363.i

Sample Info: BFBMAR28-12;50NG BFB;

Operator: LCP00895

Column phase: Rxi-624Sil MS

Column diameter: 0.25

Data File: tl18t03.d

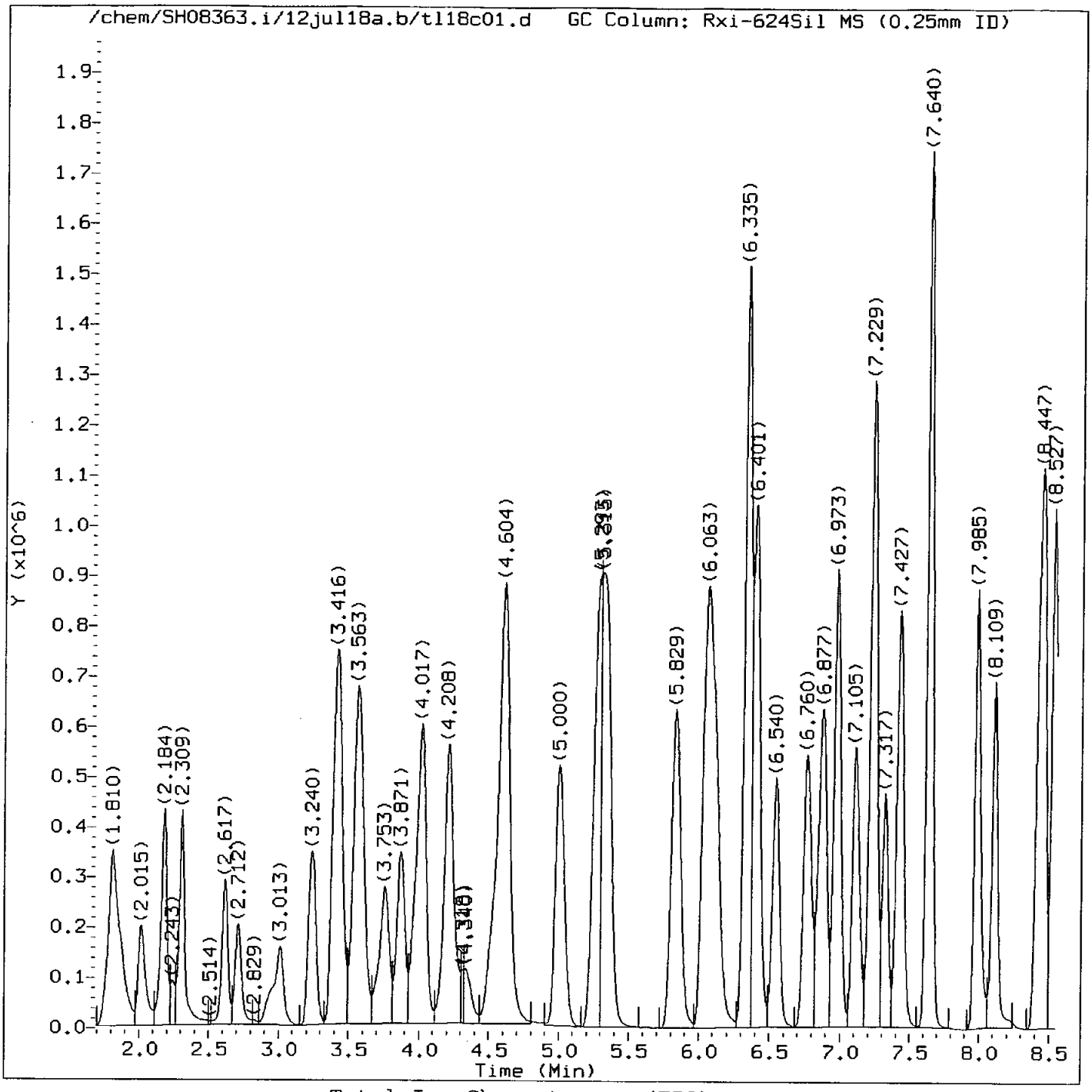
Spectrum: Avg. Scans 205-207 (5.80), Background Scan 200

Location of Maximum: 95.00

Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6214	61.00	11725	88.00	22288	131.00	297
37.00	29568	62.00	10629	89.00	241	135.00	143
38.00	23936	63.00	7521	91.00	856	137.00	267
39.00	8843	64.00	742	92.00	5329	141.00	1257
40.00	347	67.00	617	93.00	9269	142.00	137
41.00	85	68.00	30856	94.00	24792	143.00	1333
43.00	325	69.00	25336	95.00	298304	146.00	448
44.00	2090	70.00	1723	96.00	20136	148.00	623
45.00	4431	72.00	1124	97.00	542	150.00	145
46.00	221	73.00	9610	104.00	892	155.00	680
47.00	10383	74.00	36400	105.00	577	157.00	343
48.00	3083	75.00	122776	106.00	846	161.00	138
49.00	15346	76.00	10246	107.00	276	174.00	229568
50.00	75512	77.00	2706	115.00	108	175.00	16632
51.00	20672	78.00	2079	116.00	633	176.00	222336
52.00	804	79.00	5907	117.00	1188	177.00	13992
55.00	778	80.00	1582	118.00	718	178.00	465
56.00	4221	81.00	5803	119.00	922		
57.00	8087	82.00	1186	128.00	807		
58.00	289	86.00	493	129.00	458		
60.00	2801	87.00	21376	130.00	800		

Digitally signed by Linda C. Pape on 07/18/2012 at 09:21.
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18c01.d
Injection date and time: 18-JUL-2012 09:01

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 09:23

Sublist used: 8260WI-F

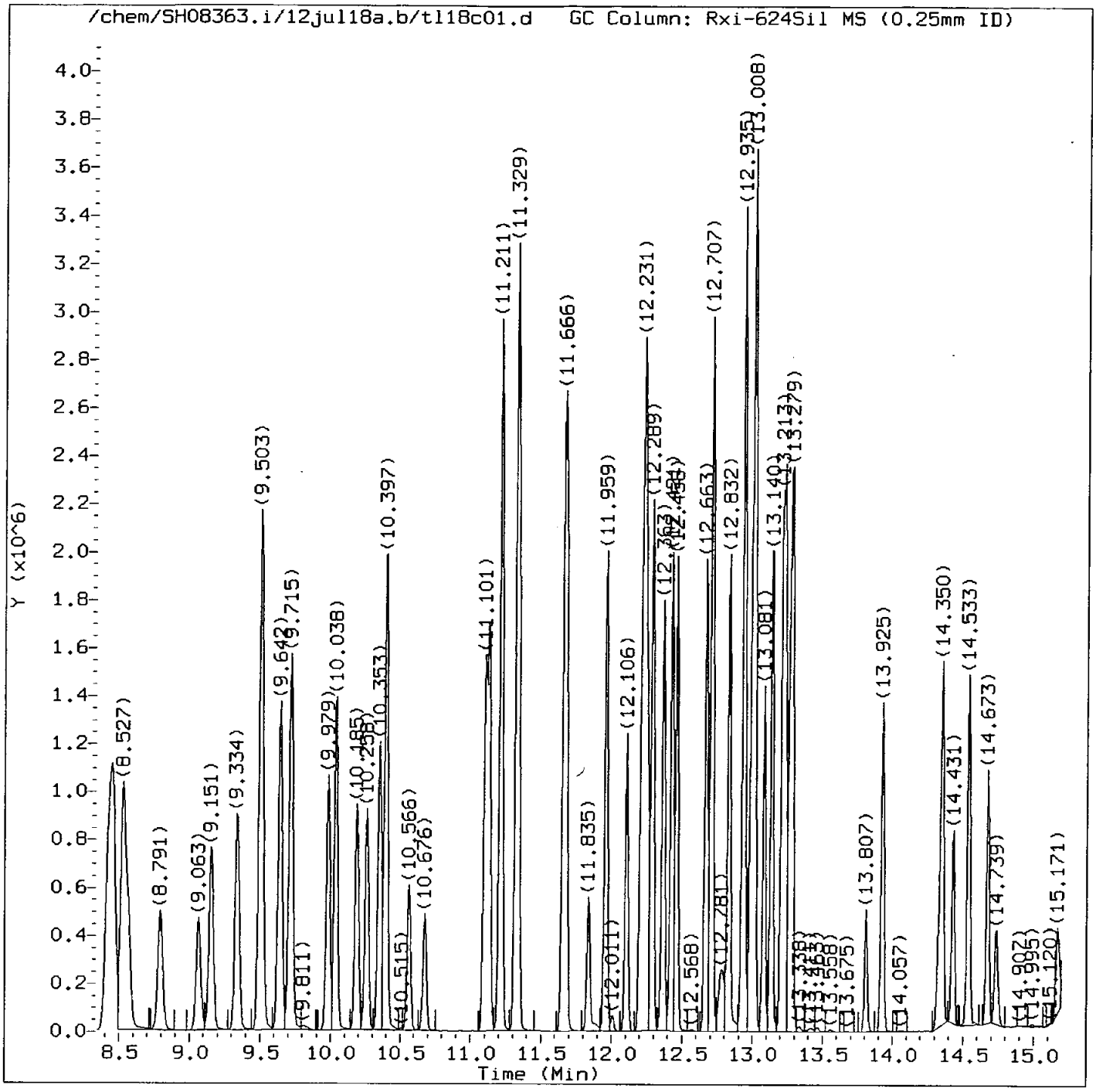
Date, time and analyst ID of latest file update: 18-Jul-2012 09:27 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Digitally signed by Linda C. Pape
on 07/18/2012 at 09:27.
Target 3.5 esignature user ID: lcp00895

ASX73 0434



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18c01.d
Injection date and time: 18-JUL-2012 09:01

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 09:23

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-Jul-2012 09:27 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Digitally signed by Linda C. Pape
on 07/18/2012 at 09:27.
Target 3.5 esignature user ID: lcp00895

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18c01.d
Injection date and time: 18-JUL-2012 09:01

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 09:23

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-Jul-2012 09:27 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.015	85	359661	34.922
2) Chloromethane	(1)	2.184	50	801112	46.463
4) Vinyl Chloride	(1)	2.309	62	509213	46.391
7) Bromomethane	(1)	2.617	94	312374	48.439
8) Chloroethane	(1)	2.712	64	280720	47.914
13) Trichlorofluoromethane	(1)	3.013	101	316337	48.978
15) Ethyl Ether	(1)	3.233	59	384057	47.715
17) Acrolein	(4)	3.416	56	1687696	396.292
18) 1,1-Dichloroethene	(1)	3.555	96	248732	54.250
21) Acetone	(1)	3.570	58	154933	106.565
19) Freon 113	(1)	3.585	101	238865	51.705
23) 2-Propanol	(4)	3.724	45	329599	257.877
22) Methyl Iodide	(1)	3.761	142	521751	56.495
24) Carbon Disulfide	(1)	3.871	76	981446	51.494
26) Methyl Acetate	(1)	3.966	43	783255	39.381
25) Allyl Chloride	(1)	4.025	41	880298	41.112
27) Methylene Chloride	(1)	4.208	84	351501	49.972
28)*t-Butyl Alcohol-d10	(4)	4.215	65	351057	250.000
29) t-Butyl Alcohol	(4)	4.340	59	389935M	244.012
30) Acrylonitrile	(1)	4.531	53	328291	47.253
31) Methyl Tertiary Butyl Ether	(1)	4.604	73	958770	52.732
32) trans-1,2-Dichloroethene	(1)	4.611	96	302237	55.649
34) n-Hexane	(1)	5.007	57	491876	49.920
36) 1,1-Dichloroethane	(1)	5.249	63	699806	53.747
37) di-Isopropyl Ether	(1)	5.308	45	2060044	48.887
41) 1,2-Dichloroethene (total)	(1)		96	636123	110.447
40) 2-Chloro-1,3-Butadiene	(1)	5.352	53	622317	50.943
42) Ethyl t-Butyl Ether	(1)	5.829	59	1318477	54.699
45) 2-Butanone	(1)	6.034	43	1178311	88.477
44) cis-1,2-Dichloroethene	(1)	6.063	96	333886	54.799
43) 2,2-Dichloropropane	(1)	6.093	77	370455	55.525
46) Propionitrile	(4)	6.122	54	618170	201.269
47) Methacrylonitrile	(1)	6.335	67	572389	114.589
49) Bromochloromethane	(1)	6.393	128	162279	49.980
50) Tetrahydrofuran	(4)	6.401	71	165571	79.543
52) Chloroform	(1)	6.540	83	558703	51.317
53)$Dibromofluoromethane(mz111)	(1)	6.760	111	304279	50.985
54)$Dibromofluoromethane	(1)	6.760	113	297485	50.662

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Linda C. Pape
on 07/18/2012 at 09:27.
Target 3.5 esignature user ID: lcp00895

ASX73 0436

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18c01.d
Injection date and time: 18-JUL-2012 09:01

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 09:23

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-Jul-2012 09:27 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1,1-Trichloroethane	(1)	6.775	97	352003	58.173
58) Cyclohexane	(1)	6.877	56	625910	48.671
57) Cyclohexane(mz84)	(1)	6.877	84	346791M	49.027
56) Cyclohexane(mz69)	(1)	6.877	69	152678	49.997
60) Carbon Tetrachloride	(1)	6.973	117	269226	56.891
59) 1,1-Dichloropropene	(1)	6.973	75	427370	53.034
61) Isobutyl Alcohol	(4)	7.105	41	568312	543.840
64)$1,2-Dichloroethane-d4(mz65)	(1)	7.215	65	362147	49.672
63)$1,2-Dichloroethane-d4(mz104)	(1)	7.215	104	46999	51.777
62)$1,2-Dichloroethane-d4	(1)	7.215	102	73834	51.845
65) Benzene	(1)	7.237	78	1212992	51.042
66) 1,2-Dichloroethane	(1)	7.317	62	483450	52.808
67) 1,2-Dichloroethane(mz98)	(1)	7.317	98	40525	52.753
68) t-Amyl Methyl Ether	(1)	7.427	73	956529	52.304
69) n-Heptane	(1)	7.640	43	728237	46.891
70)*Fluorobenzene	(1)	7.640	96	1031075	50.000
73) n-Butanol	(4)	7.985	56	701391	1151.932
74) Trichloroethene	(1)	8.109	95	296499	53.903
76) Methylcyclohexane	(1)	8.417	83	347178	41.634
79) 1,2-Dichloropropane	(1)	8.454	63	407549	52.077
81) Methyl Methacrylate	(1)	8.520	69	340950	48.079
82) 1,4-Dioxane	(4)	8.542	88	65014M	694.650
80) Dibromomethane	(1)	8.564	93	252567	51.846
83) Bromodichloromethane	(1)	8.791	83	384552	51.951
84) 2-Nitropropane	(1)	9.063	41	387324	94.535
85) 2-Chloroethyl Vinyl Ether	(1)	9.151	63	342579	49.346
87) cis-1,3-Dichloropropene	(1)	9.334	75	531781	54.415
88) 4-Methyl-2-Pentanone	(1)	9.503	58	636263	87.995
90)$Toluene-d8	(2)	9.642	98	929859	49.279
91)$Toluene-d8(mz100)	(2)	9.642	100	626344	49.141
93) Toluene	(2)	9.715	92	687353	52.546
96) trans-1,3-Dichloropropene	(2)	9.979	75	487325	53.103
97) Ethyl Methacrylate	(2)	10.038	69	580542	50.397
98) 1,1,2-Trichloroethane	(2)	10.185	97	296753	51.406
99) Tetrachloroethene	(2)	10.258	166	288275	55.673
100) 1,3-Dichloropropane	(2)	10.346	76	559346	49.332
101) 2-Hexanone	(2)	10.397	58	690962	81.863
103) Dibromochloromethane	(2)	10.566	129	301838	49.502

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Linda C. Pape
on 07/18/2012 at 09:27.
Target 3.5 esignature user ID: lcp00895

ASX73 8437

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18c01.d
Injection date and time: 18-JUL-2012 09:01

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 09:23

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-Jul-2012 09:27 lcp00895

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
104) 1,2-Dibromoethane	(2)	10.676	107	351888	53.000
107)*Chlorobenzene-d5	(2)	11.101	117	691090	50.000
108) Chlorobenzene	(2)	11.123	112	731020	53.461
114) Ethylbenzene	(2)	11.211	106	360500	52.666
111) 1,1,1,2-Tetrachloroethane	(2)	11.211	131	243308	56.154
116) Xylene (Total)	(2)		106	1321557	157.133
115) m+p-Xylene	(2)	11.329	106	887889	104.481
117) o-Xylene	(2)	11.659	106	433668	52.652
119) Styrene	(2)	11.673	104	766541	53.341
120) Bromoform	(2)	11.835	173	237992	46.134
121) Isopropylbenzene	(2)	11.959	105	1062899	55.916
124)$4-Bromofluorobenzene	(2)	12.106	95	390105	49.973
125)$4-Bromofluorobenzene(mz174)	(2)	12.106	174	291242	50.698
126) 1,1,2,2-Tetrachloroethane	(3)	12.209	83	557052	46.093
127) Bromobenzene	(3)	12.223	156	314839	51.124
129) trans-1,4-Dichloro-2-Butene	(3)	12.238	53	388196	91.089
128) 1,2,3-Trichloropropane	(3)	12.253	110	122468	48.724
130) n-Propylbenzene	(3)	12.289	91	1451972	54.413
131) 2-Chlorotoluene	(3)	12.363	126	268452	51.988
132) 1,3,5-Trimethylbenzene	(3)	12.421	105	902474	54.308
133) 4-Chlorotoluene	(3)	12.458	126	280594	51.051
134) tert-Butylbenzene	(3)	12.663	134	189662	55.036
135) Pentachloroethane	(3)	12.700	167	173144	49.948
137) 1,2,4-Trimethylbenzene	(3)	12.707	105	941216	54.715
138) sec-Butylbenzene	(3)	12.832	105	1110815	55.182
139) 1,3-Dichlorobenzene	(3)	12.927	146	549552	52.290
140) p-Isopropyltoluene	(3)	12.935	119	915469	56.177
141)*1,4-Dichlorobenzene-d4	(3)	12.986	152	351916	50.000
142) 1,4-Dichlorobenzene	(3)	13.001	146	553437	50.913
143) 1,2,3-Trimethylbenzene	(3)	13.015	105	956594	52.162
144) Benzyl Chloride	(3)	13.081	91	775307	50.190
145) 1,3-Diethylbenzene	(3)	13.133	119	519981	51.168
146) 1,4-Diethylbenzene	(3)	13.206	119	552628	52.431
147) n-Butylbenzene	(3)	13.228	92	587233	52.424
148) 1,2-Dichlorobenzene	(3)	13.257	146	519926	51.249
149) 1,2-Diethylbenzene	(3)	13.279	119	428676	50.587
151) 1,2-Dibromo-3-Chloropropane	(3)	13.807	75	91804	44.331
153) 1,3,5-Trichlorobenzene	(3)	13.925	180	371941	52.152

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Linda C. Pape
on 07/18/2012 at 09:27.
Target 3.5 esignature user ID: lcp00895

ASX73 0438

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18c01.d
Injection date and time: 18-JUL-2012 09:01

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 09:23

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 18-Jul-2012 09:27 lcp00895

Sample Name: VSTD050

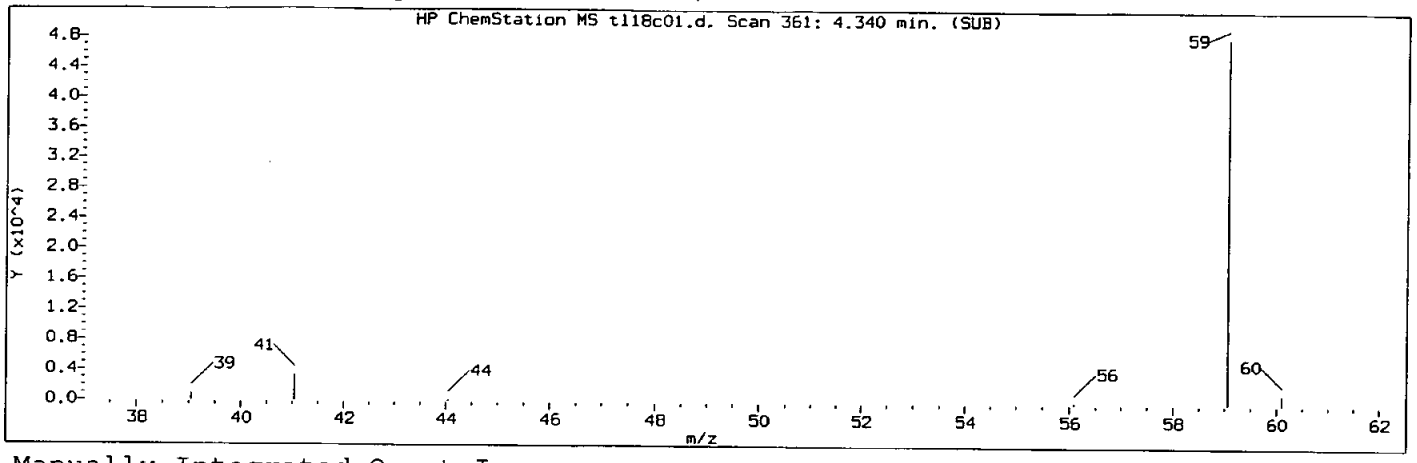
Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
154) 1,2,4-Trichlorobenzene	(3)	14.350	180	317459	50.021
155) Hexachlorobutadiene	(3)	14.423	225	142213	51.770
156) Naphthalene	(3)	14.533	128	913201	47.499
157) 1,2,3-Trichlorobenzene	(3)	14.673	180	271583	44.617

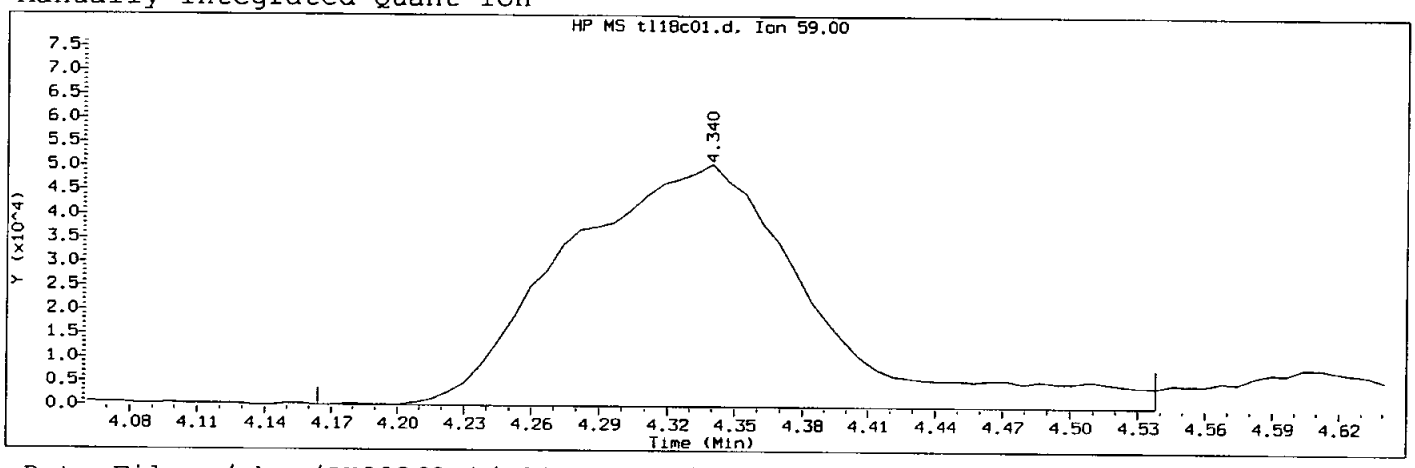
Digitally signed by Linda C. Pape
on 07/18/2012 at 09:27.
Target 3.5 esignature user ID: lcp00895

ASX73 0439

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18c01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:01 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-JUL-2012 09:23
Date, time and analyst ID of latest file update: 18-Jul-2012 09:27 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

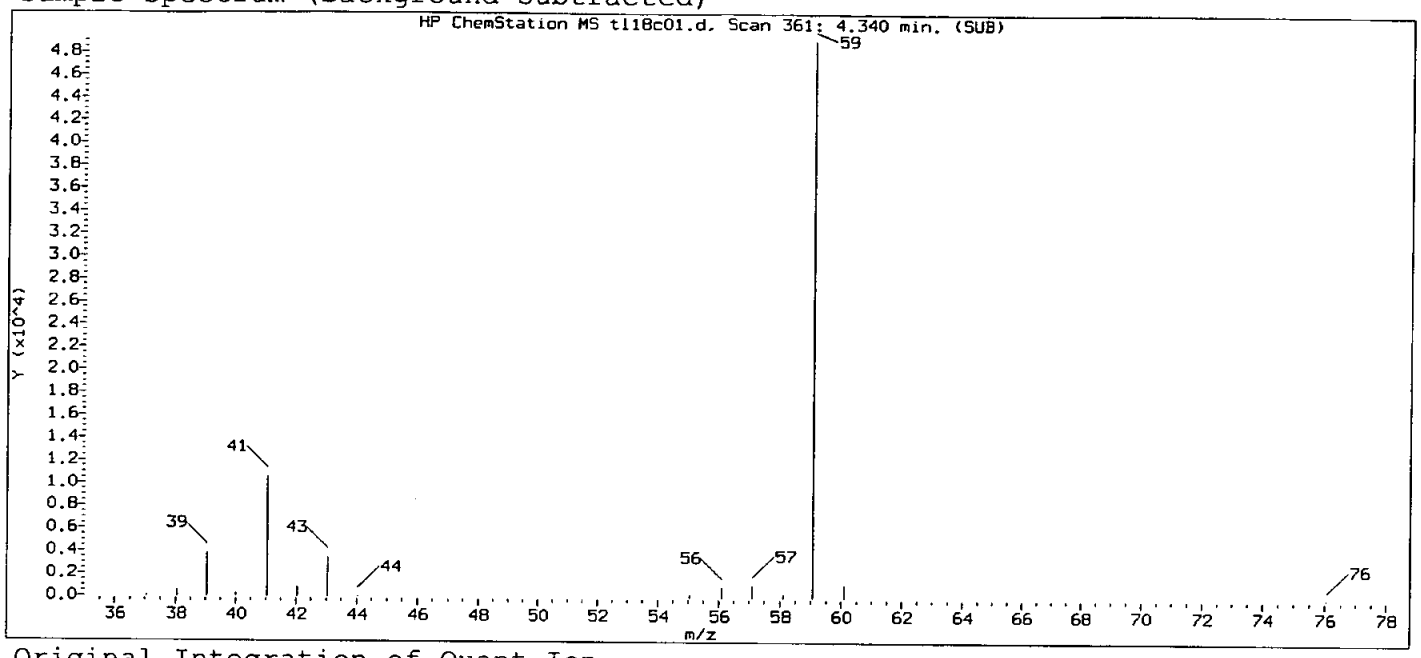
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 361		
Retention Time (minutes)	: 4.340		
Quant Ion	: 59.00		
Area (flag)	: 389935M		
On-Column Amount (ng)	: 244.0118		
Integration start scan	: 336	Integration stop scan:	387
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

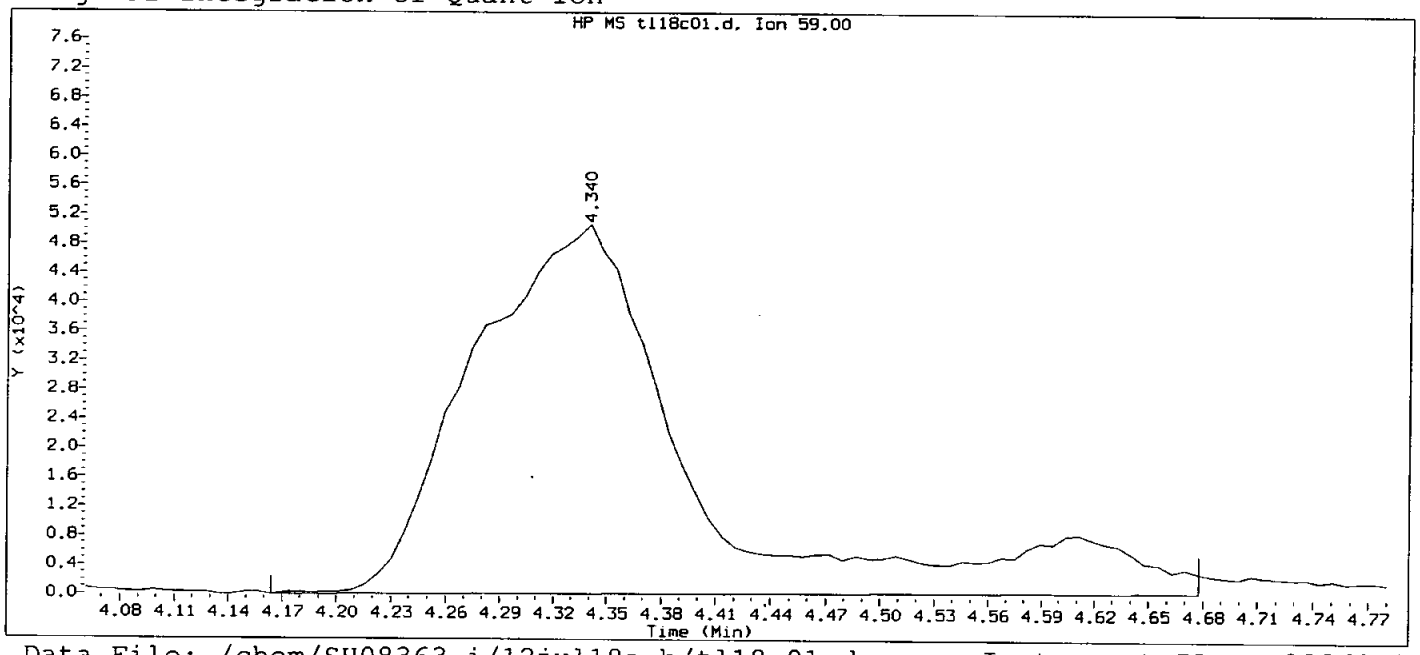
Analyst responsible for change: Digitally signed by Linda C. Pape on 07/18/2012 at 09:27. Target 3.5 esignature user ID: lcp00895

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18c01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:01 Analyst ID: LCP00895

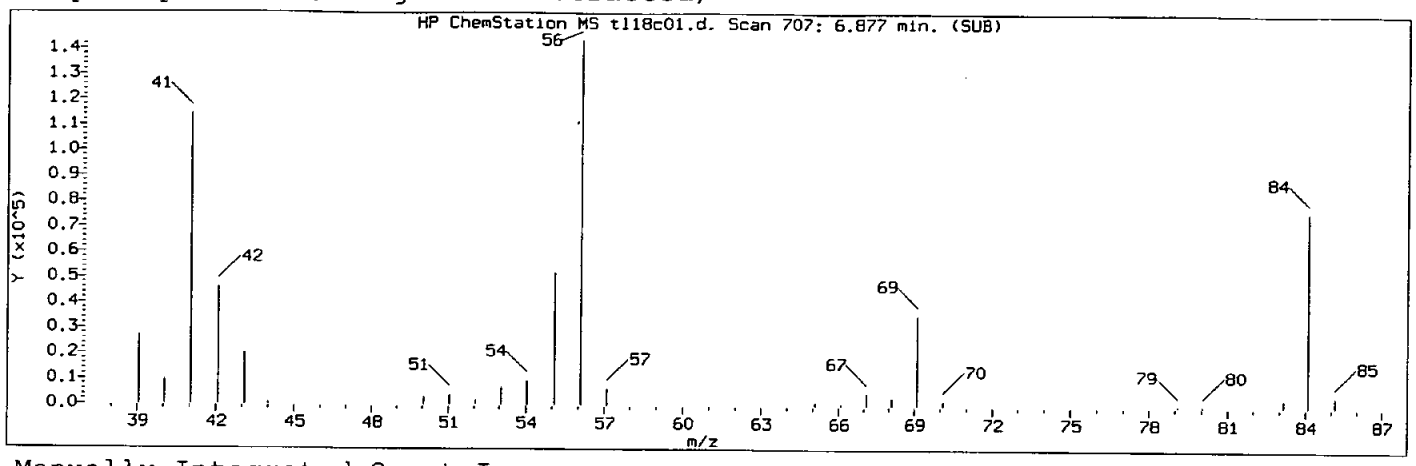
Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-JUL-2012 09:23
Date, time and analyst ID of latest file update: 18-Jul-2012 09:23 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

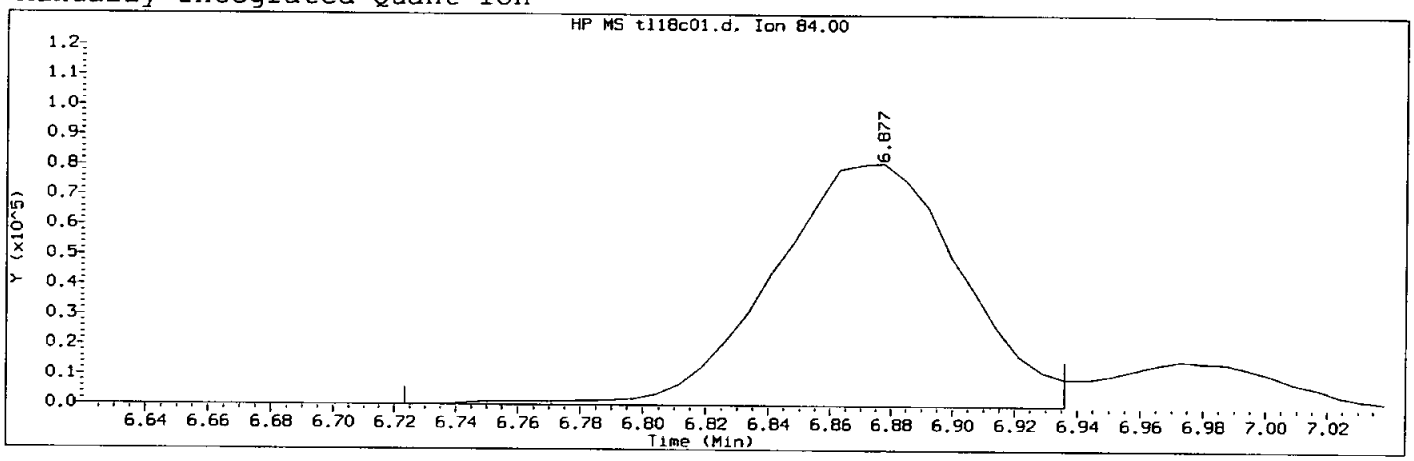
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 361		
Retention Time (minutes)	: 4.340		
Quant Ion	: 59.00		
Area	: 428818		
On-column Amount (ng)	: 268.3437		
Integration start scan	: 336	Integration stop scan:	406
Y at integration start	: 0	Y at integration end:	582

Digitally signed by Linda C. Pape on 07/18/2012 at 09:27.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18c01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:01 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-JUL-2012 09:23
Date, time and analyst ID of latest file update: 18-Jul-2012 09:27 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

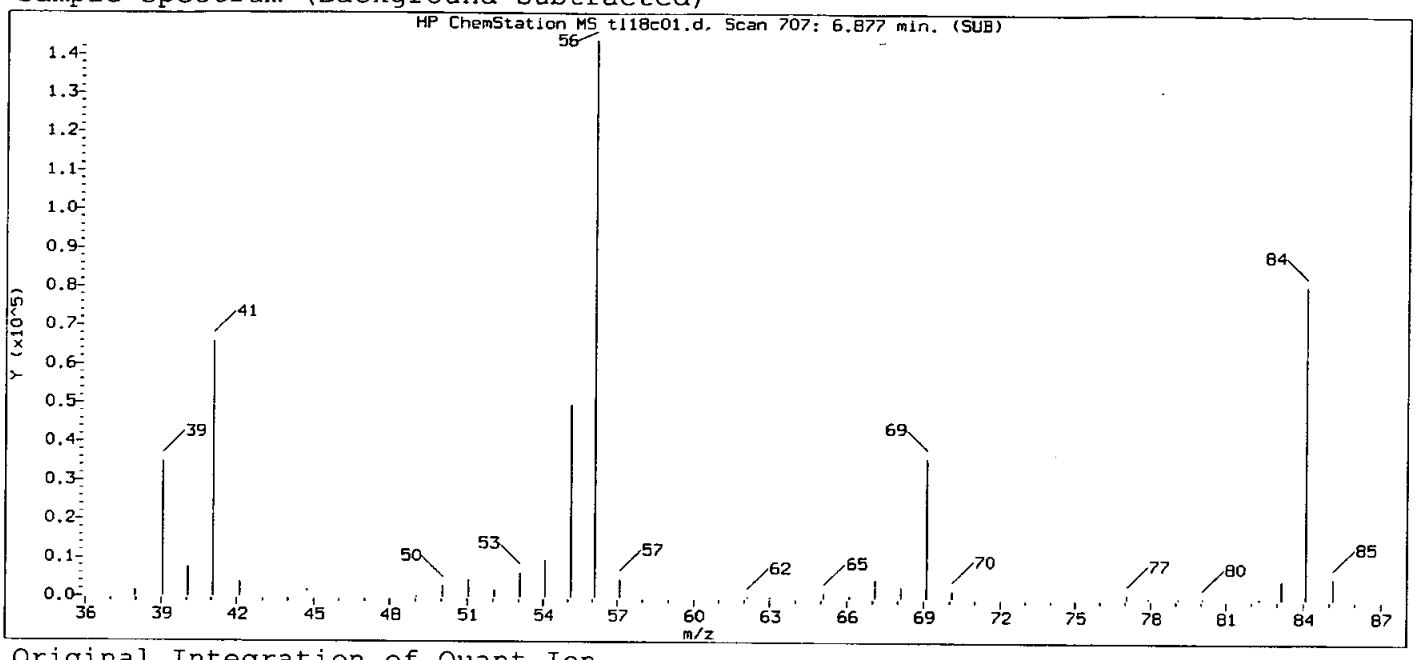
Compound Number	: 57		
Compound Name	: Cyclohexane(mz84)		
Scan Number	: 707		
Retention Time (minutes)	: 6.877		
Quant Ion	: 84.00		
Area (flag)	: 346791M		
On-Column Amount (ng)	: 49.0271		
Integration start scan	: 685	Integration stop scan:	714
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

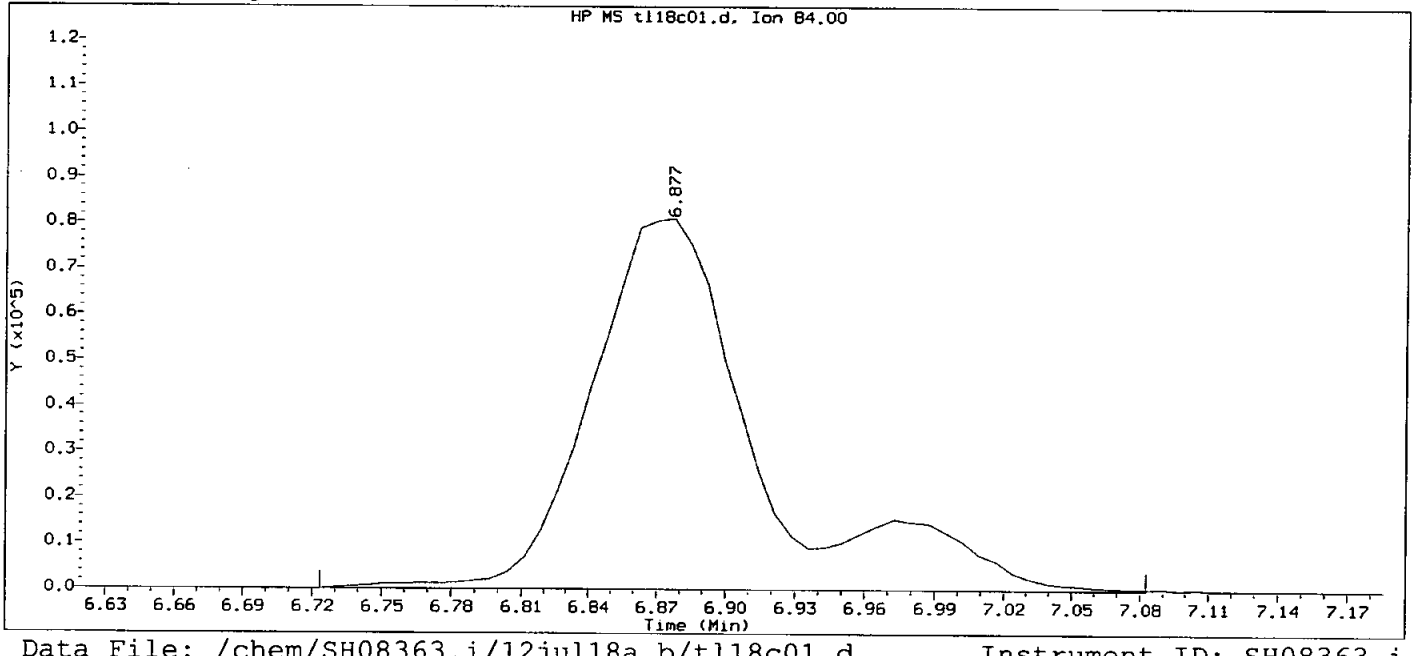
Analyst responsible for change: Digitally signed by Linda C. Pape on 07/18/2012 at 09:27. Target 3.5 esignature user ID: lcp00895

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/t118c01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:01 Analyst ID: LCP00895

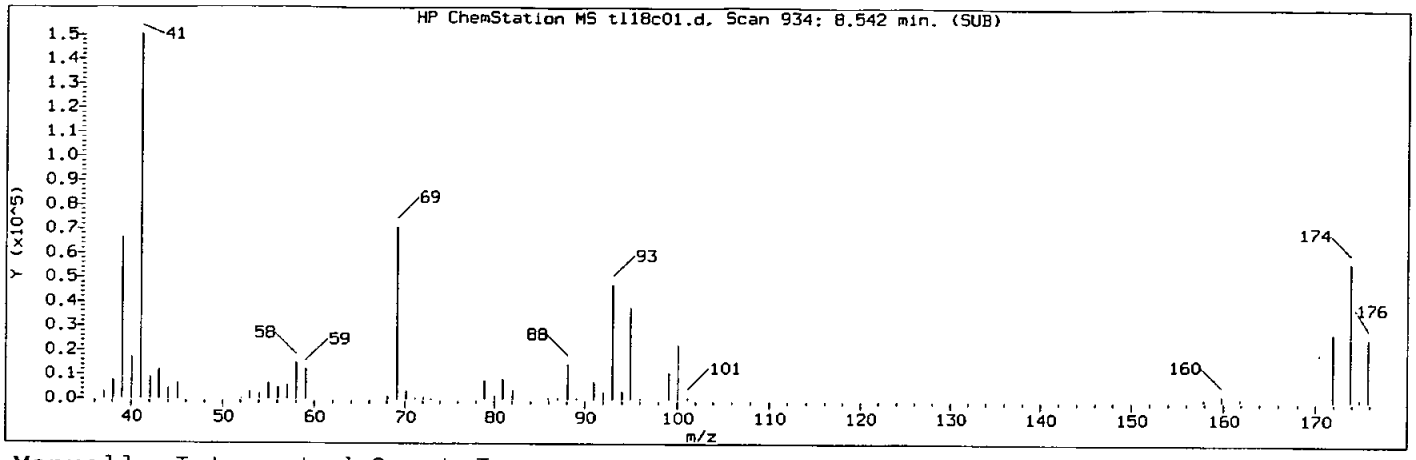
Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-JUL-2012 09:23
Date, time and analyst ID of latest file update: 18-Jul-2012 09:23 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

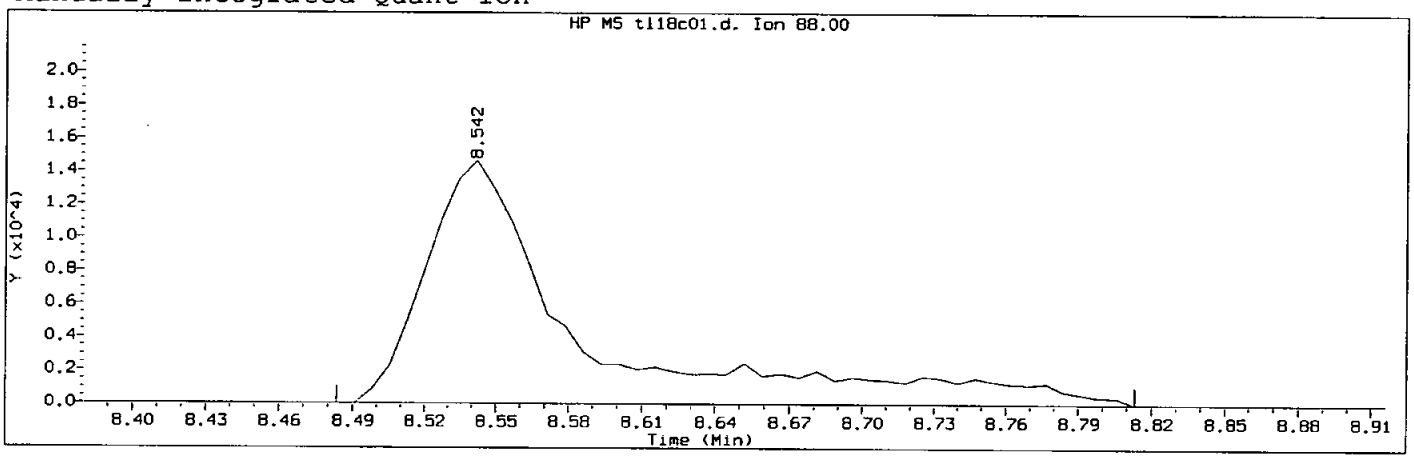
Compound Number	:	57
Compound Name	:	Cyclohexane(mz84)
Scan Number	:	707
Retention Time (minutes)	:	6.877
Quant Ion	:	84.00
Area	:	407841
On-column Amount (ng)	:	57.6579
Integration start scan	:	685
Integration stop scan	:	734
Y at integration start	:	0
Y at integration end	:	0

Digitally signed by Linda C. Pape on 07/18/2012 at 09:27.
Target 3.5 esignature user ID: lcp00895

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/t118c01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:01 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-JUL-2012 09:23
Date, time and analyst ID of latest file update: 18-Jul-2012 09:27 lcp00895

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 934		
Retention Time (minutes)	: 8.542		
Quant Ion	: 88.00		
Area (flag)	: 65014M		
On-Column Amount (ng)	: 694.6497		
Integration start scan	: 925	Integration stop scan:	970
Y at integration start	: 0	Y at integration end:	0

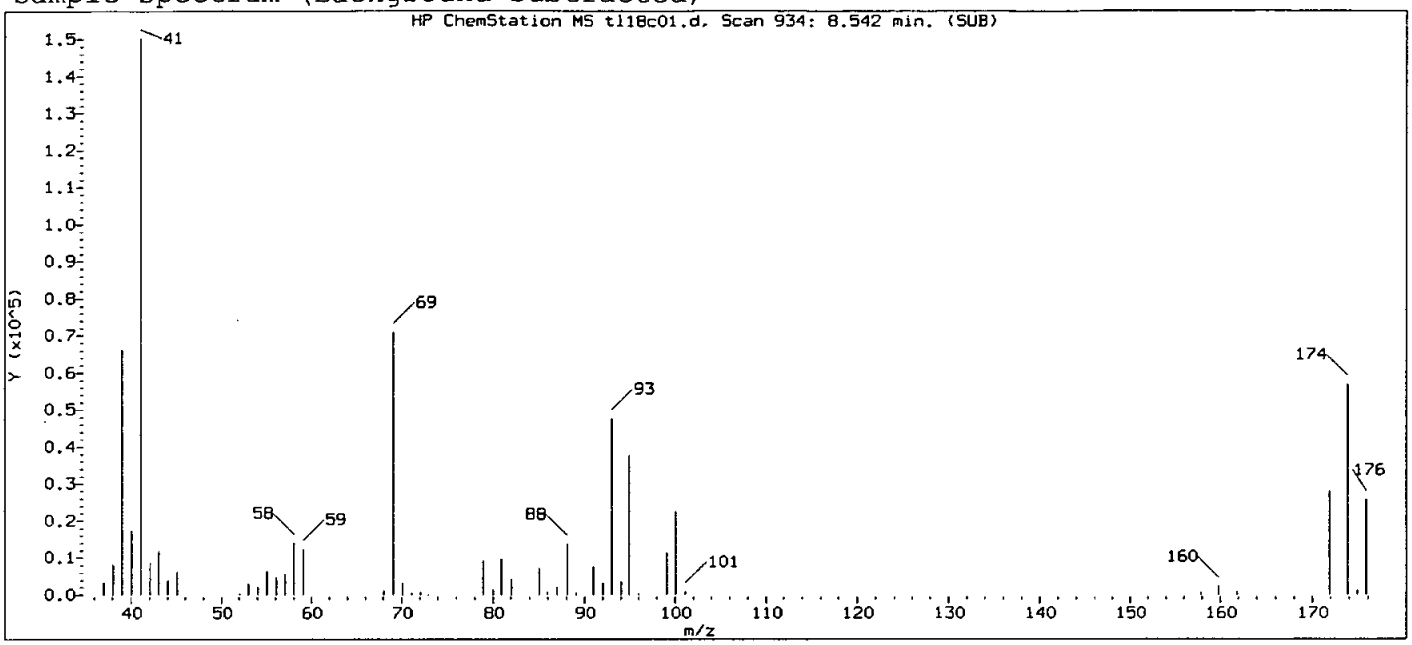
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Linda C. Pape on 07/18/2012 at 09:27. Target 3.5 esignature user ID: lcp00895

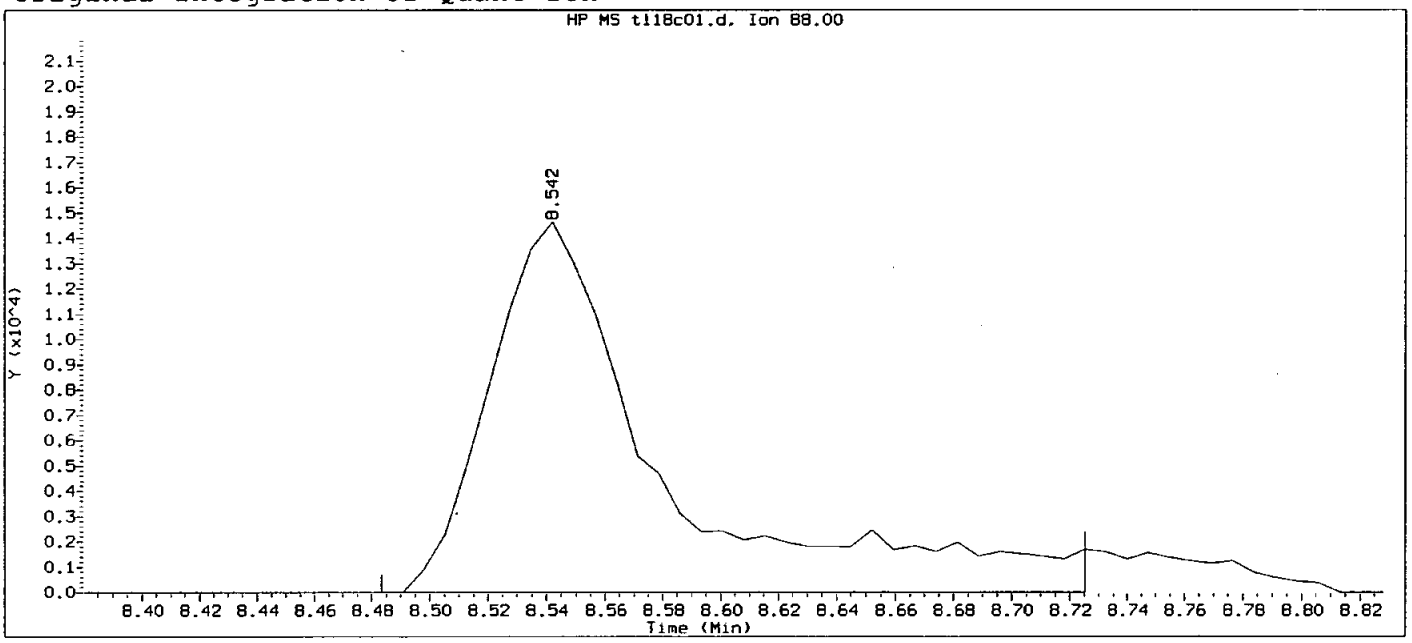
Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43.
Parallax ID: ahu01800

ASX73 9454

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



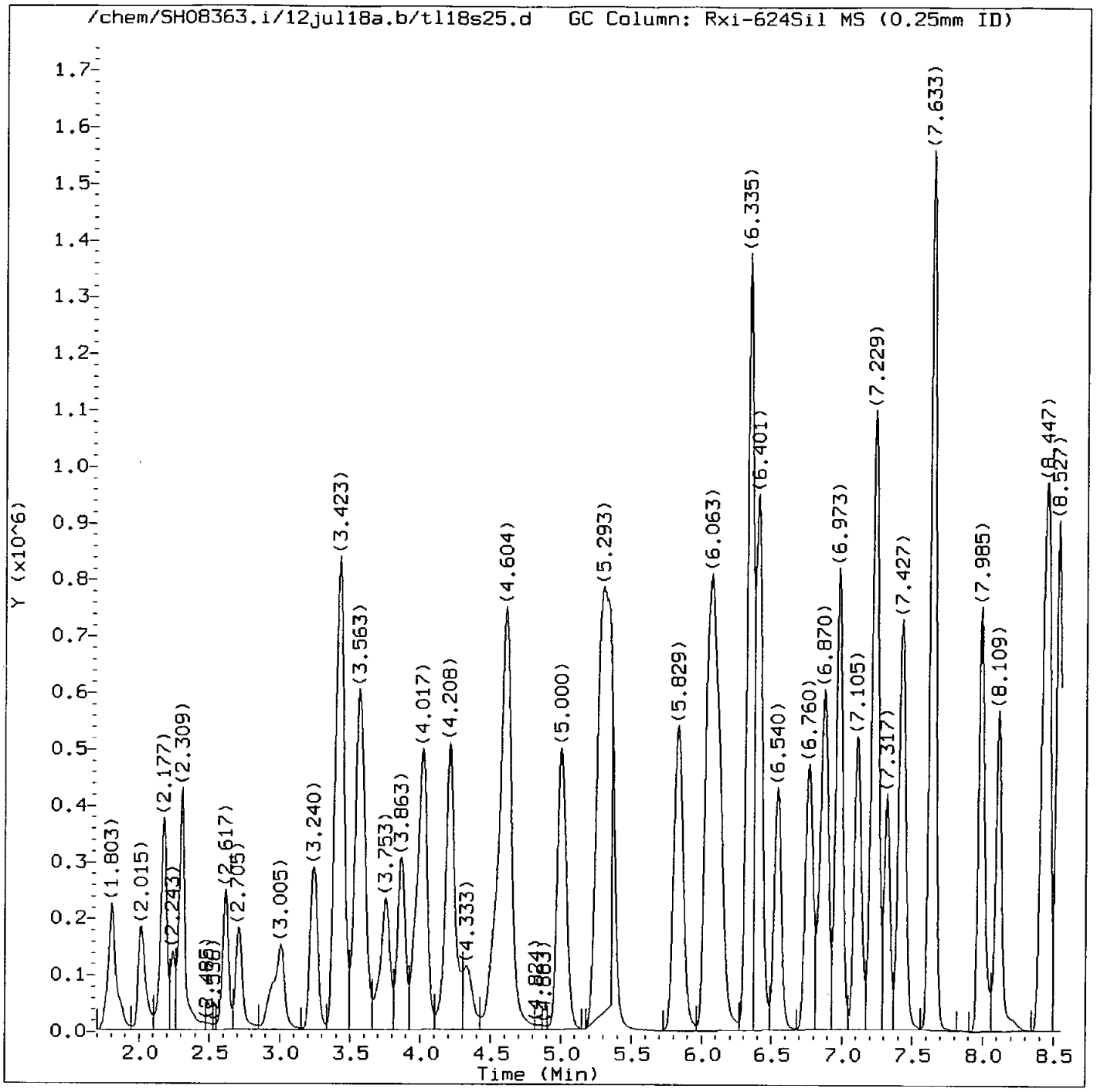
Data File: /chem/SH08363.i/12jul18a.b/tl18c01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:01 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260WI-F
Calibration date and time: 18-JUL-2012 09:23
Date, time and analyst ID of latest file update: 18-Jul-2012 09:23 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 934		
Retention Time (minutes)	: 8.542		
Quant Ion	: 88.00		
Area	: 59509		
On-column Amount (ng)	: 635.8289		
Integration start scan	: 925	Integration stop scan:	958
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Linda C. Pape on 07/18/2012 at 09:27.
Target 3.5 esignature user ID: lcp00895



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d
Injection date and time: 18-JUL-2012 20:21

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 20:35

Sublist used: 1163

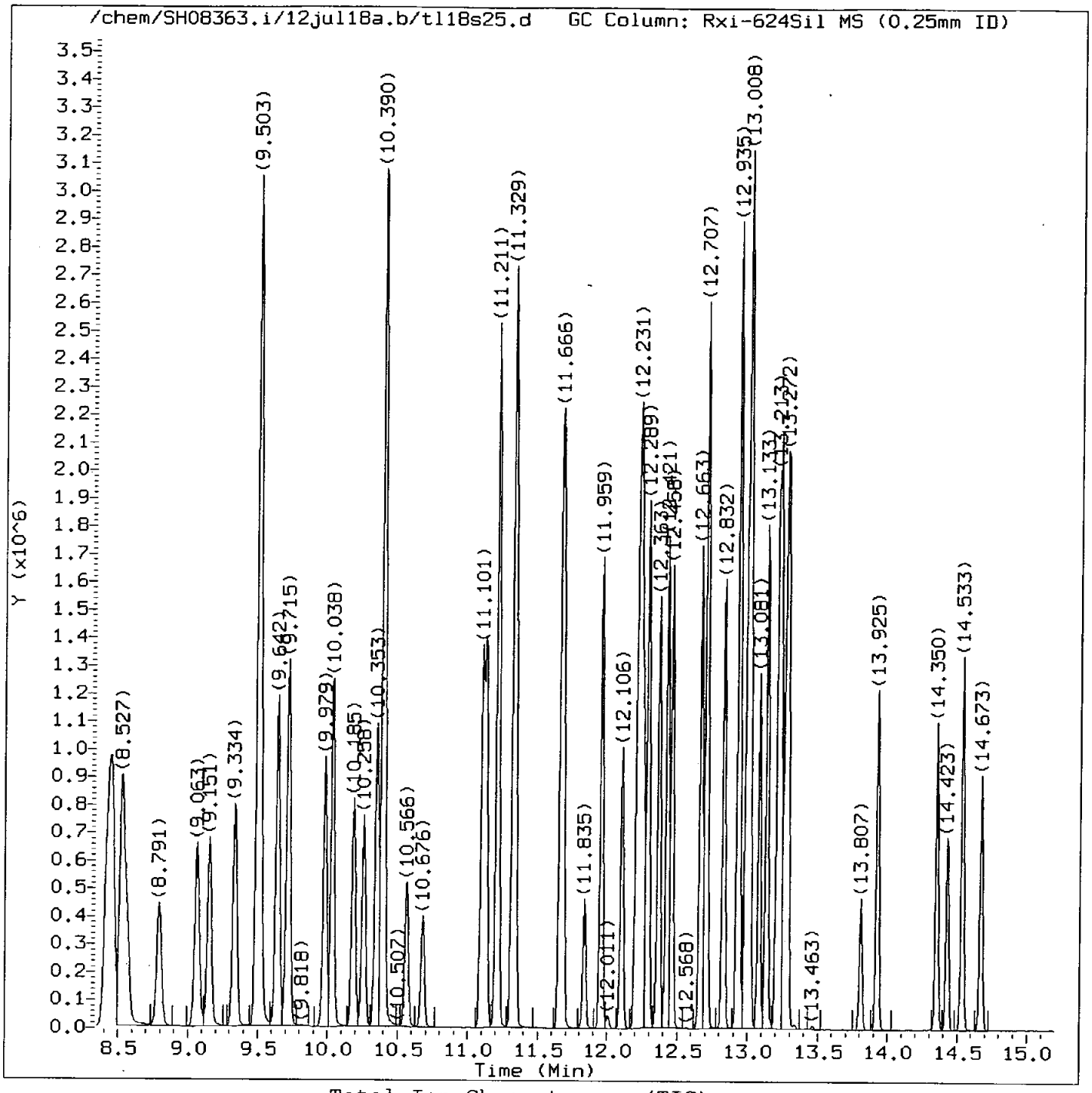
Date, time and analyst ID of latest file update: 18-Jul-2012 20:39 sag03174

Sample Name: VSTD050

Lab Sample ID: VSTD050

Digitally signed by Sarah A. Guill
on 07/18/2012 at 20:39.
Target 3.5 esignature user ID: sag03174

ASX73 0446



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d
Injection date and time: 18-JUL-2012 20:21

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 20:35

Sublist used: 1163

Date, time and analyst ID of latest file update: 18-Jul-2012 20:39 sag03174

Sample Name: VSTD050

Lab Sample ID: VSTD050

Digitally signed by Sarah A. Guill
on 07/18/2012 at 20:39.
Target 3.5 esignature user ID: sag03174

ASX73 0447

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d
Injection date and time: 18-JUL-2012 20:21

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 20:35

Sublist used: 1163

Date, time and analyst ID of latest file update: 18-Jul-2012 20:39 sag03174

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Chloromethane	(1)	2.177	50	694046M	51.580
4) Vinyl Chloride	(1)	2.309	62	444682	51.912
7) Bromomethane	(1)	2.617	94	253532	50.376
8) Chloroethane	(1)	2.712	64	241711	52.865
18) 1,1-Dichloroethene	(1)	3.555	96	189422	52.940
21) Acetone	(1)	3.577	58	128019M	112.830
24) Carbon Disulfide	(1)	3.863	76	812149	54.602
27) Methylene Chloride	(1)	4.208	84	271555	49.469
32) trans-1,2-Dichloroethene	(1)	4.611	96	225704	53.251
36) 1,1-Dichloroethane	(1)	5.257	63	572801	56.372
45) 2-Butanone	(1)	6.027	43	1286002	123.734
44) cis-1,2-Dichloroethene	(1)	6.063	96	250198	52.618
52) Chloroform	(1)	6.540	83	471427	55.485
54) $Dibromofluoromethane	(1)	6.753	113	240495	52.481
55) 1,1,1-Trichloroethane	(1)	6.775	97	301282	63.801
60) Carbon Tetrachloride	(1)	6.980	117	235135	63.668
62) $1,2-Dichloroethane-d4	(1)	7.215	102	56481	50.820
65) Benzene	(1)	7.237	78	963394	51.946
66) 1,2-Dichloroethane	(1)	7.317	62	438685	61.401
70) *Fluorobenzene	(1)	7.633	96	804659	50.000
74) Trichloroethene	(1)	8.109	95	233209	54.326
79) 1,2-Dichloropropane	(1)	8.454	63	331377	54.259
83) Bromodichloromethane	(1)	8.791	83	333666	57.760
87) cis-1,3-Dichloropropene	(1)	9.334	75	426550	55.928
88) 4-Methyl-2-Pentanone	(1)	9.503	58	860611	152.513
90) $Toluene-d8	(2)	9.642	98	746038	51.079
93) Toluene	(2)	9.715	92	535053	52.843
96) trans-1,3-Dichloropropene	(2)	9.979	75	414803	58.395
98) 1,1,2-Trichloroethane	(2)	10.185	97	234949	52.581
99) Tetrachloroethene	(2)	10.258	166	210437	52.504
101) 2-Hexanone	(2)	10.390	58	1023710M	156.692
103) Dibromochloromethane	(2)	10.559	129	250919	53.038
107) *Chlorobenzene-d5	(2)	11.101	117	534934	50.000
108) Chlorobenzene	(2)	11.131	112	561545	53.055
114) Ethylbenzene	(2)	11.211	106	279012	52.660
116) Xylene (Total)	(2)		106	1043366	160.260
115) m+p-Xylene	(2)	11.329	106	703107	106.889
117) o-Xylene	(2)	11.659	106	340259	53.371

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 07/18/2012 at 20:39.
Target 3.5 esignature user ID: sag03174

ASX73 0448

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d
Injection date and time: 18-JUL-2012 20:21

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 20:35

Sublist used: 1163

Date, time and analyst ID of latest file update: 18-Jul-2012 20:39 sag03174

Sample Name: VSTD050

Lab Sample ID: VSTD050

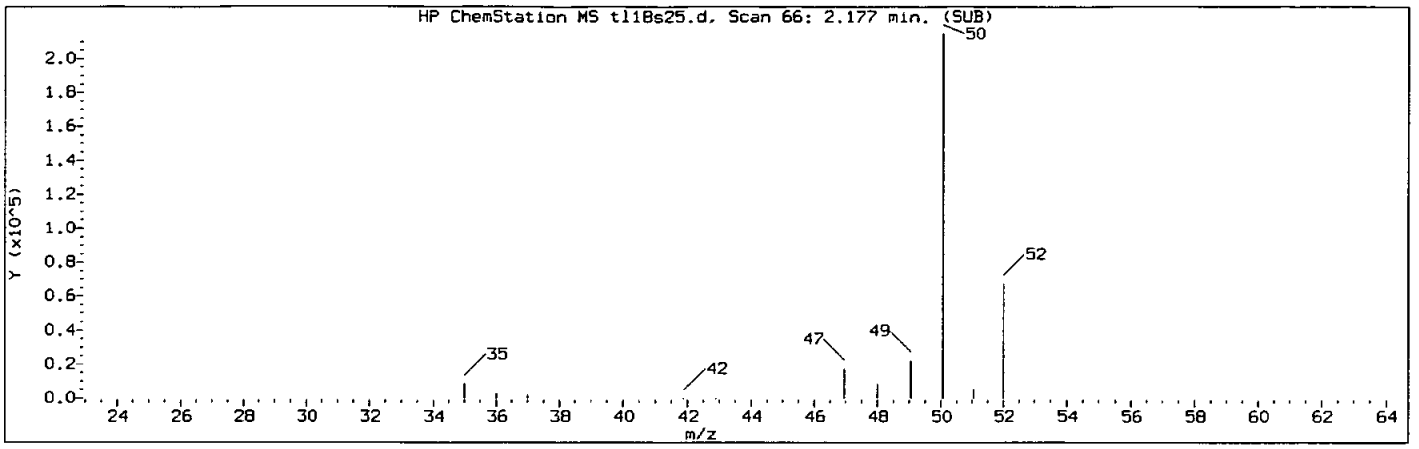
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
119) Styrene	(2)	11.673	104	606047	54.484
120) Bromoform	(2)	11.835	173	191949	47.972
124)$4-Bromofluorobenzene	(2)	12.106	95	321075	53.137
126) 1,1,2,2-Tetrachloroethane	(3)	12.209	83	478040M	49.522
141)*1,4-Dichlorobenzene-d4	(3)	12.986	152	281089	50.000

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

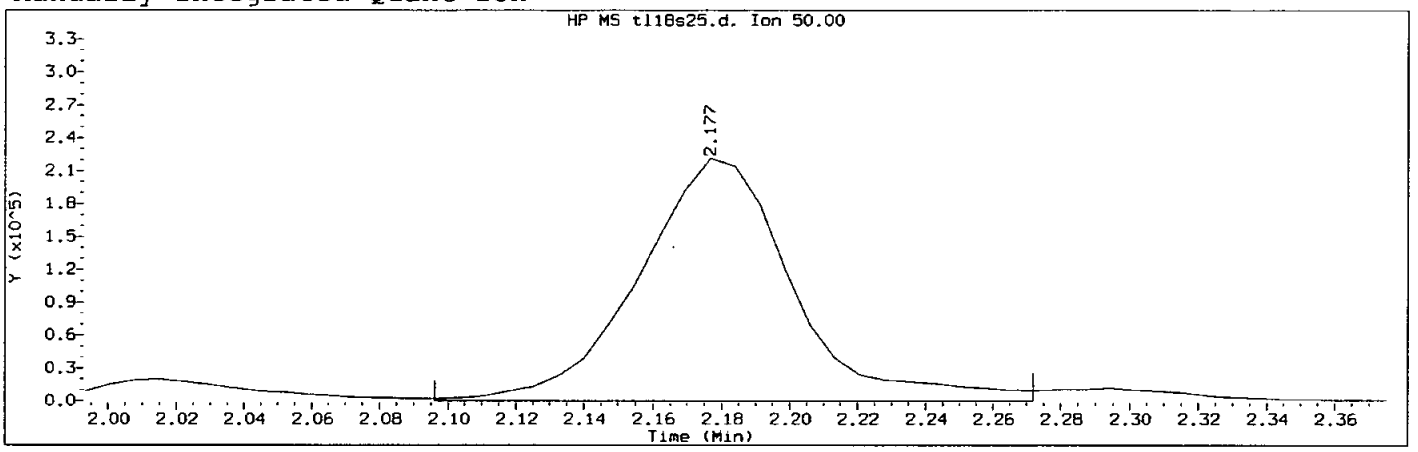
Digitally signed by Sarah A. Guill
on 07/18/2012 at 20:39.
Target 3.5 esignature user ID: sag03174

ASX73 9449

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 20:21 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 1163
Calibration date and time: 18-JUL-2012 20:35
Date, time and analyst ID of latest file update: 18-Jul-2012 20:39 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

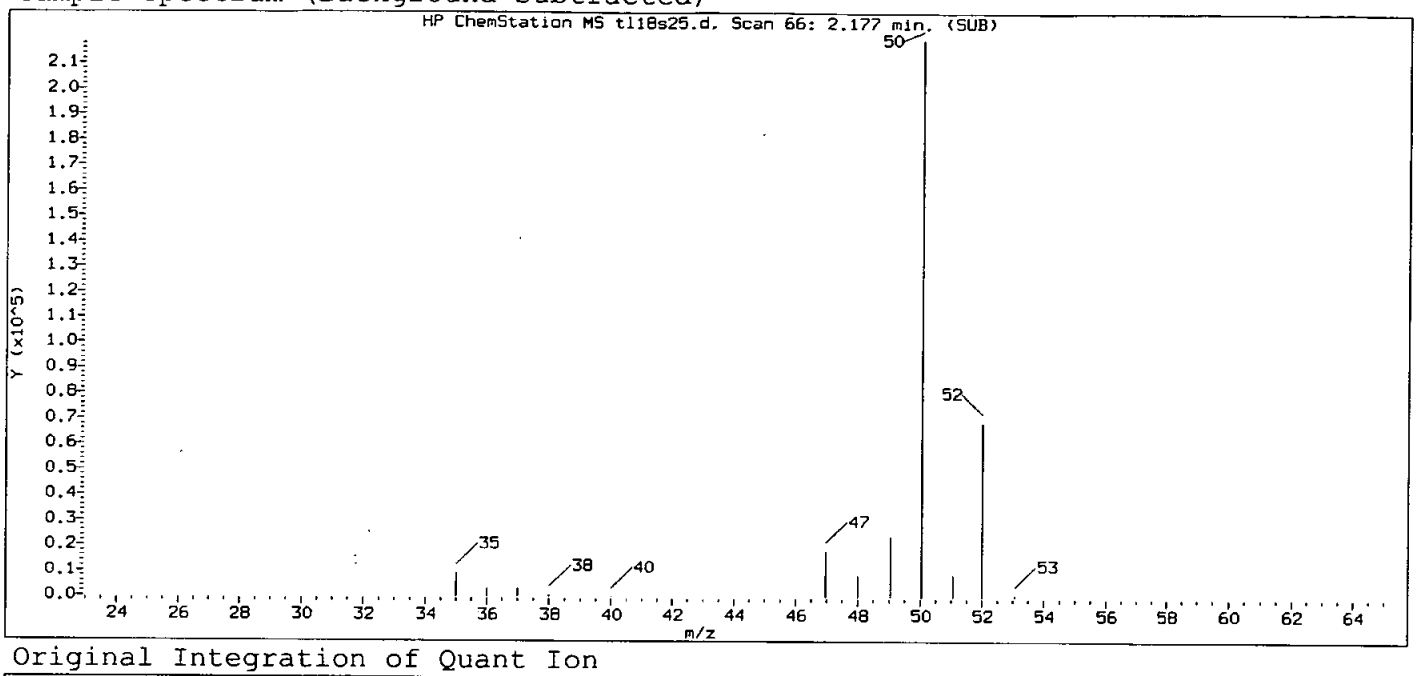
Compound Number	: 2		
Compound Name	: Chloromethane		
Scan Number	: 66		
Retention Time (minutes)	: 2.177		
Quant Ion	: 50.00		
Area (flag)	: 694046M		
On-Column Amount (ng)	: 51.5798		
Integration start scan	: 54	Integration stop scan:	78
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

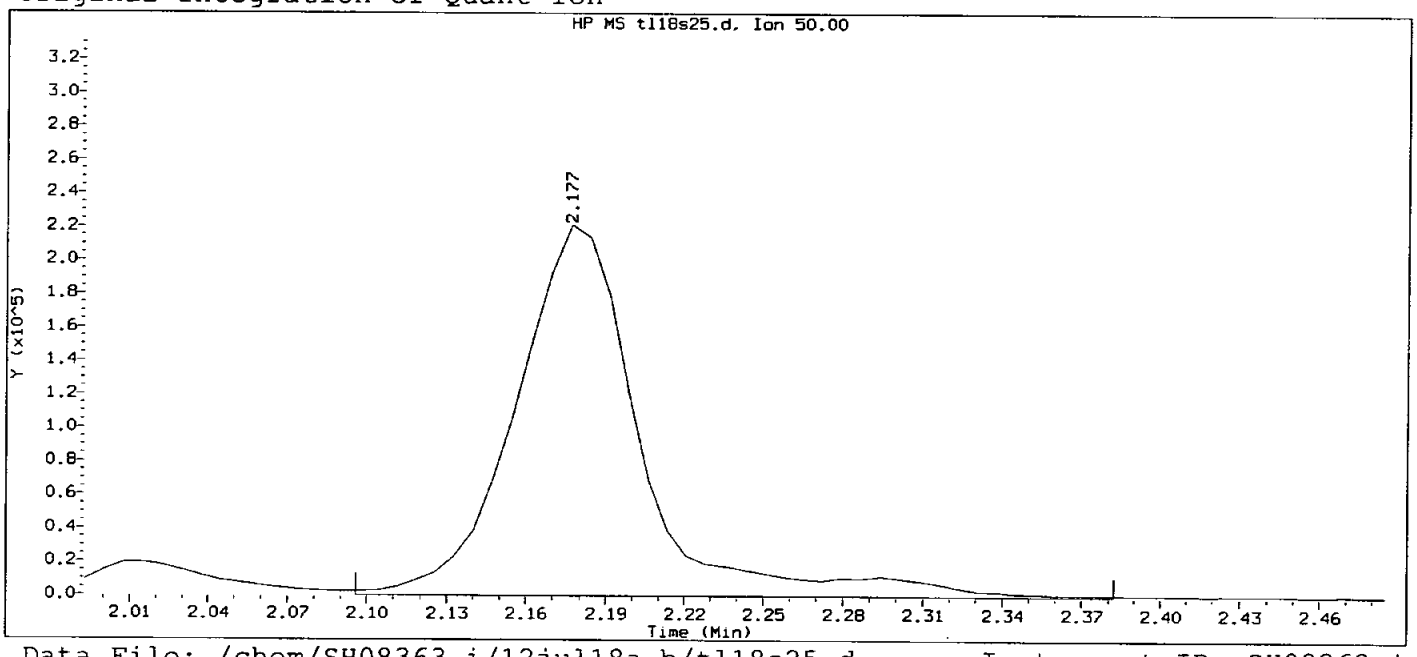
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 20:39. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Christine M. Ratcliff on 07/23/2012 at 12:09.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 20:21 Analyst ID: LCP00895

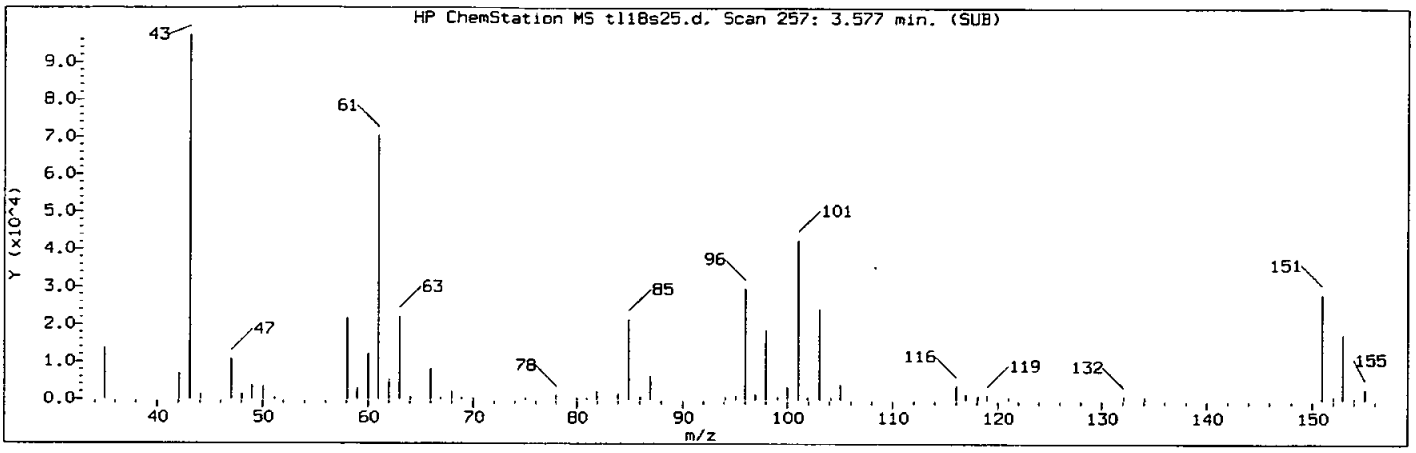
Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 1163
Calibration date and time: 18-JUL-2012 20:35
Date, time and analyst ID of latest file update: 18-Jul-2012 20:35 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

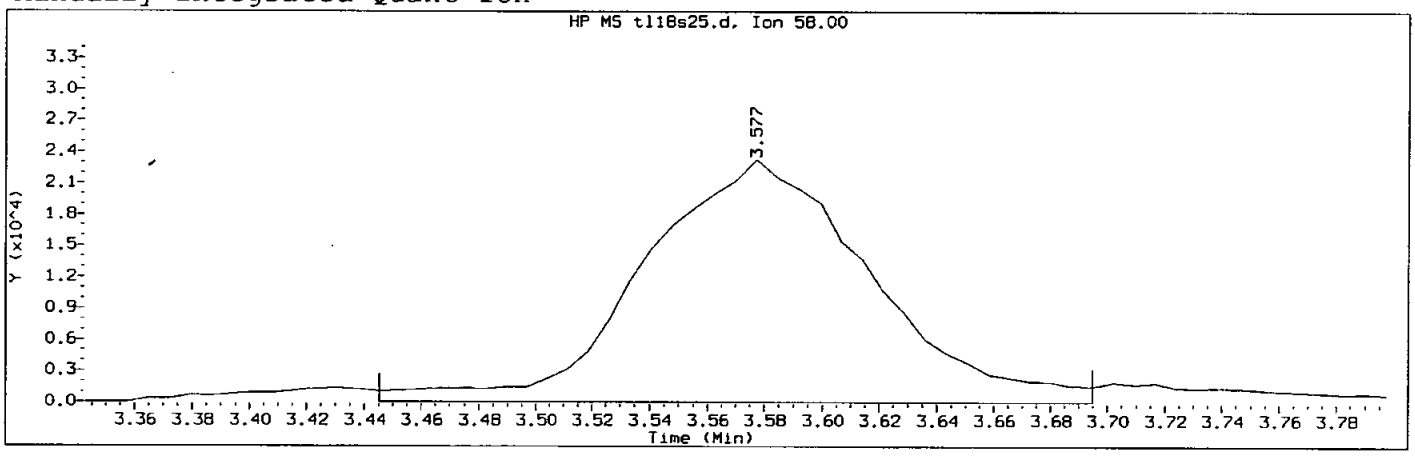
Compound Number	: 2		
Compound Name	: Chloromethane		
Scan Number	: 66		
Retention Time (minutes)	: 2.177		
Quant Ion	: 50.00		
Area	: 727591		
On-column Amount (ng)	: 54.0728		
Integration start scan	: 54	Integration stop scan:	93
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 07/18/2012 at 20:39.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 20:21 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 1163
Calibration date and time: 18-JUL-2012 20:35
Date, time and analyst ID of latest file update: 18-Jul-2012 20:39 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

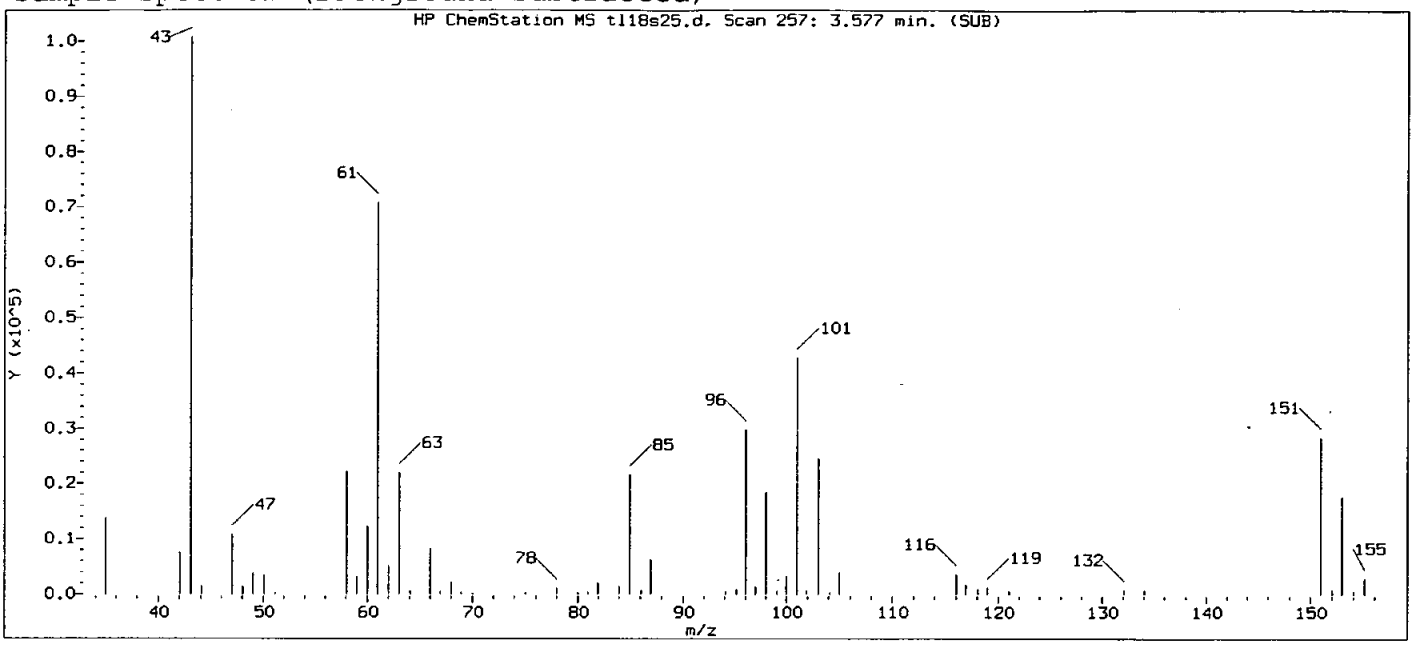
Compound Number	: 21		
Compound Name	: Acetone		
Scan Number	: 257		
Retention Time (minutes)	: 3.577		
Quant Ion	: 58.00		
Area (flag)	: 128019M		
On-Column Amount (ng)	: 112.8301		
Integration start scan	: 238	Integration stop scan:	272
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

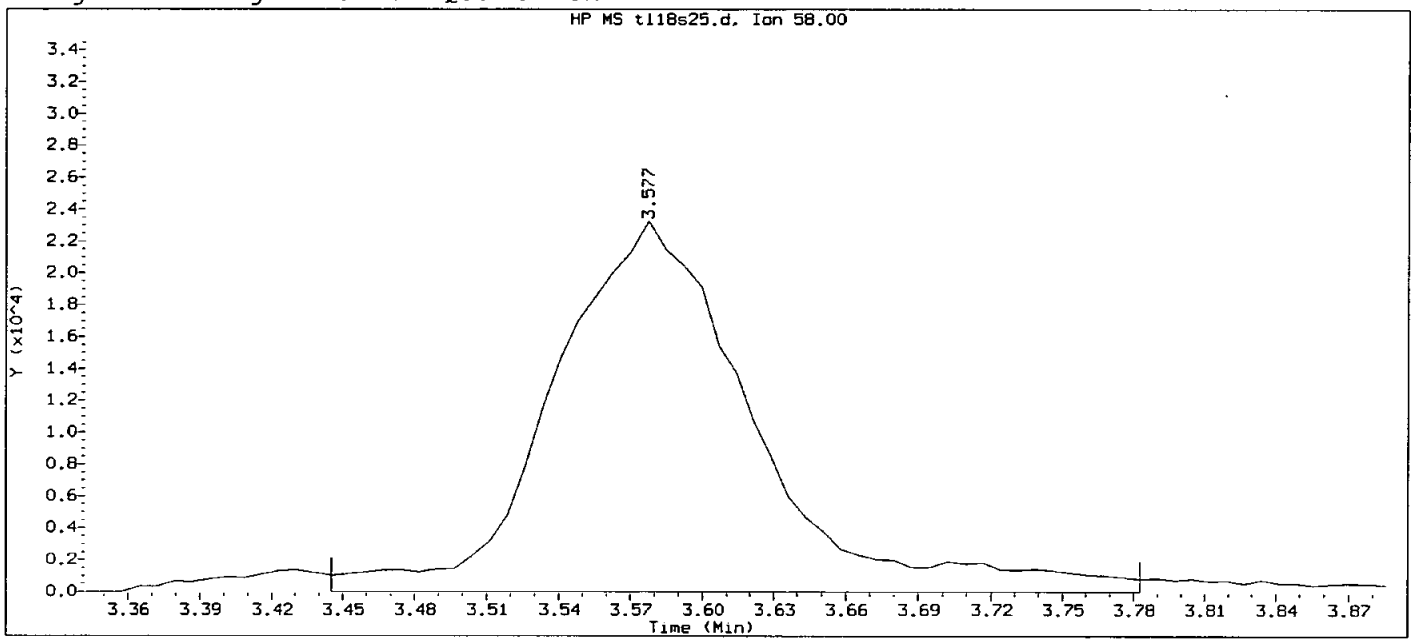
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 20:39. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Christine M. Ratcliff on 07/23/2012 at 12:09.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 20:21 Analyst ID: LCP00895

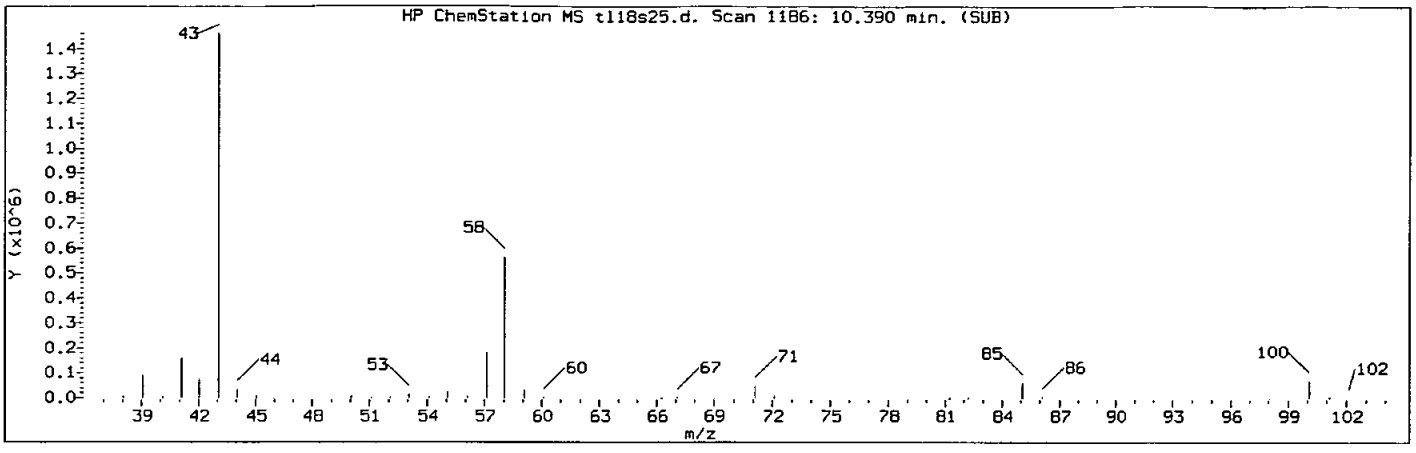
Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 1163
Calibration date and time: 18-JUL-2012 20:35
Date, time and analyst ID of latest file update: 18-Jul-2012 20:35 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

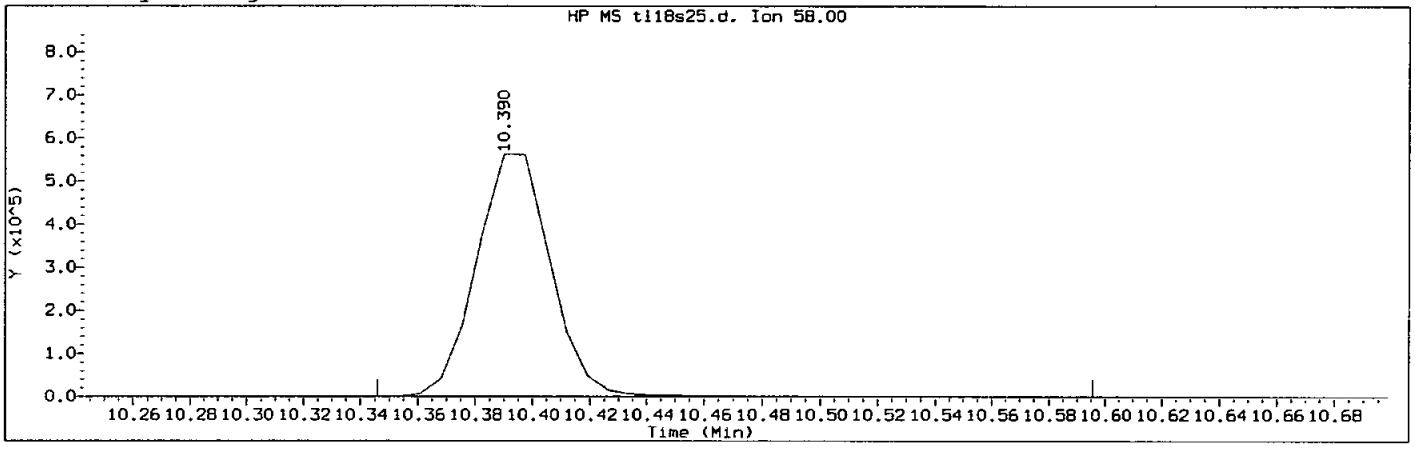
Compound Number	: 21		
Compound Name	: Acetone		
Scan Number	: 257		
Retention Time (minutes)	: 3.577		
Quant Ion	: 58.00		
Area	: 134637		
On-column Amount (ng)	: 118.6623		
Integration start scan	: 238	Integration stop scan:	284
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 07/18/2012 at 20:39.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/t118s25.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 20:21 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 1163
Calibration date and time: 18-JUL-2012 20:35
Date, time and analyst ID of latest file update: 18-Jul-2012 20:39 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

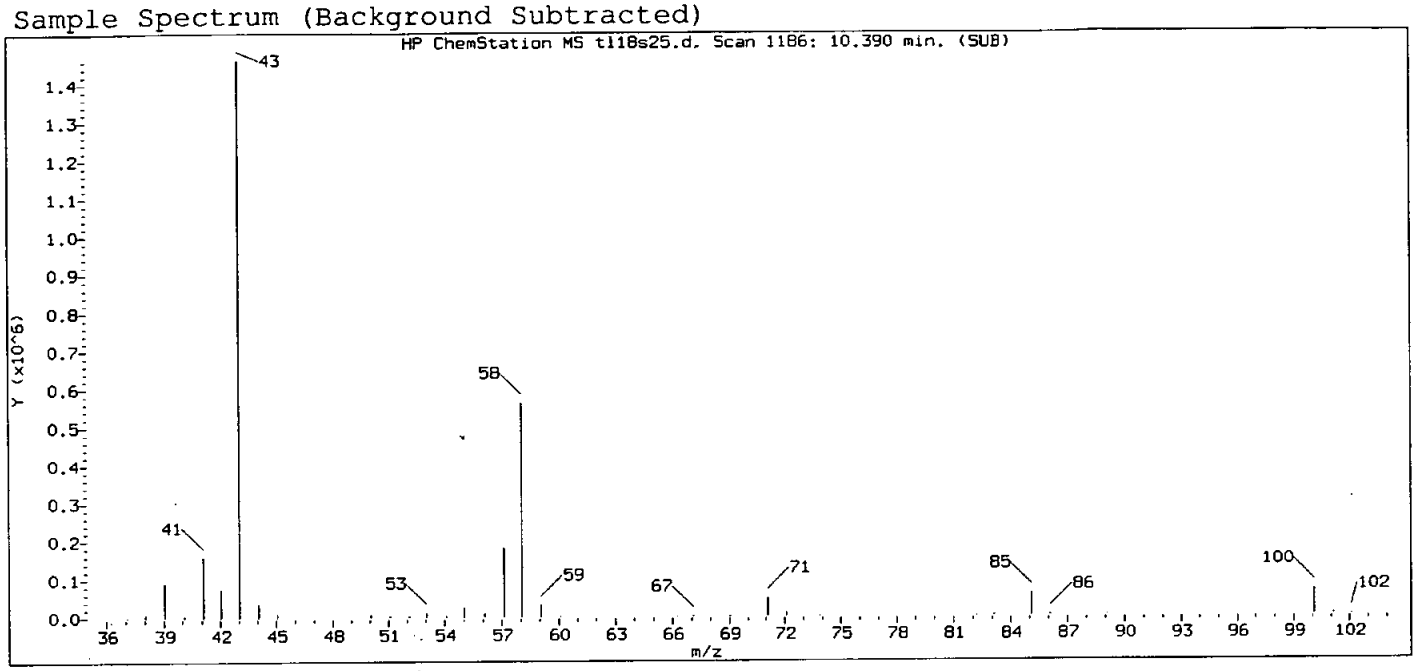
Compound Number	: 101		
Compound Name	: 2-Hexanone		
Scan Number	: 1186		
Retention Time (minutes)	: 10.390		
Quant Ion	: 58.00		
Area (flag)	: 1023710M		
On-Column Amount (ng)	: 156.6920		
Integration start scan	: 1179	Integration stop scan:	1213
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

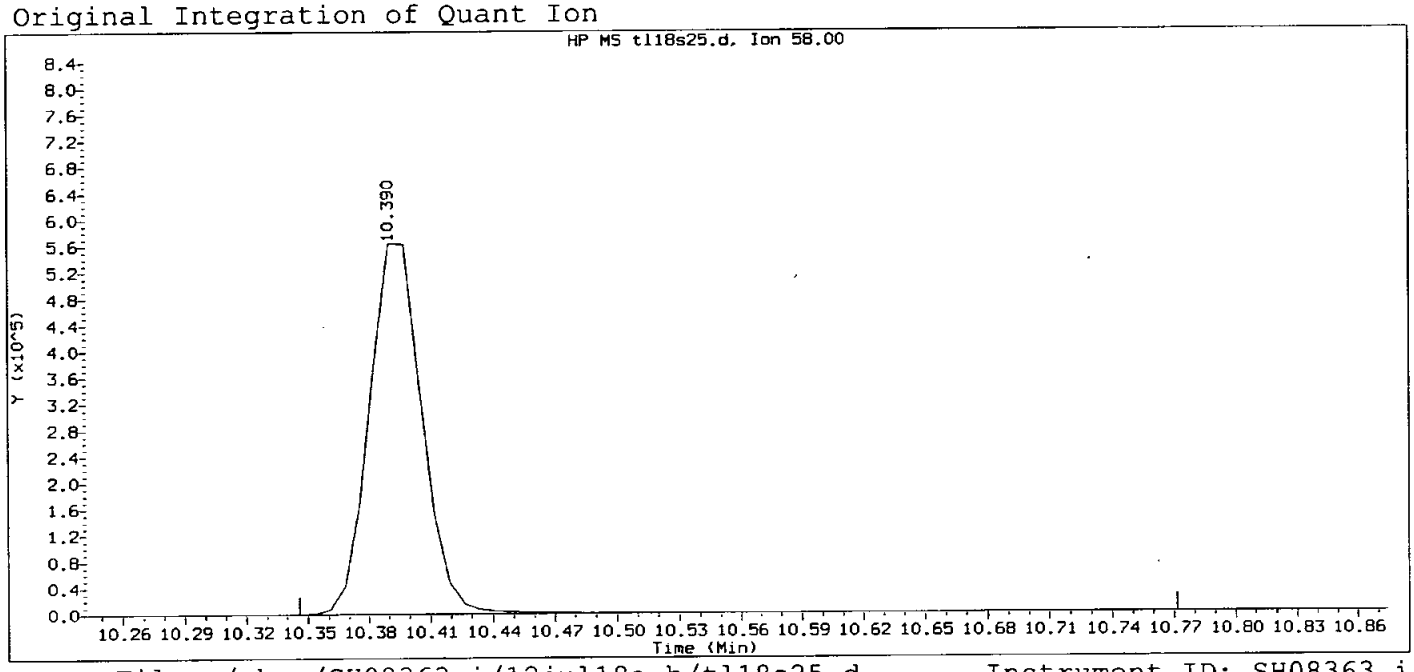
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 20:39. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Christine M. Ratcliff on 07/23/2012 at 12:09.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 20:21 Analyst ID: LCP00895

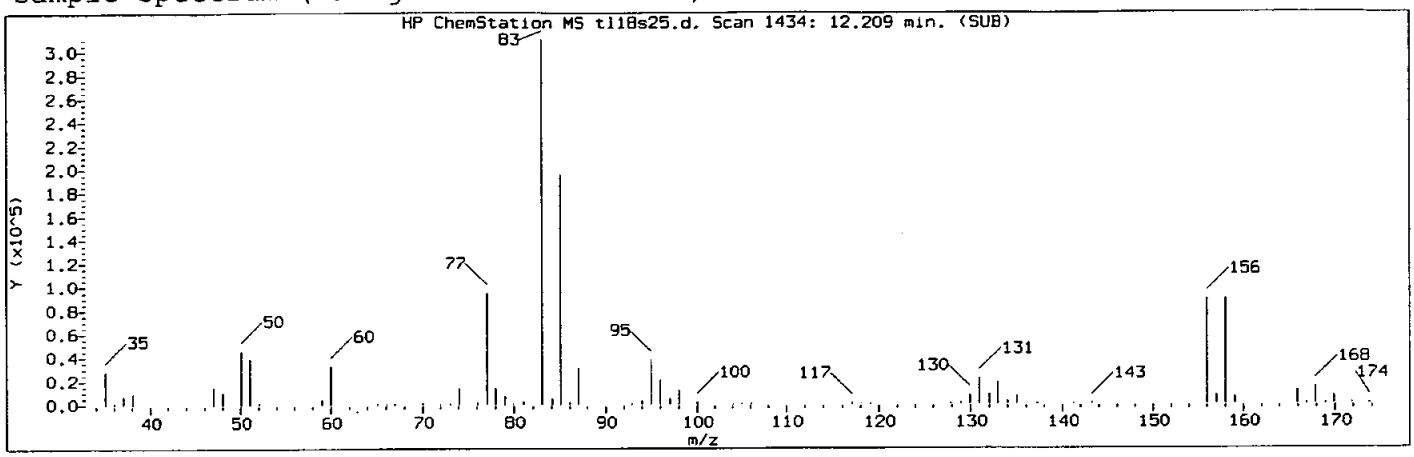
Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 1163
Calibration date and time: 18-JUL-2012 20:35
Date, time and analyst ID of latest file update: 18-Jul-2012 20:35 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

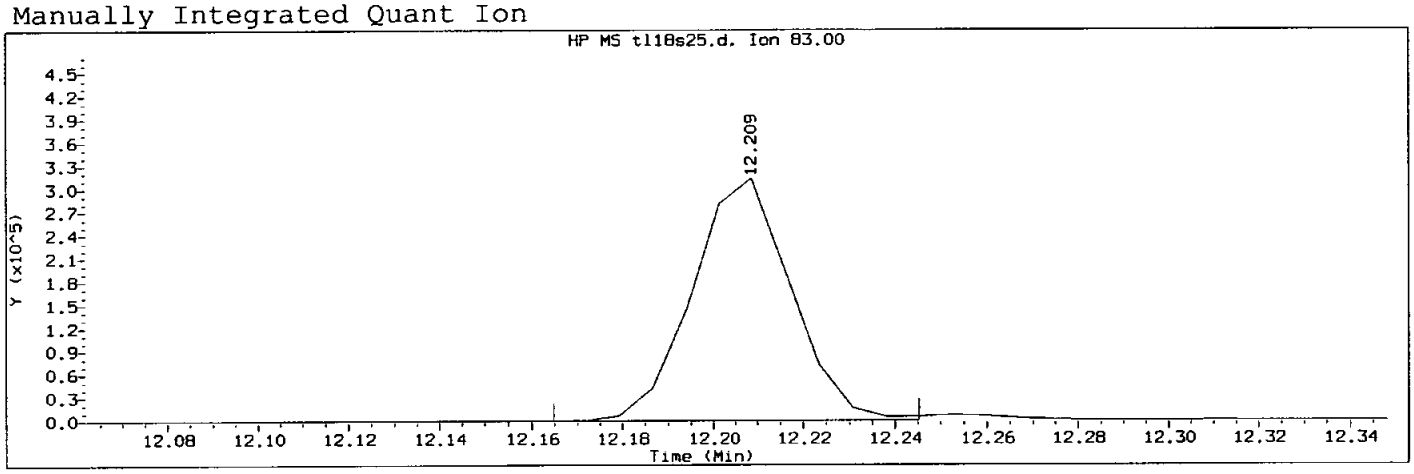
Compound Number : 101
Compound Name : 2-Hexanone
Scan Number : 1186
Retention Time (minutes): 10.390
Quant Ion : 58.00
Area : 1024818
On-column Amount (ng) : 156.8616
Integration start scan : 1179 Integration stop scan: 1237
Y at integration start : 0 Y at integration end: 0

Digitally signed by Sarah A. Guill on 07/18/2012 at 20:39.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 20:21 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 1163
Calibration date and time: 18-JUL-2012 20:35
Date, time and analyst ID of latest file update: 18-Jul-2012 20:39 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

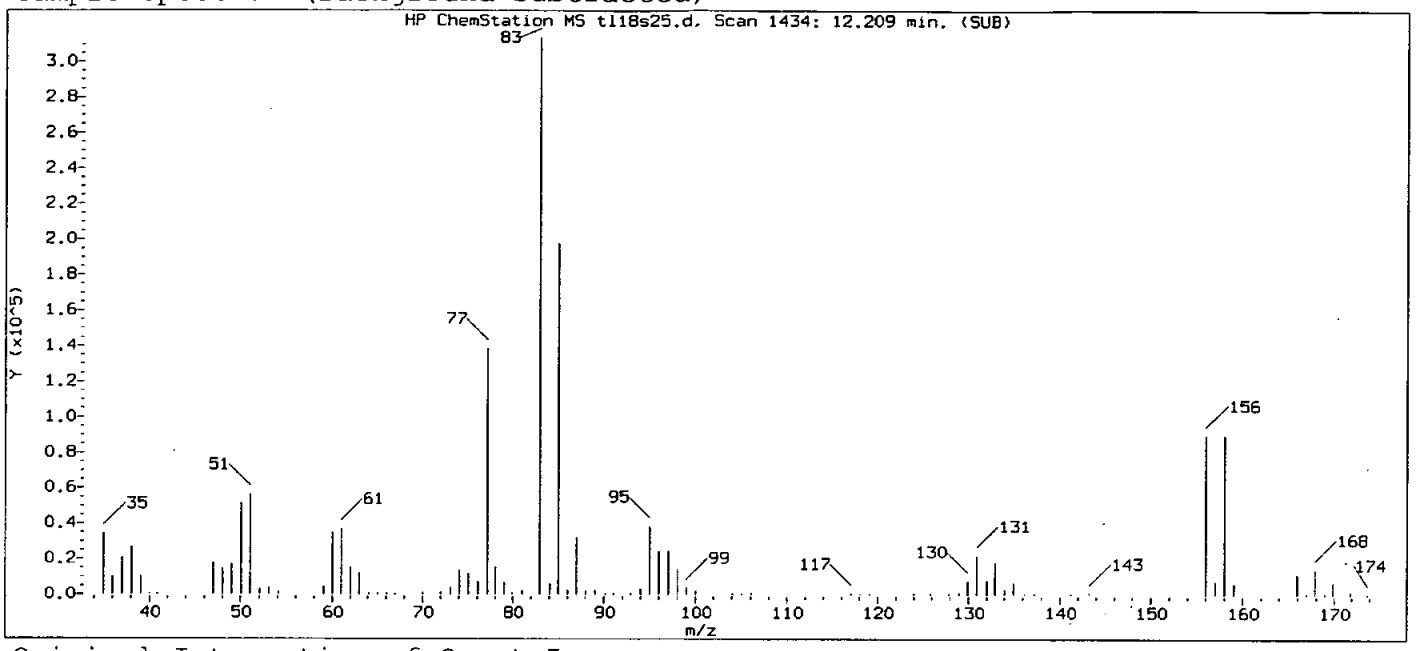
Compound Number	: 126		
Compound Name	: 1,1,2,2-Tetrachloroethane		
Scan Number	: 1434		
Retention Time (minutes)	: 12.209		
Quant Ion	: 83.00		
Area (flag)	: 478040M		
On-Column Amount (ng)	: 49.5222		
Integration start scan	: 1427	Integration stop scan:	1438
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

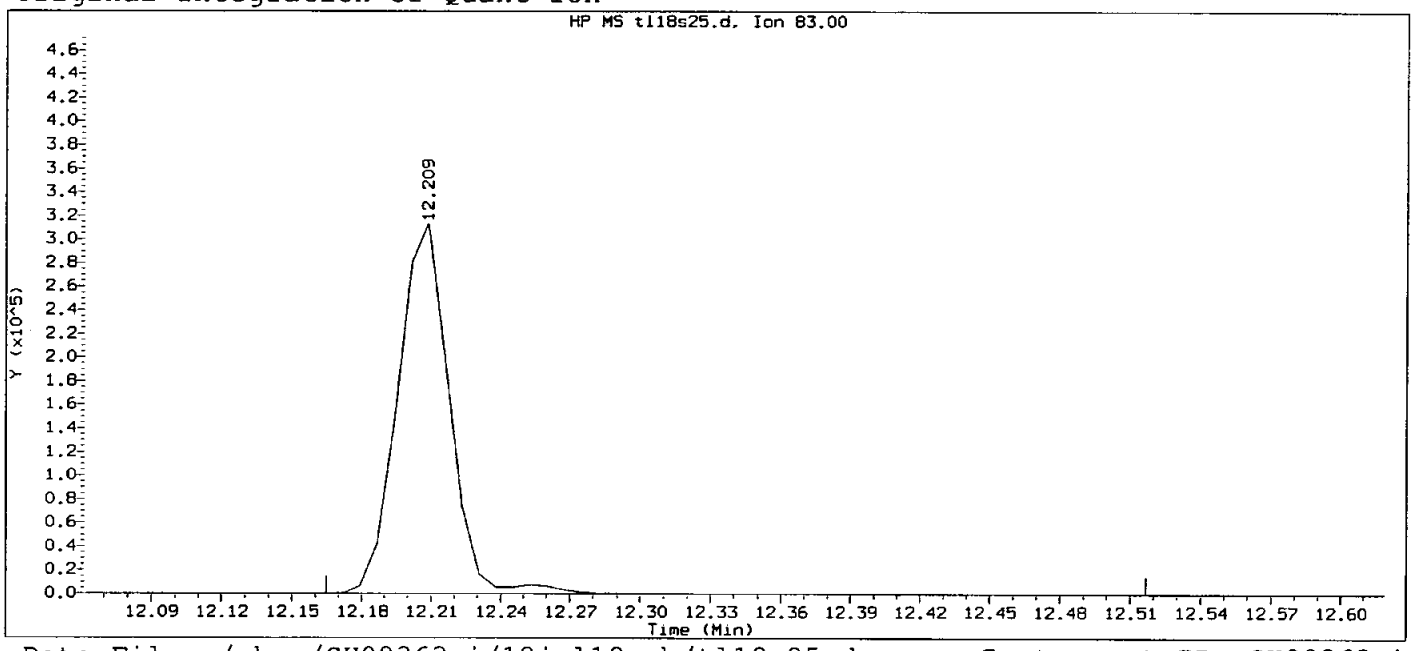
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 20:39. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Christine M. Ratcliff on 07/23/2012 at 12:09.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s25.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 20:21 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 1163
Calibration date and time: 18-JUL-2012 20:35
Date, time and analyst ID of latest file update: 18-Jul-2012 20:35 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 126
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1434
Retention Time (minutes): 12.209
Quant Ion : 83.00
Area : 486842
On-column Amount (ng) : 50.4340
Integration start scan : 1427 Integration stop scan: 1475
Y at integration start : 0 Y at integration end: 0

Digitally signed by Sarah A. Guill on 07/18/2012 at 20:39.
Target 3.5 esignature user ID: sag03174

Raw QC Data

VBLKB63

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

VBLKB63

Data file: /chem2/HP09953.i/12jul24a.b/bl24b02.d
Data file Sample Info. Line: VBLKB63;VBLKB63;2;3;;;;;;
Date, time and analyst ID of latest file update: 24-Jul-2012 12:05 kel01973

Injection date and time: **24-JUL-2012 11:25**
Instrument ID: **HP09953.i** Batch: **B122061AA**

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/bl24b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **8260S-E+SM**
Calibration date and time (Last Method Edit): 24-JUL-2012 12:02
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/bl24c01.d**

Bottle Code: Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5 g

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Change)	Conc. (on-column)	QC Flag
28) t-Butyl Alcohol-d10	2.210(0.012)	227	65	76305 (-8)	250.00	
73) Fluorobenzene	4.345(0.006)	578	96	957353 (-7)	50.00	
106) Chlorobenzene-d5	7.539(0.000)	1103	117	697833 (-6)	50.00	
137) 1,4-Dichlorobenzene-d4	9.523(0.000)	1429	152	407371 (-8)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
53) Dibromofluoromethane	(1)	3.707(0.000)	113	223610	49.212	98%		50 - 141
62) 1,2-Dichloroethane-d4	(1)	4.023(-0.001)	102	49848	52.026	104%		54 - 135
90) Toluene-d8	(2)	5.982(0.001)	98	924112	49.129	98%		52 - 141
120) 4-Bromofluorobenzene	(2)	8.622(0.000)	95	332693	48.551	97%		50 - 131

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)			Not Detected					2	5
3) Chloromethane	(1)			Not Detected					2	5
4) Vinyl Chloride	(1)			Not Detected					1	5
11) Ethyl Ether	(1)			Not Detected					2	5
6) Bromomethane	(1)			Not Detected					2	5
7) Chloroethane	(1)			Not Detected					2	5
8) Dichlorofluoromethane	(1)			Not Detected					2	5
9) Trichlorofluoromethane	(1)			Not Detected					2	5
12) Freon 123a	(1)			Not Detected					2	5
13) Acrolein	(4)			Not Detected					20	100
14) 1,1-Dichloroethene	(1)			Not Detected					1	5
18) Freon 113	(1)			Not Detected					2	10
17) Acetone	(1)			Not Detected					7	20
20) Methyl Iodide	(1)			Not Detected					3	5
21) 2-Propanol	(4)			Not Detected					60	100
23) Carbon Disulfide	(1)			Not Detected					1	5
25) Allyl Chloride	(1)			Not Detected					1	5
26) Methyl Acetate	(1)			Not Detected					2	5
27) Methylene Chloride	(1)			Not Detected					2	5
29) t-Butyl Alcohol	(4)			Not Detected					20	100
30) Acrylonitrile	(4)			Not Detected					4	20
31) trans-1,2-Dichloroethene	(1)			Not Detected					1	5
32) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
35) n-Hexane	(1)			Not Detected					1	5
37) 1,1-Dichloroethane	(1)			Not Detected					1	5
41) 2-Chloro-1,3-Butadiene	(1)			Not Detected					1	5
38) Vinyl Acetate	(1)			Not Detected					2	10
40) di-Isopropyl Ether	(1)			Not Detected					1	5
43) Ethyl t-Butyl Ether	(1)			Not Detected					1	5
44) cis-1,2-Dichloroethene	(1)			Not Detected					1	5

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 12:05. Target 3.5 esignature user ID: kel01973

ASX73 0459

VBLKB63 Lancaster Laboratories Analysis Summary for GC/MS Volatiles VBLKB63

Data file: /chem2/HP09953.i/12jul24a.b/bl24b02.d
Data file Sample Info. Line: VBLKB63;VBLKB63;2;3;;;;;;
Date, time and analyst ID of latest file update: 24-Jul-2012 12:05 kel01973

Injection date and time: **24-JUL-2012 11:25**
Instrument ID: **HP09953.i** Batch: **B122061AA**

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/bl24b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **8260S-E+SM**
Calibration date and time (Last Method Edit): 24-JUL-2012 12:02
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/bl24c01.d**

Bottle Code: Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5 g

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
69) 1,2-Dichloroethene (total)	(1)				Not Detected					1	5
45) 2,2-Dichloropropane	(1)				Not Detected					1	5
46) 2-Butanone	(1)				Not Detected					4	10
48) Propionitrile	(4)				Not Detected					30	100
49) Methacrylonitrile	(4)				Not Detected					5	50
50) Bromochloromethane	(1)				Not Detected					1	5
51) Tetrahydrofuran	(4)				Not Detected					4	5
52) Chloroform	(1)				Not Detected					1	5
55) 1,1,1-Trichloroethane	(1)				Not Detected					1	5
57) Cyclohexane	(1)				Not Detected					1	5
59) 1,1-Dichloropropene	(1)				Not Detected					1	5
60) Carbon Tetrachloride	(1)				Not Detected					1	5
65) Benzene	(1)				Not Detected					0.5	5
64) Isobutyl Alcohol	(4)				Not Detected					100	250
66) 1,2-Dichloroethane	(1)				Not Detected					1	5
71) t-Amyl Methyl Ether	(1)				Not Detected					1	5
72) n-Heptane	(1)				Not Detected					3	5
74) n-Butanol	(4)				Not Detected					110	250
75) Trichloroethene	(1)				Not Detected					1	5
77) Methylcyclohexane	(1)				Not Detected					1	5
78) 1,2-Dichloropropane	(1)				Not Detected					1	5
79) Dibromomethane	(1)				Not Detected					1	5
81) 1,4-Dioxane	(4)				Not Detected					70	250
80) Methyl Methacrylate	(1)				Not Detected					1	5
83) Bromodichloromethane	(1)				Not Detected					1	5
84) 2-Nitropropane	(4)				Not Detected					3	10
86) 2-Chloroethyl Vinyl Ether	(1)				Not Detected					2	10
87) cis-1,3-Dichloropropene	(1)				Not Detected					1	5
89) 4-Methyl-2-Pentanone	(1)				Not Detected					3	10
92) Toluene	(2)				Not Detected					1	5
93) trans-1,3-Dichloropropene	(2)				Not Detected					1	5
95) Ethyl Methacrylate	(2)				Not Detected					1	5
96) 1,1,2-Trichloroethane	(2)				Not Detected					1	5
97) Tetrachloroethene	(2)				Not Detected					1	5
98) 1,3-Dichloropropane	(2)				Not Detected					1	5
100) 2-Hexanone	(2)				Not Detected					3	10
103) Dibromochloromethane	(2)				Not Detected					1	5
105) 1,2-Dibromoethane	(2)				Not Detected					1	5
107) Chlorobenzene	(2)				Not Detected					1	5
108) 1,1,1,2-Tetrachloroethane	(2)				Not Detected					1	5
109) Ethylbenzene	(2)				Not Detected					1	5
110) m+p-Xylene	(2)				Not Detected					1	5
112) Xylene (Total)	(2)				Not Detected					1	5
113) o-Xylene	(2)				Not Detected					1	5
115) Styrene	(2)				Not Detected					1	5
116) Bromoform	(2)				Not Detected					1	5
117) Isopropylbenzene	(2)				Not Detected					1	5
118) Cyclohexanone	(4)				Not Detected					25	250
122) Bromobenzene	(3)				Not Detected					1	5
123) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					1	5
124) 1,2,3-Trichloropropane	(3)				Not Detected					1	5
125) trans-1,4-Dichloro-2-Butene	(3)				Not Detected					10	50
126) n-Propylbenzene	(3)				Not Detected					1	5

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 12:05. Target 3.5 esignature user ID: kel01973

ASX73 0456

VBLKB63 Lancaster Laboratories Analysis Summary for GC/MS Volatiles VBLKB63

Data file: /chem2/HP09953.i/12jul24a.b/bl24b02.d
Data file Sample Info. Line: VBLKB63;VBLKB63;2;3;;;;;;
Date, time and analyst ID of latest file update: 24-Jul-2012 12:05 kel01973

Injection date and time: **24-JUL-2012 11:25**
Instrument ID: **HP09953.i** Batch: **B122061AA**

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/bl24b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **8260S-E+SM**
Calibration date and time (Last Method Edit): 24-JUL-2012 12:02
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/bl24c01.d**

Bottle Code: Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5 g

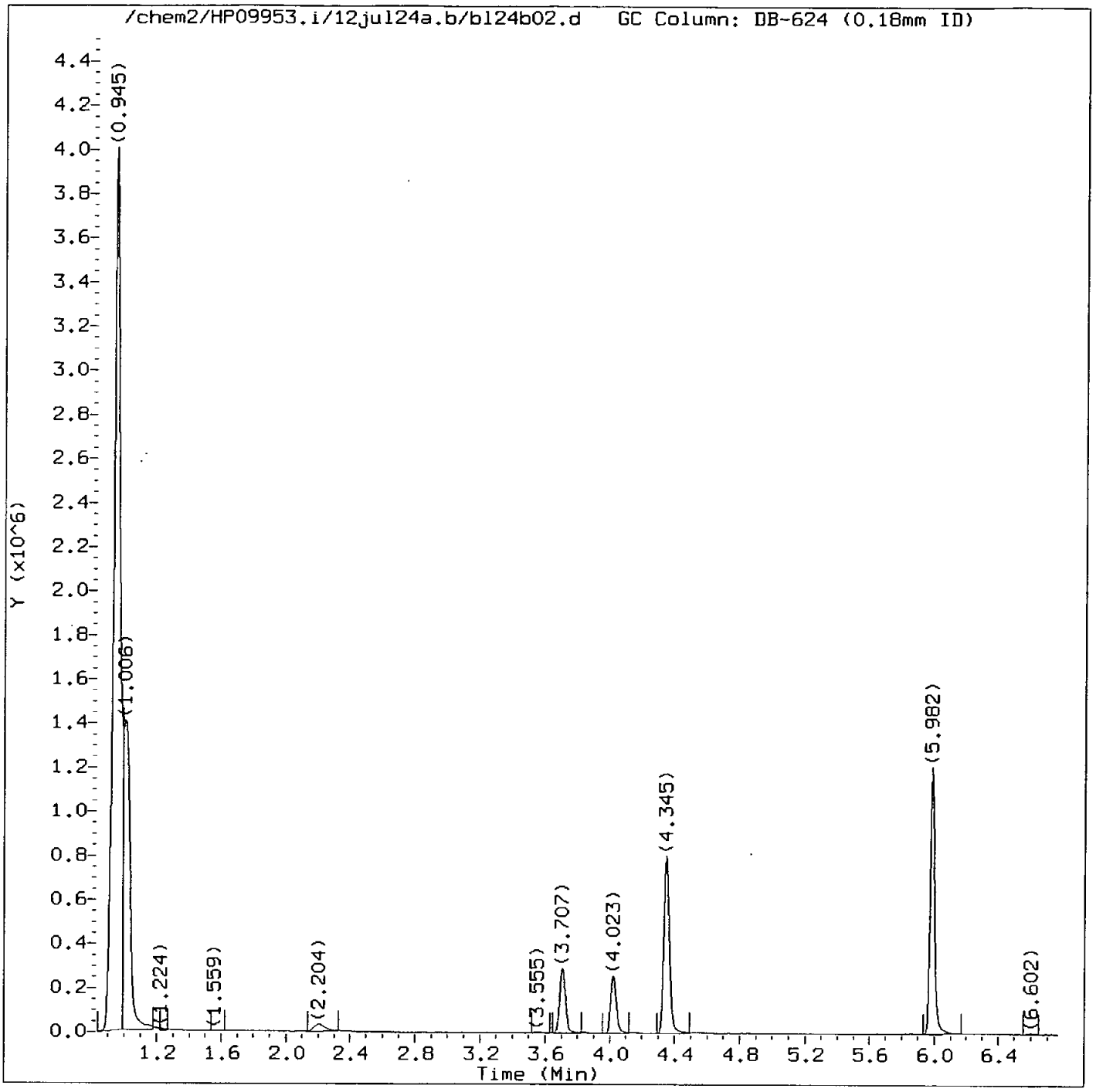
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
127) 2-Chlorotoluene	(3)				Not Detected					1	5
128) 1,3,5-Trimethylbenzene	(3)				Not Detected					1	5
129) 4-Chlorotoluene	(3)				Not Detected					1	5
131) tert-Butylbenzene	(3)				Not Detected					1	5
132) Pentachloroethane	(3)				Not Detected					1	5
133) 1,2,4-Trimethylbenzene	(3)				Not Detected					1	5
134) sec-Butylbenzene	(3)				Not Detected					1	5
135) 1,3-Dichlorobenzene	(3)				Not Detected					1	5
136) p-Isopropyltoluene	(3)				Not Detected					1	5
138) 1,4-Dichlorobenzene	(3)				Not Detected					1	5
139) 1,2,3-Trimethylbenzene	(3)				Not Detected					1	5
140) Benzyl Chloride	(3)				Not Detected					1	5
144) 1,2-Dichlorobenzene	(3)				Not Detected					1	5
143) n-Butylbenzene	(3)				Not Detected					1	5
141) 1,3-Diethylbenzene	(3)				Not Detected					1	5
142) 1,4-Diethylbenzene	(3)				Not Detected					1	5
145) 1,2-Diethylbenzene	(3)				Not Detected					1	5
147) 1,2-Dibromo-3-Chloropropane	(3)				Not Detected					2	5
149) 1,3,5-Trichlorobenzene	(3)				Not Detected					1	5
150) 1,2,4-Trichlorobenzene	(3)				Not Detected					1	5
152) Hexachlorobutadiene	(3)				Not Detected					2	5
153) Naphthalene	(3)				Not Detected					1	5
154) 1,2,3-Trichlorobenzene	(3)				Not Detected					1	5
155) 2-Methylnaphthalene	(3)				Not Detected					2	5

Total number of targets = 107

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 12:05. Target 3.5 esignature user ID: kel01973

Secondary review performed and digitally signed by Abraham H. Uysal on 07/25/2012 at 14:17. Parallax ID: ahu01800

ASX73 0421



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24b02.d
Injection date and time: 24-JUL-2012 11:25

Instrument ID: HP09953.i
Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m
Calibration date and time: 24-JUL-2012 12:02

Sublist used: 8260S-E+SM

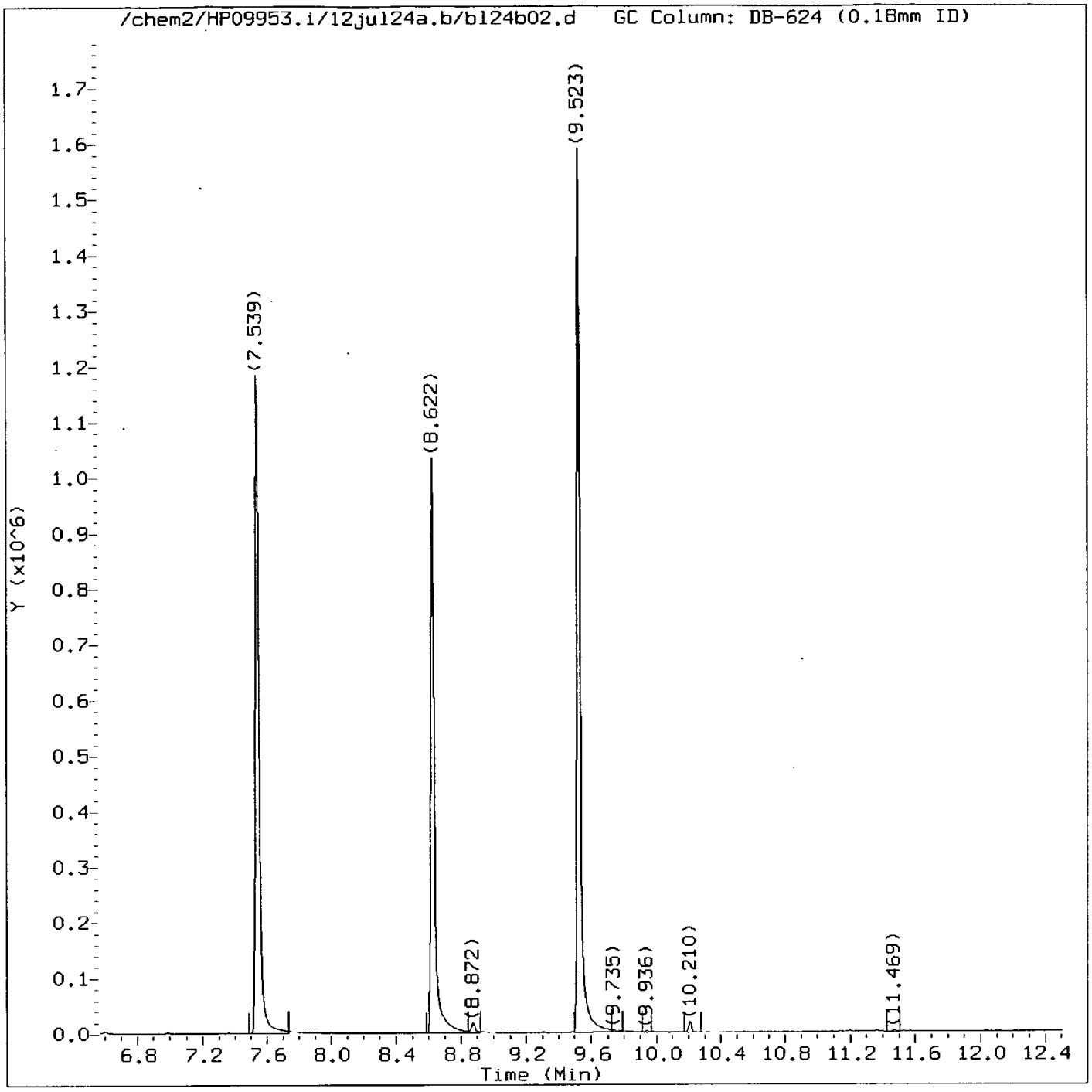
Date, time and analyst ID of latest file update: 24-Jul-2012 12:05 kel01973

Sample Name: VBLKB63

Lab Sample ID: VBLKB63

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 12:05.
Target 3.5 esignature user ID: kel01973

ASX73 0462



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24b02.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:25 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E+SM
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:05 kel01973

Sample Name: VBLKB63 Lab Sample ID: VBLKB63

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 12:05.
Target 3.5 esignature user ID: kel01973

ASX73 9463

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24b02.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:25 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E+SM
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:05 kel01973

Sample Name: VBLKB63 Lab Sample ID: VBLKB63

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
28)*t-Butyl Alcohol-d10	(4)	2.210	65	76305	250.000
53)$Dibromofluoromethane	(1)	3.707	113	223610	49.212
62)$1,2-Dichloroethane-d4	(1)	4.023	102	49848	52.026
73)*Fluorobenzene	(1)	4.345	96	957353	50.000
90)$Toluene-d8	(2)	5.982	98	924112	49.129
106)*Chlorobenzene-d5	(2)	7.539	117	697833	50.000
120)$4-Bromofluorobenzene	(2)	8.622	95	332693	48.551
137)*1,4-Dichlorobenzene-d4	(3)	9.523	152	407371	50.000

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 12:05.
Target 3.5 esignature user ID: kel01973

VBLKT71

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

VBLKT71

Data file: /chem/SH08363.i/12jul18a.b/tl18s03.d
Data file Sample Info. Line: VBLKT71;VBLKT71;1;3;;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:19 sag03174

Injection date and time: **18-JUL-2012 10:52**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Change)	Conc. (on-column)	QC Flag
28) t-Butyl Alcohol-d10	4.193(0.022)	341	65	315845 (-10)	250.00	
70) Fluorobenzene	7.633(0.007)	810	96	955801 (-7)	50.00	
107) Chlorobenzene-d5	11.101(0.000)	1283	117	628112 (-9)	50.00	
141) 1,4-Dichlorobenzene-d4	12.986(0.000)	1540	152	311216 (-12)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.760(-0.001)	113	266947	49.041	98%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	7.207(0.000)	102	65736	49.794	100%		77 - 113
90) Toluene-d8	(2)	9.642(0.000)	98	856622	49.950	100%		80 - 113
124) 4-Bromofluorobenzene	(2)	12.106(0.000)	95	352380	49.666	99%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)			Not Detected					2	5
2) Chloromethane	(1)			Not Detected					1	5
4) Vinyl Chloride	(1)			Not Detected					1	5
7) Bromomethane	(1)			Not Detected					1	5
8) Chloroethane	(1)			Not Detected					1	5
13) Trichlorofluoromethane	(1)			Not Detected					2	5
15) Ethyl Ether	(1)			Not Detected					2	5
17) Acrolein	(4)			Not Detected					40	100
18) 1,1-Dichloroethene	(1)			Not Detected					0.8	5
19) Freon 113	(1)			Not Detected					2	10
21) Acetone	(1)			Not Detected					6	20
23) 2-Propanol	(4)			Not Detected					50	100
22) Methyl Iodide	(1)			Not Detected					1	5
24) Carbon Disulfide	(1)			Not Detected					1	5
26) Methyl Acetate	(1)			Not Detected					1	5
25) Allyl Chloride	(1)			Not Detected					1	5
27) Methylene Chloride	(1)			Not Detected					2	5
29) t-Butyl Alcohol	(4)			Not Detected					10	80
30) Acrylonitrile	(1)			Not Detected					4	20
32) trans-1,2-Dichloroethene	(1)			Not Detected					0.8	5
31) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
34) n-Hexane	(1)			Not Detected					2	5
36) 1,1-Dichloroethane	(1)			Not Detected					1	5
37) di-Isopropyl Ether	(1)			Not Detected					0.8	5
40) 2-Chloro-1,3-Butadiene	(1)			Not Detected					1	5
42) Ethyl t-Butyl Ether	(1)			Not Detected					0.8	5
45) 2-Butanone	(1)			Not Detected					3	10
44) cis-1,2-Dichloroethene	(1)			Not Detected					0.8	5
41) 1,2-Dichloroethene (total)	(1)			Not Detected					0.8	5
43) 2,2-Dichloropropane	(1)			Not Detected					1	5
46) Propionitrile	(4)			Not Detected					30	100

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:21. Target 3.5 esignature user ID: sag03174

ASX73 0465

VBLKT71

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

VBLKT71

Data file: /chem/SH08363.i/12jul18a.b/tl18s03.d
Data file Sample Info. Line: VBLKT71;VBLKT71;1;3;;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:19 sag03174

Injection date and time: **18-JUL-2012 10:52**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
47) Methacrylonitrile	(1)			Not Detected					10	50
49) Bromochloromethane	(1)			Not Detected					1	5
50) Tetrahydrofuran	(4)			Not Detected					4	10
52) Chloroform	(1)			Not Detected					0.8	5
55) 1,1,1-Trichloroethane	(1)			Not Detected					0.8	5
58) Cyclohexane	(1)			Not Detected					2	5
59) 1,1-Dichloropropene	(1)			Not Detected					1	5
60) Carbon Tetrachloride	(1)			Not Detected					1	5
61) Isobutyl Alcohol	(4)			Not Detected					100	250
65) Benzene	(1)			Not Detected					0.5	5
66) 1,2-Dichloroethane	(1)			Not Detected					1	5
68) t-Amyl Methyl Ether	(1)			Not Detected					0.8	5
69) n-Heptane	(1)			Not Detected					2	5
73) n-Butanol	(4)			Not Detected					100	250
74) Trichloroethene	(1)			Not Detected					1	5
76) Methylcyclohexane	(1)			Not Detected					1	5
79) 1,2-Dichloropropane	(1)			Not Detected					1	5
80) Dibromomethane	(1)			Not Detected					1	5
82) 1,4-Dioxane	(4)			Not Detected					70	250
81) Methyl Methacrylate	(1)			Not Detected					1	5
83) Bromodichloromethane	(1)			Not Detected					1	5
84) 2-Nitropropane	(1)			Not Detected					2	10
85) 2-Chloroethyl Vinyl Ether	(1)			Not Detected					2	10
87) cis-1,3-Dichloropropene	(1)			Not Detected					1	5
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3	10
93) Toluene	(2)			Not Detected					0.7	5
96) trans-1,3-Dichloropropene	(2)			Not Detected					1	5
97) Ethyl Methacrylate	(2)			Not Detected					1	5
98) 1,1,2-Trichloroethane	(2)			Not Detected					0.8	5
99) Tetrachloroethene	(2)			Not Detected					0.8	5
100) 1,3-Dichloropropane	(2)			Not Detected					1	5
101) 2-Hexanone	(2)			Not Detected					3	10
103) Dibromochloromethane	(2)			Not Detected					1	5
104) 1,2-Dibromoethane	(2)			Not Detected					1	5
108) Chlorobenzene	(2)			Not Detected					0.8	5
111) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1	5
114) Ethylbenzene	(2)			Not Detected					0.8	5
115) m+p-Xylene	(2)			Not Detected					0.8	5
116) Xylene (Total)	(2)			Not Detected					0.8	5
117) o-Xylene	(2)			Not Detected					0.8	5
119) Styrene	(2)			Not Detected					1	5
120) Bromoform	(2)			Not Detected					1	5
121) Isopropylbenzene	(2)			Not Detected					1	5
126) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1	5
127) Bromobenzene	(3)			Not Detected					1	5
129) trans-1,4-Dichloro-2-Butene	(3)			Not Detected					15	50
128) 1,2,3-Trichloropropane	(3)			Not Detected					1	5
130) n-Propylbenzene	(3)			Not Detected					1	5
131) 2-Chlorotoluene	(3)			Not Detected					1	5
132) 1,3,5-Trimethylbenzene	(3)			Not Detected					1	5
133) 4-Chlorotoluene	(3)			Not Detected					1	5
134) tert-Butylbenzene	(3)			Not Detected					1	5
135) Pentachloroethane	(3)			Not Detected					1	5
137) 1,2,4-Trimethylbenzene	(3)			Not Detected					1	5

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ASX73 0466

VBLKT71 Lancaster Laboratories Analysis Summary for GC/MS Volatiles VBLKT71

Data file: /chem/SH08363.i/12jul18a.b/tl18s03.d
Data file Sample Info. Line: VBLKT71;VBLKT71;1;3;;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:19 sag03174

Injection date and time: **18-JUL-2012 10:52**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

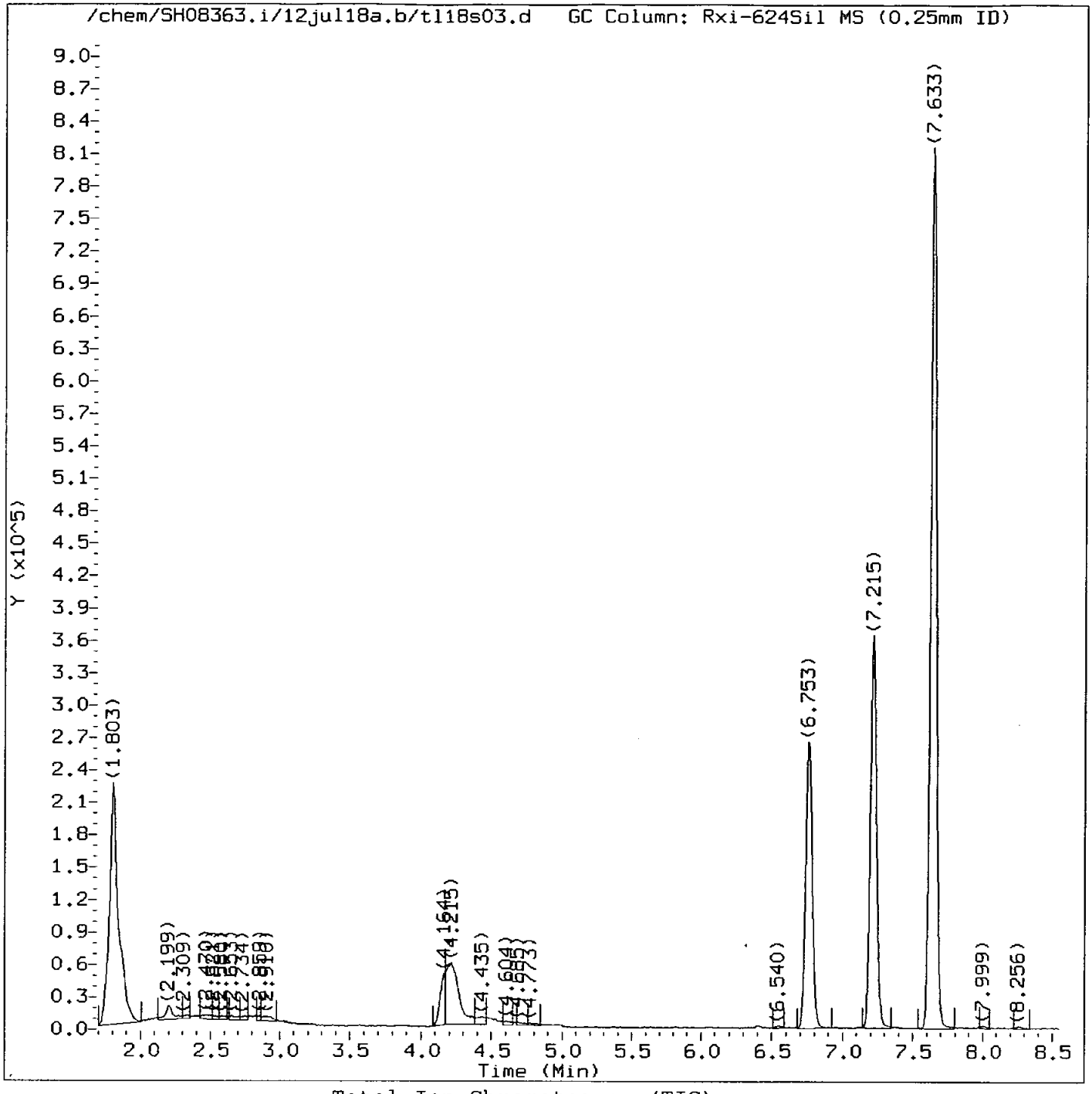
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
138) sec-Butylbenzene	(3)				Not Detected					1	5
139) 1,3-Dichlorobenzene	(3)				Not Detected					1	5
140) p-Isopropyltoluene	(3)				Not Detected					1	5
142) 1,4-Dichlorobenzene	(3)				Not Detected					1	5
143) 1,2,3-Trimethylbenzene	(3)				Not Detected					1	5
144) Benzyl Chloride	(3)				Not Detected					1	5
145) 1,3-Diethylbenzene	(3)				Not Detected					1	5
146) 1,4-Diethylbenzene	(3)				Not Detected					1	5
147) n-Butylbenzene	(3)				Not Detected					1	5
148) 1,2-Dichlorobenzene	(3)				Not Detected					1	5
149) 1,2-Diethylbenzene	(3)				Not Detected					1	5
151) 1,2-Dibromo-3-Chloropropane	(3)				Not Detected					2	5
153) 1,3,5-Trichlorobenzene	(3)				Not Detected					1	5
154) 1,2,4-Trichlorobenzene	(3)				Not Detected					1	5
155) Hexachlorobutadiene	(3)				Not Detected					2	5
156) Naphthalene	(3)				Not Detected					1	5
157) 1,2,3-Trichlorobenzene	(3)				Not Detected					1	5

Total number of targets = 102

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:21. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43. Parallax ID: ahu01800

ASX73 0467



Total Ion Chromatogram (TIC)

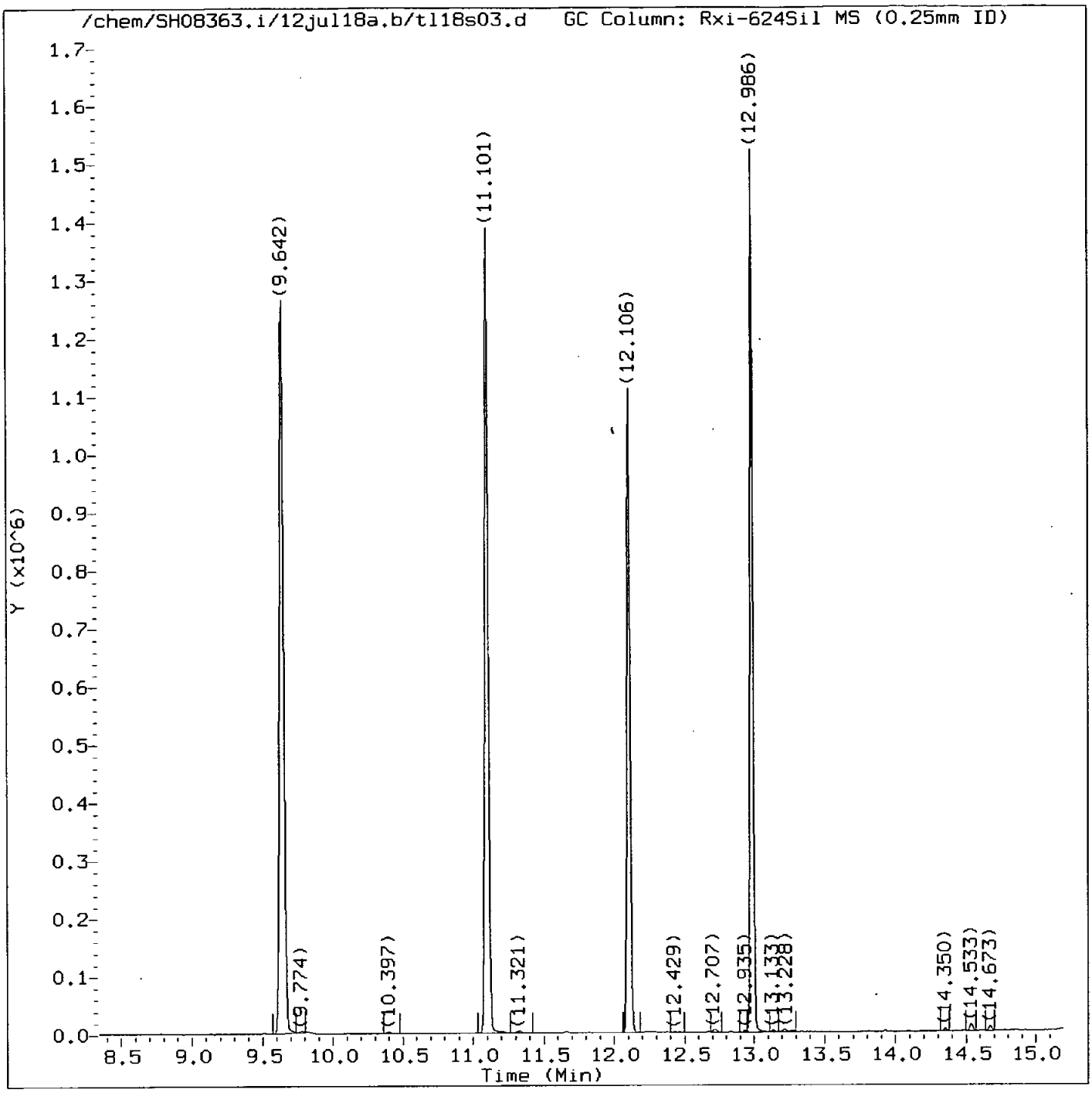
Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s03.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:52 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:19 sag03174

Sample Name: VBLKT71 Lab Sample ID: VBLKT71

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:21.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s03.d
Injection date and time: 18-JUL-2012 10:52

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 8260W-F

Date, time and analyst ID of latest file update: 18-Jul-2012 16:19 sag03174

Sample Name: VBLKT71

Lab Sample ID: VBLKT71

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:21.
Target 3.5 esignature user ID: sag03174

ASX73 9469

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s03.d
Injection date and time: 18-JUL-2012 10:52

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 8260W-F

Date, time and analyst ID of latest file update: 18-Jul-2012 16:19 sag03174

Sample Name: VBLKT71

Lab Sample ID: VBLKT71

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
28)*t-Butyl Alcohol-d10	(4)	4.193	65	315845	250.000
54)$Dibromofluoromethane	(1)	6.760	113	266947	49.041
62)$1,2-Dichloroethane-d4	(1)	7.207	102	65736	49.794
70)*Fluorobenzene	(1)	7.633	96	955801	50.000
90)$Toluene-d8	(2)	9.642	98	856622	49.950
107)*Chlorobenzene-d5	(2)	11.101	117	628112	50.000
124)$4-Bromofluorobenzene	(2)	12.106	95	352380	49.666
141)*1,4-Dichlorobenzene-d4	(3)	12.986	152	311216	50.000

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:21.
Target 3.5 esignature user ID: sag03174

LCSB63 Lancaster Laboratories LCSB63

Analysis Summary for GC/MS Volatiles

Data file: /chem2/HP09953.i/12jul24a.b/bl24101.d Injection date and time: **24-JUL-2012 11:56**
Data file Sample Info. Line: LCSB63;LCSB63;2;3;LCS;;;;bl24b02; Instrument ID: **HP09953.i** Batch: **B122061AA**
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/bl24b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **8260S-E**
Calibration date and time (Last Method Edit): 24-JUL-2012 12:02
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/bl24c01.d**

Bottle Code: Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5 g

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
28) t-Butyl Alcohol-d10	2.222(0.000)	229	65	84090 (1)	250.00	
73) Fluorobenzene	4.357(-0.006)	580	96	987475 (-4)	50.00	
106) Chlorobenzene-d5	7.545(-0.006)	1104	117	714586 (-3)	50.00	
137) 1,4-Dichlorobenzene-d4	9.522(0.000)	1429	152	436803 (-1)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
53) Dibromofluoromethane	(1)	3.713(0.001)	113	234646	50.065	100%		50 - 141
62) 1,2-Dichloroethane-d4	(1)	4.029(0.000)	102	54496	55.142	110%		54 - 135
90) Toluene-d8	(2)	5.988(0.001)	98	966414	50.173	100%		52 - 141
120) 4-Bromofluorobenzene	(2)	8.622(0.001)	95	349413	49.796	100%		50 - 131

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.090(-0.001)	85	152627	15.745	15.75			2	5
3) Chloromethane	(1)	1.133(0.001)	50	161070	16.513	16.51			2	5
4) Vinyl Chloride	(1)	1.212(0.000)	62	149719	17.558	17.56			1	5
6) Bromomethane	(1)	1.382(-0.000)	94	84461	14.924	14.92			2	5
7) Chloroethane	(1)	1.431(-0.000)	64	67996	15.004	15.00			2	5
8) Dichlorofluoromethane	(1)	1.541(0.000)	67	213855	18.672	18.67			2	5
9) Trichlorofluoromethane	(1)	1.553(0.008)	101	174397	18.057	18.06			2	5
12) Freon 123a	(1)	1.717(0.000)	67	129528	18.309	18.31			2	5
13) Acrolein	(4)	1.796(-0.002)	56	119228	132.048	132.05			20	100
14) 1,1-Dichloroethene	(1)	1.863(-0.000)	96	89250	19.004	19.00			1	5
18) Freon 113	(1)	1.887(-0.000)	101	103260	19.770	19.77			2	10
17) Acetone	(1)	1.887(-0.000)	43	198911	144.866	144.87			7	20
20) Methyl Iodide	(1)	1.966(-0.000)	142	177015	18.360	18.36			3	5
21) 2-Propanol	(4)	1.985(-0.002)	45	47553	135.434	135.43			60	100
23) Carbon Disulfide	(1)	2.015(-0.000)	76	252876	16.812	16.81			1	5
25) Allyl Chloride	(1)	2.100(-0.002)	41	146290	15.869	15.87			1	5
26) Methyl Acetate	(1)	2.106(-0.000)	43	62236	17.840	17.84			2	5
27) Methylene Chloride	(1)	2.192(-0.000)	84	104781	17.251	17.25			2	5
29) t-Butyl Alcohol	(4)	2.283(-0.002)	59	76907	134.704	134.70			20	100
30) Acrylonitrile	(4)	2.380(-0.002)	53	164782	83.429	83.43			4	20
31) trans-1,2-Dichloroethene	(1)	2.398(-0.000)	96	110011	18.919	18.92			1	5
32) Methyl Tertiary Butyl Ether	(1)	2.411(-0.002)	73	285218	18.113	18.11			0.5	5
35) n-Hexane	(1)	2.617(-0.000)	57	171753	19.786	19.79			1	5
37) 1,1-Dichloroethane	(1)	2.745(0.000)	63	201335	18.599	18.60			1	5
41) 2-Chloro-1,3-Butadiene	(1)	2.824(-0.000)	53	161402	17.312	17.31			1	5
40) di-Isopropyl Ether	(1)	2.812(-0.000)	45	350118	16.906	16.91			1	5
43) Ethyl t-Butyl Ether	(1)	3.134(0.001)	59	305609	16.467	16.47			1	5
44) cis-1,2-Dichloroethene	(1)	3.268(-0.000)	96	122707	18.523	18.52			1	5
69) 1,2-Dichloroethene (total)	(1)		96	232718	37.442	37.44			1	5
45) 2,2-Dichloropropane	(1)	3.274(-0.000)	77	148237	16.864	16.86			1	5

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LCSB63 Lancaster Laboratories Analysis Summary for GC/MS Volatiles LCSB63

Data file: /chem2/HP09953.i/12jul24a.b/b124l01.d Injection date and time: **24-JUL-2012 11:56**
Data file Sample Info. Line: LCSB63;LCSB63;2;3;LCS;;;;b124b02; Instrument ID: **HP09953.i** Batch: **B122061AA**
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/b124b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **8260S-E**
Calibration date and time (Last Method Edit): 24-JUL-2012 12:02
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/b124c01.d**

Bottle Code: Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5 g

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
46) 2-Butanone	(1)	3.280(0.001)	43	334669	138.359	138.36			4	10
48) Propionitrile	(4)	3.348(-0.002)	54	99507	141.673	141.67			30	100
49) Methacrylonitrile	(4)	3.481(-0.002)	67	294847	143.810	143.81			5	50
50) Bromochloromethane	(1)	3.487(-0.000)	128	57925	18.245	18.24			1	5
51) Tetrahydrofuran	(4)	3.530(-0.002)	71	57817	90.862	90.86			4	5
52) Chloroform	(1)	3.566(-0.000)	83	187930	16.998	17.00			1	5
55) 1,1,1-Trichloroethane	(1)	3.737(-0.000)	97	163587	13.042	13.04			1	5
57) Cyclohexane	(1)	3.779(0.001)	56	207546	18.908	18.91			1	5
59) 1,1-Dichloropropene	(1)	3.883(-0.000)	75	150081M	18.155	18.15			1	5
60) Carbon Tetrachloride	(1)	3.889(-0.000)	117	139073	17.161	17.16			1	5
65) Benzene	(1)	4.084(-0.000)	78	447207	18.020	18.02			0.5	5
64) Isobutyl Alcohol	(4)	4.053(-0.005)	41	72132	397.389	397.39			100	250
66) 1,2-Dichloroethane	(1)	4.102(0.001)	62	136420	17.773	17.77			1	5
71) t-Amyl Methyl Ether	(1)	4.205(0.001)	73	272089	16.590	16.59			1	5
72) n-Heptane	(1)	4.357(0.001)	43	193801	19.116	19.12			3	5
74) n-Butanol	(4)	4.716(-0.000)	56	99130	680.928	680.93			110	250
75) Trichloroethene	(1)	4.722(0.000)	95	114456	17.442	17.44			1	5
77) Methylcyclohexane	(1)	4.911(0.000)	83	219266	19.580	19.58			1	5
78) 1,2-Dichloropropane	(1)	4.947(0.000)	63	116729	18.170	18.17			1	5
79) Dibromomethane	(1)	5.069(0.000)	93	64331	17.631	17.63			1	5
81) 1,4-Dioxane	(4)	5.106(-0.000)	88	22137	394.224	394.22			70	250
80) Methyl Methacrylate	(1)	5.100(0.001)	69	61168	16.440	16.44			1	5
83) Bromodichloromethane	(1)	5.240(0.001)	83	119608	15.771	15.77			1	5
84) 2-Nitropropane	(4)	5.489(-0.000)	41	17075	13.941	13.94			3	10
86) 2-Chloroethyl Vinyl Ether	(1)	5.580(0.001)	63	50054	16.293	16.29			2	10
87) cis-1,3-Dichloropropene	(1)	5.714(0.000)	75	159102	17.647	17.65			1	5
89) 4-Methyl-2-Pentanone	(1)	5.903(0.000)	43	471978	90.393	90.39			3	10
92) Toluene	(2)	6.061(-0.000)	92	280480	16.989	16.99			1	5
93) trans-1,3-Dichloropropene	(2)	6.322(0.000)	75	126630	15.668	15.67			1	5
95) Ethyl Methacrylate	(2)	6.462(-0.000)	69	114220M	16.069	16.07			1	5
96) 1,1,2-Trichloroethane	(2)	6.517(-0.000)	97	87621	17.547	17.55			1	5
97) Tetrachloroethene	(2)	6.645(0.000)	166	135174	17.394	17.39			1	5
98) 1,3-Dichloropropane	(2)	6.693(-0.000)	76	150019	17.831	17.83			1	5
100) 2-Hexanone	(2)	6.821(0.000)	58	167165	91.336	91.34			3	10
103) Dibromochloromethane	(2)	6.931(0.000)	129	91269	16.078	16.08			1	5
105) 1,2-Dibromoethane	(2)	7.040(0.000)	107	88838	17.308	17.31			1	5
107) Chlorobenzene	(2)	7.570(0.000)	112	316474	17.567	17.57			1	5
108) 1,1,1,2-Tetrachloroethane	(2)	7.667(0.000)	131	103544	16.093	16.09			1	5
109) Ethylbenzene	(2)	7.697(0.000)	91	532159	17.102	17.10			1	5
110) m+p-Xylene	(2)	7.813(0.000)	106	432518	34.987	34.99			1	5
112) Xylene (Total)	(2)		106	643945	52.003	52.00			1	5
113) o-Xylene	(2)	8.178(0.000)	106	211427	17.016	17.02			1	5
115) Styrene	(2)	8.190(0.000)	104	328375	16.348	16.35			1	5
116) Bromoform	(2)	8.342(0.000)	173	55378	14.263	14.26			1	5
117) Isopropylbenzene	(2)	8.500(0.000)	105	564340	17.405	17.41			1	5
118) Cyclohexanone	(4)	8.573(-0.002)	55	90866	137.730	137.73		J	25	250
122) Bromobenzene	(3)	8.738(-0.000)	156	141973	15.828	15.83			1	5
123) 1,1,2,2-Tetrachloroethane	(3)	8.762(0.000)	83	118898	16.614	16.61			1	5
124) 1,2,3-Trichloropropane	(3)	8.786(0.000)	110	34788	17.371	17.37			1	5
125) trans-1,4-Dichloro-2-Butene	(3)	8.810(0.000)	53	157199	83.388	83.39			10	50
126) n-Propylbenzene	(3)	8.841(0.000)	91	649053	16.495	16.49			1	5
127) 2-Chlorotoluene	(3)	8.902(-0.000)	126	137954	16.293	16.29			1	5
128) 1,3,5-Trimethylbenzene	(3)	8.993(-0.000)	105	477284	16.383	16.38			1	5

M = Compound was manually integrated.

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ASX73 0472

LCSB63 Lancaster Laboratories LCSB63

Analysis Summary for GC/MS Volatiles

Data file: /chem2/HP09953.i/12jul24a.b/b124101.d
Data file Sample Info. Line: LCSB63;LCSB63;2;3;LCS;;;;b124b02;
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

Injection date and time: **24-JUL-2012 11:56**
Instrument ID: **HP09953.i** Batch: **B122061AA**

Blank Data file reference: **/chem2/HP09953.i/12jul24a.b/b124b02.d**

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: **8260S-E**
Calibration date and time (Last Method Edit): 24-JUL-2012 12:02
Mid Level Daily Calibration Standard Reference: **/chem2/HP09953.i/12jul24a.b/b124c01.d**

Bottle Code: Matrix: SOIL Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * (Vt/Ws) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Weight (Ws): 5 g

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
129) 4-Chlorotoluene	(3)	8.987(0.000)	126	141429	16.510	16.51			1	5
131) tert-Butylbenzene	(3)	9.236(0.000)	134	110815	16.428	16.43			1	5
132) Pentachloroethane	(3)	9.242(0.000)	167	80051	15.141	15.14			1	5
133) 1,2,4-Trimethylbenzene	(3)	9.279(-0.000)	105	478755	16.049	16.05			1	5
134) sec-Butylbenzene	(3)	9.401(0.000)	105	628630	16.848	16.85			1	5
135) 1,3-Dichlorobenzene	(3)	9.474(0.000)	146	274758	16.129	16.13			1	5
136) p-Isopropyltoluene	(3)	9.516(0.000)	119	549238	16.714	16.71			1	5
138) 1,4-Dichlorobenzene	(3)	9.540(-0.000)	146	290064	16.163	16.16			1	5
139) 1,2,3-Trimethylbenzene	(3)	9.583(-0.000)	105	498469	16.647	16.65			1	5
140) Benzyl Chloride	(3)	9.650(-0.000)	91	183721	15.664	15.66			1	5
144) 1,2-Dichlorobenzene	(3)	9.814(-0.000)	146	271514	16.744	16.74			1	5
143) n-Butylbenzene	(3)	9.814(-0.000)	92	266950	16.424	16.42			1	5
141) 1,3-Diethylbenzene	(3)	9.735(-0.000)	119	324057	16.774	16.77			1	5
142) 1,4-Diethylbenzene	(3)	9.796(-0.000)	119	344228	17.125	17.13			1	5
145) 1,2-Diethylbenzene	(3)	9.875(-0.000)	119	281376	16.751	16.75			1	5
147) 1,2-Dibromo-3-Chloropropane	(3)	10.362(-0.000)	75	19731	15.286	15.29			2	5
149) 1,3,5-Trichlorobenzene	(3)	10.502(-0.000)	180	243693M	16.191	16.19			1	5
150) 1,2,4-Trichlorobenzene	(3)	10.915(-0.000)	180	218677	16.632	16.63			1	5
152) Hexachlorobutadiene	(3)	11.025(-0.000)	225	119698	15.881	15.88			2	5
153) Naphthalene	(3)	11.074(-0.000)	128	451205	16.812	16.81			1	5
154) 1,2,3-Trichlorobenzene	(3)	11.226(-0.000)	180	205370	16.598	16.60			1	5
155) 2-Methylnaphthalene	(3)	11.792(-0.000)	142	269174	16.675	16.67			2	5

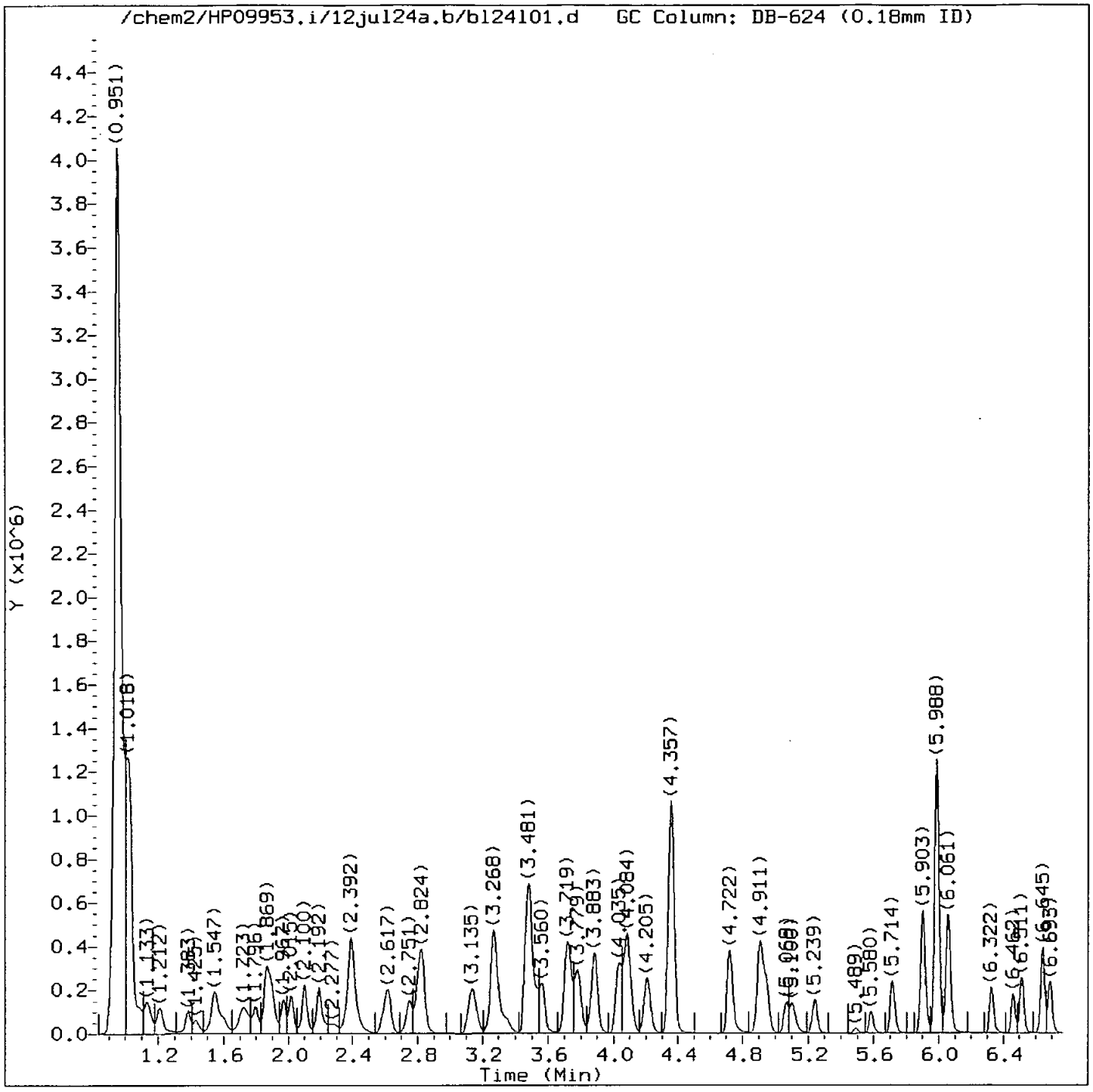
M = Compound was manually integrated.

Total number of targets = 105

Digitally signed by Kerri E. Koch-Legerlotz on 07/24/2012 at 12:38. Target 3.5 esignature user ID: kel01973

Secondary review performed and digitally signed by Abraham H. Uysal on 07/25/2012 at 14:17. Parallax ID: ahu01800

ASX73 0473



Total Ion Chromatogram (TIC)

Target Revision 3.5

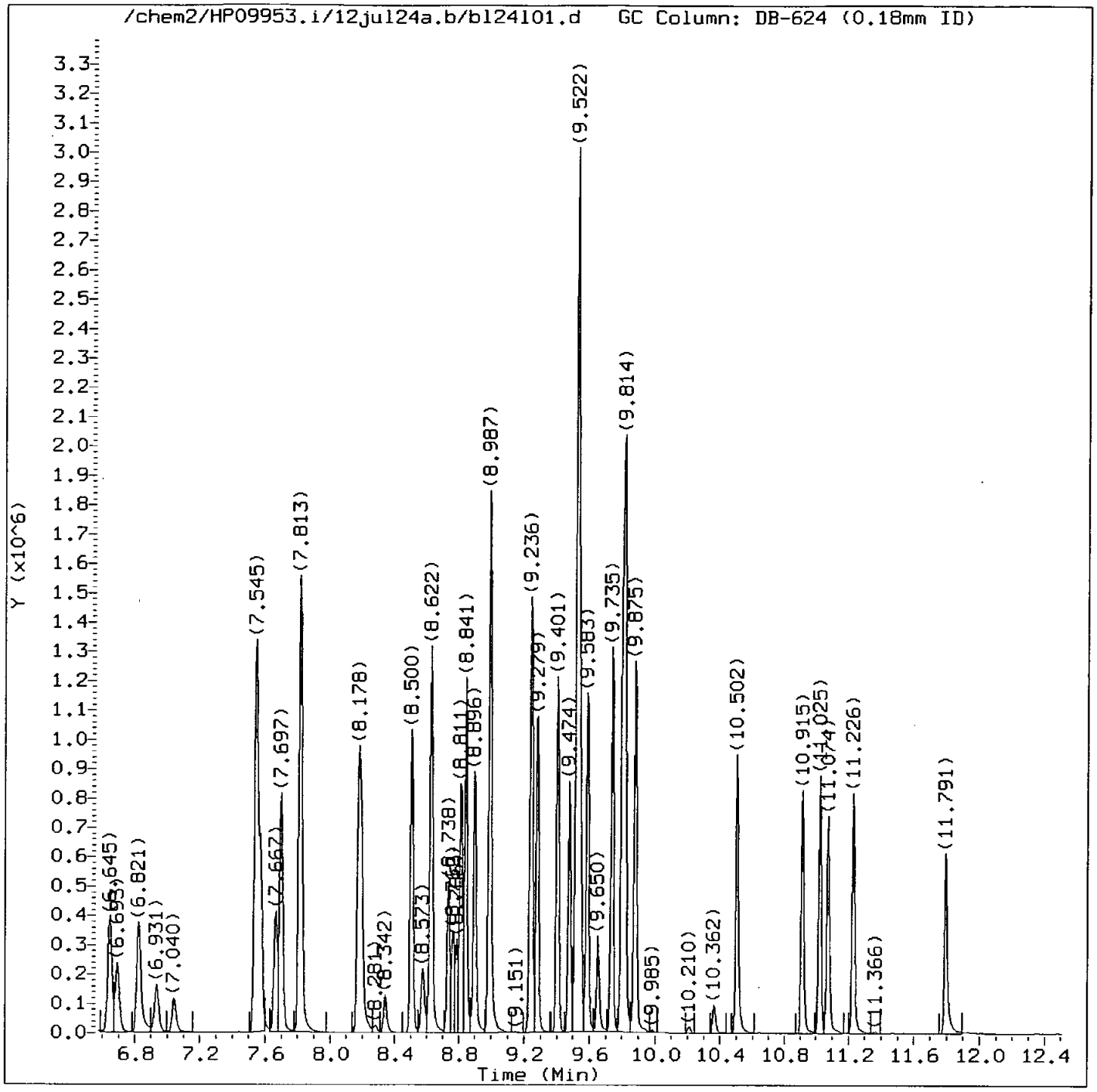
Data File: /chem2/HP09953.i/12jul24a.b/bl24l01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

Sample Name: LCSB63 Lab Sample ID: LCSB63

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 12:38.
Target 3.5 esignature user ID: kel01973

ASX73 0474



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24101.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

Sample Name: LCSB63 Lab Sample ID: LCSB63

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on 07/24/2012 at 12:38.
Target 3.5 esignature user ID: kel01973

ASX73 0475

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24101.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

Sample Name: LCSB63 Lab Sample ID: LCSB63

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.091	85	152627	15.745
3) Chloromethane	(1)	1.133	50	161070	16.513
4) Vinyl Chloride	(1)	1.212	62	149719	17.558
6) Bromomethane	(1)	1.383	94	84461	14.924
7) Chloroethane	(1)	1.431	64	67996	15.004
8) Dichlorofluoromethane	(1)	1.541	67	213855	18.672
9) Trichlorofluoromethane	(1)	1.553	101	174397	18.057
12) Freon 123a	(1)	1.717	67	129528	18.309
13) Acrolein	(4)	1.796	56	119228	132.048
14) 1,1-Dichloroethene	(1)	1.863	96	89250	19.004
18) Freon 113	(1)	1.887	101	103260	19.770
17) Acetone	(1)	1.887	43	198911	144.866
20) Methyl Iodide	(1)	1.967	142	177015	18.360
21) 2-Propanol	(4)	1.985	45	47553	135.434
23) Carbon Disulfide	(1)	2.015	76	252876	16.812
25) Allyl Chloride	(1)	2.100	41	146290	15.869
26) Methyl Acetate	(1)	2.106	43	62236	17.840
27) Methylene Chloride	(1)	2.192	84	104781	17.251
28)*t-Butyl Alcohol-d10	(4)	2.222	65	84090	250.000
29) t-Butyl Alcohol	(4)	2.283	59	76907	134.704
30) Acrylonitrile	(4)	2.380	53	164782	83.429
31) trans-1,2-Dichloroethene	(1)	2.398	96	110011	18.919
32) Methyl Tertiary Butyl Ether	(1)	2.411	73	285218	18.113
35) n-Hexane	(1)	2.617	57	171753	19.786
37) 1,1-Dichloroethane	(1)	2.745	63	201335	18.599
40) di-Isopropyl Ether	(1)	2.812	45	350118	16.906
41) 2-Chloro-1,3-Butadiene	(1)	2.824	53	161402	17.312
43) Ethyl t-Butyl Ether	(1)	3.135	59	305609	16.467
44) cis-1,2-Dichloroethene	(1)	3.268	96	122707	18.523
45) 2,2-Dichloropropane	(1)	3.275	77	148237	16.864
46) 2-Butanone	(1)	3.281	43	334669	138.359
48) Propionitrile	(4)	3.348	54	99507	141.673
49) Methacrylonitrile	(4)	3.481	67	294847	143.810
50) Bromochloromethane	(1)	3.487	128	57925	18.245
51) Tetrahydrofuran	(4)	3.530	71	57817	90.862
52) Chloroform	(1)	3.567	83	187930	16.998
53)$Dibromofluoromethane	(1)	3.713	113	234646	50.065
55) 1,1,1-Trichloroethane	(1)	3.737	97	163587	13.042

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/24/2012 at 12:38.
Target 3.5 esignature user ID: kel01973

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24l01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

Sample Name: LCSB63 Lab Sample ID: LCSB63

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
57) Cyclohexane	(1)	3.779	56	207546	18.908
59) 1,1-Dichloropropene	(1)	3.883	75	150081M	18.155
60) Carbon Tetrachloride	(1)	3.889	117	139073	17.161
62)$1,2-Dichloroethane-d4	(1)	4.029	102	54496	55.142
64) Isobutyl Alcohol	(4)	4.053	41	72132	397.389
65) Benzene	(1)	4.084	78	447207	18.020
66) 1,2-Dichloroethane	(1)	4.102	62	136420	17.773
71) t-Amyl Methyl Ether	(1)	4.205	73	272089	16.590
73)*Fluorobenzene	(1)	4.357	96	987475	50.000
72) n-Heptane	(1)	4.357	43	193801	19.116
69) 1,2-Dichloroethene (total)	(1)		96	232718	37.442
74) n-Butanol	(4)	4.716	56	99130	680.928
75) Trichloroethene	(1)	4.722	95	114456	17.442
77) Methylcyclohexane	(1)	4.911	83	219266	19.580
78) 1,2-Dichloropropane	(1)	4.947	63	116729	18.170
79) Dibromomethane	(1)	5.069	93	64331	17.631
80) Methyl Methacrylate	(1)	5.100	69	61168	16.440
81) 1,4-Dioxane	(4)	5.106	88	22137	394.224
83) Bromodichloromethane	(1)	5.239	83	119608	15.771
84) 2-Nitropropane	(4)	5.489	41	17075	13.941
86) 2-Chloroethyl Vinyl Ether	(1)	5.580	63	50054	16.293
87) cis-1,3-Dichloropropene	(1)	5.714	75	159102	17.647
89) 4-Methyl-2-Pentanone	(1)	5.903	43	471978	90.393
90)$Toluene-d8	(2)	5.988	98	966414	50.173
92) Toluene	(2)	6.061	92	280480	16.989
93) trans-1,3-Dichloropropene	(2)	6.322	75	126630	15.668
95) Ethyl Methacrylate	(2)	6.462	69	114220M	16.069
96) 1,1,2-Trichloroethane	(2)	6.517	97	87621	17.547
97) Tetrachloroethene	(2)	6.645	166	135174	17.394
98) 1,3-Dichloropropane	(2)	6.693	76	150019	17.831
100) 2-Hexanone	(2)	6.821	58	167165	91.336
103) Dibromochloromethane	(2)	6.931	129	91269	16.078
105) 1,2-Dibromoethane	(2)	7.040	107	88838	17.308
106)*Chlorobenzene-d5	(2)	7.545	117	714586	50.000
107) Chlorobenzene	(2)	7.569	112	316474	17.567
108) 1,1,1,2-Tetrachloroethane	(2)	7.667	131	103544	16.093
109) Ethylbenzene	(2)	7.697	91	532159	17.102
110) m+p-Xylene	(2)	7.813	106	432518	34.987

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 12:38.
Target 3.5 esignature user ID: kel01973

Quant Report

Target Revision 3.5

Data File: /chem2/HP09953.i/12jul24a.b/bl24l01.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

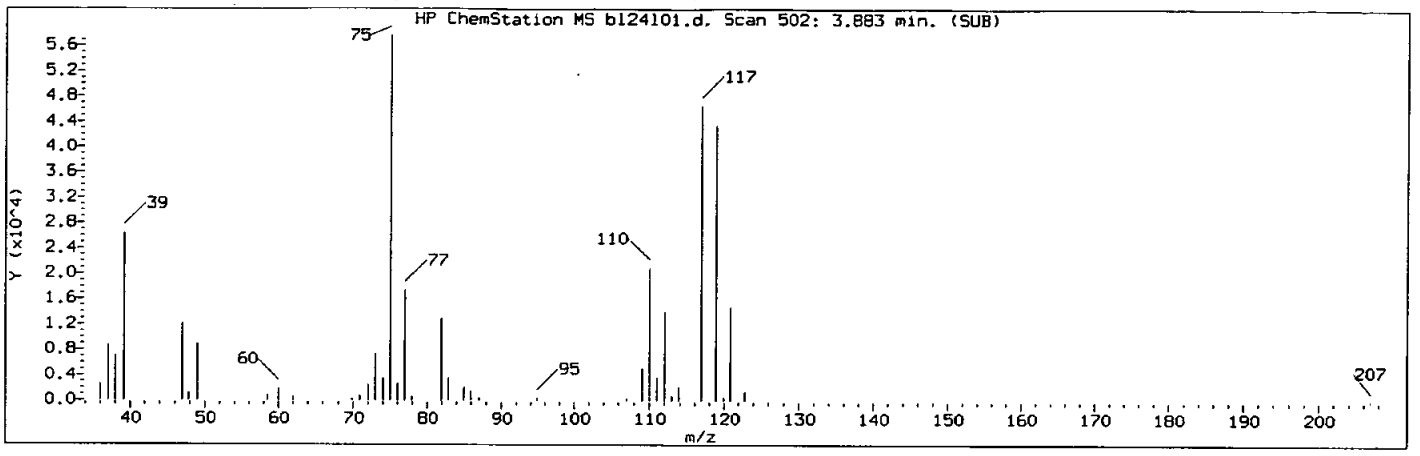
Sample Name: LCSB63 Lab Sample ID: LCSB63

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
112) Xylene (Total)	(2)		106	643945	52.003
113) o-Xylene	(2)	8.178	106	211427	17.016
115) Styrene	(2)	8.190	104	328375	16.348
116) Bromoform	(2)	8.342	173	55378	14.263
117) Isopropylbenzene	(2)	8.500	105	564340	17.405
118) Cyclohexanone	(4)	8.573	55	90866	137.730
120) $4-Bromofluorobenzene	(2)	8.622	95	349413	49.796
122) Bromobenzene	(3)	8.738	156	141973	15.828
123) 1,1,2,2-Tetrachloroethane	(3)	8.762	83	118898	16.614
124) 1,2,3-Trichloropropane	(3)	8.786	110	34788	17.371
125) trans-1,4-Dichloro-2-Butene	(3)	8.811	53	157199	83.388
126) n-Propylbenzene	(3)	8.841	91	649053	16.495
127) 2-Chlorotoluene	(3)	8.902	126	137954	16.293
129) 4-Chlorotoluene	(3)	8.987	126	141429	16.510
128) 1,3,5-Trimethylbenzene	(3)	8.993	105	477284	16.383
131) tert-Butylbenzene	(3)	9.236	134	110815	16.428
132) Pentachloroethane	(3)	9.242	167	80051	15.141
133) 1,2,4-Trimethylbenzene	(3)	9.279	105	478755	16.049
134) sec-Butylbenzene	(3)	9.401	105	628630	16.848
135) 1,3-Dichlorobenzene	(3)	9.474	146	274758	16.129
136) p-Isopropyltoluene	(3)	9.516	119	549238	16.714
137) *1,4-Dichlorobenzene-d4	(3)	9.522	152	436803	50.000
138) 1,4-Dichlorobenzene	(3)	9.541	146	290064	16.163
139) 1,2,3-Trimethylbenzene	(3)	9.583	105	498469	16.647
140) Benzyl Chloride	(3)	9.650	91	183721	15.664
141) 1,3-Diethylbenzene	(3)	9.735	119	324057	16.774
142) 1,4-Diethylbenzene	(3)	9.796	119	344228	17.125
143) n-Butylbenzene	(3)	9.814	92	266950	16.424
144) 1,2-Dichlorobenzene	(3)	9.814	146	271514	16.744
145) 1,2-Diethylbenzene	(3)	9.875	119	281376	16.751
147) 1,2-Dibromo-3-Chloropropane	(3)	10.362	75	19731	15.286
149) 1,3,5-Trichlorobenzene	(3)	10.502	180	243693M	16.191
150) 1,2,4-Trichlorobenzene	(3)	10.915	180	218677	16.632
152) Hexachlorobutadiene	(3)	11.025	225	119698	15.881
153) Naphthalene	(3)	11.074	128	451205	16.812
154) 1,2,3-Trichlorobenzene	(3)	11.226	180	205370	16.598
155) 2-Methylnaphthalene	(3)	11.791	142	269174	16.675

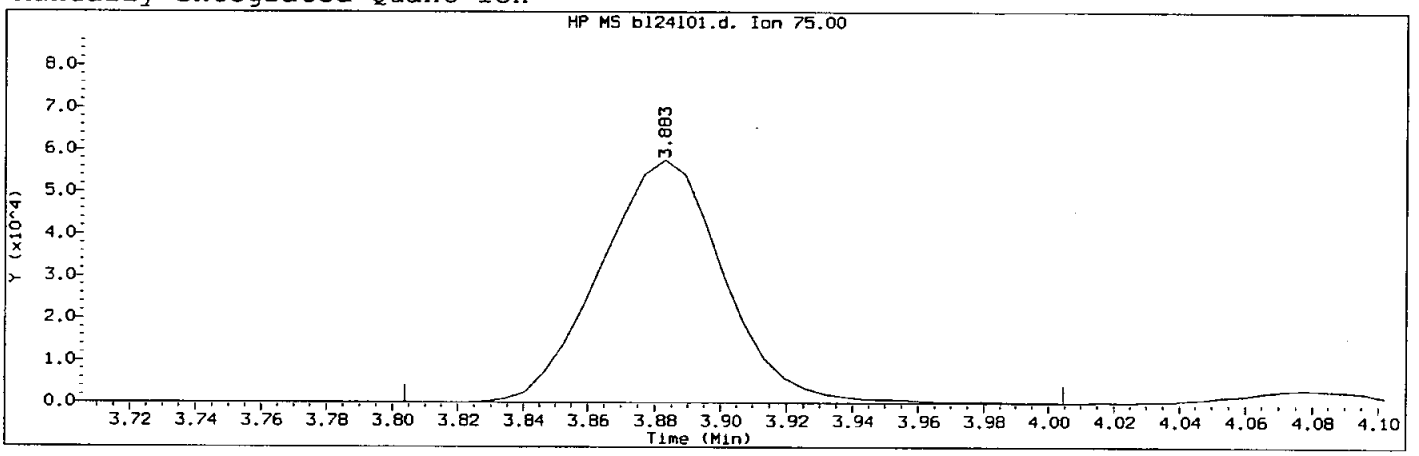
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Kerri E. Koch Legerlotz
on 07/24/2012 at 12:38.
Target 3.5 esignature user ID: kel01973

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul24a.b/bl24101.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

Sample Name: LCSB63 Lab Sample ID: LCSB63

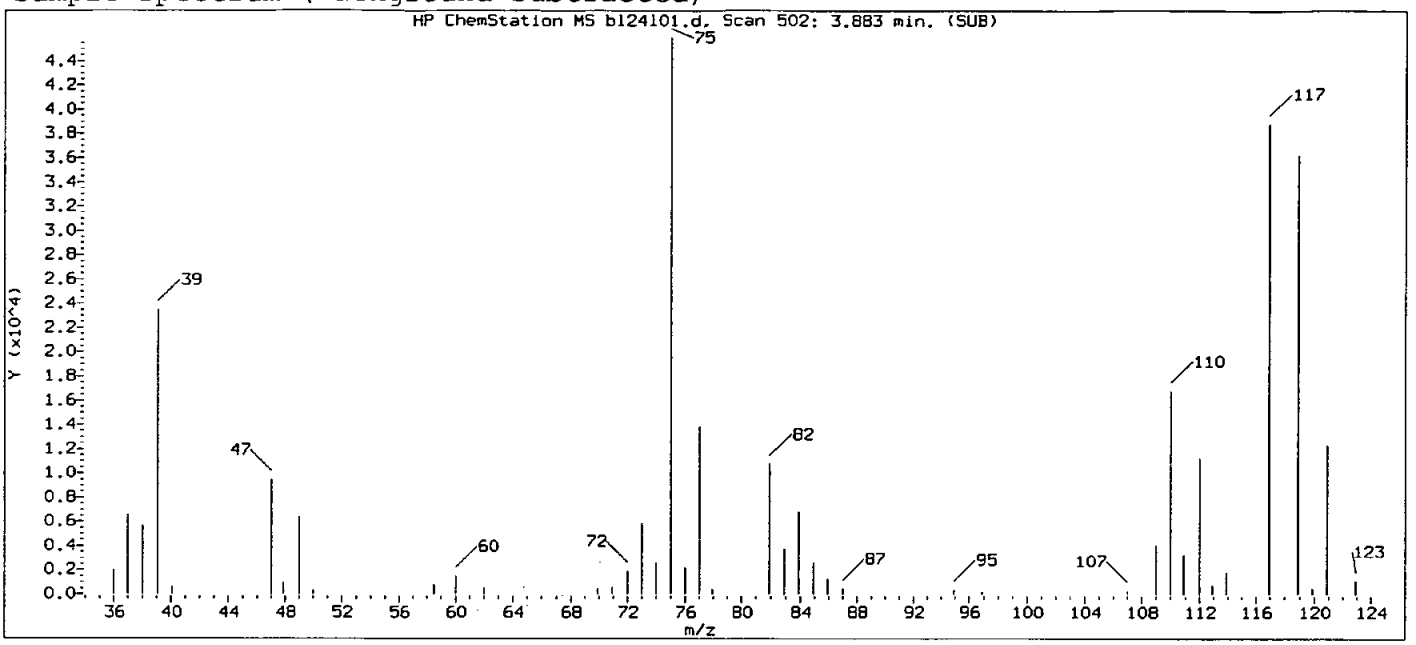
Compound Number	: 59		
Compound Name	: 1,1-Dichloropropene		
Scan Number	: 502		
Retention Time (minutes)	: 3.883		
Quant Ion	: 75.00		
Area (flag)	: 150081M		
On-Column Amount (ng)	: 18.1547		
Integration start scan	: 488	Integration stop scan:	521
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

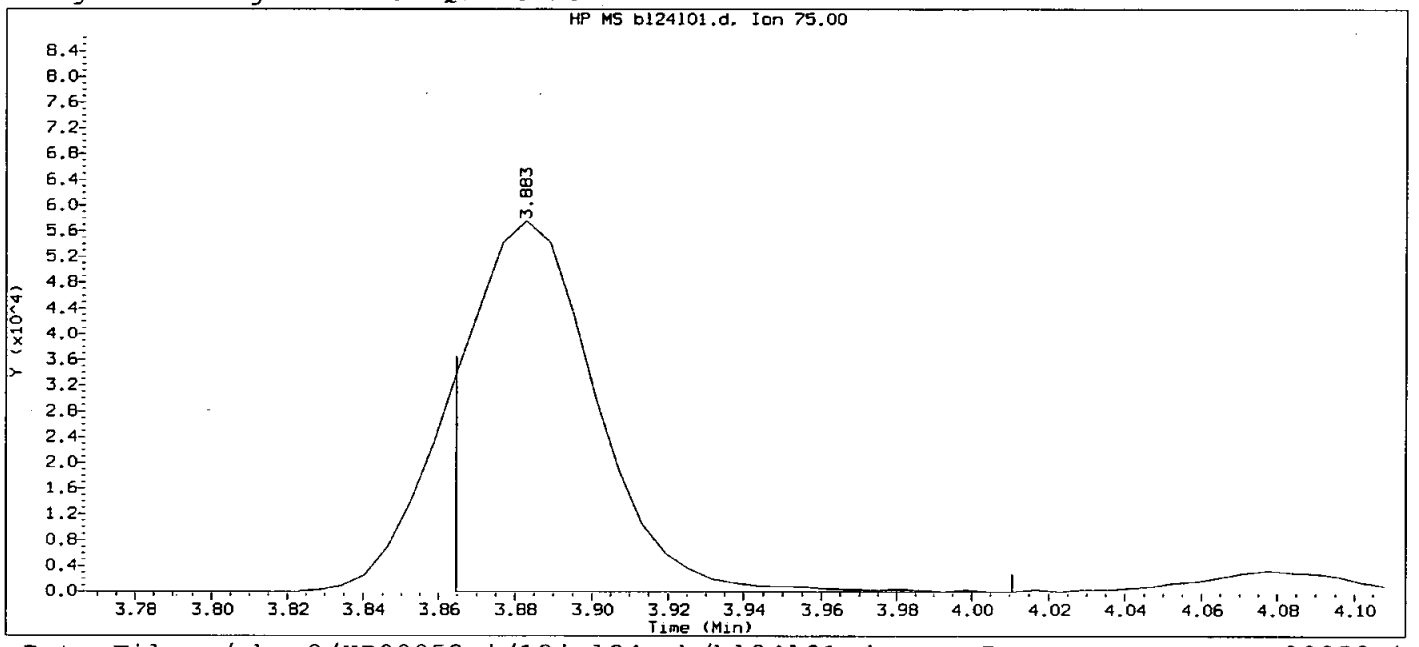
Analyst responsible for change: Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 12:38. Target 3.5 esignature user ID: kel01973

Secondary review performed and digitally signed by Abraham H. Uysal on 07/25/2012 at 14:17: Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul24a.b/bl24101.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

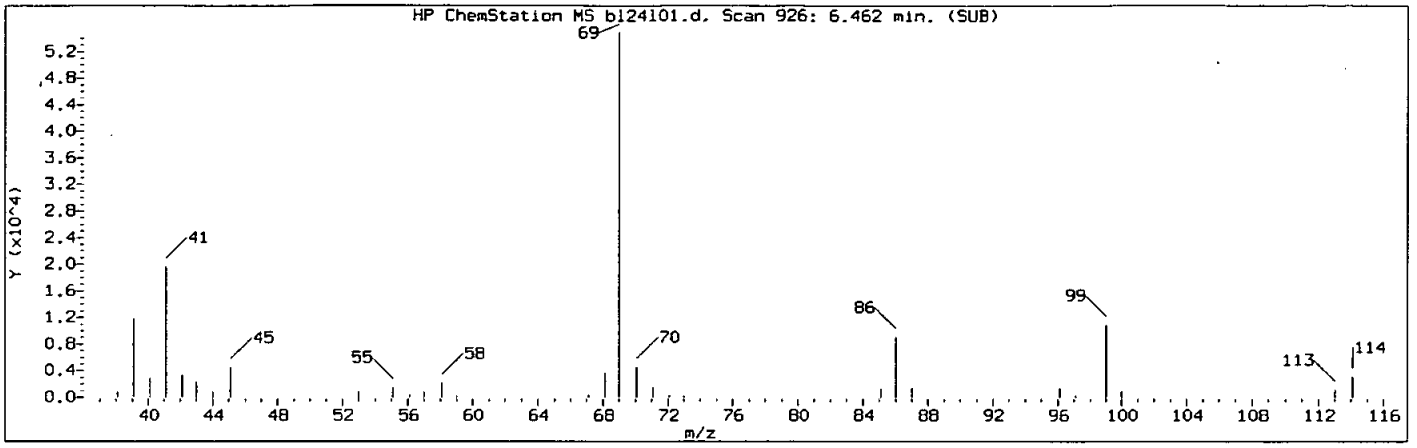
Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:12 Automation

Sample Name: LCSB63 Lab Sample ID: LCSB63

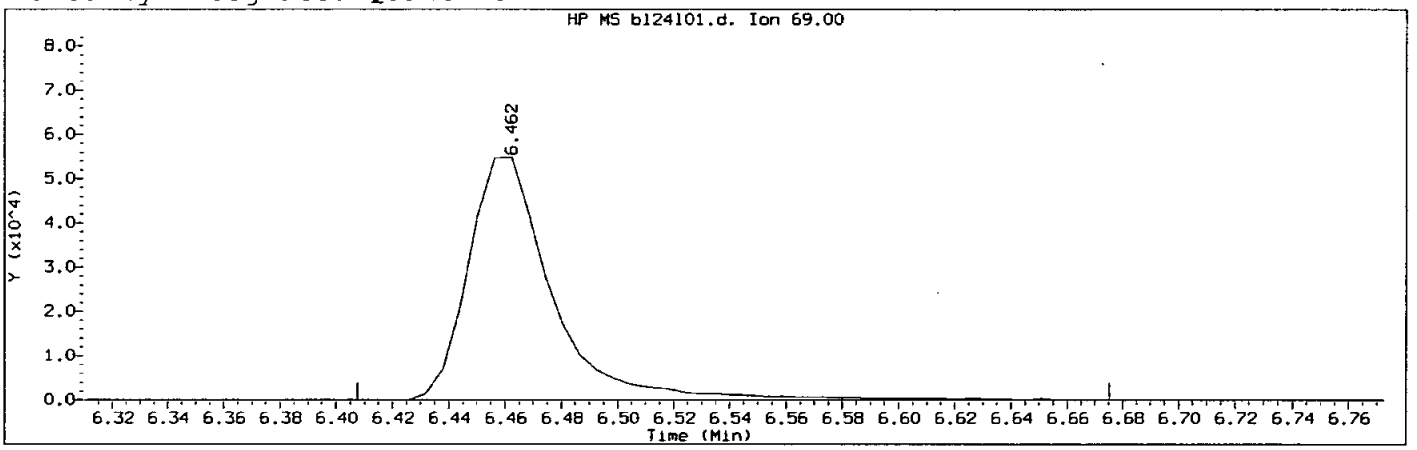
Compound Number : 59
Compound Name : 1,1-Dichloropropene
Scan Number : 502
Retention Time (minutes): 3.883
Quant Ion : 75.00
Area : 126551
On-column Amount (ng) : 15.3084
Integration start scan : 498 Integration stop scan: 522
Y at integration start : 0 Y at integration end: 0

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 12:38.
Target 3.5 esignature user ID: kel01973

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul24a.b/bl24101.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

Sample Name: LCSB63 Lab Sample ID: LCSB63

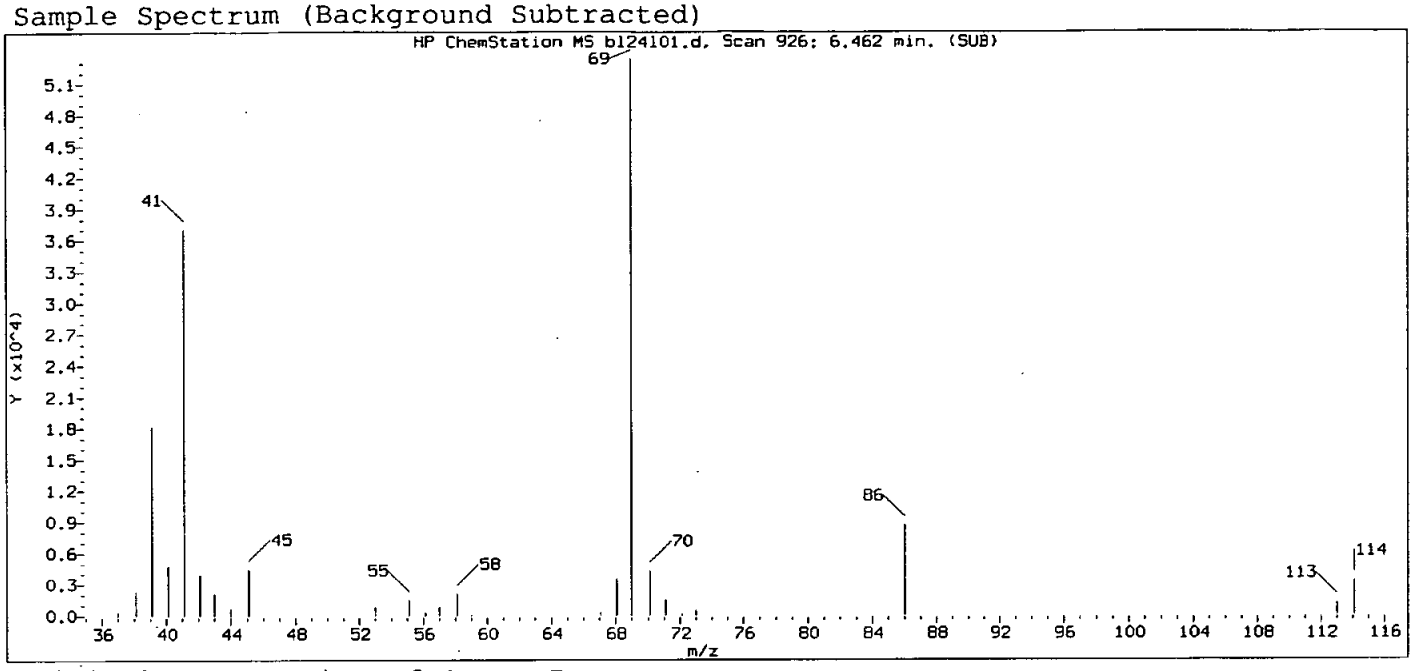
Compound Number	: 95		
Compound Name	: Ethyl Methacrylate		
Scan Number	: 926		
Retention Time (minutes)	: 6.462		
Quant Ion	: 69.00		
Area (flag)	: 114220M		
On-Column Amount (ng)	: 16.0695		
Integration start scan	: 916	Integration stop scan:	960
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

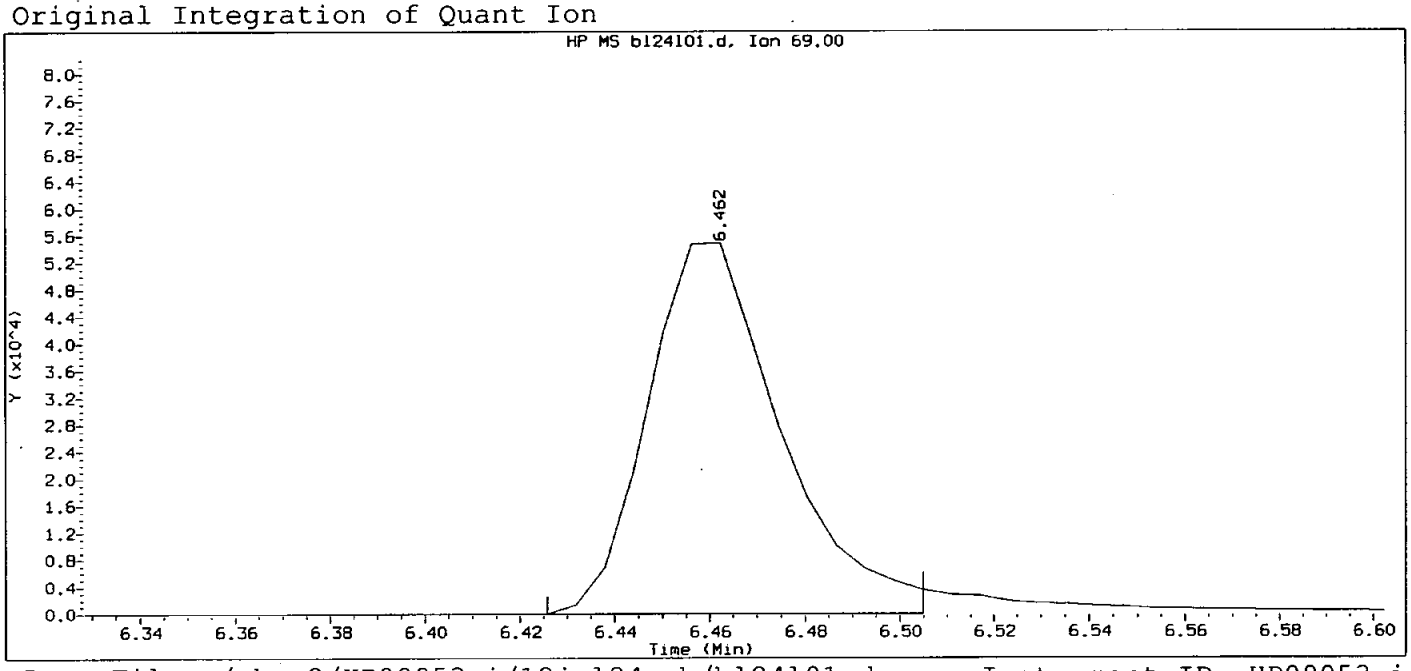
Analyst responsible for change: Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 12:38. Target 3.5 esignature user ID: kel01973

Secondary review performed and digitally signed by Abraham H. Uysal on 07/25/2012 at 14:17.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul24a.b/bl24101.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

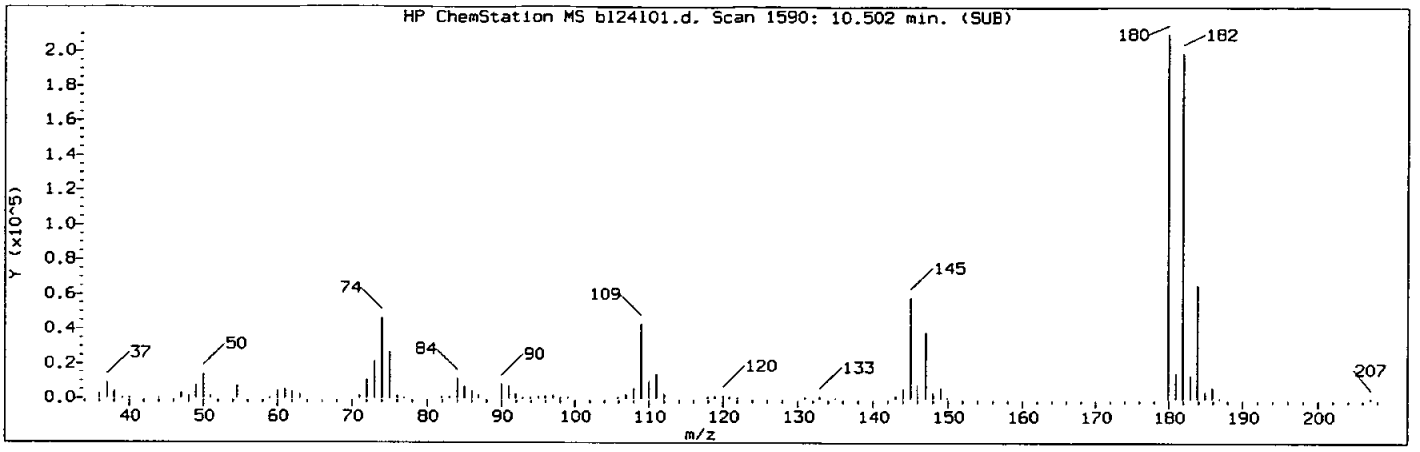
Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:12 Automation

Sample Name: LCSB63 Lab Sample ID: LCSB63

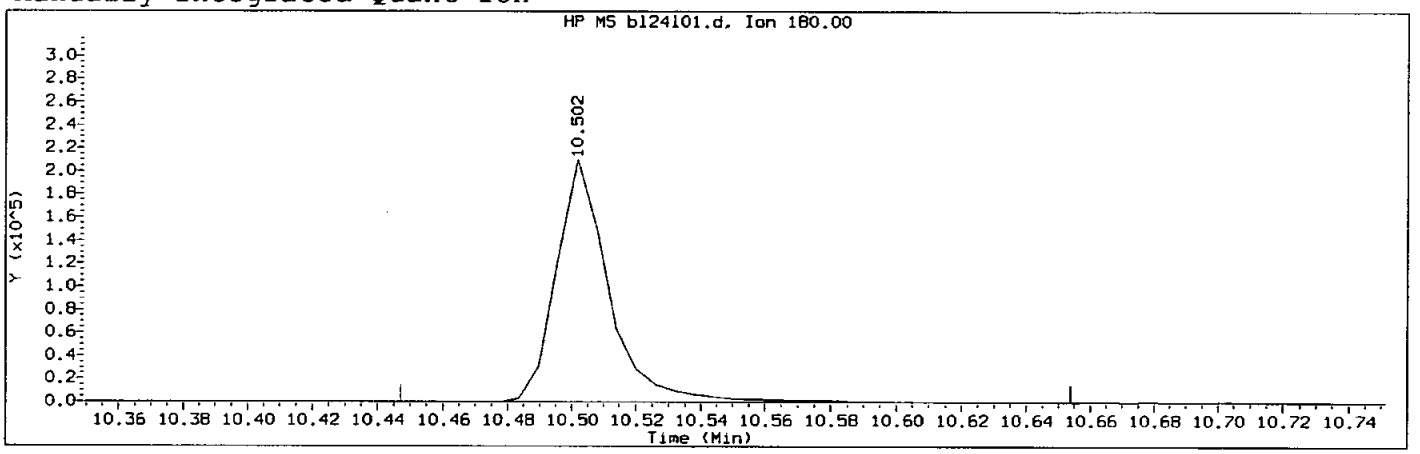
Compound Number	: 95		
Compound Name	: Ethyl Methacrylate		
Scan Number	: 926		
Retention Time (minutes)	: 6.462		
Quant Ion	: 69.00		
Area	: 106280		
On-column Amount (ng)	: 14.9524		
Integration start scan	: 919	Integration stop scan:	932
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 12:38.
Target 3.5 esignature user ID: kel01973

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09953.i/12jul24a.b/bl24101.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:28 kel01973

Sample Name: LCSB63 Lab Sample ID: LCSB63

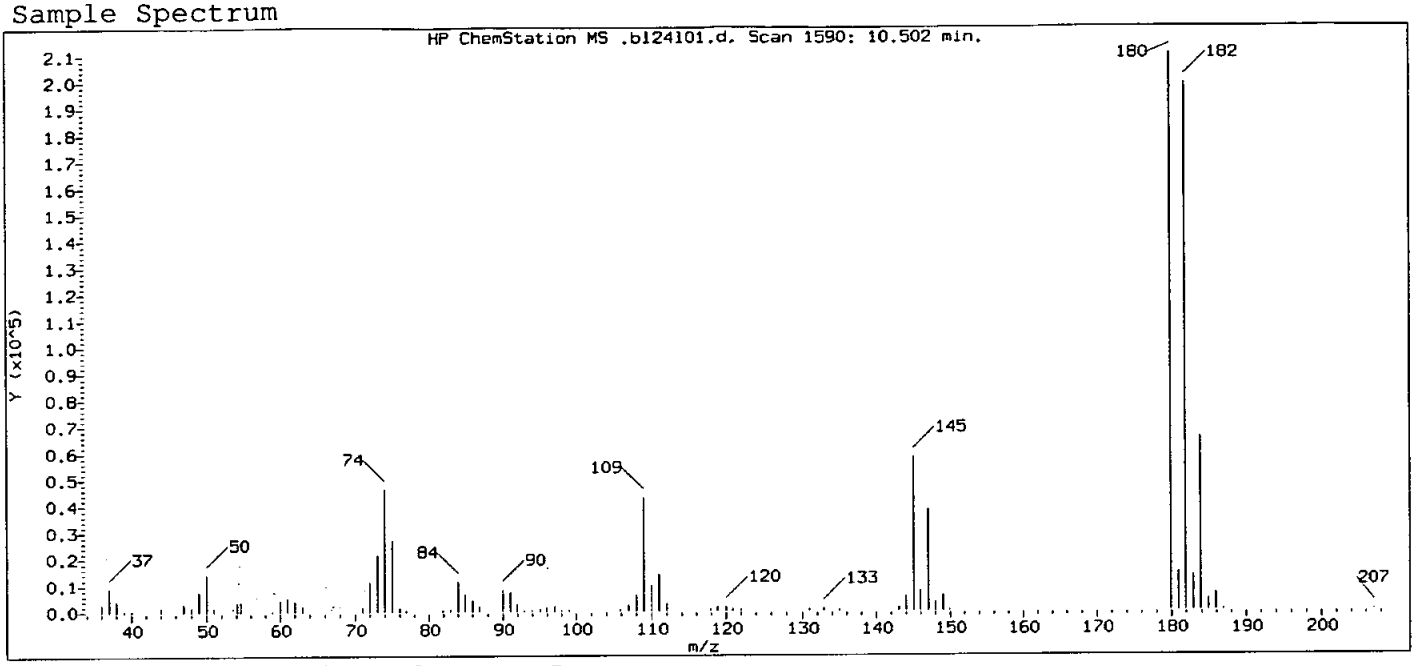
Compound Number	: 149		
Compound Name	: 1,3,5-Trichlorobenzene		
Scan Number	: 1590		
Retention Time (minutes)	: 10.502		
Quant Ion	: 180.00		
Area (flag)	: 243693M		
On-Column Amount (ng)	: 16.1905		
Integration start scan	: 1580	Integration stop scan:	1614
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

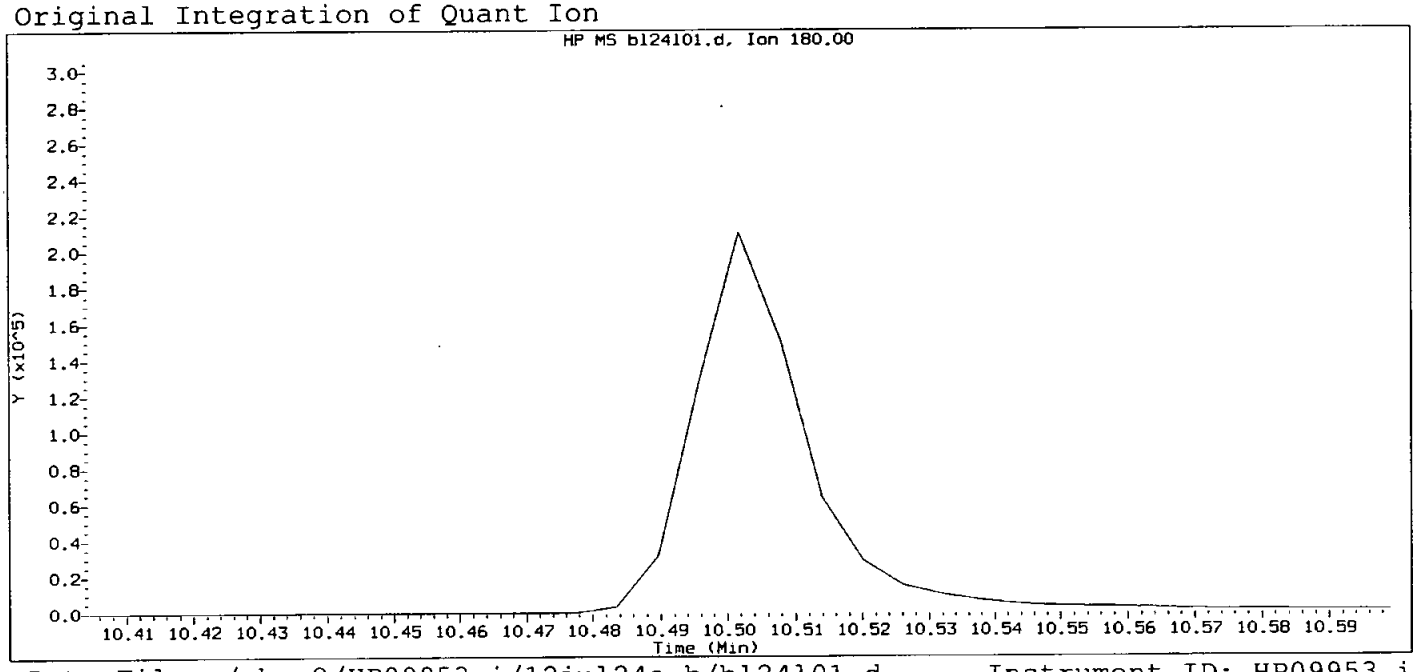
Analyst responsible for change: Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 12:38. Target 3.5 esignature user ID: kel01973

Secondary review performed and digitally signed by Abraham H. Uysal on 07/25/2012 at 14:17.
Parallax ID: ahu01800

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem2/HP09953.i/12jul24a.b/bl24101.d Instrument ID: HP09953.i
Injection date and time: 24-JUL-2012 11:56 Analyst ID: KEL01973

Method used: /chem2/HP09953.i/12jul24a.b/B8260SL.m Sublist used: 8260S-E
Calibration date and time: 24-JUL-2012 12:02
Date, time and analyst ID of latest file update: 24-Jul-2012 12:12 Automation

Sample Name: LCSB63 Lab Sample ID: LCSB63

Compound Number : 149
Compound Name : 1,3,5-Trichlorobenzene
Expected RT (minutes) : 10.502
Quant Ion : 180.00

Digitally signed by Kerri E. Koch Legerlotz on 07/24/2012 at 12:38.
Target 3.5 esignature user ID: kel01973

LCST71 Lancaster Laboratories LCST71
Analysis Summary for GC/MS Volatiles

Data file: /chem/SH08363.i/12jul18a.b/tl18s01.d
Data file Sample Info. Line: LCST71;LCST71;1;3;LCS;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:17 sag03174

Injection date and time: **18-JUL-2012 09:49**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Change)	Conc. (on-column)	QC Flag
28) t-Butyl Alcohol-d10	4.208(0.007)	343	65	318375 (-9)	250.00	
70) Fluorobenzene	7.633(0.007)	810	96	946990 (-8)	50.00	
107) Chlorobenzene-d5	11.101(0.000)	1283	117	626139 (-9)	50.00	
141) 1,4-Dichlorobenzene-d4	12.986(0.000)	1540	152	319696 (-9)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.753(0.000)	113	273155	50.649	101%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	7.215(-0.001)	102	65744	50.264	101%		77 - 113
90) Toluene-d8	(2)	9.642(0.000)	98	859829	50.295	101%		80 - 113
124) 4-Bromofluorobenzene	(2)	12.106(0.000)	95	363200	51.353	103%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ (in sample)
1) Dichlorodifluoromethane	(1)	2.008(0.000)	85	99046	10.471	10.47			2	5
2) Chloromethane	(1)	2.169(0.001)	50	244216	15.422	15.42			1	5
4) Vinyl Chloride	(1)	2.301(0.000)	62	170052	16.868	16.87			1	5
7) Bromomethane	(1)	2.609(0.000)	94	93987	15.868	15.87			1	5
8) Chloroethane	(1)	2.705(0.000)	64	85305	15.853	15.85			1	5
13) Trichlorofluoromethane	(1)	3.005(0.000)	101	106296	17.919	17.92			2	5
15) Ethyl Ether	(1)	3.240(-0.001)	59	129343	18.897	18.90			2	5
17) Acrolein	(4)	3.423(-0.003)	56	398878	103.276	103.28			40	100
18) 1,1-Dichloroethene	(1)	3.548(0.000)	96	87625	20.809	20.81			0.8	5
19) Freon 113	(1)	3.585(-0.000)	101	81827	19.285	19.29			2	10
21) Acetone	(1)	3.570(-0.000)	58	246855	184.866	184.87			6	20
23) 2-Propanol	(4)	3.709(0.001)	45	183282	158.120	158.12			50	100
22) Methyl Iodide	(1)	3.753(0.000)	142	177576	20.935	20.94			1	5
24) Carbon Disulfide	(1)	3.863(0.000)	76	319885	18.274	18.27			1	5
26) Methyl Acetate	(1)	3.959(0.000)	43	353173	19.334	19.33			1	5
25) Allyl Chloride	(1)	4.017(0.000)	41	372240	18.928	18.93			1	5
27) Methylene Chloride	(1)	4.208(-0.000)	84	125907	19.489	19.49			2	5
29) t-Butyl Alcohol	(4)	4.333(-0.000)	59	280621M	193.632	193.63			10	80
30) Acrylonitrile	(1)	4.523(0.000)	53	556759	87.253	87.25			4	20
32) trans-1,2-Dichloroethene	(1)	4.611(-0.000)	96	105991	21.248	21.25			0.8	5
31) Methyl Tertiary Butyl Ether	(1)	4.597(0.000)	73	341643	20.459	20.46			0.5	5
34) n-Hexane	(1)	4.993(0.001)	57	163559	18.073	18.07			2	5
36) 1,1-Dichloroethane	(1)	5.257(-0.001)	63	251328	21.017	21.02			1	5
37) di-Isopropyl Ether	(1)	5.301(0.000)	45	728797	18.831	18.83			0.8	5
40) 2-Chloro-1,3-Butadiene	(1)	5.345(0.000)	53	213301	19.011	19.01			1	5
42) Ethyl t-Butyl Ether	(1)	5.829(-0.000)	59	469807	21.221	21.22			0.8	5
45) 2-Butanone	(1)	6.034(-0.000)	43	1693273	138.434	138.43			3	10
44) cis-1,2-Dichloroethene	(1)	6.063(-0.000)	96	117199	20.943	20.94			0.8	5
41) 1,2-Dichloroethene (total)	(1)		96	223190	42.191	42.19			0.8	5
43) 2,2-Dichloropropane	(1)	6.093(-0.000)	77	133547	21.794	21.79			1	5
46) Propionitrile	(4)	6.122(-0.002)	54	335417	120.418	120.42			30	100

M = Compound was manually integrated.

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:19. Target 3.5 esignature user ID: sag03174

ASX73 0485

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

LCST71

Data file: /chem/SH08363.i/12jul18a.b/tl18s01.d
Data file Sample Info. Line: LCST71;LCST71;1;3;LCS;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:17 sag03174

Injection date and time: **18-JUL-2012 09:49**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
47) Methacrylonitrile	(1)	6.335(-0.000)	67	636077	138.645	138.65			10	50
49) Bromochloromethane	(1)	6.401(-0.001)	128	59567	19.975	19.97			1	5
50) Tetrahydrofuran	(4)	6.401(-0.002)	71	145267	76.953	76.95			4	10
52) Chloroform	(1)	6.540(-0.000)	83	193776	19.379	19.38			0.8	5
55) 1,1,1-Trichloroethane	(1)	6.775(-0.000)	97	124181	22.345	22.34			0.8	5
58) Cyclohexane	(1)	6.870(0.000)	56	218916	18.534	18.53			2	5
59) 1,1-Dichloropropene	(1)	6.973(-0.000)	75	149693	20.226	20.23			1	5
60) Carbon Tetrachloride	(1)	6.987(-0.002)	117	91248	20.994	20.99			1	5
61) Isobutyl Alcohol	(4)	7.105(-0.002)	41	421391	444.640	444.64			100	250
65) Benzene	(1)	7.237(-0.000)	78	428332	19.624	19.62			0.5	5
66) 1,2-Dichloroethane	(1)	7.317(-0.000)	62	180938	21.519	21.52			1	5
68) t-Amyl Methyl Ether	(1)	7.427(-0.000)	73	340706	20.284	20.28			0.8	5
69) n-Heptane	(1)	7.633(0.000)	43	234724	16.456	16.46			2	5
73) n-Butanol	(4)	7.985(-0.003)	56	497430	900.818	900.82			100	250
74) Trichloroethene	(1)	8.109(-0.001)	95	105922	20.966	20.97			1	5
76) Methylcyclohexane	(1)	8.425(-0.002)	83	137180	17.911	17.91			1	5
79) 1,2-Dichloropropane	(1)	8.454(-0.001)	63	147208	20.481	20.48			1	5
80) Dibromomethane	(1)	8.564(-0.001)	93	88449	19.768	19.77			1	5
82) 1,4-Dioxane	(4)	8.542(-0.003)	88	42793M	504.159	504.16			70	250
81) Methyl Methacrylate	(1)	8.520(-0.001)	69	119339	18.323	18.32			1	5
83) Bromodichloromethane	(1)	8.791(-0.001)	83	129412	19.035	19.04			1	5
84) 2-Nitropropane	(1)	9.063(-0.001)	41	58021	15.419	15.42			2	10
85) 2-Chloroethyl Vinyl Ether	(1)	9.151(-0.001)	63	112848	17.698	17.70			2	10
87) cis-1,3-Dichloropropene	(1)	9.334(-0.001)	75	190347	21.207	21.21			1	5
88) 4-Methyl-2-Pentanone	(1)	9.503(-0.001)	58	562419	84.689	84.69			3	10
93) Toluene	(2)	9.715(0.000)	92	242091	20.427	20.43			0.7	5
96) trans-1,3-Dichloropropene	(2)	9.979(0.000)	75	164141	19.741	19.74			1	5
97) Ethyl Methacrylate	(2)	10.038(0.000)	69	202074	19.362	19.36			1	5
98) 1,1,2-Trichloroethane	(2)	10.185(0.000)	97	107772	20.606	20.61			0.8	5
99) Tetrachloroethene	(2)	10.258(0.000)	166	99991	21.314	21.31			0.8	5
100) 1,3-Dichloropropane	(2)	10.353(-0.000)	76	202637	19.725	19.73			1	5
101) 2-Hexanone	(2)	10.397(0.000)	58	625726	81.825	81.82			3	10
103) Dibromochloromethane	(2)	10.566(0.000)	129	100072	18.940	18.94			1	5
104) 1,2-Dibromoethane	(2)	10.676(0.000)	107	123560	20.540	20.54			1	5
108) Chlorobenzene	(2)	11.131(-0.000)	112	255610	20.633	20.63			0.8	5
111) 1,1,1,2-Tetrachloroethane	(2)	11.211(0.000)	131	82987	21.140	21.14			1	5
114) Ethylbenzene	(2)	11.211(0.000)	106	126170	20.344	20.34			0.8	5
115) m+p-Xylene	(2)	11.329(0.000)	106	317284	41.209	41.21			0.8	5
116) Xylene (Total)	(2)		106	470669	61.763	61.76			0.8	5
117) o-Xylene	(2)	11.659(0.000)	106	153385	20.555	20.55			0.8	5
119) Styrene	(2)	11.673(0.000)	104	265948	20.426	20.43			1	5
120) Bromoform	(2)	11.835(0.000)	173	73878	17.116	17.12			1	5
121) Isopropylbenzene	(2)	11.959(0.000)	105	373400	21.681	21.68			1	5
126) 1,1,2,2-Tetrachloroethane	(3)	12.209(0.000)	83	209655	19.096	19.10			1	5
127) Bromobenzene	(3)	12.223(0.000)	156	110330	19.721	19.72			1	5
129) trans-1,4-Dichloro-2-Butene	(3)	12.238(0.000)	53	229804	59.357	59.36			15	50
128) 1,2,3-Trichloropropane	(3)	12.253(0.000)	110	46930	20.553	20.55			1	5
130) n-Propylbenzene	(3)	12.289(0.000)	91	513694	21.191	21.19			1	5
131) 2-Chlorotoluene	(3)	12.363(0.000)	126	93846	20.006	20.01			1	5
132) 1,3,5-Trimethylbenzene	(3)	12.421(0.000)	105	323682	21.441	21.44			1	5
133) 4-Chlorotoluene	(3)	12.458(0.000)	126	100197	20.067	20.07			1	5
134) tert-Butylbenzene	(3)	12.663(0.000)	134	67503	21.562	21.56			1	5
135) Pentachloroethane	(3)	12.700(0.000)	167	56996	18.099	18.10			1	5
137) 1,2,4-Trimethylbenzene	(3)	12.707(0.000)	105	334920	21.432	21.43			1	5

M = Compound was manually integrated.

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LCST71 Lancaster Laboratories Analysis Summary for GC/MS Volatiles LCST71

Data file: /chem/SH08363.i/12jul18a.b/tl18s01.d
Data file Sample Info. Line: LCST71;LCST71;1;3;LCS;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:17 sag03174

Injection date and time: **18-JUL-2012 09:49**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
138) sec-Butylbenzene	(3)	12.832(0.000)	105	395049	21.603	21.60			1	5
139) 1,3-Dichlorobenzene	(3)	12.927(0.000)	146	189351	19.833	19.83			1	5
140) p-Isopropyltoluene	(3)	12.935(0.000)	119	318272	21.499	21.50			1	5
142) 1,4-Dichlorobenzene	(3)	13.001(0.000)	146	201168	20.372	20.37			1	5
143) 1,2,3-Trimethylbenzene	(3)	13.015(0.000)	105	343034	20.590	20.59			1	5
144) Benzyl Chloride	(3)	13.081(0.000)	91	258455	18.418	18.42			1	5
145) 1,3-Diethylbenzene	(3)	13.133(0.000)	119	182885	19.810	19.81			1	5
146) 1,4-Diethylbenzene	(3)	13.206(0.000)	119	191479	19.998	20.00			1	5
147) n-Butylbenzene	(3)	13.228(0.000)	92	208138	20.454	20.45			1	5
148) 1,2-Dichlorobenzene	(3)	13.265(-0.000)	146	184805	20.052	20.05			1	5
149) 1,2-Diethylbenzene	(3)	13.279(0.000)	119	155018	20.137	20.14			1	5
151) 1,2-Dibromo-3-Chloropropane	(3)	13.807(0.000)	75	36054	19.165	19.16			2	5
153) 1,3,5-Trichlorobenzene	(3)	13.925(0.000)	180	138159	21.324	21.32			1	5
154) 1,2,4-Trichlorobenzene	(3)	14.350(0.000)	180	124555	21.604	21.60			1	5
155) Hexachlorobutadiene	(3)	14.423(0.000)	225	50928	20.408	20.41			2	5
156) Naphthalene	(3)	14.533(0.000)	128	353396	20.234	20.23			1	5
157) 1,2,3-Trichlorobenzene	(3)	14.673(0.000)	180	112371	20.321	20.32			1	5

Total number of targets = 102

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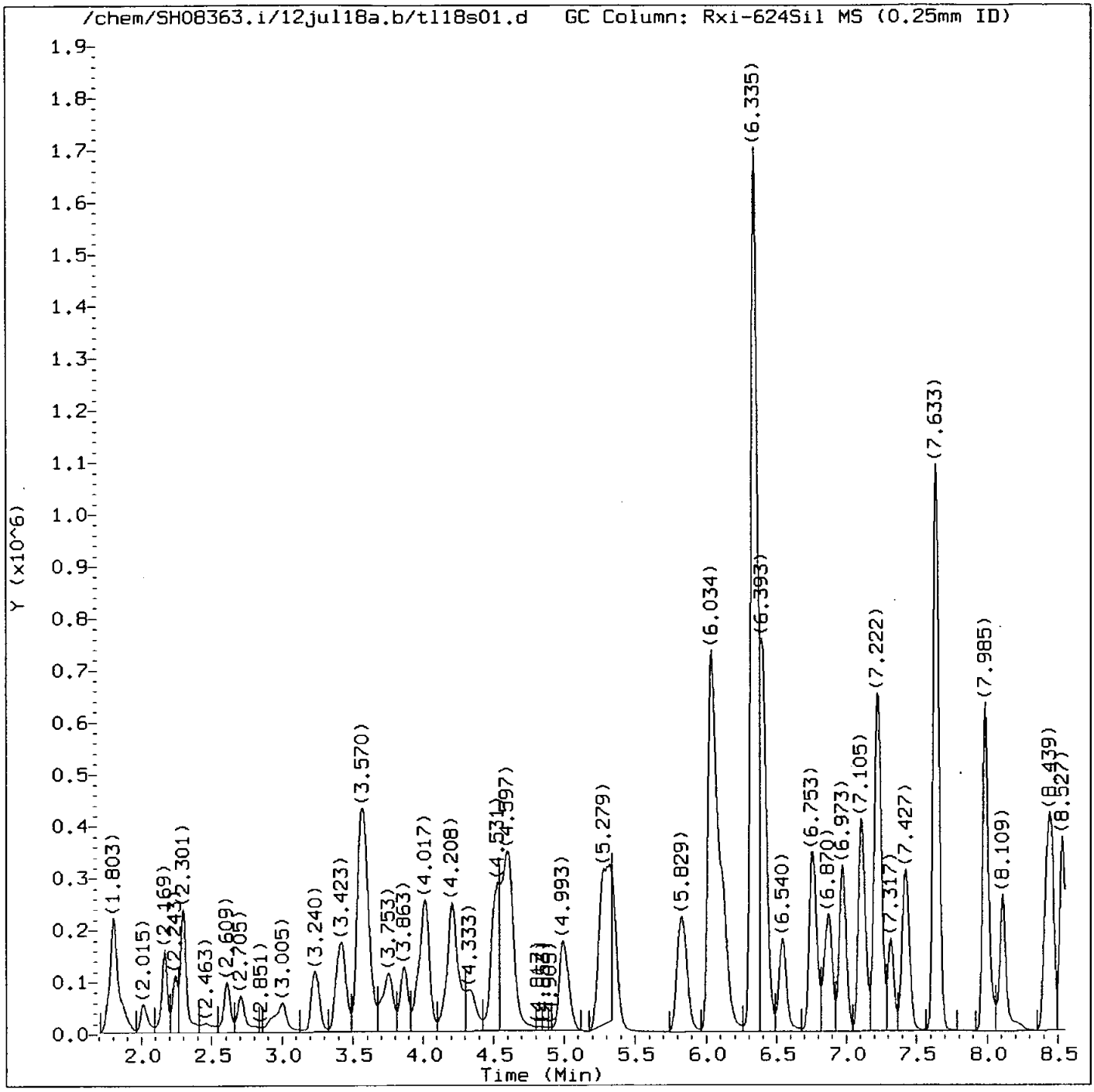
Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43. Parallax ID: ahu01800



Total Ion Chromatogram (TIC)

Target Revision 3.5

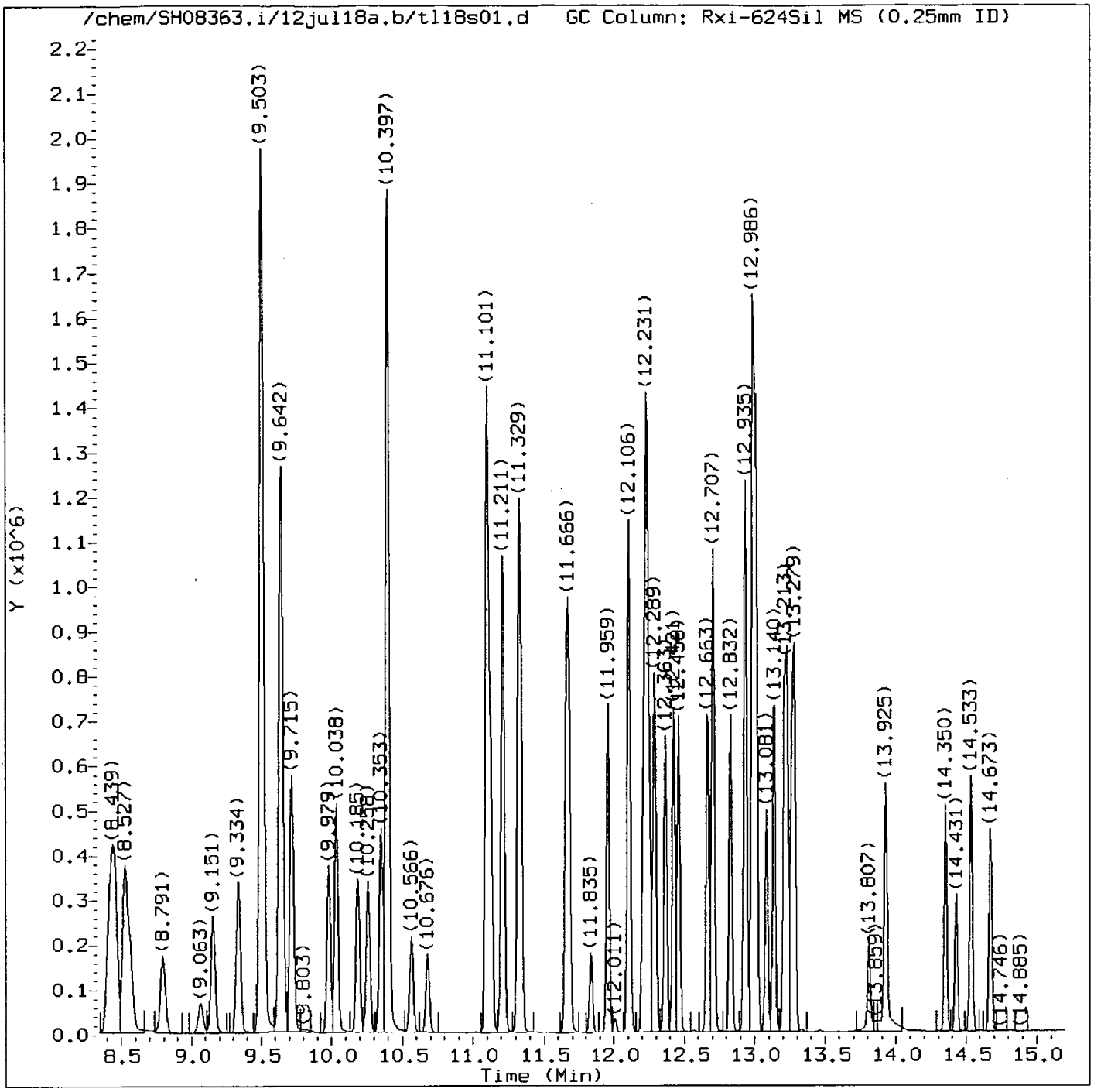
Data File: /chem/SH08363.i/12jul18a.b/tl18s01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:49 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:17 sag03174

Sample Name: LCST71 Lab Sample ID: LCST71

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:19.
Target 3.5 esignature user ID: sag03174

ASX73 0485



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:49 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:17 sag03174

Sample Name: LCST71 Lab Sample ID: LCST71

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:19.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:49 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:17 sag03174

Sample Name: LCST71 Lab Sample ID: LCST71

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.008	85	99046	10.471
2) Chloromethane	(1)	2.169	50	244216	15.422
4) Vinyl Chloride	(1)	2.301	62	170052	16.868
7) Bromomethane	(1)	2.609	94	93987	15.868
8) Chloroethane	(1)	2.705	64	85305	15.853
13) Trichlorofluoromethane	(1)	3.005	101	106296	17.919
15) Ethyl Ether	(1)	3.240	59	129343	18.897
17) Acrolein	(4)	3.423	56	398878	103.276
18) 1,1-Dichloroethene	(1)	3.548	96	87625	20.809
21) Acetone	(1)	3.570	58	246855	184.866
19) Freon 113	(1)	3.585	101	81827	19.285
23) 2-Propanol	(4)	3.709	45	183282	158.120
22) Methyl Iodide	(1)	3.753	142	177576	20.935
24) Carbon Disulfide	(1)	3.863	76	319885	18.274
26) Methyl Acetate	(1)	3.959	43	353173	19.334
25) Allyl Chloride	(1)	4.017	41	372240	18.928
27) Methylene Chloride	(1)	4.208	84	125907	19.489
28)*t-Butyl Alcohol-d10	(4)	4.208	65	318375	250.000
29) t-Butyl Alcohol	(4)	4.333	59	280621M	193.632
30) Acrylonitrile	(1)	4.523	53	556759	87.253
31) Methyl Tertiary Butyl Ether	(1)	4.597	73	341643	20.459
32) trans-1,2-Dichloroethene	(1)	4.611	96	105991	21.248
34) n-Hexane	(1)	4.993	57	163559	18.073
36) 1,1-Dichloroethane	(1)	5.257	63	251328	21.017
37) di-Isopropyl Ether	(1)	5.301	45	728797	18.831
40) 2-Chloro-1,3-Butadiene	(1)	5.345	53	213301	19.011
41) 1,2-Dichloroethene (total)	(1)		96	223190	42.191
42) Ethyl t-Butyl Ether	(1)	5.829	59	469807	21.221
45) 2-Butanone	(1)	6.034	43	1693273	138.434
44) cis-1,2-Dichloroethene	(1)	6.063	96	117199	20.943
43) 2,2-Dichloropropane	(1)	6.093	77	133547	21.794
46) Propionitrile	(4)	6.122	54	335417	120.418
47) Methacrylonitrile	(1)	6.335	67	636077	138.645
49) Bromochloromethane	(1)	6.401	128	59567	19.975
50) Tetrahydrofuran	(4)	6.401	71	145267	76.953
52) Chloroform	(1)	6.540	83	193776	19.379
54)$Dibromofluoromethane	(1)	6.753	113	273155	50.649
55) 1,1,1-Trichloroethane	(1)	6.775	97	124181	22.345

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 16:19.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:49 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:17 sag03174

Sample Name: LCST71 Lab Sample ID: LCST71

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
58) Cyclohexane	(1)	6.870	56	218916	18.534
59) 1,1-Dichloropropene	(1)	6.973	75	149693	20.226
60) Carbon Tetrachloride	(1)	6.987	117	91248	20.994
61) Isobutyl Alcohol	(4)	7.105	41	421391	444.640
62)$1,2-Dichloroethane-d4	(1)	7.215	102	65744	50.264
65) Benzene	(1)	7.237	78	428332	19.624
66) 1,2-Dichloroethane	(1)	7.317	62	180938	21.519
68) t-Amyl Methyl Ether	(1)	7.427	73	340706	20.284
70)*Fluorobenzene	(1)	7.633	96	946990	50.000
69) n-Heptane	(1)	7.633	43	234724	16.456
73) n-Butanol	(4)	7.985	56	497430	900.818
74) Trichloroethene	(1)	8.109	95	105922	20.966
76) Methylcyclohexane	(1)	8.425	83	137180	17.911
79) 1,2-Dichloropropane	(1)	8.454	63	147208	20.481
81) Methyl Methacrylate	(1)	8.520	69	119339	18.323
82) 1,4-Dioxane	(4)	8.542	88	42793M	504.159
80) Dibromomethane	(1)	8.564	93	88449	19.768
83) Bromodichloromethane	(1)	8.791	83	129412	19.035
84) 2-Nitropropane	(1)	9.063	41	58021	15.419
85) 2-Chloroethyl Vinyl Ether	(1)	9.151	63	112848	17.698
87) cis-1,3-Dichloropropene	(1)	9.334	75	190347	21.207
88) 4-Methyl-2-Pentanone	(1)	9.503	58	562419	84.689
90)$Toluene-d8	(2)	9.642	98	859829	50.295
93) Toluene	(2)	9.715	92	242091	20.427
96) trans-1,3-Dichloropropene	(2)	9.979	75	164141	19.741
97) Ethyl Methacrylate	(2)	10.038	69	202074	19.362
98) 1,1,2-Trichloroethane	(2)	10.185	97	107772	20.606
99) Tetrachloroethene	(2)	10.258	166	99991	21.314
100) 1,3-Dichloropropane	(2)	10.353	76	202637	19.725
101) 2-Hexanone	(2)	10.397	58	625726	81.825
103) Dibromochloromethane	(2)	10.566	129	100072	18.940
104) 1,2-Dibromoethane	(2)	10.676	107	123560	20.540
107)*Chlorobenzene-d5	(2)	11.101	117	626139	50.000
108) Chlorobenzene	(2)	11.131	112	255610	20.633
111) 1,1,1,2-Tetrachloroethane	(2)	11.211	131	82987	21.140
114) Ethylbenzene	(2)	11.211	106	126170	20.344
116) Xylene (Total)	(2)		106	470669	61.763
115) m+p-Xylene	(2)	11.329	106	317284	41.209

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:19.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:49 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:17 sag03174

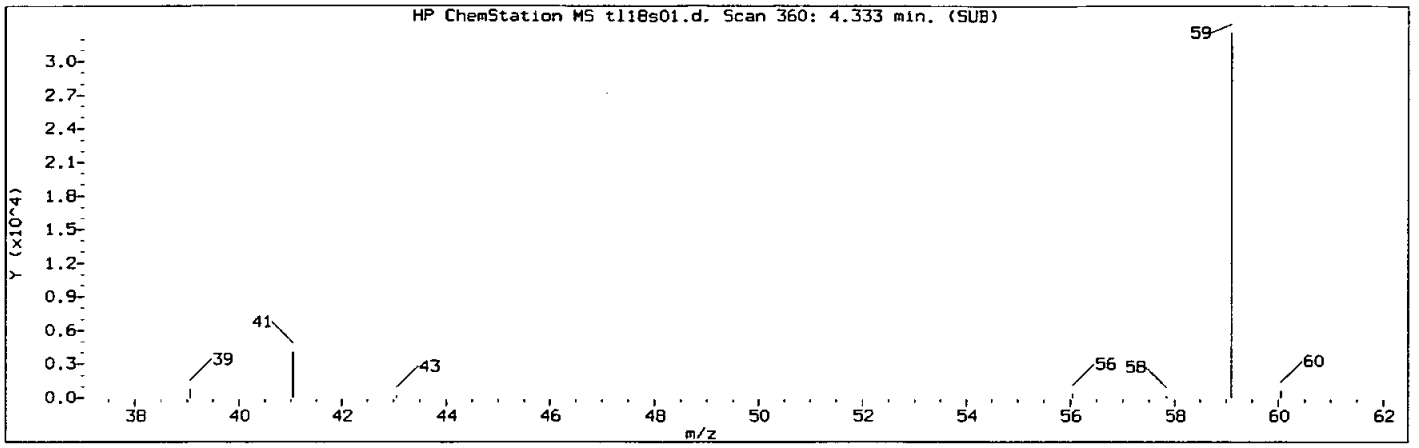
Sample Name: LCST71 Lab Sample ID: LCST71

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
117) o-Xylene	(2)	11.659	106	153385	20.555
119) Styrene	(2)	11.673	104	265948	20.426
120) Bromoform	(2)	11.835	173	73878	17.116
121) Isopropylbenzene	(2)	11.959	105	373400	21.681
124)$4-Bromofluorobenzene	(2)	12.106	95	363200	51.353
126) 1,1,2,2-Tetrachloroethane	(3)	12.209	83	209655	19.096
127) Bromobenzene	(3)	12.223	156	110330	19.721
129) trans-1,4-Dichloro-2-Butene	(3)	12.238	53	229804	59.357
128) 1,2,3-Trichloropropane	(3)	12.253	110	46930	20.553
130) n-Propylbenzene	(3)	12.289	91	513694	21.191
131) 2-Chlorotoluene	(3)	12.363	126	93846	20.006
132) 1,3,5-Trimethylbenzene	(3)	12.421	105	323682	21.441
133) 4-Chlorotoluene	(3)	12.458	126	100197	20.067
134) tert-Butylbenzene	(3)	12.663	134	67503	21.562
135) Pentachloroethane	(3)	12.700	167	56996	18.099
137) 1,2,4-Trimethylbenzene	(3)	12.707	105	334920	21.432
138) sec-Butylbenzene	(3)	12.832	105	395049	21.603
139) 1,3-Dichlorobenzene	(3)	12.927	146	189351	19.833
140) p-Isopropyltoluene	(3)	12.935	119	318272	21.499
141)*1,4-Dichlorobenzene-d4	(3)	12.986	152	319696	50.000
142) 1,4-Dichlorobenzene	(3)	13.001	146	201168	20.372
143) 1,2,3-Trimethylbenzene	(3)	13.015	105	343034	20.590
144) Benzyl Chloride	(3)	13.081	91	258455	18.418
145) 1,3-Diethylbenzene	(3)	13.133	119	182885	19.810
146) 1,4-Diethylbenzene	(3)	13.206	119	191479	19.998
147) n-Butylbenzene	(3)	13.228	92	208138	20.454
148) 1,2-Dichlorobenzene	(3)	13.265	146	184805	20.052
149) 1,2-Diethylbenzene	(3)	13.279	119	155018	20.137
151) 1,2-Dibromo-3-Chloropropane	(3)	13.807	75	36054	19.165
153) 1,3,5-Trichlorobenzene	(3)	13.925	180	138159	21.324
154) 1,2,4-Trichlorobenzene	(3)	14.350	180	124555	21.604
155) Hexachlorobutadiene	(3)	14.423	225	50928	20.408
156) Naphthalene	(3)	14.533	128	353396	20.234
157) 1,2,3-Trichlorobenzene	(3)	14.673	180	112371	20.321

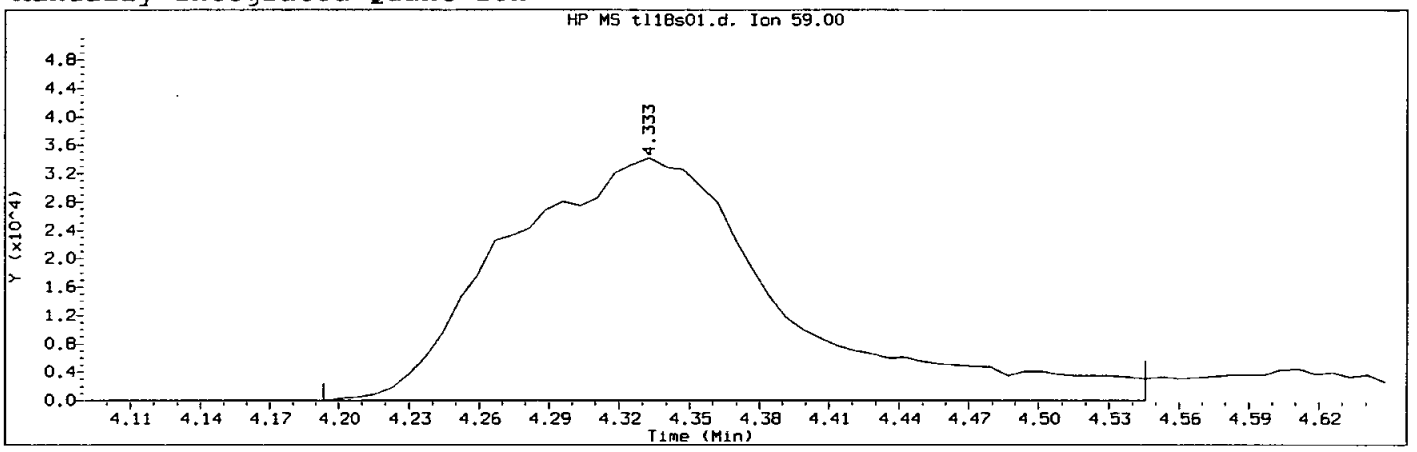
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:19.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:49 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:17 sag03174

Sample Name: LCST71 Lab Sample ID: LCST71

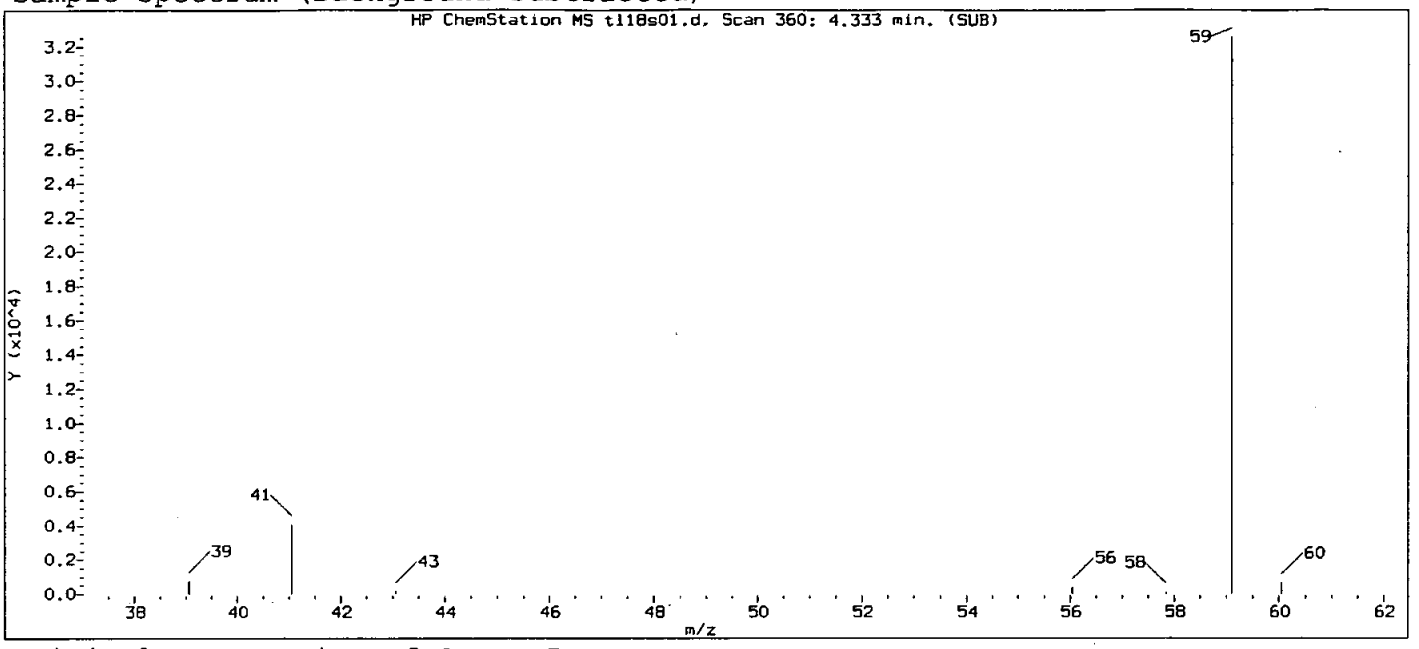
Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 360
Retention Time (minutes): 4.333
Quant Ion : 59.00
Area (flag) : 280621M
On-Column Amount (ng) : 193.6321
Integration start scan : 340 Integration stop scan: 388
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

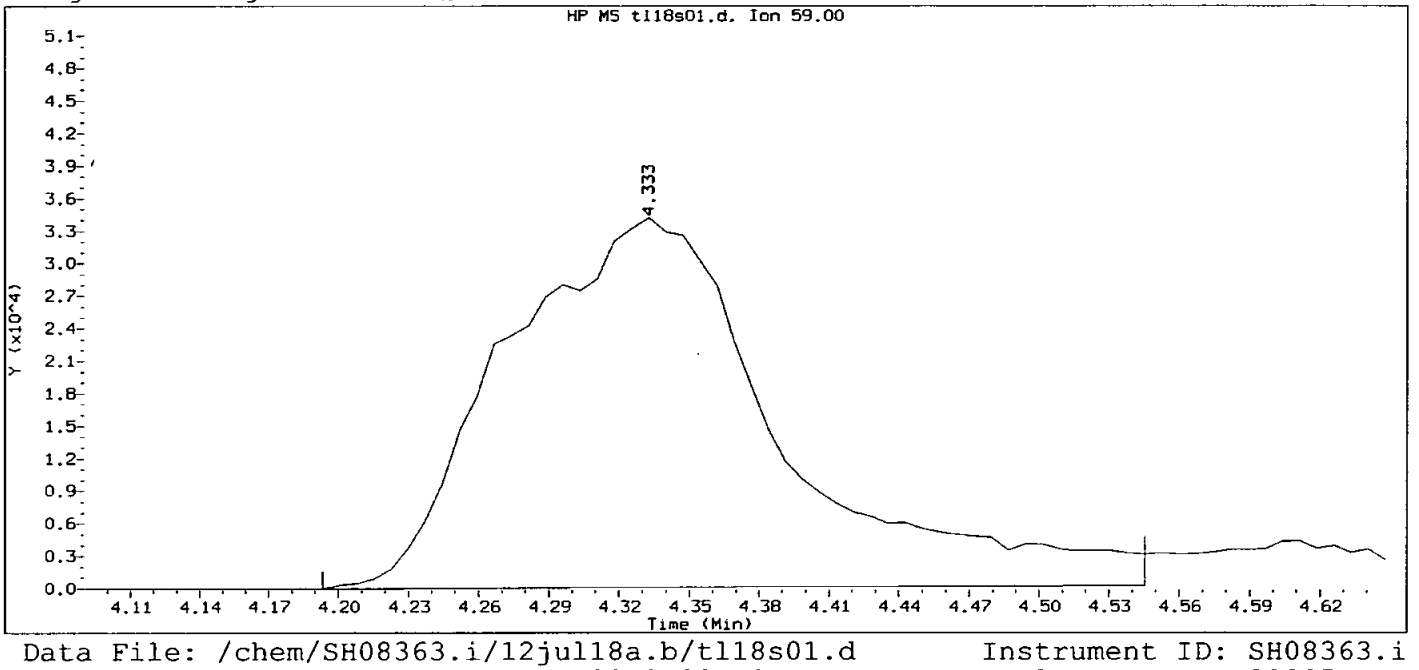
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 16:19. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:49 Analyst ID: LCP00895

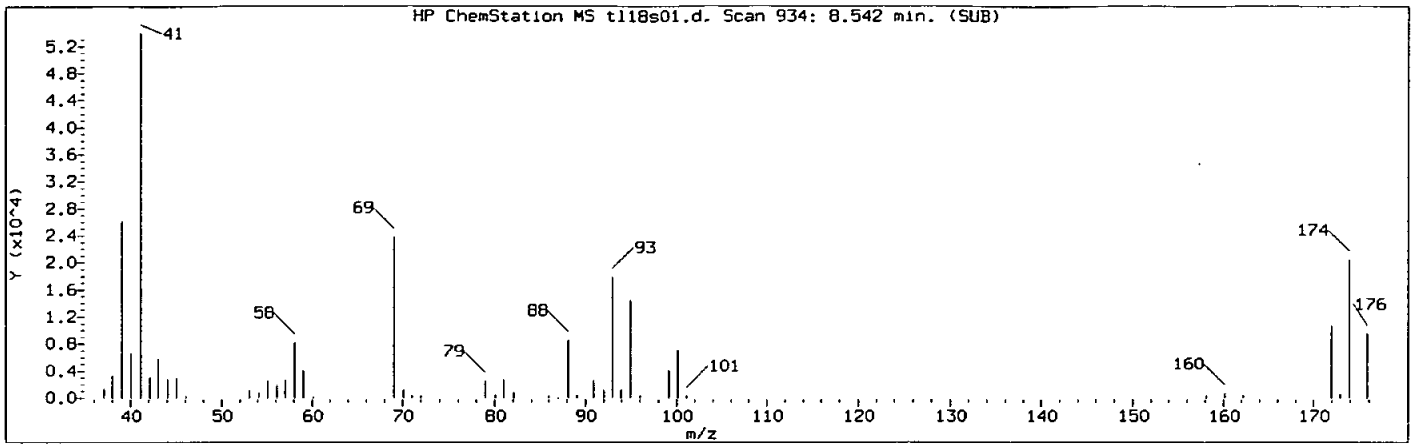
Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 09:27
Date, time and analyst ID of latest file update: 18-Jul-2012 10:38 Automation

Sample Name: LCST71 Lab Sample ID: LCST71

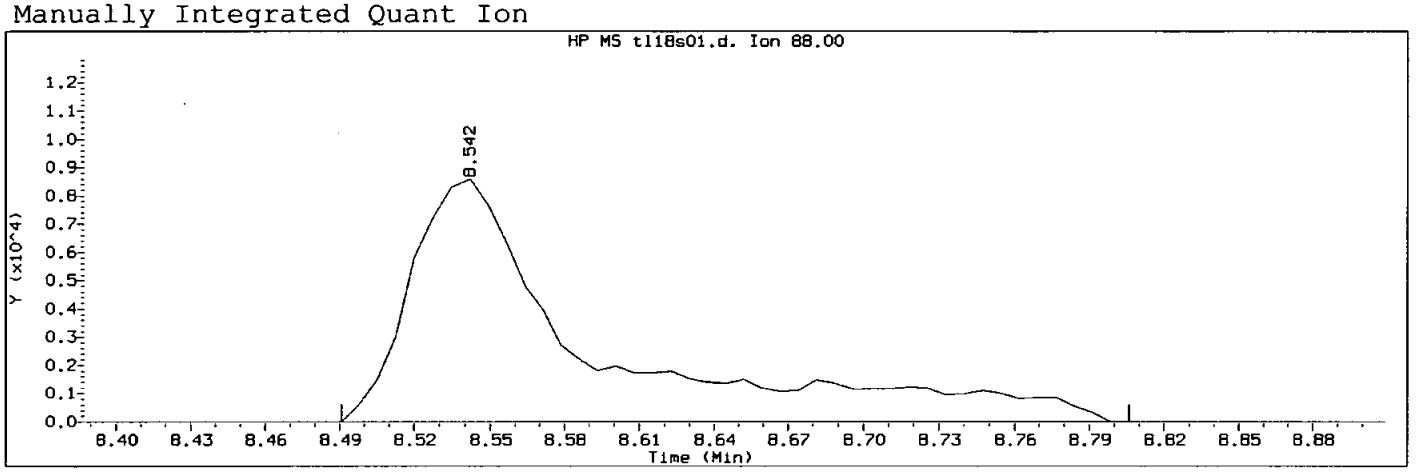
Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 360
Retention Time (minutes): 4.333
Quant Ion : 59.00
Area : 277110
On-column Amount (ng) : 191.2099
Integration start scan : 340 Integration stop scan: 388
Y at integration start : 0 Y at integration end: 267

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:19.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:49 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:17 sag03174

Sample Name: LCST71 Lab Sample ID: LCST71

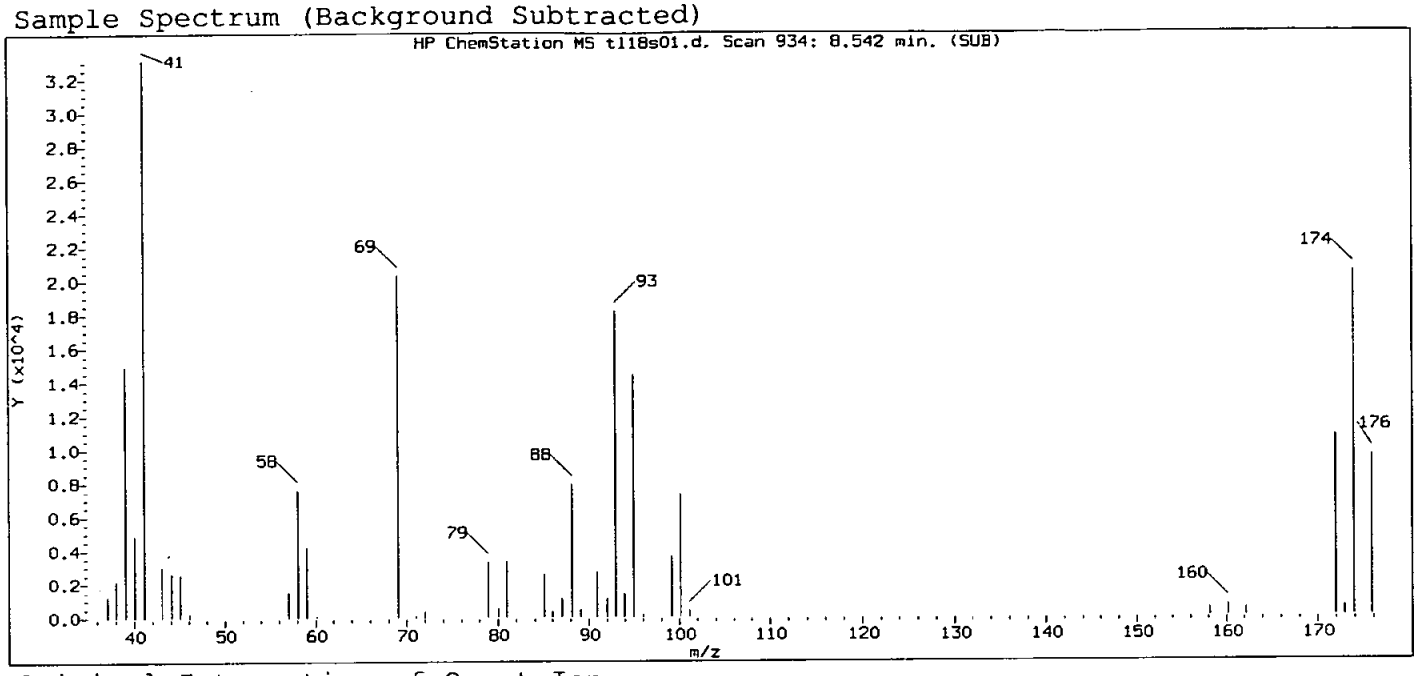
Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 934		
Retention Time (minutes)	: 8.542		
Quant Ion	: 88.00		
Area (flag)	: 42793M		
On-Column Amount (ng)	: 504.1592		
Integration start scan	: 926	Integration stop scan:	969
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

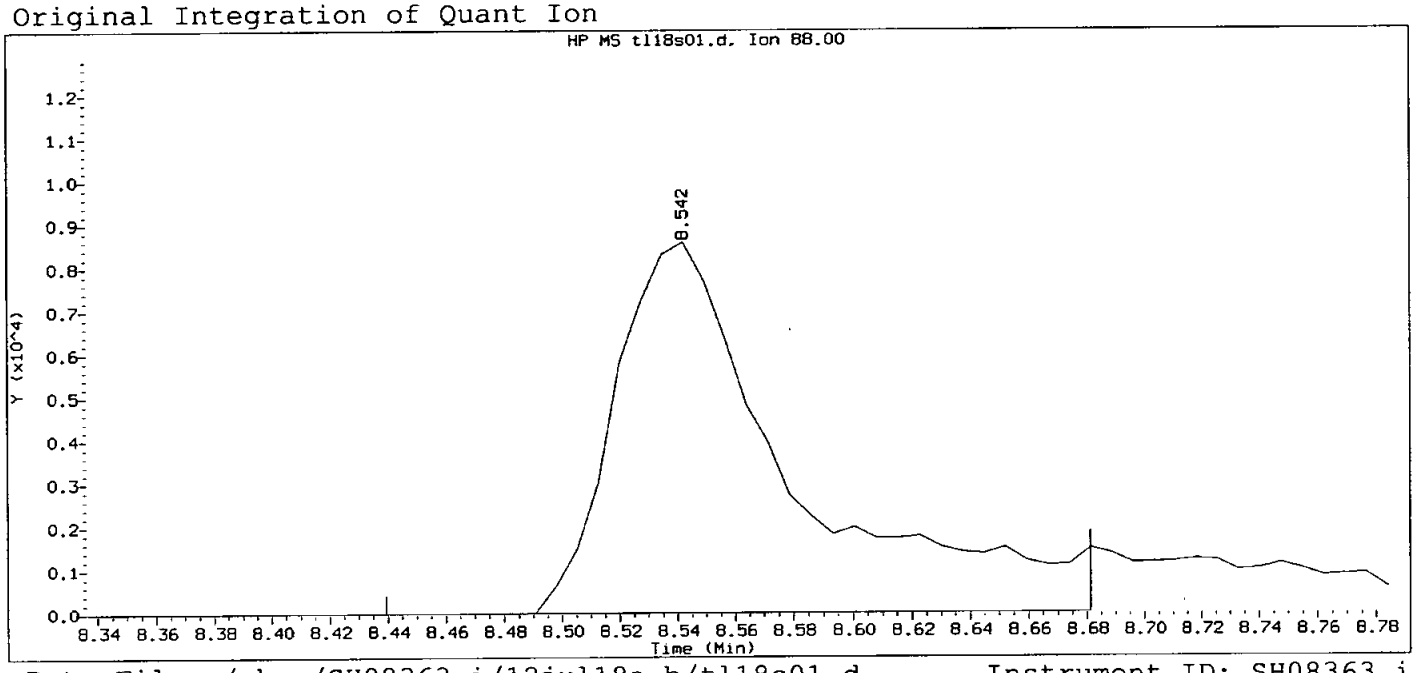
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 16:19. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s01.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 09:49 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 09:27
Date, time and analyst ID of latest file update: 18-Jul-2012 10:38 Automation

Sample Name: LCST71 Lab Sample ID: LCST71

Compound Number : 82
Compound Name : 1,4-Dioxane
Scan Number : 934
Retention Time (minutes): 8.542
Quant Ion : 88.00
Area : 35943
On-column Amount (ng) : 423.4638
Integration start scan : 919 Integration stop scan: 952
Y at integration start : 0 Y at integration end: 0

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:19.
Target 3.5 esignature user ID: sag03174

ASX73 8496

LCDT71 Lancaster Laboratories LCDT71

Analysis Summary for GC/MS Volatiles

Data file: /chem/SH08363.i/12jul18a.b/tl18s02.d
Data file Sample Info. Line: LCDT71;LCDT71;1;3;LCSD;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Injection date and time: **18-JUL-2012 10:13**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
28) t-Butyl Alcohol-d10	4.215(0.000)	344	65	321243 (-8)	250.00	
70) Fluorobenzene	7.633(0.007)	810	96	945891 (-8)	50.00	
107) Chlorobenzene-d5	11.101(0.000)	1283	117	632741 (-8)	50.00	
141) 1,4-Dichlorobenzene-d4	12.986(0.000)	1540	152	318691 (-9)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.753(0.000)	113	269709	50.068	100%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	7.207(0.000)	102	65780	50.349	101%		77 - 113
90) Toluene-d8	(2)	9.635(0.001)	98	870085	50.364	101%		80 - 113
124) 4-Bromofluorobenzene	(2)	12.106(0.000)	95	366449	51.271	103%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)	2.008(0.000)	85	96796	10.245	10.24			2	5
2) Chloromethane	(1)	2.162(0.002)	50	245080M	15.494	15.49			1	5
4) Vinyl Chloride	(1)	2.301(0.000)	62	167990	16.683	16.68			1	5
7) Bromomethane	(1)	2.602(0.001)	94	91200	15.416	15.42			1	5
8) Chloroethane	(1)	2.697(0.001)	64	82779	15.401	15.40			1	5
13) Trichlorofluoromethane	(1)	2.998(0.001)	101	102189	17.247	17.25			2	5
15) Ethyl Ether	(1)	3.233(-0.000)	59	130570	19.075	19.07			2	5
17) Acrolein	(4)	3.416(0.000)	56	397699	102.051	102.05			40	100
18) 1,1-Dichloroethene	(1)	3.548(0.000)	96	86847	20.648	20.65			0.8	5
19) Freon 113	(1)	3.577(0.000)	101	79889	18.850	18.85			2	10
21) Acetone	(1)	3.570(-0.000)	58	237766	178.266	178.27			6	20
23) 2-Propanol	(4)	3.739(-0.003)	45	182066M	155.668	155.67			50	100
22) Methyl Iodide	(1)	3.746(0.001)	142	173557	20.485	20.49			1	5
24) Carbon Disulfide	(1)	3.856(0.001)	76	317691	18.170	18.17			1	5
26) Methyl Acetate	(1)	3.966(-0.000)	43	371475	20.359	20.36			1	5
25) Allyl Chloride	(1)	4.017(0.000)	41	370982	18.886	18.89			1	5
27) Methylene Chloride	(1)	4.201(0.000)	84	126358	19.582	19.58			2	5
29) t-Butyl Alcohol	(4)	4.325(0.003)	59	285885M	195.503	195.50			10	80
30) Acrylonitrile	(1)	4.523(0.000)	53	561539	88.105	88.10			4	20
32) trans-1,2-Dichloroethene	(1)	4.604(0.000)	96	105137	21.101	21.10			0.8	5
31) Methyl Tertiary Butyl Ether	(1)	4.589(0.001)	73	343759	20.609	20.61			0.5	5
34) n-Hexane	(1)	4.993(0.001)	57	164164	18.161	18.16			2	5
36) 1,1-Dichloroethane	(1)	5.249(-0.000)	63	252031	21.100	21.10			1	5
37) di-Isopropyl Ether	(1)	5.301(0.000)	45	727330	18.815	18.81			0.8	5
40) 2-Chloro-1,3-Butadiene	(1)	5.345(0.000)	53	213894	19.086	19.09			1	5
42) Ethyl t-Butyl Ether	(1)	5.821(0.000)	59	467741	21.152	21.15			0.8	5
45) 2-Butanone	(1)	6.027(0.000)	43	1714853	140.361	140.36			3	10
44) cis-1,2-Dichloroethene	(1)	6.063(-0.000)	96	118745	21.244	21.24			0.8	5
41) 1,2-Dichloroethene (total)	(1)		96	223882	42.345	42.35			0.8	5
43) 2,2-Dichloropropane	(1)	6.093(-0.000)	77	132165	21.593	21.59			1	5
46) Propionitrile	(4)	6.122(0.000)	54	327384	116.485	116.49			30	100

M = Compound was manually integrated.

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20. Target 3.5 esignature user ID: sag03174

ASX73 0497

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

LCDT71

Data file: /chem/SH08363.i/12jul18a.b/tl18s02.d
Injection date and time: **18-JUL-2012 10:13**
Data file Sample Info. Line: LCDT71;LCDT71;1;3;LCSD;;;;;
Instrument ID: **SH08363.i** Batch: **T122001AA**
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/tl18s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/tl18c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
47) Methacrylonitrile	(1)	6.327(0.000)	67	637037	139.016	139.02			10	50
49) Bromochloromethane	(1)	6.401(-0.001)	128	58369	19.596	19.60			1	5
50) Tetrahydrofuran	(4)	6.401(0.000)	71	147587	77.484	77.48			4	10
52) Chloroform	(1)	6.540(-0.000)	83	190826	19.106	19.11			0.8	5
55) 1,1,1-Trichloroethane	(1)	6.775(-0.000)	97	124510	22.430	22.43			0.8	5
58) Cyclohexane	(1)	6.870(0.000)	56	218375	18.510	18.51			2	5
59) 1,1-Dichloropropene	(1)	6.965(0.000)	75	145876	19.733	19.73			1	5
60) Carbon Tetrachloride	(1)	6.980(-0.001)	117	92628	21.336	21.34			1	5
61) Isobutyl Alcohol	(4)	7.105(0.000)	41	430515	450.211	450.21			100	250
65) Benzene	(1)	7.229(0.000)	78	431401	19.788	19.79			0.5	5
66) 1,2-Dichloroethane	(1)	7.310(0.000)	62	180196	21.456	21.46			1	5
68) t-Amyl Methyl Ether	(1)	7.427(-0.000)	73	342502	20.415	20.41			0.8	5
69) n-Heptane	(1)	7.633(0.000)	43	235717	16.545	16.54			2	5
73) n-Butanol	(4)	7.985(0.000)	56	506058	908.261	908.26			100	250
74) Trichloroethene	(1)	8.109(-0.001)	95	104074	20.624	20.62			1	5
76) Methylcyclohexane	(1)	8.417(-0.001)	83	135378	17.697	17.70			1	5
79) 1,2-Dichloropropane	(1)	8.454(-0.001)	63	150315	20.937	20.94			1	5
80) Dibromomethane	(1)	8.557(-0.000)	93	90930	20.347	20.35			1	5
82) 1,4-Dioxane	(4)	8.535(0.001)	88	42728M	498.899	498.90			70	250
81) Methyl Methacrylate	(1)	8.520(-0.001)	69	123925	19.049	19.05			1	5
83) Bromodichloromethane	(1)	8.791(-0.001)	83	129590	19.083	19.08			1	5
84) 2-Nitropropane	(1)	9.055(-0.000)	41	58994	15.695	15.70			2	10
85) 2-Chloroethyl Vinyl Ether	(1)	9.151(-0.001)	63	117244	18.409	18.41			2	10
87) cis-1,3-Dichloropropene	(1)	9.334(-0.001)	75	192322	21.452	21.45			1	5
88) 4-Methyl-2-Pentanone	(1)	9.503(-0.001)	58	574007	86.534	86.53			3	10
93) Toluene	(2)	9.715(0.000)	92	240889	20.113	20.11			0.7	5
96) trans-1,3-Dichloropropene	(2)	9.979(0.000)	75	165565	19.705	19.70			1	5
97) Ethyl Methacrylate	(2)	10.031(0.000)	69	206094	19.541	19.54			1	5
98) 1,1,2-Trichloroethane	(2)	10.185(0.000)	97	108133	20.459	20.46			0.8	5
99) Tetrachloroethene	(2)	10.258(0.000)	166	98538	20.785	20.78			0.8	5
100) 1,3-Dichloropropane	(2)	10.346(0.000)	76	205256	19.772	19.77			1	5
101) 2-Hexanone	(2)	10.390(0.000)	58	637807	82.534	82.53			3	10
103) Dibromochloromethane	(2)	10.559(0.000)	129	105510	19.710	19.71			1	5
104) 1,2-Dibromoethane	(2)	10.676(0.000)	107	124677	20.510	20.51			1	5
108) Chlorobenzene	(2)	11.123(0.000)	112	255194	20.384	20.38			0.8	5
111) 1,1,1,2-Tetrachloroethane	(2)	11.211(0.000)	131	83836	21.133	21.13			1	5
114) Ethylbenzene	(2)	11.211(0.000)	106	126302	20.153	20.15			0.8	5
115) m+p-Xylene	(2)	11.329(0.000)	106	316195	40.639	40.64			0.8	5
116) Xylene (Total)	(2)		106	469128	60.919	60.92			0.8	5
117) o-Xylene	(2)	11.659(0.000)	106	152933	20.280	20.28			0.8	5
119) Styrene	(2)	11.673(0.000)	104	266605	20.263	20.26			1	5
120) Bromoform	(2)	11.835(0.000)	173	76028	17.396	17.40			1	5
121) Isopropylbenzene	(2)	11.959(0.000)	105	371180	21.327	21.33			1	5
126) 1,1,2,2-Tetrachloroethane	(3)	12.201(0.000)	83	211766	19.349	19.35			1	5
127) Bromobenzene	(3)	12.216(0.000)	156	112973	20.257	20.26			1	5
129) trans-1,4-Dichloro-2-Butene	(3)	12.231(0.000)	53	231439	59.968	59.97			15	50
128) 1,2,3-Trichloropropane	(3)	12.253(0.000)	110	45155	19.838	19.84			1	5
130) n-Propylbenzene	(3)	12.282(0.000)	91	524833	21.719	21.72			1	5
131) 2-Chlorotoluene	(3)	12.363(0.000)	126	93581	20.012	20.01			1	5
132) 1,3,5-Trimethylbenzene	(3)	12.421(0.000)	105	327540	21.765	21.77			1	5
133) 4-Chlorotoluene	(3)	12.458(0.000)	126	99814	20.054	20.05			1	5
134) tert-Butylbenzene	(3)	12.663(0.000)	134	67964	21.778	21.78			1	5
135) Pentachloroethane	(3)	12.700(0.000)	167	57306	18.255	18.25			1	5
137) 1,2,4-Trimethylbenzene	(3)	12.707(0.000)	105	332780	21.362	21.36			1	5

M = Compound was manually integrated.

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20. Target 3.5 esignature user ID: sag03174

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

LCDT71

Data file: /chem/SH08363.i/12jul18a.b/t118s02.d
Data file Sample Info. Line: LCDT71;LCDT71;1;3;LCSD;;;;;
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Injection date and time: **18-JUL-2012 10:13**
Instrument ID: **SH08363.i** Batch: **T122001AA**

Blank Data file reference: **/chem/SH08363.i/12jul18a.b/t118s03.d**

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 18-JUL-2012 16:02
Mid Level Daily Calibration Standard Reference: **/chem/SH08363.i/12jul18a.b/t118c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

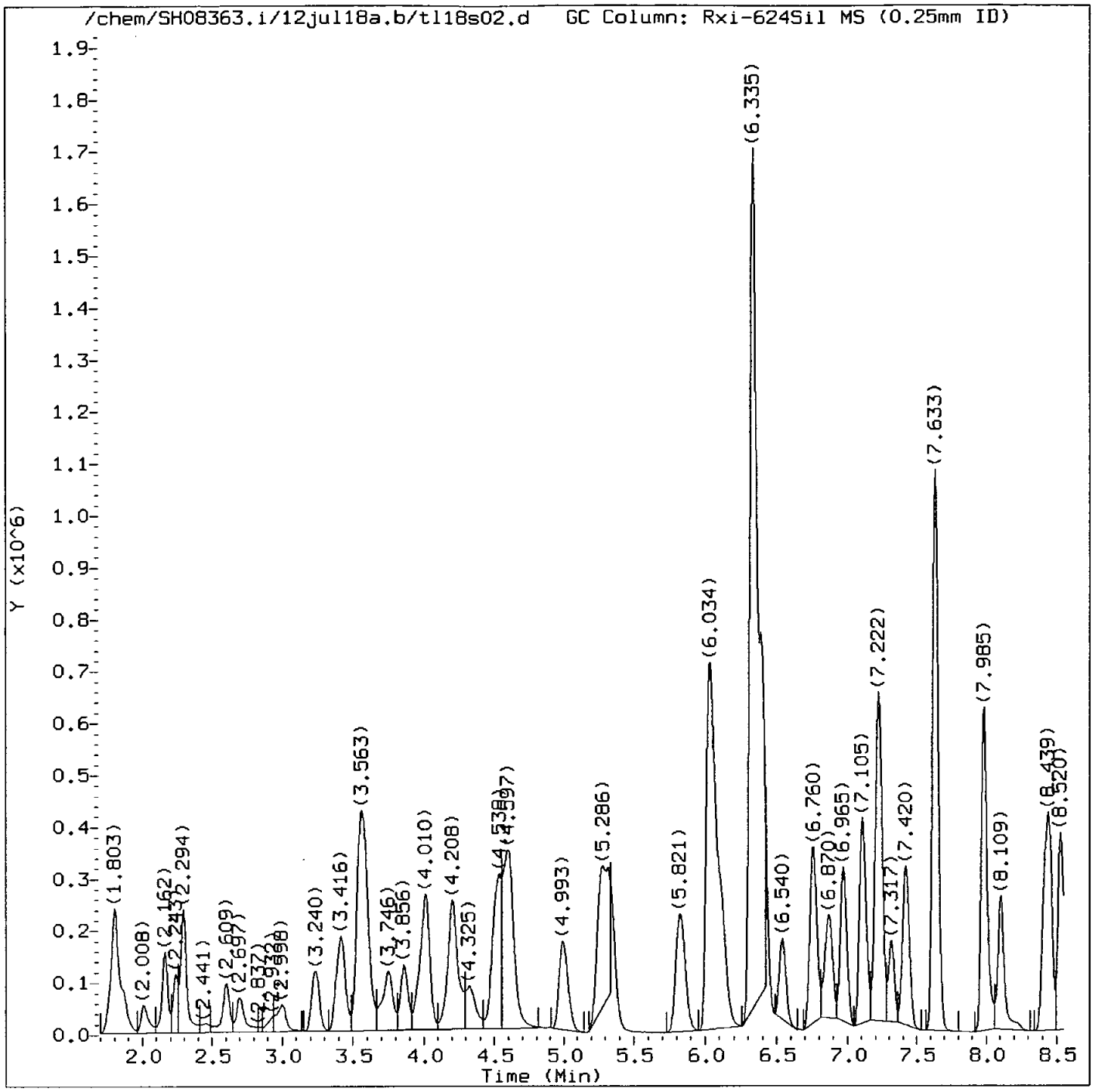
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
138) sec-Butylbenzene	(3)	12.825(0.000)	105	395591	21.701	21.70			1	5
139) 1,3-Dichlorobenzene	(3)	12.927(0.000)	146	192204	20.195	20.19			1	5
140) p-Isopropyltoluene	(3)	12.935(0.000)	119	318321	21.570	21.57			1	5
142) 1,4-Dichlorobenzene	(3)	13.001(0.000)	146	201352	20.454	20.45			1	5
143) 1,2,3-Trimethylbenzene	(3)	13.008(0.000)	105	337747	20.337	20.34			1	5
144) Benzyl Chloride	(3)	13.081(0.000)	91	263439	18.832	18.83			1	5
145) 1,3-Diethylbenzene	(3)	13.133(0.000)	119	182637	19.846	19.85			1	5
146) 1,4-Diethylbenzene	(3)	13.206(0.000)	119	194362	20.363	20.36			1	5
147) n-Butylbenzene	(3)	13.228(0.000)	92	212157	20.914	20.91			1	5
148) 1,2-Dichlorobenzene	(3)	13.257(0.000)	146	186148	20.262	20.26			1	5
149) 1,2-Diethylbenzene	(3)	13.279(0.000)	119	154069	20.077	20.08			1	5
151) 1,2-Dibromo-3-Chloropropane	(3)	13.807(0.000)	75	34447M	18.368	18.37			2	5
153) 1,3,5-Trichlorobenzene	(3)	13.925(0.000)	180	137029	21.217	21.22			1	5
154) 1,2,4-Trichlorobenzene	(3)	14.350(0.000)	180	122295	21.278	21.28			1	5
155) Hexachlorobutadiene	(3)	14.423(0.000)	225	52452	21.085	21.08			2	5
156) Naphthalene	(3)	14.533(0.000)	128	359183	20.630	20.63			1	5
157) 1,2,3-Trichlorobenzene	(3)	14.665(0.000)	180	114296	20.735	20.73			1	5

M = Compound was manually integrated.

Total number of targets = 102

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43. Parallax ID: ahu01800



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d
Injection date and time: 18-JUL-2012 10:13

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 8260W-F

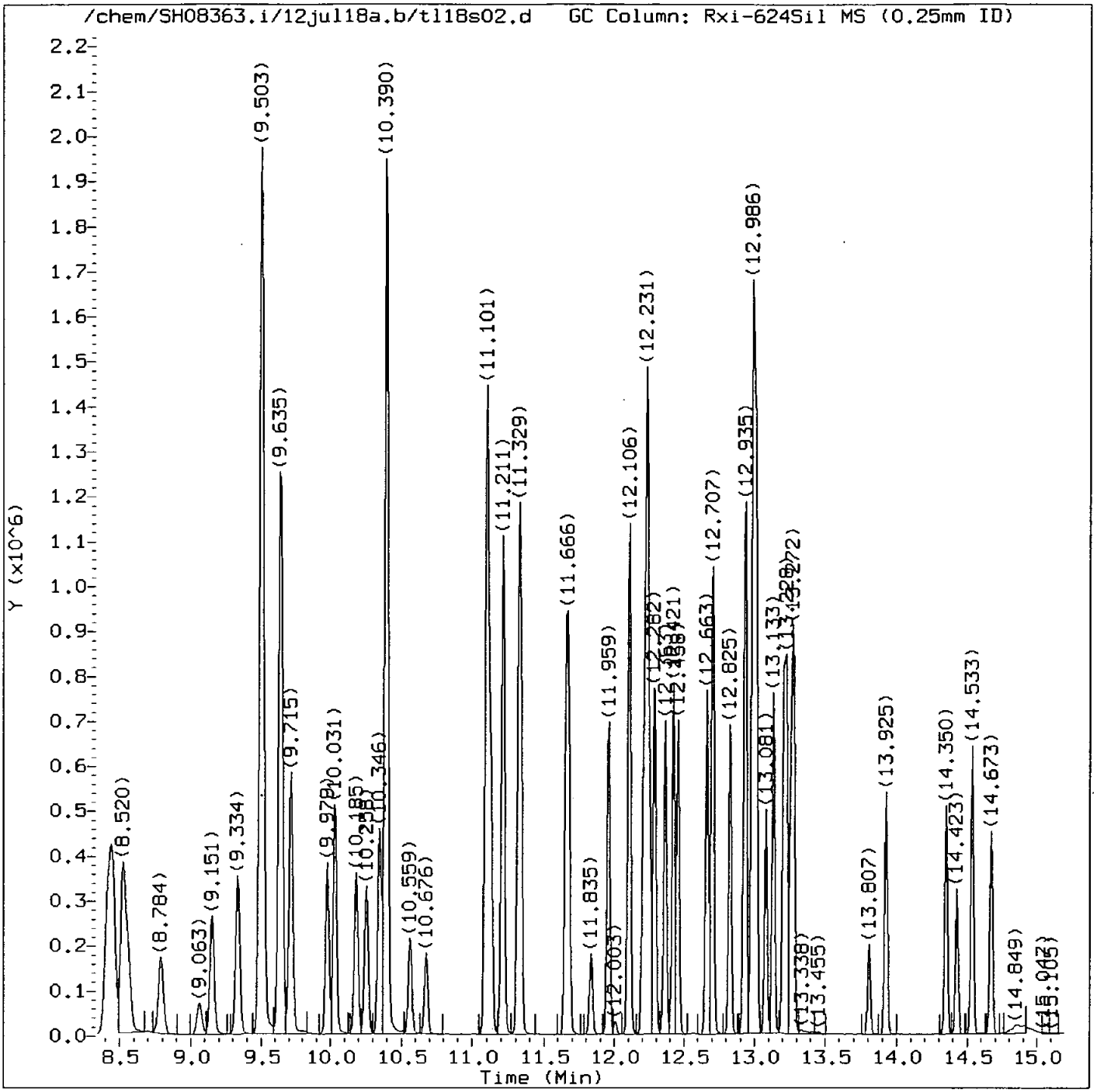
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Sample Name: LCDT71

Lab Sample ID: LCDT71

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:20.
Target 3.5 esignature user ID: sag03174

ASX73 0596



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d
Injection date and time: 18-JUL-2012 10:13

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 8260W-F

Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Sample Name: LCDT71

Lab Sample ID: LCDT71

Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:20.
Target 3.5 esignature user ID: sag03174

ASX73 0581

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Sample Name: LCDT71 Lab Sample ID: LCDT71

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.008	85	96796	10.245
2) Chloromethane	(1)	2.162	50	245080M	15.494
4) Vinyl Chloride	(1)	2.301	62	167990	16.683
7) Bromomethane	(1)	2.602	94	91200	15.416
8) Chloroethane	(1)	2.697	64	82779	15.401
13) Trichlorofluoromethane	(1)	2.998	101	102189	17.247
15) Ethyl Ether	(1)	3.233	59	130570	19.075
17) Acrolein	(4)	3.416	56	397699	102.051
18) 1,1-Dichloroethene	(1)	3.548	96	86847	20.648
21) Acetone	(1)	3.570	58	237766	178.266
19) Freon 113	(1)	3.577	101	79889	18.850
23) 2-Propanol	(4)	3.739	45	182066M	155.668
22) Methyl Iodide	(1)	3.746	142	173557	20.485
24) Carbon Disulfide	(1)	3.856	76	317691	18.170
26) Methyl Acetate	(1)	3.966	43	371475	20.359
25) Allyl Chloride	(1)	4.017	41	370982	18.886
27) Methylene Chloride	(1)	4.201	84	126358	19.582
28)*t-Butyl Alcohol-d10	(4)	4.215	65	321243	250.000
29) t-Butyl Alcohol	(4)	4.325	59	285885M	195.503
30) Acrylonitrile	(1)	4.523	53	561539	88.105
31) Methyl Tertiary Butyl Ether	(1)	4.589	73	343759	20.609
32) trans-1,2-Dichloroethene	(1)	4.604	96	105137	21.101
34) n-Hexane	(1)	4.993	57	164164	18.161
36) 1,1-Dichloroethane	(1)	5.249	63	252031	21.100
37) di-Isopropyl Ether	(1)	5.301	45	727330	18.815
40) 2-Chloro-1,3-Butadiene	(1)	5.345	53	213894	19.086
41) 1,2-Dichloroethene (total)	(1)		96	223882	42.345
42) Ethyl t-Butyl Ether	(1)	5.821	59	467741	21.152
45) 2-Butanone	(1)	6.027	43	1714853	140.361
44) cis-1,2-Dichloroethene	(1)	6.063	96	118745	21.244
43) 2,2-Dichloropropane	(1)	6.093	77	132165	21.593
46) Propionitrile	(4)	6.122	54	327384	116.485
47) Methacrylonitrile	(1)	6.327	67	637037	139.016
49) Bromochloromethane	(1)	6.401	128	58369	19.596
50) Tetrahydrofuran	(4)	6.401	71	147587	77.484
52) Chloroform	(1)	6.540	83	190826	19.106
54)$Dibromofluoromethane	(1)	6.753	113	269709	50.068
55) 1,1,1-Trichloroethane	(1)	6.775	97	124510	22.430

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 16:20.
Target 3.5 esignature user ID: sag03174

ASX73 0592

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Sample Name: LCDT71 Lab Sample ID: LCDT71

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
58) Cyclohexane	(1)	6.870	56	218375	18.510
59) 1,1-Dichloropropene	(1)	6.965	75	145876	19.733
60) Carbon Tetrachloride	(1)	6.980	117	92628	21.336
61) Isobutyl Alcohol	(4)	7.105	41	430515	450.211
62)$1,2-Dichloroethane-d4	(1)	7.207	102	65780	50.349
65) Benzene	(1)	7.229	78	431401	19.788
66) 1,2-Dichloroethane	(1)	7.310	62	180196	21.456
68) t-Amyl Methyl Ether	(1)	7.427	73	342502	20.415
70)*Fluorobenzene	(1)	7.633	96	945891	50.000
69) n-Heptane	(1)	7.633	43	235717	16.545
73) n-Butanol	(4)	7.985	56	506058	908.261
74) Trichloroethene	(1)	8.109	95	104074	20.624
76) Methylcyclohexane	(1)	8.417	83	135378	17.697
79) 1,2-Dichloropropane	(1)	8.454	63	150315	20.937
81) Methyl Methacrylate	(1)	8.520	69	123925	19.049
82) 1,4-Dioxane	(4)	8.535	88	42728M	498.899
80) Dibromomethane	(1)	8.557	93	90930	20.347
83) Bromodichloromethane	(1)	8.791	83	129590	19.083
84) 2-Nitropropane	(1)	9.055	41	58994	15.695
85) 2-Chloroethyl Vinyl Ether	(1)	9.151	63	117244	18.409
87) cis-1,3-Dichloropropene	(1)	9.334	75	192322	21.452
88) 4-Methyl-2-Pentanone	(1)	9.503	58	574007	86.534
90)$Toluene-d8	(2)	9.635	98	870085	50.364
93) Toluene	(2)	9.715	92	240889	20.113
96) trans-1,3-Dichloropropene	(2)	9.979	75	165565	19.705
97) Ethyl Methacrylate	(2)	10.031	69	206094	19.541
98) 1,1,2-Trichloroethane	(2)	10.185	97	108133	20.459
99) Tetrachloroethene	(2)	10.258	166	98538	20.785
100) 1,3-Dichloropropane	(2)	10.346	76	205256	19.772
101) 2-Hexanone	(2)	10.390	58	637807	82.534
103) Dibromochloromethane	(2)	10.559	129	105510	19.710
104) 1,2-Dibromoethane	(2)	10.676	107	124677	20.510
107)*Chlorobenzene-d5	(2)	11.101	117	632741	50.000
108) Chlorobenzene	(2)	11.123	112	255194	20.384
111) 1,1,1,2-Tetrachloroethane	(2)	11.211	131	83836	21.133
114) Ethylbenzene	(2)	11.211	106	126302	20.153
116) Xylene (Total)	(2)		106	469128	60.919
115) m+p-Xylene	(2)	11.329	106	316195	40.639

M = Compound was manually integrated.
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Digitally signed by Sarah A. Guill
on 07/18/2012 at 16:20.
Target 3.5 esignature user ID: sag03174

ASX73 9503

Quant Report

Target Revision 3.5

Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d
Injection date and time: 18-JUL-2012 10:13

Instrument ID: SH08363.i
Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m
Calibration date and time: 18-JUL-2012 16:02

Sublist used: 8260W-F

Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Sample Name: LCDT71

Lab Sample ID: LCDT71

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
117) o-Xylene	(2)	11.659	106	152933	20.280
119) Styrene	(2)	11.673	104	266605	20.263
120) Bromoform	(2)	11.835	173	76028	17.396
121) Isopropylbenzene	(2)	11.959	105	371180	21.327
124) $4-Bromofluorobenzene	(2)	12.106	95	366449	51.271
126) 1,1,2,2-Tetrachloroethane	(3)	12.201	83	211766	19.349
127) Bromobenzene	(3)	12.216	156	112973	20.257
129) trans-1,4-Dichloro-2-Butene	(3)	12.231	53	231439	59.968
128) 1,2,3-Trichloropropane	(3)	12.253	110	45155	19.838
130) n-Propylbenzene	(3)	12.282	91	524833	21.719
131) 2-Chlorotoluene	(3)	12.363	126	93581	20.012
132) 1,3,5-Trimethylbenzene	(3)	12.421	105	327540	21.765
133) 4-Chlorotoluene	(3)	12.458	126	99814	20.054
134) tert-Butylbenzene	(3)	12.663	134	67964	21.778
135) Pentachloroethane	(3)	12.700	167	57306	18.255
137) 1,2,4-Trimethylbenzene	(3)	12.707	105	332780	21.362
138) sec-Butylbenzene	(3)	12.825	105	395591	21.701
139) 1,3-Dichlorobenzene	(3)	12.927	146	192204	20.195
140) p-Isopropyltoluene	(3)	12.935	119	318321	21.570
141) *1,4-Dichlorobenzene-d4	(3)	12.986	152	318691	50.000
142) 1,4-Dichlorobenzene	(3)	13.001	146	201352	20.454
143) 1,2,3-Trimethylbenzene	(3)	13.008	105	337747	20.337
144) Benzyl Chloride	(3)	13.081	91	263439	18.832
145) 1,3-Diethylbenzene	(3)	13.133	119	182637	19.846
146) 1,4-Diethylbenzene	(3)	13.206	119	194362	20.363
147) n-Butylbenzene	(3)	13.228	92	212157	20.914
148) 1,2-Dichlorobenzene	(3)	13.257	146	186148	20.262
149) 1,2-Diethylbenzene	(3)	13.279	119	154069	20.077
151) 1,2-Dibromo-3-Chloropropane	(3)	13.807	75	34447M	18.368
153) 1,3,5-Trichlorobenzene	(3)	13.925	180	137029	21.217
154) 1,2,4-Trichlorobenzene	(3)	14.350	180	122295	21.278
155) Hexachlorobutadiene	(3)	14.423	225	52452	21.085
156) Naphthalene	(3)	14.533	128	359183	20.630
157) 1,2,3-Trichlorobenzene	(3)	14.665	180	114296	20.735

M = Compound was manually integrated.
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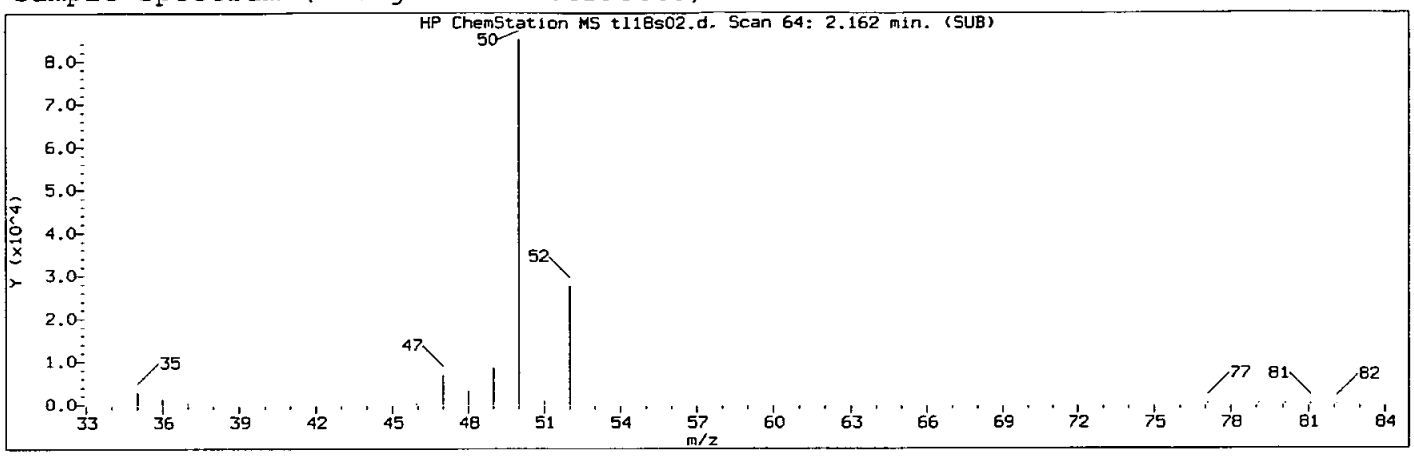
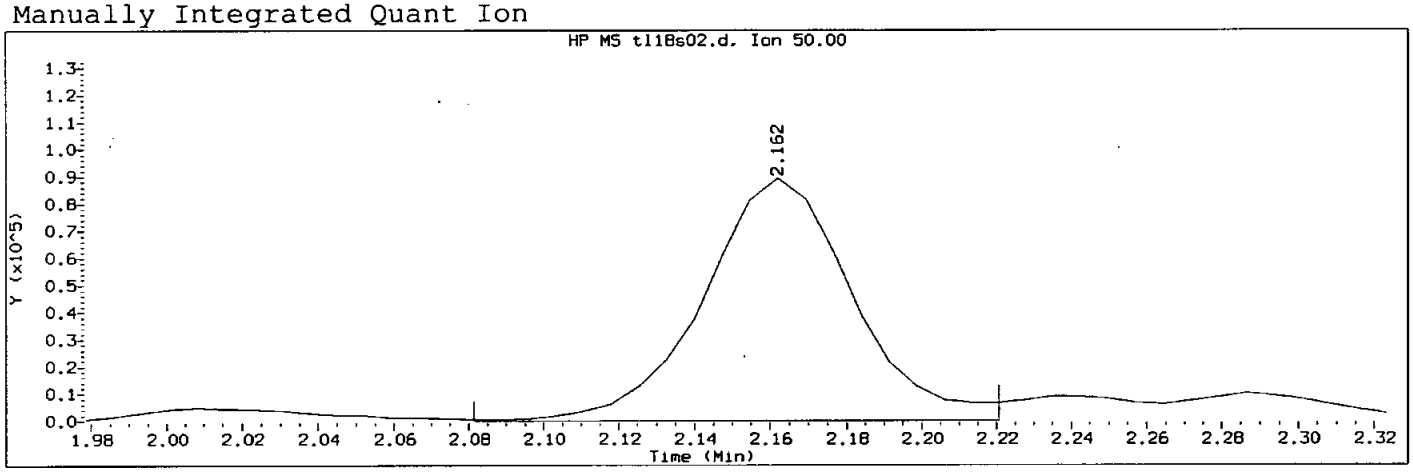
on 07/18/2012 at 16:20.
Target 3.5 esignature user ID: sag03174

ASX73 0504

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Sample Name: LCDT71 Lab Sample ID: LCDT71

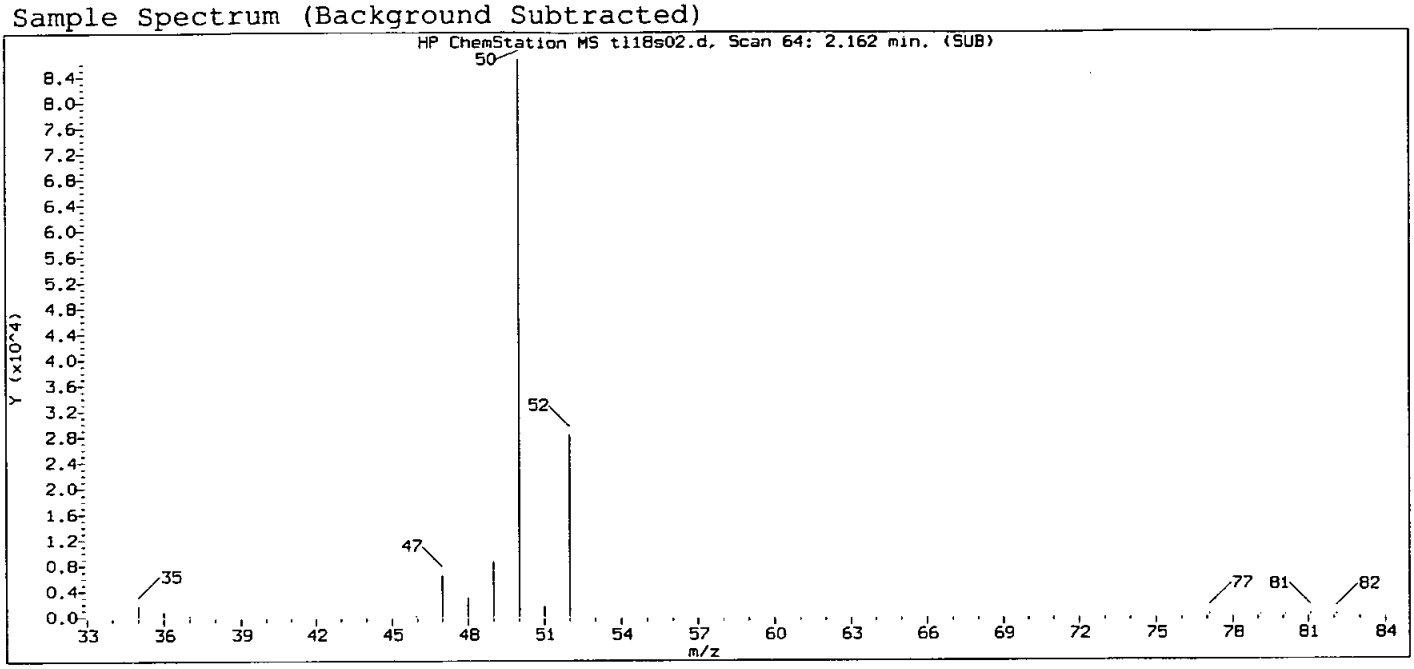
Compound Number	: 2		
Compound Name	: Chloromethane		
Scan Number	: 64		
Retention Time (minutes)	: 2.162		
Quant Ion	: 50.00		
Area (flag)	: 245080M		
On-Column Amount (ng)	: 15.4942		
Integration start scan	: 52	Integration stop scan:	71
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

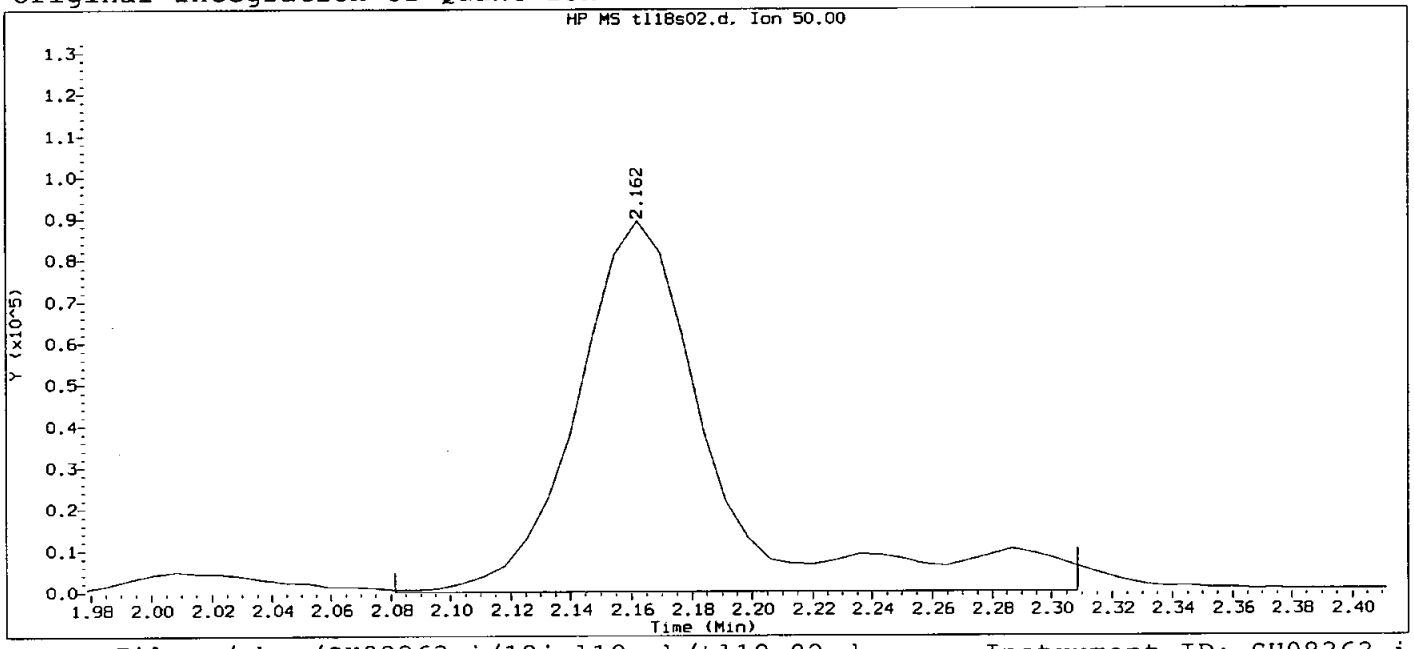
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 09:27
Date, time and analyst ID of latest file update: 18-Jul-2012 10:38 Automation

Sample Name: LCDT71 Lab Sample ID: LCDT71

Compound Number : 2
Compound Name : Chloromethane
Scan Number : 64
Retention Time (minutes): 2.162
Quant Ion : 50.00
Area : 285865
On-column Amount (ng) : 18.0727
Integration start scan : 52 Integration stop scan: 83
Y at integration start : 0 Y at integration end: 0

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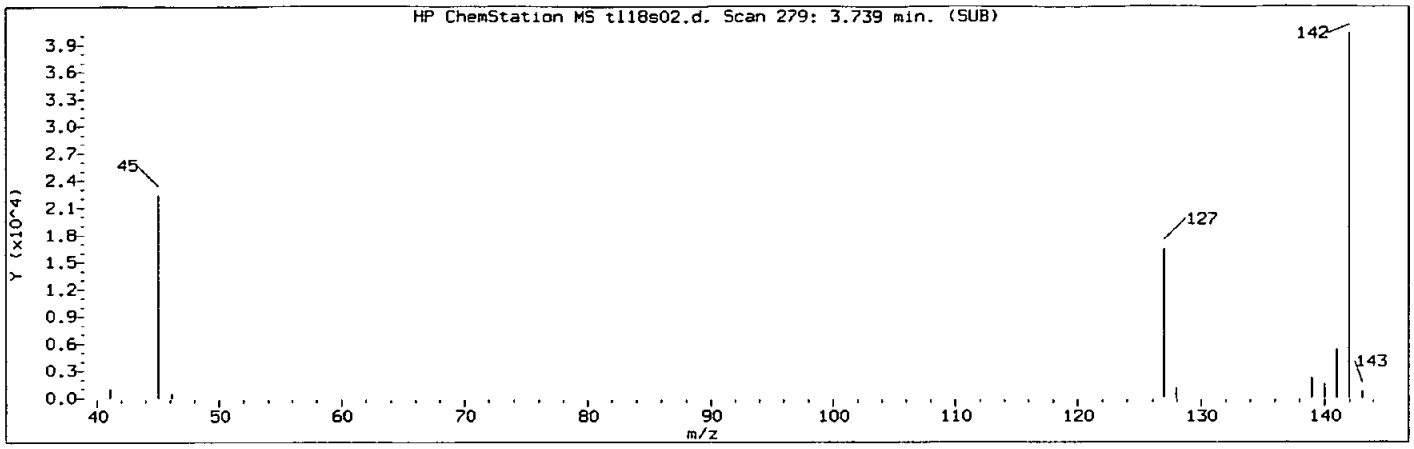
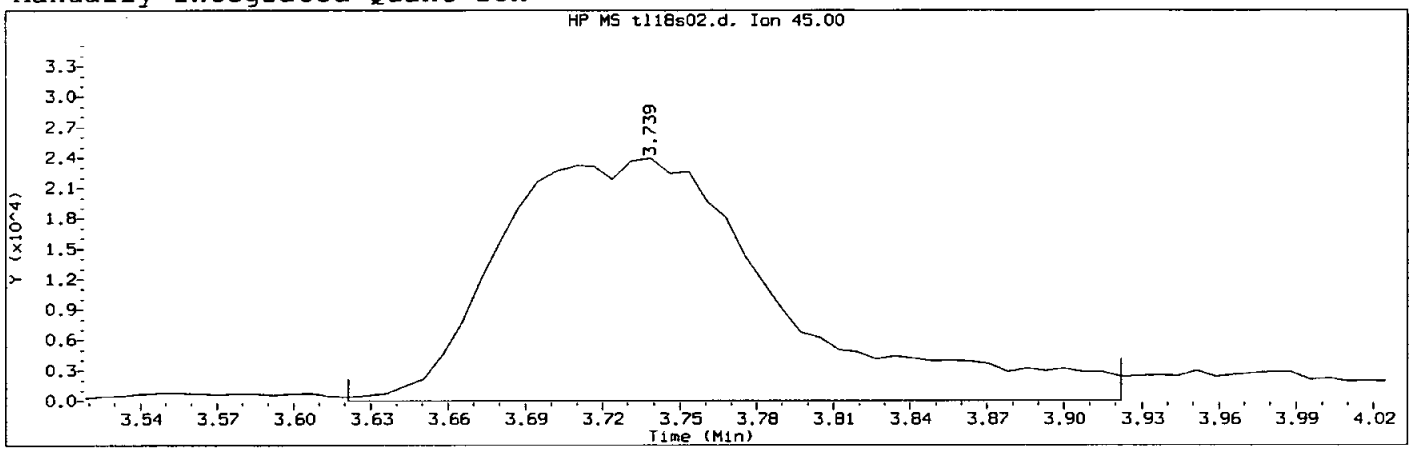
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Sample Name: LCDT71 Lab Sample ID: LCDT71

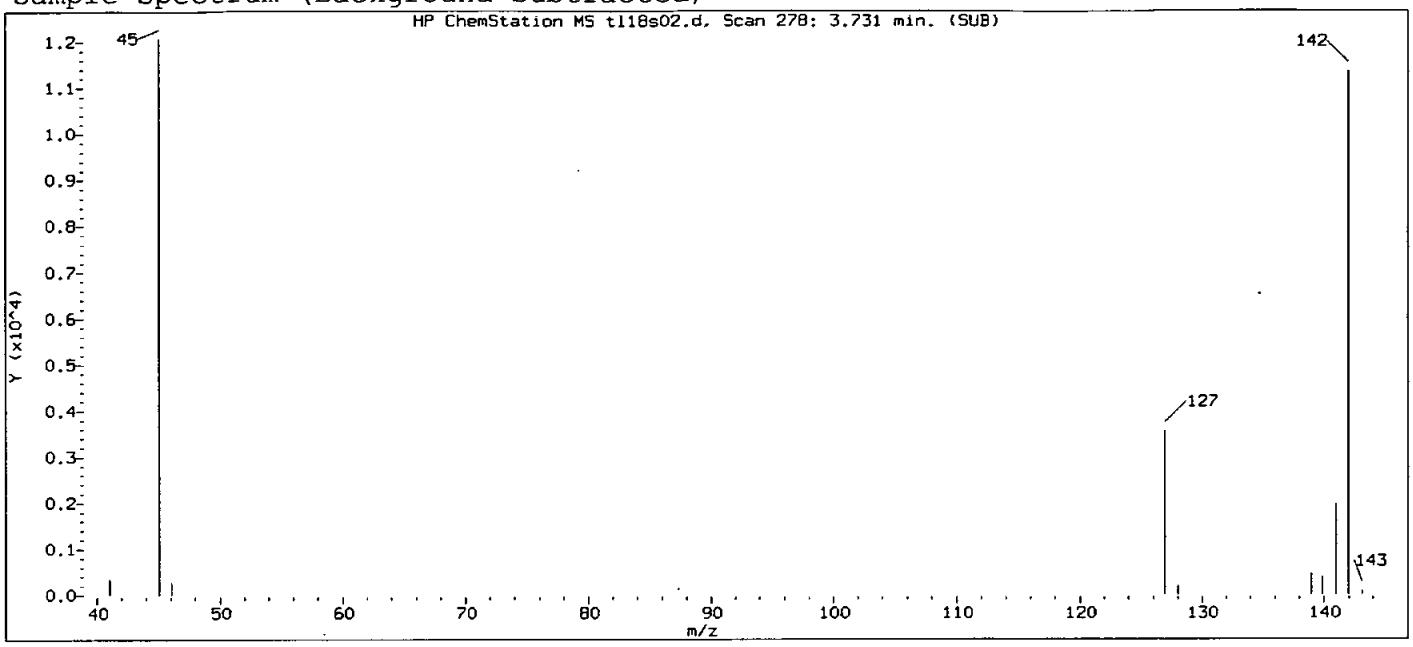
Compound Number : 23
Compound Name : 2-Propanol
Scan Number : 279
Retention Time (minutes): 3.739
Quant Ion : 45.00
Area (flag) : 182066M
On-Column Amount (ng) : 155.6682
Integration start scan : 262 Integration stop scan: 303
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

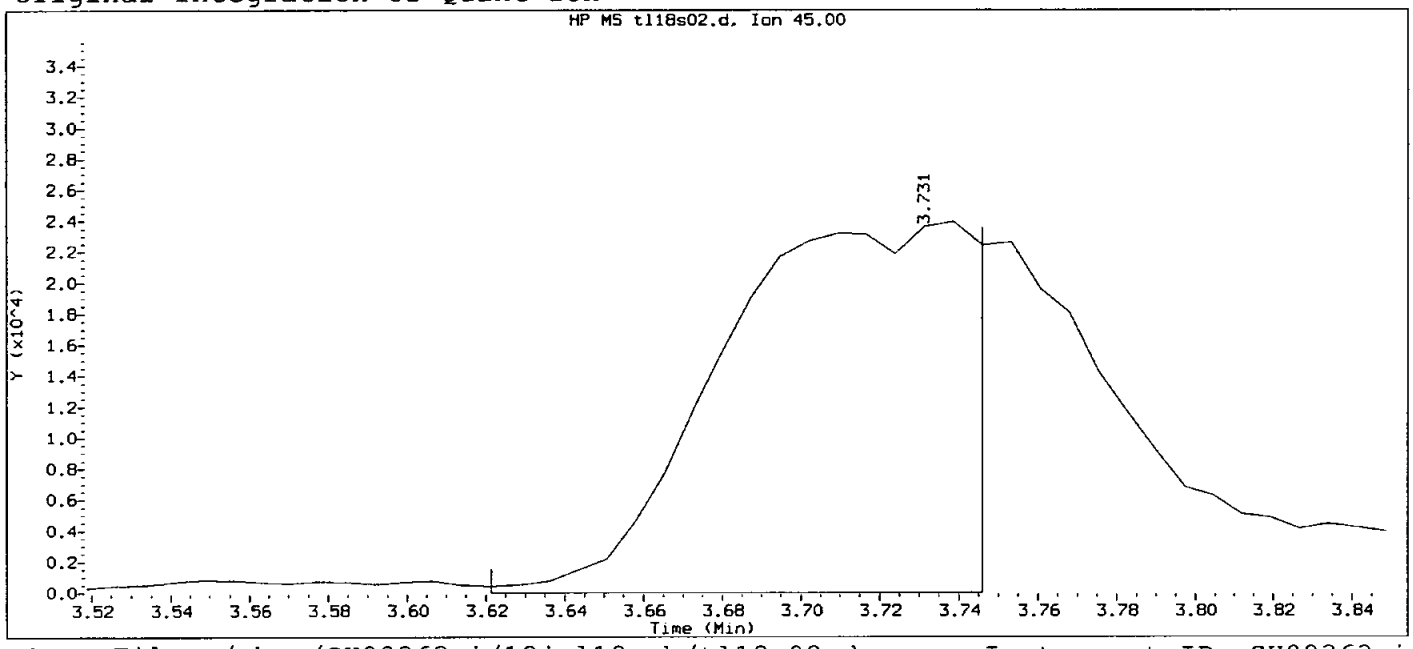
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

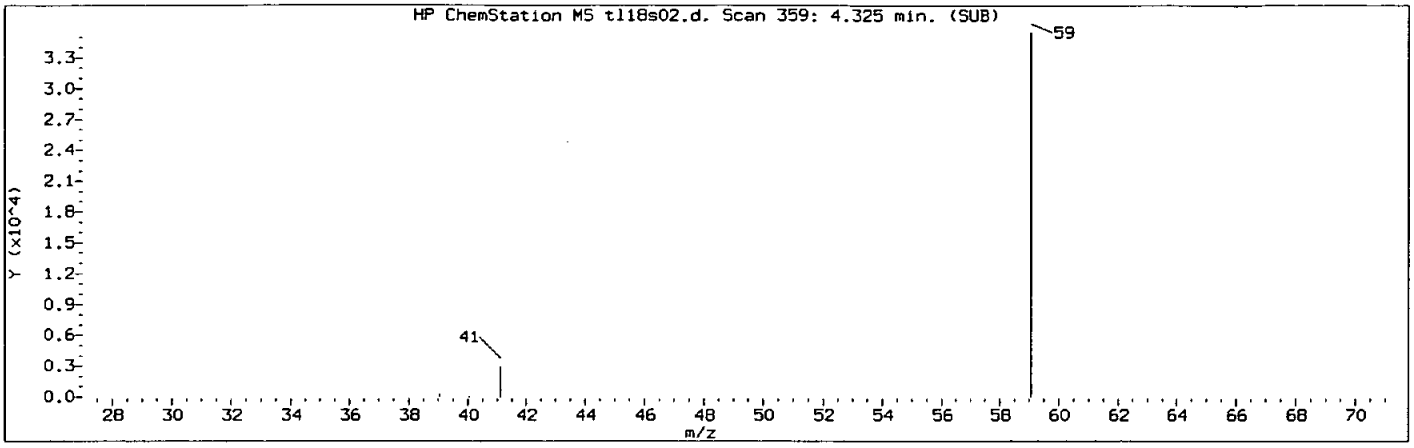
Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 09:27
Date, time and analyst ID of latest file update: 18-Jul-2012 10:38 Automation

Sample Name: LCDT71 Lab Sample ID: LCDT71

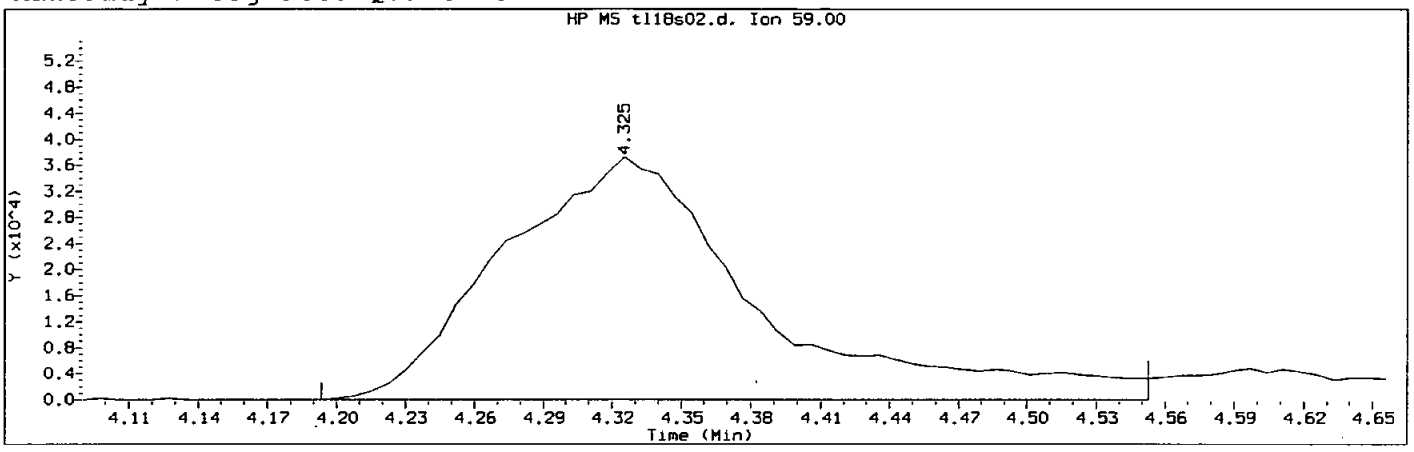
Compound Number : 23
Compound Name : 2-Propanol
Scan Number : 278
Retention Time (minutes): 3.731
Quant Ion : 45.00
Area : 103488
On-column Amount (ng) : 88.4834
Integration start scan : 262 Integration stop scan: 279
Y at integration start : 0 Y at integration end: 0

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Sample Name: LCDT71 Lab Sample ID: LCDT71

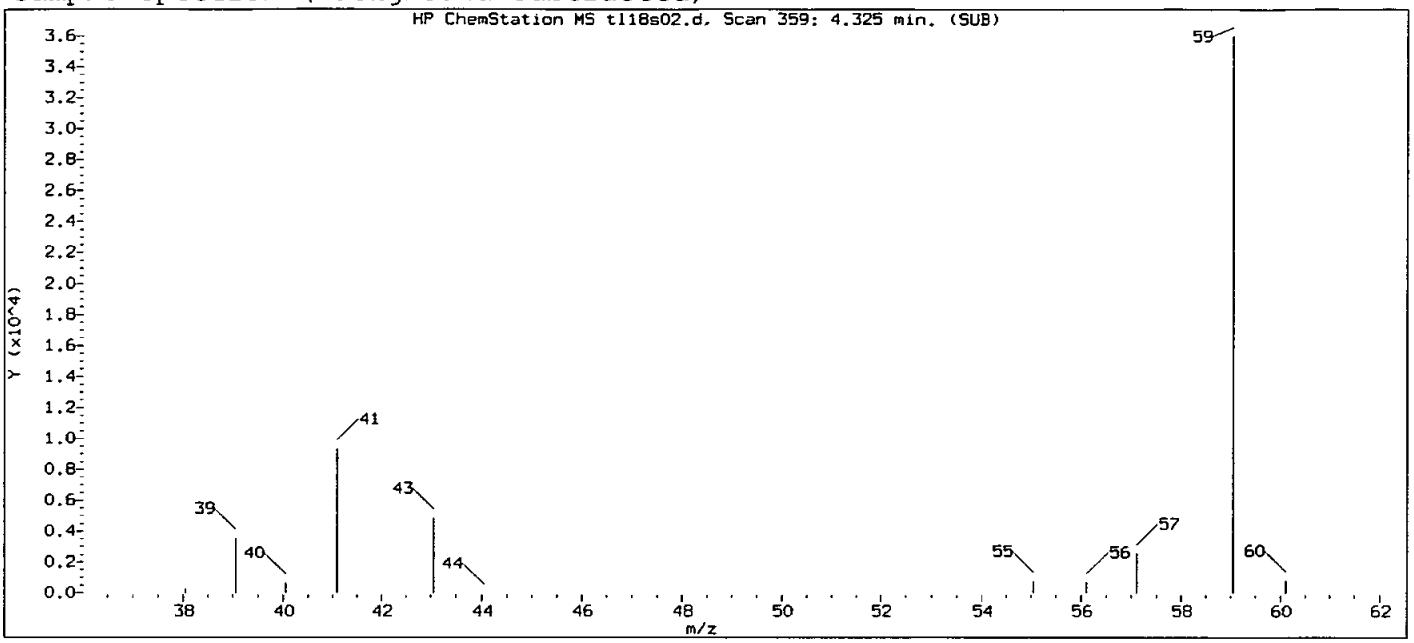
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 359		
Retention Time (minutes)	: 4.325		
Quant Ion	: 59.00		
Area (flag)	: 285885M		
On-Column Amount (ng)	: 195.5032		
Integration start scan	: 340	Integration stop scan:	389
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

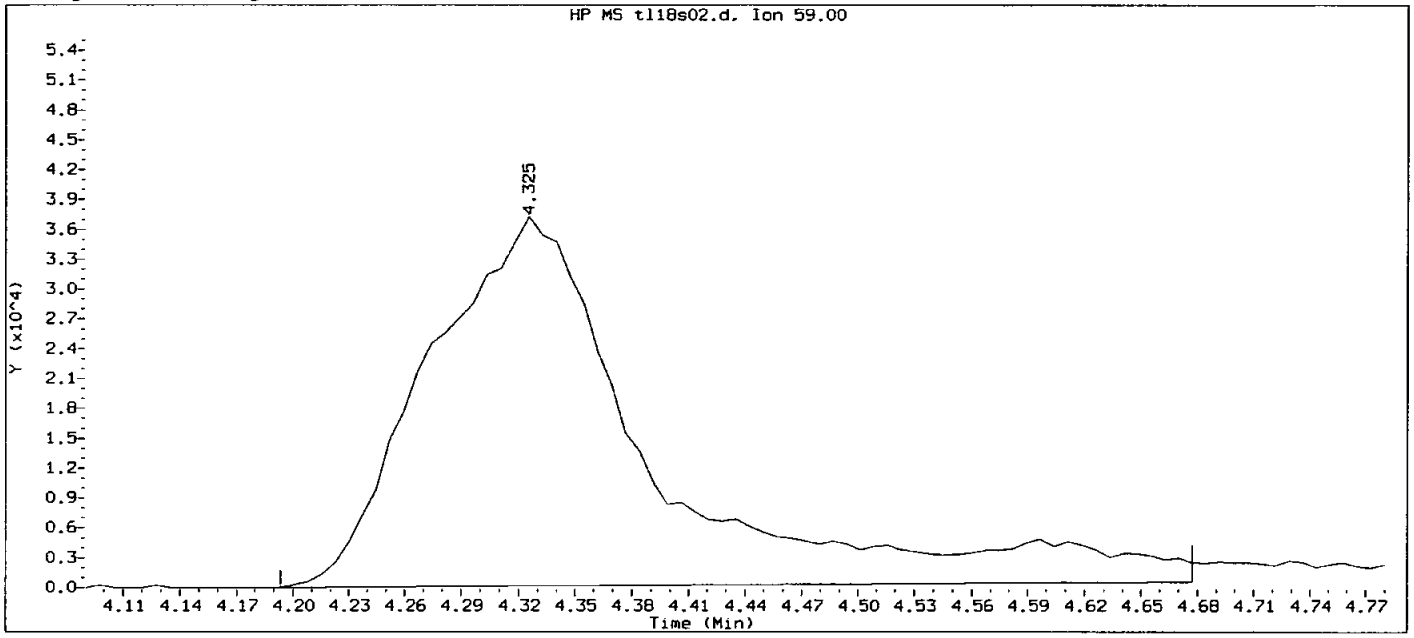
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

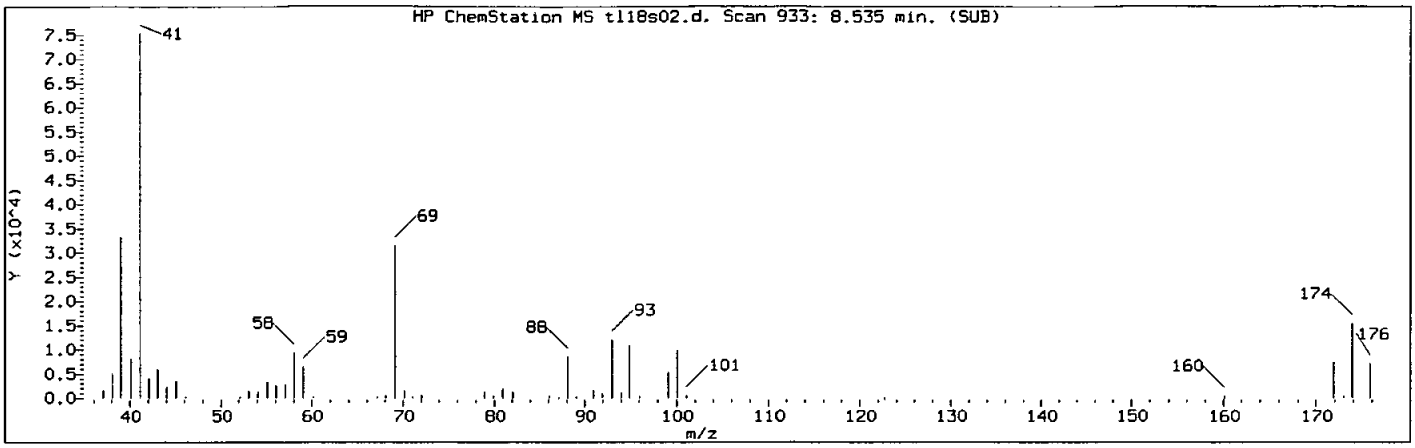
Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 09:27
Date, time and analyst ID of latest file update: 18-Jul-2012 10:38 Automation

Sample Name: LCDT71 Lab Sample ID: LCDT71

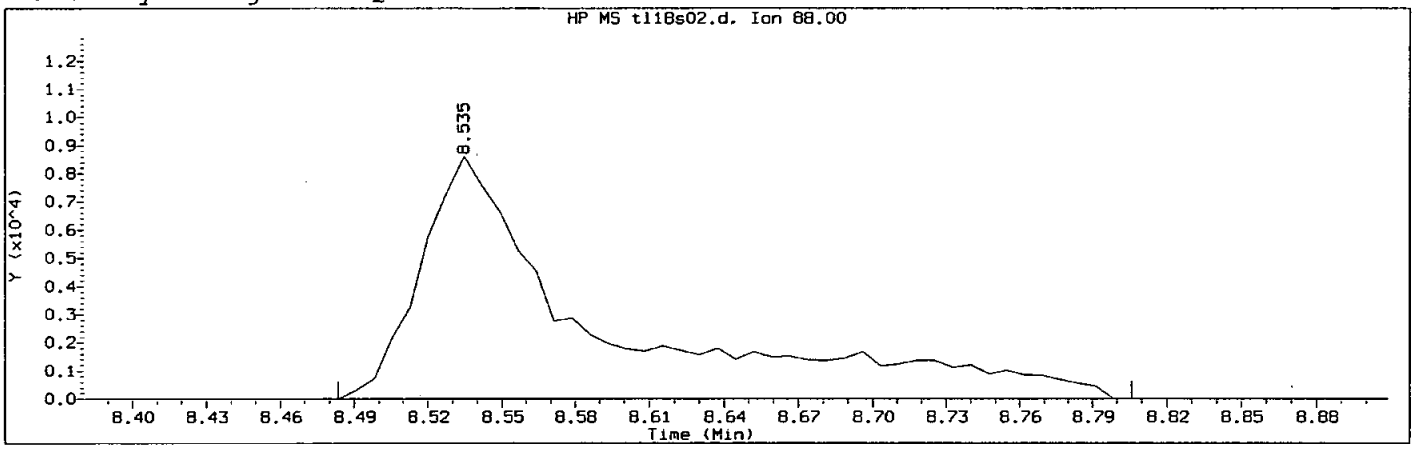
Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 359
Retention Time (minutes): 4.325
Quant Ion : 59.00
Area : 304357
On-column Amount (ng) : 208.1359
Integration start scan : 340 Integration stop scan: 406
Y at integration start : 0 Y at integration end: 584

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/t118s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Sample Name: LCDT71 Lab Sample ID: LCDT71

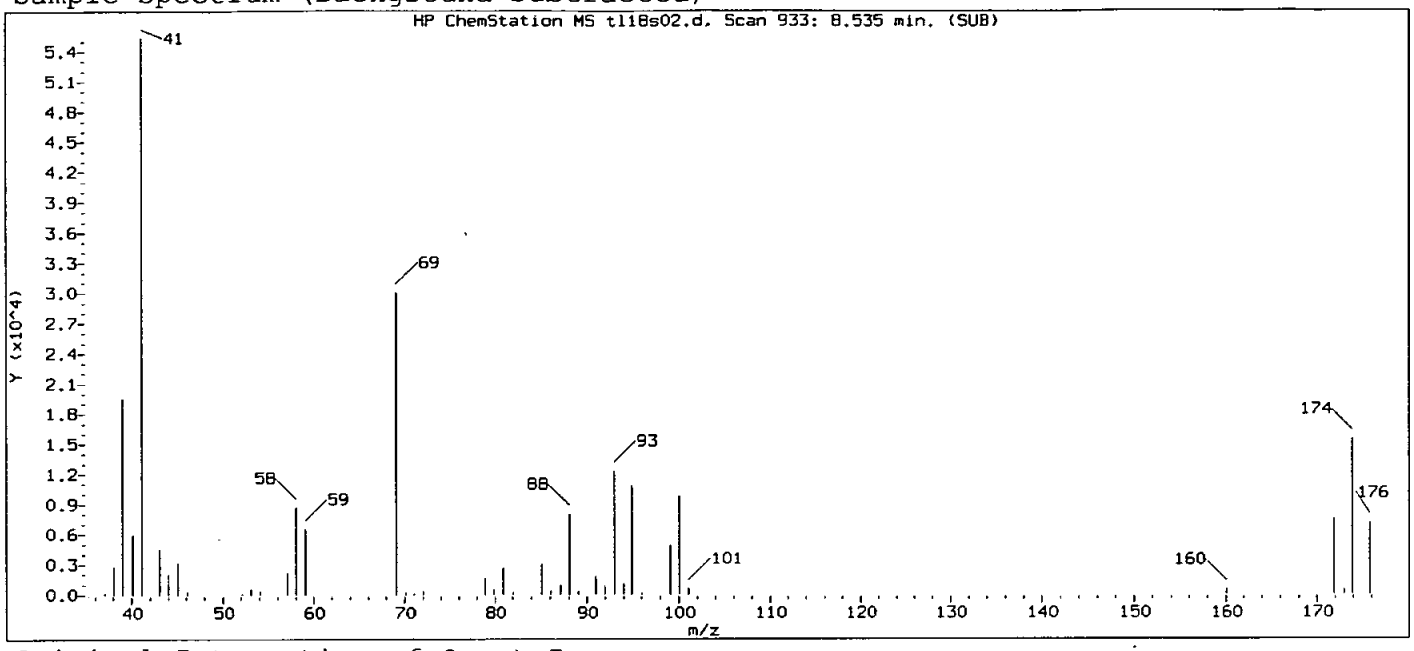
Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 933		
Retention Time (minutes)	: 8.535		
Quant Ion	: 88.00		
Area (flag)	: 42728M		
On-Column Amount (ng)	: 498.8992		
Integration start scan	: 925	Integration stop scan:	969
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

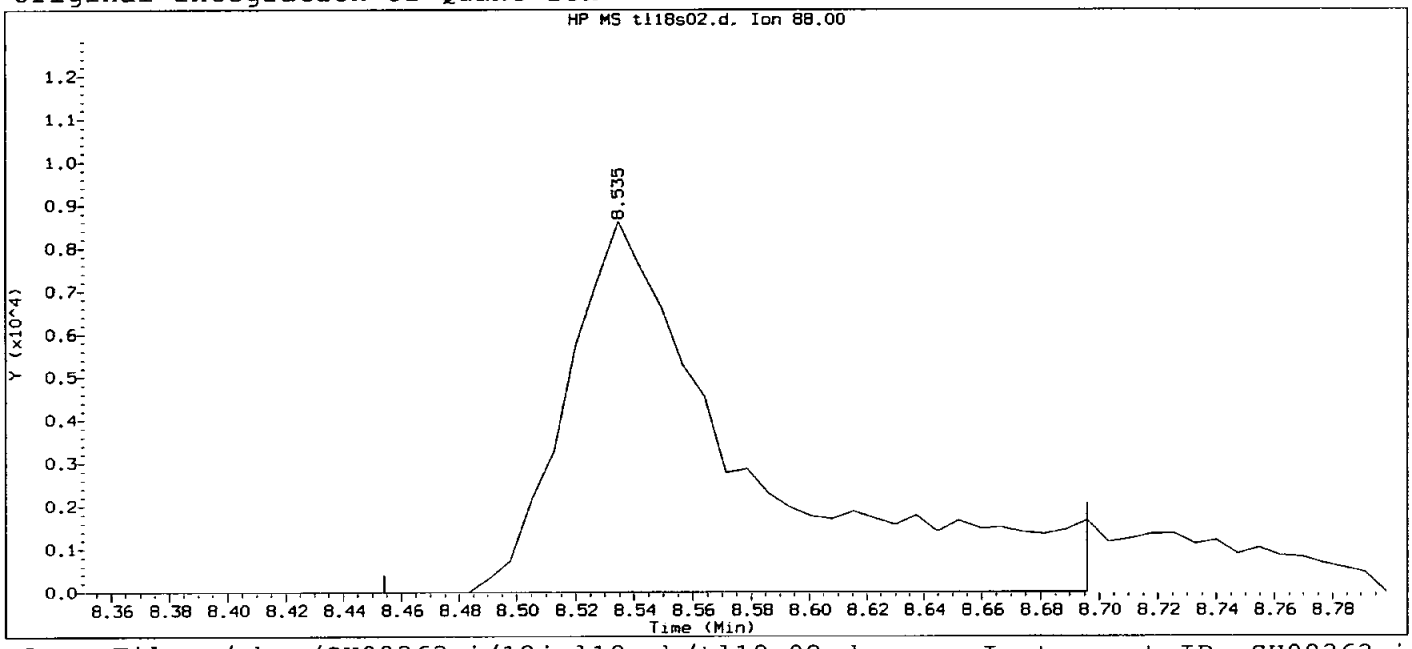
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

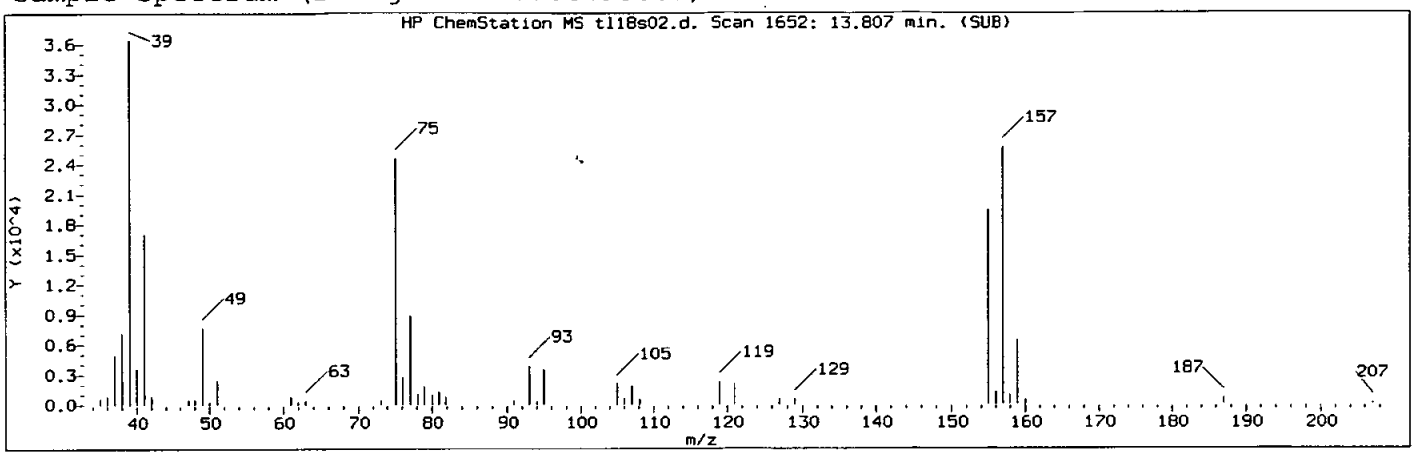
Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 09:27
Date, time and analyst ID of latest file update: 18-Jul-2012 10:38 Automation

Sample Name: LCDT71 Lab Sample ID: LCDT71

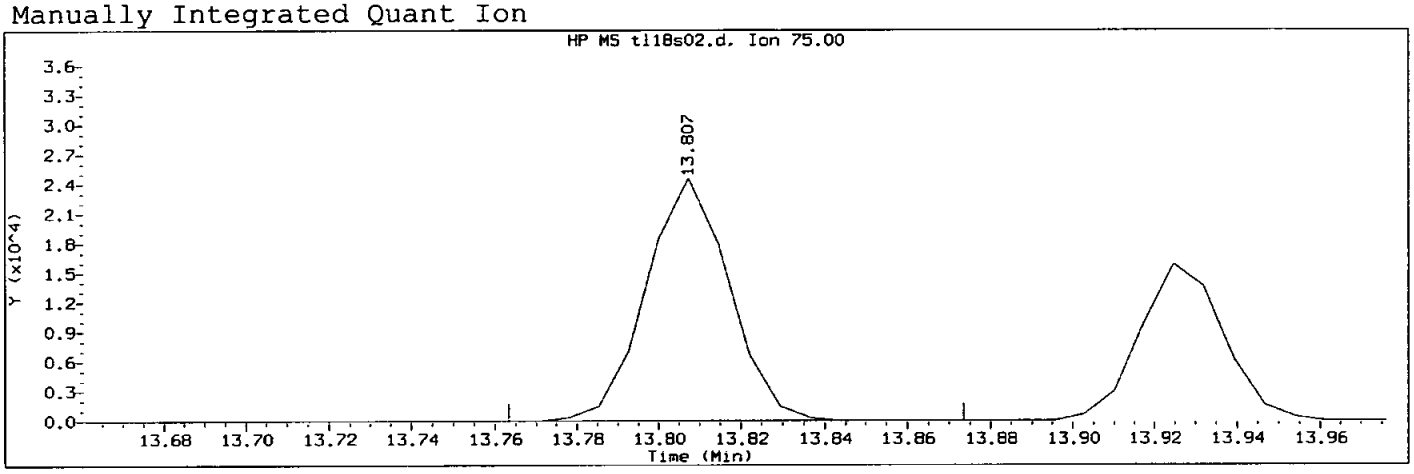
Compound Number	: 82		
Compound Name	: 1,4-Dioxane		
Scan Number	: 933		
Retention Time (minutes)	: 8.535		
Quant Ion	: 88.00		
Area	: 36753		
On-column Amount (ng)	: 429.1440		
Integration start scan	: 921	Integration stop scan:	954
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/t118s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 16:02
Date, time and analyst ID of latest file update: 18-Jul-2012 16:18 sag03174

Sample Name: LCDT71 Lab Sample ID: LCDT71

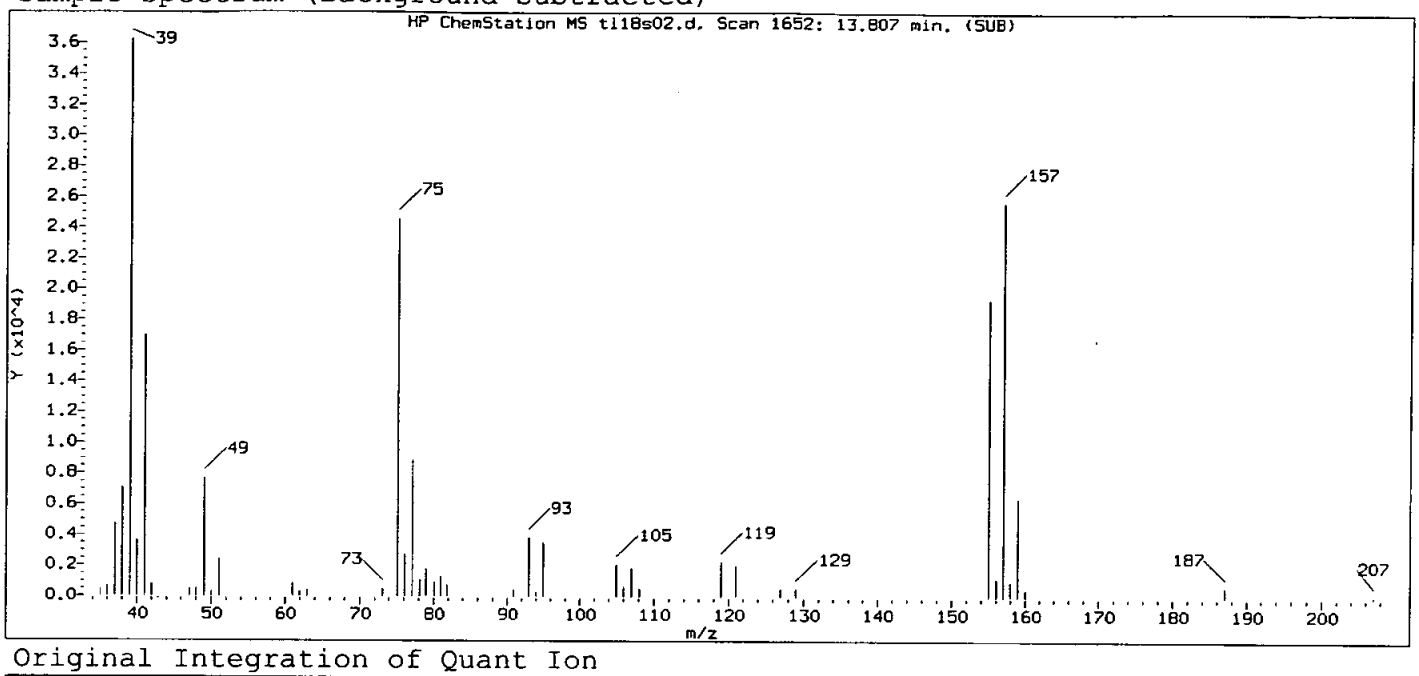
Compound Number	: 151		
Compound Name	: 1,2-Dibromo-3-Chloropropane		
Scan Number	: 1652		
Retention Time (minutes)	: 13.807		
Quant Ion	: 75.00		
Area (flag)	: 34447M		
On-Column Amount (ng)	: 18.3682		
Integration start scan	: 1645	Integration stop scan:	1660
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

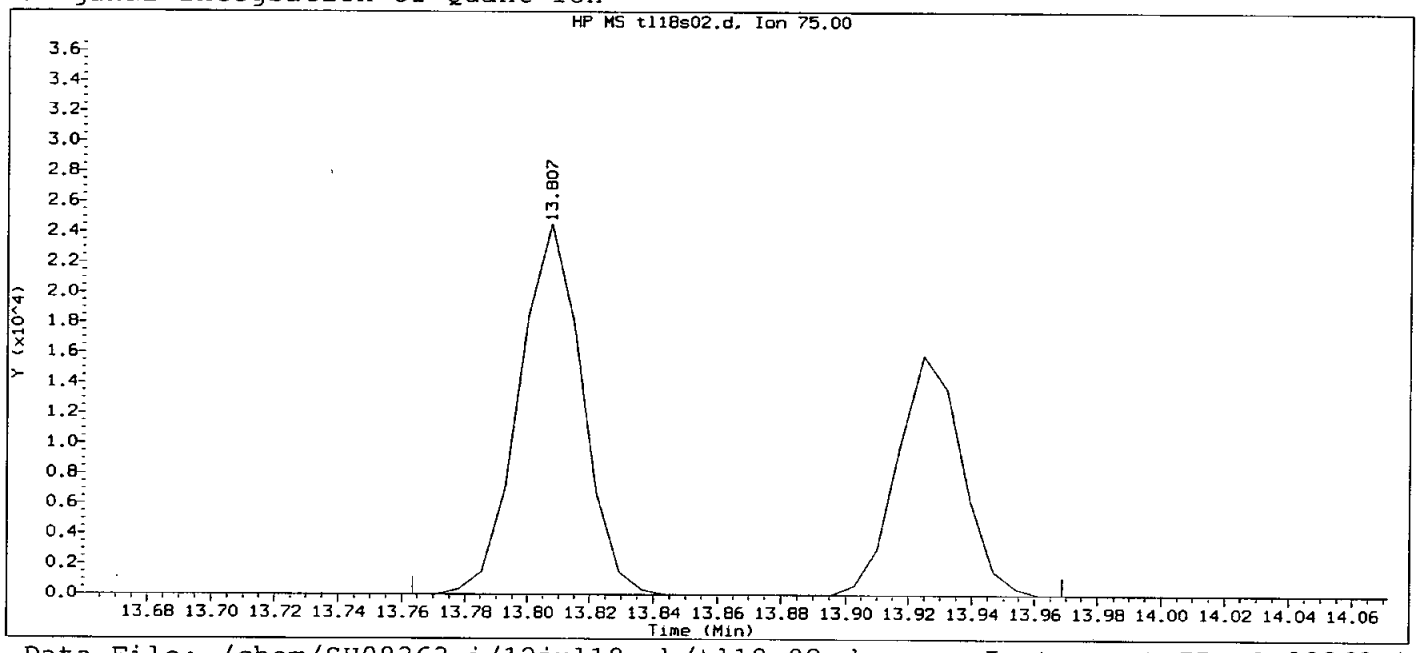
Analyst responsible for change: Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20. Target 3.5 esignature user ID: sag03174

Secondary review performed and digitally signed by Abraham H. Uysal on 07/19/2012 at 11:43.
Parallax ID: ahu01800

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/SH08363.i/12jul18a.b/tl18s02.d Instrument ID: SH08363.i
Injection date and time: 18-JUL-2012 10:13 Analyst ID: LCP00895

Method used: /chem/SH08363.i/12jul18a.b/T826W.m Sublist used: 8260W-F
Calibration date and time: 18-JUL-2012 09:27
Date, time and analyst ID of latest file update: 18-Jul-2012 10:38 Automation

Sample Name: LCDT71 Lab Sample ID: LCDT71

Compound Number : 151
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1652
Retention Time (minutes): 13.807
Quant Ion : 75.00
Area : 57002
On-column Amount (ng) : 30.3956
Integration start scan : 1645 Integration stop scan: 1673
Y at integration start : 0 Y at integration end: 0

Digitally signed by Sarah A. Guill on 07/18/2012 at 16:20.
Target 3.5 esignature user ID: sag03174

Preparation Logs

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VOA Prep Summary by SDG: ASX73

21 - GC/MS Volatiles

Sample Number	Bottle Code	Prep Analysis#	Vial ID	Used for Analysis?	Collected	Prepared	Initial Weight	Final Weight	Net soil weight	Weight requirement	Meets require-ments?	Preserv. lot #	Preservative (volume)	Final Extraction Vol (mL)	Problem Codes
6721498	069A	06172	12425532	N	07/13/12 10:25	07/13/12 10:25	33.45 g	44.13 g	10.68 g	9.00 g - 11.00 g	Y	DE997/A085 809/DE997	MeOH w/surrogate (10 mL)	10.000	
6721498	150A	00374	12426725	Y	07/13/12 10:25	07/16/12 21:36	0.00 g	5.04 g	5.04 g	4.50 g - 5.50 g	Y	1218801	DI Water (5 mL)	5.000	
6721498	150B	00374	12426724	N	07/13/12 10:25	07/16/12 21:36	0.00 g	5.29 g	5.29 g	4.50 g - 5.50 g	Y	1218801	DI Water (5 mL)	5.000	
6721498	169A	06646	12426726	N	07/13/12 10:25	07/16/12 21:31	0.00 g	5.45 g	5.45 g	4.50 g - 5.50 g	Y	1218001	MeOH w/surrogate (5 mL)	5.000	
6721502	069A	06172	12425538	N	07/13/12 12:25	07/13/12 12:25	33.13 g	42.72 g	9.59 g	9.00 g - 11.00 g	Y	DE997/A085 809/DE997	MeOH w/surrogate (10 mL)	10.000	
6721502	150A	00374	12426723	Y	07/13/12 12:25	07/16/12 21:36	0.00 g	5.43 g	5.43 g	4.50 g - 5.50 g	Y	1218801	DI Water (5 mL)	5.000	
6721502	150B	00374	12426722	N	07/13/12 12:25	07/16/12 21:36	0.00 g	4.56 g	4.56 g	4.50 g - 5.50 g	Y	1218801	DI Water (5 mL)	5.000	
6721502	169A	06646	12426727	N	07/13/12 12:25	07/16/12 21:29	0.00 g	4.93 g	4.93 g	4.50 g - 5.50 g	Y	1218001	MeOH w/surrogate (5 mL)	5.000	
6723695	150A	07320	12423052	N	07/17/12 10:01	07/18/12 16:54	31.51 g	34.40 g	2.89 g	4.50 g - 5.50 g	N	1217501	DI Water (5 mL)	5.000	A
6723695	150B	07320	12422999	Y	07/17/12 10:01	07/18/12 16:55	31.46 g	34.05 g	2.59 g	4.50 g - 5.50 g	N	1217501	DI Water (5 mL)	5.000	A
6723695	169A	07578	12422706	N	07/17/12 10:01	07/18/12 16:20	29.19 g	31.78 g	2.59 g	4.50 g - 5.50 g	N	1217701	MeOH w/surrogate (5 mL)	5.000	A
6723696	150A	07320	12423011	N	07/17/12 10:01	07/18/12 16:55	32.07 g	34.56 g	2.49 g	4.50 g - 5.50 g	N	1217501	DI Water (5 mL)	5.000	A
6723696	150B	07320	12423041	Y	07/17/12 10:01	07/18/12 16:54	31.40 g	33.93 g	2.53 g	4.50 g - 5.50 g	N	1217501	DI Water (5 mL)	5.000	A
6723696	169A	07578	12422744	N	07/17/12 10:01	07/18/12 16:30	29.51 g	32.60 g	3.09 g	4.50 g - 5.50 g	N	1217701	MeOH w/surrogate (5 mL)	5.000	A
6723697	150A	07320	12422997	N	07/17/12 10:01	07/18/12 16:54	30.87 g	33.93 g	3.06 g	4.50 g - 5.50 g	N	1217501	DI Water (5 mL)	5.000	A
6723697	150B	07320	12423016	Y	07/17/12 10:01	07/18/12 16:55	31.40 g	34.69 g	3.29 g	4.50 g - 5.50 g	N	1217501	DI Water (5 mL)	5.000	A
6723697	169A	07578	12422748	N	07/17/12 10:01	07/18/12 16:40	29.54 g	32.32 g	2.78 g	4.50 g - 5.50 g	N	1217701	MeOH w/surrogate (5 mL)	5.000	A

Final Extraction Vol (mL) = Preservative Vol + Added MeOH (if applicable)

KEY to problem codes:

A = wt. does not meet requirements B = vial leaked C# where # = volume of MeOH added in mL due to sample not covered/matrix (lot #)
D = sampler not full E = effervescence observed F = pH >= 2 G = headspace in container

Semivolatiles by GC/MS Data

Case Narrative/Conformance Summary

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

TCL 8270 (microwave)

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
6721497	SB-49(0-2)		X	5	
6721503	SB-32(0.0-2.0)		X	1	
6721504	EB-07132012	X		1	Equipment Blank

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:

All criteria were met.

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.

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

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

Narrative Reviewed and Approved 8/2/12 (Date) by Lydia C. Steinke Specialist

Quality Control and Calibration Summary Forms

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Quality Control Reference List
GC/MS Semivolatiles

CLIENT: Stantec
SDG: ASX73

Fraction: Semivolatiles by GC/MS

Analysis	Batch Number	Sample Number	Analysis Date
TCL 8270 (microwave)	12199SLH026	SBLKLH199	07/19/2012 00:45:00
		199LHLCS	07/19/2012 01:07:00
		6721497 UNSPK	07/19/2012 03:44:00
		6721497 MS	07/19/2012 04:07:00
		6721497 MSD	07/19/2012 04:29:00
		6721503	07/19/2012 04:52:00
TCL SW846 Semivolatiles/Waters	12200WAC026	SBLKWC200	07/19/2012 07:10:00
		200WCLCS	07/19/2012 07:33:00
		200WCLCSD	07/19/2012 07:55:00
		6721504	07/19/2012 12:49:00

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Quality Control Summary
Method Blank
GC/MS Semivolatiles
SDG: ASX73
Matrix: SOLID

Fraction: Semivolatiles by GC/MS

12199SLH026 / SBLKLH199 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Phenol	07/19/12	N.D.	ug/kg	17	33
bis(2-Chloroethyl)ether	07/19/12	N.D.	ug/kg	17	33
2-Chlorophenol	07/19/12	N.D.	ug/kg	17	33
1,3-Dichlorobenzene	07/19/12	N.D.	ug/kg	17	33
1,4-Dichlorobenzene	07/19/12	N.D.	ug/kg	17	33
1,2-Dichlorobenzene	07/19/12	N.D.	ug/kg	17	33
2-Methylphenol	07/19/12	N.D.	ug/kg	17	33
4-Methylphenol	07/19/12	N.D.	ug/kg	17	33
N-Nitroso-di-n-propylamine	07/19/12	N.D.	ug/kg	17	33
Hexachloroethane	07/19/12	N.D.	ug/kg	33	170
Nitrobenzene	07/19/12	N.D.	ug/kg	17	33
Isophorone	07/19/12	N.D.	ug/kg	17	33
2-Nitrophenol	07/19/12	N.D.	ug/kg	17	33
2,4-Dimethylphenol	07/19/12	N.D.	ug/kg	17	33
2,2'-oxybis(1-Chloropropane)	07/19/12	N.D.	ug/kg	17	33
bis(2-Chloroethoxy)methane	07/19/12	N.D.	ug/kg	17	33
2,4-Dichlorophenol	07/19/12	N.D.	ug/kg	17	33
1,2,4-Trichlorobenzene	07/19/12	N.D.	ug/kg	17	33
Naphthalene	07/19/12	N.D.	ug/kg	3	17
4-Chloroaniline	07/19/12	N.D.	ug/kg	17	33
Hexachlorobutadiene	07/19/12	N.D.	ug/kg	17	33
4-Chloro-3-methylphenol	07/19/12	N.D.	ug/kg	17	33
2-Methylnaphthalene	07/19/12	N.D.	ug/kg	3	17
Hexachlorocyclopentadiene	07/19/12	N.D.	ug/kg	170	500
2,4,6-Trichlorophenol	07/19/12	N.D.	ug/kg	17	33
2,4,5-Trichlorophenol	07/19/12	N.D.	ug/kg	17	33
2-Chloronaphthalene	07/19/12	N.D.	ug/kg	7	33
2-Nitroaniline	07/19/12	N.D.	ug/kg	17	33
Dimethylphthalate	07/19/12	N.D.	ug/kg	67	170
2,6-Dinitrotoluene	07/19/12	N.D.	ug/kg	17	33
Acenaphthylene	07/19/12	N.D.	ug/kg	3	17
3-Nitroaniline	07/19/12	N.D.	ug/kg	67	170
Acenaphthene	07/19/12	N.D.	ug/kg	3	17
2,4-Dinitrophenol	07/19/12	N.D.	ug/kg	300	1000
4-Nitrophenol	07/19/12	N.D.	ug/kg	170	500
2,4-Dinitrotoluene	07/19/12	N.D.	ug/kg	67	170
Dibenzofuran	07/19/12	N.D.	ug/kg	17	33
Diethylphthalate	07/19/12	N.D.	ug/kg	67	170
Fluorene	07/19/12	N.D.	ug/kg	3	17
4-Chlorophenyl-phenylether	07/19/12	N.D.	ug/kg	17	33
4-Nitroaniline	07/19/12	N.D.	ug/kg	67	170
4,6-Dinitro-2-methylphenol	07/19/12	N.D.	ug/kg	170	500
N-Nitrosodiphenylamine	07/19/12	N.D.	ug/kg	17	33
4-Bromophenyl-phenylether	07/19/12	N.D.	ug/kg	17	33
Hexachlorobenzene	07/19/12	N.D.	ug/kg	3	17

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Quality Control Summary
Method Blank
GC/MS Semivolatiles
SDG: ASX73
Matrix: SOLID

Fraction: Semivolatiles by GC/MS

12199SLH026 / SBLKLH199 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Pentachlorophenol	07/19/12	N.D.	ug/kg	33	170
Phenanthrene	07/19/12	N.D.	ug/kg	3	17
Anthracene	07/19/12	N.D.	ug/kg	3	17
Carbazole	07/19/12	N.D.	ug/kg	17	33
Di-n-butylphthalate	07/19/12	N.D.	ug/kg	67	170
Fluoranthene	07/19/12	N.D.	ug/kg	3	17
Pyrene	07/19/12	N.D.	ug/kg	3	17
Butylbenzylphthalate	07/19/12	N.D.	ug/kg	67	170
bis(2-Ethylhexyl)phthalate	07/19/12	N.D.	ug/kg	67	170
3,3'-Dichlorobenzidine	07/19/12	N.D.	ug/kg	100	330
Benzo(a)anthracene	07/19/12	N.D.	ug/kg	3	17
Chrysene	07/19/12	N.D.	ug/kg	3	17
Di-n-octylphthalate	07/19/12	N.D.	ug/kg	67	170
Benzo(b)fluoranthene	07/19/12	N.D.	ug/kg	3	17
Benzo(k)fluoranthene	07/19/12	N.D.	ug/kg	3	17
Benzo(a)pyrene	07/19/12	N.D.	ug/kg	3	17
Indeno(1,2,3-cd)pyrene	07/19/12	N.D.	ug/kg	3	17
Dibenz(a,h)anthracene	07/19/12	N.D.	ug/kg	3	17
Benzo(g,h,i)perylene	07/19/12	N.D.	ug/kg	3	17

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Quality Control Summary
Method Blank
GC/MS Semivolatiles
SDG: ASX73
Matrix: LIQUID

Fraction: Semivolatiles by GC/MS

12200WAC026 / SBLKWC200 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Phenol	07/19/12	N.D.	ug/l	0.5	1
bis(2-Chloroethyl)ether	07/19/12	N.D.	ug/l	0.5	1
2-Chlorophenol	07/19/12	N.D.	ug/l	0.5	1
1,3-Dichlorobenzene	07/19/12	N.D.	ug/l	0.5	1
1,4-Dichlorobenzene	07/19/12	N.D.	ug/l	0.5	1
1,2-Dichlorobenzene	07/19/12	N.D.	ug/l	0.5	1
2-Methylphenol	07/19/12	N.D.	ug/l	0.5	1
2,2'-oxybis(1-Chloropropane)	07/19/12	N.D.	ug/l	0.5	1
4-Methylphenol	07/19/12	N.D.	ug/l	0.5	1
N-Nitroso-di-n-propylamine	07/19/12	N.D.	ug/l	0.5	1
Hexachloroethane	07/19/12	N.D.	ug/l	1	5
Nitrobenzene	07/19/12	N.D.	ug/l	0.5	1
Isophorone	07/19/12	N.D.	ug/l	0.5	1
2-Nitrophenol	07/19/12	N.D.	ug/l	0.5	1
2,4-Dimethylphenol	07/19/12	N.D.	ug/l	0.5	1
bis(2-Chloroethoxy)methane	07/19/12	N.D.	ug/l	0.5	1
2,4-Dichlorophenol	07/19/12	N.D.	ug/l	0.5	1
1,2,4-Trichlorobenzene	07/19/12	N.D.	ug/l	0.5	1
Naphthalene	07/19/12	N.D.	ug/l	0.1	0.5
4-Chloroaniline	07/19/12	N.D.	ug/l	0.5	1
Hexachlorobutadiene	07/19/12	N.D.	ug/l	0.5	1
4-Chloro-3-methylphenol	07/19/12	N.D.	ug/l	0.5	1
2-Methylnaphthalene	07/19/12	N.D.	ug/l	0.1	0.5
Hexachlorocyclopentadiene	07/19/12	N.D.	ug/l	5	15
2,4,6-Trichlorophenol	07/19/12	N.D.	ug/l	0.5	1
2,4,5-Trichlorophenol	07/19/12	N.D.	ug/l	0.5	1
2-Chloronaphthalene	07/19/12	N.D.	ug/l	0.4	1
2-Nitroaniline	07/19/12	N.D.	ug/l	0.5	1
Dimethylphthalate	07/19/12	N.D.	ug/l	2	5
2,6-Dinitrotoluene	07/19/12	N.D.	ug/l	0.5	1
Acenaphthylene	07/19/12	N.D.	ug/l	0.1	0.5
3-Nitroaniline	07/19/12	N.D.	ug/l	0.5	1
Acenaphthene	07/19/12	N.D.	ug/l	0.1	0.5
2,4-Dinitrophenol	07/19/12	N.D.	ug/l	10	30
4-Nitrophenol	07/19/12	N.D.	ug/l	10	30
2,4-Dinitrotoluene	07/19/12	N.D.	ug/l	1	5
Dibenzofuran	07/19/12	N.D.	ug/l	0.5	1
Diethylphthalate	07/19/12	N.D.	ug/l	2	5
Fluorene	07/19/12	N.D.	ug/l	0.1	0.5
4-Chlorophenyl-phenylether	07/19/12	N.D.	ug/l	0.5	1
4-Nitroaniline	07/19/12	N.D.	ug/l	0.5	1
4,6-Dinitro-2-methylphenol	07/19/12	N.D.	ug/l	5	15
N-Nitrosodiphenylamine	07/19/12	N.D.	ug/l	0.5	1
4-Bromophenyl-phenylether	07/19/12	N.D.	ug/l	0.5	1
Hexachlorobenzene	07/19/12	N.D.	ug/l	0.1	0.5

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Quality Control Summary
Method Blank
GC/MS Semivolatiles
SDG: ASX73
Matrix: LIQUID

Fraction: Semivolatiles by GC/MS

12200WAC026 / SBLKWC200 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Pentachlorophenol	07/19/12	N.D.	ug/l	1	5
Phenanthrene	07/19/12	N.D.	ug/l	0.1	0.5
Anthracene	07/19/12	N.D.	ug/l	0.1	0.5
Carbazole	07/19/12	N.D.	ug/l	0.5	1
Di-n-butylphthalate	07/19/12	N.D.	ug/l	2	5
Fluoranthene	07/19/12	N.D.	ug/l	0.1	0.5
Pyrene	07/19/12	N.D.	ug/l	0.1	0.5
Butylbenzylphthalate	07/19/12	N.D.	ug/l	2	5
bis(2-Ethylhexyl)phthalate	07/19/12	N.D.	ug/l	2	5
3,3'-Dichlorobenzidine	07/19/12	N.D.	ug/l	2	5
Benzo(a)anthracene	07/19/12	N.D.	ug/l	0.1	0.5
Chrysene	07/19/12	N.D.	ug/l	0.1	0.5
Di-n-octylphthalate	07/19/12	N.D.	ug/l	2	5
Benzo(b)fluoranthene	07/19/12	N.D.	ug/l	0.1	0.5
Benzo(k)fluoranthene	07/19/12	N.D.	ug/l	0.1	0.5
Benzo(a)pyrene	07/19/12	N.D.	ug/l	0.1	0.5
Indeno(1,2,3-cd)pyrene	07/19/12	N.D.	ug/l	0.1	0.5
Dibenz(a,h)anthracene	07/19/12	N.D.	ug/l	0.1	0.5
Benzo(g,h,i)perylene	07/19/12	N.D.	ug/l	0.1	0.5

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Quality Control Summary
Surrogates
GC/MS Semivolatiles
SDG: ASX73
Matrix: SOLID

Fraction: Semivolatiles by GC/MS

12199SLH026	Phenol-d6		2-Fluorophenol		2,4,6-Tribromophenol		Nitrobenzene-d5		2-Fluorobiphenyl		Terphenyl-d14	
	Spike Added	6666.667 ug/kg	Spike Added	6666.667 ug/kg	Spike Added	6666.667 ug/kg	Spike Added	3333.333 ug/kg	Spike Added	3333.333 ug/kg	Spike Added	3333.333 ug/kg
Sample	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits
SBLKLH199	88	42 - 130	90	48 - 136	103	28 - 139	87	45 - 123	87	56 - 121	101	36 - 135
199LHLCS	91	42 - 130	94	48 - 136	98	28 - 139	89	45 - 123	91	56 - 121	99	36 - 135
6721497 MS	80	42 - 130	82	48 - 136	79	28 - 139	80	45 - 123	87	56 - 121	89	36 - 135
6721497 MSD	80	42 - 130	83	48 - 136	86	28 - 139	81	45 - 123	86	56 - 121	91	36 - 135
6721497	76	42 - 130	79	48 - 136	80	28 - 139	76	45 - 123	83	56 - 121	85	36 - 135
6721503	75	42 - 130	76	48 - 136	75	28 - 139	77	45 - 123	80	56 - 121	87	36 - 135

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Quality Control Summary
Surrogates
GC/MS Semivolatiles
SDG: ASX73
Matrix: LIQUID

Fraction: Semivolatiles by GC/MS

12200WAC026	2-Fluorophenol		Phenol-d6		2,4,6-Tribromophenol		Nitrobenzene-d5		2-Fluorobiphenyl		Terphenyl-d14	
	Spike Added	200 ug/l	Spike Added	200 ug/l	Spike Added	200 ug/l	Spike Added	100 ug/l	Spike Added	100 ug/l	Spike Added	100 ug/l
Sample	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits
SBLKWC200	50	10 - 98	32	10 - 74	100	22 - 150	81	52 - 120	80	63 - 114	94	34 - 118
200WCLCS	55	10 - 98	36	10 - 74	98	22 - 150	82	52 - 120	83	63 - 114	94	34 - 118
200WCLCSD	54	10 - 98	35	10 - 74	101	22 - 150	85	52 - 120	86	63 - 114	95	34 - 118
6721504	50	10 - 98	31	10 - 74	102	22 - 150	85	52 - 120	85	63 - 114	97	34 - 118

ASX73 0528

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Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: ASX73
Matrix: SOLID

GC/MS Semivolatiles
Fraction: Semivolatiles by GC/MS

UNSPK: 6721497 MS: 6721497 MSD: 6721497 **Analyte**	Batch: **12199SLH026** (Sample number(s): 6721497, 6721503)								
	Spike Added ug/kg	**Unspiked Conc ug/kg**	**MS Conc ug/kg**	**MSD Conc ug/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Phenol	1639.34	N.D.	1285.88	1339.78	78	82	39-151	4	30
bis(2-Chloroethyl)ether	1639.34	N.D.	1314.39	1334.96	80	81	45-139	2	30
2-Chlorophenol	1639.34	N.D.	1307.87	1325.4	80	81	54-139	1	30
1,3-Dichlorobenzene	1639.34	N.D.	1200.46	1264.5	73	77	32-134	5	30
1,4-Dichlorobenzene	1639.34	N.D.	1217.83	1279.68	74	78	32-134	5	30
1,2-Dichlorobenzene	1639.34	N.D.	1238.68	1303.75	76	80	41-132	5	30
2-Methylphenol	1639.34	N.D.	1308.16	1334.13	80	81	47-143	2	30
4-Methylphenol	1639.34	N.D.	1367.25	1409.05	83	86	36-149	3	30
N-Nitroso-di-n-propylamine	1639.34	N.D.	1293.24	1325.43	79	81	46-128	2	30
Hexachloroethane	1639.34	N.D.	1158.17	1200.15	71	73	24-138	4	30
Nitrobenzene	1639.34	N.D.	1343.17	1373.71	82	84	51-130	2	30
Isophorone	1639.34	N.D.	1309.03	1333.	80	81	54-122	2	30
2-Nitrophenol	1639.34	N.D.	1250.67	1334.22	76	81	39-142	6	30
2,4-Dimethylphenol	1639.34	N.D.	1281.89	1317.65	78	80	49-134	3	30
2,2'-oxybis(1-Chloropropane)	1639.34	N.D.	1231.05	1255.48	75	77	38-134	2	30
bis(2-Chloroethoxy)methane	1639.34	N.D.	1305.17	1312.72	80	80	49-125	1	30
2,4-Dichlorophenol	1639.34	N.D.	1325.34	1334.	81	81	54-135	1	30
1,2,4-Trichlorobenzene	1639.34	N.D.	1332.07	1349.17	81	82	31-139	1	30
Naphthalene	1639.34	86.6	1373.65	1387.12	79	79	35-141	1	30
4-Chloroaniline	1639.34	N.D.	1193.34	1229.88	73	75	11-114	3	30
Hexachlorobutadiene	1639.34	N.D.	1297.63	1348.95	79	82	33-133	4	30
4-Chloro-3-methylphenol	1639.34	N.D.	1316.56	1369.53	80	84	50-137	4	30
2-Methylnaphthalene	1639.34	123.41	1512.69	1572.16	85	88	45-134	4	30
Hexachlorocyclopentadiene	3278.69	N.D.	885.62	853.72	27	26	10-153	4	30
2,4,6-Trichlorophenol	1639.34	N.D.	1298.33	1341.29	79	82	41-142	3	30
2,4,5-Trichlorophenol	1639.34	N.D.	1238.99	1314.32	76	80	41-141	6	30
2-Chloronaphthalene	1639.34	N.D.	1365.19	1383.44	83	84	22-131	1	30
2-Nitroaniline	1639.34	N.D.	1388.27	1442.12	85	88	46-146	4	30
Dimethylphthalate	1639.34	N.D.	1468.45	1469.	90	90	26-141	0	30
2,6-Dinitrotoluene	1639.34	N.D.	1394.94	1429.56	85	87	44-140	2	30
Acenaphthylene	1639.34	37.81	1465.	1516.28	87	90	47-137	3	30
3-Nitroaniline	1639.34	N.D.	1322.4	1385.09	81	84	15-153	5	30
Acenaphthene	1639.34	N.D.	1316.49	1364.38	80	83	41-135	4	30
2,4-Dinitrophenol	3278.69	N.D.	N.D.	N.D.	0 *	0 *	20-143	0	30
4-Nitrophenol	1639.34	N.D.	1181.95	1173.16	72	72	25-142	1	30
2,4-Dinitrotoluene	1639.34	N.D.	1379.75	1394.23	84	85	39-144	1	30
Dibenzofuran	1639.34	N.D.	1402.73	1442.6	86	88	38-148	3	30
Diethylphthalate	1639.34	N.D.	1437.08	1440.38	88	88	53-132	0	30
Fluorene	1639.34	N.D.	1396.08	1438.49	85	88	44-137	3	30
4-Chlorophenyl-phenylether	1639.34	N.D.	1413.05	1439.62	86	88	42-130	2	30
4-Nitroaniline	1639.34	N.D.	1321.32	1376.2	81	84	17-142	4	30
4,6-Dinitro-2-methylphenol	1639.34	N.D.	N.D.	N.D.	0 *	0 *	10-148	0	30

Results are being reported on an as received basis.

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Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: ASX73
Matrix: SOLID

GC/MS Semivolatiles
Fraction: Semivolatiles by GC/MS

UNSPK: 6721497 MS: 6721497 MSD: 6721497 **Analyte**	Batch: **12199SLH026** (Sample number(s): 6721497, 6721503)								
	Spike Added ug/kg	**Unspiked Conc ug/kg**	**MS Conc ug/kg**	**MSD Conc ug/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
N-Nitrosodiphenylamine	1639.34	N.D.	1481.47	1522.9	90	93	42-144	3	30
4-Bromophenyl-phenylether	1639.34	N.D.	1404.06	1400.78	86	85	46-131	0	30
Hexachlorobenzene	1639.34	N.D.	1127.22	1145.5	69	70	38-143	2	30
Pentachlorophenol	1639.34	N.D.	964.65	974.57	59	59	23-145	1	30
Phenanthrene	1639.34	134.55	1456.9	1453.07	81	80	34-147	0	30
Anthracene	1639.34	49.86	1374.74	1424.62	81	84	40-147	4	30
Carbazole	1639.34	N.D.	1375.76	1431.62	84	87	36-148	4	30
Di-n-butylphthalate	1639.34	N.D.	1374.99	1401.59	84	85	44-143	2	30
Fluoranthene	1639.34	151.62	1422.2	1493.92	78	82	30-151	5	30
Pyrene	1639.34	149.67	1479.48	1537.62	81	85	29-148	4	30
Butylbenzylphthalate	1639.34	N.D.	1470.39	1469.34	90	90	42-146	0	30
bis(2-Ethylhexyl)phthalate	1639.34	N.D.	1472.88	1487.14	90	91	38-151	1	30
3,3'-Dichlorobenzidine	1639.34	N.D.	1094.29	1142.65	67	70	10-143	4	30
Benzo(a)anthracene	1639.34	98.82	1334.66	1388.25	75	79	32-150	4	30
Chrysene	1639.34	142.6	1318.24	1370.99	72	75	30-139	4	30
Di-n-octylphthalate	1639.34	N.D.	1459.24	1465.32	89	89	43-149	0	30
Benzo(b)fluoranthene	1639.34	227.52	1322.35	1508.48	67	78	29-150	13	30
Benzo(k)fluoranthene	1639.34	70.65	1368.36	1279.26	79	74	35-148	7	30
Benzo(a)pyrene	1639.34	111.88	1313.64	1356.76	73	76	30-150	3	30
Indeno(1,2,3-cd)pyrene	1639.34	107.91	1334.91	1426.51	75	80	31-154	7	30
Dibenz(a,h)anthracene	1639.34	28.94	1319.35	1398.66	79	84	37-151	6	30
Benzo(g,h,i)perylene	1639.34	123.17	1270.87	1420.53	70	79	31-152	11	30

Results are being reported on an as received basis.

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

SDG: ASX73
Matrix: SOLID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

LCS: 199LHLCS	Batch: **12199SLH026** (Sample number(s): 6721497, 6721503)							
Analyte	**Spike Added ug/kg**	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Phenol	1666.67	1525.81		92		69-126		
bis(2-Chloroethyl)ether	1666.67	1526.68		92		77-115		
2-Chlorophenol	1666.67	1611.64		97		83-119		
1,3-Dichlorobenzene	1666.67	1471.54		88		79-113		
1,4-Dichlorobenzene	1666.67	1471.5		88		79-112		
1,2-Dichlorobenzene	1666.67	1496.81		90		79-112		
2-Methylphenol	1666.67	1600.02		96		75-126		
4-Methylphenol	1666.67	1623.6		97		74-116		
N-Nitroso-di-n-propylamine	1666.67	1476.38		89		70-113		
Hexachloroethane	1666.67	1451.85		87		76-109		
Nitrobenzene	1666.67	1508.11		90		78-122		
Isophorone	1666.67	1506.81		90		72-107		
2-Nitrophenol	1666.67	1568.62		94		81-114		
2,4-Dimethylphenol	1666.67	1626.88		98		83-120		
2,2'-oxybis(1-Chloropropane)	1666.67	1391.54		83		59-127		
bis(2-Chloroethoxy)methane	1666.67	1469.17		88		75-121		
2,4-Dichlorophenol	1666.67	1618.62		97		81-123		
1,2,4-Trichlorobenzene	1666.67	1495.57		90		81-119		
Naphthalene	1666.67	1481.77		89		77-115		
4-Chloroaniline	1666.67	944.87		57		10-97		
Hexachlorobutadiene	1666.67	1484.66		89		70-112		
4-Chloro-3-methylphenol	1666.67	1633.43		98		74-119		
2-Methylnaphthalene	1666.67	1639.94		98		79-110		
Hexachlorocyclopentadiene	3333.33	3395.55		102		64-127		
2,4,6-Trichlorophenol	1666.67	1608.43		97		81-123		
2,4,5-Trichlorophenol	1666.67	1565.91		94		84-109		
2-Chloronaphthalene	1666.67	1568.42		94		50-117		
2-Nitroaniline	1666.67	1661.56		100		83-118		
Dimethylphthalate	1666.67	1565.52		94		80-120		
2,6-Dinitrotoluene	1666.67	1662.72		100		79-115		
Acenaphthylene	1666.67	1640.79		98		68-120		
3-Nitroaniline	1666.67	1639.72		98		66-114		
Acenaphthene	1666.67	1562.66		94		83-111		
2,4-Dinitrophenol	3333.33	3099.88		93		28-131		
4-Nitrophenol	1666.67	1494.86		90		57-131		
2,4-Dinitrotoluene	1666.67	1633.73		98		80-116		
Dibenzofuran	1666.67	1566.46		94		78-116		
Diethylphthalate	1666.67	1578.23		95		82-113		
Fluorene	1666.67	1596.28		96		81-117		
4-Chlorophenyl-phenylether	1666.67	1550.54		93		79-110		
4-Nitroaniline	1666.67	1325.29		80		52-92		
4,6-Dinitro-2-methylphenol	1666.67	1548.5		93		60-113		

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

SDG: ASX73
Matrix: SOLID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

LCS: 199LHLCS	Batch: **12199SLH026** (Sample number(s): 6721497, 6721503)							
Analyte	**Spike Added ug/kg**	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
N-Nitrosodiphenylamine	1666.67	1610.59		97		79-124		
4-Bromophenyl-phenylether	1666.67	1560.58		94		79-117		
Hexachlorobenzene	1666.67	1563.16		94		79-115		
Pentachlorophenol	1666.67	1673.32		100		50-133		
Phenanthrene	1666.67	1543.13		93		77-119		
Anthracene	1666.67	1592.39		96		83-111		
Carbazole	1666.67	1620.08		97		83-111		
Di-n-butylphthalate	1666.67	1556.61		93		79-112		
Fluoranthene	1666.67	1669.53		100		80-113		
Pyrene	1666.67	1552.84		93		80-121		
Butylbenzylphthalate	1666.67	1603.31		96		77-125		
bis(2-Ethylhexyl)phthalate	1666.67	1595.64		96		75-124		
3,3'-Dichlorobenzidine	1666.67	1188.69		71		17-116		
Benzo(a)anthracene	1666.67	1638.94		98		73-123		
Chrysene	1666.67	1510.69		91		73-119		
Di-n-octylphthalate	1666.67	1561.61		94		65-141		
Benzo(b)fluoranthene	1666.67	1530.7		92		61-133		
Benzo(k)fluoranthene	1666.67	1556.69		93		71-135		
Benzo(a)pyrene	1666.67	1660.39		100		63-138		
Indeno(1,2,3-cd)pyrene	1666.67	1742.01		105		64-128		
Dibenz(a,h)anthracene	1666.67	1756.22		105		67-129		
Benzo(g,h,i)perylene	1666.67	1709.48		103		63-130		

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

SDG: ASX73
Matrix: LIQUID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

LCS: 200WCLCS LCSD: 200WCLCSD	Batch: **12200WAC026** (Sample number(s): 6721504)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Phenol	50	21.28	20.85	43	42	21-67	2	30
bis(2-Chloroethyl)ether	50	41.9	43.71	84	87	77-108	4	30
2-Chlorophenol	50	42.91	43.66	86	87	71-114	2	30
1,3-Dichlorobenzene	50	38.02	40.51	76	81	61-111	6	30
1,4-Dichlorobenzene	50	38.5	40.82	77	82	53-119	6	30
1,2-Dichlorobenzene	50	39.62	42.24	79	84	55-118	6	30
2-Methylphenol	50	40.18	40.34	80	81	58-110	0	30
2,2'-oxybis(1-Chloropropane)	50	38.66	39.76	77	80	65-113	3	30
4-Methylphenol	50	39.01	38.54	78	77	49-108	1	30
N-Nitroso-di-n-propylamine	50	41.61	42.41	83	85	69-110	2	30
Hexachloroethane	50	36.57	38.83	73	78	52-113	6	30
Nitrobenzene	50	43.3	44.99	87	90	75-109	4	30
Isophorone	50	43.79	44.82	88	90	74-117	2	30
2-Nitrophenol	50	45.85	47.5	92	95	76-118	4	30
2,4-Dimethylphenol	50	44.8	45.65	90	91	72-110	2	30
bis(2-Chloroethoxy)methane	50	40.93	42.09	82	84	74-124	3	30
2,4-Dichlorophenol	50	45.86	46.93	92	94	77-117	2	30
1,2,4-Trichlorobenzene	50	40.52	42.91	81	86	71-112	6	30
Naphthalene	50	41.07	42.65	82	85	70-111	4	30
4-Chloroaniline	50	43.87	45.32	88	91	43-116	3	30
Hexachlorobutadiene	50	39.5	42.12	79	84	57-124	6	30
4-Chloro-3-methylphenol	50	47.54	47.76	95	96	70-123	0	30
2-Methylnaphthalene	50	46.6	48.72	93	97	69-108	4	30
Hexachlorocyclopentadiene	100	85	89.37	85	89	36-118	5	30
2,4,6-Trichlorophenol	50	48.98	49.82	98	100	76-120	2	30
2,4,5-Trichlorophenol	50	46.61	48.04	93	96	79-107	3	30
2-Chloronaphthalene	50	40.71	43.88	81	88	43-132	7	30
2-Nitroaniline	50	50.03	52.1	100	104	75-120	4	30
Dimethylphthalate	50	44.61	46.24	89	92	29-138	4	30
2,6-Dinitrotoluene	50	49.29	51.52	99	103	76-118	4	30
Acenaphthylene	50	47.67	50.07	95	100	80-122	5	30
3-Nitroaniline	50	51.78	53.45	104	107	74-113	3	30
Acenaphthene	50	45.03	47.08	90	94	75-114	4	30
2,4-Dinitrophenol	100	107.02	111.34	107	111	52-131	4	30
4-Nitrophenol	50	21.3	21.58	43	43	16-78	1	30
2,4-Dinitrotoluene	50	49.24	51.56	98	103	76-119	5	30
Dibenzofuran	50	45.09	47.49	90	95	75-117	5	30
Diethylphthalate	50	46.29	47.72	93	95	66-116	3	30
Fluorene	50	47.31	49.66	95	99	76-116	5	30
4-Chlorophenyl-phenylether	50	45.39	46.88	91	94	77-114	3	30
4-Nitroaniline	50	46.07	48.31	92	97	59-100	5	30
4,6-Dinitro-2-methylphenol	50	46.96	48.35	94	97	65-126	3	30

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

SDG: ASX73
Matrix: LIQUID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

LCS: 200WCLCS LCSD: 200WCLCSD	Batch: **12200WAC026** (Sample number(s): 6721504)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
N-Nitrosodiphenylamine	50	45.02	45.7	90	91	67-136	2	30
4-Bromophenyl-phenylether	50	43.19	43.81	86	88	75-115	1	30
Hexachlorobenzene	50	43.08	44.16	86	88	75-119	2	30
Pentachlorophenol	50	51.48	51.71	103	103	53-110	0	30
Phenanthrene	50	45.18	46.01	90	92	76-113	2	30
Anthracene	50	46.53	47.56	93	95	76-115	2	30
Carbazole	50	47.93	49.14	96	98	75-120	2	30
Di-n-butylphthalate	50	45.31	45.54	91	91	76-115	1	30
Fluoranthene	50	50.78	52	102	104	76-119	2	30
Pyrene	50	45.56	47.24	91	94	75-119	4	30
Butylbenzylphthalate	50	48.19	49.31	96	99	77-115	2	30
bis(2-Ethylhexyl)phthalate	50	49.14	50.76	98	102	78-117	3	30
3,3'-Dichlorobenzidine	50	45.74	48.45	91	97	37-117	6	30
Benzo(a)anthracene	50	50.71	53.32	101	107	75-116	5	30
Chrysene	50	45.82	48.77	92	98	76-116	6	30
Di-n-octylphthalate	50	46.14	46.08	92	92	68-128	0	30
Benzo(b)fluoranthene	50	45.22	44.08	90	88	66-125	3	30
Benzo(k)fluoranthene	50	46.31	48.64	93	97	66-131	5	30
Benzo(a)pyrene	50	48.04	49.3	96	99	64-126	3	30
Indeno(1,2,3-cd)pyrene	50	50.69	52.15	101	104	69-121	3	30
Dibenz(a,h)anthracene	50	51.76	52.78	104	106	67-131	2	30
Benzo(g,h,i)perylene	50	50.1	51.6	100	103	66-132	3	30

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

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

Lab File ID: hg0580z.d DFTPP Injection Date: 07/17/12

Instrument ID: HP18831 DFTPP Injection Time: 18:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.78 (1.48)1
69	Mass 69 relative abundance	53.2
70	Less than 2.0% of mass 69	0.29 (0.54)1
127	40.0 - 60.0% of mass 198	50.3
197	Less than 1.0% of mass 198	0.83
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.75
275	10.0 - 30.0% of mass 198	21.4
365	Greater than 1.00% of mass 198	2.27
441	Present, and less than mass 443	8.38
442	Greater than 40.0 % of mass 198	59.8
443	17.0 - 23.0% of mass 442	11.5 (19.3)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1982 - SSTD30	hg0581a.d	07/17/12	18:44
02	STD1982 - SSTD.5	hg0582.d	07/17/12	19:14
03	STD1982 - SSTD120	hg0583.d	07/17/12	19:37
04	STD1982 - SSTD80	hg0584.d	07/17/12	20:00
05	STD1982 - SSTD50	hg0585.d	07/17/12	20:23
06	STD1982 - SSTD15	hg0586.d	07/17/12	20:46
07	STD1982 - SSTD5	hg0587.d	07/17/12	21:09
08	STD1982 - SSTD1	hg0588.d	07/17/12	21:32
09	MDLSTD1982 - SSTD0.5	hg0589.d	07/17/12	21:55
10	MDLSTD1982 - SSTD0.1	hg0590.d	07/17/12	22:18
11	8270ICV1092 - SSTD050	hg0591.d	07/17/12	22:40
12	BASICV0662 - SSTD050	hg0592.d	07/17/12	23:20
13	SBLKWC199	hg0593.d	07/17/12	23:42
14	199WCLCS	hg0594.d	07/18/12	00:05
15	6715839	hg0595.d	07/18/12	00:28
16	6715839MS	hg0596.d	07/18/12	00:50
17	6715839MSD	hg0597.d	07/18/12	01:13
18	6716332	hg0598.d	07/18/12	01:35

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

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

Lab File ID: hg0580z.d DFTPP Injection Date: 07/17/12

Instrument ID: HP18831 DFTPP Injection Time: 18:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.78 (1.48)1
69	Mass 69 relative abundance	53.2
70	Less than 2.0% of mass 69	0.29 (0.54)1
127	40.0 - 60.0% of mass 198	50.3
197	Less than 1.0% of mass 198	0.83
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.75
275	10.0 - 30.0% of mass 198	21.4
365	Greater than 1.00% of mass 198	2.27
441	Present, and less than mass 443	8.38
442	Greater than 40.0 % of mass 198	59.8
443	17.0 - 23.0% of mass 442	11.5 (19.3)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	6716332	hg0599.d	07/18/12	01:58
20	6717669	hg0600.d	07/18/12	02:20
21	6717669	hg0601.d	07/18/12	02:43
22	6720731	hg0602.d	07/18/12	03:05
23	6721059	hg0603.d	07/18/12	03:28

FORM V SV

ASX73 0536

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

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

Lab File ID: hg0740.d DFTPP Injection Date: 07/18/12

Instrument ID: HP18831 DFTPP Injection Time: 18:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.9
68	Less than 2.0% of mass 69	0.63 (1.22)1
69	Mass 69 relative abundance	51.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.3
197	Less than 1.0% of mass 198	0.62
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.69
275	10.0 - 30.0% of mass 198	21.4
365	Greater than 1.00% of mass 198	2.42
441	Present, and less than mass 443	8.52
442	Greater than 40.0 % of mass 198	57.5
443	17.0 - 23.0% of mass 442	11.2 (19.6)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1982 - SSTD30	hg0741.d	07/18/12	18:41
02	PDA1842 - SSTD50	hg0742.d	07/18/12	19:08
03	PDA1842 - SSTD120	hg0743.d	07/18/12	19:30
04	PDA1842 - SSTD80	hg0744.d	07/18/12	19:53
05	PDA1842 - SSTD30	hg0745.d	07/18/12	20:15
06	PDA1842 - SSTD15	hg0746.d	07/18/12	20:38
07	PDA1842 - SSTD5	hg0747.d	07/18/12	21:01
08	PDAMDL1842 - SSTD001	hg0748.d	07/18/12	21:23
09	SBLKLC196	hg0749.d	07/18/12	21:46
10	196LCLCS	hg0750.d	07/18/12	22:08
11	SBLKWF198	hg0755.d	07/18/12	22:30
12	198WFLCS	hg0756.d	07/18/12	22:53
13	198WFLCSD	hg0757.d	07/18/12	23:15
14	SBLKWB200	hg0759.d	07/18/12	23:38
15	200WBLCS	hg0760.d	07/19/12	00:00
16	200WBLCSD	hg0761.d	07/19/12	00:23
17	SBLKLH199	hg0763.d	07/19/12	00:45
18	199LHLCS	hg0764.d	07/19/12	01:07

FORM V SV

ASX73 0537

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

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

Lab File ID: hg0740.d DFTPP Injection Date: 07/18/12

Instrument ID: HP18831 DFTPP Injection Time: 18:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.9
68	Less than 2.0% of mass 69	0.63 (1.22)1
69	Mass 69 relative abundance	51.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.3
197	Less than 1.0% of mass 198	0.62
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.69
275	10.0 - 30.0% of mass 198	21.4
365	Greater than 1.00% of mass 198	2.42
441	Present, and less than mass 443	8.52
442	Greater than 40.0 % of mass 198	57.5
443	17.0 - 23.0% of mass 442	11.2 (19.6)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	6718776	hg0758.d	07/19/12	01:30
20	6719598	hg0762.d	07/19/12	01:52
21	6716262	hg0751.d	07/19/12	02:15
22	6716262MS	hg0752.d	07/19/12	02:37
23	6716262MSD	hg0753.d	07/19/12	02:59
24	6716263	hg0754.d	07/19/12	03:22
25	6721497	hg0765.d	07/19/12	03:44
26	6721497MS	hg0766.d	07/19/12	04:07
27	6721497MSD	hg0767.d	07/19/12	04:29
28	6721503	hg0768.d	07/19/12	04:52
29	STD1982	hg0769.d	07/19/12	05:14

FORM V SV

ASX73 0538

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

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

Lab File ID: hg0810.d DFTPP Injection Date: 07/19/12

Instrument ID: HP18831 DFTPP Injection Time: 06:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.2
68	Less than 2.0% of mass 69	0.84 (1.55)1
69	Mass 69 relative abundance	54.2
70	Less than 2.0% of mass 69	0.31 (0.58)1
127	40.0 - 60.0% of mass 198	49.5
197	Less than 1.0% of mass 198	0.61
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.01
275	10.0 - 30.0% of mass 198	20.9
365	Greater than 1.00% of mass 198	2.21
441	Present, and less than mass 443	6.99
442	Greater than 40.0 % of mass 198	49.9
443	17.0 - 23.0% of mass 442	9.95 (20.0)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD1982 - SSTD30	hg0811.d	07/19/12	06:46
02	SBLKWC200	hg0812.d	07/19/12	07:10
03	200WCLCS	hg0813.d	07/19/12	07:33
04	200WCLCSD	hg0814.d	07/19/12	07:55
05	SBLKWF200	hg0835.d	07/19/12	08:18
06	200WFLCS	hg0836.d	07/19/12	08:40
07	6720421	hg0815.d	07/19/12	09:03
08	6720422	hg0816.d	07/19/12	09:25
09	6720423	hg0817.d	07/19/12	09:48
10	6720424	hg0818.d	07/19/12	10:10
11	6720425	hg0819.d	07/19/12	10:33
12	6720426	hg0820.d	07/19/12	10:56
13	6720427	hg0821.d	07/19/12	11:18
14	6720428	hg0822.d	07/19/12	11:41
15	6720430	hg0823.d	07/19/12	12:04
16	6720431	hg0824.d	07/19/12	12:27
17	6721504	hg0825.d	07/19/12	12:49
18	6722557	hg0826.d	07/19/12	13:12

FORM V SV

ASX73 0539

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

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

Lab File ID: hg0810.d DFTPP Injection Date: 07/19/12

Instrument ID: HP18831 DFTPP Injection Time: 06:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.2
68	Less than 2.0% of mass 69	0.84 (1.55)1
69	Mass 69 relative abundance	54.2
70	Less than 2.0% of mass 69	0.31 (0.58)1
127	40.0 - 60.0% of mass 198	49.5
197	Less than 1.0% of mass 198	0.61
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.01
275	10.0 - 30.0% of mass 198	20.9
365	Greater than 1.00% of mass 198	2.21
441	Present, and less than mass 443	6.99
442	Greater than 40.0 % of mass 198	49.9
443	17.0 - 23.0% of mass 442	9.95 (20.0)2

1-Value is % mass 69 2-Value is % mass of 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	6722951	hg0827.d	07/19/12	13:35
20	6722953	hg0828.d	07/19/12	13:58
21	6722955	hg0829.d	07/19/12	14:21
22	6722957	hg0830.d	07/19/12	14:43
23	6722959	hg0831.d	07/19/12	15:06
24	6722961	hg0832.d	07/19/12	15:29
25	6722963	hg0833.d	07/19/12	15:52
26	6722965	hg0834.d	07/19/12	16:15
27	6716334	hg0837.d	07/19/12	16:38
28	6716334MS	hg0838.d	07/19/12	17:01
29	6716334MSD	hg0839.d	07/19/12	17:23
30	STD1982	hg0811a.d	07/19/12	17:46

FORM V SV

ASX73 0548

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date(s): 07/17/12 07/17/12

Calibration Times: 18:44 21:32

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID:RRF0.5 = hg0582.d RRF1 = hg0588.d RRF5 = hg0587.d RRF15 = hg0586.d
RRF30 = hg0581a.d RRF50 = hg0585.d RRF80 = hg0584.d RRF120 = hg0583.d

COMPOUND	RRF0.5	RRF1	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	$\overline{RRF}$	% RSD	CAL. METHOD
1,4-Dioxane			0.842	0.735	0.744	0.801	0.771	0.777	0.779	5	AVG
N-Nitrosodimethylamine			1.258	1.196	1.198	1.356	1.359	1.322	1.281	6	AVG
Pyridine			2.039	1.943	2.010	2.171	2.380	2.276	2.137	8	AVG
2-Picoline			2.176	2.221	2.125	2.293	2.208	2.206	2.205	3	AVG
N-Nitrosomethylethylamine			0.988	0.999	0.979	1.055	1.028	1.018	1.011	3	AVG
Methyl methanesulfonate			1.153	1.153	1.110	1.189	1.145	1.172	1.154	2	AVG
N-Nitrosodiethylamine		0.878	0.950	0.986	0.947	1.026	0.982	0.983	0.965	5	AVG
Ethyl methanesulfonate		0.893	0.903	0.954	0.886	0.968	0.925	0.914	0.920	3	AVG
Benzaldehyde		1.556	1.756	1.639	1.481	1.679			1.622	7	AVG
Aniline		3.070	3.247	3.324	3.239	3.438	3.209	3.179	3.244	4	AVG
Phenol *		2.633	2.833	2.932	2.819	2.979	2.821	2.739	2.822	4	AVG *
bis(2-Chloroethyl)ether		2.064	2.037	2.134	2.050	2.227	2.118	2.072	2.100	3	AVG
2-Chlorophenol		1.433	1.558	1.607	1.533	1.668	1.595	1.547	1.563	5	AVG
1,3-Dichlorobenzene		1.585	1.607	1.583	1.542	1.649	1.558	1.514	1.577	3	AVG
1,4-Dichlorobenzene *		1.670	1.648	1.601	1.576	1.658	1.593	1.524	1.610	3	AVG *
Benzyl alcohol			1.451	1.423	1.352	1.335	1.307	1.268	1.356	5	AVG
1,2-Dichlorobenzene		1.503	1.540	1.522	1.483	1.557	1.482	1.403	1.498	3	AVG
2-Methylphenol		1.675	1.829	1.904	1.781	1.884	1.785	1.759	1.802	4	AVG
2,2'-oxybis(1-Chloropropane)		2.699	2.419	2.512	2.389	2.510	2.349	2.340	2.460	5	AVG
bis(2-Chloroisopropyl)ether		2.699	2.419	2.512	2.389	2.510	2.349	2.340	2.460	5	AVG
N-Nitrosopyrrolidine		0.864	0.999	1.047	0.977	1.034	0.995	0.941	0.979	6	AVG
Acetophenone		2.773	3.000	2.963	2.693	2.700	2.527	2.568	2.746	7	AVG
N-Nitroso-di-n-propylamine #		1.699	1.700	1.789	1.635	1.696	1.595	1.495	1.658	6	AVG #
N-Nitrosomorpholine			1.270	1.293	1.133	1.150	1.093	1.078	1.169	8	AVG
4-Methylphenol		1.882	1.919	2.074	1.859	2.110	1.980	1.844	1.952	5	AVG
o-Toluidine		2.822	3.047	3.185	2.872	2.975	2.765	2.633	2.900	6	AVG
Hexachloroethane			0.720	0.718	0.694	0.748	0.698	0.693	0.712	3	AVG
Nitrobenzene		0.545	0.564	0.574	0.567	0.591	0.584	0.587	0.573	3	AVG
N-Nitrosopiperidine		0.202	0.225	0.224	0.214	0.220	0.219	0.218	0.218	4	AVG
Isophorone		1.008	1.093	1.115	1.054	1.097	1.079	1.088	1.076	3	AVG
2-Nitrophenol *		0.178	0.197	0.206	0.204	0.214	0.210	0.208	0.203	6	AVG *
2,4-Dimethylphenol		0.448	0.485	0.498	0.476	0.484	0.476	0.466	0.476	3	AVG
O,O,O-triethylphosphorothioate			0.194	0.197	0.185	0.191	0.182	0.177	0.188	4	AVG
bis(2-Chloroethoxy)methane		0.623	0.640	0.631	0.627	0.648	0.588	0.778	0.648	9	AVG
Benzoic acid			0.367	0.387	0.337	0.365	0.369	0.378	0.367	5	AVG
2,4-Dichlorophenol *		0.298	0.309	0.321	0.303	0.312	0.302	0.293	0.305	3	AVG *
1,2,4-Trichlorobenzene			0.355	0.336	0.330	0.344	0.335	0.326	0.338	3	AVG
Naphthalene	1.149	1.211	1.195	1.159	1.116	1.127	1.094	1.066	1.139	4	AVG
4-Chloroaniline		0.468	0.494	0.497	0.460	0.455	0.433	0.433	0.463	6	AVG
2,6-Dichlorophenol		0.304	0.308	0.306	0.291	0.293	0.282	0.271	0.294	5	AVG
Hexachloropropene			0.175	0.190	0.198	0.212	0.208	0.206	0.198	7	AVG
Hexachlorobutadiene *		0.186	0.176	0.174	0.170	0.178	0.173	0.166	0.175	4	AVG *
Caprolactam			0.175	0.175	0.157	0.151	0.156	0.153	0.161	7	AVG
N-Nitrosodi-n-butylamine			0.497	0.507	0.464	0.371	0.361	0.360	0.427	16	1STDEG
4-Chloro-3-methylphenol *		0.389	0.431	0.449	0.411	0.420	0.418	0.412	0.418	4	AVG *
Safrole			0.301	0.306	0.289	0.293	0.284	0.274	0.291	4	AVG
2-Methylnaphthalene	0.708	0.690	0.721	0.734	0.691	0.692	0.679	0.652	0.696	4	AVG
1-Methylnaphthalene	0.691	0.691	0.717	0.715	0.673	0.676	0.654	0.629	0.681	4	AVG
Hexachlorocyclopentadiene #			0.190	0.222	0.254	0.276	0.270	0.266	0.247	14	AVG #
1,2,4,5-Tetrachlorobenzene		0.545	0.538	0.532	0.522	0.555	0.533	0.508	0.533	3	AVG
cis-Isosafrole			0.776	0.810	0.845	0.883	0.870	0.839	0.837	5	AVG
2,4,6-Trichlorophenol *		0.329	0.369	0.386	0.367	0.394	0.387	0.371	0.372	6	AVG *

7-18-2012

FORM VI SV-1

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date(s): 07/17/12 07/17/12

Calibration Times: 18:44 21:32

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID:RRF0.5 = hg0582.d RRF1 = hg0588.d RRF5 = hg0587.d RRF15 = hg0586.d
RRF30 = hg0581a.d RRF50 = hg0585.d RRF80 = hg0584.d RRF120 = hg0583.d

COMPOUND	RRF0.5	RRF1	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	$\overline{RRF}$	% RSD	CAL. METHOD	
2,4,5-Trichlorophenol		0.380	0.430	0.416	0.400	0.422	0.420	0.407	0.411	4	AVG	
trans-Isosafrole			0.575	0.585	0.571	0.602	0.585	0.566	0.581	2	AVG	
Isosafrole			0.512	0.521	0.508	0.535	0.521	0.504	0.517	2	AVG	
1,1'-Biphenyl		1.676	1.723	1.643	1.593	1.570	1.499	1.405	1.587	7	AVG	
2-Chloronaphthalene		1.115	1.414	1.210	1.052	1.190	1.068	1.022	1.153	12	AVG	
Diphenyl ether		0.919	0.859	0.852	0.812	0.857	0.826	0.789	0.845	5	AVG	
2-Nitroaniline		0.321	0.399	0.418	0.406	0.423	0.419	0.403	0.398	9	AVG	
1,4-Naphthoquinone			0.482	0.513	0.485	0.510	0.481	0.450	0.487	5	AVG	
1,4-Dinitrobenzene			0.188	0.218	0.214	0.230	0.228	0.226	0.217	7	AVG	
Dimethylphthalate			1.399	1.447	1.324	1.376	1.316	1.243	1.351	5	AVG	
1,3-Dinitrobenzene			0.239	0.265	0.246	0.264	0.264	0.255	0.255	4	AVG	
2,6-Dinitrotoluene		0.257	0.310	0.321	0.304	0.323	0.317	0.306	0.306	7	AVG	
Acenaphthylene	1.759	1.720	1.788	1.785	1.749	1.800	1.749	1.654	1.750	3	AVG	
3-Nitroaniline		0.291	0.349	0.376	0.349	0.368	0.362	0.348	0.349	8	AVG	
Acenaphthene	* 1.232	1.258	1.236	1.221	1.162	1.211	1.173	1.095	1.199	4	AVG	*
2,4-Dinitrophenol	#		0.140	0.185	0.171	0.201	0.208	0.212	0.186	15	AVG	#
Pentachlorobenzene		0.463	0.446	0.430	0.406	0.437	0.423	0.399	0.429	5	AVG	
4-Nitrophenol	#		0.220	0.235	0.215	0.259	0.262	0.258	0.242	9	AVG	#
Dibenzofuran		1.789	1.810	1.795	1.656	1.703	1.637	1.511	1.700	6	AVG	
2,4-Dinitrotoluene			0.396	0.422	0.384	0.397	0.392	0.370	0.393	4	AVG	
1-Naphthylamine			1.226	1.269	1.212	1.245	1.223	1.153	1.221	3	AVG	
2,3,4,6-Tetrachlorophenol		0.232	0.300	0.312	0.292	0.314	0.308	0.294	0.293	10	AVG	
2-Naphthylamine			1.230	1.278	1.200	1.238	1.187	1.101	1.206	5	AVG	
Diethylphthalate			1.448	1.494	1.347	1.396	1.368	1.332	1.398	4	AVG	
Thionazin			0.311	0.338	0.263	0.271	0.297	0.243	0.287	12	AVG	
Fluorene	1.402	1.411	1.478	1.471	1.334	1.343	1.271	1.162	1.359	8	AVG	
4-Chlorophenyl-phenylether		0.727	0.706	0.703	0.631	0.648	0.617	0.557	0.655	9	AVG	
5-Nitro-o-toluidine		0.333	0.406	0.431	0.384	0.397	0.393	0.383	0.390	8	AVG	
4-Nitroaniline		0.308	0.377	0.391	0.351	0.352	0.351	0.334	0.352	8	AVG	
4,6-Dinitro-2-methylphenol			0.114	0.136	0.139	0.157	0.157	0.158	0.143	12	AVG	
N-Nitrosodiphenylamine (1)	*	0.669	0.698	0.718	0.707	0.748	0.716	0.695	0.707	3	AVG	*
1,2-Diphenylhydrazine		1.157	1.199	1.253	1.239	1.295	1.253	1.224	1.231	4	AVG	
Tetraethyldithiopyrophosphate			0.160	0.181	0.173	0.178	0.173	0.170	0.173	4	AVG	
1,3,5-Trinitrobenzene			0.059	0.078	0.085	0.095	0.096	0.100	0.085	18	1STDEG	
Diallate (peak 1)			0.539	0.583	0.576	0.595	0.575	0.556	0.571	4	AVG	
Phorate		0.534	0.665	0.748	0.746	0.785	0.785	1.014	0.754	19	2NDDEG	
Phenacetin		0.407	0.480	0.509	0.503	0.527	0.523	0.535	0.498	9	AVG	
4-Bromophenyl-phenylether			0.201	0.200	0.194	0.208	0.204	0.202	0.201	2	AVG	
Diallate (peak 2)			0.323	0.343	0.351	0.365	0.359	0.357	0.350	4	AVG	
Hexachlorobenzene	0.204	0.199	0.200	0.197	0.186	0.201	0.196	0.197	0.198	3	AVG	
Dimethoate			0.391	0.425	0.413	0.420	0.395	0.381	0.404	4	AVG	
Diallate TRANS/CIS			0.485	0.523	0.520	0.538	0.521	0.506	0.515	4	AVG	
Atrazine	0.197	0.183	0.222	0.208	0.180	0.146			0.189	14	AVG	
Pentachlorophenol	*		0.115	0.120	0.124	0.134	0.132	0.136	0.127	7	AVG	*
Pentachloronitrobenzene			0.086	0.092	0.089	0.095	0.090	0.091	0.091	3	AVG	
4-Aminobiphenyl		0.688	0.743	0.761	0.696	0.653	0.579	0.536	0.665	12	AVG	
Pronamide		0.267	0.335	0.369	0.356	0.372	0.360	0.364	0.346	11	AVG	
Dinoseb			0.123	0.183	0.193	0.217	0.219	0.230	0.194	20	1STDEG	
Phenanthrene	1.169	1.171	1.174	1.161	1.115	1.170	1.141	1.119	1.152	2	AVG	
Anthracene	1.054	1.081	1.152	1.187	1.140	1.190	1.162	1.143	1.139	4	AVG	
Carbazole		1.033	1.101	1.111	1.077	1.107	1.093	1.078	1.086	2	AVG	
Methyl parathion			0.258	0.307	0.306	0.311	0.289	0.275	0.291	7	AVG	

(1) Cannot be separated from Diphenylamine

FORM VI SV-1

ASX73 0542

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date(s): 07/17/12 07/17/12

Calibration Times: 18:44 21:32

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID:RRF0.5 = hg0582.d RRF1 = hg0588.d RRF5 = hg0587.d RRF15 = hg0586.d
RRF30 = hg0581a.d RRF50 = hg0585.d RRF80 = hg0584.d RRF120 = hg0583.d

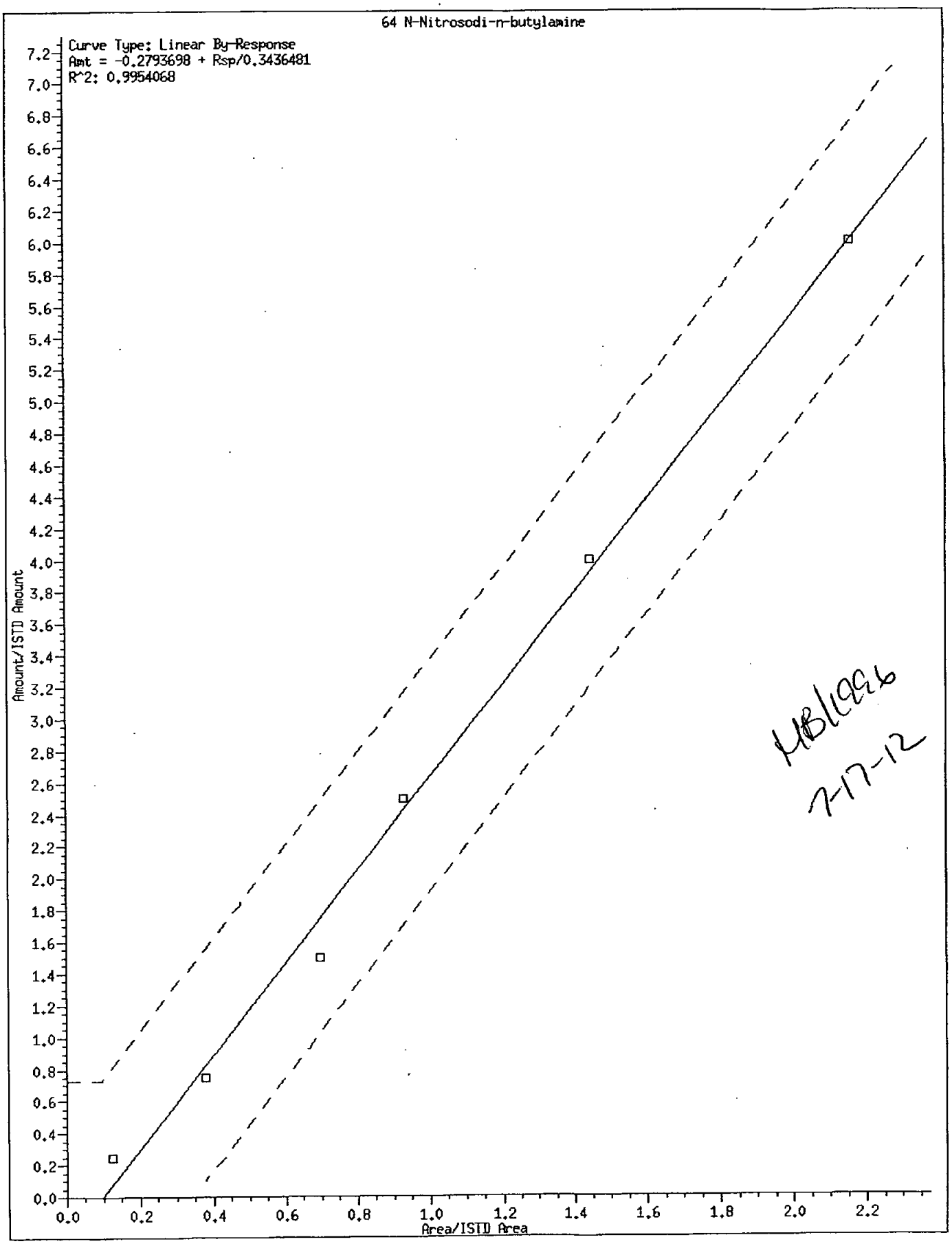
COMPOUND	RRF0.5	RRF1	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	$\overline{RRF}$	% RSD	CAL. METHOD
Di-n-butylphthalate			1.306	1.414	1.369	1.426	1.392	1.376	1.381	3	AVG
Parathion			0.150	0.186	0.188	0.198	0.195	0.198	0.186	10	AVG
4-Nitroquinoline-1-oxide			0.060	0.086	0.103	0.113	0.105	0.103	0.095	20	1STDEG
Isodrin		0.119	0.130	0.141	0.133	0.137	0.134	0.134	0.133	5	AVG
Fluoranthene *	1.122	1.058	1.156	1.181	1.124	1.177	1.153	1.172	1.143	4	AVG *
Benzidine			0.622	0.670	0.711	0.706	0.673	0.650	0.672	5	AVG
Pyrene	1.189	1.209	1.153	1.154	1.112	1.159	1.123	1.084	1.148	4	AVG
p-Dimethylaminoazobenzene		0.157	0.186	0.208	0.214	0.225	0.220	0.212	0.203	12	AVG
Chlorobenzilate		0.235	0.323	0.346	0.340	0.349	0.345	0.340	0.325	13	AVG
3,3'-Dimethylbenzidine			0.480	0.571	0.612	0.652	0.636	0.606	0.593	10	AVG
Butylbenzylphthalate			0.478	0.501	0.495	0.518	0.503	0.493	0.498	3	AVG
2-Acetylaminofluorene			0.302	0.313	0.366	0.390	0.397	0.400	0.361	12	AVG
3,3'-Dichlorobenzidine			0.287	0.284	0.303	0.309	0.307	0.300	0.298	3	AVG
4,4'-Methylenebis(2-Chloroanil			0.127	0.143	0.158	0.164	0.161	0.155	0.151	9	AVG
Benzo(a)anthracene	0.815	0.751	0.884	0.861	0.858	0.875	0.848	0.848	0.842	5	AVG
Chrysene	0.853	0.823	0.898	0.863	0.841	0.869	0.858	0.788	0.849	4	AVG
bis(2-Ethylhexyl)phthalate			0.611	0.616	0.646	0.661	0.657	0.628	0.637	3	AVG
6-Methylchrysene			0.552	0.541	0.551	0.581	0.582	0.573	0.563	3	AVG
Di-n-octylphthalate *			1.406	1.727	1.851	1.964	1.919	1.893	1.793	12	AVG *
Dibenz(a,h)acridine			0.614	0.722	0.803	0.838	0.892	0.939	0.801	15	AVG
Dibenz(a,j)acridine			0.746	0.817	0.861	0.913	0.931	0.939	0.868	9	AVG
7,12-Dimethylbenz[a]anthracene		0.501	0.543	0.596	0.577	0.613	0.590	0.584	0.572	7	AVG
Benzo(b)fluoranthene	1.272	1.142	1.164	1.324	1.232	1.383	1.268	1.339	1.266	7	AVG
Quinoline			0.784	0.791	0.724	0.741	0.740	0.682	0.744	5	AVG
Benzo(k)fluoranthene	1.120	1.205	1.392	1.325	1.299	1.251	1.265	1.164	1.253	7	AVG
Benzo(a)pyrene *	1.004	0.988	1.094	1.179	1.168	1.230	1.203	1.213	1.135	8	AVG *
3-Methylcholanthrene		0.438	0.519	0.564	0.573	0.604	0.597	0.596	0.556	11	AVG
NDPA as diphenylamine			0.698	0.718	0.707	0.748	0.716	0.695	0.714	3	AVG
Indeno(1,2,3-cd)pyrene	0.963	0.941	1.055	1.077	1.127	1.174	1.219	1.220	1.097	10	AVG
Dibenz(a,h)anthracene	0.841	0.763	0.863	0.912	0.954	0.942	0.965	0.969	0.901	8	AVG
Benzo(g,h,i)perylene	0.786	0.796	0.902	0.888	0.951	0.998	1.031	1.058	0.926	11	AVG
Indene			3.102	2.964	2.769	2.846	2.694	2.651	2.838	6	AVG
1-Chloronaphthalene		1.241	1.146	1.086	1.177	1.124	1.169	1.077	1.146	5	AVG
2-Fluorophenol			1.668	1.674	1.630	1.751	1.680	1.708	1.685	2	AVG
Phenol-d5			2.358	2.428	2.335	2.477	2.381	2.343	2.387	2	AVG
Phenol-d6			2.358	2.428	2.335	2.477	2.381	2.343	2.387	2	AVG
Nitrobenzene-d5			0.537	0.544	0.542	0.564	0.556	0.560	0.551	2	AVG
2-Fluorobiphenyl			1.343	1.343	1.319	1.371	1.341	1.289	1.334	2	AVG
2,4,6-Tribromophenol			0.123	0.132	0.121	0.131	0.132	0.128	0.128	4	AVG
Terphenyl-d14			0.667	0.687	0.660	0.683	0.666	0.654	0.670	2	AVG

Average %RSD 6

4,6-Dinitro-2-methylphenol and 4-Nitrophenol are at 10 ng/ul in the 5 standard.
Benzidine Levels in the 5,15,30,50,80,120 standards are 15,45,90,150,240,360 ng/ul, respectively.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul, 30 ng/ul,40 ng/ul in the 5,15,30 standards.

FORM VI SV-1

ASX73 0543


64 N-Nitrosodi-n-butylamine
Curve Type: Linear By-Response
Amt = -0.2793698 + Rsp/0.3436481
R^2: 0.9954068
Amount/ISTD Amount
Area/ISTD Area
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
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1.6
1.8
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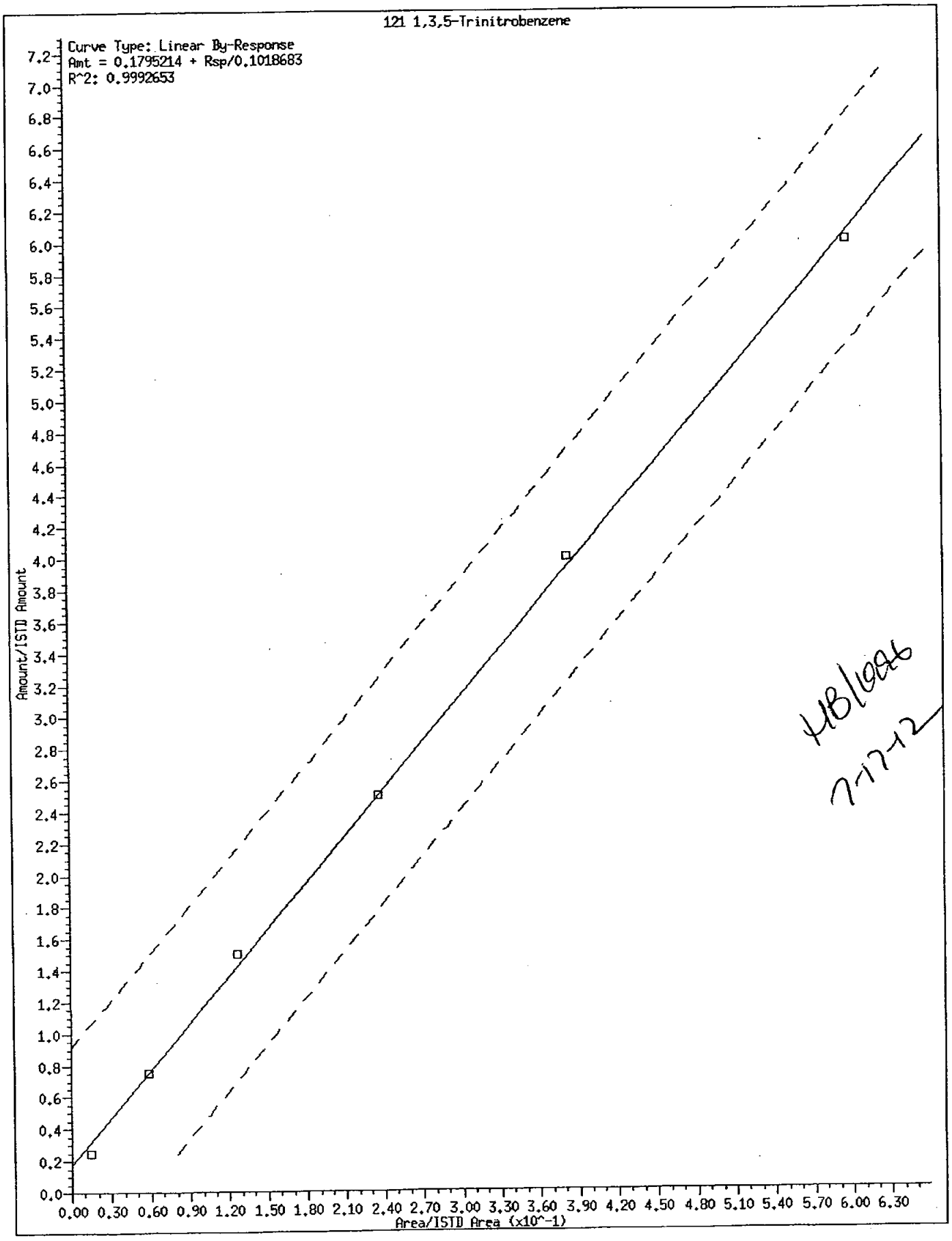
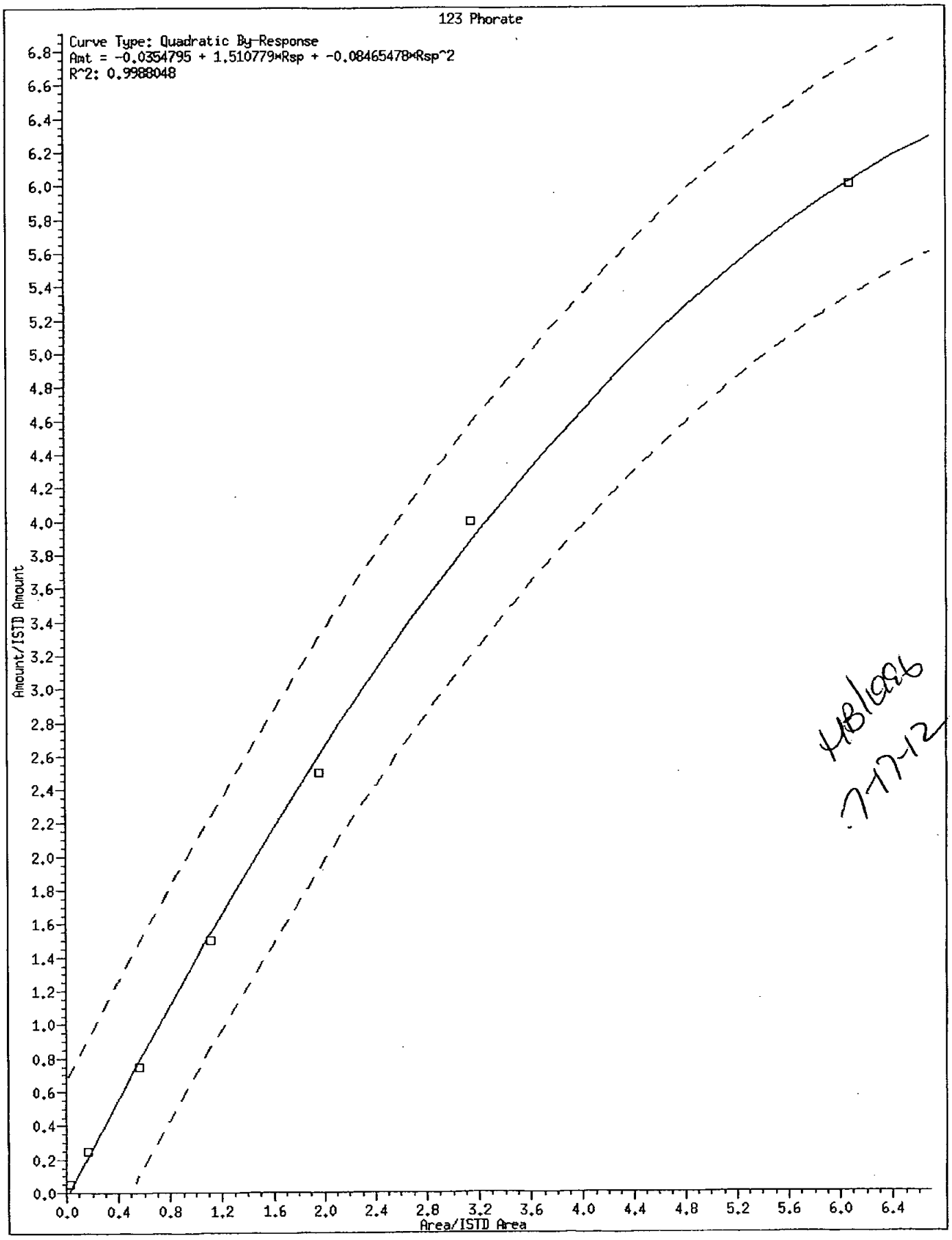
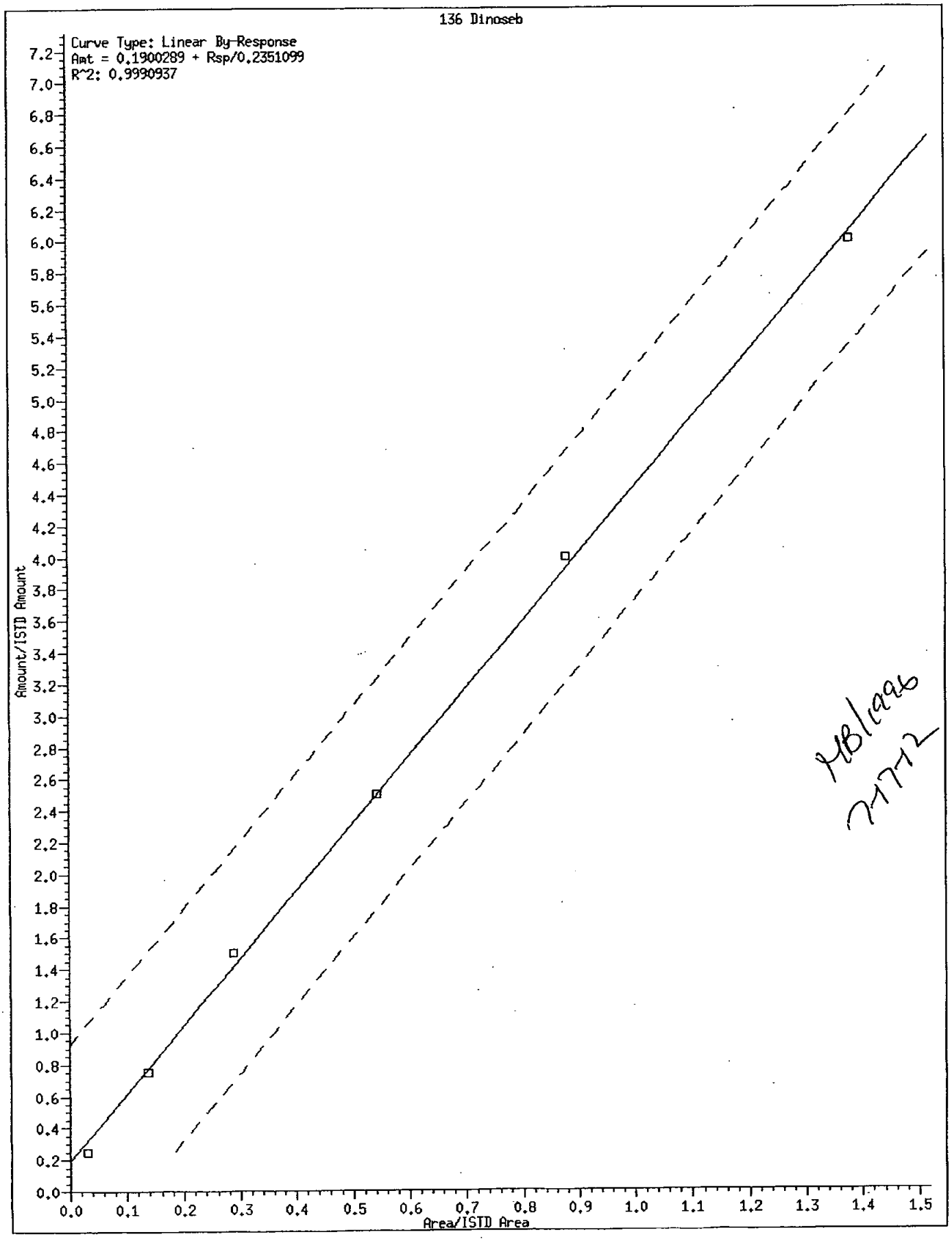
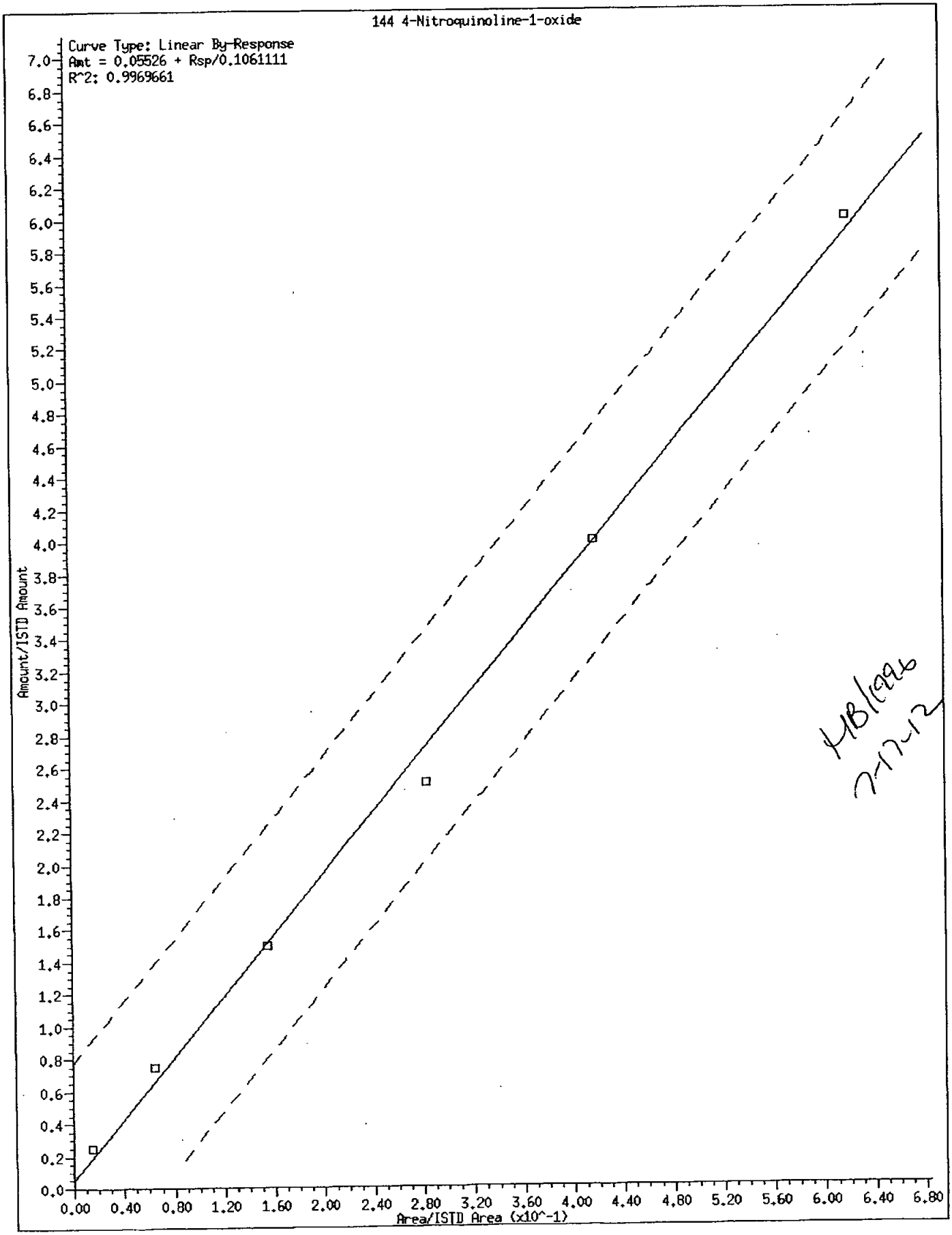
MB1996
7-17-12


121 1,3,5-Trinitrobenzene
Curve Type: Linear By-Response
Amt = 0.1795214 + Rsp/0.1018683
R^2: 0.9992653
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00 6.30
HB 1996
7-17-12


123 Phorate
Curve Type: Quadratic By Response
Amt = -0.0354795 + 1.510779*Rsp + -0.08465478*Rsp^2
R^2: 0.9988048
Amount/ISTD Amount
Area/ISTD Area
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8
0.0 0.4 0.8 1.2 1.6 2.0 2.4 2.8 3.2 3.6 4.0 4.4 4.8 5.2 5.6 6.0 6.4
HB1996
7-17-12



HB 1996
71772


144 4-Nitroquinoline-1-oxide
Curve Type: Linear By-Response
Amt = 0.05526 + Rsp/0.1061111
R^2: 0.9969661
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
HB 1996
7-17-12

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP18831.i/12jul17a.b/hg0581a.d SSTD030
/chem/HP18831.i/12jul17a.b/hg0582.d SSTD0.5
/chem/HP18831.i/12jul17a.b/hg0583.d SSTD120
/chem/HP18831.i/12jul17a.b/hg0584.d SSTD080
/chem/HP18831.i/12jul17a.b/hg0585.d SSTD050
/chem/HP18831.i/12jul17a.b/hg0586.d SSTD015
/chem/HP18831.i/12jul17a.b/hg0587.d SSTD005
/chem/HP18831.i/12jul17a.b/hg0588.d SSTD001

Area Summary

Internal Standard Name	File ID: hg0581a.d	hg0582.d	hg0583.d	hg0584.d	hg0585.d	hg0586.d	hg0587.d	hg0588.d	Avg. Area	%RSD
1,4-Dichlorobenzene-d4	124569	100571	112190	100662	124039	114346	103331	107505	110902	9
Naphthalene-d8	509655	417688	444885	409497	522389	494790	429306	450066	459784	9
Acenaphthene-d10	295701	250893	255302	232108	294057	307096	262838	270197	271024	10
Phenanthrene-d10	474260	437970	395177	372765	470245	527067	459424	473124	451254	11
Pyrene-d10	507050	478823	430152	396902	503525	569214	504773	512191	487829	11
Perylene-d12	285632	284212	242806	227715	277664	296013	305222	281204	275058	10

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

Internal Standard Name	File ID: hg0581a.d	hg0582.d	hg0583.d	hg0584.d	hg0585.d	hg0586.d	hg0587.d	hg0588.d
1,4-Dichlorobenzene-d4	5.748	5.742	5.748	5.748	5.748	5.748	5.748	5.748
Naphthalene-d8	6.984	6.978	6.990	6.984	6.984	6.984	6.984	6.978
Acenaphthene-d10	8.703	8.697	8.709	8.703	8.703	8.697	8.697	8.697
Phenanthrene-d10	10.155	10.149	10.166	10.160	10.160	10.154	10.155	10.149
Pyrene-d10	11.548	11.542	11.554	11.548	11.548	11.547	11.542	11.542
Perylene-d12	14.223	14.217	14.229	14.223	14.223	14.223	14.223	14.217

Comments: _____

Report generated on 07/17/2012 at 22:12

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP18831

Method: SW-846 8270C File ID: hg0591.d

ICV SAMPLE ID: 8270ICV1092 BATCH: 12JUL17A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
1,4-Dioxane	50.00	46.87	-6	30	YES
N-Nitrosodimethylamine	50.00	48.54	-3	30	YES
Pyridine	50.00	46.21	-8	30	YES
2-Picoline	50.00	44.92	-10	30	YES
N-Nitrosomethylethylamine	50.00	45.93	-8	30	YES
Methyl methanesulfonate	50.00	45.94	-8	30	YES
2-Fluorophenol	50.00	47.41	-5	30	YES
N-Nitrosodiethylamine	50.00	47.80	-4	30	YES
Ethyl methanesulfonate	50.00	46.55	-7	30	YES
Aniline	50.00	46.13	-8	30	YES
Phenol-d5	50.00	48.89	-2	30	YES
Phenol-d6	50.00	48.89	-2	30	YES
Phenol	50.00	47.48	-5	30	YES
bis(2-Chloroethyl)ether	50.00	46.50	-7	30	YES
2-Chlorophenol	50.00	47.80	-4	30	YES
1,3-Dichlorobenzene	50.00	47.47	-5	30	YES
1,4-Dichlorobenzene	50.00	47.48	-5	30	YES
Benzyl alcohol	50.00	47.30	-5	30	YES
1,2-Dichlorobenzene	50.00	48.24	-4	30	YES
2-Methylphenol	50.00	47.92	-4	30	YES
2,2'-oxybis(1-Chloropropane	50.00	44.27	-11	30	YES
bis(2-Chloroisopropyl)ether	50.00	44.27	-11	30	YES
N-Nitrosopyrrolidine	50.00	48.32	-3	30	YES
Acetophenone	50.00	44.80	-10	30	YES
N-Nitroso-di-n-propylamine	50.00	46.44	-7	30	YES
N-Nitrosomorpholine	50.00	44.73	-11	30	YES
4-Methylphenol	50.00	49.08	-2	30	YES
o-Toluidine	50.00	46.10	-8	30	YES
Hexachloroethane	50.00	45.51	-9	30	YES
Nitrobenzene-d5	50.00	47.68	-5	30	YES
Nitrobenzene	50.00	45.39	-9	30	YES
N-Nitrosopiperidine	50.00	46.20	-8	30	YES
Isophorone	50.00	45.10	-10	30	YES
2-Nitrophenol	50.00	47.40	-5	30	YES
2,4-Dimethylphenol	50.00	45.97	-8	30	YES
O,O,O-triethylphosphorothio	50.00	46.22	-8	30	YES
bis(2-Chloroethoxy)methane	50.00	41.04	-18	30	YES

NC = Could not calculate

Comments:

BGZZ
7-18-12

ASX73 0550

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP18831

Method: SW-846 8270C File ID: hg0591.d

ICV SAMPLE ID: 8270ICV1092 BATCH: 12JUL17A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Benzoic acid	50.00	49.71	-1	30	YES
2,4-Dichlorophenol	50.00	45.77	-8	30	YES
1,2,4-Trichlorobenzene	50.00	46.17	-8	30	YES
Naphthalene	50.00	43.35	-13	30	YES
4-Chloroaniline	50.00	46.71	-7	30	YES
2,6-Dichlorophenol	50.00	45.29	-9	30	YES
Hexachloropropene	50.00	47.25	-6	30	YES
Hexachlorobutadiene	50.00	45.24	-10	30	YES
N-Nitrosodi-n-butylamine	50.00	43.72	-13	30	YES
4-Chloro-3-methylphenol	50.00	46.33	-7	30	YES
Safrole	50.00	45.79	-8	30	YES
2-Methylnaphthalene	50.00	47.22	-6	30	YES
1-Methylnaphthalene	50.00	44.98	-10	30	YES
Hexachlorocyclopentadiene	100.00	99.17	-1	30	YES
1,2,4,5-Tetrachlorobenzene	50.00	46.90	-6	30	YES
cis-Isosafrole	5.50	5.25	-5	30	YES
2,4,6-Trichlorophenol	50.00	49.79	0	30	YES
2,4,5-Trichlorophenol	50.00	47.68	-5	30	YES
2-Fluorobiphenyl	50.00	49.18	-2	30	YES
trans-Isosafrole	44.50	42.38	-5	30	YES
Isosafrole	50.00	47.61	-5	30	YES
1,1'-Biphenyl	50.00	44.91	-10	30	YES
2-Chloronaphthalene	50.00	42.90	-14	30	YES
Diphenyl ether	50.00	48.13	-4	30	YES
2-Nitroaniline	50.00	48.55	-3	30	YES
1,4-Naphthoquinone	62.50	58.15	-7	30	YES
1,4-Dinitrobenzene	50.00	50.28	1	30	YES
Dimethylphthalate	50.00	45.84	-8	30	YES
1,3-Dinitrobenzene	50.00	49.74	-1	30	YES
2,6-Dinitrotoluene	50.00	47.91	-4	30	YES
Acenaphthylene	50.00	47.24	-6	30	YES
3-Nitroaniline	50.00	49.40	-1	30	YES
Acenaphthene	50.00	44.88	-10	30	YES
2,4-Dinitrophenol	50.00	49.55	-1	30	YES
Pentachlorobenzene	50.00	47.27	-5	30	YES
4-Nitrophenol	50.00	49.51	-1	30	YES
Dibenzofuran	50.00	45.73	-9	30	YES

NC = Could not calculate

Comments:

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP18831

Method: SW-846 8270C File ID: hg0591.d

ICV SAMPLE ID: 8270ICV1092 BATCH: 12JUL17A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
2,4-Dinitrotoluene	50.00	46.51	-7	30	YES
1-Naphthylamine	100.00	86.45	-14	30	YES
2,3,4,6-Tetrachlorophenol	50.00	52.51	5	30	YES
2-Naphthylamine	100.00	89.43	-11	30	YES
Diethylphthalate	50.00	45.49	-9	30	YES
Thionazin	50.00	49.27	-1	30	YES
Fluorene	50.00	44.01	-12	30	YES
4-Chlorophenyl-phenylether	50.00	43.72	-13	30	YES
5-Nitro-o-toluidine	50.00	47.59	-5	30	YES
4-Nitroaniline	50.00	46.82	-6	30	YES
4,6-Dinitro-2-methylphenol	50.00	51.05	2	30	YES
N-Nitrosodiphenylamine	50.00	49.05	-2	30	YES
1,2-Diphenylhydrazine	50.00	47.26	-5	30	YES
2,4,6-Tribromophenol	50.00	51.52	3	30	YES
Tetraethyldithiopyrophospha	50.00	48.15	-4	30	YES
1,3,5-Trinitrobenzene	50.00	48.70	-3	30	YES
Diallate (peak 1)	37.50	39.23	5	30	YES
Phorate	50.00	46.97	-6	30	YES
Phenacetin	50.00	49.25	-2	30	YES
4-Bromophenyl-phenylether	50.00	47.85	-4	30	YES
Diallate (peak 2)	12.50	9.99	-20	30	YES
Hexachlorobenzene	50.00	47.93	-4	30	YES
Dimethoate	50.00	42.65	-15	30	YES
Diallate TRANS/CIS	50.00	50.21	0	30	YES
Pentachlorophenol	50.00	52.23	4	30	YES
Pentachloronitrobenzene	50.00	48.70	-3	30	YES
4-Aminobiphenyl	50.00	60.21	20	30	YES
Pronamide	50.00	50.57	1	30	YES
Dinoseb	50.00	47.34	-5	30	YES
Phenanthrene	50.00	44.46	-11	30	YES
Anthracene	50.00	47.72	-5	30	YES
Carbazole	50.00	48.18	-4	30	YES
Methyl parathion	50.00	46.48	-7	30	YES
Di-n-butylphthalate	50.00	47.87	-4	30	YES
Parathion	50.00	51.10	2	30	YES
4-Nitroquinoline-1-oxide	550.00	668.07	21	30	YES
Isodrin	50.00	47.58	-5	30	YES

NC = Could not calculate

Comments:

ASX73 0552

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP18831

Method: SW-846 8270C File ID: hg0591.d

ICV SAMPLE ID: 8270ICV1092 BATCH: 12JUL17A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Fluoranthene	50.00	49.73	-1	30	YES
Benzidine	250.00	205.86	-18	30	YES
Pyrene	50.00	45.70	-9	30	YES
Terphenyl-d14	50.00	49.65	-1	30	YES
p-Dimethylaminoazobenzene	50.00	50.19	0	30	YES
Chlorobenzilate	50.00	52.61	5	30	YES
3,3'-Dimethylbenzidine	50.00	46.62	-7	30	YES
Butylbenzylphthalate	50.00	46.92	-6	30	YES
2-Acetylaminofluorene	50.00	51.20	2	30	YES
3,3'-Dichlorobenzidine	50.00	48.64	-3	30	YES
4,4'-Methylenebis(2-Chloroa	50.00	47.61	-5	30	YES
Benzo(a)anthracene	50.00	47.64	-5	30	YES
Chrysene	50.00	45.71	-9	30	YES
bis(2-Ethylhexyl)phthalate	50.00	48.65	-3	30	YES
Di-n-octylphthalate	50.00	47.71	-5	30	YES
7,12-Dimethylbenz[a]anthrac	50.00	49.51	-1	30	YES
Benzo(b)fluoranthene	50.00	44.10	-12	30	YES
Benzo(k)fluoranthene	50.00	49.33	-1	30	YES
Benzo(a)pyrene	50.00	49.61	-1	30	YES
3-Methylcholanthrene	50.00	49.37	-1	30	YES
Indeno(1,2,3-cd)pyrene	50.00	50.98	2	30	YES
Dibenz(a,h)anthracene	50.00	51.04	2	30	YES
Benzo(g,h,i)perylene	50.00	50.64	1	30	YES
6-Methylchrysene	50.00	48.97	-2	30	YES
Dibenz(a,h)acridine	50.00	40.69	-19	30	YES
Dibenz(a,j)acridine	50.00	52.45	5	30	YES
Quinoline	50.00	46.13	-8	30	YES
Indene	50.00	41.21	-18	30	YES

NC = Could not calculate

Comments:

ASX73 0553

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date: 07/18/12 Time: 18:41

Lab File ID: hg0741.d Init. Calib. Date(s): 07/17/12 07/17/12

Init. Calib. Times(s): 18:44 21:32

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.779	0.711	27.400	30.0	-9
	N-Nitrosodimethylamine	1.281	1.226	28.710	30.0	-4
	Pyridine	2.137	2.149	30.180	30.0	1
	2-Picoline	2.205	2.067	28.120	30.0	-6
	N-Nitrosomethylethylamine	1.011	0.958	28.430	30.0	-5
	Methyl methanesulfonate	1.154	1.109	28.840	30.0	-4
	N-Nitrosodiethylamine	0.965	0.942	29.300	30.0	-2
	Ethyl methanesulfonate	0.920	0.906	29.520	30.0	-2
	Benzaldehyde	1.622	1.324	24.490	30.0	-18
	Aniline	3.244	3.099	28.660	30.0	-4
*	Phenol	2.822	2.760	29.340	30.0	-2*
	bis(2-Chloroethyl)ether	2.100	2.042	29.170	30.0	-3
	2-Chlorophenol	1.563	1.525	29.270	30.0	-2
	1,3-Dichlorobenzene	1.577	1.510	28.720	30.0	-4
*	1,4-Dichlorobenzene	1.610	1.547	28.830	30.0	-4*
	Benzyl alcohol	1.356	1.360	30.080	30.0	0
	1,2-Dichlorobenzene	1.498	1.473	29.490	30.0	-2
	2-Methylphenol	1.802	1.768	29.420	30.0	-2
	2,2'-oxybis(1-Chloropropane)	2.460	2.307	28.140	30.0	-6
	bis(2-Chloroisopropyl)ether	2.460	2.307	28.140	30.0	-6
	N-Nitrosopyrrolidine	0.979	1.004	30.740	30.0	2
	Acetophenone	2.746	2.689	29.380	30.0	-2
#	N-Nitroso-di-n-propylamine	1.658	1.610	29.130	30.0	-3#
	N-Nitrosomorpholine	1.169	1.108	28.430	30.0	-5
	4-Methylphenol	1.952	2.005	30.800	30.0	3
	o-Toluidine	2.900	2.865	29.640	30.0	-1
	Hexachloroethane	0.712	0.689	29.040	30.0	-3
	Nitrobenzene	0.573	0.538	28.140	30.0	-6
	N-Nitrosopiperidine	0.218	0.208	28.750	30.0	-4
	Isophorone	1.076	1.015	28.290	30.0	-6
*	2-Nitrophenol	0.203	0.196	29.030	30.0	-3*
	2,4-Dimethylphenol	0.476	0.449	28.300	30.0	-6
	O,O,O-triethylphosphorothioate	0.188	0.173	27.680	30.0	-8
	bis(2-Chloroethoxy)methane	0.648	0.598	27.680	30.0	-8
	Benzoic acid	0.367	0.333	36.300	40.0	-9
*	2,4-Dichlorophenol	0.305	0.294	28.850	30.0	-4*

FORM VII SV-1

ASX73 0554

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date: 07/18/12 Time: 18:41

Lab File ID: hg0741.d Init. Calib. Date(s): 07/17/12 07/17/12

Init. Calib. Times(s): 18:44 21:32

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
1,2,4-Trichlorobenzene	0.338	0.323	28.730	30.0	-4
Naphthalene	1.140	1.070	28.180	30.0	-6
4-Chloroaniline	0.463	0.458	29.700	30.0	-1
2,6-Dichlorophenol	0.294	0.286	29.180	30.0	-3
Hexachloropropene	0.198	0.197	29.780	30.0	-1
* Hexachlorobutadiene	0.175	0.164	28.180	30.0	-6*
Caprolactam	0.161	0.167	31.020	30.0	3
N-Nitrosodi-n-butylamine	0.427	0.351	25.030	30.0	-17
* 4-Chloro-3-methylphenol	0.418	0.410	29.410	30.0	-2*
Safrole	0.291	0.284	29.260	30.0	-2
2-Methylnaphthalene	0.696	0.680	29.300	30.0	-2
1-Methylnaphthalene	0.681	0.657	28.950	30.0	-4
# Hexachlorocyclopentadiene	0.247	0.241	29.350	30.0	-2#
1,2,4,5-Tetrachlorobenzene	0.533	0.514	28.920	30.0	-4
cis-Isosafrole	0.837	0.807	3.180	3.3	-4
* 2,4,6-Trichlorophenol	0.372	0.370	29.840	30.0	-1*
2,4,5-Trichlorophenol	0.411	0.412	30.090	30.0	0
trans-Isosafrole	0.581	0.566	26.040	26.7	-2
Isosafrole	0.517	0.504	29.260	30.0	-2
1,1'-Biphenyl	1.587	1.542	29.140	30.0	-3
2-Chloronaphthalene	1.153	1.321	34.380	30.0	15
Diphenyl ether	0.845	0.789	28.030	30.0	-7
2-Nitroaniline	0.398	0.412	31.060	30.0	4
1,4-Naphthoquinone	0.487	0.493	30.400	30.0	1
1,4-Dinitrobenzene	0.217	0.215	29.620	30.0	-1
Dimethylphthalate	1.351	1.333	29.610	30.0	-1
1,3-Dinitrobenzene	0.255	0.257	30.140	30.0	0
2,6-Dinitrotoluene	0.306	0.313	30.780	30.0	3
Acenaphthylene	1.750	1.718	29.440	30.0	-2
3-Nitroaniline	0.349	0.363	31.210	30.0	4
* Acenaphthene	1.199	1.153	28.860	30.0	-4*
# 2,4-Dinitrophenol	0.186	0.197	42.310	40.0	6#
Pentachlorobenzene	0.429	0.405	28.310	30.0	-6
# 4-Nitrophenol	0.242	0.256	31.830	30.0	6#
Dibenzofuran	1.700	1.635	28.860	30.0	-4
2,4-Dinitrotoluene	0.393	0.398	30.350	30.0	1

FORM VII SV-1

ASX73 0555

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date: 07/18/12 Time: 18:41

Lab File ID: hg0741.d Init. Calib. Date(s): 07/17/12 07/17/12

Init. Calib. Times(s): 18:44 21:32

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
1-Naphthylamine	1.221	1.226	30.120	30.0	0
2,3,4,6-Tetrachlorophenol	0.293	0.301	30.830	30.0	3
2-Naphthylamine	1.206	1.244	30.950	30.0	3
Diethylphthalate	1.398	1.377	29.550	30.0	-2
Thionazin	0.287	0.268	27.990	30.0	-7
Fluorene	1.359	1.342	29.620	30.0	-1
4-Chlorophenyl-phenylether	0.655	0.640	29.310	30.0	-2
5-Nitro-o-toluidine	0.390	0.398	30.630	30.0	2
4-Nitroaniline	0.352	0.362	30.850	30.0	3
4,6-Dinitro-2-methylphenol	0.143	0.140	29.250	30.0	-3
* N-Nitrosodiphenylamine (1)	0.707	0.698	29.620	30.0	-1*
1,2-Diphenylhydrazine	1.231	1.172	28.560	30.0	-5
Tetraethyldithiopyrophosphate	0.173	0.167	29.070	30.0	-3
1,3,5-Trinitrobenzene	0.085	0.086	28.850	30.0	-4
Diallate (peak 1)	0.571	0.542	21.380	22.5	-5
Phorate	0.754	0.743	30.860	30.0	3
Phenacetin	0.498	0.509	30.700	30.0	2
4-Bromophenyl-phenylether	0.201	0.192	28.560	30.0	-5
Diallate (peak 2)	0.350	0.331	7.100	7.5	-5
Hexachlorobenzene	0.198	0.187	28.340	30.0	-6
Dimethoate	0.404	0.423	31.370	30.0	5
Diallate TRANS/CIS	0.515	0.489	28.480	30.0	-5
Atrazine	0.189	0.161	25.510	30.0	-15
* Pentachlorophenol	0.127	0.125	29.660	30.0	-1*
Pentachloronitrobenzene	0.091	0.090	29.790	30.0	-1
4-Aminobiphenyl	0.665	0.620	27.980	30.0	-7
Pronamide	0.346	0.362	31.360	30.0	5
Dinoseb	0.194	0.198	29.060	30.0	-3
Phenanthrene	1.152	1.130	29.410	30.0	-2
Anthracene	1.139	1.148	30.250	30.0	1
Carbazole	1.086	1.080	29.860	30.0	0
Methyl parathion	0.291	0.309	31.890	30.0	6
Di-n-butylphthalate	1.380	1.412	30.690	30.0	2
Parathion	0.186	0.191	30.800	30.0	3
4-Nitroquinoline-1-oxide	0.095	0.103	30.220	30.0	1
Isodrin	0.133	0.132	29.870	30.0	0

(1) Cannot be Separated from Diphenylamine

FORM VII SV-1

ASX73 0556

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date: 07/18/12 Time: 18:41

Lab File ID: hg0741.d Init. Calib. Date(s): 07/17/12 07/17/12

Init. Calib. Times(s): 18:44 21:32

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
* Fluoranthene	1.143	1.176	30.870	30.0	3*
Benzidine	0.672	0.727	97.380	90.0	8
Pyrene	1.148	1.103	28.830	30.0	-4
p-Dimethylaminoazobenzene	0.203	0.216	31.890	30.0	6
Chlorobenzilate	0.325	0.350	32.310	30.0	8
3,3'-Dimethylbenzidine	0.593	0.641	32.440	30.0	8
Butylbenzylphthalate	0.498	0.521	31.400	30.0	5
2-Acetylaminofluorene	0.361	0.408	33.860	30.0	13
3,3'-Dichlorobenzidine	0.298	0.323	32.470	30.0	8
4,4'-Methylenebis(2-Chloroanil	0.151	0.172	34.120	30.0	14
Benzo(a)anthracene	0.842	0.910	32.400	30.0	8
Chrysene	0.849	0.887	31.320	30.0	4
bis(2-Ethylhexyl)phthalate	0.637	0.691	32.580	30.0	9
6-Methylchrysene	0.563	0.610	32.480	30.0	8
Dibenz(a,h)acridine	0.801	0.832	31.130	30.0	4
* Di-n-octylphthalate	1.793	1.794	30.020	30.0	0*
Dibenz(a,j)acridine	0.868	0.872	30.150	30.0	0
7,12-Dimethylbenz[a]anthracene	0.572	0.553	28.990	30.0	-3
Quinoline	0.744	0.728	29.360	30.0	-2
Benzo(b)fluoranthene	1.265	1.153	27.340	30.0	-9
Benzo(k)fluoranthene	1.253	1.275	30.540	30.0	2
* Benzo(a)pyrene	1.135	1.135	30.010	30.0	0*
3-Methylcholanthrene	0.556	0.575	31.060	30.0	4
NDPA as diphenylamine	0.714	0.698	29.350	30.0	-2
Indeno(1,2,3-cd)pyrene	1.097	1.160	31.730	30.0	6
Dibenz(a,h)anthracene	0.901	0.950	31.630	30.0	5
Benzo(g,h,i)perylene	0.926	0.987	31.970	30.0	7
Indene	2.838	2.716	28.710	30.0	-4
1-Chloronaphthalene	1.146	1.093	28.610	30.0	-5
2-Fluorophenol	1.685	1.621	28.850	30.0	-4
Phenol-d5	2.387	2.305	28.980	30.0	-3
Phenol-d6	2.387	2.305	28.980	30.0	-3
Nitrobenzene-d5	0.551	0.519	28.280	30.0	-6
2-Fluorobiphenyl	1.334	1.296	29.150	30.0	-3
2,4,6-Tribromophenol	0.128	0.133	31.280	30.0	4

FORM VII SV-1

ASX73 0557

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date: 07/18/12 Time: 18:41

Lab File ID: hg0741.d Init. Calib. Date(s): 07/17/12 07/17/12

Init. Calib. Times(s): 18:44 21:32

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
Terphenyl-d14	0.670	0.662	29.640	30.0	-1

Average %Drift: 4

FORM VII SV-1

ASX73 0558

Continuing Calibration
Internal Standard Area and Retention Time
Summary

Initial Calibration Standards:

/chem/HP18831.i/12jul17a.b/hg0581a.d
/chem/HP18831.i/12jul17a.b/hg0582.d
/chem/HP18831.i/12jul17a.b/hg0583.d
/chem/HP18831.i/12jul17a.b/hg0584.d
/chem/HP18831.i/12jul17a.b/hg0585.d
/chem/HP18831.i/12jul17a.b/hg0586.d **
/chem/HP18831.i/12jul17a.b/hg0587.d
/chem/HP18831.i/12jul17a.b/hg0588.d

** indicates the Mid Level Calibration Standard.

Mid Level Calibration Standard is used for comparison.

Current Continuing Calibration Standard:

/chem/HP18831.i/12jul18a.b/hg0741.d

Area Summary

File ID:

Internal Standard Name	hg0741.d	ICAL Area	Low Limit	High Limit	In Spec
1,4-Dichlorobenzene-d4	118020	114346	57173	228692	Yes
Naphthalene-d8	501337	494790	247395	989580	Yes
Acenaphthene-d10	296645	307096	153548	614192	Yes
Phenanthrene-d10	498473	527067	263534	1054134	Yes
Pyrene-d10	551943	569214	284607	1138428	Yes
Perylene-d12	361995	296013	148006	592026	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

RT Summary

File ID:

Internal Standard Name	hg0741.d	ICAL RT	In Spec
1,4-Dichlorobenzene-d4	5.684	5.748	Yes
Naphthalene-d8	6.920	6.984	Yes
Acenaphthene-d10	8.639	8.697	Yes
Phenanthrene-d10	10.096	10.154	Yes
Pyrene-d10	11.484	11.547	Yes
Perylene-d12	14.153	14.223	Yes

A "No" indicates the retention time is greater than 30 seconds from the RT of the referenced standard.

Comments: _____

Data File: /chem/HP18831.i/12jul18a.b/hg0769.d
Report Date: 07/19/2012 05:37

Lancaster Laboratories, Inc.
Shift Ending Continuing Calibration Check Report

7-19-2012 1957
8/1/12

Instrument ID: HP18831.i
Client ID: SSTD030
Lab Sample ID: STD1982
Sublist used: newall1.sub

Injection Date and Time: 19-JUL-2012 05:14
Initial Calibration Date(s): 17-JUL-2012 ~~18~~ 17-JUL-2012
Initial Calibration Time(s): 18:44 ~~21:01~~ 21:32
Method used: /chem/HP18831.i/12jul18a.b/m8270.m

Target Compounds	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
1,4-Dioxane	0.77852	0.66853	0.010	14.1	20.0
N-Nitrosodimethylamine	1.28147	1.18502	0.010	7.5	20.0
Pyridine	2.13667	2.10880	0.010	1.3	20.0
2-Picoline	2.20468	1.98482	0.010	10.0	20.0
N-Nitrosomethylethylamine	1.01129	0.94472	0.010	6.6	20.0
Methyl methanesulfonate	1.15373	1.07138	0.010	7.1	20.0
N-Nitrosodiethylamine	0.96457	0.91275	0.010	5.4	20.0
Ethyl methanesulfonate	0.92042	0.85169	0.010	7.5	20.0
Benzaldehyde	1.62207	1.32799	0.010	18.1	20.0
Aniline	3.24375	3.04720	0.010	6.1	20.0
Phenol	2.82222	2.65905	0.010	5.8	20.0
bis(2-Chloroethyl)ether	2.10037	2.00166	0.010	4.7	20.0
2-Chlorophenol	1.56308	1.51367	0.010	3.2	20.0
1,3-Dichlorobenzene	1.57677	1.51029	0.010	4.2	20.0
1,4-Dichlorobenzene	1.60993	1.54130	0.010	4.3	20.0
Benzyl alcohol	1.35576	1.31479	0.010	3.0	20.0
1,2-Dichlorobenzene	1.49843	1.45734	0.010	2.7	20.0
2-Methylphenol	1.80241	1.72743	0.010	4.2	20.0
2,2'-oxybis(1-Chloropropane)	2.45955	2.12304	0.010	13.7	20.0
bis(2-Chloroisopropyl)ether	2.45955	2.12304	0.010	13.7	20.0
N-Nitrosopyrrolidine	0.97946	0.94202	0.010	3.8	20.0
Acetophenone	2.74623	2.63678	0.010	4.0	20.0
N-Nitroso-di-n-propylamine	1.65846	1.54932	0.010	6.6	20.0
N-Nitrosomorpholine	1.16948	1.06522	0.010	8.9	20.0
4-Methylphenol	1.95246	1.97449	0.010	-1.1	20.0
o-Toluidine	2.89987	2.78556	0.010	3.9	20.0
Hexachloroethane	0.71190	0.68585	0.010	3.7	20.0
Nitrobenzene	0.57315	0.55071	0.010	3.9	20.0
N-Nitrosopiperidine	0.21757	0.20674	0.010	5.0	20.0
Isophorone	1.07621	1.00883	0.010	6.3	20.0
2-Nitrophenol	0.20248	0.19895	0.010	1.7	20.0
2,4-Dimethylphenol	0.47608	0.46203	0.010	3.0	20.0
O,O,O-triethylphosphorothioate	0.18777	0.18114	0.010	3.5	20.0
bis(2-Chloroethoxy)methane	0.64790	0.59965	0.010	7.4	20.0
Benzoic acid	0.36706	0.28397	0.010	22.6	20.0
2,4-Dichlorophenol	0.30534	0.30239	0.010	1.0	20.0
1,2,4-Trichlorobenzene	0.33746	0.33627	0.010	0.4	20.0
Naphthalene	1.13950	1.07836	0.010	5.4	20.0
4-Chloroaniline	0.46289	0.45303	0.010	2.1	20.0
2,6-Dichlorophenol	0.29359	0.28871	0.010	1.7	20.0
Hexachloropropene	0.19827	0.17873	0.010	9.9	20.0
Hexachlorobutadiene	0.17464	0.17272	0.010	1.1	20.0
Caprolactam	0.16131	0.16815	0.010	-4.2	20.0
N-Nitrosodi-n-butylamine	30.000	27.160	0.010	9.5	20.0
4-Chloro-3-methylphenol	0.41843	0.42152	0.010	-0.7	20.0
Safrole	0.29124	0.28874	0.010	0.9	20.0
2-Methylnaphthalene	0.69586	0.68358	0.010	1.8	20.0
1-Methylnaphthalene	0.68072	0.66907	0.010	1.7	20.0

ASX73 0560

Data File: /chem/HP18831.i/12jul18a.b/hg0769.d
Report Date: 07/19/2012 05:37

Lancaster Laboratories, Inc.
Shift Ending Continuing Calibration Check Report

③ 081557
8/1/12

Instrument ID: HP18831.i
Client ID: SSTD030
Lab Sample ID: STD1982
Sublist used: newall1.sub

Injection Date and Time: 19-JUL-2012 05:14
Initial Calibration Date(s): 17-JUL-2012 1~~8~~7-JUL-2012
Initial Calibration Time(s): 18:44 ~~21:01~~ 21:32
Method used: /chem/HP18831.i/12jul18a.b/m8270.m

Target Compounds	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
Hexachlorocyclopentadiene	0.24648	0.16296	0.010	33.9	20.0
1,2,4,5-Tetrachlorobenzene	0.53327	0.54144	0.010	-1.5	20.0
cis-Isosafrole	0.83725	0.84435	0.010	-0.8	20.0
2,4,6-Trichlorophenol	0.37177	0.38934	0.010	-4.7	20.0
2,4,5-Trichlorophenol	0.41082	0.42069	0.010	-2.4	20.0
trans-Isosafrole	0.58073	0.58366	0.010	-0.5	20.0
Isosafrole	0.51685	0.51946	0.010	-0.5	20.0
1,1'-Biphenyl	1.58705	1.60280	0.010	-1.0	20.0
2-Chloronaphthalene	1.15313	1.17135	0.010	-1.6	20.0
Diphenyl ether	0.84482	0.84149	0.010	0.4	20.0
2-Nitroaniline	0.39824	0.41874	0.010	-5.1	20.0
1,4-Naphthoquinone	0.48686	0.46727	0.010	4.0	20.0
1,4-Dinitrobenzene	0.21735	0.21934	0.010	-0.9	20.0
Dimethylphthalate	1.35099	1.32393	0.010	2.0	20.0
1,3-Dinitrobenzene	0.25533	0.25708	0.010	-0.7	20.0
2,6-Dinitrotoluene	0.30549	0.32086	0.010	-5.0	20.0
Acenaphthylene	1.75035	1.76311	0.010	-0.7	20.0
3-Nitroaniline	0.34900	0.36491	0.010	-4.6	20.0
Acenaphthene	1.19853	1.18158	0.010	1.4	20.0
2,4-Dinitrophenol	0.18613	0.07849	0.010	57.8	20.0
Pentachlorobenzene	0.42910	0.43808	0.010	-2.1	20.0
4-Nitrophenol	0.24148	0.25636	0.010	-6.2	20.0
Dibenzofuran	1.70010	1.69612	0.010	0.2	20.0
2,4-Dinitrotoluene	0.39337	0.40166	0.010	-2.1	20.0
1-Naphthylamine	1.22133	1.26752	0.010	-3.8	20.0
2,3,4,6-Tetrachlorophenol	0.29321	0.31531	0.010	-7.5	20.0
2-Naphthylamine	1.20564	1.28868	0.010	-6.9	20.0
Diethylphthalate	1.39759	1.40428	0.010	-0.5	20.0
Thionazin	0.28717	0.27050	0.010	5.8	20.0
Fluorene	1.35891	1.38343	0.010	-1.8	20.0
4-Chlorophenyl-phenylether	0.65553	0.65874	0.010	-0.5	20.0
5-Nitro-o-toluidine	0.38956	0.41073	0.010	-5.4	20.0
4-Nitroaniline	0.35182	0.36207	0.010	-2.9	20.0
4,6-Dinitro-2-methylphenol	0.14335	0.08268	0.010	42.3	20.0
N-Nitrosodiphenylamine	0.70712	0.67879	0.010	4.0	20.0
1,2-Diphenylhydrazine	1.23144	1.12223	0.010	8.9	20.0
Tetraethyldithiopyrophosphate	0.17266	0.16366	0.010	5.2	20.0
1,3,5-Trinitrobenzene	30.000	24.107	0.010	19.6	20.0
Diallate (peak 1)	0.57071	0.52150	0.010	8.6	20.0
Phorate	30.000	36.839	0.010	-22.8	20.0
Phenacetin	0.49777	0.49753	0.010	0.0	20.0
4-Bromophenyl-phenylether	0.20152	0.19757	0.010	2.0	20.0
Diallate (peak 2)	0.34950	0.33251	0.010	4.9	20.0
Hexachlorobenzene	0.19754	0.19106	0.010	3.3	20.0
Dimethoate	0.40412	0.43718	0.010	-8.2	20.0
Diallate TRANS/CIS	0.51541	0.47426	0.010	8.0	20.0
Atrazine	0.18940	0.20523	0.010	-8.4	20.0
Pentachlorophenol	0.12695	0.11832	0.010	6.8	20.0

ASX73 0561

Data File: /chem/HP18831.i/12jul18a.b/hg0769.d
Report Date: 07/19/2012 05:37

Lancaster Laboratories, Inc.
Shift Ending Continuing Calibration Check Report

③ LS 1987 8/1/12

Instrument ID: HP18831.i
Client ID: SSTD030
Lab Sample ID: STD1982
Sublist used: newall1.sub

Injection Date and Time: 19-JUL-2012 05:14
Initial Calibration Date(s): 17-JUL-2012 ~~18~~ 7-JUL-2012
Initial Calibration Time(s): 18:44 ~~21:01~~ 21:32
Method used: /chem/HP18831.i/12jul18a.b/m8270.m

Target Compounds	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
Pentachloronitrobenzene	0.09063	0.08723	0.010	3.8	20.0
4-Aminobiphenyl	0.66514	0.71791	0.010	-7.9	20.0
Pronamide	0.34612	0.35098	0.010	-1.4	20.0
Dinoseb	30.000	19.302	0.010	35.7	20.0
Phenanthrene	1.15232	1.11987	0.010	2.8	20.0
Anthracene	1.13865	1.13187	0.010	0.6	20.0
Carbazole	1.08566	1.07664	0.010	0.8	20.0
Methyl parathion	0.29096	0.30749	0.010	-5.7	20.0
Di-n-butylphthalate	1.38050	1.37509	0.010	0.4	20.0
Parathion	0.18575	0.18992	0.010	-2.2	20.0
4-Nitroquinoline-1-oxide	30.000	17.544	0.010	41.5	20.0
Isodrin	0.13270	0.12901	0.010	2.8	20.0
Fluoranthene	1.14296	1.16541	0.010	-2.0	20.0
Benzidine	0.67194	0.70237	0.010	-4.5	20.0
Pyrene	1.14785	1.11031	0.010	3.3	20.0
p-Dimethylaminoazobenzene	0.20311	0.22043	0.010	-8.5	20.0
Chlorobenzilate	0.32539	0.34263	0.010	-5.3	20.0
3,3'-Dimethylbenzidine	0.59289	0.62705	0.010	-5.8	20.0
Butylbenzylphthalate	0.49806	0.51254	0.010	-2.9	20.0
2-Acetylaminofluorene	0.36123	0.41098	0.010	-13.8	20.0
3,3'-Dichlorobenzidine	0.29838	0.30505	0.010	-2.2	20.0
4,4'-Methylenebis(2-Chloroanil	0.15132	0.16483	0.010	-8.9	20.0
Benzo(a)anthracene	0.84244	0.85155	0.010	-1.1	20.0
Chrysene	0.84911	0.81890	0.010	3.6	20.0
bis(2-Ethylhexyl)phthalate	0.63655	0.66119	0.010	-3.9	20.0
6-Methylchrysene	0.56353	0.54227	0.010	3.8	20.0
Dibenz(a,h)acridine	0.80142	0.82738	0.010	-3.2	20.0
Di-n-octylphthalate	1.79329	1.97295	0.010	-10.0	20.0
Dibenz(a,j)acridine	0.86770	0.86851	0.010	-0.1	20.0
7,12-Dimethylbenz[a]anthracene	0.57212	0.57340	0.010	-0.2	20.0
Benzo(b)fluoranthene	1.26552	1.27471	0.010	-0.7	20.0
Quinoline	0.74364	0.70889	0.010	4.7	20.0
Benzo(k)fluoranthene	1.25260	1.16798	0.010	6.8	20.0
Benzo(a)pyrene	1.13482	1.12694	0.010	0.7	20.0
3-Methylcholanthrene	0.55570	0.55583	0.010	0.0	20.0
NDPA as diphenylamine	0.71351	0.67879	0.010	4.9	20.0
Indeno(1,2,3-cd)pyrene	1.09692	1.14453	0.010	-4.3	20.0
Dibenz(a,h)anthracene	0.90112	0.95497	0.010	-6.0	20.0
Indene	2.83774	2.64311	0.010	6.9	20.0
Benzo(g,h,i)perylene	0.92622	0.96217	0.010	-3.9	20.0
1-Chloronaphthalene	1.14559	1.08945	0.010	4.9	20.0

Surrogate Standards	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
2-Fluorophenol	1.68523	1.57524	0.010	6.5	20.0
Phenol-d5	2.38679	2.23318	0.010	6.4	20.0
Phenol-d6	2.38679	2.23318	0.010	6.4	20.0

ASX73 0562

Data File: /chem/HP18831.i/12jul18a.b/hg0769.d
Report Date: 07/19/2012 05:37

Lancaster Laboratories, Inc.
Shift Ending Continuing Calibration Check Report

Instrument ID: HP18831.i
Client ID: SSTD030
Lab Sample ID: STD1982
Sublist used: newall1.sub

Injection Date and Time: 19-JUL-2012 05:14
Initial Calibration Date(s): 17-JUL-2012 18-JUL-2012
Initial Calibration Time(s): 18:44 21:01
Method used: /chem/HP18831.i/12jul18a.b/m8270.m

Surrogate Standards	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
Nitrobenzene-d5	0.55055	0.52534	0.010	4.6	20.0
2-Fluorobiphenyl	1.33427	1.36606	0.010	-2.4	20.0
2,4,6-Tribromophenol	0.12782	0.14206	0.010	-11.1	20.0
Terphenyl-d14	0.66965	0.66968	0.010	0.0	20.0

ASX73 0583

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date: 07/19/12 Time: 06:46

Lab File ID: hg0811.d Init. Calib. Date(s): 07/17/12 07/17/12

Init. Calib. Times(s): 18:44 21:32

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
1,4-Dioxane	0.779	0.745	28.710	30.0	-4
N-Nitrosodimethylamine	1.281	1.303	30.490	30.0	2
Pyridine	2.137	2.131	29.920	30.0	0
2-Picoline	2.205	2.090	28.440	30.0	-5
N-Nitrosomethylethylamine	1.011	0.979	29.050	30.0	-3
Methyl methanesulfonate	1.154	1.114	28.970	30.0	-3
N-Nitrosodiethylamine	0.965	0.939	29.190	30.0	-3
Ethyl methanesulfonate	0.920	0.896	29.210	30.0	-3
Benzaldehyde	1.622	1.312	24.270	30.0	-19
Aniline	3.244	3.163	29.250	30.0	-3
* Phenol	2.822	2.803	29.800	30.0	-1*
bis(2-Chloroethyl)ether	2.100	2.009	28.700	30.0	-4
2-Chlorophenol	1.563	1.538	29.510	30.0	-2
1,3-Dichlorobenzene	1.577	1.520	28.920	30.0	-4
* 1,4-Dichlorobenzene	1.610	1.546	28.810	30.0	-4*
Benzyl alcohol	1.356	1.380	30.540	30.0	2
1,2-Dichlorobenzene	1.498	1.453	29.090	30.0	-3
2-Methylphenol	1.802	1.793	29.840	30.0	-1
2,2'-oxybis(1-Chloropropane)	2.460	2.187	26.670	30.0	-11
bis(2-Chloroisopropyl)ether	2.460	2.187	26.670	30.0	-11
N-Nitrosopyrrolidine	0.979	1.040	31.870	30.0	6
Acetophenone	2.746	2.687	29.350	30.0	-2
# N-Nitroso-di-n-propylamine	1.658	1.564	28.290	30.0	-6#
N-Nitrosomorpholine	1.169	1.125	28.870	30.0	-4
4-Methylphenol	1.952	2.062	31.690	30.0	6
o-Toluidine	2.900	2.891	29.900	30.0	0
Hexachloroethane	0.712	0.685	28.890	30.0	-4
Nitrobenzene	0.573	0.557	29.170	30.0	-3
N-Nitrosopiperidine	0.218	0.220	30.330	30.0	1
Isophorone	1.076	1.030	28.700	30.0	-4
* 2-Nitrophenol	0.203	0.203	30.010	30.0	0*
2,4-Dimethylphenol	0.476	0.478	30.110	30.0	0
O,O,O-triethylphosphorothioate	0.188	0.175	28.030	30.0	-7
bis(2-Chloroethoxy)methane	0.648	0.578	26.780	30.0	-11
Benzoic acid	0.367	0.384	41.840	40.0	5
* 2,4-Dichlorophenol	0.305	0.305	29.930	30.0	0*

7/19/2012

FORM VII SV-1

ASX73 0564

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date: 07/19/12 Time: 06:46

Lab File ID: hg0811.d Init. Calib. Date(s): 07/17/12 07/17/12

Init. Calib. Times(s): 18:44 21:32

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
1,2,4-Trichlorobenzene	0.338	0.328	29.200	30.0	-3
Naphthalene	1.140	1.091	28.730	30.0	-4
4-Chloroaniline	0.463	0.478	30.950	30.0	3
2,6-Dichlorophenol	0.294	0.297	30.370	30.0	1
Hexachloropropene	0.198	0.196	29.620	30.0	-1
* Hexachlorobutadiene	0.175	0.166	28.540	30.0	-5*
Caprolactam	0.161	0.189	35.110	30.0	17
N-Nitrosodi-n-butylamine	0.427	0.489	37.130	30.0	24
* 4-Chloro-3-methylphenol	0.418	0.444	31.850	30.0	6*
Safrole	0.291	0.291	29.990	30.0	0
2-Methylnaphthalene	0.696	0.696	30.020	30.0	0
1-Methylnaphthalene	0.681	0.678	29.860	30.0	0
# Hexachlorocyclopentadiene	0.247	0.234	28.500	30.0	-5#
1,2,4,5-Tetrachlorobenzene	0.533	0.511	28.770	30.0	-4
cis-Isosafrole	0.837	0.777	3.060	3.3	-7
* 2,4,6-Trichlorophenol	0.372	0.379	30.590	30.0	2*
2,4,5-Trichlorophenol	0.411	0.412	30.060	30.0	0
trans-Isosafrole	0.581	0.562	25.820	26.7	-3
Isosafrole	0.517	0.500	29.020	30.0	-3
1,1'-Biphenyl	1.587	1.570	29.680	30.0	-1
2-Chloronaphthalene	1.153	1.117	29.070	30.0	-3
Diphenyl ether	0.845	0.816	28.960	30.0	-3
2-Nitroaniline	0.398	0.431	32.460	30.0	8
1,4-Naphthoquinone	0.487	0.499	30.740	30.0	2
1,4-Dinitrobenzene	0.217	0.231	31.910	30.0	6
Dimethylphthalate	1.351	1.362	30.240	30.0	1
1,3-Dinitrobenzene	0.255	0.272	31.950	30.0	6
2,6-Dinitrotoluene	0.306	0.323	31.680	30.0	6
Acenaphthylene	1.750	1.746	29.920	30.0	0
3-Nitroaniline	0.349	0.387	33.240	30.0	11
* Acenaphthene	1.199	1.183	29.600	30.0	-1*
# 2,4-Dinitrophenol	0.186	0.210	45.190	40.0	13#
Pentachlorobenzene	0.429	0.421	29.460	30.0	-2
# 4-Nitrophenol	0.242	0.288	35.780	30.0	19#
Dibenzofuran	1.700	1.702	30.020	30.0	0
2,4-Dinitrotoluene	0.393	0.427	32.590	30.0	9

FORM VII SV-1

ASX73 0565

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date: 07/19/12 Time: 06:46

Lab File ID: hg0811.d Init. Calib. Date(s): 07/17/12 07/17/12

Init. Calib. Times(s): 18:44 21:32

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
1-Naphthylamine	1.221	1.329	32.650	30.0	9
2,3,4,6-Tetrachlorophenol	0.293	0.329	33.710	30.0	12
2-Naphthylamine	1.206	1.330	33.100	30.0	10
Diethylphthalate	1.398	1.418	30.440	30.0	1
Thionazin	0.287	0.278	29.060	30.0	-3
Fluorene	1.359	1.431	31.590	30.0	5
4-Chlorophenyl-phenylether	0.655	0.655	29.960	30.0	0
5-Nitro-o-toluidine	0.390	0.433	33.370	30.0	11
4-Nitroaniline	0.352	0.411	35.060	30.0	17
4,6-Dinitro-2-methylphenol	0.143	0.143	29.990	30.0	0
* N-Nitrosodiphenylamine (1)	0.707	0.669	28.380	30.0	-5*
1,2-Diphenylhydrazine	1.231	1.080	26.300	30.0	-12
Tetraethyldithiopyrophosphate	0.173	0.152	26.390	30.0	-12
1,3,5-Trinitrobenzene	0.085	0.093	31.050	30.0	4
Diallate (peak 1)	0.571	0.493	19.440	22.5	-14
Phorate	0.754	0.697	29.030	30.0	-3
Phenacetin	0.498	0.522	31.470	30.0	5
4-Bromophenyl-phenylether	0.201	0.189	28.090	30.0	-6
Diallate (peak 2)	0.350	0.310	6.660	7.5	-11
Hexachlorobenzene	0.198	0.185	28.080	30.0	-6
Dimethoate	0.404	0.461	34.210	30.0	14
Diallate TRANS/CIS	0.515	0.447	26.040	30.0	-13
Atrazine	0.189	0.180	28.540	30.0	-5
* Pentachlorophenol	0.127	0.129	30.370	30.0	1*
Pentachloronitrobenzene	0.091	0.088	29.070	30.0	-3
4-Aminobiphenyl	0.665	0.680	30.650	30.0	2
Pronamide	0.346	0.351	30.390	30.0	1
Dinoseb	0.194	0.203	29.750	30.0	-1
Phenanthrene	1.152	1.133	29.490	30.0	-2
Anthracene	1.139	1.160	30.550	30.0	2
Carbazole	1.086	1.133	31.310	30.0	4
Methyl parathion	0.291	0.315	32.430	30.0	8
Di-n-butylphthalate	1.380	1.370	29.770	30.0	-1
Parathion	0.186	0.196	31.680	30.0	6
4-Nitroquinoline-1-oxide	0.095	0.107	31.360	30.0	5
Isodrin	0.133	0.130	29.470	30.0	-2

(1) Cannot be Separated from Diphenylamine

FORM VII SV-1

ASX73 0566

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date: 07/19/12 Time: 06:46

Lab File ID: hg0811.d Init. Calib. Date(s): 07/17/12 07/17/12

Init. Calib. Times(s): 18:44 21:32

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
* Fluoranthene	1.143	1.262	33.110	30.0	10*
Benzidine	0.672	0.749	100.260	90.0	11
Pyrene	1.148	1.105	28.870	30.0	-4
p-Dimethylaminoazobenzene	0.203	0.219	32.380	30.0	8
Chlorobenzilate	0.325	0.341	31.430	30.0	5
3,3'-Dimethylbenzidine	0.593	0.671	33.960	30.0	13
Butylbenzylphthalate	0.498	0.520	31.330	30.0	4
2-Acetylaminofluorene	0.361	0.452	37.500	30.0	25
3,3'-Dichlorobenzidine	0.298	0.346	34.820	30.0	16
4,4'-Methylenebis(2-Chloroanil	0.151	0.178	35.260	30.0	18
Benzo(a)anthracene	0.842	0.927	33.020	30.0	10
Chrysene	0.849	0.926	32.730	30.0	9
bis(2-Ethylhexyl)phthalate	0.637	0.699	32.940	30.0	10
6-Methylchrysene	0.563	0.635	33.780	30.0	13
Dibenz(a,h)acridine	0.801	0.845	31.630	30.0	5
* Di-n-octylphthalate	1.793	1.727	28.890	30.0	-4*
Dibenz(a,j)acridine	0.868	0.880	30.420	30.0	1
7,12-Dimethylbenz[a]anthracene	0.572	0.549	28.780	30.0	-4
Quinoline	0.744	0.763	30.790	30.0	3
Benzo(b)fluoranthene	1.265	1.158	27.450	30.0	-8
Benzo(k)fluoranthene	1.253	1.249	29.900	30.0	0
* Benzo(a)pyrene	1.135	1.156	30.560	30.0	2*
3-Methylcholanthrene	0.556	0.584	31.530	30.0	5
NDPA as diphenylamine	0.714	0.669	28.130	30.0	-6
Indeno(1,2,3-cd)pyrene	1.097	1.183	32.350	30.0	8
Dibenz(a,h)anthracene	0.901	0.976	32.500	30.0	8
Benzo(g,h,i)perylene	0.926	0.999	32.350	30.0	8
Indene	2.838	2.682	28.350	30.0	-5
1-Chloronaphthalene	1.146	1.070	28.020	30.0	-7
2-Fluorophenol	1.685	1.620	28.840	30.0	-4
Phenol-d5	2.387	2.366	29.740	30.0	-1
Phenol-d6	2.387	2.366	29.740	30.0	-1
Nitrobenzene-d5	0.551	0.526	28.680	30.0	-4
2-Fluorobiphenyl	1.334	1.318	29.640	30.0	-1
2,4,6-Tribromophenol	0.128	0.144	33.780	30.0	13

FORM VII SV-1

ASX73 0567

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP18831 Calibration Date: 07/19/12 Time: 06:46

Lab File ID: hg0811.d Init. Calib. Date(s): 07/17/12 07/17/12

Init. Calib. Times(s): 18:44 21:32

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
Terphenyl-d14	0.670	0.654	29.300	30.0	-2
			Average %Drift:		6

FORM VII SV-1

ASX73 0568

Continuing Calibration
Internal Standard Area and Retention Time
Summary

Initial Calibration Standards:

/chem/HP18831.i/12jul17a.b/hg0581a.d
/chem/HP18831.i/12jul17a.b/hg0582.d
/chem/HP18831.i/12jul17a.b/hg0583.d
/chem/HP18831.i/12jul17a.b/hg0584.d
/chem/HP18831.i/12jul17a.b/hg0585.d
/chem/HP18831.i/12jul17a.b/hg0586.d **
/chem/HP18831.i/12jul17a.b/hg0587.d
/chem/HP18831.i/12jul17a.b/hg0588.d

** indicates the Mid Level Calibration Standard.

Mid Level Calibration Standard is used for comparison.

Current Continuing Calibration Standard:

/chem/HP18831.i/12jul19.b/hg0811.d

Area Summary

File ID:

Internal Standard Name	hg0811.d	ICAL Area	Low Limit	High Limit	In Spec
1,4-Dichlorobenzene-d4	77810	114346	57173	228692	Yes
Naphthalene-d8	322314	494790	247395	989580	Yes
Acenaphthene-d10	198876	307096	153548	614192	Yes
Phenanthrene-d10	367161	527067	263534	1054134	Yes
Pyrene-d10	432636	569214	284607	1138428	Yes
Perylene-d12	300578	296013	148006	592026	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

RT Summary

File ID:

Internal Standard Name	hg0811.d	ICAL RT	In Spec
1,4-Dichlorobenzene-d4	5.661	5.748	Yes
Naphthalene-d8	6.896	6.984	Yes
Acenaphthene-d10	8.610	8.697	Yes
Phenanthrene-d10	10.067	10.154	Yes
Pyrene-d10	11.454	11.547	Yes
Perylene-d12	14.118	14.223	Yes

A "No" indicates the retention time is greater than 30 seconds from the RT of the referenced standard.

Comments: 7-19-2012

Data File: /chem/HP18831.i/12jul19.b/hg0811a.d
Report Date: 07/20/2012 06:57

Lancaster Laboratories, Inc.
Shift Ending Continuing Calibration Check Report

BLS 1997 8/1/12

Instrument ID: HP18831.i
Client ID: SSTD030
Lab Sample ID: STD1982
Sublist used: newall1.sub

Injection Date and Time: 19-JUL-2012 17:46 17
Initial Calibration Date(s): 17-JUL-2012 ~~18~~ JUL-2012
Initial Calibration Time(s): 18:44 ~~21:01~~ 21:32
Method used: /chem/HP18831.i/12jul19.b/m8270.m

Target Compounds	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
1,4-Dioxane	0.77852	0.73928	0.010	5.0	20.0
N-Nitrosodimethylamine	1.28147	1.21749	0.010	5.0	20.0
Pyridine	2.13667	2.07278	0.010	3.0	20.0
2-Picoline	2.20468	2.07309	0.010	6.0	20.0
N-Nitrosomethylethylamine	1.01129	0.96306	0.010	4.8	20.0
Methyl methanesulfonate	1.15373	1.08656	0.010	5.8	20.0
N-Nitrosodiethylamine	0.96457	0.93248	0.010	3.3	20.0
Ethyl methanesulfonate	0.92042	0.87430	0.010	5.0	20.0
Benzaldehyde	1.62207	1.28809	0.010	20.6	20.0
Aniline	3.24375	3.11107	0.010	4.1	20.0
Phenol	2.82222	2.72267	0.010	3.5	20.0
bis(2-Chloroethyl)ether	2.10037	2.04465	0.010	2.7	20.0
2-Chlorophenol	1.56308	1.52886	0.010	2.2	20.0
1,3-Dichlorobenzene	1.57677	1.53512	0.010	2.6	20.0
1,4-Dichlorobenzene	1.60993	1.58479	0.010	1.6	20.0
Benzyl alcohol	1.35576	1.30250	0.010	3.9	20.0
1,2-Dichlorobenzene	1.49843	1.48260	0.010	1.1	20.0
2-Methylphenol	1.80241	1.73618	0.010	3.7	20.0
2,2'-oxybis(1-Chloropropane)	2.45955	2.19022	0.010	11.0	20.0
bis(2-Chloroisopropyl)ether	2.45955	2.19022	0.010	11.0	20.0
N-Nitrosopyrrolidine	0.97946	0.97119	0.010	0.8	20.0
Acetophenone	2.74623	2.68870	0.010	2.1	20.0
N-Nitroso-di-n-propylamine	1.65846	1.57747	0.010	4.9	20.0
N-Nitrosomorpholine	1.16948	1.05111	0.010	10.1	20.0
4-Methylphenol	1.95246	2.00185	0.010	-2.5	20.0
o-Toluidine	2.89987	2.80529	0.010	3.3	20.0
Hexachloroethane	0.71190	0.68735	0.010	3.4	20.0
Nitrobenzene	0.57315	0.54612	0.010	4.7	20.0
N-Nitrosopiperidine	0.21757	0.20947	0.010	3.7	20.0
Isophorone	1.07621	1.00282	0.010	6.8	20.0
2-Nitrophenol	0.20248	0.19695	0.010	2.7	20.0
2,4-Dimethylphenol	0.47608	0.45671	0.010	4.1	20.0
O,O,O-triethylphosphorothioate	0.18777	0.17806	0.010	5.2	20.0
bis(2-Chloroethoxy)methane	0.64790	0.57561	0.010	11.2	20.0
Benzoic acid	0.36706	0.06281	0.010	82.9	20.0
2,4-Dichlorophenol	0.30534	0.29586	0.010	3.1	20.0
1,2,4-Trichlorobenzene	0.33746	0.33026	0.010	2.1	20.0
Naphthalene	1.13950	1.08205	0.010	5.0	20.0
4-Chloroaniline	0.46289	0.45532	0.010	1.6	20.0
2,6-Dichlorophenol	0.29359	0.28759	0.010	2.0	20.0
Hexachloropropene	0.19827	0.18897	0.010	4.7	20.0
Hexachlorobutadiene	0.17464	0.16867	0.010	3.4	20.0
Caprolactam	0.16131	0.16228	0.010	-0.6	20.0
N-Nitrosodi-n-butylamine	30.000	26.270	0.010	12.4	20.0
4-Chloro-3-methylphenol	0.41843	0.40108	0.010	4.1	20.0
Safrole	0.29124	0.28464	0.010	2.3	20.0
2-Methylnaphthalene	0.69586	0.68637	0.010	1.4	20.0
1-Methylnaphthalene	0.68072	0.65446	0.010	3.9	20.0

7/20/2012

ASX73 0579

Data File: /chem/HP18831.i/12jul19.b/hg0811a.d
Report Date: 07/20/2012 06:57

Lancaster Laboratories, Inc.
Shift Ending Continuing Calibration Check Report

③ LB 1987 8/1/12

Instrument ID: HP18831.i
Client ID: SSTD030
Lab Sample ID: STD1982
Sublist used: newall1.sub

Injection Date and Time: 19-JUL-2012 17:46
Initial Calibration Date(s): 17-JUL-2012 ~~18~~ 17-JUL-2012
Initial Calibration Time(s): 18:44 ~~21:01~~ 21:32
Method used: /chem/HP18831.i/12jul19.b/m8270.m

Target Compounds	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
Hexachlorocyclopentadiene	0.24648	0.22136	0.010	10.2	20.0
1,2,4,5-Tetrachlorobenzene	0.53327	0.54415	0.010	-2.0	20.0
cis-Isosafrole	0.83725	0.79037	0.010	5.6	20.0
2,4,6-Trichlorophenol	0.37177	0.37499	0.010	-0.9	20.0
2,4,5-Trichlorophenol	0.41082	0.39890	0.010	2.9	20.0
trans-Isosafrole	0.58073	0.56578	0.010	2.6	20.0
Isosafrole	0.51685	0.50355	0.010	2.6	20.0
1,1'-Biphenyl	1.58705	1.61670	0.010	-1.9	20.0
2-Chloronaphthalene	1.15313	1.20056	0.010	-4.1	20.0
Diphenyl ether	0.84482	0.84061	0.010	0.5	20.0
2-Nitroaniline	0.39824	0.41798	0.010	-5.0	20.0
1,4-Naphthoquinone	0.48686	0.46383	0.010	4.7	20.0
1,4-Dinitrobenzene	0.21735	0.21070	0.010	3.1	20.0
Dimethylphthalate	1.35099	1.34601	0.010	0.4	20.0
1,3-Dinitrobenzene	0.25533	0.25764	0.010	-0.9	20.0
2,6-Dinitrotoluene	0.30549	0.30975	0.010	-1.4	20.0
Acenaphthylene	1.75035	1.76475	0.010	-0.8	20.0
3-Nitroaniline	0.34900	0.35957	0.010	-3.0	20.0
Acenaphthene	1.19853	1.18365	0.010	1.2	20.0
2,4-Dinitrophenol	0.18613	0.13450	0.010	27.7	20.0
Pentachlorobenzene	0.42910	0.42643	0.010	0.6	20.0
4-Nitrophenol	0.24148	0.22378	0.010	7.3	20.0
Dibenzofuran	1.70010	1.69130	0.010	0.5	20.0
2,4-Dinitrotoluene	0.39337	0.39334	0.010	0.0	20.0
1-Naphthylamine	1.22133	1.24127	0.010	-1.6	20.0
2,3,4,6-Tetrachlorophenol	0.29321	0.29307	0.010	0.0	20.0
2-Naphthylamine	1.20564	1.23072	0.010	-2.1	20.0
Diethylphthalate	1.39759	1.36973	0.010	2.0	20.0
Thionazin	0.28717	0.26959	0.010	6.1	20.0
Fluorene	1.35891	1.40387	0.010	-3.3	20.0
4-Chlorophenyl-phenylether	0.65553	0.66640	0.010	-1.7	20.0
5-Nitro-o-toluidine	0.38956	0.41388	0.010	-6.2	20.0
4-Nitroaniline	0.35182	0.35683	0.010	-1.4	20.0
4,6-Dinitro-2-methylphenol	0.14335	0.11779	0.010	17.8	20.0
N-Nitrosodiphenylamine	0.70712	0.70051	0.010	0.9	20.0
1,2-Diphenylhydrazine	1.23144	1.14444	0.010	7.1	20.0
Tetraethyldithiopyrophosphate	0.17266	0.15951	0.010	7.6	20.0
1,3,5-Trinitrobenzene	30.000	25.910	0.010	13.6	20.0
Diallate (peak 1)	0.57071	0.52167	0.010	8.6	20.0
Phorate	30.000	37.340	0.010	-24.5	20.0
Phenacetin	0.49777	0.48963	0.010	1.6	20.0
4-Bromophenyl-phenylether	0.20152	0.19632	0.010	2.6	20.0
Diallate (peak 2)	0.34950	0.32956	0.010	5.7	20.0
Hexachlorobenzene	0.19754	0.19267	0.010	2.5	20.0
Dimethoate	0.40412	0.40441	0.010	-0.1	20.0
Diallate TRANS/CIS	0.51541	0.47365	0.010	8.1	20.0
Atrazine	0.18940	0.17804	0.010	6.0	20.0
Pentachlorophenol	0.12695	0.09103	0.010	28.3	20.0

ASX73 9571

Data File: /chem/HP18831.i/12jul19.b/hg0811a.d
Report Date: 07/20/2012 06:57

③ US 1987 8/1/12

Lancaster Laboratories, Inc.
Shift Ending Continuing Calibration Check Report

Instrument ID: HP18831.i
Client ID: SSTD030
Lab Sample ID: STD1982
Sublist used: newall1.sub

Injection Date and Time: 19-JUL-2012 17:46 17
Initial Calibration Date(s): 17-JUL-2012 ~~18~~-JUL-2012
Initial Calibration Time(s): 18:44 ~~21:01~~ 21:32
Method used: /chem/HP18831.i/12jul19.b/m8270.m

Target Compounds	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
Pentachloronitrobenzene	0.09063	0.08565	0.010	5.5	20.0
4-Aminobiphenyl	0.66514	0.65403	0.010	1.7	20.0
Pronamide	0.34612	0.34622	0.010	0.0	20.0
Dinoseb	30.000	23.388	0.010	22.0	20.0
Phenanthrene	1.15232	1.11741	0.010	3.0	20.0
Anthracene	1.13865	1.15120	0.010	-1.1	20.0
Carbazole	1.08566	1.07857	0.010	0.7	20.0
Methyl parathion	0.29096	0.29103	0.010	0.0	20.0
Di-n-butylphthalate	1.38050	1.33258	0.010	3.5	20.0
Parathion	0.18575	0.17935	0.010	3.4	20.0
4-Nitroquinoline-1-oxide	30.000	16.518	0.010	44.9	20.0
Isodrin	0.13270	0.12648	0.010	4.7	20.0
Fluoranthene	1.14296	1.14724	0.010	-0.4	20.0
Benzidine	0.67194	0.62914	0.010	6.4	20.0
Pyrene	1.14785	1.10704	0.010	3.6	20.0
p-Dimethylaminoazobenzene	0.20311	0.21184	0.010	-4.3	20.0
Chlorobenzilate	0.32539	0.32518	0.010	0.1	20.0
3,3'-Dimethylbenzidine	0.59289	0.56713	0.010	4.3	20.0
Butylbenzylphthalate	0.49806	0.50050	0.010	-0.5	20.0
2-Acetylaminofluorene	0.36123	0.37306	0.010	-3.3	20.0
3,3'-Dichlorobenzidine	0.29838	0.30172	0.010	-1.1	20.0
4,4'-Methylenebis(2-Chloroanil	0.15132	0.15179	0.010	-0.3	20.0
Benzo(a)anthracene	0.84244	0.87344	0.010	-3.7	20.0
Chrysene	0.84911	0.84928	0.010	0.0	20.0
bis(2-Ethylhexyl)phthalate	0.63655	0.64743	0.010	-1.7	20.0
6-Methylchrysene	0.56353	0.56696	0.010	-0.6	20.0
Dibenz(a,h)acridine	0.80142	0.78744	0.010	1.7	20.0
Di-n-octylphthalate	1.79329	1.74276	0.010	2.8	20.0
Dibenz(a,j)acridine	0.86770	0.88356	0.010	-1.8	20.0
7,12-Dimethylbenz[a]anthracene	0.57212	0.55900	0.010	2.3	20.0
Benzo(b)fluoranthene	1.26552	1.21084	0.010	4.3	20.0
Quinoline	0.74364	0.70871	0.010	4.7	20.0
Benzo(k)fluoranthene	1.25260	1.25798	0.010	-0.4	20.0
Benzo(a)pyrene	1.13482	1.15477	0.010	-1.8	20.0
3-Methylcholanthrene	0.55570	0.54636	0.010	1.7	20.0
NDPA as diphenylamine	0.71351	0.70051	0.010	1.8	20.0
Indeno(1,2,3-cd)pyrene	1.09692	1.12953	0.010	-3.0	20.0
Dibenz(a,h)anthracene	0.90112	0.92647	0.010	-2.8	20.0
Indene	2.83774	2.67508	0.010	5.7	20.0
Benzo(g,h,i)perylene	0.92622	0.95483	0.010	-3.1	20.0
1-Chloronaphthalene	1.14559	1.06885	0.010	6.7	20.0

Surrogate Standards	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
2-Fluorophenol	1.68523	1.62831	0.010	3.4	20.0
Phenol-d5	2.38679	2.26488	0.010	5.1	20.0
Phenol-d6	2.38679	2.26488	0.010	5.1	20.0

ASX73 0572

Data File: /chem/HP18831.i/12jul19.b/hg0811a.d
Report Date: 07/20/2012 06:57

BJS 1957 8/1/12

Lancaster Laboratories, Inc.
Shift Ending Continuing Calibration Check Report

Instrument ID: HP18831.i
Client ID: SSTD030
Lab Sample ID: STD1982
Sublist used: newall1.sub

Injection Date and Time: 19-JUL-2012 17:46
Initial Calibration Date(s): 17-JUL-2012 ~~18~~ 17-JUL-2012
Initial Calibration Time(s): 18:44 ~~21:01~~ 21:32
Method used: /chem/HP18831.i/12jul19.b/m8270.m

Surrogate Standards	ICAL Avg. RRF	SECC RRF	Min. RRF	% Diff.	Max. %Diff.
Nitrobenzene-d5	0.55055	0.51691	0.010	6.1	20.0
2-Fluorobiphenyl	1.33427	1.30987	0.010	1.8	20.0
2,4,6-Tribromophenol	0.12782	0.13448	0.010	-5.2	20.0
Terphenyl-d14	0.66965	0.66266	0.010	1.0	20.0

ASX73 0573

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

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

Lab File ID (Standard): hg0741.d Date Analyzed: 07/18/12

Instrument ID: HP18831 Time Analyzed: 18:41

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	118020	5.684	501337	6.920	296645	8.639
	UPPER LIMIT	236040	6.184	1002674	7.420	593290	9.139
	LOWER LIMIT	59010	5.184	250669	6.420	148323	8.139
	LLI SAMPLE NO.						
01	SBLKLC196	123483	5.684	506136	6.920	303618	8.633
02	196LCLCS	127497	5.684	528291	6.925	306529	8.639
03	SBLKWF198	110093	5.684	452671	6.920	269836	8.633
04	198WFLCS	122564	5.684	506765	6.920	299038	8.639
05	198WFLCSD	119860	5.684	499807	6.920	290461	8.639
06	SBLKWB200	105437	5.684	422524	6.920	251411	8.633
07	200WBLCS	122906	5.684	501011	6.920	308027	8.633
08	200WBLCSD	130277	5.684	533205	6.920	319127	8.633
09	SBLKLH199	114460	5.684	461012	6.920	277488	8.633
10	199LHLCS	127923	5.684	526310	6.920	310664	8.639
11	6718776	108192	5.684	451225	6.920	255433	8.633
12	6719598	110160	5.684	424310	6.920	202007	8.680
13	6716262	100682	5.684	405887	6.920	243880	8.633
14	6716262MS	109602	5.684	443178	6.920	260000	8.633
15	6716262MSD	116719	5.684	460505	6.920	265682	8.633
16	6716263	109932	5.684	401366	6.920	242728	8.633
17	6721497	105814	5.684	426641	6.920	245341	8.633

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

ASX73 0574

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

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

Lab File ID (Standard): hg0741.d Date Analyzed: 07/18/12

Instrument ID: HP18831 Time Analyzed: 18:41

		IS4(PHN)		IS5(PYR)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	498473	10.096	551943	11.484	361995	14.153
	UPPER LIMIT	996946	10.596	1103886	11.984	723990	14.653
	LOWER LIMIT	249237	9.596	275972	10.984	180998	13.653
	LLI SAMPLE NO.						
01	SBLKLC196	558167	10.090	621077	11.483	403238	14.153
02	196LCLCS	501366	10.096	549537	11.489	331088	14.153
03	SBLKWF198	468639	10.090	513671	11.483	329757	14.147
04	198WFLCS	497631	10.096	543341	11.489	328996	14.153
05	198WFLCSD	480997	10.096	510472	11.489	311913	14.153
06	SBLKWB200	437240	10.091	482224	11.478	299650	14.147
07	200WBLCS	540293	10.091	608831	11.484	387647	14.153
08	200WBLCSD	555849	10.090	616839	11.483	396017	14.147
09	SBLKLH199	510963	10.091	574878	11.478	353401	14.147
10	199LHLCS	523743	10.090	574151	11.483	342083	14.153
11	6718776	417411	10.091	416852	11.484	282998	14.147
12	6719598	348166	10.090	336307	11.524	256635	14.171
13	6716262	437238	10.090	489646	11.478	301871	14.147
14	6716262MS	453963	10.090	494449	11.483	290875	14.147
15	6716262MSD	450919	10.091	484456	11.484	281261	14.147
16	6716263	357670	10.091	338494	11.489	212142	14.153
17	6721497	403424	10.090	401546	11.483	220912	14.153

IS4 (PHN) = Phenanthrene-d10
IS5 (PYR) = Pyrene-d10
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

ASX73 0575

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

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

Lab File ID (Standard): hg0741.d Date Analyzed: 07/18/12

Instrument ID: HP18831 Time Analyzed: 18:41

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	118020	5.684	501337	6.920	296645	8.639
	UPPER LIMIT	236040	6.184	1002674	7.420	593290	9.139
	LOWER LIMIT	59010	5.184	250669	6.420	148323	8.139
	LLI SAMPLE NO.						
18	6721497MS	104644	5.684	413772	6.920	234430	8.633
19	6721497MSD	106767	5.684	427509	6.920	243813	8.639
20	6721503	107698	5.684	434262	6.920	245724	8.639
21	STD1982	109989	5.684	451105	6.926	262184	8.639

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

ASX73 0576

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

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

Lab File ID (Standard): hg0741.d Date Analyzed: 07/18/12

Instrument ID: HP18831 Time Analyzed: 18:41

		IS4(PHN) AREA #	RT #	IS5(PYR) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	498473	10.096	551943	11.484	361995	14.153
	UPPER LIMIT	996946	10.596	1103886	11.984	723990	14.653
	LOWER LIMIT	249237	9.596	275972	10.984	180998	13.653
	LLI SAMPLE NO.						
18	6721497MS	375734	10.091	356456	11.484	202397	14.153
19	6721497MSD	395440	10.091	379528	11.484	209825	14.159
20	6721503	411856	10.090	408870	11.484	208002	14.159
21	STD1982	462852	10.096	494852	11.489	268271	14.153

IS4 (PHN) = Phenanthrene-d10
IS5 (PYR) = Pyrene-d10
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

ASX73 0577

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

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

Lab File ID (Standard): hg0811.d Date Analyzed: 07/19/12

Instrument ID: HP18831 Time Analyzed: 06:46

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	77810	5.661	322314	6.896	198876	8.610
	UPPER LIMIT	155620	6.161	644628	7.396	397752	9.110
	LOWER LIMIT	38905	5.161	161157	6.396	99438	8.110
	LLI SAMPLE NO.						
01	SBLKWC200	82078	5.661	331277	6.891	198029	8.610
02	200WCLCS	88663	5.661	361139	6.896	218770	8.610
03	200WCLCSD	85347	5.661	344465	6.896	203518	8.610
04	SBLKWF200	82522	5.661	332539	6.891	199987	8.610
05	200WFLCS	100750	5.661	406391	6.896	245840	8.616
06	6720421	85042	5.661	342073	6.896	199438	8.610
07	6720422	92157	5.661	361196	6.897	242316	8.616
08	6720423	82481	5.666	333244	6.902	190642	8.616
09	6720424	80891	5.667	328865	6.902	198405	8.616
10	6720425	81451	5.666	332735	6.902	191751	8.616
11	6720426	86947	5.667	346951	6.902	198798	8.616
12	6720427	74361	5.667	302538	6.902	185901	8.616
13	6720428	75811	5.667	292598	6.896	170182	8.616
14	6720430	82793	5.667	305166	6.902	221361	8.622
15	6720431	76862	5.667	310962	6.896	190499	8.616
16	6721504	75532	5.667	295655	6.896	175257	8.616
17	6722557	80629	5.661	319689	6.896	186739	8.616

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

ASX73 0578

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

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

Lab File ID (Standard): hg0811.d Date Analyzed: 07/19/12

Instrument ID: HP18831 Time Analyzed: 06:46

		IS4(PHN)		IS5(PYR)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	367161	10.067	432636	11.454	300578	14.118
	UPPER LIMIT	734322	10.567	865272	11.954	601156	14.618
	LOWER LIMIT	183581	9.567	216318	10.954	150289	13.618
	LLI SAMPLE NO.						
01	SBLKWC200	358333	10.061	419238	11.454	303987	14.112
02	200WCLCS	392028	10.067	434069	11.454	275049	14.118
03	200WCLCSD	375005	10.067	420355	11.454	278697	14.118
04	SBLKWF200	377967	10.061	445396	11.455	337396	14.118
05	200WFLCS	435729	10.067	489497	11.460	321526	14.124
06	6720421	346211	10.067	381368	11.460	261639	14.124
07	6720422	287736	10.079	308378	11.484	215555	14.171
08	6720423	309099	10.073	328797	11.466	207521	14.135
09	6720424	369201	10.073	418947	11.466	260498	14.130
10	6720425	322272	10.073	338924	11.466	215605	14.141
11	6720426	308710	10.073	331498	11.472	212846	14.136
12	6720427	327900	10.073	352741	11.466	210021	14.136
13	6720428	309017	10.073	347446	11.466	221286	14.130
14	6720430	268173	10.091	302578	11.484	218758	14.141
15	6720431	358436	10.073	396577	11.466	228540	14.130
16	6721504	315121	10.073	348934	11.466	213673	14.130
17	6722557	349771	10.067	380765	11.460	235661	14.130

IS4 (PHN) = Phenanthrene-d10
IS5 (PYR) = Pyrene-d10
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

ASX73 0579

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

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

Lab File ID (Standard): hg0811.d Date Analyzed: 07/19/12

Instrument ID: HP18831 Time Analyzed: 06:46

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	77810	5.661	322314	6.896	198876	8.610
	UPPER LIMIT	155620	6.161	644628	7.396	397752	9.110
	LOWER LIMIT	38905	5.161	161157	6.396	99438	8.110
	LLI SAMPLE NO.						
18	6722951	85009	5.661	340359	6.896	207151	8.616
19	6722953	84312	5.661	336897	6.896	196146	8.616
20	6722955	80674	5.661	320087	6.897	190680	8.616
21	6722957	85046	5.661	348881	6.896	211599	8.616
22	6722959	80573	5.661	313352	6.896	178945	8.616
23	6722961	81765	5.661	322798	6.896	190592	8.616
24	6722963	75600	5.661	304060	6.896	179502	8.616
25	6722965	87518	5.661	354751	6.896	211151	8.616
26	6716334	88777	5.661	365476	6.896	220694	8.616
27	6716334MS	102061	5.667	419459	6.902	254503	8.616
28	6716334MSD	90598	5.667	373973	6.902	221362	8.616
29	STD1982	102490	5.661	424618	6.902	242578	8.616

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

ASX73 0580

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

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

Lab File ID (Standard): hg0811.d Date Analyzed: 07/19/12

Instrument ID: HP18831 Time Analyzed: 06:46

		IS4(PHN) AREA #	RT #	IS5(PYR) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	367161	10.067	432636	11.454	300578	14.118
	UPPER LIMIT	734322	10.567	865272	11.954	601156	14.618
	LOWER LIMIT	183581	9.567	216318	10.954	150289	13.618
	LLI SAMPLE NO.						
18	6722951	392847	10.073	439650	11.460	274648	14.130
19	6722953	370075	10.067	416556	11.460	281687	14.130
20	6722955	357807	10.067	394353	11.460	240356	14.130
21	6722957	394151	10.067	435880	11.460	278394	14.130
22	6722959	308589	10.067	345035	11.460	218922	14.124
23	6722961	346673	10.067	383693	11.460	239455	14.124
24	6722963	333769	10.067	371331	11.460	239179	14.130
25	6722965	384353	10.067	418944	11.460	253508	14.124
26	6716334	401076	10.067	439964	11.460	273789	14.124
27	6716334MS	458872	10.073	498672	11.466	279228	14.130
28	6716334MSD	390131	10.073	441236	11.466	257983	14.130
29	STD1982	412868	10.073	456542	11.460	275232	14.130

IS4 (PHN) = Phenanthrene-d10
IS5 (PYR) = Pyrene-d10
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

ASX73 0581

Sample Data

ASX73 0582

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LOQ/MDL Summary
GC/MS Semivolatiles

SDG: ASX73

Fraction: Semivolatiles by GC/MS

10727: TCL 8270 (microwave) Analyte Name	Default MDL	Default LOQ	Units
Phenol	17	33	ug/kg
bis(2-Chloroethyl)ether	17	33	ug/kg
2-Chlorophenol	17	33	ug/kg
1,3-Dichlorobenzene	17	33	ug/kg
1,4-Dichlorobenzene	17	33	ug/kg
1,2-Dichlorobenzene	17	33	ug/kg
2-Methylphenol	17	33	ug/kg
4-Methylphenol	17	33	ug/kg
N-Nitroso-di-n-propylamine	17	33	ug/kg
Hexachloroethane	33	170	ug/kg
Nitrobenzene	17	33	ug/kg
Isophorone	17	33	ug/kg
2-Nitrophenol	17	33	ug/kg
2,4-Dimethylphenol	17	33	ug/kg
2,2'-oxybis(1-Chloropropane)	17	33	ug/kg
bis(2-Chloroethoxy)methane	17	33	ug/kg
2,4-Dichlorophenol	17	33	ug/kg
1,2,4-Trichlorobenzene	17	33	ug/kg
Naphthalene	3	17	ug/kg
4-Chloroaniline	17	33	ug/kg
Hexachlorobutadiene	17	33	ug/kg
4-Chloro-3-methylphenol	17	33	ug/kg
2-Methylnaphthalene	3	17	ug/kg
Hexachlorocyclopentadiene	170	500	ug/kg
2,4,6-Trichlorophenol	17	33	ug/kg
2,4,5-Trichlorophenol	17	33	ug/kg
2-Chloronaphthalene	7	33	ug/kg
2-Nitroaniline	17	33	ug/kg
Dimethylphthalate	67	170	ug/kg
2,6-Dinitrotoluene	17	33	ug/kg
Acenaphthylene	3	17	ug/kg
3-Nitroaniline	67	170	ug/kg
Acenaphthene	3	17	ug/kg
2,4-Dinitrophenol	300	1,000	ug/kg
4-Nitrophenol	170	500	ug/kg
2,4-Dinitrotoluene	67	170	ug/kg
Dibenzofuran	17	33	ug/kg
Diethylphthalate	67	170	ug/kg
Fluorene	3	17	ug/kg
4-Chlorophenyl-phenylether	17	33	ug/kg
4-Nitroaniline	67	170	ug/kg
4,6-Dinitro-2-methylphenol	170	500	ug/kg
N-Nitrosodiphenylamine	17	33	ug/kg
4-Bromophenyl-phenylether	17	33	ug/kg
Hexachlorobenzene	3	17	ug/kg
Pentachlorophenol	33	170	ug/kg
Phenanthrene	3	17	ug/kg

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LOQ/MDL Summary
GC/MS Semivolatiles

SDG: ASX73

Fraction: Semivolatiles by GC/MS

10727: TCL 8270 (microwave) Analyte Name	Default MDL	Default LOQ	Units
Anthracene	3	17	ug/kg
Carbazole	17	33	ug/kg
Di-n-butylphthalate	67	170	ug/kg
Fluoranthene	3	17	ug/kg
Pyrene	3	17	ug/kg
Butylbenzylphthalate	67	170	ug/kg
bis(2-Ethylhexyl)phthalate	67	170	ug/kg
3,3'-Dichlorobenzidine	100	330	ug/kg
Benzo(a)anthracene	3	17	ug/kg
Chrysene	3	17	ug/kg
Di-n-octylphthalate	67	170	ug/kg
Benzo(b)fluoranthene	3	17	ug/kg
Benzo(k)fluoranthene	3	17	ug/kg
Benzo(a)pyrene	3	17	ug/kg
Indeno(1,2,3-cd)pyrene	3	17	ug/kg
Dibenz(a,h)anthracene	3	17	ug/kg
Benzo(g,h,i)perylene	3	17	ug/kg

04678: TCL SW846 Semivolatiles/Waters Analyte Name	Default MDL	Default LOQ	Units
Phenol	0.5	1	ug/l
bis(2-Chloroethyl)ether	0.5	1	ug/l
2-Chlorophenol	0.5	1	ug/l
1,3-Dichlorobenzene	0.5	1	ug/l
1,4-Dichlorobenzene	0.5	1	ug/l
1,2-Dichlorobenzene	0.5	1	ug/l
2-Methylphenol	0.5	1	ug/l
2,2'-oxybis(1-Chloropropane)	0.5	1	ug/l
4-Methylphenol	0.5	1	ug/l
N-Nitroso-di-n-propylamine	0.5	1	ug/l
Hexachloroethane	1	5	ug/l
Nitrobenzene	0.5	1	ug/l
Isophorone	0.5	1	ug/l
2-Nitrophenol	0.5	1	ug/l
2,4-Dimethylphenol	0.5	1	ug/l
bis(2-Chloroethoxy)methane	0.5	1	ug/l
2,4-Dichlorophenol	0.5	1	ug/l
1,2,4-Trichlorobenzene	0.5	1	ug/l
Naphthalene	0.1	0.5	ug/l
4-Chloroaniline	0.5	1	ug/l
Hexachlorobutadiene	0.5	1	ug/l
4-Chloro-3-methylphenol	0.5	1	ug/l
2-Methylnaphthalene	0.1	0.5	ug/l
Hexachlorocyclopentadiene	5	15	ug/l
2,4,6-Trichlorophenol	0.5	1	ug/l
2,4,5-Trichlorophenol	0.5	1	ug/l
2-Chloronaphthalene	0.4	1	ug/l

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LOQ/MDL Summary
GC/MS Semivolatiles

SDG: ASX73

Fraction: Semivolatiles by GC/MS

04678: TCL SW846 Semivolatiles/Waters Analyte Name	Default MDL	Default LOQ	Units
2-Nitroaniline	0.5	1	ug/l
Dimethylphthalate	2	5	ug/l
2,6-Dinitrotoluene	0.5	1	ug/l
Acenaphthylene	0.1	0.5	ug/l
3-Nitroaniline	0.5	1	ug/l
Acenaphthene	0.1	0.5	ug/l
2,4-Dinitrophenol	10	30	ug/l
4-Nitrophenol	10	30	ug/l
2,4-Dinitrotoluene	1	5	ug/l
Dibenzofuran	0.5	1	ug/l
Diethylphthalate	2	5	ug/l
Fluorene	0.1	0.5	ug/l
4-Chlorophenyl-phenylether	0.5	1	ug/l
4-Nitroaniline	0.5	1	ug/l
4,6-Dinitro-2-methylphenol	5	15	ug/l
N-Nitrosodiphenylamine	0.5	1	ug/l
4-Bromophenyl-phenylether	0.5	1	ug/l
Hexachlorobenzene	0.1	0.5	ug/l
Pentachlorophenol	1	5	ug/l
Phenanthrene	0.1	0.5	ug/l
Anthracene	0.1	0.5	ug/l
Carbazole	0.5	1	ug/l
Di-n-butylphthalate	2	5	ug/l
Fluoranthene	0.1	0.5	ug/l
Pyrene	0.1	0.5	ug/l
Butylbenzylphthalate	2	5	ug/l
bis(2-Ethylhexyl)phthalate	2	5	ug/l
3,3'-Dichlorobenzidine	2	5	ug/l
Benzo(a)anthracene	0.1	0.5	ug/l
Chrysene	0.1	0.5	ug/l
Di-n-octylphthalate	2	5	ug/l
Benzo(b)fluoranthene	0.1	0.5	ug/l
Benzo(k)fluoranthene	0.1	0.5	ug/l
Benzo(a)pyrene	0.1	0.5	ug/l
Indeno(1,2,3-cd)pyrene	0.1	0.5	ug/l
Dibenz(a,h)anthracene	0.1	0.5	ug/l
Benzo(g,h,i)perylene	0.1	0.5	ug/l

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6721497

Data file: /chem/HP18831.i/12jul18a.b/hg0765.d
Data file Sample Info. Line: XXXXX;6721497;
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Injection date and time: **19-JUL-2012 03:44**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 5 GpcCleanup (No = 0, Yes = 1): 0 Unit Correction Factor (Uf): 1
Final Extract Volume (Vt): 1000 ul Volume Injected (Vi): 1 ul Sample Weight (Ws): 30.5 g

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	5.684	(0.000)	600	152	105814	(-10)	20.00	
52) Naphthalene-d8	6.920	(0.000)	812	136	426641	(-15)	20.00	
98) Acenaphthene-d10	8.633	(0.006)	1106	164	245341	(-17)	20.00	
135) Phenanthrene-d10	10.090	(0.006)	1356	188	403424	(-19)	20.00	
167) Pyrene-d10	11.483	(0.000)	1595	212	401546	(-27)	20.00	
175) Perylene-d12	14.153	(0.000)	2053	264	220912	(-39)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
9) 2-Fluorophenol	(1)	4.407	(-0.001)	112	280676	31.480	79%		48 - 136
15) Phenol-d6	(1)	5.340	(0.001)	99	385187	30.503	76%		42 - 130
38) Nitrobenzene-d5	(2)	6.220	(0.001)	82	178580	15.206	76%		45 - 123
78) 2-Fluorobiphenyl	(3)	7.980	(0.000)	172	271628	16.595	83%		56 - 121
119) 2,4,6-Tribromophenol	(3)	9.408	(0.000)	330	50049	31.918	80%		28 - 139
156) Terphenyl-d14	(5)	11.664	(0.000)	244	229445	17.066	85%		36 - 135

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
16) Phenol	(1)				Not Detected					0.5
18) bis(2-Chloroethyl)ether	(1)				Not Detected					0.5
19) 2-Chlorophenol	(1)				Not Detected					0.5
20) 1,3-Dichlorobenzene	(1)				Not Detected					0.5
22) 1,4-Dichlorobenzene	(1)				Not Detected					0.5
25) 1,2-Dichlorobenzene	(1)				Not Detected					0.5
26) 2-Methylphenol	(1)				Not Detected					0.5
27) 2,2'-oxybis(1-Chloropropane)	(1)				Not Detected					0.5
31) N-Nitroso-di-n-propylamine	(1)				Not Detected					0.5
33) 4-Methylphenol	(1)				Not Detected					0.5
37) Hexachloroethane	(1)				Not Detected					1
39) Nitrobenzene	(2)				Not Detected					0.5
41) Isophorone	(2)				Not Detected					0.5
42) 2-Nitrophenol	(2)				Not Detected					0.5
44) 2,4-Dimethylphenol	(2)				Not Detected					0.5
46) bis(2-Chloroethoxy)methane	(2)				Not Detected					0.5
49) 2,4-Dichlorophenol	(2)				Not Detected					0.5
50) 1,2,4-Trichlorobenzene	(2)				Not Detected					0.5
53) Naphthalene	(2)	6.937	(0.000)	128	12841	0.528	86.60			0.1
56) 4-Chloroaniline	(2)				Not Detected					0.5
60) Hexachlorobutadiene	(2)				Not Detected					0.5
68) 4-Chloro-3-methylphenol	(2)				Not Detected					0.5
70) 2-Methylnaphthalene	(2)	7.619	(-0.000)	142	11175	0.753	123.41			0.1
72) Hexachlorocyclopentadiene	(3)				Not Detected					5
75) 2,4,6-Trichlorophenol	(3)				Not Detected					0.5
77) 2,4,5-Trichlorophenol	(3)				Not Detected					0.5
84) 2-Chloronaphthalene	(3)				Not Detected					0.2

Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23. Target 3.5 esignature user ID: msw02109

ASX73 0586

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6721497

Data file: /chem/HP18831.i/12jul18a.b/hg0765.d
Data file Sample Info. Line: XXXXX;6721497;
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Injection date and time: **19-JUL-2012 03:44**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 5 GpcCleanup (No = 0, Yes = 1): 0 Unit Correction Factor (Uf): 1
Final Extract Volume (Vt): 1000 ul Volume Injected (Vi): 1 ul Sample Weight (Ws): 30.5 g

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
89) 2-Nitroaniline	(3)			Not Detected					0.5
92) Dimethylphthalate	(3)			Not Detected					2
94) 2,6-Dinitrotoluene	(3)			Not Detected					0.5
95) Acenaphthylene	(3)	8.493(0.000)	152	4952M	0.231	37.81			0.1
97) 3-Nitroaniline	(3)			Not Detected					2
99) Acenaphthene	(3)			Not Detected					0.1
100) 2,4-Dinitrophenol	(3)			Not Detected					10
103) 4-Nitrophenol	(3)			Not Detected					5
104) Dibenzofuran	(3)			Not Detected					0.5
105) 2,4-Dinitrotoluene	(3)			Not Detected					2
109) Diethylphthalate	(3)			Not Detected					2
111) Fluorene	(3)			Not Detected					0.1
112) 4-Chlorophenyl-phenylether	(3)			Not Detected					0.5
114) 4-Nitroaniline	(3)			Not Detected					2
115) 4,6-Dinitro-2-methylphenol	(4)			Not Detected					5
117) N-Nitrosodiphenylamine	(4)			Not Detected					0.5
125) 4-Bromophenyl-phenylether	(4)			Not Detected					0.5
127) Hexachlorobenzene	(4)			Not Detected					0.1
131) Pentachlorophenol	(4)			Not Detected					1
137) Phenanthrene	(4)	10.114(-0.000)	178	19077	0.821	134.55			0.1
138) Anthracene	(4)	10.160(-0.000)	178	6985	0.304	49.86			0.1
140) Carbazole	(4)			Not Detected					0.5
142) Di-n-butylphthalate	(4)			Not Detected					2
147) Fluoranthene	(4)	11.279(-0.000)	202	21323	0.925	151.62			0.1
154) Pyrene	(5)	11.501(0.000)	202	21041	0.913	149.67			0.1
161) Butylbenzylphthalate	(5)			Not Detected					2
164) 3,3'-Dichlorobenzidine	(5)			Not Detected					3
166) Benzo(a)anthracene	(5)	12.690(0.001)	228	10196	0.603	98.82			0.1
168) Chrysene	(5)	12.731(0.000)	228	14829M	0.870	142.60			0.1
169) bis(2-Ethylhexyl)phthalate	(5)			Not Detected					2
170) Di-n-octylphthalate	(6)			Not Detected					2
172) Benzo(b)fluoranthene	(6)	13.780(0.000)	252	19400M	1.388	227.52			0.1
173) Benzo(k)fluoranthene	(6)	13.803(0.000)	252	5963M	0.431	70.66			0.1
174) Benzo(a)pyrene	(6)	14.095(0.000)	252	8554M	0.682	111.88			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	15.313(0.001)	276	7975M	0.658	107.91			0.1
178) Dibenz(a,h)anthracene	(6)	15.336(0.001)	278	1757M	0.177	28.94			0.1
179) Benzo(g,h,i)perylene	(6)	15.651(0.000)	276	7686M	0.751	123.17			0.1

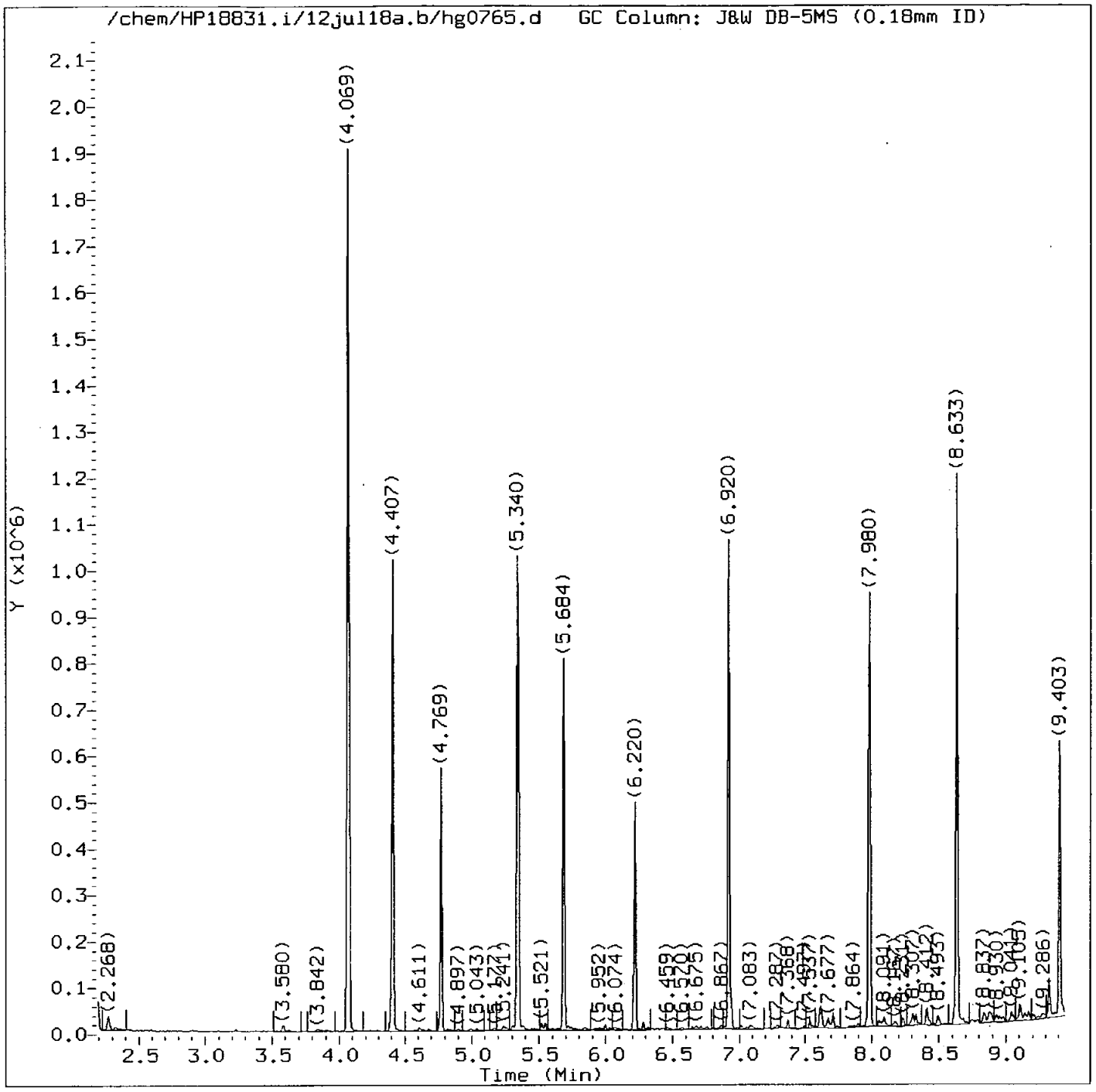
M = Compound was manually integrated.

Total number of targets = 64

Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23. Target 3.5 esignature user ID: msw02109

Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:03. Parallax ID: ild00415

ASX73 0587



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

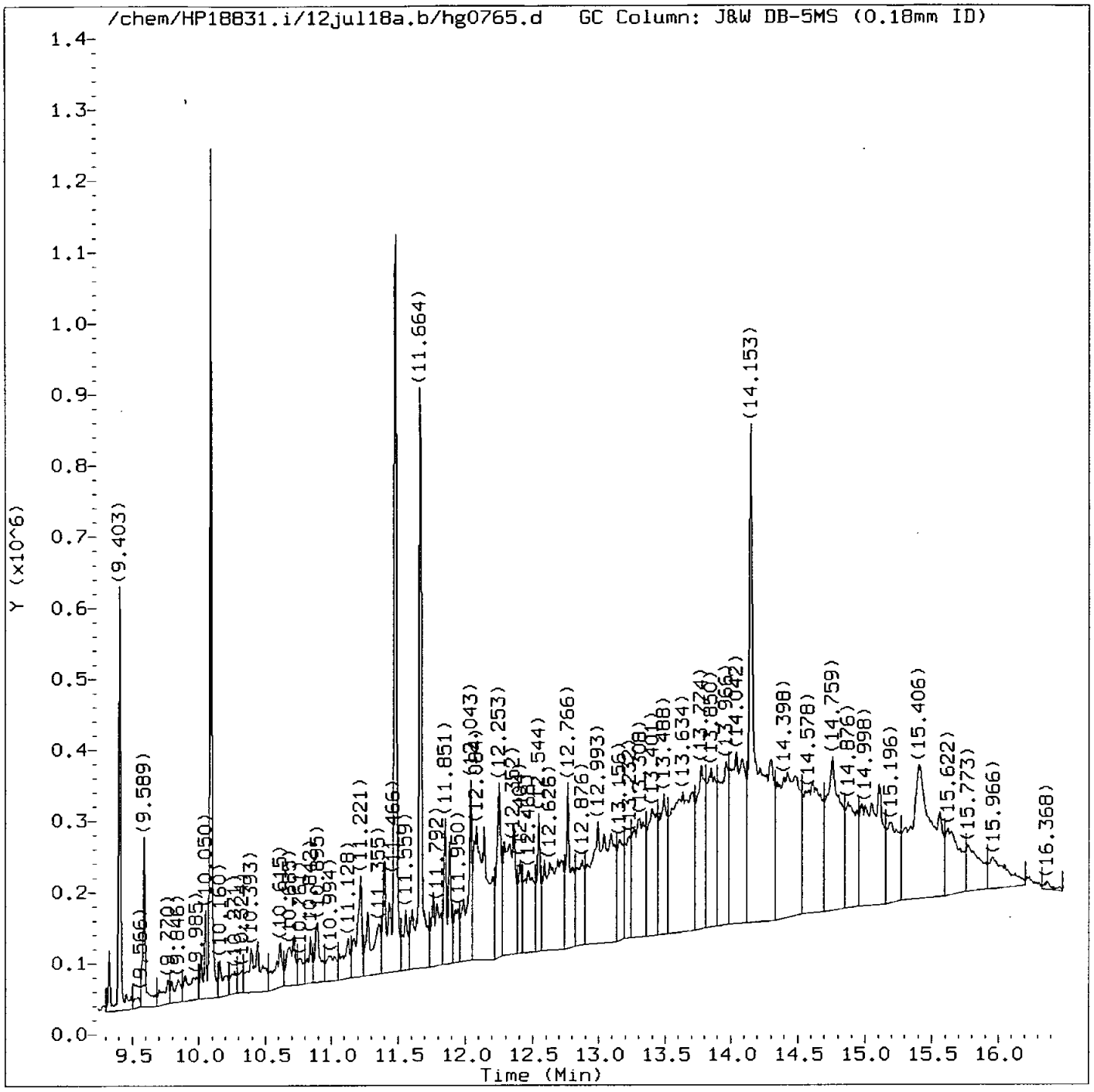
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Digitally signed by Matthew S. Woods
on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

ASX73 9588



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Digitally signed by Matthew S. Woods
on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

ASX73 9589

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.407	112	280676	31.480
15)$Phenol-d6	(1)	5.340	99	385187	30.503
21)*1,4-Dichlorobenzene-d4	(1)	5.684	152	105814	20.000
38)$Nitrobenzene-d5	(2)	6.220	82	178580	15.206
52)*Naphthalene-d8	(2)	6.920	136	426641	20.000
53) Naphthalene	(2)	6.937	128	12841	0.528
70) 2-Methylnaphthalene	(2)	7.619	142	11175	0.753
78)$2-Fluorobiphenyl	(3)	7.980	172	271628	16.595
95) Acenaphthylene	(3)	8.493	152	4952M	0.231
98)*Acenaphthene-d10	(3)	8.633	164	245341	20.000
119)$2,4,6-Tribromophenol	(3)	9.408	330	50049	31.918
135)*Phenanthrene-d10	(4)	10.090	188	403424	20.000
137) Phenanthrene	(4)	10.114	178	19077	0.821
138) Anthracene	(4)	10.160	178	6985	0.304
147) Fluoranthene	(4)	11.279	202	21323	0.925
167)*Pyrene-d10	(5)	11.483	212	401546	20.000
154) Pyrene	(5)	11.501	202	21041	0.913
156)$Terphenyl-d14	(5)	11.664	244	229445	17.066
166) Benzo(a)anthracene	(5)	12.690	228	10196	0.603
168) Chrysene	(5)	12.731	228	14829M	0.870
172) Benzo(b)fluoranthene	(6)	13.780	252	19400M	1.388
173) Benzo(k)fluoranthene	(6)	13.803	252	5963M	0.431
174) Benzo(a)pyrene	(6)	14.095	252	8554M	0.682
175)*Perylene-d12	(6)	14.153	264	220912	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	15.313	276	7975M	0.658
178) Dibenz(a,h)anthracene	(6)	15.336	278	1757M	0.177
179) Benzo(g,h,i)perylene	(6)	15.651	276	7686M	0.751

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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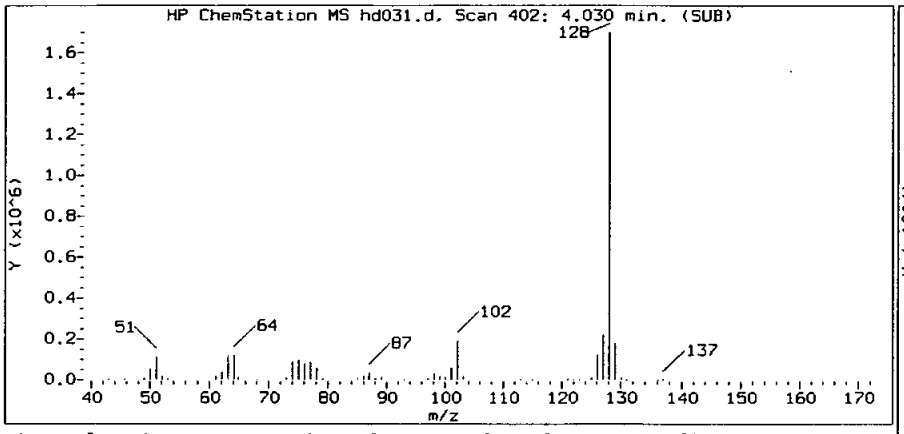
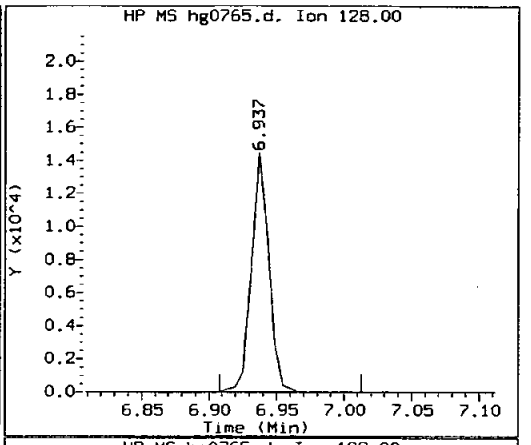
on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

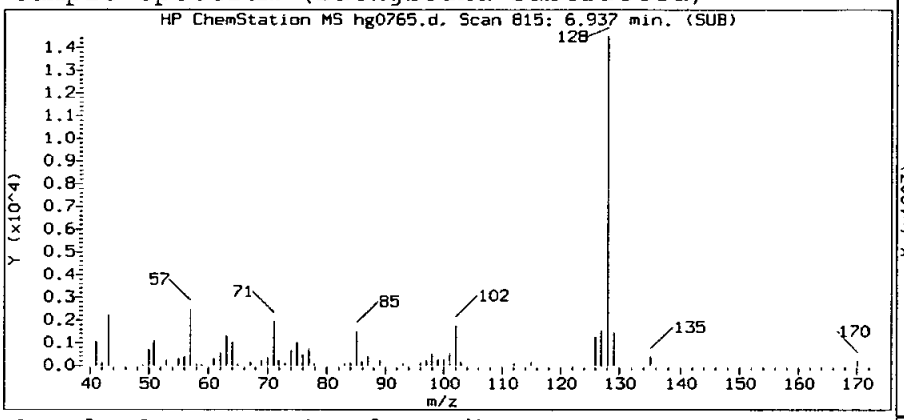
ASW73 0590

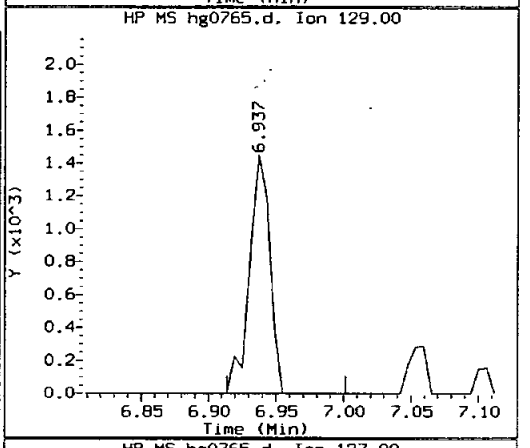
Reference Standard Spectrum for Naphthalene



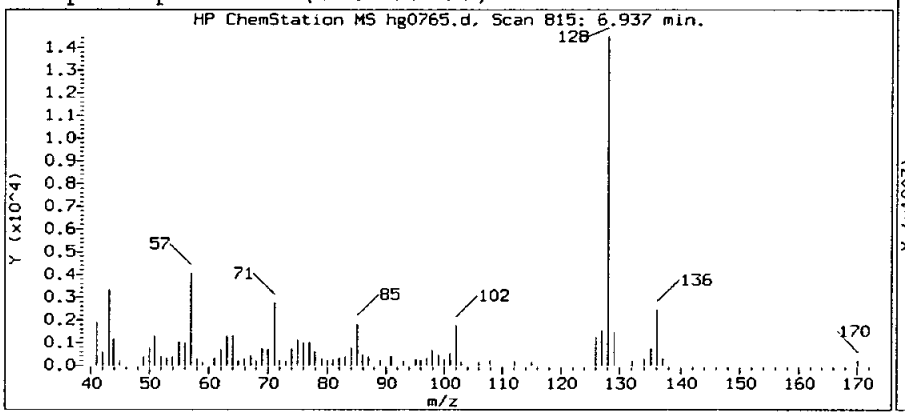


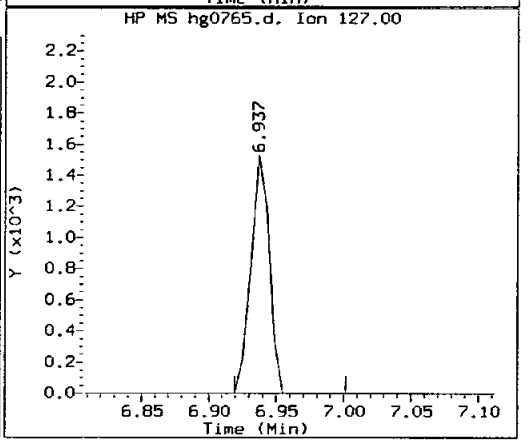
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compound Number	: 53
Compound Name	: Naphthalene
Scan Number	: 815
Retention Time (minutes)	: 6.937
Relative Retention Time	: 0.00084
Quant Ion	: 128.00
Area (flag)	: 12841
On-column Amount (ng/ul)	: 0.5283

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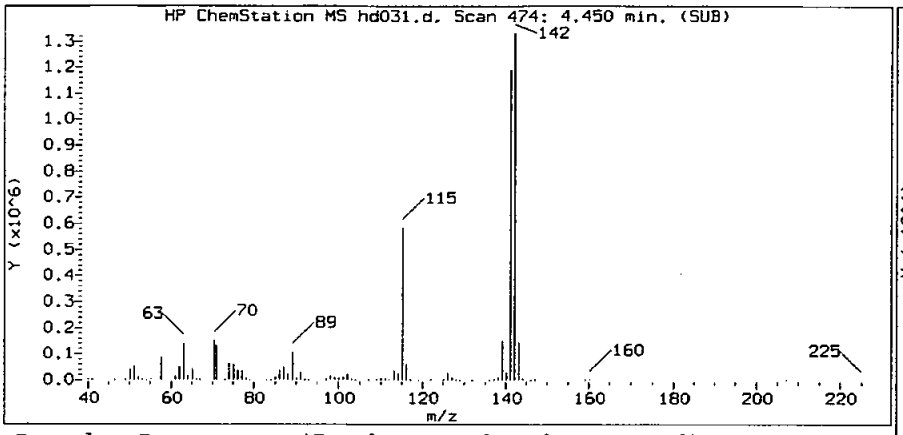
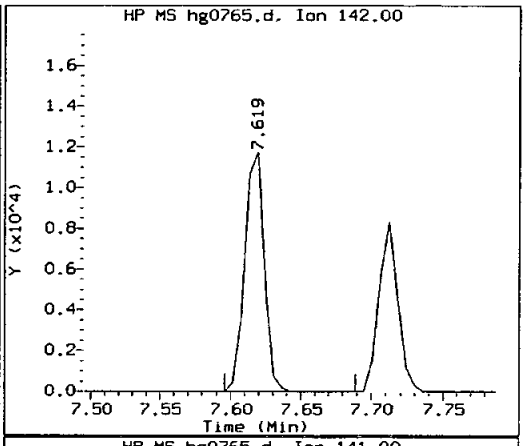
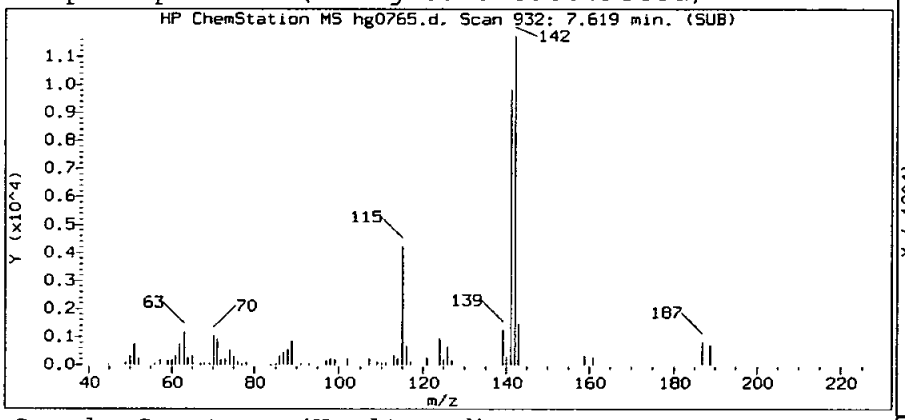
Target 3.5 esignature user ID: msw02109

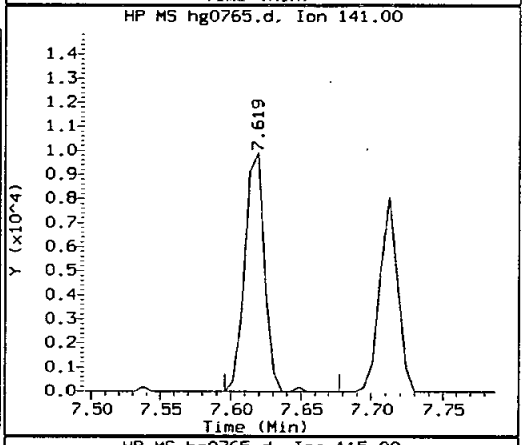
Reference Standard Spectrum for 2-Methylnaphthalene



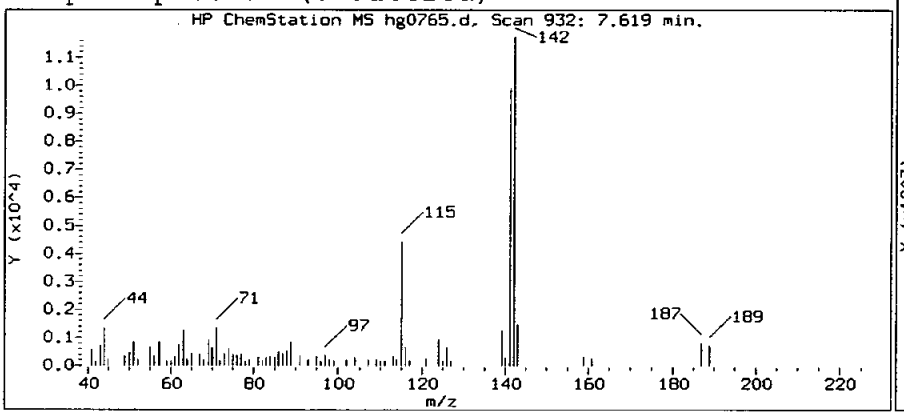


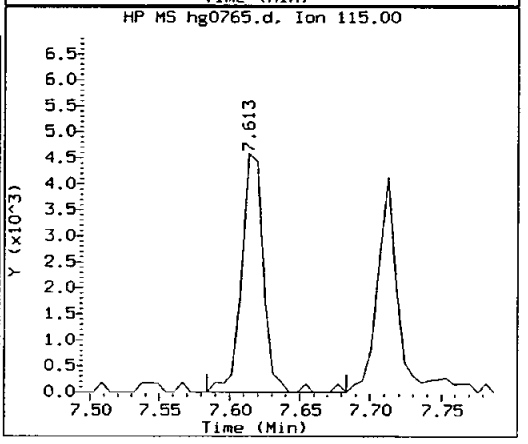
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compound Number	: 70
Compound Name	: 2-Methylnaphthalene
Scan Number	: 932
Retention Time (minutes)	: 7.619
Relative Retention Time	:-0.00000
Quant Ion	: 142.00
Area (flag)	: 11175
On-column Amount (ng/ul)	: 0.7528

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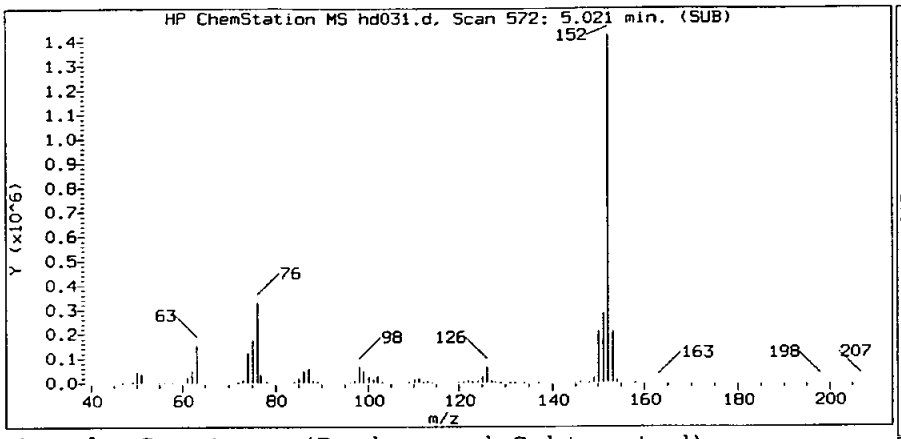
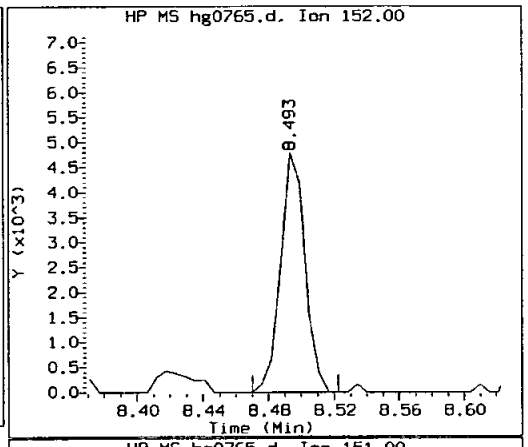
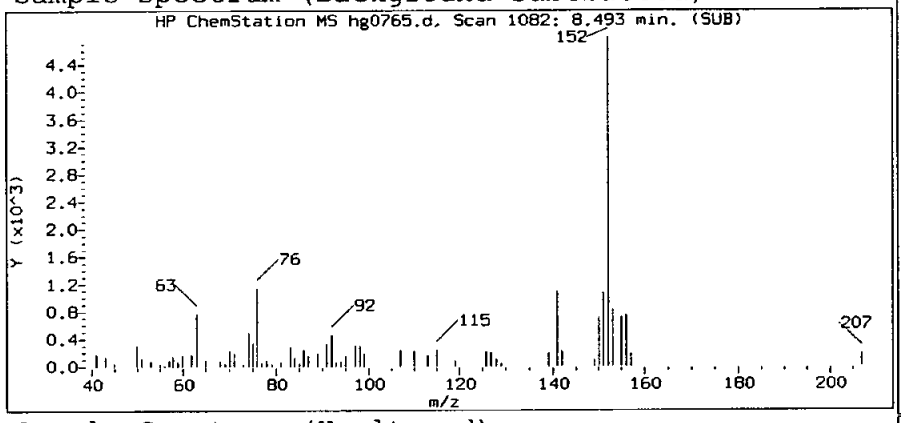
Target 3.5 esignature user ID: msw02109

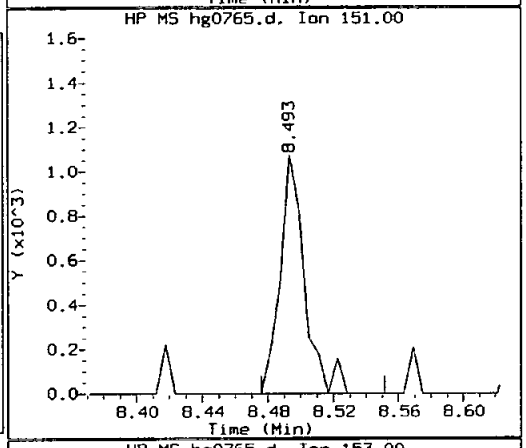
Reference Standard Spectrum for Acenaphthylene



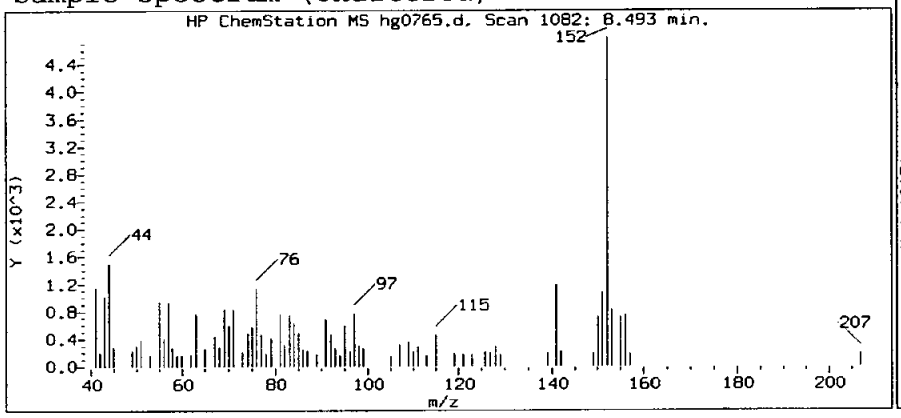


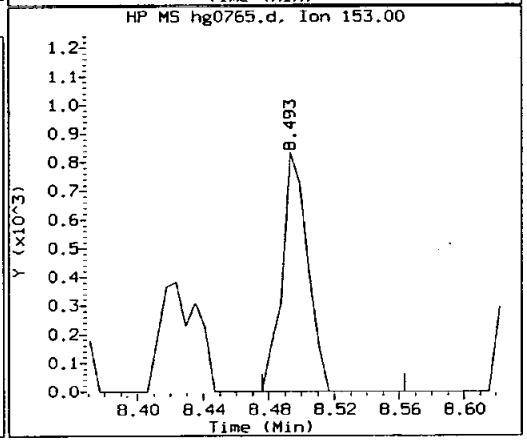
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compound Number	:	95
Compound Name	:	Acenaphthylene
Scan Number	:	1082
Retention Time (minutes)	:	8.493
Relative Retention Time	:	0.00001
Quant Ion	:	152.00
Area (flag)	:	4952M
On-column Amount (ng/ul)	:	0.2307

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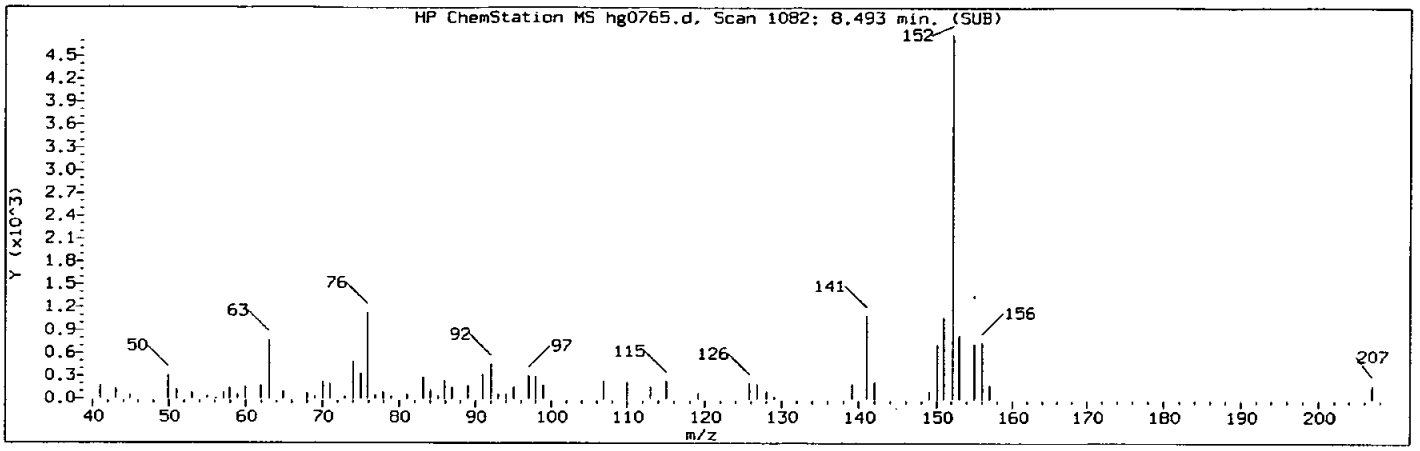
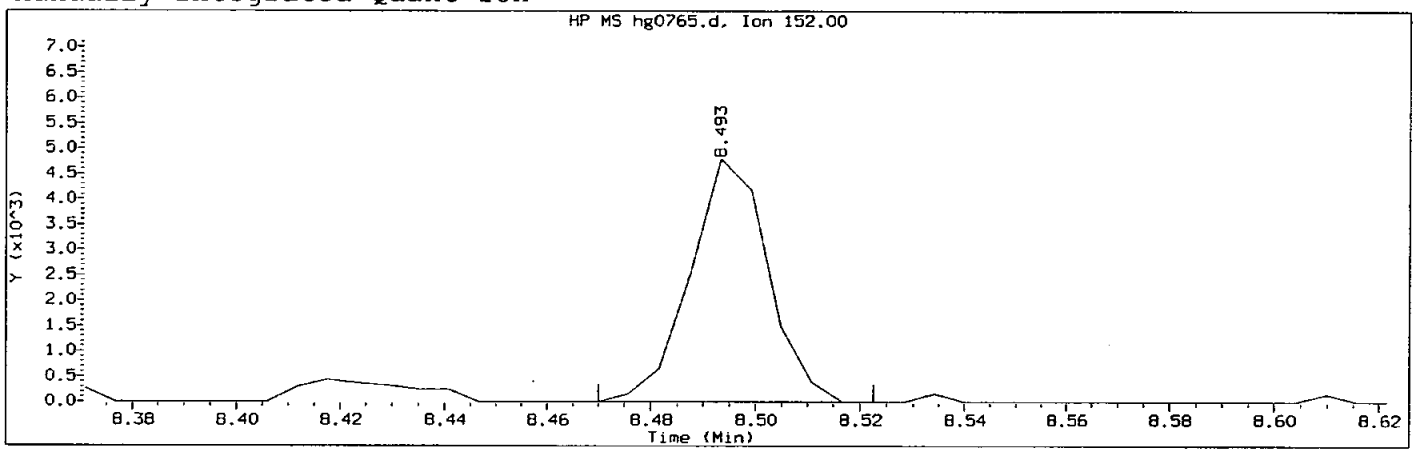
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721497

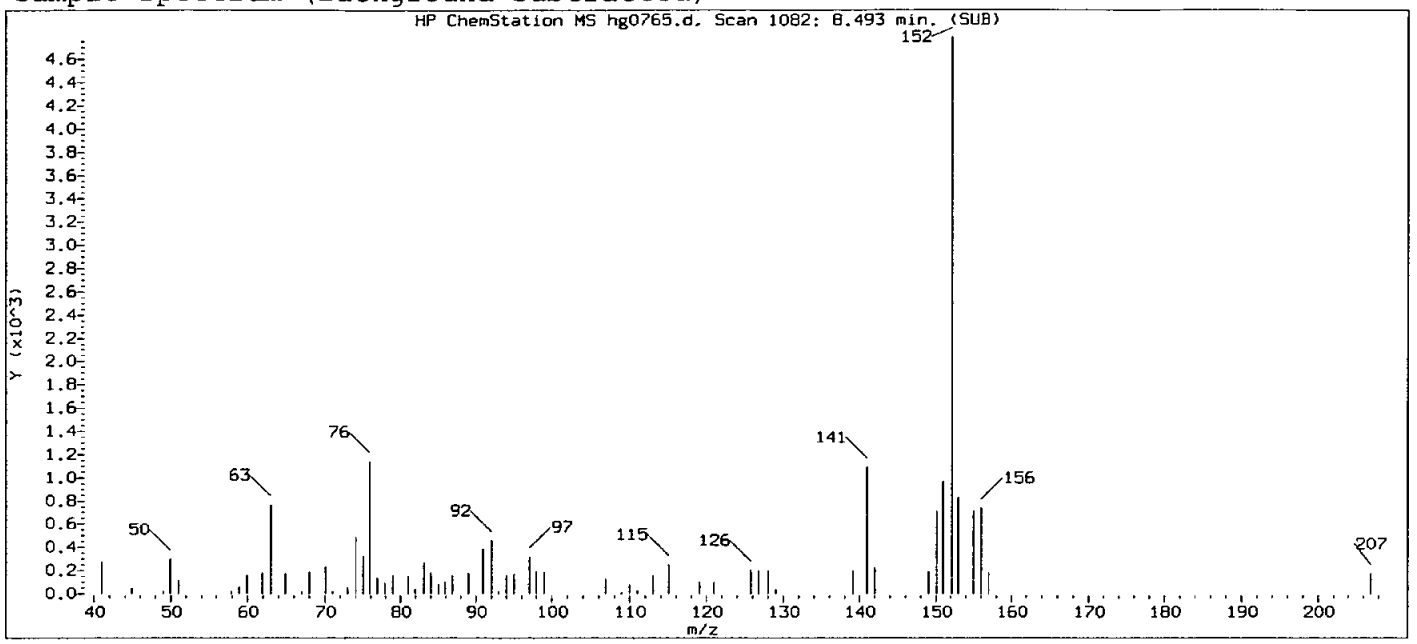
Compound Number	:	95
Compound Name	:	Acenaphthylene
Scan Number	:	1082
Retention Time (minutes)	:	8.493
Quant Ion	:	152.00
Area (flag)	:	4952M
On-column Amount (ng/ul)	:	0.2307
Integration start scan	:	1077 Integration stop scan: 1086
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration: improper integration

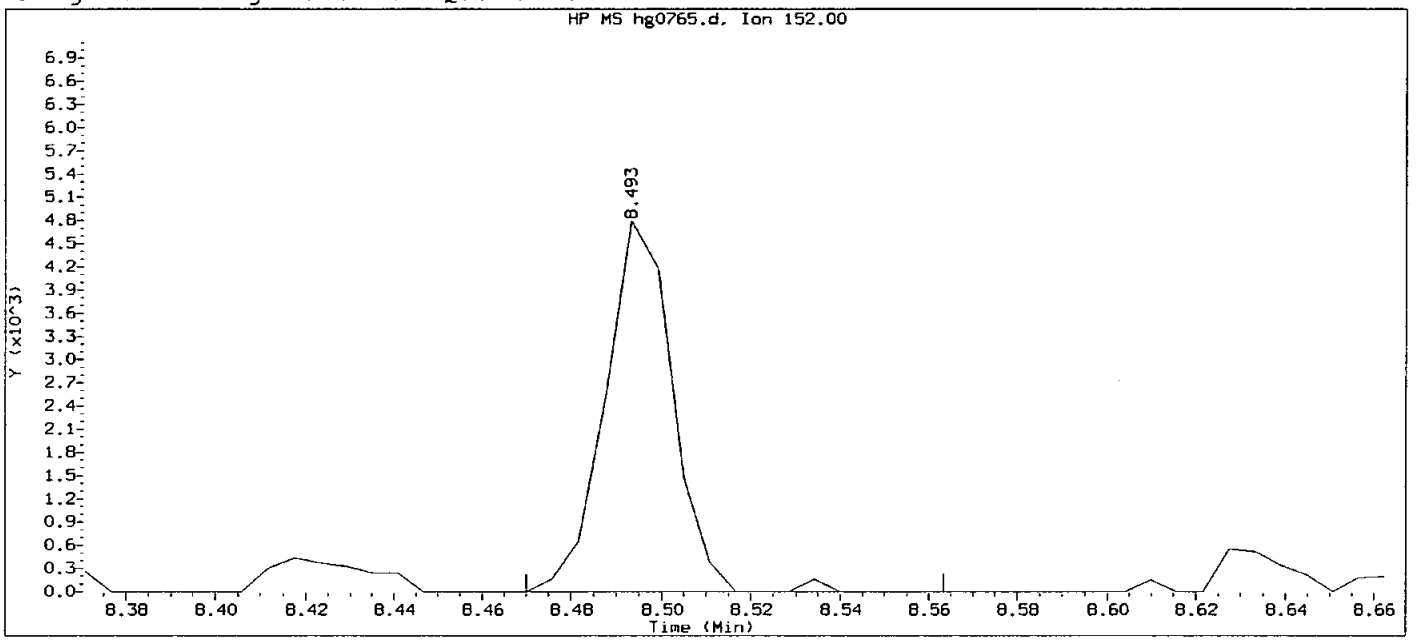
Analyst responsible for change: Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23. Target 3.5 esignature user ID: msw02109

Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:03. Parallax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:02 Automation

Sample Name: XXXXX Lab Sample ID: 6721497

Compound Number	:	95
Compound Name	:	Acenaphthylene
Scan Number	:	1082
Retention Time (minutes)	:	8.493
Quant Ion	:	152.00
Area	:	5008
On-column Amount (ng/ul)	:	0.2333
Integration start scan	:	1077 Integration stop scan: 1093
Y at integration start	:	0 Y at integration end: 0

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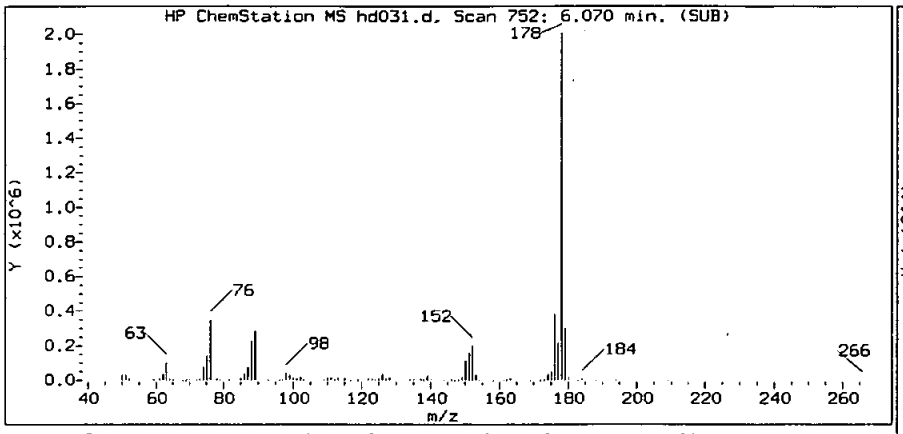
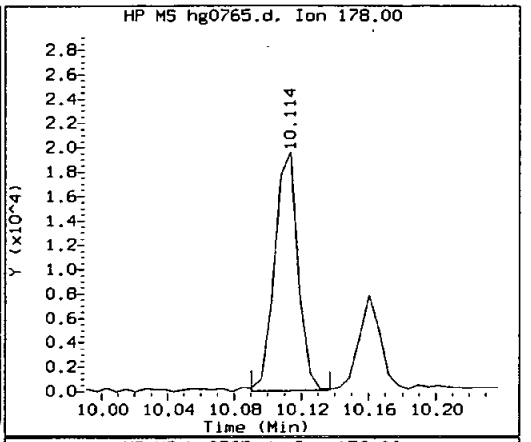
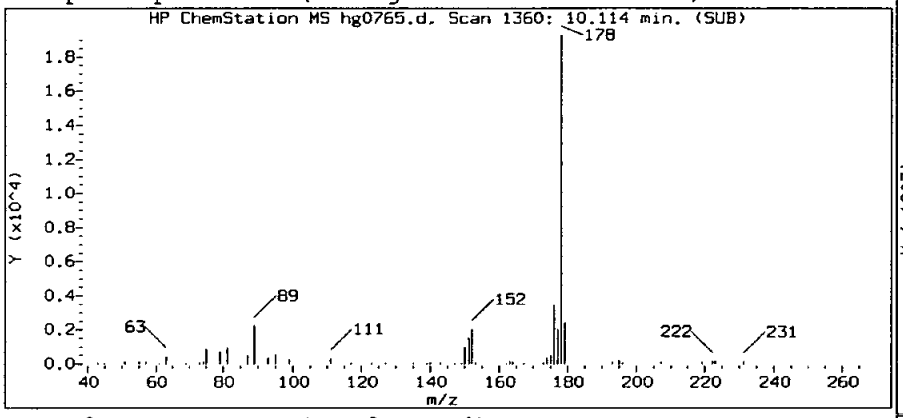
Target 3.5 esignature user ID: msw02109

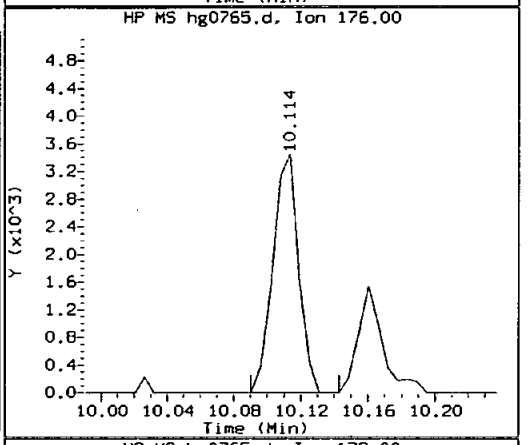
Reference Standard Spectrum for Phenanthrene



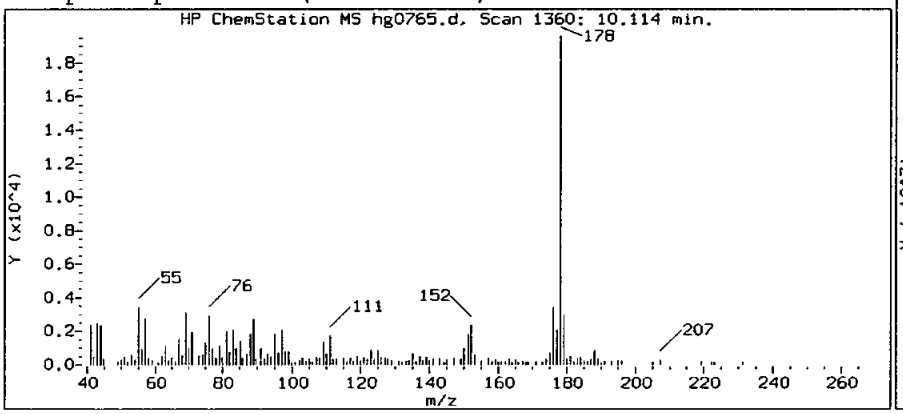


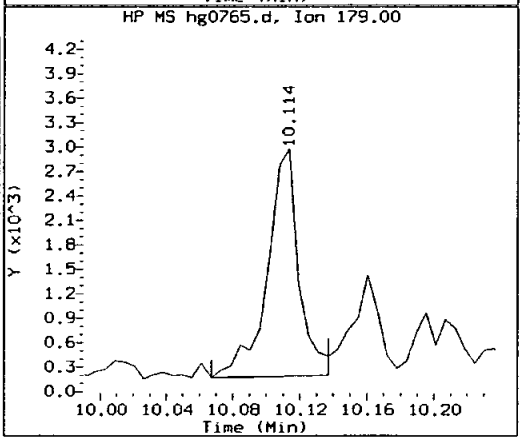
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compound Number	: 137
Compound Name	: Phenanthrene
Scan Number	: 1360
Retention Time (minutes)	: 10.114
Relative Retention Time	:-0.00000
Quant Ion	: 178.00
Area (flag)	: 19077
On-column Amount (ng/ul)	: 0.8207

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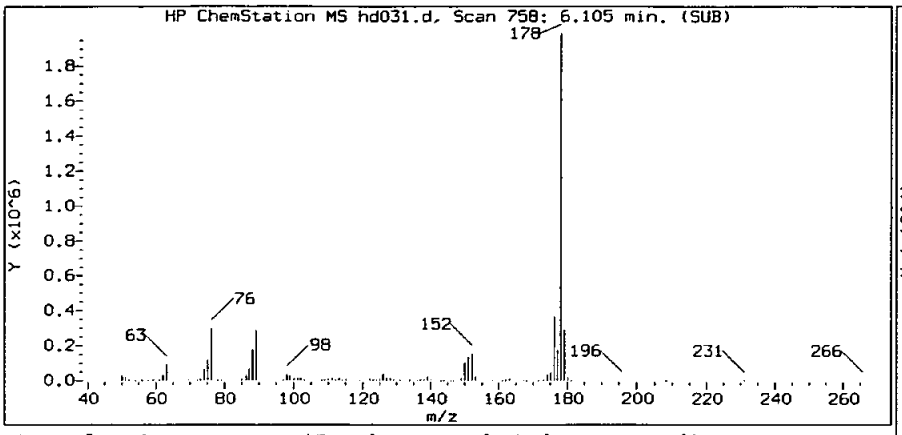
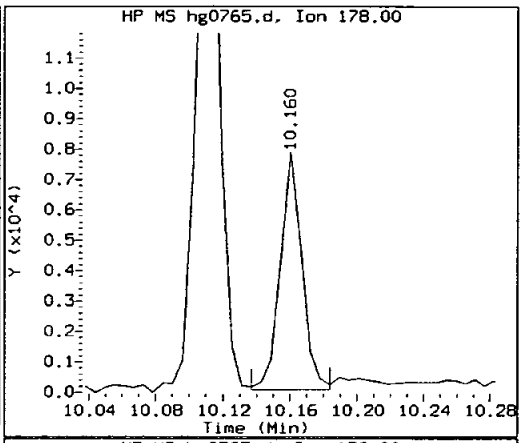
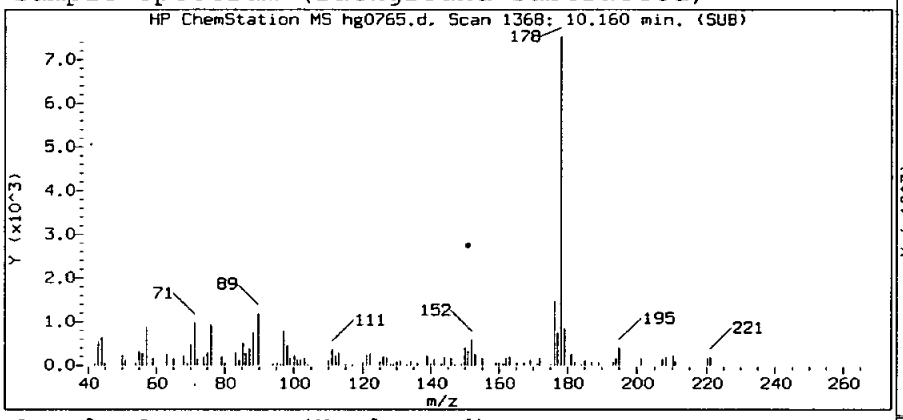
Target 3.5 esignature user ID: msw02109

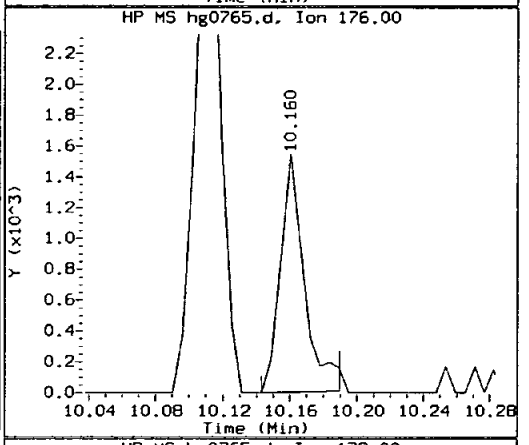
Reference Standard Spectrum for Anthracene



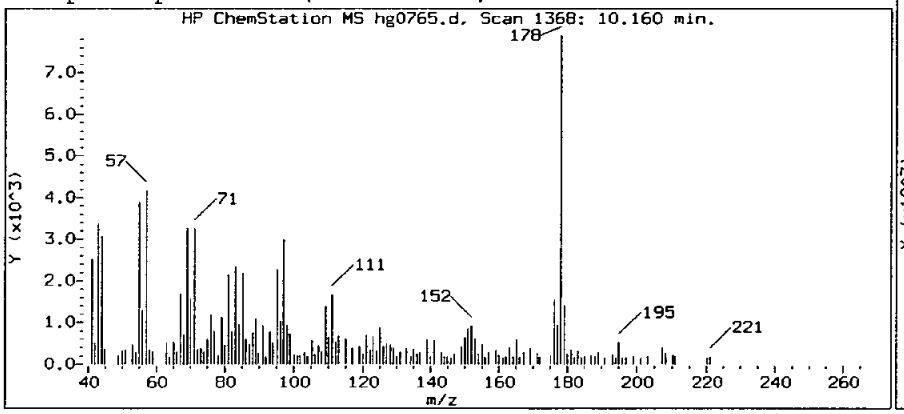


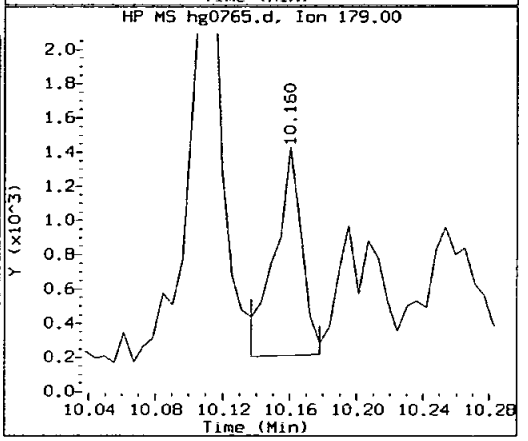
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compound Number	: 138
Compound Name	: Anthracene
Scan Number	: 1368
Retention Time (minutes)	: 10.160
Relative Retention Time	:-0.00000
Quant Ion	: 178.00
Area (flag)	: 6985
On-column Amount (ng/ul)	: 0.3041

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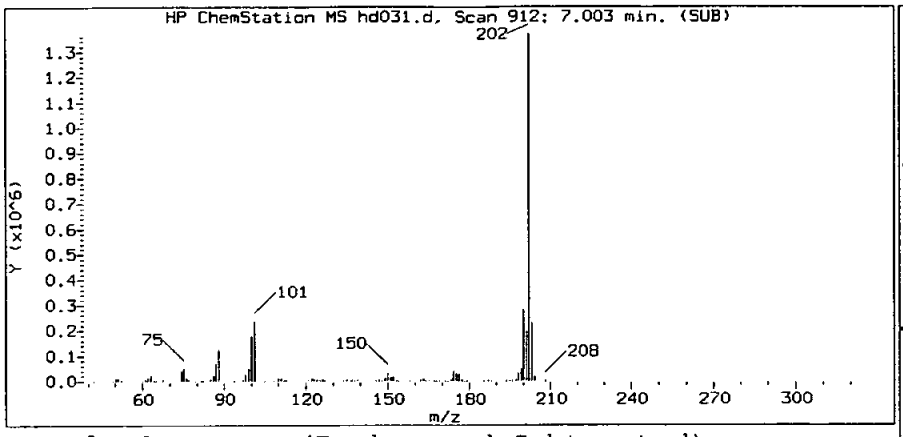
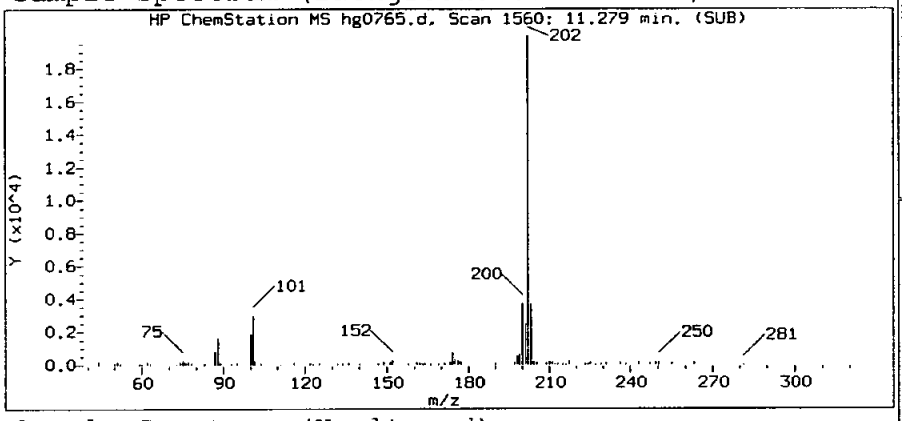
Target 3.5 esignature user ID: msw02109

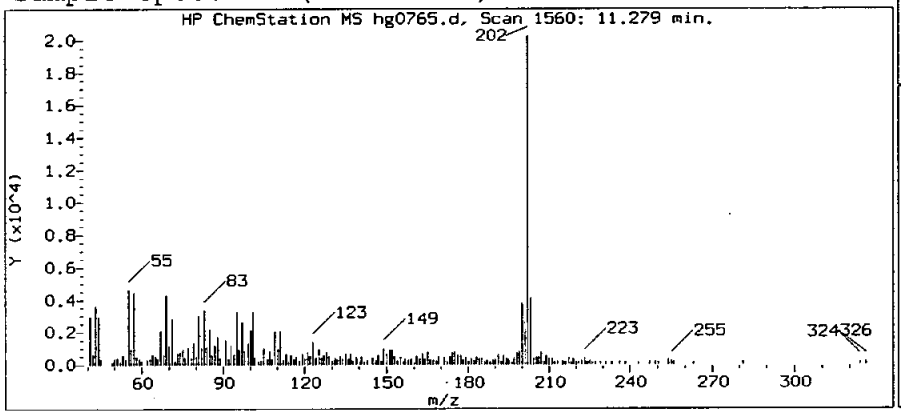
Reference Standard Spectrum for Fluoranthene

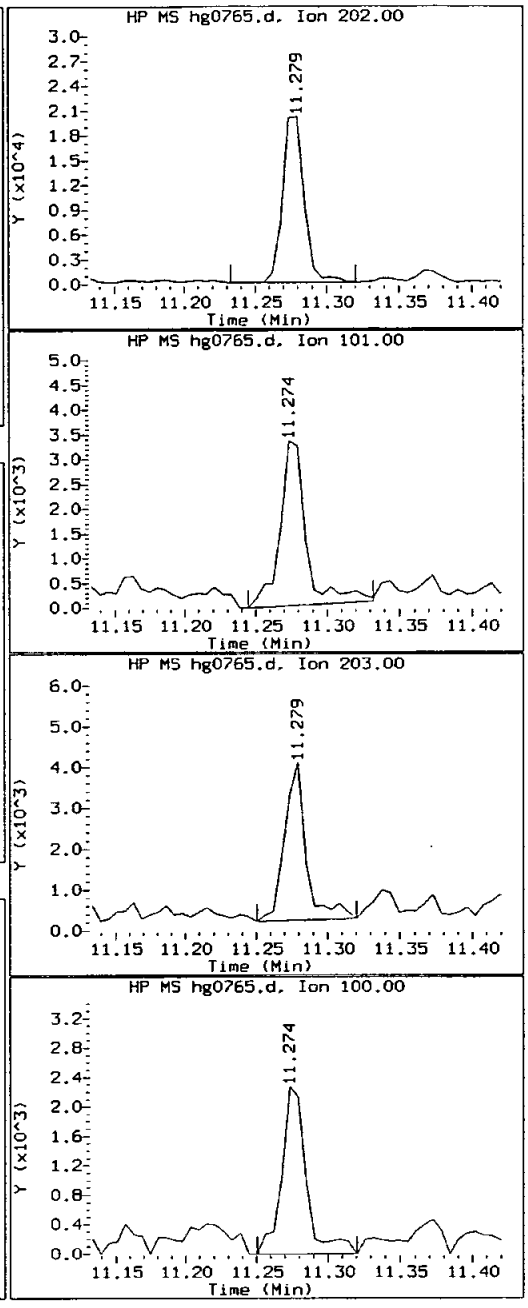


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

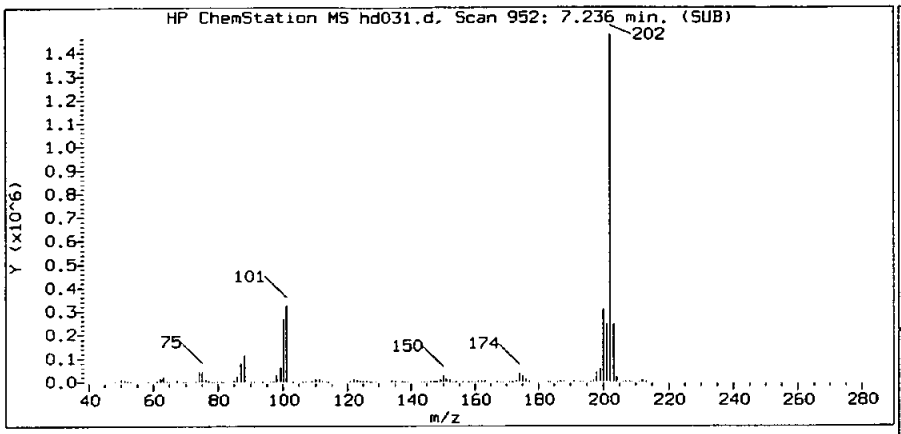
Sample Name: XXXXX

Lab Sample ID: 6721497

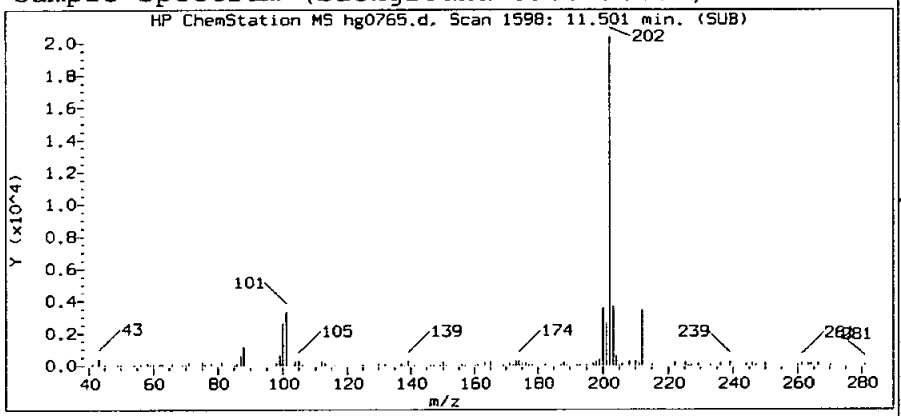
Compound Number	: 147
Compound Name	: Fluoranthene
Scan Number	: 1560
Retention Time (minutes)	: 11.279
Relative Retention Time	:-0.00065
Quant Ion	: 202.00
Area (flag)	: 21323
On-column Amount (ng/ul)	: 0.9249

Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

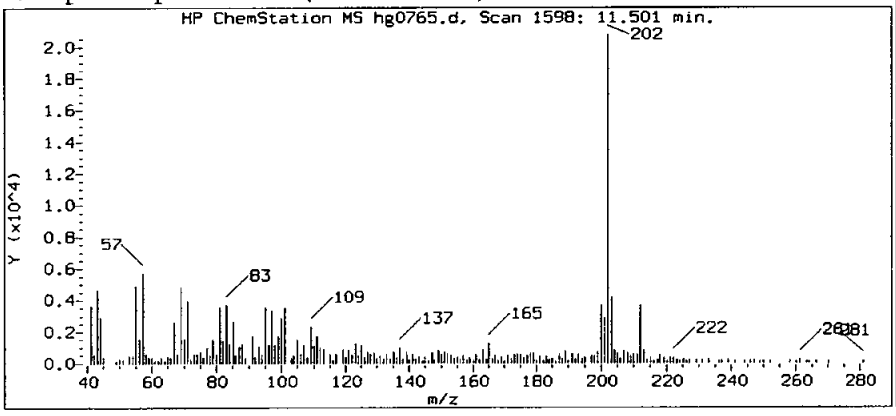
Reference Standard Spectrum for Pyrene

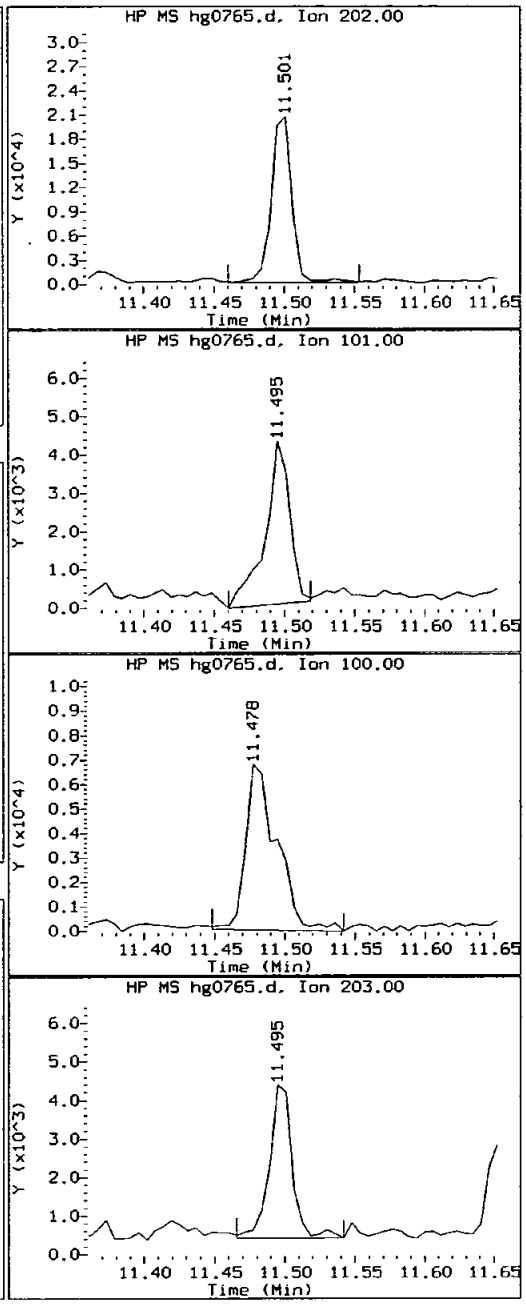


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compound Number	: 154
Compound Name	: Pyrene
Scan Number	: 1598
Retention Time (minutes)	: 11.501
Relative Retention Time	: 0.00051
Quant Ion	: 202.00
Area (flag)	: 21041
On-column Amount (ng/ul)	: 0.9130

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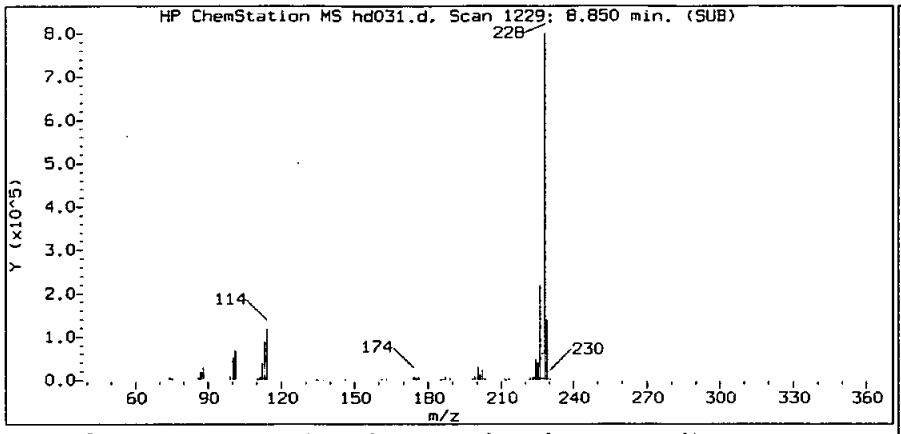
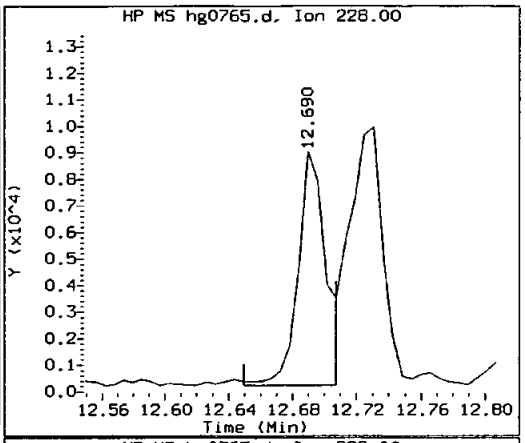
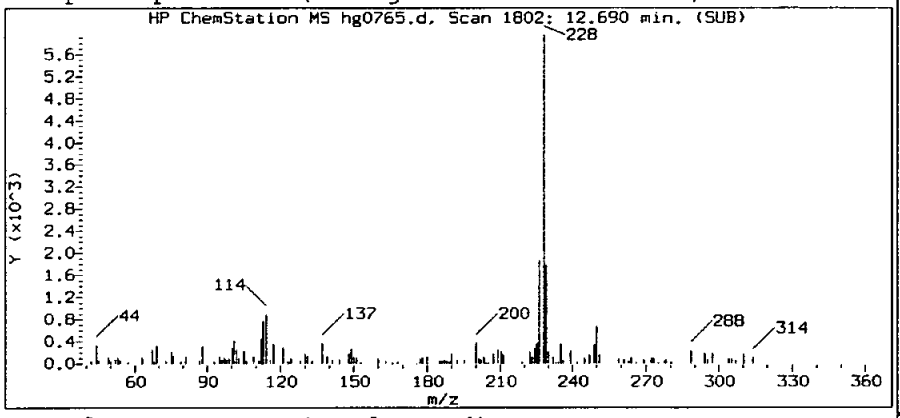
Target 3.5 esignature user ID: msw02109

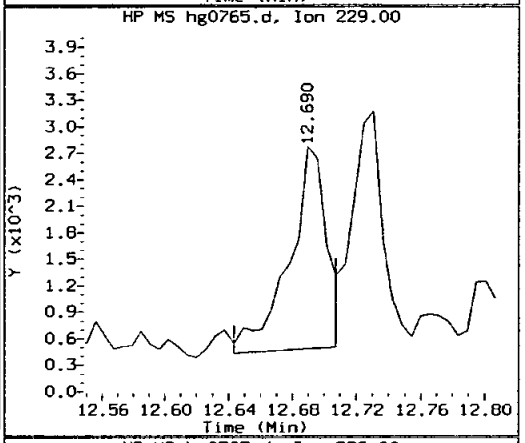
Reference Standard Spectrum for Benzo(a)anthracene



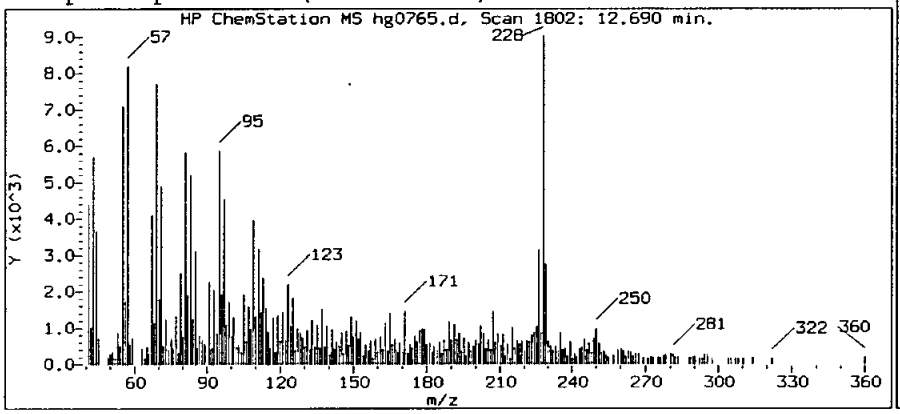


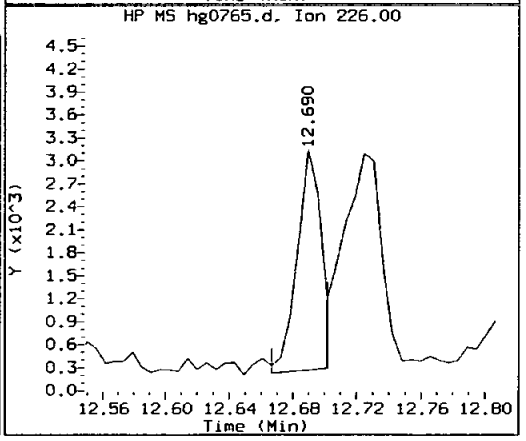
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compound Number	: 166
Compound Name	: Benzo(a)anthracene
Scan Number	: 1802
Retention Time (minutes)	: 12.690
Relative Retention Time	: 0.00101
Quant Ion	: 228.00
Area (flag)	: 10196
On-column Amount (ng/ul)	: 0.6028

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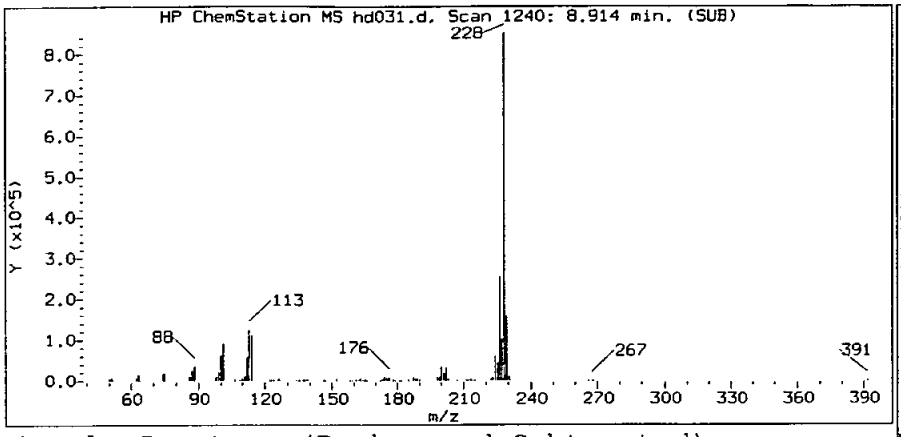
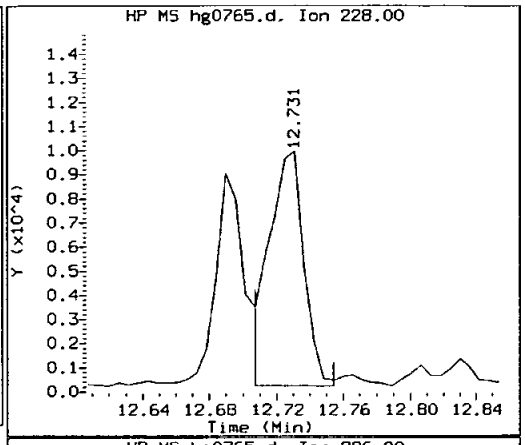
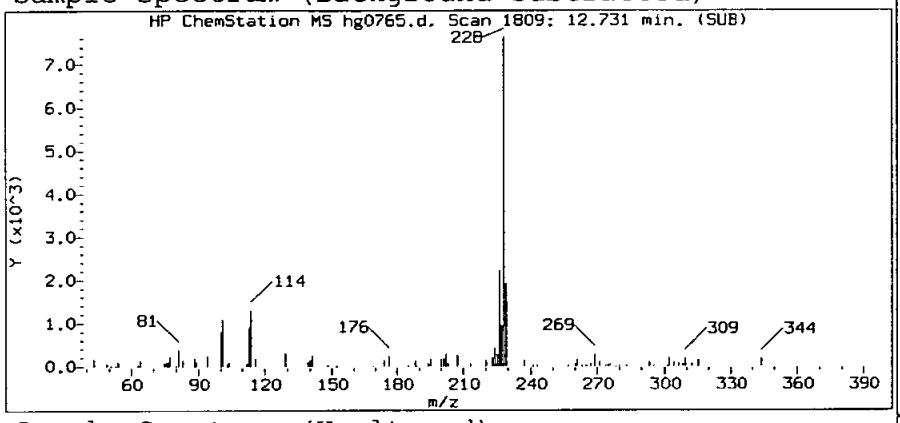
Target 3.5 esignature user ID: msw02109

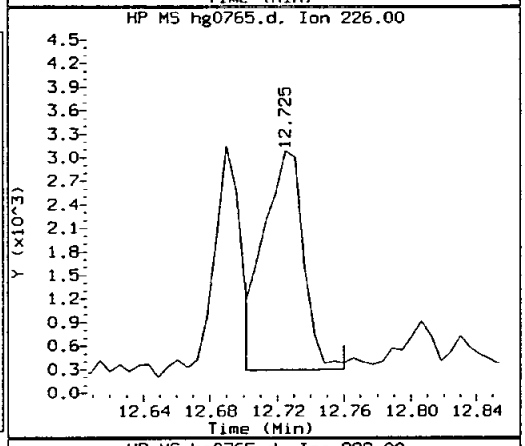
Reference Standard Spectrum for Chrysene



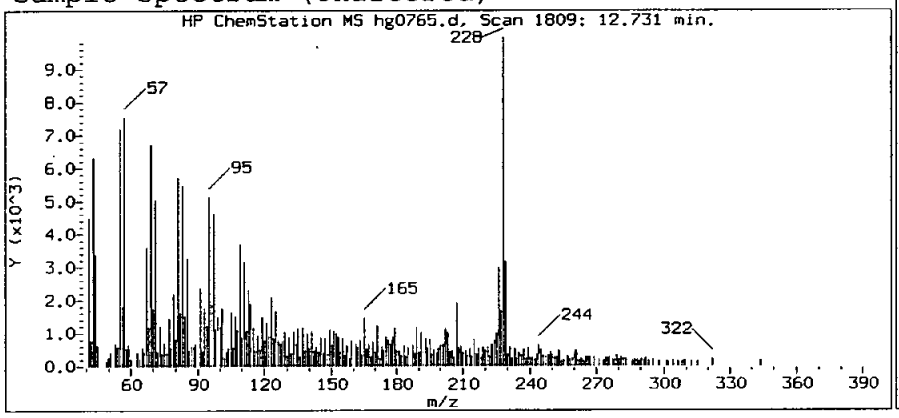


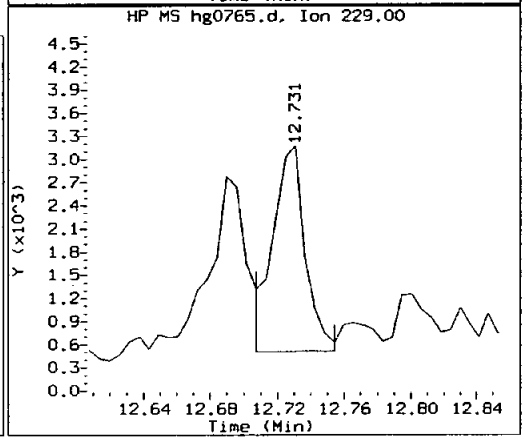
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compound Number	: 168
Compound Name	: Chrysene
Scan Number	: 1809
Retention Time (minutes)	: 12.731
Relative Retention Time	: 0.00050
Quant Ion	: 228.00
Area (flag)	: 14829M
On-column Amount (ng/ul)	: 0.8699

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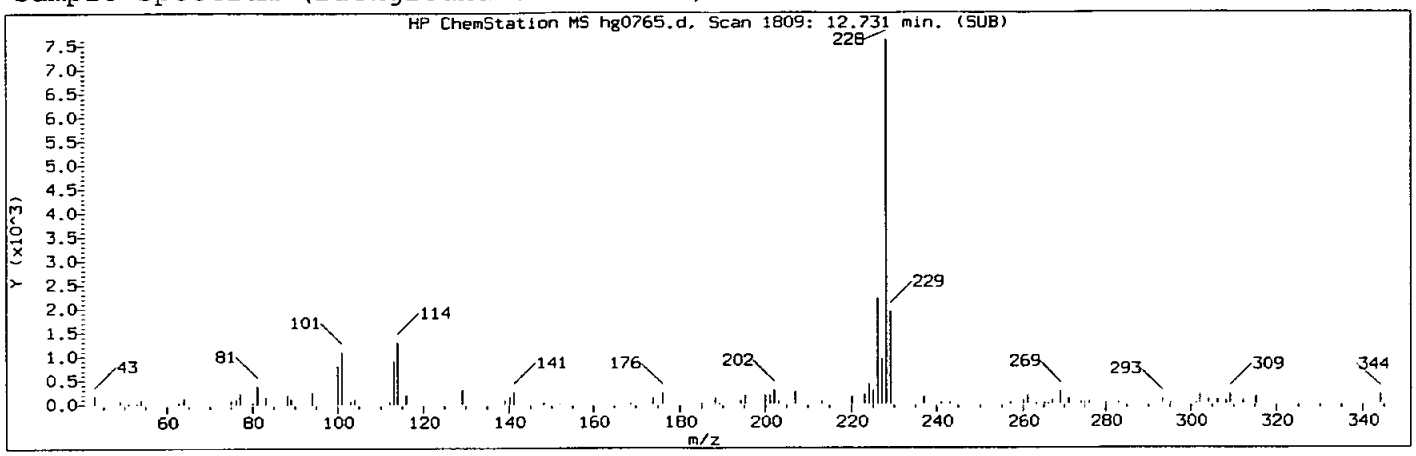
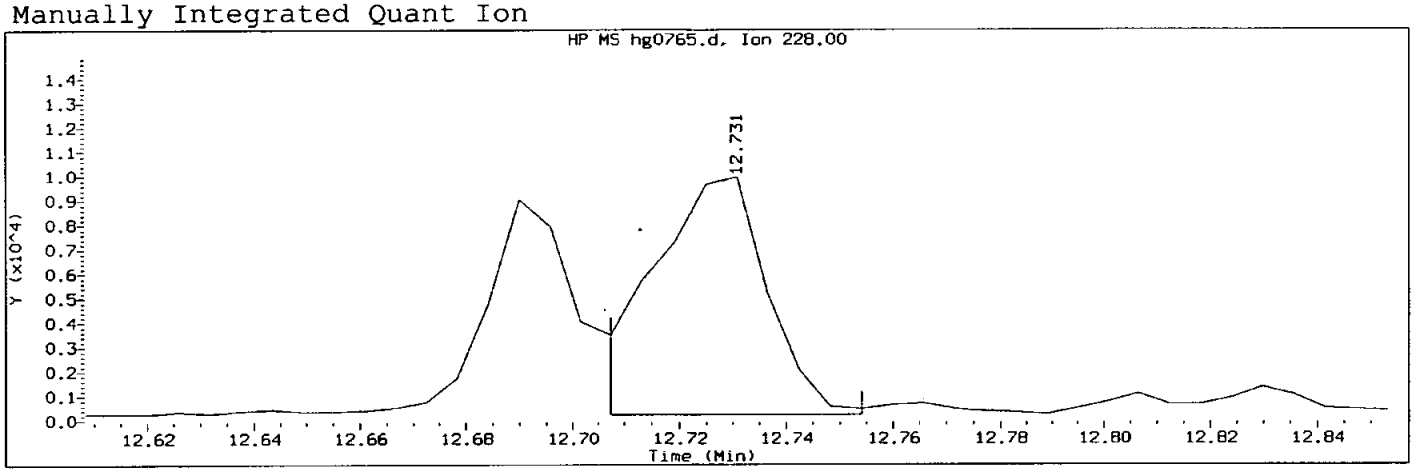
Target 3.5 esignature user ID: msw02109.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721497

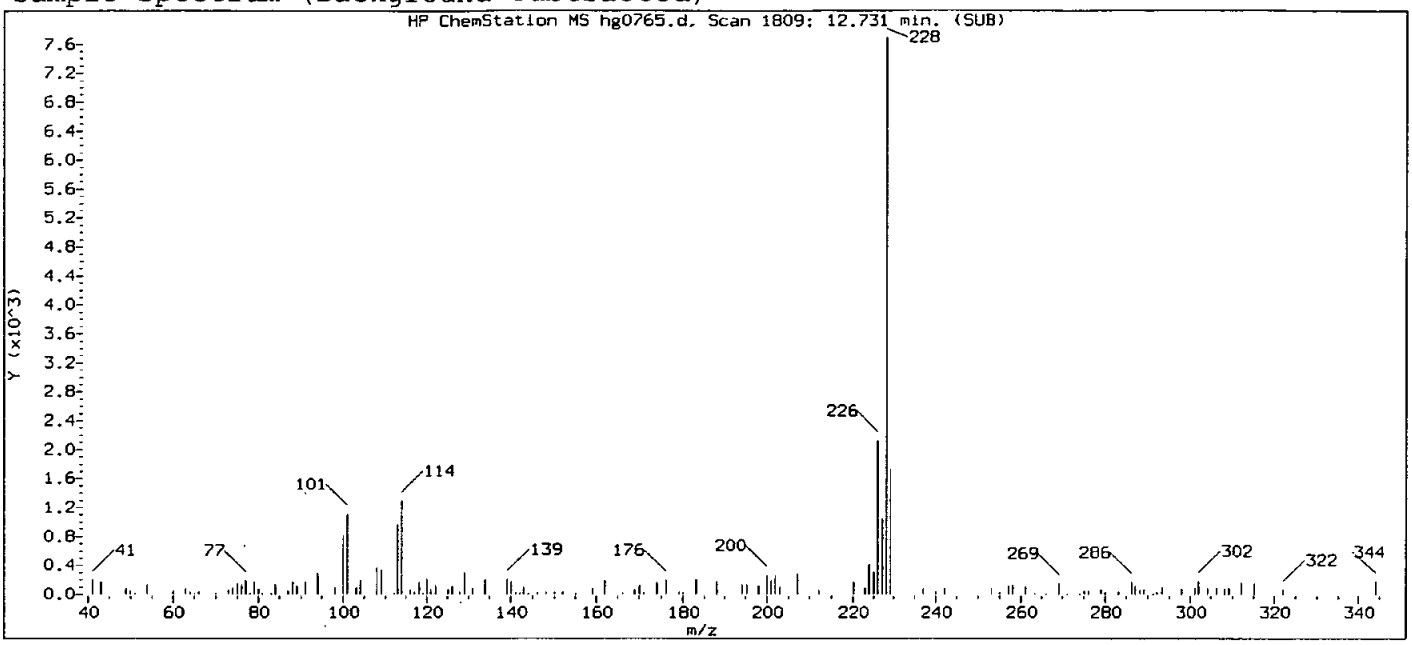
Compound Number	: 168		
Compound Name	: Chrysene		
Scan Number	: 1809		
Retention Time (minutes)	: 12.731		
Quant Ion	: 228.00		
Area (flag)	: 14829M		
On-column Amount (ng/ul)	: 0.8699		
Integration start scan	: 1804	Integration stop scan:	1812
Y at integration start	: 238	Y at integration end:	235

Reason for manual integration: improper integration

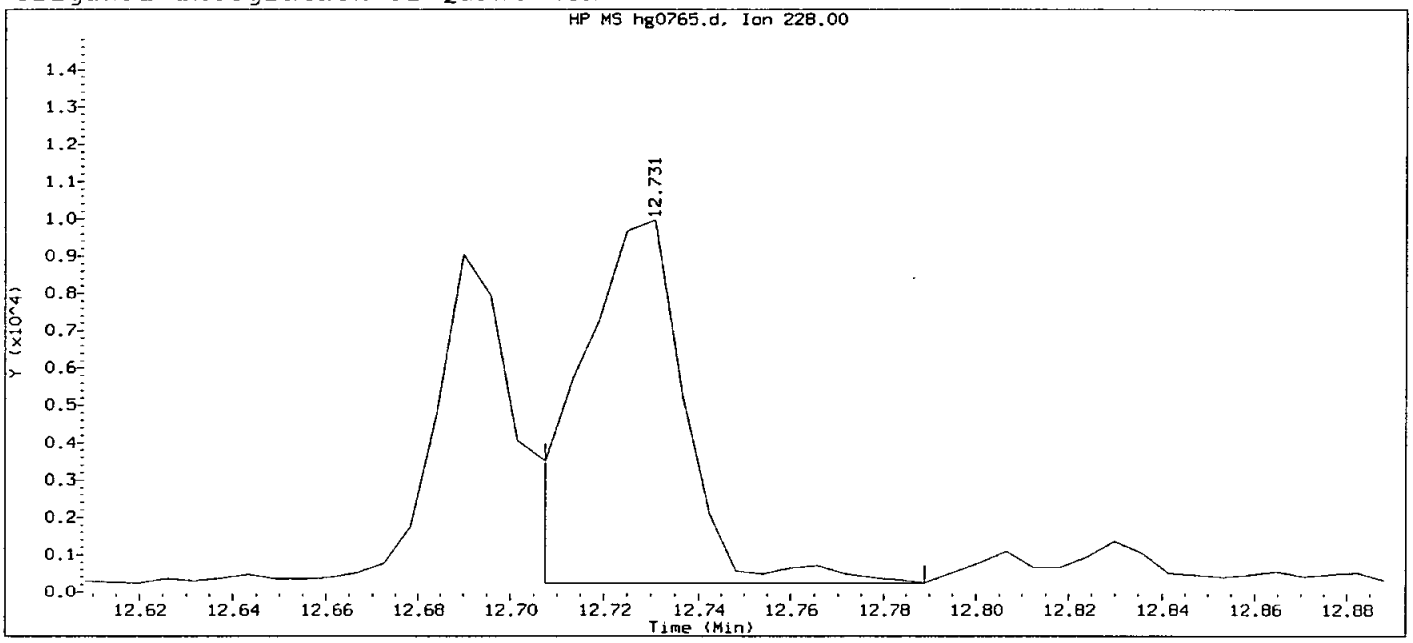
Analyst responsible for change: Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23. Target 3.5 esignature user ID: msw02109

Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:03. Parallax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

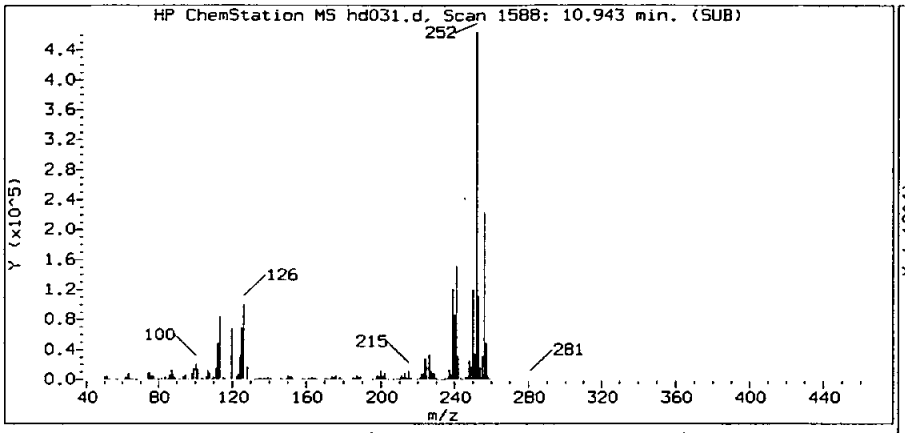
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:02 Automation

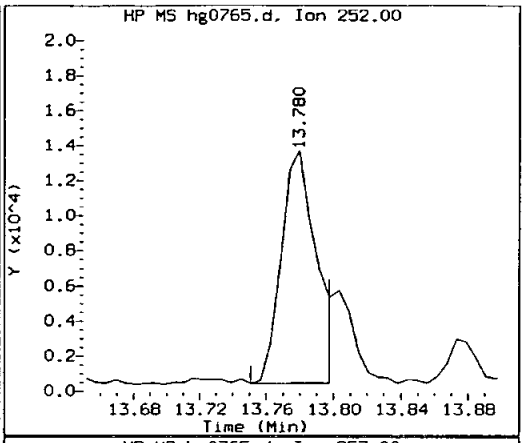
Sample Name: XXXXX Lab Sample ID: 6721497

Compound Number	: 168		
Compound Name	: Chrysene		
Scan Number	: 1809		
Retention Time (minutes)	: 12.731		
Quant Ion	: 228.00		
Area	: 14742		
On-column Amount (ng/ul)	: 0.8648		
Integration start scan	: 1804	Integration stop scan:	1818
Y at integration start	: 238	Y at integration end:	232

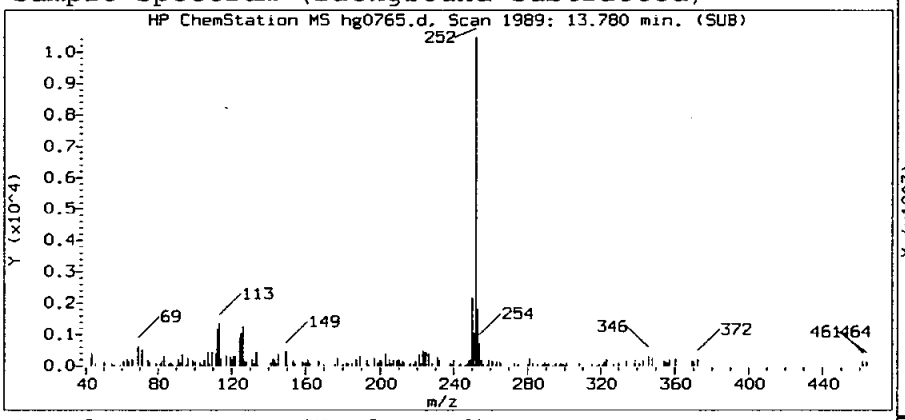
Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

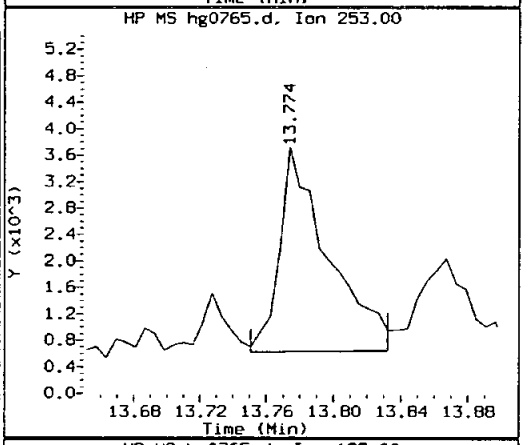
Reference Standard Spectrum for Benzo(b)fluoranthene



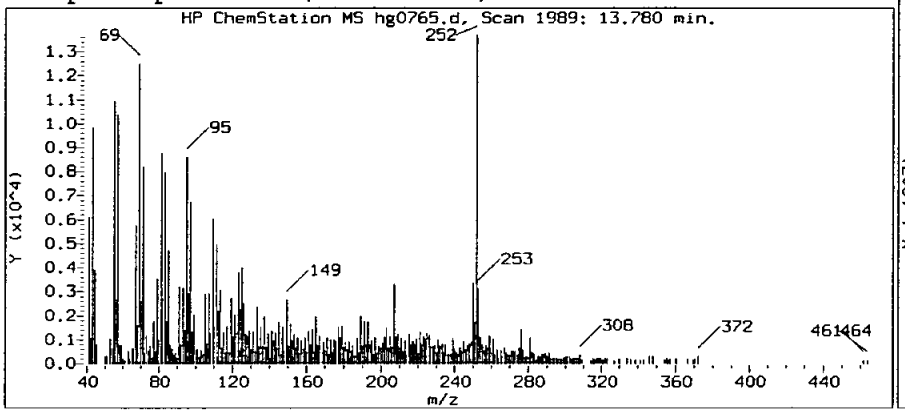


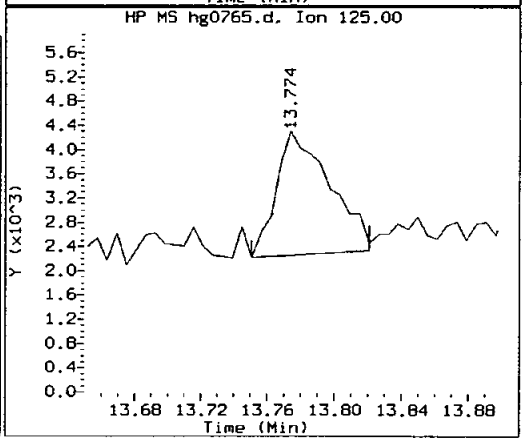
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compound Number	: 172
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1989
Retention Time (minutes)	: 13.780
Relative Retention Time	: 0.00041
Quant Ion	: 252.00
Area (flag)	: 19400M
On-column Amount (ng/ul)	: 1.3879

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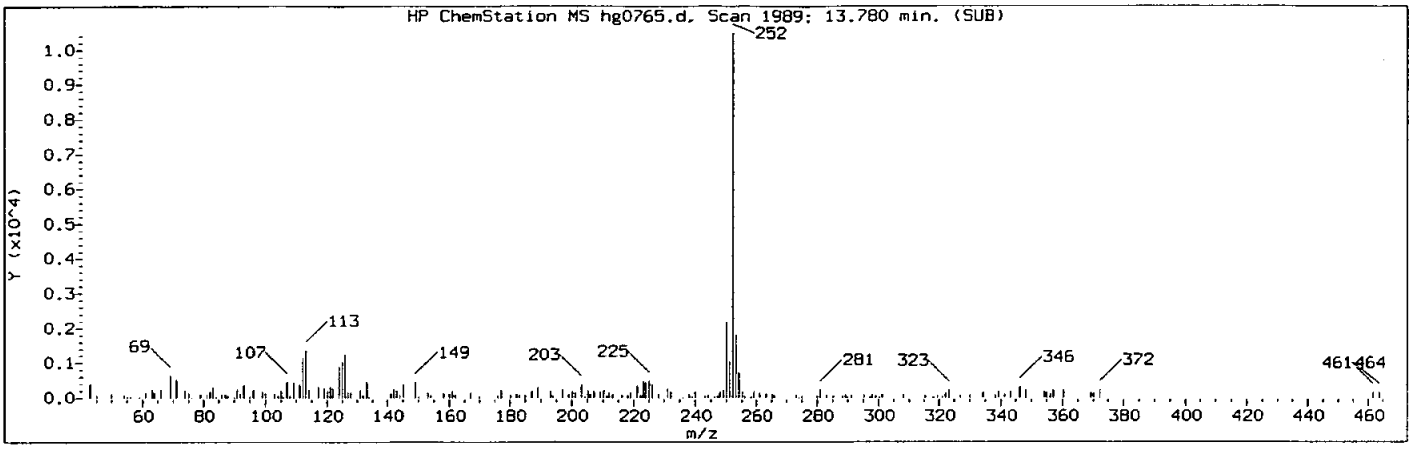
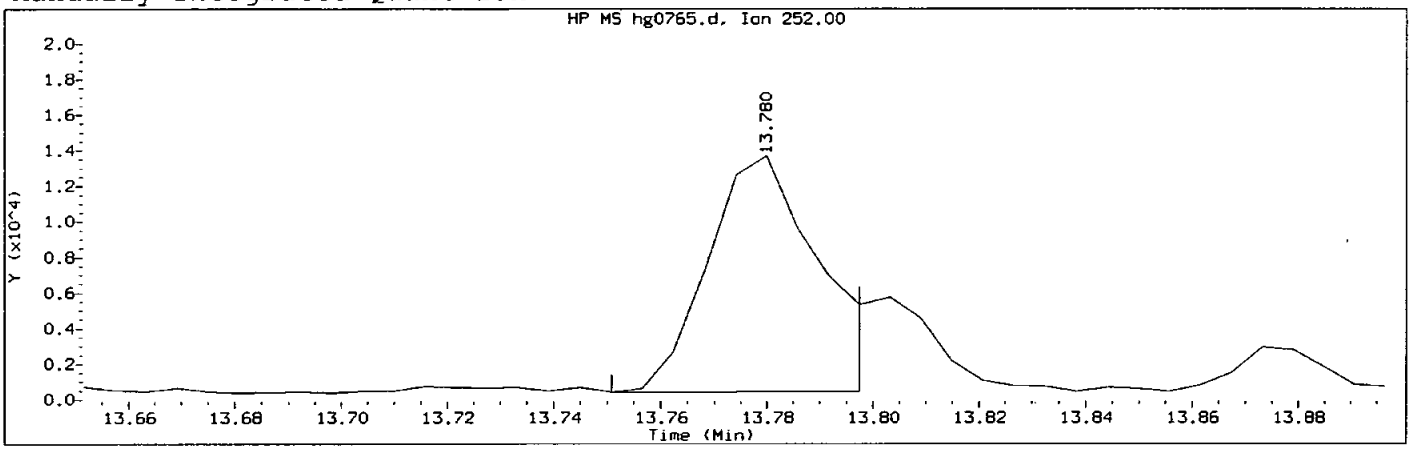
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721497

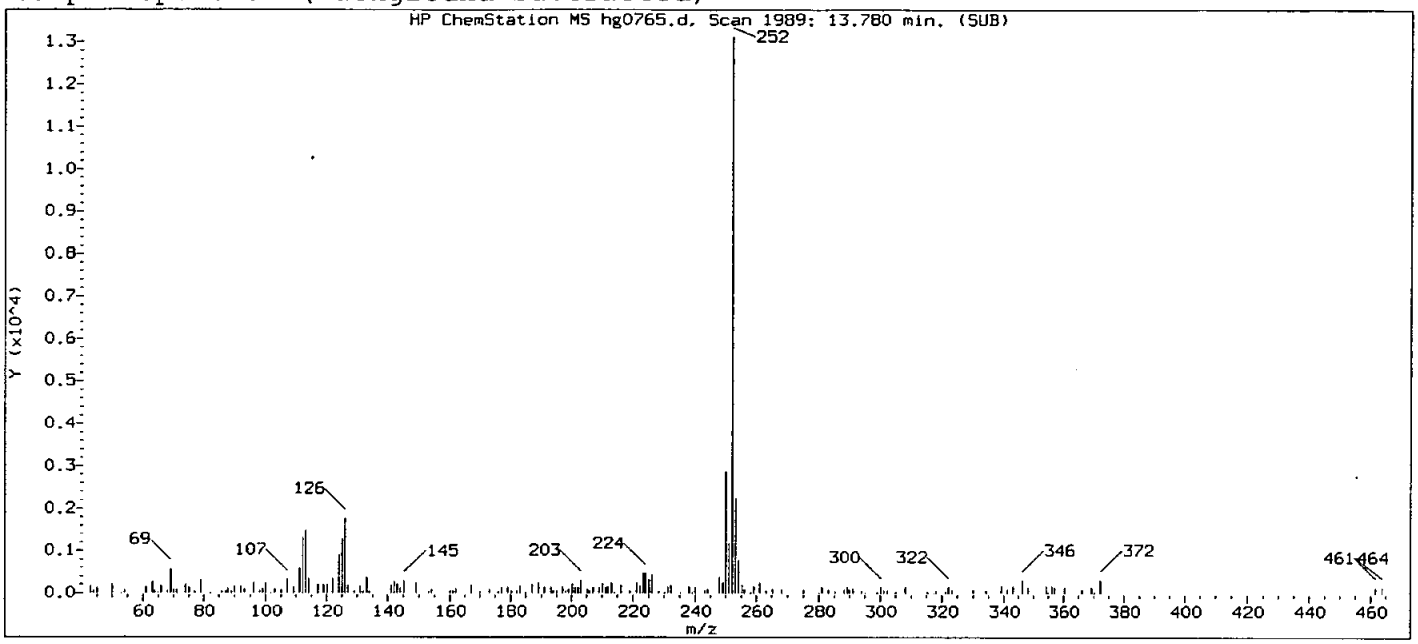
Compound Number	: 172		
Compound Name	: Benzo(b)fluoranthene		
Scan Number	: 1989		
Retention Time (minutes)	: 13.780		
Quant Ion	: 252.00		
Area (flag)	: 19400M		
On-column Amount (ng/ul)	: 1.3879		
Integration start scan	: 1983	Integration stop scan:	1991
Y at integration start	: 421	Y at integration end:	464

Reason for manual integration: improper integration

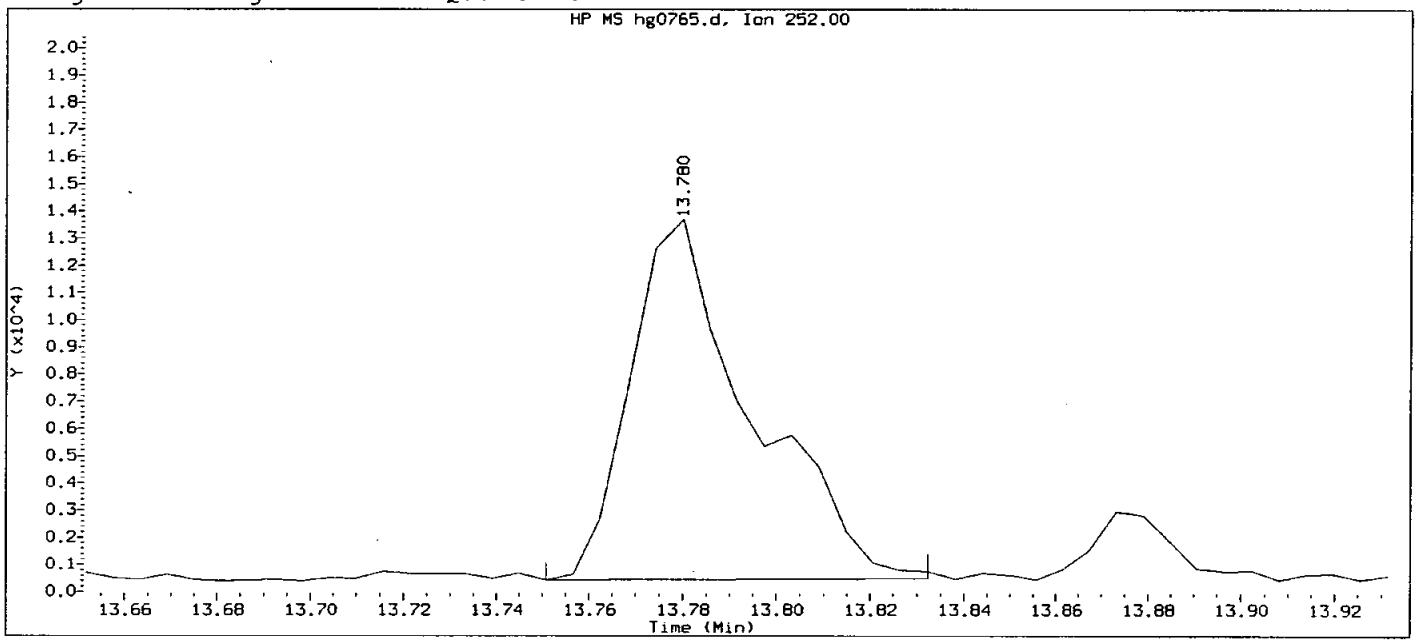
Analyst responsible for change: Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23 Target 3.5 esignature user ID: msw02109

Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:03
Parallax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:02 Automation

Sample Name: XXXXX Lab Sample ID: 6721497

Compound Number	: 172	
Compound Name	: Benzo(b)fluoranthene	
Scan Number	: 1989	
Retention Time (minutes)	: 13.780	
Quant Ion	: 252.00	
Area	: 23649	
On-column Amount (ng/ul)	: 1.6919	
Integration start scan	: 1983	Integration stop scan: 1997
Y at integration start	: 421	Y at integration end: 497

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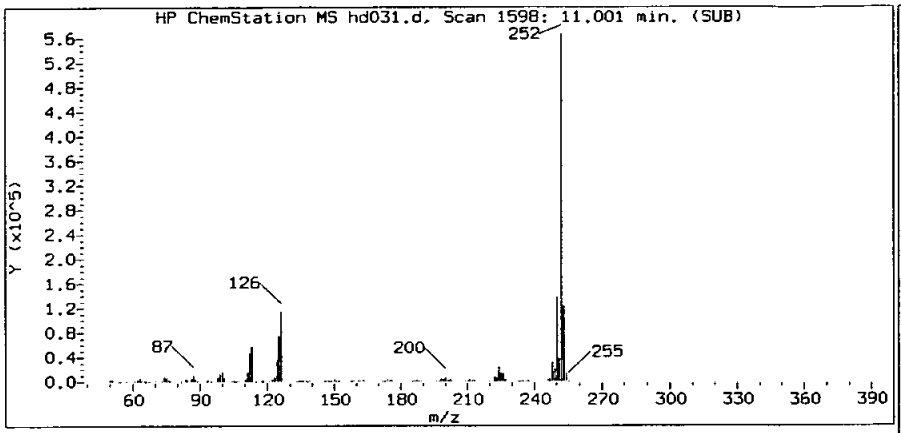
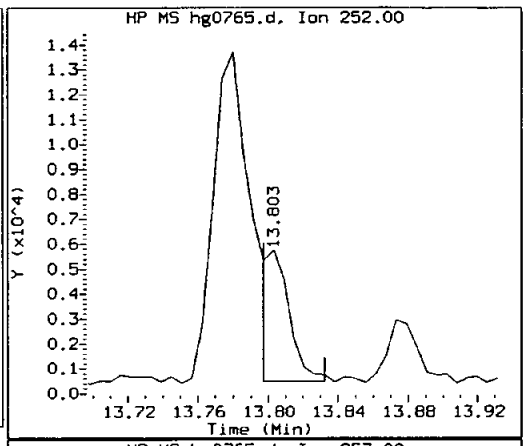
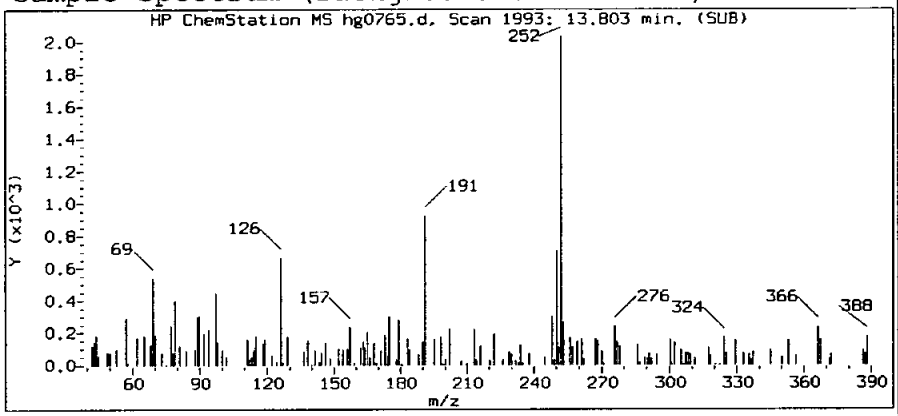
Target 3.5 esignature user ID: msw02109

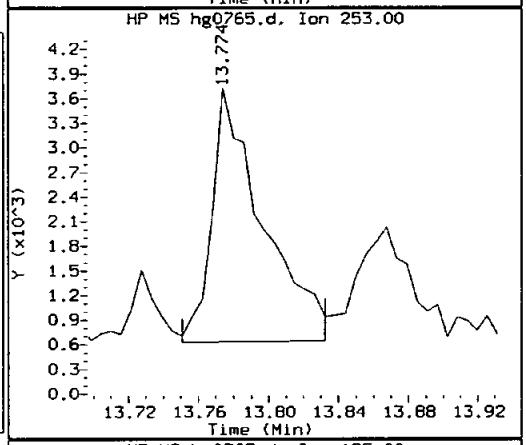
Reference Standard Spectrum for Benzo(k)fluoranthene



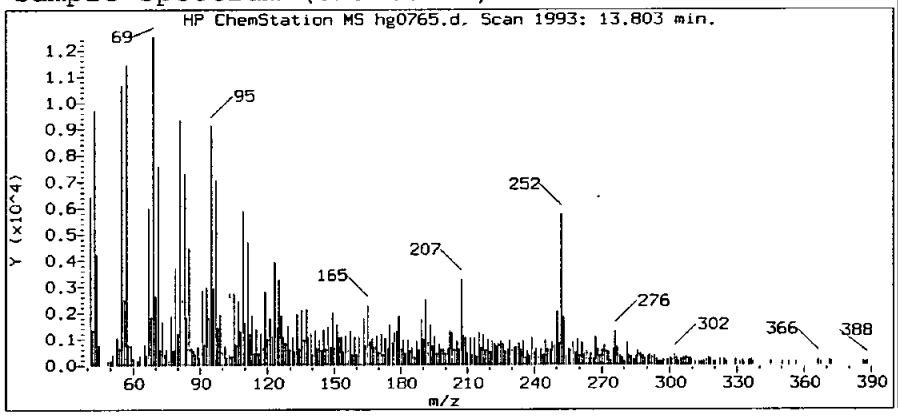


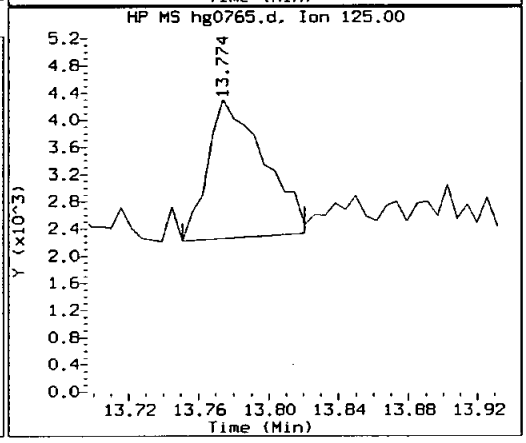
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721497

Compound Number	: 173
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1993
Retention Time (minutes)	: 13.803
Relative Retention Time	: 0.00082
Quant Ion	: 252.00
Area (flag)	: 5963M
On-column Amount (ng/ul)	: 0.4310

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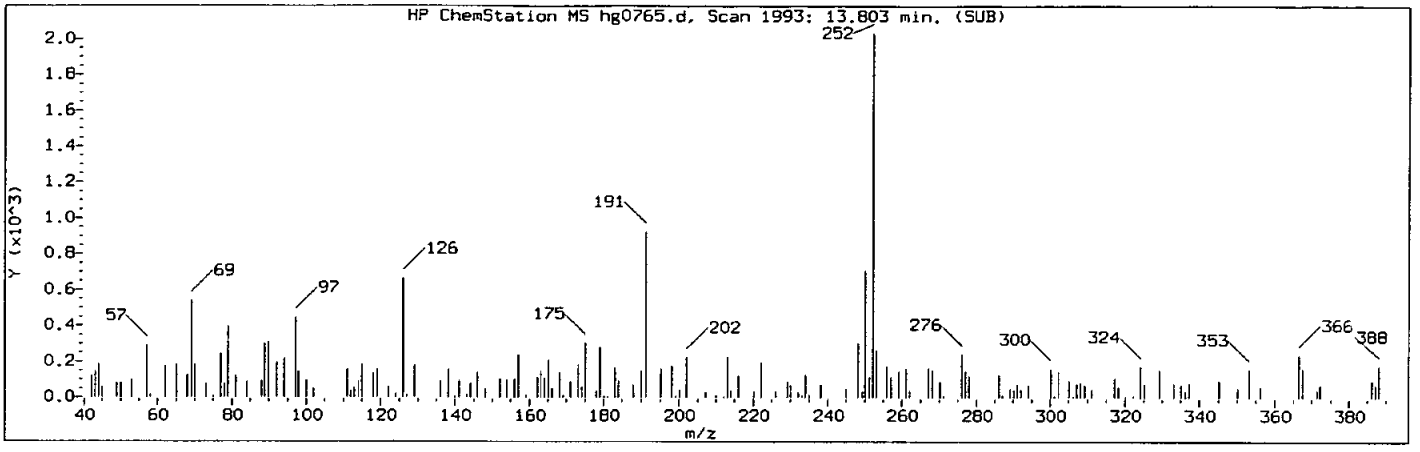
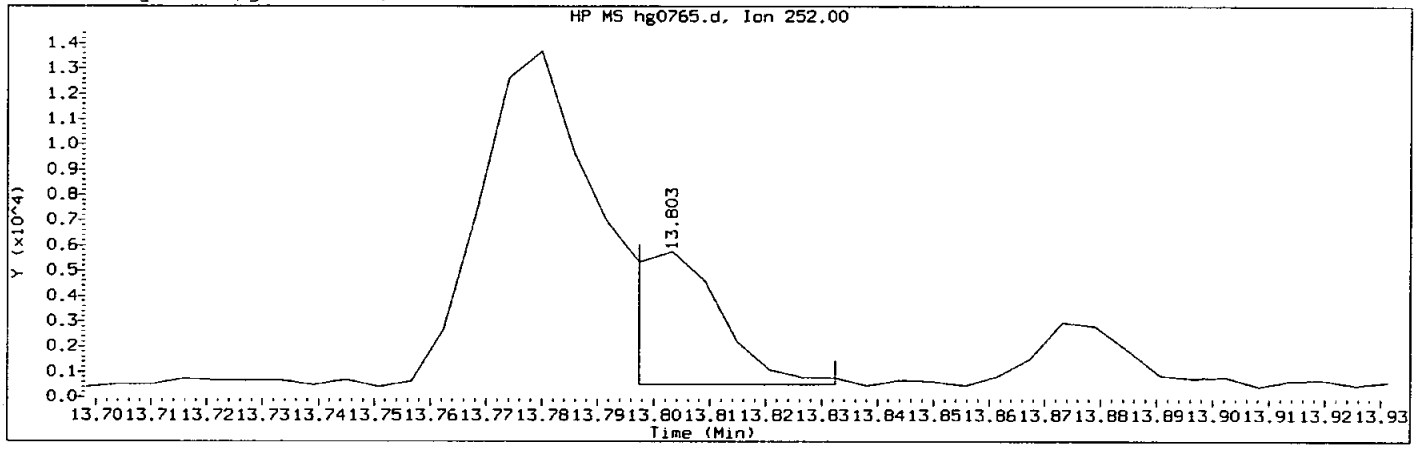
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721497

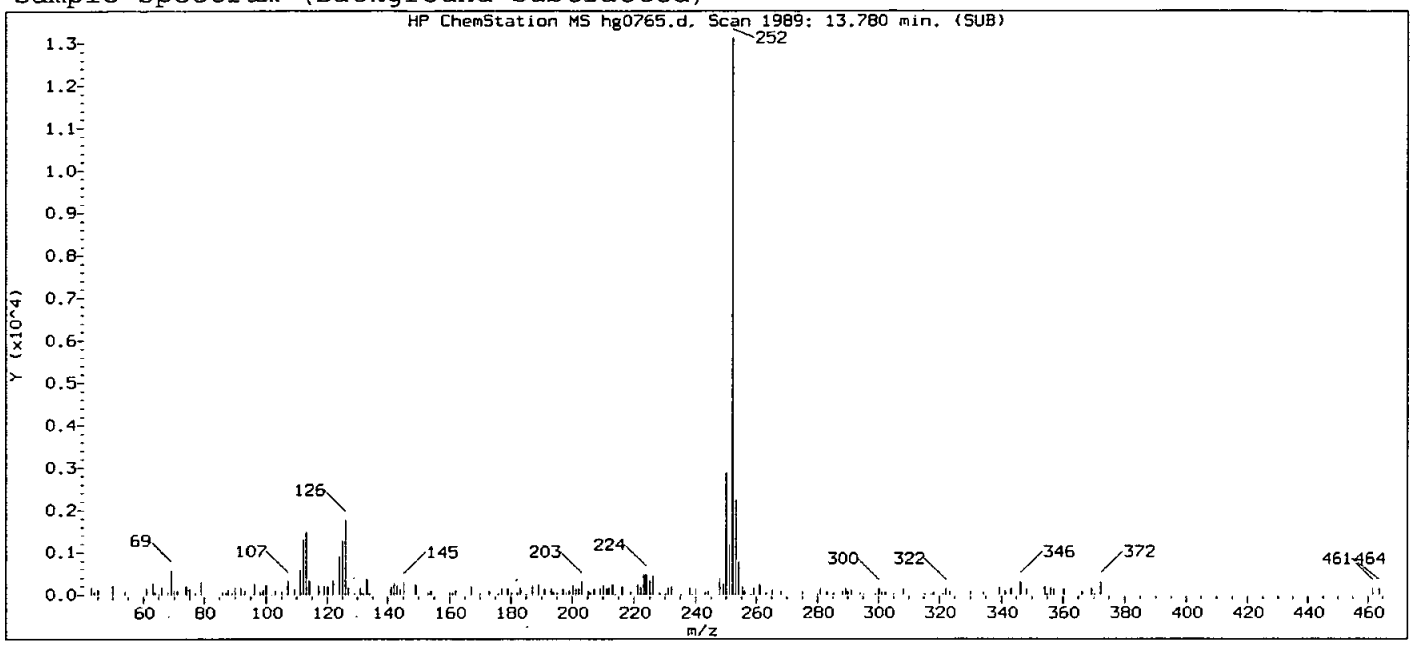
Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1993
Retention Time (minutes)	:	13.803
Quant Ion	:	252.00
Area (flag)	:	5963M
On-column Amount (ng/ul)	:	0.4310
Integration start scan	:	1991 Integration stop scan: 1997
Y at integration start	:	497 Y at integration end: 497

Reason for manual integration: improper integration

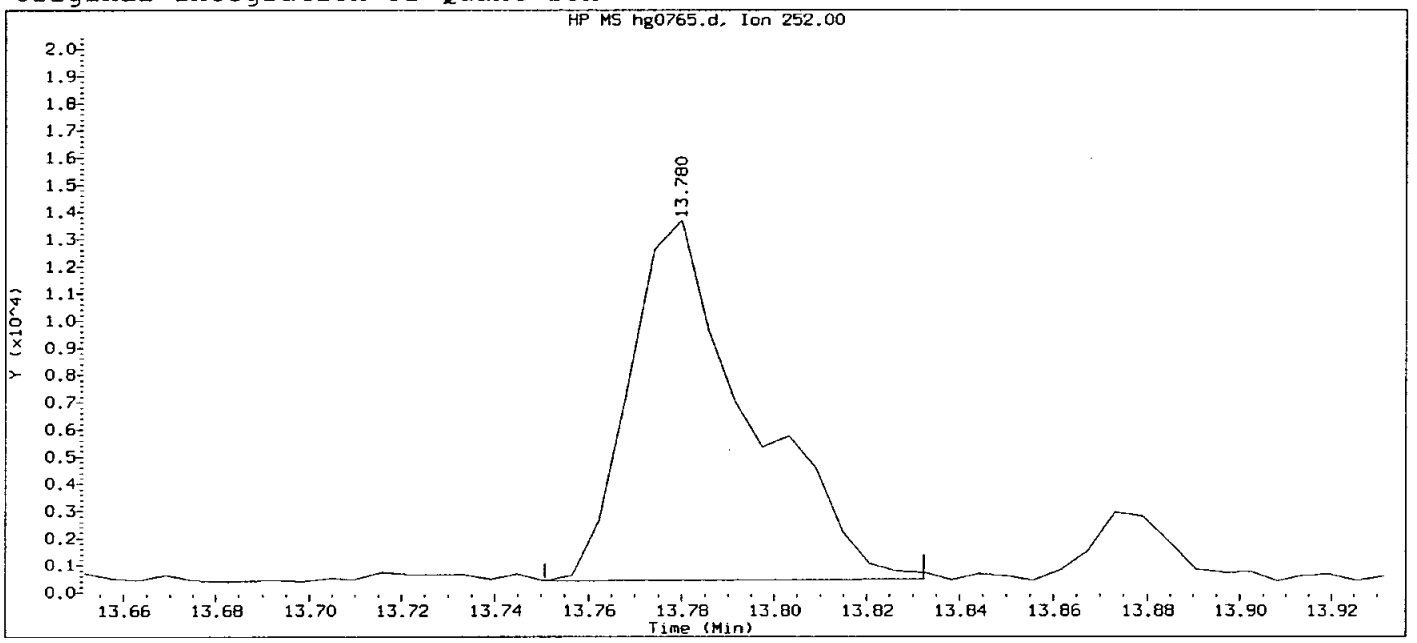
Analyst responsible for change: Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23. Target 3.5 esignature user ID: msw02109

Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:03.
Paralax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

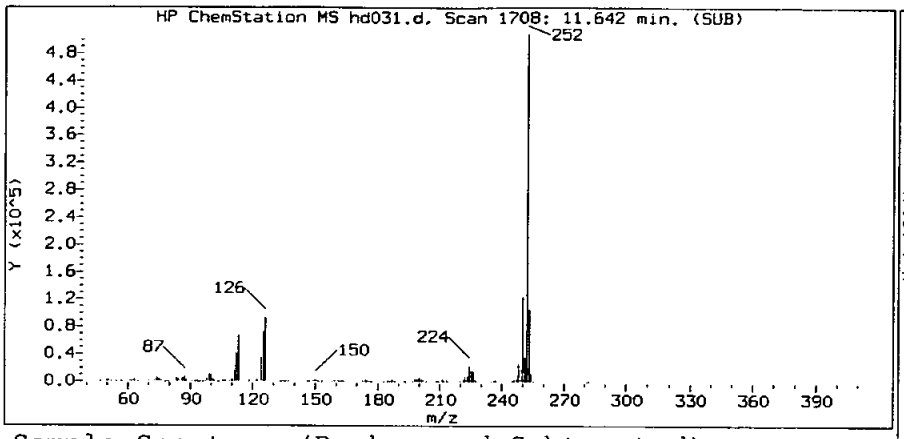
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:02 Automation

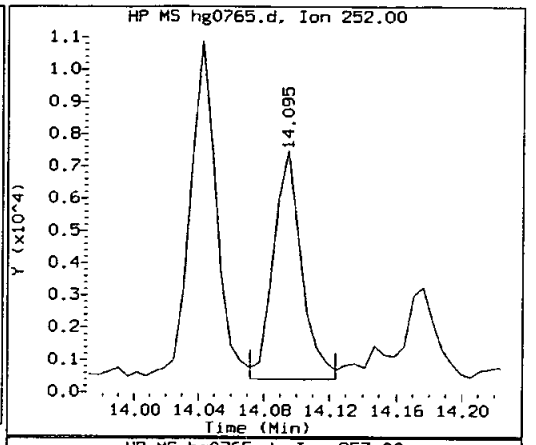
Sample Name: XXXXX Lab Sample ID: 6721497

Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1989
Retention Time (minutes)	:	13.780
Quant Ion	:	252.00
Area	:	23649
On-column Amount (ng/ul)	:	1.7093
Integration start scan	:	1983 Integration stop scan: 1997
Y at integration start	:	421 Y at integration end: 497

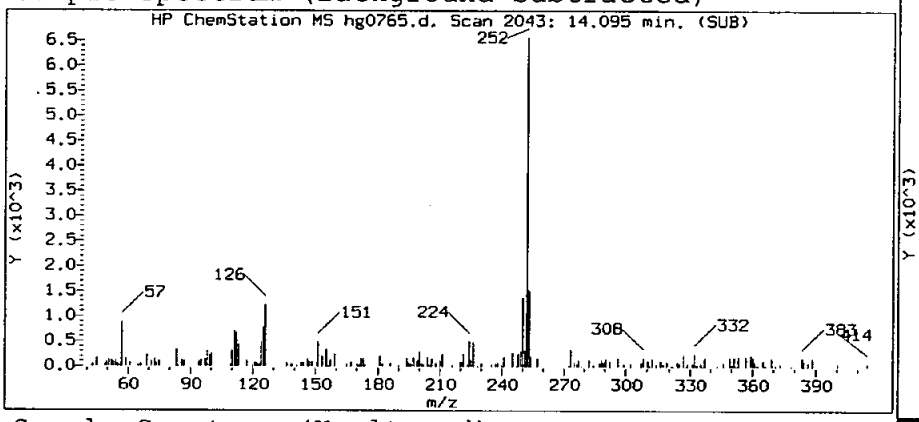
Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23:
Target 3.5 esignature user ID: msw02109

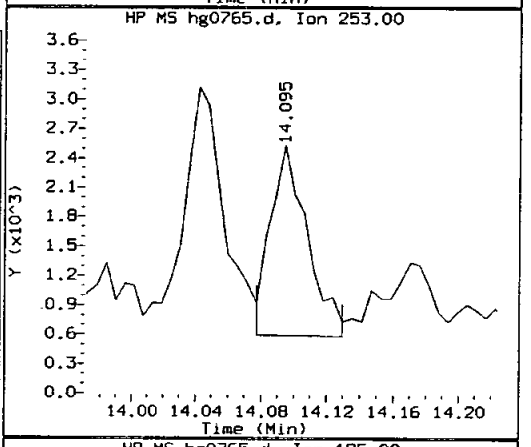
Reference Standard Spectrum for Benzo(a)pyrene



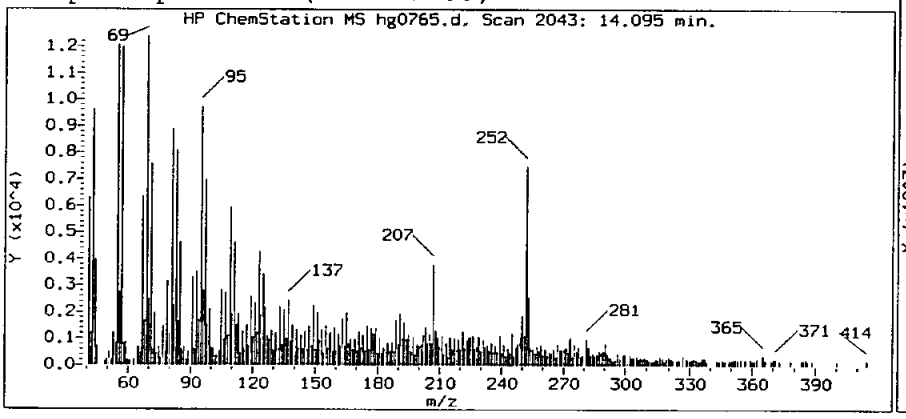


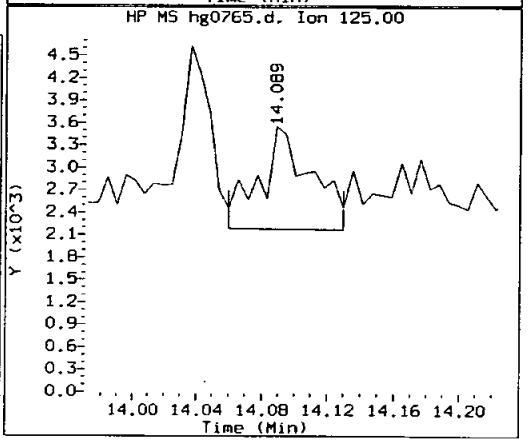
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

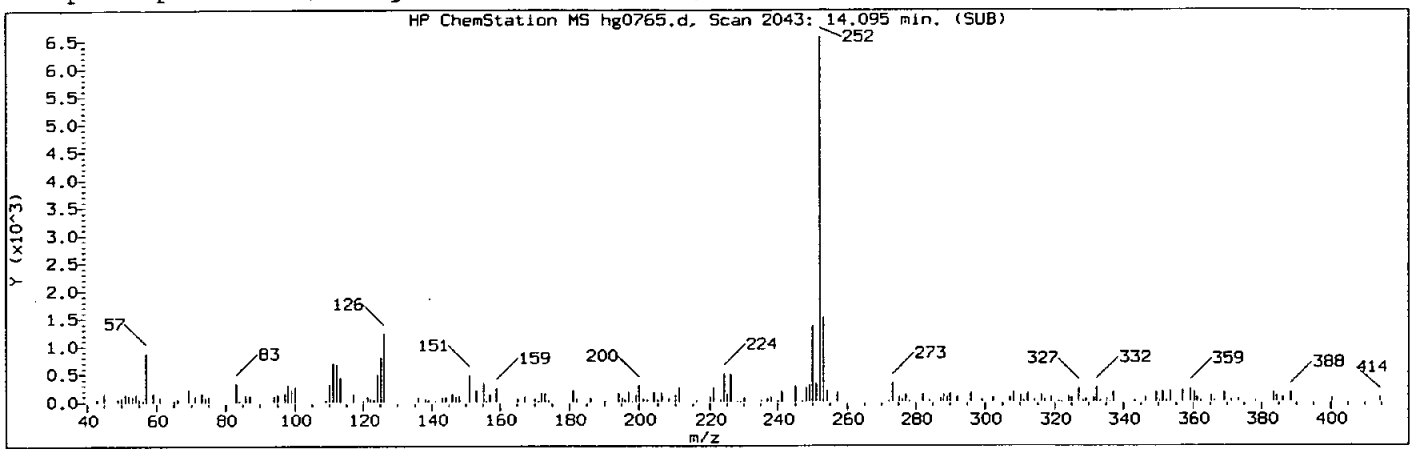
Sample Name: XXXXX

Lab Sample ID: 6721497

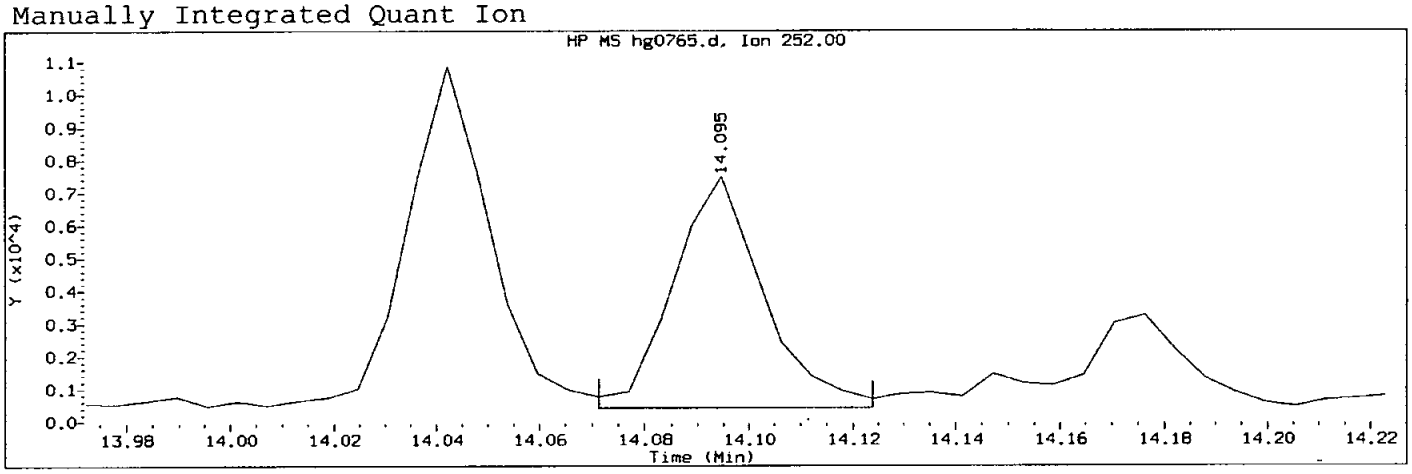
Compound Number	: 174
Compound Name	: Benzo(a)pyrene
Scan Number	: 2043
Retention Time (minutes)	: 14.095
Relative Retention Time	: 0.00041
Quant Ion	: 252.00
Area (flag)	: 8554M
On-column Amount (ng/ul)	: 0.6825

Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721497

Compound Number	: 174		
Compound Name	: Benzo(a)pyrene		
Scan Number	: 2043		
Retention Time (minutes)	: 14.095		
Quant Ion	: 252.00		
Area (flag)	: 8554M		
On-column Amount (ng/ul)	: 0.6825		
Integration start scan	: 2038	Integration stop scan:	2047
Y at integration start	: 422	Y at integration end:	419

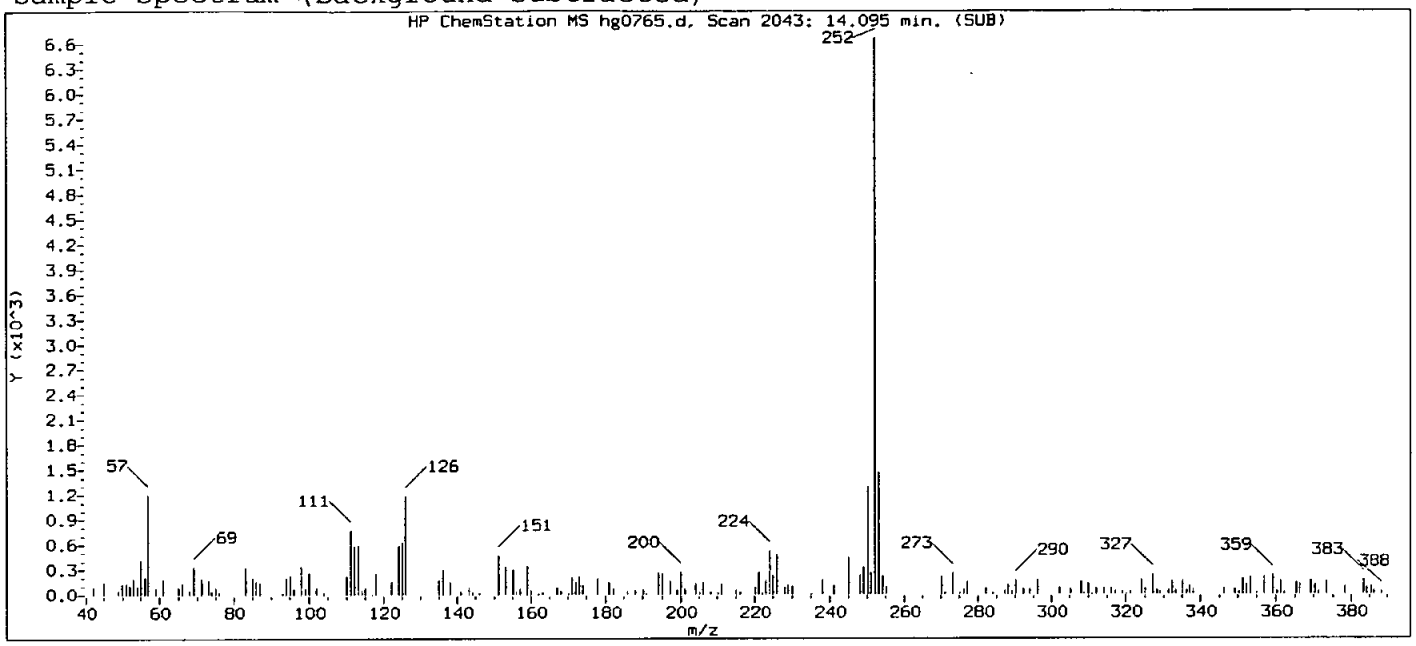
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23. Target 3.5 esignature user ID: msw02109

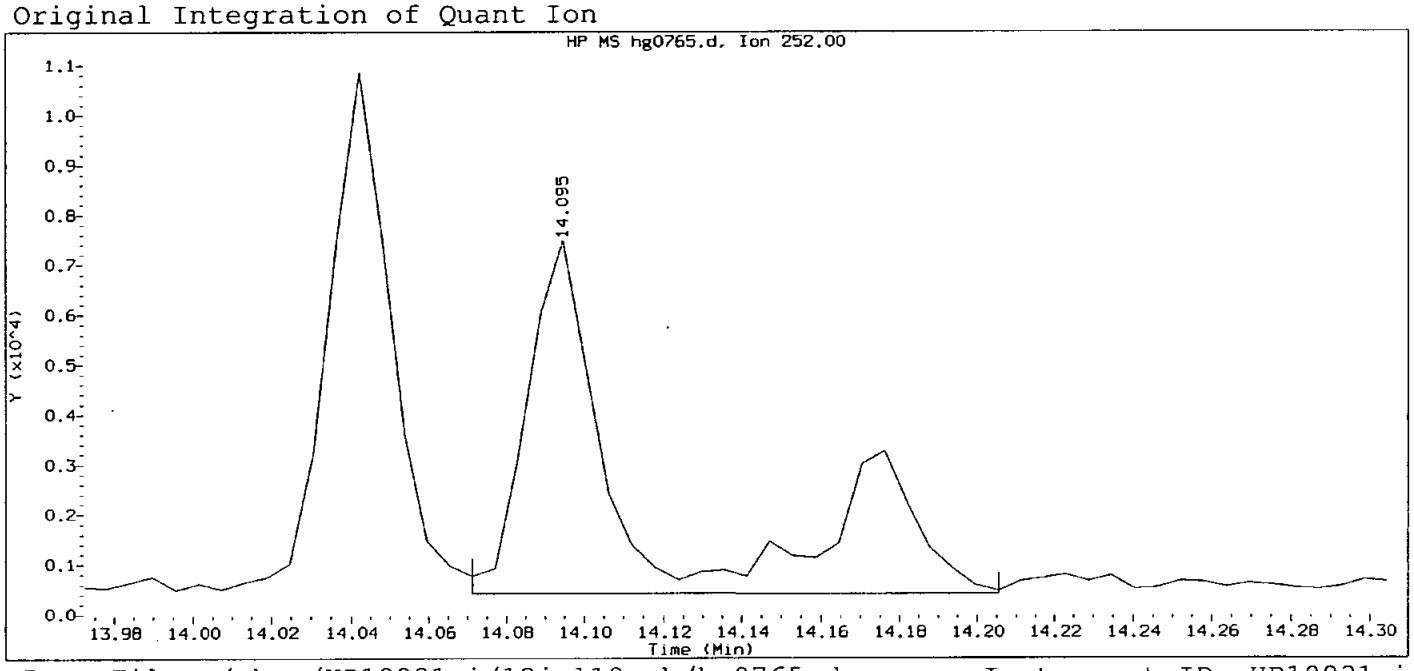
Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:03
Parallax ID: ild00415

ASX73 0611

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

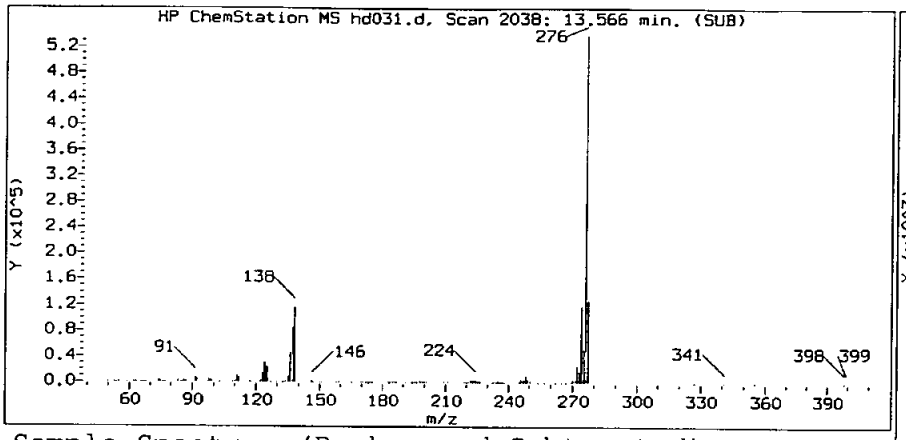
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:02 Automation

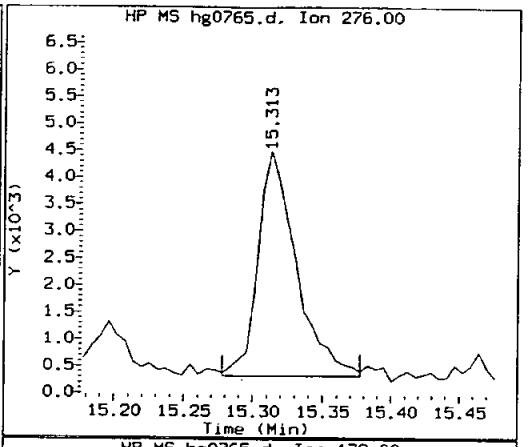
Sample Name: XXXXX Lab Sample ID: 6721497

Compound Number	: 174	
Compound Name	: Benzo(a)pyrene	
Scan Number	: 2043	
Retention Time (minutes)	: 14.095	
Quant Ion	: 252.00	
Area	: 13254	
On-column Amount (ng/ul)	: 1.0574	
Integration start scan	: 2038	Integration stop scan: 2061
Y at integration start	: 422	Y at integration end: 412

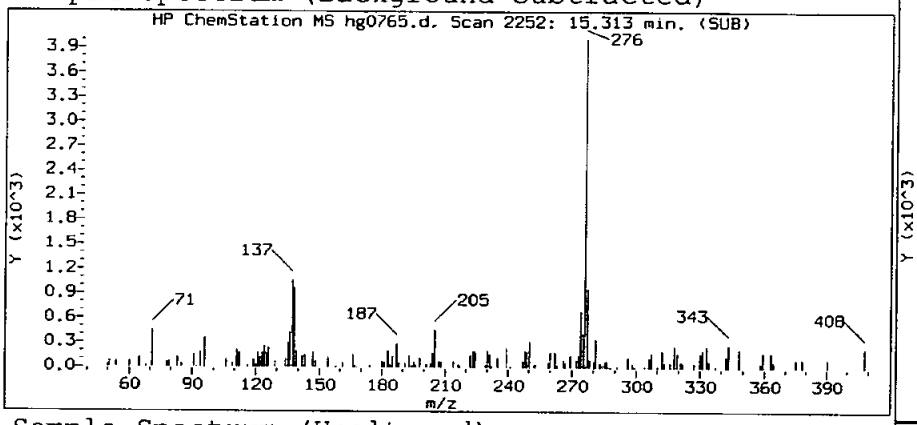
Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

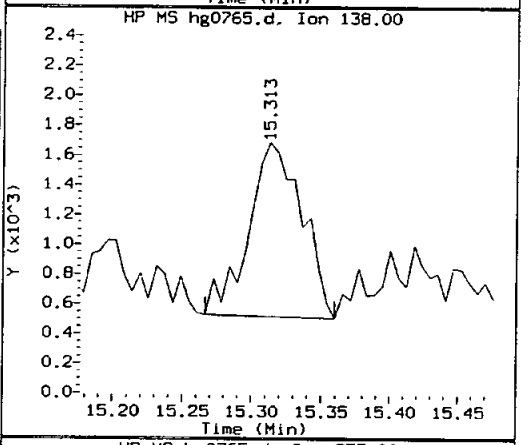
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



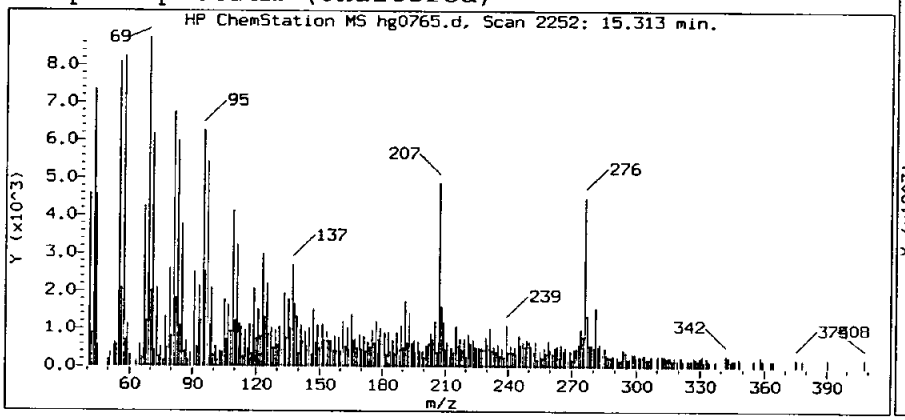


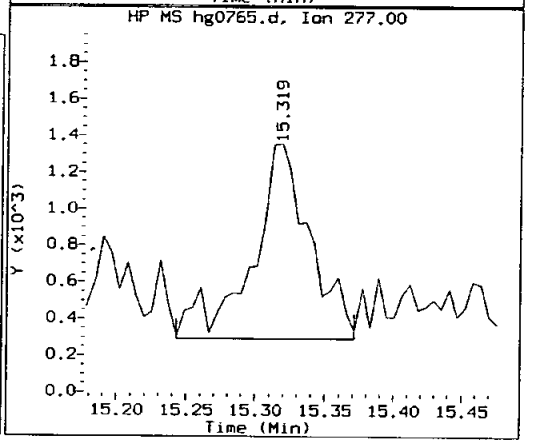
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

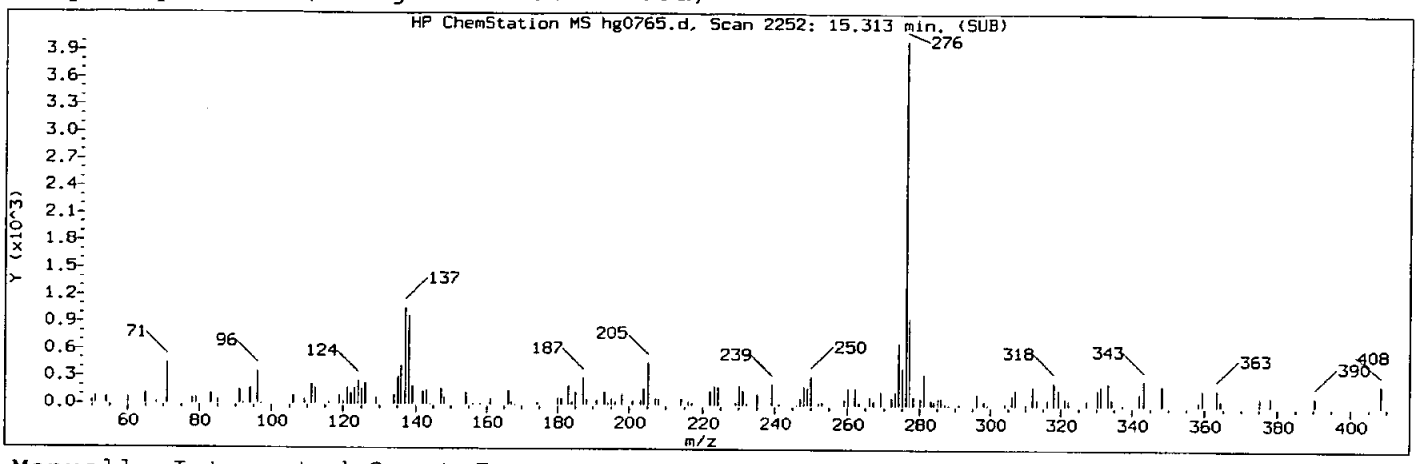
Sample Name: XXXXX

Lab Sample ID: 6721497

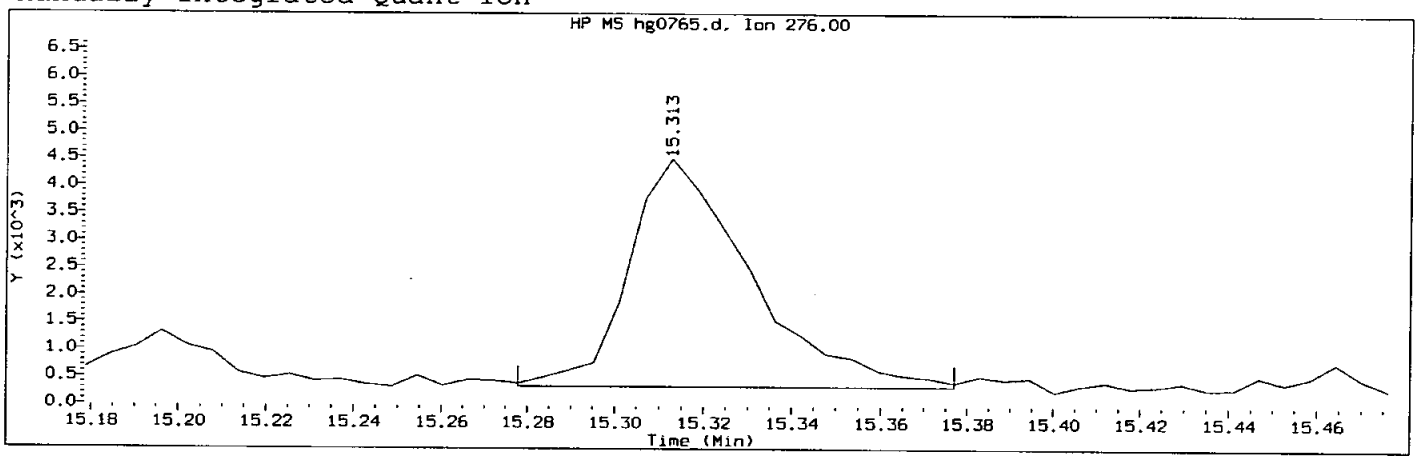
Compound Number	: 177
Compound Name	: Indeno(1,2,3-cd)pyrene
Scan Number	: 2252
Retention Time (minutes)	: 15.313
Relative Retention Time	: 0.00123
Quant Ion	: 276.00
Area (flag)	: 7975M
On-column Amount (ng/ul)	: 0.6583

Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721497

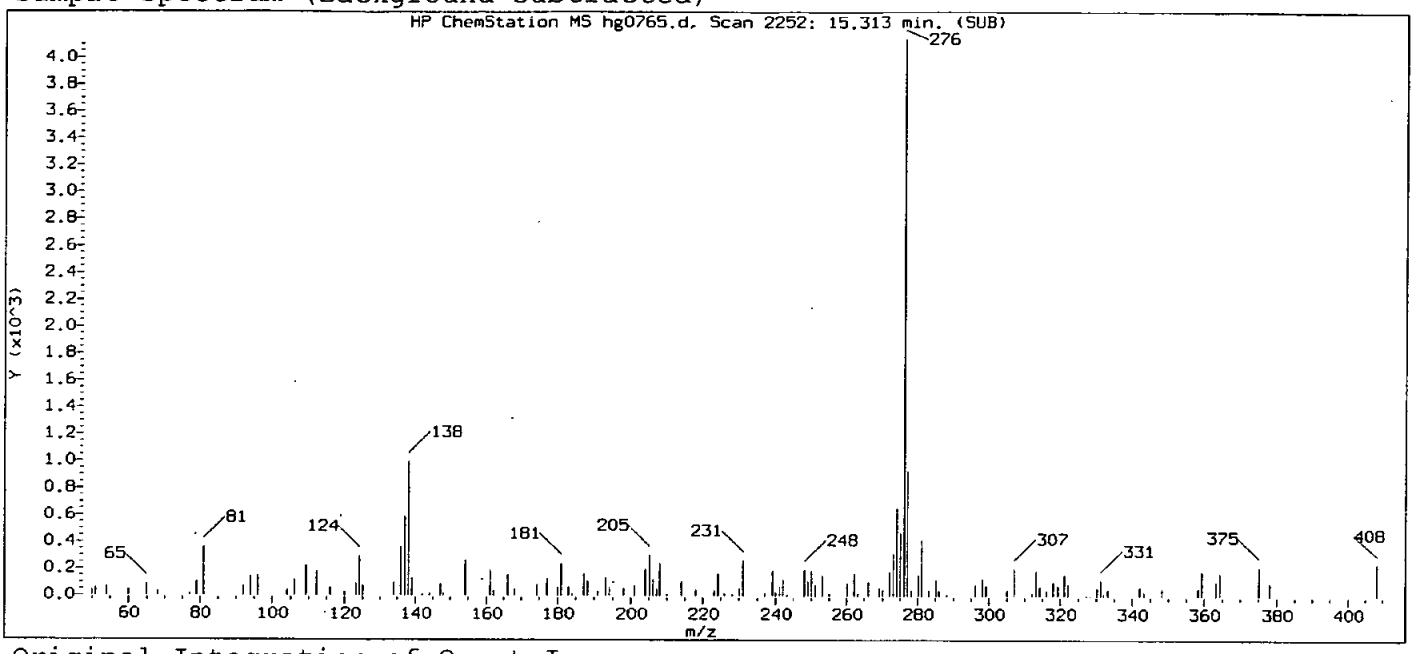
Compound Number	: 177		
Compound Name	: Indeno(1,2,3-cd)pyrene		
Scan Number	: 2252		
Retention Time (minutes)	: 15.313		
Quant Ion	: 276.00		
Area (flag)	: 7975M		
On-column Amount (ng/ul)	: 0.6583		
Integration start scan	: 2245	Integration stop scan:	2262
Y at integration start	: 328	Y at integration end:	328

Reason for manual integration: improper integration

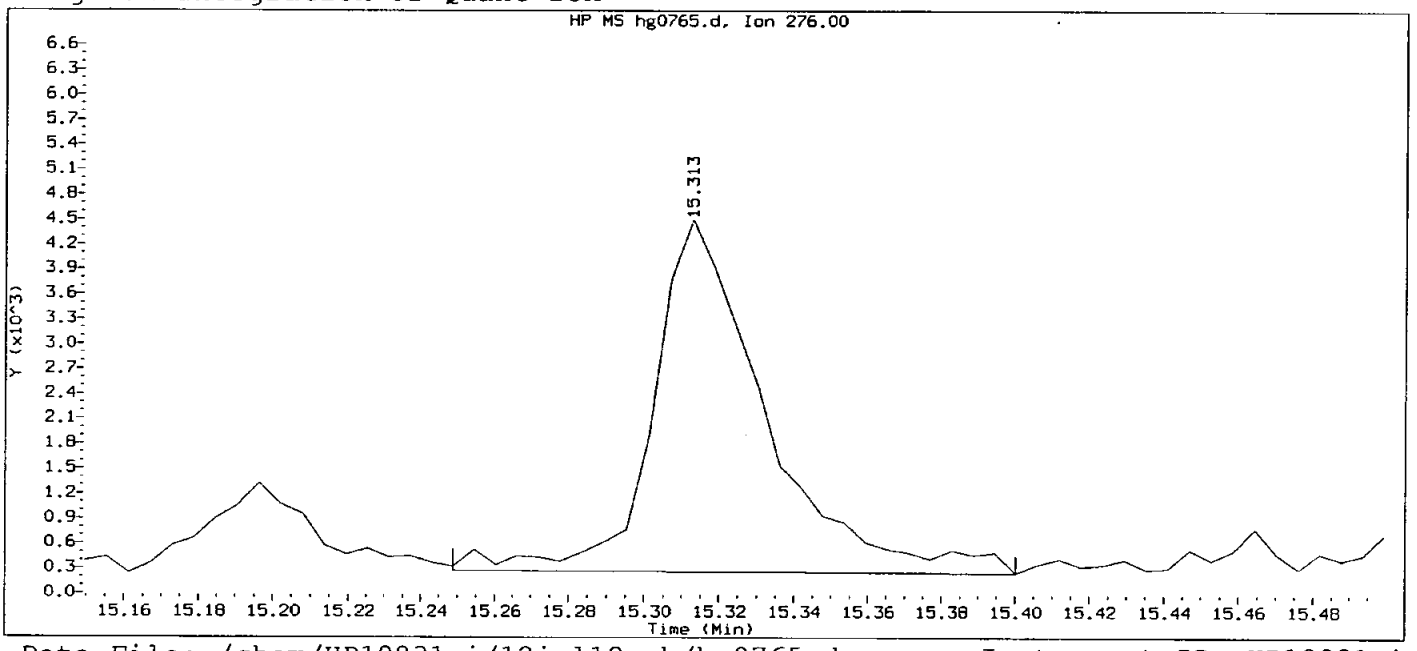
Analyst responsible for change: Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23. Target 3.5 esignature user ID: msw02109

Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:03. Parallax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

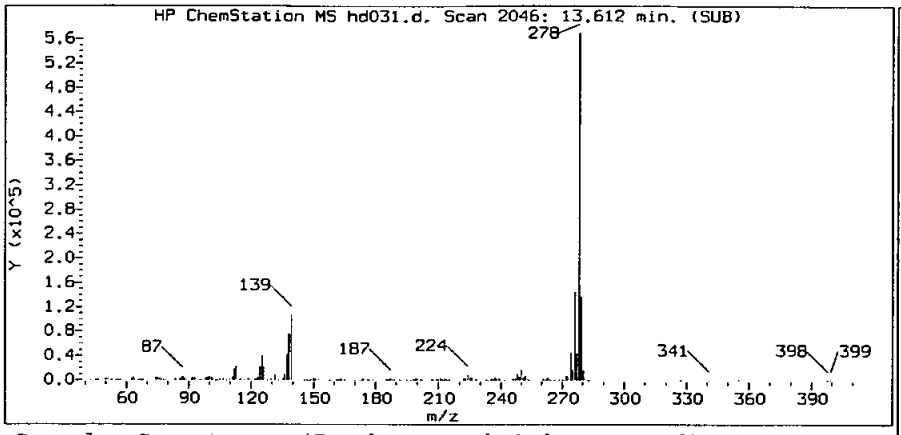
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:02 Automation

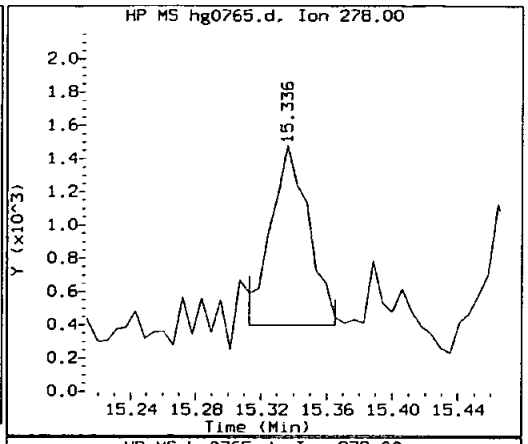
Sample Name: XXXXX Lab Sample ID: 6721497

Compound Number	:	177
Compound Name	:	Indeno(1,2,3-cd)pyrene
Scan Number	:	2252
Retention Time (minutes)	:	15.313
Quant Ion	:	276.00
Area	:	8926
On-column Amount (ng/ul)	:	0.7368
Integration start scan	:	2240
Integration stop scan	:	2266
Y at integration start	:	273
Y at integration end	:	242

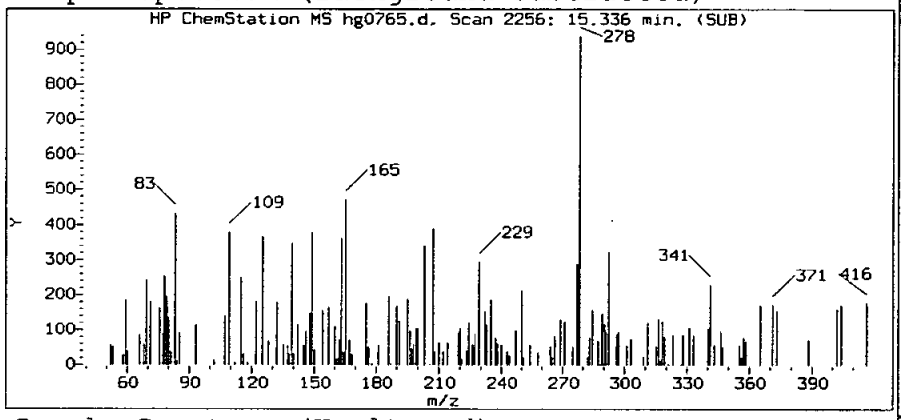
Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

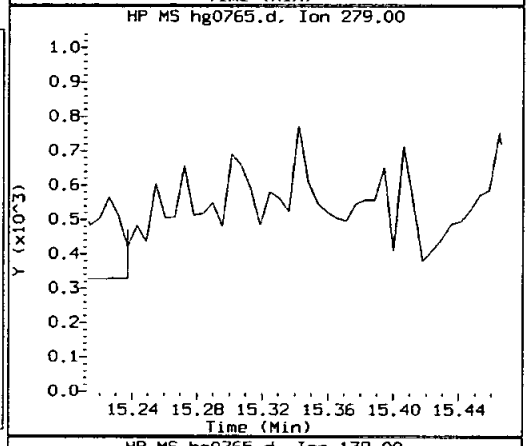
Reference Standard Spectrum for Dibenz(a,h)anthracene



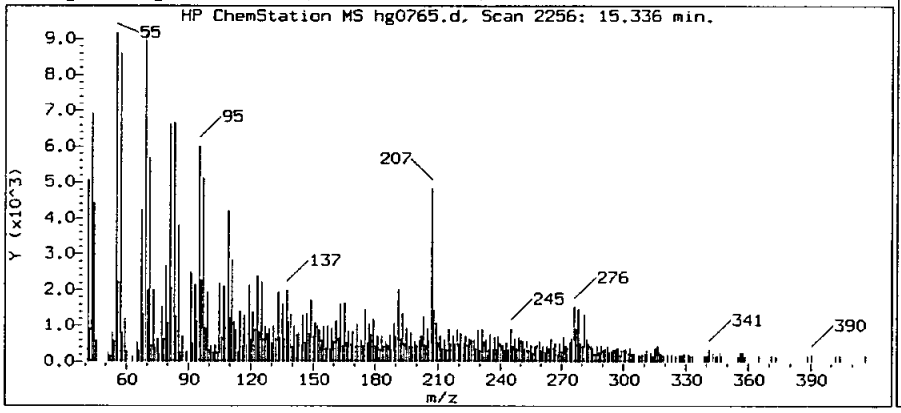


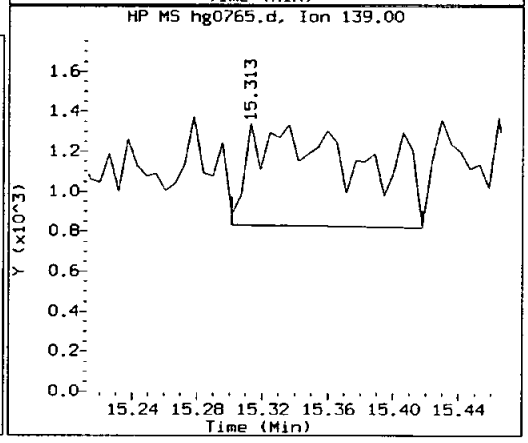
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

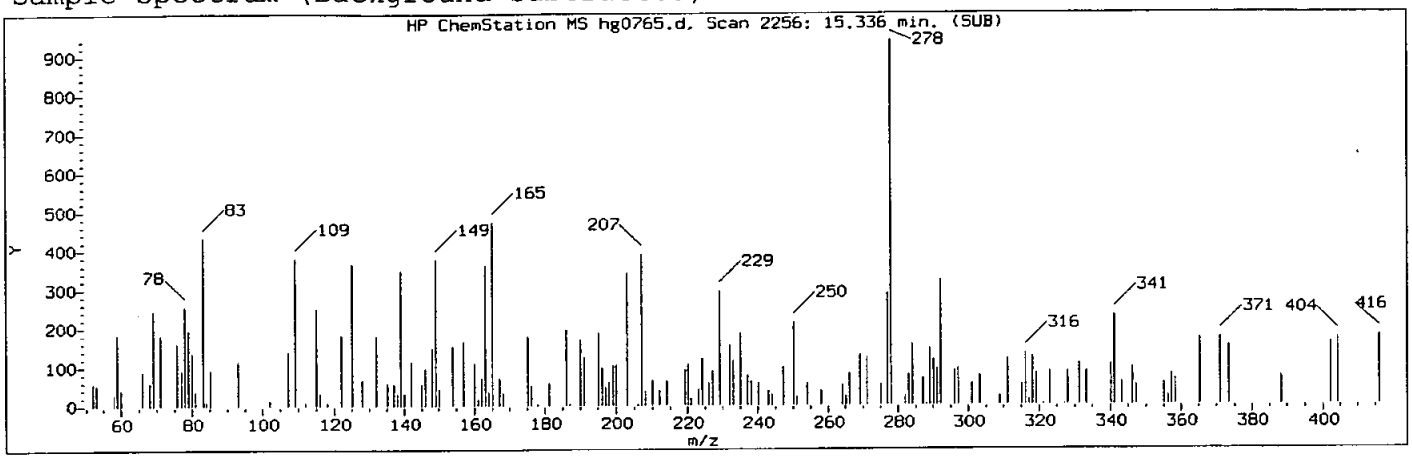
Sample Name: XXXXX

Lab Sample ID: 6721497

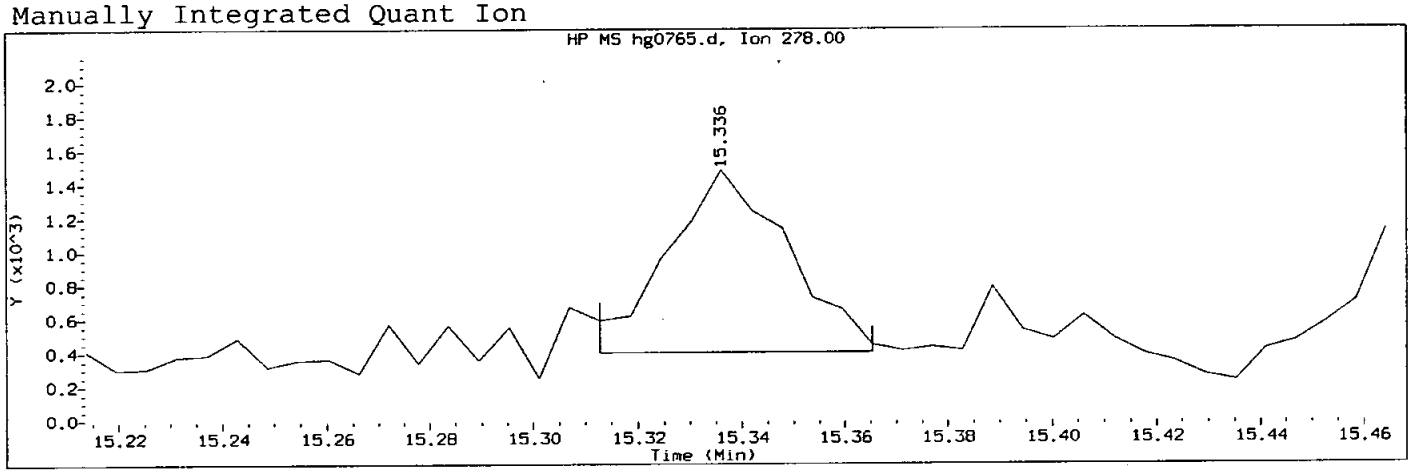
Compound Number	: 178
Compound Name	: Dibenz(a,h)anthracene
Scan Number	: 2256
Retention Time (minutes)	: 15.336
Relative Retention Time	: 0.00123
Quant Ion	: 278.00
Area (flag)	: 1757M
On-column Amount (ng/ul)	: 0.1765

Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721497

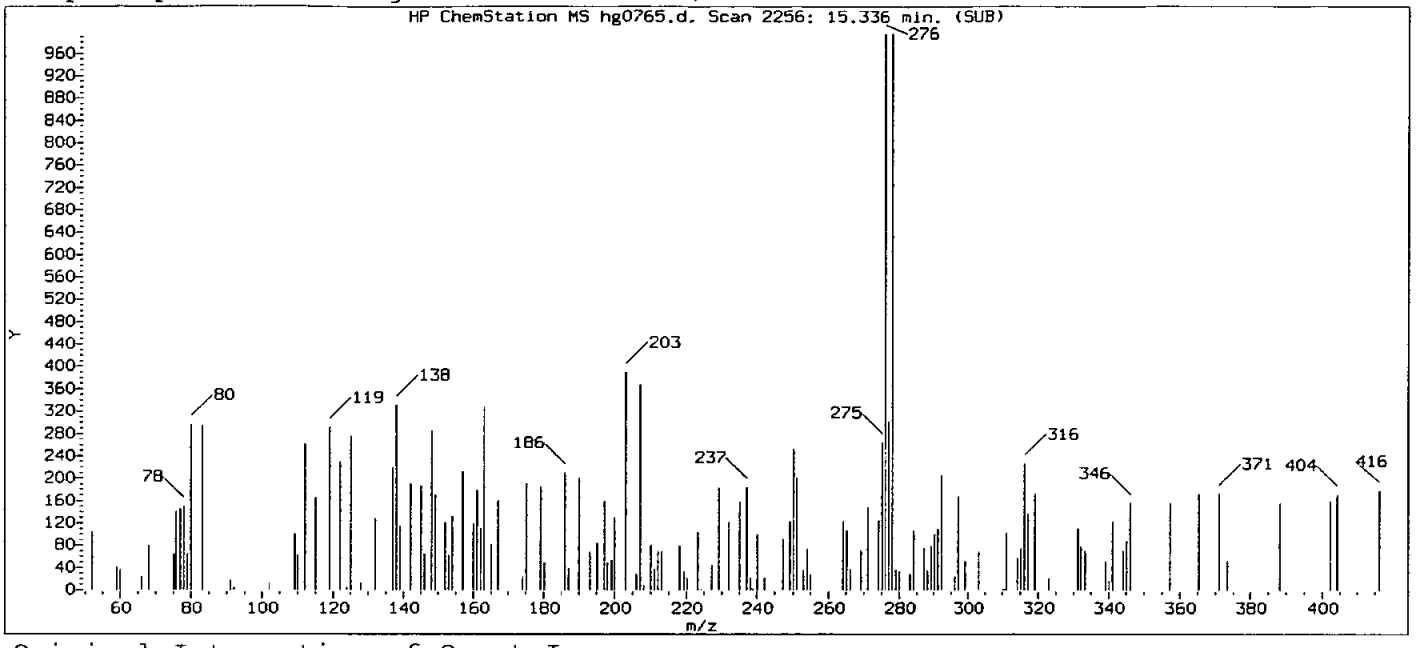
Compound Number	: 178		
Compound Name	: Dibenz(a,h)anthracene		
Scan Number	: 2256		
Retention Time (minutes)	: 15.336		
Quant Ion	: 278.00		
Area (flag)	: 1757M		
On-column Amount (ng/ul)	: 0.1765		
Integration start scan	: 2251	Integration stop scan:	2260
Y at integration start	: 401	Y at integration end:	401

Reason for manual integration: improper integration

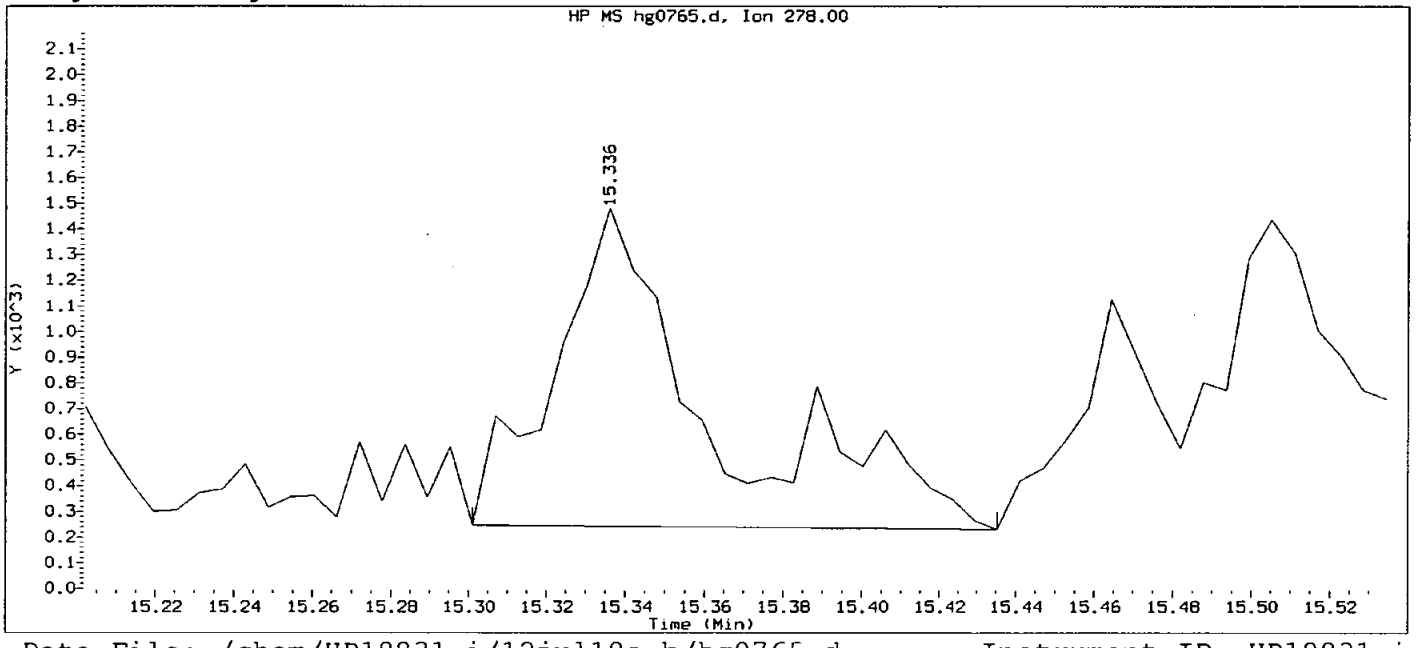
Analyst responsible for change: Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23. Target 3.5 esignature user ID: msw02109

Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:03
Parallax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

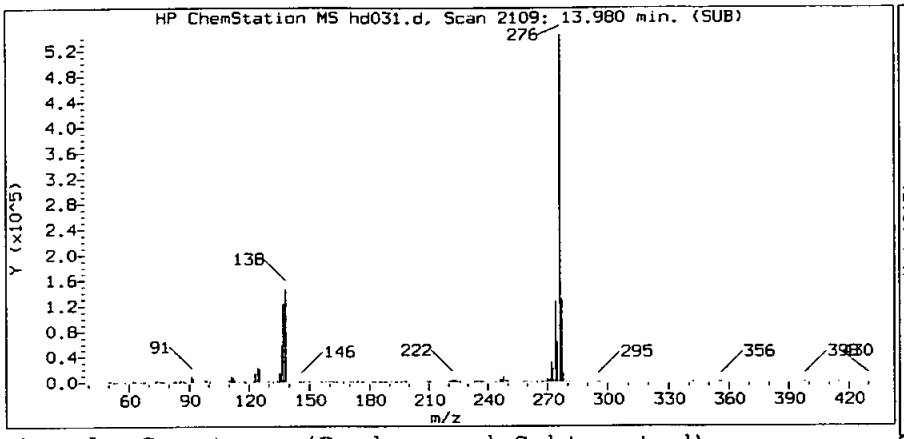
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:02 Automation

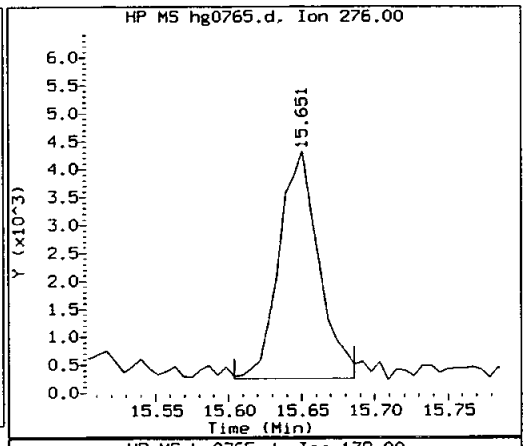
Sample Name: XXXXX Lab Sample ID: 6721497

Compound Number	: 178	
Compound Name	: Dibenz(a,h)anthracene	
Scan Number	: 2256	
Retention Time (minutes)	: 15.336	
Quant Ion	: 278.00	
Area	: 3359	
On-column Amount (ng/ul)	: 0.3375	
Integration start scan	: 2249	Integration stop scan: 2272
Y at integration start	: 248	Y at integration end: 230

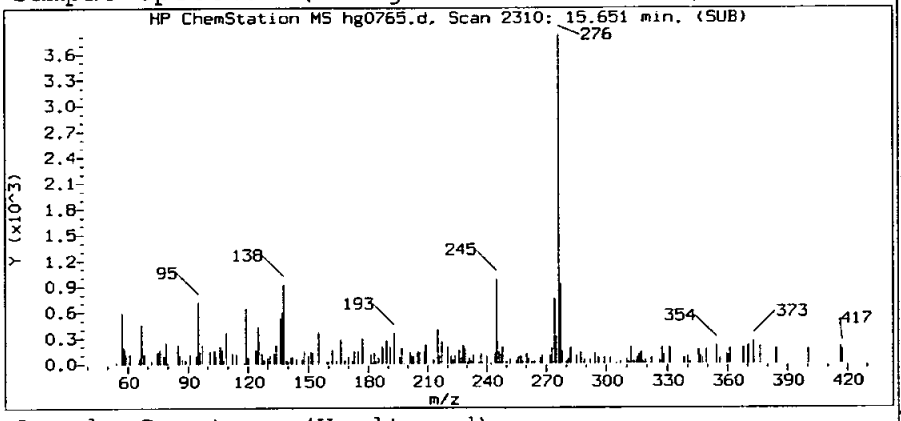
Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

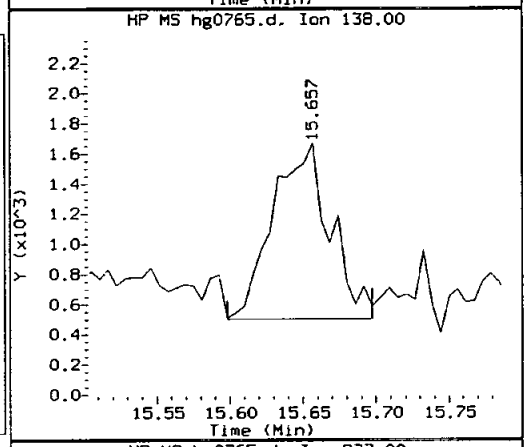
Reference Standard Spectrum for Benzo(g,h,i)perylene



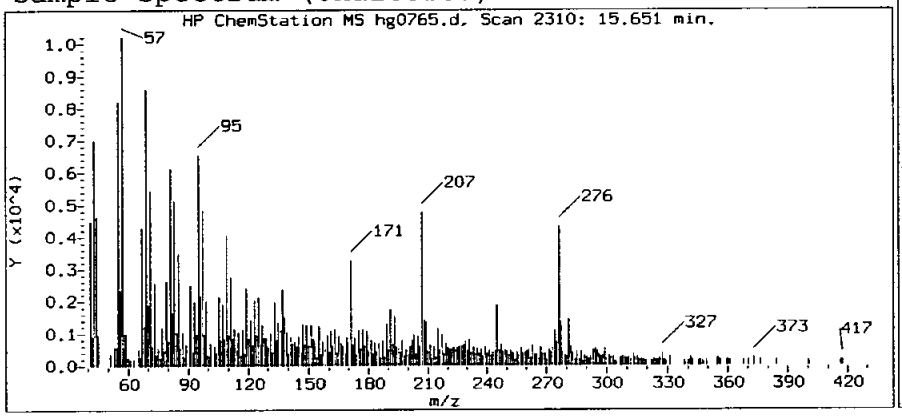


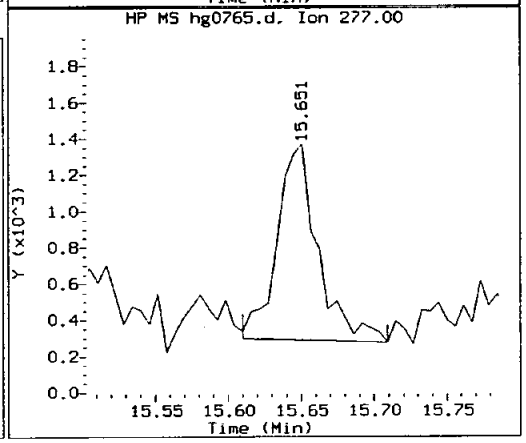
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0765.d
Injection date and time: 19-JUL-2012 03:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

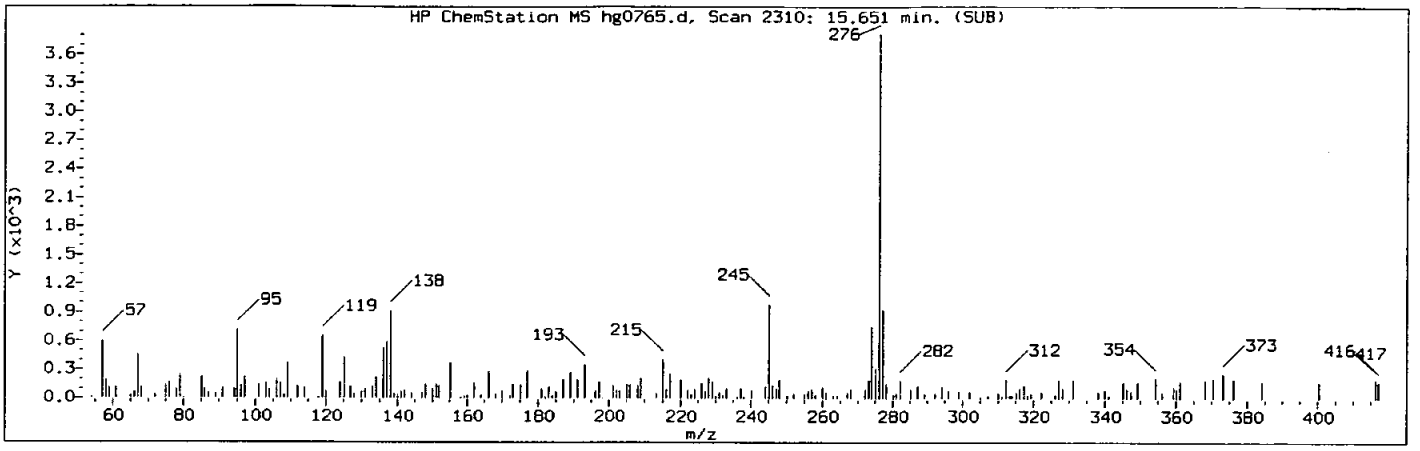
Sample Name: XXXXX

Lab Sample ID: 6721497

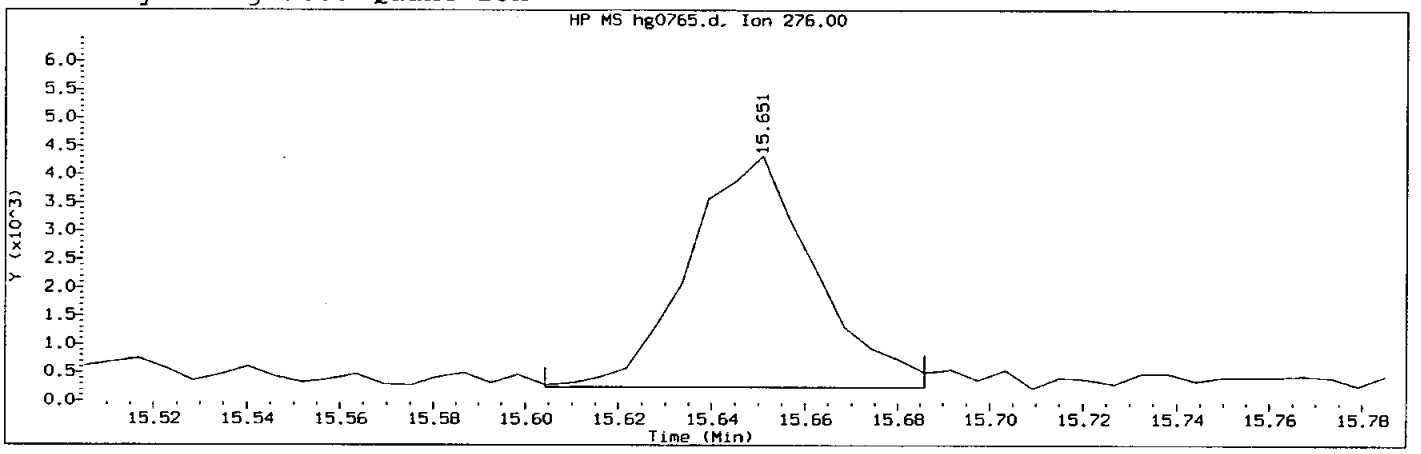
Compound Number	: 179
Compound Name	: Benzo(g,h,i)perylene
Scan Number	: 2310
Retention Time (minutes)	: 15.651
Relative Retention Time	: 0.00082
Quant Ion	: 276.00
Area (flag)	: 7686M
On-column Amount (ng/ul)	: 0.7513

Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:19 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721497

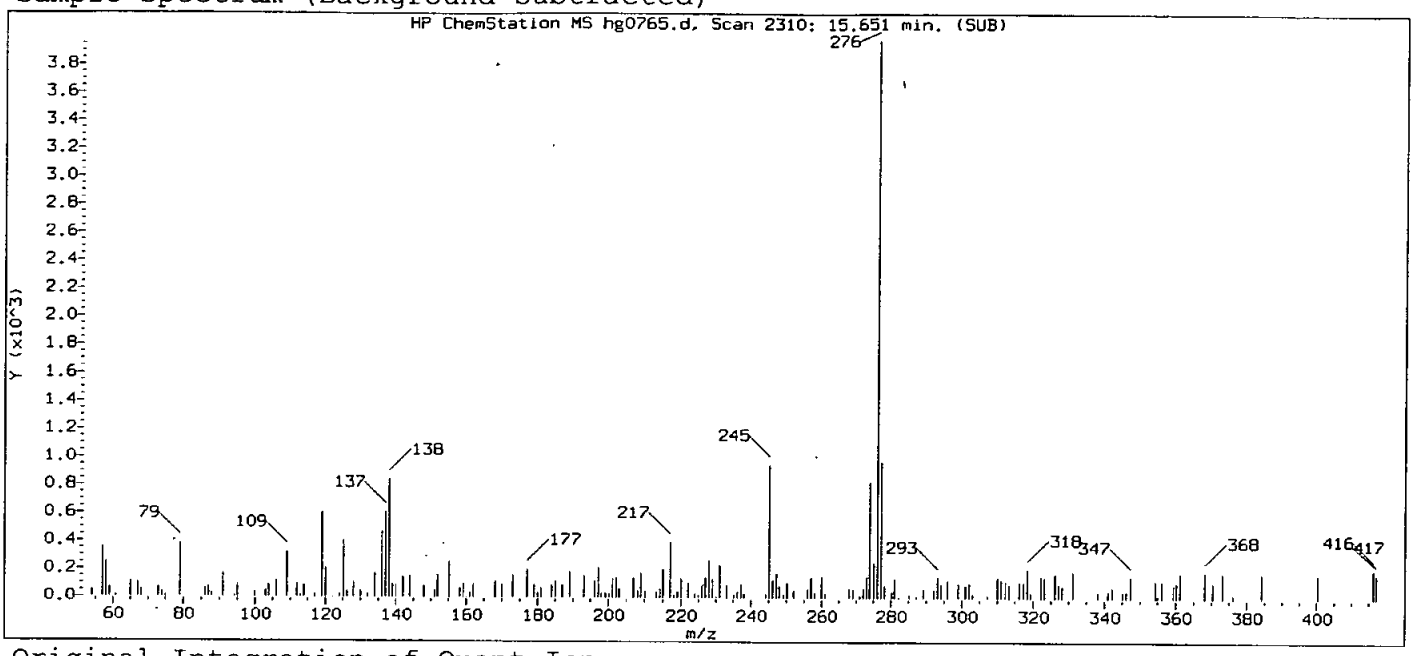
Compound Number	:	179
Compound Name	:	Benzo(g,h,i)perylene
Scan Number	:	2310
Retention Time (minutes)	:	15.651
Quant Ion	:	276.00
Area (flag)	:	7686M
On-column Amount (ng/ul)	:	0.7513
Integration start scan	:	2301 Integration stop scan: 2315
Y at integration start	:	249 Y at integration end: 249

Reason for manual integration: improper integration

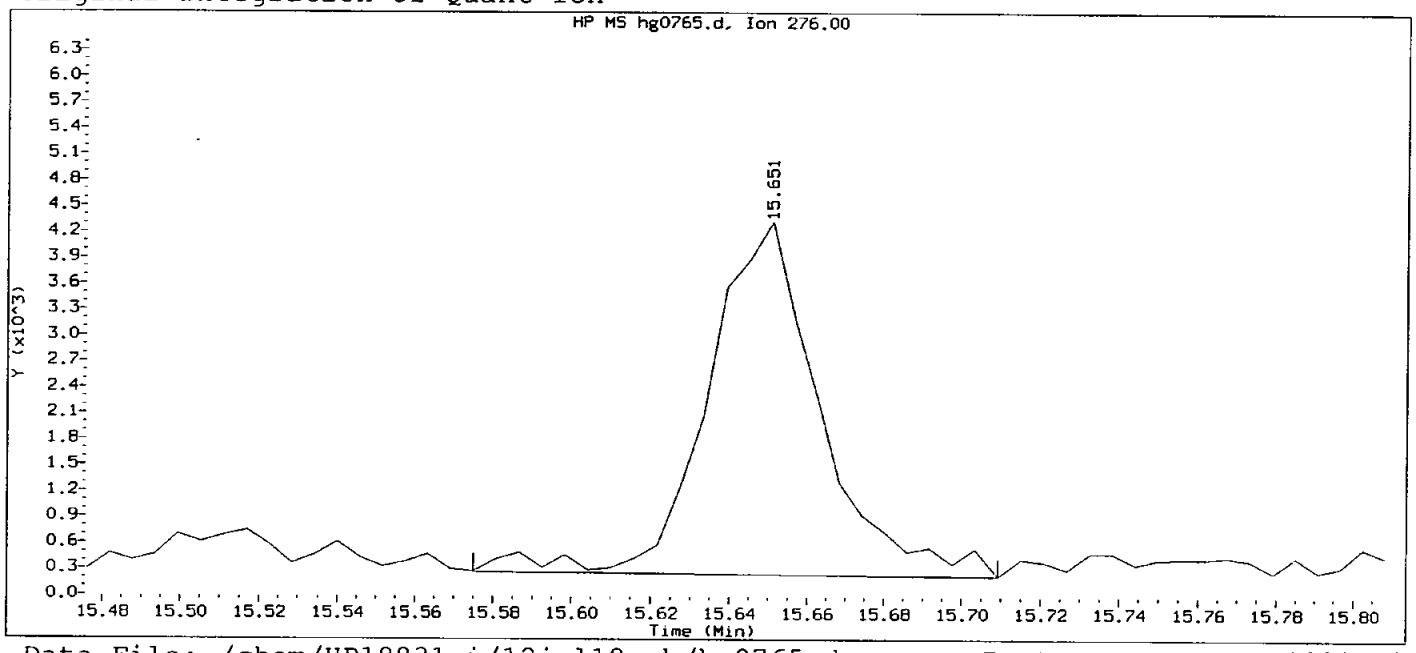
Analyst responsible for change: Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23. Target 3.5 esignature user ID: msw02109

Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:03
Parallax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0765.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 03:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:02 Automation

Sample Name: XXXXX Lab Sample ID: 6721497

Compound Number	:	179
Compound Name	:	Benzo(g,h,i)perylene
Scan Number	:	2310
Retention Time (minutes)	:	15.651
Quant Ion	:	276.00
Area	:	8242
On-column Amount (ng/ul)	:	0.8057
Integration start scan	:	2296 Integration stop scan: 2319
Y at integration start	:	260 Y at integration end: 223

Digitally signed by Matthew S. Woods on 07/20/2012 at 07:23.
Target 3.5 esignature user ID: msw02109

ASX73 0621

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6721503

Data file: /chem/HP18831.i/12jul18a.b/hg0768.d
Data file Sample Info. Line: XXXXX;6721503;
Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Injection date and time: **19-JUL-2012 04:52**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 1 GpcCleanup (No = 0, Yes = 1): 0 Unit Correction Factor (Uf): 1
Final Extract Volume (Vt): 1000 ul Volume Injected (Vi): 1 ul Sample Weight (Ws): 30.5 g

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	5.684	(0.000)	600	152	107698	(-9)	20.00	
52) Naphthalene-d8	6.920	(0.000)	812	136	434262	(-13)	20.00	
98) Acenaphthene-d10	8.639	(0.000)	1107	164	245724	(-17)	20.00	
135) Phenanthrene-d10	10.090	(0.006)	1356	188	411856	(-17)	20.00	
167) Pyrene-d10	11.483	(0.000)	1595	212	408870	(-26)	20.00	
175) Perylene-d12	14.159	(-0.006)	2054	264	208002	(-43)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
9) 2-Fluorophenol	(1)	4.431	(-0.005)	112	1372963	151.294	76%		48 - 136
15) Phenol-d6	(1)	5.358	(-0.002)	99	1927085	149.937	75%		42 - 130
38) Nitrobenzene-d5	(2)	6.226	(0.000)	82	924051	77.299	77%		45 - 123
78) 2-Fluorobiphenyl	(3)	7.986	(0.000)	172	1310718	79.955	80%		56 - 121
119) 2,4,6-Tribromophenol	(3)	9.414	(0.000)	330	234839	149.534	75%		28 - 139
156) Terphenyl-d14	(5)	11.676	(0.000)	244	1194971	87.289	87%		36 - 135

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
16) Phenol	(1)				Not Detected					0.5
18) bis(2-Chloroethyl)ether	(1)				Not Detected					0.5
19) 2-Chlorophenol	(1)				Not Detected					0.5
20) 1,3-Dichlorobenzene	(1)				Not Detected					0.5
22) 1,4-Dichlorobenzene	(1)				Not Detected					0.5
25) 1,2-Dichlorobenzene	(1)				Not Detected					0.5
26) 2-Methylphenol	(1)				Not Detected					0.5
27) 2,2'-oxybis(1-Chloropropane)	(1)				Not Detected					0.5
31) N-Nitroso-di-n-propylamine	(1)				Not Detected					0.5
33) 4-Methylphenol	(1)				Not Detected					0.5
37) Hexachloroethane	(1)				Not Detected					1
39) Nitrobenzene	(2)				Not Detected					0.5
41) Isophorone	(2)				Not Detected					0.5
42) 2-Nitrophenol	(2)				Not Detected					0.5
44) 2,4-Dimethylphenol	(2)				Not Detected					0.5
46) bis(2-Chloroethoxy)methane	(2)				Not Detected					0.5
49) 2,4-Dichlorophenol	(2)				Not Detected					0.5
50) 1,2,4-Trichlorobenzene	(2)				Not Detected					0.5
53) Naphthalene	(2)	6.937	(0.000)	128	24417M	0.987	32.36			0.1
56) 4-Chloroaniline	(2)				Not Detected					0.5
60) Hexachlorobutadiene	(2)				Not Detected					0.5
68) 4-Chloro-3-methylphenol	(2)				Not Detected					0.5
70) 2-Methylnaphthalene	(2)	7.619	(-0.000)	142	21390	1.416	46.42			0.1
72) Hexachlorocyclopentadiene	(3)				Not Detected					5
75) 2,4,6-Trichlorophenol	(3)				Not Detected					0.5
77) 2,4,5-Trichlorophenol	(3)				Not Detected					0.5
84) 2-Chloronaphthalene	(3)				Not Detected					0.2

M = Compound was manually integrated.

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20. Target 3.5 esignature user ID: jmg00346

ASX73 0622

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6721503

Data file: /chem/HP18831.i/12jul18a.b/hg0768.d
Data file Sample Info. Line: XXXXX;6721503;
Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Injection date and time: **19-JUL-2012 04:52**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 1 GpcCleanup (No = 0, Yes = 1): 0 Unit Correction Factor (Uf): 1
Final Extract Volume (Vt): 1000 ul Volume Injected (Vi): 1 ul Sample Weight (Ws): 30.5 g

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
89) 2-Nitroaniline	(3)			Not Detected					0.5
92) Dimethylphthalate	(3)			Not Detected					2
94) 2,6-Dinitrotoluene	(3)			Not Detected					0.5
95) Acenaphthylene	(3)	8.499(-0.000)	152	27361	1.272	41.71			0.1
97) 3-Nitroaniline	(3)			Not Detected					2
99) Acenaphthene	(3)	8.668(-0.000)	153	3728M	0.253	8.30			0.1
100) 2,4-Dinitrophenol	(3)			Not Detected					10
103) 4-Nitrophenol	(3)			Not Detected					5
104) Dibenzofuran	(3)	8.837(0.000)	168	14513M	0.695	22.78			0.5
105) 2,4-Dinitrotoluene	(3)			Not Detected					2
109) Diethylphthalate	(3)			Not Detected					2
111) Fluorene	(3)	9.175(-0.000)	166	4270	0.256	8.39			0.1
112) 4-Chlorophenyl-phenylether	(3)			Not Detected					0.5
114) 4-Nitroaniline	(3)			Not Detected					2
115) 4,6-Dinitro-2-methylphenol	(4)			Not Detected					5
117) N-Nitrosodiphenylamine	(4)			Not Detected					0.5
125) 4-Bromophenyl-phenylether	(4)			Not Detected					0.5
127) Hexachlorobenzene	(4)			Not Detected					0.1
131) Pentachlorophenol	(4)			Not Detected					1
137) Phenanthrene	(4)	10.114(-0.000)	178	74520	3.140	102.96			0.1
138) Anthracene	(4)	10.166(-0.000)	178	37846	1.614	52.92			0.1
140) Carbazole	(4)	10.324(-0.000)	167	14801	0.662	21.71			0.5
142) Di-n-butylphthalate	(4)			Not Detected					2
147) Fluoranthene	(4)	11.279(-0.000)	202	127126	5.401	177.09			0.1
154) Pyrene	(5)	11.501(0.000)	202	115448	4.920	161.30			0.1
161) Butylbenzylphthalate	(5)			Not Detected					2
164) 3,3'-Dichlorobenzidine	(5)			Not Detected					3
166) Benzo(a)anthracene	(5)	12.696(0.000)	228	50294	2.920	95.75			0.1
168) Chrysene	(5)	12.737(-0.000)	228	94937	5.469	179.32			0.1
169) bis(2-Ethylhexyl)phthalate	(5)			Not Detected					2
170) Di-n-octylphthalate	(6)			Not Detected					2
172) Benzo(b)fluoranthene	(6)	13.786(0.000)	252	104892M	7.970	261.30			0.1
173) Benzo(k)fluoranthene	(6)	13.797(0.001)	252	49826M	3.825	125.40			0.1
174) Benzo(a)pyrene	(6)	14.100(0.000)	252	41065	3.479	114.08			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	15.324(0.000)	276	38668	3.390	111.13			0.1
178) Dibenz(a,h)anthracene	(6)	15.348(0.000)	278	8275M	0.883	28.95			0.1
179) Benzo(g,h,i)perylene	(6)	15.657(0.000)	276	33625	3.491	114.45			0.1

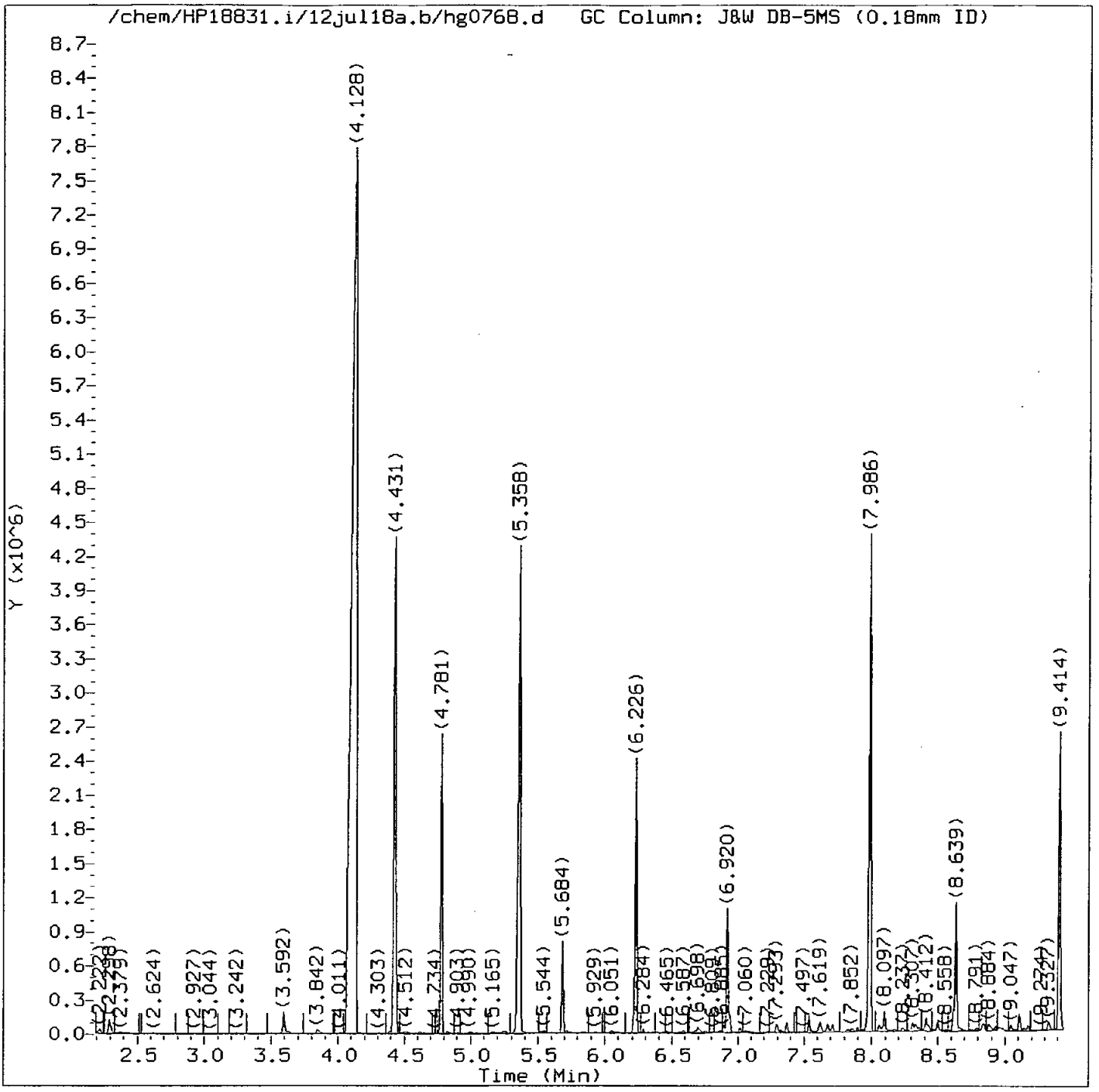
M = Compound was manually integrated.

Total number of targets = 64

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Irene L. Dodd on 07/19/2012 at 13:59. Parallax ID: ild00415

ASX73 0623



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

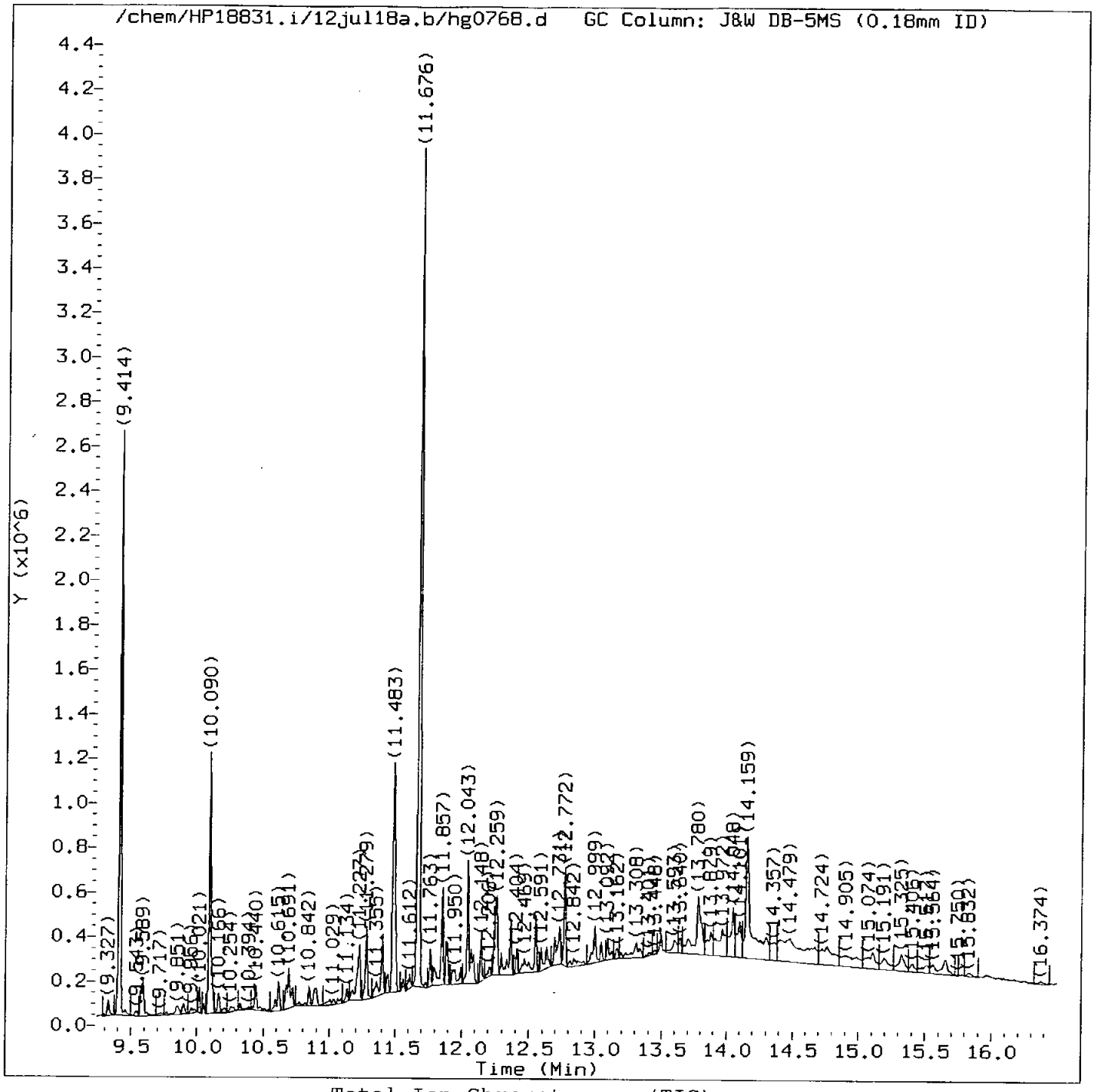
Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

ASX73 0624



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

ASX73 0625

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

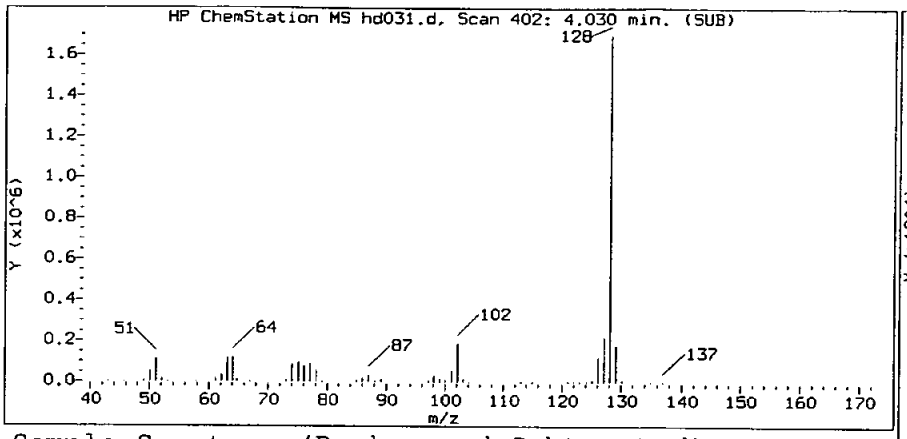
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.431	112	1372963	151.294
15)$Phenol-d6	(1)	5.358	99	1927085	149.937
21)*1,4-Dichlorobenzene-d4	(1)	5.684	152	107698	20.000
38)$Nitrobenzene-d5	(2)	6.226	82	924051	77.299
52)*Naphthalene-d8	(2)	6.920	136	434262	20.000
53) Naphthalene	(2)	6.937	128	24417M	0.987
70) 2-Methylnaphthalene	(2)	7.619	142	21390	1.416
78)$2-Fluorobiphenyl	(3)	7.986	172	1310718	79.955
95) Acenaphthylene	(3)	8.499	152	27361	1.272
98)*Acenaphthene-d10	(3)	8.639	164	245724	20.000
99) Acenaphthene	(3)	8.668	153	3728M	0.253
104) Dibenzofuran	(3)	8.837	168	14513M	0.695
111) Fluorene	(3)	9.175	166	4270	0.256
119)$2,4,6-Tribromophenol	(3)	9.414	330	234839	149.534
135)*Phenanthrene-d10	(4)	10.090	188	411856	20.000
137) Phenanthrene	(4)	10.114	178	74520	3.140
138) Anthracene	(4)	10.166	178	37846	1.614
140) Carbazole	(4)	10.324	167	14801	0.662
147) Fluoranthene	(4)	11.279	202	127126	5.401
167)*Pyrene-d10	(5)	11.483	212	408870	20.000
154) Pyrene	(5)	11.501	202	115448	4.920
156)$Terphenyl-d14	(5)	11.676	244	1194971	87.289
166) Benzo(a)anthracene	(5)	12.696	228	50294	2.920
168) Chrysene	(5)	12.737	228	94937	5.469
172) Benzo(b)fluoranthene	(6)	13.786	252	104892M	7.970
173) Benzo(k)fluoranthene	(6)	13.797	252	49826M	3.825
174) Benzo(a)pyrene	(6)	14.101	252	41065	3.479
175)*Perylene-d12	(6)	14.159	264	208002	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	15.325	276	38668	3.390
178) Dibenz(a,h)anthracene	(6)	15.348	278	8275M	0.883
179) Benzo(g,h,i)perylene	(6)	15.657	276	33625	3.491

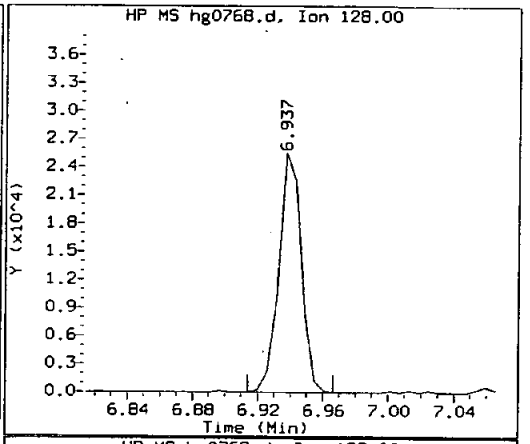
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

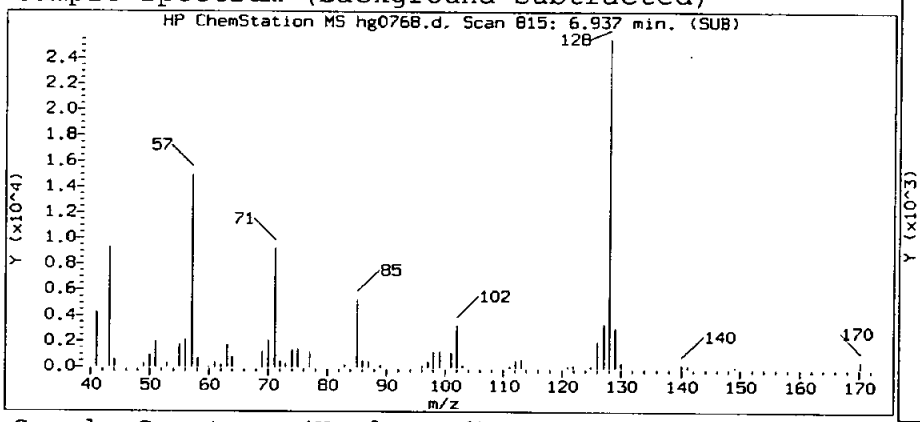
ASX73 0626

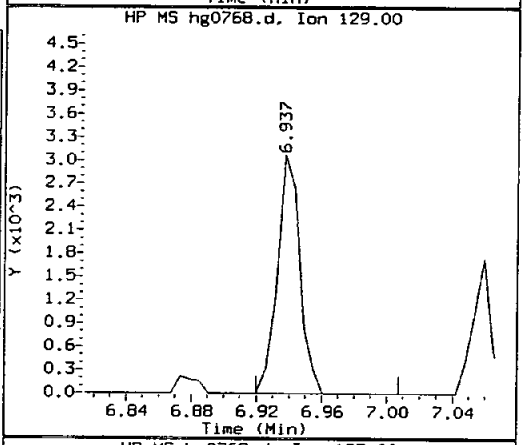
Reference Standard Spectrum for Naphthalene



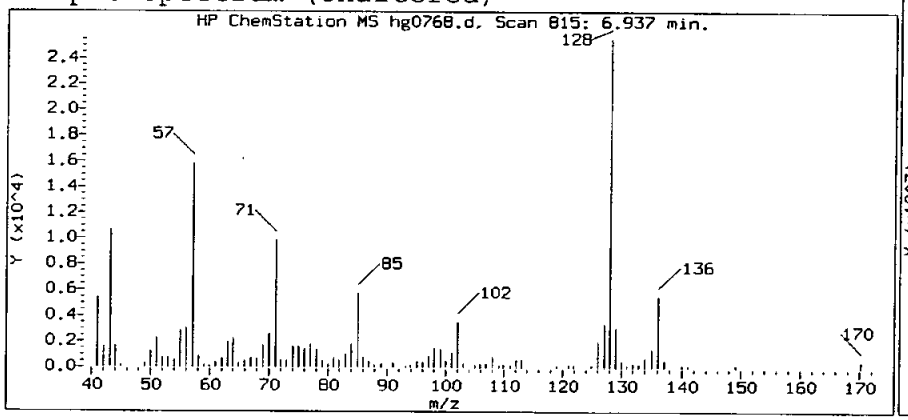


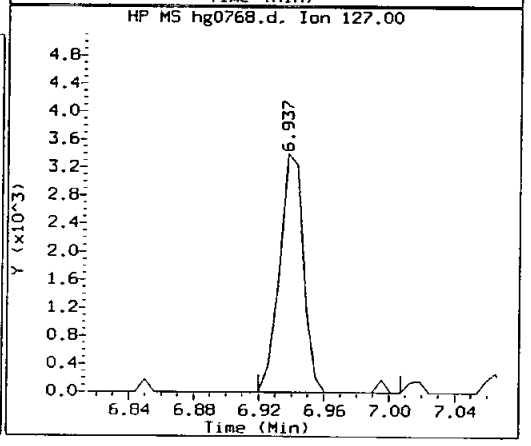
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

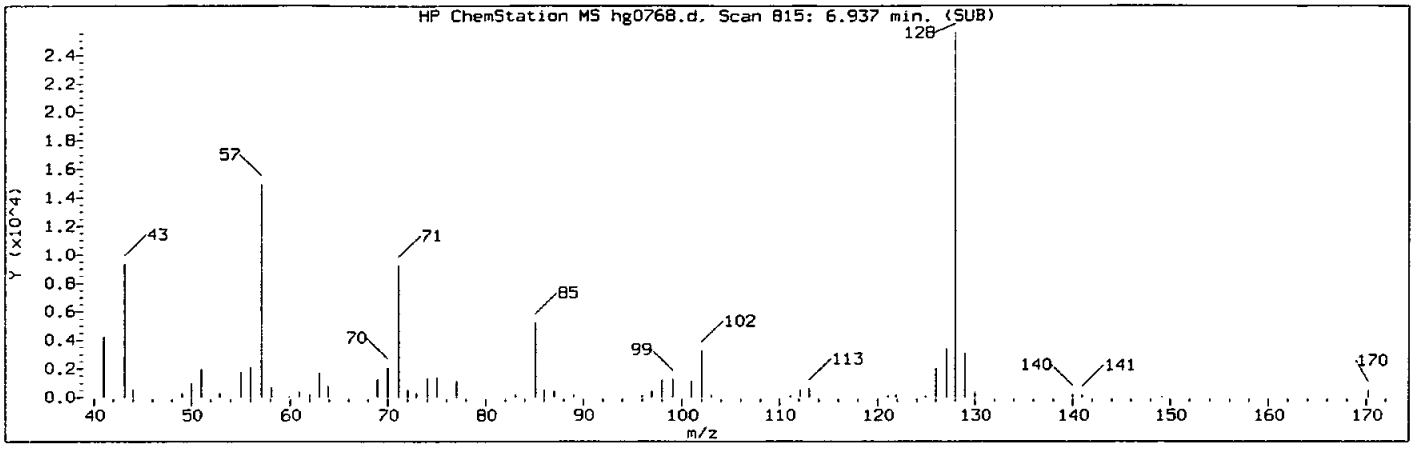
Sample Name: XXXXX

Lab Sample ID: 6721503

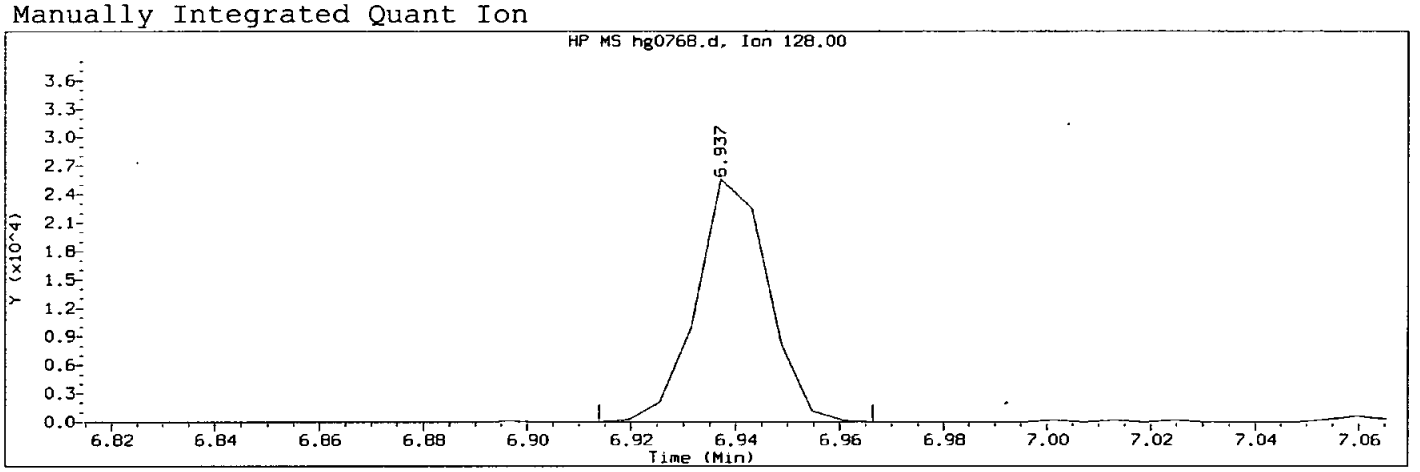
Compound Number	: 53
Compound Name	: Naphthalene
Scan Number	: 815
Retention Time (minutes)	: 6.937
Relative Retention Time	: 0.00084
Quant Ion	: 128.00
Area (flag)	: 24417M
On-column Amount (ng/ul)	: 0.9869

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721503

Compound Number	: 53		
Compound Name	: Naphthalene		
Scan Number	: 815		
Retention Time (minutes)	: 6.937		
Quant Ion	: 128.00		
Area (flag)	: 24417M		
On-column Amount (ng/ul)	: 0.9869		
Integration start scan	: 810	Integration stop scan:	819
Y at integration start	: 0	Y at integration end:	0

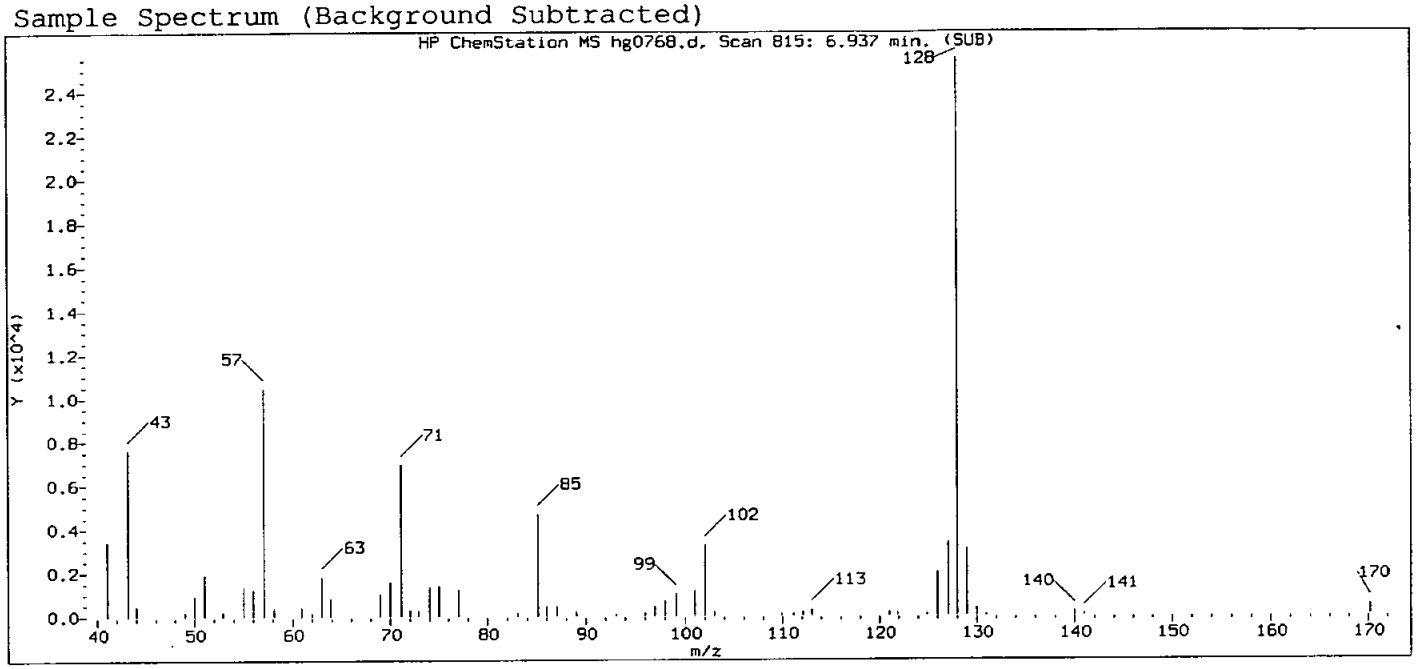
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20. Target 3.5 esignature user ID: jmg00346

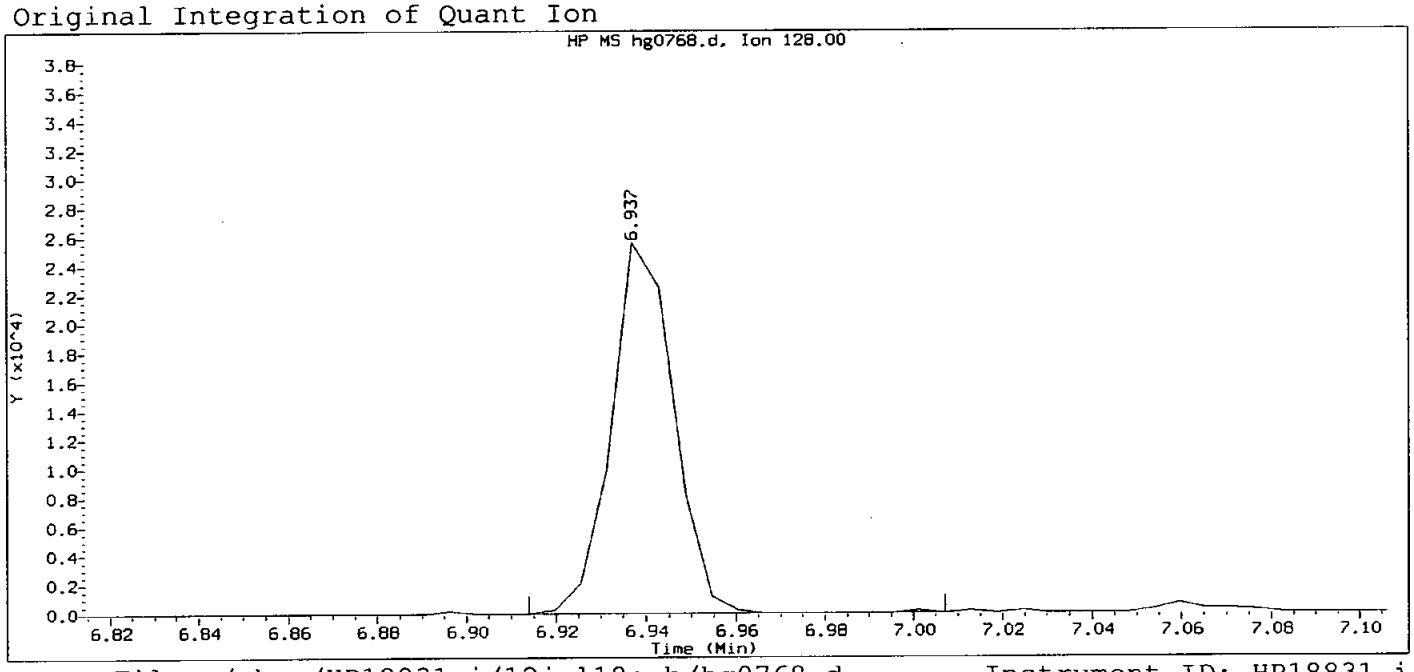
Secondary review performed and digitally signed by Irene L. Dodd on 07/19/2012 at 13:59.
Parallax ID: ild00415

ASX73 0628

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

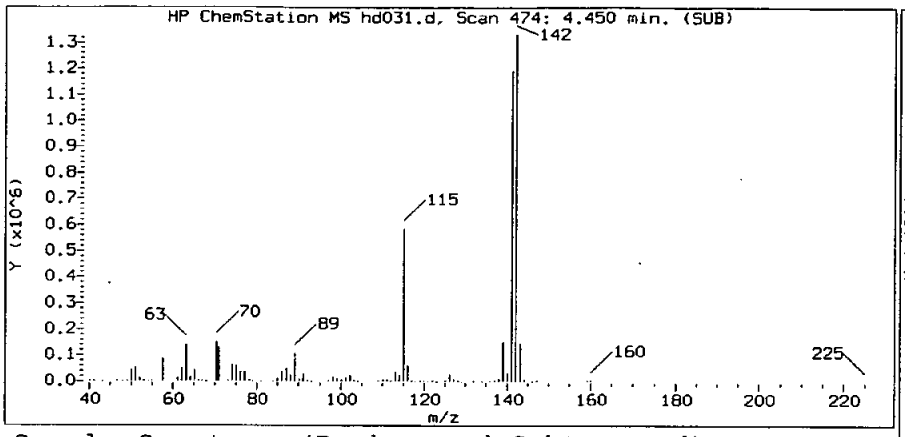
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:09 Automation

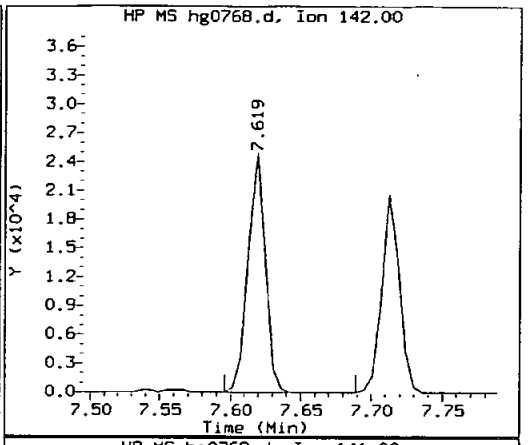
Sample Name: XXXXX Lab Sample ID: 6721503

Compound Number	: 53		
Compound Name	: Naphthalene		
Scan Number	: 815		
Retention Time (minutes)	: 6.937		
Quant Ion	: 128.00		
Area	: 24471		
On-column Amount (ng/ul)	: 0.9891		
Integration start scan	: 810	Integration stop scan:	826
Y at integration start	: 0	Y at integration end:	0

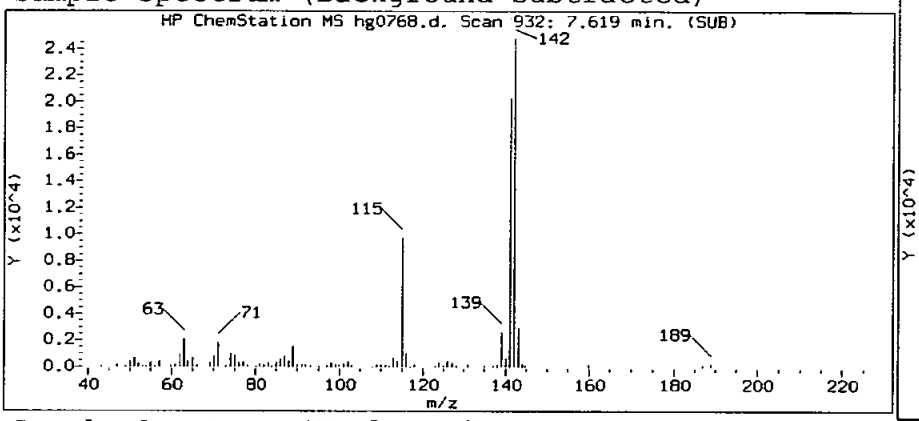
Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

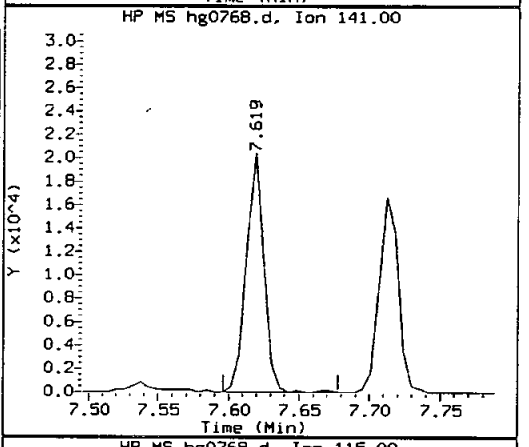
Reference Standard Spectrum for 2-Methylnaphthalene



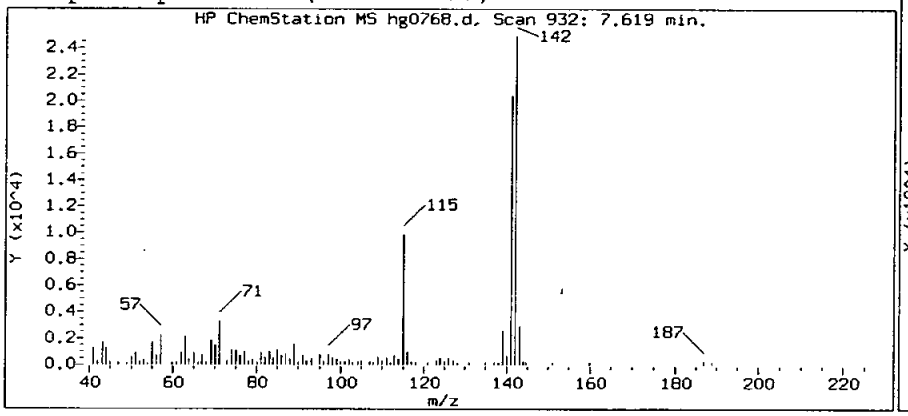


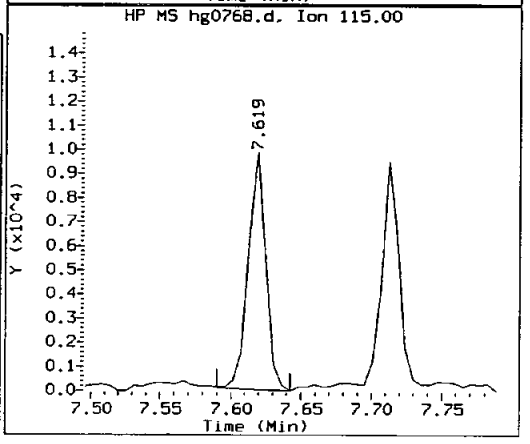
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

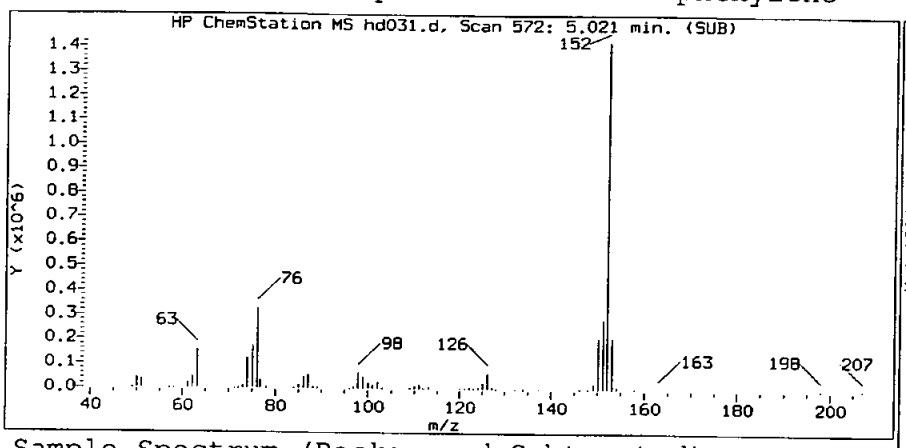
Sample Name: XXXXX

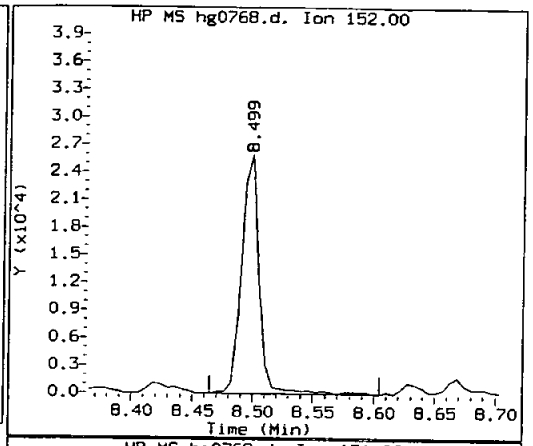
Lab Sample ID: 6721503

Compound Number	: 70
Compound Name	: 2-Methylnaphthalene
Scan Number	: 932
Retention Time (minutes)	: 7.619
Relative Retention Time	:-0.00000
Quant Ion	: 142.00
Area (flag)	: 21390
On-column Amount (ng/ul)	: 1.4157

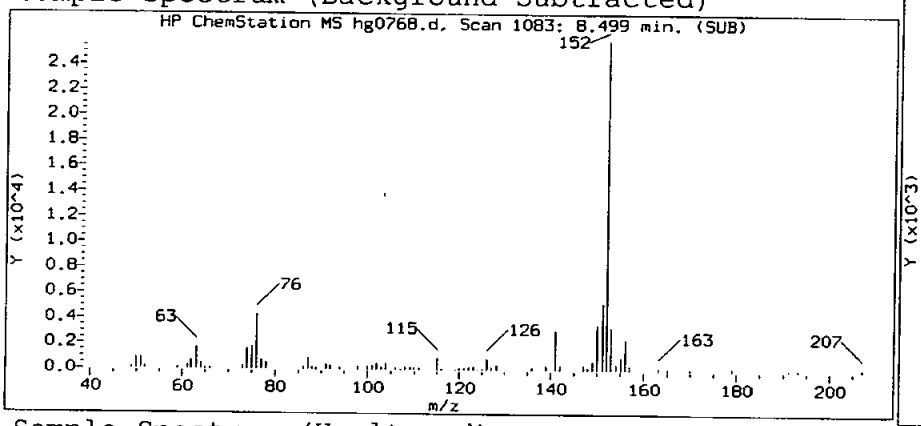
Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

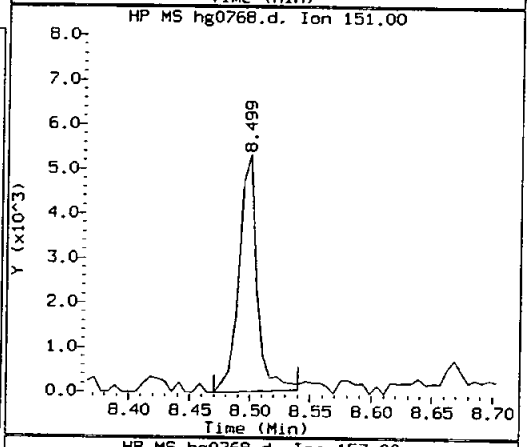
Reference Standard Spectrum for Acenaphthylene



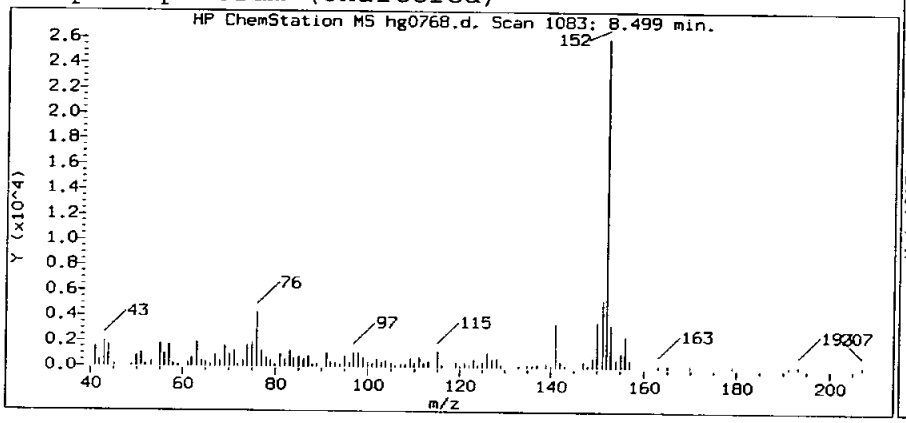


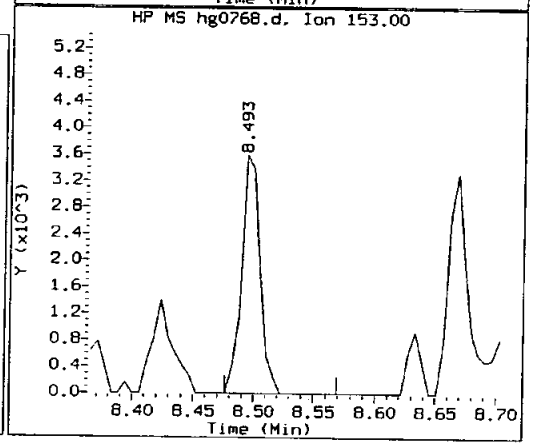
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

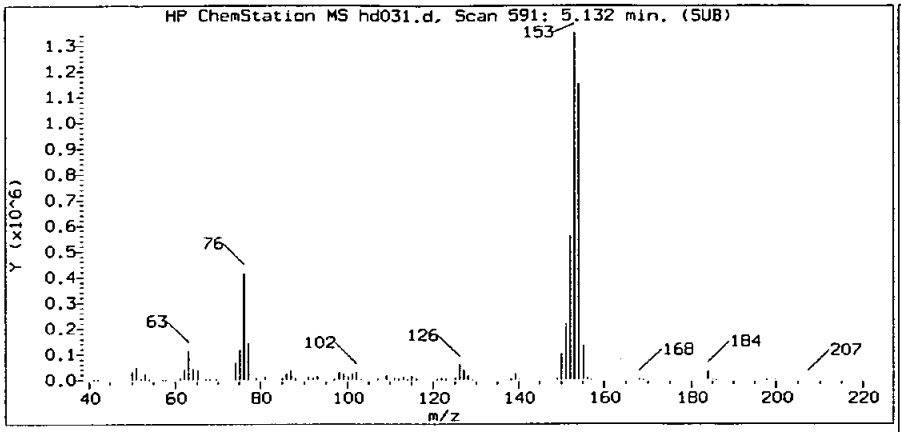
Sample Name: XXXXX

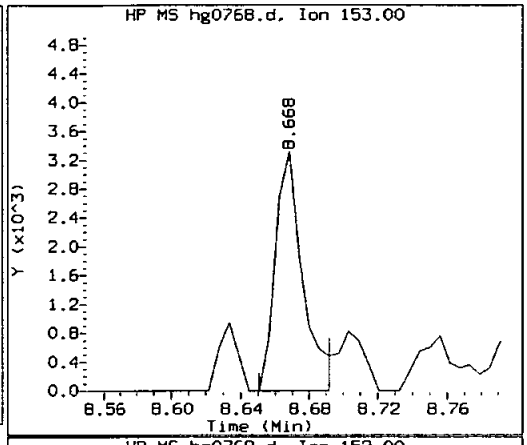
Lab Sample ID: 6721503

Compound Number	: 95
Compound Name	: Acenaphthylene
Scan Number	: 1083
Retention Time (minutes)	: 8.499
Relative Retention Time	:-0.00000
Quant Ion	: 152.00
Area (flag)	: 27361
On-column Amount (ng/ul)	: 1.2723

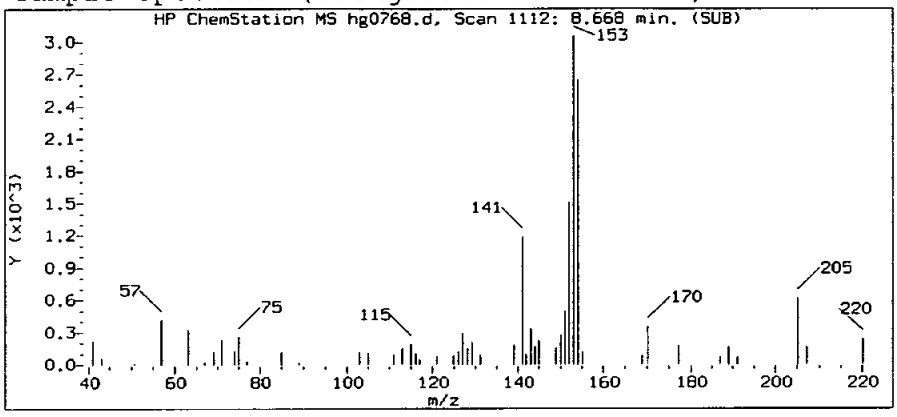
Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

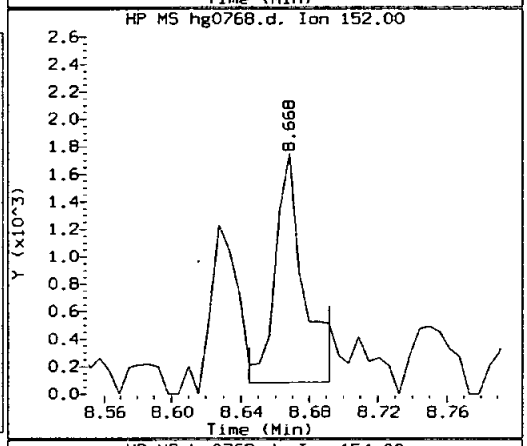
Reference Standard Spectrum for Acenaphthene



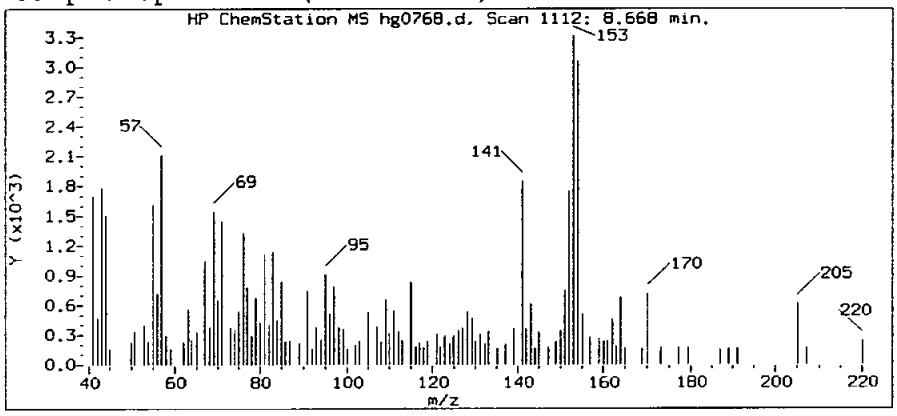


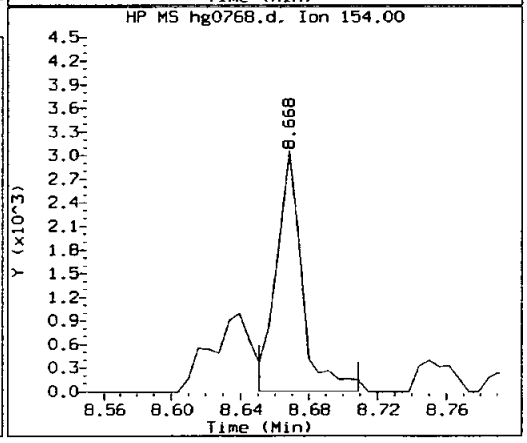
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

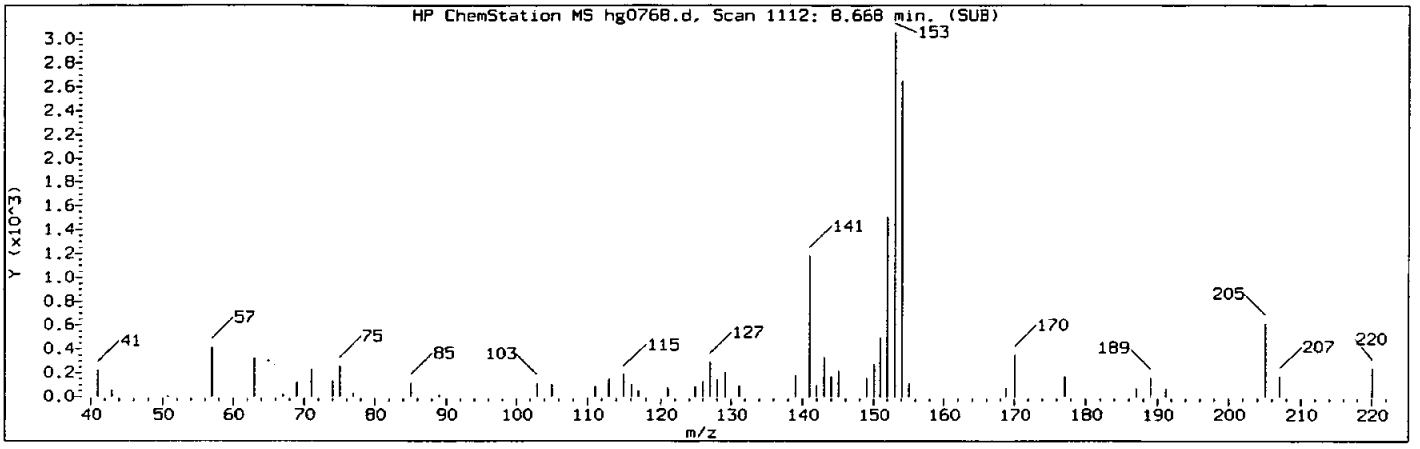
Sample Name: XXXXX

Lab Sample ID: 6721503

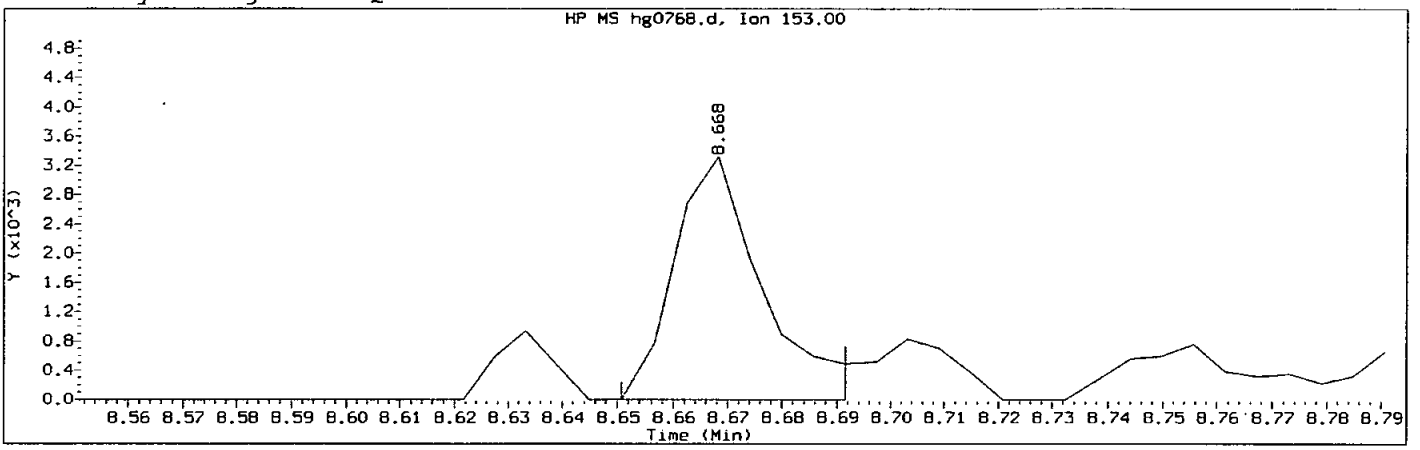
Compound Number	: 99
Compound Name	: Acenaphthene
Scan Number	: 1112
Retention Time (minutes)	: 8.668
Relative Retention Time	:-0.00000
Quant Ion	: 153.00
Area (flag)	: 3728M
On-column Amount (ng/ul)	: 0.2532

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721503

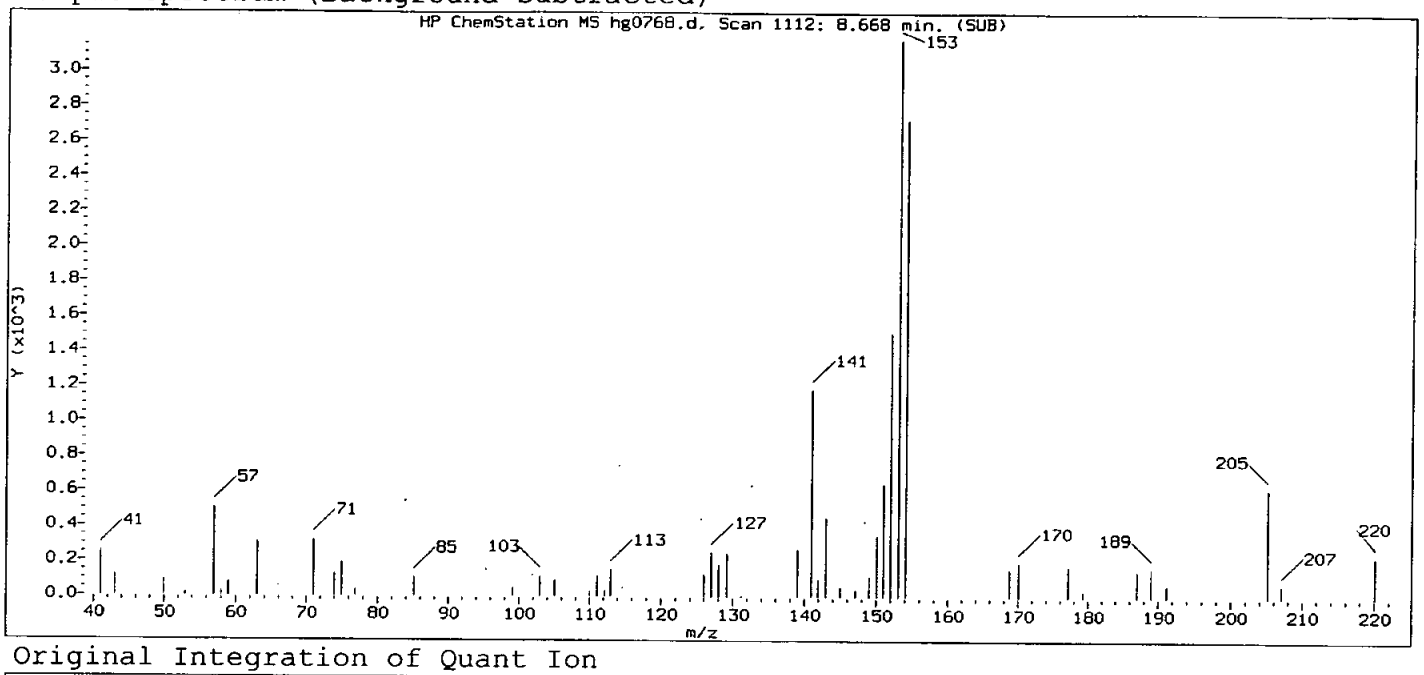
Compound Number	: 99		
Compound Name	: Acenaphthene		
Scan Number	: 1112		
Retention Time (minutes)	: 8.668		
Quant Ion	: 153.00		
Area (flag)	: 3728M		
On-column Amount (ng/ul)	: 0.2532		
Integration start scan	: 1108	Integration stop scan:	1115
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

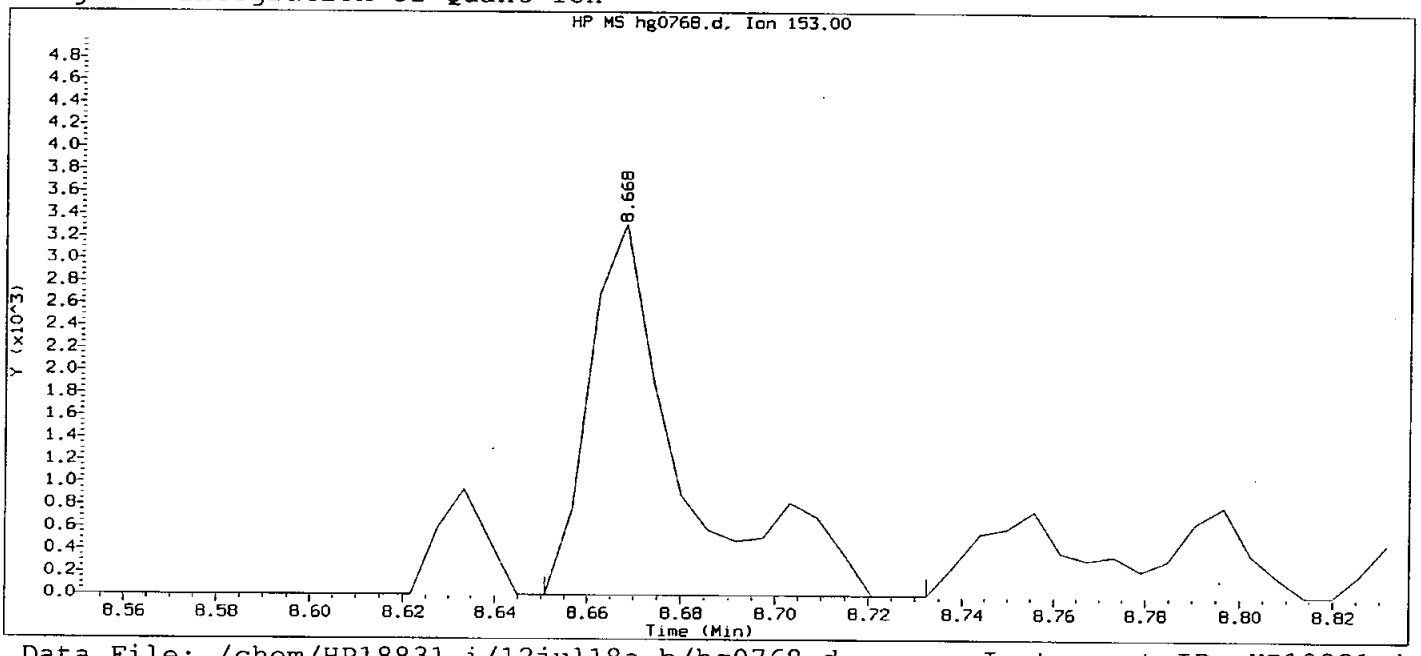
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Irene L. Dodd on 07/19/2012 at 13:59.
Parallax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

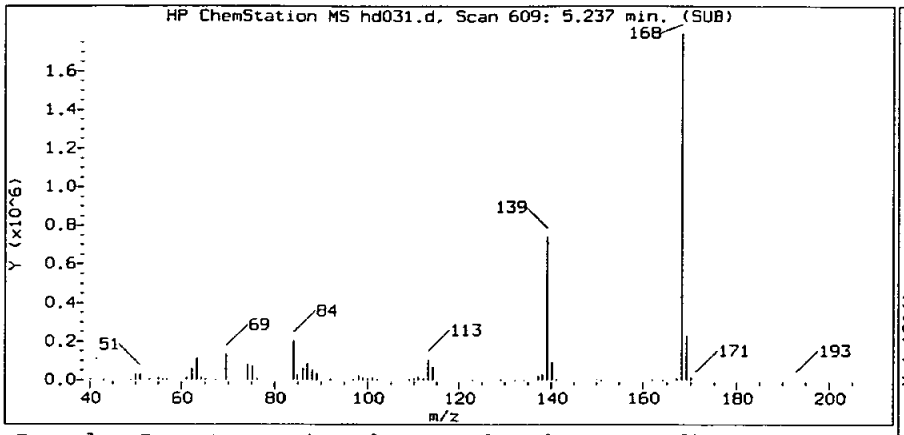
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:09 Automation

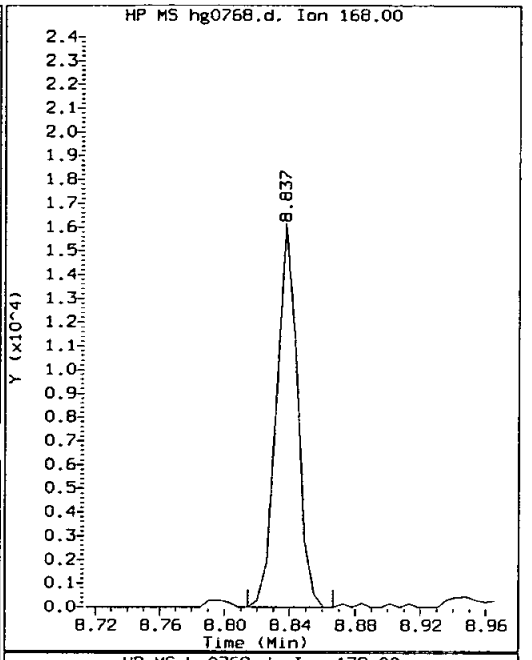
Sample Name: XXXXX Lab Sample ID: 6721503

Compound Number	:	99
Compound Name	:	Acenaphthene
Scan Number	:	1112
Retention Time (minutes)	:	8.668
Quant Ion	:	153.00
Area	:	4569
On-column Amount (ng/ul)	:	0.3103
Integration start scan	:	1108 Integration stop scan: 1122
Y at integration start	:	0 Y at integration end: 0

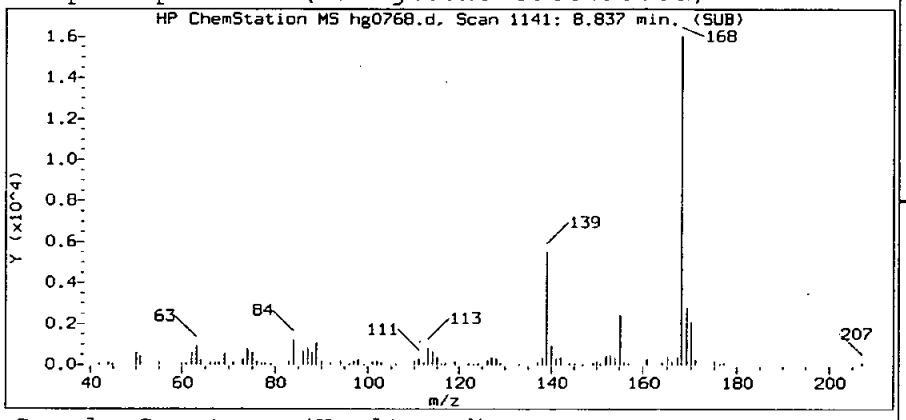
Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

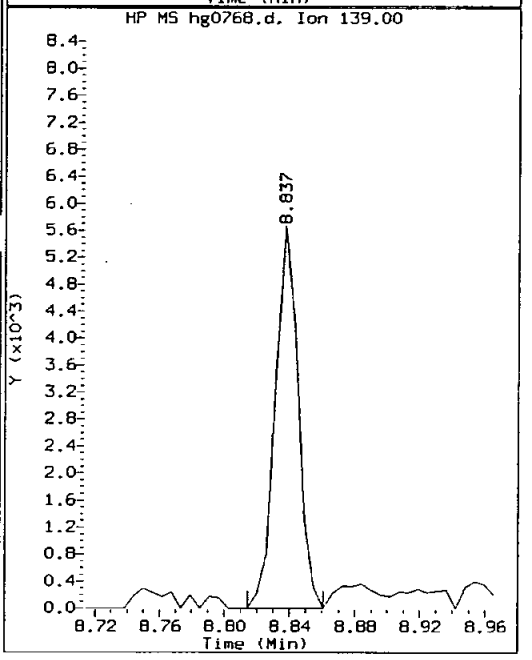
Reference Standard Spectrum for Dibenzofuran



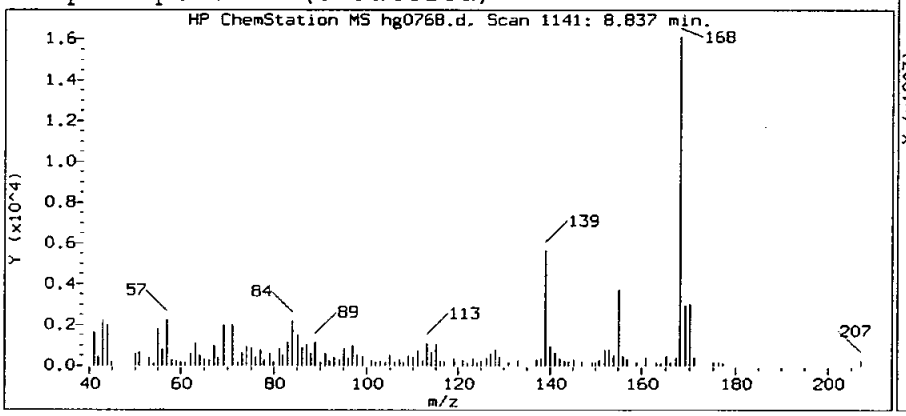


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

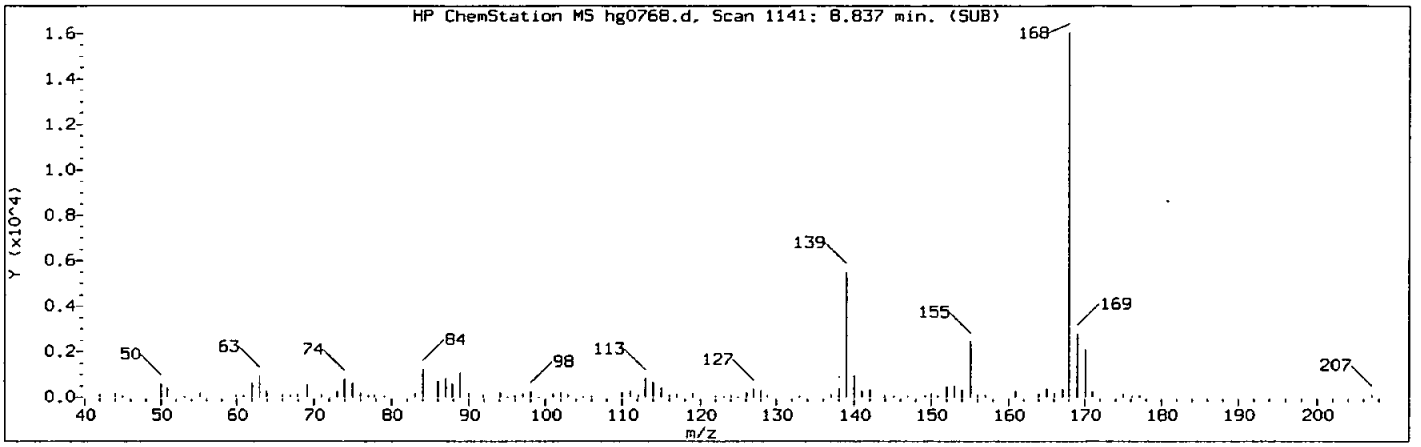
Sample Name: XXXXX

Lab Sample ID: 6721503

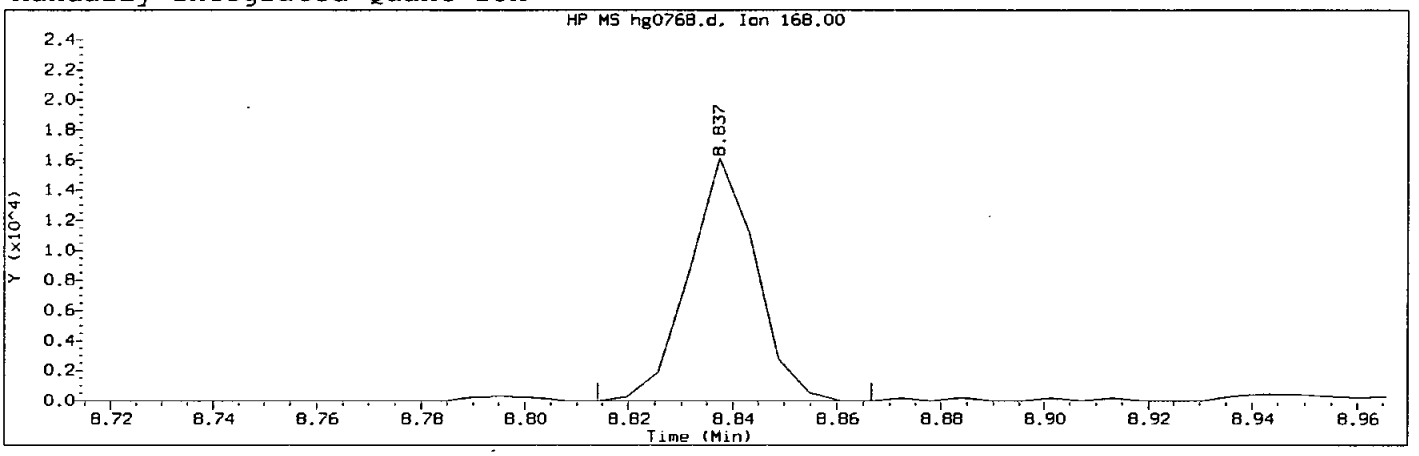
Compound Number	: 104
Compound Name	: Dibenzofuran
Scan Number	: 1141
Retention Time (minutes)	: 8.837
Relative Retention Time	: 0.00067
Quant Ion	: 168.00
Area (flag)	: 14513M
On-column Amount (ng/ul)	: 0.6948

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721503

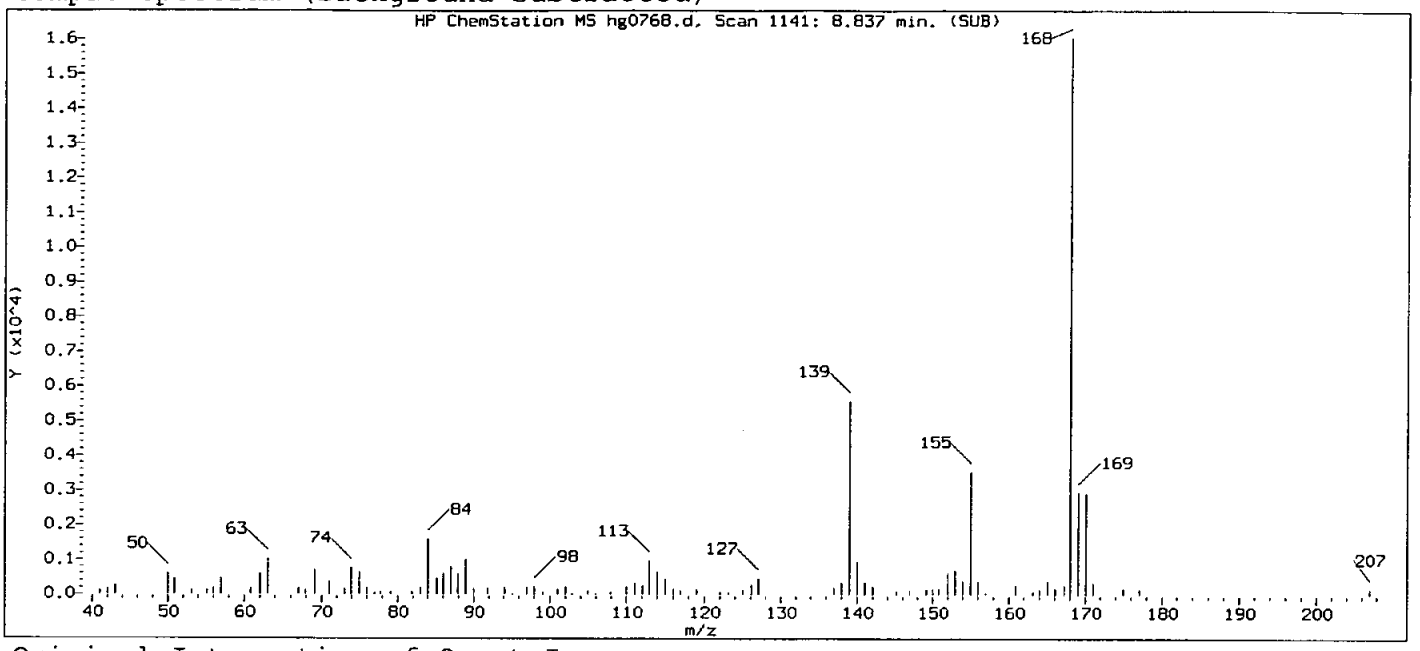
Compound Number	:	104
Compound Name	:	Dibenzofuran
Scan Number	:	1141
Retention Time (minutes)	:	8.837
Quant Ion	:	168.00
Area (flag)	:	14513M
On-column Amount (ng/ul)	:	0.6948
Integration start scan	:	1136 Integration stop scan: 1145
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration: improper integration

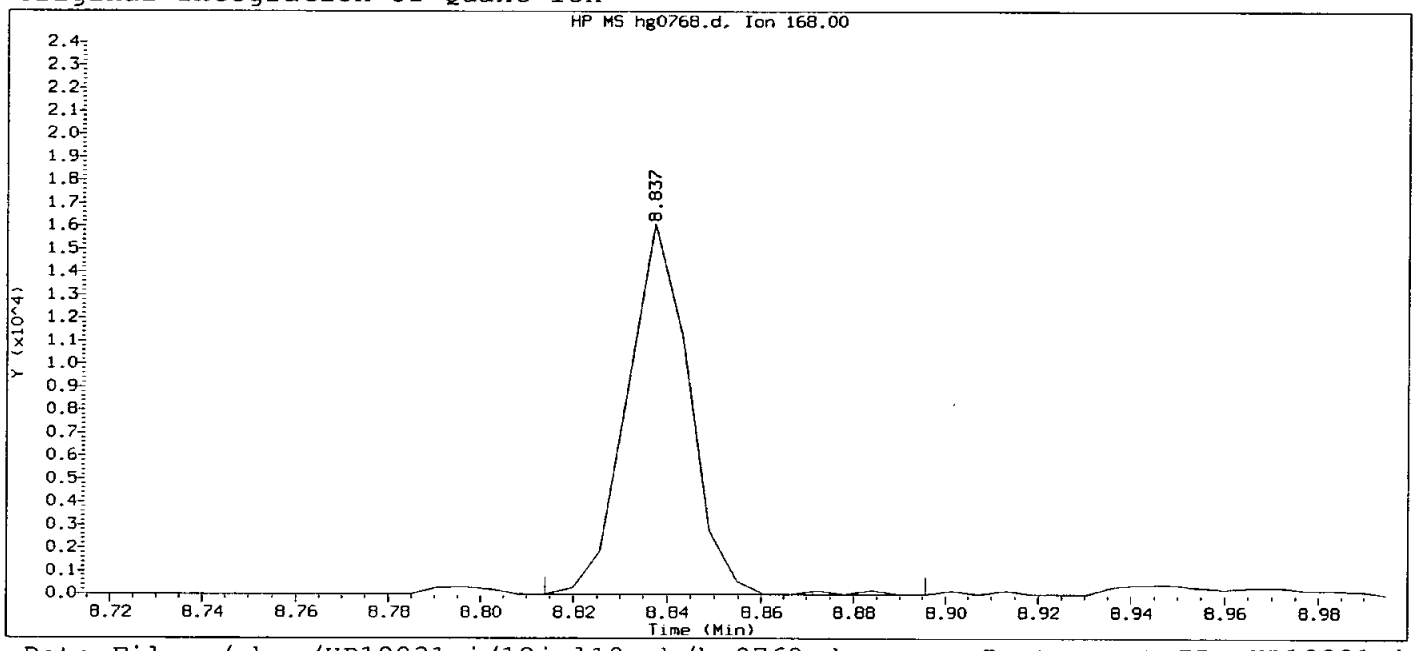
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Irene L. Dodd on 07/19/2012 at 13:59.
Parallax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

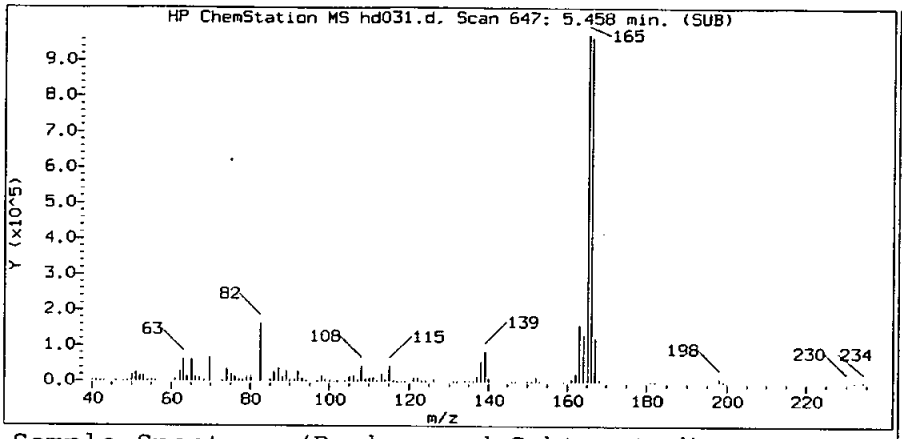
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:09 Automation

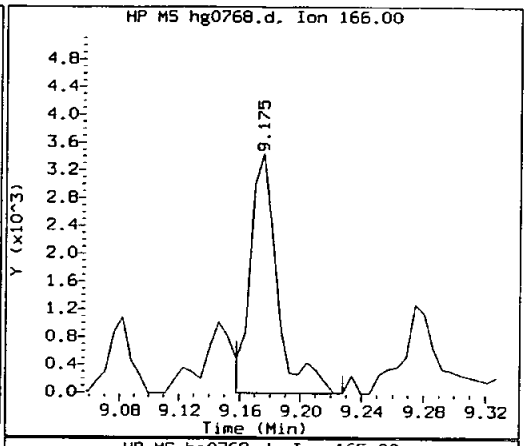
Sample Name: XXXXX Lab Sample ID: 6721503

Compound Number	: 104		
Compound Name	: Dibenzofuran		
Scan Number	: 1141		
Retention Time (minutes)	: 8.837		
Quant Ion	: 168.00		
Area	: 14629		
On-column Amount (ng/ul)	: 0.7004		
Integration start scan	: 1136	Integration stop scan:	1150
Y at integration start	: 0	Y at integration end:	0

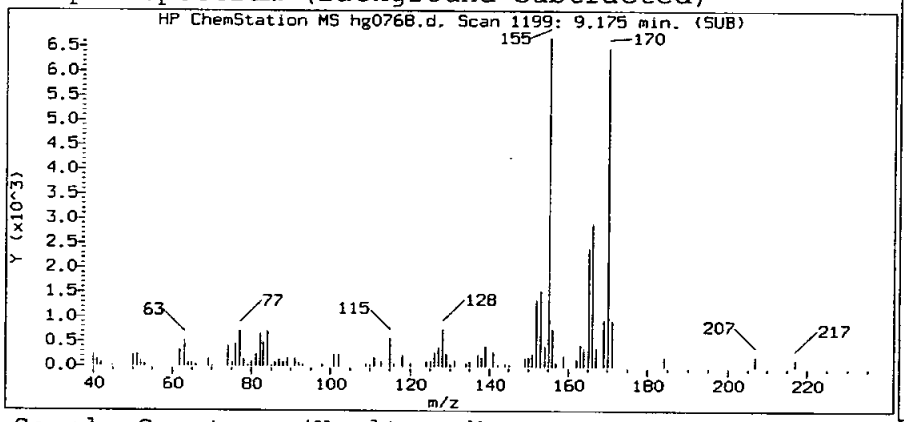
Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

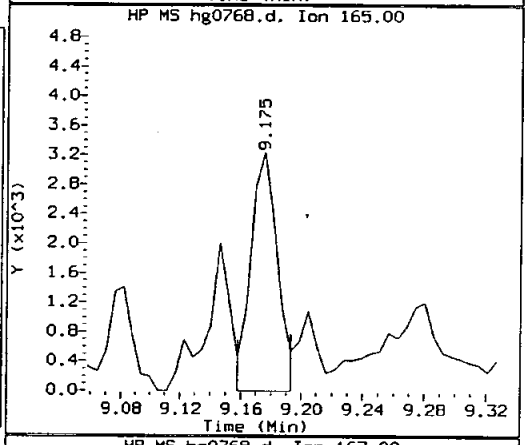
Reference Standard Spectrum for Fluorene



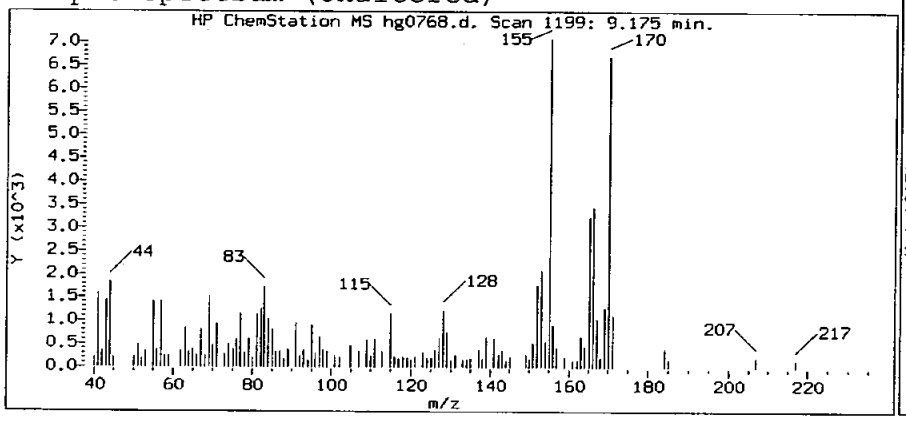


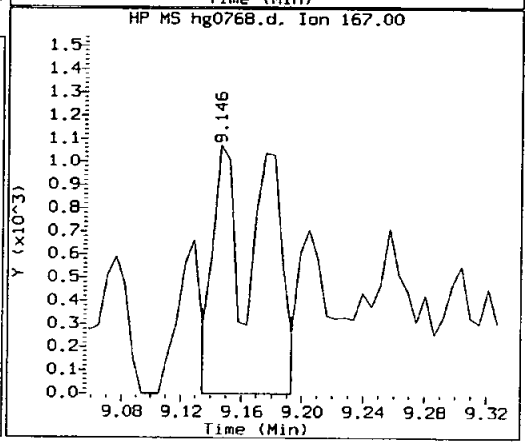
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Compound Number	: 111
Compound Name	: Fluorene
Scan Number	: 1199
Retention Time (minutes)	: 9.175
Relative Retention Time	:-0.00000
Quant Ion	: 166.00
Area (flag)	: 4270
On-column Amount (ng/ul)	: 0.2558

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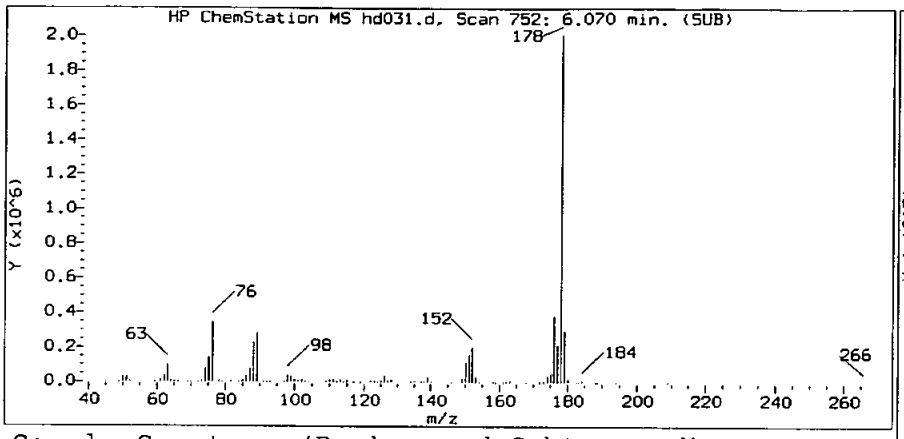
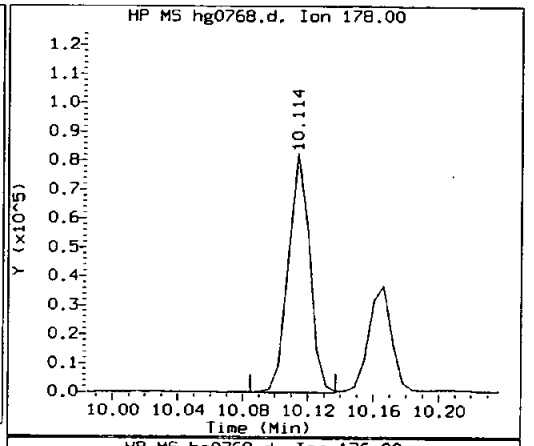
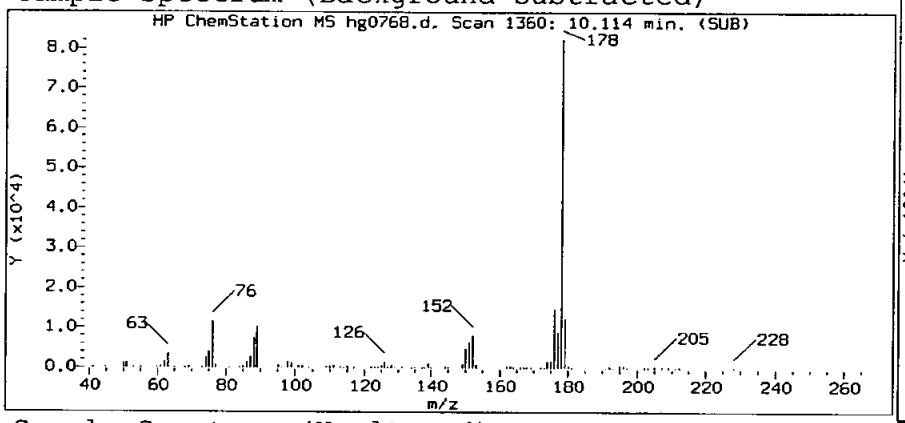
Target 3.5 esignature user ID: jmg00346

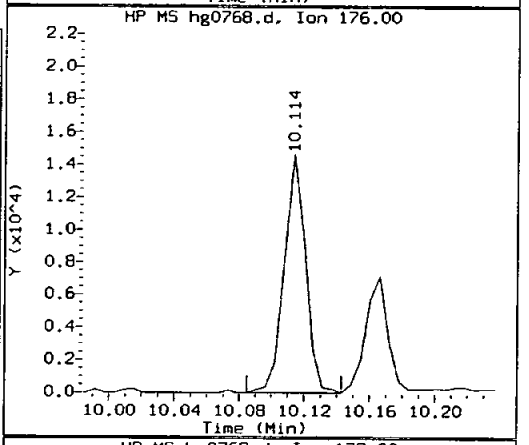
Reference Standard Spectrum for Phenanthrene



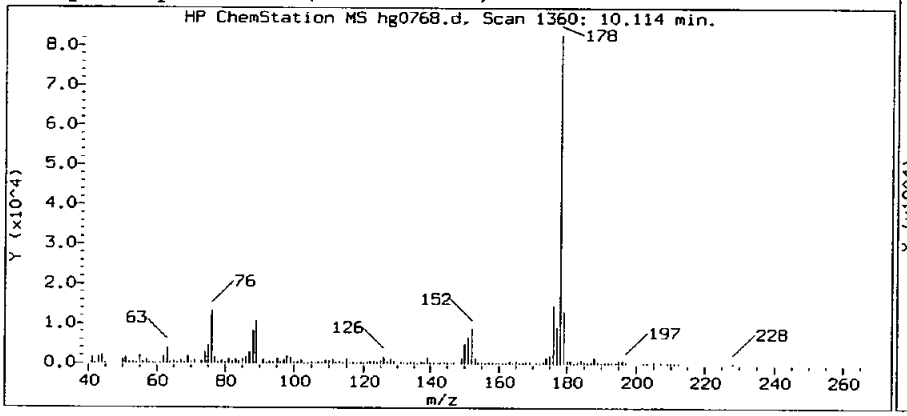


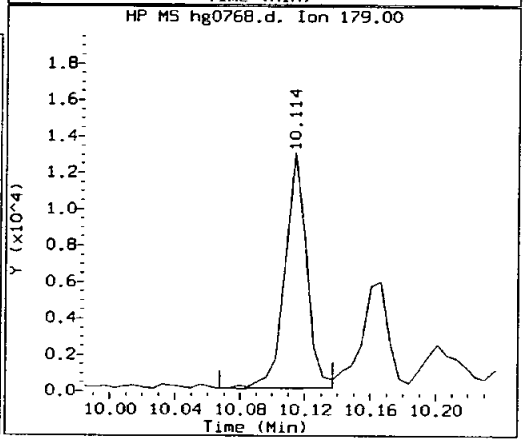
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Compound Number	: 137
Compound Name	: Phenanthrene
Scan Number	: 1360
Retention Time (minutes)	: 10.114
Relative Retention Time	:-0.00000
Quant Ion	: 178.00
Area (flag)	: 74520
On-column Amount (ng/ul)	: 3.1404

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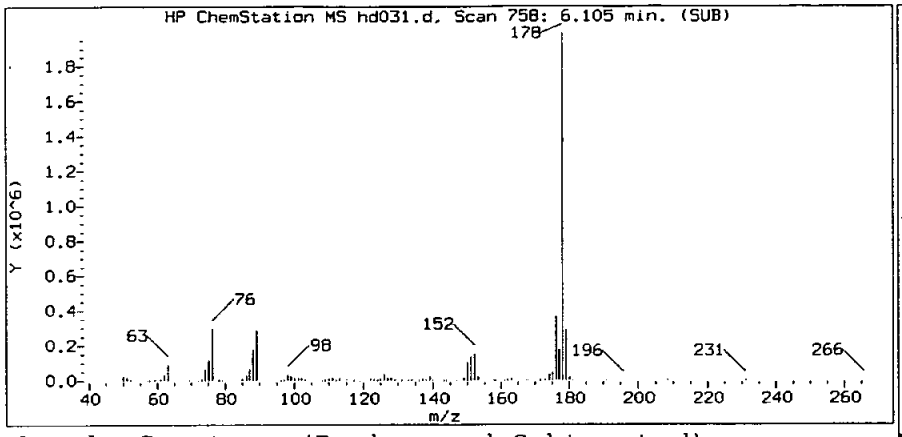
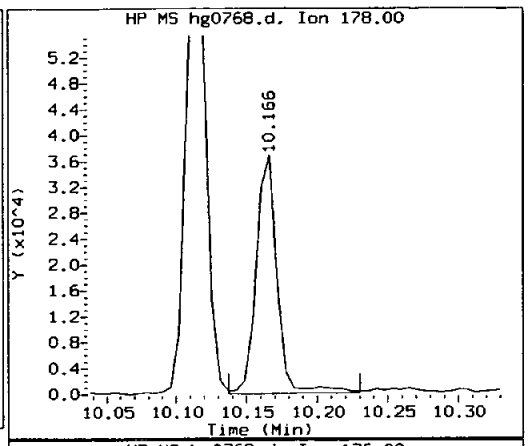
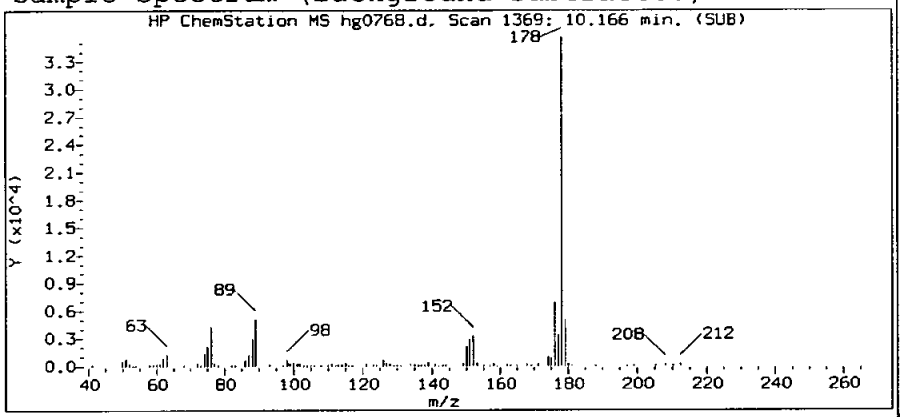
Target 3.5 esignature user ID: jmg00346

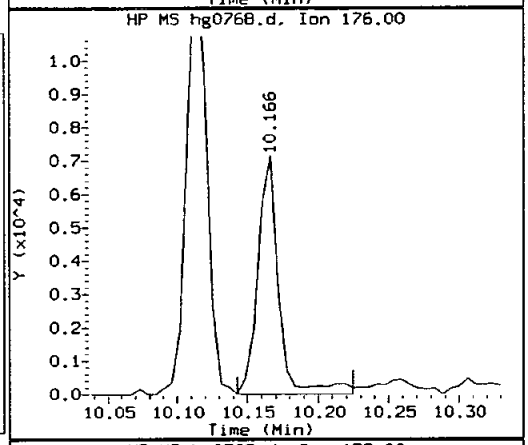
Reference Standard Spectrum for Anthracene



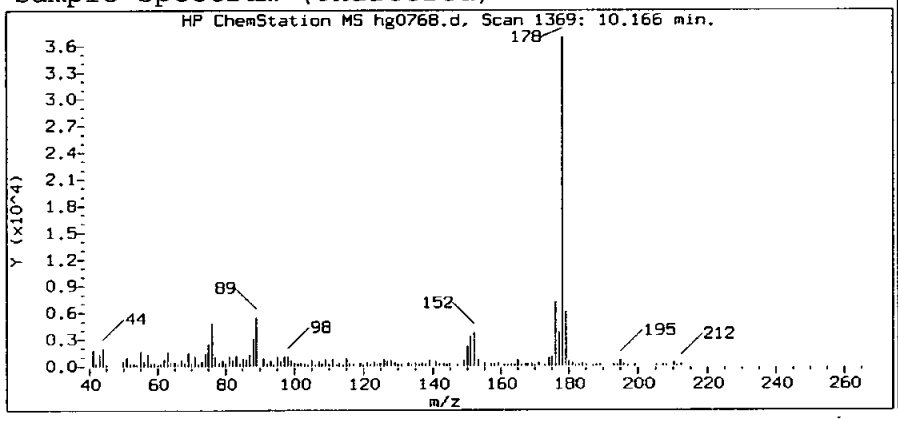


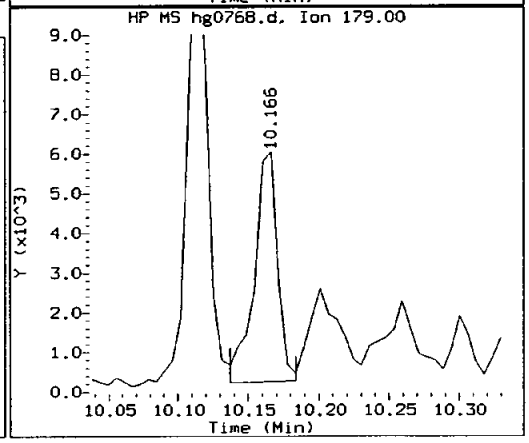
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Compound Number	: 138
Compound Name	: Anthracene
Scan Number	: 1369
Retention Time (minutes)	: 10.166
Relative Retention Time	:-0.00058
Quant Ion	: 178.00
Area (flag)	: 37846
On-column Amount (ng/ul)	: 1.6140

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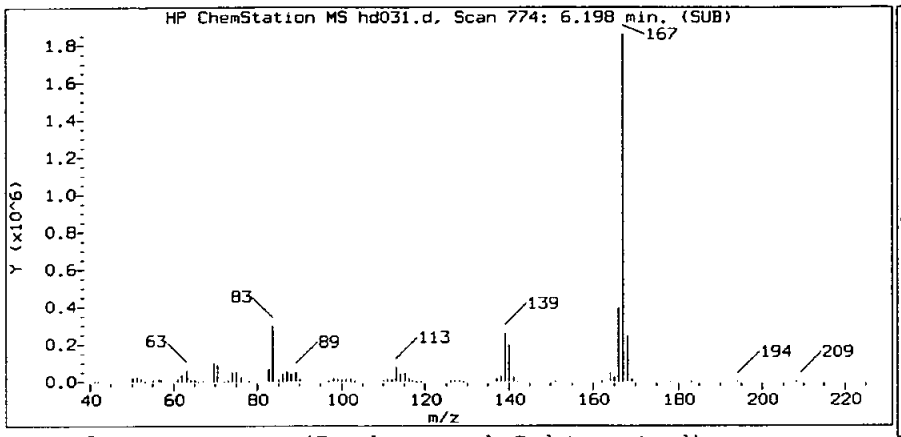
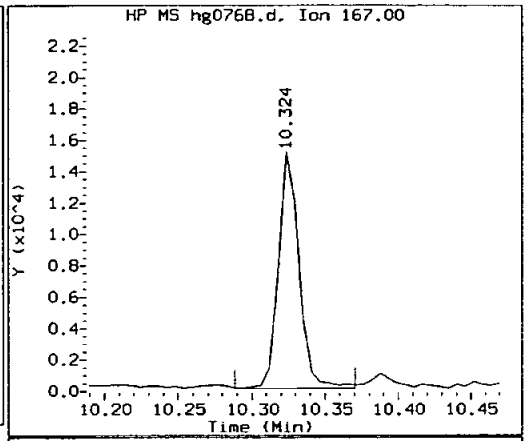
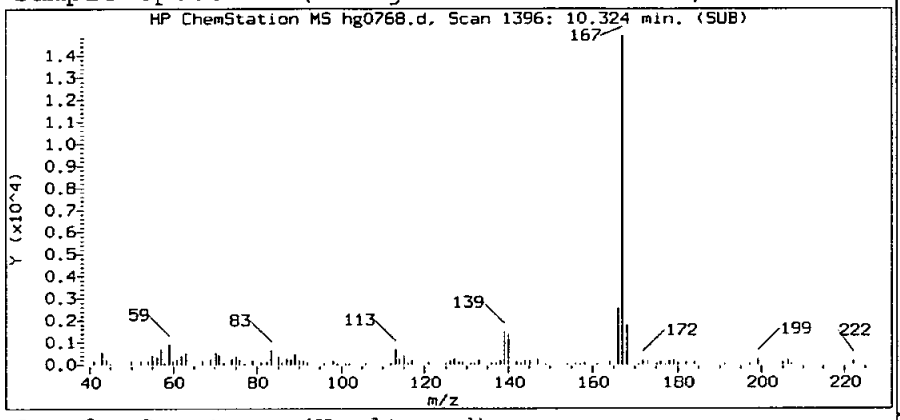
Target 3.5 esignature user ID: jmg00346

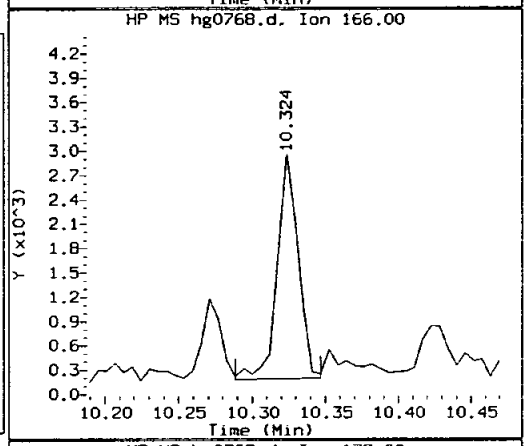
Reference Standard Spectrum for Carbazole



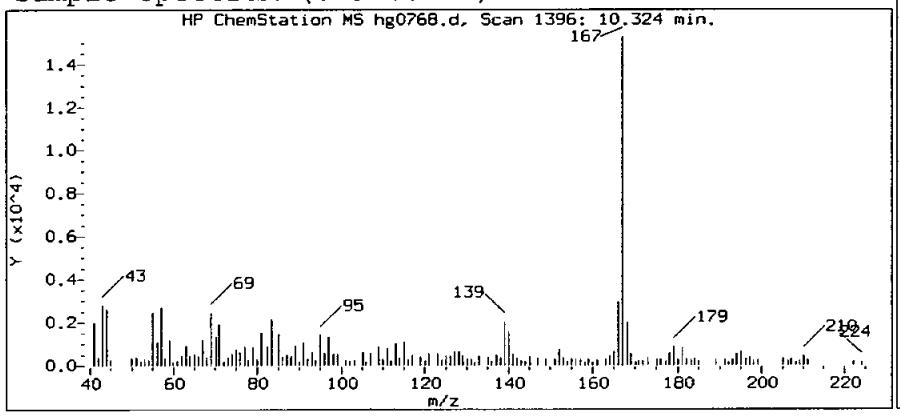


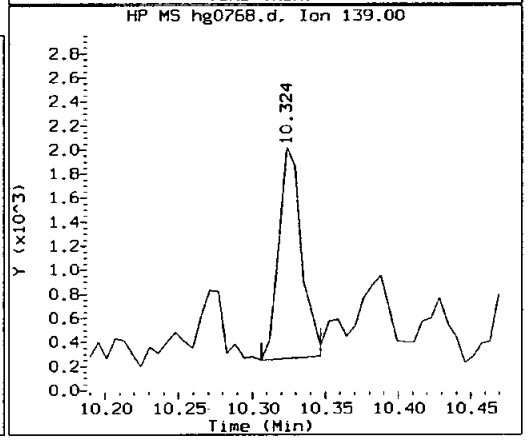
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Compound Number	: 140
Compound Name	: Carbazole
Scan Number	: 1396
Retention Time (minutes)	: 10.324
Relative Retention Time	:-0.00001
Quant Ion	: 167.00
Area (flag)	: 14801
On-column Amount (ng/ul)	: 0.6620

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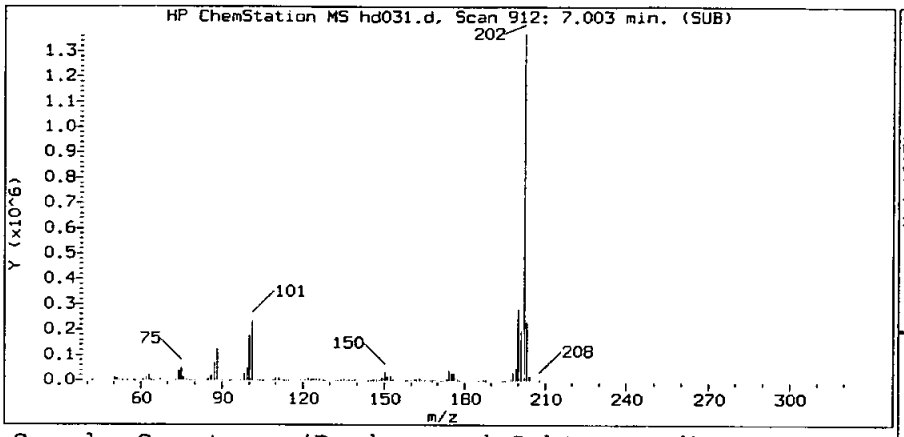
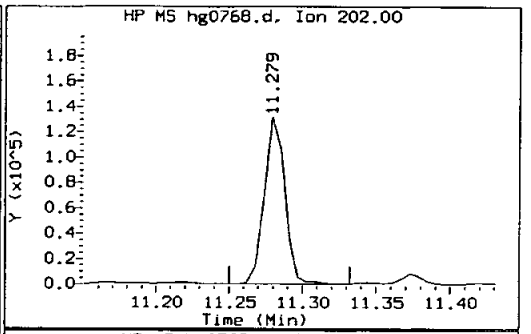
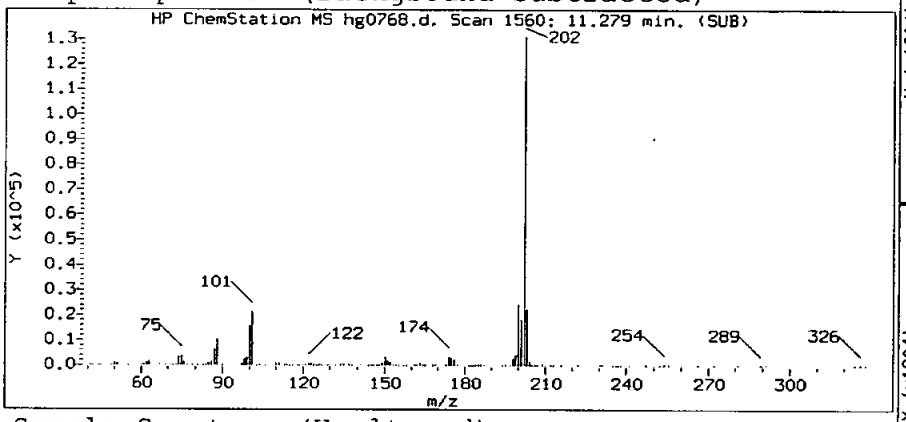
Target 3.5 esignature user ID: jmg00346

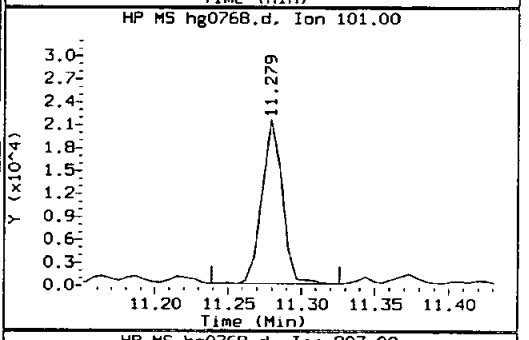
Reference Standard Spectrum for Fluoranthene

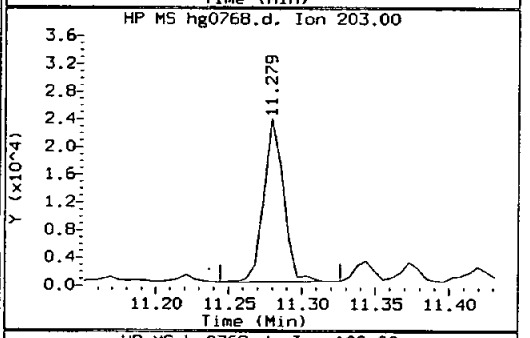




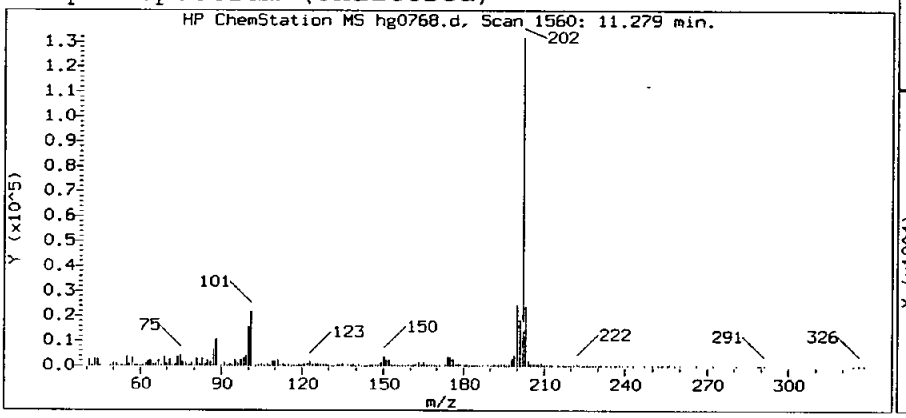
Sample Spectrum (Background Subtracted)

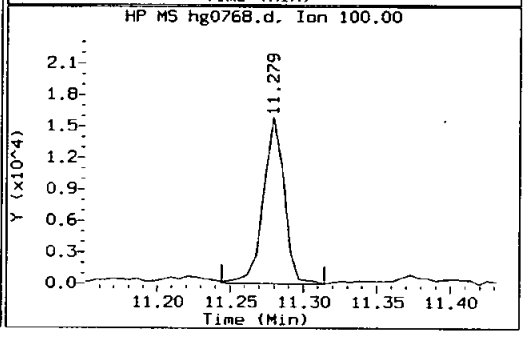






Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Compound Number	: 147
Compound Name	: Fluoranthene
Scan Number	: 1560
Retention Time (minutes)	: 11.279
Relative Retention Time	:-0.00065
Quant Ion	: 202.00
Area (flag)	: 127126
On-column Amount (ng/ul)	: 5.4012

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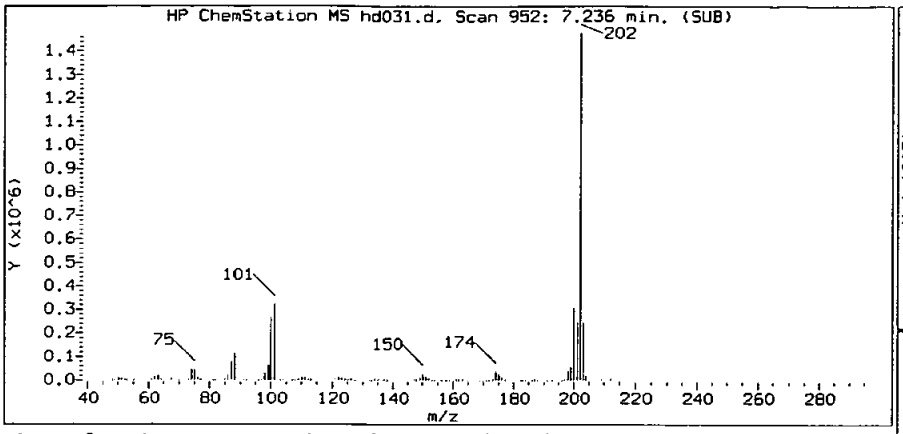
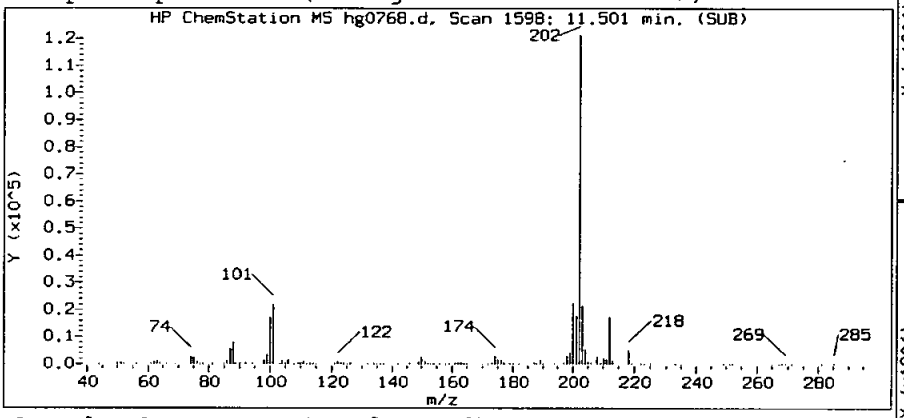
Target 3.5 esignature user ID: jmg00346

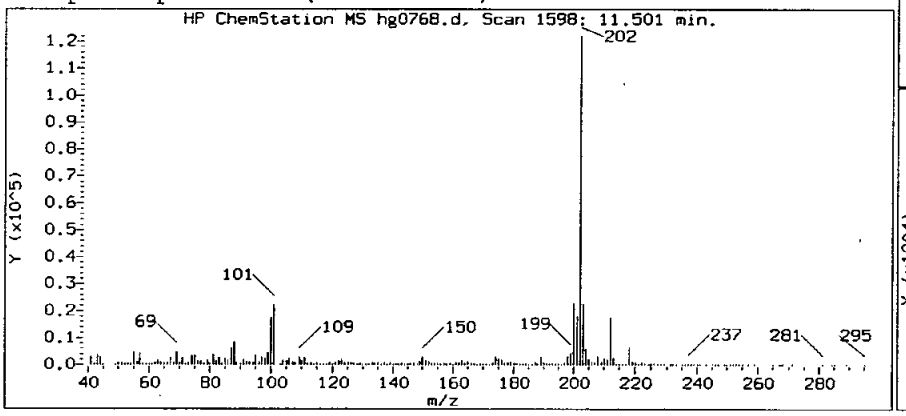
Reference Standard Spectrum for Pyrene

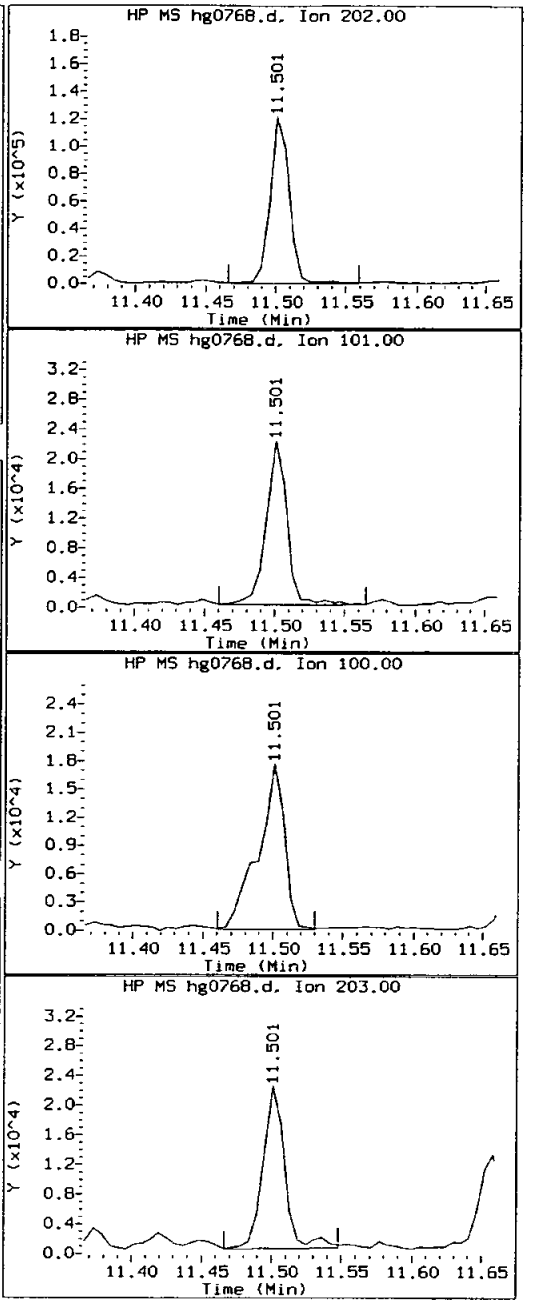


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Compound Number	:	154
Compound Name	:	Pyrene
Scan Number	:	1598
Retention Time (minutes)	:	11.501
Relative Retention Time	:	0.00051
Quant Ion	:	202.00
Area (flag)	:	115448
On-column Amount (ng/ul)	:	4.9198

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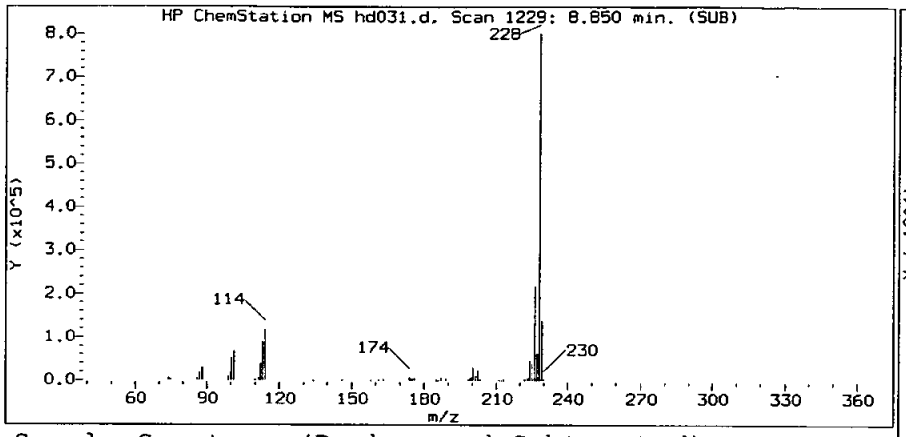
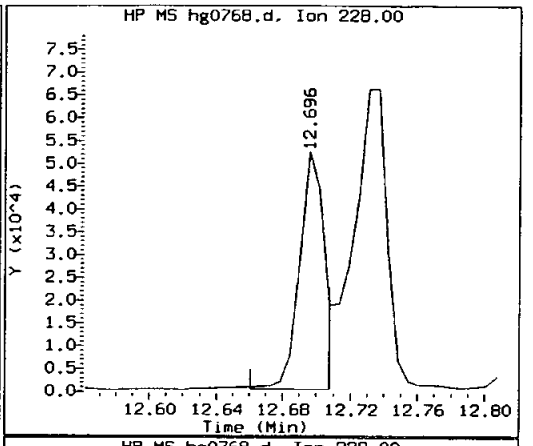
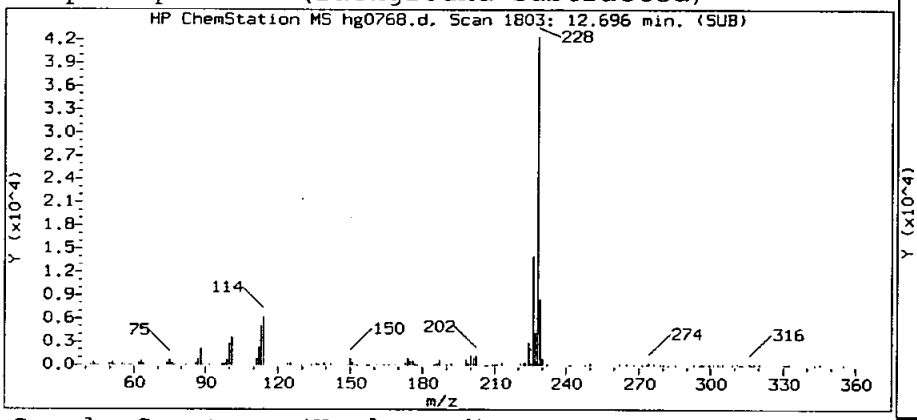
Target 3.5 esignature user ID: jmg00346

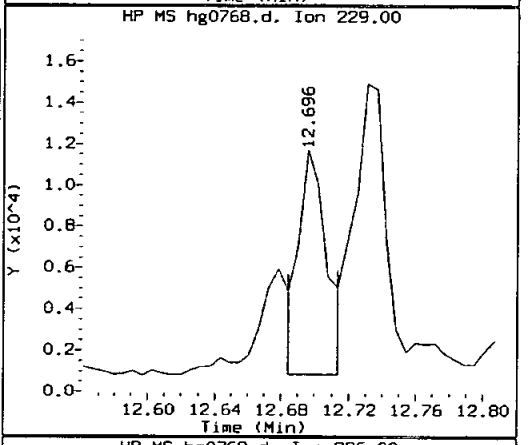
Reference Standard Spectrum for Benzo(a)anthracene



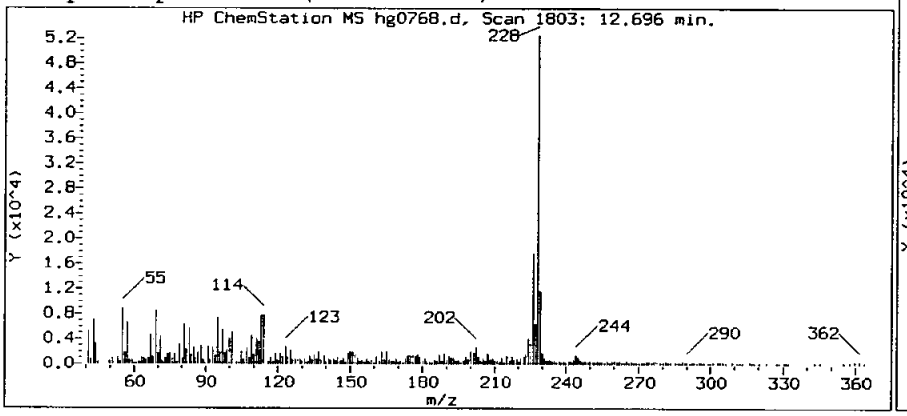


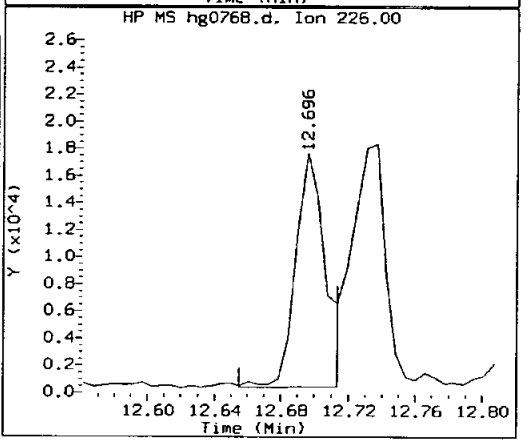
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

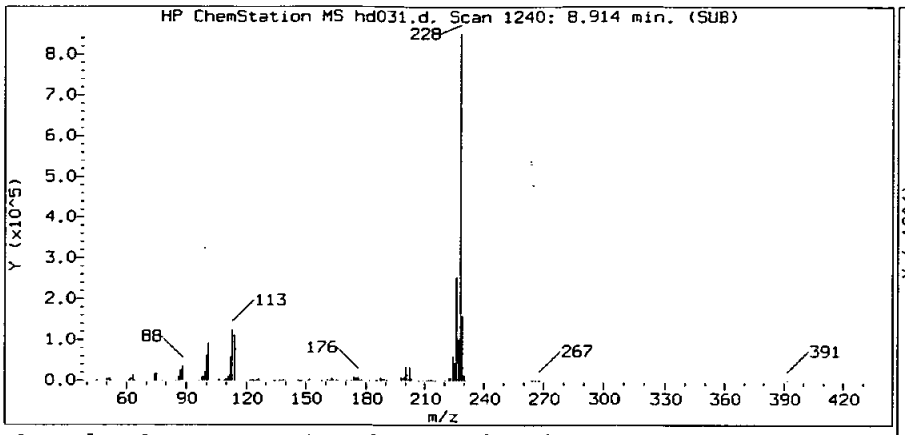
Sample Name: XXXXX

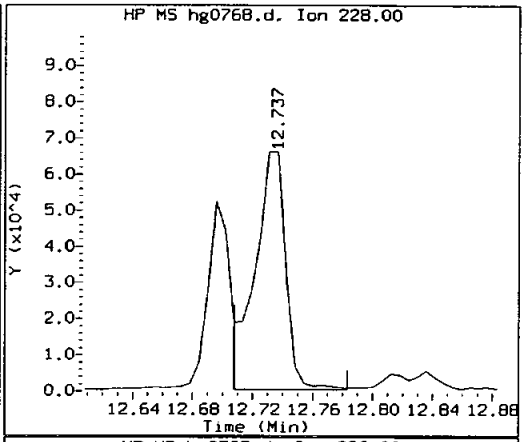
Lab Sample ID: 6721503

Compound Number	:	166
Compound Name	:	Benzo(a)anthracene
Scan Number	:	1803
Retention Time (minutes)	:	12.696
Relative Retention Time	:	0.00051
Quant Ion	:	228.00
Area (flag)	:	50294
On-column Amount (ng/ul)	:	2.9203

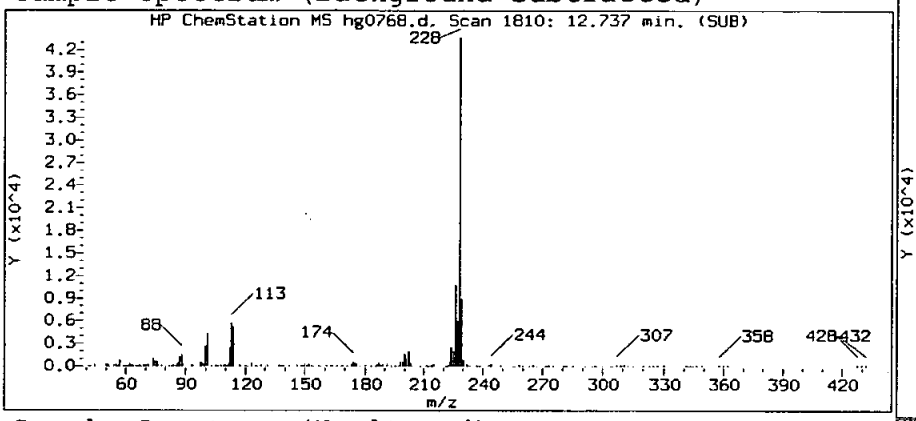
Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

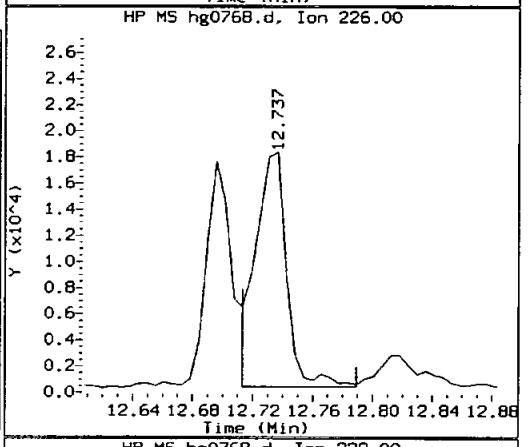
Reference Standard Spectrum for Chrysene



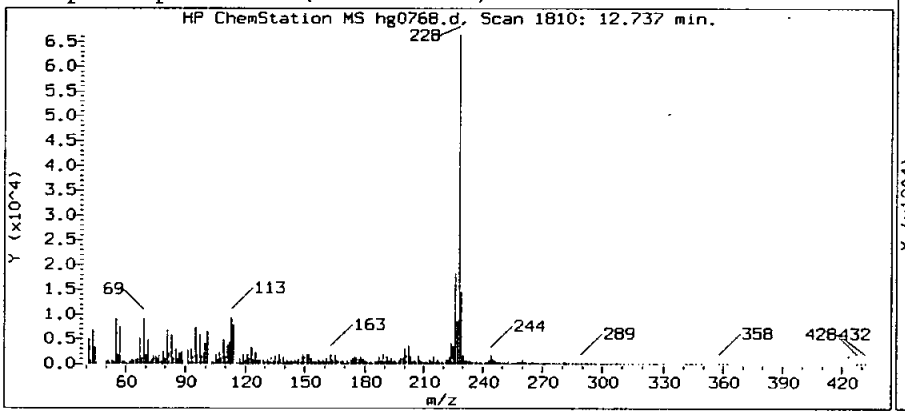


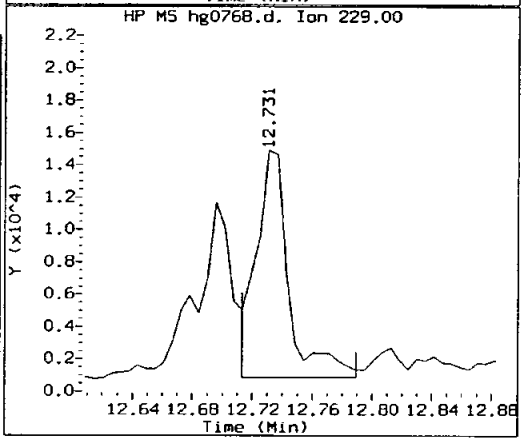
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Compound Number	: 168
Compound Name	: Chrysene
Scan Number	: 1810
Retention Time (minutes)	: 12.737
Relative Retention Time	:-0.00000
Quant Ion	: 228.00
Area (flag)	: 94937
On-column Amount (ng/ul)	: 5.4691

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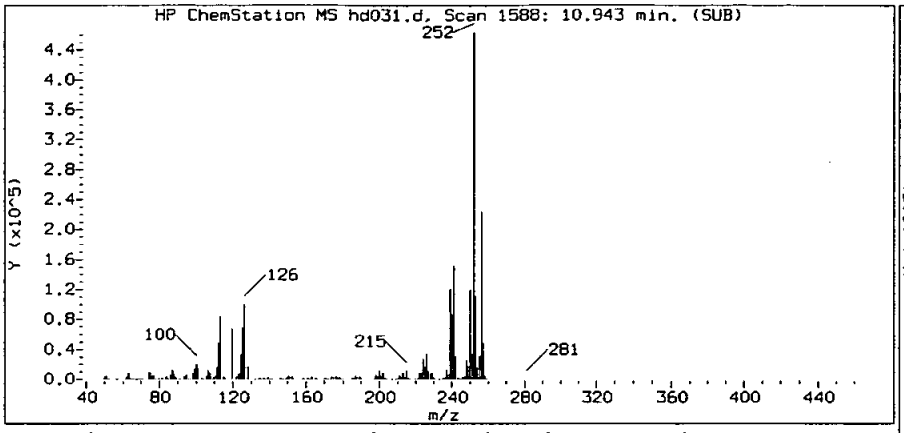
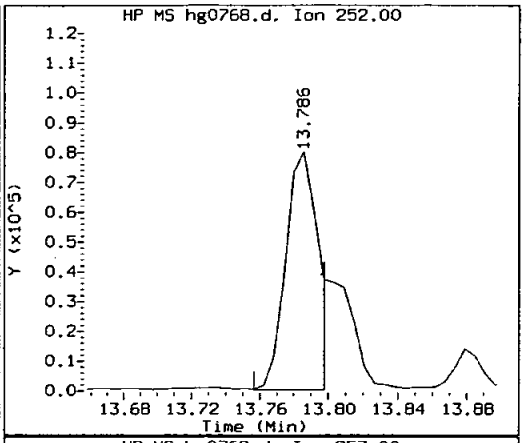
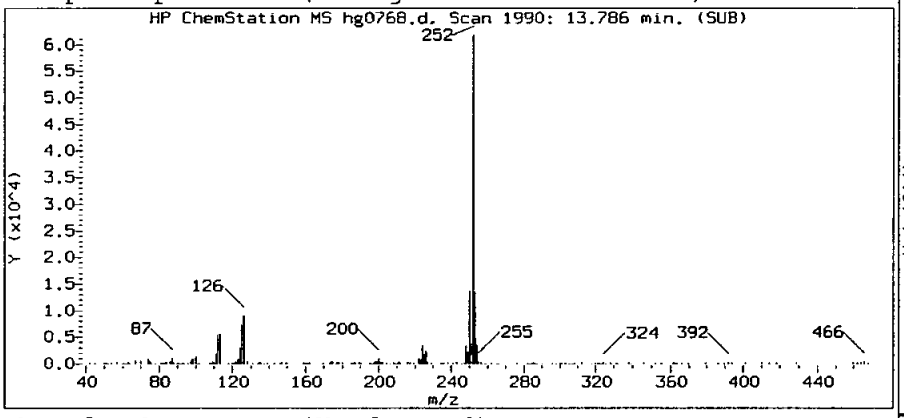
Target 3.5 esignature user ID: jmg00346

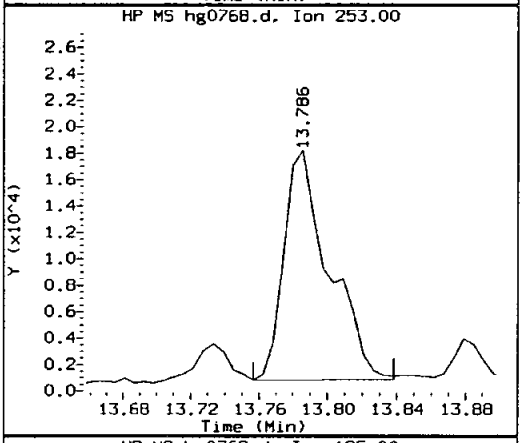
Reference Standard Spectrum for Benzo(b)fluoranthene



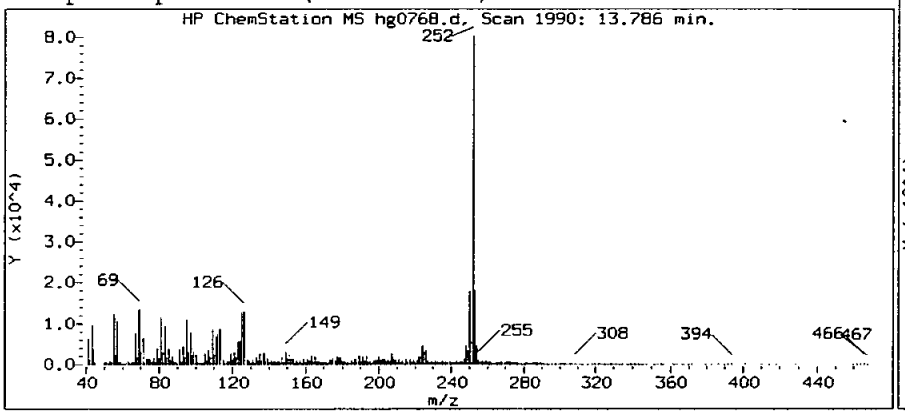


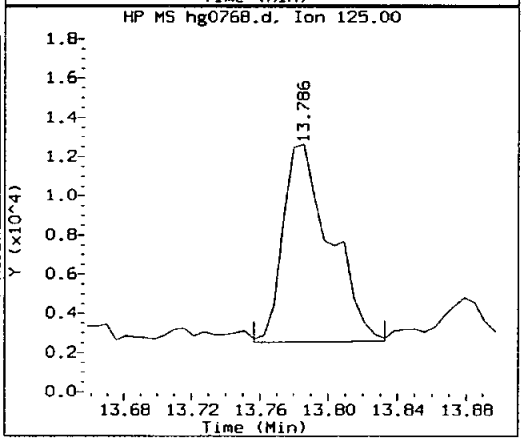
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Compound Number	:	172
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1990
Retention Time (minutes)	:	13.786
Relative Retention Time	:	0.00040
Quant Ion	:	252.00
Area (flag)	:	104892M
On-column Amount (ng/ul)	:	7.9696

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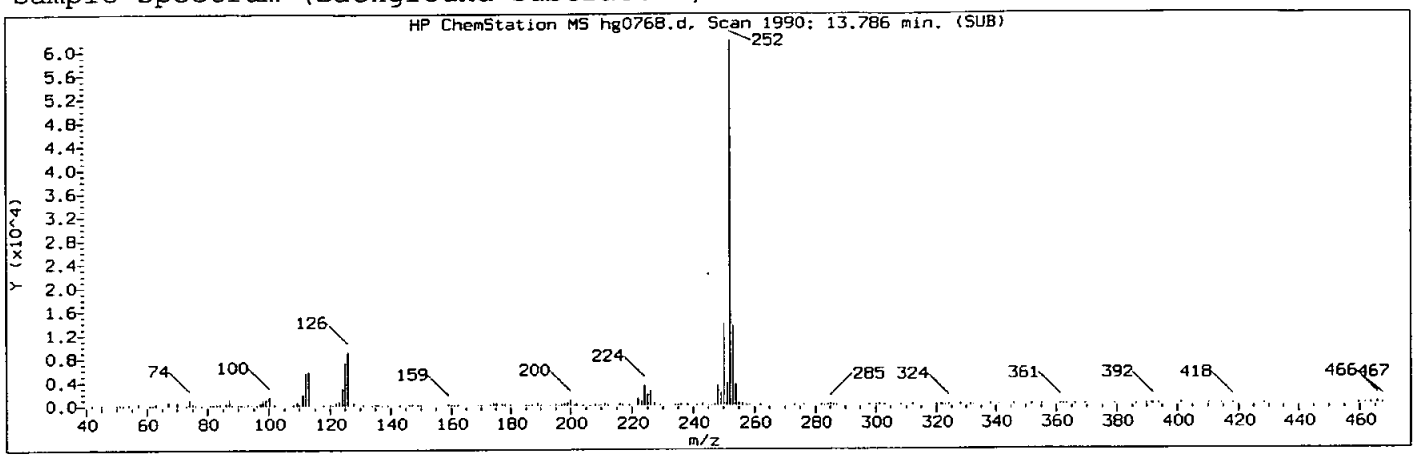
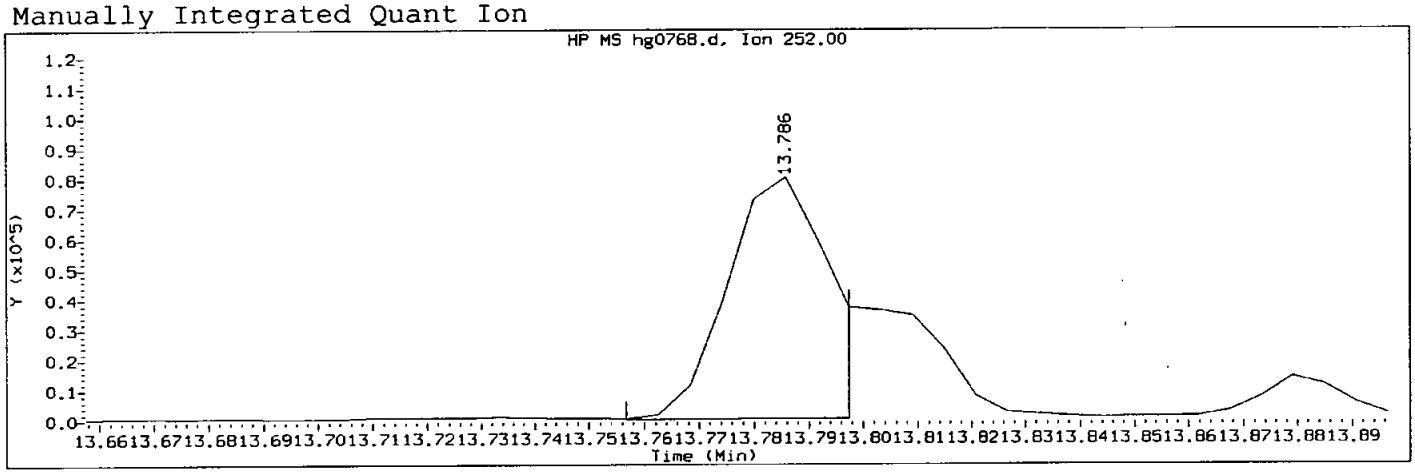
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721503

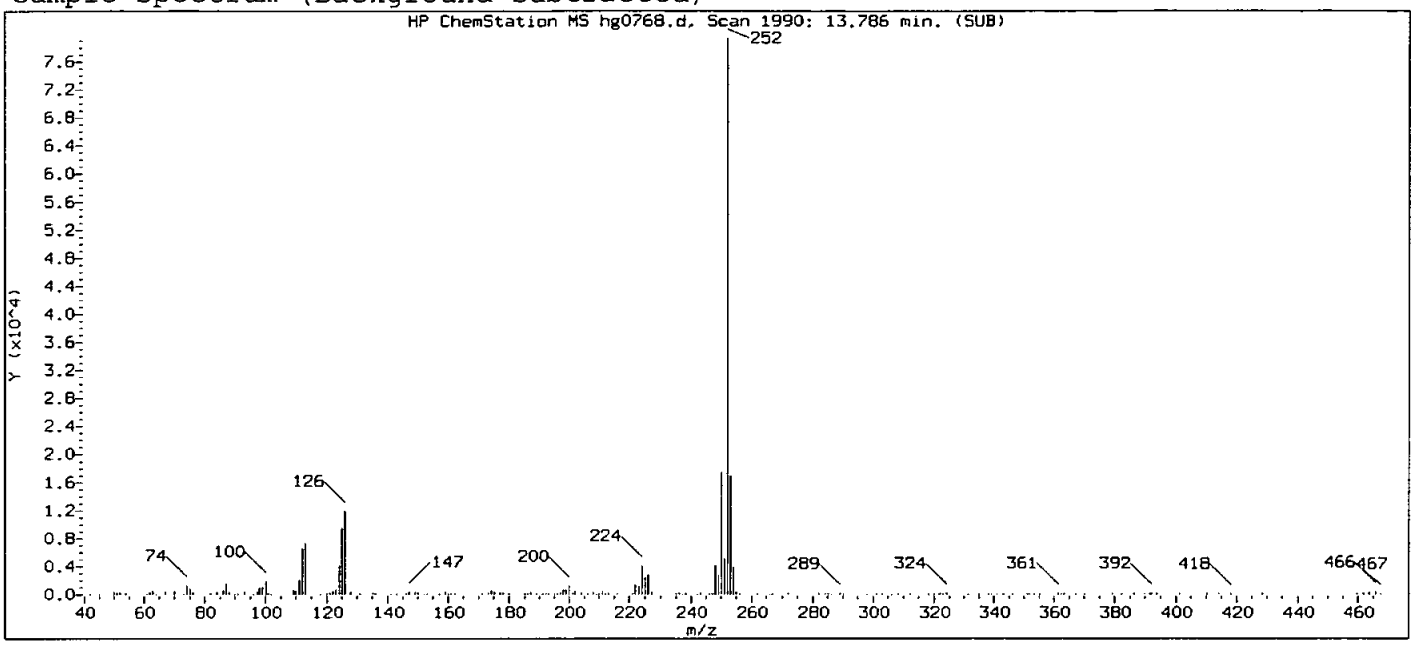
Compound Number	: 172		
Compound Name	: Benzo(b)fluoranthene		
Scan Number	: 1990		
Retention Time (minutes)	: 13.786		
Quant Ion	: 252.00		
Area (flag)	: 104892M		
On-column Amount (ng/ul)	: 7.9696		
Integration start scan	: 1984	Integration stop scan:	1991
Y at integration start	: 472	Y at integration end:	482

Reason for manual integration: improper integration

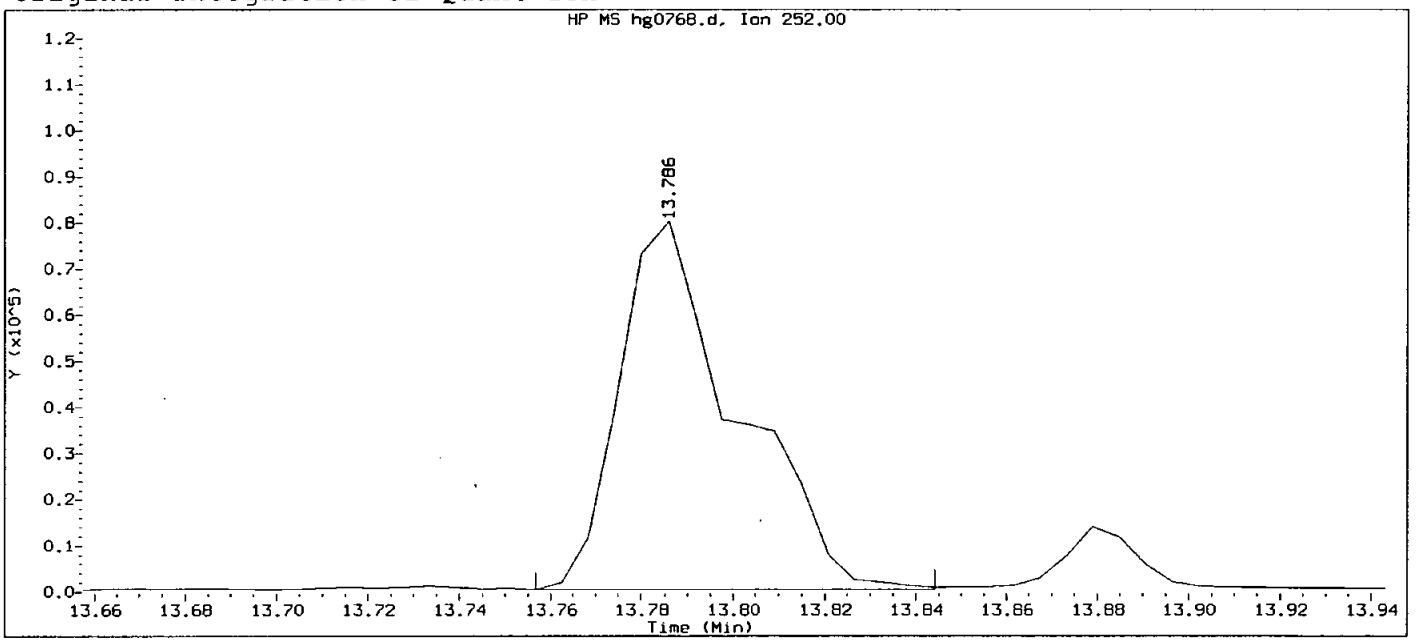
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Irene L. Dodd on 07/19/2012 at 13:59.
Parallax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

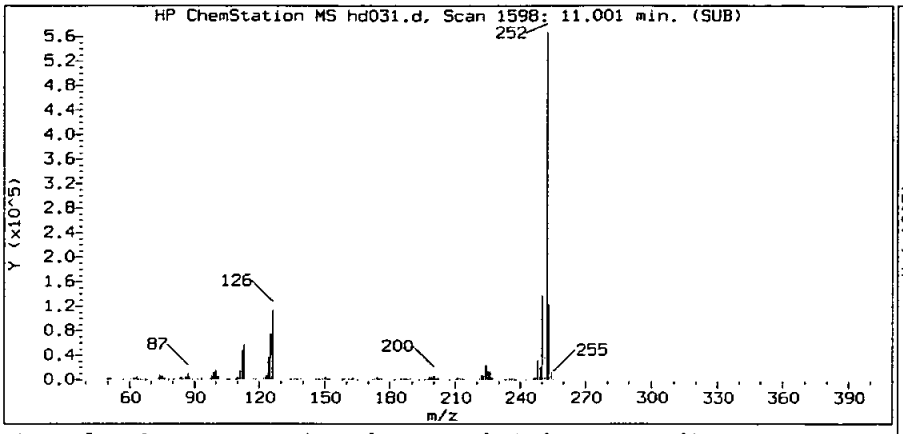
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:09 Automation

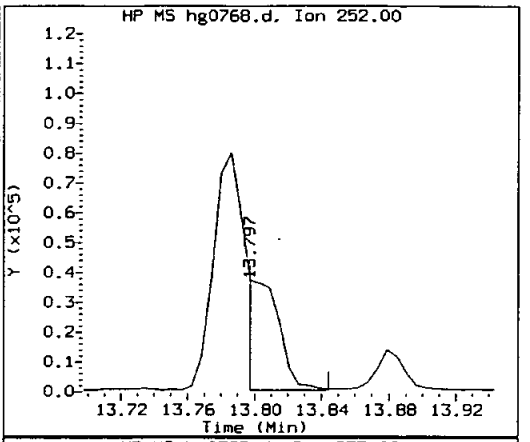
Sample Name: XXXXX Lab Sample ID: 6721503

Compound Number	:	172
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1990
Retention Time (minutes)	:	13.786
Quant Ion	:	252.00
Area	:	141778
On-column Amount (ng/ul)	:	10.7721
Integration start scan	:	1984 Integration stop scan: 1999
Y at integration start	:	472 Y at integration end: 494

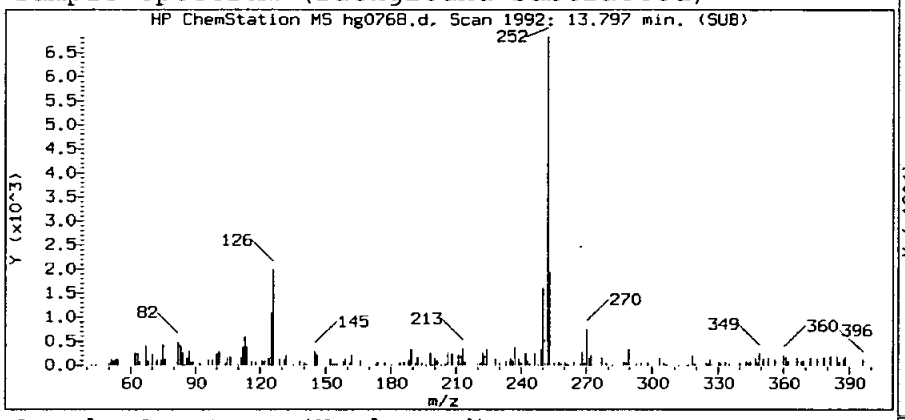
Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

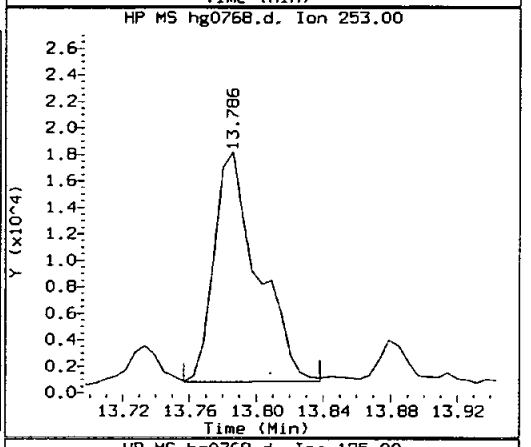
Reference Standard Spectrum for Benzo(k)fluoranthene



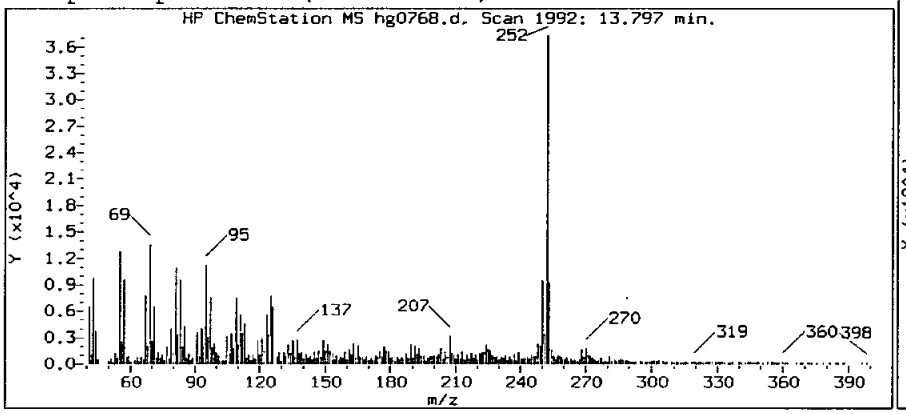


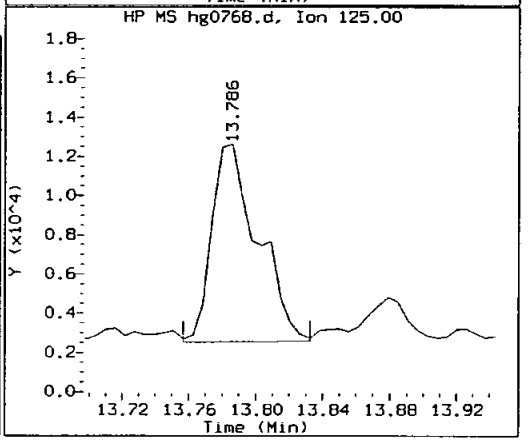
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

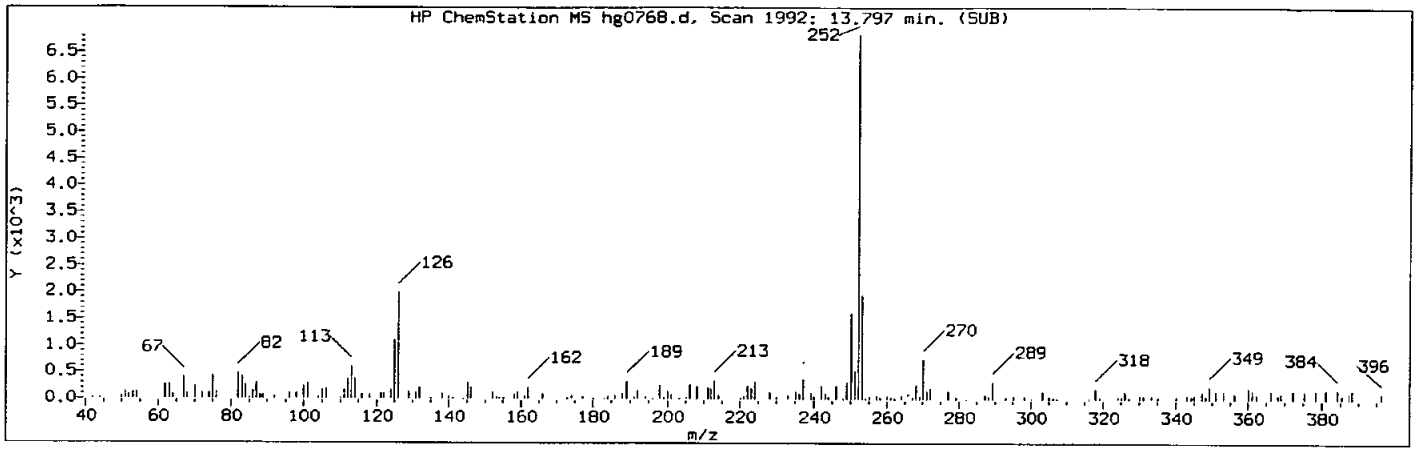
Sample Name: XXXXX

Lab Sample ID: 6721503

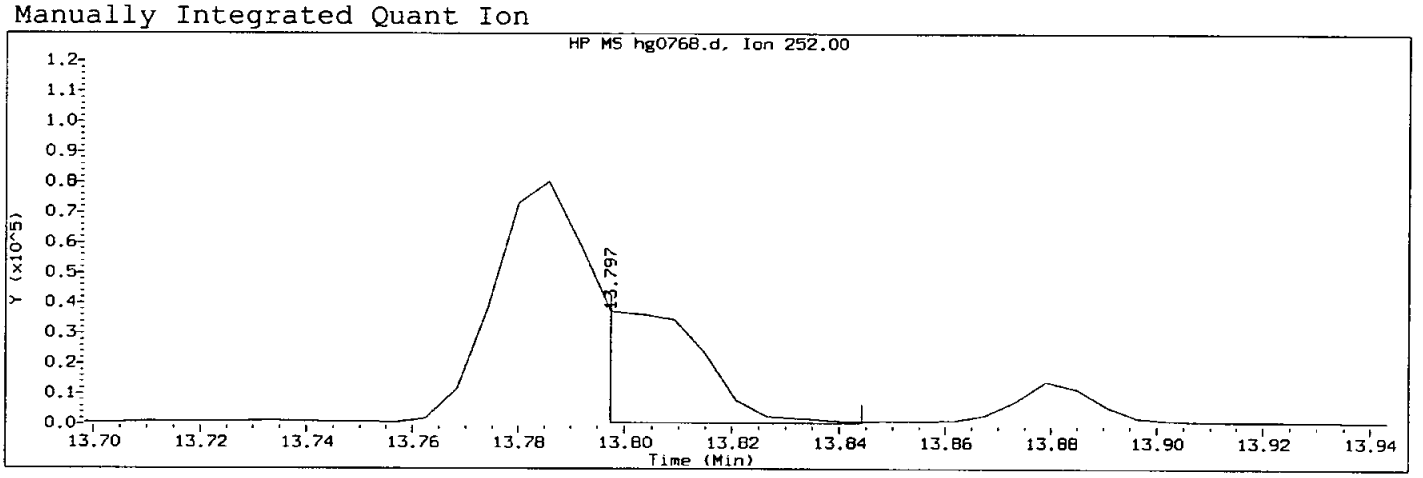
Compound Number	: 173
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1992
Retention Time (minutes)	: 13.797
Relative Retention Time	: 0.00164
Quant Ion	: 252.00
Area (flag)	: 49826M
On-column Amount (ng/ul)	: 3.8248

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721503

Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1992
Retention Time (minutes)	:	13.797
Quant Ion	:	252.00
Area (flag)	:	49826M
On-column Amount (ng/ul)	:	3.8248
Integration start scan	:	1991 Integration stop scan: 1999
Y at integration start	:	505 Y at integration end: 505

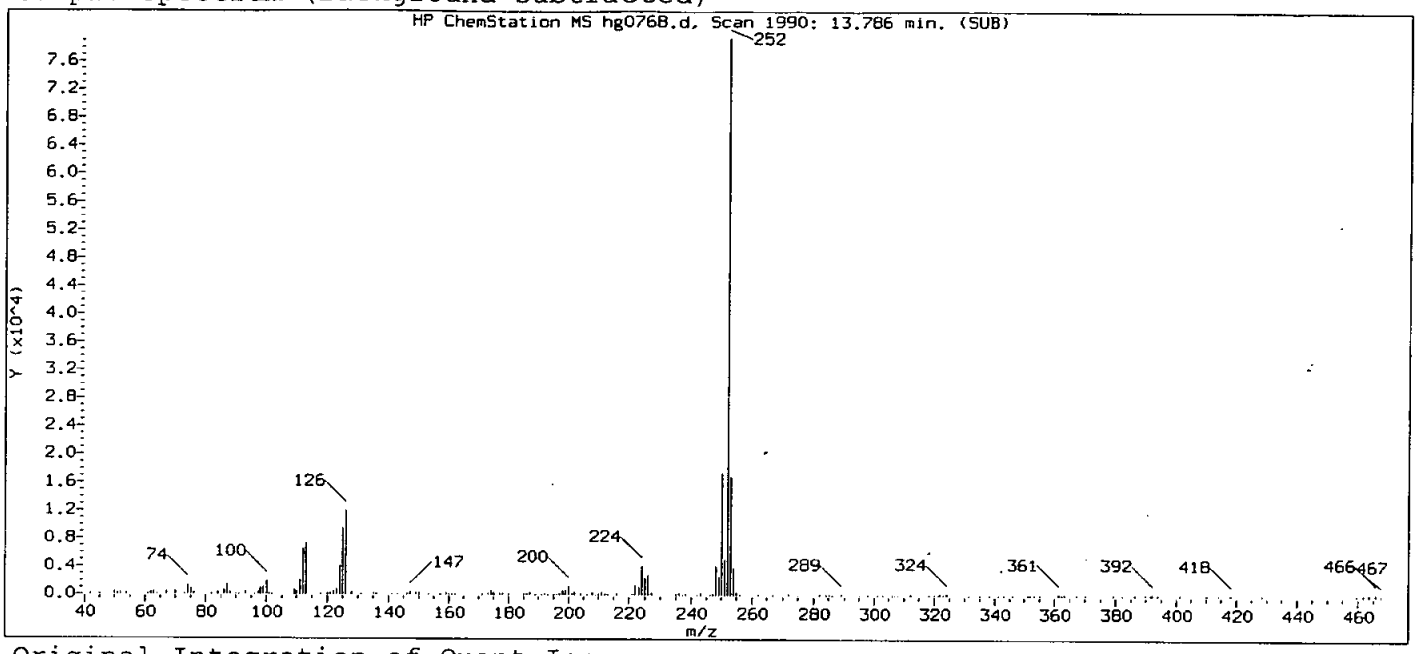
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20 Target 3.5 esignature user ID: jmg00346

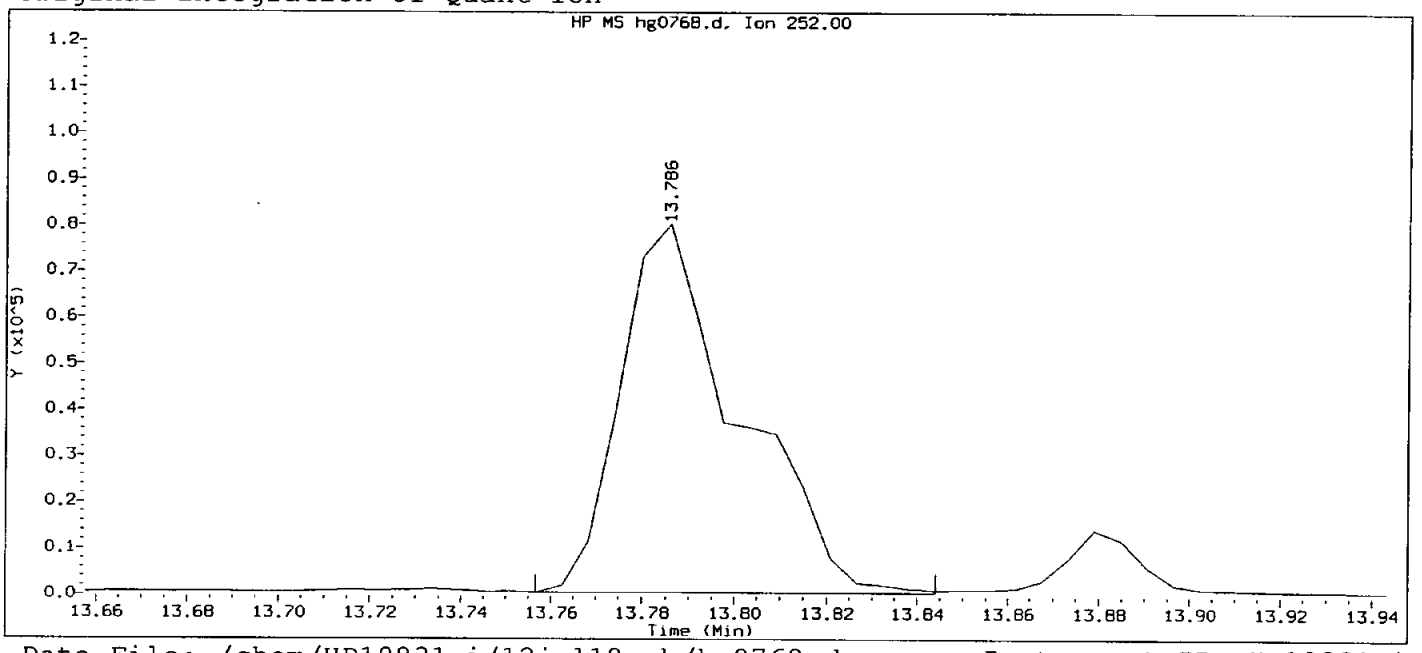
Secondary review performed and digitally signed by Irene L. Dodd on 07/19/2012 at 13:59
Parallax ID: 11d00415

ASX73 0650

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

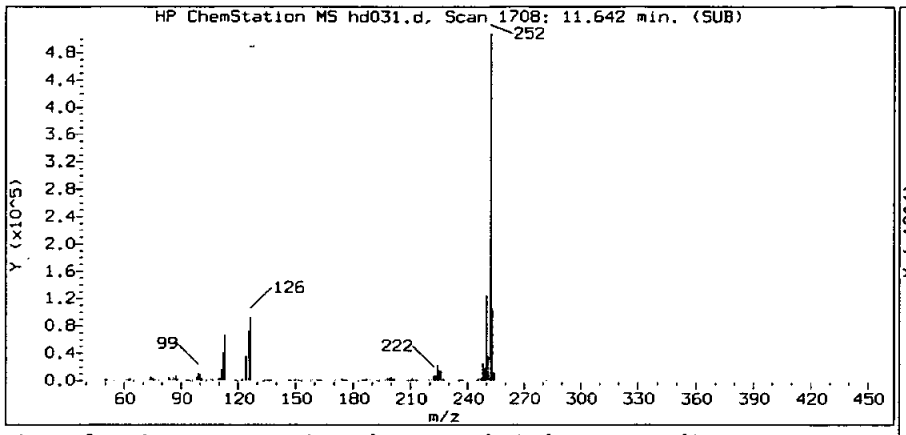
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:09 Automation

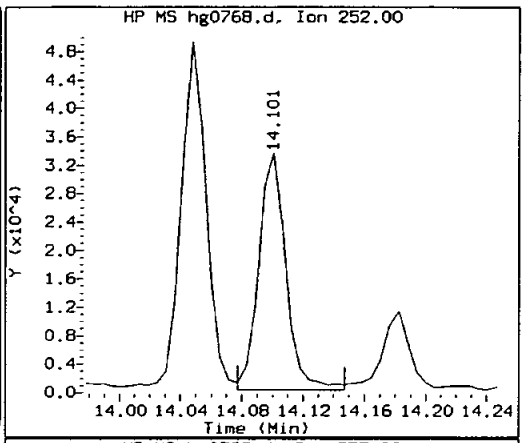
Sample Name: XXXXX Lab Sample ID: 6721503

Compound Number	: 173	
Compound Name	: Benzo(k)fluoranthene	
Scan Number	: 1990	
Retention Time (minutes)	: 13.786	
Quant Ion	: 252.00	
Area	: 141777	
On-column Amount (ng/ul)	: 10.8832	
Integration start scan	: 1984	Integration stop scan: 1999
Y at integration start	: 472	Y at integration end: 494

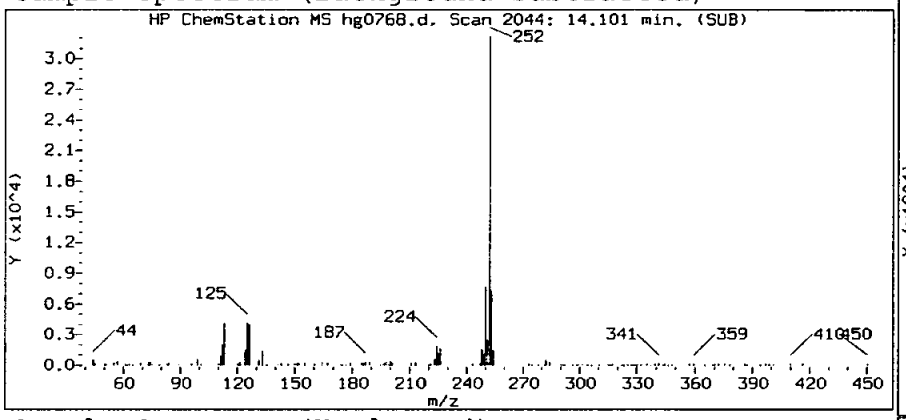
Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

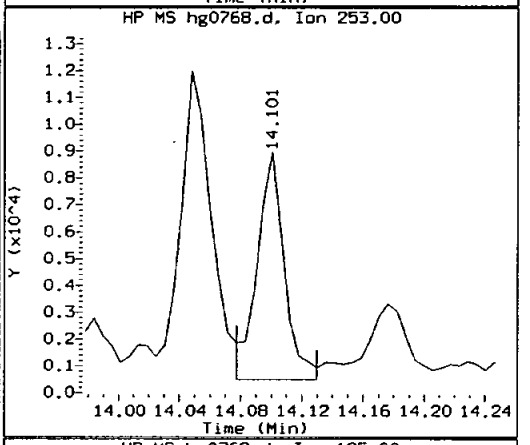
Reference Standard Spectrum for Benzo(a)pyrene



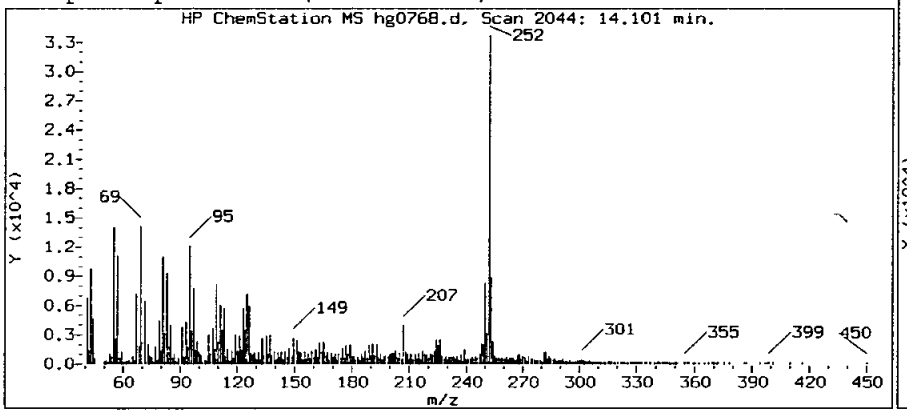


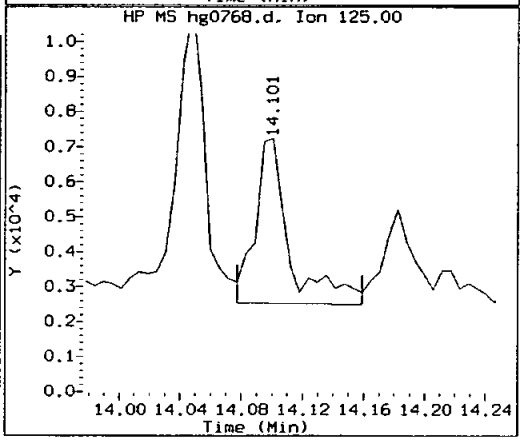
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Compound Number	: 174
Compound Name	: Benzo(a)pyrene
Scan Number	: 2044
Retention Time (minutes)	: 14.101
Relative Retention Time	: 0.00041
Quant Ion	: 252.00
Area (flag)	: 41065
On-column Amount (ng/ul)	: 3.4794

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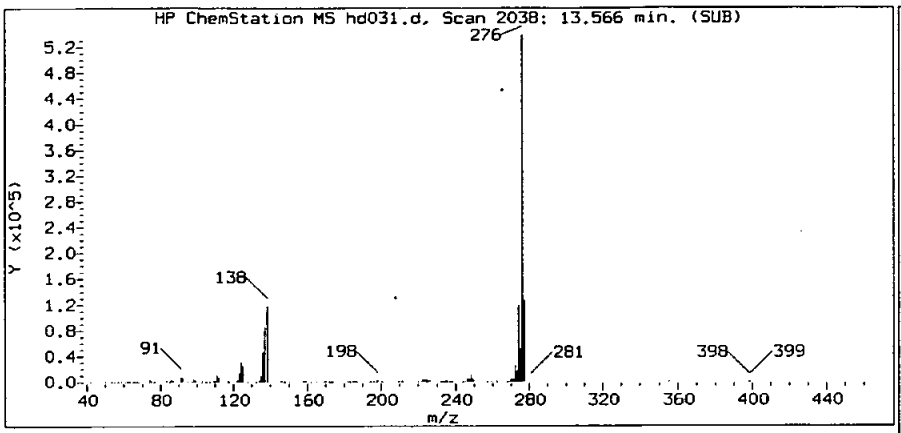
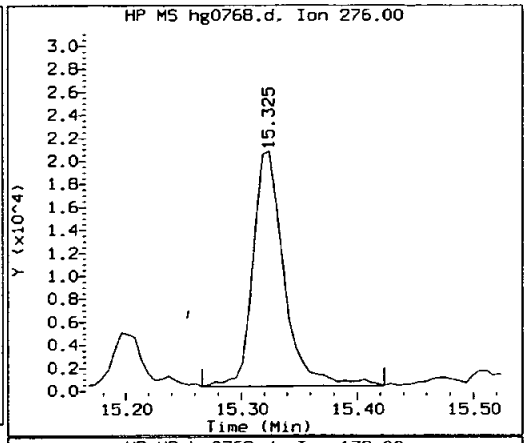
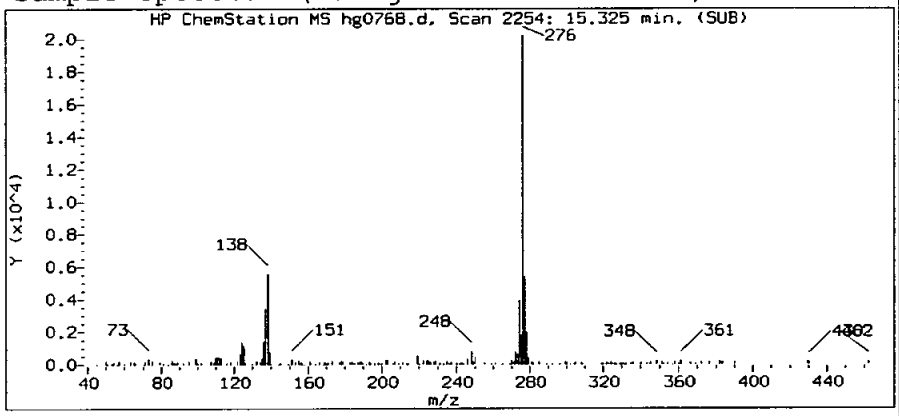
Target 3.5 esignature user ID: jmg00346

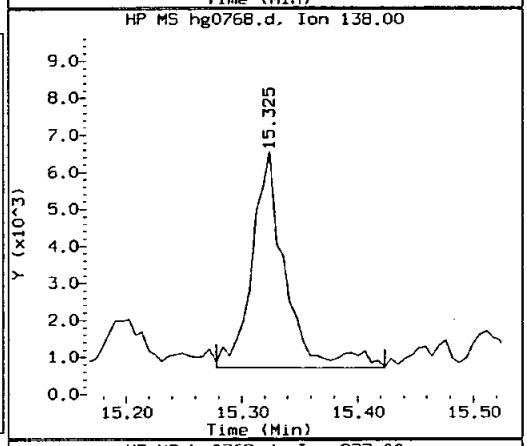
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



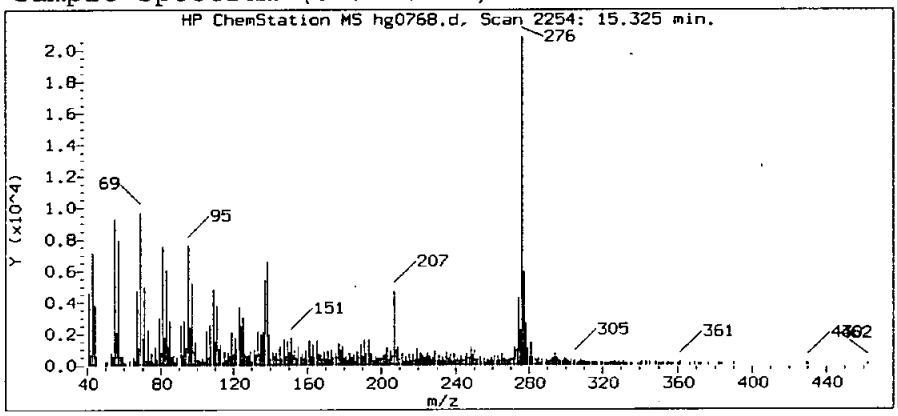


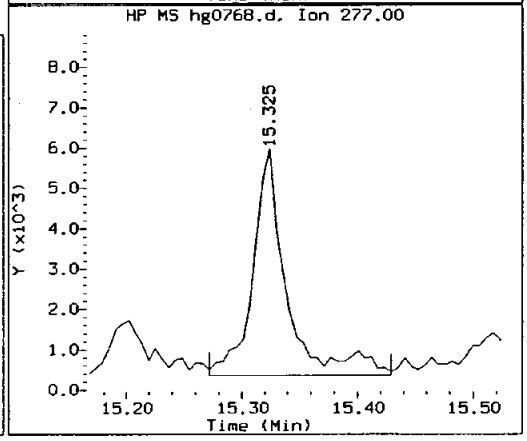
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

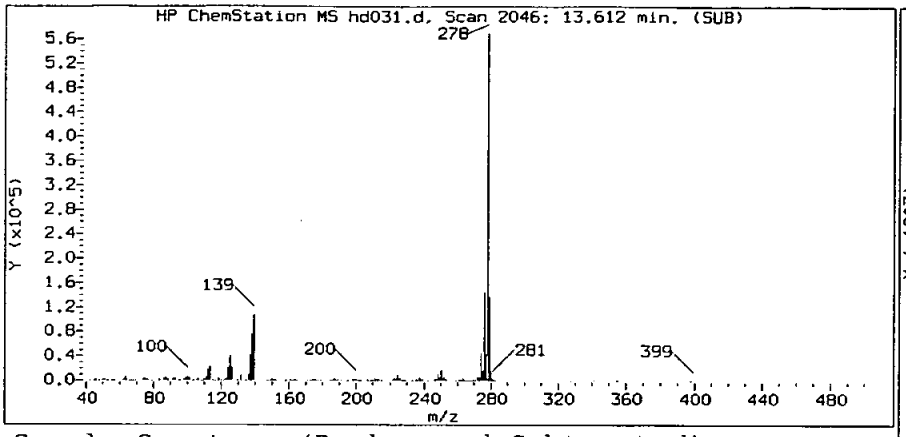
Sample Name: XXXXX

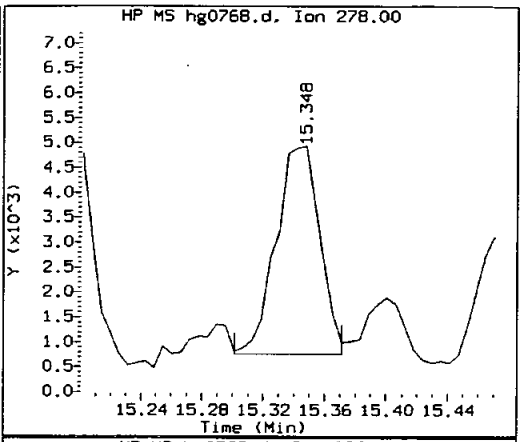
Lab Sample ID: 6721503

Compound Number	: 177
Compound Name	: Indeno(1,2,3-cd)pyrene
Scan Number	: 2254
Retention Time (minutes)	: 15.325
Relative Retention Time	: 0.00086
Quant Ion	: 276.00
Area (flag)	: 38668
On-column Amount (ng/ul)	: 3.3895

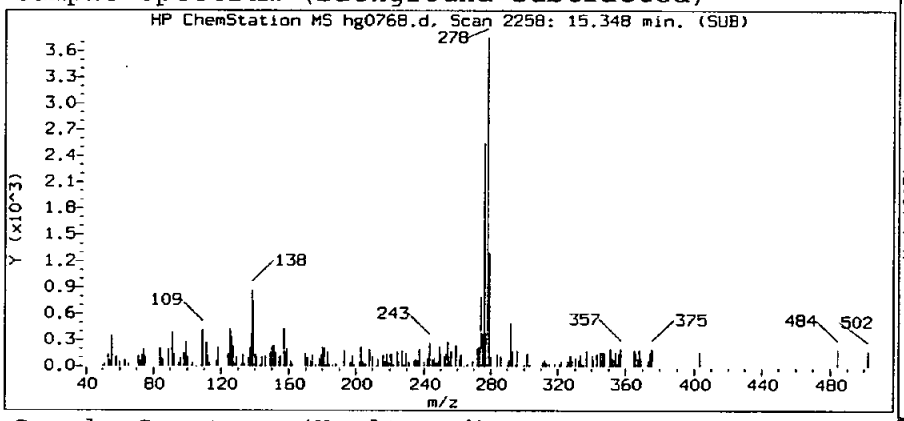
Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

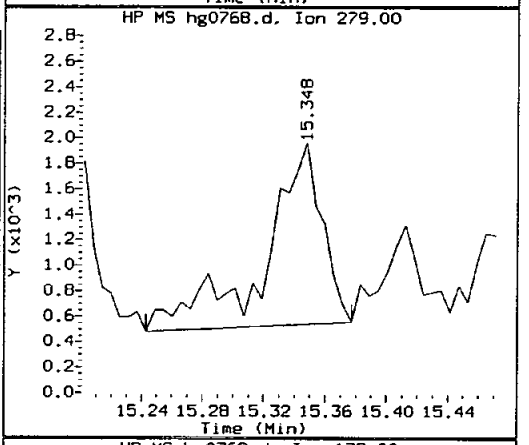
Reference Standard Spectrum for Dibenz(a,h)anthracene



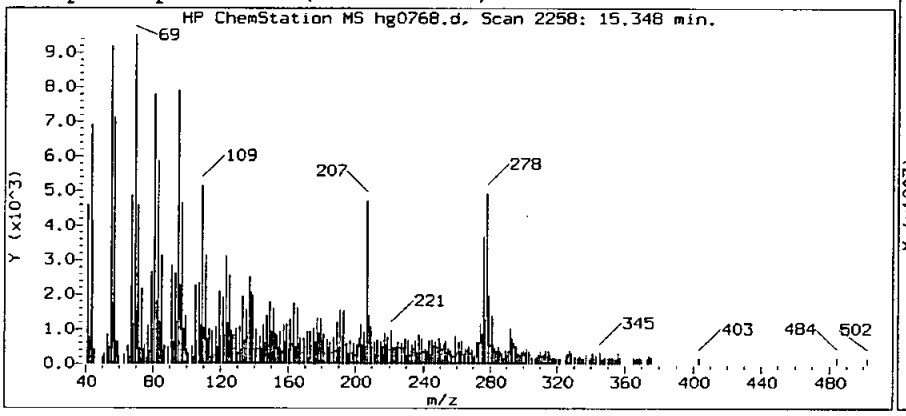


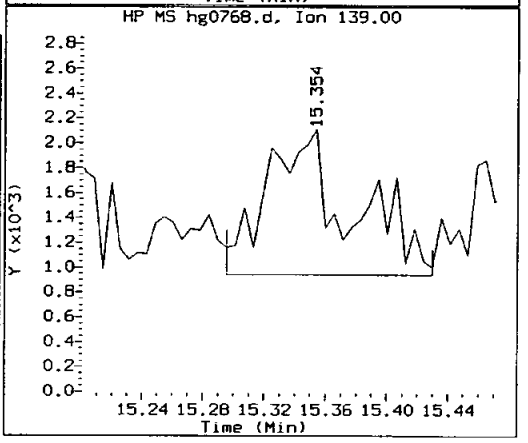
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

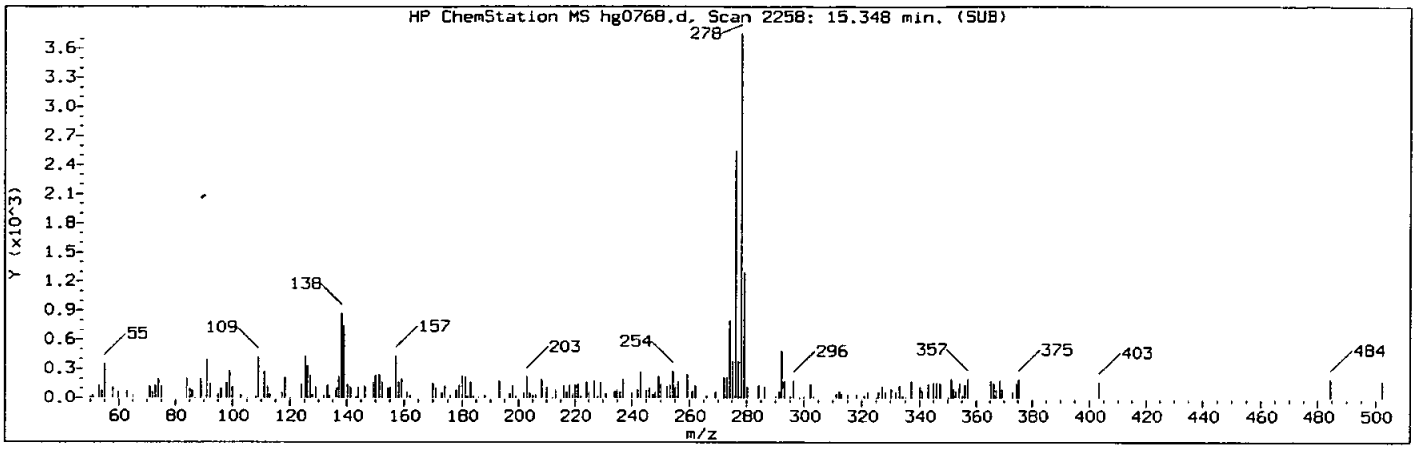
Sample Name: XXXXX

Lab Sample ID: 6721503

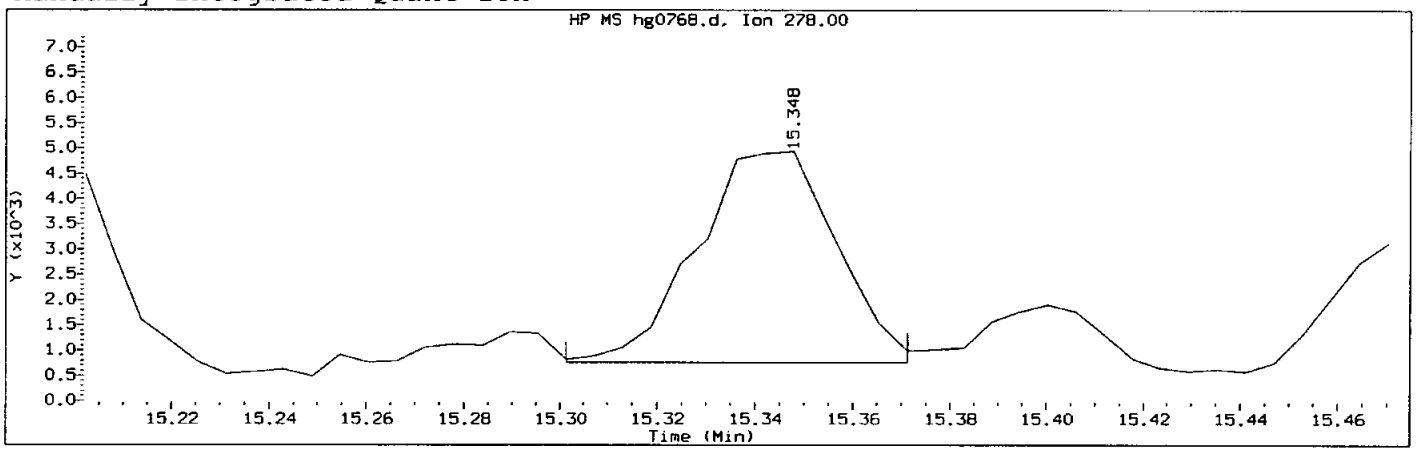
Compound Number	: 178
Compound Name	: Dibenz(a,h)anthracene
Scan Number	: 2258
Retention Time (minutes)	: 15.348
Relative Retention Time	: 0.00086
Quant Ion	: 278.00
Area (flag)	: 8275M
On-column Amount (ng/ul)	: 0.8830

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX Lab Sample ID: 6721503

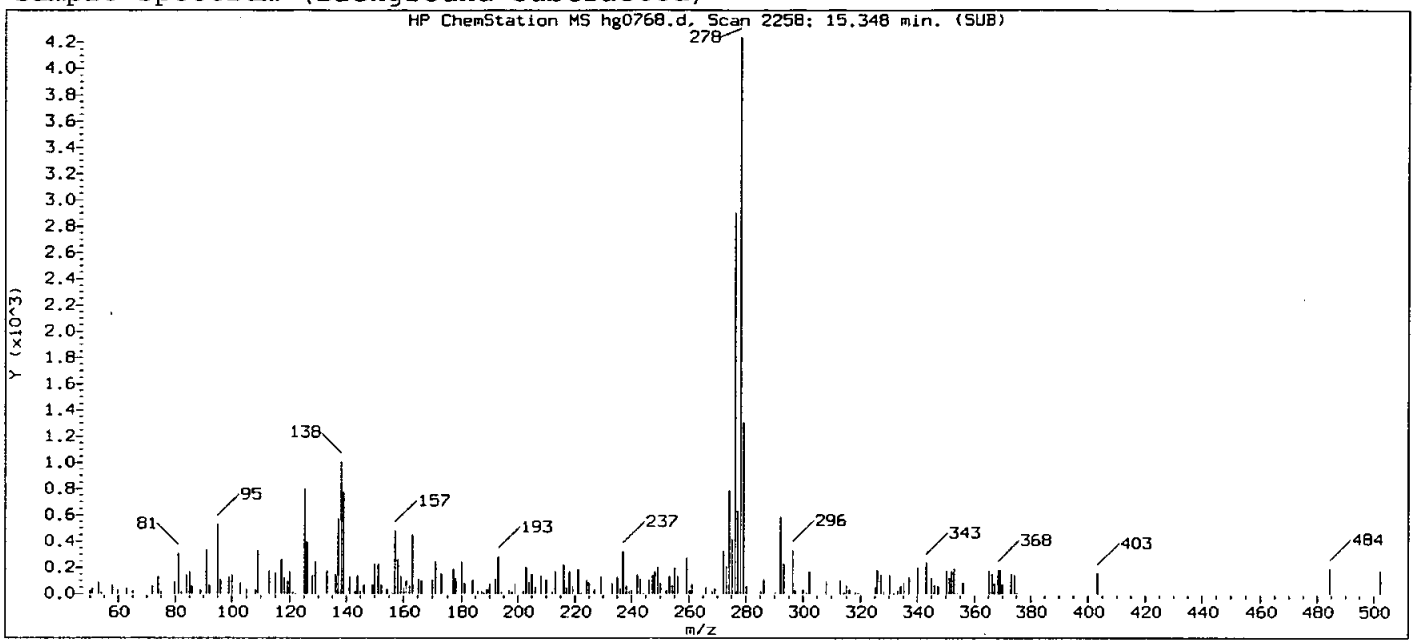
Compound Number	: 178		
Compound Name	: Dibenz(a,h)anthracene		
Scan Number	: 2258		
Retention Time (minutes)	: 15.348		
Quant Ion	: 278.00		
Area (flag)	: 8275M		
On-column Amount (ng/ul)	: 0.8830		
Integration start scan	: 2249	Integration stop scan:	2261
Y at integration start	: 761	Y at integration end:	761

Reason for manual integration: improper integration

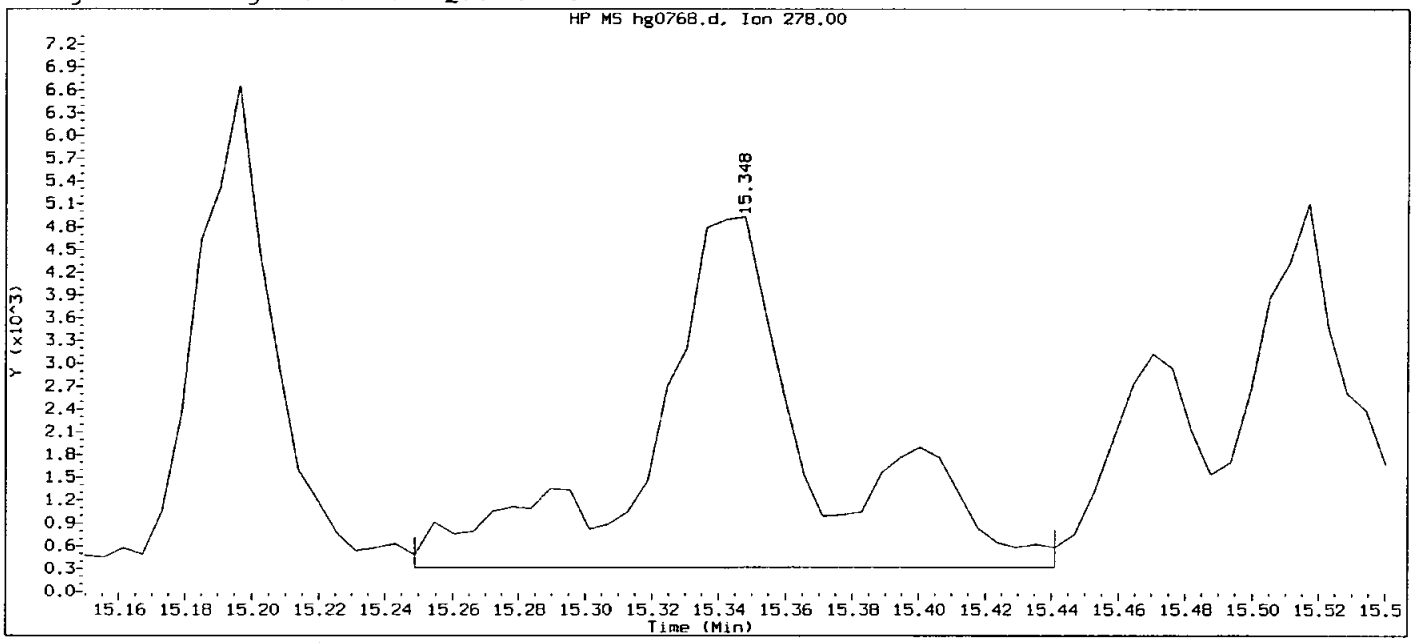
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Irene L. Dodd on 07/19/2012 at 13:59
Paralax ID: ild00415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0768.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:52 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 05:09 Automation

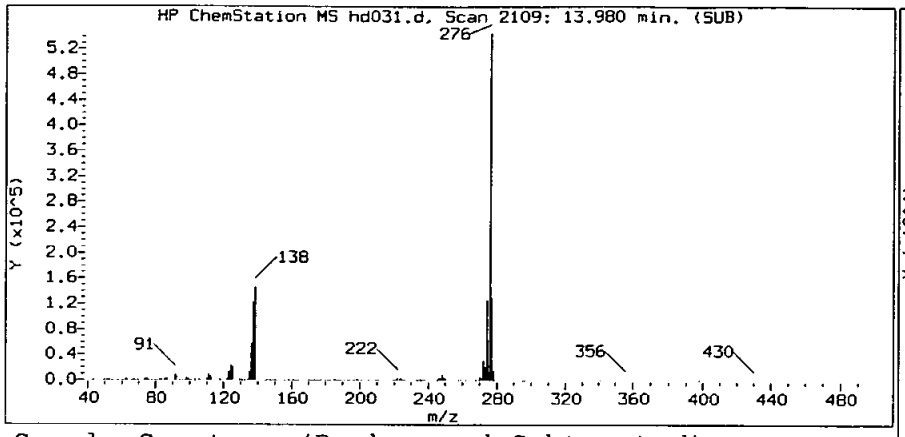
Sample Name: XXXXX Lab Sample ID: 6721503

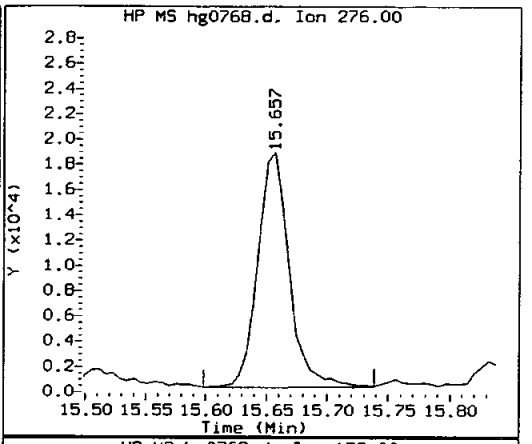
Compound Number	: 178	
Compound Name	: Dibenz(a,h)anthracene	
Scan Number	: 2258	
Retention Time (minutes)	: 15.348	
Quant Ion	: 278.00	
Area	: 15752	
On-column Amount (ng/ul)	: 1.6809	
Integration start scan	: 2240	Integration stop scan: 2273
Y at integration start	: 317	Y at integration end: 319

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

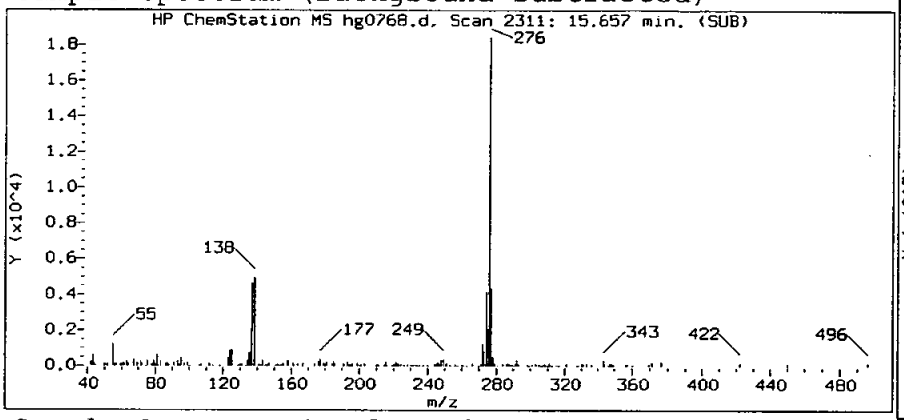
ASX73 0656

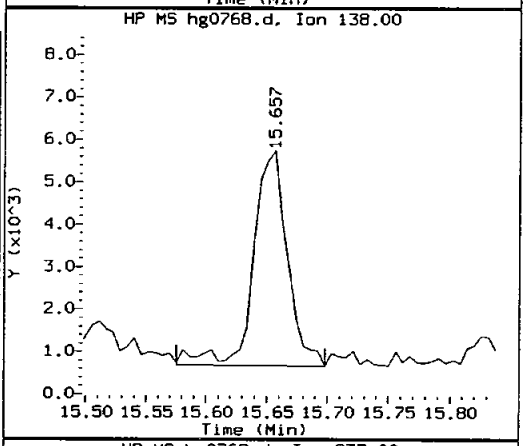
Reference Standard Spectrum for Benzo(g,h,i)perylene



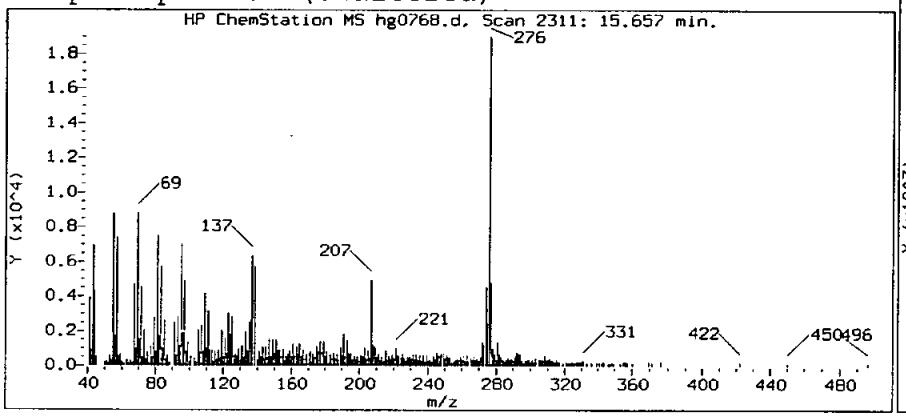


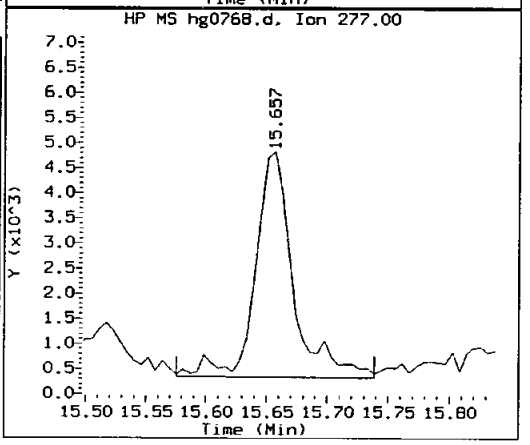
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul18a.b/hg0768.d
Injection date and time: 19-JUL-2012 04:52

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:20 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721503

Compound Number	:	179
Compound Name	:	Benzo(g,h,i)perylene
Scan Number	:	2311
Retention Time (minutes)	:	15.657
Relative Retention Time	:	0.00087
Quant Ion	:	276.00
Area (flag)	:	33625
On-column Amount (ng/ul)	:	3.4907

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:20.
Target 3.5 esignature user ID: jmg00346

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6721504

Data file: /chem/HP18831.i/12jul19.b/hg0825.d
Data file Sample Info. Line: XXXXX;6721504;
Date, time and analyst ID of latest file update: 20-Jul-2012 06:29 jmg00346

Injection date and time: **19-JUL-2012 12:49**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **WL155**
Calibration date and time (Last Method Edit): 20-JUL-2012 04:10
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1060 ml Volume Injected (Vi): 1 ul

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	5.667(-0.006)	597	152	75532 (-3)	20.00	
52) Naphthalene-d8	6.896(0.000)	808	136	295655 (-8)	20.00	
98) Acenaphthene-d10	8.616(-0.006)	1103	164	175257 (-12)	20.00	
135) Phenanthrene-d10	10.073(-0.006)	1353	188	315121 (-14)	20.00	
167) Pyrene-d10	11.466(-0.012)	1592	212	348934 (-19)	20.00	
175) Perylene-d12	14.130(-0.012)	2049	264	213673 (-29)	20.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
9) 2-Fluorophenol	(1)	4.402(-0.003)	112	635356	99.829	50%		10 - 98
15) Phenol-d6	(1)	5.340(-0.003)	99	559143	62.031	31%		10 - 74
38) Nitrobenzene-d5	(2)	6.209(-0.002)	82	690918	84.893	85%		52 - 120
78) 2-Fluorobiphenyl	(3)	7.963(0.000)	172	995895	85.177	85%		63 - 114
119) 2,4,6-Tribromophenol	(3)	9.397(-0.001)	330	228393	203.903	102%		22 - 150
156) Terphenyl-d14	(5)	11.653(0.000)	244	1128368	96.581	97%		34 - 118

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
16) Phenol	(1)			Not Detected					0.5
18) bis(2-Chloroethyl)ether	(1)			Not Detected					0.5
19) 2-Chlorophenol	(1)			Not Detected					0.5
20) 1,3-Dichlorobenzene	(1)			Not Detected					0.5
22) 1,4-Dichlorobenzene	(1)			Not Detected					0.5
25) 1,2-Dichlorobenzene	(1)			Not Detected					0.5
26) 2-Methylphenol	(1)			Not Detected					0.5
27) 2,2'-oxybis(1-Chloropropane)	(1)			Not Detected					0.5
31) N-Nitroso-di-n-propylamine	(1)			Not Detected					0.5
33) 4-Methylphenol	(1)			Not Detected					0.5
37) Hexachloroethane	(1)			Not Detected					1
39) Nitrobenzene	(2)			Not Detected					0.5
41) Isophorone	(2)			Not Detected					0.5
42) 2-Nitrophenol	(2)			Not Detected					0.5
44) 2,4-Dimethylphenol	(2)			Not Detected					0.5
46) bis(2-Chloroethoxy)methane	(2)			Not Detected					0.5
49) 2,4-Dichlorophenol	(2)			Not Detected					0.5
50) 1,2,4-Trichlorobenzene	(2)			Not Detected					0.5
53) Naphthalene	(2)	6.920(-0.000)	128	2021M	0.120	0.11			0.1
56) 4-Chloroaniline	(2)			Not Detected					0.5
60) Hexachlorobutadiene	(2)			Not Detected					0.5
68) 4-Chloro-3-methylphenol	(2)			Not Detected					0.5
70) 2-Methylnaphthalene	(2)			Not Detected					0.1
72) Hexachlorocyclopentadiene	(3)			Not Detected					5
75) 2,4,6-Trichlorophenol	(3)			Not Detected					0.5
77) 2,4,5-Trichlorophenol	(3)			Not Detected					0.5
84) 2-Chloronaphthalene	(3)			Not Detected					0.4

M = Compound was manually integrated.

Digitally signed by Joseph M. Gambler on 07/20/2012 at 06:33. Target 3.5 esignature user ID: jmg00346

ASX73 0658

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6721504

Data file: /chem/HP18831.i/12jul19.b/hg0825.d
Data file Sample Info. Line: XXXXX;6721504;
Date, time and analyst ID of latest file update: 20-Jul-2012 06:29 jmg00346

Injection date and time: **19-JUL-2012 12:49**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **WL155**
Calibration date and time (Last Method Edit): 20-JUL-2012 04:10
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1060 ml Volume Injected (Vi): 1 ul

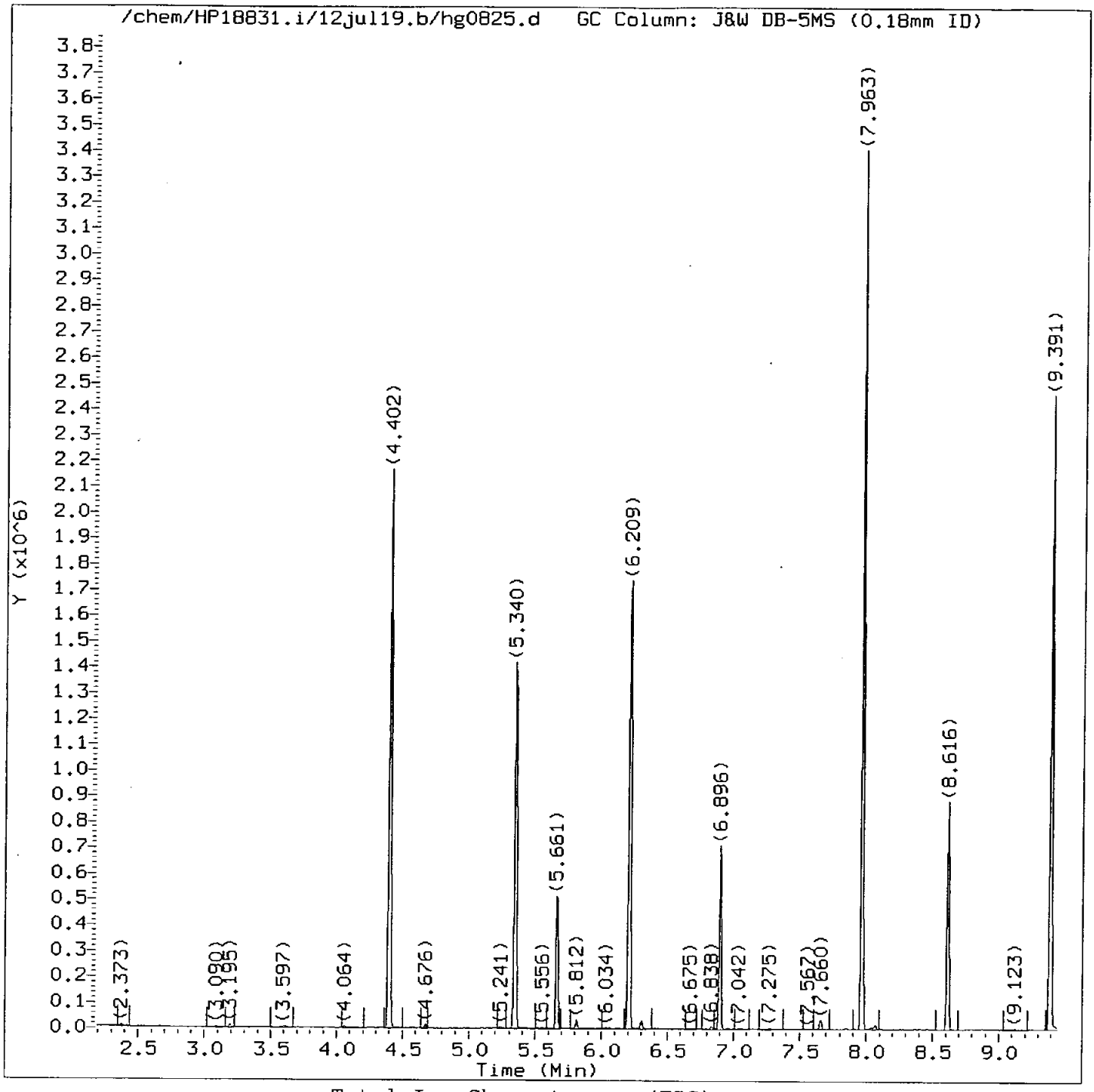
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
89) 2-Nitroaniline	(3)			Not Detected					0.5
92) Dimethylphthalate	(3)			Not Detected					2
94) 2,6-Dinitrotoluene	(3)			Not Detected					0.5
95) Acenaphthylene	(3)			Not Detected					0.1
97) 3-Nitroaniline	(3)			Not Detected					0.5
99) Acenaphthene	(3)			Not Detected					0.1
100) 2,4-Dinitrophenol	(3)			Not Detected					10
103) 4-Nitrophenol	(3)			Not Detected					10
104) Dibenzofuran	(3)			Not Detected					0.5
105) 2,4-Dinitrotoluene	(3)			Not Detected					1
109) Diethylphthalate	(3)			Not Detected					2
111) Fluorene	(3)			Not Detected					0.1
112) 4-Chlorophenyl-phenylether	(3)			Not Detected					0.5
114) 4-Nitroaniline	(3)			Not Detected					0.5
115) 4,6-Dinitro-2-methylphenol	(4)			Not Detected					5
117) N-Nitrosodiphenylamine	(4)			Not Detected					0.5
125) 4-Bromophenyl-phenylether	(4)			Not Detected					0.5
127) Hexachlorobenzene	(4)			Not Detected					0.1
131) Pentachlorophenol	(4)			Not Detected					1
137) Phenanthrene	(4)			Not Detected					0.1
138) Anthracene	(4)			Not Detected					0.1
140) Carbazole	(4)			Not Detected					0.5
142) Di-n-butylphthalate	(4)			Not Detected					2
147) Fluoranthene	(4)			Not Detected					0.1
154) Pyrene	(5)			Not Detected					0.1
161) Butylbenzylphthalate	(5)			Not Detected					2
164) 3,3'-Dichlorobenzidine	(5)			Not Detected					2
166) Benzo(a)anthracene	(5)			Not Detected					0.1
168) Chrysene	(5)			Not Detected					0.1
169) bis(2-Ethylhexyl)phthalate	(5)			Not Detected					2
170) Di-n-octylphthalate	(6)			Not Detected					2
172) Benzo(b)fluoranthene	(6)			Not Detected					0.1
173) Benzo(k)fluoranthene	(6)			Not Detected					0.1
174) Benzo(a)pyrene	(6)			Not Detected					0.1
177) Indeno(1,2,3-cd)pyrene	(6)			Not Detected					0.1
178) Dibenz(a,h)anthracene	(6)			Not Detected					0.1
179) Benzo(g,h,i)perylene	(6)			Not Detected					0.1

Total number of targets = 64

Digitally signed by Joseph M. Gambler on 07/20/2012 at 06:33. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Matthew E. Barton on 07/20/2012 at 11:11. Parallax ID: reb00745

ASX73 0659



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0825.d
Injection date and time: 19-JUL-2012 12:49

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 20-JUL-2012 04:10

Sublist used: WL155

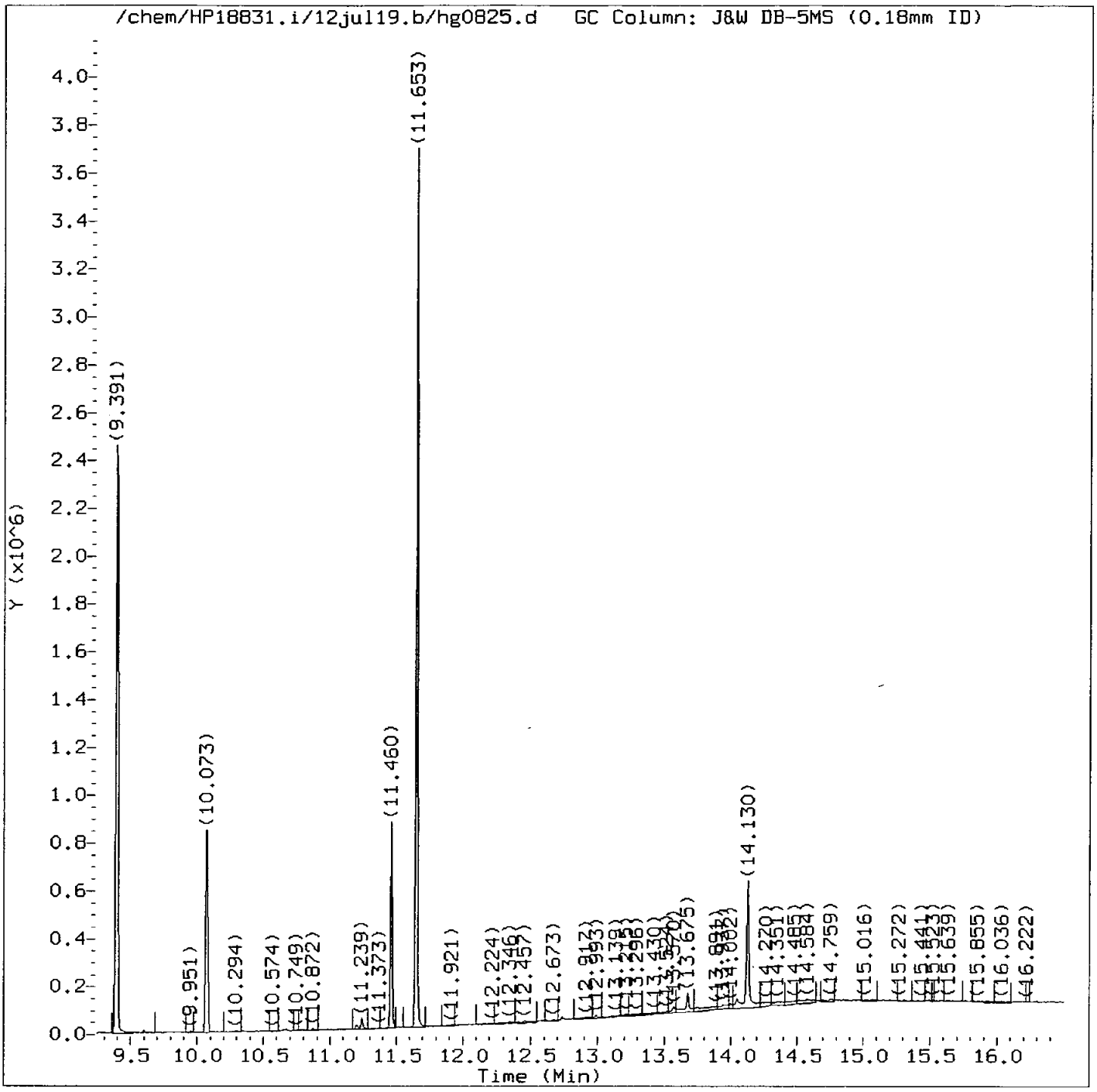
Date, time and analyst ID of latest file update: 20-Jul-2012 06:29 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721504

Digitally signed by Joseph M. Gambler
on 07/20/2012 at 06:33.
Target 3.5 esignature user ID: jmg00346

ASX73 0660



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0825.d
Injection date and time: 19-JUL-2012 12:49

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 20-JUL-2012 04:10

Sublist used: WL155

Date, time and analyst ID of latest file update: 20-Jul-2012 06:29 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721504

Digitally signed by Joseph M. Gambler
on 07/20/2012 at 06:33.
Target 3.5 esignature user ID: jmg00346

ASX73 0661

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0825.d
Injection date and time: 19-JUL-2012 12:49

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 20-JUL-2012 04:10

Sublist used: WL155

Date, time and analyst ID of latest file update: 20-Jul-2012 06:29 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721504

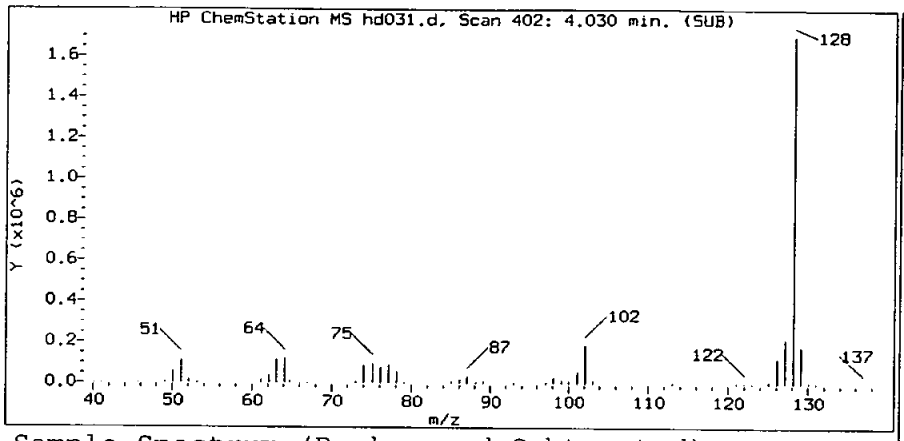
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.402	112	635356	99.829
15)$Phenol-d6	(1)	5.340	99	559143	62.031
21)*1,4-Dichlorobenzene-d4	(1)	5.667	152	75532	20.000
38)$Nitrobenzene-d5	(2)	6.209	82	690918	84.893
52)*Naphthalene-d8	(2)	6.896	136	295655	20.000
53) Naphthalene	(2)	6.920	128	2021M	0.120
78)$2-Fluorobiphenyl	(3)	7.963	172	995895	85.177
98)*Acenaphthene-d10	(3)	8.616	164	175257	20.000
119)$2,4,6-Tribromophenol	(3)	9.397	330	228393	203.903
135)*Phenanthrene-d10	(4)	10.073	188	315121	20.000
167)*Pyrene-d10	(5)	11.466	212	348934	20.000
156)$Terphenyl-d14	(5)	11.653	244	1128368	96.581
175)*Perylene-d12	(6)	14.130	264	213673	20.000

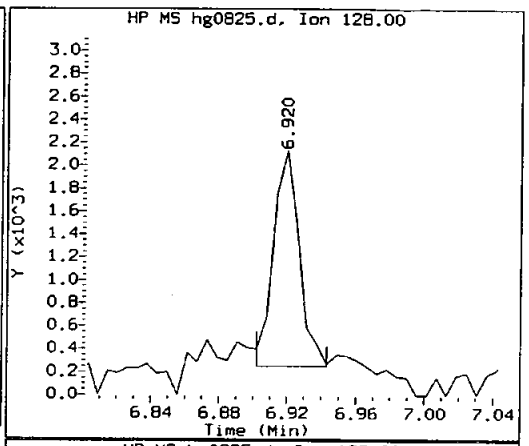
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/20/2012 at 06:33.
Target 3.5 esignature user ID: jmg00346

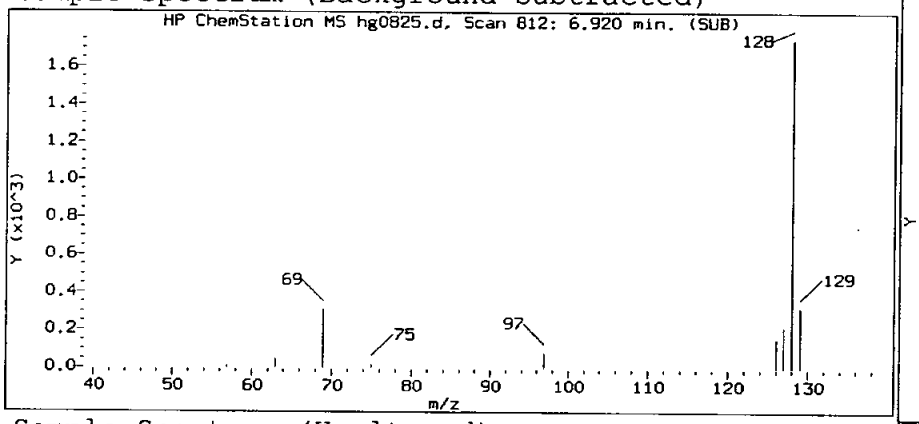
ASX73 0662

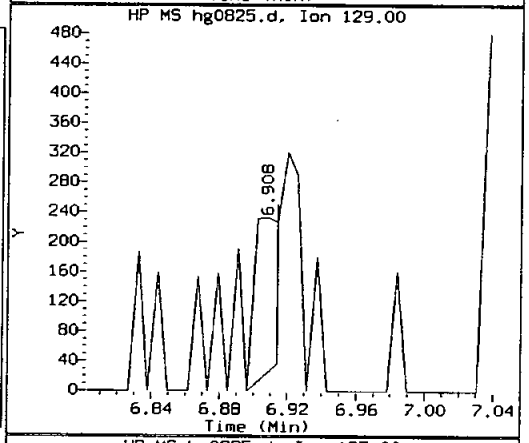
Reference Standard Spectrum for Naphthalene



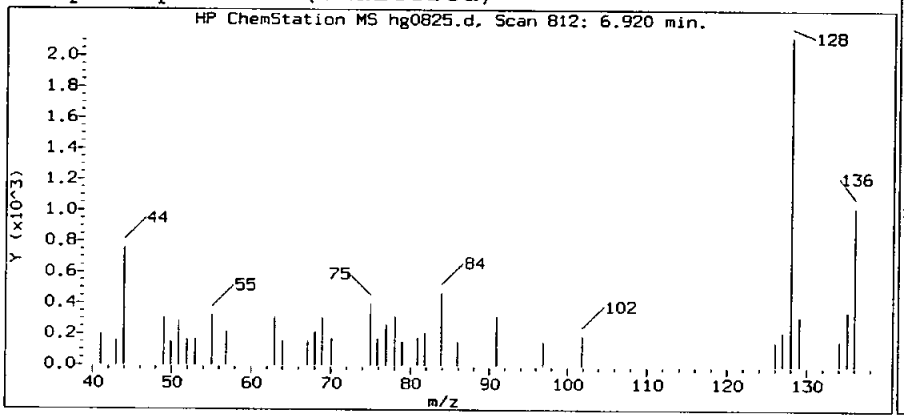


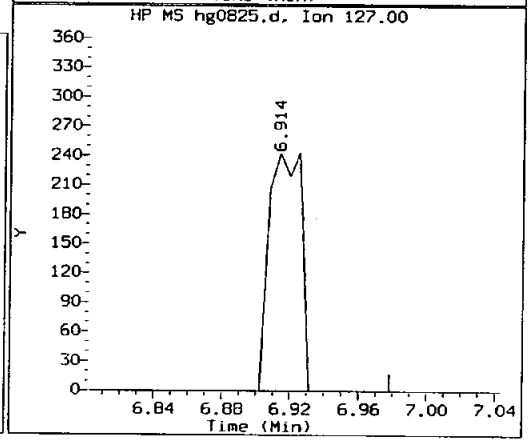
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP18831.i/12jul19.b/hg0825.d
Injection date and time: 19-JUL-2012 12:49

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 20-JUL-2012 04:10

Sublist used: WL155

Date, time and analyst ID of latest file update: 20-Jul-2012 06:29 jmg00346

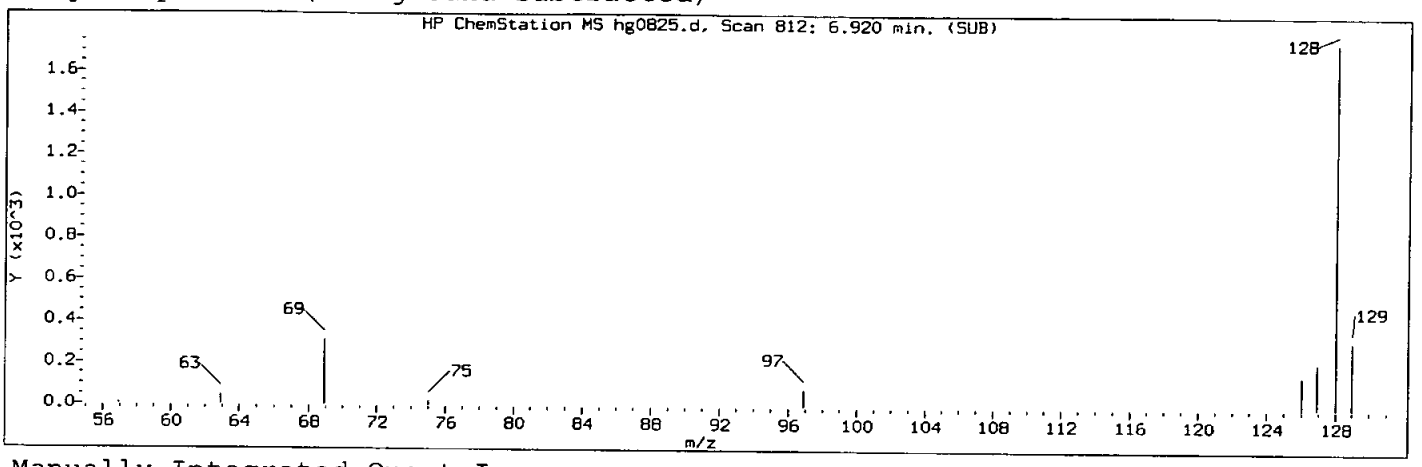
Sample Name: XXXXX

Lab Sample ID: 6721504

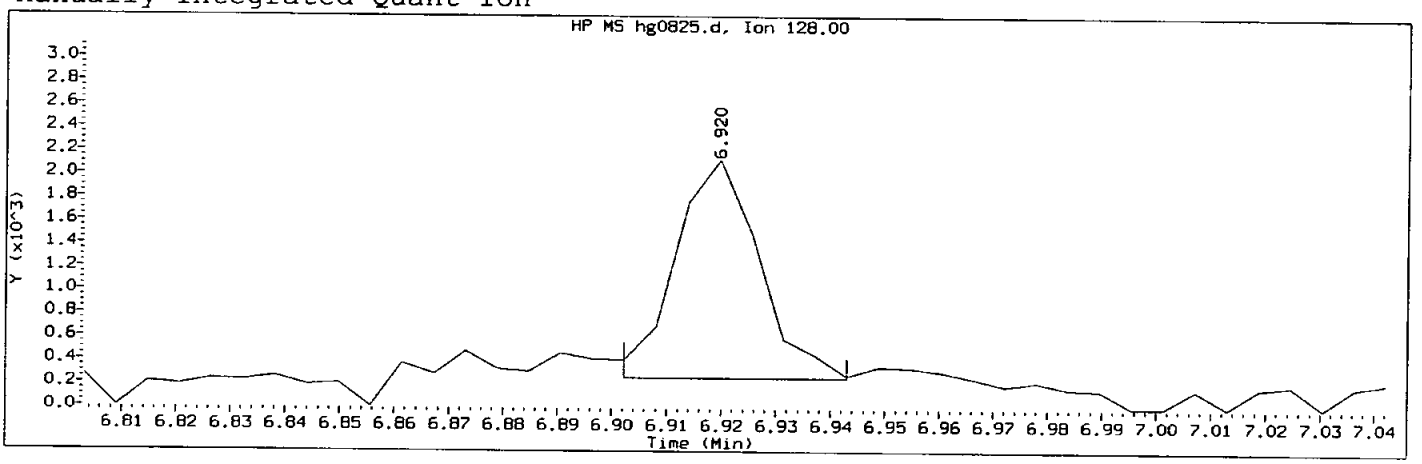
Compound Number	: 53
Compound Name	: Naphthalene
Scan Number	: 812
Retention Time (minutes)	: 6.920
Relative Retention Time	:-0.00084
Quant Ion	: 128.00
Area (flag)	: 2021M
On-column Amount (ng/ul)	: 0.1200

Digitally signed by Joseph M. Gambler on 07/20/2012 at 06:33.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul19.b/hg0825.d
Injection date and time: 19-JUL-2012 12:49

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 20-JUL-2012 04:10

Sublist used: WL155

Date, time and analyst ID of latest file update: 20-Jul-2012 06:29 jmg00346

Sample Name: XXXXX

Lab Sample ID: 6721504

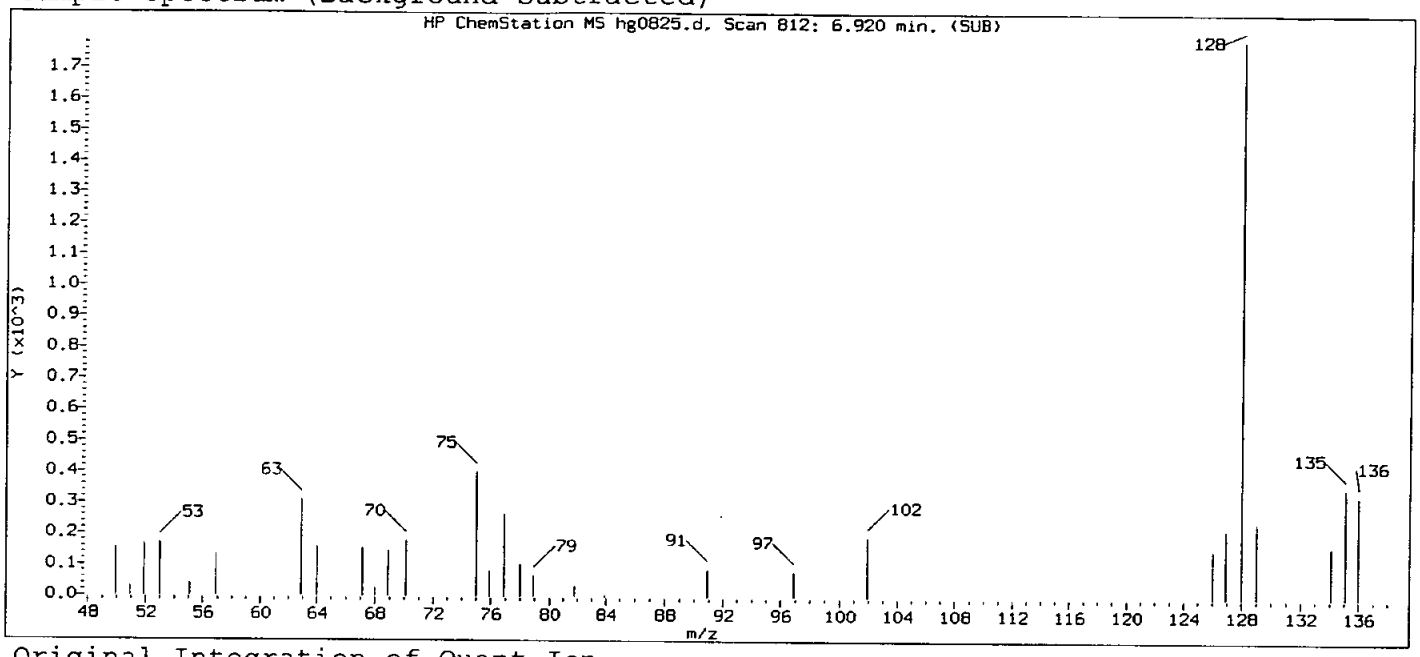
Compound Number	: 53		
Compound Name	: Naphthalene		
Scan Number	: 812		
Retention Time (minutes)	: 6.920		
Quant Ion	: 128.00		
Area (flag)	: 2021M		
On-column Amount (ng/ul)	: 0.1200		
Integration start scan	: 808	Integration stop scan:	815
Y at integration start	: 250	Y at integration end:	250

Reason for manual integration: improper integration

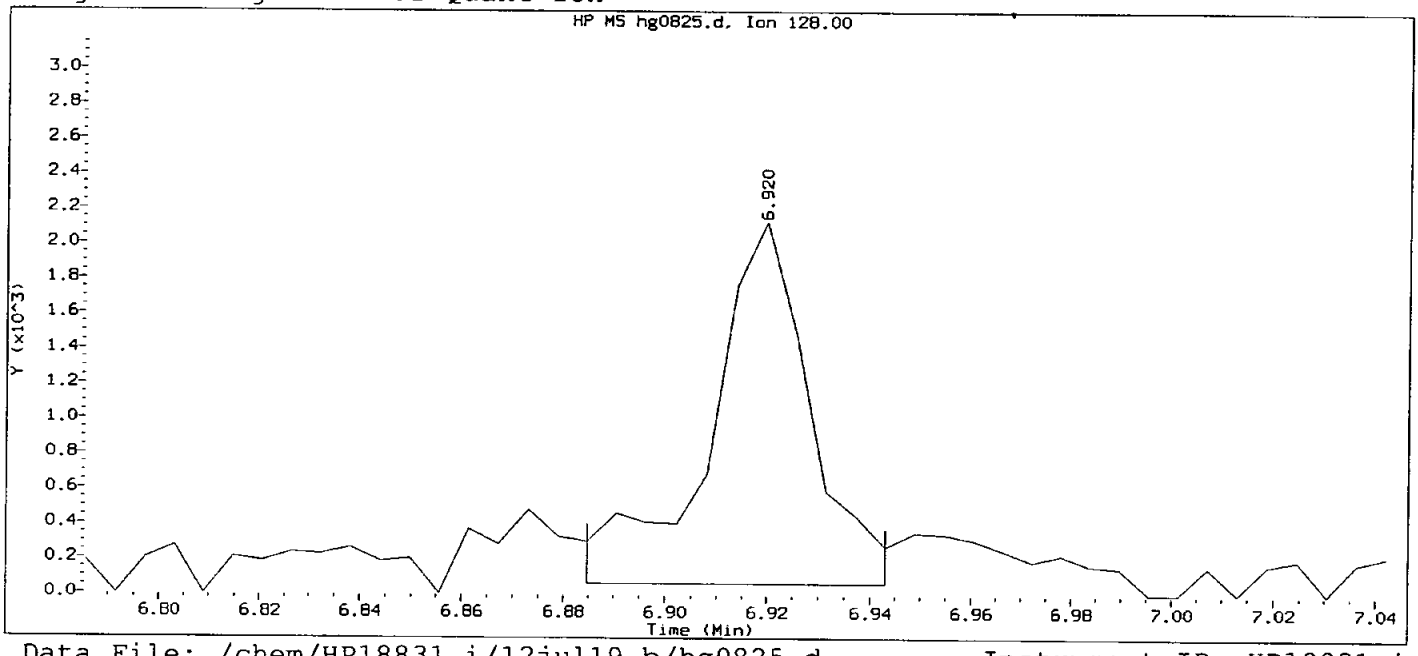
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/20/2012 at 06:33. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Matthew E. Barton on 07/20/2012 at 11:11. Parallax ID: reb00745

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul19.b/hg0825.d
Injection date and time: 19-JUL-2012 12:49

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 11:09

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 13:07 Automation

Sample Name: XXXXX

Lab Sample ID: 6721504

Compound Number	:	53
Compound Name	:	Naphthalene
Scan Number	:	812
Retention Time (minutes)	:	6.920
Quant Ion	:	128.00
Area	:	2818
On-column Amount (ng/ul)	:	0.1673
Integration start scan	:	805
Integration stop scan	:	815
Y at integration start	:	61
Y at integration end	:	61

Digitally signed by Joseph M. Gambler on 07/20/2012 at 06:33.
Target 3.5 esignature user ID: jmg00346

Standards Data

ASX73 0666

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP18831 **HP #08**

*** Shift #1 Analyst: BG *** Shift #2 Analyst: JMG

Comment Code:

R	=	Reinjection necessary	X	=	Sample sent to be reextracted
S	=	Surrogate problem	I	=	Internal Standard problem
NU	=	Not used	F	=	Further dilution required
MR	=	Meets requirements	IUO	=	Internal use only
Cz	=	Confirms z, (z = I or X)	T	=	Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\MSDCHEM\1\DATA\12jul17a\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	hg0580.D	DFTPP	8270DFTPP1432	17 Jul 2012	17:57			nu
2	hg0581.D	SSTD030	STD1982	17 Jul 2012	18:09			nu
1	hg0580z.D	DFTPP	8270DFTPP1432	17 Jul 2012	18:30			mr
2	hg0581a.D	SSTD030	STD1982	17 Jul 2012	18:44			mr
3	hg0582.D	SSTD0.5	STD1982	17 Jul 2012	19:14			mr
4	hg0583.D	SSTD120	STD1982	17 Jul 2012	19:37			mr
5	hg0584.D	SSTD080	STD1982	17 Jul 2012	20:00			mr
6	hg0585.D	SSTD050	STD1982	17 Jul 2012	20:23			mr
7	hg0586.D	SSTD015	STD1982	17 Jul 2012	20:46			mr
8	hg0587.D	SSTD005	STD1982	17 Jul 2012	21:09			mr
9	hg0588.D	SSTD001	STD1982	17 Jul 2012	21:32			mr
3	hg0589.D	SSTD0.5	MDLSTD1982	17 Jul 2012	21:55			mr
10	hg0590.D	SSTD0.1	MDLSTD1982	17 Jul 2012	22:18			mr
11	hg0591.D	SSTD050	8270ICV1092	17 Jul 2012	22:40			mr
12	hg0592.D	SSTD050	BASICV0662	17 Jul 2012	23:20			mr
51	hg0593.D	SBLKWC1998	SBLKWC199	17 Jul 2012	23:42	12199WAC		mr
52	hg0594.D	199WCLCS8	199WCLCS	18 Jul 2012	00:05	12199WAC		mr
53	hg0595.D	XXXXX	6715839	18 Jul 2012	00:28	12199WAC		mr
54	hg0596.D	XXXXXMS	6715839	18 Jul 2012	00:50	12199WAC		mr
55	hg0597.D	XXXXXMSD	6715839	18 Jul 2012	01:13	12199WAC		mr
56	hg0598.D	XXXXX	6716332	18 Jul 2012	01:35	12199WAC		mr
57	hg0599.D	XXXXXMS	6716332	18 Jul 2012	01:58	12199WAC		mr
58	hg0600.D	XXXXX	6717669	18 Jul 2012	02:20	12199WAC		mr
59	hg0601.D	XXXXXMS	6717669	18 Jul 2012	02:43	12199WAC		mr
60	hg0602.D	XXXXX	6720731	18 Jul 2012	03:05	12199WAC		mr
61	hg0603.D	XXXXX	6721059	18 Jul 2012	03:28	12199WAC		mr

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP18831 **HP #08**

*** Shift #1 Analyst: _____ *** Shift #2 Analyst: hb

Comment Code:

R	=	Reinjection necessary	X	=	Sample sent to be reextracted
S	=	Surrogate problem	I	=	Internal Standard problem
NU	=	Not used	F	=	Further dilution required
MR	=	Meets requirements	IUO	=	Internal use only
Cz	=	Confirms z, (z = I or X)	T	=	Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - C:\MSDCHEM\1\DATA\12jul18a\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	hg0740.D	DFTPP	8270DFTPP1982	18 Jul 2012	18:28			mr
2	hg0741.D	SSTD030	STD1982	18 Jul 2012	18:41			mr
3	hg0742.D	SSTD050	PDA1842	18 Jul 2012	19:08			mr
4	hg0743.D	SSTD120	PDA1842	18 Jul 2012	19:30			mr
5	hg0744.D	SSTD080	PDA1842	18 Jul 2012	19:53			mr
6	hg0745.D	SSTD030	PDA1842	18 Jul 2012	20:15			mr
7	hg0746.D	SSTD015	PDA1842	18 Jul 2012	20:38			mr
8	hg0747.D	SSTD005	PDA1842	18 Jul 2012	21:01			mr
9	hg0748.D	SSTD001	PDAMDL1842	18 Jul 2012	21:23			mr
11	hg0749.D	SBLKLC1968	SBLKLC196	18 Jul 2012	21:46	12196SLC		mr
12	hg0750.D	196LCLCS8	196LCLCS	18 Jul 2012	22:08	12196SLC		mr
21	hg0755.D	SBLKWF1988	SBLKWF198	18 Jul 2012	22:30	12198WAF		mr
22	hg0756.D	198WFLCS8	198WFLCS	18 Jul 2012	22:53	12198WAF		mr
23	hg0757.D	198WFLCSD8	198WFLCSD	18 Jul 2012	23:15	12198WAF		mr
31	hg0759.D	SBLKWB2008	SBLKWB200	18 Jul 2012	23:38	12200WAB		mr
32	hg0760.D	200WBLCS8	200WBLCS	19 Jul 2012	00:00	12200WAB		mr
33	hg0761.D	200WBLCSD8	200WBLCSD	19 Jul 2012	00:23	12200WAB		mr
41	hg0763.D	SBLKLH1998	SBLKLH199	19 Jul 2012	00:45	12199SLH		mr
42	hg0764.D	199LHLCS8	199LHLCS	19 Jul 2012	01:07	12199SLH		mr
24	hg0758.D	XXXXX	6718776	19 Jul 2012	01:30	12198WAF		mr
34	hg0762.D	XXXXX	6719598	19 Jul 2012	01:52	12200WAB		s,ok
13	hg0751.D	XXXXX	6716262	19 Jul 2012	02:15	12196SLC	5	mr
14	hg0752.D	XXXXXMS	6716262	19 Jul 2012	02:37	12196SLC	5	mr
15	hg0753.D	XXXXXMSD	6716262	19 Jul 2012	02:59	12196SLC	5	mr
16	hg0754.D	XXXXX	6716263	19 Jul 2012	03:22	12196SLC		s,x
43	hg0765.D	XXXXX	6721497	19 Jul 2012	03:44	12199SLH	5	mr
44	hg0766.D	XXXXXMS	6721497	19 Jul 2012	04:07	12199SLH	5	mr
45	hg0767.D	XXXXXMSD	6721497	19 Jul 2012	04:29	12199SLH	5	mr
46	hg0768.D	XXXXX	6721503	19 Jul 2012	04:52	12199SLH		mr
2	hg0769.D	SSTD030	STD1982	19 Jul 2012	05:14			mr

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Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP18831 **HP #08**

*** Shift #1 Analyst: _____ *** Shift #2 Analyst: _____

Comment Code:

R	=	Reinjection necessary	X	=	Sample sent to be reextracted
S	=	Surrogate problem	I	=	Internal Standard problem
NU	=	Not used	F	=	Further dilution required
MR	=	Meets requirements	IUO	=	Internal use only
Cz	=	Confirms z, (z = I or X)	T	=	Injected outside valid tune period

Other problems or comments are as follows:

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Data Directory Path is - C:\MSDCHEM\1\DATA\12jul19\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	hg0810.D	DFTPP	8270DFTPP1982	19 Jul 2012	06:31			mr
2	hg0811.D	SSTD030	STD1982	19 Jul 2012	06:46			mr
11	hg0812.D	SBLKWC2008	SBLKWC200	19 Jul 2012	07:10	12200WAC		mr
12	hg0813.D	200WCLCS8	200WCLCS	19 Jul 2012	07:33	12200WAC		mr
13	hg0814.D	200WCLCSD8	200WCLCSD	19 Jul 2012	07:55	12200WAC		mr
41	hg0835.D	SBLKWF2008	SBLKWF200	19 Jul 2012	08:18	12200WAF		mr
42	hg0836.D	200WFLCS8	200WFLCS	19 Jul 2012	08:40	12200WAF		mr
14	hg0815.D	XXXXX	6720421	19 Jul 2012	09:03	12200WAC		mr
15	hg0816.D	XXXXX	6720422	19 Jul 2012	09:25	12200WAC		mr
16	hg0817.D	XXXXX	6720423	19 Jul 2012	09:48	12200WAC		mr
17	hg0818.D	XXXXX	6720424	19 Jul 2012	10:10	12200WAC		mr
18	hg0819.D	XXXXX	6720425	19 Jul 2012	10:33	12200WAC		mr
19	hg0820.D	XXXXX	6720426	19 Jul 2012	10:56	12200WAC		mr
20	hg0821.D	XXXXX	6720427	19 Jul 2012	11:18	12200WAC		mr
21	hg0822.D	XXXXX	6720428	19 Jul 2012	11:41	12200WAC		mr
22	hg0823.D	XXXXX	6720430	19 Jul 2012	12:04	12200WAC		s,x
23	hg0824.D	XXXXX	6720431	19 Jul 2012	12:27	12200WAC		mr
24	hg0825.D	XXXXX	6721504	19 Jul 2012	12:49	12200WAC		mr
25	hg0826.D	XXXXX	6722557	19 Jul 2012	13:12	12200WAC		mr
26	hg0827.D	XXXXX	6722951	19 Jul 2012	13:35	12200WAC		mr
27	hg0828.D	XXXXX	6722953	19 Jul 2012	13:58	12200WAC		mr
28	hg0829.D	XXXXX	6722955	19 Jul 2012	14:21	12200WAC		mr
29	hg0830.D	XXXXX	6722957	19 Jul 2012	14:43	12200WAC		mr
30	hg0831.D	XXXXX	6722959	19 Jul 2012	15:06	12200WAC		mr
31	hg0832.D	XXXXX	6722961	19 Jul 2012	15:29	12200WAC		mr
32	hg0833.D	XXXXX	6722963	19 Jul 2012	15:52	12200WAC		mr
33	hg0834.D	XXXXX	6722965	19 Jul 2012	16:15	12200WAC		mr
43	hg0837.D	XXXXX	6716334	19 Jul 2012	16:38	12200WAF		mr
44	hg0838.D	XXXXXMS	6716334	19 Jul 2012	17:01	12200WAF		mr
45	hg0839.D	XXXXXMSD	6716334	19 Jul 2012	17:23	12200WAF		mr
2	hg0811a.D	SSTD030	STD1982	19 Jul 2012	17:46			mr
3	hg0840A.D	blank	J2-1	19 Jul 2012	18:09			iuo
4	hg0841A.D	LCS	J2-1	19 Jul 2012	18:32			iuo
5	hg0842A.D	CONTROL	CONTROL	19 Jul 2012	18:54			iuo

Data File: /chem/HP18831.i/12jul17a.b/hg0580z.d

Date : 17-JUL-2012 18:30

Client ID: DFTPP

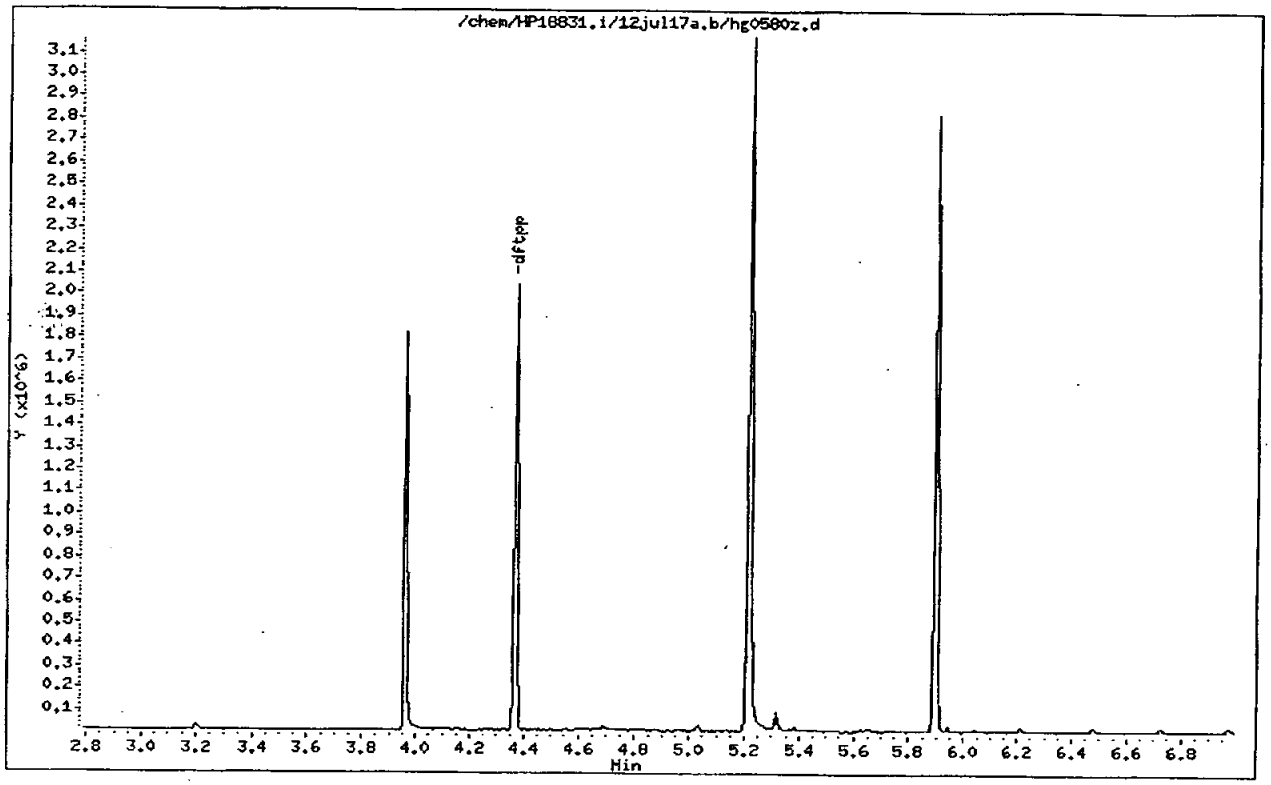
Instrument: HP18831.i

Sample Info: DFTPP;8270DFTPP1432;

Operator: hb01996

Column phase: DB-5MS

Column diameter: 0.18



Digitally signed by Holly Berry on 07/17/2012 at 22:12.
Target 3.5 esignature user ID: hb01996

Data File: /chem/HP18831.i/12jul17a.b/hg0580z.d

Date : 17-JUL-2012 18:30

Client ID: DFTPP

Instrument: HP18831.i

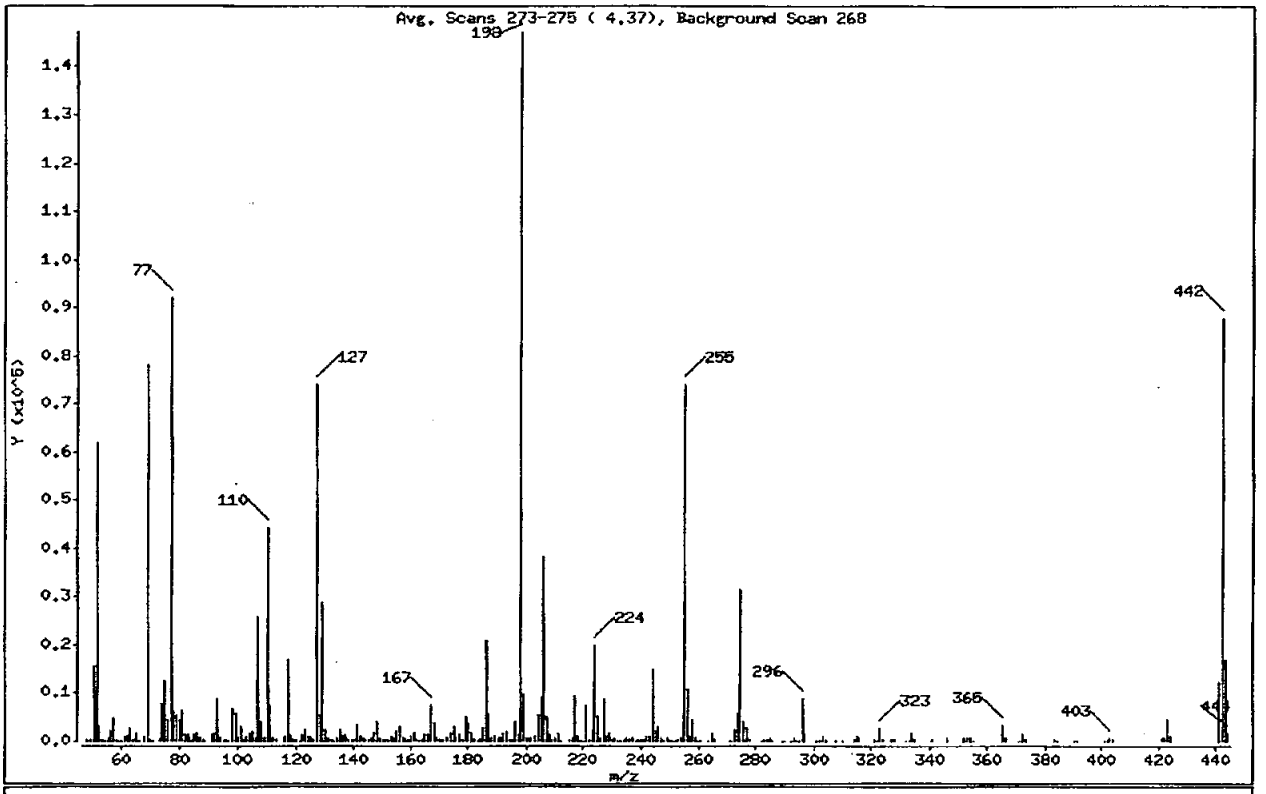
Sample Info: DFTPP;8270DFTPP1432;

Operator: hb01996

Column phase: DB-5MS

Column diameter: 0.18

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	42.12
68	Less than 2.00% of mass 69	0.78 (1.48)
69	Mass 69 relative abundance	53.20
70	Less than 2.00% of mass 69	0.29 (0.54)
127	40.00 - 60.00% of mass 198	50.27
197	Less than 1.00% of mass 198	0.83
199	5.00 - 9.00% of mass 198	6.75
275	10.00 - 30.00% of mass 198	21.35
365	Greater than 1.00% of mass 198	2.27
441	Present, but less than mass 443	8.38
442	40.00 - 99.99% of mass 198	59.82
443	17.00 - 23.00% of mass 442	11.53 (19.27)

Digitally signed by Holly Berry on 07/17/2012 at 22:12.
Target 3.5 esignature user ID: hb01996

Data File: /chem/HP18831.i/12jul17a.b/hg0580z.d

Date : 17-JUL-2012 18:30

Client ID: DFTPP

Instrument: HP18831.i

Sample Info: DFTPP;8270DFTPP1432;

Operator: hb01996

Column phase: DB-5MS

Column diameter: 0.18

Data File: hg0580z.d
Spectrum: Avg. Scans 273-275 (4.37), Background Scan 268
Location of Maximum: 198.00
Number of points: 277

m/z	Y	m/z	Y	m/z	Y	m/z	Y
47.00	4	122.00	1271	192.00	1698	271.00	116
48.00	186	123.00	2392	193.00	1925	272.00	138
49.00	465	124.00	1057	194.00	381	273.00	2284
50.00	15431	125.00	990	195.00	235	274.00	5785
51.00	62032	126.00	491	196.00	3938	275.00	31448
52.00	3201	127.00	74040	197.00	1228	276.00	4167
53.00	303	128.00	5478	198.00	147264	277.00	2685
54.00	51	129.00	28856	199.00	9941	278.00	491
55.00	546	130.00	2274	200.00	833	282.00	50
56.00	1942	131.00	544	201.00	762	283.00	384
57.00	4609	132.00	280	203.00	1004	284.00	236
58.00	286	133.00	165	204.00	5252	285.00	549
59.00	111	134.00	822	205.00	9186	286.00	50
60.00	76	135.00	2261	206.00	38280	289.00	91
61.00	927	136.00	900	207.00	4919	290.00	70
62.00	866	137.00	1244	208.00	1324	292.00	59
63.00	2671	138.00	221	209.00	435	293.00	557
64.00	362	139.00	201	210.00	544	294.00	143
65.00	1707	140.00	368	211.00	1567	295.00	85
66.00	159	141.00	3447	212.00	114	296.00	8944
68.00	1156	142.00	1087	215.00	430	297.00	1186
69.00	78360	143.00	726	216.00	793	301.00	63
70.00	427	144.00	261	217.00	9566	302.00	62
71.00	52	145.00	237	218.00	1147	303.00	1078
73.00	204	146.00	598	219.00	112	304.00	231
74.00	7906	147.00	1756	220.00	57	308.00	88
75.00	12573	148.00	4075	221.00	7290	310.00	66
76.00	4470	149.00	767	222.00	469	314.00	363
77.00	92248	150.00	249	223.00	2065	315.00	970
78.00	6301	151.00	500	224.00	19976	316.00	566
79.00	5505	152.00	357	225.00	5103	321.00	210
80.00	4320	153.00	1181	226.00	540	322.00	58
81.00	6349	154.00	833	227.00	8694	323.00	2599
82.00	1499	155.00	2123	228.00	1121	324.00	496
83.00	1309	156.00	2955	229.00	1839	327.00	452

Digitally signed by Holly Berry on 07/17/2012 at 22:12.
Target 3.5 esignature user ID: hb01996

Data File: /chem/HP18831.i/12jul17a.b/hg0580z.d

Date : 17-JUL-2012 18:30

Client ID: DFTPP

Instrument: HP18831.i

Sample Info: DFTPP;8270DFTPP1432;

Operator: hb01996

Column phase: DB-5MS

Column diameter: 0.18

Data File: hg0580z.d

Spectrum: Avg. Scans 273-275 (4.37), Background Scan 268

Location of Maximum: 198.00

Number of points: 277

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	131	157.00	674	230.00	218	328.00	246
85.00	1276	158.00	550	231.00	667	332.00	83
86.00	1806	159.00	417	232.00	124	333.00	83
87.00	677	160.00	1147	233.00	113	334.00	1789
88.00	382	161.00	1656	234.00	436	335.00	395
89.00	164	162.00	414	235.00	655	341.00	356
91.00	1340	163.00	156	236.00	448	346.00	545
92.00	1592	164.00	210	237.00	640	352.00	790
93.00	8881	165.00	1410	238.00	50	353.00	629
94.00	721	166.00	1241	239.00	398	354.00	814
95.00	134	167.00	7387	240.00	205	355.00	98
96.00	429	168.00	3851	241.00	382	365.00	3343
97.00	119	169.00	579	242.00	1065	366.00	520
98.00	6785	170.00	192	243.00	956	371.00	66
99.00	6612	171.00	344	244.00	14879	372.00	1299
100.00	643	172.00	628	245.00	1986	373.00	325
101.00	3195	173.00	712	246.00	2959	383.00	359
102.00	203	174.00	1655	247.00	595	384.00	85
103.00	1109	175.00	2947	248.00	64	390.00	108
104.00	1852	176.00	827	249.00	547	391.00	51
105.00	2085	177.00	1251	250.00	82	401.00	50
106.00	640	178.00	426	251.00	123	402.00	466
107.00	25576	179.00	5048	252.00	86	403.00	773
108.00	4162	180.00	3746	253.00	350	404.00	229
109.00	731	181.00	1653	254.00	615	421.00	550
110.00	44448	182.00	251	255.00	74136	422.00	579
111.00	7380	183.00	66	256.00	10924	423.00	4425
112.00	838	184.00	425	257.00	894	424.00	927
113.00	274	185.00	2751	258.00	4288	441.00	12347
116.00	1152	186.00	20928	259.00	647	442.00	88104
117.00	17024	187.00	5905	260.00	137	443.00	16976
118.00	1420	188.00	585	261.00	164	444.00	1639
119.00	325	189.00	1165	264.00	127		
120.00	313	190.00	192	265.00	1824		
121.00	54	191.00	623	266.00	362		

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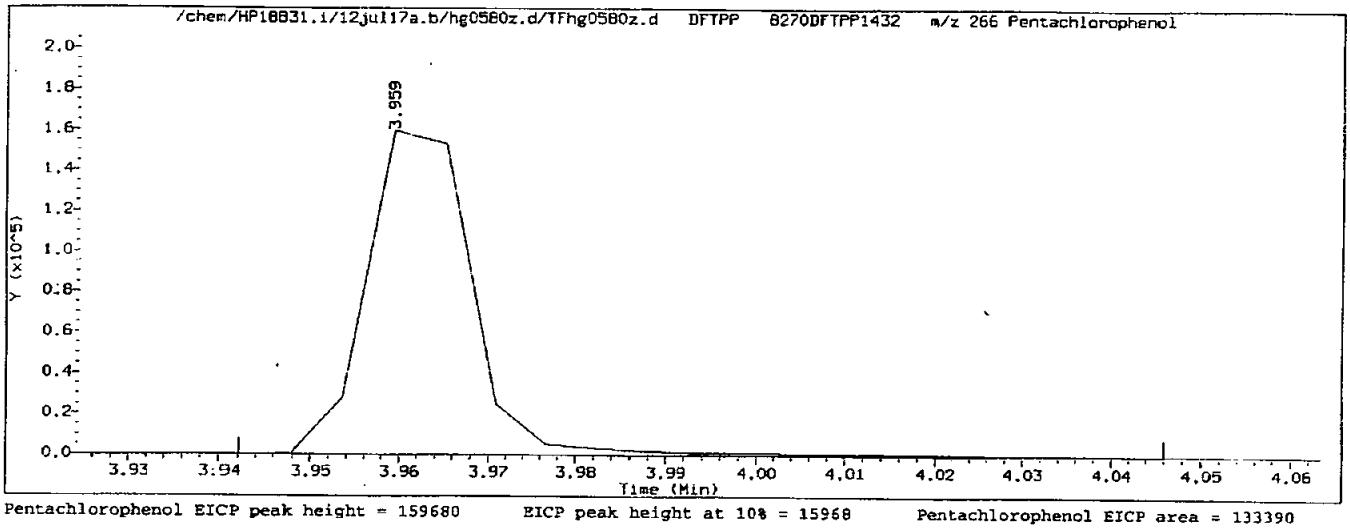
Target 3.5 esignature user ID: hb01996

Assessment of GC Column Performance and Injection Port Inertness for

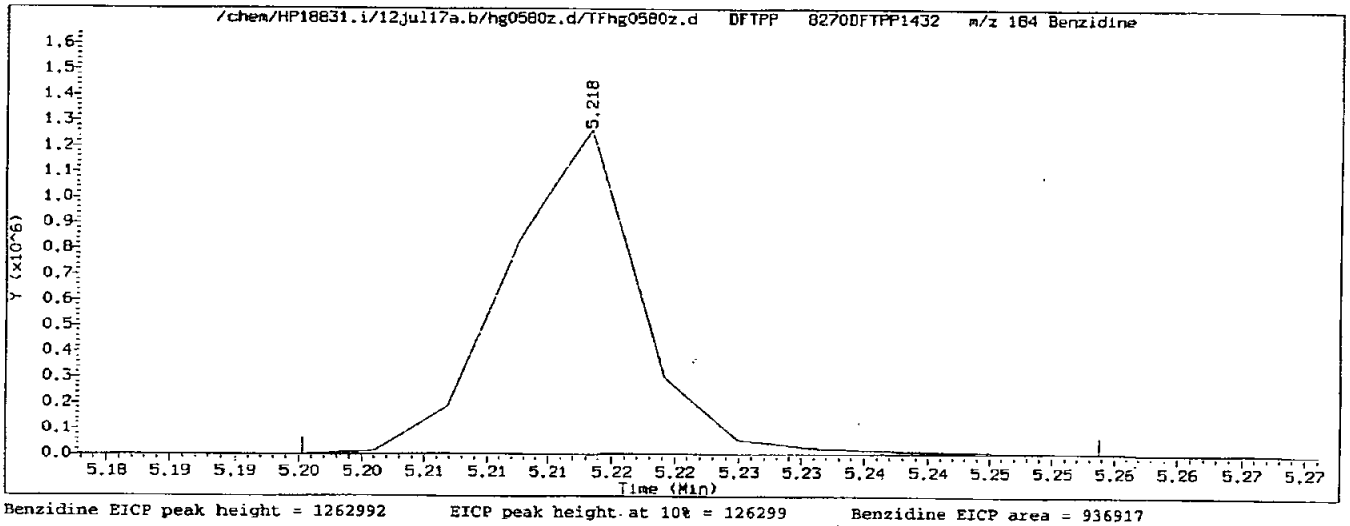
Instrument ID: HP18831.i Injection Date: 17-JUL-2012 18:30 Operator: hb01996



Pentachlorophenol EICP peak height = 159680 EICP peak height at 10% = 15968 Pentachlorophenol EICP area = 133390

Pentachlorophenol EICP peak apex (min.) = 3.959
RT at 10% of front half of EICP (min.) = 3.951 'Front' peak width (min.) = 0.0082666667
RT at 10% of back half of EICP (min.) = 3.974 'Tailing' peak width (min.) = 0.0142000000

PCP tailing factor $= \frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0142000000}{0.0082666667} = 1.718$



Benzidine EICP peak height = 1262992 EICP peak height at 10% = 126299 Benzidine EICP area = 936917

Benzidine EICP peak apex (min.) = 5.218
RT at 10% of front half of EICP (min.) = 5.205 'Front' peak width (min.) = 0.0135000000
RT at 10% of back half of EICP (min.) = 5.228 'Tailing' peak width (min.) = 0.0098666667

Benzidine tailing factor $= \frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0098666667}{0.0135000000} = 0.731$

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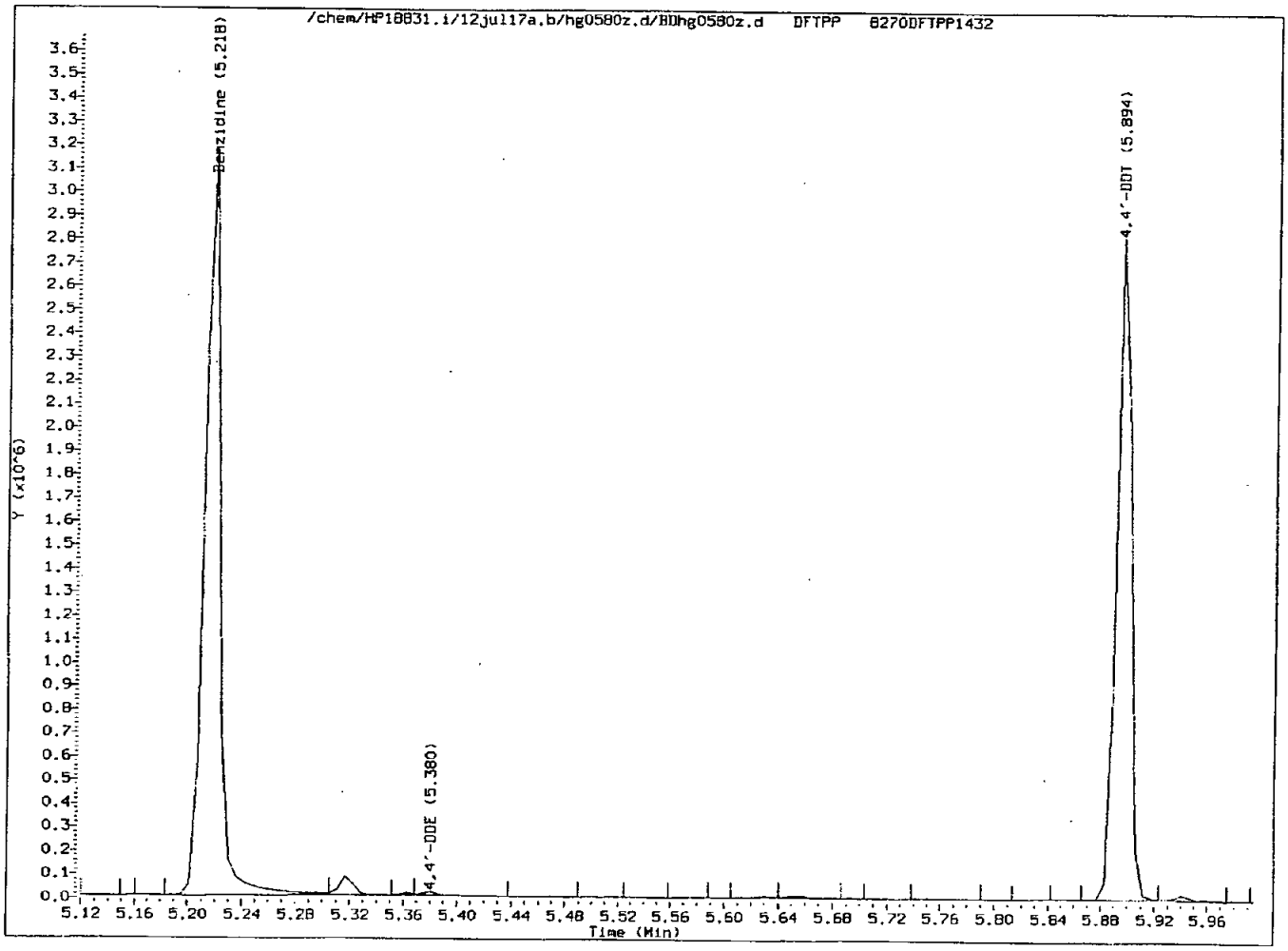
Target 3.5 esignature user ID: hb01996

ASX73 9674

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP18831.i Injection Date: 17-JUL-2012 18:30 Operator: hb01996



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{14322 + 0}{14322 + 0 + 2075659} \times 100 = 0.7$$

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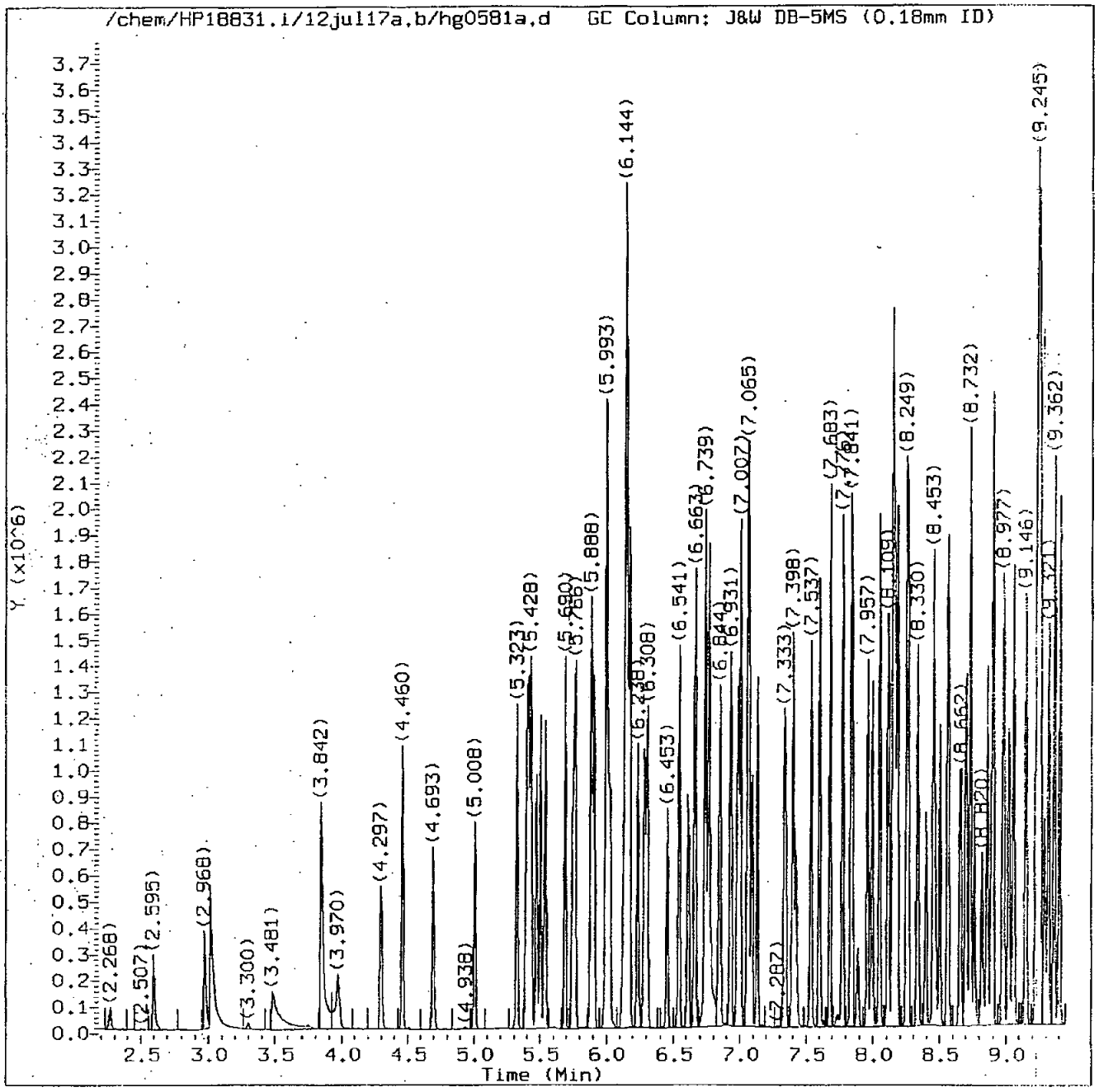
Target 3.5 esignature user ID: hb01996



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0581a.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 18:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:16
Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1982

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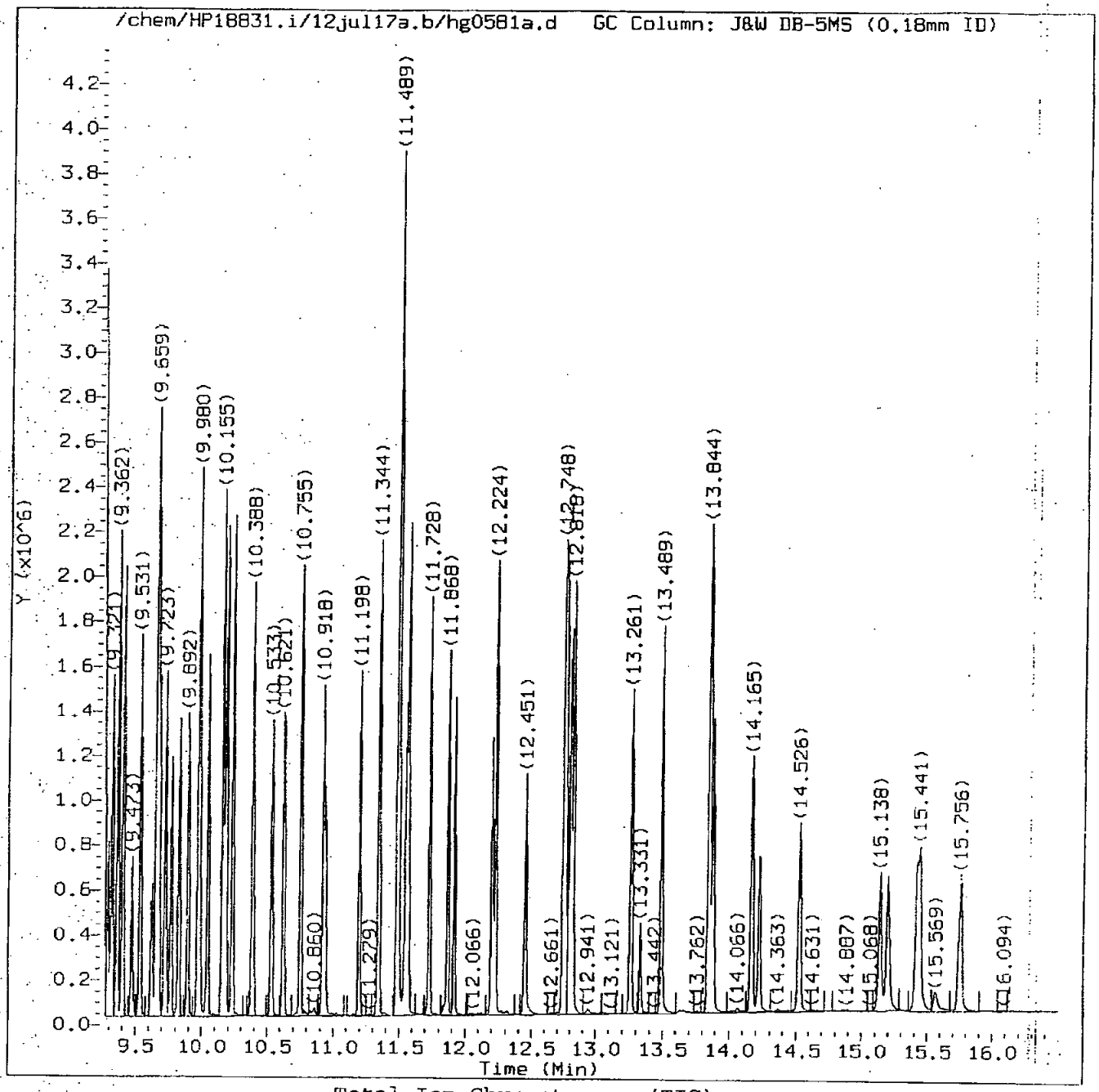
on 07/18/2012 at 04:19
Target 3.5 esignature user ID: jmg00346

ASX73 0636



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0581a.d
Injection date and time: 17-JUL-2012 18:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:16

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

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on 07/18/2012 at 04:19.
Target 3.5 esignature user ID: jmg00346

ASX73 0677

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0581a.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 18:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:16
Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.595	88	138978	28.661
2) N-Nitrosodimethylamine	(1)	2.968	74	223911	28.053
3) Pyridine	(1)	3.014	79	375669	28.228
5) 2-Picoline	(1)	3.842	93	396999	28.911
6) N-Nitrosomethylethylamine	(1)	3.970	88	183003	29.054
7) Methyl methanesulfonate	(1)	4.297	80	207433	28.866
9)$2-Fluorophenol	(1)	4.460	112	304489	29.009
10) N-Nitrosodiethylamine	(1)	4.693	102	176886	29.443
11) Ethyl methanesulfonate	(1)	5.008	109	165643	28.894
12) Benzaldehyde	(1)	5.323	77	276744	27.392
14)$Phenol-d5	(1)	5.398	99	436223	29.344
15)$Phenol-d6	(1)	5.398	99	436223	29.344
16) Phenol	(1)	5.410	94	526705	29.964
13) Aniline	(1)	5.428	93	605301	29.960
18) bis(2-Chloroethyl)ether	(1)	5.503	93	383016	29.278
19) 2-Chlorophenol	(1)	5.538	128	286537	29.432
20) 1,3-Dichlorobenzene	(1)	5.690	146	288163	29.342
21)*1,4-Dichlorobenzene-d4	(1)	5.748	152	124569	20.000
22) 1,4-Dichlorobenzene	(1)	5.766	146	294409	29.361
24) Benzyl alcohol	(1)	5.888	108	252541	29.907
25) 1,2-Dichlorobenzene	(1)	5.905	146	277112	29.692
206) Indene	(1)	5.993	115	517357	29.271
26) 2-Methylphenol	(1)	6.005	108	332827	29.647
28) bis(2-Chloroisopropyl)ether	(1)	6.028	45	446315	29.134
27) 2,2'-oxybis(1-Chloropropane)	(1)	6.028	45	446315	29.134
29) N-Nitrosopyrrolidine	(1)	6.127	100	182617	29.935
30) Acetophenone	(1)	6.144	105	503134	29.415
33) 4-Methylphenol	(1)	6.150	108	347275	28.557
31) N-Nitroso-di-n-propylamine	(1)	6.156	70	305431	29.569
32) N-Nitrosomorpholine	(1)	6.168	56	211718	29.066
34) o-Toluidine	(1)	6.179	106	536653	29.712
37) Hexachloroethane	(1)	6.238	117	129701	29.251
38)$Nitrobenzene-d5	(2)	6.284	82	414671	29.557
39) Nitrobenzene	(2)	6.308	77	433218	29.661
40) N-Nitrosopiperidine	(2)	6.453	114	163856	29.554
41) Isophorone	(2)	6.541	82	805474	29.370
42) 2-Nitrophenol	(2)	6.611	139	155977	30.229
44) 2,4-Dimethylphenol	(2)	6.663	107	363845	29.991
45) O,O,O-triethylphosphorothioate	(2)	6.739	198	141647	29.603
46) bis(2-Chloroethoxy)methane	(2)	6.762	93	479547	29.045

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:19.
Target 3.5 esignature user ID: jmg00346

ASX73 0678

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0581a.d
Injection date and time: 17-JUL-2012 18:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:16

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
47) Benzoic acid	(2)	6.780	105	343818	36.758
49) 2,4-Dichlorophenol	(2)	6.844	162	231730	29.782
50) 1,2,4-Trichlorobenzene	(2)	6.931	180	252043	29.310
52) *Naphthalene-d8	(2)	6.984	136	509655	20.000
53) Naphthalene	(2)	7.007	128	853255	29.385
56) 4-Chloroaniline	(2)	7.060	127	351767	29.821
57) 2,6-Dichlorophenol	(2)	7.065	162	222218	29.703
58) Hexachloropropene	(2)	7.094	213	151579	30.001
60) Hexachlorobutadiene	(2)	7.129	225	129679	29.140
194) Quinoline	(2)	7.333	129	553755	29.222
64) N-Nitrosodi-n-butylamine	(2)	7.398	84	354912	34.941
63) Caprolactam	(2)	7.421	113	120085	29.214
68) 4-Chloro-3-methylphenol	(2)	7.537	107	314357	29.482
69) Safrole	(2)	7.602	162	221263	29.814
70) 2-Methylnaphthalene	(2)	7.683	142	528395	29.798
71) 1-Methylnaphthalene	(2)	7.776	142	514546	29.663
72) Hexachlorocyclopentadiene	(3)	7.841	237	112719	30.930
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.846	216	231548	29.368
74) cis-Isosafrole	(3)	7.887	162	41213	3.329
75) 2,4,6-Trichlorophenol	(3)	7.957	196	162745	29.608
77) 2,4,5-Trichlorophenol	(3)	7.992	196	177539	29.230
78) $2-Fluorobiphenyl	(3)	8.045	172	584861	29.647
79) trans-Isosafrole	(3)	8.109	162	225541	26.268
80) Isosafrole	(3)	8.109	162	225541	29.515
83) 1,1'-Biphenyl	(3)	8.144	154	706475	30.108
84) 2-Chloronaphthalene	(3)	8.161	162	466566	27.366
85) 1-Chloronaphthalene	(3)	8.179	162	522205	30.831
88) Diphenyl ether	(3)	8.249	170	360047	28.825
89) 2-Nitroaniline	(3)	8.260	138	179948	30.562
90) 1,4-Naphthoquinone	(3)	8.330	158	215260	29.905
91) 1,4-Dinitrobenzene	(3)	8.394	168	94850	29.516
92) Dimethylphthalate	(3)	8.453	163	587286	29.402
93) 1,3-Dinitrobenzene	(3)	8.470	168	108894	28.845
94) 2,6-Dinitrotoluene	(3)	8.505	165	134772	29.838
95) Acenaphthylene	(3)	8.563	152	775691	29.974
97) 3-Nitroaniline	(3)	8.662	138	154949	30.029
98) *Acenaphthene-d10	(3)	8.703	164	295701	20.000
99) Acenaphthene	(3)	8.732	153	515265	29.078
100) 2,4-Dinitrophenol	(3)	8.761	184	101178	36.766
103) 4-Nitrophenol	(3)	8.820	109	95454	26.735

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:19
Target 3.5 esignature user ID: jmg00346

ASX73 0679

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0581a.d
Injection date and time: 17-JUL-2012 18:44

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:16

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.861	250	179943	28.363
105) 2,4-Dinitrotoluene	(3)	8.896	165	170151	29.256
104) Dibenzofuran	(3)	8.901	168	734444	29.219
106) 1-Naphthylamine	(3)	8.977	143	537550	29.769
107) 2,3,4,6-Tetrachlorophenol	(3)	9.024	232	129718	29.922
108) 2-Naphthylamine	(3)	9.059	143	532097	29.850
109) Diethylphthalate	(3)	9.146	149	597624	28.922
110) Thionazin	(3)	9.228	107	116686	27.483
111) Fluorene	(3)	9.239	166	591910	29.461
112) 4-Chlorophenyl-phenylether	(3)	9.245	204	279959	28.886
113) 5-Nitro-o-toluidine	(3)	9.257	152	170530	29.607
114) 4-Nitroaniline	(3)	9.263	138	155542	29.902
115) 4,6-Dinitro-2-methylphenol	(4)	9.292	198	98612	29.009
117) N-Nitrosodiphenylamine	(4)	9.362	169	502716	29.981
202) NDPA as diphenylamine	(4)	9.362	169	502716	29.712
118) 1,2-Diphenylhydrazine	(4)	9.403	77	881117	30.174
119)$2,4,6-Tribromophenol	(3)	9.473	330	53692	28.410
120) Tetraethyldithiopyrophosphate	(4)	9.531	97	123183	30.087
121) 1,3,5-Trinitrobenzene	(4)	9.624	213	60571	28.665
122) Diallate (peak 1)	(4)	9.653	86	307478	22.720
123) Phorate	(4)	9.659	75	530476	30.969
124) Phenacetin	(4)	9.677	108	357930	30.323
125) 4-Bromophenyl-phenylether	(4)	9.723	248	138119	28.903
126) Diallate (peak 2)	(4)	9.735	86	62477	7.539
127) Hexachlorobenzene	(4)	9.776	284	132562	28.299
128) Dimethoate	(4)	9.822	87	293808	30.659
130) Atrazine	(4)	9.892	200	127919	28.482
131) Pentachlorophenol	(4)	9.968	266	88152	29.283
132) Pentachloronitrobenzene	(4)	9.980	237	63088	29.355
133) 4-Aminobiphenyl	(4)	9.980	169	495011	31.384
134) Pronamide	(4)	10.044	173	253107	30.838
135)*Phenanthrene-d10	(4)	10.155	188	474260	20.000
136) Dinoseb	(4)	10.155	211	137218	28.413
137) Phenanthrene	(4)	10.178	178	792904	29.018
138) Anthracene	(4)	10.230	178	810814	30.029
140) Carbazole	(4)	10.388	167	765962	29.753
141) Methyl parathion	(4)	10.533	109	217820	31.570
142) Di-n-butylphthalate	(4)	10.755	149	973713	29.745
143) Parathion	(4)	10.918	109	133678	30.349
144) 4-Nitroquinoline-1-oxide	(4)	10.936	190	73246	30.215

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:19.
Target 3.5 esignature user ID: jmg00346

ASX73 9688

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0581a.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 18:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:16
Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.198	193	94714	30.099
147) Fluoranthene	(4)	11.344	202	799869	29.512
152) Benzidine	(5)	11.489	184	1622365	95.235
167) *Pyrene-d10	(5)	11.548	212	507050	20.000
154) Pyrene	(5)	11.565	202	845869	29.067
156) $Terphenyl-d14	(5)	11.728	244	501784	29.556
158) p-Dimethylaminoazobenzene	(5)	11.868	225	162590	31.576
159) Chlorobenzilate	(5)	11.915	139	258599	31.348
160) 3,3'-Dimethylbenzidine	(5)	12.200	212	465661M	30.980
161) Butylbenzylphthalate	(5)	12.224	149	376520	29.818
162) 2-Acetylaminofluorene	(5)	12.451	181	278299	30.388
164) 3,3'-Dichlorobenzidine	(5)	12.742	252	230172	30.427
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.748	231	120250	31.345
166) Benzo(a)anthracene	(5)	12.760	228	652408	30.547
168) Chrysene	(5)	12.801	228	640014	29.731
169) bis(2-Ethylhexyl)phthalate	(5)	12.824	149	491297	30.443
189) 6-Methylchrysene	(5)	13.261	242	419206	29.342
170) Di-n-octylphthalate	(6)	13.489	149	793047	30.965
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.844	256	247220	30.256
172) Benzo(b)fluoranthene	(6)	13.850	252	527872	29.207
173) Benzo(k)fluoranthene	(6)	13.879	252	556511	31.109
174) Benzo(a)pyrene	(6)	14.165	252	500496	30.881
175) *Perylene-d12	(6)	14.223	264	285632	20.000
176) 3-Methylcholanthrene	(6)	14.526	268	245318	30.911
190) Dibenz(a,h)acridine	(6)	15.138	279	344232	30.075
191) Dibenz(a,j)acridine	(6)	15.196	279	368747	29.757
177) Indeno(1,2,3-cd)pyrene	(6)	15.418	276	482909	30.826
178) Dibenz(a,h)anthracene	(6)	15.441	278	408719	31.759
179) Benzo(g,h,i)perylene	(6)	15.756	276	407612	30.815
129) Diallate TRANS/CIS	(4)			369955	30.270

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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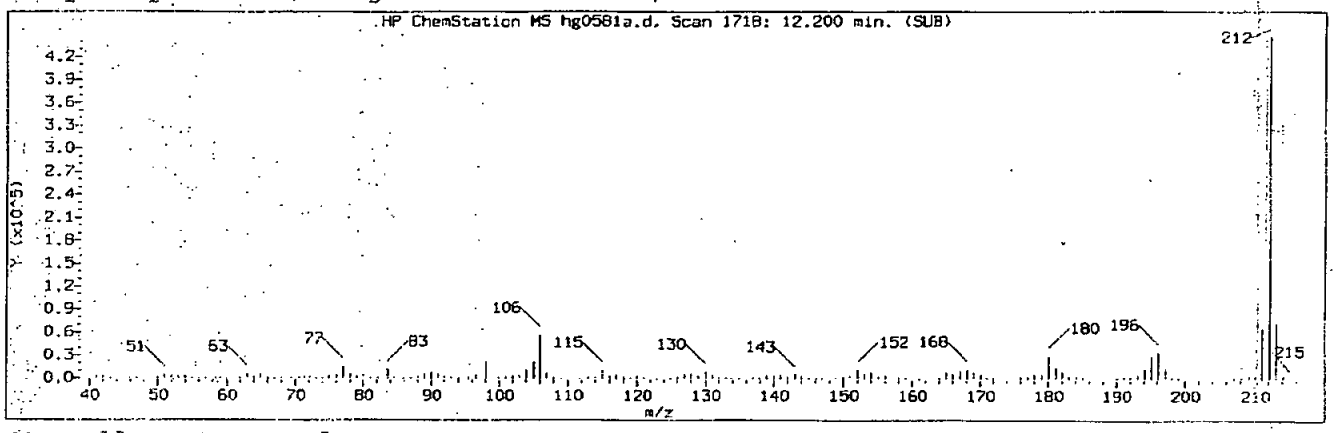
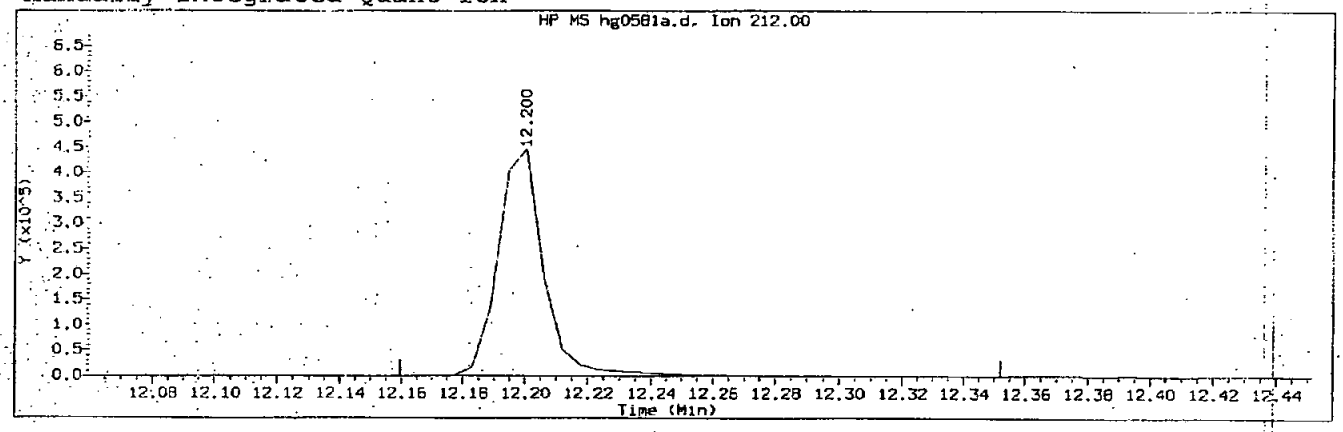
on 07/18/2012 at 04:19.
Target 3.5 esignature user ID: jmg00346

ASX73 0681

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0581a.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 18:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:16
Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1982

Compound Number	:	160
Compound Name	:	3,3'-Dimethylbenzidine
Scan Number	:	1718
Retention Time (minutes)	:	12.200
Quant Ion	:	212.00
Area (flag)	:	465661M
On-Column Amount (ng/ul)	:	30.9797
Integration start scan	:	1710 Integration stop scan: 1743
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration: improper integration

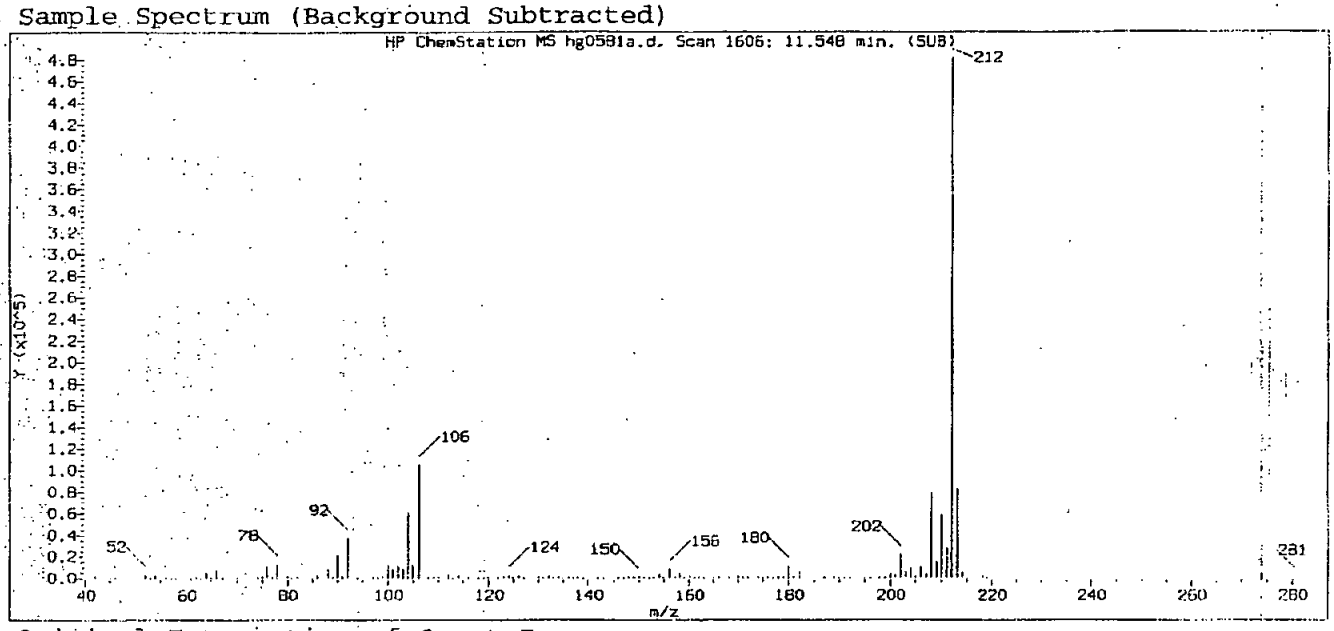
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:19 Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

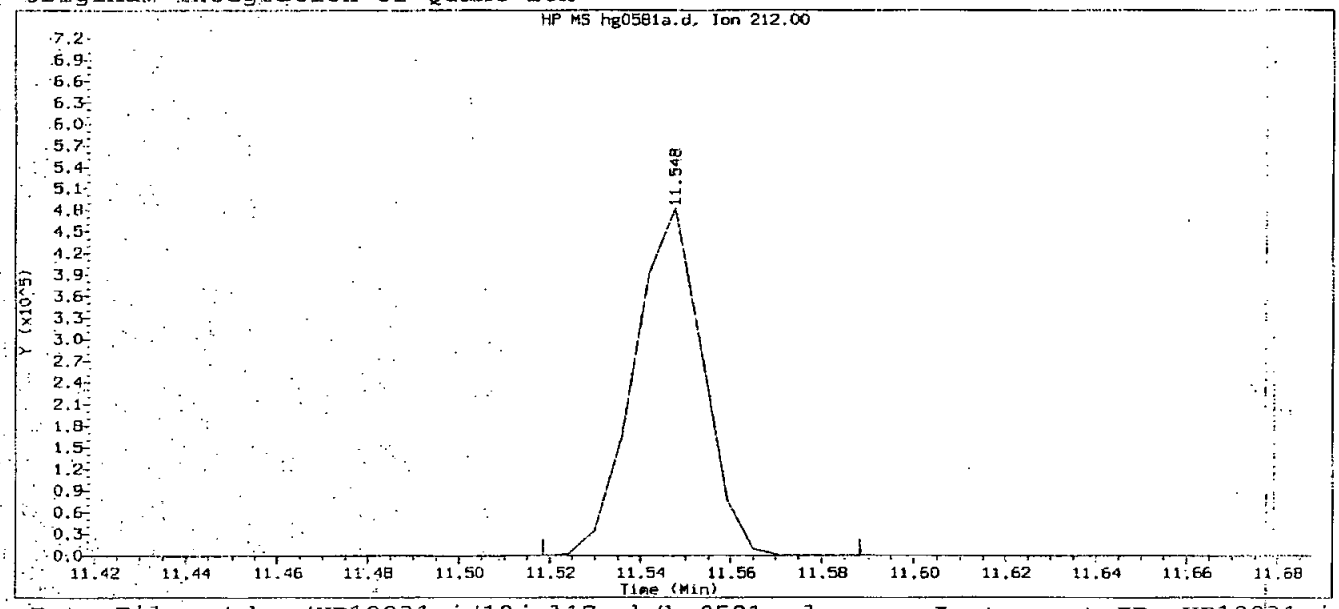
Matthew E. Barton
Senior Spec t

ASX73 8682

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



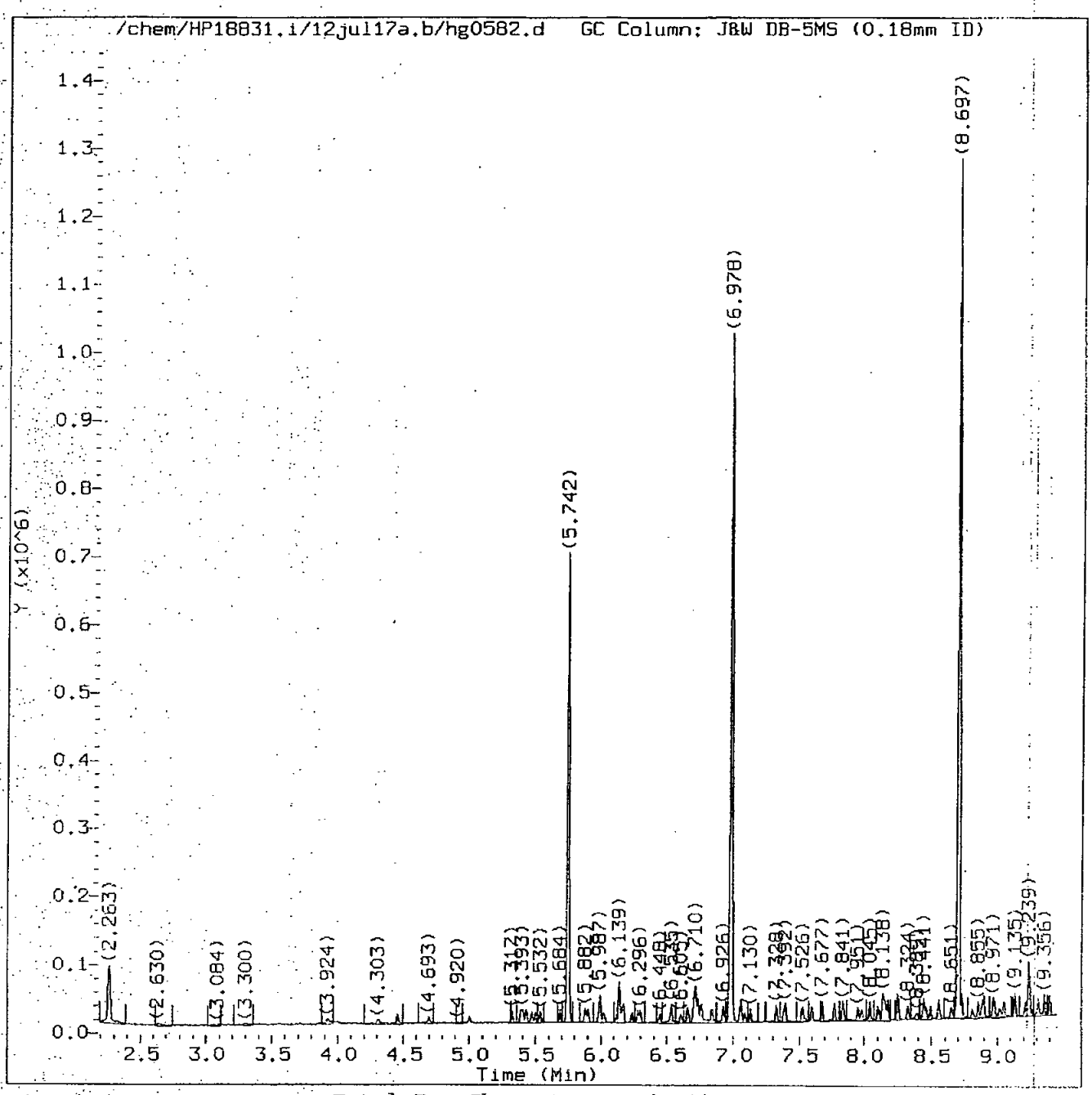
Data File: /chem/HP18831.i/12jul17a.b/hg0581a.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 18:44 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 19:47
Date, time and analyst ID of latest file update: 17-Jul-2012 19:47 hb01996

Sample Name: SSTD030 Lab Sample ID: STD1982

Compound Number	:	160
Compound Name	:	3,3'-Dimethylbenzidine
Scan Number	:	1606
Retention Time (minutes)	:	11.548
Quant Ion	:	212.00
Area	:	507494
On-column Amount (ng/ul)	:	35.7770
Integration start scan	:	1600 Integration stop scan: 1612
Y at integration start	:	0 Y at integration end: 0

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:19.
Target 3.5 esignature user ID: jmg00346



Total Ion Chromatogram (TIC)

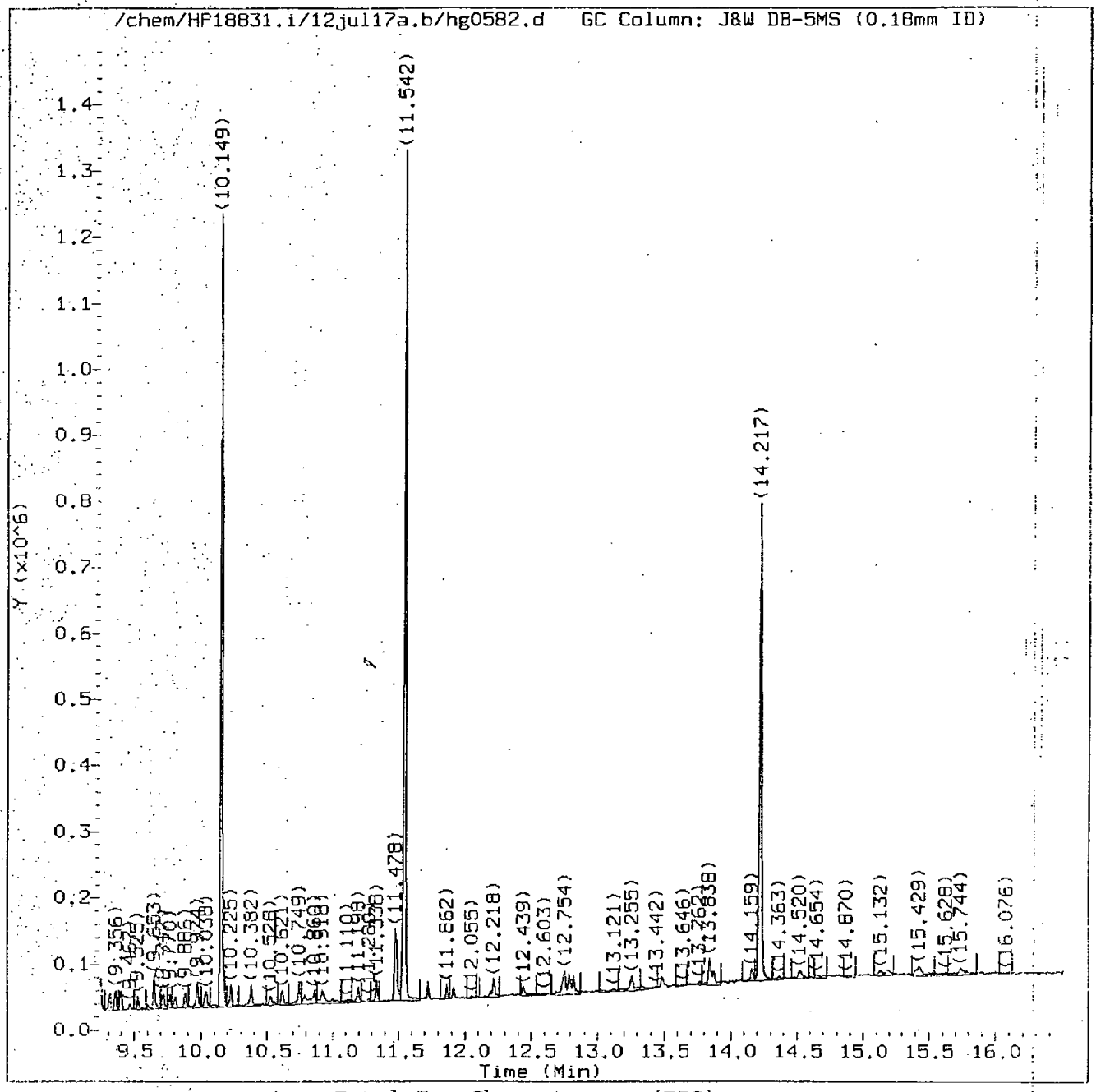
Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0582.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:14 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:16
Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD0.5 Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:19.
Target 3.5 esignature user ID: jmg00346



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0582.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:14 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:16
Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD0.5 Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:19.
Target 3.5 esignature user ID: jmg00346

ASX73 0685

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0582.d
Injection date and time: 17-JUL-2012 19:14

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:16

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD0.5

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
3) Pyridine	(1)	2.974	79	352	0.033
2) N-Nitrosodimethylamine	(1)	3.073	74	1477	0.229
5) 2-Picoline	(1)	3.924	93	4395	0.396
6) N-Nitrosomethylethylamine	(1)	4.000	88	3122	0.614
7) Methyl methanesulfonate	(1)	4.308	80	2756	0.475
9) $2-Fluorophenol	(1)	4.454	112	3862	0.456
10) N-Nitrosodiethylamine	(1)	4.693	102	2356	0.486
11) Ethyl methanesulfonate	(1)	5.008	109	2184	0.472
12) Benzaldehyde	(1)	5.317	77	4180	0.512
14) $Phenol-d5	(1)	5.387	99	5901	0.492
15) $Phenol-d6	(1)	5.387	99	5901	0.492
16) Phenol	(1)	5.398	94	7126	0.502
13) Aniline	(1)	5.428	93	7983	0.489
18) bis(2-Chloroethyl)ether	(1)	5.497	93	5877	0.556
19) 2-Chlorophenol	(1)	5.532	128	3618	0.460
20) 1,3-Dichlorobenzene	(1)	5.684	146	4211	0.531
21) *1,4-Dichlorobenzene-d4	(1)	5.742	152	100571	20.000
22) 1,4-Dichlorobenzene	(1)	5.760	146	4366	0.539
24) Benzyl alcohol	(1)	5.882	108	3340	0.490
25) 1,2-Dichlorobenzene	(1)	5.906	146	3928	0.521
26) 2-Methylphenol	(1)	5.987	108	4060	0.448
206) Indene	(1)	5.993	115	7119	0.499
27) 2,2'-oxybis(1-Chloropropane)	(1)	6.022	45	7133	0.577
28) bis(2-Chloroisopropyl)ether	(1)	6.022	45	7133	0.577
29) N-Nitrosopyrrolidine	(1)	6.115	100	2241	0.455
30) Acetophenone	(1)	6.133	105	7121	0.516
31) N-Nitroso-di-n-propylamine	(1)	6.139	70	4404	0.528
33) 4-Methylphenol	(1)	6.139	108	5384	0.548
32) N-Nitrosomorpholine	(1)	6.156	56	3594	0.611
34) o-Toluidine	(1)	6.168	106	7575	0.519
37) Hexachloroethane	(1)	6.238	117	1781	0.498
38) $Nitrobenzene-d5	(2)	6.279	82	5867	0.510
39) Nitrobenzene	(2)	6.296	77	6513	0.544
40) N-Nitrosopiperidine	(2)	6.448	114	2090	0.460
41) Isophorone	(2)	6.535	82	11573	0.515
42) 2-Nitrophenol	(2)	6.605	139	2092	0.495
44) 2,4-Dimethylphenol	(2)	6.657	107	4758	0.479
47) Benzoic acid	(2)	6.710	105	24102	3.144
45) O,O,O-triethylphosphorothioate	(2)	6.733	198	1962	0.500
46) bis(2-Chloroethoxy)methane	(2)	6.756	93	6580	0.486

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:19
Target 3.5 esignature user ID: jmg00346

ASX73 0686

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0582.d
Injection date and time: 17-JUL-2012 19:14

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:16

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD0.5

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
49) 2,4-Dichlorophenol	(2)	6.838	162	3188	0.500
50) 1,2,4-Trichlorobenzene	(2)	6.926	180	3435	0.487
52) *Naphthalene-d8	(2)	6.978	136	417688	20.000
53) Naphthalene	(2)	7.001	128	11997	0.504
56) 4-Chloroaniline	(2)	7.054	127	4887	0.506
57) 2,6-Dichlorophenol	(2)	7.060	162	3143	0.513
58) Hexachloropropene	(2)	7.089	213	1497	0.362
60) Hexachlorobutadiene	(2)	7.130	225	1744	0.478
194) Quinoline	(2)	7.328	129	7962	0.513
63) Caprolactam	(2)	7.380	113	1386	0.411
64) N-Nitrosodi-n-butylamine	(2)	7.392	84	4992	0.000
68) 4-Chloro-3-methylphenol	(2)	7.526	107	4051	0.464
69) Safrole	(2)	7.602	162	3020	0.497
70) 2-Methylnaphthalene	(2)	7.677	142	7388	0.508
71) 1-Methylnaphthalene	(2)	7.776	142	7212	0.507
72) Hexachlorocyclopentadiene	(3)	7.835	237	785	0.254
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.841	216	3383	0.506
74) cis-Isosafrole	(3)	7.887	162	539	0.051
75) 2,4,6-Trichlorophenol	(3)	7.951	196	2121	0.455
77) 2,4,5-Trichlorophenol	(3)	7.980	196	2380	0.462
115) 4,6-Dinitro-2-methylphenol	(4)	7.980	198	2253	0.718
78) $2-Fluorobiphenyl	(3)	8.045	172	7849	0.469
79) trans-Isosafrole	(3)	8.103	162	3109	0.427
80) Isosafrole	(3)	8.103	162	3109	0.480
83) 1,1'-Biphenyl	(3)	8.138	154	10223	0.513
84) 2-Chloronaphthalene	(3)	8.155	162	7015	0.485
85) 1-Chloronaphthalene	(3)	8.173	162	7432	0.517
88) Diphenyl ether	(3)	8.243	170	5171	0.488
89) 2-Nitroaniline	(3)	8.249	138	2216	0.444
90) 1,4-Naphthoquinone	(3)	8.324	158	2701	0.442
91) 1,4-Dinitrobenzene	(3)	8.389	168	944	0.346
92) Dimethylphthalate	(3)	8.441	163	8653	0.511
93) 1,3-Dinitrobenzene	(3)	8.458	168	1282	0.400
94) 2,6-Dinitrotoluene	(3)	8.493	165	1489	0.389
95) Acenaphthylene	(3)	8.558	152	11032	0.502
97) 3-Nitroaniline	(3)	8.651	138	1955	0.447
98) *Acenaphthene-d10	(3)	8.697	164	250893	20.000
99) Acenaphthene	(3)	8.727	153	7730	0.514
103) 4-Nitrophenol	(3)	8.808	109	1495	0.494
101) Pentachlorobenzene	(3)	8.855	250	2689	0.500

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:19
Target 3.5 esignature user ID: jmg00346

ASX73 0687

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0582.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:14 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:16
Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD0.5 Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
105) 2,4-Dinitrotoluene	(3)	8.884	165	1767	0.358
104) Dibenzofuran	(3)	8.896	168	11265	0.528
106) 1-Naphthylamine	(3)	8.971	143	7558	0.493
107) 2,3,4,6-Tetrachlorophenol	(3)	9.018	232	1585	0.431
108) 2-Naphthylamine	(3)	9.053	143	7750	0.512
109) Diethylphthalate	(3)	9.135	149	8960	0.511
110) Thionazin	(3)	9.216	107	1781	0.494
111) Fluorene	(3)	9.234	166	8793	0.516
114) 4-Nitroaniline	(3)	9.239	138	1912	0.433
113) 5-Nitro-o-toluidine	(3)	9.239	152	2251	0.461
112) 4-Chlorophenyl-phenylether	(3)	9.245	204	4055	0.493
202) NDPA as diphenylamine	(4)	9.356	169	7355	0.471
117) N-Nitrosodiphenylamine	(4)	9.356	169	7355	0.475
118) 1,2-Diphenylhydrazine	(4)	9.397	77	12353	0.458
119)$2,4,6-Tribromophenol	(3)	9.467	330	549	0.342
120) Tetraethyldithiopyrophosphate	(4)	9.525	97	1766	0.467
122) Diallate (peak 1)	(4)	9.647	86	4438	0.355
123) Phorate	(4)	9.653	75	5950	0.000
124) Phenacetin	(4)	9.659	108	4287	0.393
125) 4-Bromophenyl-phenylether	(4)	9.717	248	2036	0.461
126) Diallate (peak 2)	(4)	9.735	86	1018	0.133
127) Hexachlorobenzene	(4)	9.770	284	2233	0.516
128) Dimethoate	(4)	9.811	87	3758	0.425
130) Atrazine	(4)	9.886	200	2161	0.521
131) Pentachlorophenol	(4)	9.968	266	643	0.231
133) 4-Aminobiphenyl	(4)	9.974	169	7908	0.543
134) Pronamide	(4)	10.038	173	3047	0.402
135)*Phenanthrene-d10	(4)	10.149	188	437970	20.000
100) 2,4-Dinitrophenol	(3)	10.155	184	61190	26.206
137) Phenanthrene	(4)	10.172	178	12800	0.507
138) Anthracene	(4)	10.225	178	11543	0.463
140) Carbazole	(4)	10.382	167	11552	0.486
141) Methyl parathion	(4)	10.528	109	2293	0.360
143) Parathion	(4)	10.528	109	2293	0.564
142) Di-n-butylphthalate	(4)	10.749	149	13933	0.461
146) Isodrin	(4)	11.198	193	1582	0.544
147) Fluoranthene	(4)	11.338	202	12284	0.491
152) Benzidine	(5)	11.478	184	48372	3.007
136) Dinoseb	(4)	11.542	211	27162	9.076
160) 3,3'-Dimethylbenzidine	(5)	11.542	212	479300	33.767

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:19.
Target 3.5 esignature user ID: jmg00346

ASX73 0688

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0582.d
Injection date and time: 17-JUL-2012 19:14

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:16

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD0.5

Lab Sample ID: STD1982

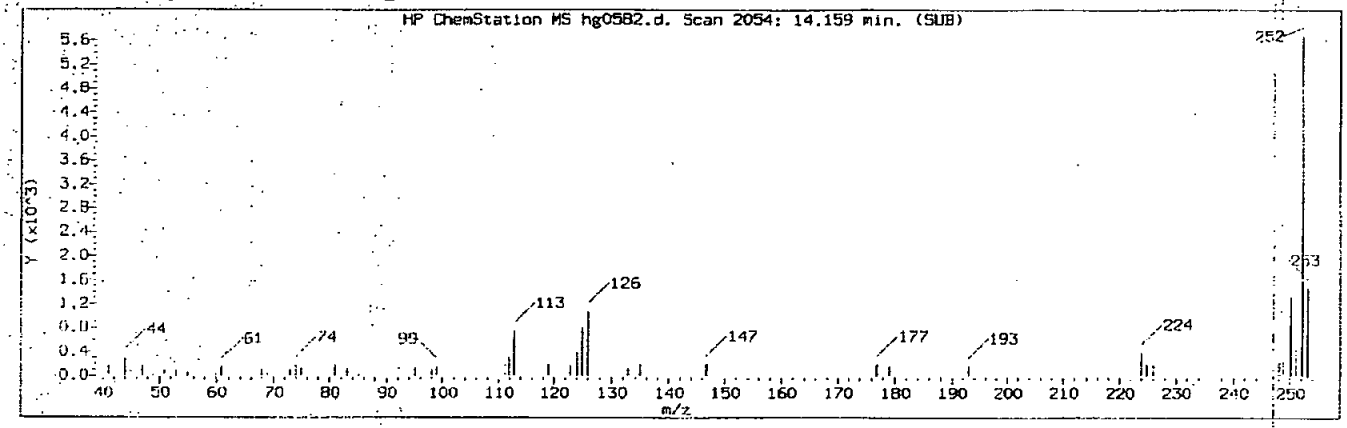
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
167) *Pyrene-d10	(5)	11.542	212	478823	20.000
154) Pyrene	(5)	11.559	202	14233	0.518
156) $Terphenyl-d14	(5)	11.722	244	7650	0.477
158) p-Dimethylaminoazobenzene	(5)	11.862	225	1977	0.407
159) Chlorobenzilate	(5)	11.915	139	3422	0.439
161) Butylbenzylphthalate	(5)	12.218	149	5189	0.435
162) 2-Acetylaminofluorene	(5)	12.439	181	2690	0.311
164) 3,3'-Dichlorobenzidine	(5)	12.737	252	2709	0.379
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.748	231	1094	0.302
166) Benzo(a)anthracene	(5)	12.754	228	9756	0.484
168) Chrysene	(5)	12.789	228	10207	0.502
169) bis(2-Ethylhexyl)phthalate	(5)	12.818	149	6052	0.397
189) 6-Methylchrysene	(5)	13.255	242	6125	0.454
170) Di-n-octylphthalate	(6)	13.483	149	8588	0.337
172) Benzo(b)fluoranthene	(6)	13.838	252	9037	0.503
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.838	256	3305	0.407
173) Benzo(k)fluoranthene	(6)	13.867	252	7960	0.447
174) Benzo(a)pyrene	(6)	14.159	252	7131M	0.442
175) *Perylene-d12	(6)	14.217	264	284212	20.000
176) 3-Methylcholanthrene	(6)	14.520	268	3186	0.403
191) Dibenz(a,j)acridine	(6)	15.132	279	4094	0.332
190) Dibenz(a,h)acridine	(6)	15.132	279	4094	0.359
177) Indeno(1,2,3-cd)pyrene	(6)	15.400	276	6844	0.439
178) Dibenz(a,h)anthracene	(6)	15.429	278	5978	0.467
179) Benzo(g,h,i)perylene	(6)	15.744	276	5582	0.424
129) Diallate TRANS/CIS	(4)			5456	0.483

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

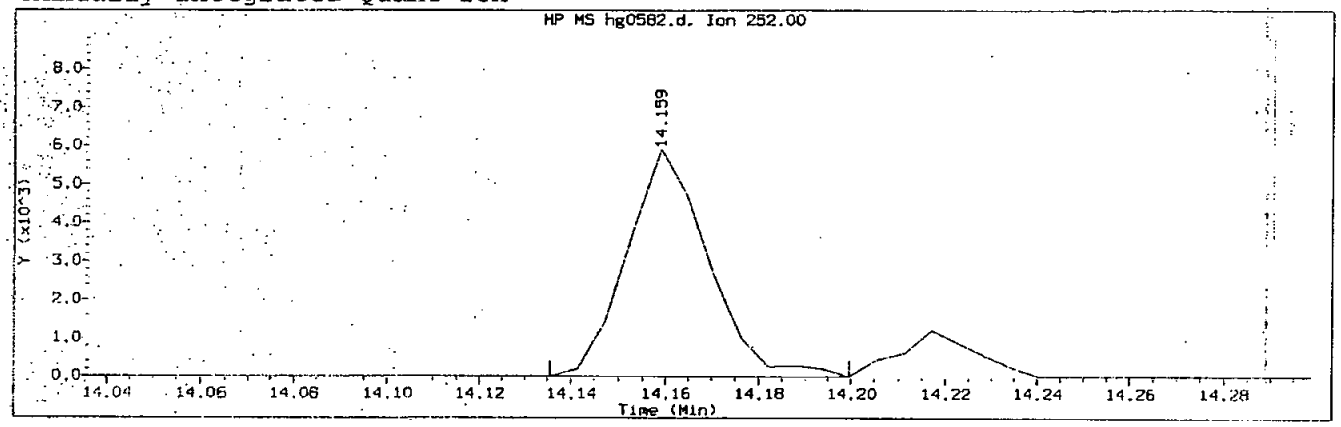
Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:19.
Target 3.5 esignature user ID: jmg00346

ASX73 0689

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0582.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:14 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:16
Date, time and analyst ID of latest file update: 18-Jul-2012 04:16 jmg00346

Sample Name: SSTD0.5 Lab Sample ID: STD1982

Compound Number	: 174		
Compound Name	: Benzo(a)pyrene		
Scan Number	: 2054		
Retention Time (minutes)	: 14.159		
Quant Ion	: 252.00		
Area (flag)	: 7131M		
On-Column Amount (ng/ul)	: 0.4422		
Integration start scan	: 2049	Integration stop scan:	2060
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:19. Target 3.5 esignature user ID: jmg00346

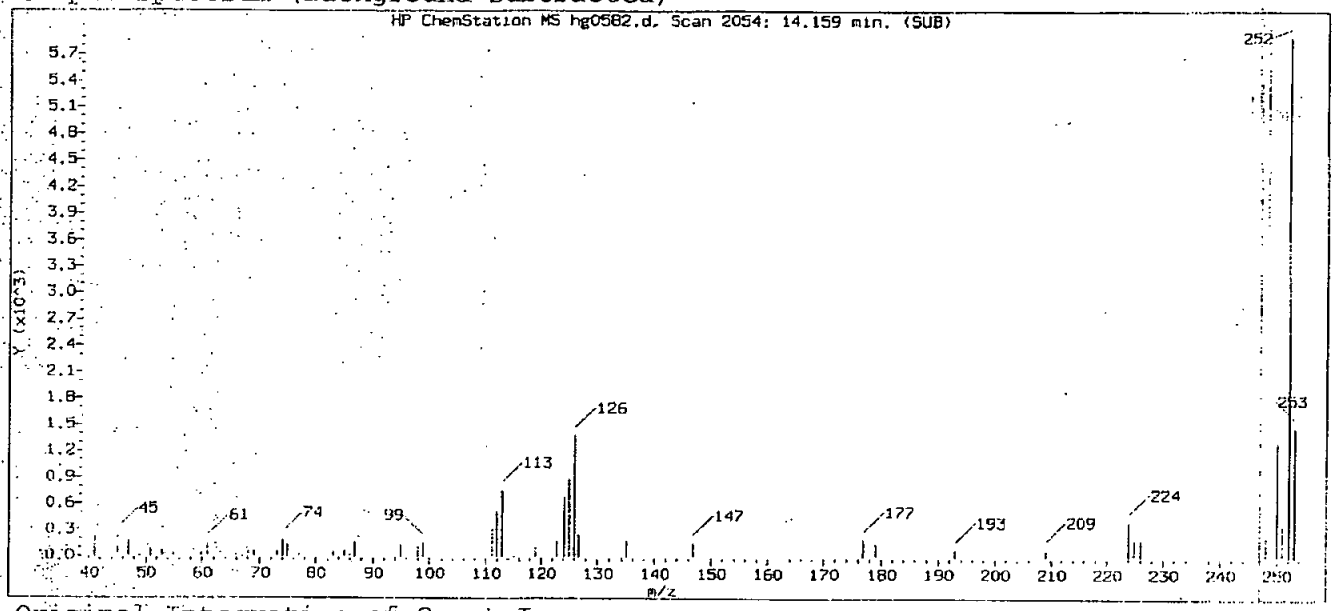
GC/MS audit/management approval: _____

JUL 18 2012

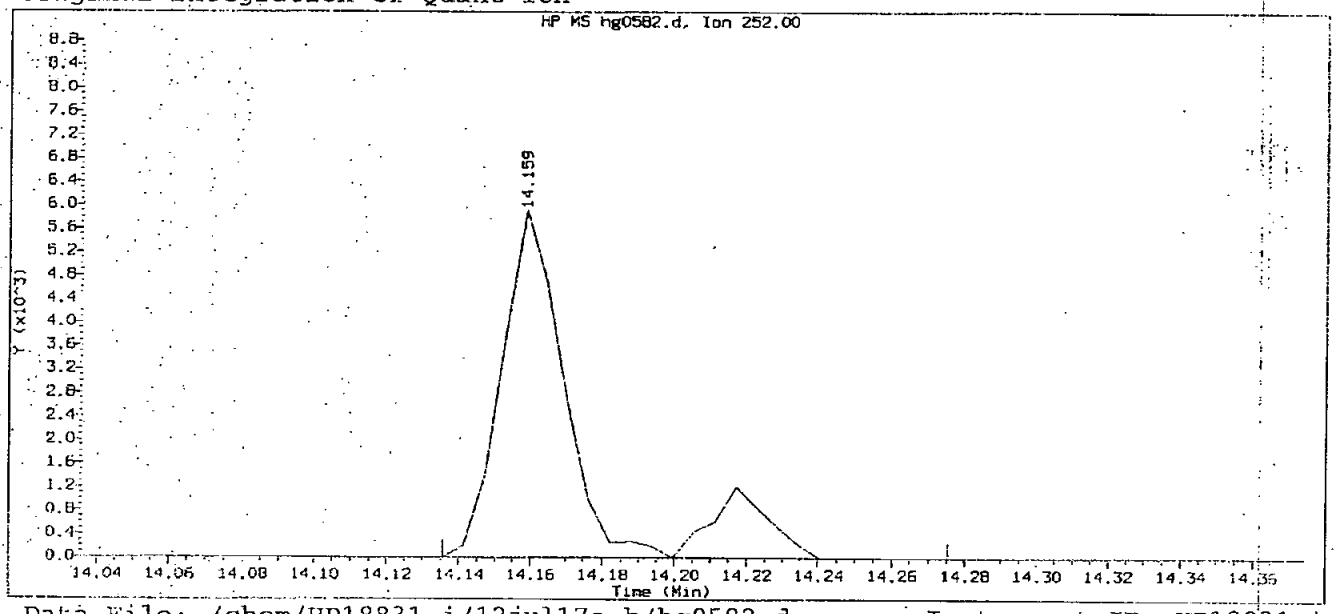
Matthew E. Barton
Senior Specialist

ASX73 0698

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0582.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:14 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 19:47
Date, time and analyst ID of latest file update: 17-Jul-2012 19:47 hb01996

Sample Name: SSTD0.5 Lab Sample ID: STD1982

Compound Number	:	174
Compound Name	:	Benzo(a)pyrene
Scan Number	:	2054
Retention Time (minutes)	:	14.159
Quant Ion	:	252.00
Area	:	8479
On-column Amount (ng/ul)	:	0.5609
Integration start scan	:	2049
Integration stop scan	:	2073
Y at integration start	:	0
Y at integration end	:	0

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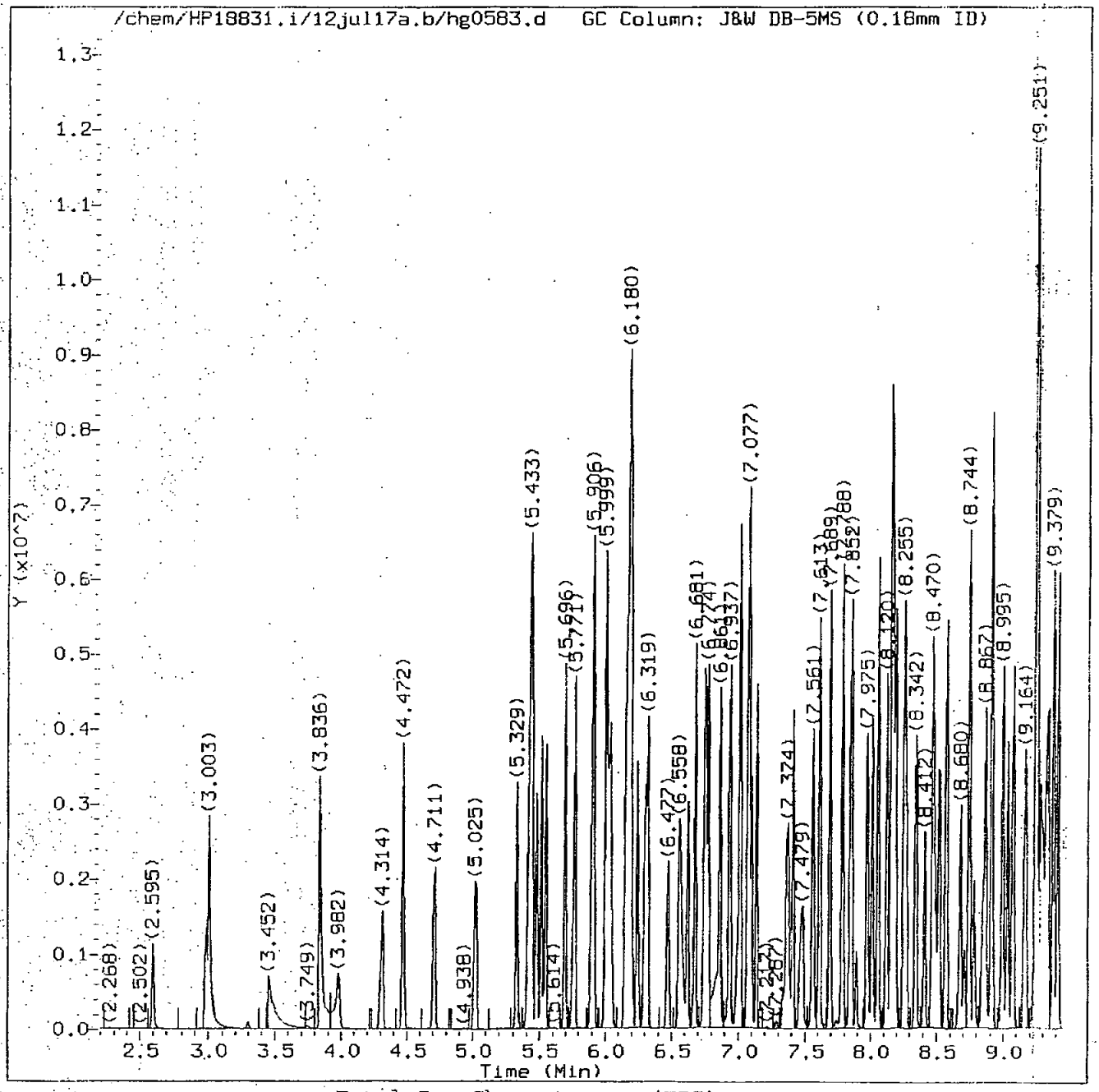
Target 3.5 esignature user ID: jmg00346



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0583.d
Injection date and time: 17-JUL-2012 19:37

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120

Lab Sample ID: STD1982

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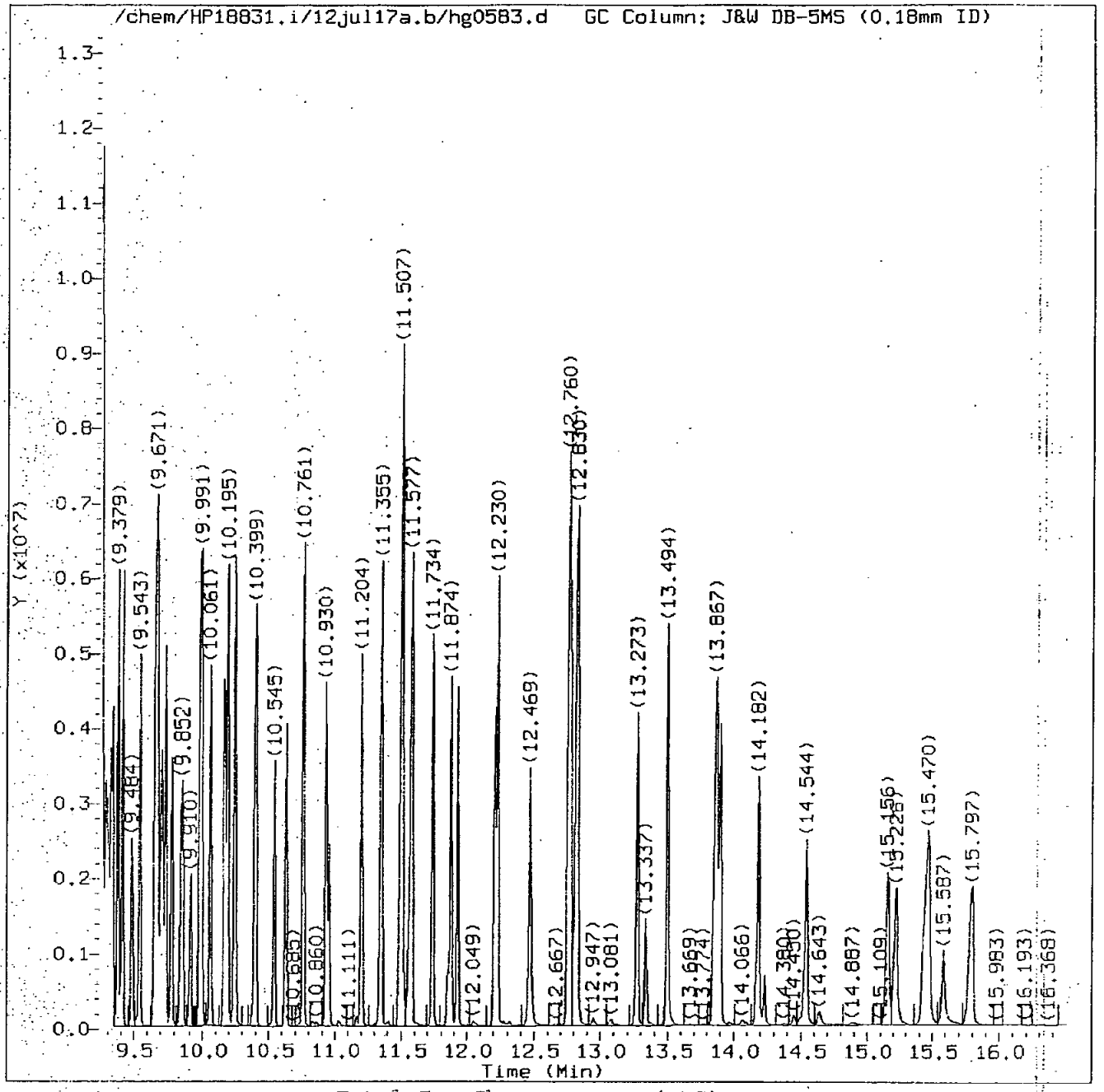
on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346

ASX73 0692



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0583.d
Injection date and time: 17-JUL-2012 19:37

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:20
Target 3.5 esignature user ID: jmg00346

ASX73 0693

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0583.d
Injection date and time: 17-JUL-2012 19:37

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.595	88	523310	119.830
2) N-Nitrosodimethylamine	(1)	2.985	74	889623	123.758
3) Pyridine	(1)	3.003	79	1532093	127.827
5) 2-Picoline	(1)	3.836	93	1485083	120.083
6) N-Nitrosomethylethylamine	(1)	3.982	88	685412	120.824
7) Methyl methanesulfonate	(1)	4.314	80	789079	121.925
9)$2-Fluorophenol	(1)	4.472	112	1149598	121.608
10) N-Nitrosodiethylamine	(1)	4.711	102	661575	122.271
11) Ethyl methanesulfonate	(1)	5.025	109	615091	119.132
12) Benzaldehyde	(1)	5.329	77	800546	87.982
14)$Phenol-d5	(1)	5.416	99	1576908	117.779
15)$Phenol-d6	(1)	5.416	99	1576908	117.779
16) Phenol	(1)	5.433	94	1843455	116.444
13) Aniline	(1)	5.439	93	2139876	117.603
18) bis(2-Chloroethyl)ether	(1)	5.515	93	1395000	118.401
19) 2-Chlorophenol	(1)	5.550	128	1041641	118.799
20) 1,3-Dichlorobenzene	(1)	5.696	146	1019165	115.226
21)*1,4-Dichlorobenzene-d4	(1)	5.748	152	112190	20.000
22) 1,4-Dichlorobenzene	(1)	5.771	146	1025596	113.566
24) Benzyl alcohol	(1)	5.900	108	853550	112.234
25) 1,2-Dichlorobenzene	(1)	5.911	146	944096	112.320
206) Indene	(1)	5.999	115	1784686	112.115
26) 2-Methylphenol	(1)	6.016	108	1183759M	117.081
27) 2,2'-oxybis(1-Chloropropane)	(1)	6.034	45	1575012	114.157
28) bis(2-Chloroisopropyl)ether	(1)	6.034	45	1575012	114.157
30) Acetophenone	(1)	6.156	105	1728876	112.229
29) N-Nitrosopyrrolidine	(1)	6.168	100	633327	115.270
33) 4-Methylphenol	(1)	6.174	108	1241291	113.336
31) N-Nitroso-di-n-propylamine	(1)	6.185	70	1006052	108.142
34) o-Toluidine	(1)	6.191	106	1772253	108.949
32) N-Nitrosomorpholine	(1)	6.203	56	725363	110.571
37) Hexachloroethane	(1)	6.244	117	466478	116.813
38)$Nitrobenzene-d5	(2)	6.302	82	1494135	122.004
39) Nitrobenzene	(2)	6.319	77	1565681	122.805
40) N-Nitrosopiperidine	(2)	6.477	114	581613	120.177
41) Isophorone	(2)	6.558	82	2904811	121.340
42) 2-Nitrophenol	(2)	6.622	139	554546	123.120
44) 2,4-Dimethylphenol	(2)	6.681	107	1243911	117.461
45) O,O,O-triethylphosphorothioate	(2)	6.751	198	473395	113.337
46) bis(2-Chloroethoxy)methane	(2)	6.774	93	2076456	144.077

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346

ASX73 0694

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
47) Benzoic acid	(2)	6.856	105	1009278M	123.612
49) 2,4-Dichlorophenol	(2)	6.867	162	781730	115.097
50) 1,2,4-Trichlorobenzene	(2)	6.937	180	869499	115.833
52) *Naphthalene-d8	(2)	6.990	136	444885	20.000
53) Naphthalene	(2)	7.013	128	2845831	112.274
57) 2,6-Dichlorophenol	(2)	7.077	162	723432	110.775
56) 4-Chloroaniline	(2)	7.077	127	1156220	112.290
58) Hexachloropropene	(2)	7.100	213	549932	124.689
60) Hexachlorobutadiene	(2)	7.135	225	443346	114.126
194) Quinoline	(2)	7.374	129	1819412A	109.989
64) N-Nitrosodi-n-butylamine	(2)	7.409	84	960868	120.112
63) Caprolactam	(2)	7.479	113	408062A	113.723
68) 4-Chloro-3-methylphenol	(2)	7.561	107	1099459	118.123
69) Safrole	(2)	7.613	162	731205	112.870
70) 2-Methylnaphthalene	(2)	7.689	142	1739504	112.379
71) 1-Methylnaphthalene	(2)	7.788	142	1678482	110.849
72) Hexachlorocyclopentadiene	(3)	7.846	237	408007	129.675
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.852	216	777924	114.278
74) cis-Isosafrole	(3)	7.887	162	141423	13.233
75) 2,4,6-Trichlorophenol	(3)	7.975	196	567814	119.650
77) 2,4,5-Trichlorophenol	(3)	8.010	196	622824	118.766
78) $2-Fluorobiphenyl	(3)	8.056	172	1973856	115.890
79) trans-Isosafrole	(3)	8.126	162	772290	104.179
80) Isosafrole	(3)	8.126	162	772290	117.055
83) 1,1'-Biphenyl	(3)	8.155	154	2151771	106.214
84) 2-Chloronaphthalene	(3)	8.173	162	1565780	106.372
85) 1-Chloronaphthalene	(3)	8.190	162	1649076	112.768
88) Diphenyl ether	(3)	8.255	170	1208645	112.075
89) 2-Nitroaniline	(3)	8.272	138	616985	121.370
90) 1,4-Naphthoquinone	(3)	8.342	158	689075	110.877
91) 1,4-Dinitrobenzene	(3)	8.412	168	346538	124.901
92) Dimethylphthalate	(3)	8.470	163	1904742	110.449
93) 1,3-Dinitrobenzene	(3)	8.488	168	390623	119.847
94) 2,6-Dinitrotoluene	(3)	8.523	165	469338	120.354
95) Acenaphthylene	(3)	8.575	152	2533896	113.407
97) 3-Nitroaniline	(3)	8.680	138	532932	119.625
98) *Acenaphthene-d10	(3)	8.709	164	255302	20.000
99) Acenaphthene	(3)	8.744	153	1677548	109.648
100) 2,4-Dinitrophenol	(3)	8.785	184	325135	136.841
103) 4-Nitrophenol	(3)	8.849	109	394527	127.986

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: jmg00346

ASX73 0695

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.872	250	610445	111.446
104) Dibenzofuran	(3)	8.913	168	2314372	106.643
105) 2,4-Dinitrotoluene	(3)	8.919	165	566234	112.765
106) 1-Naphthylamine	(3)	8.995	143	1766456	113.304
107) 2,3,4,6-Tetrachlorophenol	(3)	9.036	232	450130	120.263
108) 2-Naphthylamine	(3)	9.076	143	1686341	109.573
109) Diethylphthalate	(3)	9.164	149	2040537	114.377
110) Thionazin	(3)	9.245	107	371706	101.399
111) Fluorene	(3)	9.251	166	1780173	102.624
112) 4-Chlorophenyl-phenylether	(3)	9.257	204	853123	101.952
113) 5-Nitro-o-toluidine	(3)	9.280	152	587134	118.068
114) 4-Nitroaniline	(3)	9.298	138	511888A	113.979
115) 4,6-Dinitro-2-methylphenol	(4)	9.321	198	374400	132.182
117) N-Nitrosodiphenylamine	(4)	9.379	169	1647796	117.937
202) NDPA as diphenylamine	(4)	9.379	169	1647796	116.881
118) 1,2-Diphenylhydrazine	(4)	9.414	77	2902444	119.286
119)$2,4,6-Tribromophenol	(3)	9.484	330	196226	120.259
120) Tetraethyldithiopyrophosphate	(4)	9.543	97	403749	118.350
121) 1,3,5-Trinitrobenzene	(4)	9.659	213	236495	121.086
122) Diallate (peak 1)	(4)	9.665	86	988470	87.657
123) Phorate	(4)	9.671	75	2403082	120.423
124) Phenacetin	(4)	9.712	108	1268514	128.974
125) 4-Bromophenyl-phenylether	(4)	9.735	248	478081	120.064
126) Diallate (peak 2)	(4)	9.741	86	211397	30.612
127) Hexachlorobenzene	(4)	9.787	284	467190	119.694
128) Dimethoate	(4)	9.852	87	902247	112.993
130) Atrazine	(4)	9.910	200	211068	56.400
131) Pentachlorophenol	(4)	9.980	266	322622	128.618
132) Pentachloronitrobenzene	(4)	9.991	237	216800	121.067
133) 4-Aminobiphenyl	(4)	9.991	169	1270172	96.646
134) Pronamide	(4)	10.061	173	863001	126.189
135)*Phenanthrene-d10	(4)	10.166	188	395177	20.000
136) Dinoseb	(4)	10.172	211	545456	121.217
137) Phenanthrene	(4)	10.195	178	2653817	116.557
138) Anthracene	(4)	10.242	178	2709601	120.436
140) Carbazole	(4)	10.399	167	2556785	119.190
141) Methyl parathion	(4)	10.545	109	651316	113.290
142) Di-n-butylphthalate	(4)	10.761	149	3263314	119.636
143) Parathion	(4)	10.930	109	468450	127.636
144) 4-Nitroquinoline-1-oxide	(4)	10.953	190	245327	118.115

A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: jmg00346

ASX73 0696

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1982

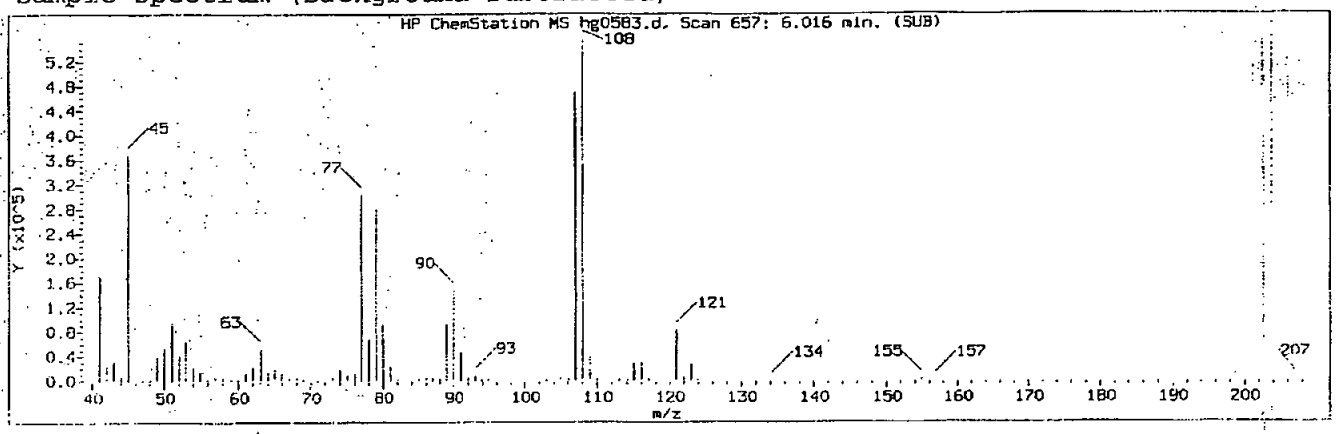
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.204	193	316883	120.855
147) Fluoranthene	(4)	11.355	202	2780062	123.101
152) Benzidine	(5)	11.507	184	5028946	347.979
167) *Pyrene-d10	(5)	11.554	212	430152	20.000
154) Pyrene	(5)	11.577	202	2797804	113.329
156) $Terphenyl-d14	(5)	11.734	244	1688876	117.263
158) p-Dimethylaminoazobenzene	(5)	11.880	225	546833	125.182
159) Chlorobenzilate	(5)	11.927	139	878102	125.473
160) 3,3'-Dimethylbenzidine	(5)	12.212	212	1564128M	122.662
161) Butylbenzylphthalate	(5)	12.230	149	1272175	118.761
162) 2-Acetylaminofluorene	(5)	12.469	181	1032091	132.844
164) 3,3'-Dichlorobenzidine	(5)	12.754	252	774444	120.679
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.760	231	399994	122.906
166) Benzo(a)anthracene	(5)	12.778	228	2188431	120.783
168) Chrysene	(5)	12.812	228	2034005	111.377
169) bis(2-Ethylhexyl)phthalate	(5)	12.830	149	1619645	118.303
189) 6-Methylchrysene	(5)	13.273	242	1478789	122.010
170) Di-n-octylphthalate	(6)	13.494	149	2758267	126.694
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.862	256	851030	122.526
172) Benzo(b)fluoranthene	(6)	13.873	252	1951138	126.995
173) Benzo(k)fluoranthene	(6)	13.897	252	1695062A	111.466
174) Benzo(a)pyrene	(6)	14.182	252	1766763	128.240
175) *Perylene-d12	(6)	14.229	264	242806	20.000
176) 3-Methylcholanthrene	(6)	14.544	268	867570	128.598
190) Dibenz(a,h)acridine	(6)	15.156	279	1367915	140.594
191) Dibenz(a,j)acridine	(6)	15.226	279	1368036	129.868
177) Indeno(1,2,3-cd)pyrene	(6)	15.447	276	1776975	133.437
178) Dibenz(a,h)anthracene	(6)	15.476	278	1411722	129.043
179) Benzo(g,h,i)perylene	(6)	15.797	276	1540681	137.016
129) Diallate TRANS/CIS	(4)			1199867	117.821

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

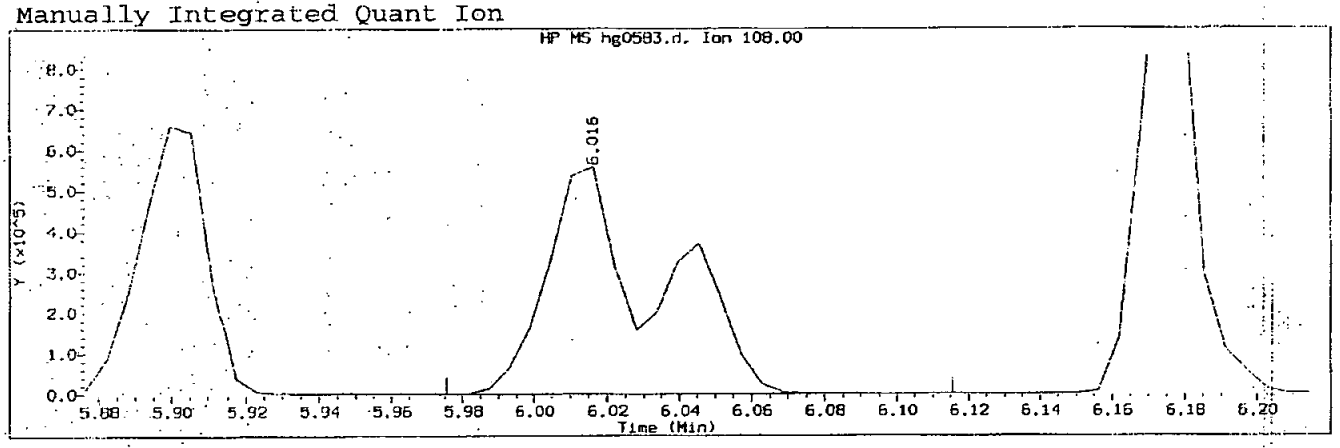
Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346

ASX73 0697

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1982

Compound Number	: 26		
Compound Name	: 2-Methylphenol		
Scan Number	: 657		
Retention Time (minutes)	: 6.016		
Quant Ion	: 108.00		
Area (flag)	: 1183759M		
On-Column Amount (ng/ul)	: 117.0806		
Integration start scan	: 649	Integration stop scan:	673
Y at integration start	: 149	Y at integration end:	149

Reason for manual integration: improper integration

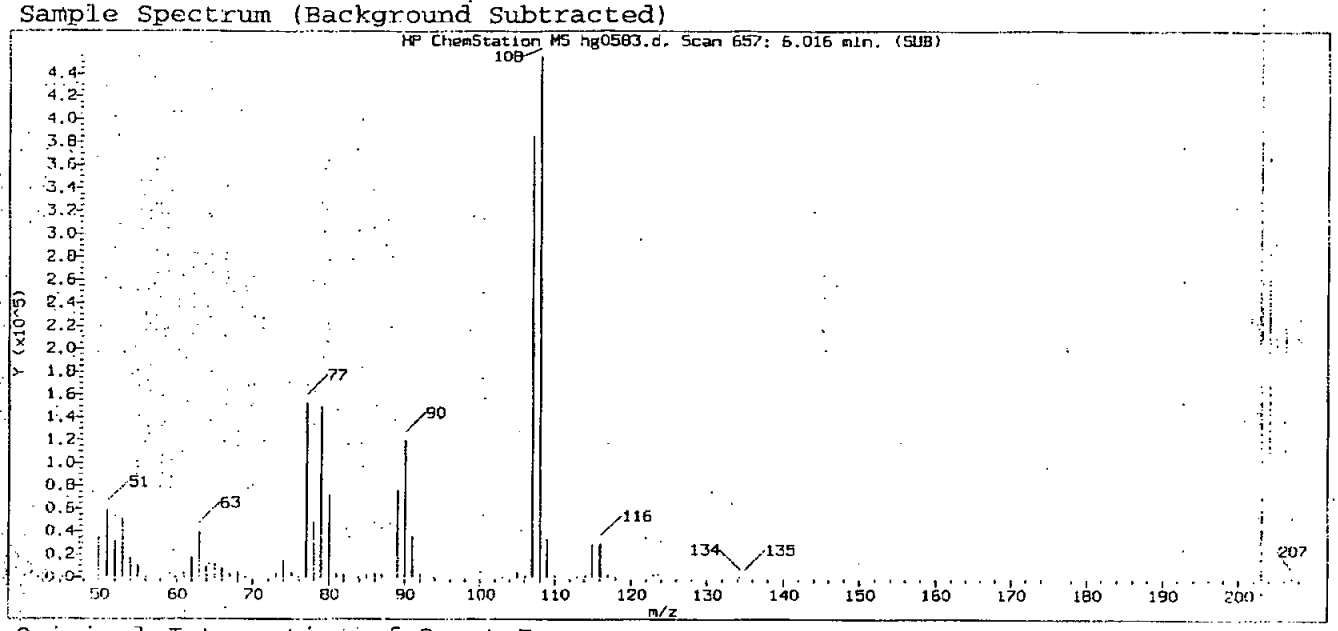
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

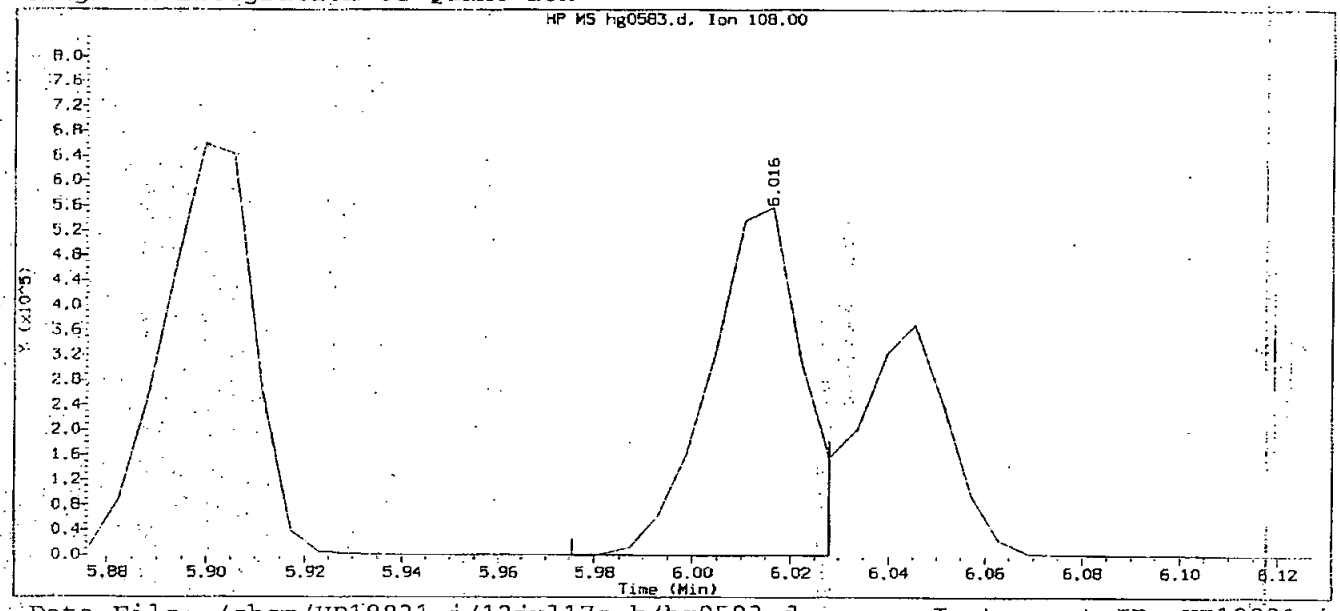
Matthew E. Barton
Senior Specialist

ASX73 8698

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

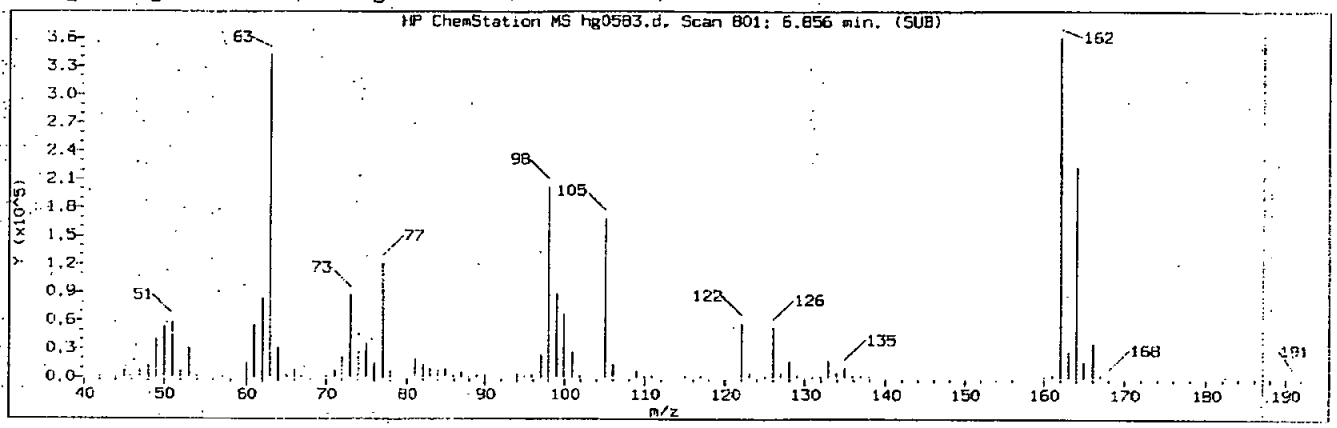
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 19:55
Date, time and analyst ID of latest file update: 17-Jul-2012 19:55 Automation

Sample Name: SSTD120 Lab Sample ID: STD1982

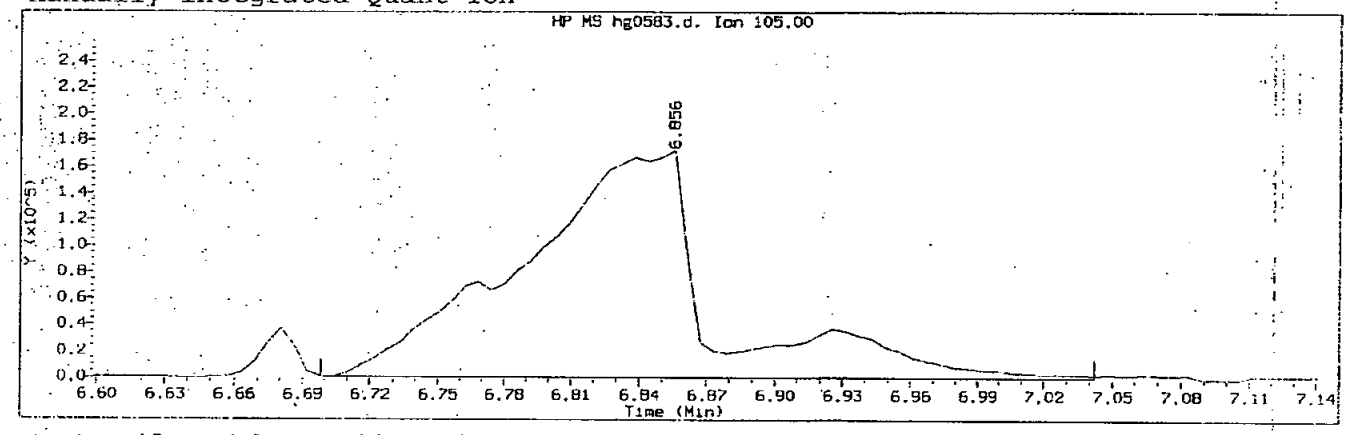
Compound Number	: 26		
Compound Name	: 2-Methylphenol		
Scan Number	: 657		
Retention Time (minutes)	: 6.016		
Quant Ion	: 108.00		
Area	: 715776		
On-column Amount (ng/ul)	: 84.3150		
Integration start scan	: 649	Integration stop scan:	658
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1982

Compound Number	: 47		
Compound Name	: Benzoic acid		
Scan Number	: 801		
Retention Time (minutes)	: 6.856		
Quant Ion	: 105.00		
Area (flag)	: 1009278M		
On-Column Amount (ng/ul)	: 123.6122		
Integration start scan	: 773	Integration stop scan:	832
Y at integration start	: 402	Y at integration end:	402

Reason for manual integration: improper integration

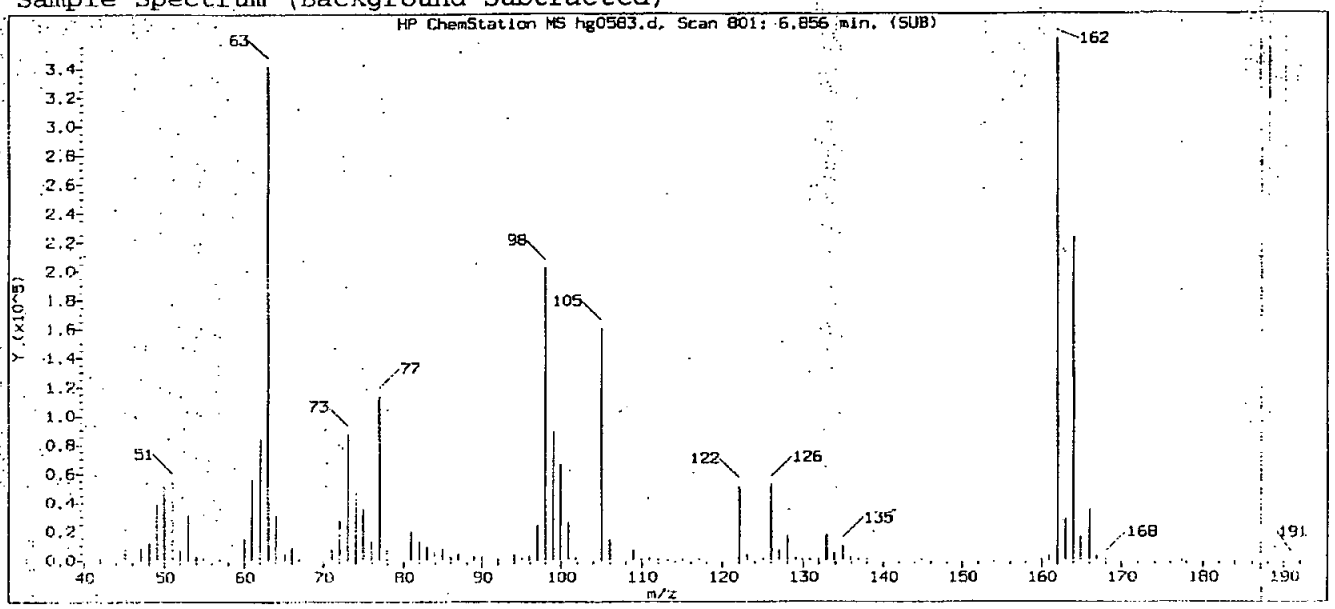
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

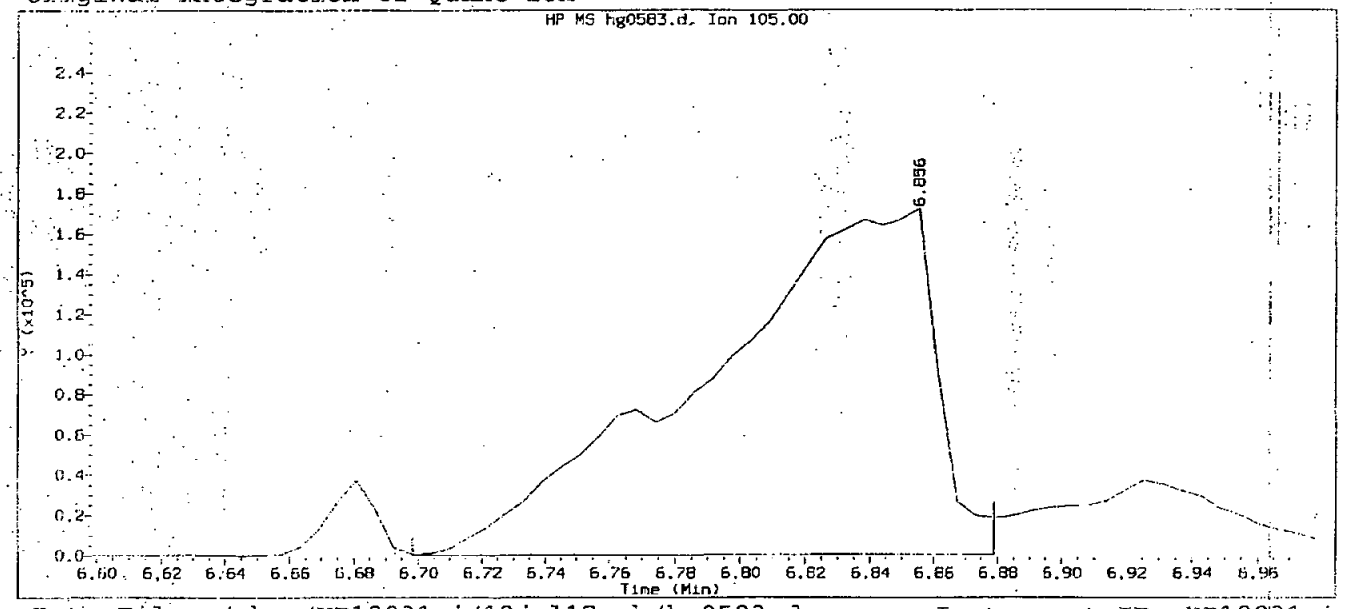
Matthew E. Bar[illegible]
Senior Special

ASX73 8788

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

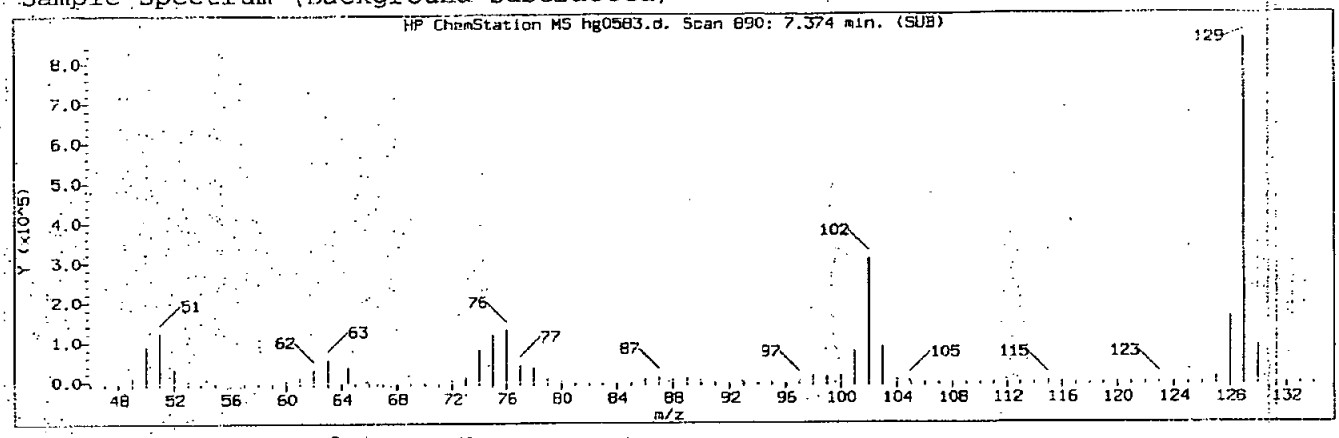
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 19:55
Date, time and analyst ID of latest file update: 17-Jul-2012 19:55 Automation

Sample Name: SSTD120 Lab Sample ID: STD1982

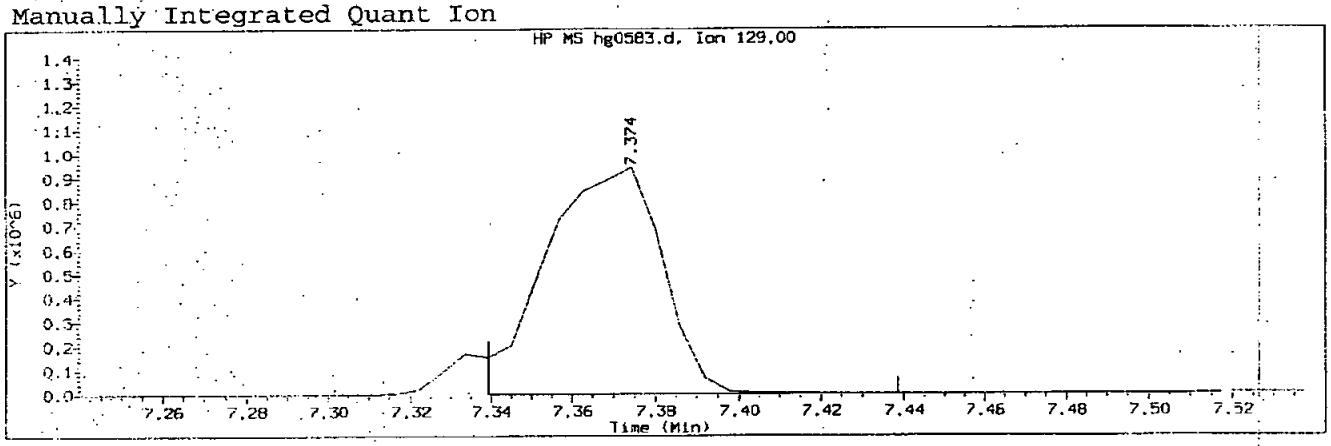
Compound Number	: 47		
Compound Name	: Benzoic acid		
Scan Number	: 801		
Retention Time (minutes)	: 6.856		
Quant Ion	: 105.00		
Area	: 850312		
On-column Amount (ng/ul)	: 181.7368		
Integration start scan	: 773	Integration stop scan:	804
Y at integration start	: 319	Y at integration end:	665

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1982

Compound Number	: 194		
Compound Name	: Quinoline		
Scan Number	: 890		
Retention Time (minutes)	: 7.374		
Quant Ion	: 129.00		
Area (flag)	: 1819412A		
On-Column Amount (ng/ul)	: 109.9886		
Integration start scan	: 883	Integration stop scan:	900
Y at integration start	: 282	Y at integration end:	280

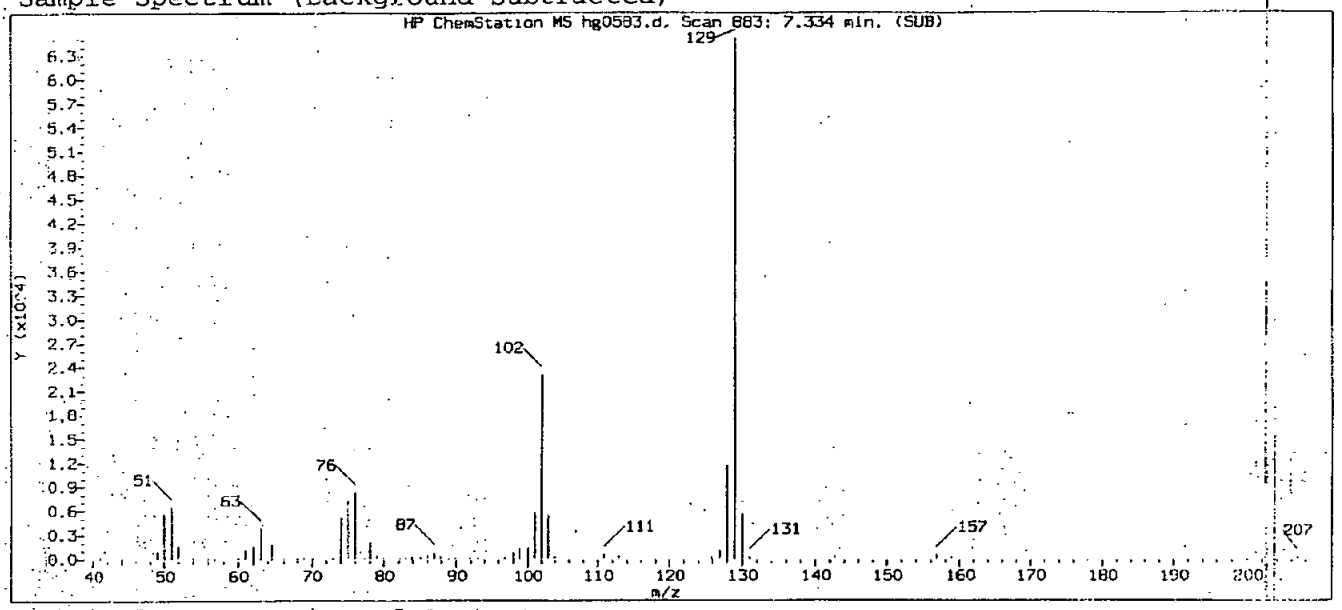
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20. Target 3.5 esignature user ID: jmg00346

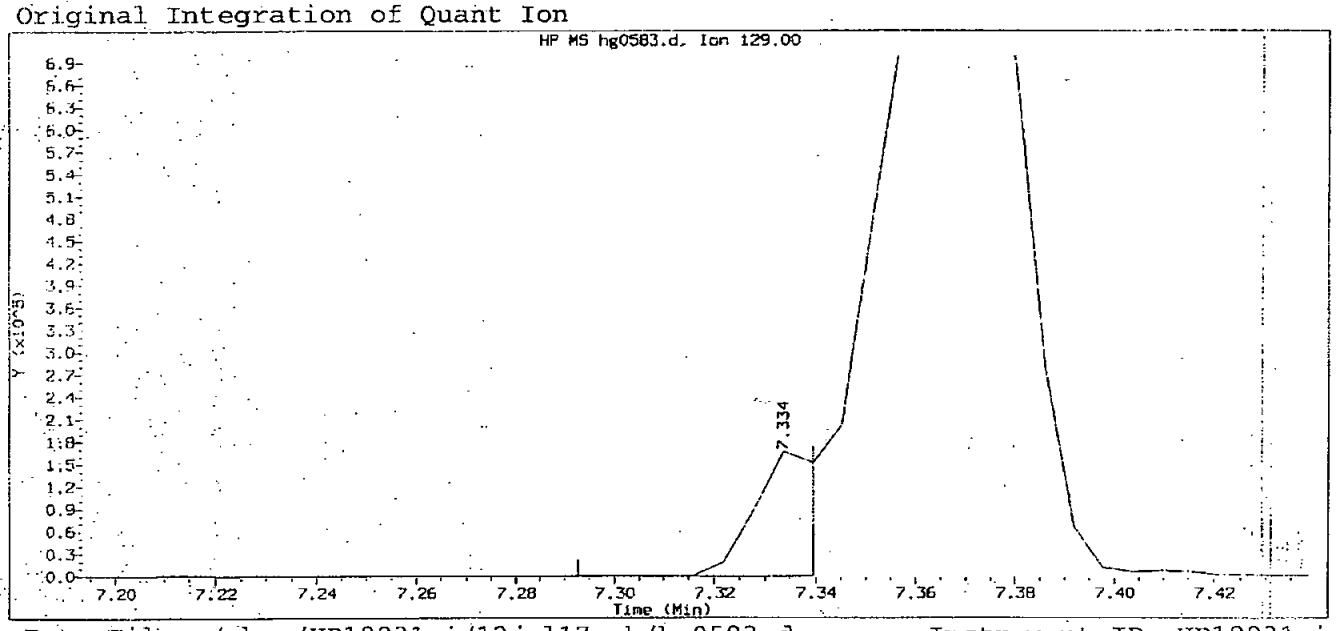
GC/MS audit/management approval: JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

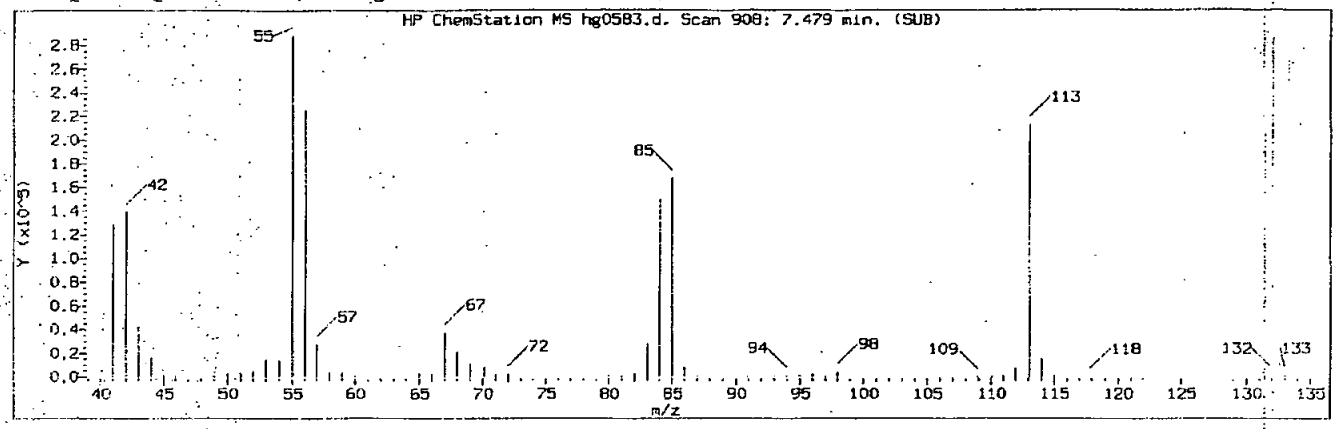
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 19:55
Date, time and analyst ID of latest file update: 17-Jul-2012 19:55 Automation

Sample Name: SSTD120 Lab Sample ID: STD1982

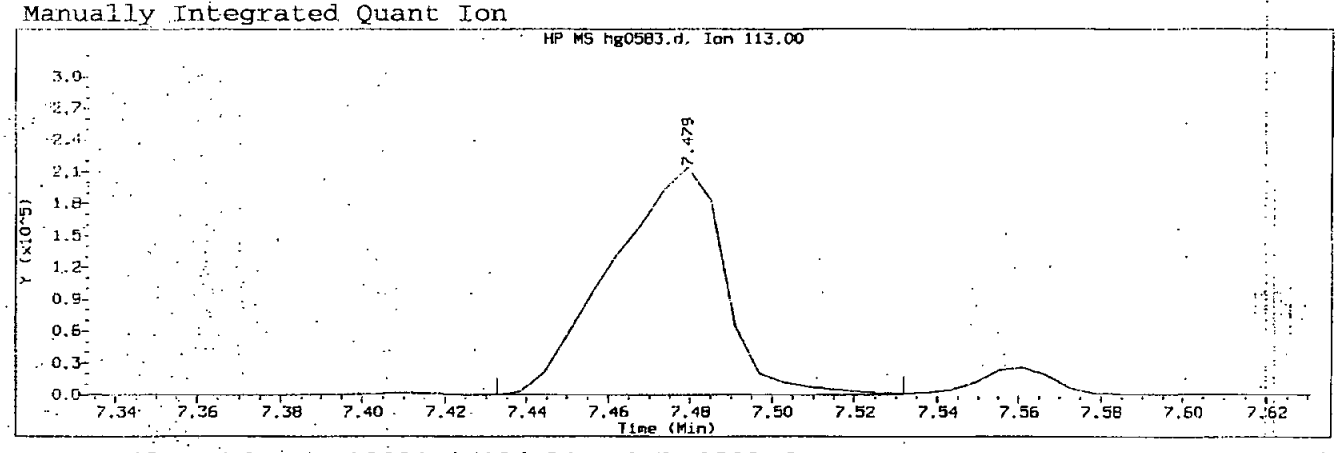
Compound Number	: 194		
Compound Name	: Quinoline		
Scan Number	: 883		
Retention Time (minutes)	: 7.334		
Quant Ion	: 129.00		
Area	: 121888		
On-column Amount (ng/ul)	: 9.0632		
Integration start scan	: 875	Integration stop scan:	883
Y at integration start	: 150	Y at integration end:	282

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1982

Compound Number	: 63		
Compound Name	: Caprolactam		
Scan Number	: 908		
Retention Time (minutes)	: 7.479		
Quant Ion	: 113.00		
Area (flag)	: 408062A		
On-Column Amount (ng/ul)	: 113.7234		
Integration start scan	: 899	Integration stop scan:	916
Y at integration start	: 0	Y at integration end:	48

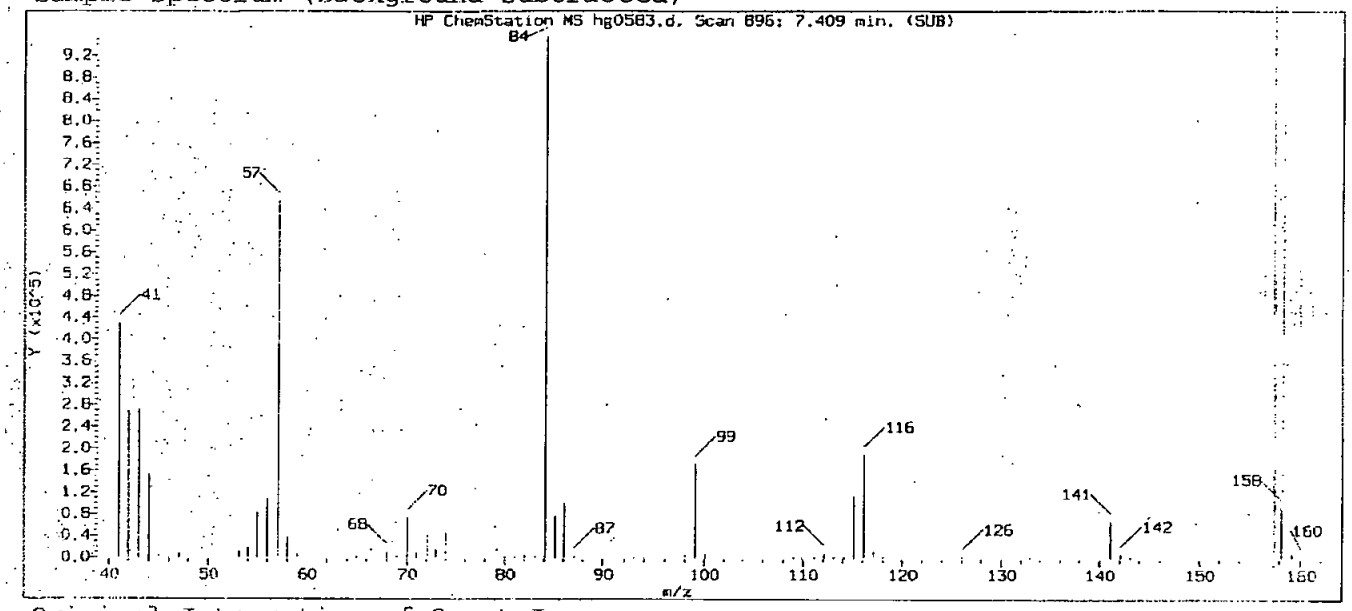
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20. Target 3.5 esignature user ID: jmg00346

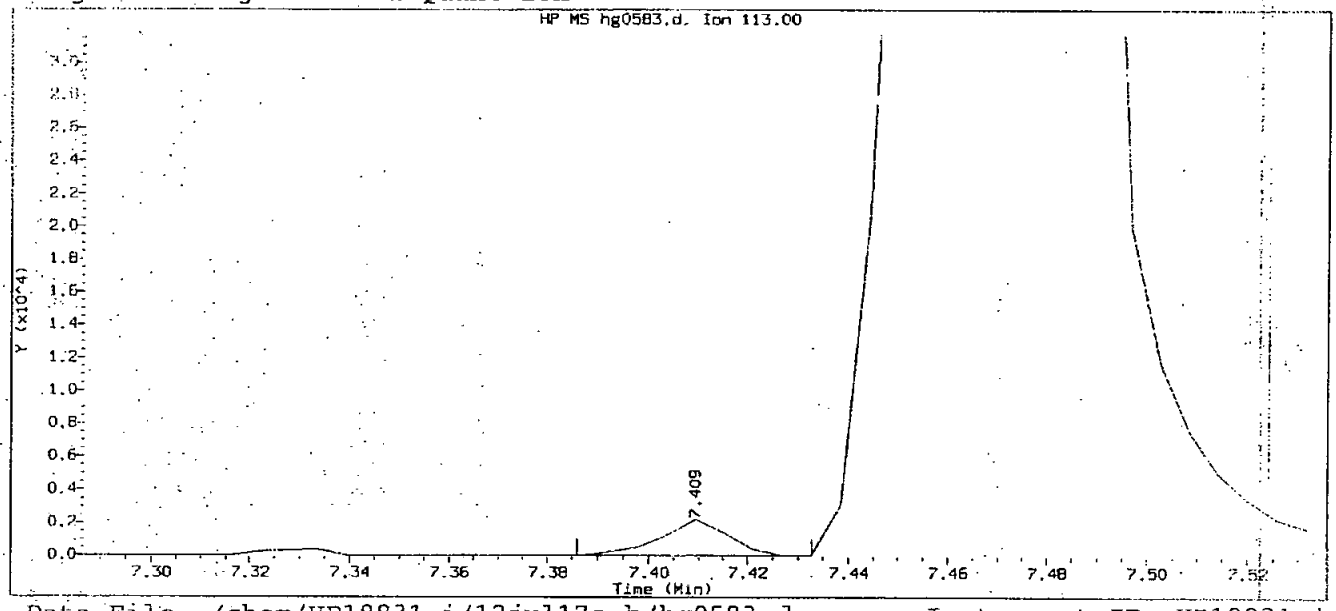
GC/MS audit/management approval: _____
JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

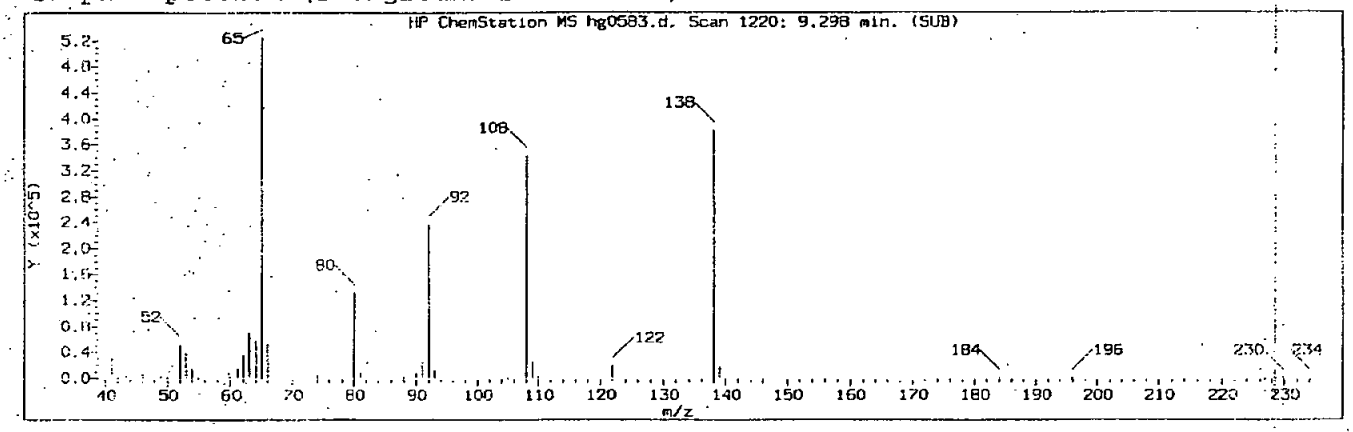
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 19:55
Date, time and analyst ID of latest file update: 17-Jul-2012 19:55 Automation

Sample Name: SSTD120 Lab Sample ID: STD1982

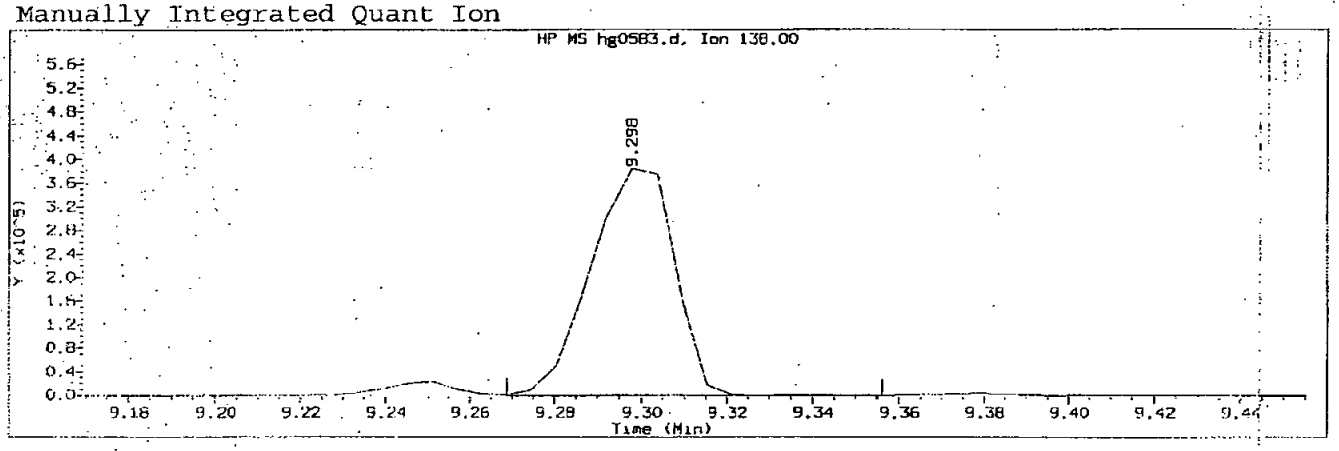
Compound Number	: 63		
Compound Name	: Caprolactam		
Scan Number	: 896		
Retention Time (minutes)	: 7.409		
Quant Ion	: 113.00		
Area	: 2079		
On-column Amount (ng/ul)	: 0.7773		
Integration start scan	: 891	Integration stop scan:	899
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



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Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1982

Compound Number	: 114		
Compound Name	: 4-Nitroaniline		
Scan Number	: 1220		
Retention Time (minutes)	: 9.298		
Quant Ion	: 138.00		
Area (flag)	: 511888A		
On-Column Amount (ng/ul)	: 113.9790		
Integration start scan	: 1214	Integration stop scan:	1229
Y at integration start	: 23	Y at integration end:	23

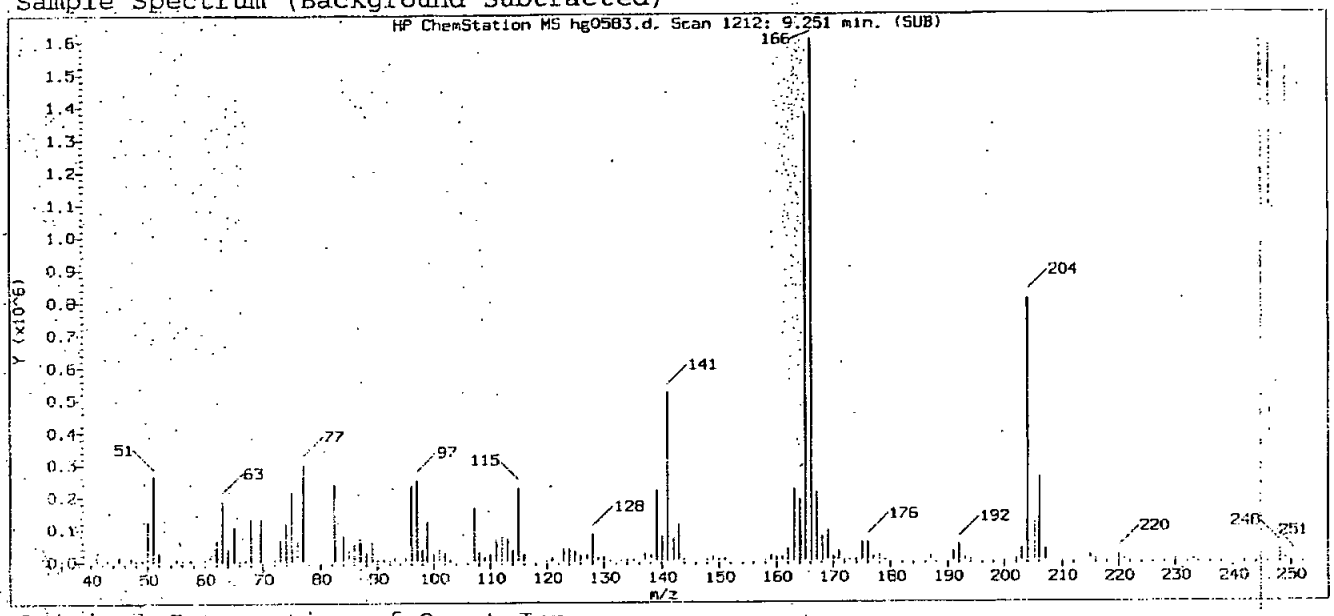
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20. Target 3.5 esignature user ID: jmg00346

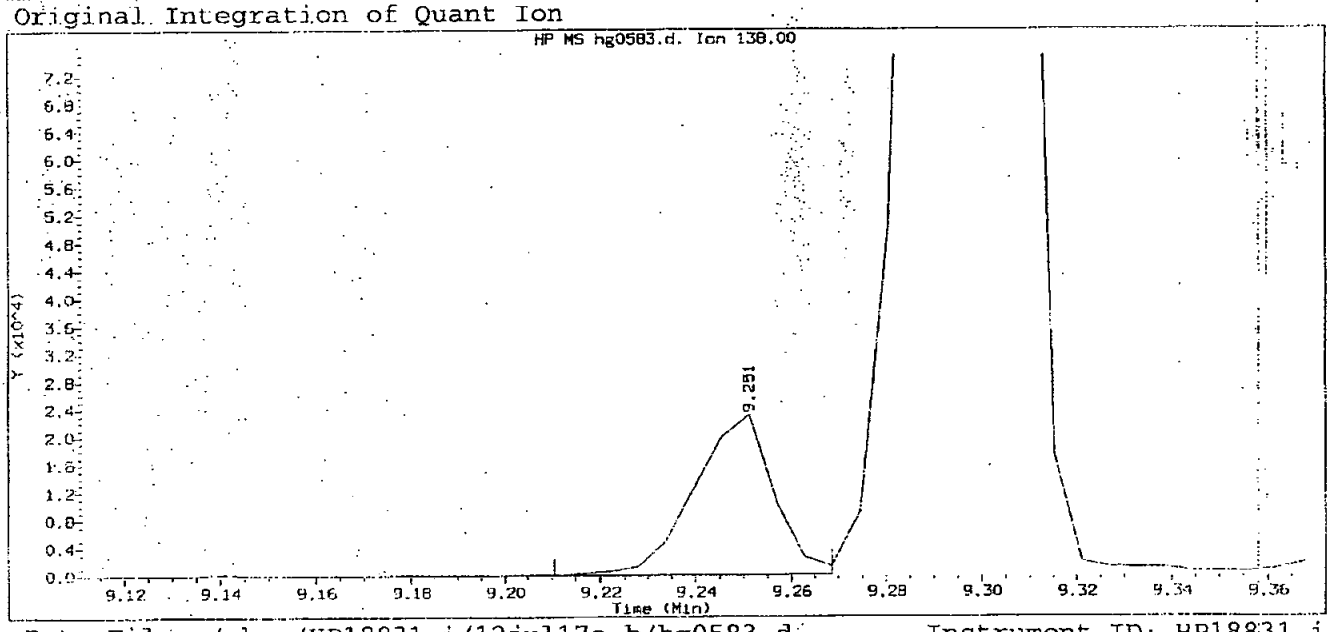
GC/MS audit/management approval: JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

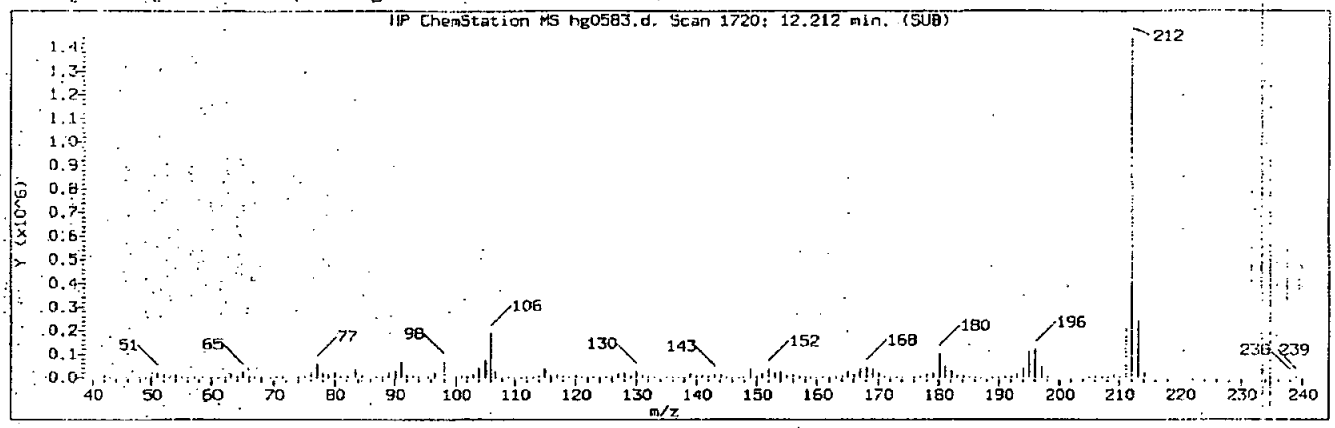
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 19:55
Date, time and analyst ID of latest file update: 17-Jul-2012 19:55 Automation

Sample Name: SSTD120 Lab Sample ID: STD1982

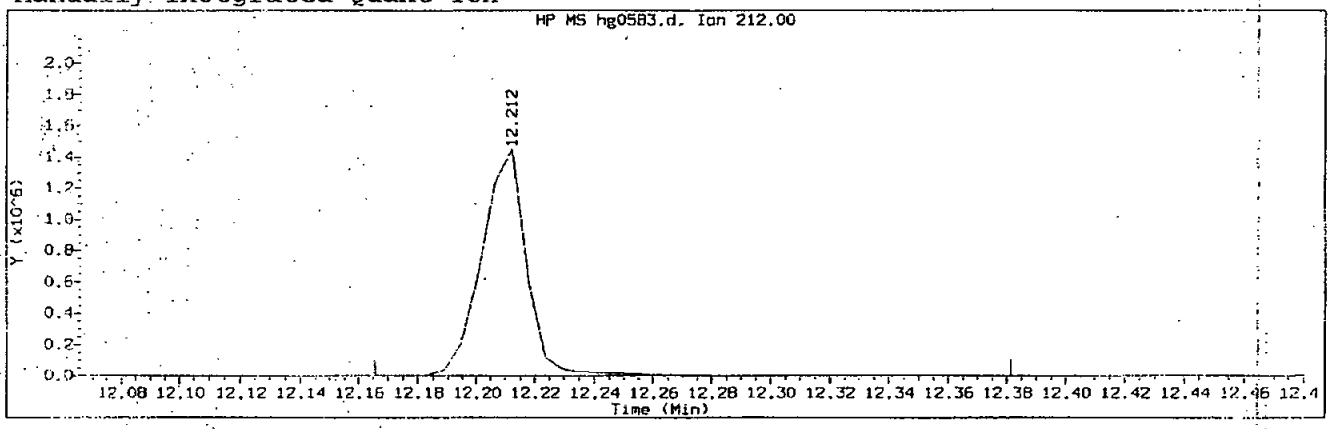
Compound Number	: 114		
Compound Name	: 4-Nitroaniline		
Scan Number	: 1212		
Retention Time (minutes)	: 9.251		
Quant Ion	: 138.00		
Area	: 26466		
On-column Amount (ng/ul)	: 6.3382		
Integration start scan	: 1204	Integration stop scan:	1214
Y at integration start	: 0	Y at integration end:	23

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1982

Compound Number	: 160		
Compound Name	: 3,3'-Dimethylbenzidine		
Scan Number	: 1720		
Retention Time (minutes)	: 12.212		
Quant Ion	: 212.00		
Area (flag)	: 1564128M		
On-Column Amount (ng/ul)	: 122.6616		
Integration start scan	: 1711	Integration stop scan:	1748
Y at integration start	: 131	Y at integration end:	131

Reason for manual integration: improper integration

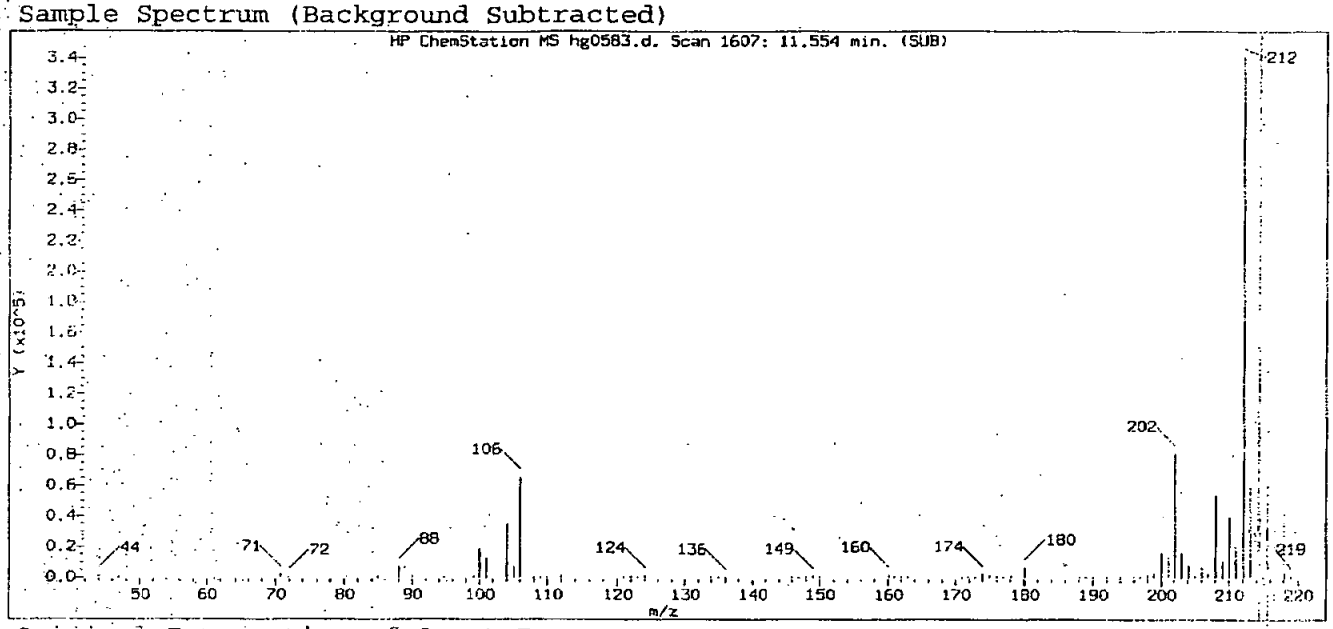
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

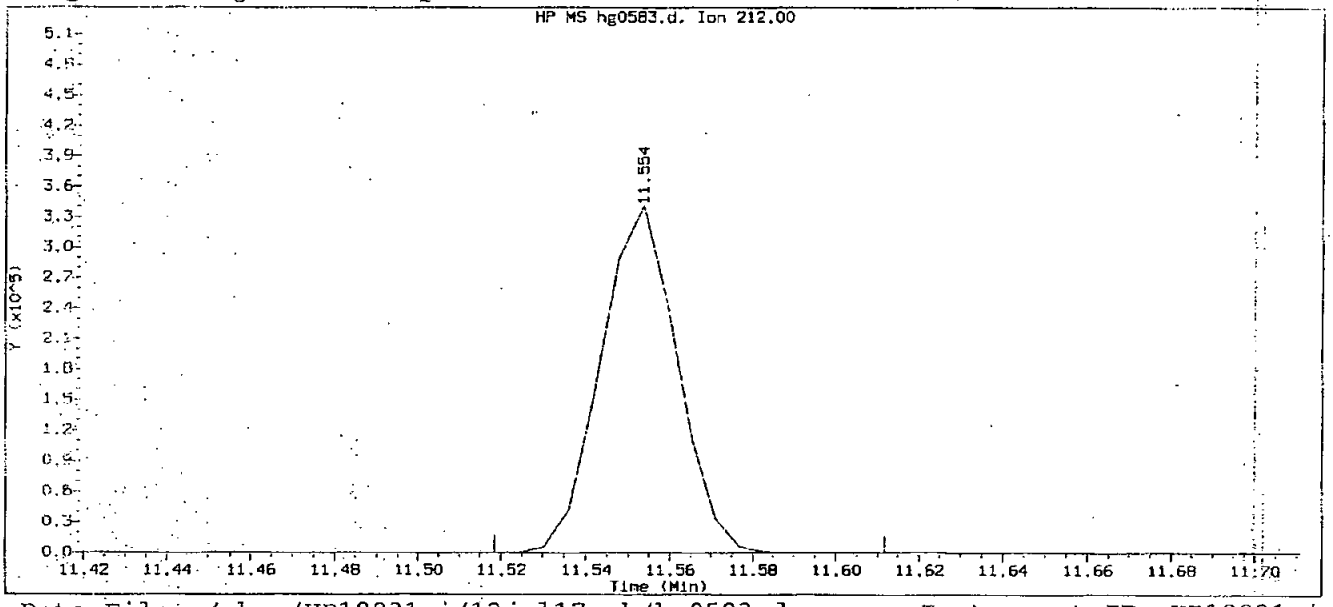
Matthew E. Barton
Senior Specialist

ASX73 0788

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

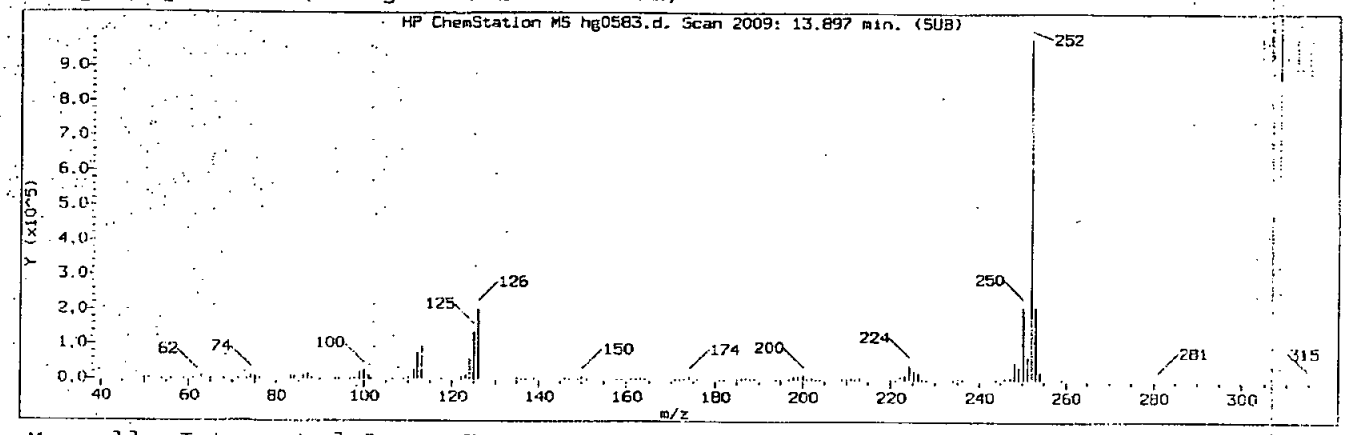
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 19:55
Date, time and analyst ID of latest file update: 17-Jul-2012 19:55 Automation

Sample Name: SSTD120 Lab Sample ID: STD1982

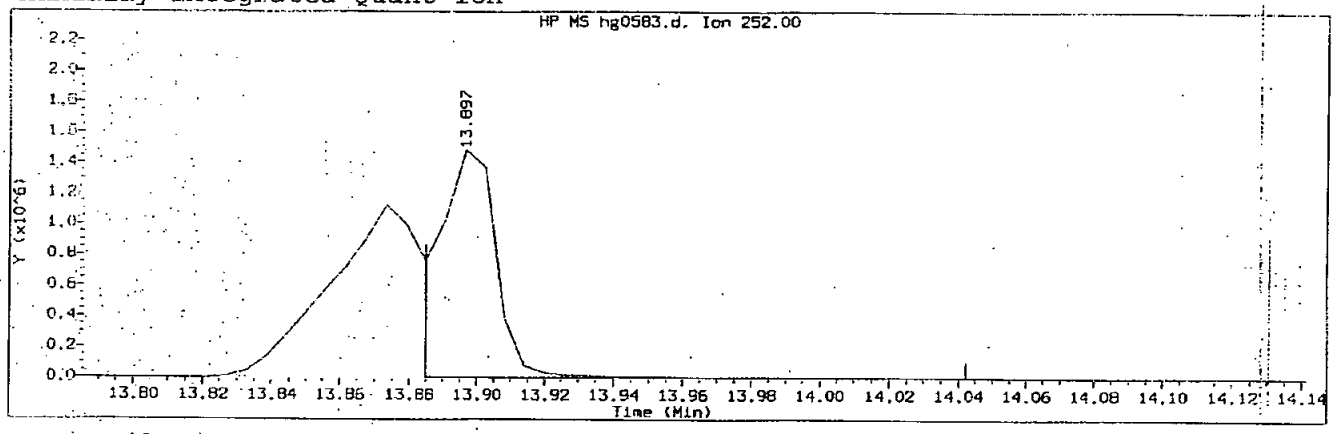
Compound Number	: 160	
Compound Name	: 3,3'-Dimethylbenzidine	
Scan Number	: 1607	
Retention Time (minutes)	: 11.554	
Quant Ion	: 212.00	
Area	: 430939	
On-column Amount (ng/ul)	: 40.4246	
Integration start scan	: 1600	Integration stop scan: 1616
Y at integration start	: 0	Y at integration end: 0

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD120 Lab Sample ID: STD1982

Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	2009
Retention Time (minutes)	:	13.897
Quant Ion	:	252.00
Area (flag)	:	1695062A
On-Column Amount (ng/ul)	:	111.4659
Integration start scan	:	2006 Integration stop scan: 2033
Y at integration start	:	325 Y at integration end: 568

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20. Target 3.5 esignature user ID: jmg00346

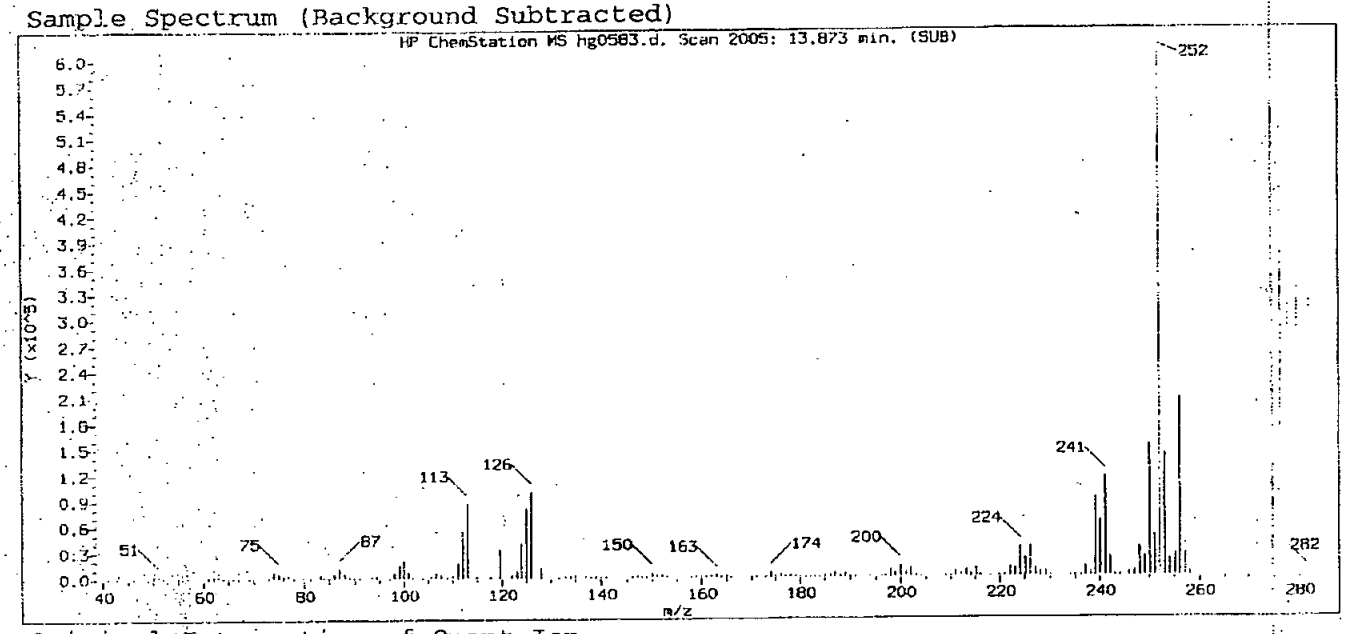
GC/MS audit/management approval: _____

JUL 18 2012

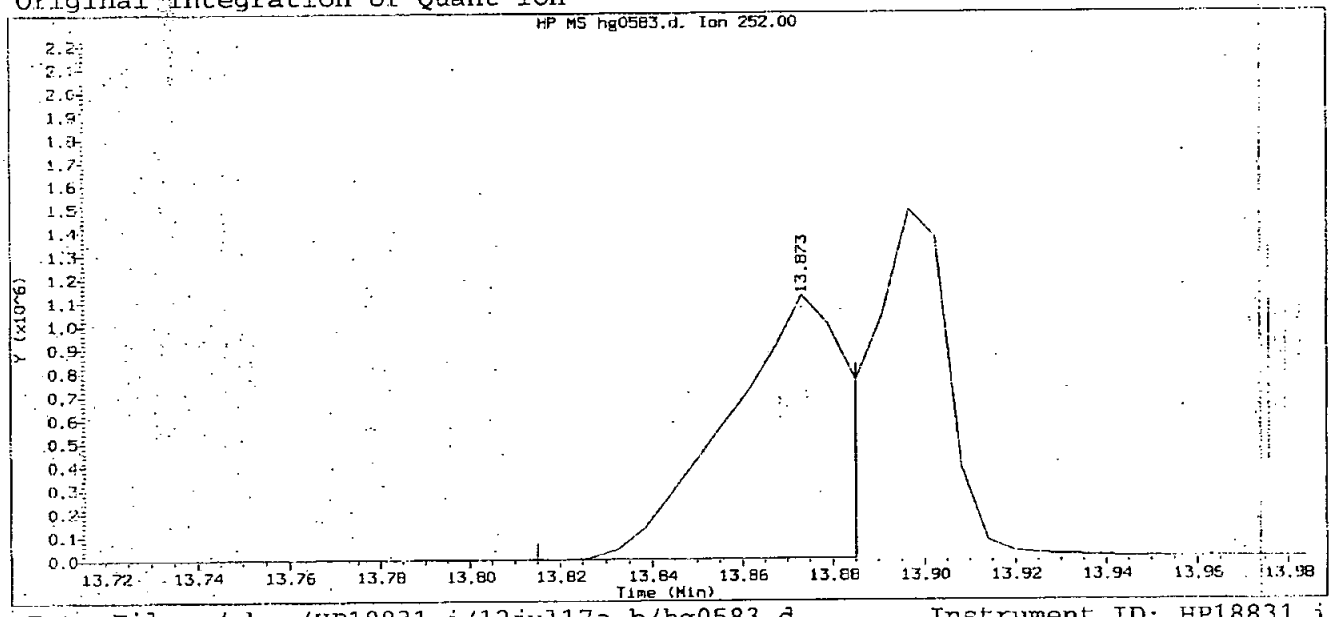
Matthew E. Barton
Senior Specialist

ASX73 0719

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



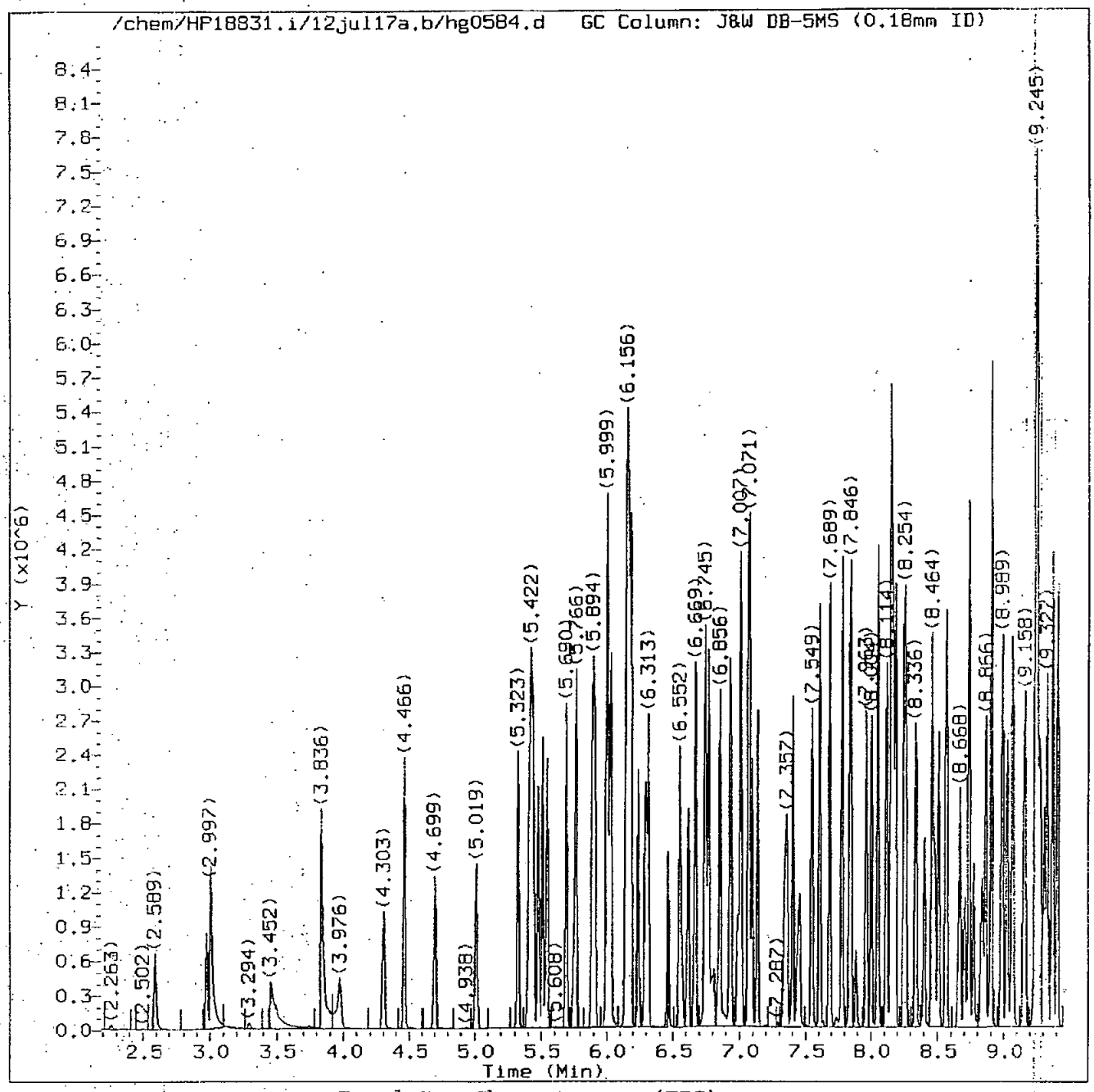
Data File: /chem/HP18831.i/12jul17a.b/hg0583.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 19:37 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 19:55
Date, time and analyst ID of latest file update: 17-Jul-2012 19:55 Automation

Sample Name: SSTD120 Lab Sample ID: STD1982

Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	2005
Retention Time (minutes)	:	13.873
Quant Ion	:	252.00
Area	:	1951148
On-column Amount (ng/ul)	:	137.9869
Integration start scan	:	1994 Integration stop scan: 2006
Y at integration start	:	0 Y at integration end: 325

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346



Total Ion Chromatogram (TIC)

Target Revision 3.5

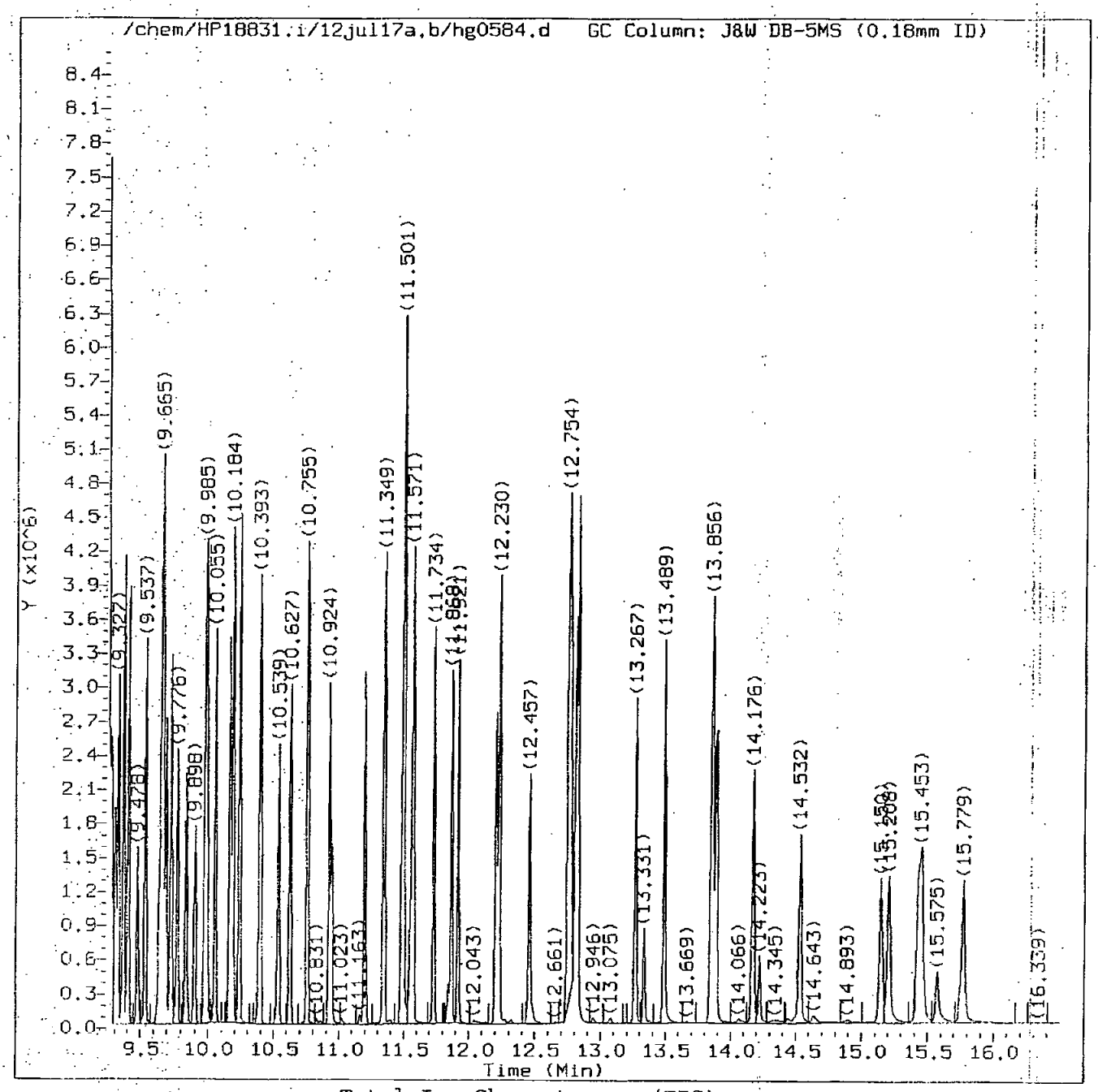
Data File: /chem/HP18831.i/12jul17a.b/hg0584.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:00 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:20.
Target 3.5 esignature user ID: jmg00346

ASX73 0712



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0584.d
Injection date and time: 17-JUL-2012 20:00

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD080

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0584.d
Injection date and time: 17-JUL-2012 20:00

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD080

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.589	88	310481	79.238
2) N-Nitrosodimethylamine	(1)	2.974	74	547081	84.822
3) Pyridine	(1)	3.003	79	958325	89.113
5) 2-Picoline	(1)	3.836	93	888950	80.112
6) N-Nitrosomethylethylamine	(1)	3.976	88	413986	81.335
7) Methyl methanesulfonate	(1)	4.303	80	461196	79.423
9) $2-Fluorophenol	(1)	4.466	112	676586	79.768
10) N-Nitrosodiethylamine	(1)	4.705	102	395329	81.431
11) Ethyl methanesulfonate	(1)	5.019	109	372365	80.380
12) Benzaldehyde	(1)	5.323	77	580878	71.151
14) $Phenol-d5	(1)	5.404	99	958518	79.790
15) $Phenol-d6	(1)	5.404	99	958518	79.790
16) Phenol	(1)	5.422	94	1135915	79.969
13) Aniline	(1)	5.433	93	1292140	79.145
18) bis(2-Chloroethyl)ether	(1)	5.509	93	852841	80.675
19) 2-Chlorophenol	(1)	5.544	128	642175	81.627
20) 1,3-Dichlorobenzene	(1)	5.690	146	627235	79.036
21) *1,4-Dichlorobenzene-d4	(1)	5.748	152	100662	20.000
22) 1,4-Dichlorobenzene	(1)	5.766	146	641243	79.137
24) Benzyl alcohol	(1)	5.894	108	526102	77.100
25) 1,2-Dichlorobenzene	(1)	5.911	146	596616	79.109
206) Indene	(1)	5.999	115	1084904	75.960
26) 2-Methylphenol	(1)	6.005	108	718539M	79.206
28) bis(2-Chloroisopropyl)ether	(1)	6.028	45	945997	76.418
27) 2,2'-oxybis(1-Chloropropane)	(1)	6.028	45	945997	76.418
29) N-Nitrosopyrrolidine	(1)	6.144	100	400491	81.240
30) Acetophenone	(1)	6.150	105	1017390	73.606
33) 4-Methylphenol	(1)	6.162	108	797349	81.139
31) N-Nitroso-di-n-propylamine	(1)	6.174	70	642402	76.960
32) N-Nitrosomorpholine	(1)	6.185	56	440239	74.793
34) o-Toluidine	(1)	6.185	106	1113408	76.285
37) Hexachloroethane	(1)	6.238	117	281162	78.470
38) $Nitrobenzene-d5	(2)	6.296	82	910368	80.760
39) Nitrobenzene	(2)	6.313	77	956913	81.542
40) N-Nitrosopiperidine	(2)	6.465	114	359050	80.601
41) Isophorone	(2)	6.552	82	1766943	80.187
42) 2-Nitrophenol	(2)	6.617	139	344489	83.093
44) 2,4-Dimethylphenol	(2)	6.669	107	779249	79.943
45) O,O,O-triethylphosphorothioate	(2)	6.745	198	298341	77.600
46) bis(2-Chloroethoxy)methane	(2)	6.768	93	963068	72.598

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346

ASX73 0714

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0584.d
Injection date and time: 17-JUL-2012 20:00

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD080

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
47) Benzoic acid	(2)	6.809	105	603774M	80.338
49) 2,4-Dichlorophenol	(2)	6.856	162	494414	79.085
50) 1,2,4-Trichlorobenzene	(2)	6.931	180	548716	79.416
52) *Naphthalene-d8	(2)	6.984	136	409497	20.000
53) Naphthalene	(2)	7.007	128	1791415	76.783
56) 4-Chloroaniline	(2)	7.065	127	709840	74.896
57) 2,6-Dichlorophenol	(2)	7.071	162	462280	76.904
58) Hexachloropropene	(2)	7.094	213	340127	83.783
60) Hexachlorobutadiene	(2)	7.135	225	283289	79.226
194) Quinoline	(2)	7.357	129	1212590	79.639
64) N-Nitrosodi-n-butylamine	(2)	7.403	84	590656	78.359
63) Caprolactam	(2)	7.456	113	256216	77.576
68) 4-Chloro-3-methylphenol	(2)	7.549	107	684545	79.901
69) Safrole	(2)	7.607	162	465038	77.987
70) 2-Methylnaphthalene	(2)	7.689	142	1112706	78.097
71) 1-Methylnaphthalene	(2)	7.782	142	1071393	76.871
72) Hexachlorocyclopentadiene	(3)	7.841	237	250631	87.617
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.852	216	495089	79.997
74) cis-Isosafrole	(3)	7.887	162	88889	9.148
75) 2,4,6-Trichlorophenol	(3)	7.963	196	359269	83.270
77) 2,4,5-Trichlorophenol	(3)	8.004	196	390120	81.826
78) $2-Fluorobiphenyl	(3)	8.050	172	1244803	80.389
79) trans-Isosafrole	(3)	8.114	162	483324	71.714
80) Isosafrole	(3)	8.114	162	483324	80.577
83) 1,1'-Biphenyl	(3)	8.149	154	1392076	75.581
84) 2-Chloronaphthalene	(3)	8.167	162	991826	74.114
85) 1-Chloronaphthalene	(3)	8.184	162	1085575	81.653
88) Diphenyl ether	(3)	8.254	170	767057	78.235
89) 2-Nitroaniline	(3)	8.266	138	388573	84.076
90) 1,4-Naphthoquinone	(3)	8.336	158	446712	79.062
91) 1,4-Dinitrobenzene	(3)	8.406	168	211994	84.043
92) Dimethylphthalate	(3)	8.464	163	1222185	77.952
93) 1,3-Dinitrobenzene	(3)	8.476	168	244644	82.560
94) 2,6-Dinitrotoluene	(3)	8.511	165	294424	83.044
95) Acenaphthylene	(3)	8.569	152	1623421	79.918
97) 3-Nitroaniline	(3)	8.668	138	335790	82.905
98) *Acenaphthene-d10	(3)	8.703	164	232108	20.000
99) Acenaphthene	(3)	8.738	153	1089305	78.314
100) 2,4-Dinitrophenol	(3)	8.773	184	193509	89.582
103) 4-Nitrophenol	(3)	8.837	109	243149	86.761

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: jmg00346

ASX73 0715

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0584.d
Injection date and time: 17-JUL-2012 20:00

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD080

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.866	250	392803	78.878
104) Dibenzofuran	(3)	8.907	168	1519611	77.019
105) 2,4-Dinitrotoluene	(3)	8.907	165	364261	79.791
106) 1-Naphthylamine	(3)	8.989	143	1135145	80.087
107) 2,3,4,6-Tetrachlorophenol	(3)	9.024	232	286150	84.092
108) 2-Naphthylamine	(3)	9.065	143	1101621	78.732
109) Diethylphthalate	(3)	9.158	149	1269743	78.284
110) Thionazin	(3)	9.239	107	275945	82.799
111) Fluorene	(3)	9.245	166	1179652	74.800
112) 4-Chlorophenyl-phenylether	(3)	9.251	204	572471	75.249
113) 5-Nitro-o-toluidine	(3)	9.269	152	365072	80.749
114) 4-Nitroaniline	(3)	9.280	138	325518A	79.724
115) 4,6-Dinitro-2-methylphenol	(4)	9.304	198	233634	87.443
117) N-Nitrosodiphenylamine	(4)	9.368	169	1067479	80.996
202) NDPA as diphenylamine	(4)	9.368	169	1067479	80.270
118) 1,2-Diphenylhydrazine	(4)	9.408	77	1867695	81.374
119) $2,4,6-Tribromophenol	(3)	9.478	330	122920	82.861
120) Tetraethyldithiopyrophosphate	(4)	9.537	97	258153	80.221
121) 1,3,5-Trinitrobenzene	(4)	9.642	213	142568	78.680
122) Diallate (peak 1)	(4)	9.659	86	643109	60.460
123) Phorate	(4)	9.665	75	1170139	77.456
124) Phenacetin	(4)	9.694	108	780516	84.129
125) 4-Bromophenyl-phenylether	(4)	9.729	248	303916	80.914
126) Diallate (peak 2)	(4)	9.741	86	133643	20.516
127) Hexachlorobenzene	(4)	9.781	284	292509	79.447
128) Dimethoate	(4)	9.834	87	589296	78.238
130) Atrazine	(4)	9.904	200	187241	53.042
131) Pentachlorophenol	(4)	9.974	266	196716	83.139
132) Pentachloronitrobenzene	(4)	9.985	237	134920	79.873
133) 4-Aminobiphenyl	(4)	9.985	169	863213	69.630
134) Pronamide	(4)	10.055	173	537173	83.268
135) *Phenanthrene-d10	(4)	10.160	188	372765	20.000
136) Dinoseb	(4)	10.160	211	327179	78.464
137) Phenanthrene	(4)	10.184	178	1700759	79.189
138) Anthracene	(4)	10.236	178	1733092	81.663
140) Carbazole	(4)	10.393	167	1629855	80.547
141) Methyl parathion	(4)	10.539	109	430504	79.384
142) Di-n-butylphthalate	(4)	10.755	149	2075597	80.668
143) Parathion	(4)	10.924	109	290294	83.850
144) 4-Nitroquinoline-1-oxide	(4)	10.947	190	155891	79.929

A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346

ASX73 0716

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0584.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:00 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.198	193	200261	80.969
147) Fluoranthene	(4)	11.349	202	1718778	80.683
152) Benzidine	(5)	11.501	184	3204912	240.343
167) *Pyrene-d10	(5)	11.548	212	396902	20.000
154) Pyrene	(5)	11.571	202	1782529	78.252
156) $Terphenyl-d14	(5)	11.734	244	1057860	79.603
158) p-Dimethylaminoazobenzene	(5)	11.874	225	348888	86.559
159) Chlorobenzilate	(5)	11.921	139	548239	84.901
160) 3,3'-Dimethylbenzidine	(5)	12.206	212	1010240M	85.862
161) Butylbenzylphthalate	(5)	12.230	149	799146	80.852
162) 2-Acetylaminofluorene	(5)	12.457	181	630875	88.005
164) 3,3'-Dichlorobenzidine	(5)	12.748	252	488084	82.428
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.754	231	256294	85.348
166) Benzo(a)anthracene	(5)	12.772	228	1346494	80.541
168) Chrysene	(5)	12.807	228	1361376	80.791
169) bis(2-Ethylhexyl)phthalate	(5)	12.824	149	1043617	82.614
189) 6-Methylchrysene	(5)	13.267	242	924148	82.636
170) Di-n-octylphthalate	(6)	13.489	149	1747780	85.600
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.856	256	537671	82.540
172) Benzo(b)fluoranthene	(6)	13.862	252	1155177	80.171
173) Benzo(k)fluoranthene	(6)	13.891	252	1151984	80.774
174) Benzo(a)pyrene	(6)	14.176	252	1095761	84.806
175) *Perylene-d12	(6)	14.223	264	227715	20.000
176) 3-Methylcholanthrene	(6)	14.538	268	543668	85.927
190) Dibenz(a,h)acridine	(6)	15.150	279	812858	89.082
191) Dibenz(a,j)acridine	(6)	15.208	279	848200	85.856
177) Indeno(1,2,3-cd)pyrene	(6)	15.435	276	1110490	88.916
178) Dibenz(a,h)anthracene	(6)	15.459	278	879145	85.687
179) Benzo(g,h,i)perylene	(6)	15.779	276	939075	89.048
129) Diallate TRANS/CIS	(4)			776752	80.859

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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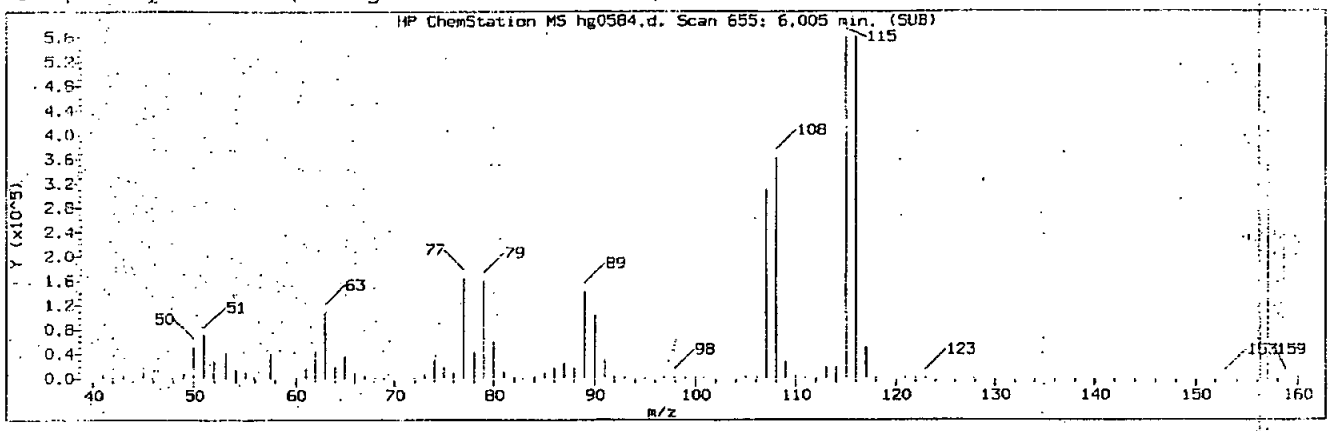
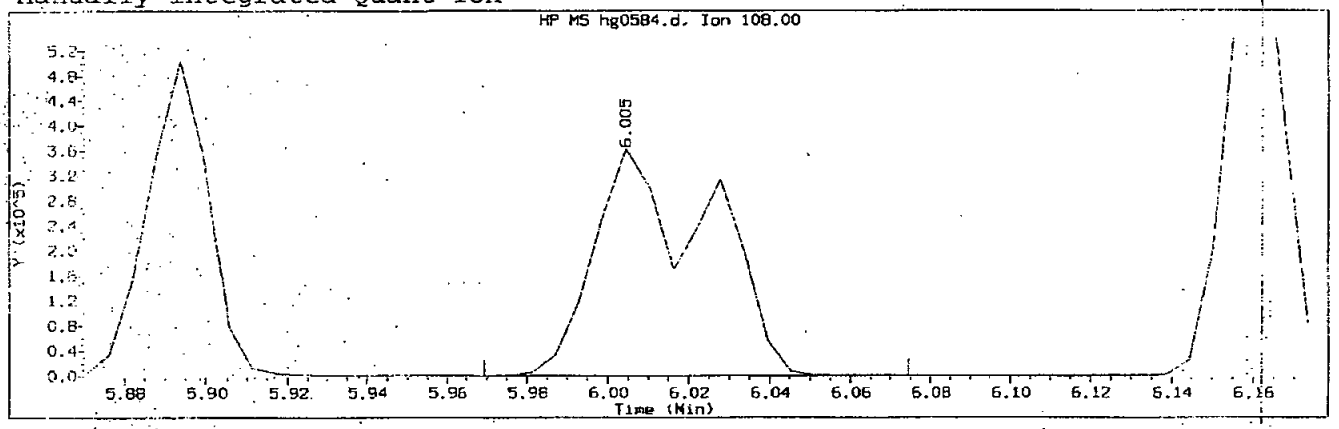
on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346

ASX73 0717

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0584.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:00 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1982

Compound Number : 26
Compound Name : 2-Methylphenol
Scan Number : 655
Retention Time (minutes) : 6.005
Quant Ion : 108.00
Area (flag) : 718539M
On-Column Amount (ng/ul) : 79.2065
Integration start scan : 648 Integration stop scan: 666
Y at integration start : 151 Y at integration end: 151

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:21. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

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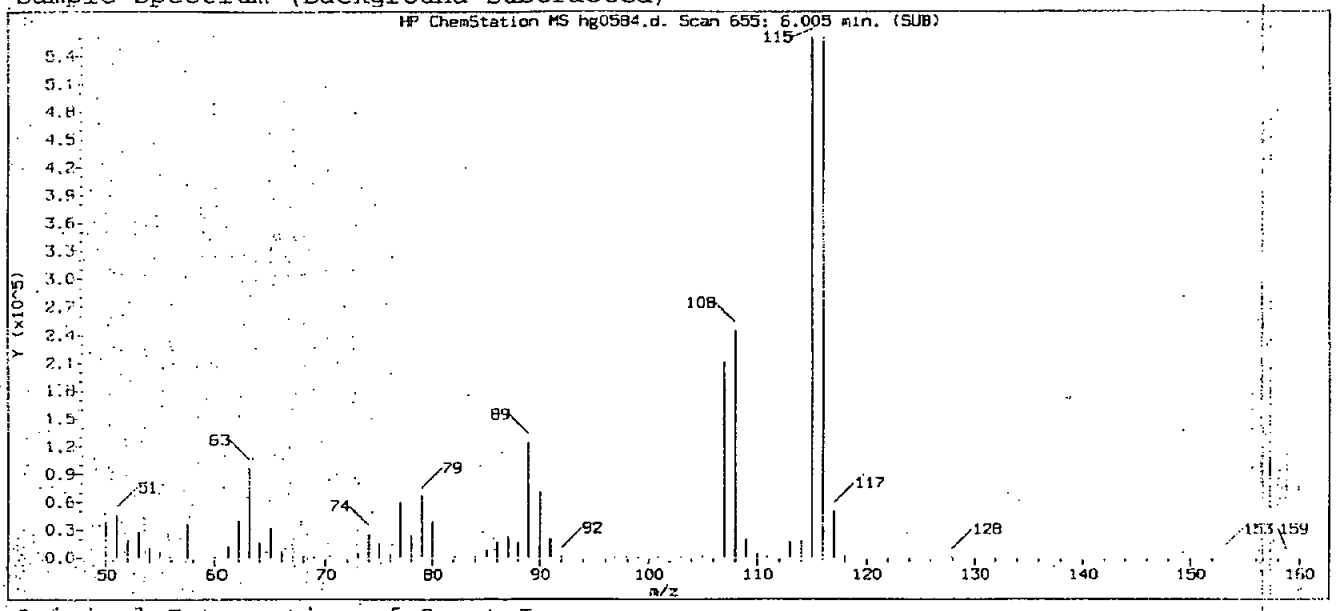
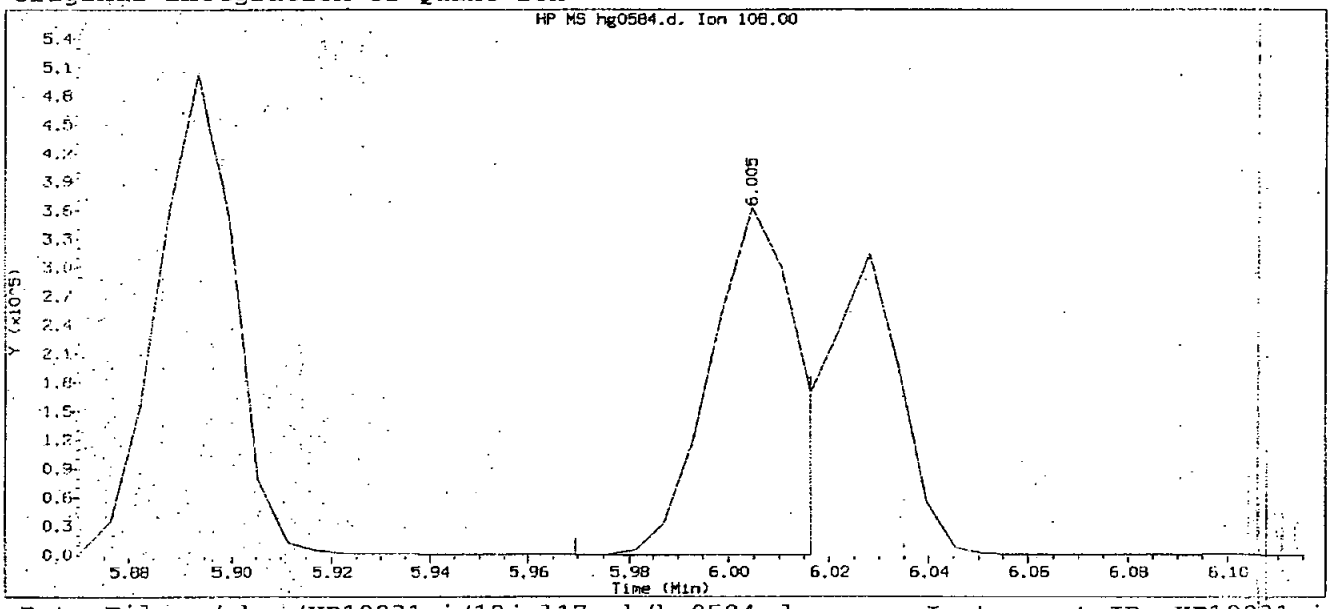
Senior Special...

ASX73 0718

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0584.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:00 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 20:18
Date, time and analyst ID of latest file update: 17-Jul-2012 20:18 Automation

Sample Name: SSTD080 Lab Sample ID: STD1982

Compound Number	: 26		
Compound Name	: 2-Methylphenol		
Scan Number	: 655		
Retention Time (minutes)	: 6.005		
Quant Ion	: 108.00		
Area	: 405010		
On-column Amount (ng/ul)	: 56.5465		
Integration start scan	: 648	Integration stop scan:	656
Y at integration start	: 0	Y at integration end:	0

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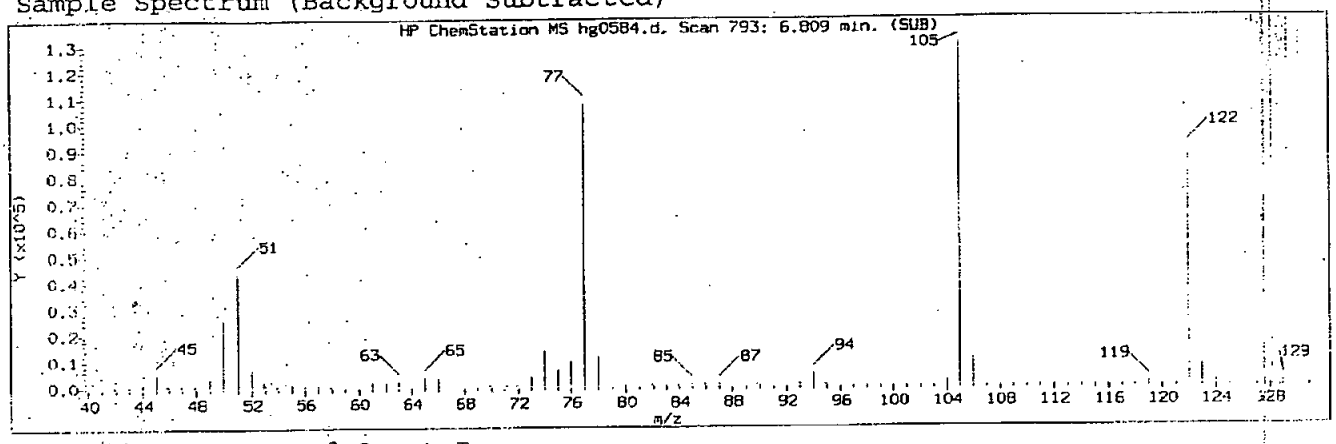
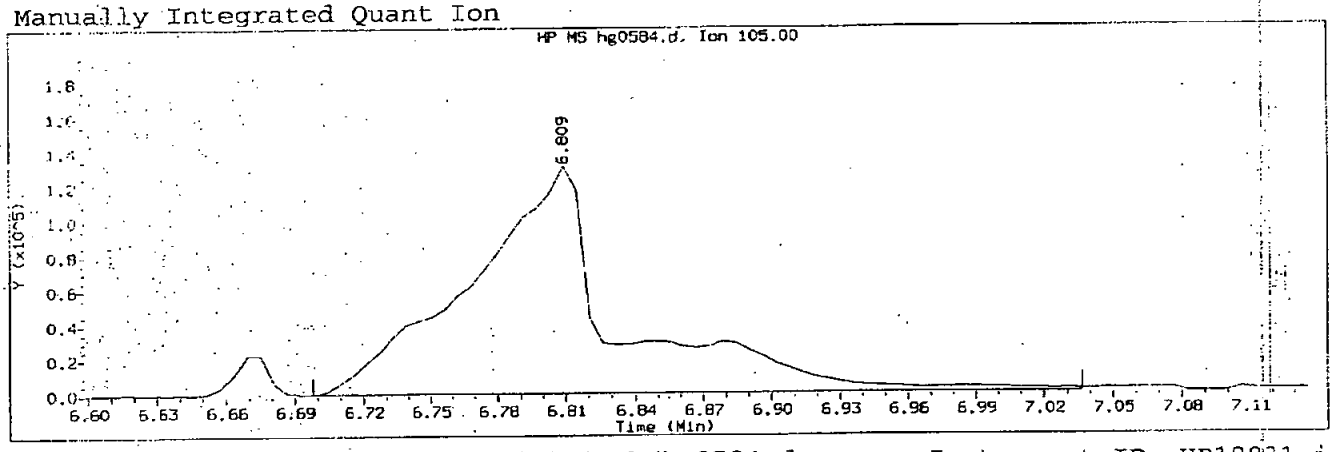
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0584.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:00 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1982

Compound Number	: 47		
Compound Name	: Benzoic acid		
Scan Number	: 793		
Retention Time (minutes)	: 6.809		
Quant Ion	: 105.00		
Area (flag)	: 603774M		
On-Column Amount (ng/ul)	: 80.3382		
Integration start scan	: 773	Integration stop scan:	831
Y at integration start	: 204	Y at integration end:	204

Reason for manual integration: improper integration

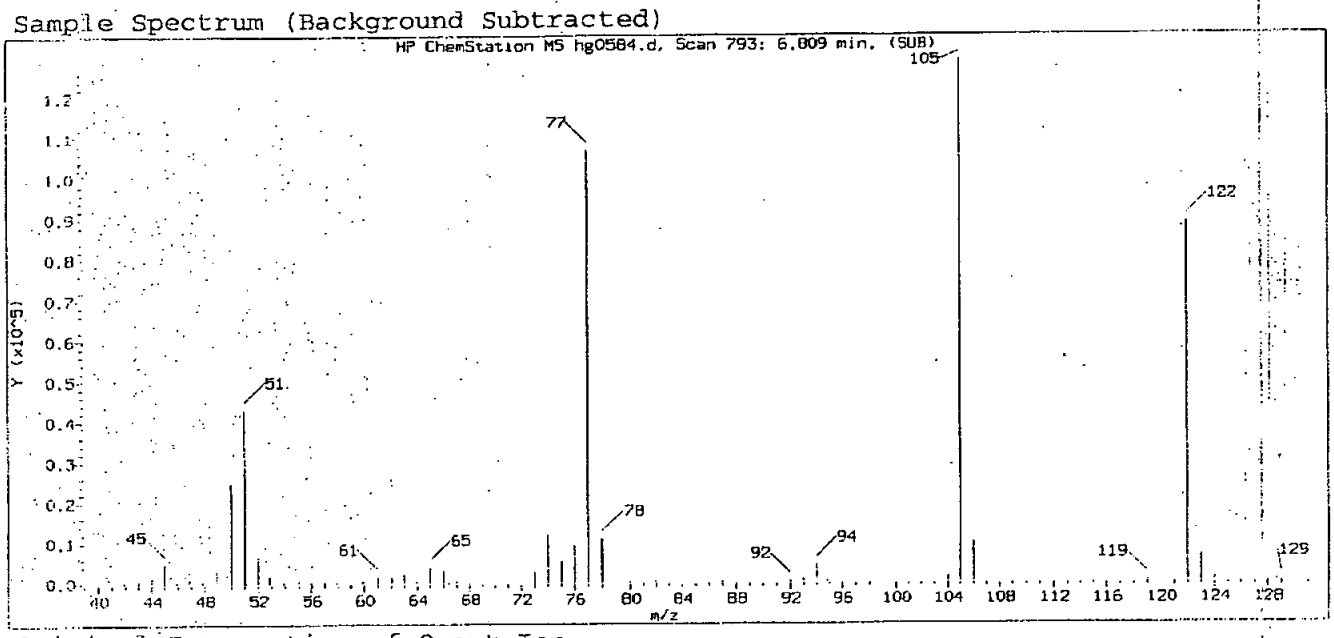
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:21. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

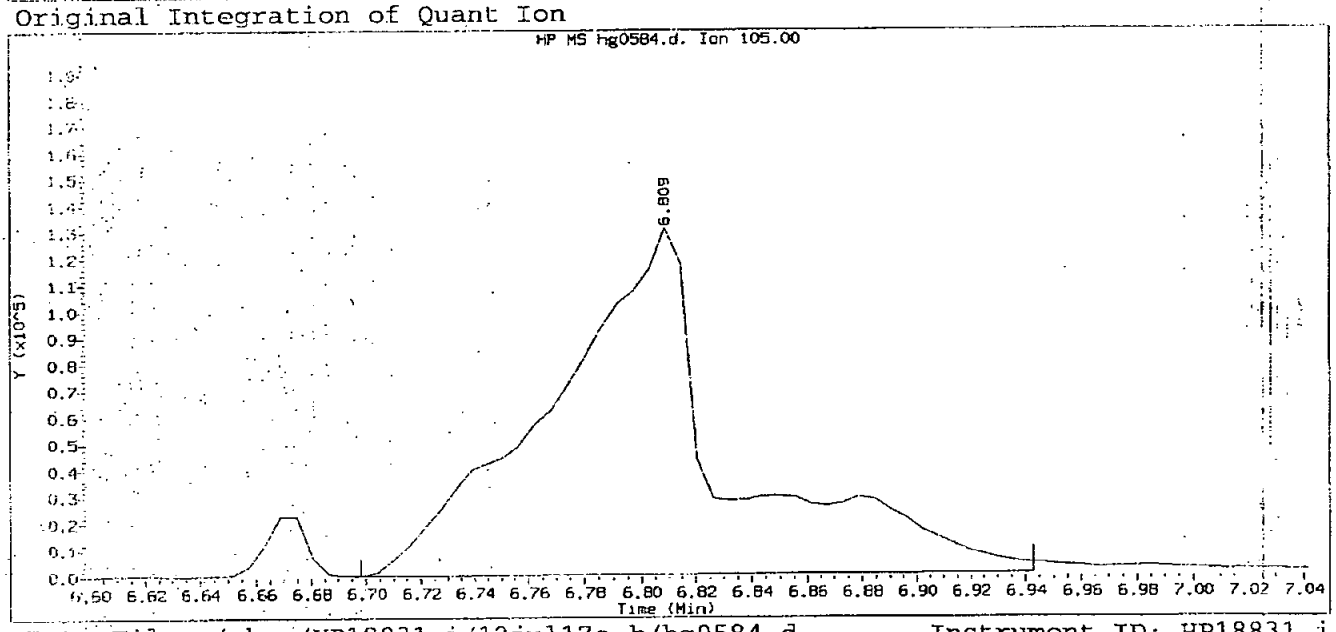
Matthew E. Barton
Senior Specialist

ASX73 0720

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0584.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:00 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 20:18
Date, time and analyst ID of latest file update: 17-Jul-2012 20:18 Automation

Sample Name: SSTD080 Lab Sample ID: STD1982

Compound Number	: 47		
Compound Name	: Benzoic acid		
Scan Number	: 793		
Retention Time (minutes)	: 6.809		
Quant Ion	: 105.00		
Area	: 583588		
On-column Amount (ng/ul)	: 121.2071		
Integration start scan	: 773	Integration stop scan:	815
Y at integration start	: 231	Y at integration end:	817

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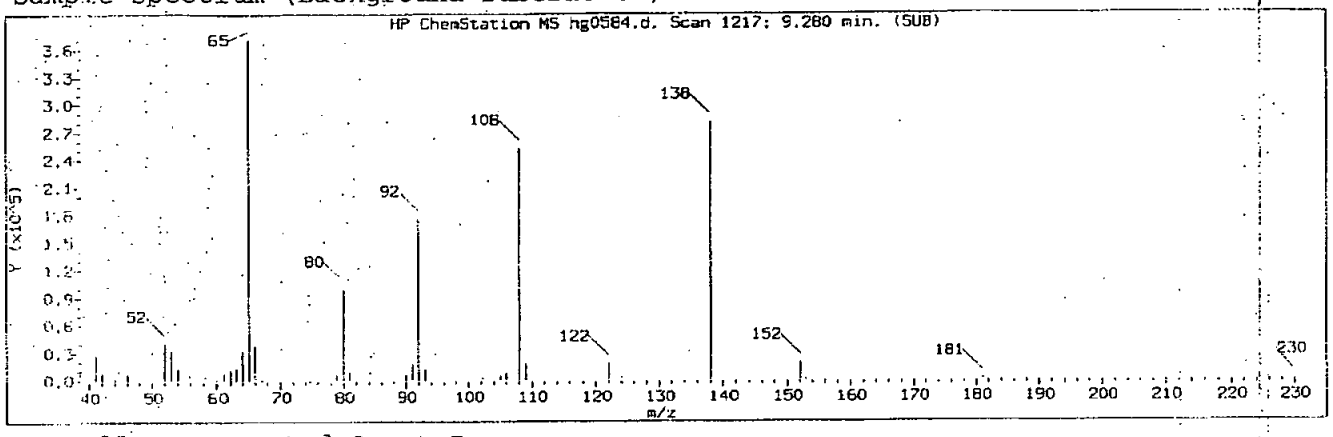
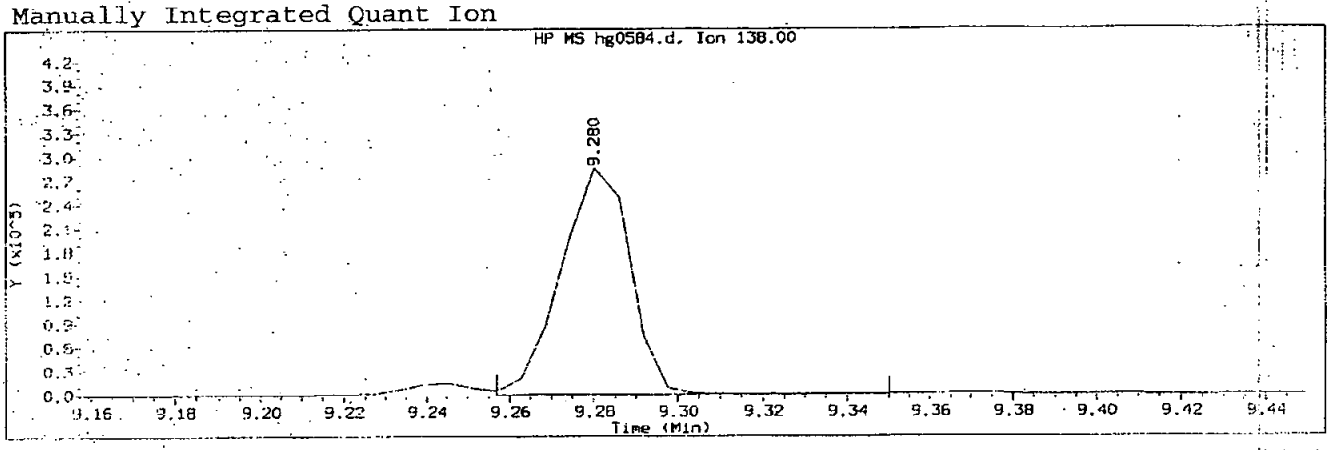
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0584.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:00 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1982

Compound Number	: 114		
Compound Name	: 4-Nitroaniline		
Scan Number	: 1217		
Retention Time (minutes)	: 9.280		
Quant Ion	: 138.00		
Area (flag)	: 325518A		
On-Column Amount (ng/ul)	: 79.7240		
Integration start scan	: 1212	Integration stop scan:	1228
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

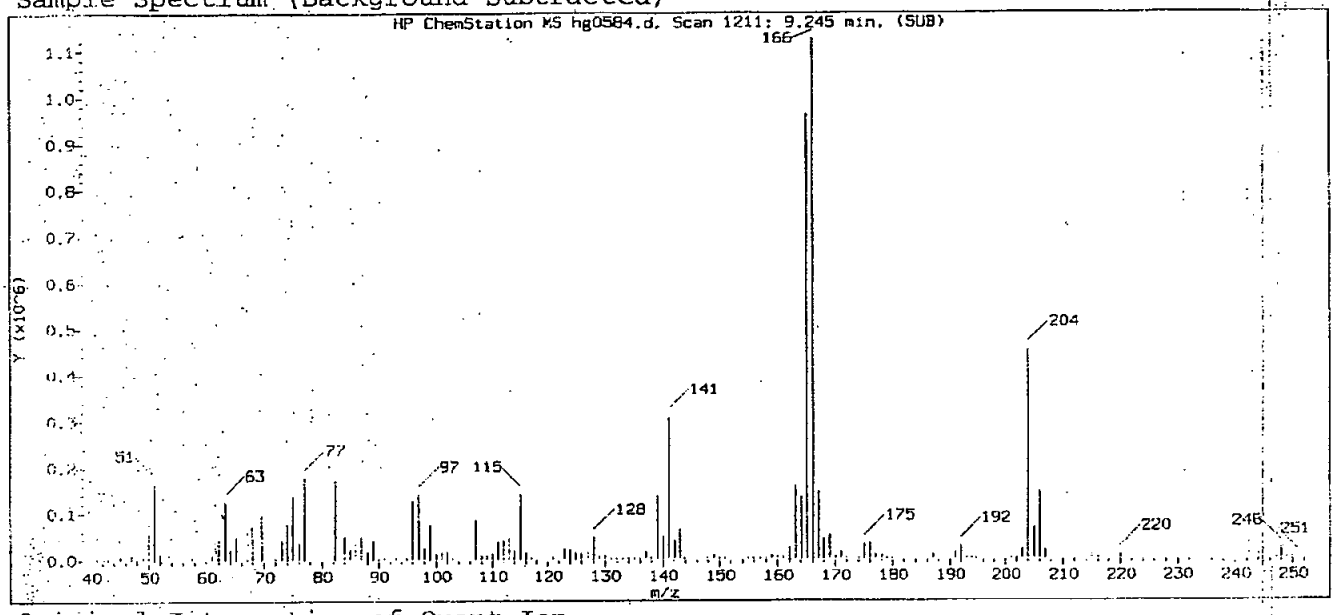
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:21. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

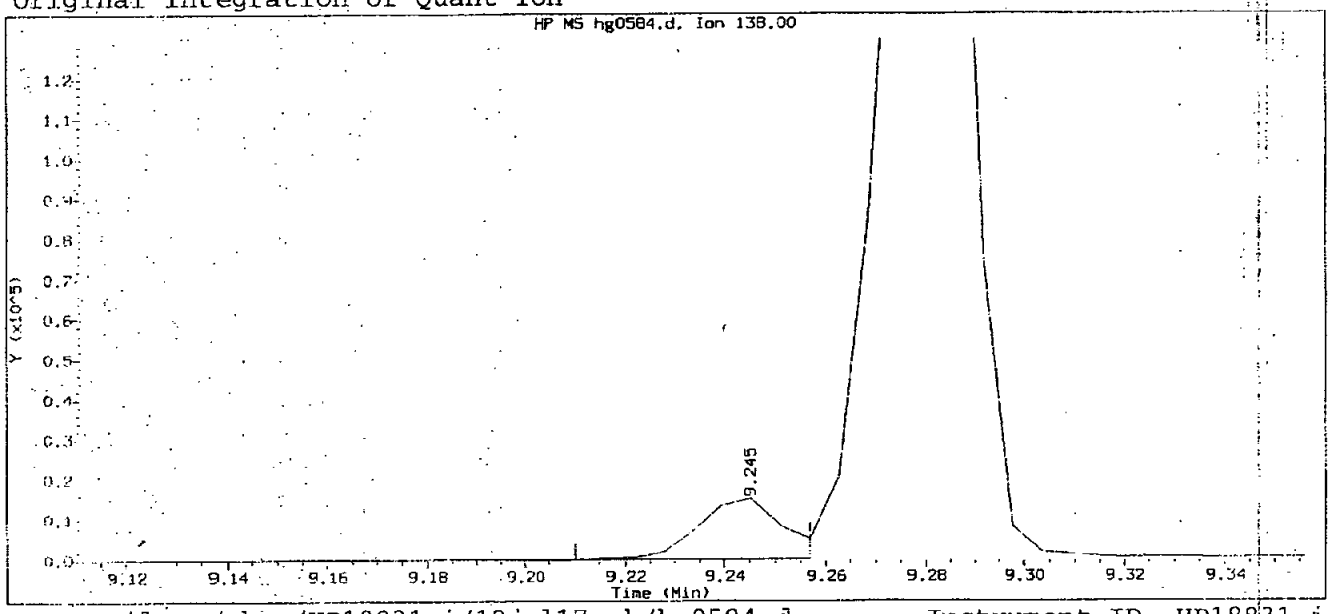
Matthew E. Barton
Senior Specialist

ASX73 8722

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0584.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:00 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 20:18
Date, time and analyst ID of latest file update: 17-Jul-2012 20:18 Automation

Sample Name: SSTD080 Lab Sample ID: STD1982

Compound Number	: 114		
Compound Name	: 4-Nitroaniline		
Scan Number	: 1211		
Retention Time (minutes)	: 9.245		
Quant Ion	: 138.00		
Area	: 17027		
On-column Amount (ng/ul)	: 5.3490		
Integration start scan	: 1204	Integration stop scan:	1212
Y at integration start	: 0	Y at integration end:	0

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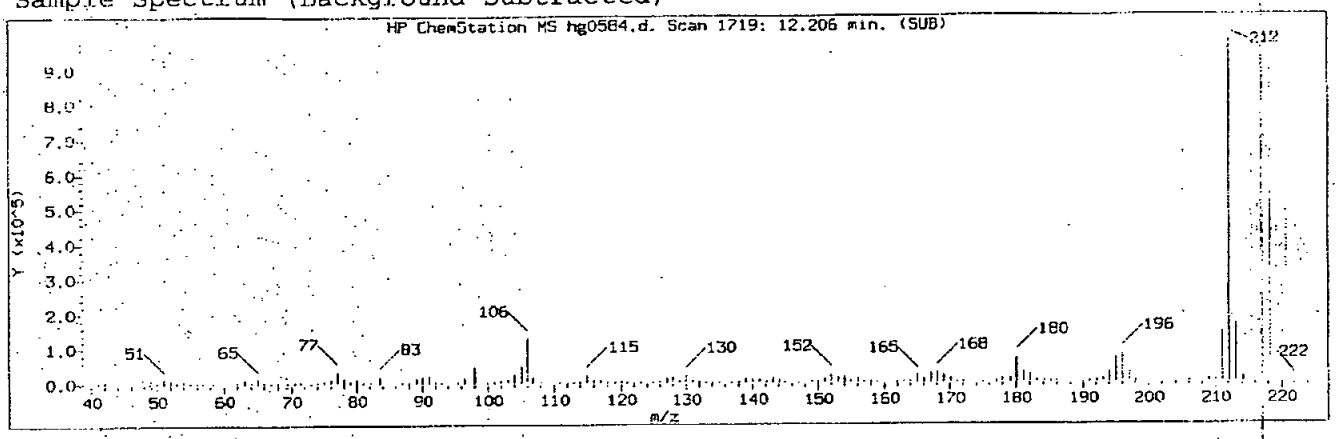
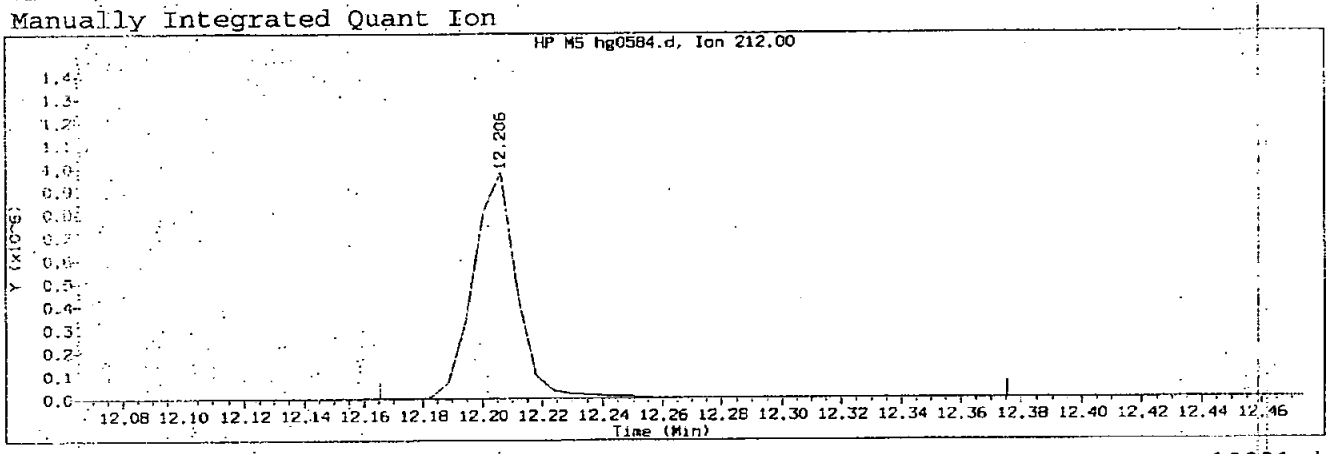
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0584.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:00 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD080 Lab Sample ID: STD1982

Compound Number	: 160		
Compound Name	: 3,3'-Dimethylbenzidine		
Scan Number	: 1719		
Retention Time (minutes)	: 12.206		
Quant Ion	: 212.00		
Area (flag)	: 1010240M		
On-Column Amount (ng/ul)	: 85.8617		
Integration start scan	: 1711	Integration stop scan:	1747
Y at integration start	: 117	Y at integration end:	117

Reason for manual integration: improper integration

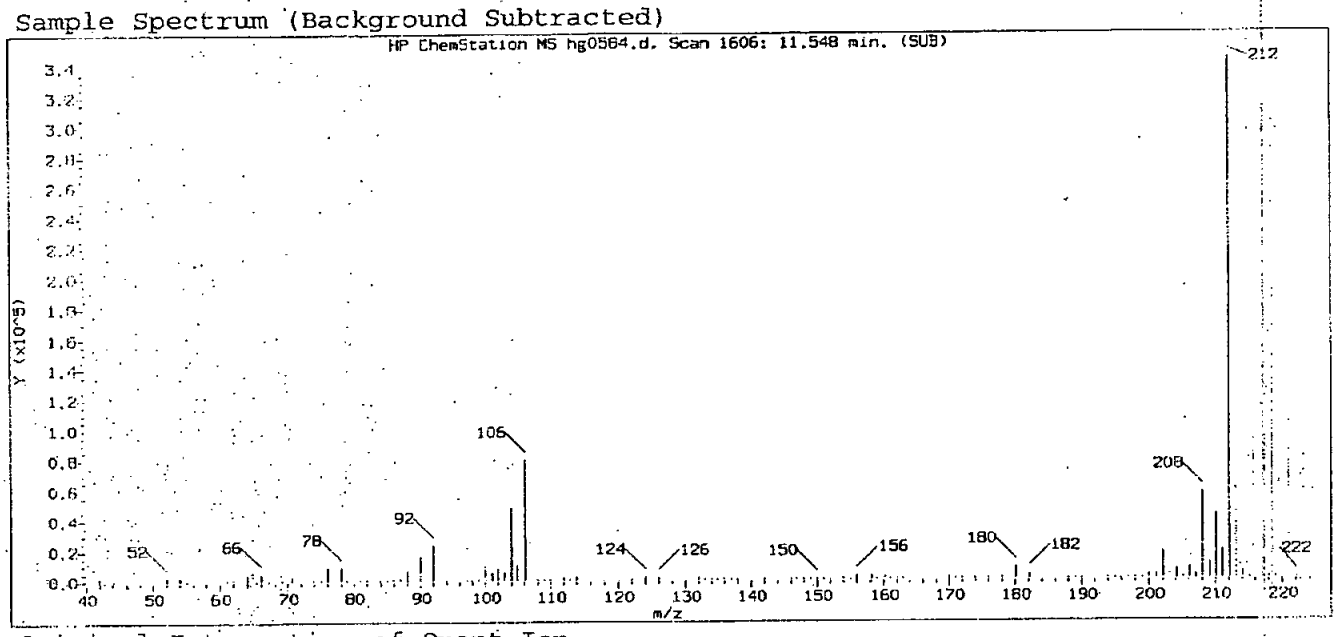
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:21. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

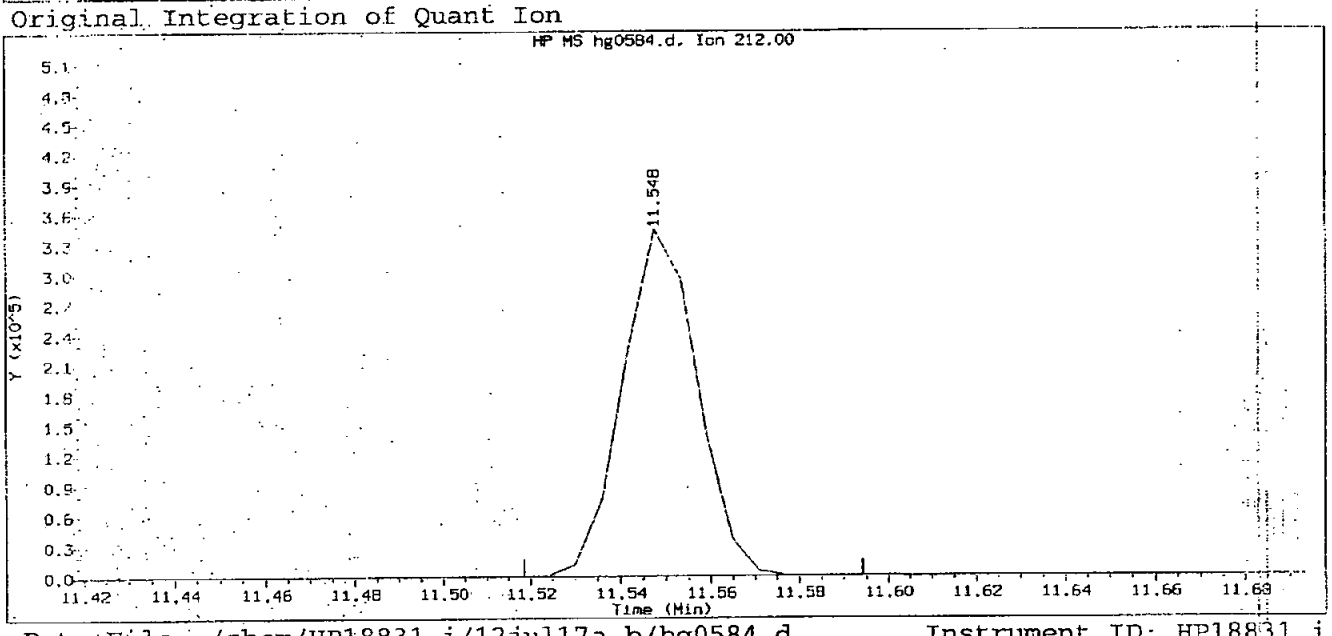
Matthew E. Barton
Senior Specialist

ASX73 0724

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0584.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:00 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 20:18
Date, time and analyst ID of latest file update: 17-Jul-2012 20:18 Automation

Sample Name: SSTD080 Lab Sample ID: STD1982

Compound Number	: 160		
Compound Name	: 3,3'-Dimethylbenzidine		
Scan Number	: 1606		
Retention Time (minutes)	: 11.548		
Quant Ion	: 212.00		
Area	: 397348		
On-column Amount (ng/ul)	: 45.1861		
Integration start scan	: 1600	Integration stop scan:	1613
Y at integration start	: 0	Y at integration end:	0

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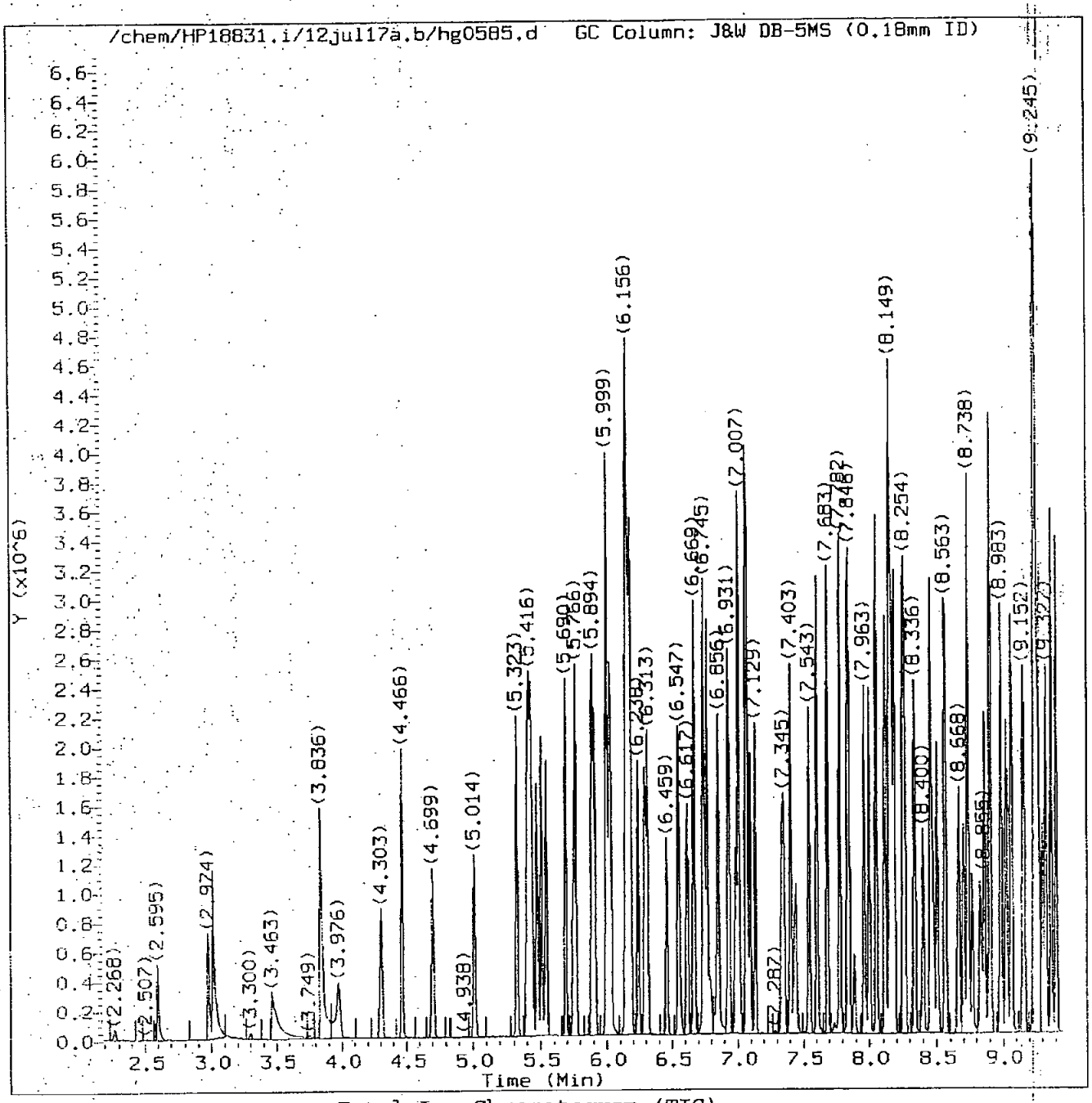
Target 3.5 esignature user ID: jmg00346



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0585.d
Injection date and time: 17-JUL-2012 20:23

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

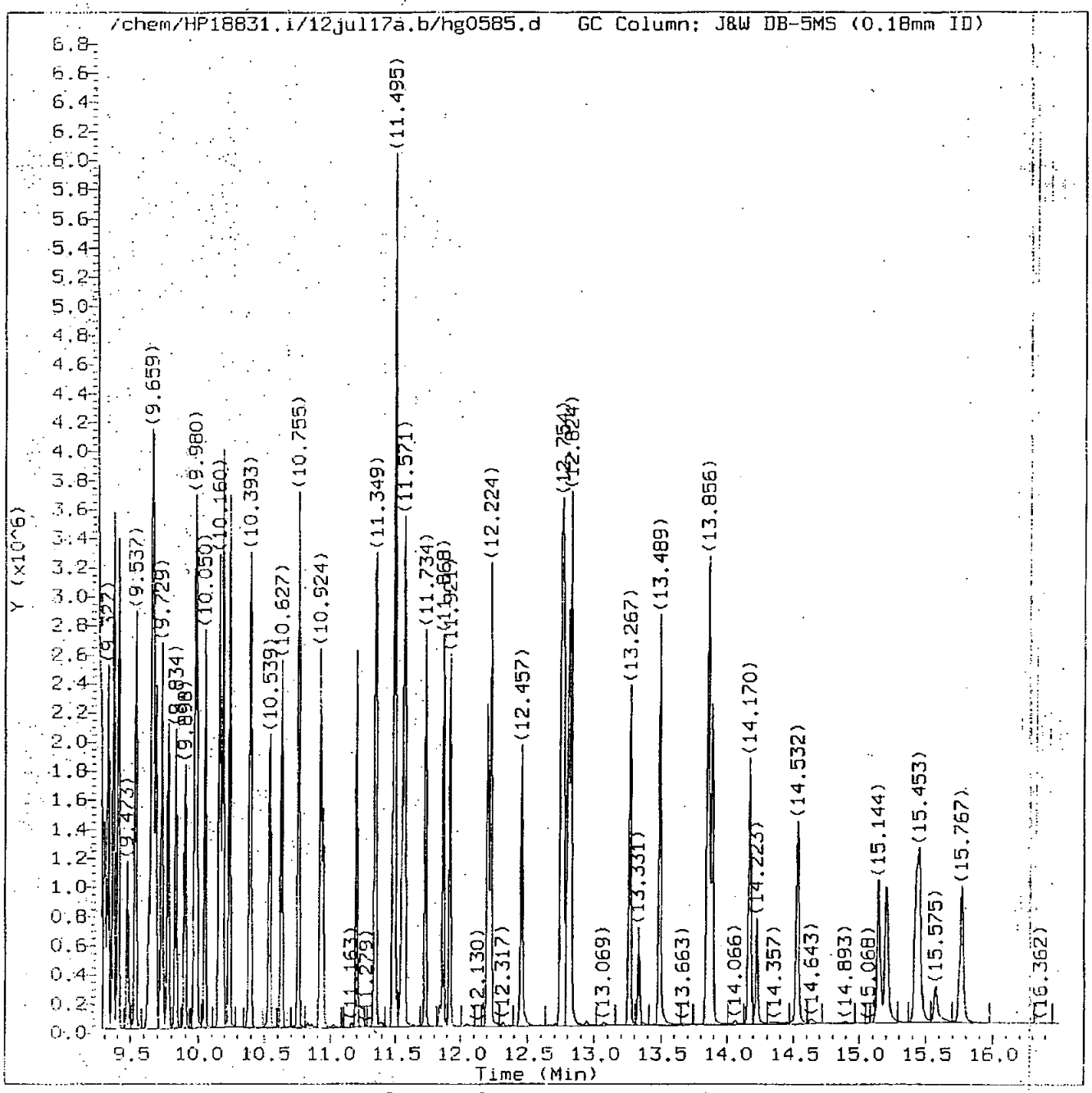
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD050

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346

ASX73 0726



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0585.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:23 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346

ASX73 0727

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0585.d
Injection date and time: 17-JUL-2012 20:23

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD050

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.595	88	248362	51.439
2) N-Nitrosodimethylamine	(1)	2.974	74	420638	52.926
3) Pyridine	(1)	3.009	79	673314	50.810
5) 2-Picoline	(1)	3.836	93	710924	51.994
6) N-Nitrosomethylethylamine	(1)	3.976	88	327165	52.163
7) Methyl methanesulfonate	(1)	4.303	80	368819	51.544
9) $2-Fluorophenol	(1)	4.466	112	543073	51.960
10) N-Nitrosodiethylamine	(1)	4.699	102	318151	53.183
11) Ethyl methanesulfonate	(1)	5.014	109	300149	52.580
12) Benzaldehyde	(1)	5.323	77	520570	51.746
14) $Phenol-d5	(1)	5.404	99	768062	51.886
15) $Phenol-d6	(1)	5.404	99	768062	51.886
16) Phenol	(1)	5.416	94	923695	52.773
13) Aniline	(1)	5.433	93	1066065	52.992
18) bis(2-Chloroethyl)ether	(1)	5.509	93	690685	53.022
19) 2-Chlorophenol	(1)	5.544	128	517125	53.344
20) 1,3-Dichlorobenzene	(1)	5.690	146	511308	52.286
21) *1,4-Dichlorobenzene-d4	(1)	5.748	152	124039	20.000
22) 1,4-Dichlorobenzene	(1)	5.766	146	514259	51.505
24) Benzyl alcohol	(1)	5.894	108	413849	49.219
25) 1,2-Dichlorobenzene	(1)	5.911	146	482669	51.938
206) Indene	(1)	5.999	115	882437	50.140
26) 2-Methylphenol	(1)	6.005	108	584363	52.276
28) bis(2-Chloroisopropyl)ether	(1)	6.028	45	778204	51.016
27) 2,2'-oxybis(1-Chloropropane)	(1)	6.028	45	778204	51.016
29) N-Nitrosopyrrolidine	(1)	6.139	100	320522	52.764
30) Acetophenone	(1)	6.150	105	837241	49.157
33) 4-Methylphenol	(1)	6.156	108	654188	54.025
31) N-Nitroso-di-n-propylamine	(1)	6.168	70	525967	51.136
32) N-Nitrosomorpholine	(1)	6.179	56	356639	49.171
34) o-Toluidine	(1)	6.179	106	922489	51.293
37) Hexachloroethane	(1)	6.238	117	231866	52.516
38) $Nitrobenzene-d5	(2)	6.290	82	736581	51.222
39) Nitrobenzene	(2)	6.313	77	772160	51.579
40) N-Nitrosopiperidine	(2)	6.459	114	287956	50.672
41) Isophorone	(2)	6.547	82	1432051	50.944
42) 2-Nitrophenol	(2)	6.617	139	279638	52.874
44) 2,4-Dimethylphenol	(2)	6.669	107	632518	50.867
45) O,O,O-triethylphosphorothioate	(2)	6.745	198	249538	50.879
46) bis(2-Chloroethoxy)methane	(2)	6.768	93	846181	50.002

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:21
Target 3.5 esignature user ID: jmg00346

ASX73 0728

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0585.d
Injection date and time: 17-JUL-2012 20:23

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD050

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
47) Benzoic acid	(2)	6.791	105	477000	49.753
49) 2,4-Dichlorophenol	(2)	6.856	162	406824	51.011
50) 1,2,4-Trichlorobenzene	(2)	6.931	180	449321	50.977
52) *Naphthalene-d8	(2)	6.984	136	522389	20.000
53) Naphthalene	(2)	7.007	128	1471263	49.433
56) 4-Chloroaniline	(2)	7.065	127	594352	49.158
57) 2,6-Dichlorophenol	(2)	7.071	162	382875	49.929
58) Hexachloropropene	(2)	7.094	213	276898	53.468
60) Hexachlorobutadiene	(2)	7.135	225	232152	50.894
194) Quinoline	(2)	7.345	129	967107	49.790
64) N-Nitrosodi-n-butylamine	(2)	7.403	84	484544	48.395
63) Caprolactam	(2)	7.444	113	197240	46.814
68) 4-Chloro-3-methylphenol	(2)	7.543	107	547875	50.129
69) Safrole	(2)	7.607	162	382658	50.304
70) 2-Methylnaphthalene	(2)	7.683	142	904124	49.744
71) 1-Methylnaphthalene	(2)	7.782	142	882523	49.636
72) Hexachlorocyclopentadiene	(3)	7.841	237	202730	55.941
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.846	216	407858	52.018
74) cis-Isosafrole	(3)	7.887	162	71364	5.797
75) 2,4,6-Trichlorophenol	(3)	7.963	196	289552	52.973
77) 2,4,5-Trichlorophenol	(3)	7.998	196	310501	51.406
78) $2-Fluorobiphenyl	(3)	8.050	172	1008042	51.384
79) trans-Isosafrole	(3)	8.114	162	393601	46.098
80) Isosafrole	(3)	8.114	162	393601	51.795
83) 1,1'-Biphenyl	(3)	8.149	154	1154438	49.474
84) 2-Chloronaphthalene	(3)	8.161	162	874961	51.607
85) 1-Chloronaphthalene	(3)	8.184	162	826013	49.041
88) Diphenyl ether	(3)	8.249	170	630341	50.747
89) 2-Nitroaniline	(3)	8.266	138	310631	53.052
90) 1,4-Naphthoquinone	(3)	8.336	158	374685	52.344
91) 1,4-Dinitrobenzene	(3)	8.400	168	168974	52.876
92) Dimethylphthalate	(3)	8.458	163	1011346	50.915
93) 1,3-Dinitrobenzene	(3)	8.476	168	194281	51.751
94) 2,6-Dinitrotoluene	(3)	8.511	165	237372	52.848
95) Acenaphthylene	(3)	8.563	152	1323580	51.431
97) 3-Nitroaniline	(3)	8.668	138	270326	52.682
98) *Acenaphthene-d10	(3)	8.703	164	294057	20.000
99) Acenaphthene	(3)	8.738	153	889942	50.502
100) 2,4-Dinitrophenol	(3)	8.767	184	147539	53.912
103) 4-Nitrophenol	(3)	8.831	109	190184	53.565

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:21
Target 3.5 esignature user ID: jmg00346

ASX73 0759

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0585.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:23 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD050 Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.866	250	321466	50.954
105) 2,4-Dinitrotoluene	(3)	8.901	165	291645	50.426
104) Dibenzofuran	(3)	8.907	168	1251646	50.073
106) 1-Naphthylamine	(3)	8.983	143	915603	50.989
107) 2,3,4,6-Tetrachlorophenol	(3)	9.024	232	230891	53.558
108) 2-Naphthylamine	(3)	9.065	143	910044	51.338
109) Diethylphthalate	(3)	9.152	149	1026414	49.951
110) Thionazin	(3)	9.234	107	199542	47.260
111) Fluorene	(3)	9.245	166	987072	49.404
112) 4-Chlorophenyl-phenylether	(3)	9.251	204	476045	49.392
113) 5-Nitro-o-toluidine	(3)	9.263	152	291491	50.891
114) 4-Nitroaniline	(3)	9.274	138	258437	49.961
115) 4,6-Dinitro-2-methylphenol	(4)	9.298	198	184198	54.650
117) N-Nitrosodiphenylamine	(4)	9.368	169	879441	52.896
202) NDPA as diphenylamine	(4)	9.368	169	879441	52.422
118) 1,2-Diphenylhydrazine	(4)	9.403	77	1522786	52.593
119) $2,4,6-Tribromophenol	(3)	9.478	330	96329	51.256
120) Tetraethyldithiopyrophosphate	(4)	9.537	97	209157	51.522
121) 1,3,5-Trinitrobenzene	(4)	9.636	213	111145	49.995
122) Diallate (peak 1)	(4)	9.653	86	524925	39.119
123) Phorate	(4)	9.665	75	923015	52.076
124) Phenacetin	(4)	9.688	108	619529	52.934
125) 4-Bromophenyl-phenylether	(4)	9.729	248	244843	51.673
126) Diallate (peak 2)	(4)	9.741	86	107213	13.047
127) Hexachlorobenzene	(4)	9.776	284	236807	50.985
128) Dimethoate	(4)	9.834	87	494151	52.006
130) Atrazine	(4)	9.898	200	171390	38.487
131) Pentachlorophenol	(4)	9.974	266	157524	52.774
133) 4-Aminobiphenyl	(4)	9.980	169	768077	49.113
132) Pentachloronitrobenzene	(4)	9.985	237	111097	52.136
134) Pronamide	(4)	10.050	173	437449	53.753
135) *Phenanthrene-d10	(4)	10.160	188	470245	20.000
136) Dinoseb	(4)	10.160	211	255623	50.042
137) Phenanthrene	(4)	10.184	178	1375151	50.756
138) Anthracene	(4)	10.236	178	1399566	52.277
140) Carbazole	(4)	10.393	167	1301612	50.991
141) Methyl parathion	(4)	10.539	109	365497	53.426
142) Di-n-butylphthalate	(4)	10.755	149	1676122	51.639
143) Parathion	(4)	10.924	109	232949	53.338
144) 4-Nitroquinoline-1-oxide	(4)	10.941	190	133382	54.567

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346

ASX73 0730

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0585.d
Injection date and time: 17-JUL-2012 20:23

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD050

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.198	193	161636	51.805
147) Fluoranthene	(4)	11.349	202	1383889	51.496
152) Benzidine	(5)	11.495	184	2667248	157.667
167) *Pyrene-d10	(5)	11.548	212	503525	20.000
154) Pyrene	(5)	11.571	202	1458451	50.468
156) $Terphenyl-d14	(5)	11.734	244	859919	51.006
158) p-Dimethylaminoazobenzene	(5)	11.874	225	283440	55.430
159) Chlorobenzilate	(5)	11.921	139	439424	53.640
160) 3,3'-Dimethylbenzidine	(5)	12.200	212	820318M	54.957
161) Butylbenzylphthalate	(5)	12.224	149	652151	52.008
162) 2-Acetylaminofluorene	(5)	12.457	181	490710	53.957
164) 3,3'-Dichlorobenzidine	(5)	12.748	252	388612	51.732
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.754	231	205907	54.049
166) Benzo(a)anthracene	(5)	12.766	228	1101080	51.915
168) Chrysene	(5)	12.807	228	1094378	51.193
169) bis(2-Ethylhexyl)phthalate	(5)	12.824	149	831987	51.915
189) 6-Methylchrysene	(5)	13.267	242	731869	51.585
170) Di-n-octylphthalate	(6)	13.489	149	1363284	54.758
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.856	256	425370	53.554
172) Benzo(b)fluoranthene	(6)	13.856	252	960098	54.646
173) Benzo(k)fluoranthene	(6)	13.885	252	868571	49.946
174) Benzo(a)pyrene	(6)	14.170	252	853857	54.196
175) *Perylene-d12	(6)	14.223	264	277664	20.000
176) 3-Methylcholanthrene	(6)	14.532	268	419333	54.354
190) Dibenz(a,h)acridine	(6)	15.144	279	581688	52.280
191) Dibenz(a,j)acridine	(6)	15.208	279	633856	52.618
177) Indeno(1,2,3-cd)pyrene	(6)	15.429	276	814667	53.495
178) Dibenz(a,h)anthracene	(6)	15.453	278	654056	52.281
179) Benzo(g,h,i)perylene	(6)	15.767	276	692549	53.858
129) Diallate TRANS/CIS	(4)			632138	52.164

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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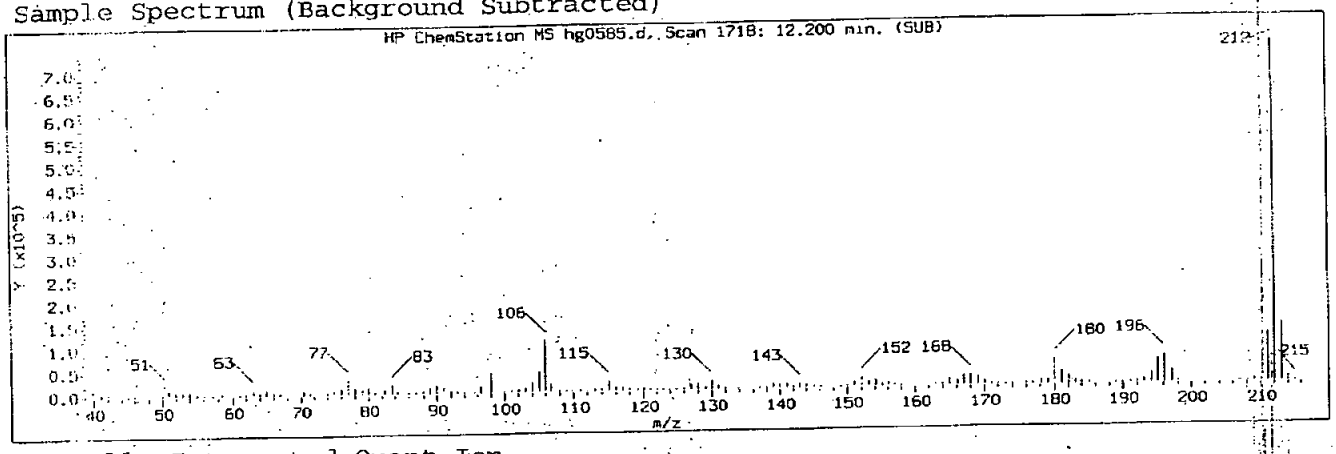
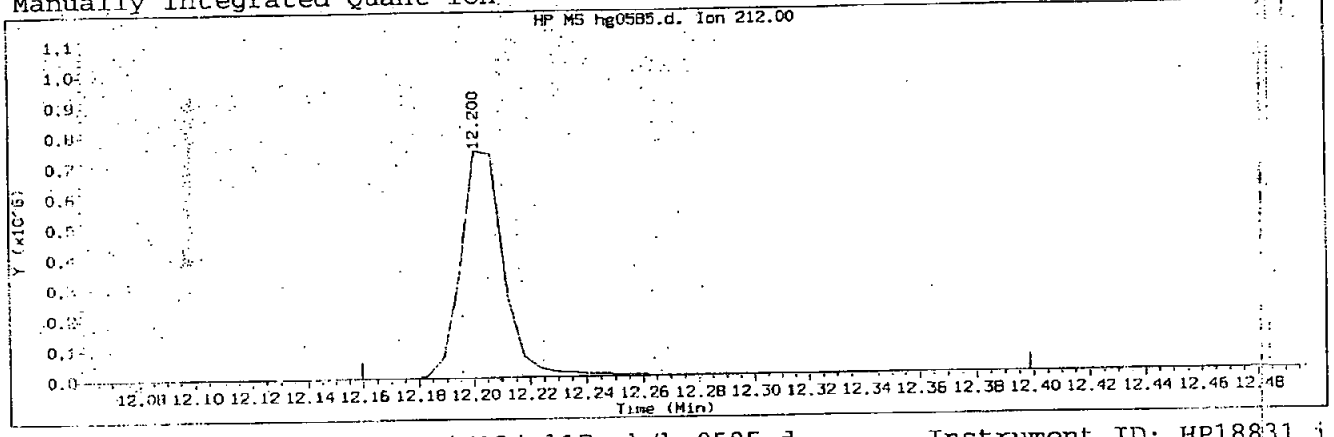
on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346

ASX73 0731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0585.d
Injection date and time: 17-JUL-2012 20:23

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD050

Lab Sample ID: STD1982

Compound Number	: 160
Compound Name	: 3,3'-Dimethylbenzidine
Scan Number	: 1718
Retention Time (minutes)	: 12.200
Quant Ion	: 212.00
Area (flag)	: 820318M
On-Column Amount (ng/ul)	: 54.9565
Integration start scan	: 1710
Integration stop scan	: 1751
Y at integration start	: 0
Y at integration end	: 0

Reason for manual integration: improper integration

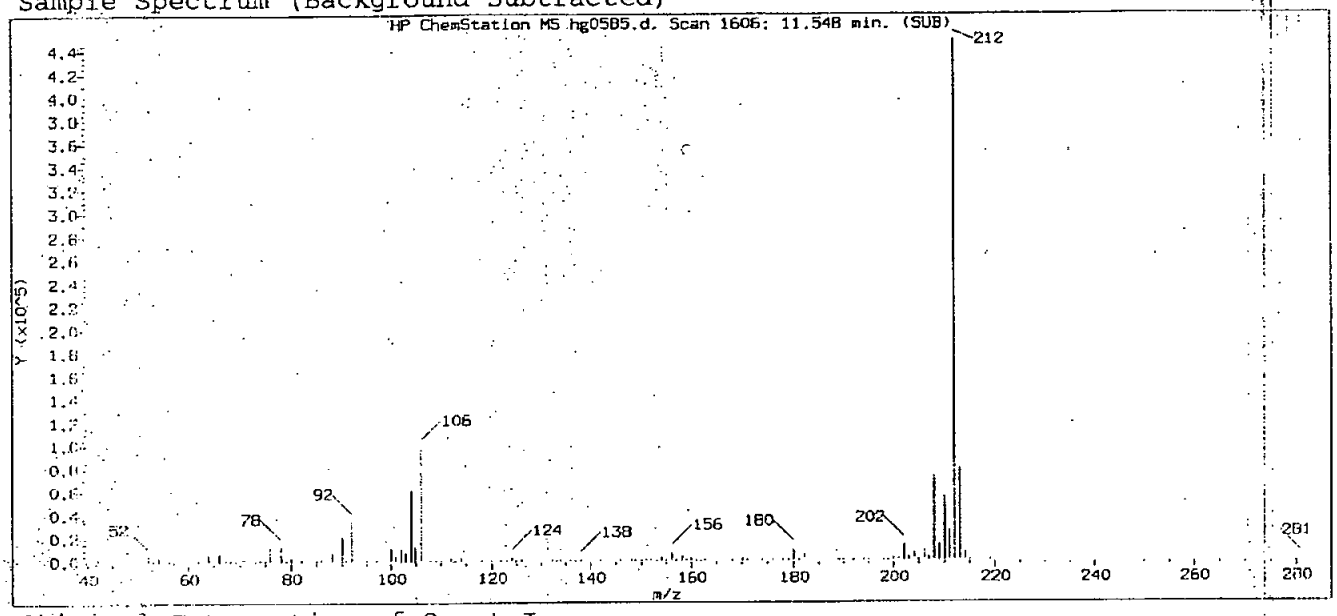
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:21. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

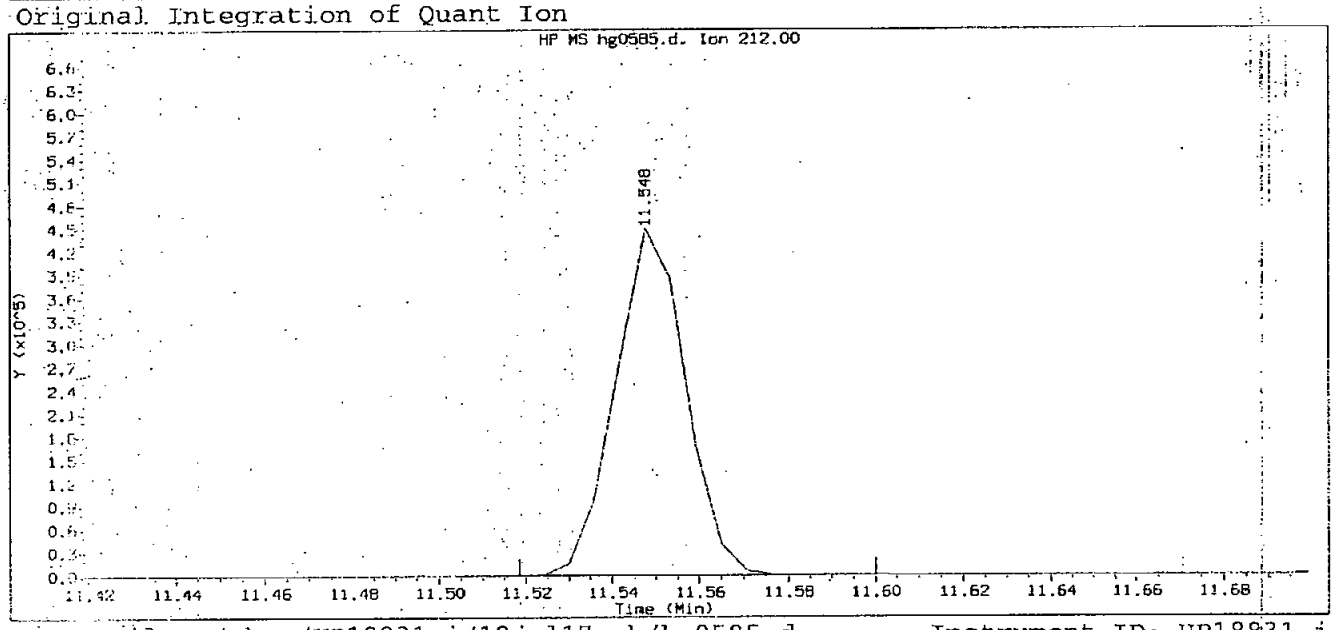
Matthew E. Barton
Senior Specialist

ASX73 0732

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



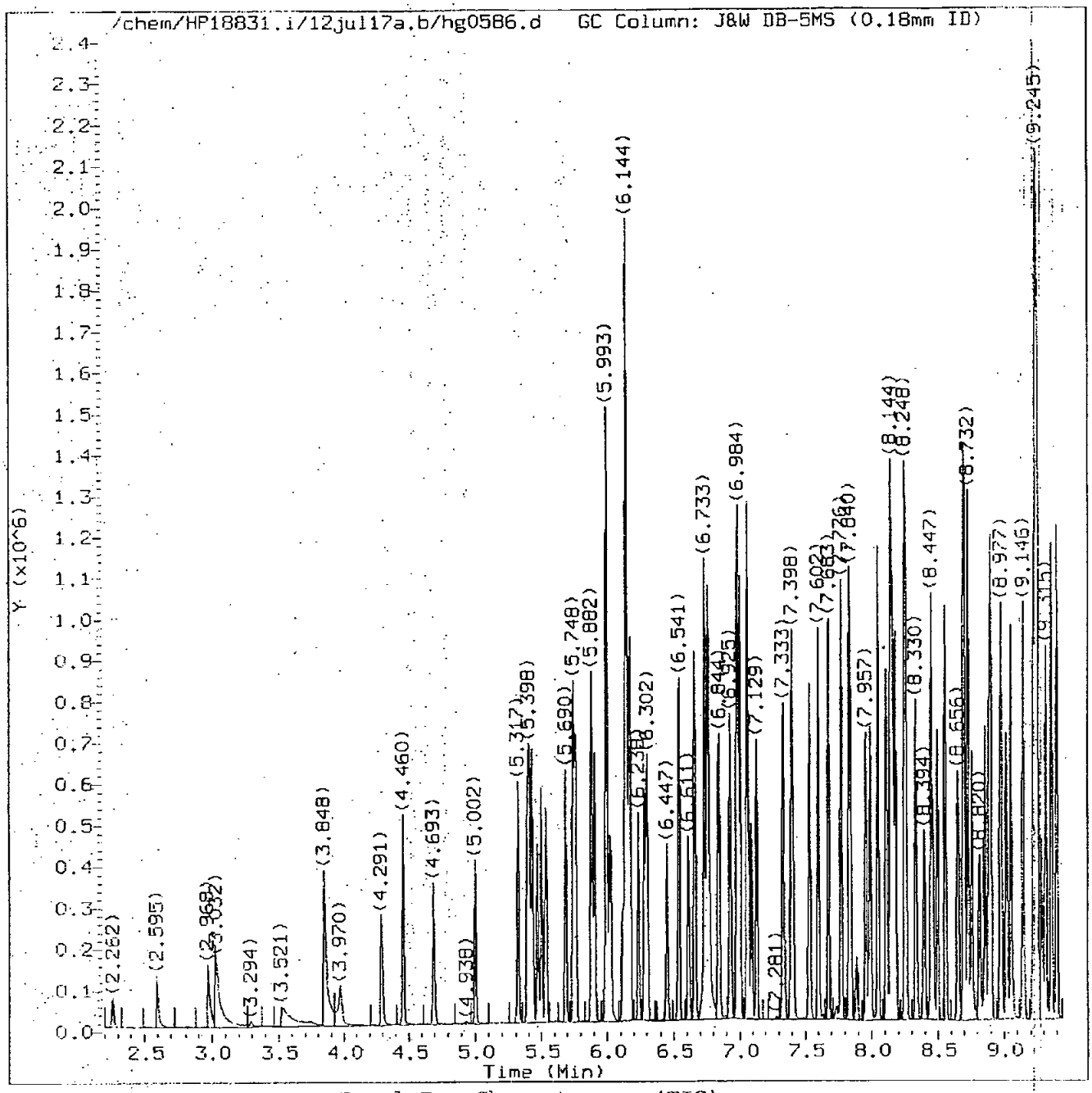
Data File: /chem/HP18831.i/12jul17a.b/hg0585.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:23 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 20:41
Date, time and analyst ID of latest file update: 17-Jul-2012 20:41 Automation

Sample Name: SSTD050 Lab Sample ID: STD1982

Compound Number	:	160
Compound Name	:	3,3'-Dimethylbenzidine
Scan Number	:	1606
Retention Time (minutes)	:	11.548
Quant Ion	:	212.00
Area	:	503969
On-column Amount (ng/ul)	:	49.3905
Integration start scan	:	1600 Integration stop scan: 1614
Y at integration start	:	0 Y at integration end: 0

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0586.d
Injection date and time: 17-JUL-2012 20:46

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

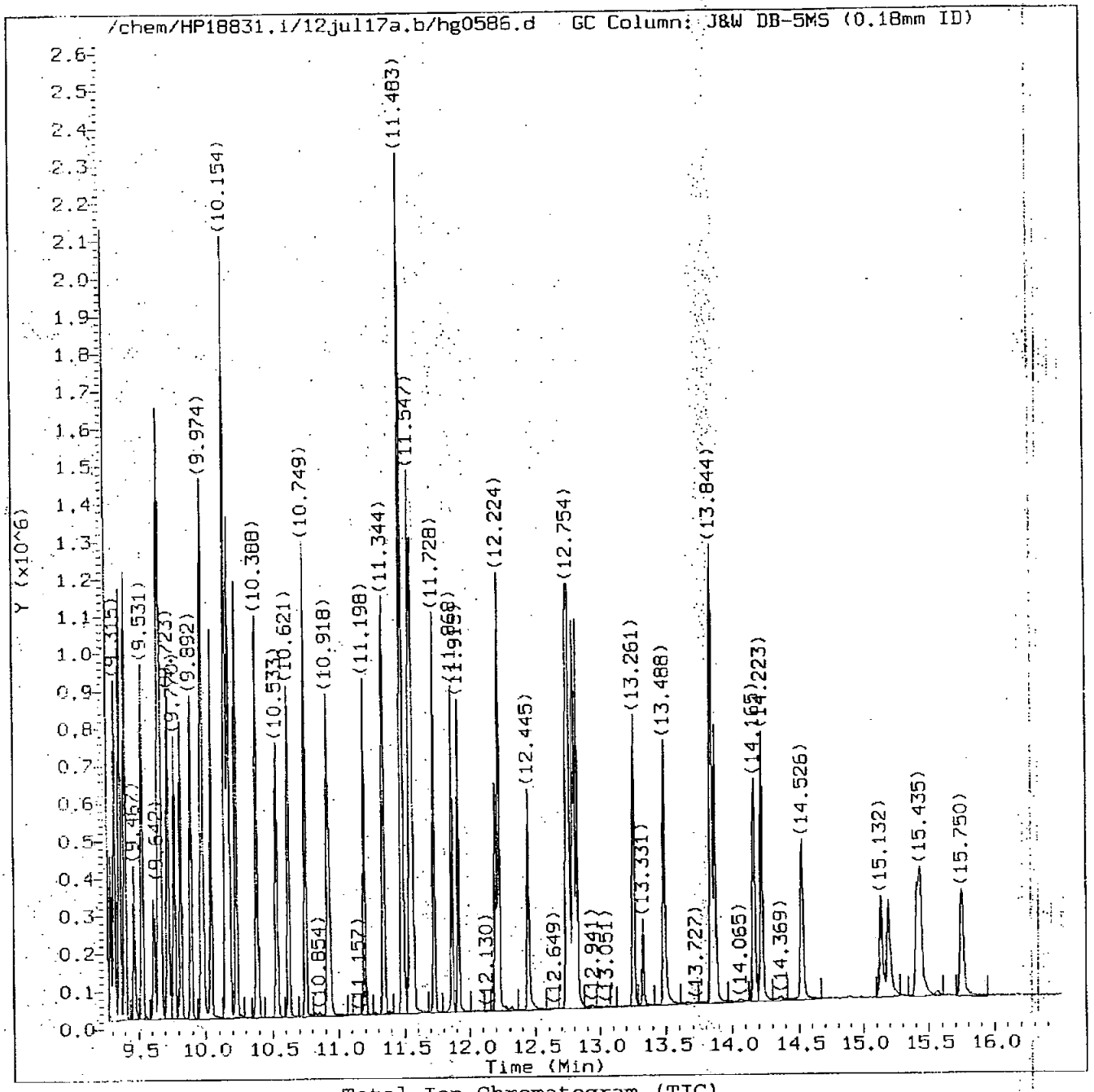
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD015

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:21
Target 3.5 esignature user ID: jmg00346

ASX73 0734



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0586.d
Injection date and time: 17-JUL-2012 20:46

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD015

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:21
Target 3.5 esignature user ID: jmg00346

ASX73 0735

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0586.d
Injection date and time: 17-JUL-2012 20:46

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD015

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.595	88	63074	14.171
2) N-Nitrosodimethylamine	(1)	2.968	74	102564	13.999
3) Pyridine	(1)	3.026	79	166636	13.641
5) 2-Picoline	(1)	3.848	93	190442	15.109
6) N-Nitrosomethylethylamine	(1)	3.970	88	85658	14.815
7) Methyl methanesulfonate	(1)	4.291	80	98840	14.984
9)$2-Fluorophenol	(1)	4.460	112	143555	14.899
10) N-Nitrosodiethylamine	(1)	4.693	102	84582	15.337
11) Ethyl methanesulfonate	(1)	5.002	109	81820	15.548
12) Benzaldehyde	(1)	5.317	77	140558	15.156
14)$Phenol-d5	(1)	5.392	99	208200	15.257
15)$Phenol-d6	(1)	5.392	99	208200	15.257
16) Phenol	(1)	5.404	94	251484	15.586
13) Aniline	(1)	5.427	93	285049	15.370
18) bis(2-Chloroethyl)ether	(1)	5.497	93	182995	15.239
19) 2-Chlorophenol	(1)	5.538	128	137825	15.423
20) 1,3-Dichlorobenzene	(1)	5.690	146	135725	15.056
21)*1,4-Dichlorobenzene-d4	(1)	5.748	152	114346	20.000
22) 1,4-Dichlorobenzene	(1)	5.760	146	137313	14.918
24) Benzyl alcohol	(1)	5.882	108	122003	15.740
25) 1,2-Dichlorobenzene	(1)	5.905	146	130545	15.238
206) Indene	(1)	5.993	115	254195	15.668
26) 2-Methylphenol	(1)	5.999	108	163310	15.848
28) bis(2-Chloroisopropyl)ether	(1)	6.022	45	215409	15.319
27) 2,2'-oxybis(1-Chloropropane)	(1)	6.022	45	215409	15.319
29) N-Nitrosopyrrolidine	(1)	6.121	100	89768	16.030
30) Acetophenone	(1)	6.139	105	254092	16.183
33) 4-Methylphenol	(1)	6.144	108	177850	15.932
31) N-Nitroso-di-n-propylamine	(1)	6.150	70	153448	16.183
32) N-Nitrosomorpholine	(1)	6.162	56	110908	16.587
34) o-Toluidine	(1)	6.173	106	273175	16.477
37) Hexachloroethane	(1)	6.238	117	61599	15.134
38)$Nitrobenzene-d5	(2)	6.284	82	201898	14.823
39) Nitrobenzene	(2)	6.302	77	213097	15.029
40) N-Nitrosopiperidine	(2)	6.447	114	83175	15.453
41) Isophorone	(2)	6.541	82	413860	15.544
42) 2-Nitrophenol	(2)	6.611	139	76504	15.272
44) 2,4-Dimethylphenol	(2)	6.657	107	184951	15.703
45) O,O,O-triethylphosphorothioate	(2)	6.733	198	73008	15.716
46) bis(2-Chloroethoxy)methane	(2)	6.756	93	234093	14.605

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:21
Target 3.5 esignature user ID: jmg00346

ASX73 0736

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0586.d
Injection date and time: 17-JUL-2012 20:46

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall11

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD015

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
47) Benzoic acid	(2)	6.774	105	286890	31.593
49) 2,4-Dichlorophenol	(2)	6.844	162	118953	15.747
50) 1,2,4-Trichlorobenzene	(2)	6.925	180	124545	14.918
52) *Naphthalene-d8	(2)	6.984	136	494790	20.000
53) Naphthalene	(2)	7.001	128	429931	15.251
56) 4-Chloroaniline	(2)	7.059	127	184442	16.106
57) 2,6-Dichlorophenol	(2)	7.065	162	113513	15.628
58) Hexachloropropene	(2)	7.089	213	70602	14.393
60) Hexachlorobutadiene	(2)	7.129	225	64547	14.940
194) Quinoline	(2)	7.333	129	293641	15.961
64) N-Nitrosodi-n-butylamine	(2)	7.398	84	188240	16.554
63) Caprolactam	(2)	7.409	113	64971	16.281
68) 4-Chloro-3-methylphenol	(2)	7.532	107	166450	16.079
69) Safrole	(2)	7.602	162	113562	15.762
70) 2-Methylnaphthalene	(2)	7.683	142	272499	15.829
71) 1-Methylnaphthalene	(2)	7.776	142	265422	15.761
72) Hexachlorocyclopentadiene	(3)	7.835	237	51225	13.535
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.840	216	122575	14.970
74) cis-Isosafrole	(3)	7.887	162	20530	1.597
75) 2,4,6-Trichlorophenol	(3)	7.957	196	88963	15.585
77) 2,4,5-Trichlorophenol	(3)	7.986	196	95876	15.199
78) $2-Fluorobiphenyl	(3)	8.044	172	309425	15.103
79) trans-Isosafrole	(3)	8.109	162	119947	13.451
80) Isosafrole	(3)	8.109	162	119947	15.114
83) 1,1'-Biphenyl	(3)	8.144	154	378393	15.528
84) 2-Chloronaphthalene	(3)	8.155	162	278633	15.737
85) 1-Chloronaphthalene	(3)	8.179	162	250106	14.218
88) Diphenyl ether	(3)	8.248	170	196131	15.119
89) 2-Nitroaniline	(3)	8.254	138	96275	15.745
90) 1,4-Naphthoquinone	(3)	8.330	158	118208	15.813
91) 1,4-Dinitrobenzene	(3)	8.394	168	50110	15.015
92) Dimethylphthalate	(3)	8.447	163	333315	16.068
93) 1,3-Dinitrobenzene	(3)	8.464	168	61068	15.576
94) 2,6-Dinitrotoluene	(3)	8.499	165	74041	15.784
95) Acenaphthylene	(3)	8.557	152	411047	15.294
97) 3-Nitroaniline	(3)	8.656	138	86642	16.168
98) *Acenaphthene-d10	(3)	8.697	164	307096	20.000
99) Acenaphthene	(3)	8.732	153	281312	15.286
100) 2,4-Dinitrophenol	(3)	8.761	184	85047	29.757
103) 4-Nitrophenol	(3)	8.820	109	54170	14.609

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:21
Target 3.5 esignature user ID: jmg00346

ASX73 0737

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0586.d
Injection date and time: 17-JUL-2012 20:46

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD015

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.860	250	99004	15.026
105) 2,4-Dinitrotoluene	(3)	8.890	165	97248	16.101
104) Dibenzofuran	(3)	8.901	168	413446	15.838
106) 1-Naphthylamine	(3)	8.977	143	292164	15.579
107) 2,3,4,6-Tetrachlorophenol	(3)	9.018	232	71818	15.952
108) 2-Naphthylamine	(3)	9.053	143	294444	15.905
109) Diethylphthalate	(3)	9.146	149	344106	16.035
110) Thionazin	(3)	9.222	107	77853	17.656
111) Fluorene	(3)	9.234	166	338712	16.233
112) 4-Chlorophenyl-phenylether	(3)	9.245	204	162023	16.097
113) 5-Nitro-o-toluidine	(3)	9.251	152	99293	16.599
114) 4-Nitroaniline	(3)	9.257	138	90044	16.668
115) 4,6-Dinitro-2-methylphenol	(4)	9.286	198	53733	14.223
117) N-Nitrosodiphenylamine	(4)	9.356	169	283693	15.224
202) NDPA as diphenylamine	(4)	9.356	169	283693	15.087
118) 1,2-Diphenylhydrazine	(4)	9.397	77	495331	15.263
119)$2,4,6-Tribromophenol	(3)	9.473	330	30345	15.461
120) Tetraethyldithiopyrophosphate	(4)	9.531	97	71582	15.732
121) 1,3,5-Trinitrobenzene	(4)	9.618	213	30845	15.080
122) Diallate (peak 1)	(4)	9.647	86	172804	11.490
123) Phorate	(4)	9.659	75	295717	15.710
124) Phenacetin	(4)	9.671	108	201266	15.343
125) 4-Bromophenyl-phenylether	(4)	9.723	248	79203	14.913
126) Diallate (peak 2)	(4)	9.735	86	33918	3.683
127) Hexachlorobenzene	(4)	9.770	284	77863	14.957
128) Dimethoate	(4)	9.816	87	167981	15.773
130) Atrazine	(4)	9.892	200	82411	16.511
131) Pentachlorophenol	(4)	9.968	266	47617	14.233
133) 4-Aminobiphenyl	(4)	9.974	169	300931	17.168
132) Pentachloronitrobenzene	(4)	9.980	237	36520	15.290
134) Pronamide	(4)	10.044	173	145829	15.987
135)*Phenanthrene-d10	(4)	10.154	188	527067	20.000
136) Dinoseb	(4)	10.154	211	72167	15.448
137) Phenanthrene	(4)	10.178	178	458925	15.112
138) Anthracene	(4)	10.230	178	469114	15.633
140) Carbazole	(4)	10.388	167	439061	15.346
141) Methyl parathion	(4)	10.533	109	121298	15.819
142) Di-n-butylphthalate	(4)	10.749	149	559135	15.369
143) Parathion	(4)	10.918	109	73499	15.015
144) 4-Nitroquinoline-1-oxide	(4)	10.935	190	33979	13.256

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346

ASX73 0738

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0586.d
Injection date and time: 17-JUL-2012 20:46

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD015

Lab Sample ID: STD1982

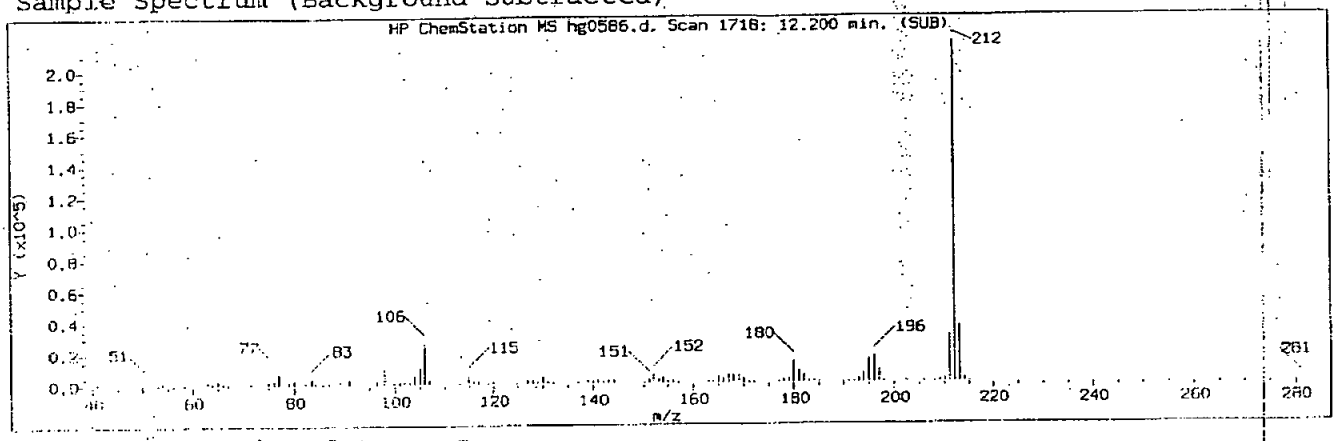
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.198	193	55761	15.945
147) Fluoranthene	(4)	11.344	202	466887	15.500
152) Benzidine	(5)	11.483	184	857521	44.840
167) *Pyrene-d10	(5)	11.547	212	569214	20.000
154) Pyrene	(5)	11.565	202	492821	15.085
156) $Terphenyl-d14	(5)	11.728	244	293327	15.391
158) p-Dimethylaminoazobenzene	(5)	11.868	225	88768	15.356
159) Chlorobenzilate	(5)	11.915	139	147556	15.933
160) 3,3'-Dimethylbenzidine	(5)	12.200	212	243927M	14.456
161) Butylbenzylphthalate	(5)	12.224	149	213763	15.080
162) 2-Acetylaminofluorene	(5)	12.445	181	133445	12.980
164) 3,3'-Dichlorobenzidine	(5)	12.742	252	121406	14.296
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.748	231	60950	14.153
166) Benzo(a)anthracene	(5)	12.760	228	367643	15.334
168) Chrysene	(5)	12.795	228	368491	15.248
169) bis(2-Ethylhexyl)phthalate	(5)	12.824	149	263188	14.527
189) 6-Methylchrysene	(5)	13.261	242	231022	14.404
170) Di-n-octylphthalate	(6)	13.488	149	383353	14.443
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.844	256	132425	15.639
172) Benzo(b)fluoranthene	(6)	13.844	252	293969	15.695
173) Benzo(k)fluoranthene	(6)	13.873	252	294230	15.871
174) Benzo(a)pyrene	(6)	14.165	252	261795	15.587
175) *Perylene-d12	(6)	14.223	264	296013	20.000
176) 3-Methylcholanthrene	(6)	14.526	268	125148	15.216
190) Dibenz(a,h)acridine	(6)	15.132	279	160186	13.505
191) Dibenz(a,j)acridine	(6)	15.190	279	181292	14.117
177) Indeno(1,2,3-cd)pyrene	(6)	15.412	276	239063	14.725
178) Dibenz(a,h)anthracene	(6)	15.435	278	202386	15.175
179) Benzo(g,h,i)perylene	(6)	15.756	276	197235	14.388
129) Diallate TRANS/CIS	(4)			206722	15.220

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

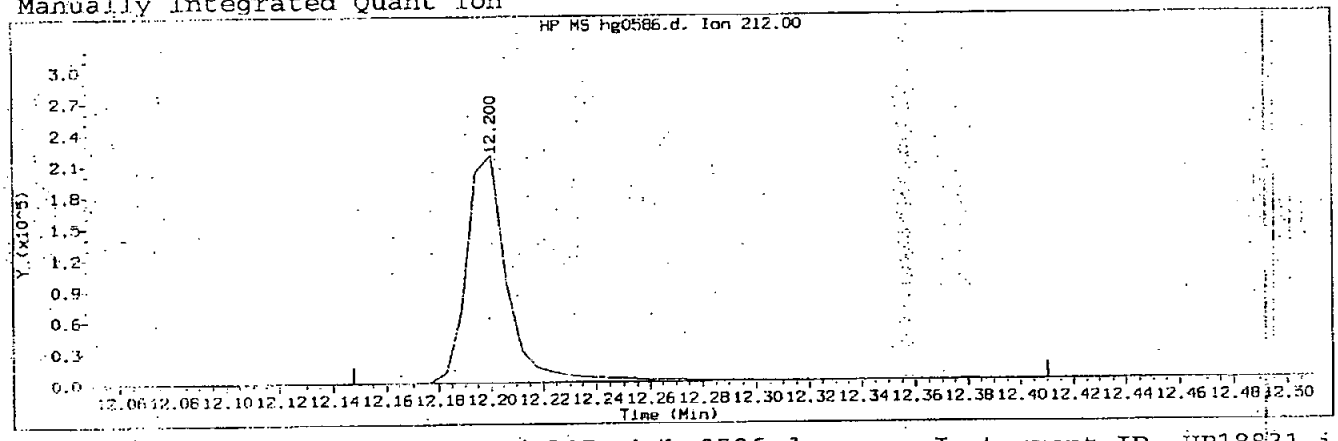
Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:21
Target 3.5 esignature user ID: jmg00346

ASX73 0739

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0586.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:46 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD015 Lab Sample ID: STD1982

Compound Number : 160
Compound Name : 3,3'-Dimethylbenzidine
Scan Number : 1718
Retention Time (minutes) : 12.200
Quant Ion : 212.00
Area (flag) : 243927M
On-Column Amount (ng/ul) : 14.4558
Integration start scan : 1708 Integration stop scan: 1753
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

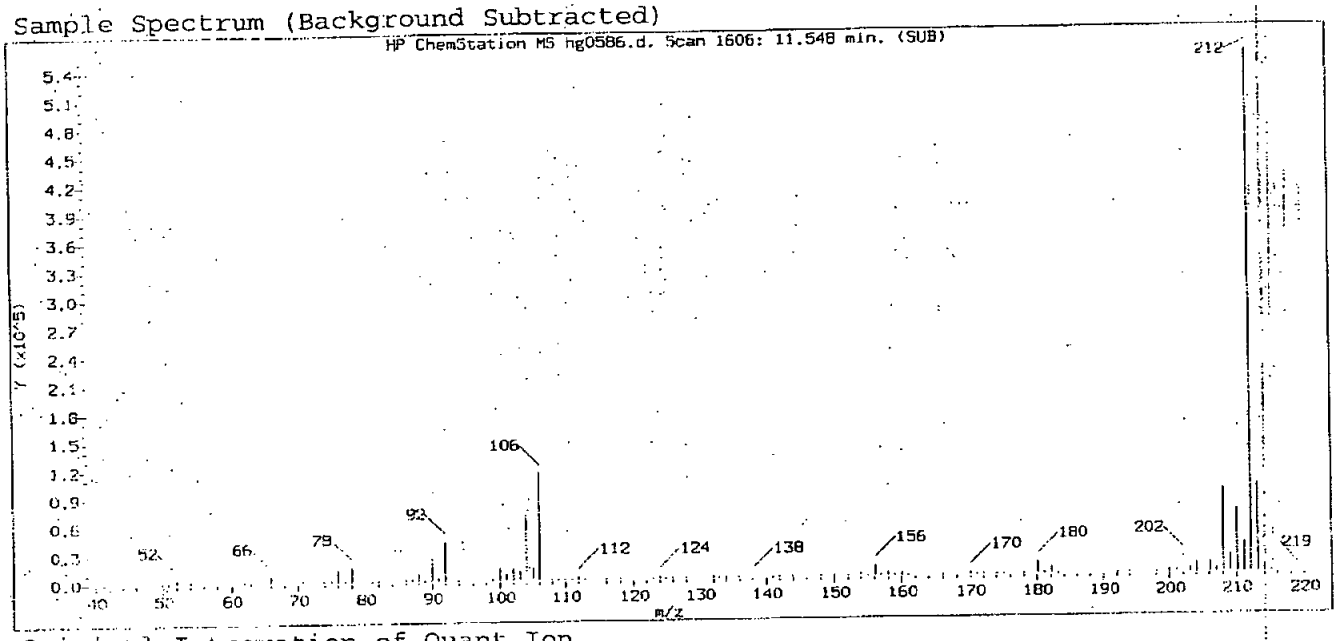
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:21. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: _____
JUL 18 2012

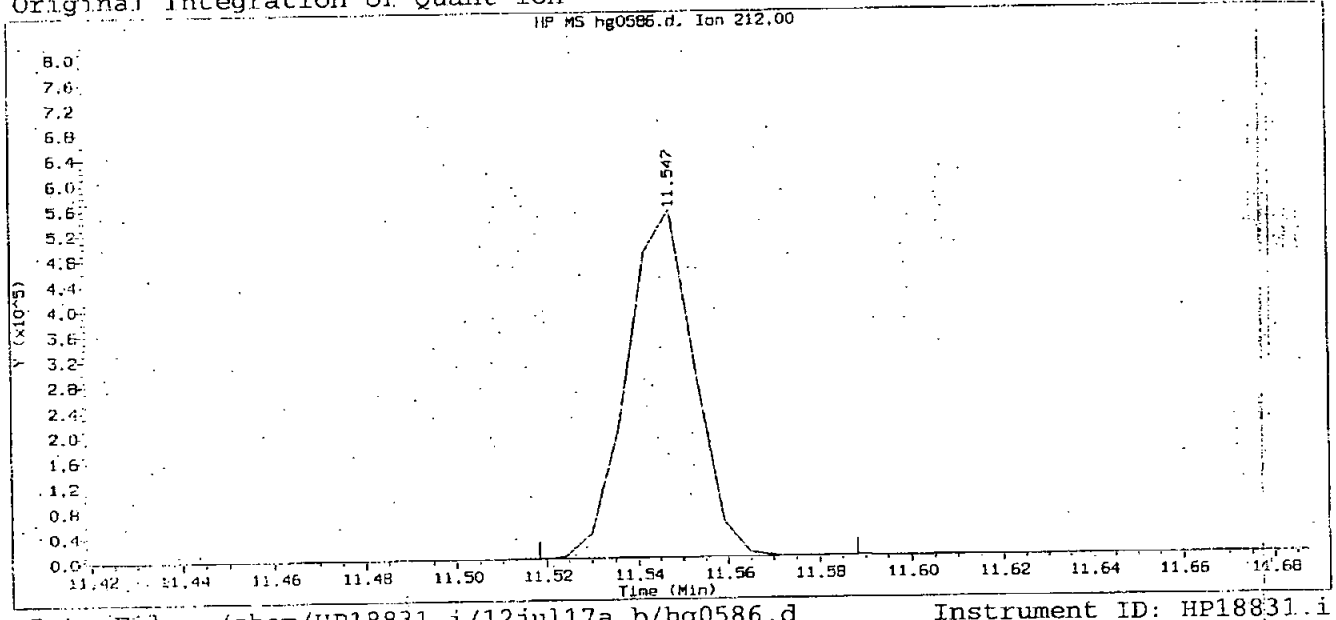
Matthew E. Barton
Senior Specialist

ASX73 0740

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



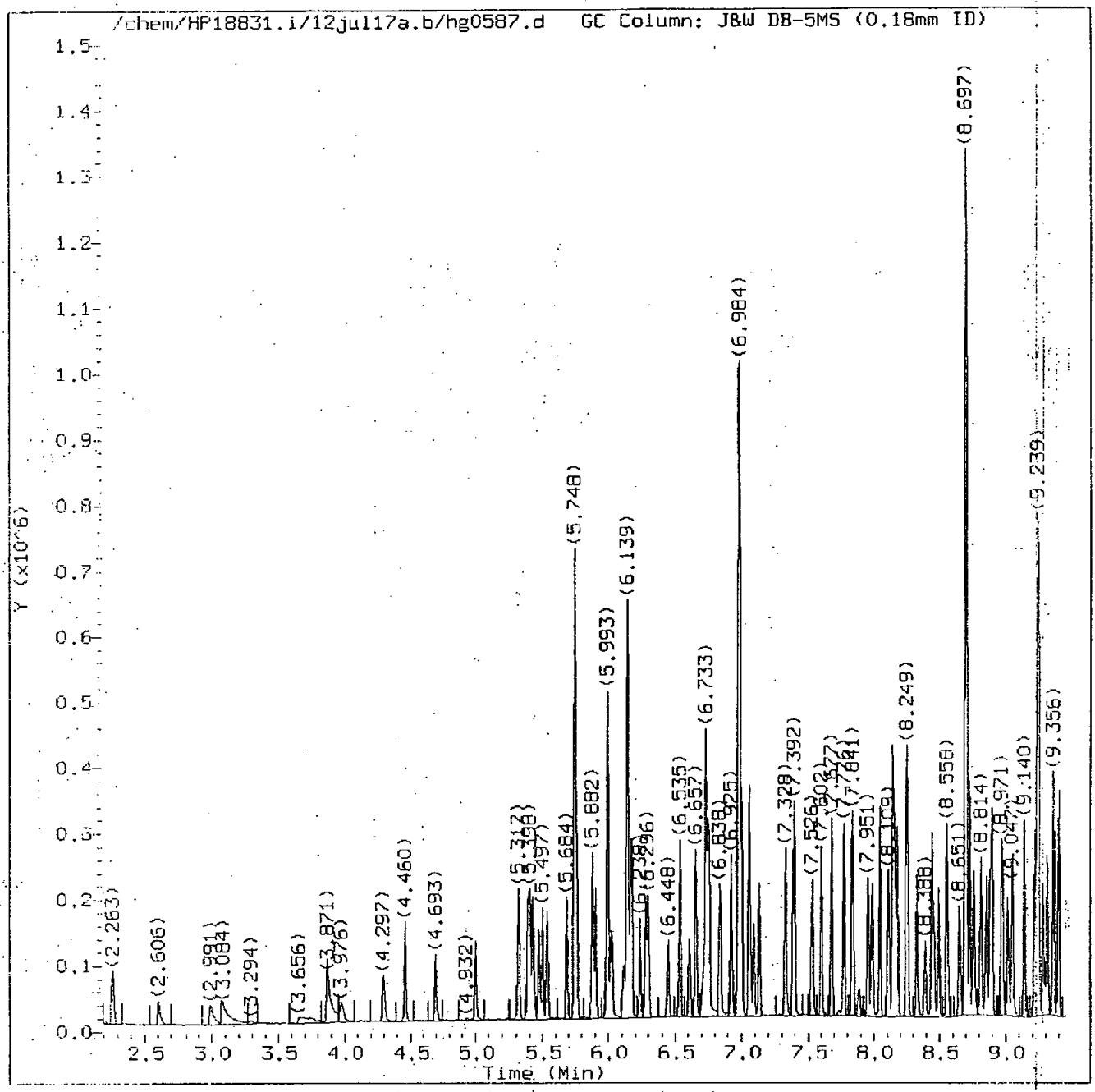
Data File: /chem/HP18831.i/12jul17a.b/hg0586.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 20:46 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:04
Date, time and analyst ID of latest file update: 17-Jul-2012 21:04 Automation

Sample Name: SSTD015 Lab Sample ID: STD1982

Compound Number	: 160		
Compound Name	: 3,3'-Dimethylbenzidine		
Scan Number	: 1606		
Retention Time (minutes)	: 11.547		
Quant Ion	: 212.00		
Area	: 569945		
On-column Amount (ng/ul)	: 37.3959		
Integration start scan	: 1600	Integration stop scan:	1612
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:21.
Target 3.5 esignature user ID: jmg00346



Total Ion Chromatogram (TIC)

Target Revision 3.5

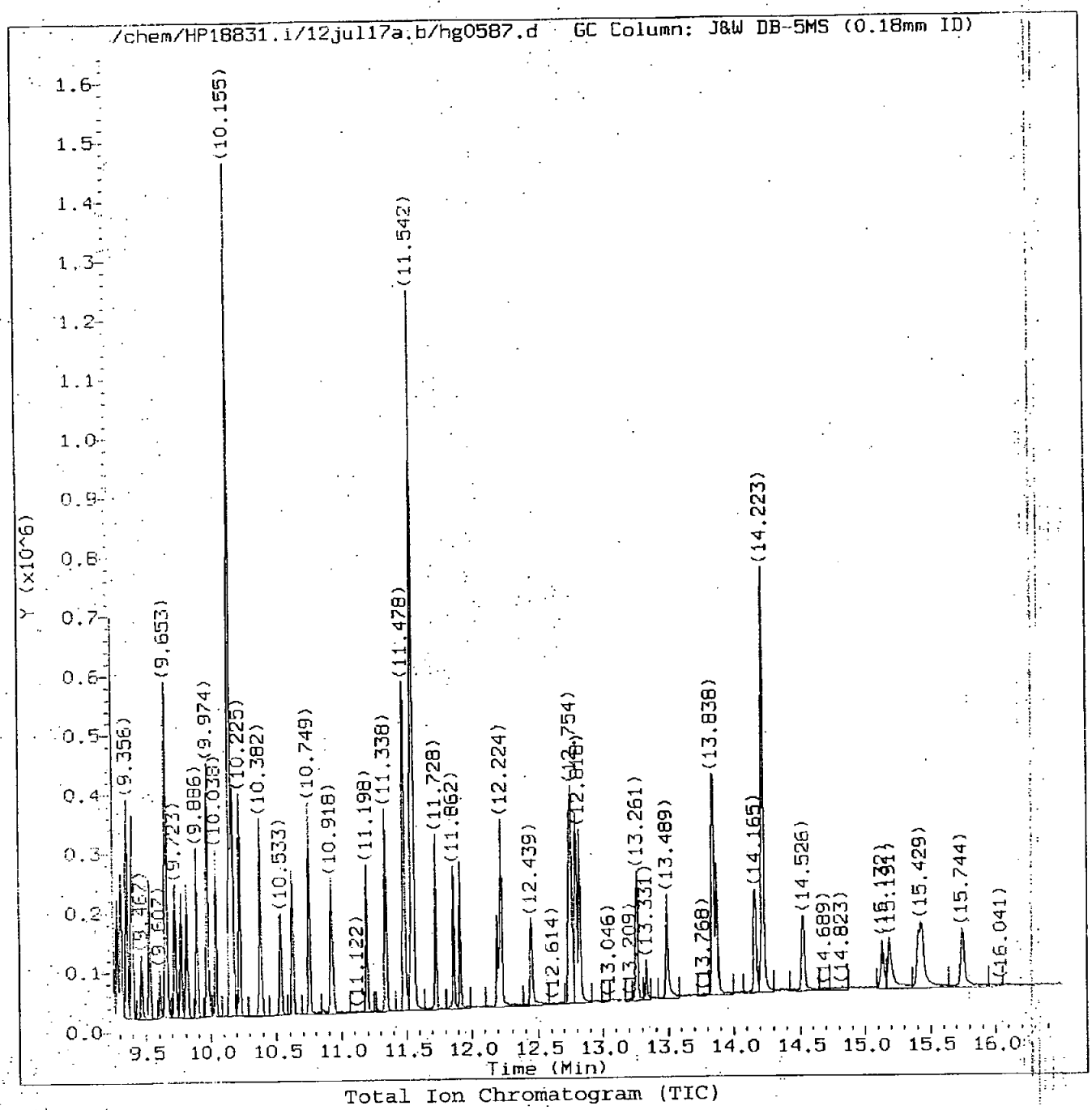
Data File: /chem/HP18831.i/12jul17a.b/hg0587.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:09 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

ASX73 0742



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0587.d
Injection date and time: 17-JUL-2012 21:09

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD005

Lab Sample ID: STD1982

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on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

ASX73 0745

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0587.d
Injection date and time: 17-JUL-2012 21:09

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD005

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.606	88	21762M	5.410
2) N-Nitrosodimethylamine	(1)	2.991	74	32492M	4.908
3) Pyridine	(1)	3.073	79	52675M	4.772
5) 2-Picoline	(1)	3.865	93	56218	4.935
6) N-Nitrosomethylethylamine	(1)	3.976	88	25525	4.885
7) Methyl methanesulfonate	(1)	4.297	80	29778	4.996
9) $2-Fluorophenol	(1)	4.460	112	43100	4.950
10) N-Nitrosodiethylamine	(1)	4.693	102	24550	4.926
11) Ethyl methanesulfonate	(1)	5.002	109	23330	4.906
12) Benzaldehyde	(1)	5.317	77	45351	5.411
14) $Phenol-d5	(1)	5.387	99	60925	4.941
15) $Phenol-d6	(1)	5.387	99	60925	4.941
16) Phenol	(1)	5.398	94	73181	5.019
13) Aniline	(1)	5.428	93	83887	5.005
18) bis(2-Chloroethyl)ether	(1)	5.497	93	52628	4.850
19) 2-Chlorophenol	(1)	5.532	128	40252	4.984
20) 1,3-Dichlorobenzene	(1)	5.684	146	41515	5.096
21) *1,4-Dichlorobenzene-d4	(1)	5.748	152	103331	20.000
22) 1,4-Dichlorobenzene	(1)	5.760	146	42585	5.120
24) Benzyl alcohol	(1)	5.882	108	37488	5.352
25) 1,2-Dichlorobenzene	(1)	5.905	146	39786	5.139
206) Indene	(1)	5.993	115	80139	5.466
26) 2-Methylphenol	(1)	5.993	108	47237	5.073
28) bis(2-Chloroisopropyl)ether	(1)	6.022	45	62491	4.918
27) 2,2'-oxybis(1-Chloropropane)	(1)	6.022	45	62491	4.918
29) N-Nitrosopyrrolidine	(1)	6.115	100	25819	5.102
30) Acetophenone	(1)	6.139	105	77511	5.463
33) 4-Methylphenol	(1)	6.139	108	49577	4.915
31) N-Nitroso-di-n-propylamine	(1)	6.144	70	43908	5.124
32) N-Nitrosomorpholine	(1)	6.156	56	32795	5.428
34) o-Toluidine	(1)	6.168	106	78717	5.254
37) Hexachloroethane	(1)	6.238	117	18599	5.057
38) $Nitrobenzene-d5	(2)	6.279	82	57665	4.880
39) Nitrobenzene	(2)	6.296	77	60504	4.918
40) N-Nitrosopiperidine	(2)	6.448	114	24167	5.175
41) Isophorone	(2)	6.535	82	117331	5.079
42) 2-Nitrophenol	(2)	6.611	139	21186	4.874
44) 2,4-Dimethylphenol	(2)	6.657	107	52010	5.089
45) O,O,O-triethylphosphorothioate	(2)	6.733	198	20827	5.167
47) Benzoic acid	(2)	6.745	105	118013	14.978

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: jmg00346

ASX73 0744

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0587.d
Injection date and time: 17-JUL-2012 21:09

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD005

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
46) bis(2-Chloroethoxy)methane	(2)	6.756	93	68684	4.939
49) 2,4-Dichlorophenol	(2)	6.838	162	33171	5.061
50) 1,2,4-Trichlorobenzene	(2)	6.925	180	38063	5.255
52) *Naphthalene-d8	(2)	6.984	136	429306	20.000
53) Naphthalene	(2)	7.001	128	128275	5.244
56) 4-Chloroaniline	(2)	7.054	127	52990	5.333
57) 2,6-Dichlorophenol	(2)	7.060	162	33047	5.244
58) Hexachloropropene	(2)	7.089	213	18826	4.423
60) Hexachlorobutadiene	(2)	7.130	225	18898	5.041
194) Quinoline	(2)	7.328	129	84123	5.270
63) Caprolactam	(2)	7.386	113	18822	5.436
64) N-Nitrosodi-n-butylamine	(2)	7.392	84	53307	1.639
68) 4-Chloro-3-methylphenol	(2)	7.532	107	46244	5.149
69) Safrole	(2)	7.602	162	32318	5.170
70) 2-Methylnaphthalene	(2)	7.677	142	77332	5.177
71) 1-Methylnaphthalene	(2)	7.776	142	76990	5.269
72) Hexachlorocyclopentadiene	(3)	7.835	237	12504	3.860
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.841	216	35362	5.046
74) cis-Isosafrole	(3)	7.887	162	5611	0.510
75) 2,4,6-Trichlorophenol	(3)	7.951	196	24254	4.964
77) 2,4,5-Trichlorophenol	(3)	7.986	196	28236	5.230
78) $2-Fluorobiphenyl	(3)	8.045	172	88252	5.033
79) trans-Isosafrole	(3)	8.109	162	33622	4.405
80) Isosafrole	(3)	8.109	162	33622	4.950
83) 1,1'-Biphenyl	(3)	8.138	154	113227	5.429
84) 2-Chloronaphthalene	(3)	8.155	162	92936M	6.133
85) 1-Chloronaphthalene	(3)	8.173	162	75302M	5.002
88) Diphenyl ether	(3)	8.243	170	56449	5.084
89) 2-Nitroaniline	(3)	8.249	138	26213	5.009
90) 1,4-Naphthoquinone	(3)	8.324	158	31668	4.949
91) 1,4-Dinitrobenzene	(3)	8.394	168	12372	4.331
92) Dimethylphthalate	(3)	8.441	163	91936	5.178
93) 1,3-Dinitrobenzene	(3)	8.458	168	15676	4.672
94) 2,6-Dinitrotoluene	(3)	8.493	165	20343	5.067
95) Acenaphthylene	(3)	8.558	152	117464	5.106
97) 3-Nitroaniline	(3)	8.651	138	22937	5.001
98) *Acenaphthene-d10	(3)	8.697	164	262838	20.000
99) Acenaphthene	(3)	8.727	153	81232	5.157
100) 2,4-Dinitrophenol	(3)	8.756	184	27541	11.259
103) 4-Nitrophenol	(3)	8.814	109	28959	9.125

M = Compound was manually integrated.
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$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

ASX73 0745

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0587.d
Injection date and time: 17-JUL-2012 21:09

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD005

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.855	250	29339	5.203
105) 2,4-Dinitrotoluene	(3)	8.884	165	25998	5.029
104) Dibenzofuran	(3)	8.901	168	118951	5.324
106) 1-Naphthylamine	(3)	8.971	143	80575	5.020
107) 2,3,4,6-Tetrachlorophenol	(3)	9.018	232	19714	5.116
108) 2-Naphthylamine	(3)	9.053	143	80855	5.103
109) Diethylphthalate	(3)	9.140	149	95162	5.181
110) Thionazin	(3)	9.216	107	20411	5.408
111) Fluorene	(3)	9.234	166	97098	5.437
113) 5-Nitro-o-toluidine	(3)	9.245	152	26650	5.205
114) 4-Nitroaniline	(3)	9.245	138	24790	5.362
112) 4-Chlorophenyl-phenylether	(3)	9.245	204	46396	5.386
115) 4,6-Dinitro-2-methylphenol	(4)	9.280	198	26253	7.972
117) N-Nitrosodiphenylamine	(4)	9.356	169	80142	4.934
202) NDPA as diphenylamine	(4)	9.356	169	80142	4.890
118) 1,2-Diphenylhydrazine	(4)	9.397	77	137740	4.869
119)$2,4,6-Tribromophenol	(3)	9.467	330	8057	4.796
120) Tetraethyldithiopyrophosphate	(4)	9.525	97	18419	4.644
121) 1,3,5-Trinitrobenzene	(4)	9.607	213	6795	6.494
122) Diallate (peak 1)	(4)	9.647	86	46414	3.540
123) Phorate	(4)	9.653	75	76418	4.269
124) Phenacetin	(4)	9.659	108	55095	4.818
125) 4-Bromophenyl-phenylether	(4)	9.723	248	23075	4.985
126) Diallate (peak 2)	(4)	9.735	86	9262	1.154
127) Hexachlorobenzene	(4)	9.770	284	22933	5.054
128) Dimethoate	(4)	9.811	87	44875	4.834
130) Atrazine	(4)	9.886	200	25459	5.852
131) Pentachlorophenol	(4)	9.962	266	13247	4.543
133) 4-Aminobiphenyl	(4)	9.974	169	85284	5.582
132) Pentachloronitrobenzene	(4)	9.980	237	9911	4.761
134) Pronamide	(4)	10.038	173	38476	4.839
135)*Phenanthrene-d10	(4)	10.155	188	459424	20.000
136) Dinoseb	(4)	10.155	211	14124	6.416
137) Phenanthrene	(4)	10.172	178	134794	5.092
138) Anthracene	(4)	10.225	178	132279	5.057
140) Carbazole	(4)	10.382	167	126406	5.069
141) Methyl parathion	(4)	10.528	109	29682	4.441
142) Di-n-butylphthalate	(4)	10.749	149	149969	4.729
143) Parathion	(4)	10.918	109	17257	4.044
144) 4-Nitroquinoline-1-oxide	(4)	10.930	190	6857	3.918

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:22
Target 3.5 esignature user ID: jmg00346

ASX73 0746

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0587.d
Injection date and time: 17-JUL-2012 21:09

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD005

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.198	193	14971	4.911
147) Fluoranthene	(4)	11.338	202	132785	5.057
152) Benzidine	(5)	11.478	184	235621	13.894
167) *Pyrene-d10	(5)	11.542	212	504773	20.000
154) Pyrene	(5)	11.559	202	145498	5.022
156) $Terphenyl-d14	(5)	11.728	244	84199	4.982
158) p-Dimethylaminoazobenzene	(5)	11.868	225	23471	4.579
159) Chlorobenzilate	(5)	11.915	139	40736	4.960
160) 3,3'-Dimethylbenzidine	(5)	12.195	212	60531	4.045
161) Butylbenzylphthalate	(5)	12.224	149	60352	4.801
162) 2-Acetylaminofluorene	(5)	12.439	181	38085	4.177
164) 3,3'-Dichlorobenzidine	(5)	12.742	252	36223	4.810
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.748	231	16032	4.198
166) Benzo(a)anthracene	(5)	12.760	228	111565	5.247
168) Chrysene	(5)	12.795	228	113320	5.288
169) bis(2-Ethylhexyl)phthalate	(5)	12.824	149	77107	4.799
189) 6-Methylchrysene	(5)	13.261	242	69710	4.901
170) Di-n-octylphthalate	(6)	13.489	149	107282	3.920
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.838	256	41471	4.750
172) Benzo(b)fluoranthene	(6)	13.844	252	88786	4.597
173) Benzo(k)fluoranthene	(6)	13.873	252	106214	5.556
174) Benzo(a)pyrene	(6)	14.165	252	83452	4.819
175) *Perylene-d12	(6)	14.223	264	305222	20.000
176) 3-Methylcholanthrene	(6)	14.526	268	39637	4.674
190) Dibenz(a,h)acridine	(6)	15.132	279	46869	3.832
191) Dibenz(a,j)acridine	(6)	15.191	279	56889	4.296
177) Indeno(1,2,3-cd)pyrene	(6)	15.406	276	80476	4.807
178) Dibenz(a,h)anthracene	(6)	15.435	278	65835	4.787
179) Benzo(g,h,i)perylene	(6)	15.744	276	68833	4.870
129) Diallate TRANS/CIS	(4)			55676	4.703

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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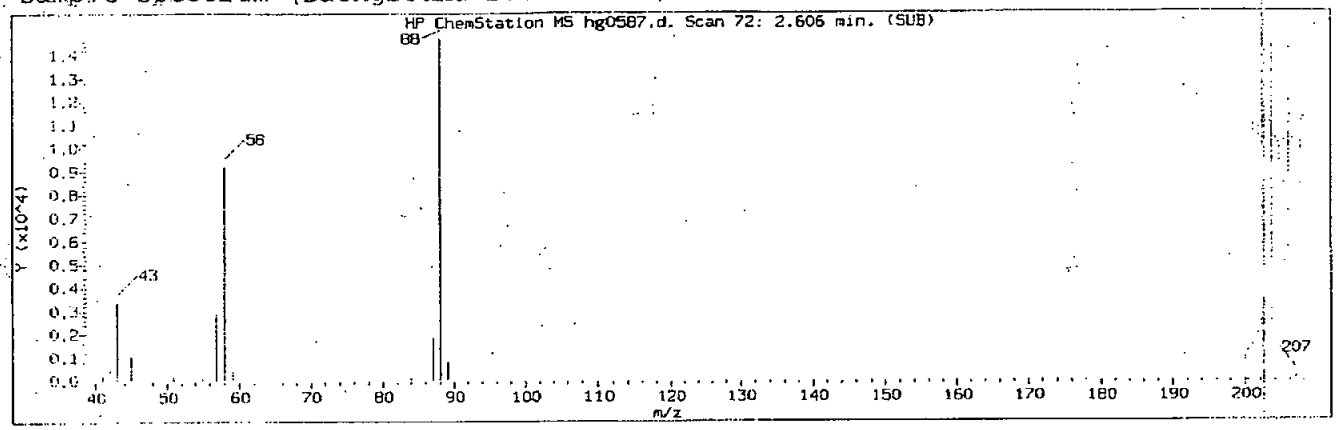
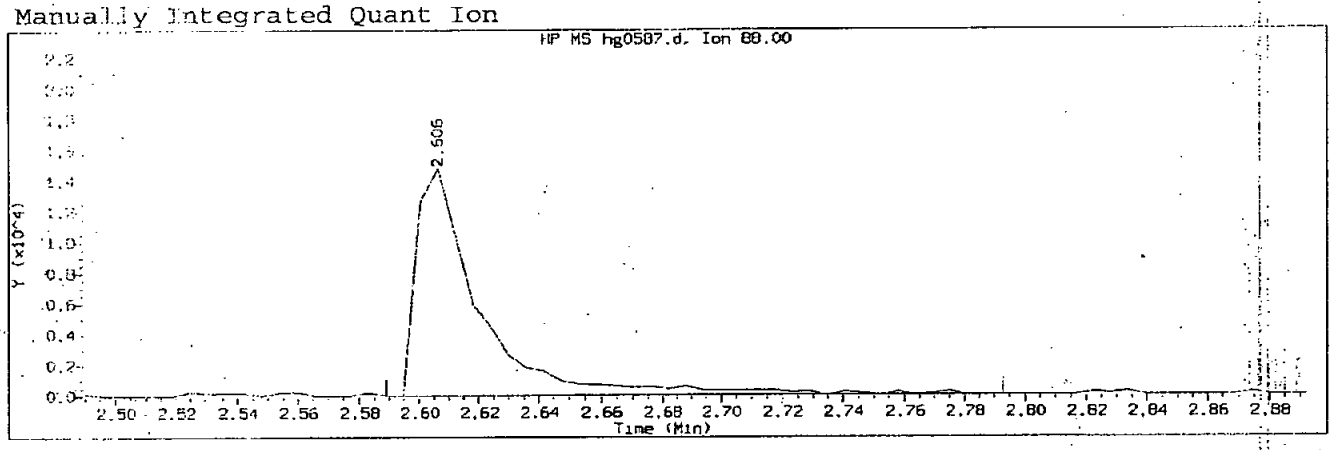
on 07/18/2012 at 04:22
Target 3.5 esignature user ID: jmg00346

ASX73 0747

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0587.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:09 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1982

Compound Number	: 1		
Compound Name	: 1,4-Dioxane		
Scan Number	: 72		
Retention Time (minutes)	: 2.606		
Quant Ion	: 88.00		
Area (flag)	: 21762M		
On-Column Amount (ng/ul)	: 5.4104		
Integration start scan	: 68	Integration stop scan:	103
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

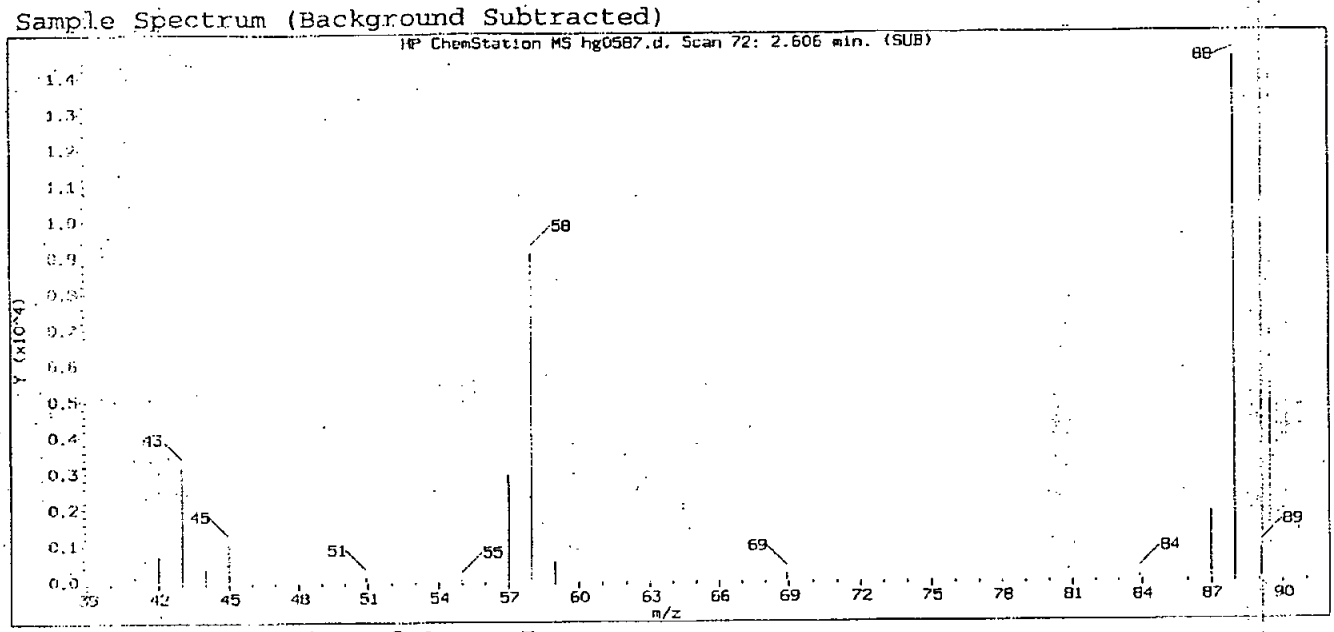
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

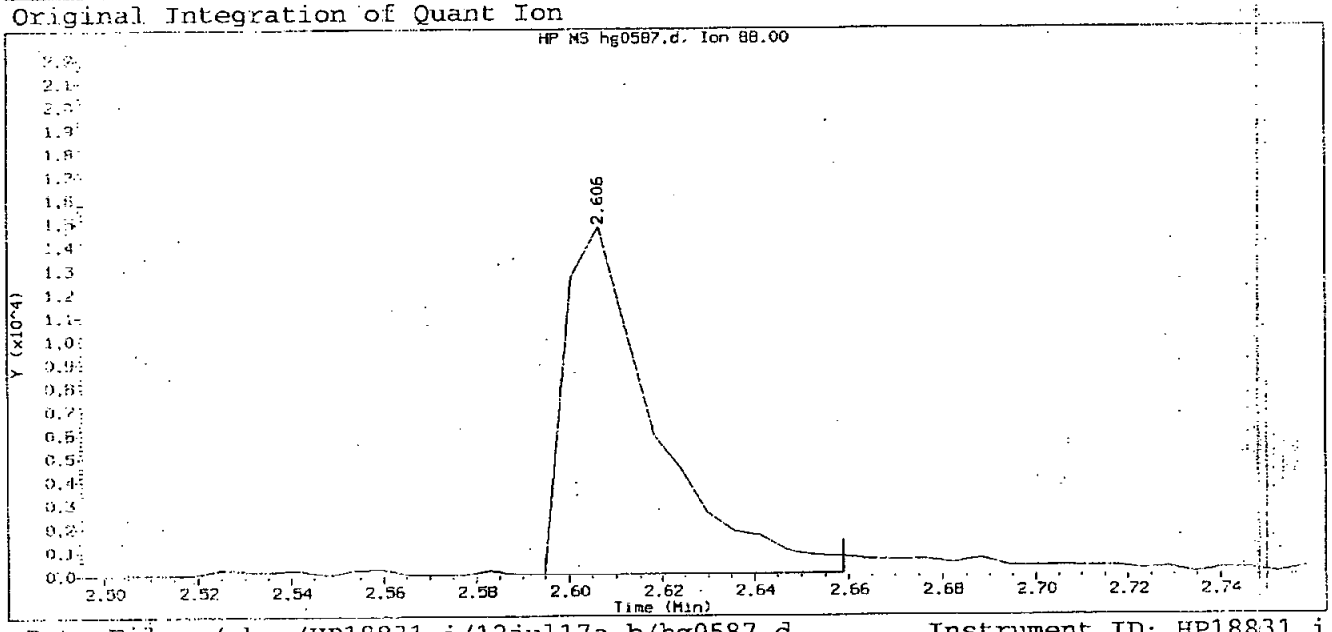
Matthew E. Barton
Senior Specialist

ASX73 9748

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0587.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:09 Analyst ID: hb01996

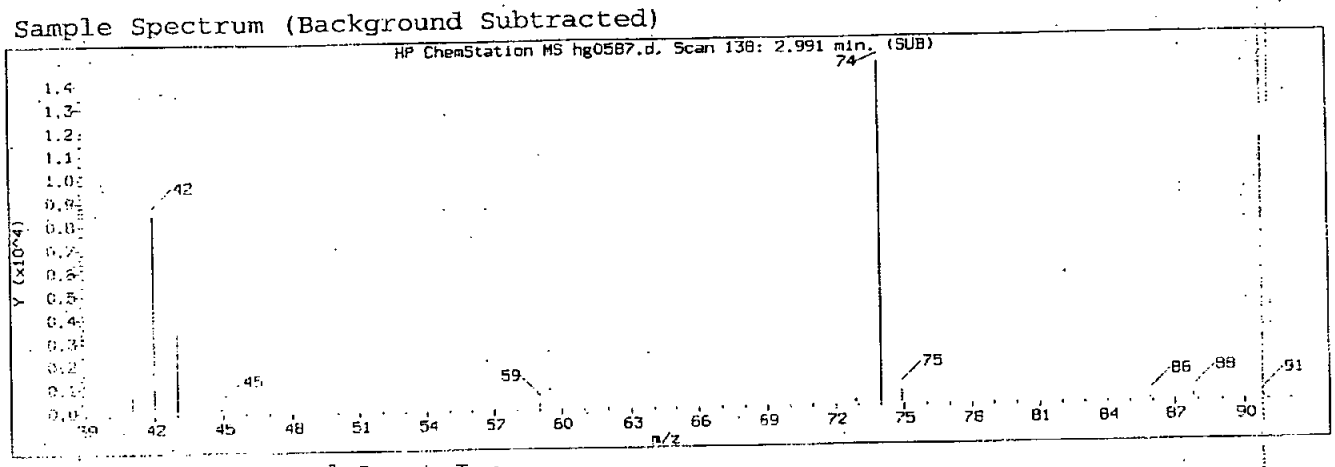
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:26
Date, time and analyst ID of latest file update: 17-Jul-2012 21:26 Automation

Sample Name: SSTD005 Lab Sample ID: STD1982

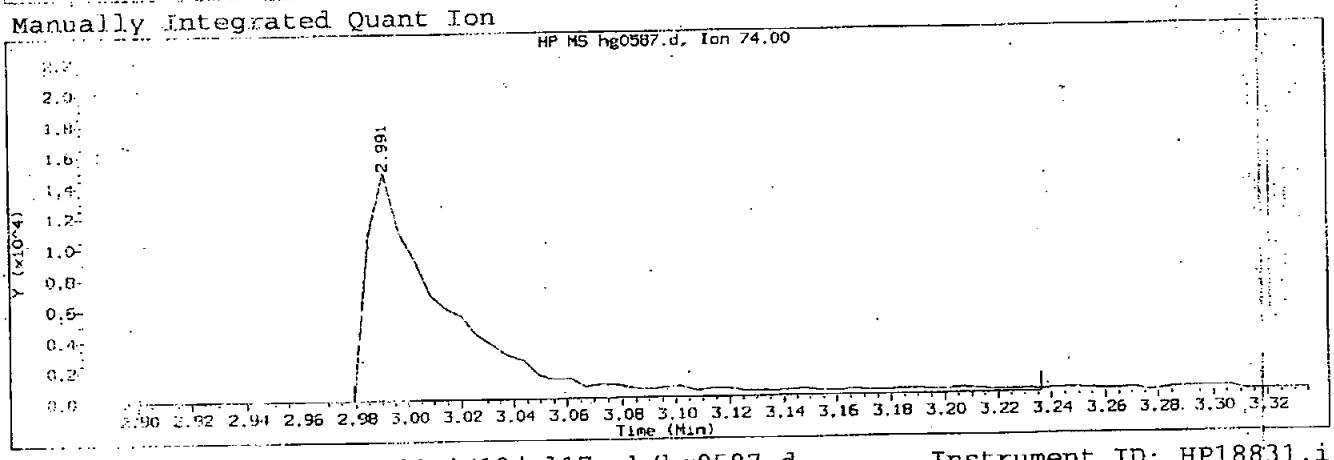
Compound Number	: 1		
Compound Name	: 1,4-Dioxane		
Scan Number	: 72		
Retention Time (minutes)	: 2.606		
Quant Ion	: 88.00		
Area	: 19650		
On-column Amount (ng/ul)	: 4.9724		
Integration start scan	: 69	Integration stop scan:	80
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0587.d
Injection date and time: 17-JUL-2012 21:09

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sublist used: newall1

Sample Name: SSTD005

Lab Sample ID: STD1982

Compound Number	: 2	
Compound Name	: N-Nitrosodimethylamine	
Scan Number	: 138	
Retention Time (minutes)	: 2.991	
Quant Ion	: 74.00	
Area (flag)	: 32492M	
On-Column Amount (ng/ul)	: 4.9076	
Integration start scan	: 135	Integration stop scan: 179
Y at integration start	: 0	Y at integration end: 0

Reason for manual integration: improper integration

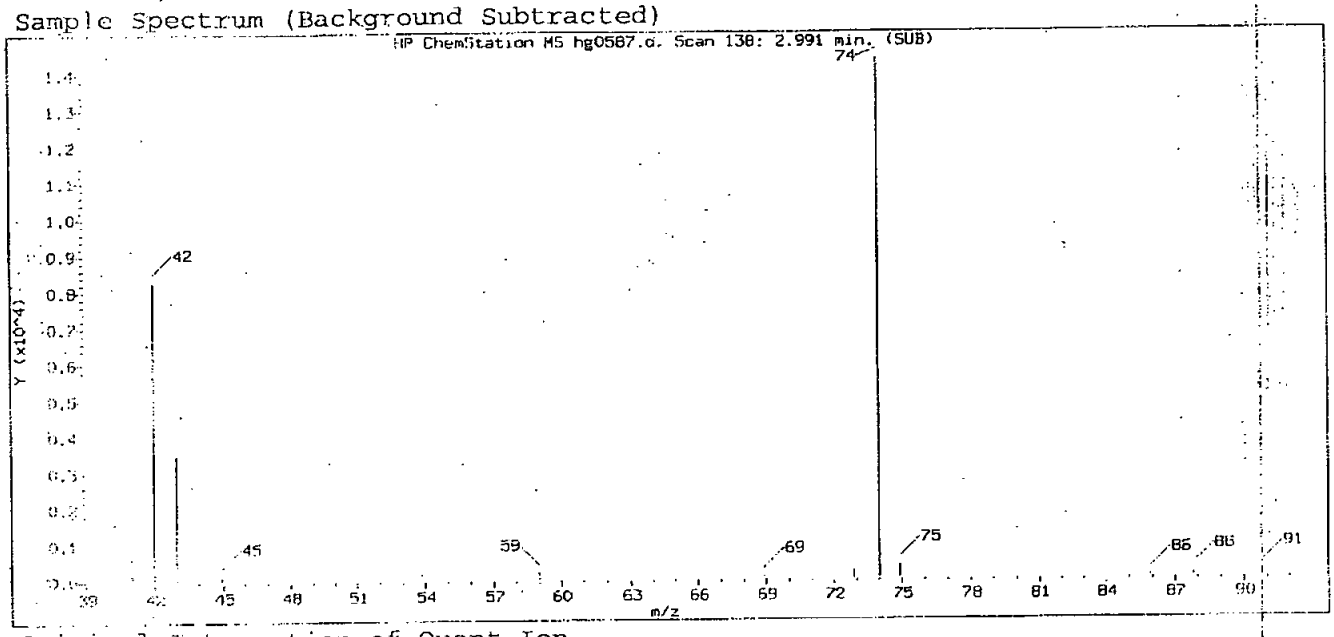
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

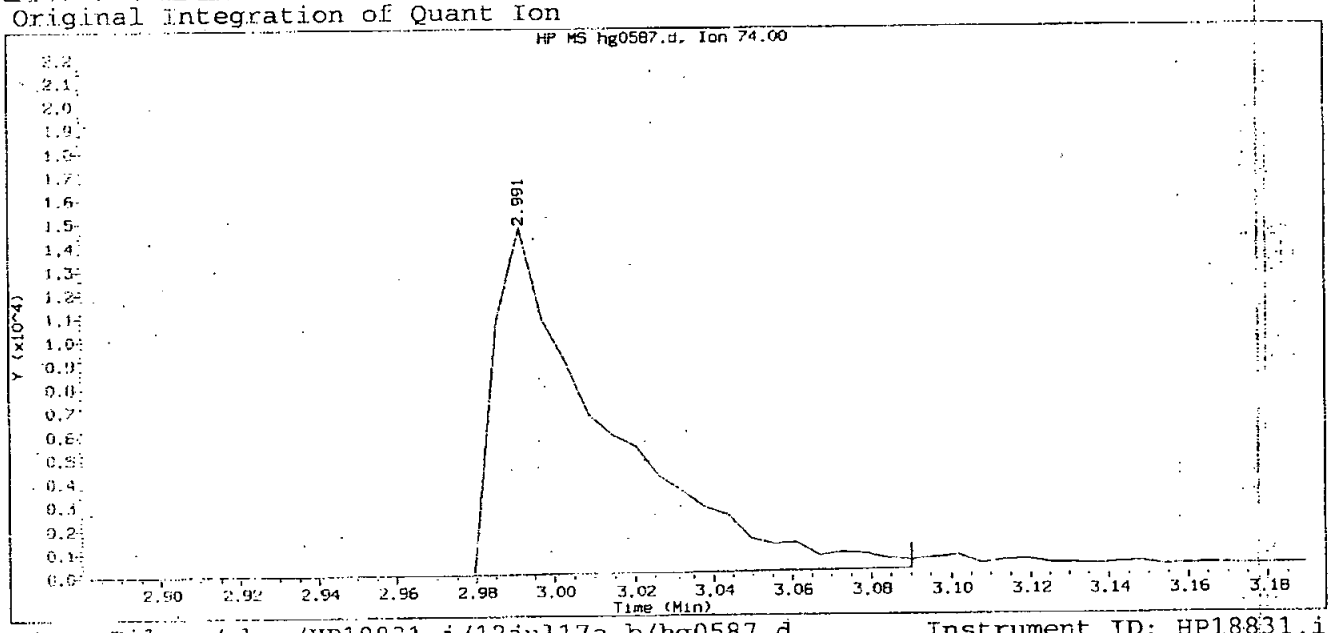
Matthew E. Barton
Senior Specialist

ASX73 0750

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0587.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:09 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:26
Date, time and analyst ID of latest file update: 17-Jul-2012 21:26 Automation

Sample Name: SSTD005 Lab Sample ID: STD1982

Compound Number	: 2		
Compound Name	: N-Nitrosodimethylamine		
Scan Number	: 138		
Retention Time (minutes)	: 2.991		
Quant Ion	: 74.00		
Area	: 28799		
On-column Amount (ng/ul)	: 4.4323		
Integration start scan	: 135	Integration stop scan:	154
Y at integration start	: 0	Y at integration end:	155

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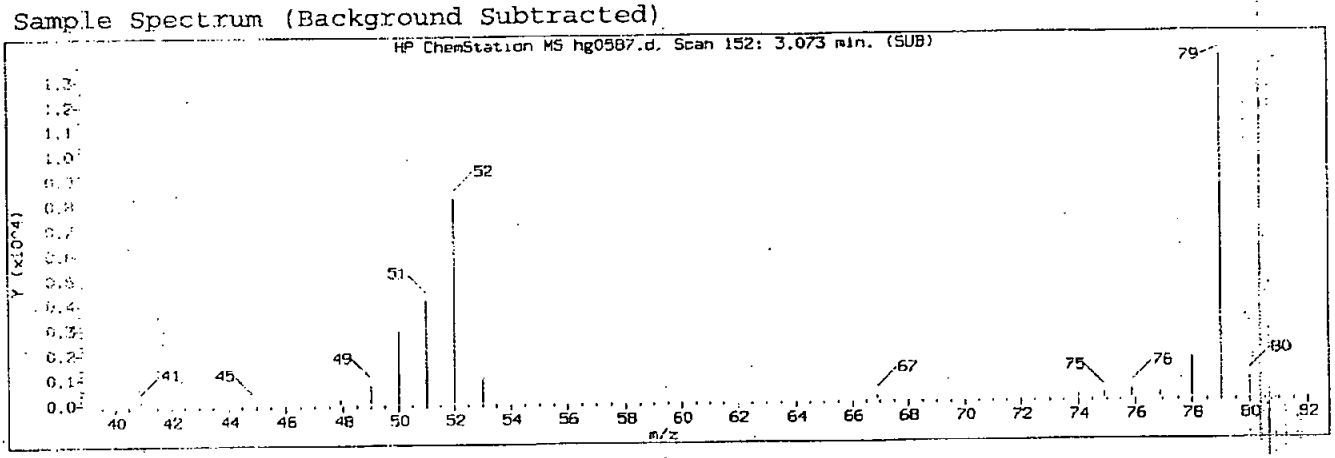
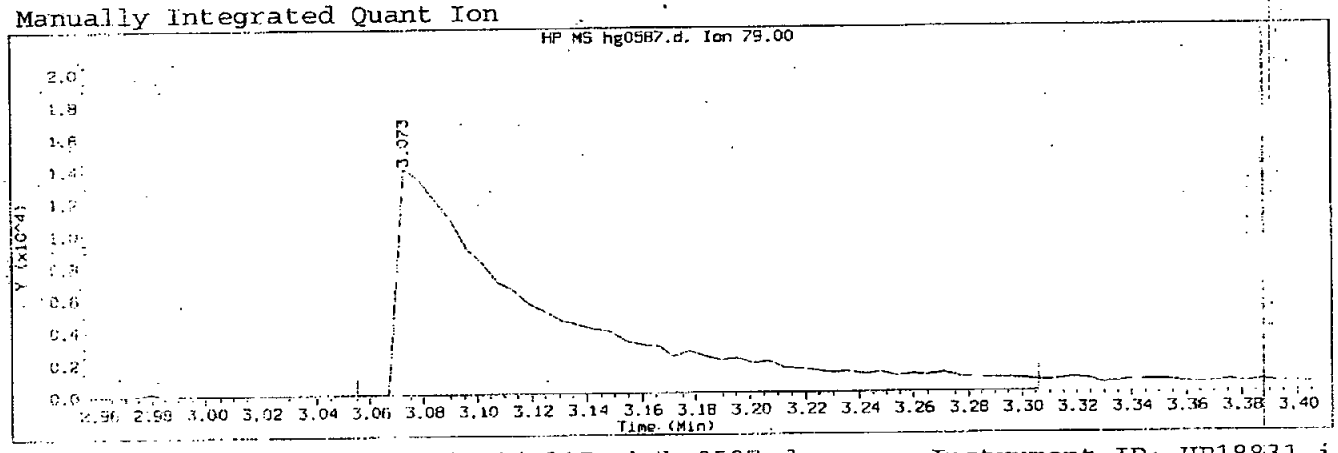
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0587.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:09 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1982

Compound Number	: 3		
Compound Name	: Pyridine		
Scan Number	: 152		
Retention Time (minutes)	: 3.073		
Quant Ion	: 79.00		
Area (flag)	: 52675M		
On-Column Amount (ng/ul)	: 4.7716		
Integration start scan	: 148	Integration stop scan:	191
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

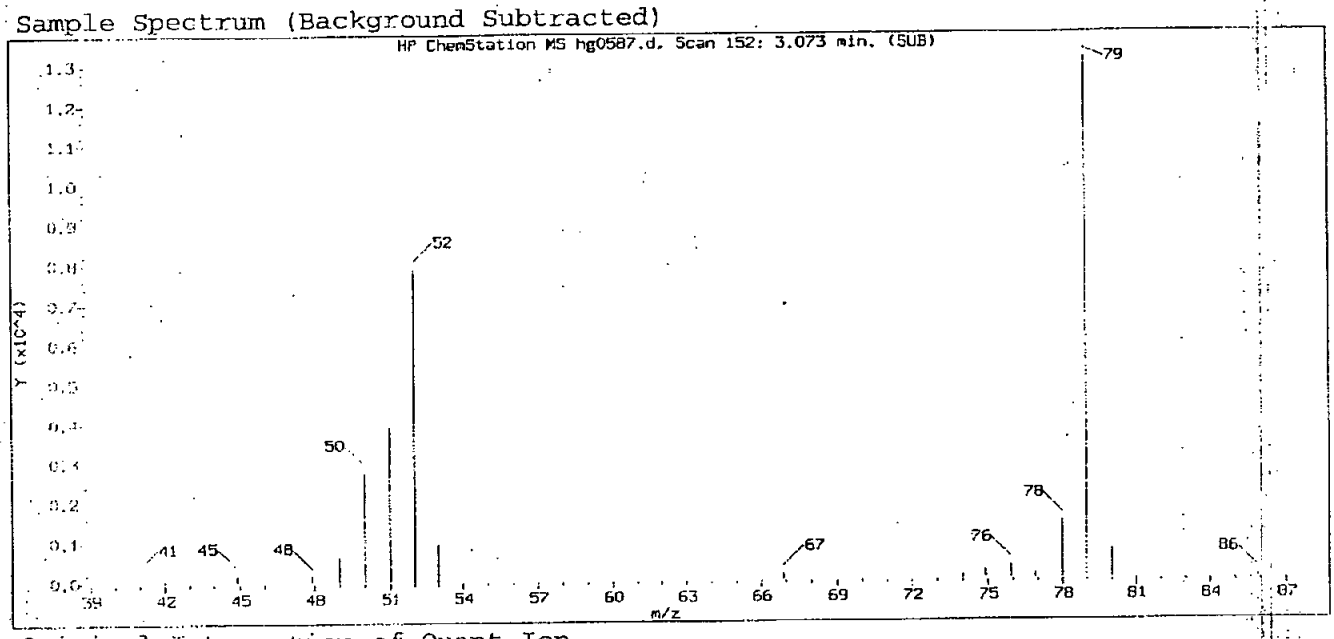
GC/MS audit/management approval: _____

JUL 18 2012

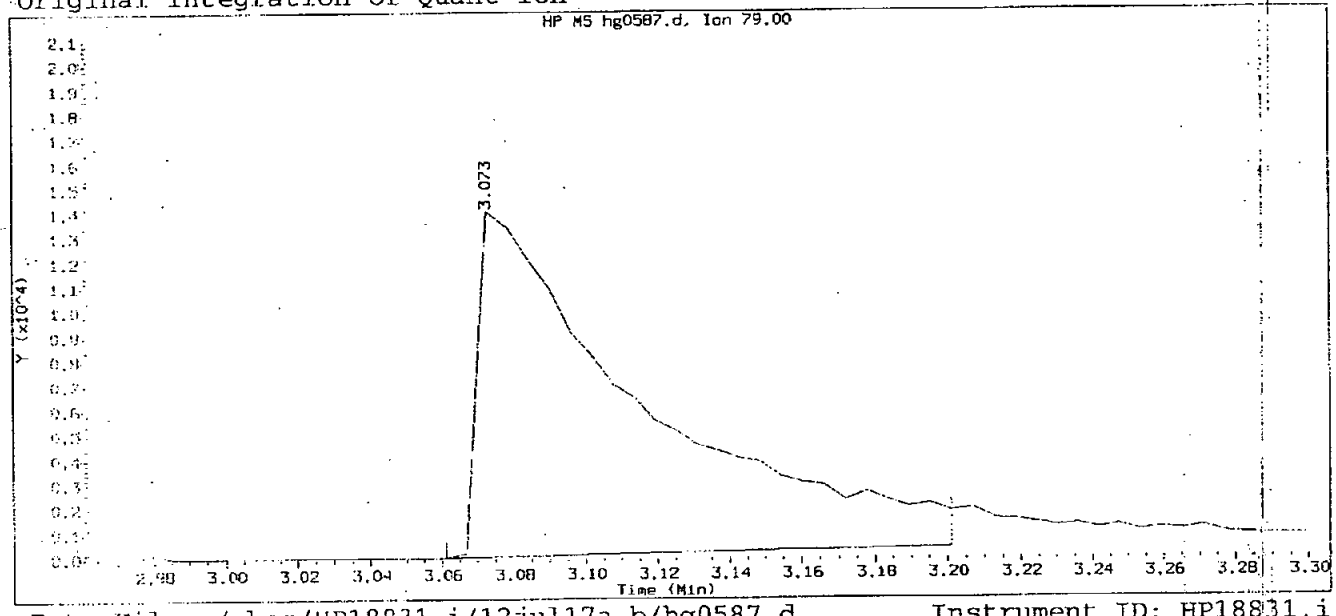
Matthew E. Barton
Senior Specialist

ASX73 0752

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0587.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:09 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:26
Date, time and analyst ID of latest file update: 17-Jul-2012 21:26 Automation

Sample Name: SSTD005 Lab Sample ID: STD1982

Compound Number	: 3		
Compound Name	: Pyridine		
Scan Number	: 152		
Retention Time (minutes)	: 3.073		
Quant Ion	: 79.00		
Area	: 43861		
On-column Amount (ng/ul)	: 4.0818		
Integration start scan	: 149	Integration stop scan:	173
Y at integration start	: 0	Y at integration end:	358

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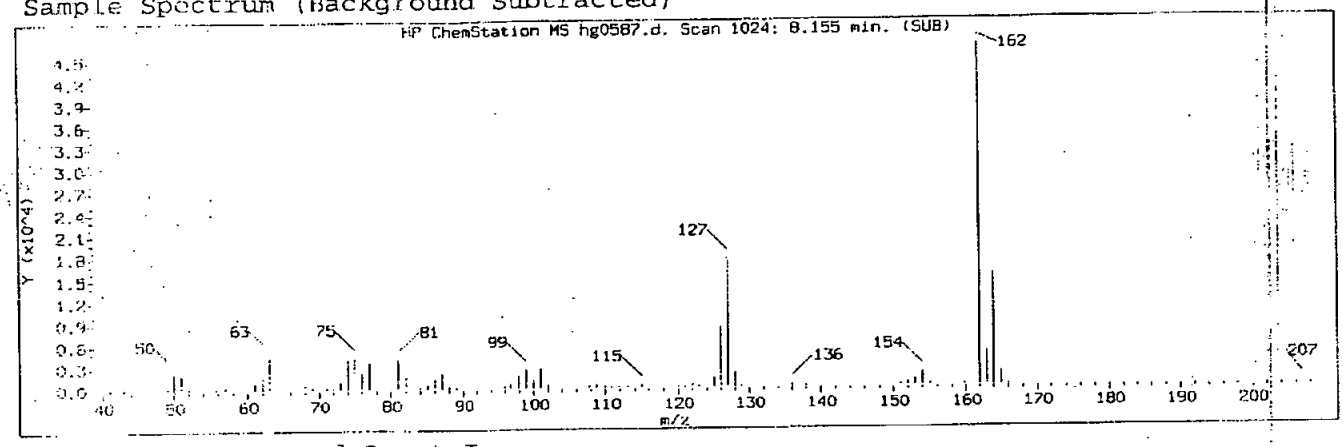
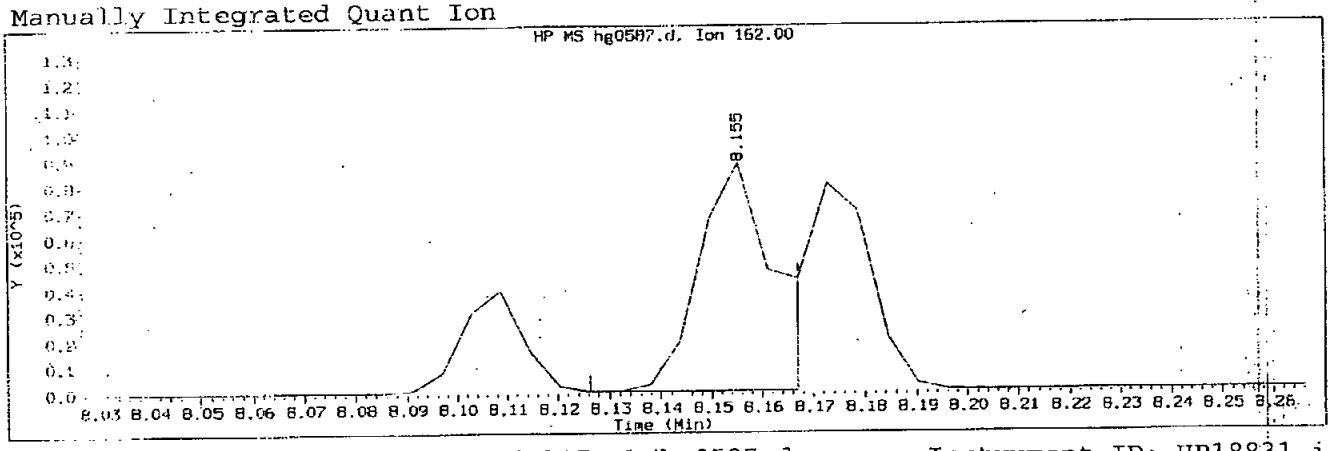
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0587.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:09 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1982

Compound Number	: 84		
Compound Name	: 2-Chloronaphthalene		
Scan Number	: 1024		
Retention Time (minutes)	: 8.155		
Quant Ion	: 162.00		
Area (flag)	: 92936M		
On-Column Amount (ng/ul)	: 6.1327		
Integration start scan	: 1018	Integration stop scan:	1025
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

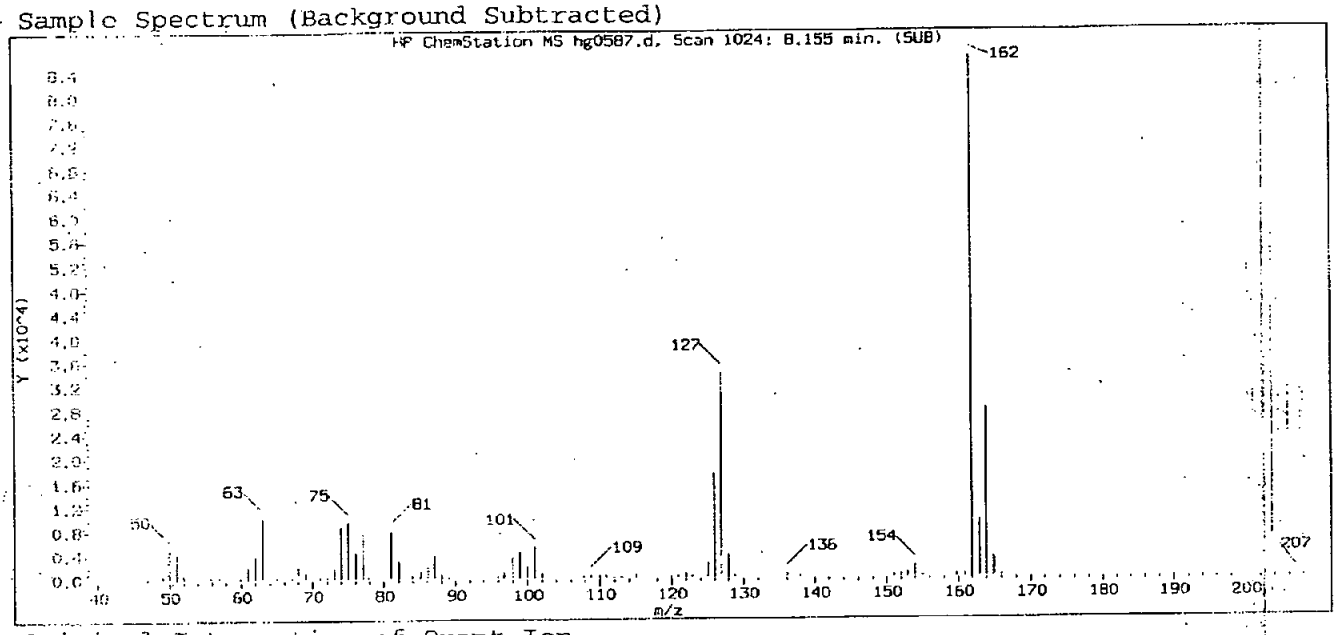
GC/MS audit/management approval: _____

JUL 18 2012

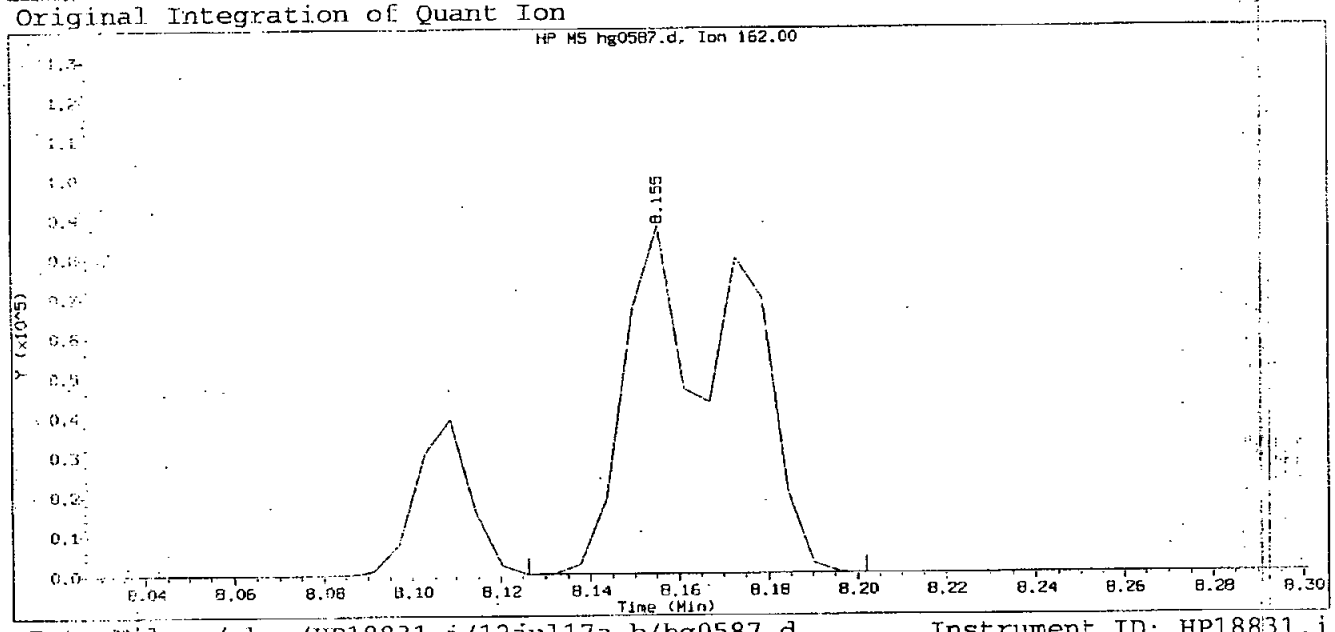
Matthew E. Barton
Senior Specialist

ASX73 0754

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0587.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:09 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:26
Date, time and analyst ID of latest file update: 17-Jul-2012 21:26 Automation

Sample Name: SSTD005 Lab Sample ID: STD1982

Compound Number	: 84		
Compound Name	: 2-Chloronaphthalene		
Scan Number	: 1024		
Retention Time (minutes)	: 8.155		
Quant Ion	: 162.00		
Area	: 153143		
On-column Amount (ng/ul)	: 8.8809		
Integration start scan	: 1018	Integration stop scan:	1031
Y at integration start	: 0	Y at integration end:	0

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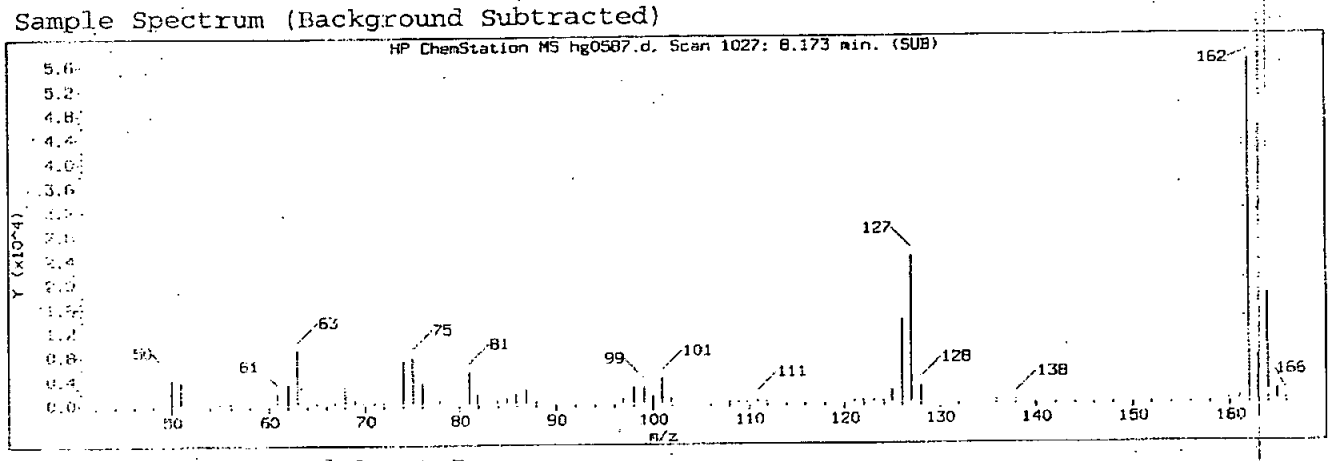
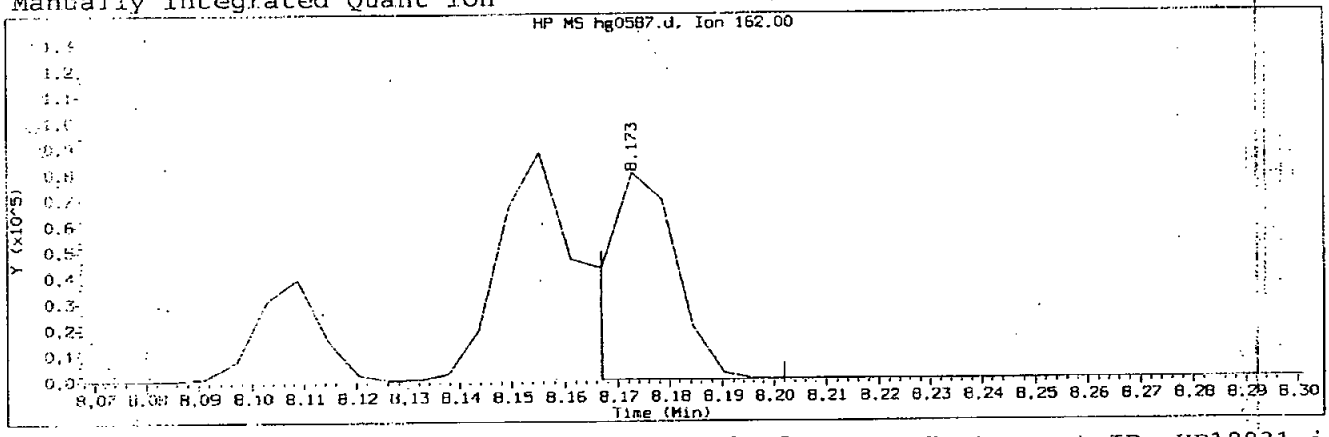
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0587.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:09 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD005 Lab Sample ID: STD1982

Compound Number	: 85		
Compound Name	: 1-Chloronaphthalene		
Scan Number	: 1027		
Retention Time (minutes)	: 8.173		
Quant Ion	: 162.00		
Area (flag)	: 75302M		
On-Column Amount (ng/ul)	: 5.0017		
Integration start scan	: 1025	Integration stop scan:	1031
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

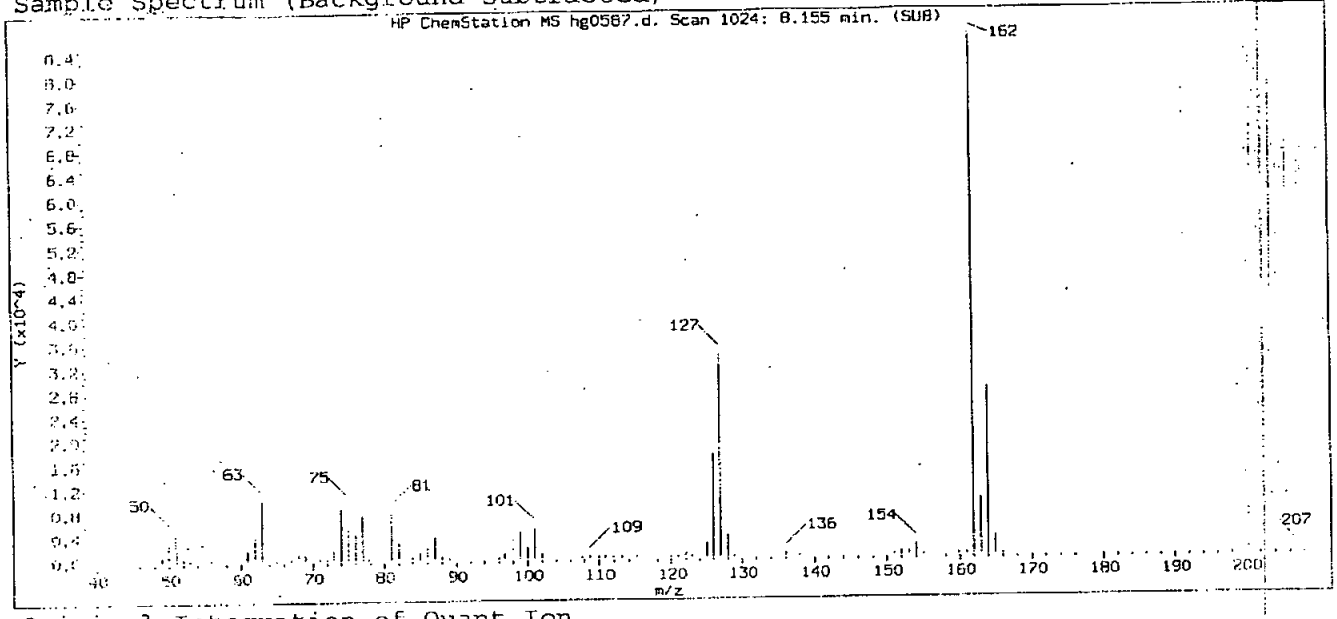
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: _____
JUL 18 2012

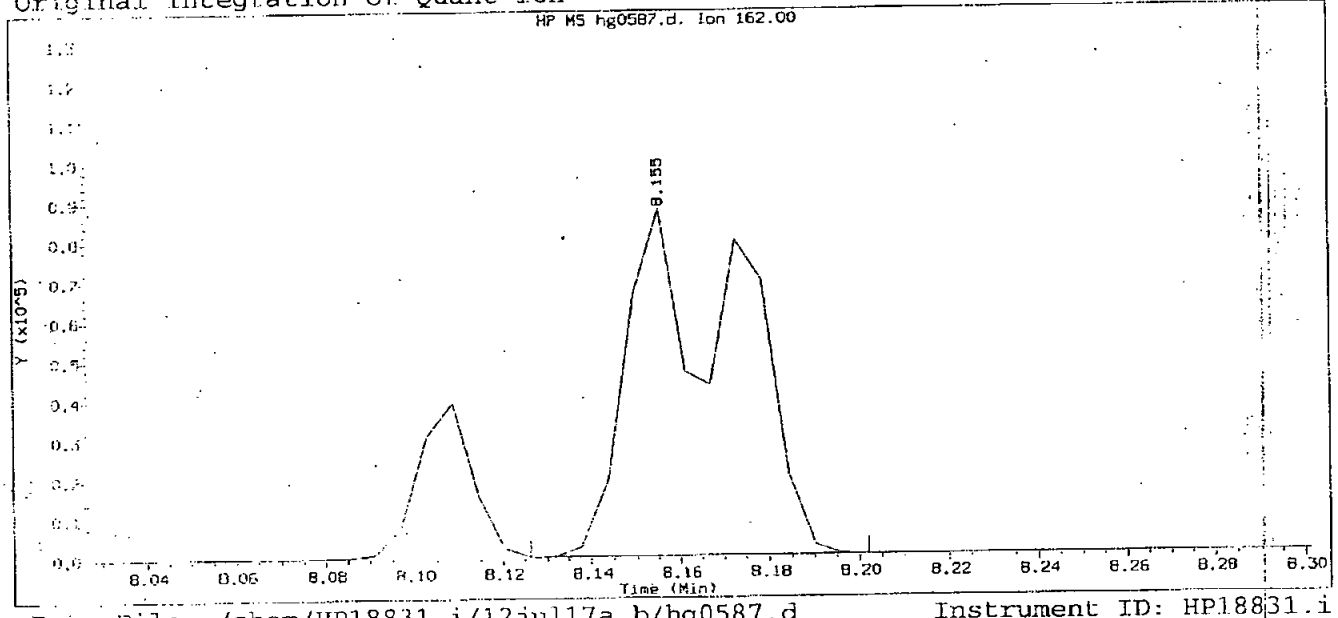
Matthew E. Barton
Senior Specialist

ASX73 0756

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0587.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:09 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:26
Date, time and analyst ID of latest file update: 17-Jul-2012 21:26 Automation

Sample Name: SSTD005 Lab Sample ID: STD1982

Compound Number	: 85		
Compound Name	: 1-Chloronaphthalene		
Scan Number	: 1024		
Retention Time (minutes)	: 8.155		
Quant Ion	: 162.00		
Area	: 153142		
On-column Amount (ng/ul)	: 8.7801		
Integration start scan	: 1018	Integration stop scan:	1031
Y at integration start	: 0	Y at integration end:	0

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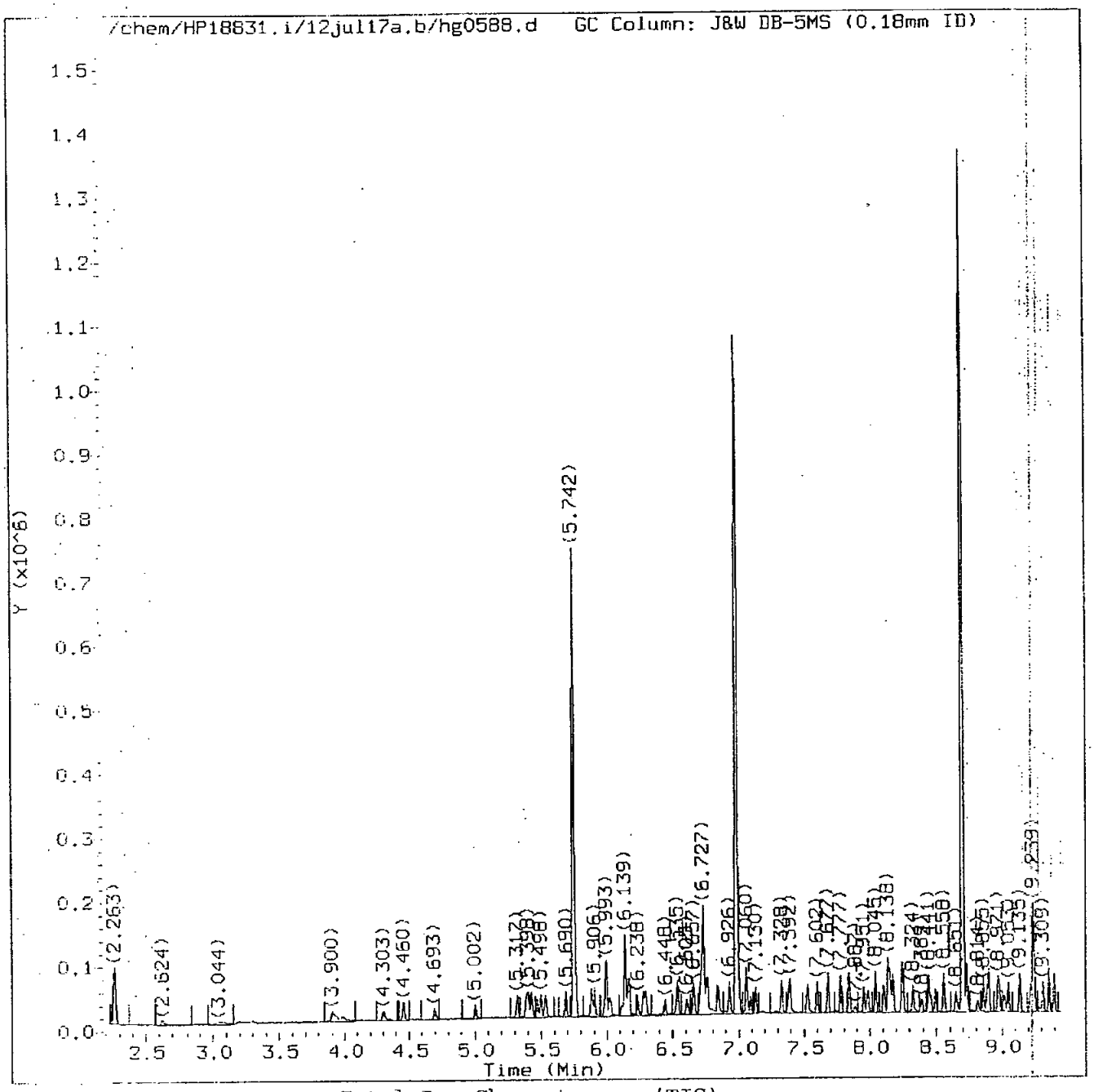
Target 3.5 esignature user ID: jmg00346



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0588.d
Injection date and time: 17-JUL-2012 21:32

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001

Lab Sample ID: STD1982

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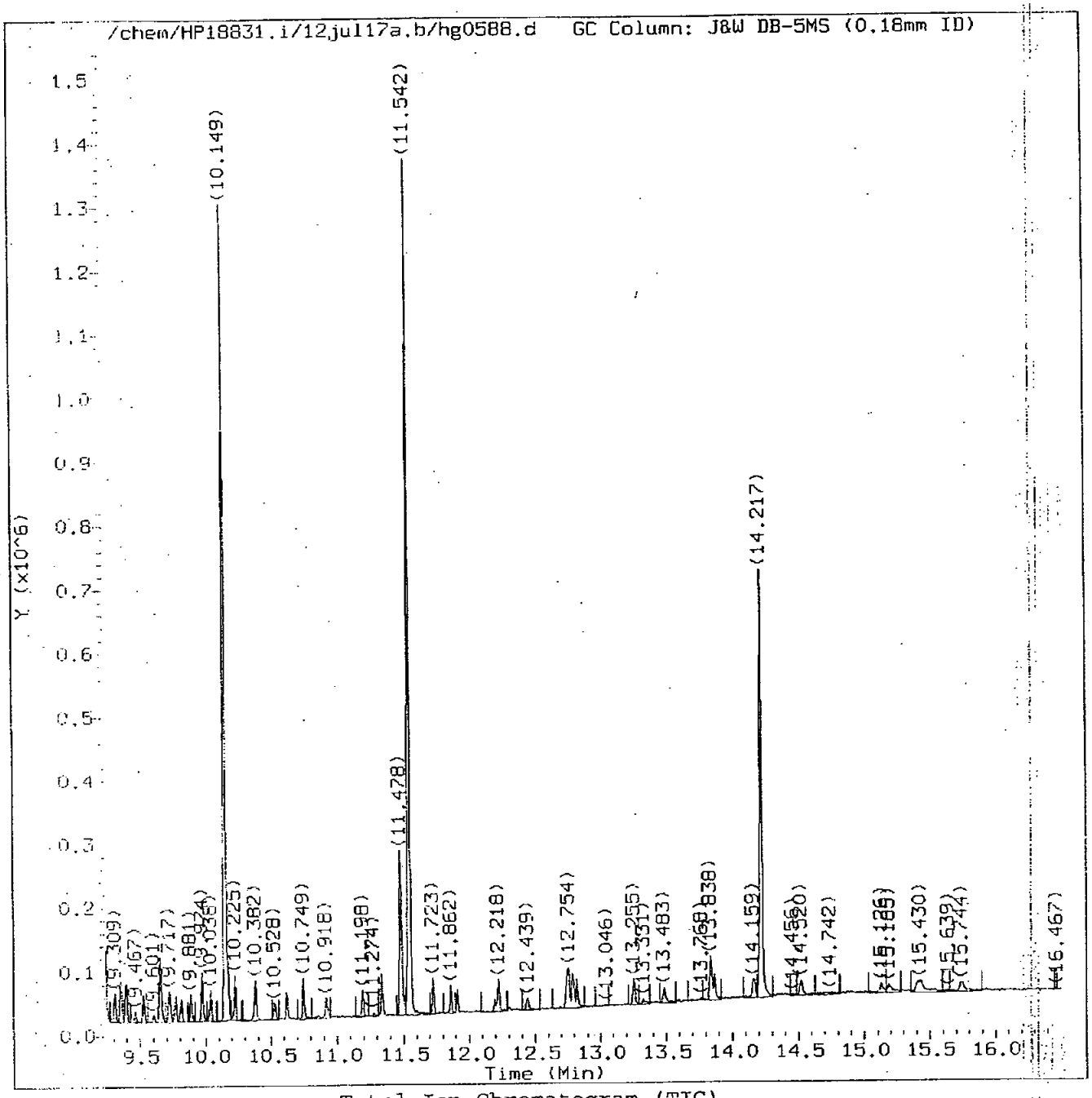
on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

ASX73 0758



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0588.d
Injection date and time: 17-JUL-2012 21:32

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001

Lab Sample ID: STD1982

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on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

ASX73 0759

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0588.d
Injection date and time: 17-JUL-2012 21:32

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.624	88	4835M	1.155
2) N-Nitrosodimethylamine	(1)	3.044	74	5577M	0.810
3) Pyridine	(1)	3.189	79	13999M	1.219
5) 2-Picoline	(1)	3.900	93	12605M	1.064
6) N-Nitrosomethylethylamine	(1)	3.988	88	5753	1.058
7) Methyl methanesulfonate	(1)	4.303	80	6036	0.973
9)$2-Fluorophenol	(1)	4.460	112	8361	0.923
10) N-Nitrosodiethylamine	(1)	4.693	102	4720	0.910
11) Ethyl methanesulfonate	(1)	5.008	109	4799	0.970
12) Benzaldehyde	(1)	5.317	77	8364	0.959
14)$Phenol-d5	(1)	5.387	99	11550	0.900
15)$Phenol-d6	(1)	5.387	99	11550	0.900
16) Phenol	(1)	5.398	94	14153	0.933
13) Aniline	(1)	5.428	93	16501	0.946
18) bis(2-Chloroethyl)ether	(1)	5.498	93	11094	0.983
19) 2-Chlorophenol	(1)	5.532	128	7702	0.917
20) 1,3-Dichlorobenzene	(1)	5.690	146	8519	1.005
21)*1,4-Dichlorobenzene-d4	(1)	5.748	152	107505	20.000
22) 1,4-Dichlorobenzene	(1)	5.760	146	8975	1.037
24) Benzyl alcohol	(1)	5.882	108	6428	0.882
25) 1,2-Dichlorobenzene	(1)	5.906	146	8078	1.003
26) 2-Methylphenol	(1)	5.987	108	9005	0.929
206) Indene	(1)	5.993	115	14819	0.972
28) bis(2-Chloroisopropyl)ether	(1)	6.022	45	14506	1.097
27) 2,2'-oxybis(1-Chloropropane)	(1)	6.022	45	14506	1.097
29) N-Nitrosopyrrolidine	(1)	6.115	100	4642	0.882
30) Acetophenone	(1)	6.139	105	14903	1.010
33) 4-Methylphenol	(1)	6.139	108	10115	0.964
31) N-Nitroso-di-n-propylamine	(1)	6.144	70	9135	1.025
32) N-Nitrosomorpholine	(1)	6.156	56	6427	1.022
34) o-Toluidine	(1)	6.168	106	15167	0.973
37) Hexachloroethane	(1)	6.238	117	3651	0.954
38)$Nitrobenzene-d5	(2)	6.279	82	11488	0.927
39) Nitrobenzene	(2)	6.296	77	12273	0.952
40) N-Nitrosopiperidine	(2)	6.448	114	4540	0.927
41) Isophorone	(2)	6.535	82	22681	0.937
42) 2-Nitrophenol	(2)	6.611	139	3997	0.877
44) 2,4-Dimethylphenol	(2)	6.657	107	10071	0.940
47) Benzoic acid	(2)	6.727	105	66515	8.053
45) O,O,O-triethylphosphorothioate	(2)	6.733	198	4640	1.098

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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Target 3.5 esignature user ID: jmg00346

ASX73 0760

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0588.d
Injection date and time: 17-JUL-2012 21:32

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
46) bis(2-Chloroethoxy)methane	(2)	6.756	93	14030	0.962
49) 2,4-Dichlorophenol	(2)	6.838	162	6715	0.977
50) 1,2,4-Trichlorobenzene	(2)	6.926	180	8012	1.055
52) *Naphthalene-d8	(2)	6.978	136	450066	20.000
53) Naphthalene	(2)	7.001	128	27248	1.063
56) 4-Chloroaniline	(2)	7.054	127	10526	1.010
57) 2,6-Dichlorophenol	(2)	7.060	162	6846	1.036
58) Hexachloropropene	(2)	7.089	213	3403	0.763
60) Hexachlorobutadiene	(2)	7.130	225	4186	1.065
194) Quinoline	(2)	7.328	129	17199	1.028
63) Caprolactam	(2)	7.380	113	2974	0.819
64) N-Nitrosodi-n-butylamine	(2)	7.392	84	10213	0.000
68) 4-Chloro-3-methylphenol	(2)	7.526	107	8756	0.930
69) Safrole	(2)	7.602	162	6407	0.978
70) 2-Methylnaphthalene	(2)	7.677	142	15529	0.992
71) 1-Methylnaphthalene	(2)	7.777	142	15545	1.015
72) Hexachlorocyclopentadiene	(3)	7.835	237	2050	0.616
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.841	216	7358	1.021
74) cis-Isosafrole	(3)	7.887	162	1284	0.114
75) 2,4,6-Trichlorophenol	(3)	7.951	196	4439	0.884
77) 2,4,5-Trichlorophenol	(3)	7.986	196	5138	0.926
78) $2-Fluorobiphenyl	(3)	8.045	172	19233	1.067
79) trans-Isosafrole	(3)	8.109	162	6501	0.829
80) Isosafrole	(3)	8.109	162	6501	0.931
83) 1,1'-Biphenyl	(3)	8.138	154	22644	1.056
84) 2-Chloronaphthalene	(3)	8.155	162	15067	0.967
85) 1-Chloronaphthalene	(3)	8.173	162	16759	1.083
88) Diphenyl ether	(3)	8.243	170	12412	1.087
89) 2-Nitroaniline	(3)	8.249	138	4339	0.806
90) 1,4-Naphthoquinone	(3)	8.324	158	5262	0.800
91) 1,4-Dinitrobenzene	(3)	8.389	168	1744	0.594
92) Dimethylphthalate	(3)	8.441	163	18576	1.018
93) 1,3-Dinitrobenzene	(3)	8.458	168	2272	0.659
94) 2,6-Dinitrotoluene	(3)	8.493	165	3474	0.842
95) Acenaphthylene	(3)	8.558	152	23233	0.982
97) 3-Nitroaniline	(3)	8.651	138	3933	0.834
98) *Acenaphthene-d10	(3)	8.697	164	270197	20.000
99) Acenaphthene	(3)	8.727	153	16990	1.049
100) 2,4-Dinitrophenol	(3)	8.767	184	409	0.163
103) 4-Nitrophenol	(3)	8.814	109	2142M	0.657

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0588.d
Injection date and time: 17-JUL-2012 21:32

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.855	250	6252	1.078
105) 2,4-Dinitrotoluene	(3)	8.884	165	3865	0.727
104) Dibenzofuran	(3)	8.896	168	24174	1.053
106) 1-Naphthylamine	(3)	8.971	143	15931	0.966
107) 2,3,4,6-Tetrachlorophenol	(3)	9.018	232	3135	0.791
108) 2-Naphthylamine	(3)	9.053	143	16639	1.022
109) Diethylphthalate	(3)	9.135	149	18080	0.958
110) Thionazin	(3)	9.216	107	3556	0.917
111) Fluorene	(3)	9.234	166	19065	1.038
113) 5-Nitro-o-toluidine	(3)	9.239	152	4496	0.854
114) 4-Nitroaniline	(3)	9.239	138	4155	0.874
112) 4-Chlorophenyl-phenylether	(3)	9.239	204	9820	1.109
115) 4,6-Dinitro-2-methylphenol	(4)	9.280	198	1102	0.325
202) NDPA as diphenylamine	(4)	9.356	169	15821	0.937
117) N-Nitrosodiphenylamine	(4)	9.356	169	15821	0.946
118) 1,2-Diphenylhydrazine	(4)	9.397	77	27375	0.940
119)$2,4,6-Tribromophenol	(3)	9.467	330	1312	0.760
120) Tetraethyldithiopyrophosphate	(4)	9.525	97	3387	0.829
121) 1,3,5-Trinitrobenzene	(4)	9.607	213	852M	3.944
122) Diallate (peak 1)	(4)	9.648	86	8784	0.651
123) Phorate	(4)	9.653	75	12632	0.096
124) Phenacetin	(4)	9.659	108	9628	0.818
125) 4-Bromophenyl-phenylether	(4)	9.723	248	4229	0.887
126) Diallate (peak 2)	(4)	9.735	86	1690M	0.204
127) Hexachlorobenzene	(4)	9.770	284	4702	1.006
128) Dimethoate	(4)	9.811	87	7274	0.761
130) Atrazine	(4)	9.886	200	4336	0.968
131) Pentachlorophenol	(4)	9.962	266	1616	0.538
132) Pentachloronitrobenzene	(4)	9.974	237	1789	0.834
133) 4-Aminobiphenyl	(4)	9.974	169	16285	1.035
134) Pronamide	(4)	10.038	173	6312	0.771
135)*Phenanthrene-d10	(4)	10.149	188	473124	20.000
136) Dinoseb	(4)	10.160	211	1228	4.021
137) Phenanthrene	(4)	10.172	178	27696	1.016
138) Anthracene	(4)	10.225	178	25576	0.950
140) Carbazole	(4)	10.382	167	24438	0.952
141) Methyl parathion	(4)	10.528	109	3919	0.569
142) Di-n-butylphthalate	(4)	10.749	149	25753	0.789
143) Parathion	(4)	10.918	109	2552	0.581
144) 4-Nitroquinoline-1-oxide	(4)	10.930	190	662	1.369

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

ASX73 0762

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0588.d
Injection date and time: 17-JUL-2012 21:32

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 18-JUL-2012 04:17

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.198	193	2813	0.896
147) Fluoranthene	(4)	11.338	202	25024	0.926
152) Benzidine	(5)	11.478	184	108069	6.280
167) *Pyrene-d10	(5)	11.542	212	512191	20.000
154) Pyrene	(5)	11.559	202	30959	1.053
156) $Terphenyl-d14	(5)	11.723	244	16100	0.939
158) p-Dimethylaminoazobenzene	(5)	11.862	225	4027	0.774
159) Chlorobenzilate	(5)	11.915	139	6009	0.721
160) 3,3'-Dimethylbenzidine	(5)	12.195	212	8138	0.536
161) Butylbenzylphthalate	(5)	12.218	149	9592	0.752
162) 2-Acetylaminofluorene	(5)	12.439	181	4742	0.513
164) 3,3'-Dichlorobenzidine	(5)	12.737	252	4802	0.628
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.748	231	2052	0.530
166) Benzo(a)anthracene	(5)	12.754	228	19225	0.891
168) Chrysene	(5)	12.789	228	21066	0.969
169) bis(2-Ethylhexyl)phthalate	(5)	12.818	149	11480	0.704
189) 6-Methylchrysene	(5)	13.255	242	12439	0.862
170) Di-n-octylphthalate	(6)	13.483	149	14130	0.560
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.838	256	7039	0.875
172) Benzo(b)fluoranthene	(6)	13.838	252	16056	0.902
173) Benzo(k)fluoranthene	(6)	13.867	252	16941	0.962
174) Benzo(a)pyrene	(6)	14.159	252	13893M	0.871
175) *Perylene-d12	(6)	14.217	264	281204	20.000
176) 3-Methylcholanthrene	(6)	14.520	268	6154	0.788
190) Dibenz(a,h)acridine	(6)	15.132	279	7503M	0.666
191) Dibenz(a,j)acridine	(6)	15.185	279	10435M	0.855
177) Indeno(1,2,3-cd)pyrene	(6)	15.412	276	13231	0.858
178) Dibenz(a,h)anthracene	(6)	15.435	278	10726	0.847
179) Benzo(g,h,i)perylene	(6)	15.744	276	11193	0.859
129) Diallate TRANS/CIS	(4)			10474	0.859

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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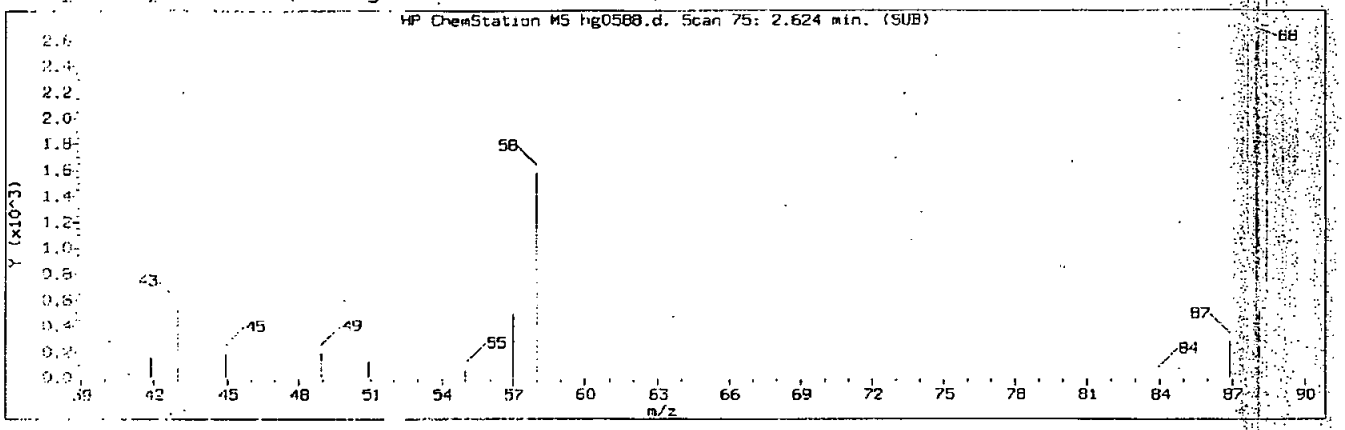
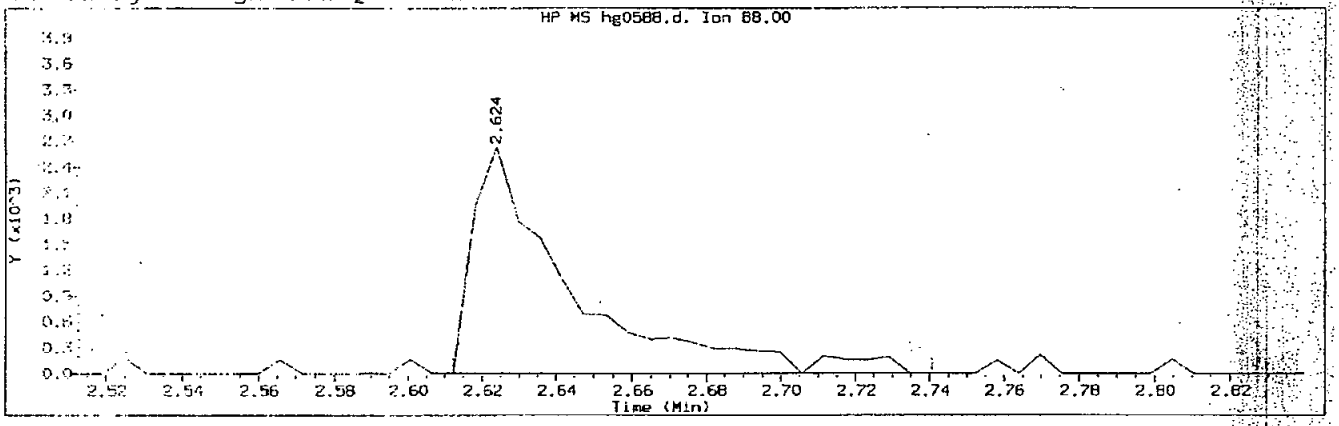
on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

ASX73 0763

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	: 1		
Compound Name	: 1,4-Dioxane		
Scan Number	: 75		
Retention Time (minutes)	: 2.624		
Quant Ion	: 88.00		
Area (flag)	: 4835M		
On-Column Amount (ng/ul)	: 1.1554		
Integration start scan	: 72	Integration stop scan:	94
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

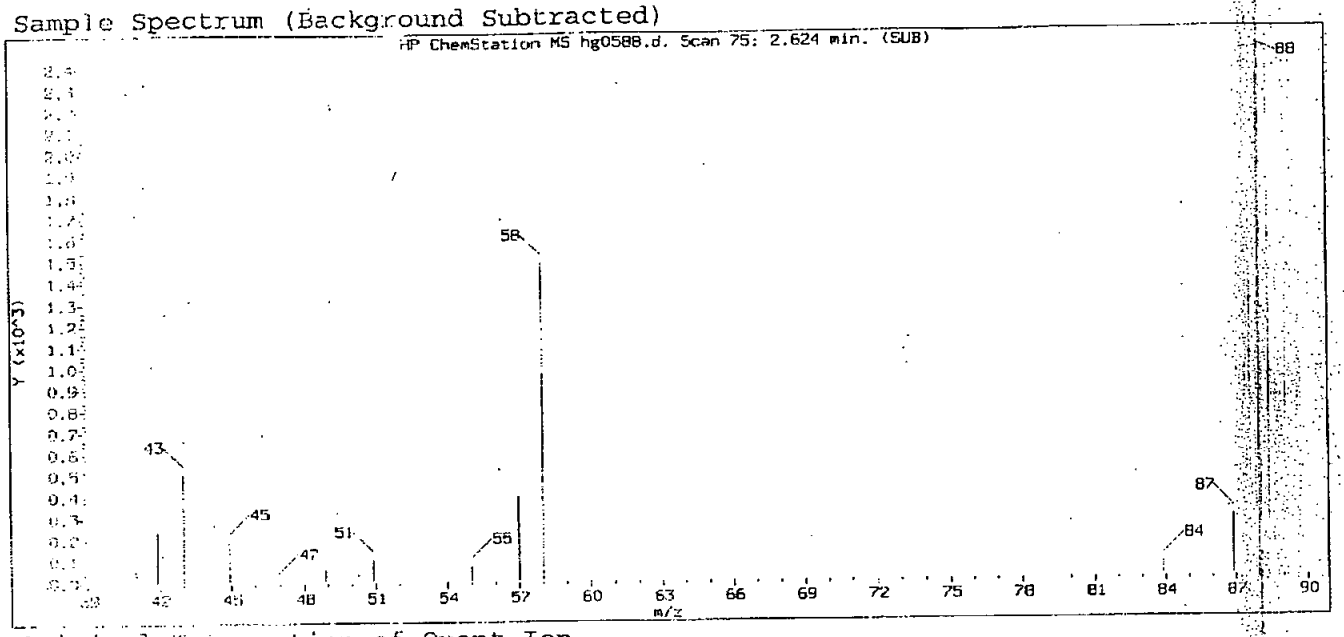
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22 Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

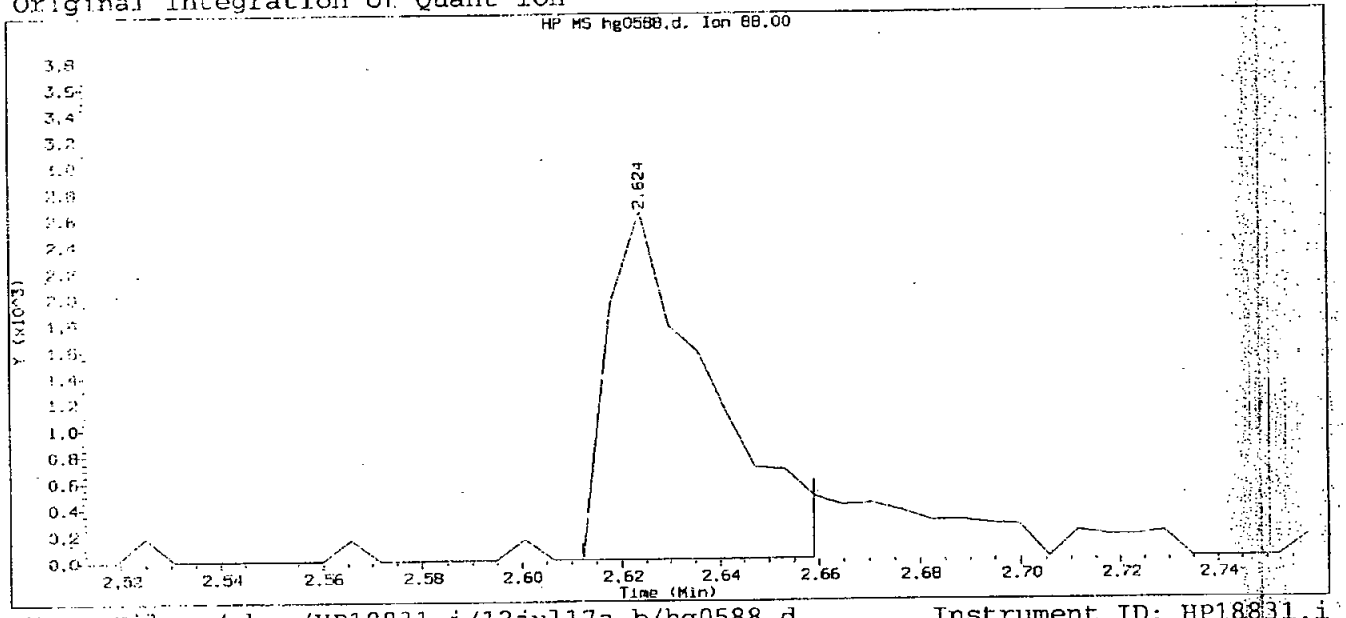
Matthew E. Barton
Senior Specialist

ASX73 0764

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d
Injection date and time: 17-JUL-2012 21:32

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 21:49
Date, time and analyst ID of latest file update: 17-Jul-2012 21:49 Automation

Sublist used: all1

Sample Name: SSTD001

Lab Sample ID: STD1982

Compound Number	: 1		
Compound Name	: 1,4-Dioxane		
Scan Number	: 75		
Retention Time (minutes)	: 2.624		
Quant Ion	: 88.00		
Area	: 3719		
On-column Amount (ng/ul)	: 0.8888		
Integration start scan	: 72	Integration stop scan:	80
Y at integration start	: 0	Y at integration end:	0

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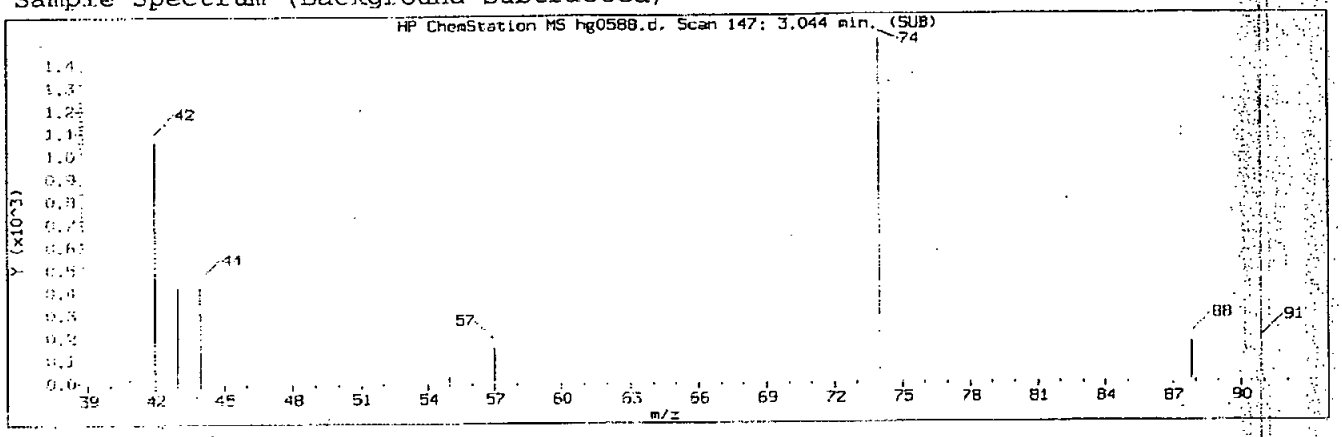
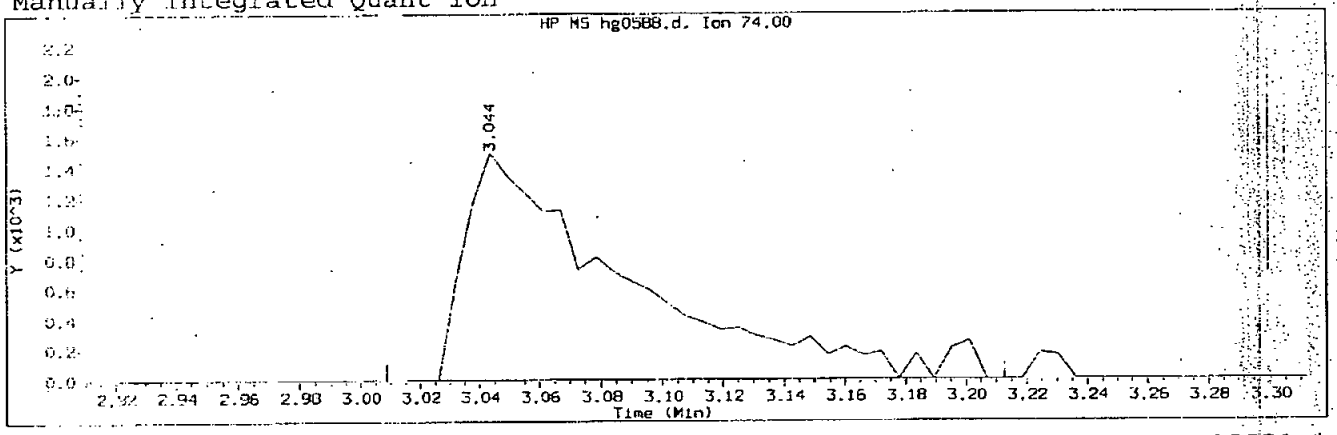
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	: 2		
Compound Name	: N-Nitrosodimethylamine		
Scan Number	: 147		
Retention Time (minutes)	: 3.044		
Quant Ion	: 74.00		
Area (flag)	: 5577M		
On-Column Amount (ng/ul)	: 0.8096		
Integration start scan	: 140	Integration stop scan:	175
Y at integration start	: 0	Y at integration end:	0

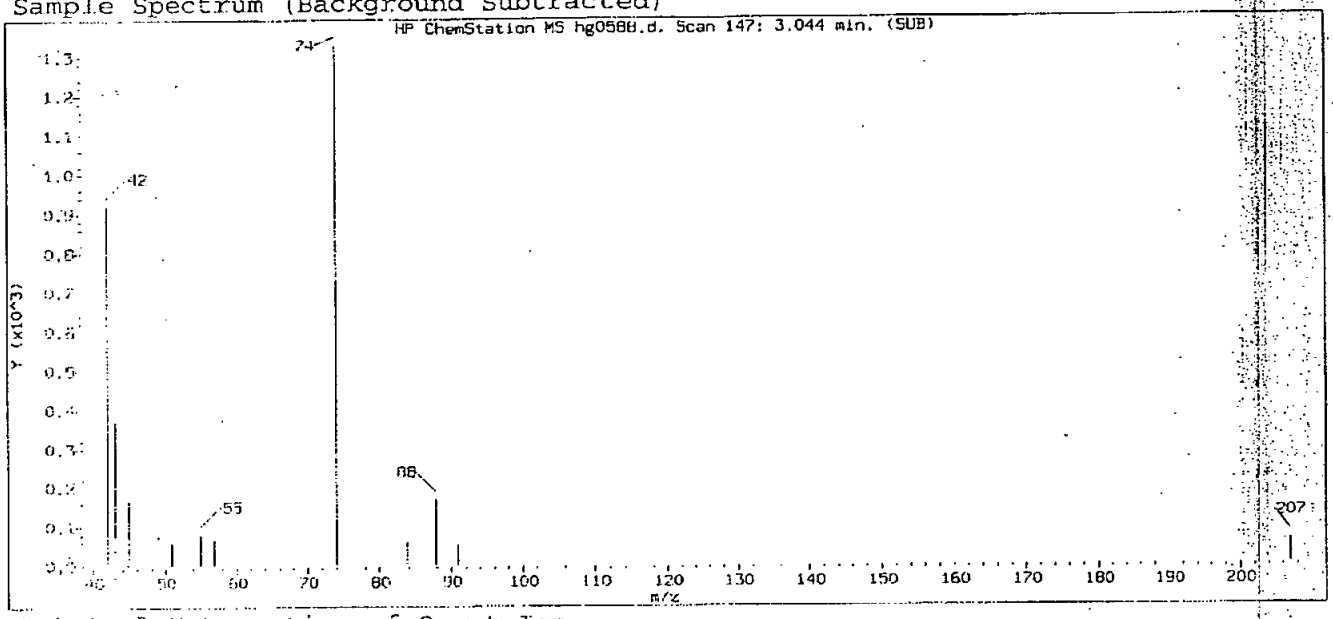
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

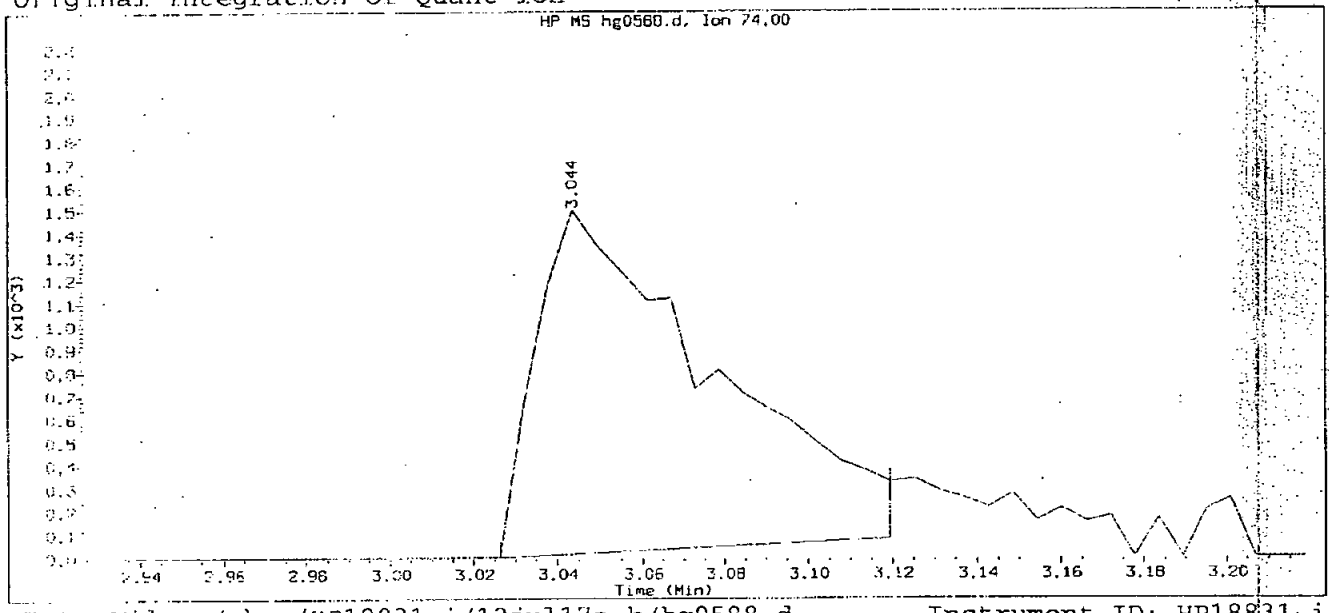
GC/MS audit/management approval: JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:49
Date, time and analyst ID of latest file update: 17-Jul-2012 21:49 Automation

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	: 2		
Compound Name	: N-Nitrosodimethylamine		
Scan Number	: 147		
Retention Time (minutes)	: 3.044		
Quant Ion	: 74.00		
Area	: 4354		
On-column Amount (ng/ul)	: 0.6322		
Integration start scan	: 143	Integration stop scan:	159
Y at integration start	: 0	Y at integration end:	79

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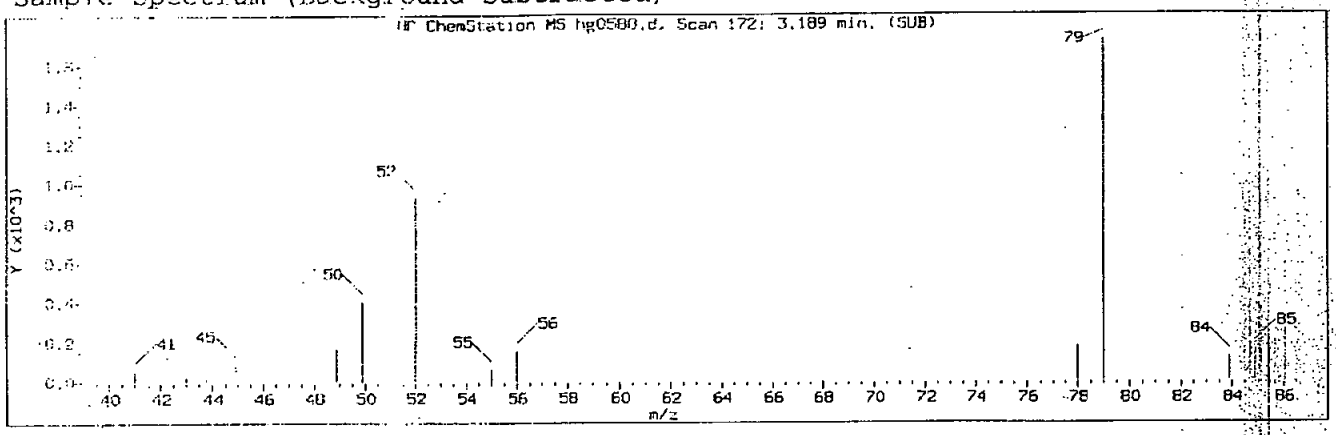
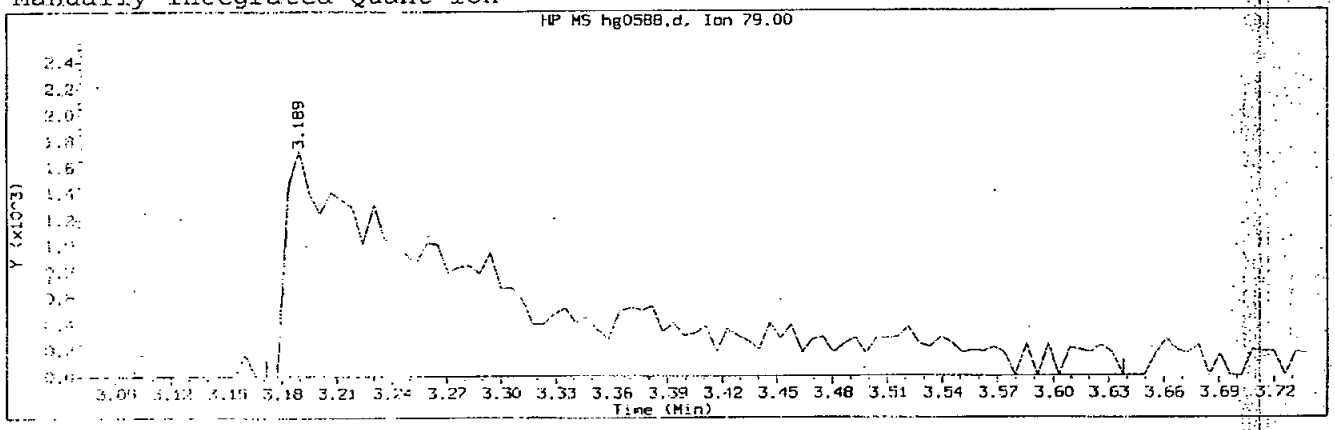
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	: 3		
Compound Name	: Pyridine		
Scan Number	: 172		
Retention Time (minutes)	: 3.189		
Quant Ion	: 79.00		
Area (flag)	: 13999M		
On-Column Amount (ng/ul)	: 1.2189		
Integration start scan	: 168	Integration stop scan:	248
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

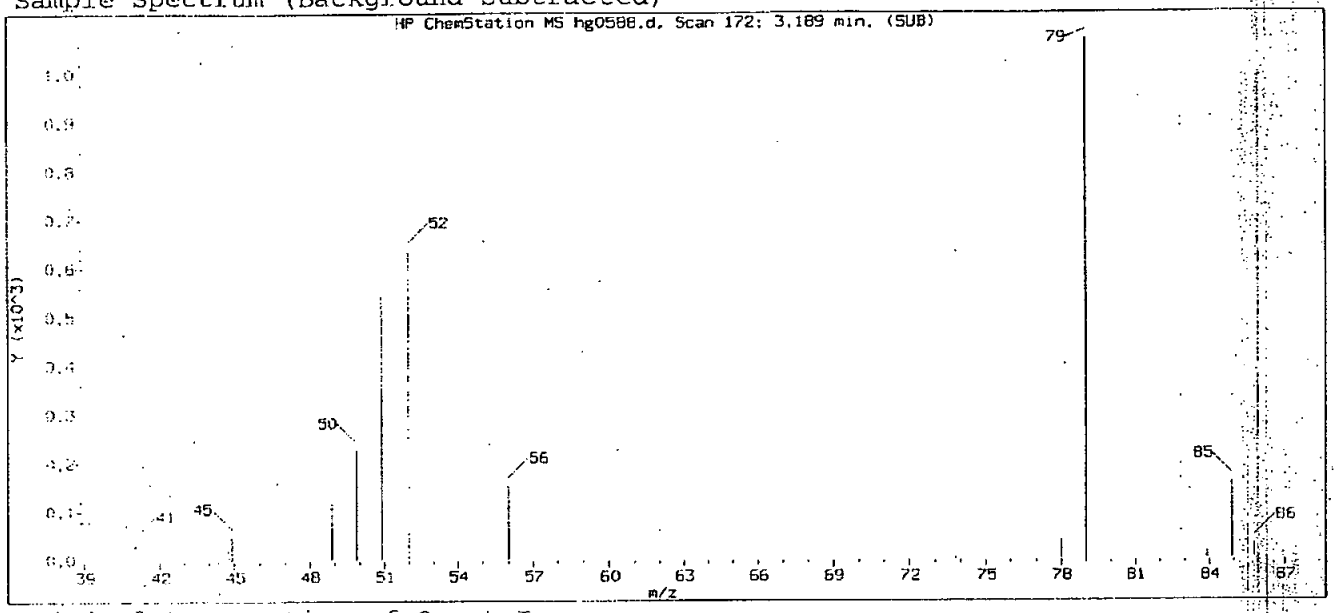
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

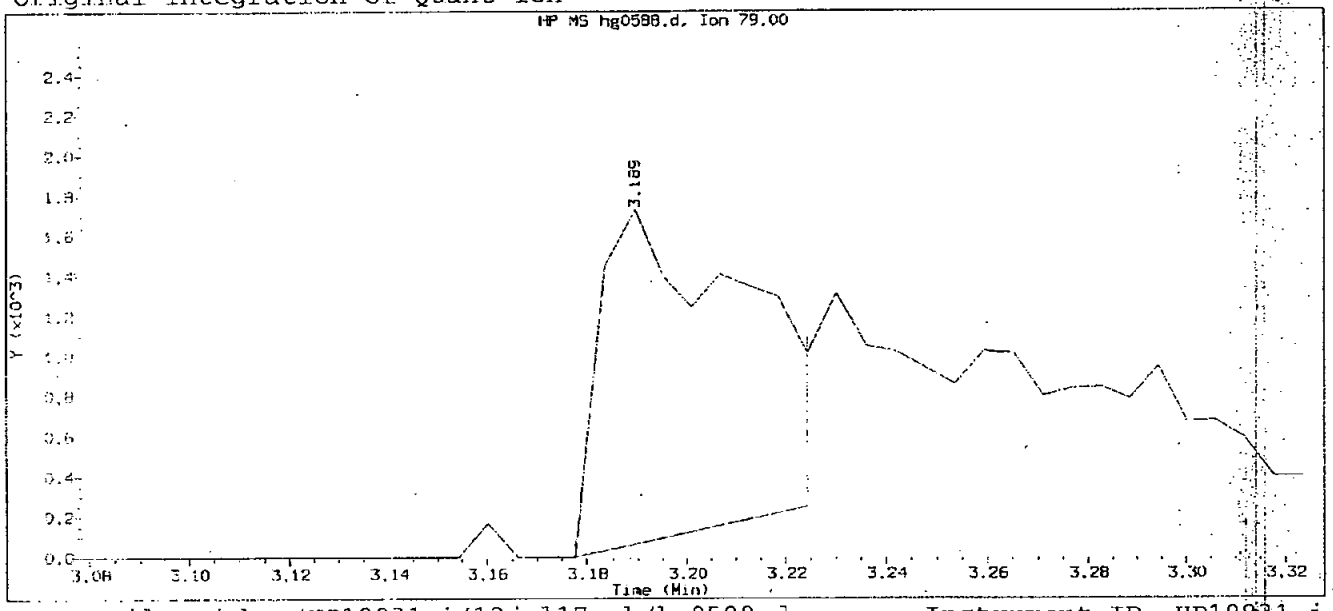
Matthew E. Barton
Senior Specialist

ASX73 0768

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

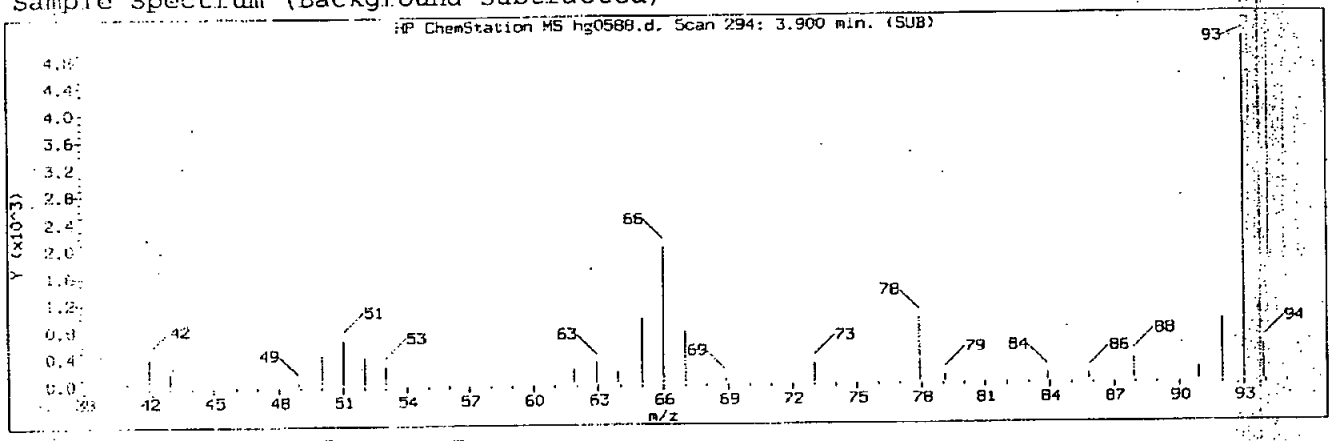
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:49
Date, time and analyst ID of latest file update: 17-Jul-2012 21:49 Automation

Sample Name: SSTD001 Lab Sample ID: STD1982

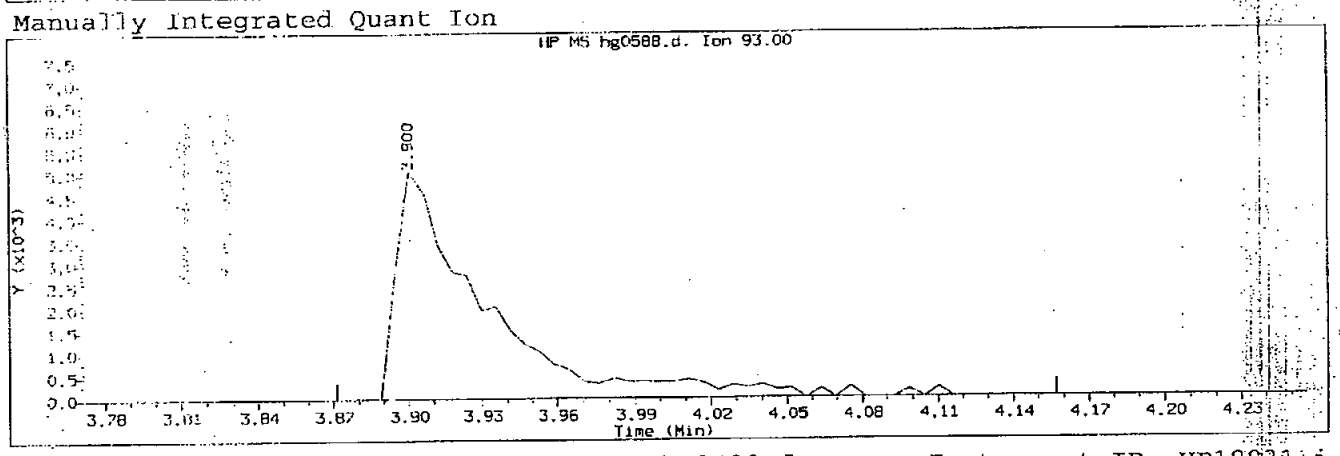
Compound Number	: 3		
Compound Name	: Pyridine		
Scan Number	: 172		
Retention Time (minutes)	: 3.189		
Quant Ion	: 79.00		
Area	: 3279		
On-column Amount (ng/ul)	: 0.2855		
Integration start scan	: 169	Integration stop scan:	177
Y at integration start	: 0	Y at integration end:	247

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newallj
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	: 5		
Compound Name	: 2-Picoline		
Scan Number	: 294		
Retention Time (minutes)	: 3.900		
Quant Ion	: 93.00		
Area (flag)	: 12605M		
On-Column Amount (ng/ul)	: 1.0636		
Integration start scan	: 288	Integration stop scan:	337
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: compound not in processing sublist

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: JUL 18 2012

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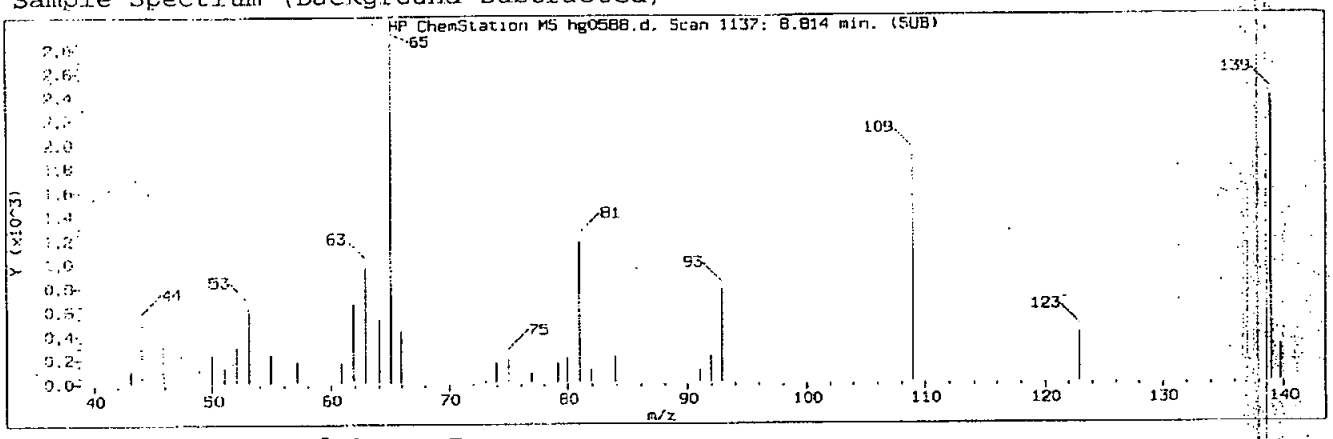
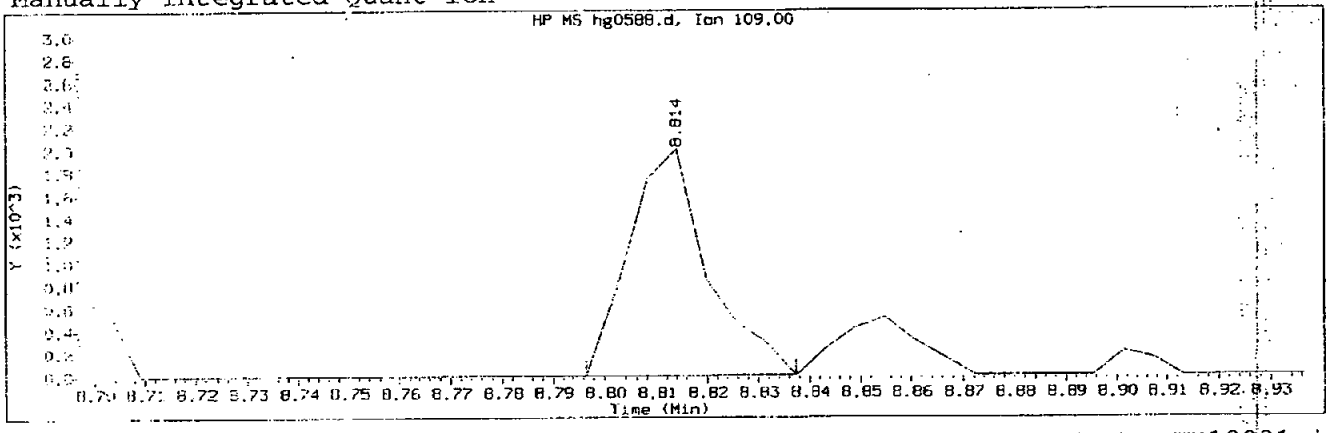
Senior Specialist

ASX73 0779

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	: 103		
Compound Name	: 4-Nitrophenol		
Scan Number	: 1137		
Retention Time (minutes)	: 8.814		
Quant Ion	: 109.00		
Area (flag)	: 2142M		
On-Column Amount (ng/ul)	: 0.6566		
Integration start scan	: 1133	Integration stop scan:	1140
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

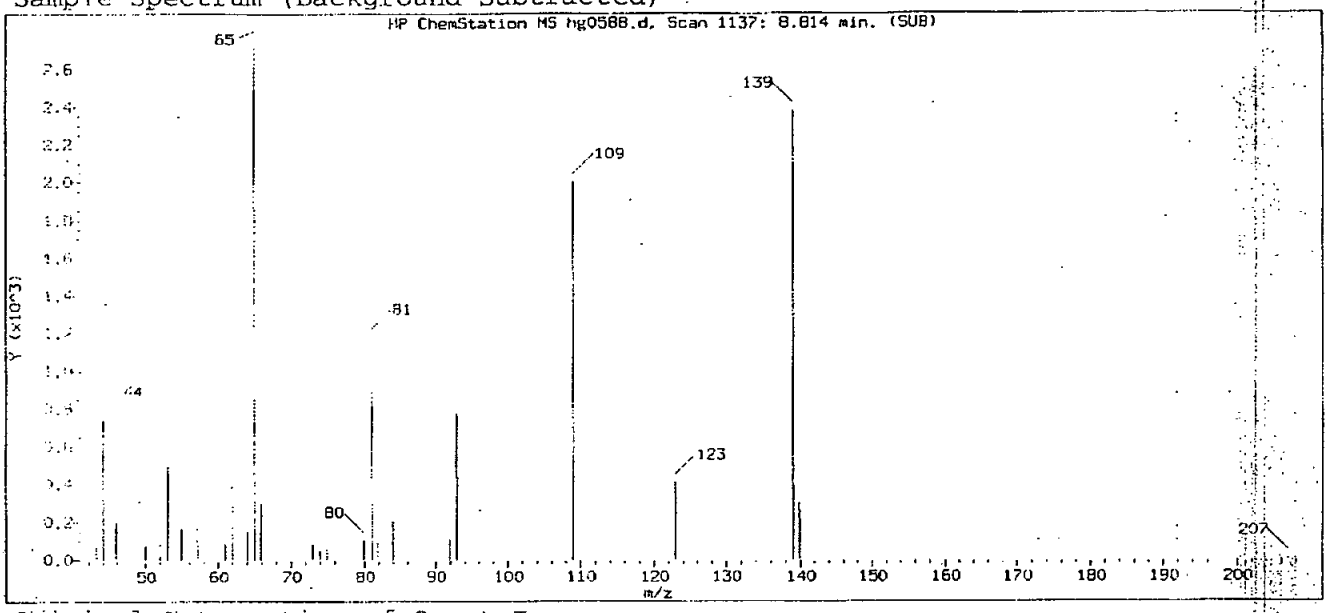
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: _____

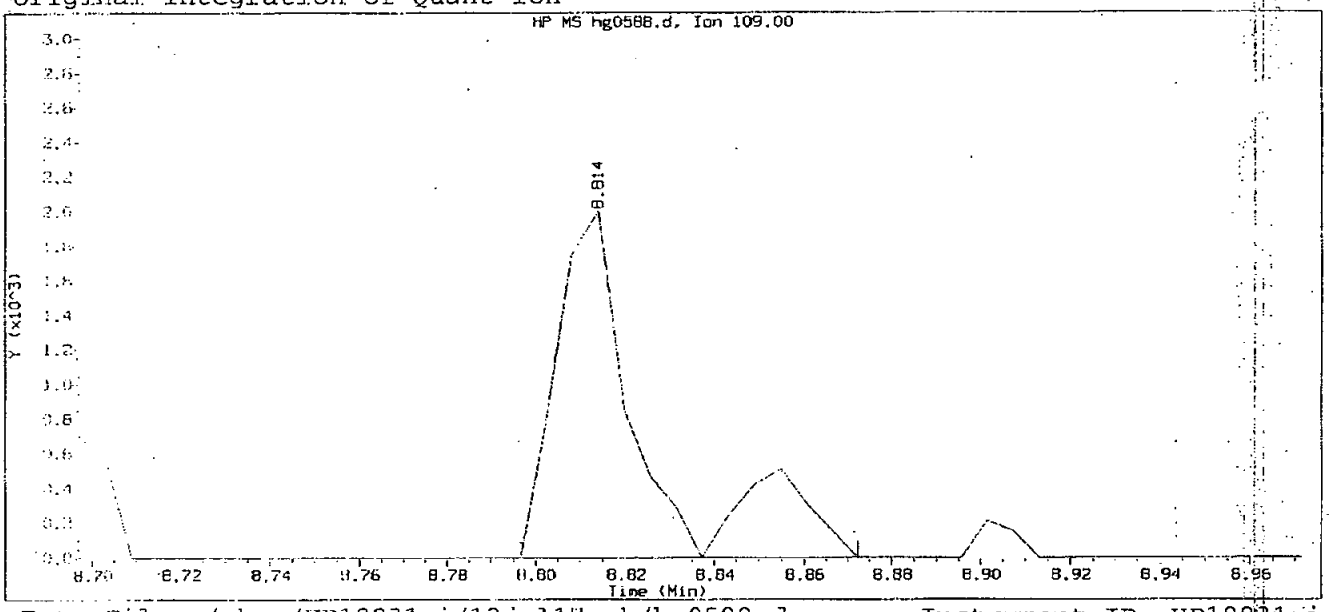
JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

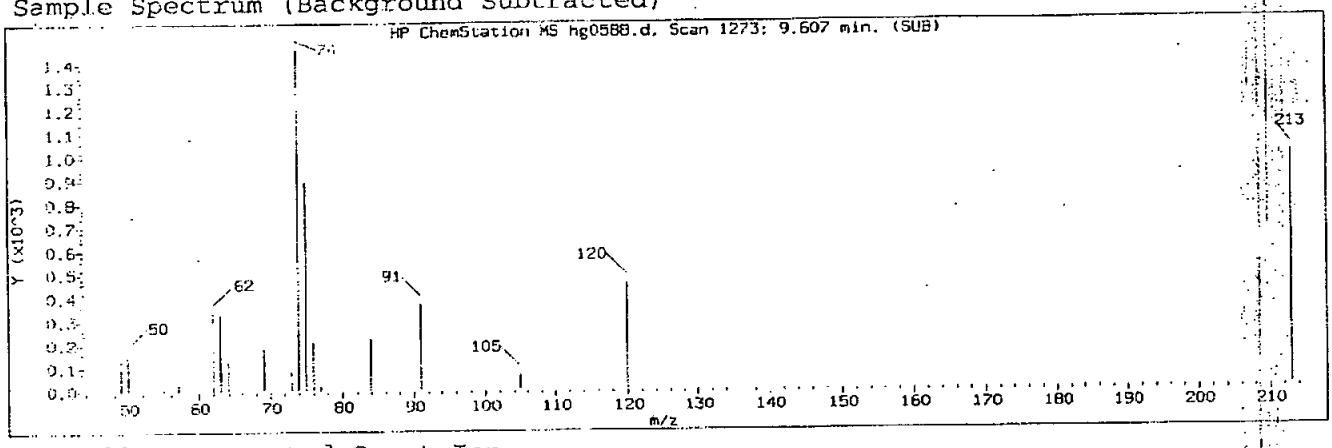
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:49
Date, time and analyst ID of latest file update: 17-Jul-2012 21:49 Automation

Sample Name: SSTD001 Lab Sample ID: STD1982

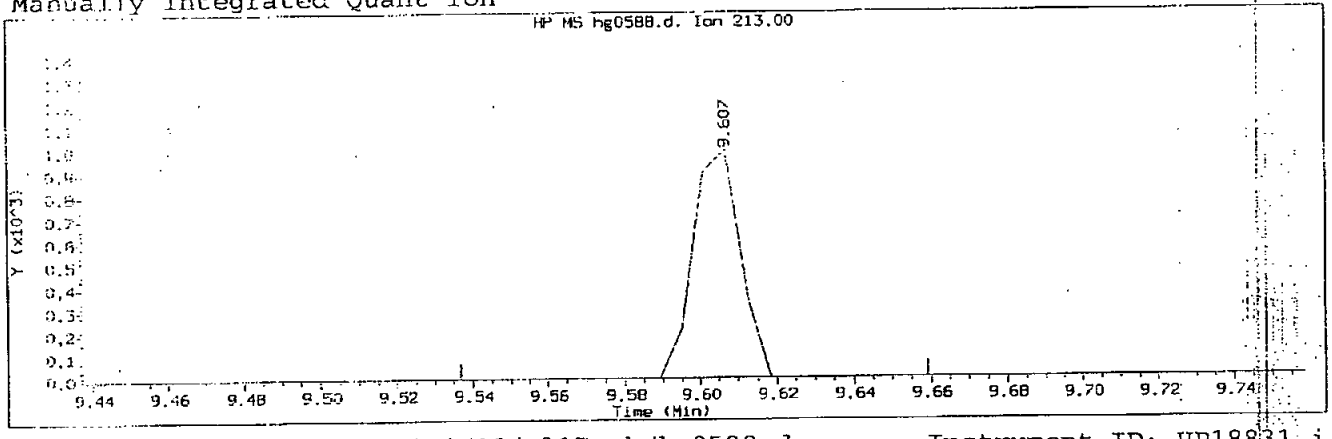
Compound Number	: 103		
Compound Name	: 4-Nitrophenol		
Scan Number	: 1137		
Retention Time (minutes)	: 8.814		
Quant Ion	: 109.00		
Area	: 2710		
On-column Amount (ng/ul)	: 0.8308		
Integration start scan	: 1133	Integration stop scan:	1146
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	:	121
Compound Name	:	1,3,5-Trinitrobenzene
Scan Number	:	1273
Retention Time (minutes)	:	9.607
Quant Ion	:	213.00
Area (flag)	:	852M
On-Column Amount (ng/ul)	:	3.9440
Integration start scan	:	1260 Integration stop scan: 1281
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22 Target 3.5 esignature user ID: jmg00346

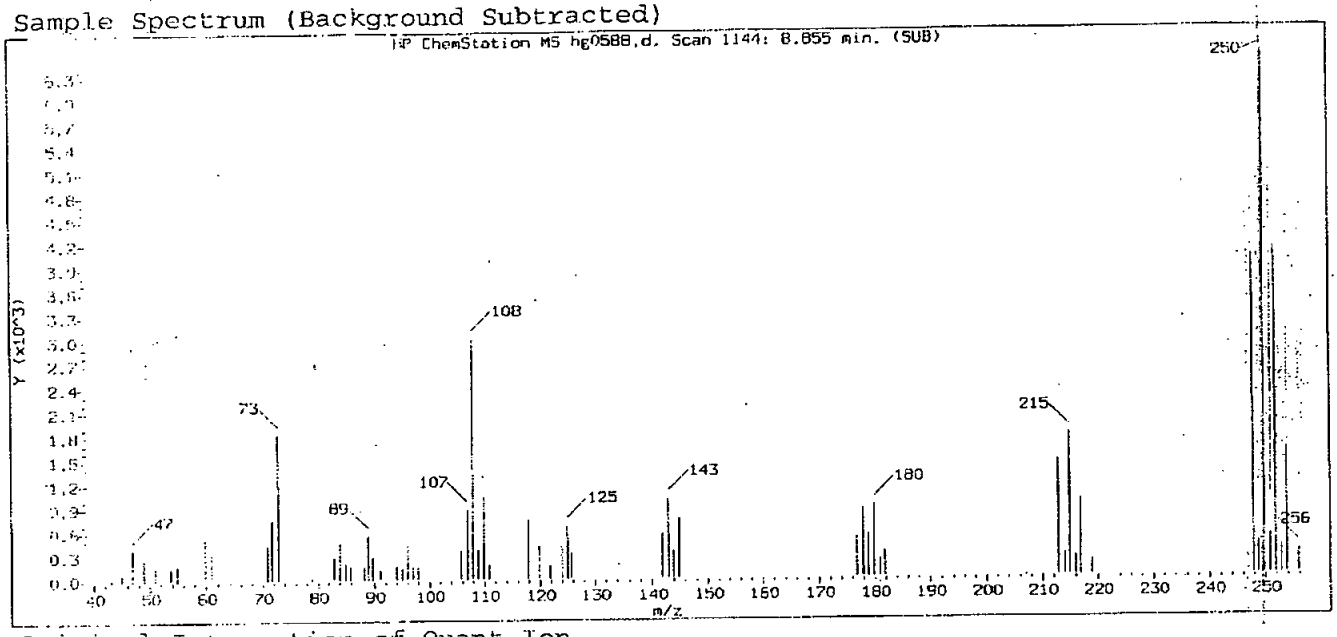
GC/MS audit/management approval: _____

JUL 18 2012

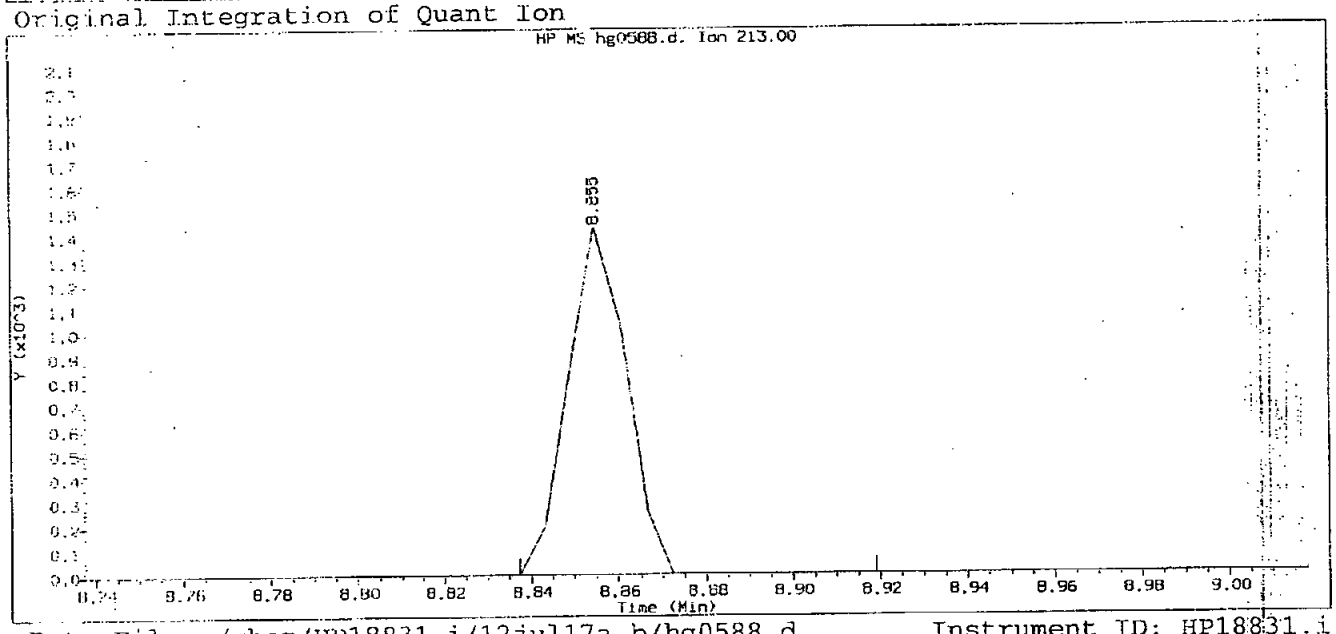
Matthew E. Barton
Senior Specialist

ASX73 0773

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

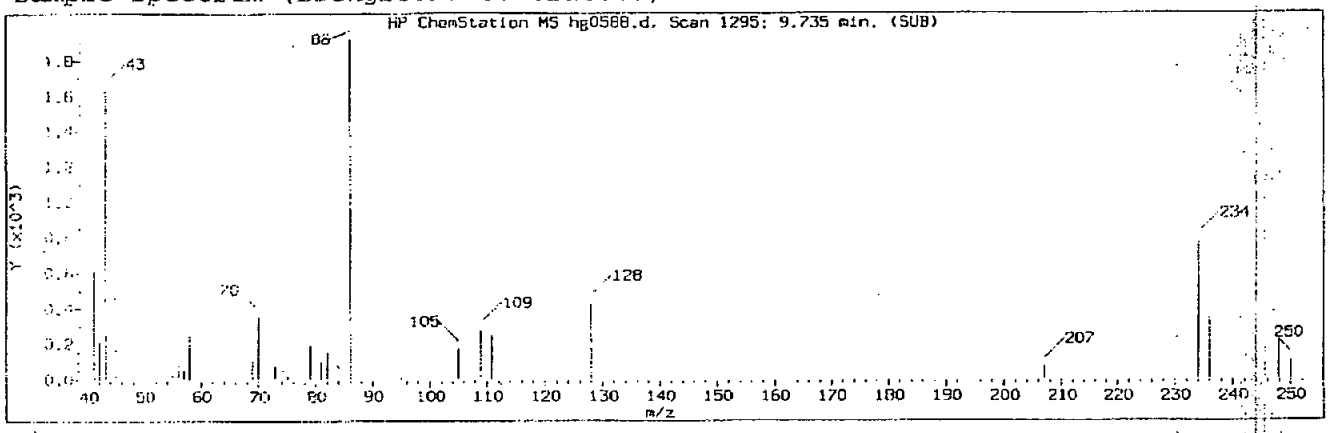
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:49
Date, time and analyst ID of latest file update: 17-Jul-2012 21:49 Automation

Sample Name: SSTD001 Lab Sample ID: STD1982

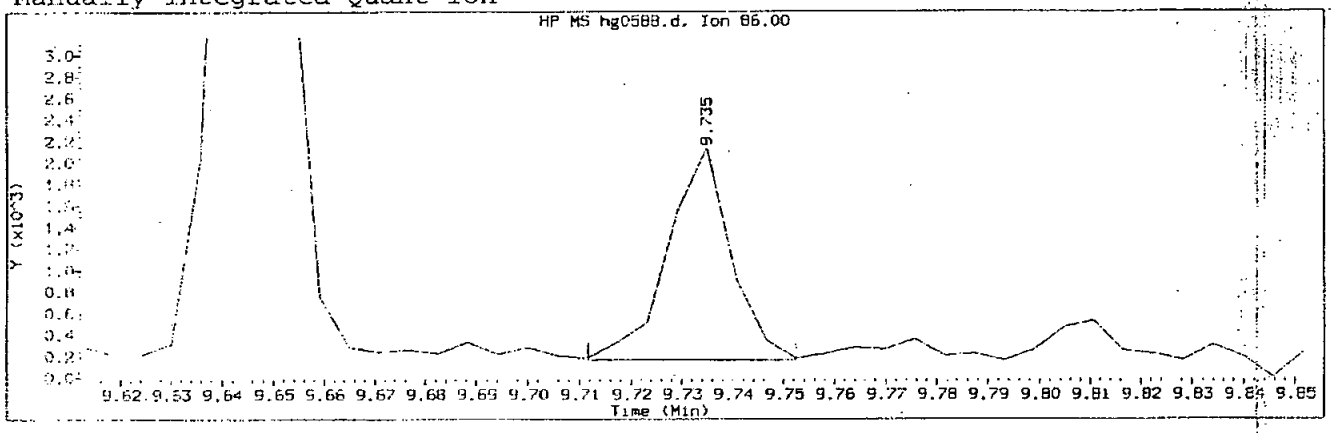
Compound Number	: 121		
Compound Name	: 1,3,5-Trinitrobenzene		
Scan Number	: 1144		
Retention Time (minutes)	: 8.855		
Quant Ion	: 213.00		
Area	: 1316		
On-column Amount (ng/ul)	: 0.6520		
Integration start scan	: 1140	Integration stop scan:	1154
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	: 126		
Compound Name	: Diallate (peak 2)		
Scan Number	: 1295		
Retention Time (minutes)	: 9.735		
Quant Ion	: 86.00		
Area (flag)	: 1690M		
On-Column Amount (ng/ul)	: 0.2044		
Integration start scan	: 1290	Integration stop scan:	1297
Y at integration start	: 163	Y at integration end:	163

Reason for manual integration: improper integration

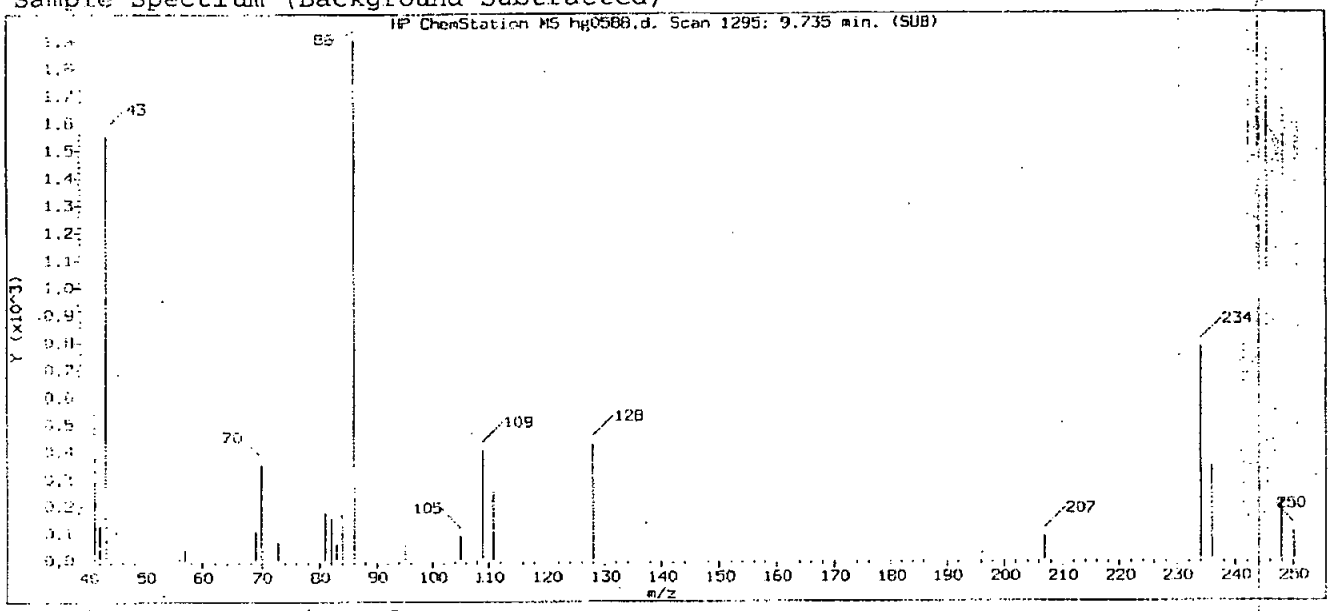
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: _____
JUL 18 2012

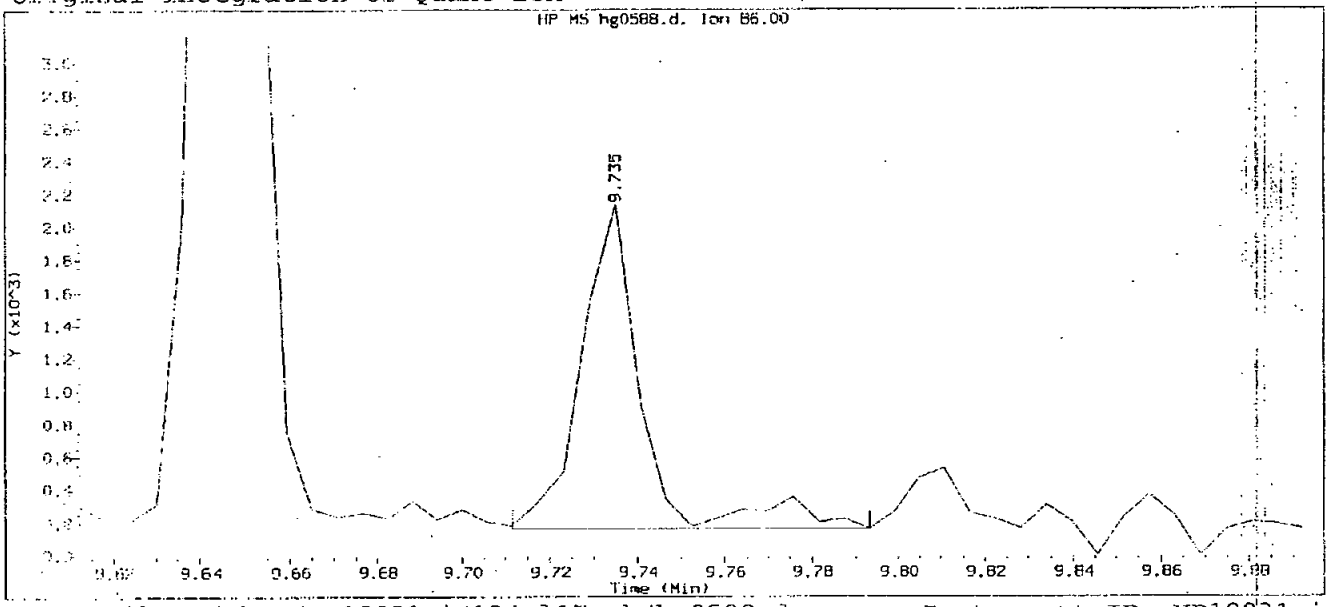
Matthew E. Barton
Senior Specialist

ASX73 0775

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

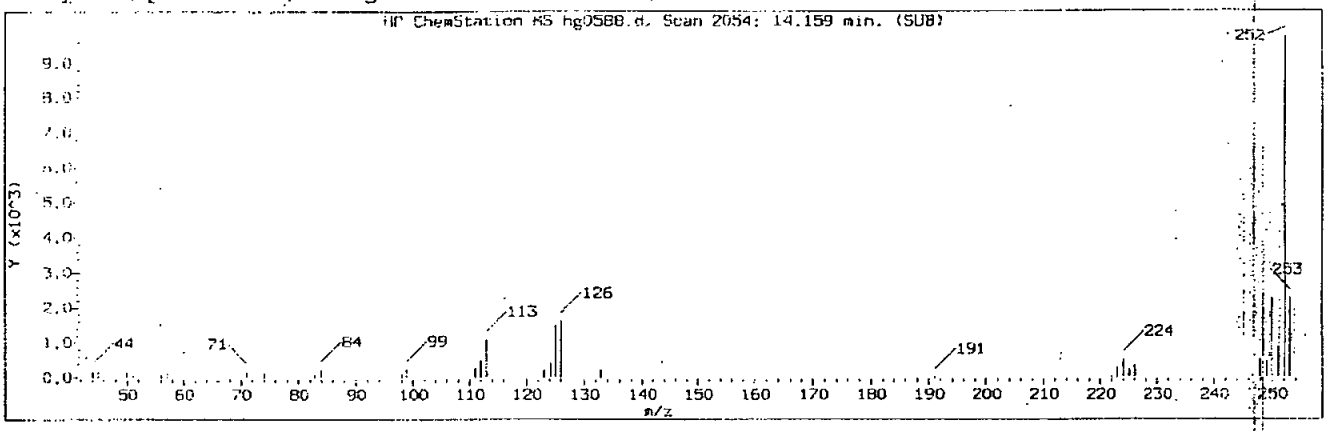
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:49
Date, time and analyst ID of latest file update: 17-Jul-2012 21:49 Automation

Sample Name: SSTD001 Lab Sample ID: STD1982

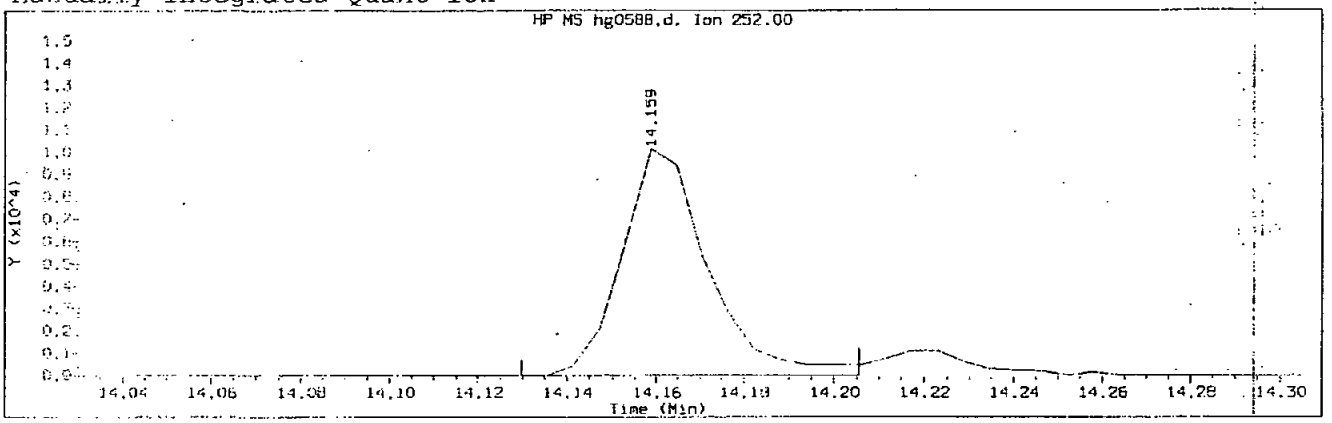
Compound Number	: 126	
Compound Name	: Diallate (peak 2)	
Scan Number	: 1295	
Retention Time (minutes)	: 9.735	
Quant Ion	: 86.00	
Area	: 1887	
On-column Amount (ng/ul)	: 0.2282	
Integration start scan	: 1290	Integration stop scan: 1304
Y at integration start	: 163	Y at integration end: 163

Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22.
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	:	174
Compound Name	:	Benzo(a)pyrene
Scan Number	:	2054
Retention Time (minutes)	:	14.159
Quant Ion	:	252.00
Area (flag)	:	13893M
On-Column Amount (ng/ul)	:	0.8707
Integration start scan	:	2048
Integration stop scan	:	2061
Y at integration start	:	0
Y at integration end	:	0

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

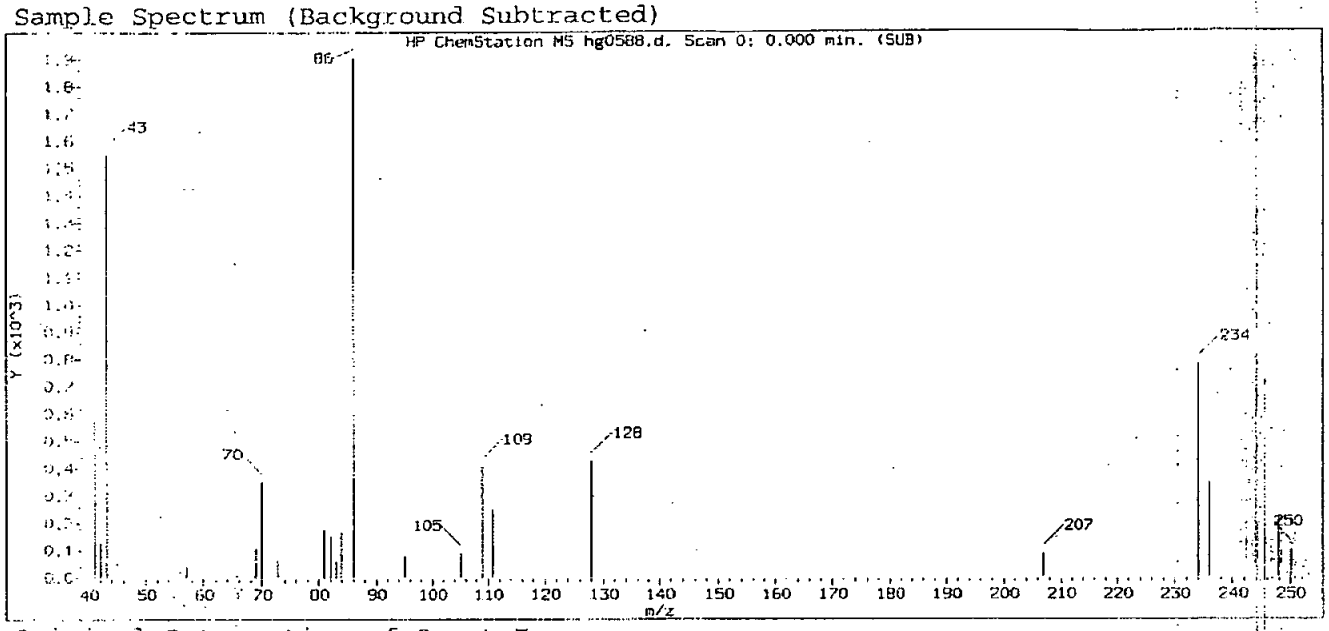
GC/MS audit/management approval: _____

JUL 18 2012

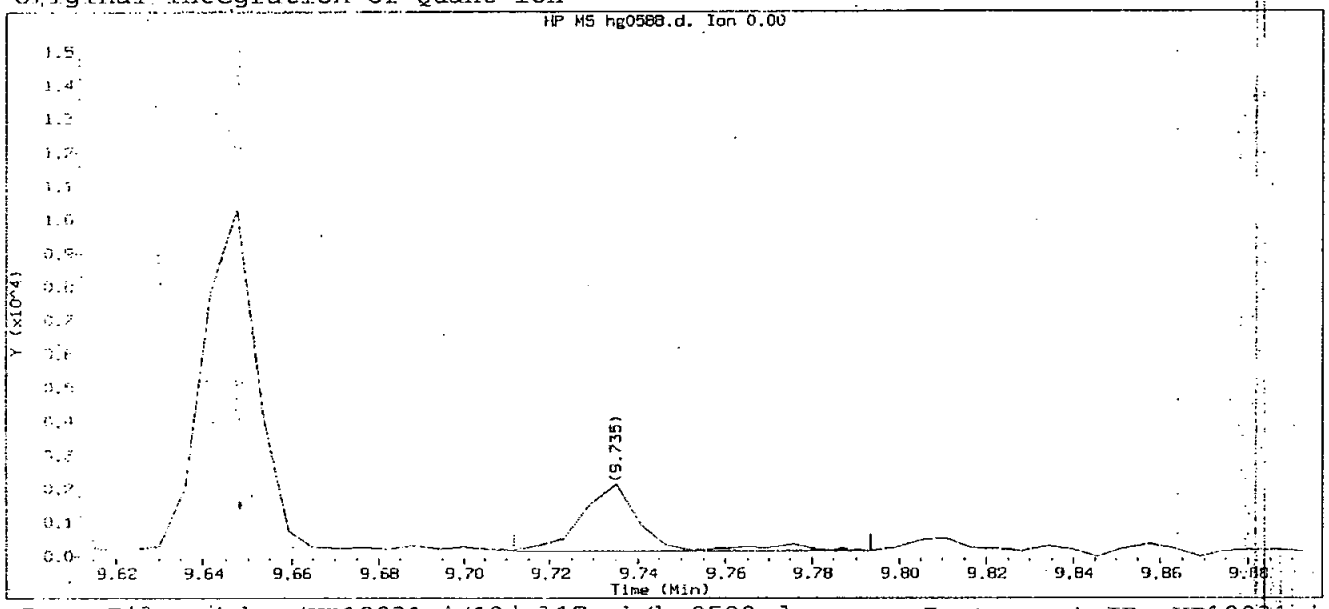
Matthew E. Barton
Senior Specialist

ASX73 0777

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:49
Date, time and analyst ID of latest file update: 17-Jul-2012 21:49 Automation

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number : 0
Compound Name : Diallate TRANS/CIS
Scan Number : 0
Retention Time (minutes) : 0.000
Quant Ion : 0.00
Area : 0
On-column Amount (ng/ul) : 0.0000
Integration start scan : 1087052861 Integration stop scan: 280
Y at integration start : 0 Y at integration end: 0

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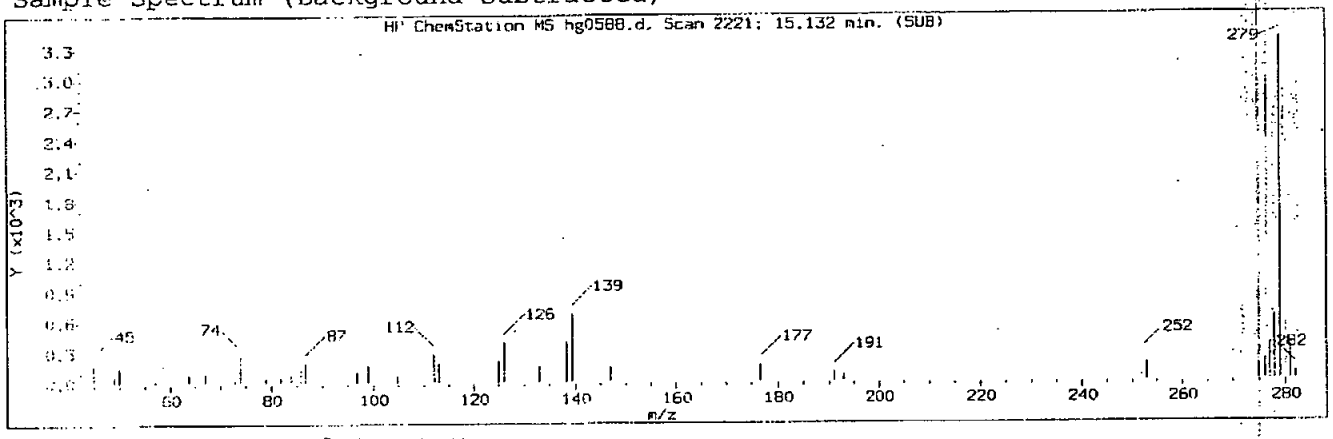
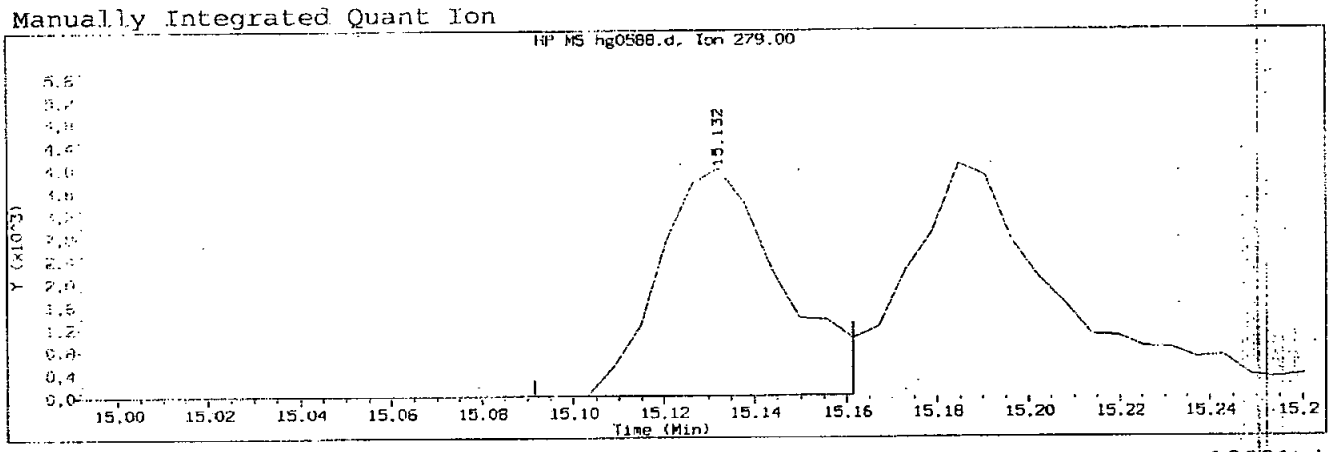
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	: 190		
Compound Name	: Dibenz(a,h)acridine		
Scan Number	: 2221		
Retention Time (minutes)	: 15.132		
Quant Ion	: 279.00		
Area (flag)	: 7503M		
On-Column Amount (ng/ul)	: 0.6659		
Integration start scan	: 2213	Integration stop scan:	2225
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

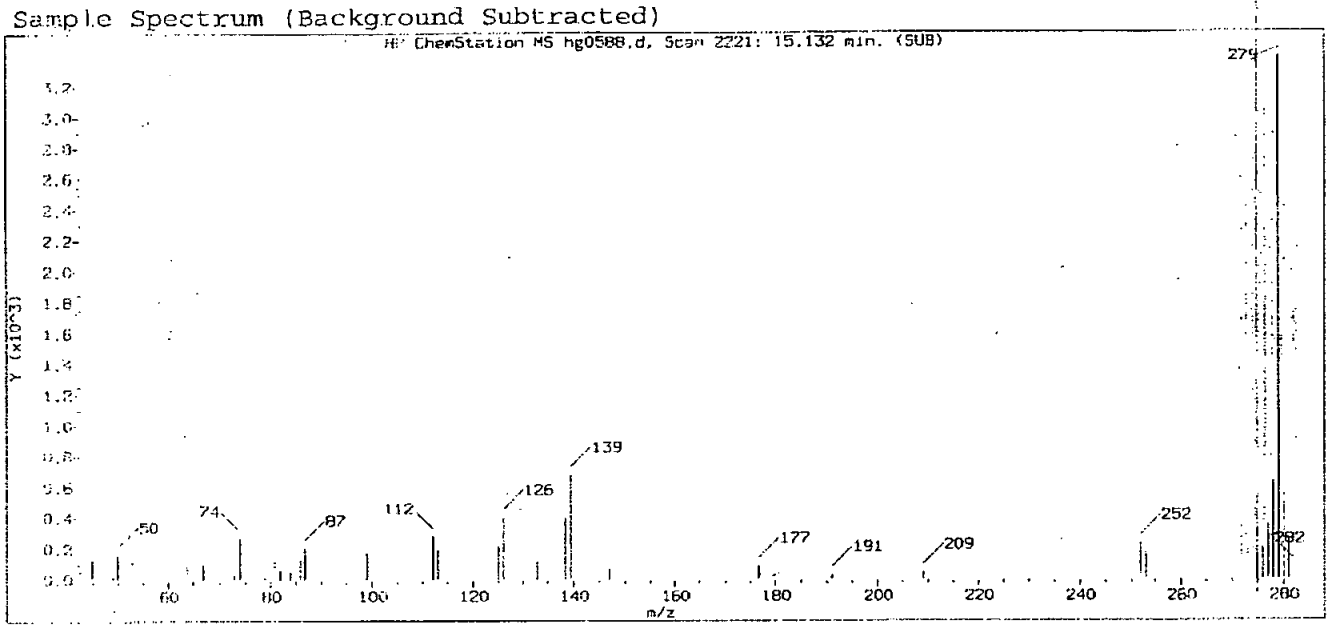
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22: Target 3.5 esignature user ID: jmg00346

GC/MS audit/management approval: _____

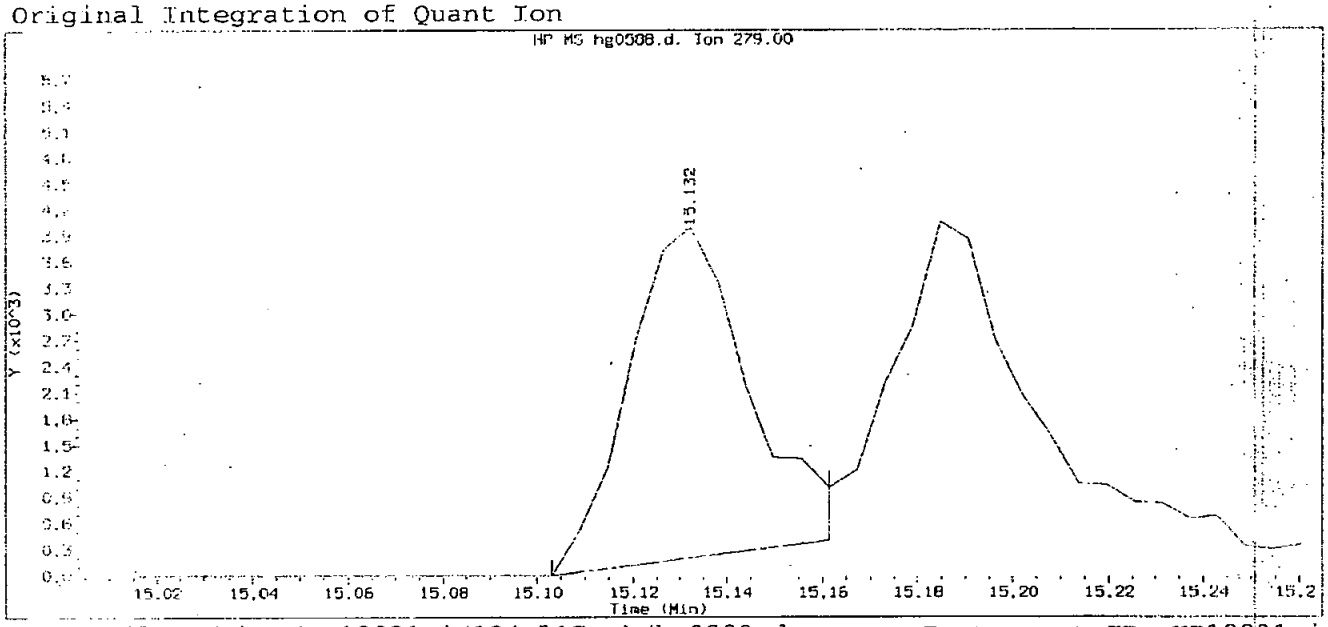
JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:49
Date, time and analyst ID of latest file update: 17-Jul-2012 21:49 Automation

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	:	190
Compound Name	:	Dibenz(a,h)acridine
Scan Number	:	2221
Retention Time (minutes)	:	15.132
Quant Ion	:	279.00
Area	:	6629
On-column Amount (ng/ul)	:	0.5884
Integration start scan	:	2215 Integration stop scan: 2225
Y at integration start	:	0 Y at integration end: 399

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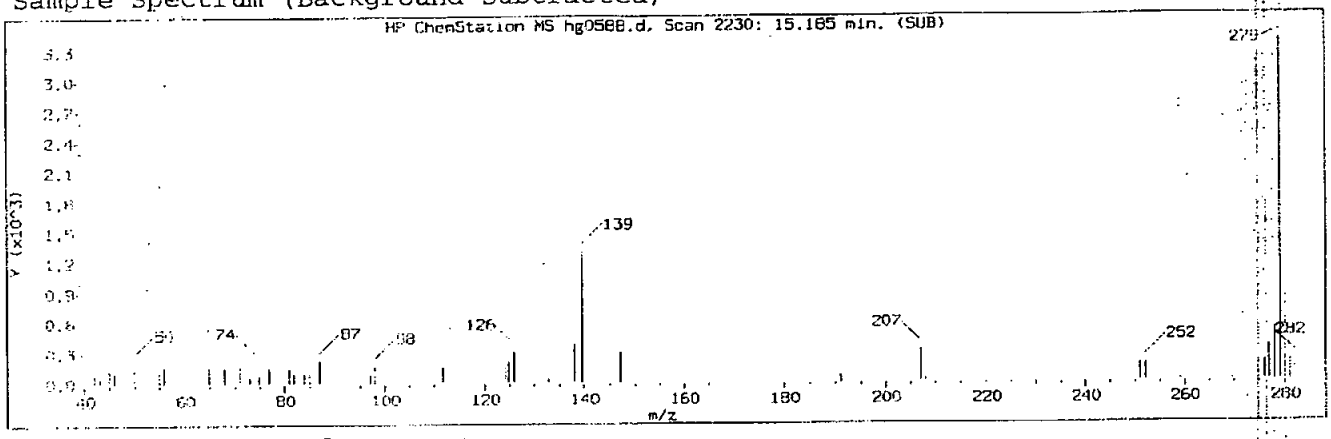
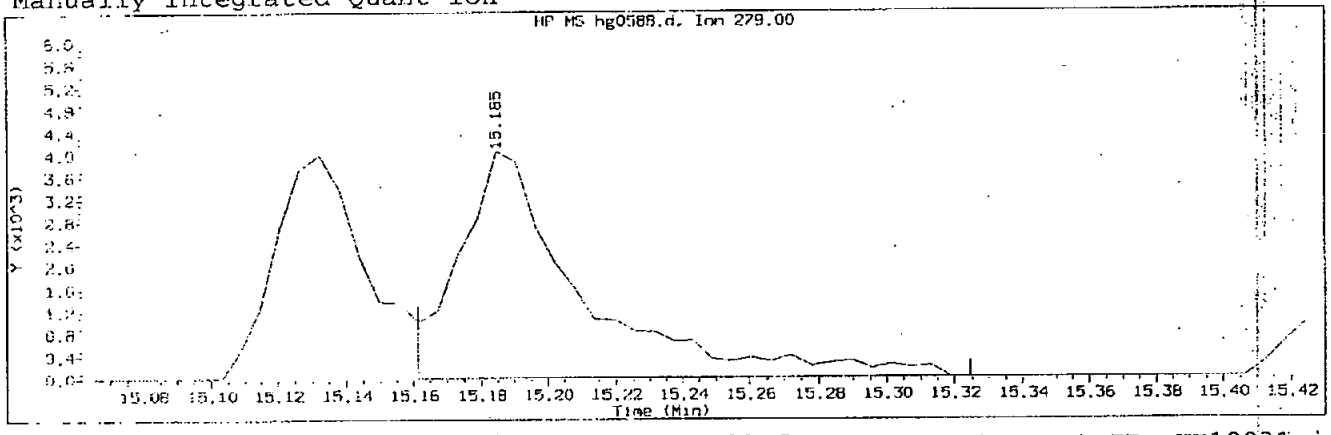
Target 3.5 esignature user ID: jmg00346

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 04:17
Date, time and analyst ID of latest file update: 18-Jul-2012 04:17 jmg00346

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	: 191		
Compound Name	: Dibenz(a,j)acridine		
Scan Number	: 2230		
Retention Time (minutes)	: 15.185		
Quant Ion	: 279.00		
Area (flag)	: 10435M		
On-Column Amount (ng/ul)	: 0.8553		
Integration start scan	: 2225	Integration stop scan:	2253
Y at integration start	: 0	Y at integration end:	0

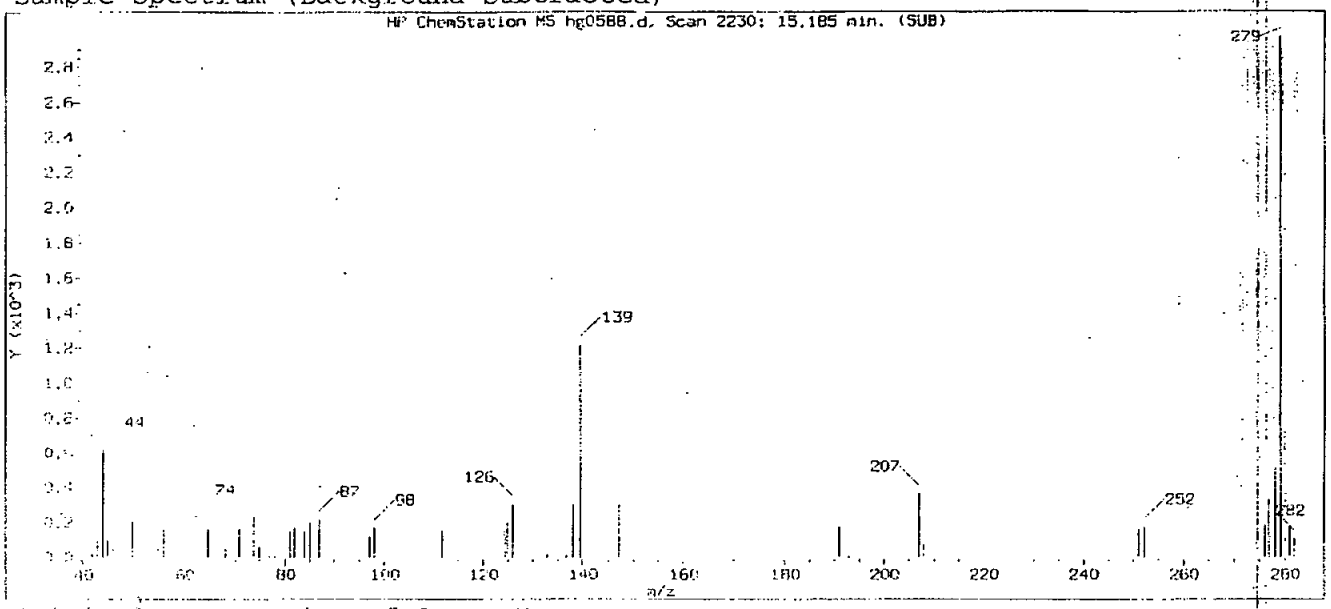
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/18/2012 at 04:22. Target 3.5 esignature user ID: jmg00346

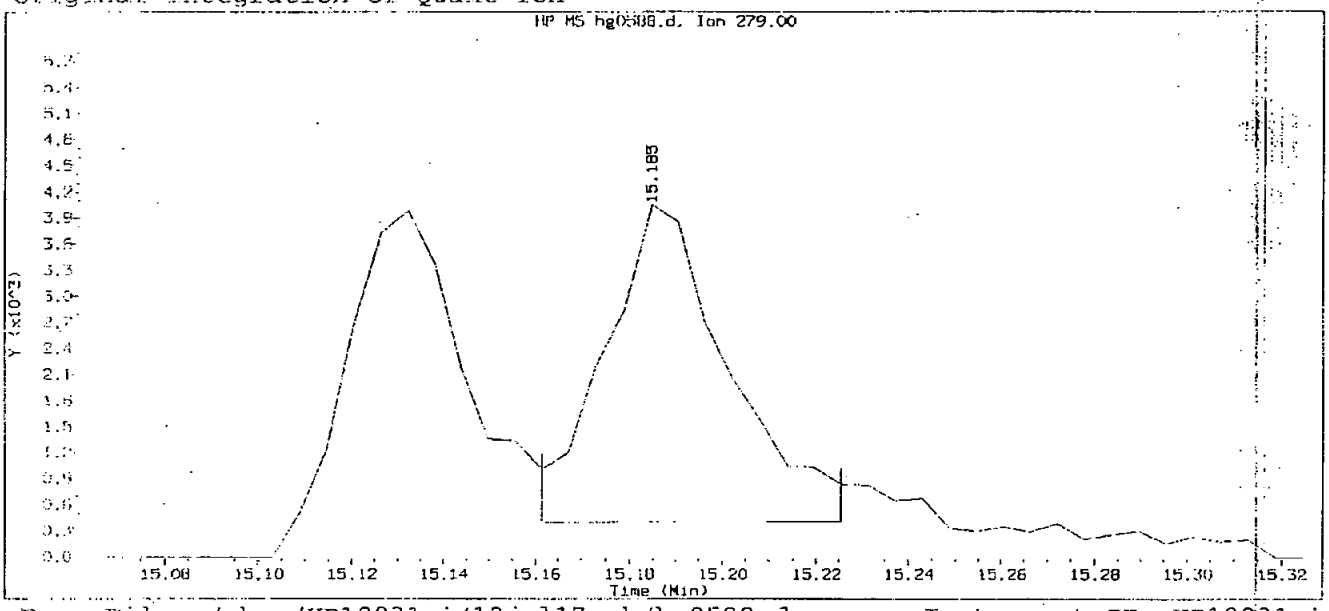
GC/MS audit/management approval: JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0588.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:32 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: all1
Calibration date and time: 17-JUL-2012 21:49
Date, time and analyst ID of latest file update: 17-Jul-2012 21:49 Automation

Sample Name: SSTD001 Lab Sample ID: STD1982

Compound Number	:	191
Compound Name	:	Dibenz(a,j)acridine
Scan Number	:	2230
Retention Time (minutes)	:	15.185
Quant Ion	:	279.00
Area	:	6671
On-column Amount (ng/ul)	:	0.5468
Integration start scan	:	2225 Integration stop scan: 2236
Y at integration start	:	399 Y at integration end: 414

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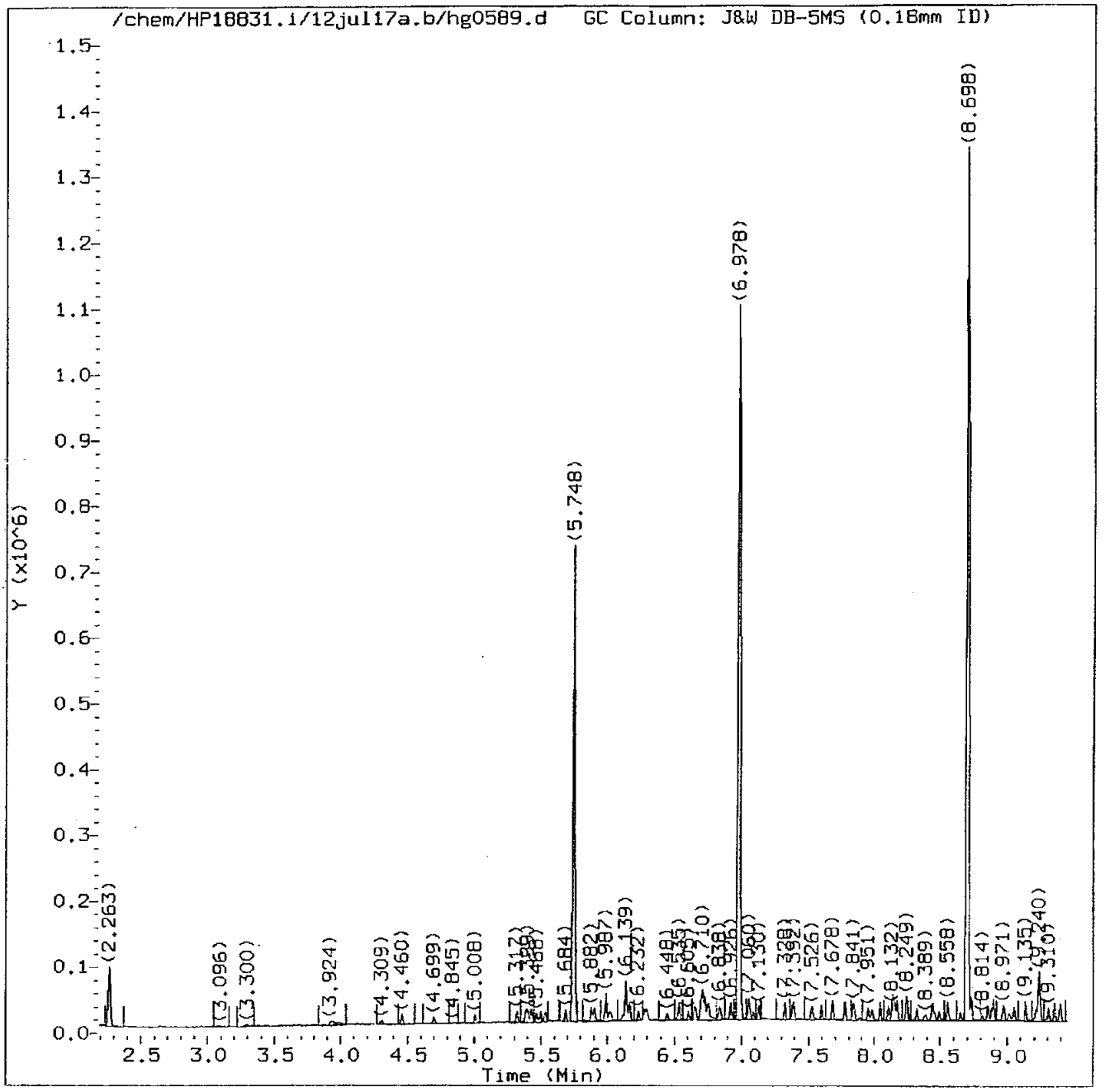
Target 3.5 esignature user ID: jmg00346



Total Ion Chromatogram (TIC)

Target Revision 3.5

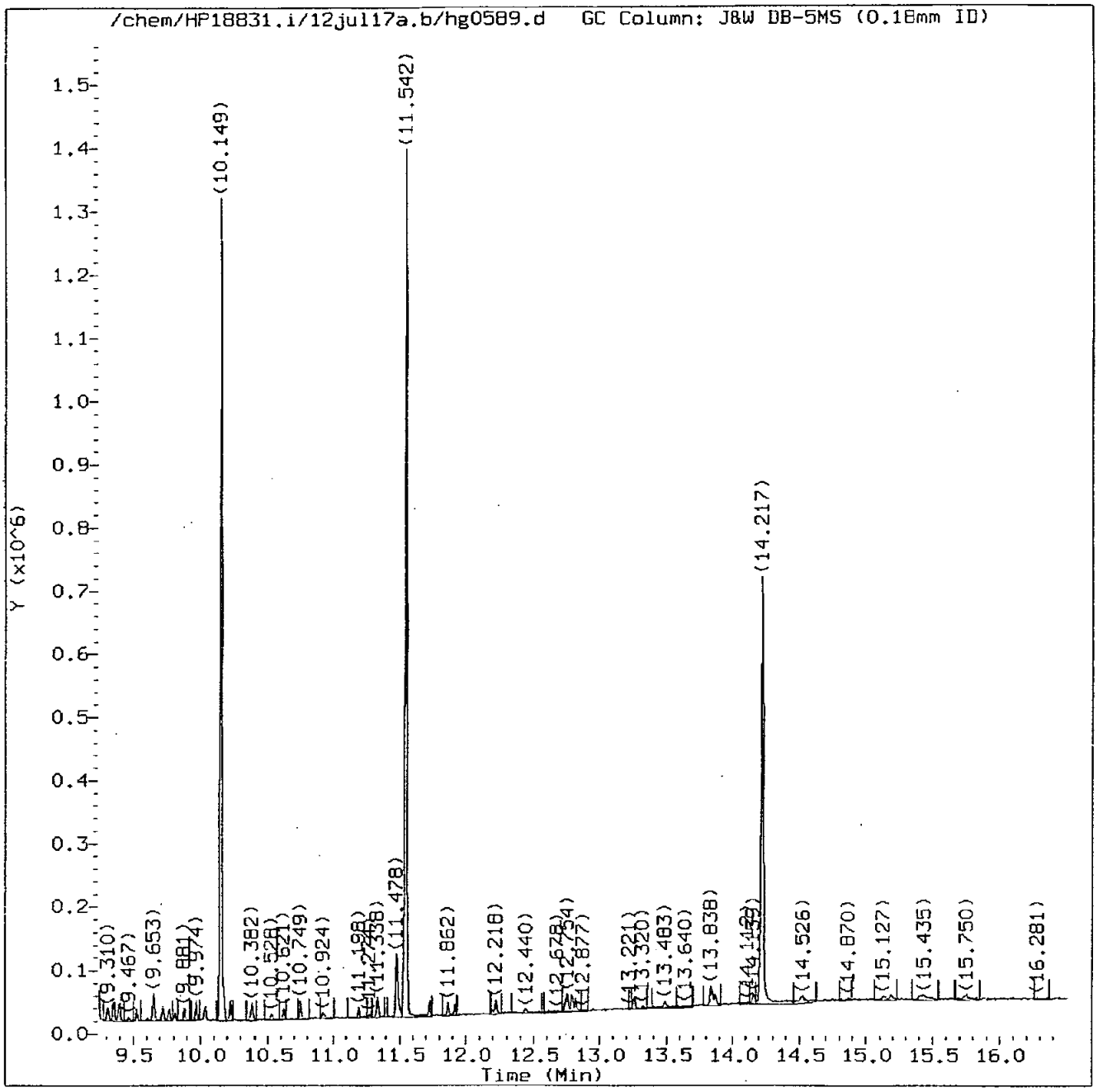
Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Digitally signed by Brian K. Graham
on 07/18/2012 at 04:03
Target 3.5 esignature user ID: bkg00522

ASX73 0783



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlalll
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Digitally signed by Brian K. Graham
on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

ASX73 0784

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0589.d
Injection date and time: 17-JUL-2012 21:55

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:05

Sublist used: 0.5mdlall1

Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5

Lab Sample ID: MDLSTD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.636	88	2056M	0.487
2) N-Nitrosodimethylamine	(1)	3.085	74	1340	0.193
3) Pyridine	(1)	3.277	79	1237	0.107
5) 2-Picoline	(1)	3.936	93	4256	0.356
6) N-Nitrosomethylethylamine	(1)	3.988	88	2811	0.512
7) Methyl methanesulfonate	(1)	4.309	80	2598	0.415
9)$2-Fluorophenol	(1)	4.460	112	4098	0.448
10) N-Nitrosodiethylamine	(1)	4.699	102	2200	0.420
11) Ethyl methanesulfonate	(1)	5.008	109	2254	0.451
12) Benzaldehyde	(1)	5.323	77	4007	0.455
14)$Phenol-d5	(1)	5.387	99	5880	0.454
15)$Phenol-d6	(1)	5.387	99	5880	0.454
16) Phenol	(1)	5.399	94	6933	0.453
13) Aniline	(1)	5.428	93	7732	0.439
18) bis(2-Chloroethyl)ether	(1)	5.498	93	5452	0.478
19) 2-Chlorophenol	(1)	5.533	128	3695	0.436
20) 1,3-Dichlorobenzene	(1)	5.684	146	4165	0.487
21)*1,4-Dichlorobenzene-d4	(1)	5.748	152	108505	20.000
22) 1,4-Dichlorobenzene	(1)	5.760	146	4438	0.508
24) Benzyl alcohol	(1)	5.882	108	3025	0.411
25) 1,2-Dichlorobenzene	(1)	5.906	146	3855	0.474
26) 2-Methylphenol	(1)	5.987	108	4280	0.438
206) Indene	(1)	5.993	115	6672	0.433
27) 2,2'-oxybis(1-Chloropropane)	(1)	6.022	45	7600	0.570
28) bis(2-Chloroisopropyl)ether	(1)	6.022	45	7600	0.570
29) N-Nitrosopyrrolidine	(1)	6.115	100	2064	0.388
30) Acetophenone	(1)	6.133	105	7161	0.481
33) 4-Methylphenol	(1)	6.139	108	5140	0.485
31) N-Nitroso-di-n-propylamine	(1)	6.139	70	4281	0.476
32) N-Nitrosomorpholine	(1)	6.156	56	3226	0.508
34) o-Toluidine	(1)	6.168	106	7403	0.471
37) Hexachloroethane	(1)	6.232	117	1666	0.431
38)$Nitrobenzene-d5	(2)	6.279	82	5894	0.490
39) Nitrobenzene	(2)	6.296	77	5567	0.445
40) N-Nitrosopiperidine	(2)	6.448	114	2100	0.442
41) Isophorone	(2)	6.535	82	10665	0.454
42) 2-Nitrophenol	(2)	6.611	139	1706	0.386
44) 2,4-Dimethylphenol	(2)	6.658	107	4677	0.450
47) Benzoic acid	(2)	6.710	105	25260	3.153
45) O,O,O-triethylphosphorothioate	(2)	6.733	198	2110	0.515

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Brian K. Graham
on 07/18/2012 at 04:03
Target 3.5 esignature user ID: bkg00522

ASX73 0785

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
46) bis(2-Chloroethoxy)methane	(2)	6.757	93	6397	0.452
49) 2,4-Dichlorophenol	(2)	6.838	162	3064	0.460
50) 1,2,4-Trichlorobenzene	(2)	6.926	180	3779	0.513
52)*Naphthalene-d8	(2)	6.978	136	436564	20.000
56) 4-Chloroaniline	(2)	7.054	127	4994	0.494
57) 2,6-Dichlorophenol	(2)	7.060	162	3065	0.478
58) Hexachloropropene	(2)	7.089	213	1445	0.334
60) Hexachlorobutadiene	(2)	7.130	225	1710	0.449
194) Quinoline	(2)	7.328	129	8116	0.500
63) Caprolactam	(2)	7.380	113	1327	0.377
64) N-Nitrosodi-n-butylamine	(2)	7.392	84	4733M	0.000
68) 4-Chloro-3-methylphenol	(2)	7.526	107	4086	0.447
69) Safrole	(2)	7.602	162	2957	0.465
72) Hexachlorocyclopentadiene	(3)	7.835	237	840	0.257
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.841	216	3631	0.514
74) cis-Isosafrole	(3)	7.887	162	579	0.052
75) 2,4,6-Trichlorophenol	(3)	7.951	196	2173	0.441
77) 2,4,5-Trichlorophenol	(3)	7.981	196	2281	0.419
78)$2-Fluorobiphenyl	(3)	8.045	172	8867	0.502
79) trans-Isosafrole	(3)	8.109	162	3146	0.409
80) Isosafrole	(3)	8.109	162	3146	0.460
83) 1,1'-Biphenyl	(3)	8.138	154	10979	0.522
84) 2-Chloronaphthalene	(3)	8.150	162	7209	0.472
85) 1-Chloronaphthalene	(3)	8.173	162	7388	0.487
88) Diphenyl ether	(3)	8.243	170	5580	0.499
89) 2-Nitroaniline	(3)	8.249	138	2108	0.400
90) 1,4-Naphthoquinone	(3)	8.325	158	2382	0.369
91) 1,4-Dinitrobenzene	(3)	8.389	168	785M	0.273
92) Dimethylphthalate	(3)	8.441	163	8601	0.481
93) 1,3-Dinitrobenzene	(3)	8.459	168	998M	0.295
94) 2,6-Dinitrotoluene	(3)	8.494	165	1552	0.384
97) 3-Nitroaniline	(3)	8.651	138	1613	0.349
98)*Acenaphthene-d10	(3)	8.698	164	264823	20.000
103) 4-Nitrophenol	(3)	8.808	109	945	0.296
101) Pentachlorobenzene	(3)	8.855	250	2854	0.502
105) 2,4-Dinitrotoluene	(3)	8.884	165	1581	0.304
104) Dibenzofuran	(3)	8.896	168	11847	0.526
106) 1-Naphthylamine	(3)	8.971	143	7170	0.443
107) 2,3,4,6-Tetrachlorophenol	(3)	9.018	232	1456	0.375
108) 2-Naphthylamine	(3)	9.053	143	7885	0.494

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

ASX73 0786

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
109) Diethylphthalate	(3)	9.135	149	8710	0.471
110) Thionazin	(3)	9.216	107	1569	0.413
112) 4-Chlorophenyl-phenylether	(3)	9.240	204	4774	0.550
113) 5-Nitro-o-toluidine	(3)	9.240	152	2021	0.392
114) 4-Nitroaniline	(3)	9.240	138	1747	0.375
115) 4,6-Dinitro-2-methylphenol	(4)	9.286	198	157M	0.047
117) N-Nitrosodiphenylamine	(4)	9.356	169	7454	0.453
202) NDPA as diphenylamine	(4)	9.356	169	7454	0.449
118) 1,2-Diphenylhydrazine	(4)	9.397	77	12269	0.428
119)$2,4,6-Tribromophenol	(3)	9.467	330	634	0.375
120) Tetraethyldithiopyrophosphate	(4)	9.525	97	1506	0.375
121) 1,3,5-Trinitrobenzene	(4)	9.601	213	383M	3.753
122) Diallate (peak 1)	(4)	9.648	86	3962	0.299
124) Phenacetin	(4)	9.653	108	4072	0.352
123) Phorate	(4)	9.653	75	5577M	0.000
125) 4-Bromophenyl-phenylether	(4)	9.718	248	2187	0.467
126) Diallate (peak 2)	(4)	9.735	86	867M	0.107
128) Dimethoate	(4)	9.811	87	3156	0.336
130) Atrazine	(4)	9.887	200	2255	0.516
131) Pentachlorophenol	(4)	9.968	266	702	0.238
132) Pentachloronitrobenzene	(4)	9.974	237	665M	0.316
133) 4-Aminobiphenyl	(4)	9.974	169	7576	0.490
134) Pronamide	(4)	10.038	173	2795	0.347
100) 2,4-Dinitrophenol	(3)	10.149	184	63852	25.908
135)*Phenanthrene-d10	(4)	10.149	188	465065	20.000
136) Dinoseb	(4)	10.155	211	282M	3.852
140) Carbazole	(4)	10.382	167	11646	0.461
141) Methyl parathion	(4)	10.528	109	1488	0.220
142) Di-n-butylphthalate	(4)	10.749	149	11960	0.373
143) Parathion	(4)	10.918	109	877M	0.203
144) 4-Nitroquinoline-1-oxide	(4)	10.930	190	181M	1.179
146) Isodrin	(4)	11.198	193	1435	0.465
152) Benzidine	(5)	11.478	184	45099	2.610
167)*Pyrene-d10	(5)	11.542	212	514226	20.000
156)$Terphenyl-d14	(5)	11.723	244	7702	0.447
158) p-Dimethylaminoazobenzene	(5)	11.862	225	1911	0.366
159) Chlorobenzilate	(5)	11.915	139	2677	0.320
160) 3,3'-Dimethylbenzidine	(5)	12.195	212	3426	0.225
161) Butylbenzylphthalate	(5)	12.224	149	4243	0.331
162) 2-Acetylaminofluorene	(5)	12.440	181	1822	0.196

M = Compound was manually integrated.
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on 07/18/2012 at 04:03
Target 3.5 esignature user ID: bkg00522

ASX73 0787

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
164) 3,3'-Dichlorobenzidine	(5)	12.737	252	2334	0.304
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.743	231	887M	0.228
169) bis(2-Ethylhexyl)phthalate	(5)	12.818	149	5390	0.329
189) 6-Methylchrysene	(5)	13.256	242	5834	0.403
170) Di-n-octylphthalate	(6)	13.483	149	6166	0.240
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.838	256	3097	0.378
175) *Perylene-d12	(6)	14.217	264	286460	20.000
176) 3-Methylcholanthrene	(6)	14.520	268	2914	0.366
190) Dibenz(a,h)acridine	(6)	15.127	279	3177	0.277
191) Dibenz(a,j)acridine	(6)	15.185	279	4708M	0.379
196) 2,4_2,6-Dinitrotoluenes	(3)			3133	0.687
129) Diallate TRANS/CIS	(4)			4829	0.405

M = Compound was manually integrated.
* = Compound is an internal standard.

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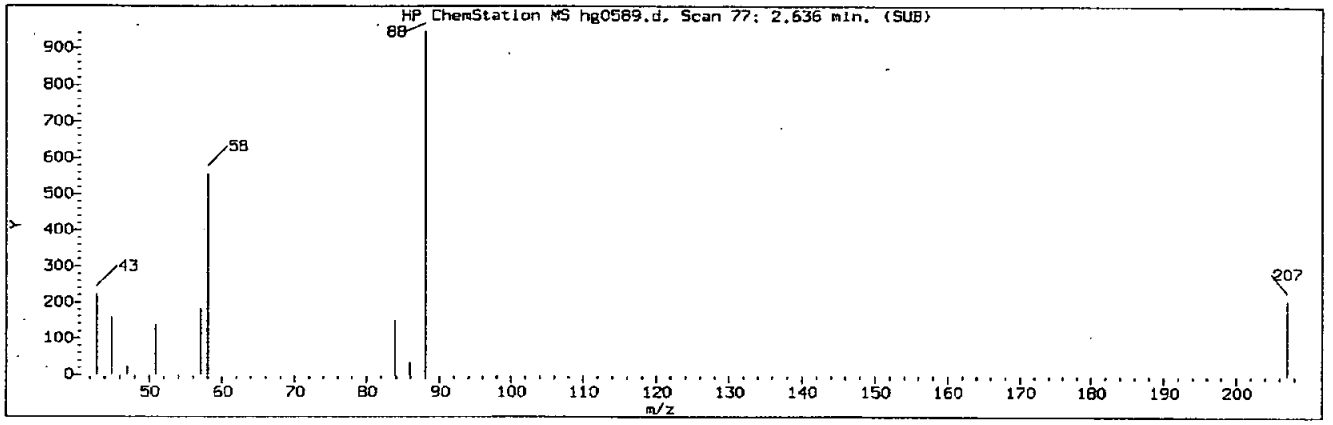
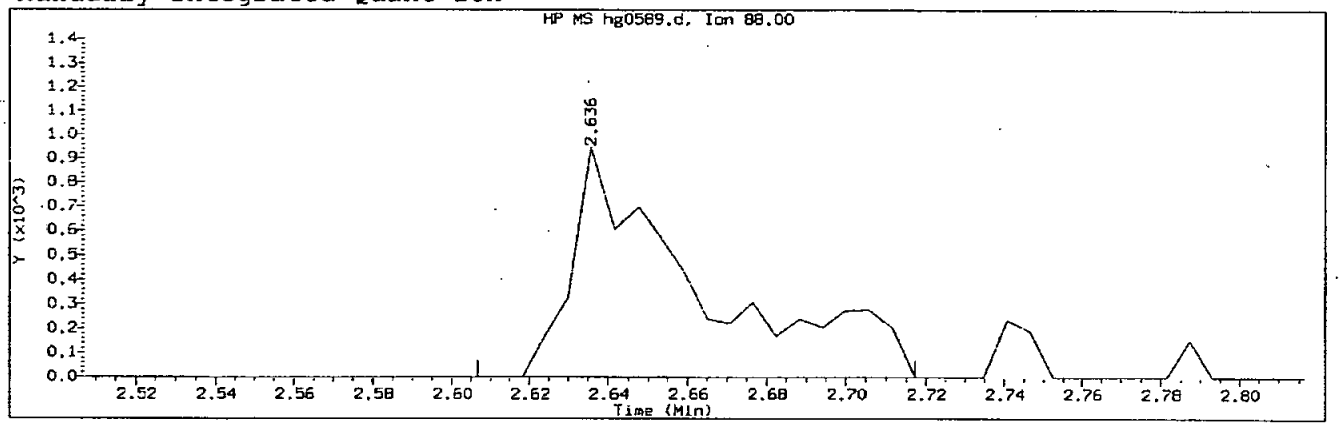
on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

ASX73 0788

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	: 1		
Compound Name	: 1,4-Dioxane		
Scan Number	: 77		
Retention Time (minutes)	: 2.636		
Quant Ion	: 88.00		
Area (flag)	: 2056M		
On-Column Amount (ng/ul)	: 0.4869		
Integration start scan	: 71	Integration stop scan:	90
Y at integration start	: 0	Y at integration end:	0

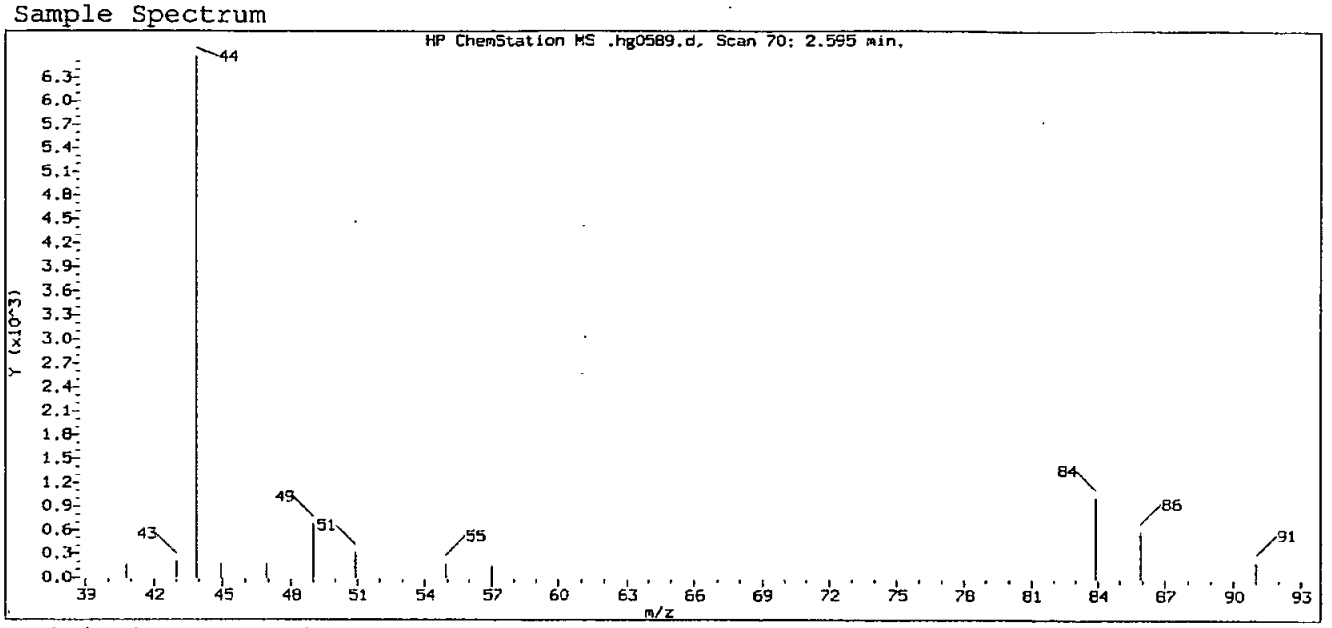
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03. Target 3.5 esignature user ID: bkg00522

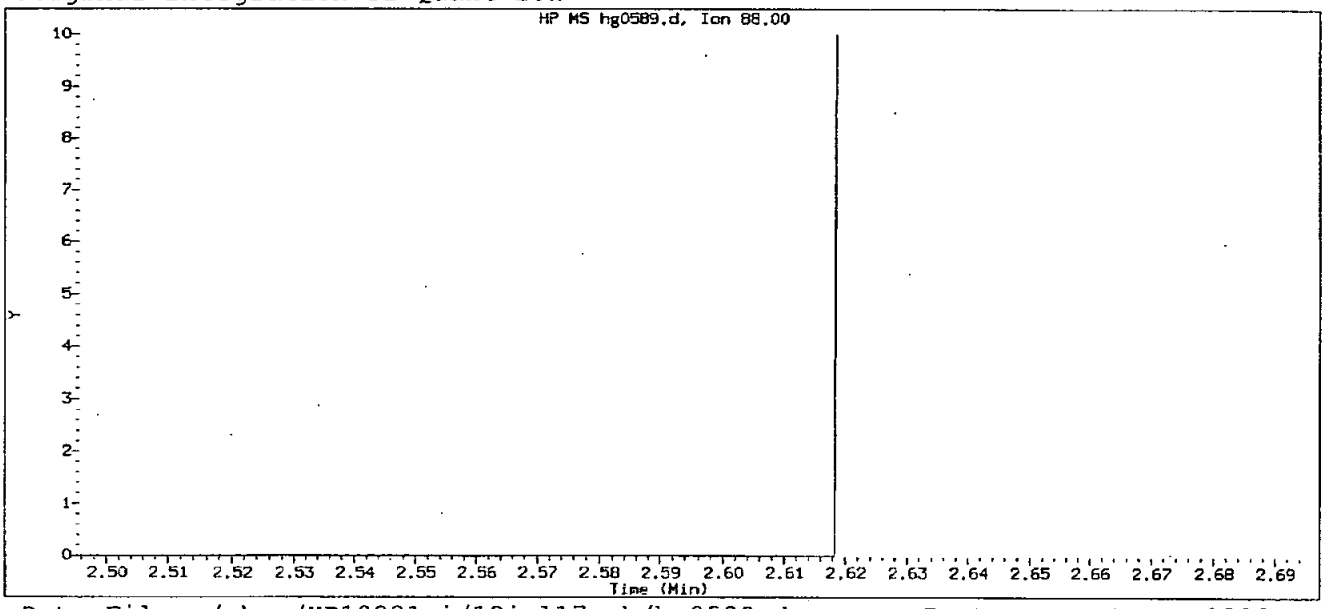
GC/MS audit/management approval: JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

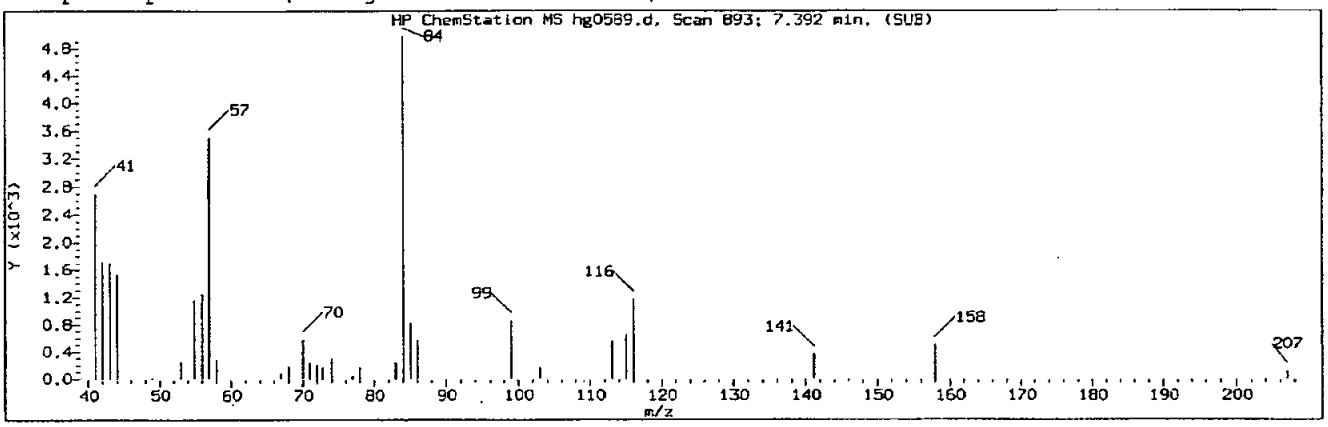
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

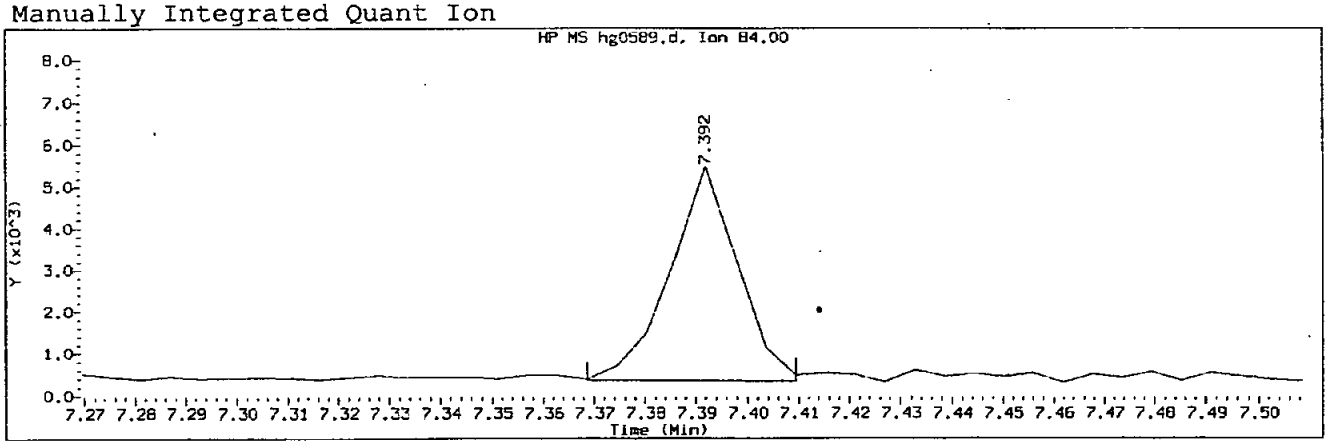
Compound Number : 1
Compound Name : 1,4-Dioxane
Expected RT (minutes) : 2.595
Quant Ion : 88.00

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	: 64		
Compound Name	: N-Nitrosodi-n-butylamine		
Scan Number	: 893		
Retention Time (minutes)	: 7.392		
Quant Ion	: 84.00		
Area (flag)	: 4733M		
On-Column Amount (ng/ul)	: 0.0000		
Integration start scan	: 888	Integration stop scan:	895
Y at integration start	: 359	Y at integration end:	344

Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03. Target 3.5 esignature user ID: bkg00522

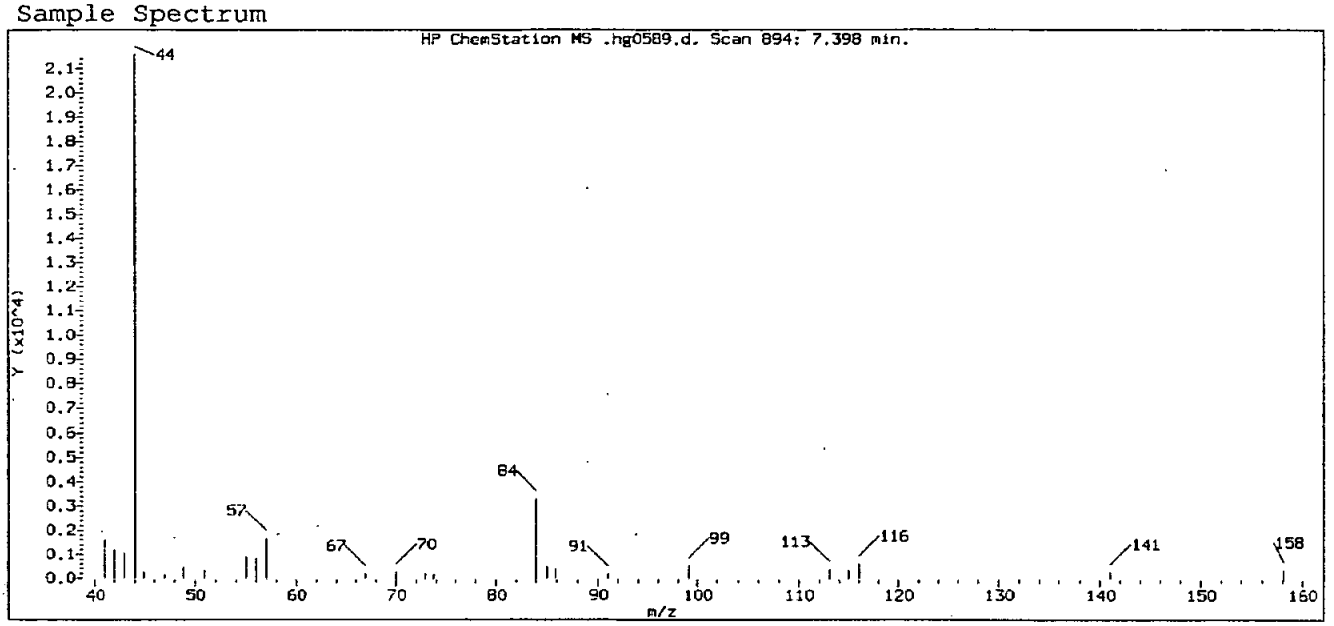
GC/MS audit/management approval: _____

JUL 18 2012

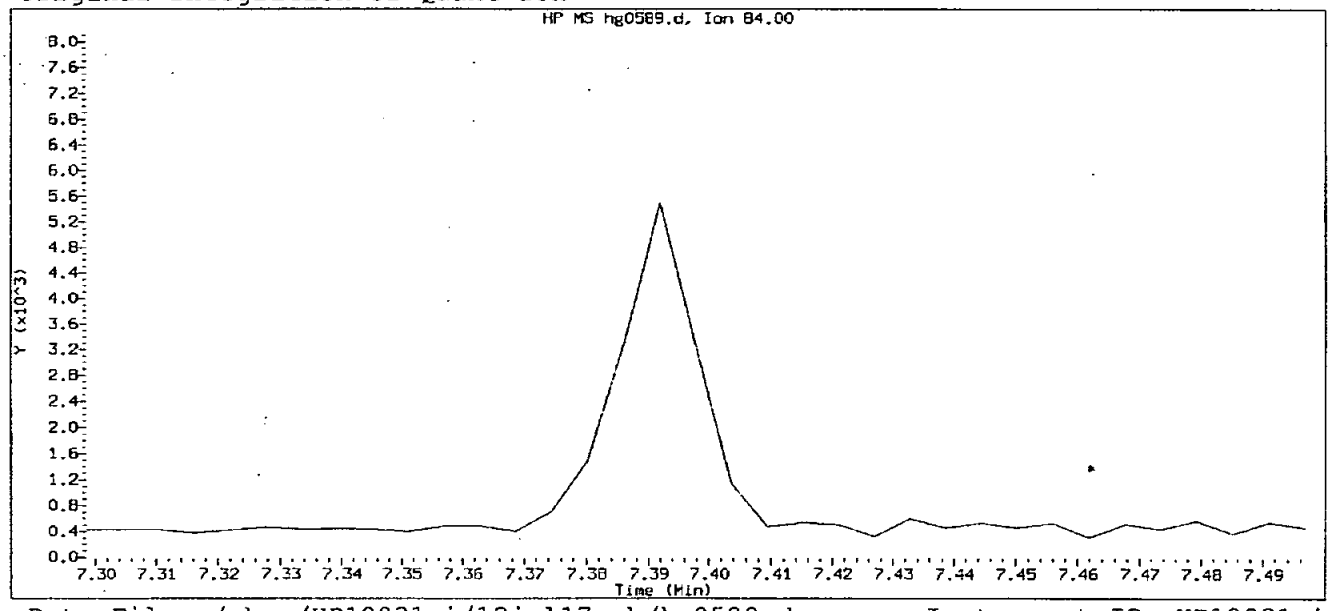
Matthew E. Barton
Senior Specialist

ASX73 8791

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdla111
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number : 64
Compound Name : N-Nitrosodi-n-butylamine
Expected RT (minutes) : 7.398
Quant Ion : 84.00

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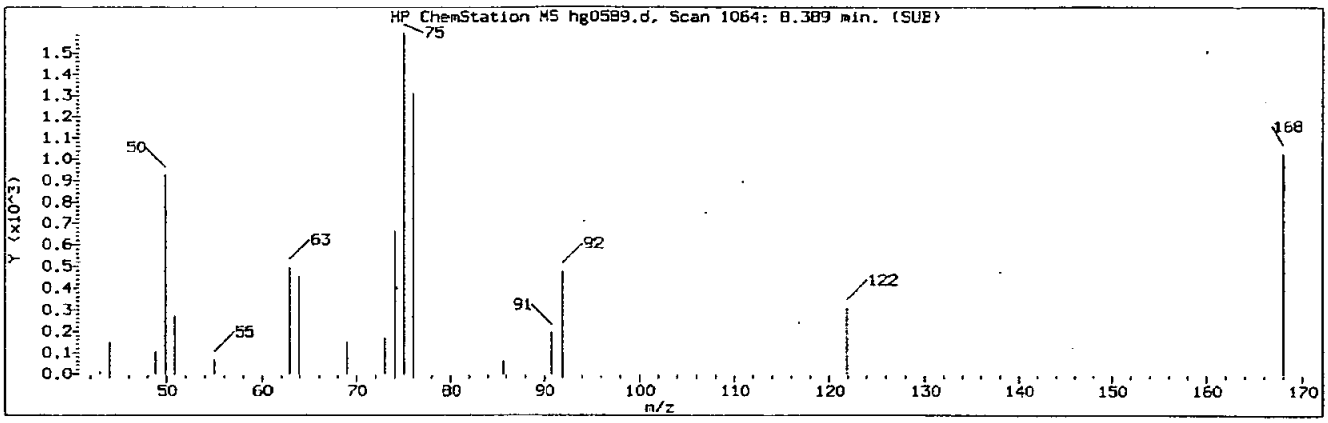
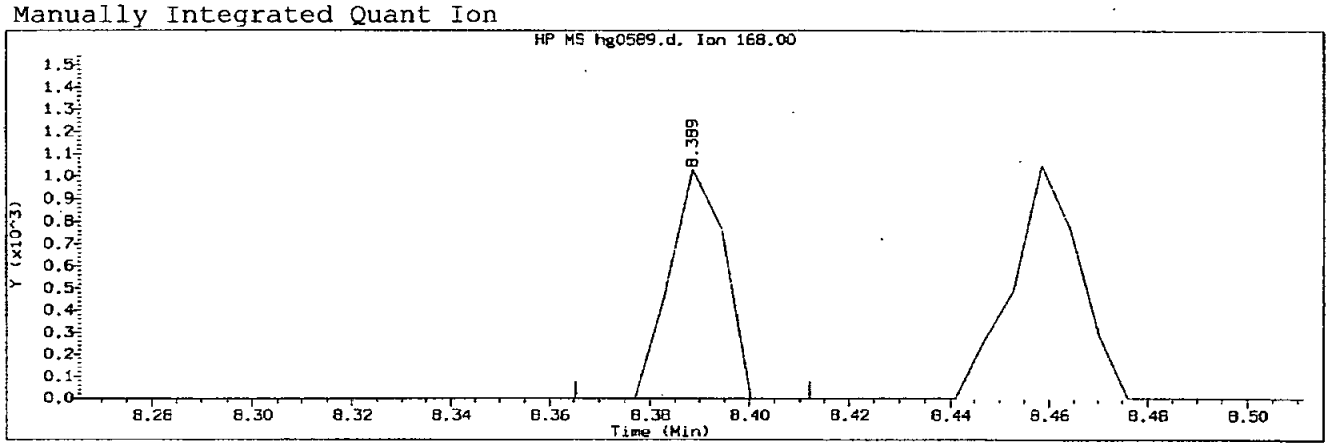
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number : 91
Compound Name : 1,4-Dinitrobenzene
Scan Number : 1064
Retention Time (minutes) : 8.389
Quant Ion : 168.00
Area (flag) : 785M
On-Column Amount (ng/ul) : 0.2730
Integration start scan : 1059 Integration stop scan: 1067
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03 Target 3.5 esignature user ID: bkg00522

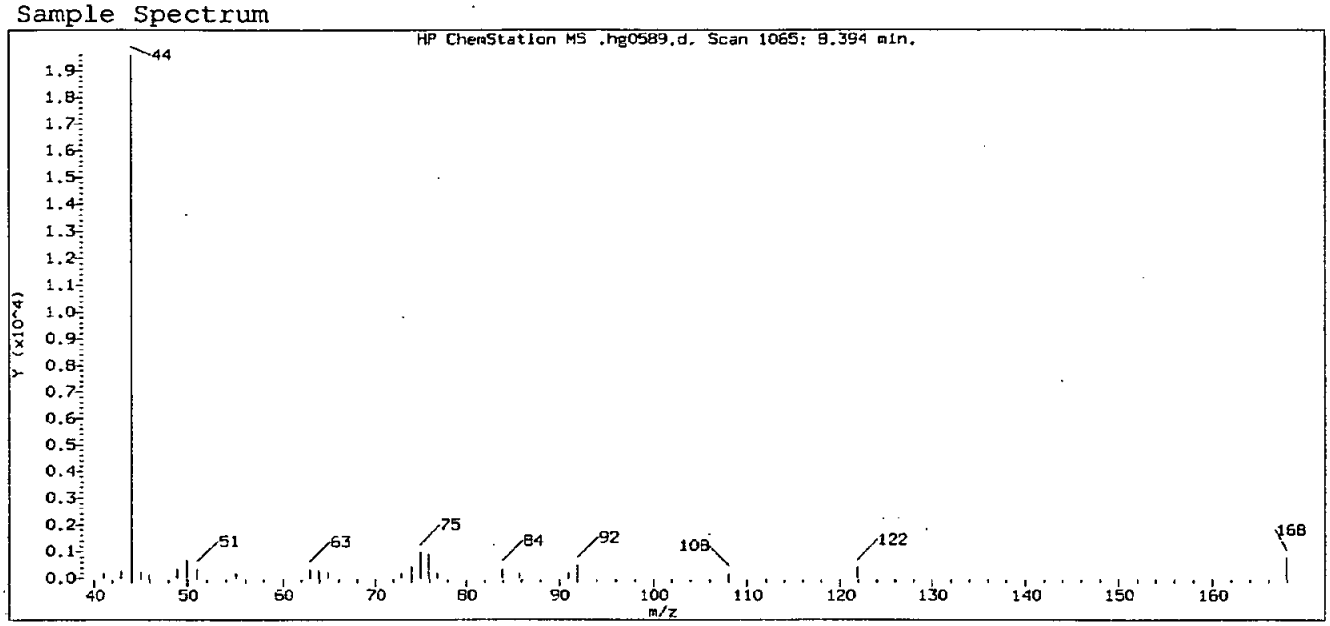
GC/MS audit/management approval: _____

JUL 18 2012

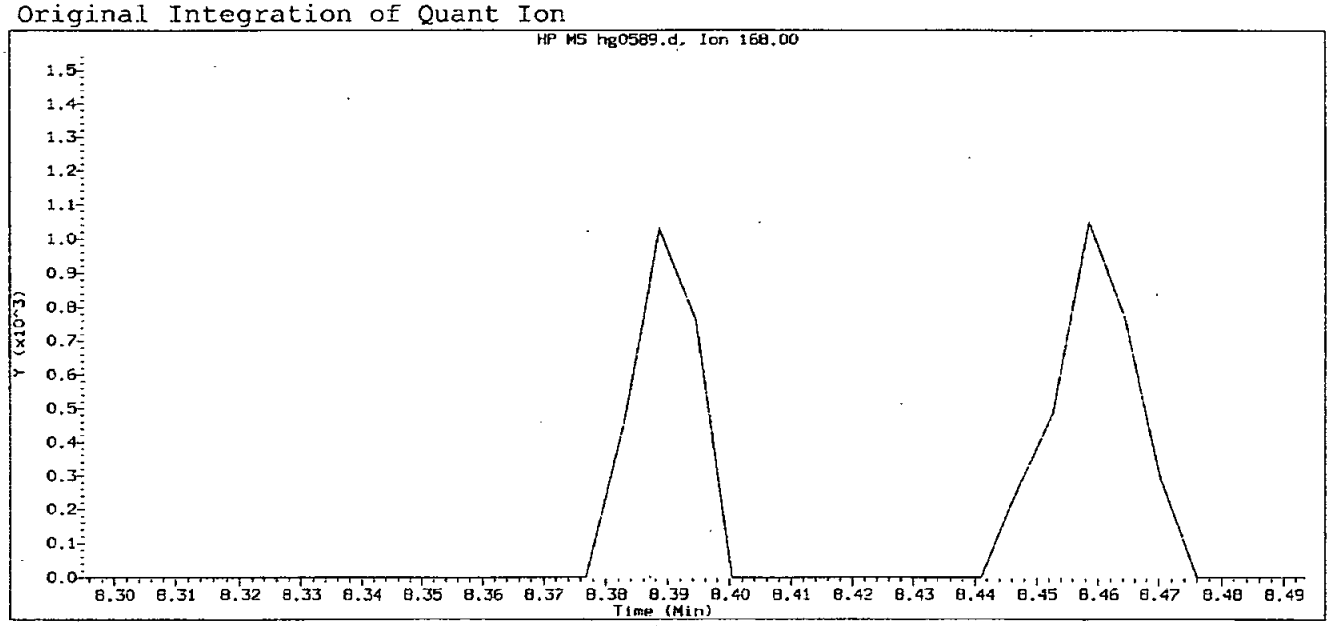
Matthew E. Barton
Senior Specialist

ASX73 0793

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

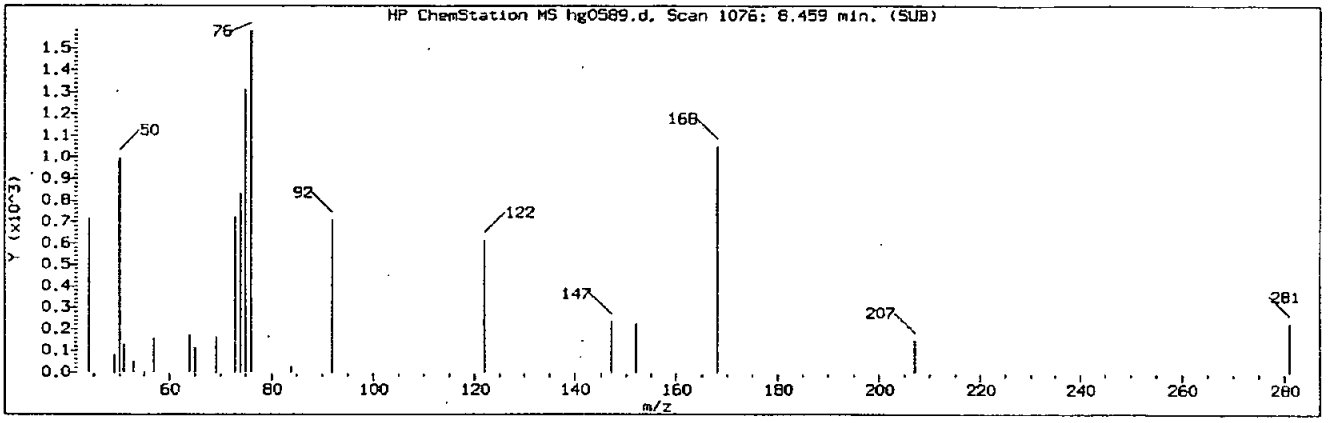
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

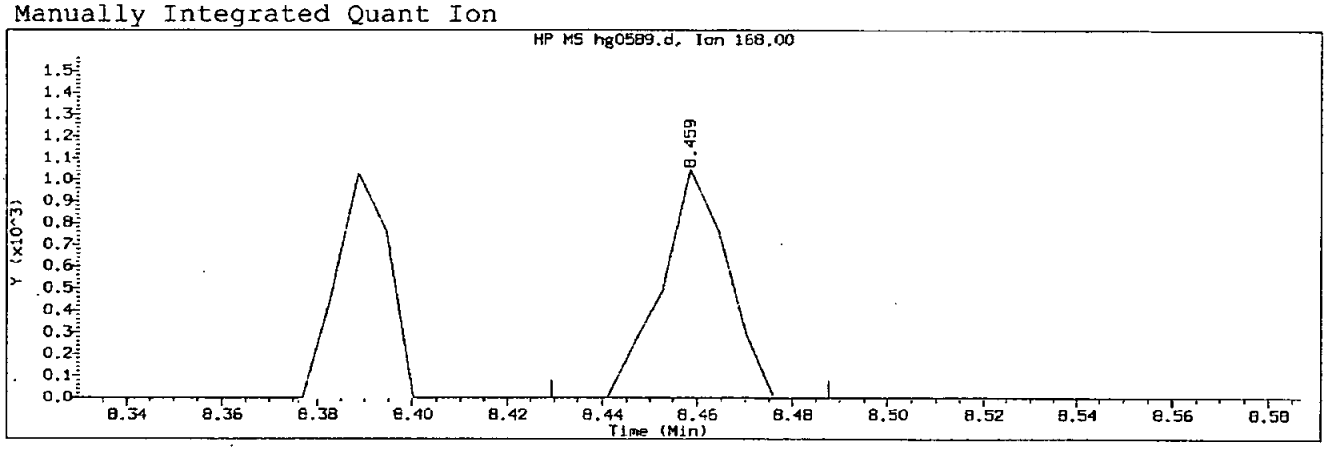
Compound Number : 91
Compound Name : 1,4-Dinitrobenzene
Expected RT (minutes) : 8.394
Quant Ion : 168.00

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	:	93
Compound Name	:	1,3-Dinitrobenzene
Scan Number	:	1076
Retention Time (minutes)	:	8.459
Quant Ion	:	168.00
Area (flag)	:	998M
On-Column Amount (ng/ul)	:	0.2954
Integration start scan	:	1070 Integration stop scan: 1080
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration: improper integration

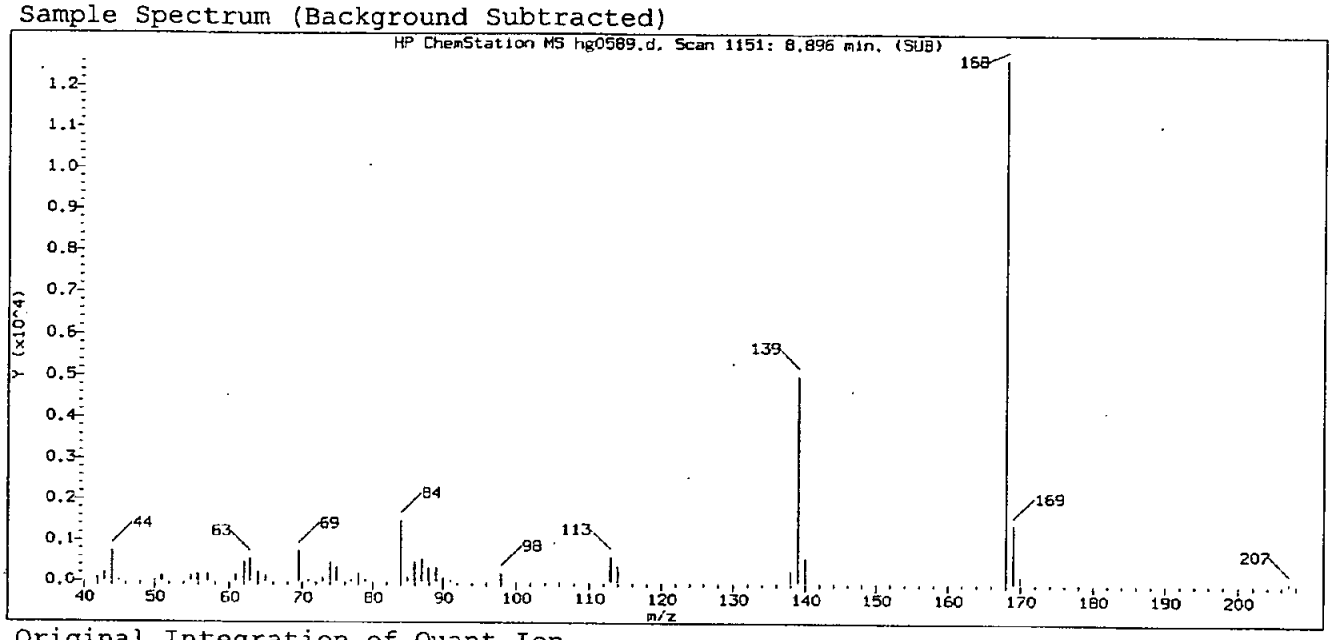
Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03 Target 3.5 esignature user ID: bkg00522

GC/MS audit/management approval: JUL 18 2012

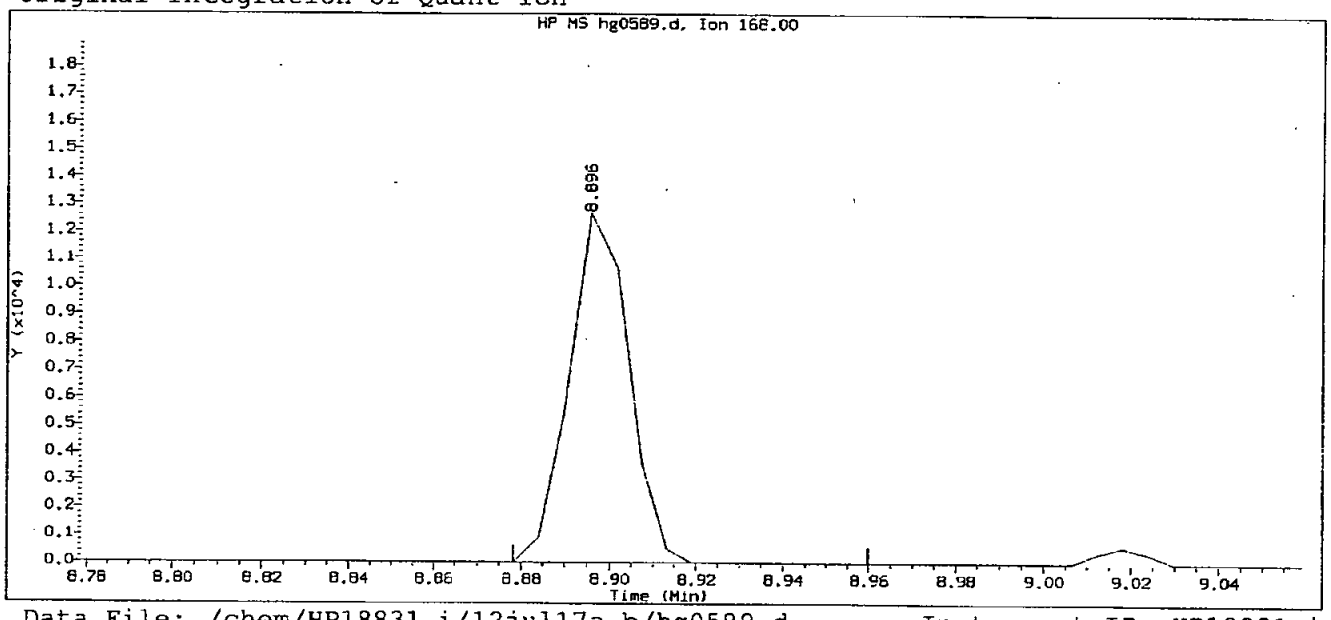
Matthew E. Barton
Senior Specialist

ASX73 0795

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

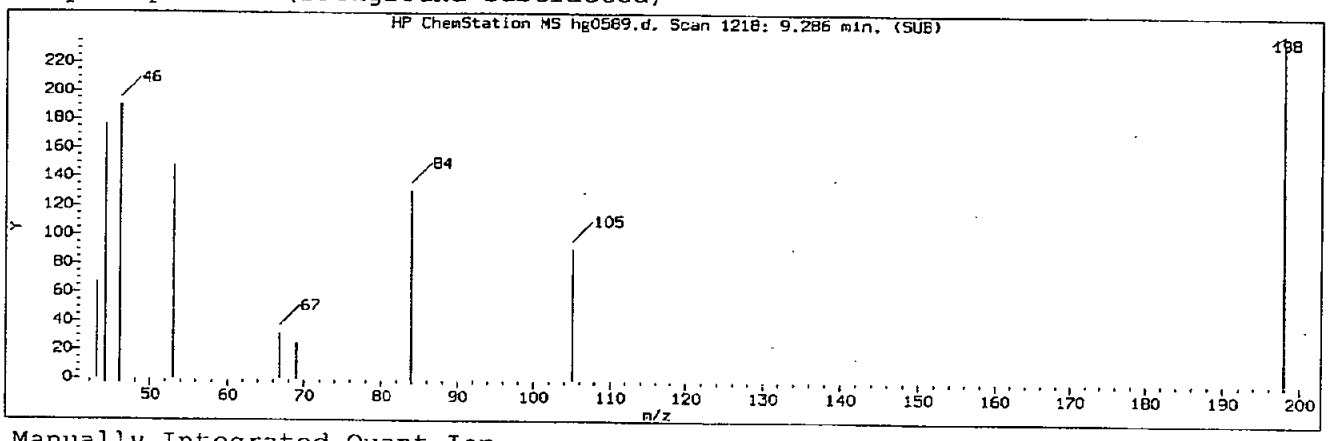
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlalll
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

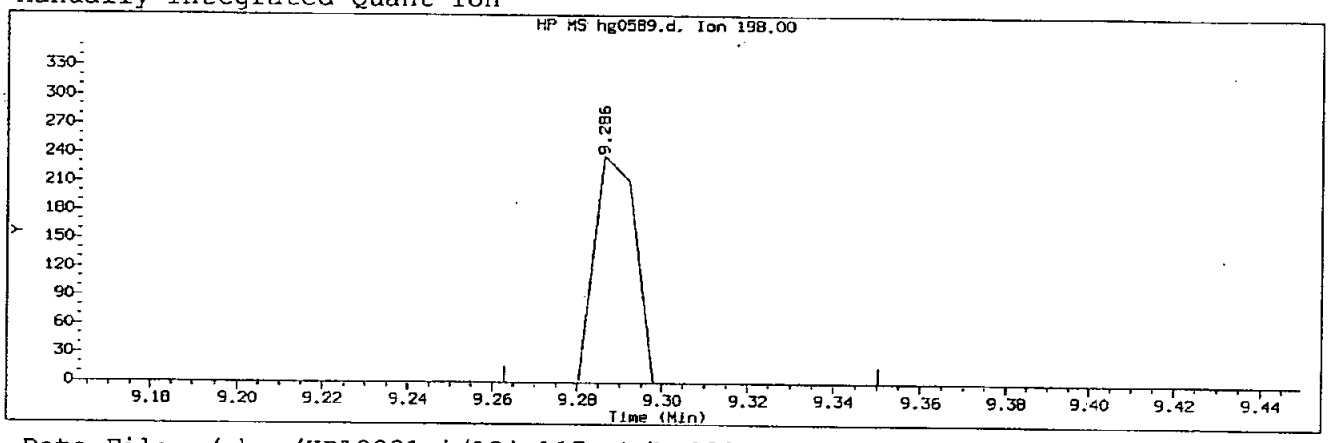
Compound Number	:	93
Compound Name	:	1,3-Dinitrobenzene
Scan Number	:	1151
Retention Time (minutes)	:	8.896
Quant Ion	:	168.00
Area	:	11847
On-column Amount (ng/ul)	:	3.5043
Integration start scan	:	1147 Integration stop scan: 1161
Y at integration start	:	0 Y at integration end: 0

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number : 115
Compound Name : 4,6-Dinitro-2-methylphenol
Scan Number : 1218
Retention Time (minutes) : 9.286
Quant Ion : 198.00
Area (flag) : 157M
On-Column Amount (ng/ul) : 0.0472
Integration start scan : 1213 Integration stop scan: 1228
Y at integration start : 0 Y at integration end: 0

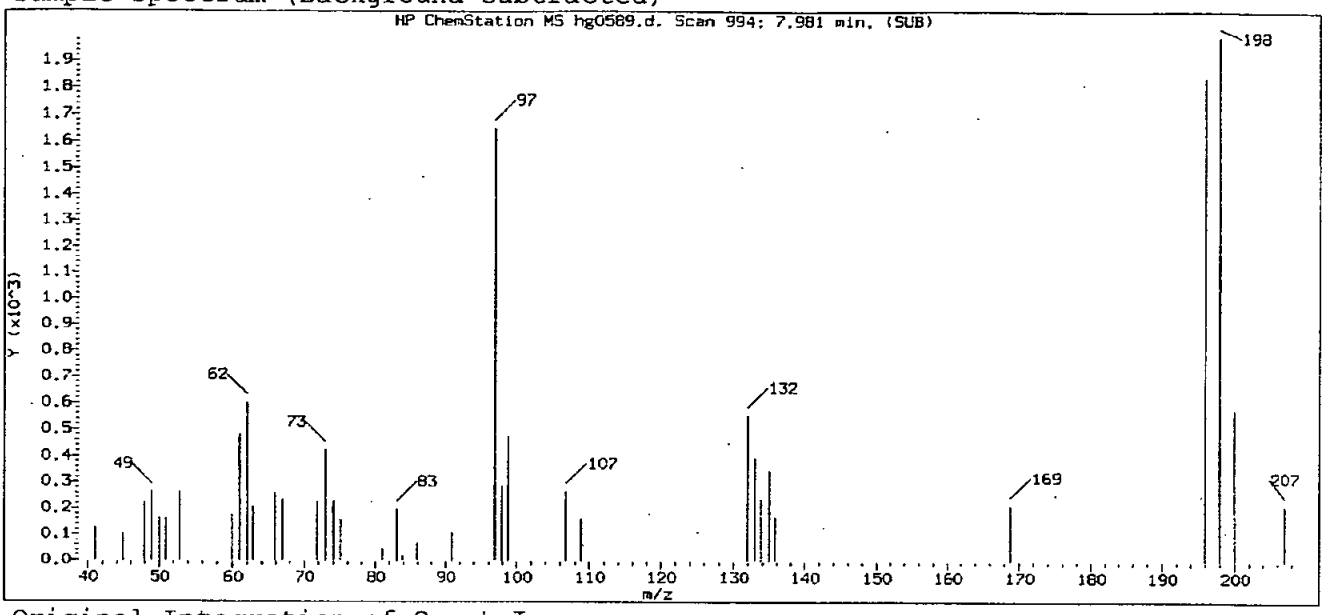
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03 Target 3.5 esignature user ID: bkg00522

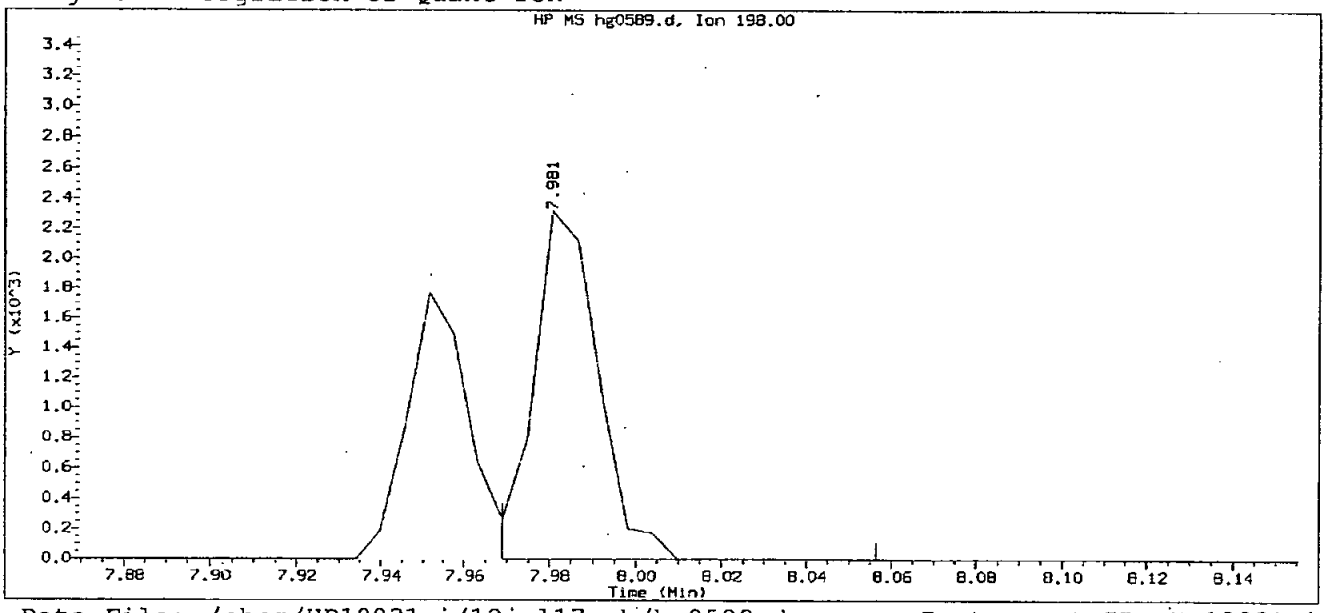
GC/MS audit/management approval: JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

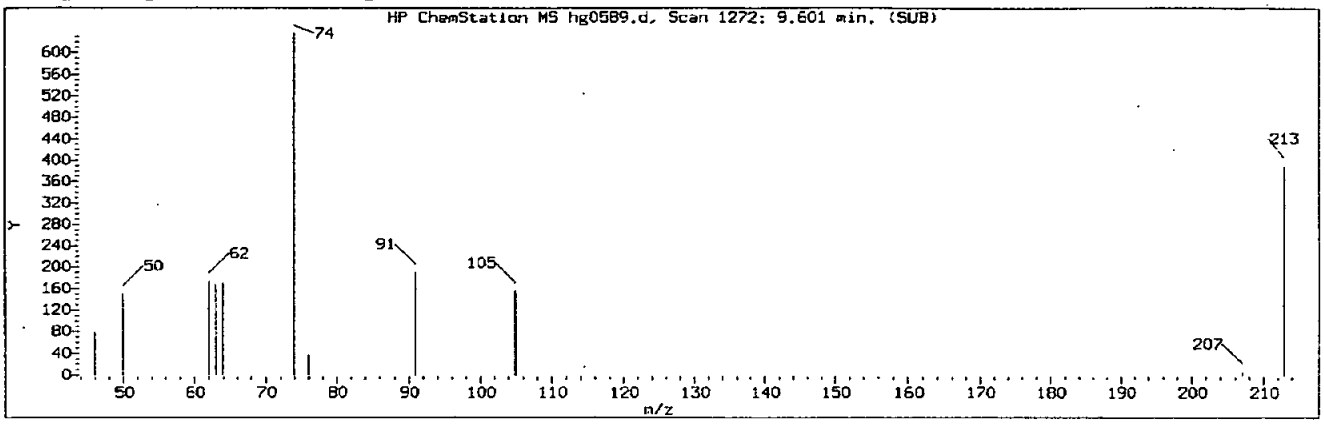
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

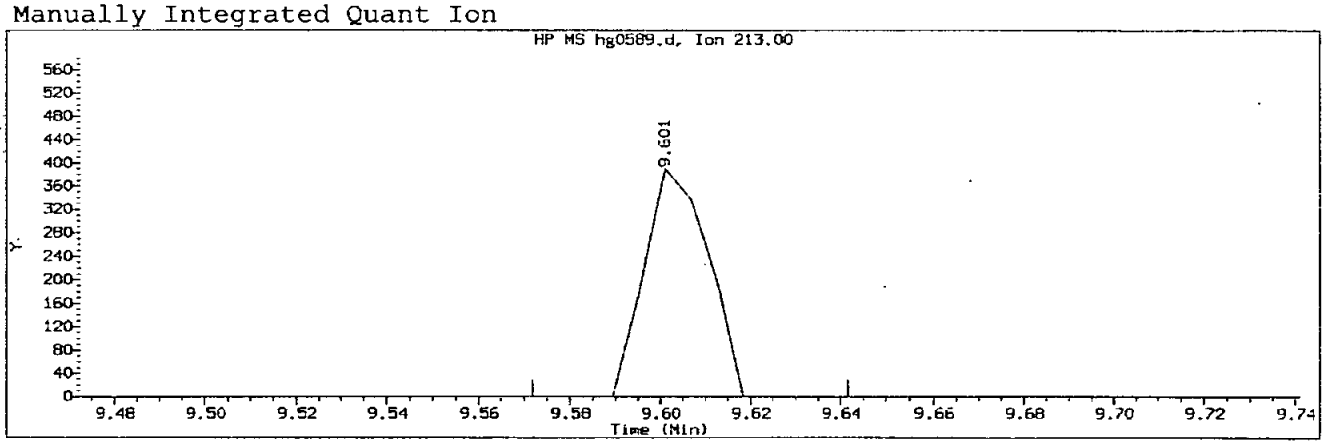
Compound Number	:	115
Compound Name	:	4,6-Dinitro-2-methylphenol
Scan Number	:	994
Retention Time (minutes)	:	7.981
Quant Ion	:	198.00
Area	:	2367
On-column Amount (ng/ul)	:	0.7102
Integration start scan	:	991 Integration stop scan: 1006
Y at integration start	:	0 Y at integration end: 0

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlalll
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	:	121
Compound Name	:	1,3,5-Trinitrobenzene
Scan Number	:	1272
Retention Time (minutes)	:	9.601
Quant Ion	:	213.00
Area (flag)	:	383M
On-Column Amount (ng/ul)	:	3.7525
Integration start scan	:	1266 Integration stop scan: 1278
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration: missed peak

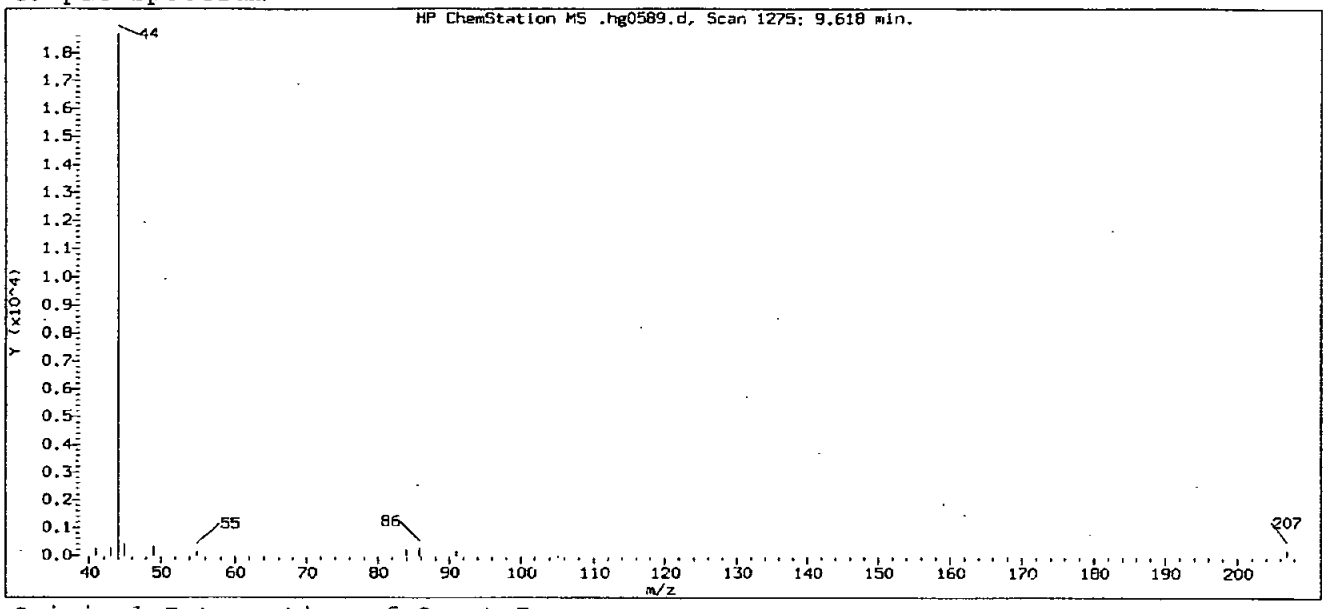
Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03. Target 3.5 esignature user ID: bkg00522

GC/MS audit/management approval: _____
JUL 18 2012

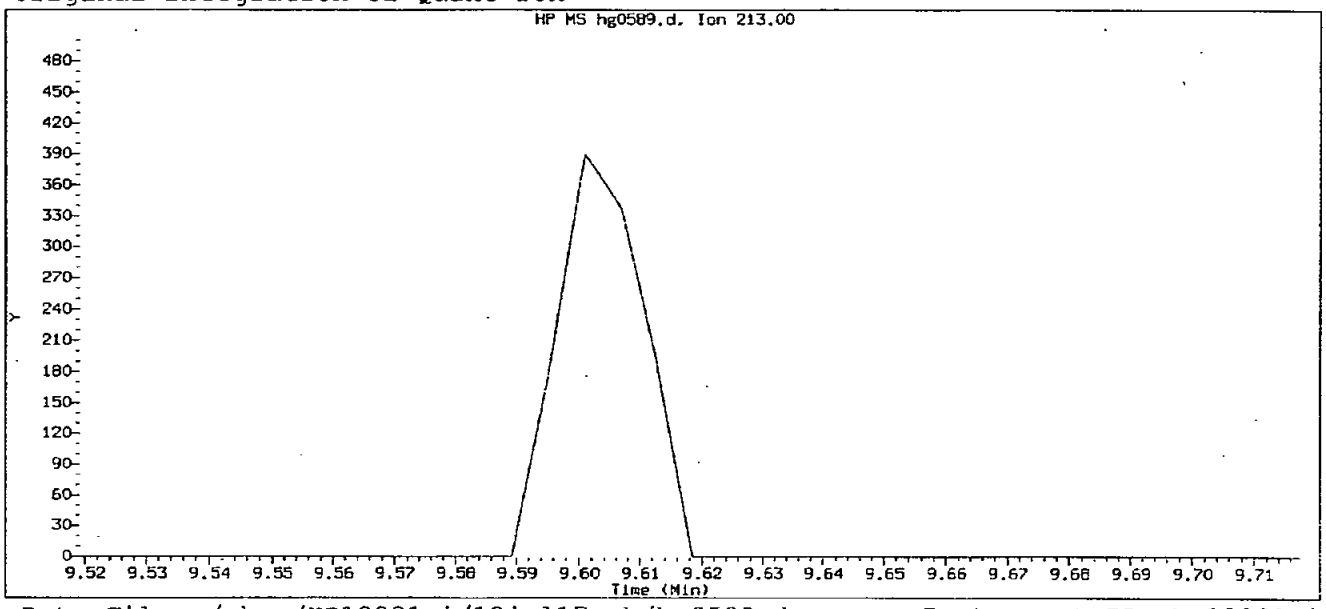
Matthew E. Barton
Senior Specialist

ASX73 0799

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

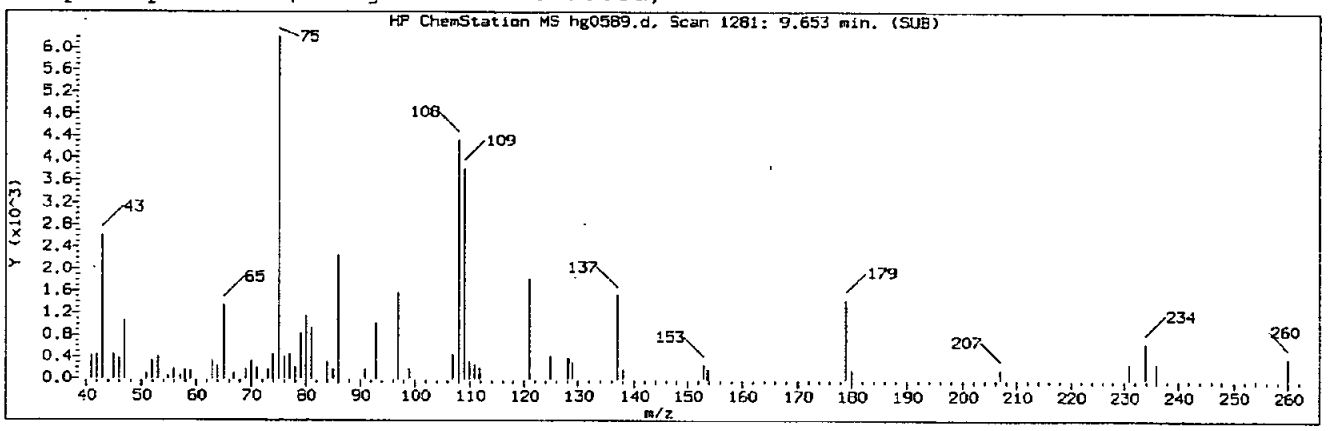
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

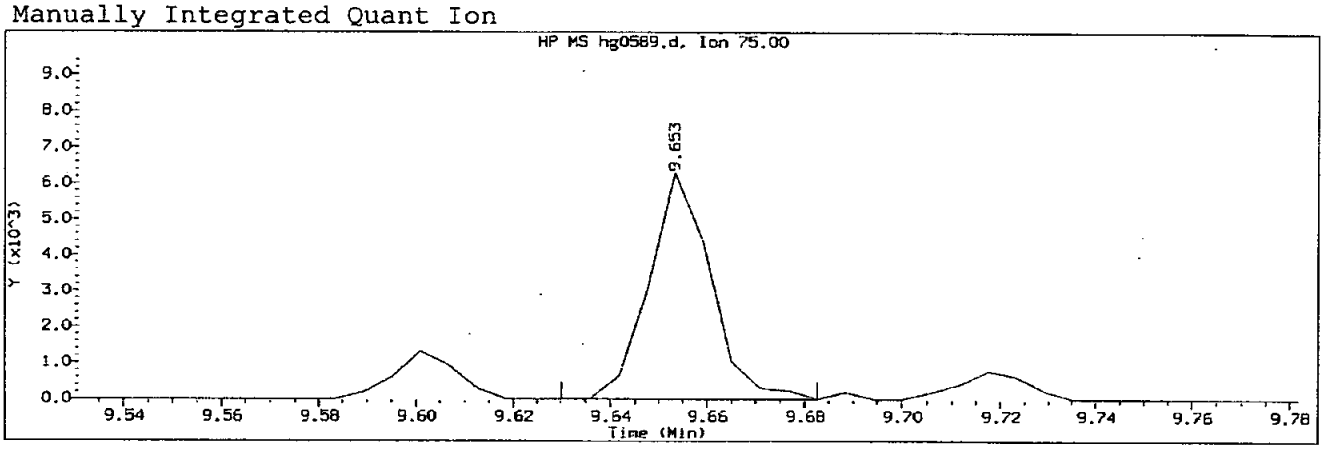
Compound Number : 121
Compound Name : 1,3,5-Trinitrobenzene
Expected RT (minutes) : 9.618
Quant Ion : 213.00

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	: 123	
Compound Name	: Phorate	
Scan Number	: 1281	
Retention Time (minutes)	: 9.653	
Quant Ion	: 75.00	
Area (flag)	: 5577M	
On-Column Amount (ng/ul)	: 0.0000	
Integration start scan	: 1276	Integration stop scan: 1285
Y at integration start	: 0	Y at integration end: 0

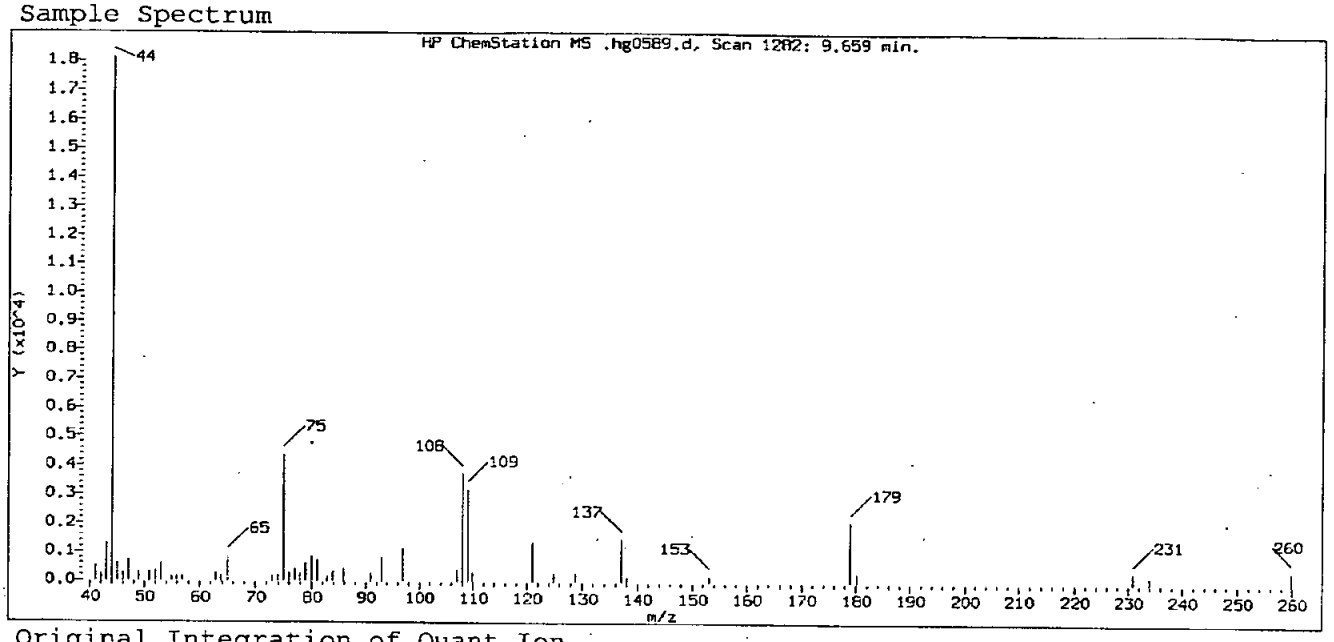
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03 Target 3.5 esignature user ID: bkg00522

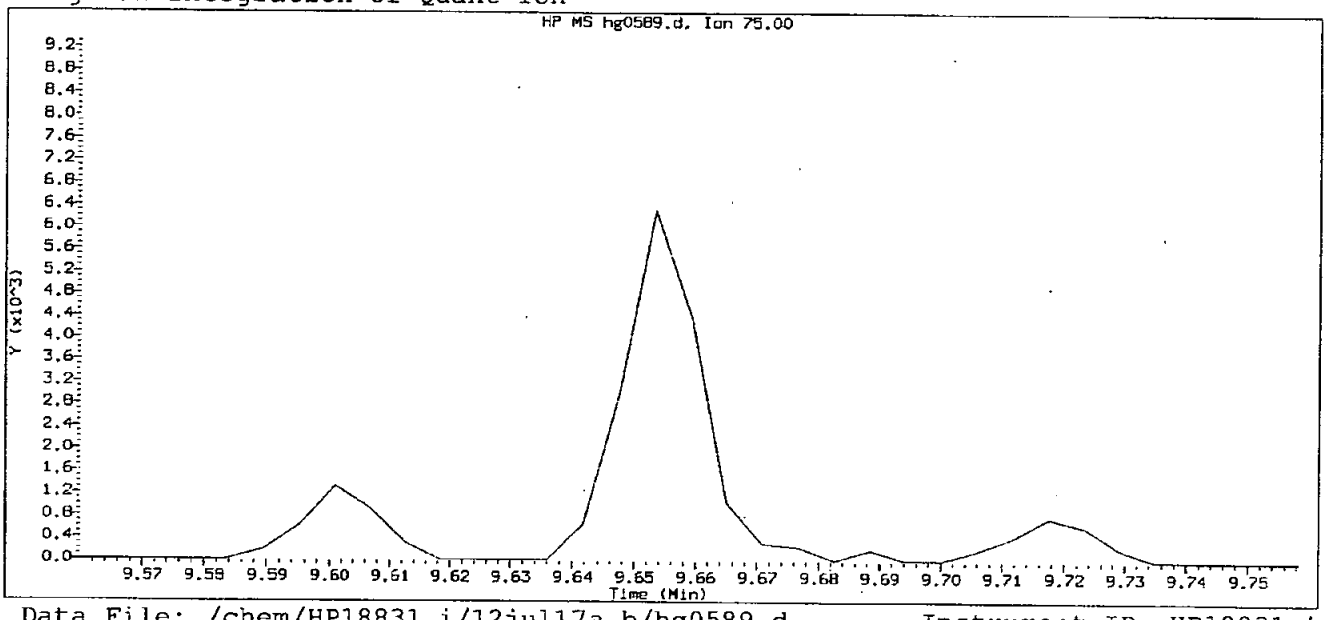
GC/MS audit/management approval: _____
JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d
Injection date and time: 17-JUL-2012 21:55

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:05

Sublist used: 0.5mdlall1

Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

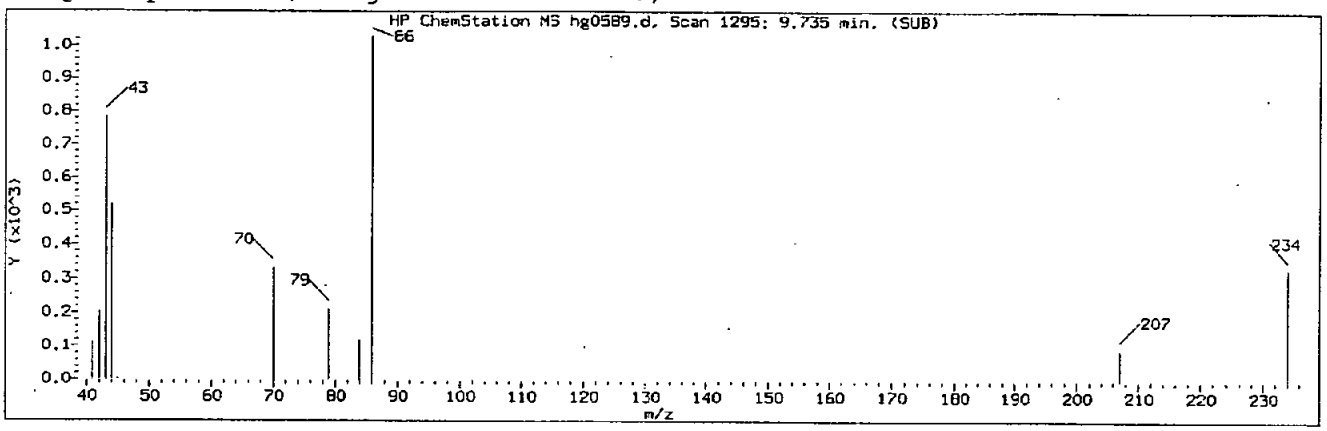
Sample Name: SSTD0.5

Lab Sample ID: MDLSTD1982

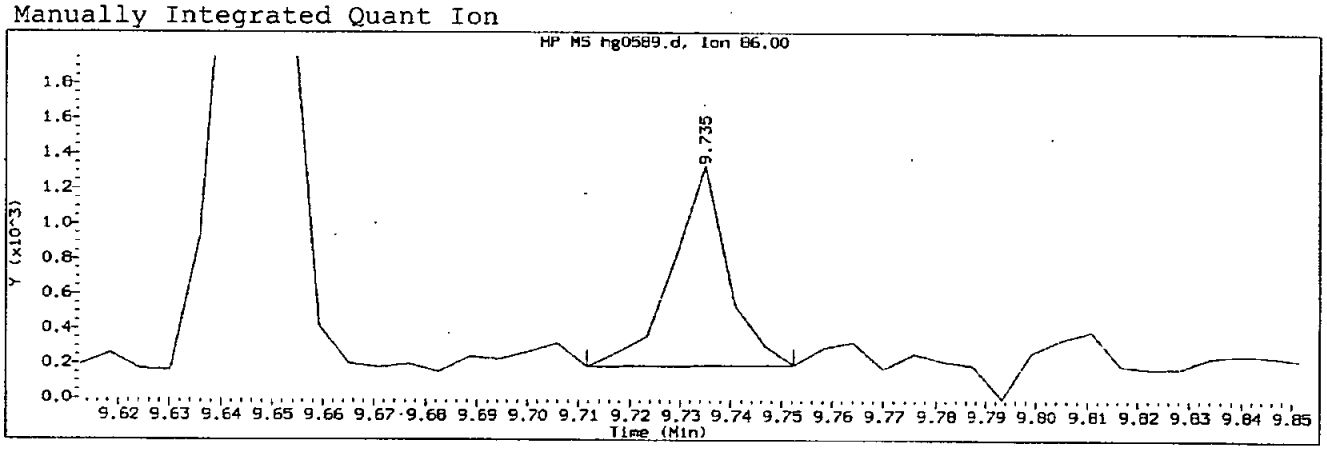
Compound Number : 123
Compound Name : Phorate
Expected RT (minutes) : 9.659
Quant Ion : 75.00

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	:	126
Compound Name	:	Diallate (peak 2)
Scan Number	:	1295
Retention Time (minutes)	:	9.735
Quant Ion	:	86.00
Area (flag)	:	867M
On-Column Amount (ng/ul)	:	0.1068
Integration start scan	:	1290 Integration stop scan: 1297
Y at integration start	:	186 Y at integration end: 193

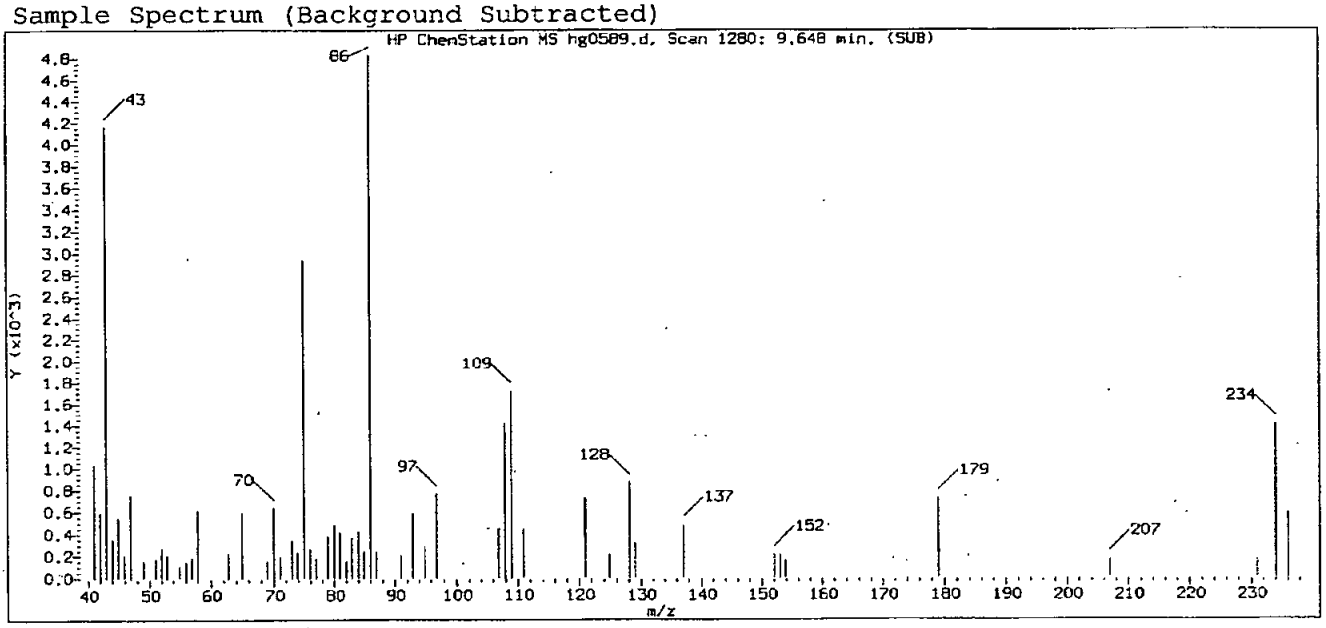
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03. Target 3.5 esignature user ID: bkg00522

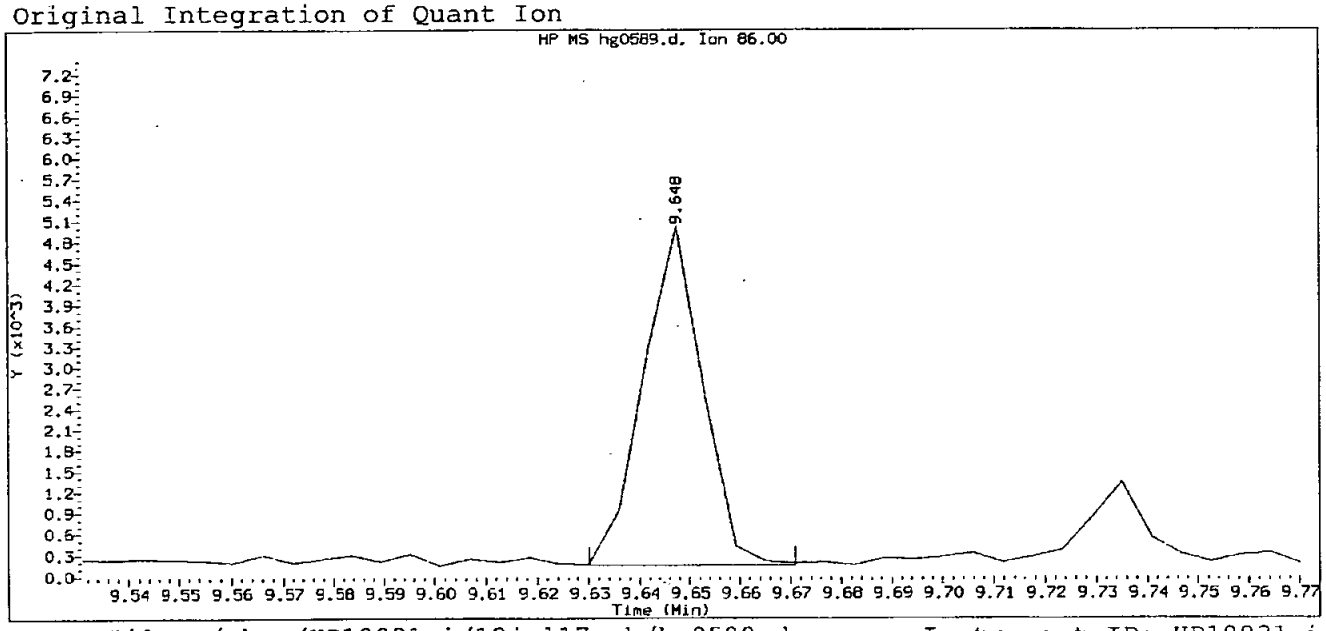
GC/MS audit/management approval: JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

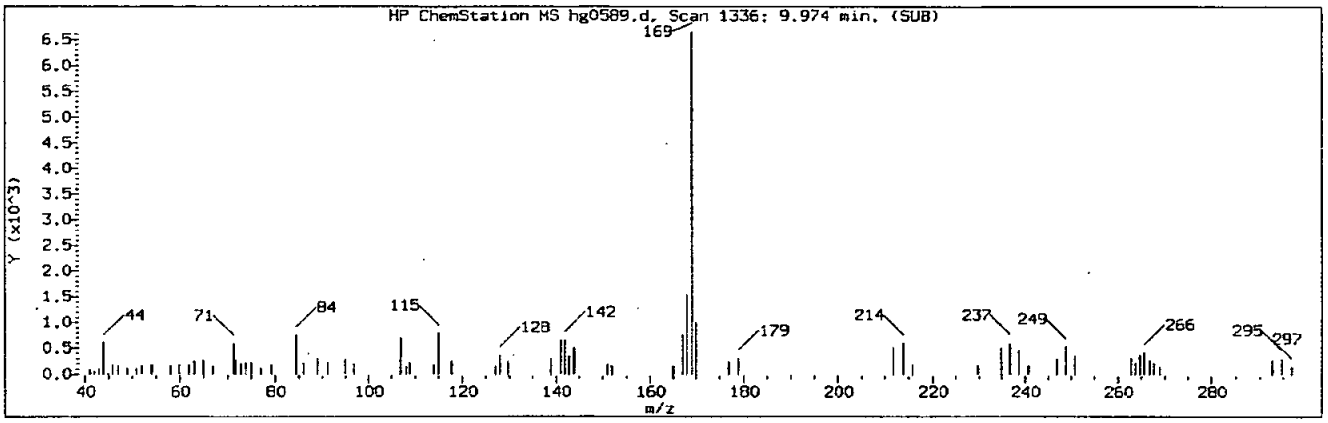
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

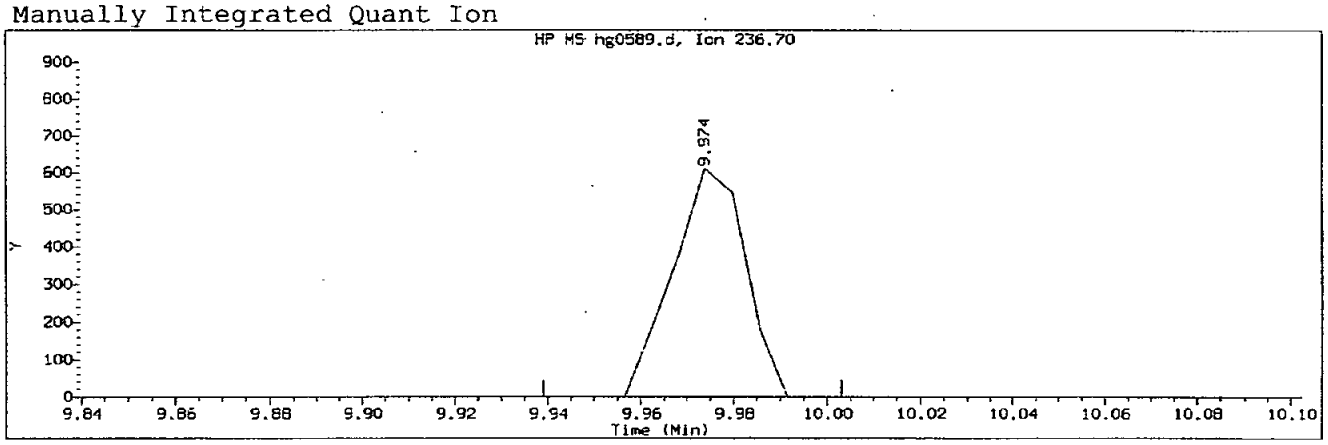
Compound Number	: 126		
Compound Name	: Diallate (peak 2)		
Scan Number	: 1280		
Retention Time (minutes)	: 9.648		
Quant Ion	: 86.00		
Area	: 3987		
On-column Amount (ng/ul)	: 0.4906		
Integration start scan	: 1276	Integration stop scan:	1283
Y at integration start	: 152	Y at integration end:	152

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	:	132
Compound Name	:	Pentachloronitrobenzene
Scan Number	:	1336
Retention Time (minutes)	:	9.974
Quant Ion	:	237.00
Area (flag)	:	665M
On-Column Amount (ng/ul)	:	0.3158
Integration start scan	:	1329 Integration stop scan: 1340
Y at integration start	:	0 Y at integration end: 0

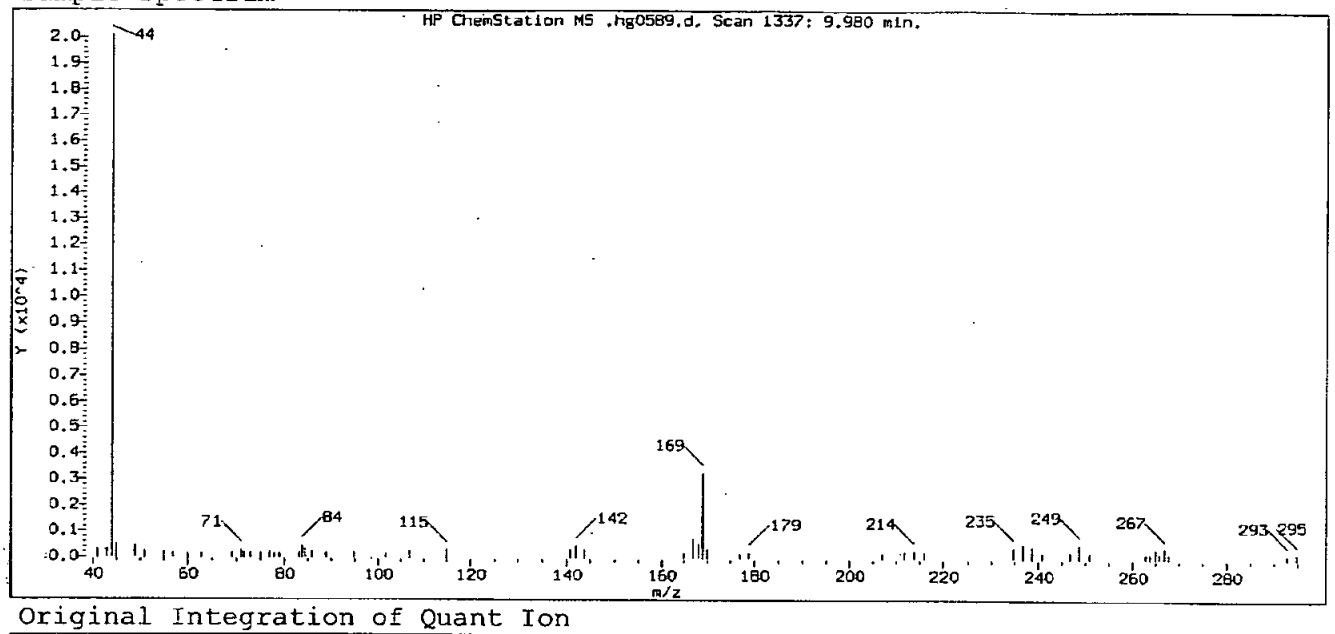
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03 Target 3.5 esignature user ID: bkg00522

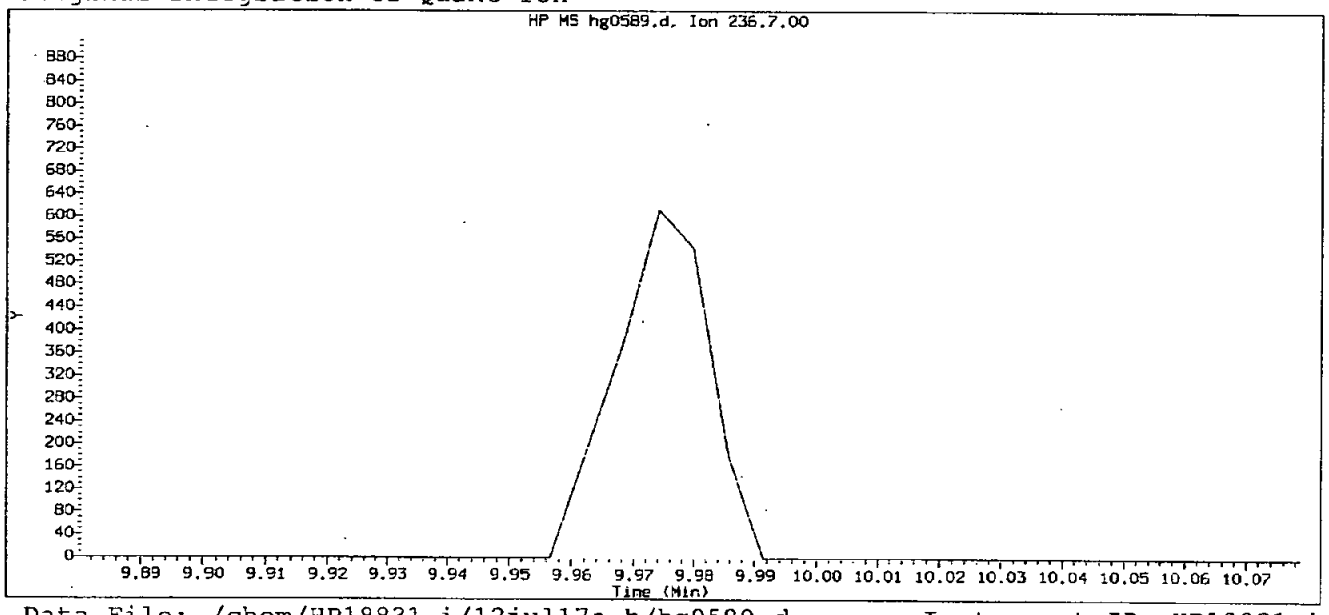
GC/MS audit/management approval: _____
JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

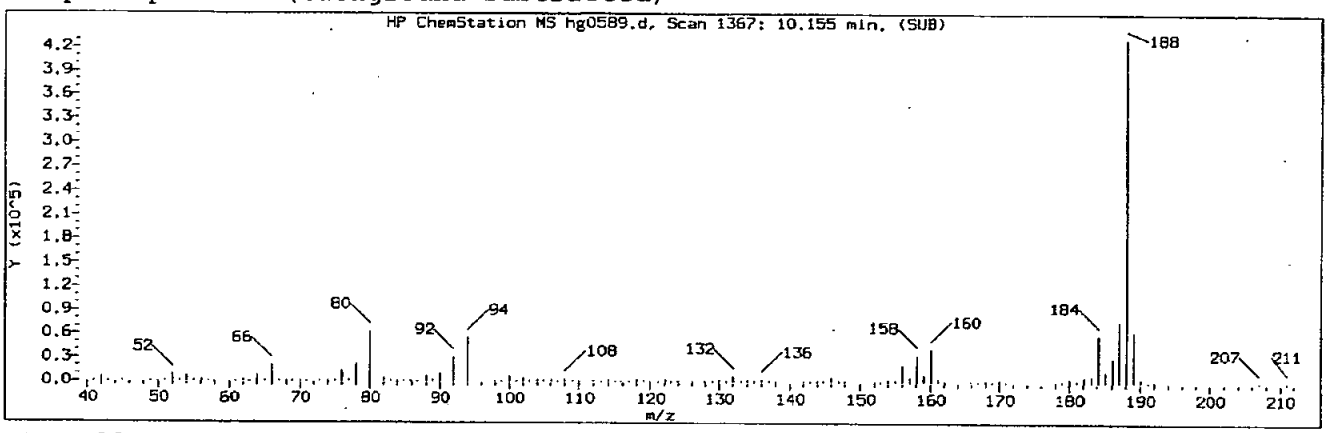
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

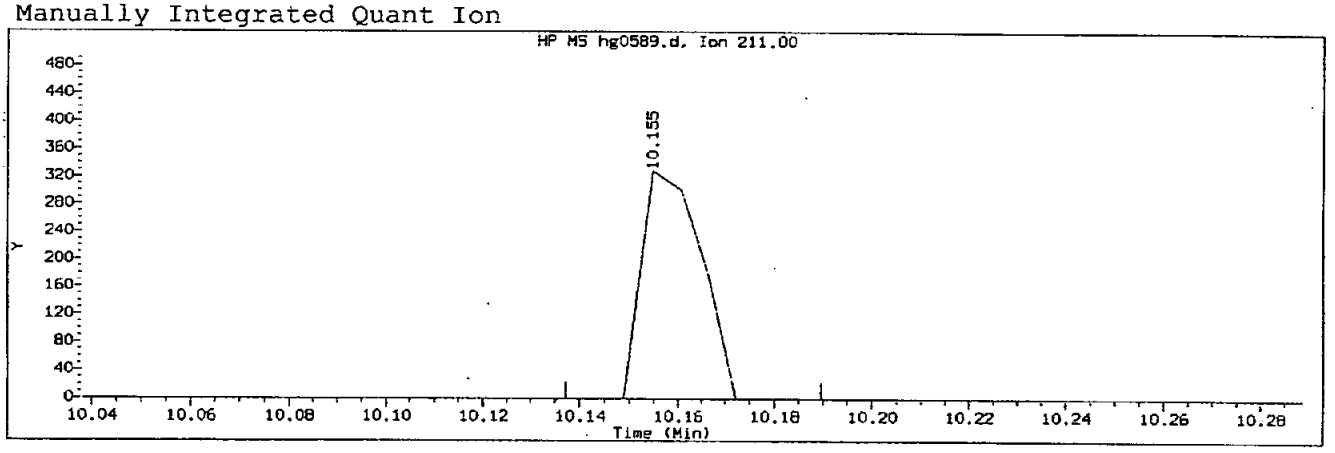
Compound Number : 132
Compound Name : Pentachloronitrobenzene
Expected RT (minutes) : 9.980
Quant Ion : 237.00

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	:	136
Compound Name	:	Dinoseb
Scan Number	:	1367
Retention Time (minutes)	:	10.155
Quant Ion	:	211.00
Area (flag)	:	282M
On-Column Amount (ng/ul)	:	3.8523
Integration start scan	:	1363
Y at integration start	:	0

Integration stop scan: 1372
Y at integration end: 0

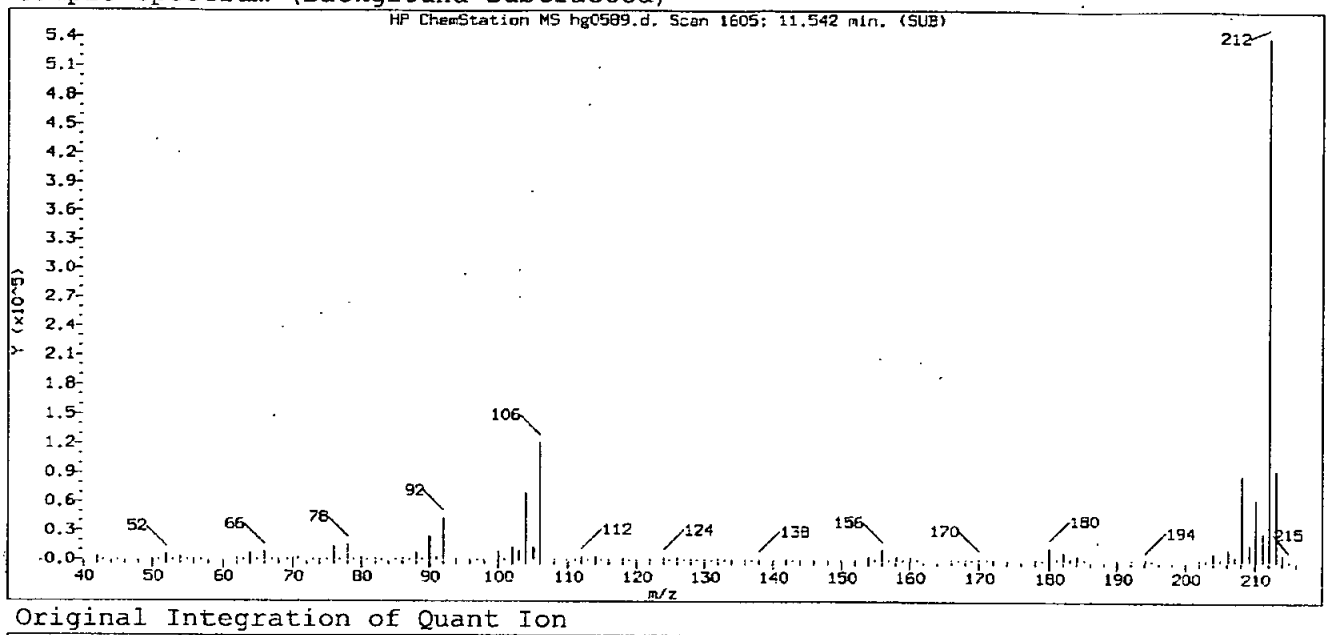
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03 Target 3.5 esignature user ID: bkg00522

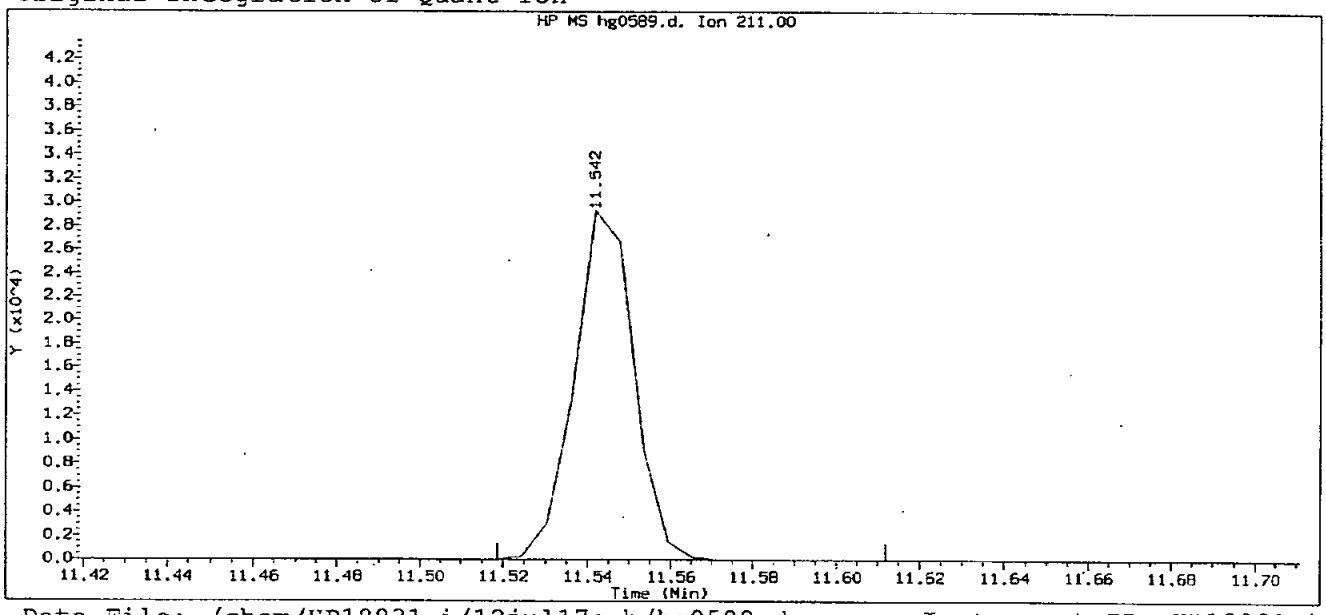
GC/MS audit/management approval: JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

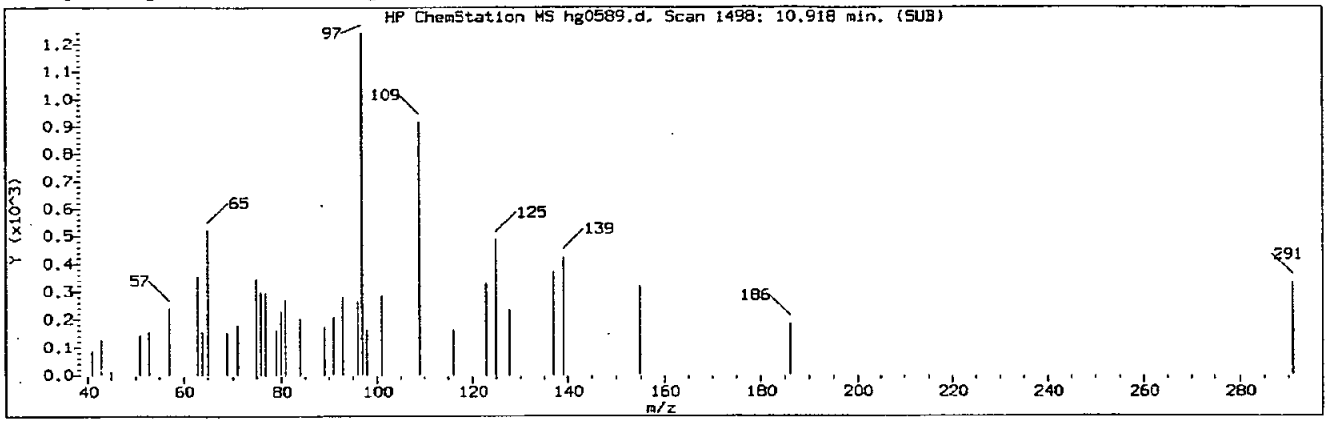
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

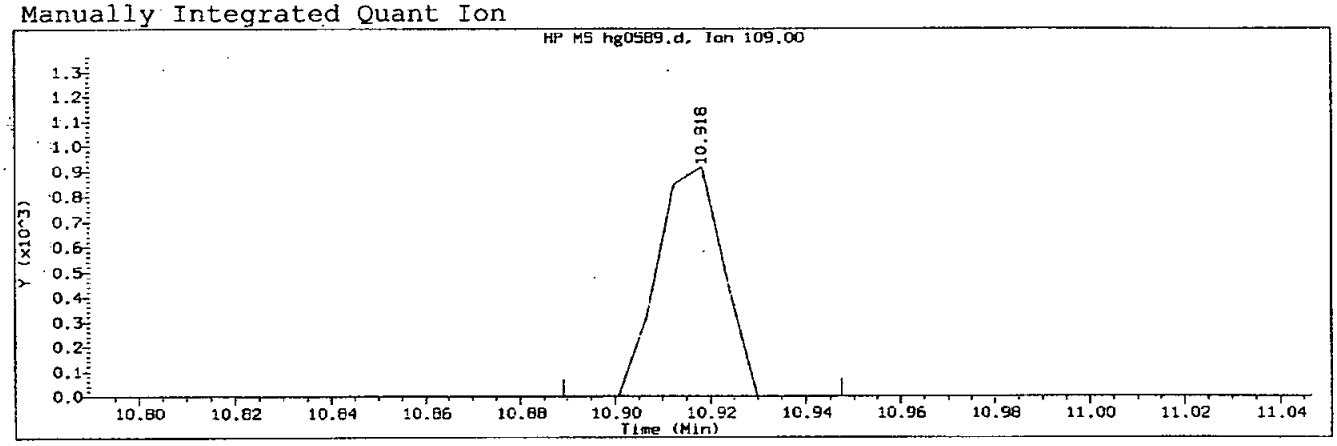
Compound Number	: 136	
Compound Name	: Dinoseb	
Scan Number	: 1605	
Retention Time (minutes)	: 11.542	
Quant Ion	: 211.00	
Area	: 29162	
On-column Amount (ng/ul)	: 9.1347	
Integration start scan	: 1600	Integration stop scan: 1616
Y at integration start	: 0	Y at integration end: 0

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlalll
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	:	143
Compound Name	:	Parathion
Scan Number	:	1498
Retention Time (minutes)	:	10.918
Quant Ion	:	109.00
Area (flag)	:	877M
On-Column Amount (ng/ul)	:	0.2031
Integration start scan	:	1492
Integration stop scan	:	1502
Y at integration start	:	0
Y at integration end	:	0

Reason for manual integration: improper integration

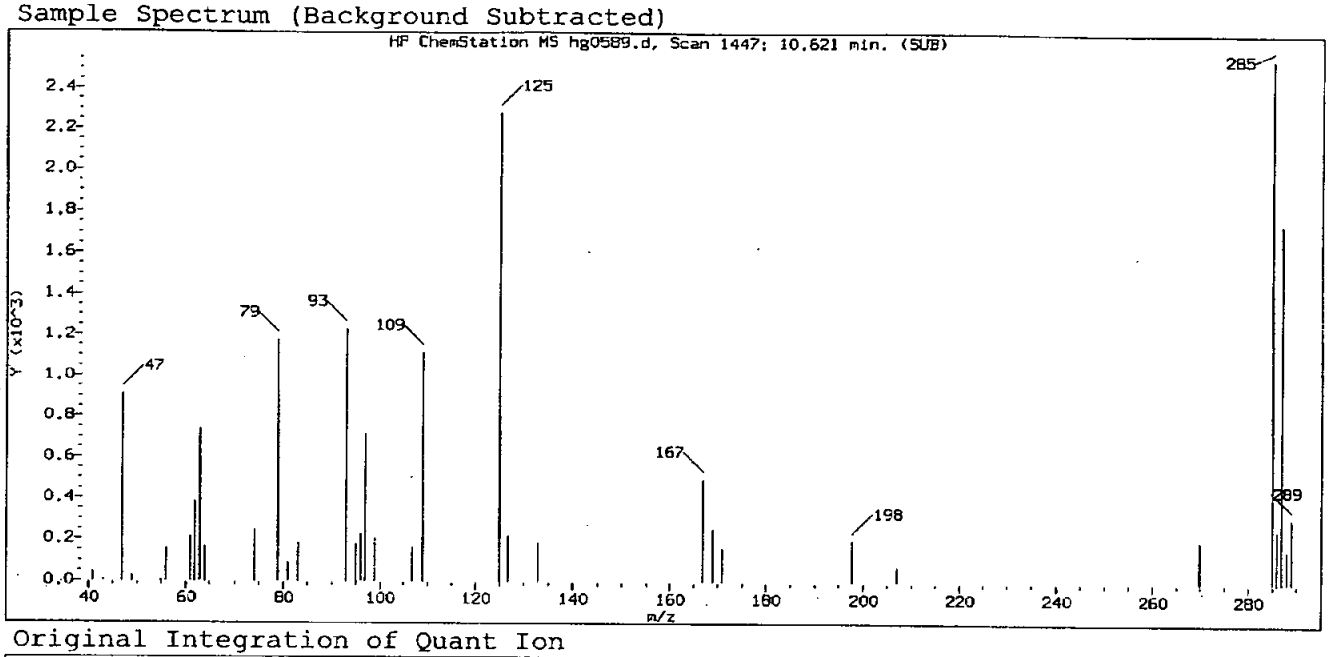
Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03 Target 3.5 esignature user ID: bkg00522

GC/MS audit/management approval: JUL 18 2012

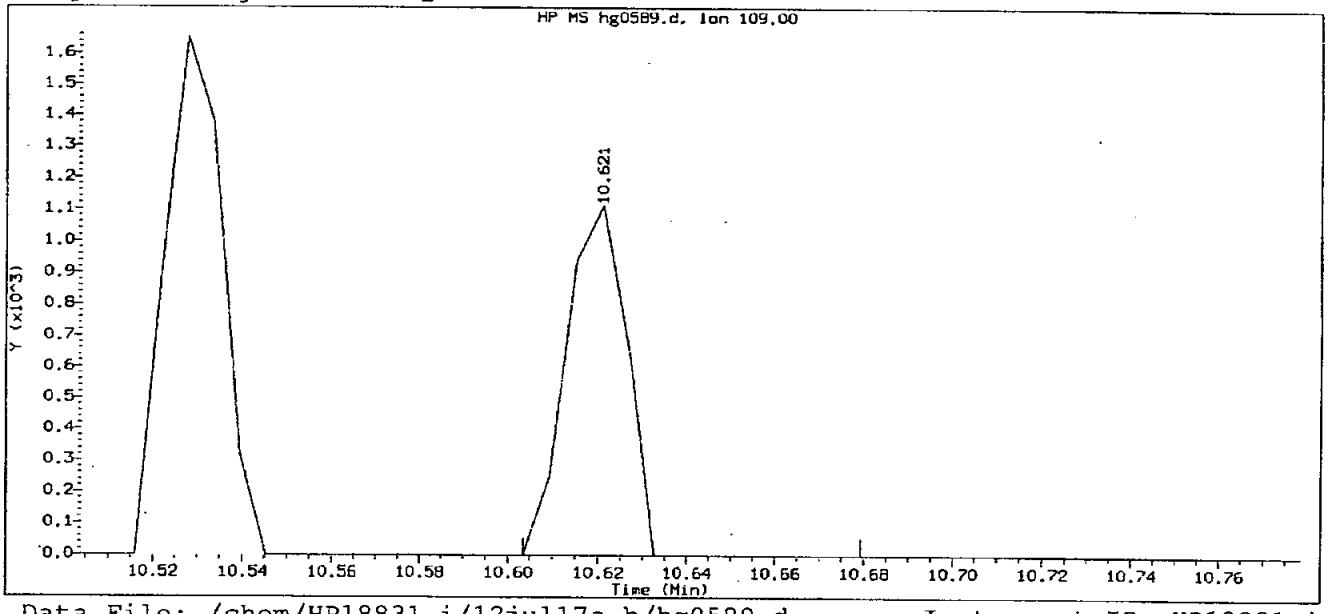
Matthew E. Barton
Senior Specialist

ASX73 9809

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

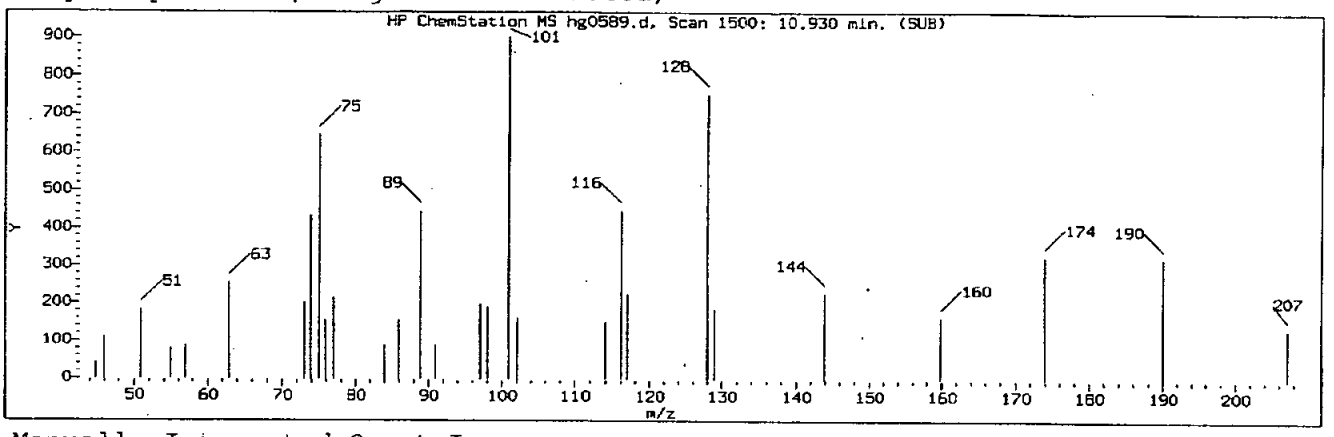
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlalll
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

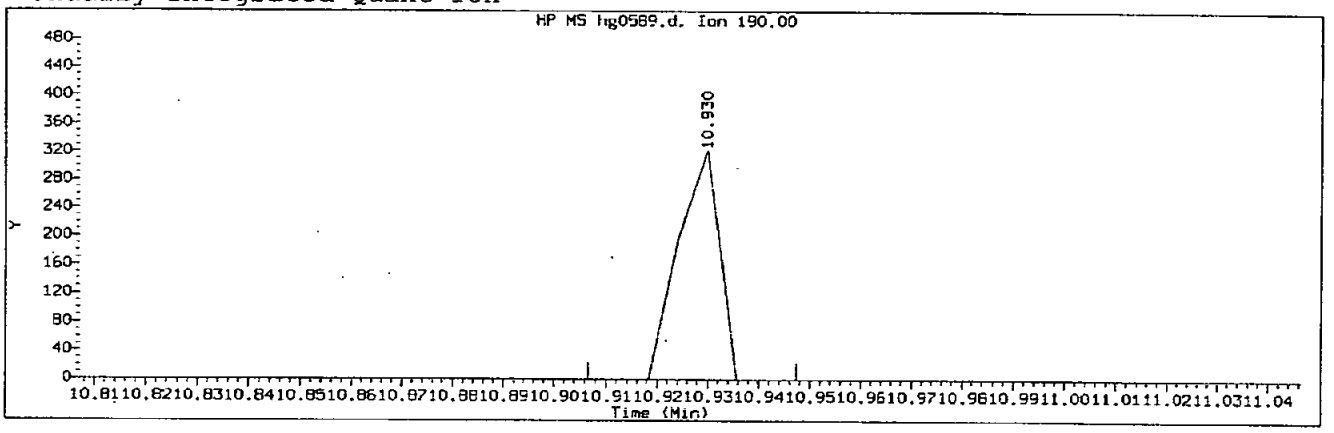
Compound Number	: 143	
Compound Name	: Parathion	
Scan Number	: 1447	
Retention Time (minutes)	: 10.621	
Quant Ion	: 109.00	
Area	: 1033	
On-column Amount (ng/ul)	: 0.2393	
Integration start scan	: 1443	Integration stop scan: 1456
Y at integration start	: 0	Y at integration end: 0

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	:	144
Compound Name	:	4-Nitroquinoline-1-oxide
Scan Number	:	1500
Retention Time (minutes)	:	10.930
Quant Ion	:	190.00
Area (flag)	:	181M
On-Column Amount (ng/ul)	:	1.1786
Integration start scan	:	1495 Integration stop scan: 1502
Y at integration start	:	0 Y at integration end: 0

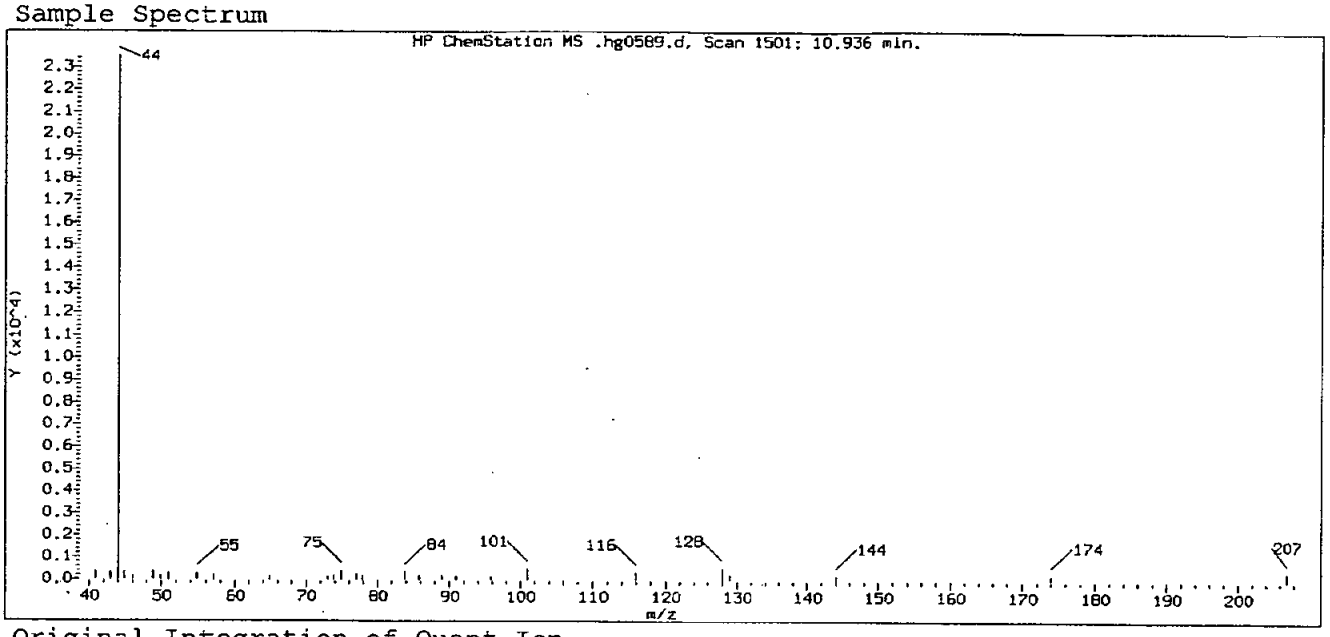
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03 Target 3.5 esignature user ID: bkg00522

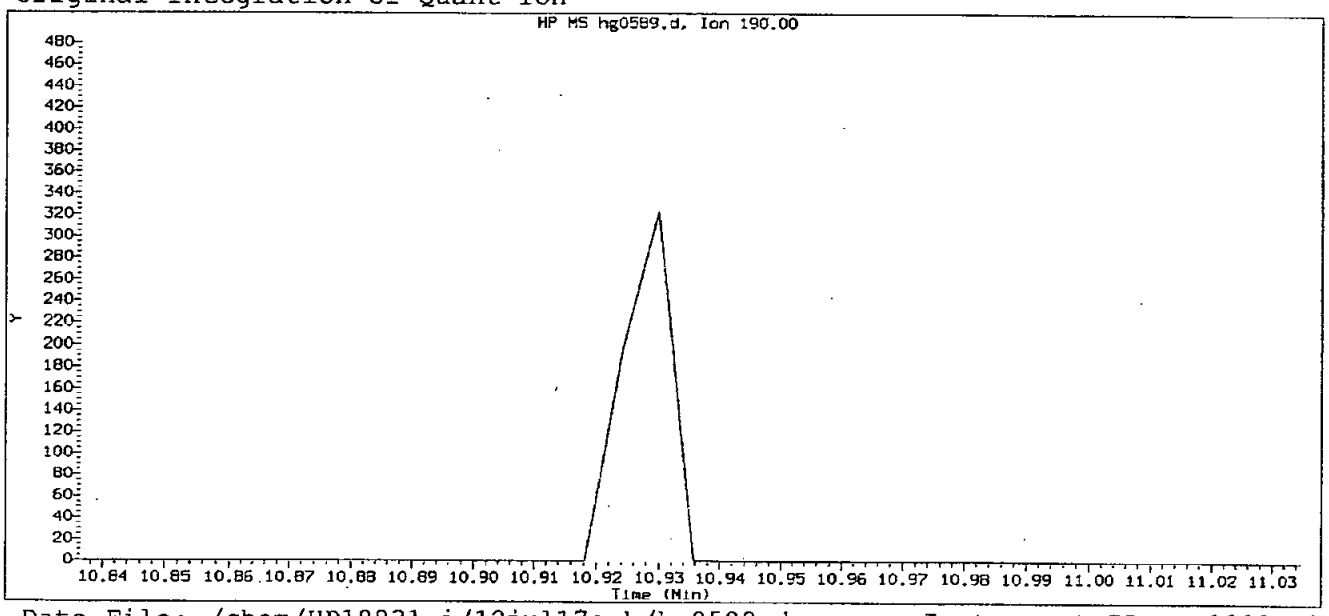
GC/MS audit/management approval: JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

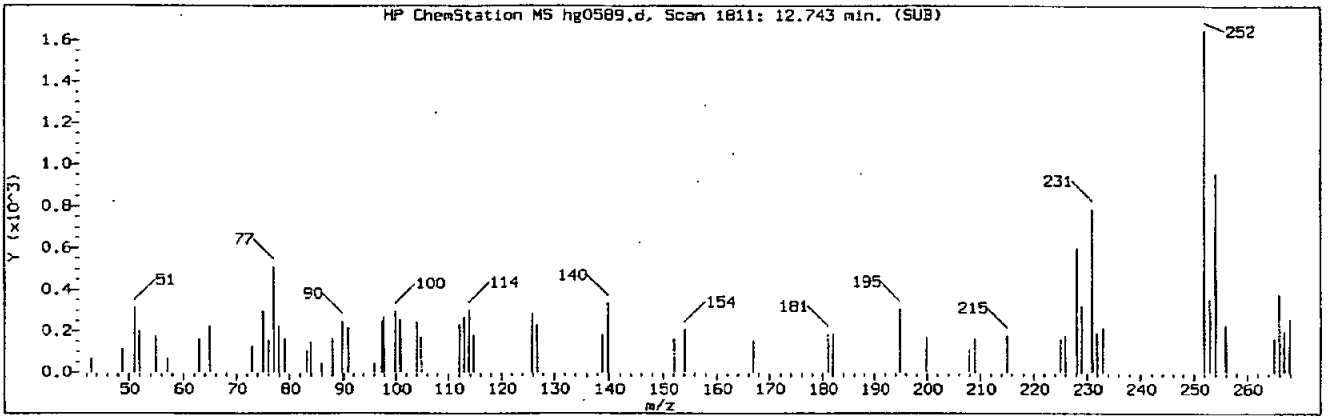
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

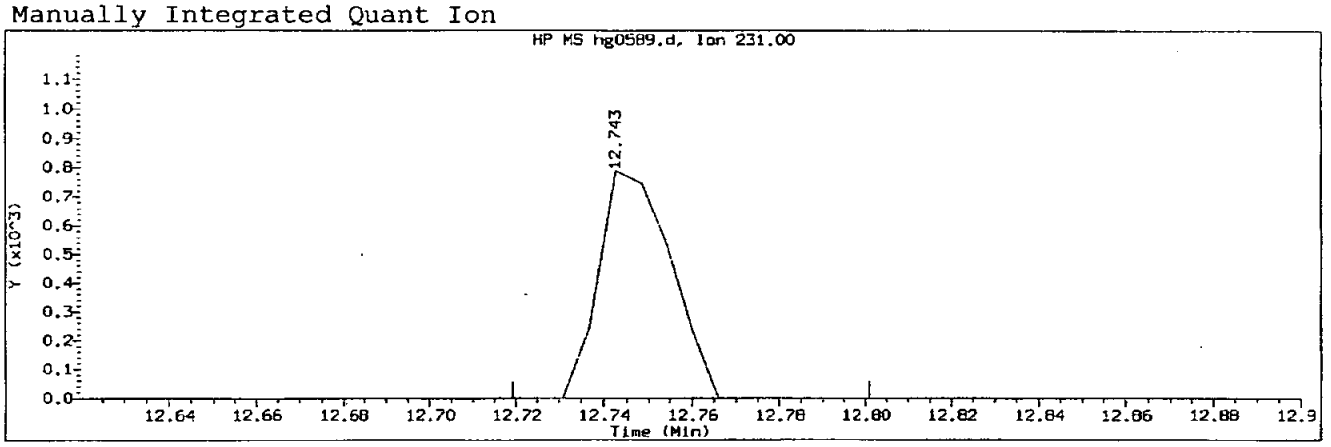
Compound Number : 144
Compound Name : 4-Nitroquinoline-1-oxide
Expected RT (minutes) : 10.935
Quant Ion : 190.00

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03.
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	:	165
Compound Name	:	4,4'-Methylenebis(2-Chloroanil
Scan Number	:	1811
Retention Time (minutes)	:	12.743
Quant Ion	:	231.00
Area (flag)	:	887M
On-Column Amount (ng/ul)	:	0.2280
Integration start scan	:	1806 Integration stop scan: 1820
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration: missed peak

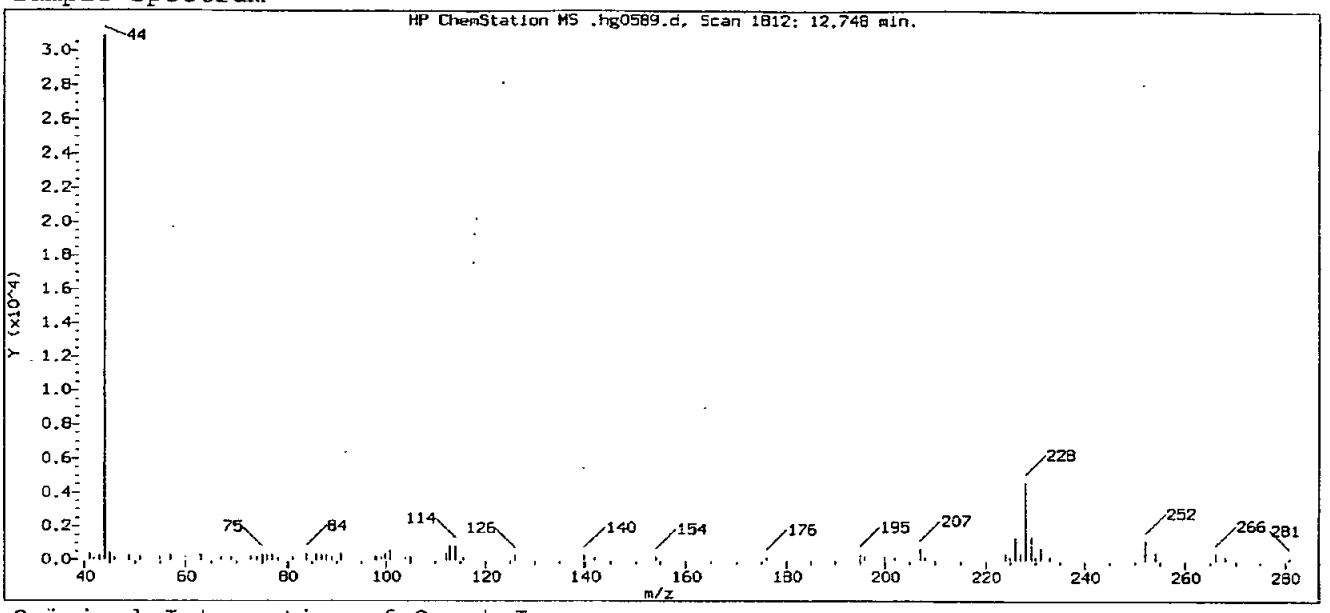
Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03. Target 3.5 esignature user ID: bkg00522

GC/MS audit/management approval: _____

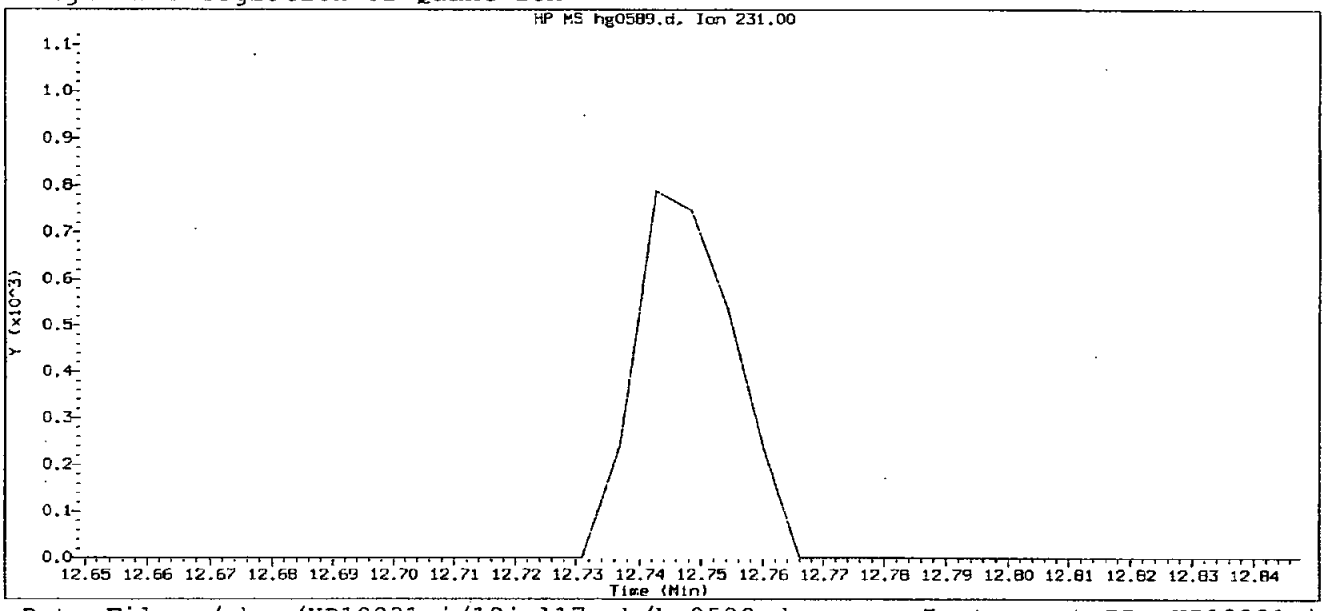
JUL 18 2012

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

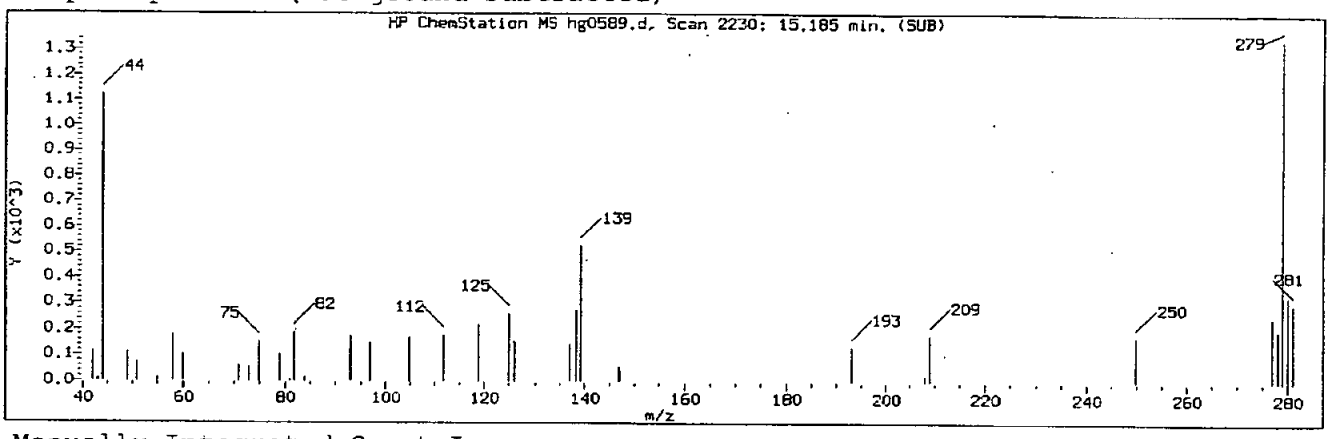
Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

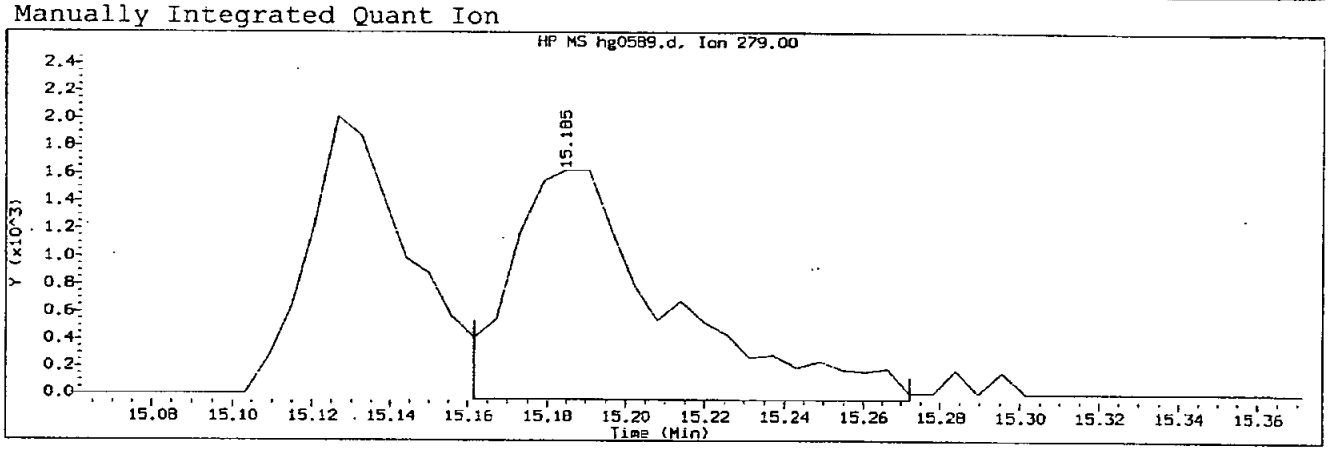
Compound Number : 165
Compound Name : 4,4'-Methylenebis(2-Chloroanil
Expected RT (minutes) : 12.748
Quant Ion : 231.00

Digitally signed by Brian K. Graham on 07/18/2012 at 04:03
Target 3.5 esignature user ID: bkg00522

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	:	191
Compound Name	:	Dibenz(a,j)acridine
Scan Number	:	2230
Retention Time (minutes)	:	15.185
Quant Ion	:	279.00
Area (flag)	:	4708M
On-Column Amount (ng/ul)	:	0.3789
Integration start scan	:	2225 Integration stop scan: 2244
Y at integration start	:	-43 Y at integration end: -43

Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:03. Target 3.5 esignature user ID: bkg00522

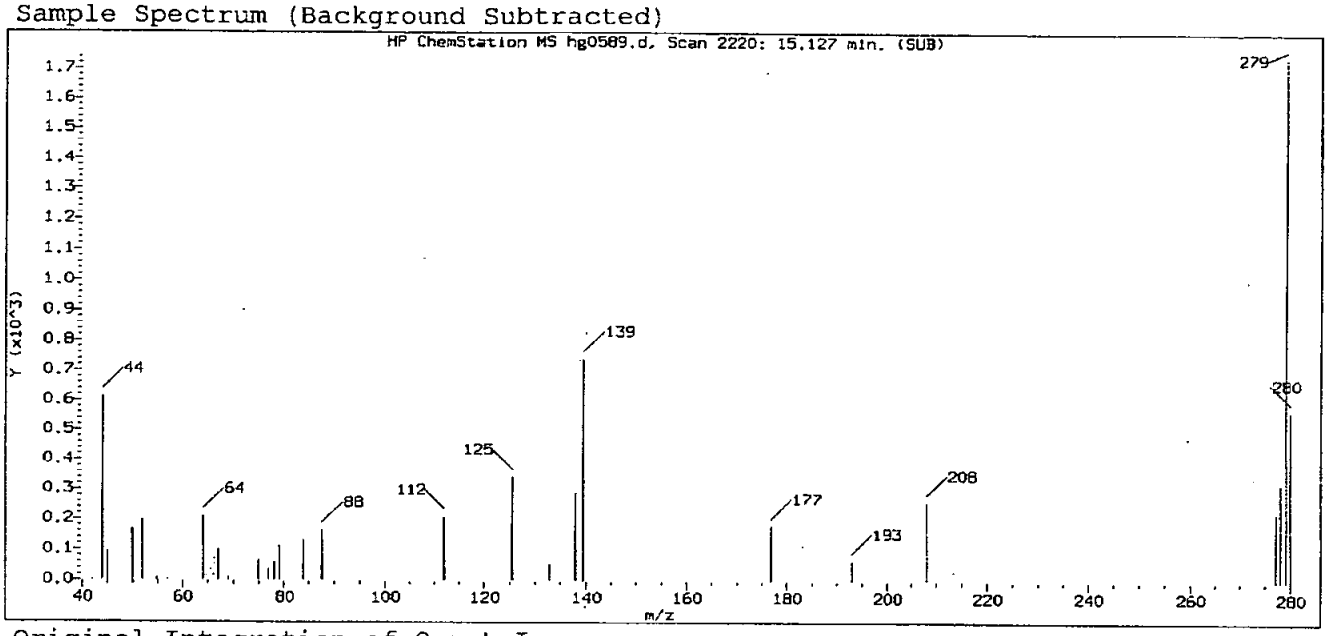
GC/MS audit/management approval: _____

JUL 18 2012

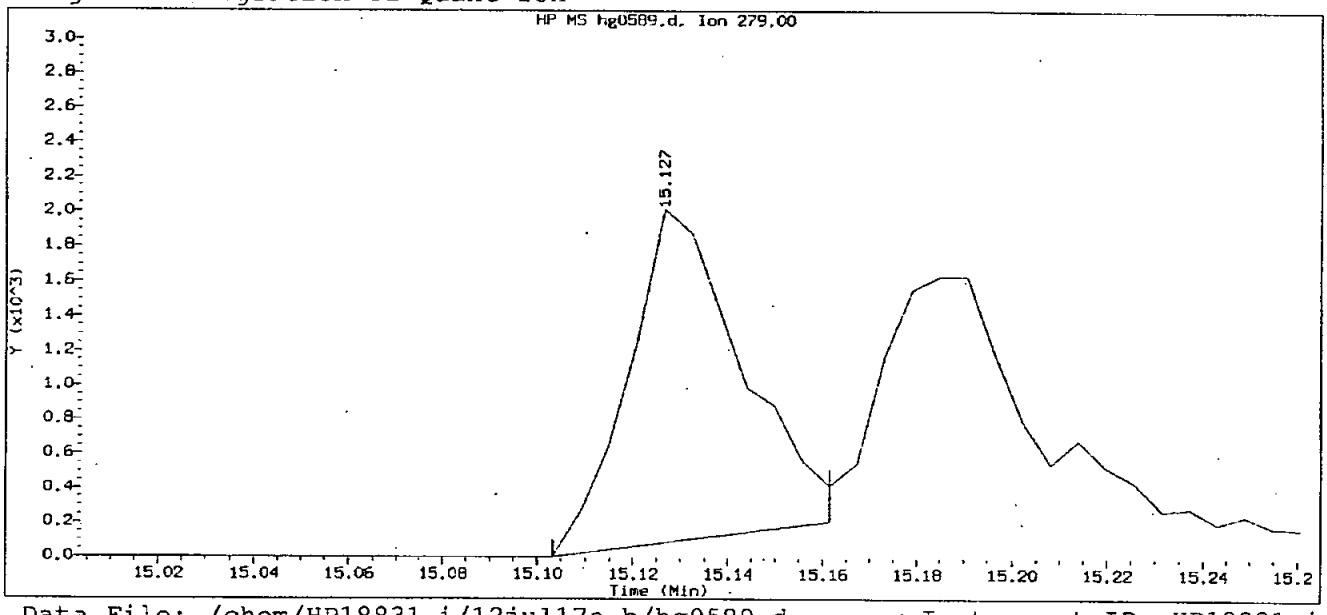
Matthew E. Barton
Senior Specialist

ASX73 0815

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0589.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 21:55 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.5mdlall1
Calibration date and time: 17-JUL-2012 22:05
Date, time and analyst ID of latest file update: 17-Jul-2012 22:12 Automation

Sample Name: SSTD0.5 Lab Sample ID: MDLSTD1982

Compound Number	:	191
Compound Name	:	Dibenz(a,j)acridine
Scan Number	:	2220
Retention Time (minutes)	:	15.127
Quant Ion	:	279.00
Area	:	3177
On-column Amount (ng/ul)	:	0.2557
Integration start scan	:	2215 Integration stop scan: 2225
Y at integration start	:	0 Y at integration end: 206

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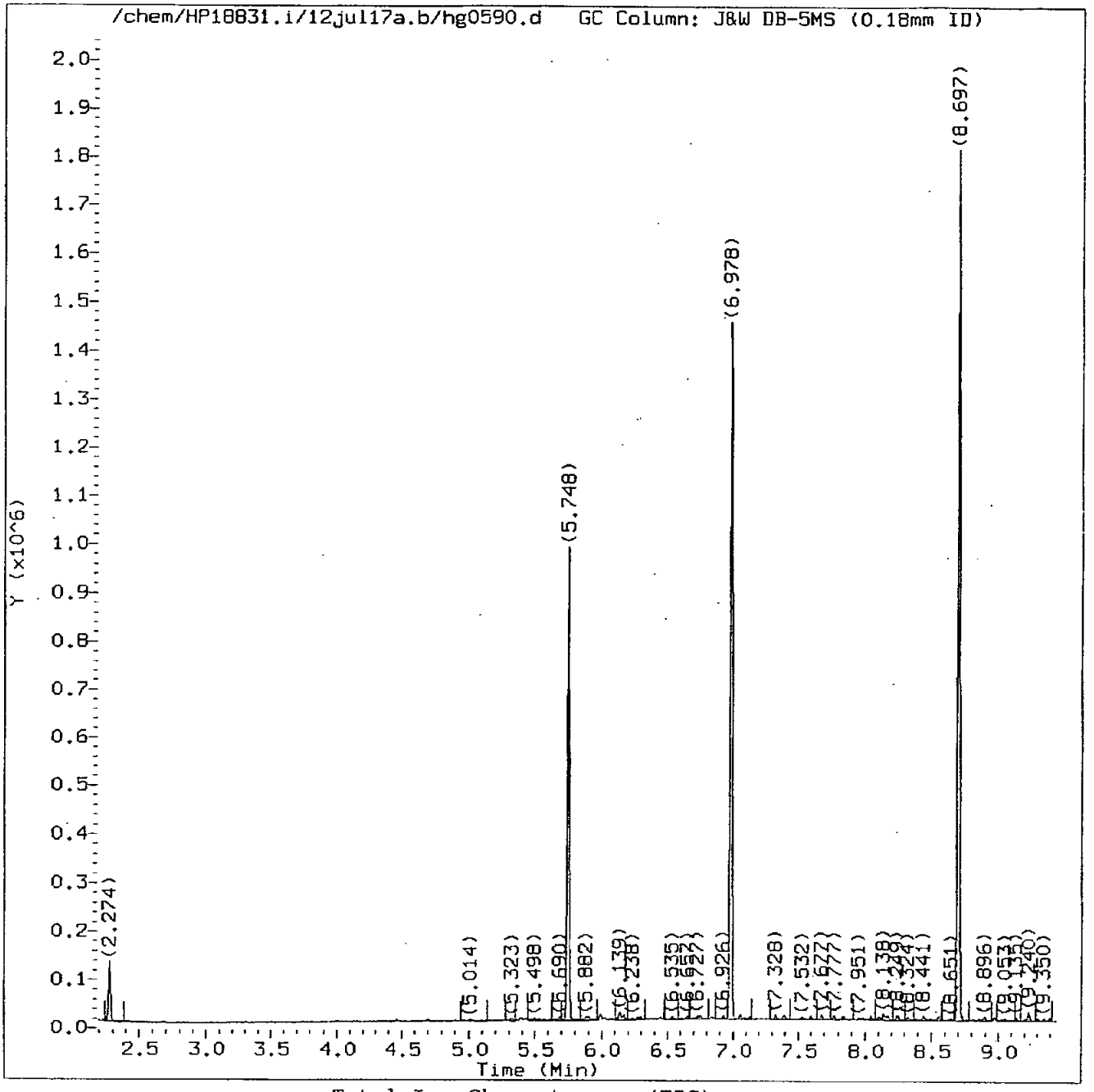
Target 3.5 esignature user ID: bkg00522



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0590.d
Injection date and time: 17-JUL-2012 22:18

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:15

Sublist used: 0.1mdlall1

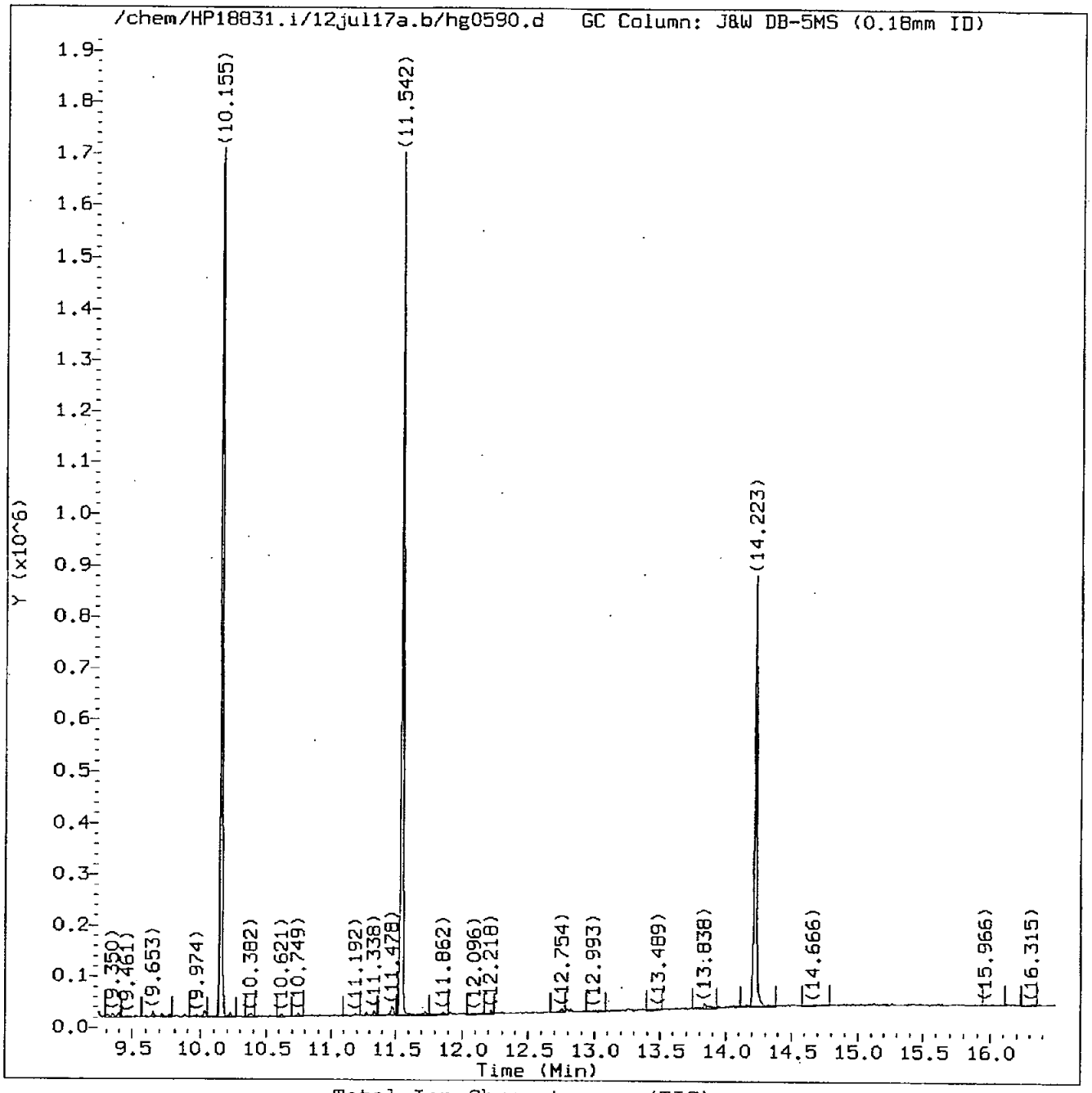
Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.1

Lab Sample ID: MDLSTD1982

Digitally signed by Brian K. Graham
on 07/18/2012 at 04:04
Target 3.5 esignature user ID: bkg00522

ASX73 0817



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0590.d
Injection date and time: 17-JUL-2012 22:18

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:15

Sublist used: 0.1mdlall1

Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.1

Lab Sample ID: MDLSTD1982

Digitally signed by Brian K. Graham
on 07/18/2012 at 04:04
Target 3.5 esignature user ID: bkg00522

ASX73 0818

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0590.d
Injection date and time: 17-JUL-2012 22:18

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:15

Sublist used: 0.1mdlall1

Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.1

Lab Sample ID: MDLSTD1982

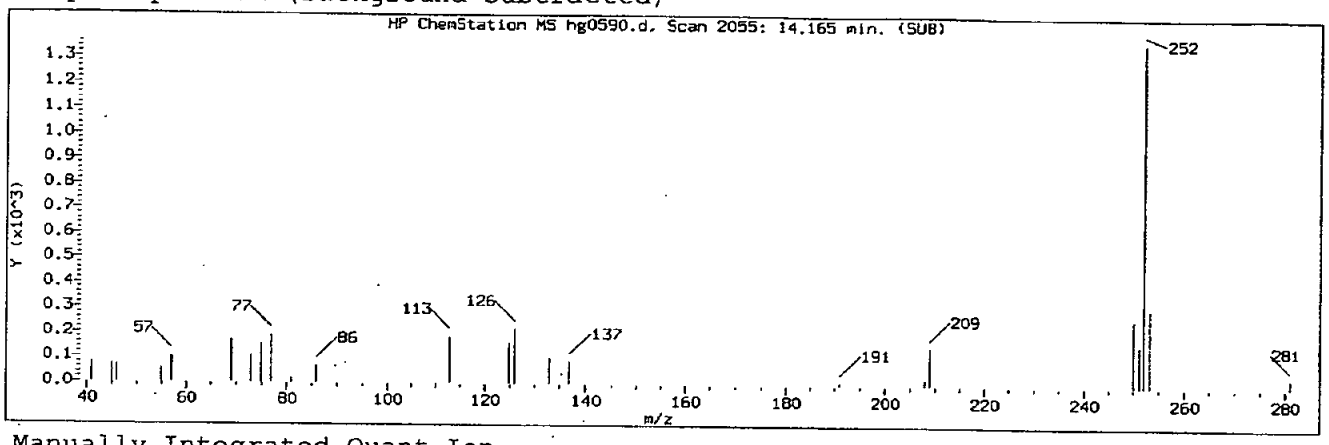
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.460	112	873	0.073
14)$Phenol-d5	(1)	5.387	99	1501	0.088
15)$Phenol-d6	(1)	5.387	99	1501	0.088
21)*1,4-Dichlorobenzene-d4	(1)	5.748	152	142365	20.000
38)$Nitrobenzene-d5	(2)	6.279	82	1584	0.097
52)*Naphthalene-d8	(2)	6.978	136	595530	20.000
53) Naphthalene	(2)	7.001	128	3907	0.115
70) 2-Methylnaphthalene	(2)	7.677	142	2108	0.102
71) 1-Methylnaphthalene	(2)	7.777	142	2060	0.102
78)$2-Fluorobiphenyl	(3)	8.045	172	2297	0.096
95) Acenaphthylene	(3)	8.558	152	3083	0.098
98)*Acenaphthene-d10	(3)	8.697	164	357991	20.000
99) Acenaphthene	(3)	8.727	153	2240	0.104
111) Fluorene	(3)	9.234	166	2441	0.100
127) Hexachlorobenzene	(4)	9.770	284	579	0.095
135)*Phenanthrene-d10	(4)	10.155	188	618720	20.000
137) Phenanthrene	(4)	10.172	178	4259	0.119
138) Anthracene	(4)	10.225	178	3381	0.096
147) Fluoranthene	(4)	11.338	202	3723	0.105
167)*Pyrene-d10	(5)	11.542	212	661122	20.000
154) Pyrene	(5)	11.559	202	5060	0.133
156)$Terphenyl-d14	(5)	11.723	244	2209	0.100
166) Benzo(a)anthracene	(5)	12.754	228	2427	0.087
168) Chrysene	(5)	12.789	228	2951	0.105
172) Benzo(b)fluoranthene	(6)	13.838	252	2017	0.086
173) Benzo(k)fluoranthene	(6)	13.867	252	2069	0.089
174) Benzo(a)pyrene	(6)	14.165	252	1661M	0.079
175)*Perylene-d12	(6)	14.223	264	369502	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	15.406	276	1386	0.068
178) Dibenz(a,h)anthracene	(6)	15.430	278	979	0.059
179) Benzo(g,h,i)perylene	(6)	15.738	276	1228	0.072

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

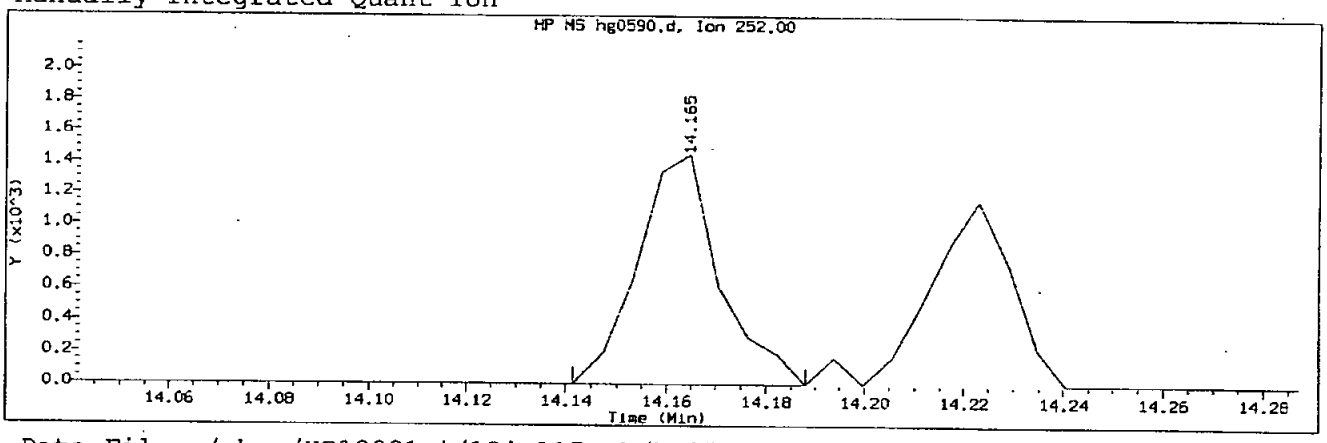
Digitally signed by Brian K. Graham
on 07/18/2012 at 04:04
Target 3.5 esignature user ID: bkg00522

ASX73 0019

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0590.d
Injection date and time: 17-JUL-2012 22:18

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:15

Sublist used: 0.1mdlall1

Date, time and analyst ID of latest file update: 18-Jul-2012 03:59 bkg00522

Sample Name: SSTD0.1

Lab Sample ID: MDLSTD1982

Compound Number	:	174
Compound Name	:	Benzo(a)pyrene
Scan Number	:	2055
Retention Time (minutes)	:	14.165
Quant Ion	:	252.00
Area (flag)	:	1661M
On-Column Amount (ng/ul)	:	0.0792
Integration start scan	:	2050
Y at integration start	:	0

Integration stop scan: 2058
Y at integration end: 0

Reason for manual integration: improper integration

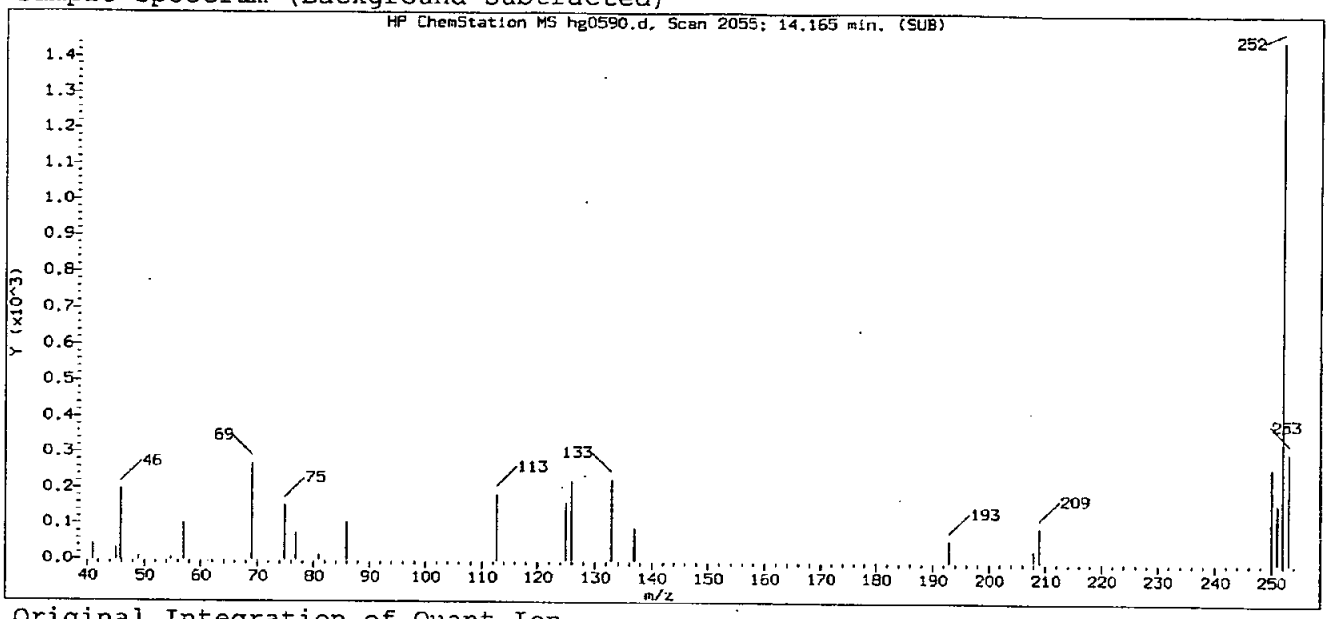
Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:04 Target 3.5 esignature user ID: bkg00522

GC/MS audit/management approval: JUL 18 2012

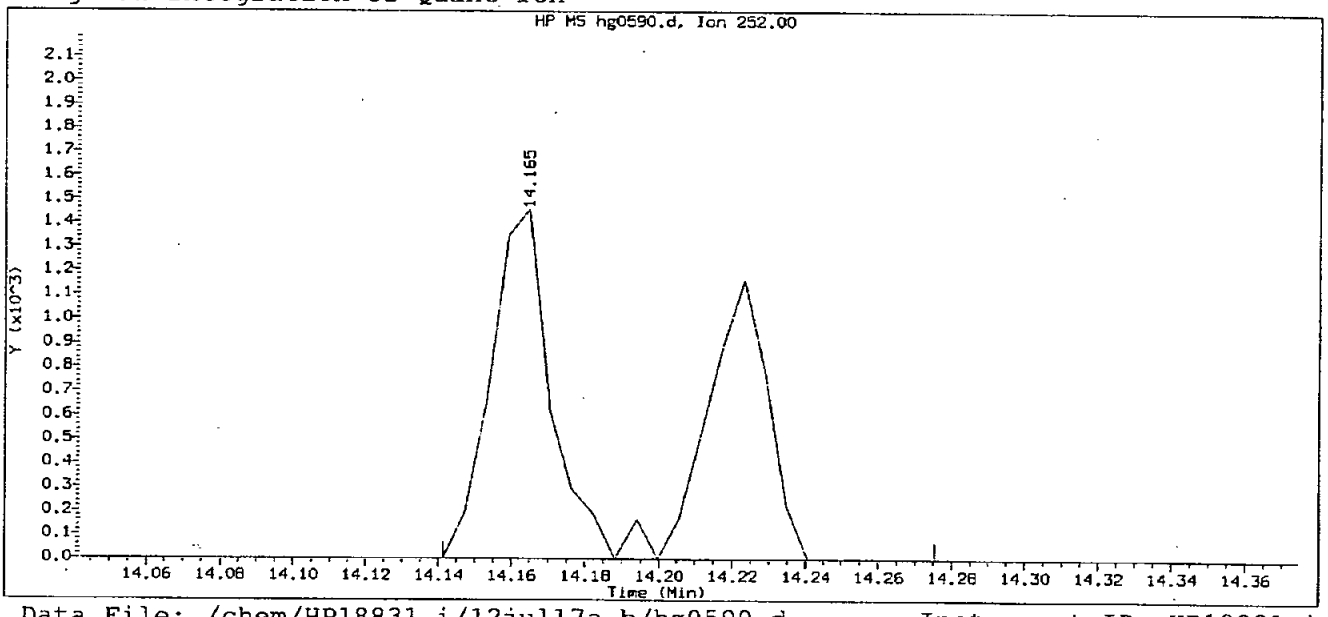
Matthew E. Barton
Senior Specialist

ASX73 0828

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



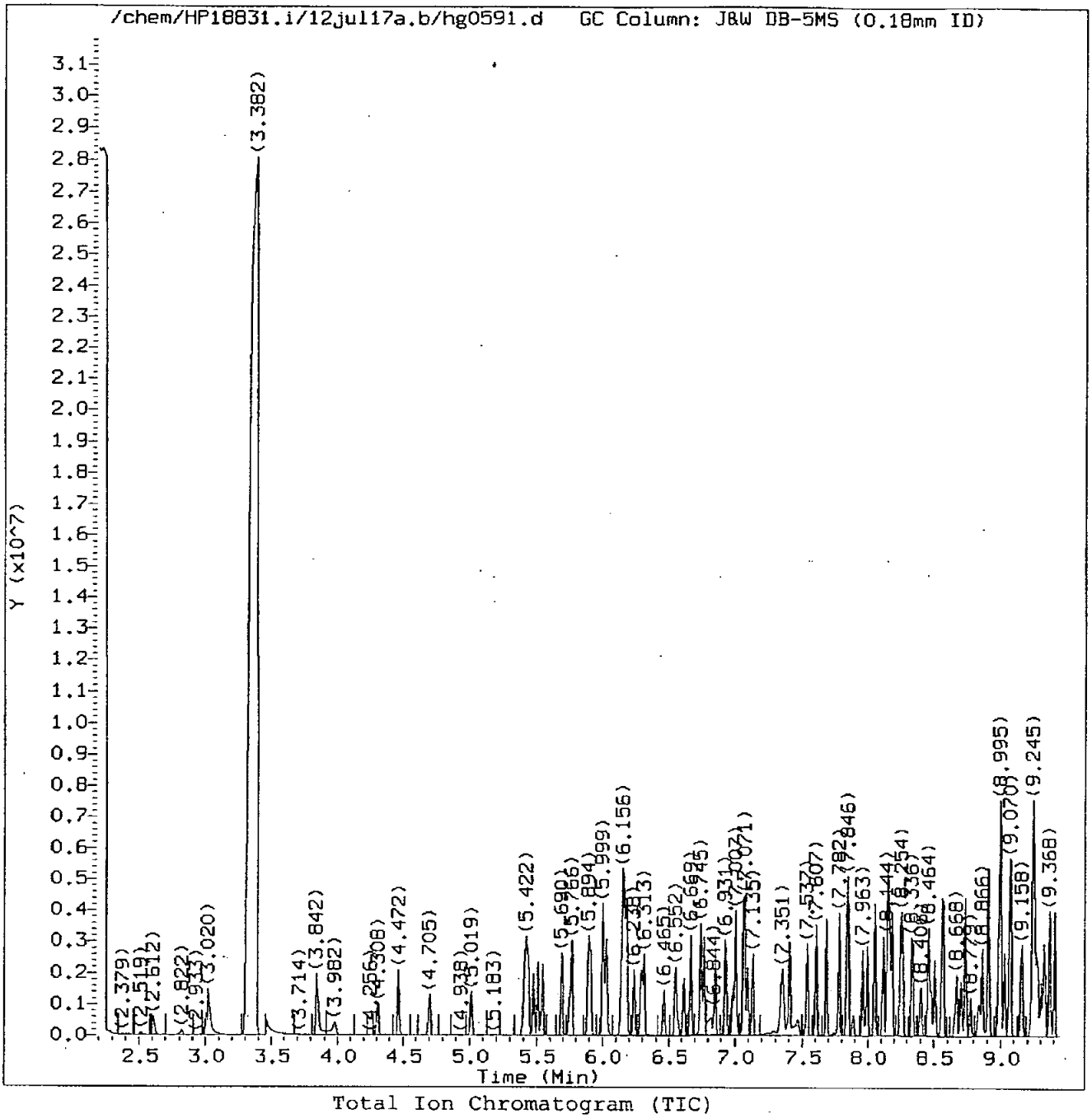
Data File: /chem/HP18831.i/12jul17a.b/hg0590.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 22:18 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: 0.1mdlall1
Calibration date and time: 17-JUL-2012 22:15
Date, time and analyst ID of latest file update: 17-Jul-2012 22:35 Automation

Sample Name: SSTD0.1 Lab Sample ID: MDLSTD1982

Compound Number	: 174	
Compound Name	: Benzo(a)pyrene	
Scan Number	: 2055	
Retention Time (minutes)	: 14.165	
Quant Ion	: 252.00	
Area	: 3020	
On-column Amount (ng/ul)	: 0.1441	
Integration start scan	: 2050	Integration stop scan: 2073
Y at integration start	: 0	Y at integration end: 0

Digitally signed by Brian K. Graham on 07/18/2012 at 04:04.
Target 3.5 esignature user ID: bkg00522



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0591.d
Injection date and time: 17-JUL-2012 22:40

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:54

Sublist used: icvall1

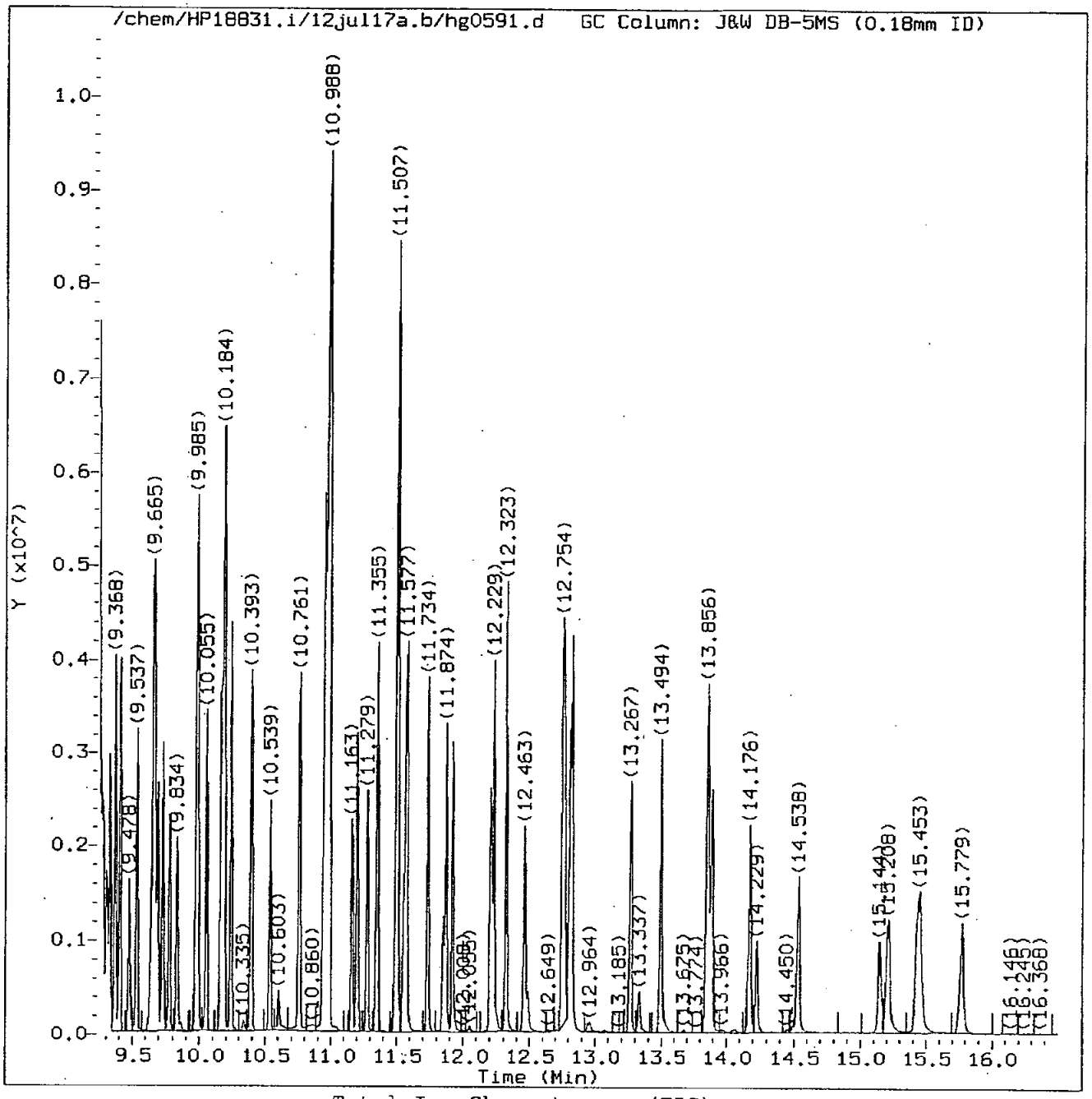
Date, time and analyst ID of latest file update: 18-Jul-2012 04:00 bkg00522

Sample Name: SSTD050

Lab Sample ID: 8270ICV1092

Digitally signed by Brian K. Graham
on 07/18/2012 at 04:04.
Target 3.5 esignature user ID: bkg00522

ASX73 0822



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0591.d
Injection date and time: 17-JUL-2012 22:40

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:54

Sublist used: icvall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:00 bkg00522

Sample Name: SSTD050

Lab Sample ID: 8270ICV1092

Digitally signed by Brian K. Graham
on 07/18/2012 at 04:04.
Target 3.5 esignature user ID: bkg00522

ASX73 0823

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0591.d
Injection date and time: 17-JUL-2012 22:40

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:54

Sublist used: icvall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:00 bkg00522

Sample Name: SSTD050

Lab Sample ID: 8270ICV1092

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.612	88	293385	46.870
2) N-Nitrosodimethylamine	(1)	3.009	74	500150	48.542
3) Pyridine	(1)	3.020	79	793941	46.214
5) 2-Picoline	(1)	3.842	93	796302	44.922
6) N-Nitrosomethylethylamine	(1)	3.982	88	373469	45.931
7) Methyl methanesulfonate	(1)	4.308	80	426157	45.940
9) 2-Fluorophenol	(1)	4.472	112	642443	47.413
10) N-Nitrosodiethylamine	(1)	4.705	102	370705	47.799
11) Ethyl methanesulfonate	(1)	5.019	109	344472	46.547
15) Phenol-d6	(1)	5.404	99	938233	48.890
14) Phenol-d5	(1)	5.404	99	938233	48.890
16) Phenol	(1)	5.422	94	1077440	47.482
13) Aniline	(1)	5.433	93	1203092	46.129
18) bis(2-Chloroethyl)ether	(1)	5.509	93	785316	46.502
19) 2-Chlorophenol	(1)	5.544	128	600788	47.804
20) 1,3-Dichlorobenzene	(1)	5.696	146	601880	47.475
21)*1,4-Dichlorobenzene-d4	(1)	5.748	152	160808	20.000
22) 1,4-Dichlorobenzene	(1)	5.766	146	614597	47.480
24) Benzyl alcohol	(1)	5.894	108	515556	47.295
25) 1,2-Dichlorobenzene	(1)	5.911	146	581212	48.242
206) Indene	(1)	5.999	115	940248	41.209
26) 2-Methylphenol	(1)	6.004	108	694395M	47.915
28) bis(2-Chloroisopropyl)ether	(1)	6.028	45	875562	44.274
27) 2,2'-oxybis(1-Chloropropane)	(1)	6.028	45	875562	44.274
29) N-Nitrosopyrrolidine	(1)	6.144	100	380505	48.316
30) Acetophenone	(1)	6.150	105	989326	44.805
33) 4-Methylphenol	(1)	6.162	108	770550	49.084
31) N-Nitroso-di-n-propylamine	(1)	6.174	70	619247	46.439
32) N-Nitrosomorpholine	(1)	6.179	56	420624	44.733
34) o-Toluidine	(1)	6.185	106	1074798	46.097
37) Hexachloroethane	(1)	6.238	117	260495	45.510
38) Nitrobenzene-d5	(2)	6.296	82	895162	47.678
39) Nitrobenzene	(2)	6.313	77	887091	45.386
40) N-Nitrosopiperidine	(2)	6.465	114	342759	46.197
41) Isophorone	(2)	6.552	82	1655130	45.098
42) 2-Nitrophenol	(2)	6.617	139	327299	47.399
44) 2,4-Dimethylphenol	(2)	6.669	107	746352	45.971
45) O,O,O-triethylphosphorothioate	(2)	6.745	198	295939	46.216
46) bis(2-Chloroethoxy)methane	(2)	6.768	93	906833	41.043
47) Benzoic acid	(2)	6.826	105	622233	49.710

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Brian K. Graham
on 07/18/2012 at 04:04.
Target 3.5 esignature user ID: bkg00522

ASX73 0824

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0591.d
Injection date and time: 17-JUL-2012 22:40

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:54

Sublist used: icvall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:00 bkg00522

Sample Name: SSTD050

Lab Sample ID: 8270ICV1092

	Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
49)	2,4-Dichlorophenol	(2)	6.855	162	476534	45.765
50)	1,2,4-Trichlorobenzene	(2)	6.931	180	531270	46.165
52)	*Naphthalene-d8	(2)	6.984	136	682043	20.000
53)	Naphthalene	(2)	7.007	128	1684739	43.355
56)	4-Chloroaniline	(2)	7.065	127	737359	46.711
57)	2,6-Dichlorophenol	(2)	7.071	162	453447	45.290
58)	Hexachloropropene	(2)	7.094	213	319488	47.251
60)	Hexachlorobutadiene	(2)	7.135	225	269410	45.237
194)	Quinoline	(2)	7.351	129	1169932	46.133
64)	N-Nitrosodi-n-butylamine	(2)	7.403	84	577824	43.719
68)	4-Chloro-3-methylphenol	(2)	7.537	107	661105	46.330
69)	Safrole	(2)	7.607	162	454760	45.788
70)	2-Methylnaphthalene	(2)	7.689	142	1120629	47.223
71)	1-Methylnaphthalene	(2)	7.782	142	1044083	44.976
72)	Hexachlorocyclopentadiene	(3)	7.840	237	471827	99.167
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.852	216	482753	46.897
74)	cis-Isosafrole	(3)	7.887	162	84816	5.248
75)	2,4,6-Trichlorophenol	(3)	7.963	196	357306	49.790
77)	2,4,5-Trichlorophenol	(3)	7.992	196	378109	47.681
78)	2-Fluorobiphenyl	(3)	8.050	172	1266661	49.180
80)	Isosafrole	(3)	8.114	162	475023	47.613
79)	trans-Isosafrole	(3)	8.114	162	475023	42.375
83)	1,1'-Biphenyl	(3)	8.149	154	1375779	44.909
84)	2-Chloronaphthalene	(3)	8.167	162	954899	42.900
85)	1-Chloronaphthalene	(3)	8.184	162	1080976	48.883
88)	Diphenyl ether	(3)	8.254	170	784878	48.129
89)	2-Nitroaniline	(3)	8.266	138	373176	48.545
90)	1,4-Naphthoquinone	(3)	8.342	158	546524	58.154
91)	1,4-Dinitrobenzene	(3)	8.406	168	210967	50.284
92)	Dimethylphthalate	(3)	8.464	163	1195361	45.838
93)	1,3-Dinitrobenzene	(3)	8.482	168	245176	49.745
94)	2,6-Dinitrotoluene	(3)	8.511	165	282539	47.913
95)	Acenaphthylene	(3)	8.569	152	1596158	47.242
97)	3-Nitroaniline	(3)	8.674	138	332791	49.399
98)	*Acenaphthene-d10	(3)	8.703	164	386061	20.000
99)	Acenaphthene	(3)	8.738	153	1038314	44.880
100)	2,4-Dinitrophenol	(3)	8.779	184	178036	49.552
103)	4-Nitrophenol	(3)	8.837	109	230798	49.513
101)	Pentachlorobenzene	(3)	8.866	250	391556	47.273
104)	Dibenzofuran	(3)	8.907	168	1500617	45.727

* = Compound is an internal standard.

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on 07/18/2012 at 04:04.
Target 3.5 esignature user ID: bkg00522

ASX73 9825

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0591.d
Injection date and time: 17-JUL-2012 22:40

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:54

Sublist used: icval11

Date, time and analyst ID of latest file update: 18-Jul-2012 04:00 bkg00522

Sample Name: SSTD050

Lab Sample ID: 8270ICV1092

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
105) 2,4-Dinitrotoluene	(3)	8.913	165	353169	46.511
106) 1-Naphthylamine	(3)	8.995	143	2038059	86.449
107) 2,3,4,6-Tetrachlorophenol	(3)	9.030	232	297176	52.506
108) 2-Naphthylamine	(3)	9.070	143	2081273	89.430
109) Diethylphthalate	(3)	9.158	149	1227162	45.488
110) Thionazin	(3)	9.239	107	273129	49.272
111) Fluorene	(3)	9.245	166	1154514	44.013
112) 4-Chlorophenyl-phenylether	(3)	9.251	204	553253	43.723
113) 5-Nitro-o-toluidine	(3)	9.269	152	357864	47.590
114) 4-Nitroaniline	(3)	9.280	138	317950	46.817
115) 4,6-Dinitro-2-methylphenol	(4)	9.303	198	227647	51.047
117) N-Nitrosodiphenylamine	(4)	9.368	169	1079035	49.052
202) NDPA as diphenylamine	(4)	9.368	169	1079035	48.612
118) 1,2-Diphenylhydrazine	(4)	9.408	77	1810525	47.261
119) 2,4,6-Tribromophenol	(3)	9.478	330	127111	51.516
120) Tetraethyldithiopyrophosphate	(4)	9.537	97	258611	48.148
121) 1,3,5-Trinitrobenzene	(4)	9.642	213	142970	48.705
122) Diallate (peak 1)	(4)	9.659	86	696469	39.228
123) Phorate	(4)	9.665	75	1088400	46.966
124) Phenacetin	(4)	9.694	108	762584	49.245
125) 4-Bromophenyl-phenylether	(4)	9.729	248	300000	47.852
126) Diallate (peak 2)	(4)	9.741	86	108583	9.987
127) Hexachlorobenzene	(4)	9.781	284	294575	47.934
128) Dimethoate	(4)	9.834	87	536251	42.654
131) Pentachlorophenol	(4)	9.974	266	206272	52.230
133) 4-Aminobiphenyl	(4)	9.985	169	1245824	60.208
132) Pentachloronitrobenzene	(4)	9.985	237	137304	48.699
134) Pronamide	(4)	10.055	173	544482	50.567
135)*Phenanthrene-d10	(4)	10.160	188	622186	20.000
136) Dinoseb	(4)	10.166	211	318441	47.339
137) Phenanthrene	(4)	10.189	178	1593856	44.462
138) Anthracene	(4)	10.236	178	1690305	47.718
140) Carbazole	(4)	10.393	167	1627349	48.183
141) Methyl parathion	(4)	10.539	109	420752	46.483
142) Di-n-butylphthalate	(4)	10.761	149	2055773	47.868
143) Parathion	(4)	10.947	109	295268	51.097
144) 4-Nitroquinoline-1-oxide	(4)	10.988	190	2201691	668.074
146) Isodrin	(4)	11.204	193	196425	47.581
147) Fluoranthene	(4)	11.355	202	1768057	49.725
152) Benzidine	(5)	11.507	184	4600765	205.859

* = Compound is an internal standard.

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on 07/18/2012 at 04:04
Target 3.5 esignature user ID: bkg00522

ASX73 0826

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul17a.b/hg0591.d
Injection date and time: 17-JUL-2012 22:40

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m
Calibration date and time: 17-JUL-2012 22:54

Sublist used: icvall1

Date, time and analyst ID of latest file update: 18-Jul-2012 04:00 bkg00522

Sample Name: SSTD050

Lab Sample ID: 8270ICV1092

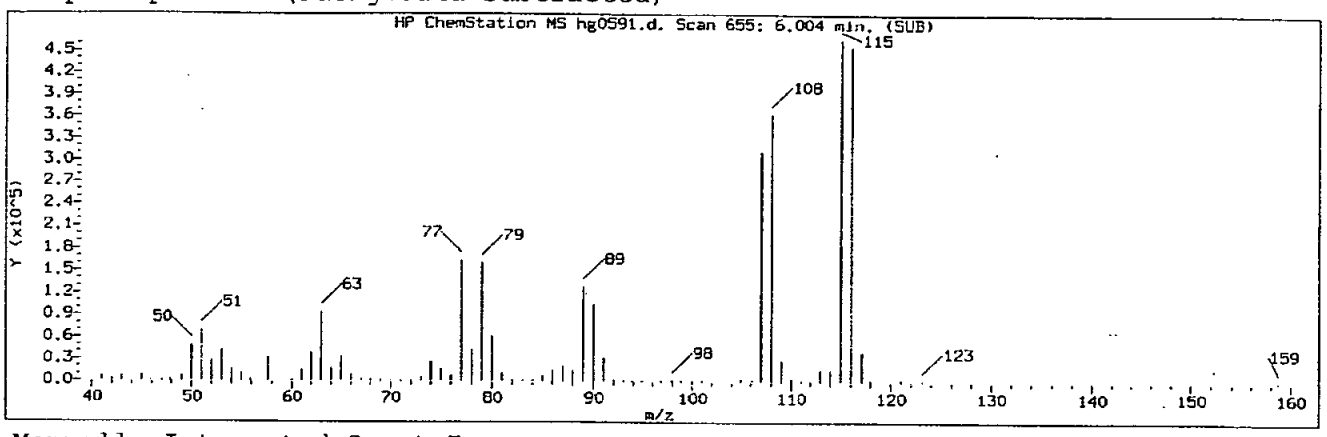
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
167)*Pyrene-d10	(5)	11.553	212	665209	20.000
154) Pyrene	(5)	11.577	202	1744839	45.703
156) Terphenyl-d14	(5)	11.734	244	1105872	49.651
158) p-Dimethylaminoazobenzene	(5)	11.874	225	339046	50.189
159) Chlorobenzilate	(5)	11.921	139	569391	52.611
160) 3,3'-Dimethylbenzidine	(5)	12.206	212	919376	46.622
161) Butylbenzylphthalate	(5)	12.229	149	777240	46.919
162) 2-Acetylaminofluorene	(5)	12.463	181	615147	51.200
164) 3,3'-Dichlorobenzidine	(5)	12.748	252	482677	48.636
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.760	231	239619	47.611
166) Benzo(a)anthracene	(5)	12.772	228	1334793	47.638
168) Chrysene	(5)	12.806	228	1290965	45.711
169) bis(2-Ethylhexyl)phthalate	(5)	12.824	149	1030057	48.652
189) 6-Methylchrysene	(5)	13.273	242	917824	48.968
170) Di-n-octylphthalate	(6)	13.494	149	1665303	47.711
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.856	256	551289	49.508
172) Benzo(b)fluoranthene	(6)	13.861	252	1086180	44.097
173) Benzo(k)fluoranthene	(6)	13.891	252	1202703	49.332
174) Benzo(a)pyrene	(6)	14.176	252	1095821	49.613
175)*Perylene-d12	(6)	14.229	264	389269	20.000
176) 3-Methylcholanthrene	(6)	14.538	268	534017	49.374
190) Dibenz(a,h)acridine	(6)	15.150	279	634642	40.686
191) Dibenz(a,j)acridine	(6)	15.214	279	885868	52.454
177) Indeno(1,2,3-cd)pyrene	(6)	15.435	276	1088463	50.982
178) Dibenz(a,h)anthracene	(6)	15.459	278	895242	51.043
179) Benzo(g,h,i)perylene	(6)	15.779	276	912849	50.637
129) Diallate TRANS/CIS	(4)	23.156	86	805052	50.209

* = Compound is an internal standard.

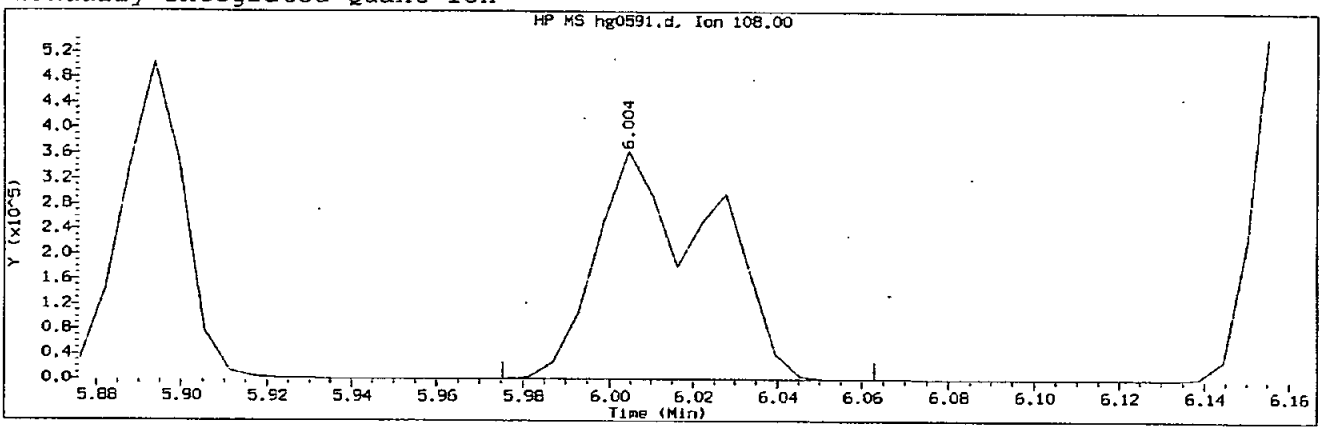
Digitally signed by Brian K. Graham
on 07/18/2012 at 04:04.
Target 3.5 esignature user ID: bkg00522

ASX73 0027

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0591.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 22:40 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: icvall1
Calibration date and time: 17-JUL-2012 22:54
Date, time and analyst ID of latest file update: 18-Jul-2012 04:00 bkg00522

Sample Name: SSTD050 Lab Sample ID: 8270ICV1092

Compound Number	: 26		
Compound Name	: 2-Methylphenol		
Scan Number	: 655		
Retention Time (minutes)	: 6.004		
Quant Ion	: 108.00		
Area (flag)	: 694395M		
On-Column Amount (ng/ul)	: 47.9154		
Integration start scan	: 649	Integration stop scan:	664
Y at integration start	: 519	Y at integration end:	625

Reason for manual integration: improper integration

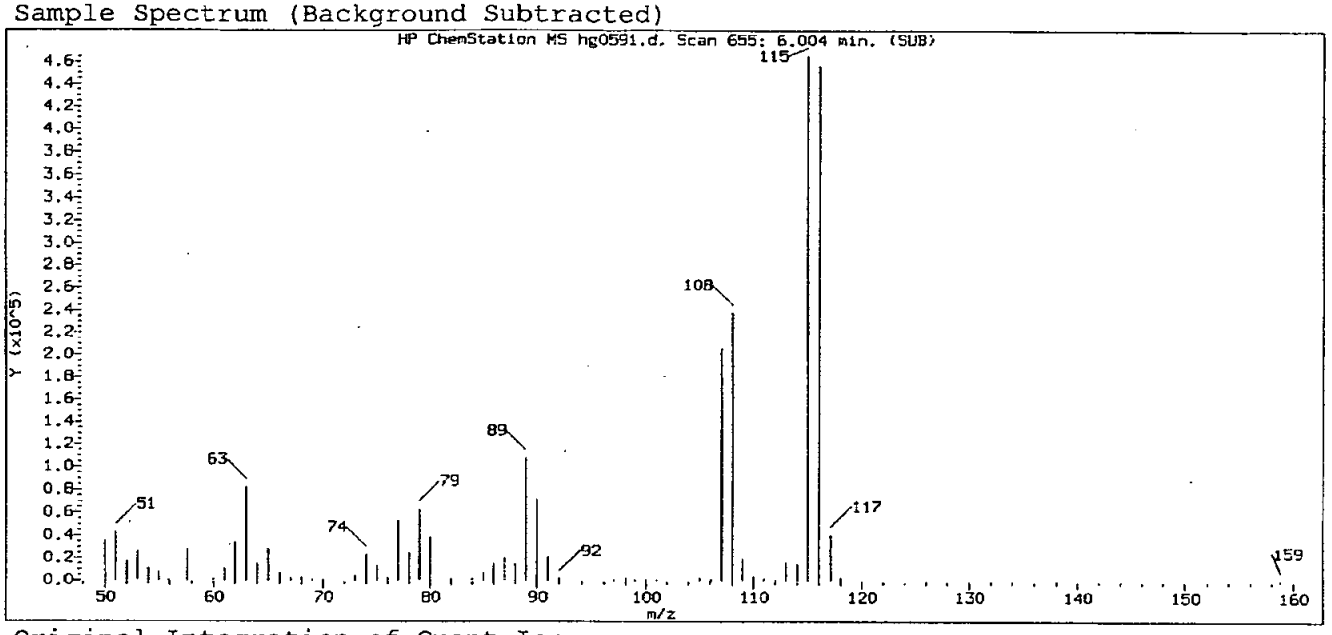
Analyst responsible for change: Digitally signed by Brian K. Graham on 07/18/2012 at 04:04 Target 3.5 esignature user ID: bkg00522

GC/MS audit/management approval: JUL 18 2012

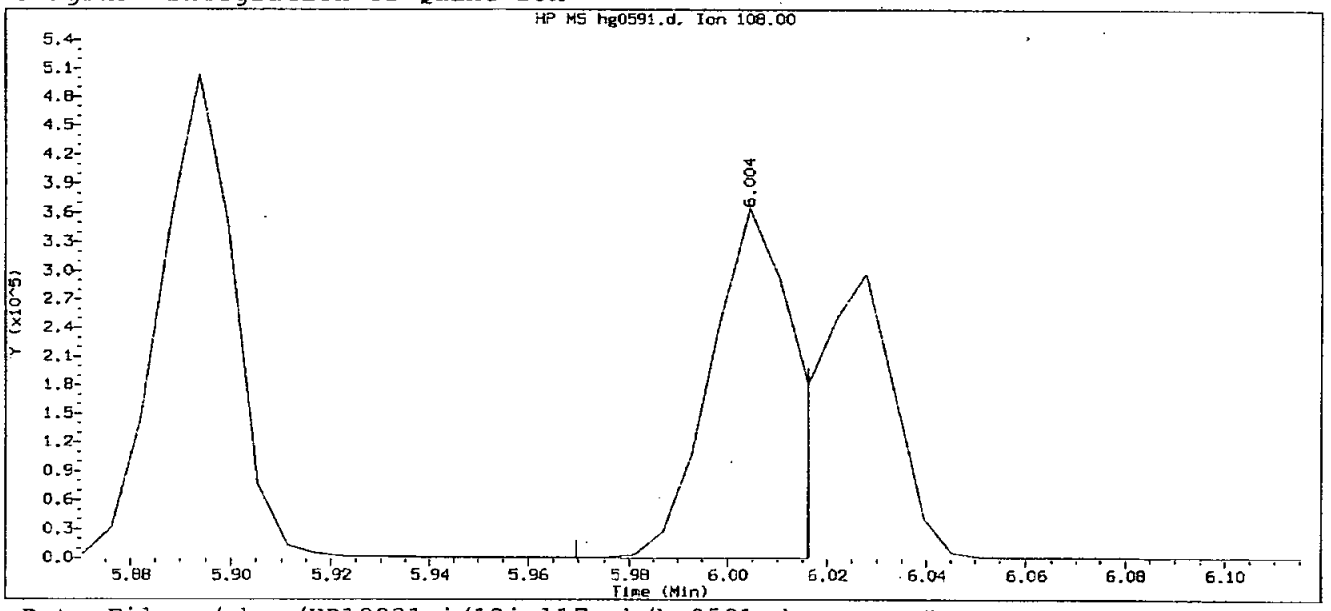
Matthew E. Barton
Senior Specialist

ASX73 0028

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul17a.b/hg0591.d Instrument ID: HP18831.i
Injection date and time: 17-JUL-2012 22:40 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul17a.b/m8270.m Sublist used: icvall1
Calibration date and time: 17-JUL-2012 22:54
Date, time and analyst ID of latest file update: 17-Jul-2012 22:58 Automation

Sample Name: SSTD050 Lab Sample ID: 8270ICV1092

Compound Number	: 26		
Compound Name	: 2-Methylphenol		
Scan Number	: 655		
Retention Time (minutes)	: 6.004		
Quant Ion	: 108.00		
Area	: 398610		
On-column Amount (ng/ul)	: 27.5052		
Integration start scan	: 648	Integration stop scan:	656
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Brian K. Graham on 07/18/2012 at 04:04.
Target 3.5 esignature user ID: bkg00522

Data File: /chem/HP18831.i/12jul18a.b/hg0740.d

Date : 18-JUL-2012 18:28

Client ID: DFTPP

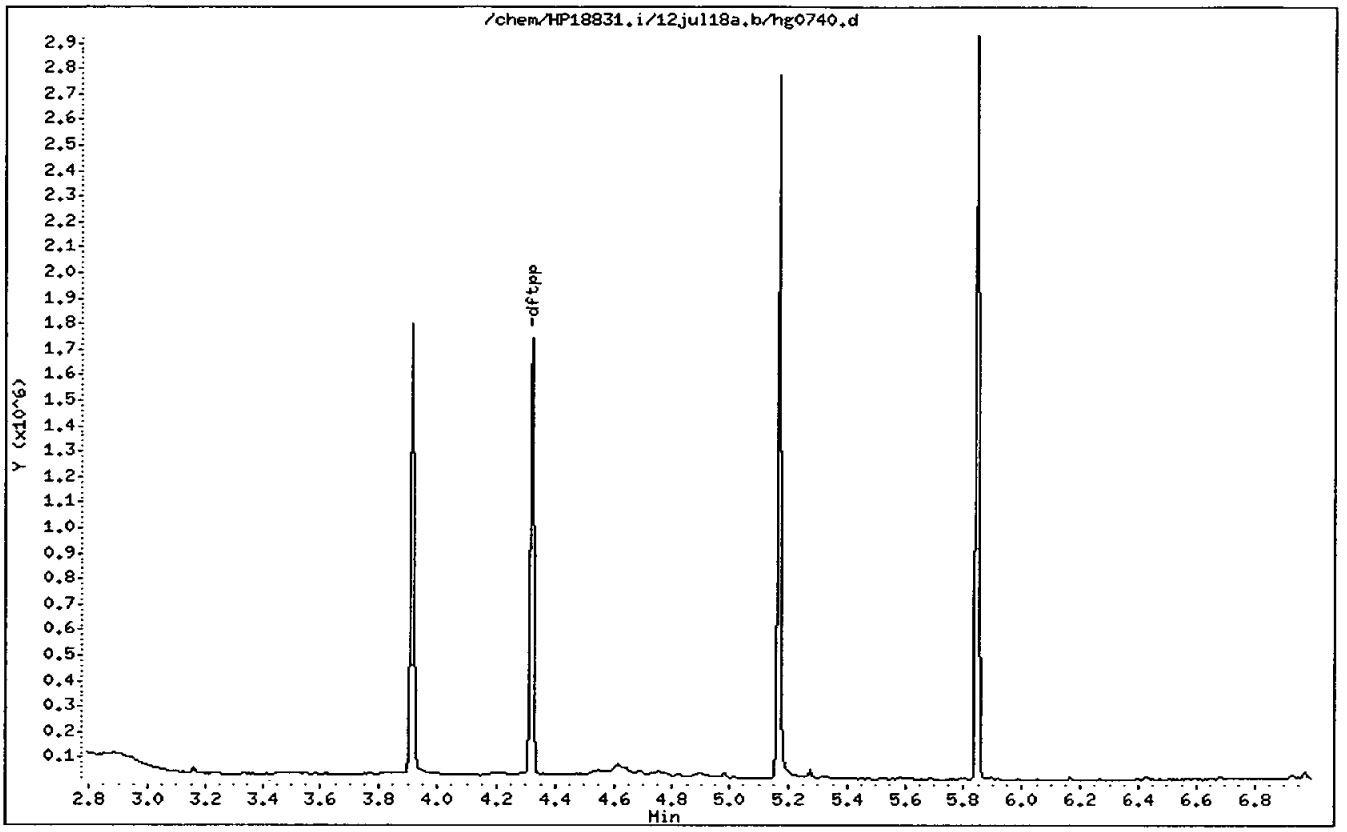
Instrument: HP18831.i

Sample Info: DFTPP;8270DFTPP1982;

Operator: hb01996

Column phase: DB-5MS

Column diameter: 0.18



Digitally signed by Holly Berry on 07/18/2012 at 19:04.
Target 3.5 esignature user ID: hb01996

Data File: /chem/HP18831.i/12jul18a.b/hg0740.d

Date : 18-JUL-2012 18:28

Client ID: DFTPP

Instrument: HP18831.i

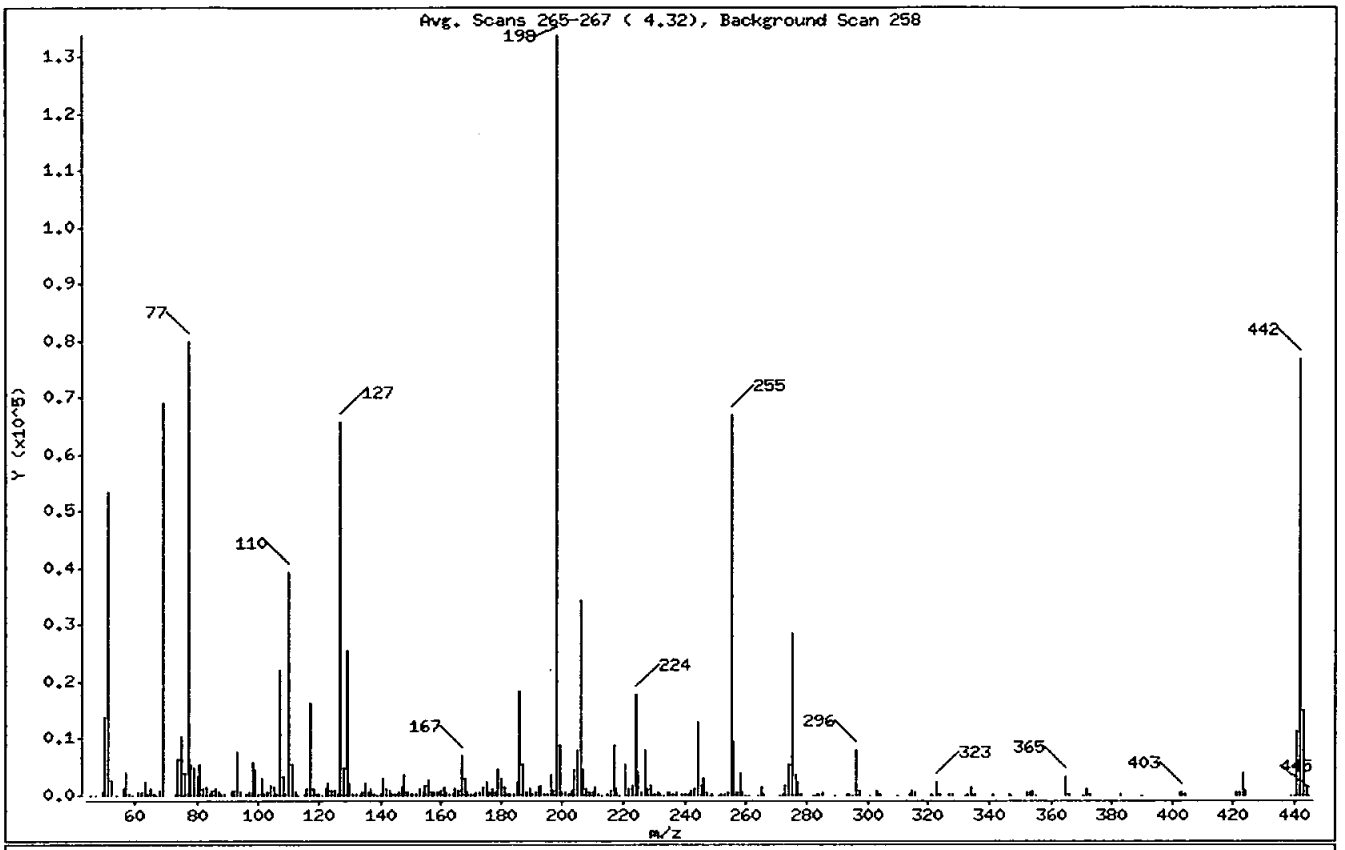
Sample Info: DFTPP;8270DFTPP1982;

Operator: hb01996

Column phase: DB-5MS

Column diameter: 0.18

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	39.91
68	Less than 2.00% of mass 69	0.63 (1.22)
69	Mass 69 relative abundance	51.77
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.26
197	Less than 1.00% of mass 198	0.62
199	5.00 - 9.00% of mass 198	6.69
275	10.00 - 30.00% of mass 198	21.42
365	Greater than 1.00% of mass 198	2.42
441	Present, but less than mass 443	8.52
442	40.00 - 99.99% of mass 198	57.47
443	17.00 - 23.00% of mass 442	11.24 (19.56)

Digitally signed by Holly Berry on 07/18/2012 at 19:04.
Target 3.5 esignature user ID: hb01996

Data File: /chem/HP18831.i/12jul18a.b/hg0740.d

Date : 18-JUL-2012 18:28

Client ID: DFTPP

Instrument: HP18831.i

Sample Info: DFTPP;8270DFTPP1982;

Operator: hb01996

Column phase: DB-5MS

Column diameter: 0.18

Data File: hg0740.d
Spectrum: Avg. Scans 265-267 (4.32), Background Scan 258
Location of Maximum: 198.00
Number of points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	78	124.00	848	192.00	1590	266.00	297
47.00	142	125.00	836	193.00	1909	271.00	143
49.00	523	126.00	270	194.00	408	272.00	162
50.00	13711	127.00	65912	195.00	272	273.00	1766
51.00	53400	128.00	4955	196.00	3697	274.00	5591
52.00	2727	129.00	25600	197.00	825	275.00	28656
54.00	130	130.00	2305	198.00	133760	276.00	3648
56.00	1267	131.00	388	199.00	8945	277.00	2381
57.00	3954	132.00	273	200.00	694	278.00	379
58.00	289	133.00	76	201.00	592	282.00	75
59.00	103	134.00	526	202.00	163	283.00	224
61.00	688	135.00	2111	203.00	871	284.00	170
62.00	738	136.00	741	204.00	4617	285.00	508
63.00	2523	137.00	1143	205.00	7956	289.00	59
64.00	367	138.00	311	206.00	34416	293.00	438
65.00	1344	139.00	65	207.00	4531	294.00	156
66.00	166	140.00	339	208.00	1198	295.00	90
67.00	110	141.00	3174	209.00	469	296.00	8094
68.00	843	142.00	1135	210.00	555	297.00	1044
69.00	69272	143.00	798	211.00	1453	301.00	114
73.00	447	144.00	178	212.00	211	303.00	830
74.00	6383	145.00	263	213.00	66	304.00	251
75.00	10566	146.00	568	215.00	353	310.00	78
76.00	3991	147.00	1597	216.00	794	314.00	325
77.00	80024	148.00	3639	217.00	9003	315.00	956
78.00	5597	149.00	743	218.00	1168	316.00	634
79.00	4891	150.00	223	219.00	55	321.00	196
80.00	3435	151.00	450	221.00	5627	322.00	59
81.00	5537	152.00	271	222.00	1280	323.00	2337
82.00	1185	153.00	1236	223.00	1878	324.00	297
83.00	1521	154.00	758	224.00	17832	327.00	424
84.00	172	155.00	1716	225.00	4435	328.00	196
85.00	910	156.00	2768	226.00	494	332.00	76
86.00	1292	157.00	478	227.00	7921	333.00	217
87.00	737	158.00	546	228.00	1096	334.00	1520

Digitally signed by Holly Berry on 07/18/2012 at 19:04.
Target 3.5 esignature user ID: hb01996

Data File: /chem/HP18831.i/12jul18a.b/hg0740.d

Date : 18-JUL-2012 18:28

Client ID: DFTPP

Instrument: HP18831.i

Sample Info: DFTPP;8270DFTPP1982;

Operator: hb01996

Column phase: DB-5MS

Column diameter: 0.18

Data File: hg0740.d
Spectrum: Avg. Scans 265-267 (4.32), Background Scan 258
Location of Maximum: 198.00
Number of points: 268

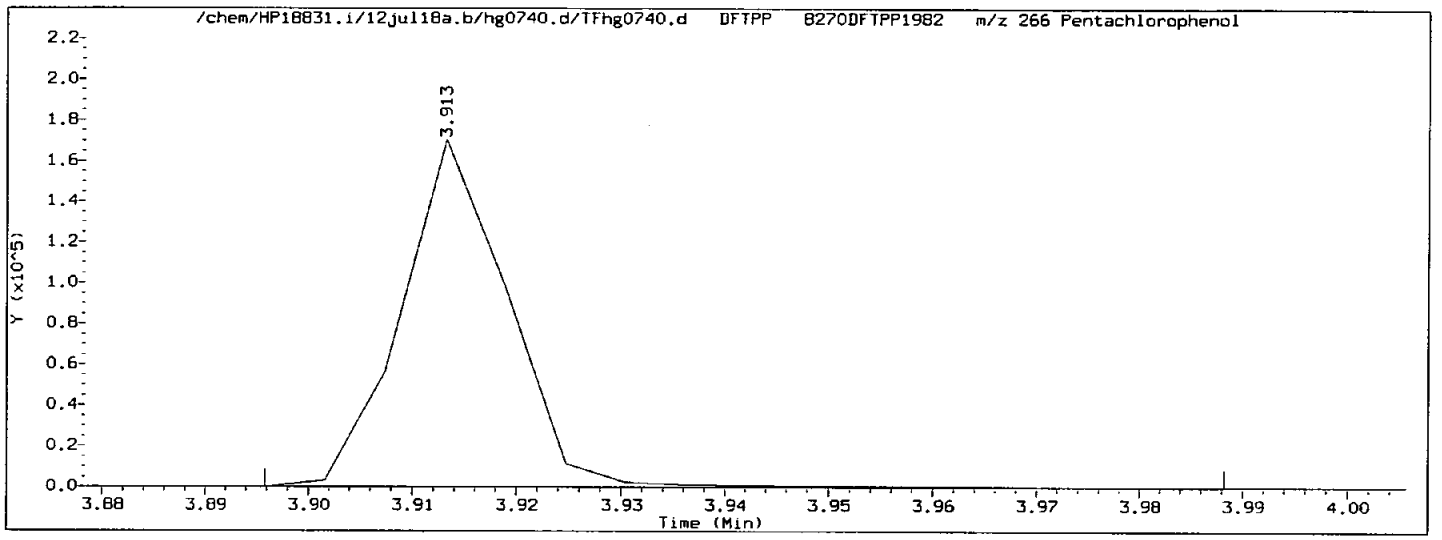
m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	303	159.00	471	229.00	1703	335.00	368
89.00	206	160.00	910	230.00	202	341.00	242
91.00	941	161.00	1656	231.00	650	346.00	419
92.00	1014	162.00	514	232.00	158	347.00	50
93.00	7631	163.00	196	233.00	70	352.00	691
94.00	628	164.00	234	234.00	479	353.00	494
96.00	372	165.00	1268	235.00	543	354.00	800
97.00	498	166.00	1050	236.00	390	355.00	127
98.00	5799	167.00	7091	237.00	575	365.00	3243
99.00	4582	168.00	3112	239.00	221	366.00	445
100.00	450	169.00	583	240.00	207	371.00	69
101.00	3051	170.00	290	241.00	407	372.00	1192
102.00	188	171.00	267	242.00	954	373.00	324
103.00	752	172.00	593	243.00	1189	383.00	282
104.00	1944	173.00	743	244.00	12998	390.00	132
105.00	1603	174.00	1457	245.00	1867	402.00	544
106.00	443	175.00	2584	246.00	2963	403.00	762
107.00	22264	176.00	614	247.00	485	404.00	206
108.00	3376	177.00	1246	248.00	141	421.00	564
109.00	439	178.00	548	249.00	387	422.00	538
110.00	39288	179.00	4717	251.00	78	423.00	3980
111.00	5434	180.00	3212	252.00	164	424.00	771
112.00	665	181.00	1589	253.00	356	439.00	62
113.00	137	182.00	245	254.00	684	440.00	69
115.00	237	183.00	194	255.00	66992	441.00	11404
116.00	1134	184.00	442	256.00	9473	442.00	76896
117.00	16175	185.00	2564	257.00	719	443.00	15042
118.00	1110	186.00	18456	258.00	4114	444.00	1527
119.00	184	187.00	5523	259.00	587	445.00	51
120.00	183	188.00	592	260.00	142		
121.00	2	189.00	1175	261.00	64		
122.00	1136	190.00	208	264.00	121		
123.00	2018	191.00	641	265.00	1605		

Digitally signed by Holly Berry on 07/18/2012 at 19:04;
Target 3.5 esignature user ID: hb01996

ASX73 9833

Assessment of GC Column Performance and Injection Port Inertness for

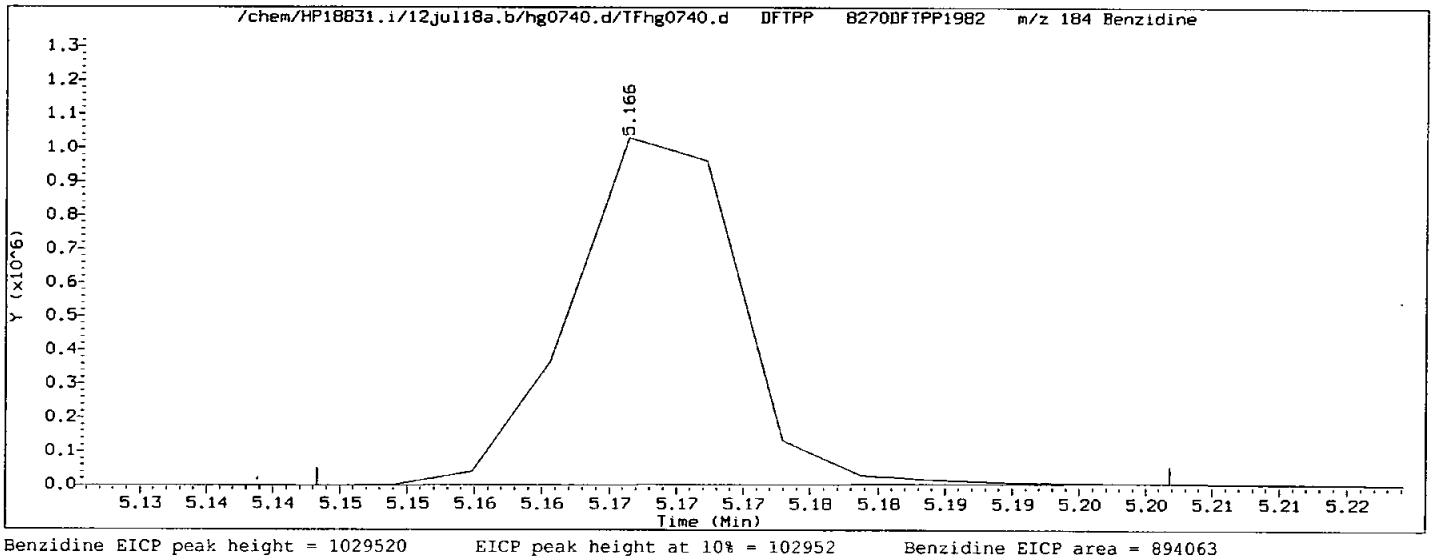
Instrument ID: HP18831.i Injection Date: 18-JUL-2012 18:28 Operator: hb01996



Pentachlorophenol EICP peak height = 170496 EICP peak height at 10% = 17050 Pentachlorophenol EICP area = 120337

Pentachlorophenol EICP peak apex (min.) = 3.913
RT at 10% of front half of EICP (min.) = 3.903 'Front' peak width (min.) = 0.0100333333
RT at 10% of back half of EICP (min.) = 3.924 'Tailing' peak width (min.) = 0.0111666667

$$\text{PCP tailing factor} = \frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0111666667}{0.0100333333} = 1.113$$



Benzidine EICP peak height = 1029520 EICP peak height at 10% = 102952 Benzidine EICP area = 894063

Benzidine EICP peak apex (min.) = 5.166
RT at 10% of front half of EICP (min.) = 5.156 'Front' peak width (min.) = 0.0104166667
RT at 10% of back half of EICP (min.) = 5.180 'Tailing' peak width (min.) = 0.0132166667

$$\text{Benzidine tailing factor} = \frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0132166667}{0.0104166667} = 1.269$$

printed on 07/18/2012 at 18:36

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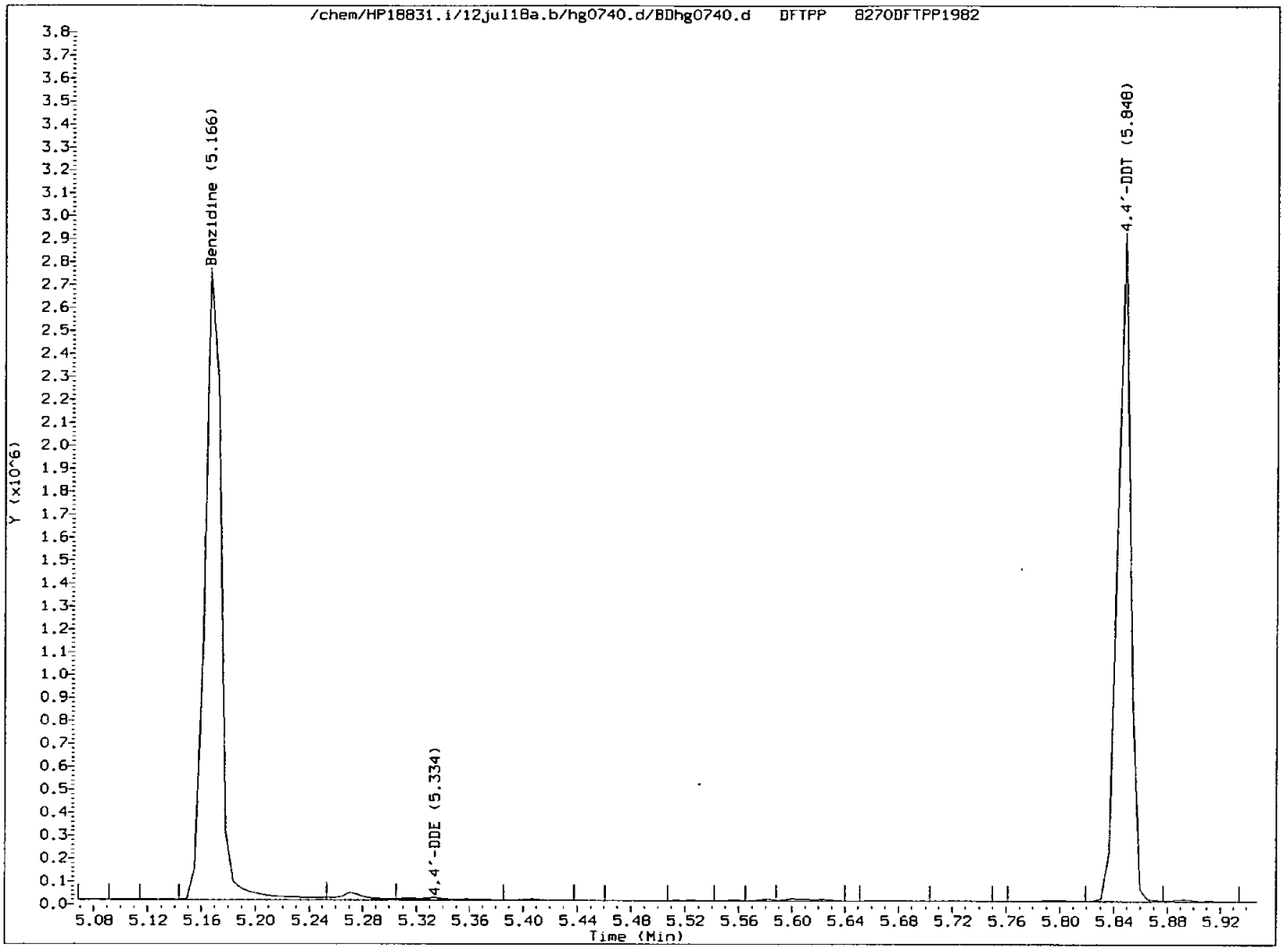
Target 3.5 esignature user ID: hb01996

ASX73 0834

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP18831.i Injection Date: 18-JUL-2012 18:28 Operator: hb01996



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{24494 + 0}{24494 + 0 + 1976655} \times 100 = 1.2$$

printed on 07/18/2012 at 18:40

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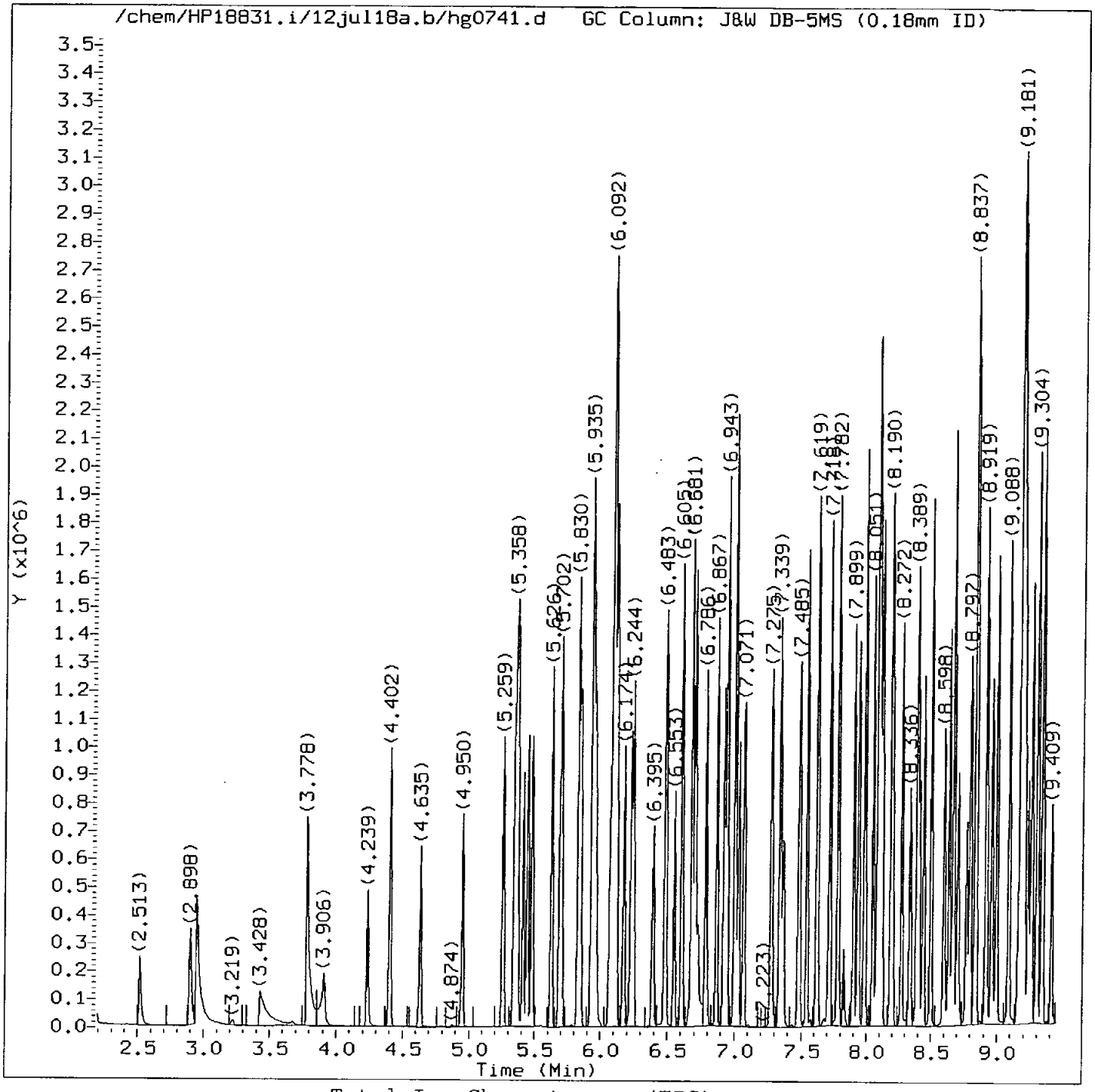
Target 3.5 esignature user ID: hb01996

ASX73 0035



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0741.d
Injection date and time: 18-JUL-2012 18:41

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 19:03

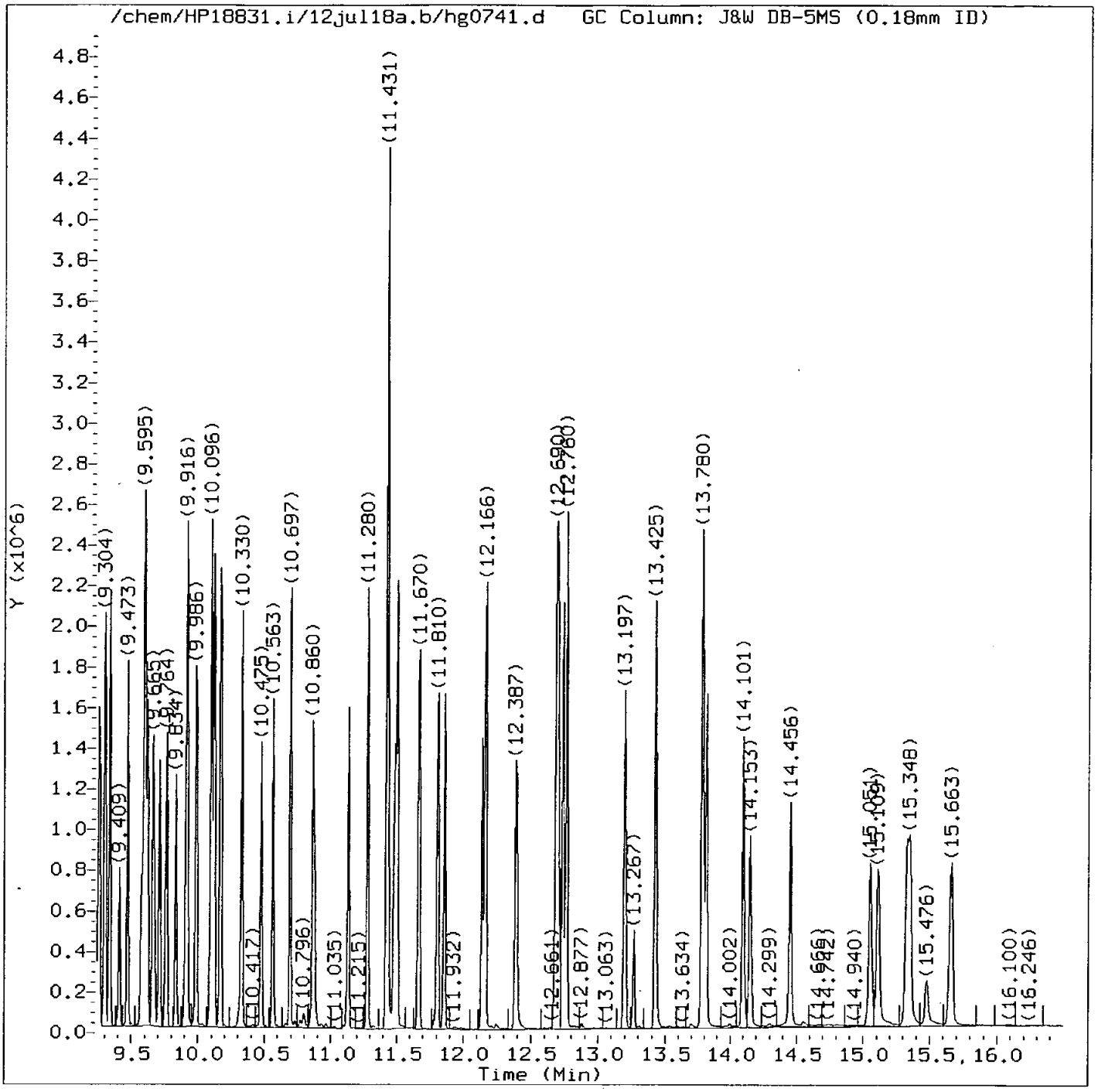
Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 19:03 hb01996

Sample Name: SSTD030

Lab Sample ID: STD1982

Digitally signed by Holly Berry
on 07/18/2012 at 19:04.
Target 3.5 esignature user ID: hb01996



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0741.d
Injection date and time: 18-JUL-2012 18:41

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 19:03

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 19:03 hb01996

Sample Name: SSTD030

Lab Sample ID: STD1982

Digitally signed by Holly Berry
on 07/18/2012 at 19:05.
Target 3.5 esignature user ID: hb01996

ASX73 0037

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0741.d
Injection date and time: 18-JUL-2012 18:41

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 19:03

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 19:03 hb01996

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.513	88	125881	27.401
2) N-Nitrosodimethylamine	(1)	2.898	74	217077	28.706
3) Pyridine	(1)	2.945	79	380507M	30.179
5) 2-Picoline	(1)	3.778	93	365900	28.125
6) N-Nitrosomethylethylamine	(1)	3.906	88	169632	28.425
7) Methyl methanesulfonate	(1)	4.239	80	196369	28.843
9)$2-Fluorophenol	(1)	4.402	112	286939	28.854
10) N-Nitrosodiethylamine	(1)	4.635	102	166776	29.300
11) Ethyl methanesulfonate	(1)	4.950	109	160318	29.517
12) Benzaldehyde	(1)	5.259	77	234376	24.486
14)$Phenol-d5	(1)	5.346	99	408106	28.976
15)$Phenol-d6	(1)	5.346	99	408106	28.976
16) Phenol	(1)	5.358	94	488584	29.337
13) Aniline	(1)	5.369	93	548638	28.662
18) bis(2-Chloroethyl)ether	(1)	5.445	93	361560	29.172
19) 2-Chlorophenol	(1)	5.480	128	269971	29.269
20) 1,3-Dichlorobenzene	(1)	5.626	146	267241	28.722
21)*1,4-Dichlorobenzene-d4	(1)	5.684	152	118020	20.000
22) 1,4-Dichlorobenzene	(1)	5.702	146	273923	28.833
24) Benzyl alcohol	(1)	5.830	108	240688	30.085
25) 1,2-Dichlorobenzene	(1)	5.847	146	260769	29.491
206) Indene	(1)	5.935	115	480800	28.712
26) 2-Methylphenol	(1)	5.946	108	312933	29.422
28) bis(2-Chloroisopropyl)ether	(1)	5.964	45	408415	28.140
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.964	45	408415	28.140
29) N-Nitrosopyrrolidine	(1)	6.069	100	177696	30.744
30) Acetophenone	(1)	6.086	105	476104	29.379
33) 4-Methylphenol	(1)	6.092	108	354902	30.804
31) N-Nitroso-di-n-propylamine	(1)	6.098	70	285045	29.126
32) N-Nitrosomorpholine	(1)	6.110	56	196218	28.433
34) o-Toluidine	(1)	6.115	106	507183	29.639
37) Hexachloroethane	(1)	6.174	117	122000	29.041
38)$Nitrobenzene-d5	(2)	6.226	82	390315	28.282
39) Nitrobenzene	(2)	6.244	77	404339	28.143
40) N-Nitrosopiperidine	(2)	6.395	114	156781	28.747
41) Isophorone	(2)	6.483	82	763169	28.289
42) 2-Nitrophenol	(2)	6.553	139	147331	29.027
44) 2,4-Dimethylphenol	(2)	6.605	107	337691	28.297
45) O,O,O-triethylphosphorothioate	(2)	6.681	198	130294	27.682
46) bis(2-Chloroethoxy)methane	(2)	6.704	93	449628	27.685

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 19:05.
Target 3.5 esignature user ID: hb01996

ASX73 0058

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0741.d
Injection date and time: 18-JUL-2012 18:41

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 19:03

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 19:03 hb01996

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
47) Benzoic acid	(2)	6.727	105	334005	36.301
49) 2,4-Dichlorophenol	(2)	6.786	162	220845	28.854
50) 1,2,4-Trichlorobenzene	(2)	6.867	180	243036	28.731
52) *Naphthalene-d8	(2)	6.920	136	501337	20.000
53) Naphthalene	(2)	6.943	128	804893	28.179
56) 4-Chloroaniline	(2)	7.001	127	344633	29.701
57) 2,6-Dichlorophenol	(2)	7.007	162	214709	29.175
58) Hexachloropropene	(2)	7.030	213	148033	29.785
60) Hexachlorobutadiene	(2)	7.071	225	123369	28.182
194) Quinoline	(2)	7.275	129	547376	29.364
64) N-Nitrosodi-n-butylamine	(2)	7.339	84	263770	25.033
63) Caprolactam	(2)	7.369	113	125411	31.015
68) 4-Chloro-3-methylphenol	(2)	7.485	107	308516	29.414
69) Safrole	(2)	7.543	162	213588	29.257
70) 2-Methylnaphthalene	(2)	7.619	142	510999	29.295
71) 1-Methylnaphthalene	(2)	7.718	142	493938	28.947
72) Hexachlorocyclopentadiene	(3)	7.777	237	107288	29.346
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.782	216	228737	28.919
74) cis-Isosafrole	(3)	7.829	162	39506	3.181
75) 2,4,6-Trichlorophenol	(3)	7.899	196	164523	29.837
77) 2,4,5-Trichlorophenol	(3)	7.934	196	183322	30.086
78) $2-Fluorobiphenyl	(3)	7.986	172	576900	29.151
79) trans-Isosafrole	(3)	8.051	162	224285	26.039
80) Isosafrole	(3)	8.051	162	224285	29.257
83) 1,1'-Biphenyl	(3)	8.080	154	686042	29.144
84) 2-Chloronaphthalene	(3)	8.097	162	587951M	34.376
85) 1-Chloronaphthalene	(3)	8.115	162	486204M	28.614
88) Diphenyl ether	(3)	8.185	170	351200	28.027
89) 2-Nitroaniline	(3)	8.202	138	183473	31.062
90) 1,4-Naphthoquinone	(3)	8.272	158	219521	30.400
91) 1,4-Dinitrobenzene	(3)	8.336	168	95483	29.618
92) Dimethylphthalate	(3)	8.394	163	593243	29.606
93) 1,3-Dinitrobenzene	(3)	8.412	168	114155	30.143
94) 2,6-Dinitrotoluene	(3)	8.441	165	139470	30.780
95) Acenaphthylene	(3)	8.499	152	764277	29.439
97) 3-Nitroaniline	(3)	8.598	138	161541	31.207
98) *Acenaphthene-d10	(3)	8.639	164	296645	20.000
99) Acenaphthene	(3)	8.668	153	513116	28.864
100) 2,4-Dinitrophenol	(3)	8.709	184	116795	42.305
103) 4-Nitrophenol	(3)	8.773	109	113991	31.825

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 19:05.
Target 3.5 esignature user ID: hb01996

ASX73 0039

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0741.d
Injection date and time: 18-JUL-2012 18:41

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 19:03

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 19:03 hb01996

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.797	250	180150	28.306
105) 2,4-Dinitrotoluene	(3)	8.837	165	177052	30.346
104) Dibenzofuran	(3)	8.843	168	727725	28.859
106) 1-Naphthylamine	(3)	8.919	143	545592	30.118
107) 2,3,4,6-Tetrachlorophenol	(3)	8.960	232	134094	30.833
108) 2-Naphthylamine	(3)	8.995	143	553443	30.949
109) Diethylphthalate	(3)	9.088	149	612499	29.547
110) Thionazin	(3)	9.170	107	119232	27.993
111) Fluorene	(3)	9.175	166	597083	29.624
112) 4-Chlorophenyl-phenylether	(3)	9.187	204	284990	29.311
113) 5-Nitro-o-toluidine	(3)	9.193	152	176961	30.626
114) 4-Nitroaniline	(3)	9.205	138	161006	30.854
115) 4,6-Dinitro-2-methylphenol	(4)	9.234	198	104497	29.248
117) N-Nitrosodiphenylamine	(4)	9.304	169	521955	29.616
202) NDPA as diphenylamine	(4)	9.304	169	521953	29.351
118) 1,2-Diphenylhydrazine	(4)	9.339	77	876631	28.562
119)$2,4,6-Tribromophenol	(3)	9.414	330	59303	31.279
120) Tetraethyldithiopyrophosphate	(4)	9.473	97	125105	29.072
121) 1,3,5-Trinitrobenzene	(4)	9.578	213	64124	28.847
122) Diallate (peak 1)	(4)	9.589	86	304059	21.376
123) Phorate	(4)	9.601	75	555576	30.864
124) Phenacetin	(4)	9.618	108	380923	30.704
125) 4-Bromophenyl-phenylether	(4)	9.665	248	143470	28.564
126) Diallate (peak 2)	(4)	9.677	86	61806	7.095
127) Hexachlorobenzene	(4)	9.712	284	139526	28.339
128) Dimethoate	(4)	9.764	87	315981	31.372
130) Atrazine	(4)	9.840	200	120405	25.507
131) Pentachlorophenol	(4)	9.910	266	93833	29.656
133) 4-Aminobiphenyl	(4)	9.916	169	463889	27.983
132) Pentachloronitrobenzene	(4)	9.922	237	67296	29.792
134) Pronamide	(4)	9.986	173	270494	31.356
135)*Phenanthrene-d10	(4)	10.096	188	498473	20.000
136) Dinoseb	(4)	10.096	211	148042	29.065
137) Phenanthrene	(4)	10.120	178	844674	29.411
138) Anthracene	(4)	10.166	178	858483	30.250
140) Carbazole	(4)	10.330	167	807837	29.855
141) Methyl parathion	(4)	10.475	109	231236	31.886
142) Di-n-butylphthalate	(4)	10.697	149	1055939	30.690
143) Parathion	(4)	10.860	109	142568	30.795
144) 4-Nitroquinoline-1-oxide	(4)	10.877	190	76998	30.220

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/18/2012 at 19:05.
Target 3.5 esignature user ID: hb01996

ASX73 0049

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0741.d
Injection date and time: 18-JUL-2012 18:41

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 19:03

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 19:03 hb01996

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.134	193	98800	29.873
147) Fluoranthene	(4)	11.280	202	879325	30.868
152) Benzidine	(5)	11.431	184	1805738	97.377
167)*Pyrene-d10	(5)	11.484	212	551943	20.000
154) Pyrene	(5)	11.507	202	913254	28.830
156)$Terphenyl-d14	(5)	11.670	244	547720	29.638
158) p-Dimethylaminoazobenzene	(5)	11.810	225	178733	31.887
159) Chlorobenzilate	(5)	11.857	139	290156	32.312
160) 3,3'-Dimethylbenzidine	(5)	12.142	212	530725	32.436
161) Butylbenzylphthalate	(5)	12.166	149	431572	31.398
162) 2-Acetylaminofluorene	(5)	12.387	181	337527	33.858
164) 3,3'-Dichlorobenzidine	(5)	12.678	252	267384	32.472
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.690	231	142503	34.125
166) Benzo(a)anthracene	(5)	12.702	228	753359	32.404
168) Chrysene	(5)	12.737	228	733976	31.322
169) bis(2-Ethylhexyl)phthalate	(5)	12.760	149	572261	32.576
189) 6-Methylchrysene	(5)	13.197	242	505189	32.484
170) Di-n-octylphthalate	(6)	13.425	149	974399	30.020
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.780	256	300212	28.991
172) Benzo(b)fluoranthene	(6)	13.786	252	626302	27.343
173) Benzo(k)fluoranthene	(6)	13.815	252	692487	30.544
174) Benzo(a)pyrene	(6)	14.101	252	616421	30.011
175)*Perylene-d12	(6)	14.153	264	361995	20.000
176) 3-Methylcholanthrene	(6)	14.456	268	312403	31.060
190) Dibenz(a,h)acridine	(6)	15.051	279	451615	31.134
191) Dibenz(a,j)acridine	(6)	15.109	279	473449	30.146
177) Indeno(1,2,3-cd)pyrene	(6)	15.330	276	630044	31.734
178) Dibenz(a,h)anthracene	(6)	15.354	278	515934	31.633
179) Benzo(g,h,i)perylene	(6)	15.663	276	535949	31.970
129) Diallate TRANS/CIS	(4)			365865	28.481

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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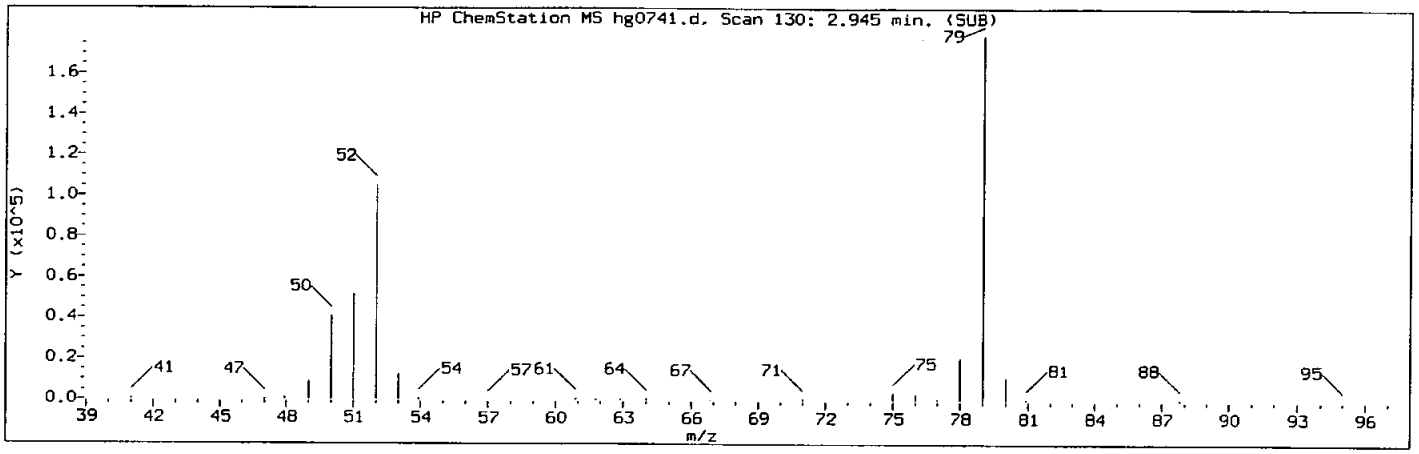
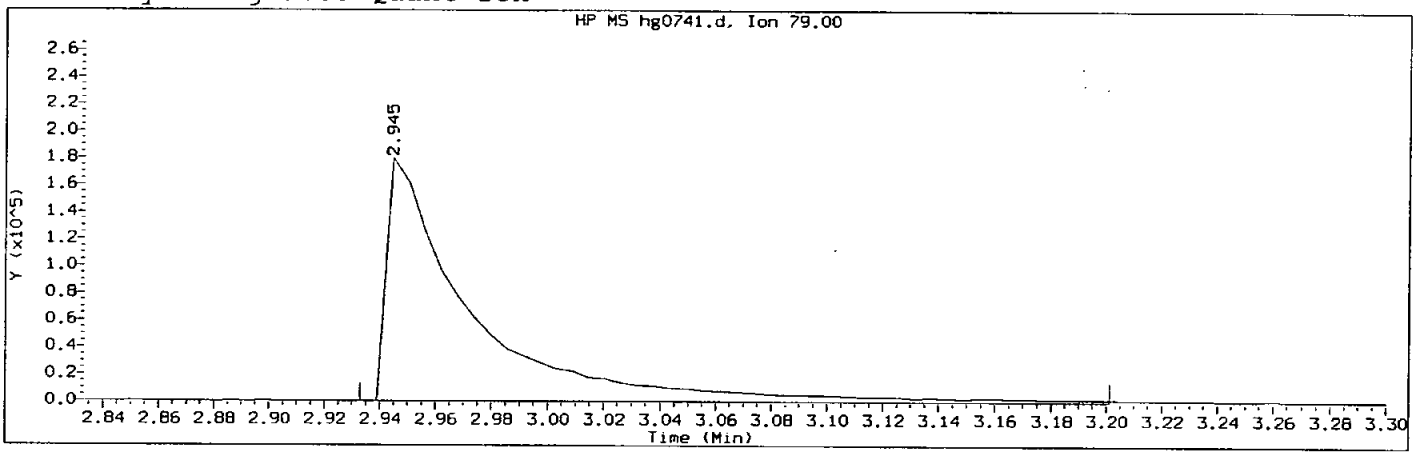
on 07/18/2012 at 19:05.
Target 3.5 esignature user ID: hb01996

ASX73 0041

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0741.d Instrument ID: HP18831.i
Injection date and time: 18-JUL-2012 18:41 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 19:03
Date, time and analyst ID of latest file update: 18-Jul-2012 19:03 hb01996

Sample Name: SSTD030 Lab Sample ID: STD1982

Compound Number	: 3		
Compound Name	: Pyridine		
Scan Number	: 130		
Retention Time (minutes)	: 2.945		
Quant Ion	: 79.00		
Area (flag)	: 380507M		
On-Column Amount (ng/ul)	: 30.1786		
Integration start scan	: 127	Integration stop scan:	173
Y at integration start	: 0	Y at integration end:	0

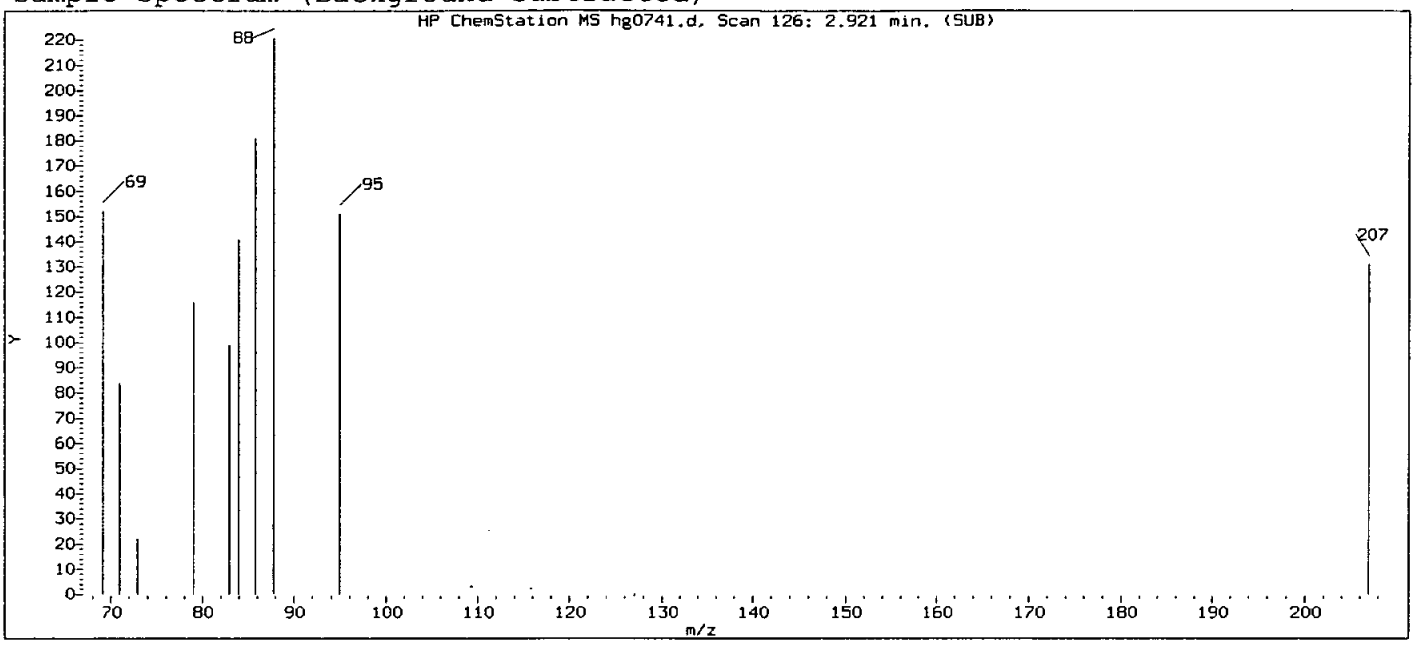
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Holly Berry on 07/18/2012 at 19:05. Target 3.5 esignature user ID: hb01996

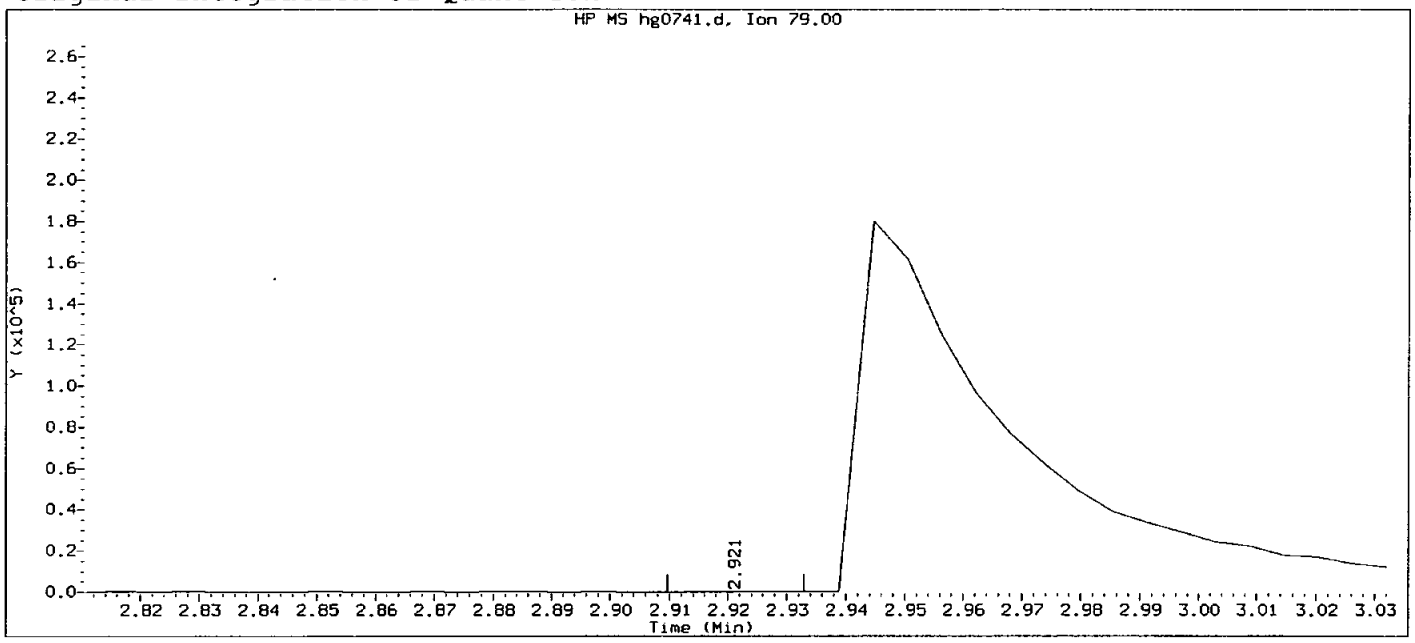
Secondary review performed and digitally signed by Matthew E. Barton on 07/19/2012 at 12:50. Parallax ID: reb00745

ASX73 0842

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0741.d Instrument ID: HP18831.i
Injection date and time: 18-JUL-2012 18:41 Analyst ID: hb01996

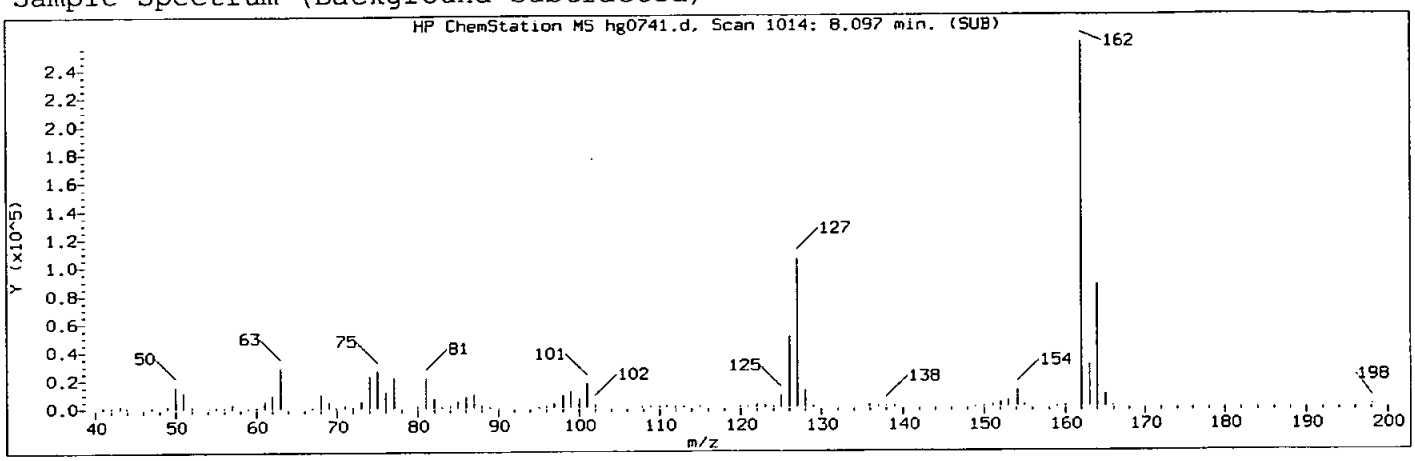
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 18:59
Date, time and analyst ID of latest file update: 18-Jul-2012 18:59 Automation

Sample Name: SSTD030 Lab Sample ID: STD1982

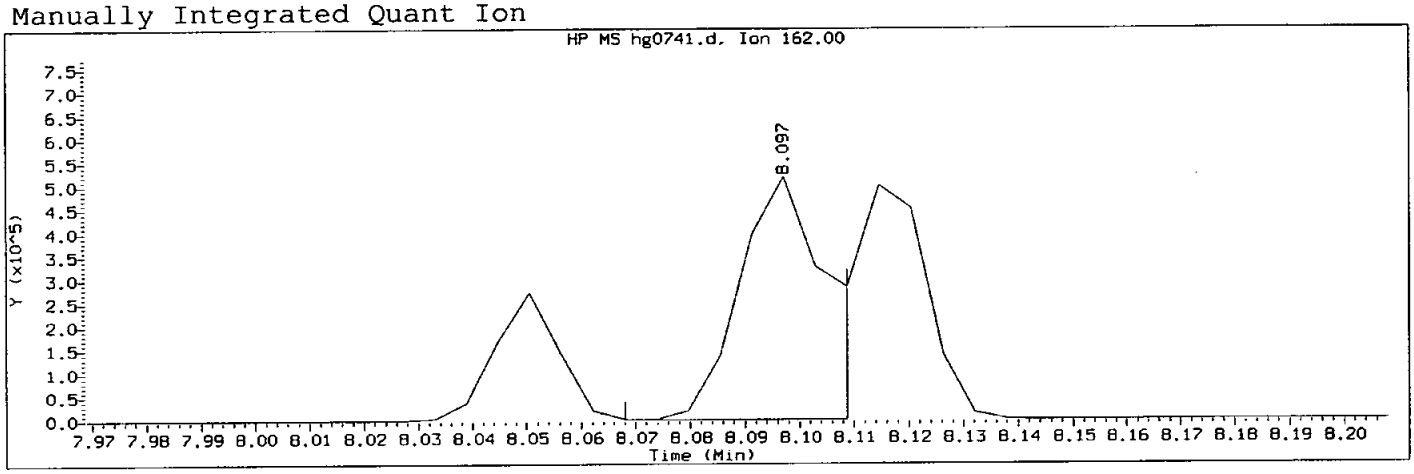
Compound Number	: 3		
Compound Name	: Pyridine		
Scan Number	: 126		
Retention Time (minutes)	: 2.921		
Quant Ion	: 79.00		
Area	: 107		
On-column Amount (ng/ul)	: 0.0085		
Integration start scan	: 123	Integration stop scan:	127
Y at integration start	: 0	Y at integration end:	151

Digitally signed by Holly Berry on 07/18/2012 at 19:05.
Target 3.5 esignature user ID: hb01996

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0741.d Instrument ID: HP18831.i
Injection date and time: 18-JUL-2012 18:41 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 19:03
Date, time and analyst ID of latest file update: 18-Jul-2012 19:03 hb01996

Sample Name: SSTD030 Lab Sample ID: STD1982

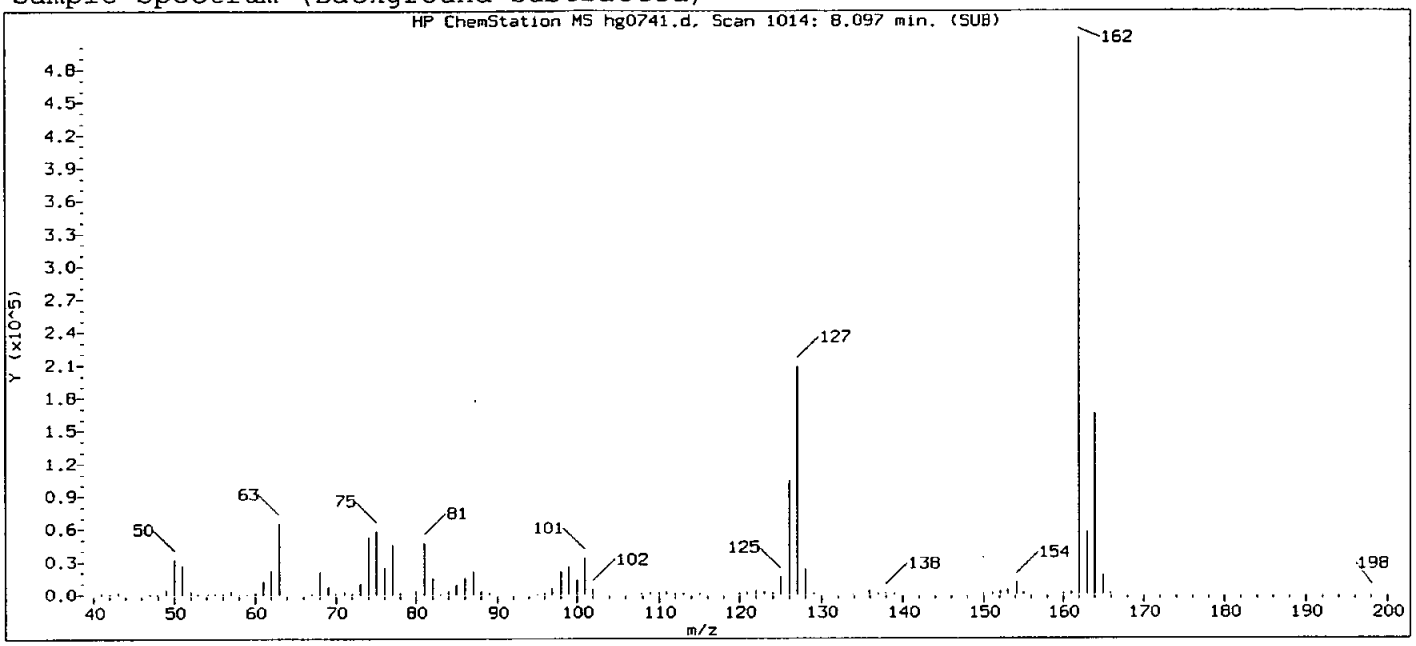
Compound Number	:	84
Compound Name	:	2-Chloronaphthalene
Scan Number	:	1014
Retention Time (minutes)	:	8.097
Quant Ion	:	162.00
Area (flag)	:	587951M
On-Column Amount (ng/ul)	:	34.3761
Integration start scan	:	1008 Integration stop scan: 1015
Y at integration start	:	372 Y at integration end: 325

Reason for manual integration: improper integration

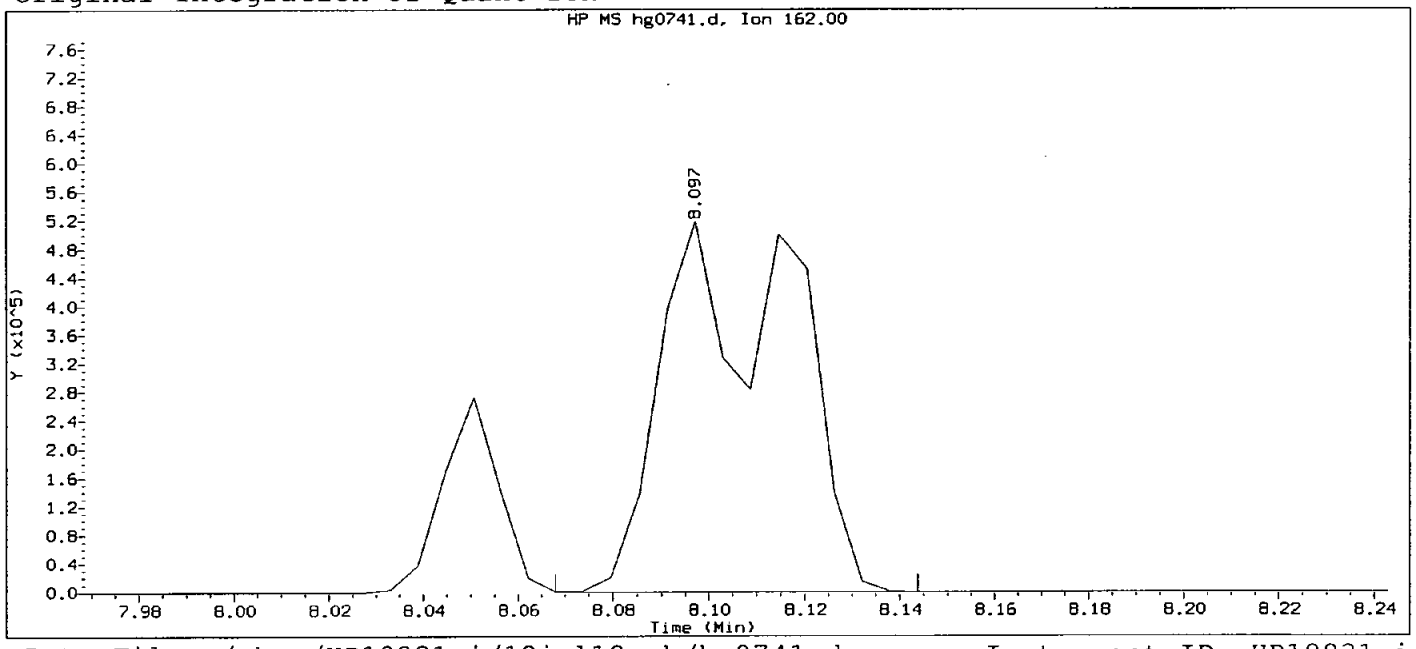
Analyst responsible for change: Digitally signed by Holly Berry on 07/18/2012 at 19:05. Target 3.5 esignature user ID: hb01996

Secondary review performed and digitally signed by Matthew E. Barton on 07/19/2012 at 12:50.
Parallax ID: reb00745

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0741.d Instrument ID: HP18831.i
Injection date and time: 18-JUL-2012 18:41 Analyst ID: hb01996

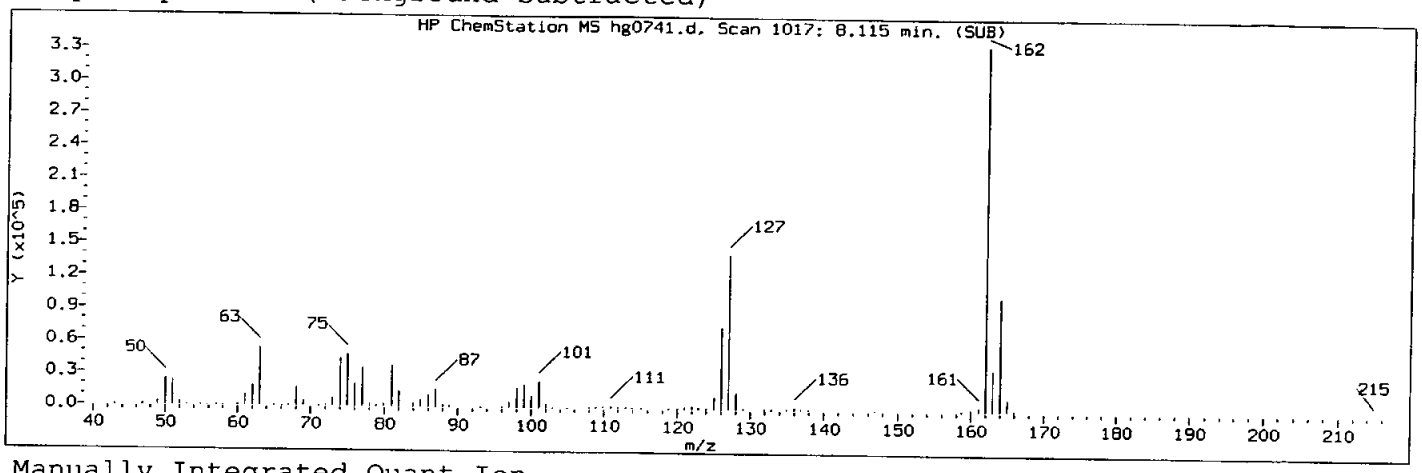
Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 18:59
Date, time and analyst ID of latest file update: 18-Jul-2012 18:59 Automation

Sample Name: SSTD030 Lab Sample ID: STD1982

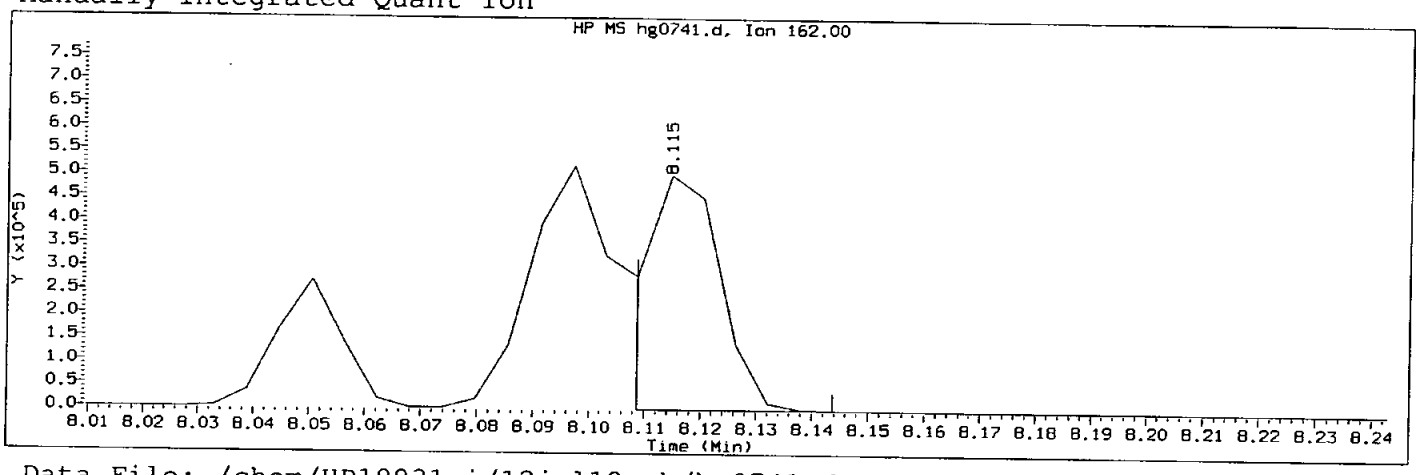
Compound Number	: 84	
Compound Name	: 2-Chloronaphthalene	
Scan Number	: 1014	
Retention Time (minutes)	: 8.097	
Quant Ion	: 162.00	
Area	: 974308	
On-column Amount (ng/ul)	: 56.9655	
Integration start scan	: 1008	Integration stop scan: 1021
Y at integration start	: 372	Y at integration end: 284

Digitally signed by Holly Berry on 07/18/2012 at 19:05.
Target 3.5 esignature user ID: hb01996

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0741.d
Injection date and time: 18-JUL-2012 18:41

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 19:03

Sublist used: newall1

Date, time and analyst ID of latest file update: 18-Jul-2012 19:03 hb01996

Sample Name: SSTD030

Lab Sample ID: STD1982

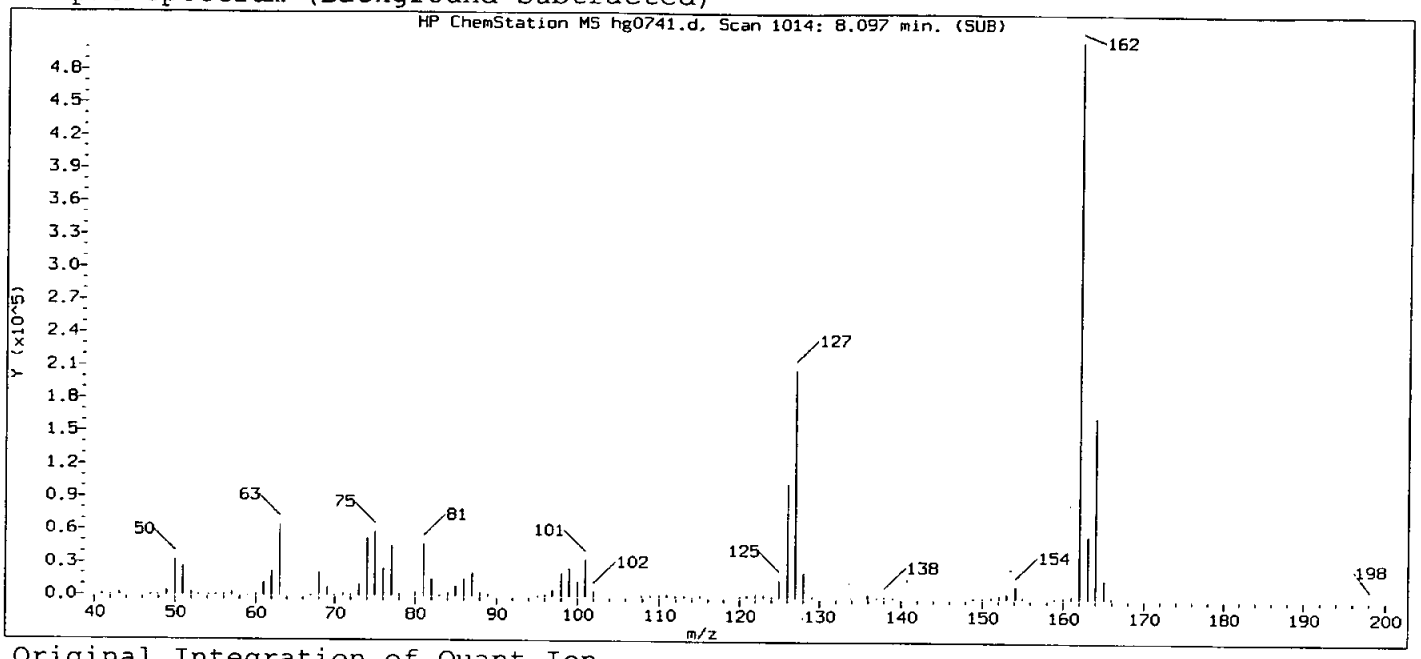
Compound Number	:	85
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1017
Retention Time (minutes)	:	8.115
Quant Ion	:	162.00
Area (flag)	:	486204M
On-Column Amount (ng/ul)	:	28.6143
Integration start scan	:	1015
Integration stop scan	:	1021
Y at integration start	:	0
Y at integration end	:	0

Reason for manual integration: improper integration

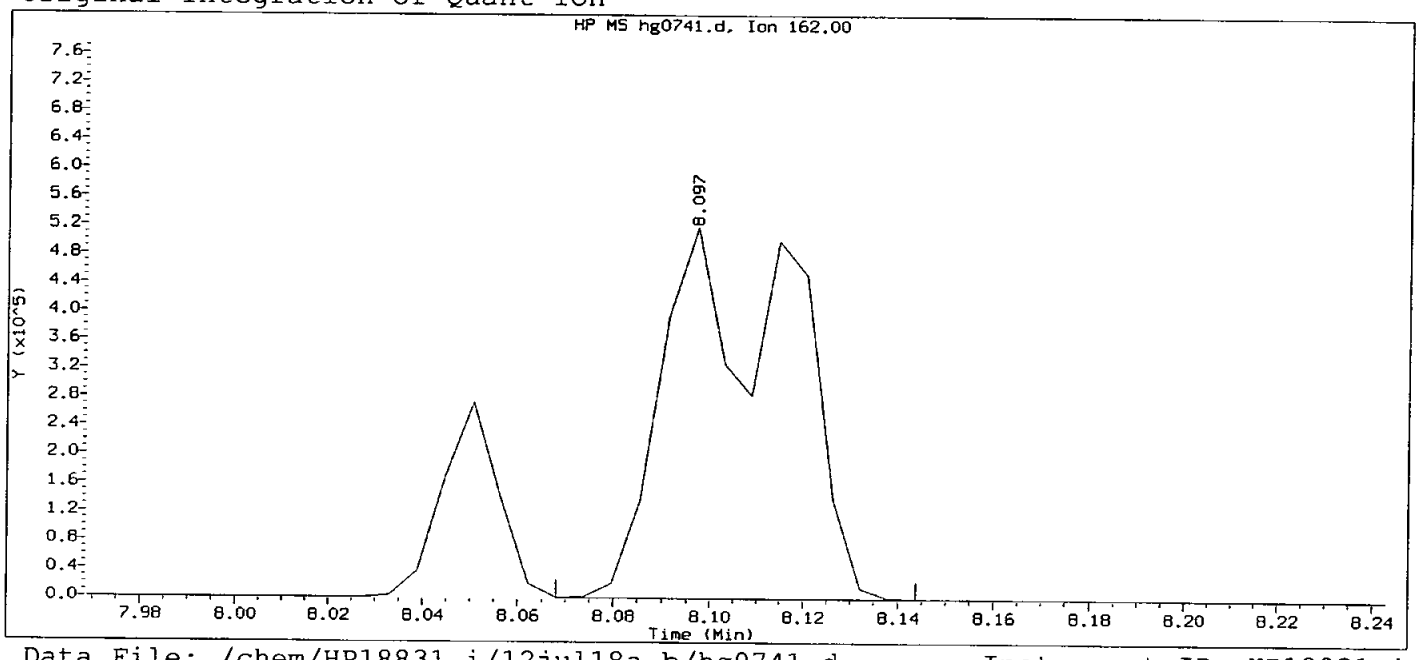
Analyst responsible for change: Digitally signed by Holly Berry on 07/18/2012 at 19:05 Target 3.5 esignature user ID: hb01996

Secondary review performed and digitally signed by Matthew E. Barton on 07/19/2012 at 12:50
Paralax ID: reb00745

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0741.d
Injection date and time: 18-JUL-2012 18:41

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 18:59

Sublist used: newall1

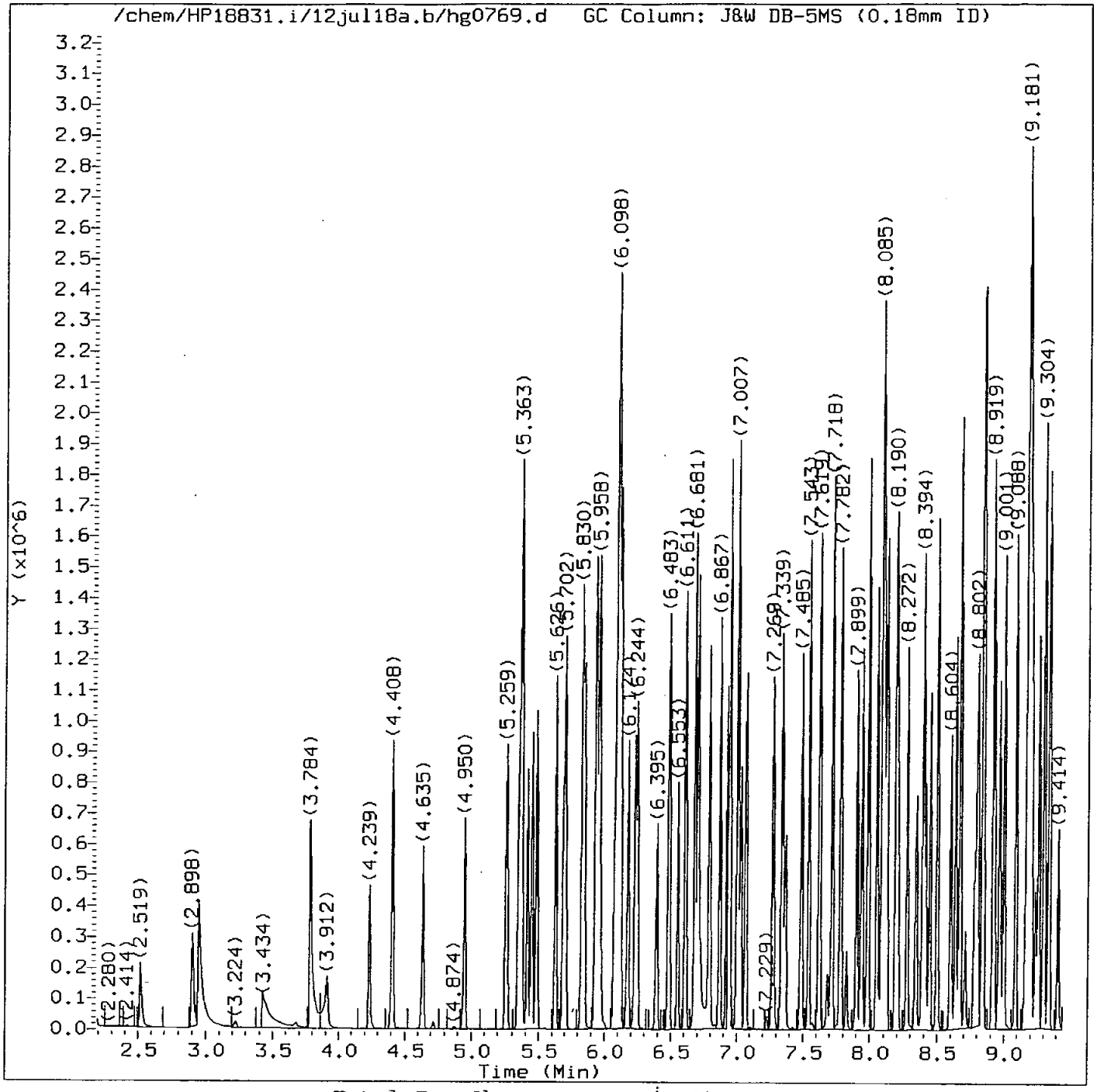
Date, time and analyst ID of latest file update: 18-Jul-2012 18:59 Automation

Sample Name: SSTD030

Lab Sample ID: STD1982

Compound Number	:	85
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1014
Retention Time (minutes)	:	8.097
Quant Ion	:	162.00
Area	:	975092
On-column Amount (ng/ul)	:	57.3865
Integration start scan	:	1008
Integration stop scan	:	1021
Y at integration start	:	188
Y at integration end	:	124

Digitally signed by Holly Berry on 07/18/2012 at 19:05.
Target 3.5 esignature user ID: hb01996



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0769.d
Injection date and time: 19-JUL-2012 05:14

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: newall1

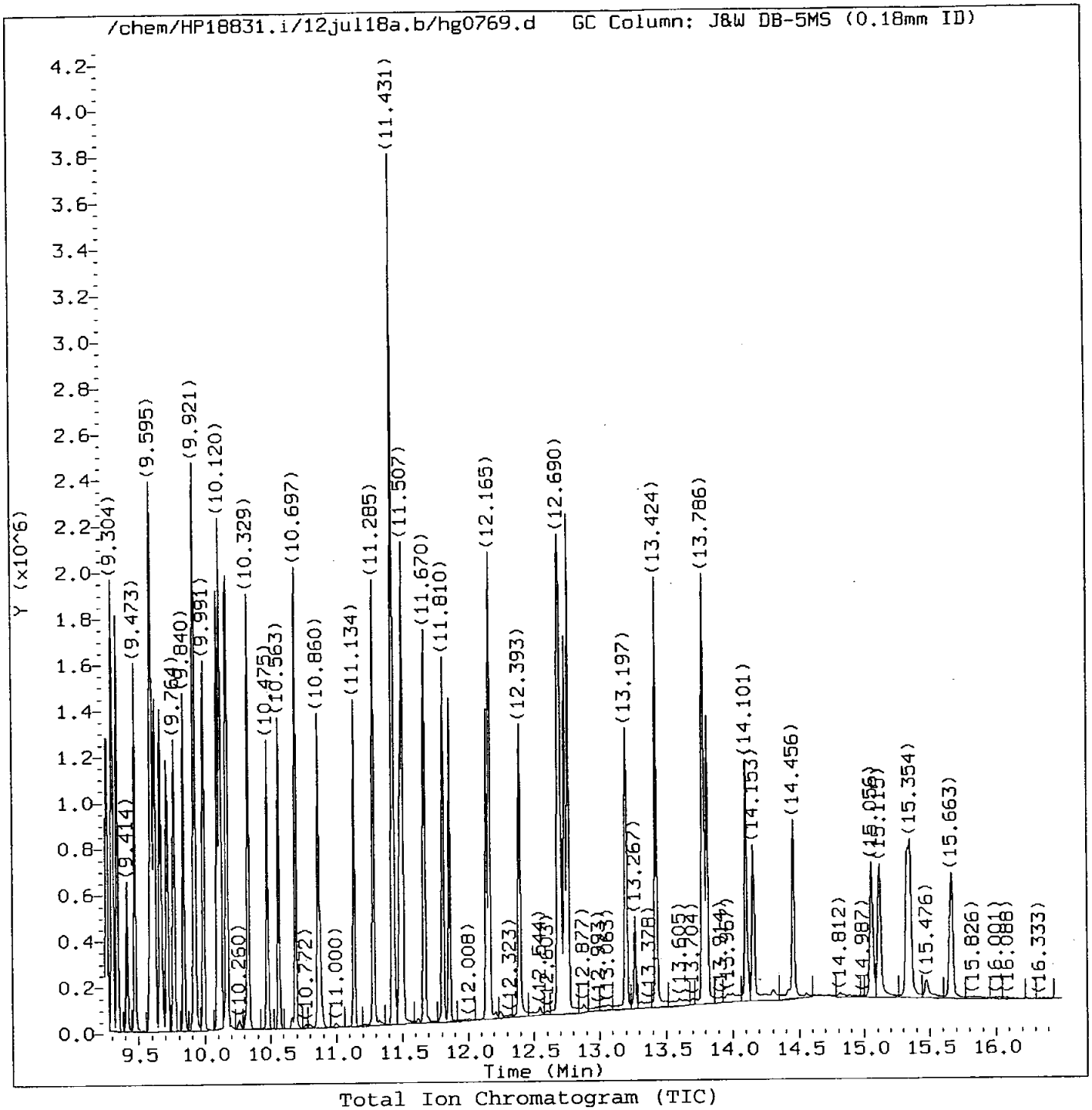
Date, time and analyst ID of latest file update: 19-Jul-2012 05:38 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 05:38.
Target 3.5 esignature user ID: jmg00346

ASX73 0848



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0769.d
Injection date and time: 19-JUL-2012 05:14

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 05:38 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 05:38.
Target 3.5 esignature user ID: jmg00346

ASX73 0849

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0769.d
Injection date and time: 19-JUL-2012 05:14

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 05:38 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.519	88	110297	25.762
2) N-Nitrosodimethylamine	(1)	2.898	74	195509	27.742
3) Pyridine	(1)	2.945	79	347918	29.609
5) 2-Picoline	(1)	3.784	93	327463	27.008
6) N-Nitrosomethylethylamine	(1)	3.912	88	155863	28.025
7) Methyl methanesulfonate	(1)	4.239	80	176760	27.858
9)$2-Fluorophenol	(1)	4.408	112	259889	28.042
10) N-Nitrosodiethylamine	(1)	4.635	102	150588	28.388
11) Ethyl methanesulfonate	(1)	4.950	109	140514	27.759
12) Benzaldehyde	(1)	5.259	77	219097	24.561
14)$Phenol-d5	(1)	5.346	99	368438	28.069
15)$Phenol-d6	(1)	5.346	99	368438	28.069
16) Phenol	(1)	5.363	94	438700	28.265
13) Aniline	(1)	5.369	93	502738	28.182
18) bis(2-Chloroethyl)ether	(1)	5.445	93	330241	28.590
19) 2-Chlorophenol	(1)	5.480	128	249730	29.051
20) 1,3-Dichlorobenzene	(1)	5.626	146	249173	28.735
21)*1,4-Dichlorobenzene-d4	(1)	5.684	152	109989	20.000
22) 1,4-Dichlorobenzene	(1)	5.702	146	254289	28.721
24) Benzyl alcohol	(1)	5.830	108	216919	29.093
25) 1,2-Dichlorobenzene	(1)	5.847	146	240437	29.177
206) Indene	(1)	5.935	115	436070	27.942
26) 2-Methylphenol	(1)	5.952	108	284997	28.752
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.964	45	350266	25.895
28) bis(2-Chloroisopropyl)ether	(1)	5.964	45	350266	25.895
29) N-Nitrosopyrrolidine	(1)	6.069	100	155418	28.853
30) Acetophenone	(1)	6.086	105	435026	28.804
31) N-Nitroso-di-n-propylamine	(1)	6.098	70	255612	28.026
33) 4-Methylphenol	(1)	6.098	108	325759	30.338
32) N-Nitrosomorpholine	(1)	6.110	56	175743	27.325
34) o-Toluidine	(1)	6.115	106	459572	28.817
37) Hexachloroethane	(1)	6.174	117	113154	28.902
38)$Nitrobenzene-d5	(2)	6.226	82	355477	28.626
39) Nitrobenzene	(2)	6.244	77	372641	28.825
40) N-Nitrosopiperidine	(2)	6.395	114	139893	28.507
41) Isophorone	(2)	6.483	82	682633	28.122
42) 2-Nitrophenol	(2)	6.553	139	134624	29.477
44) 2,4-Dimethylphenol	(2)	6.611	107	312636	29.115
45) O,O,O-triethylphosphorothioate	(2)	6.681	198	122568	28.940
46) bis(2-Chloroethoxy)methane	(2)	6.704	93	405756	27.766

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 05:38.
Target 3.5 esignature user ID: jmg00346

ASX73 0050

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0769.d
Injection date and time: 19-JUL-2012 05:14

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 05:38 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
47) Benzoic acid	(2)	6.722	105	256204	30.946
49) 2,4-Dichlorophenol	(2)	6.791	162	204612	29.710
50) 1,2,4-Trichlorobenzene	(2)	6.867	180	227542	29.895
52) *Naphthalene-d8	(2)	6.926	136	451105	20.000
53) Naphthalene	(2)	6.943	128	729681	28.390
56) 4-Chloroaniline	(2)	7.001	127	306549	29.361
57) 2,6-Dichlorophenol	(2)	7.007	162	195357	29.501
58) Hexachloropropene	(2)	7.030	213	120937	27.043
60) Hexachlorobutadiene	(2)	7.071	225	116875	29.671
194) Quinoline	(2)	7.269	129	479679	28.598
64) N-Nitrosodi-n-butylamine	(2)	7.339	84	253828	27.160
63) Caprolactam	(2)	7.369	113	113777	31.272
68) 4-Chloro-3-methylphenol	(2)	7.485	107	285227	30.222
69) Safrole	(2)	7.543	162	195377	29.743
70) 2-Methylnaphthalene	(2)	7.625	142	462552	29.471
71) 1-Methylnaphthalene	(2)	7.718	142	452728	29.486
72) Hexachlorocyclopentadiene	(3)	7.777	237	64087	19.834
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.788	216	212935	30.459
74) cis-Isosafrole	(3)	7.829	162	36527	3.328
75) 2,4,6-Trichlorophenol	(3)	7.905	196	153120	31.418
77) 2,4,5-Trichlorophenol	(3)	7.940	196	165447	30.721
78) $2-Fluorobiphenyl	(3)	7.986	172	537240	30.715
79) trans-Isosafrole	(3)	8.050	162	204291	26.835
80) Isosafrole	(3)	8.050	162	204291	30.151
83) 1,1'-Biphenyl	(3)	8.085	154	630343	30.298
84) 2-Chloronaphthalene	(3)	8.097	162	460664	30.474
85) 1-Chloronaphthalene	(3)	8.120	162	428454	28.530
88) Diphenyl ether	(3)	8.185	170	330939	29.882
89) 2-Nitroaniline	(3)	8.202	138	164682	31.545
90) 1,4-Naphthoquinone	(3)	8.272	158	183766	28.793
91) 1,4-Dinitrobenzene	(3)	8.342	168	86260	30.274
92) Dimethylphthalate	(3)	8.394	163	520668	29.399
93) 1,3-Dinitrobenzene	(3)	8.412	168	101105	30.206
94) 2,6-Dinitrotoluene	(3)	8.447	165	126185	31.509
95) Acenaphthylene	(3)	8.499	152	693388	30.218
97) 3-Nitroaniline	(3)	8.604	138	143510	31.367
98) *Acenaphthene-d10	(3)	8.639	164	262184	20.000
99) Acenaphthene	(3)	8.674	153	464689	29.576
100) 2,4-Dinitrophenol	(3)	8.709	184	41157	16.868
103) 4-Nitrophenol	(3)	8.779	109	100821	31.848

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 05:38.
Target 3.5 esignature user ID: jmg00346

ASX73 0851

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0769.d
Injection date and time: 19-JUL-2012 05:14

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 05:38 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.802	250	172286	30.628
105) 2,4-Dinitrotoluene	(3)	8.837	165	157963	30.633
104) Dibenzofuran	(3)	8.843	168	667042	29.930
106) 1-Naphthylamine	(3)	8.919	143	498486	31.135
107) 2,3,4,6-Tetrachlorophenol	(3)	8.966	232	124004	32.261
108) 2-Naphthylamine	(3)	9.001	143	506808	32.066
109) Diethylphthalate	(3)	9.088	149	552269	30.143
110) Thionazin	(3)	9.170	107	106382	28.259
111) Fluorene	(3)	9.175	166	544070	30.541
112) 4-Chlorophenyl-phenylether	(3)	9.187	204	259066	30.147
113) 5-Nitro-o-toluidine	(3)	9.199	152	161529	31.630
114) 4-Nitroaniline	(3)	9.205	138	142392	30.873
115) 4,6-Dinitro-2-methylphenol	(4)	9.239	198	57400	17.302
117) N-Nitrosodiphenylamine	(4)	9.304	169	471269	28.798
202) NDPA as diphenylamine	(4)	9.304	169	471269	28.540
118) 1,2-Diphenylhydrazine	(4)	9.339	77	779137	27.339
119)$2,4,6-Tribromophenol	(3)	9.414	330	55870	33.342
120) Tetraethyldithiopyrophosphate	(4)	9.473	97	113623	28.436
121) 1,3,5-Trinitrobenzene	(4)	9.583	213	48367	24.107
122) Diallate (peak 1)	(4)	9.589	86	271550	20.560
123) Phorate	(4)	9.601	75	622020	36.839
124) Phenacetin	(4)	9.624	108	345423	29.985
125) 4-Bromophenyl-phenylether	(4)	9.665	248	137171	29.412
126) Diallate (peak 2)	(4)	9.677	86	57714	7.136
127) Hexachlorobenzene	(4)	9.712	284	132650	29.016
128) Dimethoate	(4)	9.764	87	303524	32.454
130) Atrazine	(4)	9.840	200	142490	32.508
131) Pentachlorophenol	(4)	9.910	266	82150	27.962
132) Pentachloronitrobenzene	(4)	9.921	237	60560	28.874
133) 4-Aminobiphenyl	(4)	9.921	169	498430	32.380
134) Pronamide	(4)	9.991	173	243676	30.421
135)*Phenanthrene-d10	(4)	10.096	188	462852	20.000
136) Dinoseb	(4)	10.102	211	84341	19.302
137) Phenanthrene	(4)	10.120	178	777498	29.155
138) Anthracene	(4)	10.172	178	785831	29.821
140) Carbazole	(4)	10.329	167	747484	29.751
141) Methyl parathion	(4)	10.475	109	213483	31.704
142) Di-n-butylphthalate	(4)	10.697	149	954698	29.883
143) Parathion	(4)	10.860	109	131856	30.673
144) 4-Nitroquinoline-1-oxide	(4)	10.877	190	40369	17.544

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 05:38.
Target 3.5 esignature user ID: jmg00346

ASX73 0852

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0769.d
Injection date and time: 19-JUL-2012 05:14

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 05:38 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.134	193	89572	29.167
147) Fluoranthene	(4)	11.285	202	809120	30.589
152) Benzidine	(5)	11.431	184	1564066	94.076
167)*Pyrene-d10	(5)	11.489	212	494852	20.000
154) Pyrene	(5)	11.507	202	824161	29.019
156)$Terphenyl-d14	(5)	11.670	244	497089	30.002
158) p-Dimethylaminoazobenzene	(5)	11.810	225	163619	32.559
159) Chlorobenzilate	(5)	11.857	139	254329	31.590
160) 3,3'-Dimethylbenzidine	(5)	12.142	212	465449	31.729
161) Butylbenzylphthalate	(5)	12.165	149	380448	30.872
162) 2-Acetylaminofluorene	(5)	12.393	181	305058	34.131
164) 3,3'-Dichlorobenzidine	(5)	12.684	252	226431	30.671
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.690	231	122349	32.679
166) Benzo(a)anthracene	(5)	12.702	228	632089	30.325
168) Chrysene	(5)	12.737	228	607852	28.933
169) bis(2-Ethylhexyl)phthalate	(5)	12.760	149	490784	31.161
189) 6-Methylchrysene	(5)	13.203	242	402513	28.868
170) Di-n-octylphthalate	(6)	13.424	149	793926	33.005
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.786	256	230740	30.067
172) Benzo(b)fluoranthene	(6)	13.786	252	512952	30.218
173) Benzo(k)fluoranthene	(6)	13.815	252	470003	27.973
174) Benzo(a)pyrene	(6)	14.101	252	453487	29.792
175)*Perylene-d12	(6)	14.153	264	268271	20.000
176) 3-Methylcholanthrene	(6)	14.456	268	223670	30.007
190) Dibenz(a,h)acridine	(6)	15.056	279	332943	30.972
191) Dibenz(a,j)acridine	(6)	15.115	279	349494	30.028
177) Indeno(1,2,3-cd)pyrene	(6)	15.330	276	460565	31.302
178) Dibenz(a,h)anthracene	(6)	15.354	278	384286	31.793
179) Benzo(g,h,i)perylene	(6)	15.668	276	387183	31.164
129) Diallate TRANS/CIS	(4)			329264	27.696

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 05:38.
Target 3.5 esignature user ID: jmg00346

ASX73 0853

Data File: /chem/HP18831.i/12jul19.b/hg0810.d

Date : 19-JUL-2012 06:31

Client ID: DFTPP

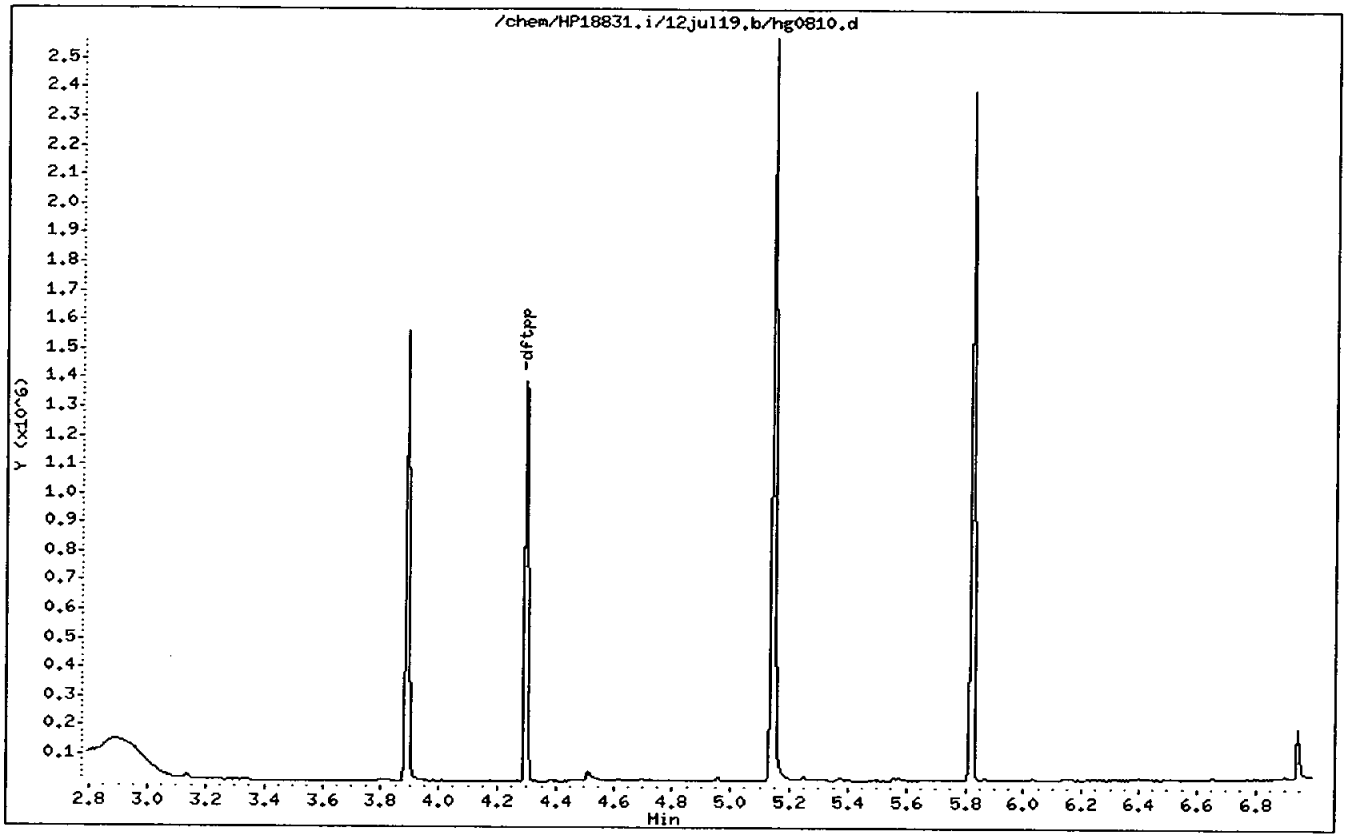
Instrument: HP18831.i

Sample Info: DFTPP;8270DFTPP1982;

Operator: jmg00346

Column phase: DB-5MS

Column diameter: 0.18



Digitally signed by Joseph M. Gambler on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346

Data File: /chem/HP18831.i/12jul19.b/hg0810.d

Date : 19-JUL-2012 06:31

Client ID: DFTPP

Instrument: HP18831.i

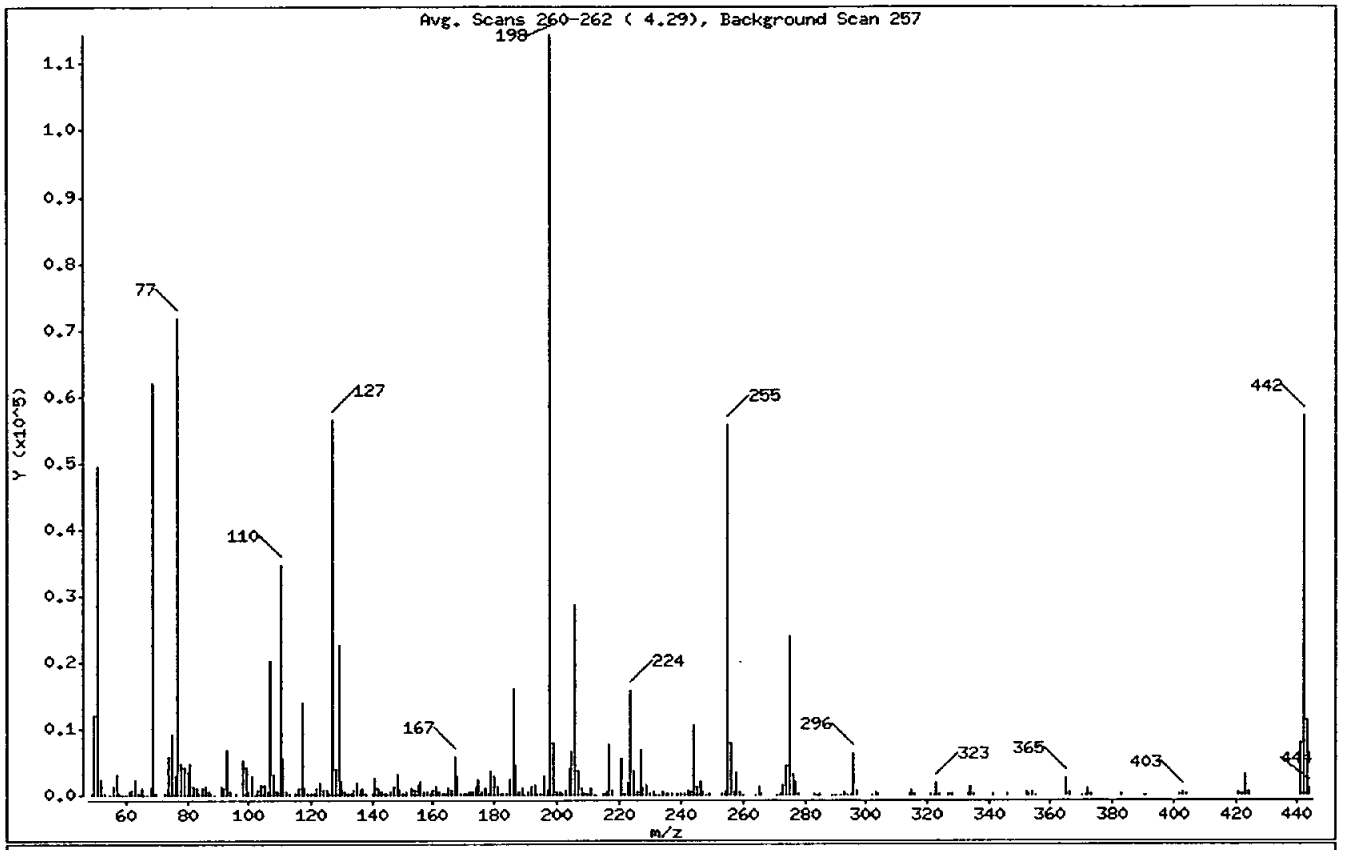
Sample Info: DFTPP;8270DFTPP1982;

Operator: jmg00346

Column phase: DB-5MS

Column diameter: 0.18

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	43.23
68	Less than 2.00% of mass 69	0.84 (1.55)
69	Mass 69 relative abundance	54.16
70	Less than 2.00% of mass 69	0.31 (0.58)
127	40.00 - 60.00% of mass 198	49.54
197	Less than 1.00% of mass 198	0.61
199	5.00 - 9.00% of mass 198	7.01
275	10.00 - 30.00% of mass 198	20.85
365	Greater than 1.00% of mass 198	2.21
441	Present, but less than mass 443	6.99
442	40.00 - 99.99% of mass 198	49.87
443	17.00 - 23.00% of mass 442	9.95 (19.95)

Digitally signed by Joseph M. Gambler on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346

Data File: /chem/HP18831.i/12jul19.b/hg0810.d

Date : 19-JUL-2012 06:31

Client ID: DFTPP

Instrument: HP18831.i

Sample Info: DFTPP;8270DFTPP1982;

Operator: jmg00346

Column phase: DB-5MS

Column diameter: 0.18

Data File: hg0810.d
Spectrum: Avg. Scans 260-262 (4.29), Background Scan 257
Location of Maximum: 198.00
Number of points: 259

m/z	Y	m/z	Y	m/z	Y	m/z	Y
49.00	276	121.00	164	188.00	465	260.00	75
50.00	11986	122.00	1154	189.00	969	264.00	76
51.00	49408	123.00	1785	190.00	119	265.00	1207
52.00	2466	124.00	736	191.00	536	266.00	204
53.00	232	125.00	751	192.00	1315	271.00	64
55.00	40	126.00	175	193.00	1606	272.00	147
56.00	1375	127.00	56624	194.00	341	273.00	1648
57.00	3180	128.00	4021	195.00	190	274.00	4392
58.00	236	129.00	22720	196.00	2909	275.00	23824
59.00	130	130.00	2108	197.00	703	276.00	3197
60.00	102	131.00	417	198.00	114312	277.00	2180
61.00	634	132.00	234	199.00	8008	278.00	325
62.00	798	133.00	157	200.00	599	283.00	228
63.00	2302	134.00	672	201.00	564	284.00	64
64.00	268	135.00	1896	202.00	160	285.00	393
65.00	1099	136.00	775	203.00	757	289.00	102
66.00	109	137.00	1005	204.00	4020	290.00	60
67.00	108	138.00	279	205.00	6624	292.00	62
68.00	961	140.00	268	206.00	28608	293.00	455
69.00	61912	141.00	2717	207.00	3558	294.00	73
70.00	360	142.00	940	208.00	974	295.00	169
73.00	206	143.00	530	209.00	364	296.00	6310
74.00	5894	144.00	132	210.00	248	297.00	915
75.00	9219	145.00	204	211.00	1138	302.00	83
76.00	3011	146.00	486	212.00	90	303.00	628
77.00	71848	147.00	1381	213.00	102	304.00	146
78.00	4735	148.00	3114	215.00	329	314.00	225
79.00	4179	149.00	749	216.00	621	315.00	760
80.00	3387	150.00	227	217.00	7605	316.00	358
81.00	4729	151.00	402	218.00	857	321.00	176
82.00	1198	153.00	977	221.00	5614	322.00	67
83.00	1088	154.00	743	222.00	393	323.00	1823
84.00	276	155.00	1543	223.00	1767	324.00	360
85.00	938	156.00	2123	224.00	15736	327.00	284
86.00	1209	157.00	503	225.00	3701	328.00	170

Digitally signed by Joseph M. Gambler on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346

Data File: /chem/HP18831.i/12jul19.b/hg0810.d

Date : 19-JUL-2012 06:31

Client ID: DFTPP

Instrument: HP18831.i

Sample Info: DFTPP;8270DFTPP1982;

Operator: jmg00346

Column phase: DB-5MS

Column diameter: 0.18

Data File: hg0810.d
Spectrum: Avg. Scans 260-262 (4.29), Background Scan 257
Location of Maximum: 198.00
Number of points: 259

m/z	Y	m/z	Y	m/z	Y	m/z	Y
87.00	579	158.00	474	226.00	429	333.00	178
88.00	308	159.00	338	227.00	6780	334.00	1365
89.00	57	160.00	795	228.00	965	335.00	248
91.00	1343	161.00	1316	229.00	1537	341.00	164
92.00	1127	162.00	406	230.00	213	346.00	350
93.00	6752	163.00	154	231.00	483	352.00	484
94.00	560	164.00	140	232.00	84	353.00	387
96.00	346	165.00	1093	233.00	61	354.00	526
98.00	5270	166.00	895	234.00	418	355.00	55
99.00	4324	167.00	5838	235.00	361	365.00	2524
100.00	438	168.00	2987	236.00	289	366.00	410
101.00	2849	169.00	361	237.00	379	370.00	64
102.00	81	170.00	209	239.00	252	371.00	72
103.00	829	171.00	256	240.00	215	372.00	1050
104.00	1538	172.00	480	241.00	304	373.00	205
105.00	1571	173.00	591	242.00	699	383.00	157
106.00	515	174.00	1253	243.00	656	390.00	81
107.00	20208	175.00	2476	244.00	10575	391.00	57
108.00	3221	176.00	626	245.00	1437	402.00	393
109.00	430	177.00	969	246.00	2035	403.00	516
110.00	34592	178.00	270	247.00	452	404.00	174
111.00	5414	179.00	3758	248.00	69	421.00	478
112.00	593	180.00	2828	249.00	295	422.00	375
113.00	229	181.00	1193	253.00	260	423.00	3087
115.00	168	182.00	236	254.00	567	424.00	613
116.00	1001	183.00	157	255.00	55808	441.00	7993
117.00	13941	184.00	355	256.00	7808	442.00	57000
118.00	1074	185.00	2246	257.00	604	443.00	11375
119.00	250	186.00	16078	258.00	3419	444.00	1123
120.00	187	187.00	4549	259.00	440		

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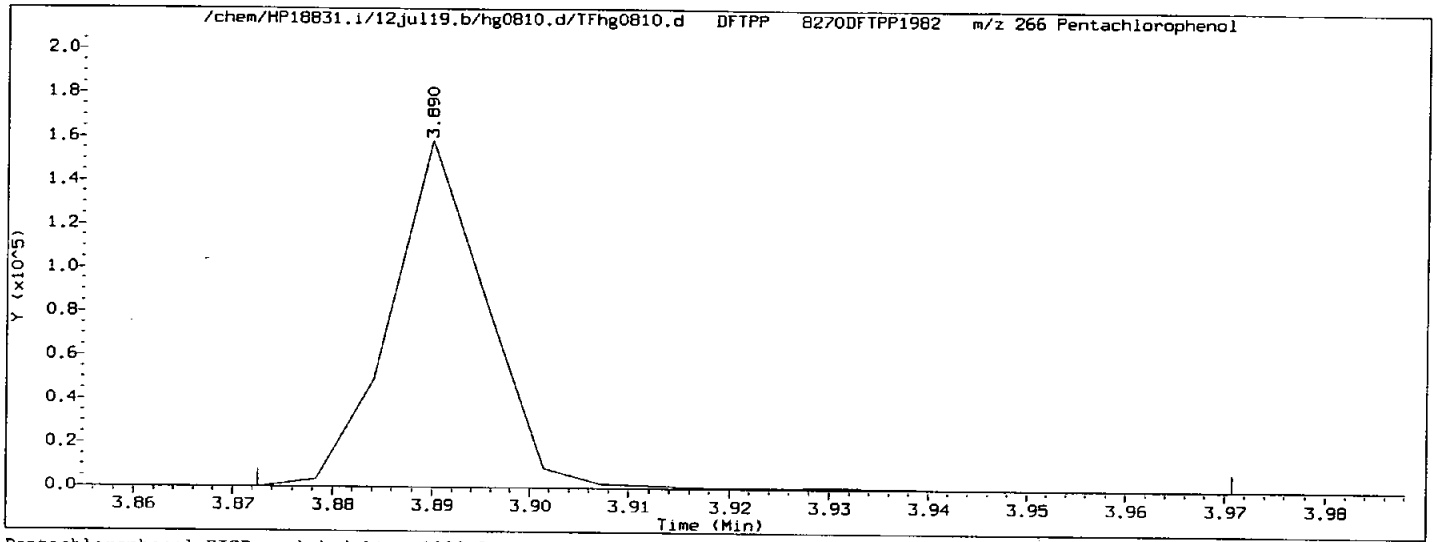
Target 3.5 esignature user ID: jmg00346

Assessment of GC Column Performance and Injection Port Inertness for

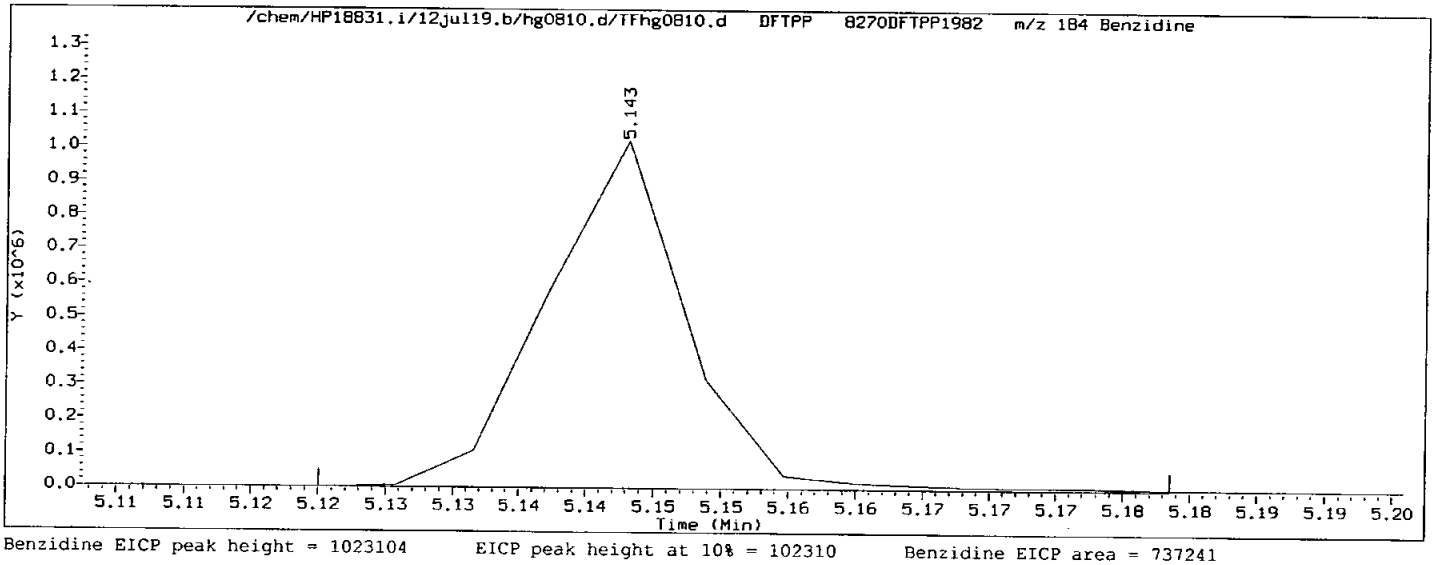
Instrument ID: HP18831.i Injection Date: 19-JUL-2012 06:31 Operator: jmg00346



Pentachlorophenol EICP peak height = 158848 EICP peak height at 10% = 15885 Pentachlorophenol EICP area = 107323

Pentachlorophenol EICP peak apex (min.) = 3.890
RT at 10% of front half of EICP (min.) = 3.880 'Front' peak width (min.) = 0.0099666667
RT at 10% of back half of EICP (min.) = 3.901 'Tailing' peak width (min.) = 0.0109833333

$$\text{PCP tailing factor} = \frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0109833333}{0.0099666667} = 1.102$$



Benzidine EICP peak height = 1023104 EICP peak height at 10% = 102310 Benzidine EICP area = 737241

Benzidine EICP peak apex (min.) = 5.143
RT at 10% of front half of EICP (min.) = 5.131 'Front' peak width (min.) = 0.0117833333
RT at 10% of back half of EICP (min.) = 5.153 'Tailing' peak width (min.) = 0.0101833333

$$\text{Benzidine tailing factor} = \frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0101833333}{0.0117833333} = 0.864$$

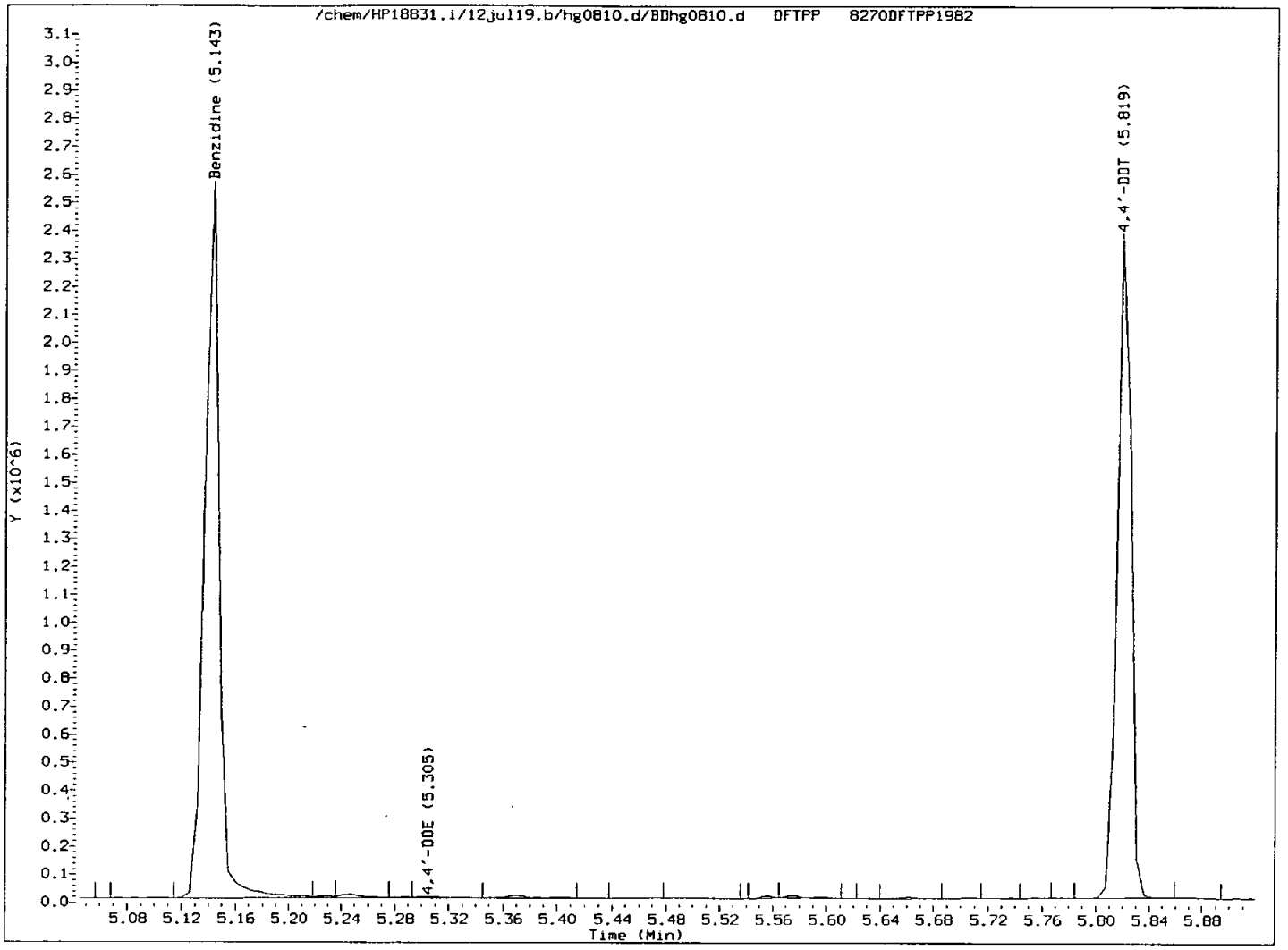
printed on 07/19/2012 at 06:40

Digitally signed by Joseph M. Gambler on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346

ASX73 0050

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP18831.i Injection Date: 19-JUL-2012 06:31 Operator: jmg00346



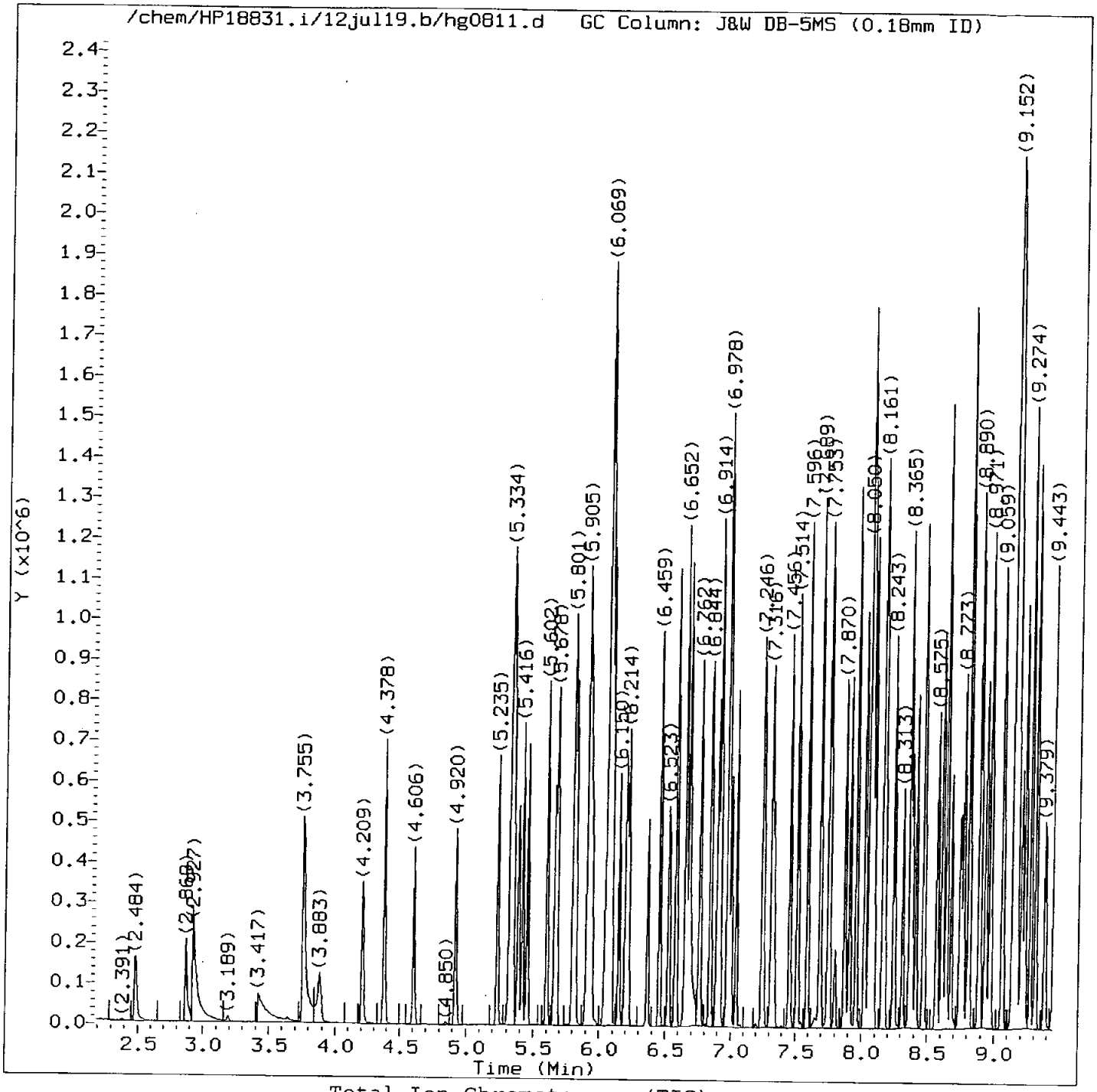
$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{8125 + 0}{8125 + 0 + 1684240} \times 100 = 0.5$$

printed on 07/19/2012 at 07:02

Digitally signed by Joseph M. Gambler on 07/19/2012 at 07:13:
Target 3.5 esignature user ID: jmg00346

ASX73 0059



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811.d
Injection date and time: 19-JUL-2012 06:46

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 07:12

Sublist used: newall1

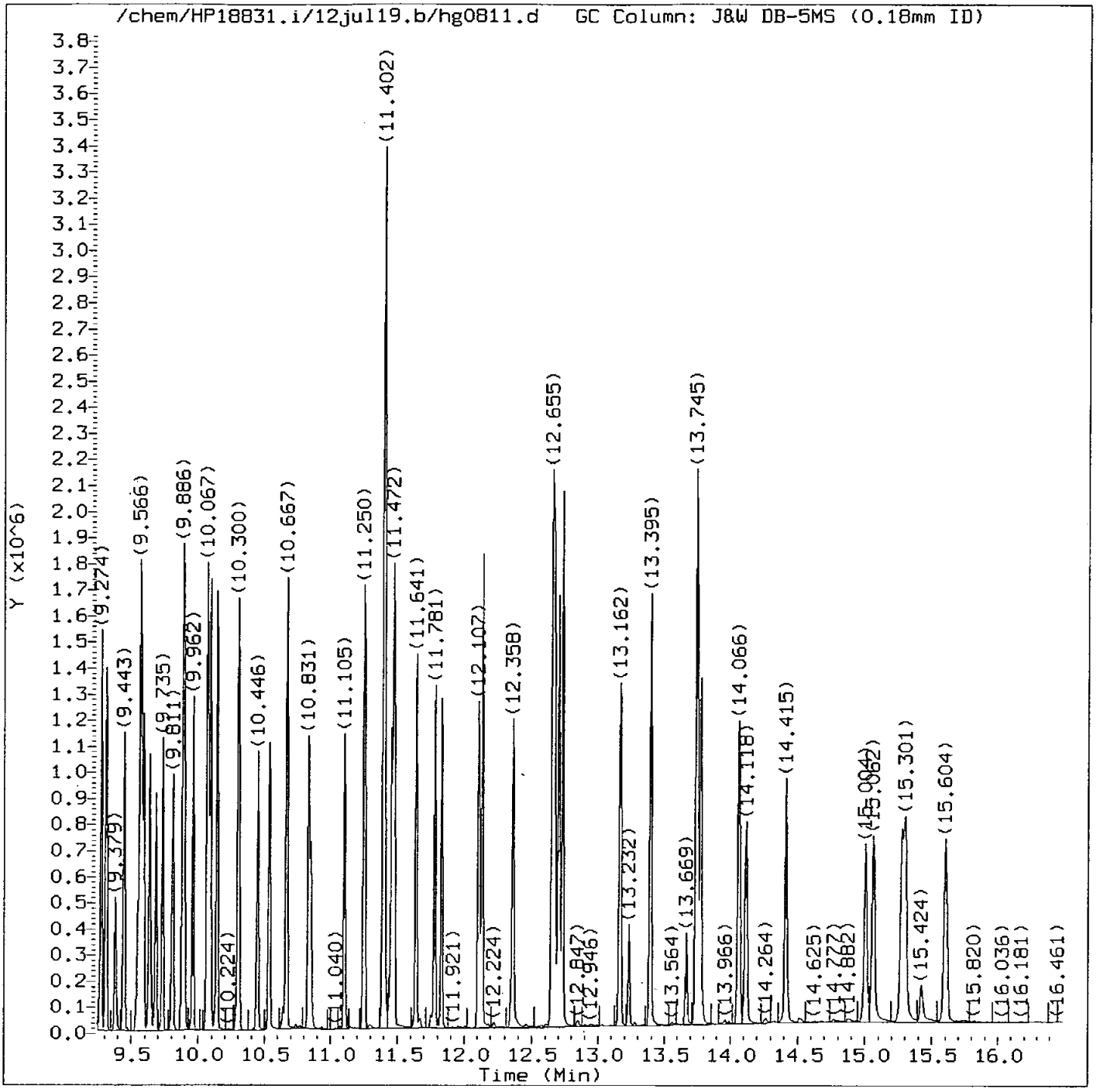
Date, time and analyst ID of latest file update: 19-Jul-2012 07:12 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346

ASX73 0060



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811.d
Injection date and time: 19-JUL-2012 06:46

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 07:12

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 07:12 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346

ASX73 0861

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811.d
Injection date and time: 19-JUL-2012 06:46

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 07:12

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 07:12 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.484	88	86952	28.708
2) N-Nitrosodimethylamine	(1)	2.869	74	152029	30.494
3) Pyridine	(1)	2.921	79	248690M	29.917
5) 2-Picoline	(1)	3.755	93	243914	28.437
6) N-Nitrosomethylethylamine	(1)	3.883	88	114280	29.046
7) Methyl methanesulfonate	(1)	4.209	80	130048	28.973
9)$2-Fluorophenol	(1)	4.378	112	189094	28.841
10) N-Nitrosodiethylamine	(1)	4.606	102	109555	29.194
11) Ethyl methanesulfonate	(1)	4.920	109	104593	29.209
12) Benzaldehyde	(1)	5.235	77	153136	24.266
14)$Phenol-d5	(1)	5.317	99	276162	29.740
15)$Phenol-d6	(1)	5.317	99	276162	29.740
16) Phenol	(1)	5.334	94	327166	29.797
13) Aniline	(1)	5.340	93	369124	29.250
18) bis(2-Chloroethyl)ether	(1)	5.416	93	234538	28.702
19) 2-Chlorophenol	(1)	5.451	128	179469	29.512
20) 1,3-Dichlorobenzene	(1)	5.602	146	177402	28.919
21)*1,4-Dichlorobenzene-d4	(1)	5.661	152	77810	20.000
22) 1,4-Dichlorobenzene	(1)	5.678	146	180426	28.806
24) Benzyl alcohol	(1)	5.801	108	161098	30.542
25) 1,2-Dichlorobenzene	(1)	5.818	146	169585	29.090
206) Indene	(1)	5.905	115	313011	28.352
26) 2-Methylphenol	(1)	5.923	108	209250	29.840
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.940	45	255213	26.671
28) bis(2-Chloroisopropyl)ether	(1)	5.940	45	255213	26.671
29) N-Nitrosopyrrolidine	(1)	6.040	100	121435	31.868
30) Acetophenone	(1)	6.057	105	313586	29.350
31) N-Nitroso-di-n-propylamine	(1)	6.069	70	182546	28.292
33) 4-Methylphenol	(1)	6.069	108	240706	31.688
32) N-Nitrosomorpholine	(1)	6.080	56	131344	28.868
34) o-Toluidine	(1)	6.092	106	337367	29.903
37) Hexachloroethane	(1)	6.150	117	80007	28.887
38)$Nitrobenzene-d5	(2)	6.197	82	254456	28.679
39) Nitrobenzene	(2)	6.214	77	269428	29.169
40) N-Nitrosopiperidine	(2)	6.366	114	106352	30.332
41) Isophorone	(2)	6.459	82	497819	28.703
42) 2-Nitrophenol	(2)	6.523	139	97943	30.015
44) 2,4-Dimethylphenol	(2)	6.582	107	231001	30.108
45) O,O,O-triethylphosphorothioate	(2)	6.652	198	84818	28.029
46) bis(2-Chloroethoxy)methane	(2)	6.675	93	279669	26.785

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346

ASX73 0062

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811.d
Injection date and time: 19-JUL-2012 06:46

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 07:12

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 07:12 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
47) Benzoic acid	(2)	6.692	105	247478	41.837
49) 2,4-Dichlorophenol	(2)	6.762	162	147288	29.932
50) 1,2,4-Trichlorobenzene	(2)	6.844	180	158802	29.200
52) *Naphthalene-d8	(2)	6.896	136	322314	20.000
53) Naphthalene	(2)	6.914	128	527657	28.734
56) 4-Chloroaniline	(2)	6.972	127	230881	30.950
57) 2,6-Dichlorophenol	(2)	6.978	162	143669	30.365
58) Hexachloropropene	(2)	7.001	213	94647	29.621
60) Hexachlorobutadiene	(2)	7.042	225	80319	28.538
194) Quinoline	(2)	7.246	129	369048	30.794
64) N-Nitrosodi-n-butylamine	(2)	7.316	84	236586	37.132
63) Caprolactam	(2)	7.333	113	91275	35.111
68) 4-Chloro-3-methylphenol	(2)	7.456	107	214770	31.849
69) Safrole	(2)	7.514	162	140735	29.985
70) 2-Methylnaphthalene	(2)	7.596	142	336654	30.020
71) 1-Methylnaphthalene	(2)	7.689	142	327617	29.864
72) Hexachlorocyclopentadiene	(3)	7.753	237	69848	28.498
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.759	216	152569	28.772
74) cis-Isosafrole	(3)	7.800	162	25481	3.061
75) 2,4,6-Trichlorophenol	(3)	7.876	196	113076	30.588
77) 2,4,5-Trichlorophenol	(3)	7.910	196	122793	30.059
78) $2-Fluorobiphenyl	(3)	7.957	172	393214	29.637
79) trans-Isosafrole	(3)	8.021	162	149130	25.825
80) Isosafrole	(3)	8.021	162	149130	29.017
83) 1,1'-Biphenyl	(3)	8.056	154	468436	29.683
84) 2-Chloronaphthalene	(3)	8.068	162	333357	29.072
85) 1-Chloronaphthalene	(3)	8.091	162	319213	28.022
88) Diphenyl ether	(3)	8.161	170	243312	28.963
89) 2-Nitroaniline	(3)	8.173	138	128555	32.464
90) 1,4-Naphthoquinone	(3)	8.243	158	148804	30.737
91) 1,4-Dinitrobenzene	(3)	8.313	168	68963	31.908
92) Dimethylphthalate	(3)	8.365	163	406230	30.239
93) 1,3-Dinitrobenzene	(3)	8.383	168	81115	31.948
94) 2,6-Dinitrotoluene	(3)	8.418	165	96233	31.679
95) Acenaphthylene	(3)	8.470	152	520776	29.921
97) 3-Nitroaniline	(3)	8.575	138	115354	33.239
98) *Acenaphthene-d10	(3)	8.610	164	198876	20.000
99) Acenaphthene	(3)	8.645	153	352766	29.599
100) 2,4-Dinitrophenol	(3)	8.680	184	83639	45.189
103) 4-Nitrophenol	(3)	8.750	109	85916	35.779

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346

ASX73 0863

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811.d
Injection date and time: 19-JUL-2012 06:46

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 07:12

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 07:12 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.773	250	125687	29.457
105) 2,4-Dinitrotoluene	(3)	8.808	165	127476	32.590
104) Dibenzofuran	(3)	8.814	168	507583	30.025
106) 1-Naphthylamine	(3)	8.890	143	396572	32.654
107) 2,3,4,6-Tetrachlorophenol	(3)	8.936	232	98286	33.710
108) 2-Naphthylamine	(3)	8.971	143	396841	33.101
109) Diethylphthalate	(3)	9.059	149	422982	30.436
110) Thionazin	(3)	9.140	107	82992	29.063
111) Fluorene	(3)	9.146	166	426928	31.595
112) 4-Chlorophenyl-phenylether	(3)	9.158	204	195262	29.955
113) 5-Nitro-o-toluidine	(3)	9.164	152	129248	33.365
114) 4-Nitroaniline	(3)	9.175	138	122648	35.058
115) 4,6-Dinitro-2-methylphenol	(4)	9.204	198	78934	29.994
117) N-Nitrosodiphenylamine	(4)	9.274	169	368461	28.384
202) NDPA as diphenylamine	(4)	9.274	169	368461	28.130
118) 1,2-Diphenylhydrazine	(4)	9.309	77	594616	26.302
119)$2,4,6-Tribromophenol	(3)	9.385	330	42931	33.776
120) Tetraethyldithiopyrophosphate	(4)	9.443	97	83646	26.390
121) 1,3,5-Trinitrobenzene	(4)	9.548	213	51358	31.053
122) Diallate (peak 1)	(4)	9.560	86	203627	19.435
123) Phorate	(4)	9.572	75	383880	29.031
124) Phenacetin	(4)	9.589	108	287592	31.472
125) 4-Bromophenyl-phenylether	(4)	9.636	248	103930	28.092
126) Diallate (peak 2)	(4)	9.647	86	42721	6.658
127) Hexachlorobenzene	(4)	9.682	284	101838	28.082
128) Dimethoate	(4)	9.735	87	253806	34.211
130) Atrazine	(4)	9.811	200	99239	28.541
131) Pentachlorophenol	(4)	9.881	266	70789	30.374
133) 4-Aminobiphenyl	(4)	9.886	169	374276	30.651
132) Pentachloronitrobenzene	(4)	9.892	237	48371	29.073
134) Pronamide	(4)	9.962	173	193096	30.389
135)*Phenanthrene-d10	(4)	10.067	188	367161	20.000
136) Dinoseb	(4)	10.073	211	112004	29.751
137) Phenanthrene	(4)	10.090	178	623738	29.485
138) Anthracene	(4)	10.137	178	638596	30.550
140) Carbazole	(4)	10.300	167	624110	31.314
141) Methyl parathion	(4)	10.446	109	173228	32.430
142) Di-n-butylphthalate	(4)	10.667	149	754493	29.771
143) Parathion	(4)	10.831	109	108013	31.675
144) 4-Nitroquinoline-1-oxide	(4)	10.848	190	58944	31.364

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346

ASX73 8864

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811.d
Injection date and time: 19-JUL-2012 06:46

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 07:12

Sublist used: newall1

Date, time and analyst ID of latest file update: 19-Jul-2012 07:12 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.105	193	71802	29.474
147) Fluoranthene	(4)	11.250	202	694789	33.113
152) Benzidine	(5)	11.402	184	1457347	100.262
167)*Pyrene-d10	(5)	11.454	212	432636	20.000
154) Pyrene	(5)	11.472	202	716775	28.867
156)$Terphenyl-d14	(5)	11.641	244	424447	29.301
158) p-Dimethylaminoazobenzene	(5)	11.781	225	142272	32.382
159) Chlorobenzilate	(5)	11.827	139	221240	31.432
160) 3,3'-Dimethylbenzidine	(5)	12.107	212	435480	33.955
161) Butylbenzylphthalate	(5)	12.136	149	337577	31.333
162) 2-Acetylaminofluorene	(5)	12.358	181	293042	37.502
164) 3,3'-Dichlorobenzidine	(5)	12.649	252	224721	34.816
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.655	231	115417	35.260
166) Benzo(a)anthracene	(5)	12.667	228	601698	33.018
168) Chrysene	(5)	12.702	228	601163	32.729
169) bis(2-Ethylhexyl)phthalate	(5)	12.731	149	453541	32.938
189) 6-Methylchrysene	(5)	13.162	242	411808	33.782
170) Di-n-octylphthalate	(6)	13.395	149	778583	28.889
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.745	256	247439	28.777
172) Benzo(b)fluoranthene	(6)	13.751	252	522161	27.454
173) Benzo(k)fluoranthene	(6)	13.780	252	562961	29.905
174) Benzo(a)pyrene	(6)	14.066	252	521228	30.561
175)*Perylene-d12	(6)	14.118	264	300578	20.000
176) 3-Methylcholanthrene	(6)	14.415	268	263335	31.531
190) Dibenz(a,h)acridine	(6)	15.004	279	380995	31.632
191) Dibenz(a,j)acridine	(6)	15.062	279	396696	30.420
177) Indeno(1,2,3-cd)pyrene	(6)	15.278	276	533243	32.346
178) Dibenz(a,h)anthracene	(6)	15.301	278	440173	32.502
179) Benzo(g,h,i)perylene	(6)	15.604	276	450335	32.352
129) Diallate TRANS/CIS	(4)			246348	26.036

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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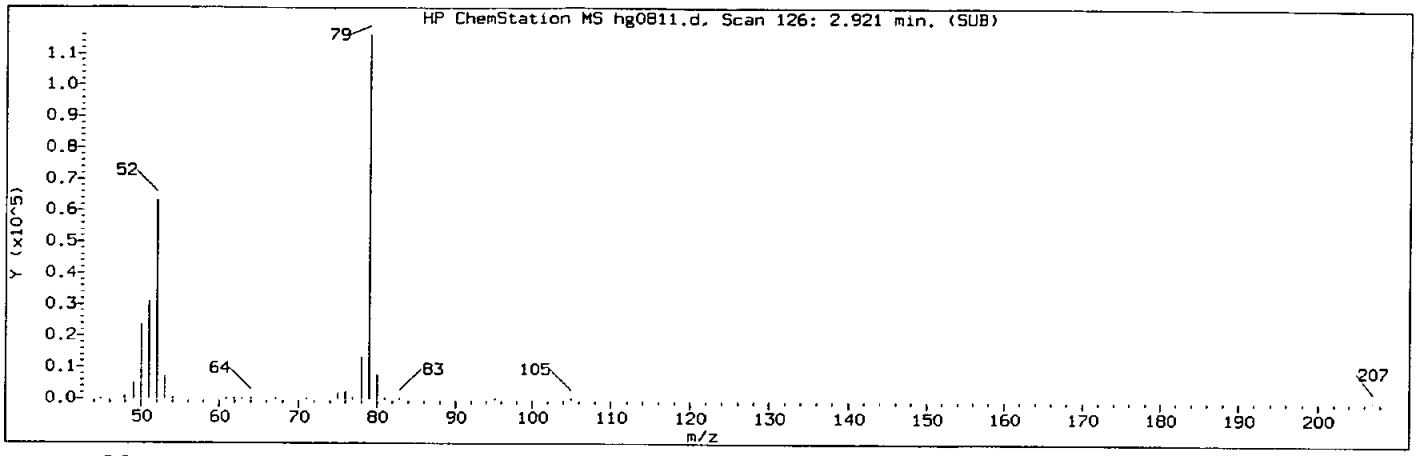
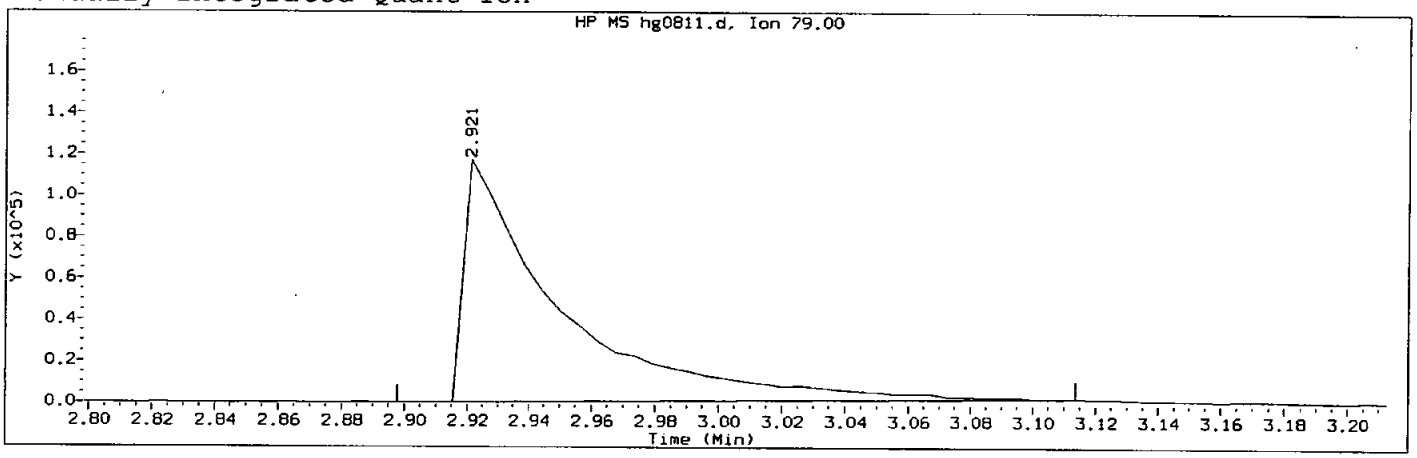
on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346

ASX73 0865

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul19.b/hg0811.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 06:46 Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: newall1
Calibration date and time: 19-JUL-2012 07:12
Date, time and analyst ID of latest file update: 19-Jul-2012 07:12 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1982

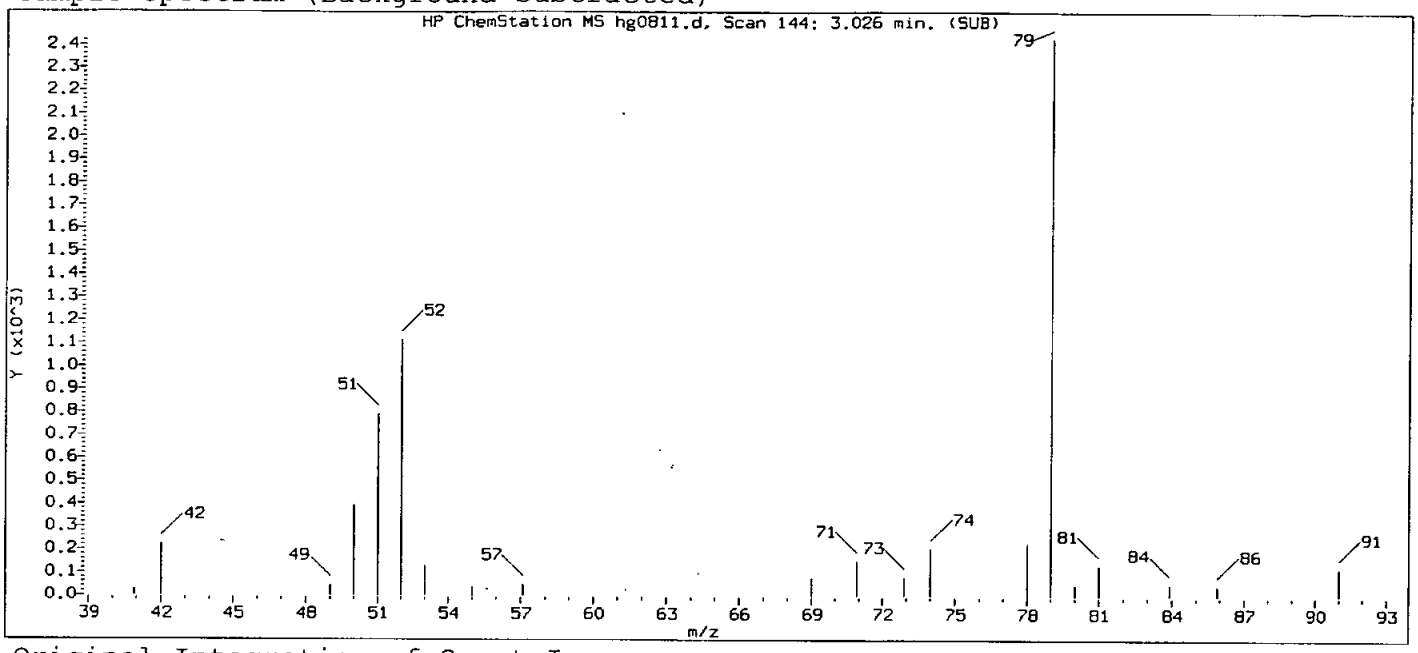
Compound Number	: 3		
Compound Name	: Pyridine		
Scan Number	: 126		
Retention Time (minutes)	: 2.921		
Quant Ion	: 79.00		
Area (flag)	: 248690M		
On-Column Amount (ng/ul)	: 29.9168		
Integration start scan	: 121	Integration stop scan:	158
Y at integration start	: 0	Y at integration end:	2445

Reason for manual integration: improper integration

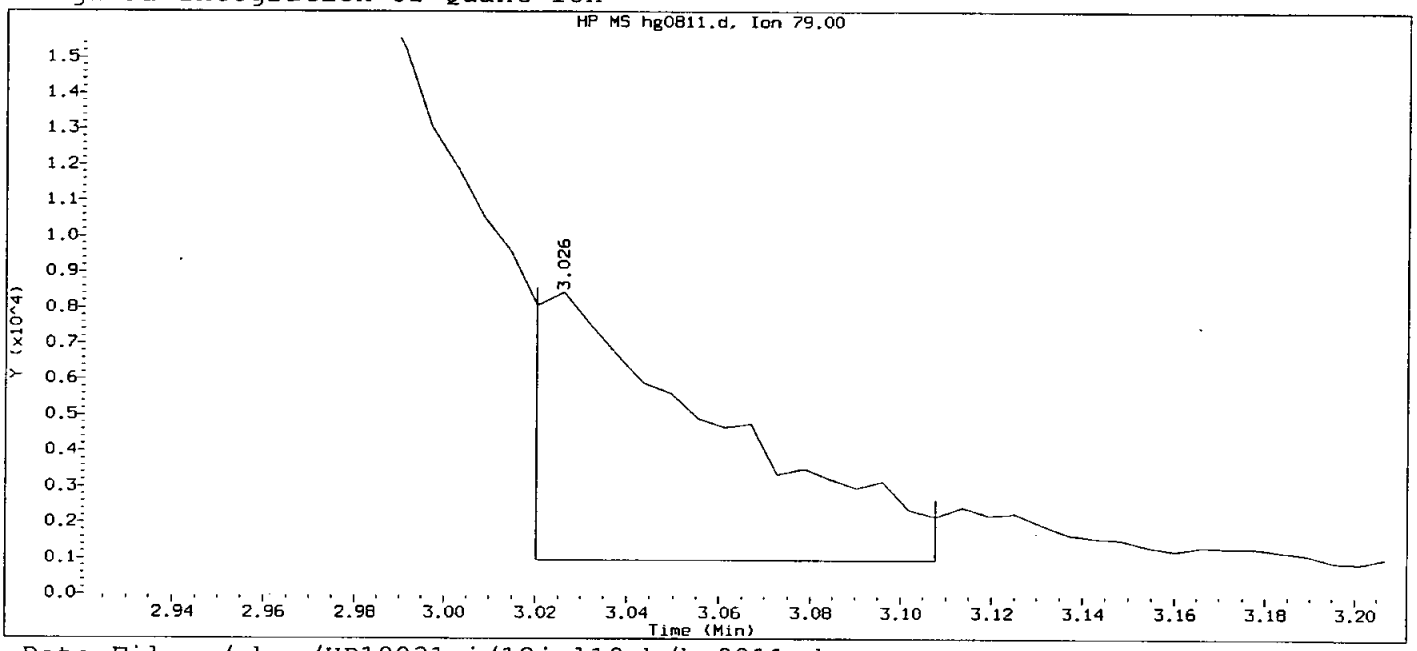
Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/19/2012 at 07:13. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Matthew E. Barton on 07/20/2012 at 11:11
Parallax ID: reb00745

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



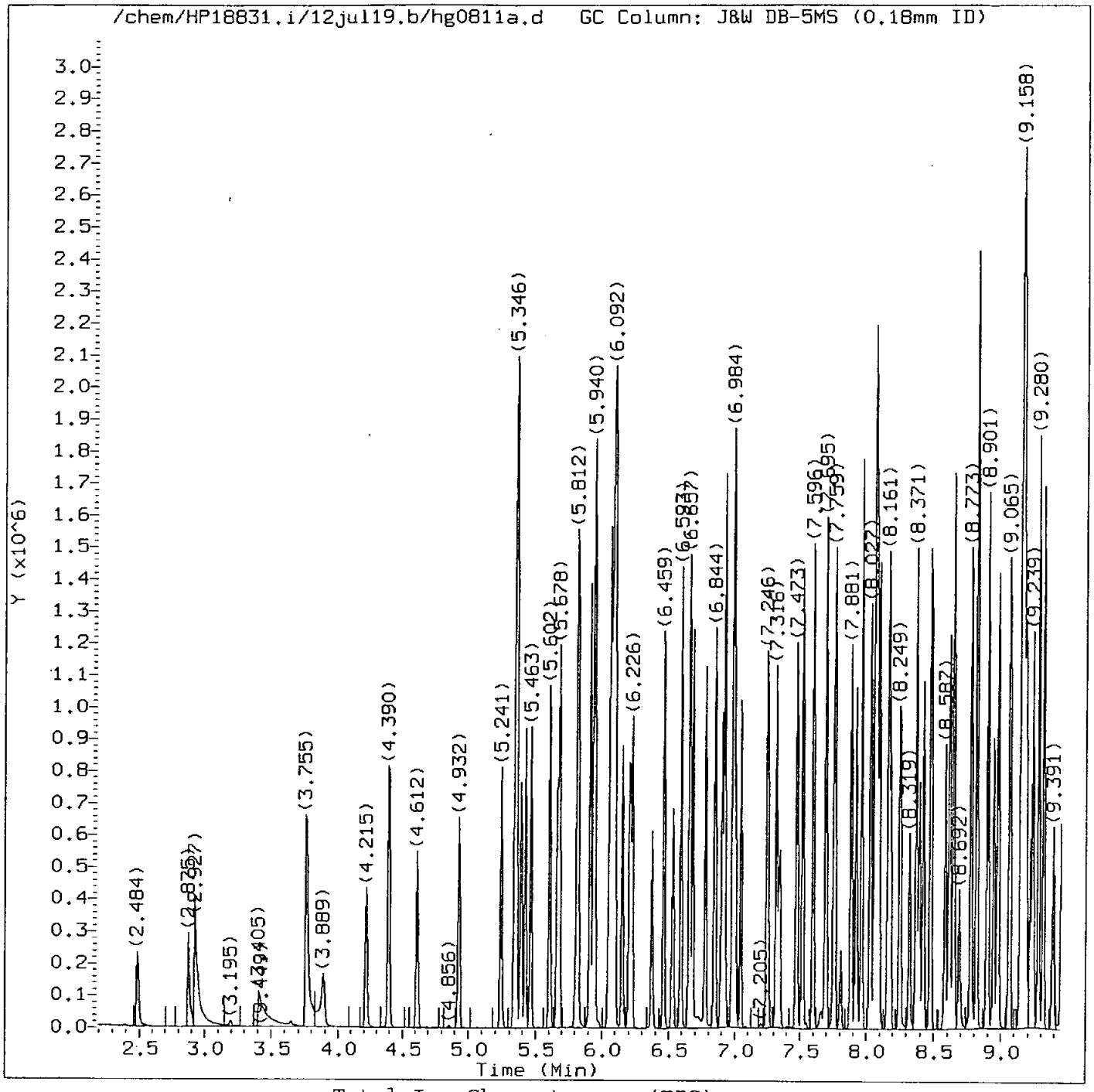
Data File: /chem/HP18831.i/12jul19.b/hg0811.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 06:46 Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: newall1
Calibration date and time: 19-JUL-2012 07:03
Date, time and analyst ID of latest file update: 19-Jul-2012 07:03 Automation

Sample Name: SSTD030 Lab Sample ID: STD1982

Compound Number	: 3		
Compound Name	: Pyridine		
Scan Number	: 144		
Retention Time (minutes)	: 3.026		
Quant Ion	: 79.00		
Area	: 20219		
On-column Amount (ng/ul)	: 2.4323		
Integration start scan	: 142	Integration stop scan:	157
Y at integration start	: 966	Y at integration end:	966

Digitally signed by Joseph M. Gambler on 07/19/2012 at 07:13.
Target 3.5 esignature user ID: jmg00346



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811a.d
Injection date and time: 19-JUL-2012 17:46

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 20-JUL-2012 04:10

Sublist used: newall1

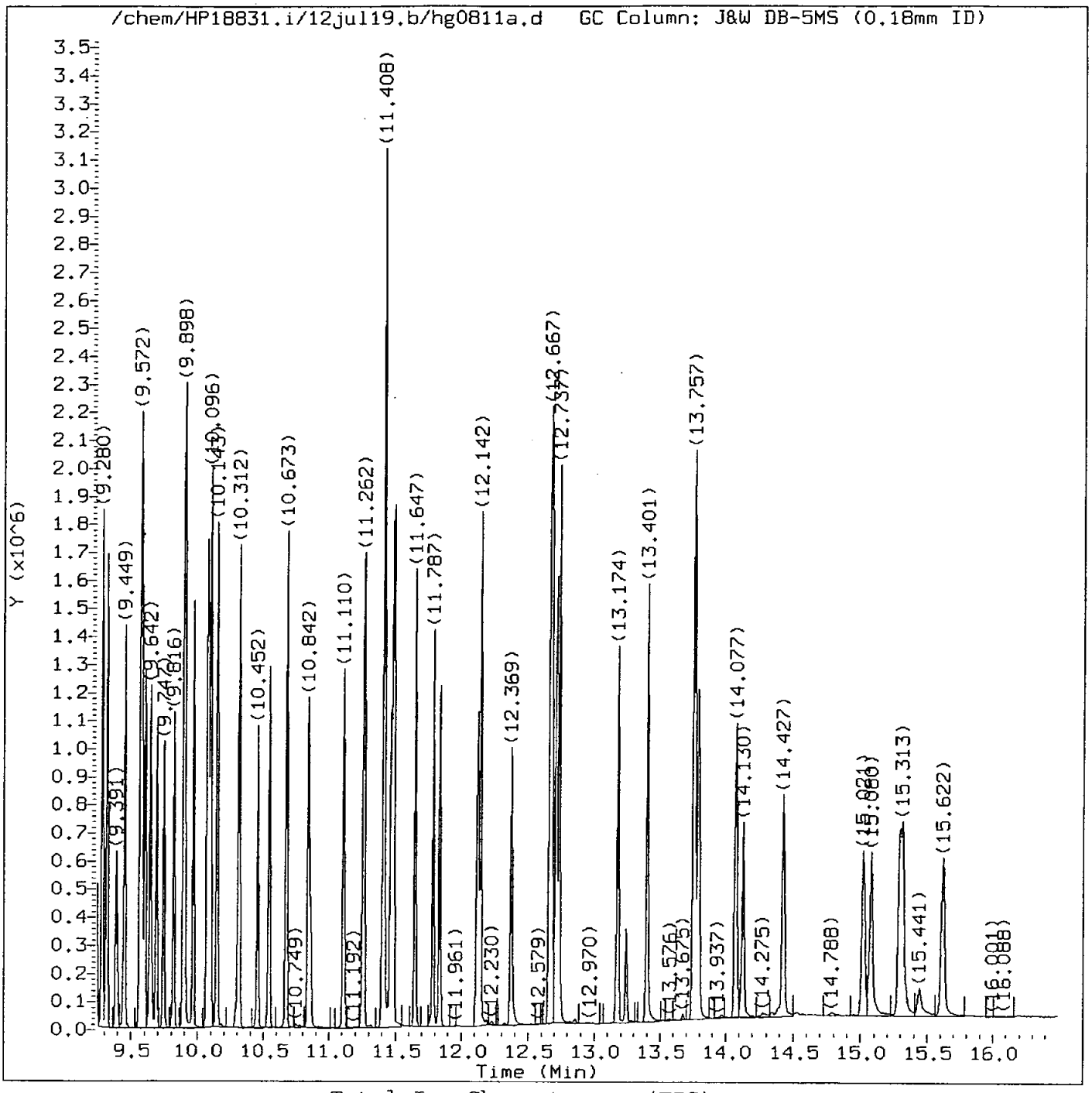
Date, time and analyst ID of latest file update: 20-Jul-2012 06:58 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/20/2012 at 06:58.
Target 3.5 esignature user ID: jmg00346

ASX73 8868



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811a.d
Injection date and time: 19-JUL-2012 17:46

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 20-JUL-2012 04:10

Sublist used: newall1

Date, time and analyst ID of latest file update: 20-Jul-2012 06:58 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Digitally signed by Joseph M. Gambler
on 07/20/2012 at 06:58.
Target 3.5 esignature user ID: jmg00346

ASX73 0869

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811a.d
Injection date and time: 19-JUL-2012 17:46

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 20-JUL-2012 04:10

Sublist used: newall1

Date, time and analyst ID of latest file update: 20-Jul-2012 06:58 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	2.484	88	113653	28.488
2) N-Nitrosodimethylamine	(1)	2.875	74	187171	28.502
3) Pyridine	(1)	2.921	79	318659	29.103
5) 2-Picoline	(1)	3.755	93	318707	28.209
6) N-Nitrosomethylethylamine	(1)	3.889	88	148056	28.569
7) Methyl methanesulfonate	(1)	4.215	80	167043	28.253
9)$2-Fluorophenol	(1)	4.396	112	250329	28.987
10) N-Nitrosodiethylamine	(1)	4.612	102	143355	29.002
11) Ethyl methanesulfonate	(1)	4.932	109	134411	28.497
12) Benzaldehyde	(1)	5.241	77	198025	23.823
15)$Phenol-d6	(1)	5.340	99	348192	28.468
14)$Phenol-d5	(1)	5.340	99	348192	28.468
16) Phenol	(1)	5.352	94	418570	28.942
13) Aniline	(1)	5.352	93	478281	28.773
18) bis(2-Chloroethyl)ether	(1)	5.422	93	314335	29.204
19) 2-Chlorophenol	(1)	5.463	128	235040	29.343
20) 1,3-Dichlorobenzene	(1)	5.602	146	236002	29.208
21)*1,4-Dichlorobenzene-d4	(1)	5.661	152	102490	20.000
22) 1,4-Dichlorobenzene	(1)	5.678	146	243637	29.532
24) Benzyl alcohol	(1)	5.812	108	200240	28.822
25) 1,2-Dichlorobenzene	(1)	5.824	146	227928	29.683
206) Indene	(1)	5.911	115	411253	28.280
26) 2-Methylphenol	(1)	5.940	108	266912	28.898
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.946	45	336713	26.715
28) bis(2-Chloroisopropyl)ether	(1)	5.946	45	336713	26.715
29) N-Nitrosopyrrolidine	(1)	6.051	100	149306	29.747
30) Acetophenone	(1)	6.063	105	413348	29.372
31) N-Nitroso-di-n-propylamine	(1)	6.075	70	242512	28.535
33) 4-Methylphenol	(1)	6.086	108	307755	30.759
32) N-Nitrosomorpholine	(1)	6.092	56	161593	26.964
34) o-Toluidine	(1)	6.098	106	431271	29.022
37) Hexachloroethane	(1)	6.150	117	105670	28.966
38)$Nitrobenzene-d5	(2)	6.203	82	329232	28.167
39) Nitrobenzene	(2)	6.226	77	347837	28.585
40) N-Nitrosopiperidine	(2)	6.372	114	133416	28.883
41) Isophorone	(2)	6.459	82	638722	27.954
42) 2-Nitrophenol	(2)	6.529	139	125445	29.181
44) 2,4-Dimethylphenol	(2)	6.593	107	290892	28.780
45) O,O,O-triethylphosphorothioate	(2)	6.657	198	113413	28.449
47) Benzoic acid	(2)	6.663	105	53338	6.844

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/20/2012 at 06:58.
Target 3.5 esignature user ID: jmg00346

ASX73 0870

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811a.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 17:46 Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: newall1
Calibration date and time: 20-JUL-2012 04:10
Date, time and analyst ID of latest file update: 20-Jul-2012 06:58 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
46) bis(2-Chloroethoxy)methane	(2)	6.681	93	366622	26.653
49) 2,4-Dichlorophenol	(2)	6.774	162	188440	29.069
50) 1,2,4-Trichlorobenzene	(2)	6.844	180	210352	29.360
52) *Naphthalene-d8	(2)	6.902	136	424618	20.000
53) Naphthalene	(2)	6.920	128	689188	28.488
56) 4-Chloroaniline	(2)	6.984	127	290004	29.509
57) 2,6-Dichlorophenol	(2)	6.990	162	183175	29.387
58) Hexachloropropene	(2)	7.007	213	120363	28.593
60) Hexachlorobutadiene	(2)	7.048	225	107433	28.975
194) Quinoline	(2)	7.246	129	451397	28.591
64) N-Nitrosodi-n-butylamine	(2)	7.316	84	232432	26.270
63) Caprolactam	(2)	7.345	113	103361	30.181
68) 4-Chloro-3-methylphenol	(2)	7.473	107	255461	28.756
69) Safrole	(2)	7.520	162	181293	29.320
70) 2-Methylnaphthalene	(2)	7.602	142	437165	29.591
71) 1-Methylnaphthalene	(2)	7.695	142	416842	28.843
72) Hexachlorocyclopentadiene	(3)	7.753	237	80546	26.942
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.759	216	197998	30.612
74) cis-Isosafrole	(3)	7.806	162	31635	3.115
75) 2,4,6-Trichlorophenol	(3)	7.881	196	136446	30.260
77) 2,4,5-Trichlorophenol	(3)	7.922	196	145146	29.130
78) $2-Fluorobiphenyl	(3)	7.963	172	476618	29.451
79) trans-Isosafrole	(3)	8.027	162	183224	26.013
80) Isosafrole	(3)	8.027	162	183224	29.228
83) 1,1'-Biphenyl	(3)	8.062	154	588265	30.560
84) 2-Chloronaphthalene	(3)	8.074	162	436843	31.234
85) 1-Chloronaphthalene	(3)	8.097	162	388919	27.990
88) Diphenyl ether	(3)	8.161	170	305872	29.851
89) 2-Nitroaniline	(3)	8.184	138	152088	31.487
90) 1,4-Naphthoquinone	(3)	8.254	158	168772	28.581
91) 1,4-Dinitrobenzene	(3)	8.324	168	76668	29.082
92) Dimethylphthalate	(3)	8.371	163	489770	29.890
93) 1,3-Dinitrobenzene	(3)	8.394	168	93747	30.271
94) 2,6-Dinitrotoluene	(3)	8.423	165	112708	30.418
95) Acenaphthylene	(3)	8.476	152	642136	30.247
97) 3-Nitroaniline	(3)	8.587	138	130835	30.908
98) *Acenaphthene-d10	(3)	8.616	164	242578	20.000
99) Acenaphthene	(3)	8.651	153	430692	29.627
100) 2,4-Dinitrophenol	(3)	8.692	184	65252	28.904
103) 4-Nitrophenol	(3)	8.773	109	81426	27.801

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/20/2012 at 06:58.
Target 3.5 esignature user ID: jmg00346

ASX73 8871

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811a.d
Injection date and time: 19-JUL-2012 17:46

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 20-JUL-2012 04:10

Sublist used: newall1

Date, time and analyst ID of latest file update: 20-Jul-2012 06:58 jmg00346

Sample Name: SSTD030

Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
101) Pentachlorobenzene	(3)	8.779	250	155164	29.814
104) Dibenzofuran	(3)	8.820	168	615409	29.845
105) 2,4-Dinitrotoluene	(3)	8.820	165	143124	29.998
106) 1-Naphthylamine	(3)	8.901	143	451657	30.490
107) 2,3,4,6-Tetrachlorophenol	(3)	8.948	232	106637	29.985
108) 2-Naphthylamine	(3)	8.977	143	447820	30.624
109) Diethylphthalate	(3)	9.065	149	498399	29.402
110) Thionazin	(3)	9.146	107	98096	28.164
111) Fluorene	(3)	9.152	166	510823	30.993
112) 4-Chlorophenyl-phenylether	(3)	9.164	204	242482	30.498
113) 5-Nitro-o-toluidine	(3)	9.175	152	150598	31.873
114) 4-Nitroaniline	(3)	9.187	138	129838	30.427
115) 4,6-Dinitro-2-methylphenol	(4)	9.216	198	72950	24.651
117) N-Nitrosodiphenylamine	(4)	9.280	169	433825	29.719
202) NDPA as diphenylamine	(4)	9.280	169	433825	29.453
118) 1,2-Diphenylhydrazine	(4)	9.315	77	708757	27.881
119)$2,4,6-Tribromophenol	(3)	9.391	330	48934	31.563
120) Tetraethyldithiopyrophosphate	(4)	9.449	97	98785	27.716
122) Diallate (peak 1)	(4)	9.566	86	242305	20.567
121) 1,3,5-Trinitrobenzene	(4)	9.566	213	46935	25.910
123) Phorate	(4)	9.578	75	562911	37.340
124) Phenacetin	(4)	9.601	108	303227	29.509
125) 4-Bromophenyl-phenylether	(4)	9.642	248	121581	29.225
126) Diallate (peak 2)	(4)	9.653	86	51025	7.072
127) Hexachlorobenzene	(4)	9.688	284	119321	29.260
128) Dimethoate	(4)	9.747	87	250455	30.022
130) Atrazine	(4)	9.816	200	110261	28.201
131) Pentachlorophenol	(4)	9.892	266	56375	21.512
132) Pentachloronitrobenzene	(4)	9.898	237	53042	28.351
133) 4-Aminobiphenyl	(4)	9.898	169	405044	29.499
134) Pronamide	(4)	9.968	173	214417	30.009
135)*Phenanthrene-d10	(4)	10.073	188	412868	20.000
136) Dinoseb	(4)	10.079	211	95067	23.388
137) Phenanthrene	(4)	10.096	178	692016	29.091
138) Anthracene	(4)	10.149	178	712939	30.331
140) Carbazole	(4)	10.312	167	667960	29.804
141) Methyl parathion	(4)	10.452	109	180235	30.007
142) Di-n-butylphthalate	(4)	10.673	149	825271	28.959
143) Parathion	(4)	10.842	109	111072	28.966
144) 4-Nitroquinoline-1-oxide	(4)	10.860	190	33762	16.518

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/20/2012 at 06:58.
Target 3.5 esignature user ID: jmg00346

ASX73 0872

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0811a.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 17:46 Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: newall1
Calibration date and time: 20-JUL-2012 04:10
Date, time and analyst ID of latest file update: 20-Jul-2012 06:58 jmg00346

Sample Name: SSTD030 Lab Sample ID: STD1982

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
146) Isodrin	(4)	11.110	193	78327	28.593
147) Fluoranthene	(4)	11.262	202	710491	30.112
152) Benzidine	(5)	11.408	184	1292533	84.267
167)*Pyrene-d10	(5)	11.460	212	456542	20.000
154) Pyrene	(5)	11.483	202	758116	28.933
156)$Terphenyl-d14	(5)	11.647	244	453797	29.687
158) p-Dimethylaminoazobenzene	(5)	11.787	225	145068	31.290
159) Chlorobenzilate	(5)	11.833	139	222690	29.981
160) 3,3'-Dimethylbenzidine	(5)	12.119	212	388378	28.697
161) Butylbenzylphthalate	(5)	12.142	149	342746	30.147
162) 2-Acetylaminofluorene	(5)	12.369	181	255475	30.982
164) 3,3'-Dichlorobenzidine	(5)	12.661	252	206621	30.336
165) 4,4'-Methylenebis(2-Chloroanil	(5)	12.667	231	103951	30.095
166) Benzo(a)anthracene	(5)	12.673	228	598140	31.104
168) Chrysene	(5)	12.713	228	581598	30.006
169) bis(2-Ethylhexyl)phthalate	(5)	12.737	149	443368	30.513
189) 6-Methylchrysene	(5)	13.174	242	388262	30.183
170) Di-n-octylphthalate	(6)	13.401	149	719496	29.155
171) 7,12-Dimethylbenz[a]anthracene	(6)	13.757	256	230781	29.312
172) Benzo(b)fluoranthene	(6)	13.762	252	499893	28.704
173) Benzo(k)fluoranthene	(6)	13.792	252	519356	30.129
174) Benzo(a)pyrene	(6)	14.077	252	476746	30.528
175)*Perylene-d12	(6)	14.130	264	275232	20.000
176) 3-Methylcholanthrene	(6)	14.427	268	225563	29.496
190) Dibenz(a,h)acridine	(6)	15.021	279	325093	29.477
191) Dibenz(a,j)acridine	(6)	15.080	279	364778	30.549
177) Indeno(1,2,3-cd)pyrene	(6)	15.290	276	466323	30.892
178) Dibenz(a,h)anthracene	(6)	15.313	278	382490	30.844
179) Benzo(g,h,i)perylene	(6)	15.622	276	394199	30.927
129) Diallate TRANS/CIS	(4)			293330	27.639

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/20/2012 at 06:58.
Target 3.5 esignature user ID: jmg00346

ASX73 8873

Raw QC Data

ASX73 0074

SBLKLH1998 Lancaster Labs Analysis Summary for GC/MS Semivolatiles SBLKLH199

Data file: /chem/HP18831.i/12jul18a.b/hg0763.d
Data file Sample Info. Line: SBLKLH1998;SBLKLH199;
Date, time and analyst ID of latest file update: 19-Jul-2012 01:18 bkg00522

Injection date and time: **19-JUL-2012 00:45**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 1 GpcCleanup (No = 0, Yes = 1): 0 Unit Correction Factor (Uf): 1
Final Extract Volume (Vt): 1000 ul Volume Injected (Vi): 1 ul Sample Weight (Ws): 30 g

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	5.684	(0.000)	600	152	114460	(-3)	20.00	
52) Naphthalene-d8	6.920	(0.000)	812	136	461012	(-8)	20.00	
98) Acenaphthene-d10	8.633	(0.006)	1106	164	277488	(-6)	20.00	
135) Phenanthrene-d10	10.091	(0.006)	1356	188	510963	(3)	20.00	
167) Pyrene-d10	11.478	(0.006)	1594	212	574878	(4)	20.00	
175) Perylene-d12	14.147	(0.006)	2052	264	353401	(-2)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
9) 2-Fluorophenol	(1)	4.419	(-0.003)	112	1727591	179.126	90%		48 - 136
15) Phenol-d6	(1)	5.352	(-0.001)	99	2396286	175.429	88%		42 - 130
38) Nitrobenzene-d5	(2)	6.226	(0.000)	82	1099848	86.667	87%		45 - 123
78) 2-Fluorobiphenyl	(3)	7.986	(-0.001)	172	1608249	86.875	87%		56 - 121
119) 2,4,6-Tribromophenol	(3)	9.414	(-0.001)	330	366744	206.793	103%		28 - 139
156) Terphenyl-d14	(5)	11.670	(-0.001)	244	1940280	100.803	101%		36 - 135

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
16) Phenol	(1)				Not Detected					0.5
18) bis(2-Chloroethyl)ether	(1)				Not Detected					0.5
19) 2-Chlorophenol	(1)				Not Detected					0.5
20) 1,3-Dichlorobenzene	(1)				Not Detected					0.5
22) 1,4-Dichlorobenzene	(1)				Not Detected					0.5
25) 1,2-Dichlorobenzene	(1)				Not Detected					0.5
26) 2-Methylphenol	(1)				Not Detected					0.5
27) 2,2'-oxybis(1-Chloropropane)	(1)				Not Detected					0.5
31) N-Nitroso-di-n-propylamine	(1)				Not Detected					0.5
33) 4-Methylphenol	(1)				Not Detected					0.5
37) Hexachloroethane	(1)				Not Detected					1
39) Nitrobenzene	(2)				Not Detected					0.5
41) Isophorone	(2)				Not Detected					0.5
42) 2-Nitrophenol	(2)				Not Detected					0.5
44) 2,4-Dimethylphenol	(2)				Not Detected					0.5
46) bis(2-Chloroethoxy)methane	(2)				Not Detected					0.5
49) 2,4-Dichlorophenol	(2)				Not Detected					0.5
50) 1,2,4-Trichlorobenzene	(2)				Not Detected					0.5
53) Naphthalene	(2)				Not Detected					0.1
56) 4-Chloroaniline	(2)				Not Detected					0.5
60) Hexachlorobutadiene	(2)				Not Detected					0.5
68) 4-Chloro-3-methylphenol	(2)				Not Detected					0.5
70) 2-Methylnaphthalene	(2)				Not Detected					0.1
72) Hexachlorocyclopentadiene	(3)				Not Detected					5
75) 2,4,6-Trichlorophenol	(3)				Not Detected					0.5
77) 2,4,5-Trichlorophenol	(3)				Not Detected					0.5
84) 2-Chloronaphthalene	(3)				Not Detected					0.2

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A3X73 0875

SBLKLH1998 Lancaster Labs Analysis Summary for GC/MS Semivolatiles SBLKLH199

Data file: /chem/HP18831.i/12jul18a.b/hg0763.d
Data file Sample Info. Line: SBLKLH1998;SBLKLH199;
Date, time and analyst ID of latest file update: 19-Jul-2012 01:18 bkg00522

Injection date and time: **19-JUL-2012 00:45**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 1
Final Extract Volume (Vt): 1000 ul
GpcCleanup (No = 0, Yes = 1): 0
Volume Injected (Vi): 1 ul
Unit Correction Factor (Uf): 1
Sample Weight (Ws): 30 g

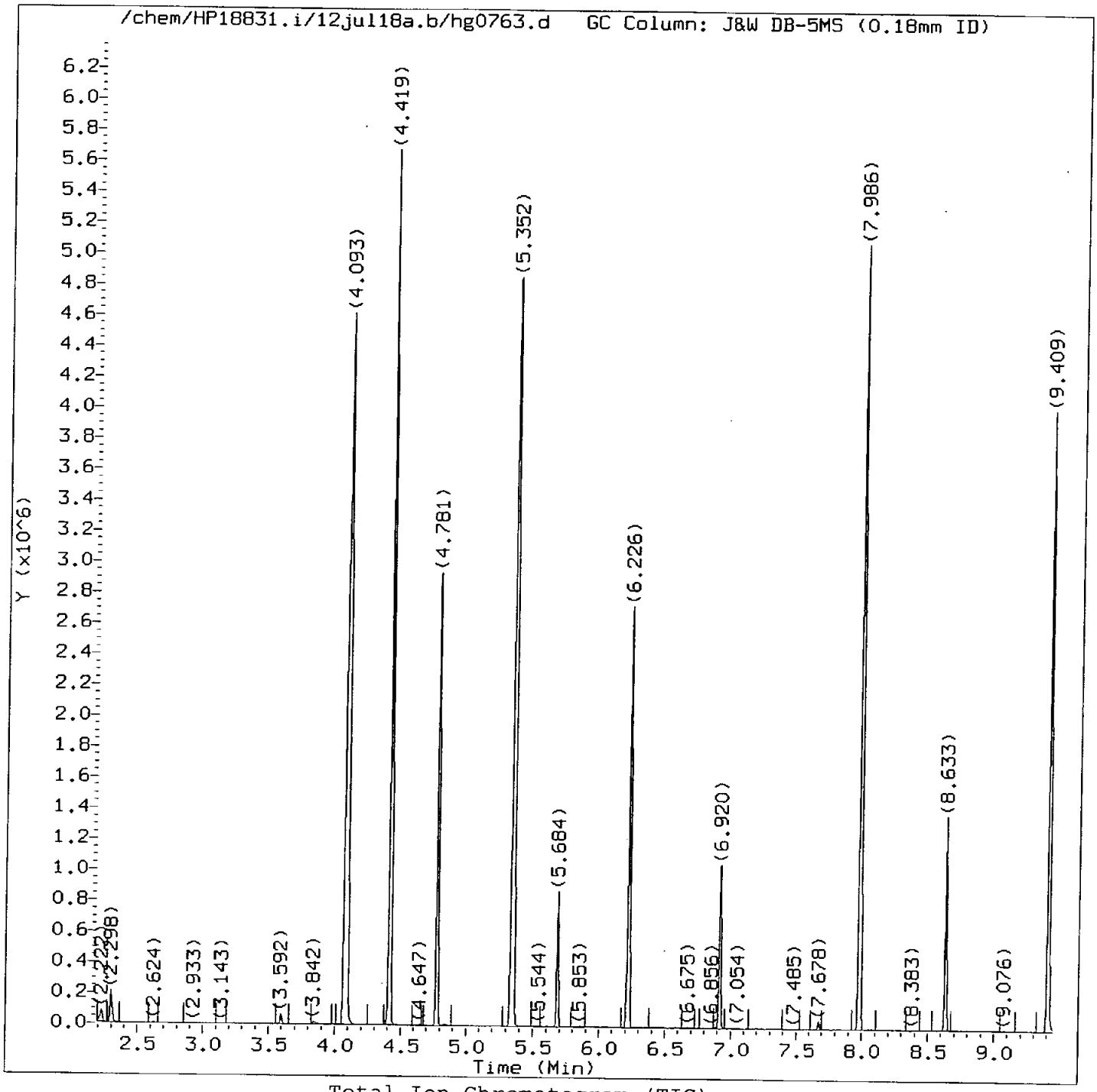
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
89) 2-Nitroaniline	(3)				Not Detected					0.5
92) Dimethylphthalate	(3)				Not Detected					2
94) 2,6-Dinitrotoluene	(3)				Not Detected					0.5
95) Acenaphthylene	(3)				Not Detected					0.1
97) 3-Nitroaniline	(3)				Not Detected					2
99) Acenaphthene	(3)				Not Detected					0.1
100) 2,4-Dinitrophenol	(3)				Not Detected					10
103) 4-Nitrophenol	(3)				Not Detected					5
104) Dibenzofuran	(3)				Not Detected					0.5
105) 2,4-Dinitrotoluene	(3)				Not Detected					2
109) Diethylphthalate	(3)				Not Detected					2
111) Fluorene	(3)				Not Detected					0.1
112) 4-Chlorophenyl-phenylether	(3)				Not Detected					0.5
114) 4-Nitroaniline	(3)				Not Detected					2
115) 4,6-Dinitro-2-methylphenol	(4)				Not Detected					5
117) N-Nitrosodiphenylamine	(4)				Not Detected					0.5
125) 4-Bromophenyl-phenylether	(4)				Not Detected					0.5
127) Hexachlorobenzene	(4)				Not Detected					0.1
131) Pentachlorophenol	(4)				Not Detected					1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)				Not Detected					0.1
140) Carbazole	(4)				Not Detected					0.5
142) Di-n-butylphthalate	(4)				Not Detected					2
147) Fluoranthene	(4)				Not Detected					0.1
154) Pyrene	(5)				Not Detected					0.1
161) Butylbenzylphthalate	(5)				Not Detected					2
164) 3,3'-Dichlorobenzidine	(5)				Not Detected					3
166) Benzo(a)anthracene	(5)				Not Detected					0.1
168) Chrysene	(5)				Not Detected					0.1
169) bis(2-Ethylhexyl)phthalate	(5)				Not Detected					2
170) Di-n-octylphthalate	(6)				Not Detected					2
172) Benzo(b)fluoranthene	(6)				Not Detected					0.1
173) Benzo(k)fluoranthene	(6)				Not Detected					0.1
174) Benzo(a)pyrene	(6)				Not Detected					0.1
177) Indeno(1,2,3-cd)pyrene	(6)				Not Detected					0.1
178) Dibenz(a,h)anthracene	(6)				Not Detected					0.1
179) Benzo(g,h,i)perylene	(6)				Not Detected					0.1

Total number of targets = 64

Digitally signed by Brian K. Graham on 07/19/2012 at 01:18. Target 3.5 esignature user ID: bkg00522

Secondary review performed and digitally signed by Irene L. Dodd on 07/19/2012 at 13:59. Parallax ID: ild00415

ASX73 0076



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0763.d
Injection date and time: 19-JUL-2012 00:45

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

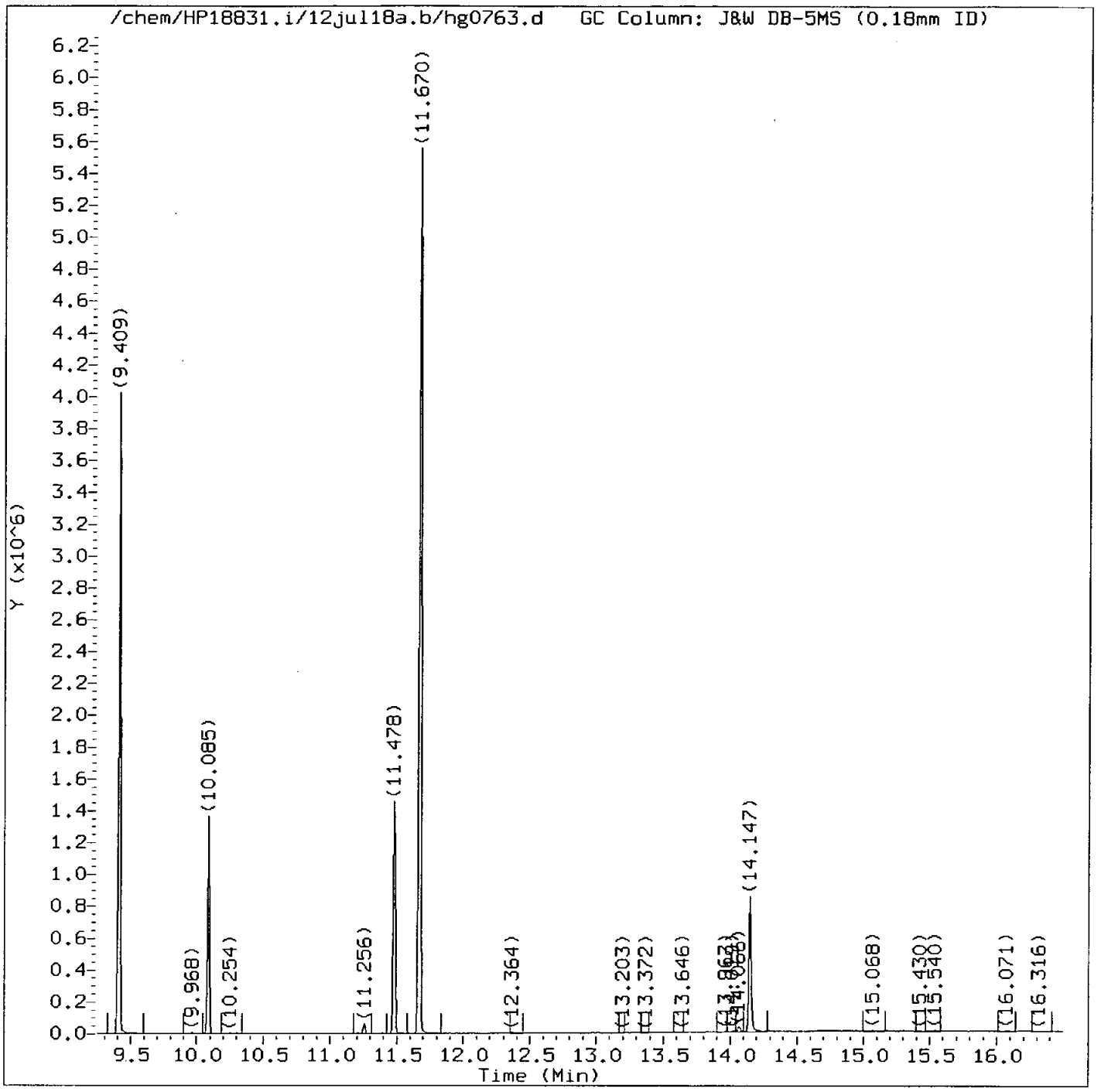
Date, time and analyst ID of latest file update: 19-Jul-2012 01:18 bkg00522

Sample Name: SBLKLH1998

Lab Sample ID: SBLKLH199

Digitally signed by Brian K. Graham
on 07/19/2012 at 01:18.
Target 3.5 esignature user ID: bkg00522

ASX73 0077



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0763.d
Injection date and time: 19-JUL-2012 00:45

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 01:18 bkg00522

Sample Name: SBLKLH1998

Lab Sample ID: SBLKLH199

Digitally signed by Brian K. Graham
on 07/19/2012 at 01:18.
Target 3.5 esignature user ID: bkg00522

ASX73 6878

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0763.d
Injection date and time: 19-JUL-2012 00:45

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 01:18 bkg00522

Sample Name: SBLKLH1998

Lab Sample ID: SBLKLH199

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.419	112	1727591	179.126
15)$Phenol-d6	(1)	5.352	99	2396286	175.429
21)*1,4-Dichlorobenzene-d4	(1)	5.684	152	114460	20.000
38)$Nitrobenzene-d5	(2)	6.226	82	1099848	86.667
52)*Naphthalene-d8	(2)	6.920	136	461012	20.000
78)$2-Fluorobiphenyl	(3)	7.986	172	1608249	86.875
98)*Acenaphthene-d10	(3)	8.633	164	277488	20.000
119)$2,4,6-Tribromophenol	(3)	9.414	330	366744	206.793
135)*Phenanthrene-d10	(4)	10.091	188	510963	20.000
167)*Pyrene-d10	(5)	11.478	212	574878	20.000
156)$Terphenyl-d14	(5)	11.670	244	1940280	100.803
175)*Perylene-d12	(6)	14.147	264	353401	20.000

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Brian K. Graham
on 07/19/2012 at 01:18.
Target 3.5 esignature user ID: bkg00522

ASX73 9879

SBLKWC2008 Lancaster Labs Analysis Summary for GC/MS Semivolatiles SBLKWC200

Data file: /chem/HP18831.i/12jul19.b/hg0812.d
Data file Sample Info. Line: SBLKWC2008;SBLKWC200;
Date, time and analyst ID of latest file update: 19-Jul-2012 08:09 jmg00346

Injection date and time: **19-JUL-2012 07:10**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **200WACqc**
Calibration date and time (Last Method Edit): 19-JUL-2012 08:06
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1000 ml Volume Injected (Vi): 1 ul

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	5.661(0.000)	596	152	82078 (5)	20.00	
52) Naphthalene-d8	6.891(0.006)	807	136	331277 (3)	20.00	
98) Acenaphthene-d10	8.610(0.000)	1102	164	198029 (0)	20.00	
135) Phenanthrene-d10	10.061(0.006)	1351	188	358333 (-2)	20.00	
167) Pyrene-d10	11.454(0.000)	1590	212	419238 (-3)	20.00	
175) Perylene-d12	14.112(0.006)	2046	264	303987 (1)	20.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
9) 2-Fluorophenol	(1)	4.378(0.000)	112	685190	99.073	50%		10 - 98
15) Phenol-d6	(1)	5.317(0.000)	99	618365	63.130	32%		10 - 74
38) Nitrobenzene-d5	(2)	6.197(-0.001)	82	738188	80.948	81%		52 - 120
78) 2-Fluorobiphenyl	(3)	7.957(0.000)	172	1054336	79.806	80%		63 - 114
119) 2,4,6-Tribromophenol	(3)	9.385(0.000)	330	253509	200.300	100%		22 - 150
156) Terphenyl-d14	(5)	11.647(0.000)	244	1320490	94.072	94%		34 - 118

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
12) Benzaldehyde	(1)			Not Detected					1
16) Phenol	(1)			Not Detected					0.5
18) bis(2-Chloroethyl)ether	(1)			Not Detected					0.5
19) 2-Chlorophenol	(1)			Not Detected					0.5
20) 1,3-Dichlorobenzene	(1)			Not Detected					0.5
22) 1,4-Dichlorobenzene	(1)			Not Detected					0.5
25) 1,2-Dichlorobenzene	(1)			Not Detected					0.5
26) 2-Methylphenol	(1)			Not Detected					0.5
27) 2,2'-oxybis(1-Chloropropane)	(1)			Not Detected					0.5
30) Acetophenone	(1)			Not Detected					0.5
31) N-Nitroso-di-n-propylamine	(1)			Not Detected					0.5
33) 4-Methylphenol	(1)			Not Detected					0.5
37) Hexachloroethane	(1)			Not Detected					1
39) Nitrobenzene	(2)			Not Detected					0.5
41) Isophorone	(2)			Not Detected					0.5
42) 2-Nitrophenol	(2)			Not Detected					0.5
44) 2,4-Dimethylphenol	(2)			Not Detected					0.5
46) bis(2-Chloroethoxy)methane	(2)			Not Detected					0.5
49) 2,4-Dichlorophenol	(2)			Not Detected					0.5
50) 1,2,4-Trichlorobenzene	(2)			Not Detected					0.5
53) Naphthalene	(2)			Not Detected					0.1
56) 4-Chloroaniline	(2)			Not Detected					0.5
60) Hexachlorobutadiene	(2)			Not Detected					0.5
63) Caprolactam	(2)			Not Detected					5
68) 4-Chloro-3-methylphenol	(2)			Not Detected					0.5
70) 2-Methylnaphthalene	(2)			Not Detected					0.1
72) Hexachlorocyclopentadiene	(3)			Not Detected					5

Digitally signed by Joseph M. Gambler on 07/19/2012 at 08:10. Target 3.5 esignature user ID: jmg00346

ASX73 0888

SBLKWC2008 Lancaster Labs Analysis Summary for GC/MS Semivolatiles SBLKWC200

Data file: /chem/HP18831.i/12jul19.b/hg0812.d
Data file Sample Info. Line: SBLKWC2008;SBLKWC200;
Date, time and analyst ID of latest file update: 19-Jul-2012 08:09 jmg00346

Injection date and time: **19-JUL-2012 07:10**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **200WACqc**
Calibration date and time (Last Method Edit): 19-JUL-2012 08:06
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1000 ml Volume Injected (Vi): 1 ul

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
75) 2,4,6-Trichlorophenol	(3)			Not Detected					0.5
77) 2,4,5-Trichlorophenol	(3)			Not Detected					0.5
83) 1,1'-Biphenyl	(3)			Not Detected					0.5
84) 2-Chloronaphthalene	(3)			Not Detected					0.4
89) 2-Nitroaniline	(3)			Not Detected					0.5
92) Dimethylphthalate	(3)			Not Detected					2
94) 2,6-Dinitrotoluene	(3)			Not Detected					0.5
95) Acenaphthylene	(3)			Not Detected					0.1
97) 3-Nitroaniline	(3)			Not Detected					0.5
99) Acenaphthene	(3)			Not Detected					0.1
100) 2,4-Dinitrophenol	(3)			Not Detected					10
103) 4-Nitrophenol	(3)			Not Detected					10
104) Dibenzofuran	(3)			Not Detected					0.5
105) 2,4-Dinitrotoluene	(3)			Not Detected					1
109) Diethylphthalate	(3)			Not Detected					2
111) Fluorene	(3)			Not Detected					0.1
112) 4-Chlorophenyl-phenylether	(3)			Not Detected					0.5
114) 4-Nitroaniline	(3)			Not Detected					0.5
115) 4,6-Dinitro-2-methylphenol	(4)			Not Detected					5
117) N-Nitrosodiphenylamine	(4)			Not Detected					0.5
125) 4-Bromophenyl-phenylether	(4)			Not Detected					0.5
127) Hexachlorobenzene	(4)			Not Detected					0.1
130) Atrazine	(4)			Not Detected					2
131) Pentachlorophenol	(4)			Not Detected					1
137) Phenanthrene	(4)			Not Detected					0.1
138) Anthracene	(4)			Not Detected					0.1
140) Carbazole	(4)			Not Detected					0.5
142) Di-n-butylphthalate	(4)			Not Detected					2
147) Fluoranthene	(4)			Not Detected					0.1
154) Pyrene	(5)			Not Detected					0.1
161) Butylbenzylphthalate	(5)			Not Detected					2
164) 3,3'-Dichlorobenzidine	(5)			Not Detected					2
166) Benzo(a)anthracene	(5)			Not Detected					0.1
168) Chrysene	(5)			Not Detected					0.1
169) bis(2-Ethylhexyl)phthalate	(5)			Not Detected					2
170) Di-n-octylphthalate	(6)			Not Detected					2
172) Benzo(b)fluoranthene	(6)			Not Detected					0.1
173) Benzo(k)fluoranthene	(6)			Not Detected					0.1
174) Benzo(a)pyrene	(6)			Not Detected					0.1
177) Indeno(1,2,3-cd)pyrene	(6)			Not Detected					0.1
178) Dibenz(a,h)anthracene	(6)			Not Detected					0.1
179) Benzo(g,h,i)perylene	(6)			Not Detected					0.1

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ASX73 0081

SBLKWC2008 Lancaster Labs Analysis Summary for GC/MS Semivolatiles SBLKWC200

Data file: /chem/HP18831.i/12jul19.b/hg0812.d
Data file Sample Info. Line: SBLKWC2008;SBLKWC200;
Date, time and analyst ID of latest file update: 19-Jul-2012 08:09 jmg00346

Injection date and time: **19-JUL-2012 07:10**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **200WACqc**
Calibration date and time (Last Method Edit): 19-JUL-2012 08:06
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1000 ml Volume Injected (Vi): 1 ul

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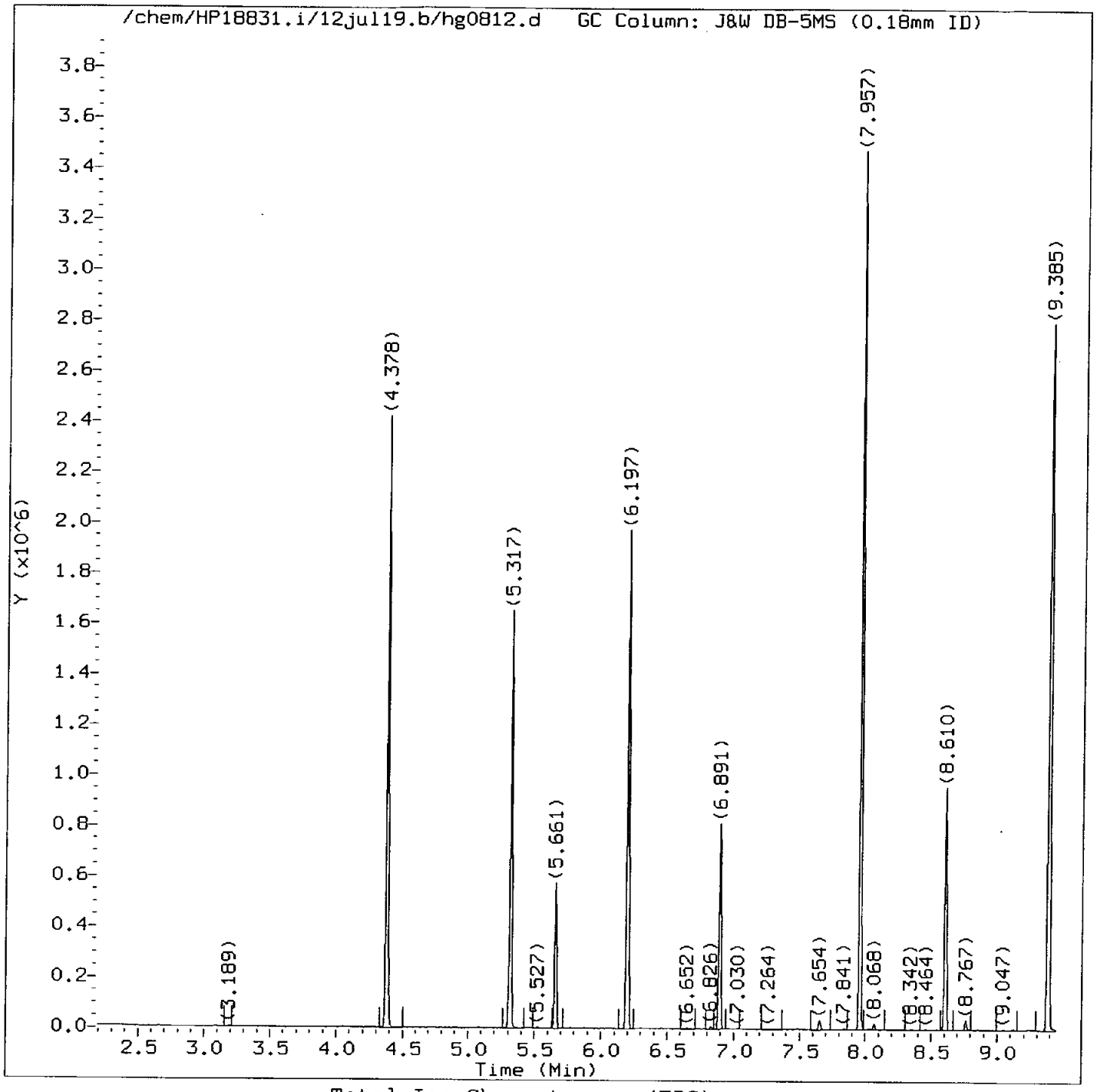
Total number of targets = 69

Digitally signed by Joseph M. Gambler on 07/19/2012 at 08:10. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Matthew E. Barton on 07/20/2012 at 11:11. Parallax ID: reb00745

ASX73 0002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0812.d
Injection date and time: 19-JUL-2012 07:10

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

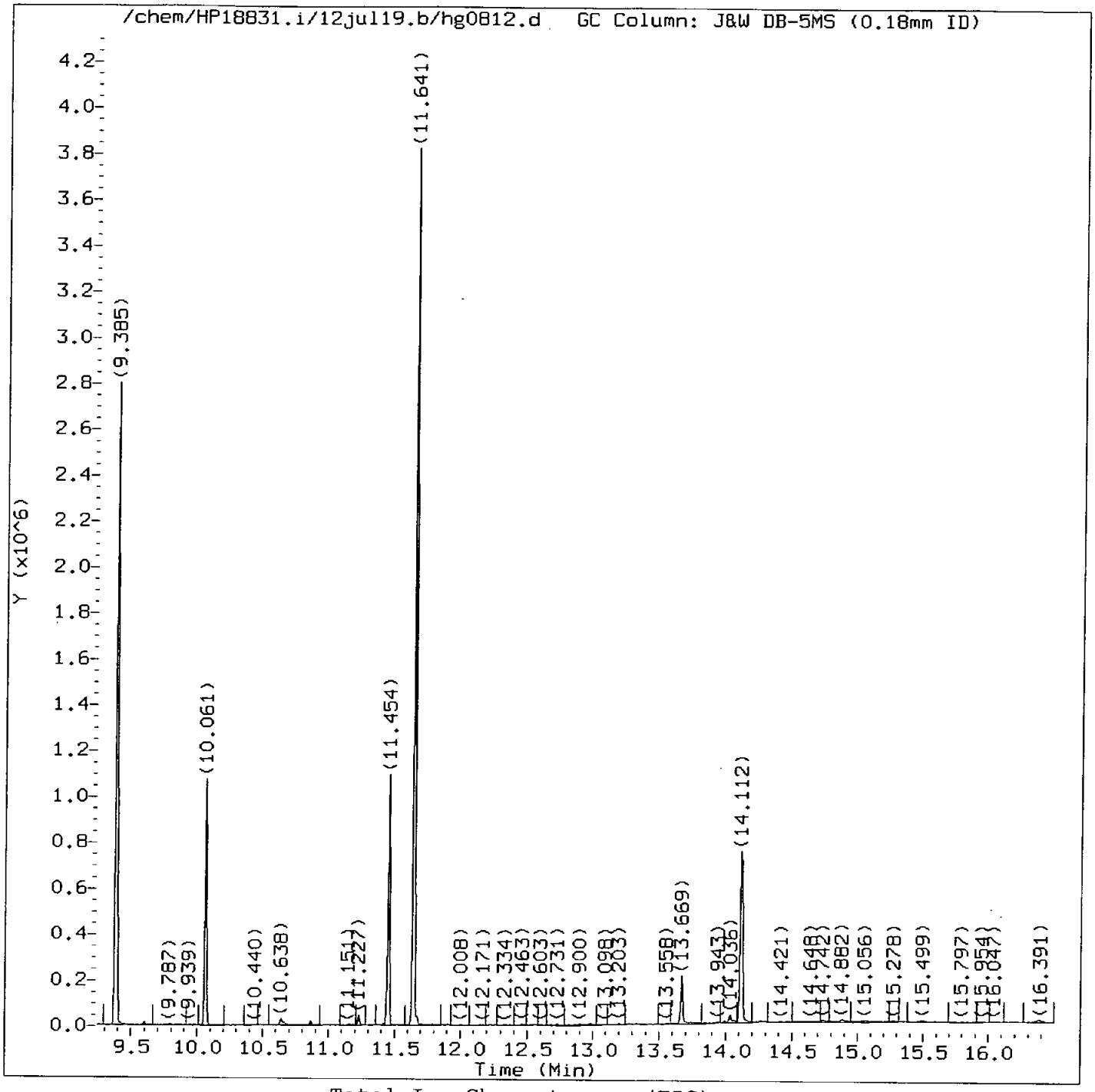
Date, time and analyst ID of latest file update: 19-Jul-2012 08:09 jmg00346

Sample Name: SBLKWC2008

Lab Sample ID: SBLKWC200

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:10.
Target 3.5 esignature user ID: jmg00346

ASX73 0083



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0812.d
Injection date and time: 19-JUL-2012 07:10

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

Date, time and analyst ID of latest file update: 19-Jul-2012 08:09 jmg00346

Sample Name: SBLKWC2008

Lab Sample ID: SBLKWC200

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:10.
Target 3.5 esignature user ID: jmg00346

ASX73 0084

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0812.d
Injection date and time: 19-JUL-2012 07:10

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

Date, time and analyst ID of latest file update: 19-Jul-2012 08:09 jmg00346

Sample Name: SBLKWC2008

Lab Sample ID: SBLKWC200

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.378	112	685190	99.073
15)$Phenol-d6	(1)	5.317	99	618365	63.130
21)*1,4-Dichlorobenzene-d4	(1)	5.661	152	82078	20.000
38)$Nitrobenzene-d5	(2)	6.197	82	738188	80.948
52)*Naphthalene-d8	(2)	6.891	136	331277	20.000
78)$2-Fluorobiphenyl	(3)	7.957	172	1054336	79.806
98)*Acenaphthene-d10	(3)	8.610	164	198029	20.000
119)$2,4,6-Tribromophenol	(3)	9.385	330	253509	200.300
135)*Phenanthrene-d10	(4)	10.061	188	358333	20.000
167)*Pyrene-d10	(5)	11.454	212	419238	20.000
156)$Terphenyl-d14	(5)	11.647	244	1320490	94.072
175)*Perylene-d12	(6)	14.112	264	303987	20.000

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:10.
Target 3.5 esignature user ID: jmg00346

ASX73 8885

XXXXXMS

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6721497

Data file: /chem/HP18831.i/12jul18a.b/hg0766.d
Data file Sample Info. Line: XXXXXMS;6721497;
Date, time and analyst ID of latest file update: 19-Jul-2012 05:06 jmg00346

Injection date and time: **19-JUL-2012 04:07**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 5
Final Extract Volume (Vt): 1000 ul
GpcCleanup (No = 0, Yes = 1): 0
Volume Injected (Vi): 1 ul
Unit Correction Factor (Uf): 1
Sample Weight (Ws): 30.5 g

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	5.684(0.000)	600	152	104644 (-11)	20.00	
52) Naphthalene-d8	6.920(0.000)	812	136	413772 (-17)	20.00	
98) Acenaphthene-d10	8.633(0.006)	1106	164	234430 (-21)	20.00	
135) Phenanthrene-d10	10.091(0.006)	1356	188	375734 (-25)	20.00	
167) Pyrene-d10	11.484(0.000)	1595	212	356456 (-35)	20.00	
175) Perylene-d12	14.153(0.000)	2053	264	202397 (-44)	20.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
9) 2-Fluorophenol	(1)	4.408(-0.001)	112	289357	32.816	82%		48 - 136
15) Phenol-d6	(1)	5.346(0.000)	99	402038	32.194	80%		42 - 130
38) Nitrobenzene-d5	(2)	6.220(0.001)	82	182499	16.023	80%		45 - 123
78) 2-Fluorobiphenyl	(3)	7.981(0.000)	172	273204	17.469	87%		56 - 121
119) 2,4,6-Tribromophenol	(3)	9.409(0.000)	330	47518	31.715	79%		28 - 139
156) Terphenyl-d14	(5)	11.670(0.000)	244	212046	17.767	89%		36 - 135

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
16) Phenol	(1)	5.358(-0.000)	94	115826	7.844	1285.88			0.5
18) bis(2-Chloroethyl)ether	(1)	5.439(0.001)	93	88112	8.018	1314.39			0.5
19) 2-Chlorophenol	(1)	5.480(-0.000)	128	65247	7.978	1307.87			0.5
20) 1,3-Dichlorobenzene	(1)	5.626(-0.000)	146	60413	7.323	1200.46			0.5
22) 1,4-Dichlorobenzene	(1)	5.702(0.000)	146	62576	7.429	1217.83			0.5
25) 1,2-Dichlorobenzene	(1)	5.842(0.001)	146	59239	7.556	1238.68			0.5
26) 2-Methylphenol	(1)	5.941(0.001)	108	75254	7.980	1308.16			0.5
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.964(0.000)	45	96638	7.509	1231.06			0.5
31) N-Nitroso-di-n-propylamine	(1)	6.086(0.002)	70	68454	7.889	1293.25			0.5
33) 4-Methylphenol	(1)	6.092(0.000)	108	85201	8.340	1367.25			0.5
37) Hexachloroethane	(1)	6.174(0.000)	117	26315	7.065	1158.17			1
39) Nitrobenzene	(2)	6.238(0.000)	77	97154	8.193	1343.17			0.5
41) Isophorone	(2)	6.477(0.000)	82	177790	7.985	1309.03			0.5
42) 2-Nitrophenol	(2)	6.547(0.000)	139	31959	7.629	1250.67			0.5
44) 2,4-Dimethylphenol	(2)	6.605(-0.000)	107	77017	7.820	1281.89			0.5
46) bis(2-Chloroethoxy)methane	(2)	6.698(0.000)	93	106718	7.962	1305.17			0.5
49) 2,4-Dichlorophenol	(2)	6.786(-0.000)	162	51070	8.085	1325.34			0.5
50) 1,2,4-Trichlorobenzene	(2)	6.867(-0.000)	180	56729	8.126	1332.07			0.5
53) Naphthalene	(2)	6.937(0.000)	128	197538	8.379	1373.65			0.1
56) 4-Chloroaniline	(2)	6.996(0.000)	127	69712	7.279	1193.34			0.5
60) Hexachlorobutadiene	(2)	7.066(0.000)	225	28599	7.916	1297.63			0.5
68) 4-Chloro-3-methylphenol	(2)	7.479(0.000)	107	69523	8.031	1316.56			0.5
70) 2-Methylnaphthalene	(2)	7.619(0.000)	142	132842	9.227	1512.69			0.1
72) Hexachlorocyclopentadiene	(3)	7.777(-0.000)	237	15608	5.402	885.62			5
75) 2,4,6-Trichlorophenol	(3)	7.899(-0.000)	196	34512	7.920	1298.33			0.5
77) 2,4,5-Trichlorophenol	(3)	7.934(-0.000)	196	36394	7.558	1238.99			0.5
84) 2-Chloronaphthalene	(3)	8.091(0.000)	162	112560	8.328	1365.19			0.2

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:08. Target 3.5 esignature user ID: jmg00346

ASX73 0886

XXXXXMS

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6721497

Data file: /chem/HP18831.i/12jul18a.b/hg0766.d
Data file Sample Info. Line: XXXXXMS;6721497;
Date, time and analyst ID of latest file update: 19-Jul-2012 05:06 jmg00346

Injection date and time: **19-JUL-2012 04:07**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 5
Final Extract Volume (Vt): 1000 ul

GpcCleanup (No = 0, Yes = 1): 0
Volume Injected (Vi): 1 ul

Unit Correction Factor (Uf): 1
Sample Weight (Ws): 30.5 g

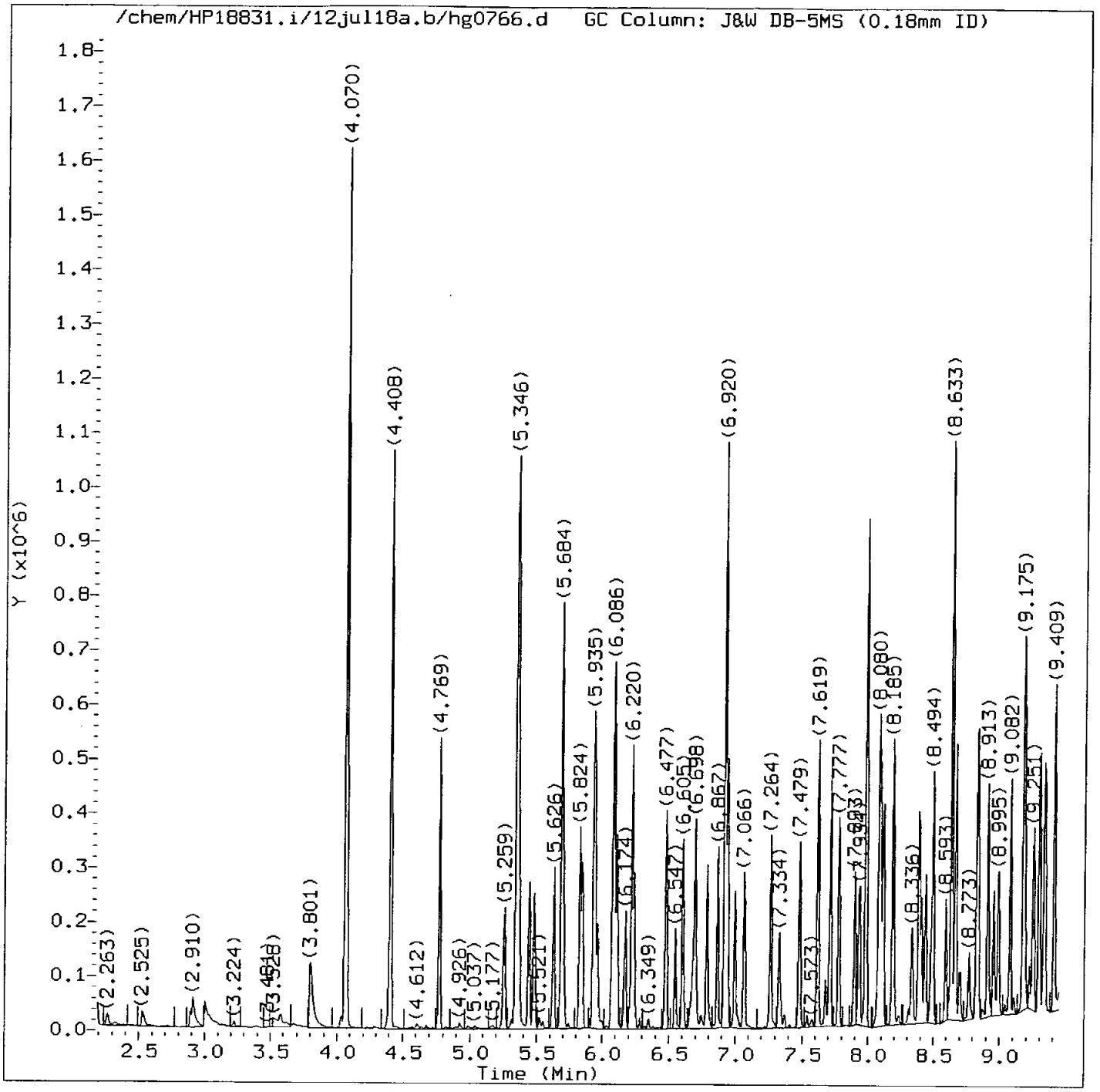
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
89) 2-Nitroaniline	(3)	8.196(0.000)	138	39530	8.468	1388.27			0.5
92) Dimethylphthalate	(3)	8.389(0.000)	163	141848	8.958	1468.45			2
94) 2,6-Dinitrotoluene	(3)	8.441(-0.000)	165	30470	8.509	1394.94			0.5
95) Acenaphthylene	(3)	8.494(0.000)	152	183349	8.937	1465.01			0.1
97) 3-Nitroaniline	(3)	8.598(-0.000)	138	32999	8.067	1322.40			2
99) Acenaphthene	(3)	8.668(-0.000)	153	112819	8.031	1316.49			0.1
100) 2,4-Dinitrophenol	(3)			Not Detected					10
103) 4-Nitrophenol	(3)	8.773(-0.000)	109	20408	7.210	1181.95			5
104) Dibenzofuran	(3)	8.837(-0.000)	168	170515	8.557	1402.73			0.5
105) 2,4-Dinitrotoluene	(3)	8.832(-0.000)	165	38807	8.416	1379.75			2
109) Diethylphthalate	(3)	9.082(-0.000)	149	143606	8.766	1437.08			2
111) Fluorene	(3)	9.175(-0.000)	166	135648	8.516	1396.08			0.1
112) 4-Chlorophenyl-phenylether	(3)	9.181(-0.000)	204	66231	8.620	1413.05			0.5
114) 4-Nitroaniline	(3)	9.193(0.000)	138	33239	8.060	1321.32			2
115) 4,6-Dinitro-2-methylphenol	(4)			Not Detected					5
117) N-Nitrosodiphenylamine	(4)	9.298(0.000)	169	120051	9.037	1481.47			0.5
125) 4-Bromophenyl-phenylether	(4)	9.659(0.000)	248	32426	8.565	1404.06			0.5
127) Hexachlorobenzene	(4)	9.706(0.000)	284	25518	6.876	1127.22			0.1
131) Pentachlorophenol	(4)	9.904(0.000)	266	14034	5.884	964.65			1
137) Phenanthrene	(4)	10.114(-0.000)	178	192390	8.887	1456.90			0.1
138) Anthracene	(4)	10.160(-0.000)	178	179386	8.386	1374.74			0.1
140) Carbazole	(4)	10.324(-0.000)	167	171166	8.392	1375.76			0.5
142) Di-n-butylphthalate	(4)	10.691(-0.000)	149	217528	8.387	1374.99			2
147) Fluoranthene	(4)	11.280(-0.000)	202	186283	8.675	1422.20			0.1
154) Pyrene	(5)	11.501(0.000)	202	184629	9.025	1479.48			0.1
161) Butylbenzylphthalate	(5)	12.160(0.000)	149	79620	8.969	1470.39			2
164) 3,3'-Dichlorobenzidine	(5)	12.678(0.000)	252	35498	6.675	1094.29			3
166) Benzo(a)anthracene	(5)	12.696(0.000)	228	122240	8.141	1334.66			0.1
168) Chrysene	(5)	12.731(0.000)	228	121692	8.041	1318.24			0.1
169) bis(2-Ethylhexyl)phthalate	(5)	12.760(0.000)	149	101931	8.985	1472.88			2
170) Di-n-octylphthalate	(6)	13.424(-0.000)	149	161541	8.901	1459.24			2
172) Benzo(b)fluoranthene	(6)	13.780(0.000)	252	103305	8.066	1322.35			0.1
173) Benzo(k)fluoranthene	(6)	13.809(0.000)	252	105808	8.347	1368.36			0.1
174) Benzo(a)pyrene	(6)	14.095(0.000)	252	92025	8.013	1313.64			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	15.319(0.000)	276	90392	8.143	1334.91			0.1
178) Dibenz(a,h)anthracene	(6)	15.348(0.000)	278	73392	8.048	1319.35			0.1
179) Benzo(g,h,i)perylene	(6)	15.651(0.000)	276	72664	7.752	1270.87			0.1

Total number of targets = 64

Digitally signed by Joseph M. Gambler on 07/19/2012 at 05:08. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:03. Parallax ID: ild00415

ASX73 0087



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0766.d
Injection date and time: 19-JUL-2012 04:07

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

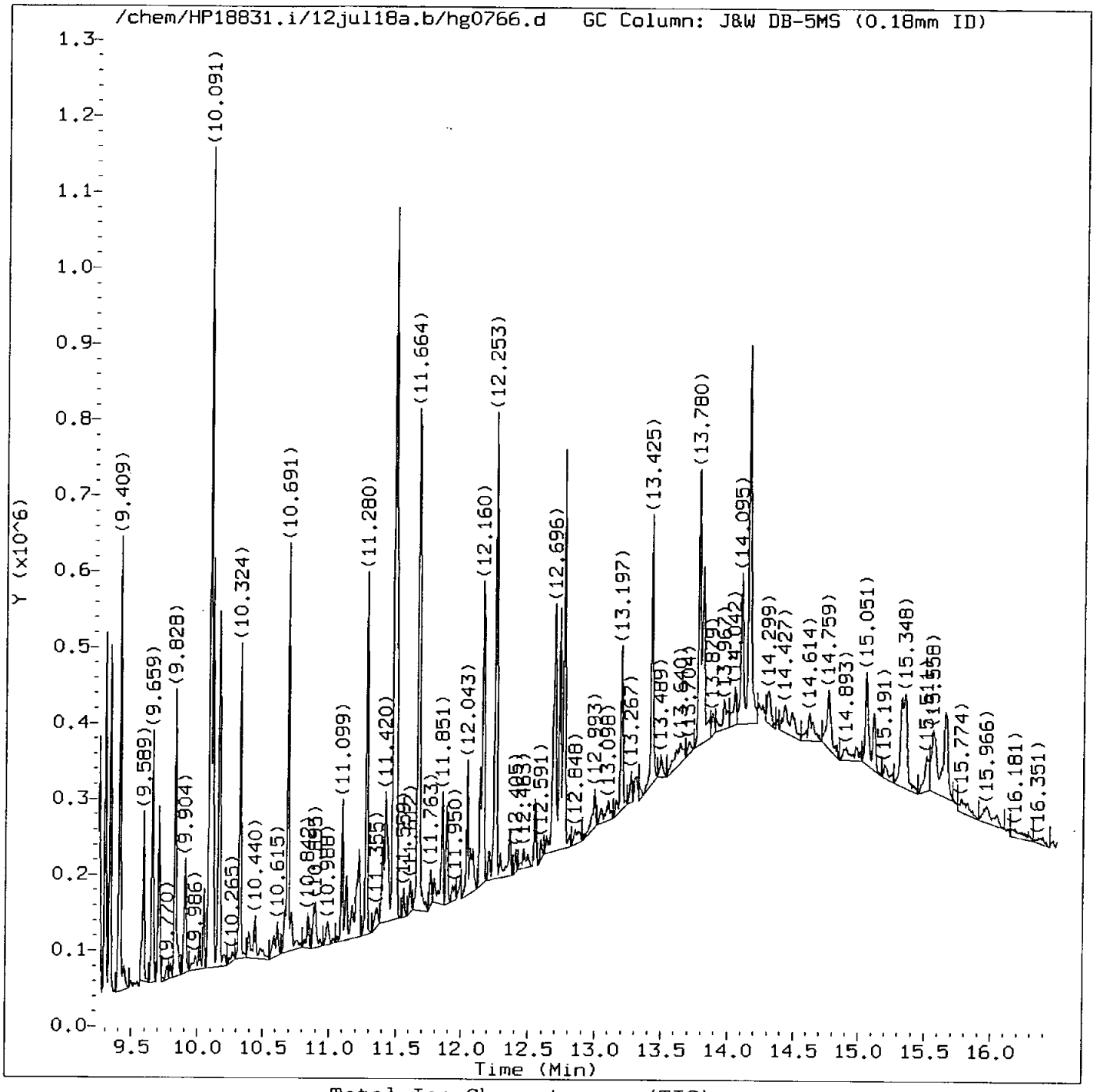
Date, time and analyst ID of latest file update: 19-Jul-2012 05:06 jmg00346

Sample Name: XXXXXMS

Lab Sample ID: 6721497

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 05:08.
Target 3.5 esignature user ID: jmg00346

ASX73 0000



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0766.d
Injection date and time: 19-JUL-2012 04:07

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:06 jmg00346

Sample Name: XXXXXMS

Lab Sample ID: 6721497

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 05:08.
Target 3.5 esignature user ID: jmg00346

ASX73 0089

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0766.d
Injection date and time: 19-JUL-2012 04:07

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:06 jmg00346

Sample Name: XXXXXMS

Lab Sample ID: 6721497

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.408	112	289357	32.816
15)$Phenol-d6	(1)	5.346	99	402038	32.194
16) Phenol	(1)	5.358	94	115826	7.844
18) bis(2-Chloroethyl)ether	(1)	5.439	93	88112	8.018
19) 2-Chlorophenol	(1)	5.480	128	65247	7.978
20) 1,3-Dichlorobenzene	(1)	5.626	146	60413	7.323
21)*1,4-Dichlorobenzene-d4	(1)	5.684	152	104644	20.000
22) 1,4-Dichlorobenzene	(1)	5.702	146	62576	7.429
25) 1,2-Dichlorobenzene	(1)	5.841	146	59239	7.556
26) 2-Methylphenol	(1)	5.941	108	75254	7.980
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.964	45	96638	7.509
31) N-Nitroso-di-n-propylamine	(1)	6.086	70	68454	7.889
33) 4-Methylphenol	(1)	6.092	108	85201	8.340
37) Hexachloroethane	(1)	6.174	117	26315	7.065
38)$Nitrobenzene-d5	(2)	6.220	82	182499	16.023
39) Nitrobenzene	(2)	6.238	77	97154	8.193
41) Isophorone	(2)	6.477	82	177790	7.985
42) 2-Nitrophenol	(2)	6.547	139	31959	7.629
44) 2,4-Dimethylphenol	(2)	6.605	107	77017	7.820
46) bis(2-Chloroethoxy)methane	(2)	6.698	93	106718	7.962
49) 2,4-Dichlorophenol	(2)	6.786	162	51070	8.085
50) 1,2,4-Trichlorobenzene	(2)	6.867	180	56729	8.126
52)*Naphthalene-d8	(2)	6.920	136	413772	20.000
53) Naphthalene	(2)	6.937	128	197538	8.379
56) 4-Chloroaniline	(2)	6.996	127	69712	7.279
60) Hexachlorobutadiene	(2)	7.066	225	28599	7.916
68) 4-Chloro-3-methylphenol	(2)	7.479	107	69523	8.031
70) 2-Methylnaphthalene	(2)	7.619	142	132842	9.227
72) Hexachlorocyclopentadiene	(3)	7.777	237	15608	5.402
75) 2,4,6-Trichlorophenol	(3)	7.899	196	34512	7.920
77) 2,4,5-Trichlorophenol	(3)	7.934	196	36394	7.558
78)$2-Fluorobiphenyl	(3)	7.981	172	273204	17.469
84) 2-Chloronaphthalene	(3)	8.091	162	112560	8.328
89) 2-Nitroaniline	(3)	8.196	138	39530	8.468
92) Dimethylphthalate	(3)	8.389	163	141848	8.958
94) 2,6-Dinitrotoluene	(3)	8.441	165	30470	8.509
95) Acenaphthylene	(3)	8.494	152	183349	8.937
97) 3-Nitroaniline	(3)	8.598	138	32999	8.067
98)*Acenaphthene-d10	(3)	8.633	164	234430	20.000
99) Acenaphthene	(3)	8.668	153	112819	8.031

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 05:08.
Target 3.5 esignature user ID: jmg00346

ASX73 0090

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0766.d
Injection date and time: 19-JUL-2012 04:07

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 05:06 jmg00346

Sample Name: XXXXXMS

Lab Sample ID: 6721497

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
103) 4-Nitrophenol	(3)	8.773	109	20408	7.210
105) 2,4-Dinitrotoluene	(3)	8.832	165	38807	8.416
104) Dibenzofuran	(3)	8.837	168	170515	8.557
109) Diethylphthalate	(3)	9.082	149	143606	8.766
111) Fluorene	(3)	9.175	166	135648	8.516
112) 4-Chlorophenyl-phenylether	(3)	9.181	204	66231	8.620
114) 4-Nitroaniline	(3)	9.193	138	33239	8.060
117) N-Nitrosodiphenylamine	(4)	9.298	169	120051	9.037
119)$2,4,6-Tribromophenol	(3)	9.409	330	47518	31.715
125) 4-Bromophenyl-phenylether	(4)	9.659	248	32426	8.565
127) Hexachlorobenzene	(4)	9.706	284	25518	6.876
131) Pentachlorophenol	(4)	9.904	266	14034	5.884
135)*Phenanthrene-d10	(4)	10.091	188	375734	20.000
137) Phenanthrene	(4)	10.114	178	192390	8.887
138) Anthracene	(4)	10.161	178	179386	8.386
140) Carbazole	(4)	10.324	167	171166	8.392
142) Di-n-butylphthalate	(4)	10.691	149	217528	8.387
147) Fluoranthene	(4)	11.280	202	186283	8.675
167)*Pyrene-d10	(5)	11.484	212	356456	20.000
154) Pyrene	(5)	11.501	202	184629	9.025
156)$Terphenyl-d14	(5)	11.670	244	212046	17.767
161) Butylbenzylphthalate	(5)	12.160	149	79620	8.969
164) 3,3'-Dichlorobenzidine	(5)	12.678	252	35498	6.675
166) Benzo(a)anthracene	(5)	12.696	228	122240	8.141
168) Chrysene	(5)	12.731	228	121692	8.041
169) bis(2-Ethylhexyl)phthalate	(5)	12.760	149	101931	8.985
170) Di-n-octylphthalate	(6)	13.425	149	161541	8.901
172) Benzo(b)fluoranthene	(6)	13.780	252	103305	8.066
173) Benzo(k)fluoranthene	(6)	13.809	252	105808	8.347
174) Benzo(a)pyrene	(6)	14.095	252	92025	8.013
175)*Perylene-d12	(6)	14.153	264	202397	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	15.319	276	90392	8.143
178) Dibenz(a,h)anthracene	(6)	15.348	278	73392	8.048
179) Benzo(g,h,i)perylene	(6)	15.651	276	72664	7.752

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 05:08.
Target 3.5 esignature user ID: jmg00346

ASX73 0891

XXXXXMSD

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6721497

Data file: /chem/HP18831.i/12jul18a.b/hg0767.d
Data file Sample Info. Line: XXXXXMSD;6721497;
Date, time and analyst ID of latest file update: 20-Jul-2012 10:09 jmg00346

Injection date and time: **19-JUL-2012 04:29**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 5
Final Extract Volume (Vt): 1000 ul
GpcCleanup (No = 0, Yes = 1): 0
Volume Injected (Vi): 1 ul
Unit Correction Factor (Uf): 1
Sample Weight (Ws): 30.5 g

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	5.684(0.000)	600	152	106767 (-10)	20.00	
52) Naphthalene-d8	6.920(0.000)	812	136	427509 (-15)	20.00	
98) Acenaphthene-d10	8.639(0.000)	1107	164	243813 (-18)	20.00	
135) Phenanthrene-d10	10.091(0.006)	1356	188	395440 (-21)	20.00	
167) Pyrene-d10	11.484(0.000)	1595	212	379528 (-31)	20.00	
175) Perylene-d12	14.159(-0.006)	2054	264	209825 (-42)	20.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
9) 2-Fluorophenol	(1)	4.408(-0.001)	112	298652	33.197	83%		48 - 136
15) Phenol-d6	(1)	5.346(0.000)	99	409777	32.161	80%		42 - 130
38) Nitrobenzene-d5	(2)	6.220(0.001)	82	189580	16.109	81%		45 - 123
78) 2-Fluorobiphenyl	(3)	7.981(0.001)	172	280714	17.258	86%		56 - 121
119) 2,4,6-Tribromophenol	(3)	9.409(0.001)	330	53358	34.242	86%		28 - 139
156) Terphenyl-d14	(5)	11.670(0.000)	244	230504	18.139	91%		36 - 135

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
16) Phenol	(1)	5.358(-0.000)	94	123129	8.173	1339.78			0.5
18) bis(2-Chloroethyl)ether	(1)	5.439(0.001)	93	91306	8.143	1334.96			0.5
19) 2-Chlorophenol	(1)	5.480(-0.000)	128	67463	8.085	1325.40			0.5
20) 1,3-Dichlorobenzene	(1)	5.626(-0.000)	146	64927	7.713	1264.50			0.5
22) 1,4-Dichlorobenzene	(1)	5.702(0.000)	146	67088	7.806	1279.68			0.5
25) 1,2-Dichlorobenzene	(1)	5.842(0.001)	146	63616	7.953	1303.75			0.5
26) 2-Methylphenol	(1)	5.941(0.001)	108	78305	8.138	1334.13			0.5
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.964(0.000)	45	100555	7.658	1255.48			0.5
31) N-Nitroso-di-n-propylamine	(1)	6.086(0.002)	70	71581	8.085	1325.43			0.5
33) 4-Methylphenol	(1)	6.092(0.000)	108	89587	8.595	1409.05			0.5
37) Hexachloroethane	(1)	6.174(0.000)	117	27822	7.321	1200.15			1
39) Nitrobenzene	(2)	6.238(0.000)	77	102662	8.380	1373.71			0.5
41) Isophorone	(2)	6.477(0.000)	82	187056	8.131	1333.00			0.5
42) 2-Nitrophenol	(2)	6.547(0.000)	139	35226	8.139	1334.22			0.5
44) 2,4-Dimethylphenol	(2)	6.605(-0.000)	107	81794	8.038	1317.65			0.5
46) bis(2-Chloroethoxy)methane	(2)	6.698(0.000)	93	110899	8.008	1312.72			0.5
49) 2,4-Dichlorophenol	(2)	6.786(-0.000)	162	53110	8.137	1334.00			0.5
50) 1,2,4-Trichlorobenzene	(2)	6.867(-0.000)	180	59365	8.230	1349.17			0.5
53) Naphthalene	(2)	6.937(0.000)	128	206097	8.461	1387.12			0.1
56) 4-Chloroaniline	(2)	6.996(0.000)	127	74232	7.502	1229.88			0.5
60) Hexachlorobutadiene	(2)	7.066(0.000)	225	30717	8.229	1348.95			0.5
68) 4-Chloro-3-methylphenol	(2)	7.479(0.000)	107	74721	8.354	1369.53			0.5
70) 2-Methylnaphthalene	(2)	7.619(-0.000)	142	142648	9.590	1572.16			0.1
72) Hexachlorocyclopentadiene	(3)	7.777(-0.000)	237	15648	5.208	853.72			5
75) 2,4,6-Trichlorophenol	(3)	7.899(-0.000)	196	37081	8.182	1341.29			0.5
77) 2,4,5-Trichlorophenol	(3)	7.934(-0.000)	196	40152	8.017	1314.32			0.5
84) 2-Chloronaphthalene	(3)	8.091(0.000)	162	118630	8.439	1383.44			0.2

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ASX73 0892

XXXXXMSD

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6721497

Data file: /chem/HP18831.i/12jul18a.b/hg0767.d
Data file Sample Info. Line: XXXXXMSD;6721497;
Date, time and analyst ID of latest file update: 20-Jul-2012 10:09 jmg00346

Injection date and time: **19-JUL-2012 04:29**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 5
Final Extract Volume (Vt): 1000 ul

GpcCleanup (No = 0, Yes = 1): 0
Volume Injected (Vi): 1 ul

Unit Correction Factor (Uf): 1
Sample Weight (Ws): 30.5 g

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area.	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
89) 2-Nitroaniline	(3)	8.196(0.000)	138	42707	8.797	1442.12			0.5
92) Dimethylphthalate	(3)	8.389(0.000)	163	147581	8.961	1469.00			2
94) 2,6-Dinitrotoluene	(3)	8.441(-0.000)	165	32476	8.720	1429.56			0.5
95) Acenaphthylene	(3)	8.499(-0.000)	152	197362	9.249	1516.28			0.1
97) 3-Nitroaniline	(3)	8.593(0.000)	138	35947	8.449	1385.09			2
99) Acenaphthene	(3)	8.668(-0.000)	153	121603	8.323	1364.39			0.1
100) 2,4-Dinitrophenol	(3)			Not Detected					10
103) 4-Nitrophenol	(3)	8.773(-0.000)	109	21067	7.156	1173.16			5
104) Dibenzofuran	(3)	8.837(0.000)	168	182381	8.800	1442.60			0.5
105) 2,4-Dinitrotoluene	(3)	8.832(0.000)	165	40784	8.505	1394.24			2
109) Diethylphthalate	(3)	9.082(0.000)	149	149697	8.786	1440.38			2
111) Fluorene	(3)	9.175(0.000)	166	145363	8.775	1438.49			0.1
112) 4-Chlorophenyl-phenylether	(3)	9.181(0.000)	204	70177	8.782	1439.62			0.5
114) 4-Nitroaniline	(3)	9.193(0.001)	138	36005	8.395	1376.20			2
115) 4,6-Dinitro-2-methylphenol	(4)			Not Detected					5
117) N-Nitrosodiphenylamine	(4)	9.298(0.000)	169	129881	9.290	1522.90			0.5
125) 4-Bromophenyl-phenylether	(4)	9.659(0.000)	248	34047	8.545	1400.78			0.5
127) Hexachlorobenzene	(4)	9.712(-0.000)	284	27292	6.988	1145.50			0.1
131) Pentachlorophenol	(4)	9.904(0.000)	266	14922	5.945	974.57			1
137) Phenanthrene	(4)	10.114(-0.000)	178	201948	8.864	1453.07			0.1
138) Anthracene	(4)	10.166(-0.000)	178	195645	8.690	1424.62			0.1
140) Carbazole	(4)	10.324(-0.000)	167	187457	8.733	1431.62			0.5
142) Di-n-butylphthalate	(4)	10.691(-0.000)	149	233366	8.550	1401.59			2
147) Fluoranthene	(4)	11.280(-0.000)	202	205939	9.113	1493.92			0.1
154) Pyrene	(5)	11.501(0.000)	202	204304	9.379	1537.62			0.1
161) Butylbenzylphthalate	(5)	12.166(0.000)	149	84713	8.963	1469.34			2
164) 3,3'-Dichlorobenzidine	(5)	12.678(0.000)	252	39466	6.970	1142.65			3
166) Benzo(a)anthracene	(5)	12.696(0.000)	228	135378	8.468	1388.25			0.1
168) Chrysene	(5)	12.731(0.000)	228	134754	8.363	1370.99			0.1
169) bis(2-Ethylhexyl)phthalate	(5)	12.760(0.000)	149	109579	9.072	1487.14			2
170) Di-n-octylphthalate	(6)	13.424(0.000)	149	168167	8.938	1465.32			2
172) Benzo(b)fluoranthene	(6)	13.780(0.000)	252	122171	9.202	1508.48			0.1
173) Benzo(k)fluoranthene	(6)	13.809(0.000)	252	102549	7.804	1279.26			0.1
174) Benzo(a)pyrene	(6)	14.101(0.000)	252	98534M	8.276	1356.76			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	15.325(0.000)	276	100140	8.702	1426.51			0.1
178) Dibenz(a,h)anthracene	(6)	15.348(0.000)	278	80659	8.532	1398.66			0.1
179) Benzo(g,h,i)perylene	(6)	15.657(0.000)	276	84202	8.665	1420.54			0.1

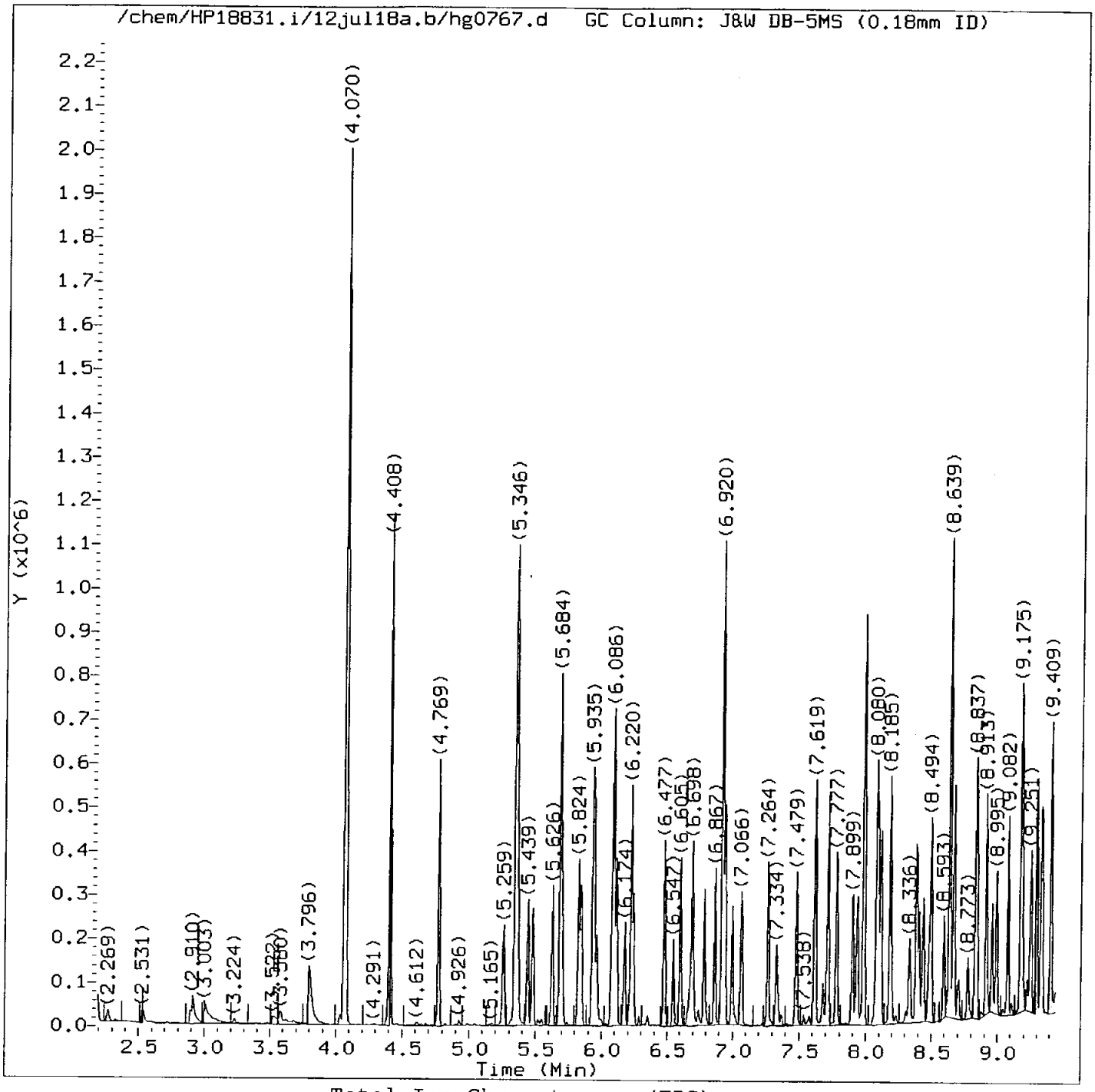
M = Compound was manually integrated.

Total number of targets = 64

Digitally signed by Joseph M. Gambler on 07/20/2012 at 10:09. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:37. Parallax ID: ild00415

ASX73 0893



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0767.d
Injection date and time: 19-JUL-2012 04:29

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

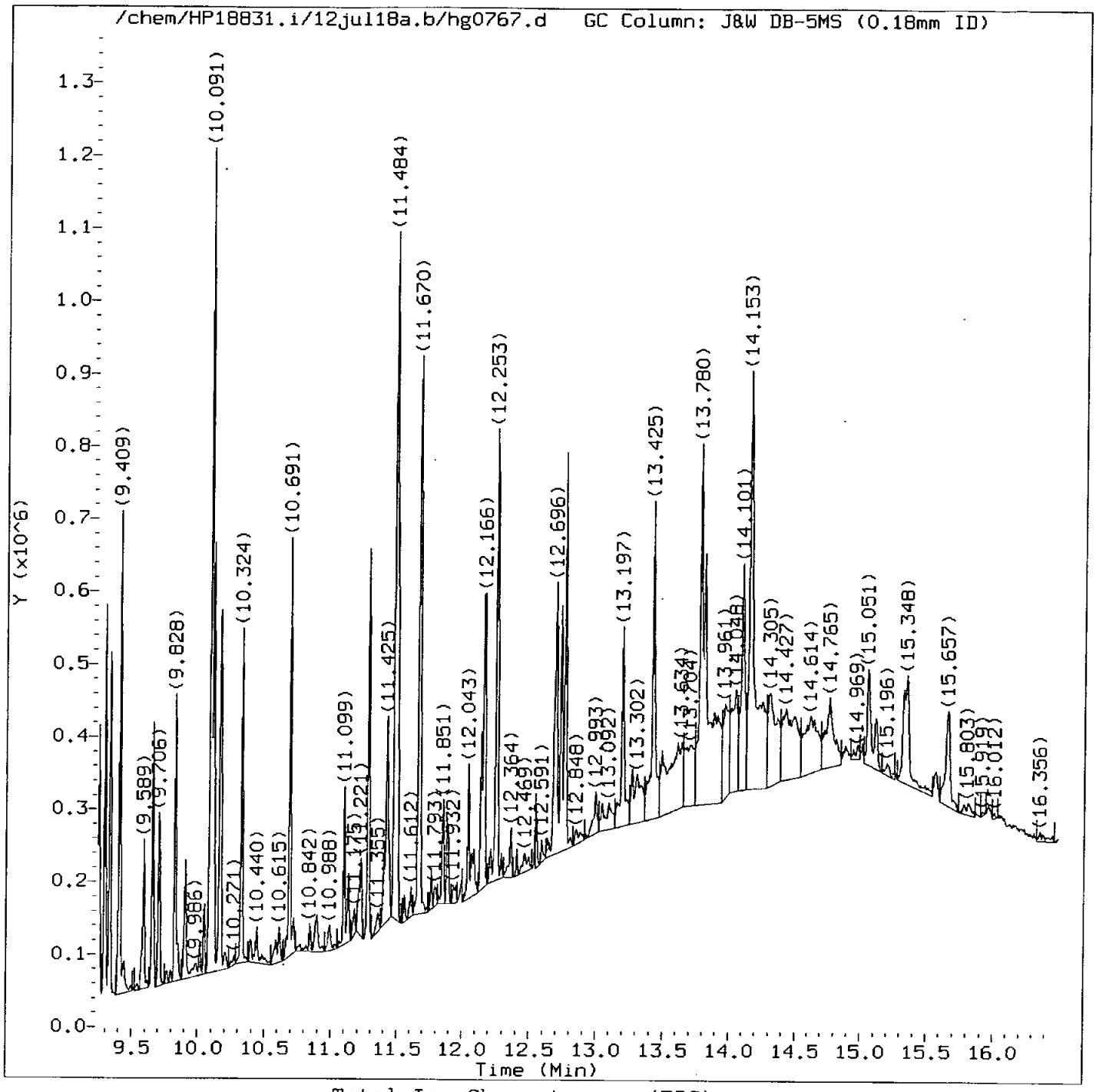
Date, time and analyst ID of latest file update: 20-Jul-2012 10:09 jmg00346

Sample Name: XXXXXMSD

Lab Sample ID: 6721497

Digitally signed by Joseph M. Gambler
on 07/20/2012 at 10:09.
Target 3.5 esignature user ID: jmg00346

ASX73 0894



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0767.d
Injection date and time: 19-JUL-2012 04:29

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 20-Jul-2012 10:09 jmg00346

Sample Name: XXXXXMSD

Lab Sample ID: 6721497

Digitally signed by Joseph M. Gambler
on 07/20/2012 at 10:09.
Target 3.5 esignature user ID: jmg00346

ASX73 0895

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0767.d
Injection date and time: 19-JUL-2012 04:29

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 20-Jul-2012 10:09 jmg00346

Sample Name: XXXXXMSD

Lab Sample ID: 6721497

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.408	112	298652	33.197
15)$Phenol-d6	(1)	5.346	99	409777	32.161
16) Phenol	(1)	5.358	94	123129	8.173
18) bis(2-Chloroethyl)ether	(1)	5.439	93	91306	8.143
19) 2-Chlorophenol	(1)	5.480	128	67463	8.085
20) 1,3-Dichlorobenzene	(1)	5.626	146	64927	7.713
21)*1,4-Dichlorobenzene-d4	(1)	5.684	152	106767	20.000
22) 1,4-Dichlorobenzene	(1)	5.702	146	67088	7.806
25) 1,2-Dichlorobenzene	(1)	5.841	146	63616	7.953
26) 2-Methylphenol	(1)	5.941	108	78305	8.138
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.964	45	100555	7.658
31) N-Nitroso-di-n-propylamine	(1)	6.086	70	71581	8.085
33) 4-Methylphenol	(1)	6.092	108	89587	8.595
37) Hexachloroethane	(1)	6.174	117	27822	7.321
38)$Nitrobenzene-d5	(2)	6.220	82	189580	16.109
39) Nitrobenzene	(2)	6.238	77	102662	8.380
41) Isophorone	(2)	6.477	82	187056	8.131
42) 2-Nitrophenol	(2)	6.547	139	35226	8.139
44) 2,4-Dimethylphenol	(2)	6.605	107	81794	8.038
46) bis(2-Chloroethoxy)methane	(2)	6.698	93	110899	8.008
49) 2,4-Dichlorophenol	(2)	6.786	162	53110	8.137
50) 1,2,4-Trichlorobenzene	(2)	6.867	180	59365	8.230
52)*Naphthalene-d8	(2)	6.920	136	427509	20.000
53) Naphthalene	(2)	6.937	128	206097	8.461
56) 4-Chloroaniline	(2)	6.996	127	74232	7.502
60) Hexachlorobutadiene	(2)	7.066	225	30717	8.229
68) 4-Chloro-3-methylphenol	(2)	7.479	107	74721	8.354
70) 2-Methylnaphthalene	(2)	7.619	142	142648	9.590
72) Hexachlorocyclopentadiene	(3)	7.777	237	15648	5.208
75) 2,4,6-Trichlorophenol	(3)	7.899	196	37081	8.182
77) 2,4,5-Trichlorophenol	(3)	7.934	196	40152	8.017
78)$2-Fluorobiphenyl	(3)	7.981	172	280714	17.258
84) 2-Chloronaphthalene	(3)	8.091	162	118630	8.439
89) 2-Nitroaniline	(3)	8.196	138	42707	8.797
92) Dimethylphthalate	(3)	8.389	163	147581	8.961
94) 2,6-Dinitrotoluene	(3)	8.441	165	32476	8.720
95) Acenaphthylene	(3)	8.499	152	197362	9.249
97) 3-Nitroaniline	(3)	8.593	138	35947	8.449
98)*Acenaphthene-d10	(3)	8.639	164	243813	20.000
99) Acenaphthene	(3)	8.668	153	121603	8.323

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/20/2012 at 10:09.
Target 3.5 esignature user ID: jmg00346

ASX73 8896

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0767.d
Injection date and time: 19-JUL-2012 04:29

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 20-Jul-2012 10:09 jmg00346

Sample Name: XXXXXMSD

Lab Sample ID: 6721497

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
103) 4-Nitrophenol	(3)	8.773	109	21067	7.156
105) 2,4-Dinitrotoluene	(3)	8.832	165	40784	8.505
104) Dibenzofuran	(3)	8.837	168	182381	8.800
109) Diethylphthalate	(3)	9.082	149	149697	8.786
111) Fluorene	(3)	9.175	166	145363	8.775
112) 4-Chlorophenyl-phenylether	(3)	9.181	204	70177	8.782
114) 4-Nitroaniline	(3)	9.193	138	36005	8.395
117) N-Nitrosodiphenylamine	(4)	9.298	169	129881	9.290
119)$2,4,6-Tribromophenol	(3)	9.409	330	53358	34.242
125) 4-Bromophenyl-phenylether	(4)	9.659	248	34047	8.545
127) Hexachlorobenzene	(4)	9.712	284	27292	6.988
131) Pentachlorophenol	(4)	9.904	266	14922	5.945
135)*Phenanthrene-d10	(4)	10.091	188	395440	20.000
137) Phenanthrene	(4)	10.114	178	201948	8.864
138) Anthracene	(4)	10.166	178	195645	8.690
140) Carbazole	(4)	10.324	167	187457	8.733
142) Di-n-butylphthalate	(4)	10.691	149	233366	8.550
147) Fluoranthene	(4)	11.280	202	205939	9.113
167)*Pyrene-d10	(5)	11.484	212	379528	20.000
154) Pyrene	(5)	11.501	202	204304	9.379
156)$Terphenyl-d14	(5)	11.670	244	230504	18.139
161) Butylbenzylphthalate	(5)	12.166	149	84713	8.963
164) 3,3'-Dichlorobenzidine	(5)	12.678	252	39466	6.970
166) Benzo(a)anthracene	(5)	12.696	228	135378	8.468
168) Chrysene	(5)	12.731	228	134754	8.363
169) bis(2-Ethylhexyl)phthalate	(5)	12.760	149	109579	9.072
170) Di-n-octylphthalate	(6)	13.425	149	168167	8.938
172) Benzo(b)fluoranthene	(6)	13.780	252	122171	9.202
173) Benzo(k)fluoranthene	(6)	13.809	252	102549	7.804
174) Benzo(a)pyrene	(6)	14.101	252	98534M	8.276
175)*Perylene-d12	(6)	14.159	264	209825	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	15.325	276	100140	8.702
178) Dibenz(a,h)anthracene	(6)	15.348	278	80659	8.532
179) Benzo(g,h,i)perylene	(6)	15.657	276	84202	8.665

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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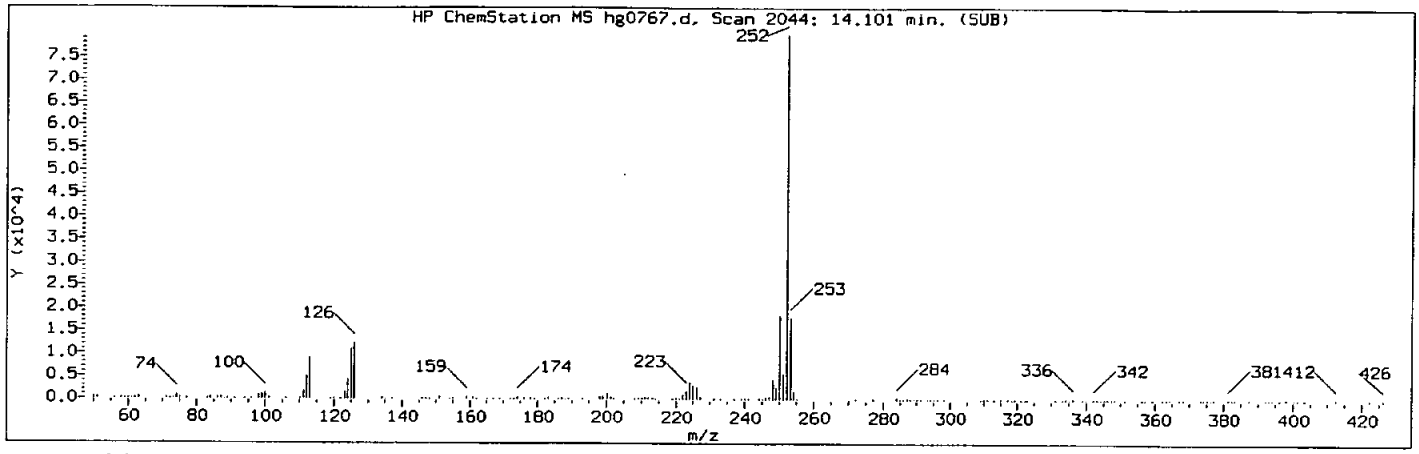
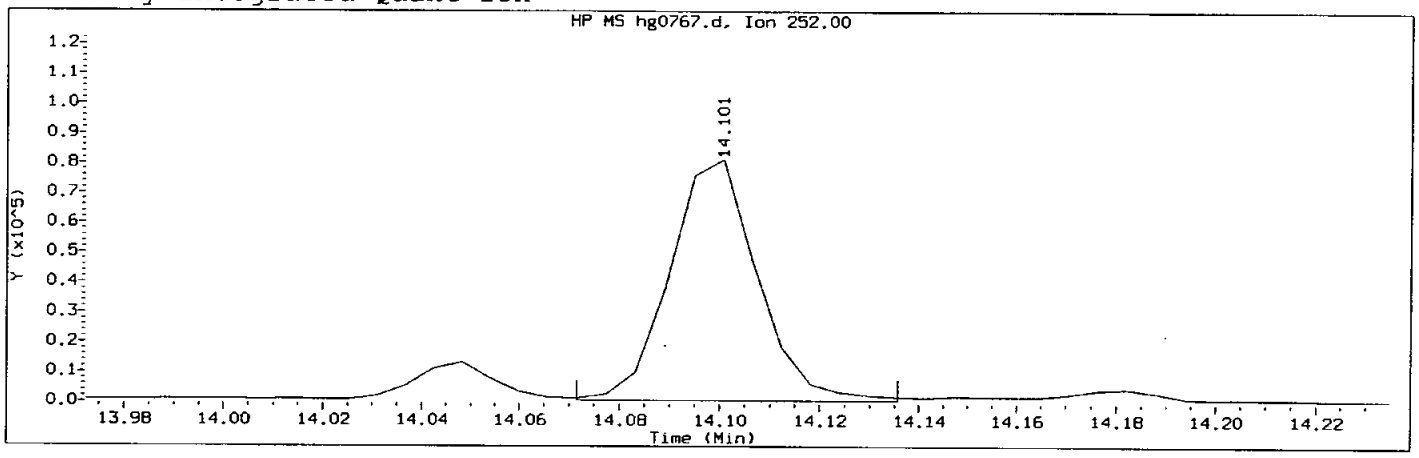
on 07/20/2012 at 10:09.
Target 3.5 esignature user ID: jmg00346

ASX73 0097

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0767.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:29 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: SL1874mic
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 20-Jul-2012 10:09 jmg00346

Sample Name: XXXXXMSD Lab Sample ID: 6721497

Compound Number	: 174		
Compound Name	: Benzo(a)pyrene		
Scan Number	: 2044		
Retention Time (minutes)	: 14.101		
Quant Ion	: 252.00		
Area (flag)	: 98534M		
On-Column Amount (ng/ul)	: 8.2762		
Integration start scan	: 2038	Integration stop scan:	2049
Y at integration start	: 633	Y at integration end:	625

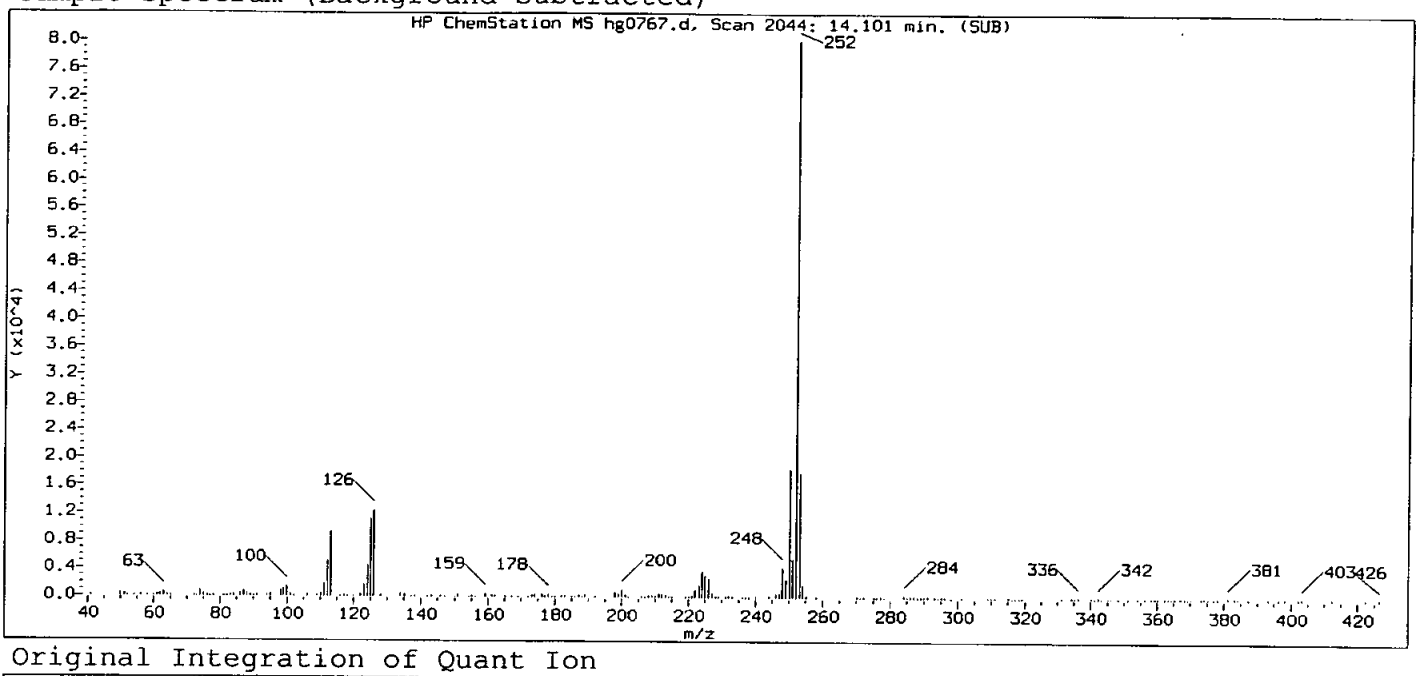
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Joseph M. Gambler on 07/20/2012 at 10:09. Target 3.5 esignature user ID: jmg00346

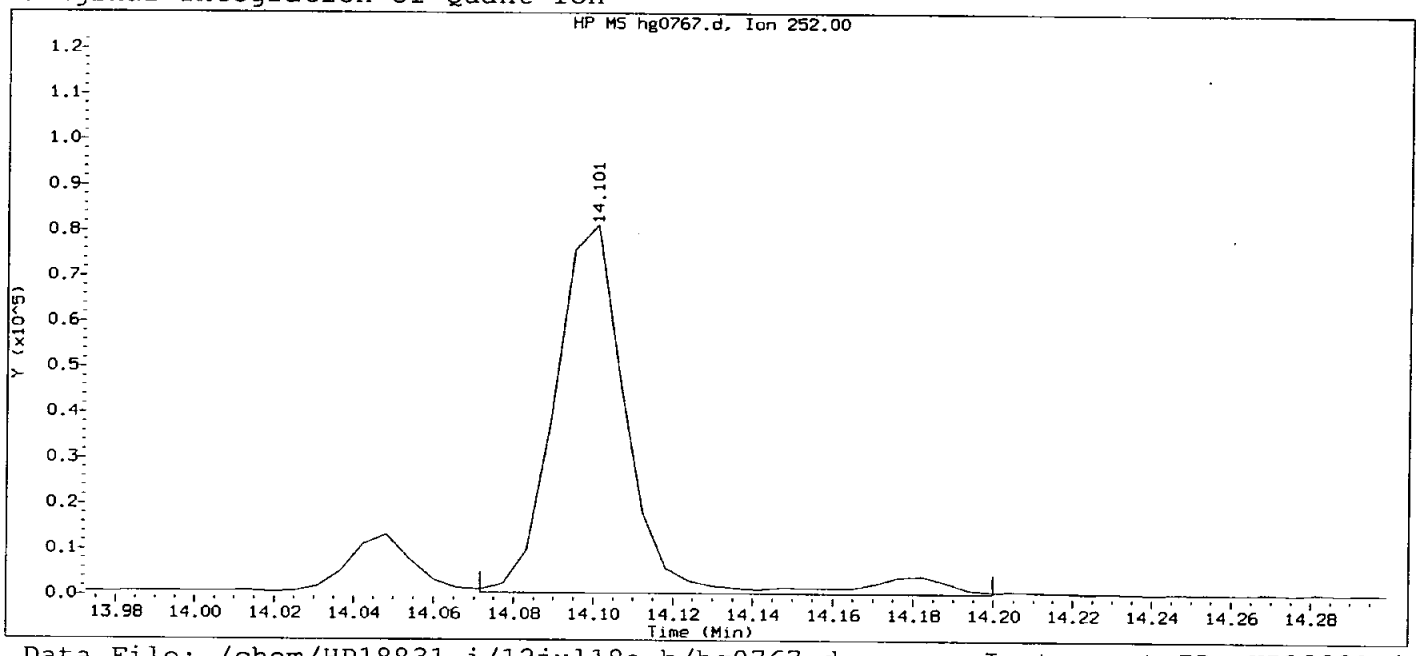
Secondary review performed and digitally signed by Irene L. Dodd on 07/20/2012 at 10:37. Parallax ID: ild00415

ASX73 0898

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP18831.i/12jul18a.b/hg0767.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 04:29 Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: newall1
Calibration date and time: 18-JUL-2012 21:44
Date, time and analyst ID of latest file update: 19-Jul-2012 04:47 Automation

Sample Name: XXXXXMSD Lab Sample ID: 6721497

Compound Number	:	174
Compound Name	:	Benzo(a)pyrene
Scan Number	:	2044
Retention Time (minutes)	:	14.101
Quant Ion	:	252.00
Area	:	105004
On-column Amount (ng/ul)	:	8.8197
Integration start scan	:	2038 Integration stop scan: 2060
Y at integration start	:	633 Y at integration end: 616

Digitally signed by Joseph M. Gambler on 07/20/2012 at 10:09.
Target 3.5 esignature user ID: jmg00346

199LHLCS8 Lancaster Labs 199LHLCS

Analysis Summary for GC/MS Semivolatiles

Data file: /chem/HP18831.i/12jul18a.b/hg0764.d
Data file Sample Info. Line: 199LHLCS8;199LHLCS;
Date, time and analyst ID of latest file update: 19-Jul-2012 01:26 bkg00522

Injection date and time: **19-JUL-2012 01:07**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 1
Final Extract Volume (Vt): 1000 ul

GpcCleanup (No = 0, Yes = 1): 0
Volume Injected (Vi): 1 ul

Unit Correction Factor (Uf): 1
Sample Weight (Ws): 30 g

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	5.684	(0.000)	600	152	127923	(8)	20.00	
52) Naphthalene-d8	6.920	(0.000)	812	136	526310	(5)	20.00	
98) Acenaphthene-d10	8.639	(0.000)	1107	164	310664	(5)	20.00	
135) Phenanthrene-d10	10.090	(0.006)	1356	188	523743	(5)	20.00	
167) Pyrene-d10	11.483	(0.000)	1595	212	574151	(4)	20.00	
175) Perylene-d12	14.153	(0.000)	2053	264	342083	(-6)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
9) 2-Fluorophenol	(1)	4.425	(-0.004)	112	2015908	187.022	94%		48 - 136
15) Phenol-d6	(1)	5.358	(-0.002)	99	2791910	182.881	91%		42 - 130
38) Nitrobenzene-d5	(2)	6.232	(-0.001)	82	1295885	89.445	89%		45 - 123
78) 2-Fluorobiphenyl	(3)	7.992	(-0.001)	172	1879651	90.692	91%		56 - 121
119) 2,4,6-Tribromophenol	(3)	9.420	(-0.001)	330	391142	196.997	98%		28 - 139
156) Terphenyl-d14	(5)	11.676	(-0.001)	244	1901284	98.902	99%		36 - 135

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
16) Phenol	(1)	5.369	(-0.002)	94	826285	45.774	1525.81			0.5
18) bis(2-Chloroethyl)ether	(1)	5.451	(-0.001)	93	615295	45.800	1526.68			0.5
19) 2-Chlorophenol	(1)	5.480	(0.000)	128	483381	48.349	1611.64			0.5
20) 1,3-Dichlorobenzene	(1)	5.631	(-0.001)	146	445226	44.146	1471.54			0.5
22) 1,4-Dichlorobenzene	(1)	5.701	(0.000)	146	454574	44.145	1471.50			0.5
25) 1,2-Dichlorobenzene	(1)	5.847	(-0.000)	146	430371	44.904	1496.81			0.5
26) 2-Methylphenol	(1)	5.946	(0.000)	108	553374	48.001	1600.02			0.5
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.964	(0.000)	45	656736	41.746	1391.54			0.5
31) N-Nitroso-di-n-propylamine	(1)	6.098	(-0.000)	70	469831	44.291	1476.38			0.5
33) 4-Methylphenol	(1)	6.098	(-0.001)	108	608277	48.708	1623.60			0.5
37) Hexachloroethane	(1)	6.174	(0.000)	117	198325	43.555	1451.85			1
39) Nitrobenzene	(2)	6.249	(-0.000)	77	682393	45.243	1508.11			0.5
41) Isophorone	(2)	6.482	(0.000)	82	1280232	45.204	1506.81			0.5
42) 2-Nitrophenol	(2)	6.552	(-0.000)	139	250750	47.059	1568.62			0.5
44) 2,4-Dimethylphenol	(2)	6.605	(0.000)	107	611456	48.806	1626.88			0.5
46) bis(2-Chloroethoxy)methane	(2)	6.704	(0.000)	93	751476	44.075	1469.17			0.5
49) 2,4-Dichlorophenol	(2)	6.791	(-0.000)	162	390170	48.559	1618.62			0.5
50) 1,2,4-Trichlorobenzene	(2)	6.867	(0.000)	180	398436	44.867	1495.57			0.5
53) Naphthalene	(2)	6.943	(-0.000)	128	1332989	44.453	1481.77			0.1
56) 4-Chloroaniline	(2)	7.001	(-0.000)	127	345292	28.346	944.87			0.5
60) Hexachlorobutadiene	(2)	7.065	(0.000)	225	204691	44.540	1484.66			0.5
68) 4-Chloro-3-methylphenol	(2)	7.485	(-0.000)	107	539585	49.003	1633.43			0.5
70) 2-Methylnaphthalene	(2)	7.619	(-0.000)	142	900916	49.198	1639.94			0.1
72) Hexachlorocyclopentadiene	(3)	7.776	(0.000)	237	390014	101.866	3395.55			5
75) 2,4,6-Trichlorophenol	(3)	7.899	(0.000)	196	278648	48.253	1608.43			0.5
77) 2,4,5-Trichlorophenol	(3)	7.940	(-0.000)	196	299775	46.977	1565.91			0.5
84) 2-Chloronaphthalene	(3)	8.097	(0.000)	162	842793	47.052	1568.42			0.2

Digitally signed by Brian K. Graham on 07/19/2012 at 01:27. Target 3.5 esignature user ID: bkg00522

ASX73 0900

199LHLCS8 Lancaster Labs Analysis Summary for GC/MS Semivolatiles 199LHLCS

Data file: /chem/HP18831.i/12jul18a.b/hg0764.d
Data file Sample Info. Line: 199LHLCS8;199LHLCS;
Date, time and analyst ID of latest file update: 19-Jul-2012 01:26 bkg00522

Injection date and time: **19-JUL-2012 01:07**
Instrument ID: **HP18831.i** Batch: **12199SLH**

Blank Data file reference: **/chem/HP18831.i/12jul18a.b/hg0763.d**

Method used: /chem/HP18831.i/12jul18a.b/m8270.m Sublist used: **SL1874mic**
Calibration date and time (Last Method Edit): 18-JUL-2012 21:44
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul18a.b/hg0741.d**

Matrix: SOIL Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/Kg

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws)

Dilution Factor (DF): 1
Final Extract Volume (Vt): 1000 ul
GpcCleanup (No = 0, Yes = 1): 0
Volume Injected (Vi): 1 ul
Unit Correction Factor (Uf): 1
Sample Weight (Ws): 30 g

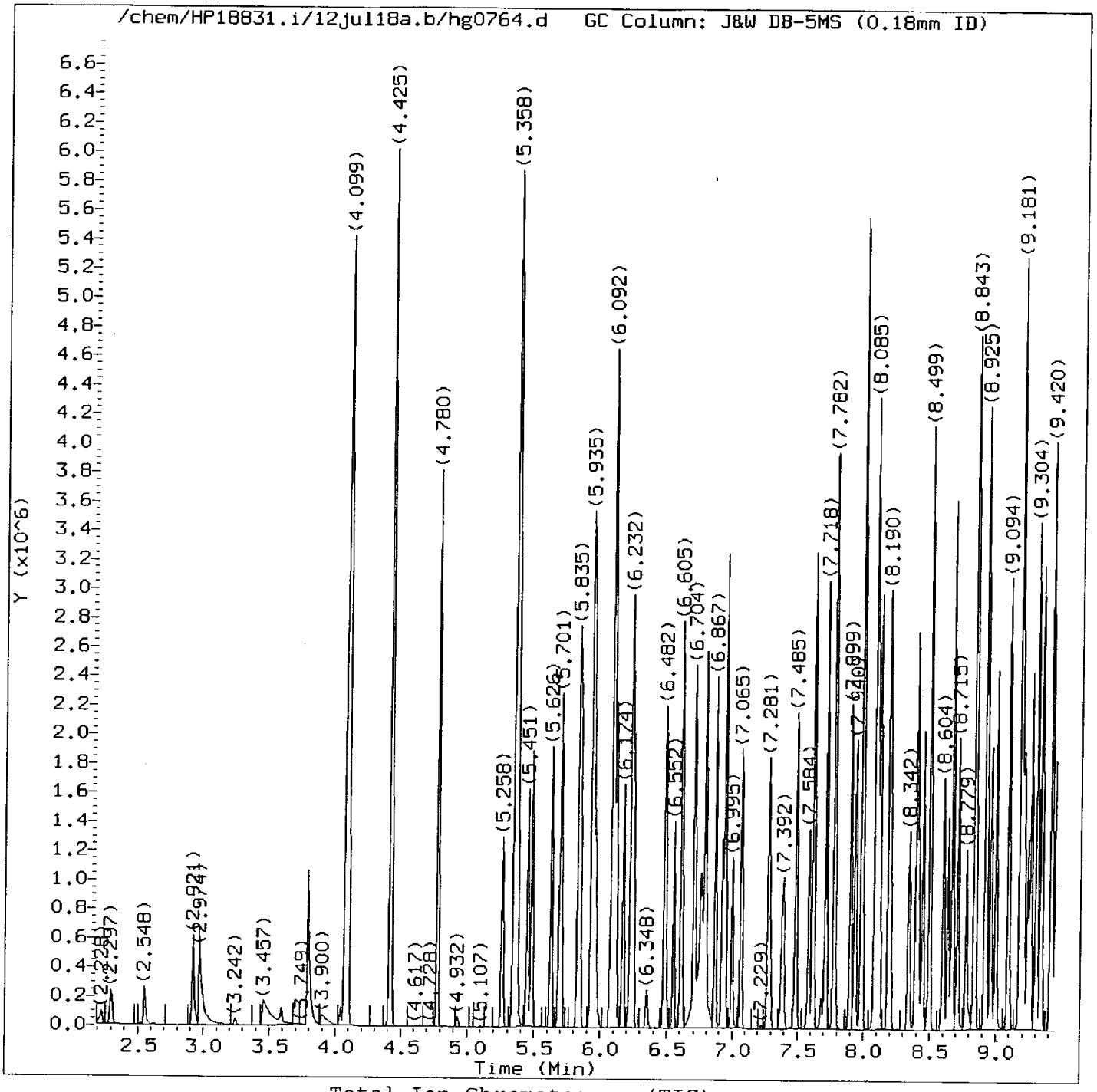
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
89) 2-Nitroaniline	(3)	8.202(0.000)	138	308345	49.847	1661.56			0.5
92) Dimethylphthalate	(3)	8.394(-0.000)	163	985577	46.965	1565.52			2
94) 2,6-Dinitrotoluene	(3)	8.447(-0.000)	165	236703	49.882	1662.72			0.5
95) Acenaphthylene	(3)	8.499(0.000)	152	1338323	49.224	1640.79			0.1
97) 3-Nitroaniline	(3)	8.604(-0.000)	138	266673	49.192	1639.72			2
99) Acenaphthene	(3)	8.674(-0.000)	153	872764	46.880	1562.66			0.1
100) 2,4-Dinitrophenol	(3)	8.715(-0.000)	184	268874	92.996	3099.88			10
103) 4-Nitrophenol	(3)	8.779(-0.000)	109	168218	44.846	1494.86			5
104) Dibenzofuran	(3)	8.843(-0.000)	168	1241012	46.994	1566.46			0.5
105) 2,4-Dinitrotoluene	(3)	8.843(-0.000)	165	299475	49.012	1633.73			2
109) Diethylphthalate	(3)	9.094(-0.000)	149	1027857	47.347	1578.23			2
111) Fluorene	(3)	9.175(-0.000)	166	1010835	47.888	1596.28			0.1
112) 4-Chlorophenyl-phenylether	(3)	9.187(-0.000)	204	473648	46.516	1550.54			0.5
114) 4-Nitroaniline	(3)	9.210(-0.000)	138	217279	39.759	1325.29			2
115) 4,6-Dinitro-2-methylphenol	(4)	9.239(-0.001)	198	174391	46.455	1548.50			5
117) N-Nitrosodiphenylamine	(4)	9.304(-0.000)	169	894717	48.318	1610.59			0.5
125) 4-Bromophenyl-phenylether	(4)	9.665(-0.000)	248	247071	46.817	1560.58			0.5
127) Hexachlorobenzene	(4)	9.712(-0.000)	284	242589	46.895	1563.16			0.1
131) Pentachlorophenol	(4)	9.904(0.000)	266	166886	50.200	1673.32			1
137) Phenanthrene	(4)	10.120(-0.000)	178	1396965	46.294	1543.13			0.1
138) Anthracene	(4)	10.166(-0.000)	178	1424450	47.772	1592.39			0.1
140) Carbazole	(4)	10.329(-0.000)	167	1381785	48.603	1620.08			0.5
142) Di-n-butylphthalate	(4)	10.691(-0.000)	149	1688208	46.698	1556.61			2
147) Fluoranthene	(4)	11.285(-0.001)	202	1499112	50.086	1669.53			0.1
154) Pyrene	(5)	11.507(-0.000)	202	1535079	46.585	1552.85			0.1
161) Butylbenzylphthalate	(5)	12.165(-0.000)	149	687729	48.099	1603.31			2
164) 3,3'-Dichlorobenzidine	(5)	12.684(-0.000)	252	305459	35.661	1188.69			3
166) Benzo(a)anthracene	(5)	12.702(-0.000)	228	1189093	49.168	1638.94			0.1
168) Chrysene	(5)	12.736(-0.000)	228	1104726	45.321	1510.69			0.1
169) bis(2-Ethylhexyl)phthalate	(5)	12.760(-0.000)	149	874750	47.869	1595.64			2
170) Di-n-octylphthalate	(6)	13.424(0.000)	149	1436963	46.848	1561.61			2
172) Benzo(b)fluoranthene	(6)	13.792(-0.000)	252	993993	45.921	1530.70			0.1
173) Benzo(k)fluoranthene	(6)	13.815(-0.000)	252	1000553	46.701	1556.69			0.1
174) Benzo(a)pyrene	(6)	14.100(0.000)	252	966852	49.812	1660.39			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	15.330(-0.000)	276	980499	52.260	1742.01			0.1
178) Dibenz(a,h)anthracene	(6)	15.354(-0.000)	278	812055	52.687	1756.22			0.1
179) Benzo(g,h,i)perylene	(6)	15.662(-0.000)	276	812457	51.284	1709.48			0.1

Total number of targets = 64

Digitally signed by Brian K. Graham on 07/19/2012 at 01:27. Target 3.5 esignature user ID: bkg00522

Secondary review performed and digitally signed by Irene L. Dodd on 07/19/2012 at 13:59 Parallax ID: ild00415

ASX73 0991



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0764.d
Injection date and time: 19-JUL-2012 01:07

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

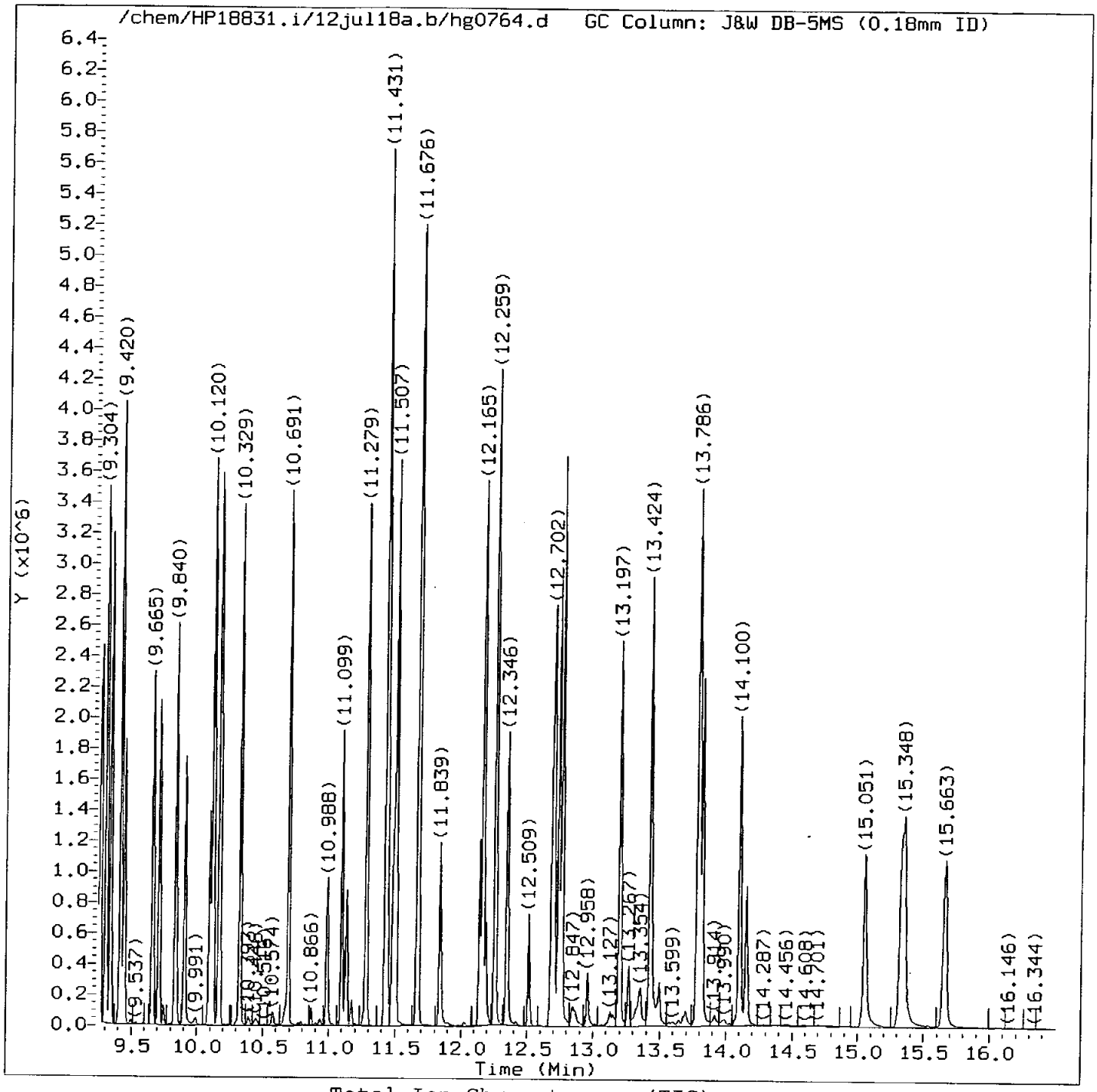
Date, time and analyst ID of latest file update: 19-Jul-2012 01:26 bkg00522

Sample Name: 199LHLCS8

Lab Sample ID: 199LHLCS

Digitally signed by Brian K. Graham
on 07/19/2012 at 01:27.
Target 3.5 esignature user ID: bkg00522

ASX73 8982



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0764.d
Injection date and time: 19-JUL-2012 01:07

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 01:26 bkg00522

Sample Name: 199LHLCS8

Lab Sample ID: 199LHLCS

Digitally signed by Brian K. Graham
on 07/19/2012 at 01:27
Target 3.5 esignature user ID: bkg00522

0SX73 0993

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0764.d
Injection date and time: 19-JUL-2012 01:07

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 01:26 bkg00522

Sample Name: 199LHLCS8

Lab Sample ID: 199LHLCS

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.425	112	2015908	187.022
15)$Phenol-d6	(1)	5.358	99	2791910	182.881
16) Phenol	(1)	5.369	94	826285	45.774
18) bis(2-Chloroethyl)ether	(1)	5.451	93	615295	45.800
19) 2-Chlorophenol	(1)	5.480	128	483381	48.349
20) 1,3-Dichlorobenzene	(1)	5.631	146	445226	44.146
21)*1,4-Dichlorobenzene-d4	(1)	5.684	152	127923	20.000
22) 1,4-Dichlorobenzene	(1)	5.701	146	454574	44.145
25) 1,2-Dichlorobenzene	(1)	5.847	146	430371	44.904
26) 2-Methylphenol	(1)	5.946	108	553374	48.001
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.964	45	656736	41.746
31) N-Nitroso-di-n-propylamine	(1)	6.098	70	469831	44.291
33) 4-Methylphenol	(1)	6.098	108	608277	48.708
37) Hexachloroethane	(1)	6.174	117	198325	43.555
38)$Nitrobenzene-d5	(2)	6.232	82	1295885	89.445
39) Nitrobenzene	(2)	6.249	77	682393	45.243
41) Isophorone	(2)	6.482	82	1280232	45.204
42) 2-Nitrophenol	(2)	6.552	139	250750	47.059
44) 2,4-Dimethylphenol	(2)	6.605	107	611456	48.806
46) bis(2-Chloroethoxy)methane	(2)	6.704	93	751476	44.075
49) 2,4-Dichlorophenol	(2)	6.791	162	390170	48.559
50) 1,2,4-Trichlorobenzene	(2)	6.867	180	398436	44.867
52)*Naphthalene-d8	(2)	6.920	136	526310	20.000
53) Naphthalene	(2)	6.943	128	1332989	44.453
56) 4-Chloroaniline	(2)	7.001	127	345292	28.346
60) Hexachlorobutadiene	(2)	7.065	225	204691	44.540
68) 4-Chloro-3-methylphenol	(2)	7.485	107	539585	49.003
70) 2-Methylnaphthalene	(2)	7.619	142	900916	49.198
72) Hexachlorocyclopentadiene	(3)	7.776	237	390014	101.866
75) 2,4,6-Trichlorophenol	(3)	7.899	196	278648	48.253
77) 2,4,5-Trichlorophenol	(3)	7.940	196	299775	46.977
78)$2-Fluorobiphenyl	(3)	7.992	172	1879651	90.692
84) 2-Chloronaphthalene	(3)	8.097	162	842793	47.052
89) 2-Nitroaniline	(3)	8.202	138	308345	49.847
92) Dimethylphthalate	(3)	8.394	163	985577	46.965
94) 2,6-Dinitrotoluene	(3)	8.447	165	236703	49.882
95) Acenaphthylene	(3)	8.499	152	1338323	49.224
97) 3-Nitroaniline	(3)	8.604	138	266673	49.192
98)*Acenaphthene-d10	(3)	8.639	164	310664	20.000
99) Acenaphthene	(3)	8.674	153	872764	46.880

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Brian K. Graham
on 07/19/2012 at 01:27.
Target 3.5 esignature user ID: bkg00522

ASX73 0984

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul18a.b/hg0764.d
Injection date and time: 19-JUL-2012 01:07

Instrument ID: HP18831.i
Analyst ID: hb01996

Method used: /chem/HP18831.i/12jul18a.b/m8270.m
Calibration date and time: 18-JUL-2012 21:44

Sublist used: SL1874mic

Date, time and analyst ID of latest file update: 19-Jul-2012 01:26 bkg00522

Sample Name: 199LHLCS8

Lab Sample ID: 199LHLCS

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
100) 2,4-Dinitrophenol	(3)	8.715	184	268874	92.996
103) 4-Nitrophenol	(3)	8.779	109	168218	44.846
105) 2,4-Dinitrotoluene	(3)	8.843	165	299475	49.012
104) Dibenzofuran	(3)	8.843	168	1241012	46.994
109) Diethylphthalate	(3)	9.094	149	1027857	47.347
111) Fluorene	(3)	9.175	166	1010835	47.888
112) 4-Chlorophenyl-phenylether	(3)	9.187	204	473648	46.516
114) 4-Nitroaniline	(3)	9.210	138	217279	39.759
115) 4,6-Dinitro-2-methylphenol	(4)	9.239	198	174391	46.455
117) N-Nitrosodiphenylamine	(4)	9.304	169	894717	48.318
119)$2,4,6-Tribromophenol	(3)	9.420	330	391142	196.997
125) 4-Bromophenyl-phenylether	(4)	9.665	248	247071	46.817
127) Hexachlorobenzene	(4)	9.712	284	242589	46.895
131) Pentachlorophenol	(4)	9.904	266	166886	50.200
135)*Phenanthrene-d10	(4)	10.090	188	523743	20.000
137) Phenanthrene	(4)	10.120	178	1396965	46.294
138) Anthracene	(4)	10.166	178	1424450	47.772
140) Carbazole	(4)	10.329	167	1381785	48.603
142) Di-n-butylphthalate	(4)	10.691	149	1688208	46.698
147) Fluoranthene	(4)	11.285	202	1499112	50.086
167)*Pyrene-d10	(5)	11.483	212	574151	20.000
154) Pyrene	(5)	11.507	202	1535079	46.585
156)$Terphenyl-d14	(5)	11.676	244	1901284	98.902
161) Butylbenzylphthalate	(5)	12.165	149	687729	48.099
164) 3,3'-Dichlorobenzidine	(5)	12.684	252	305459	35.661
166) Benzo(a)anthracene	(5)	12.702	228	1189093	49.168
168) Chrysene	(5)	12.737	228	1104726	45.321
169) bis(2-Ethylhexyl)phthalate	(5)	12.760	149	874750	47.869
170) Di-n-octylphthalate	(6)	13.424	149	1436963	46.848
172) Benzo(b)fluoranthene	(6)	13.792	252	993993	45.921
173) Benzo(k)fluoranthene	(6)	13.815	252	1000553	46.701
174) Benzo(a)pyrene	(6)	14.100	252	966852	49.812
175)*Perylene-d12	(6)	14.153	264	342083	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	15.330	276	980499	52.260
178) Dibenz(a,h)anthracene	(6)	15.354	278	812055	52.687
179) Benzo(g,h,i)perylene	(6)	15.663	276	812457	51.284

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Brian K. Graham
on 07/19/2012 at 01:27.
Target 3.5 esignature user ID: bkg00522

ASX73 0905

200WCLCS8 Lancaster Labs Analysis Summary for GC/MS Semivolatiles 200WCLCS

Data file: /chem/HP18831.i/12jul19.b/hg0813.d
Data file Sample Info. Line: 200WCLCS8;200WCLCS;
Date, time and analyst ID of latest file update: 19-Jul-2012 08:16 jmg00346

Injection date and time: **19-JUL-2012 07:33**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **200WACqc**
Calibration date and time (Last Method Edit): 19-JUL-2012 08:06
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1000 ml Volume Injected (Vi): 1 ul

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	5.661(0.000)	596	152	88663 (14)	20.00	
52) Naphthalene-d8	6.896(0.000)	808	136	361139 (12)	20.00	
98) Acenaphthene-d10	8.610(0.000)	1102	164	218770 (10)	20.00	
135) Phenanthrene-d10	10.067(0.000)	1352	188	392028 (7)	20.00	
167) Pyrene-d10	11.454(0.000)	1590	212	434069 (0)	20.00	
175) Perylene-d12	14.118(0.000)	2047	264	275049 (-8)	20.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
9) 2-Fluorophenol	(1)	4.384(-0.001)	112	823220	110.191	55%		10 - 98
15) Phenol-d6	(1)	5.323(-0.001)	99	768101	72.593	36%		10 - 74
38) Nitrobenzene-d5	(2)	6.203(-0.001)	82	815414	82.023	82%		52 - 120
78) 2-Fluorobiphenyl	(3)	7.963(-0.001)	172	1213171	83.123	83%		63 - 114
119) 2,4,6-Tribromophenol	(3)	9.391(-0.001)	330	275032	196.703	98%		22 - 150
156) Terphenyl-d14	(5)	11.647(0.000)	244	1369903	94.258	94%		34 - 118

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
12) Benzaldehyde	(1)	5.235(0.000)	77	206032	28.652	28.65			1
16) Phenol	(1)	5.334(0.000)	94	266227	21.279	21.28			0.5
18) bis(2-Chloroethyl)ether	(1)	5.422(-0.001)	93	390131	41.899	41.90			0.5
19) 2-Chlorophenol	(1)	5.451(-0.000)	128	297313	42.906	42.91			0.5
20) 1,3-Dichlorobenzene	(1)	5.602(0.000)	146	265761	38.020	38.02			0.5
22) 1,4-Dichlorobenzene	(1)	5.678(0.000)	146	274804	38.504	38.50			0.5
25) 1,2-Dichlorobenzene	(1)	5.818(0.000)	146	263192	39.621	39.62			0.5
26) 2-Methylphenol	(1)	5.917(0.001)	108	321015	40.175	40.18			0.5
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.940(0.000)	45	421559	38.662	38.66			0.5
30) Acetophenone	(1)	6.057(0.000)	105	499973	41.067	41.07			0.5
31) N-Nitroso-di-n-propylamine	(1)	6.069(0.000)	70	305894	41.606	41.61			0.5
33) 4-Methylphenol	(1)	6.069(0.000)	108	337632	39.008	39.01			0.5
37) Hexachloroethane	(1)	6.150(0.000)	117	115428	36.575	36.57			1
39) Nitrobenzene	(2)	6.220(-0.000)	77	448117	43.299	43.30			0.5
41) Isophorone	(2)	6.459(0.000)	82	850963	43.789	43.79			0.5
42) 2-Nitrophenol	(2)	6.529(-0.000)	139	167632	45.848	45.85			0.5
44) 2,4-Dimethylphenol	(2)	6.582(0.000)	107	385093	44.797	44.80			0.5
46) bis(2-Chloroethoxy)methane	(2)	6.675(0.000)	93	478841	40.930	40.93			0.5
49) 2,4-Dichlorophenol	(2)	6.762(0.000)	162	252828	45.857	45.86			0.5
50) 1,2,4-Trichlorobenzene	(2)	6.844(0.000)	180	246890	40.517	40.52			0.5
53) Naphthalene	(2)	6.920(-0.000)	128	845031	41.069	41.07			0.1
56) 4-Chloroaniline	(2)	6.972(0.000)	127	366674	43.869	43.87			0.5
60) Hexachlorobutadiene	(2)	7.042(0.000)	225	124554	39.498	39.50			0.5
63) Caprolactam	(2)	7.334(0.000)	113	41011	14.080	14.08			5
68) 4-Chloro-3-methylphenol	(2)	7.456(0.000)	107	359206	47.541	47.54			0.5
70) 2-Methylnaphthalene	(2)	7.596(0.000)	142	585518	46.599	46.60			0.1
72) Hexachlorocyclopentadiene	(3)	7.753(-0.000)	237	229174	85.000	85.00			5

Digitally signed by Joseph M. Gambler on 07/19/2012 at 08:19. Target 3.5 esignature user ID: jmg00346

ASX73 8986

200WCLCS8 Lancaster Labs
Analysis Summary for GC/MS Semivolatiles 200WCLCS

Data file: /chem/HP18831.i/12jul19.b/hg0813.d
Data file Sample Info. Line: 200WCLCS8;200WCLCS;
Date, time and analyst ID of latest file update: 19-Jul-2012 08:16 jmg00346

Injection date and time: **19-JUL-2012 07:33**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **200WACqc**
Calibration date and time (Last Method Edit): 19-JUL-2012 08:06
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1000 ml Volume Injected (Vi): 1 ul

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
75) 2,4,6-Trichlorophenol	(3)	7.876(-0.000)	196	199198	48.984	48.98			0.5
77) 2,4,5-Trichlorophenol	(3)	7.911(-0.000)	196	209455	46.611	46.61			0.5
83) 1,1'-Biphenyl	(3)	8.056(-0.000)	154	739838	42.617	42.62			0.5
84) 2-Chloronaphthalene	(3)	8.074(-0.000)	162	513510	40.711	40.71			0.4
89) 2-Nitroaniline	(3)	8.173(-0.000)	138	217924	50.027	50.03			0.5
92) Dimethylphthalate	(3)	8.371(-0.000)	163	659188	44.607	44.61			2
94) 2,6-Dinitrotoluene	(3)	8.418(-0.000)	165	164717	49.292	49.29			0.5
95) Acenaphthylene	(3)	8.476(-0.000)	152	912607	47.665	47.67			0.1
97) 3-Nitroaniline	(3)	8.581(-0.000)	138	197668	51.779	51.78			0.5
99) Acenaphthene	(3)	8.645(0.000)	153	590377	45.032	45.03			0.1
100) 2,4-Dinitrophenol	(3)	8.686(-0.000)	184	217901	107.024	107.02			10
103) 4-Nitrophenol	(3)	8.750(0.000)	109	56251	21.295	21.30			10
104) Dibenzofuran	(3)	8.814(0.000)	168	838472	45.087	45.09			0.5
105) 2,4-Dinitrotoluene	(3)	8.814(-0.000)	165	211866	49.239	49.24			1
109) Diethylphthalate	(3)	9.065(-0.000)	149	707629	46.288	46.29			2
111) Fluorene	(3)	9.152(-0.000)	166	703224	47.309	47.31			0.1
112) 4-Chlorophenyl-phenylether	(3)	9.158(0.000)	204	325479	45.392	45.39			0.5
114) 4-Nitroaniline	(3)	9.181(-0.000)	138	177314	46.074	46.07			0.5
115) 4,6-Dinitro-2-methylphenol	(4)	9.210(-0.000)	198	131959	46.962	46.96			5
117) N-Nitrosodiphenylamine	(4)	9.280(-0.000)	169	623971	45.018	45.02			0.5
125) 4-Bromophenyl-phenylether	(4)	9.636(0.000)	248	170616	43.192	43.19			0.5
127) Hexachlorobenzene	(4)	9.688(-0.000)	284	166815	43.081	43.08			0.1
130) Atrazine	(4)	9.811(0.000)	200	197942	53.318	53.32		E	2
131) Pentachlorophenol	(4)	9.881(-0.000)	266	128106	51.481	51.48			1
137) Phenanthrene	(4)	10.090(0.000)	178	1020575	45.184	45.18			0.1
138) Anthracene	(4)	10.143(-0.000)	178	1038480	46.529	46.53			0.1
140) Carbazole	(4)	10.300(0.000)	167	1019923	47.928	47.93			0.5
142) Di-n-butylphthalate	(4)	10.668(0.000)	149	1225974	45.306	45.31			2
147) Fluoranthene	(4)	11.256(-0.000)	202	1137666	50.780	50.78			0.1
154) Pyrene	(5)	11.478(-0.000)	202	1134992	45.559	45.56			0.1
161) Butylbenzylphthalate	(5)	12.136(0.000)	149	520928	48.191	48.19			2
164) 3,3'-Dichlorobenzidine	(5)	12.655(-0.000)	252	296189	45.738	45.74			2
166) Benzo(a)anthracene	(5)	12.673(-0.000)	228	927156	50.709	50.71			0.1
168) Chrysene	(5)	12.708(-0.000)	228	844455	45.823	45.82			0.1
169) bis(2-Ethylhexyl)phthalate	(5)	12.731(0.000)	149	678943	49.144	49.14			2
170) Di-n-octylphthalate	(6)	13.395(-0.000)	149	1137870	46.138	46.14			2
172) Benzo(b)fluoranthene	(6)	13.757(-0.000)	252	786973	45.218	45.22			0.1
173) Benzo(k)fluoranthene	(6)	13.786(-0.000)	252	797725	46.308	46.31			0.1
174) Benzo(a)pyrene	(6)	14.072(-0.000)	252	749736	48.040	48.04			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	15.284(-0.000)	276	764637	50.688	50.69			0.1
178) Dibenz(a,h)anthracene	(6)	15.307(-0.000)	278	641396	51.756	51.76			0.1
179) Benzo(g,h,i)perylene	(6)	15.616(-0.000)	276	638106	50.096	50.10			0.1

E = Compound concentration above calibration range.

Digitally signed by Joseph M. Gambler on 07/19/2012 at 08:19. Target 3.5 esignature user ID: jmg00346

ASX73 0997

200WCLCS8 Lancaster Labs Analysis Summary for GC/MS Semivolatiles 200WCLCS

Data file: /chem/HP18831.i/12jul19.b/hg0813.d
Data file Sample Info. Line: 200WCLCS8;200WCLCS;
Date, time and analyst ID of latest file update: 19-Jul-2012 08:16 jmg00346

Injection date and time: **19-JUL-2012 07:33**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **200WACqc**
Calibration date and time (Last Method Edit): 19-JUL-2012 08:06
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1000 ml Volume Injected (Vi): 1 ul

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WAS LEFT

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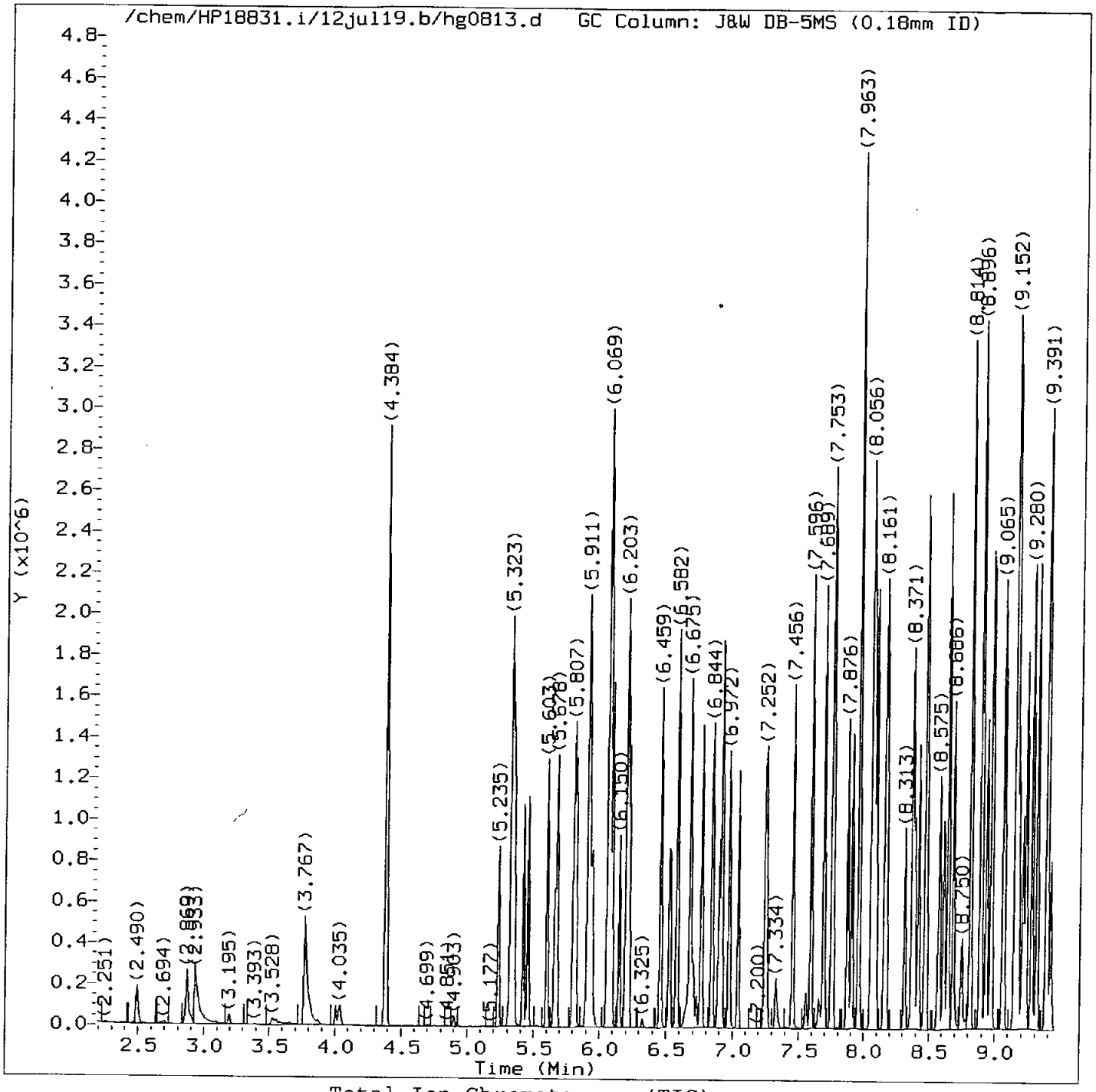
Total number of targets = 69

Digitally signed by Joseph M. Gambler on 07/19/2012 at 08:19. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Matthew E. Barton on 07/20/2012 at 11:11. Parallax ID: reb00745

ASX73 0988



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0813.d
Injection date and time: 19-JUL-2012 07:33

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

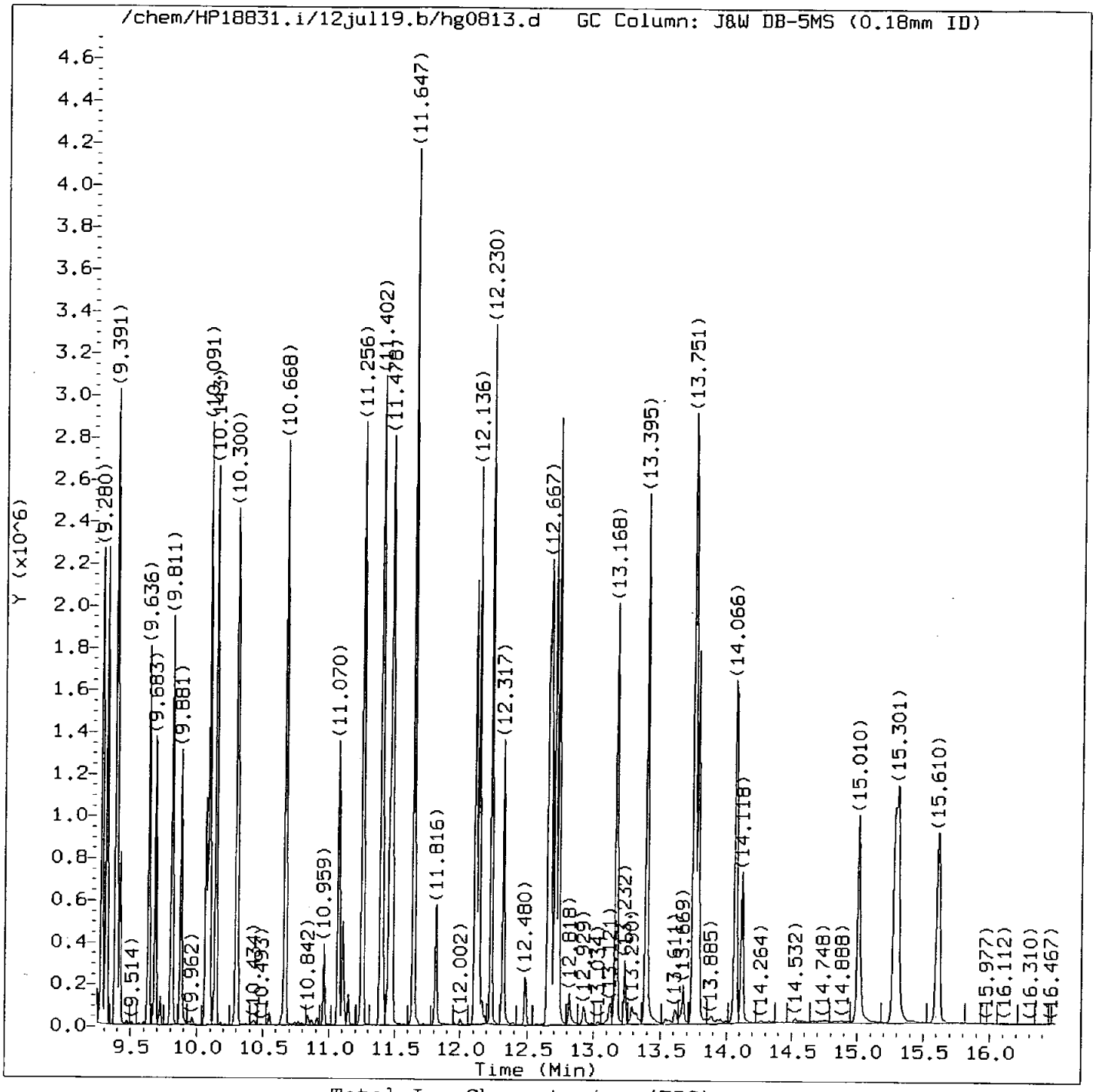
Date, time and analyst ID of latest file update: 19-Jul-2012 08:16 jmg00346

Sample Name: 200WCLCS8

Lab Sample ID: 200WCLCS

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:19.
Target 3.5 esignature user ID: jmg00346

ASX73 0909



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0813.d
Injection date and time: 19-JUL-2012 07:33

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

Date, time and analyst ID of latest file update: 19-Jul-2012 08:16 jmg00346

Sample Name: 200WCLCS8

Lab Sample ID: 200WCLCS

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:19.
Target 3.5 esignature user ID: jmg00346

ASX73 8918

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0813.d
Injection date and time: 19-JUL-2012 07:33

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

Date, time and analyst ID of latest file update: 19-Jul-2012 08:16 jmg00346

Sample Name: 200WCLCS8

Lab Sample ID: 200WCLCS

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.384	112	823220	110.191
12) Benzaldehyde	(1)	5.235	77	206032	28.652
15)$Phenol-d6	(1)	5.323	99	768101	72.593
16) Phenol	(1)	5.334	94	266227	21.279
18) bis(2-Chloroethyl)ether	(1)	5.422	93	390131	41.899
19) 2-Chlorophenol	(1)	5.451	128	297313	42.906
20) 1,3-Dichlorobenzene	(1)	5.603	146	265761	38.020
21)*1,4-Dichlorobenzene-d4	(1)	5.661	152	88663	20.000
22) 1,4-Dichlorobenzene	(1)	5.678	146	274804	38.504
25) 1,2-Dichlorobenzene	(1)	5.818	146	263192	39.621
26) 2-Methylphenol	(1)	5.917	108	321015	40.175
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.941	45	421559	38.662
30) Acetophenone	(1)	6.057	105	499973	41.067
31) N-Nitroso-di-n-propylamine	(1)	6.069	70	305894	41.606
33) 4-Methylphenol	(1)	6.069	108	337632	39.008
37) Hexachloroethane	(1)	6.150	117	115428	36.575
38)$Nitrobenzene-d5	(2)	6.203	82	815414	82.023
39) Nitrobenzene	(2)	6.220	77	448117	43.299
41) Isophorone	(2)	6.459	82	850963	43.789
42) 2-Nitrophenol	(2)	6.529	139	167632	45.848
44) 2,4-Dimethylphenol	(2)	6.582	107	385093	44.797
46) bis(2-Chloroethoxy)methane	(2)	6.675	93	478841	40.930
49) 2,4-Dichlorophenol	(2)	6.762	162	252828	45.857
50) 1,2,4-Trichlorobenzene	(2)	6.844	180	246890	40.517
52)*Naphthalene-d8	(2)	6.896	136	361139	20.000
53) Naphthalene	(2)	6.920	128	845031	41.069
56) 4-Chloroaniline	(2)	6.972	127	366674	43.869
60) Hexachlorobutadiene	(2)	7.042	225	124554	39.498
63) Caprolactam	(2)	7.334	113	41011	14.080
68) 4-Chloro-3-methylphenol	(2)	7.456	107	359206	47.541
70) 2-Methylnaphthalene	(2)	7.596	142	585518	46.599
72) Hexachlorocyclopentadiene	(3)	7.753	237	229174	85.000
75) 2,4,6-Trichlorophenol	(3)	7.876	196	199198	48.984
77) 2,4,5-Trichlorophenol	(3)	7.911	196	209455	46.611
78)$2-Fluorobiphenyl	(3)	7.963	172	1213171	83.123
83) 1,1'-Biphenyl	(3)	8.056	154	739838	42.617
84) 2-Chloronaphthalene	(3)	8.074	162	513510	40.711
89) 2-Nitroaniline	(3)	8.173	138	217924	50.027
92) Dimethylphthalate	(3)	8.371	163	659188	44.607
94) 2,6-Dinitrotoluene	(3)	8.418	165	164717	49.292

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:19.
Target 3.5 esignature user ID: jmg00346

ASX73 0911

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0813.d
Injection date and time: 19-JUL-2012 07:33

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

Date, time and analyst ID of latest file update: 19-Jul-2012 08:16 jmg00346

Sample Name: 200WCLCS8

Lab Sample ID: 200WCLCS

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
95) Acenaphthylene	(3)	8.476	152	912607	47.665
97) 3-Nitroaniline	(3)	8.581	138	197668	51.779
98) *Acenaphthene-d10	(3)	8.610	164	218770	20.000
99) Acenaphthene	(3)	8.645	153	590377	45.032
100) 2,4-Dinitrophenol	(3)	8.686	184	217901	107.024
103) 4-Nitrophenol	(3)	8.750	109	56251	21.295
104) Dibenzofuran	(3)	8.814	168	838472	45.087
105) 2,4-Dinitrotoluene	(3)	8.814	165	211866	49.239
109) Diethylphthalate	(3)	9.065	149	707629	46.288
111) Fluorene	(3)	9.152	166	703224	47.309
112) 4-Chlorophenyl-phenylether	(3)	9.158	204	325479	45.392
114) 4-Nitroaniline	(3)	9.181	138	177314	46.074
115) 4,6-Dinitro-2-methylphenol	(4)	9.210	198	131959	46.962
117) N-Nitrosodiphenylamine	(4)	9.280	169	623971	45.018
119) $2,4,6-Tribromophenol	(3)	9.391	330	275032	196.703
125) 4-Bromophenyl-phenylether	(4)	9.636	248	170616	43.192
127) Hexachlorobenzene	(4)	9.688	284	166815	43.081
130) Atrazine	(4)	9.811	200	197942	53.318
131) Pentachlorophenol	(4)	9.881	266	128106	51.481
135) *Phenanthrene-d10	(4)	10.067	188	392028	20.000
137) Phenanthrene	(4)	10.091	178	1020575	45.184
138) Anthracene	(4)	10.143	178	1038480	46.529
140) Carbazole	(4)	10.300	167	1019923	47.928
142) Di-n-butylphthalate	(4)	10.668	149	1225974	45.306
147) Fluoranthene	(4)	11.256	202	1137666	50.780
167) *Pyrene-d10	(5)	11.454	212	434069	20.000
154) Pyrene	(5)	11.478	202	1134992	45.559
156) $Terphenyl-d14	(5)	11.647	244	1369903	94.258
161) Butylbenzylphthalate	(5)	12.136	149	520928	48.191
164) 3,3'-Dichlorobenzidine	(5)	12.655	252	296189	45.738
166) Benzo(a)anthracene	(5)	12.673	228	927156	50.709
168) Chrysene	(5)	12.708	228	844455	45.823
169) bis(2-Ethylhexyl)phthalate	(5)	12.731	149	678943	49.144
170) Di-n-octylphthalate	(6)	13.395	149	1137870	46.138
172) Benzo(b)fluoranthene	(6)	13.757	252	786973	45.218
173) Benzo(k)fluoranthene	(6)	13.786	252	797725	46.308
174) Benzo(a)pyrene	(6)	14.072	252	749736	48.040
175) *Perylene-d12	(6)	14.118	264	275049	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	15.284	276	764637	50.688
178) Dibenz(a,h)anthracene	(6)	15.307	278	641396	51.756

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 07/19/2012 at 08:19.
Target 3.5 esignature user ID: jmg00346

ASX73 0912

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0813.d
Injection date and time: 19-JUL-2012 07:33

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

Date, time and analyst ID of latest file update: 19-Jul-2012 08:16 jmg00346

Sample Name: 200WCLCS8

Lab Sample ID: 200WCLCS

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
179) Benzo(g,h,i)perylene	(6)	15.616	276	638106	50.096

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on 07/19/2012 at 08:19.
Target 3.5 esignature user ID: jmg00346

ASX73 0913

200WCLCSD8 Lancaster Labs Analysis Summary for GC/MS Semivolatiles 200WCLCSD

Data file: /chem/HP18831.i/12jul19.b/hg0814.d
Data file Sample Info. Line: 200WCLCSD8;200WCLCSD;
Date, time and analyst ID of latest file update: 19-Jul-2012 08:14 jmg00346

Injection date and time: **19-JUL-2012 07:55**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **200WACqc**
Calibration date and time (Last Method Edit): 19-JUL-2012 08:06
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1000 ml Volume Injected (Vi): 1 ul

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	5.661(0.000)	596	152	85347 (10)	20.00	
52) Naphthalene-d8	6.896(0.000)	808	136	344465 (7)	20.00	
98) Acenaphthene-d10	8.610(0.000)	1102	164	203518 (2)	20.00	
135) Phenanthrene-d10	10.067(0.000)	1352	188	375005 (2)	20.00	
167) Pyrene-d10	11.454(0.000)	1590	212	420355 (-3)	20.00	
175) Perylene-d12	14.118(0.000)	2047	264	278697 (-7)	20.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
9) 2-Fluorophenol	(1)	4.384(-0.001)	112	781974	108.737	54%		10 - 98
15) Phenol-d6	(1)	5.323(-0.001)	99	711919	69.897	35%		10 - 74
38) Nitrobenzene-d5	(2)	6.203(-0.001)	82	802382	84.619	85%		52 - 120
78) 2-Fluorobiphenyl	(3)	7.963(-0.001)	172	1174099	86.474	86%		63 - 114
119) 2,4,6-Tribromophenol	(3)	9.391(-0.001)	330	263385	202.490	101%		22 - 150
156) Terphenyl-d14	(5)	11.647(0.000)	244	1334734	94.834	95%		34 - 118

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
12) Benzaldehyde	(1)	5.235(0.000)	77	218640	31.586	31.59			1
16) Phenol	(1)	5.334(-0.000)	94	251137	20.853	20.85			0.5
18) bis(2-Chloroethyl)ether	(1)	5.422(-0.001)	93	391788	43.712	43.71			0.5
19) 2-Chlorophenol	(1)	5.457(-0.001)	128	291214	43.659	43.66			0.5
20) 1,3-Dichlorobenzene	(1)	5.602(-0.000)	146	272607	40.514	40.51			0.5
22) 1,4-Dichlorobenzene	(1)	5.678(0.000)	146	280443	40.821	40.82			0.5
25) 1,2-Dichlorobenzene	(1)	5.818(0.000)	146	270084	42.238	42.24			0.5
26) 2-Methylphenol	(1)	5.917(0.001)	108	310314	40.345	40.34			0.5
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.940(0.000)	45	417361	39.765	39.76			0.5
30) Acetophenone	(1)	6.057(0.000)	105	488263	41.664	41.66			0.5
31) N-Nitroso-di-n-propylamine	(1)	6.069(0.000)	70	300129	42.408	42.41			0.5
33) 4-Methylphenol	(1)	6.069(0.000)	108	321139	38.544	38.54			0.5
37) Hexachloroethane	(1)	6.150(0.000)	117	117976	38.835	38.83			1
39) Nitrobenzene	(2)	6.220(-0.000)	77	444151	44.993	44.99			0.5
41) Isophorone	(2)	6.459(0.000)	82	830817	44.822	44.82			0.5
42) 2-Nitrophenol	(2)	6.529(-0.000)	139	165662	47.503	47.50			0.5
44) 2,4-Dimethylphenol	(2)	6.582(0.000)	107	374311	45.650	45.65			0.5
46) bis(2-Chloroethoxy)methane	(2)	6.675(-0.000)	93	469729	42.094	42.09			0.5
49) 2,4-Dichlorophenol	(2)	6.762(-0.000)	162	246793	46.929	46.93			0.5
50) 1,2,4-Trichlorobenzene	(2)	6.844(-0.000)	180	249421	42.914	42.91			0.5
53) Naphthalene	(2)	6.920(-0.000)	128	837052	42.651	42.65			0.1
56) 4-Chloroaniline	(2)	6.972(0.000)	127	361301	45.318	45.32			0.5
60) Hexachlorobutadiene	(2)	7.042(0.000)	225	126682	42.117	42.12			0.5
63) Caprolactam	(2)	7.334(0.000)	113	37967	13.666	13.67			5
68) 4-Chloro-3-methylphenol	(2)	7.456(0.000)	107	344231	47.765	47.76			0.5
70) 2-Methylnaphthalene	(2)	7.596(0.000)	142	583951	48.723	48.72			0.1
72) Hexachlorocyclopentadiene	(3)	7.753(-0.000)	237	224149	89.367	89.37			5

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ASX73 0914

200WCLCSD8 Lancaster Labs Analysis Summary for GC/MS Semivolatiles 200WCLCSD

Data file: /chem/HP18831.i/12jul19.b/hg0814.d
Data file Sample Info. Line: 200WCLCSD8;200WCLCSD;
Date, time and analyst ID of latest file update: 19-Jul-2012 08:14 jmg00346

Injection date and time: **19-JUL-2012 07:55**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **200WACqc**
Calibration date and time (Last Method Edit): 19-JUL-2012 08:06
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1000 ml Volume Injected (Vi): 1 ul

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
75) 2,4,6-Trichlorophenol	(3)	7.876(-0.000)	196	188458	49.816	49.82			0.5
77) 2,4,5-Trichlorophenol	(3)	7.911(-0.000)	196	200844	48.044	48.04			0.5
83) 1,1'-Biphenyl	(3)	8.056(-0.000)	154	722462	44.735	44.74			0.5
84) 2-Chloronaphthalene	(3)	8.074(-0.000)	162	514859	43.877	43.88			0.4
89) 2-Nitroaniline	(3)	8.173(-0.000)	138	211126	52.099	52.10			0.5
92) Dimethylphthalate	(3)	8.371(-0.000)	163	635741	46.244	46.24			2
94) 2,6-Dinitrotoluene	(3)	8.418(-0.000)	165	160156	51.519	51.52			0.5
95) Acenaphthylene	(3)	8.476(-0.000)	152	891810	50.070	50.07			0.1
97) 3-Nitroaniline	(3)	8.575(-0.000)	138	189835	53.454	53.45			0.5
99) Acenaphthene	(3)	8.645(-0.000)	153	574244	47.084	47.08			0.1
100) 2,4-Dinitrophenol	(3)	8.686(-0.000)	184	210886	111.340	111.34			10
103) 4-Nitrophenol	(3)	8.750(-0.000)	109	53040	21.585	21.58			10
104) Dibenzofuran	(3)	8.814(0.000)	168	821500	47.485	47.49			0.5
105) 2,4-Dinitrotoluene	(3)	8.814(-0.000)	165	206371	51.556	51.56			1
109) Diethylphthalate	(3)	9.065(-0.000)	149	678704	47.723	47.72			2
111) Fluorene	(3)	9.152(-0.000)	166	686646	49.656	49.66			0.1
112) 4-Chlorophenyl-phenylether	(3)	9.158(-0.000)	204	312703	46.878	46.88			0.5
114) 4-Nitroaniline	(3)	9.175(-0.000)	138	172956	48.310	48.31			0.5
115) 4,6-Dinitro-2-methylphenol	(4)	9.210(-0.000)	198	129947	48.345	48.35			5
117) N-Nitrosodiphenylamine	(4)	9.274(-0.000)	169	605910	45.699	45.70			0.5
125) 4-Bromophenyl-phenylether	(4)	9.636(-0.000)	248	165533	43.808	43.81			0.5
127) Hexachlorobenzene	(4)	9.682(0.000)	284	163580	44.164	44.16			0.1
130) Atrazine	(4)	9.811(0.000)	200	192340	54.161	54.16		E	2
131) Pentachlorophenol	(4)	9.881(-0.000)	266	123084	51.709	51.71			1
137) Phenanthrene	(4)	10.090(0.000)	178	994103	46.010	46.01			0.1
138) Anthracene	(4)	10.143(-0.000)	178	1015491	47.564	47.56			0.1
140) Carbazole	(4)	10.300(0.000)	167	1000319	49.140	49.14			0.5
142) Di-n-butylphthalate	(4)	10.668(0.000)	149	1178919	45.545	45.54			2
147) Fluoranthene	(4)	11.256(-0.000)	202	1114346	51.997	52.00			0.1
154) Pyrene	(5)	11.478(-0.000)	202	1139629	47.238	47.24			0.1
161) Butylbenzylphthalate	(5)	12.136(0.000)	149	516177	49.309	49.31			2
164) 3,3'-Dichlorobenzidine	(5)	12.655(-0.000)	252	303839	48.450	48.45			2
166) Benzo(a)anthracene	(5)	12.673(-0.000)	228	944174	53.325	53.32			0.1
168) Chrysene	(5)	12.708(-0.000)	228	870442	48.774	48.77			0.1
169) bis(2-Ethylhexyl)phthalate	(5)	12.731(0.000)	149	679070	50.757	50.76			2
170) Di-n-octylphthalate	(6)	13.395(-0.000)	149	1151451	46.078	46.08			2
172) Benzo(b)fluoranthene	(6)	13.757(-0.000)	252	777389	44.082	44.08			0.1
173) Benzo(k)fluoranthene	(6)	13.786(-0.000)	252	849081	48.644	48.64			0.1
174) Benzo(a)pyrene	(6)	14.071(-0.000)	252	779657	49.303	49.30			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	15.284(-0.000)	276	797113	52.149	52.15			0.1
178) Dibenz(a,h)anthracene	(6)	15.307(-0.000)	278	662763	52.780	52.78			0.1
179) Benzo(g,h,i)perylene	(6)	15.616(-0.000)	276	665971	51.599	51.60			0.1

E = Compound concentration above calibration range.

Digitally signed by Joseph M. Gambler on 07/19/2012 at 08:20. Target 3.5 esignature user ID: jmg00346

ASX73 0915

200WCLCSD8 Lancaster Labs Analysis Summary for GC/MS Semivolatiles 200WCLCSD

Data file: /chem/HP18831.i/12jul19.b/hg0814.d
Data file Sample Info. Line: 200WCLCSD8;200WCLCSD;
Date, time and analyst ID of latest file update: 19-Jul-2012 08:14 jmg00346

Injection date and time: **19-JUL-2012 07:55**
Instrument ID: **HP18831.i** Batch: **12200WAC**

Blank Data file reference: **/chem/HP18831.i/12jul19.b/hg0812.d**

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: **200WACqc**
Calibration date and time (Last Method Edit): 19-JUL-2012 08:06
Mid Level Daily Calibration Standard Reference: **/chem/HP18831.i/12jul19.b/hg0811.d**

Matrix: WATER Level: Low GPC clean-up: No On-Column Amount units: ng/ul In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi)

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Final Extract Volume (Vt): 1000 ul
Sample Volume (Vo): 1000 ml Volume Injected (Vi): 1 ul

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WAS LEFT

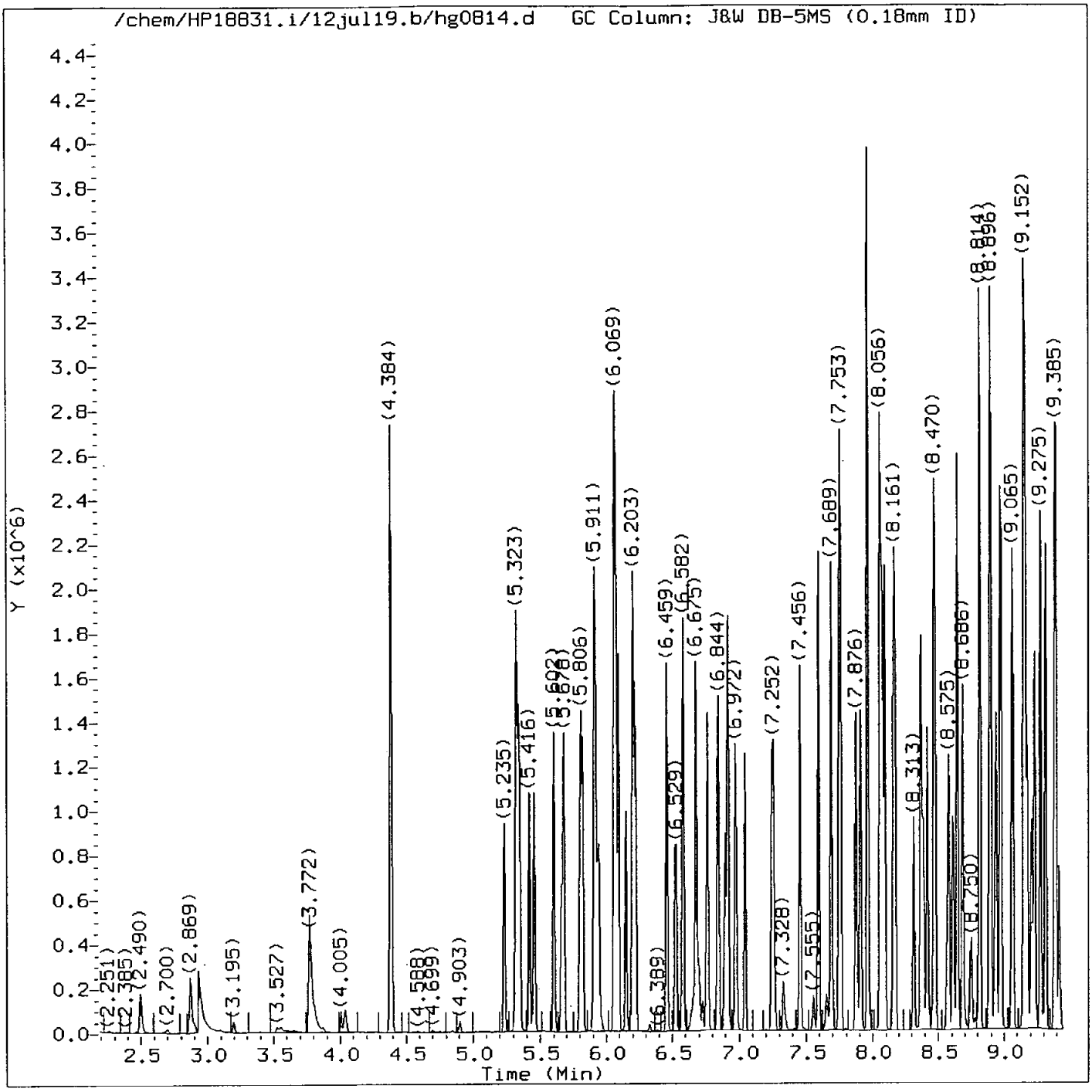
BLANK INTENTIONALLY

Total number of targets = 69

Digitally signed by Joseph M. Gambler on 07/19/2012 at 08:20. Target 3.5 esignature user ID: jmg00346

Secondary review performed and digitally signed by Matthew E. Barton on 07/20/2012 at 11:11. Parallax ID: reb00745

ASX73 0916



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0814.d
Injection date and time: 19-JUL-2012 07:55

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

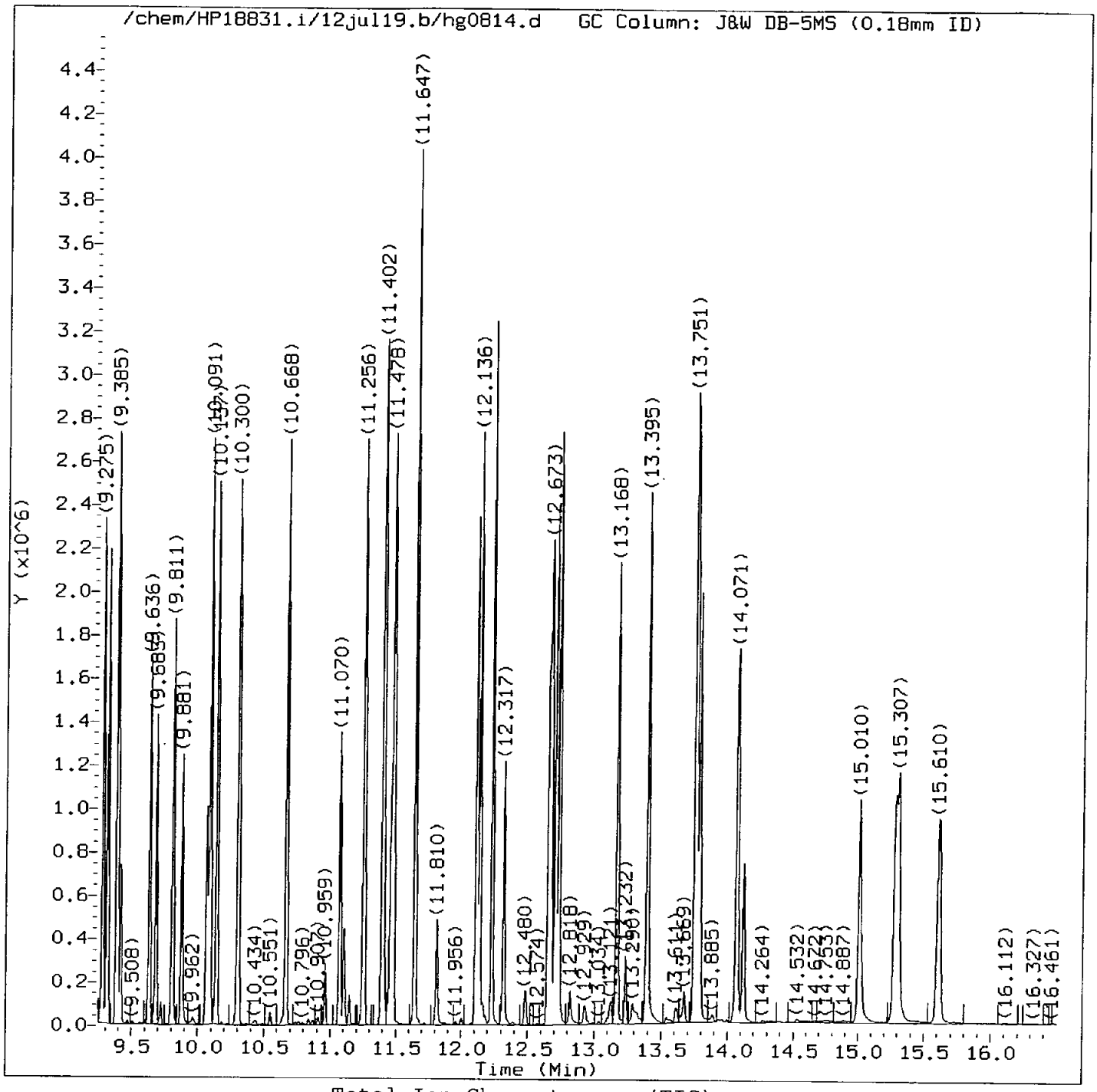
Date, time and analyst ID of latest file update: 19-Jul-2012 08:14 jmg00346

Sample Name: 200WCLCSD8

Lab Sample ID: 200WCLCSD

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:20.
Target 3.5 esignature user ID: jmg00346

ASX73 0917



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0814.d
Injection date and time: 19-JUL-2012 07:55

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

Date, time and analyst ID of latest file update: 19-Jul-2012 08:14 jmg00346

Sample Name: 200WCLCSD8

Lab Sample ID: 200WCLCSD

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:20.
Target 3.5 esignature user ID: jmg00346

ASX73 8918

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0814.d
Injection date and time: 19-JUL-2012 07:55

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

Date, time and analyst ID of latest file update: 19-Jul-2012 08:14 jmg00346

Sample Name: 200WCLCSD8

Lab Sample ID: 200WCLCSD

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
9)$2-Fluorophenol	(1)	4.384	112	781974	108.737
12) Benzaldehyde	(1)	5.235	77	218640	31.586
15)$Phenol-d6	(1)	5.323	99	711919	69.897
16) Phenol	(1)	5.334	94	251137	20.853
18) bis(2-Chloroethyl)ether	(1)	5.422	93	391788	43.712
19) 2-Chlorophenol	(1)	5.457	128	291214	43.659
20) 1,3-Dichlorobenzene	(1)	5.602	146	272607	40.514
21)*1,4-Dichlorobenzene-d4	(1)	5.661	152	85347	20.000
22) 1,4-Dichlorobenzene	(1)	5.678	146	280443	40.821
25) 1,2-Dichlorobenzene	(1)	5.818	146	270084	42.238
26) 2-Methylphenol	(1)	5.917	108	310314	40.345
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.941	45	417361	39.765
30) Acetophenone	(1)	6.057	105	488263	41.664
31) N-Nitroso-di-n-propylamine	(1)	6.069	70	300129	42.408
33) 4-Methylphenol	(1)	6.069	108	321139	38.544
37) Hexachloroethane	(1)	6.150	117	117976	38.835
38)$Nitrobenzene-d5	(2)	6.203	82	802382	84.619
39) Nitrobenzene	(2)	6.220	77	444151	44.993
41) Isophorone	(2)	6.459	82	830817	44.822
42) 2-Nitrophenol	(2)	6.529	139	165662	47.503
44) 2,4-Dimethylphenol	(2)	6.582	107	374311	45.650
46) bis(2-Chloroethoxy)methane	(2)	6.675	93	469729	42.094
49) 2,4-Dichlorophenol	(2)	6.762	162	246793	46.929
50) 1,2,4-Trichlorobenzene	(2)	6.844	180	249421	42.914
52)*Naphthalene-d8	(2)	6.896	136	344465	20.000
53) Naphthalene	(2)	6.920	128	837052	42.651
56) 4-Chloroaniline	(2)	6.972	127	361301	45.318
60) Hexachlorobutadiene	(2)	7.042	225	126682	42.117
63) Caprolactam	(2)	7.334	113	37967	13.666
68) 4-Chloro-3-methylphenol	(2)	7.456	107	344231	47.765
70) 2-Methylnaphthalene	(2)	7.596	142	583951	48.723
72) Hexachlorocyclopentadiene	(3)	7.753	237	224149	89.367
75) 2,4,6-Trichlorophenol	(3)	7.876	196	188458	49.816
77) 2,4,5-Trichlorophenol	(3)	7.911	196	200844	48.044
78)$2-Fluorobiphenyl	(3)	7.963	172	1174099	86.474
83) 1,1'-Biphenyl	(3)	8.056	154	722462	44.735
84) 2-Chloronaphthalene	(3)	8.074	162	514859	43.877
89) 2-Nitroaniline	(3)	8.173	138	211126	52.099
92) Dimethylphthalate	(3)	8.371	163	635741	46.244
94) 2,6-Dinitrotoluene	(3)	8.418	165	160156	51.519

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:20.
Target 3.5 esignature user ID: jmg00346

ASX73 0919

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0814.d
Injection date and time: 19-JUL-2012 07:55

Instrument ID: HP18831.i
Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m
Calibration date and time: 19-JUL-2012 08:06

Sublist used: 200WACqc

Date, time and analyst ID of latest file update: 19-Jul-2012 08:14 jmg00346

Sample Name: 200WCLCSD8

Lab Sample ID: 200WCLCSD

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
95) Acenaphthylene	(3)	8.476	152	891810	50.070
97) 3-Nitroaniline	(3)	8.575	138	189835	53.454
98)*Acenaphthene-d10	(3)	8.610	164	203518	20.000
99) Acenaphthene	(3)	8.645	153	574244	47.084
100) 2,4-Dinitrophenol	(3)	8.686	184	210886	111.340
103) 4-Nitrophenol	(3)	8.750	109	53040	21.585
104) Dibenzofuran	(3)	8.814	168	821500	47.485
105) 2,4-Dinitrotoluene	(3)	8.814	165	206371	51.556
109) Diethylphthalate	(3)	9.065	149	678704	47.723
111) Fluorene	(3)	9.152	166	686646	49.656
112) 4-Chlorophenyl-phenylether	(3)	9.158	204	312703	46.878
114) 4-Nitroaniline	(3)	9.175	138	172956	48.310
115) 4,6-Dinitro-2-methylphenol	(4)	9.210	198	129947	48.345
117) N-Nitrosodiphenylamine	(4)	9.275	169	605910	45.699
119)$2,4,6-Tribromophenol	(3)	9.391	330	263385	202.490
125) 4-Bromophenyl-phenylether	(4)	9.636	248	165533	43.808
127) Hexachlorobenzene	(4)	9.683	284	163580	44.164
130) Atrazine	(4)	9.811	200	192340	54.161
131) Pentachlorophenol	(4)	9.881	266	123084	51.709
135)*Phenanthrene-d10	(4)	10.067	188	375005	20.000
137) Phenanthrene	(4)	10.091	178	994103	46.010
138) Anthracene	(4)	10.143	178	1015491	47.564
140) Carbazole	(4)	10.300	167	1000319	49.140
142) Di-n-butylphthalate	(4)	10.668	149	1178919	45.545
147) Fluoranthene	(4)	11.256	202	1114346	51.997
167)*Pyrene-d10	(5)	11.454	212	420355	20.000
154) Pyrene	(5)	11.478	202	1139629	47.238
156)$Terphenyl-d14	(5)	11.647	244	1334734	94.834
161) Butylbenzylphthalate	(5)	12.136	149	516177	49.309
164) 3,3'-Dichlorobenzidine	(5)	12.655	252	303839	48.450
166) Benzo(a)anthracene	(5)	12.673	228	944174	53.325
168) Chrysene	(5)	12.708	228	870442	48.774
169) bis(2-Ethylhexyl)phthalate	(5)	12.731	149	679070	50.757
170) Di-n-octylphthalate	(6)	13.395	149	1151451	46.078
172) Benzo(b)fluoranthene	(6)	13.757	252	777389	44.082
173) Benzo(k)fluoranthene	(6)	13.786	252	849081	48.644
174) Benzo(a)pyrene	(6)	14.071	252	779657	49.303
175)*Perylene-d12	(6)	14.118	264	278697	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	15.284	276	797113	52.149
178) Dibenz(a,h)anthracene	(6)	15.307	278	662763	52.780

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:20.
Target 3.5 esignature user ID: jmg00346

ASX73 0920

Quant Report

Target Revision 3.5

Data File: /chem/HP18831.i/12jul19.b/hg0814.d Instrument ID: HP18831.i
Injection date and time: 19-JUL-2012 07:55 Analyst ID: jmg00346

Method used: /chem/HP18831.i/12jul19.b/m8270.m Sublist used: 200WACqc
Calibration date and time: 19-JUL-2012 08:06
Date, time and analyst ID of latest file update: 19-Jul-2012 08:14 jmg00346

Sample Name: 200WCLCSD8 Lab Sample ID: 200WCLCSD

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
179) Benzo(g,h,i)perylene	(6)	15.616	276	665971	51.599

Digitally signed by Joseph M. Gambler
on 07/19/2012 at 08:20.
Target 3.5 esignature user ID: jmg00346

ASX73 0921

Extraction/Distillation/Digestion Logs

ASX73 0952

Organic Extraction Batchlog Assigned to: 898 Olivia Arosemena

Reviewed by: LB 1996 7-18-12 Start Date: 7-18-12 Start time: 11:00

12199SLH026

Tech 1: OA898 Tech 2:

Dept: 26	Prep Analysis: 10809 BNA Soil Microwave									TCL 8270 (microwave)	
QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6721497MSD ✓	49-0CMSD	30.5	SS1218826A	1.0	MS1217226A	1.0	1.0	Z	Z	34A	Brown Soil
6721497MS ✓	49-0CMS	30.5	SS1218826A	1.0	MS1217226A	1.0	1.0	Z	Z	34A	↓
BLANKA	SBLKLH199	30	SS1218826A	1.0			1.0	Z	Z	NA	
LCSA	LCSLH199	30	SS1218826A	1.0	MS1217226A	1.0	1.0	Z	Z	↓	

Solvent Used	Lot No.
1:1 Methylene Chloride/Acetone	185071312A
Methylene Chloride	LDE02
Sodium Sulfate	12199A

OA898 ② MS1219526A

Spike Solutions: ~~MS1217226A~~ SS1218826A

Witness: Na

LCS SPIKE MIX
BNA SURROGATE STANDARD

Sample #		Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1	6721497 ✓	49-0C	30.5	SS1218826A	1.0	1.0	Z	Z	34A	Brown Soil	10727	07/26/2012	N
2	6721503 ✓	32-0C	30.5	SS1218826A	1.0	1.0	Z	Z	34A	dry soil	10727	07/26/2012	N

OA898 7/18/12

Rack ID:		Work Station	12425
Internal Standard	LB91261	Balance #	2910

DF = Dilution Factor FV = Final Volume

S-bath ID	7-97 C	S-bath ID	C	N-Evap	C	M-vap	C	12199SLH026

Documented temps are NIST corrected.

Organic Extraction Batchlog Assigned to: 2807 Nicholas Shroyer Reviewed by: Jule|SAG 7-19-2012 Start Date: 7-18-12 Start time: 17:30

12200WAC026

Tech 1: NS2807 Tech 2:

Dept: 26 Prep Analysis: 00813 BNA Water Extraction TCL SW846 Semivolatiles/Waters

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH 2	pH 11	BC	Comments
BLANKA	SBLKWC200	1000	SS1218826A	1.0	—	—	1.0	✓	✓	—	Tap H_2O
LCSA	LCSWC200	1000	SS1218826A	1.0	MS1219526A	1.0	1.0	✓	✓	—	
LCSDA	LCSDWC200	1000	SS1218826A	1.0	MS1219526A	1.0	1.0	✓	✓	—	↓

Solvent Used	Lot No.
10N NaOH	2203052
Methylene Chloride	L11E21
Sodium Sulfate	12193A
Sulfuric Acid	121126

Spike Solutions: Witness:
MS1219526A LCS SPIKE MIX
SS1218826A BNA SURROGATE STANDARD

Sample #		Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH 2	pH 11	BC	Comments	Analyses	Due Date	Prio
1	6720421	FPO44	1056	SS1218826A	1.0	1.0	✓	✓	43A	cloudy yellow	04678	07/25/2012	P
2	6720422	FPO31	1057	SS1218826A	1.0	1.0	✓	✓	43A	↓ brown contact	04678	07/25/2012	P
3	6720423	FPO67	1059	SS1218826A	1.0	1.0	✓	✓	43A	clear	04678	07/25/2012	P
4	6720424	FPO21	1056	SS1218826A	1.0	1.0	✓	✓	43A	↓	04678	07/25/2012	P
5	6720425	FPO20	1062	SS1218826A	1.0	1.0	✓	✓	43A	cloudy brown	04678	07/25/2012	P
6	6720426	FPOD2	1055	SS1218826A	1.0	1.0	✓	✓	43A	clear beige	04678	07/25/2012	P
7	6720427	FPO59	1059	SS1218826A	1.0	1.0	✓	✓	43A	↓ ↓	04678	07/25/2012	P
8	6720428	FPOF2	1056	SS1218826A	1.0	1.0	✓	✓	43A	↓	04678	07/25/2012	P
9	6720430	FP60S	1060	SS1218826A	1.0	1.0	✓	✓	43A	cloudy, beige	04678	07/25/2012	P
10	6720431	FP60D	1062	SS1218826A	1.0	1.0	✓	✓	43A	clear	04678	07/25/2012	P
11	6721504	EB713	1060	SS1218826A	1.0	1.0	✓	✓	43C		04678	07/26/2012	N
12	6722557	GRF16	1037	SS1218826A	1.0	1.0	✓	✓	43A		04678	07/26/2012	P
13	6722951	FLR-1	1056	SS1218826A	1.0	1.0	✓	✓	43A		04678	07/24/2012	S
14	6722953	FLR-2	1056	SS1218826A	1.0	1.0	✓	✓	43A		04678	07/24/2012	S
15	6722955	FLR-3	1043	SS1218826A	1.0	1.0	✓	✓	43A		04678	07/24/2012	S
16	6722957	FLR-4	1061	SS1218826A	1.0	1.0	✓	✓	43A		04678	07/24/2012	S
17	6722959	FB01-	1061	SS1218826A	1.0	1.0	✓	✓	43A		04678	07/26/2012	S
18	6722961	FLR-5	1052	SS1218826A	1.0	1.0	✓	✓	43A		04678	07/24/2012	S
19	6722963	FLR-6	1055	SS1218826A	1.0	1.0	✓	✓	43A		04678	07/24/2012	S
20	6722965	CUP-1	1052	SS1218826A	1.0	1.0	✓	✓	43A	↓	04678	07/24/2012	S

Rack ID:		Work Station	H_2O Bench 2
Internal Standard	LB91261	Balance #	15661

S-bath ID 1	87° C	S-bath ID 2	87° C	N-Evap	C	M-vap	C	12200WAC026

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Volatiles by GC-GRO Data

Case Narrative/Conformance Summary

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

Volatiles by GC

Fraction: Volatiles by GC-GRO

TPH-GRO soil C6-C10

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
6721497	SB-49(0-2)		X	251.51	
6721503	SB-32(0.0-2.0)		X	25.18	
6721504	EB-07132012	X		1	Equipment Blank

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:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, laboratory spike data (LCS) are provided.

Surrogate

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

SAMPLE ANALYSIS:

Sample number: 6721497: Analysis: 01637
Reporting limits were raised due to sample foaming.

No problems were encountered with the analysis of the samples.

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

Volatiles by GC

Fraction: Volatiles by GC-GRO

Additional Comments

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

Narrative Reviewed and Approved 8/3/12 (Date) by

Nancy E. Saunders

Nancy E. Saunders
Specialist

Quality Control and Calibration Summary Forms

ASX73 0929

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Quality Control Reference List
Volatiles by GC

CLIENT: Stantec
SDG: ASX73

Fraction: Volatiles by GC-GRO

Analysis	Batch Number	Sample Number	Analysis Date
TPH-GRO soil C6-C10	12200A31A	BLKPV	07/18/2012 17:50:00
		LCSH8	07/18/2012 18:26:00
		LCSDEV	07/18/2012 19:02:00
		6721497	07/18/2012 20:30:00
		6721503	07/18/2012 22:30:00
TPH-GRO water C6-C10	12201A20A	BLKQ5	07/19/2012 12:45:00
		LCSHL	07/19/2012 13:07:00
		6721504	07/19/2012 13:29:00

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Quality Control Summary
Method Blank
Volatiles by GC
SDG: ASX73
Matrix: LIQUID

Fraction: Volatiles by GC-GRO

12201A20A / BLKQ5 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
TPH-GRO water C6-C10	07/19/12	N.D.	ug/l	20	50

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Quality Control Summary
Method Blank
Volatiles by GC
SDG: ASX73
Matrix: SOLID

Fraction: Volatiles by GC-GRO

12200A31A / BLKPV Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
TPH-GRO soil C6-C10	07/18/12	N.D.	mg/kg	0.2	1.0

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Quality Control Summary
Surrogates
Volatiles by GC
SDG: ASX73
Matrix: LIQUID

Fraction: Volatiles by GC-GRO

12201A20A	Trifluorotoluene-F	
	Spike Added	30 ug/l
Sample	% Recovery	Limits
BLKQ5	90	63 - 135
LCSHL	108	63 - 135
6721504	86	63 - 135

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Quality Control Summary
Surrogates
Volatiles by GC
SDG: ASX73
Matrix: SOLID

Fraction: Volatiles by GC-GRO

12200A31A	Trifluorotoluene-F	
	Spike Added	0.75 mg/kg
Sample	% Recovery	Limits
BLKPV	82	61 - 122
LCSH8	81	61 - 122
LCSDEV	87	61 - 122
6721497	210 *	61 - 122
6721503	84	61 - 122

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

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

SDG: ASX73
Matrix: LIQUID

Volatiles by GC
Fraction: Volatiles by GC-GRO

LCS: LCSHL	Batch: 12201A20A (Sample number(s): 6721504)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
TPH-GRO water C6-C10	1100	960		87		75-135		

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

SDG: ASX73
Matrix: SOLID

Volatiles by GC
Fraction: Volatiles by GC-GRO

LCS: LCSH8 LCSD: LCSDEV	Batch: **12200A31A** (Sample number(s): 6721497, 6721503)							
Analyte	**Spike Added mg/kg**	**LCS Conc mg/kg**	**LCSD Conc mg/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
TPH-GRO soil C6-C10	11	8.06	8.8	73	80	67-119	9	30

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 11002F Calibration File: [PT1]8015B20266

GC Column (1) : J&W DB-VRX ID: 75 (mm) Update File: 20266B.0005.RAW

Date(s) Analyzed: 9/23/2011 9/23/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Trifluorotoluene-F	4.00	4.00	4.00	4.00	4.00	4.00	3.95	4.05

FORM VI-1

ASX73 0937

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 11002F Calibration File: [PT1]8015B20266

GC Column (1) : J&W DB-VRX ID: 75 (mm) Date(s) Analyzed: 9/23/2011 9/23/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Trifluorotoluene-F	5.54E+03	5.86E+03	5.75E+03	6.20E+03	6.81E+03	6.03E+03	8.2

Average % RSD: 8.2

ASX73 0938

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 11002F Calibration File: [PT1]8015B20266

GC Column (1) : J&W DB-VRX ID: 75 (mm) Date(s) Analyzed: 9/23/2011 9/23/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK AREA	%RSD
GRO	1		2.77	6.12	5660	5804	1	22	124528	2.0
					5777		2	55	317723	
					5679		3	110	624677	
					5856		4	550	3220655	
					5997		5	1100	6597136	
					5834		6	2750	16043920	
					5828		7	5500	32053350	

10/3/11

ASX73 0939

File Name:	I:\Cal\20\[PT1]8015B20266.cal
Version:	9
Creator:	SAS00581
Description:	TPH GRO (Northern CA)
Reason for change:	

External standard calibration

Standard injection volume:	1
Standard sample weight:	1
Area reject threshold:	0
Reference peak area reject threshold:	0
Amount units:	PPB

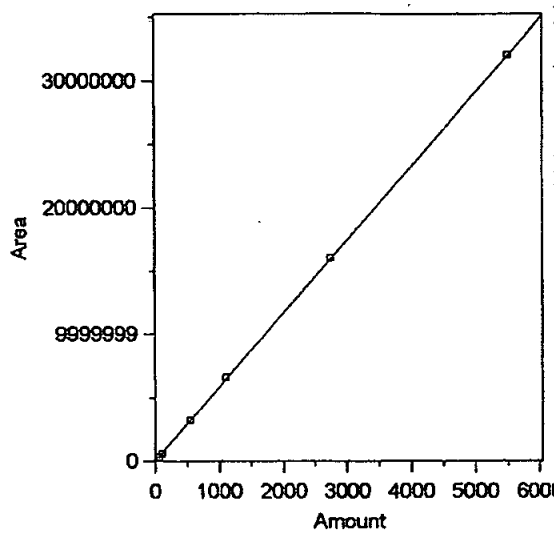
No default component

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

All levels are normal data points.

ASX73 0940

1 GRO



Expected retention time:	2 minutes
Search window:	0 minutes
No retention time reference component	
Group number:	3
GRO	
High alarm limit:	0
Low alarm limit:	0
Component constant:	550

Single peak quantification by area

Y = 5804.457 X + 0

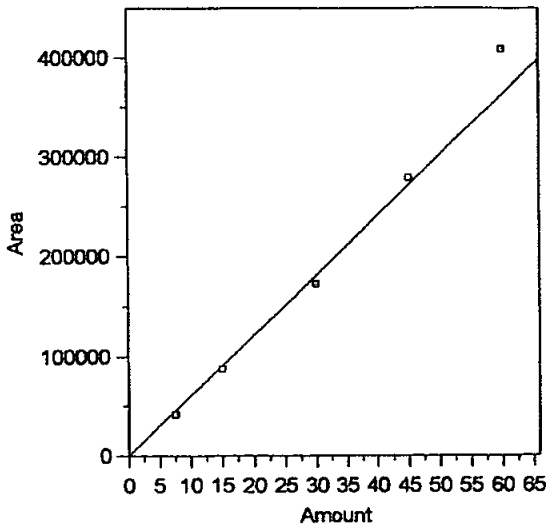
Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9999177
Average error:	1.464%
Average CF:	5804.457
RSD:	1.972%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	22	124528	5660.364	-2.482	Manual	9/29/2011 8:01:53 PM
2	55	317723	5776.782	-0.477	Manual	9/29/2011 8:01:57 PM
3	110	624677	5678.882	-2.163	Manual	9/29/2011 8:02:02 PM
4	550	3220655	5855.736	0.883	Manual	9/29/2011 8:02:06 PM
5	1100	6597136	5997.396	3.324	Manual	9/29/2011 8:02:11 PM
6	2750	1.604392E+07	5834.153	0.512	Manual	9/29/2011 8:02:15 PM
7	5500	3.205335E+07	5827.882	0.404	Manual	9/29/2011 8:02:23 PM

ASX73 8941

2 SURR-TFT-F



Expected retention time:	3.999 minutes
Search window:	0.05 minutes
No retention time reference component	
Group number:	1
SURR-TFT-F	
High alarm limit:	0
Low alarm limit:	0
Component constant:	30

Single peak quantification by area

Y = 6032.848 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.973583
Average error:	6.295%
Average CF:	6032.848
RSD:	8.233%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	7.5	41560.84	5541.445	-8.145	Y:\Active\CP20\20266B.0005.BND	9/29/2011 8:00:56 PM
2	15	87868.59	5857.906	-2.900	Y:\Active\CP20\20266B.0007.BND	9/29/2011 8:00:59 PM
3	30	172491.9	5749.73	-4.693	Y:\Active\CP20\20266B.0009.BND	9/29/2011 8:01:03 PM
4	45	279200.9	6204.464	2.845	Y:\Active\CP20\20266B.0011.BND	9/29/2011 8:01:06 PM
5	60	408641.6	6810.693	12.894	Y:\Active\CP20\20266B.0013.BND	9/29/2011 8:01:10 PM
6	(-1)	(0)	–	–	Manual	3/11/2008 3:52:26 AM
7	(-1)	(-1)	–	–	Manual	3/11/2008 3:52:28 AM

ASX73 0942

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 05656F Calibration File: 8015B31348

GC Column (1) : J&W DB-624 ID: 75 (mm) Update File:

Date(s) Analyzed: 12/14/2011 12/14/2011

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Trifluorotoluene-F	6.73	6.71	6.71	6.71	6.71	6.71	6.58	6.84
1-Chloro-3-fluorobenzene	12.56	12.55	12.55	12.55	12.54	12.54	12.46	12.62

FORM VI-1

ASX73 0943

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 05656F Calibration File: 8015B31348

GC Column (1) : J&W DB-624 ID: 75 (mm) Date(s) Analyzed: 12/14/2011 12/14/2011

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Trifluorotoluene-F	5.58E+04	5.61E+04	5.55E+04	5.73E+04	5.78E+04	5.65E+04	1.8
1-Chloro-3-fluorobenzene	5.81E+04	5.95E+04	6.04E+04	6.36E+04	6.85E+04	6.20E+04	6.7

Average % RSD: 4.3

ASX73 0944

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 05656F Calibration File: 8015B31348

GC Column (1) : J&W DB-624 ID: 75 (mm) Date(s) Analyzed: 12/14/2011 12/14/2011

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK AREA	%RSD
GRO	1		2.99	17.77	57795	52803	1	27.5	1589367	5.4
					51936		2	110	5713013	
					51005		3	220	11221080	
					52233		4	550	28727950	
					51045		5	1100	56149392	

12/21/11

FORM VI-3

ASX73 0945

File Name: I:\Cal\31\8015B31348.CAL
Version: 7

Creator: MDJ/2001
Description: 8015B GRO
Reason for change:

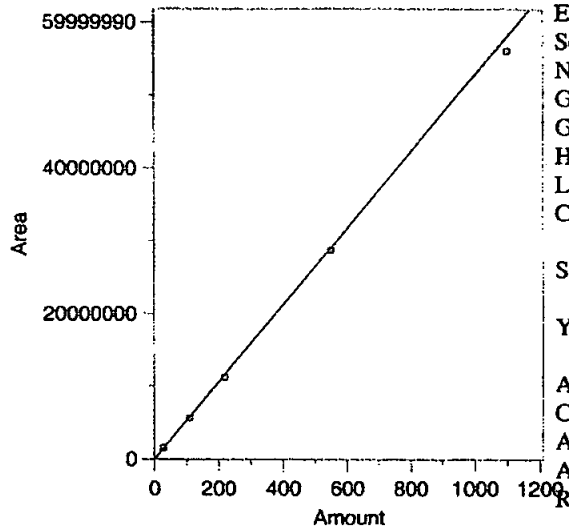
External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units: PPB
No default component

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

All levels are normal data points.

ASX73 0946

1 GRO



Expected retention time:	2 minutes
Search window:	0 minutes
No retention time reference component	
Group number:	3
GRO	
High alarm limit:	0
Low alarm limit:	0
Component constant:	220

Single peak quantification by area

Y = 52802.82 X + 0

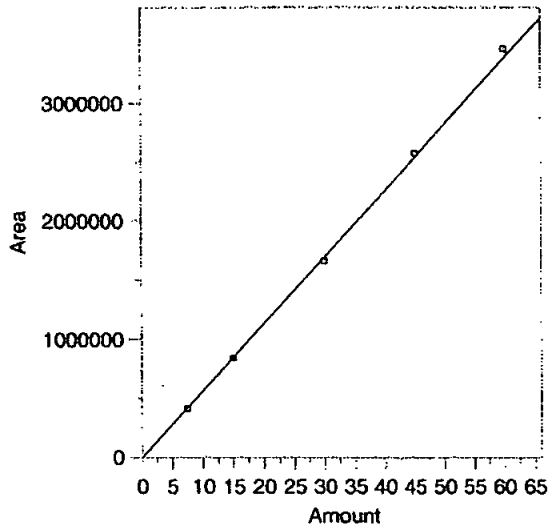
Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9979898
Average error:	3.782%
Average CF:	52802.82
RSD:	5.383%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	27.5	1589367	57795.16	9.455	Manual	12/14/2011 4:55:15 PM
2	110	5713013	51936.48	-1.641	Manual	12/14/2011 4:55:50 PM
3	220	1.122108E+07	51004.91	-3.405	Manual	12/14/2011 4:56:12 PM
4	550	2.872795E+07	52232.64	-1.080	Manual	12/14/2011 4:56:26 PM
5	1100	5.614939E+07	51044.9	-3.329	Manual	12/14/2011 4:56:36 PM

ASX73 0947

2 SURR-TFT-F



Expected retention time:	6.708 minutes
Search window:	0.13 minutes
No retention time reference component	
Group number:	1
SURR-TFT-F	
High alarm limit:	0
Low alarm limit:	0
Component constant:	30

Single peak quantification by area

Y = 56496.41 X + 0

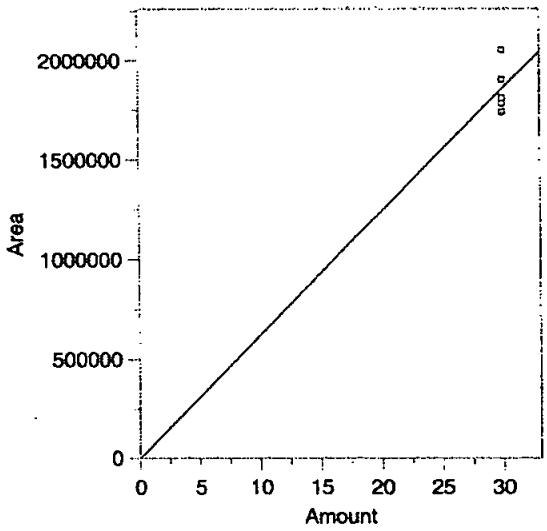
Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9986487
Average error:	1.486%
Average CF:	56496.41
RSD:	1.776%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	7.5	418378	55783.73	-1.261	Manual	12/14/2011 4:55:26 PM
2	15	842054	56136.93	-0.636	Manual	12/14/2011 4:55:44 PM
3	30	1664086	55469.54	-1.818	Manual	12/14/2011 4:56:00 PM
4	45	2578010	57289.11	1.403	Manual	12/14/2011 4:56:19 PM
5	60	3468165	57802.75	2.312	Manual	12/14/2011 4:56:41 PM

ASX73 0948

3 SURR-1C3FB



Expected retention time:	12.543 minutes
Search window:	0.08 minutes
No retention time reference component	
Group number:	2
SURR-1C3FB	
High alarm limit:	0
Low alarm limit:	0
Component constant:	30

Single peak quantification by area

Y = 62020.62 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0
Average error:	5.188%
Average CF:	62020.62
RSD:	6.696%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	30	1742271	58075.7	-6.361	Manual	12/14/2011 4:55:32 PM
2	30	1786285	59542.83	-3.995	Manual	12/14/2011 4:55:40 PM
3	30	1811990	60399.67	-2.614	Manual	12/14/2011 4:55:57 PM
4	30	1906873	63562.43	2.486	Manual	12/14/2011 4:56:16 PM
5	30	2055674	68522.47	10.483	Manual	12/14/2011 4:56:45 PM

ASX73 0949

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 11002F
Detector: FID
Init. Calib Date(s): 09/23/11 09/23/11
GC Column (1) : J&W DB-VRX ID: 75 (mm)
Date Analyzed: 09/23/11
Lab File ID: 20266B.0025.RAW
Time Analyzed: 23:43
Lab Standard ID: GICVXDP
Initial Calibration: [PT1]8015B20266
Method: 8015B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D	Limits
GRO		2.77	6.12	1171.46	1100.00	6.5	-15 to +15

Compounds 1
Average of %D: 6.5

FORM VII

ASX73 0950

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: 11002F Detector: FID
Init. Calib Date(s): 09/23/11 09/23/11
GC Column (1) : J&W DB-VRX ID: 75 (mm)
Date Analyzed: 07/19/12
Lab File ID: 20201.0002.RAW
Time Analyzed: 12:23
Lab Standard ID: WG20XPS
Initial Calibration: [PT1]8015B20266
Method: 8015B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D	Limits
Trifluorotoluene-F	4.04	3.95	4.05	34.45	30.00	15	-43 to +46
GRO		2.81	6.13	1044.10	1100.00	-5	-15 to +15

Compounds 2 Average of %D: 10

FORM VII

ASX73 0951

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 11002F
Detector: FID
Init. Calib Date(s): 09/23/11 09/23/11
GC Column (1) : J&W DB-VRX ID: 75 (mm)
Date Analyzed: 07/19/12
Lab File ID: 20201.0015.RAW
Time Analyzed: 18:28
Lab Standard ID: WG20XPV
Initial Calibration: [PT1]8015B20266
Method: 8015B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D	Limits
Trifluorotoluene-F	4.03	3.95	4.05	32.36	30.00	8	-43 to +46
GRO		2.81	6.13	989.46	1100.00	-10	-15 to +15

Compounds 2
Average of %D: 9

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 05656F
Detector: FID
Init. Calib Date(s): 12/14/11 12/14/11
GC Column (1) : J&W DB-624 ID: 75 (mm)
Date Analyzed: 12/14/11
Lab File ID: 31348B.0017.RAW
Time Analyzed: 21:15
Lab Standard ID: ICVGXBA
Initial Calibration: 8015B31348
Method: 8015B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D	Limits
Trifluorotoluene-F	6.69	6.58	6.84	791.00	750	5.5	-39 to +22
1-Chloro-3-fluorobenzene	12.53	12.46	12.62	775.71	750	3.4	-30 to +30
GRO	6.69	2.00	2.00	11992.45	11000	9.0	-15 to +15

Compounds 3
Average of %D: 6.0

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 05656F
Detector: FID
Init. Calib Date(s): 12/14/11 12/14/11
GC Column (1) : J&W DB-624 ID: 75 (mm)
Date Analyzed: 07/18/12
Lab File ID: 31199B.0042.RAW
Time Analyzed: 17:00
Lab Standard ID: SGCKXZX
Initial Calibration: 8015B31348
Method: 8015B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D	Limits
Trifluorotoluene-F	6.59	6.48	6.74	28.53	30.00	-5	-39 to +22
1-Chloro-3-fluorobenzene	12.44	12.35	12.61	27.23	30.00	-9	-30 to +30
GRO		2.94	17.77	208.27	220.00	-5	-15 to +15

Compounds 3
Average of %D: 6

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 05656F
Detector: FID
Init. Calib Date(s): 12/14/11 12/14/11
GC Column (1) : J&W DB-624 ID: 75 (mm)
Date Analyzed: 07/19/12
Lab File ID: 31200B.0014.RAW
Time Analyzed: 2:06
Lab Standard ID: SGCKXZZ
Initial Calibration: 8015B31348
Method: 8015B

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D	Limits
Trifluorotoluene-F	6.57	6.48	6.74	28.15	30.00	-6	-39 to +22
1-Chloro-3-fluorobenzene	12.42	12.35	12.61	27.09	30.00	-10	-30 to +30
GRO		2.94	17.77	202.02	220.00	-8	-15 to +15

Compounds 3
Average of %D: 8

FORM VII

ASX73 0955

8D
ANALYTICAL SEQUENCE

Sequence: 20266B | Lab Name: Lancaster laboratories | Contract:

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

GC Column: JW DB-VRX | ID: 75

Instrument: 11002F

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TFTF
001	AA	GRO MARKER	09/23/2011	19:20:25	[PT1]GX20266	4.00
002	AA	GRO MARKER	09/23/2011	19:30:55	[PT2]8015B20266	3.98
003	AA	IBLK	09/23/2011	19:42:17	[PT1]GX20266	
004	AA	IBLK	09/23/2011	19:52:50	[PT2]8015B20266	3.98
005	WGRO1AX	WGRO11125W	09/23/2011	20:04:12	[PT1]8015B20266	4.00
006	WGRO1AX	WGRO11125W	09/23/2011	20:14:42	[PT2]8015B20266	3.99
007	WGRO2AV	WGRO21125U	09/23/2011	20:26:11	[PT1]8015B20266	4.00
008	WGRO2AV	WGRO21125U	09/23/2011	20:36:46	[PT2]8015B20266	3.99
009	WGRO3AV	WGRO31125U	09/23/2011	20:48:06	[PT1]8015B20266	4.00
010	WGRO3AV	WGRO31125U	09/23/2011	20:58:37	[PT2]8015B20266	3.98
011	WGRO4MT	WGRO41125U	09/23/2011	21:09:59	[PT1]8015B20266	4.00
012	WGRO4MT	WGRO41125U	09/23/2011	21:20:34	[PT2]8015B20266	3.98
013	WGRO5AU	WGRO51125X	09/23/2011	21:31:59	[PT1]8015B20266	4.00
014	WGRO5AU	WGRO51125X	09/23/2011	21:42:31	[PT2]8015B20266	3.98
015	WGRO6AT	WGRO61125U	09/23/2011	21:53:55	[PT1]8015B20266	
016	WGRO6AT	WGRO61125U	09/23/2011	22:04:30	[PT2]8015B20266	

	ICAL Dates		ICAL RT	QC Limits
[PT1]8015B20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	4.	(3.95 - 4.05 Minutes)
[PT1]GX20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	4.	(3.95 - 4.05 Minutes)
[PT1]LA20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	4.	(3.95 - 4.05 Minutes)
[PT1]TPH20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	4.	(3.95 - 4.05 Minutes)
[PT2]8015B20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	3.99	(3.94 - 4.04 Minutes)
[PT2]GX20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	3.99	(3.94 - 4.04 Minutes)
[PT2]LUFT20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	3.99	(3.94 - 4.04 Minutes)
[PT2]TPH20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	3.99	(3.94 - 4.04 Minutes)

8D
ANALYTICAL SEQUENCE

Sequence: 20266B | Lab Name: Lancaster laboratories | Contract:

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

GC Column: JW DB-VRX | ID: 75

Instrument: 11002F

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TFTF
017	WGRO7AU	WGRO71125S	09/23/2011	22:15:52	[PT1]8015B20266	
018	WGRO7AU	WGRO71125S	09/23/2011	22:26:26	[PT2]8015B20266	
019	WGRO7AU	WGRO71125S	09/23/2011	22:37:50	[PT2]8015B20266	
020	WGRO7AU	WGRO71125S	09/23/2011	22:48:26	[PT2]8015B20266	
021	WGRO7AU	WGRO71125S	09/23/2011	22:59:47	[PT2]8015B20266	
022	WGRO7AU	WGRO71125S	09/23/2011	23:10:19	[PT2]8015B20266	
023	GMDLXGI	GMDLX1125Z	09/23/2011	23:21:44	[PT1]8015B20266	
024	GMDLXGJ	GMDLX1125Z	09/23/2011	23:32:18	[PT2]8015B20266	
025	GICVXDP	GICVX1125AA	09/23/2011	23:43:42	[PT1]8015B20266	
026	GICVXDQ	GICVX1125AA	09/23/2011	23:54:15	[PT2]GX20266	
027	AA	IBLK	09/26/2011	15:06:17	[PT2]8015B20266	3.99
028	DICVXDS	GICVX1125AB	09/26/2011	15:28:02	[PT2]8015B20266	

	ICAL Dates		ICAL RT	QC Limits
[PT1]8015B20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	4.	(3.95 - 4.05 Minutes)
[PT1]GX20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	4.	(3.95 - 4.05 Minutes)
[PT1]LA20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	4.	(3.95 - 4.05 Minutes)
[PT1]TPH20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	4.	(3.95 - 4.05 Minutes)
[PT2]8015B20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	3.99	(3.94 - 4.04 Minutes)
[PT2]GX20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	3.99	(3.94 - 4.04 Minutes)
[PT2]LUFT20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	3.99	(3.94 - 4.04 Minutes)
[PT2]TPH20266	09/23/2011 - 09/23/2011	TFTF = Trifluorotoluene-F	3.99	(3.94 - 4.04 Minutes)

8D
ANALYTICAL SEQUENCE

Sequence: 20201 Lab Name: Lancaster laboratories Contract:

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

GC Column: JW DB-VRX ID: 75

Instrument: 11002F

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001	AA	WGRTX1225X	07/19/2012	12:01:43	[PT1]8015B20266
002	WG20XPS	WG20X1225DQ	07/19/2012	12:23:43	[PT1]8015B20266
003	BLKQ5	BLANKA	07/19/2012	12:45:41	[PT1]8015B20266
004	LCSHL	LCSA	07/19/2012	13:07:38	[PT1]8015B20266
005	EB713	6721504	07/19/2012	13:29:38	[PT1]8015B20266
006	SUM3T	6724423	07/19/2012	13:51:31	[PT1]8015B20266
007	CNT01	6719566	07/19/2012	14:13:32	[PT1]8015B20266
008	CNT02	6719567	07/19/2012	14:35:28	[PT1]8015B20266
009	CNT03	6719568	07/19/2012	14:57:27	[PT1]8015B20266
010	SUM3A	6724424	07/19/2012	15:56:55	[PT1]8015B20266
011	SUM3B	6724425	07/19/2012	16:38:21	[PT1]8015B20266
012	SUMP4	6724426	07/19/2012	17:22:49	[PT1]8015B20266
013	WESTP	6724427	07/19/2012	17:44:48	[PT1]8015B20266
014	EMSIN	6720307	07/19/2012	18:06:44	[PT1]8015B20266
015	WG20XPV	WG20X1225DQ	07/19/2012	18:28:38	[PT1]8015B20266
016	AA	IBLK	07/19/2012	18:50:38	[PT1]8015B20266
017	EMSMD	6720308	07/19/2012	19:12:34	[PT1]8015B20266
018	MESIN	6721475	07/19/2012	19:34:30	[PT1]8015B20266
019	TTM01	6724332	07/19/2012	19:56:32	[PT1]8015B20266
020	TTM02	6724333	07/19/2012	20:18:29	[PT1]8015B20266
021	SUMP1	6724428	07/19/2012	20:40:26	[PT1]8015B20266
022	TTM02MS	6724333	07/19/2012	21:02:23	[PT1]8015B20266
023	TTM02MSD	6724333	07/19/2012	21:24:18	[PT1]8015B20266
024	WG20XPT	WG20X1225DQ	07/19/2012	21:46:15	[PT1]8015B20266

8D
ANALYTICAL SEQUENCE

Sequence: 31348B | Lab Name: Lancaster laboratories | Contract:

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

GC Column: JW DB-624 | ID: 75

Instrument: 05656F

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TFTF	
001	AA	GRO MARKER	12/14/2011	10:37:47	8015B31348	6.71	
002	AA	IBLK	12/14/2011	11:13:48	8015B31348		
003	AA	IBLK	12/14/2011	11:49:50	8015B31348		
004	SGRO1AA	SGRO11125D	12/14/2011	12:25:53	8015B31348	6.72	
005	SGRO2AA	SGRO21125D	12/14/2011	13:01:54	8015B31348	6.71	
006	SGRO3AA	SGRO31125D	12/14/2011	13:37:59	8015B31348	6.71	
007	SGRO4AA	SGRO41125D	12/14/2011	14:13:59	8015B31348	6.71	
008	SGRO5AA	SGRO51125D	12/14/2011	14:49:59	8015B31348	6.71	
009	AA	IBLK	12/14/2011	15:25:54	8015B31348	6.73	
010	AA	IBLK	12/14/2011	16:01:47	8015B31348		
011	AA	IBLK	12/14/2011	16:37:46	8015B31348		
012	AA	MDLGX11	12/14/2011	17:13:52	8015B31348	6.69	
013	ICVGXAY	ICVGX1125E	12/14/2011	17:49:58	8015B31348	6.69	
014	ICVGXAZ	ICVGX1125F	12/14/2011	18:53:17	8015B31348	6.73	ICV was misprepped. UMK2638 12/14/11
015	AA	IBLK	12/14/2011	19:50:14	8015B31348		
016	AA	IBLK	12/14/2011	20:26:04	8015B31348		
017	ICVGXBA	ICVGX1125G	12/14/2011	21:15:57	8015B31348	6.69	

	ICAL Dates		ICAL RT	QC Limits
8015B31348	12/14/2011 - 12/14/2011	TFTF = Trifluorotoluene-F	6.71	(6.58 - 6.84 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 31199B | Lab Name: Lancaster laboratories | Contract:

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

GC Column: JW DB-624 | ID: 75

Instrument: 05656F

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TFTF
001	AA	SGRTX1225R	07/17/2012	10:12:26	GX31348	6.58
002	SGCKXZD	SGCKX1225DK	07/17/2012	10:48:28	GX31348	6.60
003	BLKPI	BLANKA	07/17/2012	11:24:25	GX31348	6.60
004	LCSH0	LCSA	07/17/2012	12:00:29	GX31348	6.60
005	LCSDEN	LCSDA	07/17/2012	12:36:33	GX31348	6.60
006	17-20	6717820	07/17/2012	13:18:14	GX31348	6.59
007	C1818	6717822	07/17/2012	14:01:38	GX31348	6.59
008	CG315	6719818	07/17/2012	14:41:34	GX31348	6.61
009	C2019	6717834	07/17/2012	15:17:30	GX31348	6.61
010	C1509	6717835	07/17/2012	15:53:35	GX31348	6.62
011	C1519	6717837	07/17/2012	16:29:32	GX31348	6.61
012	C1319	6717839	07/17/2012	17:05:38	GX31348	6.58
013	CG354	6719824	07/17/2012	17:41:38	GX31348	6.57
014	C1813	6717821	07/17/2012	18:17:40	GX31348	6.59
015	C1511	6717836	07/17/2012	18:53:33	GX31348	6.60
016	SGCKXZF	SGCKX1225DK	07/17/2012	19:29:37	GX31348	6.60
017	C1310	6717838	07/17/2012	20:05:38	GX31348	6.59
018	CG261	6719815	07/17/2012	20:41:40	GX31348	6.59
019	CG265	6719816	07/17/2012	21:17:44	GX31348	6.58
020	CG295	6719817	07/17/2012	21:53:44	GX31348	6.58
021	CG325	6719819	07/17/2012	22:29:52	GX31348	6.58
022	CG332	6719820	07/17/2012	23:05:55	GX31348	6.57
023	CG335	6719821	07/17/2012	23:41:59	GX31348	6.57
024	CG345	6719822	07/18/2012	00:18:01	GX31348	6.57
025	CG365	6719823	07/18/2012	00:54:02	GX31348	6.56
026	C2010	6717823	07/18/2012	01:30:03	GX31348	6.57
027	SGCKXZE	SGCKX1225DK	07/18/2012	02:06:02	GX31348	6.57
028	CG315	6719818	07/18/2012	02:42:03	GX31348	6.57
029	C1310	6717838	07/18/2012	03:18:10	GX31348	6.58
030	CG261	6719815	07/18/2012	03:54:13	GX31348	6.59
031	SGCKXZL	SGCKX1225DL	07/18/2012	04:30:17	GX31348	6.58

	ICAL Dates		ICAL RT	QC Limits
8015B31348	12/14/2011 - 12/14/2011	TFTF = Trifluorotoluene-F	6.61	(6.48 - 6.74 Minutes)
GX31348	12/14/2011 - 12/14/2011	TFTF = Trifluorotoluene-F	6.58	(6.47 - 6.69 Minutes)

8D
ANALYTICAL SEQUENCE

Sequence: 31199B | Lab Name: Lancaster laboratories | Contract:

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

GC Column: JW DB-624 | ID: 75

Instrument: 05656F

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TFTF
032	AA -	IBLK	07/18/2012	10:09:57	GX31348	6.55
033	SGCKXZM	SGCKX1225DL	07/18/2012	10:45:57	GX31348	6.58
034	BLKPS	BLANKB	07/18/2012	11:22:05	GX31348	6.58
035	C2010	6717823	07/18/2012	11:58:10	GX31348	6.61
036	CG332	6719820	07/18/2012	12:34:14	GX31348	6.60
037	CG261	6719815	07/18/2012	13:10:20	GX31348	6.59
038	CG345	6719822	07/18/2012	13:46:27	GX31348	6.59
039	CG365	6719823	07/18/2012	14:22:31	GX31348	6.60
040	SGCKXZP	SGCKX1225DL	07/18/2012	15:22:58	GX31348	6.62
041	AA	IBLK	07/18/2012	16:24:18	GX31348	6.61
042	SGCKXZX	SGCKX1225DM	07/18/2012	17:00:21	8015B31348	6.59

	ICAL Dates		ICAL RT	QC Limits
8015B31348	12/14/2011 - 12/14/2011	TFTF = Trifluorotoluene-F	6.61	(6.48 - 6.74 Minutes)
GX31348	12/14/2011 - 12/14/2011	TFTF = Trifluorotoluene-F	6.58	(6.47 - 6.69 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 31200B | Lab Name: Lancaster laboratories | Contract:

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

GC Column: JW DB-624 | ID: 75

Instrument: 05656F

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TFTF
001	BLKPV	BLANKA	07/18/2012	17:50:24	8015B31348	6.60
002	LCSH8	LCSA	07/18/2012	18:26:25	8015B31348	6.59
003	LCSDEV	LCSDA	07/18/2012	19:02:30	8015B31348	6.58
004	RL-01	6720433	07/18/2012	19:38:37	8015B31348	6.60
005	49-0C	6721497	07/18/2012	20:30:49	8015B31348	6.60
006	23140	6722686	07/18/2012	21:18:23	8015B31348	6.60
007	134RL	6722044	07/18/2012	21:54:29	8015B31348	6.59
008	32-0C	6721503	07/18/2012	22:30:36	8015B31348	6.59
009	SB464	6721507	07/18/2012	23:06:36	8015B31348	6.57
010	134-3	6718767	07/18/2012	23:42:39	8015B31348	6.56
011	134-2	6718768	07/19/2012	00:18:43	8015B31348	6.57
012	CN315	6719561	07/19/2012	00:54:44	8015B31348	6.56
013	CN406	6719562	07/19/2012	01:30:50	8015B31348	6.58
014	SGCKXZZ	SGCKX1225DM	07/19/2012	02:06:46	8015B31348	6.57
015	CN408	6719563	07/19/2012	02:42:51	8015B31348	6.57
016	CN504	6719564	07/19/2012	03:18:56	8015B31348	6.57
017	CN506	6719565	07/19/2012	03:55:00	8015B31348	6.57
018	34-03	6722045	07/19/2012	04:31:02	8015B31348	6.58
019	34-04	6722046	07/19/2012	05:07:06	8015B31348	6.58
020	SGCKXAB	SGCKX1225DM	07/19/2012	05:43:11	8015B31348	6.57
021	PIBLKAA	IBLK	07/19/2012	06:19:12	8015B31348	6.58
022	AA	SS12200	07/19/2012	06:55:19	8015B31348	6.59

	ICAL Dates		ICAL RT	QC Limits
8015B31348	12/14/2011 - 12/14/2011	TFTF = Trifluorotoluene-F	6.61	(6.48 - 6.74 Minutes)

FORM VIII PEST

Sample Data

eurofins | Lancaster Laboratories

LOQ/MDL Summary
Volatiles by GC

SDG: ASX73

Fraction: Volatiles by GC-GRO

01637: TPH-GRO soil C6-C10 Analyte Name	Default MDL	Default LOQ	Units
TPH-GRO soil C6-C10	0.2	1.0	mg/kg

01635: TPH-GRO water C6-C10 Analyte Name	Default MDL	Default LOQ	Units
TPH-GRO water C6-C10	20	50	ug/l

Lancaster Laboratories-Range Data Summary

Sample Name: 6721497 49-0C **Sample ID:** AA **Batchnumber:** 12200A31A
Sample Amount: 1. Total Volume: 251.51 ml Analyst: 2001 SDG: ASX73 State: DE
Analyses: 01637

Injection Summary

Injected on : 7/18/2012 20:30:49
Instrument : CP31--05656F
Result file : 31200B.0005.RAW
Calibration files : 8015B31348.CAL
Method files : 8015B31348.MET
Setting : 8015B31348

Surrogate Recoveries

SURR-TFT-F *210% (61-122) Conc.: 1581.5008

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ SURR-TFT-F	6.60 (6.48 - 6.74)	355251	1581.5009				ppb
☐ SURR-1C3FB	12.45 (12.35 - 12.61)	1858900	7538.3306				ppb
☐ GRO	2.94 - 17.77	2773022	2662.0029	<10060.4	2012.08	J	ppb

Comments: foamer

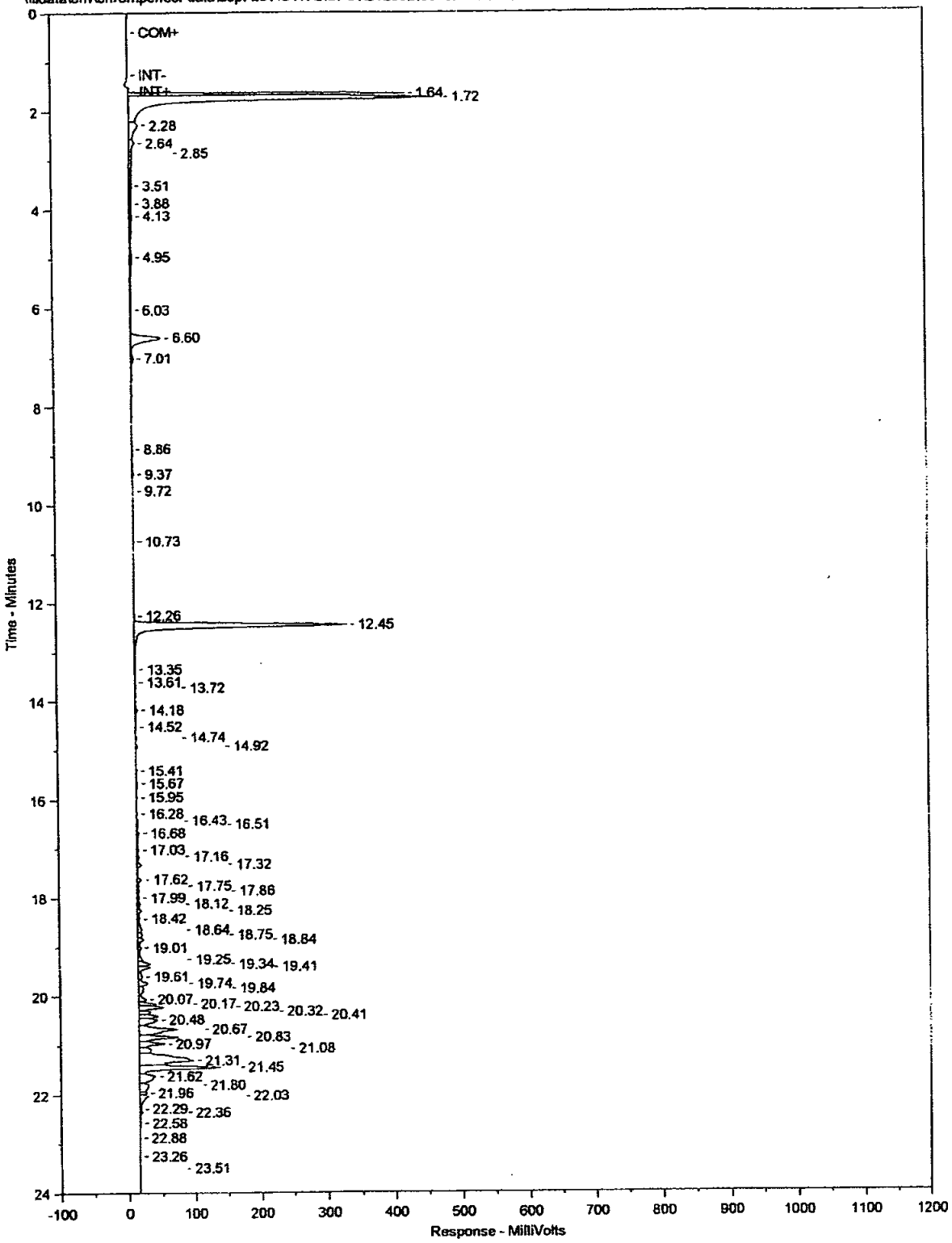
Reviewed by: LMK2038 Verified by: KB/MA
Date: 7/18/12 Date: 7/20/12

ASX73 0965

6721497 AA49-0C T 12200A31A 01637

7/18/2012 8:30:49 PM Batch:

— \\ldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0005.F6721497 AA49-0C T 12200A31A 01637



ASX73 0966

6721497 AA49-0C T 12200A31A 01637

Date Acquired: 7/18/2012 8:30:49 PM
Instrument: CP31--FID
Units: ug/kg Vial Position: VI#
Dilution Factor: 251.51
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0005.RAW
Method File: 8015B31348.MET Column:
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 26
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.64	0.00	0.00	1122814	413404.8
	1.72	0.00	0.00	3027059	450432.4
	2.28	0.00	0.00	183737	13143.89
	2.64	0.00	0.00	82328	7491.875
	2.85	0.00	0.00	36446	4051.428
	3.51	0.00	0.00	45966	2641.349
	3.88	0.00	0.00	22810	1880.799
	4.13	0.00	0.00	40860	2655.886
	4.95	0.00	0.00	51161	1944.313
	6.03	0.00	0.00	9588	808.7143
SURR-TFT-F	6.60	6.61	1581.50	355251	45384.35
	7.01	0.00	0.00	41893	2984.487
	8.86	0.00	0.00	5180	590.852
	9.37	0.00	0.00	14010	1616.215
	9.72	0.00	0.00	8143	758.7629
	10.73	0.00	0.00	7280	778.4075
	12.26	0.00	0.00	7529	975.3353
SURR-1C3FB	12.45	12.48	7538.33	1858900	318879.3
	13.35	0.00	0.00	16409	1409.586
	13.61	0.00	0.00	6577	1011.474
	13.72	0.00	0.00	7300	1193.709
	14.18	0.00	0.00	28883	3739.201
	14.52	0.00	0.00	8952	910.6106
	14.74	0.00	0.00	9748	2018.633
	14.92	0.00	0.00	14281	2893.426
	15.41	0.00	0.00	11245	1309.1
	15.67	0.00	0.00	11637	1976.727
	15.95	0.00	0.00	11370	1237.355
	16.28	0.00	0.00	7195	1329.047
	16.43	0.00	0.00	11514	2397.962
	16.51	0.00	0.00	15736	2705.197
	16.68	0.00	0.00	21856	3405.137
	17.03	0.00	0.00	18811	3169.953
	17.16	0.00	0.00	18320	2950.107
	17.32	0.00	0.00	38029	7135.237
	17.62	0.00	0.00	32820	6927.985
	17.75	0.00	0.00	13769	2575.878
	17.86	0.00	0.00	18244	3640.435
	17.99	0.00	0.00	18671	2947.064
	18.12	0.00	0.00	22551	4018.267
	18.25	0.00	0.00	36483	6367.898
	18.42	0.00	0.00	19000	3189.829
	18.64	0.00	0.00	60118	6675.746
	18.75	0.00	0.00	31799	7005.26
	18.84	0.00	0.00	52410	8557.478
	19.01	0.00	0.00	31823	4867.064
	19.25	0.00	0.00	44526	7133.014
	19.34	0.00	0.00	82161	19245.03
	19.41	0.00	0.00	76961	18925.28
	19.61	0.00	0.00	45630	6070.049

ASX73 0967

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	19.74	0.00	0.00	77929	14936.22
	19.84	0.00	0.00	66120	8720.78
	20.07	0.00	0.00	61033	11928.31
	20.17	0.00	0.00	93959	26668.7
	20.23	0.00	0.00	144045	39011.54
	20.32	0.00	0.00	74898	19530.1
	20.41	0.00	0.00	117112	30308
	20.48	0.00	0.00	167645	29541.76
	20.67	0.00	0.00	359226	58957.25
	20.83	0.00	0.00	258833	59604.21
	20.97	0.00	0.00	168824	38955.57
	21.08	0.00	0.00	120098	18914.63
	21.31	0.00	0.00	806612	82853.56
	21.45	0.00	0.00	540550	122835.6
	21.62	0.00	0.00	199045	25433.65
	21.80	0.00	0.00	124180	14693.92
	21.96	0.00	0.00	38658	11370.6
	22.03	0.00	0.00	99488	13758.67
	22.29	0.00	0.00	12853	2824.792
	22.36	0.00	0.00	17123	3773.104
	22.58	0.00	0.00	10753	1529.873
	22.88	0.00	0.00	3293	451.9715
	23.26	0.00	0.00	3416	704.3549
	23.51	0.00	0.00	1713	484.079

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.94	17.77	2773022	2214151	558871

Surrogate Percent Recovery: 20.96008

Total GRO Area: 558871.3
Total GRO Concentration: 2662.01 PPB

6721497 AA49-0C T 12200A31A 01637
Batch:
Analyst:
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0005.RAW
Method: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31\8015B31348.MET
Date: 7/18/2012 8:54:53 PM
File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0005.RAW

ASX73 0968

Lancaster Laboratories-Range Data Summary

Sample Name: 6721503 32-0C Sample ID: AA **Batchnumber:** 12200A31A
Sample Amount: 1. Total Volume: 25.18 ml Analyst: 2001 SDG:ASX73 State: DE
Analyses: 01637

Injection Summary

Injected on : 7/18/2012 22:30:36
Instrument : CP31--05656F
Result file : 31200B.0008.RAW
Calibration files : 8015B31348.CAL
Method files : 8015B31348.MET
Setting : 8015B31348

Surrogate Recoveries

SURR-TFT-F 84% (61-122) Conc.: 638.04351

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ SURR-TFT-F	6.59 (6.48 - 6.74)	1431579	638.0435				ppb
☐ SURR-1C3FB	12.43 (12.35 - 12.61)	1584681	643.3709				ppb
☐ GRO	2.94 - 17.77	3955228	447.7628	<1007.2	201.44	J	ppb

Comments: _____

Reviewed by: MDJOOOOI Verified by: KB/MK
Date: 7-18-12 Date: 7/20/12

6721503 AA32-0C T 12200A31A 01637

7/18/2012 10:30:36 PM Batch:

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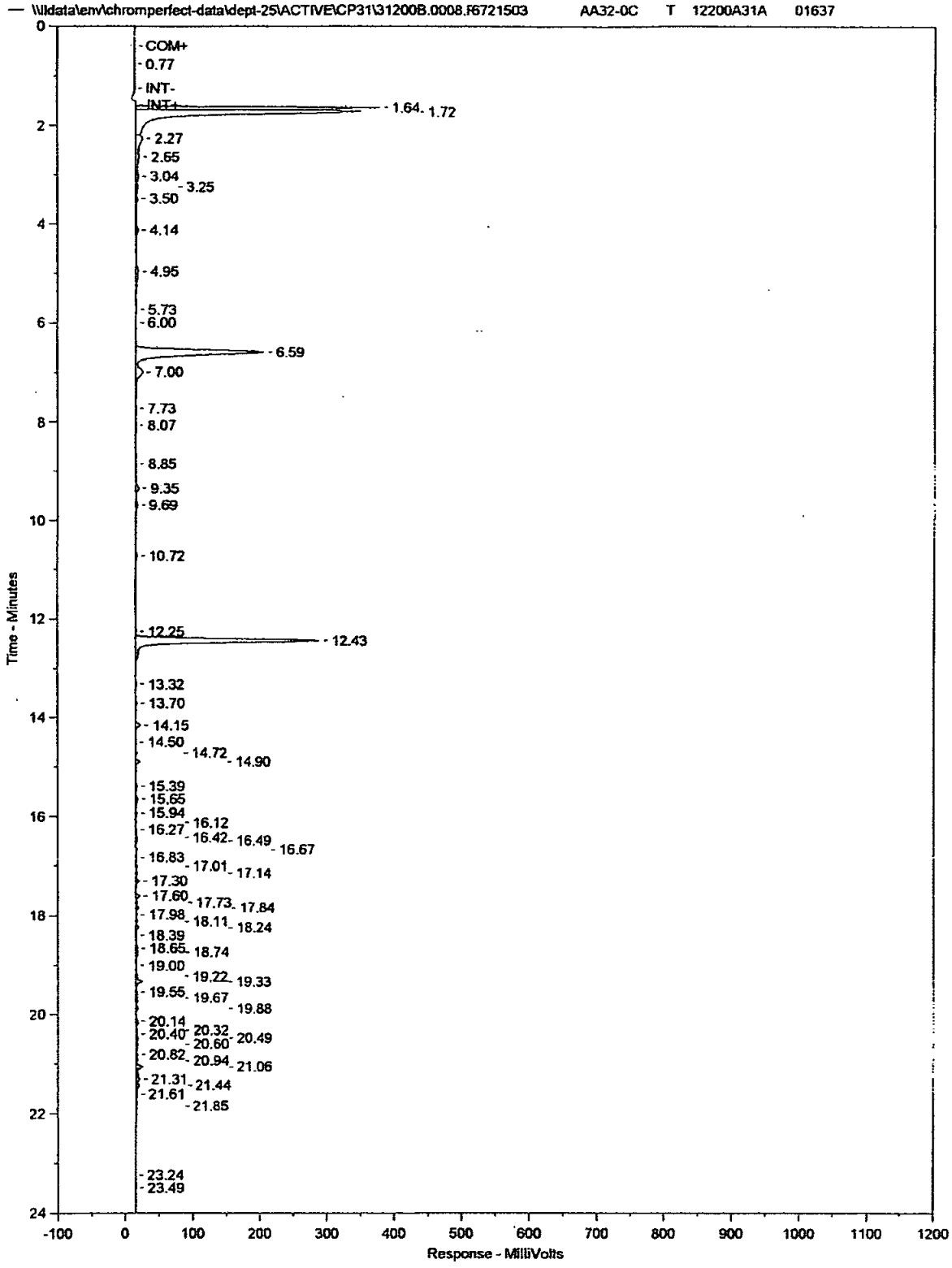


ASX73 0978

6721503 AA32-0C T 12200A31A 01637

Date Acquired: 7/18/2012 10:30:36 PM
Instrument: CP31--FID
Units: ug/kg **Vial Position: VI#**
Dilution Factor: 25.18
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0008.RAW
Method File: 8015B31348.MET **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 26
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	0.77	0.00	0.00	3777	169.6142
	1.64	0.00	0.00	1160367	363081.6
	1.72	0.00	0.00	2194913	334636.9
	2.27	0.00	0.00	150645	10927.1
	2.65	0.00	0.00	83099	5616.945
	3.04	0.00	0.00	50352	4394.666
	3.25	0.00	0.00	37036	2943.878
	3.50	0.00	0.00	42299	3455.205
	4.14	0.00	0.00	50231	3809.694
	4.95	0.00	0.00	45105	4236.434
	5.73	0.00	0.00	27350	1596.389
	6.00	0.00	0.00	10300	1194.646
SURR-TFT-F	6.59	6.61	638.04	1431579	192468.2
	7.00	0.00	0.00	162220	11569.35
	7.73	0.00	0.00	13947	945.4229
	8.07	0.00	0.00	16196	874.8412
	8.85	0.00	0.00	24149	1265.73
	9.35	0.00	0.00	50594	5576.755
	9.69	0.00	0.00	39521	2838.43
	10.72	0.00	0.00	27598	2087.068
	12.25	0.00	0.00	12319	1559.598
SURR-1C3FB	12.43	12.48	643.37	1584681	274369.8
	13.32	0.00	0.00	15893	1867.677
	13.70	0.00	0.00	16889	2265.243
	14.15	0.00	0.00	40572	8031.513
	14.50	0.00	0.00	9089	1132.185
	14.72	0.00	0.00	9586	2385.161
	14.90	0.00	0.00	35465	6888.43
	15.39	0.00	0.00	14365	2192.561
	15.65	0.00	0.00	29055	3139.688
	15.94	0.00	0.00	12311	2295.173
	16.12	0.00	0.00	3116	643.4614
	16.27	0.00	0.00	6574	1415.706
	16.42	0.00	0.00	10796	2462.601
	16.49	0.00	0.00	12500	2705.849
	16.67	0.00	0.00	13557	2610.576
	16.83	0.00	0.00	10772	1778.379
	17.01	0.00	0.00	13209	2890.727
	17.14	0.00	0.00	14390	2673.578
	17.30	0.00	0.00	24829	5851.521
	17.60	0.00	0.00	26611	6708.282
	17.73	0.00	0.00	10172	2078.135
	17.84	0.00	0.00	20170	4770.997
	17.98	0.00	0.00	11568	2213.203
	18.11	0.00	0.00	12398	2309.59
	18.24	0.00	0.00	18221	3978.228
	18.39	0.00	0.00	3666	793.8594
	18.65	0.00	0.00	21321	2405.936
	18.74	0.00	0.00	13889	3105.246
	19.00	0.00	0.00	6247	1202.222

ASX73 0971

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	19.22	0.00	0.00	13856	1966.863
	19.33	0.00	0.00	47690	10005.77
	19.55	0.00	0.00	12326	1826.542
	19.67	0.00	0.00	14685	1938.798
	19.88	0.00	0.00	14812	2625.336
	20.14	0.00	0.00	25502	2640.602
	20.32	0.00	0.00	8072	1893.333
	20.40	0.00	0.00	9385	2427.321
	20.49	0.00	0.00	14419	3193.11
	20.60	0.00	0.00	14383	2565.632
	20.82	0.00	0.00	9839	2220.3
	20.94	0.00	0.00	12276	1925.111
	21.06	0.00	0.00	41734	9785.852
	21.31	0.00	0.00	40528	4880.431
	21.44	0.00	0.00	25433	4428.246
	21.61	0.00	0.00	8763	1527.494
	21.85	0.00	0.00	5681	909.9105
	23.24	0.00	0.00	2520	456.5221
	23.49	0.00	0.00	3543	679.8483

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.94	17.77	3955228	3016260	938968

Surrogate Percent Recovery: 84.46432

Total GRO Area: 938968.3
Total GRO Concentration: 447.76 PPB

6721503 AA32-0C T 12200A31A 01637
Batch:
Analyst:
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0008.RAW
Method: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31\8015B31348.MET
Date: 7/18/2012 10:54:41 PM
File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0008.RAW

ASX73 0972

Lancaster Laboratories-Range Data Summary

Sample Name: 6721504 EB713 Sample ID: AA **Batchnumber:** 12201A20A
Sample Amount: 1. Total Volume: 1. ml Analyst: 2001 SDG:ASX73 State: DE
Analyses: 01635

Injection Summary

Injected on : 7/19/2012 13:29:38
Instrument : CP20--11002F
Result file : 20201.0005.RAW
Calibration files : [PT1]8015B20266.cal
Method files : [PT1]8015B20266.met
Setting : [PT1]8015B20266

Surrogate Recoveries

SURR-TFT-F 86% (63-135) Conc.: 25.850088

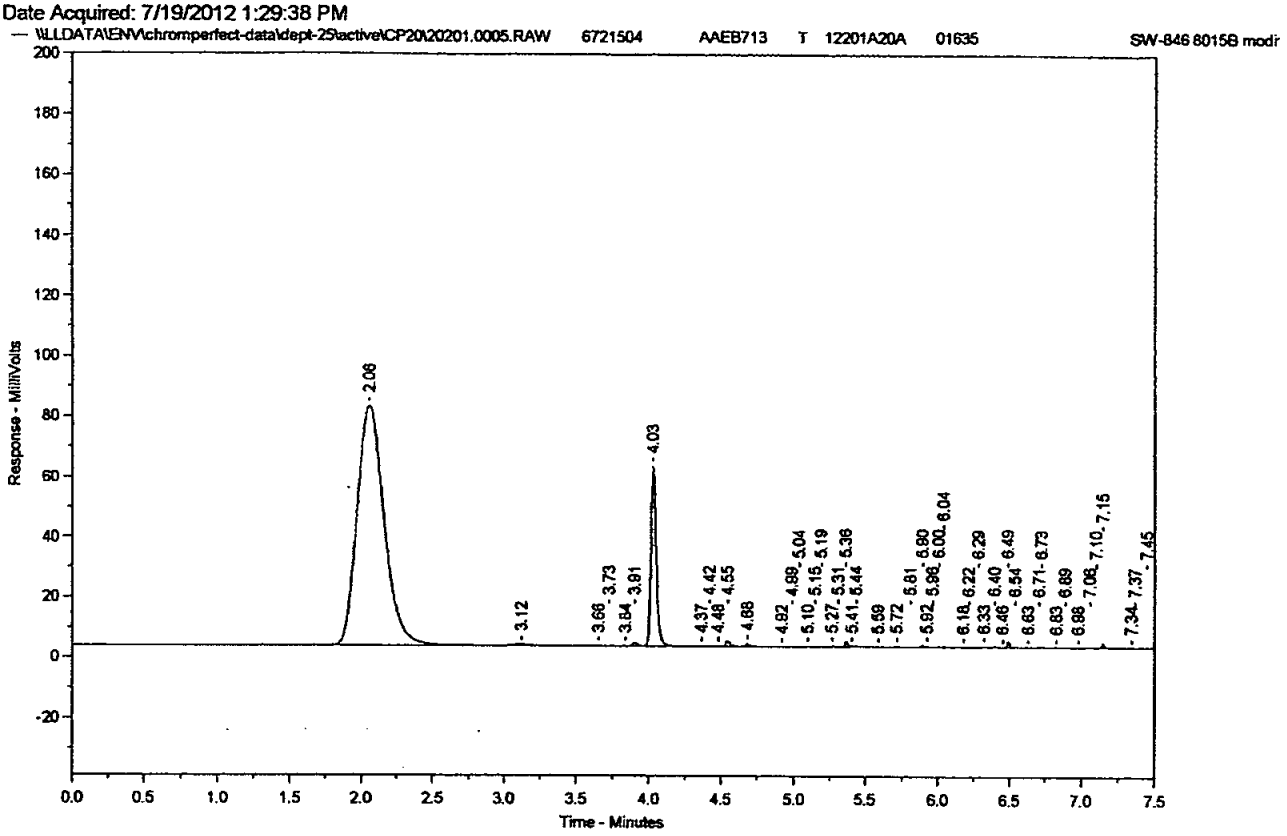
Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ SURR-TFT-F	4.03 (3.95 - 4.05)	155950	25.8501				ppb
☐ SURR-1C3FB	7.15 - 7.25	0	0.0000				ppb
☐ GRO	2.81 - 6.13	180864	4.2926	<50	<20		ppb

Comments:

Reviewed by: M DOOOOI Verified by: [illegible]078
Date: 7-19-12 Date: 072512

ASX73 0973

6721504 AAEB713 T 12201A20A 01635 SW-846 8015B modified
CP20 11002F 20201.0005.RAW
Date Acquired: 7/19/2012 1:29:38 PM



6721504 AAEB713 T 12201A20A 01635 SW-846 8015B modified
Date Acquired: 7/19/2012 1:29:38 PM **Instrument: CP20 11002F**
Raw File: 20201.0005.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.MET**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 9
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)
SURR-TFT-F	4.03	4.00	25.85	155950	59814.14

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.81	6.13	180864	155950	24914

Surrogate Percent Recovery: 86.16696

Total GRO Area: 24914.47
Total GRO Concentration: 4.29 ug/L

File: \\LLDATA\ENV\chromperfect-data\dept-25\active\CP20\20201.0005.RAW

ASX73 9974

Standards Data

ASX73 0975

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\Lldata\env\DEPT25\25_SEQUENCES\20266B.seq

Chromatography Directory: \\LLDATA\ENV\DEPT25\25_SEQUENCES

Method Directory: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\20

Number of Entries: 28

	Samplename	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	GRO MARKER	MISC	AA	20266B.0001.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
2	GRO MARKER	MISC	AA	20266B.0002.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
3	IBLK	T	AA	20266B.0003.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
4	IBLK	T	AA	20266B.0004.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
5	WGRO11125W	CCAL	AX	20266B.0005.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
6	WGRO11125W	CCAL	AX	20266B.0006.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
7	WGRO21125U	CCAL	AV	20266B.0007.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
8	WGRO21125U	CCAL	AV	20266B.0008.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
9	WGRO31125U	CCAL	AV	20266B.0009.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
10	WGRO31125U	CCAL	AV	20266B.0010.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
11	WGRO41125U	CCAL	MT	20266B.0011.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
12	WGRO41125U	CCAL	MT	20266B.0012.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
13	WGRO51125X	CCAL	AU	20266B.0013.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
14	WGRO51125X	CCAL	AU	20266B.0014.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
15	WGRO61125U	CCAL	AT	20266B.0015.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
16	WGRO61125U	CCAL	AT	20266B.0016.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
17	WGRO71125S	CCAL	AU	20266B.0017.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
18	WGRO71125S	CCAL	AU	20266B.0018.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
19	IBLK	T	AA	20266B.0019.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
20	IBLK	T	AA	20266B.0020.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
21	IBLK	T	AA	20266B.0021.RAW	\[PT1]GX20266.MET	1	1	1	0	1126599999	
22	IBLK	T	AA	20266B.0022.RAW	T2]8015B20266.MET	1	1	1	0	1126599999	
23	GMDLX1125Z	CCAL	GI	20266B.0023.RAW	\[PT1]GX20266.MET	1	1	1	0	1126899999	
24	GMDLX1125Z	CCAL	GJ	20266B.0024.RAW	T2]8015B20266.MET	1	1	1	0	1126899999	
25	GICVX1125AA	CCAL	DP	20266B.0025.RAW	\[PT1]GX20266.MET	1	1	1	0	1126899999	
26	GICVX1125AA	CCAL	DQ	20266B.0026.RAW	T2]8015B20266.MET	1	1	1	0	1126899999	
27	IBLK	T	AA	20266B.0027.RAW	T2]8015B20266.MET	1	1	1	0	1126899999	
28	GICVX1125AB	CCAL	DS	20266B.0028.RAW	T2]8015B20266.MET	1	1	1	0	1126899999	

Set-up by: LMK2638 Date: 9/29/11

9/29/2011

ASX73 0976

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\lldata\ENV\DEPT25\25_SEQUENCES\20201.seq

Chromatography Directory: \\lldata\ENV\dept25\25_sequence

Method Directory: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\20

Number of Entries: 24

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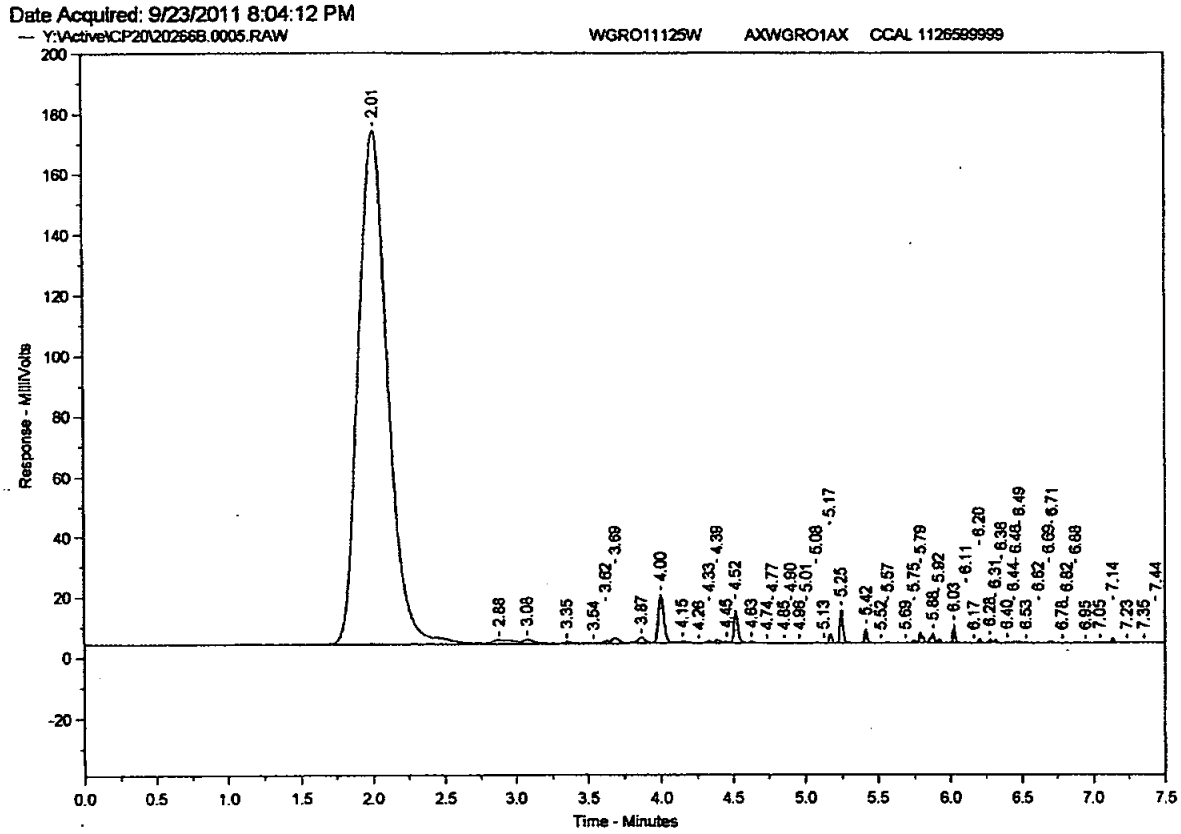
1	WGRTX1225X	0	CCAL	JP	20201.0001.RAW	T1]8015B20266.MET	1	1	1	0	1220099999	
2	WG20X1225DQ	0	CCAL	PS	20201.0002.RAW	T1]8015B20266.MET	1	1	1	0	1220099999	
3	BLANKA	0	BLK	AA	20201.0003.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
4	LCSA	0	LCS	AA	20201.0004.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
5	6721504	0	T	AA	20201.0005.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
6	6724423	0	T	AA	20201.0006.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
7	6719566	0	T	AA	20201.0007.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
8	6719567	0	T	AA	20201.0008.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
9	6719568	0	T	AA	20201.0009.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
10	6724424	0	T	AA	20201.0010.RAW	T1]8015B20266.MET	1	5	1	0	12201A20A	01635
11	6724425	0	T	AA	20201.0011.RAW	T1]8015B20266.MET	1	5	1	0	12201A20A	01635
12	6724426	0	T	AA	20201.0012.RAW	T1]8015B20266.MET	1	5	1	0	12201A20A	01635
13	6724427	0	T	AA	20201.0013.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
14	6720307	0	T	AA	20201.0014.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
15	WG20X1225DQ	0	CCAL	PV	20201.0015.RAW	T1]8015B20266.MET	1	1	1	0	1220099999	
16	IBLK	0	T	AA	20201.0016.RAW	T1]8015B20266.MET	1	1	1	0	1220099999	
17	6720308	0	T	AA	20201.0017.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
18	6721475	0	T	AA	20201.0018.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
19	6724332	0	T	AA	20201.0019.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
20	6724333	0	T	AA	20201.0020.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
21	6724428	0	T	AA	20201.0021.RAW	T1]8015B20266.MET	1	5	1	0	12201A20A	01635
22	6724333MS	0	MS	AA	20201.0022.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
23	6724333MSD	0	MSD	AA	20201.0023.RAW	T1]8015B20266.MET	1	1	1	0	12201A20A	01635
24	WG20X1225DQ	0	CCAL	PT	20201.0024.RAW	T1]8015B20266.MET	1	1	1	0	1220099999	

Set-up by: MDJ2001 Date: 7-20-12

7/19/2012 GJS1932 7/19/12

ASX73 0977

WGRO11125W AXWGRO1AX CCAL 1126599999
CP20 11002F 20266B.0005.RAW
Date Acquired: 9/23/2011 8:04:12 PM



WGRO11125W AXWGRO1AX CCAL 1126599999
Date Acquired: 9/23/2011 8:04:12 PM **Instrument: CP20 11002F**
Raw File: 20266B.0005.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.met**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 1
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)
SURR-TFT-F	4.00	4.01	6.77	41561	16272.11

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.77	6.12	166089	41561	124528

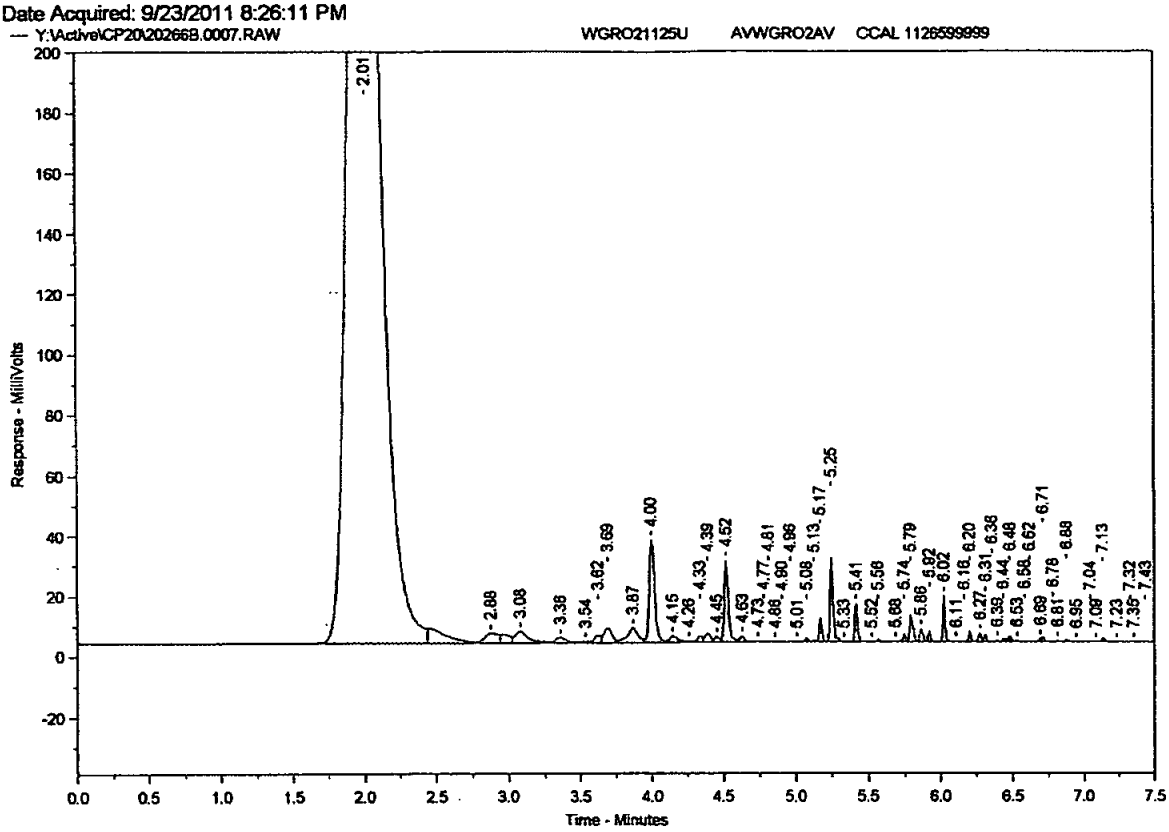
Surrogate Percent Recovery: 22.56655

Total GRO Area: 124528.20
Total GRO Concentration: 20.46 ug/L

File: Y:\Active\CP20\20266B.0005.RAW

ASX73 0978

WGRO21125U AVWGRO2AV CCAL 1126599999
CP20 11002F 20266B.0007.RAW
Date Acquired: 9/23/2011 8:26:11 PM



WGRO21125U AVWGRO2AV CCAL 1126599999
Date Acquired: 9/23/2011 8:26:11 PM **Instrument: CP20 11002F**
Raw File: 20266B.0007.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.met**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 2
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)
SURR-TFT-F	4.00	4.00	14.18	87869	34008.88

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.77	6.12	405592	87869	317723

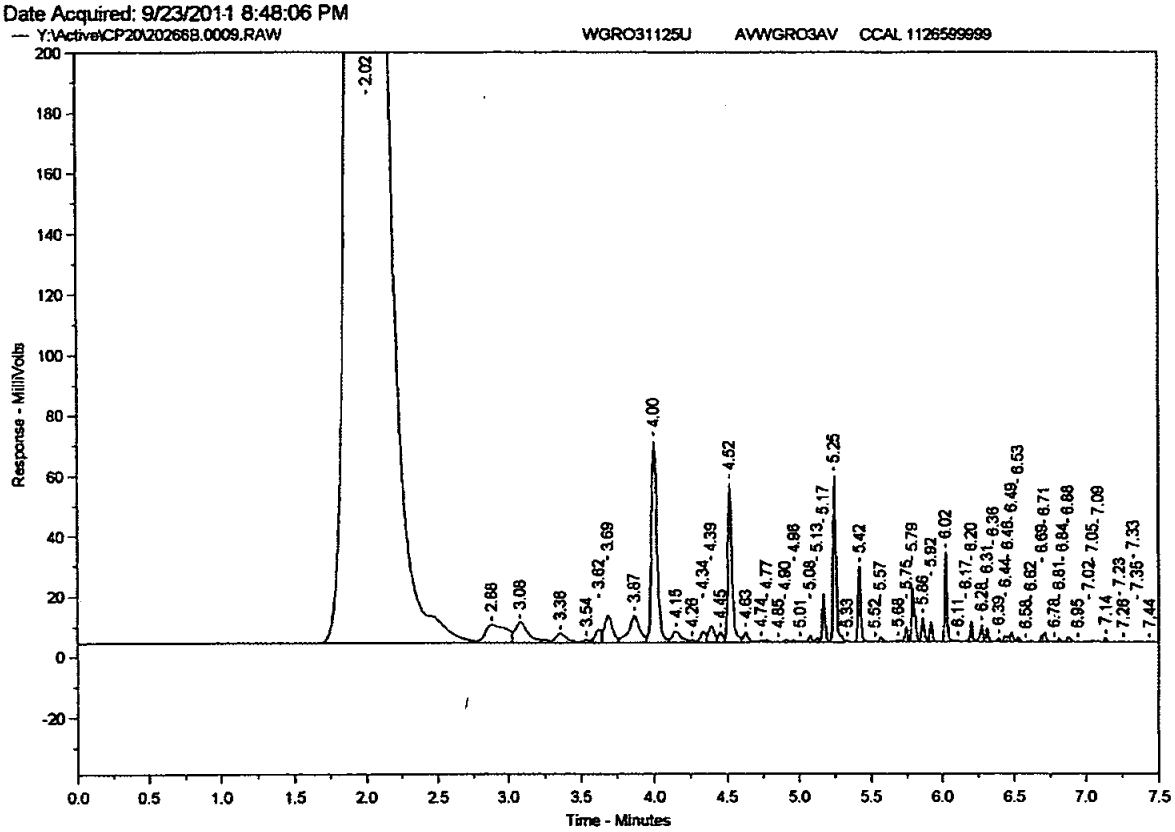
Surrogate Percent Recovery: 47.25307

Total GRO Area: 317722.90
Total GRO Concentration: 60.55 ug/L

File: Y:\Active\CP20\20266B.0007.RAW

ASX73 6979

WGRO31125U AVWGRO3AV CCAL 1126599999
CP20 11002F 20266B.0009.RAW
Date Acquired: 9/23/2011 8:48:06 PM



WGRO31125U AVWGRO3AV CCAL 1126599999
Date Acquired: 9/23/2011 8:48:06 PM **Instrument: CP20 11002F**
Raw File: 20266B.0009.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.met**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 3
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)
SURR-TFT-F	4.00	4.00	27.99	172492	67263.69

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.77	6.12	797169	172492	624677

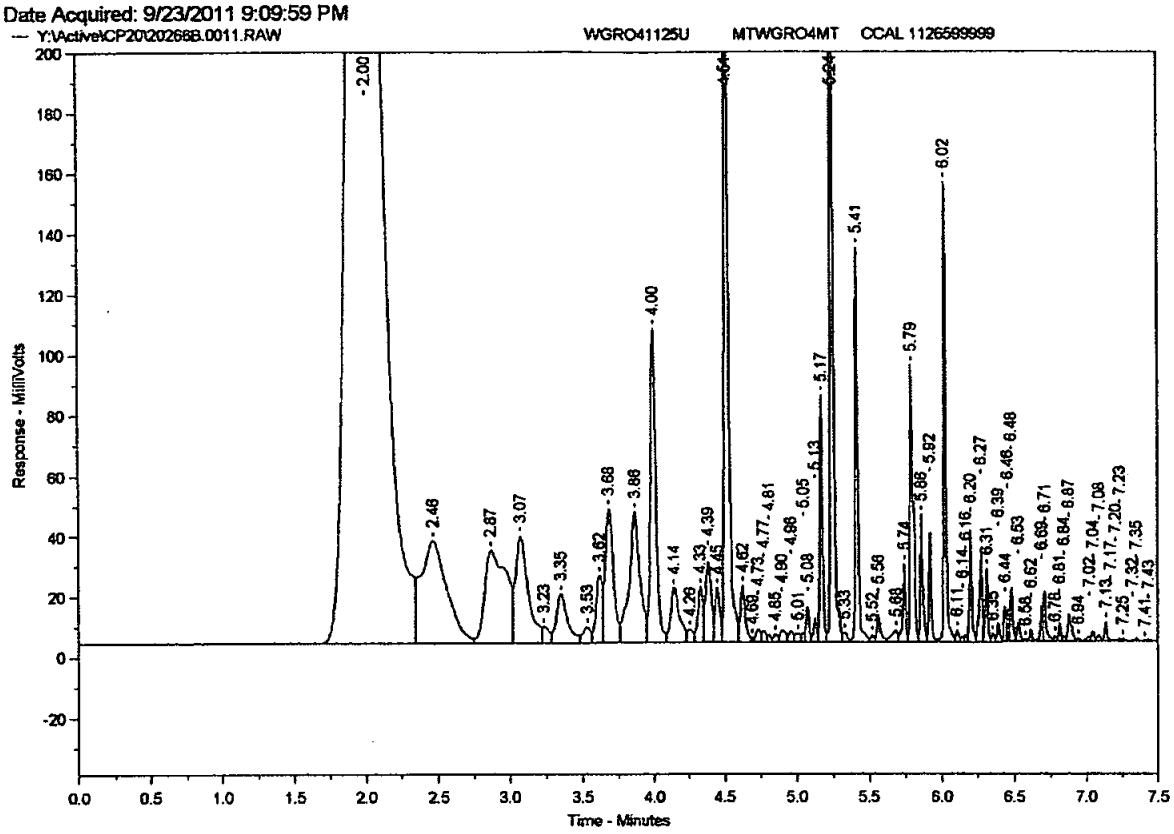
Surrogate Percent Recovery: 93.28564

Total GRO Area: 624677.10
Total GRO Concentration: 142.31 ug/L

File: Y:\Active\CP20\20266B.0009.RAW

ASX73 0989

WGRO41125U MTWGRO4MT CCAL 1126599999
CP20 11002F 20266B.0011.RAW
Date Acquired: 9/23/2011 9:09:59 PM



WGRO41125U MTWGRO4MT CCAL 1126599999
Date Acquired: 9/23/2011 9:09:59 PM **Instrument: CP20 11002F**
Raw File: 20266B.0011.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.met**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 4
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)
SURR-TFT-F	4.00	4.00	45.55	279201	104048.5

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.77	6.12	3499856	279201	3220655

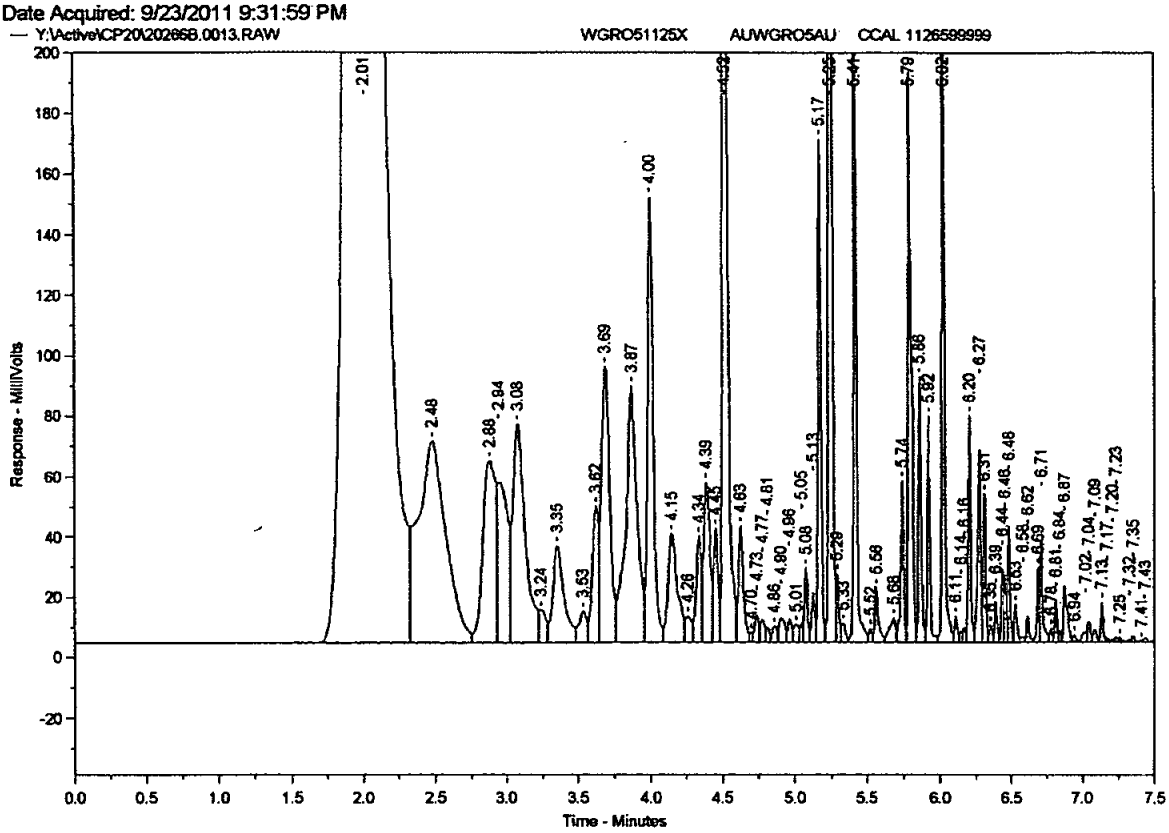
Surrogate Percent Recovery: 151.8391

Total GRO Area: 3220655.00
Total GRO Concentration: 919.18 ug/L

File: Y:\Active\CP20\20266B.0011.RAW

ASX73 0981

WGRO51125X AUWGRO5AU CCAL 1126599999
CP20 11002F 20266B.0013.RAW
Date Acquired: 9/23/2011 9:31:59 PM



WGRO51125X AUWGRO5AU CCAL 1126599999
Date Acquired: 9/23/2011 9:31:59 PM **Instrument: CP20 11002F**
Raw File: 20266B.0013.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.met**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 5
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)
SURR-TFT-F	4.00	4.00	67.49	408642	147910.7

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.77	6.12	7005777	408642	6597136

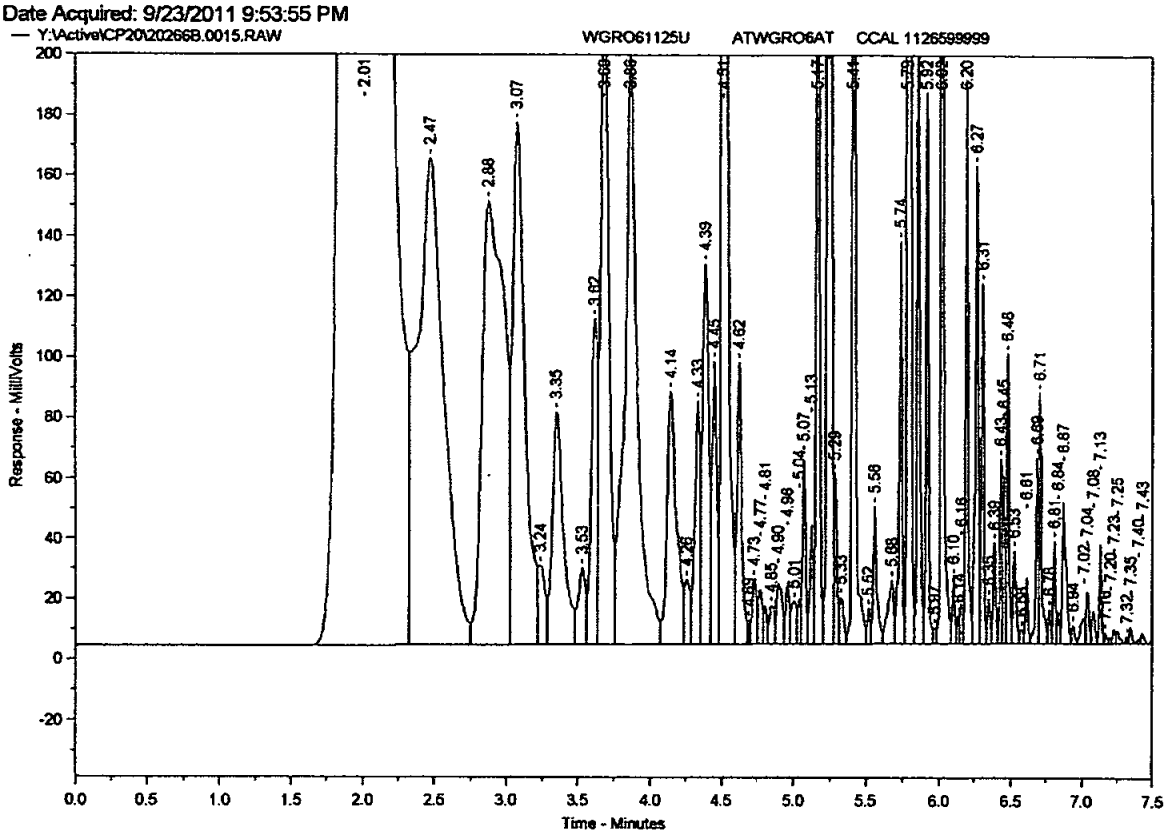
Surrogate Percent Recovery: 224.9615

Total GRO Area: 6597136.00
Total GRO Concentration: 2511.20 ug/L

File: Y:\Active\CP20\20266B.0013.RAW

ASX73 0982

WGRO61125U ATWGRO6AT CCAL 1126599999
CP20 11002F 20266B.0015.RAW
Date Acquired: 9/23/2011 9:53:55 PM



WGRO61125U ATWGRO6AT CCAL 1126599999

Date Acquired: 9/23/2011 9:53:55 PM	**Instrument: CP20 11002F**
Raw File: 20266B.0015.RAW	**Units: ug/L**
Analyst:	**Method File: [PT1]8015B20266.met**
Dilution Factor: 1	**Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 6
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.77	6.12	16043920	0	16043920

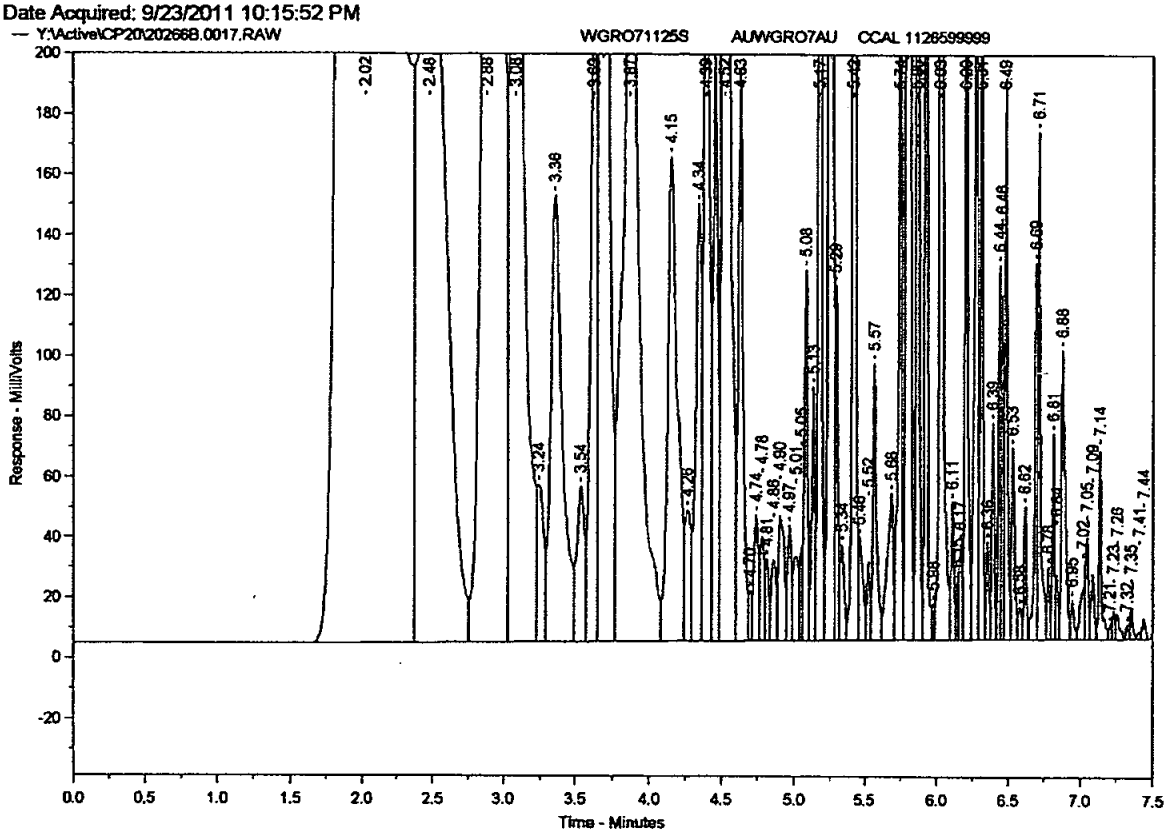
Surrogate Percent Recovery: 0

Total GRO Area: 16043920.00
Total GRO Concentration: 9243.03 ug/L

File: Y:\Active\CP20\20266B.0015.RAW

ASX73 0983

WGRO71125S AUWGRO7AU CCAL 1126599999
CP20 11002F 20266B.0017.RAW
Date Acquired: 9/23/2011 10:15:52 PM



WGRO71125S AUWGRO7AU CCAL 1126599999

Date Acquired: 9/23/2011 10:15:52 PM	**Instrument: CP20 11002F**
Raw File: 20266B.0017.RAW	**Units: ug/L**
Analyst:	**Method File: [PT1]8015B20266.met**
Dilution Factor: 1	**Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 7
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.77	6.12	32053350	0	32053350

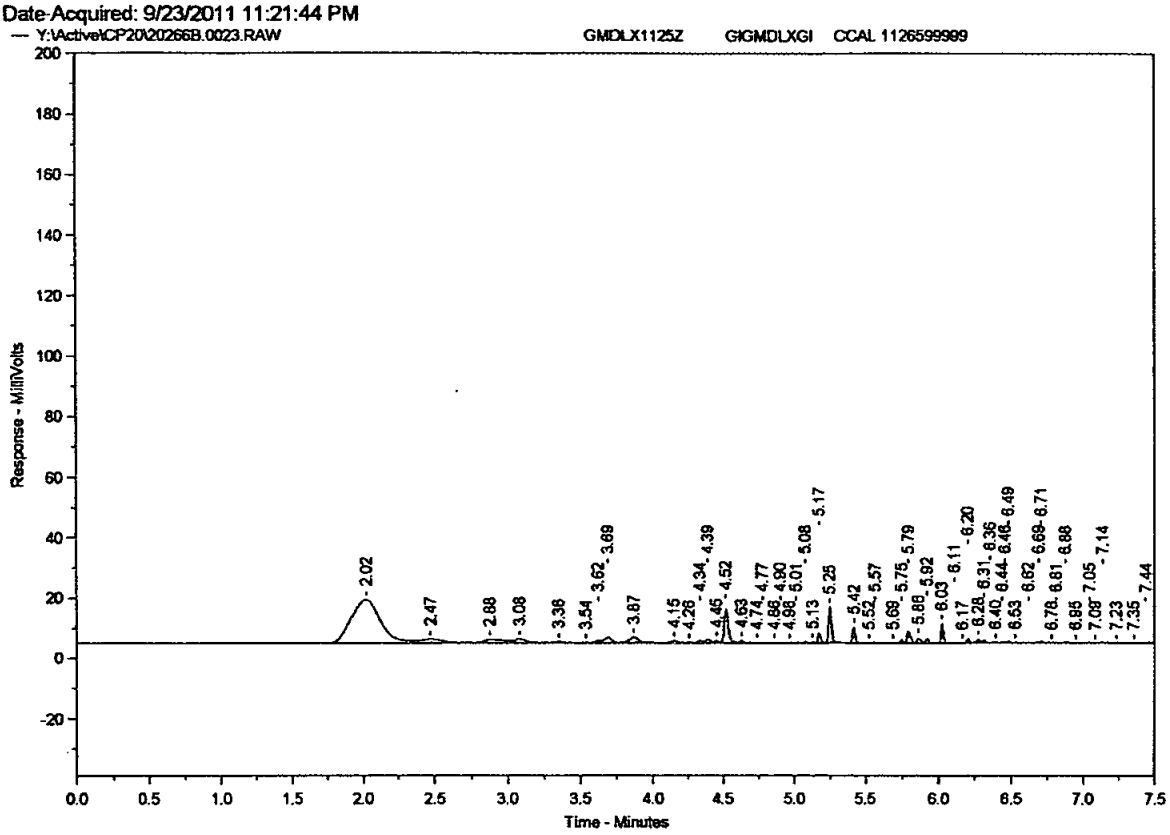
Surrogate Percent Recovery: 0

Total GRO Area: 32053350.00
Total GRO Concentration: 37411.58 ug/L

File: Y:\Active\CP20\20266B.0017.RAW

ASX73 0984

GMDLX1125Z GIGMDLXGI CCAL 1126599999
CP20 11002F 20266B.0023.RAW
Date Acquired: 9/23/2011 11:21:44 PM



GMDLX1125Z GIGMDLXGI CCAL 1126599999
Date Acquired: 9/23/2011 11:21:44 PM **Instrument: CP20 11002F**
Raw File: 20266B.0023.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.met**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 9
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.77	6.12	131663	0	131663

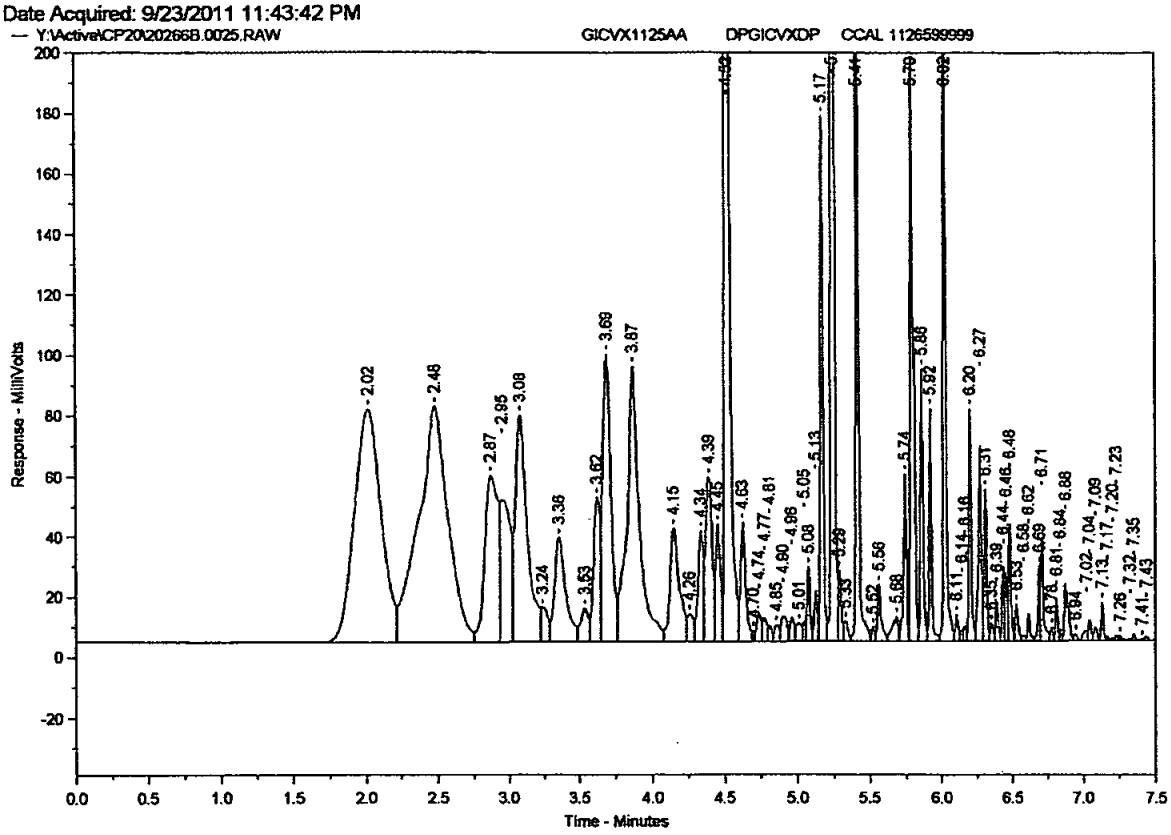
Surrogate Percent Recovery: 0

Total GRO Area: 131663.10
Total GRO Concentration: 22.68 ug/L

File: Y:\Active\CP20\20266B.0023.RAW

ASX73 8985

GICVX1125AA DPGICVXDP CCAL 1126599999
CP20 11002F 20266B.0025.RAW
Date Acquired: 9/23/2011 11:43:42 PM



GICVX1125AA DPGICVXDP CCAL 1126599999
Date Acquired: 9/23/2011 11:43:42 PM **Instrument: CP20 11002F**
Raw File: 20266B.0025.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.met**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 9
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.77	6.12	6799159	0	6799159

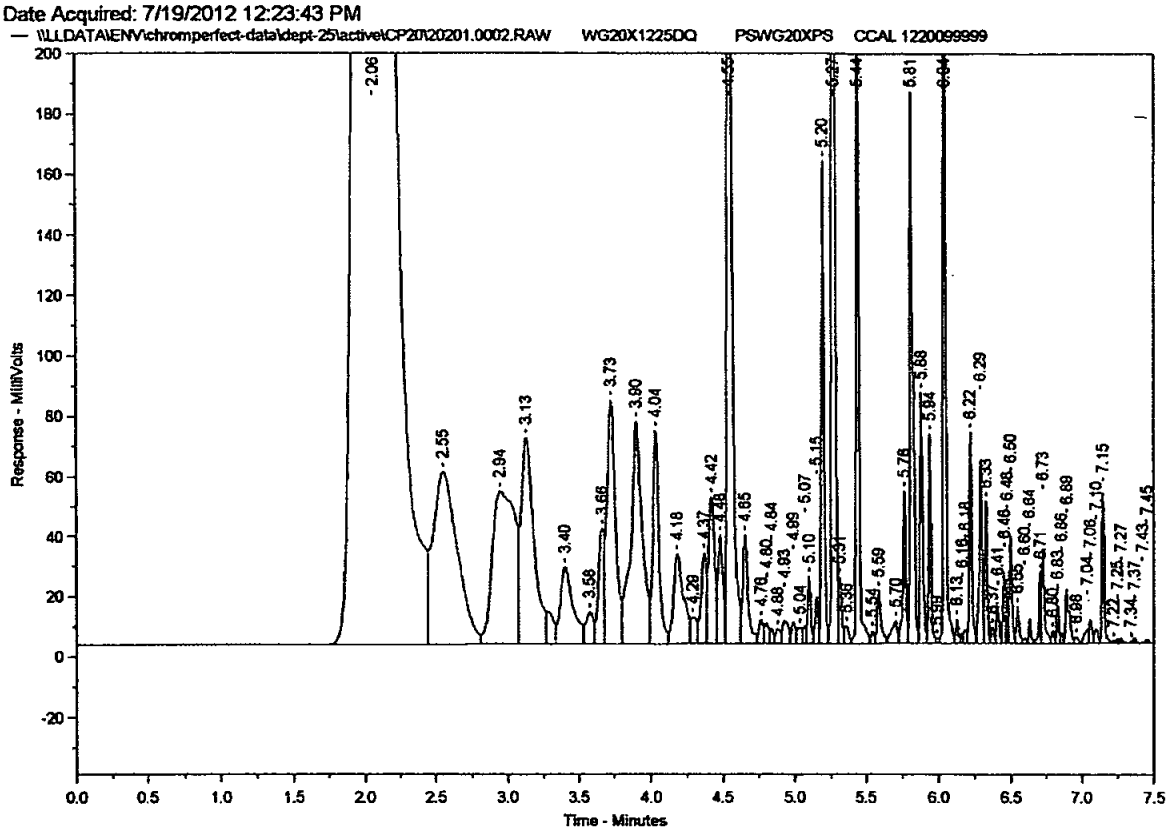
Surrogate Percent Recovery: 0

Total GRO Area: 6799159.00
Total GRO Concentration: 1171.37 ug/L

File: Y:\Active\CP20\20266B.0025.RAW

ASX73 0986

WG20X1225DQ PSWG20XPS CCAL 1220099999
CP20 11002F 20201.0002.RAW
Date Acquired: 7/19/2012 12:23:43 PM



WG20X1225DQ PSWG20XPS CCAL 1220099999
Date Acquired: 7/19/2012 12:23:43 PM **Instrument: CP20 11002F**
Raw File: 20201.0002.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.MET**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 9
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)
SURR-TFT-F	4.04	4.00	34.45	207859	71197.92

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.81	6.13	6267810	207859	6059951

Surrogate Percent Recovery: 114.8484

Total GRO Area: 6059951.00
Total GRO Concentration: 1044.02 ug/L

File: \\LLDATA\ENV\chromperfect-data\dept-25\active\CP20\20201.0002.RAW

ASX73 0987

WG20X1225DQ PVWG20XPV CCAL 1220099999
CP20 11002F 20201.0015.RAW
Date Acquired: 7/19/2012 6:28:38 PM
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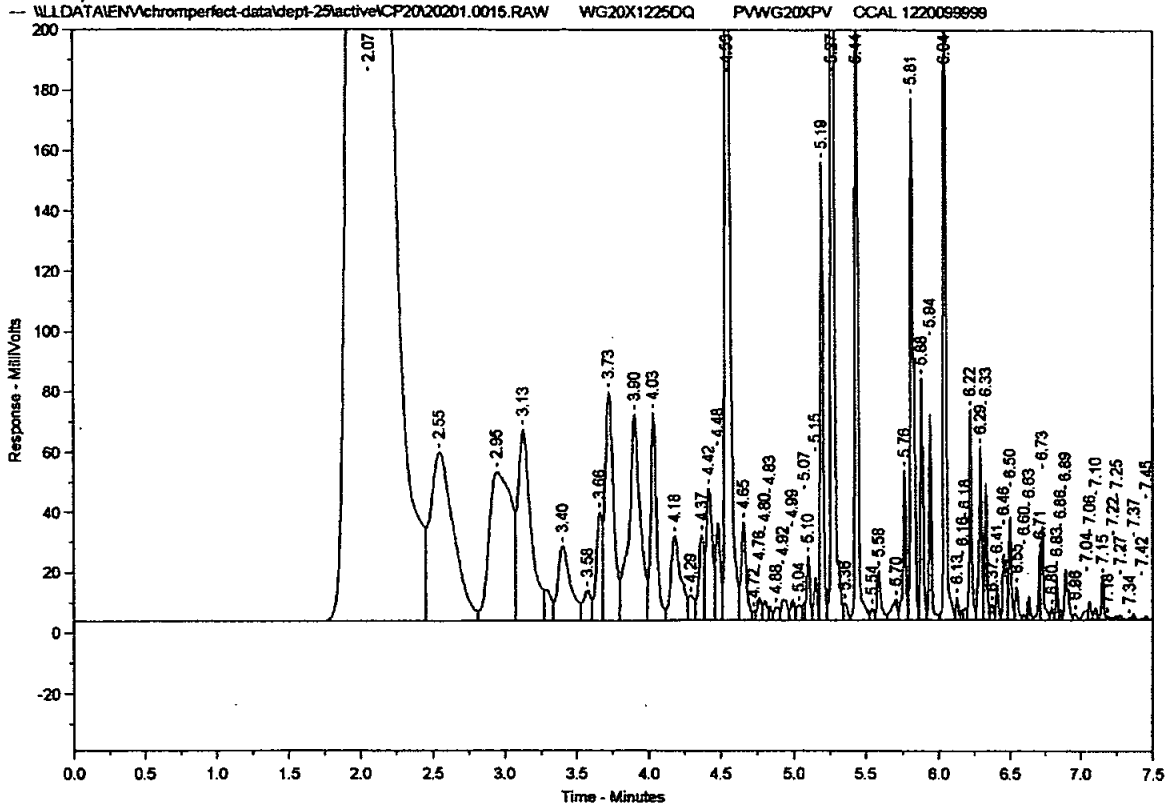

WG20X1225DQ PVWG20XPV CCAL 1220099999
Date Acquired: 7/19/2012 6:28:38 PM **Instrument: CP20 11002F**
Raw File: 20201.0015.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.MET**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 9
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)
SURR-TFT-F	4.03	4.00	32.36	195230	68741.1

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.81	6.13	5938054	195230	5742824

Surrogate Percent Recovery: 107.8707

Total GRO Area: 5742824.00
Total GRO Concentration: 989.38 ug/L

File: \\LLDATA\ENV\chromperfect-data\dept-25\active\CP20\20201.0015.RAW

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\lldata\env\DEPT25\25_SEQUENCES\31348.seq

Chromatography Directory: \\lldata\env\dept25\25_sequences

Method Directory: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31

Number of Entries: 17

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1	GRO MARKER	MISC	AA	31348.0001.RAW	31\8015B31348.MET	1	1	1	0	1134799999	
2	IBLK	T	AA	31348.0002.RAW	31\8015B31348.MET	1	1	1	0	1134799999	
3	IBLK	T	AA	31348.0003.RAW	31\8015B31348.MET	1	1	1	0	1134799999	
4	SGRO11125D	ICAL	AA	31348.0004.RAW	31\8015B31348.MET	1	1	1	1	1134799999	
5	SGRO21125D	ICAL	AA	31348.0005.RAW	31\8015B31348.MET	1	1	1	2	1134799999	
6	SGRO31125D	ICAL	AA	31348.0006.RAW	31\8015B31348.MET	1	1	1	3	1134799999	
7	SGRO41125D	ICAL	AA	31348.0007.RAW	31\8015B31348.MET	1	1	1	4	1134799999	
8	SGRO51125D	ICAL	AA	31348.0008.RAW	31\8015B31348.MET	1	1	1	5	1134799999	
9	IBLK	T	AA	31348.0009.RAW	31\8015B31348.MET	1	1	1	0	1134799999	
10	IBLK	T	AA	31348.0010.RAW	31\8015B31348.MET	1	1	1	0	1134799999	
11	IBLK	T	AA	31348.0011.RAW	31\8015B31348.MET	1	1	1	0	1134799999	
12	MDLGX1125D	T	AA	31348.0012.RAW	31\8015B31348.MET	1	1	1	0	1134799999	
13	ICVGX1125E	CCAL	AY	31348.0013.RAW	31\8015B31348.MET	1	25	1	0	1134799999	
14	ICVGX1125F	CCAL	AZ	31348.0014.RAW	31\8015B31348.MET	1	25	1	0	1134799999	
15	IBLK	T	AA	31348.0015.RAW	31\8015B31348.MET	1	1	1	0	1134799999	
16	IBLK	T	AA	31348.0016.RAW	31\8015B31348.MET	1	1	1	0	1134799999	
17	ICVGX1125G	CCAL	BA	31348.0017.RAW	31\8015B31348.MET	1	25	1	0	1134799999	

Set-up by: LMK2038 Date: 12/14/11

12/14/2011

ASX73 0989

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\ldata\env\DEPT25\25_SEQUENCES\31199.seq

Chromatography Directory: \\ldata\env\dept25\25_sequences

Method Directory: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31

Number of Entries: 42

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2	SGCKX1225DK	CCAL	ZD	31199.0002.RAW	DS\31\GX31348.MET	1	1	30	0	1219899999	
3	BLANKA	BLK	AA	31199.0003.RAW	DS\31\GX31348.MET	1	25	30	0	12199A31A	02005
4	LCSA	LCS	AA	31199.0004.RAW	DS\31\GX31348.MET	1	25	30	0	12199A31A	02005
5	LCSDA	LCSD	AA	31199.0005.RAW	DS\31\GX31348.MET	1	25	30	0	12199A31A	02005
6	6717820	T	AA	31199.0006.RAW	DS\31\GX31348.MET	1	28.51	30	0	12199A31A	02005
7	6717822	T	AA	31199.0007.RAW	DS\31\GX31348.MET	1	34.32	30	0	12199A31A	02005
8	6719818	T	AA	31199.0008.RAW	DS\31\GX31348.MET	1	26.67	30	0	12199A31A	02005
9	6717834	T	AA	31199.0009.RAW	DS\31\GX31348.MET	1	32	30	0	12199A31A	02005
10	6717835	T	AA	31199.0010.RAW	DS\31\GX31348.MET	1	35.19	30	0	12199A31A	02005
11	6717837	T	AA	31199.0011.RAW	DS\31\GX31348.MET	1	38.25	30	0	12199A31A	02005
12	6717839	T	AA	31199.0012.RAW	DS\31\GX31348.MET	1	38.66	30	0	12199A31A	02005
13	6719824	T	AA	31199.0013.RAW	DS\31\GX31348.MET	1	28.67	30	0	12199A31A	02005
14	6717821	T	AA	31199.0014.RAW	DS\31\GX31348.MET	1	620.73	30	0	12199A31A	02005
15	6717836	T	AA	31199.0015.RAW	DS\31\GX31348.MET	1	56.77	30	0	12199A31A	02005
16	SGCKX1225DK	CCAL	ZF	31199.0016.RAW	DS\31\GX31348.MET	1	1	30	0	1219899999	
17	6717838	T	AA	31199.0017.RAW	DS\31\GX31348.MET	1	259.75	30	0	12199A31A	02005
18	6719815	T	AA	31199.0018.RAW	DS\31\GX31348.MET	1	498.52	30	0	12199A31A	02005
19	6719816	T	AA	31199.0019.RAW	DS\31\GX31348.MET	1	1064.95	30	0	12199A31A	02005
20	6719817	T	AA	31199.0020.RAW	DS\31\GX31348.MET	1	598.38	30	0	12199A31A	02005
21	6719819	T	AA	31199.0021.RAW	DS\31\GX31348.MET	1	1035.07	30	0	12199A31A	02005
22	6719820	T	AA	31199.0022.RAW	DS\31\GX31348.MET	1	288.16	30	0	12199A31A	02005
23	6719821	T	AA	31199.0023.RAW	DS\31\GX31348.MET	1	2522.37	30	0	12199A31A	02005
24	6719822	T	AA	31199.0024.RAW	DS\31\GX31348.MET	1	3169.1	30	0	12199A31A	02005
25	6719823	T	AA	31199.0025.RAW	DS\31\GX31348.MET	1	310.63	30	0	12199A31A	02005
26	6717823	T	AA	31199.0026.RAW	DS\31\GX31348.MET	1	312.04	30	0	12199A31A	02005
27	SGCKX1225DK	CCAL	ZE	31199.0027.RAW	DS\31\GX31348.MET	1	1	30	0	1219899999	
28	6719818DF42	T	AB	31199.0028.RAW	DS\31\GX31348.MET	1	53.35	30	0	12199A31A	02005
29	6717838DF3247	T	AB	31199.0029.RAW	DS\31\GX31348.MET	1	3246.82	30	0	12199A31A	02005
30	6719815DF471	T	AB	31199.0030.RAW	DS\31\GX31348.MET	1	498.52	30	0	12199A31A	02005
31	SGCKX1225DL	CCAL	ZL	31199.0031.RAW	DS\31\GX31348.MET	1	1	30	0	1219899999	
32	IBLK	T	AA	31199.0032.RAW	DS\31\GX31348.MET	1	1	30	0	1219899999	
33	SGCKX1225DL	CCAL	ZM	31199.0033.RAW	DS\31\GX31348.MET	1	1	30	0	1219899999	
34	BLANKB	BLK	AA	31199.0034.RAW	DS\31\GX31348.MET	1	25	30	0	12199A31B	02005
35	6717823	T	AA	31199.0035.RAW	DS\31\GX31348.MET	1	1248.14	30	0	12199A31B	02005
36	6719820	T	AA	31199.0036.RAW	DS\31\GX31348.MET	1	57.63	30	0	12199A31B	02005
37	6719815	T	AA	31199.0037.RAW	DS\31\GX31348.MET	1	997.04	30	0	12199A31B	02005
38	6719822	T	AA	31199.0038.RAW	DS\31\GX31348.MET	1	1267.64	30	0	12199A31B	02005
39	6719823	T	AA	31199.0039.RAW	DS\31\GX31348.MET	1	62.13	30	0	12199A31B	02005
40	SGCKX1225DL	CCAL	ZP	31199.0040.RAW	DS\31\GX31348.MET	1	1	30	0	1219899999	
41	IBLK	T	AA	31199.0041.RAW	DS\31\GX31348.MET	1	1	30	0	1219899999	
42	SGCKX1225DM	CCAL	ZX	31199.0042.RAW	DS\31\GX31348.MET	1	1	30	0	1219999999	

Set-up by: MDS2001 Date: 7-20-12

7/19/2012 LMK2638 7-19-12

ASX73 0990

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\ldata\env\DEPT25\25_SEQUENCES\31200.seq

Chromatography Directory: \\ldata\env\dept25\25_sequences

Method Directory: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31

Number of Entries: 22

GRO CCV ref 31199B.0042

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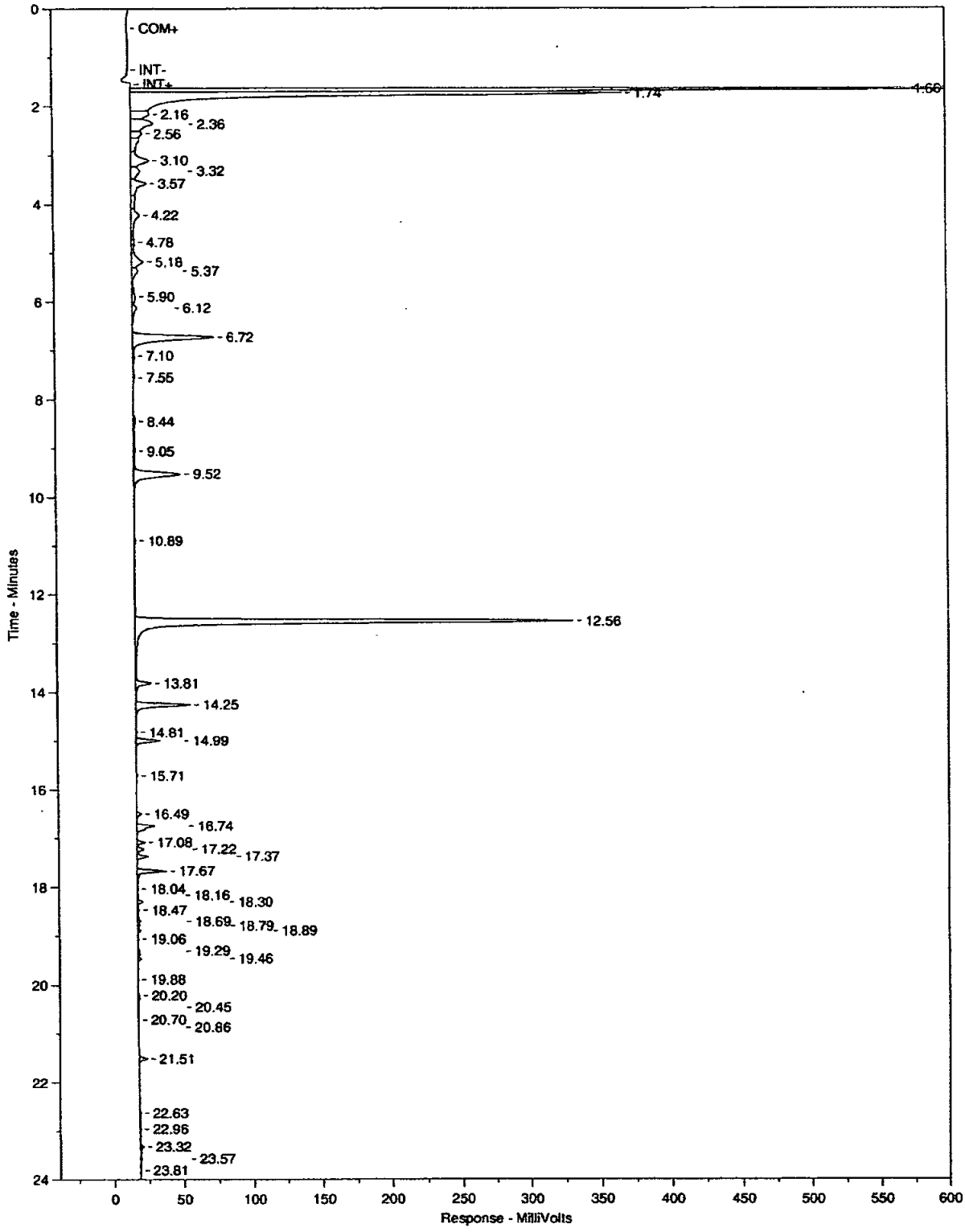
1	BLANKA	BLK	AA	31200.0001.RAW	31\8015B31348.MET	1	25	30	0	12200A31A	01637
2	LCSA	LCS	AA	31200.0002.RAW	31\8015B31348.MET	1	25	30	0	12200A31A	01637
3	LCSDA	LCSD	AA	31200.0003.RAW	31\8015B31348.MET	1	25	30	0	12200A31A	01637
4	6720433	T	AA	31200.0004.RAW	31\8015B31348.MET	1	22.89	30	0	12200A31A	01637
5	6721497	T	AA	31200.0005.RAW	31\8015B31348.MET	1	251.51	30	0	12200A31A	01637
6	6722686	T	AA	31200.0006.RAW	31\8015B31348.MET	1	260.42	30	0	12200A31A	01637
7	6722044	T	AA	31200.0007.RAW	31\8015B31348.MET	1	249.5	30	0	12200A31A	01637
8	6721503	T	AA	31200.0008.RAW	31\8015B31348.MET	1	25.18	30	0	12200A31A	01637
9	6721507	T	AA	31200.0009.RAW	31\8015B31348.MET	1	22.98	30	0	12200A31A	01637
10	6718767	T	AA	31200.0010.RAW	31\8015B31348.MET	1	26.21	30	0	12200A31A	01637
11	6718768	T	AA	31200.0011.RAW	31\8015B31348.MET	1	25.23	30	0	12200A31A	01637
12	6719561	T	AA	31200.0012.RAW	31\8015B31348.MET	1	25.25	30	0	12200A31A	01637
13	6719562	T	AA	31200.0013.RAW	31\8015B31348.MET	1	25.59	30	0	12200A31A	01637
14	SGCKX1225DM	CCAL	ZZ	31200.0014.RAW	31\8015B31348.MET	1	1	30	0	1219999999	01637
15	6719563	T	AA	31200.0015.RAW	31\8015B31348.MET	1	25.48	30	0	12200A31A	01637
16	6719564	T	AA	31200.0016.RAW	31\8015B31348.MET	1	24.9	30	0	12200A31A	01637
17	6719565	T	AA	31200.0017.RAW	31\8015B31348.MET	1	26.21	30	0	12200A31A	01637
18	6722045	T	AA	31200.0018.RAW	31\8015B31348.MET	1	511.77	30	0	12200A31A	01637
19	6722046	T	AA	31200.0019.RAW	31\8015B31348.MET	1	490.2	30	0	12200A31A	01637
20	SGCKX1225DM	CCAL	AB	31200.0020.RAW	31\8015B31348.MET	1	1	30	0	1219999999	01637
21	IBLK	PIBLK	AA	31200.0021.RAW	31\8015B31348.MET	1	1	30	0	12200A31A	01637
22	SS1220025B	T	AA	31200.0022.RAW	31\8015B31348.MET	1	25	30	0	12200A31A	01637

Set-up by: MDJ2001 Date: 7-19-12

7/18/2012 LMK2638 7-19-12

ASX73 0991

SGRO11125D AASGRO1AA ICAL 1134799999
12/14/2011 12:25:53 PM Batch:
— Y:\Active\CP31\31348B.0004.RAW SGRO11125D AASGRO1AA ICAL 1134799999



SGRO11125D AASGRO1AA ICAL 1134799999

ASX73 892

Date Acquired: 12/14/2011 12:25:53 PM
Instrument: CP31--FID
Units: ug/kg **Vial Position: VI#**
Dilution Factor: 1
Raw File: Y:\Active\CP31\31348B.0004.RAW
Method File: 8015B31348.met **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 1
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.66	0.00	0.00	2176473	757981.2
	1.74	0.00	0.00	2149411	351383.5
	2.16	0.00	0.00	111259	13657.86
	2.36	0.00	0.00	178926	16429.8
	2.56	0.00	0.00	57030	8233.164
	3.10	0.00	0.00	135132	13095.45
	3.32	0.00	0.00	75220	6611.134
	3.57	0.00	0.00	111809	10978.04
	4.22	0.00	0.00	84611	5974.653
	4.78	0.00	0.00	28353	2094.19
	5.18	0.00	0.00	95470	8383.528
	5.37	0.00	0.00	41881	4255.283
	5.90	0.00	0.00	35622	2398.603
	6.12	0.00	0.00	35696	3554.722
SURR-TFT-F	6.72	6.75	0.28	418378	58075.23
	7.10	0.00	0.00	15059	1183.546
	7.55	0.00	0.00	14116	1068.208
	8.44	0.00	0.00	17274	1374.273
	9.05	0.00	0.00	11937	1075.665
	9.52	0.00	0.00	262602	33958.93
	10.89	0.00	0.00	10901	1184.234
SURR-1C3FB	12.56	12.57	0.99	1742271	314629.4
	13.81	0.00	0.00	76554	11628.05
	14.25	0.00	0.00	201712	39582.52
	14.81	0.00	0.00	5790	1035.089
	14.99	0.00	0.00	76540	17778.75
	15.71	0.00	0.00	7530	1293.092
	16.49	0.00	0.00	16320	3653.852
	16.74	0.00	0.00	69270	13163.62
	17.08	0.00	0.00	22060	5954.47
	17.22	0.00	0.00	21734	5135.8
	17.37	0.00	0.00	32459	8044.807
	17.67	0.00	0.00	83715	21473.63
	18.04	0.00	0.00	4382	722.1683
	18.16	0.00	0.00	3113	629.2706
	18.30	0.00	0.00	16607	4403.612
	18.47	0.00	0.00	5794	1540.856
	18.69	0.00	0.00	12899	2326.999
	18.79	0.00	0.00	6660	1667.073
	18.89	0.00	0.00	8949	2413.371
	19.06	0.00	0.00	3217	747.2098
	19.29	0.00	0.00	4680	1400.845
	19.46	0.00	0.00	8989	2617.727
	19.88	0.00	0.00	1694	431.3646
	20.20	0.00	0.00	3632	1139.356
	20.45	0.00	0.00	1397	424.3173
	20.70	0.00	0.00	1759	423.3998
	20.86	0.00	0.00	1605	504.4368
	21.51	0.00	0.00	20835	6034.844
	22.63	0.00	0.00	6439	805.0284
	22.96	0.00	0.00	5200	758.0952
	23.32	0.00	0.00	12978	2672.379
	23.57	0.00	0.00	5019	1194.936

ASX73 8993

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	23.81	0.00	0.00	2852	610.1602

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.99	17.77	3750016	2160649	1589367

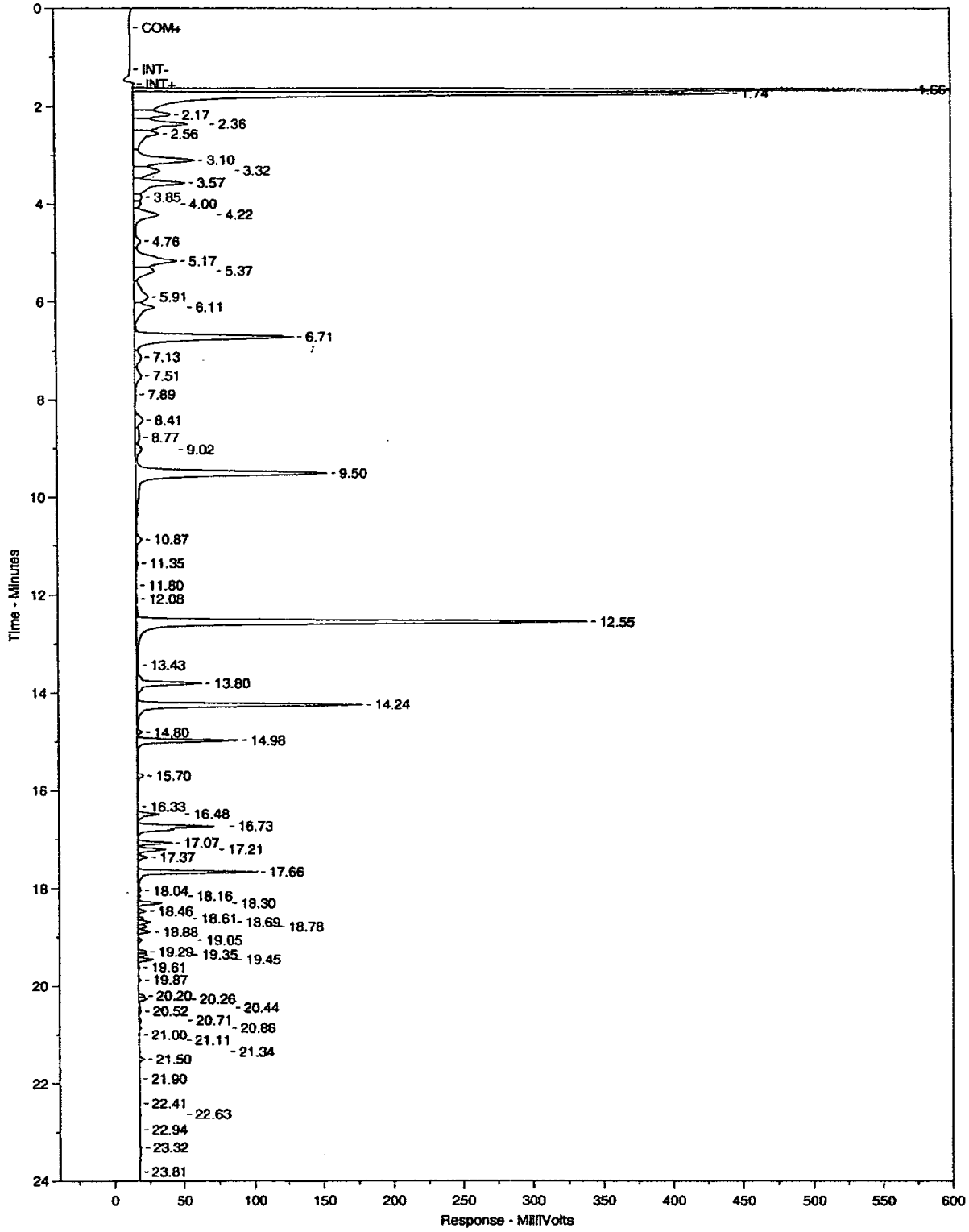
Surrogate Percent Recovery: 0.9360818

Total GRO Area: 1589367
Total GRO Concentration: 31.21 PPB

SGRO11125D AASGRO1AA ICAL 1134799999
Batch:
Analyst:
Raw File: Y:\Active\CP31\31348B.0004.RAW
Method: I:\Methods\31\8015B31348.met
Date: 12/14/2011 4:52:04 PM
File: Y:\Active\CP31\31348B.0004.RAW

ASX73 0994

SGRO21125D AASGRO2AA ICAL 1134799999
12/14/2011 1:01:54 PM Batch:
— Y:\Active\CP31\31348B.0005.RAW SGRO21125D AASGRO2AA ICAL 1134799999



SGRO21125D AASGRO2AA ICAL 1134799999

Date Acquired: 12/14/2011 1:01:54 PM
Instrument: CP31–FID
Units: ug/kg **Vial Position: VI#**
Dilution Factor: 1
Raw File: Y:\Active\CP31\31348B.0005.RAW
Method File: 8015B31348.met **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 2
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.66	0.00	0.00	2431551	840435.9
	1.74	0.00	0.00	2554325	425433.4
	2.17	0.00	0.00	209278	26804.31
	2.36	0.00	0.00	327849	39455.77
	2.56	0.00	0.00	203408	18614.1
	3.10	0.00	0.00	389324	44078.59
	3.32	0.00	0.00	190571	19211.61
	3.57	0.00	0.00	311745	36997.72
	3.85	0.00	0.00	43290	5931.574
	4.00	0.00	0.00	39728	5068.054
	4.22	0.00	0.00	184826	18181.19
	4.76	0.00	0.00	51117	4654.151
	5.17	0.00	0.00	319217	30798.9
	5.37	0.00	0.00	147193	14298
	5.91	0.00	0.00	157704	9944.534
	6.11	0.00	0.00	152886	14459.73
SURR-TFT-F	6.71	6.72	0.68	842054	113918.5
	7.13	0.00	0.00	67053	4599.414
	7.51	0.00	0.00	69166	4554.095
	7.89	0.00	0.00	8292	828.9058
	8.41	0.00	0.00	65806	5643.532
	8.77	0.00	0.00	51275	3084.336
	9.02	0.00	0.00	51497	4445.53
	9.50	0.00	0.00	1081779	137343.9
	10.87	0.00	0.00	40764	4250.725
	11.35	0.00	0.00	9540	1026.515
	11.80	0.00	0.00	2452	381.7254
	12.08	0.00	0.00	3082	490.2173
SURR-1C3FB	12.55	12.56	1.24	1786285	322633.2
	13.43	0.00	0.00	9338	1273.884
	13.80	0.00	0.00	255109	46921
	14.24	0.00	0.00	786594	161728.5
	14.80	0.00	0.00	16707	3511.318
	14.98	0.00	0.00	303051	72549.8
	15.70	0.00	0.00	27335	4785.121
	16.33	0.00	0.00	2954	692.1039
	16.48	0.00	0.00	72234	15644.77
	16.73	0.00	0.00	288347	54957.1
	17.07	0.00	0.00	89503	24804.18
	17.21	0.00	0.00	79779	20334.65
	17.37	0.00	0.00	33739	7253.001
	17.66	0.00	0.00	310018	85440.42
	18.04	0.00	0.00	14449	2514.962
	18.16	0.00	0.00	7718	1669.882
	18.30	0.00	0.00	61608	17476.95
	18.46	0.00	0.00	22354	5857.825
	18.61	0.00	0.00	14828	4105.588
	18.69	0.00	0.00	33673	9117.935
	18.78	0.00	0.00	24493	6487.874
	18.88	0.00	0.00	35322	9469.678
	19.05	0.00	0.00	11920	3021.858
	19.29	0.00	0.00	21274	6053.234
	19.35	0.00	0.00	22788	6580.905

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Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	19.45	0.00	0.00	37445	10850.9
	19.61	0.00	0.00	7349	913.7623
	19.87	0.00	0.00	8190	1841.823
	20.20	0.00	0.00	13510	4427.91
	20.26	0.00	0.00	20009	6236.615
	20.44	0.00	0.00	4680	1444.258
	20.52	0.00	0.00	7804	1869.439
	20.71	0.00	0.00	10714	1867.124
	20.86	0.00	0.00	7305	1970.44
	21.00	0.00	0.00	2765	830.0911
	21.11	0.00	0.00	2103	579.2659
	21.34	0.00	0.00	7682	976.8649
	21.50	0.00	0.00	16074	3824.919
	21.90	0.00	0.00	4224	397.3698
	22.41	0.00	0.00	1479	372.6145
	22.63	0.00	0.00	4541	651.0615
	22.94	0.00	0.00	2481	449.3257
	23.32	0.00	0.00	4042	1071.138
	23.81	0.00	0.00	1478	322.4405

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.99	17.77	8341352	2628339	5713013

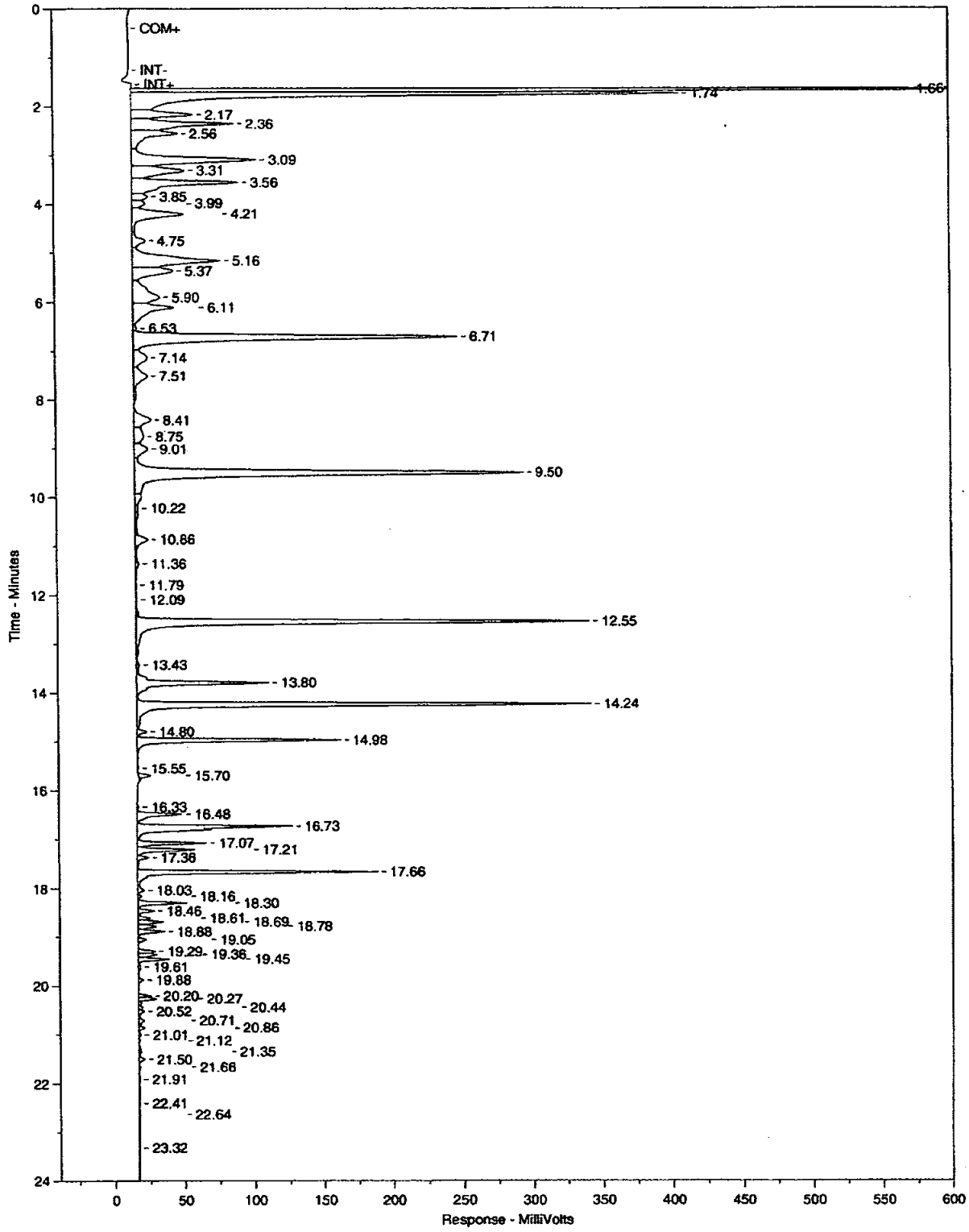
Surrogate Percent Recovery: 2.272451

Total GRO Area: 5713013
Total GRO Concentration: 144.86 PPB

SGRO21125D AASGRO2AA ICAL 1134799999
Batch:
Analyst:
Raw File: Y:\Active\CP31\31348B.0005.RAW
Method: I:\Methods\31\8015B31348.met
Date: 12/14/2011 4:52:08 PM
File: Y:\Active\CP31\31348B.0005.RAW

ASX73 8997

SGRO31125D AASGRO3AA ICAL 1134799999
12/14/2011 1:37:59 PM Batch:
— Y:\Active\CP31\31348B.0006.RAW SGRO31125D AASGRO3AA ICAL 1134799999



SGRO31125D AASGRO3AA ICAL 1134799999

Date Acquired: 12/14/2011 1:37:59 PM
Instrument: CP31--FID
Units: ug/kg **Vial Position: VI#**
Dilution Factor: 1
Raw File: Y:\Active\CP31\31348B.0006.RAW
Method File: 8015B31348.met **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 3
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.66	0.00	0.00	2537199	874762.4
	1.74	0.00	0.00	2320511	390837.9
	2.17	0.00	0.00	307016	44189.53
	2.36	0.00	0.00	528868	73067.73
	2.56	0.00	0.00	290422	32846.63
	3.09	0.00	0.00	728526	88989.65
	3.31	0.00	0.00	354437	37709.91
	3.56	0.00	0.00	587671	75876
	3.85	0.00	0.00	78138	11032.66
	3.99	0.00	0.00	68461	9272.519
	4.21	0.00	0.00	348379	36444.35
	4.75	0.00	0.00	89421	9004.094
	5.16	0.00	0.00	621987	62647.84
	5.37	0.00	0.00	283513	28658.04
	5.90	0.00	0.00	317815	19241.85
	6.11	0.00	0.00	295116	29100.71
	6.53	0.00	0.00	14519	2417.321
SURR-TFT-F	6.71	6.71	1.75	1664086	231651.6
	7.14	0.00	0.00	140281	9722.163
	7.51	0.00	0.00	144140	9706.044
	8.41	0.00	0.00	146730	11928.74
	8.75	0.00	0.00	110739	6674.002
	9.01	0.00	0.00	110739	9512.697
	9.50	0.00	0.00	2144595	277882.8
	10.22	0.00	0.00	18532	2336.107
	10.86	0.00	0.00	106053	8962.732
	11.36	0.00	0.00	33553	2456.864
	11.79	0.00	0.00	3285	460.8081
	12.09	0.00	0.00	6892	958.5916
SURR-1C3FB	12.55	12.55	1.63	1811990	324549.3
	13.43	0.00	0.00	16138	2028.795
	13.80	0.00	0.00	510065	94572.44
	14.24	0.00	0.00	1567581	325561.7
	14.80	0.00	0.00	32543	6877.06
	14.98	0.00	0.00	600943	145692.7
	15.55	0.00	0.00	6943	824.406
	15.70	0.00	0.00	31245	8283.531
	16.33	0.00	0.00	5129	1316.571
	16.48	0.00	0.00	143763	31662.29
	16.73	0.00	0.00	577503	110751.1
	17.07	0.00	0.00	175696	49419.02
	17.21	0.00	0.00	155136	40846.9
	17.36	0.00	0.00	30499	7647.919
	17.66	0.00	0.00	614381	172183.9
	18.03	0.00	0.00	23820	4500.988
	18.16	0.00	0.00	10528	2550.417
	18.30	0.00	0.00	120963	35023.18
	18.46	0.00	0.00	41648	11538.47
	18.61	0.00	0.00	30003	8273.914
	18.69	0.00	0.00	67093	18251.15
	18.78	0.00	0.00	48614	13090.74
	18.88	0.00	0.00	70117	18902.63
	19.05	0.00	0.00	22814	5956.478

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Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	19.29	0.00	0.00	40927	12153.29
	19.36	0.00	0.00	45235	13157.53
	19.45	0.00	0.00	75576	22079.57
	19.61	0.00	0.00	14748	1634.998
	19.88	0.00	0.00	14830	3647.416
	20.20	0.00	0.00	28110	9159.104
	20.27	0.00	0.00	41653	12803.21
	20.44	0.00	0.00	11330	3115.308
	20.52	0.00	0.00	16643	3942.206
	20.71	0.00	0.00	22946	4002.231
	20.86	0.00	0.00	16052	4157.397
	21.01	0.00	0.00	5092	1407.941
	21.12	0.00	0.00	4005	947.3602
	21.35	0.00	0.00	12916	1557.846
	21.50	0.00	0.00	18511	4098.873
	21.66	0.00	0.00	5222	901.5367
	21.91	0.00	0.00	3555	591.173
	22.41	0.00	0.00	1869	526.4484
	22.64	0.00	0.00	7737	754.1548
	23.32	0.00	0.00	3426	343.7793

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.99	17.77	14697160	3476077	11221080

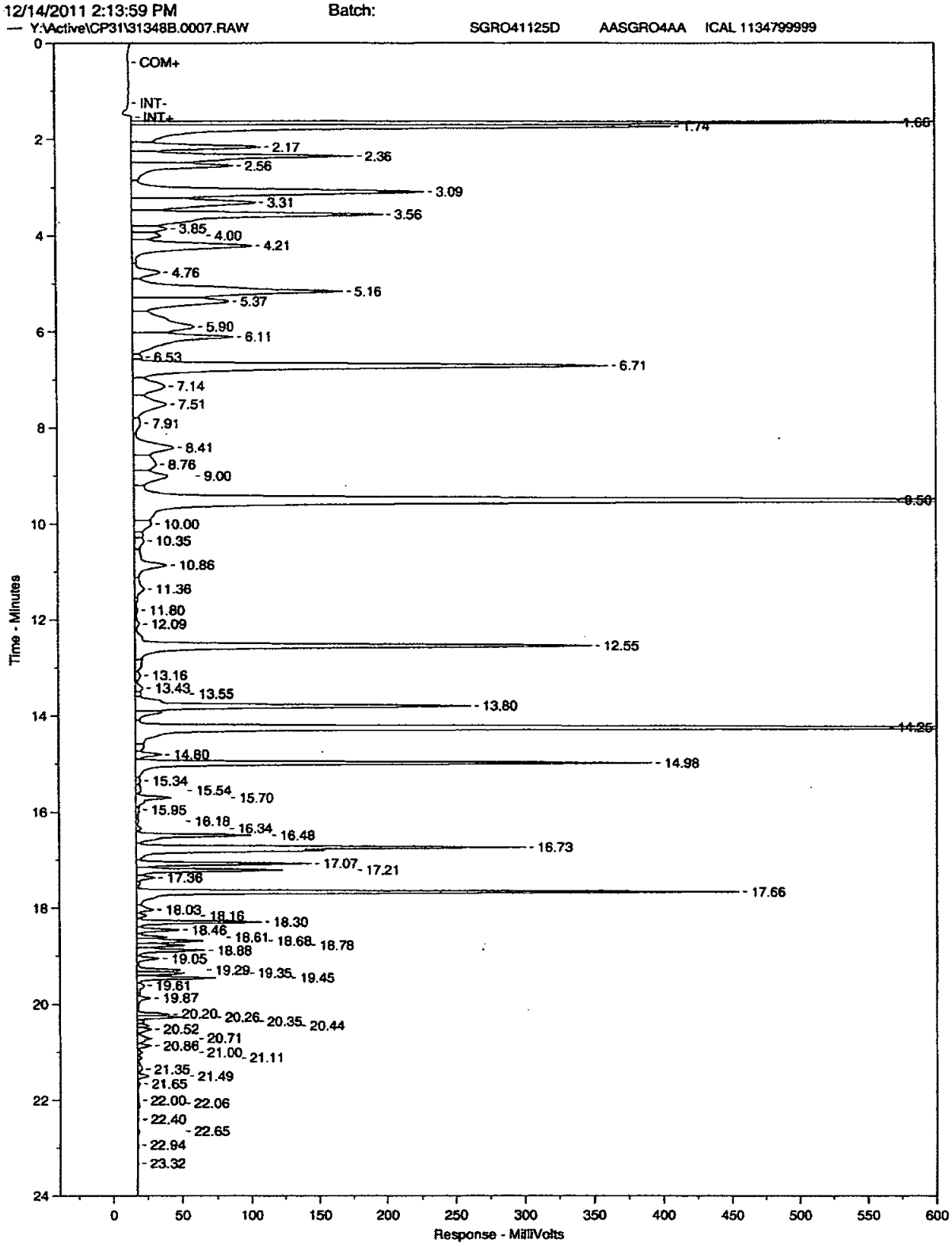
Surrogate Percent Recovery: 5.846818

Total GRO Area: 1.122108E+07
Total GRO Concentration: 381.56 PPB

SGRO31125D AASGRO3AA ICAL 1134799999
Batch:
Analyst:
Raw File: Y:\Active\CP31\31348B.0006.RAW
Method: I:\Methods\31\8015B31348.met
Date: 12/14/2011 4:52:13 PM
File: Y:\Active\CP31\31348B.0006.RAW

ASX73 1000

SGRO41125D AASGRO4AA ICAL 1134799999
12/14/2011 2:13:59 PM Batch:



SGRO41125D AASGRO4AA ICAL 1134799999

ASX73 1001

Date Acquired: 12/14/2011 2:13:59 PM
Instrument: CP31--FID
Units: ug/kg **Vial Position: VI#**
Dilution Factor: 1
Raw File: Y:\Active\CP31\31348B.0007.RAW
Method File: 8015B31348.met **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 4
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.66	0.00	0.00	2341656	809243.8
	1.74	0.00	0.00	2382060	391145.6
	2.17	0.00	0.00	609265	93965.88
	2.36	0.00	0.00	1114145	161427.9
	2.56	0.00	0.00	570284	73360.13
	3.09	0.00	0.00	1735209	213049.7
	3.31	0.00	0.00	854324	89651.2
	3.56	0.00	0.00	1451827	182906.1
	3.85	0.00	0.00	177607	25393.63
	4.00	0.00	0.00	155282	21173.02
	4.21	0.00	0.00	830504	86859.89
	4.76	0.00	0.00	203856	20286.32
	5.16	0.00	0.00	1531528	152853.1
	5.37	0.00	0.00	716606	69278.27
	5.90	0.00	0.00	758261	44443.89
	6.11	0.00	0.00	780090	72509.97
	6.53	0.00	0.00	41091	6971.984
SURR-TFT-F	6.71	6.71	3.92	2578010	344801.8
	7.14	0.00	0.00	348012	23165.49
	7.51	0.00	0.00	376189	24038.58
	7.91	0.00	0.00	79510	5258.954
	8.41	0.00	0.00	381570	28970.91
	8.76	0.00	0.00	271264	16460.63
	9.00	0.00	0.00	312785	24701.13
	9.50	0.00	0.00	5474464	706394.8
	10.00	0.00	0.00	148342	12758.92
	10.35	0.00	0.00	84163	6985.358
	10.86	0.00	0.00	294629	23530.25
	11.36	0.00	0.00	107463	6959.149
	11.80	0.00	0.00	20425	2160.979
	12.09	0.00	0.00	36415	3312.994
SURR-1C3FB	12.55	12.55	2.45	1906873	332044.8
	13.16	0.00	0.00	40343	3836.438
	13.43	0.00	0.00	44586	5783.214
	13.55	0.00	0.00	24320	4303.849
	13.80	0.00	0.00	1224290	244230.5
	14.25	0.00	0.00	3970613	831969.9
	14.80	0.00	0.00	96238	19036.72
	14.98	0.00	0.00	1563333	375508
	15.34	0.00	0.00	26671	3504.672
	15.54	0.00	0.00	37065	3900.161
	15.70	0.00	0.00	147085	25519.18
	15.95	0.00	0.00	20902	2557.675
	16.18	0.00	0.00	12230	2006.963
	16.34	0.00	0.00	20025	4043.675
	16.48	0.00	0.00	376411	82900.45
	16.73	0.00	0.00	1481441	283661.6
	17.07	0.00	0.00	452552	127088.7
	17.21	0.00	0.00	399700	106167.3
	17.36	0.00	0.00	58794	13528.7
	17.66	0.00	0.00	1559937	438447.6
	18.03	0.00	0.00	68930	12433.34
	18.16	0.00	0.00	33169	7390.347

ASX73 1082

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	18.30	0.00	0.00	316003	90613.39
	18.46	0.00	0.00	112091	30757.85
	18.61	0.00	0.00	79979	22075.07
	18.68	0.00	0.00	177095	47888.3
	18.78	0.00	0.00	129916	34482.69
	18.88	0.00	0.00	187190	49153.74
	19.05	0.00	0.00	66891	16236.51
	19.29	0.00	0.00	108850	31589.72
	19.35	0.00	0.00	117694	34032.73
	19.45	0.00	0.00	198992	56862.5
	19.61	0.00	0.00	41140	5003.799
	19.87	0.00	0.00	46043	10127.33
	20.20	0.00	0.00	73076	23504.21
	20.26	0.00	0.00	106921	32889.05
	20.35	0.00	0.00	20110	5330.696
	20.44	0.00	0.00	29694	8375.153
	20.52	0.00	0.00	46824	10524.45
	20.71	0.00	0.00	62859	10526.78
	20.86	0.00	0.00	40539	10398.44
	21.00	0.00	0.00	14553	3747.924
	21.11	0.00	0.00	13745	3184.156
	21.35	0.00	0.00	33439	3753.354
	21.49	0.00	0.00	36055	8208.898
	21.65	0.00	0.00	12122	1931.05
	22.00	0.00	0.00	10074	956.9863
	22.06	0.00	0.00	4384	1332.306
	22.40	0.00	0.00	4324	1093.586
	22.65	0.00	0.00	9272	1393.571
	22.94	0.00	0.00	3657	583.5608
	23.32	0.00	0.00	5201	693.9792

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.99	17.77	33212840	4484883	28727950

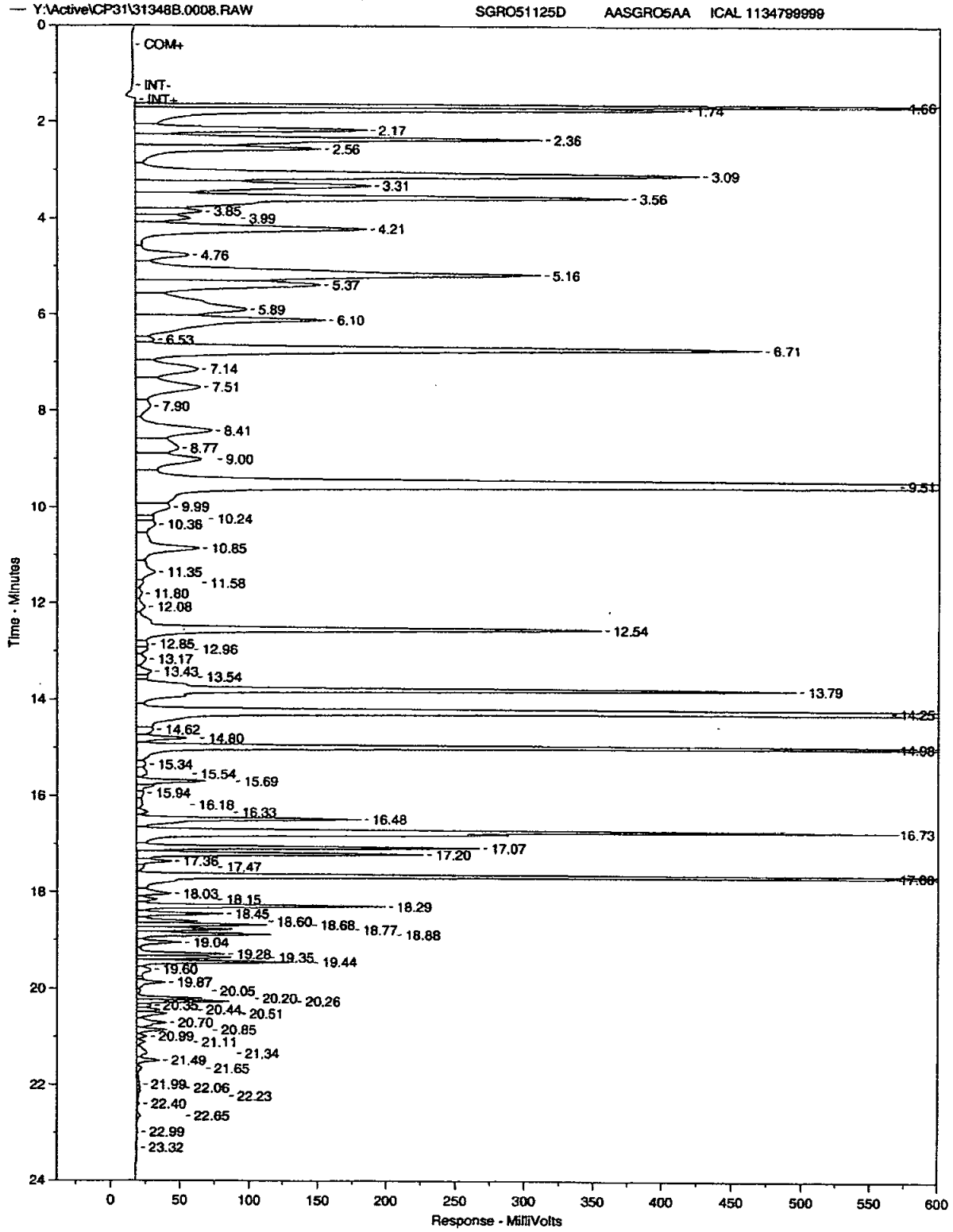
Surrogate Percent Recovery: 13.06242

Total GRO Area: 2.872795E+07
Total GRO Concentration: 1466.73 PPB

SGRO41125D AASGRO4AA ICAL 1134799999
Batch:
Analyst:
Raw File: Y:\Active\CP31\31348B.0007.RAW
Method: I:\Methods\31\8015B31348.met
Date: 12/14/2011 4:52:17 PM
File: Y:\Active\CP31\31348B.0007.RAW

ASX73 1993

SGRO51125D AASGRO5AA ICAL 1134799999
12/14/2011 2:49:59 PM Batch:
— Y:\Active\CP31\31348B.0008.RAW SGRO51125D AASGRO5AA ICAL 1134799999



SGRO51125D AASGRO5AA ICAL 1134799999

ASX73 1864

Date Acquired: 12/14/2011 2:49:59 PM
Instrument: CP31--FID
Units: ug/kg **Vial Position: VI#**
Dilution Factor: 1
Raw File: Y:\Active\CP31\31348B.0008.RAW
Method File: 8015B31348.met **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 5
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.66	0.00	0.00	2482114	857805.3
	1.74	0.00	0.00	2395733	397999
	2.17	0.00	0.00	1036095	168601
	2.36	0.00	0.00	1965820	295020.8
	2.56	0.00	0.00	978157	134678.1
	3.09	0.00	0.00	3274556	409246.1
	3.31	0.00	0.00	1592297	171112.5
	3.56	0.00	0.00	2771341	357298.3
	3.85	0.00	0.00	332311	48159.74
	3.99	0.00	0.00	292561	40217.39
	4.21	0.00	0.00	1553020	167905.9
	4.76	0.00	0.00	370888	39042.91
	5.16	0.00	0.00	2966443	293848
	5.37	0.00	0.00	1361896	134224.3
	5.89	0.00	0.00	1416308	80471.58
	6.10	0.00	0.00	1502848	137688.7
	6.53	0.00	0.00	83950	13657.71
SURR-TFT-F	6.71	6.71	9.65	3468165	453208.1
	7.14	0.00	0.00	660930	45243.18
	7.51	0.00	0.00	731735	46915.63
	7.90	0.00	0.00	167142	10657.42
	8.41	0.00	0.00	739293	55180.56
	8.77	0.00	0.00	503938	31084.35
	9.00	0.00	0.00	640874	47504.58
	9.51	0.00	0.00	10627820	1378149
	9.99	0.00	0.00	304954	24782.78
	10.24	0.00	0.00	78578	12858.27
	10.36	0.00	0.00	174509	14103.86
	10.85	0.00	0.00	588115	45964.66
	11.35	0.00	0.00	216644	13981.92
	11.58	0.00	0.00	44414	5263.448
	11.80	0.00	0.00	45681	4443.556
	12.08	0.00	0.00	72915	6681.563
SURR-1C3FB	12.54	12.55	4.67	2055674	337760.2
	12.85	0.00	0.00	64893	8414.37
	12.96	0.00	0.00	58940	8520.169
	13.17	0.00	0.00	77259	7128.881
	13.43	0.00	0.00	89650	11181.04
	13.54	0.00	0.00	46042	8696.871
	13.79	0.00	0.00	2606800	477824.2
	14.25	0.00	0.00	7708655	1621182
	14.62	0.00	0.00	94275	12518.78
	14.80	0.00	0.00	188880	36453.8
	14.98	0.00	0.00	3061953	737374.1
	15.34	0.00	0.00	54204	6964.372
	15.54	0.00	0.00	78306	8120.469
	15.69	0.00	0.00	231793	50336.26
	15.94	0.00	0.00	42198	5548.286
	16.18	0.00	0.00	47200	4569.146
	16.33	0.00	0.00	43623	8488.053
	16.48	0.00	0.00	743535	162994.7
	16.73	0.00	0.00	2903341	553417.9
	17.07	0.00	0.00	890558	248946.3

ASX73 1995

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	17.20	0.00	0.00	786670	208979.4
	17.36	0.00	0.00	112310	25482.36
	17.47	0.00	0.00	34291	5619.636
	17.66	0.00	0.00	3068045	861660.6
	18.03	0.00	0.00	140407	25142.9
	18.15	0.00	0.00	70364	15042.52
	18.29	0.00	0.00	631572	180966.4
	18.45	0.00	0.00	230392	62461.17
	18.60	0.00	0.00	162538	44099.55
	18.68	0.00	0.00	350926	95063.58
	18.77	0.00	0.00	256807	68843.73
	18.88	0.00	0.00	370603	97719.5
	19.04	0.00	0.00	140788	32824.72
	19.28	0.00	0.00	225156	63688.66
	19.35	0.00	0.00	234405	68480.83
	19.44	0.00	0.00	397289	114651.2
	19.60	0.00	0.00	87854	10323.1
	19.87	0.00	0.00	97095	20732.63
	20.05	0.00	0.00	13042	2760.426
	20.20	0.00	0.00	153523	47750.68
	20.26	0.00	0.00	216201	66661.62
	20.35	0.00	0.00	39339	10813.62
	20.44	0.00	0.00	59594	16856.26
	20.51	0.00	0.00	98691	21846.37
	20.70	0.00	0.00	129155	21691.51
	20.85	0.00	0.00	85424	21708.04
	20.99	0.00	0.00	30734	7601.527
	21.11	0.00	0.00	26971	6148.861
	21.34	0.00	0.00	70243	7741.004
	21.49	0.00	0.00	71497	16681.56
	21.65	0.00	0.00	25701	4078.982
	21.99	0.00	0.00	22308	2068.219
	22.06	0.00	0.00	9690	2839.048
	22.23	0.00	0.00	10300	1609.57
	22.40	0.00	0.00	8437	2236.834
	22.65	0.00	0.00	18604	2760.98
	22.99	0.00	0.00	5114	900.5416
	23.32	0.00	0.00	5248	718.8219

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.99	17.77	61673230	5523839	56149390

Surrogate Percent Recovery: 32.16748

Total GRO Area: 5.614939E+07
Total GRO Concentration: 5752.48 PPB

SGRO51125D AASGRO5AA ICAL 1134799999
Batch:
Analyst:
Raw File: Y:\Active\CP31\31348B.0008.RAW
Method: I:\Methods\31\8015B31348.met
Date: 12/14/2011 4:52:21 PM
File: Y:\Active\CP31\31348B.0008.RAW

ASX73 1006

MDLGX1125D AAAA T 1134799999
12/14/2011 5:13:52 PM Batch:
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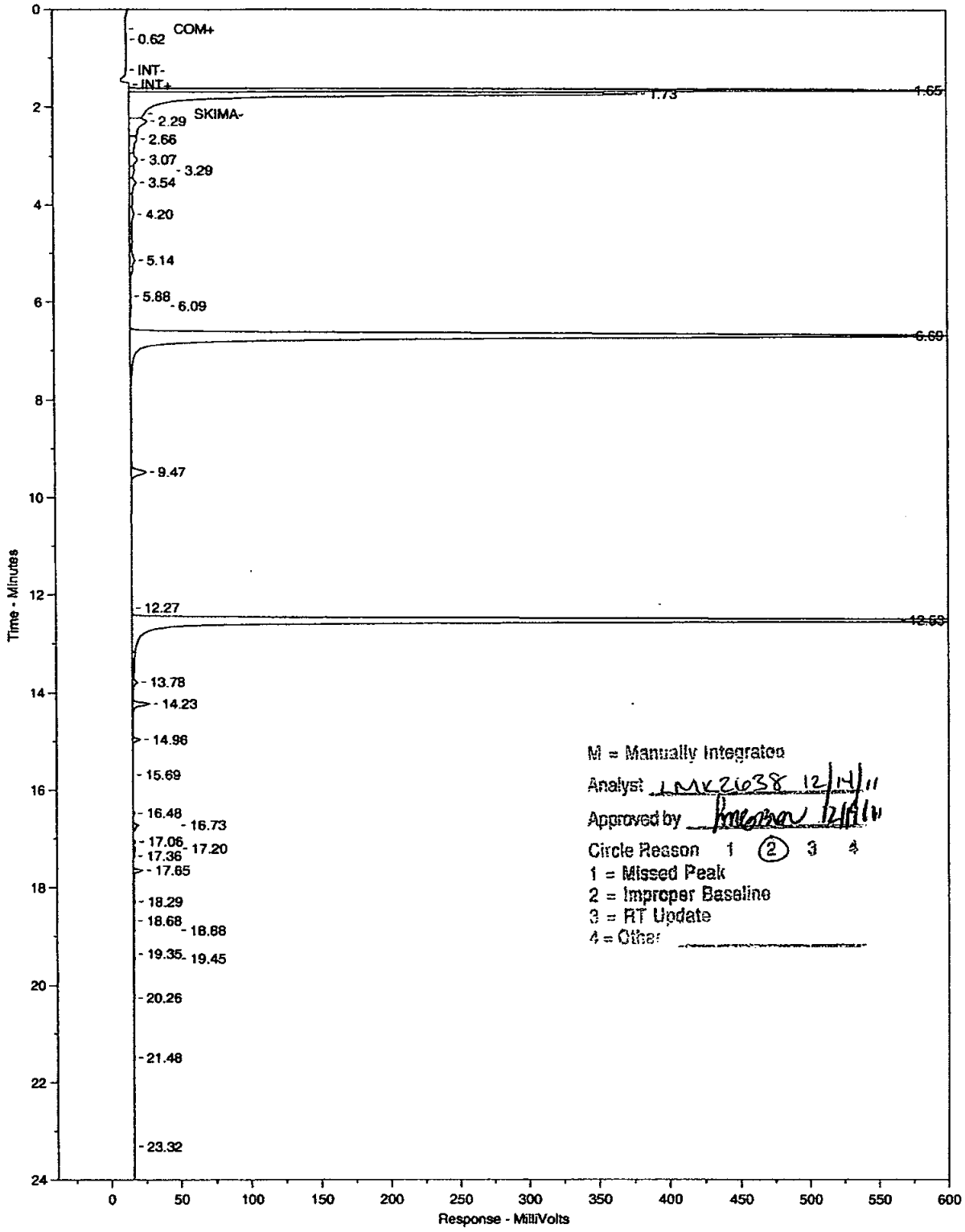

M = Manually Integrated
Analyst: LMX21638 12/14/11
Approved by: [illegible] 12/14/11
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other: _____

MDLGX1125D AAAA T 1134799999

ASX73 1997

Date Acquired: 12/14/2011 5:13:52 PM
Instrument: CP31–FID
Units: ug/kg **Vial Position: Vi#**
Dilution Factor: 1
Raw File: Y:\Active\CP31\31348B.0012.RAW
Method File: 8015B31348.MET **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 7
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	0.62	0.00	0.00	2203	236.9792
	1.65	0.00	0.00	2197652	772757.2
	1.73	0.00	0.00	2321466	363502.6
	2.29	0.00	0.00	184807	12760.56
	2.66	0.00	0.00	84478	5626.005
	3.07	0.00	0.00	68650	5783.578
	3.29	0.00	0.00	42551	3551.72
	3.54	0.00	0.00	62567	4957.373
	4.20	0.00	0.00	43941	3066.61
	5.14	0.00	0.00	49351	3533.364
	5.88	0.00	0.00	10166	832.09
	6.09	0.00	0.00	12373	1198.551
SURR-TFT-F	6.69	6.71	78.36	4426931	601270
	9.47	0.00	0.00	79607	10662.85
	12.27	0.00	0.00	2040	291.1329
SURR-1C3FB	12.53	12.54	75.26	4667451	850003.8
	13.78	0.00	0.00	24790	3971.167
	14.23	0.00	0.00	69547	12343.77
	14.96	0.00	0.00	24448	5548.909
	15.69	0.00	0.00	2243	420.919
	16.48	0.00	0.00	6507	1230.216
	16.73	0.00	0.00	23553	4205.75
	17.06	0.00	0.00	7637	1939.672
	17.20	0.00	0.00	11540	1723.726
	17.36	0.00	0.00	5163	980.8804
	17.65	0.00	0.00	25501	6907.077
	18.29	0.00	0.00	6576	1522.572
	18.68	0.00	0.00	5890	831.1512
	18.88	0.00	0.00	4053	843.8721
	19.35	0.00	0.00	5301	720.2053
	19.45	0.00	0.00	5211	1117.913
	20.26	0.00	0.00	4384	624.3665
	21.48	0.00	0.00	2947	508.1788
	23.32	0.00	0.00	4455	464.6524

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.99	17.77	9666556	9094382	572175

Surrogate Percent Recovery: 261.1924

Total GRO Area: 572174
Total GRO Concentration: 10.84 PPB

MDLGX1125D AAAA T 1134799999
Batch:
Analyst:
Raw File: Y:\Active\CP31\31348B.0012.RAW
Method: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31\8015B31348.MET
Date: 12/14/2011 5:48:49 PM
File: Y:\Active\CP31\31348B.0012.RAW

ASX73 1009

MDLGX1125D AAAA T 1134799999
12/14/2011 5:13:52 PM Batch:
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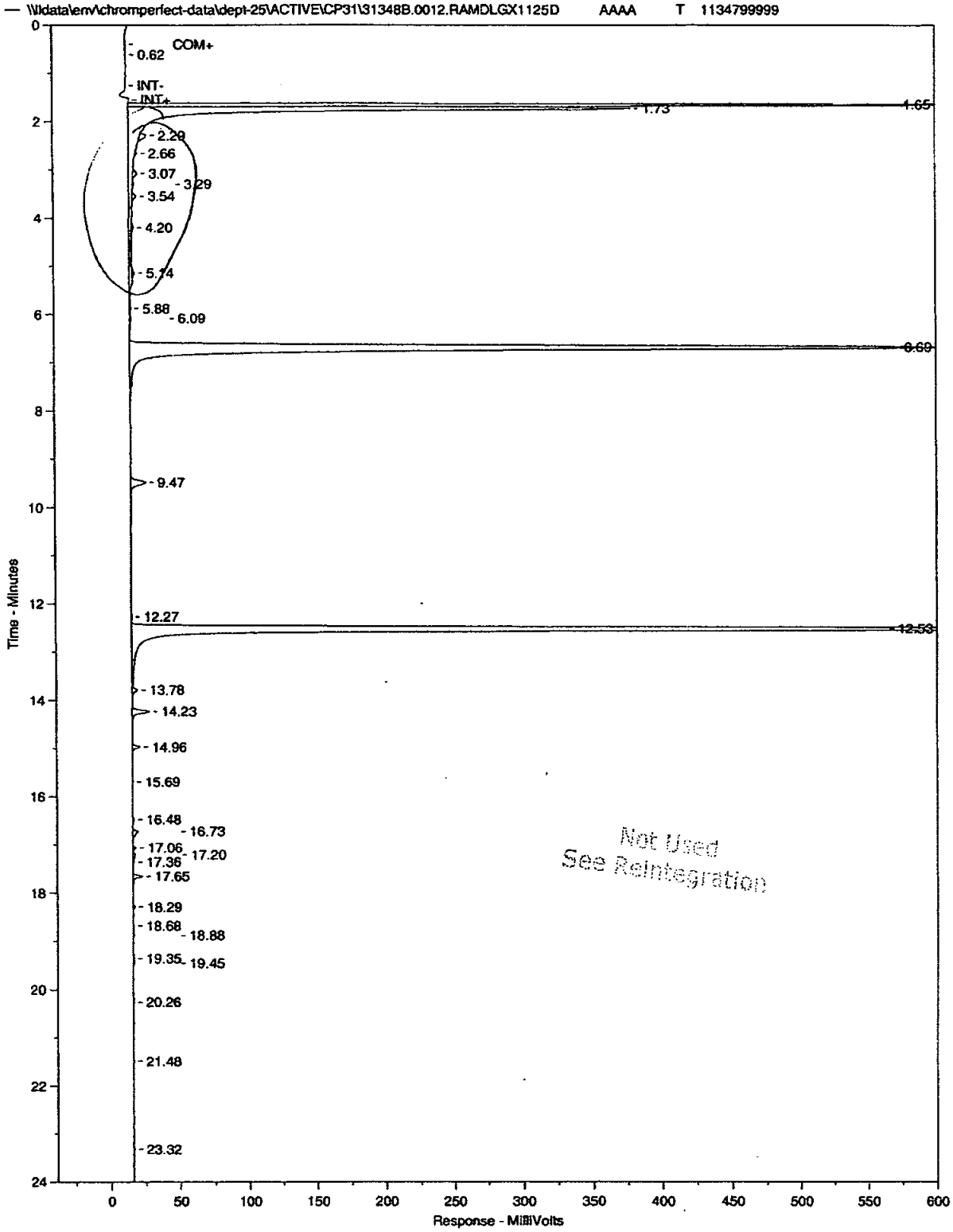

MDLGX1125D AAAA T 1134799999

ASX73 1889

Date Acquired: 12/14/2011 5:13:52 PM
Instrument: CP31--FID
Units: ug/kg **Vial Position: VI#**
Dilution Factor: 1
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31348B.0012.RAW
Method File: 8015B31348.MET **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 7
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	0.62	0.00	0.00	2203	236.9792
	1.65	0.00	0.00	2197652	772757.2
	1.73	0.00	0.00	2756992	363502.6
	2.29	0.00	0.00	31751	4803.985
	2.66	0.00	0.00	5197	1091.83
	3.07	0.00	0.00	20477	2813.015
	3.29	0.00	0.00	7430	987.6273
	3.54	0.00	0.00	19298	2757.027
	4.20	0.00	0.00	12023	1447.337
	5.14	0.00	0.00	12729	1696.283
	5.88	0.00	0.00	5094	534.8013
	6.09	0.00	0.00	8881	1005.651
SURR-TFT-F	6.69	6.71	78.36	4426931	601270
	9.47	0.00	0.00	79607	10662.85
	12.27	0.00	0.00	2040	291.1329
SURR-1C3FB	12.53	12.54	75.26	4667451	850003.8
	13.78	0.00	0.00	24790	3971.167
	14.23	0.00	0.00	69547	12343.77
	14.96	0.00	0.00	24448	5548.909
	15.69	0.00	0.00	2243	420.919
	16.48	0.00	0.00	6507	1230.216
	16.73	0.00	0.00	23553	4205.75
	17.06	0.00	0.00	7637	1939.672
	17.20	0.00	0.00	11540	1723.726
	17.36	0.00	0.00	5163	980.8804
	17.65	0.00	0.00	25501	6907.077
	18.29	0.00	0.00	6576	1522.572
	18.68	0.00	0.00	5890	831.1512
	18.88	0.00	0.00	4053	843.8721
	19.35	0.00	0.00	5301	720.2053
	19.45	0.00	0.00	5211	1117.913
	20.26	0.00	0.00	4384	624.3665
	21.48	0.00	0.00	2947	508.1788
	23.32	0.00	0.00	4455	464.6524

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.99	17.77	9462889	9094382	368508

Not Used
See Reintegration

Surrogate Percent Recovery: 261.1924

Total GRO Area: 368507
Total GRO Concentration: 6.98 PPB

MDLGX1125D AAAA T 1134799999
Batch:
Analyst:
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31348B.0012.RAW
Method: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31\8015B31348.MET
Date: 12/14/2011 5:37:57 PM
File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31348B.0012.RAW

ASX73 1010

ICVGX1125G BAICVGXBA CCAL 1134799999

12/14/2011 9:15:57 PM Batch:

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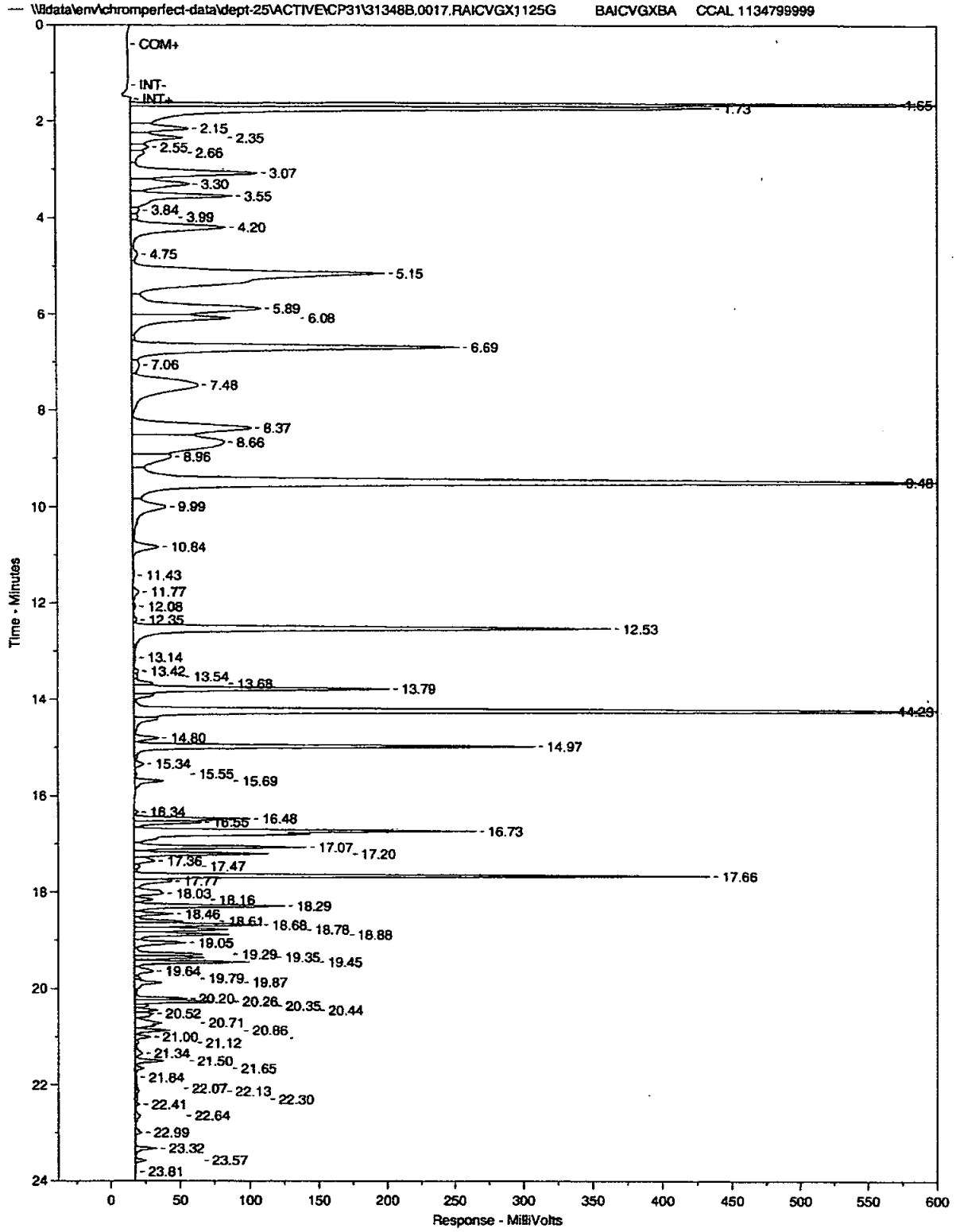

ICVGX1125G BAICVGXBA CCAL 1134799999

ASX73 1911

Date Acquired: 12/14/2011 9:15:57 PM
Instrument: CP31--FID
Units: ug/kg **Vial Position: VI#**
Dilution Factor: 25
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31348B.0017.RAW
Method File: 8015B31348.MET **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 7
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.65	0.00	0.00	2663197	972104.8
	1.73	0.00	0.00	2542586	419642.1
	2.15	0.00	0.00	305616	42056.64
	2.35	0.00	0.00	296484	37589.1
	2.55	0.00	0.00	88219	13121.76
	2.66	0.00	0.00	95644	10032.2
	3.07	0.00	0.00	740245	90806.2
	3.30	0.00	0.00	382042	42296.4
	3.55	0.00	0.00	555727	72889.81
	3.84	0.00	0.00	41803	6121.412
	3.99	0.00	0.00	35954	5157.29
	4.20	0.00	0.00	693779	68196.83
	4.75	0.00	0.00	60188	4860.06
	5.15	0.00	0.00	2605452	182761
	5.89	0.00	0.00	1069449	92877.45
	6.08	0.00	0.00	621618	71010.2
SURR-TFT-F	6.69	6.71	791.00	1787543	237731
	7.06	0.00	0.00	75377	5468.03
	7.48	0.00	0.00	918890	48034.48
	8.37	0.00	0.00	1055706	85548.53
	8.66	0.00	0.00	1235158	66566.7
	8.96	0.00	0.00	325109	28258.22
	9.48	0.00	0.00	4603529	598757
	9.99	0.00	0.00	367247	24140.6
	10.84	0.00	0.00	160847	18755.57
	11.43	0.00	0.00	14650	996.0466
	11.77	0.00	0.00	40057	4250.253
	12.08	0.00	0.00	15049	1900.793
	12.35	0.00	0.00	18267	2599.428
SURR-1C3FB	12.53	12.54	775.71	1924400	346128.8
	13.14	0.00	0.00	13068	1225.344
	13.42	0.00	0.00	21418	3606.326
	13.54	0.00	0.00	16344	2933.782
	13.68	0.00	0.00	62809	14151.62
	13.79	0.00	0.00	857923	184885.1
	14.23	0.00	0.00	3082331	662347.8
	14.80	0.00	0.00	87128	17755.67
	14.97	0.00	0.00	1176109	291342.4
	15.34	0.00	0.00	39792	6530.792
	15.55	0.00	0.00	8367	1959.953
	15.69	0.00	0.00	99747	20907.63
	16.34	0.00	0.00	13029	3185.222
	16.48	0.00	0.00	315587	83451.8
	16.55	0.00	0.00	194343	48600.46
	16.73	0.00	0.00	1376941	249107.5
	17.07	0.00	0.00	460289	124216.7
	17.20	0.00	0.00	354982	96622.48
	17.36	0.00	0.00	88410	15010.71
	17.47	0.00	0.00	21440	4648.739
	17.66	0.00	0.00	1403301	417932.8
	17.77	0.00	0.00	146234	27131.28
	18.03	0.00	0.00	147326	21560.12
	18.16	0.00	0.00	56811	13414.51

ASX73 1912

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	18.29	0.00	0.00	403136	108210.1
	18.46	0.00	0.00	104863	27995.46
	18.61	0.00	0.00	122346	34828.12
	18.68	0.00	0.00	324834	89776.77
	18.78	0.00	0.00	267711	67253.33
	18.88	0.00	0.00	267877	68444.27
	19.05	0.00	0.00	169081	37429.84
	19.29	0.00	0.00	171460	49191.11
	19.35	0.00	0.00	166713	50218.76
	19.45	0.00	0.00	283725	82791.22
	19.64	0.00	0.00	82845	13647.53
	19.79	0.00	0.00	17786	4767.792
	19.87	0.00	0.00	94342	19554.95
	20.20	0.00	0.00	118037	37725.88
	20.26	0.00	0.00	189488	56995.9
	20.35	0.00	0.00	31457	9782.395
	20.44	0.00	0.00	56831	16538.24
	20.52	0.00	0.00	73401	13665.07
	20.71	0.00	0.00	136829	19441.92
	20.86	0.00	0.00	91426	25182.87
	21.00	0.00	0.00	43870	11612.08
	21.12	0.00	0.00	13831	3014.692
	21.34	0.00	0.00	40700	5564.745
	21.50	0.00	0.00	85175	20951.8
	21.65	0.00	0.00	30044	6515.141
	21.84	0.00	0.00	4970	1351.372
	22.07	0.00	0.00	12052	2287.924
	22.13	0.00	0.00	12981	2895.135
	22.30	0.00	0.00	10128	1986.134
	22.41	0.00	0.00	13503	3539.388
	22.64	0.00	0.00	37205	3964.422
	22.99	0.00	0.00	24362	5100.65
	23.32	0.00	0.00	65191	16025.84
	23.57	0.00	0.00	32527	8147.618
	23.81	0.00	0.00	4021	865.9736

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.99	17.77	29041440	3711943	25329490

Surrogate Percent Recovery: 105.4664

Total GRO Area: 2.532949E+07
Total GRO Concentration: 11992.49 PPB

ICVGX1125G BAICVGXBA CCAL 1134799999
Batch:
Analyst:
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31348B.0017.RAW
Method: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31\8015B31348.MET
Date: 12/14/2011 9:40:05 PM
File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31348B.0017.RAW

ASX73 1013

SGCKX1225DM ZXSGCKXZX CCAL 1219999999
7/18/2012 5:00:21 PM Batch:
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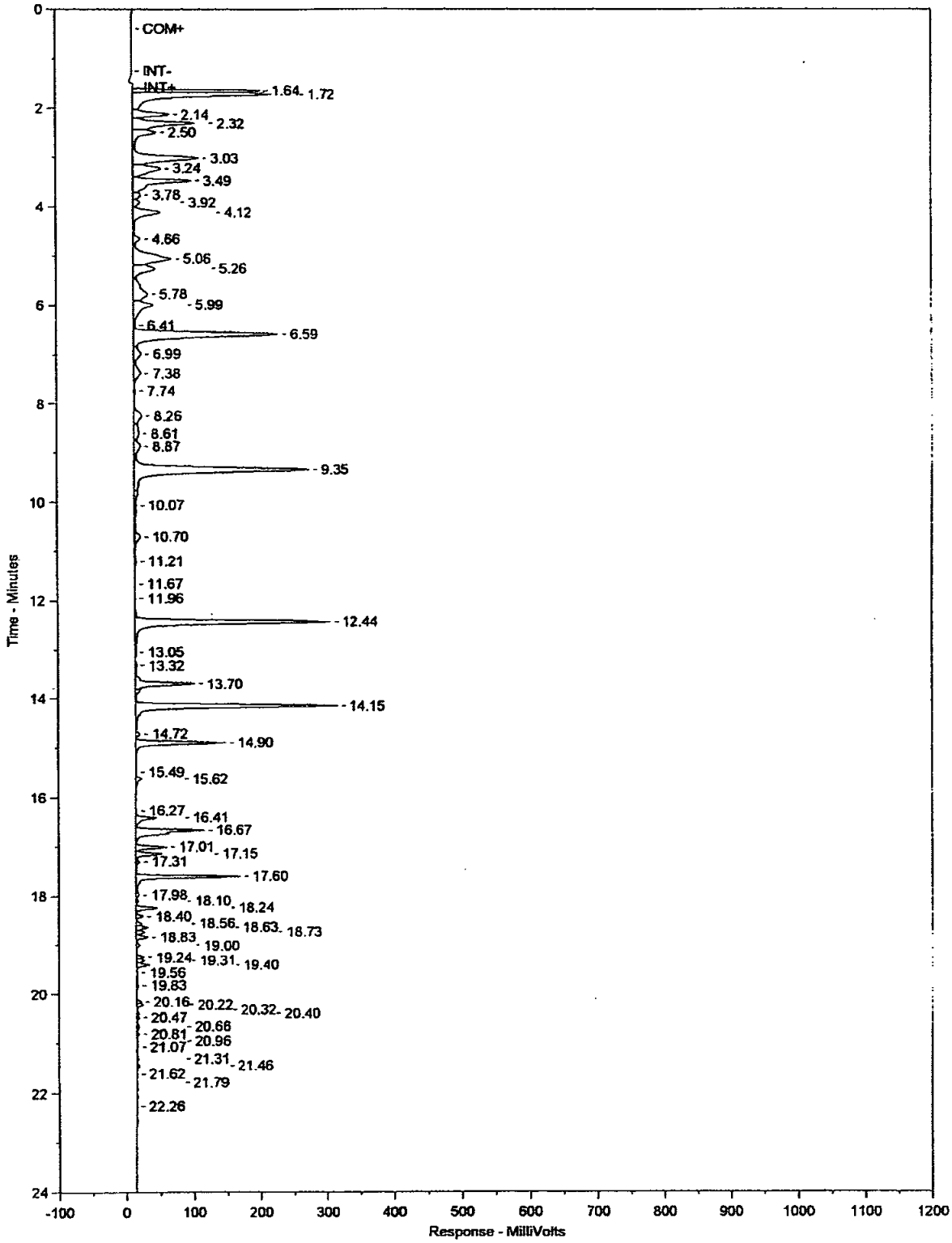

ASX73 1814

SGCKX1225DM ZXSGCKXZX CCAL 1219999999

Date Acquired: 7/18/2012 5:00:21 PM
Instrument: CP31--FID
Units: ug/kg Vial Position: V#
Dilution Factor: 1
Raw File: Y:\Active\CP31\31199B.0042.RAW
Method File: 8015B31348.met Column:
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 26
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.64	0.00	0.00	599056	189904.3
	1.72	0.00	0.00	1334160	206718.3
	2.14	0.00	0.00	342649	53895.06
	2.32	0.00	0.00	608731	90679.71
	2.50	0.00	0.00	264669	34446.17
	3.03	0.00	0.00	755366	97396.45
	3.24	0.00	0.00	366469	40919.08
	3.49	0.00	0.00	600187	86457.3
	3.78	0.00	0.00	76485	11281.93
	3.92	0.00	0.00	62451	9861.85
	4.12	0.00	0.00	342618	39602.07
	4.66	0.00	0.00	84071	9849.451
	5.06	0.00	0.00	609477	56234.96
	5.26	0.00	0.00	276145	31904.22
	5.78	0.00	0.00	333553	20775.21
	5.99	0.00	0.00	303889	28935.53
	6.41	0.00	0.00	13168	2503.677
SURR-TFT-F	6.59	6.61	28.53	1612032	215153.4
	6.99	0.00	0.00	142175	10898.65
	7.38	0.00	0.00	144155	10305.22
	7.74	0.00	0.00	27535	2108.032
	8.26	0.00	0.00	150067	11439.2
	8.61	0.00	0.00	114604	7079.512
	8.87	0.00	0.00	117912	9457.103
	9.35	0.00	0.00	2060927	261242
	10.07	0.00	0.00	18242	2378.293
	10.70	0.00	0.00	104742	8637.776
	11.21	0.00	0.00	37463	2150.684
	11.67	0.00	0.00	3978	600.4206
	11.96	0.00	0.00	8047	940.6206
SURR-1C3FB	12.44	12.48	27.23	1689131	291793.1
	13.05	0.00	0.00	14708	1428.045
	13.32	0.00	0.00	17021	1993.426
	13.70	0.00	0.00	456744	88264.52
	14.15	0.00	0.00	1484049	302289.8
	14.72	0.00	0.00	36253	7297.44
	14.90	0.00	0.00	575265	134119.8
	15.49	0.00	0.00	8659	1290.516
	15.62	0.00	0.00	41399	8890.783
	16.27	0.00	0.00	6362	1449.691
	16.41	0.00	0.00	142311	29701.75
	16.67	0.00	0.00	547845	102160.1
	17.01	0.00	0.00	165715	45343.45
	17.15	0.00	0.00	146099	37806.27
	17.31	0.00	0.00	28498	5239.647
	17.60	0.00	0.00	572538	156001.6
	17.98	0.00	0.00	27363	4519.208
	18.10	0.00	0.00	13871	2966.68
	18.24	0.00	0.00	113616	31828.9
	18.40	0.00	0.00	40372	10608.54

ASX73 1015

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	18.56	0.00	0.00	29811	8250.741
	18.63	0.00	0.00	68221	17500.91
	18.73	0.00	0.00	48531	12596.53
	18.83	0.00	0.00	67924	17305.65
	19.00	0.00	0.00	24715	5861.28
	19.24	0.00	0.00	41081	11055.46
	19.31	0.00	0.00	43784	12275.64
	19.40	0.00	0.00	71875	20043.21
	19.56	0.00	0.00	17484	2044.829
	19.83	0.00	0.00	16730	3370.688
	20.16	0.00	0.00	25879	7868.064
	20.22	0.00	0.00	35343	10766.73
	20.32	0.00	0.00	6814	1951.978
	20.40	0.00	0.00	11412	3068.173
	20.47	0.00	0.00	17087	3658.546
	20.66	0.00	0.00	23750	3636.729
	20.81	0.00	0.00	14292	3534.148
	20.96	0.00	0.00	7668	1638.166
	21.07	0.00	0.00	9087	2030.923
	21.31	0.00	0.00	20218	2381.827
	21.46	0.00	0.00	18625	4108.776
	21.62	0.00	0.00	7844	1163.974
	21.79	0.00	0.00	9422	877.3759
	22:26	0.00	0.00	887	284.5137

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.94	17.77	14298350	3301163	10997190

Surrogate Percent Recovery: 95.11115

Total GRO Area: 1.099719E+07
Total GRO Concentration: 208.27 PPB

SGCKX1225DM ZXSGCKXZX CCAL 1219999999
Batch:
Analyst:
Raw File: Y:\Active\CP31\31199B.0042.RAW
Method: \\Ldata\env\DEPT25\25 INSTRUMENTS\Methods\31\8015B31348.met
Date: 7/18/2012 5:26:30 PM
File: Y:\Active\CP31\31199B.0042.RAW

ASX73 1916

SGCKX1225DM ZZSGCKXZZ CCAL 1219999999 01637

7/19/2012 2:06:46 AM Batch:

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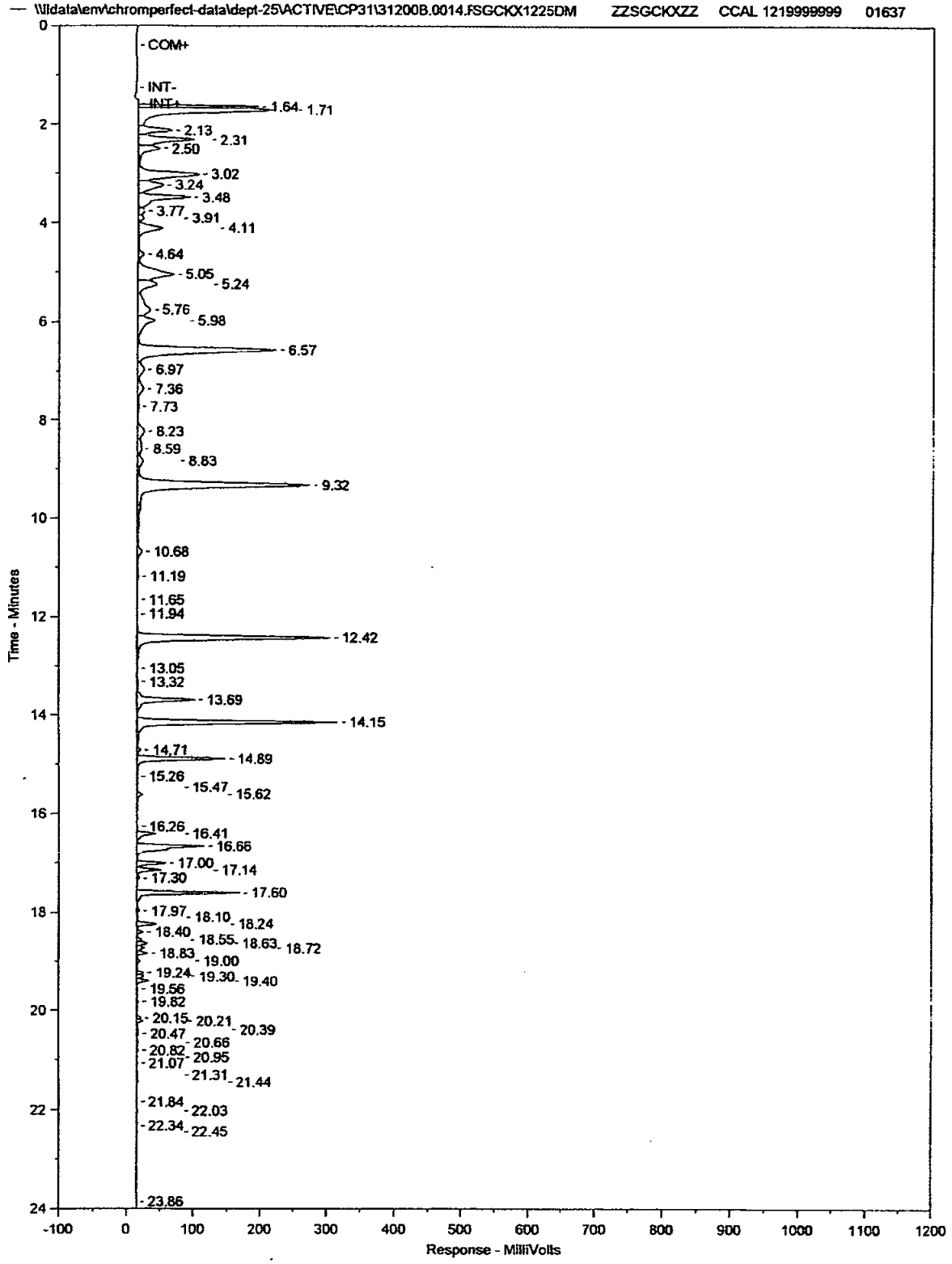

ASX73 1917

SGCKX1225DM ZZSGCKXZZ CCAL 1219999999 01637

Date Acquired: 7/19/2012 2:06:46 AM
Instrument: CP31--FID
Units: ug/kg **Vial Position: Vl#**
Dilution Factor: 1
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0014.RAW
Method File: 8015B31348.MET **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 26
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.64	0.00	0.00	524128	180726.4
	1.71	0.00	0.00	1395328	207181.8
	2.13	0.00	0.00	334853	51846.57
	2.31	0.00	0.00	589716	85248.83
	2.50	0.00	0.00	261718	33435.57
	3.02	0.00	0.00	724019	92331.8
	3.24	0.00	0.00	350788	38982.55
	3.48	0.00	0.00	568207	78548.08
	3.77	0.00	0.00	73575	10905.75
	3.91	0.00	0.00	60269	9154.297
	4.11	0.00	0.00	318695	37490.64
	4.64	0.00	0.00	85934	9179.829
	5.05	0.00	0.00	587524	54129.32
	5.24	0.00	0.00	259152	29159.69
	5.76	0.00	0.00	313313	19487.23
	5.98	0.00	0.00	282912	26178.42
SURR-TFT-F	6.57	6.61	28.15	1590526	208484.5
	6.97	0.00	0.00	131237	10216.32
	7.36	0.00	0.00	133111	9408.713
	7.73	0.00	0.00	27399	1952.764
	8.23	0.00	0.00	137840	10676.2
	8.59	0.00	0.00	108465	6508.828
	8.83	0.00	0.00	104889	8489.5
	9.32	0.00	0.00	2028868	258771
	10.68	0.00	0.00	93833	7738.69
	11.19	0.00	0.00	31823	2174.049
	11.65	0.00	0.00	4067	539.282
	11.94	0.00	0.00	8069	1025.179
SURR-1C3FB	12.42	12.48	27.09	1680122	290009.8
	13.05	0.00	0.00	14357	1323.134
	13.32	0.00	0.00	15007	1831.951
	13.69	0.00	0.00	488125	87681.74
	14.15	0.00	0.00	1475849	301276.5
	14.71	0.00	0.00	31555	6409.559
	14.89	0.00	0.00	573077	133185.4
	15.26	0.00	0.00	7811	1029.249
	15.47	0.00	0.00	9503	1172.781
	15.62	0.00	0.00	49745	8774.113
	16.26	0.00	0.00	5455	1281.716
	16.41	0.00	0.00	135940	29143.1
	16.66	0.00	0.00	539554	101116.3
	17.00	0.00	0.00	162067	44531.28
	17.14	0.00	0.00	142807	37233.5
	17.30	0.00	0.00	19678	4461.477
	17.60	0.00	0.00	562928	154840.8
	17.97	0.00	0.00	25333	4325.599
	18.10	0.00	0.00	11801	2703.749
	18.24	0.00	0.00	111062	31147.57
	18.40	0.00	0.00	38630	10305.51
	18.55	0.00	0.00	29735	7940.355

ASX73 1818

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	18.63	0.00	0.00	64636	16963.62
	18.72	0.00	0.00	46548	12084.14
	18.83	0.00	0.00	66070	17024.13
	19.00	0.00	0.00	24675	5759.203
	19.24	0.00	0.00	38181	10775.3
	19.30	0.00	0.00	42026	11757.5
	19.40	0.00	0.00	69556	19276.26
	19.56	0.00	0.00	17888	2042.877
	19.82	0.00	0.00	16267	3365.305
	20.15	0.00	0.00	24680	7359.016
	20.21	0.00	0.00	32529	9822.964
	20.39	0.00	0.00	10426	2904.014
	20.47	0.00	0.00	16066	3328.397
	20.66	0.00	0.00	19993	2990.364
	20.82	0.00	0.00	12042	2916.136
	20.95	0.00	0.00	6078	1274.622
	21.07	0.00	0.00	7548	1536.099
	21.31	0.00	0.00	18488	1618.787
	21.44	0.00	0.00	10834	2110.778
	21.84	0.00	0.00	4953	933.9096
	22.03	0.00	0.00	7917	1680.841
	22.34	0.00	0.00	4755	685.3279
	22.45	0.00	0.00	2544	601.0308
	23.86	0.00	0.00	934	161.1386

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.94	17.77	13938100	3270648	10667450

Surrogate Percent Recovery: 93.84228

Total GRO Area: 1.066745E+07
Total GRO Concentration: 202.02 PPB

SGCKX1225DM ZZSGCKXZZ CCAL 1219999999 01637
Batch:
Analyst:
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0014.RAW
Method: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31\8015B31348.MET
Date: 7/19/2012 2:30:50 AM
File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0014.RAW

ASX73 1019

Raw QC Data

ASX73 1020

Lancaster Laboratories-Range Data Summary

Sample Name: BLANKA BLKPV Sample ID: AA **Batchnumber:** 12200A31A
Sample Amount: 1. Total Volume: 25. ml Analyst: 2001 SDG: State:
Analyses: 01637

Injection Summary

Injected on : 7/18/2012 17:50:24
Instrument : CP31--05656F
Result file : 31200B.0001.RAW
Calibration files : 8015B31348.CAL
Method files : 8015B31348.met
Setting : 8015B31348

Surrogate Recoveries

SURR-TFT-F 82% (61-122) Conc.: 617.09484

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ SURR-TFT-F	6.60 (6.48 - 6.74)	1394546	617.0948				ppb
☐ SURR-1C3FB	12.45 (12.35 - 12.61)	1612349	649.9244				ppb
☐ GRO	2.94 - 17.77	3069192	29.4953	<1000	<200		ppb

Comments: _____

Reviewed by: LMK2638 Verified by: [illegible]
Date: 7/18/12 Date: 7/20/12

ASX73 1021

BLANKA AABLKPV BLK 12200A31A 01637

7/18/2012 5:50:24 PM Batch:

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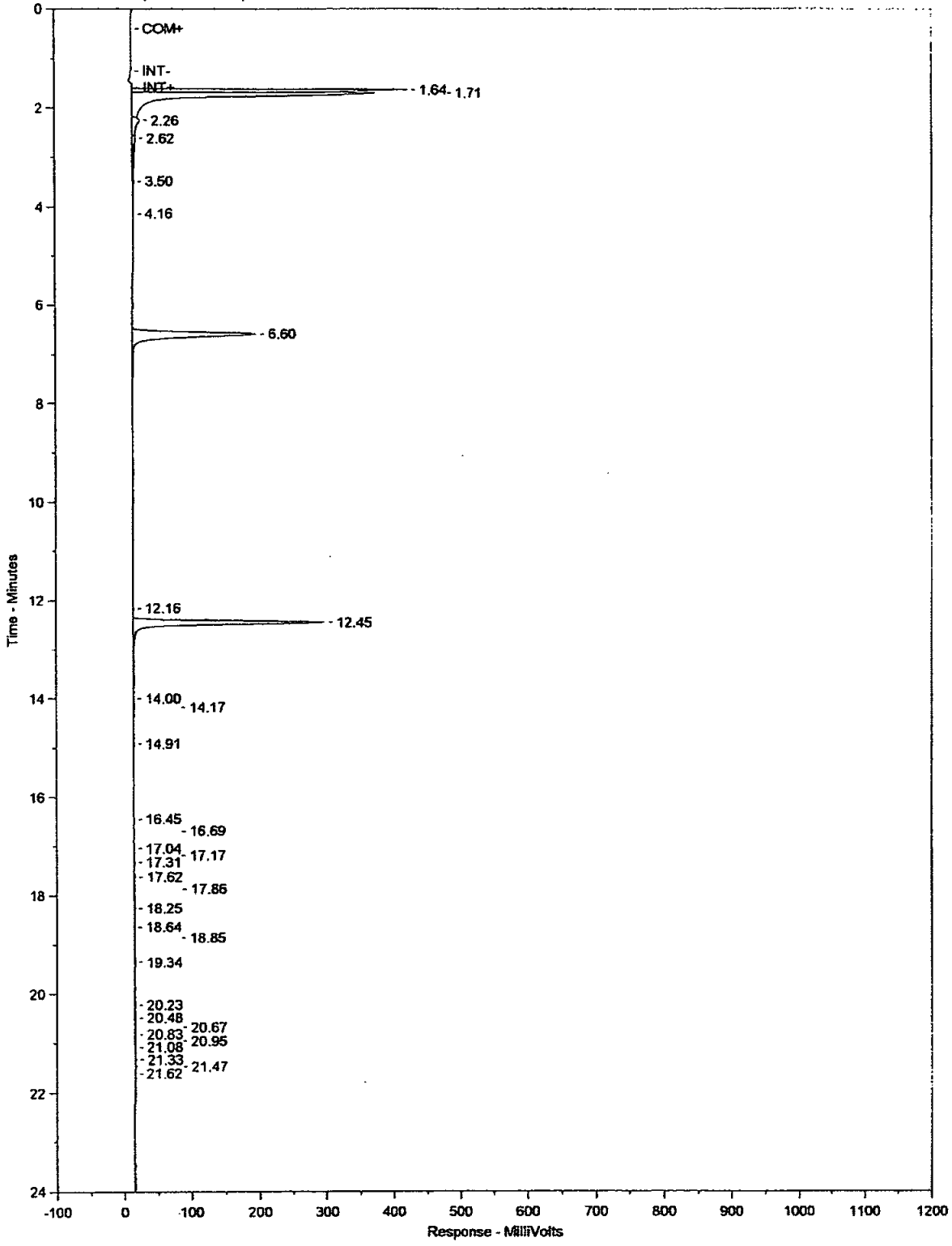

ASX73 1022

BLANKA AABLKPV BLK 12200A31A 01637

Date Acquired: 7/18/2012 5:50:24 PM
Instrument: CP31--FID
Units: ug/kg **Vial Position: VI#**
Dilution Factor: 25
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0001.RAW
Method File: 8015B31348.MET **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 26
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.64	0.00	0.00	1332680	408474.3
	1.71	0.00	0.00	2253026	359364.6
	2.26	0.00	0.00	145679	11255.36
	2.62	0.00	0.00	106600	4354.977
	3.50	0.00	0.00	17194	1688.715
	4.16	0.00	0.00	6237	603.3868
SURR-TFT-F	6.60	6.61	617.09	1394546	183682
	12.16	0.00	0.00	3236	400.4946
SURR-1C3FB	12.45	12.48	649.92	1612349	284434.8
	14.00	0.00	0.00	2853	449.5865
	14.17	0.00	0.00	9241	849.4446
	14.91	0.00	0.00	4217	576.2719
	16.45	0.00	0.00	2871	325.6734
	16.69	0.00	0.00	3203	546.7018
	17.04	0.00	0.00	1252	324.6853
	17.17	0.00	0.00	2743	468.5065
	17.31	0.00	0.00	1756	466.4427
	17.62	0.00	0.00	7496	1771.668
	17.86	0.00	0.00	1989	496.0179
	18.25	0.00	0.00	4187	871.6677
	18.64	0.00	0.00	2604	291.6054
	18.85	0.00	0.00	1708	445.7547
	19.34	0.00	0.00	2320	303.5829
	20.23	0.00	0.00	11326	1534.649
	20.48	0.00	0.00	5072	825.4591
	20.67	0.00	0.00	5525	1025.321
	20.83	0.00	0.00	4177	1039.527
	20.95	0.00	0.00	2902	587.962
	21.08	0.00	0.00	4402	751.9218
	21.33	0.00	0.00	7591	1356.947
	21.47	0.00	0.00	8853	2066.606
	21.62	0.00	0.00	2024	416.5741

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.94	17.77	3069192	3006895	62297

Surrogate Percent Recovery: 82.27932

Total GRO Area: 62297.25
Total GRO Concentration: 29.50 PPB

BLANKA AABLKPV BLK 12200A31A 01637
Batch:
Analyst:
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0001.RAW
Method: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31\8015B31348.MET
Date: 7/18/2012 6:14:27 PM
File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0001.RAW

ASX73 1023

Lancaster Laboratories-Range Data Summary

Sample Name: LCSA LCSH8 Sample ID: AA **Batchnumber:** 12200A31A
Sample Amount: 1. Total Volume: 25. ml Analyst: 2001 SDG: State:
Analyses: 01637

Injection Summary

Injected on : 7/18/2012 18:26:25
Instrument : CP31--05656F
Result file : 31200B.0002.RAW
Calibration files : 8015B31348.CAL
Method files : 8015B31348.met
Setting : 8015B31348

Surrogate Recoveries

SURR-TFT-F 81% (61-122) Conc.: 610.87567

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ SURR-TFT-F	6.59 (6.48 - 6.74)	1380491	610.8757				ppb
☐ SURR-1C3FB	12.44 (12.35 - 12.61)	1548362	624.1321				ppb
☐ GRO	2.94 - 17.77	19946451	8057.1168	1000	200		ppb

Comments: _____

Reviewed by: LMK2638 Verified by: KB/MB
Date: 7/18/12 Date: 7/20/12

ASX73 1024

LCSA AALCSH8 LCS 12200A31A 01637

7/18/2012 6:26:25 PM Batch:

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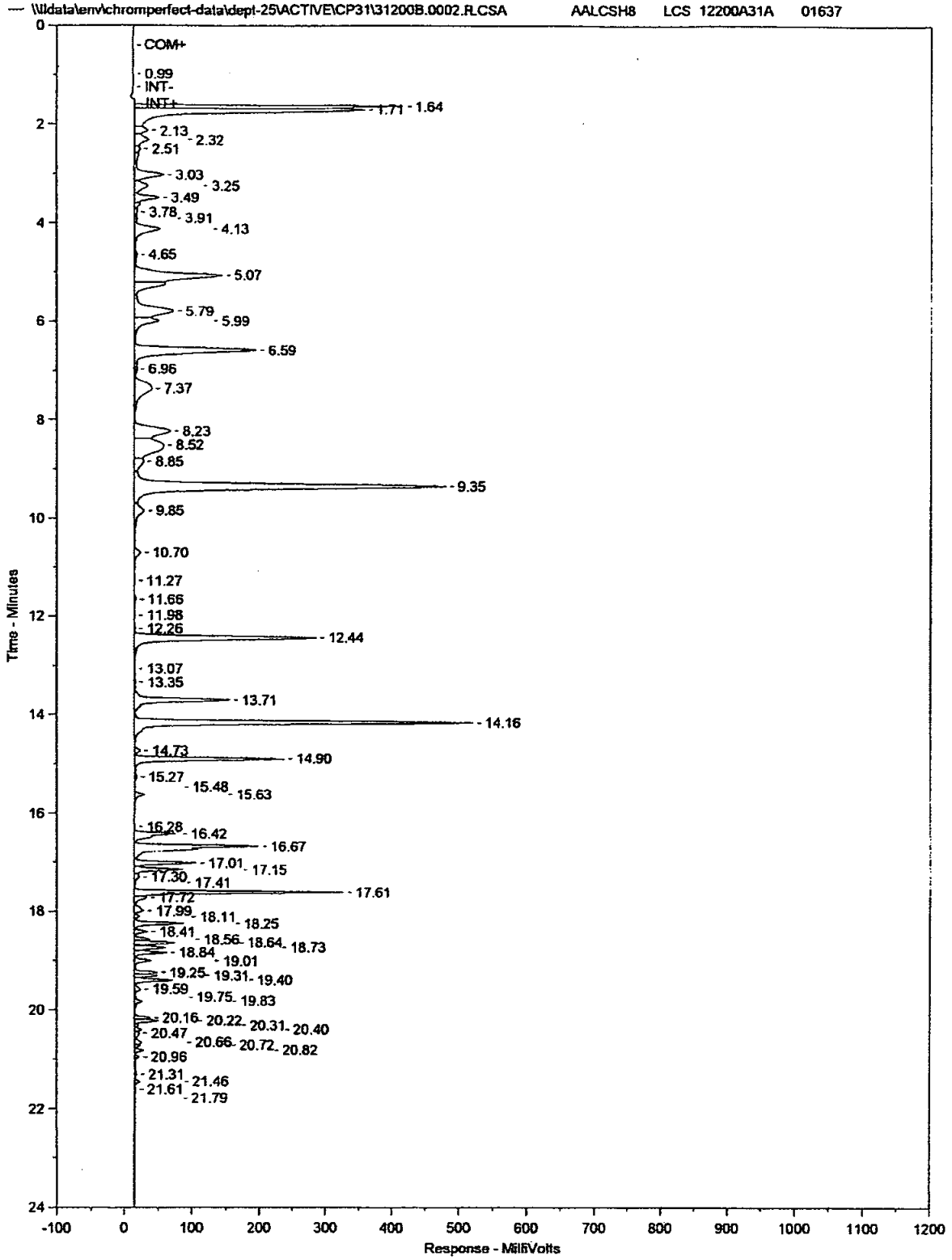


ASX73 1825

LCSA AALCSH8 LCS 12200A31A 01637

Date Acquired: 7/18/2012 6:26:25 PM
Instrument: CP31--FID
Units: ug/kg **Vial Position: Vl#**
Dilution Factor: 25
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0002.RAW
Method File: 8015B31348.MET **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 26
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	0.99	0.00	0.00	16731	588.8086
	1.64	0.00	0.00	1292079	402299
	1.71	0.00	0.00	2141517	343717.7
	2.13	0.00	0.00	159127	20677.86
	2.32	0.00	0.00	203826	22197.01
	2.51	0.00	0.00	57337	8539.795
	3.03	0.00	0.00	360954	43585.83
	3.25	0.00	0.00	186557	20948.29
	3.49	0.00	0.00	220548	36958.33
	3.78	0.00	0.00	29117	4206.671
	3.91	0.00	0.00	24016	3636.958
	4.13	0.00	0.00	357825	37839.7
	4.65	0.00	0.00	42764	3627.252
	5.07	0.00	0.00	1223327	129799
	5.79	0.00	0.00	674970	58633.33
	5.99	0.00	0.00	325375	36630.89
SURR-TFT-F	6.59	6.61	610.88	1380491	181518.5
	6.96	0.00	0.00	48475	3857.667
	7.37	0.00	0.00	489556	26406.82
	8.23	0.00	0.00	626840	53813.98
	8.52	0.00	0.00	794295	44015.71
	8.85	0.00	0.00	155895	14069.92
	9.35	0.00	0.00	3586695	465291.1
	9.85	0.00	0.00	212056	14441.03
	10.70	0.00	0.00	84604	9324.465
	11.27	0.00	0.00	6876	653.0246
	11.66	0.00	0.00	21091	2374.122
	11.98	0.00	0.00	6335	1002.604
	12.26	0.00	0.00	9344	1304.813
SURR-1C3FB	12.44	12.48	624.13	1548362	271990.3
	13.07	0.00	0.00	8556	844.4872
	13.35	0.00	0.00	12150	1926.942
	13.71	0.00	0.00	738185	141427.8
	14.16	0.00	0.00	2486933	506063.9
	14.73	0.00	0.00	47426	9459.019
	14.90	0.00	0.00	938639	223756.4
	15.27	0.00	0.00	21906	3442.283
	15.48	0.00	0.00	3617	886.3867
	15.63	0.00	0.00	70733	15132.21
	16.28	0.00	0.00	6844	1682.183
	16.42	0.00	0.00	329614	60940.73
	16.67	0.00	0.00	1026366	185366.9
	17.01	0.00	0.00	340235	91525.55
	17.15	0.00	0.00	273322	72593.62
	17.30	0.00	0.00	44556	7381.288
	17.41	0.00	0.00	13369	2377.756
	17.61	0.00	0.00	1071462	313450.1
	17.72	0.00	0.00	96171	18904.46
	17.99	0.00	0.00	86938	14608.24
	18.11	0.00	0.00	30545	7628.01

ASX73 1026

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	18.25	0.00	0.00	270492	73696.91
	18.41	0.00	0.00	73770	19924.38
	18.56	0.00	0.00	79143	23846.42
	18.64	0.00	0.00	215642	59996.88
	18.73	0.00	0.00	181506	46981.81
	18.84	0.00	0.00	183339	48534.77
	19.01	0.00	0.00	104092	25201.61
	19.25	0.00	0.00	116759	34150.14
	19.31	0.00	0.00	111152	34333.52
	19.40	0.00	0.00	196689	57132.51
	19.59	0.00	0.00	54271	9388.323
	19.75	0.00	0.00	11250	3047.165
	19.83	0.00	0.00	55474	12444.92
	20.16	0.00	0.00	71744	23676.76
	20.22	0.00	0.00	120689	35500.16
	20.31	0.00	0.00	19950	6014.349
	20.40	0.00	0.00	35889	10498.87
	20.47	0.00	0.00	42277	7746.328
	20.66	0.00	0.00	49279	10340.76
	20.72	0.00	0.00	25635	8520.675
	20.82	0.00	0.00	51413	13915.75
	20.96	0.00	0.00	26009	6643.286
	21.31	0.00	0.00	21705	2837.641
	21.46	0.00	0.00	31751	7328.208
	21.61	0.00	0.00	9511	1922.393
	21.79	0.00	0.00	4914	640.7116

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.94	17.77	19946450	2928854	17017590

Surrogate Percent Recovery: 81.45009

Total GRO Area: 1.701759E+07
Total GRO Concentration: 8057.14 PPB

LCSA AALCSH8 LCS 12200A31A 01637
Batch:
Analyst:
Raw File: \\ldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0002.RAW
Method: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31\8015B31348.MET
Date: 7/18/2012 6:50:28 PM
File: \\ldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0002.RAW

ASX73 1927

Lancaster Laboratories-Range Data Summary

Sample Name: LCSDA LCSDEV Sample ID: AA **Batchnumber:** 12200A31A
Sample Amount: 1. Total Volume: 25. ml Analyst: 2001 SDG: State:
Analyses: 01637

Injection Summary

Injected on : 7/18/2012 19:02:30
Instrument : CP31--05656F
Result file : 31200B.0003.RAW
Calibration files : 8015B31348.CAL
Method files : 8015B31348.MET
Setting : 8015B31348

Surrogate Recoveries

SURR-TFT-F 87% (61-122) Conc.: 648.82873

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ SURR-TFT-F	6.58 (6.48 - 6.74)	1466260	648.8287				ppb
☐ SURR-1C3FB	12.43 (12.35 - 12.61)	1613781	650.5017				ppb
☐ GRO	2.94 - 17.77	21675308	8804.0773	1000	200		ppb

Comments: _____

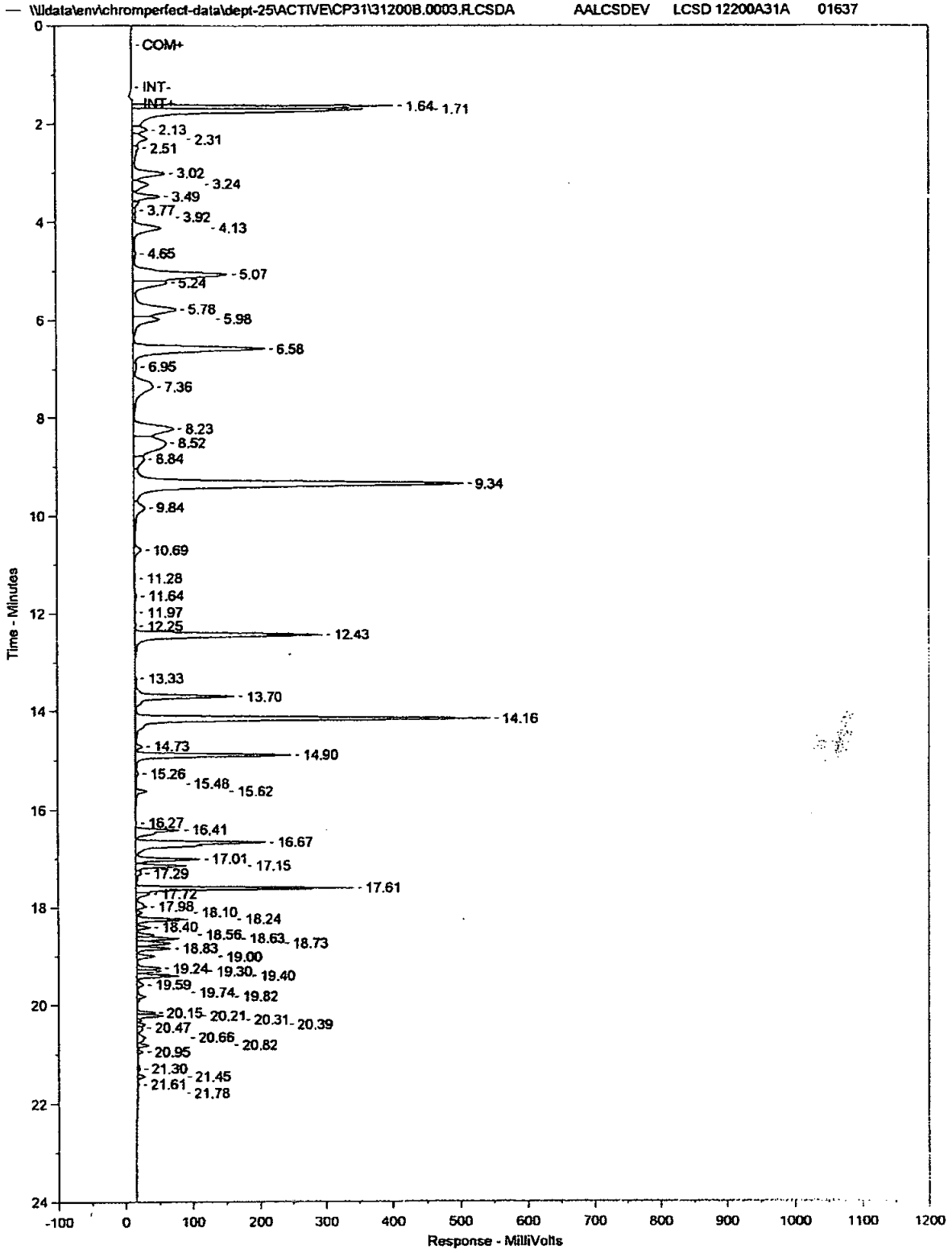
Reviewed by: LMK2638 Verified by: [illegible]
Date: 7/18/12 Date: 7/20/12

ASX73 1828

LCSDA AALCSDEV LCSD 12200A31A 01637

7/18/2012 7:02:30 PM Batch:

— \\ldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0003.RLCSDA AALCSDEV LCSD 12200A31A 01637



ASX73 1029

LCSDA AALCSDEV LCSD 12200A31A 01637

Date Acquired: 7/18/2012 7:02:30 PM
Instrument: CP31--FID
Units: ug/kg **Vial Position: Vl#**
Dilution Factor: 25
Raw File: \\ldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0003.RAW
Method File: 8015B31348.MET **Column:**
Analyst:

Threshold: 3

Peak Table using calibration : I:\Cal\31\8015B31348.CAL- Version 26
Number of Compounds: 3

Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	1.64	0.00	0.00	1283414	390893.2
	1.71	0.00	0.00	2127398	346184.3
	2.13	0.00	0.00	165694	22048.72
	2.31	0.00	0.00	198346	22294.21
	2.51	0.00	0.00	120472	8892.533
	3.02	0.00	0.00	387051	48536.06
	3.24	0.00	0.00	206181	23211.59
	3.49	0.00	0.00	233961	40943.12
	3.77	0.00	0.00	28778	4459.946
	3.92	0.00	0.00	25792	3832.6
	4.13	0.00	0.00	394818	41906.74
	4.65	0.00	0.00	44081	4022.389
	5.07	0.00	0.00	1299302	140894.5
	5.24	0.00	0.00	381827	50247.18
	5.78	0.00	0.00	738156	64245.94
	5.98	0.00	0.00	340399	39073.21
SURR-TFT-F	6.58	6.61	648.83	1466260	195545.8
	6.95	0.00	0.00	55940	4504.541
	7.36	0.00	0.00	541712	28850.77
	8.23	0.00	0.00	693261	59608.1
	8.52	0.00	0.00	857491	48353.61
	8.84	0.00	0.00	172682	15216.04
	9.34	0.00	0.00	3793261	491565
	9.84	0.00	0.00	239165	15606.39
	10.69	0.00	0.00	98862	10136.67
	11.28	0.00	0.00	13164	910.5787
	11.64	0.00	0.00	27938	2805.589
	11.97	0.00	0.00	10498	1347.685
	12.25	0.00	0.00	15153	1896.778
SURR-1C3FB	12.43	12.48	650.50	1613781	280899
	13.33	0.00	0.00	18788	2582.318
	13.70	0.00	0.00	793393	149122.3
	14.16	0.00	0.00	2637847	531472.8
	14.73	0.00	0.00	55596	10684.8
	14.90	0.00	0.00	990211	233526.8
	15.26	0.00	0.00	31222	4227.28
	15.48	0.00	0.00	7197	1390.559
	15.62	0.00	0.00	90058	16851.96
	16.27	0.00	0.00	8316	1966.142
	16.41	0.00	0.00	358151	64817.18
	16.67	0.00	0.00	1084664	194856.8
	17.01	0.00	0.00	359392	96049.64
	17.15	0.00	0.00	288470	76161.4
	17.29	0.00	0.00	47699	8102.114
	17.61	0.00	0.00	1120674	327235.6
	17.72	0.00	0.00	104119	20616.04
	17.98	0.00	0.00	96559	15651.98
	18.10	0.00	0.00	35966	8798.08
	18.24	0.00	0.00	288090	77964.7
	18.40	0.00	0.00	78242	21059.56

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Component Name	Ret. Time	Exp. Ret Time	Amount ug/kg	Peak Area (A)*	Peak Height (H)
	18.56	0.00	0.00	86796	26342.42
	18.63	0.00	0.00	233516	64431.18
	18.73	0.00	0.00	199757	50952.26
	18.83	0.00	0.00	196055	51365.21
	19.00	0.00	0.00	112842	27067.06
	19.24	0.00	0.00	125989	36300.56
	19.30	0.00	0.00	123034	37064.06
	19.40	0.00	0.00	217531	63498.32
	19.59	0.00	0.00	59377	10263.52
	19.74	0.00	0.00	12916	3474.359
	19.82	0.00	0.00	62504	13423.87
	20.15	0.00	0.00	83501	27479.77
	20.21	0.00	0.00	136638	39867.91
	20.31	0.00	0.00	21353	6465.44
	20.39	0.00	0.00	43177	12628.73
	20.47	0.00	0.00	48672	9189.719
	20.66	0.00	0.00	90668	12934.35
	20.82	0.00	0.00	64898	17356
	20.95	0.00	0.00	42689	8506.473
	21.30	0.00	0.00	31372	3950.777
	21.45	0.00	0.00	45897	11227.6
	21.61	0.00	0.00	10980	2627.022
	21.78	0.00	0.00	2681	993.9934

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.94	17.77	21675310	3080041	18595270

Surrogate Percent Recovery: 86.5105

Total GRO Area: 1.859527E+07
Total GRO Concentration: 8804.11 PPB

LCSDA AALCSDEV LCSD 12200A31A 01637
Batch:
Analyst:
Raw File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0003.RAW
Method: \\LLDATA\ENV\DEPT25\25 INSTRUMENTS\METHODS\31\8015B31348.MET
Date: 7/18/2012 7:26:34 PM
File: \\lldata\env\chromperfect-data\dept-25\ACTIVE\CP31\31200B.0003.RAW

ASX73 1931

Lancaster Laboratories-Range Data Summary

Sample Name: BLANKA BLKQ5 Sample ID: AA **Batchnumber:** 12201A20A
Sample Amount: 1. Total Volume: 1. ml Analyst: 2001 SDG: State:
Analyses: 01635

Injection Summary

Injected on : 7/19/2012 12:45:41
Instrument : CP20--11002F
Result file : 20201.0003.RAW
Calibration files : [PT1]8015B20266.cal
Method files : [PT1]8015B20266.met
Setting : [PT1]8015B20266

Surrogate Recoveries

SURR-TFT-F 89.6% (63-135) Conc.: 26.891327

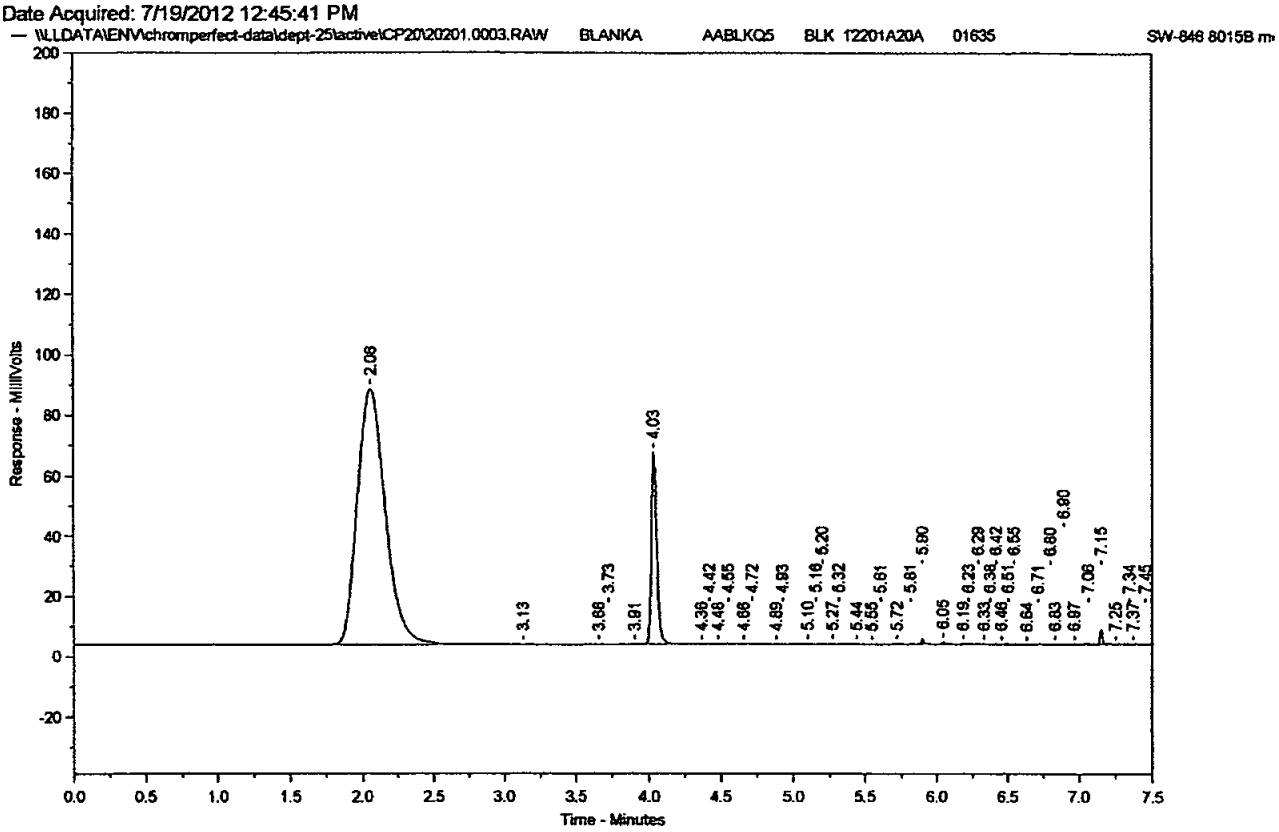
Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ SURR-TFT-F	4.03 (3.95 - 4.05)	162231	26.8913				ppb
☐ SURR-1C3FB	7.15 - 7.25	0	0.0000				ppb
☐ GRO	2.81 - 6.13	170839	1.4831	<50	<20		ppb

Comments:

Reviewed by: MDDDDDI Verified by: [illegible]2078
Date: 71912 Date: 072812

ASX73 1832

BLANKA AABLKQ5 BLK 12201A20A 01635 SW-846 8015B modified
CP20 11002F 20201.0003.RAW
Date Acquired: 7/19/2012 12:45:41 PM



BLANKA AABLKQ5 BLK 12201A20A 01635 SW-846 8015B modified
Date Acquired: 7/19/2012 12:45:41 PM **Instrument: CP20 11002F**
Raw File: 20201.0003.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.MET**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 9
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)
SURR-TFT-F	4.03	4.00	26.89	162231	63961.77

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.81	6.13	170839	162231	8608

Surrogate Percent Recovery: 89.63776

Total GRO Area: 8607.86
Total GRO Concentration: 1.48 ug/L

File: \\LLDATA\ENV\chromperfect-data\dept-25\active\CP20\20201.0003.RAW

ASX73 1033

ASX73 1034

Lancaster Laboratories-Range Data Summary

Sample Name: LCSA LCSHL **Sample ID:** AA **Batchnumber:** 12201A20A
Sample Amount: 1. Total Volume: 1. ml Analyst: 2001 SDG: State:
Analyses: 01635

Injection Summary

Injected on : 7/19/2012 13:07:38
Instrument : CP20--11002F
Result file : 20201.0004.RAW
Calibration files : [PT1]8015B20266.cal
Method files : [PT1]8015B20266.met
Setting : [PT1]8015B20266

Surrogate Recoveries

SURR-TFT-F 107.9% (63-135) Conc.: 32.357933

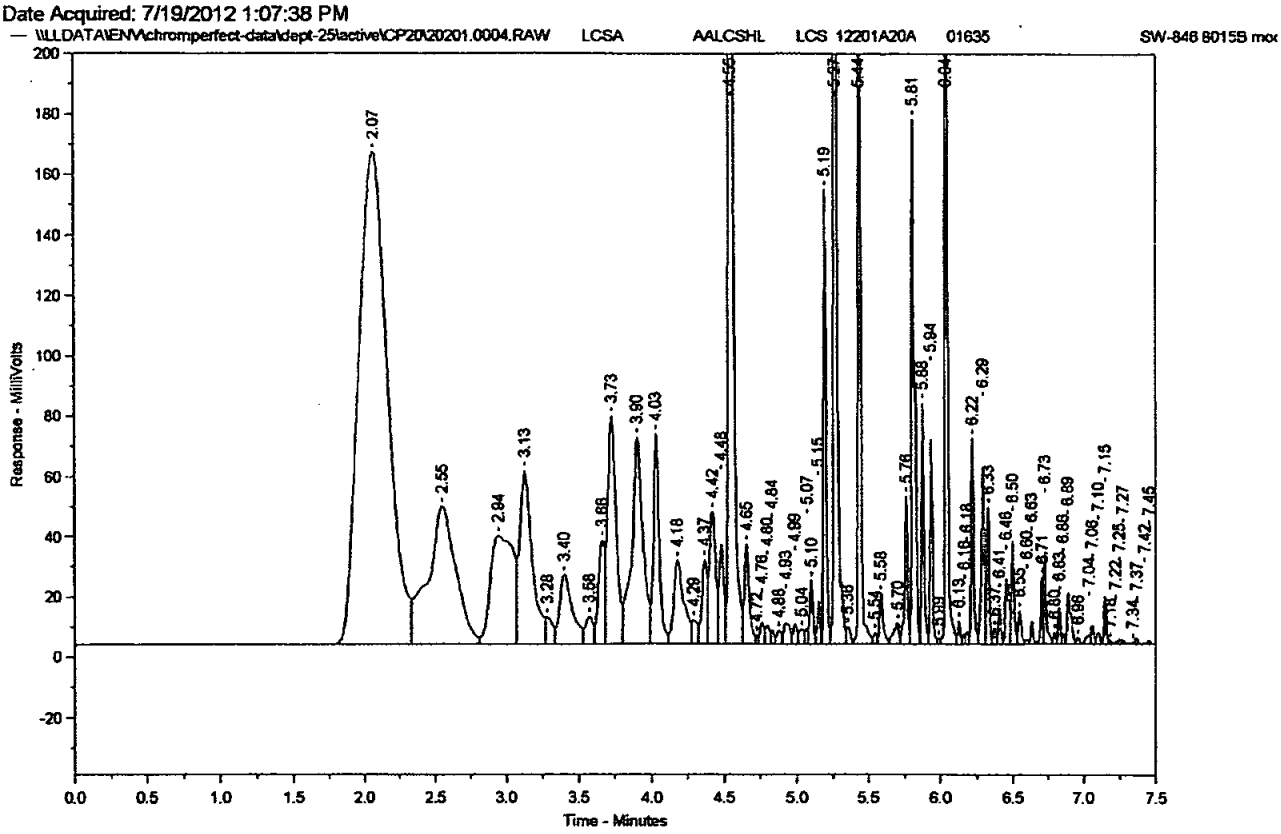
Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ SURR-TFT-F	4.03 (3.95 - 4.05)	195210	32.3579				ppb
☐ SURR-1C3FB	7.15 - 7.25	0	0.0000				ppb
☐ GRO	2.81 - 6.13	5744909	956.1852	50	20		ppb

Comments:

Reviewed by: MD 2001 Verified by: 0102078
Date: 7-19-12 Date: 072512

ASX73 1035

LCSA AALCSHL LCS 12201A20A 01635 SW-846 8015B modified
CP20 11002F 20201.0004.RAW
Date Acquired: 7/19/2012 1:07:38 PM



LCSA AALCSHL LCS 12201A20A 01635 SW-846 8015B modified
Date Acquired: 7/19/2012 1:07:38 PM **Instrument: CP20 11002F**
Raw File: 20201.0004.RAW **Units: ug/L**
Analyst: **Method File: [PT1]8015B20266.MET**
Dilution Factor: 1 **Column: 30 M DB-VRX x 0.25mm x 1.40 um**

Threshold: 1

Peak Table using calibration : [PT1]8015B20266.cal- Version 9
Number of Compounds: 2

Component Name	Ret. Time	Exp. Ret Time	Amount ug/L	Peak Area (A)*	Peak Height (H)
SURR-TFT-F	4.03	4.00	32.36	195211	69719.23

RT Start	RT Stop	Unadj GRO	Total Surr.	Adj. GRO
2.81	6.13	5744911	195211	5549701

Surrogate Percent Recovery: 107.8598

Total GRO Area: 5549701.00
Total GRO Concentration: 956.11 ug/L

File: \\LLDATA\ENV\chromperfect-data\dept-25\active\CP20\20201.0004.RAW

ASX73 1036

Preparation Logs

Batchlog Summary 12200A31A

QC	ID	Sample Code	Amt	SS/IS S	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	SW	DF	PH	BC	Comments
BLANKA	AA	BLKPV	1.00	SS1219525A	1.0000			25		25.00			
LCSA	AA	LCSH8	1.00	SS1219525A	1.0000	MS1219725A	0.005500	25		25.00			
LCSDA	AA	LCSDEV	1.00	SS1219525A	1.0000	MS1219725A	0.005500	25		25.00			

Sample#	ID	Sample Code	Amt	SS/IS Std.	Amt (mL)	FV (mL)	SW	DF	PH	BC	HS	Due Date	Hold Date	P	Analyses	Comments
6718767	AA	134-3	1.00	SS1218425C	1.0484	25	9.54	26.21		037A	☐	7/25	7/26	P	01637	
6718768	AA	134-2	1.00	SS1218425C	1.0092	25	9.91	25.23		037A	☐	7/25	7/26	P	01637	
6719561	AA	CN315	1.00	SS1218425C	1.0100	25	9.90	25.25		037A	☐	7/25	7/24	P	01637	
6719562	AA	CN406	1.00	SS1218425C	1.0236	25	9.77	25.59		037A	☐	7/25	7/25	P	01637	
6719563	AA	CN408	1.00	SS1218425C	1.0192	25	9.81	25.48		037A	☐	7/25	7/25	P	01637	
6719564	AA	CN504	1.00	SS1218425C	0.9960	25	10.04	24.90		037A	☐	7/25	7/26	P	01637	
6719565	AA	CN506	1.00	SS1218425C	1.0484	25	9.54	26.21		037A	☐	7/25	7/26	P	01637	
6720433	AA	RL-01	1.00	SS1218425C	0.9156	25	10.92	22.89		037A	☐	7/26	7/27	S	01637	
6721497	AA	49-0C	1.00	SS1219525A	1.0060	250	9.94	251.51		037A	☐	7/26	7/27	N	01637	
6721503	AA	32-0C	1.00	SS1219525A	1.0072	25	9.93	25.18		037A	☐	7/26	7/27	N	01637	
6721507	AA	SB464	1.00	SS1219525A	0.9192	25	10.88	22.98		037A	☐	7/26	7/27	P	01637	
6722044	AA	134RL	1.00	SS1219525A	0.9980	250	10.02	249.50		037A	☐	7/27	7/30	P	01637	
6722045	AA	34-03	1.00	SS1219525A	1.0235	500	9.77	511.77		037A	☐	7/27	7/28	P	01637	
6722046	AA	34-04	1.00	SS1219525A	0.9804	500	10.20	490.20		037A	☐	7/27	7/30	P	01637	
6722686	AA	23140	1.00	SS1219525A	1.0417	250	9.60	260.42		037A	☐	7/27	7/30	S	01637	

Spike Solutions:

MS1219725A	Soils Gro Spike
SS1218425C	Soils TFT for MeOH Extraction
SS1219525A	Soils TFT for MeOH Extraction

Analyst: MD0001 Verifier: KLB/28

Date: 7/19/12 Date: 7/20/12 Comments

ASX73 1038

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VOA Prep Summary by SDG: ASX73

25 - Volatiles by GC

Sample Number	Bottle Code	Prep Analysis#	Vial ID	Used for Analysis?	Collected	Prepared	Initial Weight	Final Weight	Net soil weight	Weight requirement	Meets require-ments?	Preserv. lot #	Preservative (volume)	Final Extraction Vol (mL)	Problem Codes
6721497	037A	01150	12426736	Y	07/13/12 10:25	07/17/12 08:32	0.00 g	9.94 g	9.94 g	9.00 g - 11.00 g	Y	SS1219525 A	MeOH w/surrogate (10 mL)	10.000	
6721503	037A	01150	12426739	Y	07/13/12 12:25	07/17/12 08:29	0.00 g	9.93 g	9.93 g	9.00 g - 11.00 g	Y	SS1219525 A	MeOH w/surrogate (10 mL)	10.000	

Final Extraction Vol (mL) = Preservative Vol + Added MeOH (if applicable)

KEY to problem codes:

A = wt. does not meet requirements B = vial leaked C# where # = volume of MeOH added in mL due to sample not covered/matrix (lot #)
D = sampler not full E = effervescence observed F = pH >= 2 G = headspace in container

Polychlorinated Biphenyls (PCBs) Data

ASX73 1040

Case Narrative/Conformance Summary

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

7 PCBs in Solids

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
6721494	SB-49(0-2) PCBs		X	200	
6721495	SB-49(2-4)		X	200	
6721496	SB-49(4-5.8)		X	25	
6721499	SB-32(0.0-2.0) PCBs		X	100	
6721500	SB-32(2.0-4.0)		X	10	
6721501	SB-32(4.0-5.4)		X	1	
6721504	EB-07132012	X		1	Equipment Blank

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): 6721494-6721496, 6721499-6721501: Analysis: 10736)
For dual column analyses in which the calibration (initial and/or 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.

(Sample number(s): 6721504: Analysis: 10227)
For dual column analyses in which the calibration (initial and/or 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.

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

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.

Surrogate

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

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

Narrative Reviewed and Approved 8-2-12 by
(Date)

Michelle S. Tuel
Michelle S. Tuel
Specialist

Quality Control and Calibration Summary Forms

ASX73 1044

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Quality Control Reference List
Pesticide Residue Analysis

CLIENT: Stantec
SDG: ASX73

Fraction: Polychlorinated Biphenyls (PCBs)

Analysis	Batch Number	Sample Number	Analysis Date
7 PCBs in Solids	121990024A	PBLK24199	07/20/2012 04:13:00
		LCS24199	07/20/2012 04:28:00
		6721494 UNSPK	07/20/2012 04:42:00
		6721494 MS	07/20/2012 04:57:00
		6721494 MSD	07/20/2012 05:12:00
		6721495	07/20/2012 05:27:00
		6721496	07/24/2012 23:56:00
		6721499	07/26/2012 20:40:00
		6721500	07/20/2012 06:11:00
		6721501	07/20/2012 06:26:00
PCBs in Water	121990013A	PBLK13199	07/20/2012 02:45:00
		LCS13199	07/20/2012 02:59:00
		LCSD13199	07/20/2012 03:14:00
		6721504	07/20/2012 03:29:00

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Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: ASX73
Matrix: LIQUID

Fraction: Polychlorinated Biphenyls (PCBs)

121990013A / PBLK13199 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
PCB-1016	07/20/12	N.D.	ug/l	0.10	0.50
PCB-1221	07/20/12	N.D.	ug/l	0.10	0.50
PCB-1232	07/20/12	N.D.	ug/l	0.20	0.50
PCB-1242	07/20/12	N.D.	ug/l	0.10	0.50
PCB-1248	07/20/12	N.D.	ug/l	0.10	0.50
PCB-1254	07/20/12	N.D.	ug/l	0.10	0.50
PCB-1260	07/20/12	N.D.	ug/l	0.15	0.50

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Quality Control Summary
Method Blank
Pesticide Residue Analysis
SDG: ASX73
Matrix: SOLID

Fraction: Polychlorinated Biphenyls (PCBs)

121990024A / PBLK24199 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
PCB-1016	07/20/12	N.D.	ug/kg	3.6	17
PCB-1221	07/20/12	N.D.	ug/kg	4.6	17
PCB-1232	07/20/12	N.D.	ug/kg	8.0	17
PCB-1242	07/20/12	N.D.	ug/kg	3.3	17
PCB-1248	07/20/12	N.D.	ug/kg	3.3	17
PCB-1254	07/20/12	N.D.	ug/kg	3.3	17
PCB-1260	07/20/12	N.D.	ug/kg	4.9	17

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Quality Control Summary
Surrogates
Pesticide Residue Analysis
SDG: ASX73
Matrix: LIQUID

Fraction: Polychlorinated Biphenyls (PCBs)

121990013A	Tetrachloro-m-xylene		Decachlorobiphenyl	
	Spike Added	0.309 ug/l	Spike Added	0.3 ug/l
Sample	% Recovery	Limits	% Recovery	Limits
PBLK13199	99	55 - 132	95	36 - 153
LCS13199	101	55 - 132	98	36 - 153
LCSD13199	107	55 - 132	101	36 - 153
6721504	110	55 - 132	85	36 - 153

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Quality Control Summary
Surrogates
Pesticide Residue Analysis
SDG: ASX73
Matrix: SOLID

Fraction: Polychlorinated Biphenyls (PCBs)

121990024A	Tetrachloro-m-xylene		Decachlorobiphenyl	
	Spike Added	10.3 ug/kg	Spike Added	10 ug/kg
Sample	% Recovery	Limits	% Recovery	Limits
PBLK24199	101	33 - 143	95	24 - 164
LCS24199	102	33 - 143	99	24 - 164
6721494 MS	136	33 - 143	123	24 - 164
6721494 MSD	79	33 - 143	143	24 - 164
6721494	117	33 - 143	124	24 - 164
6721495	192 *	33 - 143	125	24 - 164
6721496	153 *	33 - 143	157	24 - 164
6721499	101	33 - 143	139	24 - 164
6721500	983 *	33 - 143	943 *	24 - 164
6721501	95	33 - 143	91	24 - 164

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: ASX73
Matrix: SOLID

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

UNSPK: 6721494 MS: 6721494 MSD: 6721494 **Analyte**	Batch: **121990024A** (Sample number(s): 6721494-6721496, 6721499-6721501)								
	Spike Added ug/kg	**Unspiked Conc ug/kg**	**MS Conc ug/kg**	**MSD Conc ug/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
PCB-1016	166.67	N.D.	N.D.	N.D.	0 *	0 *	29-146	0	50
PCB-1260	166.67	8039.7	10755.	8963.19	1629 *	554 *	39-149	18	50

Results are being reported on an as received basis.

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

SDG: ASX73
Matrix: LIQUID

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

LCS: LCS13199 LCSD: LCSD13199	Batch: 121990013A (Sample number(s): 6721504)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
PCB-1016	5	5.8	6	116	120	51-128	3	30
PCB-1260	5	5.9	6.1	118	122	56-135	3	30

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

SDG: ASX73
Matrix: SOLID

Pesticide Residue Analysis

Fraction: Polychlorinated Biphenyls (PCBs)

LCS: LCS24199	Batch: **121990024A** (Sample number(s): 6721494-6721496, 6721499-6721501)							
Analyte	**Spike Added ug/kg**	**LCS Conc ug/kg**	**LCSD Conc ug/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
PCB-1016	166.67	190.96		115		64-121		
PCB-1260	166.67	193.4		116		72-123		

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088A
Calibration File: 1P7190
GC Column (1) : RTXCLPI
ID: 0.32 (mm)
Update File: 1P7190.031.RAW
Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	RT OF STANDARDS					MIDPOINT	RT WINDOW	
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	RT	FROM	TO
Tetrachloro-m-xylene	3.86	3.86	3.86	3.86	3.86	3.85	3.82	3.88
Decachlorobiphenyl	9.26	9.27	9.27	9.26	9.26	9.26	9.23	9.29

FORM VI-1

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088A
Calibration File: 1P7190
GC Column (1): RTXCLPI
ID: 0.32 (mm)
Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	1.34E+04	1.10E+04	1.02E+04	9.63E+03	9.11E+03	1.07E+04	15.9
Decachlorobiphenyl	8.08E+03	6.22E+03	5.55E+03	5.29E+03	4.95E+03	6.02E+03	20.7

Average % RSD: 18.3

FORM VI-2

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Calibration File: 1P7190

GC Column (1): RTXCLPI ID: 0.32 (mm) Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	4.20	4.17	4.23	261	215	1	50	13034	16.9
					236		2	100	23613	
					217		3	200	43406	
					189		4	500	94548	
					170		5	1000	169793	
	2	4.67	4.64	4.70	292	241	1	50	14609	16.4
					264		2	100	26369	
					243		3	200	48543	
					213		4	500	106695	
					192		5	1000	192398	
	3	4.92	4.89	4.95	528	443	1	50	26385	14.9
					487		2	100	48661	
					442		3	200	88458	
					396		4	500	197894	
					365		5	1000	364659	
	4	4.98	4.95	5.01	222	176	1	50	11097	19.5
					196		2	100	19607	
					175		3	200	34958	
					149		4	500	74592	
					137		5	1000	137489	
	5	5.06	5.03	5.09	242	204	1	50	12123	14.3
					220		2	100	22038	
					206		3	200	41202	
					186		4	500	93153	
					167		5	1000	167216	
	6	5.32	5.29	5.35	214	179	1	50	10710	15.6
					195		2	100	19493	
					181		3	200	36173	
					160		4	500	80144	
					144		5	1000	143546	
Aroclor-1221	1	4.06	4.03	4.09	111	111	1	200	22124	
	2	4.14	4.11	4.17	92	92	1	200	18470	
	3	4.21	4.18	4.24	267	267	1	200	53384	
Aroclor-1232	1	4.21	4.18	4.24	259	259	1	200	51830	
	2	4.68	4.65	4.71	112	112	1	200	22381	
	3	4.93	4.90	4.96	221	221	1	200	44105	
	4	4.98	4.95	5.01	97	97	1	200	19457	
	5	5.07	5.04	5.10	40	40	1	200	8012	
	6	5.33	5.30	5.36	72	72	1	200	14495	

FORM VI-3

ASX73 1955

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Calibration File: 1P7190

GC Column (1) : RTXCLPI ID: 0.32 (mm) Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	4.21	4.18	4.24	154	154	1	200	30777	
	2	4.67	4.64	4.70	168	168	1	200	33627	
	3	4.93	4.90	4.96	330	330	1	200	66032	
	4	4.98	4.95	5.01	143	143	1	200	28697	
	5	5.06	5.03	5.09	69	69	1	200	13810	
	6	5.33	5.30	5.36	117	117	1	200	23440	
Aroclor-1248	1	4.93	4.90	4.96	253	227	1	50	12630	8.8
					230		2	100	23013	
					222		3	200	44453	
					234		4	500	116980	
					198		5	1000	197662	
	2	5.20	5.17	5.23	135	120	1	50	6772	11.6
					126		2	100	12576	
					122		3	200	24484	
					120		4	500	60076	
					98		5	1000	97707	
	3	5.33	5.30	5.36	276	237	1	50	13809	13.2
					252		2	100	25234	
					237		3	200	47377	
					225		4	500	112741	
					192		5	1000	192071	
	4	5.45	5.42	5.48	195	169	1	50	9753	12.2
					177		2	100	17717	
					169		3	200	33781	
					166		4	500	83248	
					138		5	1000	138101	
	5	6.17	6.14	6.20	135	119	1	50	6763	10.8
					120		2	100	12040	
					119		3	200	23766	
					119		4	500	59666	
					99		5	1000	99101	
	6	6.43	6.40	6.46	104	99	1	50	5206	9.3
					94		2	100	9427	
					95		3	200	19096	
					112		4	500	55901	
					88		5	1000	88471	

FORM VI-3

ASX73 1056

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088A
Calibration File: 1P7190
GC Column (1): RTXCLPI
ID: 0.32 (mm)
Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1254	1	5.85	5.82	5.88	361	292	1	50	18049	17.5
					323		2	100	32306	
					280		3	250	69977	
					266		4	500	132870	
					229		5	1000	229356	
	2	6.17	6.14	6.20	436	368	1	50	21804	15.0
					407		2	100	40705	
					359		3	250	89693	
					342		4	500	171176	
					295		5	1000	295409	
	3	6.42	6.39	6.45	342	299	1	50	17119	12.4
					323		2	100	32280	
					302		3	250	75416	
					284		4	500	142140	
					245		5	1000	245449	
	4	6.57	6.54	6.60	234	199	1	50	11706	15.6
					222		2	100	22186	
					197		3	250	49371	
					183		4	500	91636	
					156		5	1000	156372	
	5	6.66	6.63	6.69	229	208	1	50	11472	9.7
					223		2	100	22269	
					206		3	250	51496	
					203		4	500	101422	
					178		5	1000	177800	
	6	6.80	6.77	6.83	360	311	1	50	18011	13.2
					340		2	100	34035	
					308		3	250	77051	
					293		4	500	146536	
					255		5	1000	254958	

FORM VI-3

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Calibration File: 1P7190

GC Column (1) : RTXCLPI ID: 0.32 (mm) Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	6.32	6.29	6.35	405	327	1	50	20259	18.2
					362		2	100	36206	
					327		3	200	65451	
					286		4	500	142946	
					255		5	1000	255062	
	2	6.55	6.52	6.58	491	392	1	50	24538	18.7
					433		2	100	43268	
					391		3	200	78217	
					341		4	500	170518	
					305		5	1000	305244	
	3	6.80	6.77	6.83	510	412	1	50	25487	17.2
					447		2	100	44720	
					412		3	200	82407	
					367		4	500	183288	
					327		5	1000	326809	
	4	7.07	7.04	7.10	306	259	1	50	15292	14.6
					279		2	100	27917	
					264		3	200	52860	
					233		4	500	116404	
					211		5	1000	210531	
	5	7.38	7.35	7.41	669	569	1	50	33462	13.9
					616		2	100	61586	
					569		3	200	113736	
					521		4	500	260633	
					468		5	1000	467565	
	6	7.68	7.65	7.71	351	294	1	50	17528	14.6
					318		2	100	31783	
					296		3	200	59104	
					264		4	500	132109	
					242		5	1000	241713	
Aroclor-1262	1	6.55	6.52	6.58	273	273	1	200	54527	
	2	6.87	6.84	6.90	310	310	1	200	62050	
	3	7.07	7.04	7.10	304	304	1	200	60734	
	4	7.38	7.35	7.41	703	703	1	200	140619	
	5	7.68	7.65	7.71	393	393	1	200	78558	
	6	8.45	8.42	8.48	275	275	1	200	54941	

ASX73 1050

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H5088A Calibration File: 1P7190
GC Column (1) : RTXCLPI ID: 0.32 (mm) Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	7.68	7.65	7.71	889	889	1	200	177846	
	2	7.77	7.74	7.80	784	784	1	200	156761	
	3	8.00	7.97	8.03	808	808	1	200	161572	
	4	8.11	8.08	8.14	200	200	1	200	39991	
	5	8.46	8.43	8.49	353	353	1	200	70659	
	6	8.90	8.87	8.93	2203	2203	1	200	440564	

ASX73 1099

File Name: V:\CP7\1p7190.CAL
Version: 10

Calibrated By: Jessica L. Miller
Jessica L. Miller
Chemist

JUL 08 2012

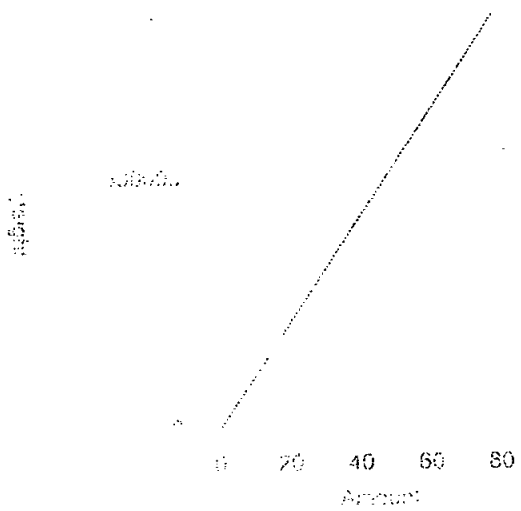
Creator:
Description:
Reason for change:

External standard calibration
Standard injection volume: 1
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units: ug/l
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: 3.854 minutes
Search window: 0.03 minutes
No retention time reference component
No response proxy component
Group number: 0

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

Single peak quantification by height

Y = 10684.11 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9306259
Average error: 11.575%
Average CF: 10684.11
RSD: 15.862%

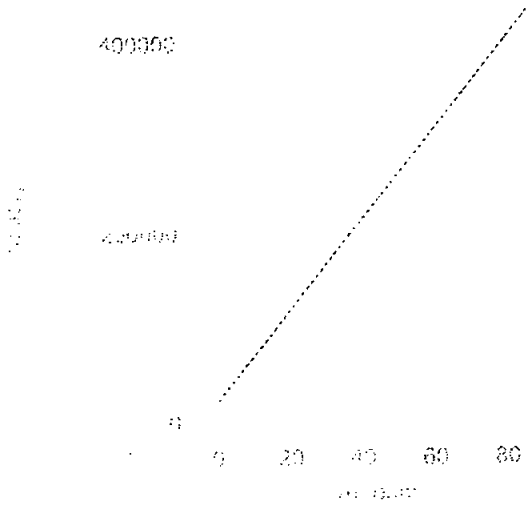
Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4.126	55441.98	13437.22	25.768	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190.006.BND	7/8/2012 5:04:57 PM
2	20.63	227397.5	11022.66	3.169	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190.007.BND	7/8/2012 5:19:29 PM
3	41.26	421517	10216.12	-4.380	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190.008.BND	7/8/2012 5:34:17 PM
4	62.055	597591.1	9630.023	-9.866	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190.009.BND	7/8/2012 5:48:47 PM
5	82.52	752131.6	9114.538	-14.691	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190.010.BND	7/8/2012 6:03:33 PM

2 DCB

audited by:
Monica M. Souders
Monica M. Souders
Chemist

JUL 09 2012

ASX73 1860



Expected retention time:	9.258 minutes
Search window:	0.03 minutes
No retention time reference component	
No response proxy component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

Single peak quantification by height

Y = 4783.165 X + 23319.22

Linear fit with equal weighting	
Coefficient of determination:	0.9960351
Average error:	7.325%
Average CF:	6019.952
RSD:	20.682%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4	32339.62	8084.905	-23.821	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\Ip7190.006.BND	7/8/2012 5:04:5
2	20	124432.5	6221.625	4.580	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\Ip7190.007.BND	7/8/2012 5:19:2
3	40	222194.9	5554.873	3.517	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\Ip7190.008.BND	7/8/2012 5:34:1
4	60.16	318109.2	5287.719	2.261	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\Ip7190.009.BND	7/8/2012 5:48:4
5	80	396050.9	4950.636	-2.444	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\Ip7190.010.BND	7/8/2012 6:03:3

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Calibration File: 1P7190B
GC Column (2) : RTXCLPII
ID: 0.32 (mm)
Update File: 1P7190B.031.RAW
Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Tetrachloro-m-xylene	3.70	3.70	3.70	3.70	3.70	3.69	3.66	3.72
Decachlorobiphenyl	8.72	8.72	8.72	8.71	8.72	8.71	8.68	8.74

FORM VI-1

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Calibration File: 1P7190B
GC Column (2) : RTXCLPII
ID: 0.32 (mm)
Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	3.67E+03	3.75E+03	3.72E+03	3.68E+03	3.59E+03	3.68E+03	1.6
Decachlorobiphenyl	4.90E+03	3.88E+03	3.57E+03	3.37E+03	3.22E+03	3.79E+03	17.7

Average % RSD: 9.7

FORM VI-2

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Calibration File: 1P7190B
GC Column (2) : RTXCLPII
ID: 0.32 (mm)
Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	4.08	4.05	4.11	88	78	1	50	4415	9.6
					83		2	100	8260	
					78		3	200	15644	
					74		4	500	37100	
					69		5	1000	68756	
	2	4.38	4.35	4.41	154	132	1	50	7703	13.2
					142		2	100	14162	
					133		3	200	26663	
					121		4	500	60749	
					109		5	1000	109322	
	3	4.55	4.52	4.58	105	96	1	50	5264	7.8
					100		2	100	10015	
					96		3	200	19227	
					92		4	500	45903	
					86		5	1000	85770	
	4	4.77	4.74	4.80	236	216	1	50	11782	7.7
					225		2	100	22506	
					217		3	200	43429	
					208		4	500	104022	
					192		5	1000	192354	
	5	5.01	4.98	5.04	63	55	1	50	3138	10.6
					58		2	100	5752	
					55		3	200	11098	
					51		4	500	25250	
					48		5	1000	47981	
	6	5.30	5.27	5.33	73	69	1	50	3669	4.9
					70		2	100	7016	
					69		3	200	13776	
					67		4	500	33606	
					64		5	1000	64258	
Aroclor-1221	1	3.92	3.89	3.95	41	41	1	200	8275	
	2	4.01	3.98	4.04	34	34	1	200	6711	
	3	4.08	4.05	4.11	106	106	1	200	21191	
Aroclor-1232	1	4.08	4.05	4.11	104	104	1	200	20763	
	2	4.38	4.35	4.41	69	69	1	200	13829	
	3	4.55	4.52	4.58	51	51	1	200	10134	
	4	4.77	4.74	4.80	108	108	1	200	21592	
	5	5.02	4.99	5.05	26	26	1	200	5177	
	6	5.31	5.28	5.34	33	33	1	200	6617	

FORM VI-3

ASX73 1064

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Calibration File: 1P7190B
GC Column (2): RTXCLPII
ID: 0.32 (mm)
Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	4.08	4.05	4.11	60	60	1	200	12077	
	2	4.38	4.35	4.41	96	96	1	200	19113	
	3	4.55	4.52	4.58	71	71	1	200	14274	
	4	4.77	4.74	4.80	165	165	1	200	33077	
	5	5.01	4.98	5.04	43	43	1	200	8685	
	6	5.31	5.28	5.34	55	55	1	200	10987	
Aroclor-1248	1	4.77	4.74	4.80	111	107	1	50	5548	6.3
					108		2	100	10797	
					104		3	200	20864	
					114		4	500	57043	
					97		5	1000	96707	
	2	5.02	4.99	5.05	69	63	1	50	3439	8.1
					64		2	100	6357	
					63		3	200	12611	
					65		4	500	32466	
					55		5	1000	54799	
	3	5.17	5.14	5.20	112	93	1	50	5606	19.6
					106		2	100	10627	
					100		3	200	20029	
					72		4	500	35802	
					76		5	1000	76007	
	4	5.31	5.28	5.34	82	77	1	50	4080	5.5
					78		2	100	7825	
					78		3	200	15660	
					74		4	500	37035	
					71		5	1000	70704	
	5	5.99	5.96	6.02	67	63	1	50	3338	6.6
					63		2	100	6347	
					61		3	200	12222	
					66		4	500	33138	
					57		5	1000	56710	
	6	6.20	6.17	6.23	53	50	1	50	2636	6.2
					51		2	100	5109	
					51		3	200	10113	
					50		4	500	25135	
					45		5	1000	44591	

FORM VI-3

ASX73 1065

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Calibration File: 1P7190B
GC Column (2) : RTXCLPII
ID: 0.32 (mm)
Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1254	1	5.49	5.46	5.52	200	178	1	50	10021	10.4
					190		2	100	18991	
					176		3	250	43989	
					171		4	500	85454	
					152		5	1000	152165	
	2	5.99	5.96	6.02	248	220	1	50	12405	12.0
					239		2	100	23856	
					224		3	250	56013	
					206		4	500	103006	
					182		5	1000	182156	
	3	6.11	6.08	6.14	121	106	1	50	6032	11.2
					113		2	100	11324	
					105		3	250	26280	
					102		4	500	51125	
					89		5	1000	89134	
	4	6.20	6.17	6.23	165	149	1	50	8228	9.0
					158		2	100	15814	
					149		3	250	37166	
					146		4	500	73151	
					129		5	1000	129132	
	5	6.42	6.39	6.45	93	93	1	50	4639	5.7
					98		2	100	9848	
					94		3	250	23486	
					94		4	500	46815	
					84		5	1000	84106	
	6	6.58	6.55	6.61	191	177	1	50	9558	7.7
					186		2	100	18603	
					177		3	250	44189	
					175		4	500	87318	
					156		5	1000	155663	

FORM VI-3

ASX73 1066

6F
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H5088B Calibration File: 1P7190B
GC Column (2) : RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	6.28	6.25	6.31	252	213	1	50	12580	13.6
					230		2	100	22955	
					214		3	200	42745	
					195		4	500	97278	
					178		5	1000	177556	
	2	6.42	6.39	6.45	215	191	1	50	10735	9.1
					199		2	100	19946	
					193		3	200	38517	
					180		4	500	90156	
					169		5	1000	169326	
	3	6.58	6.55	6.61	137	126	1	50	6857	7.0
					130		2	100	13008	
					127		3	200	25496	
					123		4	500	61415	
					114		5	1000	113541	
	4	6.79	6.76	6.82	21	21	1	50	1050	1.4
					21		2	100	2122	
					21		3	200	4265	
					22		4	500	10828	
					22		5	1000	21705	
	5	7.07	7.04	7.10	382	338	1	50	19123	9.8
					355		2	100	35470	
					338		3	200	67507	
					317		4	500	158383	
					297		5	1000	296895	
	6	7.42	7.39	7.45	271	239	1	50	13568	10.0
					255		2	100	25505	
					223		3	200	44661	
					230		4	500	115123	
					213		5	1000	213263	
Aroclor-1262	1	6.42	6.39	6.45	158	158	1	200	31689	
	2	6.61	6.58	6.64	170	170	1	200	34019	
	3	6.84	6.81	6.87	209	209	1	200	41887	
	4	7.07	7.04	7.10	431	431	1	200	86299	
	5	7.42	7.39	7.45	314	314	1	200	62745	
	6	8.00	7.97	8.03	183	183	1	200	36628	

FORM VI-3

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Calibration File: 1P7190B
GC Column (2): RTXCLPII
ID: 0.32 (mm)
Date(s) Analyzed: 7/8/12 7/8/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	7.35	7.32	7.38	595	595	1	200	119052	
	2	7.42	7.39	7.45	575	575	1	200	114926	
	3	7.64	7.61	7.67	575	575	1	200	115001	
	4	7.75	7.72	7.78	142	142	1	200	28309	
	5	8.00	7.97	8.03	250	250	1	200	50009	
	6	8.37	8.34	8.40	1606	1606	1	200	321260	

FORM VI-3

ASX73 1868

File Name: V:\CP7\1p7190b.CAL
Version: 14

Creator:
Description:
Reason for change:

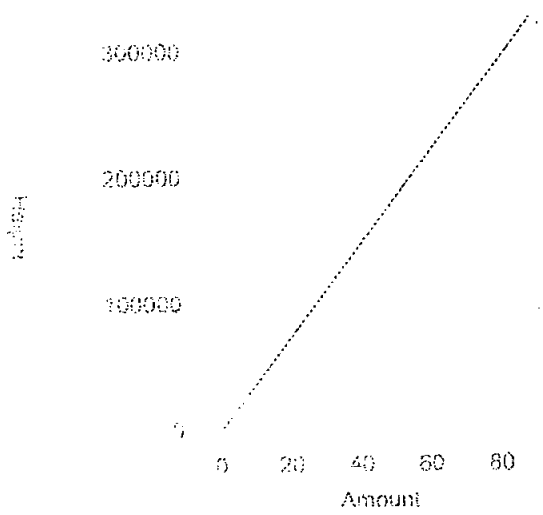
Calibrated by: Jessica L. Miller
Jessica L. Miller
Chemist
JUL 08 2012

External standard calibration
Standard injection volume: 1
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units: ug/l
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: 3.693 minutes
Search window: 0.03 minutes
No retention time reference component
No response proxy component
Group number: 0

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

Single peak quantification by height

Y = 3683.27 X + 0

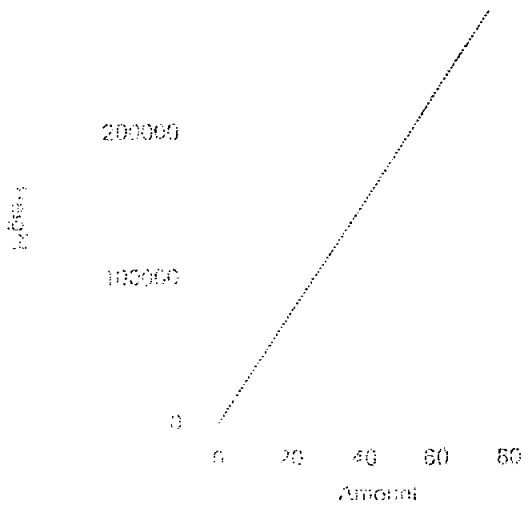
Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9987642
Average error: 1.129%
Average CF: 3683.27
RSD: 1.628%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4.126	15157.61	3673.682	-0.260	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190B.006.BND	7/8/2012 5:05:01 PM
2	20.63	77305.25	3747.225	1.736	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190B.007.BND	7/8/2012 5:19:33 PM
3	41.26	153622.7	3723.284	1.086	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190B.008.BND	7/8/2012 5:34:21 PM
4	62.055	228459.4	3681.563	-0.046	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190B.009.BND	7/8/2012 5:48:51 PM
5	82.52	296295.9	3590.595	-2.516	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190B.010.BND	7/8/2012 6:03:37 PM

2 DCB

audited by:
Monica M. Souders
Monica M. Souders
Chemist
JUL 09 2012

ASX73 1069



Expected retention time: 8.71 minutes
Search window: 0.03 minutes
No retention time reference component
No response proxy component
Group number: 0

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

Single peak quantification by height

Y = 3791.3 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9228737
Average error: 12.718%
Average CF: 3791.3
RSD: 17.662%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4	19619.64	4904.91	29.373	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190B.006.BND	7/8/2012 5:05:
2	20	77661.95	3883.098	2.421	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190B.007.BND	7/8/2012 5:19:
3	40	142831.5	3570.788	-5.816	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190B.008.BND	7/8/2012 5:34:
4	60.16	203012.7	3374.546	-10.992	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190B.009.BND	7/8/2012 5:48:
5	80	257852.5	3223.156	-14.985	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190B.010.BND	7/8/2012 6:03:

ASX73 1978

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Calibration File: 1P7207

GC Column (1) : RTXCLPI ID: 0.32 (mm) Update File:

Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Tetrachloro-m-xylene	3.79	3.79	3.79	3.79	3.79	3.79	3.76	3.82
Decachlorobiphenyl	9.10	9.10	9.10	9.11	9.10	9.09	9.06	9.12

ASX73 1971

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Calibration File: 1P7207

GC Column (1) : RTXCLPI ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	1.11E+04	8.62E+03	8.26E+03	7.57E+03	7.27E+03	8.56E+03	17.7
Decachlorobiphenyl	5.29E+03	4.07E+03	3.85E+03	3.54E+03	3.37E+03	4.02E+03	18.8

Average % RSD: 18.3

ASX73 1072

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Calibration File: 1P7207

GC Column (1) : RTXCLPI ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	4.13	4.10	4.16	218	170	1	50	10904	19.2
					180		2	100	17996	
					172		3	200	34473	
					147		4	500	73570	
					134		5	1000	133518	
	2	4.59	4.56	4.62	238	190	1	50	11887	17.6
					199		2	100	19879	
					195		3	200	38968	
					165		4	500	82738	
					152		5	1000	151508	
	3	4.85	4.82	4.88	487	383	1	50	24325	18.2
					407		2	100	40706	
					381		3	200	76276	
					337		4	500	168601	
					304		5	1000	304436	
	4	4.98	4.95	5.01	204	165	1	50	10182	16.2
					173		2	100	17285	
					167		3	200	33375	
					147		4	500	73267	
					134		5	1000	133914	
	5	5.25	5.22	5.28	179	144	1	50	8940	17.5
					154		2	100	15372	
					148		3	200	29622	
					127		4	500	63296	
					114		5	1000	113724	
	6	5.36	5.33	5.39	147	120	1	50	7366	16.4
					127		2	100	12739	
					124		3	200	24717	
					106		4	500	53085	
					96		5	1000	96408	
Aroclor-1221	1	3.99	3.96	4.02	92	92	1	200	18474	
	2	4.07	4.04	4.10	77	77	1	200	15349	
	3	4.14	4.11	4.17	221	221	1	200	44139	
Aroclor-1232	1	4.14	4.11	4.17	228	228	1	200	45549	
	2	4.60	4.57	4.63	95	95	1	200	18937	
	3	4.85	4.82	4.88	205	205	1	200	41052	
	4	4.99	4.96	5.02	86	86	1	200	17247	
	5	5.25	5.22	5.28	71	71	1	200	14155	
	6	5.37	5.34	5.40	63	63	1	200	12691	

ASX73 1073

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Calibration File: 1P7207

GC Column (1): RTXCLPI ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	4.14	4.11	4.17	137	137	1	200	27347	
	2	4.60	4.57	4.63	148	148	1	200	29585	
	3	4.85	4.82	4.88	304	304	1	200	60851	
	4	4.99	4.96	5.02	129	129	1	200	25800	
	5	5.25	5.22	5.28	115	115	1	200	23013	
	6	5.37	5.34	5.40	102	102	1	200	20396	
Aroclor-1248	1	4.85	4.82	4.88	211	197	1	50	10568	8.4
					204		2	100	20416	
					201		3	200	40171	
					200		4	500	99828	
					168		5	1000	168341	
	2	5.11	5.08	5.14	117	101	1	50	5856	13.4
					108		2	100	10766	
					104		3	200	20895	
					97		4	500	48604	
					81		5	1000	80832	
	3	5.25	5.22	5.28	229	199	1	50	11452	12.8
					210		2	100	21021	
					203		3	200	40595	
					194		4	500	97126	
					160		5	1000	160021	
	4	5.37	5.34	5.40	153	137	1	50	7666	11.5
					146		2	100	14566	
					142		3	200	28309	
					134		4	500	67083	
					112		5	1000	112071	
	5	5.63	5.60	5.66	138	123	1	50	6892	9.7
					125		2	100	12452	
					126		3	200	25144	
					125		4	500	62328	
					105		5	1000	104635	
	6	5.77	5.74	5.80	255	224	1	50	12760	12.0
					234		2	100	23404	
					227		3	200	45454	
					220		4	500	109843	
					182		5	1000	181592	

ASX73 1974

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Calibration File: 1P7207

GC Column (1) : RTXCLPI ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1254	1	5.77	5.74	5.80	293	239	1	50	14650	18.6
					276		2	100	27644	
					233		3	250	58367	
					204		4	500	101799	
					191		5	1000	190623	
	2	6.08	6.05	6.11	359	308	1	50	17933	15.1
					351		2	100	35130	
					307		3	250	76659	
					269		4	500	134741	
					256		5	1000	255919	
	3	6.34	6.31	6.37	262	236	1	50	13110	11.3
					259		2	100	25926	
					240		3	250	60051	
					211		4	500	105506	
					205		5	1000	204845	
	4	6.48	6.45	6.51	192	166	1	50	9591	15.4
					190		2	100	19048	
					166		3	250	41461	
					143		4	500	71458	
					138		5	1000	137545	
	5	6.58	6.55	6.61	180	167	1	50	9010	8.8
					182		2	100	18194	
					167		3	250	41857	
					152		4	500	76008	
					151		5	1000	151462	
	6	6.71	6.68	6.74	276	248	1	50	13791	11.5
					278		2	100	27801	
					245		3	250	61295	
					224		4	500	112091	
					216		5	1000	216200	

FORM VI-3

ASX73 1075

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Calibration File: 1P7207

GC Column (1) : RTXCLPI ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	6.23	6.20	6.26	341	267	1	50	17034	19.5
					286		2	100	28639	
					273		3	200	54513	
					229		4	500	114704	
					207		5	1000	206967	
	2	6.47	6.44	6.50	393	308	1	50	19632	18.8
					327		2	100	32667	
					310		3	200	62060	
					268		4	500	133767	
					243		5	1000	242698	
	3	6.71	6.68	6.74	371	301	1	50	18547	15.6
					314		2	100	31408	
					305		3	200	61050	
					268		4	500	134044	
					249		5	1000	248919	
	4	6.98	6.95	7.01	214	177	1	50	10708	14.1
					181		2	100	18114	
					181		3	200	36114	
					161		4	500	80561	
					148		5	1000	148427	
	5	7.28	7.25	7.31	427	361	1	50	21326	12.2
					367		2	100	36666	
					370		3	200	73918	
					329		4	500	164494	
					312		5	1000	312433	
	6	7.58	7.55	7.61	215	177	1	50	10760	14.1
					183		2	100	18310	
					176		3	200	35231	
					160		4	500	79968	
					151		5	1000	150594	
Aroclor-1262	1	6.47	6.44	6.50	213	213	1	200	42506	
	2	6.79	6.76	6.82	243	243	1	200	48656	
	3	6.98	6.95	7.01	229	229	1	200	45826	
	4	7.28	7.25	7.31	485	485	1	200	96993	
	5	7.58	7.55	7.61	248	248	1	200	49593	
	6	8.32	8.29	8.35	170	170	1	200	34044	

ASX73 1876

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Calibration File: 1P7207

GC Column (1) : RTXCLPI ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	7.57	7.54	7.60	515	515	1	200	102960	
	2	7.66	7.63	7.69	448	448	1	200	89555	
	3	7.88	7.85	7.91	460	460	1	200	92071	
	4	7.99	7.96	8.02	112	112	1	200	22352	
	5	8.33	8.30	8.36	197	197	1	200	39389	
	6	8.75	8.72	8.78	1371	1371	1	200	274114	

ASX73 1077

File Name: V:\CP7\1P7207.CAL
Version: 8

Creator:
Description:
Reason for change:

Calibrated By: Jessica L. Miller
Chemist

JUL 25 2012

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

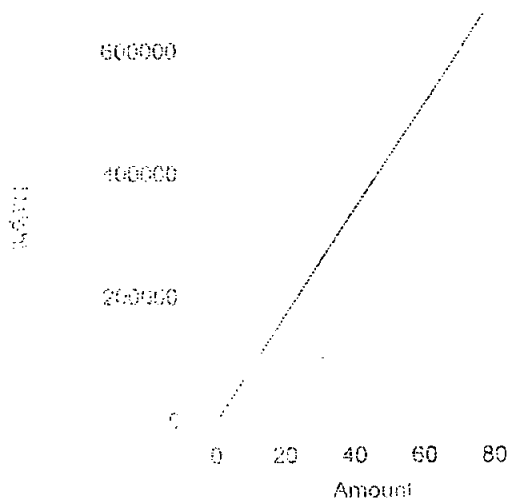
Audited By: Lisa A. Reinert
Chemist

JUL 25 2012

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

Single peak quantification by height

Y = 8562.519 X + 0

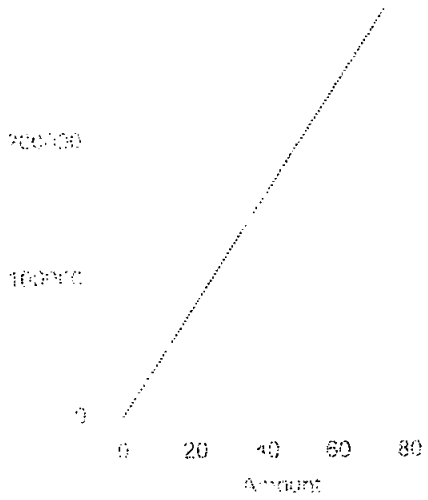
Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9218146
Average error:	12.080%
Average CF:	8562.519
RSD:	17.651%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4.126	45765.3	11091.93	29.541	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.006.BND	7/25/2012 3:00:12 PM
2	20.63	177809.1	8618.958	0.659	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.007.BND	7/25/2012 3:00:16 PM
3	41.26	340609.6	8255.201	-3.589	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.008.BND	7/25/2012 3:00:20 PM
4	62.055	470025.5	7574.337	-11.541	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.009.BND	7/25/2012 3:00:24 PM
5	82.52	600099.2	7272.167	-15.070	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.010.BND	7/25/2012 3:00:28 PM

2 DCB

ASX73 1878



Expected retention time:	9.093 minutes
Search window:	0.03 minutes
No retention time reference component	
No response proxy component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

Single peak quantification by height

Y = 4023.736 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.90841
Average error:	13.000%
Average CF:	4023.736
RSD:	18.784%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4	21145.92	5286.48	31.382	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.006.BND	7/25/2012 3:00:
2	20	81374.33	4068.716	1.118	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.007.BND	7/25/2012 3:00:
3	40	154116	3852.9	-4.246	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.008.BND	7/25/2012 3:00:
4	60.16	212716.4	3535.844	-12.125	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.009.BND	7/25/2012 3:00:
5	80	269979	3374.738	-16.129	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.010.BND	7/25/2012 3:00:

ASX73 1079

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Calibration File: 1P7207B
GC Column (2): RTXCLPII
ID: 0.32 (mm)
Update File:
Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Tetrachloro-m-xylene	3.63	3.63	3.63	3.63	3.63	3.63	3.60	3.66
Decachlorobiphenyl	8.58	8.58	8.58	8.58	8.58	8.57	8.54	8.60

FORM VI-1

ASX73 1888

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Calibration File: 1P7207B

GC Column (2) : RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	3.93E+03	3.55E+03	3.68E+03	3.45E+03	3.37E+03	3.59E+03	6.1
Decachlorobiphenyl	4.32E+03	3.31E+03	3.18E+03	2.87E+03	2.78E+03	3.29E+03	18.6

Average % RSD: 12.4

ASX73 1981

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Calibration File: 1P7207B

GC Column (2) : RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	4.01	3.98	4.04	93	78	1	50	4673	13.9
					80		2	100	8024	
					79		3	200	15738	
					70		4	500	35247	
					65		5	1000	65206	
	2	4.31	4.28	4.34	150	126	1	50	7507	16.2
					135		2	100	13543	
					132		3	200	26405	
					114		4	500	57217	
					97		5	1000	97351	
	3	4.47	4.44	4.50	113	96	1	50	5630	12.0
					97		2	100	9740	
					97		3	200	19463	
					88		4	500	44144	
					82		5	1000	82250	
	4	4.70	4.67	4.73	249	212	1	50	12461	11.9
					217		2	100	21694	
					215		3	200	43055	
					198		4	500	98872	
					182		5	1000	181697	
	5	4.75	4.72	4.78	84	67	1	50	4207	15.7
					69		2	100	6907	
					66		3	200	13283	
					61		4	500	30414	
					56		5	1000	56394	
	6	4.94	4.91	4.97	64	53	1	50	3189	13.8
					55		2	100	5484	
					53		3	200	10659	
					48		4	500	23979	
					45		5	1000	44794	
Aroclor-1221	1	3.85	3.82	3.88	41	41	1	200	8291	
	2	3.94	3.91	3.97	34	34	1	200	6718	
	3	4.01	3.98	4.04	104	104	1	200	20896	
Aroclor-1232	1	4.01	3.98	4.04	108	108	1	200	21527	
	2	4.31	4.28	4.34	71	71	1	200	14206	
	3	4.48	4.45	4.51	54	54	1	200	10734	
	4	4.70	4.67	4.73	115	115	1	200	22901	
	5	4.75	4.72	4.78	37	37	1	200	7411	
	6	4.94	4.91	4.97	26	26	1	200	5271	

ASX73 1882

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Calibration File: 1P7207B

GC Column (2) : RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	4.01	3.98	4.04	64	64	1	200	12785	
	2	4.31	4.28	4.34	106	106	1	200	21277	
	3	4.48	4.45	4.51	77	77	1	200	15313	
	4	4.70	4.67	4.73	174	174	1	200	34718	
	5	4.75	4.72	4.78	54	54	1	200	10760	
	6	4.94	4.91	4.97	45	45	1	200	8988	
Aroclor-1248	1	4.70	4.67	4.73	109	106	1	50	5440	5.6
					105		2	100	10475	
					108		3	200	21600	
					111		4	500	55668	
					96		5	1000	95960	
	2	4.94	4.91	4.97	68	62	1	50	3401	8.5
					63		2	100	6335	
					62		3	200	12423	
					63		4	500	31355	
					53		5	1000	53474	
	3	5.10	5.07	5.13	113	105	1	50	5666	7.2
					105		2	100	10539	
					107		3	200	21423	
					107		4	500	53694	
					93		5	1000	92628	
	4	5.23	5.20	5.26	80	77	1	50	4024	5.5
					77		2	100	7675	
					78		3	200	15607	
					81		4	500	40457	
					70		5	1000	70320	
	5	5.42	5.39	5.45	104	96	1	50	5220	9.7
					96		2	100	9616	
					103		3	200	20563	
					94		4	500	46762	
					81		5	1000	81159	
	6	5.61	5.58	5.64	52	50	1	50	2585	5.4
					48		2	100	4827	
					51		3	200	10241	
					53		4	500	26525	
					46		5	1000	46402	

ASX73 1083

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Calibration File: 1P7207B

GC Column (2) : RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1254	1	5.42	5.39	5.45	191	171	1	50	9540	11.7
					190		2	100	19046	
					170		3	250	42541	
					153		4	500	76721	
					148		5	1000	148486	
	2	5.91	5.88	5.94	244	215	1	50	12191	14.0
					242		2	100	24163	
					222		3	250	55583	
					187		4	500	93600	
					179		5	1000	179493	
	3	6.12	6.09	6.15	161	145	1	50	8051	10.4
					160		2	100	16048	
					145		3	250	36163	
					133		4	500	66702	
					128		5	1000	127860	
	4	6.20	6.17	6.23	101	89	1	50	5066	13.1
					100		2	100	10023	
					88		3	250	22094	
					79		4	500	39708	
					76		5	1000	75788	
	5	6.34	6.31	6.37	98	91	1	50	4902	8.5
					100		2	100	10012	
					91		3	250	22843	
					84		4	500	42201	
					83		5	1000	82760	
	6	6.50	6.47	6.53	180	169	1	50	9023	8.3
					185		2	100	18534	
					170		3	250	42594	
					158		4	500	79185	
					152		5	1000	152142	

ASX73 1884

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Calibration File: 1P7207B

GC Column (2) : RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	6.03	6.00	6.06	220	175	1	50	11018	17.3
					184		2	100	18383	
					177		3	200	35382	
					154		4	500	77072	
					142		5	1000	141618	
	2	6.20	6.17	6.23	261	209	1	50	13035	16.8
					219		2	100	21936	
					211		3	200	42248	
					184		4	500	92204	
					170		5	1000	169592	
	3	6.34	6.31	6.37	215	183	1	50	10747	11.7
					186		2	100	18555	
					186		3	200	37222	
					168		4	500	83886	
					159		5	1000	159063	
	4	6.76	6.73	6.79	140	121	1	50	7022	10.6
					122		2	100	12159	
					123		3	200	24612	
					112		4	500	56201	
					107		5	1000	106943	
	5	6.99	6.96	7.02	340	292	1	50	16997	11.1
					295		2	100	29497	
					298		3	200	59635	
					269		4	500	134447	
					256		5	1000	255839	
	6	7.32	7.29	7.35	226	199	1	50	11280	9.0
					200		2	100	19959	
					203		3	200	40662	
					186		4	500	92844	
					180		5	1000	179538	
Aroclor-1262	1	6.34	6.31	6.37	151	151	1	200	30188	
	2	6.53	6.50	6.56	161	161	1	200	32194	
	3	6.76	6.73	6.79	189	189	1	200	37792	
	4	6.99	6.96	7.02	374	374	1	200	74815	
	5	7.73	7.70	7.76	55	55	1	200	10910	
	6	7.89	7.86	7.92	146	146	1	200	29114	

ASX73 1885

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Calibration File: 1P7207B

GC Column (2) : RTXCLPII ID: 0.32 (mm) Date(s) Analyzed: 7/25/12 7/25/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	7.26	7.23	7.29	436	436	1	200	87236	
	2	7.33	7.30	7.36	400	400	1	200	80041	
	3	7.54	7.51	7.57	402	402	1	200	80315	
	4	7.65	7.62	7.68	92	92	1	200	18324	
	5	7.89	7.86	7.92	165	165	1	200	32994	
	6	8.25	8.22	8.28	1154	1154	1	200	230894	

ASX73 1006

File Name: V:\CP7\1P7207b.CAL
Version: 7

Creator:
Description:
Reason for change:

Calibrated By: Jessica L. Miller
Jessica L. Miller
Chemist
JUL 25 2012

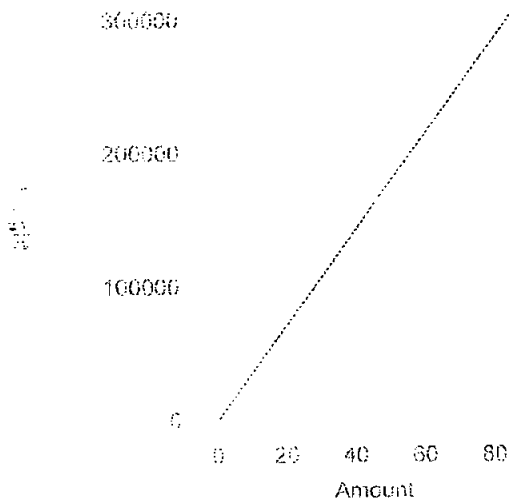
External standard calibration
Standard injection volume: 1
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units: ug/l
No default component

Audited By: Lisa A. Reinert
Lisa A. Reinert
Chemist
JUL 25 2012

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

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

Single peak quantification by height

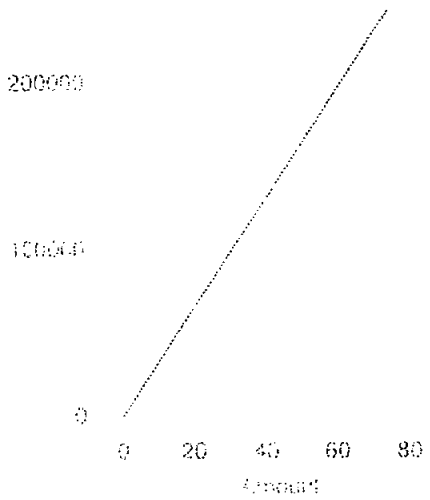
Y = 3592.835 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9898988
Average error: 4.635%
Average CF: 3592.835
RSD: 6.101%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4.126	16198.16	3925.875	9.270	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207B.006.BND	7/25/2012 3:00:15 P
2	20.63	73174.72	3547.005	-1.276	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207B.007.BND	7/25/2012 3:00:19 P
3	41.26	151674.7	3676.072	2.317	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207B.008.BND	7/25/2012 3:00:23 P
4	62.055	214095.1	3450.086	-3.973	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207B.009.BND	7/25/2012 3:00:27 P
5	82.52	277691.3	3365.14	-6.338	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207B.010.BND	7/25/2012 3:00:31 P

2 DCB

ASX73 1087



Expected retention time:	8.571 minutes
Search window:	0.03 minutes
No retention time reference component	
No response proxy component	
Group number:	0
High alarm limit:	0
Low alarm limit:	0
Component constant:	0

Single peak quantification by height

Y = 3293.633 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.91298
Average error:	12.644%
Average CF:	3293.633
RSD:	18.592%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4	17276.13	4319.033	31.133	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207B.006.BND	7/25/2012 3:0
2	20	66186.3	3309.315	0.476	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207B.007.BND	7/25/2012 3:0
3	40	127261.5	3181.538	-3.403	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207B.008.BND	7/25/2012 3:0
4	60.16	172920.3	2874.34	-12.730	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207B.009.BND	7/25/2012 3:0
5	80	222715.3	2783.941	-15.475	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207B.010.BND	7/25/2012 3:0

ASX73 1998

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342A Calibration File: 1P20205

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

Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Tetrachloro-m-xylene	3.31	3.31	3.31	3.31	3.31	3.31	3.29	3.33
Decachlorobiphenyl	7.20	7.20	7.20	7.20	7.20	7.20	7.18	7.22

FORM VI-1

ASX73 1989

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342A Calibration File: 1P20205

GC Column (1) : ZBmultiR1 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	2.96E+05	2.54E+05	2.46E+05	2.40E+05	2.36E+05	2.54E+05	9.6
Decachlorobiphenyl	1.30E+05	9.90E+04	9.37E+04	9.17E+04	8.84E+04	1.01E+05	16.8

Average % RSD: 13.2

ASX73 1999

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342A Calibration File: 1P20205

GC Column (1) : ZBmultiR1 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	3.57	3.54	3.60	6282	5022	1	50	314103	19.0
					5555		2	100	555502	
					5065		3	200	1012927	
					4325		4	500	2162636	
					3884		5	1000	3883562	
	2	3.92	3.89	3.95	7171	5816	1	50	358572	17.0
					6212		2	100	621160	
					5898		3	200	1179628	
					5229		4	500	2614494	
					4571		5	1000	4571329	
	3	4.16	4.13	4.19	8042	6551	1	50	402104	17.5
					7225		2	100	722460	
					6578		3	200	1315699	
					5730		4	500	2864991	
					5180		5	1000	5180183	
	4	4.23	4.20	4.26	7176	5846	1	50	358822	16.5
					6299		2	100	629915	
					5847		3	200	1169467	
					5244		4	500	2621772	
					4665		5	1000	4664996	
	5	4.30	4.27	4.33	4864	3875	1	50	243202	19.4
					4292		2	100	429211	
					3918		3	200	783672	
					3313		4	500	1656404	
					2989		5	1000	2989347	
	6	4.44	4.41	4.47	5300	4284	1	50	265007	18.3
					4753		2	100	475304	
					4302		3	200	860398	
					3703		4	500	1851509	
					3360		5	1000	3359787	
Aroclor-1221	1	3.46	3.43	3.49	2775	2775	1	200	554953	
	2	3.52	3.49	3.55	2886	2886	1	200	577243	
	3	3.57	3.54	3.60	7146	7146	1	200	1429227	
Aroclor-1232	1	3.57	3.54	3.60	6820	6820	1	200	1364077	
	2	3.92	3.89	3.95	3432	3432	1	200	686469	
	3	4.16	4.13	4.19	3969	3969	1	200	793834	
	4	4.23	4.20	4.26	3421	3421	1	200	684151	
	5	4.30	4.27	4.33	2017	2017	1	200	403475	
	6	4.44	4.41	4.47	2362	2362	1	200	472484	

ASX73 1891

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342A Calibration File: 1P20205

GC Column (1) : ZBmultiR1 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	3.57	3.54	3.60	4394	4394	1	200	878819	
	2	3.92	3.89	3.95	5244	5244	1	200	1048790	
	3	4.16	4.13	4.19	6016	6016	1	200	1203158	
	4	4.23	4.20	4.26	5307	5307	1	200	1061419	
	5	4.30	4.27	4.33	3337	3337	1	200	667463	
	6	4.44	4.41	4.47	4005	4005	1	200	801029	
Aroclor-1248	1	4.23	4.20	4.26	4146	3474	1	50	207275	15.7
					3823		2	100	382304	
					3552		3	200	710316	
					3012		4	500	1505998	
					2839		5	1000	2838984	
	2	4.44	4.41	4.47	7952	6370	1	50	397592	17.5
					6870		2	100	687021	
					6387		3	200	1277430	
					5430		4	500	2715083	
					5210		5	1000	5209909	
	3	4.54	4.51	4.57	6912	5680	1	50	345580	17.7
					6315		2	100	631454	
					5813		3	200	1162589	
					4904		4	500	2452211	
					4455		5	1000	4454864	
	4	4.74	4.71	4.77	5534	4803	1	50	276718	10.9
					5106		2	100	510634	
					4328		3	200	865690	
					4735		4	500	2367506	
					4312		5	1000	4312257	
	5	4.88	4.85	4.91	7808	6264	1	50	390377	17.2
					6795		2	100	679509	
					6167		3	200	1233446	
					5326		4	500	2663175	
					5224		5	1000	5224357	
	6	5.16	5.13	5.19	5107	4166	1	50	255364	17.0
					4553		2	100	455317	
					4206		3	200	841194	
					3586		4	500	1793129	
					3376		5	1000	3376040	

ASX73 1092

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342A Calibration File: 1P20205

GC Column (1) : ZBmultiR1 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1254	1	4.30	4.27	4.33	6166	4873	1	50	308284	19.9
					5530		2	100	553042	
					4667		3	250	1166803	
					4228		4	500	2113997	
					3774		5	1000	3774156	
	2	5.10	5.07	5.13	8264	6530	1	50	413215	19.3
					7403		2	100	740341	
					6057		3	250	1514182	
					5643		4	500	2821711	
					5284		5	1000	5284027	
	3	5.16	5.13	5.19	14887	12074	1	50	744325	16.8
					13246		2	100	1324569	
					11666		3	250	2916546	
					10828		4	500	5414019	
					9745		5	1000	9745156	
	4	5.38	5.35	5.41	11689	9282	1	50	584451	18.3
					10297		2	100	1029700	
					8733		3	250	2183224	
					8214		4	500	4107004	
					7479		5	1000	7479475	
	5	5.59	5.56	5.62	9059	7600	1	50	452974	15.2
					8524		2	100	852363	
					7268		3	250	1816948	
					6835		4	500	3417749	
					6313		5	1000	6313320	
	6	5.70	5.67	5.73	10429	8550	1	50	521473	14.8
					9116		2	100	911643	
					8104		3	250	2026084	
					7954		4	500	3976923	
					7145		5	1000	7145134	

FORM VI-3

9SX73 1993

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342A Calibration File: 1P20205

GC Column (1): ZBmultiR1 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	5.49	5.46	5.52	10412	8104	1	50	520609	19.1
					8652		2	100	865158	
					7910		3	200	1582025	
					7181		4	500	3590658	
					6362		5	1000	6362449	
	2	5.58	5.55	5.61	6206	5132	1	50	310279	15.5
					5523		2	100	552298	
					5171		3	200	1034172	
					4575		4	500	2287263	
					4184		5	1000	4184045	
	3	5.70	5.67	5.73	13906	11204	1	50	695303	16.7
					12077		2	100	1207656	
					11001		3	200	2200104	
					9843		4	500	4921265	
					9195		5	1000	9194873	
	4	5.76	5.73	5.79	7384	5827	1	50	369210	18.8
					6419		2	100	641889	
					5611		3	200	1122193	
					5073		4	500	2536535	
					4646		5	1000	4645671	
	5	6.17	6.14	6.20	16471	13971	1	50	823531	12.0
					14671		2	100	1467124	
					13586		3	200	2717260	
					12989		4	500	6494526	
					12140		5	1000	12139945	
	6	6.37	6.34	6.40	9757	8051	1	50	487870	14.7
					8557		2	100	855667	
					7962		3	200	1592497	
					7259		4	500	3629652	
					6719		5	1000	6718928	
Aroclor-1262	1	5.49	5.46	5.52	7986	7986	1	200	1597142	
	2	5.70	5.67	5.73	6768	6768	1	200	1353659	
	3	5.76	5.73	5.79	10018	10018	1	200	2003597	
	4	5.93	5.90	5.96	8275	8275	1	200	1654981	
	5	6.16	6.13	6.19	17458	17458	1	200	3491610	
	6	6.37	6.34	6.40	10150	10150	1	200	2030090	

ASX73 1094

6F

INITIAL CALIBRATION OF MULTICOMPONENT-ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342A Calibration File: 1P20205

GC Column (1) : ZBmultiR1 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	6.37	6.34	6.40	19821	19821	1	200	3964262	
	2	6.43	6.40	6.46	17167	17167	1	200	3433467	
	3	6.57	6.54	6.60	15378	15378	1	200	3075694	
	4	6.63	6.60	6.66	4496	4496	1	200	899213	
	5	6.81	6.78	6.84	7275	7275	1	200	1454963	
	6	7.03	7.00	7.06	41932	41932	1	200	8386463	

ASX73 1095

File Name: V:\CP20\1p20205.CAL
Version: 19

Creator:
Description:
Reason for change:

Calibrated By: Jessica L. Miller
Jessica L. Miller
Chemist

JUL 23 2012

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

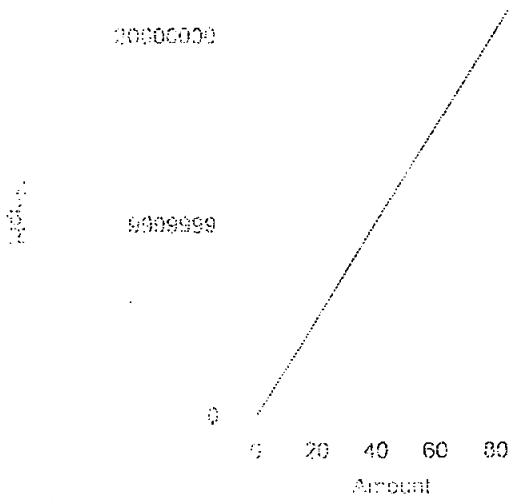
Audited By:
Lisa A. Reiner
Lisa A. Reiner
Chemist

JUL 23 2012

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:	3.307 minutes
Search window:	0.02 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 = 254472 X + 0

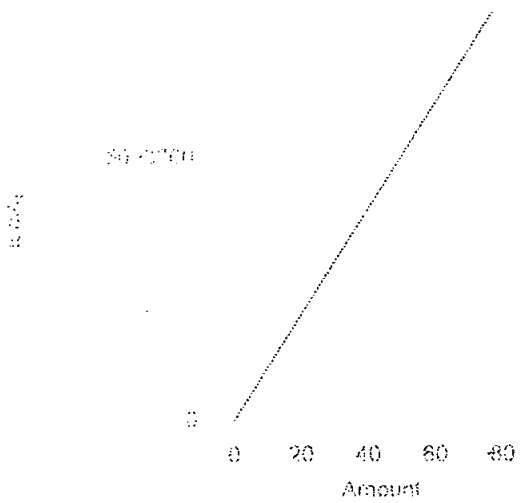
Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9845151
Average error:	6.591%
Average CF:	254472
RSD:	9.593%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and tim
1	4.126	1222961	296403.5	16.478	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0006.BND	7/23/2012 4:2
2	20.63	5238544	253928.5	-0.214	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0007.BND	7/23/2012 4:2
3	41.26	1.016256E+07	246305.4	-3.209	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0008.BND	7/23/2012 4:2
4	62.055	1.487387E+07	239688.5	-5.809	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0009.BND	7/23/2012 4:2
5	82.52	1.947752E+07	236033.9	-7.246	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0010.BND	7/23/2012 4:2

2 DCB

ASX73 1096



Expected retention time:	7.198 minutes
Search window:	0.02 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 = 100566.6 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9523013
Average error:	11.729%
Average CF:	100566.6
RSD:	16.829%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and ti
1	4	520217.9	130054.5	29.322	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0006.BND	7/23/2012 4
2	20	1979328	98966.4	-1.591	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0007.BND	7/23/2012 4
3	40	3748295	93707.38	-6.821	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0008.BND	7/23/2012 4
4	60.16	5517273	91709.99	-8.807	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0009.BND	7/23/2012 4
5	80	7071589	88394.86	-12.103	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0010.BND	7/23/2012 4

aSX73 1097

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 17342B
Calibration File: 1P20205B
GC Column (2) : ZBmultiR2
ID: 30 (mm)
Update File:
Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Tetrachloro-m-xylene	3.07	3.07	3.07	3.07	3.07	3.07	3.05	3.09
Decachlorobiphenyl	6.79	6.79	6.79	6.78	6.78	6.78	6.76	6.80

FORM VI-1

ASX73 1098

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342B Calibration File: 1P20205B

GC Column (2) : ZBmultiR2 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Tetrachloro-m-xylene	3.85E+06	3.77E+06	3.54E+06	3.47E+06	3.41E+06	3.61E+06	5.4
Decachlorobiphenyl	1.79E+06	1.68E+06	1.76E+06	1.88E+06	1.88E+06	1.80E+06	4.9

Average % RSD: 5.2

ASX73 1099

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342B Calibration File: 1P20205B

GC Column (2) : ZBmultiR2 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1016	1	3.36	3.33	3.39	65130	57258	1	50	3256511	11.6
					60912		2	100	6091203	
					58664		3	200	11732757	
					53556		4	500	26777794	
					48029		5	1000	48028600	
	2	3.70	3.67	3.73	74481	67839	1	50	3724033	7.5
					70317		2	100	7031676	
					67971		3	200	13594218	
					65583		4	500	32791310	
					60845		5	1000	60844704	
	3	3.91	3.88	3.94	83456	78091	1	50	4172805	6.6
					79841		2	100	7984149	
					80859		3	200	16171881	
					76009		4	500	38004352	
					70292		5	1000	70291592	
	4	3.99	3.96	4.02	88607	84150	1	50	4430370	3.6
					83940		2	100	8394005	
					82830		3	200	16566086	
					84944		4	500	42471832	
					80430		5	1000	80430216	
	5	4.18	4.15	4.21	40753	50842	1	50	2037647	13.1
					47694		2	100	4769370	
					56329		3	200	11265781	
					56189		4	500	28094598	
					53243		5	1000	53243296	
	6	4.28	4.25	4.31	60043	56311	1	50	3002136	4.7
					53218		2	100	5321756	
					55285		3	200	11057063	
					57838		4	500	28918792	
					55172		5	1000	55171772	
Aroclor-1221	1	3.24	3.21	3.27	28889	28889	1	200	5777782	
	2	3.30	3.27	3.33	25436	25436	1	200	5087299	
	3	3.36	3.33	3.39	85709	85709	1	200	17141778	
Aroclor-1232	1	3.36	3.33	3.39	82160	82160	1	200	16432059	
	2	3.70	3.67	3.73	37284	37284	1	200	7456847	
	3	3.91	3.88	3.94	42541	42541	1	200	8508175	
	4	3.99	3.96	4.02	43555	43555	1	200	8710913	
	5	4.17	4.14	4.20	21179	21179	1	200	4235894	
	6	4.28	4.25	4.31	27833	27833	1	200	5566570	

ASK73 1190

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342B Calibration File: 1P20205B

GC Column (2) : ZBmultiR2 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1242	1	3.36	3.33	3.39	49793	49793	1	200	9958607	
	2	3.70	3.67	3.73	57520	57520	1	200	11503904	
	3	3.91	3.88	3.94	67151	67151	1	200	13430281	
	4	3.99	3.96	4.02	69330	69330	1	200	13865965	
	5	4.18	4.15	4.21	37503	37503	1	200	7500666	
	6	4.28	4.25	4.31	49560	49560	1	200	9912035	
Aroclor-1248	1	4.03	4.00	4.06	79531	73214	1	50	3976574	6.5
					72153		2	100	7215340	
					75928		3	200	15185605	
					71432		4	500	35715768	
					67027		5	1000	67026944	
	2	4.18	4.15	4.21	62326	65249	1	50	3116290	8.3
					62034		2	100	6203392	
					70482		3	200	14096430	
					71697		4	500	35848652	
					59707		5	1000	59706884	
	3	4.28	4.25	4.31	67740	68068	1	50	3386975	1.3
					66935		2	100	6693475	
					68287		3	200	13657376	
					69300		4	500	34650220	
					68079		5	1000	68078752	
	4	4.43	4.40	4.46	140824	135997	1	50	7041217	5.1
					136127		2	100	13612659	
					143695		3	200	28739010	
					133753		4	500	66876592	
					125586		5	1000	125586400	
	5	4.59	4.56	4.62	58835	59529	1	50	2941773	4.1
					56532		2	100	5653237	
					58145		3	200	11628927	
					61937		4	500	30968664	
					62193		5	1000	62192804	
	6	4.85	4.82	4.88	61464	64340	1	50	3073175	6.1
					61612		2	100	6161248	
					62401		3	200	12480184	
					65541		4	500	32770548	
					70683		5	1000	70682768	

ASX73 1101

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342B Calibration File: 1P20205B

GC Column (2) : ZBmultiR2 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1254	1	4.43	4.40	4.46	152912	142894	1	50	7645597	8.3
					147499		2	100	14749929	
					148738		3	250	37184392	
					142583		4	500	71291312	
					122738		5	1000	122737888	
	2	4.54	4.51	4.57	136168	129468	1	50	6808403	5.8
					132563		2	100	13256332	
					132443		3	250	33110802	
					129560		4	500	64779880	
					116603		5	1000	116603488	
	3	4.78	4.75	4.81	115481	113691	1	50	5774056	1.1
					113592		2	100	11359201	
					113145		3	250	28286150	
					114089		4	500	57044488	
					112149		5	1000	112149296	
	4	4.84	4.81	4.87	189210	190063	1	50	9460523	4.9
					191057		2	100	19105652	
					198491		3	250	49622708	
					196600		4	500	98299864	
					174957		5	1000	174957360	
	5	5.02	4.99	5.05	136380	135016	1	50	6819012	3.4
					129997		2	100	12999688	
					136395		3	250	34098860	
					141310		4	500	70655168	
					130999		5	1000	130998992	
	6	5.35	5.32	5.38	143766	146639	1	50	7188321	3.1
					143769		2	100	14376877	
					143816		3	250	35953888	
					154334		4	500	77167168	
					147510		5	1000	147510400	

WASX73 1102

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342B Calibration File: 1P20205B

GC Column (2) : ZBmultiR2 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1260	1	5.21	5.18	5.24	144169	147550	1	50	7208451	3.1
					142877		2	100	14287726	
					147826		3	200	29565136	
					154664		4	500	77331912	
					148214		5	1000	148213888	
	2	5.42	5.39	5.45	58453	58471	1	50	2922640	5.7
					54245		2	100	5424529	
					56207		3	200	11241442	
					61584		4	500	30791776	
					61866		5	1000	61865748	
	3	5.58	5.55	5.61	106471	107252	1	50	5323535	3.9
					100543		2	100	10054349	
					108123		3	200	21624648	
					110066		4	500	55032932	
					111055		5	1000	111055312	
	4	5.66	5.63	5.69	56631	56248	1	50	2831532	5.4
					53120		2	100	5312035	
					53187		3	200	10637364	
					58563		4	500	29281702	
					59736		5	1000	59736436	
	5	5.77	5.74	5.80	242766	249981	1	50	12138322	3.3
					241614		2	100	24161430	
					257935		3	200	51587000	
					258835		4	500	129417440	
					248753		5	1000	248752720	
	6	6.41	6.38	6.44	50527	48928	1	50	2526330	3.9
					46129		2	100	4612859	
					47925		3	200	9584996	
					49294		4	500	24646780	
					50767		5	1000	50767488	
Aroclor-1262	1	5.38	5.35	5.41	170772	170772	1	200	34154324	
	2	5.42	5.39	5.45	73616	73616	1	200	14723117	
	3	5.58	5.55	5.61	161825	161825	1	200	32365010	
	4	5.66	5.63	5.69	66748	66748	1	200	13349523	
	5	5.77	5.74	5.80	339735	339735	1	200	67946920	
	6	6.41	6.38	6.44	89113	89113	1	200	17822622	

ASX73 1193

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342B Calibration File: 1P20205B

GC Column (2) : ZBmultiR2 ID: 30 (mm) Date(s) Analyzed: 7/23/12 7/23/12

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK HEIGHT	%RSD
Aroclor-1268	1	5.99	5.96	6.02	336488	336488	1	200	67297664	
	2	6.03	6.00	6.06	366498	366498	1	200	73299680	
	3	6.19	6.16	6.22	189583	189583	1	200	37916604	
	4	6.26	6.23	6.29	59416	59416	1	200	11883280	
	5	6.41	6.38	6.44	97263	97263	1	200	19452624	
	6	6.62	6.59	6.65	807978	807978	1	200	161595632	

ASX73 1184

File Name: V:\CP20\1p20205b.CAL
Version: 18

Creator:
Description:
Reason for change:

Calibrated By: Jessica L. Miller
Jessica L. Miller
Chemist
JUL 23 2012

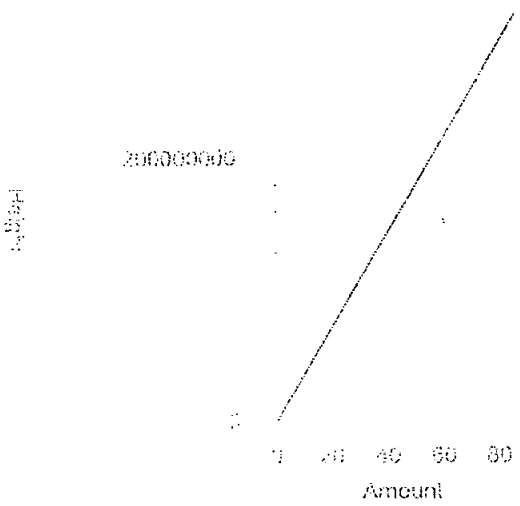
External standard calibration
Standard injection volume: 1
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 50
Amount units: PPB
No default component

Audited By: Lisa A. Reinert
Lisa A. Reinert
Chemist
JUL 23 2012

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:	3.068 minutes
Search window:	0.02 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 = 3608622 X + 0

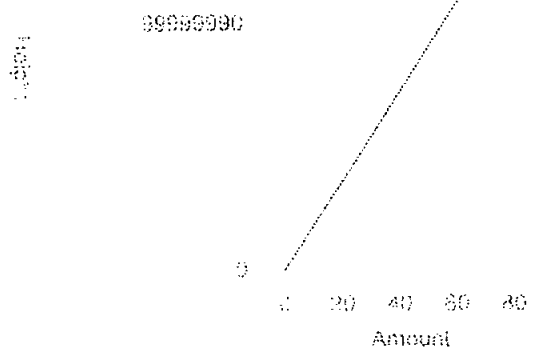
Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9917094
Average error:	4.495%
Average CF:	3608622
RSD:	5.366%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and ti
1	4.126	1.590253E+07	3854225	6.806	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205B.0006.BND	7/23/2012 4
2	20.63	7.77452E+07	3768551	4.432	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205B.0007.BND	7/23/2012 4
3	41.26	1.461699E+08	3542654	-1.828	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205B.0008.BND	7/23/2012 4
4	62.055	2.154E+08	3471114	-3.811	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205B.0009.BND	7/23/2012 4
5	82.52	2.811096E+08	3406564	-5.599	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205B.0010.BND	7/23/2012 4

2 DCB

A5X73 1185



Expected retention time:	6.782 minutes
Search window:	0.02 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 = 1797557 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9940542
Average error:	3.802%
Average CF:	1797557
RSD:	4.903%

Level	Amount	Response	Cal Factor	Error, %	Source	Date
1	4	7141550	1785388	-0.677	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205B.0006.BND	7/23/
2	20	3.350119E+07	1675060	-6.815	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205B.0007.BND	7/23/
3	40	7.045418E+07	1761354	-2.014	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205B.0008.BND	7/23/
4	60.16	1.133915E+08	1884832	4.855	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205B.0009.BND	7/23/
5	80	1.504919E+08	1881149	4.650	\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205B.0010.BND	7/23/

ASX73 1186

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088A
Init. Calib Date(s): 07/08/12 07/08/12
GC Column (1) : RTXCLPI ID: .32 (mm)
Date Analyzed: 07/08/12
Lab File ID: 1P7190.032.RAW
Time Analyzed: 23:25
Lab Standard ID: IC16XNB
Initial Calibration: 1P7190

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.86	3.82	3.88	37.58	41.26	-8.9
Decachlorobiphenyl	9.26	9.23	9.29	40.69	40.00	1.7
Aroclor-1016	4.21	4.17	4.23	203.63	200.20	1.7
	4.67	4.64	4.70			
	4.93	4.89	4.95			
	4.98	4.95	5.01			
	5.06	5.03	5.09			
	5.33	5.29	5.35			
Aroclor-1260	6.32	6.29	6.35	193.25	200.40	-3.6
	6.55	6.52	6.58			
	6.80	6.77	6.83			
	7.07	7.04	7.10			
	7.38	7.35	7.41			
	7.68	7.65	7.71			

Compounds 14

Average of %D: 4.0

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Init. Calib Date(s): 07/08/12 07/08/12
GC Column (2) : RTXCLPII ID: .32 (mm)
Date Analyzed: 07/08/12
Lab File ID: 1P7190B.032.RAW
Time Analyzed: 23:25
Lab Standard ID: IC16XNB
Initial Calibration: 1P7190B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.70	3.66	3.72	42.07	41.26	2.0
Decachlorobiphenyl	8.72	8.68	8.74	37.50	40.00	-6.2
Aroclor-1016	4.08	4.05	4.11	210.09	200.20	4.9
	4.38	4.35	4.41			
	4.55	4.52	4.58			
	4.77	4.74	4.80			
	5.01	4.98	5.04			
	5.30	5.27	5.33			
Aroclor-1260	6.28	6.25	6.31	202.44	200.40	1.0
	6.42	6.39	6.45			
	6.58	6.55	6.61			
	6.79	6.76	6.82			
	7.07	7.04	7.10			
	7.42	7.39	7.45			

Average of %D: 3.5

Compounds 14

FORM VII

ASX73 1199

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088A
Init. Calib Date(s): 07/08/12 07/08/12
GC Column (1) : RTXCLPI ID: .32 (mm)
Date Analyzed: 07/08/12
Lab File ID: 1P7190.033.RAW
Time Analyzed: 23:40
Lab Standard ID: IC48XCC
Initial Calibration: 1P7190

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.86	3.82	3.88	34.30	41.26	-16.9
Decachlorobiphenyl	9.26	9.23	9.29	38.58	40.00	-3.6
Aroclor-1248	4.93	4.90	4.96	197.12	200.00	-1.4
	5.19	5.17	5.23			
	5.33	5.30	5.36			
	5.45	5.42	5.48			
	6.17	6.14	6.20			
	6.43	6.40	6.46			

Compounds 8

Average of %D: 7.3

FORM VII

ASX73 1109

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Init. Calib Date(s): 07/08/12 07/08/12
GC Column (2) : RTXCLPII ID: .32 (mm)
Date Analyzed: 07/08/12
Lab File ID: 1P7190B.033.RAW
Time Analyzed: 23:40
Lab Standard ID: IC48XCC
Initial Calibration: 1P7190B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.70	3.66	3.72	39.82	41.26	-3.5
Decachlorobiphenyl	8.72	8.68	8.74	35.98	40.00	-10.0
Aroclor-1248	4.77	4.74	4.80	203.63	200.00	1.8
	5.01	4.99	5.05			
	5.17	5.14	5.20			
	5.31	5.28	5.34			
	5.99	5.96	6.02			
	6.20	6.17	6.23			

Compounds 8

Average of %D: 5.1

FORM VII

ASX73 1119

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088A
Init. Calib Date(s): 07/08/12 07/08/12
GC Column (1) : RTXCLPI ID: .32 (mm)
Date Analyzed: 07/08/12
Lab File ID: 1P7190.034.RAW
Time Analyzed: 23:55
Lab Standard ID: IC54XAA
Initial Calibration: 1P7190

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.85	3.82	3.88	36.91	41.26	-10.5
Decachlorobiphenyl	9.26	9.23	9.29	39.20	40.00	-2.0
Aroclor-1254	5.85	5.82	5.88	251.97	250.75	0.5
	6.17	6.14	6.20			
	6.42	6.39	6.45			
	6.57	6.54	6.60			
	6.66	6.63	6.69			
	6.79	6.77	6.83			

Compounds 8

Average of %D: 4.3

FORM VII

ASX73 1111

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Init. Calib Date(s): 07/08/12 07/08/12
GC Column (2) : RTXCLPII ID: .32 (mm)
Date Analyzed: 07/08/12
Lab File ID: 1P7190B.034.RAW
Time Analyzed: 23:55
Lab Standard ID: IC54XAA
Initial Calibration: 1P7190B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.69	3.66	3.72	41.08	41.26	-0.4
Decachlorobiphenyl	8.71	8.68	8.74	36.84	40.00	-7.9
Aroclor-1254	5.49	5.46	5.52	259.51	250.75	3.5
	5.99	5.96	6.02			
	6.11	6.08	6.14			
	6.20	6.17	6.23			
	6.41	6.39	6.45			
	6.58	6.55	6.61			

Compounds 8

Average of %D: 3.9

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H5088A Init. Calib Date(s): 07/08/12 07/08/12
GC Column (1) : RTXCLPI ID: .32 (mm) Date Analyzed: 07/20/12
Lab File ID: 9P7190.016.RAW Time Analyzed: 2:16
Lab Standard ID: AR163VY Initial Calibration: 1P7190

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	3.85	3.82	3.88	34.01	41.26	-18
Decachlorobiphenyl	9.25	9.23	9.29	34.79	40.00	-13
Aroclor-1016	4.20	4.17	4.23	177.59	200.00	-11
	4.67	4.64	4.70			
	4.92	4.89	4.95			
	4.98	4.95	5.01			
	5.06	5.03	5.09			
	5.32	5.29	5.35			
Aroclor-1260	6.31	6.29	6.35	173.76	200.00	-13
	6.55	6.52	6.58			
	6.79	6.77	6.83			
	7.06	7.04	7.10			
	7.37	7.35	7.41			
	7.68	7.65	7.71			

Compounds 14 Average of %D: 14

ASX73 1113

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Init. Calib Date(s): 07/08/12 07/08/12

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/12

Lab File ID: 9P7190B.016.RAW Time Analyzed: 2:16

Lab Standard ID: AR163VY Initial Calibration: 1P7190B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	3.69	3.66	3.72	41.17	41.26	0
Decachlorobiphenyl	8.71	8.68	8.74	36.03	40.00	-10
Aroclor-1016	4.08	4.05	4.11	201.88	200.00	1
	4.38	4.35	4.41			
	4.55	4.52	4.58			
	4.77	4.74	4.80			
	5.01	4.98	5.04			
	5.30	5.27	5.33			
Aroclor-1260	6.28	6.25	6.31	197.16	200.00	-1
	6.41	6.39	6.45			
	6.57	6.55	6.61			
	6.78	6.76	6.82			
	7.07	7.04	7.10			
	7.41	7.39	7.45			

Compounds 14 Average of %D: 3

ASX73 1114

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Init. Calib Date(s): 07/08/12 07/08/12

GC Column (1) : RTXCLPI ID: .32 (mm) Date Analyzed: 07/20/12

Lab File ID: 9P7190.022.RAW Time Analyzed: 3:44

Lab Standard ID: AR163VZ Initial Calibration: 1P7190

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	3.85	3.82	3.88	33.58	41.26	-19
Decachlorobiphenyl	9.25	9.23	9.29	35.03	40.00	-12
Aroclor-1016	4.20	4.17	4.23	177.37	200.00	-11
	4.67	4.64	4.70			
	4.92	4.89	4.95			
	4.97	4.95	5.01			
	5.06	5.03	5.09			
	5.32	5.29	5.35			
Aroclor-1260	6.31	6.29	6.35	172.93	200.00	-14
	6.55	6.52	6.58			
	6.79	6.77	6.83			
	7.06	7.04	7.10			
	7.37	7.35	7.41			
	7.68	7.65	7.71			

Compounds 14 Average of %D: 14

ASX73 1115

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Init. Calib Date(s): 07/08/12 07/08/12

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/12

Lab File ID: 9P7190B.022.RAW Time Analyzed: 3:44

Lab Standard ID: AR163VZ Initial Calibration: 1P7190B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	3.69	3.66	3.72	40.86	41.26	-1
Decachlorobiphenyl	8.70	8.68	8.74	36.17	40.00	-10
Aroclor-1016	4.08	4.05	4.11	201.40	200.00	1
	4.37	4.35	4.41			
	4.54	4.52	4.58			
	4.77	4.74	4.80			
	5.01	4.98	5.04			
	5.30	5.27	5.33			
Aroclor-1260	6.28	6.25	6.31	196.78	200.00	-2
	6.41	6.39	6.45			
	6.57	6.55	6.61			
	6.78	6.76	6.82			
	7.07	7.04	7.10			
	7.41	7.39	7.45			

Compounds 14 Average of %D: 4

ASX73 1116

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H5088A Init. Calib Date(s): 07/08/12 07/08/12
GC Column (1) : RTXCLPI ID: .32 (mm) Date Analyzed: 07/20/12
Lab File ID: 9P7190.034.RAW Time Analyzed: 6:40
Lab Standard ID: AR163WA Initial Calibration: 1P7190

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	3.85	3.82	3.88	33.08	41.26	-20
Decachlorobiphenyl	9.25	9.23	9.29	34.67	40.00	-13
Aroclor-1016	4.20	4.17	4.23	170.97	200.00	-15
	4.67	4.64	4.70			
	4.92	4.89	4.95			
	4.97	4.95	5.01			
	5.06	5.03	5.09			
	5.32	5.29	5.35			
Aroclor-1260	6.31	6.29	6.35	172.42	200.00	-14
	6.55	6.52	6.58			
	6.79	6.77	6.83			
	7.06	7.04	7.10			
	7.37	7.35	7.41			
	7.68	7.65	7.71			

Compounds 14 Average of %D: 16

ASX73 1117

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Init. Calib Date(s): 07/08/12 07/08/12

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/20/12

Lab File ID: 9P7190B.034.RAW Time Analyzed: 6:40

Lab Standard ID: AR163WA Initial Calibration: 1P7190B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Tetrachloro-m-xylene	3.69	3.66	3.72	40.77	41.26	-1
Decachlorobiphenyl	8.70	8.68	8.74	36.54	40.00	-9
Aroclor-1016	4.08	4.05	4.11	198.08	200.00	-1
	4.37	4.35	4.41			
	4.54	4.52	4.58			
	4.77	4.74	4.80			
	5.01	4.98	5.04			
	5.30	5.27	5.33			
Aroclor-1260	6.28	6.25	6.31	194.83	200.00	-3
	6.41	6.39	6.45			
	6.57	6.55	6.61			
	6.78	6.76	6.82			
	7.07	7.04	7.10			
	7.41	7.39	7.45			

Compounds 14 Average of %D: 4

ASX73 118

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H5088A Init. Calib Date(s): 07/25/12 07/25/12
GC Column (1) : RTXCLPI ID: .32 (mm) Date Analyzed: 07/25/12
Lab File ID: 1P7207.028.RAW Time Analyzed: 19:02
Lab Standard ID: IC16XAA Initial Calibration: 1P7207

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.79	3.75	3.81	38.24	41.26	-7
Decachlorobiphenyl	9.10	9.06	9.12	39.41	40.00	-1
Aroclor-1016	4.14	4.10	4.16	202.48	200.20	1
	4.60	4.56	4.62			
	4.85	4.82	4.88			
	4.99	4.87	4.93			
	5.25	4.95	5.01			
	5.37	5.33	5.39			
Aroclor-1260	6.23	6.20	6.26	219.34	200.40	9
	6.47	6.44	6.50			
	6.71	6.68	6.74			
	6.98	6.95	7.01			
	7.28	7.25	7.31			
	7.58	7.55	7.61			

Compounds 14 Average of %D: 5

ASX73 119

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Init. Calib Date(s): 07/25/12 07/25/12

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/25/12

Lab File ID: 1P7207B.028.RAW Time Analyzed: 19:02

Lab Standard ID: IC16XAA Initial Calibration: 1P7207B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.63	3.60	3.66	41.61	41.26	1
Decachlorobiphenyl	8.58	8.54	8.60	38.88	40.00	-3
Aroclor-1016	4.01	3.98	4.04	216.16	200.20	8
	4.31	4.28	4.34			
	4.48	4.44	4.50			
	4.70	4.67	4.73			
	4.75	4.72	4.78			
	4.94	4.91	4.97			
Aroclor-1260	6.03	6.00	6.06	215.60	200.40	8
	6.20	6.17	6.23			
	6.34	6.31	6.37			
	6.76	6.73	6.79			
	6.99	6.96	7.02			
	7.32	7.29	7.35			

Compounds 14 Average of %D: 5

ASX73 1129

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088A Init. Calib Date(s): 07/25/12 07/25/12

GC Column (1) : RTXCLPI ID: .32 (mm) Date Analyzed: 07/25/12

Lab File ID: 1P7207.030.RAW Time Analyzed: 19:31

Lab Standard ID: IC54XAA Initial Calibration: 1P7207

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.79	3.75	3.81	36.61	41.26	-11
Decachlorobiphenyl	9.10	9.06	9.12	38.19	40.00	-5
Aroclor-1254	5.77	5.74	5.80	258.85	250.75	3
	6.09	6.05	6.11			
	6.34	6.31	6.37			
	6.49	6.45	6.51			
	6.58	6.55	6.61			
	6.72	6.68	6.74			

Compounds 8 Average of %D: 6

ASX73 1121

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Init. Calib Date(s): 07/25/12 07/25/12

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/25/12

Lab File ID: 1P7207B.030.RAW Time Analyzed: 19:31

Lab Standard ID: IC54XAA Initial Calibration: 1P7207B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.63	3.60	3.66	40.04	41.26	-3
Decachlorobiphenyl	8.58	8.54	8.60	37.53	40.00	-6
Aroclor-1254	5.42	5.39	5.45	254.20	250.75	1
	5.92	5.88	5.94			
	6.13	6.09	6.15			
	6.21	6.17	6.23			
	6.34	6.31	6.37			
	6.50	6.47	6.53			

Compounds 8 Average of %D: 3

ASX73 1122

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H5088A Init. Calib Date(s): 07/25/12 07/25/12
GC Column (1) : RTXCLPI ID: .32 (mm) Date Analyzed: 07/25/12
Lab File ID: 1P7207.031.RAW Time Analyzed: 19:50
Lab Standard ID: IC48XCF Initial Calibration: 1P7207

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.79	3.75	3.81	32.69	41.26	-21
Decachlorobiphenyl	9.11	9.06	9.12	35.46	40.00	-11
Aroclor-1248	4.86	4.82	4.88	185.43	200.00	-7
	5.12	5.08	5.14			
	5.25	5.22	5.28			
	5.37	5.34	5.40			
	5.63	5.60	5.66			
	5.77	5.74	5.80			

Compounds 8 Average of %D: 13

ASX73 1123

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H5088B Init. Calib Date(s): 07/25/12 07/25/12

GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/25/12

Lab File ID: 1P7207B.031.RAW Time Analyzed: 19:50

Lab Standard ID: IC48XCF Initial Calibration: 1P7207B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.63	3.60	3.66	36.55	41.26	-11
Decachlorobiphenyl	8.58	8.54	8.60	35.14	40.00	-12
Aroclor-1248	4.70	4.67	4.73	176.35	200.00	-12
	4.94	4.91	4.97			
	5.10	5.07	5.13			
	5.23	5.20	5.26			
	5.42	5.39	5.45			
	5.61	5.58	5.64			

Compounds 8 Average of %D: 12

ASX73 1124

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H5088A Init. Calib Date(s): 07/25/12 07/25/12
GC Column (1) : RTXCLPI ID: .32 (mm) Date Analyzed: 07/26/12
Lab File ID: 2P7207.010.RAW Time Analyzed: 19:39
Lab Standard ID: AR163YP Initial Calibration: 1P7207

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.79	3.75	3.81	40.72	41.26	-1
Decachlorobiphenyl	9:10	9.06	9.12	41.62	40.00	4
Aroclor-1016	4.14	4.10	4.16	208.07	200.00	4
	4.60	4.56	4.62			
	4.85	4.82	4.88			
	4.99	4.95	5.01			
	5.25	5.22	5.28			
	5.37	5.33	5.39			
Aroclor-1260	6.23	6.20	6.26	221.11	200.00	11
	6.47	6.44	6.50			
	6.71	6.68	6.74			
	6.98	6.95	7.01			
	7.28	7.25	7.31			
	7.58	7.55	7.61			

Compounds 14 Average of %D: 5

ASX73 1125

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H5088B
Init. Calib Date(s): 07/25/12 07/25/12
GC Column (2) : RTXCLPII ID: .32 (mm)
Date Analyzed: 07/26/12
Lab File ID: 2P7207B.010.RAW
Time Analyzed: 19:39
Lab Standard ID: AR163YP
Initial Calibration: 1P7207B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.63	3.60	3.66	46.59	41.26	13
Decachlorobiphenyl	8.57	8.54	8.60	42.49	40.00	6
Aroclor-1016	4.01	3.98	4.04	226.84	200.00	13
	4.31	4.28	4.34			
	4.48	4.44	4.50			
	4.70	4.67	4.73			
	4.75	4.72	4.78			
	4.94	4.91	4.97			
Aroclor-1260	6.03	6.00	6.06	228.50	200.00	14
	6.20	6.17	6.23			
	6.34	6.31	6.37			
	6.76	6.73	6.79			
	6.99	6.96	7.02			
	7.32	7.29	7.35			

Compounds 14
Average of %D: 12

FORM VII

ASX73 1126

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H5088A Init. Calib Date(s): 07/25/12 07/25/12
GC Column (1) : RTXCLPI ID: .32 (mm) Date Analyzed: 07/26/12
Lab File ID: 2P7207.019.RAW Time Analyzed: 21:53
Lab Standard ID: AR163YQ Initial Calibration: 1P7207

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.79	3.75	3.81	35.49	41.26	-14
Decachlorobiphenyl	9.09	9.06	9.12	36.58	40.00	-9
Aroclor-1016	4.13	4.10	4.16	183.57	200.00	-8
	4.60	4.56	4.62			
	4.85	4.82	4.88			
	4.98	4.95	5.01			
	5.25	5.22	5.28			
	5.36	5.33	5.39			
Aroclor-1260	6.23	6.20	6.26	199.15	200.00	0
	6.47	6.44	6.50			
	6.71	6.68	6.74			
	6.98	6.95	7.01			
	7.28	7.25	7.31			
	7.57	7.55	7.61			

Compounds 14 Average of %D: 8

ASX73 1127

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H5088B Init. Calib Date(s): 07/25/12 07/25/12
GC Column (2) : RTXCLPII ID: .32 (mm) Date Analyzed: 07/26/12
Lab File ID: 2P7207B.019.RAW Time Analyzed: 21:53
Lab Standard ID: AR163YQ Initial Calibration: 1P7207B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.63	3.60	3.66	40.40	41.26	-2
Decachlorobiphenyl	8.57	8.54	8.60	37.09	40.00	-7
Aroclor-1016	4.01	3.98	4.04	197.69	200.00	-1
	4.31	4.28	4.34			
	4.48	4.44	4.50			
	4.70	4.67	4.73			
	4.75	4.72	4.78			
	4.94	4.91	4.97			
Aroclor-1260	6.03	6.00	6.06	201.99	200.00	1
	6.20	6.17	6.23			
	6.33	6.31	6.37			
	6.76	6.73	6.79			
	6.99	6.96	7.02			
	7.32	7.29	7.35			

Compounds 14 Average of %D: 3

ASX73 1129

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342A Init. Calib Date(s): 07/23/12 07/23/12

GC Column (1) : ZBmultiR1 ID: 30 (mm) Date Analyzed: 07/23/12

Lab File ID: 1P20205.0028.RAW Time Analyzed: 17:07

Lab Standard ID: IC16XAA Initial Calibration: 1P20205

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.31	3.29	3.33	40.82	41.26	-1
Decachlorobiphenyl	7.20	7.18	7.22	39.58	40.00	-1
Aroclor-1016	3.57	3.54	3.60	222.50	200.20	11
	3.92	3.89	3.95			
	4.16	4.13	4.19			
	4.23	4.20	4.26			
	4.30	4.27	4.33			
	4.44	4.41	4.47			
Aroclor-1260	5.49	5.46	5.52	214.60	200.40	7
	5.58	5.55	5.61			
	5.70	5.67	5.73			
	5.76	5.73	5.79			
	6.16	6.14	6.20			
	6.37	6.34	6.40			

Compounds 14 Average of %D: 5

ASX73 1129

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 17342B
Init. Calib Date(s): 07/23/12 07/23/12
GC Column (2) : ZBmultiR2 ID: 30 (mm)
Date Analyzed: 07/23/12
Lab File ID: 1P20205B.0028.RAW
Time Analyzed: 17:07
Lab Standard ID: IC16XAA
Initial Calibration: 1P20205B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.07	3.05	3.09	43.28	41.26	5
Decachlorobiphenyl	6.78	6.76	6.80	43.11	40.00	8
Aroclor-1016	3.36	3.33	3.39	212.18	200.20	6
	3.70	3.67	3.73			
	3.91	3.88	3.94			
	3.99	3.96	4.02			
	4.18	4.15	4.21			
	4.28	4.25	4.31			
Aroclor-1260	5.21	5.18	5.24	218.57	200.40	9
	5.42	5.39	5.45			
	5.58	5.55	5.61			
	5.65	5.63	5.69			
	5.77	5.74	5.80			
	6.41	6.38	6.44			

Compounds 14
Average of %D: 7

FORM VII

ASX73 1136

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 17342A
Init. Calib Date(s): 07/23/12 07/23/12
GC Column (1) : ZBmultiR1 ID: 30 (mm)
Date Analyzed: 07/23/12
Lab File ID: 1P20205.0029.RAW
Time Analyzed: 17:19
Lab Standard ID: IC48XAA
Initial Calibration: 1P20205

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.31	3.29	3.33	34.97	41.26	-15
Decachlorobiphenyl	7.19	7.18	7.22	37.40	40.00	-7
Aroclor-1248	4.22	4.20	4.26	208.90 ~~217.83~~ (3)	200.00	~~-9~~ (3) 4
	4.44	4.41	4.47			
	4.54	4.51	4.57			
	4.73	4.71	4.77			
	4.88	4.85	4.91			
	5.16	5.13	5.19			

Compounds 8

Average of %D: ~~10~~ 9 (2)

(3) Jessica L. Miller
Jessica L. Miller
Chemist

JUL 23 2012

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 17342B
Init. Calib Date(s): 07/23/12 07/23/12
GC Column (2) : ZBmultiR2 ID: 30 (mm)
Date Analyzed: 07/23/12
Lab File ID: 1P20205B.0029.RAW
Time Analyzed: 17:19
Lab Standard ID: IC48XAA
Initial Calibration: 1P20205B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.07	3.05	3.09	37.89	41.26	-8
Decachlorobiphenyl	6.78	6.76	6.80	38.52	40.00	-4
Aroclor-1248	4.03	4.00	4.06	180.16 ~~174.74~~ (3)	200.00	~~-13~~ (3) -10
	4.17	4.15	4.21			
	4.28	4.25	4.31			
	4.43	4.40	4.46			
	4.59	4.56	4.62			
	4.84	4.82	4.88			

Compounds 8

Average of %D: ~~-8~~ (3) 7

Jessica L. Miller
Chemist

JUL 23 2012

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342A Init. Calib Date(s): 07/23/12 07/23/12

GC Column (1) : ZBmultiR1 ID: 30 (mm) Date Analyzed: 07/23/12

Lab File ID: 1P20205.0030.RAW Time Analyzed: 17:30

Lab Standard ID: IC54XAA Initial Calibration: 1P20205

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.31	3.29	3.33	43.42	41.26	5
Decachlorobiphenyl	7.20	7.18	7.22	40.07	40.00	0
Aroclor-1254	4.27	4.27	4.33	246.80 ~~211.64~~ (3)	250.75	~~16~~ (3) -2
	5.09	5.07	5.13			
	5.16	5.13	5.19			
	5.38	5.35	5.41			
	5.58	5.56	5.62			
	5.70	5.67	5.73			

Compounds 8 Average of %D: ~~7~~ (3) 2

(3) Jessica L. Miller
Jessica L. Miller
Chemist

JUL 23 2012

ASX73 1133

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342B Init. Calib Date(s): 07/23/12 07/23/12

GC Column (2) : ZBmultiR2 ID: 30 (mm) Date Analyzed: 07/23/12

Lab File ID: 1P20205B.0030.RAW Time Analyzed: 17:30

Lab Standard ID: IC54XAA Initial Calibration: 1P20205B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.07	3.05	3.09	43.32	41.26	5
Decachlorobiphenyl	6.78	6.76	6.80	41.83	40.00	5
Aroclor-1254	4.43	4.40	4.46	2 ~~233.83~~	250.75	-7 7
	4.54	4.51	4.57	229.16		
	4.77	4.75	4.81			
	4.84	4.81	4.87			
	5.02	4.99	5.05			
	5.35	5.32	5.38			

Compounds 8 Average of %D: ~~8~~ 6

Jessica L. Miller
Chemist

JUL 23 2012

ASX73 1134

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342A Init. Calib Date(s): 07/23/12 07/23/12

GC Column (1) : ZBmultiR1 ID: 30 (mm) Date Analyzed: 07/24/12

Lab File ID: 3P20205.0005.RAW Time Analyzed: 23:10

Lab Standard ID: AR163XL Initial Calibration: 1P20205

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.31	3.29	3.33	47.06	41.26	14
Decachlorobiphenyl	7.20	7.18	7.22	40.40	40.00	1
Aroclor-1016	3.56	3.54	3.60	232.5 ~~234.37~~	200.00	~~17~~ 16.2
	3.92	3.89	3.95			
	4.16	4.13	4.19			
	4.23	4.20	4.26			
	4.33	4.27	4.33			
	4.44	4.41	4.47			
Aroclor-1260	5.49	5.46	5.52	238.24	200.00	19
	5.58	5.55	5.61			
	5.70	5.67	5.73			
	5.76	5.73	5.79			
	6.16	6.14	6.20			
	6.37	6.34	6.40			

Compounds 14 Average of %D: ~~13~~ 12.5

HB 7/25-12

ASX73 1135

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: 17342B Init. Calib Date(s): 07/23/12 07/23/12
GC Column (2) : ZBmultiR2 ID: 30 (mm) Date Analyzed: 07/24/12
Lab File ID: 3P20205B.0005.RAW Time Analyzed: 23:10
Lab Standard ID: AR163XL Initial Calibration: 1P20205B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.07	3.05	3.09	44.81	41.26	9
Decachlorobiphenyl	6.78	6.76	6.80	40.25	40.00	1
Aroclor-1016	3.36	3.33	3.39	227.15	200.00	14
	3.70	3.67	3.73			
	3.91	3.88	3.94			
	3.99	3.96	4.02			
	4.17	4.15	4.21			
	4.28	4.25	4.31			
Aroclor-1260	5.21	5.18	5.24	265.33	200.00	33
	5.42	5.39	5.45			
	5.58	5.55	5.61			
	5.65	5.63	5.69			
	5.76	5.74	5.80			
	6.41	6.38	6.44			

Compounds 14 Average of %D: 14

ASX73 1136

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: 17342A Init. Calib Date(s): 07/23/12 07/23/12
GC Column (1) : ZBmultiR1 ID: 30 (mm) Date Analyzed: 07/25/12
Lab File ID: 3P20205.0012.RAW Time Analyzed: 0:30
Lab Standard ID: AR163XM Initial Calibration: 1P20205

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.31	3.29	3.33	46.76	41.26	13
Decachlorobiphenyl	7.20	7.18	7.22	39.68	40.00	-1
Aroclor-1016	3.57	3.54	3.60	245.91	200.00	23
	3.92	3.89	3.95			
	4.16	4.13	4.19			
	4.23	4.20	4.26			
	4.30	4.27	4.33			
	4.44	4.41	4.47			
Aroclor-1260	5.49	5.46	5.52	244.27	200.00	22
	5.58	5.55	5.61			
	5.70	5.67	5.73			
	5.76	5.73	5.79			
	6.16	6.14	6.20			
	6.37	6.34	6.40			

Compounds 14 Average of %D: 15

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 17342B Init. Calib Date(s): 07/23/12 07/23/12

GC Column (2) : ZBmultiR2 ID: 30 (mm) Date Analyzed: 07/25/12

Lab File ID: 3P20205B.0012.RAW Time Analyzed: 0:30

Lab Standard ID: AR163XM Initial Calibration: 1P20205B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT	NOM AMOUNT	%D
Tetrachloro-m-xylene	3.07	3.05	3.09	45.98	41.26	11
Decachlorobiphenyl	6.78	6.76	6.80	42.54	40.00	6
Aroclor-1016	3.36	3.33	3.39	235.84	200.00	18
	3.70	3.67	3.73			
	3.91	3.88	3.94			
	3.99	3.96	4.02			
	4.17	4.15	4.21			
	4.28	4.25	4.31			
Aroclor-1260	5.21	5.18	5.24	268.11	200.00	34
	5.42	5.39	5.45			
	5.58	5.55	5.61			
	5.65	5.63	5.69			
	5.76	5.74	5.80			
	6.41	6.38	6.44			

Compounds 14 Average of %D: 17

ASX73 1158

8D
ANALYTICAL SEQUENCE

Sequence: 1P7190 Lab Name: Lancaster laboratories Contract:

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

GC Column: RTXCLPI ID: 0.32

Instrument: H5088A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	07/08/2012	15:40:12	1P7190
002		CONDITIONER	07/08/2012	15:54:59	1P7190
003		CONDITIONER	07/08/2012	16:09:42	1P7190
004		CONDITIONER	07/08/2012	16:24:27	1P7190
005	PIBLKAA	IBLKX1224C	07/08/2012	16:39:13	1P7190
006	AR161AA	AR1611224B	07/08/2012	16:53:59	1P7190
007	AR162AA	AR1621224B	07/08/2012	17:08:31	1P7190
008	AR163AA	AR1631224B	07/08/2012	17:23:16	1P7190
009	AR164AA	AR1641224B	07/08/2012	17:37:47	1P7190
010	AR165AA	AR1651224B	07/08/2012	17:52:35	1P7190
011	AR481AA	AR4811224A	07/08/2012	18:07:08	1P7190
012	AR482AA	AR4821224A	07/08/2012	18:21:54	1P7190
013	AR483AA	AR4831224A	07/08/2012	18:42:02	1P7190
014	AR481AA	AR4811224A	07/08/2012	18:56:49	1P7190
015	AR484AA	AR4841224A	07/08/2012	19:11:34	1P7190
016	AR485AA	AR4851224A	07/08/2012	19:26:11	1P7190
017	AR541AA	AR5411224A	07/08/2012	19:40:43	1P7190
018	AR542AA	AR5421224A	07/08/2012	19:55:17	1P7190
019	AR543AA	AR5431224A	07/08/2012	20:09:48	1P7190
020	AR544AA	AR5441224A	07/08/2012	20:24:23	1P7190
021	AR545AA	AR5451224A	07/08/2012	20:38:57	1P7190
022	AR623AA	AR6231224A	07/08/2012	20:53:31	1P7190
023	AR683AA	AR6831224A	07/08/2012	21:08:03	1P7190
024	AR213AA	AR2131224A	07/08/2012	21:22:36	1P7190
025	AR32XAA	AR32X1224B	07/08/2012	21:39:11	1P7190
026	AR423AA	AR4231224A	07/08/2012	21:53:46	1P7190
027	AR16XAA	AR16XX1224B	07/08/2012	22:08:19	1P7190
028	MD16XAA	MD16X1224B	07/08/2012	22:22:54	1P7190
029	IC16XAA	IC16X1224B	07/08/2012	22:37:25	1P7190
030	IC48XAA	IC48X1224A	07/08/2012	22:52:12	1P7190
031	IC16XNB	IC16X1224B	07/08/2012	23:25:55	1P7190
032	IC48XCC	IC48X1224A	07/08/2012	23:40:38	1P7190
033	IC54XAA	IC54X1224A	07/08/2012	23:55:22	1P7190

8D
ANALYTICAL SEQUENCE

Sequence: 1P7190B
Lab Name: Lancaster laboratories
Contract:
Lab Code:
Case No.:
SAS No:
SDG No.:
GC Column: RTXCLPII
ID: 0.32
Instrument: H5088B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	07/08/2012	15:40:12	1P7190B
002		CONDITIONER	07/08/2012	15:54:59	1P7190B
003		CONDITIONER	07/08/2012	16:09:42	1P7190B
004		CONDITIONER	07/08/2012	16:24:27	1P7190B
005	PIBLKAA	IBLKX1224C	07/08/2012	16:39:13	1P7190B
006	AR161AA	AR1611224B	07/08/2012	16:53:59	1P7190B
007	AR162AA	AR1621224B	07/08/2012	17:08:31	1P7190B
008	AR163AA	AR1631224B	07/08/2012	17:23:16	1P7190B
009	AR164AA	AR1641224B	07/08/2012	17:37:47	1P7190B
010	AR165AA	AR1651224B	07/08/2012	17:52:35	1P7190B
011	AR481AA	AR4811224A	07/08/2012	18:07:08	1P7190B
012	AR482AA	AR4821224A	07/08/2012	18:21:54	1P7190B
013	AR483AA	AR4831224A	07/08/2012	18:42:02	1P7190B
014	AR481AA	AR4811224A	07/08/2012	18:56:49	1P7190B
015	AR484AA	AR4841224A	07/08/2012	19:11:34	1P7190B
016	AR485AA	AR4851224A	07/08/2012	19:26:11	1P7190B
017	AR541AA	AR5411224A	07/08/2012	19:40:43	1P7190B
018	AR542AA	AR5421224A	07/08/2012	19:55:17	1P7190B
019	AR543AA	AR5431224A	07/08/2012	20:09:48	1P7190B
020	AR544AA	AR5441224A	07/08/2012	20:24:23	1P7190B
021	AR545AA	AR5451224A	07/08/2012	20:38:57	1P7190B
022	AR623AA	AR6231224A	07/08/2012	20:53:31	1P7190B
023	AR683AA	AR6831224A	07/08/2012	21:08:03	1P7190B
024	AR213AA	AR2131224A	07/08/2012	21:22:36	1P7190B
025	AR32XAA	AR32X1224B	07/08/2012	21:39:11	1P7190B
026	AR423AA	AR4231224A	07/08/2012	21:53:46	1P7190B
027	AR16XAA	AR16XX1224B	07/08/2012	22:08:19	1P7190B
028	MD16XAA	MD16X1224B	07/08/2012	22:22:54	1P7190B
029	IC16XAA	IC16X1224B	07/08/2012	22:37:25	1P7190B
030	IC48XAA	IC48X1224A	07/08/2012	22:52:12	1P7190B
031	IC16XNB	IC16X1224B	07/08/2012	23:25:55	1P7190B
032	IC48XCC	IC48X1224A	07/08/2012	23:40:38	1P7190B
033	IC54XAA	IC54X1224A	07/08/2012	23:55:22	1P7190B

8D
ANALYTICAL SEQUENCE

Sequence: 9P7190 Lab Name: Lancaster laboratories Contract:

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

GC Column: RTXCLPI ID: 0.32

Instrument: H5088A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/19/2012	22:35:20	1P7190	3.86	9.27
002		CONDITIONER	07/19/2012	22:50:08	1P7190	3.85	9.25
003		CONDITIONER	07/19/2012	23:04:53	1P7190	3.86	9.26
004		CONDITIONER	07/19/2012	23:19:42	1P7190	3.85	9.25
005	AR163VX	AR1631224B	07/19/2012	23:34:17	1P7190	3.86	9.25
006	PIBLKNV	IBLKX1224C	07/19/2012	23:49:07	1P7190	3.86	9.25
007	PBLK23200	BLANKA	07/20/2012	00:03:42	1P7190	3.85	9.25
008	LCS23200	LCSA	07/20/2012	00:18:30	1P7190	3.85	9.25
009	LCSD23200	LCSDA	07/20/2012	00:33:03	1P7190	3.86	9.25
010	WEST-	6721477	07/20/2012	00:47:52	1P7190	3.85	9.25
011	PBLK21200	BLANKA	07/20/2012	01:02:39	1P7190	3.85	9.25
012	LCS21200	LCSA	07/20/2012	01:17:14	1P7190	3.85	9.25
013	LCSD21200	LCSDA	07/20/2012	01:31:59	1P7190	3.85	9.25
014	GRF16	6722557	07/20/2012	01:46:45	1P7190	3.86	9.25
015		CONDITIONER	07/20/2012	02:01:31	1P7190		
016	AR163VY	AR1631224B	07/20/2012	02:16:09	1P7190	3.85	9.25
017	PIBLKNW	IBLKX1224C	07/20/2012	02:30:44	1P7190	3.86	9.25
018	PBLK13199	BLANKA	07/20/2012	02:45:19	1P7190	3.85	9.25
019	LCS13199	LCSA	07/20/2012	02:59:52	1P7190	3.86	9.26
020	LCSD13199	LCSDA	07/20/2012	03:14:39	1P7190	3.85	9.25
021	EB713	6721504	07/20/2012	03:29:24	1P7190	3.85	9.25
022	AR163VZ	AR1631224B	07/20/2012	03:44:12	1P7190	3.85	9.25
023	PIBLKNX	IBLKX1224C	07/20/2012	03:58:54	1P7190	3.86	9.25
024	PBLK24199	BLANKA	07/20/2012	04:13:38	1P7190	3.85	9.25
025	LCS24199	LCSA	07/20/2012	04:28:08	1P7190	3.85	9.25
026	49--0	6721494	07/20/2012	04:42:52	1P7190	3.86	
027	49--0MS	6721494	07/20/2012	04:57:34	1P7190	3.85	
028	49--0MSD	6721494	07/20/2012	05:12:19	1P7190	3.85	
029	49--2	6721495	07/20/2012	05:27:02	1P7190	3.85	
030	49--4	6721496	07/20/2012	05:41:46	1P7190	3.85	9.25
031	32--0	6721499	07/20/2012	05:56:33	1P7190	3.85	9.25
032	32--2	6721500	07/20/2012	06:11:19	1P7190	3.85	9.25
033	32--4	6721501	07/20/2012	06:26:00	1P7190	3.85	9.25

	ICAL Dates		ICAL RT	QC Limits
1P7190	07/08/2012 - 07/08/2012	TCX = Tetrachloro-m-xylene	3.85	(3.82 - 3.88 Minutes)
		DCB = Decachlorobiphenyl	9.26	(9.23 - 9.29 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 9P7190 Lab Name: Lancaster laboratories Contract:

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

GC Column: RTXCLPI ID: 0.32

Instrument: H5088A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034	AR163WA	AR1631224B	07/20/2012	06:40:30	1P7190	3.85	9.25
035	PIBLKNY	IBLKX1224C	07/20/2012	06:54:59	1P7190	3.85	9.25
036	PBLK27198	BLANKA	07/20/2012	07:09:46	1P7190	3.85	9.25
037	LCS27198	LCSA	07/20/2012	07:24:19	1P7190	3.85	9.25
038	GR1-4	6719303	07/20/2012	07:39:03	1P7190	3.85	
039	GR2-0	6719304	07/20/2012	07:53:45	1P7190	3.85	
040	GR2-1	6719305	07/20/2012	08:08:20	1P7190	3.85	
041	GR2-2	6719306	07/20/2012	08:22:54	1P7190	3.85	
042		CONDITIONER	07/20/2012	08:37:42	1P7190		
043	GR2-3	6719307	07/20/2012	08:52:26	1P7190	3.87	9.27
044	GR9-0	6719308	07/20/2012	09:07:08	1P7190	3.86	9.27
045	GR9-1	6719309	07/20/2012	09:21:49	1P7190	3.85	9.26
046	GR9-3	6719310	07/20/2012	09:36:36	1P7190	3.86	9.26
047	GR9-3	6719311	07/20/2012	09:51:20	1P7190	3.86	9.26
048	GR9-3	6719312	07/20/2012	10:06:05	1P7190	3.86	9.26
049	GR5-2	6719314	07/20/2012	10:20:48	1P7190	3.86	9.26
050	GR5-0	6719315	07/20/2012	10:35:32	1P7190	3.85	
051	GR5-1	6719316	07/20/2012	10:50:19	1P7190	3.86	
052	GR5-4	6719317	07/20/2012	11:04:54	1P7190	3.86	9.27
053	GR1-1	6719318	07/20/2012	11:19:28	1P7190	3.86	
054		CONDITIONER	07/20/2012	11:34:00	1P7190		9.24
055		CONDITIONER	07/20/2012	11:48:31	1P7190		
056	AR163WB	AR1631224B	07/20/2012	12:03:09	1P7190	3.86	9.26
057	PIBLKNZ	IBLKX1224C	07/20/2012	12:17:41	1P7190	3.86	9.25

	ICAL Dates		ICAL RT	QC Limits
1P7190	07/08/2012 - 07/08/2012	TCX = Tetrachloro-m-xylene	3.85	(3.82 - 3.88 Minutes)
		DCB = Decachlorobiphenyl	9.26	(9.23 - 9.29 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 9P7190B Lab Name: Lancaster laboratories Contract:

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

GC Column: RTXCLPII ID: 0.32

Instrument: H5088B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/19/2012	22:35:20	1P7190B	3.70	8.72
002		CONDITIONER	07/19/2012	22:50:08	1P7190B	3.69	8.71
003		CONDITIONER	07/19/2012	23:04:53	1P7190B	3.69	8.71
004		CONDITIONER	07/19/2012	23:19:42	1P7190B	3.69	8.70
005	AR163VX	AR1631224B	07/19/2012	23:34:17	1P7190B	3.69	8.71
006	PIBLKNV	IBLKX1224C	07/19/2012	23:49:07	1P7190B	3.70	8.71
007	PBLK23200	BLANKA	07/20/2012	00:03:42	1P7190B	3.69	8.71
008	LCS23200	LCSA	07/20/2012	00:18:30	1P7190B	3.69	8.71
009	LCSD23200	LCSDA	07/20/2012	00:33:03	1P7190B	3.70	8.71
010	WEST-	6721477	07/20/2012	00:47:52	1P7190B	3.69	8.70
011	PBLK21200	BLANKA	07/20/2012	01:02:39	1P7190B	3.69	8.70
012	LCS21200	LCSA	07/20/2012	01:17:14	1P7190B	3.69	8.71
013	LCSD21200	LCSDA	07/20/2012	01:31:59	1P7190B	3.69	8.71
014	GRF16	6722557	07/20/2012	01:46:45	1P7190B	3.70	8.71
015		CONDITIONER	07/20/2012	02:01:31	1P7190B		
016	AR163VY	AR1631224B	07/20/2012	02:16:09	1P7190B	3.69	8.71
017	PIBLKNW	IBLKX1224C	07/20/2012	02:30:44	1P7190B	3.70	8.71
018	PBLK13199	BLANKA	07/20/2012	02:45:19	1P7190B	3.69	8.70
019	LCS13199	LCSA	07/20/2012	02:59:52	1P7190B	3.70	8.71
020	LCSD13199	LCSDA	07/20/2012	03:14:39	1P7190B	3.69	8.70
021	EB713	6721504	07/20/2012	03:29:24	1P7190B	3.69	8.70
022	AR163VZ	AR1631224B	07/20/2012	03:44:12	1P7190B	3.69	8.70
023	PIBLKNX	IBLKX1224C	07/20/2012	03:58:54	1P7190B	3.70	8.71
024	PBLK24199	BLANKA	07/20/2012	04:13:38	1P7190B	3.69	8.70
025	LCS24199	LCSA	07/20/2012	04:28:08	1P7190B	3.69	8.71
026	49--0	6721494	07/20/2012	04:42:52	1P7190B	3.69	8.71
027	49--0MS	6721494	07/20/2012	04:57:34	1P7190B	3.69	8.70
028	49--0MSD	6721494	07/20/2012	05:12:19	1P7190B	3.69	8.71
029	49--2	6721495	07/20/2012	05:27:02	1P7190B	3.69	8.70
030	49--4	6721496	07/20/2012	05:41:46	1P7190B	3.69	8.70
031	32--0	6721499	07/20/2012	05:56:33	1P7190B	3.69	8.71
032	32--2	6721500	07/20/2012	06:11:19	1P7190B	3.69	8.70
033	32--4	6721501	07/20/2012	06:26:00	1P7190B	3.69	8.70

	ICAL Dates		ICAL RT	QC Limits
1P7190B	07/08/2012 - 07/08/2012	TCX = Tetrachloro-m-xylene	3.69	(3.66 - 3.72 Minutes)
		DCB = Decachlorobiphenyl	8.71	(8.68 - 8.74 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 9P7190B Lab Name: Lancaster laboratories Contract:

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

GC Column: RTXCLPII ID: 0.32

Instrument: H5088B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034	AR163WA	AR1631224B	07/20/2012	06:40:30	1P7190B	3.69	8.70
035	PIBLKNY	IBLKX1224C	07/20/2012	06:54:59	1P7190B	3.69	8.71
036	PBLK27198	BLANKA	07/20/2012	07:09:46	1P7190B	3.69	8.70
037	LCS27198	LCSA	07/20/2012	07:24:19	1P7190B	3.70	8.71
038	GR1-4	6719303	07/20/2012	07:39:03	1P7190B	3.69	8.71
039	GR2-0	6719304	07/20/2012	07:53:45	1P7190B	3.69	8.71
040	GR2-1	6719305	07/20/2012	08:08:20	1P7190B	3.68	8.70
041	GR2-2	6719306	07/20/2012	08:22:54	1P7190B	3.69	8.71
042		CONDITIONER	07/20/2012	08:37:42	1P7190B	3.67	
043	GR2-3	6719307	07/20/2012	08:52:26	1P7190B		8.72
044	GR9-0	6719308	07/20/2012	09:07:08	1P7190B		8.71
045	GR9-1	6719309	07/20/2012	09:21:49	1P7190B	3.69	8.71
046	GR9-3	6719310	07/20/2012	09:36:36	1P7190B	3.70	8.71
047	GR9-3	6719311	07/20/2012	09:51:20	1P7190B	3.70	8.71
048	GR9-3	6719312	07/20/2012	10:06:05	1P7190B	3.70	8.71
049	GR5-2	6719314	07/20/2012	10:20:48	1P7190B	3.70	8.71
050	GR5-0	6719315	07/20/2012	10:35:32	1P7190B	3.69	8.71
051	GR5-1	6719316	07/20/2012	10:50:19	1P7190B	3.69	8.71
052	GR5-4	6719317	07/20/2012	11:04:54	1P7190B	3.70	8.72
053	GR1-1	6719318	07/20/2012	11:19:28	1P7190B	3.70	8.71
054		CONDITIONER	07/20/2012	11:34:00	1P7190B		
055		CONDITIONER	07/20/2012	11:48:31	1P7190B		
056	AR163WB	AR1631224B	07/20/2012	12:03:09	1P7190B	3.70	8.71
057	PIBLKNZ	IBLKX1224C	07/20/2012	12:17:41	1P7190B	3.70	8.71

	ICAL Dates		ICAL RT	QC Limits
1P7190B	07/08/2012 - 07/08/2012	TCX = Tetrachloro-m-xylene	3.69	(3.66 - 3.72 Minutes)
		DCB = Decachlorobiphenyl	8.71	(8.68 - 8.74 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 1P7207 Lab Name: Lancaster laboratories Contract:

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

GC Column: RTXCLPI ID: 0.32

Instrument: H5088A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	07/25/2012	12:16:18	1P7205
002		CONDITIONER	07/25/2012	12:31:03	1P7205
003		CONDITIONER	07/25/2012	12:45:44	1P7205
004		CONDITIONER	07/25/2012	13:00:29	1P7205
005	PIBLKAA	IBLKX1224C	07/25/2012	13:15:13	1P7207
006	AR161AA	AR1611224B	07/25/2012	13:30:03	1P7207
007	AR162AA	AR1621224B	07/25/2012	13:44:51	1P7207
008	AR163AA	AR1631224B	07/25/2012	13:59:37	1P7207
009	AR164AA	AR1641224B	07/25/2012	14:14:21	1P7207
010	AR165AA	AR1651224B	07/25/2012	14:29:11	1P7207
011	AR481AA	AR4811224A	07/25/2012	14:43:57	1P7207
012	AR482AA	AR4821224A	07/25/2012	14:58:42	1P7207
013	AR483AA	AR4831224A	07/25/2012	15:13:25	1P7207
014	AR484AA	AR4841224A	07/25/2012	15:28:11	1P7207
015	AR485AA	AR4851224A	07/25/2012	15:42:55	1P7207
016	AR541AA	AR5411224A	07/25/2012	15:57:44	1P7207
017	AR542AA	AR5421224A	07/25/2012	16:12:27	1P7207
018	AR543AA	AR5431224A	07/25/2012	16:27:13	1P7207
019	AR544AA	AR5441224A	07/25/2012	16:48:25	1P7207
020	AR545AA	AR5451224A	07/25/2012	17:03:12	1P7207
021	AR623AA	AR6231224B	07/25/2012	17:17:59	1P7207
022	AR683AA	AR6831224B	07/25/2012	17:32:37	1P7207
023	AR213AA	AR2131224A	07/25/2012	17:47:09	1P7207
024	AR32XAA	AR32X1224B	07/25/2012	18:01:43	1P7207
025	AR423AA	AR4231224A	07/25/2012	18:16:17	1P7207
026	AR16XAA	AR16XX1224B	07/25/2012	18:33:20	1P7207
027	MD16XAA	MD16X1224B	07/25/2012	18:48:05	1P7207
028	IC16XAA	IC16X1224B	07/25/2012	19:02:47	1P7207
029	IC48XAA	IC48X1224A	07/25/2012	19:17:13	1P7207
030	IC54XAA	IC54X1224A	07/25/2012	19:31:44	1P7207
031	IC48XCF	IC48X1224A	07/25/2012	19:50:14	1P7207

8D
ANALYTICAL SEQUENCE

Sequence: 1P7207B | Lab Name: Lancaster laboratories | Contract:

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

GC Column: RTXCLPII | ID: 0.32

Instrument: H5088B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	07/25/2012	12:16:18	1P7205B
002		CONDITIONER	07/25/2012	12:31:03	1P7205B
003		CONDITIONER	07/25/2012	12:45:44	1P7205B
004		CONDITIONER	07/25/2012	13:00:29	1P7205B
005	PIBLKAA	IBLKX1224C	07/25/2012	13:15:13	1P7207B
006	AR161AA	AR1611224B	07/25/2012	13:30:03	1P7207B
007	AR162AA	AR1621224B	07/25/2012	13:44:51	1P7207B
008	AR163AA	AR1631224B	07/25/2012	13:59:37	1P7207B
009	AR164AA	AR1641224B	07/25/2012	14:14:21	1P7207B
010	AR165AA	AR1651224B	07/25/2012	14:29:11	1P7207B
011	AR481AA	AR4811224A	07/25/2012	14:43:57	1P7207B
012	AR482AA	AR4821224A	07/25/2012	14:58:42	1P7207B
013	AR483AA	AR4831224A	07/25/2012	15:13:25	1P7207B
014	AR484AA	AR4841224A	07/25/2012	15:28:11	1P7207B
015	AR485AA	AR4851224A	07/25/2012	15:42:55	1P7207B
016	AR541AA	AR5411224A	07/25/2012	15:57:44	1P7207B
017	AR542AA	AR5421224A	07/25/2012	16:12:27	1P7207B
018	AR543AA	AR5431224A	07/25/2012	16:27:13	1P7207B
019	AR544AA	AR5441224A	07/25/2012	16:48:25	1P7207B
020	AR545AA	AR5451224A	07/25/2012	17:03:12	1P7207B
021	AR623AA	AR6231224B	07/25/2012	17:17:59	1P7207B
022	AR683AA	AR6831224B	07/25/2012	17:32:37	1P7207B
023	AR213AA	AR2131224A	07/25/2012	17:47:09	1P7207B
024	AR32XAA	AR32X1224B	07/25/2012	18:01:43	1P7207B
025	AR423AA	AR4231224A	07/25/2012	18:16:17	1P7207B
026	AR16XAA	AR16XX1224B	07/25/2012	18:33:20	1P7207B
027	MD16XAA	MD16X1224B	07/25/2012	18:48:05	1P7207B
028	IC16XAA	IC16X1224B	07/25/2012	19:02:47	1P7207B
029	IC48XAA	IC48X1224A	07/25/2012	19:17:13	1P7207B
030	IC54XAA	IC54X1224A	07/25/2012	19:31:44	1P7207B
031	IC48XCF	IC48X1224A	07/25/2012	19:50:14	1P7207B

8D
ANALYTICAL SEQUENCE

Sequence: 2P7207 Lab Name: Lancaster laboratories Contract:

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

GC Column: RTXCLPI ID: 0.32

Instrument: H5088A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/26/2012	17:08:21	1P7207	3.80	9.11
002		CONDITIONER	07/26/2012	17:23:06	1P7207	3.79	9.10
003		CONDITIONER	07/26/2012	17:37:52	1P7207	3.79	9.09
004	AR163YM	AR1631224B	07/26/2012	17:52:40	1P7207	3.79	9.09
005	PIBLKQD	IBLKX1224C	07/26/2012	18:07:17	1P7207	3.79	9.10
006	32--0	6721499	07/26/2012	18:21:54	1P7207	3.79	9.10
007	AR163YN	AR1631224B	07/26/2012	18:36:42	1P7207	3.79	9.09
008	PIBLKQE	IBLKX1224C	07/26/2012	18:51:19	1P7207	3.79	9.09
009	32--0	6721499	07/26/2012	19:24:38	1P7207	3.79	9.10
010	AR163YP	AR1631224B	07/26/2012	19:39:16	1P7207	3.79	9.10
011	PIBLKQG	IBLKX1224C	07/26/2012	19:54:03	1P7207	3.79	9.09
012	GR407	6722521	07/26/2012	20:08:47	1P7207		9.09
013	GR409	6722522	07/26/2012	20:23:32	1P7207	3.79	9.09
014	32--0	6721499	07/26/2012	20:40:23	1P7207	3.79	9.10
015	32--0	6721499	07/26/2012	20:55:00	1P7207	3.79	9.09
016		CONDITIONER	07/26/2012	21:09:34	1P7207		
017		CONDITIONER	07/26/2012	21:24:08	1P7207		
018		CONDITIONER	07/26/2012	21:38:49	1P7207		
019	AR163YQ	AR1631224B	07/26/2012	21:53:35	1P7207	3.79	9.09
020	PIBLKQH	IBLKX1224C	07/26/2012	22:08:20	1P7207	3.79	9.09
021	GR409	6722522	07/26/2012	22:23:07	1P7207	3.79	9.09
022		CONDITIONER	07/26/2012	22:37:52	1P7207		
023	GR109	6722530	07/26/2012	22:52:39	1P7207		9.09
024		CONDITIONER	07/26/2012	23:07:24	1P7207		
025	GR113	6722532	07/26/2012	23:22:37	1P7207	3.79	9.10
026	GR600	6722533	07/26/2012	23:37:24	1P7207	3.79	9.09
027	GR601	6722534	07/26/2012	23:52:10	1P7207	3.79	9.09
028		CONDITIONER	07/27/2012	00:06:54	1P7207		
029	GR505	6722539	07/27/2012	00:21:40	1P7207	3.79	9.09
030	GR213	6722529	07/27/2012	00:36:23	1P7207	3.79	9.10
031	GR407	6722521	07/27/2012	00:51:12	1P7207		9.09
032		CONDITIONER	07/27/2012	01:05:58	1P7207		
033		CONDITIONER	07/27/2012	01:20:43	1P7207		

	ICAL Dates		ICAL RT	QC Limits
1P7207	07/25/2012 - 07/25/2012	TCX = Tetrachloro-m-xylene	3.78	(3.75 - 3.81 Minutes)
		DCB = Decachlorobiphenyl	9.09	(9.06 - 9.12 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 2P7207 Lab Name: Lancaster laboratories Contract:

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

GC Column: RTXCLPI ID: 0.32

Instrument: H5088A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034		CONDITIONER	07/27/2012	01:35:27	1P7207	3.79	9.09
035		CONDITIONER	07/27/2012	01:50:12	1P7207	3.79	9.09
036	AR163YO	AR1631224B	07/27/2012	02:04:48	1P7207	3.79	9.10
037	PIBLKQF	IBLKX1224C	07/27/2012	06:19:49	1P7207	3.80	9.12

	ICAL Dates		ICAL RT	QC Limits
1P7207	07/25/2012 - 07/25/2012	TCX = Tetrachloro-m-xylene	3.78	(3.75 - 3.81 Minutes)
		DCB = Decachlorobiphenyl	9.09	(9.06 - 9.12 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 2P7207B | Lab Name: Lancaster laboratories | Contract:

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

GC Column: RTXCLPII | ID: 0.32

Instrument: H5088B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/26/2012	17:08:21	1P7207B	3.63	8.58
002		CONDITIONER	07/26/2012	17:23:06	1P7207B	3.63	8.58
003		CONDITIONER	07/26/2012	17:37:52	1P7207B	3.63	8.57
004	AR163YM	AR1631224B	07/26/2012	17:52:40	1P7207B	3.63	8.57
005	PIBLKQD	IBLKX1224C	07/26/2012	18:07:17	1P7207B	3.63	8.58
006	32--0	6721499	07/26/2012	18:21:54	1P7207B	3.62	8.58
007	AR163YN	AR1631224B	07/26/2012	18:36:42	1P7207B	3.63	8.57
008	PIBLKQE	IBLKX1224C	07/26/2012	18:51:19	1P7207B	3.63	8.57
009	32--0	6721499	07/26/2012	19:24:38	1P7207B	3.63	8.57
010	AR163YP	AR1631224B	07/26/2012	19:39:16	1P7207B	3.63	8.57
011	PIBLKQG	IBLKX1224C	07/26/2012	19:54:03	1P7207B	3.63	8.57
012	GR407	6722521	07/26/2012	20:08:47	1P7207B	3.62	8.57
013	GR409	6722522	07/26/2012	20:23:32	1P7207B	3.62	8.57
014	32--0	6721499	07/26/2012	20:40:23	1P7207B	3.63	8.58
015	32--0	6721499	07/26/2012	20:55:00	1P7207B	3.63	8.57
016		CONDITIONER	07/26/2012	21:09:34	1P7207B		
017		CONDITIONER	07/26/2012	21:24:08	1P7207B	3.61	
018		CONDITIONER	07/26/2012	21:38:49	1P7207B		
019	AR163YQ	AR1631224B	07/26/2012	21:53:35	1P7207B	3.63	8.57
020	PIBLKQH	IBLKX1224C	07/26/2012	22:08:20	1P7207B	3.63	8.57
021	GR409	6722522	07/26/2012	22:23:07	1P7207B	3.62	8.57
022		CONDITIONER	07/26/2012	22:37:52	1P7207B		
023	GR109	6722530	07/26/2012	22:52:39	1P7207B		
024		CONDITIONER	07/26/2012	23:07:24	1P7207B		
025	GR113	6722532	07/26/2012	23:22:37	1P7207B	3.63	8.58
026	GR600	6722533	07/26/2012	23:37:24	1P7207B	3.63	8.57
027	GR601	6722534	07/26/2012	23:52:10	1P7207B	3.63	8.57
028		CONDITIONER	07/27/2012	00:06:54	1P7207B		
029	GR505	6722539	07/27/2012	00:21:40	1P7207B	3.63	8.57
030	GR213	6722529	07/27/2012	00:36:23	1P7207B	3.63	8.58
031	GR407	6722521	07/27/2012	00:51:12	1P7207B	3.62	8.57
032		CONDITIONER	07/27/2012	01:05:58	1P7207B		
033		CONDITIONER	07/27/2012	01:20:43	1P7207B		

	ICAL Dates		ICAL RT	QC Limits
1P7207B	07/25/2012 - 07/25/2012	TCX = Tetrachloro-m-xylene	3.63	(3.60 - 3.66 Minutes)
		DCB = Decachlorobiphenyl	8.57	(8.54 - 8.60 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 2P7207B Lab Name: Lancaster laboratories Contract:

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

GC Column: RTXCLPII ID: 0.32

Instrument: H5088B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034		CONDITIONER	07/27/2012	01:35:27	1P7207B	3.63	8.57
035		CONDITIONER	07/27/2012	01:50:12	1P7207B	3.63	8.57
036	AR163YO	AR1631224B	07/27/2012	02:04:48	1P7207B	3.63	8.58
037	PIBLKQF	IBLKX1224C	07/27/2012	06:19:49	1P7207B	3.64	8.59

	ICAL Dates		ICAL RT	QC Limits
1P7207B	07/25/2012 - 07/25/2012	TCX = Tetrachloro-m-xylene	3.63	(3.60 - 3.66 Minutes)
		DCB = Decachlorobiphenyl	8.57	(8.54 - 8.60 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 1P20205 Lab Name: Lancaster laboratories Contract:

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

GC Column: ZBmultiR1 ID: 30

Instrument: 17342A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	07/23/2012	12:00:39	1P20205
002		CONDITIONER	07/23/2012	12:09:53	1P20205
003		CONDITIONER	07/23/2012	12:21:15	1P20205
004		CONDITIONER	07/23/2012	12:32:45	1P20205
005	PIBLKAA	IBLKX1224C	07/23/2012	12:44:09	1P20205
006	AR161AA	AR1611224B	07/23/2012	12:55:31	1P20205
007	AR162AA	AR1621224B	07/23/2012	13:06:58	1P20205
008	AR163AA	AR1631224B	07/23/2012	13:18:20	1P20205
009	AR164AA	AR1641224B	07/23/2012	13:29:43	1P20205
010	AR165AA	AR1651224B	07/23/2012	13:41:12	1P20205
011	AR481AA	AR4811224A	07/23/2012	13:52:35	1P20205
012	AR482AA	AR4821224A	07/23/2012	14:04:05	1P20205
013	AR483AA	AR4831224A	07/23/2012	14:15:39	1P20205
014	AR484AA	AR4841224A	07/23/2012	14:27:01	1P20205
015	AR485AA	AR4851224A	07/23/2012	14:38:23	1P20205
016	AR541AA	AR5411224A	07/23/2012	14:49:54	1P20205
017	AR542AA	AR5421224A	07/23/2012	15:01:18	1P20205
018	AR543AA	AR5431224A	07/23/2012	15:12:42	1P20205
019	AR544AA	AR5441224A	07/23/2012	15:24:12	1P20205
020	AR545AA	AR5451224A	07/23/2012	15:35:41	1P20205
021	AR623AA	AR6231224B	07/23/2012	15:47:12	1P20205
022	AR683AA	AR6831224B	07/23/2012	15:58:42	1P20205
023	AR213AA	AR2131224A	07/23/2012	16:10:14	1P20205
024	AR32XAA	AR32X1224B	07/23/2012	16:21:37	1P20205
025	AR423AA	AR4231224A	07/23/2012	16:33:13	1P20205
026	AR16XAA	AR16XX1224B	07/23/2012	16:44:42	1P20205
027	MD16XAA	MD16X1224B	07/23/2012	16:56:07	1P20205
028	IC16XAA	IC16X1224B	07/23/2012	17:07:38	1P20205
029	IC48XAA	IC48X1224A	07/23/2012	17:19:02	1P20205
030	IC54XAA	IC54X1224A	07/23/2012	17:30:27	1P20205

8D
ANALYTICAL SEQUENCE

Sequence: 1P20205B Lab Name: Lancaster laboratories Contract:

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

GC Column: ZBmultiR2 ID: 30

Instrument: 17342B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File
001		CONDITIONER	07/23/2012	12:00:39	1P20205B
002		CONDITIONER	07/23/2012	12:09:53	1P20205B
003		CONDITIONER	07/23/2012	12:21:15	1P20205B
004		CONDITIONER	07/23/2012	12:32:45	1P20205B
005	PIBLKAA	IBLKX1224C	07/23/2012	12:44:09	1P20205B
006	AR161AA	AR1611224B	07/23/2012	12:55:31	1P20205B
007	AR162AA	AR1621224B	07/23/2012	13:06:58	1P20205B
008	AR163AA	AR1631224B	07/23/2012	13:18:20	1P20205B
009	AR164AA	AR1641224B	07/23/2012	13:29:43	1P20205B
010	AR165AA	AR1651224B	07/23/2012	13:41:12	1P20205B
011	AR481AA	AR4811224A	07/23/2012	13:52:35	1P20205B
012	AR482AA	AR4821224A	07/23/2012	14:04:05	1P20205B
013	AR483AA	AR4831224A	07/23/2012	14:15:39	1P20205B
014	AR484AA	AR4841224A	07/23/2012	14:27:01	1P20205B
015	AR485AA	AR4851224A	07/23/2012	14:38:23	1P20205B
016	AR541AA	AR5411224A	07/23/2012	14:49:54	1P20205B
017	AR542AA	AR5421224A	07/23/2012	15:01:18	1P20205B
018	AR543AA	AR5431224A	07/23/2012	15:12:42	1P20205B
019	AR544AA	AR5441224A	07/23/2012	15:24:12	1P20205B
020	AR545AA	AR5451224A	07/23/2012	15:35:41	1P20205B
021	AR623AA	AR6231224B	07/23/2012	15:47:12	1P20205B
022	AR683AA	AR6831224B	07/23/2012	15:58:42	1P20205B
023	AR213AA	AR2131224A	07/23/2012	16:10:14	1P20205B
024	AR32XAA	AR32X1224B	07/23/2012	16:21:37	1P20205B
025	AR423AA	AR4231224A	07/23/2012	16:33:13	1P20205B
026	AR16XAA	AR16XX1224B	07/23/2012	16:44:42	1P20205B
027	MD16XAA	MD16X1224B	07/23/2012	16:56:07	1P20205B
028	IC16XAA	IC16X1224B	07/23/2012	17:07:38	1P20205B
029	IC48XAA	IC48X1224A	07/23/2012	17:19:02	1P20205B
030	IC54XAA	IC54X1224A	07/23/2012	17:30:27	1P20205B

8D
ANALYTICAL SEQUENCE

Sequence: 3P20205 Lab Name: Lancaster laboratories Contract:

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

GC Column: ZBmultiR1 ID: 30

Instrument: 17342A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/24/2012	22:24:35	1P20205	3.30	7.18
002		CONDITIONER	07/24/2012	22:36:02	1P20205	3.31	7.19
003		CONDITIONER	07/24/2012	22:47:24	1P20205	3.31	7.19
004		CONDITIONER	07/24/2012	22:58:47	1P20205	3.30	7.20
005	AR163XL	AR1631224B	07/24/2012	23:10:17	1P20205	3.31	7.20
006	PIBLKPF	IBLKX1224C	07/24/2012	23:21:39	1P20205	3.31	7.20
007	GR407	6722521	07/24/2012	23:33:01	1P20205	3.31	7.20
008	GR409	6722522	07/24/2012	23:44:31	1P20205	3.31	7.20
009	49--4	6721496	07/24/2012	23:56:00	1P20205	3.31	7.20
010	32--0	6721499	07/25/2012	00:07:31	1P20205	3.31	7.19
011	32--0	6721499	07/25/2012	00:19:01	1P20205	3.31	7.19
012	AR163XM	AR1631224B	07/25/2012	00:30:35	1P20205	3.31	7.20
013	PIBLKPG	IBLKX1224C	07/25/2012	00:42:04	1P20205	3.31	7.20
014	PBLK06203	BLANKA	07/25/2012	00:53:27	1P20205	3.31	7.19
015	LCS06203	LCSA	07/25/2012	01:04:56	1P20205	3.31	7.20
016	WC-01	6727598	07/25/2012	01:16:18	1P20205	3.31	7.20
017	WC-01MS	6727598	07/25/2012	01:27:48	1P20205	3.31	7.20
018	WC-01MSD	6727598	07/25/2012	01:39:22	1P20205	3.31	7.20
019	WC-02	6727599	07/25/2012	01:50:51	1P20205	3.31	7.20
020	WC-03	6727600	07/25/2012	02:02:20	1P20205	3.31	7.20
021	WC-04	6727601	07/25/2012	02:13:50	1P20205	3.31	7.20
022	WC-05	6727602	07/25/2012	02:25:20	1P20205	3.31	7.20
023	WC-06	6727603	07/25/2012	02:36:49	1P20205	3.31	7.20
024	WC-07	6727604	07/25/2012	02:48:24	1P20205	3.31	7.20
025	WC-19	6727605	07/25/2012	02:59:53	1P20205	3.31	7.20
026	WC-20	6727606	07/25/2012	03:11:11	1P20205	3.31	7.20
027	WC-21	6727607	07/25/2012	03:22:35	1P20205	3.31	7.20
028	WC-22	6727608	07/25/2012	03:34:06	1P20205	3.31	7.20
029	WC-23	6727609	07/25/2012	03:45:29	1P20205	3.31	7.20
030	WC-24	6727610	07/25/2012	03:57:05	1P20205	3.31	7.20
031	WC-25	6727611	07/25/2012	04:08:30	1P20205	3.31	7.20
032	WC-08	6727612	07/25/2012	04:19:53	1P20205	3.31	7.19
033	WC-09	6727613	07/25/2012	04:31:17	1P20205	3.31	7.19

	ICAL Dates		ICAL RT	QC Limits
1P20205	07/23/2012 - 07/23/2012	TCX = Tetrachloro-m-xylene	3.31	(3.29 - 3.33 Minutes)
		DCB = Decachlorobiphenyl	7.2	(7.18 - 7.22 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 3P20205 Lab Name: Lancaster laboratories Contract:

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

GC Column: ZBmultiR1 ID: 30

Instrument: 17342A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034	AR163XN	AR1631224B	07/25/2012	04:42:49	1P20205	3.31	7.20
035	PIBLKPH	IBLKX1224C	07/25/2012	04:54:11	1P20205	3.31	7.20
036	WC10-	6727614	07/25/2012	05:05:45	1P20205	3.31	7.20
037	WC-11	6727615	07/25/2012	05:17:14	1P20205	3.31	7.20
038	WC-12	6727616	07/25/2012	05:28:44	1P20205	3.31	7.20
039	WC-13	6727617	07/25/2012	05:40:06	1P20205	3.31	7.19
040	AR163XO	AR1631224B	07/25/2012	05:51:29	1P20205	3.31	7.19
041	PIBLKPI	IBLKX1224C	07/25/2012	06:02:49	1P20205	3.31	7.19
042	PBLK09205	BLANKA	07/25/2012	06:14:18	1P20205	3.31	7.20
043	LCS09205	LCSA	07/25/2012	06:25:48	1P20205	3.31	7.20
044	WC-14	6727618	07/25/2012	06:37:11	1P20205	3.31	7.19
045	WC-15	6727619	07/25/2012	06:48:41	1P20205	3.31	7.20
046	WC-16	6727620	07/25/2012	07:00:11	1P20205	3.31	7.20
047	WC-17	6727621	07/25/2012	07:11:35	1P20205	3.31	7.19
048	WC-18	6727622	07/25/2012	07:23:02	1P20205	3.31	7.20
049	AR163XP	AR1631224B	07/25/2012	07:34:32	1P20205	3.31	7.20
050	PIBLKPJ	IBLKX1224C	07/25/2012	07:45:54	1P20205	3.31	7.20
051	SB1-0	6726926	07/25/2012	07:57:24	1P20205	3.31	7.20
052	SB1-8	6726927	07/25/2012	08:08:55	1P20205	3.31	7.20
053	SB2-0	6726928	07/25/2012	08:20:27	1P20205	3.31	7.20
054	SB2-8	6726929	07/25/2012	08:32:01	1P20205	3.31	7.20
055	SB2-8	6726930	07/25/2012	08:43:31	1P20205	3.31	7.20
056	SB2-8	6726931	07/25/2012	08:54:58	1P20205	3.31	7.20
057	SB3-0	6726933	07/25/2012	09:06:21	1P20205	3.31	7.20
058	SB4-0	6726934	07/25/2012	09:17:45	1P20205	3.31	7.20
059	SB5-0	6726935	07/25/2012	09:29:15	1P20205	3.31	7.20
060	SB6-0	6726936	07/25/2012	09:40:49	1P20205	3.31	7.20
061	AR163XQ	AR1631224B	07/25/2012	09:52:12	1P20205	3.31	7.20
062	PIBLKPK	IBLKX1224C	07/25/2012	10:03:42	1P20205	3.31	7.20
063	SB7-0	6726937	07/25/2012	10:15:14	1P20205	3.31	7.20
064	SB8-0	6726938	07/25/2012	10:26:45	1P20205	3.31	7.19
065	SB9-0	6726939	07/25/2012	10:45:39	1P20205	3.32	7.21
066	SB100	6726940	07/25/2012	10:56:58	1P20205	3.31	7.20

	ICAL Dates		ICAL RT	QC Limits
1P20205	07/23/2012 - 07/23/2012	TCX = Tetrachloro-m-xylene	3.31	(3.29 - 3.33 Minutes)
		DCB = Decachlorobiphenyl	7.2	(7.18 - 7.22 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 3P20205 Lab Name: Lancaster laboratories Contract:

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

GC Column: ZBmultiR1 ID: 30

Instrument: 17342A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
067	RR2--	6728505	07/25/2012	11:08:29	1P20205	3.31	7.20
068	AA	MS12181	07/25/2012	11:19:53	1P20205	3.30	7.20
069	AR163XR	AR1631224B	07/25/2012	11:31:17	1P20205	3.31	7.20
070	PIBLKPL	IBLKX1224C	07/25/2012	11:42:41	1P20205	3.31	7.20
071	PBLK10205	BLANKA	07/25/2012	11:54:16	1P20205	3.31	7.20
072	LCS10205	LCSA	07/25/2012	12:05:39	1P20205	3.31	7.20
073	501--	6727930	07/25/2012	12:17:03	1P20205	3.31	7.20
074	506--	6727931	07/25/2012	12:28:26	1P20205	3.31	7.20
075	507--	6727932	07/25/2012	12:39:56	1P20205	3.31	7.20
076	508--	6727933	07/25/2012	12:51:20	1P20205	3.31	7.20
077	508--	6727933	07/25/2012	13:02:56	1P20205	3.31	7.20
078	300Q-	6728412	07/25/2012	13:14:19	1P20205	3.31	7.20
079	400QG	6728427	07/25/2012	13:25:51	1P20205	3.31	7.21
080	400QG	6728427	07/25/2012	13:37:17	1P20205	3.31	7.20
081	AR163XS	AR1631224B	07/25/2012	13:48:42	1P20205	3.31	7.20
082	PIBLKPM	IBLKX1224C	07/25/2012	14:00:09	1P20205	3.31	7.20
083	A2500	6728521	07/25/2012	14:11:45	1P20205	3.31	7.20
084	A2524	6728522	07/25/2012	14:23:08	1P20205	3.31	7.20
085	A2504	6728523	07/25/2012	14:34:33	1P20205	3.31	7.20
086	A2600	6728527	07/25/2012	14:46:03	1P20205	3.31	7.20
087	A2602	6728528	07/25/2012	14:57:26	1P20205	3.31	7.20
088	A2602	6728529	07/25/2012	15:08:56	1P20205	3.31	7.20
089	A2602	6728530	07/25/2012	15:20:32	1P20205	3.31	7.20
090	AFD01	6728532	07/25/2012	15:31:56	1P20205	3.31	7.20
091		CONDITIONER	07/25/2012	15:43:27	1P20205	3.29	
092	AR163XT	AR1631224B	07/25/2012	15:54:52	1P20205	3.31	7.20
093	PIBLKPN	IBLKX1224C	07/25/2012	16:06:23	1P20205	3.31	7.20
094	A2700	6728535	07/25/2012	16:17:54	1P20205	3.31	7.20
095	A2702	6728536	07/25/2012	16:29:22	1P20205	3.31	7.20
096	A2704	6728537	07/25/2012	16:40:45	1P20205	3.31	7.20
097	A2800	6728539	07/25/2012	16:52:16	1P20205	3.31	7.20
098	A2802	6728540	07/25/2012	17:03:40	1P20205	3.31	7.20
099	A2802	6728540	07/25/2012	17:15:12	1P20205	3.31	7.20

	ICAL Dates		ICAL RT	QC Limits
1P20205	07/23/2012 - 07/23/2012	TCX = Tetrachloro-m-xylene	3.31	(3.29 - 3.33 Minutes)
		DCB = Decachlorobiphenyl	7.2	(7.18 - 7.22 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 3P20205 Lab Name: Lancaster laboratories Contract:

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

GC Column: ZBmultiR1 ID: 30

Instrument: 17342A

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
100		CONDITIONER	07/25/2012	17:26:36	1P20205		7.19
101		CONDITIONER	07/25/2012	17:38:12	1P20205		
102	AR163XU	AR1631224B	07/25/2012	17:49:43	1P20205	3.31	7.20
103	PIBLKPO	IBLKX1224C	07/25/2012	18:01:08	1P20205	3.31	7.20

	ICAL Dates		ICAL RT	QC Limits
1P20205	07/23/2012 - 07/23/2012	TCX = Tetrachloro-m-xylene	3.31	(3.29 - 3.33 Minutes)
		DCB = Decachlorobiphenyl	7.2	(7.18 - 7.22 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 3P20205B Lab Name: Lancaster laboratories Contract:

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

GC Column: ZBmultiR2 ID: 30

Instrument: 17342B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
001		CONDITIONER	07/24/2012	22:24:35	1P20205B	3.07	6.77
002		CONDITIONER	07/24/2012	22:36:02	1P20205B	3.07	6.77
003		CONDITIONER	07/24/2012	22:47:24	1P20205B	3.07	6.78
004		CONDITIONER	07/24/2012	22:58:47	1P20205B	3.07	6.78
005	AR163XL	AR1631224B	07/24/2012	23:10:17	1P20205B	3.07	6.78
006	PIBLKPF	IBLKX1224C	07/24/2012	23:21:39	1P20205B	3.07	6.78
007	GR407	6722521	07/24/2012	23:33:01	1P20205B	3.07	6.78
008	GR409	6722522	07/24/2012	23:44:31	1P20205B	3.07	6.78
009	49--4	6721496	07/24/2012	23:56:00	1P20205B	3.07	6.78
010	32--0	6721499	07/25/2012	00:07:31	1P20205B	3.06	6.78
011	32--0	6721499	07/25/2012	00:19:01	1P20205B	3.07	6.78
012	AR163XM	AR1631224B	07/25/2012	00:30:35	1P20205B	3.07	6.78
013	PIBLKPG	IBLKX1224C	07/25/2012	00:42:04	1P20205B	3.07	6.78
014	PBLK06203	BLANKA	07/25/2012	00:53:27	1P20205B	3.07	6.78
015	LCS06203	LCSA	07/25/2012	01:04:56	1P20205B	3.07	6.78
016	WC-01	6727598	07/25/2012	01:16:18	1P20205B	3.07	6.78
017	WC-01MS	6727598	07/25/2012	01:27:48	1P20205B	3.07	6.78
018	WC-01MSD	6727598	07/25/2012	01:39:22	1P20205B	3.07	6.78
019	WC-02	6727599	07/25/2012	01:50:51	1P20205B	3.07	6.78
020	WC-03	6727600	07/25/2012	02:02:20	1P20205B	3.07	6.78
021	WC-04	6727601	07/25/2012	02:13:50	1P20205B	3.07	6.78
022	WC-05	6727602	07/25/2012	02:25:20	1P20205B	3.07	6.78
023	WC-06	6727603	07/25/2012	02:36:49	1P20205B	3.07	6.78
024	WC-07	6727604	07/25/2012	02:48:24	1P20205B	3.07	6.78
025	WC-19	6727605	07/25/2012	02:59:53	1P20205B	3.07	6.78
026	WC-20	6727606	07/25/2012	03:11:11	1P20205B	3.07	6.78
027	WC-21	6727607	07/25/2012	03:22:35	1P20205B	3.07	6.78
028	WC-22	6727608	07/25/2012	03:34:06	1P20205B	3.07	6.78
029	WC-23	6727609	07/25/2012	03:45:29	1P20205B	3.07	6.78
030	WC-24	6727610	07/25/2012	03:57:05	1P20205B	3.07	6.78
031	WC-25	6727611	07/25/2012	04:08:30	1P20205B	3.07	6.78
032	WC-08	6727612	07/25/2012	04:19:53	1P20205B	3.07	6.77
033	WC-09	6727613	07/25/2012	04:31:17	1P20205B	3.07	6.77

	ICAL Dates		ICAL RT	QC Limits
1P20205B	07/23/2012 - 07/23/2012	TCX = Tetrachloro-m-xylene	3.07	(3.05 - 3.09 Minutes)
		DCB = Decachlorobiphenyl	6.78	(6.76 - 6.80 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 3P20205B | Lab Name: Lancaster laboratories | Contract:

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

GC Column: ZBmultiR2 | ID: 30

Instrument: 17342B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
034	AR163XN	AR1631224B	07/25/2012	04:42:49	1P20205B	3.07	6.78
035	PIBLKPH	IBLKX1224C	07/25/2012	04:54:11	1P20205B	3.07	6.78
036	WC10-	6727614	07/25/2012	05:05:45	1P20205B	3.07	6.78
037	WC-11	6727615	07/25/2012	05:17:14	1P20205B	3.07	6.78
038	WC-12	6727616	07/25/2012	05:28:44	1P20205B	3.07	6.78
039	WC-13	6727617	07/25/2012	05:40:06	1P20205B	3.07	6.78
040	AR163XO	AR1631224B	07/25/2012	05:51:29	1P20205B	3.07	6.78
041	PIBLKPI	IBLKX1224C	07/25/2012	06:02:49	1P20205B	3.07	6.77
042	PBLK09205	BLANKA	07/25/2012	06:14:18	1P20205B	3.07	6.78
043	LCS09205	LCSA	07/25/2012	06:25:48	1P20205B	3.07	6.78
044	WC-14	6727618	07/25/2012	06:37:11	1P20205B	3.07	6.77
045	WC-15	6727619	07/25/2012	06:48:41	1P20205B	3.07	6.78
046	WC-16	6727620	07/25/2012	07:00:11	1P20205B	3.07	6.78
047	WC-17	6727621	07/25/2012	07:11:35	1P20205B	3.07	6.78
048	WC-18	6727622	07/25/2012	07:23:02	1P20205B	3.07	6.78
049	AR163XP	AR1631224B	07/25/2012	07:34:32	1P20205B	3.07	6.78
050	PIBLKPJ	IBLKX1224C	07/25/2012	07:45:54	1P20205B	3.07	6.78
051	SB1-0	6726926	07/25/2012	07:57:24	1P20205B	3.07	6.78
052	SB1-8	6726927	07/25/2012	08:08:55	1P20205B	3.07	6.78
053	SB2-0	6726928	07/25/2012	08:20:27	1P20205B	3.07	6.78
054	SB2-8	6726929	07/25/2012	08:32:01	1P20205B	3.07	6.78
055	SB2-8	6726930	07/25/2012	08:43:31	1P20205B	3.07	6.78
056	SB2-8	6726931	07/25/2012	08:54:58	1P20205B	3.07	6.78
057	SB3-0	6726933	07/25/2012	09:06:21	1P20205B	3.07	6.78
058	SB4-0	6726934	07/25/2012	09:17:45	1P20205B	3.07	6.78
059	SB5-0	6726935	07/25/2012	09:29:15	1P20205B	3.07	6.78
060	SB6-0	6726936	07/25/2012	09:40:49	1P20205B	3.07	6.78
061	AR163XQ	AR1631224B	07/25/2012	09:52:12	1P20205B	3.07	6.78
062	PIBLKPK	IBLKX1224C	07/25/2012	10:03:42	1P20205B	3.07	6.78
063	SB7-0	6726937	07/25/2012	10:15:14	1P20205B	3.07	6.78
064	SB8-0	6726938	07/25/2012	10:26:45	1P20205B	3.07	6.78
065	SB9-0	6726939	07/25/2012	10:45:39	1P20205B	3.07	
066	SB100	6726940	07/25/2012	10:56:58	1P20205B	3.07	6.78

	ICAL Dates		ICAL RT	QC Limits
1P20205B	07/23/2012 - 07/23/2012	TCX = Tetrachloro-m-xylene	3.07	(3.05 - 3.09 Minutes)
		DCB = Decachlorobiphenyl	6.78	(6.76 - 6.80 Minutes)

FORM VIII PEST

8D
- ANALYTICAL SEQUENCE

Sequence: 3P20205B Lab Name: Lancaster laboratories Contract:

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

GC Column: ZBmultiR2 ID: 30

Instrument: 17342B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
067	RR2--	6728505	07/25/2012	11:08:29	1P20205B	3.07	6.78
068	AA	MS12181	07/25/2012	11:19:53	1P20205B	3.06	6.78
069	AR163XR	AR1631224B	07/25/2012	11:31:17	1P20205B	3.07	6.78
070	PIBLKPL	IBLKX1224C	07/25/2012	11:42:41	1P20205B	3.07	6.78
071	PBLK10205	BLANKA	07/25/2012	11:54:16	1P20205B	3.07	6.78
072	LCS10205	LCSA	07/25/2012	12:05:39	1P20205B	3.07	6.78
073	501--	6727930	07/25/2012	12:17:03	1P20205B	3.06	6.78
074	506--	6727931	07/25/2012	12:28:26	1P20205B		6.78
075	507--	6727932	07/25/2012	12:39:56	1P20205B	3.07	6.78
076	508--	6727933	07/25/2012	12:51:20	1P20205B	3.07	6.78
077	508--	6727933	07/25/2012	13:02:56	1P20205B	3.07	6.78
078	300Q-	6728412	07/25/2012	13:14:19	1P20205B	3.07	6.78
079	400QG	6728427	07/25/2012	13:25:51	1P20205B	3.07	6.79
080	400QG	6728427	07/25/2012	13:37:17	1P20205B	3.07	6.78
081	AR163XS	AR1631224B	07/25/2012	13:48:42	1P20205B	3.07	6.78
082	PIBLKPM	IBLKX1224C	07/25/2012	14:00:09	1P20205B	3.07	6.78
083	A2500	6728521	07/25/2012	14:11:45	1P20205B	3.06	6.78
084	A2524	6728522	07/25/2012	14:23:08	1P20205B	3.07	6.78
085	A2504	6728523	07/25/2012	14:34:33	1P20205B	3.07	6.78
086	A2600	6728527	07/25/2012	14:46:03	1P20205B	3.07	6.78
087	A2602	6728528	07/25/2012	14:57:26	1P20205B	3.07	6.78
088	A2602	6728529	07/25/2012	15:08:56	1P20205B	3.07	6.78
089	A2602	6728530	07/25/2012	15:20:32	1P20205B	3.07	6.78
090	AFD01	6728532	07/25/2012	15:31:56	1P20205B	3.07	6.78
091		CONDITIONER	07/25/2012	15:43:27	1P20205B	3.07	6.78
092	AR163XT	AR1631224B	07/25/2012	15:54:52	1P20205B	3.07	6.78
093	PIBLKPN	IBLKX1224C	07/25/2012	16:06:23	1P20205B	3.07	6.78
094	A2700	6728535	07/25/2012	16:17:54	1P20205B	3.07	6.78
095	A2702	6728536	07/25/2012	16:29:22	1P20205B	3.07	6.78
096	A2704	6728537	07/25/2012	16:40:45	1P20205B	3.07	6.78
097	A2800	6728539	07/25/2012	16:52:16	1P20205B	3.07	6.78
098	A2802	6728540	07/25/2012	17:03:40	1P20205B	3.07	6.78
099	A2802	6728540	07/25/2012	17:15:12	1P20205B	3.07	6.78

	ICAL Dates		ICAL RT	QC Limits
1P20205B	07/23/2012 - 07/23/2012	TCX = Tetrachloro-m-xylene	3.07	(3.05 - 3.09 Minutes)
		DCB = Decachlorobiphenyl	6.78	(6.76 - 6.80 Minutes)

FORM VIII PEST

8D
ANALYTICAL SEQUENCE

Sequence: 3P20205B Lab Name: Lancaster laboratories Contract:

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

GC Column: ZBmultiR2 ID: 30

Instrument: 17342B

THIS ANALYTICAL SEQUENCE OF BLANKS, SAMPLES AND STANDARDS IS GIVEN BELOW:

	Sample Code No.	Lab Sample ID	Date Analyzed	Time Analyzed	Calibration File	TCX	DCB
100		CONDITIONER	07/25/2012	17:26:36	1P20205B	3.08	6.77
101		CONDITIONER	07/25/2012	17:38:12	1P20205B	3.06	6.77
102	AR163XU	AR1631224B	07/25/2012	17:49:43	1P20205B	3.07	6.78
103	PIBLKPO	IBLKX1224C	07/25/2012	18:01:08	1P20205B	3.07	6.78

	ICAL Dates		ICAL RT	QC Limits
1P20205B	07/23/2012 - 07/23/2012	TCX = Tetrachloro-m-xylene	3.07	(3.05 - 3.09 Minutes)
		DCB = Decachlorobiphenyl	6.78	(6.76 - 6.80 Minutes)

FORM VIII PEST

Sample Data

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LOQ/MDL Summary
Pesticide Residue Analysis

SDG: ASX73

Fraction: Polychlorinated Biphenyls (PCBs)

10736: 7 PCBs in Solids Analyte Name	Default MDL	Default LOQ	Units
PCB-1016	3.6	17	ug/kg
PCB-1221	4.6	17	ug/kg
PCB-1232	8.0	17	ug/kg
PCB-1242	3.3	17	ug/kg
PCB-1248	3.3	17	ug/kg
PCB-1254	3.3	17	ug/kg
PCB-1260	4.9	17	ug/kg

10227: PCBs in Water Analyte Name	Default MDL	Default LOQ	Units
PCB-1016	0.10	0.50	ug/l
PCB-1221	0.10	0.50	ug/l
PCB-1232	0.20	0.50	ug/l
PCB-1242	0.10	0.50	ug/l
PCB-1248	0.10	0.50	ug/l
PCB-1254	0.10	0.50	ug/l
PCB-1260	0.15	0.50	ug/l

Data Summary

Sample Name: 6721494 ACF DF200 49--0 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.3 g Total Volume: 2000 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 04:42:52
Instrument	H5088A
Result file	9P7190.026.RAW
Calibration file	1P7190
Method file	PESTDI7

%SSR(TCX) 81% (33 - 143) Conc: 8.318315
%SSR(DCB) * 0% (24 - 164) Conc: 0

Analysis Report (B)

Injected on	Jul 20, 2012 04:42:52
Instrument	H5088B
Result file	9P7190B.026.RAW
Calibration file	1P7190B
Method file	PESTDI7B

%SSR(TCX) 117% (33 - 143) Conc: 11.993751
%SSR(DCB) 124% (24 - 164) Conc: 12.264116

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.86	3.88	1346	8.318315

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.66	3.69	3.72	669	11.993751
Decachlorobiphenyl	8.68	8.71	8.74	704	12.264116

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	B	11.993751				36.19	
☑	Decachlorobiphenyl	B	12.264116				200.00	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**17.07**	
5.82	5.85	5.88	23331.320313	5277.500862			1
6.14	6.16	6.20	27151.089844	4870.868208			2
6.39	6.42	6.45	30365.394531	6696.35406			3
Height summation:			**80847.804688**				
Concentration		CF:	**5614.90771**	L:			
Aroclor-1260						**5.11**	
7.04	7.06	7.10	30625.761719	7819.224284			4
7.35	7.37	7.41	62544.042969	7261.492698			5
7.65	7.68	7.71	31618.28125	7099.459509			6
Height summation:			**124788.085938**				
Concentration		CF:	**7393.392164**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**58.67**	
5.46	5.49	5.52	12370.138672	4590.445649			1
5.96	5.99	6.02	23762.716797	7136.794782			2
6.08	6.11	6.14	23226.914063	14453.016039			3
Height summation:			**59359.769532**				
Concentration		CF:	**8726.752157**	L:			
Aroclor-1260						**9.42**	
6.76	6.79	6.82	2321.218506	7165.909679			4
7.04	7.07	7.10	43205.125	8445.563396			5
7.39	7.41	7.45	30759.003906	8507.611959			6
Height summation:			**76285.347412**				
Concentration		CF:	**8039.695011**	L:			

Data Summary

Sample Name: 6721494 ACF DF200 49--0 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.3 g Total Volume: 2000 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 04:42:52
Instrument	H5088A
Result file	9P7190.026.RAW
Calibration file	1P7190
Method file	PESTDI7

Analysis Report (B)

Injected on	Jul 20, 2012 04:42:52
Instrument	H5088B
Result file	9P7190B.026.RAW
Calibration file	1P7190B
Method file	PESTDI7B

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
☑	Aroclor-1016			<3366.3367	<712.8713			4	40	
☑	Aroclor-1221			<3366.3367	<910.8911			3	40	
☑	Aroclor-1232			<3366.3367	<1584.1584			4	40	
☑	Aroclor-1242			<3366.3367	<653.4654			4	40	
☑	Aroclor-1248			<3366.3367	<653.4654			4	40	
☑	Aroclor-1254	B	8726.752157	3366.3367	653.4654		43.40	4	40	
☑	Aroclor-1260	B	8039.695011	3366.3367	970.297		8.38	4	40	
☐	Aroclor-1262			<3366.3367	<653.4654			4	40	
☐	Aroclor-1268			<3366.3367	<653.4654			4	40	
☐	Total PCBs	A	16766.447168	3366.3367	653.4654		200.00			

Units: ug/kg

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

Reviewed by: Monica M. Souders
Chemist

Date: JUL 20 2012

Verified by: Jenifer E. Lewis
Manager

Date: JUL 25 2012

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721494** ACF DF200 49--0 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.3 g Total Volume: 2000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 04:42:52
Instrument : CP 7--H5088A
Result file : 9p7190.026.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

%SSR(TCX) : 81% (33-143) Conc.: 8.318315
%SSR(DCB) : *-3113% (24-164) Conc.: -308.213959

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					3	134.34	
4.17	4.20	4.23	260.044189	80.004519			1
4.89	4.93	4.95	521.656982	77.654658			3
5.29	5.32	5.35	2427.385986	896.276037			6
Height Summation:			**3209.087157**				
Amount Avg CF:			**351.311738**	Linear:			
Aroclor-1221					1		
4.18	4.20	4.24	260.044189	61.901379			3
Height Summation:			**260.044189**				
Amount Avg CF:			**61.901379**	Linear:			
Aroclor-1232					3	146.94	
4.18	4.20	4.24	260.044189	62.638933			1
4.90	4.93	4.96	521.656982	150.641169			3
5.30	5.32	5.36	2427.385986	1885.536955			6
Height Summation:			**3209.087157**				
Amount Avg CF:			**699.605686**	Linear:			
Aroclor-1242					3	134.74	
4.18	4.20	4.24	260.044189	99.27779			1
4.89	4.93	4.96	521.656982	94.603416			3
5.30	5.32	5.36	2427.385986	1115.490672			6
Height Summation:			**3209.087157**				
Amount Avg CF:			**436.457293**	Linear:			
Aroclor-1248					5	130.13	
4.90	4.93	4.96	521.656982	151.470571			1
5.30	5.32	5.36	2427.385986	677.215517			3
5.42	5.44	5.48	1690.668457	859.755581			4
6.14	6.16	6.20	27151.089844	15112.849425			5
6.40	6.42	6.46	30365.394531	20280.733885			6
Height Summation:			**62156.195800**				
Amount Avg CF:			**7376.404996**	Linear:			
Aroclor-1254					6	46.79	
5.82	5.85	5.88	23331.320313	5277.500862			1
6.14	6.16	6.20	27151.089844	4870.868208			2
6.39	6.42	6.45	30365.394531	6696.35406			3
6.54	6.55	6.60	47134.824219	15664.004429			4
6.63	6.66	6.69	33730.515625	10716.821186			5
6.77	6.79	6.83	57403.265625	12169.144464			6
Height Summation:			**219116.410157**				
Amount Avg CF:			**9232.448868**	Linear:			
Aroclor-1260					6	11.62	
6.29	6.31	6.35	32863.988281	6631.940899			1
6.52	6.55	6.58	47134.824219	7933.500838			2
6.77	6.79	6.83	57403.265625	9186.064886			3
7.04	7.06	7.10	30625.761719	7819.224284			4
7.35	7.37	7.41	62544.042969	7261.492698			5
7.65	7.68	7.71	31618.28125	7099.459509			6
Height Summation:			**262190.164063**				
Amount Avg CF:			**7655.280519**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 04:42:52
Instrument : CP 7--H5088B
Result file : 9p7190B.026.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : 117% (33-143) Conc.: 11.993751
%SSR(DCB) : 124% (24-164) Conc.: 12.264116

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					2	97.72	
4.51	4.54	4.58	195.044662	134.347045			3
5.27	5.30	5.33	765.974854	735.110035			6
Height Summation:			**961.019516**				
Amount Avg CF:			**434.72854**	Linear:			
Aroclor-1232					2	101.74	
4.52	4.54	4.58	195.044662	243.737894			3
5.28	5.30	5.34	765.974854	1493.630664			6
Height Summation:			**961.019516**				
Amount Avg CF:			**868.684279**	Linear:			
Aroclor-1242					2	96.17	
4.52	4.54	4.58	195.044662	162.758983			3
5.28	5.30	5.34	765.974854	854.549108			6
Height Summation:			**961.019516**				
Amount Avg CF:			**508.654046**	Linear:			
Aroclor-1248					4	108.99	
5.14	5.17	5.20	1136.707642	804.793025			3
5.28	5.30	5.34	765.974854	660.175361			4
5.96	5.99	6.02	23762.716797	24950.15064			5
6.17	6.20	6.23	16434.994141	21762.869949			6
Height Summation:			**42100.393434**				
Amount Avg CF:			**12044.497244**	Linear:			
Aroclor-1254					6	45.53	
5.46	5.49	5.52	12370.138672	4590.445649			1
5.96	5.99	6.02	23762.716797	7136.794782			2
6.08	6.11	6.14	23226.914063	14453.016039			3
6.17	6.20	6.23	16434.994141	7263.129594			4
6.39	6.41	6.45	23131.117188	16490.327747			5
6.55	6.57	6.61	33746.820313	12595.564382			6
Height Summation:			**132672.701174**				
Amount Avg CF:			**10421.546366**	Linear:			
Aroclor-1260					6	39.85	
6.25	6.28	6.31	28986.546875	8965.917519			1
6.39	6.41	6.45	23131.117188	7982.191577			2
6.55	6.57	6.61	33746.820313	17648.671587			3
6.76	6.79	6.82	2321.218506	7165.909679			4
7.04	7.07	7.10	43205.125	8445.563396			5
7.39	7.41	7.45	30759.003906	8507.611959			6
Height Summation:			**162149.831788**				
Amount Avg CF:			**9785.97762**	Linear:			
Aroclor-1262					5	32.64	
6.39	6.41	6.45	23131.117188	9636.192151			1
6.81	6.84	6.87	15344.541016	4836.063813			3
7.04	7.07	7.10	43205.125	6609.169345			4
7.39	7.41	7.45	30759.003906	6471.582929			5
7.97	7.99	8.03	11973.166992	4315.32204			6
Height Summation:			**124412.954102**				
Amount Avg CF:			**6373.666056**	Linear:			

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721494** ACF DF200 49--0 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.3 g Total Volume: 2000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 04:42:52
Instrument : CP 7--H5088A
Result file : 9p7190.026.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1262					**6**	**48.18**	
6.52	6.55	6.58	47134.824219	11411.629549			1
6.84	6.86	6.90	15551.378906	3308.601744			2
7.04	7.06	7.10	30625.761719	6656.905491			3
7.35	7.37	7.41	62544.042969	5871.638689			4
7.65	7.68	7.71	31618.28125	5313.310759			5
8.42	8.45	8.48	15595.573242	3747.331898			6
Height Summation:			**203069.862305**				
Amount Avg CF:			**6051.569688**	Linear:			
Aroclor-1268					**6**	**115.72**	
7.65	7.68	7.71	31618.28125	2621.236422			1
7.74	7.76	7.80	9368.820313	902.680731			2
7.97	7.99	8.03	659.250671	60.677962			3
8.08	8.10	8.14	605.254883	223.394854			4
8.43	8.45	8.49	15595.573242	3209.436808			5
8.87	8.89	8.93	4207.930664	138.601174			6
Height Summation:			**62055.111023**				
Amount Avg CF:			**1192.671325**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 04:42:52
Instrument : CP 7--H5088B
Result file : 9p7190B.026.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**5**	**108.43**	
7.32	7.34	7.38	8273.381836	1069.657965			1
7.39	7.41	7.45	30759.003906	4241.361538			2
7.61	7.63	7.67	440.301971	60.295718			3
7.97	7.99	8.03	11973.166992	3783.460174			5
8.34	8.37	8.40	2670.518066	131.32465			6
Height Summation:			**54116.372771**				
Amount Avg CF:			**1857.220009**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			3366.3367	712.8713		21.22	4	40	
Aroclor-1221			3366.3367	910.8911			3	40	
Aroclor-1232			3366.3367	1584.1584		21.56	4	40	
Aroclor-1242			3366.3367	653.4654		15.28	4	40	
Aroclor-1248			3366.3367	653.4654		** 48.07	4	40	
Aroclor-1254			3366.3367	653.4654		12.10	4	40	
Aroclor-1260			3366.3367	970.297		24.43	4	40	
Aroclor-1262			3366.3367	653.4654		5.18	4	40	
Aroclor-1268			3366.3367	653.4654		** 43.58	4	40	
Total PCBs			3366.3367	653.4654					

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 6721494ACF DF200 AC49--0 T 121990024A 10736 Injection Volume: SW-846 8082
Injected On: 7/20/2012 4:42:52 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.026.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.525		1101	3642
1.639		1137	5297
1.78		1517	8978
2.053		545	1707
2.171		1978	7741
2.29		1129	3273
2.775		837	5112
2.903		4088	7934
3.008		760	1985
3.118		311	825
3.273		250	489
3.352		594	1581
3.483		2818	5371
3.555		166	214
3.6		346	1064
3.856	TCX	1346	2924
4.203		260	3356
4.289		1012	2579
4.839		324	2138
4.931		522	1020
5.024		718	4567
5.15		5468	18286
5.321		2427	5197
5.443		1691	3497
5.598		266	305
5.651		5663	7611
5.671		2572	2426
5.703		3470	4694
5.794		2883	3974
5.848		23331	38893
5.888		4748	6808
6.025		7843	14135
6.092		7775	13142
6.164		27151	44709
6.22		7053	11826
6.262		3391	3796
6.313		32864	80306
6.421		30365	58902
6.485		3638	5359
6.55		47135	149219
6.656		33731	68107
6.747		2161	2426
6.792		57403	125735
6.864		15551	23232
6.914		9336	15627
7.062		30626	82592
7.136		8642	13401
7.183		3941	5755
7.295		10718	20824
7.373		62544	168843
7.679		31618	63506
7.76		9369	23872
7.988		659	1736

ASX73 1167

RT A	Compound A	Height A	Area A
8.096		605	876
8.142		5806	13616
8.448		15596	41107
8.542		508	880
8.891		4208	16185
9.251	DCB	985	3165

ASX73 1168

LANCASTER LABORATORIES

Sample Number: 6721494ACF DF200 AC49--0 T 121990024A 10736 Injection Volume: 1 ulSW-846 8082
Injected On: 7/20/2012 4:42:52 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.026.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.603		10160	101274
2.195		485	1581
2.841		1196	3955
3.36		1007	3305
3.693	TCX	669	2580
4.118		350	774
4.539		195	1856
4.818		286	1722
4.977		2911	9667
5.168		1137	2256
5.301		766	1353
5.489		12370	30355
5.625		11304	17061
5.67		4223	10344
5.779		386	479
5.828		4594	9058
5.906		7150	11004
5.991		23763	71621
6.106		23227	49741
6.197		16435	38243
6.279		28987	61510
6.413		23131	42762
6.478		10683	15236
6.523		3531	4132
6.573		33747	92217
6.652		4606	6517
6.788		2321	4501
6.84		15345	39002
6.929		6199	9015
6.97		1918	5495
7.067		43205	96684
7.345		8273	14665
7.411		30759	69391
7.633		440	857
7.701		480	725
7.824		4897	11755
7.995		11973	32004
8.296		197	427
8.369		2671	6731
8.708	DCB	704	1787
8.886		320	1339
9.629		248	1373
10.589		493	11410

ASX73 1169

6721494ACF DF200 AC49--0 T 121990024A 10736 SW-846 8082

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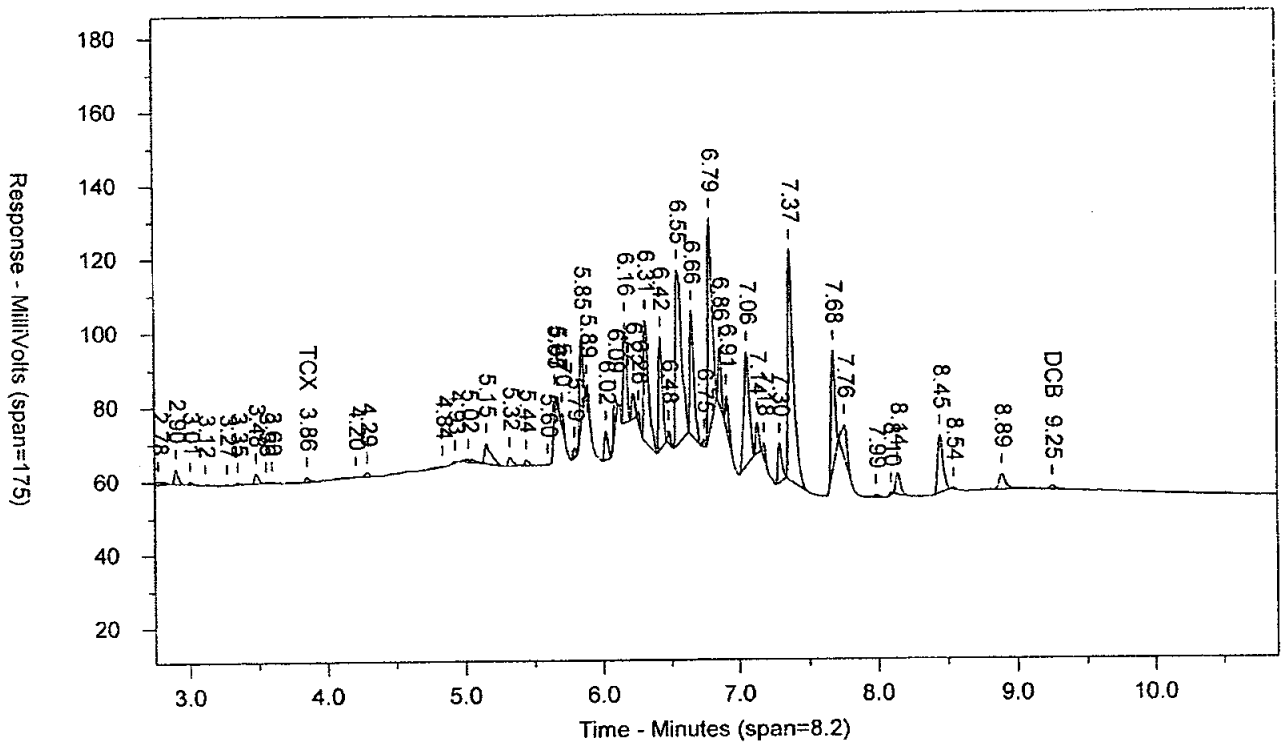

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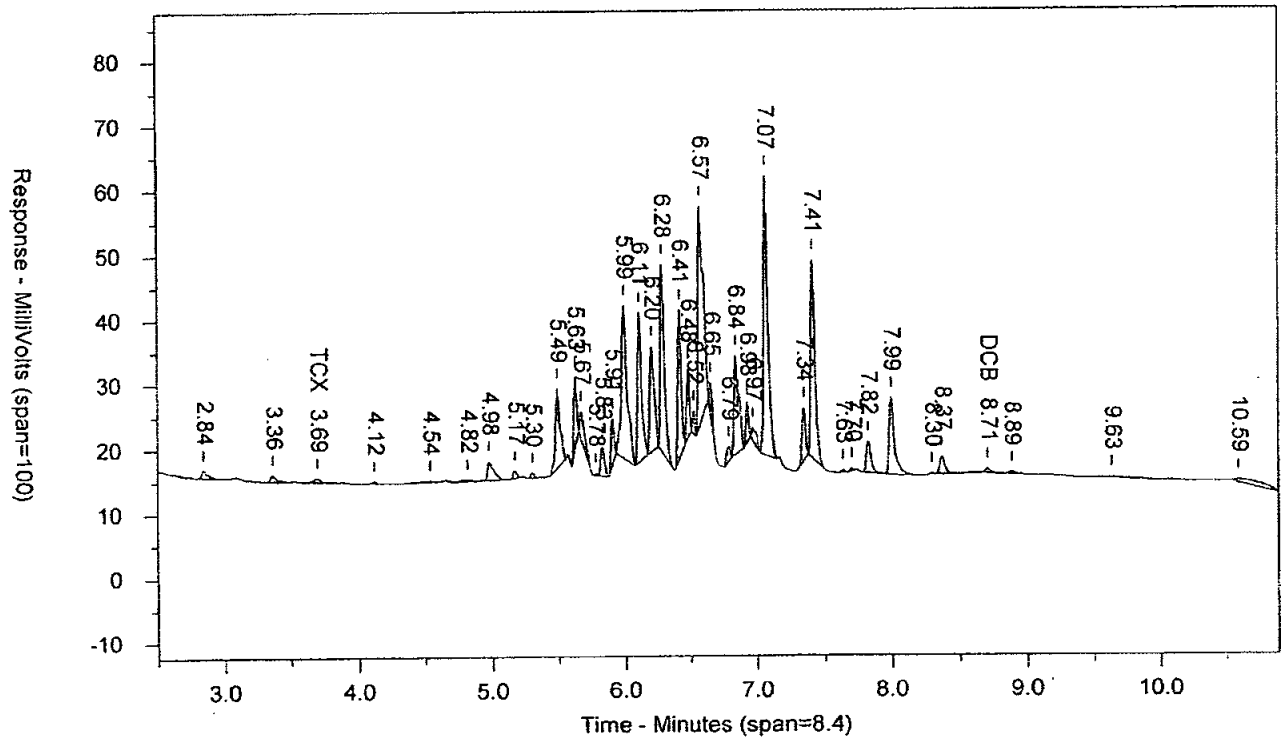

ASX73 1178

LANCASTER LABORATORIES

Sample Number: 6721494ACF DF200 AC49--0 T 121990024A 10736 Sample Weight: 36.8 SW-846 8082
Injected On: 7/20/2012 4:42:52 AM Dilution Factor: 2000
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.856	1346	8.318	TCX	3.693	669	11.994	TCX
9.251	985	-308.214	DCB	8.708	704	12.264	DCB

Files:
Area File: 9p7190.026.RAW
Area File: 9p7190B.026.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 4:53:27 AM
File Reported On: 7/20/2012 at 4:53:54 AM

ASX73 1171

6721494ACF DF200 AC49--0 T 121990024A 10736 SW-846 8082

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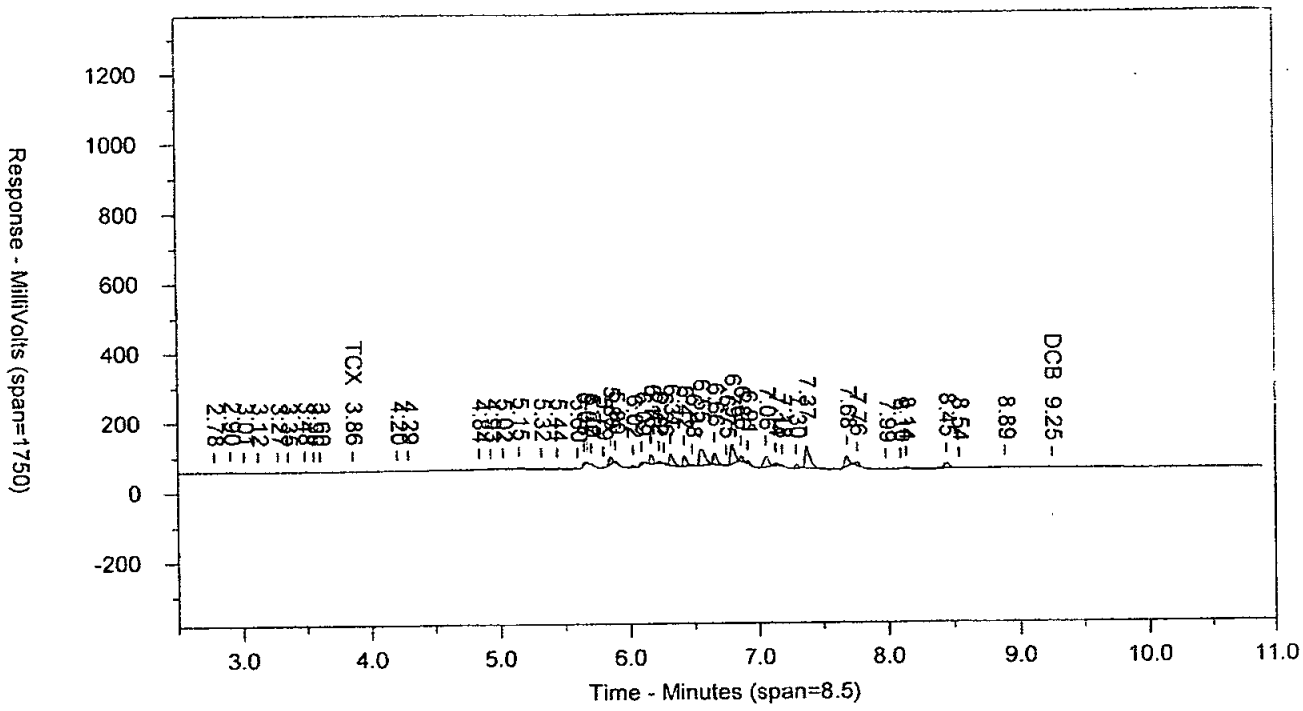

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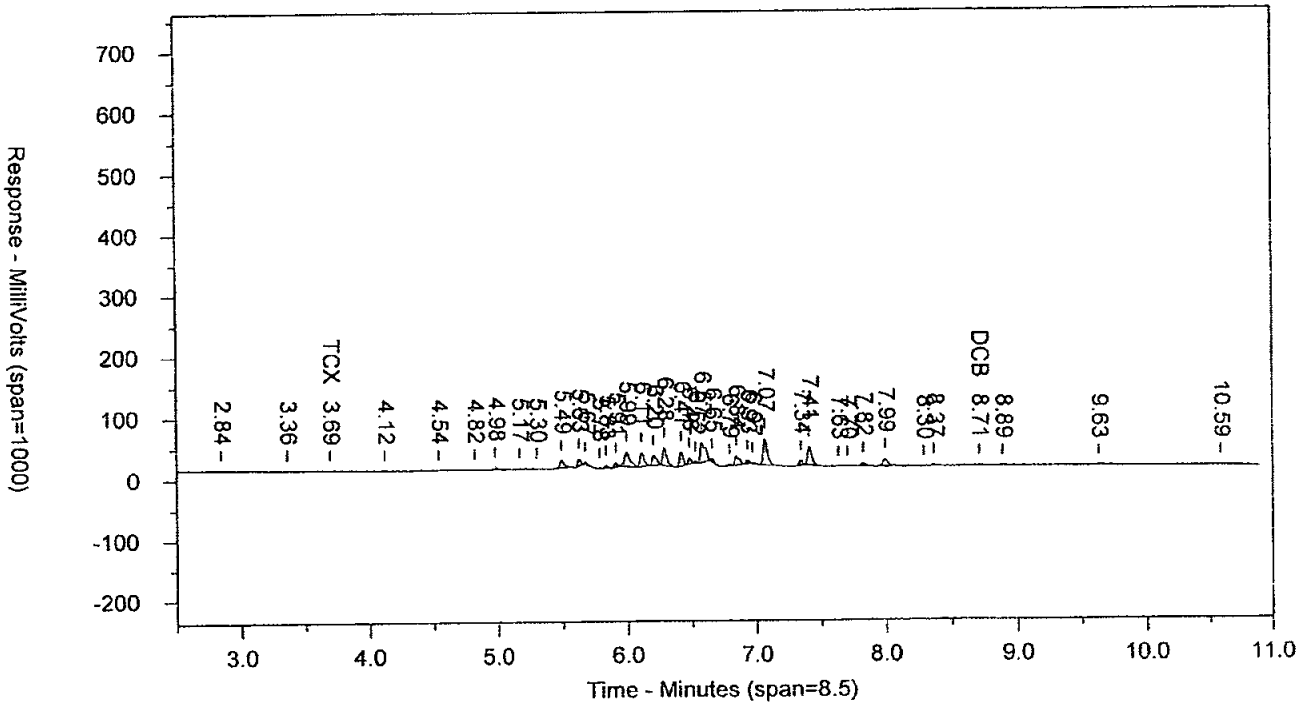

ASX73 1172

Data Summary

Sample Name: 6721495 ACF DF200 49--2 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 2000 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on Jul 20, 2012 05:27:02
Instrument H5088A
Result file 9P7190.029.RAW
Calibration file 1P7190
Method file PESTDI7

%SSR(TCX) 82% (33 - 143) Conc: 8.322876
%SSR(DCB) * 0% (24 - 164) Conc: 0

Analysis Report (B)

Injected on Jul 20, 2012 05:27:02
Instrument H5088B
Result file 9P7190B.029.RAW
Calibration file 1P7190B
Method file PESTDI7B

%SSR(TCX) * 192% (33 - 143) Conc: 19.583761
%SSR(DCB) 125% (24 - 164) Conc: 12.37564

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.85	3.88	1352	8.322876

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.66	3.69	3.72	1096	19.583761
Decachlorobiphenyl	8.68	8.70	8.74	713	12.37564

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	19.583761				80.70	
☑ Decachlorobiphenyl	B	12.37564				200.00	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**27.77**	
5.82	5.84	5.88	34949.941406	7879.605586			1
6.14	6.16	6.20	44158.011719	7895.827524			2
6.39	6.42	6.45	56437.898438	12405.073572			3
Height summation:			**135545.851563**				
Concentration		CF:	**9393.502227**	L:			
Aroclor-1260						**11.26**	
7.04	7.06	7.10	33676.25	8569.777113			4
7.35	7.37	7.41	60886.203125	7045.760497			5
7.65	7.68	7.71	31901.382813	7139.463333			6
Height summation:			**126463.835938**				
Concentration		CF:	**7585.000314**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**56.32**	
5.46	5.49	5.52	12526.712891	4633.257481			1
5.96	5.99	6.02	35318.753906	10572.593143			2
6.08	6.10	6.14	26703.591797	16561.72933			3
Height summation:			**74549.058594**				
Concentration		CF:	**10589.193318**	L:			
Aroclor-1260						**8.47**	
6.76	6.79	6.82	2436.820557	7498.042295			4
7.04	7.06	7.10	44626.46875	8694.706245			5
7.39	7.41	7.45	31700.105469	8739.068501			6
Height summation:			**78763.394776**				
Concentration		CF:	**8310.60568**	L:			

Data Summary

Sample Name: 6721495 ACF DF200 49--2 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 2000 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 05:27:02
Instrument	H5088A
Result file	9P7190.029.RAW
Calibration file	1P7190
Method file	PESTDI7

Analysis Report (B)

Injected on	Jul 20, 2012 05:27:02
Instrument	H5088B
Result file	9P7190B.029.RAW
Calibration file	1P7190B
Method file	PESTDI7B

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
☑	Aroclor-1016			<3355.2632	<710.5263			4	40	
☑	Aroclor-1221			<3355.2632	<907.8947			3	40	
☑	Aroclor-1232			<3355.2632	<1578.9474			4	40	
☑	Aroclor-1242			<3355.2632	<651.3158			4	40	
☑	Aroclor-1248			<3355.2632	<651.3158			4	40	
☑	Aroclor-1254	B	10589.193318	3355.2632	651.3158		11.97	4	40	
☑	Aroclor-1260	B	8310.60568	3355.2632	967.1053		9.13	4	40	
☐	Aroclor-1262			<3355.2632	<651.3158			4	40	
☐	Aroclor-1268			<3355.2632	<651.3158			4	40	
☐	Total PCBs	A	18899.798998	3355.2632	651.3158		200.00			

Units: ug/kg

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

Reviewed by: Monica M. Souders
Chemist
Date: JUL 20 2012

Verified by: Melissa A. McDermott
Melissa A. McDermott
Senior Chemist Group Leader
Date: AUG 03 2012

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: **6721495** ACF DF200 49--2 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 2000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 05:27:02
Instrument : CP 7--H5088A
Result file : 9p7190.029.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

%SSR(TCX) : 82% (33-143) Conc.: 8.322876
%SSR(DCB) : *-3104% (24-164) Conc.: -306.282166

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**5**	**166.42**	
4.17	4.19	4.23	275.79187	84.570297			1
4.64	4.66	4.70	240.26297	65.622421			2
4.89	4.93	4.95	590.307861	87.58507			3
5.03	5.05	5.09	841.738647	270.828732			5
5.29	5.32	5.35	5271.23291	1939.921611			6
Height Summation:			**7219.334258**				
Amount Avg CF:			**489.705626**	Linear:			
Aroclor-1221					**2**	**63.91**	
4.03	4.08	4.09	312.715881	173.322774			1
4.18	4.19	4.24	275.79187	65.434029			3
Height Summation:			**588.507751**				
Amount Avg CF:			**119.378402**	Linear:			
Aroclor-1232					**5**	**173.57**	
4.18	4.19	4.24	275.79187	66.213674			1
4.64	4.66	4.71	240.26297	136.16552			2
4.90	4.93	4.96	590.307861	169.905035			3
5.04	5.05	5.10	841.738647	538.770663			5
5.30	5.32	5.36	5271.23291	4081.101957			6
Height Summation:			**7219.334258**				
Amount Avg CF:			**998.43137**	Linear:			
Aroclor-1242					**5**	**165.90**	
4.18	4.19	4.24	275.79187	104.943474			1
4.64	4.66	4.70	240.26297	84.596063			2
4.89	4.93	4.96	590.307861	106.701221			3
5.03	5.05	5.09	841.738647	344.6449			5
5.30	5.32	5.36	5271.23291	2414.39509			6
Height Summation:			**7219.334258**				
Amount Avg CF:			**611.05615**	Linear:			
Aroclor-1248					**5**	**132.23**	
4.90	4.93	4.96	590.307861	170.840501			1
5.30	5.32	5.36	5271.23291	1465.781705			3
5.42	5.44	5.48	2842.033936	1105.408787			4
6.14	6.16	6.20	44158.011719	24498.394816			5
6.40	6.42	6.46	56437.898438	37570.294774			6
Height Summation:			**109299.484864**				
Amount Avg CF:			**12962.144117**	Linear:			
Aroclor-1254					**6**	**33.77**	
5.82	5.84	5.88	34949.941406	7879.605586			1
6.14	6.16	6.20	44158.011719	7895.827524			2
6.39	6.42	6.45	56437.898438	12405.073572			3
6.54	6.55	6.60	52498.972656	17389.245581			4
6.63	6.65	6.69	55446.863281	17558.564905			5
6.77	6.79	6.83	70974.203125	14996.60673			6
Height Summation:			**314465.890625**				
Amount Avg CF:			**13020.82065**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 05:27:02
Instrument : CP 7--H5088B
Result file : 9p7190B.029.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : *192% (33-143) Conc.: 19.583761
%SSR(DCB) : 125% (24-164) Conc.: 12.37564

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					**2**	**124.52**	
4.35	4.39	4.41	173.657166	86.575885			2
5.27	5.30	5.33	1424.479004	1362.58286			6
Height Summation:			**1598.136170**				
Amount Avg CF:			**724.579373**	Linear:			
Aroclor-1232					**2**	**125.64**	
4.35	4.39	4.41	173.657166	163.632391			2
5.28	5.30	5.34	1424.479004	2768.559053			6
Height Summation:			**1598.136170**				
Amount Avg CF:			**1466.095722**	Linear:			
Aroclor-1242					**2**	**124.18**	
4.35	4.39	4.41	173.657166	102.82435			2
5.28	5.30	5.34	1424.479004	1583.972348			6
Height Summation:			**1598.136170**				
Amount Avg CF:			**843.398349**	Linear:			
Aroclor-1248					**4**	**107.77**	
5.14	5.16	5.20	2496.321045	1761.590228			3
5.28	5.30	5.34	1424.479004	1223.685692			4
5.96	5.99	6.02	35318.753906	36961.661311			5
6.17	6.19	6.23	32438.263672	42812.761684			6
Height Summation:			**71677.817627**				
Amount Avg CF:			**20689.924729**	Linear:			
Aroclor-1254					**6**	**37.55**	
5.46	5.49	5.52	12526.712891	4633.257481			1
5.96	5.99	6.02	35318.753906	10572.593143			2
6.08	6.10	6.14	26703.591797	16561.72933			3
6.17	6.19	6.23	32438.263672	14288.310187			4
6.39	6.41	6.45	25499.576172	18119.018615			5
6.55	6.57	6.61	44323.722656	16488.837286			6
Height Summation:			**176810.621094**				
Amount Avg CF:			**13443.957674**	Linear:			
Aroclor-1260					**6**	**52.98**	
6.25	6.28	6.31	32891.617188	10140.339964			1
6.39	6.41	6.45	25499.576172	8770.564176			2
6.55	6.57	6.61	44323.722656	23103.853491			3
6.76	6.79	6.82	2436.820557	7498.042295			4
7.04	7.06	7.10	44626.46875	8694.706245			5
7.39	7.41	7.45	31700.105469	8739.068501			6
Height Summation:			**181478.310792**				
Amount Avg CF:			**11157.762445**	Linear:			
Aroclor-1262					**5**	**50.45**	
6.39	6.41	6.45	25499.576172	10587.924488			1
6.81	6.84	6.87	7660.900879	2406.506251			3
+ 6.81	6.87	6.87	5403.265137	1697.318832			3
7.04	7.06	7.10	44626.46875	6804.138846			4
7.39	7.41	7.45	31700.105469	6647.647636			5
7.97	7.99	8.03	11664.81543	4190.357474			6
Height Summation:			**121151.866700**				
Amount Avg CF:			**6127.314939**	Linear:			

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721495** ACF DF200 49--2 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 2000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 05:27:02
Instrument : CP 7--H5088A
Result file : 9p7190.029.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	21.36	
6.29	6.31	6.35	32471.03125	6531.087353			1
6.52	6.55	6.58	52498.972656	8807.300522			2
6.77	6.79	6.83	70974.203125	11320.418837			3
7.04	7.06	7.10	33676.25	8569.777113			4
7.35	7.37	7.41	60886.203125	7045.760497			5
7.65	7.68	7.71	31901.382813	7139.463333			6
Height Summation:			**282408.042969**				
Amount Avg CF:			**8235.634476**	Linear:			
Aroclor-1262					6	57.89	
6.52	6.55	6.58	52498.972656	12668.51204			1
6.84	6.86	6.90	11775.776367	2497.089861			2
7.04	7.06	7.10	33676.25	7295.889496			3
7.35	7.37	7.41	60886.203125	5697.197759			4
7.65	7.68	7.71	31901.382813	5343.250045			5
8.42	8.44	8.48	15245.077148	3651.064239			6
Height Summation:			**205983.662109**				
Amount Avg CF:			**6192.16724**	Linear:			
Aroclor-1268					6	89.11	
7.65	7.68	7.71	31901.382813	2636.006487			1
7.74	7.76	7.80	8713.703125	836.798807			2
7.97	7.98	8.03	482.548767	44.268076			3
+ 8.08	8.09	8.14	636.675598	234.218987			4
8.08	8.14	8.14	5859.530762	2155.592836			4
8.43	8.44	8.49	15245.077148	3126.987488			5
8.87	8.89	8.93	4010.615479	131.667439			6
Height Summation:			**66212.858094**				
Amount Avg CF:			**1488.553522**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 05:27:02
Instrument : CP 7--H5088B
Result file : 9p7190B.029.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					5	111.27	
7.32	7.34	7.38	7402.748047	953.94615			1
7.39	7.41	7.45	31700.105469	4356.751247			2
7.61	7.63	7.67	382.868744	52.25824			3
7.97	7.99	8.03	11664.81543	3673.897445			5
8.34	8.36	8.40	2526.171143	123.817643			6
Height Summation:			**53676.708833**				
Amount Avg CF:			**1832.134145**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			3355.2632	710.5263		38.69	4	40	
Aroclor-1221			3355.2632	907.8947			3	40	
Aroclor-1232			3355.2632	1578.9474		37.95	4	40	
Aroclor-1242			3355.2632	651.3158		31.95	4	40	
Aroclor-1248			3355.2632	651.3158		** 45.93	4	40	
Aroclor-1254			3355.2632	651.3158		3.20	4	40	
Aroclor-1260			3355.2632	967.1053		30.14	4	40	
Aroclor-1262			3355.2632	651.3158		1.05	4	40	
Aroclor-1268			3355.2632	651.3158		20.69	4	40	
Total PCBs			3355.2632	651.3158					

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 6721495ACF DF200 AC49--2 T 121990024A 10736 Injection Volume: $W-846 8082
Injected On: 7/20/2012 5:27:02 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.029.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.547		1733	7111
1.644		2590	10633
1.78		3872	21859
2.048		572	2251
2.17		2943	12898
2.289		2155	7916
2.395		809	3456
2.548		236	563
2.769		550	1074
2.9		6724	13231
3.004		789	1941
3.115		608	1684
3.269		556	1054
3.346		1360	3691
3.423		294	528
3.481		3417	7217
3.551		496	627
3.597		918	2593
3.758		153	266
3.853	TCX	1352	3369
3.954		166	195
3.996		355	651
4.085		313	739
4.194		276	933
4.286		1178	3391
4.466		471	1693
4.66		240	2485
4.836		306	2562
4.931		590	1172
5.051		842	4473
5.148		8866	31096
5.318		5271	11489
5.439		2842	4844
5.586		621	1039
5.649		8186	9878
5.669		4423	3937
5.702		9322	13413
5.791		3701	5046
5.844		34950	57702
5.885		10976	15802
6.023		14237	25541
6.087		15162	22402
6.121		5850	5521
6.16		44158	74630
6.214		4153	6504
6.261		6940	8447
6.31		32471	80385
6.418		56438	112708
6.479		1713	1765
6.548		52499	166851
6.653		55447	113581
6.742		2292	2567
6.789		70974	160216

RT A	Compound A	Height A	Area A
6.86		11776	16710
6.912		8924	15106
7.058		33676	93931
7.133		7662	11716
7.18		4267	6297
7.293		14308	27653
7.37		60886	161829
7.676		31901	62481
7.756		8714	23541
7.983		483	1095
8.093		637	1018
8.138		5860	13575
8.443		15245	40019
8.536		490	860
8.887		4011	18193
9.247	DCB	1051	3674

ASX73 1178

LANCASTER LABORATORIES

Sample Number: 6721495ACF DF200 AC49--2 T 121990024A 10736 Injection Volume: 1 ulSW-846 8082
Injected On: 7/20/2012 5:27:02 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.029.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.606		9884	73995
1.738		3979	16237
1.923		1344	4407
2.193		695	2058
2.296		438	1340
2.839		2074	7111
3.357		1079	2229
3.527		270	719
3.688	TCX	1096	5221
4.114		416	1640
4.389		174	821
4.813		381	2057
4.974		4678	15586
5.165		2496	4895
5.298		1424	2534
5.486		12527	18447
5.622		16378	23936
5.669		10290	28221
5.777		647	790
5.826		8699	16861
5.904		13115	19522
5.985		35319	96070
6.104		26704	57452
6.194		32438	68973
6.276		32892	70355
6.41		25500	46072
6.476		22939	33577
6.519		3091	3458
6.57		44324	113241
6.649		4333	5671
6.789		2437	4501
6.838		7661	9746
6.868		5403	6948
6.926		5390	7542
6.968		2216	5674
7.064		44626	104441
7.342		7403	13018
7.408		31700	72112
7.63		383	708
7.697		778	2202
7.82		4983	12225
7.992		11665	31028
8.293		288	595
8.365		2526	6210
8.554		148	864
8.703	DCB	713	1824
8.883		651	4441
9.622		422	1866
10.583		677	13100

ASX73 1179

6721495ACF DF200 AC49--2 T 121990024A 10736 SW-846 8082

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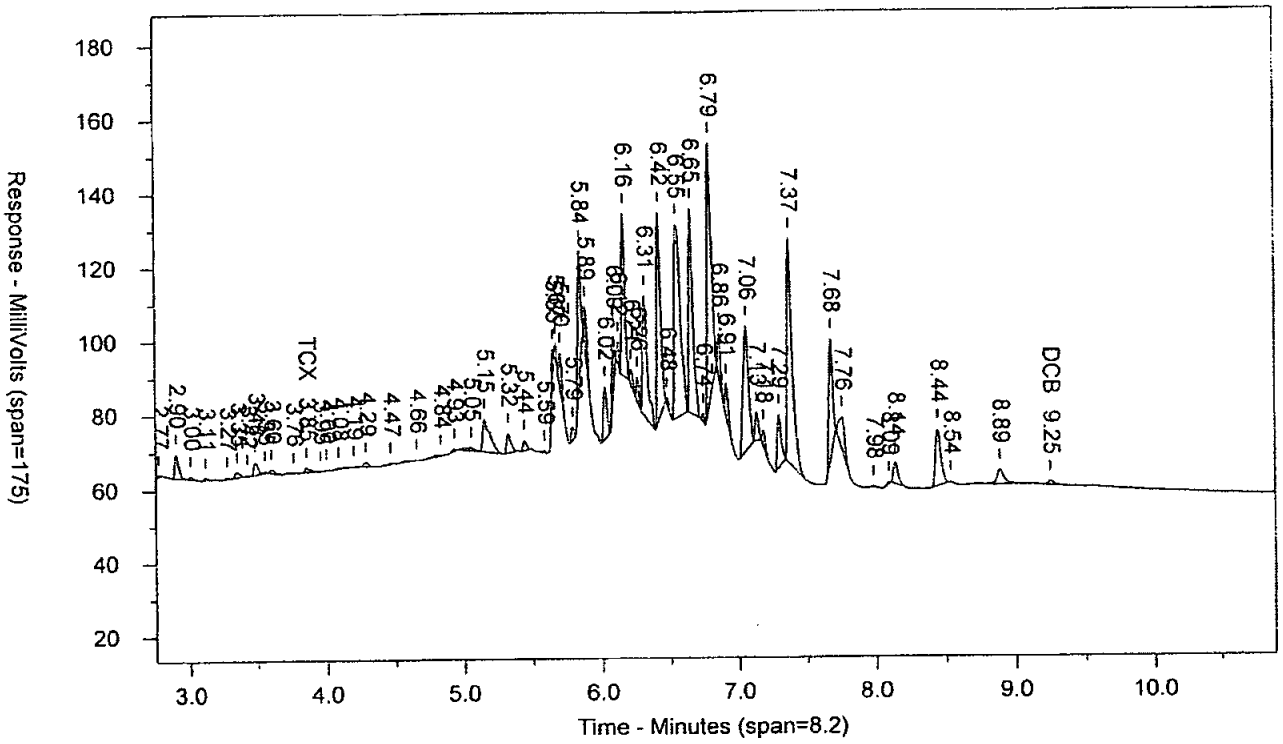

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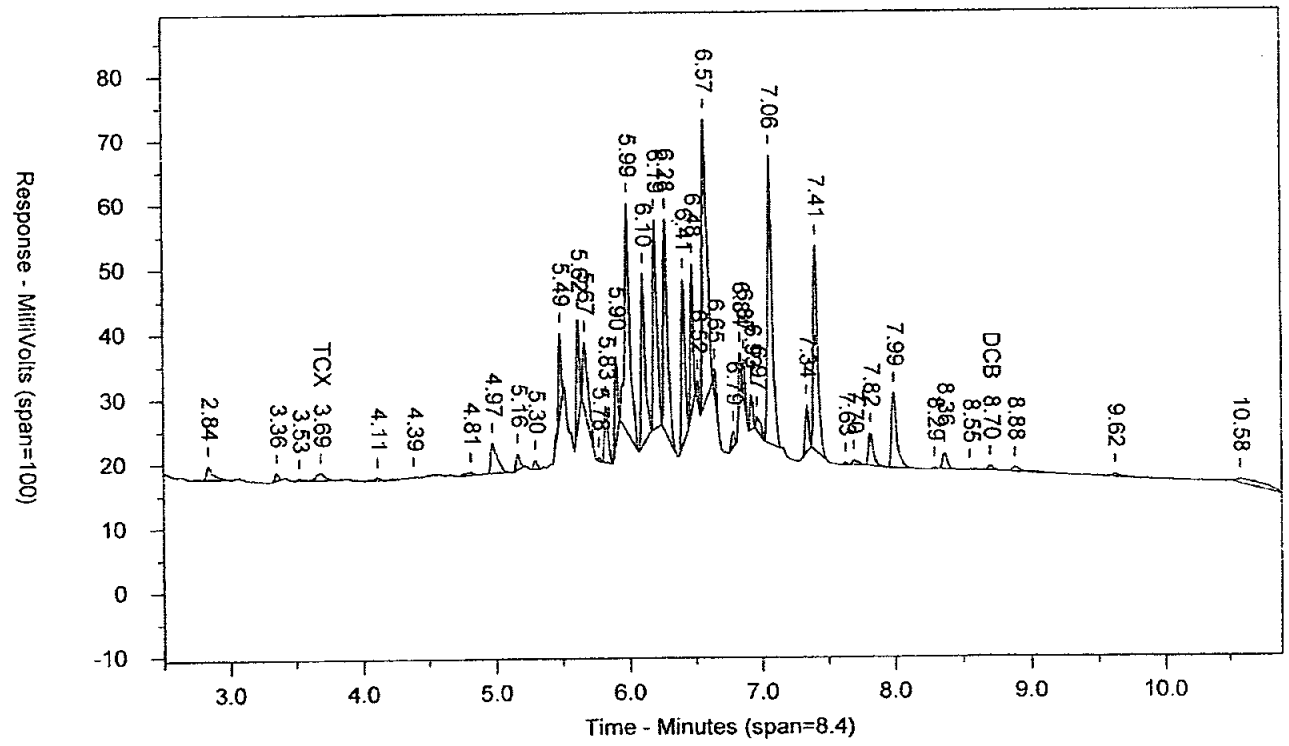

ASX23 1188

LANCASTER LABORATORIES

Sample Number: 6721495ACF DF200 AC49--2 T 121990024A 10736 Sample Weight: 38W-846 8082
Injected On: 7/20/2012 5:27:02 AM Dilution Factor: 2000
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.853	1352	8.323	TCX	3.688	1096	19.584	TCX
9.247	1051	-306.282	DCB	8.703	713	12.376	DCB

Files:
Area File: 9p7190.029.RAW
Area File: 9p7190B.029.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 5:37:37 AM
File Reported On: 7/20/2012 at 5:38:04 AM

ASX73 1181

6721495ACF DF200 AC49--2 T 121990024A 10736 SW-846 8082

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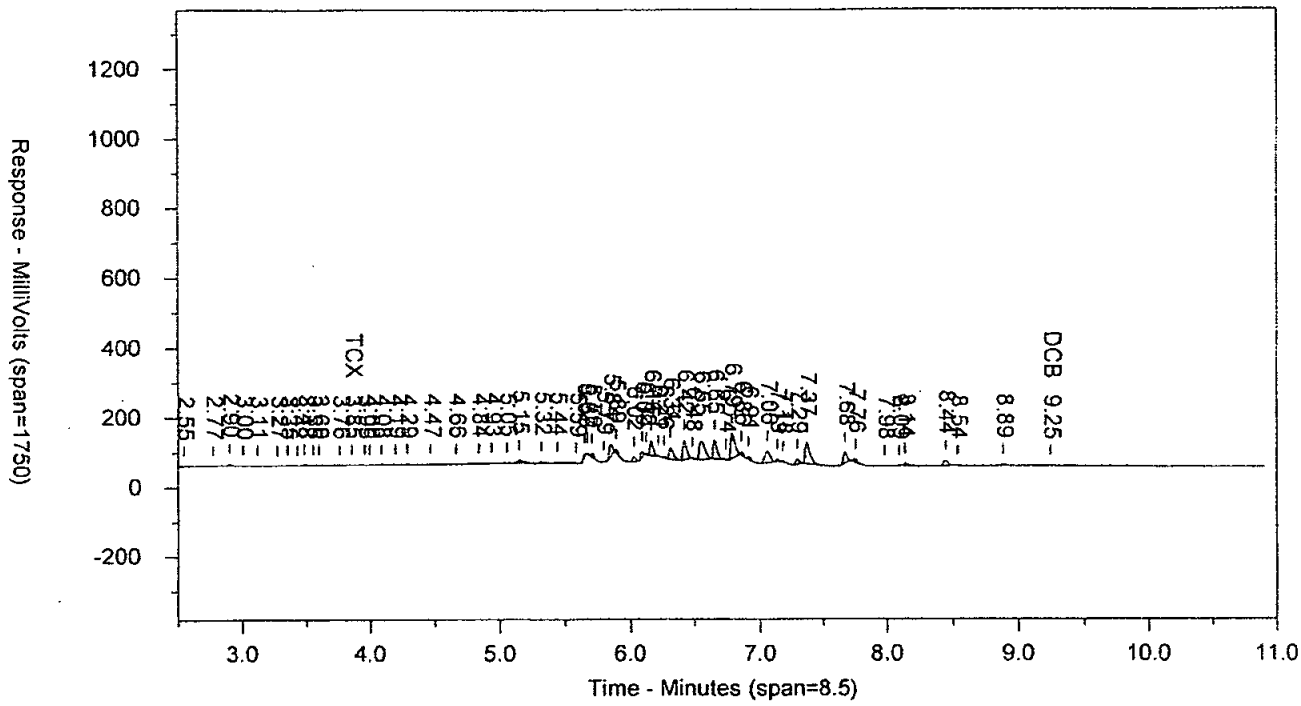

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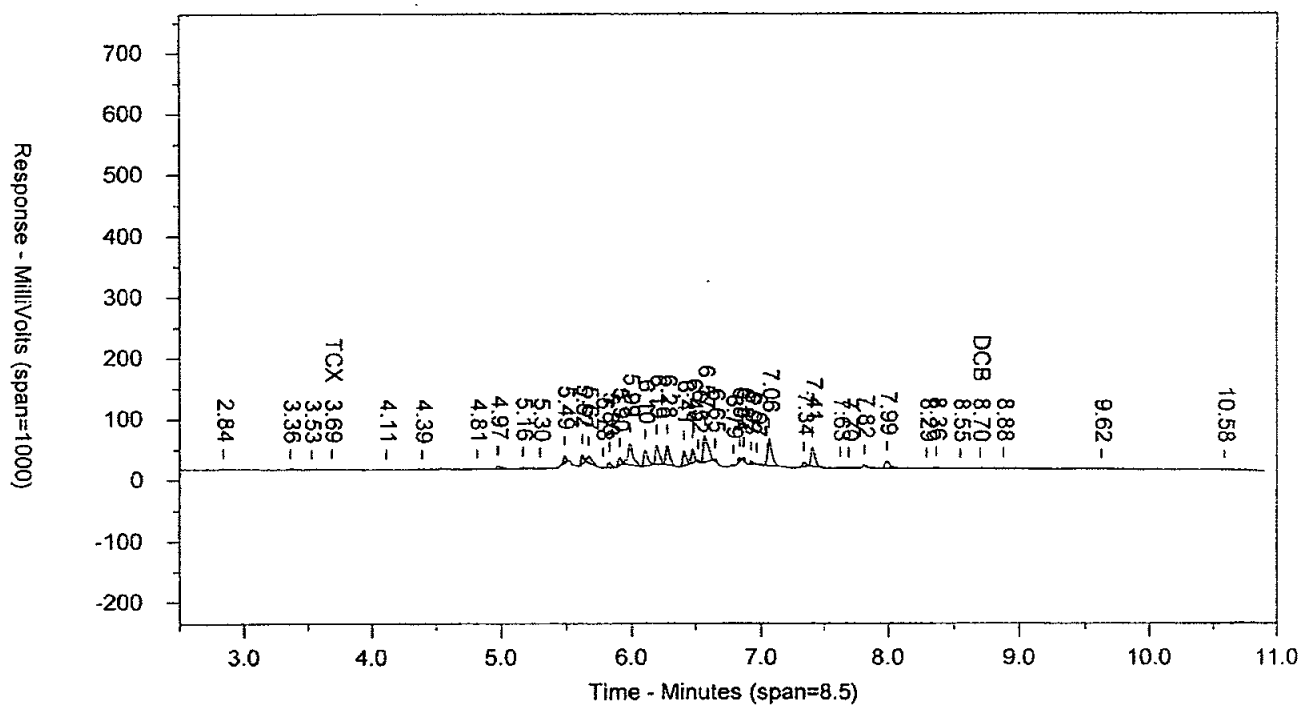

ASX73 1162

Data Summary

Sample Name: 6721496 ACF DF25 49--4 Sample ID: AD **Batchnumber: 121990024A**
Sample Amount: 30.5 g Total Volume: 250 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 24, 2012 23:56:00
Instrument	17342A
Result file	3P20205.0009.RAW
Calibration file	1P20205
Method file	PESTDI20

%SSR(TCX) * 153% (33 - 143) Conc: 15.486154
%SSR(DCB) 157% (24 - 164) Conc: 15.415188

Analysis Report (B)

Injected on	Jul 24, 2012 23:56:00
Instrument	17342B
Result file	3P20205B.0009.RAW
Calibration file	1P20205B
Method file	PESTDI20B

%SSR(TCX) 110% (33 - 143) Conc: 11.165435
%SSR(DCB) 104% (24 - 164) Conc: 10.250496

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.29	3.31	3.33	480777	15.486154	Tetrachloro-m-xylene	3.05	3.07	3.09	4915603	11.165435
Decachlorobiphenyl	7.18	7.20	7.22	189131	15.415188	Decachlorobiphenyl	6.76	6.78	6.80	2247953	10.250496

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
✓	Tetrachloro-m-xylene	A	15.486154				32.42	
✓	Decachlorobiphenyl	A	15.415188				40.25	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**37.62**	
4.27	4.29	4.33	138971.64062	233.75543			1
5.06	5.09	5.13	370877.625	465.513759			2
5.13	5.16	5.19	771301.25	523.60255			3
Height summation:			**1281150.515625**				
Concentration		CF:	**407.623913**	L:			
Aroclor-1260						**11.81**	
5.73	5.76	5.79	308719.28125	434.301931			4
6.14	6.16	6.20	911197.1875	534.578684			5
6.34	6.37	6.40	529933	539.527524			6
Height summation:			**1749849.46875**				
Concentration		CF:	**502.802713**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**12.04**	
4.40	4.43	4.46	5962278.5	342.010039			1
4.51	4.54	4.57	6740643.5	426.756889			2
4.75	4.77	4.81	5864973.5	422.84322			3
Height summation:			**18567895.5**				
Concentration		CF:	**397.203383**	L:			
Aroclor-1260						**7.25**	
5.63	5.65	5.69	2568724.75	374.329698			4
5.74	5.76	5.80	13181336	432.208373			5
6.38	6.40	6.44	2376275.75	398.086435			6
Height summation:			**18126336.5**				
Concentration		CF:	**401.541502**	L:			

Data Summary

Sample Name: 6721496 ACF DF25 49--4 Sample ID: AD **Batchnumber: 121990024A**
Sample Amount: 30.5 g Total Volume: 250 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 24, 2012 23:56:00
Instrument	17342A
Result file	3P20205.0009.RAW
Calibration file	1P20205
Method file	PESTDI20

Analysis Report (B)

Injected on	Jul 24, 2012 23:56:00
Instrument	17342B
Result file	3P20205B.0009.RAW
Calibration file	1P20205B
Method file	PESTDI20B

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
☑	Aroclor-1016			<418.0328	<88.5246			4	40	
☑	Aroclor-1221			<418.0328	<113.1148			3	40	
☑	Aroclor-1232			<418.0328	<196.7213			4	40	
☑	Aroclor-1242			<418.0328	<81.1475			4	40	
☑	Aroclor-1248			<418.0328	<81.1475			4	40	
☑	Aroclor-1254	A	407.623913	<418.0328	81.1475	J	2.59	4	40	
☑	Aroclor-1260	A	502.802713	418.0328	120.4918		22.39	4	40	
☐	Aroclor-1262			<418.0328	<81.1475			4	40	
☐	Aroclor-1268			<418.0328	<81.1475			4	40	
☐	Total PCBs	A	910.426626	418.0328	81.1475		200.00			

Units: ug/kg

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

Reviewed by: Monica M. Souders
Chemist
Date: JUL 26 2012

Verified by: Melissa A. McDermott
Senior Chemist Group Leader
Date: JUL 26 2012

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: **6721496** ACF DF25 49--4 Sample ID: AD **Batchnumber: 121990024A**
Sample Amount: 30.5 g Total Volume: 250 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 24, 2012 23:56:00
Instrument : P 20--17342A
Result file : 3p20205.0009.RAW
Calibration file : 1p20205.CAL
Method file : PESTDI20.MET

%SSR(TCX) : 153% (33-143) Conc.: 15.486154
%SSR(DCB) 157% (24-164) Conc.: 15.415188

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	131.53	
3.54	3.56	3.60	21914.490234	35.767233			1
3.89	3.90	3.95	10380.369141	14.628716			2
4.13	4.16	4.19	4698.396484	5.878652			3
4.20	4.22	4.26	9996.984375	14.016146			4
4.27	4.29	4.33	138971.64062	293.939078			5
+ 4.27	4.33	4.33	45004.898438	95.189913			5
4.41	4.43	4.47	94043.179688	179.952992			6
+ 4.41	4.46	4.47	12564.928711	24.043174			6
Height Summation:			**280005.060547**				
Amount Avg CF:			**90.697136**	Linear:			
Aroclor-1221					3	63.18	
3.43	3.47	3.49	1929.184326	5.698856			1
3.49	3.51	3.55	10464.52832	29.718792			2
3.54	3.56	3.60	21914.490234	25.136241			3
Height Summation:			**34308.202880**				
Amount Avg CF:			**20.18463**	Linear:			
Aroclor-1232					6	142.52	
3.54	3.56	3.60	21914.490234	26.336779			1
3.89	3.90	3.95	10380.369141	24.789173			2
4.13	4.16	4.19	4698.396484	9.702645			3
4.20	4.22	4.26	9996.984375	23.954506			4
4.27	4.29	4.33	138971.64062	564.650503			5
+ 4.27	4.33	4.33	45004.898438	182.857729			5
4.41	4.43	4.47	94043.179688	326.294958			6
+ 4.41	4.46	4.47	12564.928711	43.595643			6
Height Summation:			**280005.060547**				
Amount Avg CF:			**162.621427**	Linear:			
Aroclor-1242					6	133.68	
3.54	3.56	3.60	21914.490234	40.879173			1
3.89	3.90	3.95	10380.369141	16.225363			2
4.13	4.16	4.19	4698.396484	6.401727			3
4.20	4.22	4.26	9996.984375	15.440179			4
4.27	4.29	4.33	138971.64062	341.325829			5
+ 4.27	4.33	4.33	45004.898438	110.535748			5
4.41	4.43	4.47	94043.179688	192.463877			6
+ 4.41	4.46	4.47	12564.928711	25.714729			6
Height Summation:			**280005.060547**				
Amount Avg CF:			**102.122691**	Linear:			
Aroclor-1248					7	107.35	
4.20	4.22	4.26	9996.984375	23.585868			1
4.41	4.43	4.47	94043.179688	121.014644			2
+ 4.41	4.46	4.47	12564.928711	16.168534			2
4.51	4.54	4.57	63584.238281	91.762707			3
4.71	4.71	4.77	310878.875	470.960805			4
+ 4.71	4.73	4.77	199377.9375	302.044305			4
4.71	4.76	4.77	261311.84375	395.870051			4
4.85	4.88	4.91	670704.75	877.63097			5
5.13	5.16	5.19	771301.25	1517.650149			6
Height Summation:			**2181821.121094**				
Amount Avg CF:			**499.782171**	Linear:			

Analysis Report (B)

Injected on : JUL 24, 2012 23:56:00
Instrument : P 20--17342B
Result file : 3p20205B.0009.RAW
Calibration file : 1P20205b.CAL
Method file : PESTDI20B.MET

%SSR(TCX) : 110% (33-143) Conc.: 11.165435
%SSR(DCB) : 104% (24-164) Conc.: 10.250496

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	97.83	
+ 3.33	3.33	3.39	254278.75	36.401034			1
3.33	3.39	3.39	501829.1875	71.838884			1
3.67	3.70	3.73	83497.695313	10.088675			2
3.88	3.89	3.94	90296.6875	9.47782			3
+ 3.88	3.93	3.94	10854.742188	1.139347			3
+ 3.96	3.98	4.02	10258.838867	0.999269			4
3.96	4.00	4.02	113096.57031	11.016247			4
4.15	4.20	4.21	235518.54687	37.970473			5
4.25	4.28	4.31	732143.4375	106.572015			6
Height Summation:			**1756382.125001**				
Amount Avg CF:			**41.160686**	Linear:			
Aroclor-1221					3	96.83	
+ 3.21	3.22	3.27	10067.251953	2.856406			1
3.21	3.23	3.27	1085741.25	308.060029			1
+ 3.27	3.30	3.33	73610.945313	23.72058			2
+* 3.33	3.33	3.39	254278.75	24.317805			3
* 3.27	3.33	3.33	254278.75	81.939436			2
3.33	3.39	3.39	501829.1875	47.992151			3
Height Summation:			**1841849.187500**				
Amount Avg CF:			**145.997205**	Linear:			
Aroclor-1232					6	112.01	
+ 3.33	3.33	3.39	254278.75	25.368118			1
3.33	3.39	3.39	501829.1875	50.064986			1
3.67	3.70	3.73	83497.695313	18.356481			2
3.88	3.89	3.94	90296.6875	17.39825			3
+ 3.88	3.93	3.94	10854.742188	2.091478			3
+ 3.96	3.98	4.02	10258.838867	1.930655			4
3.96	4.00	4.02	113096.57031	21.284131			4
4.14	4.20	4.20	235518.54687	91.14864			5
4.25	4.28	4.31	732143.4375	215.614848			6
Height Summation:			**1756382.125001**				
Amount Avg CF:			**68.977889**	Linear:			
Aroclor-1242					6	93.97	
+ 3.33	3.33	3.39	254278.75	41.858305			1
3.33	3.39	3.39	501829.1875	82.609023			1
3.67	3.70	3.73	83497.695313	11.898697			2
3.88	3.89	3.94	90296.6875	11.021911			3
+ 3.88	3.93	3.94	10854.742188	1.324966			3
+ 3.96	3.98	4.02	10258.838867	1.212881			4
3.96	4.00	4.02	113096.57031	13.371173			4
4.14	4.20	4.21	235518.54687	51.474893			5
4.25	4.28	4.31	732143.4375	121.088671			6
Height Summation:			**1756382.125001**				
Amount Avg CF:			**48.577395**	Linear:			

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721496** ACF DF25 49--4 Sample ID: AD **Batchnumber: 121990024A**
Sample Amount: 30.5 g Total Volume: 250 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 24, 2012 23:56:00
Instrument : P 20--17342A
Result file : 3p20205.0009.RAW
Calibration file : 1p20205.CAL
Method file : PESTDI20.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	48.45	
4.27	4.29	4.33	138971.64062	233.75543			1
+ 4.27	4.33	4.33	45004.898438	~~75.500001~~			1
5.06	5.09	5.13	370877.625	465.513759			2
5.13	5.16	5.19	771301.25	523.60255			3
5.35	5.38	5.41	947200.1875	836.407526			4
5.56	5.58	5.62	993020.625	1070.996486			5
5.67	5.70	5.73	1063766.125	1019.83116			6
+ 5.67	5.72	5.73	40198.921875	38.538653			6
Height Summation:			**4285137.453125**				
Amount Avg CF:			**691.684485**	Linear:			
Aroclor-1260					7	68.67	
+ 5.46	5.46	5.52	11013.632813	11.140291			1
5.46	5.49	5.52	622763.1875	629.925019			1
5.46	5.51	5.52	125613.25	127.057813			1
5.55	5.58	5.61	993020.625	1586.155619			2
5.67	5.70	5.73	1063766.125	778.231877			3
+ 5.67	5.72	5.73	40198.921875	29.408797			3
+ 5.73	5.74	5.79	9165.029297	12.893234			4
5.73	5.76	5.79	308719.28125	434.301931			4
6.14	6.16	6.20	911197.1875	534.578684			5
+ 6.14	6.19	6.20	12336.189453	~~7.237362~~			5
6.34	6.37	6.40	529933	539.527524			6
Height Summation:			**4555012.656250**				
Amount Avg CF:			**661.396924**	Linear:			
Aroclor-1262					7	82.13	
+ 5.46	5.46	5.52	11013.632813	11.304653			1
5.46	5.49	5.52	622763.1875	639.218841			1
5.46	5.51	5.52	125613.25	128.932406			1
5.67	5.70	5.73	1063766.125	1288.270453			2
+ 5.67	5.72	5.73	40198.921875	48.682772			2
+ 5.73	5.74	5.79	9165.029297	7.498832			3
5.73	5.76	5.79	308719.28125	252.5943			3
+ 5.90	5.91	5.96	108343.9375	107.320273			4
5.90	5.93	5.96	204062.90625	202.134861			4
6.13	6.16	6.19	911197.1875	427.815787			5
+ 6.13	6.19	6.19	12336.189453	5.791959			5
6.34	6.37	6.40	529933	427.933059			6
Height Summation:			**3766054.937500**				
Amount Avg CF:			**480.985672**	Linear:			
Aroclor-1268					6	86.95	
6.34	6.37	6.40	529933	219.143594			1
6.40	6.42	6.46	161366.04687	77.045885			2
6.54	6.56	6.60	13850.037109	7.382067			3
+ 6.60	6.62	6.66	16265.043945	29.652603			4
6.60	6.65	6.66	101392.49218	184.847417			4
6.78	6.80	6.84	232175.51562	261.59813			5
7.00	7.02	7.06	48520.914063	9.484628			6
Height Summation:			**1087238.005860**				
Amount Avg CF:			**126.58362**	Linear:			

Analysis Report (B)

Injected on : JUL 24, 2012 23:56:00
Instrument : P 20--17342B
Result file : 3p20205B.0009.RAW
Calibration file : 1P20205b.CAL
Method file : PESTDI20B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1248					8	121.94	
4.00	4.03	4.06	1437190.125	160.900953			1
+ 4.00	4.05	4.06	511899.15625	57.309788			1
4.15	4.20	4.21	235518.54687	29.586256			2
4.25	4.28	4.31	732143.4375	88.164336			3
+ 4.40	4.40	4.46	1508818	90.938406			4
4.40	4.43	4.46	5962278.5	359.354212			4
4.40	4.46	4.46	2801687	168.861287			4
4.56	4.58	4.62	4165266.75	573.532335			5
4.56	4.60	4.62	683747.75	94.147978			5
+ 4.56	4.62	4.62	487305.53125	67.099059			5
4.81	4.84	4.88	10159260	1294.255909			6
Height Summation:			**26177092.109375**				
Amount Avg CF:			**346.100408**	Linear:			
Aroclor-1254					7	45.73	
+ 4.40	4.40	4.46	1508818	~~86.549270~~			1
4.40	4.43	4.46	5962278.5	342.010039			1
4.40	4.46	4.46	2801687	~~160.711325~~			1
4.51	4.54	4.57	6740643.5	~~426.755889~~			2
4.75	4.77	4.81	5864973.5	422.84322			3
4.81	4.84	4.87	10159260	438.131734			4
4.99	5.02	5.05	11793548	715.975558			5
+ 4.99	5.04	5.05	1099482.75	66.748596			5
5.32	5.35	5.38	14064691	786.177465			6
+ 5.32	5.37	5.38	2328219.25	130.14104			6
Height Summation:			**57387081.500000**				
Amount Avg CF:			**470.372304**	Linear:			
Aroclor-1260					6	12.48	
5.18	5.21	5.24	8976663	498.673247			1
+ 5.39	5.40	5.45	165781.35937	23.23999			2
5.39	5.42	5.45	2710883	380.023992			2
5.55	5.58	5.61	4736346	361.975619			3
+ 5.55	5.61	5.61	3696118	282.476112			3
5.63	5.65	5.69	2568724.75	~~374.329698~~			4
5.74	5.76	5.80	13181336	432.208373			5
6.38	6.40	6.44	2376275.75	398.086435			6
+ 6.38	6.44	6.44	127807.63281	~~21.411019~~			6
Height Summation:			**34550228.500000**				
Amount Avg CF:			**407.549561**	Linear:			
Aroclor-1262					6	31.78	
5.35	5.37	5.41	2328219.25	111.75021			1
+* 5.39	5.40	5.45	165781.35937	18.458912			2
+* 5.35	5.40	5.41	165781.35937	7.957198			1
5.39	5.42	5.45	2710883	301.843047			2
5.55	5.58	5.61	4736346	239.904194			3
+ 5.55	5.61	5.61	3696118	187.21483			3
5.63	5.65	5.69	2568724.75	315.443794			4
5.74	5.76	5.80	13181336	318.023945			5
6.38	6.40	6.44	2376275.75	218.572442			6
+ 6.38	6.44	6.44	127807.63281	11.755886			6
Height Summation:			**27901784.750000**				
Amount Avg CF:			**250.922939**	Linear:			

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721496** ACF DF25 49--4 Sample ID: AD **Batchnumber: 121990024A**
Sample Amount: 30.5 g Total Volume: 250 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 24, 2012 23:56:00
Instrument : P 20--17342A
Result file : 3p20205.0009.RAW
Calibration file : 1p20205.CAL
Method file : PESTDI20.MET

Analysis Report (B)

Injected on : JUL 24, 2012 23:56:00
Instrument : P 20--17342B
Result file : 3p20205B.0009.RAW
Calibration file : 1P20205b.CAL
Method file : PESTDI20B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**6**	**127.07**	
+ 5.96	5.96	6.02	87639.171875	2.134855			1
5.96	5.98	6.02	1415688	34.485595			1
6.00	6.03	6.06	9263869	207.186041			2
6.16	6.19	6.22	151961.64062	6.570141			3
6.23	6.26	6.29	78058.710938	10.7685			4
6.38	6.40	6.44	2376275.75	200.257509			5
+ 6.38	6.44	6.44	127807.63281	10.77082			5
6.59	6.61	6.65	533104.625	5.408203			6

Height Summation: **13818957.726563**
Amount Avg CF: **77.445998** Linear:

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			418.0328	88.5246		** 75.14	4	40	
Aroclor-1221			418.0328	113.1148		** 151.42	3	40	
Aroclor-1232			418.0328	196.7213		** 80.87	4	40	
Aroclor-1242			418.0328	81.1475		** 71.06	4	40	
Aroclor-1248			418.0328	81.1475		36.34	4	40	
Aroclor-1254			418.0328	81.1475		38.09	4	40	
Aroclor-1260			418.0328	120.4918		** 47.49	4	40	
Aroclor-1262			418.0328	81.1475		** 62.87	4	40	
Aroclor-1268			418.0328	81.1475		** 48.17	4	40	
Total PCBs			418.0328	81.1475					

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 6721496ACF DF25 AD49--4 T 121990024A 10736 Injection Volume: 1 uSW-846 8082
Injected On: 7/24/2012 11:55:59 PM Analyst: 2855
Instrument ID: CP20-17342
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: 3p20205.0009.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.509		8033	4849
2.554		1938045	1569196
2.662		34440	26740
2.693		5740	8243
2.737		20299	21302
2.793		9212	6288
2.846		2322	708
2.928		2603	2109
2.944		48537	31784
3.02		730492	561118
3.112		1907	1467
3.153		3619	6506
3.176		4748	4505
3.249		1698	1075
3.306	TCX	480777	351241
3.328		7615	3846
3.411		110157	76998
3.473		1929	1907
3.511		10465	10580
3.562		21914	17298
3.605		1627	367
3.627		40497	35262
3.665		2133	755
3.72		2083	902
3.732		2244	2623
3.789		7426	5995
3.873		1888	2335
3.904		10380	14940
3.995		1721	2134
4.074		5638	5164
4.102		4308	2483
4.116		9522	9138
4.16		4698	3903
4.223		9997	12486
4.295		138972	121189
4.326		45005	64170
4.435		94043	80496
4.465		12565	9054
4.497		15729	13454
4.537		63584	59096
4.583		15220	12600
4.612		2917	4164
4.673		18580	19865
4.711		310879	256368
4.732		199378	139800
4.762		261312	234132
4.832		103290	98891
4.879		670705	694069
4.917		331501	331907
4.962		18362	15141
4.989		40949	34868
5.036		261731	273973
5.092		370878	362533
5.126		175781	133306

RT A	Compound A	Height A	Area A
5.158		771301	773057
5.206		203380	260610
5.248		202386	183596
5.287		564825	622804
5.337		127784	123573
5.38		947200	1040236
5.436		132805	151977
5.465		11014	5339
5.489		622763	568584
5.51		125613	86007
5.544		108604	96373
5.584		993021	1073933
5.626		68917	52908
5.662		88572	112278
5.699		1063766	1058280
5.721		40199	22021
5.739		9165	2718
5.761		308719	288994
5.805		252072	278833
5.911		108344	97443
5.927		204063	152091
5.985		197523	194017
6.025		123290	128033
6.068		21527	19211
6.107		292969	286658
6.133		23833	13431
6.162		911197	919880
6.192		12336	15324
6.371		529933	652721
6.42		161366	315420
6.473		2626	1442
6.526		1799	883
6.559		13850	16878
6.619		16265	15119
6.648		101393	103097
6.686		3036	1273
6.712		3202	4210
6.765		2199	1726
6.803		232176	250383
6.85		12462	13829
6.966		2119	3361
7.022		48521	57692
7.064		3683	3556
7.195	DCB	189131	257852
7.328		1923	618
7.356		1660	603
7.404		15065	21263
7.51		2098	2595
7.561		4829	6966
7.641		8484	11690
7.71		1813	1797
7.728		2340	1615
7.758		1689	734
7.791		1910	1144
7.82		2105	2261
7.946		1375	529
7.97		2036	1054
8.013		2382	2460
8.054		1349	713
8.085		2857	1724
8.152		1800	579
8.188		1753	2215
8.224		3192	2086
8.256		2782	1736
8.434		2742	3683
8.503		1872	1139

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RT A	Compound A	Height A	Area A
8.538		1847	680
8.622		1707	1287
8.669		3501	9218

ASX73 1198

LANCASTER LABORATORIES

Sample Number: 6721496ACF DF25 AD49--4 T 121990024A 10736 Injection Volume: 1 uSW-846 8082
Injected On: 7/24/2012 11:55:59 PM Analyst: 2855
Instrument ID: CP20-17342
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: 3p20205B.0009.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.529		20585	31489
2.575		176559	188095
2.603		96128	126136
2.675		18100	17696
2.711		62968	81053
2.748		15838	13419
2.803		7349013	5677224
2.89		12605	8556
2.934		68285	80390
2.98		39337	75499
3.03		16974	10543
3.065	TCX	4915603	3468053
3.112		13879	6991
3.146		16785	7507
3.171		15413	7906
3.193		162832	131644
3.219		10067	3984
3.233		1085741	732117
3.272		42743	21201
3.296		73611	63685
3.333		254279	182547
3.386		501829	410229
3.421		14916	42293
3.476		38706	29054
3.507		48350	41284
3.533		36654	30927
3.571		118503	204894
3.67		13133	12298
3.701		83498	71746
3.748		79265	67341
3.786		124569	96034
3.826		46532	48110
3.86		36606	22019
3.872		110793	58577
3.892		90297	53308
3.929		10855	3264
3.979		10259	2712
3.995		113097	83789
4.025		1437190	1100757
4.053		511899	370853
4.075		108578	57109
4.104		10571	8539
4.202		235519	306220
4.225		147127	92081
4.241		64560	30553
4.279		732143	641565
4.329		202925	217942
4.377		98308	103527
4.402		1508818	1120688
4.428		5962279	4663223
4.457		2801687	2122171
4.482		167632	100641
4.496		767725	518303
4.536		6740644	5954138

RT B	Compound B	Height B	Area B
4.575		4165267	3993844
4.603		683748	372811
4.618		487306	279037
4.667		523059	452655
4.706		3637117	3521905
4.771		5864974	6572361
4.811		2447483	1990430
4.84		10159260	10052970
4.882		1430424	1675065
4.941		7733533	8846760
4.981		1437732	1282136
5.018		11793550	10154040
5.042		1099483	843158
5.089		11401090	10670300
5.125		678627	569904
5.208		8978663	8683076
5.264		12041590	11079160
5.303		2659282	2489997
5.345		14064690	13133260
5.375		2328219	1726631
5.397		165781	66724
5.417		2710883	2221188
5.484		215695	228126
5.525		1164594	1692318
5.576		4736346	4090930
5.605		3696118	3131093
5.652		2568725	2639497
5.689		1178623	960685
5.709		575221	367762
5.765		13181340	15214440
5.805		122346	74332
5.849		356109	344188
5.883		98245	99110
5.933		31612	20810
5.959		87639	57691
5.981		1415688	1230411
6.028		9263869	9707518
6.19		151962	220507
6.222		257164	251517
6.255		78059	57277
6.306		1190708	1143259
6.404		2376276	2325486
6.436		127808	90990
6.531		8484	2815
6.545		23544	20016
6.609		533105	550056
6.775	DCB	2247953	2346562
6.971		15499	16074
7.012		11366	16397
7.235		72787	94047
7.313		26118	30401
7.431		5762	4469
7.511		41653	58120
7.624		6490	2693
7.724		7144	8993
7.813		6005	11071
7.842		6801	3632
7.916		7394	5240
8.072		9693	11332
8.118		9240	7465
8.195		6676	4270
8.235		5641	3213
8.284		7820	4321
8.374		6311	2111
8.387		6360	3326
8.406		5705	3344

RT B	Compound B	Height B	Area B
8.467		5396	1819
8.505		6397	6082
8.582		7706	7048
8.653		5543	2371

6721496ACF DF25 AD49--4 T 121990024A 10736 SW-846 8082

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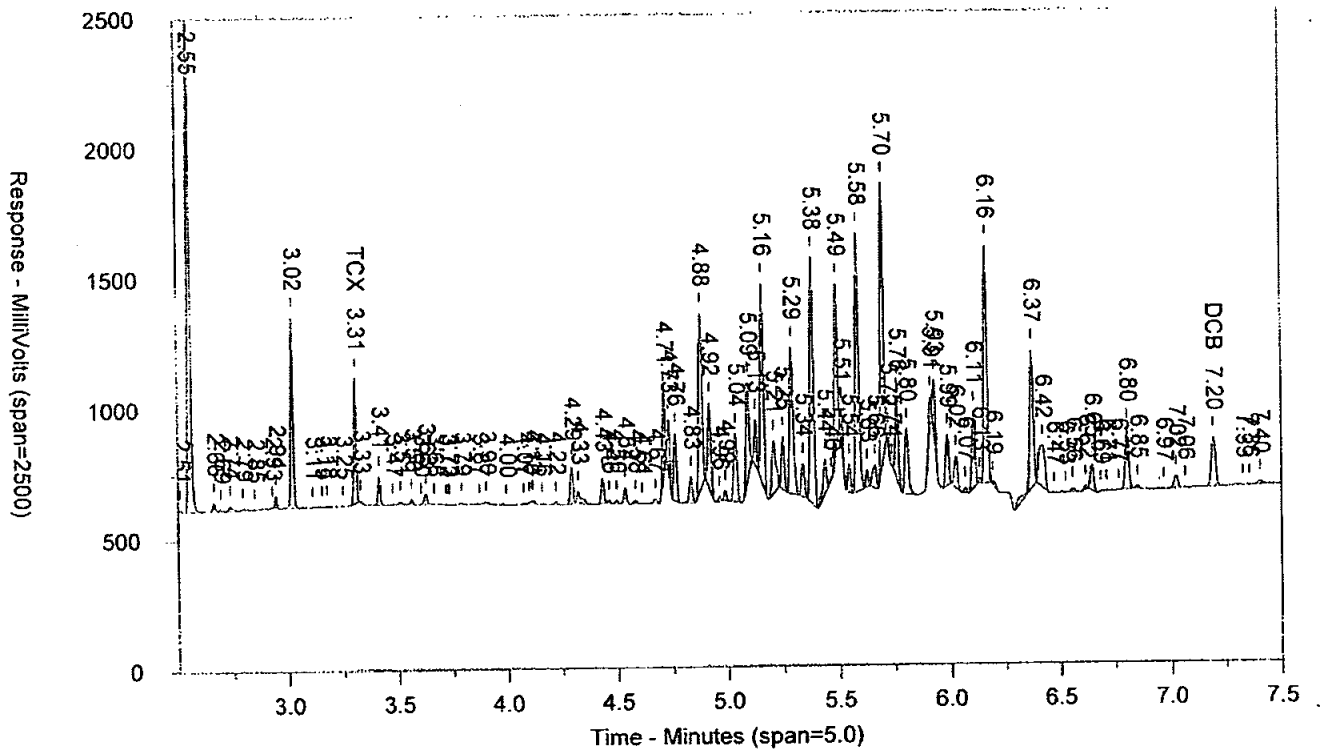

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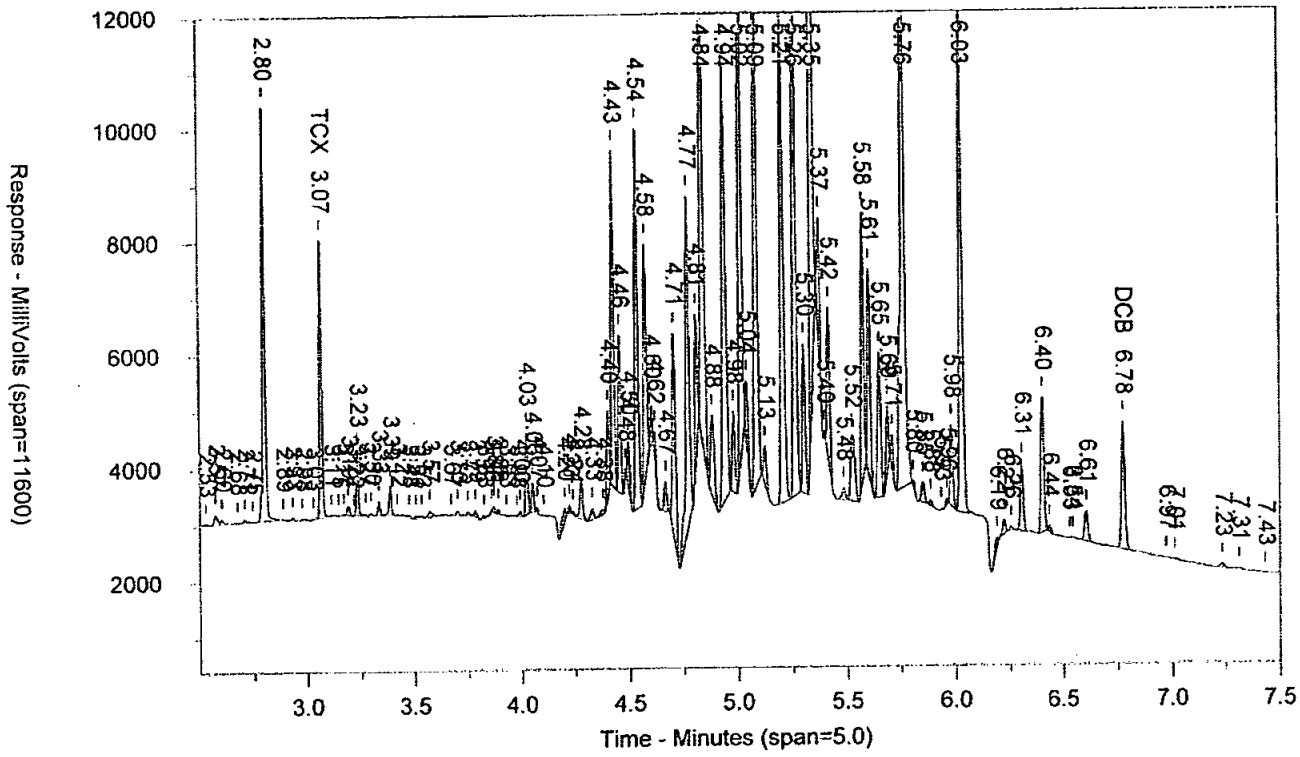

LANCASTER LABORATORIES

Sample Number: 6721496ACF DF25 AD49--4 T 121990024A 10736 Sample Weight: SW846 8082
Injected On: 7/24/2012 11:55:59 PM Dilution Factor: 250
Instrument ID: CP20-17342
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
3.306	480777	15.486	TCX	3.065	4915603	11.165	TCX
7.195	189131	15.415	DCB	6.775	2247953	10.251	DCB

Files:
Area File: 3p20205.0009.RAW
Area File: 3p20205B.0009.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/25/2012 12:04:42 AM
File Reported On: 7/25/2012 at 12:04:46 AM

6721496ACF DF25 AD49--4 T 121990024A 10736 SW-846 8082

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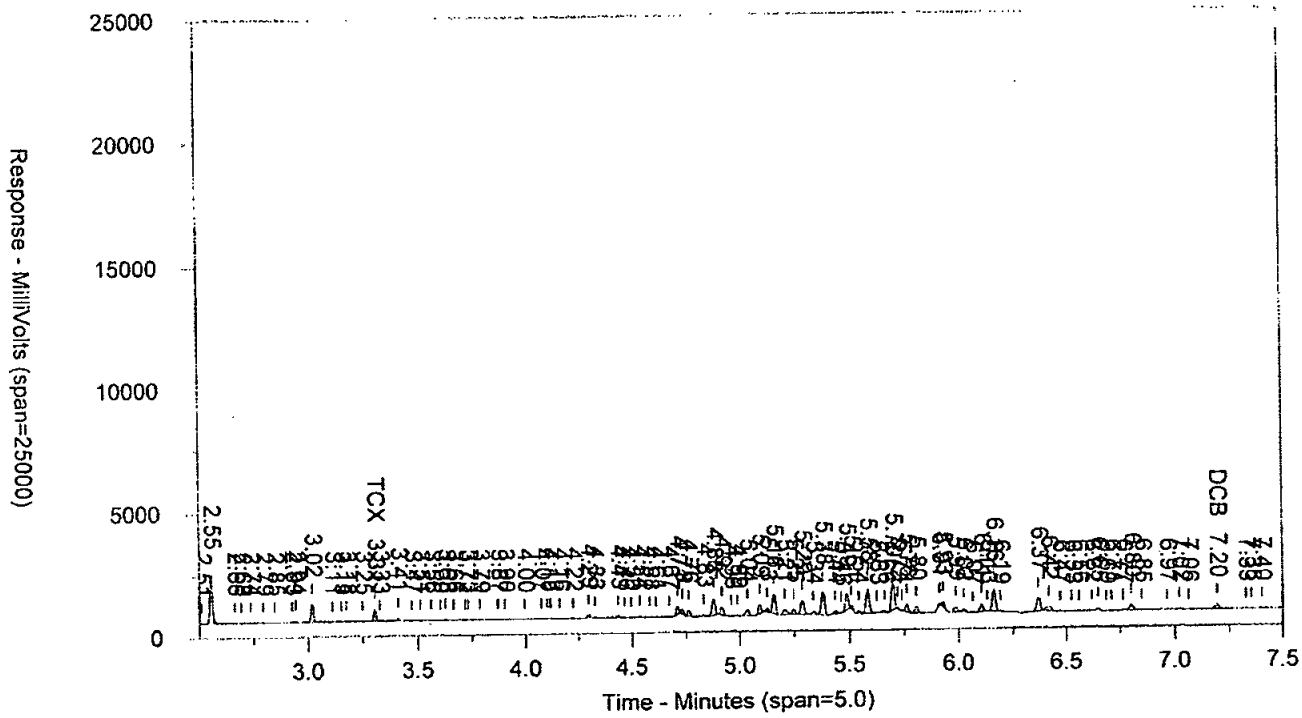

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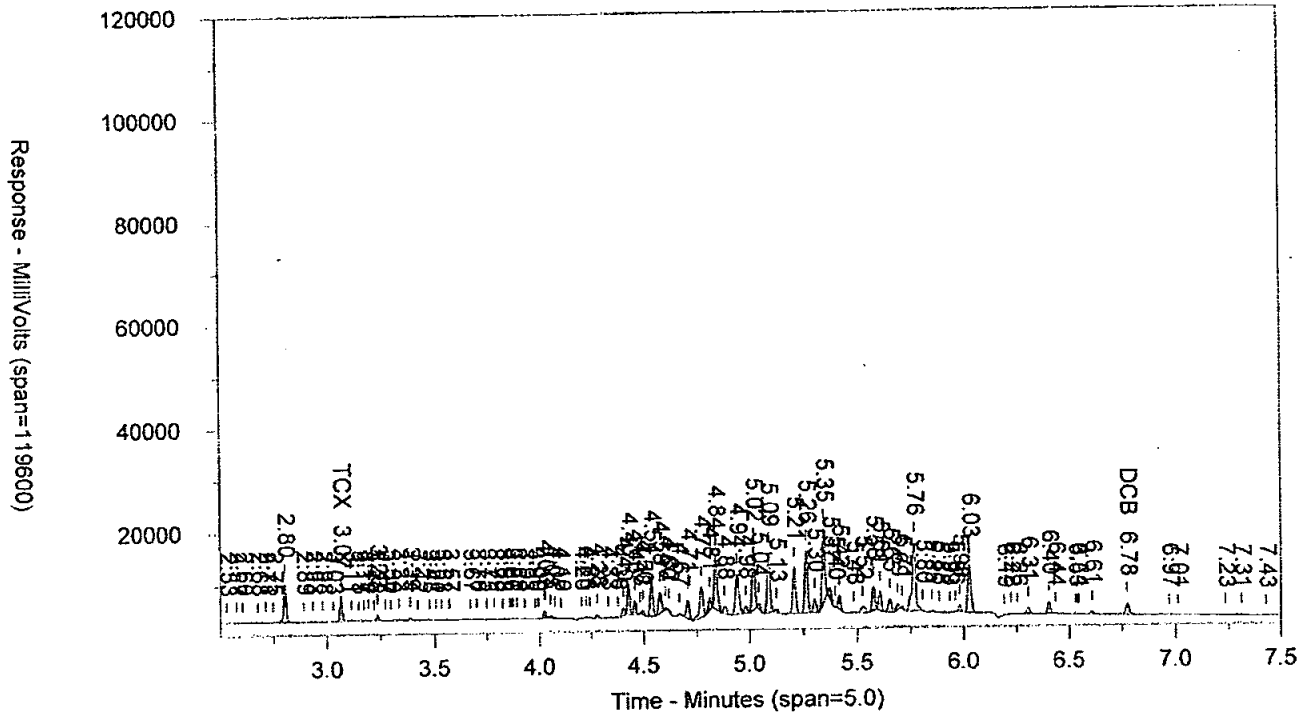

ASX73 1196

Data Summary

Sample Name: 6721499 ACF DF100 32--0 Sample ID: AD **Batchnumber: 121990024A**
Sample Amount: 30.3 g Total Volume: 1000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 26, 2012 20:40:23
Instrument	H5088A
Result file	2P7207.014.RAW
Calibration file	1P7207
Method file	PESTDI7

%SSR(TCX) 101% (33 - 143) Conc: 10.307942
%SSR(DCB) 139% (24 - 164) Conc: 13.718129

Analysis Report (B)

Injected on	Jul 26, 2012 20:40:23
Instrument	H5088B
Result file	2P7207B.014.RAW
Calibration file	1P7207B
Method file	PESTDI7B

%SSR(TCX) 101% (33 - 143) Conc: 10.333709
%SSR(DCB) 129% (24 - 164) Conc: 12.766211

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.75	3.79	3.81	2674	10.307942	Tetrachloro-m-xylene	3.60	3.63	3.66	1125	10.333709
Decachlorobiphenyl	9.06	9.10	9.12	1673	13.718129	Decachlorobiphenyl	8.54	8.58	8.60	1274	12.766211

Single Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑	Tetrachloro-m-xylene	B	10.333709				0.25	
☑	Decachlorobiphenyl	A	13.718129				7.19	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**11.42**	
6.20	6.24	6.26	38729.55859	4783.659165			1
6.44	6.47	6.50	53054.6875	5685.582817			2
6.68	6.71	6.74	56909.6875	6230.465834			3
6.95	6.98	7.01	32402.375	6038.866056			4
7.25	7.28	7.31	72743.76562	6653.354393			5
7.55	7.58	7.61	35004.28515	6526.986186			6
Height summation:			**288844.359375**				
Concentration		CF:	**5986.485742**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**10.38**	
6.00	6.03	6.06	28729.20117	5406.543366			1
6.17	6.21	6.23	37681.99218	5948.675721			2
6.31	6.34	6.37	30042.40429	5427.307495			3
6.73	6.77	6.79	22094.07226	6031.891987			4
6.96	6.99	7.02	58591.38281	6632.203291			5
7.29	7.33	7.35	41934.47265	6963.569641			6
Height summation:			**219073.525392**				
Concentration		CF:	**6068.36525**	L:			

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
☑	Aroclor-1016			<1683.1684	<356.4357			4	40	
☑	Aroclor-1221			<1683.1684	<455.4456			3	40	
☑	Aroclor-1232			<1683.1684	<792.0792			4	40	
☑	Aroclor-1242			<1683.1684	<326.7327			4	40	
☑	Aroclor-1248			<1683.1684	<326.7327			4	40	
☑	Aroclor-1254			<1683.1684	<326.7327			4	40	
☑	Aroclor-1260	B	6068.36525	1683.1684	485.1485		1.36	4	40	
☐	Aroclor-1262			<1683.1684	<326.7327			4	40	
☐	Aroclor-1268			<1683.1684	<326.7327			4	40	
☐	Total PCBs	A	6068.36525	1683.1684	326.7327		200.00			

Units: ug/kg

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

Reviewed by: Jessica L. Miller, Chemist
Date: JUL 26 2012

Verified by: Melissa A. McDermott, Senior Chemist Group Leader
Date: JUL 27 2012

7/26/12

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721499** ACF DF100 32--0 Sample ID: AD **Batchnumber: 121990024A**
Sample Amount: 30.3 g Total Volume: 1000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 26, 2012 20:40:23
Instrument : CP 7--H5088A
Result file : 2p7207.014.RAW
Calibration file : 1p7207.CAL
Method file : PESTDI7.MET
%SSR(TCX) : 101% (33-143) Conc.: 10.307942
%SSR(DCB) : 139% (24-164) Conc.: 13.718129

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					2	16.46	
5.22	5.25	5.28	1289.582031	295.170959			5
5.33	5.37	5.39	850.649109	233.612002			6
Height Summation:			2140.231140				
Amount Avg CF:			264.391481	Linear:			
Aroclor-1232					2	21.53	
5.22	5.25	5.28	1289.582031	601.348845			5
5.34	5.37	5.40	850.649109	442.427373			6
Height Summation:			2140.231140				
Amount Avg CF:			521.888109	Linear:			
Aroclor-1242					2	20.73	
5.22	5.25	5.28	1289.582031	369.881932			5
5.34	5.37	5.40	850.649109	275.291517			6
Height Summation:			2140.231140				
Amount Avg CF:			322.586725	Linear:			
Aroclor-1248					4	146.23	
5.22	5.25	5.28	1289.582031	213.550175			3
5.34	5.37	5.40	850.649109	204.39562			4
5.60	5.63	5.66	1776.911255	474.948918			5
5.74	5.78	5.80	23699.07812	3498.64115			6
Height Summation:			27616.220520				
Amount Avg CF:			1097.883966	Linear:			
Aroclor-1254					6	64.81	
5.74	5.78	5.80	23699.07812	3266.76498			1
6.05	6.09	6.11	17303.58398	1851.739653			2
6.31	6.34	6.37	18017.01757	2524.885169			3
6.45	6.47	6.51	53054.6875	10565.829577			4
6.55	6.58	6.61	27022.02734	5352.742306			5
6.68	6.71	6.74	56909.6875	7577.132861			6
Height Summation:			196006.082031				
Amount Avg CF:			5189.849091	Linear:			
Aroclor-1260					6	11.42	
6.20	6.24	6.26	38729.55859	4783.659165			1
6.44	6.47	6.50	53054.6875	5685.582817			2
6.68	6.71	6.74	56909.6875	6230.465834			3
6.95	6.98	7.01	32402.375	6038.866056			4
7.25	7.28	7.31	72743.76562	6653.354393			5
7.55	7.58	7.61	35004.28515	6526.986186			6
Height Summation:			288844.359375				
Amount Avg CF:			5986.485742	Linear:			
Aroclor-1262					6	37.83	
E 6.44	6.47	6.50	53054.6875	8238.742028			1
6.76	6.79	6.82	20880.44921	2832.636301			2
6.95	6.98	7.01	32402.375	4667.15554			3
7.25	7.28	7.31	72743.76562	4950.428223			4
7.55	7.58	7.61	35004.28515	4658.951763			5
8.29	8.33	8.35	19364.10742	3754.432346			6
Height Summation:			233449.669922				
Amount Avg CF:			4850.391034	Linear:			

Analysis Report (B)

Injected on : JUL 26, 2012 20:40:23
Instrument : CP 7--H5088B
Result file : 2p7207B.014.RAW
Calibration file : 1P7207b.CAL
Method file : PESTDI7B.MET
%SSR(TCX) : 101% (33-143) Conc.: 10.333709
%SSR(DCB) : 129% (24-164) Conc.: 12.766211

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					3	134.78	
4.44	4.48	4.50	159.844391	55.198907			3
4.67	4.71	4.73	770.026367	119.775602			4
4.91	4.91	4.97	1604.471313	1000.36745			6
Height Summation:			2534.342071				
Amount Avg CF:			391.780653	Linear:			
Aroclor-1232					2	54.61	
4.45	4.48	4.51	159.844391	98.293136			3
4.67	4.71	4.73	770.026367	221.941507			4
Height Summation:			929.870758				
Amount Avg CF:			160.117322	Linear:			
Aroclor-1242					2	50.91	
4.45	4.48	4.51	159.844391	68.900837			3
4.67	4.71	4.73	770.026367	146.399057			4
Height Summation:			929.870758				
Amount Avg CF:			107.649947	Linear:			
Aroclor-1248					6	120.10	
4.67	4.71	4.73	770.026367	240.272332			1
4.91	4.91	4.97	1604.471313	854.991142			2
5.07	5.10	5.13	719.61792	225.826506			3
5.20	5.23	5.26	279.948639	119.524621			4
5.39	5.42	5.45	9274.884766	3201.513389			5
5.58	5.60	5.64	1836.515015	1209.188527			6
Height Summation:			14485.464020				
Amount Avg CF:			975.21942	Linear:			
Aroclor-1254					6	81.28	
5.39	5.42	5.45	9274.884766	1793.526104			1
5.88	5.92	5.94	22019.23437	3381.686075			2
6.09	6.12	6.15	10911.48144	2475.302379			3
6.17	6.21	6.23	37681.99218	13969.291513			4
6.31	6.34	6.37	30042.40429	10855.173534			5
6.47	6.50	6.53	23449.30859	4570.187599			6
Height Summation:			133379.305665				
Amount Avg CF:			6174.194534	Linear:			
Aroclor-1260					6	10.38	
6.00	6.03	6.06	28729.20117	5406.543366			1
6.17	6.21	6.23	37681.99218	5948.675721			2
6.31	6.34	6.37	30042.40429	5427.307495			3
6.73	6.77	6.79	22094.07226	6031.891987			4
6.96	6.99	7.02	58591.38281	6632.203291			5
7.29	7.33	7.35	41934.47265	6963.569641			6
Height Summation:			219073.525392				
Amount Avg CF:			6068.36525	Linear:			
Aroclor-1262					6	36.46	
6.31	6.34	6.37	30042.40429	6568.825523			1
6.50	6.53	6.56	9055.091797	1856.544225			2
6.73	6.77	6.79	22094.07226	3858.897791			3
6.96	6.99	7.02	58591.38281	5169.308474			4
7.69	7.73	7.76	6963.65332	4213.080651			5
7.86	7.89	7.92	17644.3125	4000.278655			6
Height Summation:			144390.916993				
Amount Avg CF:			4277.822553	Linear:			

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721499** ACF DF100 32--0 Sample ID: AD **Batchnumber: 121990024A**
Sample Amount: 30.3 g Total Volume: 1000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 26, 2012 20:40:23
Instrument : CP 7--H5088A
Result file : 2p7207.014.RAW
Calibration file : 1p7207.CAL
Method file : PESTDI7.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					5	107.20	
7.54	7.58	7.60	35004.28515	2244.088916			1
7.63	7.66	7.69	11723.99609	864.118311			2
7.85	7.88	7.91	685.067383	49.113153			3
8.30	8.33	8.35	19364.10742	3244.964198			5
8.72	8.75	8.78	4974.370117	119.782745			6

Height Summation: **71751.826172**
Amount Avg CF: **1304.413465** Linear:

Analysis Report (B)

Injected on : JUL 26, 2012 20:40:23
Instrument : CP 7--H5088B
Result file : 2p7207B.014.RAW
Calibration file : 1P7207b.CAL
Method file : PESTDI7B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					6	109.80	
7.23	7.26	7.29	11181.59765	846.048966			1
7.30	7.33	7.36	41934.47265	3458.167791			2
7.51	7.54	7.57	601.763184	49.455698			3
7.86	7.89	7.92	17644.3125	3529.85733			5
8.22	8.25	8.28	4108.331543	117.446538			6

Height Summation: **75470.477539**
Amount Avg CF: **1600.195265** Linear:

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			1683.1684	356.4357		38.83	4	40	
Aroclor-1221			1683.1684	455.4456			3	40	
Aroclor-1232			1683.1684	792.0792		** 106.09	4	40	
Aroclor-1242			1683.1684	326.7327		** 99.92	4	40	
Aroclor-1248			1683.1684	326.7327		11.83	4	40	
Aroclor-1254			1683.1684	326.7327		17.32	4	40	
Aroclor-1260			1683.1684	485.1485		1.36	4	40	
Aroclor-1262			1683.1684	326.7327	E	12.55	4	40	
Aroclor-1268			1683.1684	326.7327		20.37	4	40	
Total PCBs			1683.1684	326.7327					

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 6721499ACF DF100 AD32--0 T 121990024A 10736 Injection Volume: $W-846 8082
Injected On: 7/26/2012 8:40:23 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 2p7207.014.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.747		856	8014
1.991		368	1005
2.119		825	1392
2.238		719	1163
2.644		691	1883
2.715		577	2402
2.844		8308	16147
2.949		542	1064
3.058		269	715
3.216		212	443
3.293		703	2155
3.42		5046	9135
3.793	TCX	2674	5031
3.939		268	413
4.22		1602	7704
4.367		157	387
4.489		239	1056
4.743		412	1801
4.809		160	163
4.951		2146	15526
5.082		2591	9151
5.25		1290	2792
5.369		851	1489
5.503		397	1076
5.579		10654	21998
5.63		1777	2275
5.722		1849	2657
5.775		23699	77140
5.951		4102	7263
6.029		8079	22982
6.086		17304	27609
6.147		14871	42669
6.237		38730	93511
6.344		18017	33853
6.41		5414	8684
6.473		53055	162587
6.578		27022	55284
6.67		2128	2267
6.714		56910	123944
6.787		20880	31835
6.836		11694	18768
6.982		32402	80941
7.053		9678	14951
7.099		4537	6389
7.21		9927	18460
7.284		72744	197508
7.58		35004	68942
7.66		11724	29366
7.881		685	1576
8.029		8934	27336
8.326		19364	50728
8.414		617	1051
8.753		4974	14373

ASX73 1200

RT A	Compound A	Height A	Area A
9.102	DCB	1673	6919

LANCASTER LABORATORIES

Sample Number: 6721499ACF DF100 AD32–0 T 121990024A 10736 Injection Volume: 1 ulSW-846 8082
Injected On: 7/26/2012 8:40:23 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 2p7207B.014.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.547		5973	42627
2.138		350	898
2.24		310	1073
2.684		223	726
2.782		2794	7259
3.297		2002	5358
3.631	TCX	1125	2649
4.056		690	1645
4.482		160	633
4.589		199	426
4.711		770	4530
4.91		1604	5421
5.099		720	1445
5.229		280	442
5.293		205	359
5.419		9275	22499
5.503		909	1185
5.555		10205	15779
5.598		1837	3455
5.757		2803	5568
5.834		4619	7027
5.923		22019	73622
6.033		28729	60051
6.125		10911	28814
6.206		37682	79321
6.339		30042	55016
6.404		7574	10352
6.45		5183	6403
6.499		23449	30000
6.528		9055	11204
6.579		7828	11080
6.709		3472	6493
6.766		22094	49914
6.854		8805	12821
6.895		1453	1371
6.991		58591	125570
7.261		11182	19234
7.325		41934	93413
7.542		602	1131
7.608		650	951
7.725		6964	16905
7.892		17644	45903
8.166		133	368
8.252		4108	10385
8.579	DCB	1274	3329
8.725		99	356
10.336		139	758

ASX73 1282

6721499ACF DF100 AD32--0 T 121990024A 10736 SW-846 8082

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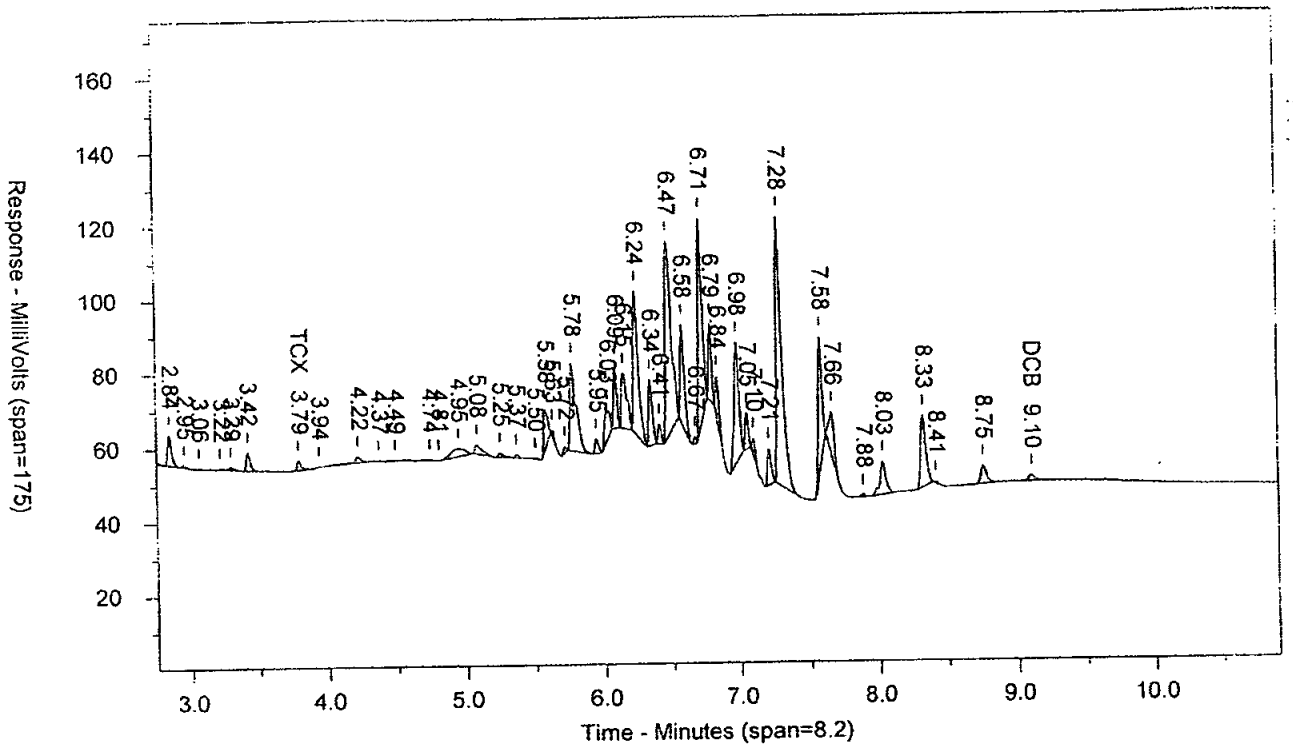

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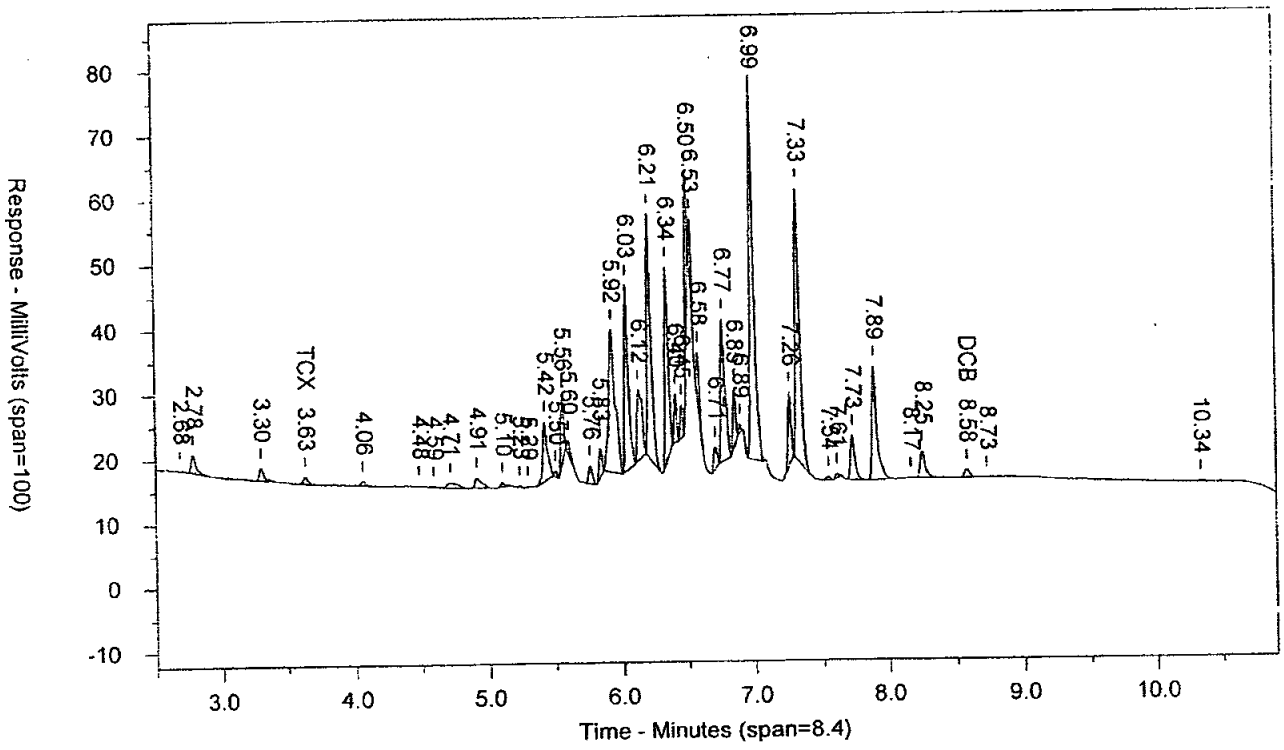

ASX73 1283

LANCASTER LABORATORIES

Sample Number: 6721499ACF DF100 AD32--0 T 121990024A 10736 Sample Weight: 3818-846 8082
Injected On: 7/26/2012 8:40:23 PM Dilution Factor: 1000
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.793	2674	10.308	TCX	3.631	1125	10.334	TCX
9.102	1673	13.718	DCB	8.579	1274	12.766	DCB

Files:
Area File: 2p7207.014.RAW
Area File: 2p7207B.014.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/26/2012 8:50:49 PM
File Reported On: 7/26/2012 at 8:51:23 PM

9SX73 1284

6721499ACF DF100 AD32--0 T 121990024A 10736 SW-846 8082

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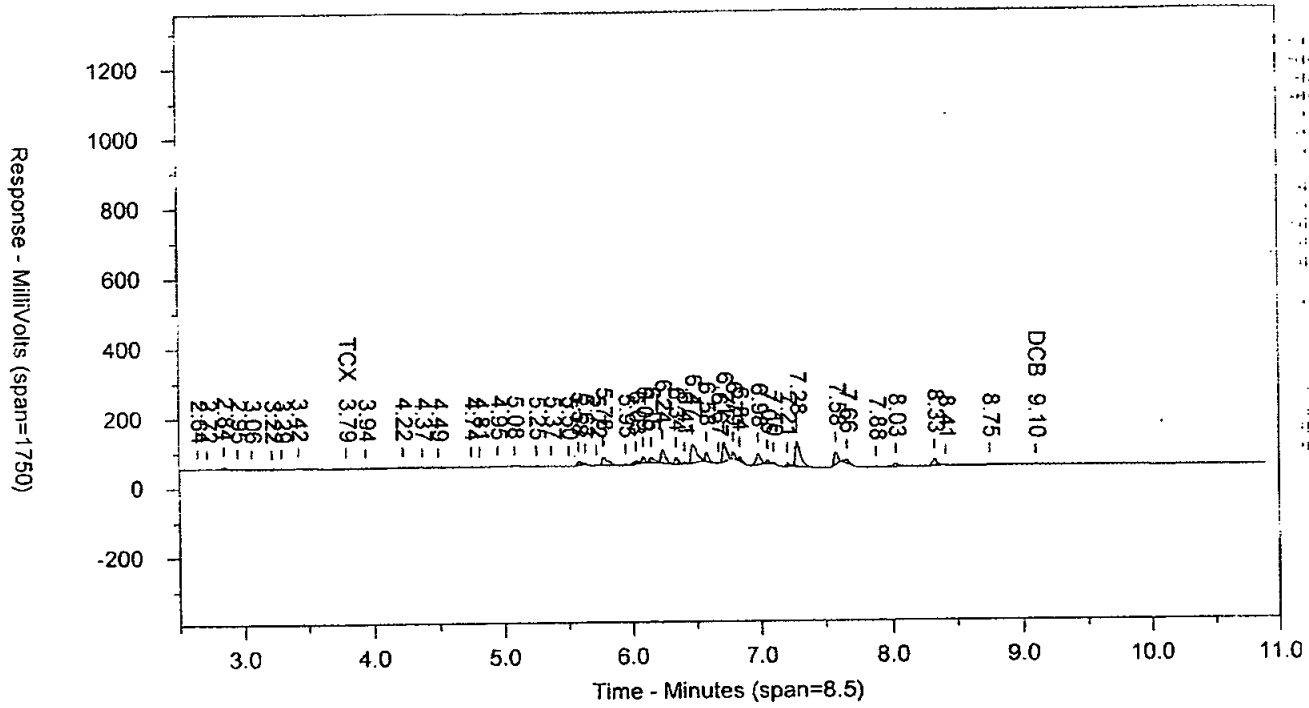

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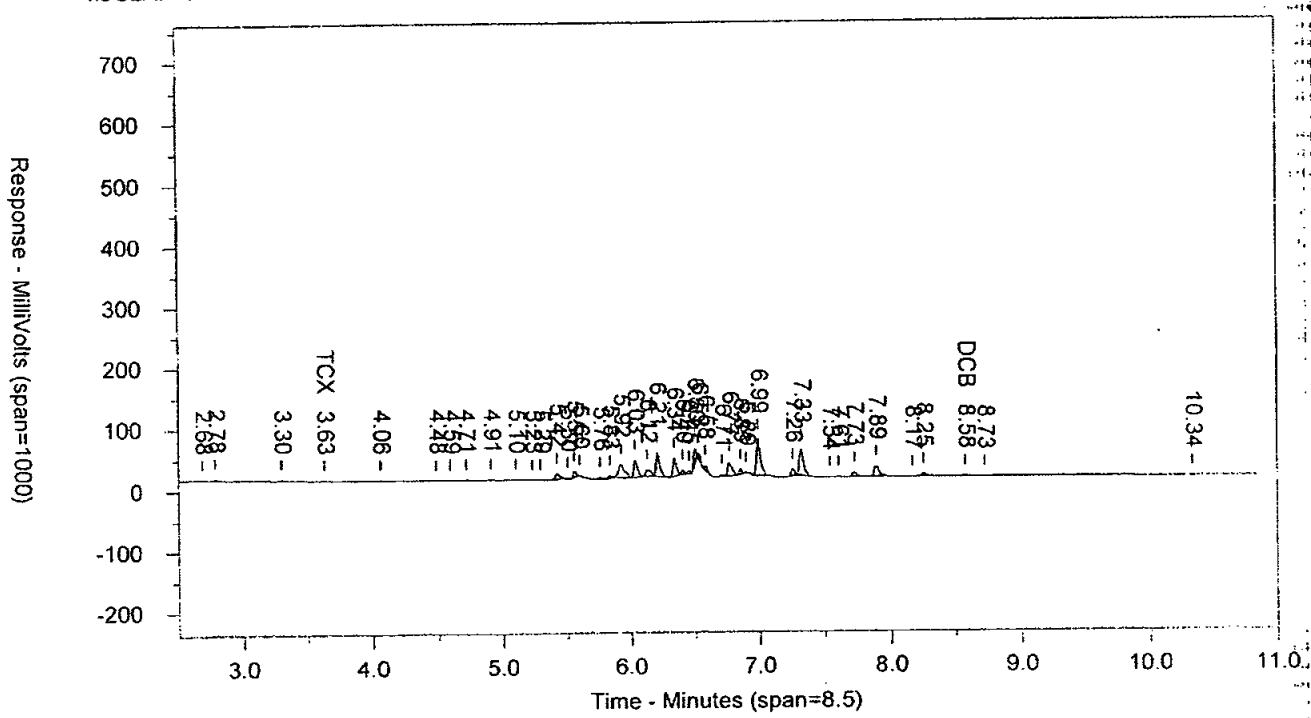

ASX73 1285

Data Summary

Sample Name: 6721500 ACF DF10 32--2 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 100 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on Jul 20, 2012 06:11:19
Instrument H5088A
Result file 9P7190.032.RAW
Calibration file 1P7190
Method file PESTDI7

%SSR(TCX) * 816% (33 - 143) Conc: 83.096413
%SSR(DCB) * 858% (24 - 164) Conc: 84.702713

Analysis Report (B)

Injected on Jul 20, 2012 06:11:19
Instrument H5088B
Result file 9P7190B.032.RAW
Calibration file 1P7190B
Method file PESTDI7B

%SSR(TCX) * 983% (33 - 143) Conc: 100.045036
%SSR(DCB) * 943% (24 - 164) Conc: 93.068436

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.85	3.88	269895	83.096413
Decachlorobiphenyl	9.23	9.25	9.29	146484	84.702713

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.66	3.69	3.72	112022	100.045036
Decachlorobiphenyl	8.68	8.70	8.74	107267	93.068436

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	100.045036				18.51	
☑ Decachlorobiphenyl	B	93.068436				9.41	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**20.44**	
5.82	5.85	5.88	129919.29687	1464.541536			1
6.14	6.16	6.20	141458.57812	1264.699758			2
6.39	6.42	6.45	171105.40625	1880.451976			3
Height summation:			**442483.28125**				
Concentration		CF:	**1536.564423**	L:			
Aroclor-1260						**9.31**	
7.04	7.06	7.10	199883.84375	2543.276032			4
7.35	7.37	7.41	387570.46875	2242.485619			5
7.65	7.68	7.71	190144.01562	2127.691824			6
Height summation:			**777598.328125**				
Concentration		CF:	**2304.484492**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**24.79**	
5.46	5.49	5.52	74670.195313	1380.913908			1
5.96	5.99	6.02	144975.5625	2169.906167			2
6.17	6.19	6.23	101981.98437	2246.036103			4
Height summation:			**321627.742188**				
Concentration		CF:	**1932.285393**	L:			
Aroclor-1260						**7.40**	
6.76	6.78	6.82	20159.992188	3101.592229			4
7.04	7.06	7.10	281789.46875	2745.093576			5
7.39	7.41	7.45	197803.76562	2726.521934			6
Height summation:			**499753.226563**				
Concentration		CF:	**2857.735913**	L:			

Data Summary

Sample Name: 6721500 ACF DF10 32--2 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 100 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 06:11:19
Instrument	H5088A
Result file	9P7190.032.RAW
Calibration file	1P7190
Method file	PESTDI7

Analysis Report (B)

Injected on	Jul 20, 2012 06:11:19
Instrument	H5088B
Result file	9P7190B.032.RAW
Calibration file	1P7190B
Method file	PESTDI7B

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
☑	Aroclor-1016			<167.7632	<35.5263			4	40	
☑	Aroclor-1221			<167.7632	<45.3947			3	40	
☑	Aroclor-1232			<167.7632	<78.9474			4	40	
☑	Aroclor-1242			<167.7632	<32.5658			4	40	
☑	Aroclor-1248			<167.7632	<32.5658			4	40	
☑	Aroclor-1254	B	1932.285393	167.7632	32.5658		22.82	4	40	
☑	Aroclor-1260	B	2857.735913	167.7632	48.3553		21.43	4	40	
☐	Aroclor-1262			<167.7632	<32.5658			4	40	
☐	Aroclor-1268			<167.7632	<32.5658			4	40	
☐	Total PCBs	A	4790.021306	167.7632	32.5658		200.00			

Units: ug/kg

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

Reviewed by: Monica M. Souders
Monica M. Souders
Chemist
Date: JUL 20 2012

Verified by: Jennifer E. Lewis
Jenifer E. Lewis
Manager
Date: JUL 25 2012

7/20/2012

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721500** ACF DF10 32--2 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 100 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 06:11:19
Instrument : CP 7--H5088A
Result file : 9p7190.032.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

%SSR(TCX) : *816% (33-143) Conc.: 83.096413
%SSR(DCB) : *858% (24-164) Conc.: 84.702713

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					4	127.21	
4.64	4.67	4.70	1881.140381	25.689557			2
4.89	4.92	4.95	7353.796875	54.554823			3
5.03	5.06	5.09	2937.170654	47.251615			5
5.29	5.32	5.35	18303.132813	336.796377			6
Height Summation:			30475.240723				
Amount Avg CF:			116.073093	Linear:			
Aroclor-1221					1		
4.11	4.13	4.17	4935.157227	162.706789			2
Height Summation:			4935.157227				
Amount Avg CF:			162.706789	Linear:			
Aroclor-1232					4	130.14	
4.64	4.67	4.71	1881.140381	53.305438			2
4.90	4.92	4.96	7353.796875	105.830127			3
5.04	5.06	5.10	2937.170654	93.999568			5
E 5.30	5.32	5.36	18303.132813	708.533965			6
Height Summation:			30475.240723				
Amount Avg CF:			240.417275	Linear:			
Aroclor-1242					4	126.82	
4.64	4.67	4.70	1881.140381	33.117269			2
4.89	4.92	4.96	7353.796875	66.461855			3
5.03	5.06	5.09	2937.170654	60.130356			5
5.30	5.32	5.36	18303.132813	419.171328			6
Height Summation:			30475.240723				
Amount Avg CF:			144.720202	Linear:			
Aroclor-1248					5	127.58	
4.90	4.92	4.96	7353.796875	106.412808			1
5.30	5.32	5.36	18303.132813	254.479338			3
5.42	5.44	5.48	11621.514648	226.009342			4
E 6.14	6.16	6.20	141458.57812	3923.985662			5
E 6.40	6.42	6.46	171105.40625	5695.180657			6
Height Summation:			349842.428711				
Amount Avg CF:			2041.213561	Linear:			
Aroclor-1254					6	48.22	
5.82	5.85	5.88	129919.29687	1464.541536			1
6.14	6.16	6.20	141458.57812	1264.699758			2
6.39	6.42	6.45	171105.40625	1880.451976			3
E 6.54	6.55	6.60	263429.5	4362.790391			4
E 6.63	6.65	6.69	219249.67187	3471.530549			5
E 6.77	6.79	6.83	325201.8125	3435.701618			6
Height Summation:			1250364.265625				
Amount Avg CF:			2646.619305	Linear:			
Aroclor-1260					6	10.67	
6.29	6.31	6.35	195473.67187	1965.837821			1
6.52	6.55	6.58	263429.5	2209.664928			2
6.77	6.79	6.83	325201.8125	2593.401932			3
7.04	7.06	7.10	199883.84375	2543.276032			4
7.35	7.37	7.41	387570.46875	2242.485619			5
7.65	7.68	7.71	190144.01562	2127.691824			6
Height Summation:			1561703.312500				
Amount Avg CF:			2280.408026	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 06:11:19
Instrument : CP 7--H5088B
Result file : 9p7190B.032.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : *983% (33-143) Conc.: 100.045036
%SSR(DCB) : *943% (24-164) Conc.: 93.068436

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					4	132.14	
4.35	4.38	4.41	524.586853	13.076504			2
4.51	4.54	4.58	1032.253296	35.433933			3
4.74	4.77	4.80	3171.408936	48.37623			4
5.27	5.30	5.33	5828.984863	278.785256			6
Height Summation:			10557.233948				
Amount Avg CF:			93.917981	Linear:			
Aroclor-1221					2	69.10	
3.89	3.91	3.95	488.899048	37.24457			1
3.98	3.99	4.04	1152.938599	108.420846			2
Height Summation:			1641.837647				
Amount Avg CF:			72.832708	Linear:			
Aroclor-1232					4	136.28	
4.35	4.38	4.41	524.586853	24.715191			2
4.52	4.54	4.58	1032.253296	64.285688			3
4.74	4.77	4.80	3171.408936	91.796966			4
5.28	5.30	5.34	5828.984863	566.448813			6
Height Summation:			10557.233948				
Amount Avg CF:			186.811665	Linear:			
Aroclor-1242					4	130.32	
4.35	4.38	4.41	524.586853	15.530687			2
4.52	4.54	4.58	1032.253296	42.927561			3
4.74	4.77	4.80	3171.408936	58.40317			4
5.28	5.30	5.34	5828.984863	324.081675			6
Height Summation:			10557.233948				
Amount Avg CF:			110.235773	Linear:			
Aroclor-1248					5	127.28	
4.74	4.77	4.80	3171.408936	97.67253			1
5.14	5.17	5.20	8874.621094	313.129712			3
5.28	5.30	5.34	5828.984863	250.366813			4
E 5.96	5.99	6.02	144975.5625	7585.966444			5
E 6.17	6.19	6.23	101981.98437	6729.907675			6
Height Summation:			264832.561768				
Amount Avg CF:			2995.408635	Linear:			
Aroclor-1254					6	53.44	
5.46	5.49	5.52	74670.195313	1380.913908			1
5.96	5.99	6.02	144975.5625	2169.906167			2
E 6.08	6.10	6.14	147321.35937	4568.479958			3
6.17	6.19	6.23	101981.98437	2246.036103			4
E 6.39	6.41	6.45	157030.5625	5578.99407			5
6.55	6.57	6.61	128704.03125	2393.954865			6
+ 6.55	6.60	6.61	39426.128906	733.344342			6
Height Summation:			754683.695313				
Amount Avg CF:			3056.380845	Linear:			

7-20-12

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721500** ACF DF10 32--2 Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 100 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 06:11:19
Instrument : CP 7--H5088A
Result file : 9p7190.032.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1262					6	42.16	
E 6.52	6.55	6.58	263429.5	3178.404856			1
E 6.84	6.86	6.90	98301.492188	1042.256798			2
E 7.04	7.06	7.10	199883.84375	2165.220944			3
E 7.35	7.37	7.41	387570.46875	1813.272542			4
E 7.65	7.68	7.71	190144.01562	1592.387117			5
E 8.42	8.44	8.48	101266.39062	1212.621274			6
Height Summation:			**1240595.710938**				
Amount Avg CF:			**1834.027255**	Linear:			
Aroclor-1268					6	87.01	
E 7.65	7.68	7.71	190144.01562	785.578578			1
7.74	7.76	7.80	57824.363281	277.650945			2
7.97	7.99	8.03	7177.587891	32.922891			3
+ 8.08	8.09	8.14	3215.678955	59.148888			4
E 8.08	8.14	8.14	42025.992188	773.022033			4
E 8.43	8.44	8.49	101266.39062	1038.560623			5
8.87	8.89	8.93	28865.660156	47.382597			6
Height Summation:			**427304.009766**				
Amount Avg CF:			**492.519611**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 06:11:19
Instrument : CP 7--H5088B
Result file : 9p7190B.032.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	9.56	
6.25	6.27	6.31	174946.54687	2696.762295			1
6.39	6.41	6.45	157030.5625	2700.528465			2
E 6.55	6.57	6.61	128704.03125	3354.365229			3
+ 6.55	6.60	6.61	39426.128906	1027.548513			3
6.76	6.78	6.82	20159.992188	3101.592229			4
7.04	7.06	7.10	281789.46875	2745.093576			5
7.39	7.41	7.45	197803.76562	2726.521934			6
Height Summation:			**960434.367188**				
Amount Avg CF:			**2887.477288**	Linear:			
Aroclor-1262					6	43.75	
E 6.39	6.41	6.45	157030.5625	3260.108574			1
E 6.58	6.60	6.64	39426.128906	762.463409			2
E 6.81	6.84	6.87	110253.59375	1731.689045			3
E 7.04	7.06	7.10	281789.46875	2148.203437			4
E 7.39	7.41	7.45	197803.76562	2074.014763			5
E 7.97	7.99	8.03	80566.578125	1447.098605			6
Height Summation:			**866870.097656**				
Amount Avg CF:			**1903.929639**	Linear:			
Aroclor-1268					5	106.39	
7.32	7.34	7.38	57530.234375	370.678194			1
E 7.39	7.41	7.45	197803.76562	1359.272769			2
7.61	7.63	7.67	3612.192383	24.651636			3
E 7.97	7.99	8.03	80566.578125	1268.74423			5
8.34	8.37	8.40	20095.328125	49.247577			6
Height Summation:			**359608.098633**				
Amount Avg CF:			**614.518881**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			167.7632	35.5263		21.10	4	40	
Aroclor-1221			167.7632	45.3947		** 76.31	3	40	
Aroclor-1232			167.7632	78.9474	E	25.09	4	40	
Aroclor-1242			167.7632	32.5658		27.05	4	40	
Aroclor-1248			167.7632	32.5658	E	37.89	4	40	
Aroclor-1254			167.7632	32.5658	E	14.37	4	40	
Aroclor-1260			167.7632	48.3553		23.49	4	40	
Aroclor-1262			167.7632	32.5658	E	3.74	4	40	
Aroclor-1268			167.7632	32.5658	E	22.04	4	40	
Total PCBs			167.7632	32.5658					

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 6721500ACF DF10 AC32--2 T 121990024A 10736 Injection Volume: SW846 8082
Injected On: 7/20/2012 6:11:19 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.032.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.551		1165	2183
1.633		22071	94777
2.047		641	2575
2.171		9713	32527
2.289		6950	21694
2.552		390	1196
2.7		2052	4306
2.807		1029	2949
2.901		28659	61807
3.005		3442	7431
3.126		539	1233
3.272		288	602
3.348		653	1919
3.48		22014	43528
3.594		139	160
3.853	TCX	269895	573131
4.001		1022	1728
4.129		4935	9001
4.285		7427	18346
4.523		670	2097
4.578		209	301
4.666		1881	3800
4.838		581	3486
4.924		7354	21627
5.057		2937	5446
5.149		30019	111941
5.32		18303	41723
5.391		1732	1899
5.44		11622	19521
5.491		1489	1798
5.604		1682	2122
5.649		44705	52635
5.669		12762	11347
5.702		27160	38863
5.791		15410	21149
5.845		129919	210365
5.885		28832	40053
6.023		45912	83348
6.098		25672	67939
6.12		16836	15344
6.161		141459	231628
6.217		49750	82648
6.26		22703	25397
6.31		195474	476629
6.418		171105	334556
6.482		19317	27035
6.546		263430	848284
6.654		219250	480078
6.744		10690	10670
6.789		325202	724947
6.862		98301	144677
6.912		59326	99269
7.06		199884	531513

RT A	Compound A	Height A	Area A
7.133		52349	80630
7.181		25189	37293
7.295		68641	133694
7.371		387571	1162359
7.676		190144	393455
7.757		57824	151042
7.991		7178	25040
8.095		3216	4780
8.14		42026	103419
8.444		101266	288182
8.535		2411	4253
8.887		28866	91504
9.249	DCB	146484	545974
10.079		182	730
10.547		353	2575

ASX73 1211

LANCASTER LABORATORIES

Sample Number: 6721500ACF DF10 AC32--2 T 121990024A 10736 Injection Volume: 1 uSW-846 8082
Injected On: 7/20/2012 6:11:19 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.032.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.613		18734	132254
1.765		6274	18216
2.195		3102	8740
2.3		1886	4950
2.634		762	1976
2.74		569	1120
2.84		8969	21395
3.019		672	3303
3.358		7384	18015
3.693	TCX	112022	220502
3.909		489	864
3.992		1153	2418
4.121		3079	7315
4.378		525	1299
4.54		1032	2523
4.656		295	1002
4.767		3171	11386
4.931		732	964
4.975		14992	51093
5.167		8875	17914
5.3		5829	10573
5.361		1018	1468
5.486		74670	190951
5.568		5783	7005
5.622		68877	93847
5.669		31049	82318
5.778		2472	3006
5.826		28989	54940
5.904		45773	65297
5.989		144976	443067
6.103		147321	292048
6.194		101982	225182
6.275		174947	347525
6.41		157031	265039
6.476		83558	112739
6.521		24117	26681
6.57		128704	160806
6.598		39426	42720
6.65		37263	49322
6.783		20160	36592
6.837		110254	260983
6.927		43828	59456
6.969		8122	7627
7.064		281790	599610
7.161		5300	7426
7.343		57530	97378
7.408		197804	430233
7.632		3612	6776
7.699		3151	4626
7.823		34564	81147
7.992		80567	207054
8.209		3860	17319
8.366		20095	50254
8.703	DCB	107267	298810

ASX73 1212

9.411	147	578
10.003	288	2145
10.31	175	1384

ASX73 1213

6721500ACF DF10 AC32--2 T 121990024A 10736 SW-846 8082

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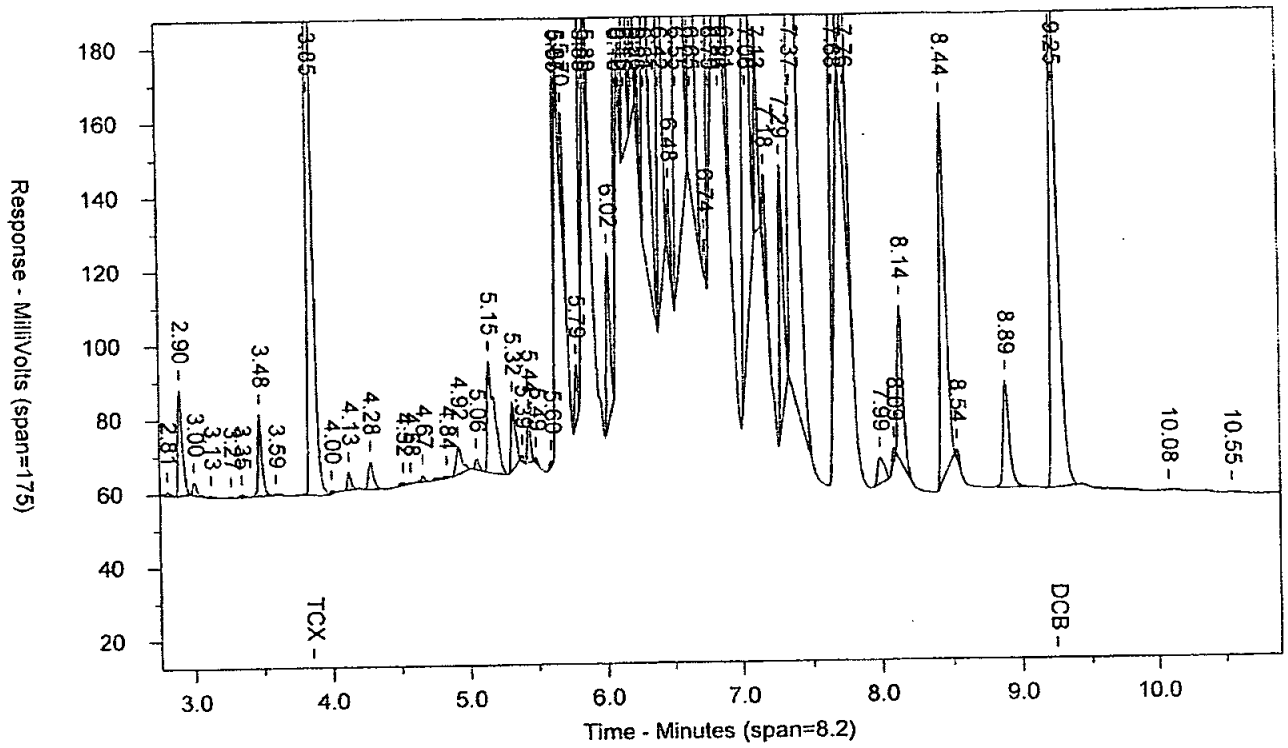

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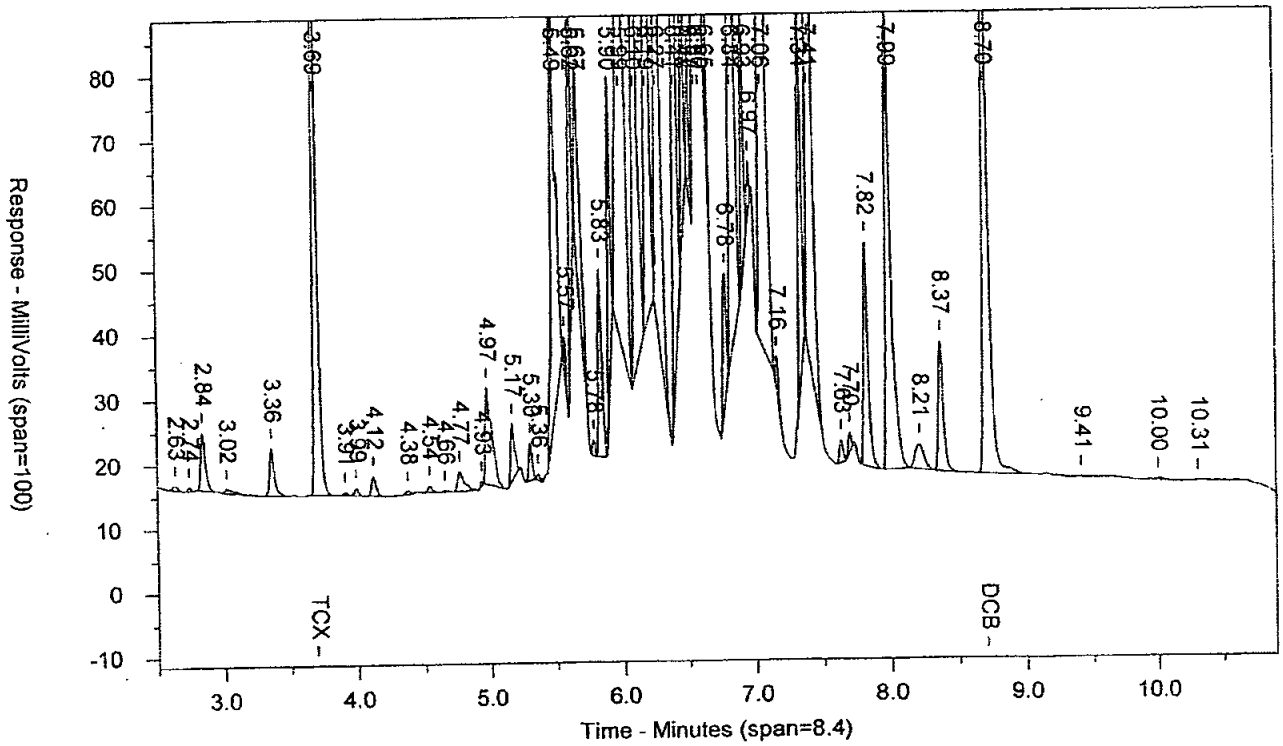

ASX73 1214

LANCASTER LABORATORIES

Sample Number: 6721500ACF DF10 AC32--2 T 121990024A 10736 Sample Weight: 35.4-846 8082
Injected On: 7/20/2012 6:11:19 AM Dilution Factor: 100
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.853	269895	83.096	TCX	3.693	112022	100.045	TCX
9.249	146484	84.703	DCB	8.703	107267	93.068	DCB

Files:
Area File: 9p7190.032.RAW
Area File: 9p7190B.032.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 6:21:55 AM
File Reported On: 7/20/2012 at 6:22:18 AM

ASX73 1215

6721500ACF DF10 AC32--2 T 121990024A 10736 SW-846 8082

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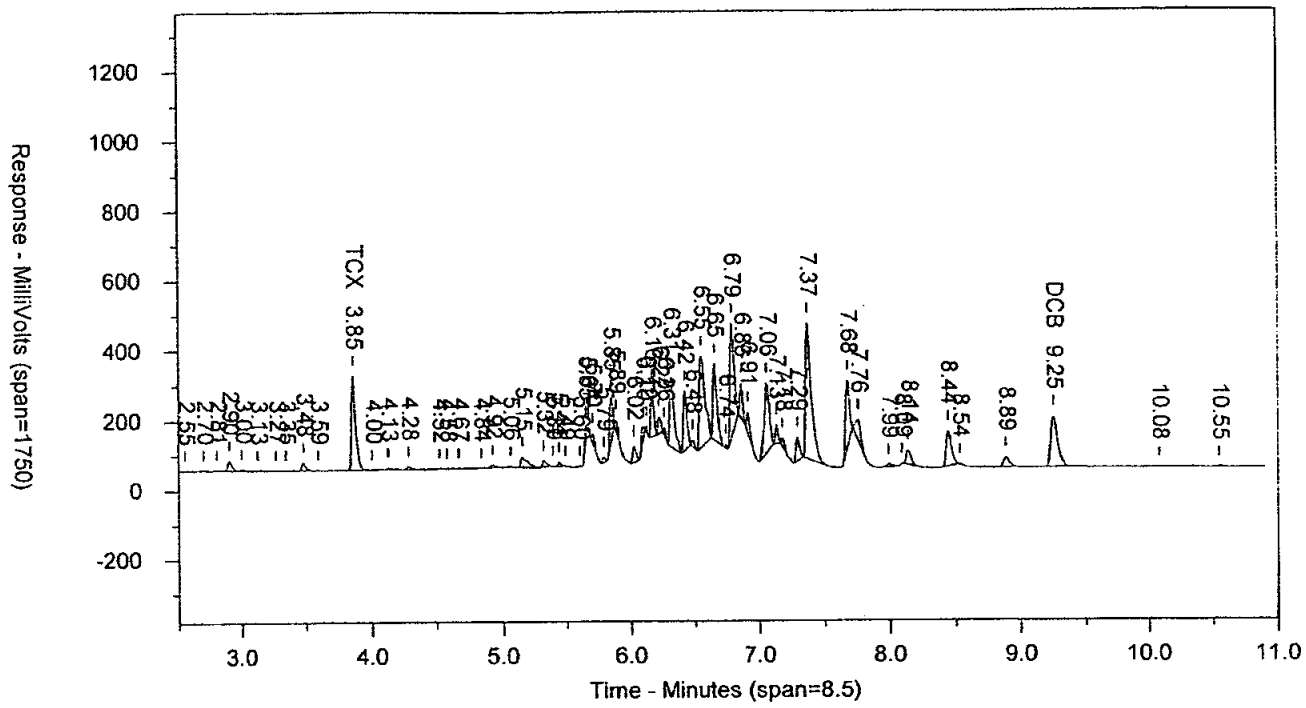

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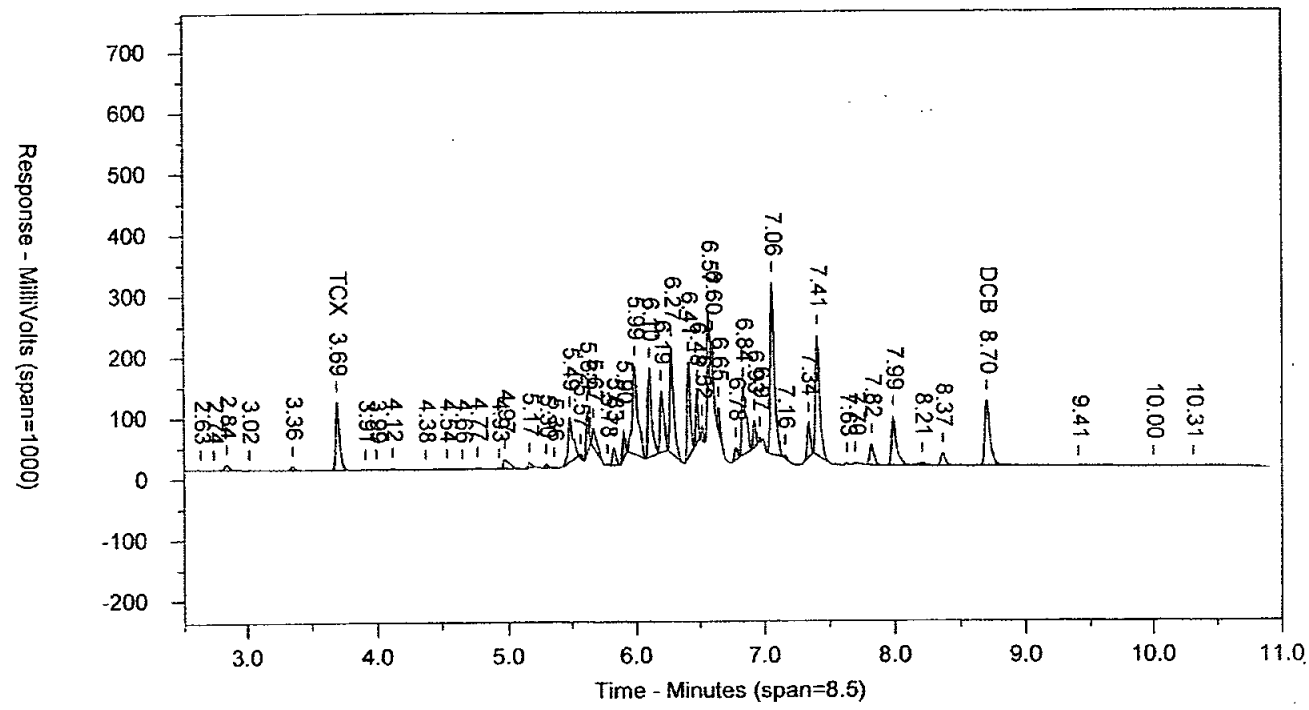

05X73 1215

Data Summary

Sample Name: 6721501 ACF 32--4 Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 10 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on Jul 20, 2012 06:26:00
Instrument H5088A
Result file 9P7190.033.RAW
Calibration file 1P7190
Method file PESTDI7

%SSR(TCX) 80% (33 - 143) Conc: 8.094809
%SSR(DCB) 83% (24 - 164) Conc: 8.233814

Analysis Report (B)

Injected on Jul 20, 2012 06:26:00
Instrument H5088B
Result file 9P7190B.033.RAW
Calibration file 1P7190B
Method file PESTDI7B

%SSR(TCX) 95% (33 - 143) Conc: 9.679756
%SSR(DCB) 91% (24 - 164) Conc: 8.982002

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.85	3.88	262917	8.094809
Decachlorobiphenyl	9.23	9.25	9.29	143046	8.233814

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.66	3.69	3.72	108386	9.679756
Decachlorobiphenyl	8.68	8.70	8.74	103523	8.982002

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	9.679756				17.83	
☑ Decachlorobiphenyl	B	8.982002				8.69	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**17.79**	
5.82	5.85	5.88	7107.102539	8.011625			1
6.14	6.16	6.20	7250.73291	6.482463			2
6.39	6.42	6.45	8463.032227	9.30089			3
Height summation:			**22820.867676**				
Concentration		CF:	**7.931659**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**51.09**	
5.96	5.99	6.02	6789.465332	10.162059			2
6.08	6.10	6.14	7323.95752	22.711814			3
6.17	6.20	6.23	4532.835938	9.983051			4
Height summation:			**18646.25879**				
Concentration		CF:	**14.285641**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**9.29**	
7.04	7.06	7.10	9099.794922	11.57837			4
7.35	7.37	7.41	22673.472656	13.118888			5
7.65	7.68	7.71	9810.795898	10.978179			6
Height summation:			**41584.063476**				
Concentration		CF:	**11.891812**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**8.70**	
6.76	6.79	6.82	699.756836	10.765681			4
7.04	7.07	7.10	12911.030273	12.57747			5
7.39	7.41	7.45	9112.197266	12.560229			6
Height summation:			**22722.984375**				
Concentration		CF:	**11.967793**	L:			

Data Summary

Sample Name: 6721501 ACF 32--4 Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 10 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 06:26:00
Instrument	H5088A
Result file	9P7190.033.RAW
Calibration file	1P7190
Method file	PESTDI7

Analysis Report (B)

Injected on	Jul 20, 2012 06:26:00
Instrument	H5088B
Result file	9P7190B.033.RAW
Calibration file	1P7190B
Method file	PESTDI7B

Multiple Component Summary

	Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
☑	Aroclor-1016			<16.7763	<3.5526			4	40	
☑	Aroclor-1221			<16.7763	<4.5395			3	40	
☑	Aroclor-1232			<16.7763	<7.8947			4	40	
☑	Aroclor-1242			<16.7763	<3.2566			4	40	
☑	Aroclor-1248			<16.7763	<3.2566			4	40	
☑	Aroclor-1254	B	14.285641	<16.7763	3.2566	J	57.20	4	40	
☑	Aroclor-1260	B	11.967793	<16.7763	4.8355	J	0.64	4	40	
☐	Aroclor-1262			<16.7763	<3.2566			4	40	
☐	Aroclor-1268			<16.7763	<3.2566			4	40	
☐	Total PCBs	A	26.253435	16.7763	3.2566		200.00			

Units: ug/kg

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

Reviewed by: Monica M. Souders
Monica M. Souders
Chemist
Date: JUL 20 2012

Verified by: Jennifer E. Lewis
Jennifer E. Lewis
Manager
Date: JUL 25 2012

7/20/2012

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721501** ACF 32--4 Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 10 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 06:26:00
Instrument : CP 7--H5088A
Result file : 9p7190.033.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

%SSR(TCX) : 80% (33-143) Conc.: 8.094809
%SSR(DCB) : 83% (24-164) Conc.: 8.233814

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					1		
5.29	5.32	5.35	788.753723	1.451388			6
Height Summation:			**788.753723**				
Amount Avg CF:			**1.451388**	Linear:			
Aroclor-1221					1		
4.11	4.13	4.17	3669.456787	12.097802			2
Height Summation:			**3669.456787**				
Amount Avg CF:			**12.097802**	Linear:			
Aroclor-1232					1		
5.30	5.32	5.36	788.753723	3.053351			6
Height Summation:			**788.753723**				
Amount Avg CF:			**3.053351**	Linear:			
Aroclor-1242					1		
5.30	5.32	5.36	788.753723	1.806374			6
Height Summation:			**788.753723**				
Amount Avg CF:			**1.806374**	Linear:			
Aroclor-1248					4	**108.84**	
5.30	5.32	5.36	788.753723	1.096651			3
5.42	5.44	5.48	537.11084	1.044546			4
6.14	6.16	6.20	7250.73291	20.113147			5
6.40	6.42	6.46	8463.032227	28.168892			6
Height Summation:			**17039.629700**				
Amount Avg CF:			**12.605809**	Linear:			
Aroclor-1254					6	**51.13**	
5.82	5.85	5.88	7107.102539	8.011625			1
6.14	6.16	6.20	7250.73291	6.482463			2
6.39	6.42	6.45	8463.032227	9.30089			3
6.54	6.55	6.60	14839.253906	24.576046			4
6.63	6.65	6.69	9909.777344	15.690831			5
6.77	6.79	6.83	17041.181641	18.003717			6
Height Summation:			**64611.080567**				
Amount Avg CF:			**13.677595**	Linear:			
Aroclor-1260					6	**9.89**	
6.29	6.31	6.35	10554.341797	10.614281			1
6.52	6.55	6.58	14839.253906	12.447269			2
6.77	6.79	6.83	17041.181641	13.590382			3
7.04	7.06	7.10	9099.794922	11.57837			4
7.35	7.37	7.41	22673.472656	13.118888			5
7.65	7.68	7.71	9810.795898	10.978179			6
Height Summation:			**84018.840820**				
Amount Avg CF:			**12.054562**	Linear:			
Aroclor-1262					6	**44.85**	
6.52	6.55	6.58	14839.253906	17.904281			1
6.84	6.86	6.90	5649.392578	5.989856			2
7.04	7.06	7.10	9099.794922	9.857258			3
7.35	7.37	7.41	22673.472656	10.607925			4
7.65	7.68	7.71	9810.795898	8.216185			5
8.42	8.44	8.48	5161.990234	6.18126			6
Height Summation:			**67234.700194**				
Amount Avg CF:			**9.792794**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 06:26:00
Instrument : CP 7--H5088B
Result file : 9p7190B.033.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : 95% (33-143) Conc.: 9.679756
%SSR(DCB) : 91% (24-164) Conc.: 8.982002

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1221					1		
3.98	3.99	4.04	1144.7854	10.765413			2
Height Summation:			**1144.785400**				
Amount Avg CF:			**10.765413**	Linear:			
Aroclor-1248					3	**82.72**	
5.14	5.17	5.20	353.080902	1.245801			3
5.96	5.99	6.02	6789.465332	35.52644			5
6.17	6.20	6.23	4532.835938	29.912702			6
Height Summation:			**11675.382172**				
Amount Avg CF:			**22.228314**	Linear:			
Aroclor-1254					6	**55.25**	
5.46	5.49	5.52	2050.000488	3.79117			1
5.96	5.99	6.02	6789.465332	10.162059			2
6.08	6.10	6.14	7323.95752	22.711814			3
6.17	6.20	6.23	4532.835938	9.983051			4
6.39	6.41	6.45	6961.17041	24.731701			5
6.55	6.57	6.61	9288.597656	17.277224			6
Height Summation:			**36946.027344**				
Amount Avg CF:			**14.77617**	Linear:			
Aroclor-1260					6	**34.58**	
6.25	6.28	6.31	8924.233398	13.756508			1
6.39	6.41	6.45	6961.17041	11.971452			2
6.55	6.57	6.61	9288.597656	24.208520			3
6.76	6.79	6.82	699.756836	10.765681			4
7.04	7.07	7.10	12911.030273	12.57747			5
7.39	7.41	7.45	9112.197266	12.560229			6
Height Summation:			**47896.985839**				
Amount Avg CF:			**14.306644**	Linear:			
Aroclor-1262					5	**31.91**	
6.39	6.41	6.45	6961.17041	14.452073			1
6.81	6.84	6.87	4790.991699	7.524932			3
7.04	7.07	7.10	12911.030273	9.842639			4
7.39	7.41	7.45	9112.197266	9.554334			5
7.97	7.99	8.03	3630.906738	6.521662			6
Height Summation:			**37406.296386**				
Amount Avg CF:			**9.579128**	Linear:			
Aroclor-1268					5	**98.06**	
7.32	7.34	7.38	2677.474365	1.725147			1
7.39	7.41	7.45	9112.197266	6.261742			2
7.61	7.63	7.67	810.724304	0.553284			3
7.97	7.99	8.03	3630.906738	5.71787			5
8.34	8.37	8.40	1341.368408	0.328729			6
Height Summation:			**17572.671081**				
Amount Avg CF:			**2.917354**	Linear:			

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721501** ACF 32--4 Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30.4 g Total Volume: 10 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 06:26:00
Instrument : CP 7--H5088A
Result file : 9p7190.033.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1268					**6**	**80.25**	
7.65	7.68	7.71	9810.795898	4.053323			1
7.74	7.76	7.80	3038.674316	1.459058			2
7.97	7.99	8.03	1144.386475	0.524919			3
8.08	8.14	8.14	2039.893799	3.752161			4
8.43	8.44	8.49	5161.990234	5.293997			5
8.87	8.89	8.93	2182.562988	0.358265			6

Height Summation: **23378.303710**
Amount Avg CF: **2.573621** Linear:

Analysis Report (B)

Injected on : JUL 20, 2012 06:26:00
Instrument : CP 7--H5088B
Result file : 9p7190B.033.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			16.7763	3.5526			4	40	
Aroclor-1221			16.7763	4.5395		11.66	3	40	
Aroclor-1232			16.7763	7.8947			4	40	
Aroclor-1242			16.7763	3.2566			4	40	
Aroclor-1248			16.7763	3.2566		** 55.25	4	40	
Aroclor-1254			16.7763	3.2566		7.72	4	40	
Aroclor-1260			16.7763	4.8355		17.09	4	40	
Aroclor-1262			16.7763	3.2566		2.21	4	40	
Aroclor-1268			16.7763	3.2566		12.52	4	40	
Total PCBs			16.7763	3.2566					

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 6721501ACF AB32--4 T 121990024A 10736 Injection Volume 8W1846 8082
Injected On: 7/20/2012 6:26:00 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.033.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.632		18031	66463
1.887		502	1160
1.988		1860	5692
2.172		3220	7390
2.214		6476	21436
2.411		386	584
2.463		6314	18654
2.712		5852	17140
2.918		1719	4384
2.972		1153	1827
3.003		1003	1203
3.127		296	478
3.246		1244	4270
3.35		422	866
3.48		1603	3265
3.629		309	1063
3.853	TCX	262917	552664
4.13		3669	8346
4.287		1017	2890
4.632		650	2656
4.75		481	962
4.836		185	404
5.028		1676	14575
5.149		1405	5203
5.318		789	1735
5.441		537	1163
5.649		3999	8518
5.702		1039	1354
5.793		575	757
5.847		7107	11734
6.024		2002	3568
6.097		1364	3155
6.162		7251	11732
6.219		2771	4778
6.312		10554	25211
6.419		8463	16110
6.485		1183	1873
6.549		14839	44891
6.654		9910	19757
6.746		586	640
6.791		17041	36530
6.863		5649	8623
6.913		2994	4881
7.06		9100	23620
7.134		2783	4422
7.18		1099	1697
7.294		2732	4556
7.373		22673	83256
7.676		9811	19545
7.758		3039	7453
7.985		1144	2889
8.141		2040	6109
8.445		5162	15454

ASX73 1221

RT A	Compound A	Height A	Area A
8.885		2183	8356
9.249	DCB	143046	532334
10.07		232	1026
10.147		279	868
10.622		174	497

ASX73 1222

LANCASTER LABORATORIES

Sample Number: 6721501ACF AB32--4 T 121990024A 10736 Injection Volume: 1SW-846 8082
Injected On: 7/20/2012 6:26:00 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.033.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.627		53869	322046
1.763		14932	61889
2.057		2175	5980
2.194		607	1135
2.253		2228	6109
2.484		1602	4379
2.739		934	1933
2.837		399	865
3.018		224	417
3.358		496	1797
3.693	TCX	108386	214616
3.993		1145	2331
4.122		409	1101
4.448		248	911
4.832		417	2090
4.976		473	693
5.165		353	1227
5.491		2050	3091
5.623		2996	4530
5.669		1005	2513
5.827		1222	2273
5.905		1836	2890
5.991		6789	21633
6.105		7324	15974
6.196		4533	10704
6.278		8924	19351
6.412		6961	13204
6.477		2963	4337
6.521		1002	1177
6.572		9289	26845
6.651		1389	1910
6.785		700	1375
6.839		4791	11764
6.928		1883	2797
7.066		12911	29251
7.269		556	1877
7.343		2677	4762
7.41		9112	20517
7.635		811	1727
7.822		1440	3227
7.993		3631	10054
8.366		1341	3147
8.703	DCB	103523	286523
10.676		1177	16679

ASX73 1223

6721501ACF AB32--4 T 121990024A 10736 SW-846 8082

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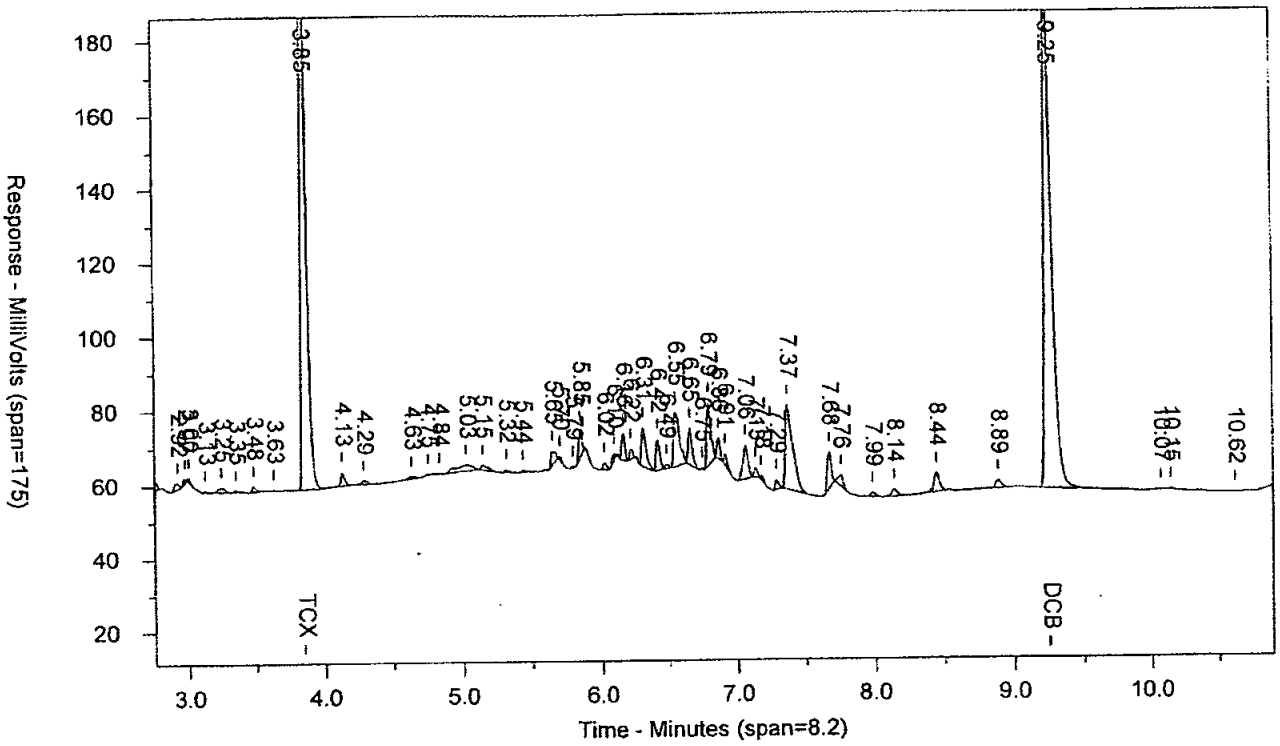

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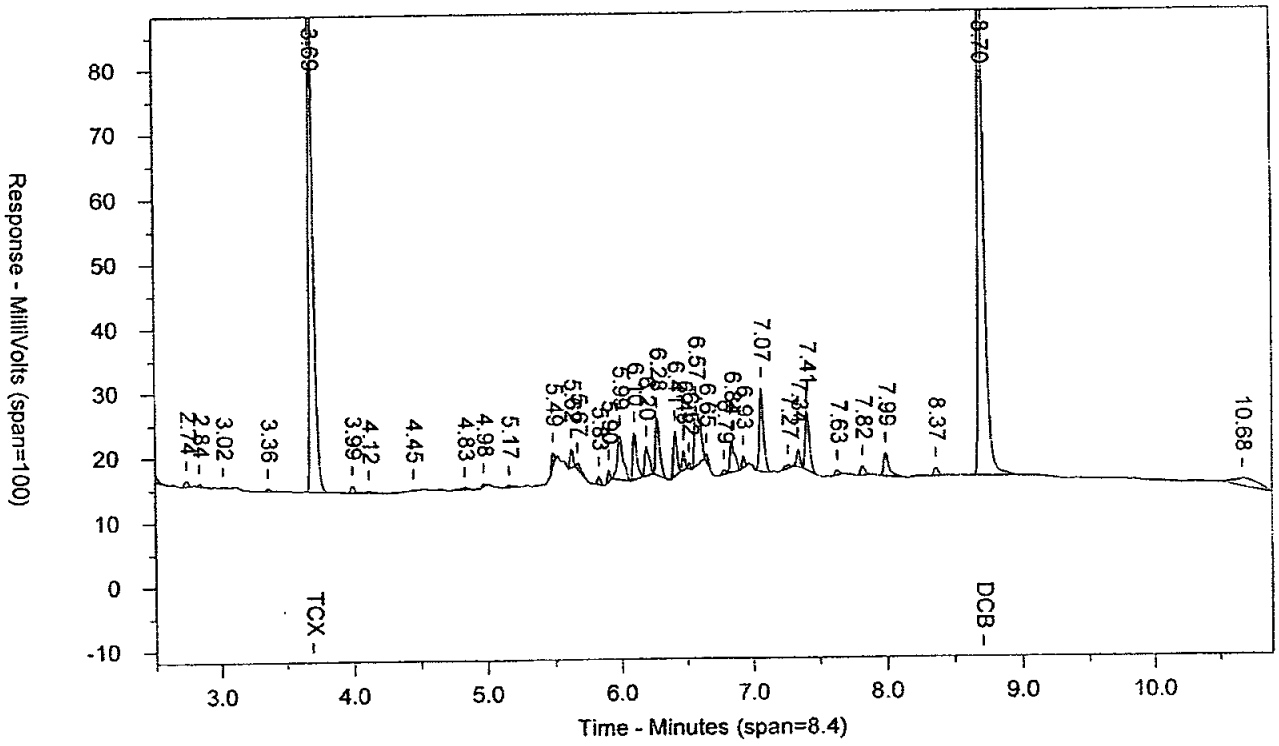

ASX73 1224

LANCASTER LABORATORIES

Sample Number: 6721501ACF AB32--4 T 121990024A 10736 Sample Weight: 8082
Injected On: 7/20/2012 6:26:00 AM Dilution Factor: 10
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.853	262917	8.095	TCX	3.693	108386	9.68	TCX
9.249	143046	8.234	DCB	8.703	103523	8.982	DCB

Files:
Area File: 9p7190.033.RAW
Area File: 9p7190B.033.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 6:36:36 AM
File Reported On: 7/20/2012 at 6:37:00 AM

ASX73 1225

6721501ACF AB32--4 T 121990024A 10736 SW-846 8082

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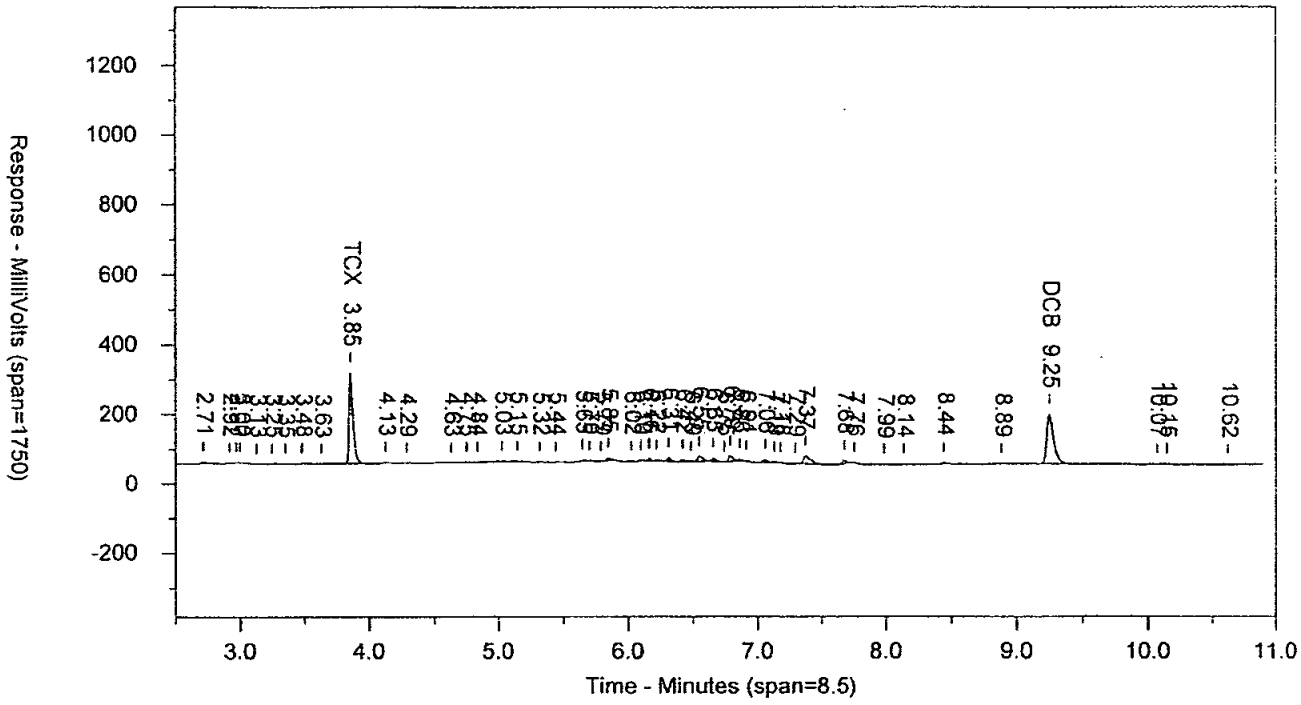

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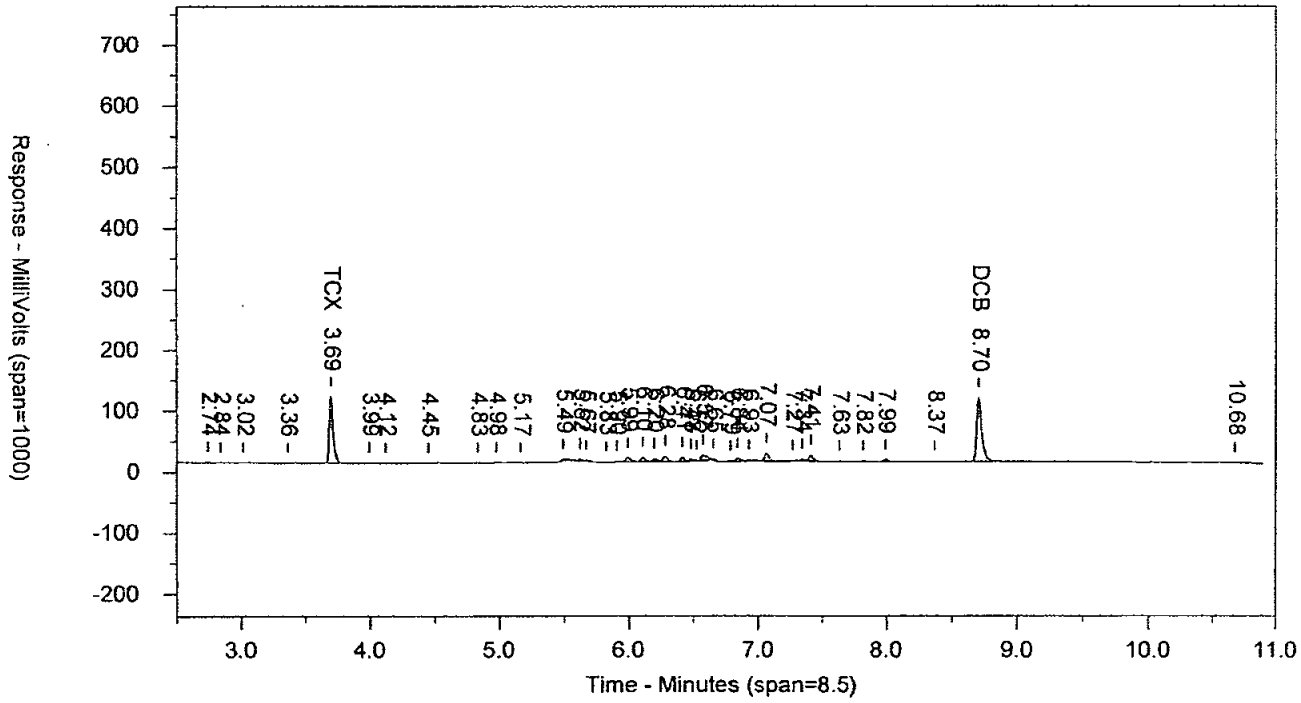

ASX73 1226

Data Summary

Sample Name: 6721504 AF EB713 Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 926 ml Total Volume: 10 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10227

Analysis Report (A)

Injected on	Jul 20, 2012 03:29:24
Instrument	H5088A
Result file	9P7190.021.RAW
Calibration file	1P7190
Method file	PESTDI7

%SSR(TCX) 92% (55 - 132) Conc: 0.306227
%SSR(DCB) 78% (36 - 153) Conc: 0.253253

Analysis Report (B)

Injected on	Jul 20, 2012 03:29:24
Instrument	H5088B
Result file	9P7190B.021.RAW
Calibration file	1P7190B
Method file	PESTDI7B

%SSR(TCX) 110% (55 - 132) Conc: 0.365948
%SSR(DCB) 85% (36 - 153) Conc: 0.275638

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.85	3.88	302965	0.306227
Decachlorobiphenyl	9.23	9.25	9.29	135490	0.253253

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.66	3.69	3.72	124814	0.365948
Decachlorobiphenyl	8.68	8.70	8.74	96769	0.275638

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☑ Tetrachloro-m-xylene	B	0.365948				17.77	
☑ Decachlorobiphenyl	B	0.275638				8.46	

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
☑ Aroclor-1016			<0.54	<0.108			4	40	
☑ Aroclor-1221			<0.54	<0.108			3	40	
☑ Aroclor-1232			<0.54	<0.216			4	40	
☑ Aroclor-1242			<0.54	<0.108			4	40	
☑ Aroclor-1248			<0.54	<0.108			4	40	
☑ Aroclor-1254			<0.54	<0.108			4	40	
☑ Aroclor-1260			<0.54	<0.162			4	40	
☐ Aroclor-1262			<0.54	<0.216			4	40	
☐ Aroclor-1268			<0.54	<0.1728			4	40	
☐ Total PCBs			<0.54	<0.216					

Units: ug/l

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

Reviewed by: Monica M. Souders, Chemist
Date: JUL 20 2012

Verified by: Jennifer E. Lewis, Manager
Date: JUL 25 2012

7/20/2012

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: 6721504 AF EB713 Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 926 ml Total Volume: 10 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10227

Analysis Report (A)

Injected on : JUL 20, 2012 03:29:24
Instrument : CP 7--H5088A
Result file : 9p7190.021.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

LMDL

%SSR(TCX) : 92% (55-132) Conc.: 0.306227
%SSR(DCB) : 78% (36-153) Conc.: 0.253253

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					1		
4.64	4.66	4.70	158.815216	0.00712			2
Height Summation:			**158.815216**				
Amount Avg CF:			**0.00712**	Linear:			
Aroclor-1221					1		
4.11	4.13	4.17	4513.86084	0.488557			2
Height Summation:			**4513.860840**				
Amount Avg CF:			**0.488557**	Linear:			
Aroclor-1232					1		
4.64	4.66	4.71	158.815216	0.014774			2
Height Summation:			**158.815216**				
Amount Avg CF:			**0.014774**	Linear:			
Aroclor-1242					1		
4.64	4.66	4.70	158.815216	0.009179			2
Height Summation:			**158.815216**				
Amount Avg CF:			**0.009179**	Linear:			
Aroclor-1254					1		
5.82	5.84	5.88	621.936829	0.023016			1
Height Summation:			**621.936829**				
Amount Avg CF:			**0.023016**	Linear:			
Aroclor-1260					3	**88.21**	
6.29	6.32	6.35	1124.070313	0.037112			1
6.52	6.54	6.58	637.861511	0.017565			2
7.65	7.68	7.71	87.263092	0.003206			6
Height Summation:			**1849.194916**				
Amount Avg CF:			**0.019294**	Linear:			
Aroclor-1262					2	**116.89**	
6.52	6.54	6.58	637.861511	0.025266			1
7.65	7.68	7.71	87.263092	0.002399			5
Height Summation:			**725.124603**				
Amount Avg CF:			**0.013833**	Linear:			
Aroclor-1268					4	**73.37**	
7.65	7.68	7.71	87.263092	0.001184			1
7.97	7.99	8.03	1033.959717	0.01557			3
8.08	8.11	8.14	157.845276	0.009532			4
8.87	8.89	8.93	1200.873657	0.006471			6
Height Summation:			**2479.941742**				
Amount Avg CF:			**0.008189**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 03:29:24
Instrument : CP 7--H5088B
Result file : 9p7190B.021.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : 110% (55-132) Conc.: 0.365948
%SSR(DCB) : 85% (36-153) Conc.: 0.275638

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1221					1		
3.98	3.99	4.04	1370.616211	0.423141			2
Height Summation:			**1370.616211**				
Amount Avg CF:			**0.423141**	Linear:			
Aroclor-1232					1		
4.35	4.41	4.41	289.235901	0.044736			2
Height Summation:			**289.235901**				
Amount Avg CF:			**0.044736**	Linear:			
Aroclor-1248					1		
5.96	6.01	6.02	657.038452	0.112868			5
Height Summation:			**657.038452**				
Amount Avg CF:			**0.112868**	Linear:			
Aroclor-1254					2	**19.14**	
5.96	6.01	6.02	657.038452	0.032285			2
6.39	6.42	6.45	363.449188	0.042391			5
Height Summation:			**1020.487640**				
Amount Avg CF:			**0.037338**	Linear:			
Aroclor-1260					2	**45.12**	
6.39	6.42	6.45	363.449188	0.02052			2
7.39	7.41	7.45	234.095444	0.010593			6
Height Summation:			**597.544632**				
Amount Avg CF:			**0.015557**	Linear:			
Aroclor-1262					2	**72.00**	
6.39	6.42	6.45	363.449188	0.024772			1
7.39	7.41	7.45	234.095444	0.008058			5
Height Summation:			**597.544632**				
Amount Avg CF:			**0.016415**	Linear:			
Aroclor-1268					3	**74.45**	
7.39	7.41	7.45	234.095444	0.005281			2
7.61	7.63	7.67	742.723999	0.01664			3
8.34	8.37	8.40	612.230774	0.004926			6
Height Summation:			**1589.050217**				
Amount Avg CF:			**0.008949**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0.54	0.108			4	40	
Aroclor-1221			0.54	0.108		14.35	3	40	
Aroclor-1232			0.54	0.216		** 100.70	4	40	
Aroclor-1242			0.54	0.108			4	40	
Aroclor-1248			0.54	0.108			4	40	
Aroclor-1254			0.54	0.108		** 47.46	4	40	
Aroclor-1260			0.54	0.162		21.45	4	40	

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: 6721504 AF EB713 Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 926 ml Total Volume: 10 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10227

Analysis Report (A)

Injected on : JUL 20, 2012 03:29:24
Instrument : CP 7--H5088A
Result file : 9p7190.021.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Analysis Report (B)

Injected on : JUL 20, 2012 03:29:24
Instrument : CP 7--H5088B
Result file : 9p7190B.021.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1262			0.54	0.216		17.07	4	40	
Aroclor-1268			0.54	0.1728		8.87	4	40	
Total PCBs			0.54	0.216					

Units: ug/l

LANCASTER LABORATORIES

Sample Number: 6721504AF ABEB713 T 121990013A 10227 Injection Volume: SW-846 8082
Injected On: 7/20/2012 3:29:24 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.021.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.602		13845	44443
1.763		3742	11691
2.089		1736	8819
2.176		2001	8044
2.254		1516	3228
2.356		854	3133
2.463		162	787
2.63		977	2095
2.81		3570	9421
2.921		6443	10024
3.011		6389	16841
3.129		21823	37485
3.271		146	360
3.349		509	1069
3.496		177	406
3.583		426	822
3.773		226	329
3.853	TCX	302965	646490
4.13		4514	10683
4.311		728	1537
4.6		776	1072
4.657		159	304
4.772		575	1653
4.873		502	636
5.022		1487	13316
5.597		1147	67660
5.753		238	1034
5.841		622	5381
6.323		1124	9614
6.538		638	2743
7.678		87	205
7.987		1034	2645
8.108		158	413
8.886		1201	16305
9.248	DCB	135490	509302

ASX73 1238

LANCASTER LABORATORIES

Sample Number: 6721504AF ABEB713 T 121990013A 10227 Injection Volume: 1SW-846 8082
Injected On: 7/20/2012 3:29:24 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.021.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.595		78135	832867
2.111		375	763
2.74		1316	3054
2.954		428	2430
3.013		5333	12921
3.694	TCX	124814	245171
3.994		1371	2753
4.41		289	401
4.828		210	766
4.979		172	579
5.412		715	11917
6.008		657	3699
6.424		363	10345
7.207		195	1081
7.412		234	1109
7.634		743	1684
8.366		612	1427
8.703	DCB	96769	281702

ASX73 1231

6721504AF ABEB713 T 121990013A 10227 SW-846 8082

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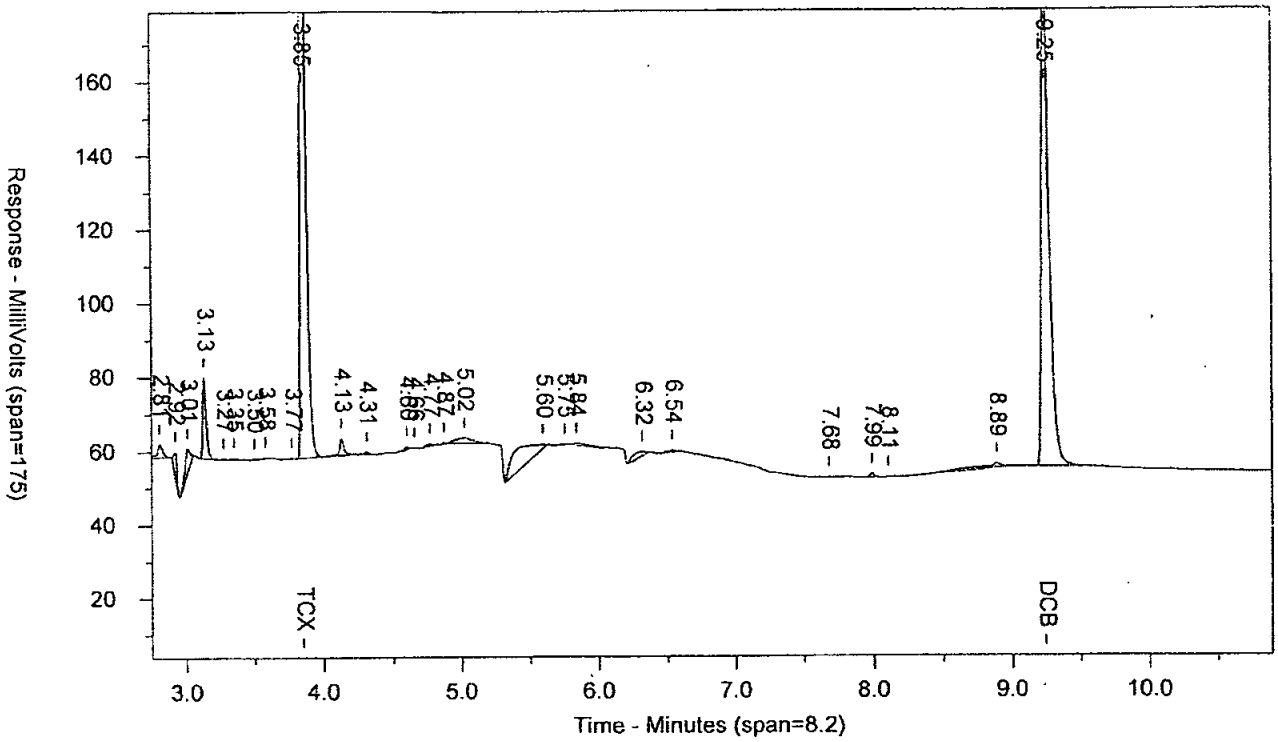

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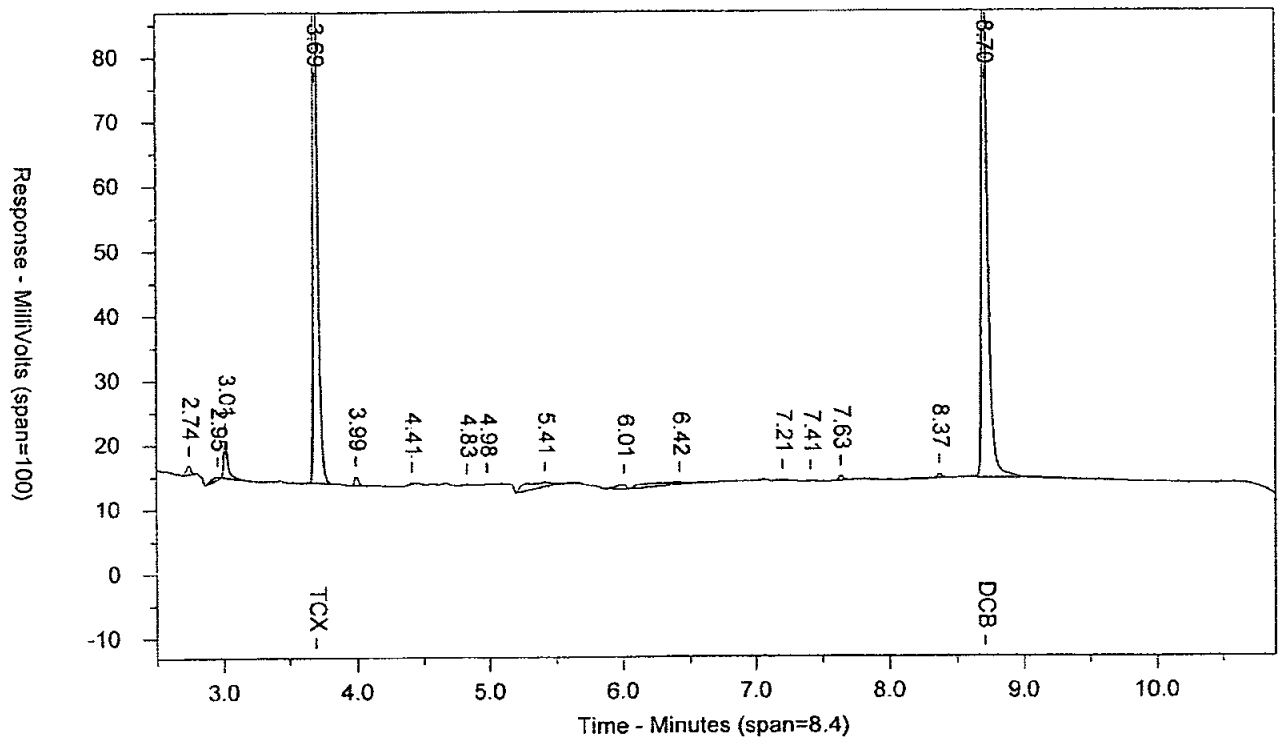

ASX73 1282

LANCASTER LABORATORIES

Sample Number: 6721504AF ABEB713 T 121990013A 10227 Sample Weight: 9.846 8082
Injected On: 7/20/2012 3:29:24 AM Dilution Factor: 10
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.853	302965	.306	TCX	3.694	124814	.366	TCX
9.248	135490	.253	DCB	8.703	96769	.276	DCB

Files:
Area File: 9p7190.021.RAW
Area File: 9p7190B.021.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 3:40:00 AM
File Reported On: 7/20/2012 at 3:40:28 AM

ASX73 1233

6721504AF ABEB713 T 121990013A 10227 SW-846 8082

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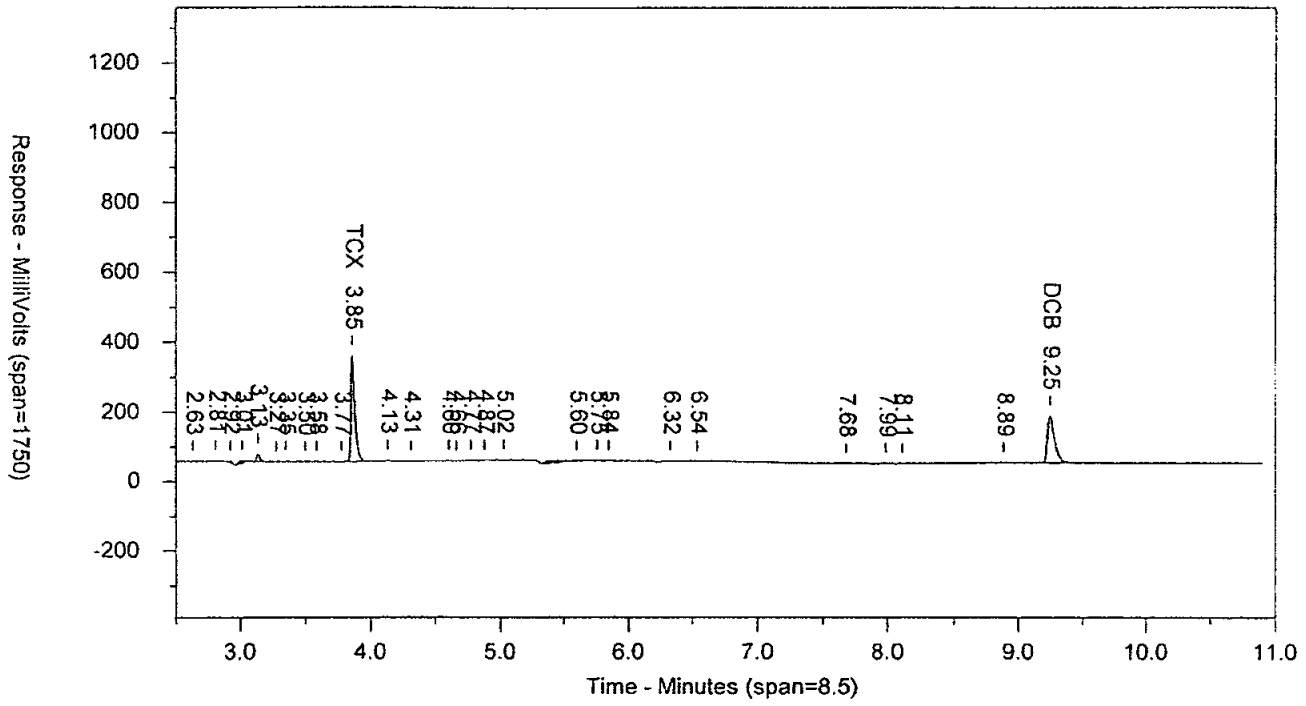

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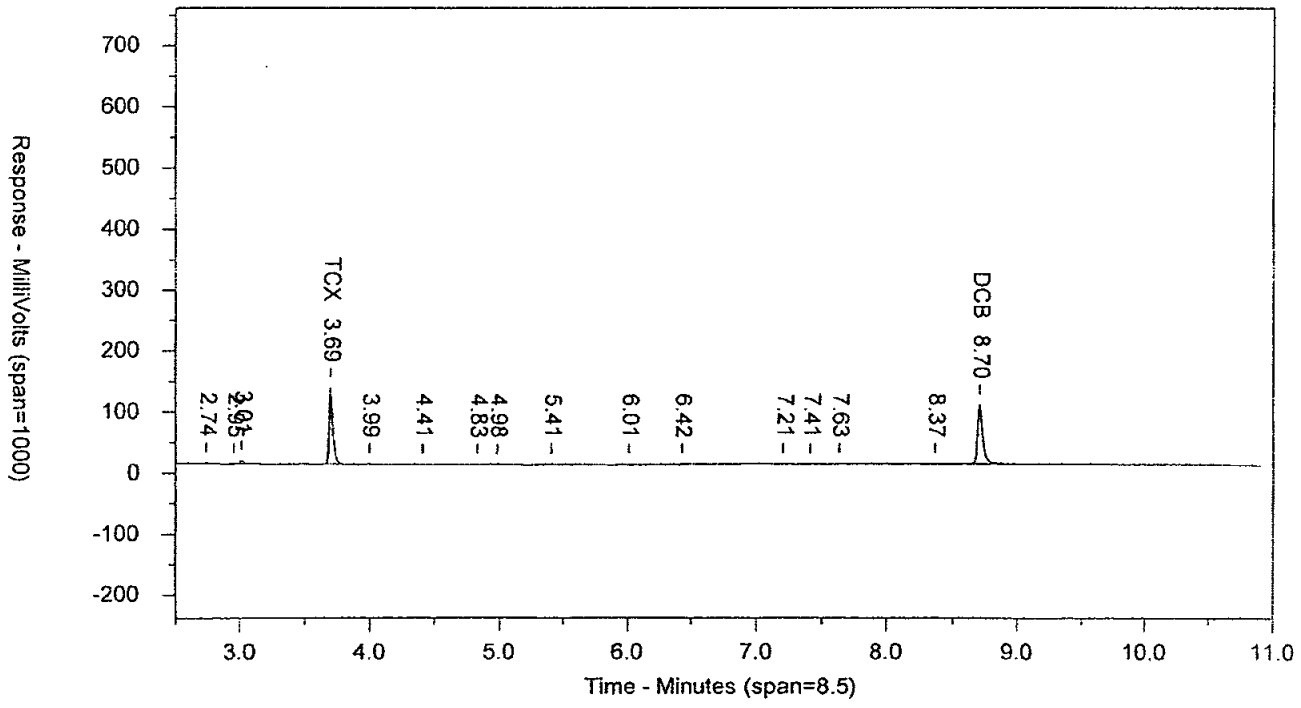

49X73 1234

Standards Data

ASX73 1235

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\chromperfect-data\Dept-24\Active\CP7\1p7190.seq

Chromatography Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Method Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Number of Entries: 74

	Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	1	MISC	AA	1p7190.01R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
2	CONDITIONER	2	MISC	AA	1p7190.02R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
3	CONDITIONER	3	MISC	AA	1p7190.03R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
4	CONDITIONER	4	MISC	AA	1p7190.04R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
5	IBLKX1224C	5	PIBLK	AA	1p7190.05R	:\CP7\PESTDI7.MET	1000	10	1	0	1218999999	
6	AR1611224B	6	ICAL	AA	1p7190.06R	:\CP7\PESTDI7.MET	1	1	1	1	1218999999	
7	AR1621224B	7	ICAL	AA	1p7190.07R	:\CP7\PESTDI7.MET	1	1	1	2	1218999999	
8	AR1631224B	8	ICAL	AA	1p7190.08R	:\CP7\PESTDI7.MET	1	1	1	3	1218999999	
9	AR1641224B	9	ICAL	AA	1p7190.09R	:\CP7\PESTDI7.MET	1	1	1	4	1218999999	
10	AR1651224B	10	ICAL	AA	1p7190.10R	:\CP7\PESTDI7.MET	1	1	1	5	1218999999	
11	AR4811224A	11	ICAL	AA	1p7190.11R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
12	AR4821224A	12	ICAL	AA	1p7190.12R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
13	AR4831224A	13	ICAL	AA	1p7190.13R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
14	AR4811224A	14	ICAL	AA	1p7190.14R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
15	AR4841224A	15	ICAL	AA	1p7190.15R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
16	AR4851224A	16	ICAL	AA	1p7190.16R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
17	AR5411224A	17	ICAL	AA	1p7190.17R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
18	AR5421224A	18	ICAL	AA	1p7190.18R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
19	AR5431224A	19	ICAL	AA	1p7190.19R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
20	AR5441224A	20	ICAL	AA	1p7190.20R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
21	AR5451224A	21	ICAL	AA	1p7190.21R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
22	AR6231224A	22	ICAL	AA	1p7190.22R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
23	AR6831224A	23	ICAL	AA	1p7190.23R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
24	AR2131224A	24	ICAL	AA	1p7190.24R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
25	AR32X1224B	25	ICAL	AA	1p7190.25R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
26	AR4231224A	26	ICAL	AA	1p7190.26R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
27	AR16XX1224B	27	ICAL	AA	1p7190.27R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
28	MD16X1224B	28	ICAL	AA	1p7190.28R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
29	IC16X1224B	29	CCAL	AA	1p7190.29R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
30	IC48X1224A	30	CCAL	AA	1p7190.30R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
31	AR4821224A	31	CCAL	BQ	1p7190.31R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
32	IC16X1224B	32	CCAL	NB	1p7190.32R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
33	IC48X1224A	33	CCAL	CC	1p7190.33R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
34	IC54X1224A	34	CCAL	AA	1p7190.34R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
35	BLANKA 7/7/12AF	35	BLK	AB	1p7190.35R	:\CP7\PESTDI7.MET	1000	10	1	0	121880003A	10591
36	LCSA 7/7/12AF	36	LCS	AB	1p7190.36R	:\CP7\PESTDI7.MET	1000	10	1	0	121880003A	10591
37	LCSDA 7/7/12AF	37	LCSD	AB	1p7190.37R	:\CP7\PESTDI7.MET	1000	10	1	0	121880003A	10591
38	6711646AF	38	T	AB	1p7190.38R	:\CP7\PESTDI7.MET	1055	10	1	0	121880003A	10591
39	6713123AF	39	T	AB	1p7190.39R	:\CP7\PESTDI7.MET	1045	10	1	0	121880003A	10591
40	AR1631224B	40	CCAL	QV	1p7190.40R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
41	IBLKX1224C	41	PIBLK	II	1p7190.41R	:\CP7\PESTDI7.MET	1000	10	1	0	1218999999	
42	MS1218424A	42	MISC	AA	1p7190.42R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
43	MS1218424B	43	MISC	AA	1p7190.43R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
44	BLANKA 6/28/12 RI A	44	BLK	AB	1p7190.44R	:\CP7\PESTDI7.MET	30	10	1	0	121790017A	
45	DCBA 6/28/12 RI A	45	CRDL	AB	1p7190.45R	:\CP7\PESTDI7.MET	30	10	1	0	121790017A	
46	DCBB 6/28/12 RI A	46	CRDL	AB	1p7190.46R	:\CP7\PESTDI7.MET	30	10	1	0	121790017A	
47	DCBC 6/28/12 RI A	47	CRDL	AB	1p7190.47R	:\CP7\PESTDI7.MET	30	10	1	0	121790017A	
48	DCBD 6/28/12 RI A	48	CRDL	AB	1p7190.48R	:\CP7\PESTDI7.MET	30	10	1	0	121790017A	
49	DCBE 6/28/12 RI A	49	CRDL	AB	1p7190.49R	:\CP7\PESTDI7.MET	30	10	1	0	121790017A	
50	DCBF 6/28/12 RI A	50	CRDL	AB	1p7190.50R	:\CP7\PESTDI7.MET	30	10	1	0	121790017A	

did not use

did not use needed 10 X I level

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CHROM PERFECT SEQUENCE FILE

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Method Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Number of Entries: 74

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51	DCBG 6/28/12 RI A	51	CRDL	AB	1p7190.51R	:\CP7\PESTDI7.MET	30	10	1	0	121790017A	
52	BLANKA 7/2/12 RI AF	52	BLK	AB	1p7190.52R	:\CP7\PESTDI7.MET	1000	10	1	0	121840009A	
53	DCBA 7/2/12 RI AF	53	CRDL	AB	1p7190.53R	:\CP7\PESTDI7.MET	1000	10	1	0	121840009A	
54	DCBB 7/2/12 RI AF	54	CRDL	AB	1p7190.54R	:\CP7\PESTDI7.MET	1000	10	1	0	121840009A	
55	DCBC 7/2/12 RI AF	55	CRDL	AB	1p7190.55R	:\CP7\PESTDI7.MET	1000	10	1	0	121840009A	
56	DCBD 7/2/12 RI AF	56	CRDL	AB	1p7190.56R	:\CP7\PESTDI7.MET	1000	10	1	0	121840009A	
57	DCBE 7/2/12 RI AF	57	CRDL	AB	1p7190.57R	:\CP7\PESTDI7.MET	1000	10	1	0	121840009A	
58	DCBF 7/2/12 RI AF	58	CRDL	AB	1p7190.58R	:\CP7\PESTDI7.MET	1000	10	1	0	121840009A	
59	DCBG 7/2/12 RI AF	59	CRDL	AB	1p7190.59R	:\CP7\PESTDI7.MET	1000	10	1	0	121840009A	
60	AR1631224B	60	CCAL	QU	1p7190.60R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
61	AR5431224A	61	CCAL	AS	1p7190.61R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
62	IBLKX1224C	62	PIBLK	IH	1p7190.62R	:\CP7\PESTDI7.MET	1000	10	1	0	1218999999	
63	BLANKA 7/7/12ACF	63	BLK	AB	1p7190.63R	:\CP7\PESTDI7.MET	30	10	1	0	121880017A	10736
64	LCSA 7/7/12ACF	64	LCS	AB	1p7190.64R	:\CP7\PESTDI7.MET	30	10	1	0	121880017A	10736
65	6712128ACF	65	T	AB	1p7190.65R	:\CP7\PESTDI7.MET	30.3	10	1	0	121880017A	10736
66	6712128MSACF	66	MS	AB	1p7190.66R	:\CP7\PESTDI7.MET	30.2	10	1	0	121880017A	10736
67	6712128MSDACF	67	MSD	AB	1p7190.67R	:\CP7\PESTDI7.MET	30.4	10	1	0	121880017A	10736
68	6712129ACF	68	T	AB	1p7190.68R	:\CP7\PESTDI7.MET	30.4	10	1	0	121880017A	10736
69	6712130ACF	69	T	AB	1p7190.69R	:\CP7\PESTDI7.MET	30.2	10	1	0	121880017A	10736
70	6712131ACF	70	T	AB	1p7190.70R	:\CP7\PESTDI7.MET	30.3	10	1	0	121880017A	10736
71	6712136ACF DF5	71	T	AC	1p7190.71R	:\CP7\PESTDI7.MET	30.1	50	1	0	121880017A	10736
72	AR1631224B	72	CCAL	QY	1p7190.72R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
73	AR5431224A	73	CCAL	AT	1p7190.73R	:\CP7\PESTDI7.MET	1	1	1	0	1218999999	
74	IBLKX1224C	74	PIBLK	IL	1p7190.74R	:\CP7\PESTDI7.MET	1000	10	1	0	1218999999	

Jamie L. Brithart
Jamie L. Brithart
Senior Chemist

Set-up by: JUL 09 2012 Date:

7/9/2012

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\9p7190.seq

Chromatography Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Method Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Number of Entries: 57

	Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	1	MISC	AA	9p7190.01R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
2	CONDITIONER	2	MISC	AA	9p7190.02R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
3	CONDITIONER	3	MISC	AA	9p7190.03R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
4	CONDITIONER	4	MISC	AA	9p7190.04R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
5	AR1631224B	5	CCAL	VX	9p7190.05R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
6	IBLKX1224C	6	PIBLK	NV	9p7190.06R	:\CP7\PESTDI7.MET	1000	10	1	0	1220099999	
7	BLANKA 7/19/12AF	7	BLK	AB	9p7190.07R	:\CP7\PESTDI7.MET	1000	10	1	0	122000023A	06030
8	LCSA 7/19/12AF	8	LCS	AB	9p7190.08R	:\CP7\PESTDI7.MET	1000	10	1	0	122000023A	06030
9	LCSDA 7/19/12AF	9	LCSD	AB	9p7190.09R	:\CP7\PESTDI7.MET	1000	10	1	0	122000023A	06030
10	6721477AF	10	T	AB	9p7190.10R	:\CP7\PESTDI7.MET	1055	10	1	0	122000023A	06030
11	BLANKA 7/19/12AF	11	BLK	AB	9p7190.11R	:\CP7\PESTDI7.MET	1000	10	1	0	122000021A	10227
12	LCSA 7/19/12AF	12	LCS	AB	9p7190.12R	:\CP7\PESTDI7.MET	1000	10	1	0	122000021A	10227
13	LCSDA 7/19/12AF	13	LCSD	AB	9p7190.13R	:\CP7\PESTDI7.MET	1000	10	1	0	122000021A	10227
14	6722557AF	14	T	AB	9p7190.14R	:\CP7\PESTDI7.MET	1052	10	1	0	122000021A	10227
15	CONDITIONER	15	MISC	AA	9p7190.15R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
16	AR1631224B	16	CCAL	VY	9p7190.16R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
17	IBLKX1224C	17	PIBLK	NW	9p7190.17R	:\CP7\PESTDI7.MET	1000	10	1	0	1220099999	
18	BLANKA 7/17/12AF	18	BLK	AB	9p7190.18R	:\CP7\PESTDI7.MET	1000	10	1	0	121990013A	10227
19	LCSA 7/17/12AF	19	LCS	AB	9p7190.19R	:\CP7\PESTDI7.MET	1000	10	1	0	121990013A	10227
20	LCSDA 7/17/12AF	20	LCSD	AB	9p7190.20R	:\CP7\PESTDI7.MET	1000	10	1	0	121990013A	10227
21	6721504AF	21	T	AB	9p7190.21R	:\CP7\PESTDI7.MET	926	10	1	0	121990013A	10227
22	AR1631224B	22	CCAL	VZ	9p7190.22R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
23	IBLKX1224C	23	PIBLK	NX	9p7190.23R	:\CP7\PESTDI7.MET	1000	10	1	0	1220099999	
24	BLANKA 7/18/12ACF	24	BLK	AB	9p7190.24R	:\CP7\PESTDI7.MET	30	10	1	0	121990024A	10736
25	LCSA 7/18/12ACF	25	LCS	AB	9p7190.25R	:\CP7\PESTDI7.MET	30	10	1	0	121990024A	10736
26	6721494ACF DF200	26	T	AC	9p7190.26R	:\CP7\PESTDI7.MET	30.3	2000	1	0	121990024A	10736
27	6721494MSACF DF200	27	MS	AC	9p7190.27R	:\CP7\PESTDI7.MET	30	2000	1	0	121990024A	10736
28	6721494MSDACF DF200	28	MSD	AC	9p7190.28R	:\CP7\PESTDI7.MET	30	2000	1	0	121990024A	10736
29	6721495ACF DF200	29	T	AC	9p7190.29R	:\CP7\PESTDI7.MET	30.4	2000	1	0	121990024A	10736
30	6721496ACF DF10	30	T	AC	9p7190.30R	:\CP7\PESTDI7.MET	30.5	100	1	0	121990024A	10736
31	6721499ACF DF50	31	T	AC	9p7190.31R	:\CP7\PESTDI7.MET	30.3	500	1	0	121990024A	10736
32	6721500ACF DF10	32	T	AC	9p7190.32R	:\CP7\PESTDI7.MET	30.4	100	1	0	121990024A	10736
33	6721501ACF	33	T	AB	9p7190.33R	:\CP7\PESTDI7.MET	30.4	10	1	0	121990024A	10736
34	AR1631224B	34	CCAL	WA	9p7190.34R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
35	IBLKX1224C	35	PIBLK	NY	9p7190.35R	:\CP7\PESTDI7.MET	1000	10	1	0	1220099999	
36	BLANKA 7/17/12ACF	36	BLK	AB	9p7190.36R	:\CP7\PESTDI7.MET	30	10	1	0	121980027A	10736
37	LCSA 7/17/12ACF	37	LCS	AB	9p7190.37R	:\CP7\PESTDI7.MET	30	10	1	0	121980027A	10736
38	6719303ACF DF500	38	T	AC	9p7190.38R	:\CP7\PESTDI7.MET	30.5	5000	1	0	121980027A	10736
39	6719304ACF DF200	39	T	AC	9p7190.39R	:\CP7\PESTDI7.MET	30.5	2000	1	0	121980027A	10736
40	6719305ACF DF500	40	T	AC	9p7190.40R	:\CP7\PESTDI7.MET	30.5	5000	1	0	121980027A	10736
41	6719306ACF DF100	41	T	AD	9p7190.41R	:\CP7\PESTDI7.MET	30.5	1000	1	0	121980027A	10736
42	CONDITIONER	42	MISC	AA	9p7190.42R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
43	6719307ACF	43	T	AB	9p7190.43R	:\CP7\PESTDI7.MET	30.5	10	1	0	121980027A	10736
44	6719308ACF	44	T	AB	9p7190.44R	:\CP7\PESTDI7.MET	30.5	10	1	0	121980027A	10736
45	6719309ACF	45	T	AB	9p7190.45R	:\CP7\PESTDI7.MET	30.5	10	1	0	121980027A	10736
46	6719310ACF	46	T	AB	9p7190.46R	:\CP7\PESTDI7.MET	30.5	10	1	0	121980027A	10736
47	6719311MSACF	47	MS	AB	9p7190.47R	:\CP7\PESTDI7.MET	30.5	10	1	0	121980027A	10736
48	6719312MSDACF	48	MSD	AB	9p7190.48R	:\CP7\PESTDI7.MET	30.5	10	1	0	121980027A	10736
49	6719314ACF DF5	49	T	AC	9p7190.49R	:\CP7\PESTDI7.MET	30.5	50	1	0	121980027A	10736
50	6719315ACF DF100	50	T	AC	9p7190.50R	:\CP7\PESTDI7.MET	30.5	1000	1	0	121980027A	10736

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\9p7190.seq

Chromatography Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Method Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Number of Entries: 57

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51	6719316ACF DF100	51	T	AC	9p7190.51R	:\CP7\PESTDI7.MET	30.5	1000	1	0	121980027A	10736
52	6719317ACF	52	T	AB	9p7190.52R	:\CP7\PESTDI7.MET	30.5	10	1	0	121980027A	10736
53	6719318ACF DF10	53	T	AC	9p7190.53R	:\CP7\PESTDI7.MET	30.5	100	1	0	121980027A	10736
54	CONDITIONER	54	MISC	AA	9p7190.54R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
55	CONDITIONER	55	MISC	AA	9p7190.55R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
56	AR1631224B	56	CCAL	WB	9p7190.56R	:\CP7\PESTDI7.MET	1	1	1	0	1220099999	
57	IBLKX1224C	57	PIBLK	NZ	9p7190.57R	:\CP7\PESTDI7.MET	1000	10	1	0	1220099999	

Set-up by: [signature] 2055 Date: 22 July 12

7/19/2012

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\chromperfect-data\Dept-24\Active\CP7\1P7207.seq

Chromatography Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Method Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Number of Entries: 36

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1	CONDITIONER	1	MISC	AA	1P7207.01R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
2	CONDITIONER	2	MISC	AA	1P7207.02R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
3	CONDITIONER	3	MISC	AA	1P7207.03R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
4	CONDITIONER	4	MISC	AA	1P7207.04R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
5	IBLKX1224C	5	PIBLK	AA	1P7207.05R	:\CP7\PESTDI7.MET	1000	10	1	0	1220699999	
6	AR1611224B	6	ICAL	AA	1P7207.06R	:\CP7\PESTDI7.MET	1	1	1	1	1220699999	
7	AR1621224B	7	ICAL	AA	1P7207.07R	:\CP7\PESTDI7.MET	1	1	1	2	1220699999	
8	AR1631224B	8	ICAL	AA	1P7207.08R	:\CP7\PESTDI7.MET	1	1	1	3	1220699999	
9	AR1641224B	9	ICAL	AA	1P7207.09R	:\CP7\PESTDI7.MET	1	1	1	4	1220699999	
10	AR1651224B	10	ICAL	AA	1P7207.10R	:\CP7\PESTDI7.MET	1	1	1	5	1220699999	
11	AR4811224A	11	ICAL	AA	1P7207.11R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
12	AR4821224A	12	ICAL	AA	1P7207.12R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
13	AR4831224A	13	ICAL	AA	1P7207.13R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
14	AR4841224A	14	ICAL	AA	1P7207.14R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
15	AR4851224A	15	ICAL	AA	1P7207.15R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
16	AR5411224A	16	ICAL	AA	1P7207.16R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
17	AR5421224A	17	ICAL	AA	1P7207.17R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
18	AR5431224A	18	ICAL	AA	1P7207.18R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
19	AR5441224A	19	ICAL	AA	1P7207.19R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
20	AR5451224A	20	ICAL	AA	1P7207.20R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
21	AR6231224B	21	ICAL	AA	1P7207.21R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
22	AR6831224B	22	ICAL	AA	1P7207.22R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
23	AR2131224A	23	ICAL	AA	1P7207.23R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
24	AR32X1224B	24	ICAL	AA	1P7207.24R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
25	AR4231224A	25	ICAL	AA	1P7207.25R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
26	AR16XX1224B	26	ICAL	AA	1P7207.26R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
27	MD16X1224B	27	ICAL	AA	1P7207.27R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
28	IC16X1224B	28	CCAL	AA	1P7207.28R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
29	IC48X1224A	29	CCAL	AA	1P7207.29R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
30	IC54X1224A	30	CCAL	AA	1P7207.30R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
31	IC48X1224A	31	CCAL	CF	1P7207.31R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
32	MS1218124B	32	CCAL	BO	1P7207.32R	:\CP7\PESTDI7.MET	1	10	1	0	1220699999	
33	FLORISIL	33	misc	AA	1P7207.33R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
34	MS1220724A	34	CCAL	AB	1P7207.34R	:\CP7\PESTDI7.MET	1	10	1	0	1220699999	
35	AR1631224B	35	CCAL	XX	1P7207.35R	:\CP7\PESTDI7.MET	1	1	1	0	1220699999	
36	IBLKX1224C	36	PIBLK	PR	1P7207.36R	:\CP7\PESTDI7.MET	1000	10	1	0	1220699999	

standard anticipated

Set-up by: 2855 Date: 25 July 12

7/25/2012

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\chromperfect-data\Dept-24\Active\CP7\2p7207.seq

Chromatography Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Method Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7

Number of Entries: 37

	Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	1	MISC	AA	2p7207.01R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
2	CONDITIONER	2	MISC	AA	2p7207.02R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
3	CONDITIONER	3	MISC	AA	2p7207.03R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
4	AR1631224B	4	CCAL	YM	2p7207.04R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
5	IBLKX1224C	5	PIBLK	QD	2p7207.05R	:\CP7\PESTDI7.MET	1000	10	1	0	1220799999	
6	6721499ACF DF500	6	T	AF	2p7207.06R	:\CP7\PESTDI7.MET	30.3	5000	1	0	121990024A	10736
7	AR1631224B	7	CCAL	YN	2p7207.07R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
8	IBLKX1224C	8	PIBLK	QE	2p7207.08R	:\CP7\PESTDI7.MET	1000	10	1	0	1220799999	
9	6721499ACF DF500	9	T	AF	2p7207.09R	:\CP7\PESTDI7.MET	30.3	5000	1	0	121990024A	10736
10	AR1631224B	10	CCAL	YP	2p7207.10R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
11	IBLKX1224C	11	PIBLK	QG	2p7207.11R	:\CP7\PESTDI7.MET	1000	10	1	0	1220799999	
12	6722521ACF DF50	12	T	AE	2p7207.12R	:\CP7\PESTDI7.MET	30	500	1	0	122000014A	10736
13	6722522ACF DF50	13	T	AE	2p7207.13R	:\CP7\PESTDI7.MET	30	500	1	0	122000014A	10736
14	6721499ACF DF100	14	T	AD	2p7207.14R	:\CP7\PESTDI7.MET	30.3	1000	1	0	121990024A	10736
15	6721499ACF DF200	15	T	AE	2p7207.15R	:\CP7\PESTDI7.MET	30.3	2000	1	0	121990024A	10736
16	CONDITIONER	16	MISC	AA	2p7207.16R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
17	CONDITIONER	17	MISC	AA	2p7207.17R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
18	CONDITIONER	18	MISC	AA	2p7207.18R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
19	AR1631224B	19	CCAL	YQ	2p7207.19R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
20	IBLKX1224C	20	PIBLK	QH	2p7207.20R	:\CP7\PESTDI7.MET	1000	10	1	0	1220799999	
21	6722522 RI ACF DF100	21	T	AD	2p7207.21R	:\CP7\PESTDI7.MET	30	1000	1	0	122000014A	10736
22	CONDITIONER	22	MISC	AA	2p7207.22R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
23	6722530 RI ACF DF100	23	T	AE	2p7207.23R	:\CP7\PESTDI7.MET	30	100000	1	0	122000014A	10736
24	CONDITIONER	24	MISC	AA	2p7207.24R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
25	6722532 RI ACF DF10	25	T	AC	2p7207.25R	:\CP7\PESTDI7.MET	30	100	1	0	122000014A	10736
26	6722533 RI ACF DF5	26	T	AC	2p7207.26R	:\CP7\PESTDI7.MET	30	50	1	0	122000014A	10736
27	6722534 RI ACF DF5	27	T	AC	2p7207.27R	:\CP7\PESTDI7.MET	30	50	1	0	122000014A	10736
28	CONDITIONER	28	MISC	AA	2p7207.28R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
29	6722539 RI ACF DF5	29	T	AC	2p7207.29R	:\CP7\PESTDI7.MET	30	50	1	0	122000014A	10736
30	6722529 RI ACF	30	T	AB	2p7207.30R	:\CP7\PESTDI7.MET	30	10	1	0	122000014A	10736
31	6722521 RI ACF DF100	31	T	AD	2p7207.31R	:\CP7\PESTDI7.MET	30	1000	1	0	122000014A	10736
32	CONDITIONER	32	MISC	AA	2p7207.32R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
33	CONDITIONER	33	MISC	AA	2p7207.33R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
34	CONDITIONER	34	MISC	AA	2p7207.34R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
35	CONDITIONER	35	MISC	AA	2p7207.35R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
36	AR1631224B	36	CCAL	YO	2p7207.36R	:\CP7\PESTDI7.MET	1	1	1	0	1220799999	
37	IBLKX1224C	37	PIBLK	QF	2p7207.37R	:\CP7\PESTDI7.MET	1000	10	1	0	1220799999	

Set-up by: [signature] Date: 27 July 12

7/26/2012

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\chromperfect-data\Dept-24\Active\CP20\1p20205.seq

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Method Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 30

	Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	1	MISC	AA	1p20205.01R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
2	CONDITIONER	2	MISC	AA	1p20205.02R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
3	CONDITIONER	3	MISC	AA	1p20205.03R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
4	CONDITIONER	4	MISC	AA	1p20205.04R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
5	BLKX1224C	5	PIBLK	AA	1p20205.05R	:P20\PESTDI20.MET	1000	10	1	0	1220399999	
6	AR1611224B	6	ICAL	AA	1p20205.06R	:P20\PESTDI20.MET	1	1	1	1	1220399999	
7	AR1621224B	7	ICAL	AA	1p20205.07R	:P20\PESTDI20.MET	1	1	1	2	1220399999	
8	AR1631224B	8	ICAL	AA	1p20205.08R	:P20\PESTDI20.MET	1	1	1	3	1220399999	
9	AR1641224B	9	ICAL	AA	1p20205.09R	:P20\PESTDI20.MET	1	1	1	4	1220399999	
10	AR1651224B	10	ICAL	AA	1p20205.10R	:P20\PESTDI20.MET	1	1	1	5	1220399999	
11	AR4811224A	11	ICAL	AA	1p20205.11R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
12	AR4821224A	12	ICAL	AA	1p20205.12R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
13	AR4831224A	13	ICAL	AA	1p20205.13R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
14	AR4841224A	14	ICAL	AA	1p20205.14R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
15	AR4851224A	15	ICAL	AA	1p20205.15R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
16	AR5411224A	16	ICAL	AA	1p20205.16R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
17	AR5421224A	17	ICAL	AA	1p20205.17R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
18	AR5431224A	18	ICAL	AA	1p20205.18R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
19	AR5441224A	19	ICAL	AA	1p20205.19R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
20	AR5451224A	20	ICAL	AA	1p20205.20R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
21	AR6231224B	21	ICAL	AA	1p20205.21R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
22	AR6831224B	22	ICAL	AA	1p20205.22R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
23	AR2131224A	23	ICAL	AA	1p20205.23R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
24	AR32X1224B	24	ICAL	AA	1p20205.24R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
25	AR4231224A	25	ICAL	AA	1p20205.25R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
26	AR16XX1224B	26	ICAL	AA	1p20205.26R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
27	MD16X1224B	27	ICAL	AA	1p20205.27R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
28	IC16X1224B	28	CCAL	AA	1p20205.28R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
29	IC48X1224A	29	CCAL	AA	1p20205.29R	:P20\PESTDI20.MET	1	1	1	0	1220399999	
30	IC54X1224A	30	CCAL	AA	1p20205.30R	:P20\PESTDI20.MET	1	1	1	0	1220399999	

Set-up by: 2855 Date: 23 July 12

7/22/2012

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\chromperfect-data\Dept-24\Active\CP20\3P20205.seq

Chromatography Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Method Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 103

	Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	1	MISC	AA	3P20205.01R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
2	CONDITIONER	2	MISC	AA	3P20205.02R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
3	CONDITIONER	3	MISC	AA	3P20205.03R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
4	CONDITIONER	4	MISC	AA	3P20205.04R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
5	AR1631224B	5	CCAL	XL	3P20205.05R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
6	IBLKX1224C	6	PIBLK	PF	3P20205.06R	:P20\PESTDI20.MET	1000	10	1	0	1220599999	
7	6722521ACF DF100	7	T	AD	3P20205.07R	:P20\PESTDI20.MET	30	1000	1	0	122000014A	10736
8	6722522ACF DF100	8	T	AD	3P20205.08R	:P20\PESTDI20.MET	30	1000	1	0	122000014A	10736
9	6721496ACF DF25	9	T	AD	3P20205.09R	:P20\PESTDI20.MET	30.5	250	1	0	121990024A	10736
10	6721499ACF DF1000	10	T	AG	3P20205.10R	:P20\PESTDI20.MET	30.3	10000	1	0	121990024A	10736
11	6721499ACF DF2000	11	T	AH	3P20205.11R	:P20\PESTDI20.MET	30.3	20000	1	0	121990024A	10736
12	AR1631224B	12	CCAL	XM	3P20205.12R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
13	IBLKX1224C	13	PIBLK	PG	3P20205.13R	:P20\PESTDI20.MET	1000	10	1	0	1220599999	
14	BLANKA 7/22/12ACF	14	BLK	AB	3P20205.14R	:P20\PESTDI20.MET	30	10	1	0	122030006A	10736
15	LCSA 7/22/12ACF	15	LCS	AB	3P20205.15R	:P20\PESTDI20.MET	30	10	1	0	122030006A	10736
16	6727598ACF	16	T	AB	3P20205.16R	:P20\PESTDI20.MET	30.1	10	1	0	122030006A	10736
17	6727598MSACF	17	MS	AB	3P20205.17R	:P20\PESTDI20.MET	30	10	1	0	122030006A	10736
18	6727598MSDACF	18	MSD	AB	3P20205.18R	:P20\PESTDI20.MET	30.1	10	1	0	122030006A	10736
19	6727599ACF	19	T	AB	3P20205.19R	:P20\PESTDI20.MET	30.4	10	1	0	122030006A	10736
20	6727600ACF	20	T	AB	3P20205.20R	:P20\PESTDI20.MET	30.1	10	1	0	122030006A	10736
21	6727601ACF	21	T	AB	3P20205.21R	:P20\PESTDI20.MET	30.2	10	1	0	122030006A	10736
22	6727602ACF	22	T	AB	3P20205.22R	:P20\PESTDI20.MET	30.2	10	1	0	122030006A	10736
23	6727603ACF	23	T	AB	3P20205.23R	:P20\PESTDI20.MET	30.4	10	1	0	122030006A	10736
24	6727604ACF	24	T	AB	3P20205.24R	:P20\PESTDI20.MET	30.2	10	1	0	122030006A	10736
25	6727605ACF	25	T	AB	3P20205.25R	:P20\PESTDI20.MET	30.4	10	1	0	122030006A	10736
26	6727606ACF	26	T	AB	3P20205.26R	:P20\PESTDI20.MET	30.2	10	1	0	122030006A	10736
27	6727607ACF	27	T	AB	3P20205.27R	:P20\PESTDI20.MET	30.5	10	1	0	122030006A	10736
28	6727608ACF	28	T	AB	3P20205.28R	:P20\PESTDI20.MET	30.4	10	1	0	122030006A	10736
29	6727609ACF	29	T	AB	3P20205.29R	:P20\PESTDI20.MET	30.4	10	1	0	122030006A	10736
30	6727610ACF	30	T	AB	3P20205.30R	:P20\PESTDI20.MET	30.1	10	1	0	122030006A	10736
31	6727611ACF	31	T	AB	3P20205.31R	:P20\PESTDI20.MET	30.2	10	1	0	122030006A	10736
32	6727612ACF	32	T	AB	3P20205.32R	:P20\PESTDI20.MET	30.1	10	1	0	122030006A	10736
33	6727613ACF	33	T	AB	3P20205.33R	:P20\PESTDI20.MET	30.2	10	1	0	122030006A	10736
34	AR1631224B	34	CCAL	XN	3P20205.34R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
35	IBLKX1224C	35	PIBLK	PH	3P20205.35R	:P20\PESTDI20.MET	1000	10	1	0	1220599999	
36	6727614ACF	36	T	AB	3P20205.36R	:P20\PESTDI20.MET	30.1	10	1	0	122030006A	10736
37	6727615ACF	37	T	AB	3P20205.37R	:P20\PESTDI20.MET	30.1	10	1	0	122030006A	10736
38	6727616ACF	38	T	AB	3P20205.38R	:P20\PESTDI20.MET	30	10	1	0	122030006A	10736
39	6727617ACF	39	T	AB	3P20205.39R	:P20\PESTDI20.MET	30.1	10	1	0	122030006A	10736
40	AR1631224B	40	CCAL	XO	3P20205.40R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
41	IBLKX1224C	41	PIBLK	PI	3P20205.41R	:P20\PESTDI20.MET	1000	10	1	0	1220599999	
42	BLANKA 7/23/12ACF	42	BLK	AB	3P20205.42R	:P20\PESTDI20.MET	30	10	1	0	122050009A	10736
43	LCSA 7/23/12ACF	43	LCS	AB	3P20205.43R	:P20\PESTDI20.MET	30	10	1	0	122050009A	10736
44	6727618ACF	44	T	AB	3P20205.44R	:P20\PESTDI20.MET	30.2	10	1	0	122050009A	10736
45	6727619ACF	45	T	AB	3P20205.45R	:P20\PESTDI20.MET	30.2	10	1	0	122050009A	10736
46	6727620ACF	46	T	AB	3P20205.46R	:P20\PESTDI20.MET	30.1	10	1	0	122050009A	10736
47	6727621ACF	47	T	AB	3P20205.47R	:P20\PESTDI20.MET	30	10	1	0	122050009A	10736
48	6727622ACF	48	T	AB	3P20205.48R	:P20\PESTDI20.MET	30.1	10	1	0	122050009A	10736
49	AR1631224B	49	CCAL	XP	3P20205.49R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
50	IBLKX1224C	50	PIBLK	PJ	3P20205.50R	:P20\PESTDI20.MET	1000	10	1	0	1220599999	

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CHROM PERFECT SEQUENCE FILE

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Method Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 103

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51	6726926ACF DF5	51	T	AC	3P20205.51R	:P20\PESTDI20.MET	30.3	50	1	0	122050009A	10736
52	6726927ACF	52	T	AB	3P20205.52R	:P20\PESTDI20.MET	30.2	10	1	0	122050009A	10736
53	6726928ACF	53	T	AB	3P20205.53R	:P20\PESTDI20.MET	30.1	10	1	0	122050009A	10736
54	6726929ACF	54	T	AB	3P20205.54R	:P20\PESTDI20.MET	30.3	10	1	0	122050009A	10736
55	6726930MSACF	55	MS	AB	3P20205.55R	:P20\PESTDI20.MET	30	10	1	0	122050009A	10736
56	6726931MSDACF	56	MSD	AB	3P20205.56R	:P20\PESTDI20.MET	30.4	10	1	0	122050009A	10736
57	6726933ACF	57	T	AB	3P20205.57R	:P20\PESTDI20.MET	30.1	10	1	0	122050009A	10736
58	6726934ACF	58	T	AB	3P20205.58R	:P20\PESTDI20.MET	30.3	10	1	0	122050009A	10736
59	6726935ACF DF5	59	T	AC	3P20205.59R	:P20\PESTDI20.MET	30.2	50	1	0	122050009A	10736
60	6726936ACF	60	T	AB	3P20205.60R	:P20\PESTDI20.MET	30.4	10	1	0	122050009A	10736
61	AR1631224B	61	CCAL	XQ	3P20205.61R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
62	IBLKX1224C	62	PIBLK	PK	3P20205.62R	:P20\PESTDI20.MET	1000	10	1	0	1220599999	
63	6726937ACF DF10	63	T	AC	3P20205.63R	:P20\PESTDI20.MET	30.3	100	1	0	122050009A	10736
64	6726938ACF DF100	64	T	AC	3P20205.64R	:P20\PESTDI20.MET	30.2	1000	1	0	122050009A	10736
65	6726939ACF DF100	65	T	AC	3P20205.65R	:P20\PESTDI20.MET	30.3	1000	1	0	122050009A	10736
66	6726940ACF	66	T	AB	3P20205.66R	:P20\PESTDI20.MET	30.5	10	1	0	122050009A	10736
67	6728505ACF	67	T	AB	3P20205.67R	:P20\PESTDI20.MET	3.2	10	1	0	122050009A	10736
68	MS1218124	68	T	AA	3P20205.68R	:P20\PESTDI20.MET	1	10	1	0	122050009A	10736
69	AR1631224B	69	CCAL	XR	3P20205.69R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
70	IBLKX1224C	70	PIBLK	PL	3P20205.70R	:P20\PESTDI20.MET	1000	10	1	0	1220599999	
71	BLANKA 7/23/12ACF	71	BLK	AB	3P20205.71R	:P20\PESTDI20.MET	30	10	1	0	122050010A	10736
72	LCSA 7/23/12ACF	72	LCS	AB	3P20205.72R	:P20\PESTDI20.MET	30	10	1	0	122050010A	10736
73	6727930ACF	73	T	AB	3P20205.73R	:P20\PESTDI20.MET	30.4	10	1	0	122050010A	10736
74	6727931ACF	74	T	AB	3P20205.74R	:P20\PESTDI20.MET	30.3	10	1	0	122050010A	10736
75	6727932ACF	75	T	AB	3P20205.75R	:P20\PESTDI20.MET	30.3	10	1	0	122050010A	10736
76	6727933ACF	76	T	AB	3P20205.76R	:P20\PESTDI20.MET	30.4	10	1	0	122050010A	10736
77	6727933ACF DF5	77	T	AC	3P20205.77R	:P20\PESTDI20.MET	30.4	50	1	0	122050010A	10736
78	6728412ACF	78	T	AB	3P20205.78R	:P20\PESTDI20.MET	30.5	10	1	0	122050010A	10736
79	6728427ACF	79	T	AB	3P20205.79R	:P20\PESTDI20.MET	30.1	10	1	0	122050010A	10736
80	6728427ACF DF5	80	T	AC	3P20205.80R	:P20\PESTDI20.MET	30.1	50	1	0	122050010A	10736
81	AR1631224B	81	CCAL	XS	3P20205.81R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
82	IBLKX1224C	82	PIBLK	PM	3P20205.82R	:P20\PESTDI20.MET	1000	10	1	0	1220599999	
83	6728521ACF DF200	83	T	AC	3P20205.83R	:P20\PESTDI20.MET	30.1	2000	1	0	122050010A	10736
84	6728522ACF	84	T	AB	3P20205.84R	:P20\PESTDI20.MET	30.5	10	1	0	122050010A	10736
85	6728523ACF	85	T	AB	3P20205.85R	:P20\PESTDI20.MET	30	10	1	0	122050010A	10736
86	6728527ACF DF500	86	T	AD	3P20205.86R	:P20\PESTDI20.MET	30.2	5000	1	0	122050010A	10736
87	6728528ACF DF10	87	T	AC	3P20205.87R	:P20\PESTDI20.MET	30.3	100	1	0	122050010A	10736
88	6728529MSACF DF10	88	MS	AC	3P20205.88R	:P20\PESTDI20.MET	30.2	100	1	0	122050010A	10736
89	6728530MSDACF DF10	89	MSD	AC	3P20205.89R	:P20\PESTDI20.MET	30.3	100	1	0	122050010A	10736
90	6728532ACF DF10	90	T	AC	3P20205.90R	:P20\PESTDI20.MET	30.2	100	1	0	122050010A	10736
91	CONDITIONER	91	MISC	AA	3P20205.91R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
92	AR1631224B	92	CCAL	XT	3P20205.92R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
93	IBLKX1224C	93	PIBLK	PN	3P20205.93R	:P20\PESTDI20.MET	1000	10	1	0	1220599999	
94	6728535ACF DF500	94	T	AD	3P20205.94R	:P20\PESTDI20.MET	30.3	5000	1	0	122050010A	10736
95	6728536ACF	95	T	AB	3P20205.95R	:P20\PESTDI20.MET	30.3	10	1	0	122050010A	10736
96	6728537ACF DF10	96	T	AC	3P20205.96R	:P20\PESTDI20.MET	30.1	100	1	0	122050010A	10736
97	6728539ACF DF10	97	T	AC	3P20205.97R	:P20\PESTDI20.MET	30.5	100	1	0	122050010A	10736
98	6728540ACF	98	T	AB	3P20205.98R	:P20\PESTDI20.MET	30.5	10	1	0	122050010A	10736
99	CONDITIONER	99	MISC	AA	3P20205.99R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
100	CONDITIONER	100	MISC	AA	3P20205.00R	:P20\PESTDI20.MET	1	1	1	0	1220599999	

ASX73 1244

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\chromperfect-data\Dept-24\Active\CP20\3P20205.seq

Chromatography Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Method Directory: \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20

Number of Entries: 103

	Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
101	CONDITIONER	101	MISC	AA	3P20205.01R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
102	AR1631224B	102	CCAL	XU	3P20205.02R	:P20\PESTDI20.MET	1	1	1	0	1220599999	
103	IBLKX1224C	103	PIBLK	PO	3P20205.03R	:P20\PESTDI20.MET	1000	10	1	0	1220599999	

Set-up by: JMP 2SA Date: 26 July 12

7/25/2012

ASX73 1245

LANCASTER LABORATORIES

Sample Number: IBLKX1224C AAPIBLKAA PIBLK1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 12:44:08 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0005.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.512		8436	5804
2.556		3813	2328
2.578		31986	23393
2.62		2301	726
2.631		2910	2085
2.664		52688	40729
2.693		12175	14963
2.806		3813	4057
2.869		3197	3453
2.933		6036	8491
2.971		1843	1020
3.014		402	131
3.034		1799	866
3.079		2842	4012
3.1		1810	1046
3.136		4629	3650
3.21		6391	11188
3.238		1940	1185
3.277		2024	579
3.307	TCX	5005538	3816872
3.378		4148	4688
3.408		3231	1467
3.471		2331	1626
3.513		90544	64466
3.537		4602	9574
3.595		5179	6743
3.651		18968	13052
3.674		4416	3202
3.828		1580	1178
3.845		8059	6136
3.884		2148	1611
3.909		19970	18598
3.951		2828	2664
3.984		17671	22283
4.081		17943	17914
4.178		6829	11909
4.26		8625	11802
4.337		10286	36525
4.415		2141	1358
4.483		1906	1014
4.514		2096	831
4.557		3346	4972
4.594		2897	2966
4.618		7556	11957
4.671		13993	25500
4.721		35795	90249
4.787		20084	49588
4.853		3400	5273
4.903		2459	2591
5.052		4174	10719
5.139		2173	475
5.15		3328	2102
5.269		2601	5143
5.301		1169	726

ASX73 1246

LANCASTER LABORATORIES

Sample Number: IBLKX1224C AAPIBLKAA PIBLK1218999999 Injection VolumeSW846 8082
Injected On: 7/8/2012 4:39:13 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.005.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.532		3566	17947
1.757		1994	14848
1.973		3776	34175
2.164		5270	55655
2.426		4413	33344
2.709		1465	17757
2.924		1157	1983
3.009		990	1797
3.226		817	6959
3.333		427	798
3.49		379	920
3.635		4956	19284
3.752		397	1305
3.855	TCX	230093	486248
4.131		3604	8525
4.283		653	3965
4.642		1874	9594
4.755		626	2743
5.052		3370	29318
5.211		1072	7466
5.38		148	372
5.535		1618	3699
5.601		2019	8534
5.842		491	5449
6.092		728	6139
6.145		1005	2721
6.388		2661	10516
6.565		1154	13356
6.638		669	1335
6.934		1587	11487
7.02		276	940
7.186		2884	9307
7.306		850	7206
7.624		1022	3662
7.683		895	1499
7.803		812	7656
7.994		5603	16141
8.142		3616	25764
8.355		345	6591
8.737		1411	22275
8.898		1308	5978
9.26	DCB	126423	488196
9.663		756	12210
10.168		260	2535
10.605		406	3874

LANCASTER LABORATORIES

Sample Number: IBLKX1224C AAPIBLKAA PIBLK1218999999
Injected On: 7/8/2012 4:39:13 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.005.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

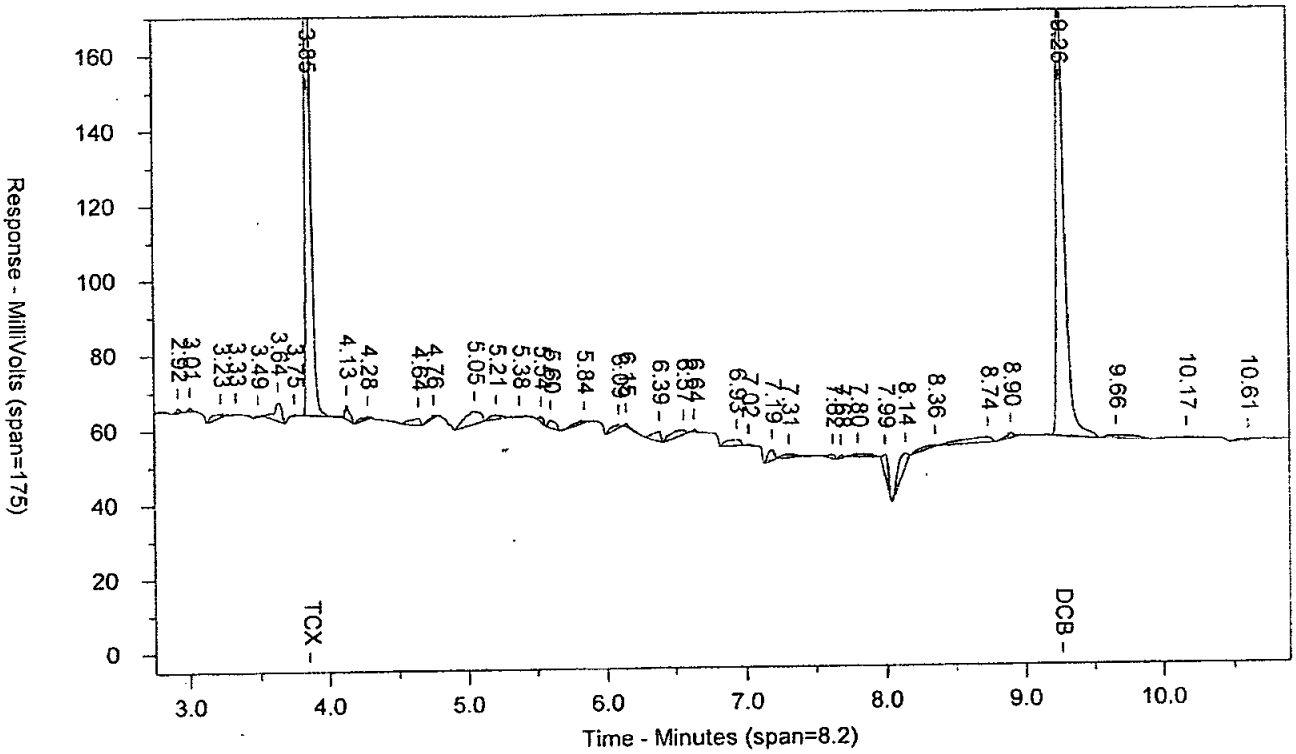
Injection Volume: 1 SW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.585		20045	212301
3.402		443	1465
3.561		1268	3681
3.693	TCX	77576	153417
3.993		819	1872
4.224		370	876
4.463		263	1108
4.603		451	748
4.836		271	824
4.978		1081	3238
5.177		225	1372
5.343		1556	5467
5.702		1399	3821
5.966		335	1271
6.056		1380	3589
6.403		1729	5364
6.74		2559	10764
6.905		420	2276
7.074		1632	6017
7.442		1659	5897
7.64		631	2062
7.832		1430	5565
8.317		827	1968
8.713	DCB	78583	218119
8.906		912	3149
9.661		793	4106
10.634		956	12350

ASX73 1249

IBLKX1224C AAPIBLKAA PIBLK1218999999 SW-846 8082

\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190.005.RAW



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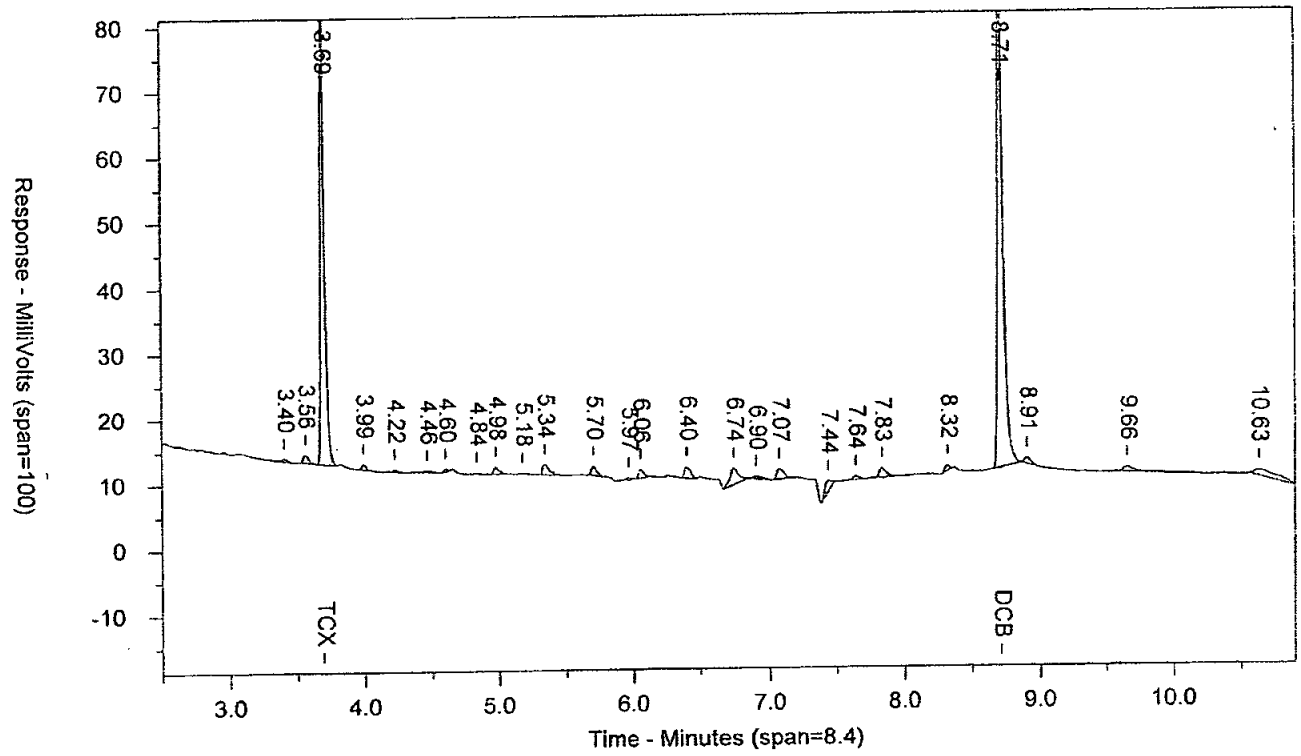

ASX73 1249

LANCASTER LABORATORIES

Sample Number: IBLKX1224C AAPIBLKAA PIBLK1218999999
Injected On: 7/8/2012 4:39:13 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 300846 8082
Dilution Factor: 10

Threshold: 3
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
3.855	230093	.247	TCX	3.693	77576	.227	TCX
9.26	126423	.242	DCB	8.713	78583	.227	DCB

Files:
Area File: 1p7190.005.RAW
Area File: 1p7190B.005.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 4:50:08 PM
File Reported On: 7/8/2012 at 4:50:12 PM

WASX73 1259

IBLKX1224C AAPIBLKAA PIBLK1218999999 SW-846 8082

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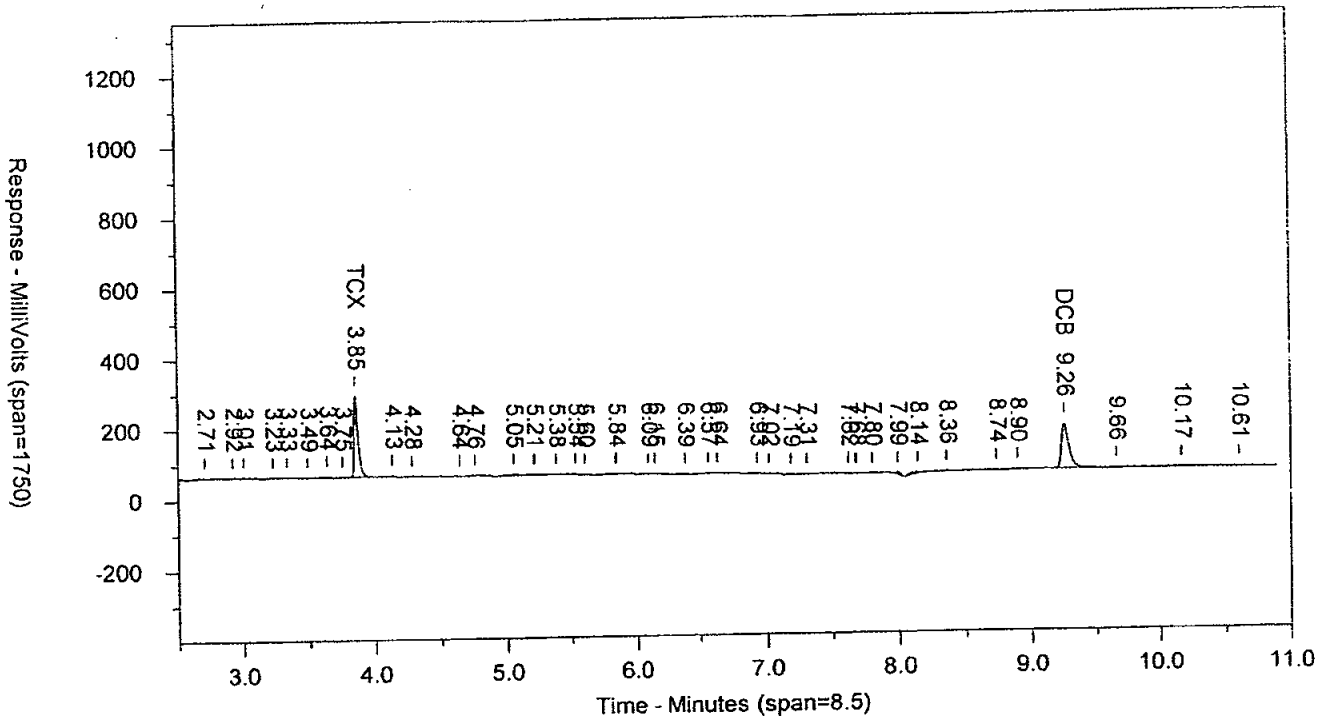

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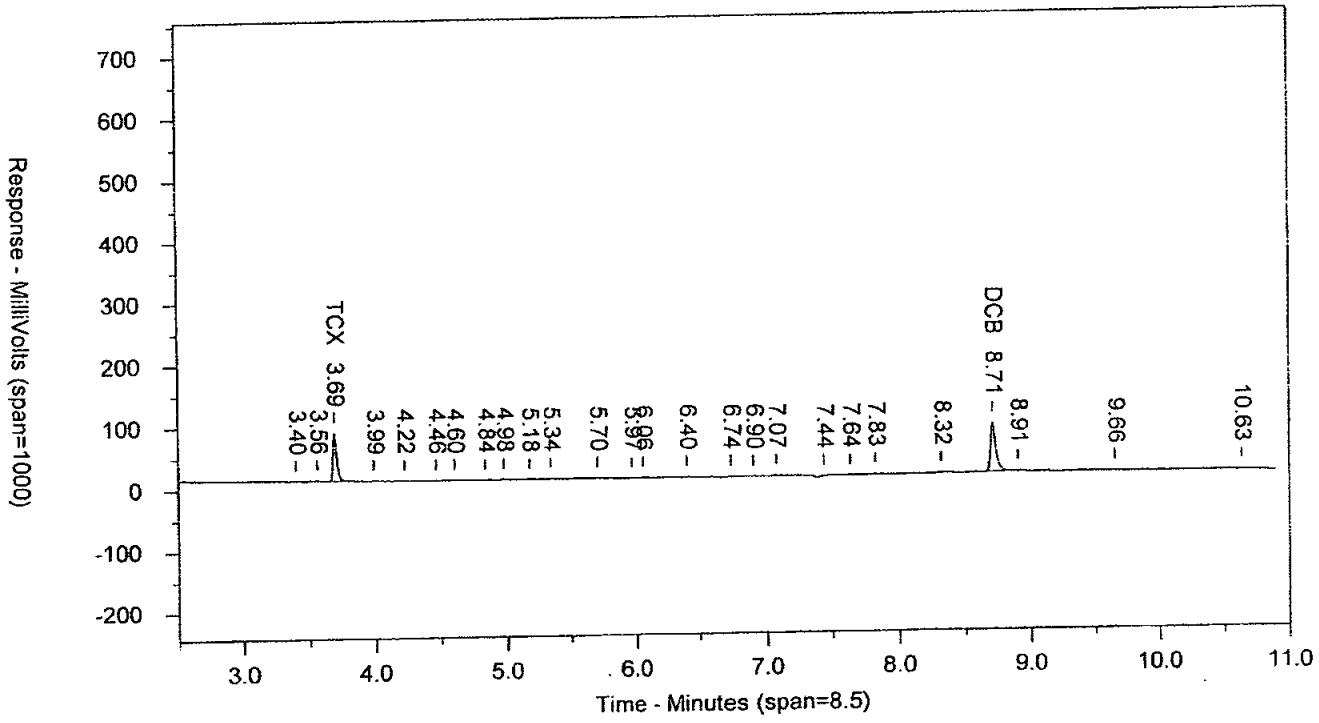

ASX73 1251

LANCASTER LABORATORIES

Sample Number: AR1611224B AAAR161AA ICAL 1218999999 Injection Volume SW846 8082
Injected On: 7/8/2012 4:53:59 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.006.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.885		412	1092
1.963		352	816
2.055		442	907
2.157		962	7644
2.319		660	2556
2.711		3491	13443
2.927		345	838
3.011		1669	5042
3.333		395	717
3.485		1186	2438
3.553		184	476
3.638		3720	12617
3.755		319	955
3.857	TCX	55442	110122
4.059		2119	4305
4.138		2770	4757
4.206		13034	26384
4.338		1454	3591
4.506		5769	7227
4.525		2872	3613
4.627		533	542
4.67		14609	29593
4.778		285	410
4.825		4320	12067
4.925		26385	56071
4.979		11097	18638
5.062		12123	22150
5.154		6097	7726
5.193		6669	19114
5.326		10710	27523
5.396		1667	1642
5.445		9332	16634
5.496		1295	1754
5.603		1026	1392
5.653		9605	27665
5.8		874	1299
5.853		10330	28759
6.031		416	821
6.112		3366	6840
6.167		3585	5422
6.228		8695	24167
6.318		20259	47904
6.422		2276	4101
6.492		3198	5437
6.554		24538	75980
6.66		8131	16871
6.753		1069	1214
6.796		25487	54678
6.871		10455	16155
6.919		5275	8398
7.068		15292	37031
7.141		5414	8636
7.188		2174	3154

RT A	Compound A	Height A	Area A
7.301		4300	7917
7.378		33462	89027
7.685		17528	34559
7.767		4881	12212
7.998		1006	2558
8.15		4213	15076
8.345		949	4483
8.456		9101	23807
8.551		385	821
8.719		176	1062
8.9		3271	9338
9.264	DCB	32340	112498
10.054		75	319

ASX73 1253

LANCASTER LABORATORIES

Sample Number: AR1611224B AAAR161AA ICAL 1218999999 Injection Volume: 1 uSW-846 8082
Injected On: 7/8/2012 4:53:59 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.006.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.58		139524	1389264
2.645		935	2729
3.072		307	2334
3.564		1241	3669
3.695	TCX	15158	32714
3.918		664	1366
4.003		931	1888
4.08		4415	9736
4.237		560	1249
4.378		7703	22599
4.548		5264	12423
4.663		1550	4598
4.77		11782	24118
4.824		3764	6829
4.934		3558	5233
4.979		1646	1943
5.013		3138	7105
5.172		4170	9057
5.305		3669	7248
5.365		867	1371
5.492		5508	14280
5.629		4307	10824
5.909		709	1207
6.003		6700	23603
6.11		10476	22724
6.228		1697	2931
6.283		12580	26821
6.417		10735	21573
6.529		1832	2391
6.577		6857	9345
6.608		3326	4227
6.657		2143	3015
6.786		1050	1890
6.846		7763	17182
6.934		3244	4882
7.072		19123	41995
7.35		3983	7275
7.417		13568	30876
7.643		779	3025
7.83		2488	7162
8.001		5183	13221
8.375		1886	5415
8.717	DCB	19620	56029
8.91		436	1447
9.691		420	2013

AR1611224B AAAR161AA ICAL 1218999999 SW-846 8082

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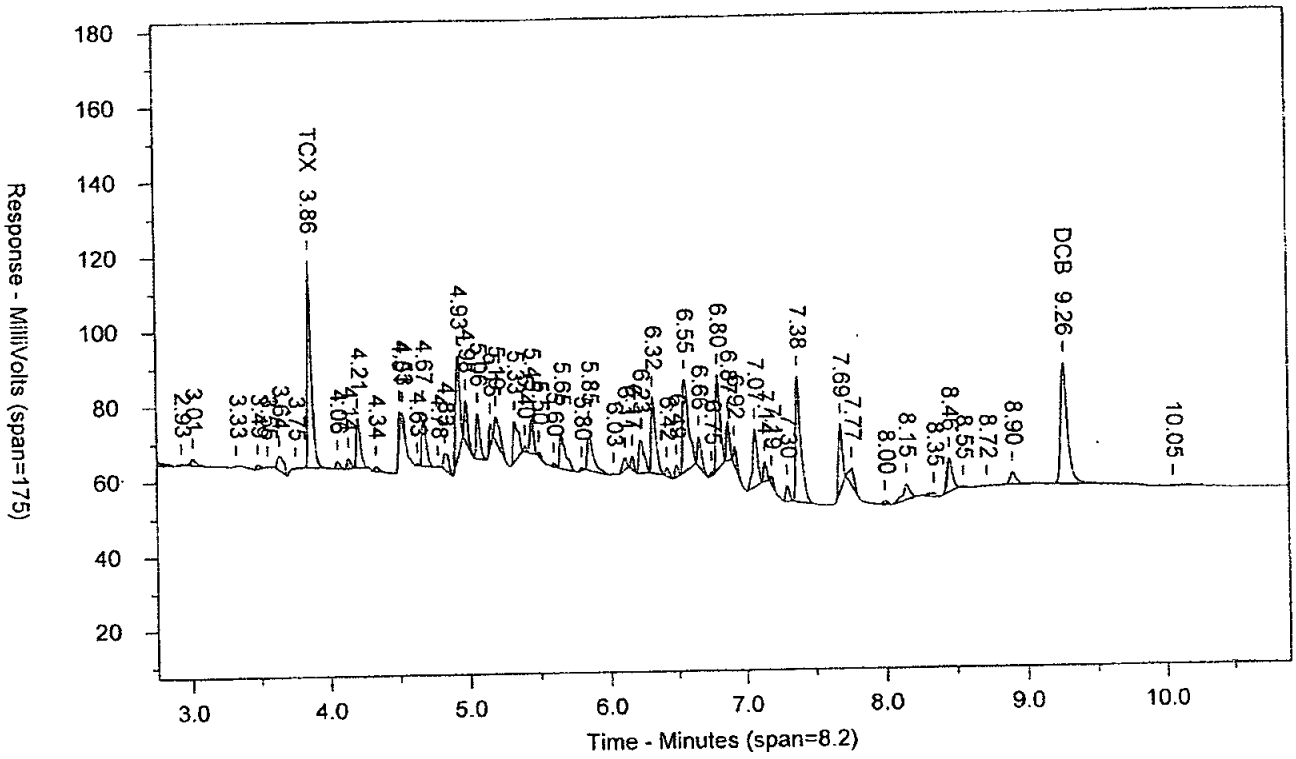

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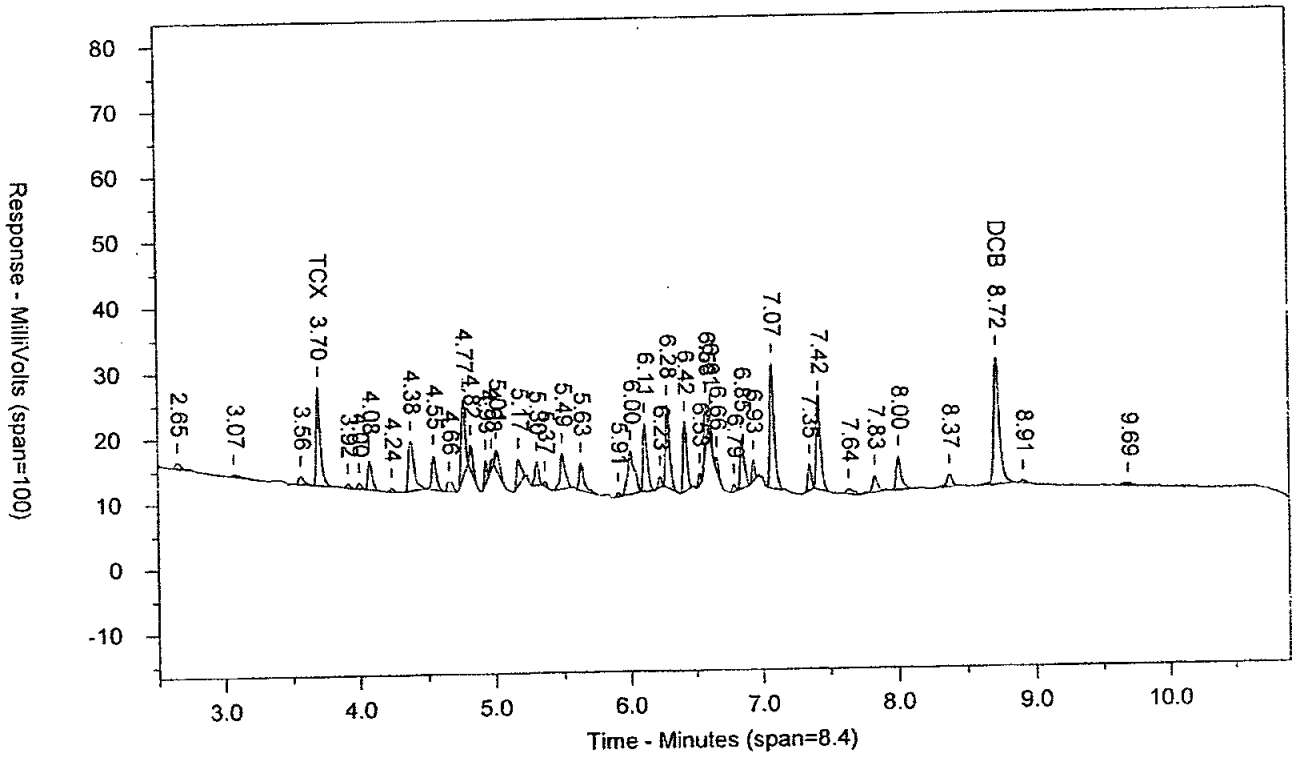

ASX73 1255

LANCASTER LABORATORIES

Sample Number: AR1611224B AAAR161AA ICAL 1218999999
Injected On: 7/8/2012 4:53:59 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.857	55442	5.958	TCX	3.695	15158	4.444	TCX
9.264	32340	6.186	DCB	8.717	19620	5.674	DCB

Files:
Area File: 1p7190.006.RAW
Area File: 1p7190B.006.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 5:04:53 PM
File Reported On: 7/8/2012 at 5:05:00 PM

ASX73 1256

AR1611224B AAAR161AA ICAL 1218999999 SW-846 8082

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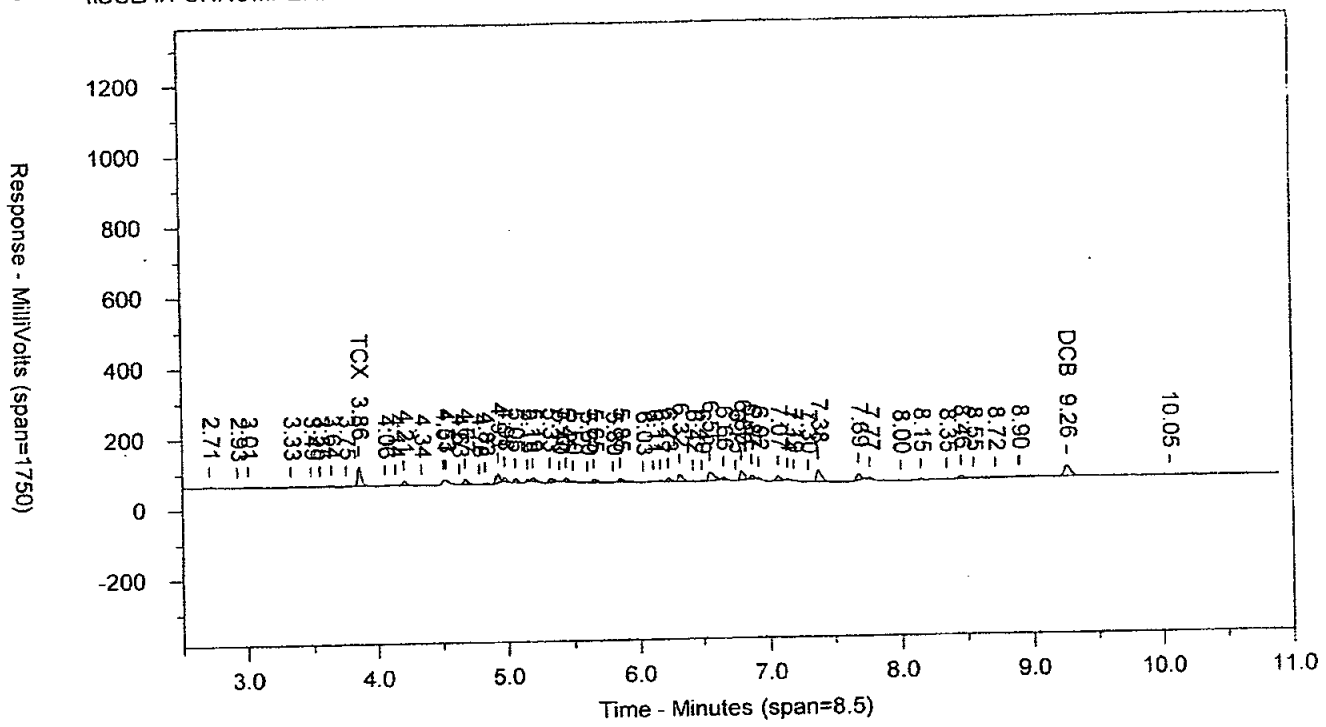

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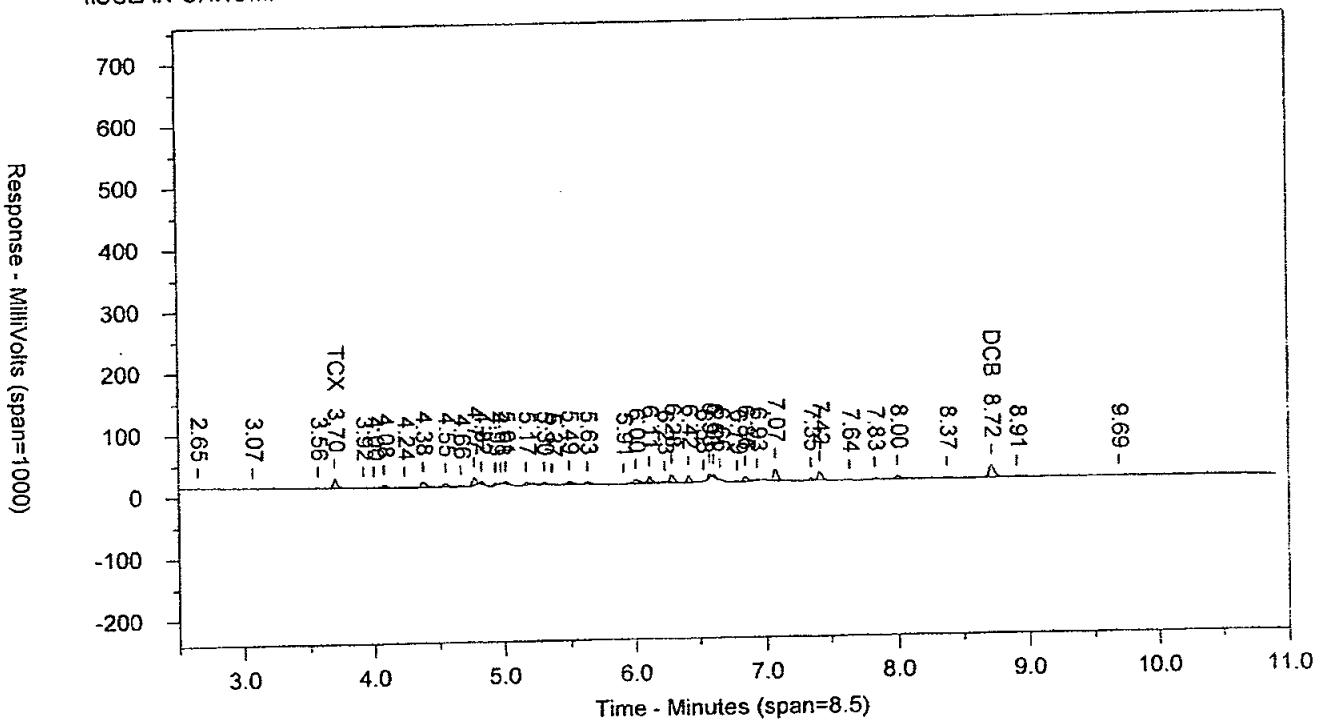

ASX73 1257

LANCASTER LABORATORIES

Sample Number: AR1621224B AAAR162AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 5:08:31 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.007.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.758		872	2151
1.964		339	836
2.059		276	476
2.174		774	5238
2.706		2254	5430
2.925		1249	2314
3.011		1220	2091
3.333		1033	5144
3.487		944	1917
3.551		615	1308
3.636		3158	10227
3.749		192	428
3.856	TCX	227398	482035
4.059		3879	7728
4.137		6893	12130
4.206		23613	51133
4.337		2744	5773
4.506		9415	12103
4.525		5878	7331
4.625		991	1014
4.67		26369	53702
4.826		7646	21328
4.925		48661	105571
4.978		19607	32652
5.062		22038	40859
5.154		10924	13979
5.193		11998	34875
5.325		19493	50578
5.396		3004	3006
5.445		16859	29902
5.496		2477	3301
5.654		19008	63473
5.798		1619	2400
5.853		18718	49770
6.03		689	1266
6.113		6358	13257
6.167		6951	10584
6.228		16387	46964
6.317		36206	86125
6.423		4230	7551
6.491		5721	9616
6.554		43268	138075
6.66		15104	31294
6.753		1942	2174
6.796		44720	97345
6.87		18405	28798
6.919		9706	15619
7.068		27917	68149
7.141		9799	15589
7.189		3954	5845
7.301		7971	15017
7.378		61586	167616
7.685		31783	63771

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ASX73 1258

RT A	Compound A	Height A	Area A
7.766		9078	23103
7.996		2011	4732
8.149		7605	24101
8.348		529	2119
8.455		16649	43116
8.55		668	1276
8.674		205	501
8.899		6741	20334
9.264	DCB	124433	484870
10.477		606	3735

ASX73 1259

LANCASTER LABORATORIES

Sample Number: AR1621224B AAAR162AA ICAL 1218999999
Injected On: 7/8/2012 5:08:31 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.007.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

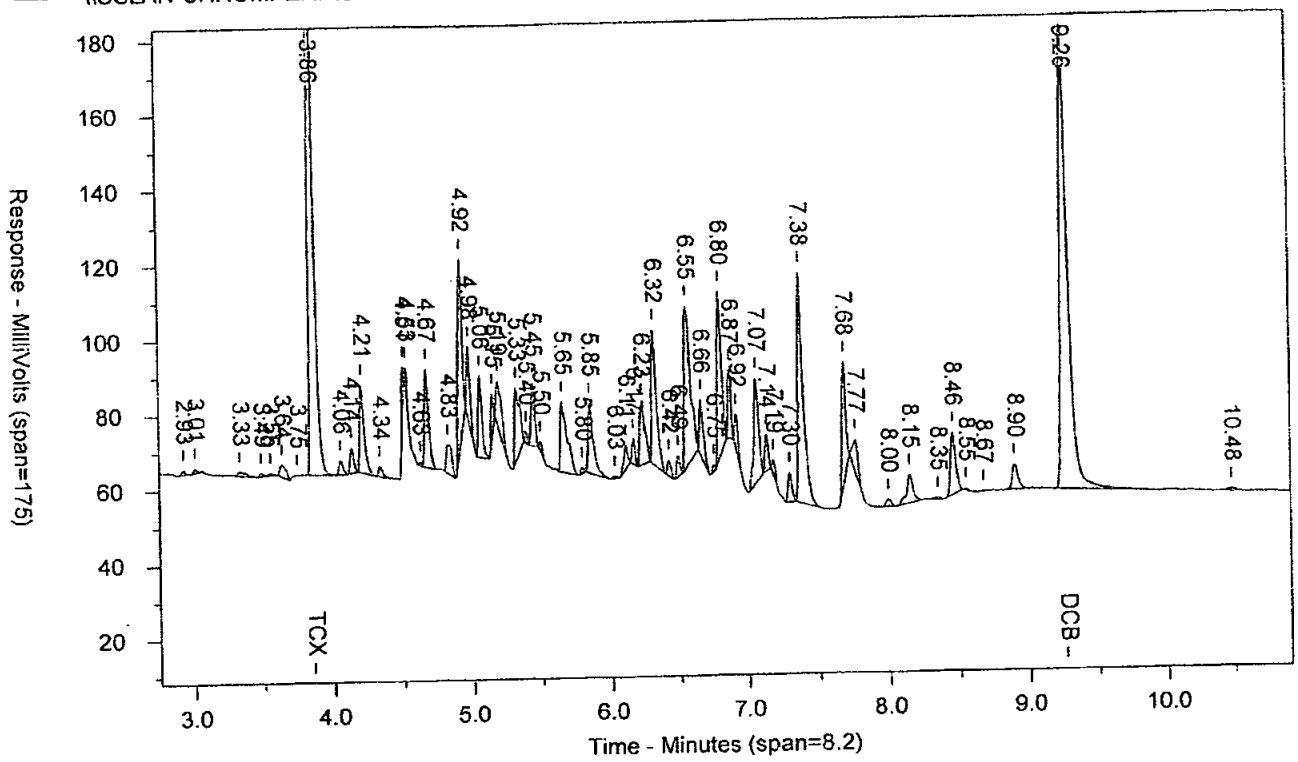
Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.585		130262	1347638
2.641		683	1718
3.408		411	2043
3.563		1103	3220
3.696	TCX	77305	155599
3.919		1283	2666
4.003		2172	4431
4.08		8260	18088
4.239		1034	2299
4.378		14162	41129
4.548		10015	23460
4.676		2858	8549
4.77		22506	45068
4.824		6919	12145
4.935		6804	9672
4.978		3046	3525
5.013		5752	13029
5.172		7861	16942
5.305		7016	13889
5.366		1588	2467
5.492		10283	26572
5.629		7657	15434
5.909		1347	2333
6.003		12214	43560
6.109		19011	40104
6.228		3263	5681
6.282		22955	48197
6.418		19946	39261
6.529		3412	4583
6.577		13008	17116
6.608		6169	7430
6.657		4263	6209
6.787		2122	3888
6.845		14626	31635
6.934		6154	9185
6.975		1570	5113
7.071		35470	76402
7.351		7181	12771
7.416		25505	55993
7.641		1129	2226
7.83		4273	10328
8		10028	27790
8.375		3835	10971
8.716	DCB	77662	219843
9.664		249	1758
10.633		512	9462

ASX73 1269

AR1621224B AAAR162AA ICAL 1218999999 SW-846 8082

\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190.007.RAW



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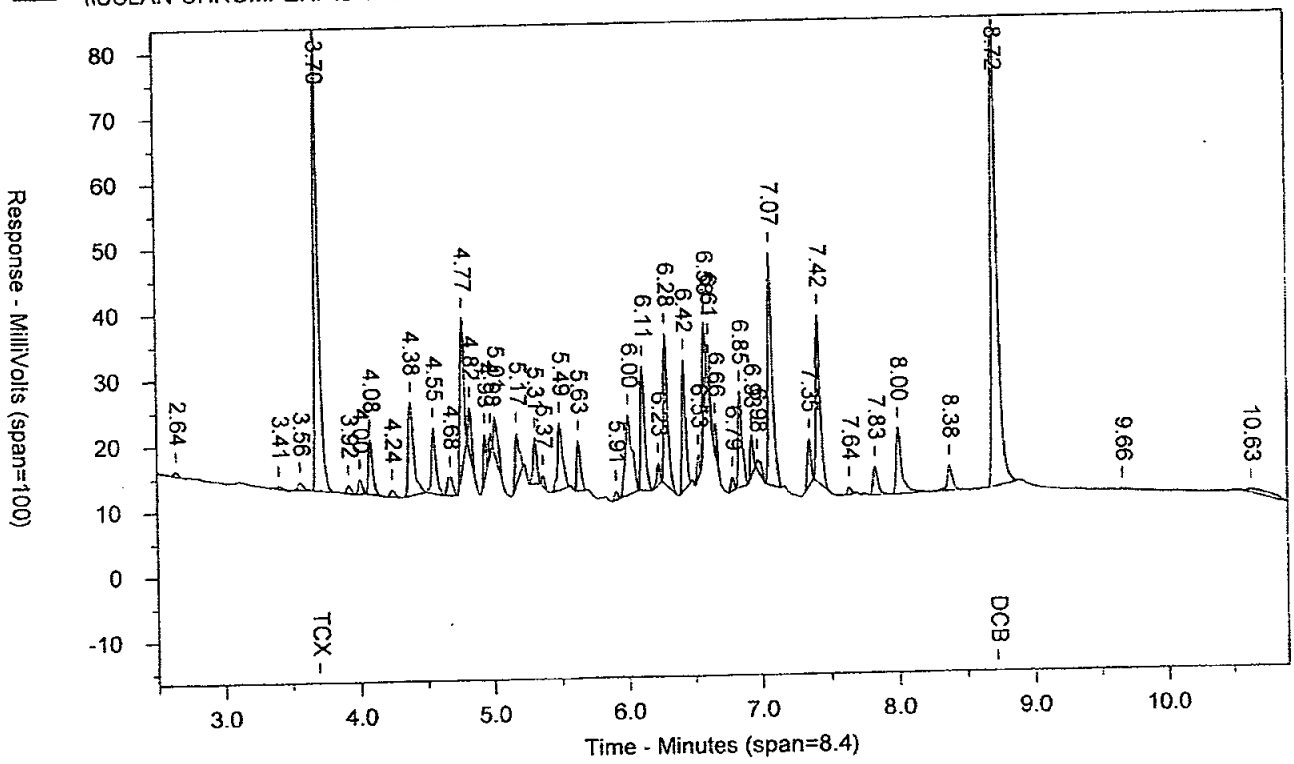

ASX73 1261

LANCASTER LABORATORIES

Sample Number: AR1621224B AAAR162AA ICAL 1218999999
Injected On: 7/8/2012 5:08:31 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.856	227398	23.313	TCX	3.696	77305	22.233	TCX
9.264	124433	22.668	DCB	8.716	77662	21.754	DCB

Files:
Area File: 1p7190.007.RAW
Area File: 1p7190B.007.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 5:19:26 PM
File Reported On: 7/8/2012 at 5:19:31 PM

AR1621224B AAAR162AA ICAL 1218999999 SW-846 8082

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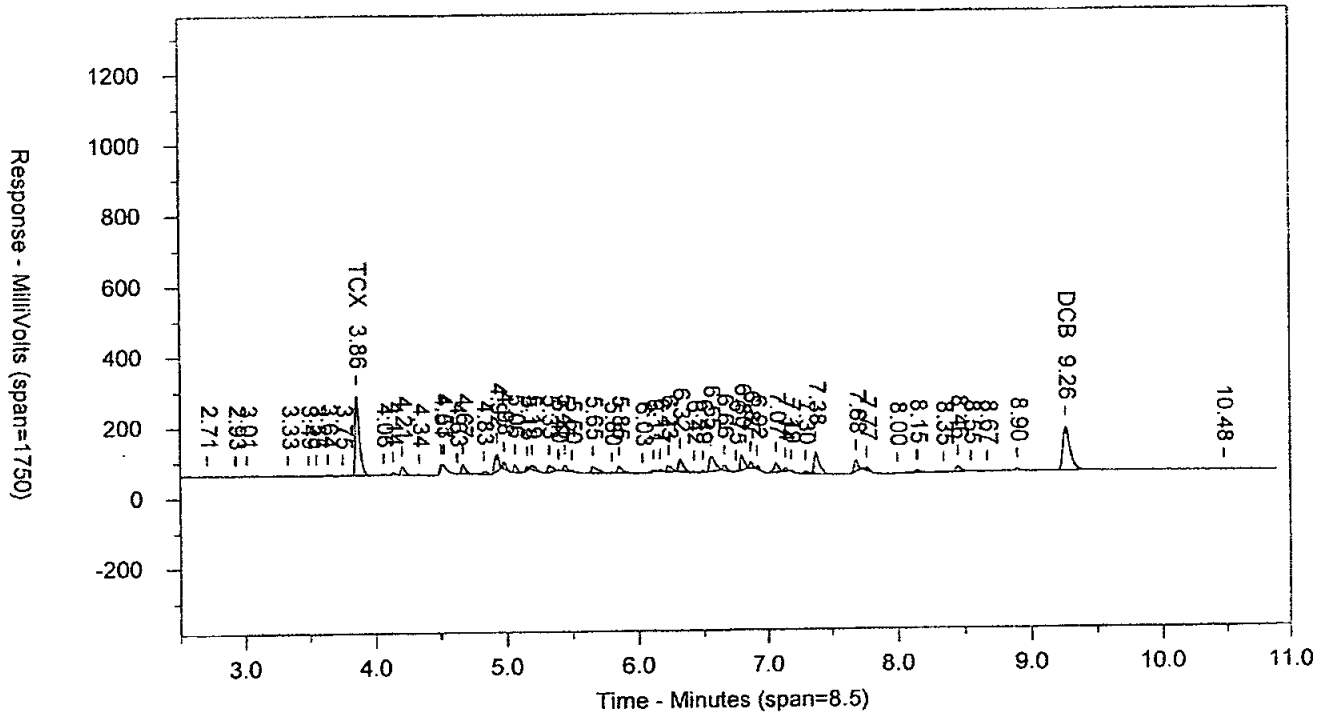

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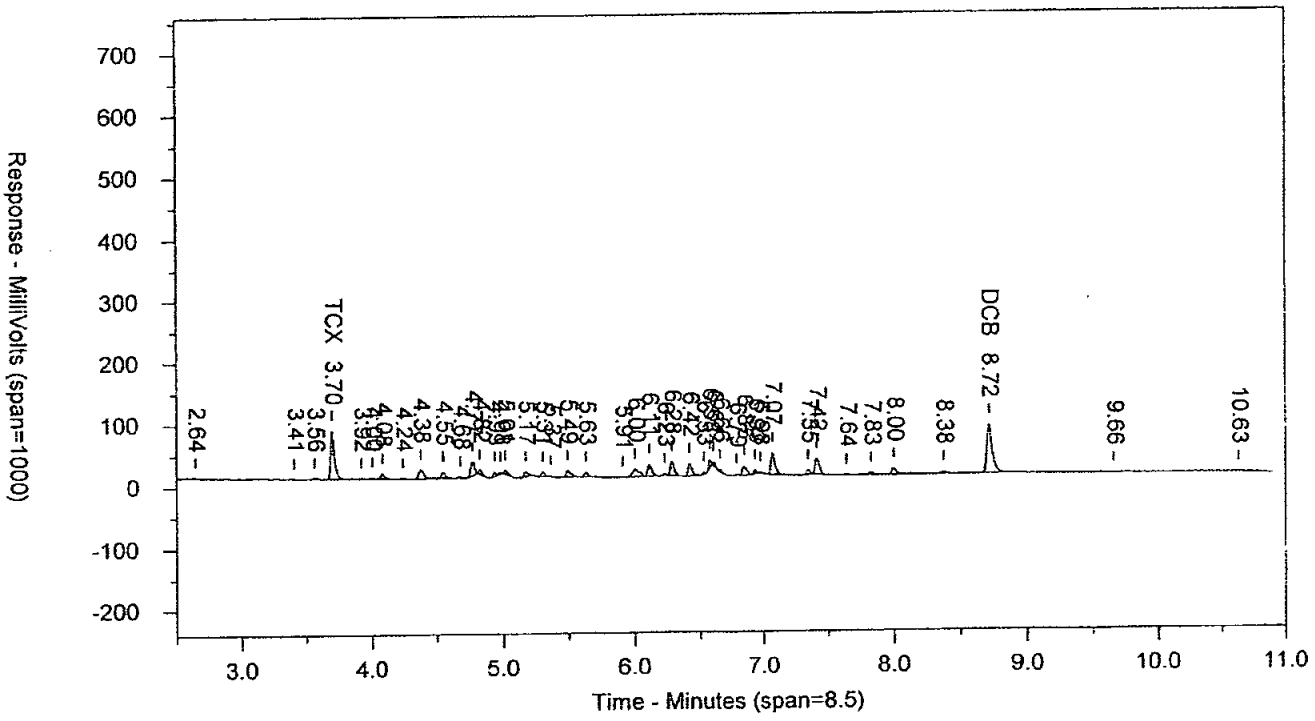

ASX73 1263

LANCASTER LABORATORIES

Sample Number: AR1631224B AAAR163AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 5:23:16 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.008.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.885		191	649
1.958		401	1240
2.054		434	785
2.126		814	4924
2.73		274	743
2.831		452	1691
2.923		2390	4060
3.009		2876	4877
3.06		554	736
3.358		1483	10447
3.554		1080	7146
3.636		8470	24371
3.854	TCX	421517	920419
4.057		7575	15038
4.135		13418	23648
4.204		43406	94620
4.336		5391	12281
4.505		17024	21549
4.523		10764	13419
4.623		1793	1791
4.669		48543	101995
4.839		13507	35761
4.923		88458	192182
4.976		34958	58429
5.06		41202	77244
5.152		19994	25684
5.192		21909	65420
5.323		36173	94181
5.394		5630	5663
5.443		31206	55477
5.494		5246	6798
5.606		986	1170
5.653		36209	126703
5.796		3159	4599
5.851		34469	90321
6.028		1226	2173
6.111		12377	26241
6.166		13273	20737
6.227		30936	87513
6.316		65451	157395
6.422		8165	14936
6.49		10476	17458
6.552		78217	251839
6.659		27677	58685
6.752		3663	4065
6.795		82407	178891
6.868		32389	50428
6.918		17680	29132
7.067		52860	135497
7.141		14622	22762
7.187		7827	11888
7.3		15303	28996
7.377		113736	320376

ASX73 1264

RT A	Compound A	Height A	Area A
7.683		59104	119487
7.765		16231	40621
7.993		9341	26332
8.147		19278	90789
8.348		333	1334
8.452		31553	82613
8.546		1137	2076
8.897		13016	44569
9.258	DCB	222195	901939
10.165		268	980
10.354		155	1095

ASX73 1265

LANCASTER LABORATORIES

Sample Number: AR1631224B AAAR163AA ICAL 1218999999
Injected On: 7/8/2012 5:23:16 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.008.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.586		119943	1243628
2.739		520	912
2.795		456	907
3.07		314	1760
3.408		519	2068
3.563		3513	10344
3.693	TCX	153623	305782
3.917		2553	5289
4.001		4292	8706
4.078		15644	34264
4.237		2024	4555
4.376		26663	75918
4.545		19227	44427
4.661		6061	17721
4.767		43429	85926
4.821		13685	23677
4.933		13409	18733
4.976		5822	6765
5.011		11098	25125
5.17		15202	32185
5.303		13776	27011
5.364		3120	4820
5.49		19529	49974
5.627		14500	28720
5.83		634	1174
5.908		2606	4345
6.001		23243	82465
6.107		35431	72795
6.227		6475	11334
6.28		42745	87117
6.415		38517	73621
6.482		1381	1489
6.528		6410	8409
6.575		25496	33063
6.605		10769	13134
6.653		6289	8205
6.786		4265	7747
6.844		27825	59921
6.933		11547	17050
6.973		3118	9208
7.07		67507	141300
7.348		16421	30322
7.415		44661	103506
7.639		2110	4071
7.701		718	994
7.828		7854	18400
7.998		19618	52146
8.372		7509	19180
8.71	DCB	142832	418660

ASX73 1266

AR1631224B AAAR163AA ICAL 1218999999 SW-846 8082

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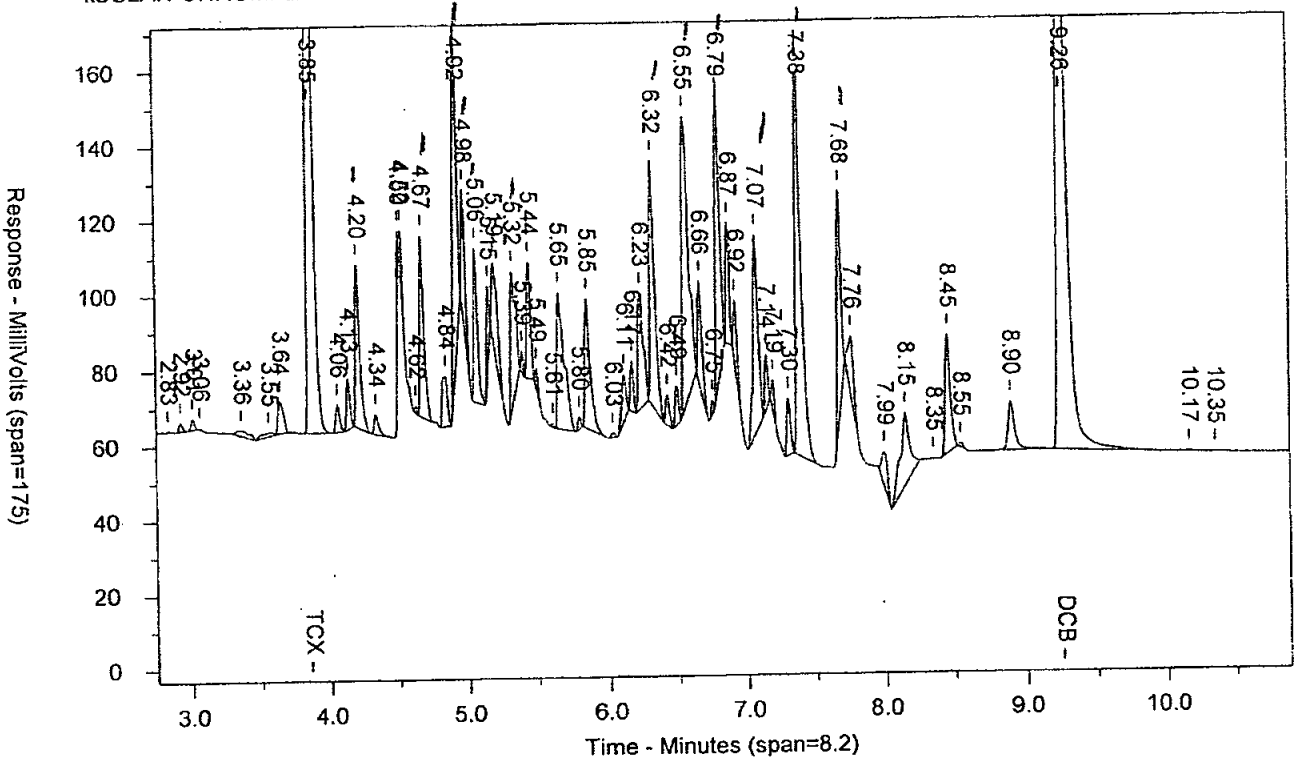

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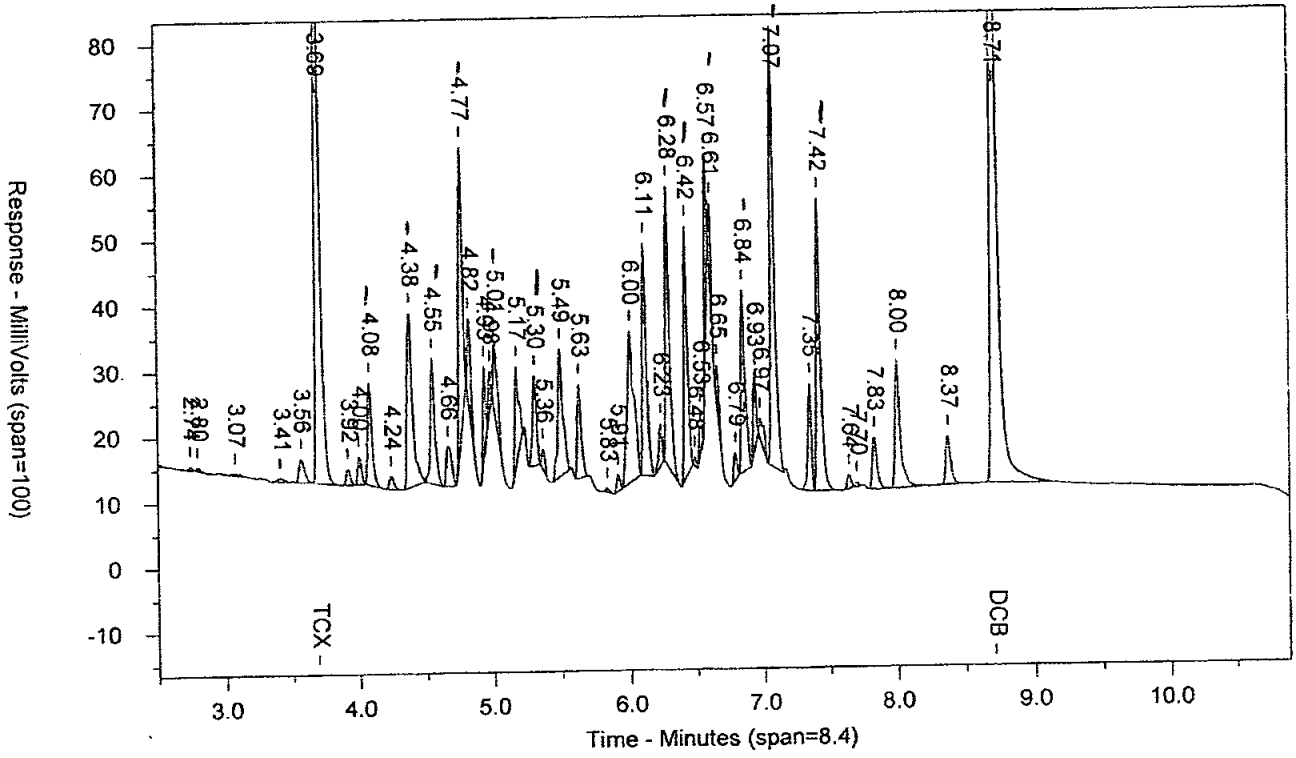

ASX73 1287

LANCASTER LABORATORIES

Sample Number: AR1631224B AAAR163AA ICAL 1218999999
Injected On: 7/8/2012 5:23:16 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: $W-846 8082
Dilution Factor: 1

Threshold: 3
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
3.854	421517	42.218	TCX	3.693	153623	43.638	TCX
9.258	222195	39.534	DCB	8.71	142832	39.461	DCB

Files:
Area File: 1p7190.008.RAW
Area File: 1p7190B.008.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 5:34:11 PM
File Reported On: 7/8/2012 at 5:34:19 PM

ASX73 1268

AR1631224B AAAR163AA ICAL 1218999999 SW-846 8082

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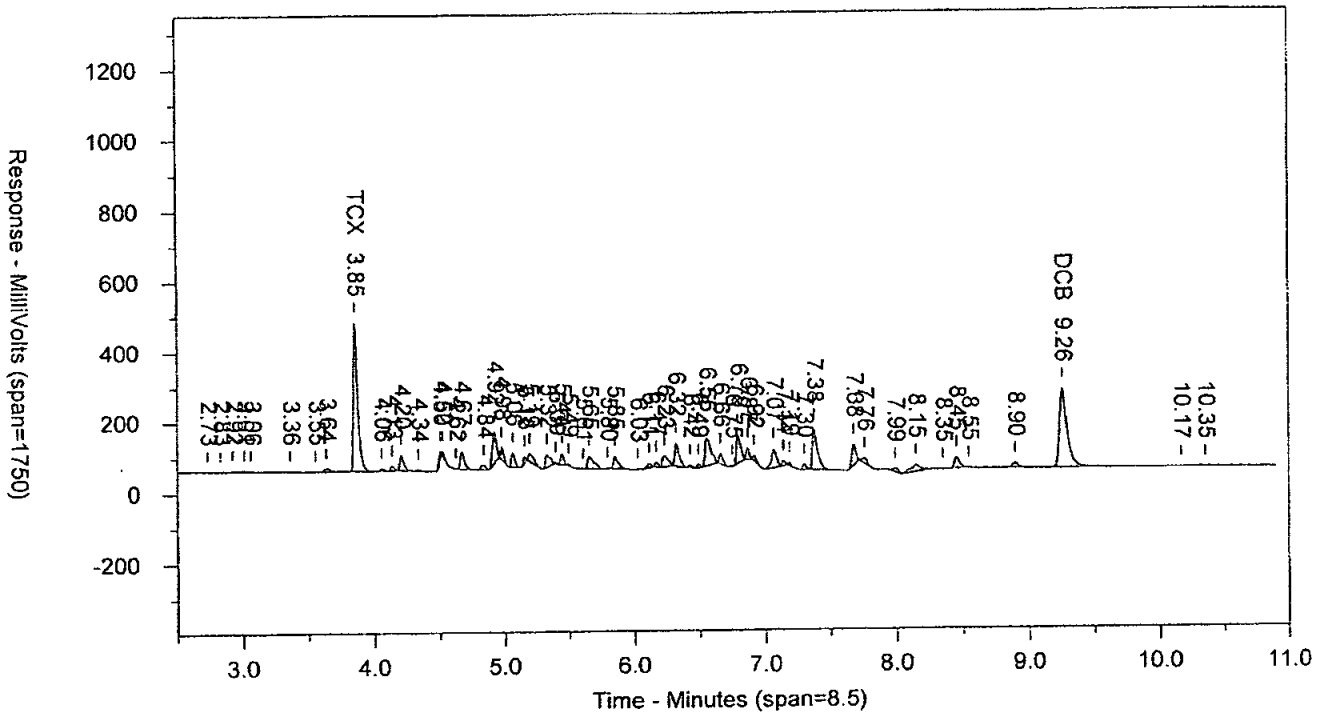

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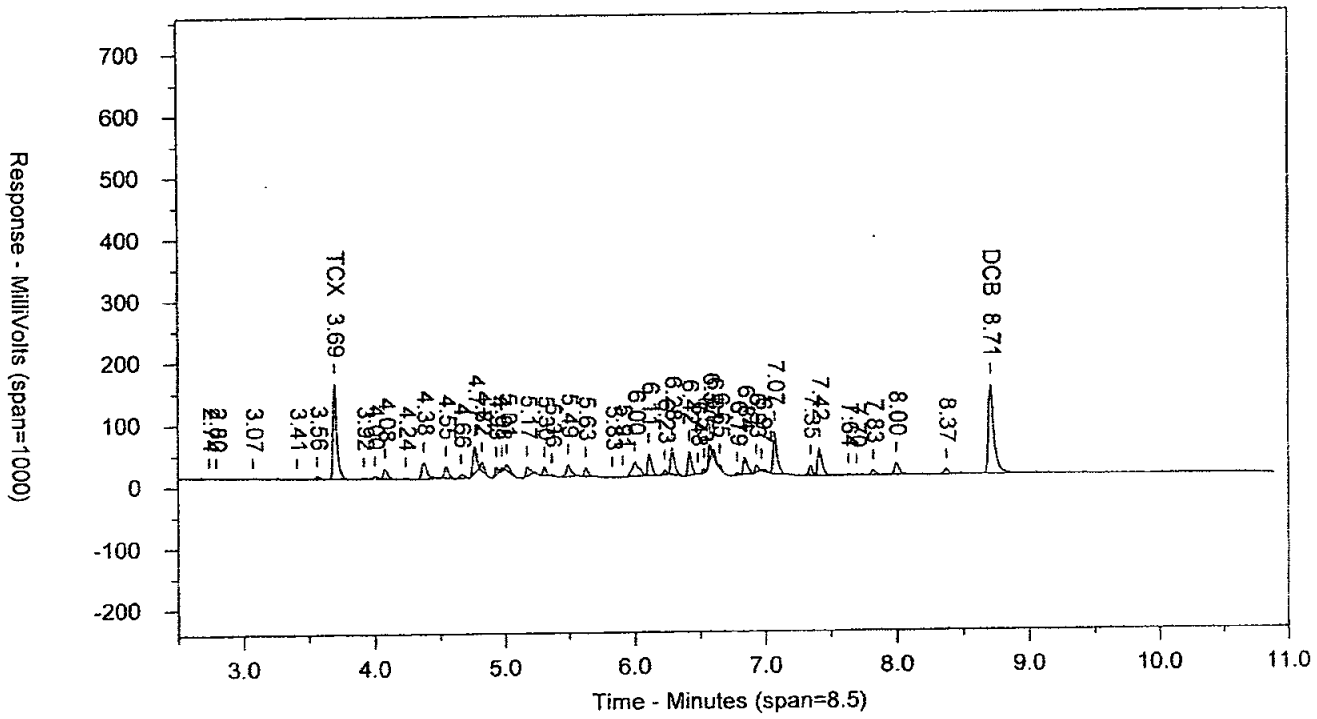

ASX73 1269

LANCASTER LABORATORIES

Sample Number: AR1641224B AAAR164AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 5:37:47 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.009.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.759		707	2055
1.882		226	570
1.966		277	602
2.161		1788	14961
2.325		646	2434
2.707		1656	12001
2.924		3663	6622
3.009		910	1310
3.061		1689	5831
3.191		1193	7247
3.36		1864	7374
3.486		550	1155
3.552		268	418
3.635		3059	8949
3.745		305	780
3.854	TCX	597591	1354820
4.057		18214	36696
4.135		27199	48772
4.203		94548	211241
4.336		12628	27206
4.504		42955	49602
4.523		24252	29438
4.622		4012	4081
4.668		106695	233021
4.824		6546	9918
4.84		8251	9950
4.923		197894	438708
4.976		74592	125418
5.06		93153	180516
5.151		42750	54722
5.191		49406	151284
5.323		80144	210652
5.393		12639	12390
5.443		69114	122476
5.494		11027	15003
5.607		2434	2851
5.653		83086	311344
5.796		7387	10606
5.851		77061	207180
6.029		2869	5058
6.111		29262	62325
6.166		30817	47909
6.226		67275	194401
6.314		142946	346410
6.422		18290	32592
6.49		23725	39235
6.551		170518	555977
6.658		64783	138934
6.751		8296	9382
6.794		183288	399611
6.867		68739	105223
6.917		39331	66044
7.065		116404	289351

RT A	Compound A	Height A	Area A
7.139		38035	60042
7.187		17451	26016
7.3		35698	68210
7.376		260633	762219
7.682		132109	268135
7.764		34323	87240
7.994		8140	19449
8.103		2698	4263
8.147		27791	66366
8.334		3391	13330
8.452		71856	199605
8.546		2424	4366
8.662		247	527
8.896		29460	93083
9.259	DCB	318109	1312399
10.168		401	1425
10.35		260	1682

ASX73 1271

LANCASTER LABORATORIES

Sample Number: AR1641224B AAAR164AA ICAL 1218999999
Injected On: 7/8/2012 5:37:47 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.009.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.588		97782	1018190
2.797		847	1887
2.955		467	1035
3.261		397	965
3.408		405	1295
3.561		987	2749
3.693	TCX	228459	463029
3.918		6364	13232
4.002		9197	18254
4.078		37100	78560
4.237		4975	11383
4.375		60749	170983
4.545		45903	103742
4.675		13380	38978
4.767		104022	199586
4.821		32775	54620
4.933		34368	46846
4.975		13958	15014
5.01		25250	56526
5.17		36243	73866
5.302		33606	64644
5.364		7468	11348
5.489		45847	115570
5.572		1839	2179
5.626		33114	63003
5.83		1448	2747
5.908		6507	10934
6		54529	189898
6.106		80834	157837
6.226		15326	26522
6.279		97278	191223
6.415		90156	164652
6.482		3752	4060
6.527		15874	19710
6.574		61415	74750
6.604		28296	31957
6.655		22163	30531
6.785		10828	19224
6.843		65348	136101
6.932		26907	37922
6.973		3644	3367
7.069		158383	324479
7.167		2682	3940
7.347		32866	57310
7.413		115123	250019
7.639		4504	8627
7.748		1006	1847
7.829		19161	45276
7.998		47103	123883
8.373		17601	46336
8.711	DCB	203013	598863

ASX73 1272

AR1641224B AAAR164AA ICAL 1218999999 SW-846 8082

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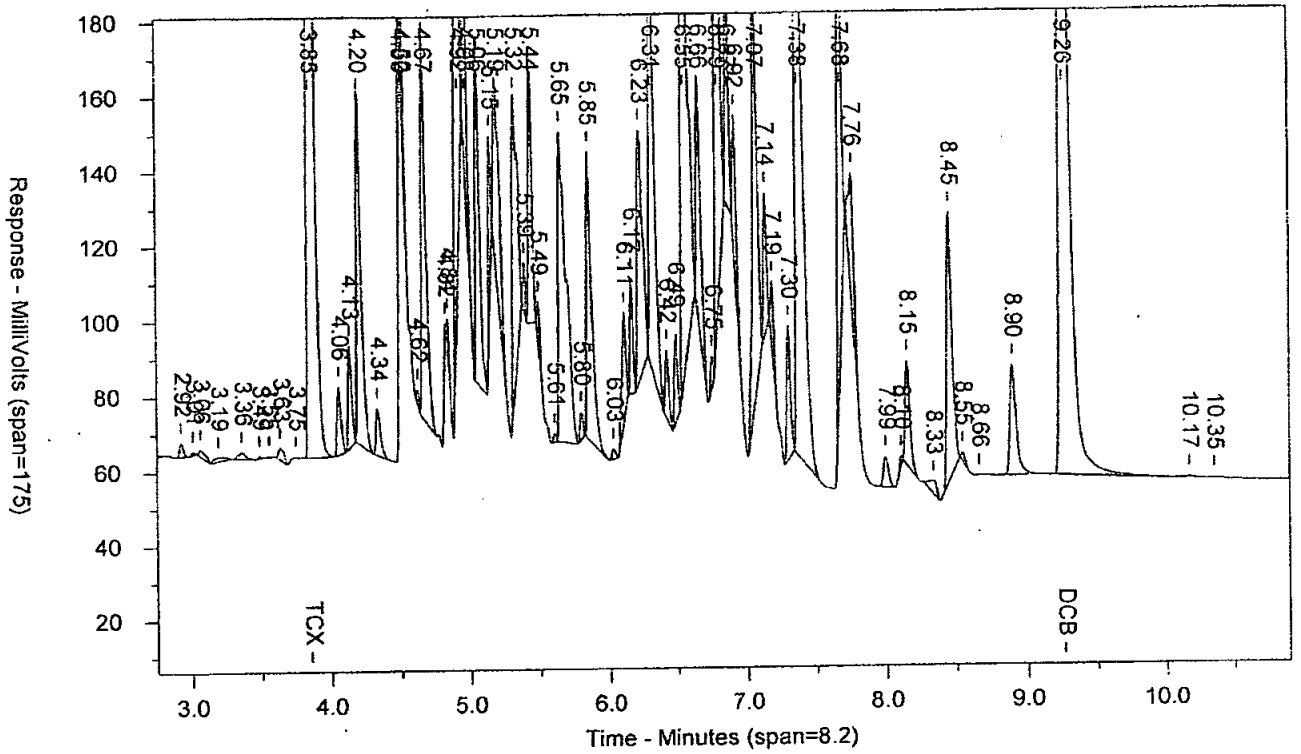

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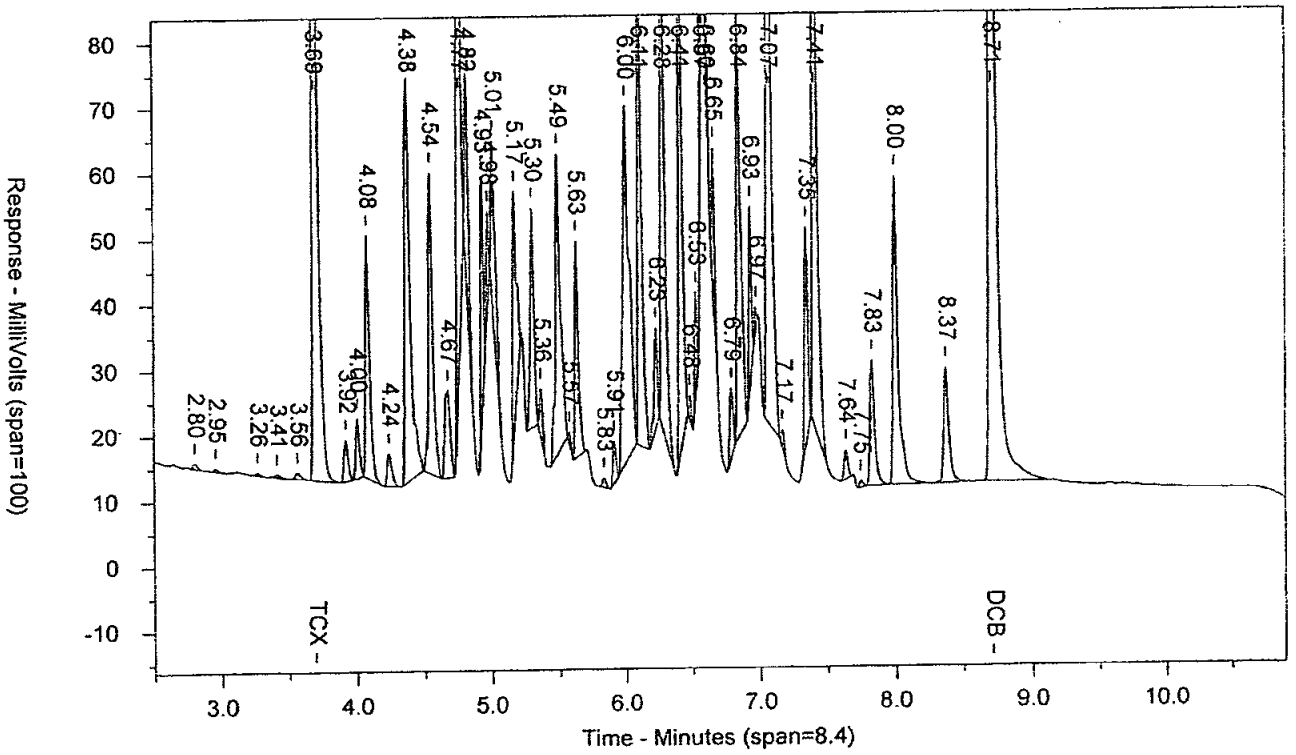

ASX73 1273

LANCASTER LABORATORIES

Sample Number: AR1641224B AAAR164AA ICAL 1218999999
Injected On: 7/8/2012 5:37:47 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.854	597591	58.308	TCX	3.693	228459	63.866	TCX
9.259	318109	55.196	DCB	8.711	203013	54.986	DCB

Files:
Area File: 1p7190.009.RAW
Area File: 1p7190B.009.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 5:48:42 PM
File Reported On: 7/8/2012 at 5:48:49 PM

ASX73 1274

AR1641224B AAAR164AA ICAL 1218999999 SW-846 8082

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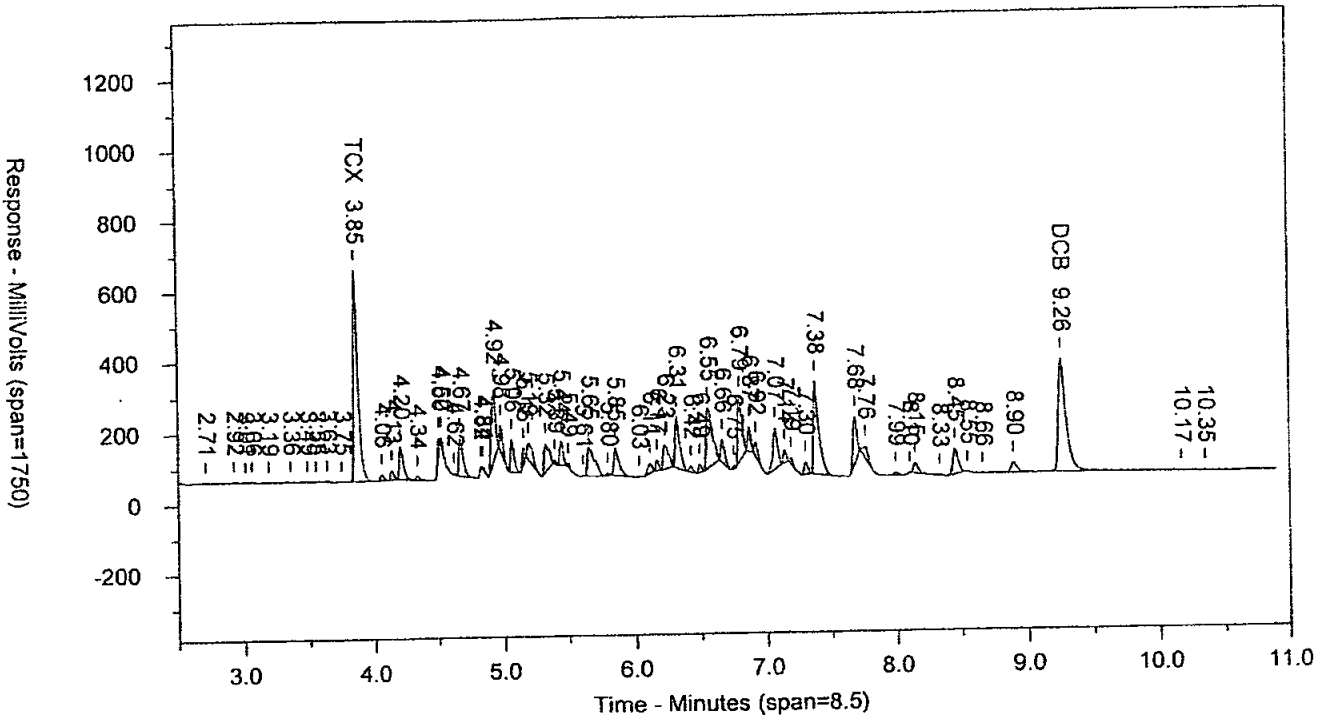

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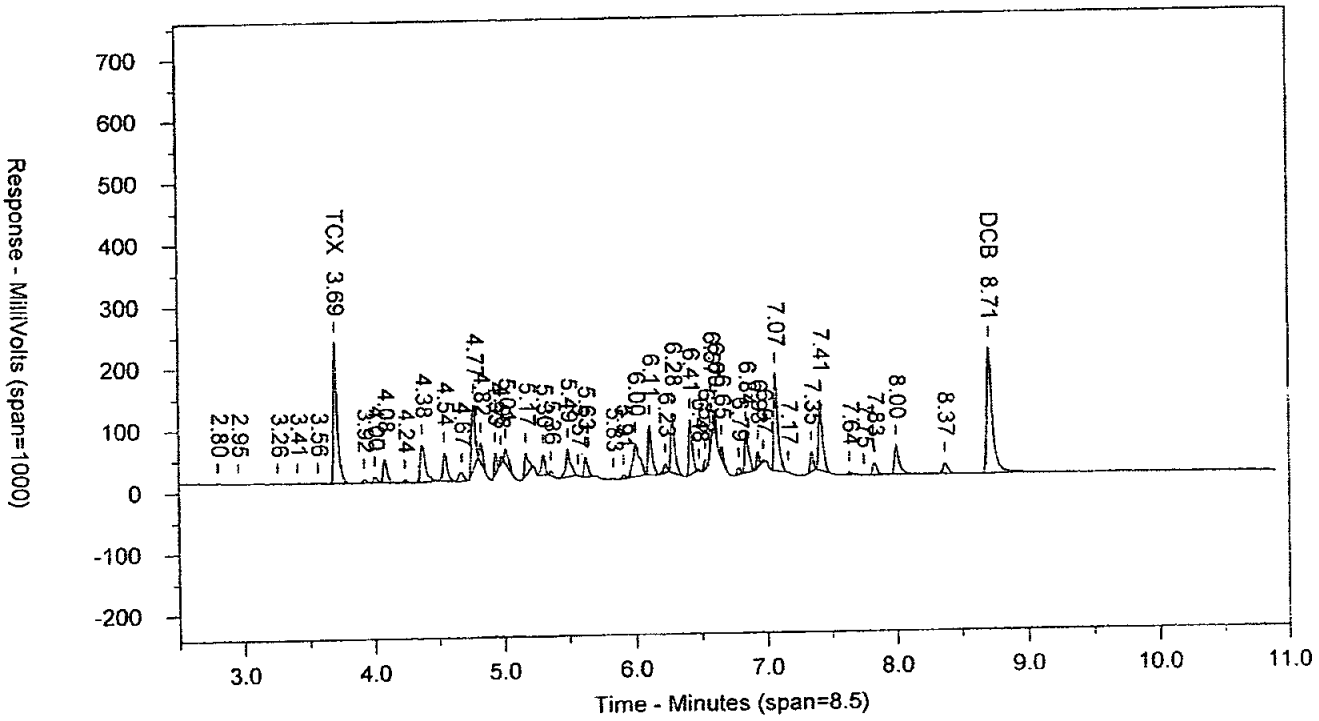

ASX73 1275

LANCASTER LABORATORIES

Sample Number: AR1651224B AAAR165AA ICAL 1218999999 Injection Volume:SW846 8082
Injected On: 7/8/2012 5:52:35 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.010.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.875		780	2559
1.97		464	1495
2.058		592	1535
2.162		1269	8978
2.328		405	833
2.711		4898	14624
2.925		4979	9588
3.009		899	1389
3.063		1552	2671
3.362		2805	9446
3.486		1740	3584
3.636		2630	8001
3.743		417	866
3.855	TCX	752132	1741632
4.058		33908	69908
4.136		45103	80647
4.204		169793	382448
4.336		24016	51756
4.504		78782	89308
4.524		43557	54443
4.622		7266	7426
4.669		192398	431106
4.771		3055	3336
4.825		12090	17085
4.84		15169	19230
4.923		364659	798497
4.976		137490	228230
5.06		167216	328781
5.151		77348	99177
5.191		87857	270972
5.323		143546	373616
5.394		22877	22814
5.443		125160	223576
5.494		19732	28071
5.608		5076	5947
5.653		151277	585431
5.796		13289	19014
5.851		137876	377780
6.029		5406	9241
6.111		53216	113987
6.166		55361	86463
6.226		120720	349433
6.314		255062	615130
6.422		33092	58923
6.49		42522	71071
6.551		305244	982471
6.658		118480	260301
6.752		14421	15772
6.794		326809	725135
6.867		123923	186924
6.917		71509	121528
7.066		210531	521215
7.138		68120	106750

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RT A	Compound A	Height A	Area A
7.167		32125	49021
7.3		65752	126381
7.376		467566	1430653
7.682		241713	488928
7.764		63727	166994
7.994		14320	34691
8.104		4997	7776
8.148		53025	129586
8.453		123971	356554
8.546		4258	7564
8.899		53283	170743
9.26	DCB	396051	1686236
10.169		563	2155
10.397		371	2660

ASX73 1277

LANCASTER LABORATORIES

Sample Number: AR1651224B AAAR165AA ICAL 1218999999
Injected On: 7/8/2012 5:52:35 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.010.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.585		102782	1044576
2.647		1374	4101
2.798		1103	2612
2.953		461	1018
3.264		844	2223
3.363		269	485
3.563		968	2812
3.693	TCX	296296	606393
3.918		12406	25432
4.003		16376	31618
4.077		68756	141971
4.238		9418	21254
4.375		109322	306055
4.545		85770	190622
4.676		25909	73947
4.767		192354	367975
4.82		60622	101296
4.932		66974	84726
4.974		26319	27843
5.01		47981	105178
5.169		68678	136202
5.228		9721	11267
5.302		64258	121434
5.364		14876	21926
5.489		85225	211980
5.572		3523	4238
5.626		61150	112454
5.831		2788	5371
5.909		12753	21093
6		101472	347522
6.106		148077	280176
6.226		29292	51007
6.279		177556	340979
6.414		169327	299748
6.482		7866	8553
6.527		30361	36421
6.574		113541	136249
6.604		49240	57158
6.654		42796	57712
6.786		21705	38097
6.843		122721	249878
6.932		50030	67965
6.973		8472	7982
6.996		8316	10500
7.068		296895	599947
7.167		4996	7318
7.348		60625	102510
7.413		213264	465442
7.64		8045	15809
7.748		1439	2434
7.829		36186	85151
7.998		87431	231338
8.374		32907	84888
8.712	DCB	257853	755559

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ASX73 1278

9.574	365	845

ASX73 1279

AR1651224B AAAR165AA ICAL 1218999999 SW-846 8082

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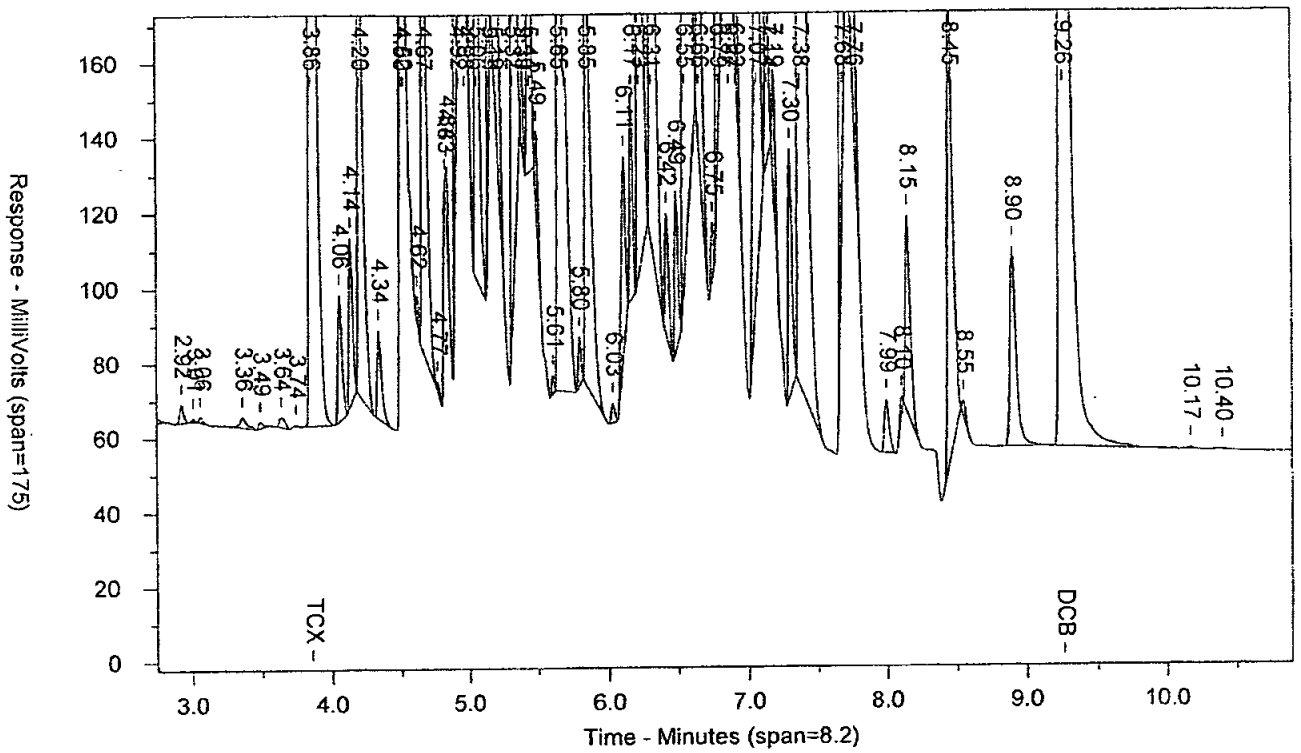

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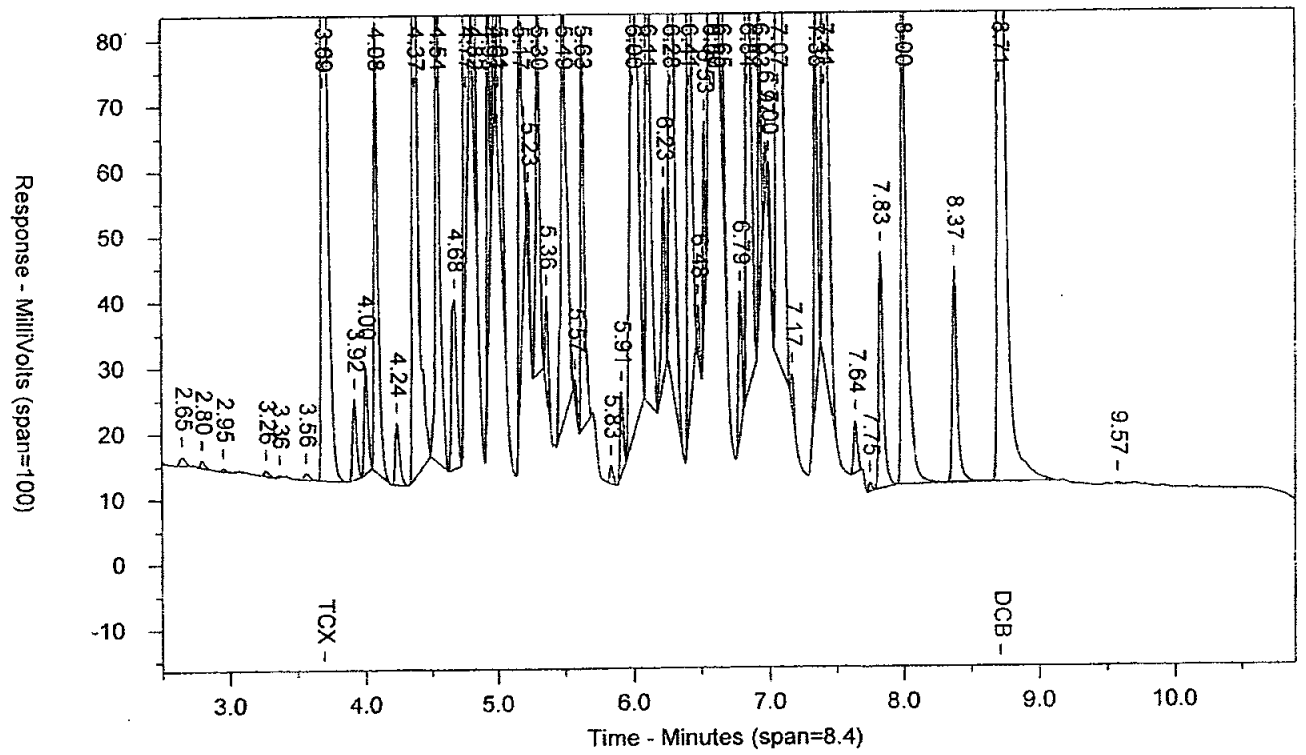

ASX73 1209

LANCASTER LABORATORIES

Sample Number: AR1651224B AAAR165AA ICAL 1218999999
Injected On: 7/8/2012 5:52:35 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.855	752132	71.694	TCX	3.693	296296	81.55	TCX
9.26	396051	66.979	DCB	8.712	257853	68.868	DCB

Files:
Area File: 1p7190.010.RAW
Area File: 1p7190B.010.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 6:03:29 PM
File Reported On: 7/8/2012 at 6:03:36 PM

ASX73 1281

AR1651224B AAAR165AA ICAL 1218999999 SW-846 8082

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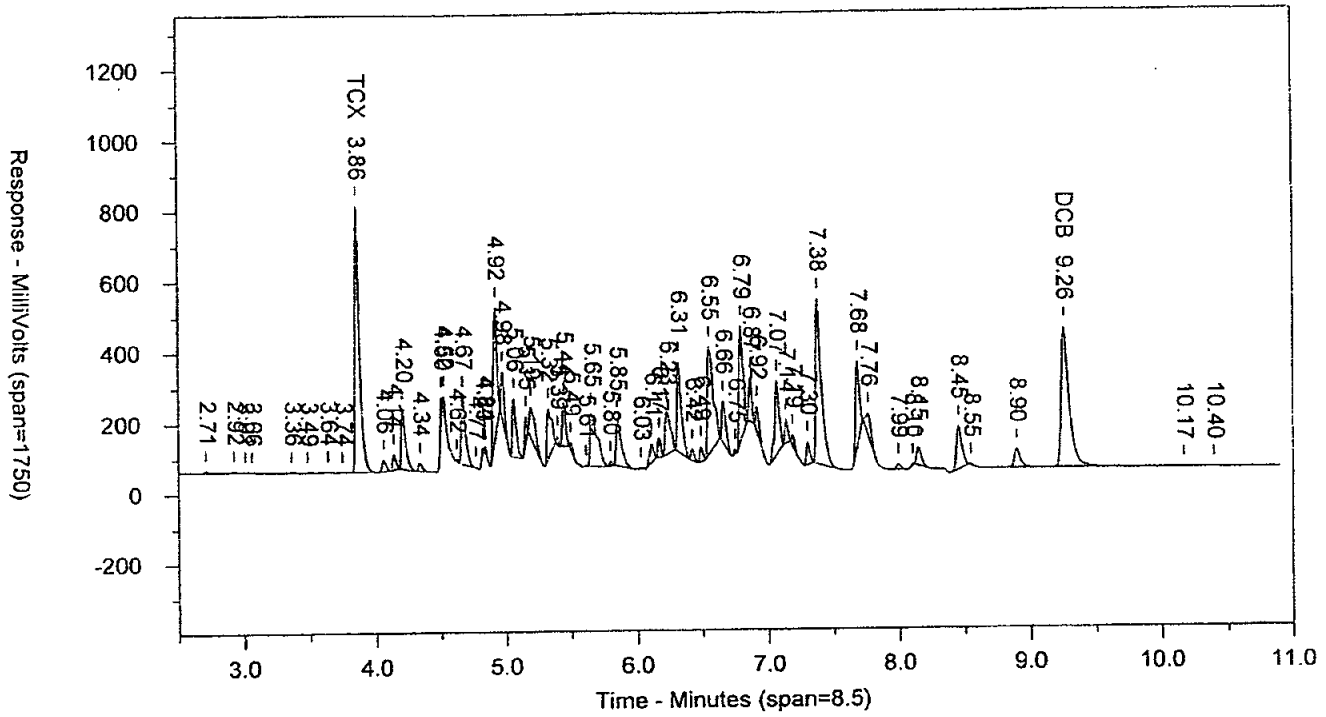

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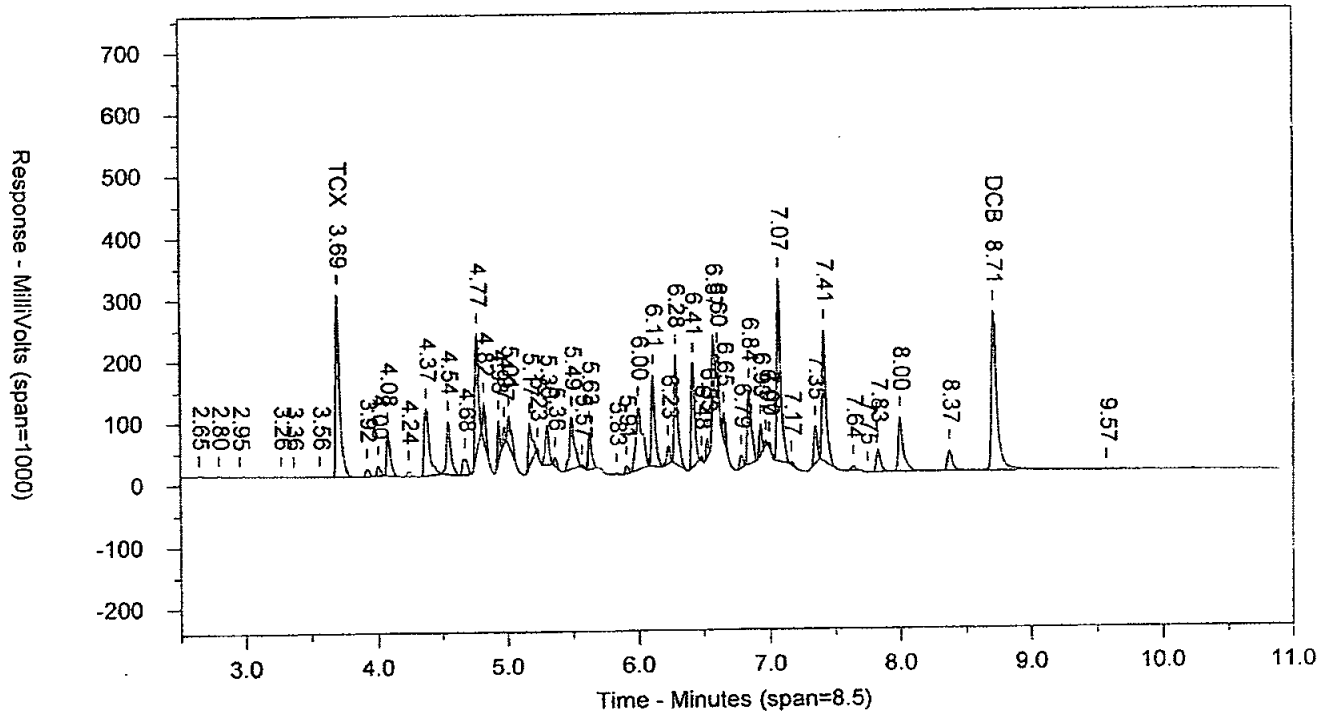

ASX79 1282

LANCASTER LABORATORIES

Sample Number: AR4811224A AAAR481AA ICAL 1218999999
Injected On: 7/8/2012 6:56:49 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.014.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

Injection Volume: 1 ul
Analyst: 2855

RT A	Compound A	Height A	Area A
1.532		2648	7335
1.75		365	757
1.964		691	4567
2.055		781	2280
2.158		1429	15393
2.378		932	3903
2.731		254	579
2.798		289	1369
2.923		226	390
3.01		2927	7477
3.329		415	2911
3.581		484	2717
3.637		9464	27576
3.855	TCX	49388	95368
4.132		631	977
4.205		1119	3056
4.334		374	898
4.506		6629	19396
4.67		4916	10413
4.823		2148	8064
4.924		12630	28441
4.978		3311	5079
5.06		5829	10099
5.153		7966	10538
5.191		6772	18928
5.324		13809	33358
5.395		2210	2339
5.444		9753	16463
5.496		1919	2680
5.607		898	1186
5.653		3229	3957
5.677		5233	5121
5.707		7856	11603
5.795		517	600
5.848		15509	59298
6.028		2866	4971
6.092		3174	4400
6.129		1324	1274
6.167		6763	12199
6.27		2848	6434
6.375		503	649
6.424		5206	10121
6.518		254	309
6.66		5105	11397
6.795		1083	2442
6.956		1630	6408
7.81		217	1931
8.358		211	6711
8.536		2342	20285
8.895		1922	32488
9.261	DCB	29912	118635
10.102		279	2255

ASX73 1283

LANCASTER LABORATORIES

Sample Number: AR4811224A AAAR481AA ICAL 1218999999
Injected On: 7/8/2012 6:56:49 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.014.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 ul
Analyst: 2855

RT B	Compound B	Height B	Area A
1.593		16519	182607
2.74		540	1454
3.073		359	2950
3.563		3889	11740
3.694	TCX	14230	29922
4.078		354	739
4.374		2856	7091
4.545		1691	3740
4.658		770	1881
4.767		5548	11780
4.821		1145	2285
4.934		1647	2278
4.977		2742	3402
5.011		3439	7795
5.17		5606	11758
5.302		4080	7711
5.364		1107	1761
5.49		5417	9081
5.524		2878	3872
5.627		1917	2884
5.682		2544	4054
5.829		1466	2767
5.909		1883	2911
5.952		483	491
5.989		3338	6248
6.115		1696	4380
6.199		2636	5270
6.482		2567	6523
6.577		501	1022
7.068		267	2681
7.46		863	3857
7.647		263	1019
7.833		172	829
8.092		249	3118
8.372		145	1002
8.715	DCB	18482	56939

ASX73 1264

AR4811224A AAAR481AA ICAL 1218999999

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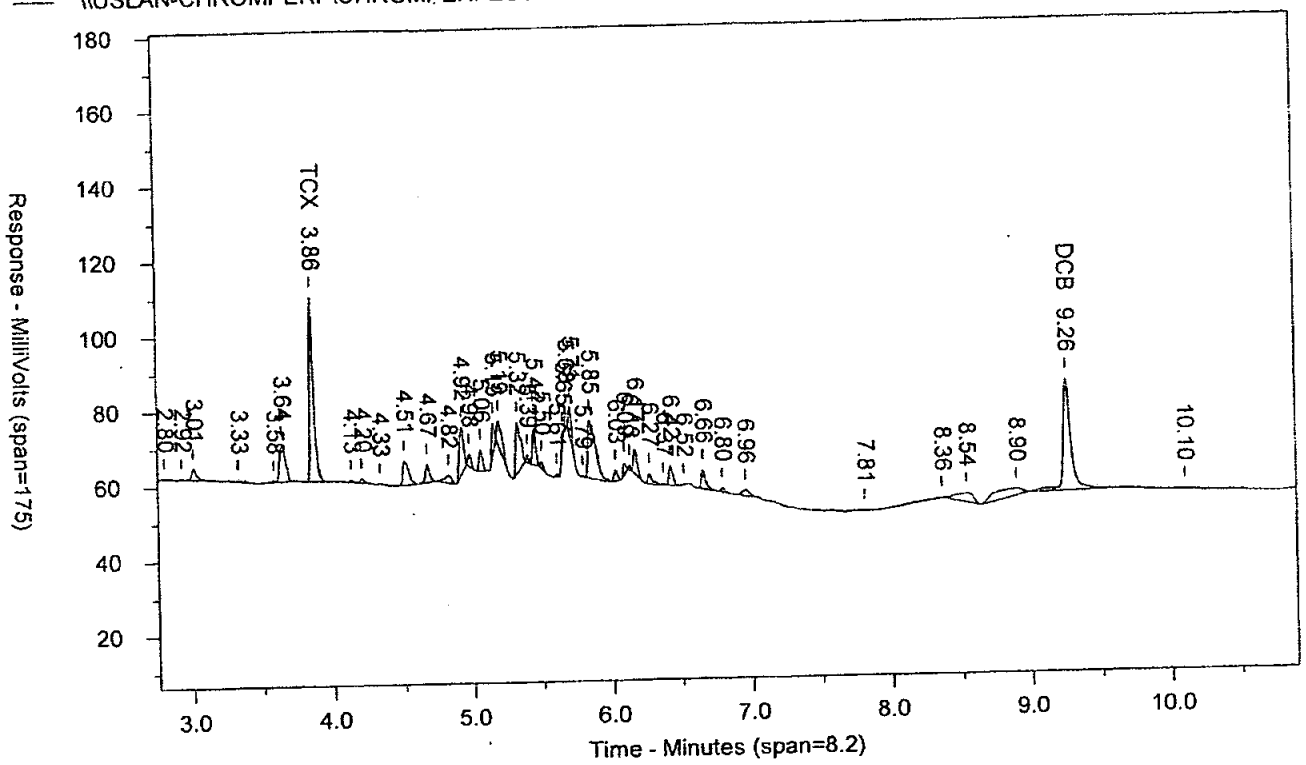

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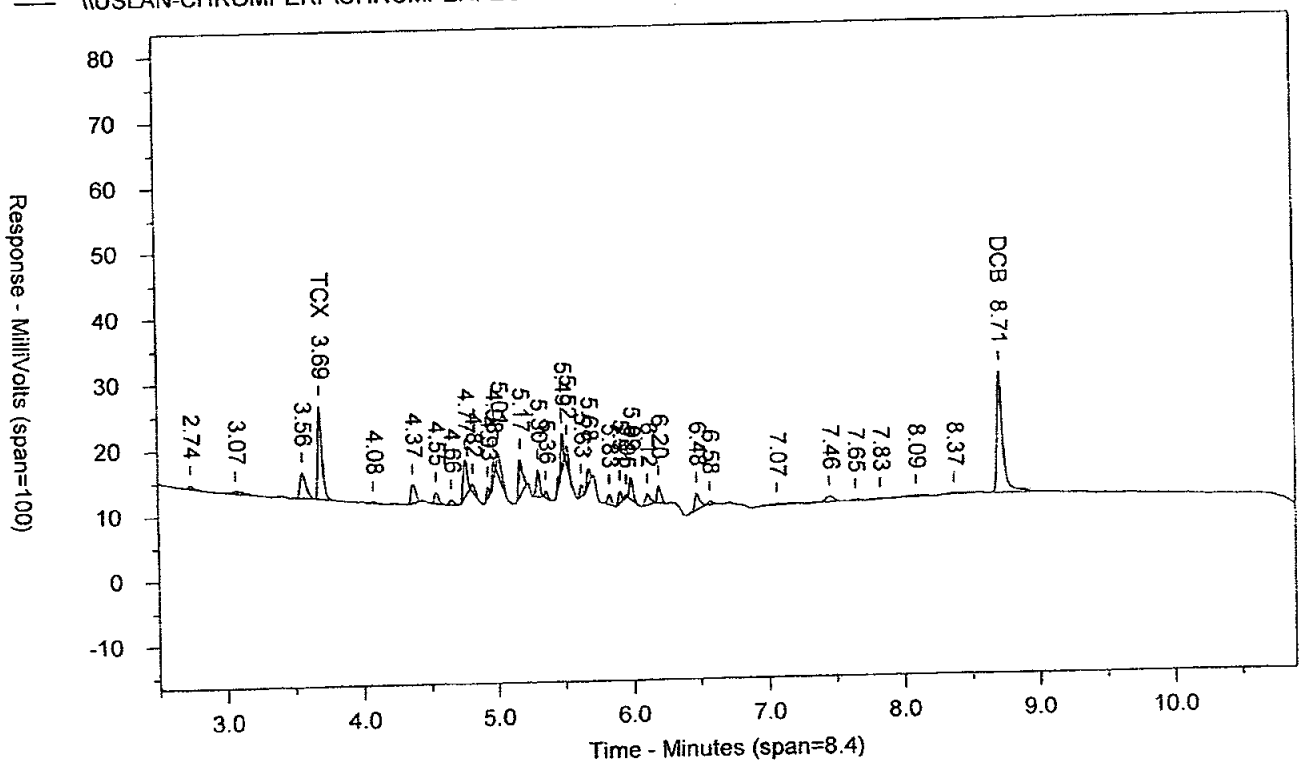

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ASX73 1285

LANCASTER LABORATORIES

Sample Number: AR4811224A AAAR481AA ICAL 1218999999
Injected On: 7/8/2012 6:56:49 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1
Dilution Factor: 1

Threshold: 3
Calibration Type: external
Quantitation: Height

Analyst: 2855

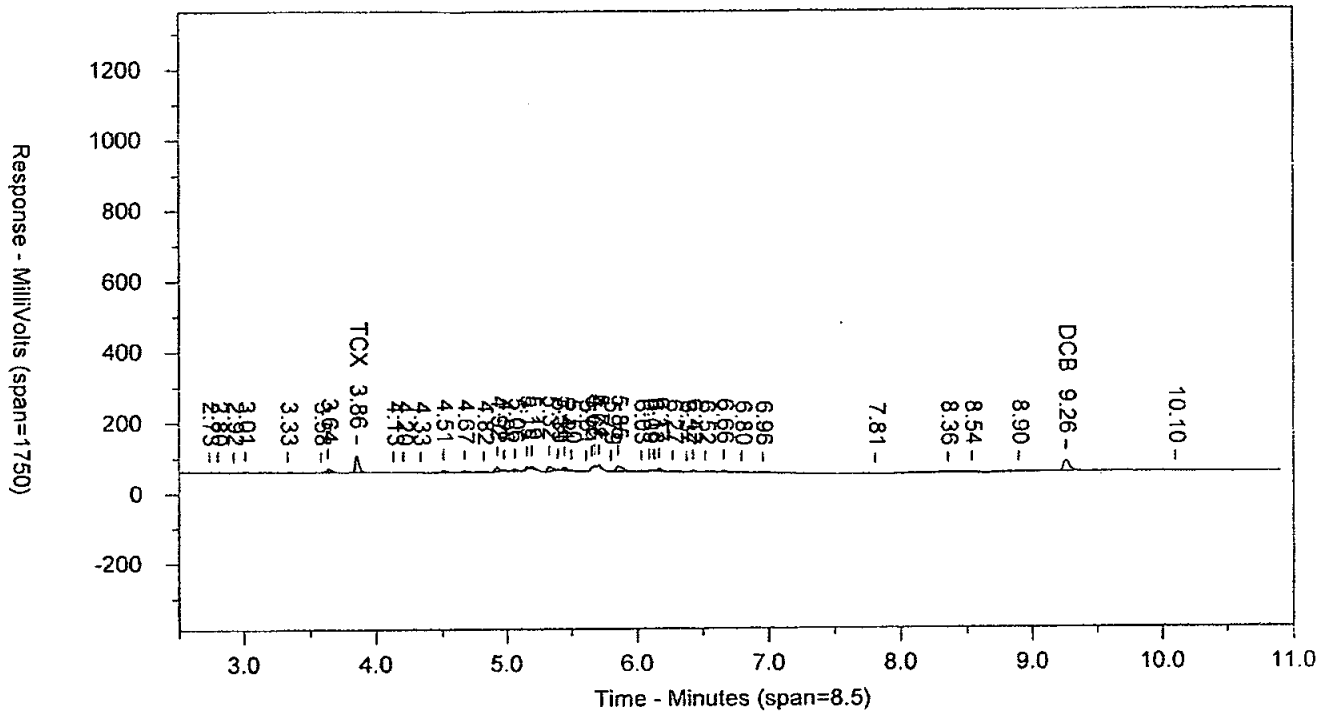
RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
3.855	49388	4.623	TCX	3.694	14230	3.863	TCX
9.261	29912	1.378	DCB	8.715	18482	4.875	DCB

Files:
Area File: 1p7190.014.RAW
Area File: 1p7190B.014.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 7:07:45 PM
File Reported On: 7/8/2012 at 7:07:49 PM

ASX73 1286

AR4811224A AAAR481AA ICAL 1218999999

— \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190.014.RAW



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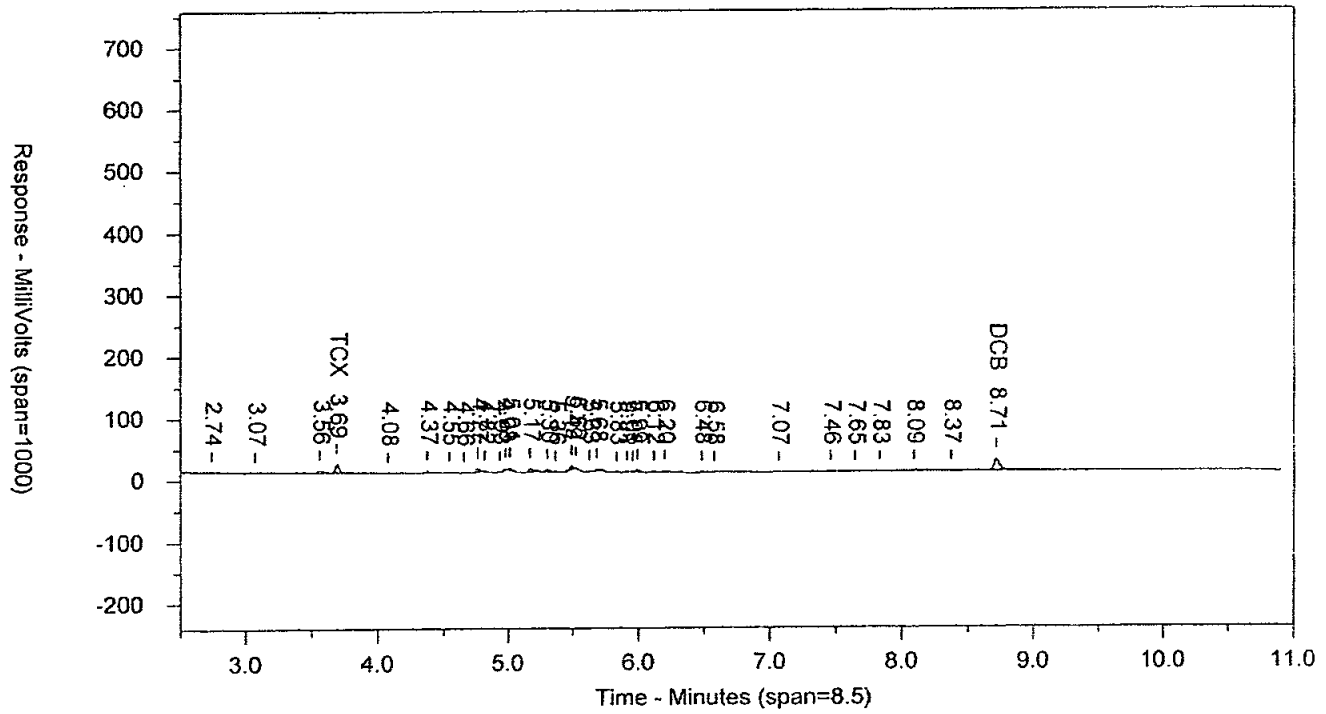

ASX73 1287

LANCASTER LABORATORIES

Sample Number: AR4821224A BQAR482BQ CCAL 1218999999
Injected On: 7/8/2012 11:11:10 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.031.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

Injection Volume: 1 ul
Analyst: 2855

RT A	Compound A	Height A	Area A
1.53		2017	5366
1.776		1065	3440
2.062		376	736
2.164		878	6792
2.311		732	3033
2.386		876	4713
2.757		238	536
2.798		193	285
2.932		1144	2047
3.018		3122	5080
3.354		922	5074
3.504		290	674
3.558		174	249
3.601		341	306
3.644		8706	24949
3.863	TCX	207598	431387
4.07		273	548
4.14		2923	4872
4.213		1881	3899
4.34		660	1654
4.513		12292	37727
4.677		8947	18891
4.828		935	1458
4.931		23013	53806
4.985		6278	9669
5.067		10665	18285
5.16		14375	19153
5.198		12576	35773
5.331		25234	61915
5.401		3838	3971
5.45		17717	30223
5.503		3784	5236
5.614		1258	1554
5.684		13236	28861
5.714		14629	22422
5.801		969	1144
5.854		27846	109524
6.034		5364	9518
6.098		5336	7377
6.135		2261	2223
6.174		12040	22372
6.277		5544	12786
6.381		930	1185
6.431		9427	19095
6.523		379	392
6.557		688	2045
6.665		9413	20157
6.802		2199	5978
7.05		745	5203
7.381		284	541
7.694		215	402
7.779		354	2509
8.008		983	3327

ASX73 1288

RT A	Compound A	Height A	Area A
8.363		333	4989
8.909		994	16319
9.272	DCB	117281	456362
10.001		161	1333

ASX73 1289

LANCASTER LABORATORIES

Sample Number: AR4821224A BQAR482BQ CCAL 1218999999
Injected On: 7/8/2012 11:11:10 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.031.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 ul
Analyst: 2855

RT B	Compound B	Height B	Area A
1.597		16480	158806
2.747		659	1203
3.569		3538	10493
3.7	TCX	74237	146428
4.001		802	1521
4.083		660	1397
4.38		5160	12834
4.551		3293	7292
4.665		854	1971
4.773		10797	23106
4.826		1989	3674
4.94		3165	4334
4.983		4944	6235
5.017		6357	14293
5.176		10627	21827
5.309		7825	14853
5.37		2080	3243
5.496		10382	17121
5.53		5911	7858
5.633		3632	5448
5.688		4723	7651
5.836		2797	5411
5.914		3631	5454
5.957		1004	1011
5.994		6347	11667
6.121		3095	7606
6.205		5109	10341
6.286		505	2074
6.421		823	1609
6.486		4323	8874
6.581		1129	2778
6.817		456	1704
7.072		348	1130
7.228		285	1937
7.423		329	1389
7.647		632	2189
7.839		237	1294
8.382		501	2249
8.721	DCB	76284	239612

ASX73 1298

AR4821224A BQAR482BQ CCAL 1218999999

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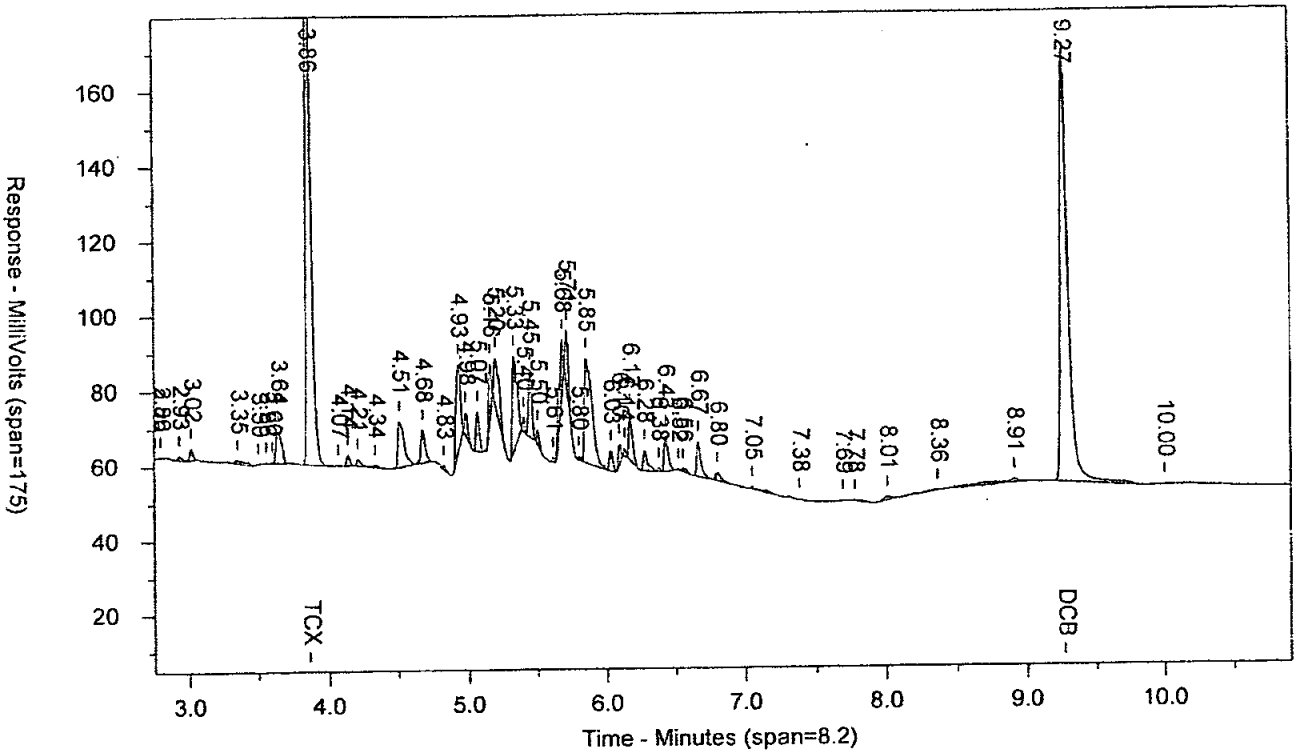

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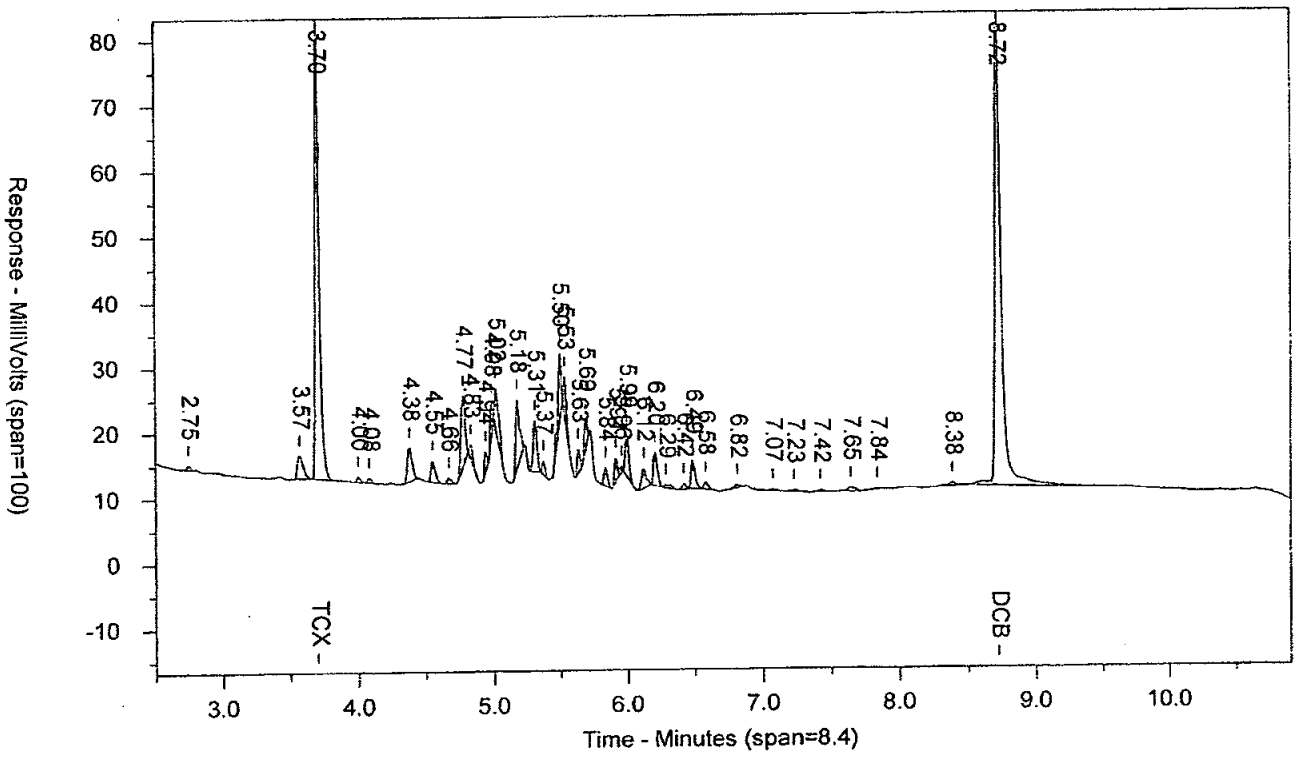

ASX73 1291

LANCASTER LABORATORIES

Sample Number: AR4821224A BQAR482BQ CCAL 1218999999
Injected On: 7/8/2012 11:11:10 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1
Dilution Factor: 1

Threshold: 3
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
3.863	207598	19.431	TCX	3.7	74237	20.155	TCX
9.272	117281	19.644	DCB	8.721	76284	20.121	DCB

Files:
Area File: 1p7190.031.RAW
Area File: 1p7190B.031.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 11:22:05 PM
File Reported On: 7/8/2012 at 11:22:13 PM

ASX73 1292

AR4821224A BQAR482BQ CCAL 1218999999

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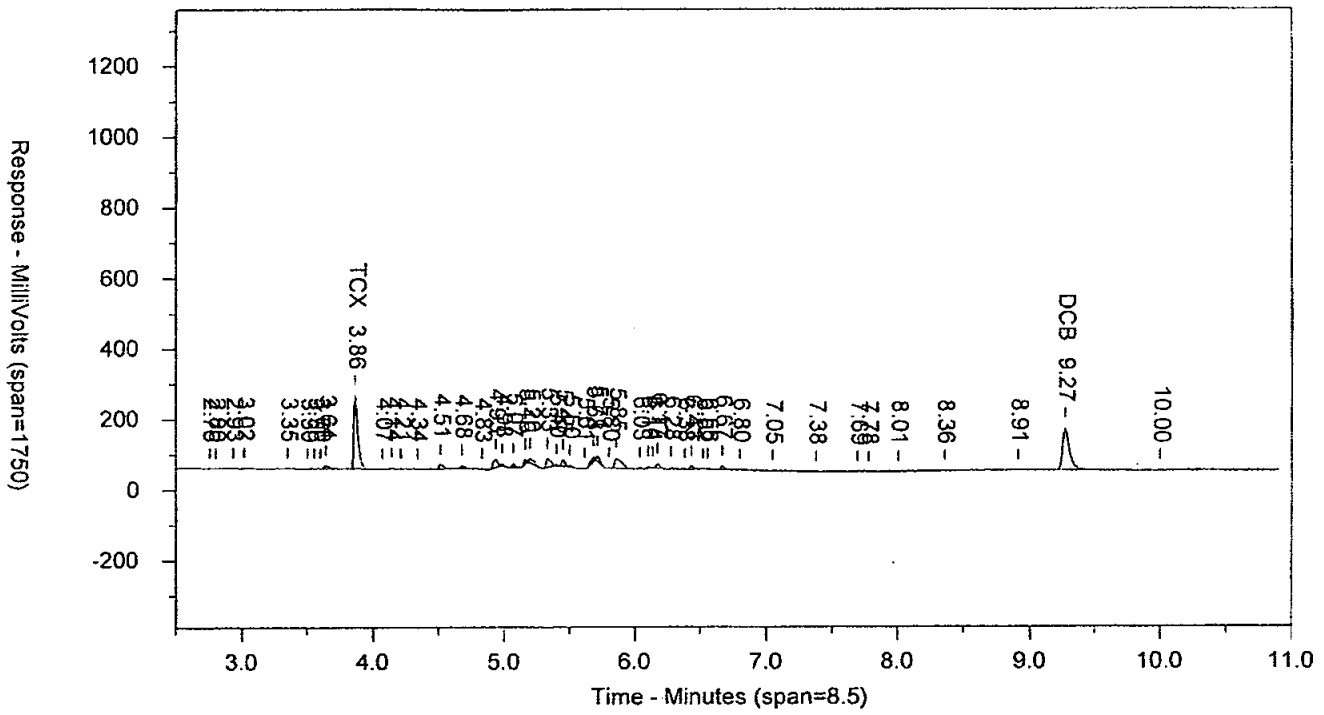

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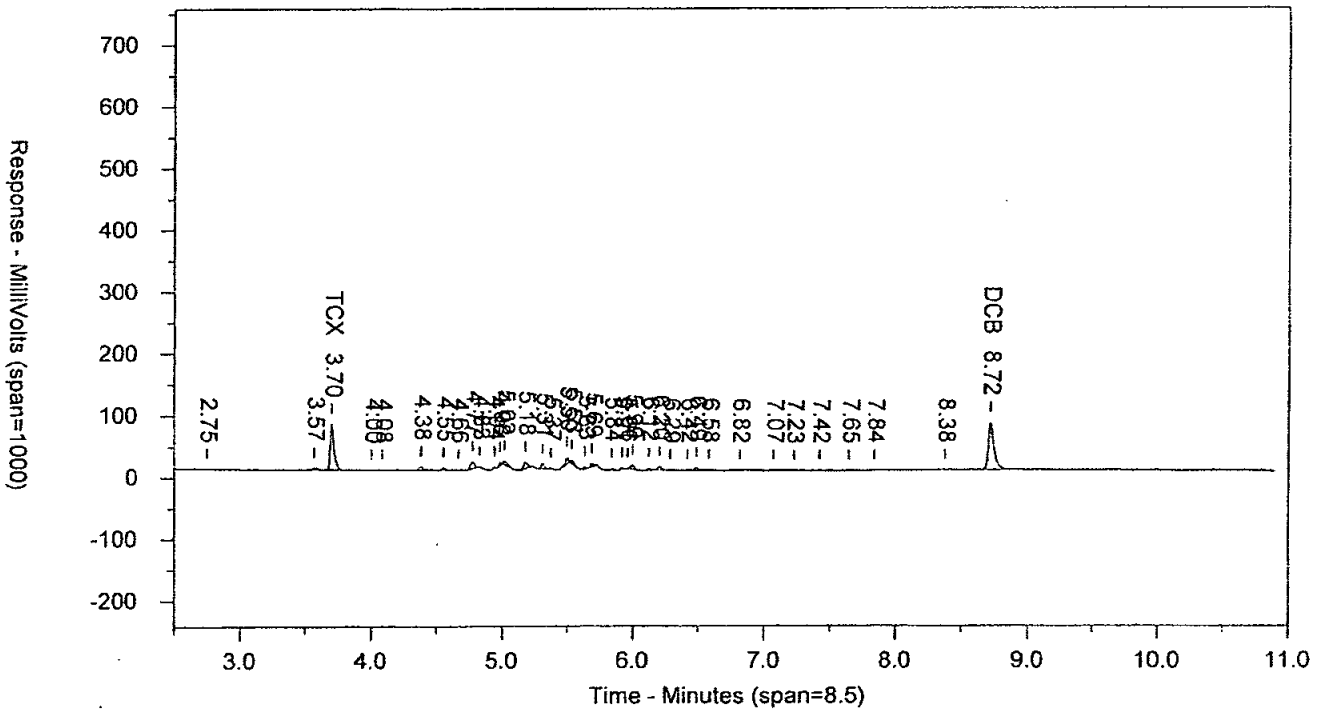

ASX73 1293

LANCASTER LABORATORIES

Sample Number: AR4831224A AAAR483AA ICAL 1218999999
Injected On: 7/8/2012 6:42:02 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.013.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

Injection Volume: SW-846 8082
Analyst: 2855

RT A	Compound A	Height A	Area A
1.535		2809	9506
1.754		404	933
1.971		984	6103
2.059		1118	4056
2.162		1876	17889
2.383		1004	3375
2.464		723	2939
2.719		459	1443
2.93		2504	4145
3.017		8542	16346
3.16		2238	7540
3.34		786	10710
3.491		562	1166
3.644		6467	21917
3.76		845	2878
3.862	TCX	397870	861338
4.065		431	807
4.14		5950	10009
4.212		4046	11130
4.347		2367	12175
4.512		25933	91239
4.677		17342	35958
4.757		918	2239
4.83		3962	5876
4.931		44453	102139
4.984		11027	17657
5.067		20839	36120
5.121		844	619
5.159		25988	34359
5.198		24484	70832
5.33		47377	116518
5.402		7334	7605
5.45		33781	58202
5.503		7296	10334
5.614		2557	3146
5.684		23900	55280
5.714		28818	44477
5.801		1635	1938
5.854		52805	200838
5.978		1024	1181
6.034		9988	16624
6.099		10657	14985
6.135		4462	4376
6.173		23766	44279
6.277		10666	24380
6.381		1860	2448
6.432		19069	47954
6.523		664	574
6.558		1753	4544
6.666		18465	42670
6.803		4327	11644
7.053		1263	2444
7.111		982	5029

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ASX73 1294

RT A	Compound A	Height A	Area A
7.305		788	1407
7.384		793	1667
7.824		569	5246
8.005		1292	2927
8.213		772	5222
8.353		891	4508
8.535		5594	48872
8.907		5693	77118
9.272	DCB	214766	889196
10.132		291	2046
10.368		330	2813
10.637		222	2224

ASX73 1295

LANCASTER LABORATORIES

Sample Number: AR4831224A AAAR483AA ICAL 1218999999
Injected On: 7/8/2012 6:42:02 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.013.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.597		16094	176334
2.643		467	1108
2.745		1703	3198
2.849		455	1043
2.957		930	2229
3.567		2199	6885
3.697	TCX	147921	288363
3.999		1708	3522
4.082		1331	2780
4.247		445	990
4.378		10504	30491
4.55		6084	12165
4.663		1211	2513
4.771		20864	43206
4.823		3731	6210
4.938		6302	8610
4.981		9673	12047
5.015		12611	28225
5.174		20029	40505
5.307		15660	29467
5.369		4113	6336
5.494		20707	33884
5.528		12073	15839
5.632		6794	9873
5.687		16529	56818
5.835		5488	10523
5.913		7294	11215
5.956		1863	1866
5.993		12222	21555
6.119		6105	14986
6.203		10113	20428
6.298		3938	15970
6.421		590	830
6.486		8562	19022
6.581		2191	5503
6.716		1311	7967
7.071		1438	12141
7.231		389	1359
7.423		713	2983
7.646		1112	3560
7.834		298	1916
8.009		171	648
8.378		1010	3612
8.719	DCB	140044	410961
9.305		200	1482
10.413		464	23746

ASX78 1296

AR4831224A AAAR483AA ICAL 1218999999 SW-846 8082

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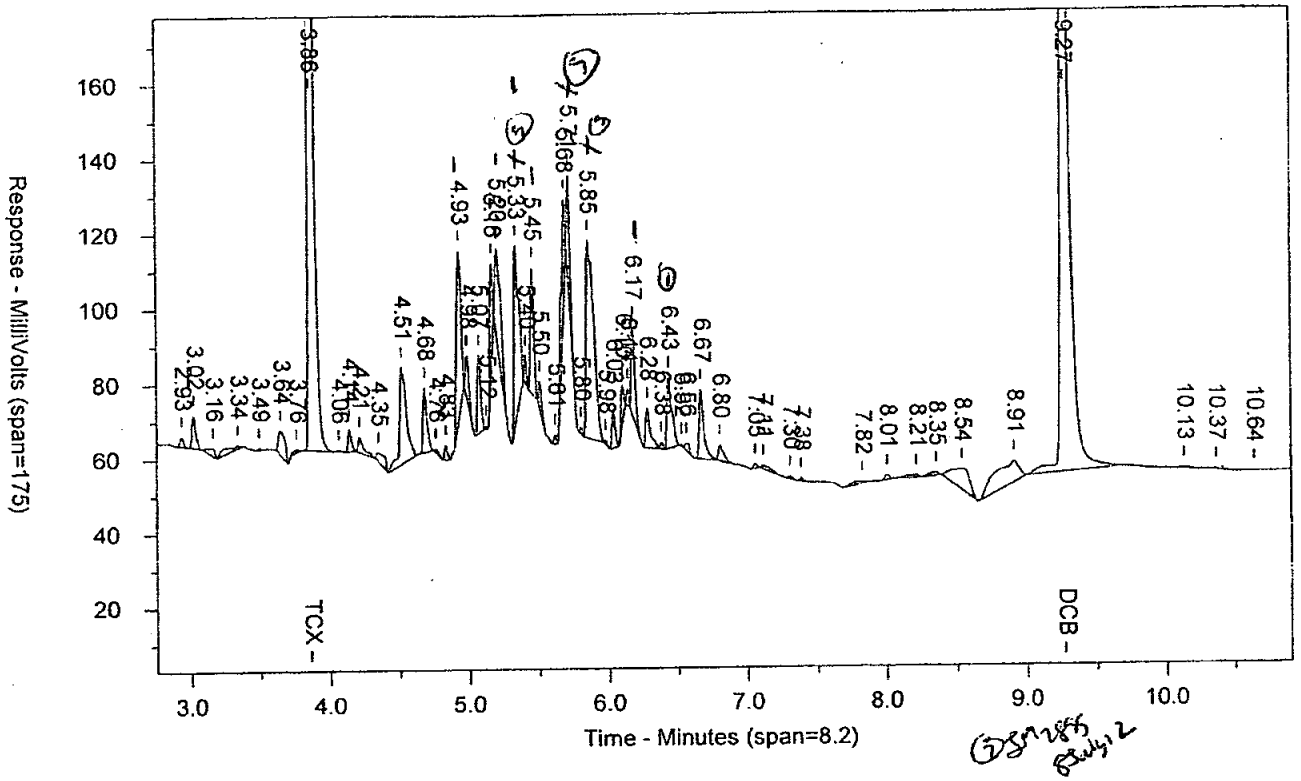

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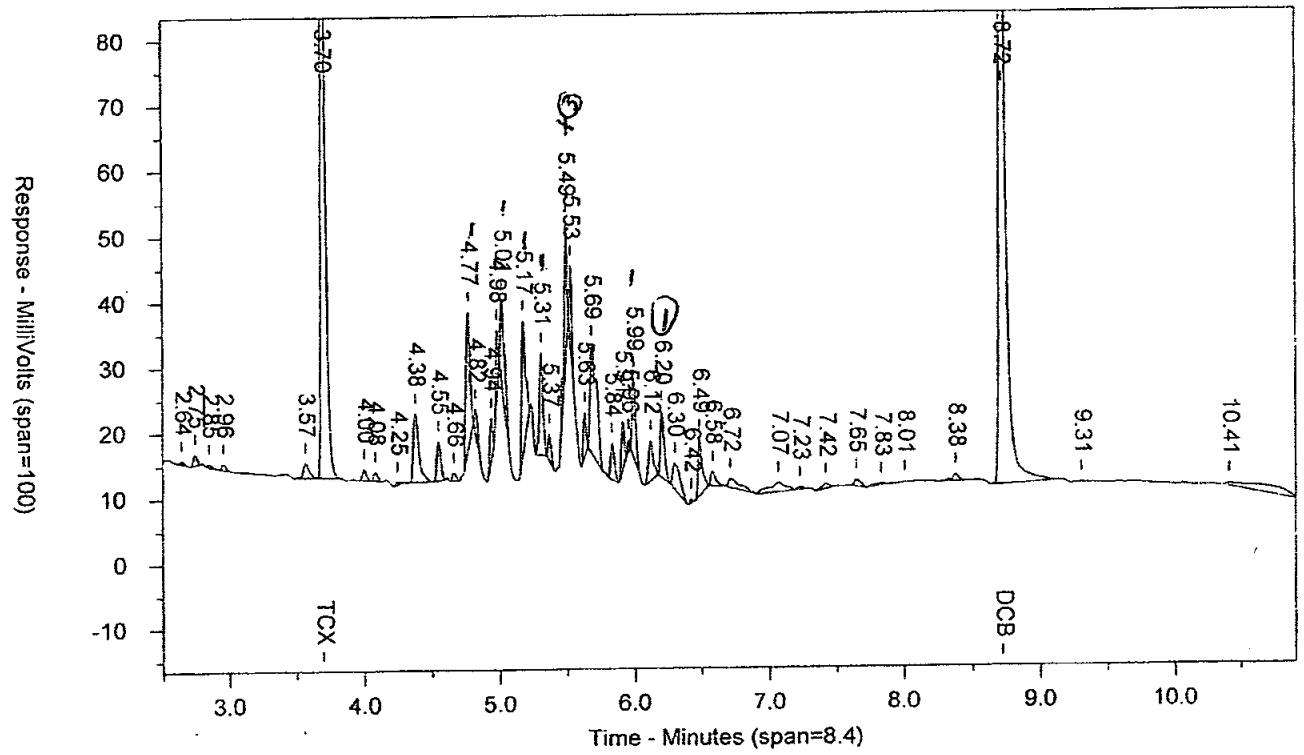

ASX79 1297

LANCASTER LABORATORIES

Sample Number: AR4831224A AAAR483AA ICAL 1218999999
Injected On: 7/8/2012 6:42:02 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: $W-846 8082
Dilution Factor: 1

Threshold: 3
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
3.862	397870	37.239	TCX	3.697	147921	40.16	TCX
9.272	214766	40.025	DCB	8.719	140044	36.938	DCB

Files:
Area File: 1p7190.013.RAW
Area File: 1p7190B.013.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 6:52:58 PM
File Reported On: 7/8/2012 at 6:53:01 PM

ASX73 1298

AR4831224A AAAR483AA ICAL 1218999999 SW-846 8082

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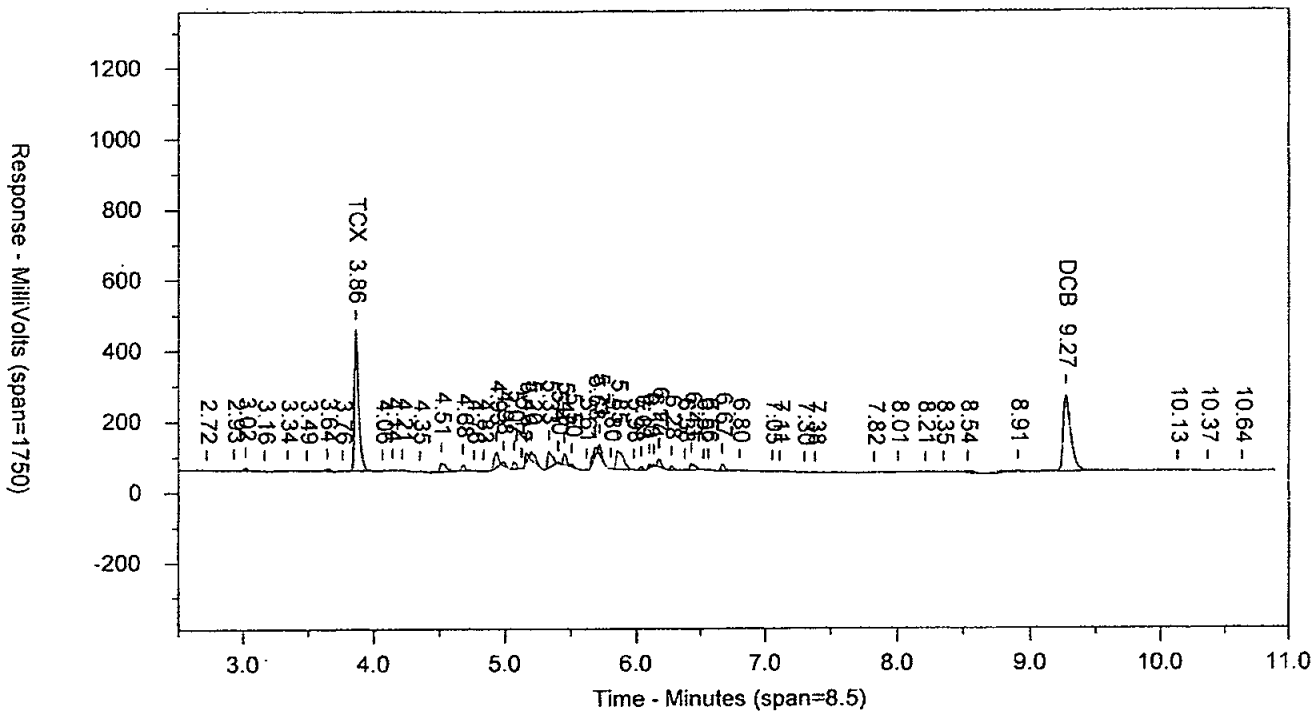

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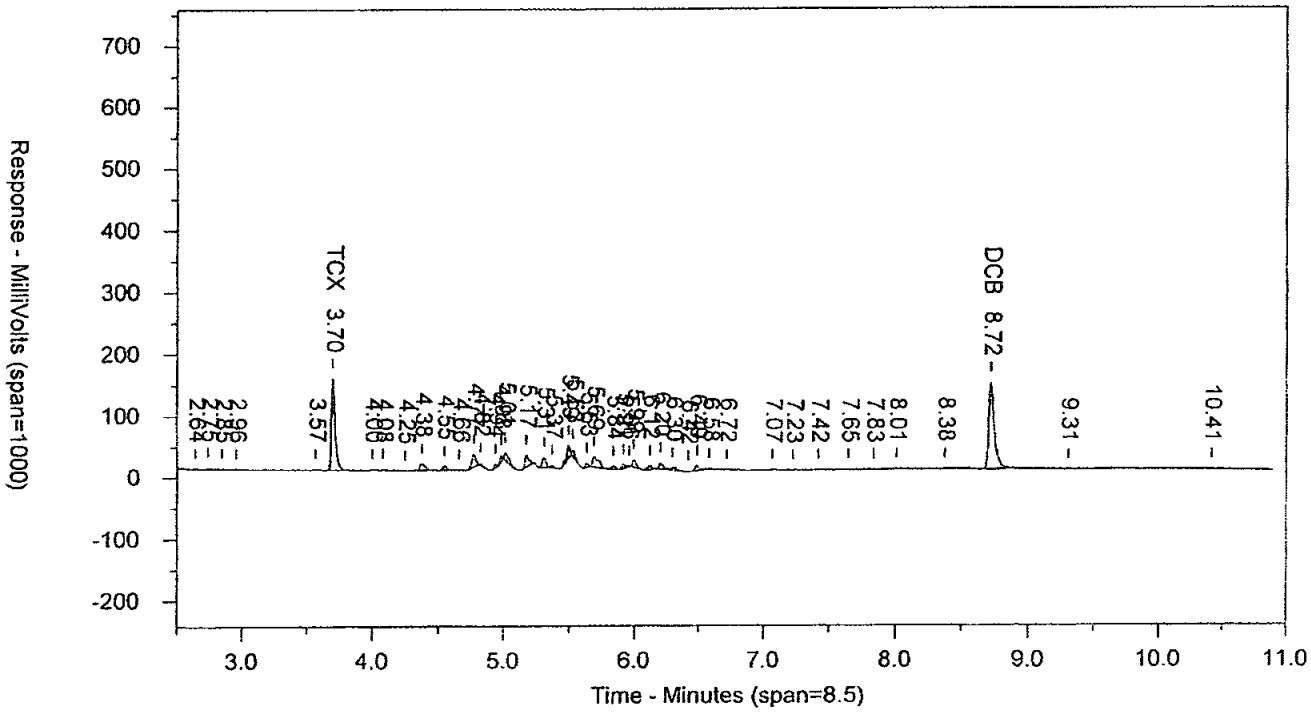

ASX73 1299

LANCASTER LABORATORIES

Sample Number: AR4841224A AAAR484AA ICAL 1218999999 Injection Volume SW846 8082
Injected On: 7/8/2012 7:11:34 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.015.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.757		6208	15374
1.883		1411	4779
1.961		2944	10052
2.156		2296	12761
2.254		2301	9511
2.368		2103	9406
2.487		1407	5924
2.651		951	2028
2.702		1923	2548
2.833		22635	46573
2.926		6110	10901
3.011		11982	35553
3.16		414	663
3.244		2377	4882
3.341		1434	6192
3.418		956	2774
3.489		2892	6468
3.556		408	483
3.636		8617	27945
3.787		568	688
3.814		512	391
3.855	TCX	600779	1400941
4.063		1128	1949
4.133		11202	23438
4.205		9418	18154
4.336		3570	8283
4.453		984	1271
4.505		60320	199914
4.669		39119	81996
4.751		1053	1300
4.825		9642	21284
4.924		116980	270631
4.977		21106	33632
5.06		49806	86262
5.113		2794	2134
5.152		67043	83391
5.191		60076	188334
5.323		112741	280436
5.395		18518	19436
5.443		83248	140858
5.495		15497	21924
5.61		7547	9705
5.651		37215	39435
5.678		76224	189435
5.799		4137	5313
5.848		48974	66924
5.868		16143	37890
5.972		2946	3341
6.029		27543	50160
6.09		24275	30696
6.13		7492	7222
6.167		59666	115702
6.272		28764	69676

RT A	Compound A	Height A	Area A
6.375		5159	6711
6.425		55901	105405
6.574		9456	38149
6.66		50805	107649
6.799		9483	29459
6.964		1764	11835
7.048		4434	11873
7.158		1459	4189
7.301		2520	5748
7.378		1933	4016
7.543		1600	3940
7.687		1190	2182
7.851		1890	10328
7.997		2258	5343
8.147		377	1274
8.207		739	1611
8.351		1072	6399
8.465		467	1399
8.749		581	7164
8.897		3873	16259
9.134		565	3062
9.262	DCB	339076	1351659
9.615		3161	10935
9.719		3585	20062
10.393		913	10261
10.658		1078	5492

ASX73 1381

LANCASTER LABORATORIES

Sample Number: AR4841224A AAAR484AA ICAL 1218999999
Injected On: 7/8/2012 7:11:34 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.015.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.589		73177	677165
1.902		3672	11226
2.467		2683	8454
2.741		1882	2872
2.792		5311	11691
2.9		2110	4001
3.16		819	1752
3.42		648	3041
3.564		3234	10207
3.693	TCX	244372	471958
3.861		21641	50855
3.997		2669	5563
4.079		3774	8036
4.164		1657	2972
4.236		1997	4106
4.374		29456	82405
4.546		16728	35993
4.661		4056	9984
4.768		57043	116877
4.819		8643	14141
4.935		17992	23287
4.977		23299	26157
5.011		32466	72613
5.128		705	703
5.17		35802	65149
5.231		5705	11087
5.303		37035	62032
5.365		10752	16317
5.462		9268	10891
5.518		121509	363979
5.628		18539	26360
5.682		21572	32982
5.72		15341	22183
5.831		16168	27223
5.911		17024	24987
5.954		5014	4887
5.989		33138	56657
6.116		16450	39934
6.2		25135	43117
6.263		27566	57345
6.433		2634	6341
6.482		24504	49753
6.578		5883	11873
6.878		1850	3084
6.938		534	693
7.067		1790	4811
7.148		2775	4333
7.345		16338	69223
7.642		1850	5111
7.84		3076	7026
8.053		694	1460
8.183		660	1954
8.269		1086	3910
8.375		1957	5993

8.603		2081	5472
8.714	DCB	227875	615118
8.975		896	2507
9.245		286	2732
9.427		478	1881
9.583		410	1170
9.787		501	1270
10.408		1021	7406
10.628		601	10075

ASX73 1393

AR4841224A AAAR484AA ICAL 1218999999 SW-846 8082

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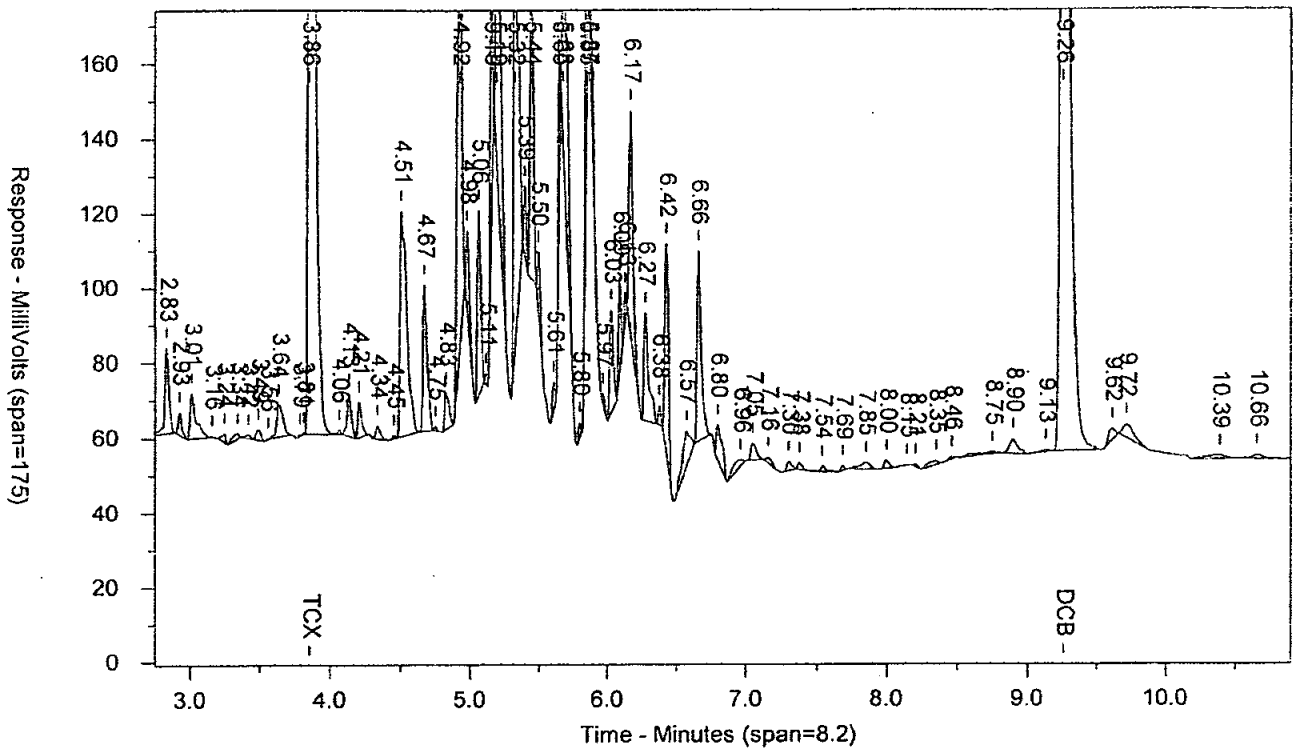

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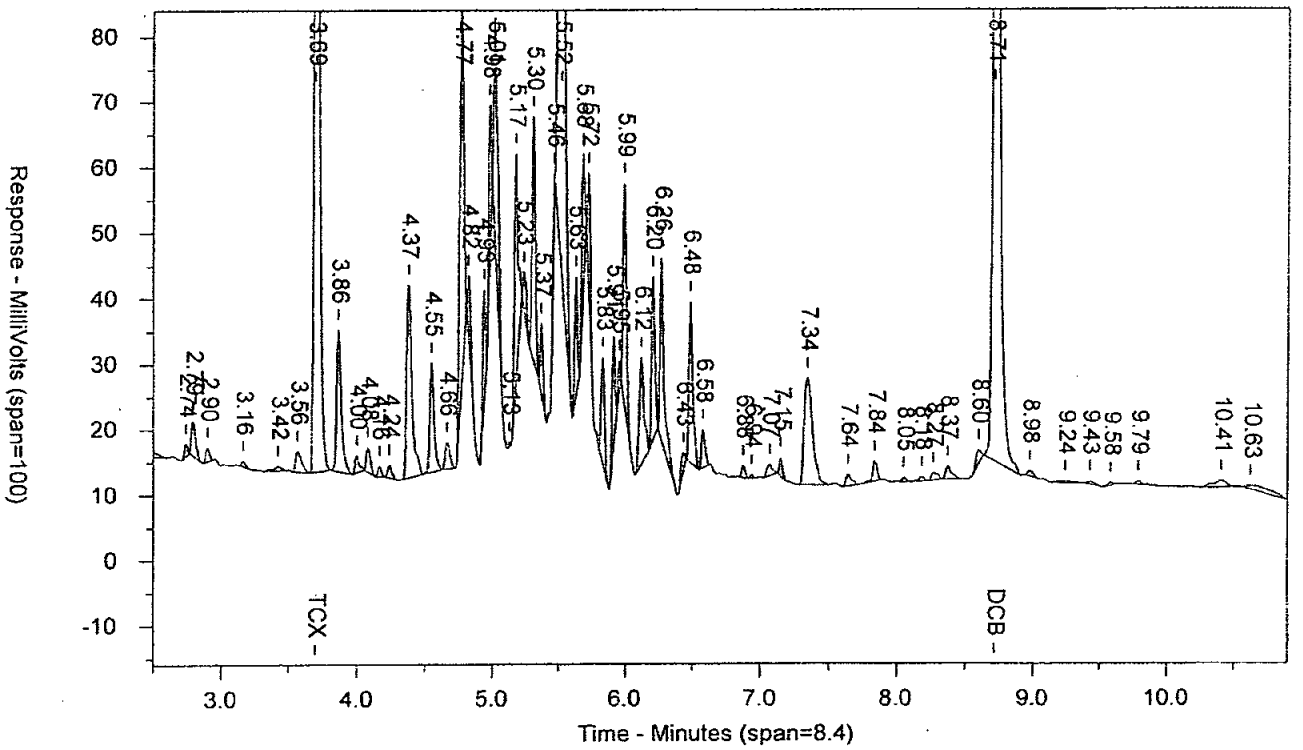

ASX73 1304

LANCASTER LABORATORIES

Sample Number: AR4841224A AAAR484AA ICAL 1218999999
Injected On: 7/8/2012 7:11:34 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: $W-846 8082
Dilution Factor: 1

Threshold: 3
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
3.855	600779	56.231	TCX	3.693	244372	66.346	TCX
9.262	339076	66.014	DCB	8.714	227875	60.105	DCB

Files:
Area File: 1p7190.015.RAW
Area File: 1p7190B.015.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 7:22:29 PM
File Reported On: 7/8/2012 at 7:22:35 PM

AR4841224A AAAR484AA ICAL 1218999999 SW-846 8082

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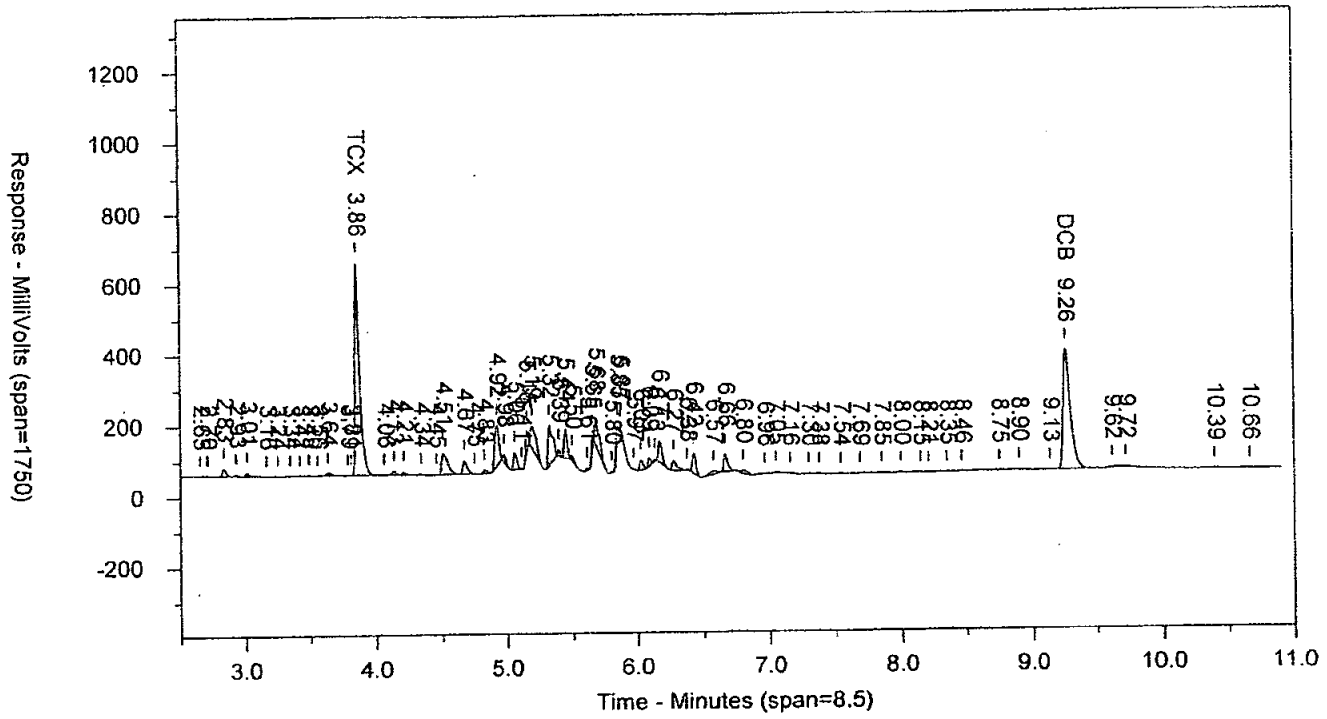

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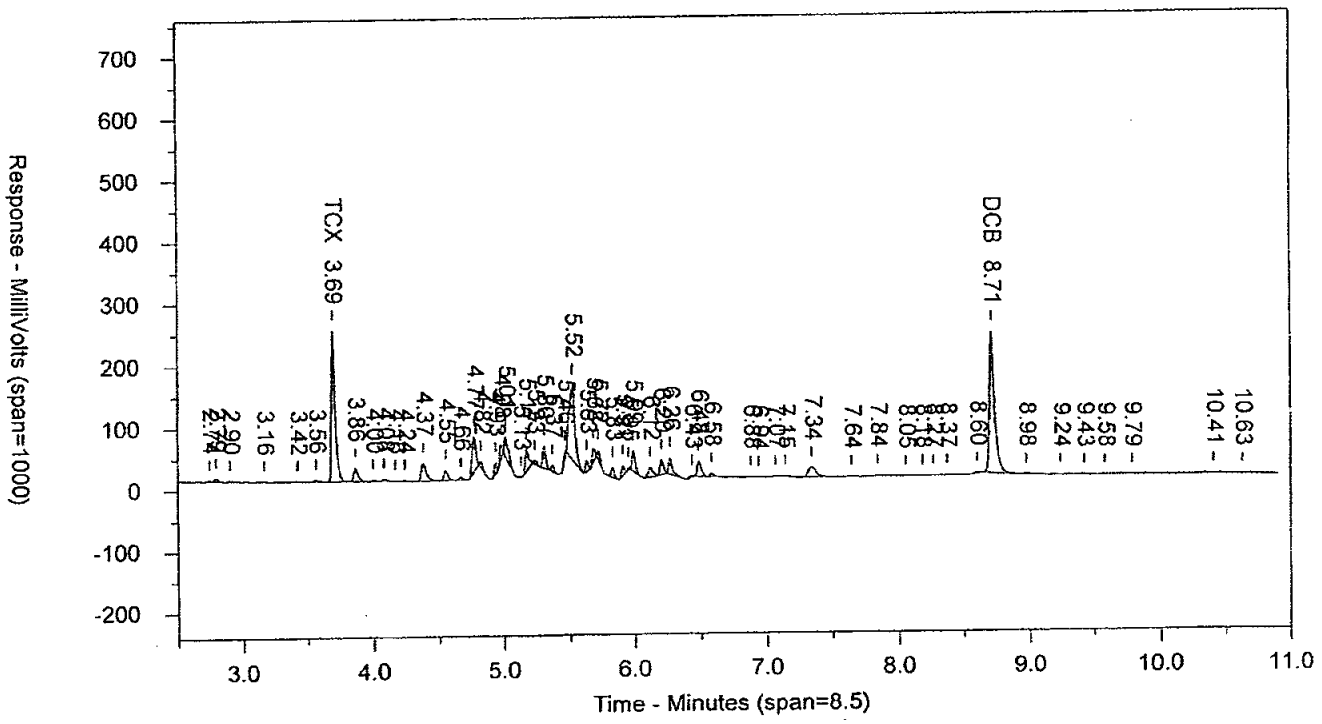

LANCASTER LABORATORIES

Sample Number: AR4851224A AAAR485AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 7:26:11 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.016.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.533		2161	8750
1.75		498	1100
1.967		836	4385
2.161		1045	10051
2.457		574	3048
2.703		464	911
2.833		2153	4543
2.925		4800	8761
3.012		2134	3356
3.063		1527	2676
3.347		803	5320
3.484		666	1338
3.635		6671	36784
3.856	TCX	721721	1644872
4.059		2019	3822
4.134		12941	22415
4.206		17820	37259
4.337		6005	13612
4.505		100714	336824
4.67		75655	173084
4.826		17487	41924
4.924		197662	462775
4.976		43440	66602
5.061		88229	155128
5.113		3648	2694
5.152		110997	140822
5.19		97707	299004
5.324		192071	470666
5.394		30710	31745
5.443		138101	235814
5.495		27696	38713
5.61		11537	14383
5.653		38991	49381
5.677		85677	87485
5.705		61558	88884
5.793		6837	7566
5.847		93499	116452
5.868		28878	64164
6.028		41310	73561
6.092		45301	61863
6.129		17744	17232
6.167		99101	192363
6.271		46827	112299
6.375		8402	10790
6.425		88471	179131
6.521		3641	3858
6.57		11191	28948
6.66		89066	207002
6.798		20280	55789
7.048		7345	19457
7.301		3636	7098
7.379		3525	7670
7.688		1796	3153

ASX73 1307

RT A	Compound A	Height A	Area A
7.77		953	3442
7.998		2655	6349
8.153		386	1238
8.353		281	1342
8.459		916	2168
8.898		9344	112512
9.264	DCB	380104	1597284
9.707		354	2087
10.164		538	2501
10.394		529	4126
10.624		112	513

ASX73 1308

LANCASTER LABORATORIES

Sample Number: AR4851224A AAAR485AA ICAL 1218999999
Injected On: 7/8/2012 7:26:11 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.016.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.601		20362	219932
2.741		411	649
2.798		1361	3094
2.956		436	896
3.115		327	1829
3.413		512	2569
3.565		1118	4503
3.695	TCX	287294	565588
3.863		1366	2429
3.918		515	870
3.999		3779	7616
4.081		6487	13746
4.24		2164	4697
4.374		47336	131241
4.547		28966	61982
4.663		6420	16555
4.768		96707	196435
4.82		16568	26027
4.935		32265	41458
4.977		44540	50079
5.011		54799	116995
5.17		76007	146299
5.231		14364	18167
5.303		70704	127044
5.366		18272	27589
5.461		17320	19578
5.49		79435	87271
5.524		58291	76054
5.628		30351	42270
5.683		44105	66680
5.72		27466	33473
5.831		25733	44019
5.91		34197	48074
5.954		9492	9178
5.989		56710	94514
6.116		27995	67257
6.2		44591	81818
6.279		2375	2834
6.418		4496	7921
6.483		41807	82015
6.579		10470	27206
6.798		682	2079
6.878		2046	3084
7.068		3164	12592
7.35		1857	5576
7.415		1408	2751
7.642		1902	4745
8.002		536	1289
8.376		2045	5461
8.715	DCB	254313	747854
9.58		269	705

ASX73 1309

AR4851224A AAAR485AA ICAL 1218999999 SW-846 8082

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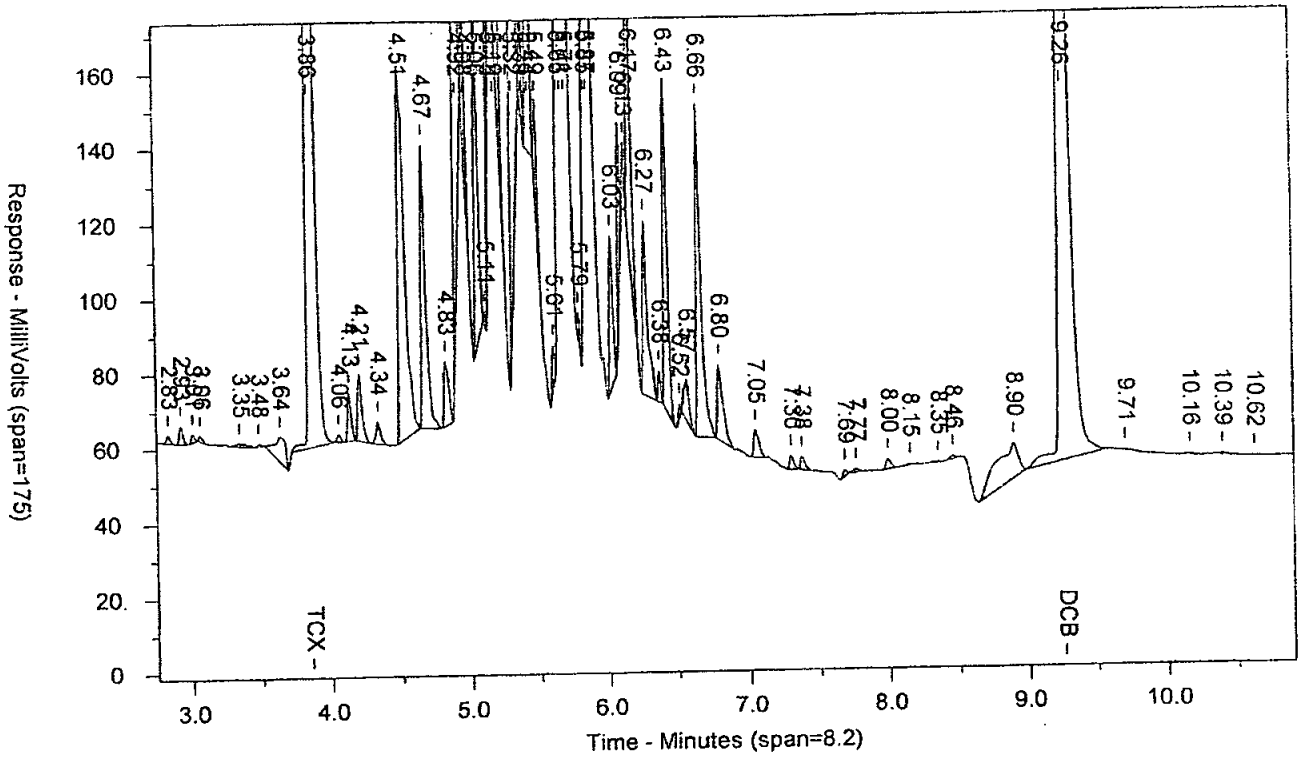

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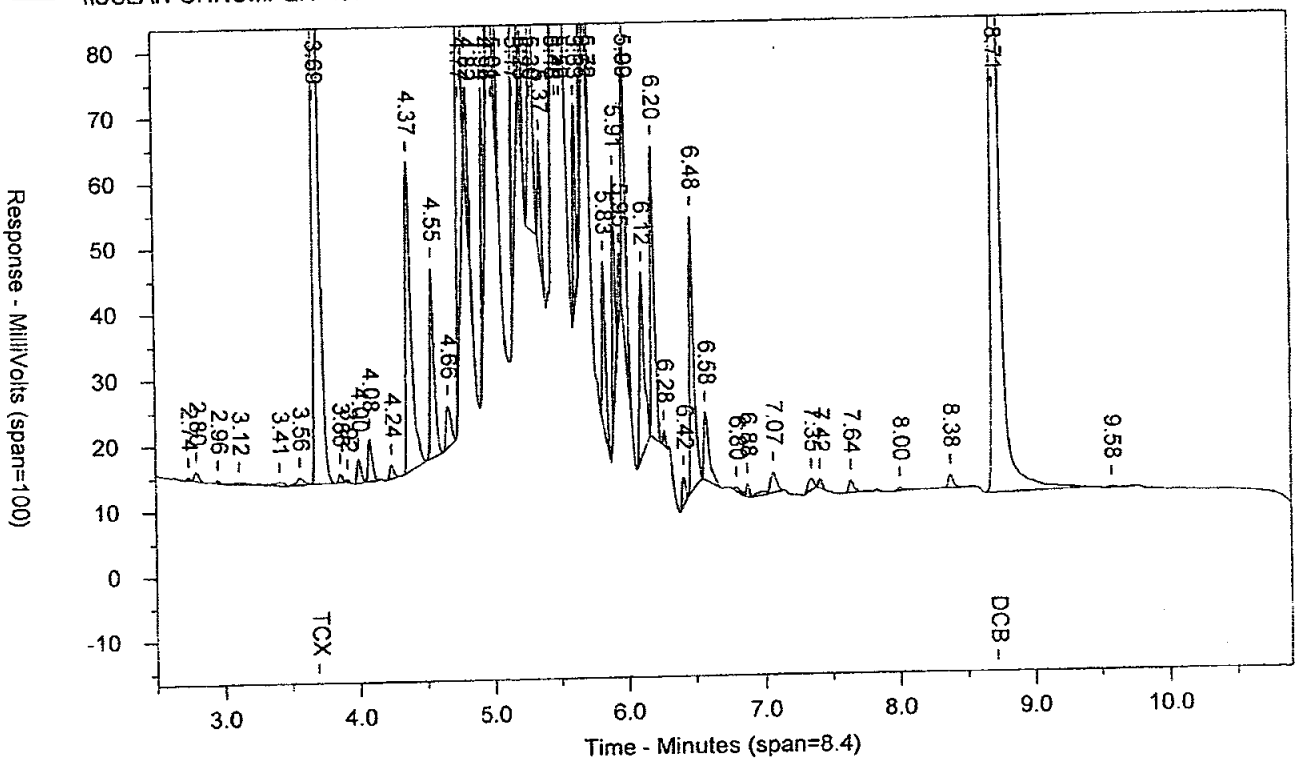

LANCASTER LABORATORIES

Sample Number: AR4851224A AAAR485AA ICAL 1218999999
Injected On: 7/8/2012 7:26:11 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.856	721721	67.551	TCX	3.695	287294	78	TCX
9.264	380104	74.592	DCB	8.715	254313	67.078	DCB

Files:
Area File: 1p7190.016.RAW
Area File: 1p7190B.016.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 7:37:06 PM
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ASX73 1311

AR4851224A AAAR485AA ICAL 1218999999 SW-846 8082

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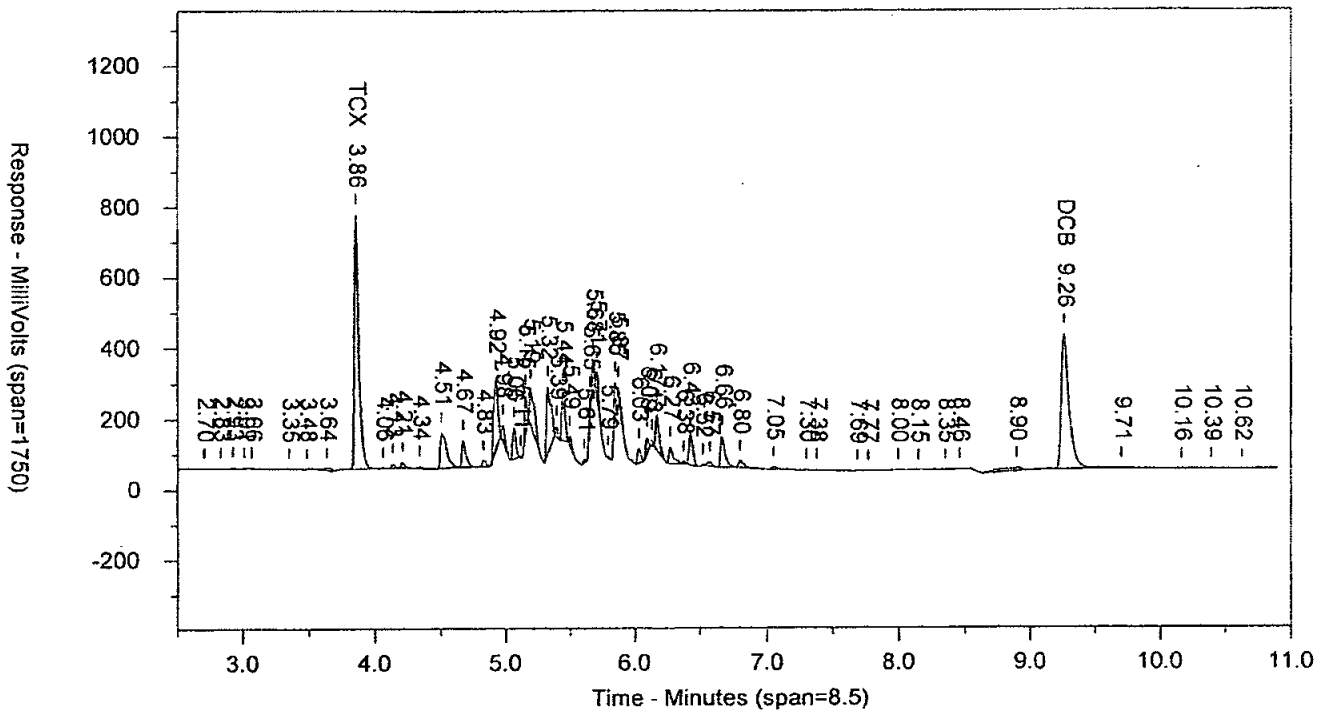

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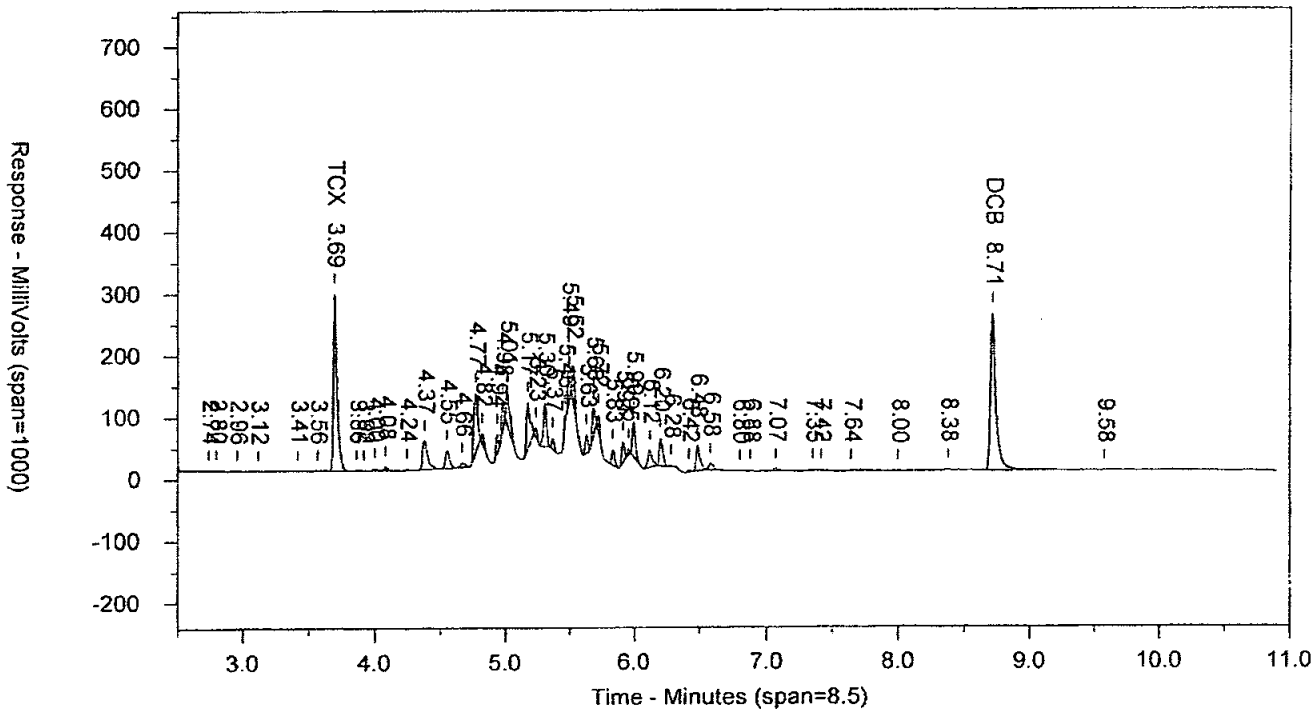

ASX73 1312

LANCASTER LABORATORIES

Sample Number: AR5411224A AAAR541AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 7:40:43 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.017.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.529		1034	2957
1.752		516	1568
1.885		607	2287
1.966		605	1751
2.054		452	851
2.159		997	6538
2.705		2827	7606
2.833		855	2649
3.01		2044	7976
3.334		1015	4815
3.484		715	1395
3.549		144	190
3.635		4719	17391
3.759		534	1756
3.856	TCX	49507	95991
4.13		512	712
4.204		211	496
4.283		423	499
4.506		367	780
4.694		266	1637
4.823		1177	6030
5.055		1504	12271
5.152		10723	33252
5.323		5796	13804
5.444		1929	3259
5.539		220	292
5.601		740	1147
5.654		15983	59513
5.797		2663	3770
5.85		18049	29635
5.89		3010	4012
6.028		6142	10766
6.092		11397	24731
6.167		21804	42856
6.269		2141	2666
6.317		7594	18259
6.424		17119	33784
6.568		11706	35333
6.659		11472	21619
6.744		796	1232
6.796		18011	48867
7.047		5294	13995
7.299		2985	6110
7.376		1936	3692
7.686		1601	2859
7.823		90	227
8.204		1215	11351
8.341		2635	12693
8.544		2292	22755
8.893		1031	20559
9.053		251	1403
9.261	DCB	29982	104017
10.085		387	3285

ASX73 1313

LANCASTER LABORATORIES

Sample Number: AR5411224A AAAR541AA ICAL 1218999999 Injection Volume: 1 uSW-846 8082
Injected On: 7/8/2012 7:40:43 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.017.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.594		19838	225258
2.641		804	2099
3.409		460	1517
3.564		1442	4203
3.695	TCX	14829	30659
4.465		217	750
4.657		325	654
4.721		251	326
4.979		4940	15013
5.17		2614	7235
5.303		767	1396
5.492		10021	20852
5.574		1209	1817
5.628		7123	10998
5.671		1251	1249
5.783		368	473
5.831		3232	6203
5.909		5453	8738
5.99		12405	28853
6.112		6032	13838
6.2		8228	17911
6.282		5350	12696
6.416		4639	8750
6.482		4100	6344
6.577		9558	25246
6.798		378	539
6.878		2210	3791
7.066		2124	7243
7.415		1449	4495
7.642		1022	5457
7.839		517	4832
7.992		217	1536
8.715	DCB	19255	53329
10.268		146	1391

ASX73 1314

AR5411224A AAAR541AA ICAL 1218999999 SW-846 8082

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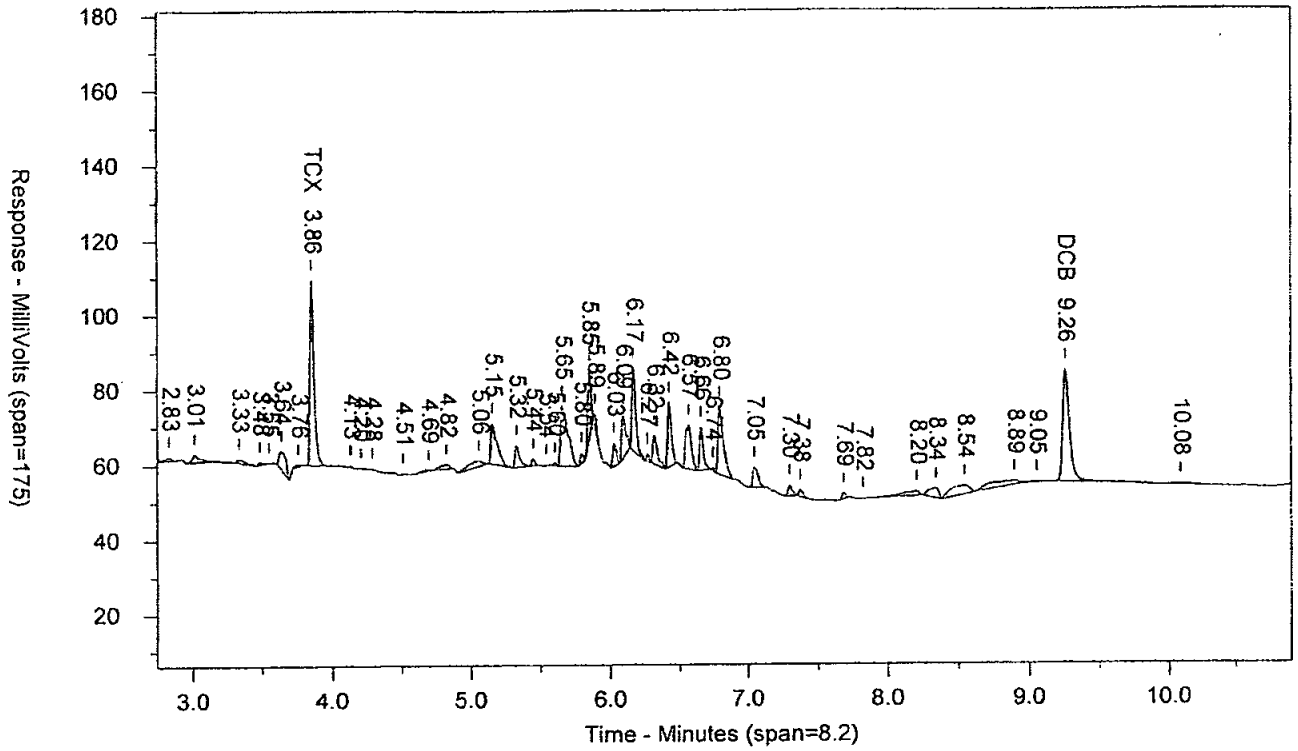

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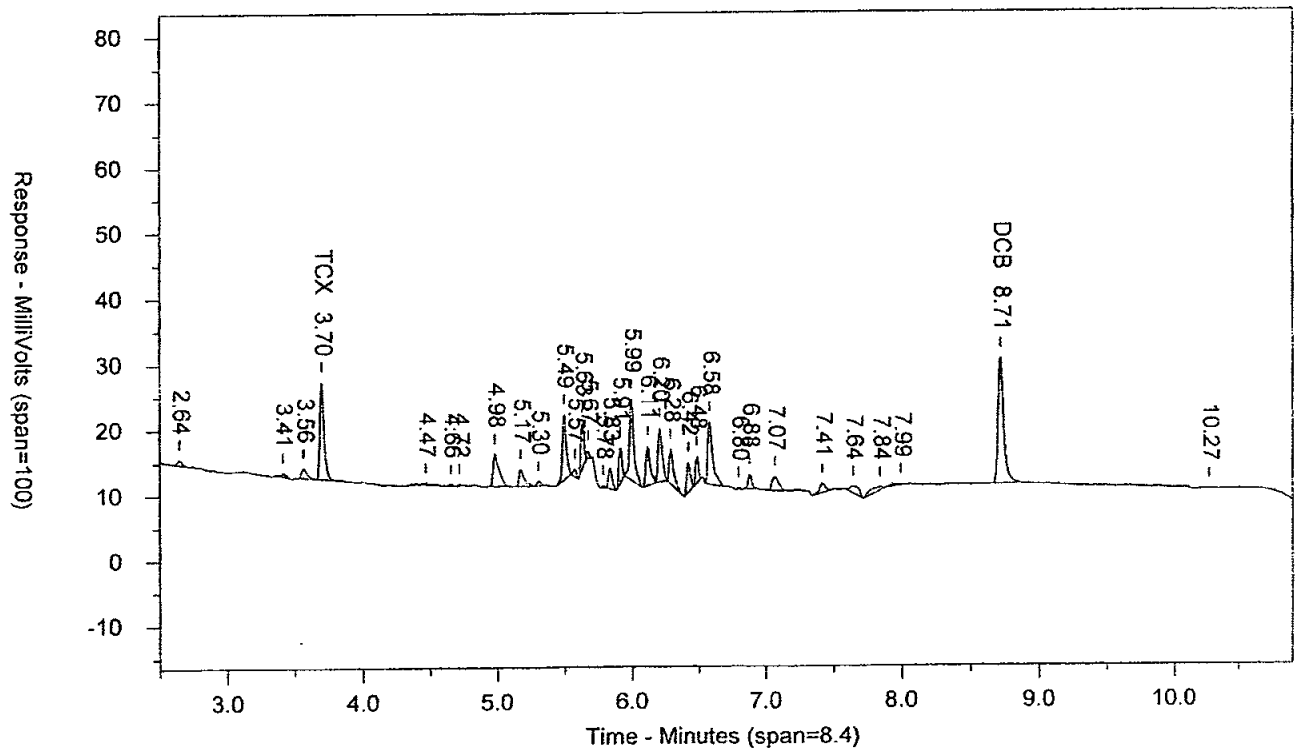

LANCASTER LABORATORIES

Sample Number: AR5411224A AAAR541AA ICAL 1218999999
Injected On: 7/8/2012 7:40:43 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: $W-846 8082
Dilution Factor: 1

Threshold: 3
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
3.856	49507	4.634	TCX	3.695	14829	4.026	TCX
9.261	29982	1.393	DCB	8.715	19255	5.079	DCB

Files:
Area File: 1p7190.017.RAW
Area File: 1p7190B.017.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 7:51:38 PM
File Reported On: 7/8/2012 at 7:51:43 PM

ASX73 1316

AR5411224A AAAR541AA ICAL 1218999999 SW-846 8082

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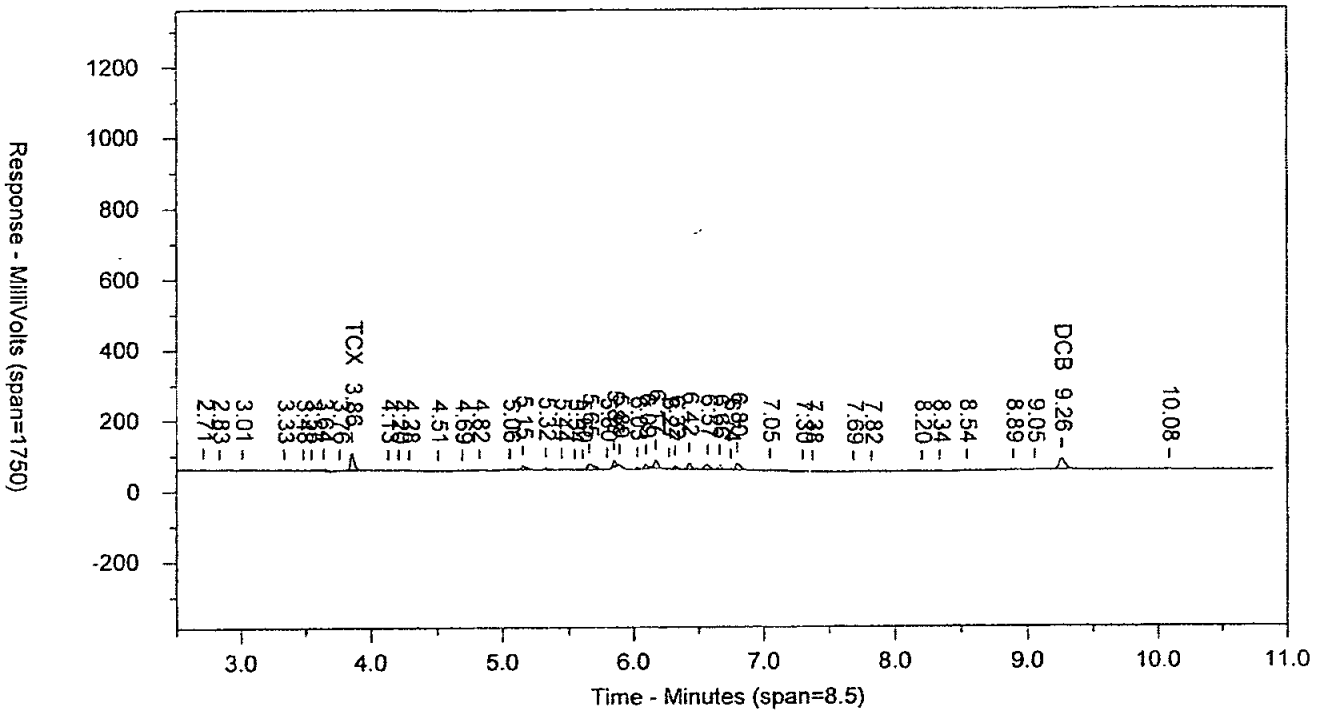

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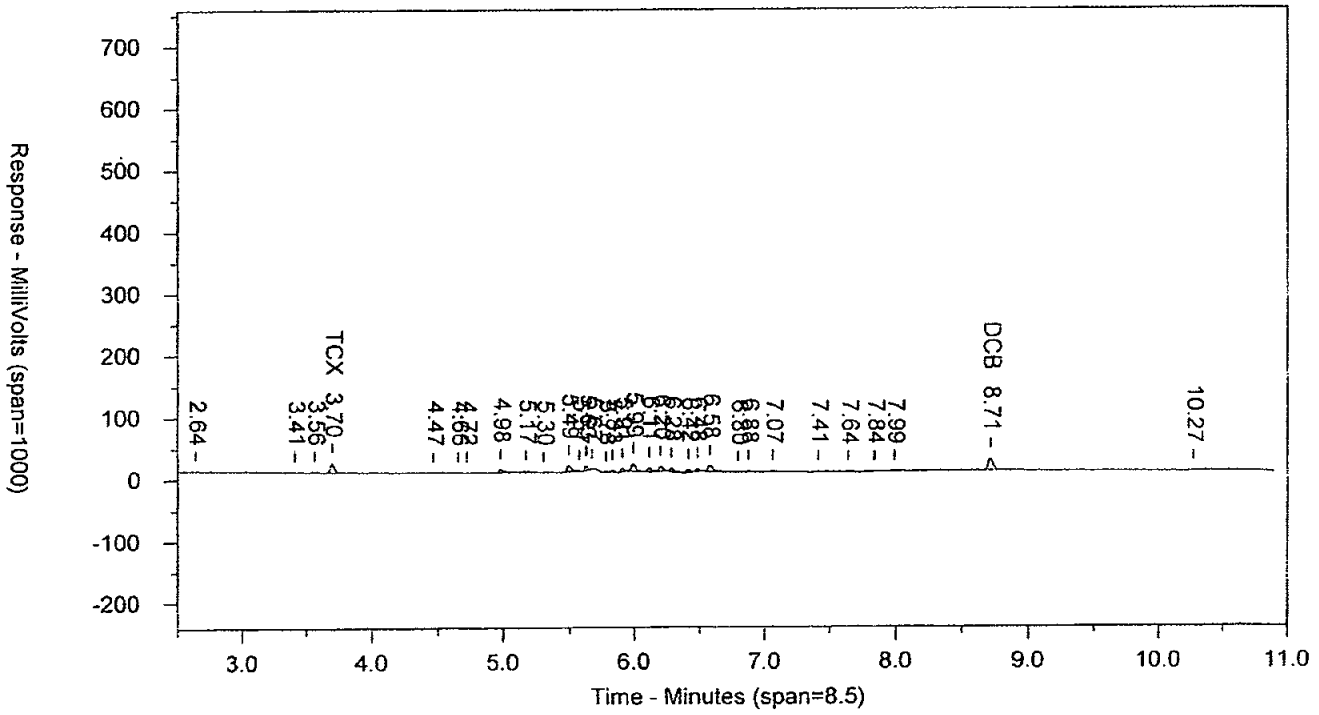

ASX73 1317

LANCASTER LABORATORIES

Sample Number: AR5421224A AAAR542AA ICAL 1218999999 Injection Volume:SW846 8082
Injected On: 7/8/2012 7:55:17 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.018.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.762		1126	3481
1.893		306	941
1.959		421	1286
2.059		284	626
2.16		807	6886
2.706		6569	15390
2.924		1443	2518
3.011		1266	2072
3.338		618	2035
3.483		1925	3655
3.636		4721	16604
3.749		326	804
3.856	TCX	219482	459706
4.133		2932	4914
4.206		272	545
4.284		352	375
4.506		410	824
4.67		295	524
4.816		1780	11409
5.058		1760	15837
5.153		20269	64036
5.324		11546	27778
5.445		3934	6662
5.604		884	1266
5.655		30759	119295
5.797		5243	7271
5.851		32306	53873
5.891		5877	7819
5.972		1216	1492
6.029		11767	20954
6.092		21529	47115
6.167		40705	81071
6.269		4226	5352
6.318		14120	34823
6.425		32280	64520
6.569		22186	67879
6.66		22269	42468
6.747		1615	2323
6.797		34035	96580
7.048		10519	28494
7.138		702	1028
7.188		655	964
7.3		5867	12214
7.377		3933	7754
7.685		3773	10727
7.998		758	1822
8.212		343	3064
8.349		542	2771
8.899		1121	20321
9.263	DCB	122874	471103

ASX73 1318

LANCASTER LABORATORIES

Sample Number: AR5421224A AAAR542AA ICAL 1218999999 Injection Volume: 1 uSW-846 8082
Injected On: 7/8/2012 7:55:17 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.018.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.596		16887	157617
2.643		1938	5079
3.36		374	677
3.565		1532	4327
3.696	TCX	78927	155127
3.996		833	1640
4.378		221	552
4.653		257	624
4.766		248	430
4.98		9380	28424
5.171		5027	12979
5.304		1545	2876
5.492		18991	38815
5.575		2292	3361
5.629		13616	20542
5.673		2360	2389
5.785		696	906
5.832		6201	12039
5.91		10741	16827
5.991		23856	54308
6.112		11324	25517
6.201		15814	34343
6.282		9874	20989
6.417		9848	18422
6.482		8107	12083
6.578		18603	48091
6.8		748	1089
6.878		4947	9674
7.066		4120	13546
7.415		2476	6532
7.643		705	2601
7.832		302	1521
8.375		517	1742
8.715	DCB	78809	237504

ASX73 1359

AR5421224A AAAR542AA ICAL 1218999999 SW-846 8082

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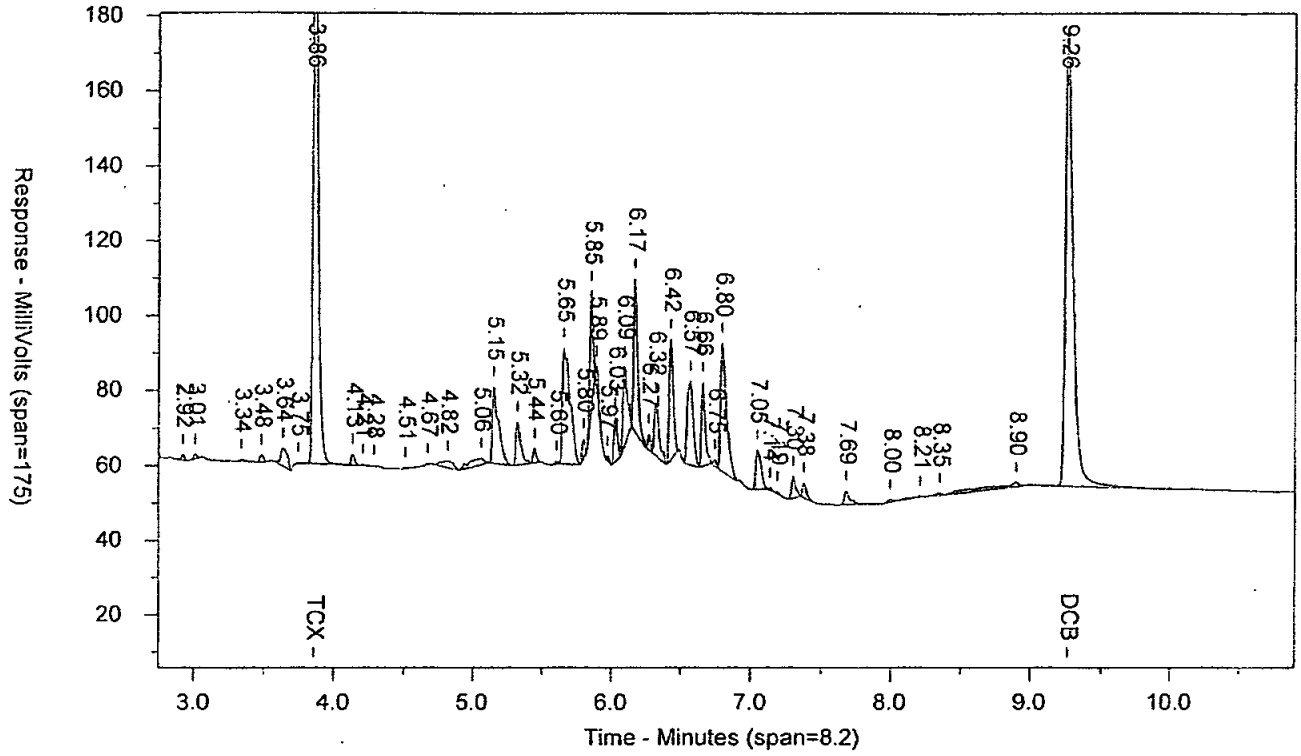

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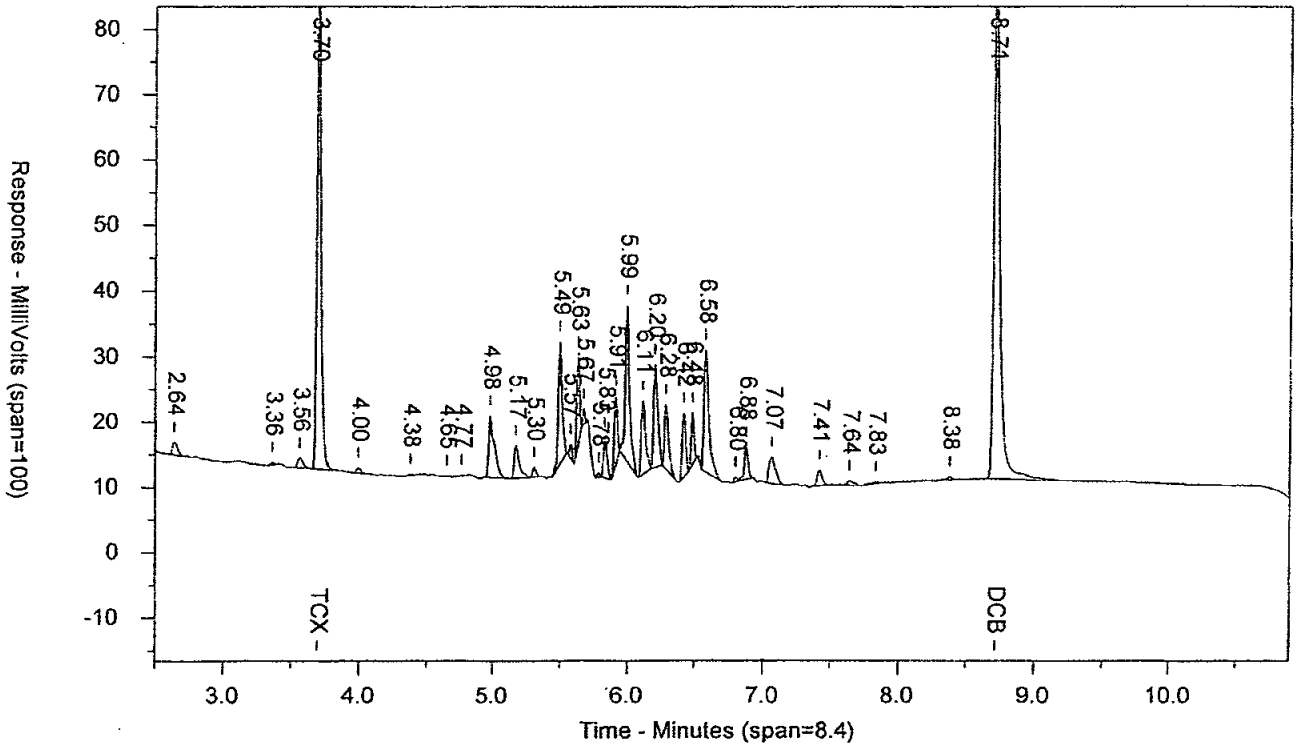

ASX73 1320

LANCASTER LABORATORIES

Sample Number: AR5421224A AAAR542AA ICAL 1218999999
Injected On: 7/8/2012 7:55:17 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: $W-846 8082
Dilution Factor: 1

Threshold: 3
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
3.856	219482	20.543	TCX	3.696	78927	21.428	TCX
9.263	122874	20.814	DCB	8.715	78809	20.787	DCB

Files:
Area File: 1p7190.018.RAW
Area File: 1p7190B.018.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 8:06:13 PM
File Reported On: 7/8/2012 at 8:06:19 PM

ASX73 1321

AR5421224A AAAR542AA ICAL 1218999999 SW-846 8082

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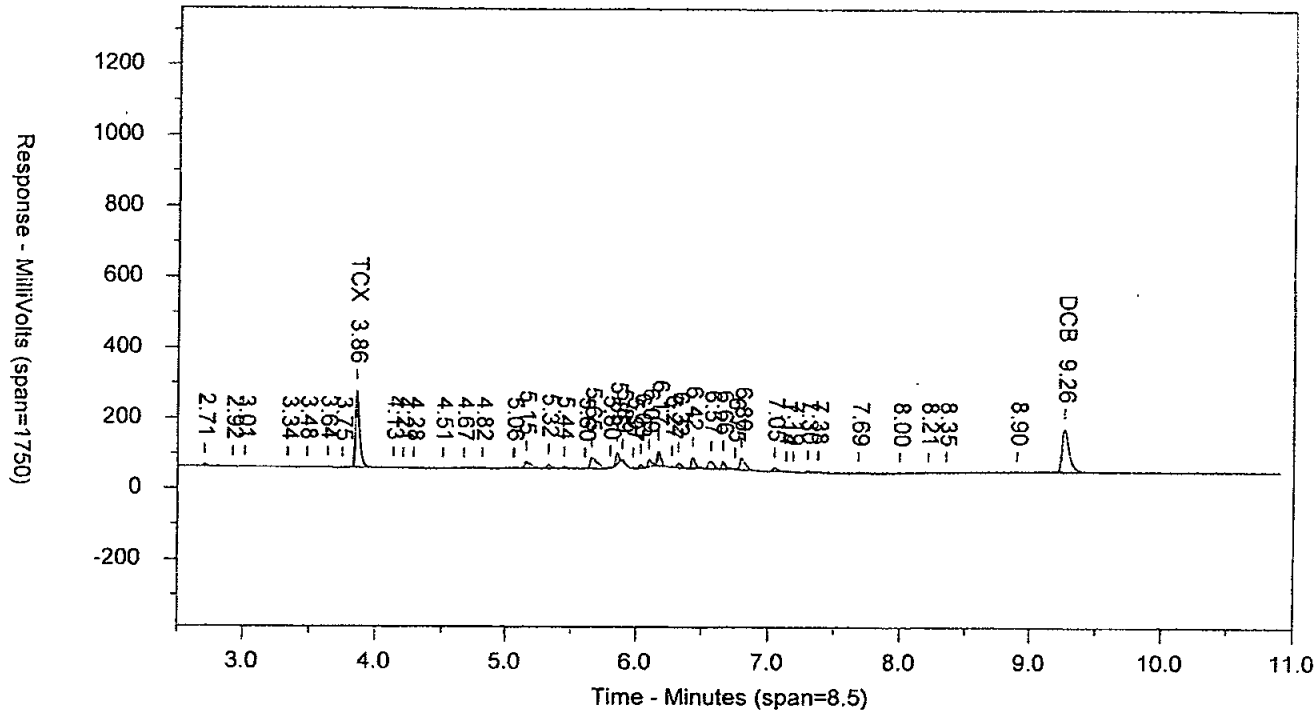

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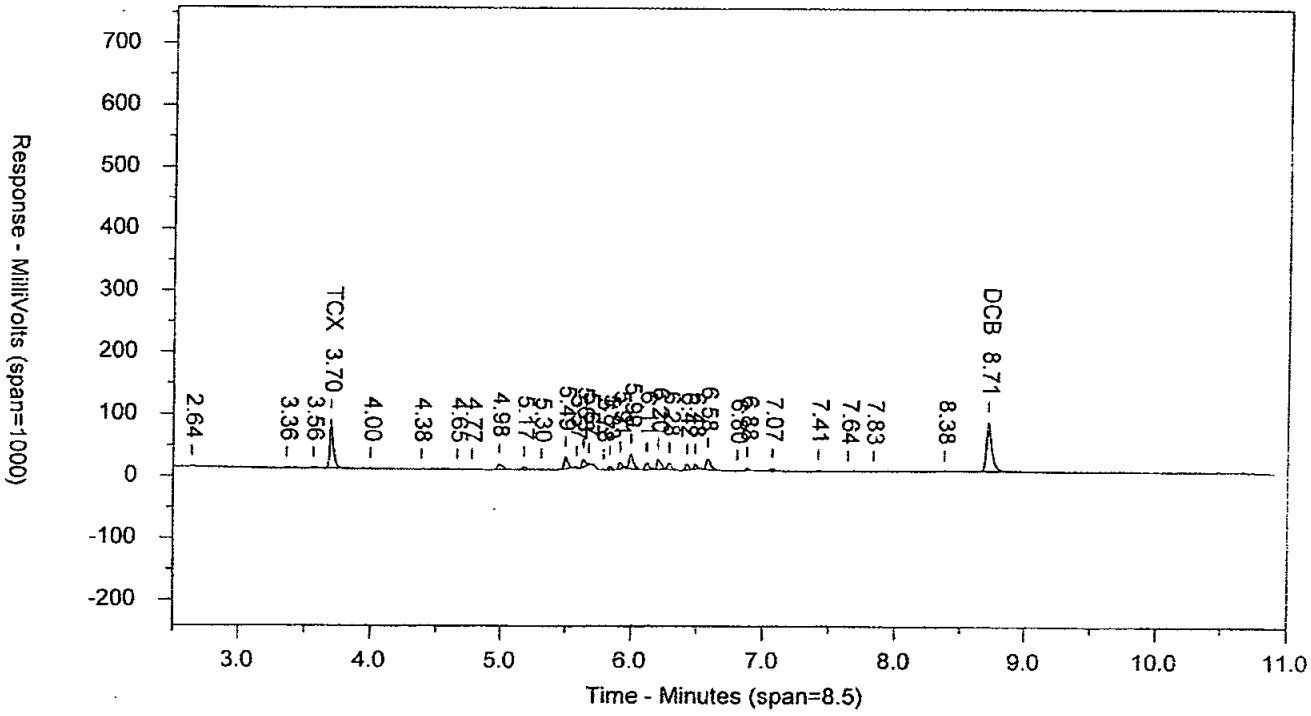

ASX73 1322

LANCASTER LABORATORIES

Sample Number: AR5431224A AAAR543AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 8:09:48 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.019.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.523		1027	2838
1.756		778	2361
1.885		961	3108
2.058		470	1149
2.167		785	5232
2.744		362	780
2.831		605	2114
2.924		2634	3974
3.01		2255	3773
3.061		593	1000
3.338		858	3892
3.582		374	1832
3.635		6396	23072
3.855	TCX	401528	875741
4.131		5824	9656
4.204		741	2092
4.314		482	695
4.448		420	920
4.506		1186	3038
4.667		1438	4010
4.752		494	683
4.82		686	1799
4.872		720	738
4.931		1564	3169
4.981		653	979
5.059		1355	3250
5.152		46557	152701
5.323		27153	66354
5.443		9349	15847
5.605		1428	1908
5.653		24396	31003
5.672		8709	8520
5.796		12010	16736
5.849		69977	116531
5.889		13727	18420
5.971		2740	3213
6.027		26649	47498
6.091		48248	106828
6.166		89693	185558
6.268		9236	11500
6.316		30957	77295
6.423		75416	184007
6.568		49371	153297
6.658		51496	100273
6.746		3865	5508
6.795		77051	226703
6.915		1177	2132
7.047		24880	68749
7.136		1712	2385
7.188		1636	2506
7.299		14158	29314
7.375		9215	18601
7.685		9034	25894

ASX73 1323

RT A	Compound A	Height A	Area A
7.996		1378	3320
8.103		344	668
8.199		491	1328
8.347		1052	5797
8.458		444	1278
8.896		1684	8829
9.26	DCB	212520	861698
10.168		250	904
10.341		133	1493

ASX73 1324

LANCASTER LABORATORIES

Sample Number: AR5431224A AAAR543AA ICAL 1218999999 Injection Volume: 1 uSW-846 8082
Injected On: 7/8/2012 8:09:48 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.019.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.59		22277	241113
2.74		430	699
2.798		542	1185
3.121		288	1835
3.413		558	1947
3.564		2087	6933
3.695	TCX	152694	300486
3.996		1644	3236
4.378		545	1329
4.455		328	1017
4.654		562	1283
4.766		764	1848
4.978		21846	67437
5.17		11685	29569
5.305		3803	7060
5.491		43989	86629
5.574		5445	8147
5.627		31425	44647
5.672		5896	6017
5.783		1721	2191
5.832		14659	27765
5.909		25958	39305
5.989		56013	126099
6.111		26280	58022
6.199		37166	78617
6.281		22769	47329
6.416		23486	42453
6.482		20027	29321
6.577		44189	113075
6.799		1881	2755
6.878		12148	23500
6.974		614	1306
7.065		10120	32610
7.414		6015	15369
7.639		1177	4024
7.833		423	2305
8		248	487
8.375		969	2717
8.713	DCB	140502	420677

ASX73 1325

AR5431224A AAAR543AA ICAL 1218999999 SW-846 8082

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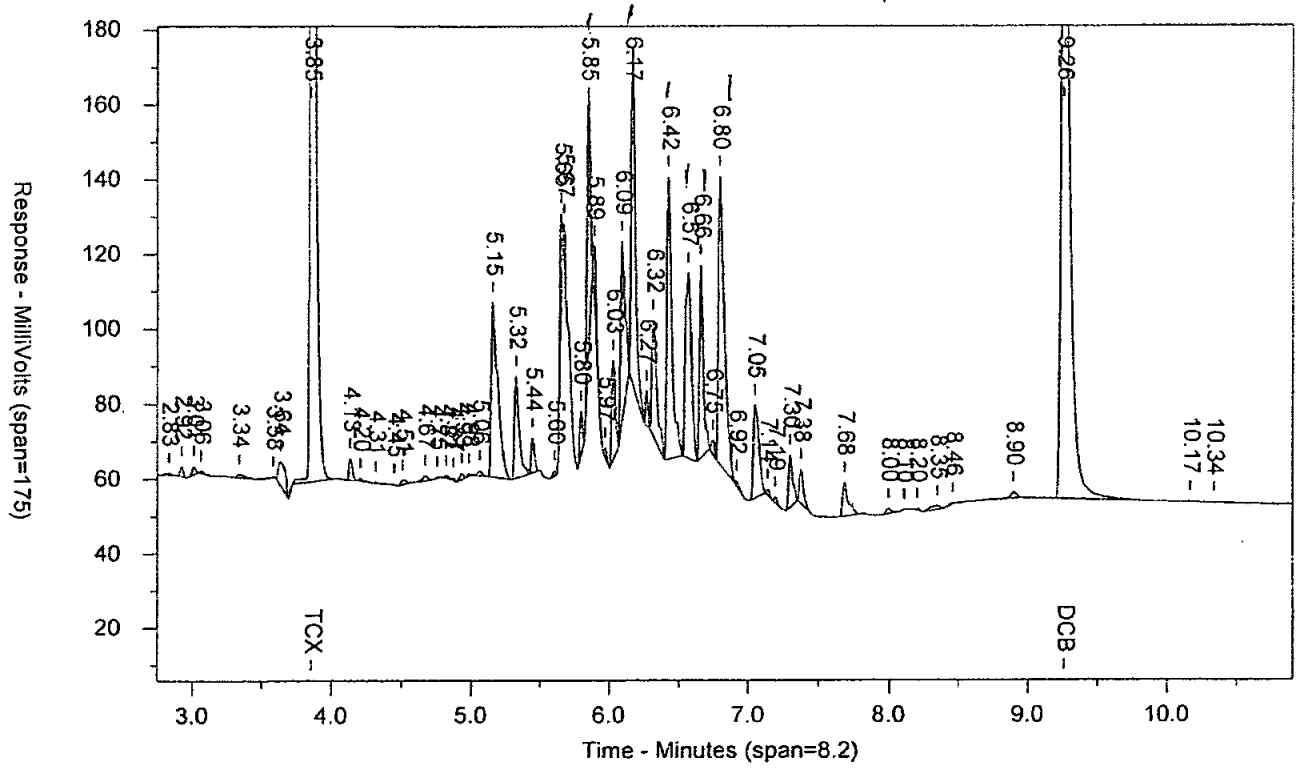

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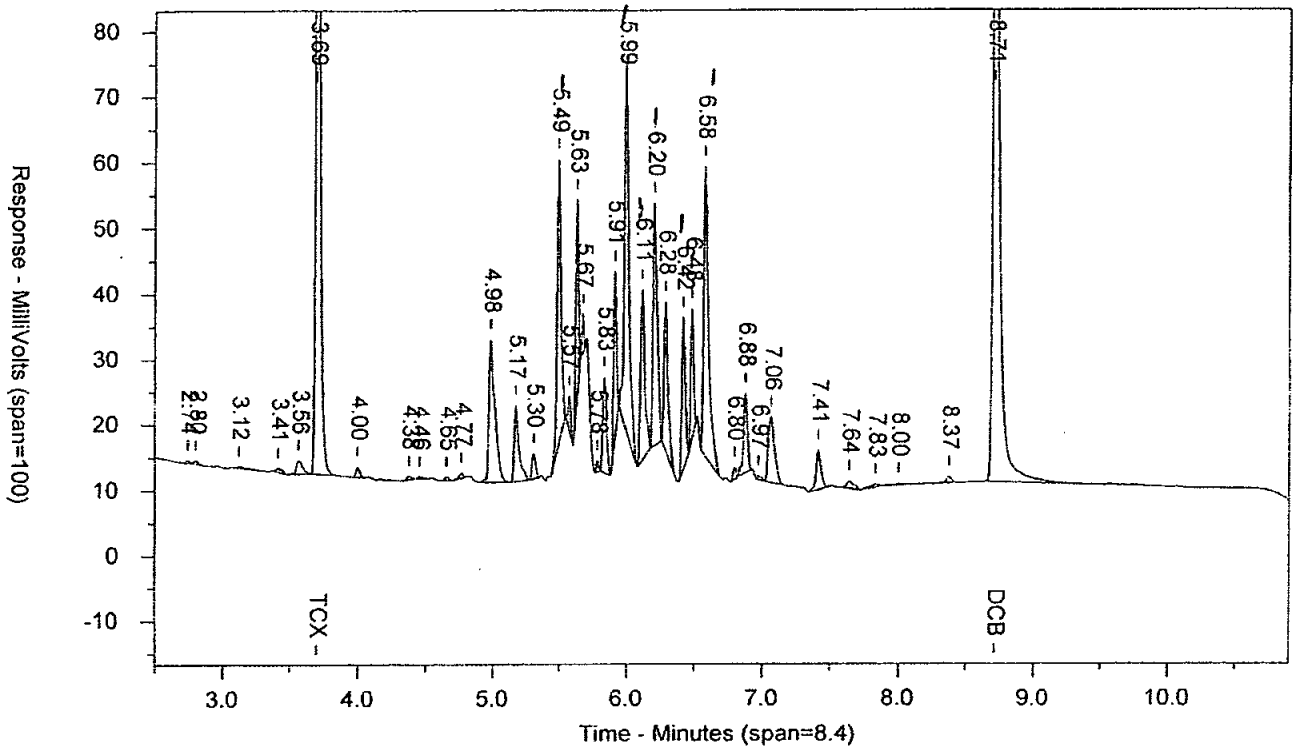

LANCASTER LABORATORIES

Sample Number: AR5431224A AAAR543AA ICAL 1218999999
Injected On: 7/8/2012 8:09:48 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.855	401528	37.582	TCX	3.695	152694	41.456	TCX
9.26	212520	39.556	DCB	8.713	140502	37.059	DCB

Files:
Area File: 1p7190.019.RAW
Area File: 1p7190B.019.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 8:20:43 PM
File Reported On: 7/8/2012 at 8:20:49 PM

ASX73 1327

AR5431224A AAAR543AA ICAL 1218999999 SW-846 8082

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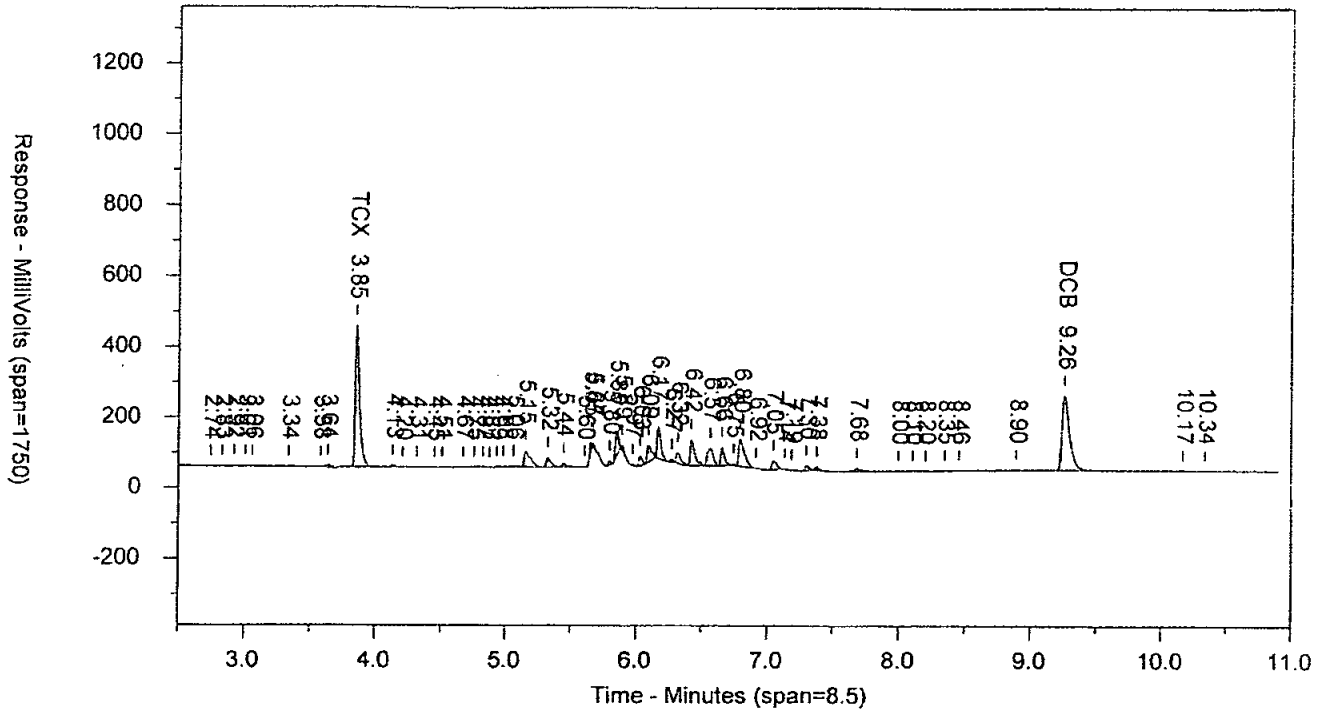

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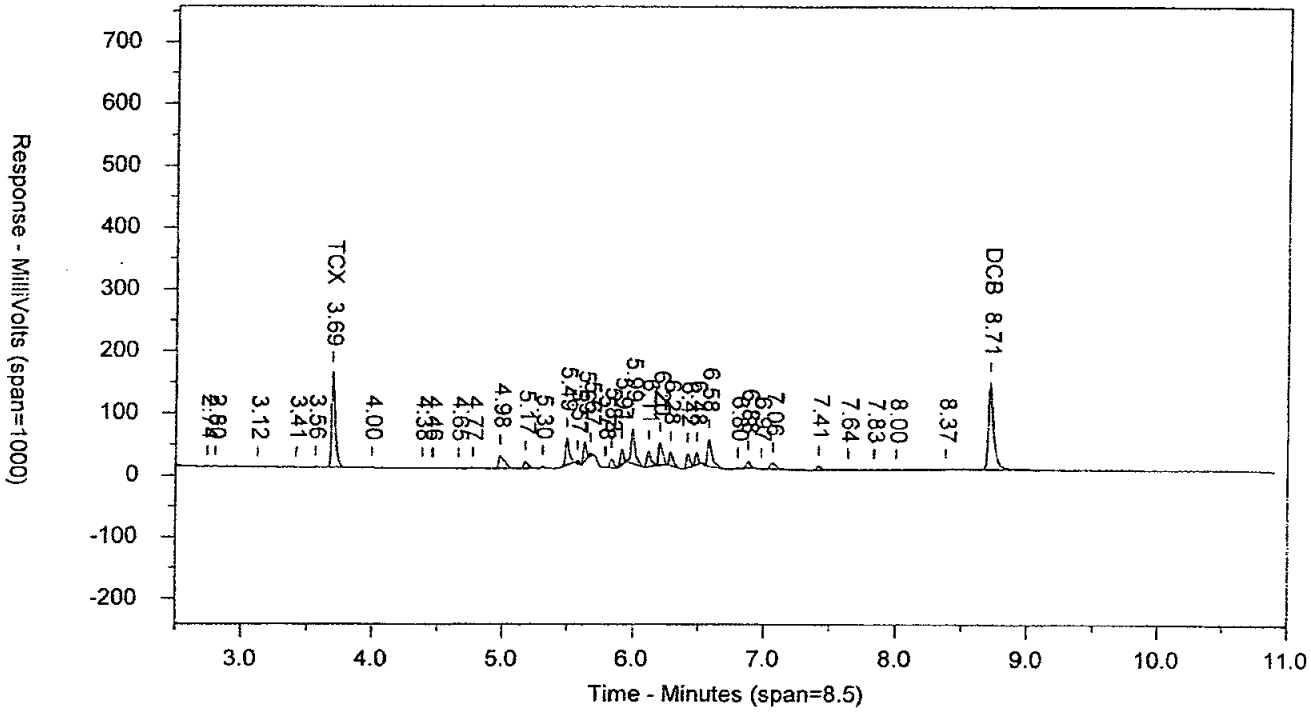

ASX73 1320

LANCASTER LABORATORIES

Sample Number: AR5441224A AAAR544AA ICAL 1218999999 Injection Volume:STW846 8082
Injected On: 7/8/2012 8:24:23 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.020.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.751		378	741
1.965		640	3656
2.058		448	1114
2.163		775	5365
2.708		991	2921
2.833		666	2010
2.926		3737	6422
3.012		1320	2029
3.065		1241	2228
3.346		664	3035
3.487		273	550
3.637		5034	14954
3.745		224	442
3.856	TCX	590252	1311260
4.133		9178	15536
4.205		1495	2771
4.314		1051	1500
4.507		2352	6314
4.67		2176	4960
4.755		562	830
4.823		1364	5014
4.93		4482	10738
4.979		1325	1964
5.061		2176	3692
5.153		87940	298005
5.324		52592	132354
5.445		18398	31417
5.607		2944	4004
5.654		133207	561761
5.797		22707	31706
5.85		132870	218796
5.891		23729	33762
5.972		4960	6074
6.029		50391	89786
6.092		93107	206568
6.166		171176	361217
6.269		17906	22573
6.317		57732	145369
6.424		142140	357336
6.569		91636	289589
6.659		101422	201667
6.747		6956	9952
6.796		146536	447460
7.048		49165	140080
7.138		3453	4778
7.189		3503	5412
7.3		28164	60215
7.377		18593	38209
7.685		18608	60483
7.997		2307	5712
8.102		742	1292
8.146		225	342
8.347		959	4780

ASX73 1329

RT A	Compound A	Height A	Area A
8.456		1022	2508
8.899		2704	11976
9.261	DCB	309545	1282585
10.171		388	1332
10.35		228	1461

ASX73 1330

LANCASTER LABORATORIES

Sample Number: AR5441224A AAAR544AA ICAL 1218999999
Injected On: 7/8/2012 8:24:23 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.020.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.591		17320	183206
2.799		896	2082
2.954		348	784
3.415		319	955
3.565		2006	5931
3.695	TCX	232804	461355
3.997		2589	5174
4.079		556	1204
4.161		324	565
4.38		1137	2838
4.548		750	1610
4.65		572	1506
4.768		1849	3933
4.978		42253	130143
5.171		23861	58910
5.305		7930	14625
5.365		994	1359
5.421		776	1056
5.491		85454	166425
5.574		10631	15555
5.627		60764	81594
5.671		11952	12139
5.699		10175	14278
5.784		3471	4407
5.832		28755	53818
5.91		52278	76348
5.955		2412	2220
5.989		103006	205704
6.111		51125	110485
6.199		73151	150519
6.281		43450	89521
6.416		46815	82080
6.482		42836	60651
6.523		4932	5311
6.576		87318	224906
6.74		922	1295
6.8		3838	5634
6.879		26479	58944
6.975		1291	2701
7.065		20733	67197
7.415		11956	30190
7.641		1308	2623
7.833		573	2539
8.001		575	1316
8.375		1530	4288
8.713	DCB	204313	614963
9.58		201	491

ASX73 1331

AR5441224A AAAR544AA ICAL 1218999999 SW-846 8082

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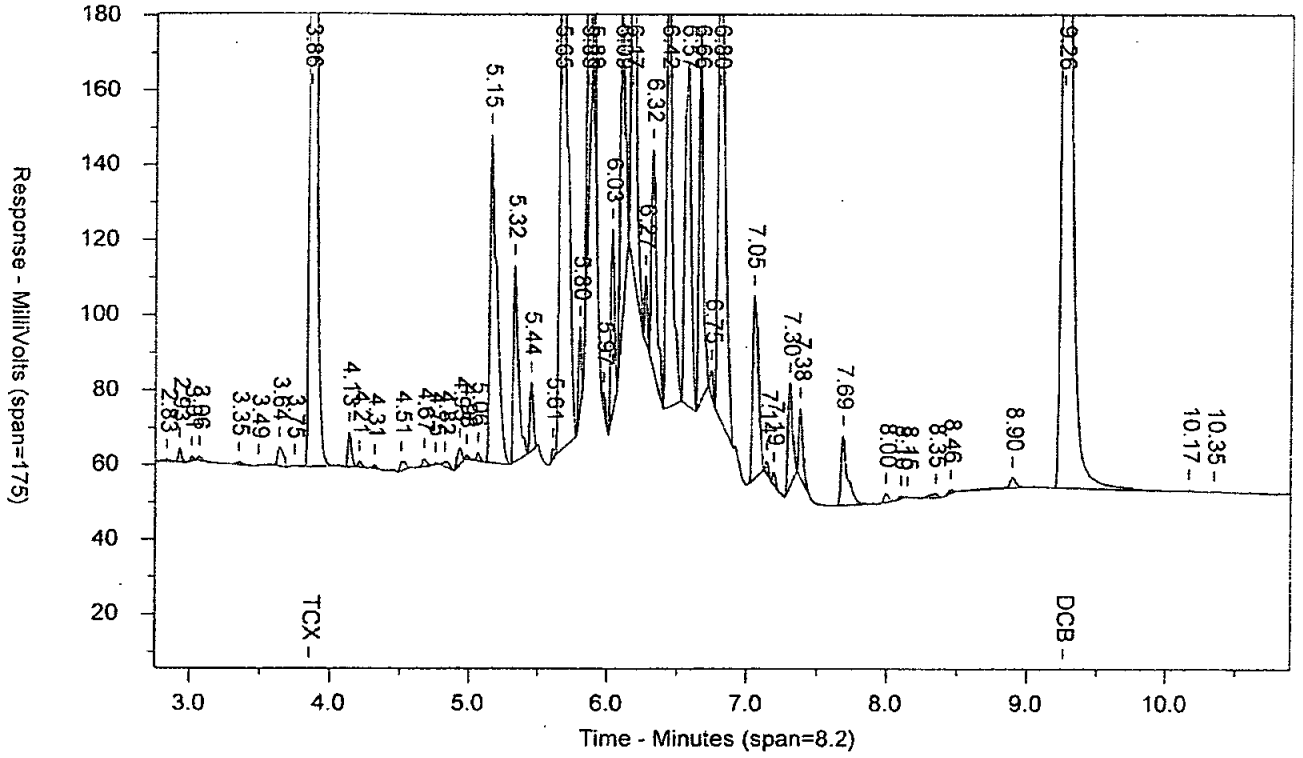

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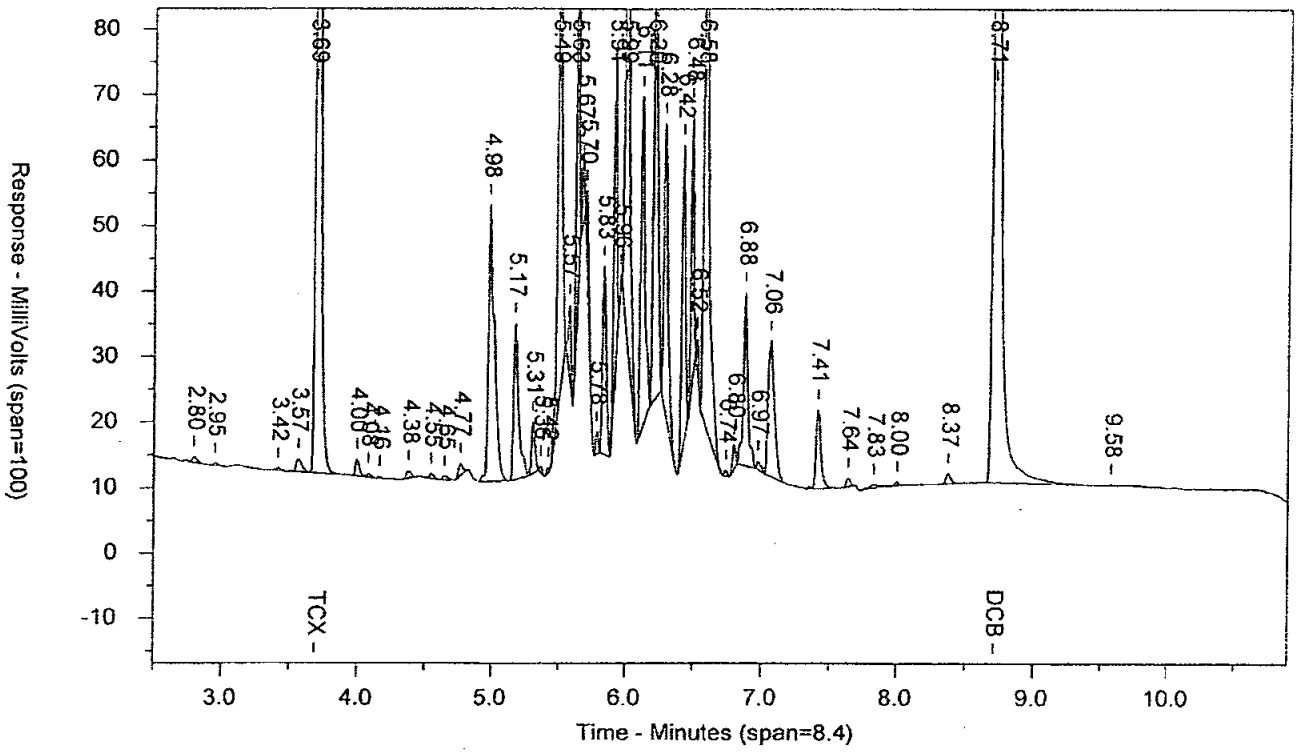

ASX73 1332

LANCASTER LABORATORIES

Sample Number: AR5441224A AAAR544AA ICAL 1218999999
Injected On: 7/8/2012 8:24:23 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: $W-846 8082
Dilution Factor: 1

Threshold: 3
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
3.856	590252	55.246	TCX	3.695	232804	63.206	TCX
9.261	309545	59.84	DCB	8.713	204313	53.89	DCB

Files:
Area File: 1p7190.020.RAW
Area File: 1p7190B.020.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 8:35:18 PM
File Reported On: 7/8/2012 at 8:35:25 PM

ASX73 1333

AR5441224A AAAR544AA ICAL 1218999999 SW-846 8082

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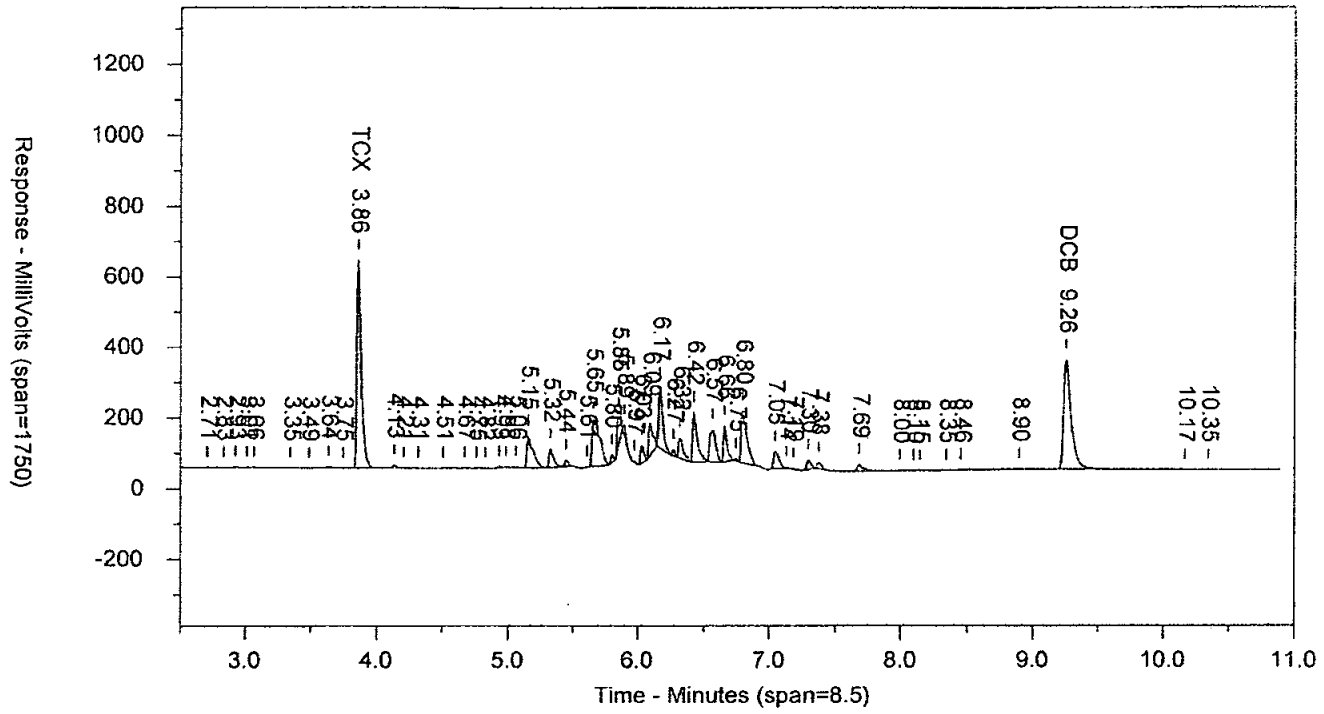

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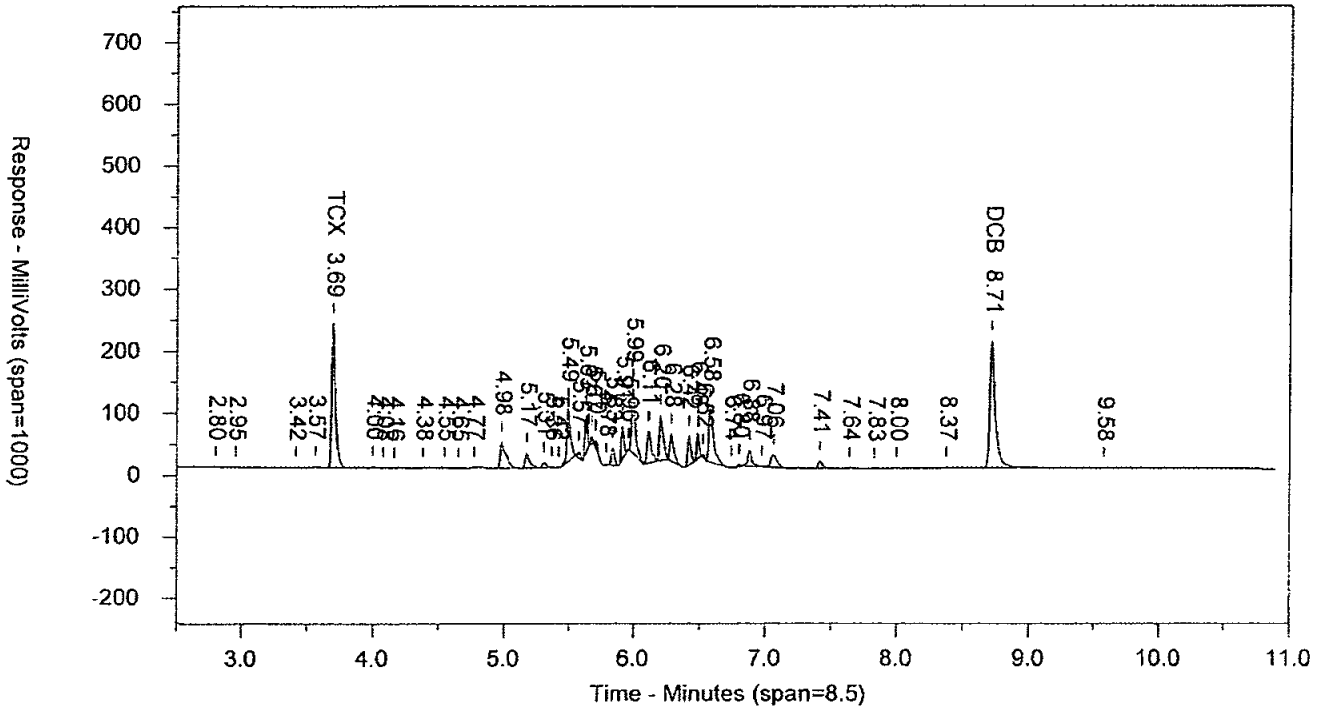


ASX73 1334

LANCASTER LABORATORIES

Sample Number: AR5451224A AAAR545AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 8:38:57 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.021.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.529		1003	4112
1.755		499	1219
1.869		528	1757
1.969		715	2651
2.063		830	3129
2.158		1383	16244
2.444		466	2986
2.708		1643	4353
2.833		502	1536
2.926		4782	8410
3.012		959	1434
3.065		1715	3232
3.349		487	2382
3.486		380	705
3.637		4339	12705
3.745		158	290
3.856	TCX	727525	1646362
4.057		389	726
4.134		11624	19934
4.207		2820	5265
4.316		1411	2359
4.508		1485	1995
4.671		3907	8179
4.755		700	1178
4.825		1752	5508
4.93		8623	21140
4.979		2430	3657
5.062		3941	6755
5.153		151214	520506
5.324		91605	235640
5.445		32706	55769
5.496		2637	3202
5.608		4975	6755
5.655		229204	981754
5.797		39031	53552
5.85		229356	373806
5.891		46102	60198
5.972		7682	9492
6.029		85535	152251
6.093		159971	355374
6.167		295409	628538
6.269		30809	38813
6.317		98510	247808
6.424		245449	627834
6.57		156373	492057
6.661		177800	365130
6.747		11798	16495
6.797		254958	833686
7.049		87618	253852
7.139		5464	7608
7.191		6281	9761
7.301		50919	110360
7.378		32914	69262

ASX73 1335

RT A	Compound A	Height A	Area A
7.687		34104	112715
7.997		3077	7993
8.102		1489	2614
8.147		433	1526
8.352		695	3958
8.456		1935	5041
8.554		151	319
8.9		3770	20613
9.264	DCB	382205	1595425
10.173		497	1730
10.349		289	1890

ASX73 1336

LANCASTER LABORATORIES

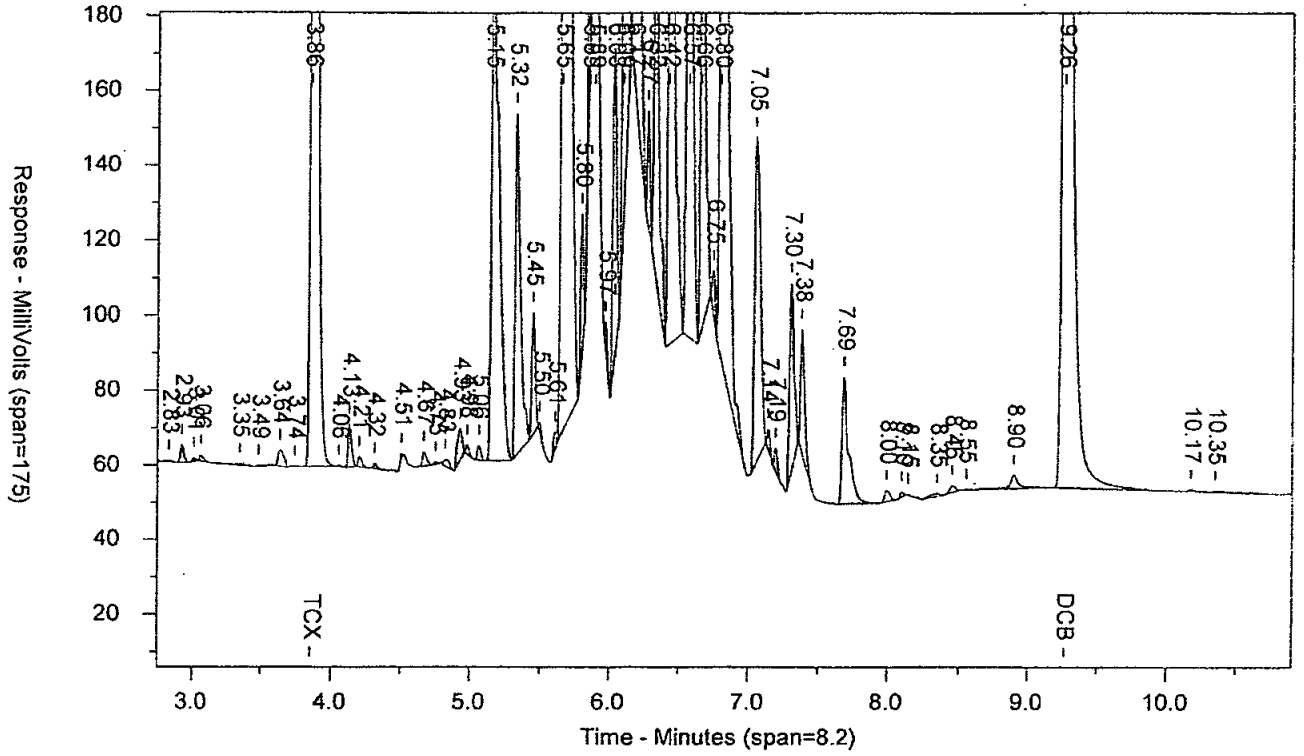
Sample Number: AR5451224A AAAR545AA ICAL 1218999999 Injection Volume: 1 uSW-846 8082
Injected On: 7/8/2012 8:38:57 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 1p7190B.021.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.596		18859	203651
2.643		481	1236
2.801		1127	2726
2.956		455	1037
3.566		1764	5289
3.695	TCX	291668	583929
3.998		3349	6657
4.08		1032	2241
4.161		404	692
4.38		2147	5402
4.549		1403	3032
4.654		749	2179
4.769		3562	7500
4.936		794	942
4.978		72531	215316
5.171		42863	105157
5.306		14709	26670
5.365		1831	2506
5.422		1469	1968
5.491		152165	295367
5.574		17126	22459
5.627		107670	142585
5.671		22902	23488
5.7		18712	26498
5.784		6401	8014
5.832		50896	93679
5.909		95494	134029
5.954		6118	5671
5.989		182156	358232
6.111		89134	190570
6.199		129132	263380
6.281		76803	155550
6.416		84106	142871
6.482		80626	111503
6.523		9219	9863
6.576		155663	401231
6.741		1705	2406
6.801		7077	10191
6.878		48658	107949
6.976		2446	5090
7.065		38165	124100
7.354		403	583
7.416		22293	53181
7.642		1635	3212
7.7		680	975
7.832		674	1743
8		1112	2806
8.376		1960	4683
8.714	DCB	250895	756982
9.582		253	620

ASX73 1337

AR5451224A AAAR545AA ICAL 1218999999 SW-846 8082

—— \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7190.021.RAW



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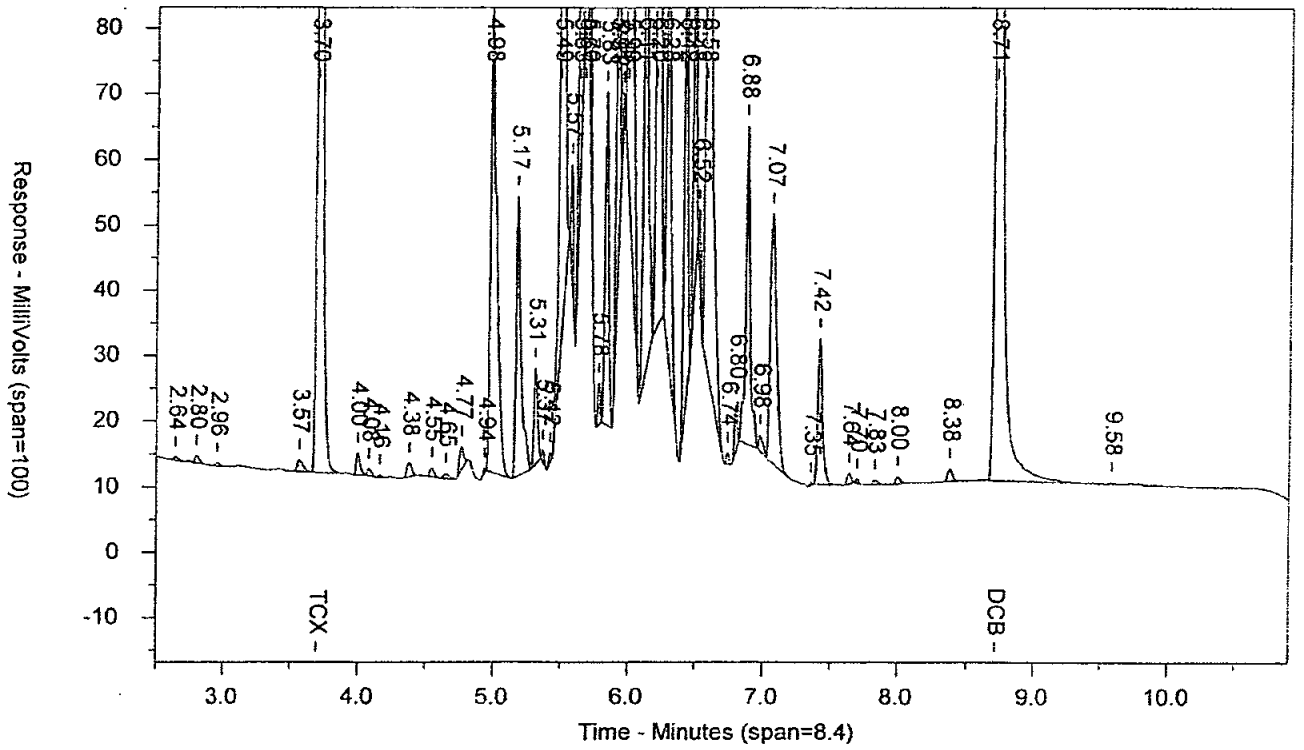

ASX73 1338

LANCASTER LABORATORIES

Sample Number: AR5451224A AAAR545AA ICAL 1218999999
Injected On: 7/8/2012 8:38:57 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: $W-846 8082
Dilution Factor: 1

Threshold: 3
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
3.856	727525	68.094	TCX	3.695	291668	79.187	TCX
9.264	382205	75.031	DCB	8.714	250895	66.176	DCB

Files:
Area File: 1p7190.021.RAW
Area File: 1p7190B.021.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 8:49:52 PM
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ASX73 1339

AR5451224A AAAR545AA ICAL 1218999999 SW-846 8082

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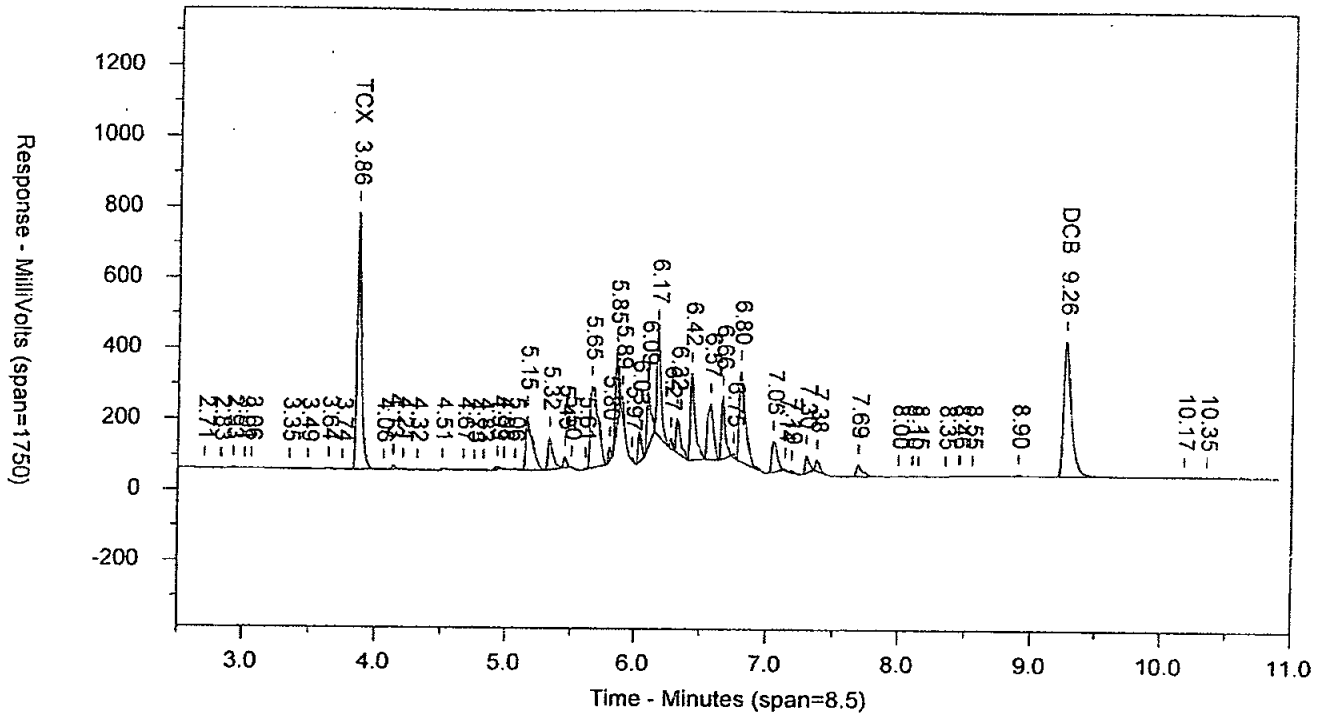

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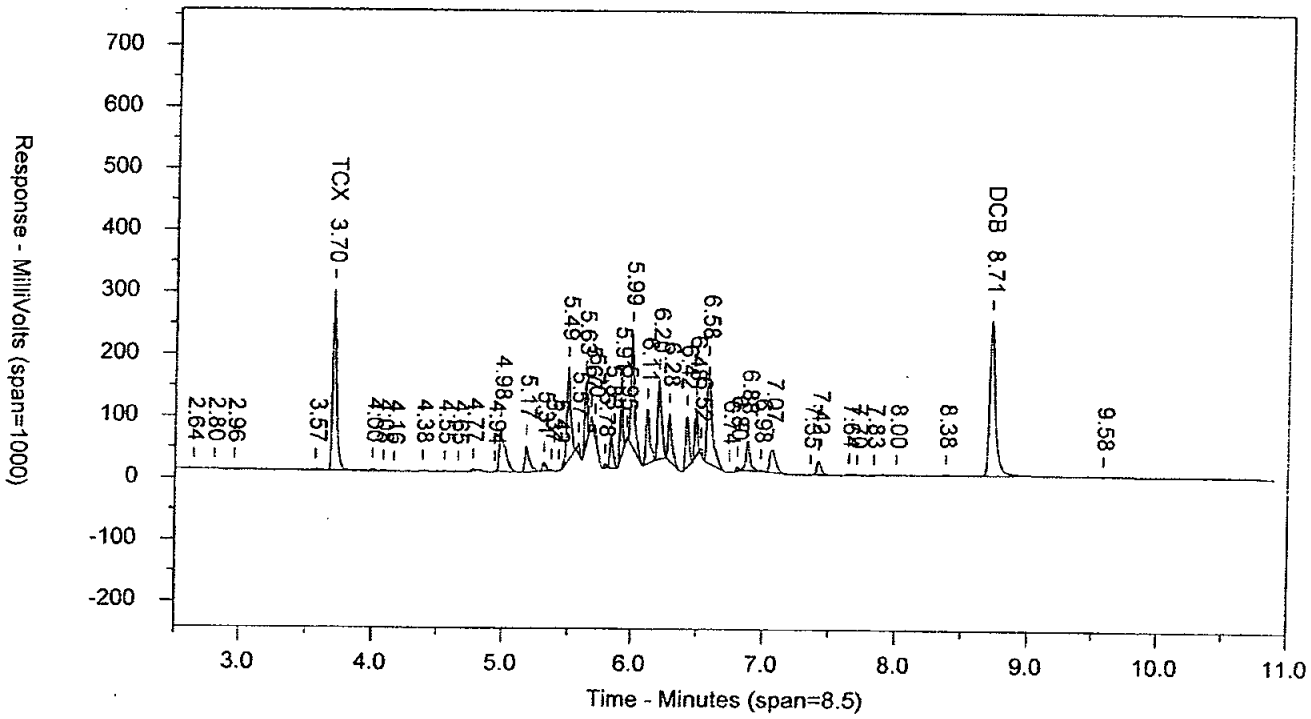

ASX73 1349

LANCASTER LABORATORIES

Sample Number: AR6231224A AAAR623AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 8:53:31 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.022.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.759		518	1506
1.882		187	520
2.159		792	10438
2.715		1330	3834
3.011		1471	6219
3.35		747	5336
3.494		745	1810
3.635		4088	13686
3.748		378	973
4.205		1264	2606
4.333		215	645
4.505		1500	4003
4.669		1688	4292
4.823		639	1966
4.873		2337	2761
4.925		1745	2807
4.98		1069	1736
5.059		1516	3624
5.152		1165	1563
5.323		1305	3061
5.444		949	1727
5.603		741	1247
5.653		9757	23781
5.797		666	957
5.851		13159	36481
6.028		782	1352
6.112		9024	17546
6.165		3143	4252
6.225		34225	92396
6.316		52130	124924
6.42		2361	3589
6.49		5913	9941
6.551		54527	113094
6.61		14946	20544
6.657		15649	35945
6.751		998	867
6.794		48836	102740
6.869		62050	102056
6.916		18083	27392
7.067		60734	154627
7.138		21152	66345
7.3		10066	18556
7.376		140619	415500
7.68		78558	168182
7.768		43323	112255
7.994		4953	11972
8.148		23744	71674
8.351		333	1239
8.454		54941	149543
8.546		1504	2708
8.897		23507	72911
9.262	DCB	623	2065

ASX73 1341

LANCASTER LABORATORIES

Sample Number: AR6231224A AAAR623AA ICAL 1218999999 Injection Volume: 1 uSW-846 8082
Injected On: 7/8/2012 8:53:31 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.022.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.596		19645	232840
2.646		367	1036
3.118		325	2263
3.415		437	2240
3.564		1372	4662
4.079		390	852
4.379		772	1935
4.548		553	1246
4.661		245	499
4.722		884	1169
4.769		751	1255
4.828		622	1398
4.933		365	503
4.979		410	534
5.172		752	2614
5.303		373	701
5.492		5369	12396
5.629		5907	15901
5.909		737	1183
6.004		20962	67425
6.108		29207	61592
6.225		2924	4918
6.282		34534	75580
6.418		31689	60438
6.484		2425	2862
6.529		6338	8362
6.576		8785	9941
6.61		34019	48019
6.656		11018	14968
6.783		7717	12791
6.844		41887	81672
6.932		15557	24636
7.07		66299	180652
7.17		4184	7191
7.349		35448	63699
7.415		62745	131275
7.639		3143	7455
7.747		1716	3372
7.829		13916	32638
8		36628	96197
8.375		14465	37761
8.715	DCB	374	918

ASX73 1342

AR6231224A AAAR623AA ICAL 1218999999 SW-846 8082

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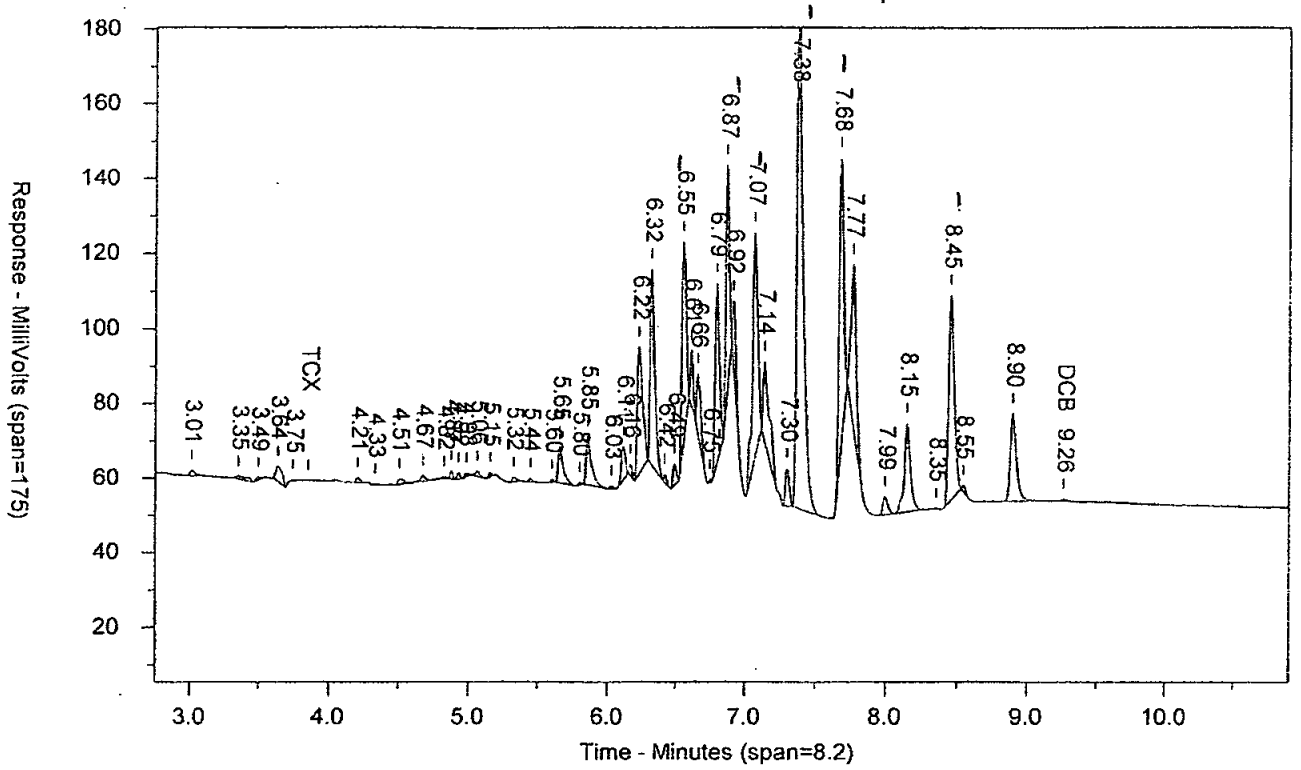

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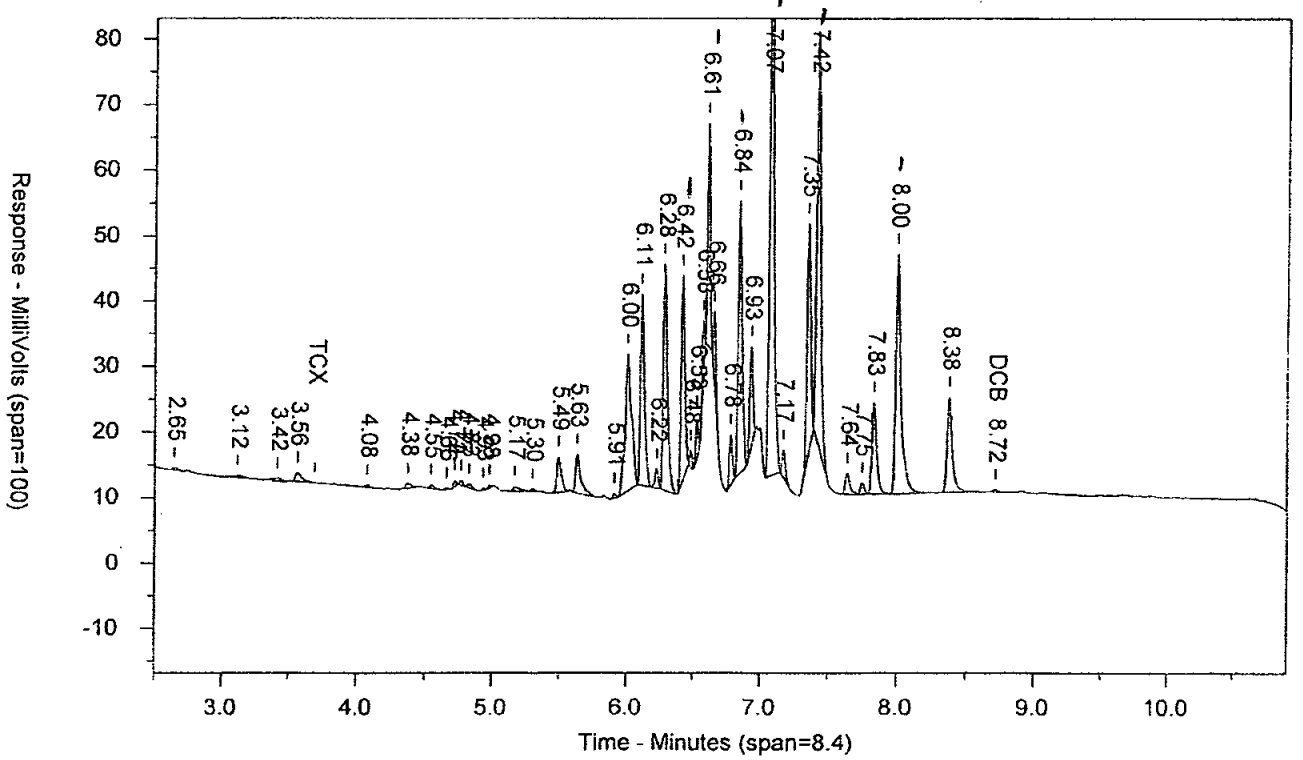

ASX73 1343

LANCASTER LABORATORIES

Sample Number: AR6231224A AAAR623AA ICAL 1218999999
Injected On: 7/8/2012 8:53:31 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
9.262	623	-4.745	DCB	8.715	374	.099	DCB

Files:
Area File: 1p7190.022.RAW
Area File: 1p7190B.022.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 9:04:26 PM
File Reported On: 7/8/2012 at 9:04:31 PM

ASX73 1344

AR6231224A AAAR623AA ICAL 1218999999 SW-846 8082

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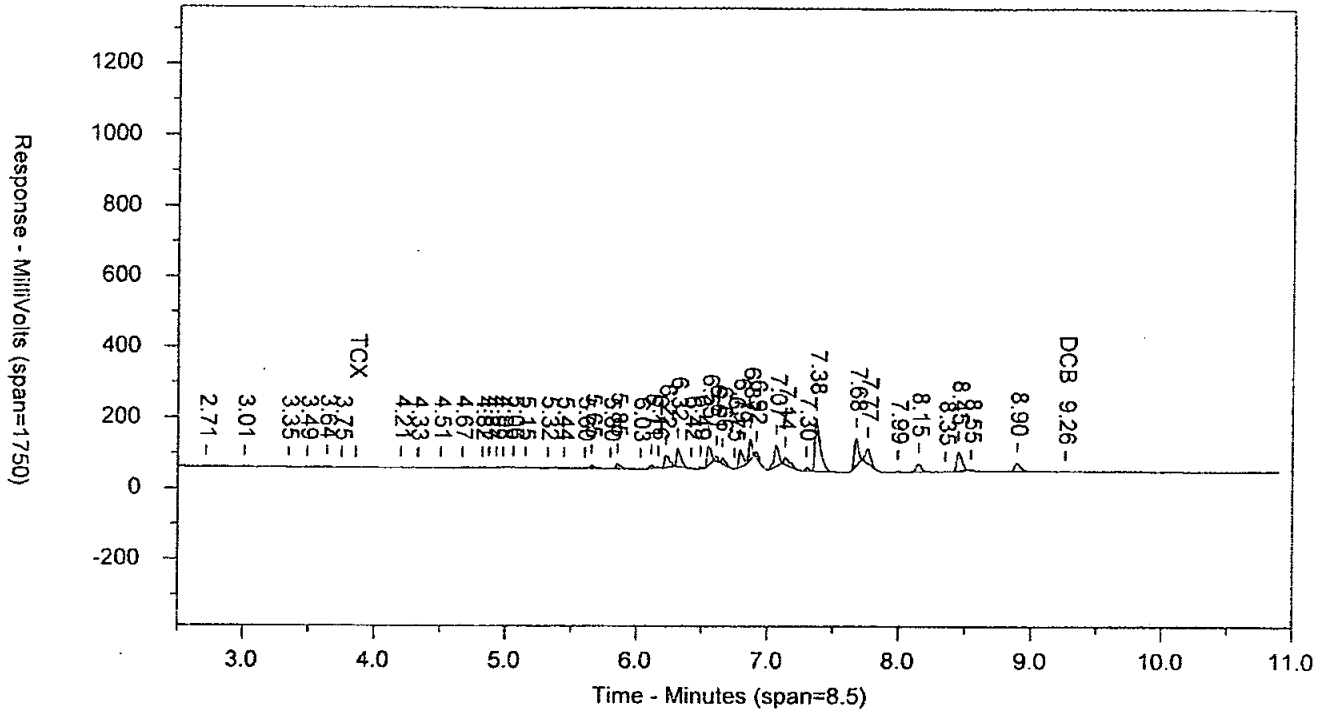

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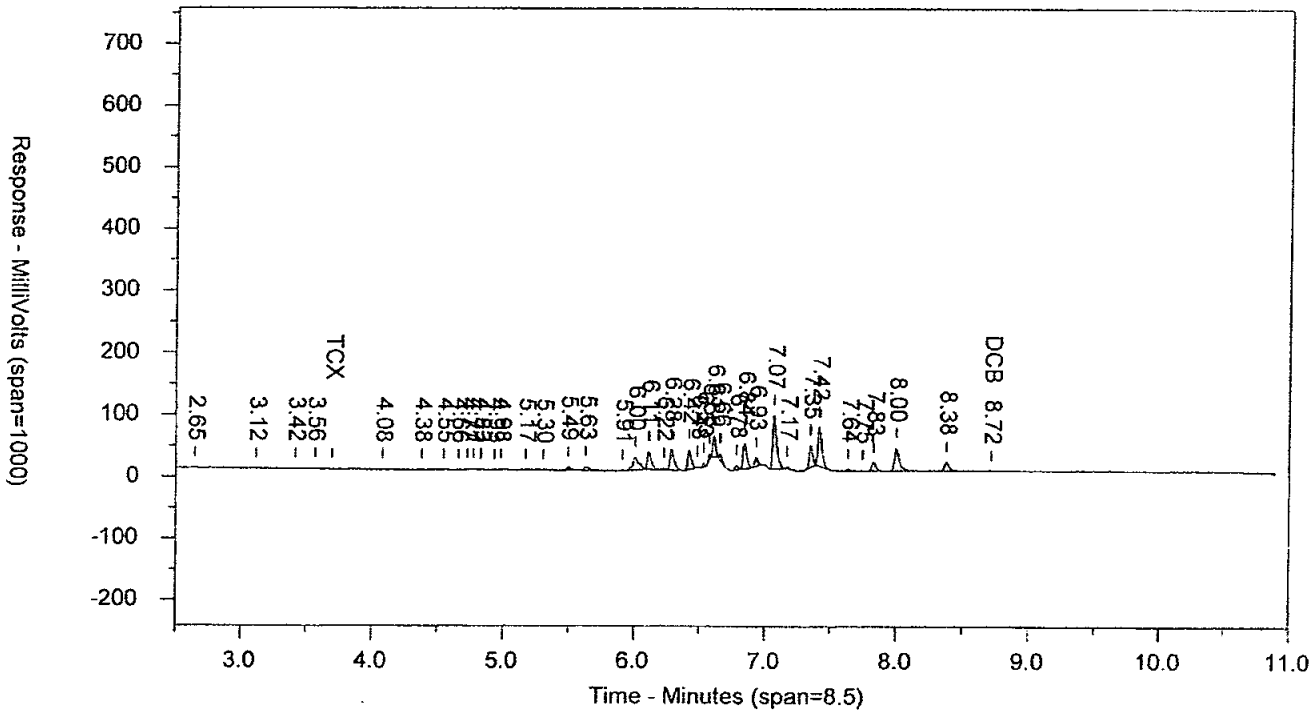

ASX73 1345

LANCASTER LABORATORIES

Sample Number: AR6831224A AAAR683AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 9:08:03 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.023.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.763		1001	3150
2.139		834	6856
2.603		247	1370
2.729		218	547
2.799		335	1657
3.012		1639	4713
3.349		976	6053
3.554		296	1760
3.638		4990	17681
3.755		773	3459
4.504		238	238
4.668		704	2772
4.822		1795	10909
5.058		1984	15389
5.153		331	426
5.325		526	1263
5.446		490	914
5.599		703	2009
5.71		503	766
5.848		1471	8022
6.028		223	437
6.091		160	210
6.167		315	478
6.553		2328	9324
6.618		2371	9577
6.792		1068	2159
6.872		36536	101417
7.034		649	697
7.089		42930	99925
7.168		8977	16862
7.378		9821	13654
7.406		3137	4576
7.678		159239	378713
7.772		137015	359890
7.995		143429	406767
8.111		35767	94495
8.35		144	398
8.455		64149	197700
8.898		400792	1517942
9.263	DCB	102334	373596
10.171		304	1019
10.426		329	2191

ASX73 1346

LANCASTER LABORATORIES

Sample Number: AR6831224A AAAR683AA ICAL 1218999999
Injected On: 7/8/2012 9:08:03 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.023.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.595		18930	179356
3.417		403	1420
3.566		1721	7590
4.378		157	402
4.457		352	1130
4.658		307	603
4.769		253	478
4.838		468	1260
5.015		343	1546
5.175		320	764
5.492		256	318
5.996		468	1647
6.113		256	804
6.3		580	2535
6.422		1335	2672
6.529		411	665
6.613		20977	50685
6.783		536	779
6.843		27677	56542
6.922		6276	11786
7.072		11272	24149
7.172		5561	12383
7.349		102107	177131
7.416		95738	184203
7.64		96401	212345
7.747		23889	49948
7.828		1265	2115
8.001		41777	103511
8.373		268452	734685
8.716	DCB	66591	184834
9.664		190	899

ASX73 1347

AR6831224A AAAR683AA ICAL 1218999999 SW-846 8082

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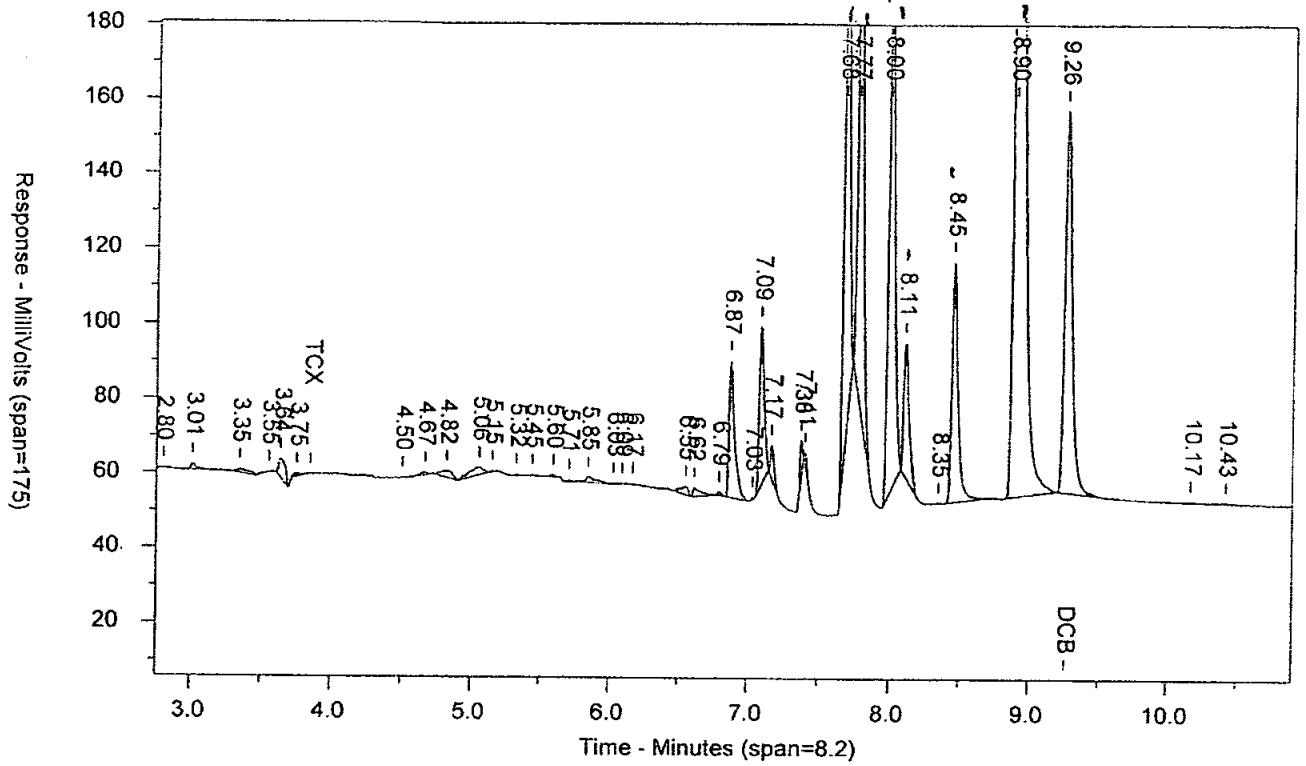

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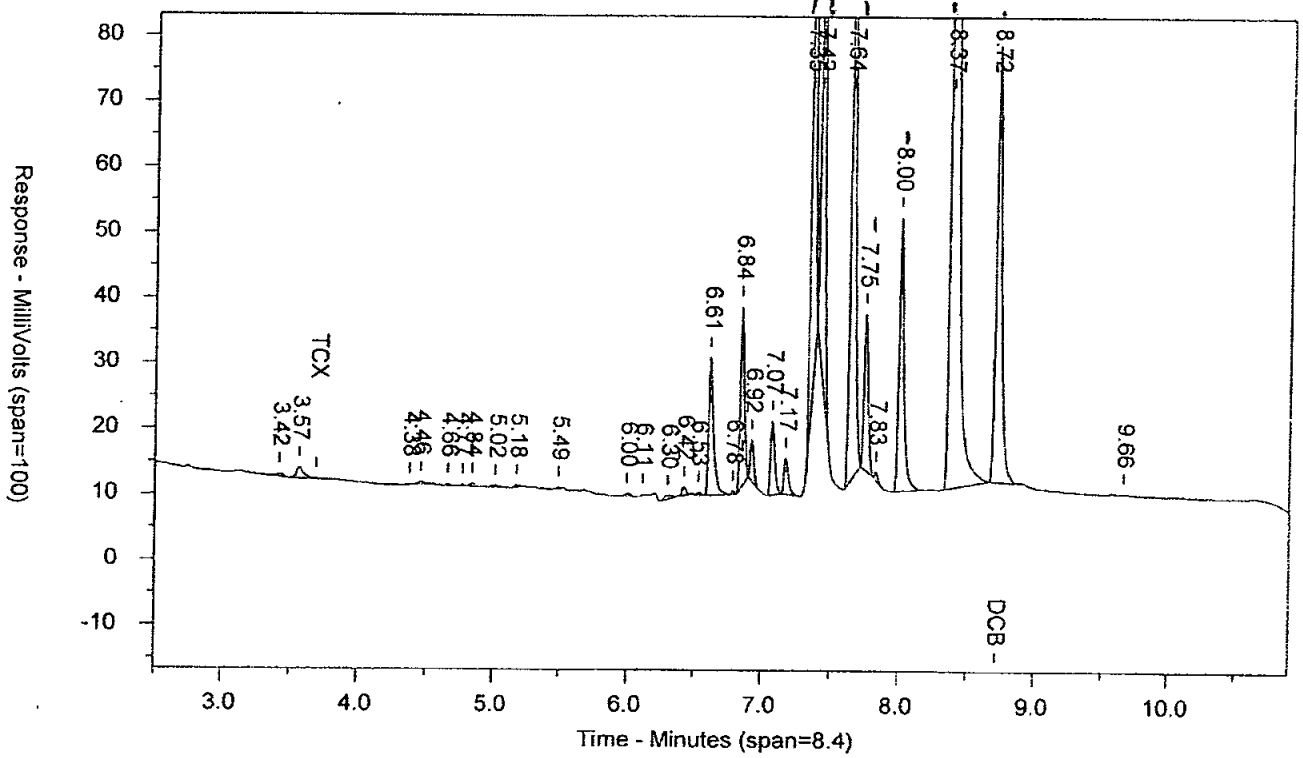

ASX73 1348

LANCASTER LABORATORIES

Sample Number: AR6831224A AAAR683AA ICAL 1218999999
Injected On: 7/8/2012 9:08:03 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: $W-846 8082
Dilution Factor: 1

Threshold: 3
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
9.263	102334	16.519	DCB	8.716	66591	17.564	DCB

Files:
Area File: 1p7190.023.RAW
Area File: 1p7190B.023.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 9:18:59 PM
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08X73 1349

AR6831224A AAAR683AA ICAL 1218999999 SW-846 8082

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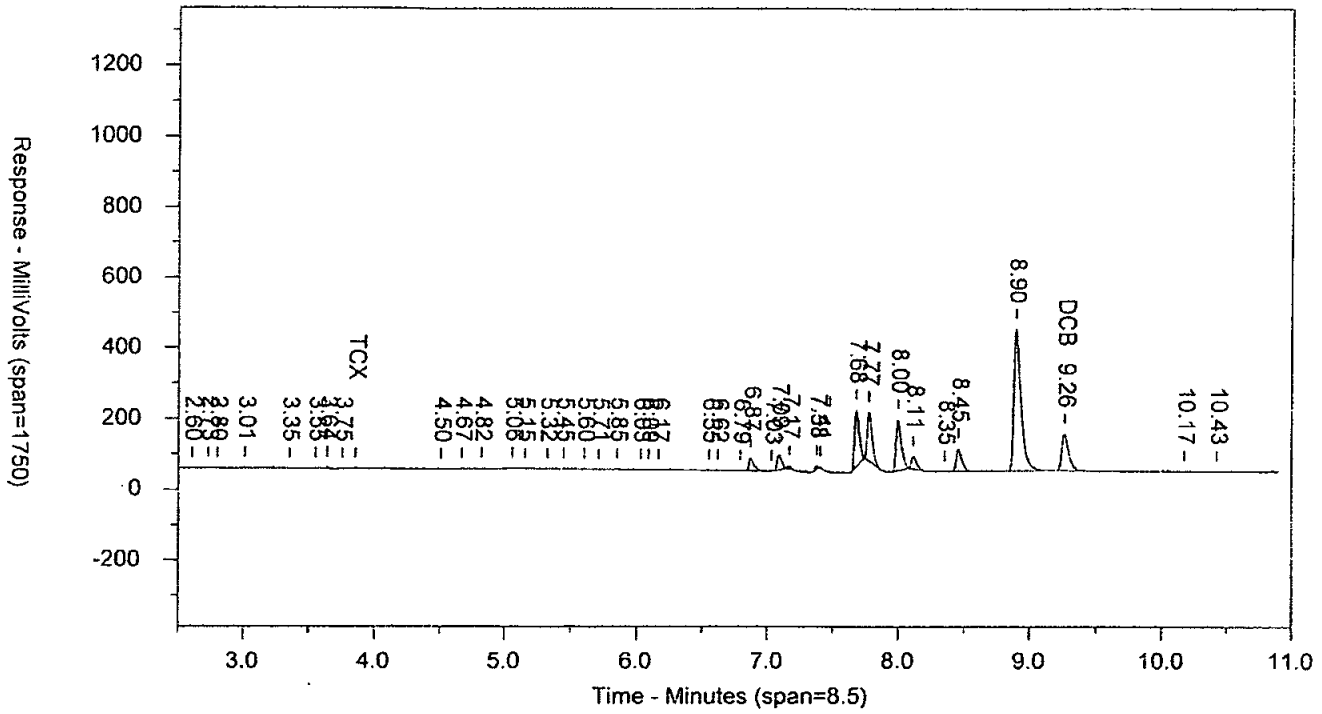

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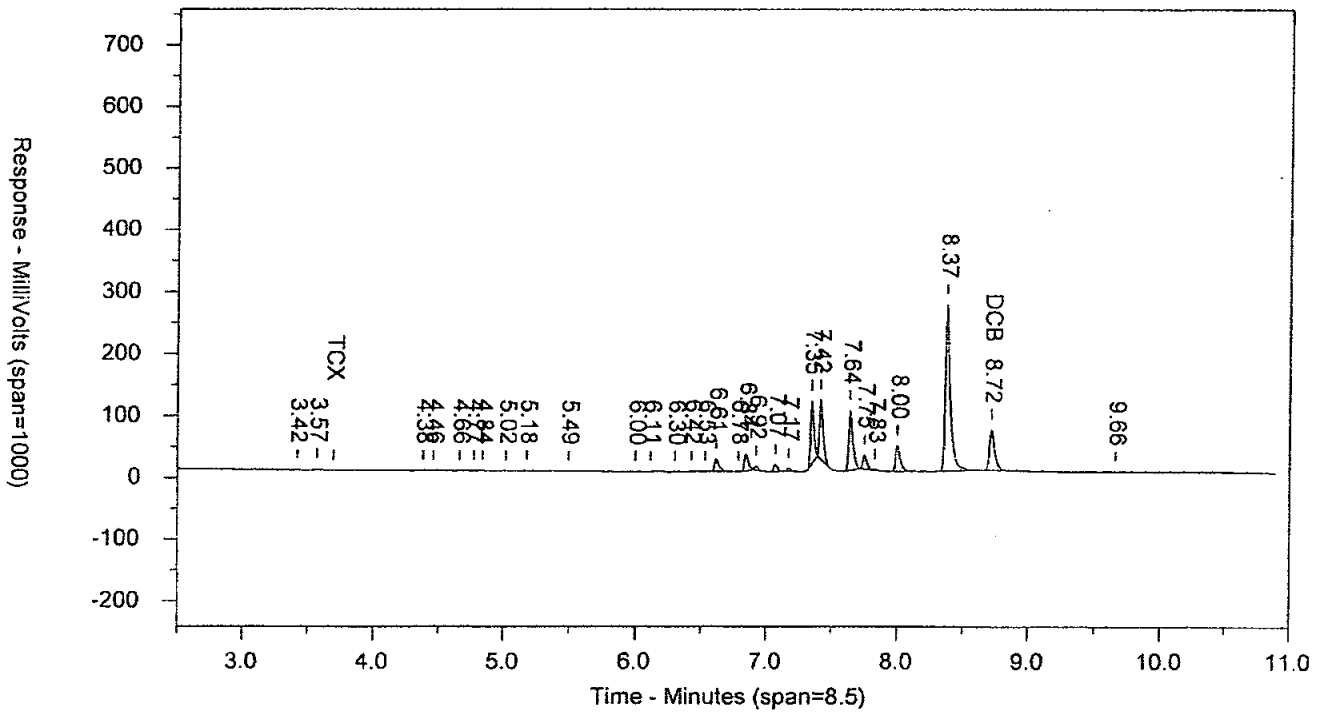

LANCASTER LABORATORIES

Sample Number: AR2131224A AAAR213AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 9:22:36 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.024.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.755		441	1127
1.967		585	2527
2.164		3494	36641
2.429		929	4011
2.683		718	9091
2.798		294	431
2.928		2663	5680
3.012		2812	4376
3.064		986	4437
3.227		912	7902
3.364		18155	44528
3.59		489	3654
3.639		12626	35440
3.739		4393	8872
3.857	TCX	400536	874142
4.061		23740	47755
4.138		19955	35701
4.206		55458	120453
4.552		4368	18158
4.631		5763	8846
4.774		259	618
4.843		2208	5763
4.926		5428	10579
4.981		3020	4624
5.062		3036	7449
5.155		843	1145
5.326		684	935
5.449		1393	3651
5.601		488	1028
5.652		1208	1570
5.711		366	504
5.852		2822	13279
6.03		570	1115
6.093		771	1699
6.168		1441	2693
6.318		501	1254
6.424		719	1243
6.554		1504	6439
6.657		798	2861
6.796		810	2012
7.113		1304	6331
7.825		184	2039
7.998		1383	3083
8.9		1861	32351
9.264	DCB	215284	861909
10.171		248	814

ASX73 1351

LANCASTER LABORATORIES

Sample Number: AR2131224A AAAR213AA ICAL 1218999999
Injected On: 7/8/2012 9:22:36 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.024.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.592		18924	196093
2.744		591	1042
2.958		342	757
3.118		321	1441
3.266		7289	18909
3.567		4292	9959
3.627		1312	2178
3.696	TCX	152909	307652
3.921		8636	17920
4.005		6996	13911
4.081		22014	47285
4.396		1148	3376
4.444		792	1695
4.516		2679	8720
4.659		980	2892
4.771		2542	5179
4.832		1667	3756
4.935		758	1111
4.979		324	410
5.173		590	2179
5.308		546	1736
5.493		918	2147
5.629		526	825
5.91		370	596
5.992		953	2649
6.113		465	1172
6.201		622	1384
6.288		460	1534
6.418		386	892
6.577		453	1262
6.715		740	2308
7.073		217	594
7.642		1014	2768
7.836		160	742
8.375		950	2649
8.715	DCB	141301	425925

ASX73 1352

AR2131224A AAAR213AA ICAL 1218999999 SW-846 8082

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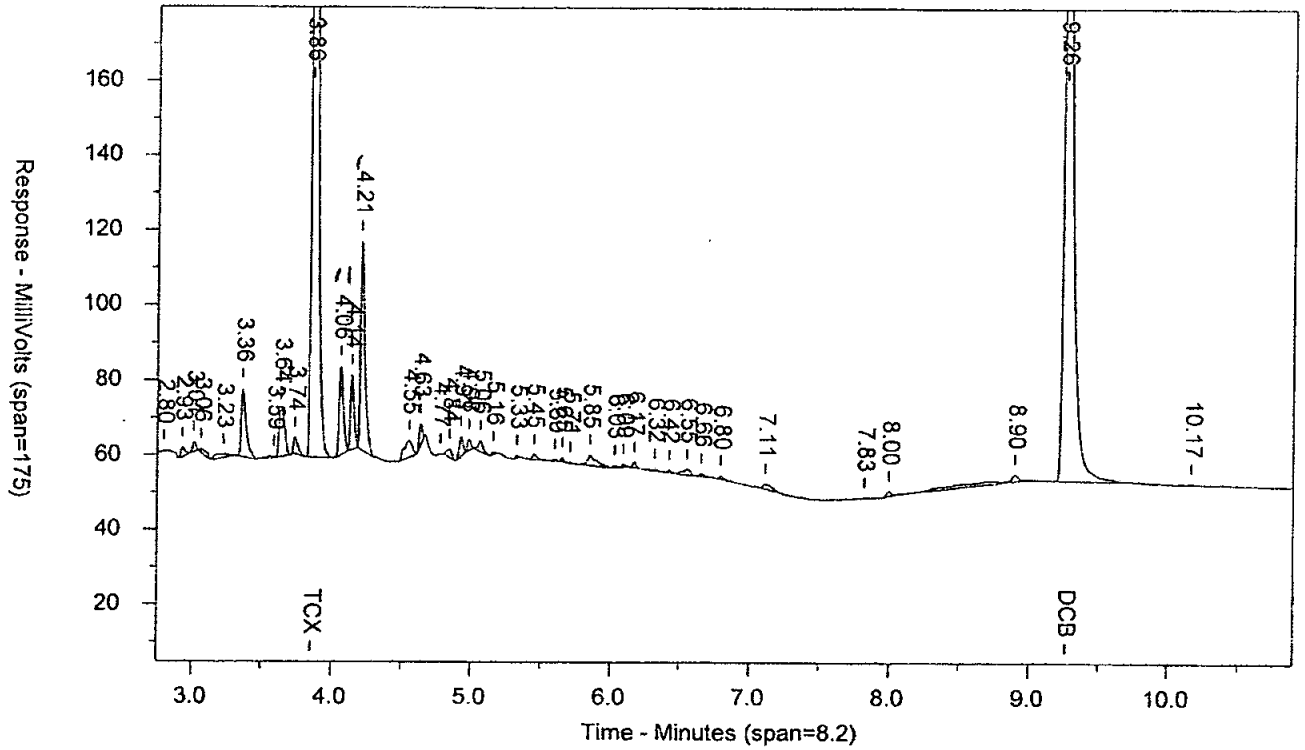

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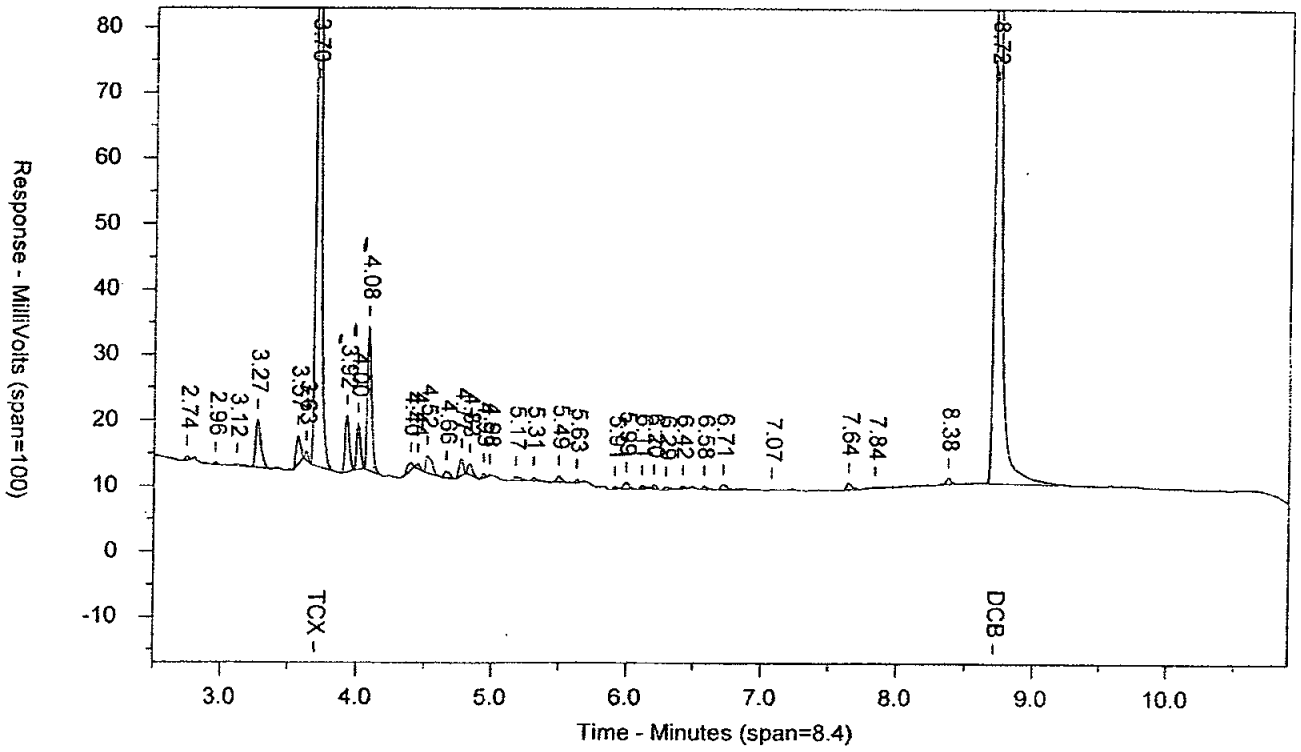

ASX23 1353

LANCASTER LABORATORIES

Sample Number: AR2131224A AAAR213AA ICAL 1218999999
Injected On: 7/8/2012 9:22:36 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.857	400536	37.489	TCX	3.696	152909	41.515	TCX
9.264	215284	40.134	DCB	8.715	141301	37.27	DCB

Files:
Area File: 1p7190.024.RAW
Area File: 1p7190B.024.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 9:33:32 PM
File Reported On: 7/8/2012 at 9:33:39 PM

AR2131224A AAAR213AA ICAL 1218999999 SW-846 8082

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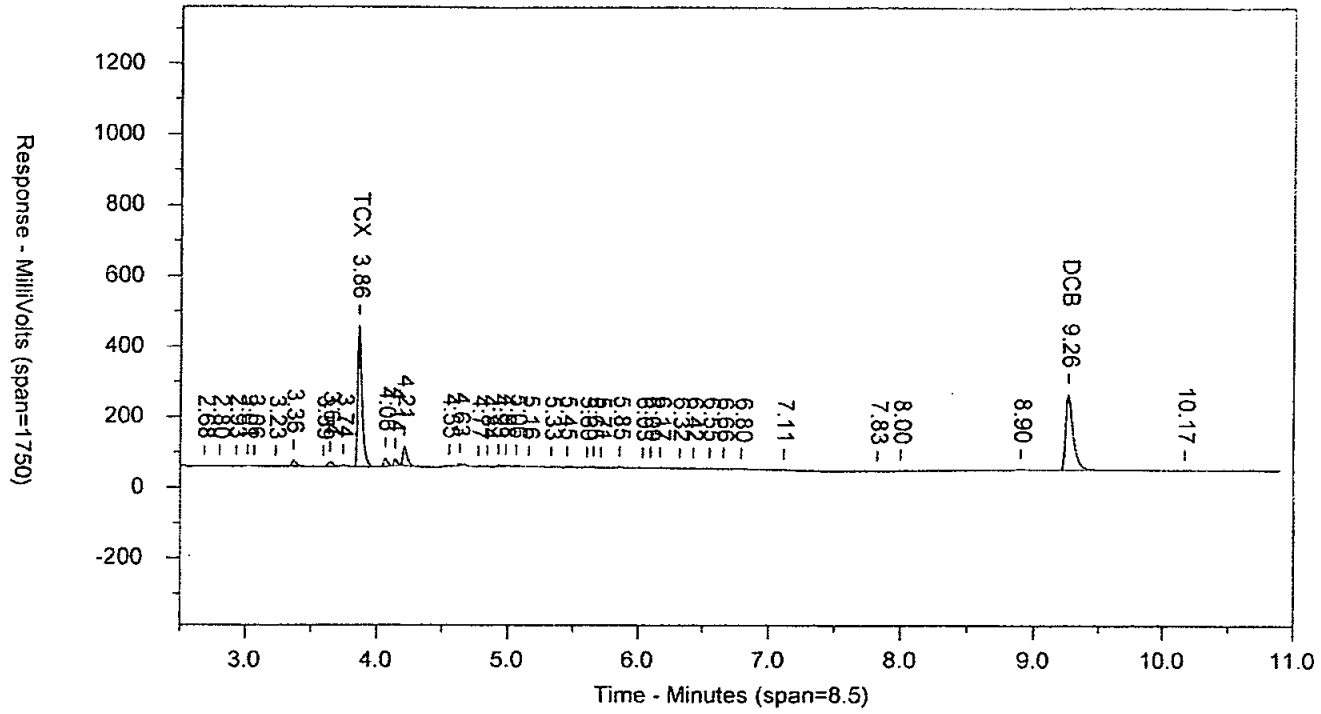

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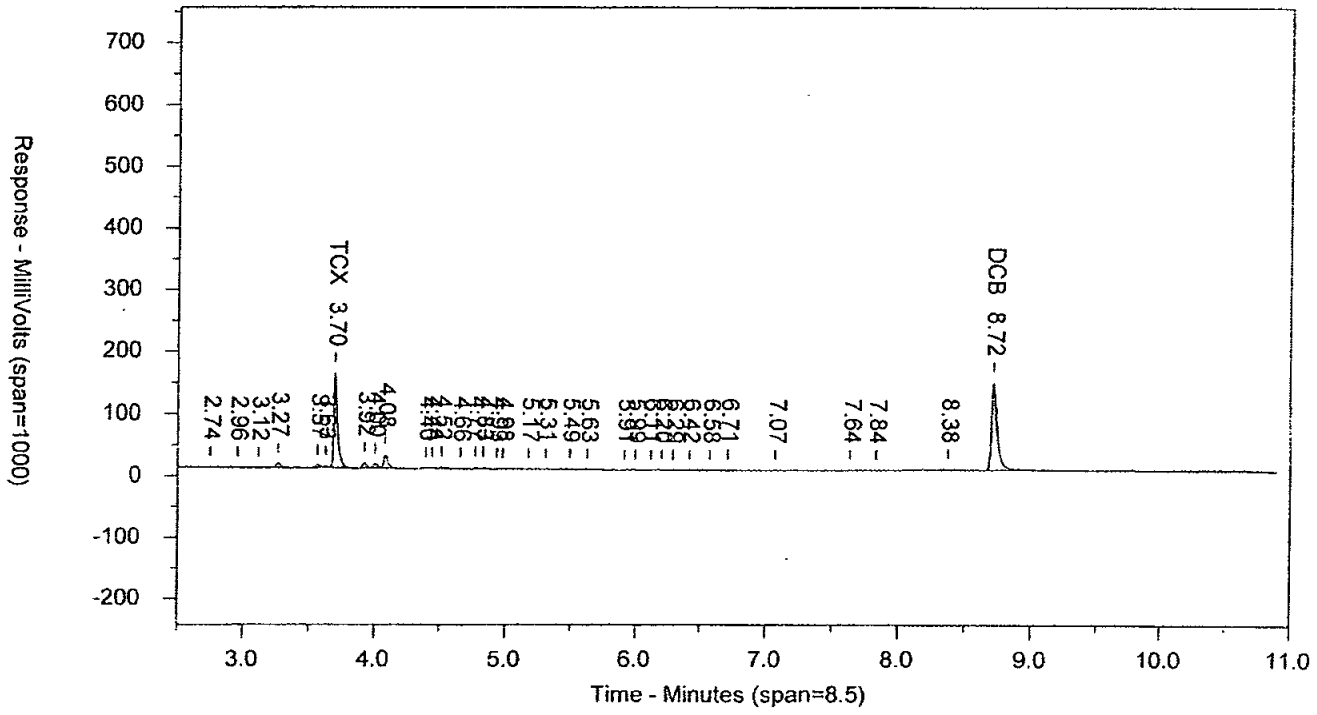

ASX73 1355

LANCASTER LABORATORIES

Sample Number: AR32X1224B AAAR32XAA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 9:39:11 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.025.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.754		482	1179
1.965		1626	12473
2.169		1595	14080
2.625		468	2057
2.754		313	678
2.798		403	559
2.931		2513	5073
3.016		2948	4652
3.067		747	2751
3.258		436	4605
3.368		12831	32142
3.558		509	3038
3.642		9290	26000
3.742		3049	6425
3.861	TCX	390926	851141
4.065		19030	37967
4.142		18230	32504
4.21		54805	119160
4.341		2524	5309
4.511		8662	11332
4.53		5330	7126
4.632		3501	4223
4.675		23217	45311
4.778		494	616
4.83		7167	18408
4.929		45715	99378
4.983		18725	31014
5.067		20557	37466
5.158		8446	10909
5.198		10709	31238
5.329		16995	43718
5.4		2717	2726
5.45		15516	27602
5.5		2450	3341
5.612		849	1020
5.658		2638	3446
5.682		6002	5818
5.713		10090	15371
5.852		15406	58391
6.033		2110	3815
6.097		2170	3013
6.133		885	862
6.172		4244	7445
6.276		2715	6381
6.379		331	441
6.429		2979	5467
6.556		1959	8024
6.665		3538	9682
6.799		843	1600
7.118		612	3706
7.382		494	1102
7.693		279	522
7.777		123	526

ASX73 1356

RT A	Compound A	Height A	Area A
8.003		1310	2914
8.908		1789	33851
9.271	DCB	208532	842936
10.18		229	691

ASX73 1357

LANCASTER LABORATORIES

Sample Number: AR32X1224B AAAR32XAA ICAL 1218999999 Injection Volume: 1 uSW-846 8082
Injected On: 7/8/2012 9:39:11 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.025.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.594		19009	193274
2.746		603	1068
2.8		508	1264
3.268		4983	13045
3.568		3244	7538
3.629		843	1407
3.697	TCX	148858	298120
3.923		6882	14300
4.007		6359	12710
4.083		21508	46845
4.241		1091	2492
4.382		13964	43311
4.55		10562	27251
4.679		3117	9378
4.773		22729	45452
4.827		7425	13667
4.938		6817	9950
4.981		2470	2878
5.016		5354	12313
5.175		7098	15281
5.309		6770	13244
5.368		1484	2223
5.494		5573	10595
5.53		4740	6642
5.631		1323	1994
5.688		3124	4691
5.723		1902	2647
5.833		1001	1777
5.913		1327	2037
5.993		2584	6627
6.118		1487	4030
6.203		1960	3948
6.319		526	2408
6.419		429	910
6.485		1437	2962
6.58		481	1472
6.718		398	1280
7.074		415	992
7.423		262	546
7.645		976	2627
7.834		171	645
8.381		941	2795
8.72	DCB	137775	416969

ASX73 1358

AR32X1224B AAAR32XAA ICAL 1218999999 SW-846 8082

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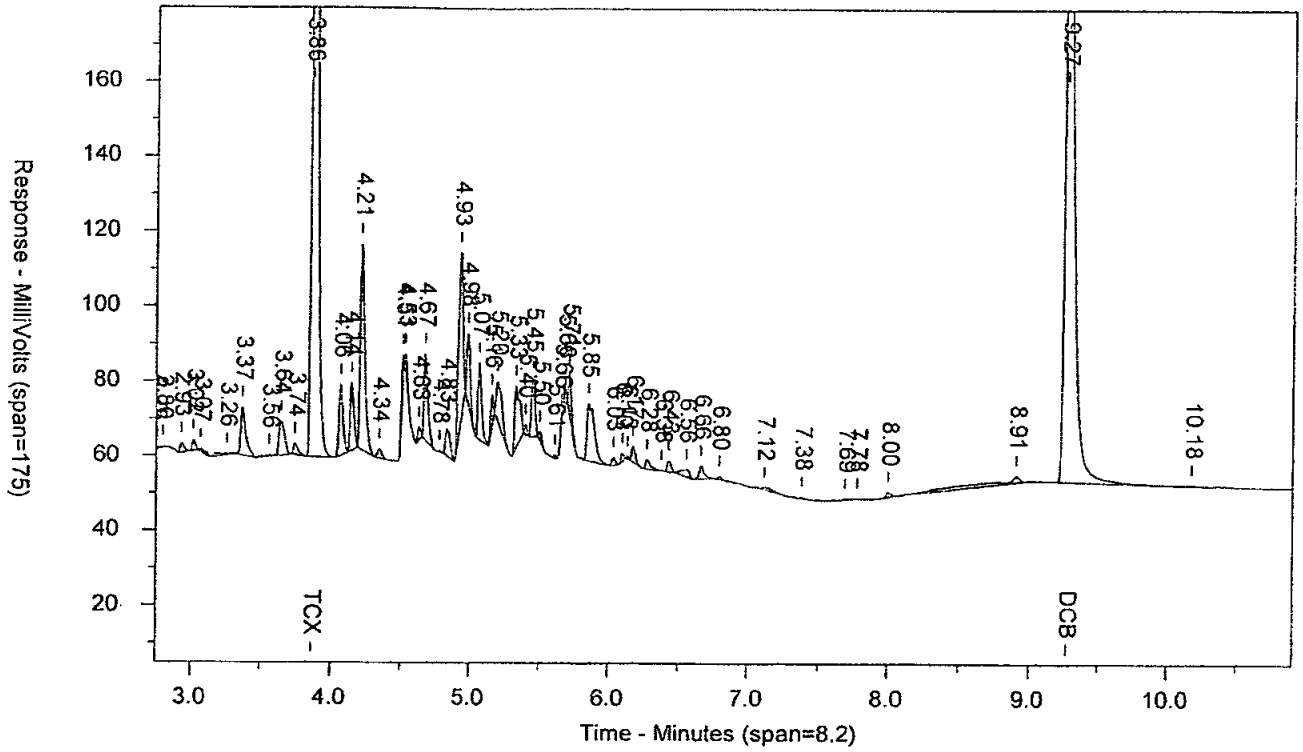

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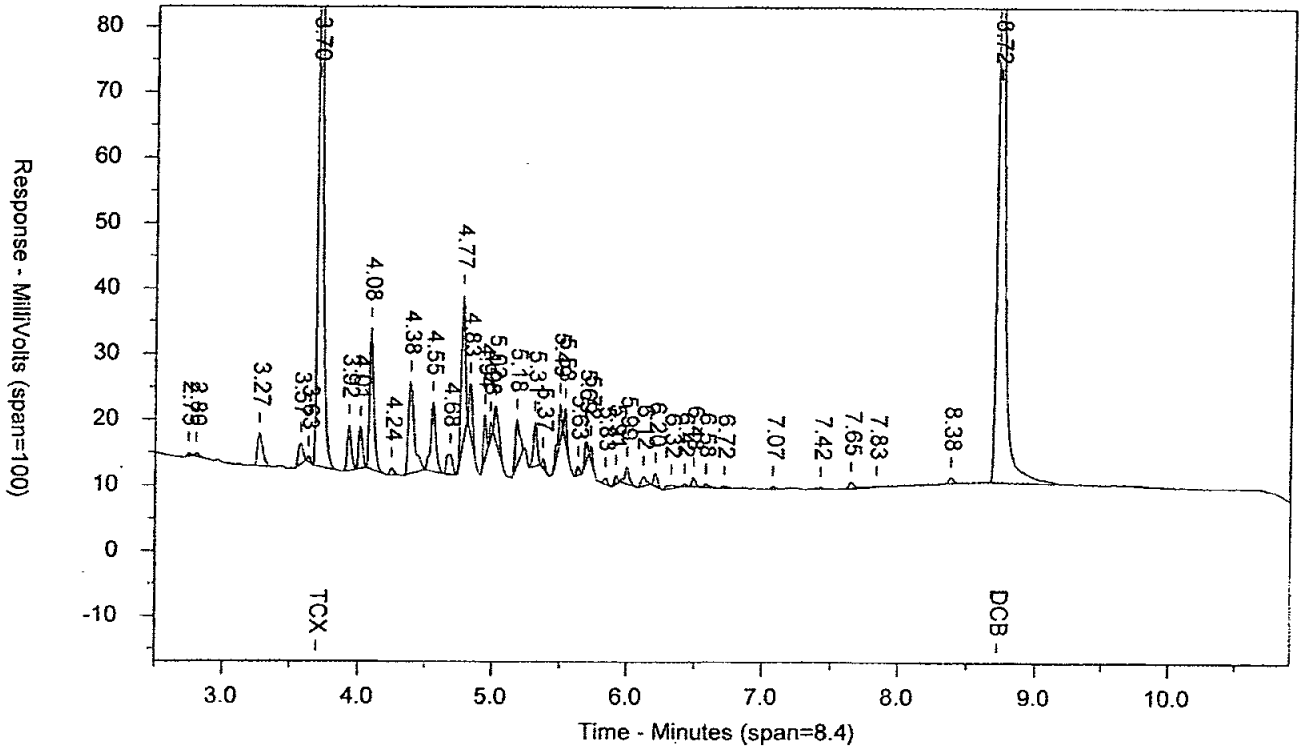

ASX73 1359

LANCASTER LABORATORIES

Sample Number: AR32X1224B AAAR32XAA ICAL 1218999999
Injected On: 7/8/2012 9:39:11 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.861	390926	36.589	TCX	3.697	148858	40.415	TCX
9.271	208532	38.722	DCB	8.72	137775	36.34	DCB

Files:
Area File: 1p7190.025.RAW
Area File: 1p7190B.025.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 9:50:06 PM
File Reported On: 7/8/2012 at 9:50:11 PM

ASX73 1368

AR32X1224B AAAR32XAA ICAL 1218999999 SW-846 8082

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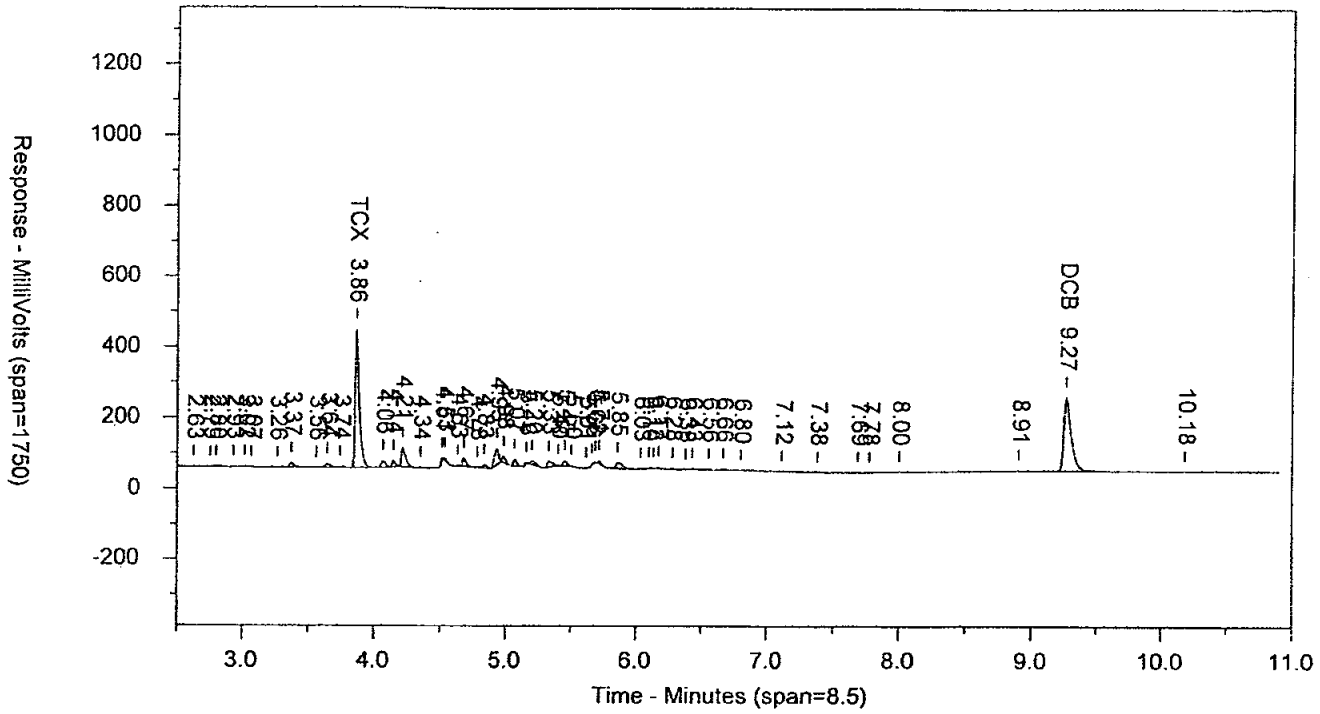

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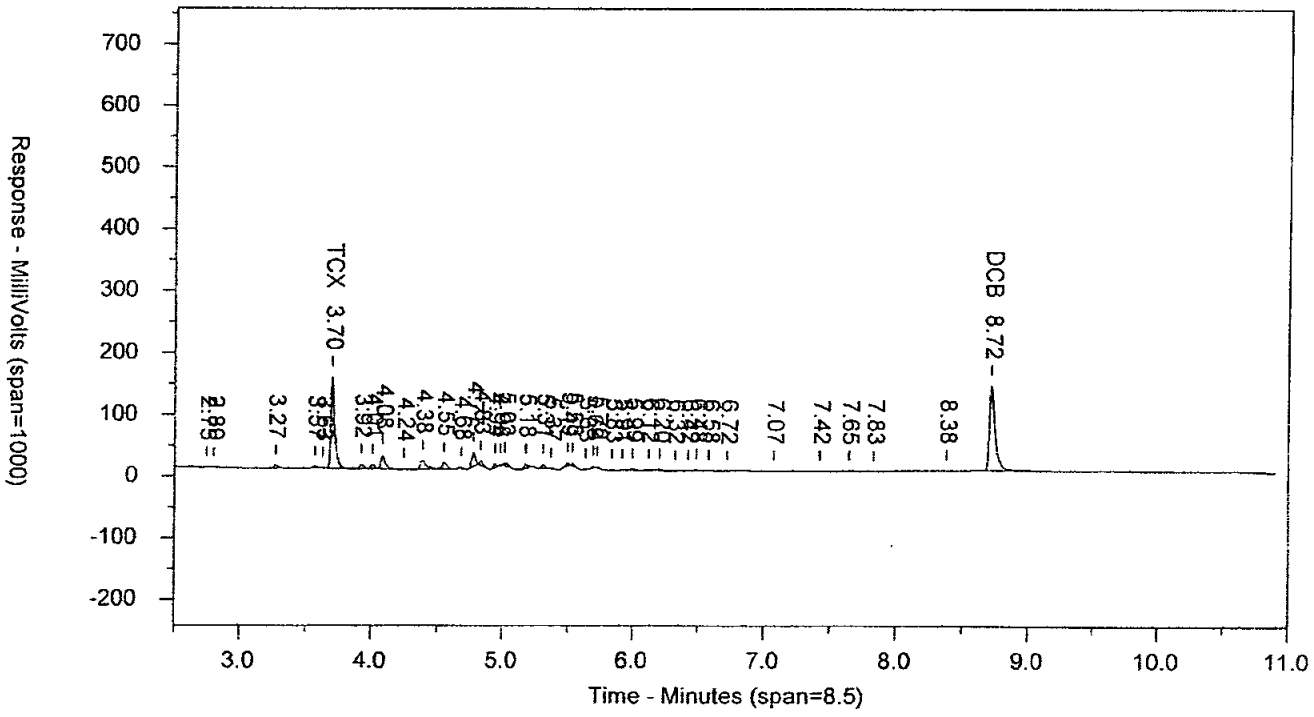

ASX73 1361

LANCASTER LABORATORIES

Sample Number: AR4231224A AAAR423AA ICAL 1218999999 Injection Volume: SW846 8082
Injected On: 7/8/2012 9:53:46 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.026.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.751		353	934
1.968		1549	11388
2.17		2279	22528
2.301		1200	4966
2.62		464	1856
2.748		742	1532
2.833		853	3336
2.928		2276	4207
3.013		3265	5248
3.064		762	2780
3.188		447	1913
3.363		946	4661
3.553		604	3930
3.639		9820	27619
3.858	TCX	399315	868438
4.061		6309	12448
4.138		12008	21432
4.207		34579	74934
4.339		4272	9345
4.508		13431	17741
4.526		8591	10500
4.629		1511	1584
4.671		37370	77920
4.774		594	698
4.842		11564	31482
4.925		72794	158778
4.979		27371	44414
5.063		32136	59629
5.155		14701	18684
5.194		18112	53504
5.326		28727	74601
5.396		4626	4612
5.447		26024	45867
5.497		3947	5389
5.61		1825	2307
5.656		6252	7356
5.679		10669	10569
5.709		18153	26849
5.849		9685	13174
5.87		4939	8430
6.031		4349	7805
6.094		4606	6342
6.13		1821	1771
6.169		9116	16374
6.272		5289	11927
6.377		819	1069
6.427		8207	15841
6.521		473	687
6.554		933	2602
6.662		7452	17056
6.798		1981	5524
7.047		590	1066
7.111		464	2728

ASX73 1362

RT A	Compound A	Height A	Area A
7.301		425	1135
7.826		156	1710
7.999		1344	2961
8.9		1810	29356
9.264	DCB	213787	862602
10.173		216	686

ASX73 1363

LANCASTER LABORATORIES

Sample Number: AR4231224A AAAR423AA ICAL 1218999999 Injection Volume: 1 uSW-846 8082
Injected On: 7/8/2012 9:53:46 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.026.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.591		18927	194414
2.745		655	1161
2.958		286	639
3.116		348	1504
3.412		322	1280
3.568		4031	12347
3.697	TCX	153023	307172
3.921		2206	4581
4.004		3868	7965
4.082		13230	29359
4.241		1713	3935
4.38		22222	65462
4.549		15820	36742
4.665		4593	13743
4.771		35725	71504
4.826		11323	20432
4.936		11104	15870
4.98		4500	5165
5.014		9337	21478
5.174		14738	49942
5.307		11833	22946
5.366		2615	3941
5.493		10170	18979
5.527		8189	11529
5.629		2827	4239
5.686		5637	8567
5.722		3599	4758
5.833		2346	4151
5.912		2826	4444
5.955		738	753
5.991		4503	8158
6.116		2579	6814
6.201		4222	8483
6.319		634	2503
6.418		566	1184
6.484		3429	7053
6.579		1062	2637
6.714		342	1127
6.878		345	728
7.062		267	890
7.224		170	587
7.643		1040	2776
8.375		1038	6364
8.715	DCB	139746	426208

ASX73 1364

AR4231224A AAAR423AA ICAL 1218999999 SW-846 8082

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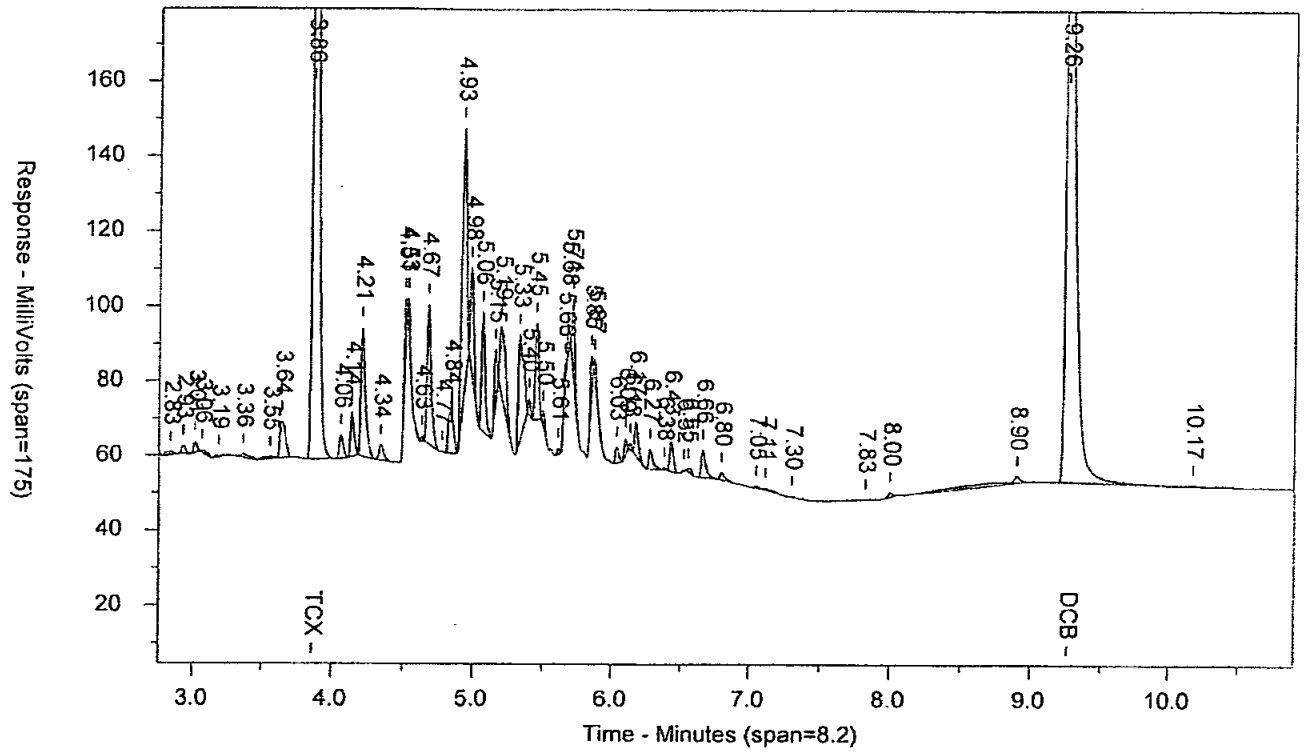

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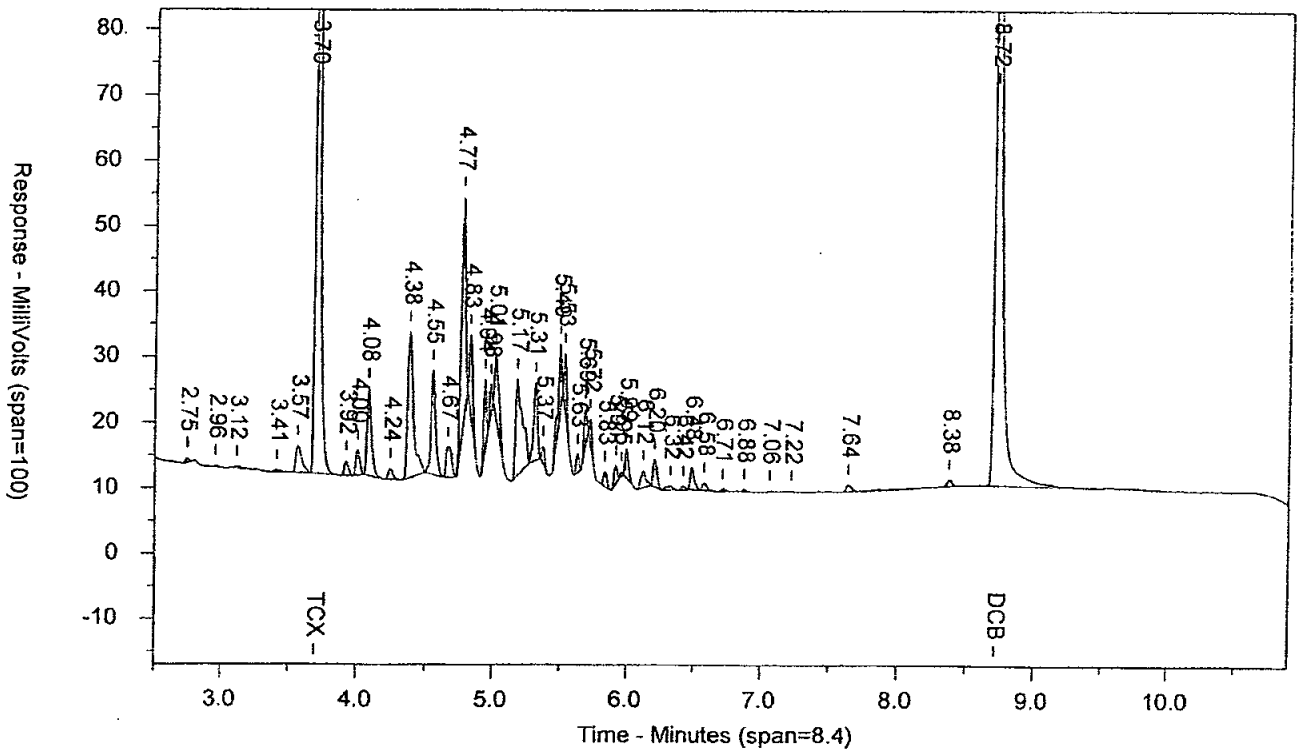

ASX73 1365

LANCASTER LABORATORIES

Sample Number: AR4231224A AAAR423AA ICAL 1218999999
Injected On: 7/8/2012 9:53:46 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.858	399315	37.375	TCX	3.697	153023	41.545	TCX
9.264	213787	39.82	DCB	8.715	139746	36.86	DCB

Files:
Area File: 1p7190.026.RAW
Area File: 1p7190B.026.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 10:04:41 PM
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ASX73 1366

AR4231224A AAAR423AA ICAL 1218999999 SW-846 8082

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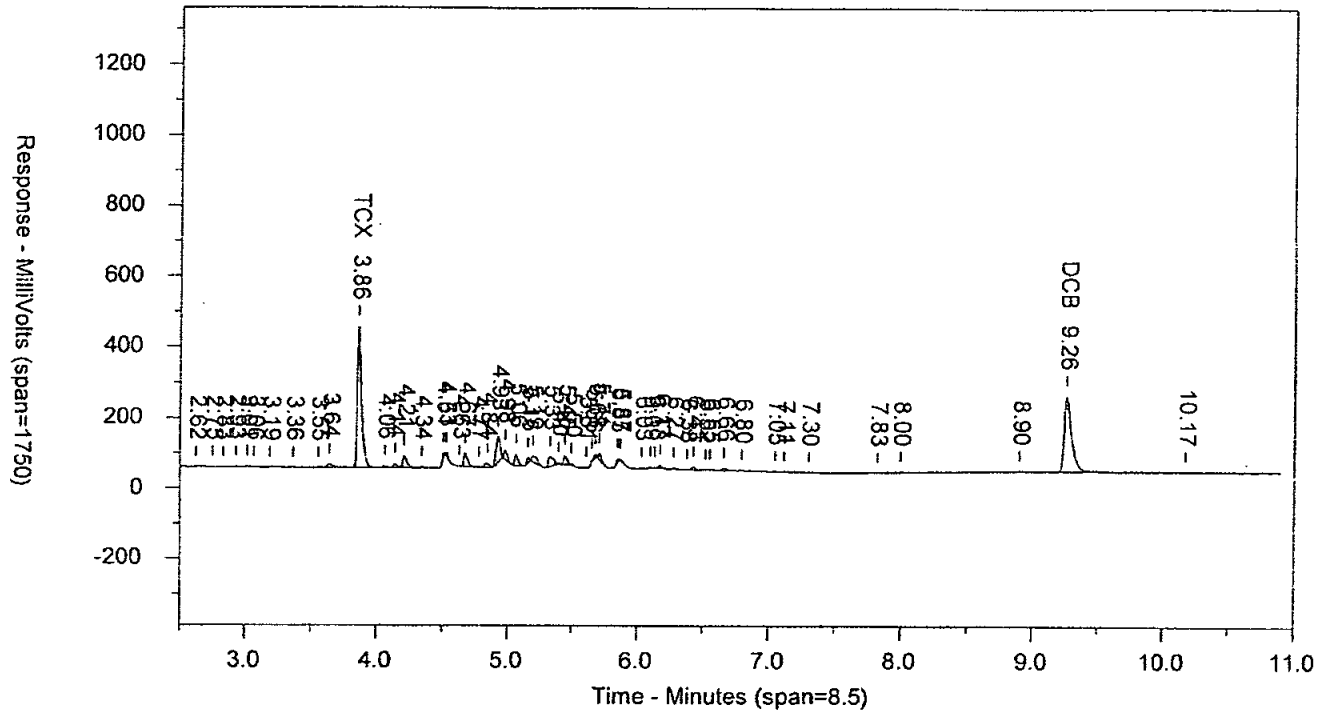

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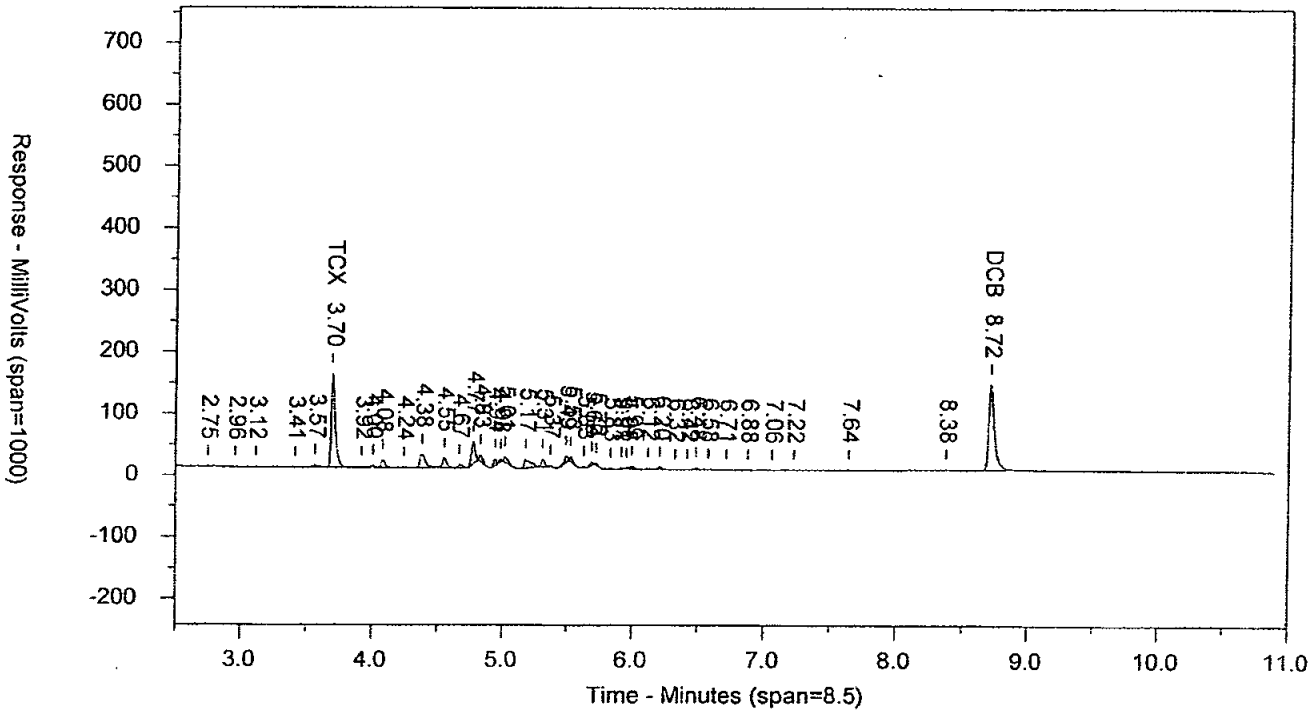

ASX73 1367

LANCASTER LABORATORIES

Sample Number: AR16XX1224B AAAR16XAA ICAL 1218999999
Injected On: 7/8/2012 10:08:19 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.027.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

Injection Volume: SW-846 8082
Analyst: 2855

RT A	Compound A	Height A	Area A
2.06		295	541
2.16		586	3992
2.74		244	519
2.833		393	1289
2.926		514	823
3.012		2469	6291
3.359		1159	4309
3.549		491	2588
3.638		7900	24720
3.75		391	1174
3.857	TCX	104120	212200
4.059		7789	15754
4.138		9592	16783
4.206		43575	95981
4.338		5573	12428
4.506		16652	21328
4.525		10641	13053
4.625		1774	1787
4.67		48676	104209
4.774		863	1059
4.841		14131	39158
4.924		91059	199970
4.978		34552	57523
5.062		41230	77004
5.153		18410	23511
5.193		22654	68277
5.325		22565	31360
5.395		5580	5546
5.445		31026	55376
5.496		5010	7011
5.608		1300	1591
5.654		5390	6043
5.677		4466	4186
5.707		4379	5982
5.847		3594	12063
6.539		701	3707
6.64		418	3909
7.113		870	4152
7.823		152	544
7.998		253	488
8.215		231	1780
8.346		836	4164
8.898		626	21717
9.262	DCB	60823	219310

ASX73 1368

LANCASTER LABORATORIES

Sample Number: AR16XX1224B AAAR16XAA ICAL 1218999999 Injection Volume: 1 ulSW-846 8082
Injected On: 7/8/2012 10:08:19 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.027.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.589		100971	1036863
2.743		459	843
3.413		441	1555
3.566		2884	8730
3.697	TCX	33085	72390
3.92		2732	5826
4.005		3438	6861
4.081		16575	36547
4.24		2150	4975
4.378		28256	81224
4.548		20465	48014
4.677		5720	16442
4.77		45851	90672
4.824		14337	24844
4.935		14552	20435
4.978		5711	6421
5.013		11955	27674
5.172		16376	34176
5.305		14800	28891
5.366		3360	5115
5.492		10227	38269
5.7		1031	3426
6.009		287	1160
6.205		245	1513
6.712		471	1478
7.233		161	538
7.644		946	11107
8.374		280	15501
8.717	DCB	39138	118684

ASX73 1369

AR16XX1224B AAAR16XAA ICAL 1218999999 SW-846 8082

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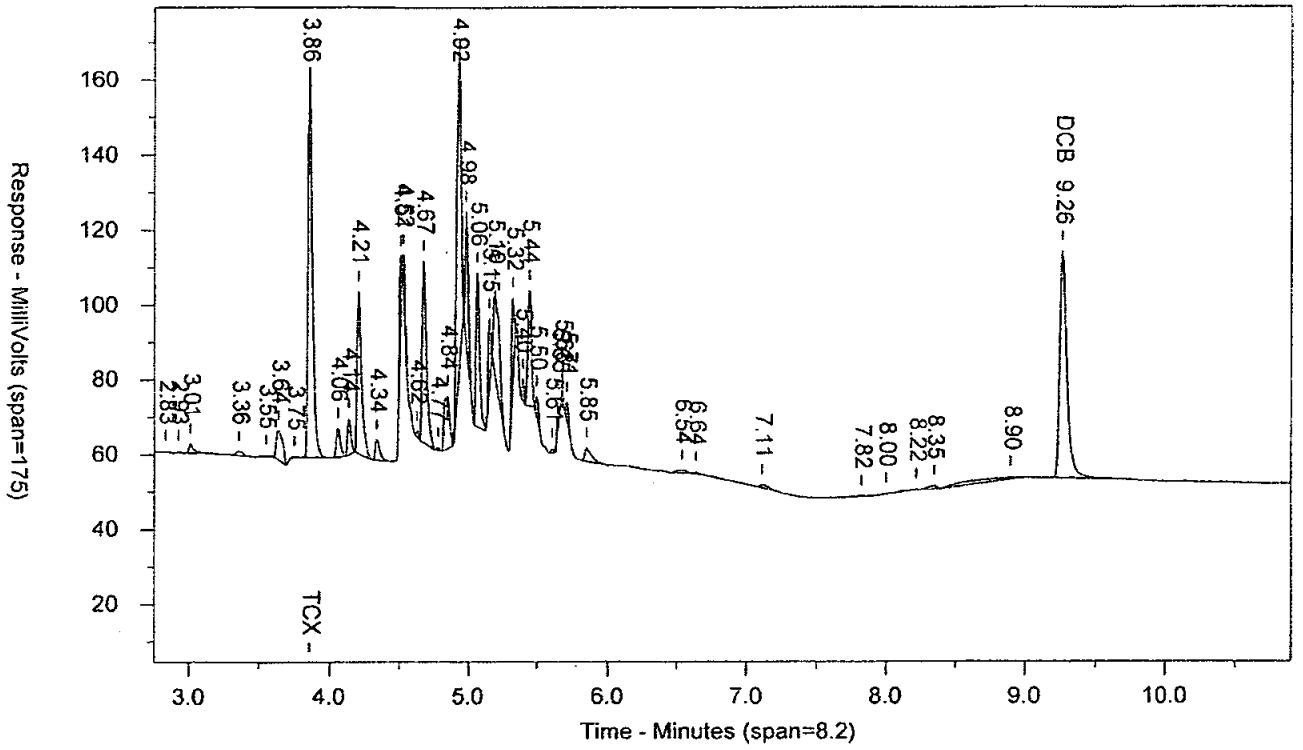

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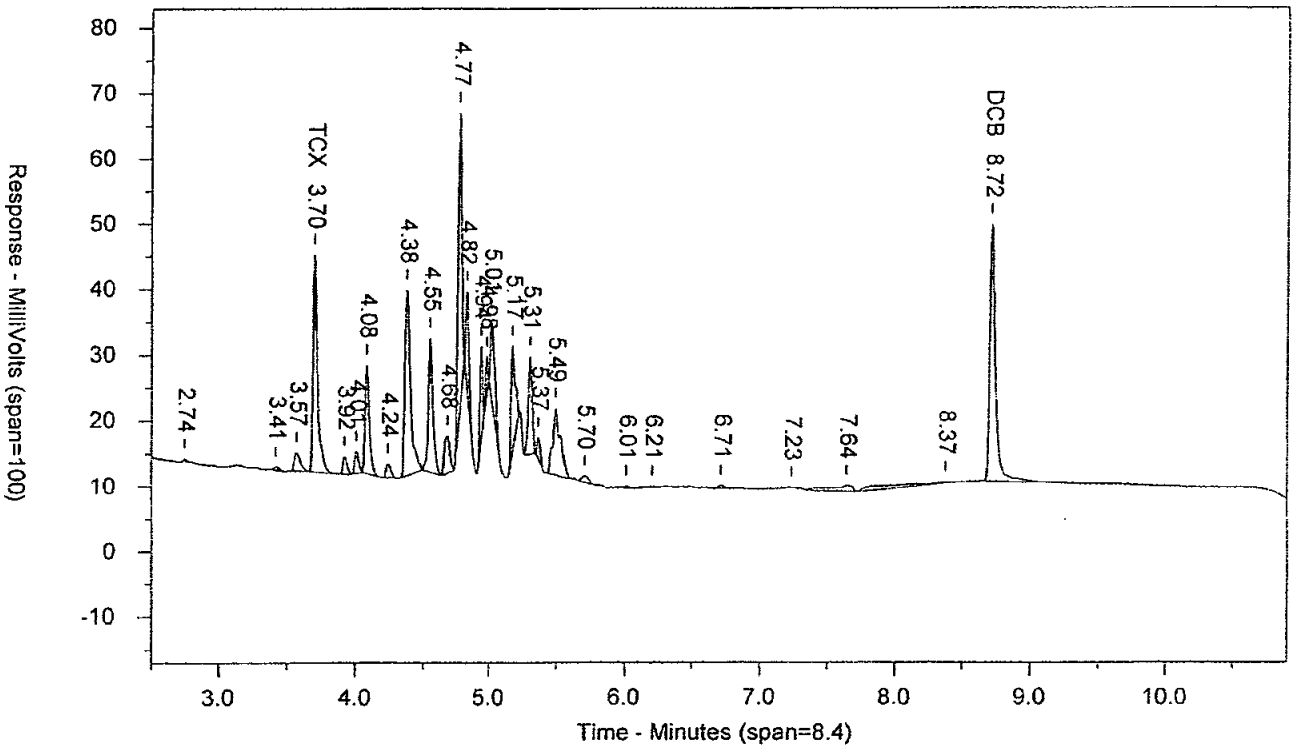

ASX73 1370

LANCASTER LABORATORIES

Sample Number: AR16XX1224B AAAR16XAA ICAL 1218999999
Injected On: 7/8/2012 10:08:19 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.857	104120	9.745	TCX	3.697	33085	8.982	TCX
9.262	60823	7.841	DCB	8.717	39138	10.323	DCB

Files:
Area File: 1p7190.027.RAW
Area File: 1p7190B.027.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 10:19:15 PM
File Reported On: 7/8/2012 at 10:19:23 PM

ASX73 1371

AR16XX1224B AAAR16XAA ICAL 1218999999 SW-846 8082

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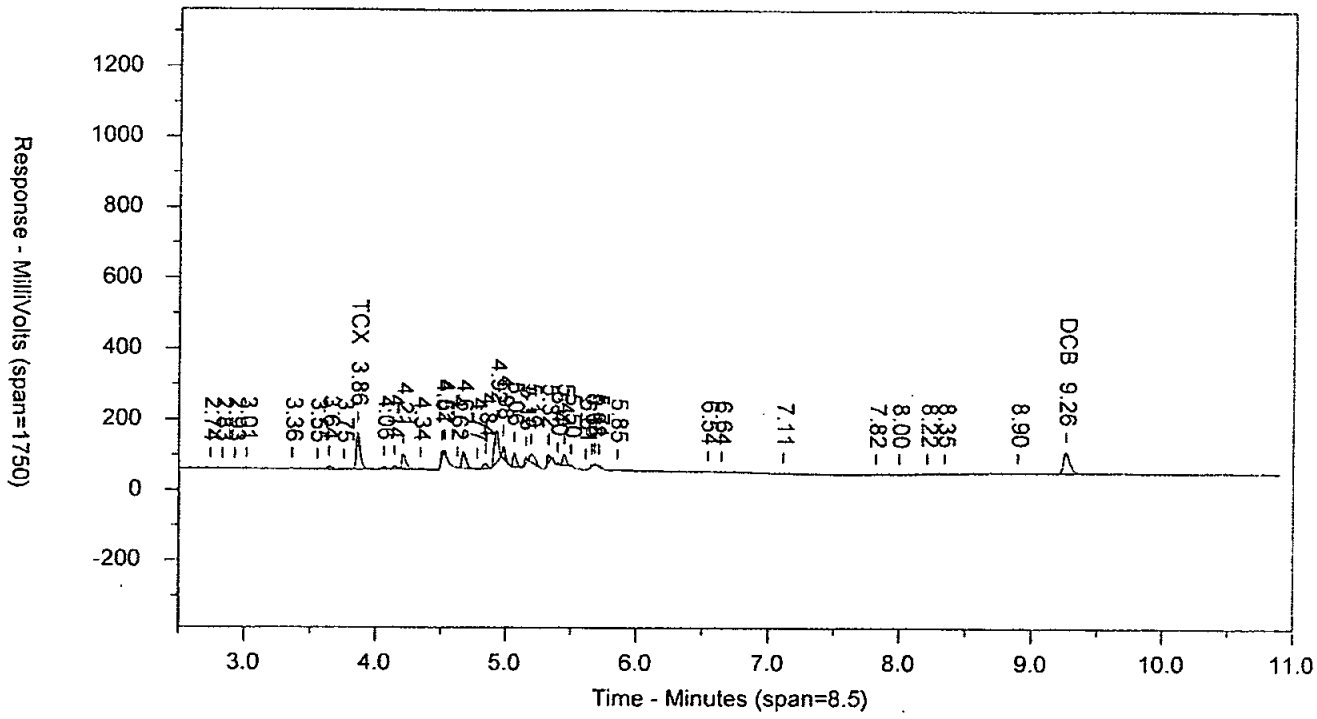

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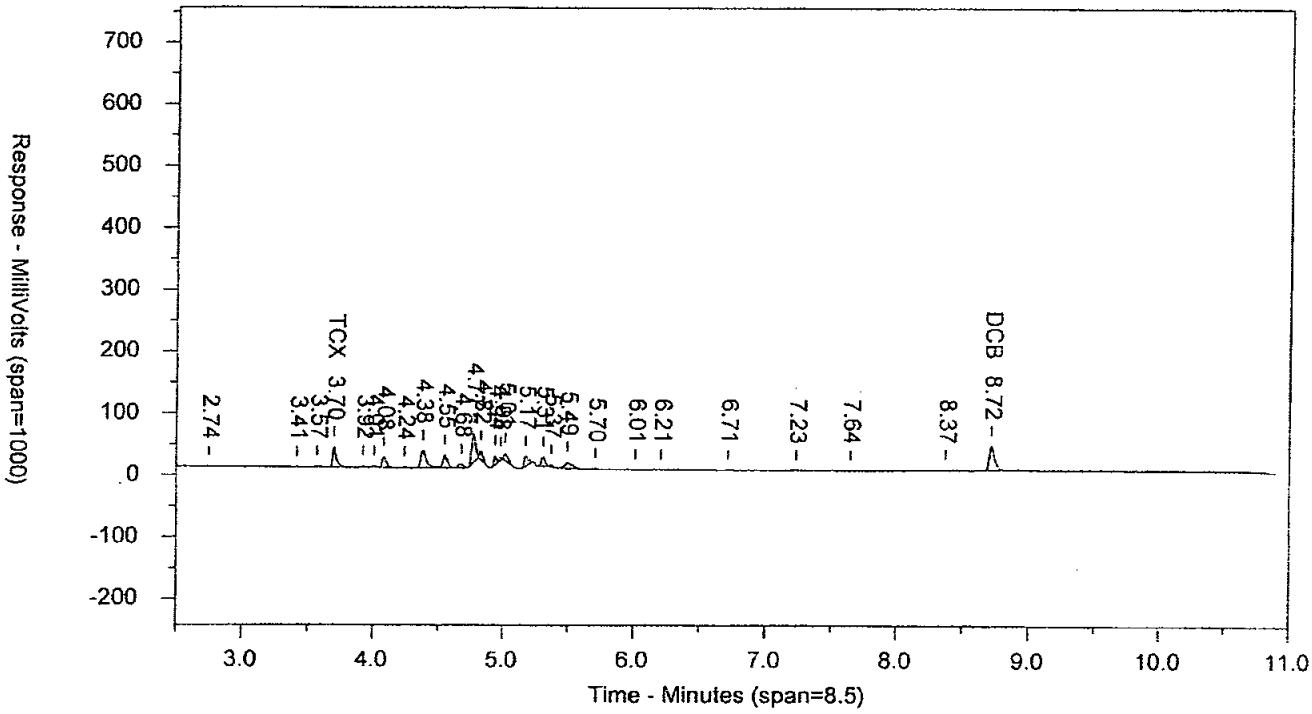

ASX73 1372

LANCASTER LABORATORIES

Sample Number: MD16X1224B AAMD16XAA ICAL 1218999999 Injection Volume: SW-846 8082
Injected On: 7/8/2012 10:22:54 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.028.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.874		487	3259
2.058		443	799
2.162		796	5502
3.011		2477	6065
3.35		636	4562
3.555		791	4873
3.638		15765	48424
3.856	TCX	11018	20070
4.058		448	918
4.138		461	779
4.206		2668	6444
4.336		299	748
4.507		1169	1428
4.67		2870	6120
4.824		2178	10069
4.925		5150	10482
4.98		2290	4076
5.061		2342	4074
5.153		1192	1502
5.193		1270	3486
5.324		2085	5171
5.445		1782	3204
5.651		1752	2424
5.852		2559	10250
6.113		691	1480
6.167		716	1083
6.227		1813	5071
6.318		4192	9429
6.419		362	471
6.496		730	1323
6.554		5217	15135
6.659		1524	3047
6.796		5207	10692
6.87		2139	3325
6.919		992	1599
7.067		2911	6668
7.139		1159	1863
7.299		775	1447
7.378		6907	16683
7.683		3492	6822
7.766		1057	2813
8.151		673	1799
8.455		1671	4172
8.899		786	6338
9.262	DCB	6791	21497

ASX73 1373

LANCASTER LABORATORIES

Sample Number: MD16X1224B AAMD16XAA ICAL 1218999999 Injection Volume: 1 ulSW-846 8082
Injected On: 7/8/2012 10:22:54 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.028.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.589		102887	1057641
2.743		544	1357
3.118		300	2553
3.415		347	1432
3.566		6278	19588
3.695	TCX	2826	6142
4.08		913	1992
4.379		1530	3852
4.547		1036	2329
4.66		520	1334
4.77		2313	4760
4.826		982	2029
4.935		726	1081
4.979		373	449
5.172		914	2019
5.304		720	1371
5.492		1041	2344
5.628		882	2367
6.003		1509	5443
6.11		2282	5169
6.226		382	720
6.283		2758	6121
6.418		2254	4681
6.528		336	436
6.576		1393	2014
6.845		1602	3532
6.933		659	1011
7.071		3986	8879
7.35		736	1338
7.416		2734	6204
7.642		208	818
7.83		514	1380
7.999		999	2440
8.375		316	696
8.716	DCB	4081	11347

ASX73 1374

MD16X1224B AAMD16XAA ICAL 1218999999 SW-846 8082

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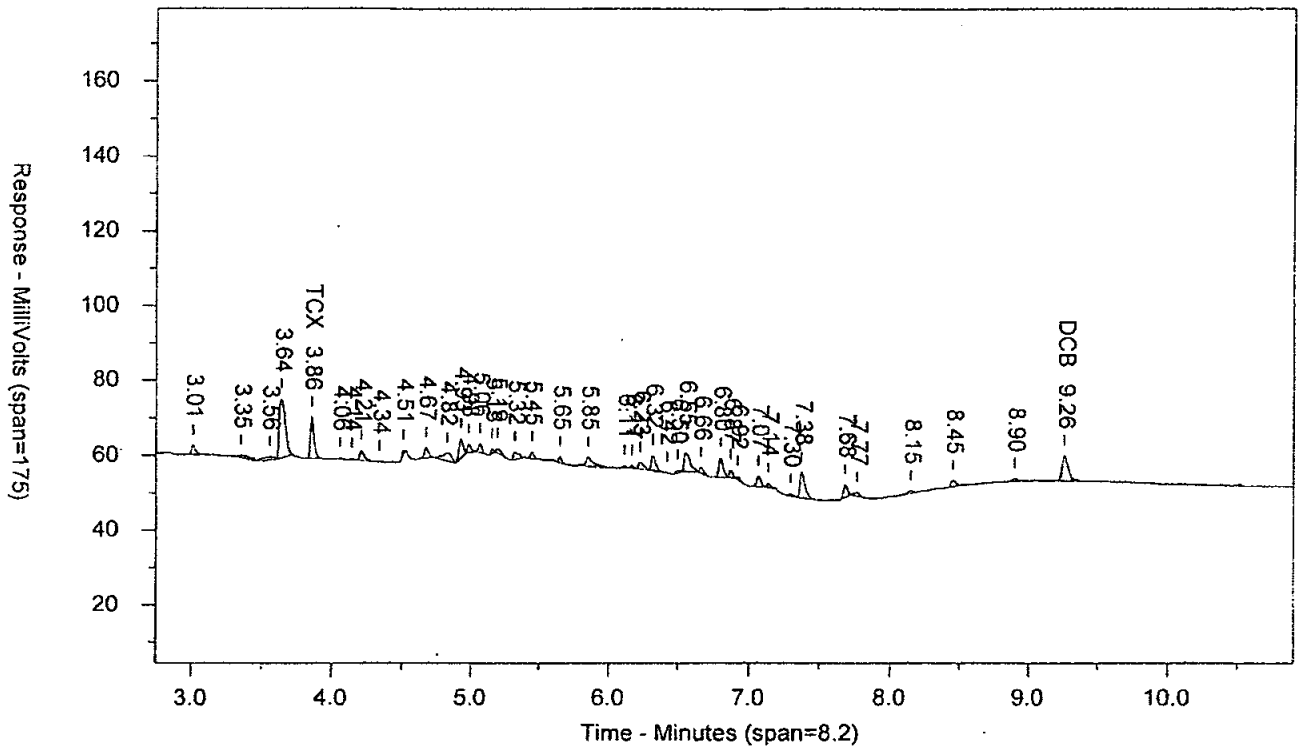

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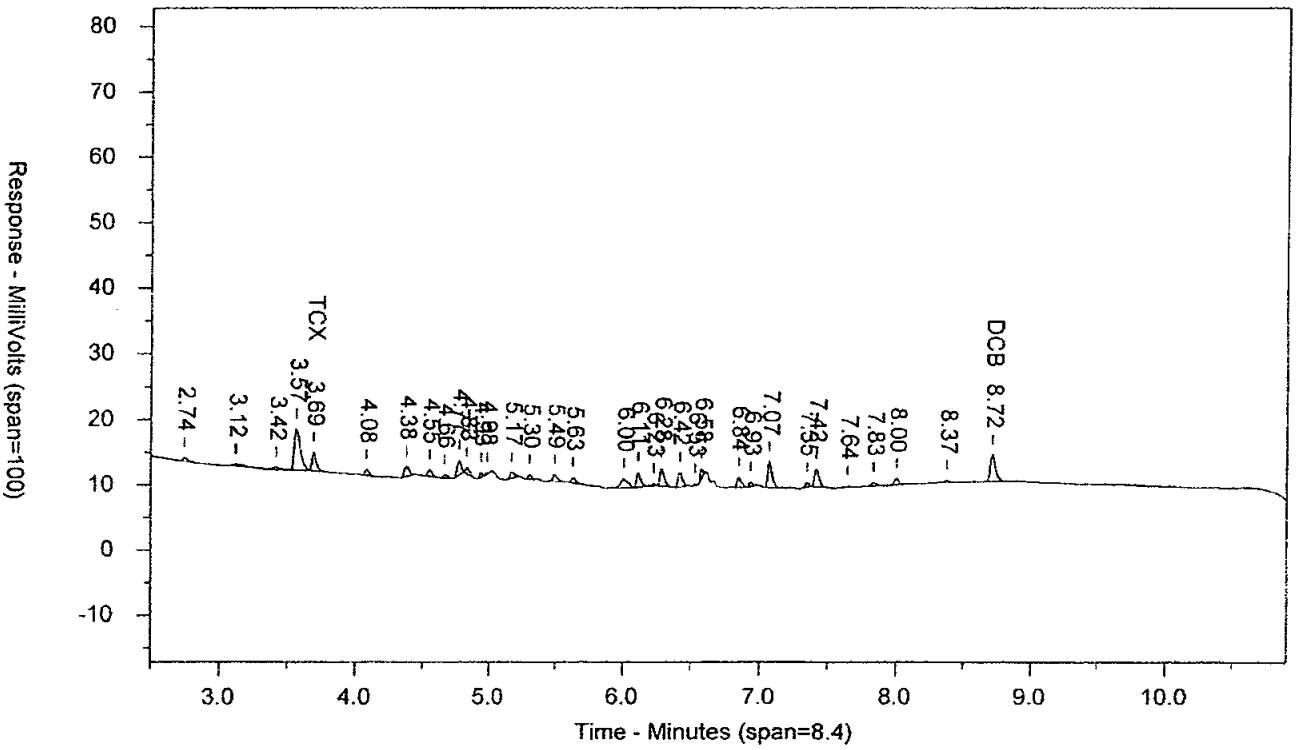

ASX73 1375

LANCASTER LABORATORIES

Sample Number: MD16X1224B AAMD16XAA ICAL 1218999999 Sample Weight: 1SW-846 8082
Injected On: 7/8/2012 10:22:54 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.856	11018	1.031	TCX	3.695	2826	.767	TCX
9.262	6791	-3.455	DCB	8.716	4081	1.076	DCB

Files:
Area File: 1p7190.028.RAW
Area File: 1p7190B.028.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 10:33:49 PM
File Reported On: 7/8/2012 at 10:33:55 PM

ASX73 1376

MD16X1224B AAMD16XAA ICAL 1218999999 SW-846 8082

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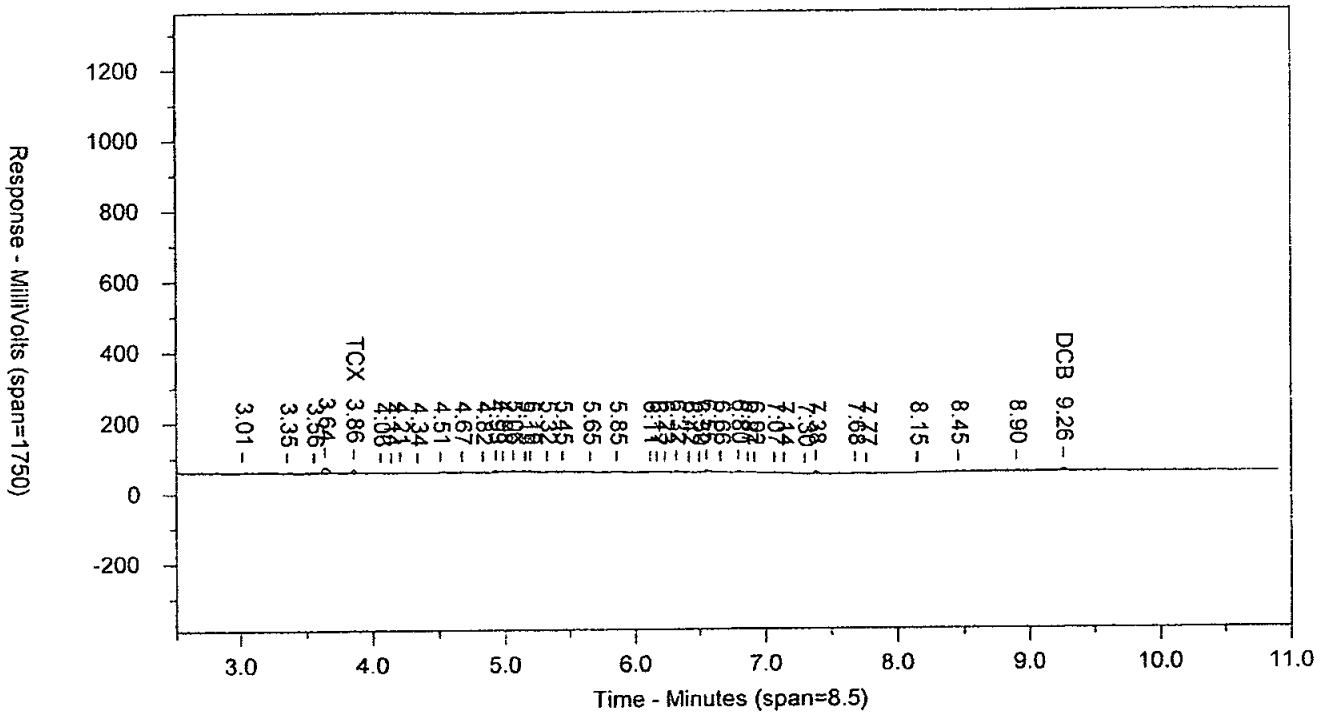

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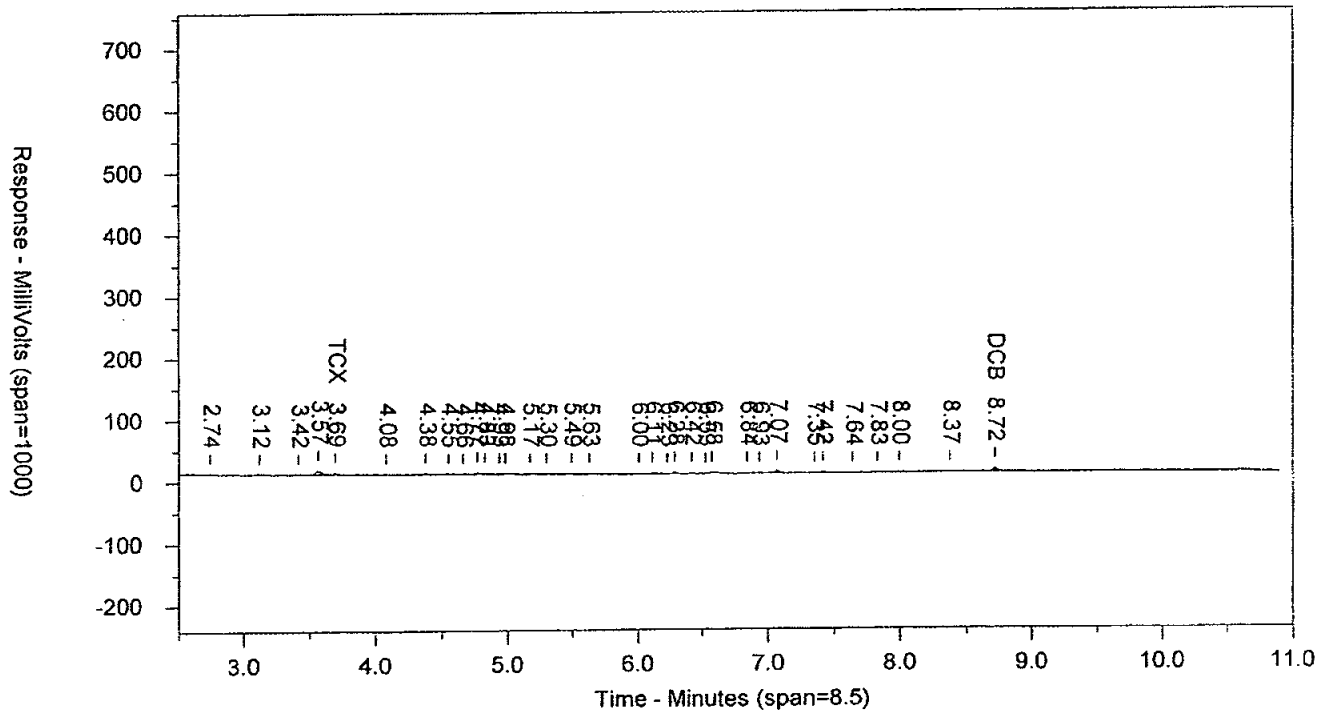

ASX73 1377

LANCASTER LABORATORIES

Sample Number: IC16X1224B NBIC16XNB CCAL 1218999999
Injected On: 7/8/2012 11:25:55 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.032.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

Injection Volume: 1 ul
Analyst: 2855

RT A	Compound A	Height A	Area A
1.876		1364	6603
2.058		458	1014
2.158		1181	8672
2.306		481	1798
2.752		232	529
2.794		183	248
2.926		2372	4279
3.013		3531	5698
3.064		553	830
3.36		1019	4614
3.591		299	2532
3.639		8304	28236
3.768		797	3550
3.857	TCX	401538	877348
4.06		7569	14907
4.137		13278	23433
4.207		42835	93047
4.338		5645	12295
4.507		19928	23177
4.526		9867	12825
4.627		1784	1797
4.671		49412	104894
4.774		733	858
4.842		15021	40922
4.925		94199	204697
4.979		34778	57659
5.063		41555	77455
5.154		20574	26035
5.194		22911	68788
5.326		36401	94957
5.396		5110	5152
5.445		25289	45194
5.497		3850	5072
5.608		626	748
5.656		30179	92074
5.798		3135	4624
5.854		32887	85261
6.03		1193	2046
6.113		12668	27358
6.168		13440	20761
6.23		30024	86392
6.318		63441	152176
6.424		7866	13884
6.492		10306	17420
6.554		75452	244857
6.661		27147	56991
6.754		3726	4304
6.797		79451	173281
6.87		31538	48727
6.92		17019	27386
7.068		49860	123108
7.141		17261	27234
7.189		7275	11009

ASX73 1378

RT A	Compound A	Height A	Area A
7.302		14763	28135
7.379		110673	309327
7.685		56732	116063
7.767		16303	42425
7.996		3811	9079
8.107		946	1543
8.151		11641	26706
8.457		30265	79698
8.55		1143	2049
8.902		12689	42578
9.264	DCB	217964	871821
10.175		263	875
10.399		157	846

ASX73 1379

LANCASTER LABORATORIES

Sample Number: IC16X1224B NBIC16XNB CCAL 1218999999
Injected On: 7/8/2012 11:25:55 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.032.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 ul
Analyst: 2855

RT B	Compound B	Height B	Area A
1.592		74223	763795
2.744		714	1282
2.798		415	827
3.566		2782	8986
3.696	TCX	154943	309759
3.92		2642	5523
4.004		4382	8938
4.081		16364	36162
4.24		2222	5118
4.379		28915	84026
4.548		20900	48271
4.676		6105	17898
4.77		47383	93468
4.824		14862	25889
4.936		14814	20402
4.978		6247	6947
5.013		12177	28063
5.173		19226	62829
5.305		11895	23719
5.367		2392	3678
5.493		15772	37824
5.576		1066	1385
5.629		15232	36243
5.832		604	1124
5.909		2708	4650
6.002		23953	84315
6.109		35919	74280
6.228		6640	11777
6.282		43377	89874
6.417		38846	74288
6.484		1466	1571
6.529		6340	8328
6.577		25023	32676
6.607		10992	13324
6.657		8602	12267
6.787		4328	7961
6.845		28160	60663
6.934		11754	17219
6.975		3177	10002
7.071		67987	144726
7.168		1107	1588
7.35		13943	24685
7.416		49226	109607
7.641		2190	4272
7.704		751	1050
7.83		7974	18800
8.001		19559	53064
8.376		7528	19441
8.716	DCB	142185	423947

ASX73 1360

IC16X1224B NBIC16XNB CCAL 1218999999

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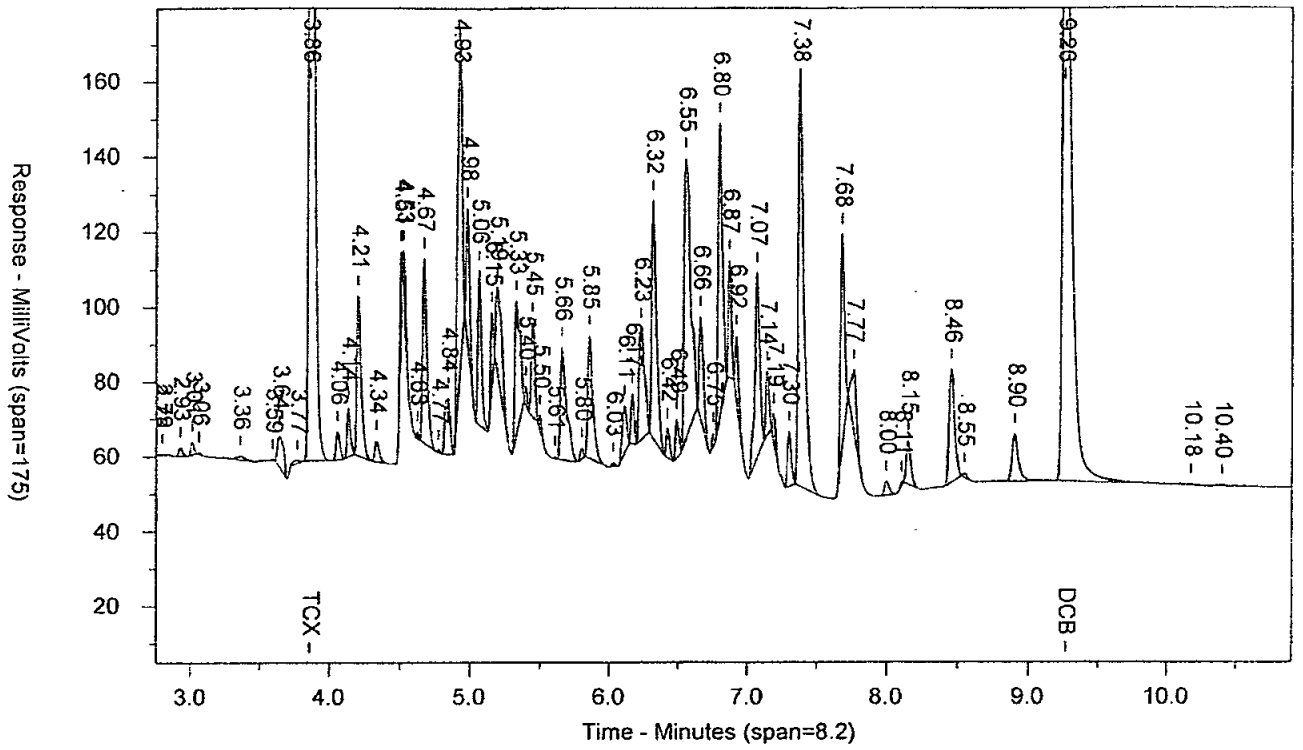

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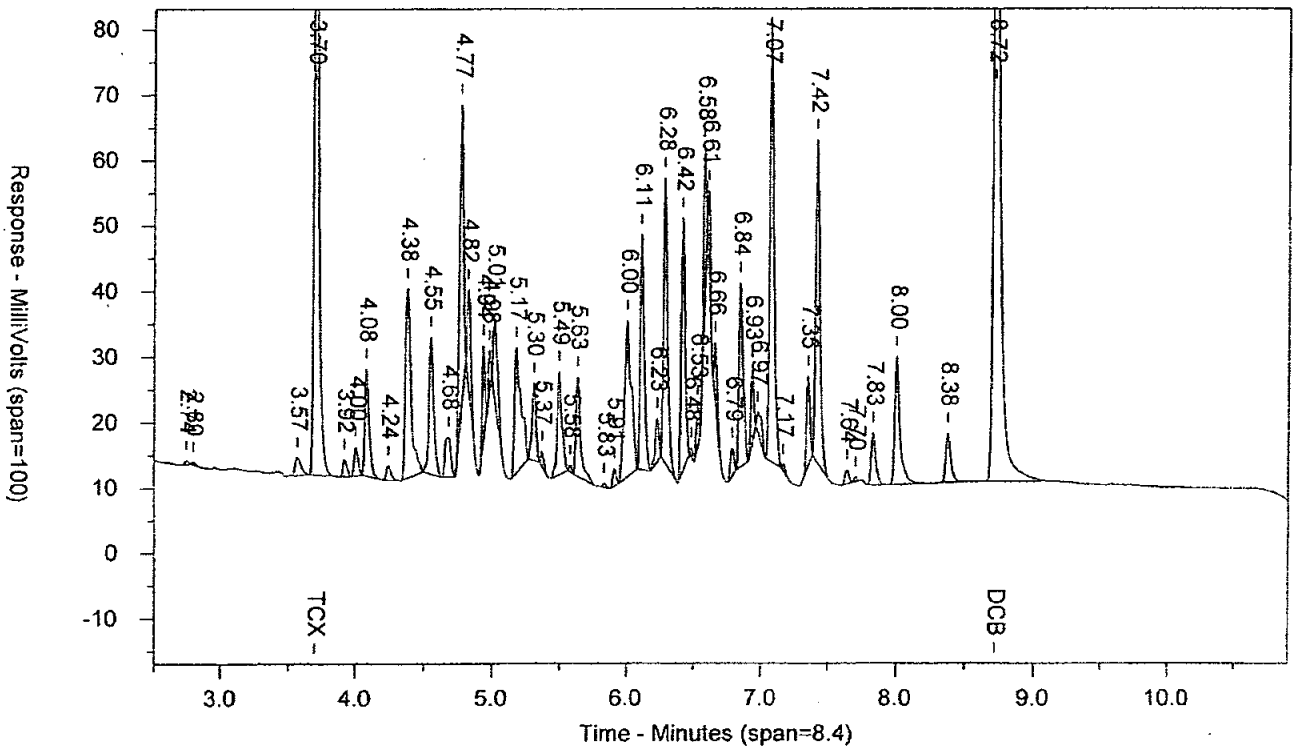

ASX73 1381

LANCASTER LABORATORIES

Sample Number: IC16X1224B NBIC16XNB CCAL 1218999999
Injected On: 7/8/2012 11:25:55 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1
Dilution Factor: 1

Threshold: 3
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
3.857	401538	37.583	TCX	3.696	154943	42.067	TCX
9.264	217964	40.694	DCB	8.716	142185	37.503	DCB

Files:
Area File: 1p7190.032.RAW
Area File: 1p7190B.032.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 11:36:51 PM
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ASX73 1382

IC16X1224B NBIC16XNB CCAL 1218999999

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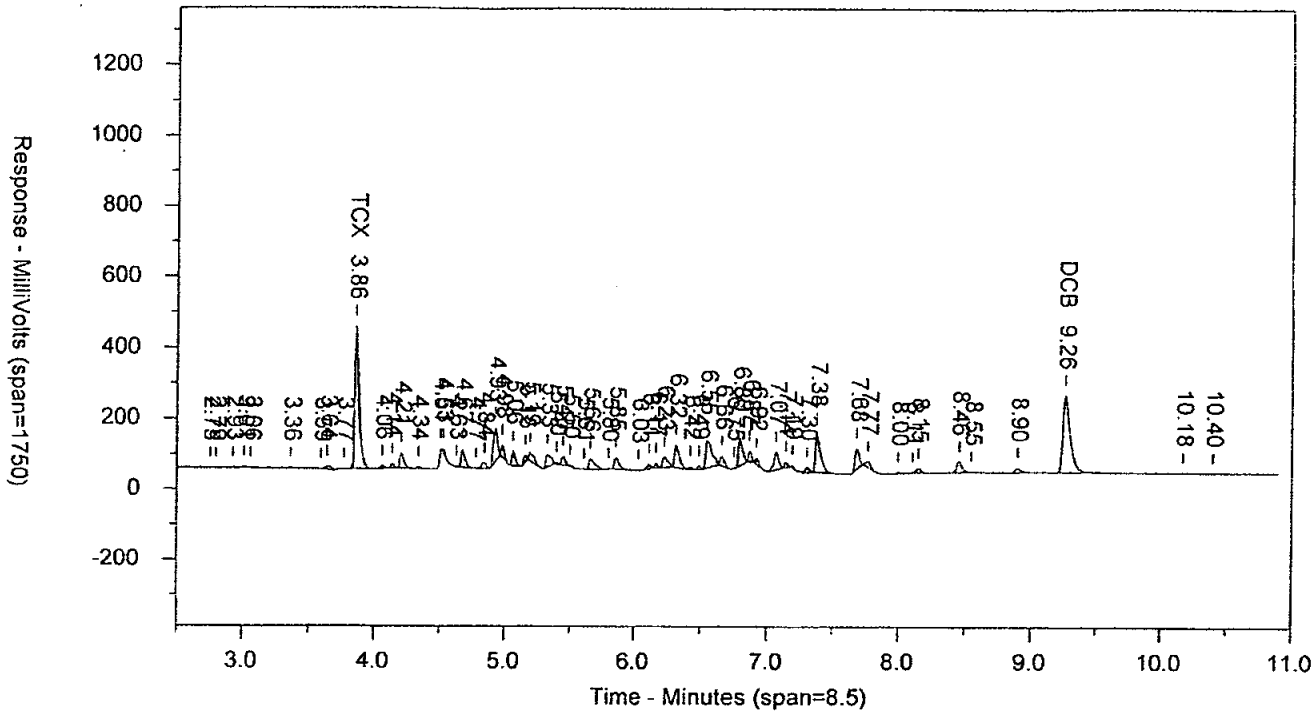

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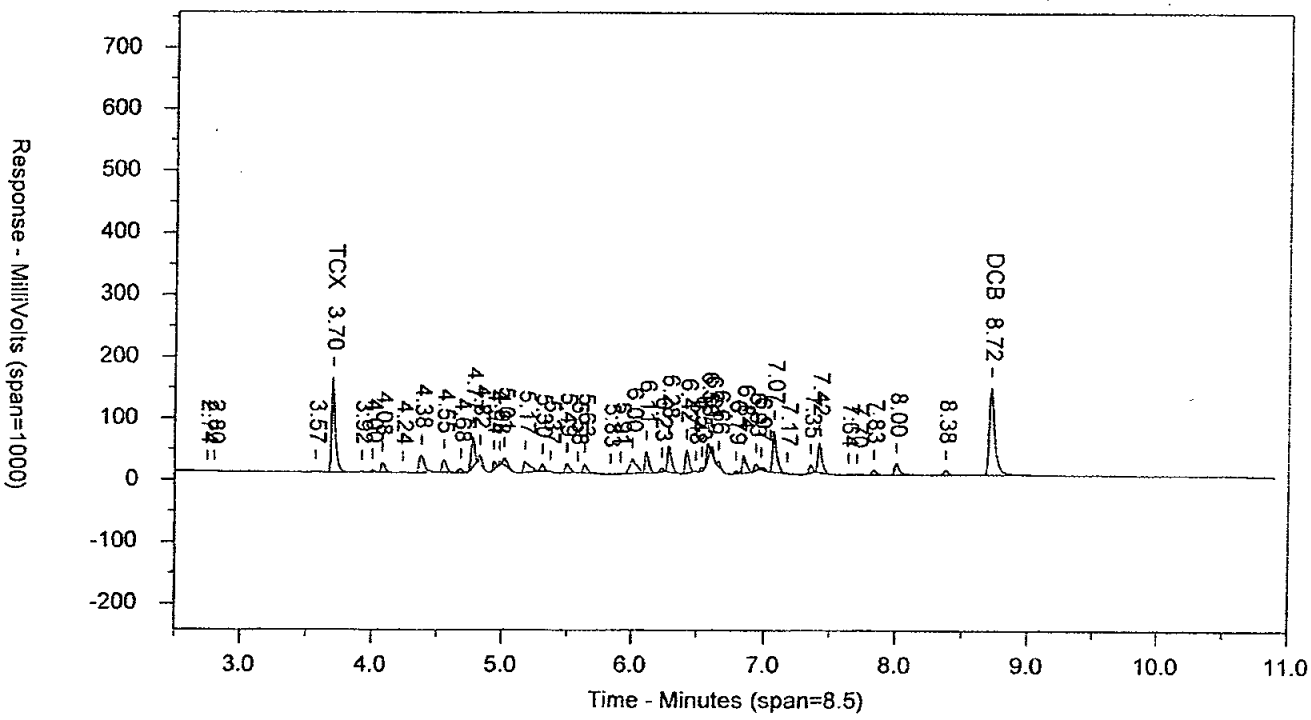

LANCASTER LABORATORIES

Sample Number: IC48X1224A CCIC48XCC CCAL 1218999999 Injection Volume: 1 ul
Injected On: 7/8/2012 11:40:38 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.033.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.532		4464	48631
1.804		10475	64871
1.966		16414	178476
2.21		10977	88442
2.309		5515	35938
2.384		1250	5709
2.521		8070	21471
2.688		3249	30748
2.826		2074	11178
2.925		1854	3517
3.013		2820	4552
3.234		3410	22155
3.354		3328	13830
3.591		422	2519
3.638		14874	38636
3.8		6352	28418
3.858	TCX	366433	823633
4.06		501	743
4.135		11346	35425
4.315		4872	42389
4.416		1657	7165
4.508		24868	76977
4.633		637	972
4.83		4306	23533
4.925		47955	110866
4.979		11944	19032
5.062		24646	60457
5.156		20831	27708
5.194		24918	79024
5.326		47970	119153
5.397		7576	7966
5.445		33625	57866
5.497		8161	21259
5.615		2151	3505
5.679		26986	61073
5.709		28650	44123
5.795		1798	2023
5.849		55680	249626
6.032		10189	19466
6.095		11035	15625
6.13		4593	4490
6.169		25419	47693
6.272		11388	26658
6.375		3537	6354
6.428		14697	29995
6.521		764	885
6.57		2536	6399
6.661		20285	44421
6.794		5931	7782
6.945		793	5952
7.047		1439	2697
7.111		1471	14741
7.304		1532	6287

ASX73 1384

RT A	Compound A	Height A	Area A
7.376		435	934
7.613		1613	5763
7.998		1610	26624
8.131		1769	6506
8.731		2514	88933
8.901		2386	10331
9.265	DCB	207835	839331
9.656		998	16955
10.177		239	773
10.63		427	4699

ASX73 1385

LANCASTER LABORATORIES

Sample Number: IC48X1224A CCIC48XCC CCAL 1218999999 Injection Volume: 1 ul
Injected On: 7/8/2012 11:40:38 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.033.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.596		16287	106742
1.695		10290	48801
1.872		3435	14101
2.15		3345	15640
2.535		2624	7562
2.746		511	878
2.798		379	627
2.965		2323	6322
3.406		2670	8447
3.566		3418	10080
3.696	TCX	146682	288711
3.831		2075	6038
3.999		1611	3474
4.081		1741	3611
4.234		2758	9227
4.377		11576	33566
4.548		6051	10802
4.605		724	1155
4.659		1301	3045
4.77		21809	45807
4.822		4045	7003
4.936		6065	7957
4.979		8341	10718
5.013		11790	27443
5.172		21160	42780
5.231		3040	3723
5.305		14612	26505
5.366		3855	5966
5.492		20532	33672
5.526		12189	16017
5.63		7206	10470
5.685		8902	14219
5.719		4977	6369
5.832		5712	10926
5.911		7539	11531
5.954		1901	1821
5.991		12645	21345
6.116		5610	12973
6.201		10550	21265
6.282		665	866
6.413		3195	8177
6.483		9135	17971
6.579		2583	6579
6.739		2556	9880
6.878		790	1547
7.071		2611	9471
7.426		2241	8148
7.643		1021	2683
7.833		2005	7706
8.317		1231	3106
8.716	DCB	136412	385468
8.904		1359	4915
9.662		1491	8488
10.637		1674	17252

ASX73 1386

IC48X1224A CCIC48XCC CCAL 1218999999

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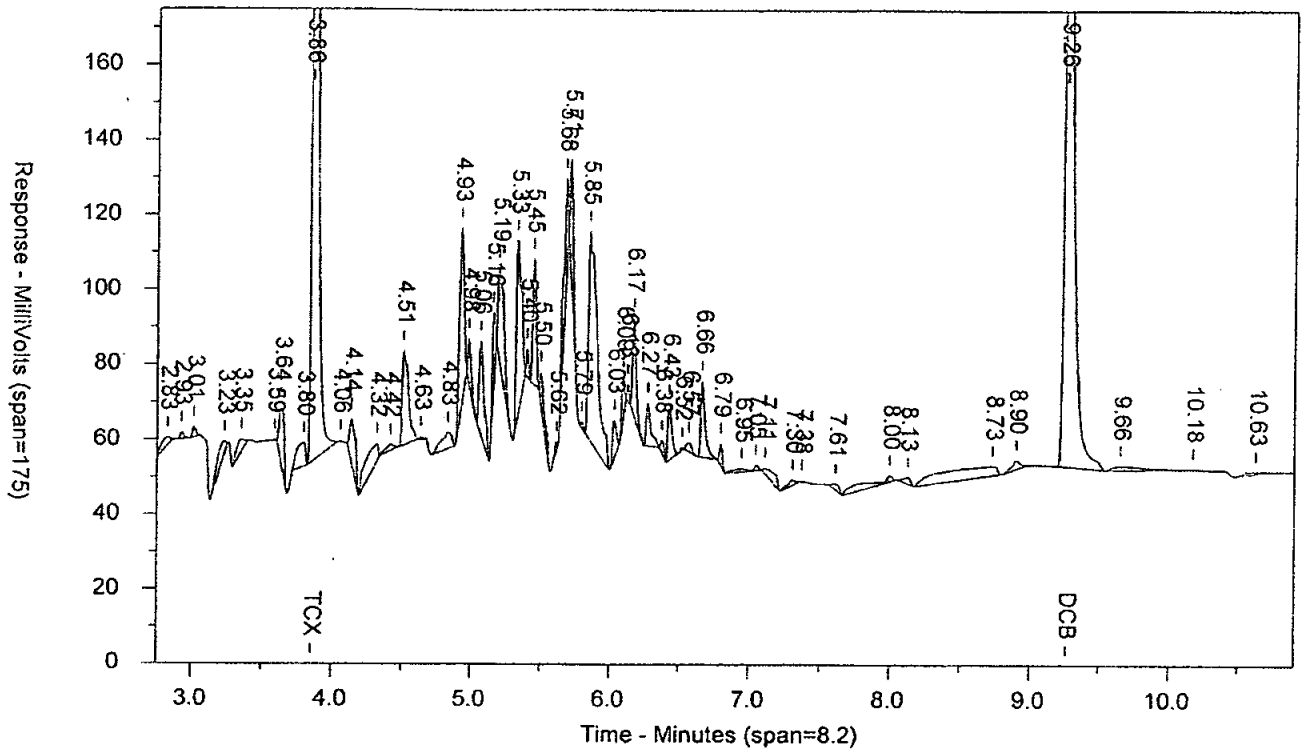

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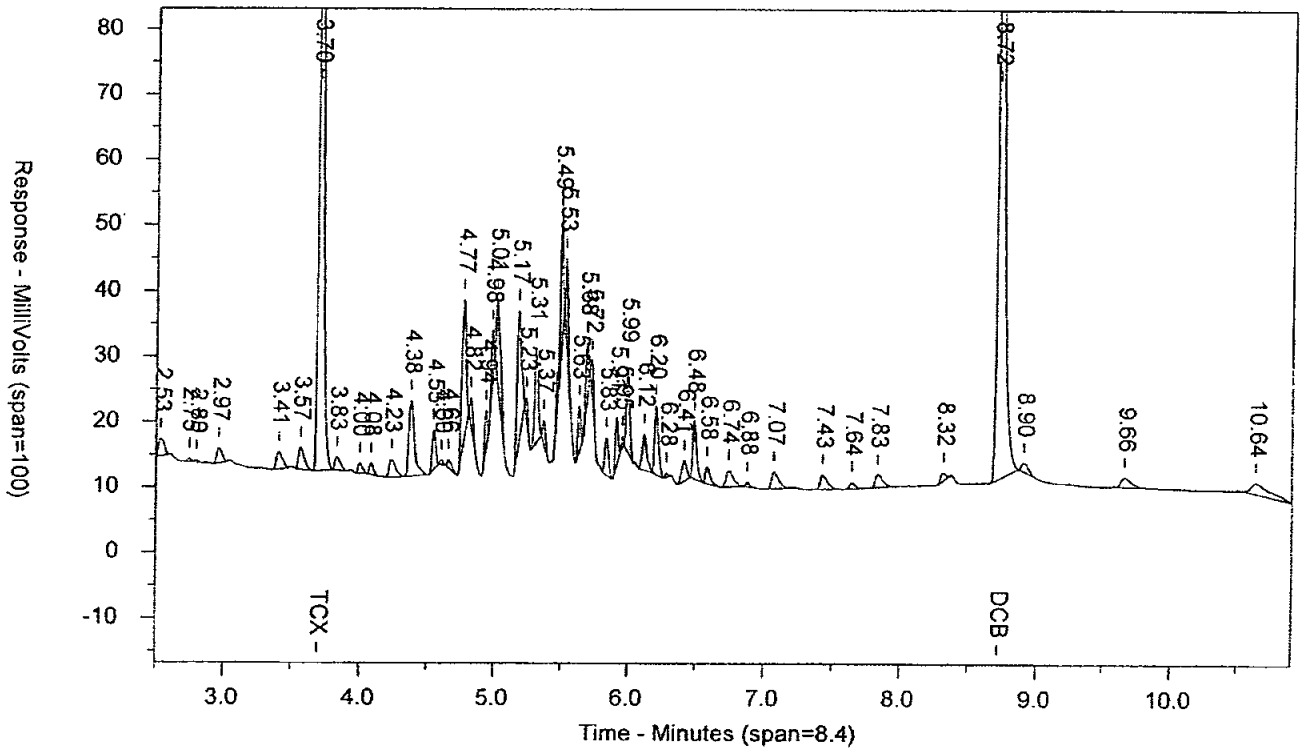

LANCASTER LABORATORIES

Sample Number: IC48X1224A CCIC48XCC CCAL 1218999999 Sample Weight: 1
Injected On: 7/8/2012 11:40:38 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.858	366433	34.297	TCX	3.696	146682	39.824	TCX
9.265	207835	38.576	DCB	8.716	136412	35.98	DCB

Files:
Area File: 1p7190.033.RAW
Area File: 1p7190B.033.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/8/2012 11:51:33 PM
File Reported On: 7/8/2012 at 11:51:37 PM

ASX73 1388

IC48X1224A CCIC48XCC CCAL 1218999999

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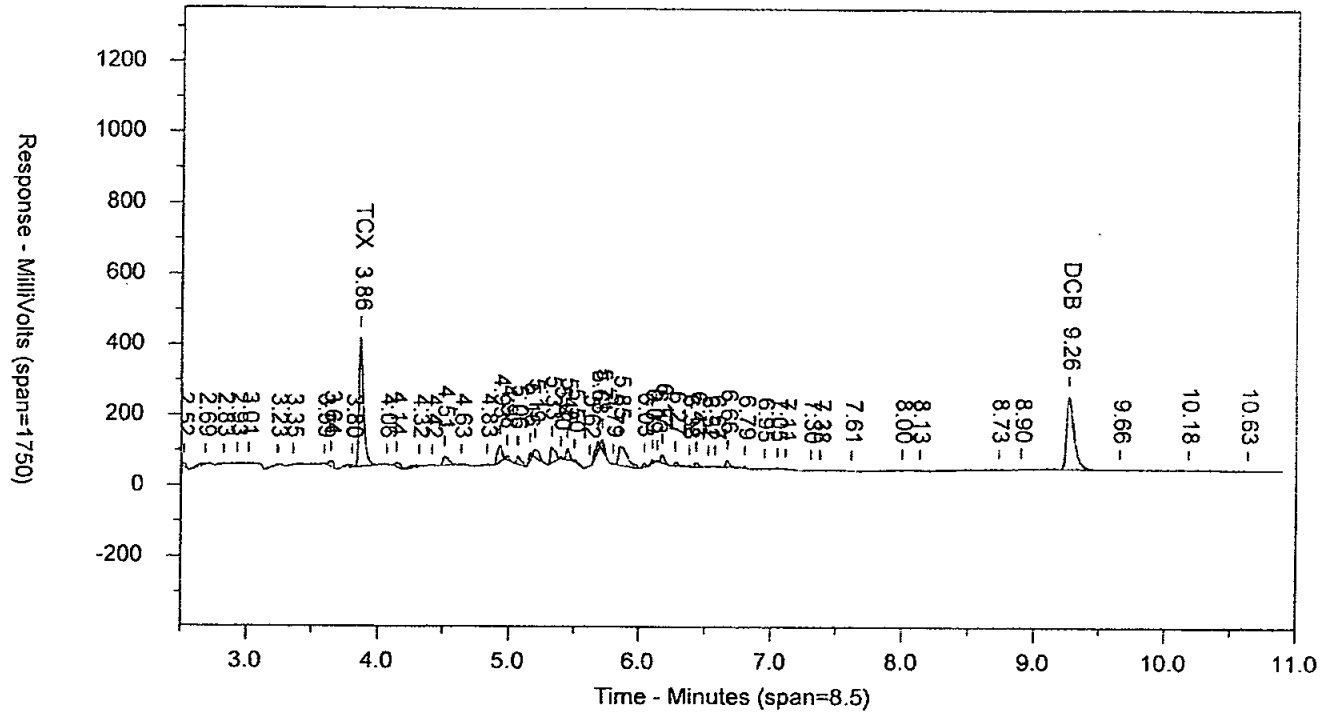

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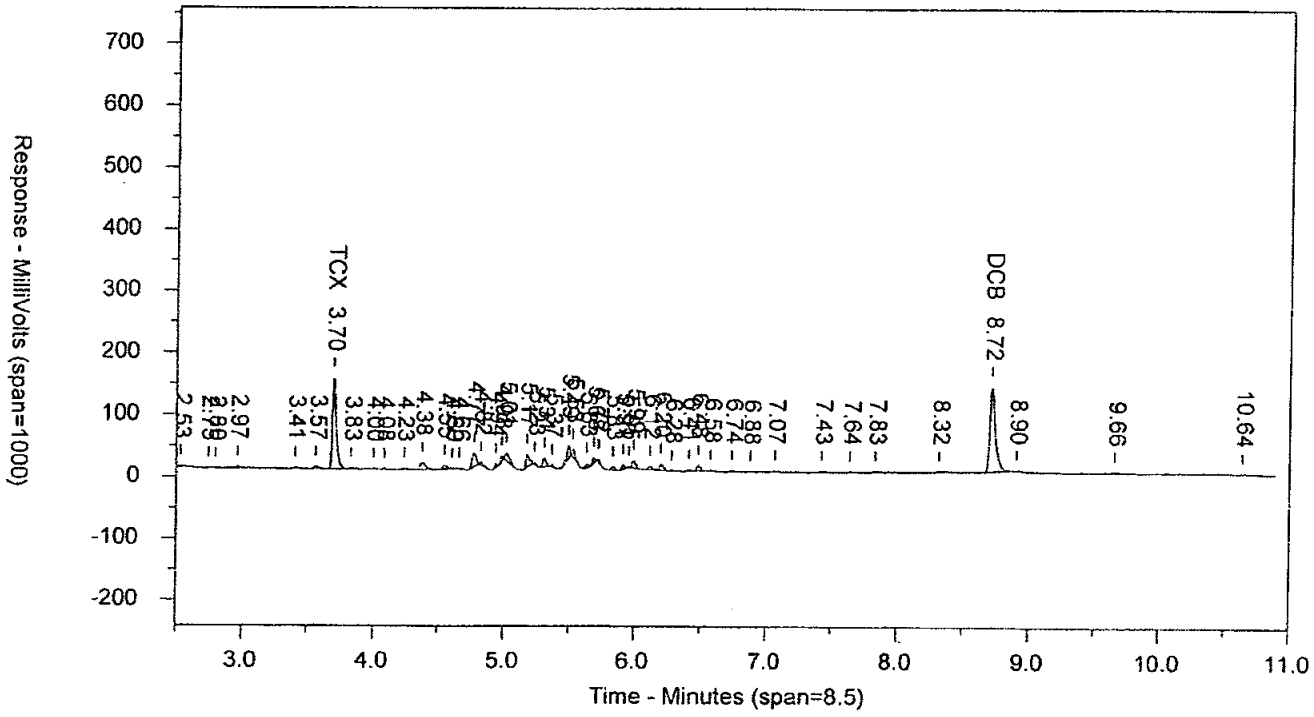

ASX73 1359

LANCASTER LABORATORIES

Sample Number: IC54X1224A AAIC54XAA CCAL 1218999999 Injection VolumeSW846 8082
Injected On: 7/8/2012 11:55:22 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7190.034.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.528		2987	7711
1.77		897	2825
1.878		511	1407
2.058		292	541
2.156		804	4940
2.744		188	441
2.835		471	1582
2.924		2283	4018
3.01		2668	4314
3.061		553	815
3.346		863	4120
3.554		241	1215
3.592		325	306
3.636		9689	28314
3.854	TCX	394359	852217
4.131		5725	9716
4.204		737	1534
4.313		734	1146
4.505		1025	2451
4.668		1255	3361
4.753		486	797
4.819		1023	4150
4.931		1820	4261
4.981		630	934
5.057		1571	4143
5.151		47900	159070
5.322		28056	68848
5.443		9680	16331
5.604		1386	1827
5.652		28534	33955
5.672		8719	8366
5.795		12321	17260
5.849		73716	120328
5.888		12884	17594
5.97		2905	3609
6.027		27161	48497
6.09		46557	102218
6.165		86128	176986
6.267		9567	12149
6.316		32187	81046
6.423		76865	190073
6.567		50811	158654
6.658		53557	103952
6.745		3850	5550
6.794		79310	232899
6.915		1310	2398
7.046		26009	71806
7.137		1742	2482
7.188		1722	2673
7.298		14507	30462
7.375		9733	19622
7.684		9683	35553
7.996		1671	4569

ASX73 1398

RT A	Compound A	Height A	Area A
8.098		359	576
8.349		422	4181
8.458		415	1131
8.756		147	1820
8.896		1727	5151
9.259	DCB	210813	863151
10.007		150	1225
10.168		242	853

ASX73 1391

LANCASTER LABORATORIES

Sample Number: IC54X1224A AAIC54XAA CCAL 1218999999 Injection Volume: 1 SW-846 8082
Injected On: 7/8/2012 11:55:22 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7190B.034.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.593		20692	234120
2.74		547	969
2.796		468	934
3.087		267	1911
3.414		429	1674
3.564		3908	11665
3.692	TCX	151304	299042
3.994		1612	3188
4.378		576	1446
4.452		263	802
4.649		374	903
4.765		796	1589
4.977		22636	70373
5.168		12431	31317
5.303		3976	7328
5.419		399	535
5.489		45896	93583
5.572		4970	6640
5.625		32290	46568
5.67		6050	6176
5.697		4654	7469
5.782		1753	2262
5.83		15206	29114
5.907		27238	40930
5.987		58056	130926
6.109		27092	59835
6.197		38316	81376
6.279		23375	49240
6.413		24354	44329
6.479		21054	30842
6.521		2555	2715
6.575		45964	118449
6.737		519	747
6.799		1971	2923
6.876		13224	30267
6.972		618	1256
7.063		10553	34209
7.412		6125	14851
7.638		1060	3226
7.83		541	2209
7.998		272	565
8.372		1050	3884
8.711	DCB	139679	434486
9.66		273	1759
10.633		529	8586

ASX73 1392

IC54X1224A AAIC54XAA CCAL 1218999999 SW-846 8082

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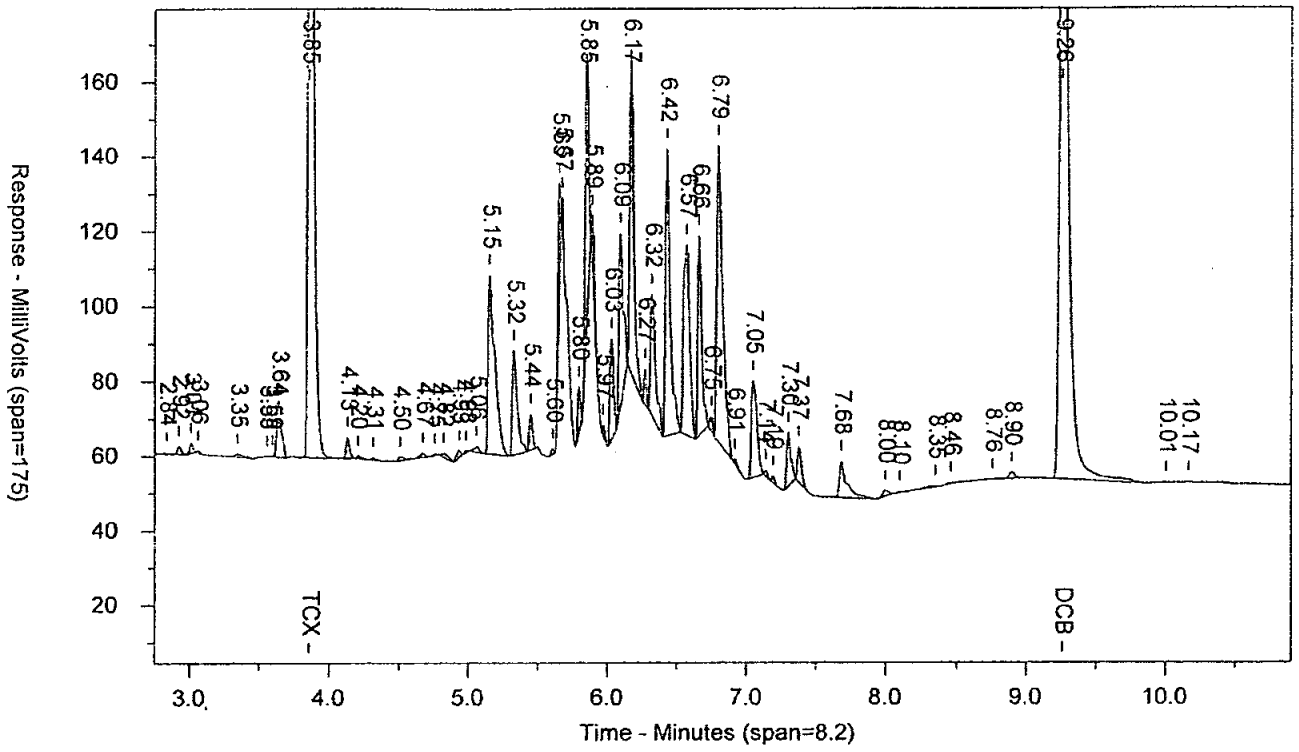

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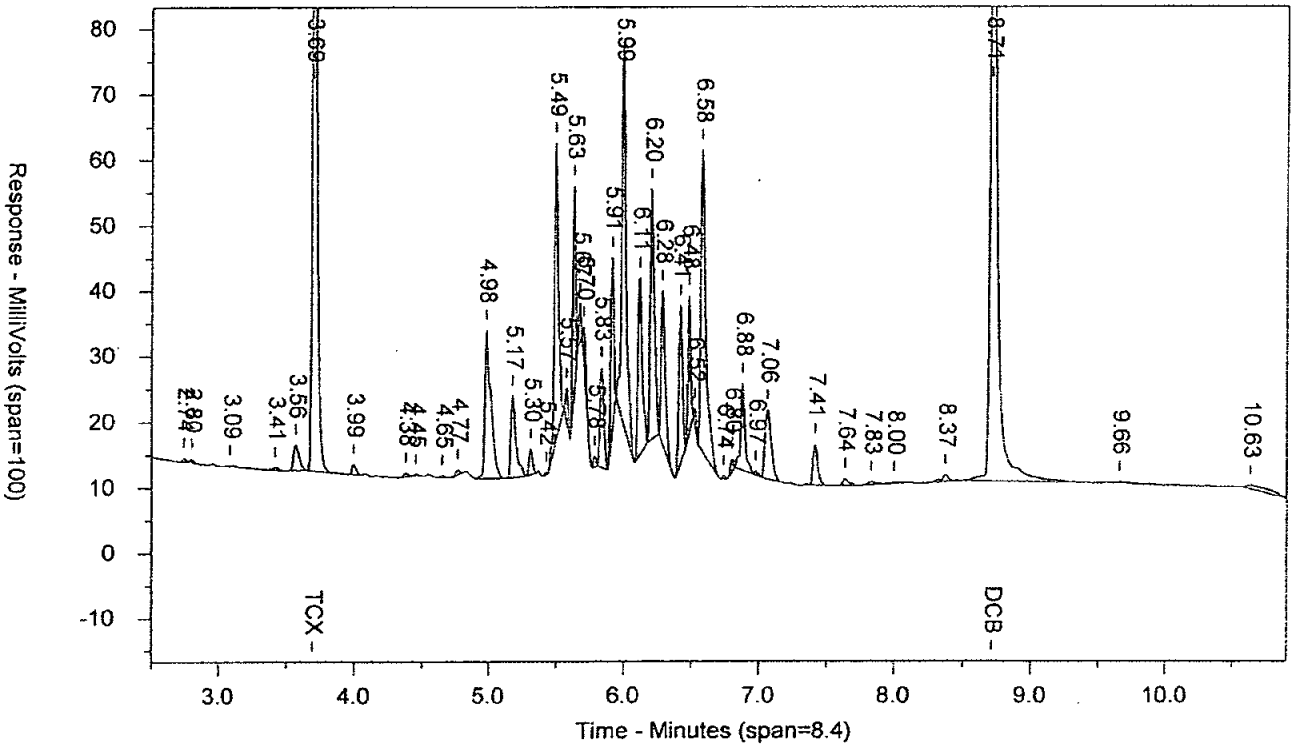

ASX73 1393

LANCASTER LABORATORIES

Sample Number: IC54X1224A AAIC54XAA CCAL 1218999999
Injected On: 7/8/2012 11:55:22 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.854	394359	36.911	TCX	3.692	151304	41.079	TCX
9.259	210813	39.199	DCB	8.711	139679	36.842	DCB

Files:
Area File: 1p7190.034.RAW
Area File: 1p7190B.034.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/9/2012 12:06:18 AM
File Reported On: 7/9/2012 at 12:06:27 AM

ASX73 1394

IC54X1224A AAIC54XAA CCAL 1218999999 SW-846 8082

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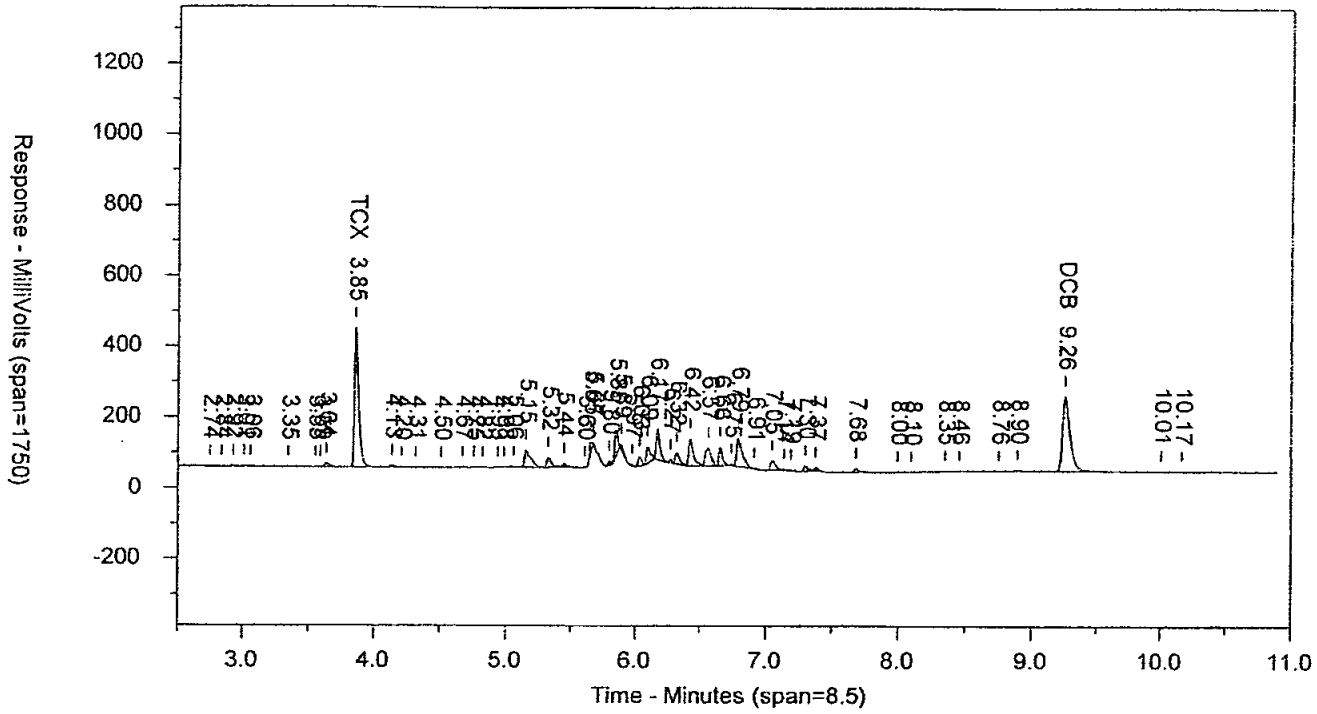

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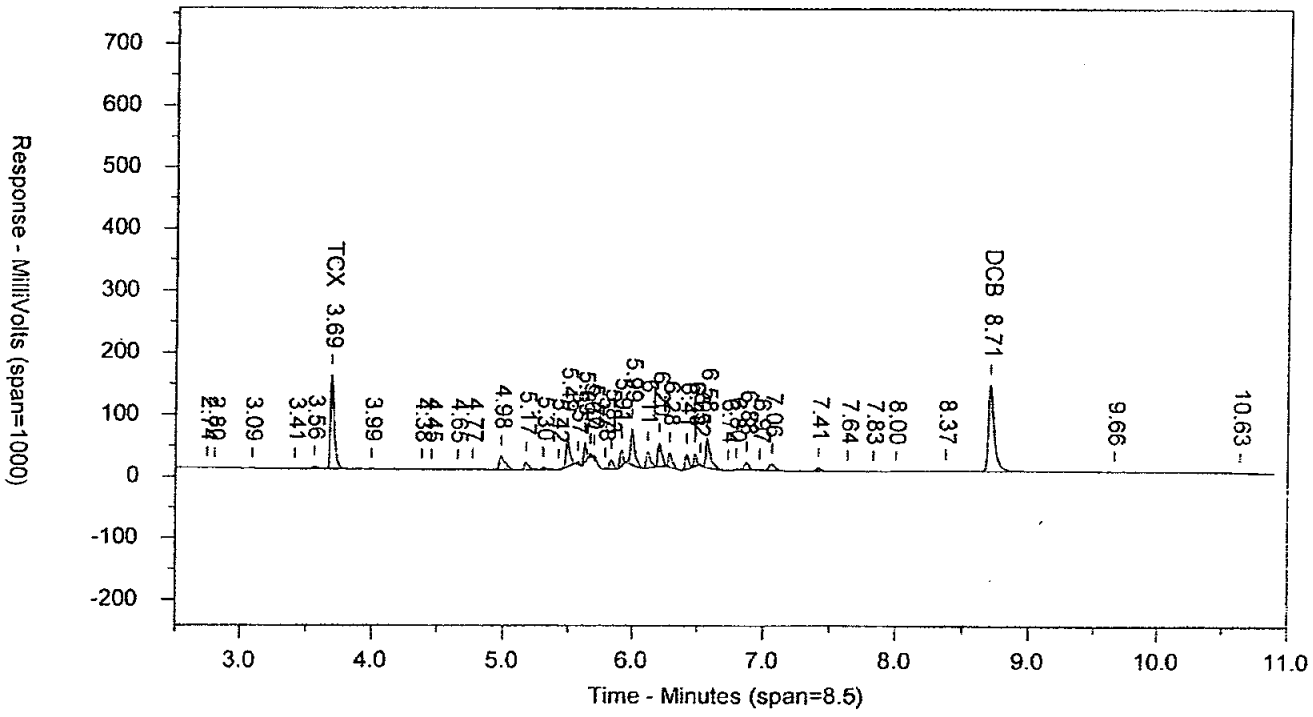

ASX73 1395

LANCASTER LABORATORIES

Sample Number: AR1631224B VYAR163VY CCAL 1220099999 Injection Volume: SW846 8082
Injected On: 7/20/2012 2:16:09 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.016.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.773		1085	2956
2.043		3218	51787
2.751		1286	2132
2.833		1343	5946
2.926		2029	3808
3.009		1832	2936
3.063		473	620
3.273		331	649
3.357		999	2839
3.505		241	575
3.628		6341	36698
3.855	TCX	363380	798937
4.057		6370	12731
4.135		11496	20240
4.203		36981	79721
4.335		4587	9996
4.504		16689	19654
4.523		9447	10891
4.623		1475	1454
4.668		41751	87009
4.839		11224	29469
4.922		84808	183375
4.975		31131	51264
5.059		35772	67063
5.15		17602	22569
5.19		19526	57964
5.322		31579	82204
5.392		4738	4767
5.442		26829	47993
5.493		4570	6157
5.605		734	876
5.652		33257	126024
5.794		2579	3666
5.85		30277	80381
6.025		1016	1729
6.108		11181	23755
6.164		11667	17996
6.225		27168	77651
6.313		58073	140108
6.441		6230	15312
6.487		7748	12272
6.551		68388	221801
6.656		24093	50101
6.75		2820	3192
6.792		72333	157778
6.866		28675	44062
6.915		15207	24421
7.063		44818	111856
7.136		15264	24114
7.184		6551	9816
7.297		12640	24028
7.374		98752	283540
7.679		49454	100630

RT A	Compound A	Height A	Area A
7.76		14453	37347
7.989		3521	8447
8.143		11152	36361
8.448		24085	63809
8.541		701	1247
8.891		10211	35474
9.253	DCB	189706	741142
10.157		183	628

ASX73 1397

LANCASTER LABORATORIES

Sample Number: AR1631224B VYAR163VY CCAL 1220099999
Injected On: 7/20/2012 2:16:09 AM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.016.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 ulSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.596		119311	1183420
2.178		1008	14510
2.744		451	809
2.798		486	973
2.891		512	1333
3.421		678	3695
3.563		1061	4115
3.694	TCX	151658	301271
3.918		2539	5252
4.001		4338	8717
4.078		15639	34176
4.237		1999	4508
4.376		26614	76668
4.545		19737	45704
4.661		6310	18524
4.767		44046	86777
4.821		13861	24138
4.932		13855	19341
4.976		5924	6556
5.01		10967	24976
5.169		15423	32650
5.302		13753	27048
5.363		3191	4871
5.489		19837	50462
5.626		14358	28472
5.827		602	1119
5.906		2410	3811
5.999		23973	91652
6.105		35427	73069
6.225		6643	11421
6.279		42063	86613
6.413		38379	73391
6.48		1502	1639
6.526		6448	8486
6.574		24838	32016
6.604		11093	13616
6.654		8364	11905
6.783		4141	7614
6.842		27882	59758
6.931		11347	16583
6.971		1661	1480
7.067		66127	142593
7.346		13930	24784
7.412		47468	107136
7.636		2208	4326
7.7		596	821
7.825		7520	18126
7.996		17982	47786
8.371		6884	17395
8.707	DCB	136603	385314

ASX73 1368

AR1631224B VYAR163VY CCAL 1220099999 SW-846 8082

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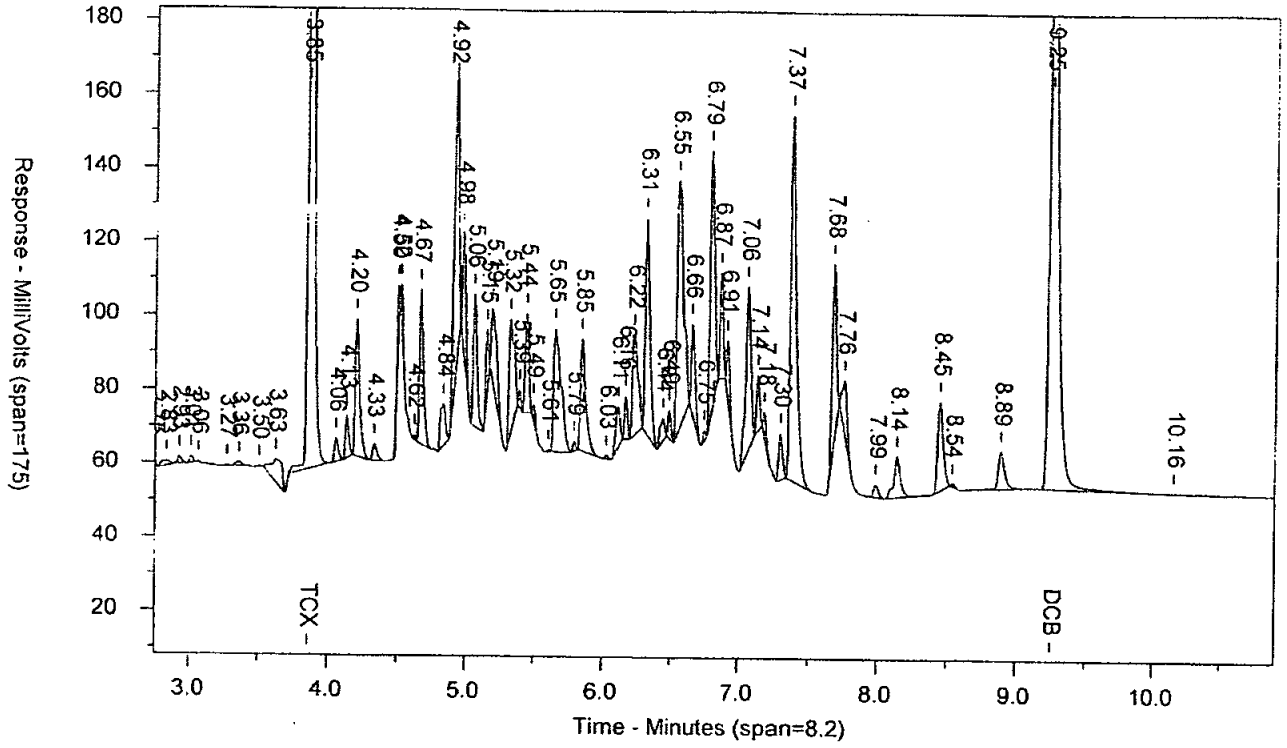

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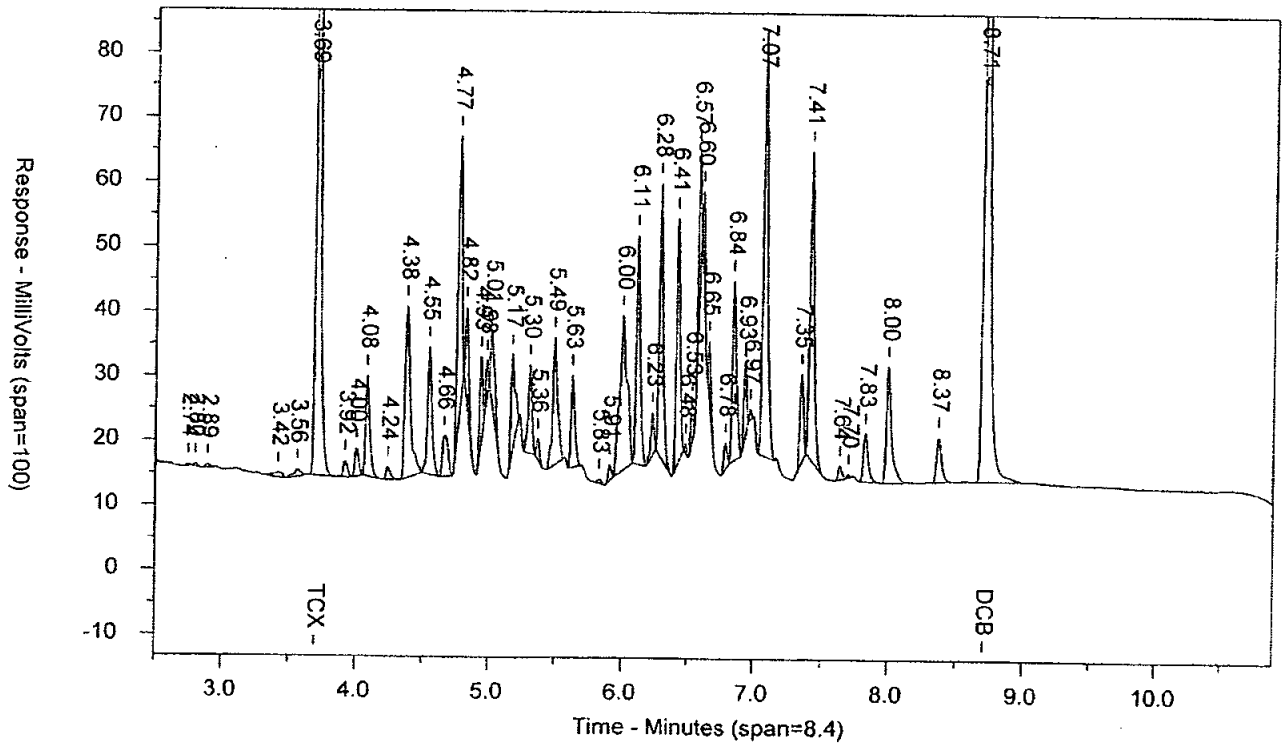

LANCASTER LABORATORIES

Sample Number: AR1631224B VYAR163VY CCAL 1220099999
Injected On: 7/20/2012 2:16:09 AM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.855	363380	34.011	TCX	3.694	151658	41.175	TCX
9.253	189706	34.786	DCB	8.707	136603	36.031	DCB

Files:
Area File: 9p7190.016.RAW
Area File: 9p7190B.016.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 2:26:45 AM
File Reported On: 7/20/2012 at 2:27:08 AM

ASX73 1488

AR1631224B VYAR163VY CCAL 1220099999 SW-846 8082

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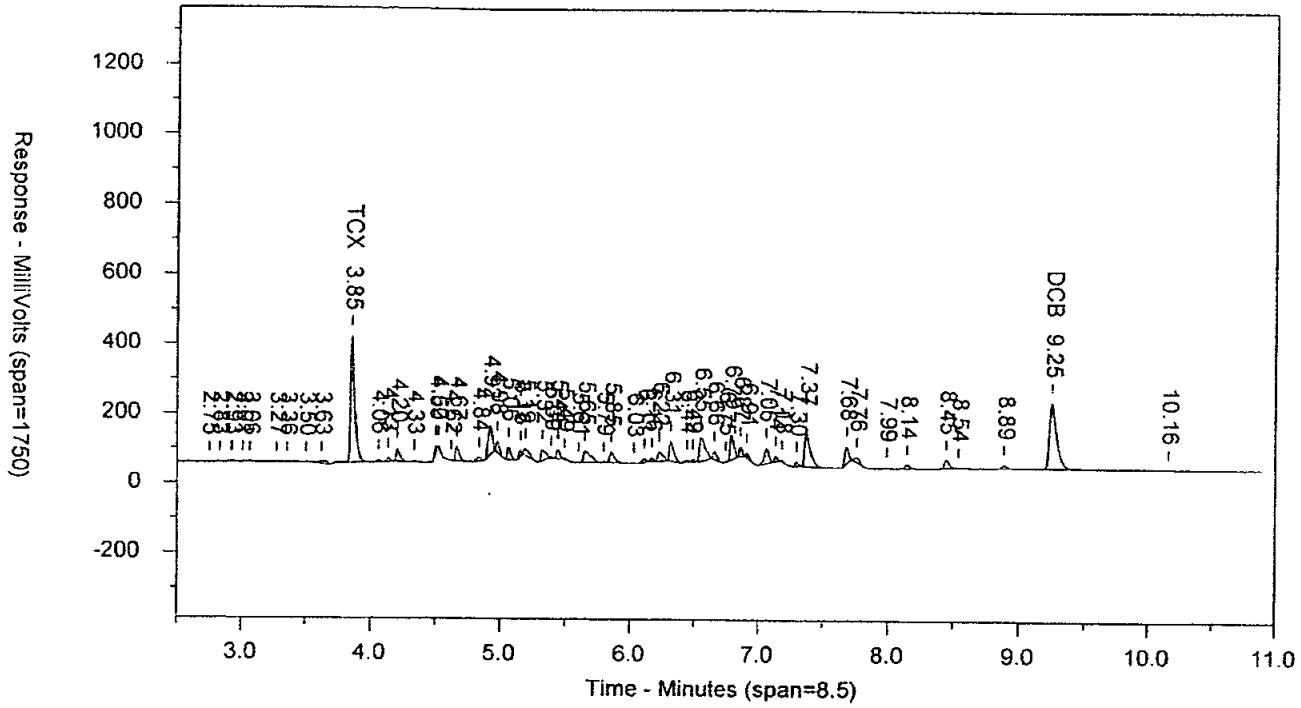

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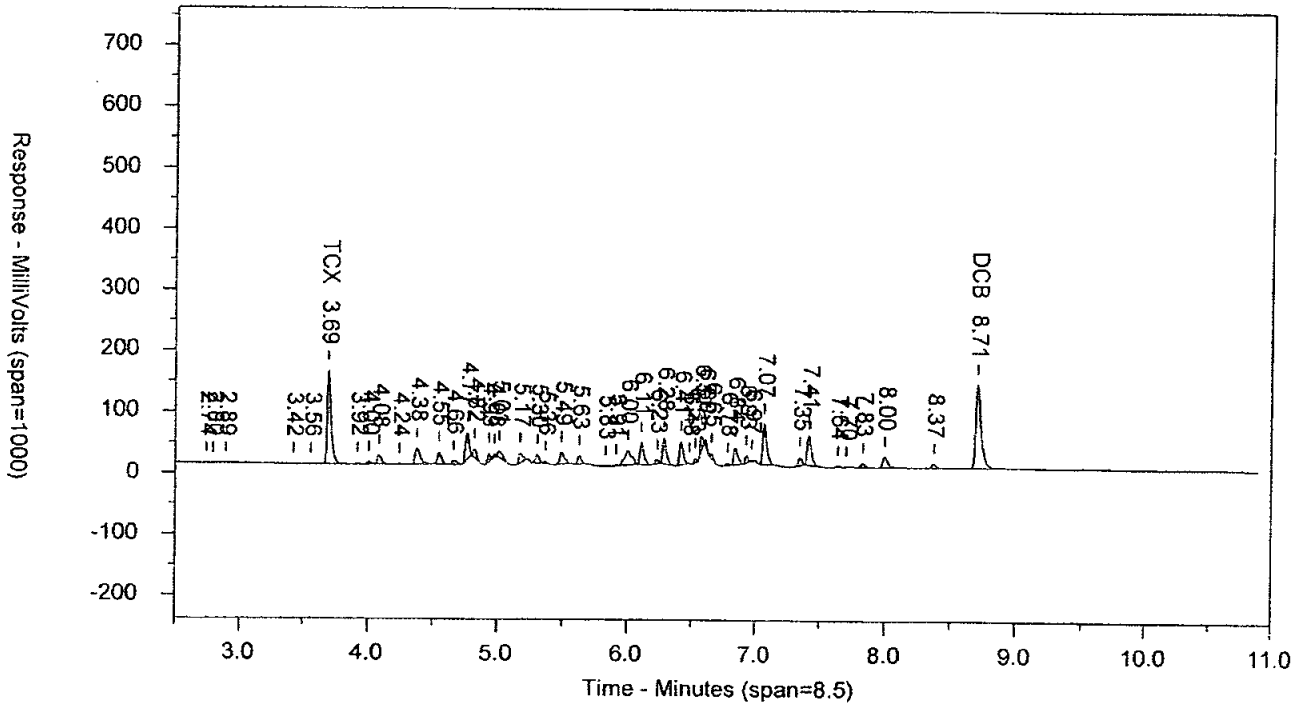

ASX73 1481

LANCASTER LABORATORIES

Sample Number: IBLKX1224C NWPIBLKNW PIBLK1220099999 Injection Volume: SW-846 8082
Injected On: 7/20/2012 2:30:44 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.017.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.52		943	2439
1.653		970	1888
1.782		1681	8306
1.943		318	1119
2.036		15644	32479
2.11		18491	331036
2.603		2496	46630
2.842		3498	18087
2.927		929	1557
3.01		2376	9648
3.175		730	2944
3.272		296	519
3.349		685	1718
3.438		312	566
3.5		344	704
3.624		2670	8875
3.756		800	2559
3.856	TCX	188498	392989
4.132		3045	6942
4.25		642	3243
4.315		252	243
4.461		248	883
4.586		303	866
4.638		1328	2731
4.841		311	7004
4.882		976	1488
5.03		2792	19814
5.187		1165	8779
5.466		285	646
5.627		1113	5677
5.688		1873	2817
5.756		109	178
5.886		2374	21033
6.071		822	5357
6.445		14308	49988
6.636		541	1120
6.711		1710	11105
6.873		467	1942
7.17		1414	3579
7.27		905	9520
7.676		760	1219
7.8		726	6901
7.988		1412	4106
8.115		1029	4960
8.719		510	13867
8.892		892	5103
9.253	DCB	102894	380321
9.552		271	3744
10.479		166	808

ASX73 1482

LANCASTER LABORATORIES

Sample Number: IBLKX1224C NWPIBLKNW PIBLK1220099999
Injected On: 7/20/2012 2:30:44 AM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.017.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 ulSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.604		21848	249664
2.227		6716	99308
2.583		470	2746
2.743		515	936
2.892		436	1157
3.4		624	3786
3.563		1340	5156
3.696	TCX	75956	150606
3.996		821	1849
4.222		453	1037
4.45		323	908
4.6		623	1096
4.654		600	1122
4.836		558	1845
4.973		1580	5661
5.265		1152	3216
5.337		1397	5497
5.697		1934	12592
5.959		8389	20440
6.046		1269	2934
6.234		682	2385
6.396		1924	6000
6.731		1993	7877
6.96		377	855
7.064		1965	7616
7.418		1900	8463
7.636		577	1513
7.82		1598	5941
8.297		1254	3300
8.708	DCB	74032	202096
8.885		1245	4450
9.628		1092	5056
10.592		1287	16526

ASX73 1403

IBLKX1224C NWPIBLKNW PIBLK1220099999 SW-846 8082

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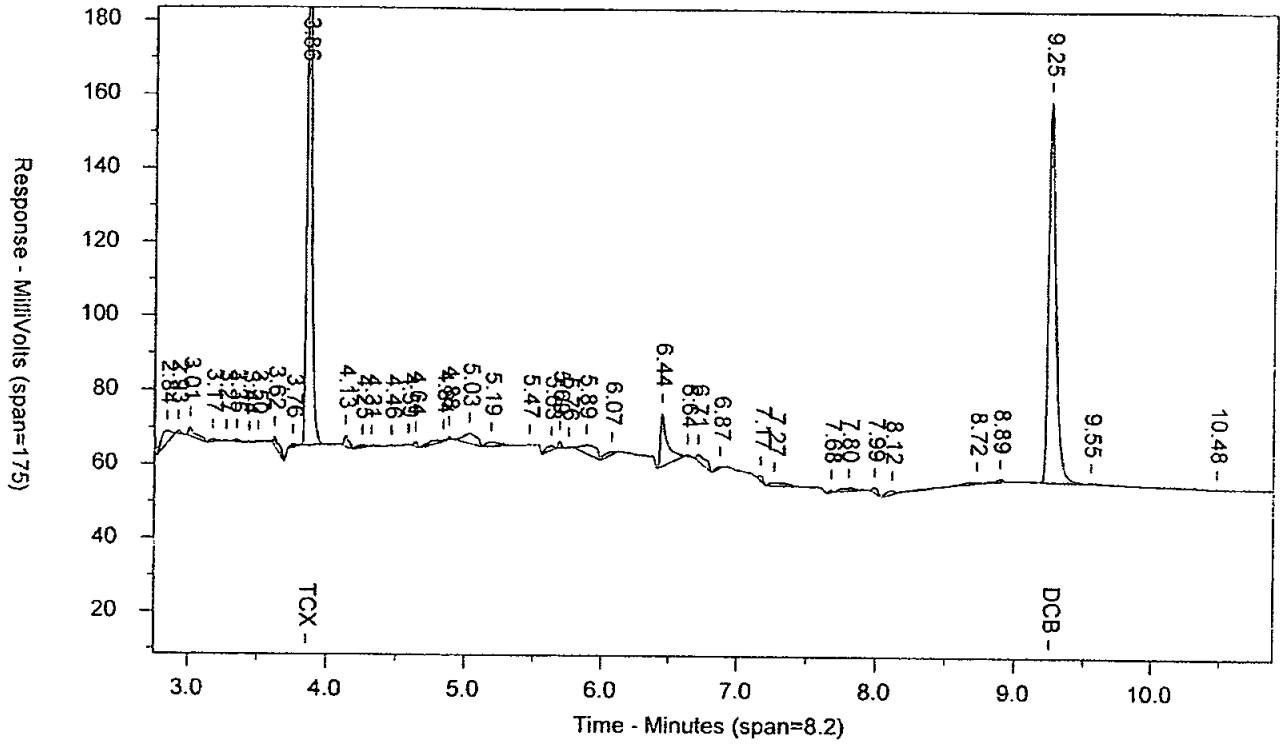

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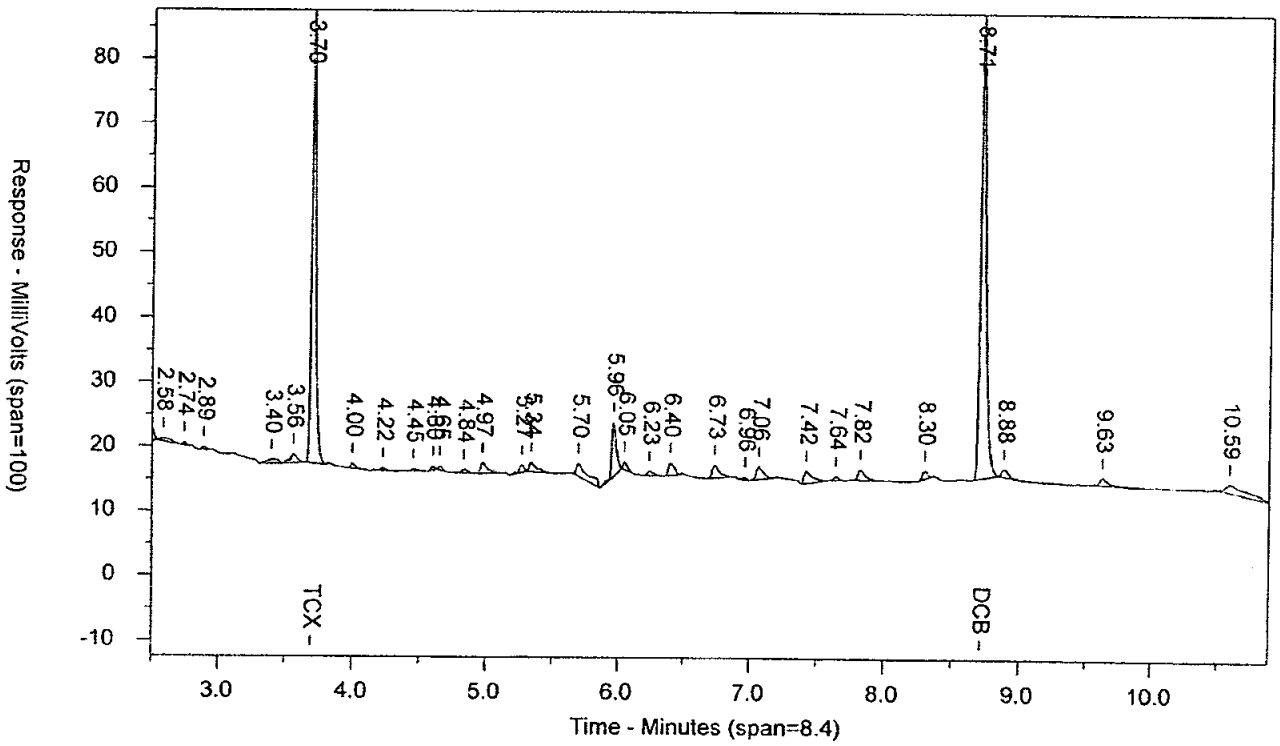

ASX73 1404

LANCASTER LABORATORIES

Sample Number: IBLKX1224C NWPIBLKNW PIBLK1220099999
Injected On: 7/20/2012 2:30:44 AM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1000-846 8082
Dilution Factor: 10

Threshold: 3
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
3.856	188498	.176	TCX	3.696	75956	.206	TCX
9.253	102894	.166	DCB	8.708	74032	.195	DCB

Files:
Area File: 9p7190.017.RAW
Area File: 9p7190B.017.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 2:41:20 AM
File Reported On: 7/20/2012 at 2:41:44 AM

IBLKX1224C NWPIBLKNW PIBLK1220099999 SW-846 8082

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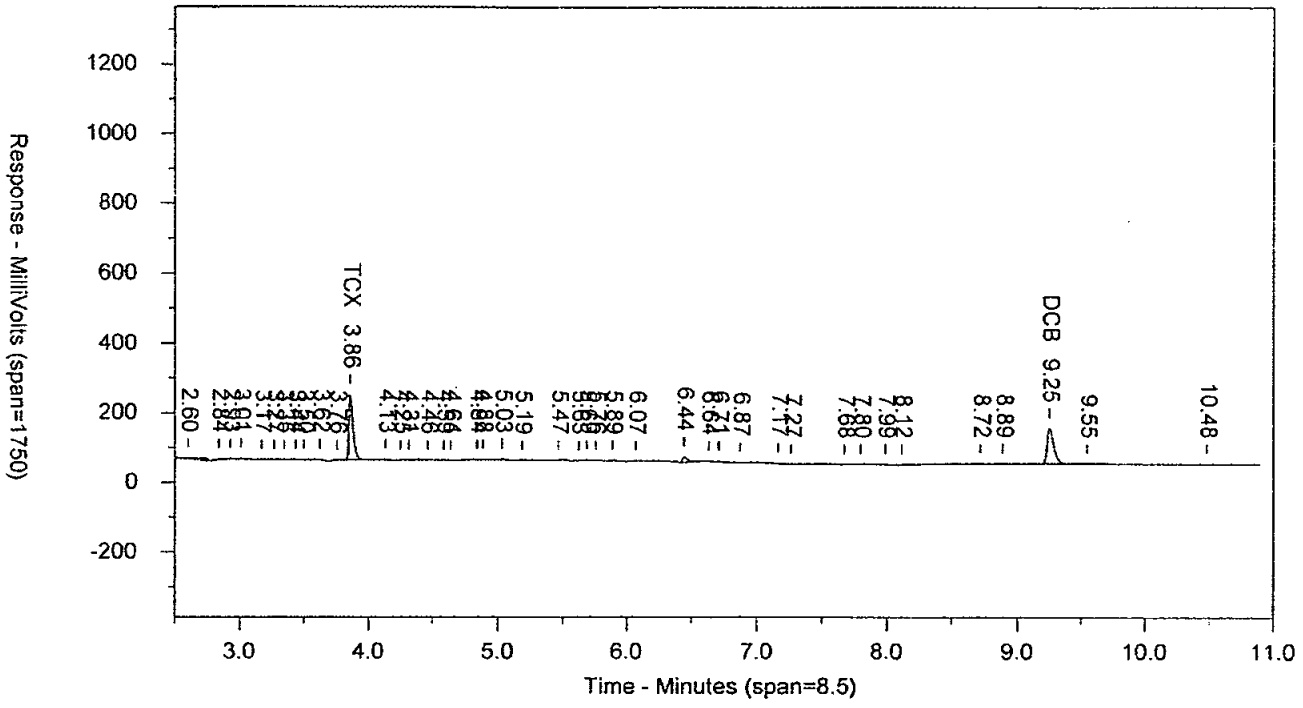

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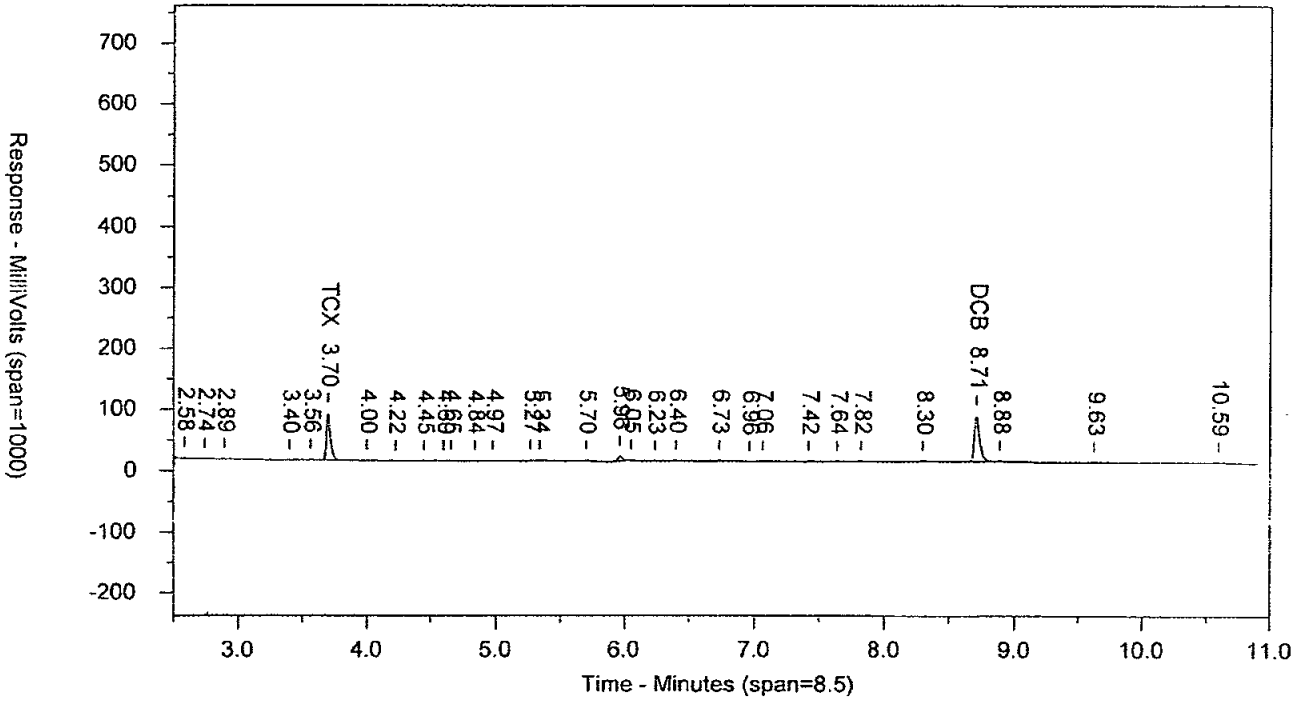

ASX73 1486

LANCASTER LABORATORIES

Sample Number: AR1631224B VZAR163VZ CCAL 1220099999 Injection Volume: SW846 8082
Injected On: 7/20/2012 3:44:12 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.022.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.761		653	1780
2.126		683	7452
2.745		3288	6497
2.849		2184	12132
2.924		2007	3503
3.008		1680	2697
3.06		499	649
3.27		193	325
3.356		1005	4393
3.62		2318	9903
3.667		2136	3178
3.749		549	1410
3.853	TCX	358807	783193
4.056		6403	12940
4.133		11573	20358
4.202		36857	80021
4.333		4640	10045
4.502		14690	17628
4.52		9232	11893
4.621		1464	1452
4.665		41869	87780
4.837		11089	29141
4.919		84083	185703
4.973		31336	51695
5.057		35636	66962
5.148		17016	21880
5.188		19832	58501
5.319		31565	82463
5.39		4768	4753
5.44		26866	47500
5.49		4479	6116
5.603		949	1149
5.649		33309	127869
5.792		2619	3678
5.847		30344	78634
6.022		1005	1726
6.106		11189	23760
6.162		11555	17773
6.222		26661	77078
6.311		57677	139639
6.44		6935	15886
6.484		7492	11761
6.548		67927	221476
6.654		24004	50170
6.747		2816	3020
6.79		71670	155159
6.863		28475	44142
6.913		15402	25154
7.06		45366	112047
7.134		15214	24032
7.181		6534	9369
7.294		12542	23840
7.371		98313	282403

ASX73 1497

RT A	Compound A	Height A	Area A
7.676		48762	99563
7.757		14433	37740
7.985		3657	8852
8.139		11519	37648
8.346		99	378
8.444		23541	63320
8.537		756	1347
8.886		10219	32914
9.247	DCB	190856	736589
10.154		191	568

LANCASTER LABORATORIES

Sample Number: AR1631224B VZAR163VZ CCAL 1220099999
Injected On: 7/20/2012 3:44:12 AM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.022.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

Injection Volume: 1 uSW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.594		120090	1259195
2.596		355	1933
2.741		394	679
2.797		526	1044
2.884		477	1158
3.06		287	1240
3.419		579	3506
3.559		740	2756
3.692	TCX	150503	302135
3.916		2561	5312
3.999		4371	8798
4.076		15653	34290
4.235		1913	4410
4.374		26585	76927
4.543		19748	45831
4.658		6313	18540
4.765		43459	86156
4.819		13369	23161
4.93		13534	18911
4.973		5864	6792
5.008		11059	25065
5.167		15755	33376
5.3		13628	26681
5.36		3241	5000
5.486		19712	50522
5.624		14435	28671
5.826		628	1150
5.904		2379	3691
5.996		24004	94705
6.103		35504	72731
6.223		6453	10966
6.276		42125	86985
6.411		38196	73067
6.477		1461	1590
6.523		6326	8226
6.57		24496	31649
6.601		12255	14517
6.651		8323	12007
6.781		4178	7488
6.838		27827	59882
6.927		11385	16725
6.968		1762	1628
7.065		66047	140894
7.343		13702	24785
7.409		47369	106752
7.632		2213	4347
7.697		568	764
7.821		7494	17959
7.993		17831	48246
8.366		6866	17157
8.702	DCB	137140	390281

ASX73 1489

AR1631224B VZAR163VZ CCAL 1220099999 SW-846 8082

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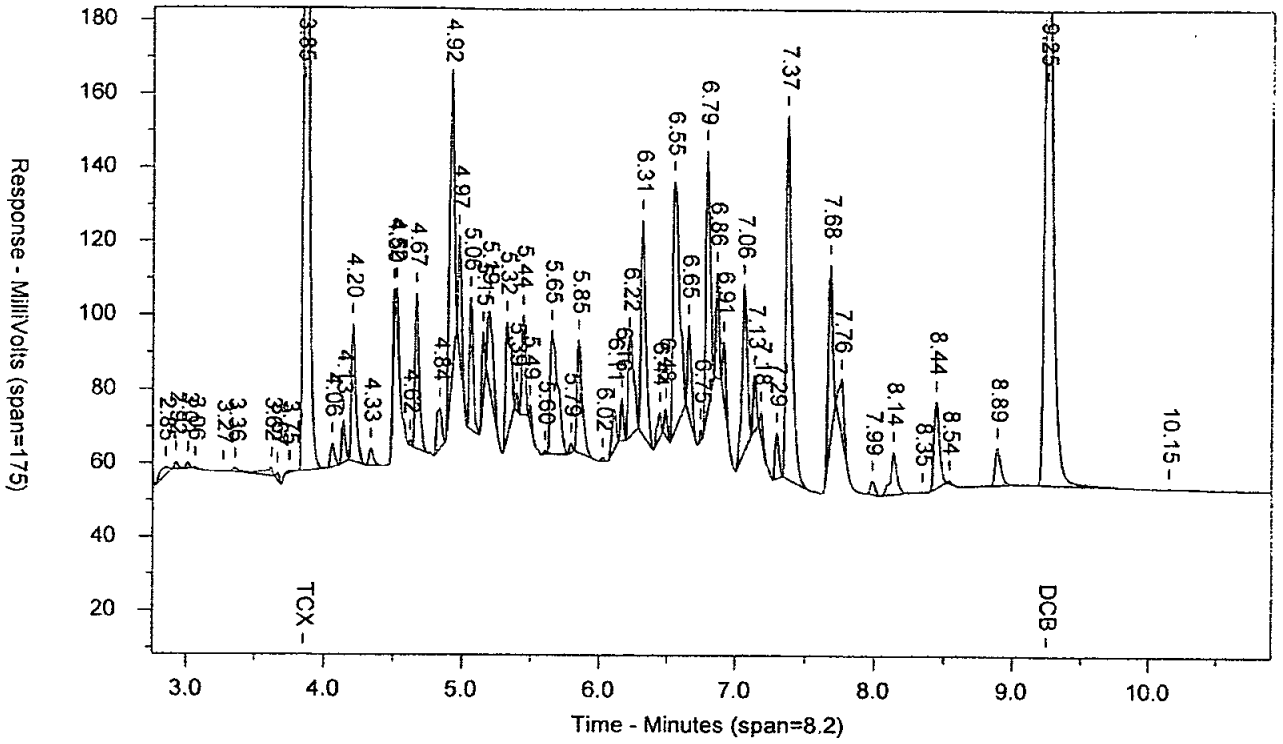

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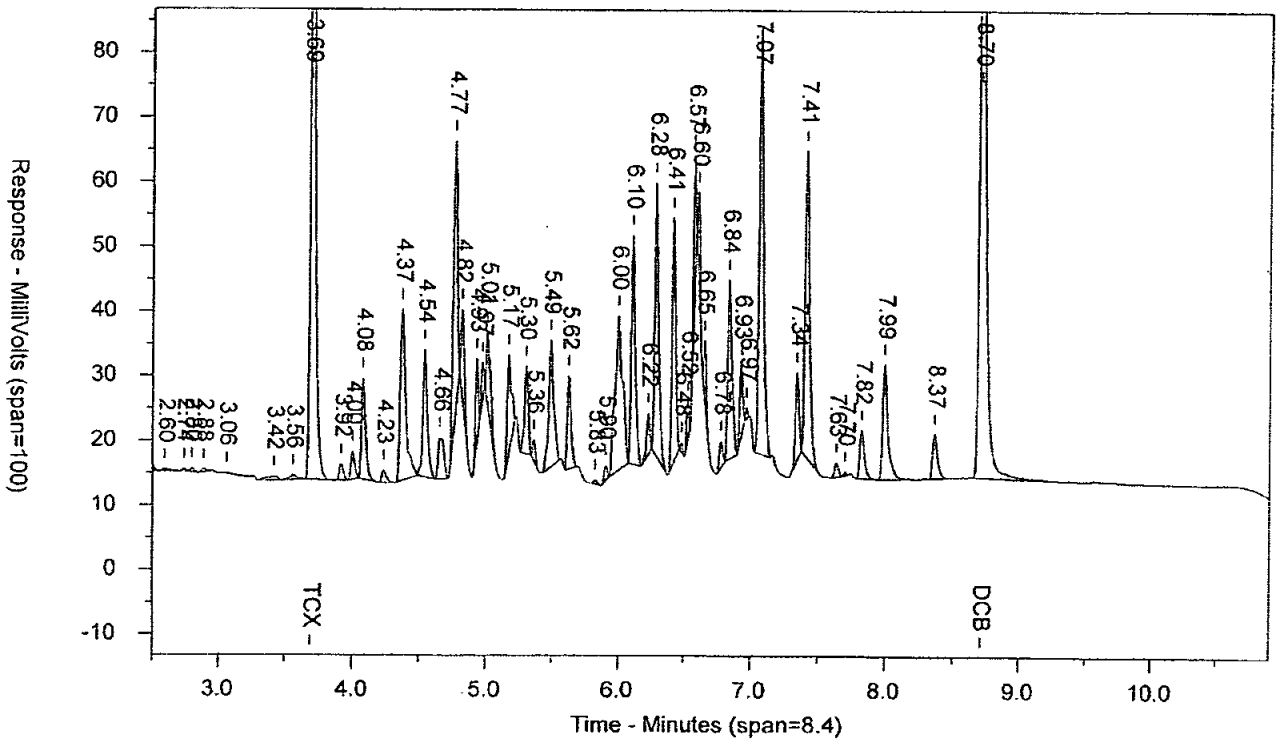

LANCASTER LABORATORIES

Sample Number: AR1631224B VZAR163VZ CCAL 1220099999
Injected On: 7/20/2012 3:44:12 AM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.853	358807	33.583	TCX	3.692	150503	40.861	TCX
9.247	190856	35.026	DCB	8.702	137140	36.172	DCB

Files:
Area File: 9p7190.022.RAW
Area File: 9p7190B.022.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 3:54:48 AM
File Reported On: 7/20/2012 at 3:55:16 AM

ASX73 1411

AR1631224B VZAR163VZ CCAL 1220099999 SW-846 8082

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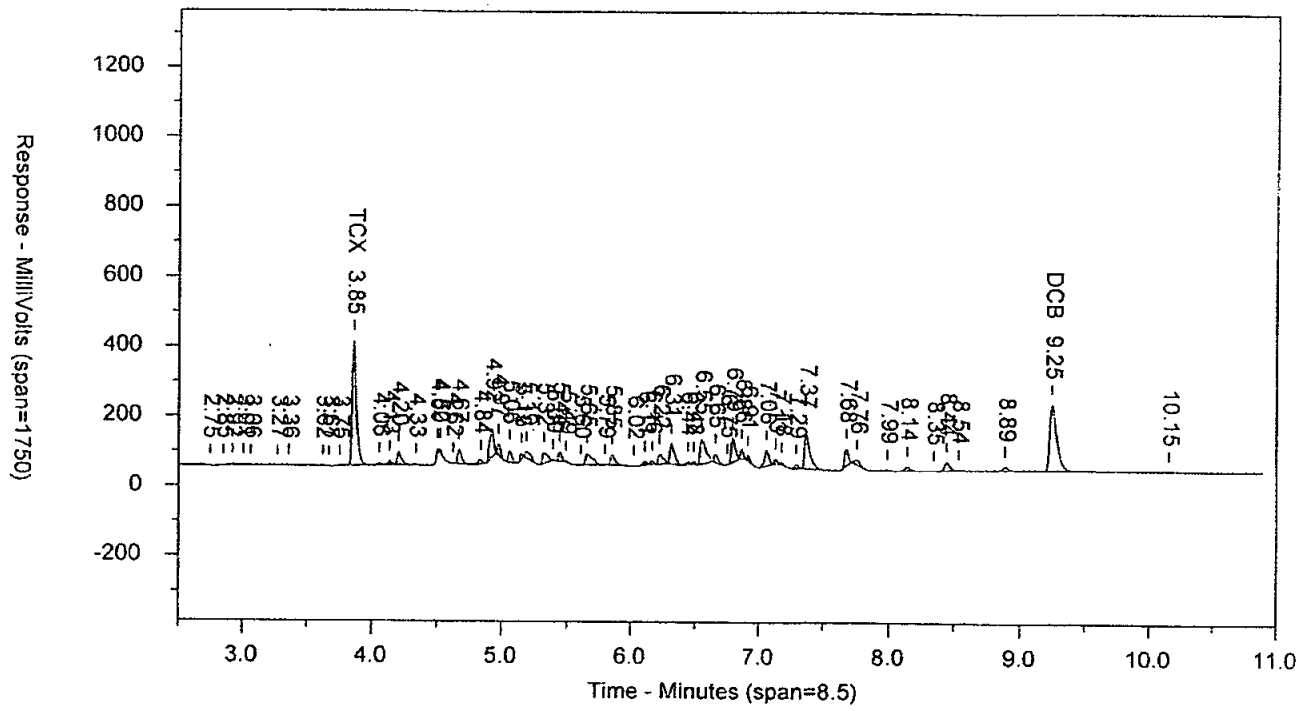

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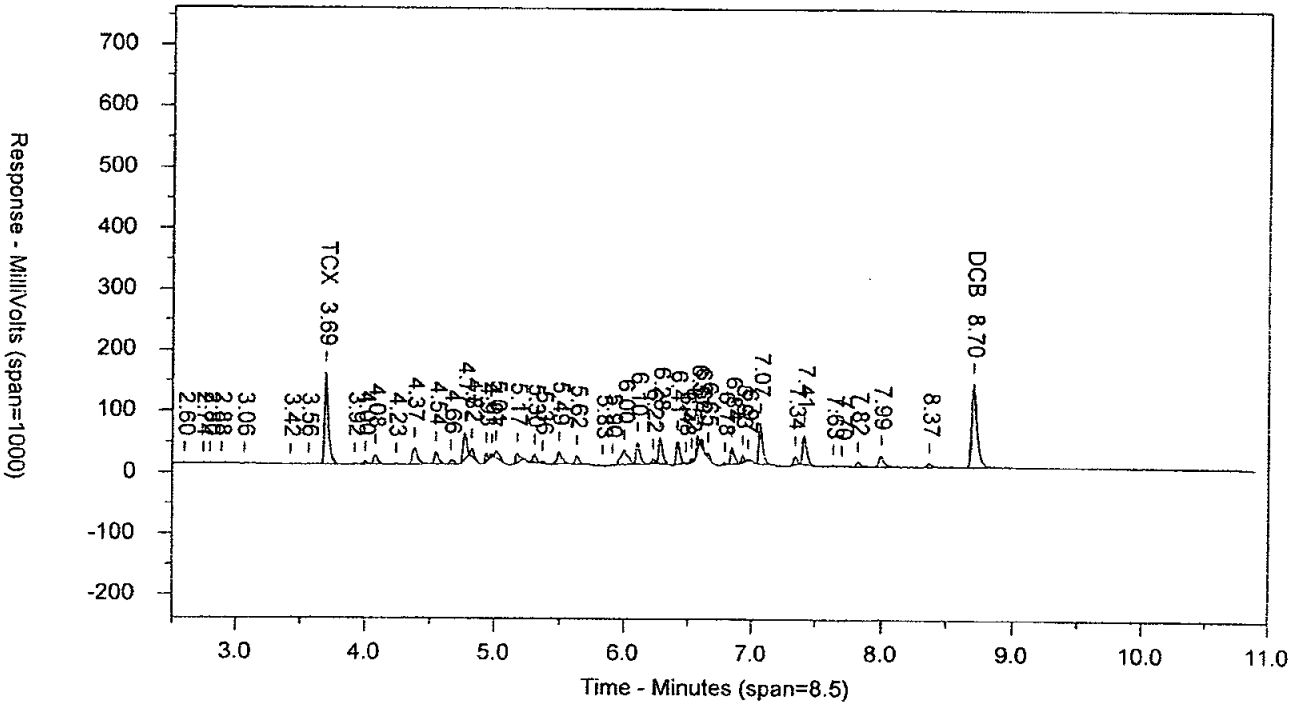

ASX73 1412

LANCASTER LABORATORIES

Sample Number: IBLKX1224C NXPIBLKNX PIBLK1220099999 Injection Volume: SW846 8082
Injected On: 7/20/2012 3:58:54 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.023.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.519		903	2353
1.713		459	795
1.781		2220	10881
1.934		414	1572
2.025		1256	2070
2.16		2079	19815
2.302		1020	5136
2.674		602	5367
2.751		1180	1944
2.848		1315	6529
2.926		917	1444
3.01		2636	5718
3.184		519	2261
3.272		298	554
3.347		752	1941
3.628		5429	27469
3.755		425	1316
3.855	TCX	191606	394828
4.131		3391	9596
4.265		425	2780
4.46		146	361
4.585		303	917
4.641		1172	2279
4.881		1297	8862
5.03		2448	17764
5.195		1056	8059
5.459		317	690
5.631		963	5328
5.687		1991	3243
5.884		2137	19692
6.085		673	6152
6.444		14477	52347
6.635		398	771
6.711		1735	10886
6.87		452	1836
6.918		392	1616
7.16		1103	3486
7.271		869	8767
7.673		826	1289
7.805		641	5708
7.987		1615	4908
8.116		1095	5366
8.206		288	909
8.72		462	7261
8.888		839	4128
9.252	DCB	103393	380857
9.555		280	3707
10.505		107	492

ASX73 1413

LANCASTER LABORATORIES

Sample Number: IBLKX1224C NXPIBLKNX PIBLK1220099999 Injection Volume: 1 uSW-846 8082
Injected On: 7/20/2012 3:58:54 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.023.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.601		21930	258294
2.743		590	1067
2.893		459	1231
3.41		562	3078
3.563		1789	5742
3.695	TCX	75848	149862
3.995		833	2018
4.219		438	978
4.449		220	922
4.599		590	1053
4.653		780	1489
4.835		402	1386
4.971		1525	5406
5.264		1177	3640
5.336		1363	5136
5.695		1861	10555
5.958		8138	18813
6.045		1260	2904
6.235		643	2519
6.395		1865	5692
6.731		2059	9992
6.96		374	849
7.062		1961	7677
7.416		1857	7378
7.636		616	1629
7.818		1661	6806
8.295		1238	3312
8.707	DCB	73956	202537
8.882		1197	4176
9.627		1081	5358
10.591		1308	17203

ASX73 1414

IBLKX1224C NXPIBLKNX PIBLK1220099999 SW-846 8082

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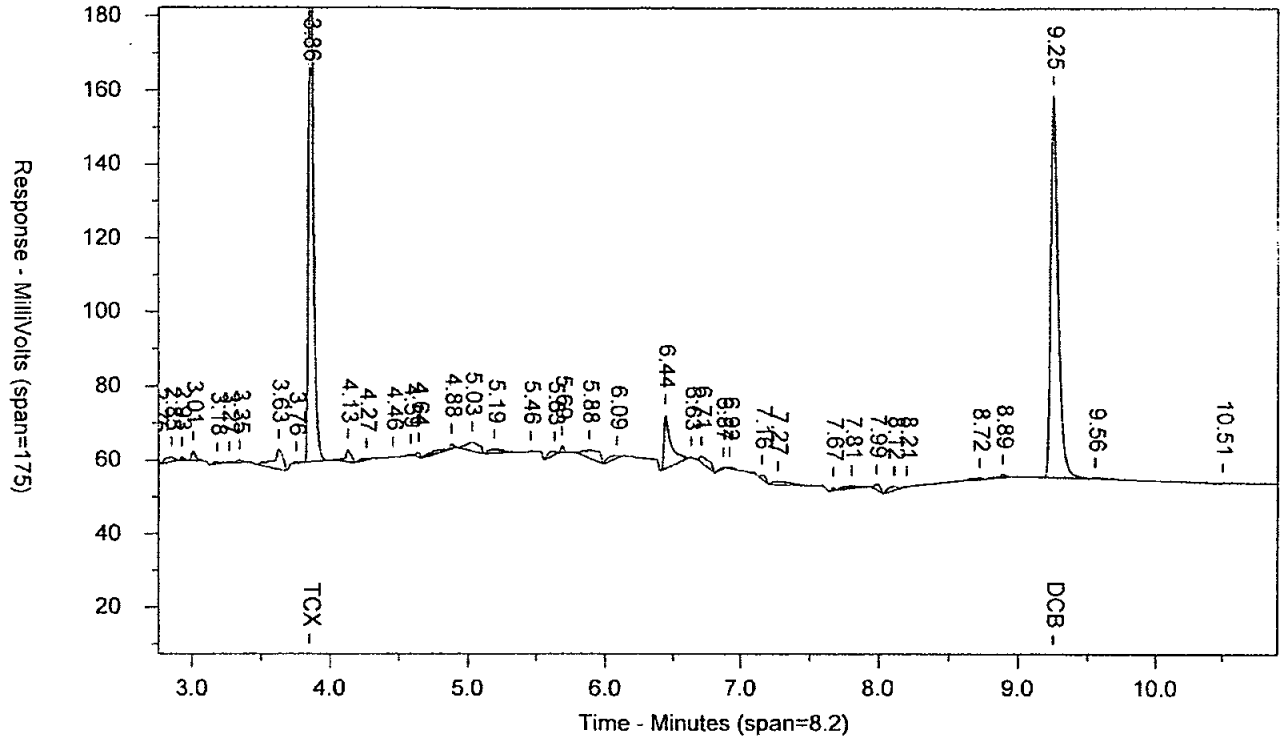

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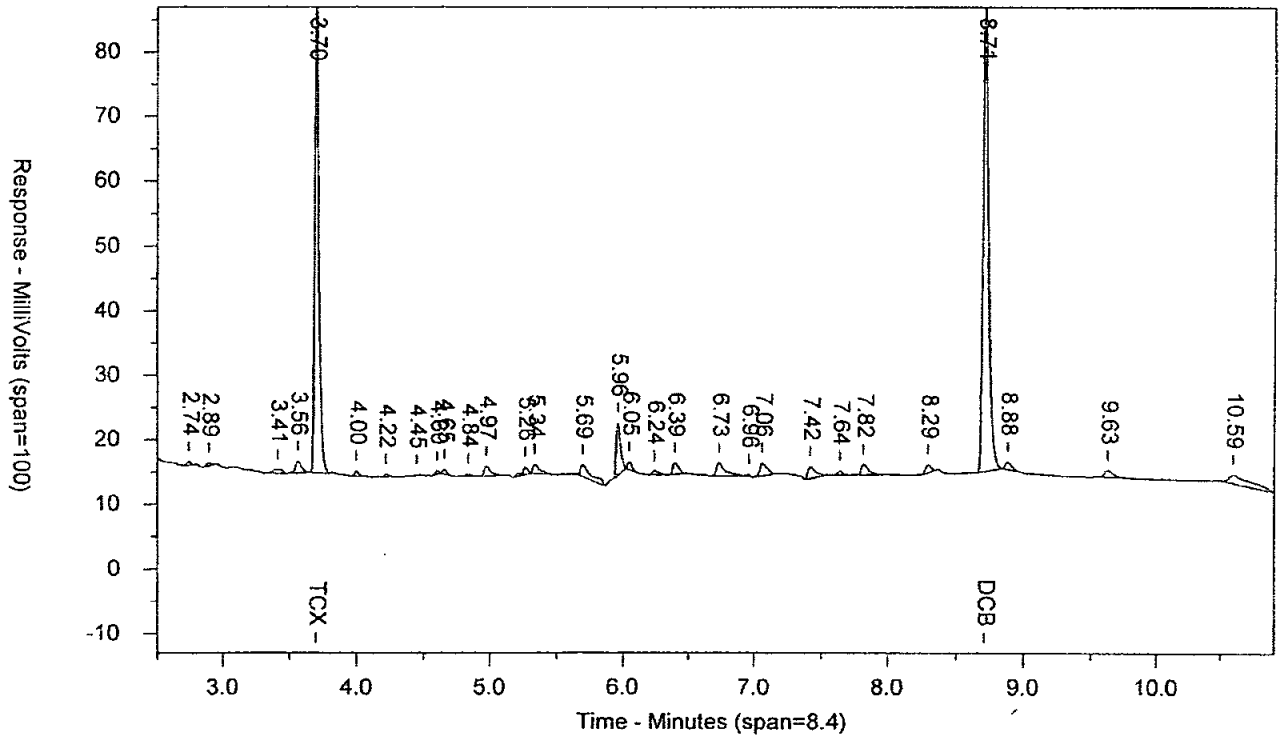

LANCASTER LABORATORIES

Sample Number: IBLKX1224C NXPIBLKNX PIBLK1220099999
Injected On: 7/20/2012 3:58:54 AM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 8082
Dilution Factor: 10

Threshold: 3
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
3.855	191606	.179	TCX	3.695	75848	.206	TCX
9.252	103393	.167	DCB	8.707	73956	.195	DCB

Files:
Area File: 9p7190.023.RAW
Area File: 9p7190B.023.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 4:09:30 AM
File Reported On: 7/20/2012 at 4:09:58 AM

ASX73 1416

IBLKX1224C NXPIBLKNX PIBLK1220099999 SW-846 8082

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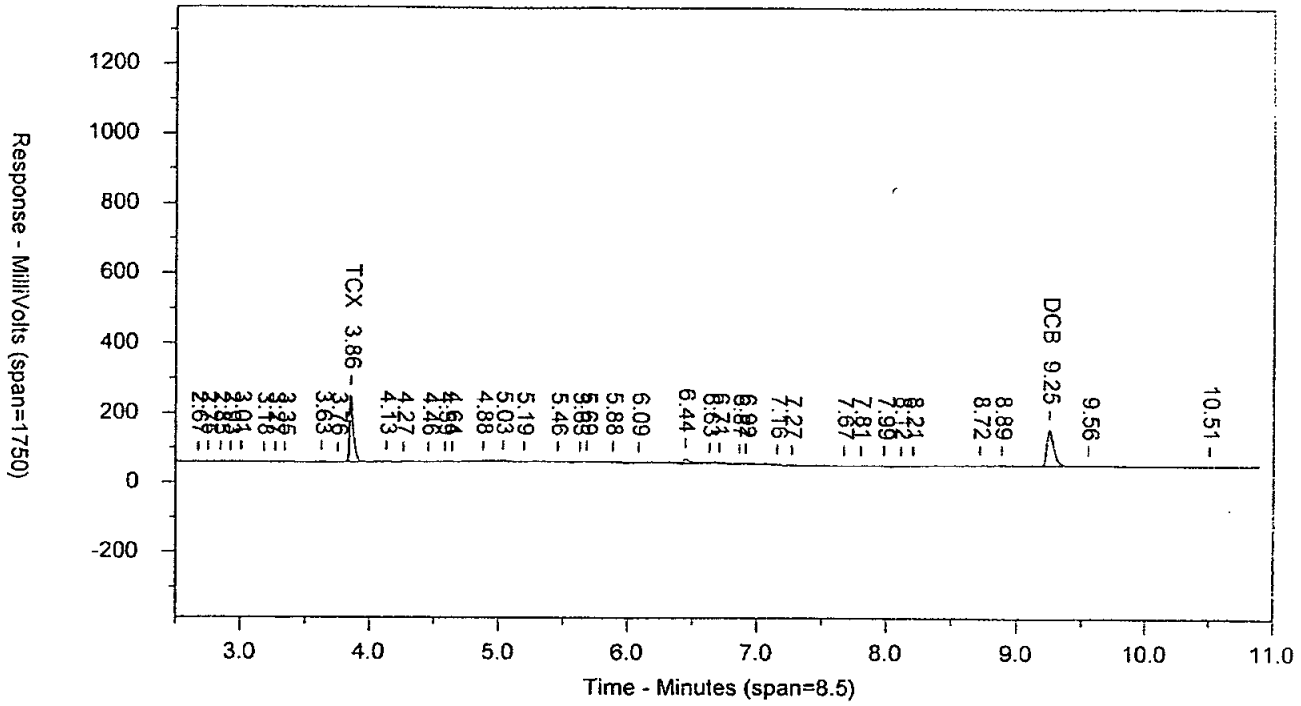

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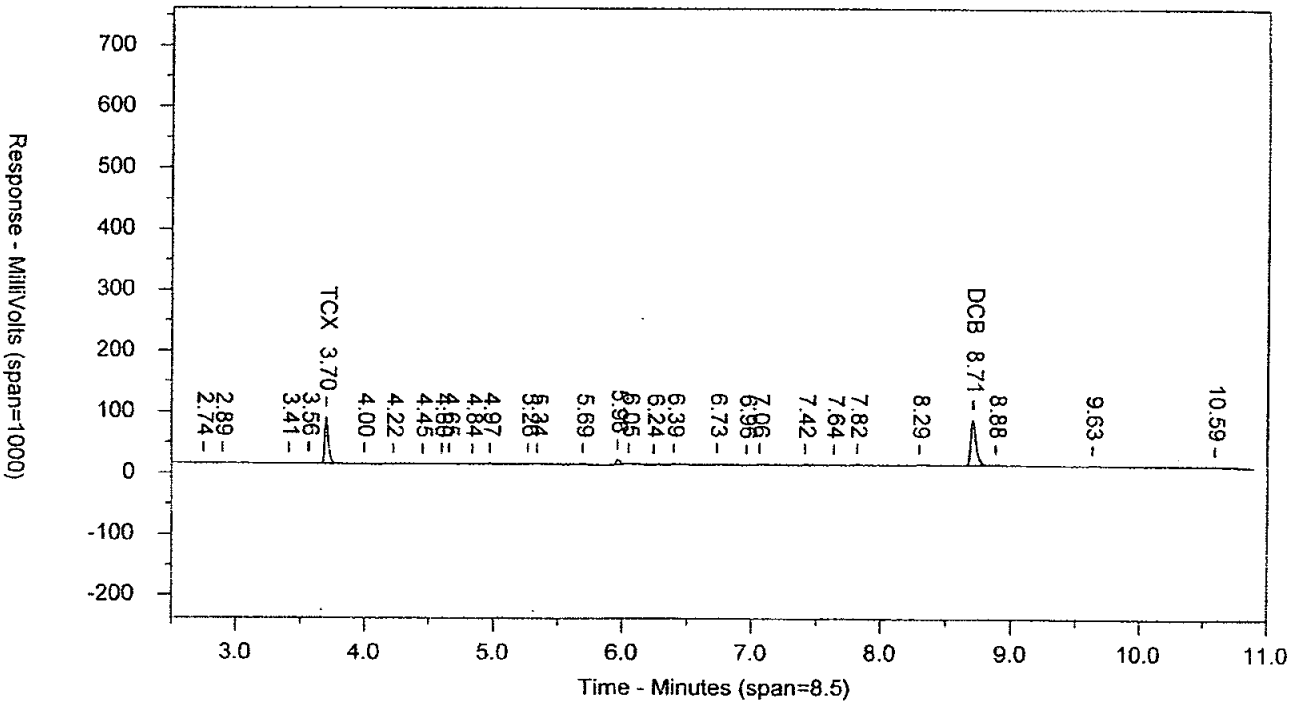


ASX73 1417

LANCASTER LABORATORIES

Sample Number: AR1631224B WAAR163WA CCAL 1220099999 Injection Volume: 1SW-846 8082
Injected On: 7/20/2012 6:40:30 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.034.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.771		732	2052
2.138		6938	137894
2.831		1396	6251
2.925		1920	3481
3.008		2327	3622
3.272		296	597
3.356		949	2557
3.499		312	644
3.554		175	246
3.631		4320	14513
3.749		455	1152
3.854	TCX	353454	761685
4.056		5996	11990
4.133		10921	19236
4.202		35323	76796
4.334		4324	9350
4.502		14272	16066
4.521		8856	11884
4.623		1413	1403
4.666		40120	84017
4.838		10708	28368
4.92		81642	177590
4.974		29826	48912
5.057		34590	65045
5.149		17033	21552
5.189		18989	56439
5.32		30702	79392
5.39		4677	4633
5.441		26009	45963
5.49		4071	5452
5.605		735	886
5.65		32560	123738
5.792		2463	3524
5.848		29374	76935
6.023		968	1716
6.107		10834	22835
6.162		11276	17354
6.223		26115	75124
6.311		56309	134848
6.44		8193	17226
6.484		6924	10767
6.549		66853	215731
6.654		23347	48634
6.747		2742	2963
6.79		70497	155064
6.864		28503	43422
6.913		14850	23758
7.062		44512	110005
7.135		14727	23212
7.182		6454	9543
7.295		11639	21300
7.372		102669	323759
7.677		49443	98911

DASX73 1418

RT A	Compound A	Height A	Area A
7.758		13962	35583
7.987		4304	11635
8.141		11463	39732
8.445		23723	63785
8.539		785	1449
8.644		112	305
8.888		10100	34379
9.25	DCB	189171	733081
10.156		176	683

ASX73 1419

LANCASTER LABORATORIES

Sample Number: AR1631224B WAAR163WA CCAL 1220099999
Injected On: 7/20/2012 6:40:30 AM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.034.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

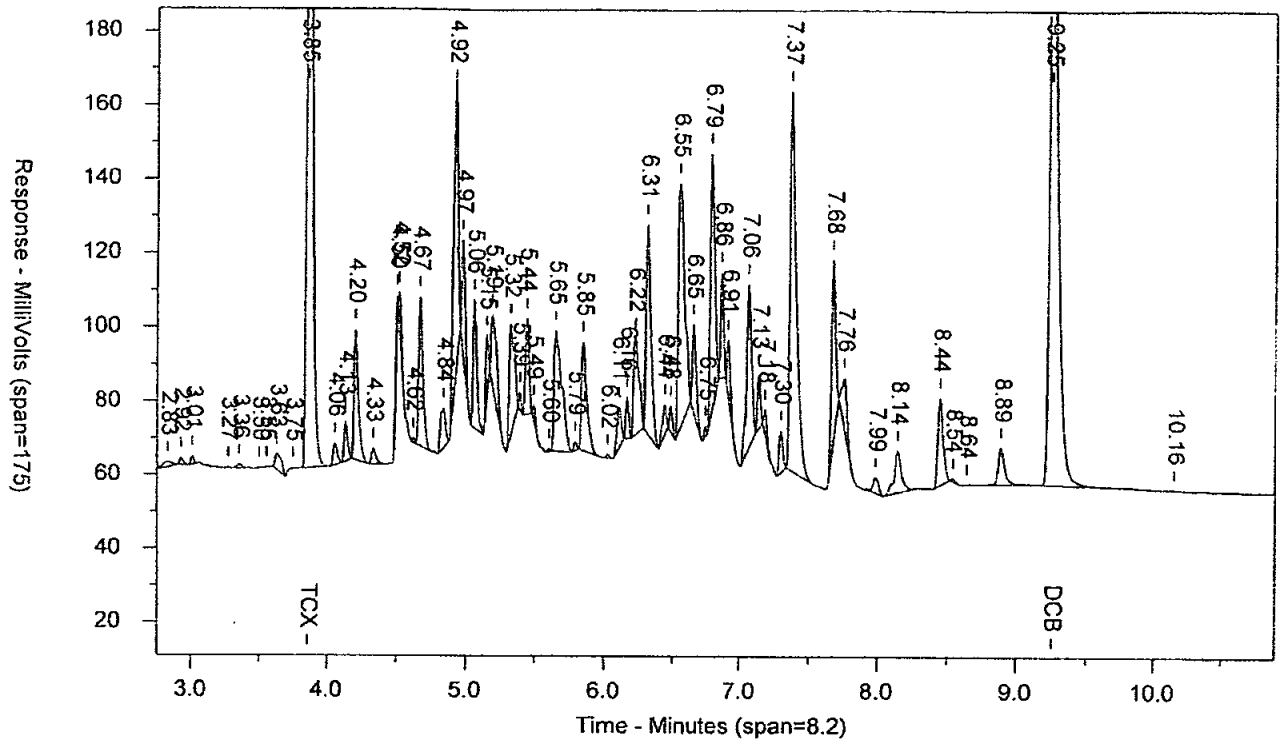
Injection Volume: 1 ul SW-846 8082
Analyst: 2855

RT B	Compound B	Height B	Area A
1.598		102114	1031215
2.228		2326	36901
2.743		621	1092
2.798		485	935
2.892		249	597
3.42		417	1991
3.562		1910	6169
3.694	TCX	150154	300883
3.917		2524	5224
4		4278	8620
4.077		15459	33655
4.236		1945	4432
4.375		26132	76082
4.544		19477	44871
4.659		6206	18211
4.766		43148	85024
4.82		13610	23682
4.931		13823	19149
4.974		5797	6773
5.009		10647	24250
5.168		15602	33093
5.301		13472	26463
5.361		3133	4755
5.488		20238	55646
5.624		13831	30867
5.825		564	988
5.905		2370	3704
5.997		23814	95721
6.104		35084	71982
6.224		6536	11070
6.278		41947	85900
6.412		38245	73022
6.479		1494	1629
6.524		6382	8456
6.572		23737	30345
6.601		11620	14363
6.652		8268	11655
6.781		4083	7375
6.84		27633	59301
6.928		11239	16755
6.969		1763	1588
7.066		66158	142072
7.344		13855	24770
7.41		47135	107298
7.634		2294	4578
7.698		624	836
7.823		7586	18150
7.994		18371	49767
8.368		7003	19886
8.705	DCB	138550	392606

ASX73 1420

AR1631224B WAAR163WA CCAL 1220099999 SW-846 8082

—— \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\9p7190.034.RAW



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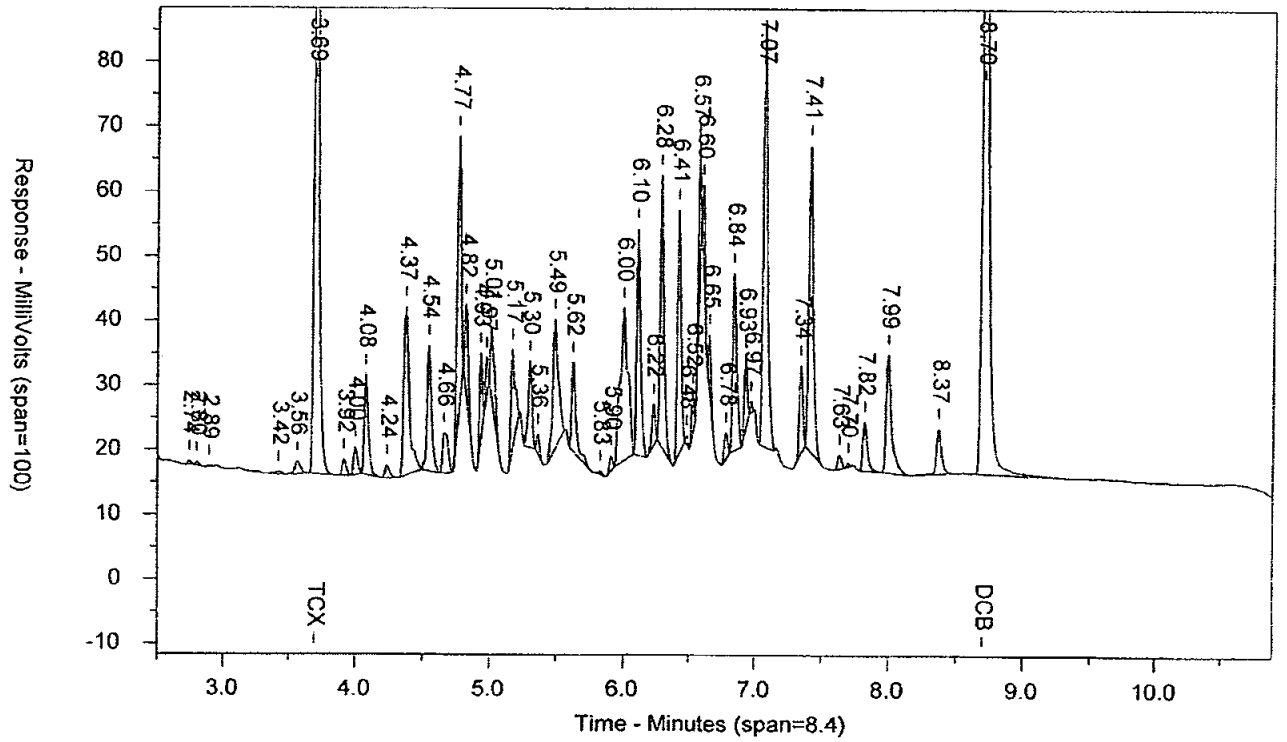

LANCASTER LABORATORIES

Sample Number: AR1631224B WAAR163WA CCAL 1220099999
Injected On: 7/20/2012 6:40:30 AM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1 SW-846 8082
Dilution Factor: 1

Threshold: 3
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
3.854	353454	33.082	TCX	3.694	150154	40.766	TCX
9.25	189171	34.674	DCB	8.705	138550	36.544	DCB

Files:
Area File: 9p7190.034.RAW
Area File: 9p7190B.034.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 6:51:06 AM
File Reported On: 7/20/2012 at 6:51:30 AM

ASX73 1422

AR1631224B WAAR163WA CCAL 1220099999 SW-846 8082

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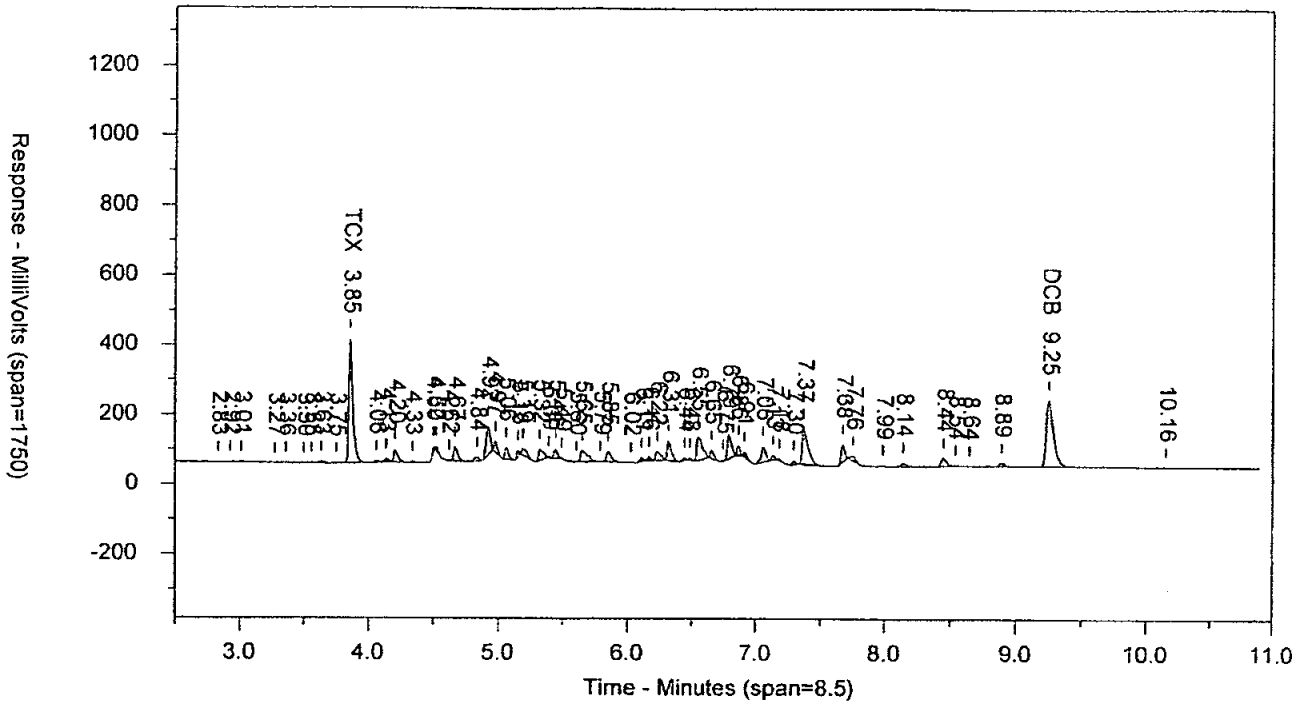

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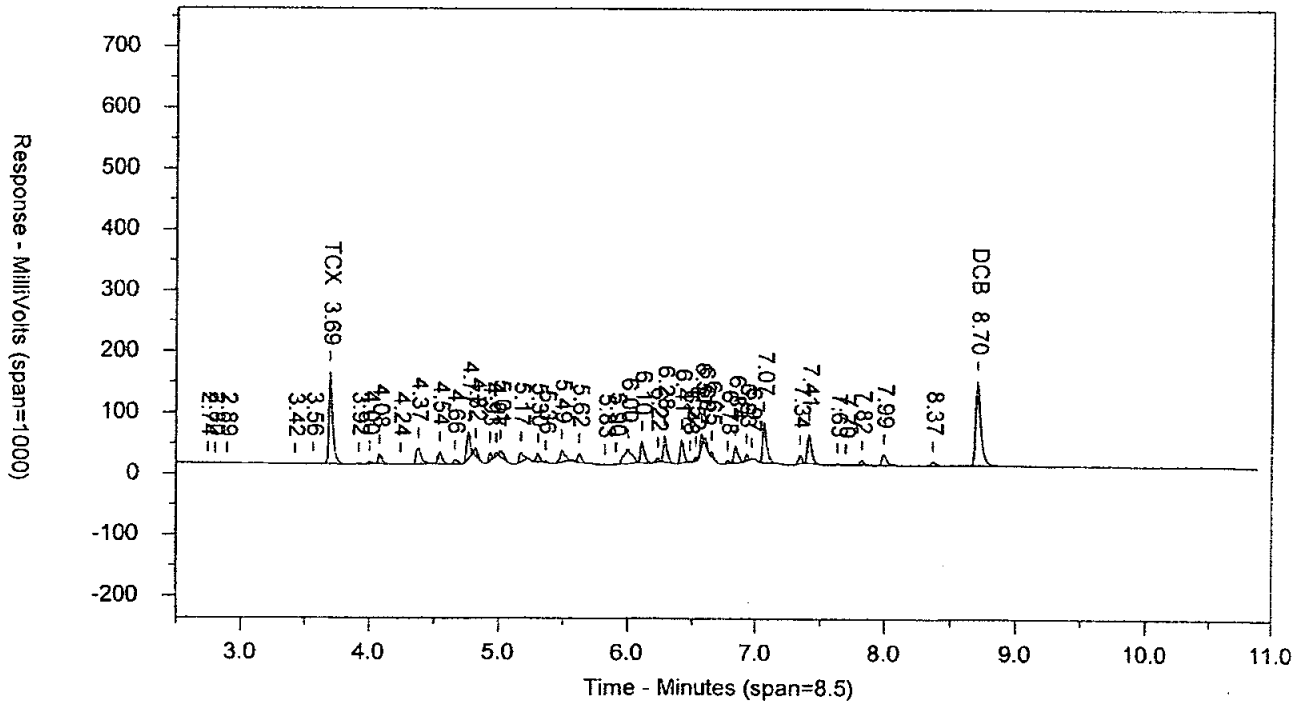

ASX73 1423

LANCASTER LABORATORIES

Sample Number: IBLKX1224C NYPIBLKNY PIBLK1220099999 Injection Volume: SW846 8082
Injected On: 7/20/2012 6:54:59 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.035.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.709		533	1039
1.773		1580	7476
1.925		387	2234
2.021		1167	1779
2.159		2877	32167
2.43		2409	17017
2.675		541	5850
2.745		1238	2471
2.834		1370	6571
2.925		1001	1850
3.008		2105	3352
3.183		403	1692
3.264		203	435
3.345		535	1365
3.626		8387	60263
3.769		1203	5235
3.853	TCX	188482	391766
4.13		3617	11870
4.312		396	4141
4.493		174	825
4.638		1590	6975
4.879		1784	2886
5.029		2906	19463
5.194		1125	8495
5.463		328	678
5.621		1116	5274
5.685		2032	3064
5.843		2017	26204
6.047		1091	6086
6.443		13663	50118
6.633		418	949
6.709		1564	10620
6.917		1645	15740
7.277		966	10820
7.673		837	1328
7.82		463	4352
7.987		1471	4252
8.114		1122	5245
8.338		281	5507
8.715		413	4816
8.888		868	4414
9.25	DCB	103188	381594
9.557		226	1068
10.485		143	682

LANCASTER LABORATORIES

Sample Number: IBLKX1224C NYPIBLKNY PIBLK1220099999 Injection Volume: 1 uSW-846 8082
Injected On: 7/20/2012 6:54:59 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.035.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.601		20680	235138
2.742		573	1042
2.892		243	589
3.403		791	4683
3.561		1323	5293
3.694	TCX	76082	150237
3.994		829	1866
4.22		473	1176
4.452		227	1008
4.598		656	1178
4.653		1079	2142
4.835		597	1784
4.969		1625	5820
5.263		1140	3513
5.335		1630	5409
5.693		2115	12004
5.957		7642	17541
6.044		1347	3255
6.233		630	2373
6.393		1932	5889
6.729		2172	10297
6.96		328	732
7.061		2097	7872
7.415		1948	7174
7.635		595	1706
7.815		1809	7392
8.295		1362	3634
8.705	DCB	74698	203138
8.879		1273	4561
9.625		1171	5784
10.589		1365	17264

ASX73 1425

IBLKX1224C NYPIBLKNY PIBLK1220099999 SW-846 8082

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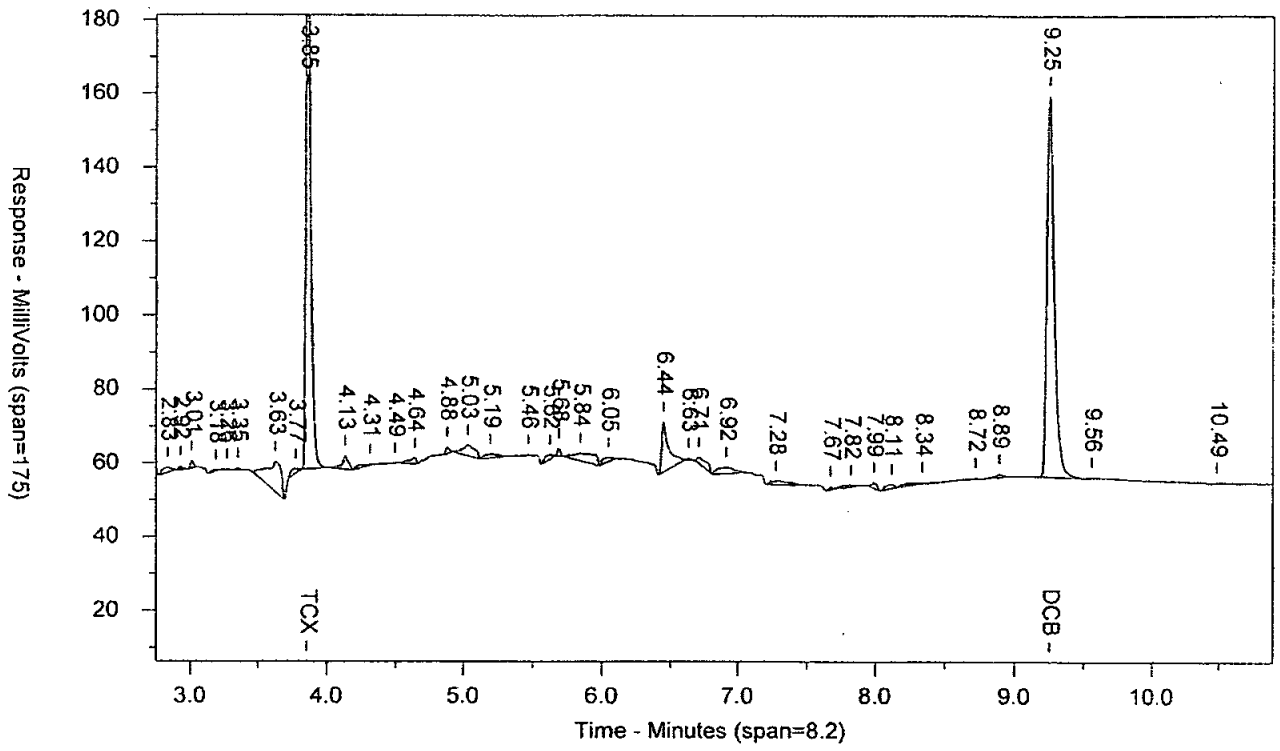

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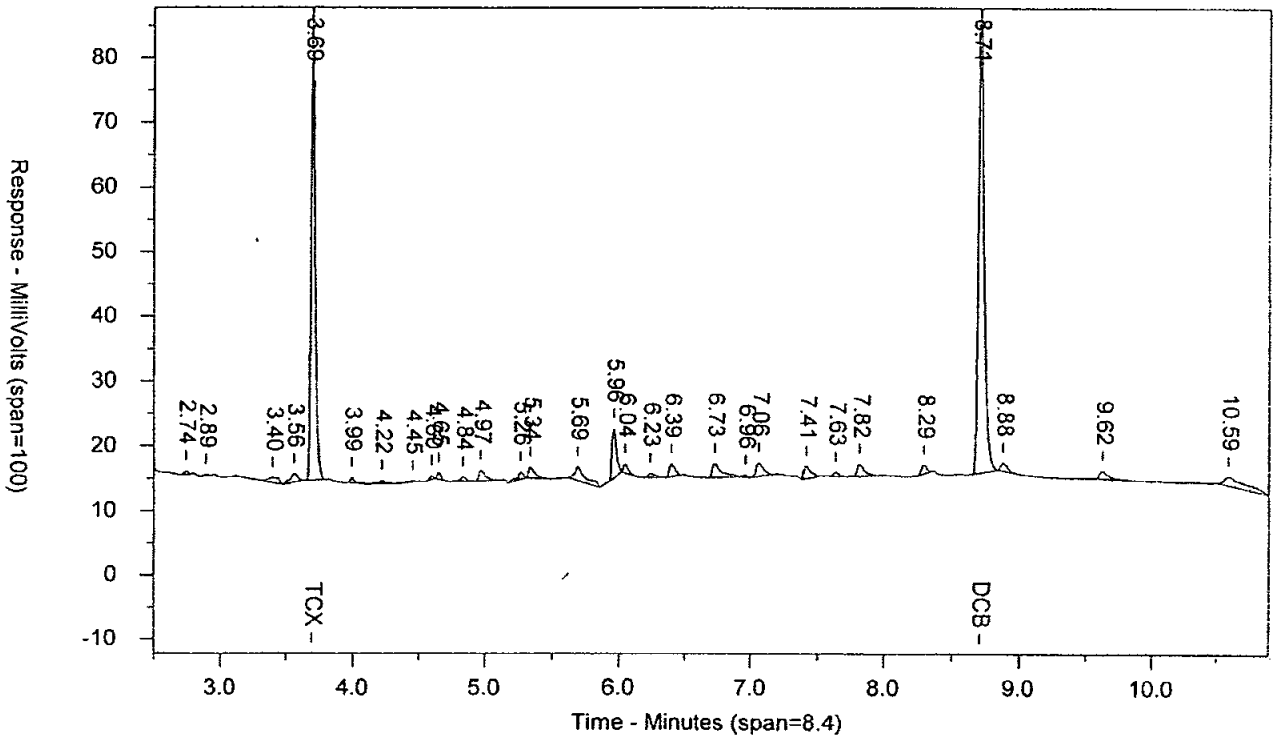

ASX73 1426

LANCASTER LABORATORIES

Sample Number: IBLKX1224C NYPIBLKNY PIBLK1220099999
Injected On: 7/20/2012 6:54:59 AM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 8082.
Dilution Factor: 10

Threshold: 3
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
3.853	188482	.176	TCX	3.694	76082	.207	TCX
9.25	103188	.167	DCB	8.705	74698	.197	DCB

Files:
Area File: 9p7190.035.RAW
Area File: 9p7190B.035.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 7:05:34 AM
File Reported On: 7/20/2012 at 7:05:58 AM

ASX73 1427

IBLKX1224C NYPIBLKNY PIBLK1220099999 SW-846 8082

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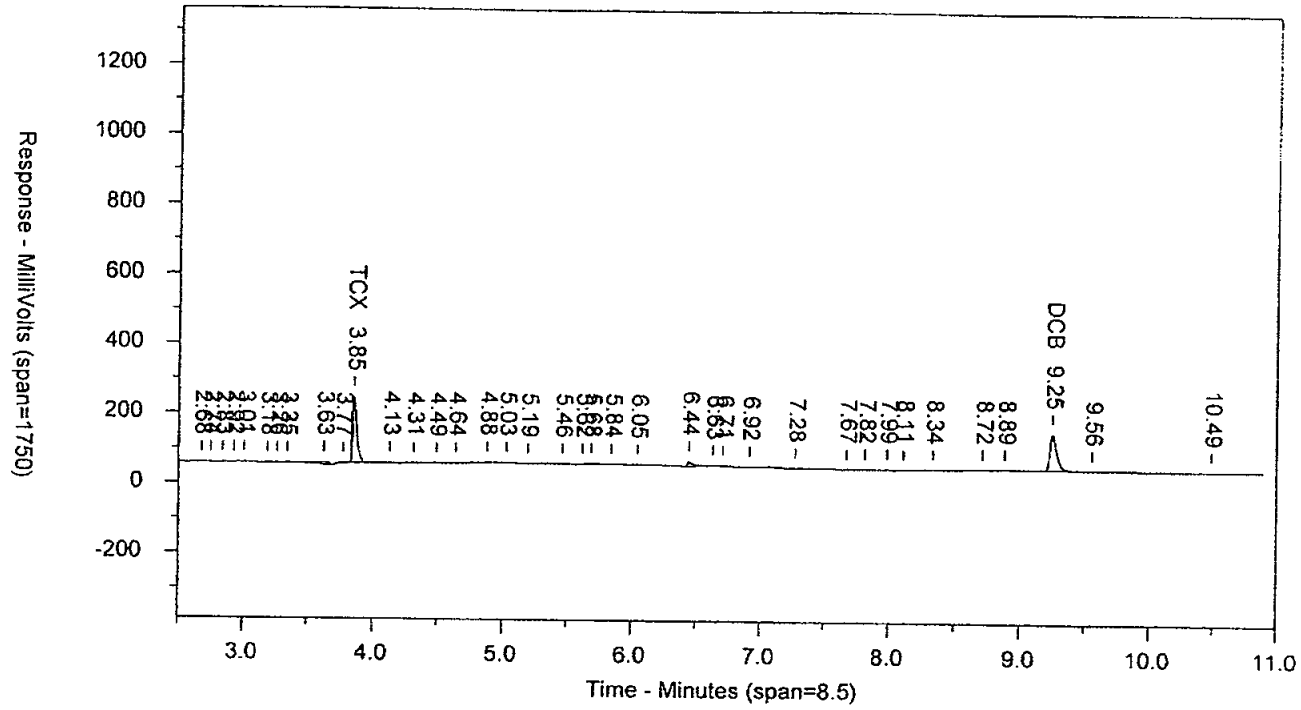

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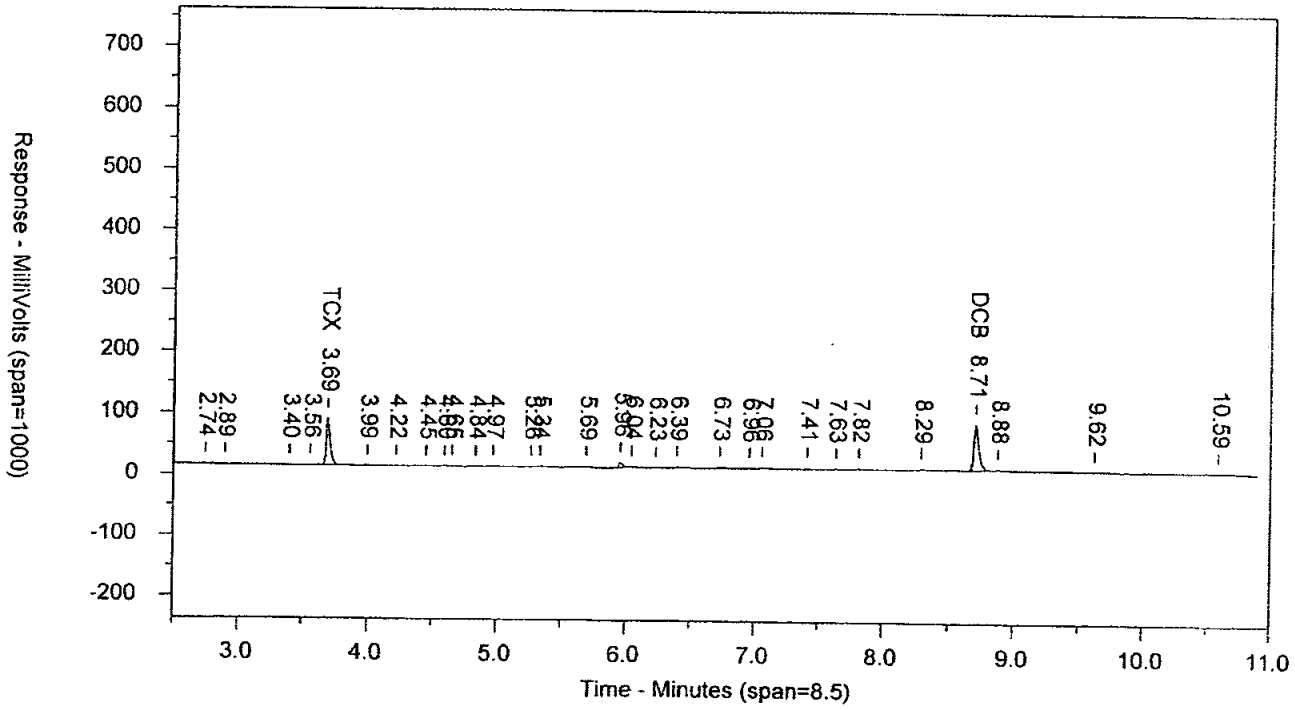

ASX73 1428

LANCASTER LABORATORIES

Sample Number: IBLKX1224C AAPIBLKAA PIBLK1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 1:15:13 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.005.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.709		2735	9917
2.095		2359	24388
2.248		1969	12918
2.368		2003	15066
2.596		844	6286
2.728		265	1125
2.863		903	1468
2.946		2091	9889
3.102		505	1363
3.282		934	4981
3.438		189	451
3.488		244	653
3.57		6494	18815
3.787	TCX	175199	355435
4.063		3090	9567
4.186		503	2447
4.323		180	449
4.392		242	828
4.573		1203	5123
4.766		389	4786
4.808		708	929
4.968		2533	17634
5.116		1076	10536
5.456		1124	2532
5.523		1059	2483
5.62		326	430
5.682		345	876
5.803		1896	18429
6.041		2551	54175
6.365		550	581
6.448		1083	5447
6.557		677	5506
6.754		674	16964
7.566		998	3963
7.882		329	680
8.059		694	1981
8.65		724	5268
8.751		394	964
9.099	DCB	79895	281501
9.361		634	2914
10.249		584	3136
10.718		149	713

ASX73 1429

LANCASTER LABORATORIES

Sample Number: IBLKX1224C AAPIBLKAA PIBLK1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 1:15:13 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.005.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.532		8085	41248
1.846		765	1982
2.678		286	505
2.733		310	610
2.828		170	386
3.002		424	3263
3.345		639	2917
3.499		2720	7825
3.629	TCX	72320	140443
3.928		784	1727
4.156		364	887
4.386		365	1299
4.532		564	1010
4.586		516	953
4.766		526	2223
4.902		1209	4146
5.19		239	1269
5.267		1425	6089
5.623		2451	19207
5.884		601	3411
5.971		1494	2813
6.138		284	1604
6.319		1963	5786
6.654		2138	7373
6.983		1787	6281
7.326		1458	4480
7.543		393	1024
7.716		1256	3601
8.175		980	2587
8.248		257	487
8.577	DCB	64030	172334
8.732		740	2110
9.443		931	4033
10.359		709	3466

ASX73 1430

IBLKX1224C AAPIBLKAA PIBLK1220699999

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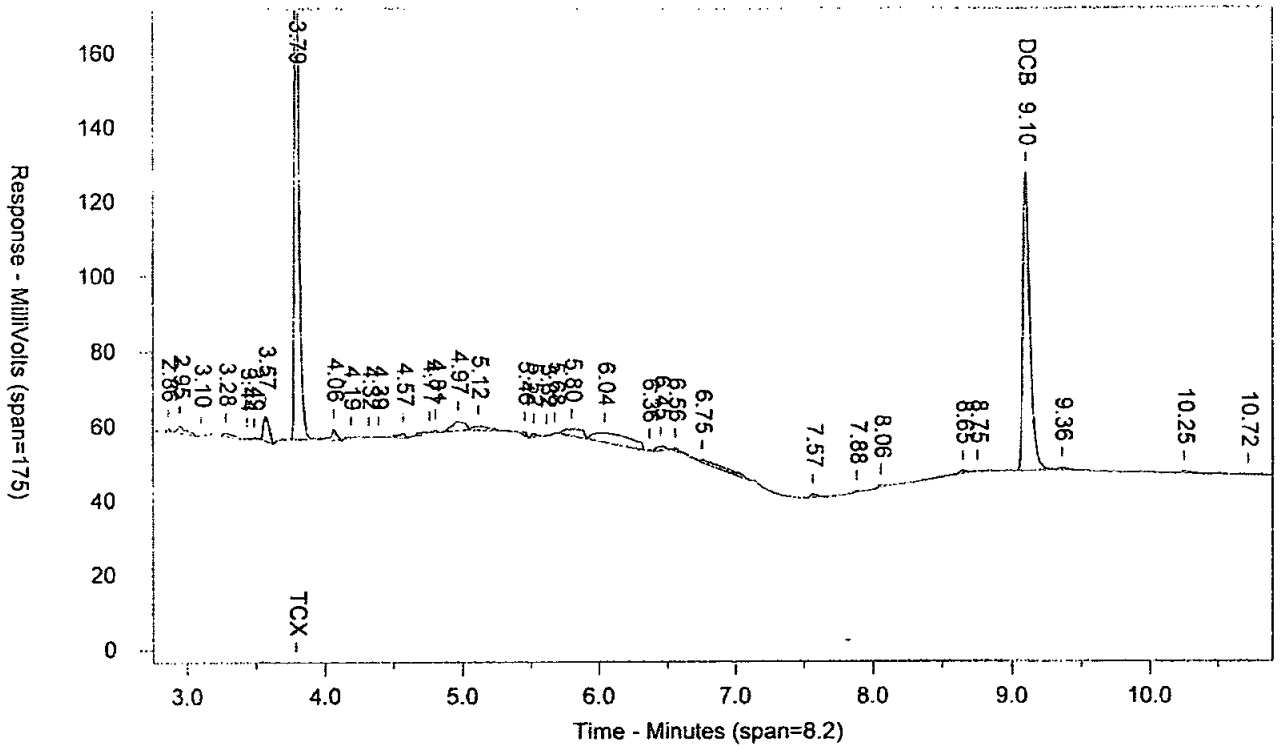

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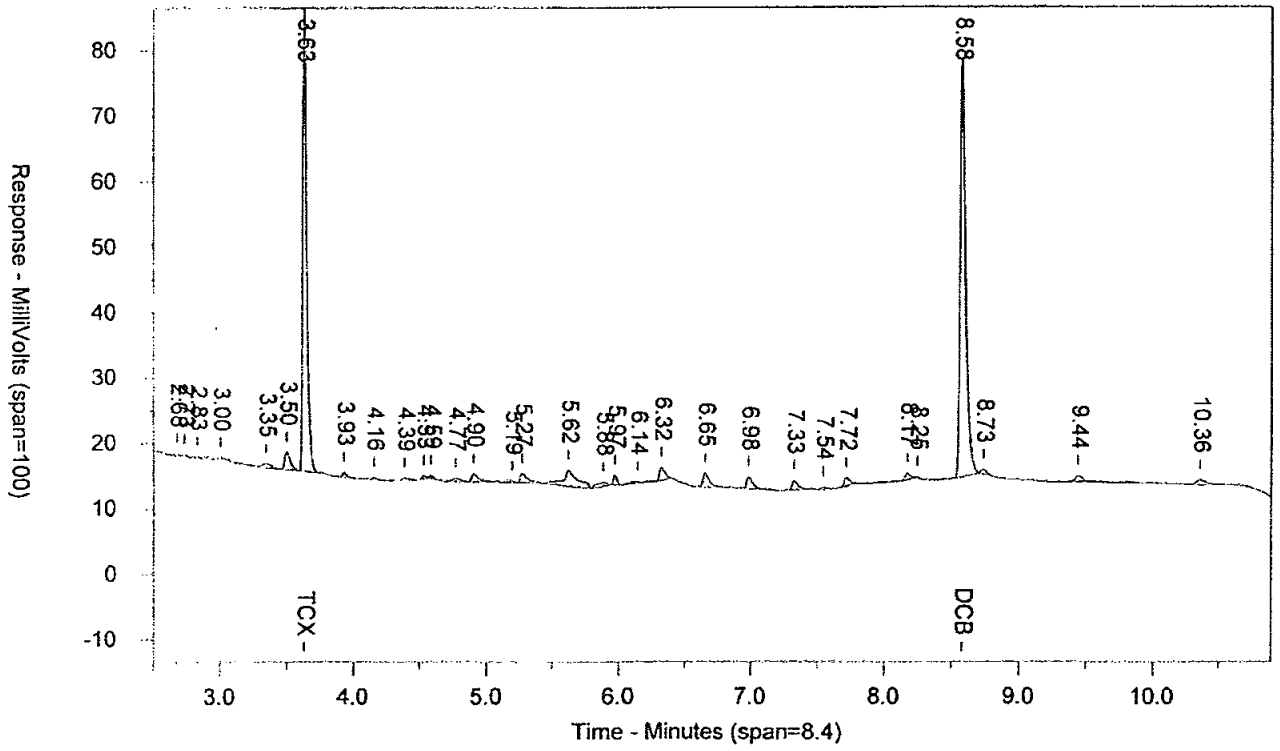

ASX73 1431

LANCASTER LABORATORIES

Sample Number: IBLKX1224C AAPIBLKAA PIBLK1220699999 Sample Weight: 1000
Injected On: 7/25/2012 1:15:13 PM Dilution Factor: 10
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.787	175199	.205	TCX	3.629	72320	.201	TCX
9.099	79895	.199	DCB	8.577	64030	.194	DCB

Files:
Area File: 1p7207.005.RAW
Area File: 1p7207B.005.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 1:25:40 PM
File Reported On: 7/25/2012 at 3:00:08 PM

ASX73 1432

IBLKX1224C AAPIBLKAA PIBLK1220699999

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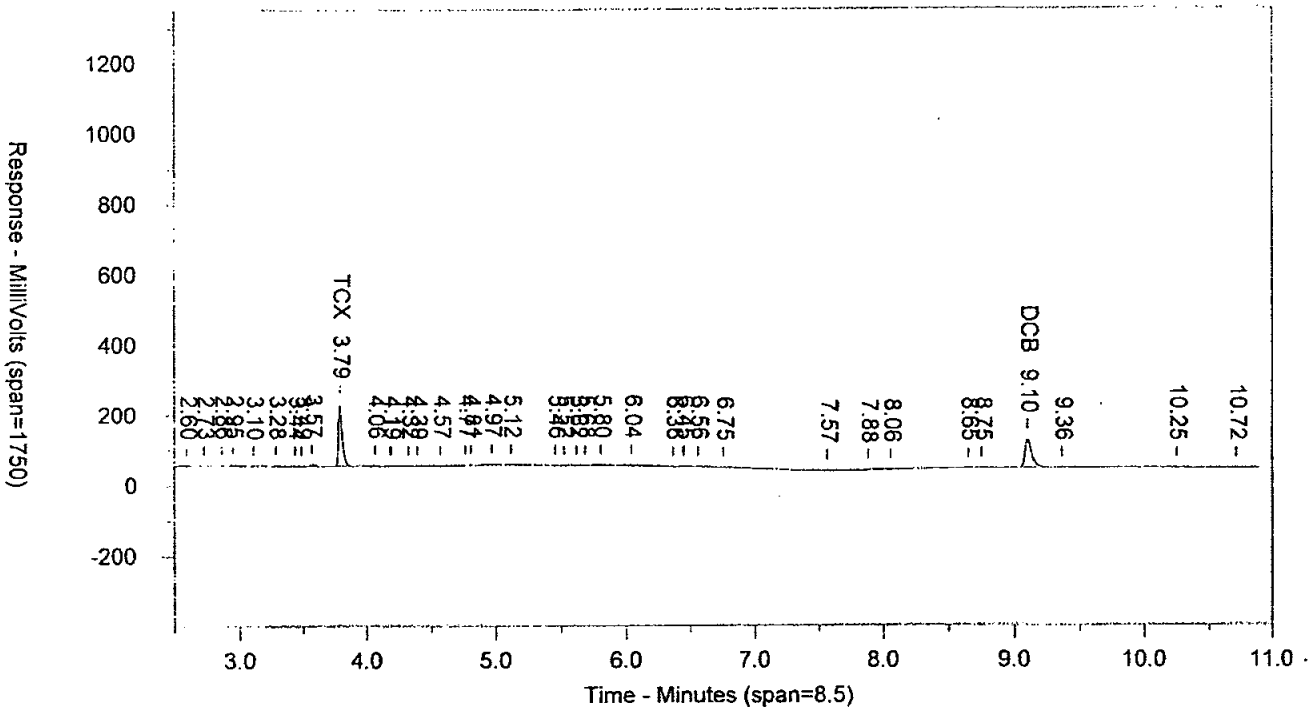

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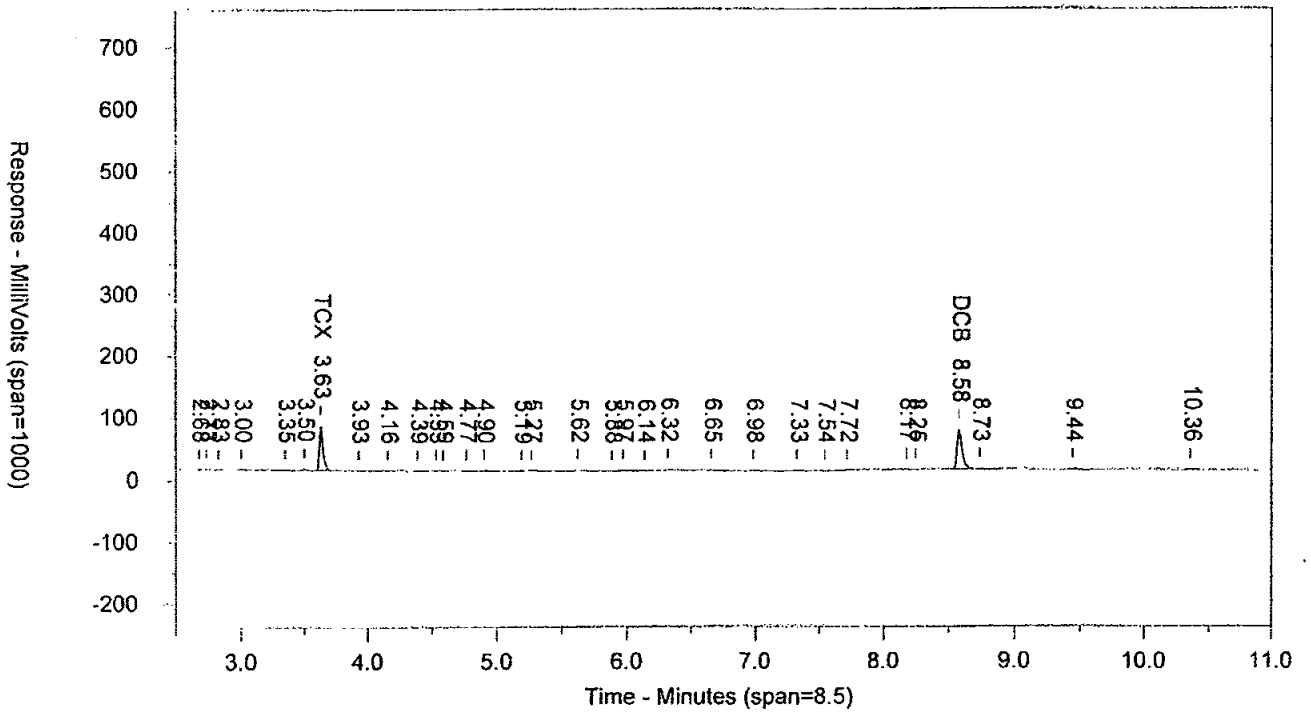


ASX79 1433

LANCASTER LABORATORIES

Sample Number: AR1611224B AAAR161AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 1:30:03 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.006.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.701		450	1068
2.003		228	667
2.723		210	678
2.863		237	330
2.944		1980	6621
3.287		778	4328
3.478		286	1769
3.569		6025	17437
3.786	TCX	45765	87283
3.989		1813	3771
4.066		2387	4134
4.134		10904	23787
4.266		1217	2696
4.434		4227	4989
4.554		382	386
4.596		11887	23756
4.7		177	213
4.766		3125	7846
4.848		24325	51648
4.902		9429	15486
4.985		10182	18569
5.076		4974	6451
5.115		5709	16137
5.246		8940	22856
5.316		1302	1290
5.366		7366	12822
5.415		1124	1484
5.523		628	859
5.574		7574	15671
5.719		538	748
5.771		8948	23368
6.028		3174	6688
6.084		3276	4946
6.144		7605	21958
6.233		17034	39484
6.334		1365	1709
6.407		2577	4473
6.471		19632	59510
6.575		6218	12809
6.666		793	862
6.71		18547	38925
6.784		7520	11673
6.833		3654	5649
6.978		10708	25240
7.049		3706	5809
7.095		1224	1706
7.205		2490	4517
7.281		21327	54512
7.576		10760	20700
7.654		3041	7606
7.879		382	796
8.025		2131	5923
8.32		5320	13408

ASX73 1434

RT A	Compound A	Height A	Area A
8.416		145	245
8.748		2070	6982
9.096	DCB	21146	69640
9.393		216	1486

ASX73 1435

LANCASTER LABORATORIES

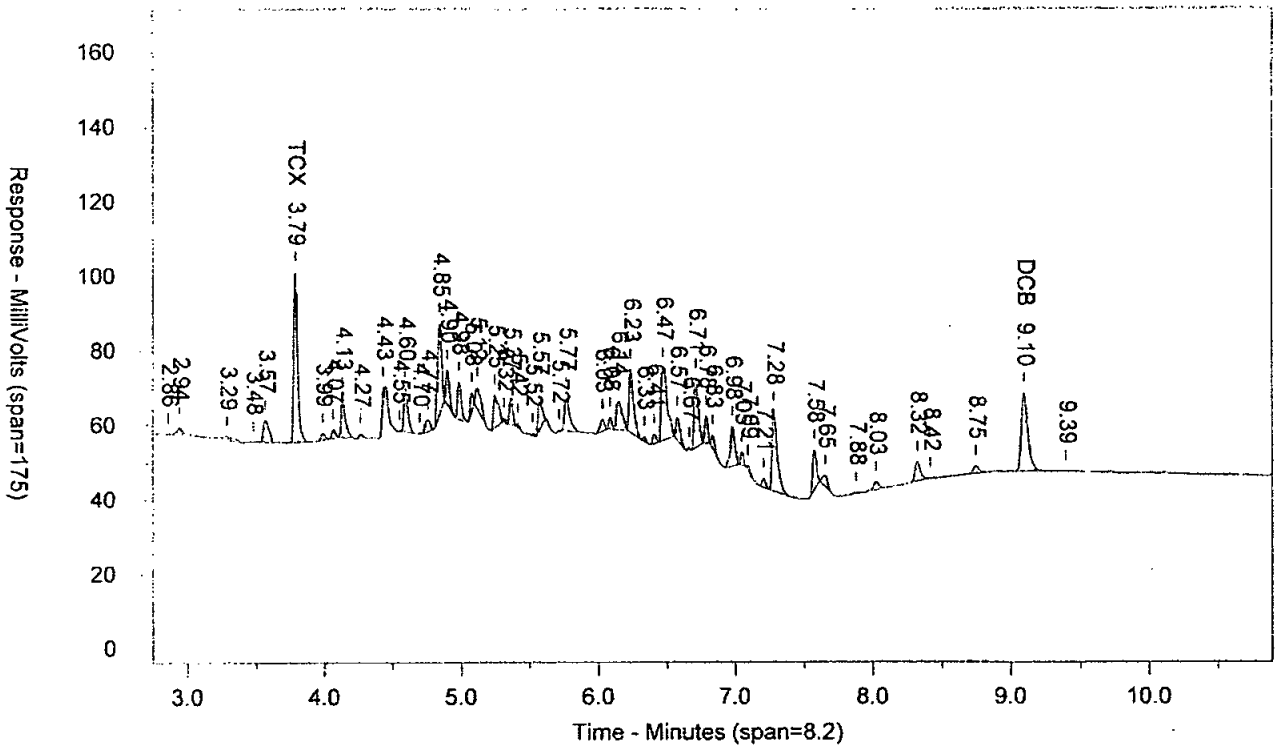
Sample Number: AR1611224B AAAR161AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 1:30:03 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 1p7207B.006.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.53		36598	207037
2.677		396	1106
2.991		387	3145
3.353		315	1147
3.498		2704	7857
3.627	TCX	16198	34042
3.849		731	1522
3.934		1000	2008
4.01		4673	10304
4.168		571	1273
4.308		7507	18508
4.476		5630	13233
4.59		2278	6312
4.698		12461	25212
4.751		4207	7564
4.86		3896	5631
4.905		1789	2141
4.939		3189	7273
5.096		5257	17268
5.228		3860	7597
5.289		1015	1665
5.415		5603	14337
5.552		4453	10879
5.83		761	1296
5.924		7079	25793
6.03		11018	23785
6.148		1929	3482
6.204		13035	27859
6.337		10747	21605
6.448		1714	2255
6.496		6613	9174
6.527		3022	3949
6.576		1975	2856
6.704		937	1658
6.763		7022	15323
6.852		2927	4460
6.892		407	361
6.989		16997	36966
7.259		3137	5480
7.323		11280	25561
7.539		362	697
7.605		139	196
7.722		1762	4042
7.888		4322	11125
8.249		1773	7124
8.576	DCB	17276	46653
9.44		162	781
10.363		324	3041

ASX73 1436

AR1611224B AAAR161AA ICAL 1220699999

\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.006.RAW



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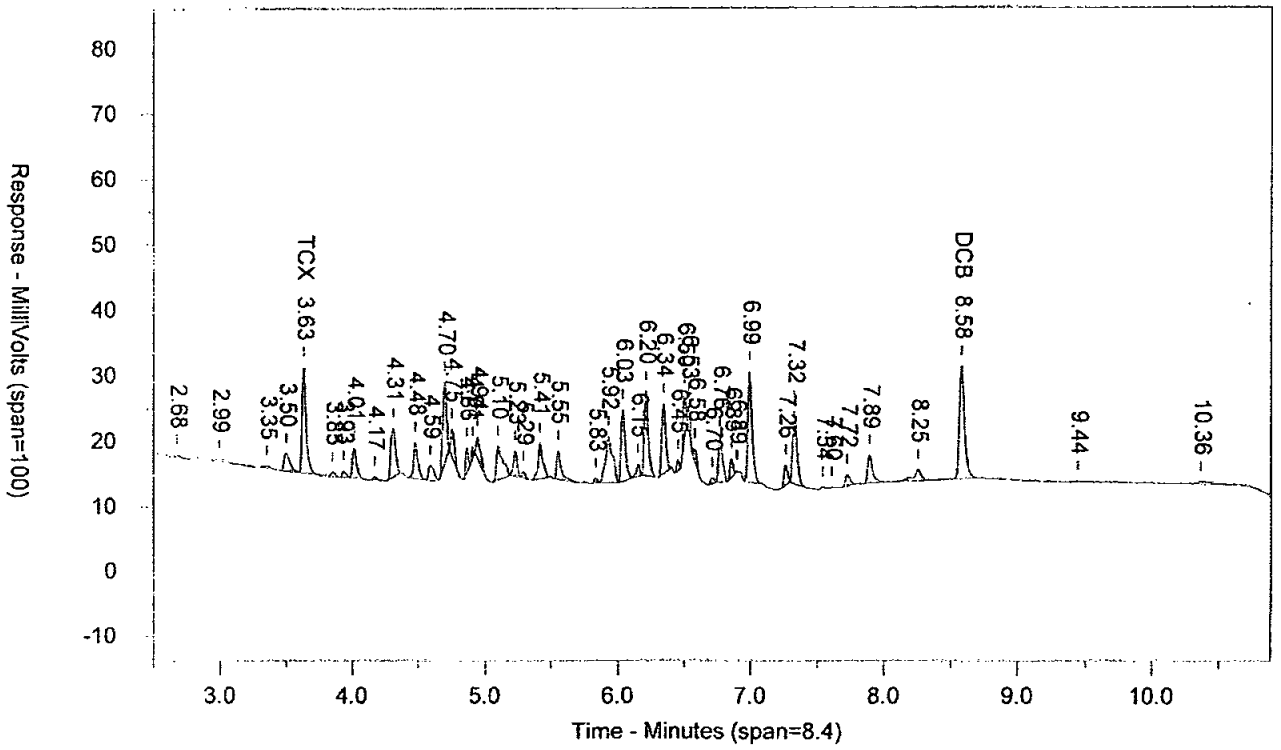

ASX73 1437

LANCASTER LABORATORIES

Sample Number: AR1611224B AAAR161AA ICAL 1220699999
Injected On: 7/25/2012 1:30:03 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1
Dilution Factor: 1

Threshold: 3
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
3.786	45765	5.345	TCX	3.627	16198	4.508	TCX
9.096	21146	5.255	DCB	8.576	17276	5.247	DCB

Files:
Area File: 1p7207.006.RAW
Area File: 1p7207B.006.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 1:40:30 PM
File Reported On: 7/25/2012 at 3:00:14 PM

AR1611224B AAAR161AA ICAL 1220699999

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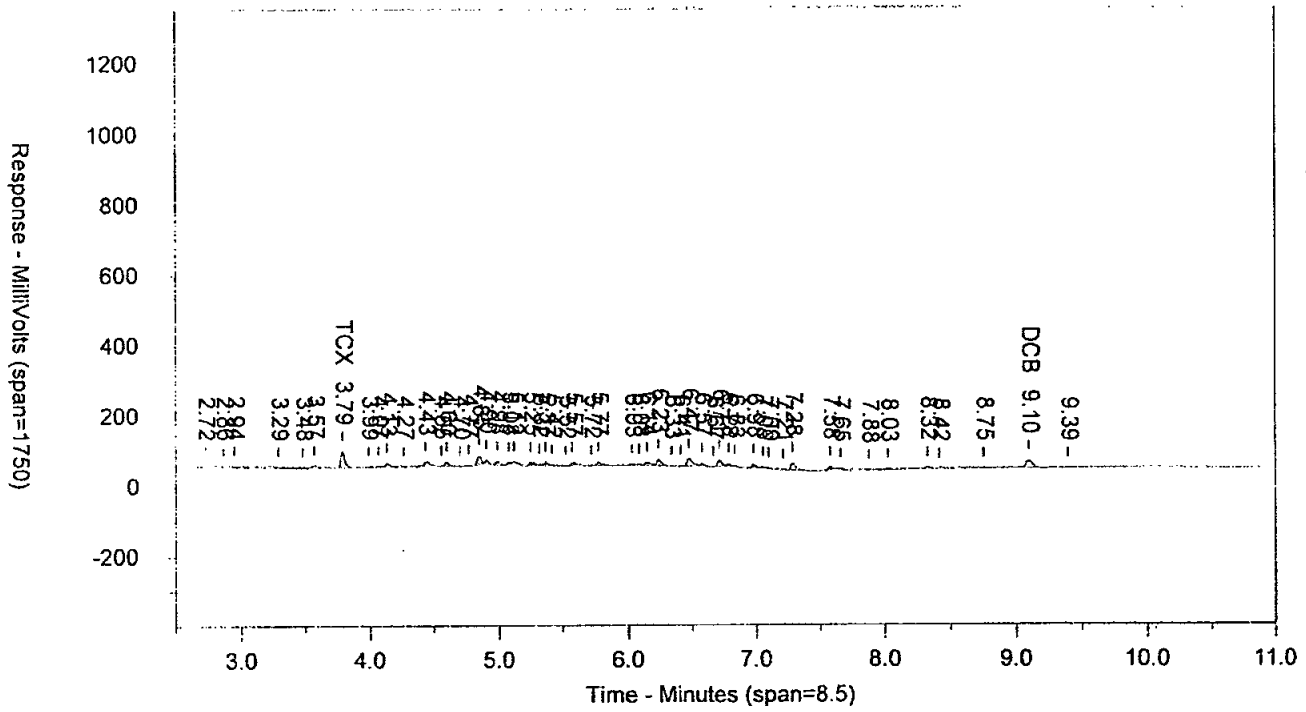

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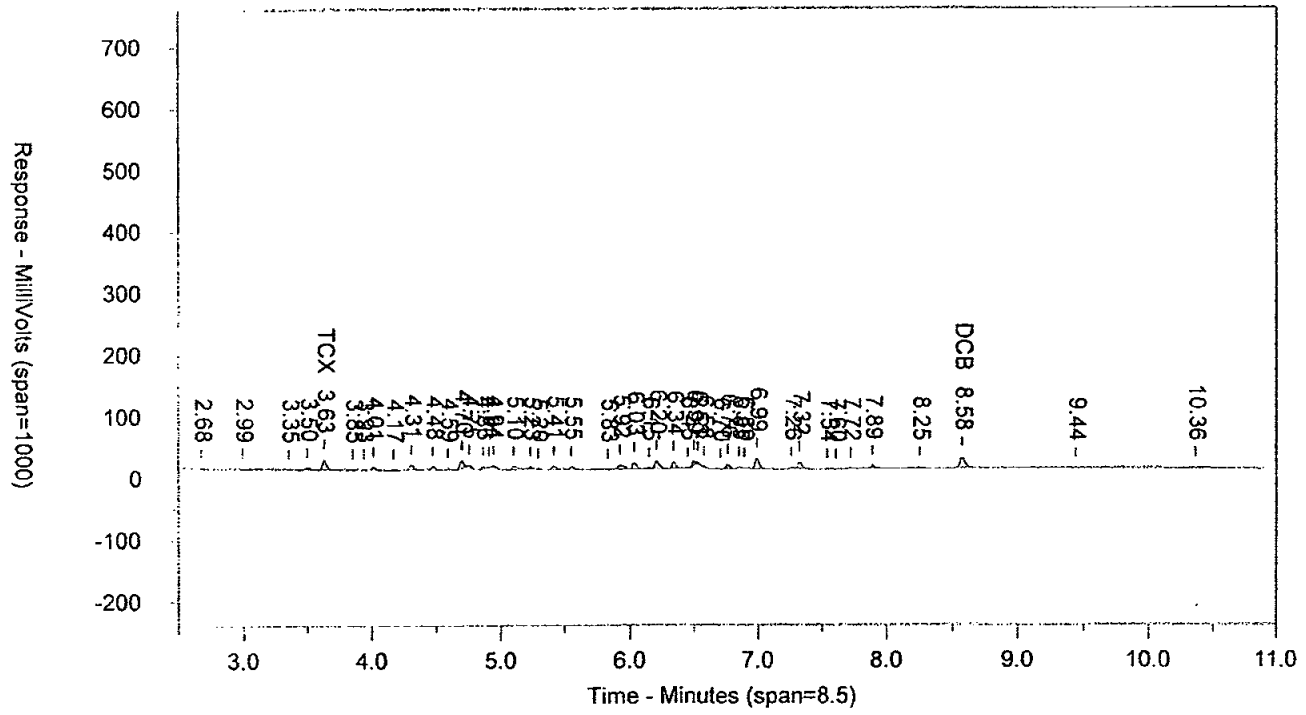

ASX73 1439

LANCASTER LABORATORIES

Sample Number: AR1621224B AAAR162AA ICAL 1220699999
Injected On: 7/25/2012 1:44:51 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.007.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

Injection Volume: 1 ul
Analyst: 2855

RT A	Compound A	Height A	Area A
1.705		781	2206
2.073		278	2755
2.724		251	881
2.86		924	1494
2.944		1535	2721
3.288		905	3860
3.428		124	278
3.568		5767	18024
3.785	TCX	177809	359120
3.988		3002	5963
4.064		5265	9286
4.134		17996	38495
4.264		1957	4098
4.433		6876	8938
4.451		4753	5482
4.551		613	590
4.595		19879	40455
4.765		5711	15111
4.848		40706	87986
4.901		15732	25460
4.984		17285	31934
5.076		8488	10589
5.115		9433	26837
5.245		15372	39487
5.315		2318	2264
5.365		12739	22295
5.415		2003	2599
5.524		706	875
5.574		15906	58069
5.717		1060	1446
5.771		14940	38560
5.943		434	760
6.028		5388	11385
6.083		5639	8639
6.145		13218	37672
6.232		28639	67158
6.335		2664	3956
6.407		4215	7001
6.47		32667	101029
6.574		10708	22086
6.666		1324	1478
6.71		31408	66740
6.783		12660	19570
6.833		6134	9520
6.979		18114	42643
7.049		6226	9688
7.095		2353	3230
7.205		4505	8158
7.28		36666	96281
7.575		18310	35145
7.655		5143	12549
7.877		1078	2502
8.024		3810	10972

ASX73 1440

RT A	Compound A	Height A	Area A
8.32		9271	23416
8.409		288	515
8.747		3740	11694
9.095	DCB	81374	286872

ASX73 1441

LANCASTER LABORATORIES

Sample Number: AR1621224B AAAR162AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 1:44:51 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.007.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.528		35963	184563
2.676		326	564
2.826		125	302
2.997		381	2659
3.353		389	1363
3.497		2383	6818
3.627	TCX	73175	145346
3.849		1270	2617
3.933		2155	4342
4.01		8024	17730
4.167		996	2286
4.307		13543	39265
4.475		9740	22714
4.591		2924	8623
4.697		21694	42960
4.75		6907	12216
4.86		6815	9880
4.905		2990	3558
4.938		5484	12285
5.096		7695	16390
5.228		6719	13054
5.288		1665	2619
5.414		9735	25029
5.551		7332	14623
5.751		292	577
5.829		1312	2188
5.923		11838	42781
6.029		18383	38969
6.147		3317	5850
6.203		21936	46296
6.336		18555	36418
6.401		759	863
6.448		3037	4034
6.496		11609	15055
6.526		5161	6765
6.575		3744	5342
6.704		1682	3022
6.762		12159	26394
6.851		5007	7379
6.89		728	656
6.988		29497	63591
7.257		5531	9576
7.322		19959	44798
7.538		830	1634
7.603		240	327
7.72		3137	7206
7.887		7711	20295
8.173		190	476
8.248		2898	6891
8.573	DCB	66186	191560
9.438		191	743
10.353		198	1182

ASX73 1442

AR1621224B AAAR162AA ICAL 1220699999

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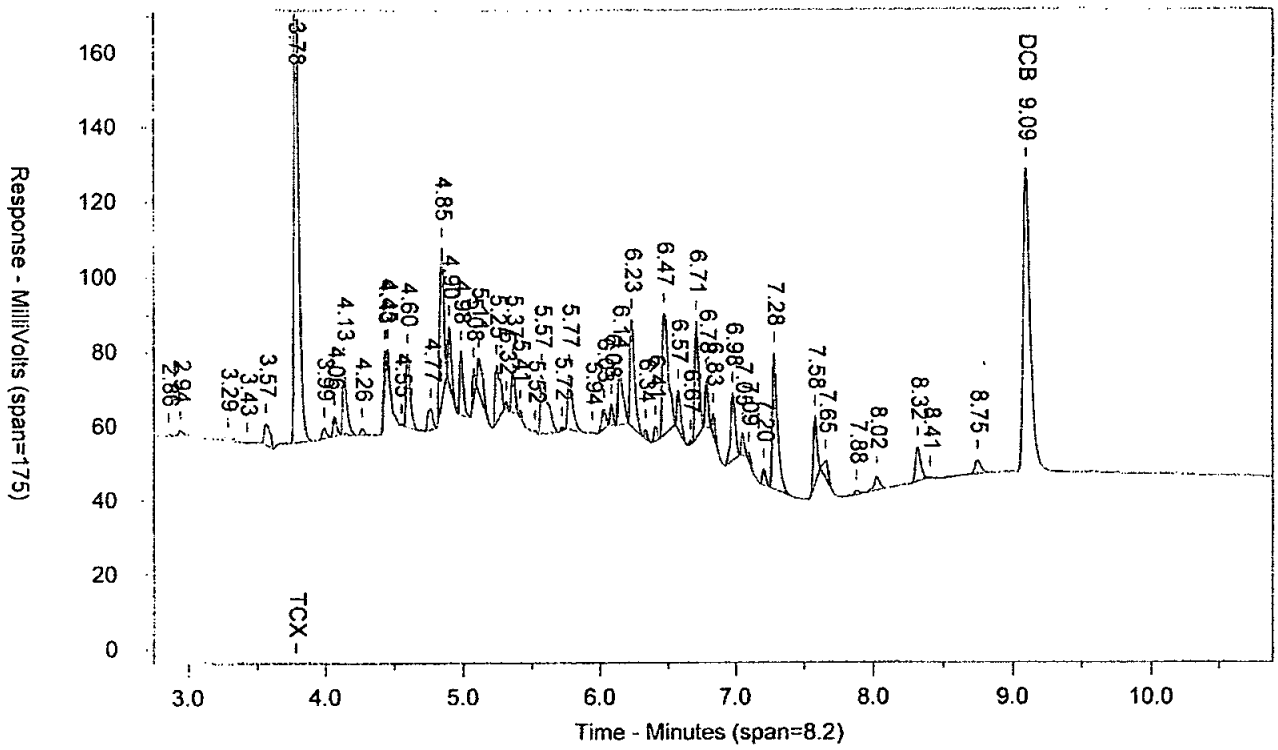

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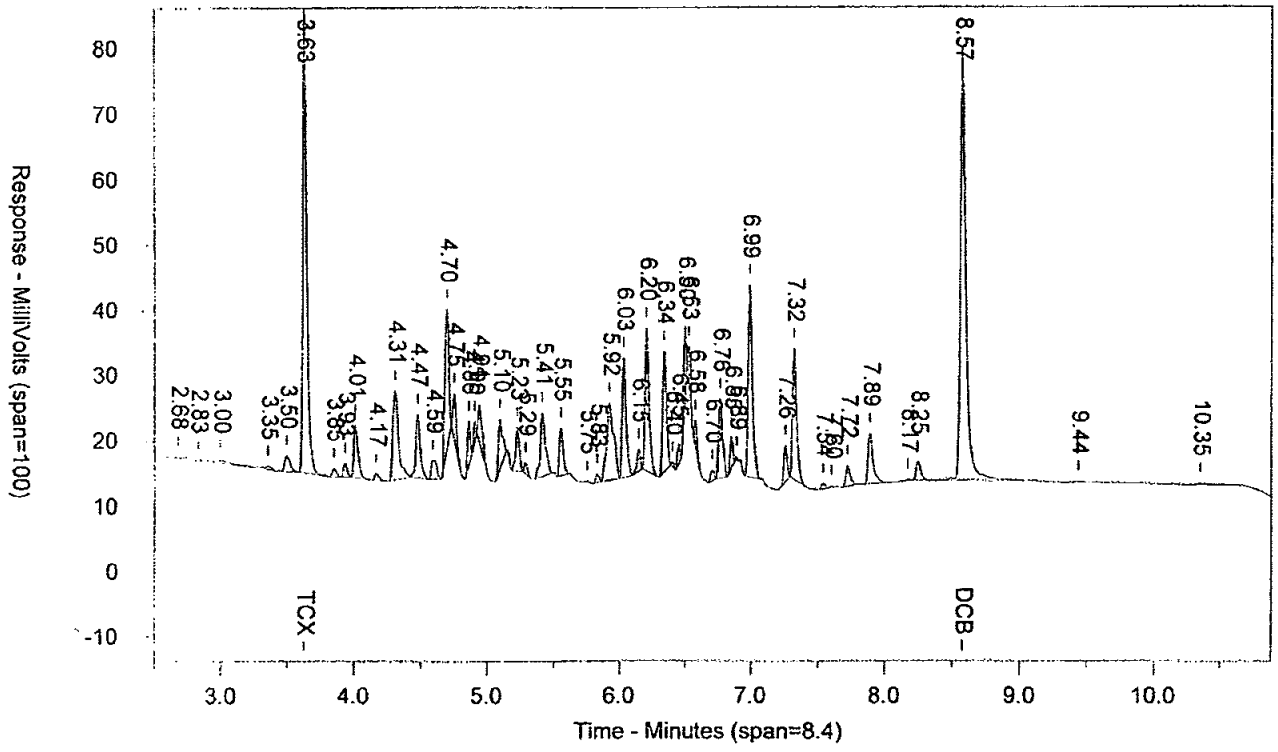

GSX73 1443

LANCASTER LABORATORIES

Sample Number: AR1621224B AAAR162AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 1:44:51 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.785	177809	20.766	TCX	3.627	73175	20.367	TCX
9.095	81374	20.224	DCB	8.573	66186	20.1	DCB

Files:
Area File: 1p7207.007.RAW
Area File: 1p7207B.007.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 1:55:18 PM
File Reported On: 7/25/2012 at 3:00:18 PM

ASX73 1444

AR1621224B AAAR162AA ICAL 1220699999

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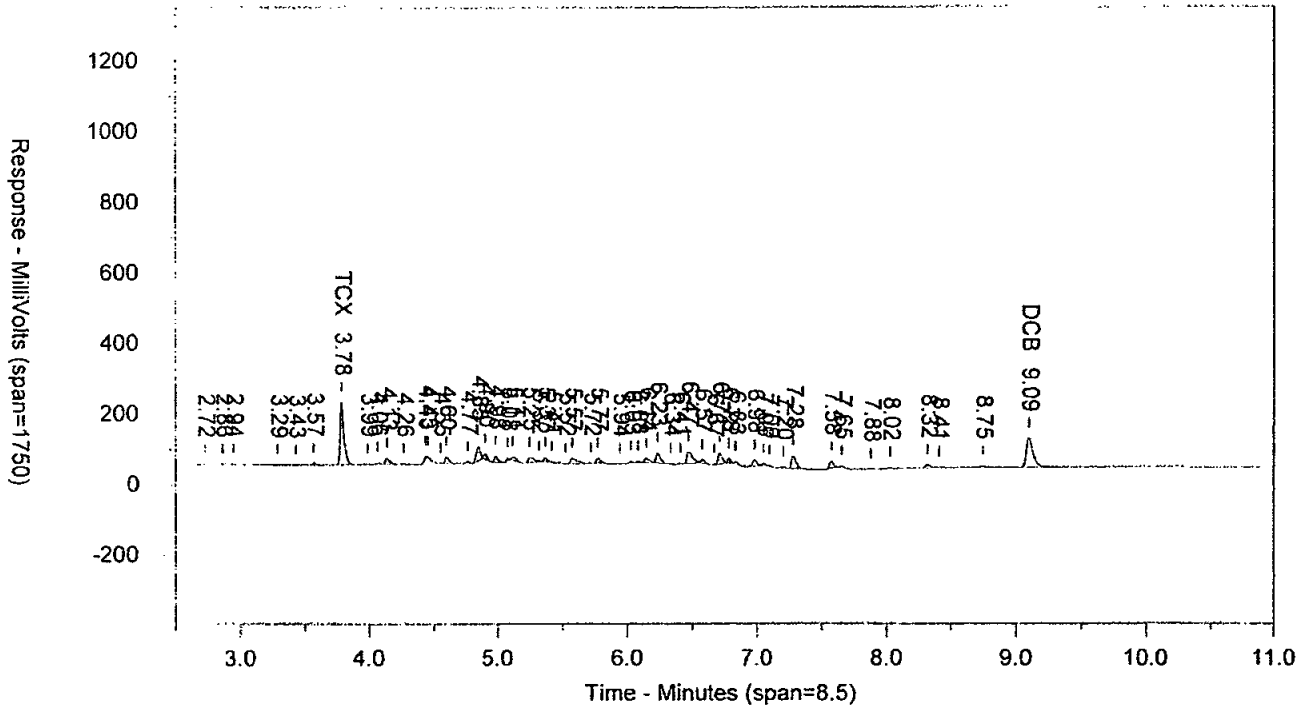

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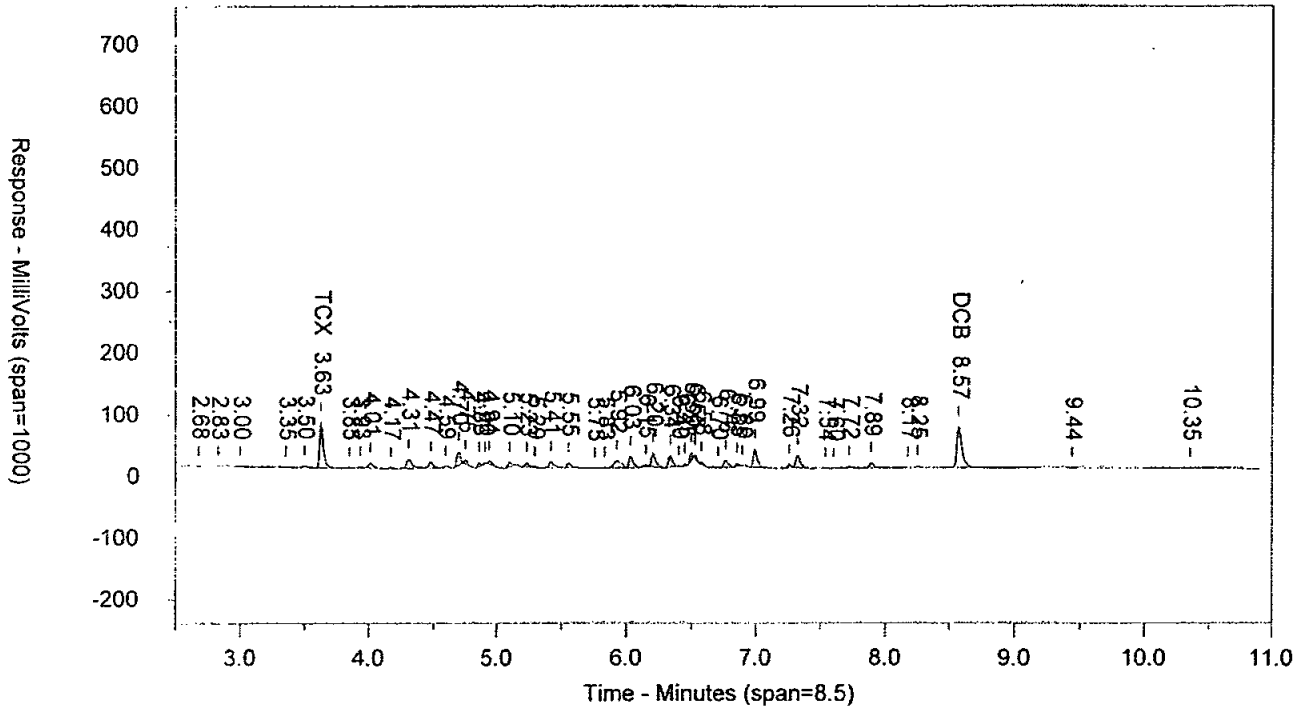

ASX73 1445

LANCASTER LABORATORIES

Sample Number: AR1631224B AAAR163AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 1:59:37 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.008.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.702		639	1883
1.821		289	1712
1.991		351	1056
2.074		566	3893
2.256		277	1255
2.641		1337	2954
2.725		160	249
2.859		1966	3458
2.944		2054	3365
3.286		1546	7422
3.421		417	967
3.568		6944	21257
3.677		399	1316
3.784	TCX	340610	729347
3.987		5987	11906
4.064		10685	18801
4.133		34473	74927
4.264		4052	8820
4.432		13812	15607
4.451		8748	11599
4.55		1320	1281
4.594		38968	81715
4.765		11112	29018
4.847		76276	164559
4.9		28671	47475
4.984		33375	62599
5.075		15757	20157
5.114		18162	54173
5.245		29622	76593
5.315		4523	4410
5.364		24717	43717
5.414		3841	5167
5.525		1208	1436
5.573		31226	115824
5.715		2297	3206
5.77		28625	73646
5.943		868	1423
6.027		10717	22640
6.082		11182	17267
6.143		25425	72762
6.231		54513	129369
6.336		2367	2521
6.365		3690	4265
6.404		6710	10568
6.469		62060	196427
6.573		21049	43095
6.666		2594	2799
6.709		61050	131925
6.783		23562	36339
6.831		12245	19406
6.978		36114	86851
7.048		11639	17834
7.094		4671	6919

(3) Jm 2855 25 July 12

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RT A	Compound A	Height A	Area A
7.204		9198	16978
7.279		73918	199307
7.575		35231	69122
7.653		10667	27239
7.874		2576	6264
8.023		8411	27749
8.211		2540	11041
8.319		18399	48543
8.409		614	1090
8.745		7774	24629
9.093	DCB	154116	578213
9.97		134	361

ASX73 1447

LANCASTER LABORATORIES

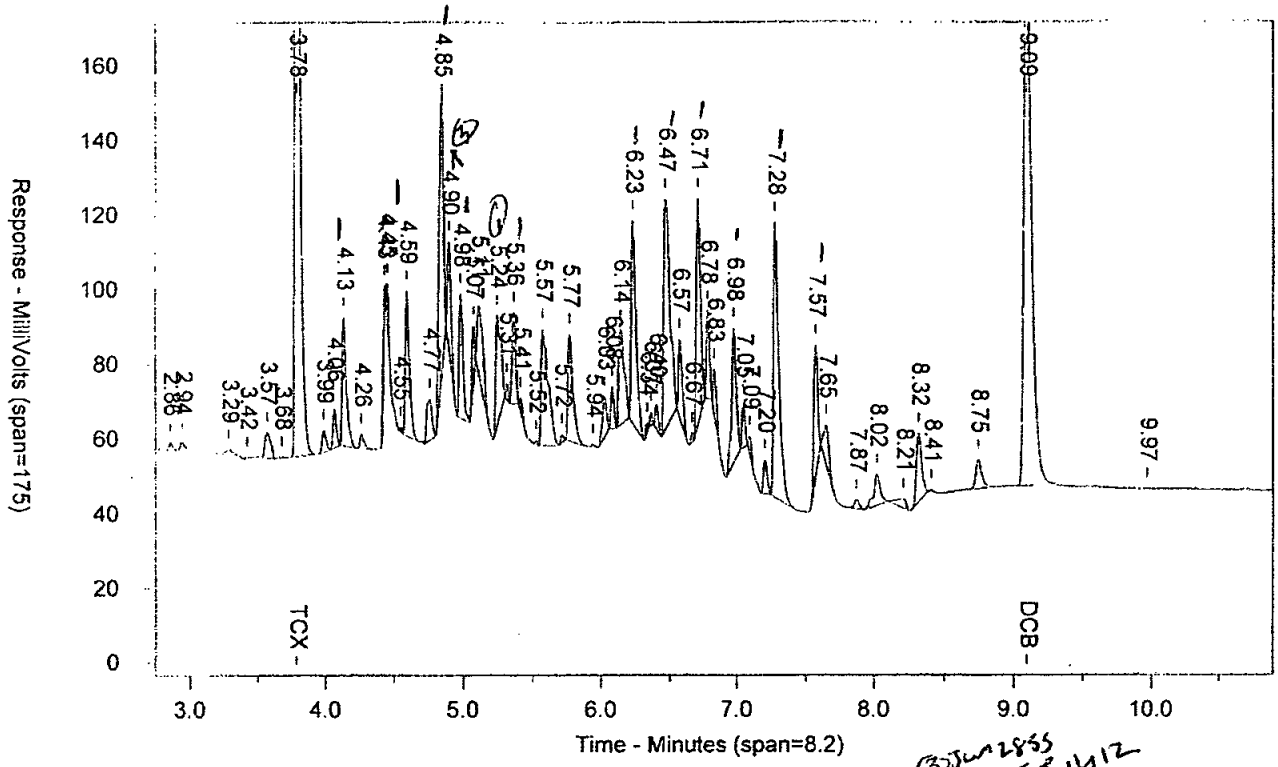
Sample Number: AR1631224B AAAR163AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 1:59:37 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 1p7207B.008.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.53		34244	179176
2.575		521	1204
2.678		467	805
2.73		529	1104
2.826		132	283
2.993		350	2221
3.35		810	3322
3.496		3020	8792
3.625	TCX	151675	298628
3.849		2632	5414
3.932		4425	8868
4.009		15738	34393
4.167		1995	4504
4.306		26405	75640
4.474		19463	44782
4.602		5927	17525
4.696		43055	84917
4.749		13283	22922
4.859		13919	19702
4.903		5835	6665
4.937		10659	24117
5.095		15379	32105
5.227		13567	26618
5.287		3240	5043
5.413		19414	49796
5.551		14989	36049
5.751		682	1360
5.829		2622	4299
5.921		24635	96120
6.027		35382	72752
6.147		6723	11743
6.201		42248	86948
6.335		37222	71127
6.399		1502	1583
6.447		6254	8074
6.494		22739	30038
6.525		11107	13671
6.574		7980	11068
6.703		3546	6414
6.761		24612	52649
6.85		9946	14542
6.89		1585	1448
6.986		59635	125238
7.256		11543	20262
7.32		40662	90035
7.537		2329	7897
7.72		6761	19266
7.887		15766	41611
8.248		6225	16618
8.571	DCB	127262	360882
9.409		152	670
10.353		151	897

ASX73 1448

AR1631224B AAAR163AA ICAL 1220699999

\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.008.RAW



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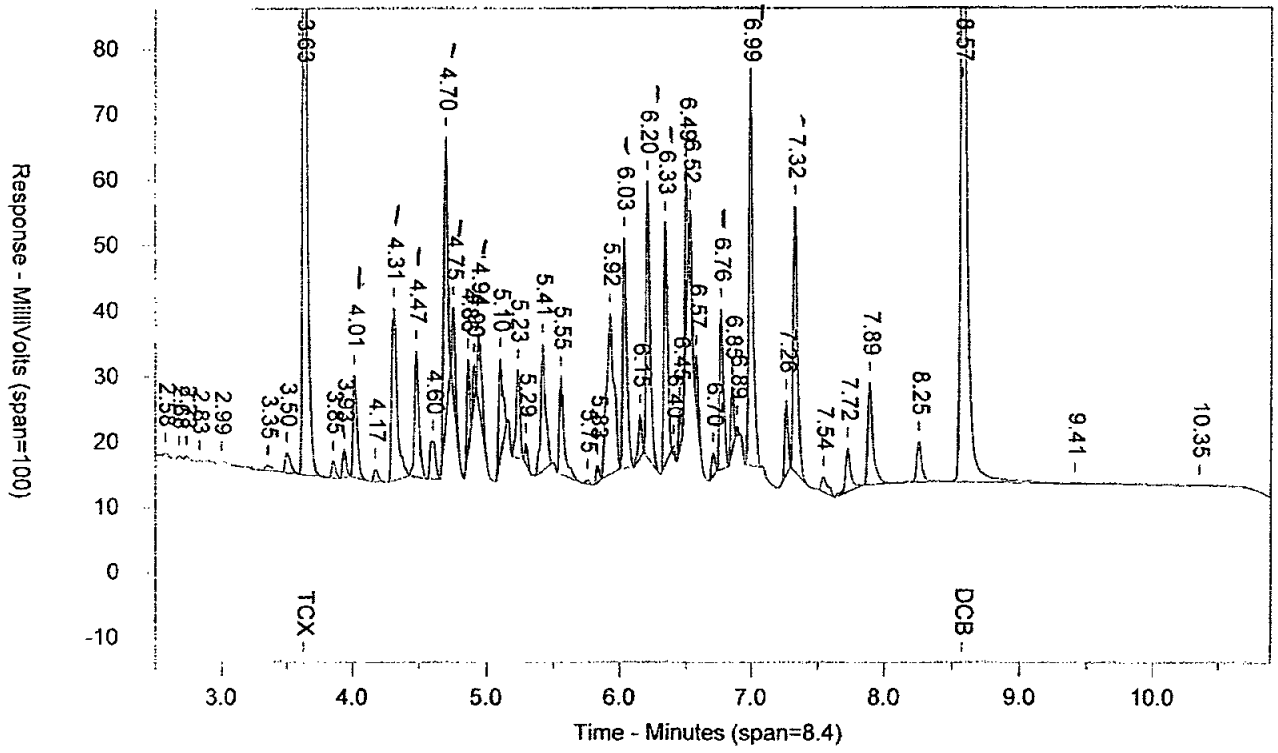

ASX73 1449

LANCASTER LABORATORIES

Sample Number: AR1631224B AAAR163AA ICAL 1220699999
Injected On: 7/25/2012 1:59:37 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1
Dilution Factor: 1

Threshold: 3
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
3.784	340610	39.779	TCX	3.625	151675	42.216	TCX
9.093	154116	38.302	DCB	8.571	127262	38.649	DCB

Files:
Area File: 1p7207.008.RAW
Area File: 1p7207B.008.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 2:10:04 PM
File Reported On: 7/25/2012 at 3:00:22 PM

ASX73 1490

AR1631224B AAAR163AA ICAL 1220699999

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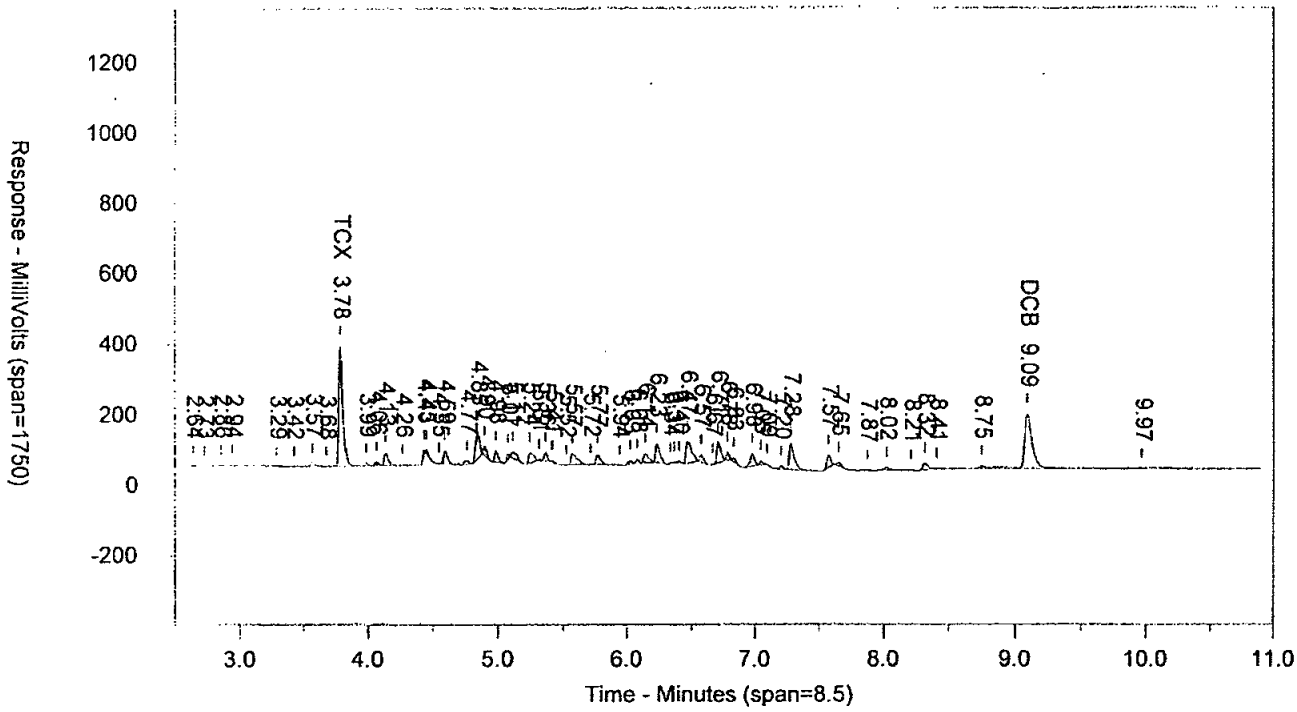

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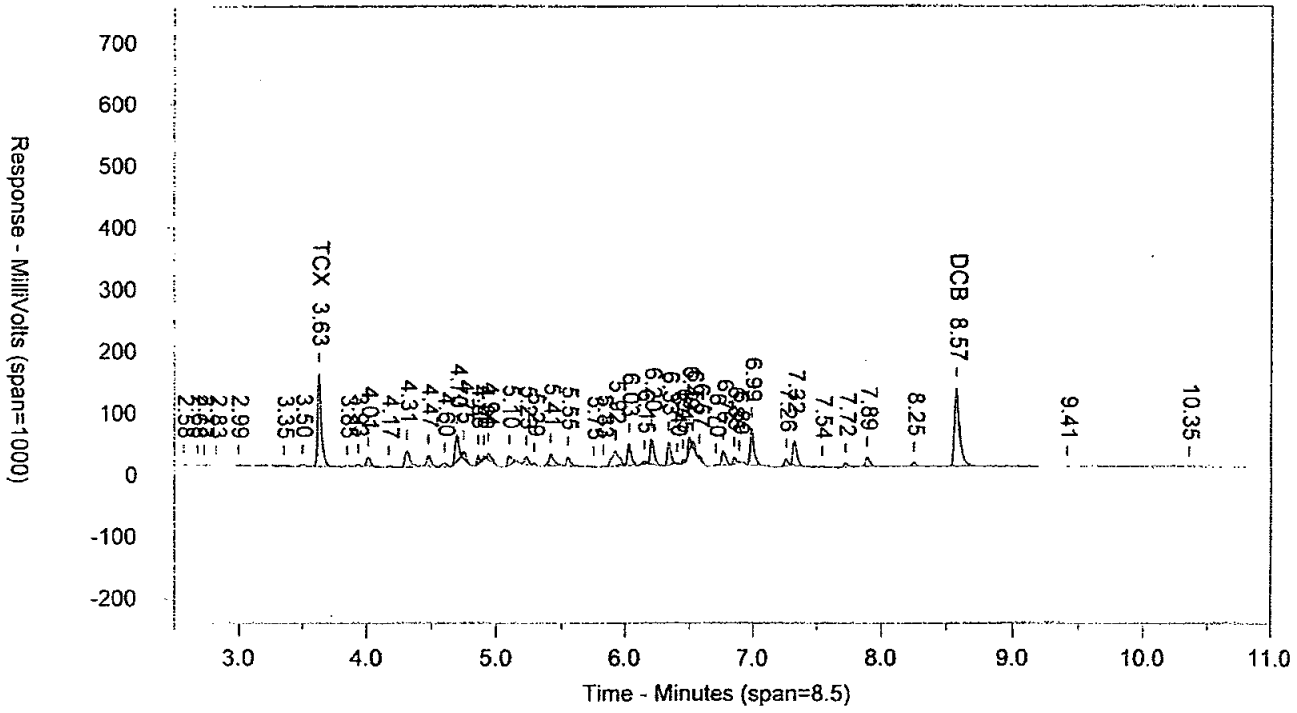

ASX73 1451

LANCASTER LABORATORIES

Sample Number: AR1641224B AAAR164AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 2:14:21 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.009.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.711		652	1759
1.821		265	1440
2.099		757	6315
2.591		585	4254
2.728		200	603
2.86		2769	4980
2.945		1318	2135
2.997		1039	2923
3.103		482	1852
3.294		1538	5074
3.57		6623	21275
3.786	TCX	470026	1028726
3.989		13969	27810
4.066		20737	37130
4.135		73570	163965
4.265		9442	20038
4.434		29633	34184
4.452		18732	24825
4.551		2802	2682
4.597		82738	179546
4.698		1237	1395
4.767		25513	68534
4.849		168601	365670
4.902		59193	96852
4.985		73267	140609
5.077		33162	41543
5.115		38795	118535
5.246		63296	165995
5.316		9453	9048
5.366		53085	94395
5.415		8478	11825
5.529		2231	2594
5.574		68227	261847
5.717		5479	7658
5.772		61623	164244
5.947		2122	3628
6.029		23896	51080
6.084		24590	38053
6.145		54375	157707
6.233		114704	276425
6.339		12716	21781
6.408		17869	29997
6.47		133767	430419
6.576		47798	102108
6.668		5570	5974
6.71		134044	292450
6.784		50986	77077
6.833		26899	43957
6.979		80561	192357
7.05		26322	40793
7.097		10600	15345
7.206		21085	39203
7.281		164494	471936

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RT A	Compound A	Height A	Area A
7.577		79968	156043
7.655		21318	53297
7.877		4683	11134
8.025		18878	59244
8.321		42721	112179
8.409		1070	1794
8.748		17153	52332
9.096	DCB	212716	833140
9.967		184	541
10.147		126	690

ASX73 1453

LANCASTER LABORATORIES

Sample Number: AR1641224B AAAR164AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 2:14:21 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.009.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.53		28862	150934
2.679		294	492
2.734		811	1732
2.892		401	823
3.006		377	2109
3.196		356	790
3.35		465	2025
3.499		2478	7271
3.627	TCX	214095	425731
3.851		6190	12681
3.935		8905	17520
4.01		35247	75114
4.168		4727	10704
4.307		57217	162520
4.476		44144	99199
4.605		13230	37874
4.697		98872	188475
4.75		30414	51063
4.861		33481	45074
4.904		12940	14425
4.938		23979	53645
5.097		35399	72050
5.154		4799	5405
5.229		31183	59674
5.289		7300	11169
5.415		43457	110107
5.497		1769	2186
5.552		32891	78012
5.754		1359	2669
5.831		6182	10301
5.923		51715	181973
6.029		77072	151101
6.149		14984	25561
6.202		92204	184232
6.336		83886	153911
6.402		3477	3812
6.449		14444	18270
6.495		55068	67730
6.525		24284	29302
6.576		19363	26790
6.706		8793	15592
6.763		56201	116773
6.851		22849	32366
6.892		3820	3513
6.917		3631	5084
6.988		134448	276050
7.258		25308	42397
7.321		92844	203303
7.539		3497	6649
7.605		1208	1697
7.723		14695	34661
7.889		36670	97733
8.173		124	287
8.25		13624	34760

ASX73 1454

8.574	DCB	172920	484175
9.41		197	859
10.353		158	1081

ASX73 1455

AR1641224B AAAR164AA ICAL 1220699999

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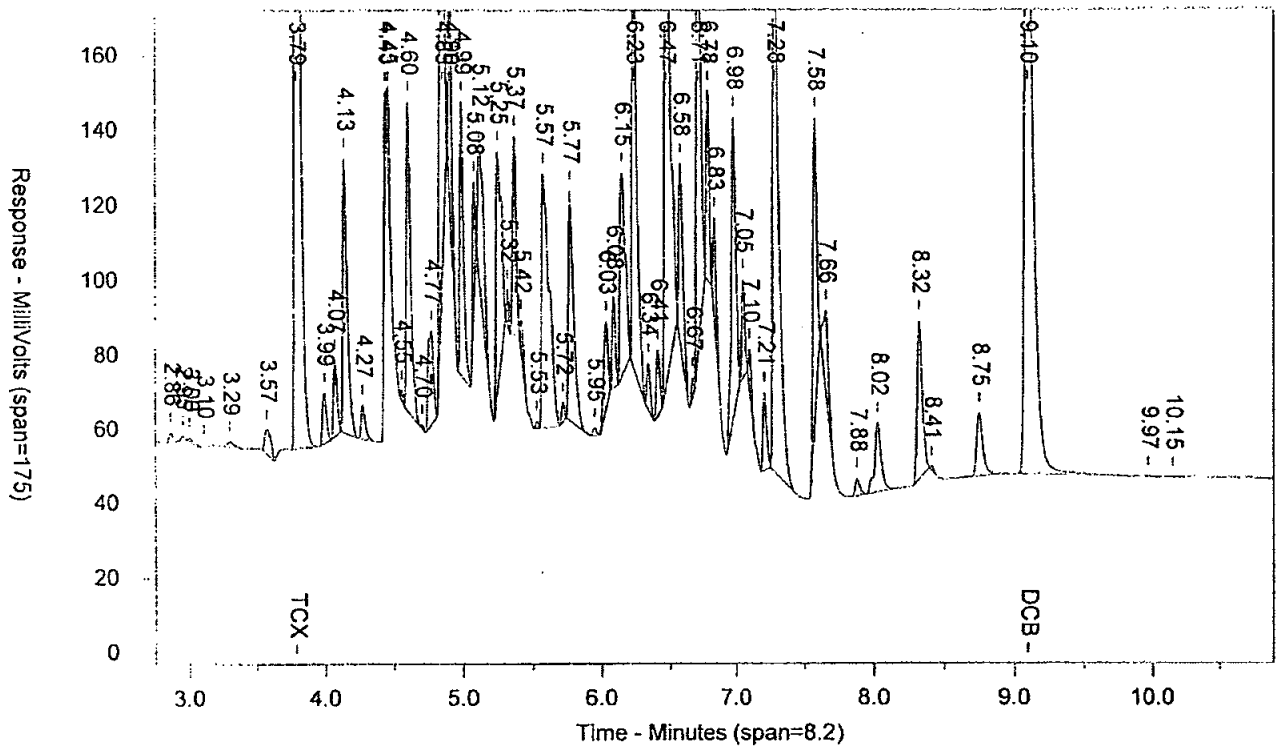

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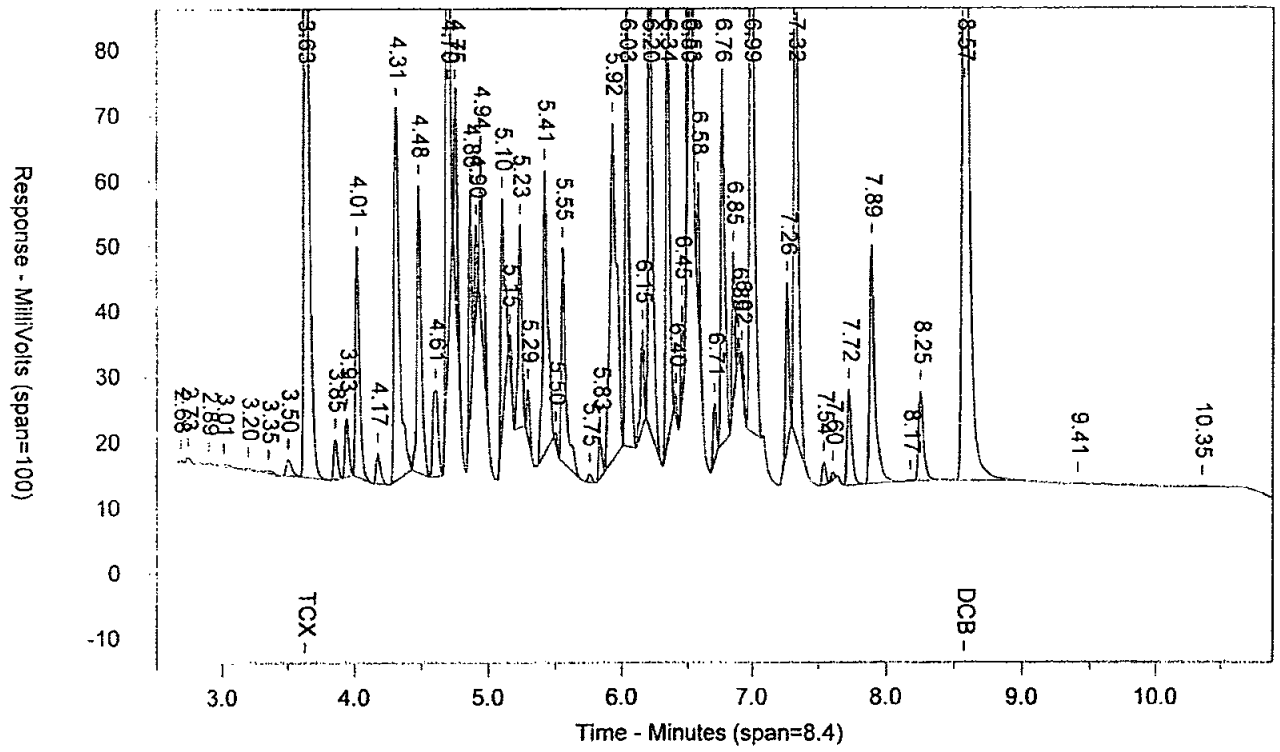

05X73 1456

LANCASTER LABORATORIES

Sample Number: AR1641224B AAAR164AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 2:14:21 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.786	470026	54.893	TCX	3.627	214095	59.589	TCX
9.096	212716	52.865	DCB	8.574	172920	52.501	DCB

Files:
Area File: 1p7207.009.RAW
Area File: 1p7207B.009.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 2:24:49 PM
File Reported On: 7/25/2012 at 3:00:26 PM

ASX73 1457

AR1641224B AAAR164AA ICAL 1220699999

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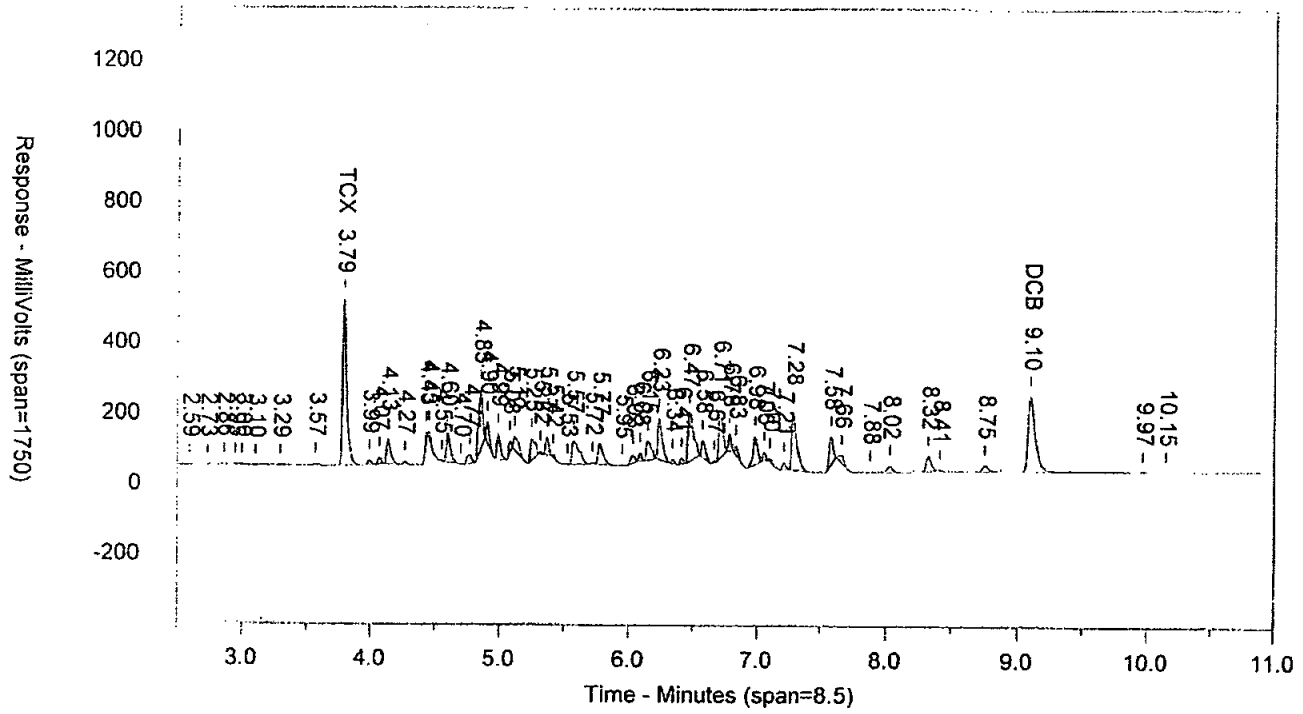

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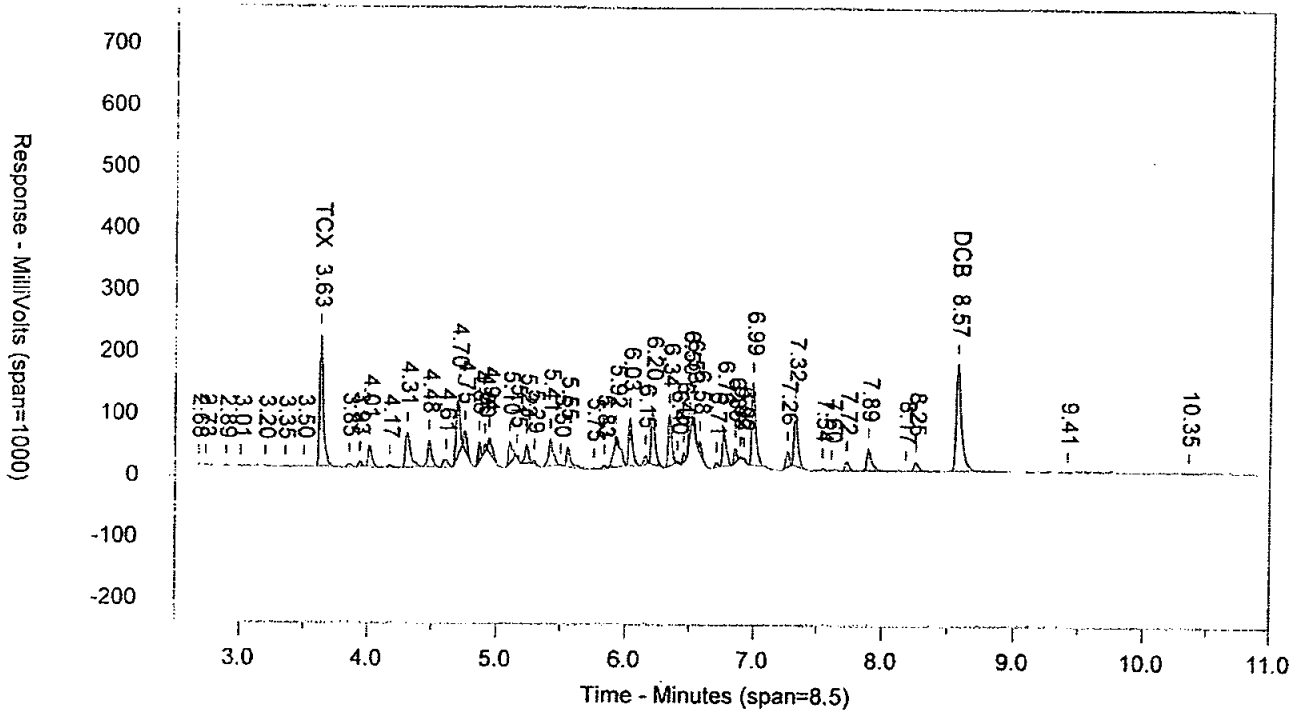

ASX73 1458

LANCASTER LABORATORIES

Sample Number: AR1651224B AAAR165AA ICAL 1220699999
Injected On: 7/25/2012 2:29:11 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.010.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

Injection Volume: 1 ul
Analyst: 2855

RT A	Compound A	Height A	Area A
1.712		801	2299
1.814		605	2485
2.002		566	2372
2.096		605	2713
2.722		253	787
2.859		3575	6434
2.944		1276	2014
2.996		1134	1780
3.294		2484	7242
3.421		158	347
3.568		5201	20781
3.785	TCX	600099	1336513
3.988		26096	52918
4.065		34714	61883
4.132		133518	300021
4.264		17906	38290
4.432		54621	63205
4.451		34820	44864
4.55		5311	5021
4.595		151508	336308
4.696		2292	2767
4.766		47527	128335
4.847		304436	658808
4.899		109829	179942
4.983		133914	261886
5.074		63447	76423
5.114		69754	216885
5.244		113724	298082
5.314		18230	17717
5.364		96408	170273
5.413		15295	20620
5.528		3859	4429
5.572		124773	489259
5.715		10204	14230
5.77		110873	301064
5.945		4056	7034
6.026		44585	94468
6.083		45022	69640
6.142		98557	285589
6.231		206967	497539
6.337		24174	42565
6.406		33259	54771
6.467		242698	782132
6.574		91617	197315
6.666		10342	11312
6.709		248919	543479
6.782		92945	137557
6.831		50604	82643
6.977		148427	354478
7.048		45885	70029
7.094		21398	30460
7.205		40781	76193
7.279		312433	924007

ASX73 1454

RT A	Compound A	Height A	Area A
7.574		150594	301105
7.653		40478	98111
7.875		8101	19653
7.981		2093	3597
8.023		31114	73848
8.319		80220	219016
8.405		1593	2680
8.745		31957	99072
9.093	DCB	269979	1081389
9.966		273	815
10.144		170	1085

ASX73 1460

LANCASTER LABORATORIES

Sample Number: AR1651224B AAAR165AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 2:29:11 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.010.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.527		27397	144416
2.678		295	481
2.733		1079	2333
2.888		411	817
2.993		295	1467
3.195		763	1774
3.353		419	1615
3.497		1447	4751
3.625	TCX	277691	556801
3.849		11833	24180
3.934		15687	30149
4.008		65206	134818
4.167		8851	19869
4.305		97351	224436
4.473		82250	181939
4.604		25332	71308
4.696		181697	344322
4.748		56394	91703
4.859		65304	84688
4.902		25781	27178
4.936		44794	97430
5.095		66162	131224
5.153		10471	11856
5.227		59701	112358
5.287		13927	20998
5.348		459	320
5.412		80942	201301
5.496		3355	4092
5.549		58578	106983
5.752		2637	5183
5.83		12093	19770
5.921		97050	334567
6.026		141618	268953
6.147		28535	48487
6.2		169592	331024
6.334		159063	280874
6.4		7172	7890
6.447		27935	34376
6.493		105550	130190
6.524		47965	55467
6.574		38742	53684
6.704		17858	31064
6.761		106943	217700
6.85		43314	59327
6.89		8575	7916
6.916		8255	10061
6.986		255839	514957
7.077		3106	4252
7.256		48878	80771
7.32		179538	381525
7.538		6238	11725
7.602		2585	3541
7.721		28842	67052
7.886		69939	187651

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8.165		111	229
8.248		26123	67529
8.571	DCB	222715	615710
9.41		266	1123
10.35		325	19412

ASX73 1462

AR1651224B AAAR165AA ICAL 1220699999

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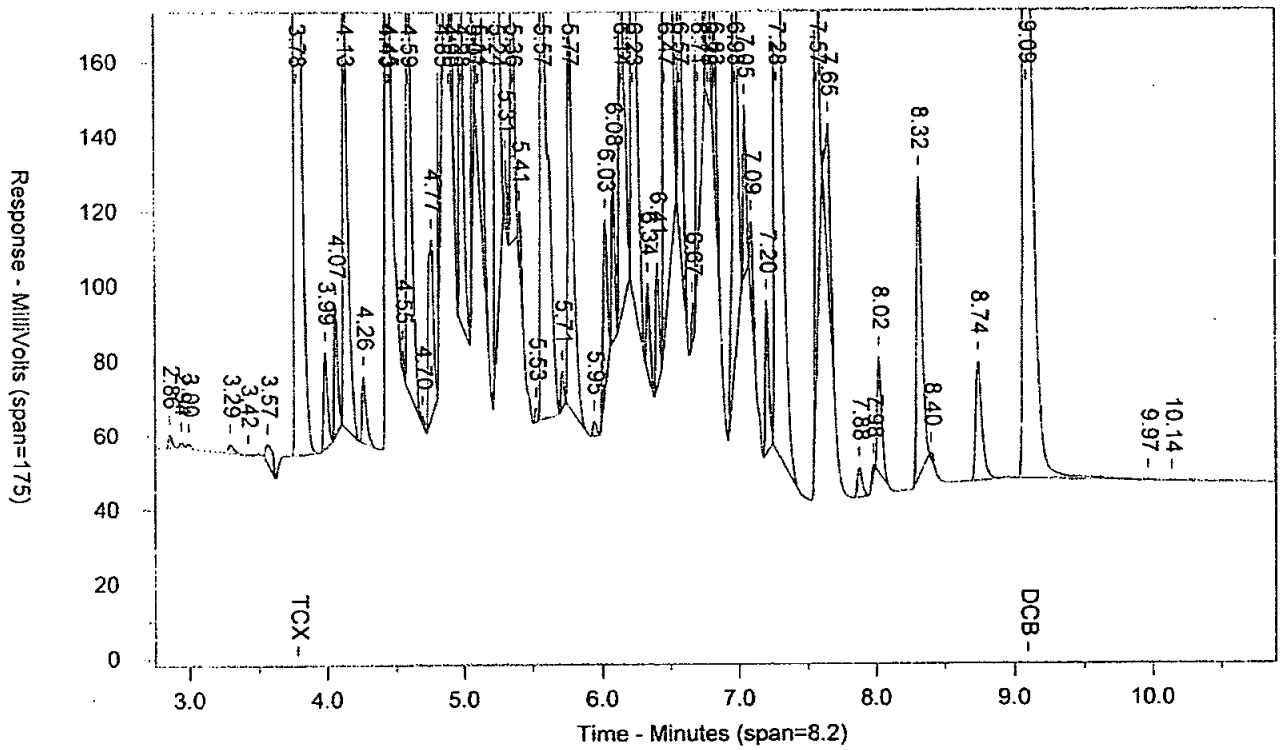

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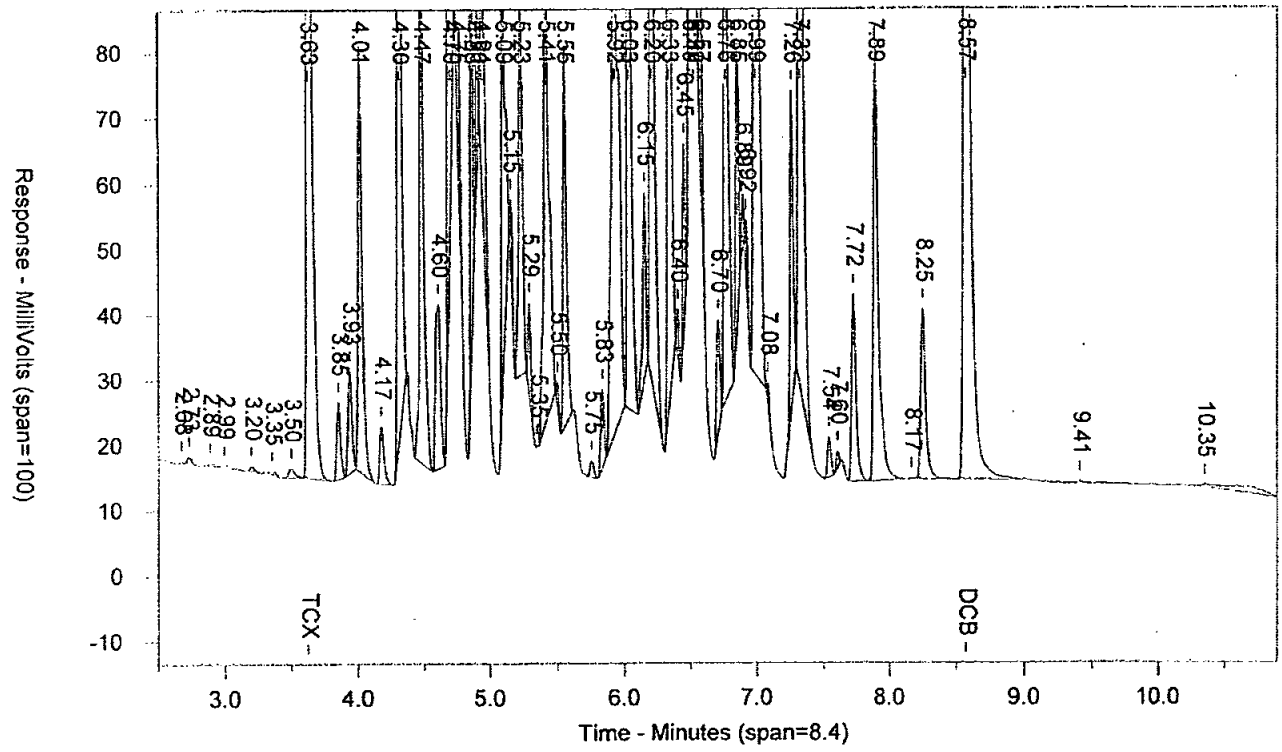

ASX79 1463

LANCASTER LABORATORIES

Sample Number: AR1651224B AAAR165AA ICAL 1220699999
Injected On: 7/25/2012 2:29:11 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1
Dilution Factor: 1

Threshold: 3
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
3.785	600099	70.084	TCX	3.625	277691	77.29	TCX
9.093	269979	67.097	DCB	8.571	222715	67.62	DCB

Files:
Area File: 1p7207.010.RAW
Area File: 1p7207B.010.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 2:39:38 PM
File Reported On: 7/25/2012 at 3:00:30 PM

AR1651224B AAAR165AA ICAL 1220699999

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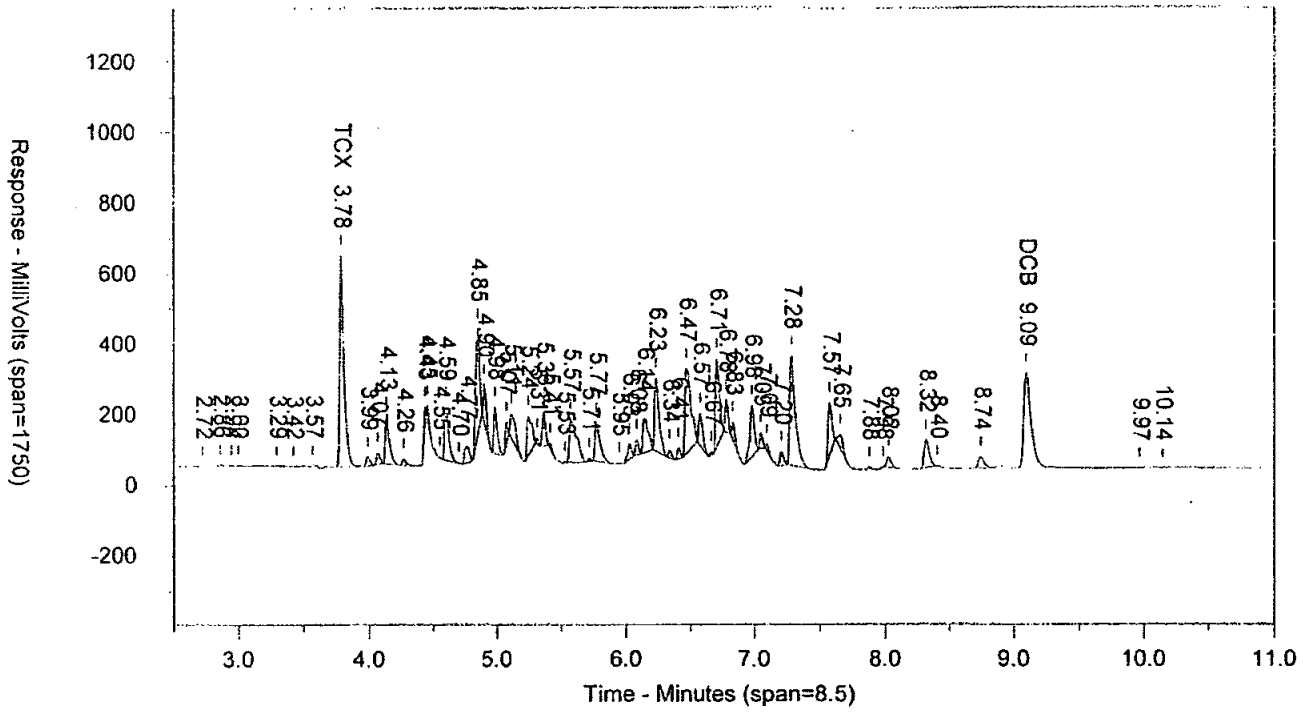

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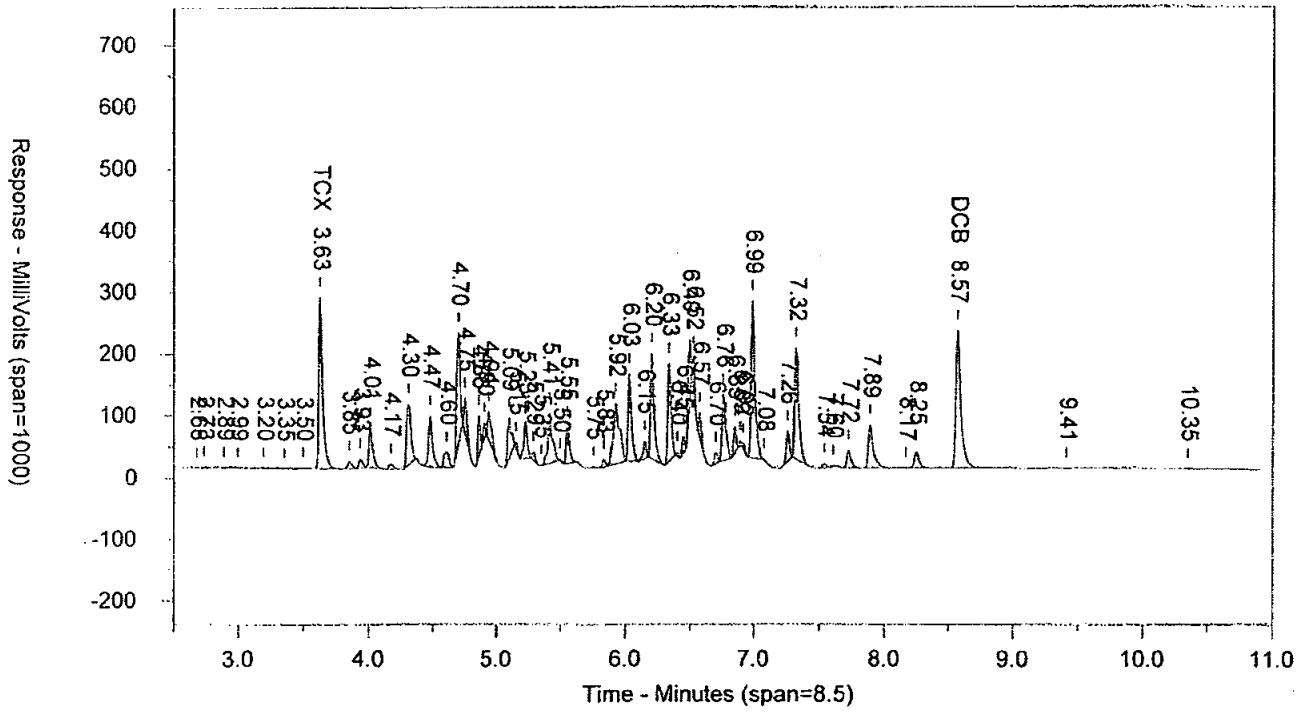


ASX73 1465

LANCASTER LABORATORIES

Sample Number: AR4811224A AAAR481AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 2:43:57 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.011.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.707		807	2682
1.991		370	1130
2.095		619	3982
2.725		199	526
2.862		153	266
2.945		2580	8015
3.283		948	5181
3.435		256	582
3.49		183	600
3.57		12436	40914
3.787	TCX	38834	72872
4.064		615	2016
4.137		913	2839
4.268		214	388
4.435		5166	16099
4.598		3684	7342
4.753		876	2221
4.85		10568	24038
4.904		2699	4233
4.985		4734	8248
5.077		6566	8387
5.115		5856	16062
5.247		11452	27564
5.317		1671	1744
5.365		7666	13039
5.417		1398	1944
5.527		960	1266
5.599		6554	15033
5.628		6892	9743
5.716		303	336
5.768		12760	47176
5.946		2342	4095
6.01		2603	3586
6.047		1032	997
6.085		5627	10103
6.188		2436	5786
6.34		3486	5874
6.434		283	475
6.575		4107	10744
6.709		736	1912
7.577		83	158
8.225		434	5103
9.097	DCB	19234	117165

ASX73 1466

LANCASTER LABORATORIES

Sample Number: AR4811224A AAAR481AA ICAL 1220699999
Injected On: 7/25/2012 2:43:57 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.011.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

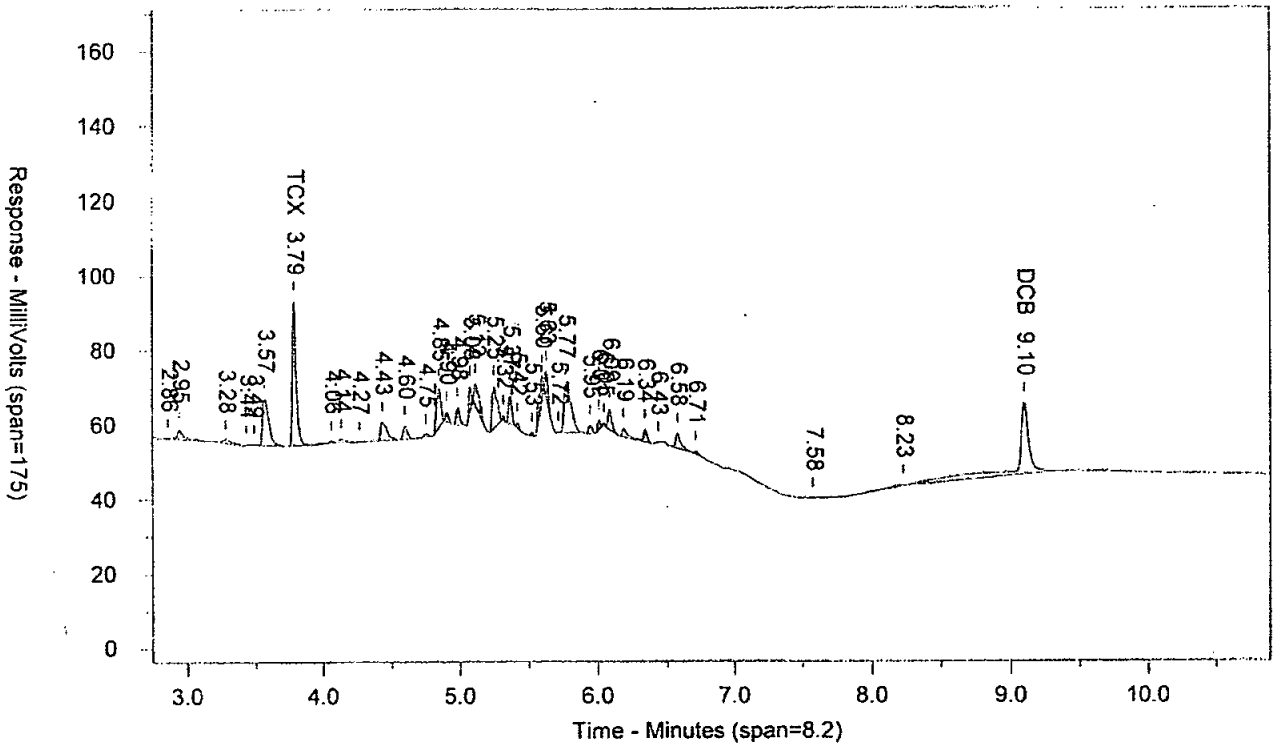
Injection Volume: 1 ul
Analyst: 2855

RT B	Compound B	Height B	Area A
1.533		6355	33471
2.678		569	1546
2.827		199	659
3.003		450	3804
3.354		579	2459
3.499		5456	16443
3.628	TCX	14134	28622
3.928		189	355
4.009		322	634
4.306		2925	8484
4.476		1695	3863
4.589		862	2080
4.698		5440	11383
4.749		1131	2039
4.861		1705	2373
4.907		2698	3461
4.94		3401	7439
5.097		5666	11604
5.228		4024	7486
5.291		1200	1954
5.416		5220	8989
5.45		3014	4128
5.553		1877	2801
5.607		2585	4142
5.753		1509	2871
5.832		1900	2907
5.875		479	490
5.912		3378	7133
6.038		1835	4603
6.123		2691	5402
6.239		355	1355
6.336		439	1040
6.401		2165	4201
6.497		538	1272
6.646		177	610
6.983		269	871
7.323		144	303
7.541		219	1172
8.179		185	9577
8.578	DCB	14975	40255
9.442		123	493
10.361		211	2025

ASX73 1467

AR4811224A AAAR481AA ICAL 1220699999

\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1p7207.011.RAW



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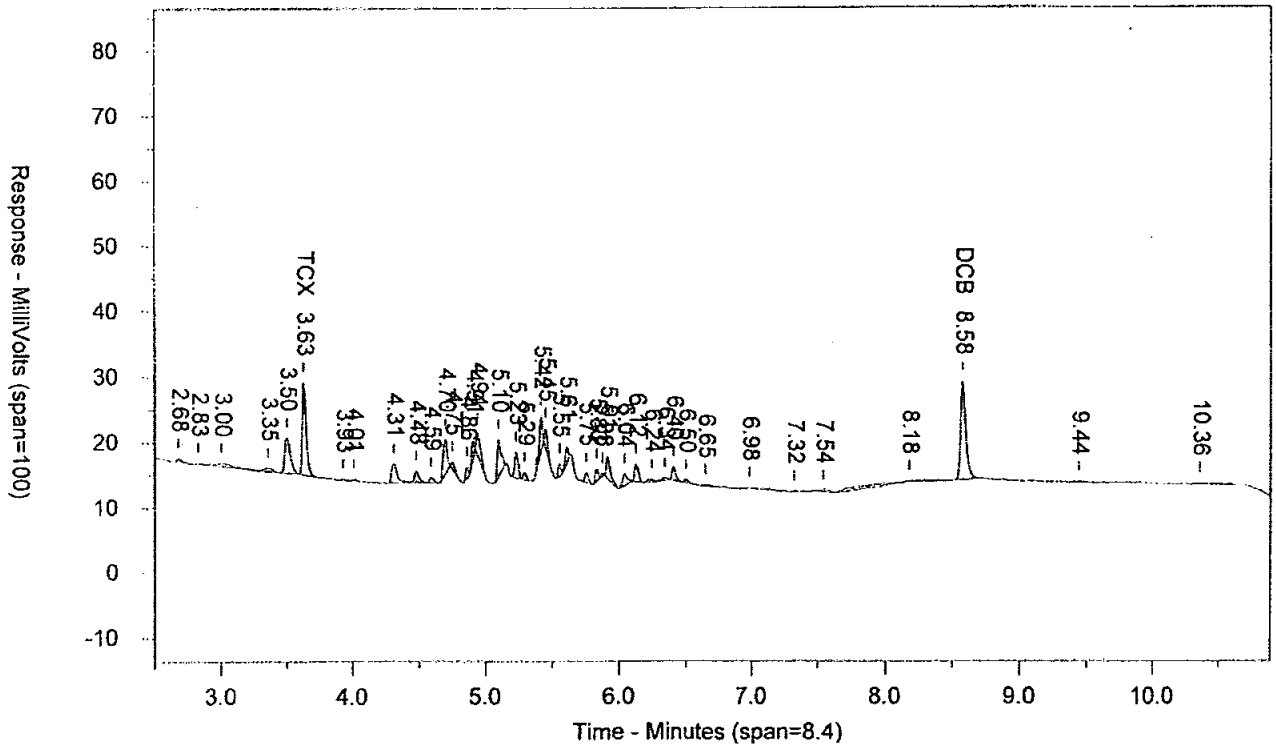

ASX73 1468

LANCASTER LABORATORIES

Sample Number: AR4811224A AAAR481AA ICAL 1220699999
Injected On: 7/25/2012 2:43:57 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1
Dilution Factor: 1

Threshold: 3
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
3.787	38834	4.535	TCX	3.628	14134	3.934	TCX
9.097	19234	4.78	DCB	8.578	14975	4.547	DCB

Files:
Area File: 1p7207.011.RAW
Area File: 1p7207B.011.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 2:54:24 PM
File Reported On: 7/25/2012 at 3:16:16 PM

ASX73 1463

AR4811224A AAAR481AA ICAL 1220699999

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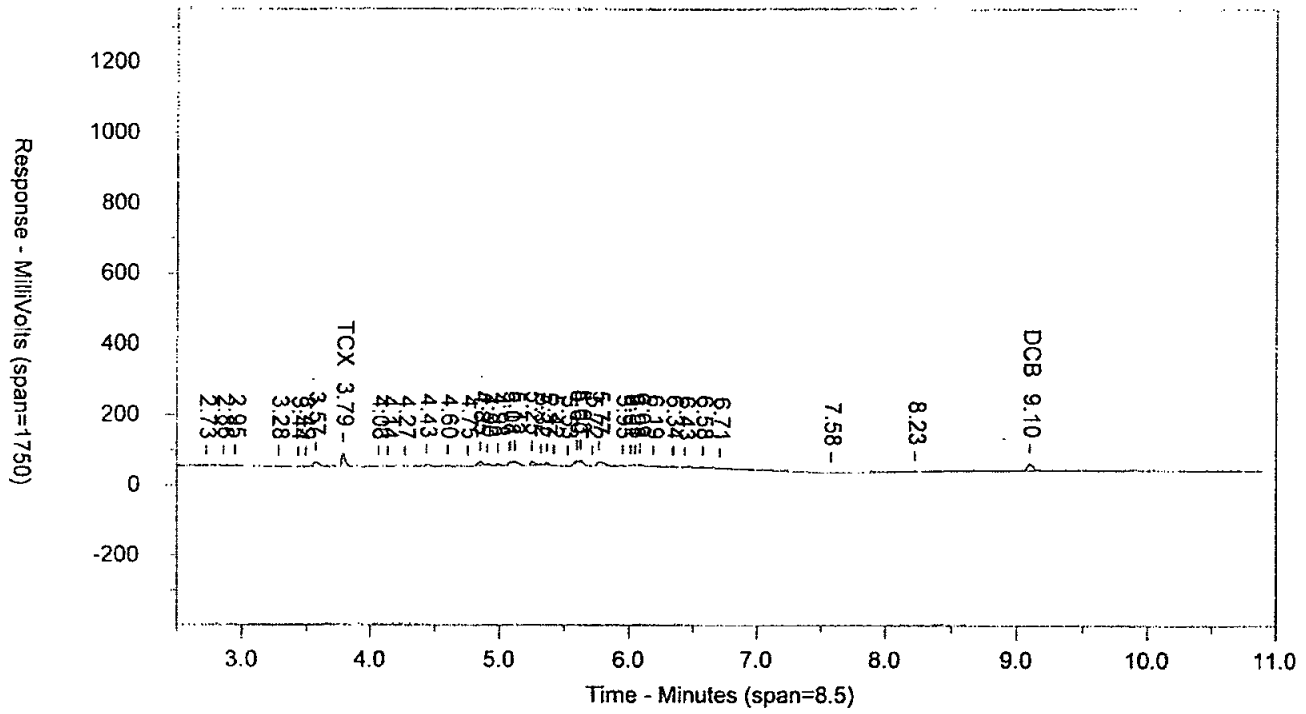

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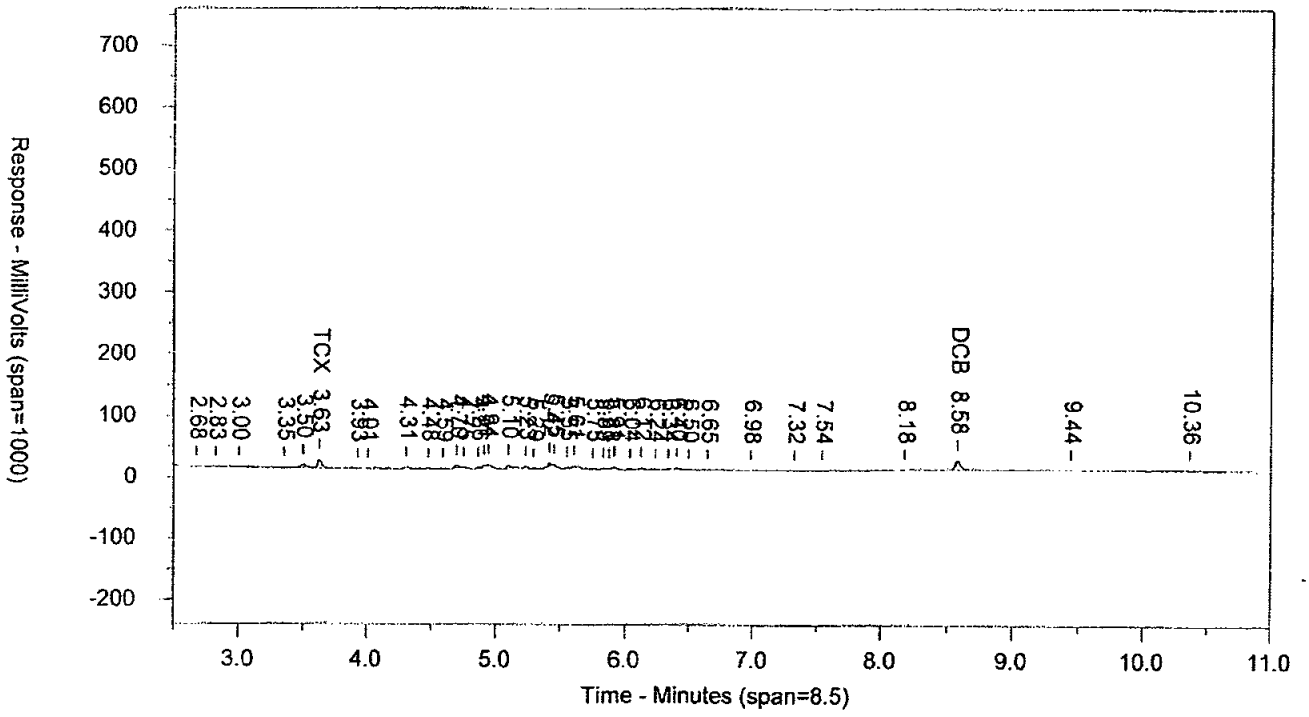

ASX73 1479

LANCASTER LABORATORIES

Sample Number: AR4821224A AAAR482AA ICAL 1220699999
Injected On: 7/25/2012 2:58:42 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.012.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

Injection Volume: 1 ul
Analyst: 2855

RT A	Compound A	Height A	Area A
1.712		895	3067
1.995		367	980
2.096		614	3906
2.642		584	1204
2.861		872	1420
2.946		2652	7994
3.281		1035	5627
3.43		313	782
3.484		141	418
3.57		6956	22647
3.683		1076	4482
3.787	TCX	170208	346714
4.063		2434	4883
4.136		1600	3748
4.265		436	1082
4.376		122	195
4.435		9913	30412
4.598		7088	14257
4.753		1497	3389
4.85		20416	46760
4.903		5059	7832
4.985		8912	15269
5.077		12183	15591
5.115		10766	30041
5.247		21021	51131
5.317		3152	3283
5.365		14566	24601
5.417		2876	4028
5.528		1365	1705
5.598		12289	28103
5.628		12452	17516
5.715		654	735
5.768		23404	87338
5.947		4503	7971
6.011		5007	6845
6.047		1943	1868
6.085		10484	18949
6.188		4583	10890
6.293		736	970
6.341		7487	14032
6.436		452	707
6.482		1049	2060
6.576		7436	17392
6.711		1642	7750
6.959		1093	18822
7.58		113	214
7.882		314	596
8.214		3012	30487
8.749		876	45572
9.098	DCB	79015	285744

ASX73 1471

LANCASTER LABORATORIES

Sample Number: AR4821224A AAAR482AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 2:58:42 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.012.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.534		6776	35693
2.574		254	573
2.68		542	948
2.826		157	360
2.998		402	3521
3.354		726	3216
3.499		2753	7976
3.629	TCX	71990	141472
3.928		842	1629
4.011		630	1272
4.167		228	500
4.307		5502	15703
4.477		3228	7139
4.59		1161	2883
4.698		10475	22200
4.749		1879	3360
4.862		3305	4529
4.907		4985	6200
4.94		6335	14057
5.097		10539	21543
5.229		7675	14265
5.291		2155	3433
5.417		9616	15876
5.45		5773	7797
5.553		3557	5296
5.608		4827	7784
5.642		2138	2738
5.754		2974	5680
5.833		3624	5585
5.875		962	966
5.913		6349	12363
6.037		3253	7914
6.123		5042	10185
6.241		577	2171
6.337		745	1538
6.402		4082	7224
6.498		1085	2890
6.794		261	596
6.986		352	1196
7.323		191	378
7.541		1140	5896
8.25		551	37836
8.576	DCB	63893	183903
9.434		134	659
10.36		129	590

ASX73 1472

AR4821224A AAAR482AA ICAL 1220699999

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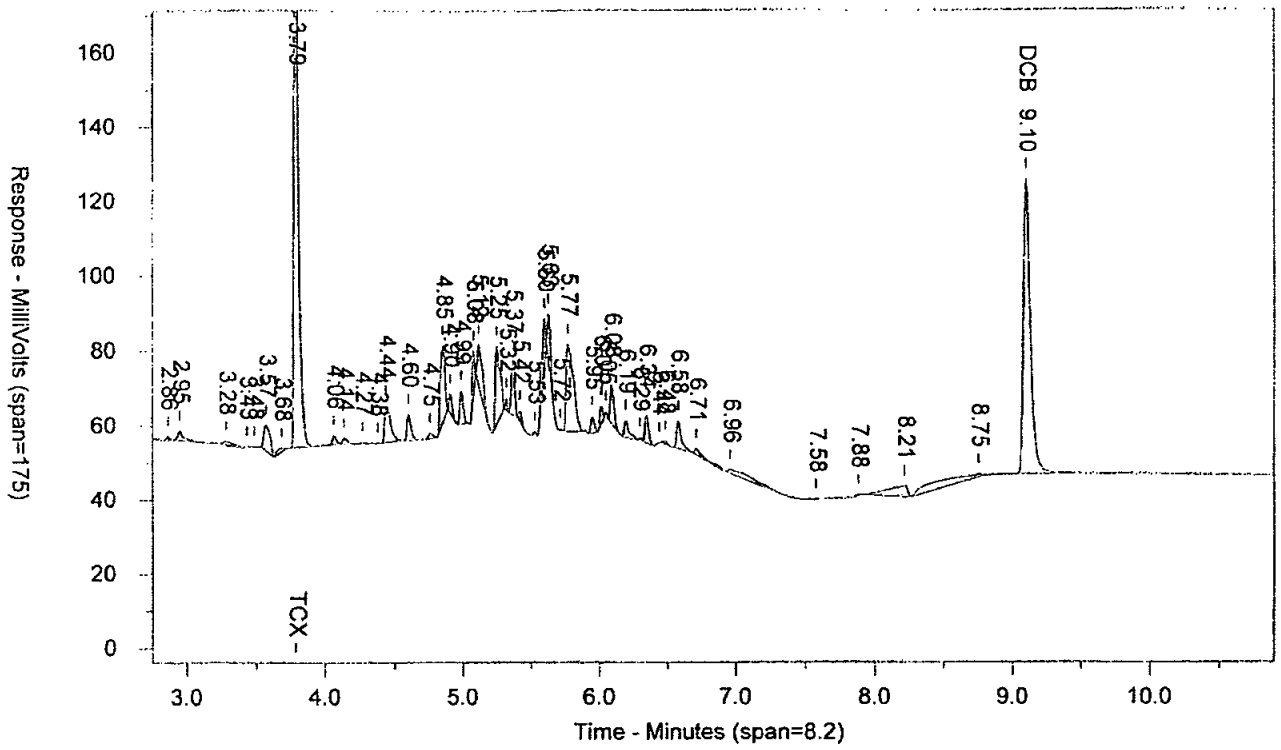

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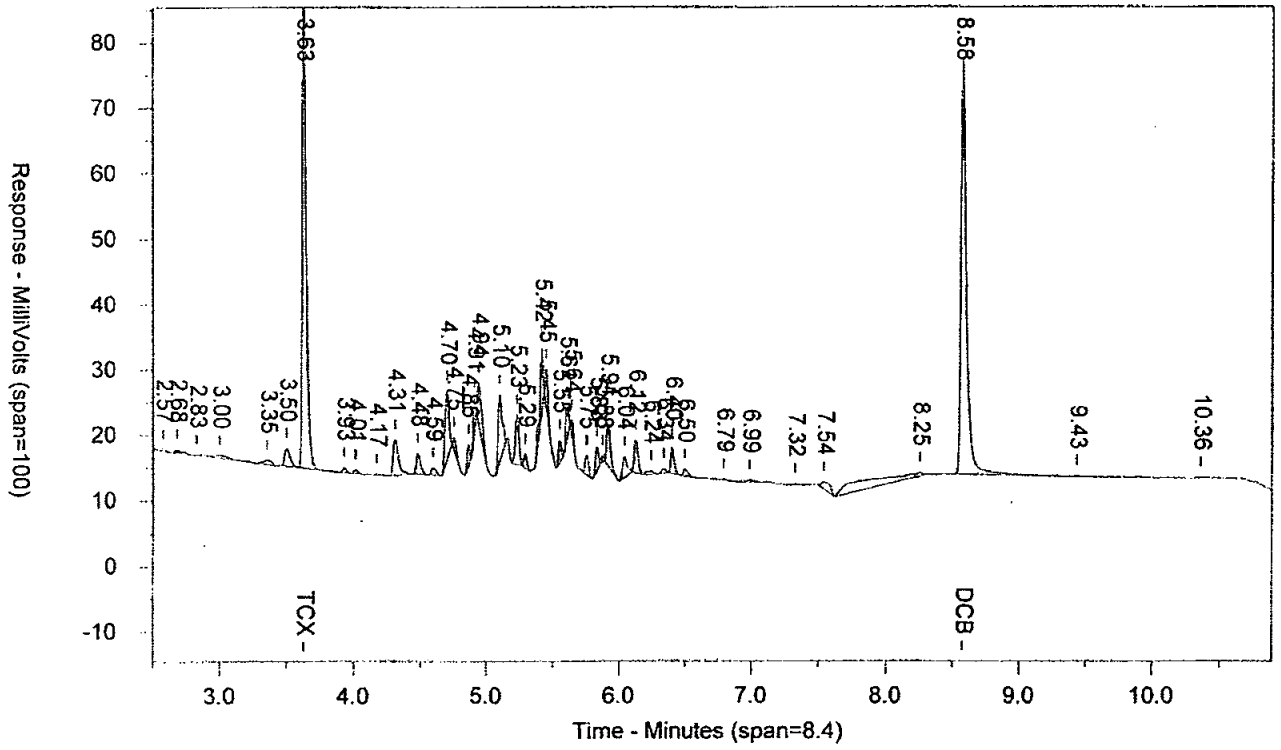

ASX73 1473

LANCASTER LABORATORIES

Sample Number: AR4821224A AAAR482AA ICAL 1220699999
Injected On: 7/25/2012 2:58:42 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1
Dilution Factor: 1

Threshold: 3
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
3.787	170208	19.878	TCX	3.629	71990	20.037	TCX
9.098	79015	19.637	DCB	8.576	63893	19.399	DCB

Files:
Area File: 1p7207.012.RAW
Area File: 1p7207B.012.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 3:09:10 PM
File Reported On: 7/25/2012 at 3:16:22 PM

AR4821224A AAAR482AA ICAL 1220699999

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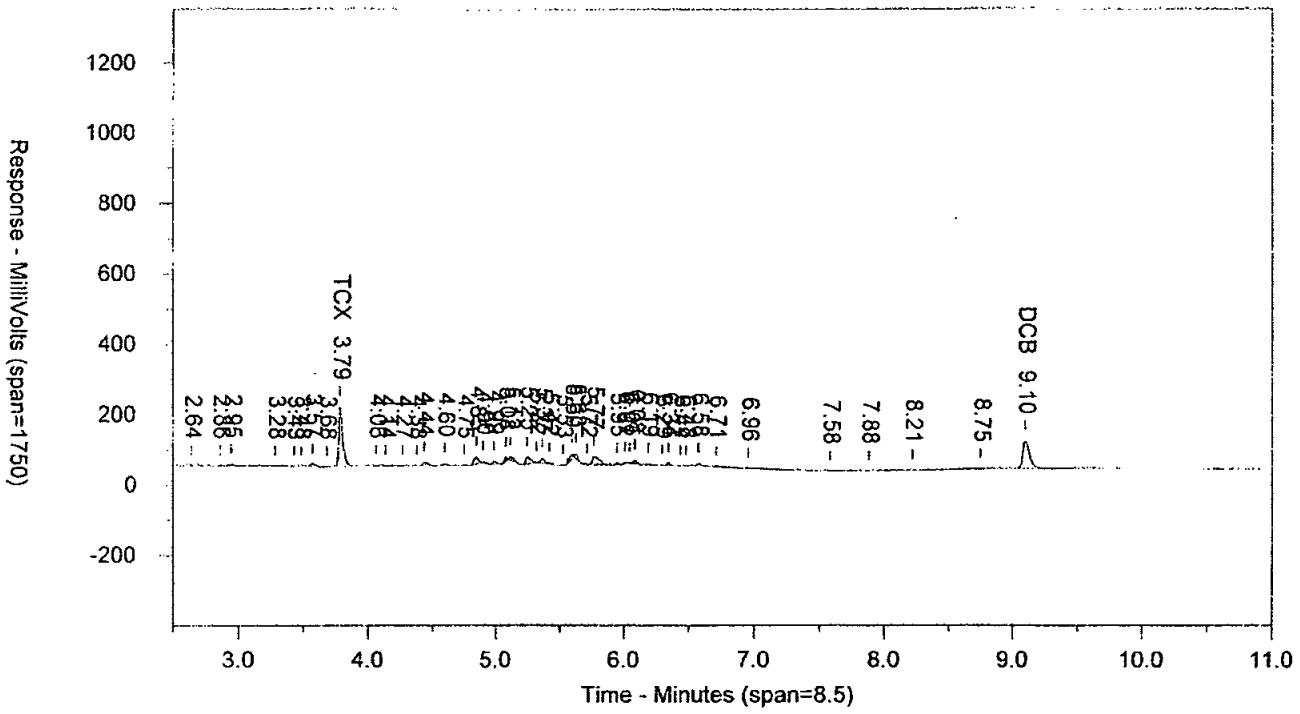

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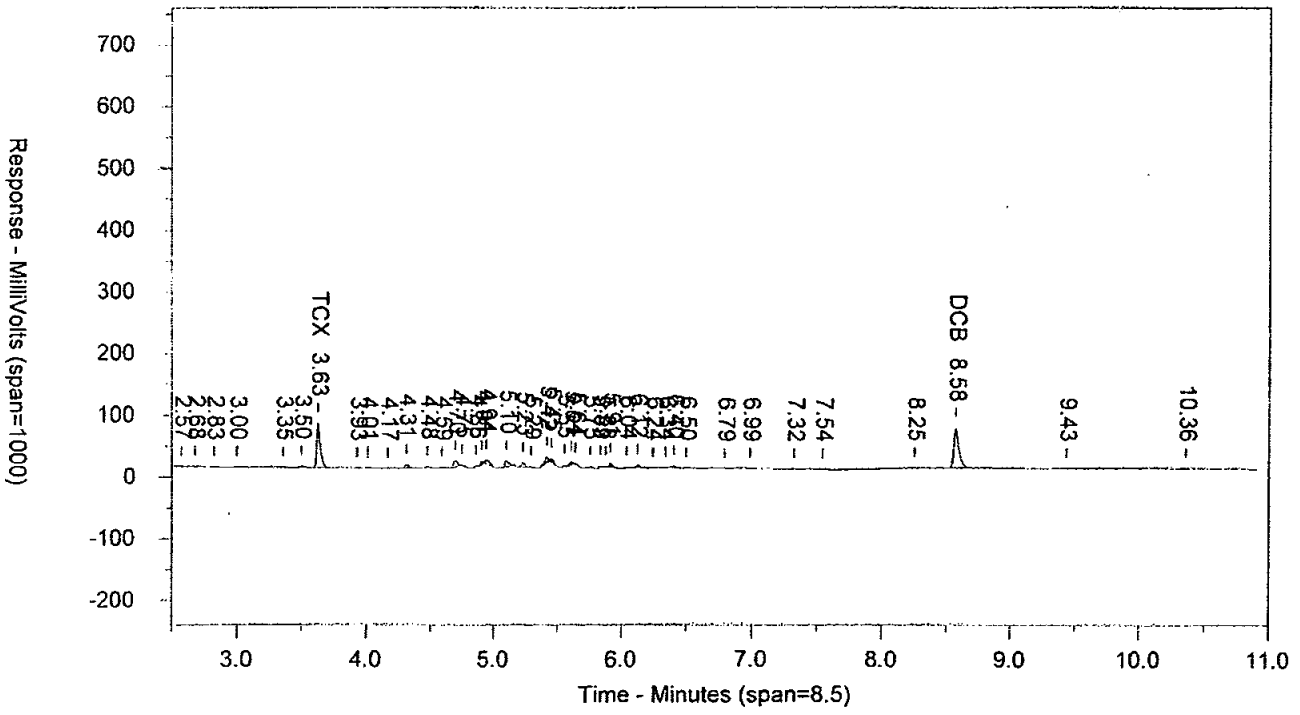

ASX79 1475

LANCASTER LABORATORIES

Sample Number: AR4831224A AAAR483AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 3:13:25 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.013.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.707		813	2676
1.997		341	932
2.094		520	3318
2.733		129	210
2.86		1837	3233
2.946		2602	4178
3.28		621	2816
3.425		130	335
3.57		12576	40849
3.786	TCX	320481	684696
3.995		336	734
4.062		4797	8116
4.135		3086	6570
4.264		1030	3103
4.434		19863	64401
4.597		14243	29054
4.752		3024	6194
4.849		40171	91855
4.902		9542	15015
4.984		17864	30908
5.076		22578	29227
5.114		20895	60213
5.246		40595	99726
5.316		6207	6436
5.365		28309	47906
5.416		5765	7981
5.529		2512	3107
5.598		23973	55721
5.628		25144	36141
5.713		1266	1415
5.767		45454	172846
5.946		9218	16397
6.01		9962	13854
6.046		3863	3723
6.085		20801	38485
6.188		9314	21870
6.291		1525	1974
6.342		15366	51096
6.482		1614	3204
6.576		14972	34827
6.711		3264	8455
6.958		1129	6071
7.578		301	493
7.688		1229	9013
7.878		1281	3494
8.75		1340	58154
9.096	DCB	147464	559073
9.974		133	380

ASX73 1476

LANCASTER LABORATORIES

Sample Number: AR4831224A AAAR483AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 3:13:25 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.013.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.539		7793	43836
2.679		654	1148
2.733		455	843
2.889		252	510
3.008		392	2985
3.354		354	1172
3.499		5525	16645
3.627	TCX	144325	279717
3.928		1732	3390
4.01		1343	2737
4.168		452	937
4.305		10974	30653
4.476		6713	14834
4.589		2535	6231
4.697		21600	44703
4.748		3819	6403
4.861		6742	9178
4.906		9830	11526
4.939		12423	27792
5.096		21423	42665
5.155		2876	3425
5.228		15607	28861
5.29		4279	6599
5.415		20563	33763
5.45		12214	16342
5.552		7173	10392
5.607		10241	15943
5.641		4596	5610
5.754		5646	10850
5.832		7390	11109
5.91		16853	47110
6.037		6354	15275
6.122		9998	20338
6.204		567	727
6.336		1516	2942
6.402		8420	17059
6.497		2204	5985
6.647		334	1268
6.795		581	1035
6.988		735	2992
7.332		555	2260
7.539		823	2136
8.249		867	9820
8.574	DCB	119777	345470
9.421		164	761
10.353		137	621

AR4831224A AAAR483AA ICAL 1220699999

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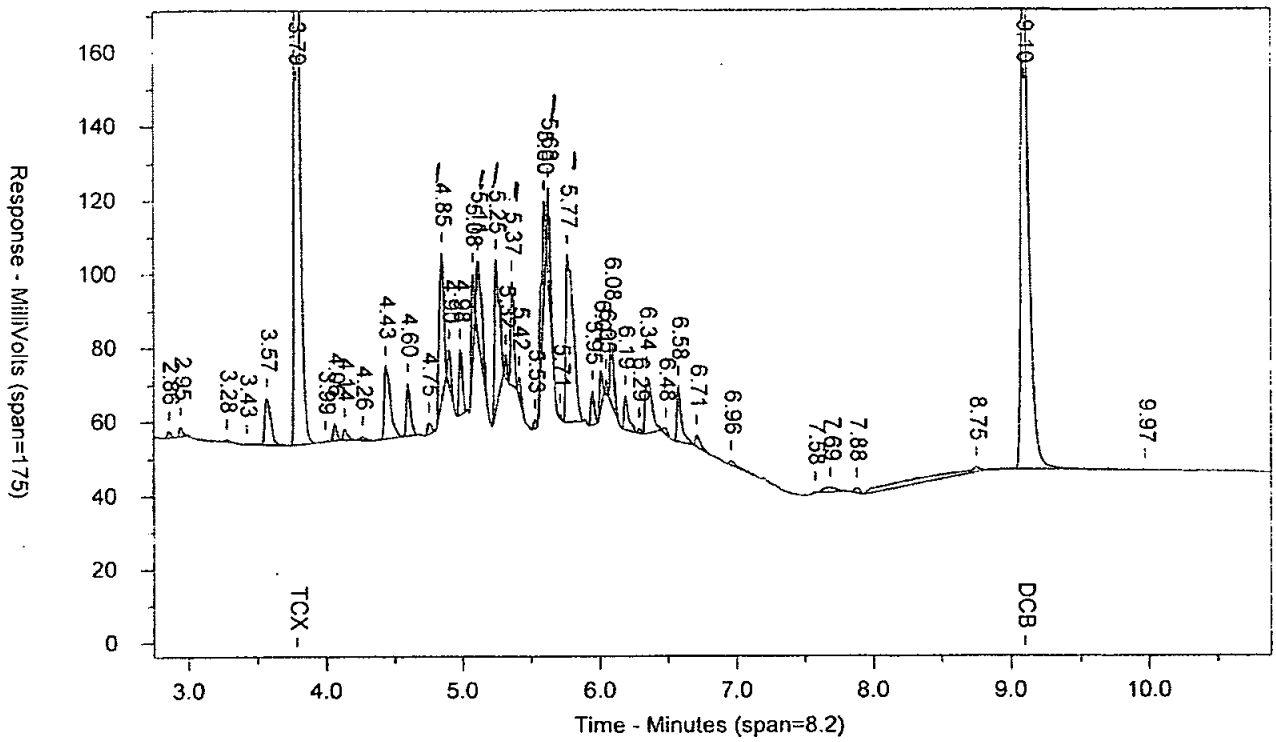

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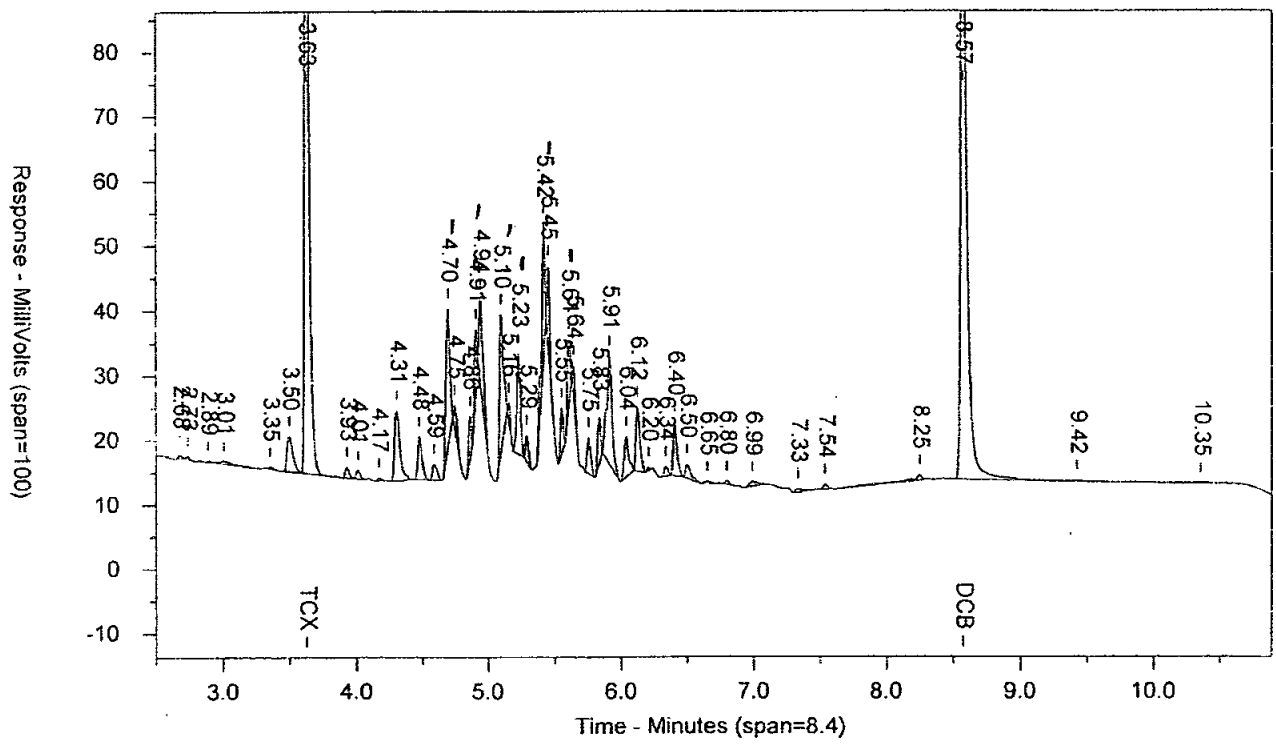

ASX73 1478

LANCASTER LABORATORIES

Sample Number: AR4831224A AAAR483AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 3:13:25 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.786	320481	37.428	TCX	3.627	144325	40.17	TCX
9.096	147464	36.649	DCB	8.574	119777	36.366	DCB

Files:
Area File: 1p7207.013.RAW
Area File: 1p7207B.013.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 3:23:53 PM
File Reported On: 7/25/2012 at 3:24:24 PM

AR4831224A AAAR483AA ICAL 1220699999

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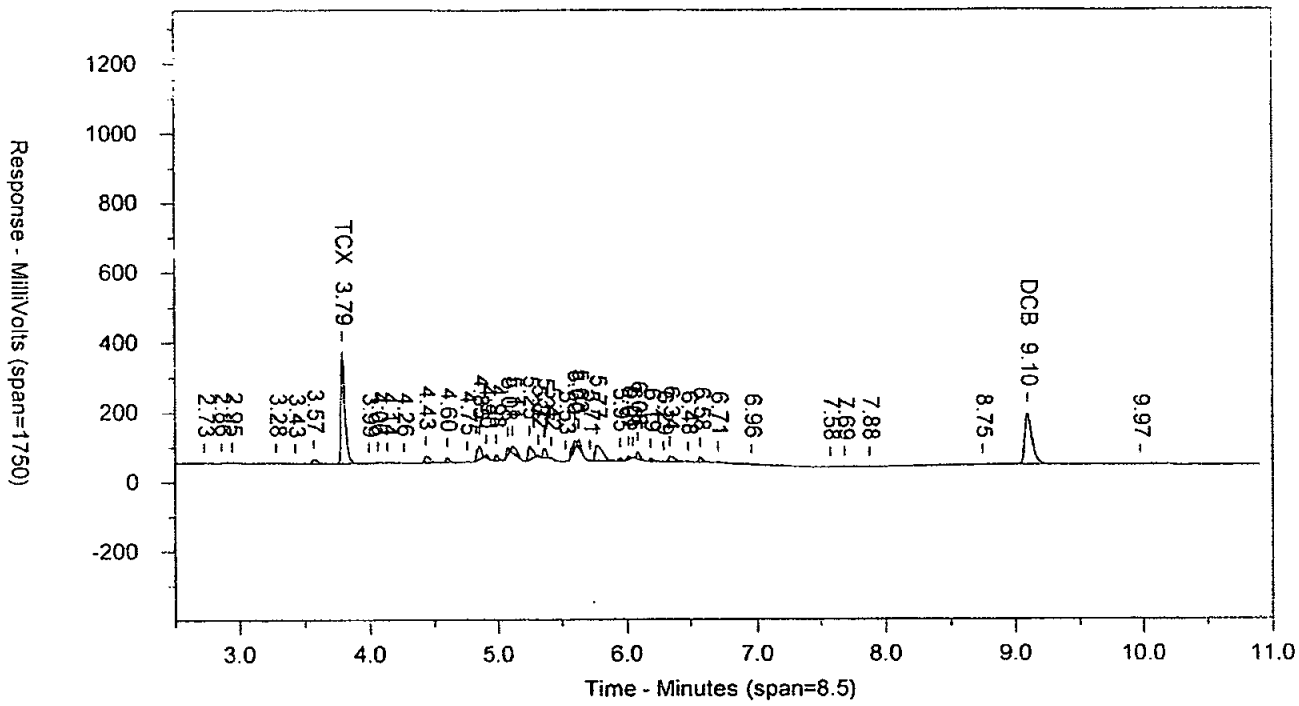

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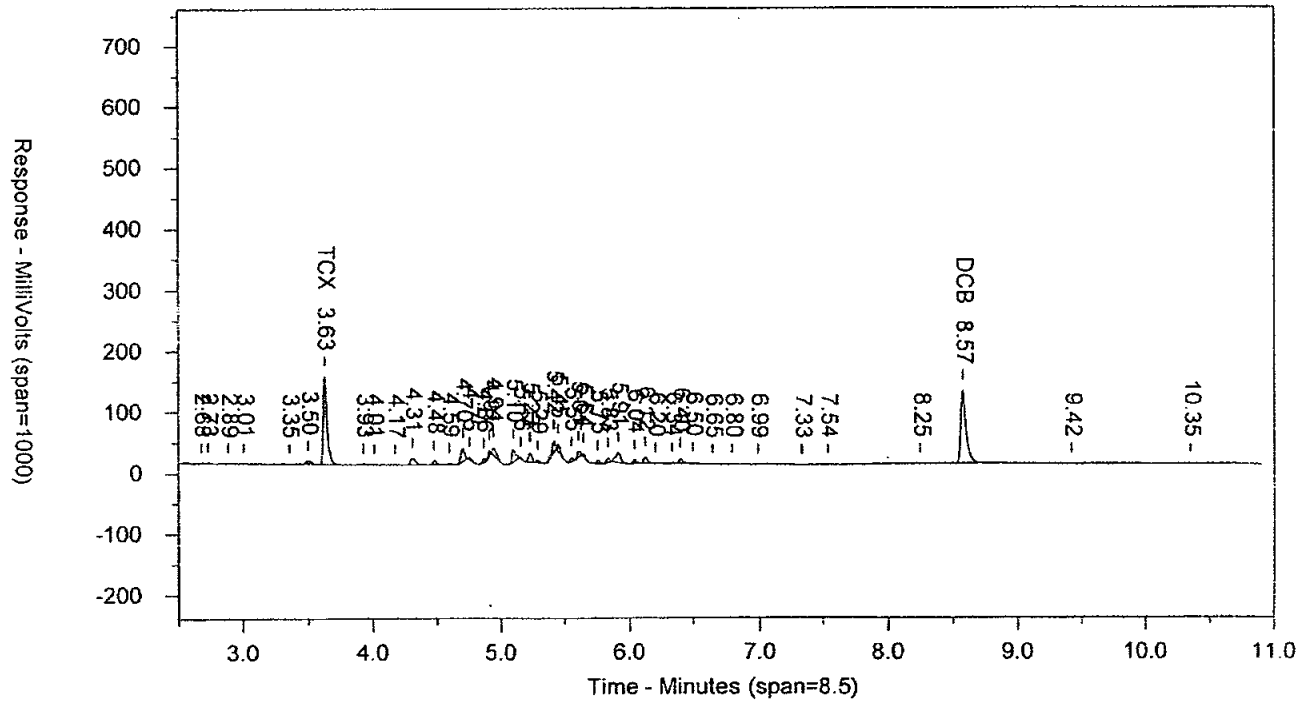

ASX73 1468

LANCASTER LABORATORIES

Sample Number: AR4841224A AAAR484AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 3:28:11 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.014.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.709		918	2737
1.992		267	844
2.067		482	3086
2.638		199	461
2.861		2928	5232
2.946		2099	3345
2.996		844	1279
3.288		761	4051
3.486		275	1753
3.57		7204	21359
3.786	TCX	493290	1080073
3.991		923	1822
4.063		8066	13847
4.135		8141	17011
4.265		2686	6451
4.434		48723	160024
4.597		36212	80882
4.752		7951	18737
4.849		99828	233754
4.901		22382	34052
4.985		43423	76083
5.037		1877	1411
5.076		55263	68815
5.114		48604	144729
5.246		97126	239631
5.316		14446	14574
5.365		67083	114362
5.416		14100	19423
5.53		5544	6871
5.597		58974	128722
5.626		62328	93880
5.712		2837	3102
5.766		109843	432661
5.89		1969	2249
5.946		22559	40847
6.011		23988	32905
6.046		9512	8981
6.084		50167	95646
6.187		23158	55258
6.292		3961	5092
6.341		40650	85821
6.435		1677	1701
6.484		4742	10628
6.576		39363	89549
6.712		8836	24280
6.96		2947	12856
7.204		1265	2570
7.279		1014	1969
7.577		725	1364
7.657		140	360
7.878		1429	3252
8.749		1839	31252
9.095	DCB	225999	886833

RT A	Compound A	Height A	Area A
9.97		237	843
10.166		133	744

ASX73 1482

LANCASTER LABORATORIES

Sample Number: AR4841224A AAAR484AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 3:28:11 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.014.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.539		7632	46011
2.679		517	873
2.735		843	1750
2.826		130	267
2.89		311	612
3.01		396	3048
3.355		437	1995
3.499		3269	9499
3.627	TCX	226066	439575
3.848		383	731
3.929		2930	5785
4.011		3594	7524
4.169		1222	2737
4.305		27077	74529
4.476		17333	37786
4.591		4205	10973
4.697		55668	111835
4.748		9552	15006
4.862		17976	23476
4.905		24259	27525
4.938		31355	67792
5.096		53694	103211
5.155		8047	9549
5.228		40457	72657
5.289		10956	16531
5.387		7393	9355
5.414		46762	52539
5.449		33035	44582
5.552		17920	25209
5.607		26525	41478
5.642		13374	16438
5.753		14220	26721
5.832		19389	27945
5.875		5248	5140
5.911		31738	54819
6.037		16075	37885
6.122		25412	49885
6.203		1492	1932
6.238		1195	1691
6.336		3839	7137
6.403		23283	46017
6.498		5687	14222
6.65		167	509
6.795		1533	2849
6.985		1510	4751
7.259		159	262
7.322		834	1920
7.54		1279	3080
7.646		127	235
7.892		234	461
8.251		1372	5006
8.432		69	269
8.574	DCB	184339	523636
9.409		231	977

10.357	122	575

ASX73 1484

AR4841224A AAAR484AA ICAL 1220699999

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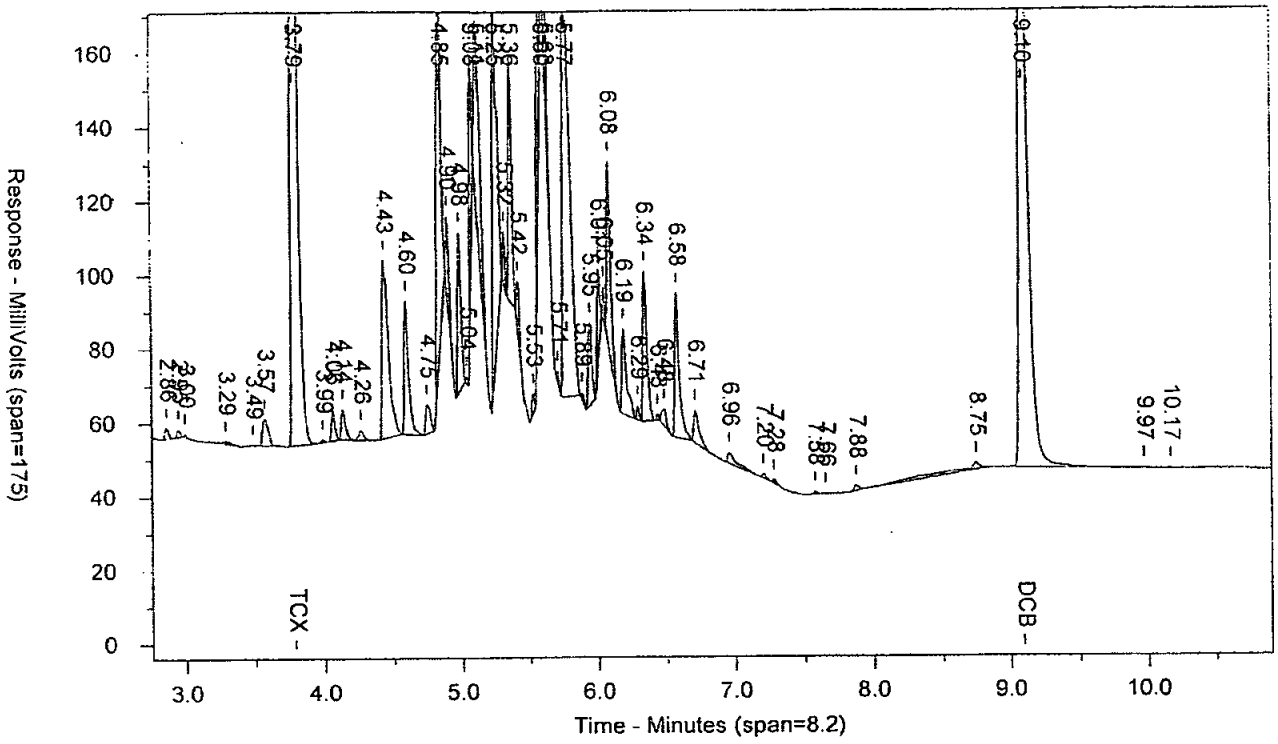

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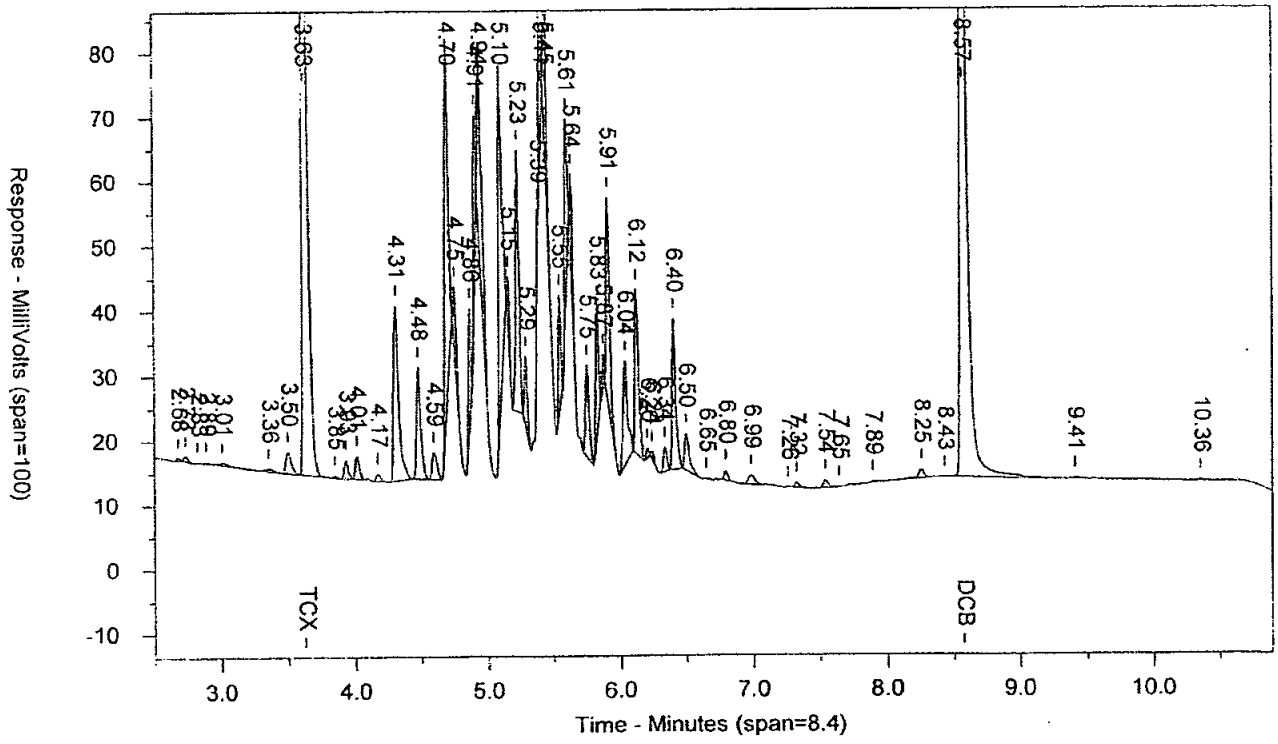

ASX73 1485

LANCASTER LABORATORIES

Sample Number: AR4841224A AAAR484AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 3:28:11 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.786	493290	57.61	TCX	3.627	226066	62.921	TCX
9.095	225999	56.166	DCB	8.574	184339	55.968	DCB

Files:
Area File: 1p7207.014.RAW
Area File: 1p7207B.014.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 3:38:38 PM
File Reported On: 7/25/2012 at 3:39:10 PM

AR4841224A AAAR484AA ICAL 1220699999

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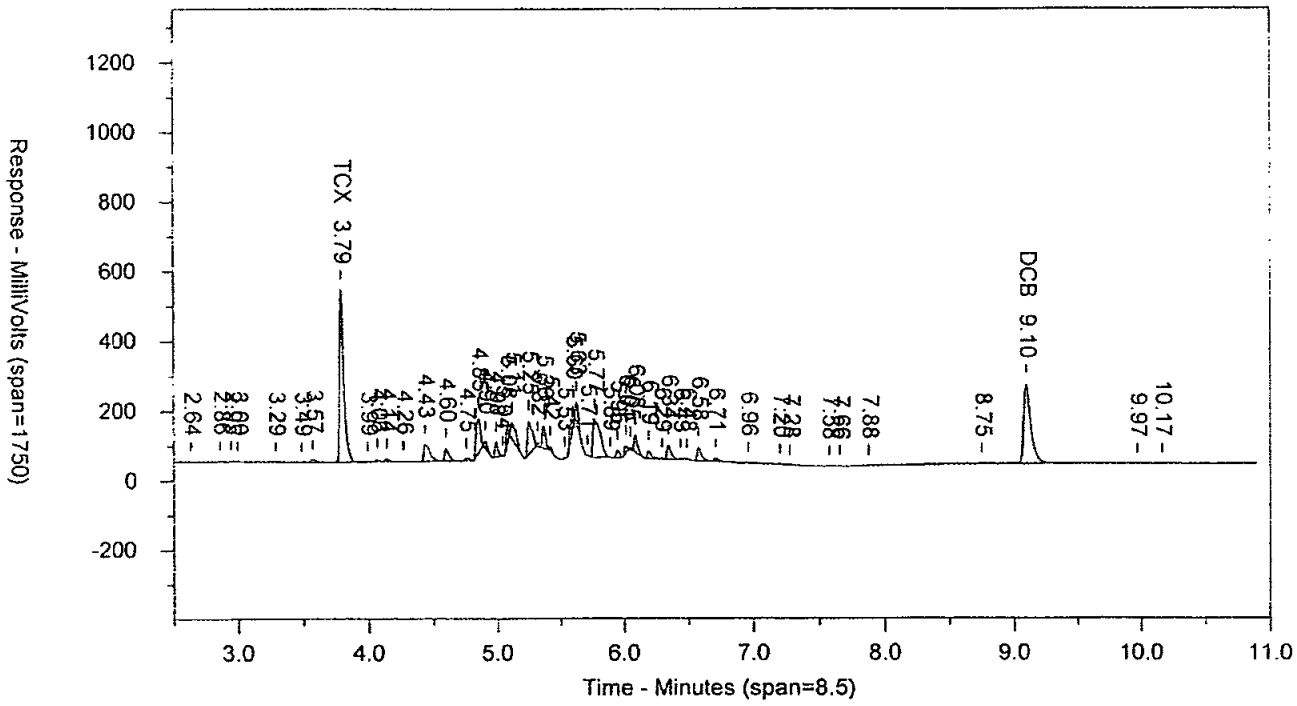

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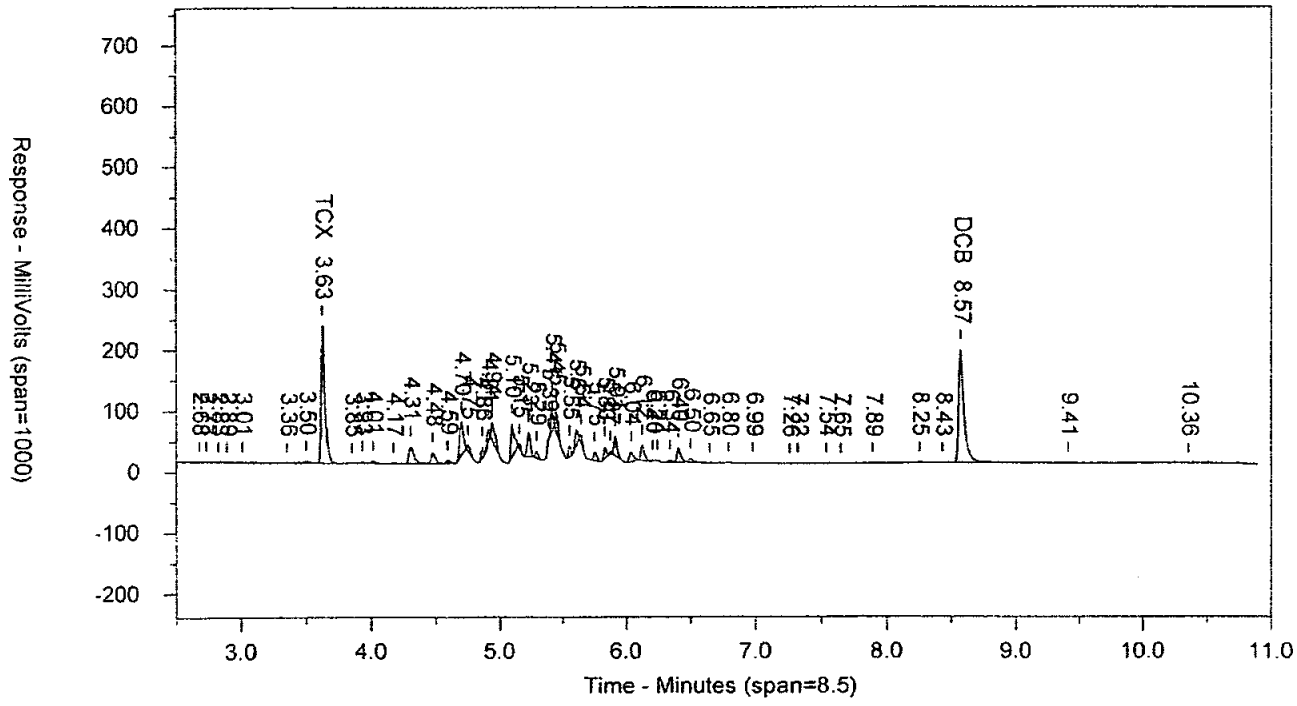

ASX73 1487

LANCASTER LABORATORIES

Sample Number: AR4851224A AAAR485AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 3:42:55 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.015.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.724		1168	6566
1.994		270	775
2.068		474	3166
2.641		1419	2747
2.859		3579	6504
2.945		1770	2743
2.997		1067	1617
3.289		807	4075
3.418		515	1097
3.57		9062	28479
3.785	TCX	581017	1284737
3.99		1622	3160
4.063		10101	17614
4.135		14164	29835
4.265		4740	11164
4.433		81020	272238
4.597		61278	140310
4.751		13821	32737
4.848		168341	391403
4.9		37102	57763
4.984		72877	127793
5.036		3156	2464
5.075		91022	115315
5.114		80832	244914
5.244		160021	394860
5.315		24556	25084
5.364		112071	190364
5.415		22092	30693
5.529		9664	11899
5.573		31307	43998
5.597		70286	70623
5.626		104635	158209
5.766		181592	737246
5.889		3103	3692
5.946		37495	67423
6.009		39152	54444
6.045		15767	15273
6.083		85002	164949
6.187		38973	93457
6.291		6706	8519
6.341		67723	150256
6.435		2507	2393
6.484		7935	18490
6.575		69135	160387
6.712		15827	44116
6.959		5175	19820
7.204		2382	4926
7.279		2015	3935
7.576		1301	2442
7.877		1772	4191
8.323		498	1123
8.747		2204	10366
9.095	DCB	266606	1053480

ASX73 1488

RT A	Compound A	Height A	Area A
9.972		261	852

ASX73 1459

LANCASTER LABORATORIES

Sample Number: AR4851224A AAAR485AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 3:42:55 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.015.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.535		7434	40149
2.577		579	1367
2.678		420	686
2.735		1063	2259
2.828		127	256
2.89		392	796
3.007		382	3274
3.298		122	239
3.499		4077	11990
3.627	TCX	270819	525411
3.85		692	1340
3.93		3782	7516
4.011		6356	13374
4.169		2173	4883
4.305		45658	125185
4.476		30282	65184
4.592		7212	18813
4.697		95960	191237
4.748		16768	25545
4.862		32047	40045
4.905		41975	47025
4.938		53474	114312
5.096		92628	174621
5.155		14575	17187
5.228		70320	124480
5.29		18800	27712
5.386		16387	18996
5.414		81159	89027
5.449		58732	78871
5.552		30564	41737
5.607		46402	70367
5.643		26757	31095
5.754		24298	45130
5.832		34373	48439
5.875		9640	9334
5.911		55060	93316
6.037		27866	65297
6.122		43878	84530
6.204		2597	3261
6.239		2238	3217
6.336		6761	12377
6.403		42179	82003
6.498		10143	25733
6.719		286	371
6.796		3115	7088
6.986		2688	8240
7.258		313	526
7.323		1474	3418
7.54		1555	3731
7.645		159	292
7.726		225	548
7.891		443	955
8.25		1673	5394
8.574	DCB	216722	614828

ASX73 1490

9.412	254	1022
10.351	136	632

ASX73 1491

AR4851224A AAAR485AA ICAL 1220699999

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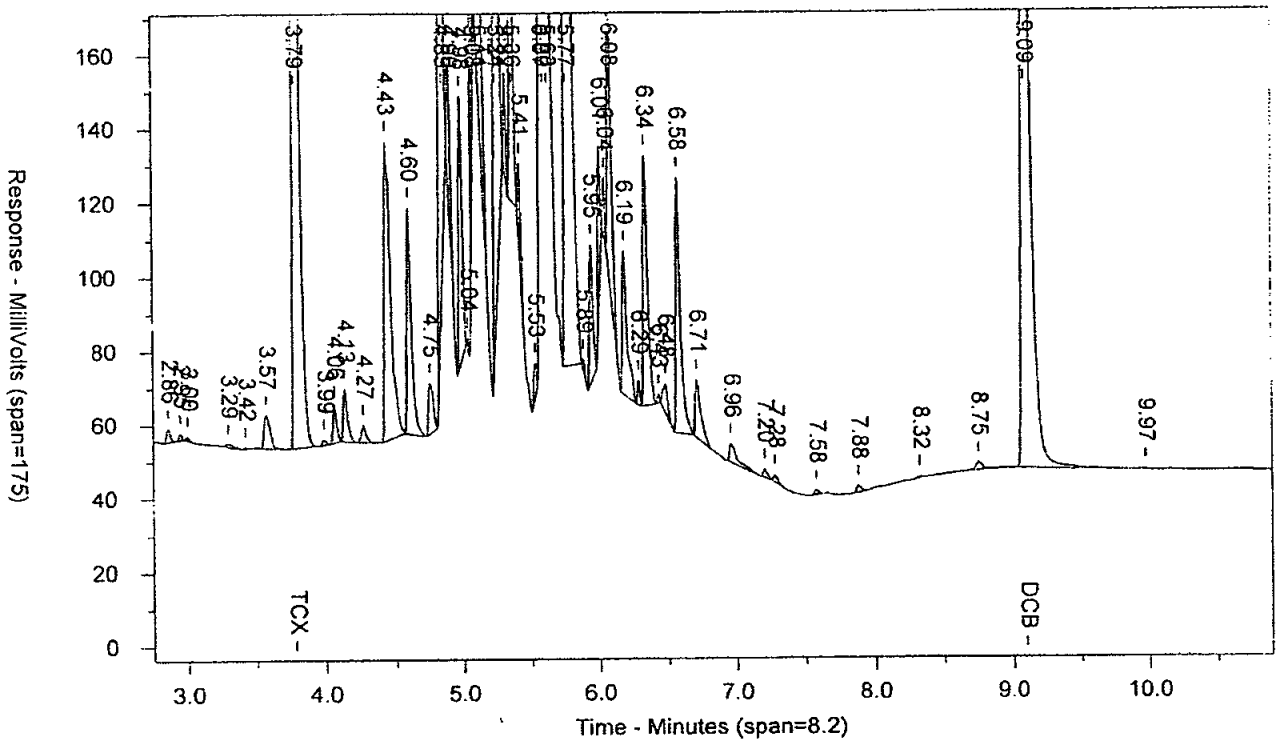

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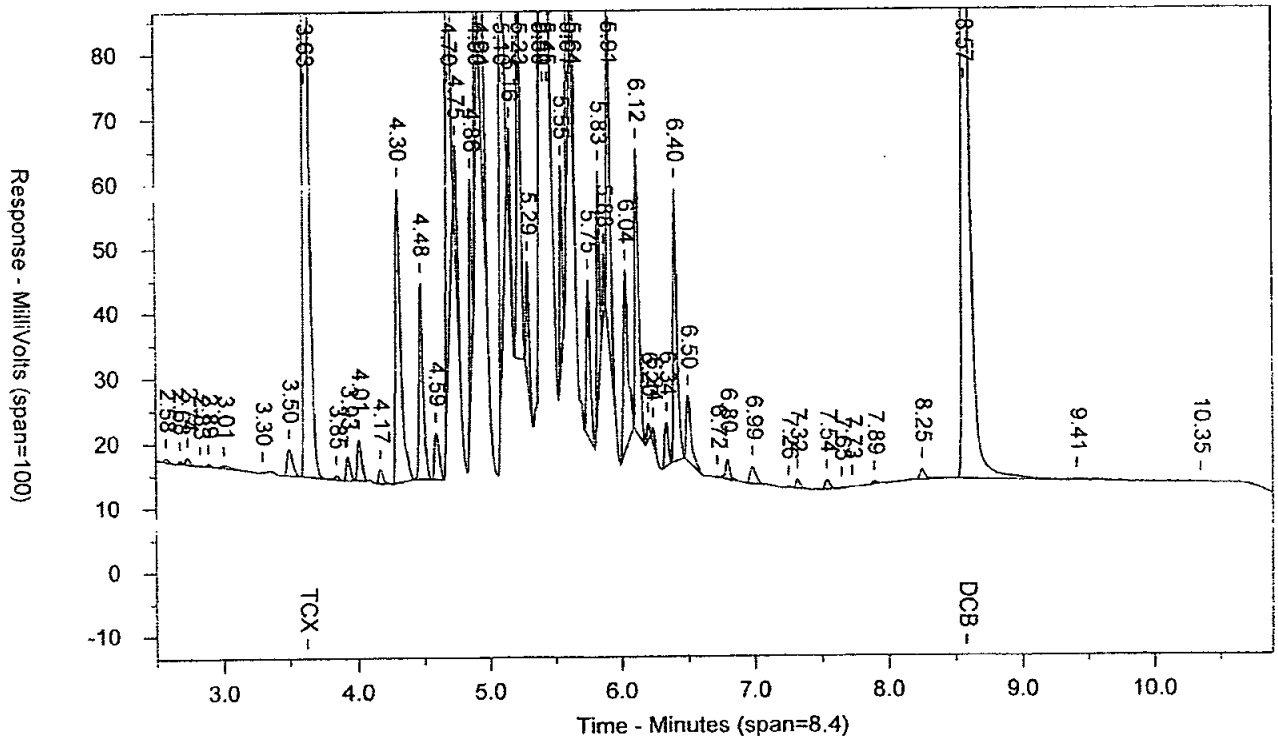

ASX73 1492

LANCASTER LABORATORIES

Sample Number: AR4851224A AAAR485AA ICAL 1220699999
Injected On: 7/25/2012 3:42:55 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1
Dilution Factor: 1

Threshold: 3
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
3.785	581017	67.856	TCX	3.627	270819	75.377	TCX
9.095	266606	66.258	DCB	8.574	216722	65.8	DCB

Files:
Area File: 1p7207.015.RAW
Area File: 1p7207B.015.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 3:53:22 PM
File Reported On: 7/25/2012 at 3:53:58 PM

ASX73 1493

AR4851224A AAAR485AA ICAL 1220699999

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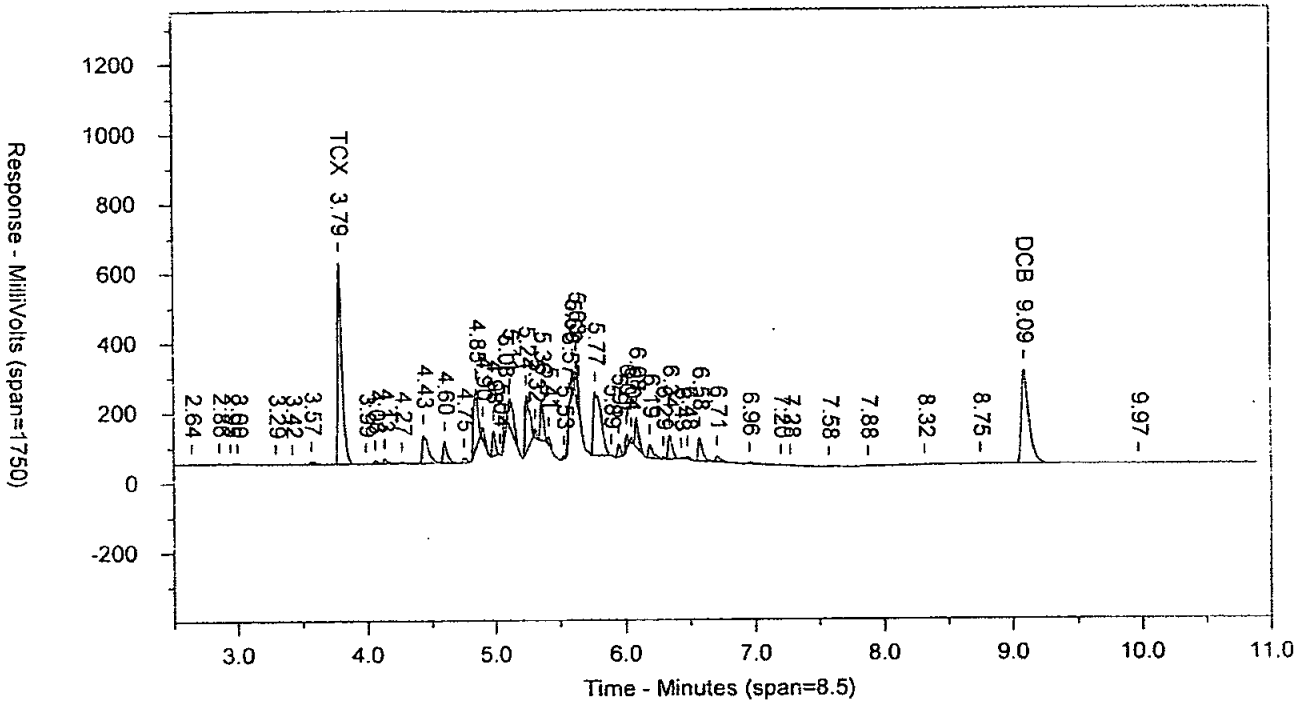

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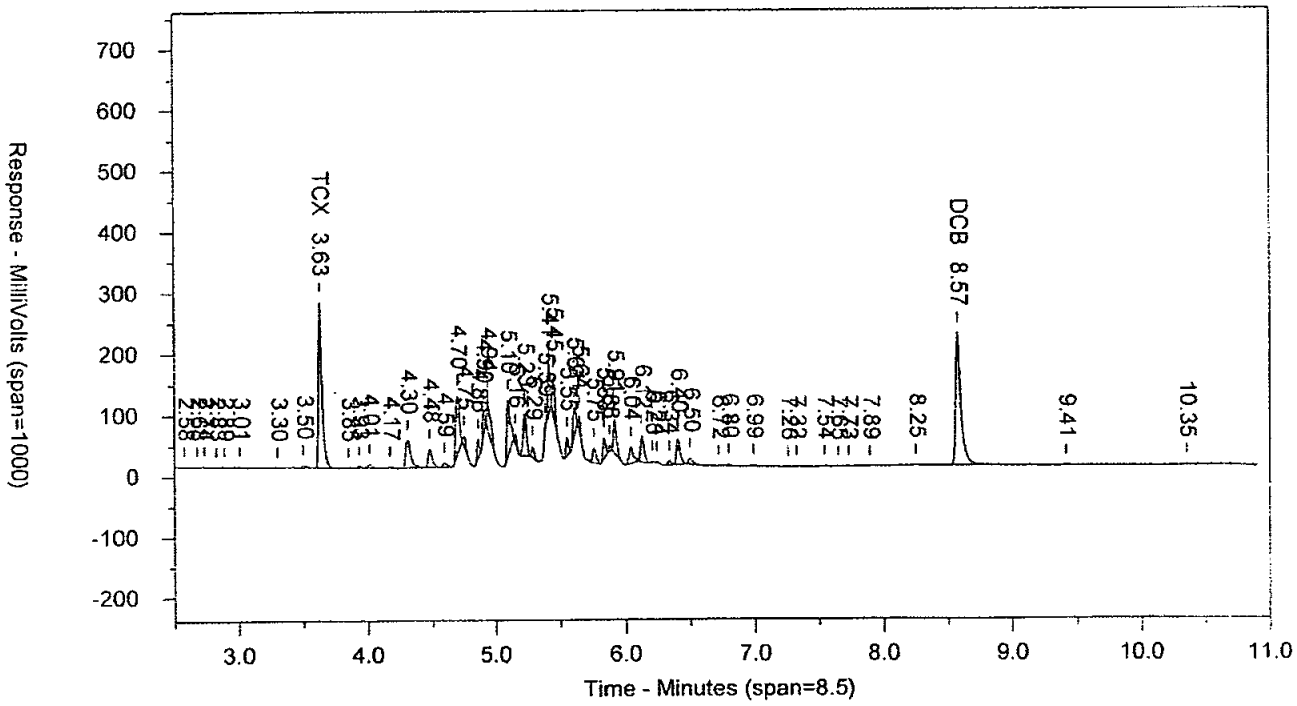

ASX73 1494

LANCASTER LABORATORIES

Sample Number: AR5411224A AAAR541AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 3:57:44 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.016.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.709		1201	3899
1.824		397	2033
2.011		442	1658
2.067		530	4558
2.244		464	1849
2.593		299	833
2.784		1786	10072
2.864		252	352
2.947		3367	9725
3.287		690	3335
3.488		244	1264
3.56		1857	2082
3.788	TCX	38599	73084
4.064		492	1482
4.142		243	1279
4.388		200	949
4.517		154	477
4.593		616	2013
4.766		245	1467
4.808		986	1389
4.962		1614	8508
5.078		8742	27931
5.247		4784	11020
5.366		1500	2660
5.522		770	1475
5.576		4687	6194
5.719		1928	2664
5.771		14650	24579
5.892		506	639
5.948		4952	8664
6.012		9174	19966
6.086		17933	34791
6.186		1730	2161
6.236		6004	14367
6.342		13110	25478
6.412		735	1207
6.485		9591	27418
6.576		9010	17150
6.713		13791	38855
6.961		3806	15714
7.206		1817	3687
7.279		1118	2068
7.58		974	2594
9.097	DCB	20236	196465
10.425		84	236

ASX73 1495

LANCASTER LABORATORIES

Sample Number: AR5411224A AAAR541AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 3:57:44 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.016.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.534		8765	46493
2.534		469	2539
2.679		782	1971
2.828		181	595
2.996		505	6694
3.36		694	4251
3.499		1313	4258
3.629	TCX	14333	29094
4.312		128	318
4.387		285	878
4.591		794	1727
4.764		604	2654
4.908		4842	14967
5.096		2341	5821
5.228		732	1189
5.293		191	308
5.417		9540	20087
5.5		1028	1402
5.554		6904	10562
5.597		1085	1068
5.707		372	474
5.755		3354	6426
5.833		5417	8709
5.914		12191	29533
6.034		5926	13554
6.124		8051	17638
6.205		5066	11108
6.337		4902	9391
6.403		3924	6055
6.499		9023	23238
6.65		262	718
6.723		269	383
6.797		2261	4980
6.985		1785	5736
7.323		981	2447
7.598		71	407
8.248		163	4326
8.577	DCB	15477	41730
9.439		146	807
10.355		135	635

ASX73 1496

AR5411224A AAAR541AA ICAL 1220699999

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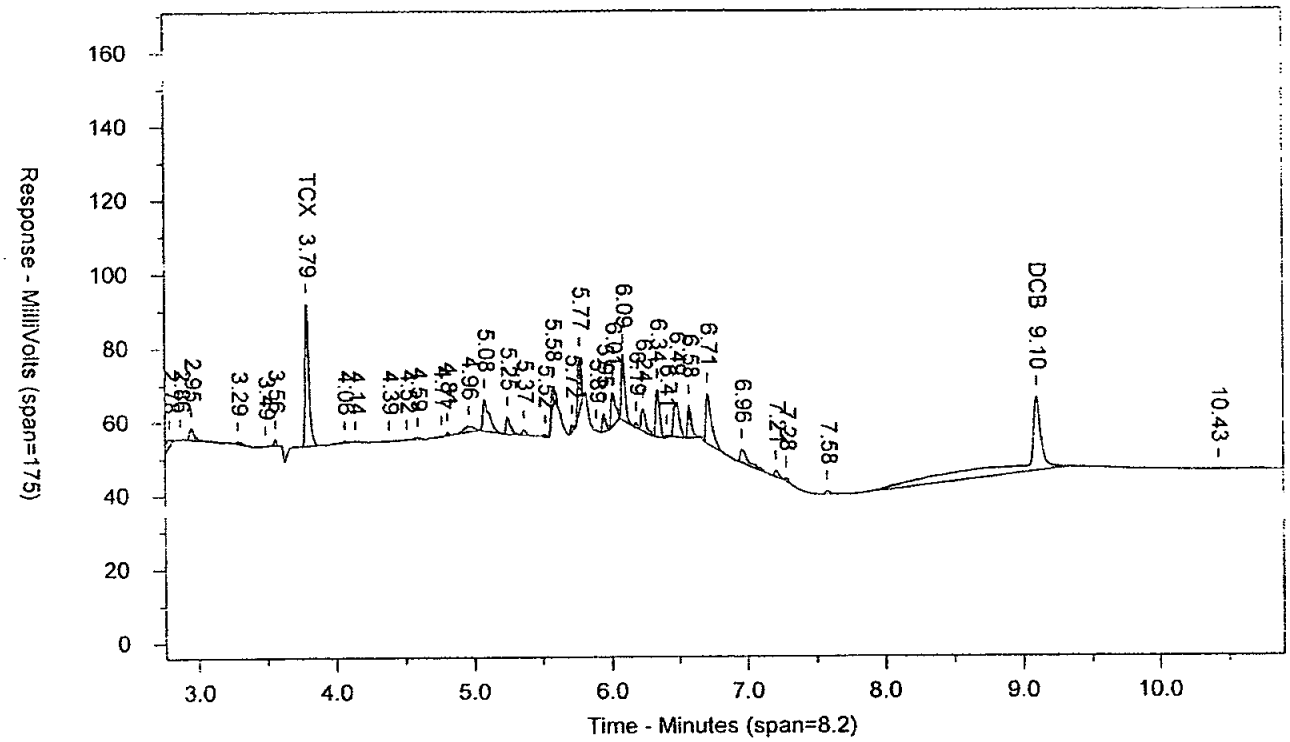

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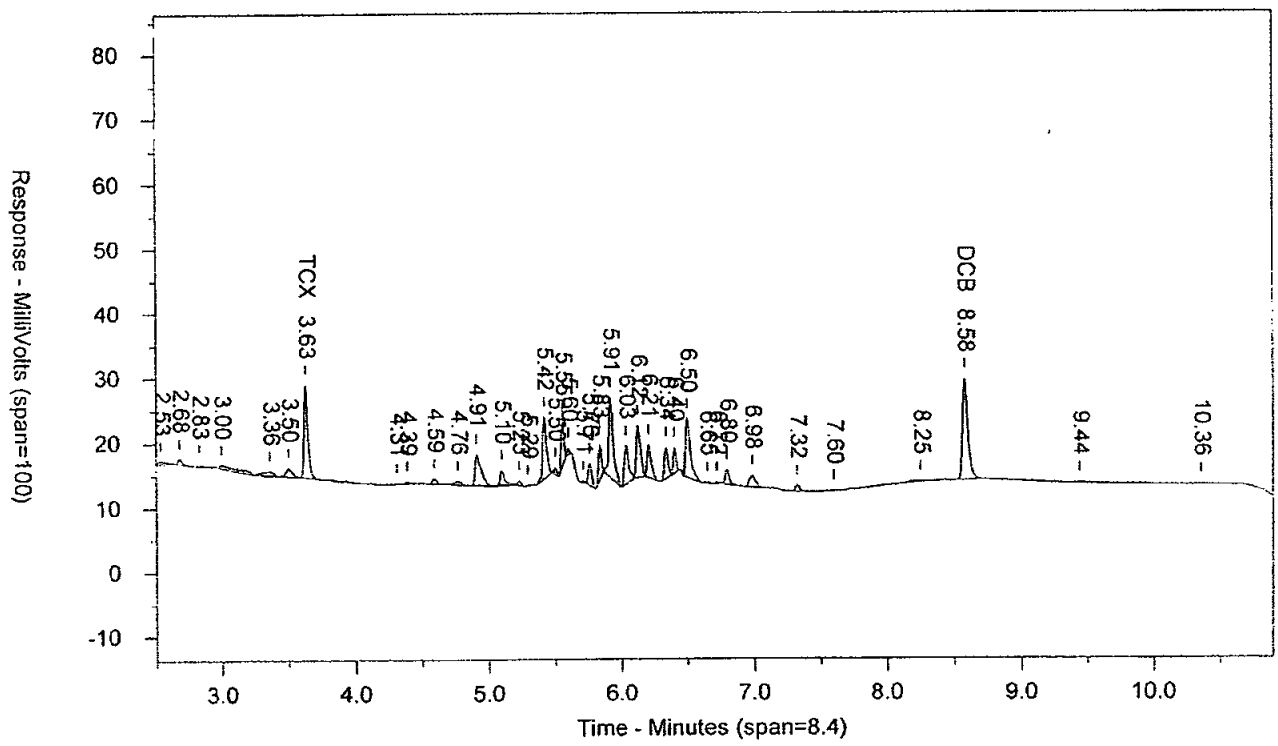

ASX73 1497

LANCASTER LABORATORIES

Sample Number: AR5411224A AAAR541AA ICAL 1220699999
Injected On: 7/25/2012 3:57:44 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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

Sample Weight: 1
Dilution Factor: 1

Threshold: 3
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
3.788	38599	4.508	TCX	3.629	14333	3.989	TCX
9.097	20236	5.029	DCB	8.577	15477	4.699	DCB

Files:
Area File: 1p7207.016.RAW
Area File: 1p7207B.016.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 4:08:11 PM
File Reported On: 7/25/2012 at 4:08:46 PM

ASX73 1498

AR5411224A AAAR541AA ICAL 1220699999

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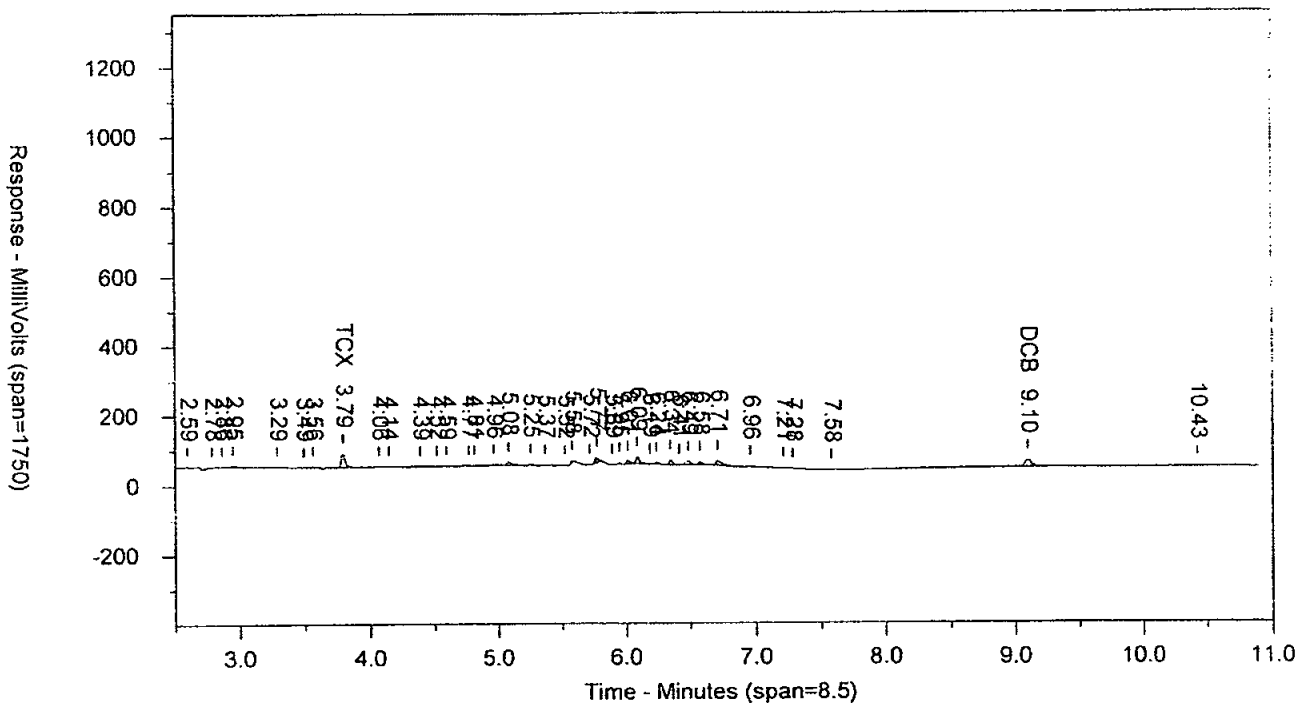

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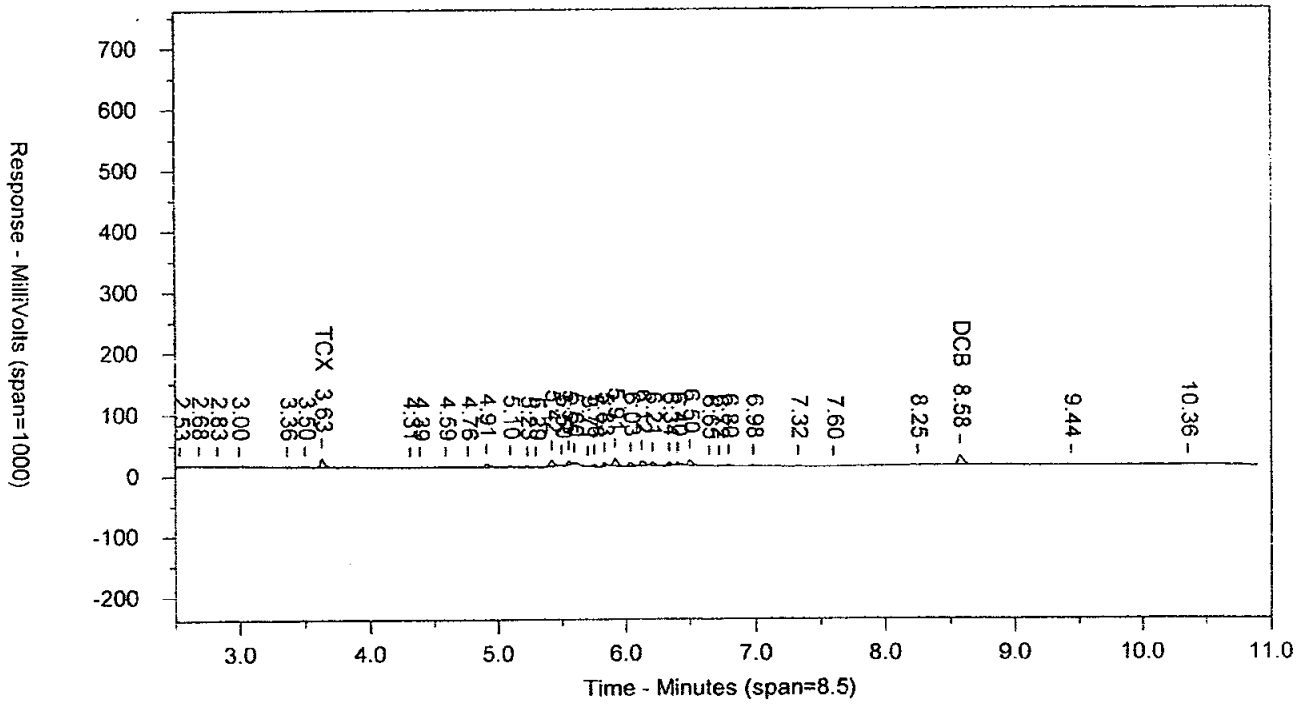

ASX73 1499

LANCASTER LABORATORIES

Sample Number: AR5421224A AAAR542AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 4:12:27 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.017.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.719		1267	7889
1.987		470	1342
2.103		671	4312
2.643		3190	6892
2.769		618	1026
2.86		1171	2305
2.946		2375	6746
3.284		1230	4694
3.415		786	1515
3.57		3454	10149
3.653		208	530
3.787	TCX	181048	369512
4.062		2459	4698
4.138		256	487
4.388		270	932
4.596		505	3672
4.772		242	1484
4.86		332	557
4.982		1429	7878
5.078		17325	55946
5.247		9722	22979
5.367		3234	6619
5.525		1088	1626
5.576		8000	10885
5.594		3858	3689
5.718		4107	5711
5.771		27644	46453
5.811		4705	6672
5.892		1065	1283
5.948		9761	17369
6.011		18542	40098
6.086		35130	69676
6.187		3484	4392
6.235		12008	29220
6.342		25926	51309
6.405		985	1312
6.485		19048	55871
6.576		18194	35013
6.663		1225	1817
6.713		27801	83264
6.961		7625	20534
7.207		3899	7972
7.28		2493	4790
7.579		2168	5928
7.881		436	918
8.22		1486	15068
8.752		786	27909
9.097	DCB	87842	316994

ASX73 1599

LANCASTER LABORATORIES

Sample Number: AR5421224A AAAR542AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 4:12:27 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.017.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.535		7104	35961
2.579		1212	2978
2.678		395	623
2.733		394	867
2.828		160	361
3.003		428	3065
3.293		179	306
3.355		457	1481
3.499		1517	4191
3.629	TCX	77773	151443
3.928		821	1535
4.311		238	620
4.384		167	530
4.587		324	762
4.698		206	355
4.759		428	1345
4.907		9418	28649
5.097		4931	12114
5.228		1579	2684
5.292		274	406
5.417		19046	39763
5.5		2097	2817
5.553		13633	20285
5.596		2183	2147
5.706		760	981
5.756		6309	12171
5.832		10944	16988
5.913		24163	56331
6.034		11677	26032
6.123		16048	34868
6.205		10023	21414
6.337		10012	18748
6.402		8232	12206
6.445		1023	1155
6.499		18534	48078
6.721		574	798
6.797		4761	10906
6.985		3763	13998
7.322		2000	5075
7.541		882	4136
8.25		503	21625
8.576	DCB	70355	194041
9.443		186	995
10.363		164	877

ASX73 1501

AR5421224A AAAR542AA ICAL 1220699999

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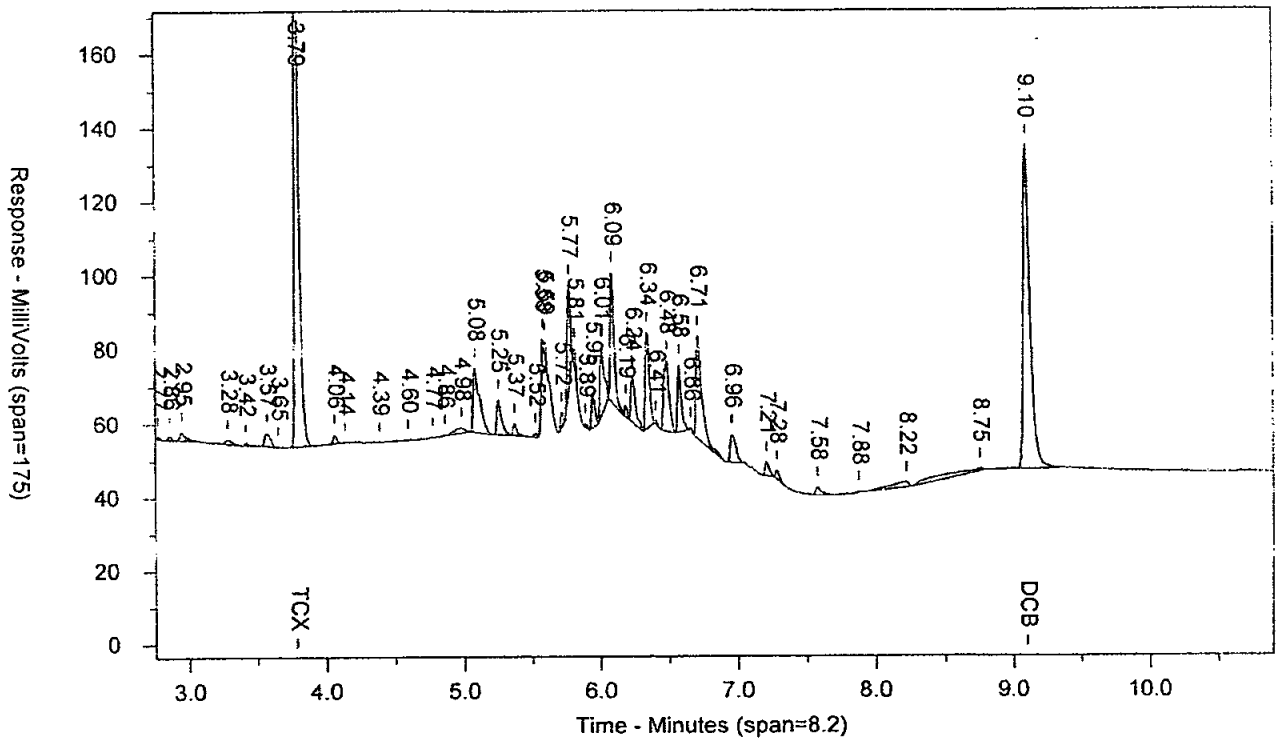

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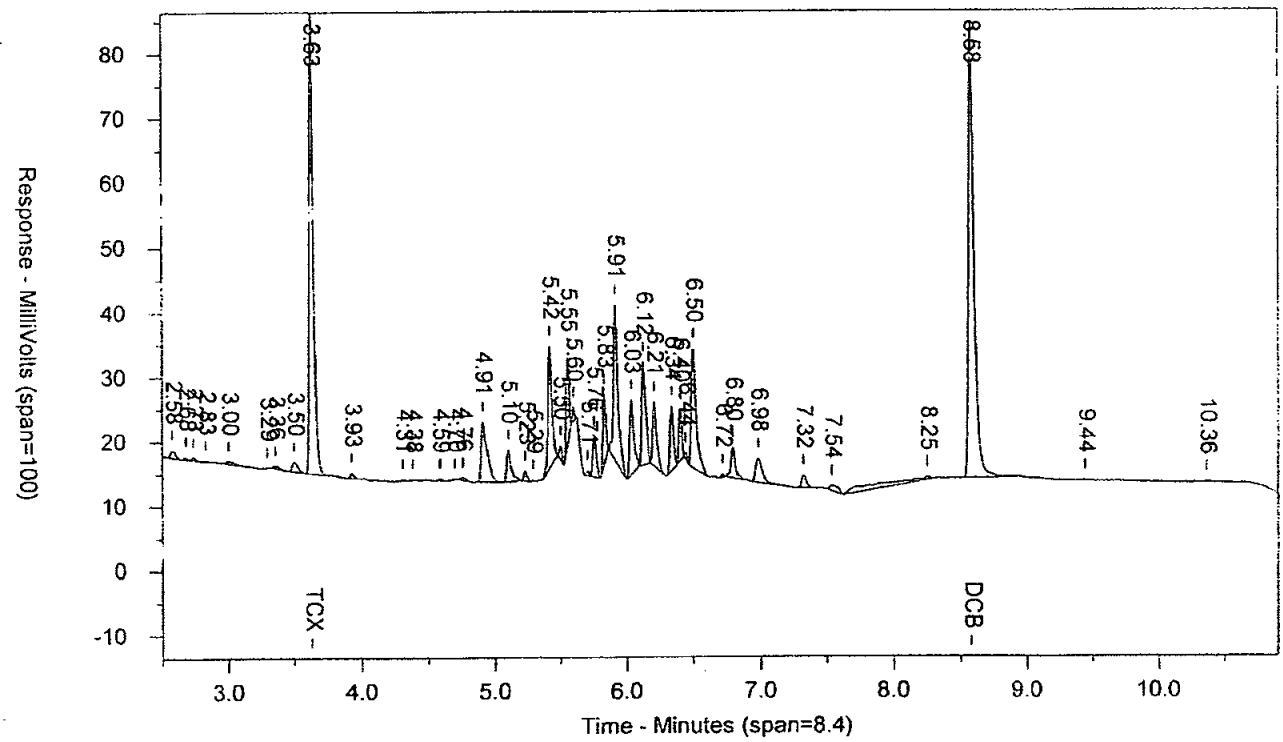

ASX73 1502

LANCASTER LABORATORIES

Sample Number: AR5421224A AAAR542AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 4:12:27 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.787	181048	21.144	TCX	3.629	77773	21.647	TCX
9.097	87842	21.831	DCB	8.576	70355	21.361	DCB

Files:
Area File: 1p7207.017.RAW
Area File: 1p7207B.017.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 4:22:55 PM
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ASX73 1593

AR5421224A AAAR542AA ICAL 1220699999

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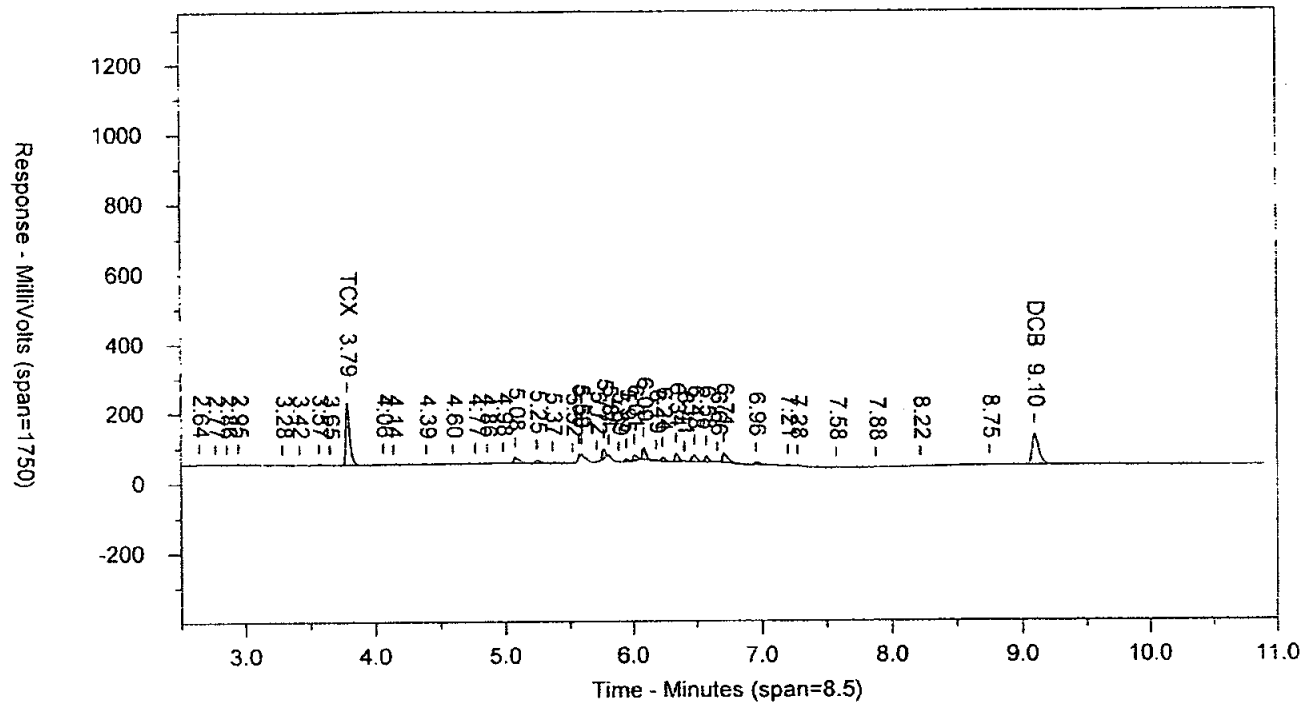

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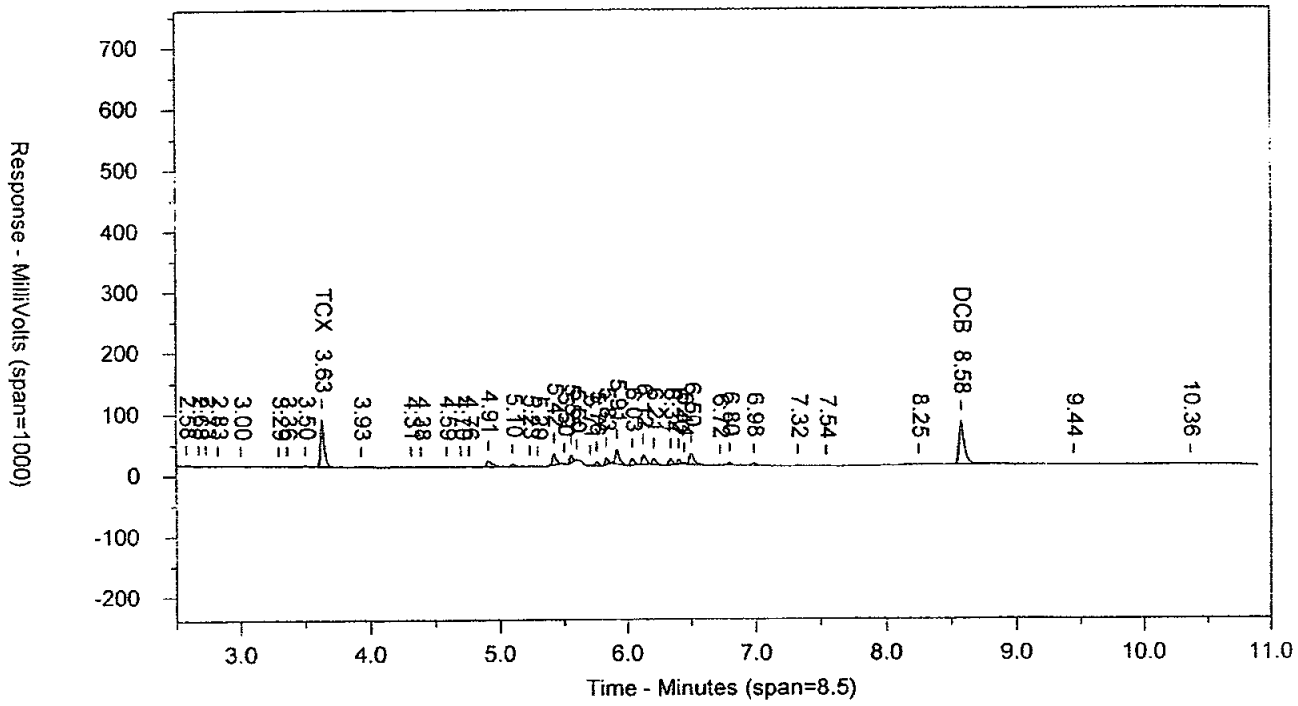

ASX73 1594

LANCASTER LABORATORIES

Sample Number: AR5431224A AAAR543AA ICAL 1220699999
Injected On: 7/25/2012 4:27:13 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1p7207.018.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

Injection Volume: 1 ul
Analyst: 2855

RT A	Compound A	Height A	Area A
1.706		1032	2980
1.997		358	1009
2.063		497	3520
2.641		923	1784
2.859		1814	3229
2.944		960	1614
2.996		557	796
3.279		655	3194
3.426		198	493
3.567		2544	7500
3.678		283	843
3.785	TCX	320986	679819
4.061		4536	8109
4.135		561	1187
4.215		233	223
4.434		750	1818
4.598		768	1678
4.679		482	697
4.771		437	1063
4.855		1282	2854
4.984		1461	6311
5.076		38209	126365
5.245		22163	53731
5.366		7534	12623
5.525		1581	2116
5.574		20785	24630
5.593		8086	7606
5.716		9203	12771
5.769		58367	97143
5.809		10479	14742
5 89		2349	2899
5.946		21681	38765
6.009		41087	89874
6.084		76659	157437
6.185		7919	9906
6.233		25927	64263
6.341		60051	162766
6.484		41461	124443
6.575		41857	80398
6.662		2953	4150
6.711		61295	179499
6.831		1019	2074
6.959		18147	50052
7.096		1072	1712
7.205		9265	19075
7.28		6005	12048
7.578		4343	7601
7.877		1384	3674
8.747		1348	61296
9.095	DCB	150822	569376

ASX73 1595

LANCASTER LABORATORIES

Sample Number: AR5431224A AAAR543AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 4:27:13 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1p7207B.018.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.536		9571	51522
2.574		367	838
2.733		559	1214
3.007		408	2982
3.355		349	1142
3.496		1103	3052
3.627	TCX	144714	280276
3.927		1625	3142
4.008		229	438
4.09		272	511
4.307		549	1449
4.475		328	785
4.584		589	1541
4.695		820	1678
4.905		21048	64721
5.096		11418	25806
5.228		3486	6040
5.288		526	752
5.344		381	512
5.415		42541	86538
5.498		4569	6123
5.551		30085	43448
5.595		5195	5097
5.62		4182	6092
5.706		1683	2162
5.754		14266	27336
5.831		25045	37540
5.911		55583	132645
6.032		25892	56570
6.121		36163	77363
6.203		22094	45580
6.335		22843	41578
6.401		19259	28385
6.443		2388	2597
6.497		42594	109777
6.657		557	919
6.72		1501	2117
6.796		11497	25271
6.891		546	745
6.983		9034	32529
7.322		4657	12563
7.539		780	1579
7.723		175	414
7.825		196	487
7.889		199	381
8.249		684	1760
8.328		163	391
8.574	DCB	123208	338196
9.413		180	874
9.69		163	737
10.354		139	671

ASX73 1596

AR5431224A AAAR543AA ICAL 1220699999

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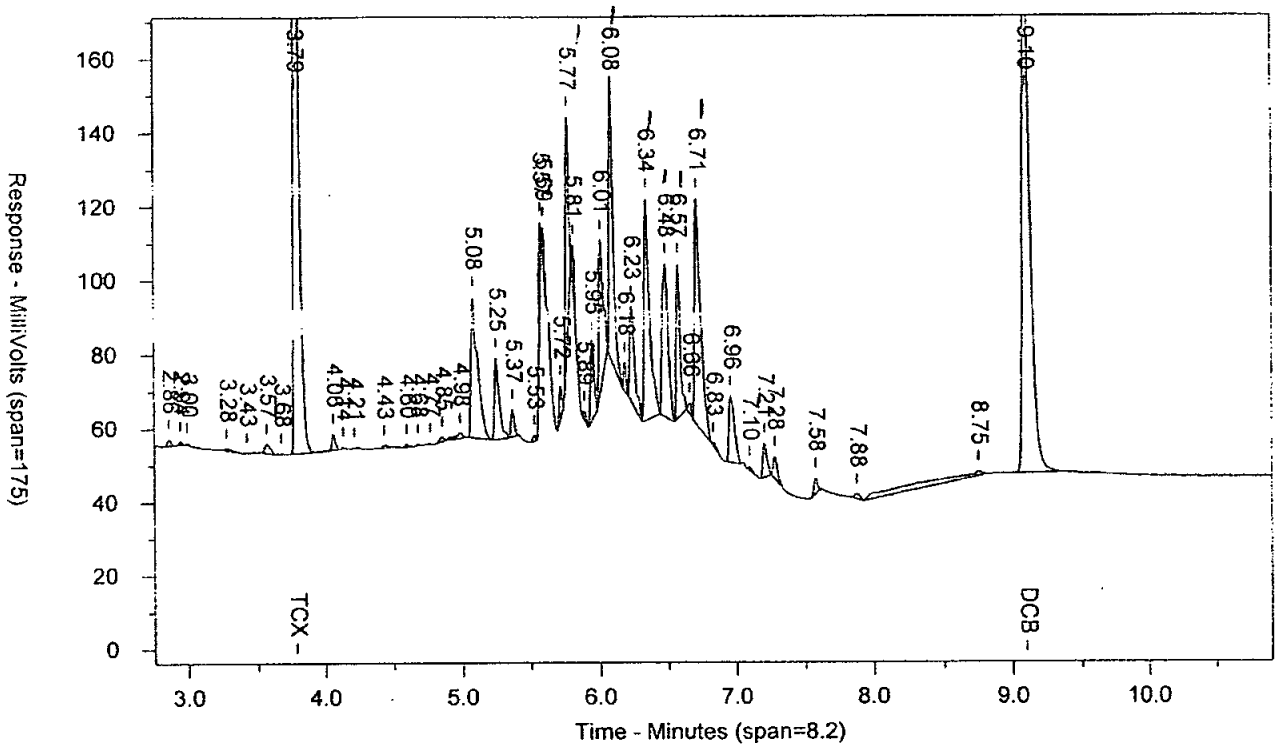

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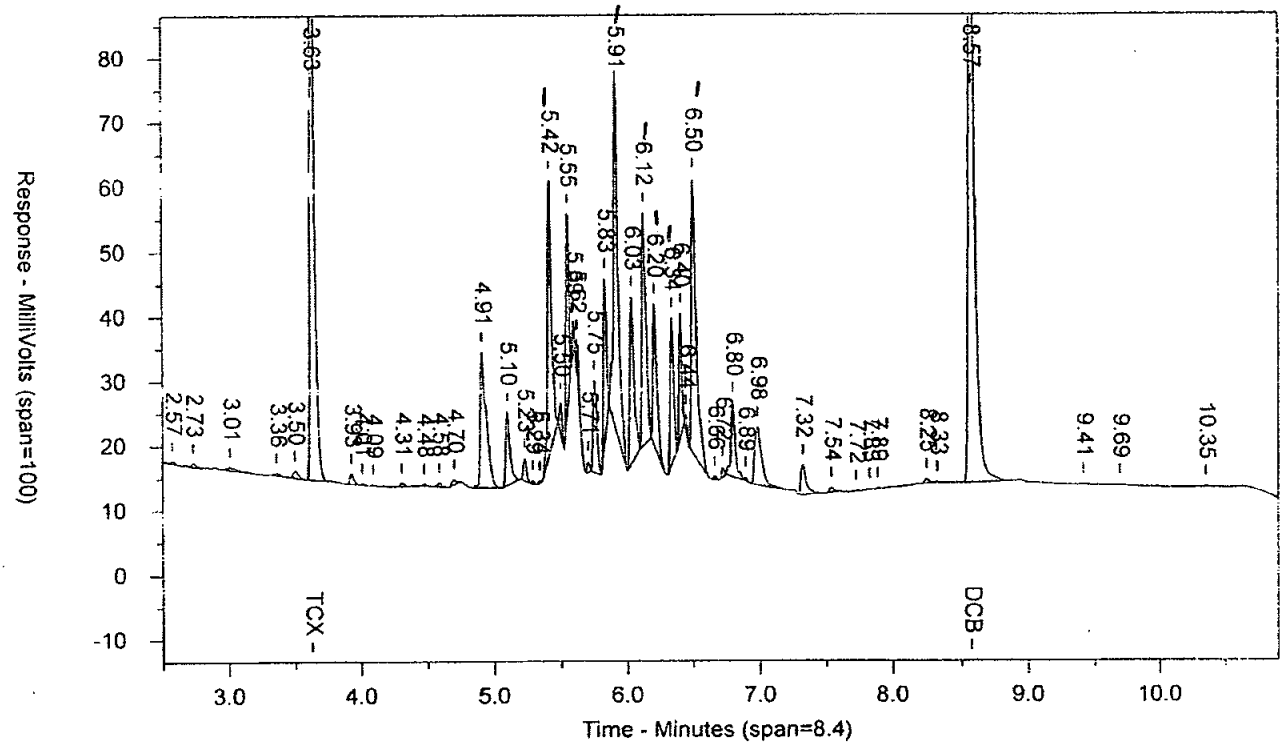

ASX73 1507

LANCASTER LABORATORIES

Sample Number: AR5431224A AAAR543AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 4:27:13 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.785	320986	37.487	TCX	3.627	144714	40.279	TCX
9.095	150822	37.483	DCB	8.574	123208	37.408	DCB

Files:
Area File: 1p7207.018.RAW
Area File: 1p7207B.018.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 4:37:40 PM
File Reported On: 7/25/2012 at 4:38:12 PM

ASX73 1508

AR5431224A AAAR543AA ICAL 1220699999

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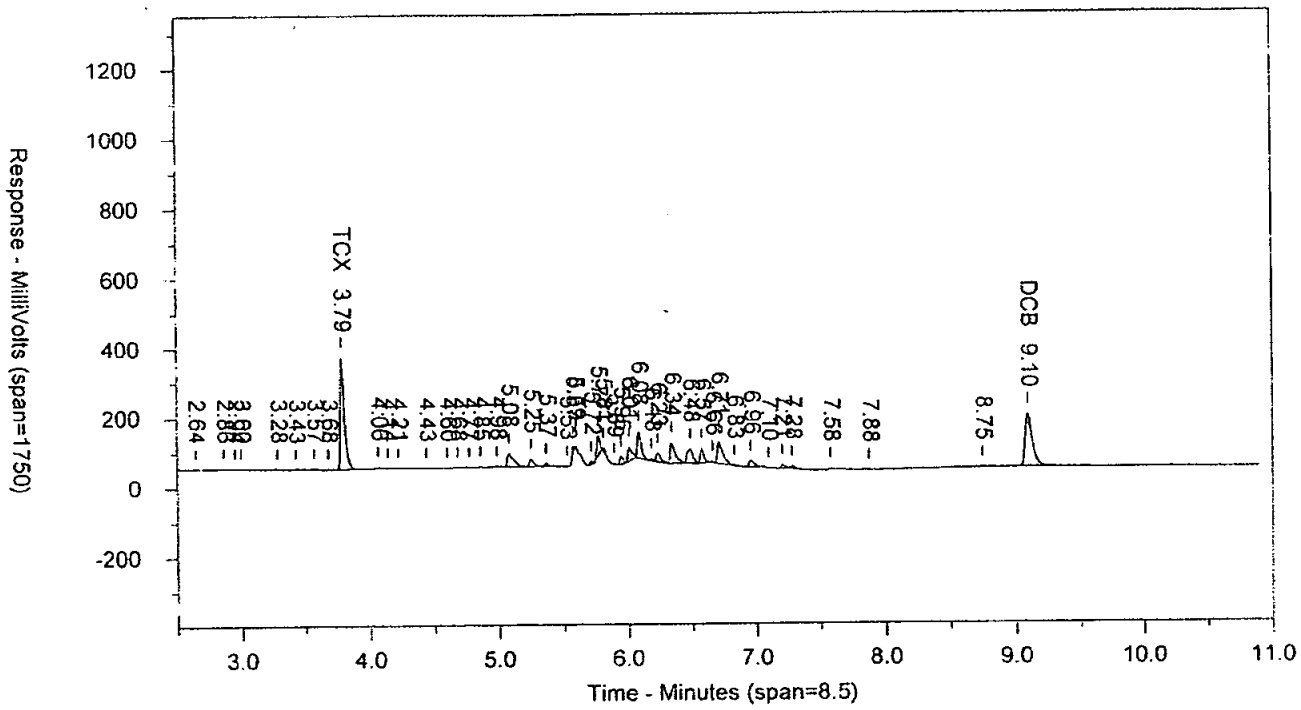

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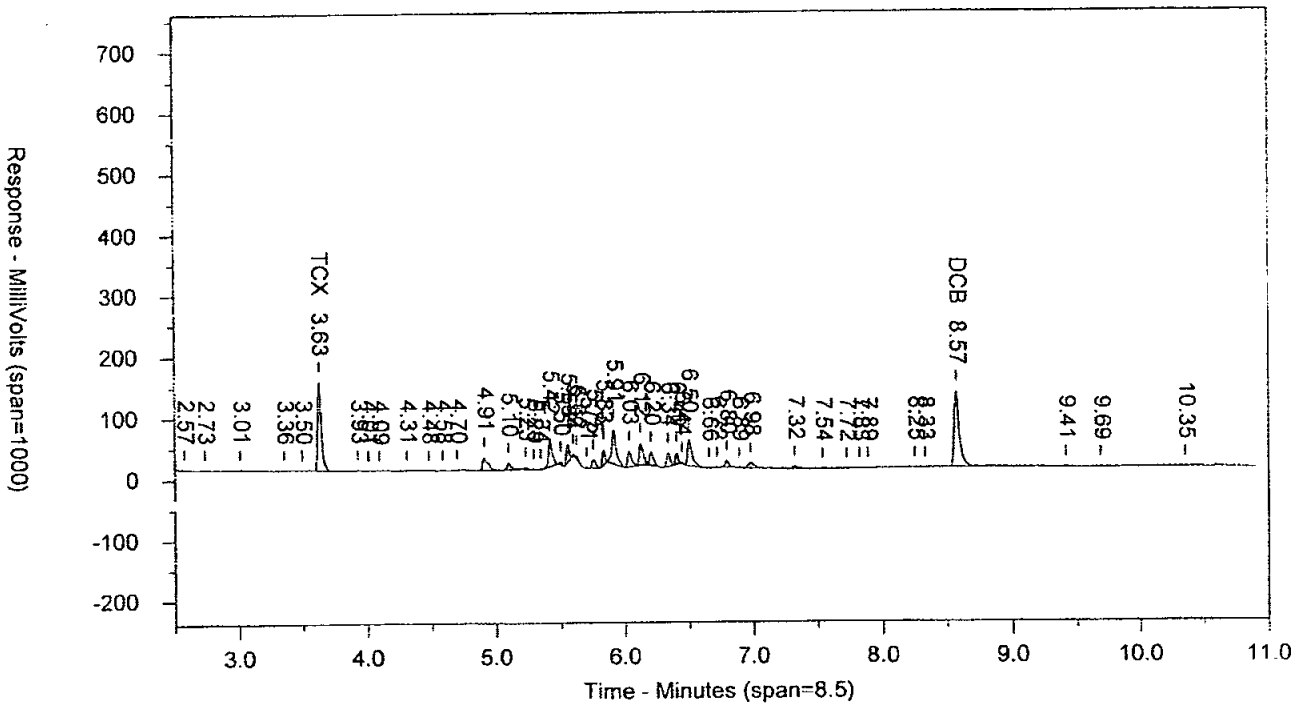

ASX73 1599

LANCASTER LABORATORIES

Sample Number: AR5441224A AAAR544AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 4:48:25 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.019.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.721		1322	5176
1.838		1423	9158
1.995		721	2845
2.102		523	3448
2.651		1924	3844
2.778		424	739
2.869		2881	4944
2.954		982	1443
3.007		884	1418
3.288		949	4376
3.423		348	573
3.578		2964	10207
3.69		190	772
3.794	TCX	448140	965840
4.005		171	363
4.07		6599	11241
4.144		1084	2056
4.251		767	1089
4.463		1673	5979
4.605		1529	3448
4.686		1035	1979
4.863		3687	9106
4.911		997	1492
4.992		1489	2430
5.084		68020	229126
5.253		40098	100176
5.373		13774	23046
5.535		1942	2513
5.582		35344	42639
5.602		16199	32573
5.724		16775	22932
5.777		101799	164307
5.816		20426	27720
5.897		3707	4773
5.954		38939	69092
6.018		72034	159619
6.092		134741	283247
6.193		13575	16939
6.241		44995	113853
6.349		105506	265532
6.492		71458	221353
6.583		76008	151372
6.669		4752	7155
6.72		112091	337276
6.969		33613	93550
7.056		1995	2746
7.105		2000	3018
7.215		17494	36525
7.289		11467	23074
7.588		10297	32565
7.888		1315	3164
7.996		386	709
8.23		1080	6547

ASX73 1519

RT A	Compound A	Height A	Area A
8.339		497	1228
8.763		1625	11848
9.11	DCB	207251	819293
9.989		211	636

ASX73 1511

LANCASTER LABORATORIES

Sample Number: AR5441224A AAAR544AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 4:48:25 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.019.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.539		9749	52365
2.584		727	1725
2.739		922	2054
2.894		300	621
3.36		387	1208
3.503		1196	3312
3.632	TCX	204854	393463
3.933		2322	4499
4.016		519	1106
4.096		323	573
4.313		944	2350
4.481		740	1712
4.589		458	1086
4.701		2300	10004
4.91		37223	113273
5.101		21131	52000
5.235		6879	12434
5.294		994	1418
5.349		790	1036
5.419		76721	153760
5.503		8608	11022
5.556		54350	75727
5.6		9781	9662
5.625		7756	11239
5.711		3200	4104
5.759		25860	48516
5.836		47014	68114
5.881		2890	2648
5.916		93600	185600
6.037		46824	100635
6.126		66702	137141
6.208		39708	82110
6.34		42201	75338
6.407		38478	54753
6.449		4484	4993
6.502		79185	204350
6.663		817	1188
6.726		2897	4099
6.768		1003	935
6.802		20185	37853
6.897		973	1963
6.989		17146	55705
7.328		9327	22457
7.546		1366	4696
7.731		546	2431
7.898		537	1242
8.18		185	480
8.258		1105	2898
8.583	DCB	168432	480841
9.428		243	1110
10.372		257	1427

ASX73 1512

AR5441224A AAAR544AA ICAL 1220699999

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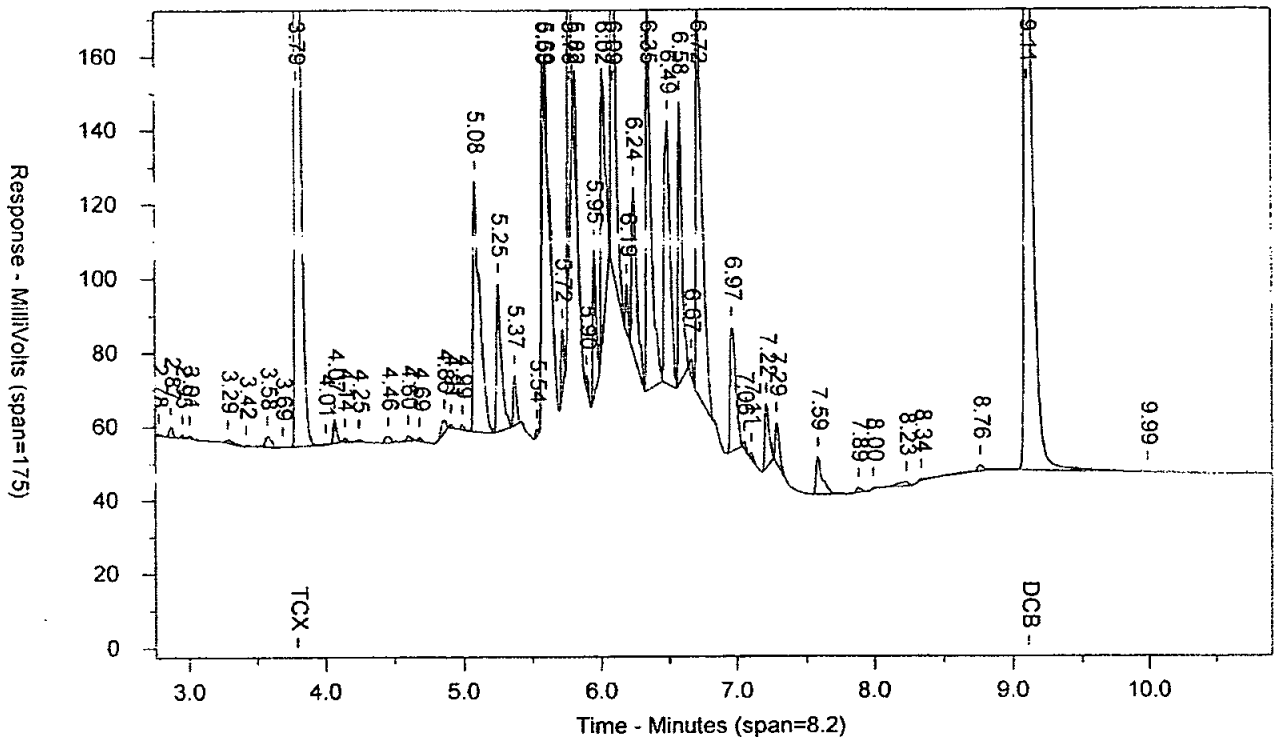

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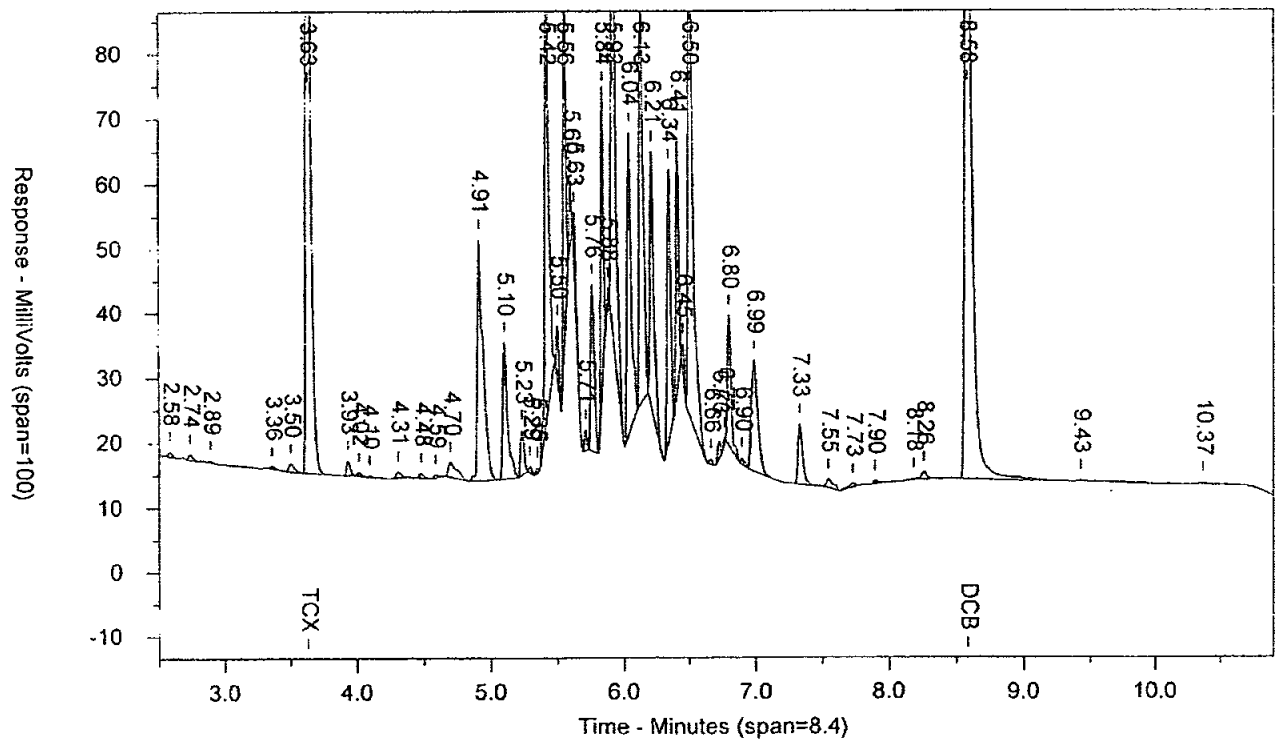

ASX73 1513

LANCASTER LABORATORIES

Sample Number: AR5441224A AAAR544AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 4:48:25 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.794	448140	52.337	TCX	3.632	204854	57.017	TCX
9.11	207251	51.507	DCB	8.583	168432	51.139	DCB

Files:
Area File: 1P7207.019.RAW
Area File: 1P7207B.019.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 4:58:52 PM
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ASX73 1514

AR5441224A AAAR544AA ICAL 1220699999

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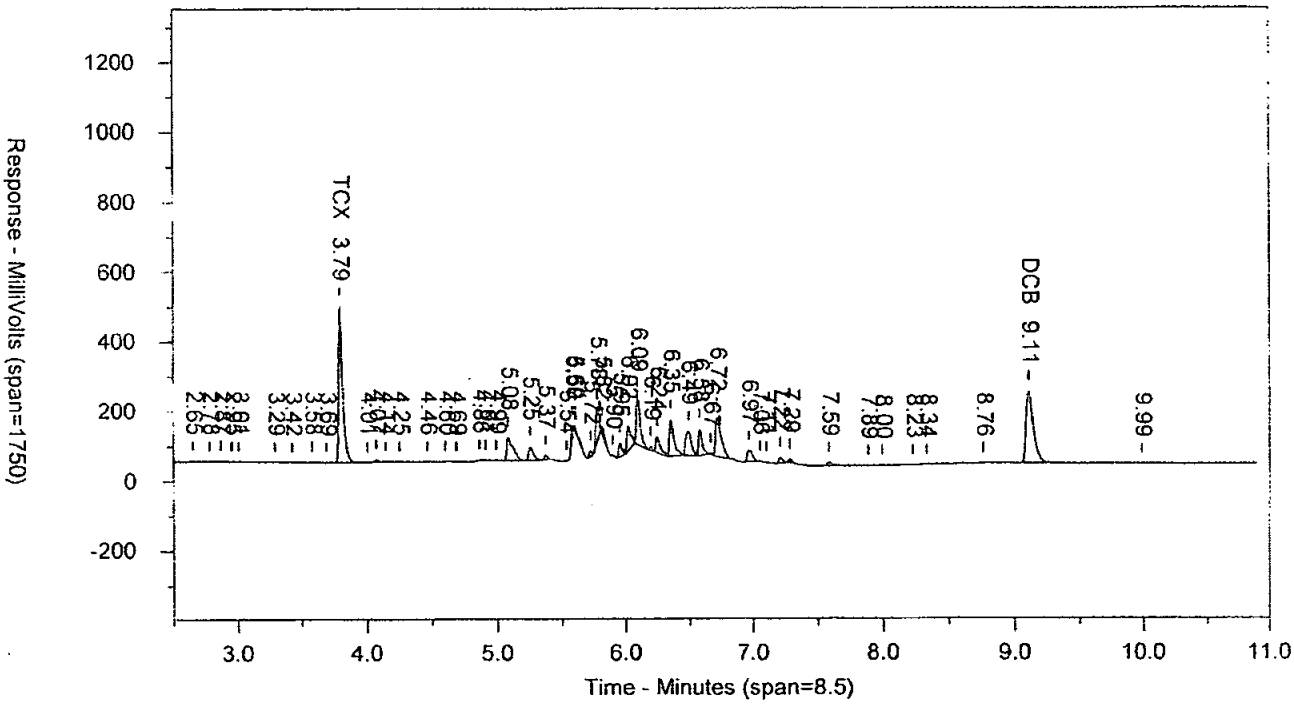

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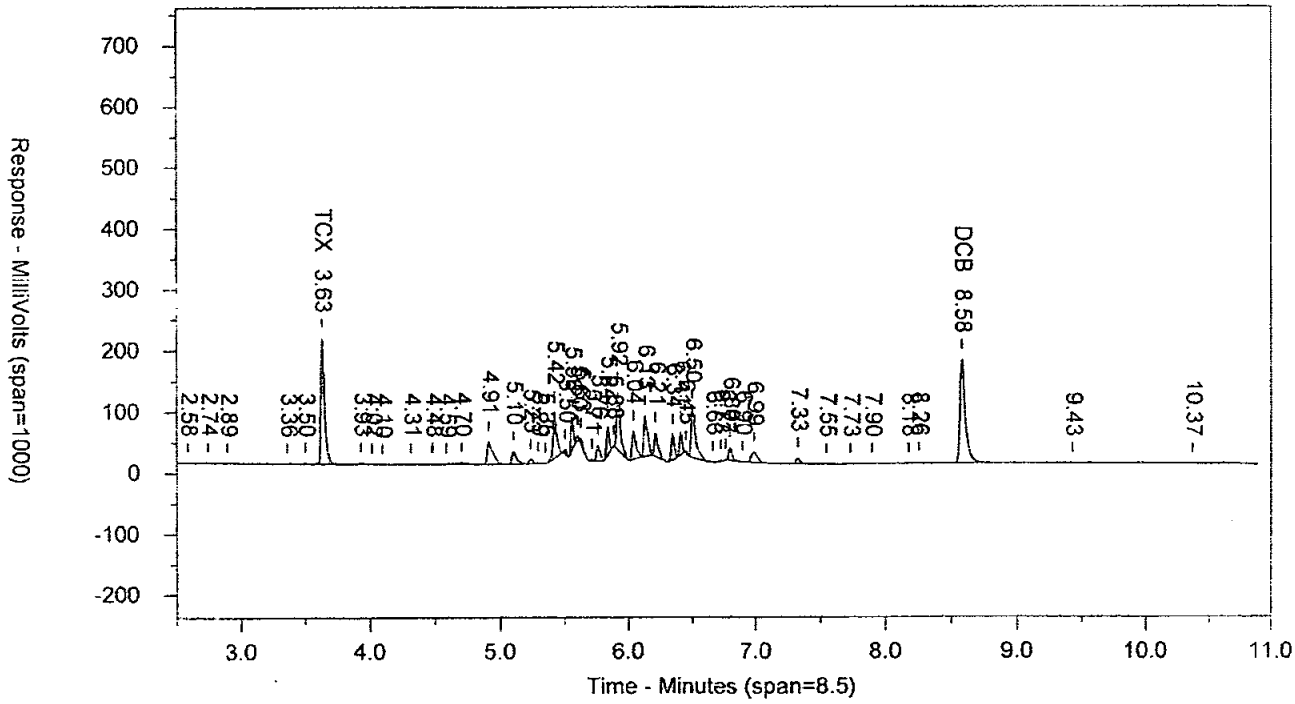

ASX73 1515

LANCASTER LABORATORIES

Sample Number: AR5451224A AAAR545AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 5:03:12 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.020.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.71		1659	4635
1.998		331	940
2.104		442	3046
2.644		5729	13487
2.862		3747	6989
2.947		1247	1976
2.999		1201	1882
3.282		492	2450
3.417		1443	2571
3.571		3354	10843
3.788	TCX	597029	1313557
3.996		287	618
4.064		9200	15633
4.138		2191	4159
4.245		1040	1711
4.437		1257	1517
4.599		2981	5789
4.681		1042	1680
4.772		861	2187
4.855		7535	18276
4.905		1977	2834
4.987		3259	5616
5.078		127868	437585
5.248		76368	195752
5.368		26800	45347
5.53		4371	5886
5.576		62081	77844
5.596		34672	59531
5.719		32032	43787
5.771		190623	310887
5.811		38630	50474
5.892		6198	7643
5.949		72970	129014
6.012		137830	305708
6.086		255919	543910
6.187		26114	32418
6.235		82920	208612
6.343		204845	521258
6.487		137545	420690
6.577		151462	305232
6.664		10179	13606
6.714		216200	696033
6.963		67615	189838
7.05		3633	4778
7.1		4181	6284
7.209		35670	73573
7.283		22379	45698
7.581		20920	65876
7.882		2000	4940
7.988		783	1373
8.326		1105	2490
8.753		2270	10948
9.101	DCB	278723	1093321

ASX73 1516

RT A	Compound A	Height A	Area A
9.979		293	1001
10.15		160	938

ASX73 1517

LANCASTER LABORATORIES

Sample Number: AR5451224A AAAR545AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 5:03:12 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.020.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.534		8389	44037
1.849		536	1349
2.581		2062	5135
2.68		271	430
2.737		1143	2523
2.893		439	946
3.004		342	2260
3.294		442	819
3.5		1322	3781
3.629	TCX	279555	540718
3.93		3346	6491
4.013		995	2010
4.093		439	780
4.31		2103	5312
4.479		1379	3037
4.587		797	2433
4.698		3506	7498
4.863		847	1060
4.907		69991	205476
5.098		42211	101272
5.232		14358	25505
5.291		1823	2529
5.348		1483	1979
5.416		148486	287862
5.499		16839	20979
5.553		105717	141872
5.597		21103	20657
5.622		15694	22365
5.708		6357	8002
5.755		50219	91257
5.832		94446	130426
5.878		7020	6578
5.913		179493	349858
6.033		89387	186892
6.122		127860	260402
6.204		75788	152603
6.336		82760	142805
6.404		78166	108672
6.445		9141	9788
6.498		152142	393350
6.662		1623	2318
6.723		5899	8357
6.764		1773	1907
6.798		41122	76556
6.895		2129	4217
6.985		34256	109759
7.261		546	860
7.325		18328	44074
7.543		1457	2807
7.605		600	1121
7.725		551	1434
7.893		861	1860
8.18		162	431
8.254		1604	3625

ASX73 1518

8.577	DCB	224735	632219
9.414		231	559
9.536		167	396
10.368		303	1576

ASX73 1519

AR5451224A AAAR545AA ICAL 1220699999

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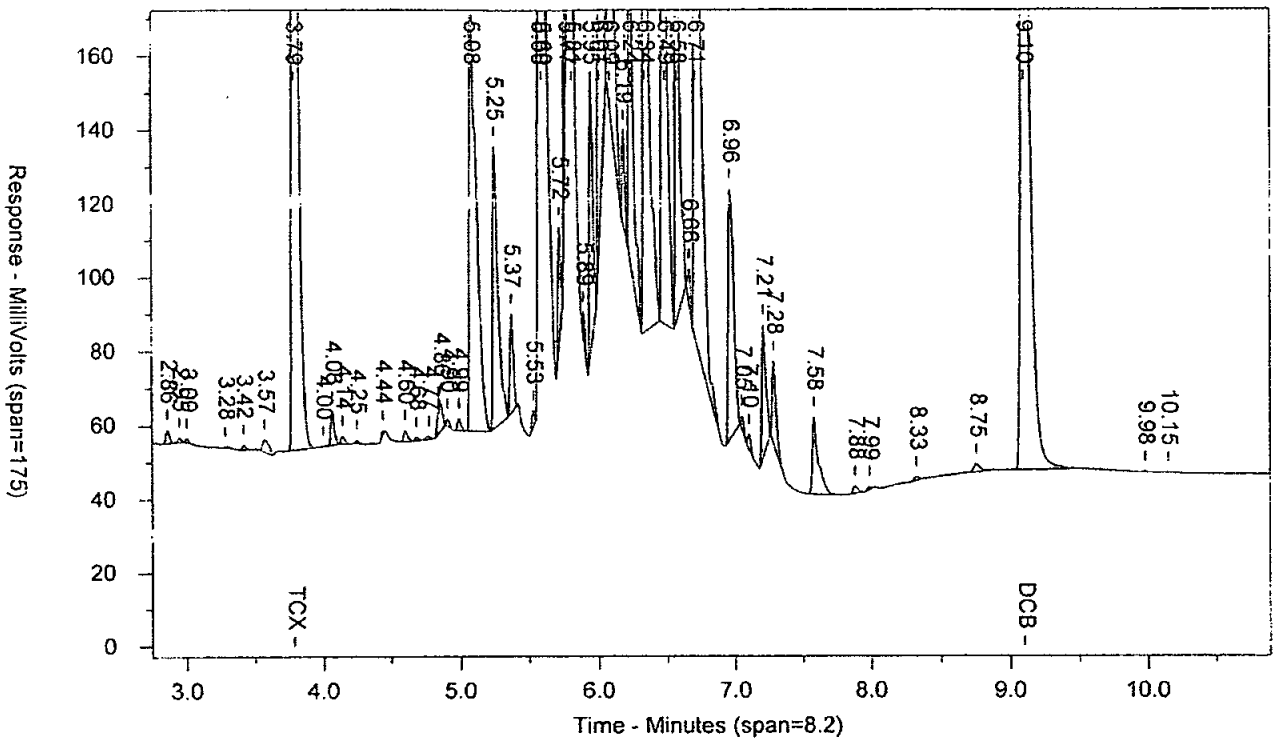

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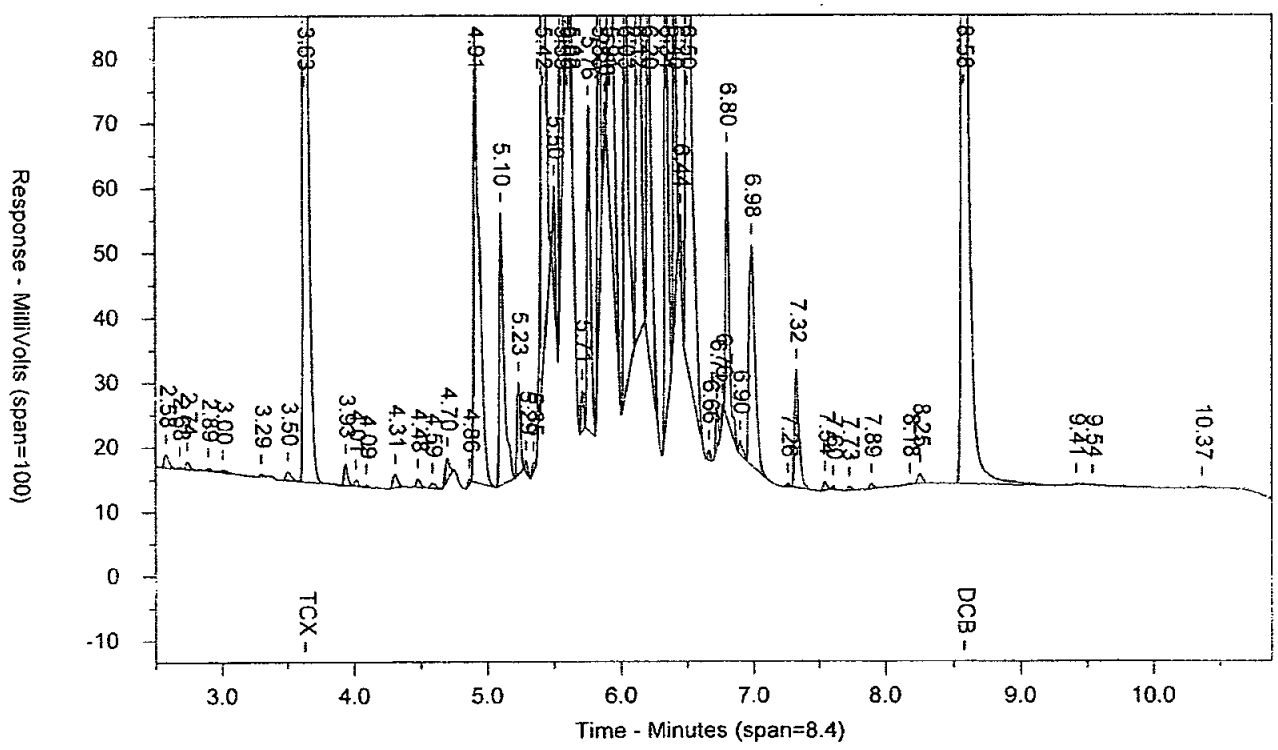

ASX73 1528

LANCASTER LABORATORIES

Sample Number: AR5451224A AAAR545AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 5:03:12 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.788	597029	69.726	TCX	3.629	279555	77.809	TCX
9.101	278723	69.27	DCB	8.577	224735	68.233	DCB

Files:
Area File: 1P7207.020.RAW
Area File: 1P7207B.020.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 5:13:40 PM
File Reported On: 7/25/2012 at 5:14:17 PM

8SX73 1521

AR5451224A AAAR545AA ICAL 1220699999

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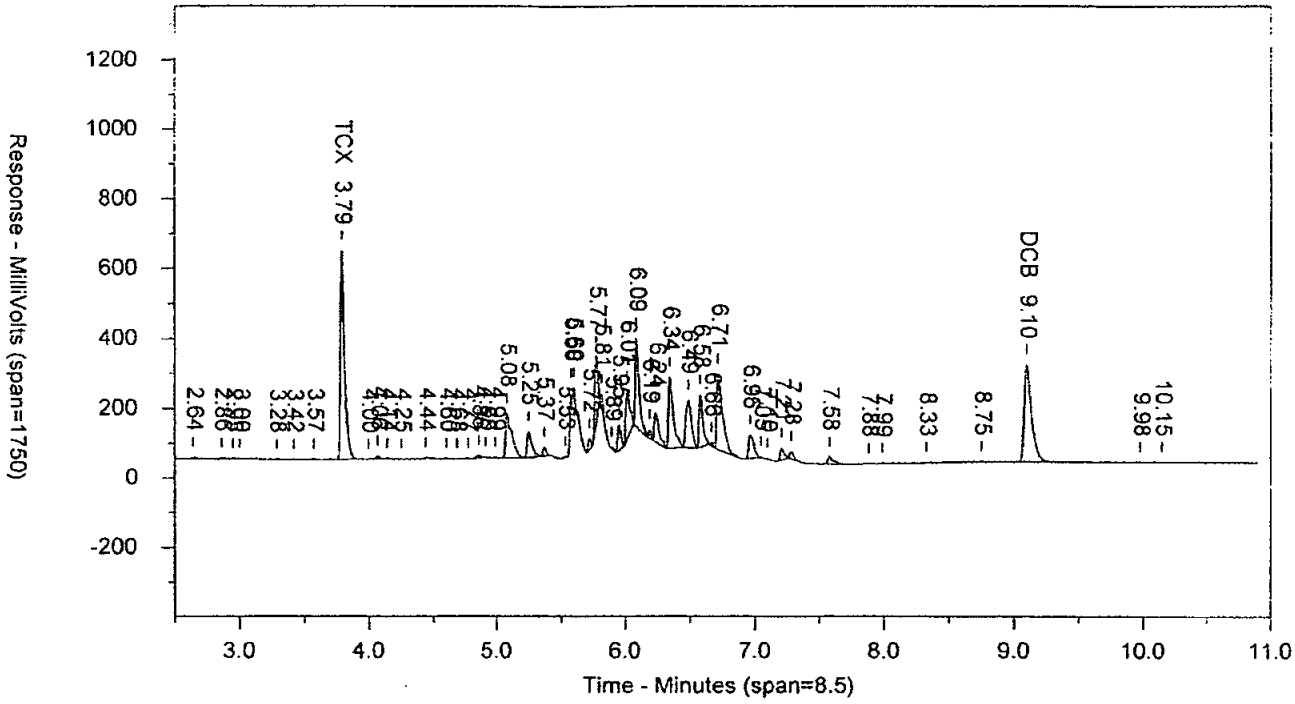

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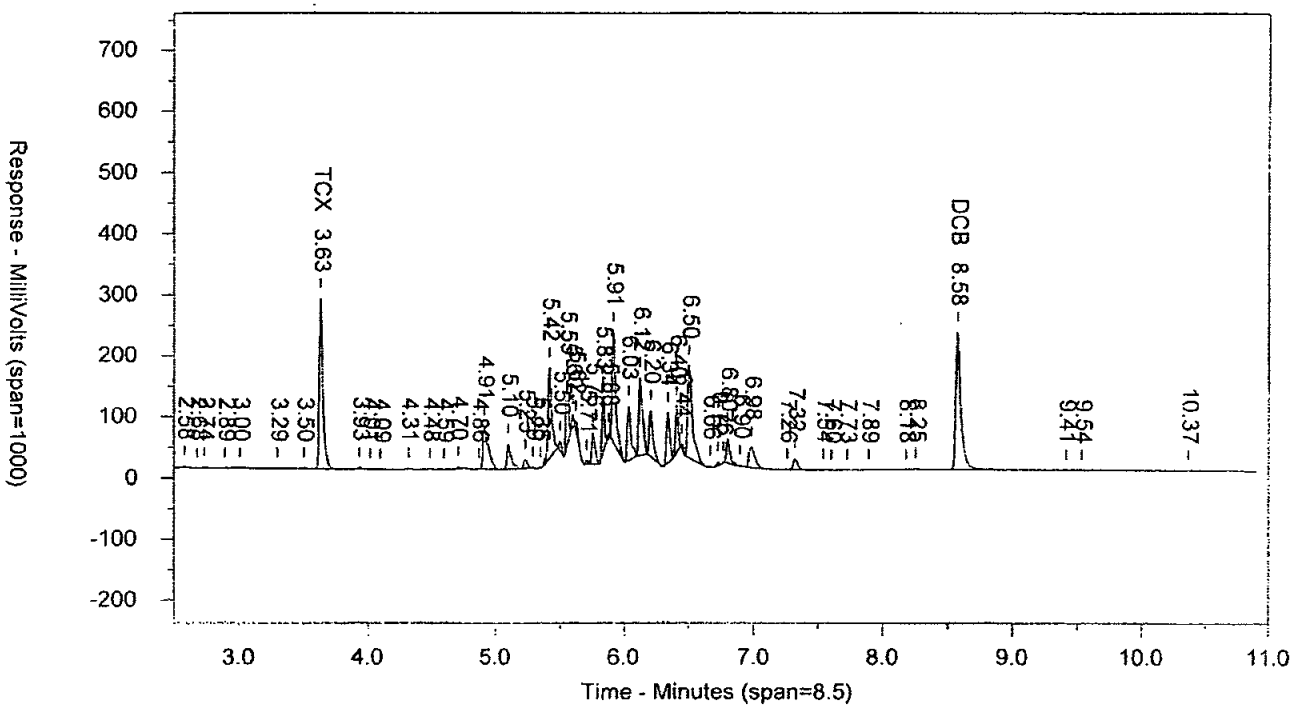

ASX73 1522

LANCASTER LABORATORIES

Sample Number: AR6231224B AAAR623AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 5:17:59 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.021.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.71		815	3147
2.058		353	3529
2.778		1230	5984
2.947		2853	6989
3.286		807	4749
3.522		374	2781
3.57		13105	40550
3.679		703	2242
3.894		169	240
4.069		199	1234
4.137		1021	2773
4.435		1041	2826
4.597		1557	4308
4.767		479	1495
4.811		1230	1535
4.85		913	1178
4.984		2108	11465
5.078		846	1129
5 248		986	2285
5.37		798	1719
5.518		628	1236
5.576		7902	24839
5.774		10879	33181
5.946		523	893
6.032		6979	13551
6.085		2484	3326
6.144		27378	72740
6.235		41596	99648
6.336		672	527
6.371		5519	7723
6.406		2869	4149
6.47		42506	85788
6.528		12461	17193
6.576		12467	26509
6.667		713	594
6.711		38140	79273
6.786		48656	80610
6.834		14209	22123
6.982		45826	113014
7.051		13757	42104
7.208		6393	11673
7.283		96993	279440
7.576		49593	102124
7.66		27916	71749
7.878		3320	8217
8.027		14397	46547
8.322		34044	88881
8.749		14262	44469
9.098	DCB	421	1680

ASX73 1523

LANCASTER LABORATORIES

Sample Number: AR6231224B AAAR623AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 5:17:59 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.021.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.544		5735	34496
2.521		304	1623
2.68		720	1743
2.828		219	665
3.003		467	4547
3.358		724	3259
3.501		6042	19134
4.01		351	697
4.311		728	1803
4.384		424	1225
4.476		470	1155
4.59		1924	4447
4.7		1078	2187
4.759		705	1760
4.861		233	276
4.908		504	751
5.098		348	521
5.198		972	2793
5.297		223	556
5.417		4713	10530
5.554		5477	14382
5.754		387	761
5.831		714	1130
5.892		4137	5949
5.927		13347	32253
6.031		27428	57494
6.151		3034	4727
6.205		33032	69933
6.339		30188	57439
6.406		2287	2736
6.451		6213	8265
6.498		8178	10049
6.532		32194	45879
6.577		9167	12595
6.705		6981	11455
6.764		37792	73895
6.853		13222	21291
6.919		1500	2151
6.99		74815	152836
7.084		3092	4977
7.26		29930	52709
7.325		50911	105819
7.541		2164	4341
7.644		1225	2277
7.725		10910	25591
7.891		29114	75013
8.252		11303	28828
8.577	DCB	376	1033
9.445		159	653
10.363		250	1459

ASX73 1524

AR6231224B AAAR623AA ICAL 1220699999

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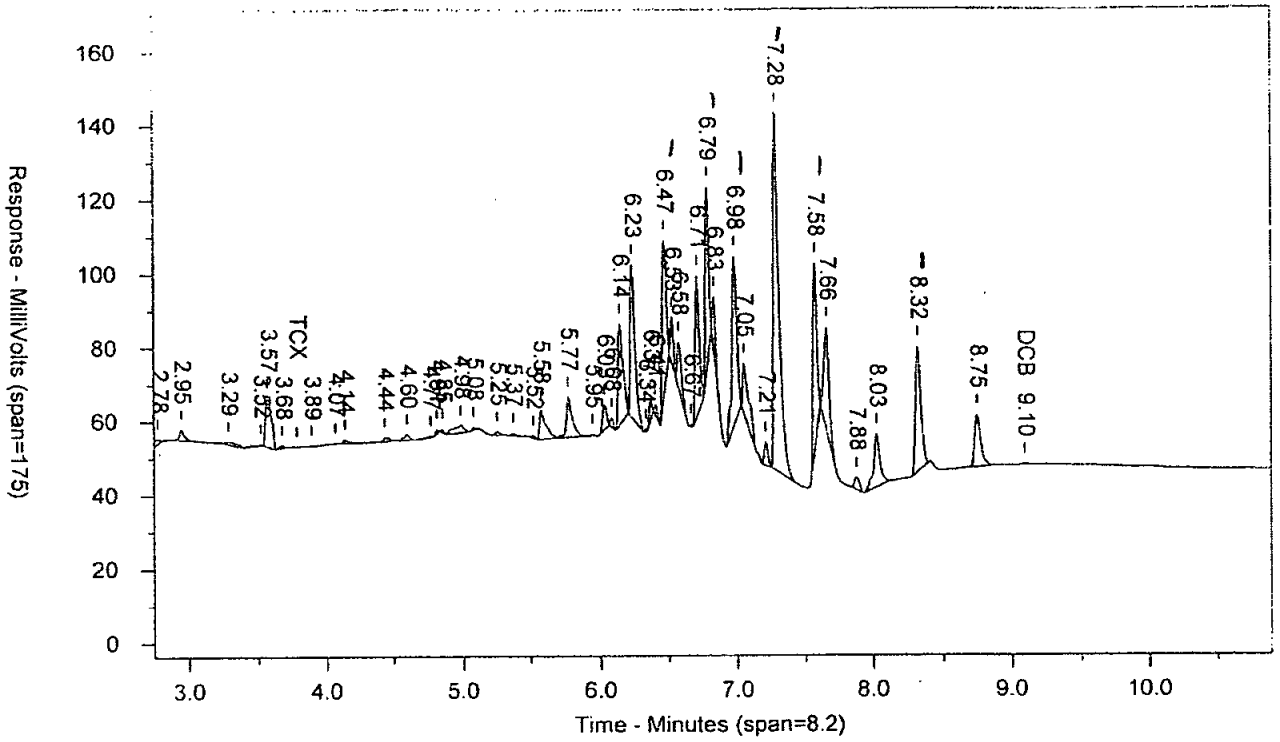

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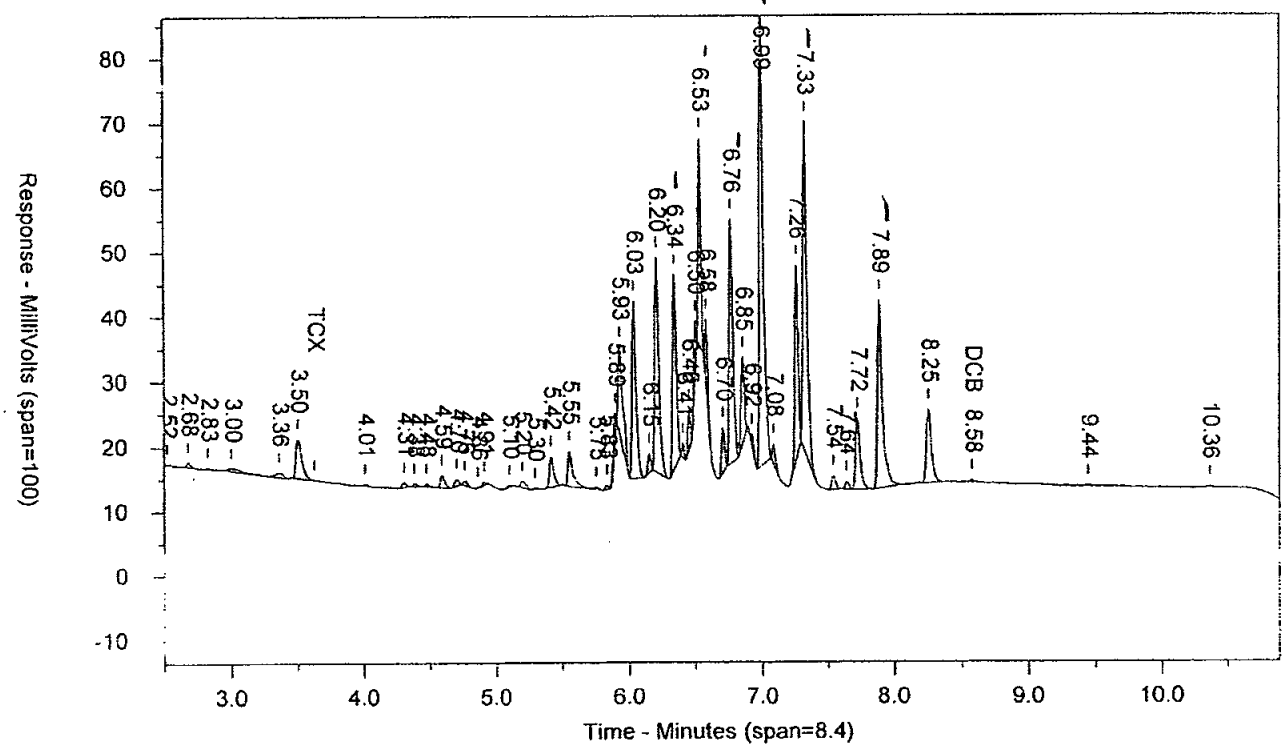

ASX73 1525

LANCASTER LABORATORIES

Sample Number: AR6231224B AAAR623AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 5:17:59 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
9.098	421	.105	DCB	8.577	376	.114	DCB

Files:
Area File: 1P7207.021.RAW
Area File: 1P7207B.021.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 5:28:26 PM
File Reported On: 7/25/2012 at 5:28:58 PM

ASX73 1526

AR6231224B AAAR623AA ICAL 1220699999

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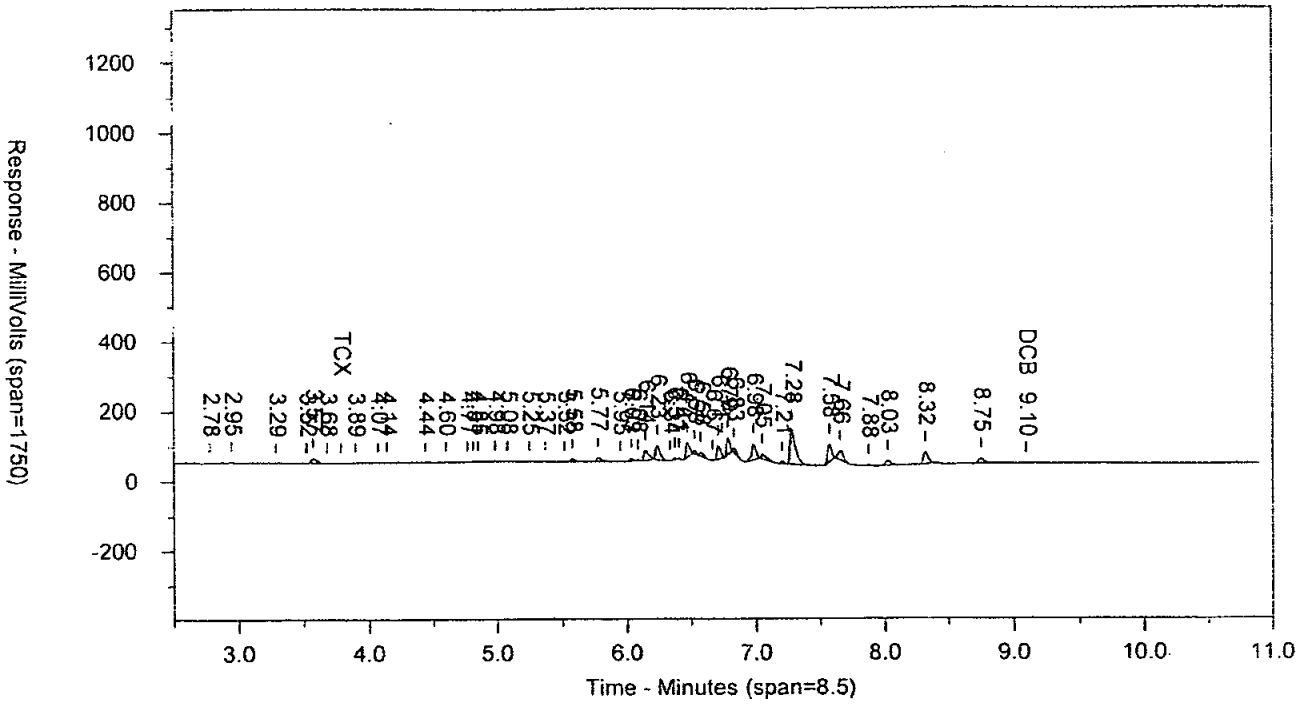

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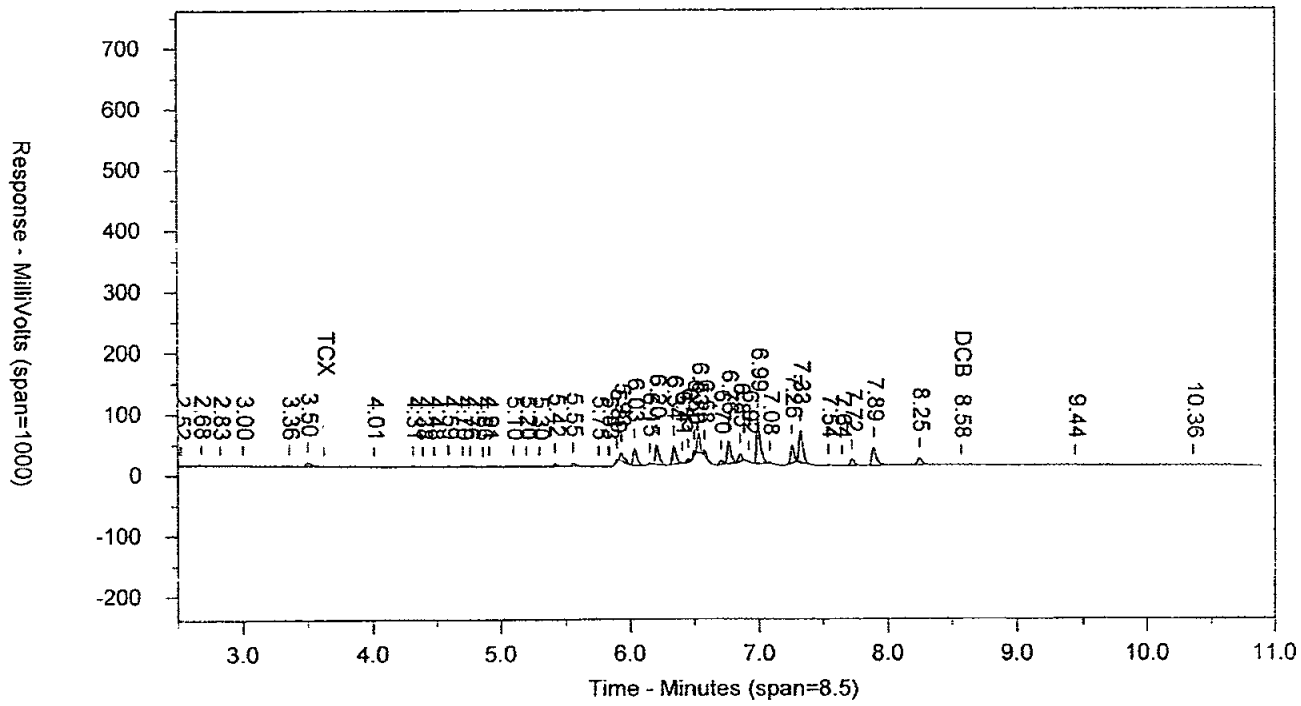

ASX73 1527

LANCASTER LABORATORIES

Sample Number: AR6831224B AAAR683AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 5:32:37 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.022.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.707		1363	4914
2.059		187	413
2.535		195	481
2.776		1454	6305
2.949		3891	18022
3.099		1096	5933
3.287		1422	9686
3.521		687	5949
3.57		11261	36845
3.685		1596	5981
3.822		116	321
3.915		1266	2918
4.097		527	9908
4.431		1393	24654
4.577		1115	8336
4.767		315	1658
4.813		2599	4443
4.927		517	1048
4.985		1228	4636
5.079		257	341
5.121		386	1111
5.251		439	1467
5.374		660	1859
5.467		272	619
5.52		786	1758
5.576		320	331
5.625		1527	4630
5.771		1425	7183
5.946		303	579
6.086		307	789
6.373		11985	40329
6.533		1824	5277
6.638		972	2282
6.707		643	1192
6.789		27934	79228
6.949		497	534
7.003		31642	73430
7.08		6276	11686
7.284		12287	45027
7.574		102960	238039
7.664		89555	228756
7.879		92071	241965
7.992		22352	60756
8.229		1395	5566
8.325		39389	116701
8.519		534	1457
8.6		266	708
8.752		274114	998525
9.101	DCB	67121	237972

ASX73 1528

LANCASTER LABORATORIES

Sample Number: AR6831224B AAAR683AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 5:32:37 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.022.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.543		6592	36029
2.356		413	2258
2.515		195	1069
2.683		686	1582
2.783		767	2717
2.912		95	210
3.044		421	2822
3.231		539	1109
3.359		918	3656
3.502		5130	16757
3.681		550	2542
4.112		403	1295
4.313		155	383
4.39		357	1189
4.521		329	700
4.592		2128	4784
4.703		291	559
4.77		483	1331
4.913		817	3477
5.134		248	978
5.2		1085	2680
5.296		341	824
5.418		247	529
5.456		223	384
5.613		534	3222
5.892		8705	25078
6.041		333	681
6.209		667	3199
6.344		1521	3449
6.453		437	771
6.536		19448	42846
6.64		1560	3707
6.703		327	408
6.764		25032	50654
6.842		5235	9777
6.992		9569	21017
7.087		4428	9401
7.261		87236	149082
7.327		80041	152855
7.542		80315	172335
7.646		18324	38022
7.724		865	1631
7.808		428	916
7.893		32994	80602
8.109		138	461
8.175		108	193
8.253		230894	591263
8.58	DCB	54517	147700
9.435		210	1163
10.357		229	1194

ASX73 1529

AR6831224B AAAR683AA ICAL 1220699999

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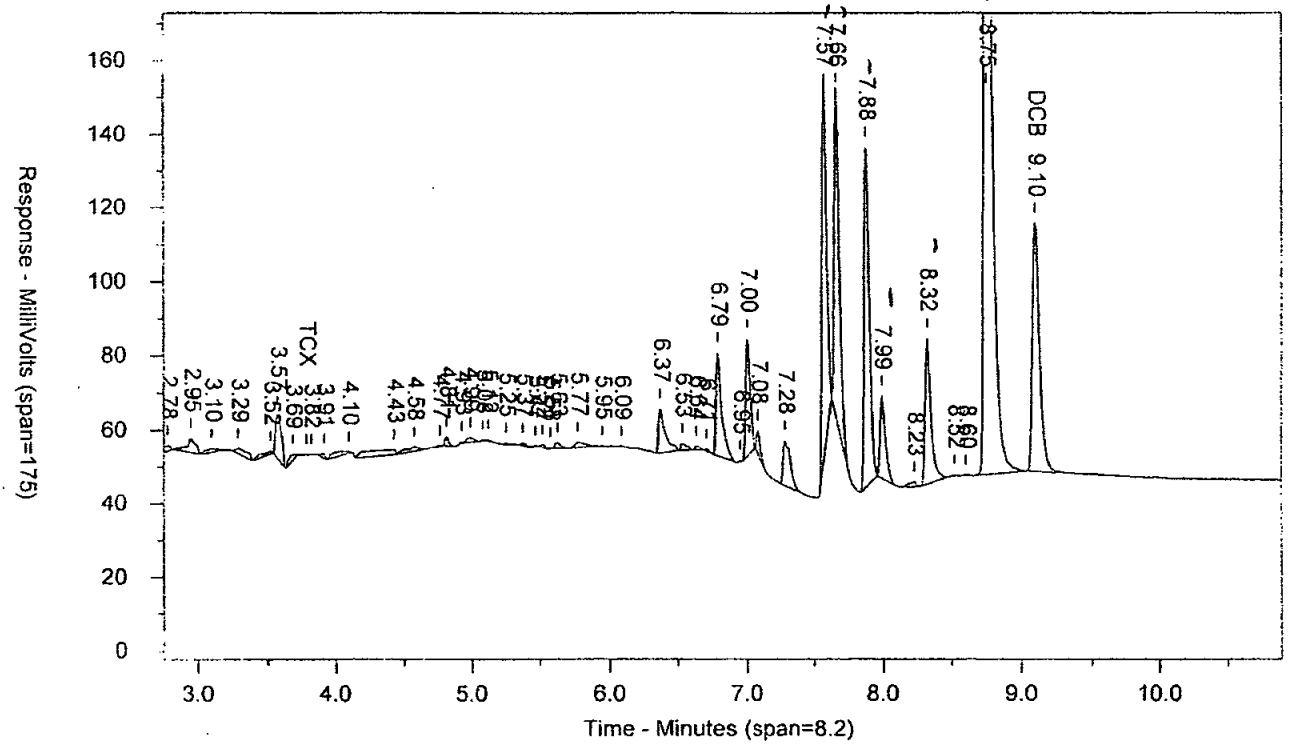

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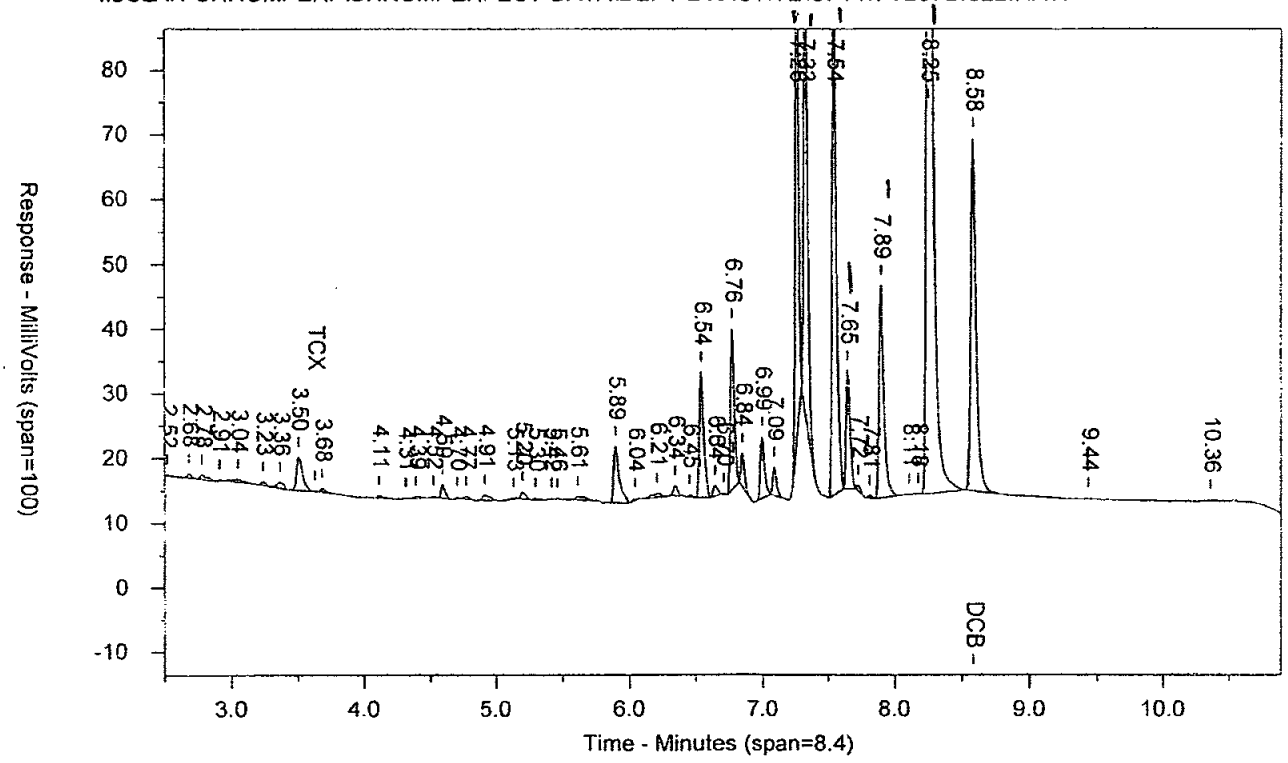

ASX73 1536

LANCASTER LABORATORIES

Sample Number: AR6831224B AAAR683AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 5:32:37 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
9.101	67121	16.681	DCB	8.58	54517	16.552	DCB

Files:
Area File: 1P7207.022.RAW
Area File: 1P7207B.022.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 5:43:03 PM
File Reported On: 7/25/2012 at 5:43:38 PM

AR6831224B AAAR683AA ICAL 1220699999

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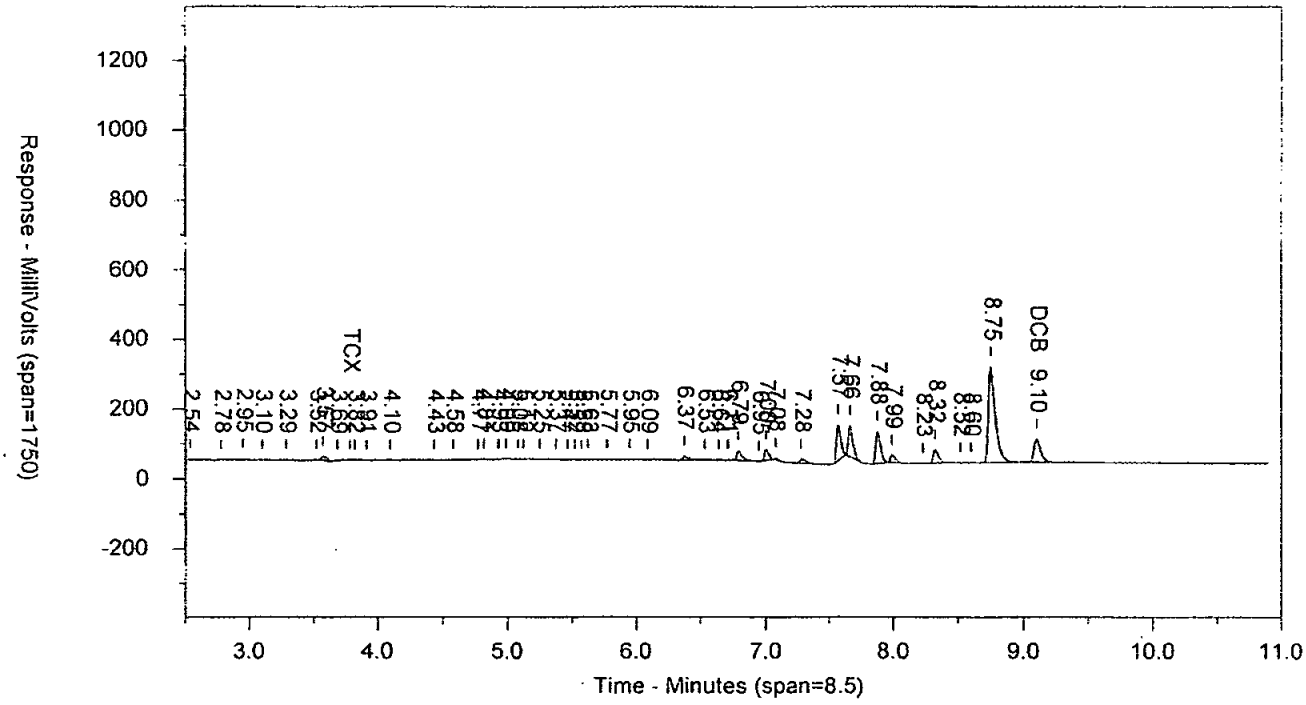

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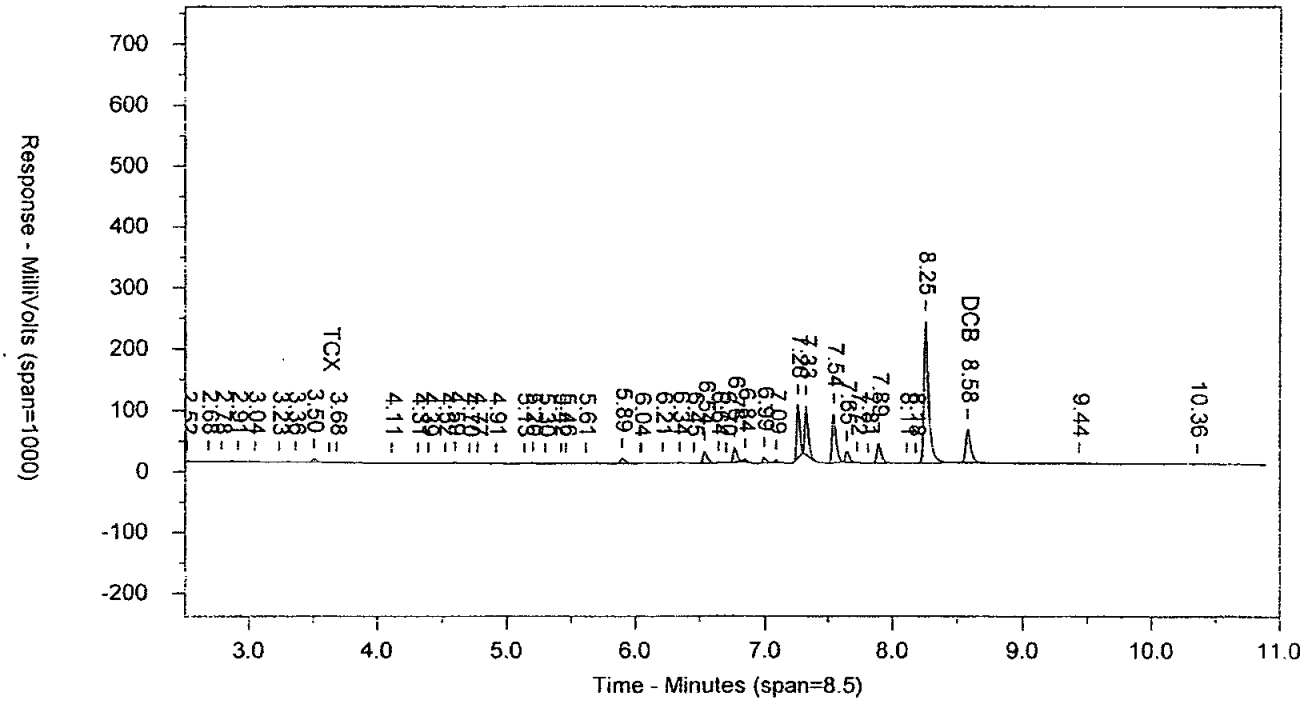

ASX78 1532

LANCASTER LABORATORIES

Sample Number: AR2131224A AAAR213AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 5:47:09 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.023.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.709		914	4666
1.893		347	1505
2.111		1477	15007
2.243		785	3125
2.559		753	4059
2.731		803	5306
2.864		1939	3689
2.948		1730	2671
2.998		740	2515
3.109		429	1561
3.298		15492	36202
3.423		122	275
3.573		9779	28747
3.672		4610	10020
3.788	TCX	320603	681831
3.992		18474	36711
4.069		15349	27432
4.137		44139	95328
4.481		3375	14081
4.559		4162	6130
4.682		392	785
4.772		1250	3016
4.852		4435	8595
4.907		2348	3633
4.987		2613	6853
5.079		652	863
5.249		752	2182
5.371		922	1839
5.52		656	1447
5.577		583	650
5.773		2388	9879
5.946		503	1037
6.013		574	1223
6.087		1157	2257
6.233		403	1116
6.482		1635	7442
6.576		1212	5868
6.712		686	4083
7.028		996	4650
7.88		794	1496
8.752		1131	24682
9.099	DCB	150174	578169
10.725		208	860

ASX73 1533

LANCASTER LABORATORIES

Sample Number: AR2131224A AAAR213AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 5:47:09 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.023.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.535		8799	47809
2.681		528	923
2.735		466	826
2.829		177	391
2.894		272	538
3.05		478	2590
3.201		6942	17240
3.361		355	1316
3.501		3609	8164
3.562		1346	2233
3.63	TCX	143140	283169
3.854		8291	16997
3.938		6718	13207
4.013		20896	44546
4.166		186	425
4.328		1080	3227
4.376		703	1468
4.448		2580	8357
4.59		694	2182
4.701		2415	4814
4.761		1643	3845
4.862		671	947
4.908		324	416
5.093		289	388
5.232		382	571
5.417		844	2199
5.555		457	693
5.605		449	1376
5.836		424	767
5.914		1224	4959
6.04		479	985
6.125		618	1440
6.337		540	4230
6.404		355	788
6.498		363	787
6.642		879	2668
6.986		235	655
7.541		838	1989
7.721		158	636
7.807		107	259
8.252		994	5123
8.577	DCB	122028	344116
9.421		224	1285
10.36		254	1461

ASX73 1534

AR2131224A AAAR213AA ICAL 1220699999

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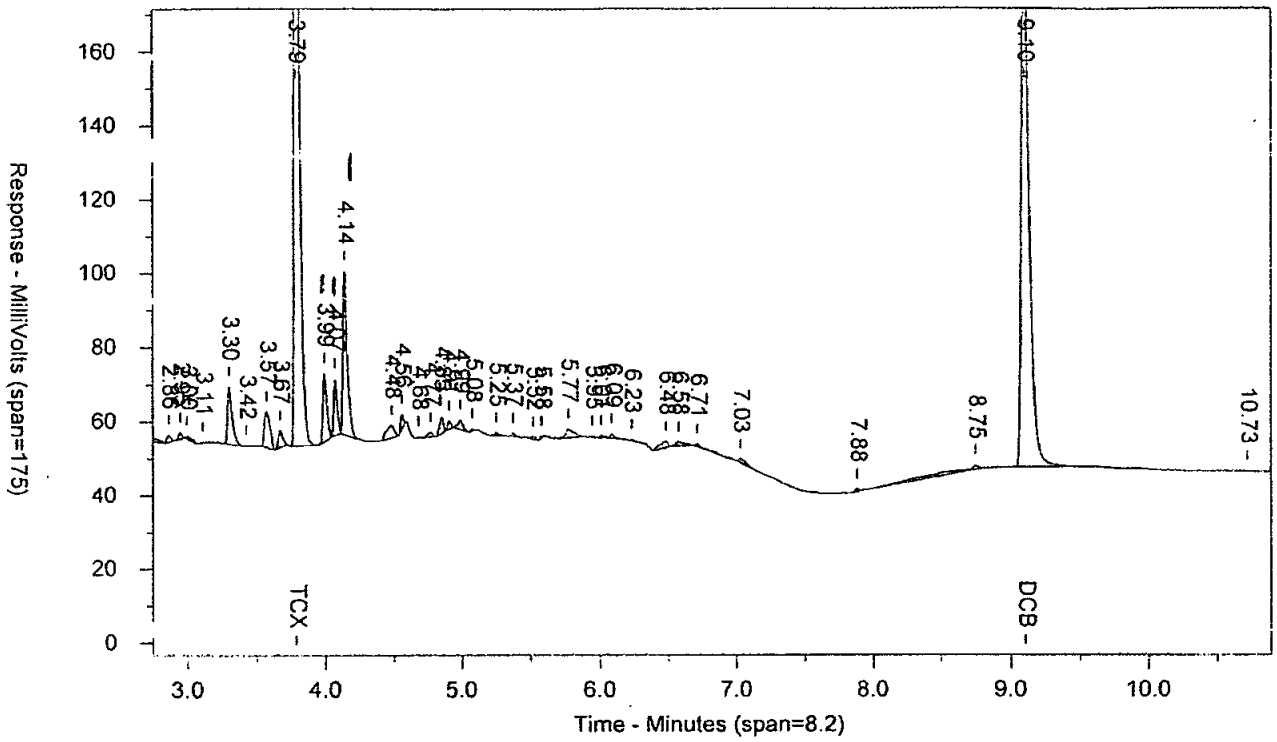

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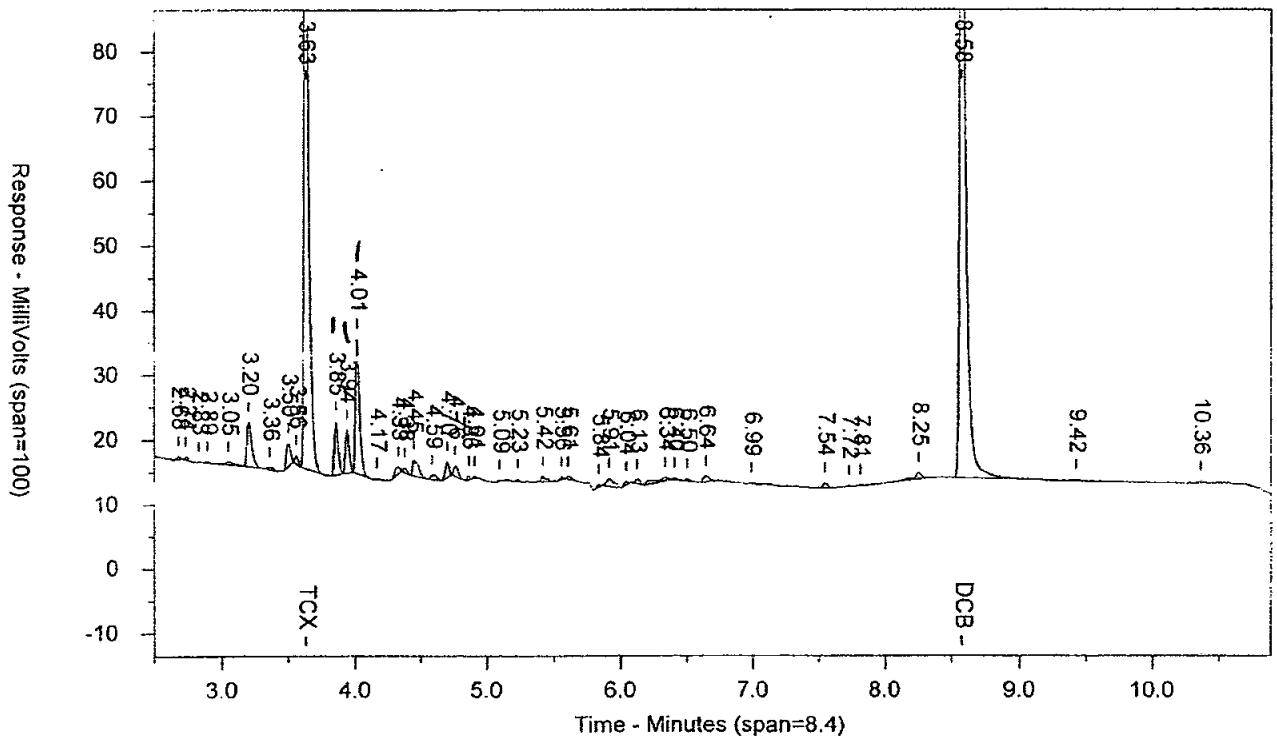

ASX73 1535

LANCASTER LABORATORIES

Sample Number: AR2131224A AAAR213AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 5:47:09 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.788	320603	37.443	TCX	3.63	143140	39.84	TCX
9.099	150174	37.322	DCB	8.577	122028	37.05	DCB

Files:
Area File: 1P7207.023.RAW
Area File: 1P7207B.023.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 5:57:36 PM
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AR2131224A AAAR213AA ICAL 1220699999

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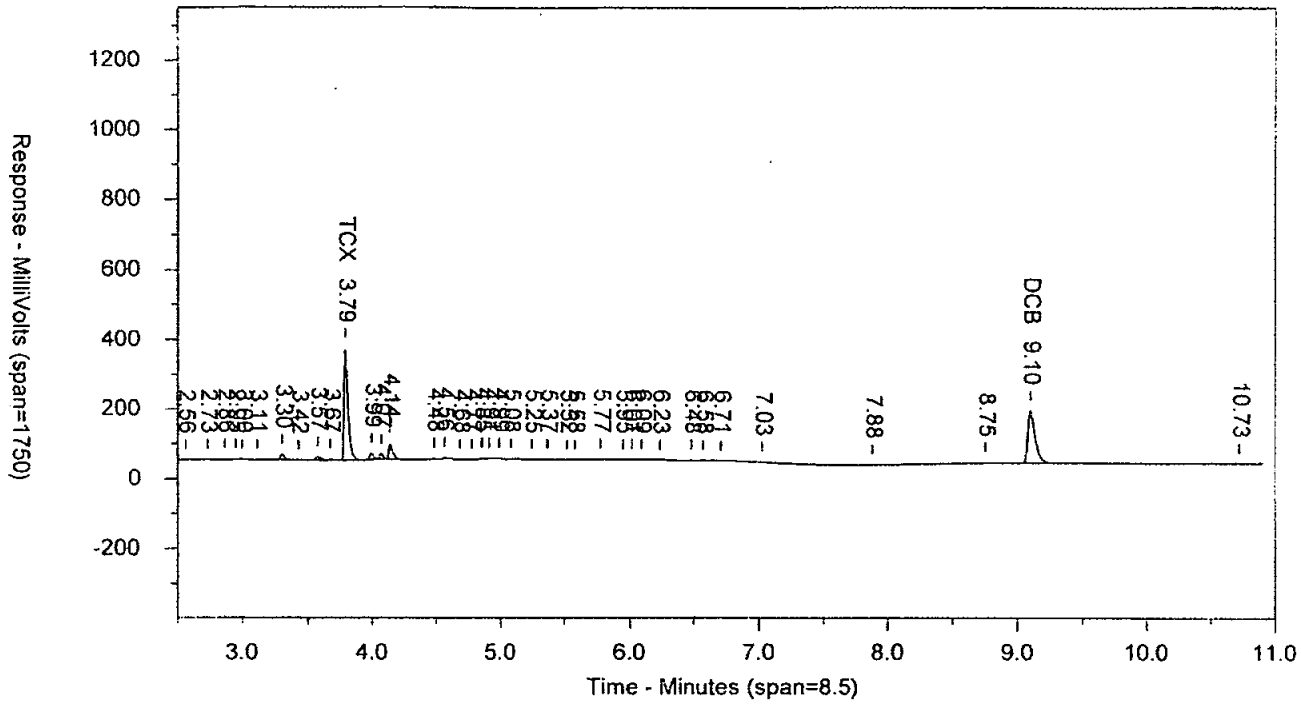

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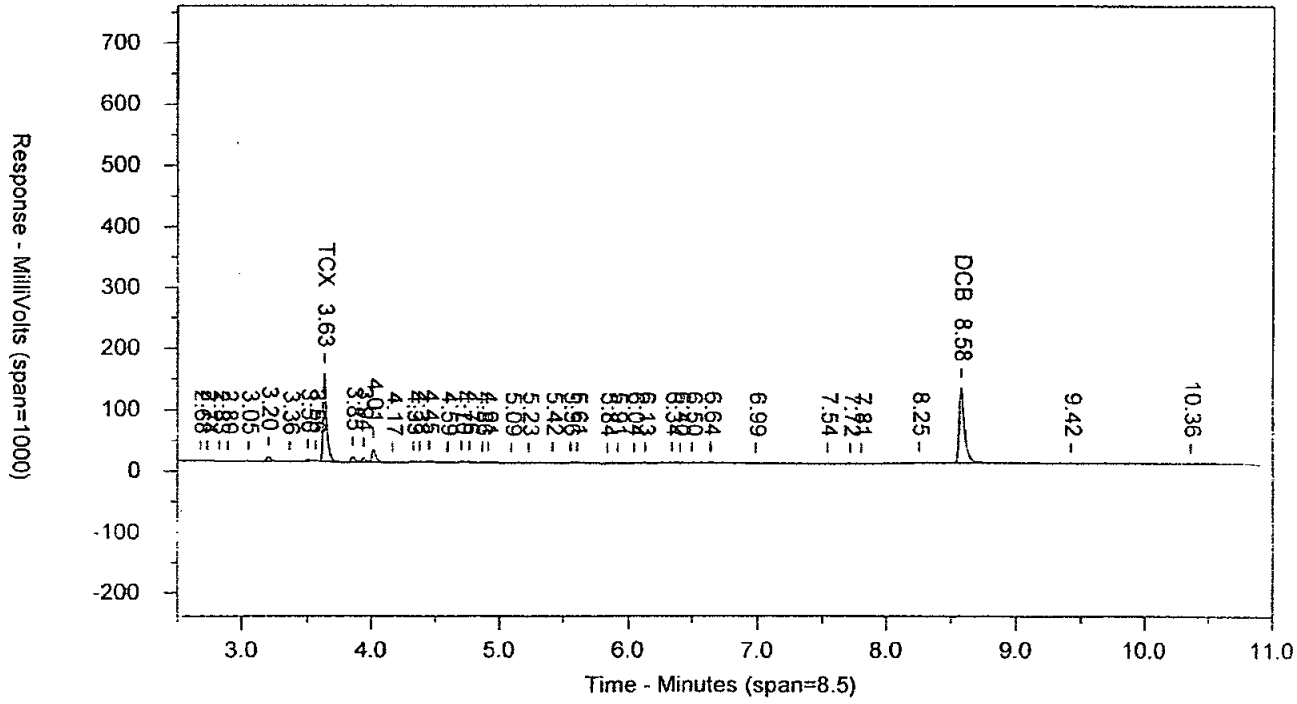

ASX73 1537

LANCASTER LABORATORIES

Sample Number: AR32X1224B AAAR32XAA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 6:01:43 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.024.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.725		612	3312
1.901		273	1152
2.108		519	4675
2.366		542	7310
2.588		565	4413
2.732		531	2589
2.863		1867	3309
2.948		877	1272
2.998		827	2813
3.108		426	1479
3.298		11252	27396
3.441		234	677
3.569		2866	9577
3.671		2955	6326
3.788	TCX	323850	690930
3.992		15417	30968
4.068		14961	26517
4.136		45549	98465
4.267		1821	3484
4.436		6882	8906
4.455		4601	5802
4.556		2765	3163
4.598		18937	36930
4.769		5793	14772
4.851		41052	87115
4.904		16222	26053
4.987		17247	32031
5.079		7043	8855
5.118		9073	26108
5.249		14155	36636
5.319		2177	2135
5.369		12691	22416
5.417		1738	2361
5.529		1131	1445
5.6		6420	14379
5.629		8689	12696
5.768		5059	6463
5.948		1687	3026
6.012		1813	2505
6.048		691	651
6.086		3554	6310
6.19		2289	5640
6.37		9874	26235
6.577		3117	6997
6.638		780	1767
6.712		633	1089
7.578		414	704
7.683		1412	11245
7.878		1689	4901
8.75		1408	85081
9.098	DCB	153376	586344

(5) Jun 2855 25July12

ASX73 1538

LANCASTER LABORATORIES

Sample Number: AR32X1224B AAAR32XAA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 6:01:43 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.024.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.54		10014	57308
2.68		263	440
2.736		525	1026
2.827		160	383
2.893		286	554
3.045		449	2522
3.201		4879	12070
3.36		513	2145
3.499		977	2054
3.563		1147	1997
3.63	TCX	146079	288687
3.854		6996	14353
3.937		6471	12721
4.013		21527	46124
4.17		1077	2399
4.311		14206	42779
4.478		10734	27470
4.594		3427	9986
4.7		22901	45517
4.754		7411	13273
4.863		6995	10087
4.908		2437	2860
4.942		5271	11951
5.099		7024	15104
5.232		6672	13301
5.291		1544	2436
5.389		1267	1595
5.418		4907	5779
5.453		4765	6805
5.554		1350	2059
5.61		3390	5082
5.645		1865	2454
5.755		1296	2552
5.834		1403	2269
5.891		8112	27097
6.037		1653	4278
6.124		1911	3893
6.236		557	2268
6.34		569	1547
6.406		1602	3508
6.497		507	2502
6.648		996	3409
6.759		258	1218
6.888		406	990
7.014		1600	26456
7.393		639	4617
7.542		910	2261
7.72		184	656
7.826		151	418
8.178		217	708
8.252		720	1481
8.43		59	176
8.577	DCB	124573	348190
9.428		212	969

ASX73 1539

10.358	225	1066

ASX73 1549

AR32X1224B AAAR32XAA ICAL 1220699999

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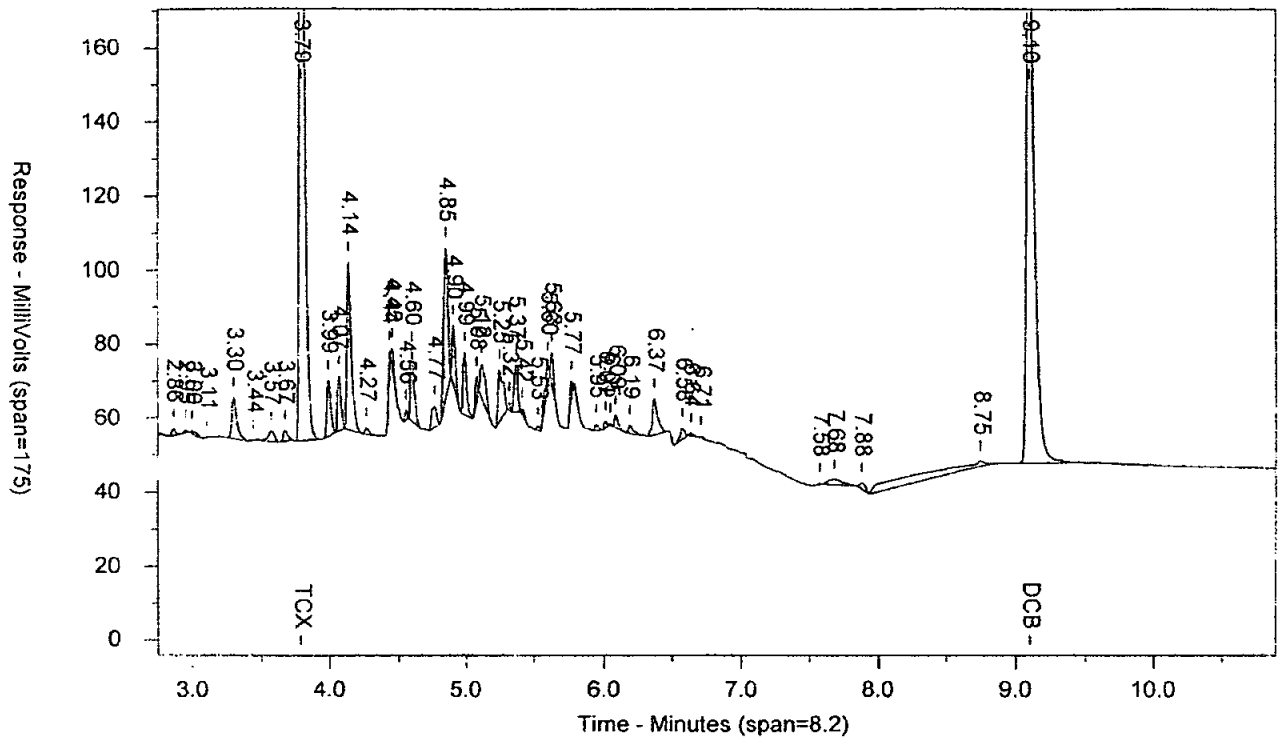

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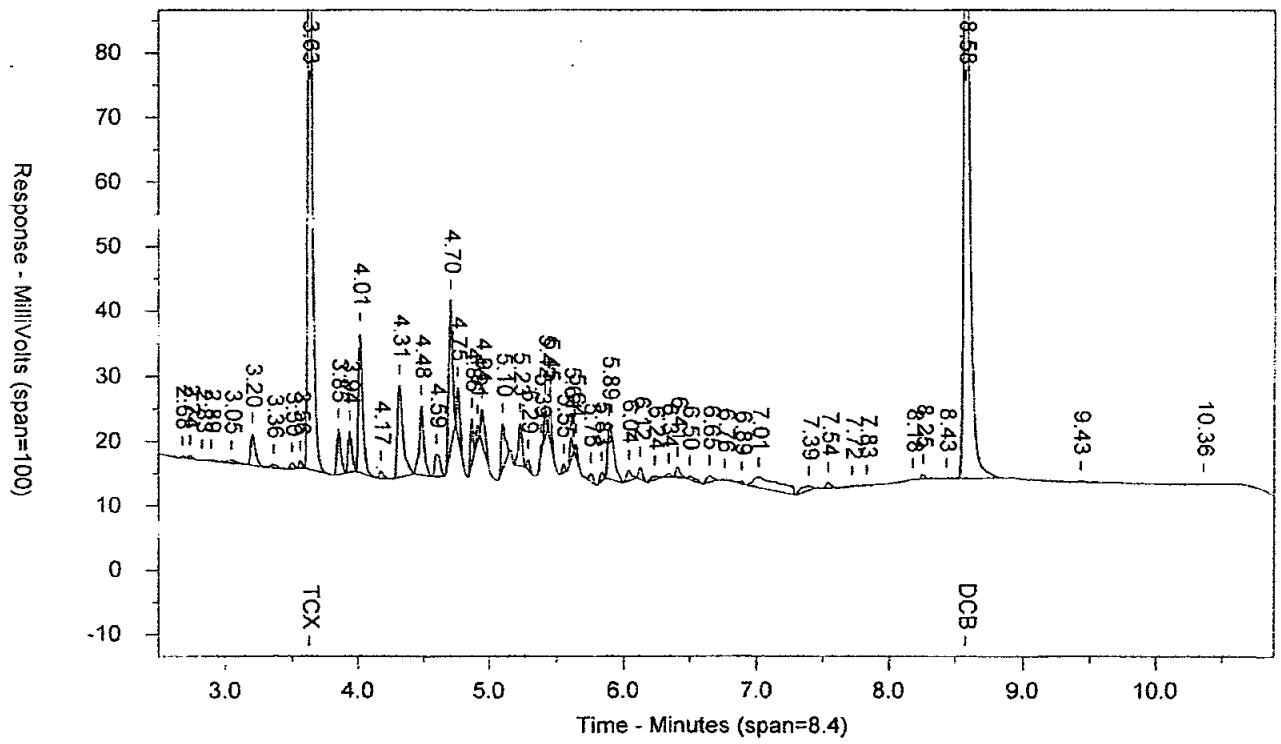

8SX73 1541

LANCASTER LABORATORIES

Sample Number: AR32X1224B AAAR32XAA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 6:01:43 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.788	323850	37.822	TCX	3.63	146079	40.659	TCX
9.098	153376	38.118	DCB	8.577	124573	37.823	DCB

Files:
Area File: 1P7207.024.RAW
Area File: 1P7207B.024.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 6:12:10 PM
File Reported On: 7/25/2012 at 6:12:47 PM

ASX73 1542

AR32X1224B AAAR32XAA ICAL 1220699999

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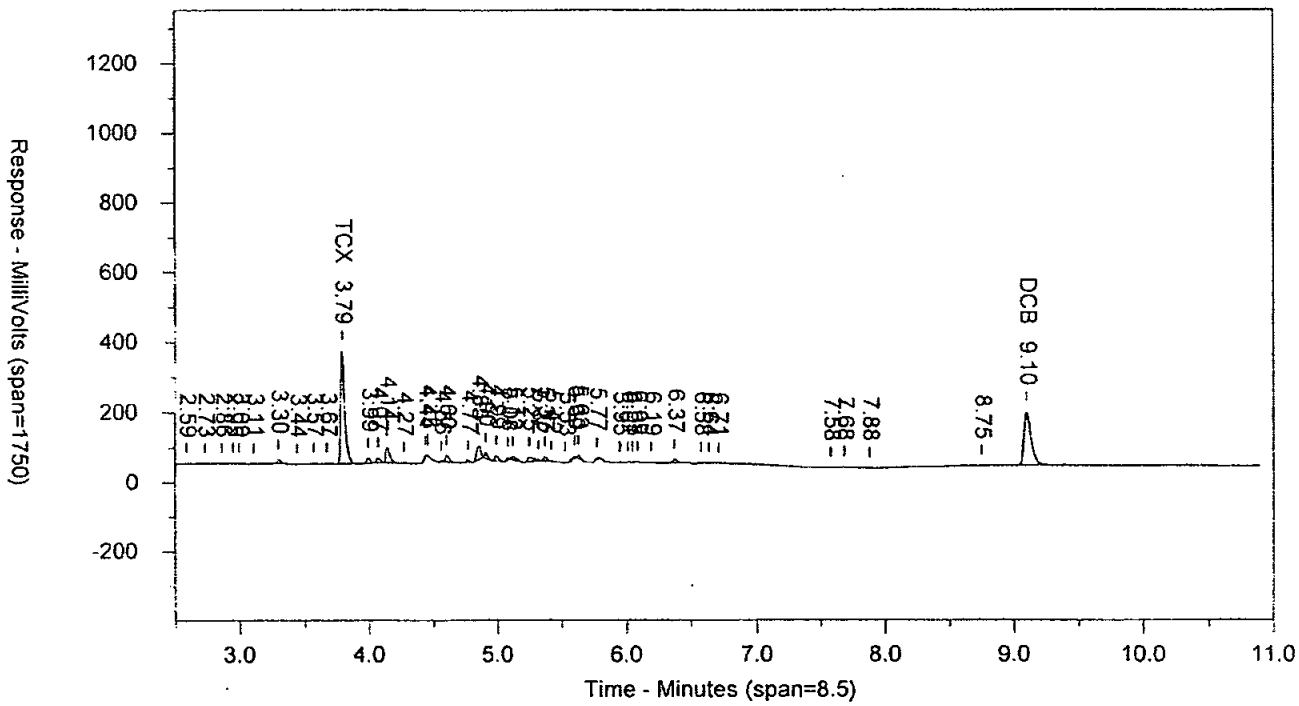

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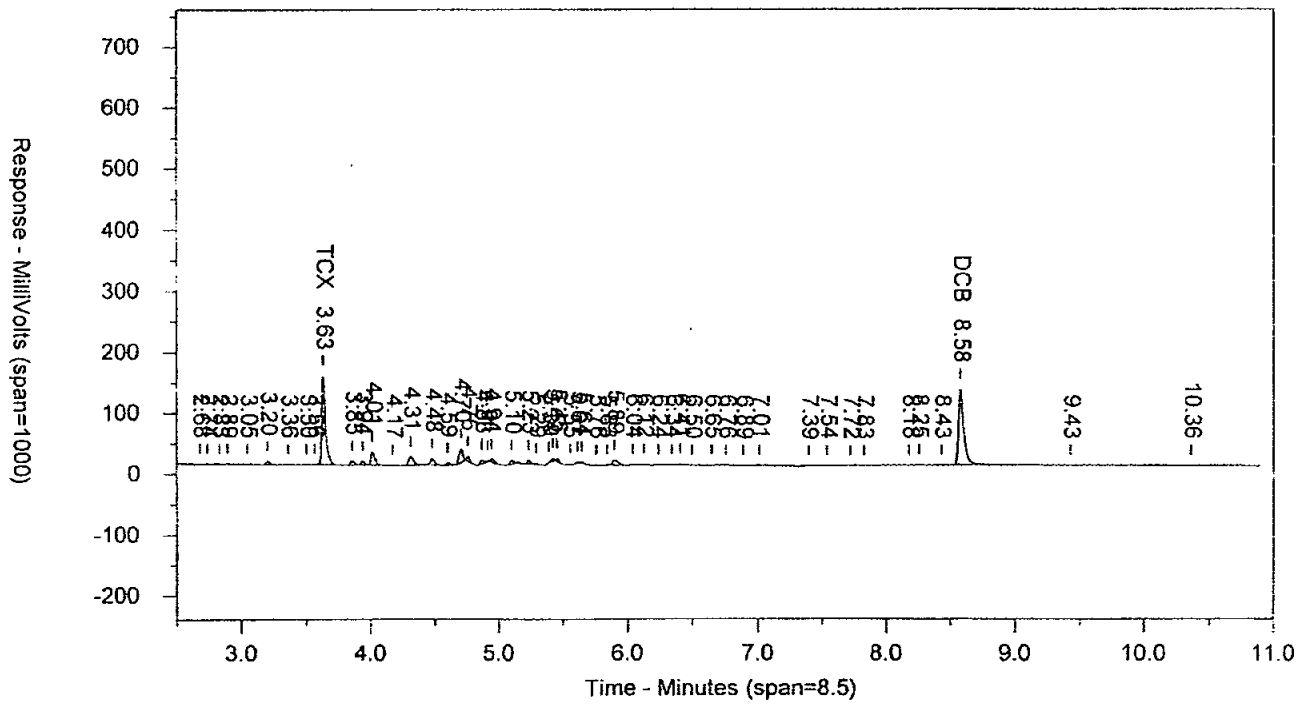

ASX73 1543

LANCASTER LABORATORIES

Sample Number: AR4231224A AAAR423AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 6:16:17 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.025.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.718		667	4094
1.895		376	1712
2.09		571	3560
2.368		176	503
2.553		467	1947
2.644		796	1523
2.733		389	1159
2.861		1866	3589
2.947		790	1165
2.998		769	2463
3.099		338	1148
3.292		917	3520
3.418		521	1118
3.568		2485	9098
3.683		678	2774
3.787	TCX	320915	682673
3.99		4799	9540
4.066		9142	16466
4.136		27347	59030
4.266		3059	6421
4.435		10433	13071
4.453		6954	8295
4.555		1049	1057
4.597		29585	60967
4.768		8264	21709
4.85		60851	129857
4.903 ≠ (5)		22638	36611
4.986		25800	48157
5.078		11953	15546
5.117		15065	43845
5.248		23013	59544
5.317		3444	3406
5.368		20396	36322
5.417		2966	3909
5.529		1686	2068
5.599		11246	25923
5.628		14328	20664
5.767		8440	10651
5.788		4042	5665
5.947		3495	6282
6.011		3598	4968
6.047		1542	1504
6.086		7376	13352
6.189		4222	9892
6.293		611	796
6.368		13081	39382
6.576		5716	10635
6.633		875	1958
6.711		1419	3465
6.955		487	880
7.074		704	7513
7.576		453	806
7.679		1900	15595

(5) JCM 2855 25 July 12

RT A	Compound A	Height A	Area A
7.877		1940	5731
8.749		1371	99945
9.097	DCB	154249	576428

ASX73 1545

LANCASTER LABORATORIES

Sample Number: AR4231224A AAAR423AA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 6:16:17 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.025.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.541		10282	59784
2.093		279	3782
2.579		295	685
2.679		215	327
2.735		523	1078
2.893		260	490
3.047		493	2655
3.356		497	2064
3.498		650	1667
3.63	TCX	145945	286994
3.853		2140	4380
3.935		3751	7531
4.013		12785	27986
4.17		1613	3610
4.31		21277	61124
4.478		15313	34964
4.595		4648	13515
4.7		34718	68213
4.754		10760	19067
4.863		10892	15365
4.908		4274	5021
4.942		8988	20556
5.099		12127	25230
5.232		11094	22000
5.291		2638	3958
5.389		2136	2529
5.418		8620	10072
5.452		7875	11115
5.554		2706	4023
5.609		5663	8555
5.645		3379	4459
5.756		2394	4622
5.834		2770	4389
5.906		10090	35826
6.038		2687	6868
6.124		3975	8214
6.234		591	2185
6.338		673	1634
6.405		3331	7066
6.499		1115	4408
6.648		1071	3661
6.796		369	838
6.889		526	1177
7.025		2074	33673
7.394		816	5117
7.542		886	2197
7.717		171	823
7.825		271	751
8.177		184	741
8.25		701	1383
8.329		210	509
8.577	DCB	125218	345192
8.938		276	959
9.413		204	929

RSX73 1546

9.693	212	899
10.358	283	1701
10.638	564	8545

ASX73 1547

AR4231224A AAAR423AA ICAL 1220699999

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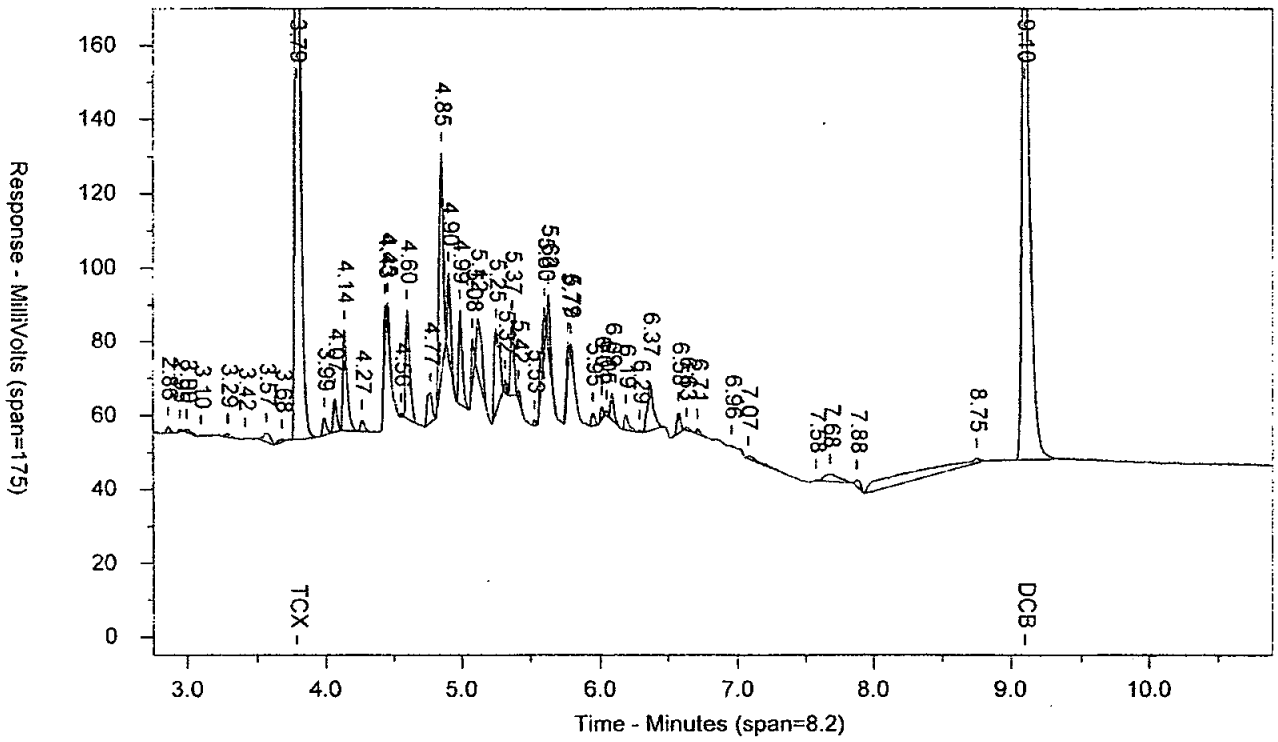

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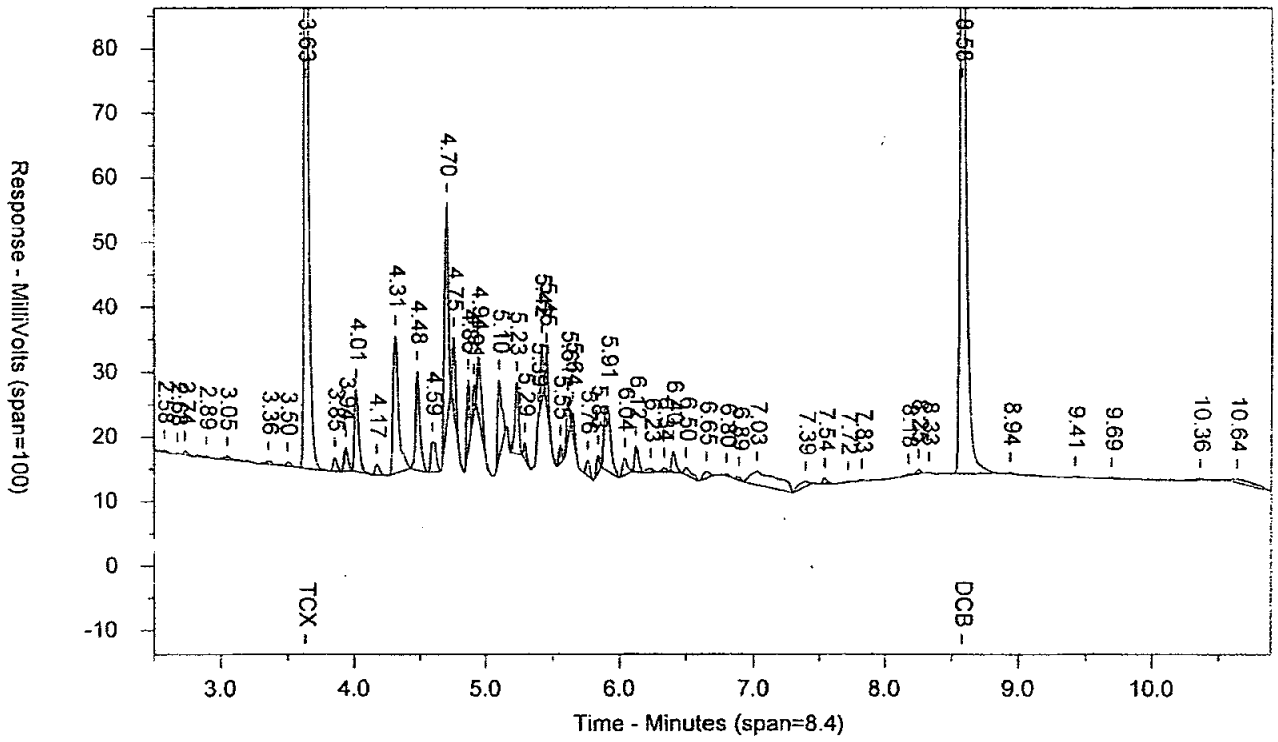

LANCASTER LABORATORIES

Sample Number: AR4231224A AAAR423AA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 6:16:17 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.787	320915	37.479	TCX	3.63	145945	40.621	TCX
9.097	154249	38.335	DCB	8.577	125218	38.018	DCB

Files:
Area File: 1P7207.025.RAW
Area File: 1P7207B.025.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 6:26:44 PM
File Reported On: 7/25/2012 at 6:27:17 PM

AR4231224A AAAR423AA ICAL 1220699999

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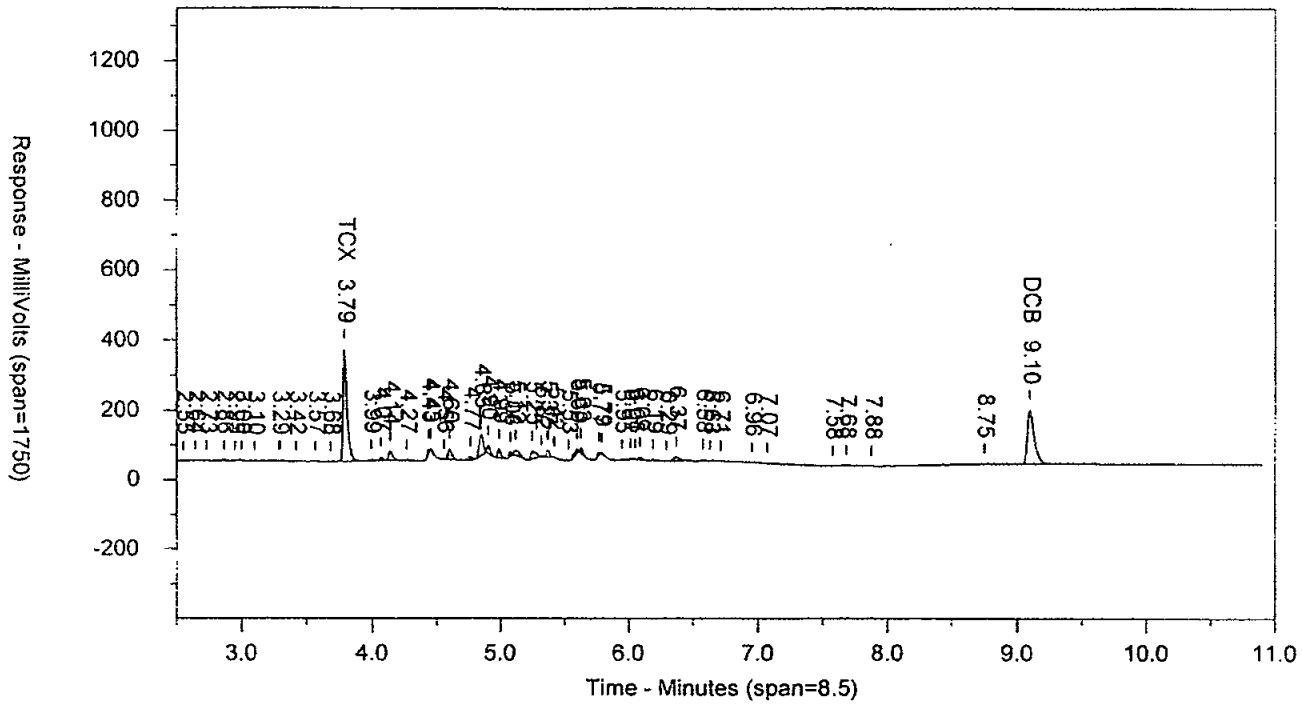

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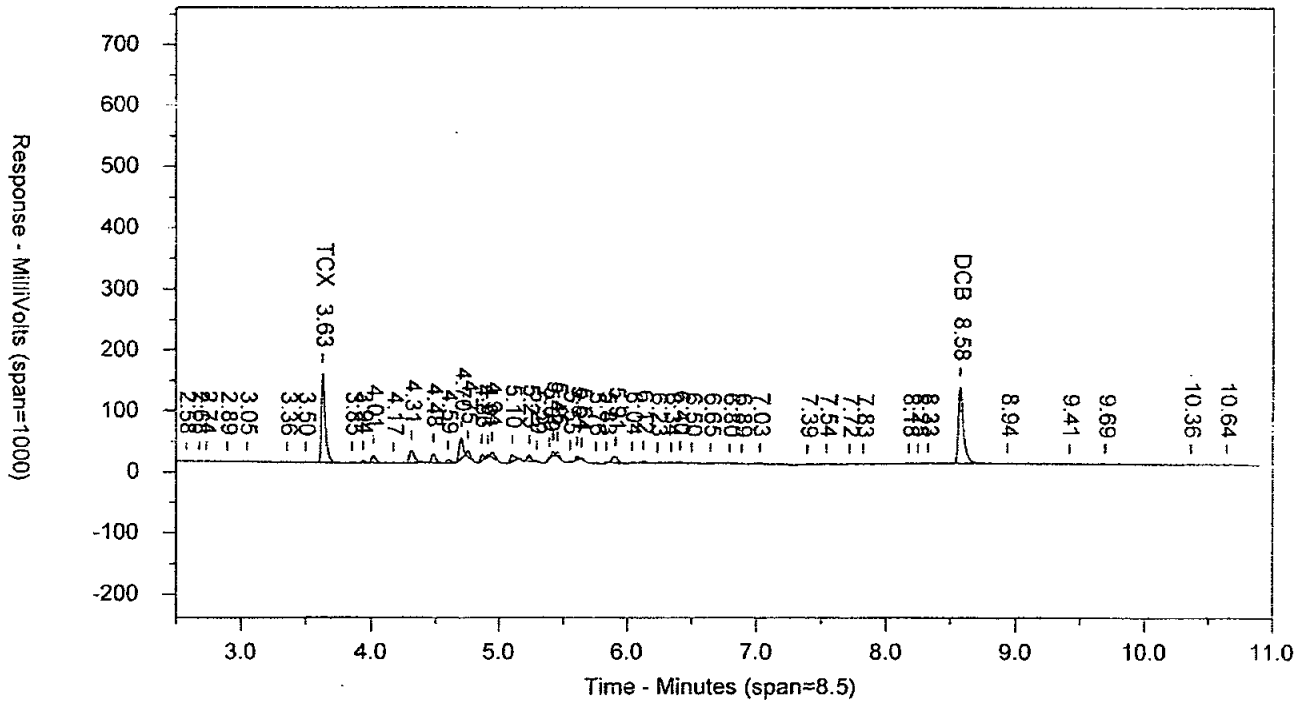

LANCASTER LABORATORIES

Sample Number: AR16XX1224B AAAR16XAA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 6:33:20 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.026.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.718		599	1747
2.071		217	1581
2.618		427	1388
2.866		388	664
2.951		1447	2541
3.296		957	3204
3.574		4297	16101
3.792	TCX	77097	152540
3.994		5585	11158
4.073		6936	12189
4.14		32143	69678
4.271		3902	8220
4.439		12281	16115
4.458		8116	9520
4.557		1247	1225
4.602		35551	75352
4.704		589	714
4.771		9432	25441
4.854		71426	152676
4.907		26864	44444
4.99		30643	57247
5.082		13493	17139
5.121		16991	50699
5.251		27255	70693
5.321		4231	4137
5.371		22866	40541
5.421		3568	4895
5.579		3247	3746
5.602		3461	3355
5.631		3592	4781
5.771		2966	11865
6.473		1331	8707
6.578		362	1516
8.232		298	2656
8.759		367	13276
9.104	DCB	38395	135536

ASX73 1551

LANCASTER LABORATORIES

Sample Number: AR16XX1224B AAAR16XAA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 6:33:20 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.026.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.531		39765	207139
2.682		666	2338
3.36		470	1574
3.502		1573	5042
3.632	TCX	29935	63464
3.854		2448	5029
3.94		3122	6158
4.015		14987	32748
4.172		1881	4348
4.312		24553	70001
4.48		18425	42749
4.609		5194	14836
4.701		41152	80570
4.755		12890	21992
4.865		13311	18751
4.909		5122	5682
4.943		10531	23810
5.101		14312	29975
5.233		12472	24214
5.293		3106	4823
5.419		5281	9888
5.627		910	4843
5.89		854	6336
6.13		670	5220
6.348		242	3588
6.644		376	1311
7.324		209	969
7.545		278	1222
8.179		209	777
8.256		107	190
8.581	DCB	31117	89780
9.44		138	532
10.362		271	1555

ASX73 1552

AR16XX1224B AAAR16XAA ICAL 1220699999

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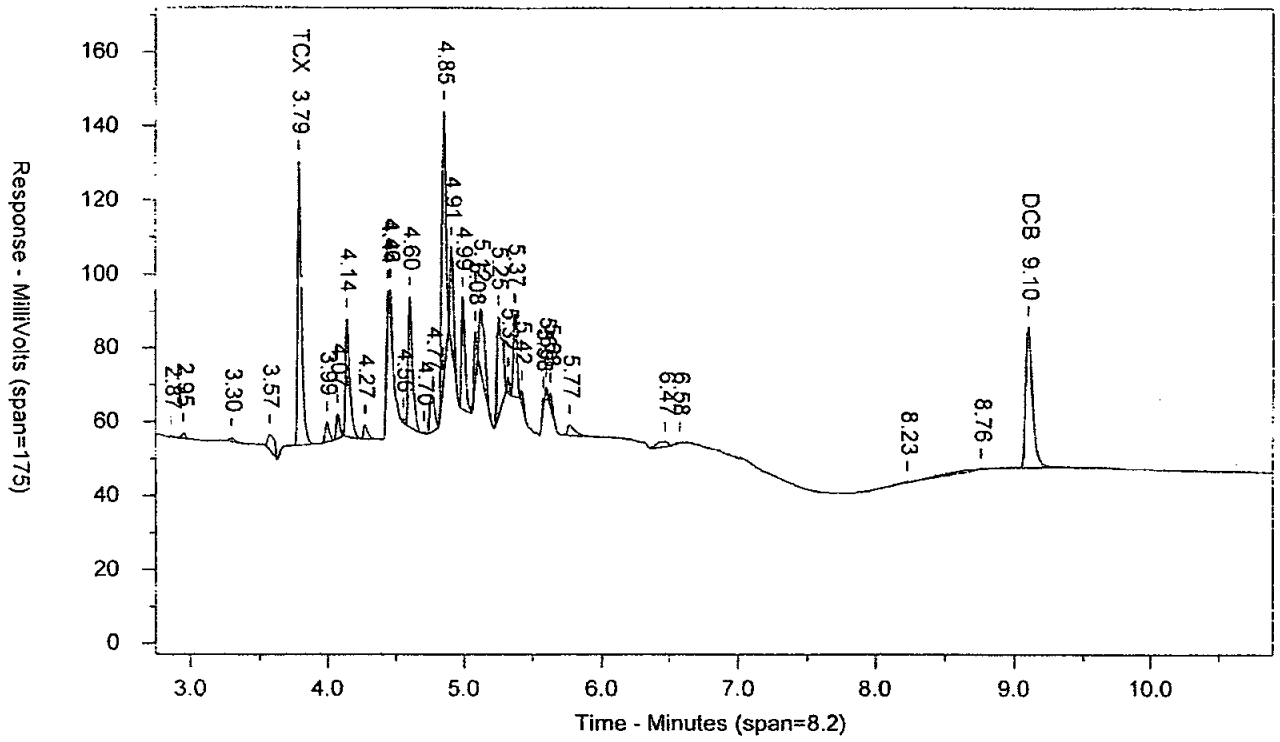

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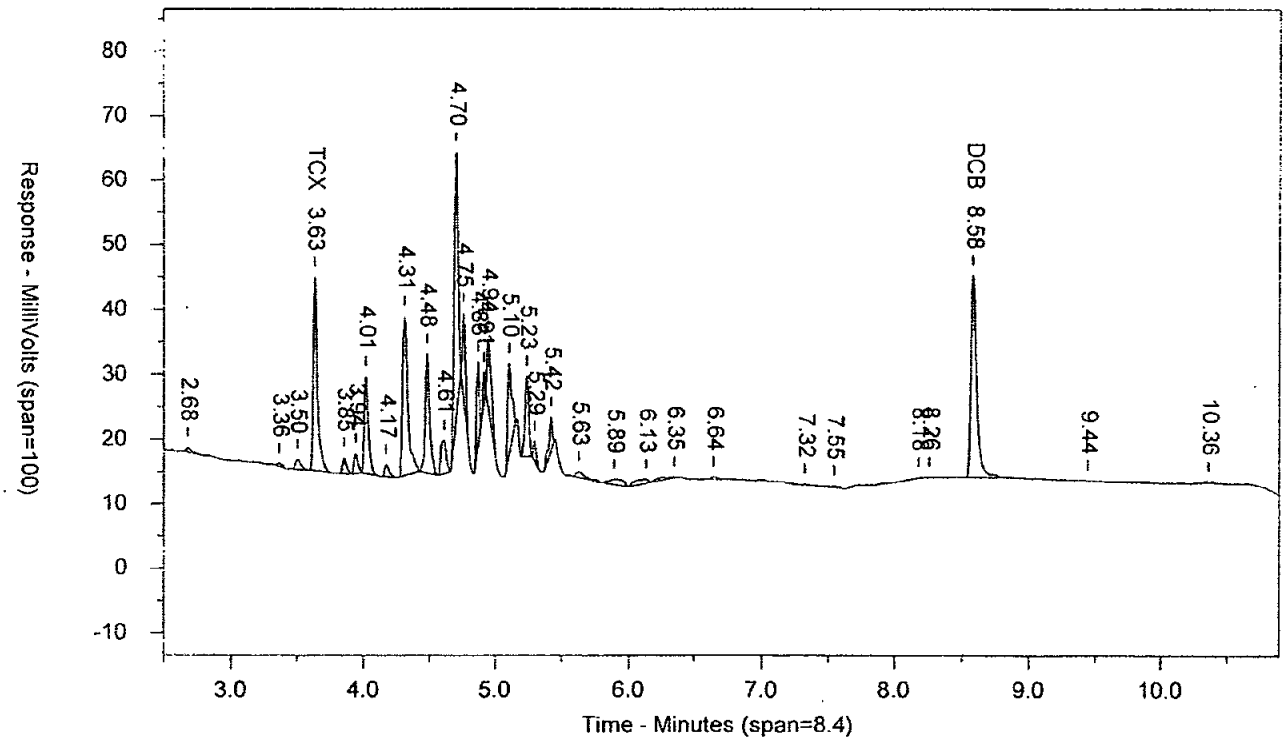

ASX73 153

LANCASTER LABORATORIES

Sample Number: AR16XX1224B AAAR16XAA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 6:33:20 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.792	77097	9.004	TCX	3.632	29935	8.332	TCX
9.104	38395	9.542	DCB	8.581	31117	9.448	DCB

Files:
Area File: 1P7207.026.RAW
Area File: 1P7207B.026.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 6:43:47 PM
File Reported On: 7/25/2012 at 6:44:20 PM

ASX73 1554

AR16XX1224B AAAR16XAA ICAL 1220699999

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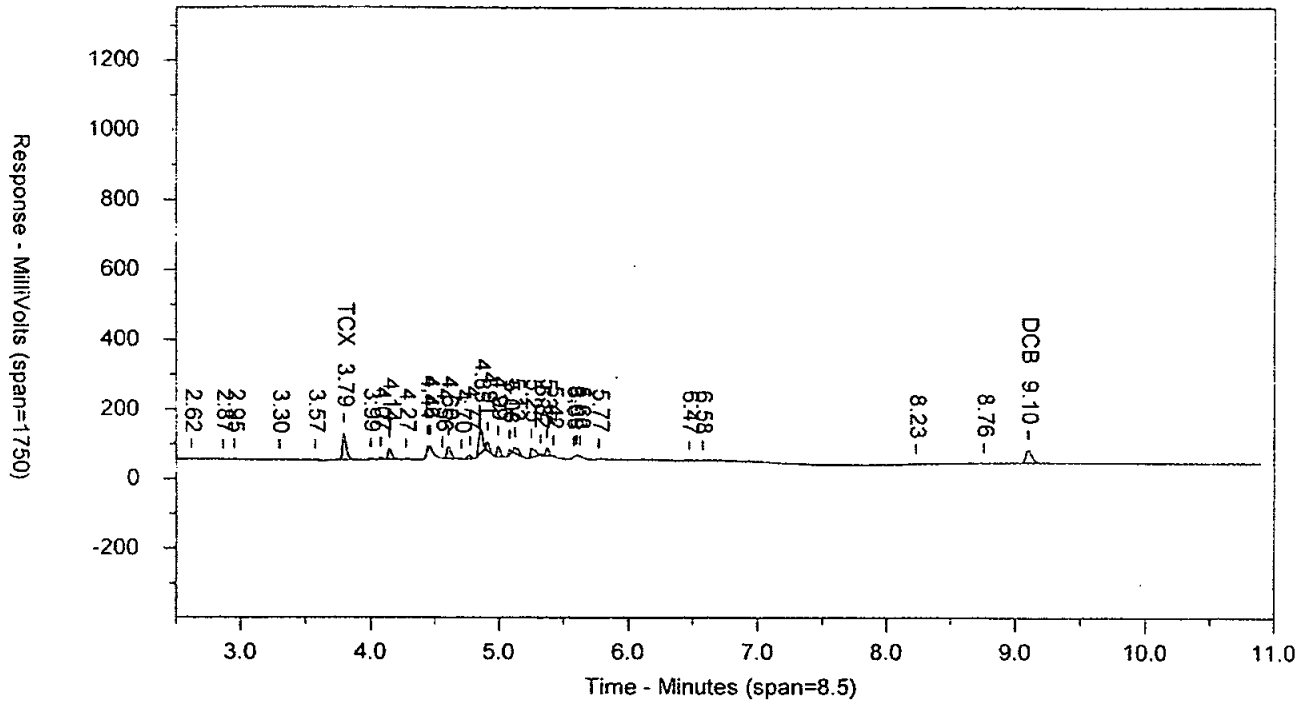

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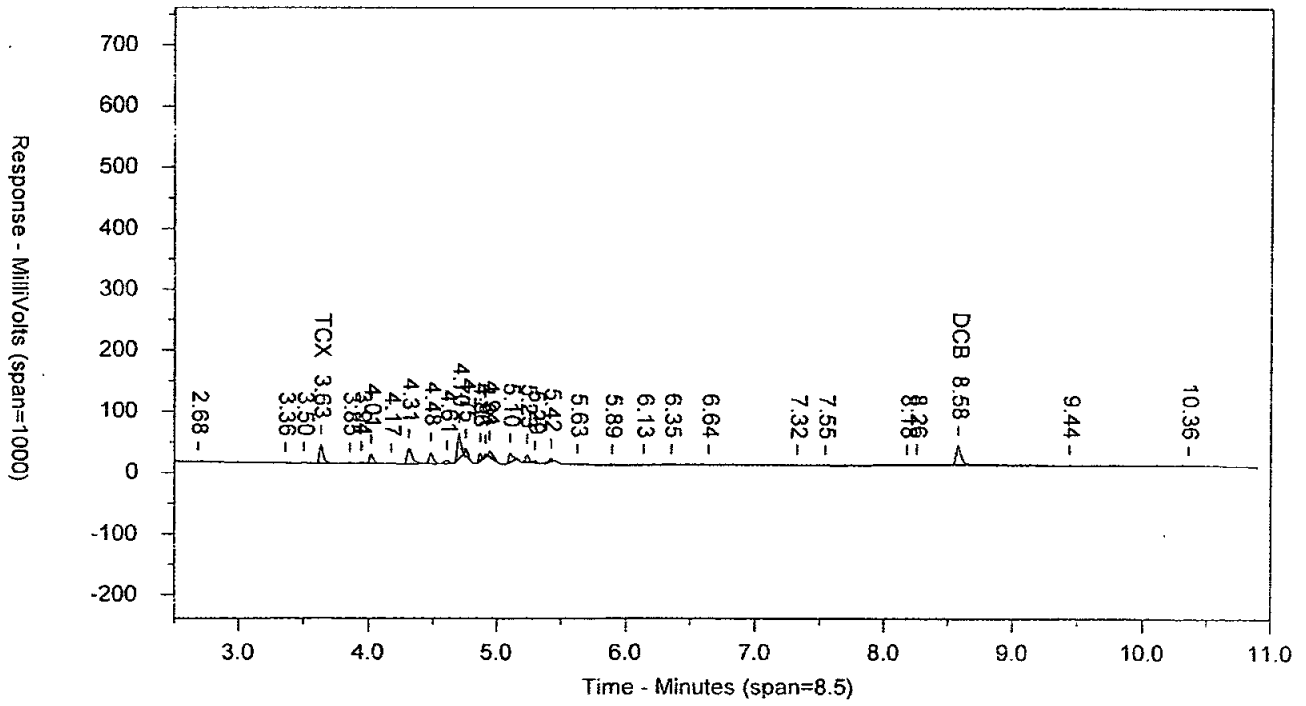


ASX73 155

LANCASTER LABORATORIES

Sample Number: MD16X1224B AAMD16XAA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 6:48:05 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.027.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.708		920	2490
1.809		293	1088
2.001		321	862
2.097		442	2787
2.727		273	932
2.948		2152	9193
3.283		748	3689
3.486		240	1181
3.572		5035	15579
3.789	TCX	8079	15185
3.994		288	532
4.069		407	660
4.138		2059	5286
4.268		210	384
4.455		2178	7415
4.597		2811	7845
4.768		698	1876
4.851		3661	7632
4.907		1638	2632
4.987		2125	4667
5.078		927	1203
5.118		1031	2879
5.248		1572	3978
5.368		1299	2431
5.515		576	1403
5.576		1410	2594
5.774		2235	8518
6.031		534	1104
6.085		562	861
6.145		1477	4141
6.235		3415	10676
6.419		579	1186
6.473		3713	8257
6.576		1285	2717
6.713		3994	8237
6.786		1598	2466
6.834		787	1326
6.981		2191	4988
7.05		958	2832
7.283		4525	11038
7.578		2065	3893
7.657		564	1393
8.325		951	2754
8.752		476	5214
9.099	DCB	4411	15972

ASX73 1556

LANCASTER LABORATORIES

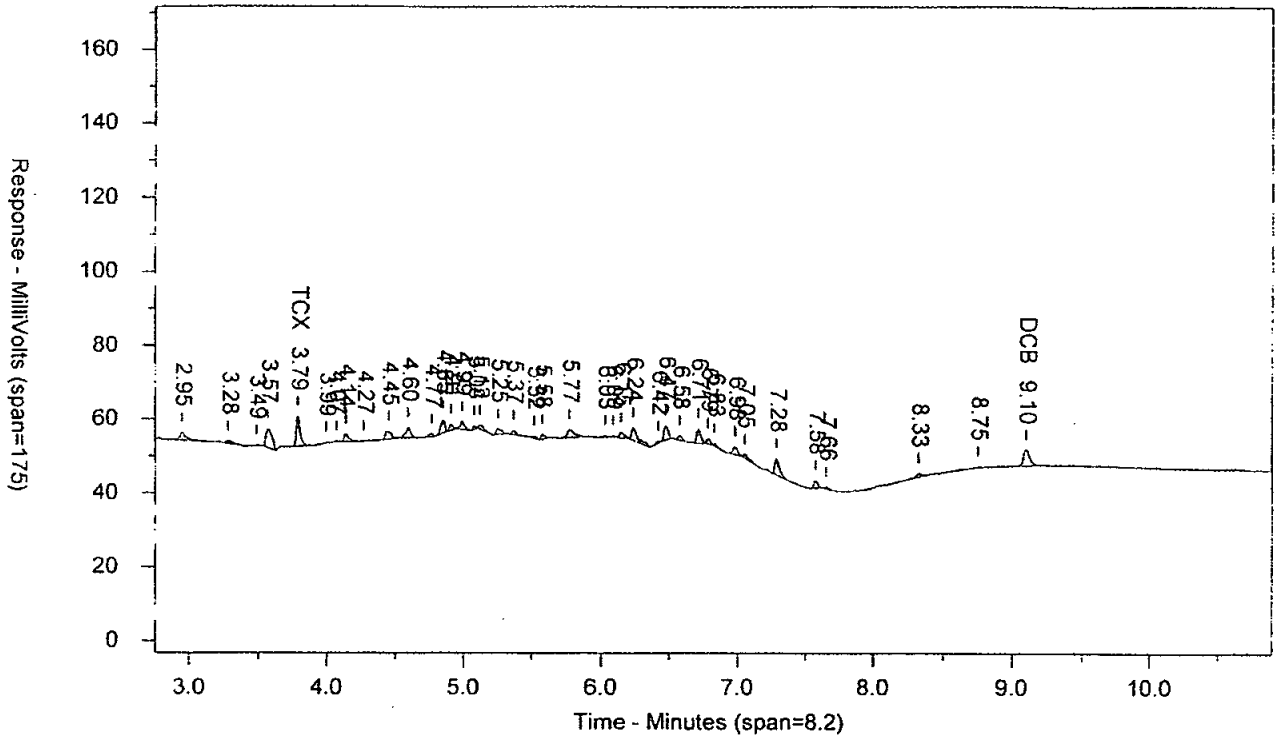
Sample Number: MD16X1224B AAMD16XAA ICAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 6:48:05 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 1P7207B.027.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.533		34728	188808
2.681		409	1116
2.831		183	550
3.023		458	3619
3.359		413	1455
3.5		2179	6228
3.629	TCX	2809	5952
3.935		172	353
4.013		854	1826
4.311		1415	3471
4.384		706	1809
4.478		926	2111
4.591		894	2226
4.7		2211	4504
4.756		961	2097
4.862		674	962
4.909		357	461
5.098		818	1747
5.229		712	1353
5.296		298	674
5.416		897	2157
5.554		815	2141
5.83		143	243
5.926		1601	6596
6.033		2332	5366
6.146		407	732
6.206		2693	6246
6.339		2146	4470
6.45		344	453
6.498		1334	1910
6.578		388	567
6.704		133	189
6.764		1486	3319
6.854		594	894
6.991		3568	7974
7.26		615	1083
7.324		2295	5356
7.723		416	1006
7.893		804	1842
8.181		184	660
8.253		230	468
8.58	DCB	3311	8939
9.438		162	695
10.357		237	1482

ASX73 1557

MD16X1224B AAMD16XAA ICAL 1220699999

—— \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1P7207.027.RAW



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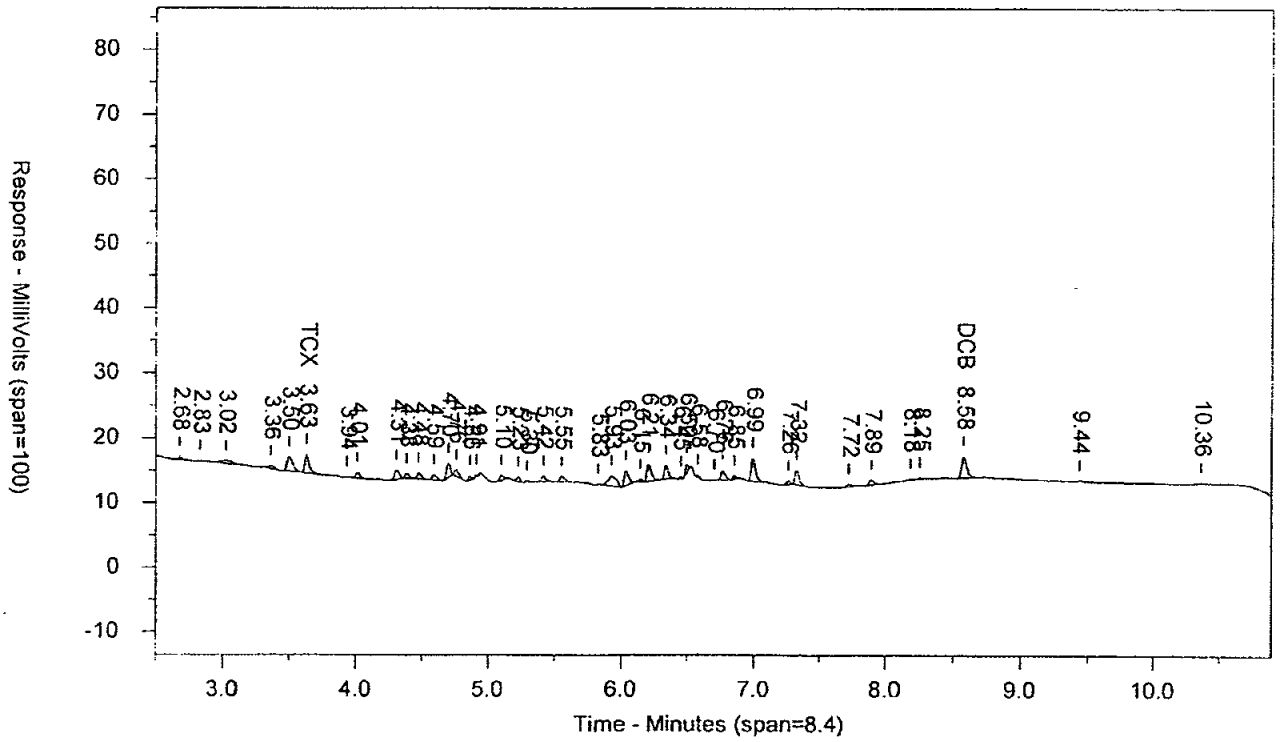

ASX73 1558

LANCASTER LABORATORIES

Sample Number: MD16X1224B AAMD16XAA ICAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 6:48:05 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.789	8079	.944	TCX	3.629	2809	.782	TCX
9.099	4411	1.096	DCB	8.58	3311	1.005	DCB

Files:
Area File: 1P7207.027.RAW
Area File: 1P7207B.027.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 6:58:31 PM
File Reported On: 7/25/2012 at 6:59:06 PM

ASX73 1599

MD16X1224B AAMD16XAA ICAL 1220699999

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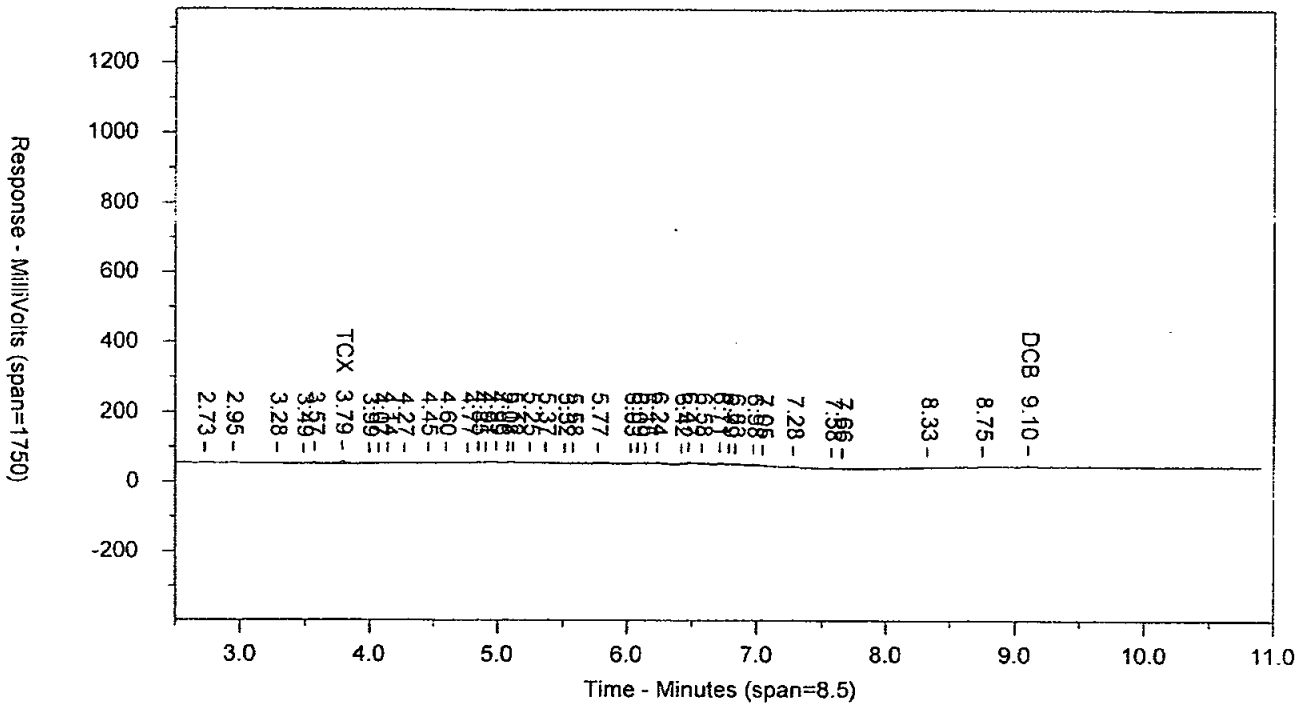

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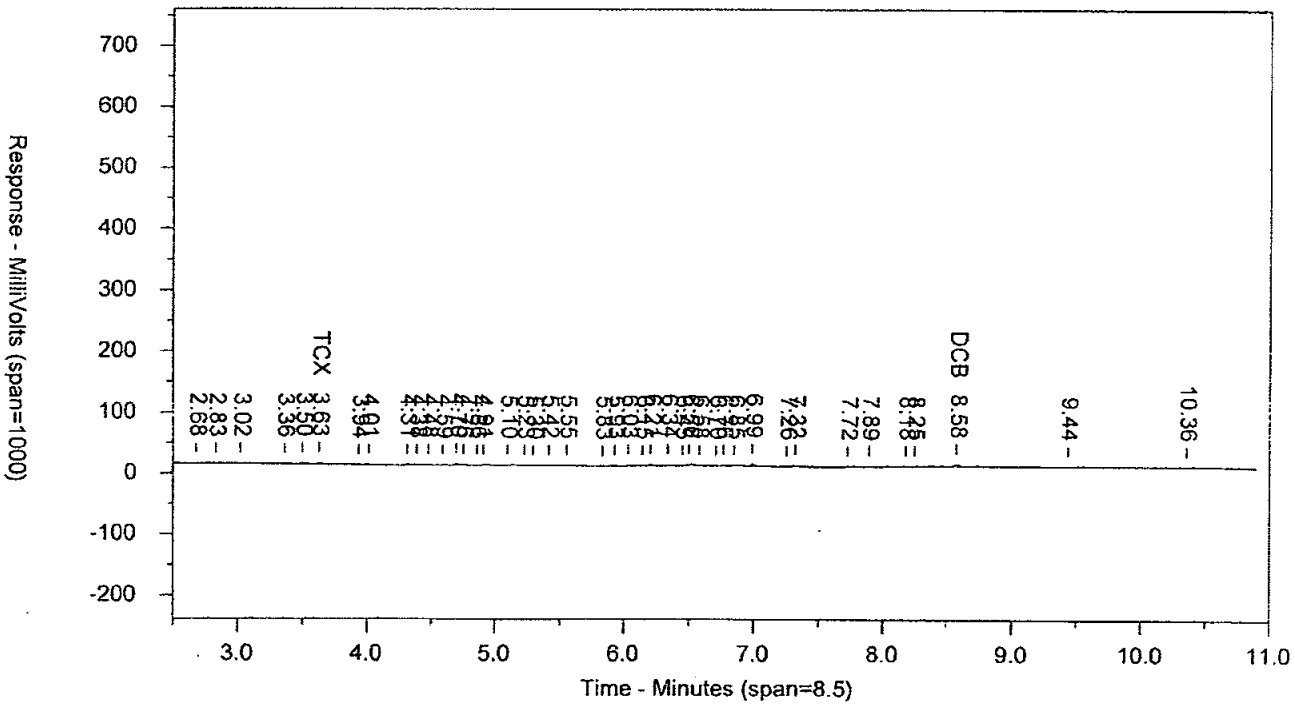

ASX73 1560

LANCASTER LABORATORIES

Sample Number: IC16X1224B AAIC16XAA CCAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 7:02:47 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.028.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.717		587	1734
1.814		916	3268
2.003		573	1786
2.096		708	3786
2.781		1432	7615
2.862		1797	3119
2.947		1706	2755
3.293		1173	4867
3.564		8210	45300
3.688		1937	7952
3.787	TCX	327403	700552
3.99		5856	11741
4.067		10366	18437
4.136		34472	74769
4.267		4297	9251
4.435		14208	16744
4.454		9123	11661
4.553		1295	1238
4.598		40264	84435
4.768		11227	29198
4.85		80407	173821
4.903		29715	48948
4.987		34316	64832
5.078		16122	20905
5.117		19222	56941
5.248		30275	78456
5.317		4080	4008
5.366		20681	36381
5.416		2742	3483
5.526		714	900
5.576		25250	80556
5.719		2330	3343
5.773		27665	71339
5.948		903	1490
6.029		10740	22965
6.086		11122	16999
6.146		25580	72718
6.234		54295	130076
6.34		5915	10152
6.409		8475	14185
6.471		64673	205059
6.576		23118	48036
6.669		2844	3190
6.712		67726	146676
6.785		26521	40689
6.834		13899	22684
6.98		40847	97642
7.051		13491	21093
7.097		5458	7894
7.208		10608	19602
7.282		83273	228482
7.578		38363	75465
7.657		10353	25774

ASX78 1561

RT A	Compound A	Height A	Area A
7.878		2495	5973
8.027		8537	25531
8.323		19270	50664
8.413		624	1102
8.75		8464	28383
9.099	DCB	158588	599130
9.973		156	481

ASX73 1562

LANCASTER LABORATORIES

Sample Number: IC16X1224B AAIC16XAA CCAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 7:02:47 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.028.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.532		27773	150613
2.529		384	2137
2.68		423	724
2.735		527	1076
2.828		158	362
2.892		206	418
3.008		361	2209
3.356		847	4479
3.5		2601	8202
3.629	TCX	149498	293789
3.853		2631	5368
3.935		4401	8852
4.012		16107	35168
4.17		2093	4764
4.31		28129	80204
4.478		20730	47320
4.594		6505	19026
4.699		46421	91013
4.752		14223	24694
4.863		14924	21160
4.907		6166	6928
4.941		11600	26342
5.099		16252	34028
5.23		11538	22674
5.291		2505	3905
5.417		15421	36512
5.502		1059	1354
5.554		15008	35615
5.754		735	1475
5.833		2771	4781
5.925		23716	84282
6.031		35779	73259
6.15		6761	11880
6.205		43192	89443
6.339		38600	73475
6.405		1856	2072
6.451		6618	8390
6.497		25537	32191
6.528		12101	14804
6.578		8935	12542
6.707		4117	7484
6.765		27822	59127
6.854		11307	16264
6.894		1682	1510
6.99		64503	135786
7.261		12187	21152
7.325		43783	95875
7.541		1922	3687
7.604		529	685
7.725		6606	15802
7.891		16594	43177
8.253		6598	17671
8.578	DCB	128056	364201
9.426		172	754

ASX73 1563

10.363	176	1707

ASX73 1564

IC16X1224B AAIC16XAA CCAL 1220699999

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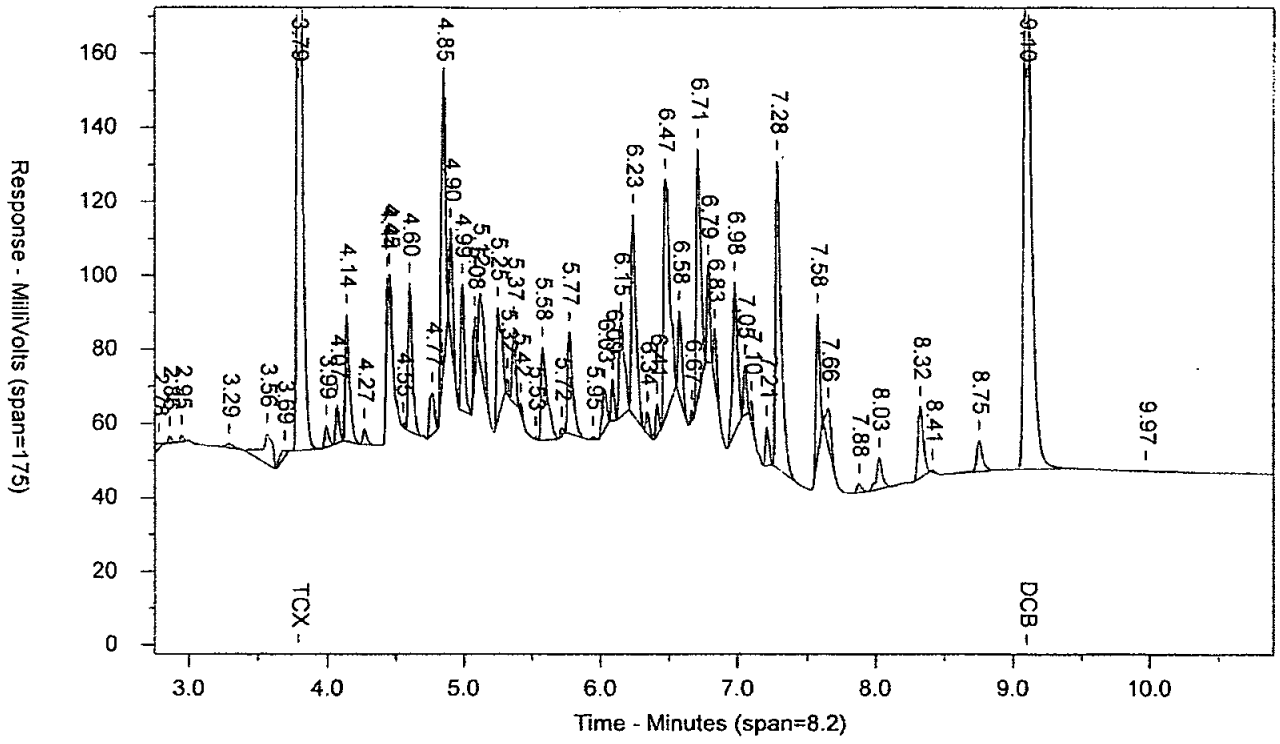

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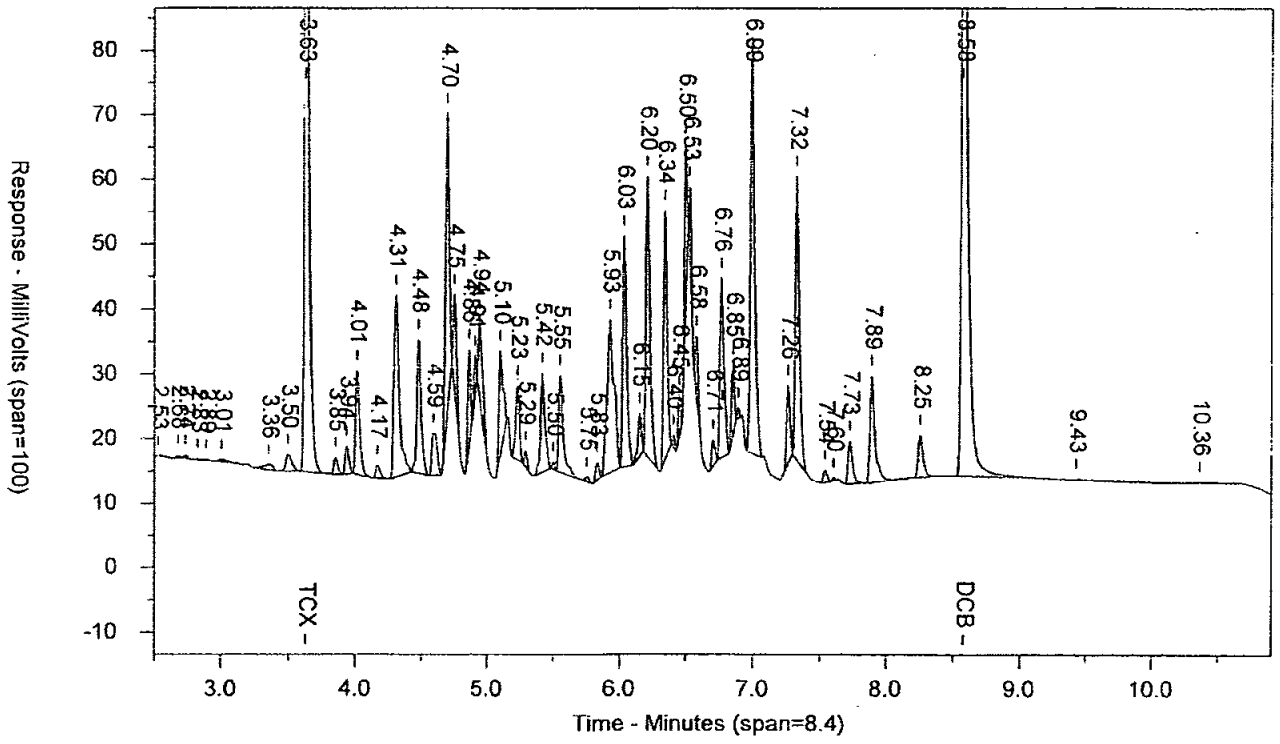

ASX78 1565

LANCASTER LABORATORIES

Sample Number: IC16X1224B AAIC16XAA CCAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 7:02:47 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.787	327403	38.237	TCX	3.629	149498	41.61	TCX
9.099	158588	39.413	DCB	8.578	128056	38.88	DCB

Files:
Area File: 1P7207.028.RAW
Area File: 1P7207B.028.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 7:13:14 PM
File Reported On: 7/25/2012 at 7:13:48 PM

ASX73 1566

IC16X1224B AAIC16XAA CCAL 1220699999

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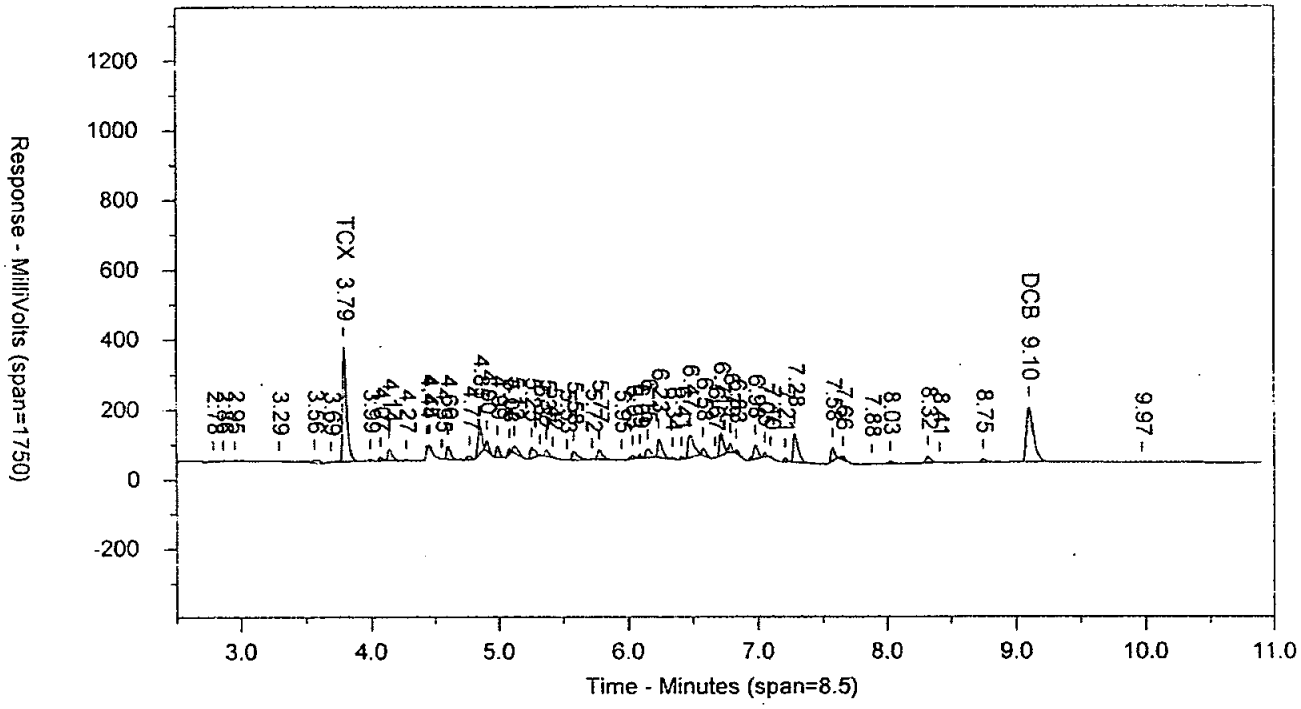

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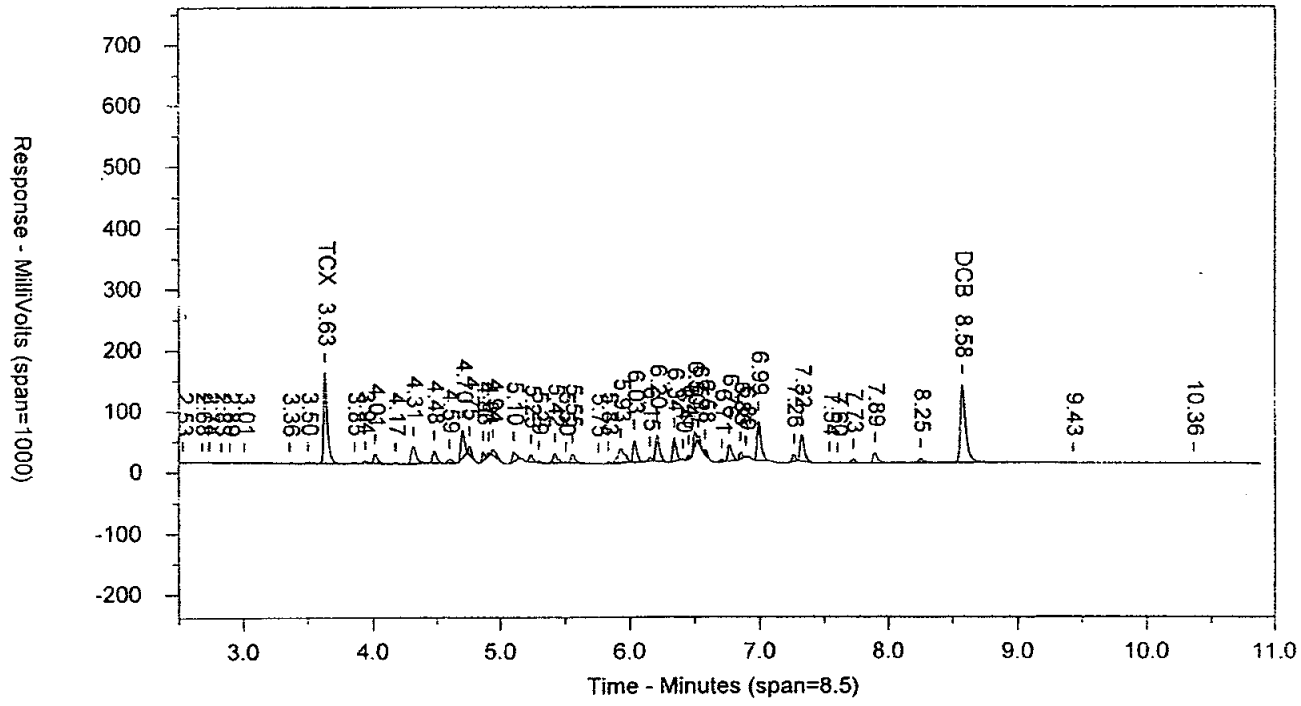

ASX78 1567

LANCASTER LABORATORIES

Sample Number: IC54X1224A AAIC54XAA CCAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 7:31:44 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.030.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.724		1178	4491
1.816		891	4389
2.005		200	468
2.108		270	751
2.774		459	1994
2.864		1784	3291
2.95		461	635
3		660	1244
3.292		580	1882
3.789	TCX	313435	669759
4.065		4442	7889
4.139		599	1294
4.246		649	1034
4.438		733	1843
4.601		698	1305
4.684		502	768
4.772		520	1578
4.859		1779	4274
4.913		415	640
4.988		1250	3288
5.08		39383	129972
5.249		22316	53455
5.369		7047	11823
5.531		1195	1656
5.578		58729	249292
5.721		9551	12953
5.773		59874	97728
5.812		10216	14706
5.894		2109	2583
5.95		22522	40325
6.014		41603	90948
6.087		77907	159671
6.189		7956	9991
6.238		26256	65579
6.344		62124	150499
6.488		43376	130009
6.578		43355	84563
6.666		3158	4441
6.715		65606	192105
6.834		977	1710
6.964		20239	55506
7.051		1138	1606
7.1		1155	1681
7.209		10196	20834
7.284		6660	13325
7.582		6140	19028
7.882		981	2333
8.753		1352	29578
9.101	DCB	153671	575638

ASX73 1568

LANCASTER LABORATORIES

Sample Number: IC54X1224A AAIC54XAA CCAL 1220699999 Injection Volume: 1 ul
Injected On: 7/25/2012 7:31:44 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.030.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.539		10434	61816
2.738		569	1257
2.833		160	380
3.046		511	4205
3.632	TCX	143859	278336
3.932		1601	3078
4.014		255	501
4.094		221	407
4.314		591	1650
4.48		355	895
4.578		245	728
4.701		835	1715
4.91		21604	65794
5.1		12240	29882
5.233		3863	6917
5.293		537	770
5.349		407	555
5.419		44250	89431
5.502		4862	6573
5.555		31472	44558
5.599		9904	33595
5.71		1745	2255
5.758		14676	28031
5.835		26141	39121
5.881		1363	1197
5.915		53055	108596
6.036		26711	57840
6.125		37022	79075
6.207		22744	47344
6.339		23007	42049
6.406		19248	28300
6.446		2398	2619
6.501		43556	113123
6.662		543	847
6.724		1624	2315
6.8		12510	27994
6.896		580	1132
6.987		9731	31460
7.325		5165	12691
7.543		764	1496
7.724		244	666
7.894		178	314
8.194		405	1439
8.253		679	1352
8.579	DCB	123594	352748
9.438		356	1449
10.378		1072	30653

ASX73 1569

IC54X1224A AAIC54XAA CCAL 1220699999

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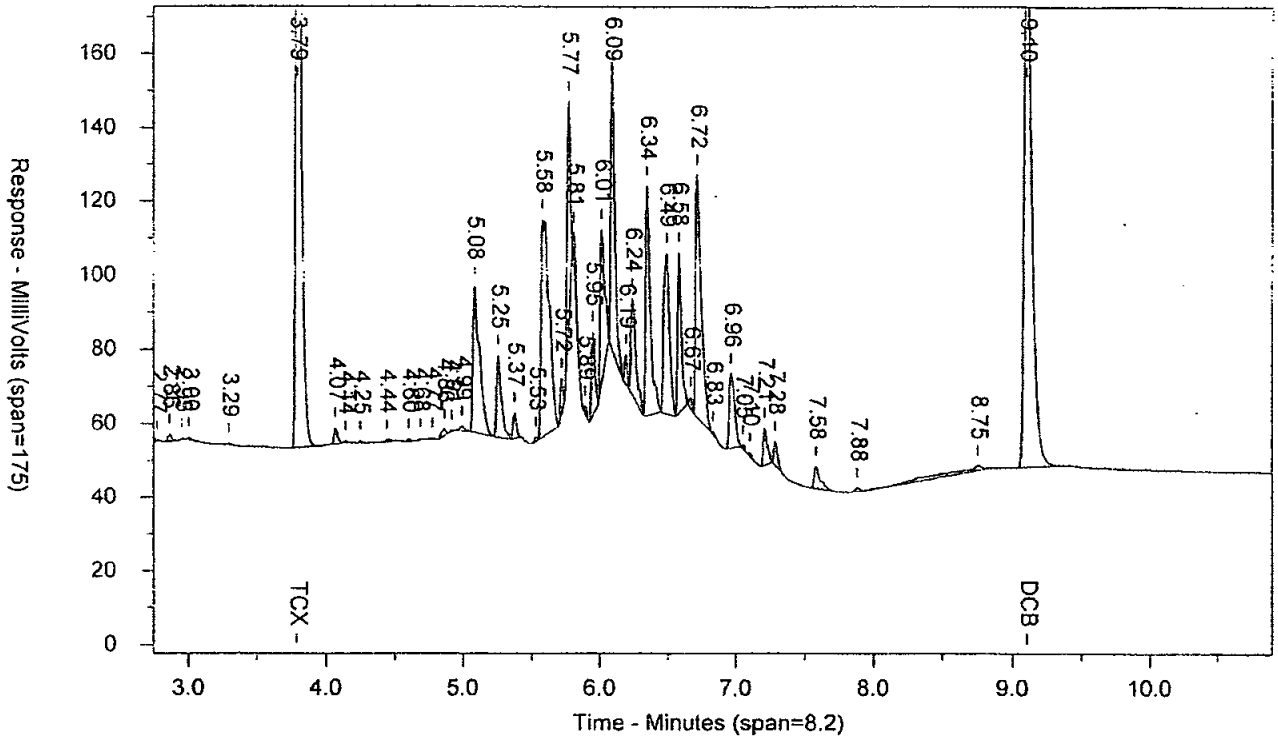

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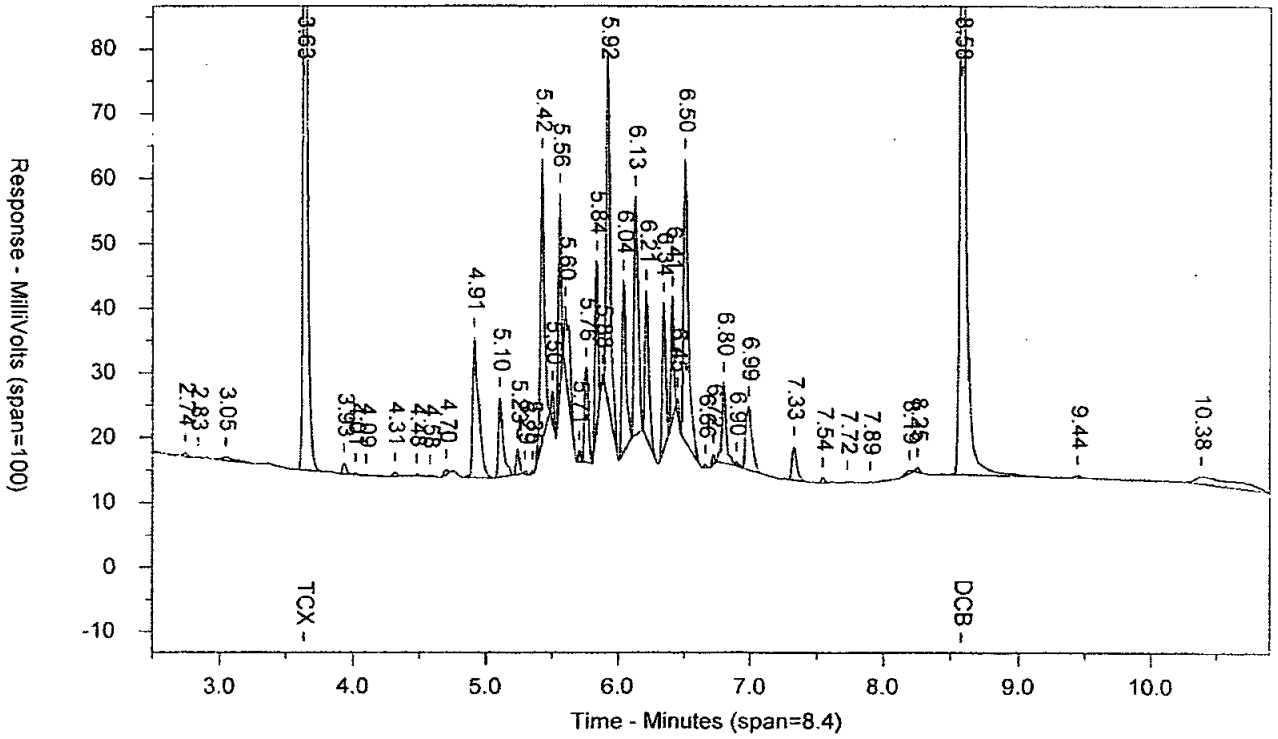


ASX73 1578

LANCASTER LABORATORIES

Sample Number: IC54X1224A AAIC54XAA CCAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 7:31:44 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
Calibration Type: external
Quantitation: Height

Analyst: 2855

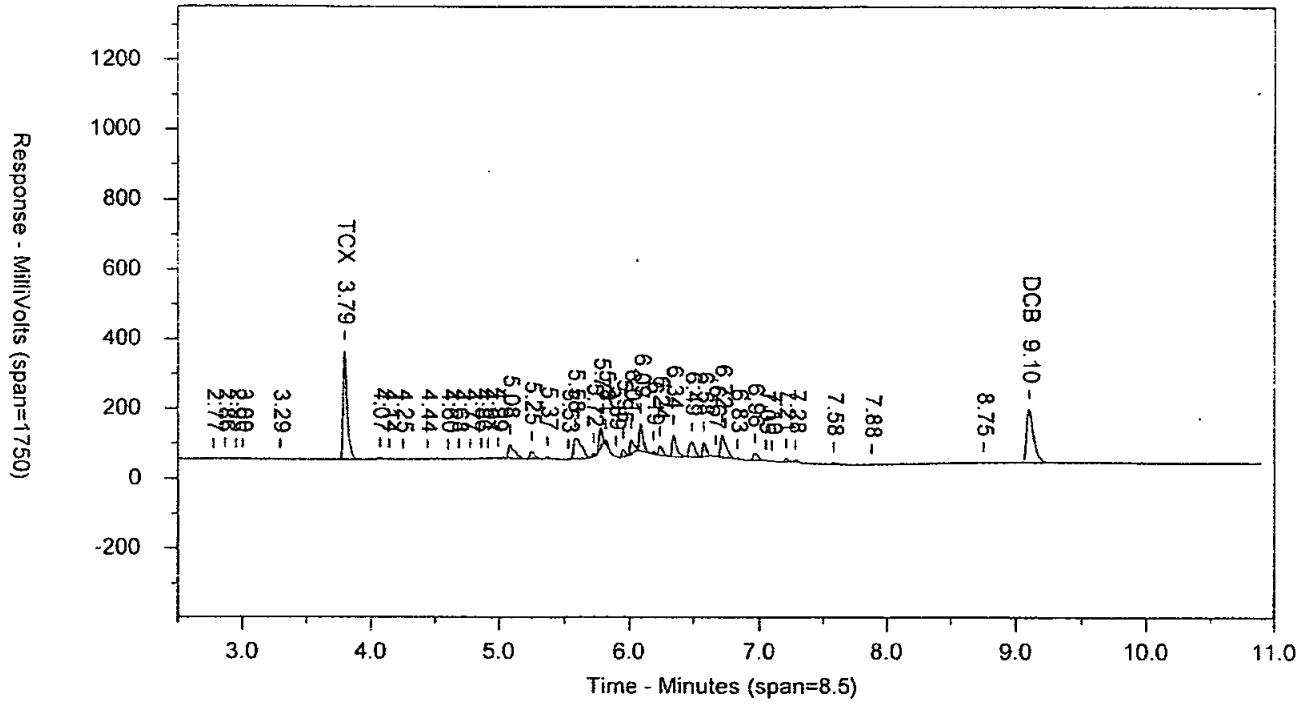
RT A	Height A	Amount A - PPB	Compound A	RT B	Height B	Amount B - PPB	Compound B
3.789	313435	36.605	TCX	3.632	143859	40.04	TCX
9.101	153671	38.191	DCB	8.579	123594	37.525	DCB

Files:
Area File: 1P7207.030.RAW
Area File: 1P7207B.030.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 7:42:12 PM
File Reported On: 7/25/2012 at 7:42:49 PM

ASX73 1571

IC54X1224A AAIC54XAA CCAL 1220699999

—— \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\1P7207.030.RAW



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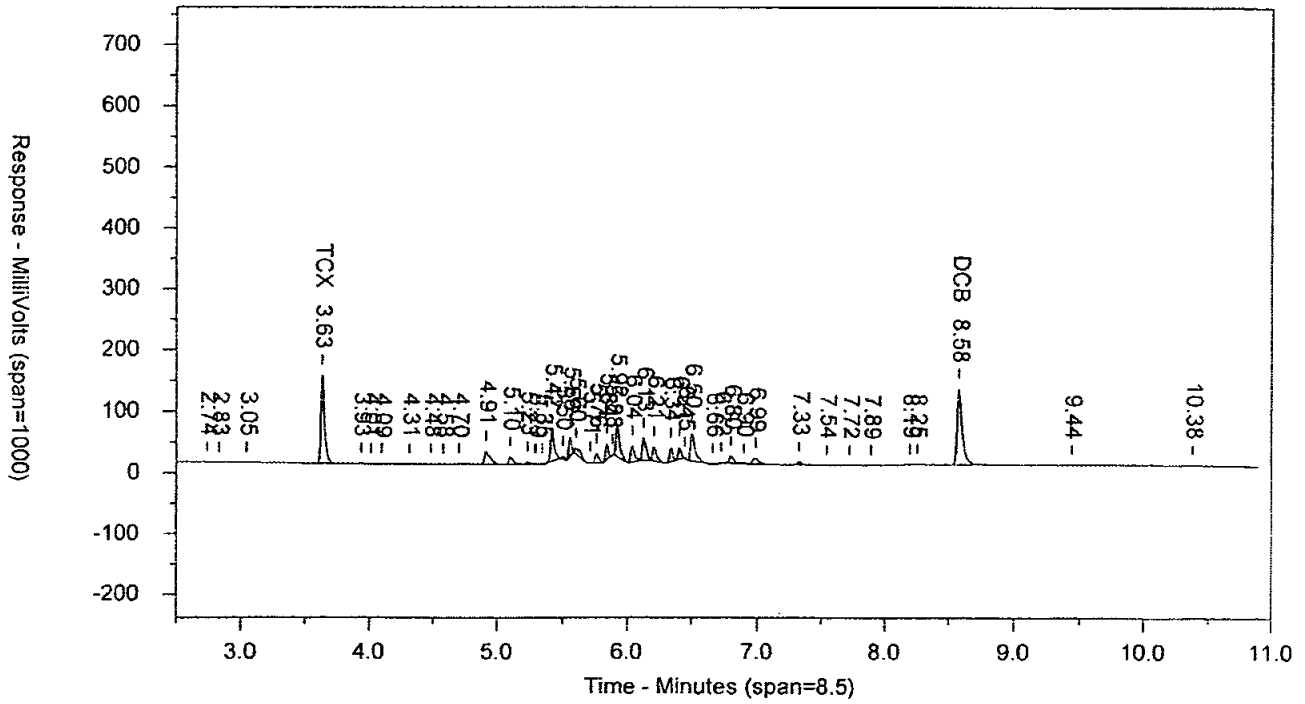

ASX73 1572

LANCASTER LABORATORIES

Sample Number: IC48X1224A CFIC48XCF CCAL 1220699999
Injected On: 7/25/2012 7:50:14 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 1P7207.031.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

Injection Volume: 1 ul
Analyst: 2855

RT A	Compound A	Height A	Area A
1.747		5929	36525
1.848		3117	21324
2.157		13563	105869
2.256		13654	82636
2.362		14226	164092
2.629		6782	54766
2.765		2021	11610
2.866		1471	2704
2.952		1390	2057
3.003		2453	19512
3.174		7089	44669
3.291		4111	23021
3.495		158	336
3.574		7310	18973
3.736		1498	2335
3.793	TCX	279927	607687
4		311	498
4.07		9661	31602
4.249		3593	33195
4.35		1382	5774
4.441		18087	56422
4.571		1513	2352
4.605		1826	2351
4.731		599	2836
4.771		1243	2505
4.856		36599	83818
4.908		8948	13785
4.991		18710	44384
5.084		16541	21707
5.122		18913	59009
5.253		35745	88512
5.322		5379	5586
5.371		25319	42845
5.423		5827	15492
5.54		1412	2296
5.604		20922	45420
5.634		23090	35227
5.72		1287	1436
5.773		42383	191340
5.954		7775	14883
6.016		8599	12154
6.052		3638	3547
6.091		19418	36271
6.193		8542	20274
6.297		3075	5345
6.349		11413	22442
6.441		597	682
6.485		1541	3280
6.581		14887	34118
6.713		3947	4807
6.847		718	5444
6.964		1072	2049
7.03		1212	8465

ASX73 1573

RT A	Compound A	Height A	Area A
7.155		554	1264
7.209		546	1867
7.575		1747	7223
7.884		847	1972
8.067		1595	5854
8.658		1246	4497
8.758		859	2073
9.106	DCB	142672	533588
9.371		997	4558
10.263		886	4982

ASX73 1574

LANCASTER LABORATORIES

Sample Number: IC48X1224A CFIC48XCF CCAL 1220699999
Injected On: 7/25/2012 7:50:14 PM
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 1P7207B.031.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

Injection Volume: 1 ul
Analyst: 2855

RT B	Compound B	Height B	Area A
1.539		10012	61805
1.819		3935	16056
2.093		4142	15607
2.475		2996	8314
2.684		322	535
2.738		395	733
2.834		195	395
2.903		2576	6649
2.979		469	930
3.203		239	804
3.34		2941	9465
3.501		1197	3199
3.632	TCX	131332	252193
3.763		2340	6743
3.864		416	782
3.933		1487	3080
4.015		1607	3302
4.163		2914	9229
4.31		9623	23822
4.48		5307	9075
4.533		880	1513
4.591		1601	3336
4.701		20468	42509
4.753		3650	5974
4.866		5212	7009
4.91		7690	9735
4.942		10421	23996
5.101		19007	38411
5.159		2809	3350
5.233		12379	22823
5.292		3497	5408
5.42		17886	28826
5.454		11283	15553
5.557		6596	9688
5.612		8441	13573
5.645		4125	5542
5.758		5151	9714
5.836		6914	10488
5.879		1797	1746
5.916		11256	18239
6.04		5337	12043
6.127		9758	18982
6.208		600	787
6.336		3151	9233
6.406		8360	16584
6.502		2320	5704
6.655		3120	11979
6.8		669	1473
6.986		3295	14701
7.328		3127	11418
7.544		763	1726
7.717		2751	10269
7.898		95	202
8.176		2114	6178

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8.253		508	925
8.583	DCB	115751	308597
8.732		1466	4430
9.445		1961	10585
10.359		1568	7953
10.546		603	11234

ASX73 1526

IC48X1224A CFIC48XCF CCAL 1220699999

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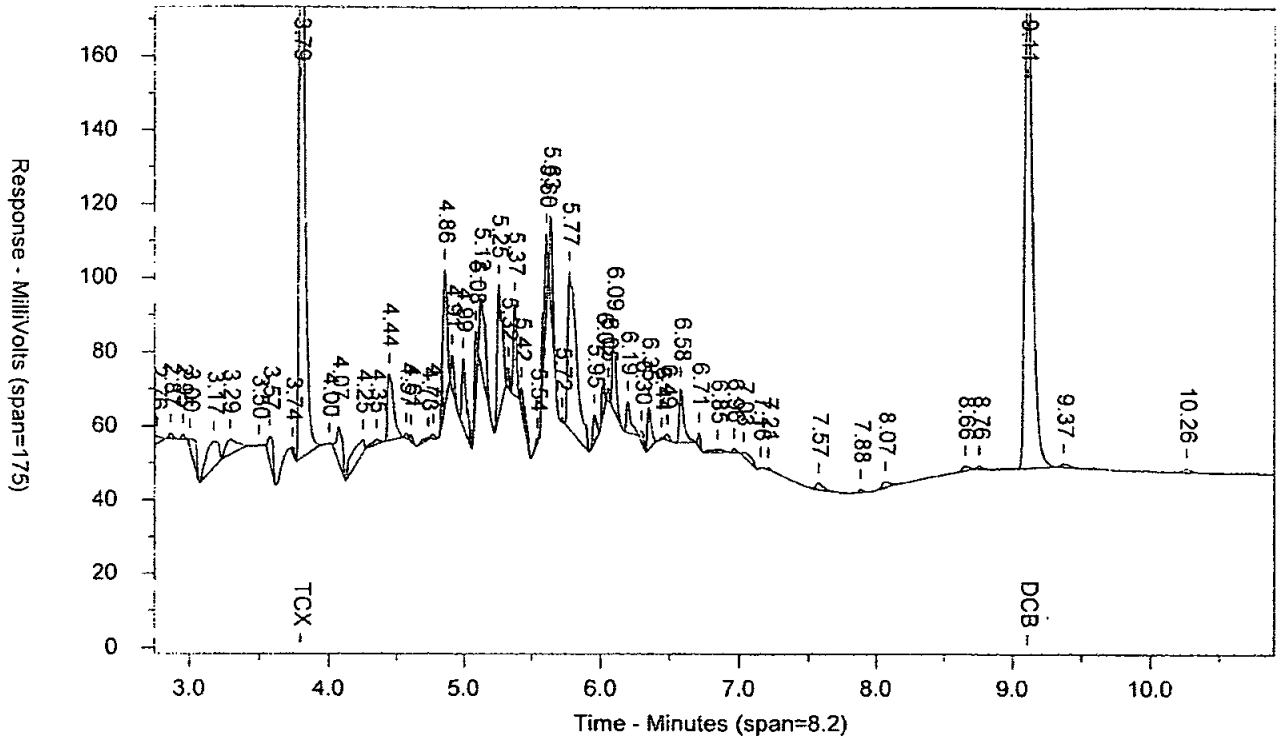

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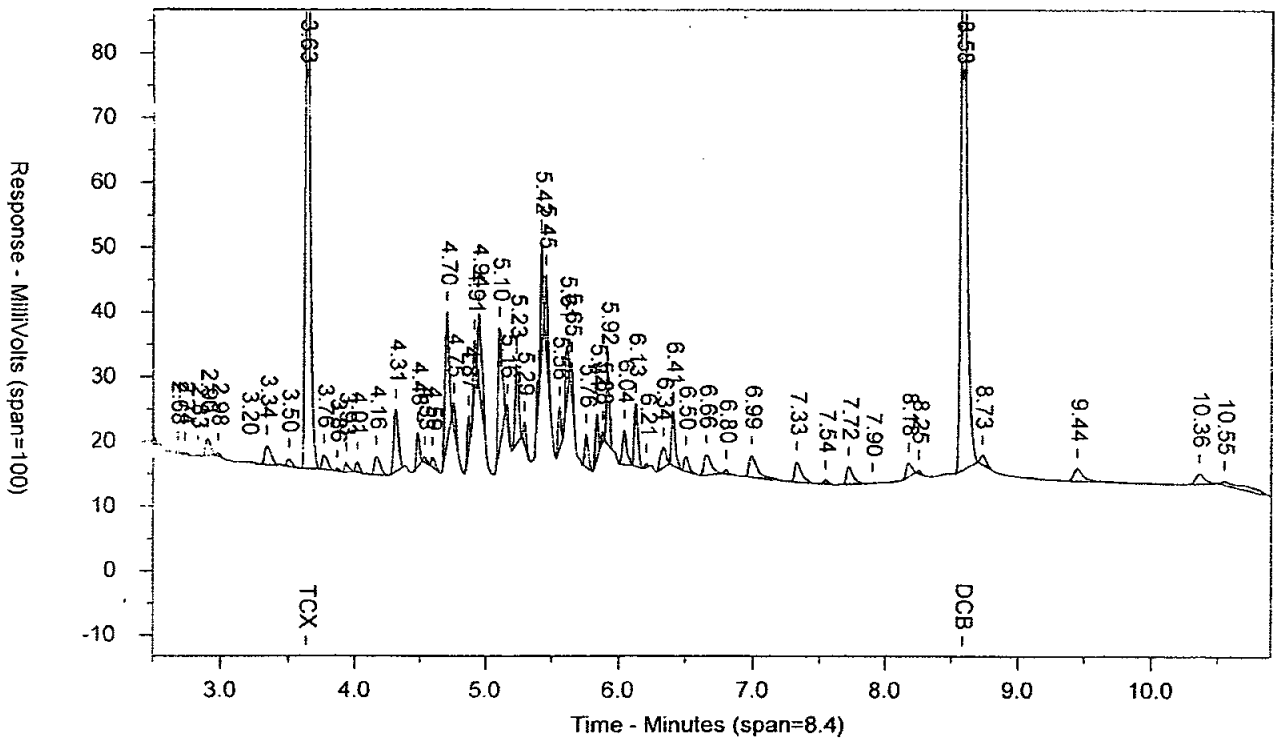

ASX73 1577

LANCASTER LABORATORIES

Sample Number: IC48X1224A CFIC48XCF CCAL 1220699999 Sample Weight: 1
Injected On: 7/25/2012 7:50:14 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.793	279927	32.692	TCX	3.632	131332	36.554	TCX
9.106	142672	35.458	DCB	8.583	115751	35.144	DCB

Files:
Area File: 1P7207.031.RAW
Area File: 1P7207B.031.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/25/2012 8:00:41 PM
File Reported On: 7/25/2012 at 8:01:14 PM

ASX73 1578

IC48X1224A CFIC48XCF CCAL 1220699999

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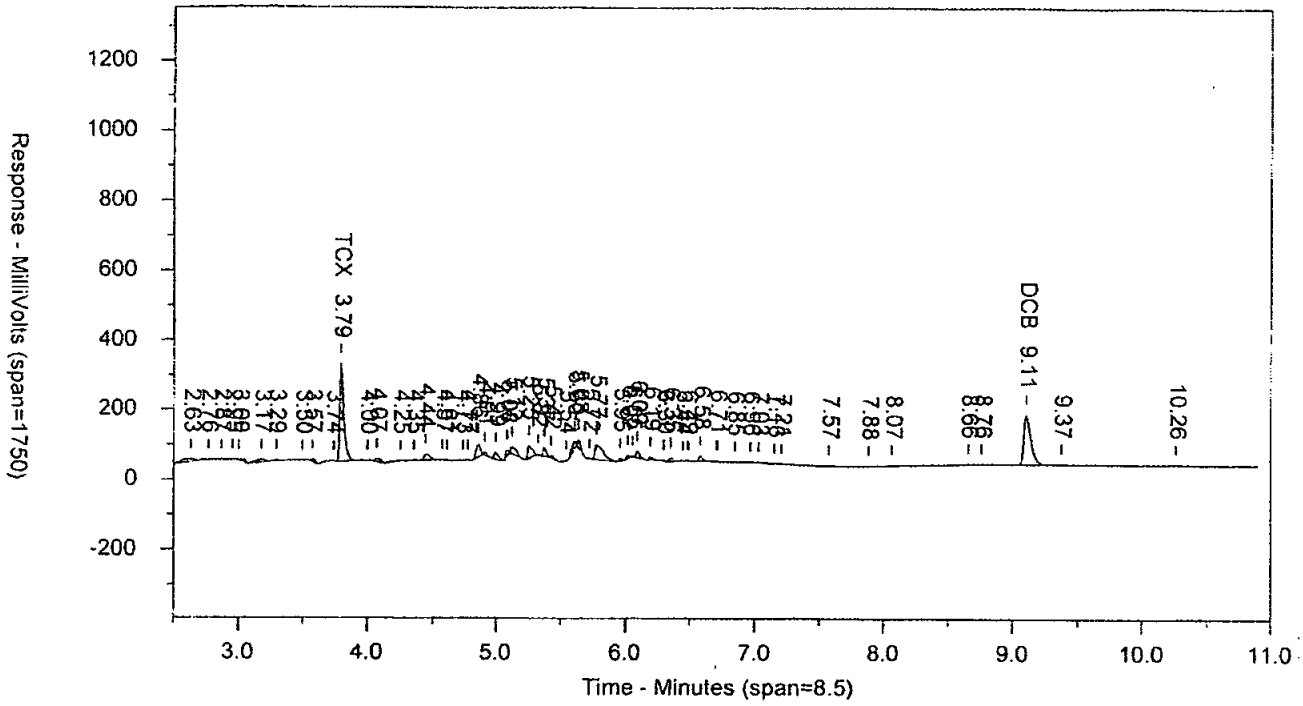

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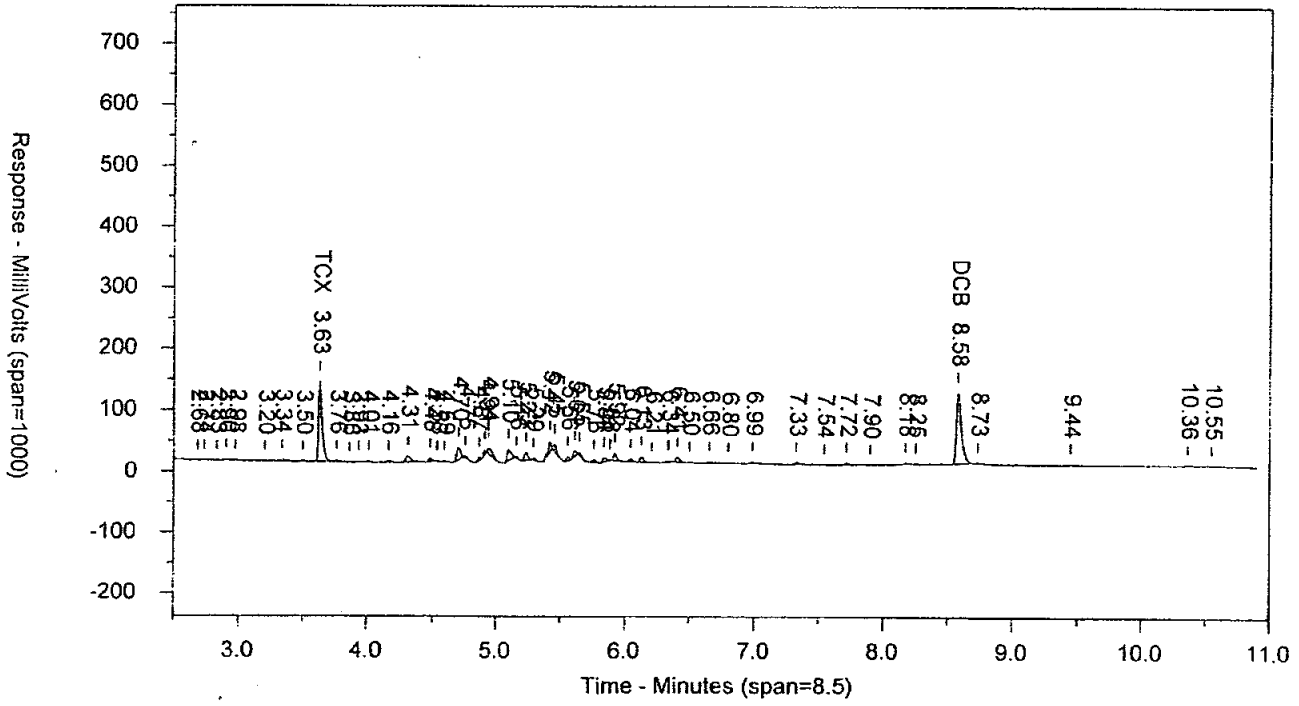

ASX73 1579

LANCASTER LABORATORIES

Sample Number: AR1631224B YPAR163YP CCAL 1220799999 Injection Volume: SW846 8082
Injected On: 7/26/2012 7:39:16 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 2p7207.010.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.714		960	3171
2.001		145	394
2.104		225	722
2.728		593	3024
2.864		1990	3637
2.948		996	1603
2.999		555	835
3.208		192	328
3.294		1297	5785
3.571		7625	52676
3.789	TCX	348699	752748
3.991		5953	11915
4.068		10619	18743
4.137		34727	75484
4.268		4109	9107
4.436		11387	14661
4.454		8916	11734
4.555		1316	1307
4.598		39494	82209
4.769		10821	28291
4.851		78557	169058
4.903		29440	47970
4.987		34249	64151
5.078		16157	20352
5.118		19057	55748
5.248		30205	78614
5.318		4597	4484
5.368		25701	45217
5.417		3994	5345
5.529		941	1105
5.576		32284	118433
5.719		2357	3314
5.773		29220	75728
5.947		945	1593
6.03		11078	23626
6.086		11607	17896
6.147		26624	75750
6.234		56689	134917
6.34		2133	2347
6.368		4127	4980
6.407		6872	10634
6.471		65145	206829
6.576		22479	45442
6.668		2683	2939
6.712		65953	141760
6.785		25645	39414
6.834		13021	21466
6.981		38516	91215
7.051		11925	18455
7.097		5088	7403
7.207		10288	19120
7.281		83465	229411
7.577		41657	80690

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RT A	Compound A	Height A	Area A
7.655		12331	31421
7.876		3506	9269
8.026		10561	38911
8.32		20906	54149
8.41		648	1102
8.748		8511	24996
9.095	DCB	167458	640472

ASX73 1591

LANCASTER LABORATORIES

Sample Number: AR1631224B YPAR163YP CCAL 1220799999 Injection Volume: 1 ulSW-846 8082
Injected On: 7/26/2012 7:39:16 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 2p7207B.010.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.538		42614	259314
2.683		287	470
2.738		628	1349
2.833		228	556
2.893		217	385
3.043		357	2099
3.361		862	3772
3.5		1384	4613
3.63	TCX	167396	328114
3.853		2871	5859
3.936		4832	9704
4.013		17402	37794
4.171		2205	5068
4.31		29091	83040
4.478		21423	48759
4.595		7033	20406
4.7		48619	94358
4.753		15202	26032
4.863		15620	21786
4.907		6562	7342
4.941		12002	26992
5.099		17289	35782
5.231		15153	29733
5.291		3591	5496
5.417		21527	54924
5.554		15895	31075
5.755		704	1350
5.832		2879	4661
5.925		27213	106766
6.031		39246	79663
6.151		7498	13167
6.204		46843	95413
6.338		41755	79323
6.404		1612	1771
6.451		7110	9206
6.497		27551	34820
6.528		12520	15294
6.578		8928	12330
6.707		4183	7510
6.765		27668	58705
6.853		10976	16055
6.893		1922	1769
6.99		67327	139921
7.259		13782	24153
7.324		46662	103792
7.54		2111	4080
7.603		607	796
7.723		7501	17734
7.89		18606	48447
8.251		7060	17809
8.574	DCB	139943	394761
9.413		219	853
10.333		239	1489

AR1631224B YPAR163YP CCAL 1220799999 SW-846 8082

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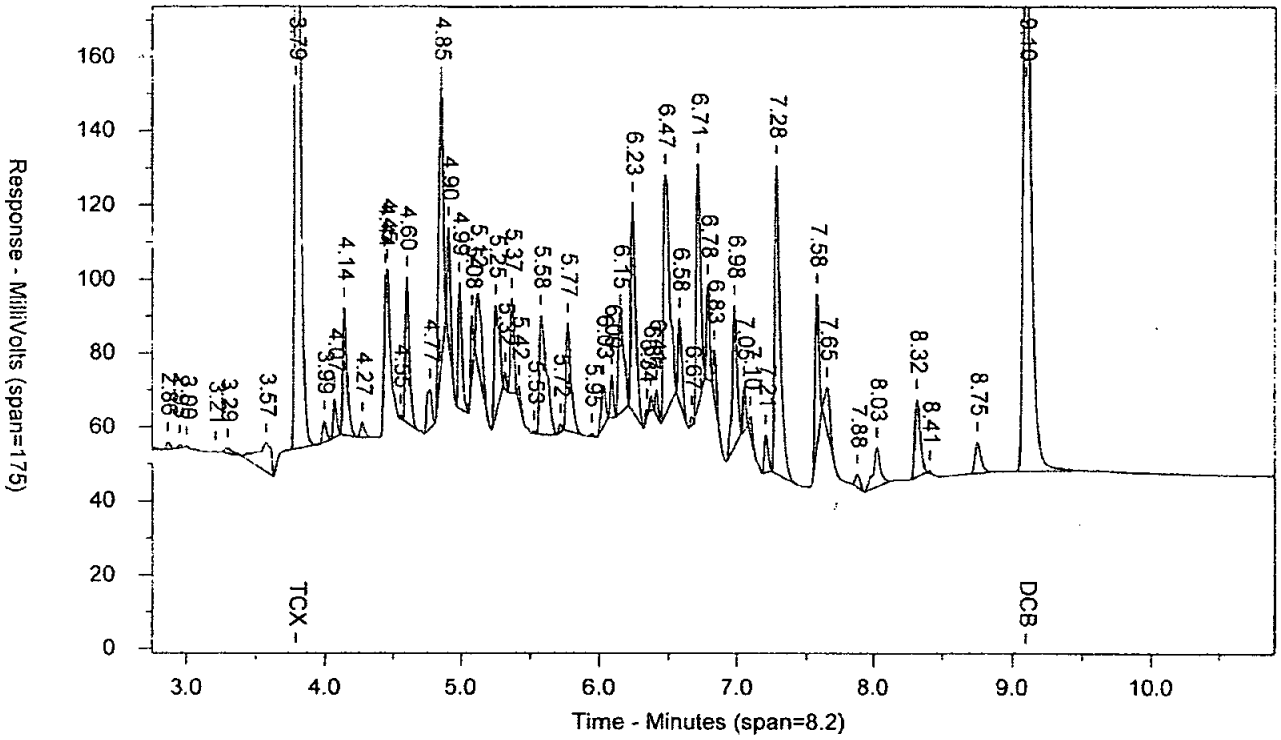

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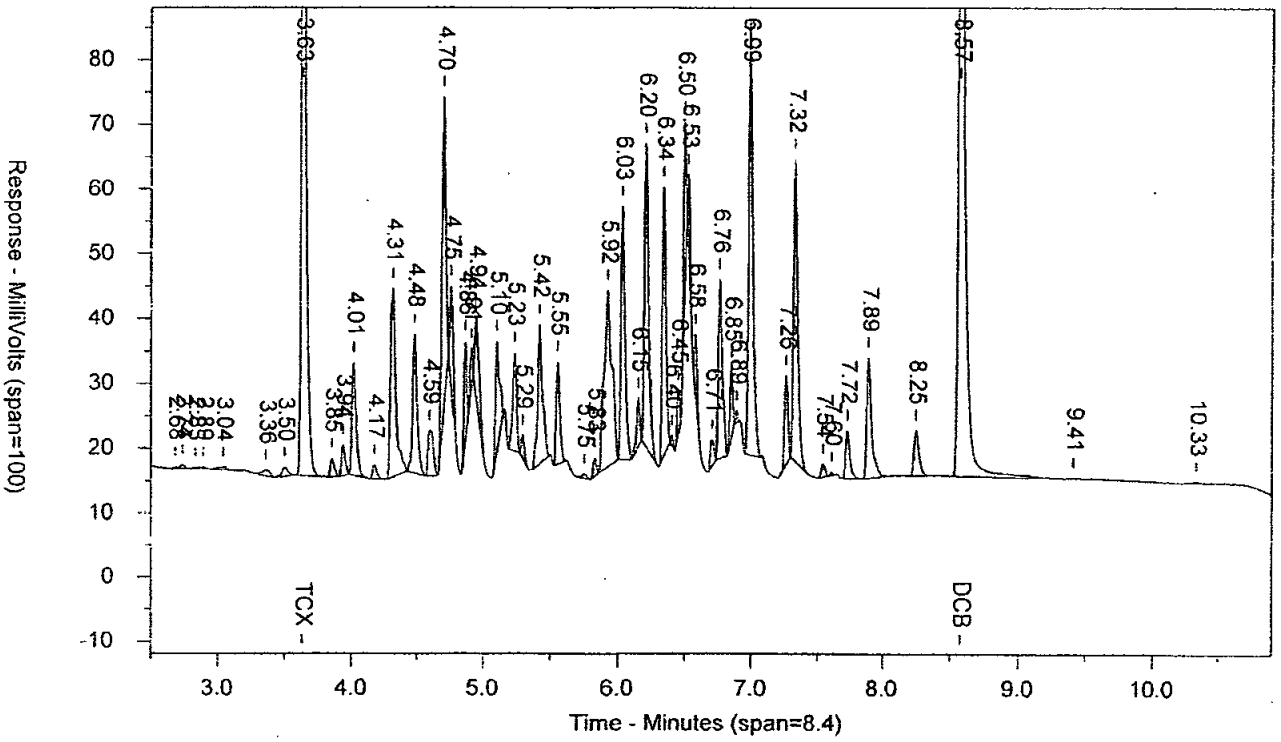

LANCASTER LABORATORIES

Sample Number: AR1631224B YPAR163YP CCAL 1220799999 Sample Weight: 1SW-846 8082
Injected On: 7/26/2012 7:39:16 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.789	348699	40.724	TCX	3.63	167396	46.592	TCX
9.095	167458	41.618	DCB	8.574	139943	42.489	DCB

Files:
Area File: 2p7207.010.RAW
Area File: 2p7207B.010.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/26/2012 7:49:42 PM
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AR1631224B YPAR163YP CCAL 1220799999 SW-846 8082

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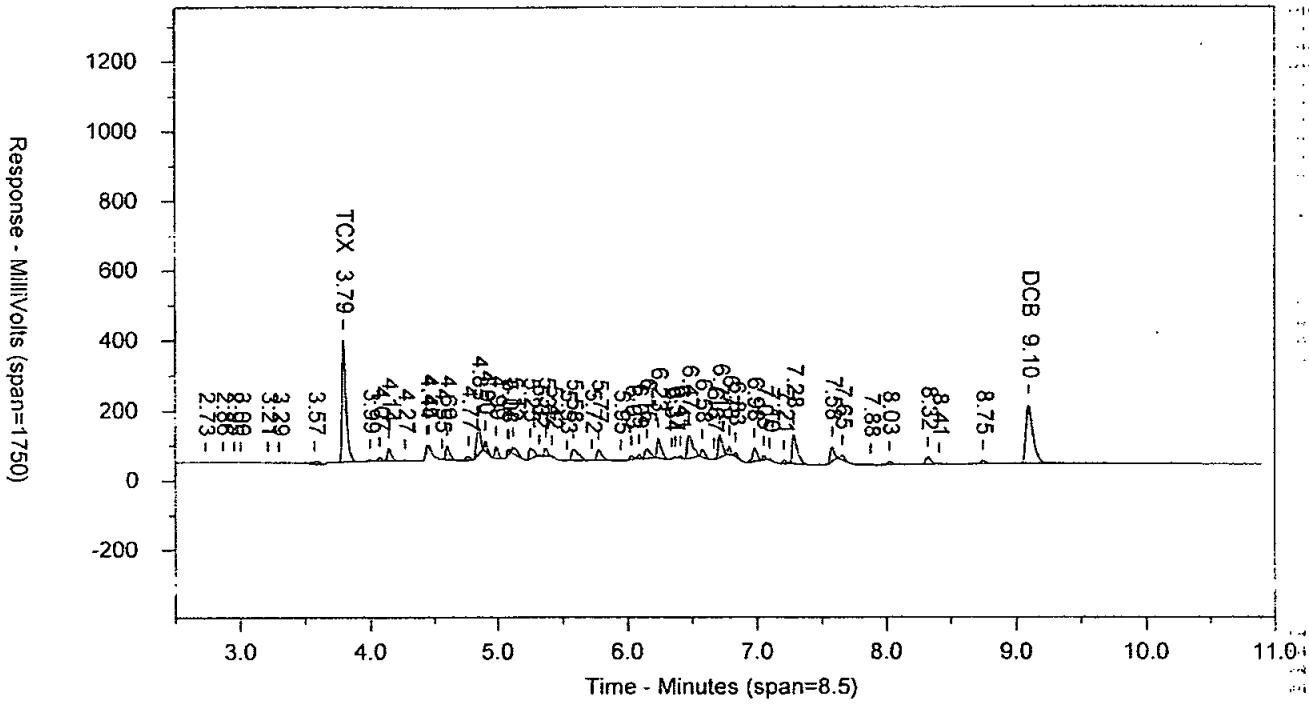

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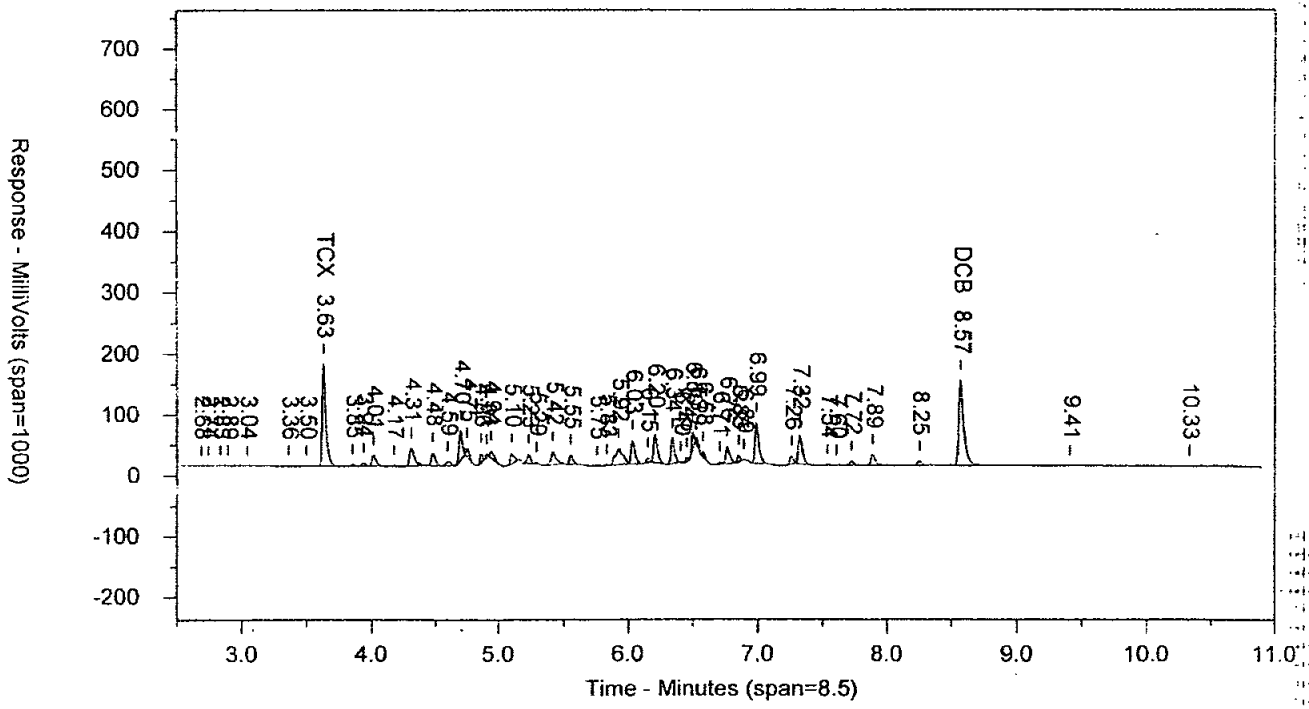

ASX79 1585

LANCASTER LABORATORIES

Sample Number: IBLKX1224C QGPIBLKQG PIBLK1220799999 Injection Volume: SW846 8082
Injected On: 7/26/2012 7:54:03 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 2p7207.011.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.718		2194	14619
1.918		315	2145
2.1		1578	14515
2.246		983	5193
2.369		723	2488
2.599		608	3701
2.728		320	1031
2.862		782	1281
2.946		1581	4130
3.11		229	792
3.283		956	5352
3.57		9412	51244
3.787	TCX	158494	323411
4.063		2652	8015
4.245		300	3332
4.398		256	1673
4.566		907	4650
4.765		266	4232
4.808		1906	3156
4.959		2133	14633
5.105		892	7112
5.385		204	385
5.452		1035	2262
5.522		845	2129
5.613		1172	1599
5.801		2487	26423
6.046		564	7593
6.367		7442	24925
6.558		672	1543
6.63		1103	5871
6.754		612	6394
7.129		450	1672
7.571		666	1807
7.689		673	4654
7.875		1025	3080
8.058		854	6952
8.645		617	2274
8.748		397	938
9.093	DCB	79506	279237
9.356		519	2374
10.237		420	2526
10.714		145	698

ASX73 1586

LANCASTER LABORATORIES

Sample Number: IBLKX1224C QGPIBLKQG PIBLK1220799999 Injection Volume: 1 uSW-846 8082
Injected On: 7/26/2012 7:54:03 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 2p7207B.011.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.539		10823	58542
2.681		302	520
2.834		219	541
3		452	3586
3.352		871	4193
3.499		2773	8845
3.629	TCX	72572	140658
3.928		793	1840
4.154		388	960
4.429		139	627
4.529		585	1072
4.587		1356	2754
4.762		421	1793
4.898		1512	5203
5.195		825	2627
5.26		1324	5001
5.618		2773	24159
5.887		5252	12803
5.967		1353	2530
6.198		493	1984
6.314		1942	6185
6.648		2367	11475
6.978		2055	7491
7.322		1672	5930
7.538		435	1032
7.706		1651	6545
8.163		1175	3285
8.247		287	529
8.572	DCB	64803	171731
8.72		782	2177
9.426		1050	4769
10.337		806	3906

IBLKX1224C QGPIBLKQG PIBLK1220799999 SW-846 8082

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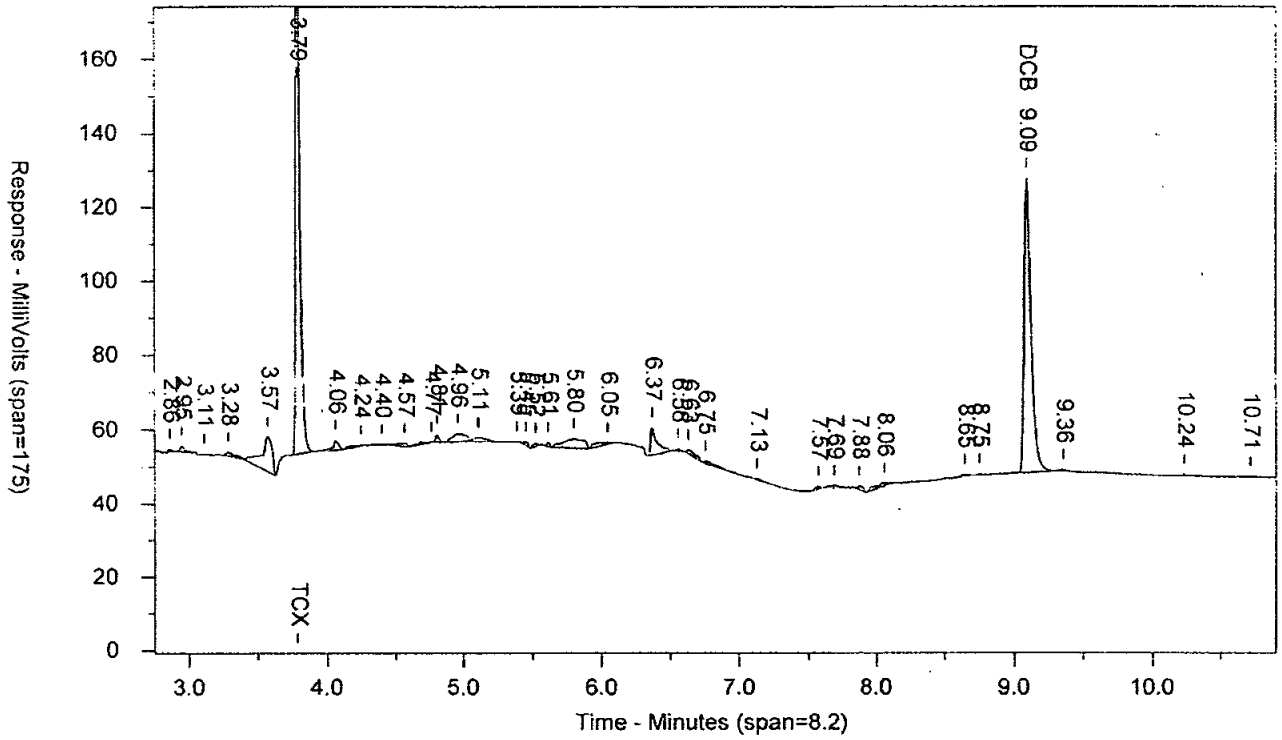

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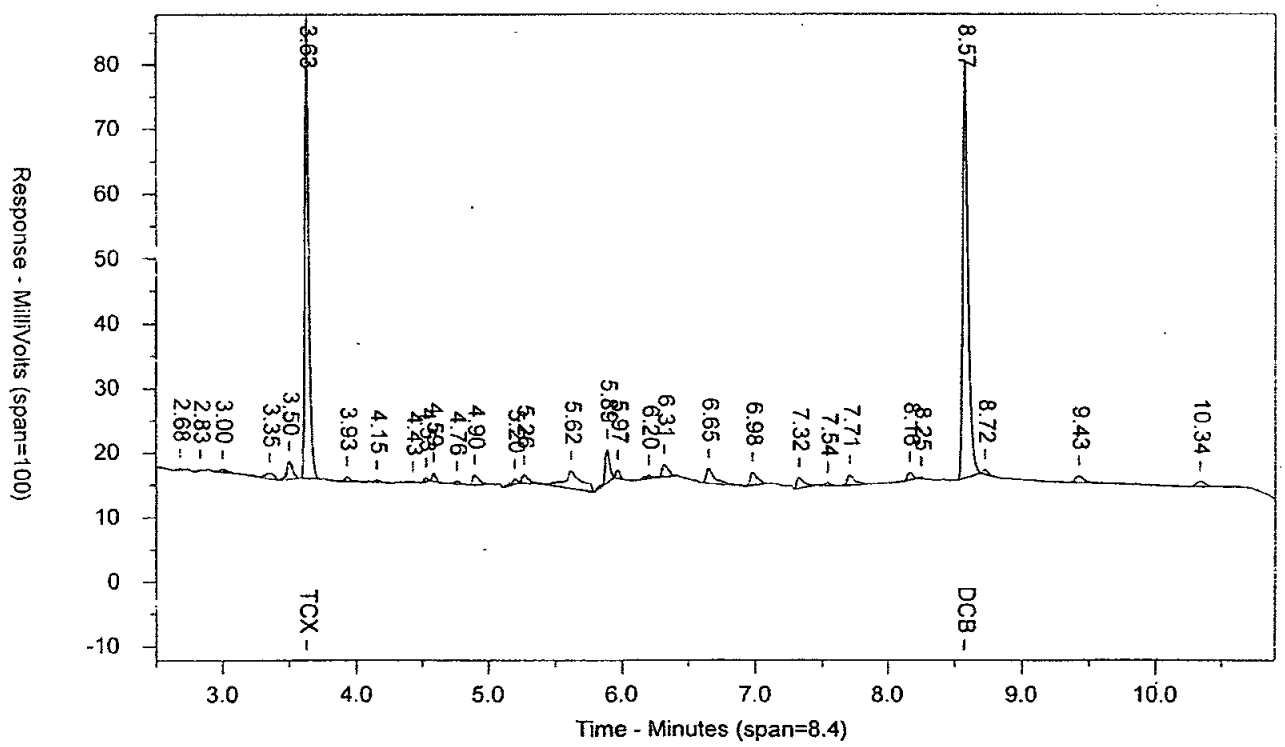

ASX73 1588

LANCASTER LABORATORIES

Sample Number: IBLKX1224C QGPIBLKQG PIBLK1220799999 Sample Weight: 1000846 8082
Injected On: 7/26/2012 7:54:03 PM Dilution Factor: 10
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.787	158494	.185	TCX	3.629	72572	.202	TCX
9.093	79506	.198	DCB	8.572	64803	.197	DCB

Files:
Area File: 2p7207.011.RAW
Area File: 2p7207B.011.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
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IBLKX1224C QGPIBLKQG PIBLK1220799999 SW-846 8082

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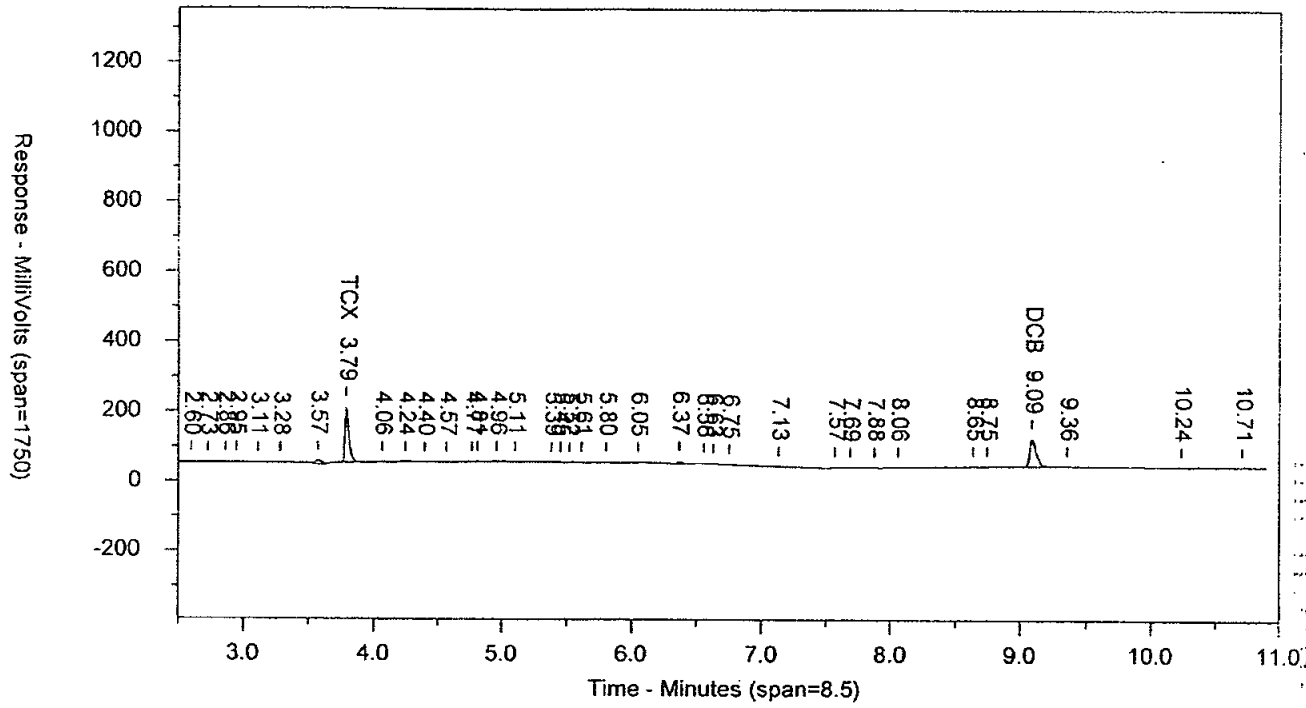

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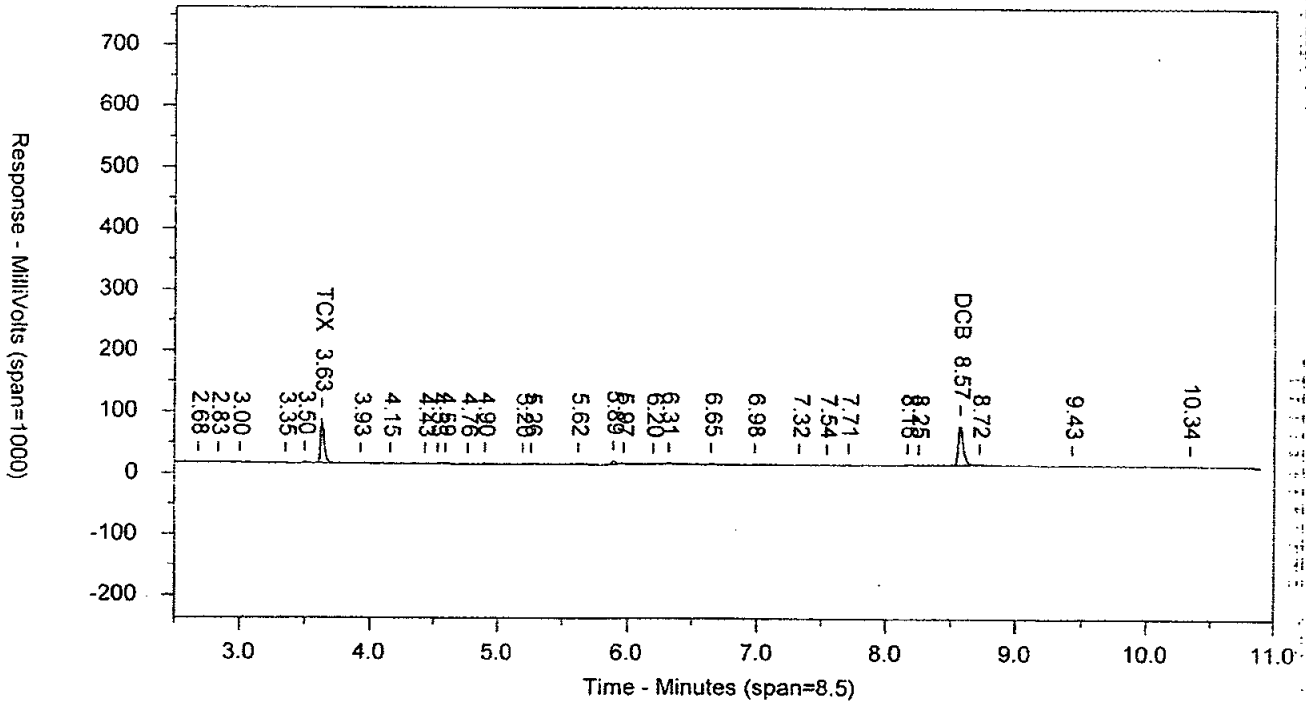

A9X73 1596

LANCASTER LABORATORIES

Sample Number: AR1631224B YQAR163YQ CCAL 1220799999 Injection Volume: SW-846 8082
Injected On: 7/26/2012 9:53:35 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 2p7207.019.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.707		608	1783
2.064		392	3521
2.717		608	3212
2.86		1711	3047
2.946		1243	2007
2.996		474	697
3.291		1069	4827
3.57		9043	39977
3.786	TCX	303844	652080
3.989		5365	10711
4.065		9498	16786
4.134		30961	67535
4.265		3639	7877
4.433		12017	15047
4.452		7845	10078
4.595		34782	73348
4.766		9870	25810
4.848		70162	151510
4.901		25742	42155
4.984		30067	56179
5.075		14265	17997
5.115		16607	48827
5.245		26593	69279
5.315		4036	3905
5.364		22375	39428
5.414		3349	4529
5.526		936	1091
5.573		28505	105233
5.715		2072	2941
5.77		25943	66836
5.944		828	1373
6.027		9724	20377
6.082		10125	15610
6.144		23453	66796
6.231		50322	119887
6.337		2297	2523
6.364		2227	2428
6.404		6718	10771
6.469		59907	189940
6.573		20639	42224
6.666		2539	2737
6.709		60463	130359
6.781		23812	37092
6.832		12275	19703
6.977		35365	84791
7.048		11052	17064
7.094		4596	6656
7.204		9237	16943
7.279		73800	202588
7.574		36680	70207
7.652		10283	26046
7.872		2897	7423
8.022		8996	30918

ASX73 1591

RT A	Compound A	Height A	Area A
8.316		18521	47877
8.743		7411	22256
9.09	DCB	147195	562187

ASX73 1592

LANCASTER LABORATORIES

Sample Number: AR1631224B YQAR163YQ CCAL 1220799999 Injection Volume: 1 ul SW-846 8082
Injected On: 7/26/2012 9:53:35 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 2p7207B.019.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.531		39041	202998
2.68		297	504
2.735		547	1117
2.829		179	422
3.008		315	1884
3.353		728	3345
3.499		3373	10332
3.627	TCX	145146	284290
3.85		2545	5223
3.934		4235	8521
4.01		15264	33300
4.168		1917	4364
4.308		25299	72815
4.475		18824	43317
4.592		5846	17204
4.697		42120	83007
4.75		13235	22833
4.86		13425	18835
4.904		5951	6756
4.938		10405	23556
5.096		15066	31276
5.228		13084	25421
5.288		3139	4808
5.414		18713	48021
5.551		13895	27330
5.752		626	1210
5.829		2490	4115
5.922		23404	89139
6.028		34191	70004
6.148		6479	11225
6.201		41220	84616
6.335		37004	70725
6.4		1458	1607
6.447		6302	8138
6.494		23086	30336
6.524		11618	13868
6.574		8026	11116
6.703		3748	6730
6.761		25261	53787
6.85		10067	14959
6.89		1683	1559
6.986		59170	123145
7.256		11786	20805
7.321		40812	90290
7.536		1785	3441
7.602		507	699
7.72		6459	15246
7.886		16132	42175
8.163		89	213
8.246		6100	15409
8.57	DCB	122159	349669
9.4		172	639

ASX73 1593

AR1631224B YQAR163YQ CCAL 1220799999 SW-846 8082

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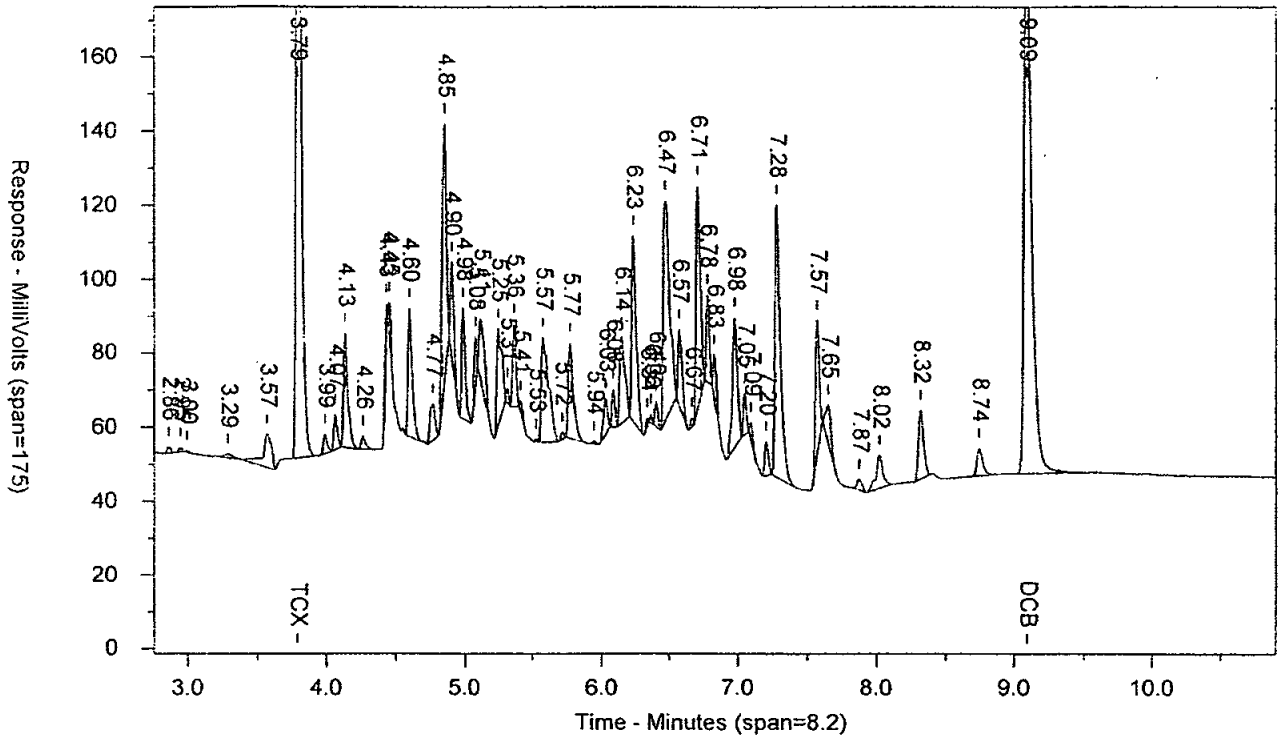

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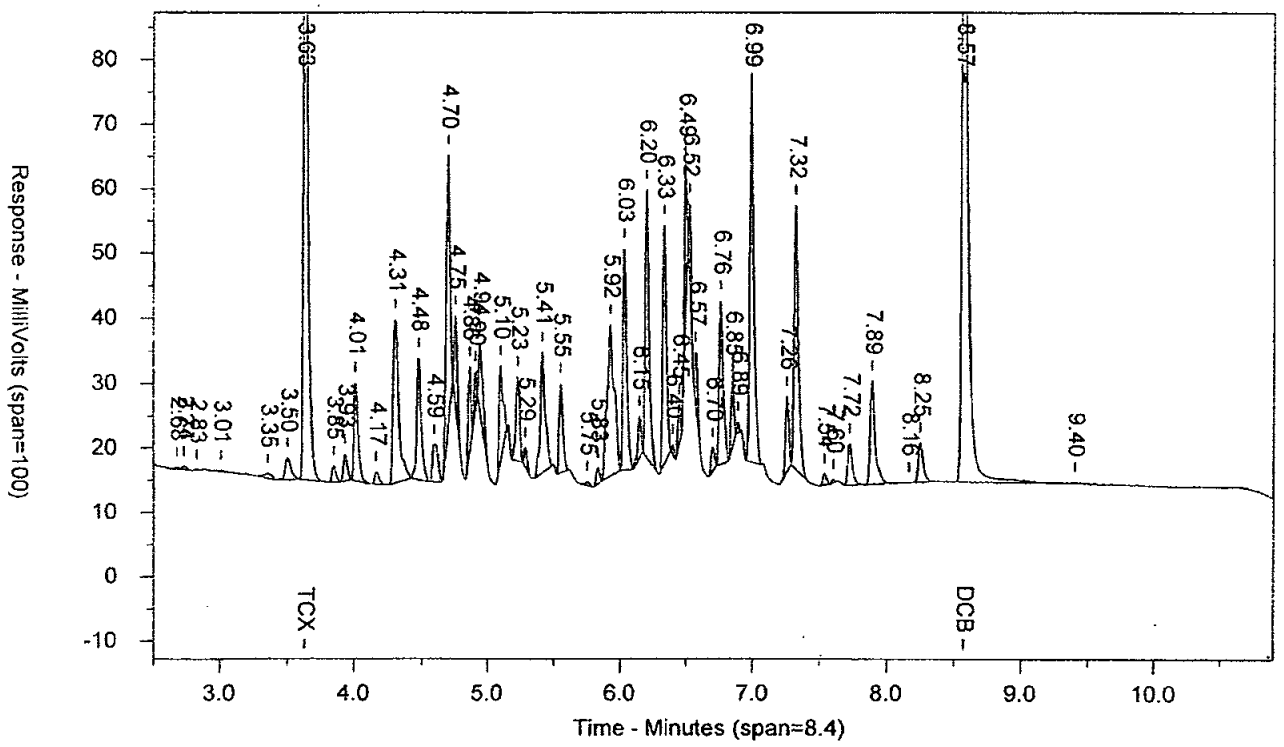

ASX70 1594

LANCASTER LABORATORIES

Sample Number: AR1631224B YQAR163YQ CCAL 1220799999 Sample Weight: 1SW-846 8082
Injected On: 7/26/2012 9:53:35 PM Dilution Factor: 1
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.786	303844	35.485	TCX	3.627	145146	40.399	TCX
9.09	147195	36.582	DCB	8.57	122159	37.089	DCB

Files:
Area File: 2p7207.019.RAW
Area File: 2p7207B.019.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/26/2012 10:04:00 PM
File Reported On: 7/26/2012 at 10:04:37 PM

AR1631224B YQAR163YQ CCAL 1220799999 SW-846 8082

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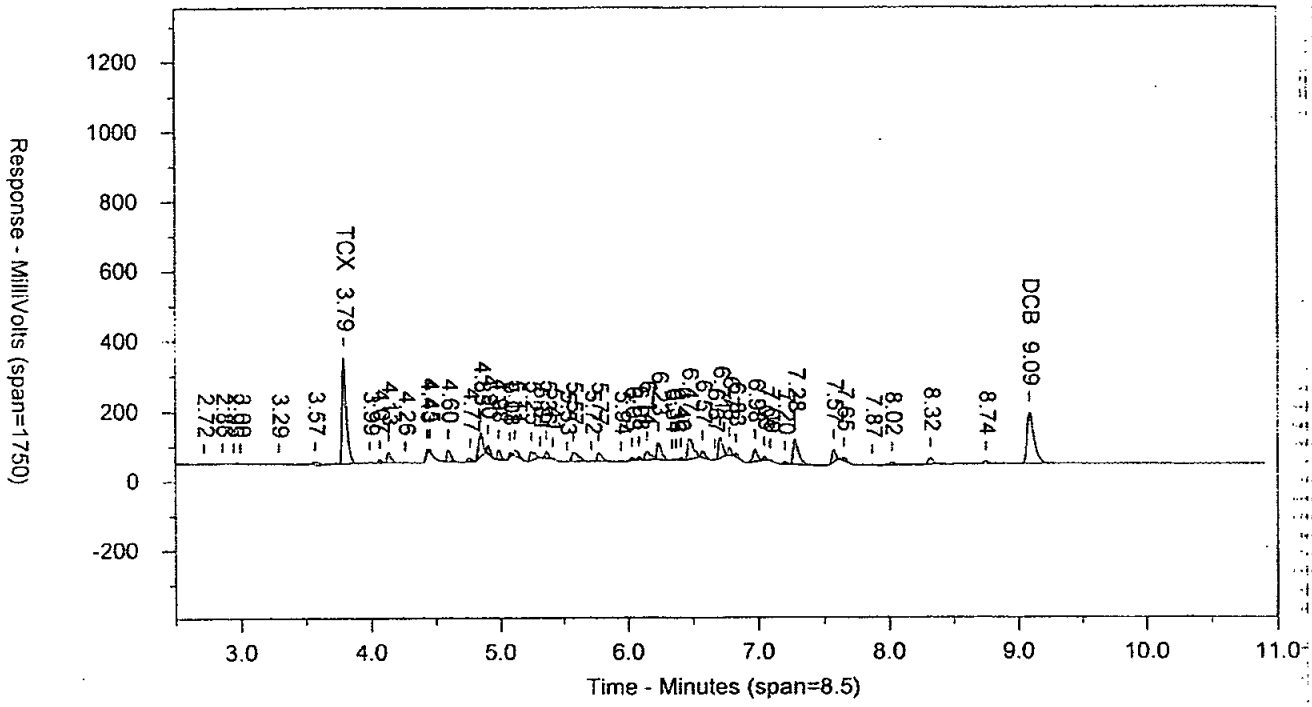

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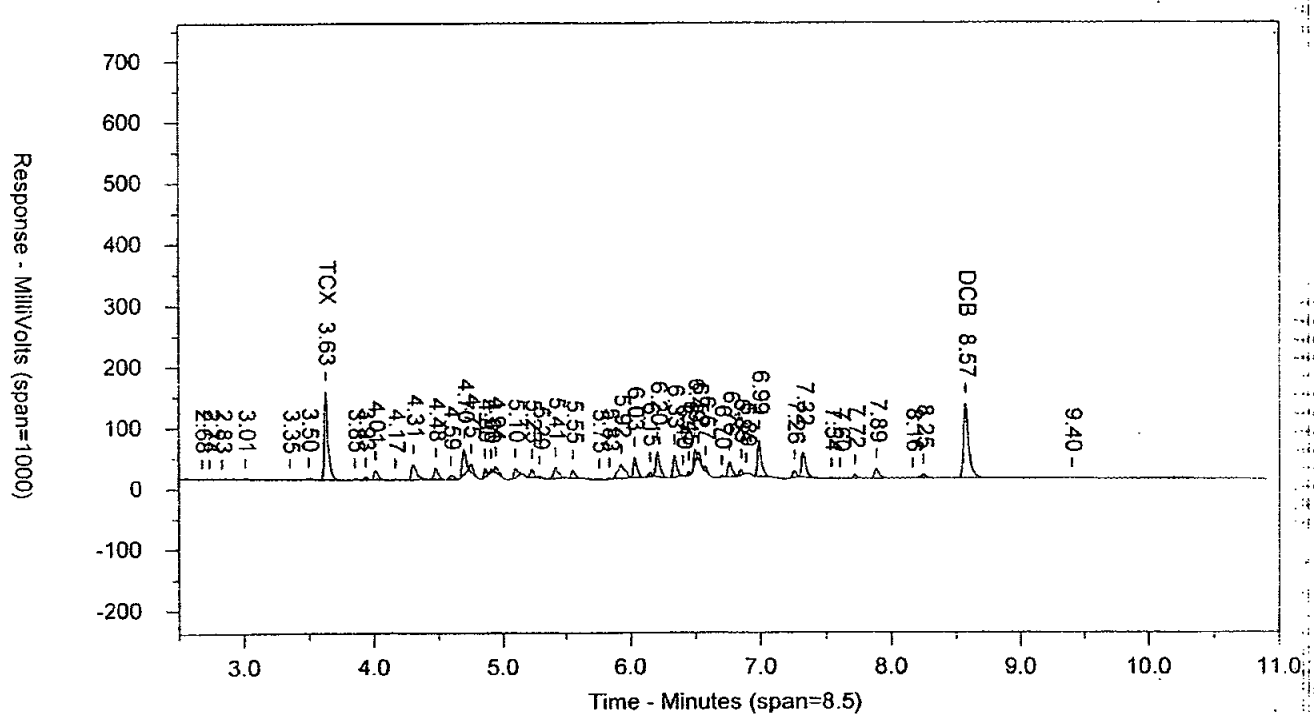

ASX73 1596

LANCASTER LABORATORIES

Sample Number: IBLKX1224C QHPIBLKQH PIBLK1220799999 Injection Volume: SW846 8082
Injected On: 7/26/2012 10:08:20 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 2p7207.020.RAW
Method File: PESTDI7.MET
Calibration File: 1p7207.CAL

RT A	Compound A	Height A	Area A
1.713		2831	16291
1.916		297	1833
2.098		2344	23164
2.248		1320	6771
2.368		663	1969
2.6		1100	7770
2.733		269	860
2.862		847	1356
2.946		1691	4491
3.109		482	1418
3.283		963	5585
3.57		6291	24367
3.786	TCX	161664	328262
4.062		3138	10812
4.246		366	4902
4.404		201	1539
4.569		1442	5848
4.808		1727	9890
4.965		2812	18119
5.113		982	7235
5.38		260	552
5.453		1253	2738
5.524		922	2404
5.613		1275	1776
5.801		2649	27757
6.046		655	8582
6.366		7042	16396
6.558		1133	2968
6.631		1445	8039
6.773		516	1617
7.57		596	1522
7.689		509	3085
7.874		908	2669
8.06		633	5505
8.641		597	2029
8.743		407	979
9.091	DCB	80366	285630
9.355		459	2062
10.236		348	1632

ASX73 1597

LANCASTER LABORATORIES

Sample Number: IBLKX1224C QHPIBLKQH PIBLK1220799999 Injection Volume: 1 uSW-846 8082
Injected On: 7/26/2012 10:08:20 PM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 2p7207B.020.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7207b.CAL

RT B	Compound B	Height B	Area A
1.539		11641	62872
2.088		348	2572
2.68		340	587
2.734		264	481
2.829		233	563
2.895		283	542
3.002		466	3950
3.346		703	3117
3.498		2501	7087
3.629	TCX	73075	141111
3.753		266	528
3.928		801	1697
4.092		116	201
4.153		464	1202
4.384		463	1999
4.53		641	1212
4.586		971	1840
4.768		738	3027
4.898		1589	5271
5.194		848	2704
5.261		1369	4983
5.618		3000	27301
5.887		5252	12966
5.967		1383	2631
6.16		414	660
6.315		1933	6105
6.409		496	1114
6.649		2348	10589
6.978		2210	10796
7.322		1731	6170
7.537		452	1106
7.706		1629	6396
8.163		1209	3362
8.244		281	528
8.571	DCB	65941	174172
8.718		799	2234
9.421		1021	5007
10.332		781	3641

ASX73 1598

IBLKX1224C QHPIBLKQH PIBLK1220799999 SW-846 8082

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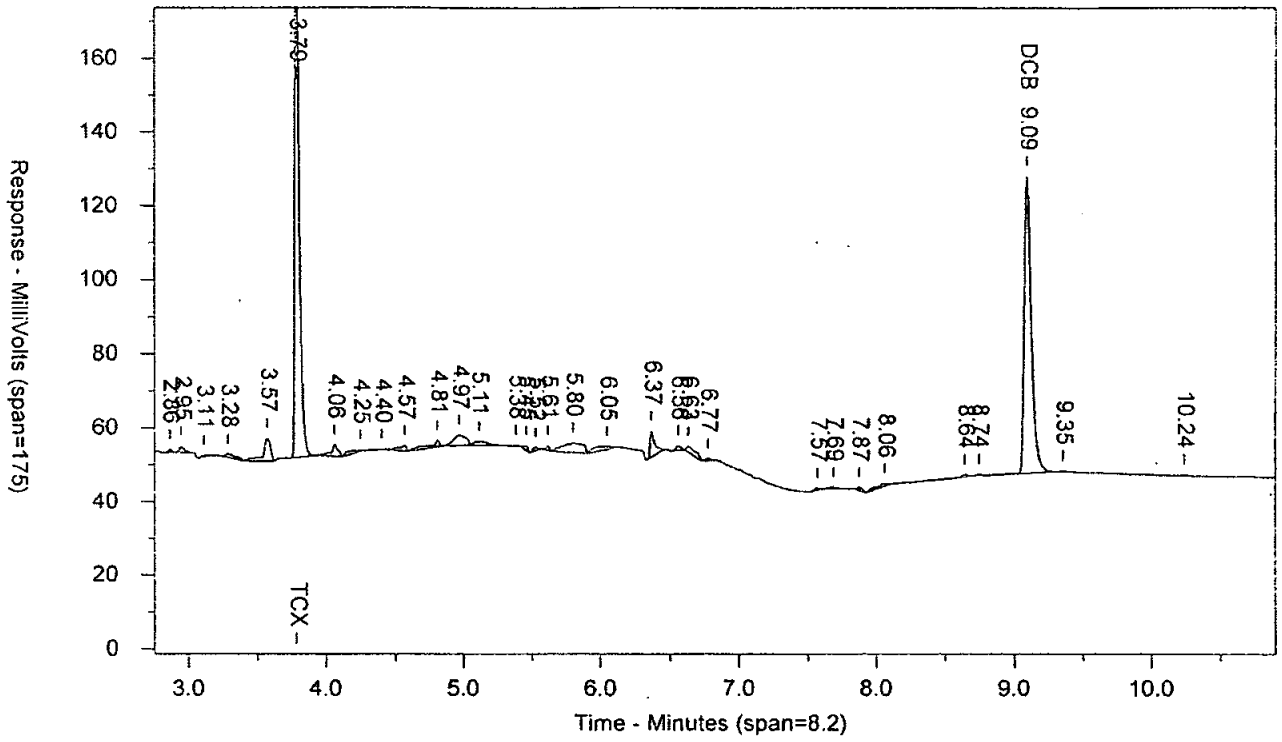

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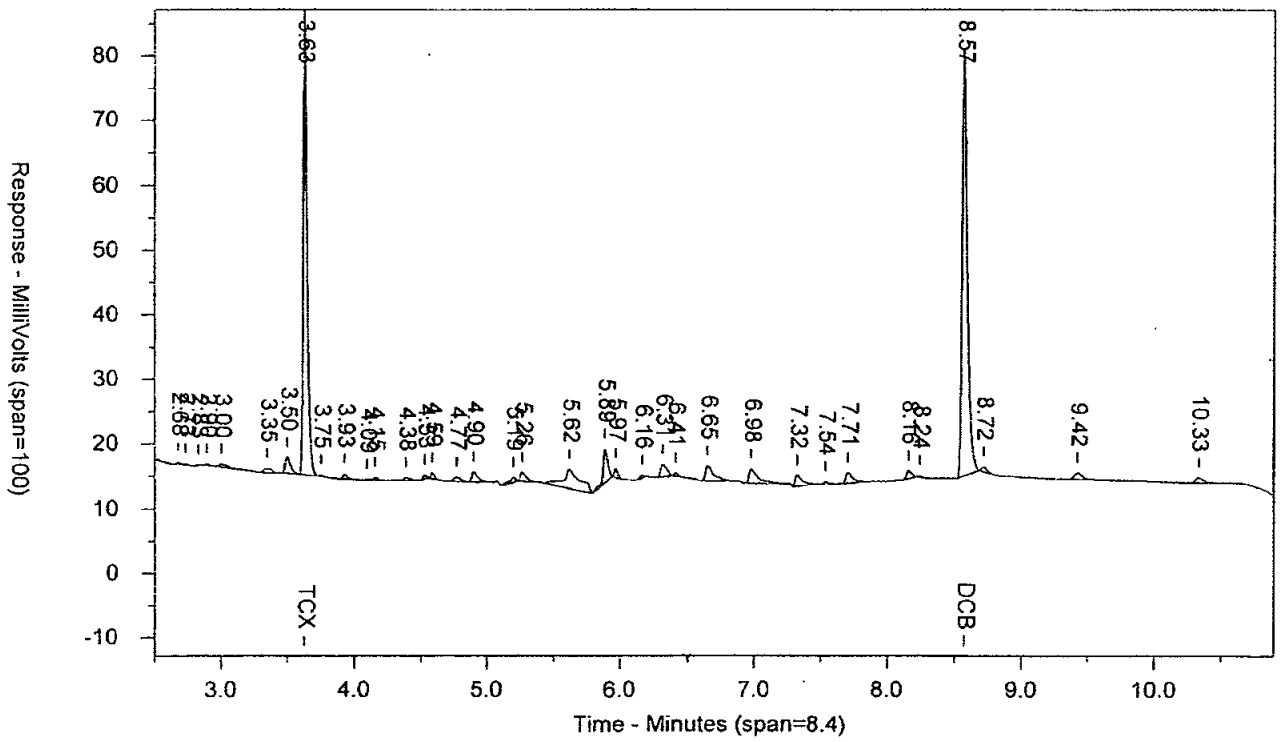

ASX73 1599

LANCASTER LABORATORIES

Sample Number: IBLKX1224C QHPIBLKQH PIBLK1220799999 Sample Weight: 1000846 8082
Injected On: 7/26/2012 10:08:20 PM Dilution Factor: 10
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.786	161664	.189	TCX	3.629	73075	.203	TCX
9.091	80366	.2	DCB	8.571	65941	.2	DCB

Files:
Area File: 2p7207.020.RAW
Area File: 2p7207B.020.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7207.CAL
Calibration File B: 1P7207b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/26/2012 10:18:45 PM
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ASX73 1600

IBLKX1224C QHPIBLKQH PIBLK1220799999 SW-846 8082

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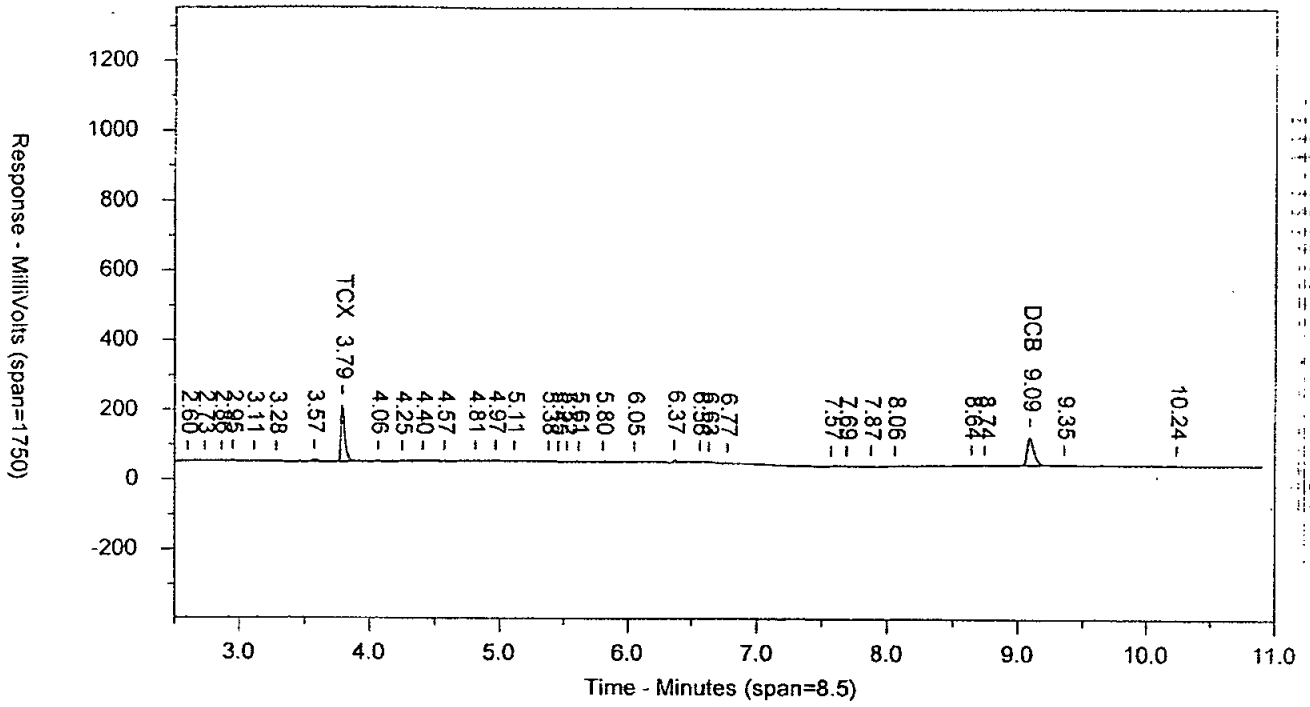

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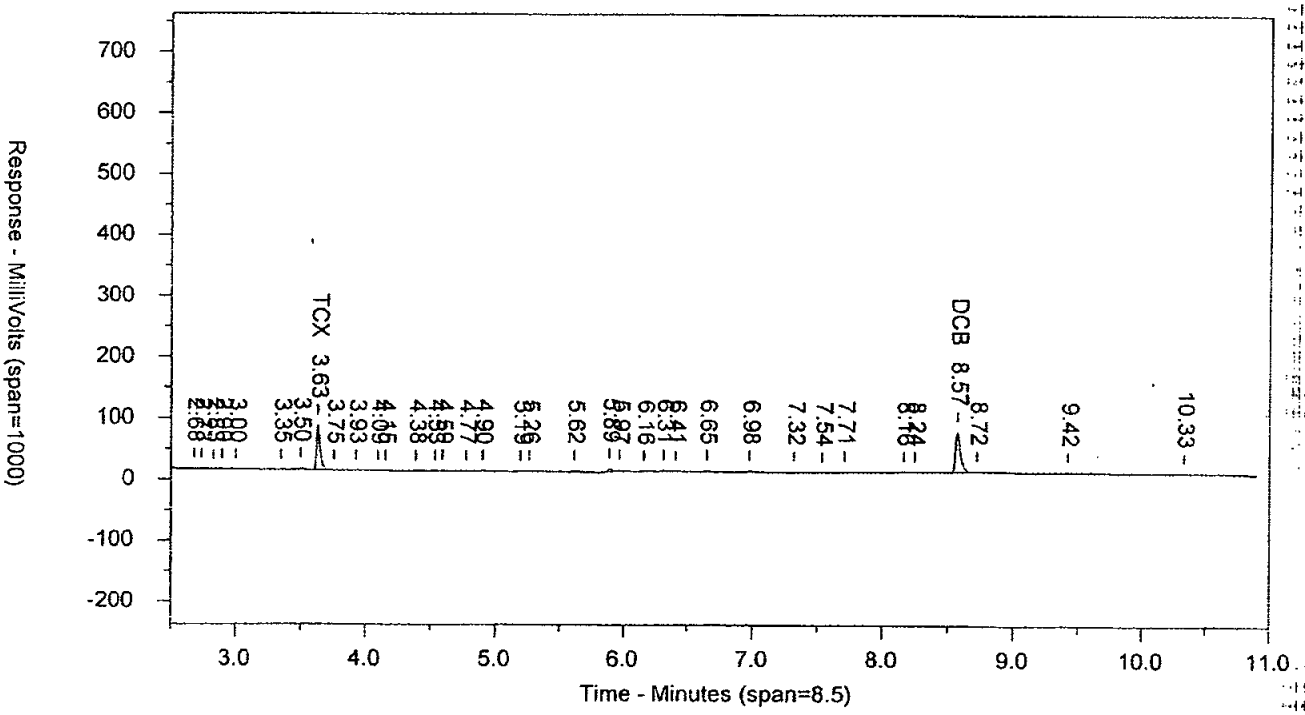

ASX73 1601

RT A	Compound A	Height A	Area A
5.334		2434	2544
5.451		80249	282904
5.535		2657	1635
5.56		16855	20070
5.632		1911	4092
5.687		1451	2591
5.699		7468	11903
5.77		13831	32781
5.914		2679	7885
5.98		42983	134439
6.108		3684	22686
6.118		1935	1086
6.181		1997	2693
6.24		1436	1614
6.338		26958	79382
6.416		4082	22492
6.478		2698	1730
6.523		2230	2262
6.565		25248	32231
6.623		5416	7045
6.717		5800	22297
6.764		1356	1541
6.824		6359	12606
6.891		2986	3265
6.978		1176	5513
7.028		18856	24751
7.099		3054	1130
7.133		1877	600
7.162		715	1300
7.201	DCB	1972196	2691718
7.257		2924	1452
7.278		1748	1490
7.317		2369	1489
7.382		2239	579
7.423		2280	2196
7.5		1647	1464
7.542		2652	1483
7.565		6319	7762
7.621		2355	3710
7.647		11229	24416
7.766		1177	1509
7.884		1973	1445
7.923		1599	1198
7.95		2175	1288
7.997		1654	636
8.08		2124	1564
8.11		2725	828
8.126		2135	2134
8.146		2580	2712
8.186		2156	1124
8.244		1912	980
8.263		3851	5994
8.512		2524	5797
8.569		2912	3608
8.614		2811	1676
8.664		11817	30944

ASX73 1602

LANCASTER LABORATORIES

Sample Number: IBLKX1224C AAPIBLKAA PIBLK1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 12:44:08 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0005.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.512		18703	7711
2.524		88758	106806
2.541		227816	377171
2.619		345735	1048525
2.657		251952	225566
2.677		212159	226232
2.712		167181	435327
2.725		150634	77783
2.75		104983	166895
2.776		52320	42304
2.808		18926	14911
2.823		8449	3856
2.872		20055	46977
2.981		415504	1967832
3.036		32633	31111
3.067	TCX	73873460	50058040
3.181		27241	21667
3.195		64666	59720
3.223		233694	205691
3.274		79116	230952
3.295		932234	745385
3.348		24134	16154
3.38		4838	5835
3.398		15417	5089
3.417		194456	146119
3.443		21493	28456
3.51		256916	324104
3.595		248998	1109558
3.633		73564	47176
3.654		47208	30469
3.684		24936	19357
3.705		38563	37016
3.728		52394	38661
3.752		143219	98523
3.773		74747	32251
3.788		435023	363866
3.852		214256	692420
3.881		146852	169556
3.92		48806	47308
3.957		11197	2377
3.969		16472	3370
3.981		29681	13172
4		74733	81744
4.028		27144	15493
4.066		577835	968488
4.133		198036	630617
4.162		541615	621878
4.211		451831	1025682
4.245		53001	49100
4.275		30894	24284
4.327		441959	1681412
4.421		314471	839361
4.466		31684	42300
4.497		36163	55696

ASX79 1693

RT B	Compound B	Height B	Area B
4.56		17527	10143
4.588		89857	127282
4.65		296948	481642
4.717		1071384	1931477
4.778		537886	1842217
4.825		52551	113354
4.888		100063	168461
4.931		20442	23628
4.949		288911	739952
5.041		172982	687928
5.093		57247	125831
5.126		16939	19929
5.193		23753	25017
5.228		237078	272884
5.273		346927	381397
5.348		155823	520172
5.421		18997	126778
5.443		15751	15241
5.468		45664	58733
5.513		13005	12988
5.538		9427	4386
5.559		58399	354521
5.638		156248	300200
5.698		25880	55373
5.723		15499	5466
5.738		22919	16605
5.789		33561	47998
5.822		91758	210096
5.872		222994	292155
5.936		74013	171195
5.975		51062	69239
6.011		49437	70856
6.084		31933	53719
6.196		212934	273159
6.271		41527	132881
6.296		9014	5325
6.329		10842	11055
6.372		15610	10015
6.404		44883	60082
6.483		48942	129315
6.536		10260	8679
6.557		37661	41606
6.615		265962	450809
6.715		10725	14368
6.728		9720	3984
6.785	DCB	31526620	31159400
6.884		9703	3103
6.902		15549	27590
6.973		10187	12774
7.043		21881	33479
7.095		7453	4476
7.159		42596	56054
7.222		20181	14638
7.246		20071	23167
7.327		94201	154081
7.406		29235	35676
7.455		12045	12634
7.517		66408	83395
7.564		6430	7225
7.578		9243	6461
7.669		9089	11446
7.715		7309	3877
7.751		9698	4167
7.767		38676	46905
7.876		7709	5741
7.901		10177	4064

ASX73 1604

RT B	Compound B	Height B	Area B
7.924		10285	3896
7.96		26496	49176
7.999		9563	6465
8.035		52918	87751
8.09		8700	6303
8.127		5019	3442
8.171		9151	6715
8.23		9299	1803
8.257		9666	4938
8.337		7218	4016
8.349		16453	32629
8.452		22265	102441
8.478		8420	1828
8.522		6503	13186
8.575		11077	7219
8.635		10014	16971
8.668		9270	12593

IBLKX1224C AAPIBLKAA PIBLK1220399999

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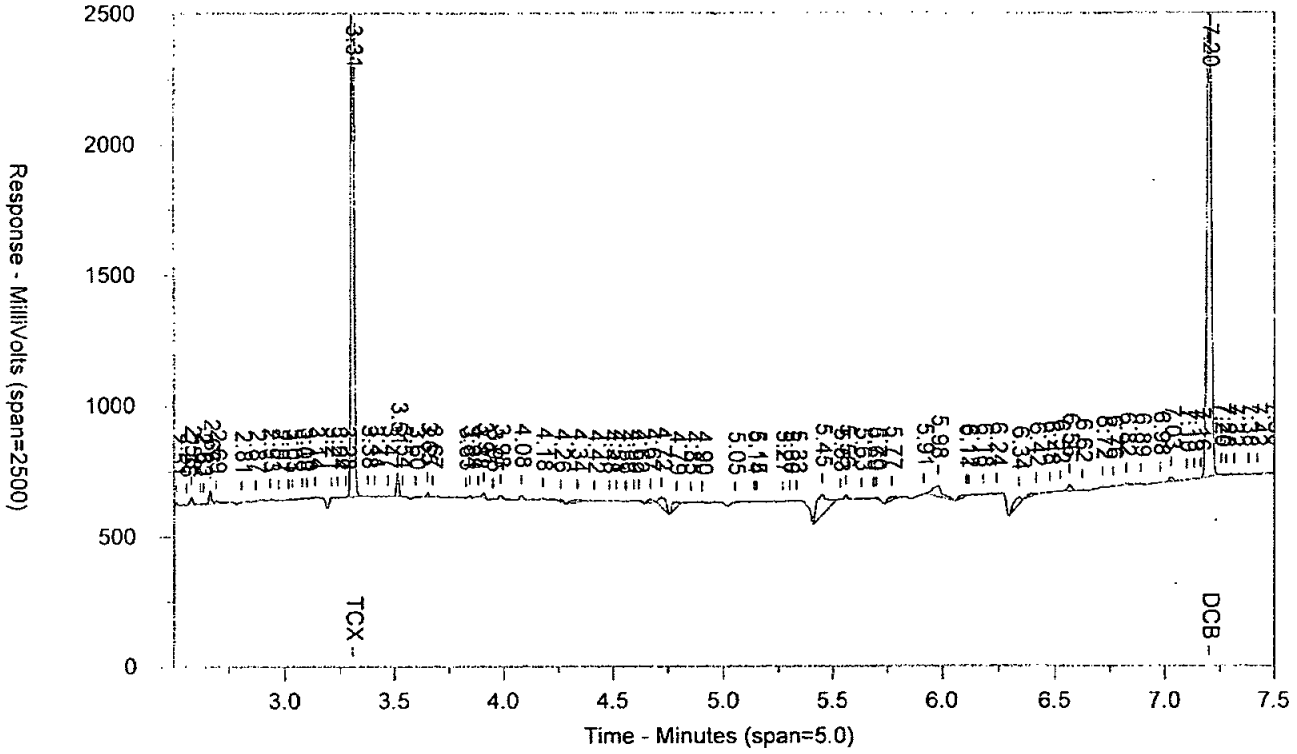

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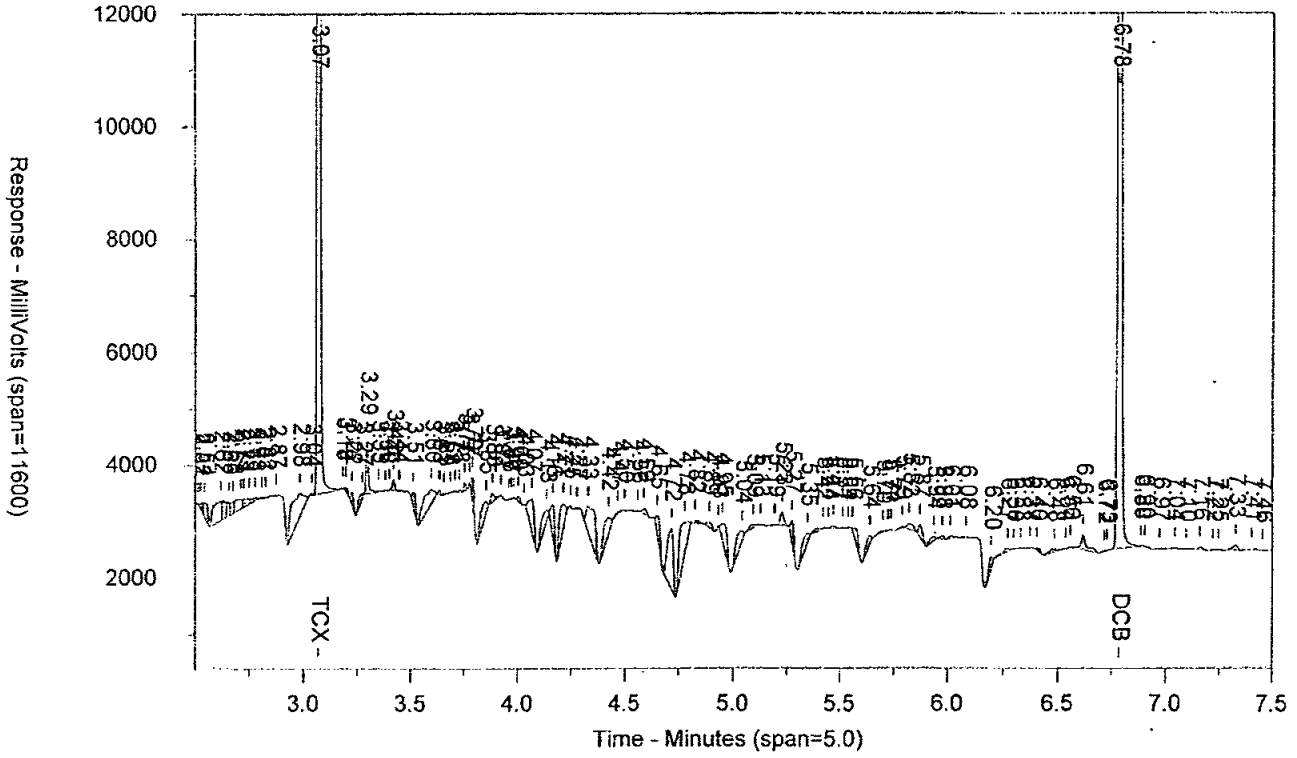

ASX73 1606

LANCASTER LABORATORIES

Sample Number: IBLKX1224C AAPIBLKAA PIBLK1220399999 Sample Weight: 1000
Injected On: 7/23/2012 12:44:08 PM Dilution Factor: 10
Instrument ID: CP20-17342
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
3.307	5005538	104.937	TCX	3.067	73873460	.205	TCX
7.201	1972196	.196	DCB	6.785	31526620	.175	DCB

Files:
Area File: 1p20205.0005.RAW
Area File: 1p20205B.0005.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 12:52:51 PM
File Reported On: 7/23/2012 at 4:27:04 PM

IBLKX1224C AAPIBLKAA PIBLK1220399999

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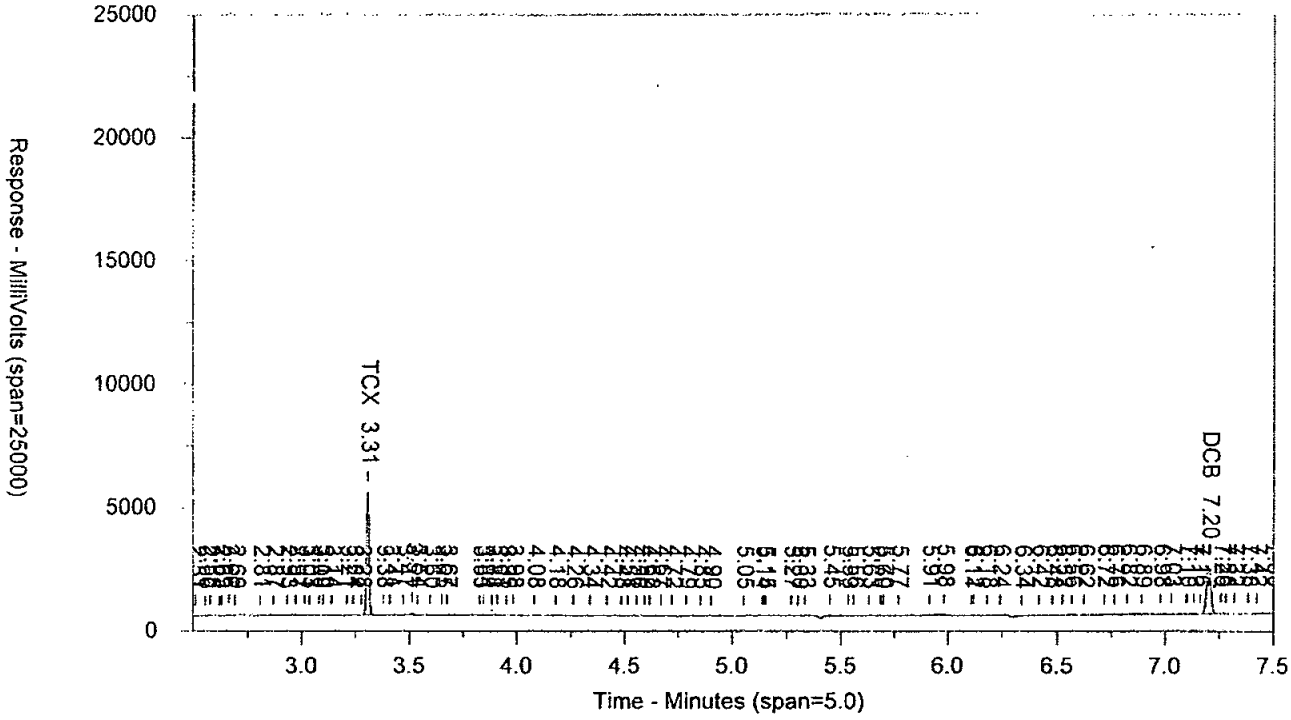

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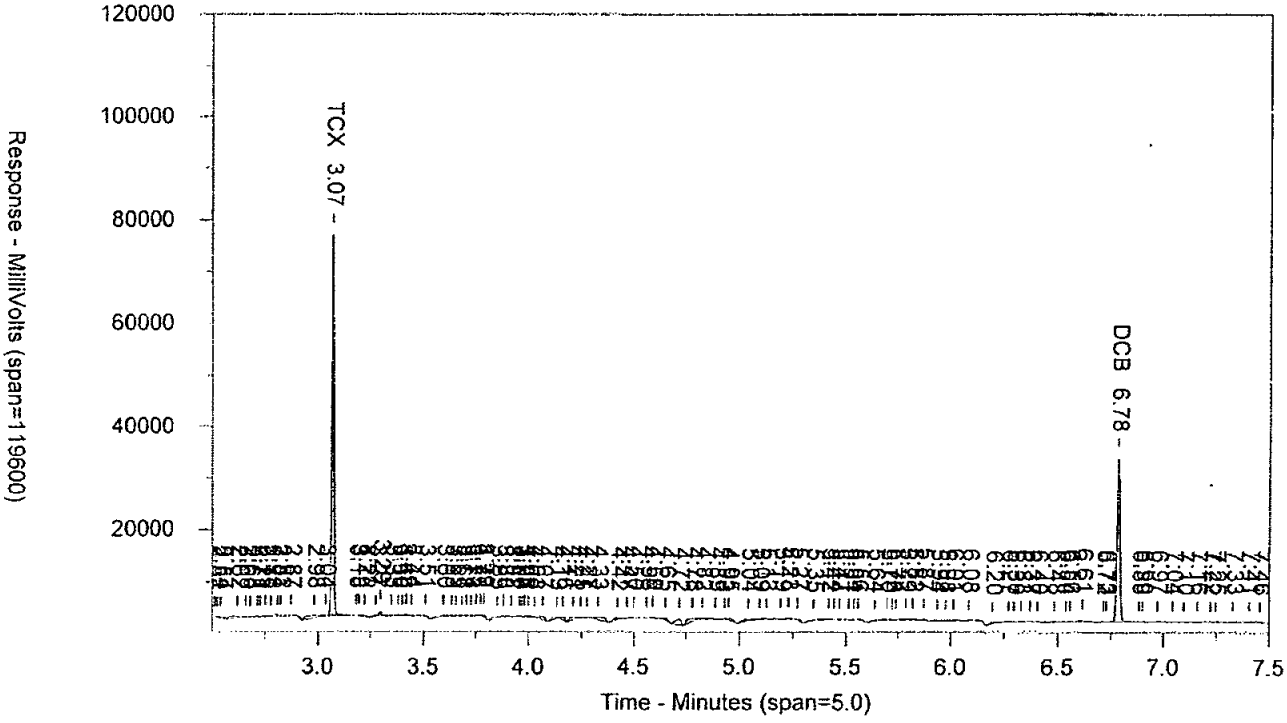

LANCASTER LABORATORIES

Sample Number: AR1611224B AAAR161AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 12:55:31 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0006.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.512		11018	7962
2.555		3221	2892
2.577		5301	3645
2.642		1667	2546
2.664		46220	35614
2.692		3896	4249
2.744		2424	1437
2.829		3159	5534
2.886		4132	8006
2.929		7812	9289
2.969		1684	784
3.024		3600	3230
3.056		2076	793
3.077		2540	2243
3.135		14074	18367
3.21		4235	4376
3.307	TCX	1222961	924873
3.33		9841	8633
3.378		4674	4325
3.407		4068	4973
3.458		48053	48474
3.516		81658	65478
3.567		314103	234048
3.63		4567	3062
3.665		42724	46964
3.726		3298	2227
3.791		297593	212532
3.811		138599	84975
3.851		38208	27177
3.869		7022	2689
3.885		25264	14860
3.919		358572	300026
3.987		1871	904
4.001		10797	7553
4.038		80235	56285
4.057		41705	24823
4.08		1715	949
4.106		173059	114942
4.119		310202	196562
4.161		402104	368687
4.227		358823	323529
4.272		23379	17568
4.299		243203	209328
4.329		167598	162988
4.354		47456	28725
4.414		1414	404
4.439		265007	233785
4.467		97391	74628
4.5		109809	91203
4.539		275369	325075
4.584		92508	86148
4.634		13438	13193
4.677		19305	18613
4.715		258097	230126

ASX73 1699

RT A	Compound A	Height A	Area A
4.735		57587	37178
4.764		81990	70688
4.836		38618	36854
4.883		276433	300714
4.987		1609	645
5.014		2189	581
5.038		10075	9688
5.095		24664	18271
5.114		78716	64643
5.16		151952	168578
5.208		264011	332735
5.248		57444	44931
5.289		565177	576997
5.327		2641	2516
5.381		99109	114177
5.439		129970	170415
5.492		520609	477405
5.513		97332	65994
5.547		136545	130209
5.585		310279	377191
5.666		63238	73565
5.702		695303	802340
5.764		369210	374196
5.808		241496	251004
5.93		422939	607896
5.988		198290	188270
6.027		121733	136275
6.069		17627	13951
6.11		139504	147919
6.165		823531	900258
6.195		16974	15477
6.23		1734	1124
6.263		33996	65884
6.374		487870	633774
6.425		146648	287489
6.522		3474	3898
6.565		25318	29095
6.622		12943	10688
6.653		91981	92080
6.709		2542	2971
6.771		3475	4482
6.809		214537	238325
6.853		12325	11716
6.953		2918	1343
7.027		70475	88315
7.113		2827	5358
7.139		1864	633
7.202	DCB	520218	734778
7.342		3372	586
7.352		2807	1046
7.411		37626	65923
7.503		1957	2758
7.526		2089	781
7.538		2380	1219
7.595		1659	663
7.648		11688	19598
7.76		2091	1319
7.797		2311	993
7.811		3069	2338
7.875		1888	613
7.908		2399	1825
7.918		2808	1408
7.935		2343	1454
7.968		1628	472
8		2432	600
8.049		1918	1871

ASX73 1610

RT A	Compound A	Height A	Area A
8.085		2002	1282
8.133		2979	1776
8.192		2185	633
8.261		3096	3818
8.368		1427	2303
8.39		3007	2589
8.441		1877	1393
8.475		1645	366
8.516		1909	1203
8.581		2773	2670
8.645		1488	828

VASX73 1651

LANCASTER LABORATORIES

Sample Number: AR1611224B AAAR161AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 12:55:31 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0006.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.524		18995	12157
2.549		24601	18030
2.57		28490	20106
2.615		19769	14275
2.635		28352	30527
2.676		23448	20853
2.693		31324	36579
2.737		57997	49336
2.782		21089	26448
2.809		40633	41744
2.834		14630	10135
2.845		20161	11196
2.878		29802	40652
2.913		27176	25930
2.946		92361	143662
2.981		187359	250005
3.028		20659	6247
3.068	TCX	15902530	10608730
3.111		302146	248751
3.148		80875	54357
3.175		17742	5292
3.198		269364	232578
3.241		642452	661302
3.305		764089	670661
3.326		30828	10387
3.36		3256511	2398482
3.397		17502	6736
3.419		45286	23325
3.444		16538	15809
3.478		457876	355336
3.513		81135	58194
3.539		79911	79055
3.574		2662992	1561566
3.587		901438	394370
3.629		541257	387019
3.654		232469	140205
3.679		355805	214374
3.705		3724033	3039801
3.74		39419	21177
3.754		88746	54958
3.788		1120528	741299
3.806		558197	304482
3.836		22608	13853
3.862		2339732	1271719
3.874		4451688	2443793
3.912		4172805	3836562
3.996		4430370	3410366
4.028		2751730	1964159
4.057		2964297	2250453
4.079		904098	584762
4.146		9223	2200
4.176		2037647	1563300
4.206		1332169	922694
4.229		1148593	833999

ASX73 1612

RT B	Compound B	Height B	Area B
4.266		495528	288516
4.284		3002136	2138810
4.334		1180887	1162265
4.38		149994	144887
4.407		864295	627437
4.432		3783508	2986425
4.46		948860	754681
4.5		484542	490829
4.541		3128062	2757001
4.59		129615	125142
4.607		129058	95181
4.656		62373	87070
4.711		489847	859221
4.776		1075608	1753058
4.831		310412	256493
4.857		2785349	2803809
4.888		1517756	1770124
4.946		6903764	6683072
4.994		127704	116963
5.023		526685	396503
5.048		1411370	1388484
5.094		8073890	8267616
5.172		11621	3950
5.213		7208451	7514769
5.275		821221	784024
5.309		2031663	1882580
5.349		7205677	6920218
5.381		3770721	3211506
5.422		2922640	2657853
5.467		29390	29268
5.528		1154406	1268352
5.58		5323535	4914436
5.609		672692	504668
5.657		2831532	2886931
5.693		1072499	835750
5.712		598879	401833
5.769		12138320	12072400
5.81		271754	252428
5.854		330923	290401
5.886		326487	338470
5.986		2683491	3349815
6.033		8440573	11421780
6.196		237075	297956
6.229		204384	188352
6.262		86111	82247
6.311		1111081	1121231
6.411		2526330	2377203
6.441		97701	80825
6.5		28046	26008
6.555		37717	33352
6.616		890875	925793
6.706		12279	6746
6.785	DCB	7141550	7549781
6.978		12765	13887
7.044		24187	44466
7.121		8484	2541
7.155		13089	13783
7.244		234603	298417
7.327		93129	159478
7.404		37176	71606
7.471		8363	5167
7.487		8920	1937
7.516		78779	122996
7.574		14189	23504
7.732		8253	3189
7.786		7487	2412

ASX73 1613

RT B	Compound B	Height B	Area B
7.811		7041	3374
7.855		8450	9499
7.919		9313	9823
7.931		9586	3158
7.964		17299	33863
8.026		8037	4477
8.039		8545	3920
8.086		12953	16331
8.141		11695	8496
8.177		9076	5985
8.24		5630	5766
8.29		6960	3542
8.346		6730	12459
8.361		11481	8797
8.425		7423	9646
8.456		7911	4105
8.505		5612	6930
8.55		10569	6420
8.599		11642	10948
8.624		10055	8790
8.653		6983	2110
8.682		11532	7208

AR1611224B AAAR161AA ICAL 1220399999

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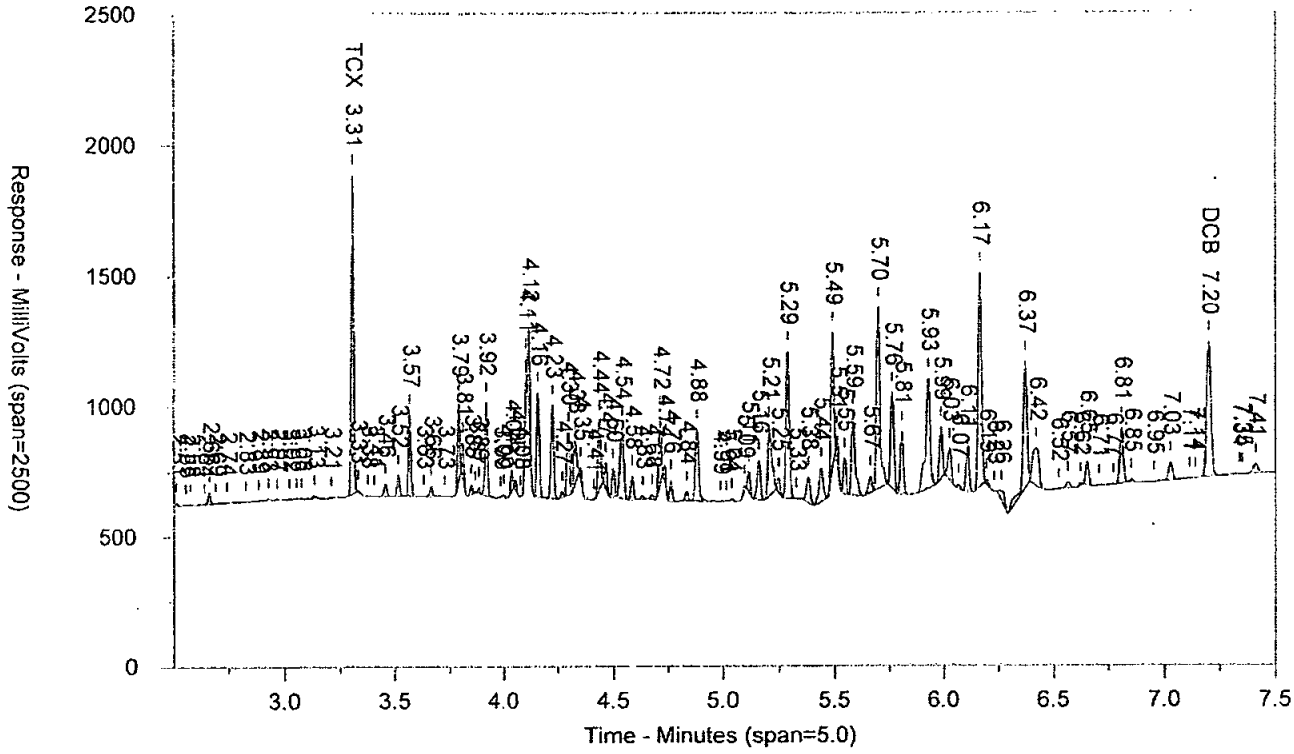

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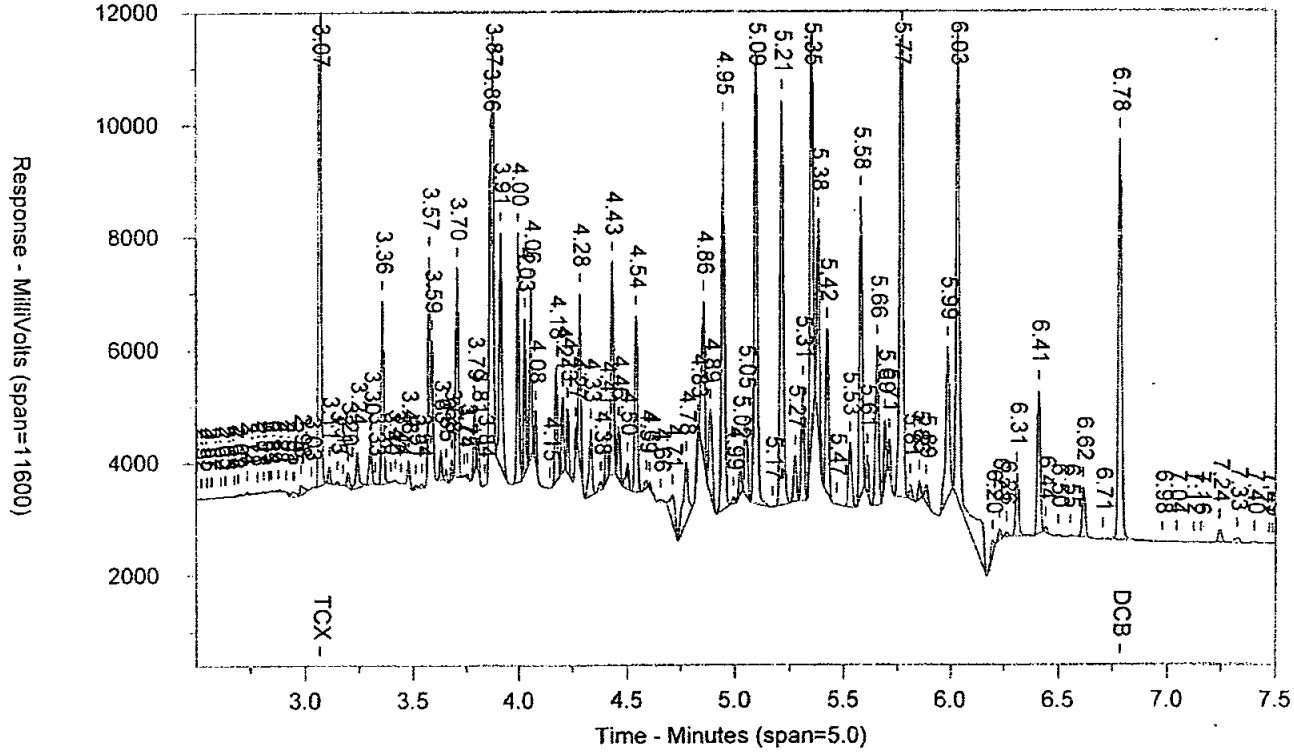

ASX73 1615

LANCASTER LABORATORIES

Sample Number: AR1611224B AAAR161AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 12:55:31 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	1222961	2563.846	TCX	3.068	15902530	4.407	TCX
7.202	520218	5.173	DCB	6.785	7141550	3.973	DCB

Files:
Area File: 1p20205.0006.RAW
Area File: 1p20205B.0006.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 1:04:14 PM
File Reported On: 7/23/2012 at 4:27:10 PM

AR1611224B AAAR161AA ICAL 1220399999

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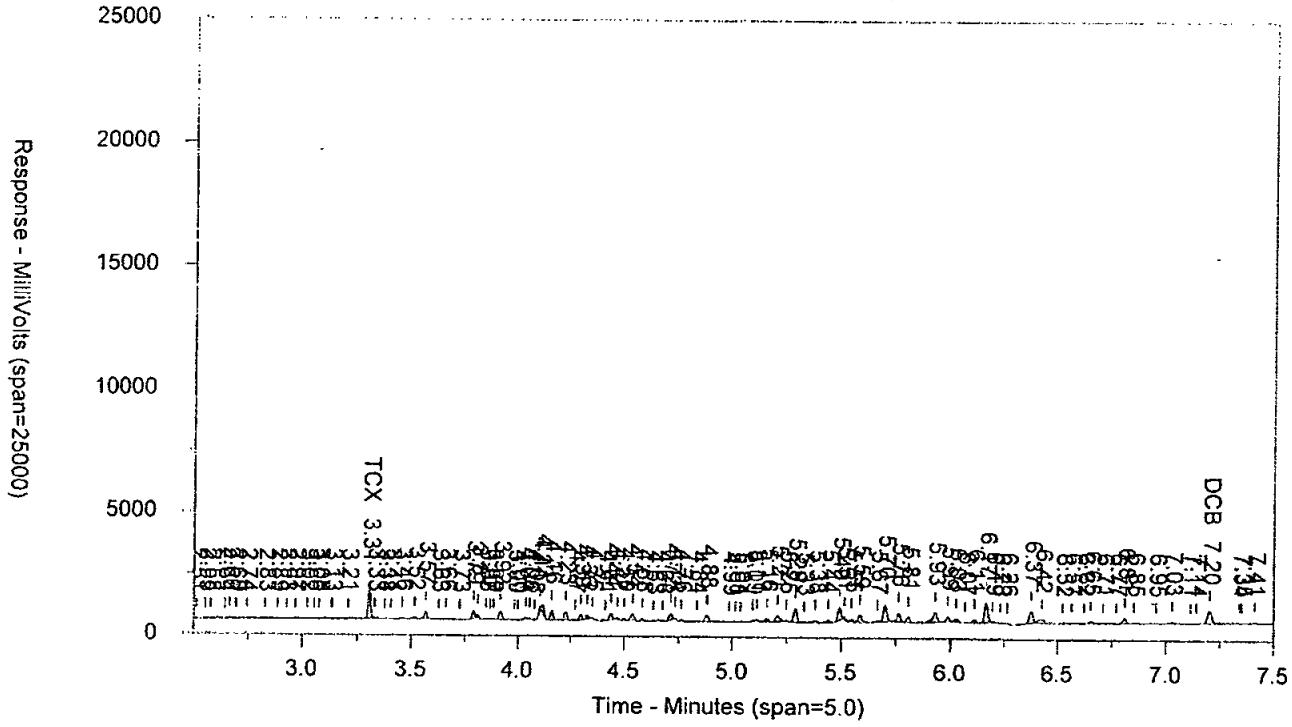

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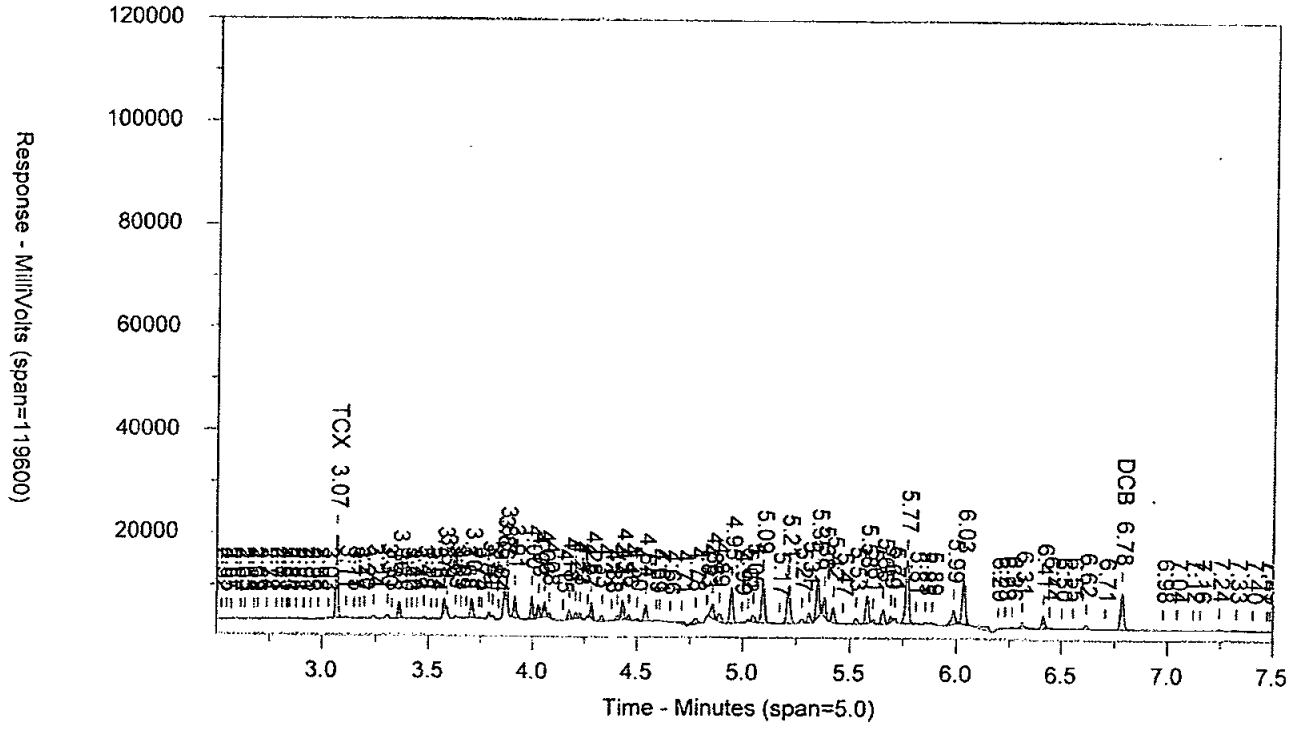

ASX73 1617

LANCASTER LABORATORIES

Sample Number: AR1621224B AAAR162AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 1:06:57 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0007.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.511		7094	5080
2.557		4773	4659
2.578		32188	25680
2.632		2238	1553
2.664		48377	37402
2.693		13984	13364
2.752		2732	3917
2.818		1899	783
2.845		1821	658
2.869		2624	1453
2.932		9929	10029
2.977		3336	4439
3.023		3379	2027
3.102		2659	2423
3.133		14729	22279
3.216		4193	8278
3.308	TCX	5238544	3966929
3.409		4676	3416
3.457		94436	88253
3.516		196550	156584
3.567		555502	432933
3.636		4350	2057
3.665		77654	78785
3.791		541351	375198
3.811		256209	159127
3.85		75547	51360
3.869		12244	5014
3.885		48784	29686
3.919		621160	546171
3.954		3995	1849
3.986		5510	4845
3.999		18010	10814
4.038		148882	106584
4.056		80183	48051
4.081		2247	521
4.106		291287	203457
4.119		595153	365586
4.161		722460	662737
4.228		629915	585269
4.273		45016	33923
4.299		429211	373889
4.329		311113	300318
4.354		79281	49920
4.439		475304	414674
4.467		163824	129183
4.5		195008	169770
4.54		504341	586515
4.586		167141	155366
4.633		24828	24278
4.677		33976	33160
4.715		441437	394813
4.736		105832	64609
4.764		152167	128180
4.811		1536	904

ASX73 1618

RT A	Compound A	Height A	Area A
4.836		73146	72673
4.883		493318	543492
4.96		3561	3616
4.996		1847	994
5.038		20820	19967
5.095		40657	32809
5.114		137705	115233
5.161		278540	282698
5.21		468516	584568
5.249		102581	82306
5.289		941899	1011088
5.339		3167	1815
5.382		169562	193598
5.44		220315	259951
5.492		865158	813890
5.513		149892	104113
5.547		235687	232404
5.586		552298	673975
5.665		116597	137908
5.703		1207656	1400474
5.765		641889	655974
5.808		431250	443616
5.908		26251	36423
5.93		609455	612340
5.989		376329	371380
6.028		203451	204471
6.071		39573	39192
6.11		269972	272867
6.166		1467124	1582073
6.196		32708	28643
6.252		17304	77043
6.376		855667	975434
6.428		268749	515983
6.484		1891	655
6.522		4452	3000
6.567		51288	59252
6.625		22234	21593
6.653		160934	167582
6.717		3318	3263
6.748		2188	1487
6.765		2781	1620
6.809		389843	434055
6.856		23659	25182
6.959		1334	1448
7.029		134267	170975
7.109		1804	1641
7.138		1135	356
7.203	DCB	1979328	2783311
7.298		2087	1522
7.315		2612	971
7.412		24286	39271
7.559		918	3929
7.608		3692	2514
7.649		10260	16943
7.712		2910	4412
7.795		2133	3475
7.846		2038	815
7.872		2062	1108
7.925		2731	1969
8.019		2391	1808
8.072		1466	1972
8.11		2058	864
8.174		1868	867
8.216		2285	965
8.229		2389	725
8.258		3869	6690

ASX73 1619

RT A	Compound A	Height A	Area A
8.34		2933	2475
8.373		2692	1813
8.405		2424	895
8.432		2141	1083
8.462		2242	2093
8.495		3380	4071
8.589		2623	972
8.631		2290	3234
8.654		1934	618

ASX73 1659

LANCASTER LABORATORIES

Sample Number: AR1621224B AAAR162AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 1:06:57 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0007.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.526		26931	22836
2.565		24762	31820
2.571		35501	24754
2.616		20818	9697
2.636		19646	14176
2.674		15219	3762
2.695		30333	28169
2.716		20867	8788
2.733		82557	69218
2.808		37910	32891
2.844		14878	14290
2.865		14810	4557
2.883		16154	9249
2.915		34263	21206
2.941		77283	119012
2.98		217513	292468
3.031		31244	26527
3.067	TCX	77745200	52522110
3.11		530005	391005
3.182		13801	16062
3.197		163694	139986
3.24		1156349	1082198
3.303		1461487	1641660
3.359		6091203	4409304
3.417		244288	173799
3.446		22507	9301
3.458		8722	2808
3.477		844400	619958
3.514		65253	48389
3.538		74299	59680
3.574		4870309	2813801
3.587		1683927	762119
3.628		951673	691613
3.653		399000	255584
3.679		635822	389912
3.705		7031676	5704650
3.739		195227	188318
3.788		1921852	1213459
3.806		991447	560211
3.834		23125	12743
3.861		4638905	2331065
3.874		8767904	4828366
3.912		7984149	7133260
3.996		8394005	6435573
4.028		5148196	3623540
4.057		5602833	4198511
4.078		1811168	1134648
4.143		26660	14287
4.176		4769370	3993827
4.205		2372132	1618737
4.228		2207285	1531617
4.266		906365	512137
4.283		5321756	3868670
4.334		2015146	2027195

ASX73 1621

RT B	Compound B	Height B	Area B
4.381		290193	259889
4.407		1490278	1088607
4.432		7166974	5654193
4.461		1622673	1260821
4.5		873432	888922
4.541		5567669	5058846
4.589		234541	219147
4.607		322649	303652
4.654		47703	83355
4.711		480324	643838
4.776		1615694	2082910
4.831		479438	401942
4.856		5057179	5368978
4.889		2671334	3061693
4.946		12949950	12356020
4.994		243718	213000
5.023		910609	696698
5.048		2548237	2459490
5.094		15219010	15139870
5.213		14287730	14150230
5.275		1421732	1404196
5.31		3688462	3362314
5.35		14611470	13369740
5.381		7466909	6160369
5.422		5424529	4976462
5.529		2067622	2334183
5.582		10054350	9245349
5.61		1151899	890571
5.657		5312035	5282884
5.693		2151092	1619285
5.714		1195216	824880
5.77		24161430	23661990
5.811		537597	452671
5.854		712800	630386
5.887		251859	230946
5.965		129115	90973
5.987		4337460	4163731
6.034		16051250	20531570
6.195		508251	520972
6.229		358699	329332
6.262		164406	161534
6.312		2007873	2038294
6.411		4612859	4431283
6.443		207427	162557
6.504		16309	9877
6.558		29534	33159
6.618		1792477	1843222
6.786	DCB	33501190	33707140
6.952		12279	7376
6.98		20035	22563
7.035		13863	14922
7.116		9791	8601
7.159		32863	35073
7.246		168121	222683
7.278		7794	3408
7.327		92851	132016
7.406		29439	48752
7.481		8661	3007
7.521		76003	123759
7.575		21036	63123
7.677		8867	6336
7.707		10304	3500
7.769		42444	88738
7.853		6189	4078
7.901		12625	4108
7.929		9949	4378

ASX73 1622

RT B	Compound B	Height B	Area B
7.958		23359	24826
7.984		18001	4492
8.036		49545	83012
8.08		11898	6240
8.116		8344	3548
8.149		12102	9705
8.182		8616	6536
8.248		11218	9856
8.287		9643	10879
8.321		7226	5681
8.359		12316	6594
8.378		8910	3131
8.411		6094	4124
8.444		8733	1776
8.47		8534	5562
8.495		10319	3345
8.513		14676	4136
8.556		11913	6097
8.57		11025	5738
8.616		9815	11519

AR1621224B AAAR162AA ICAL 1220399999

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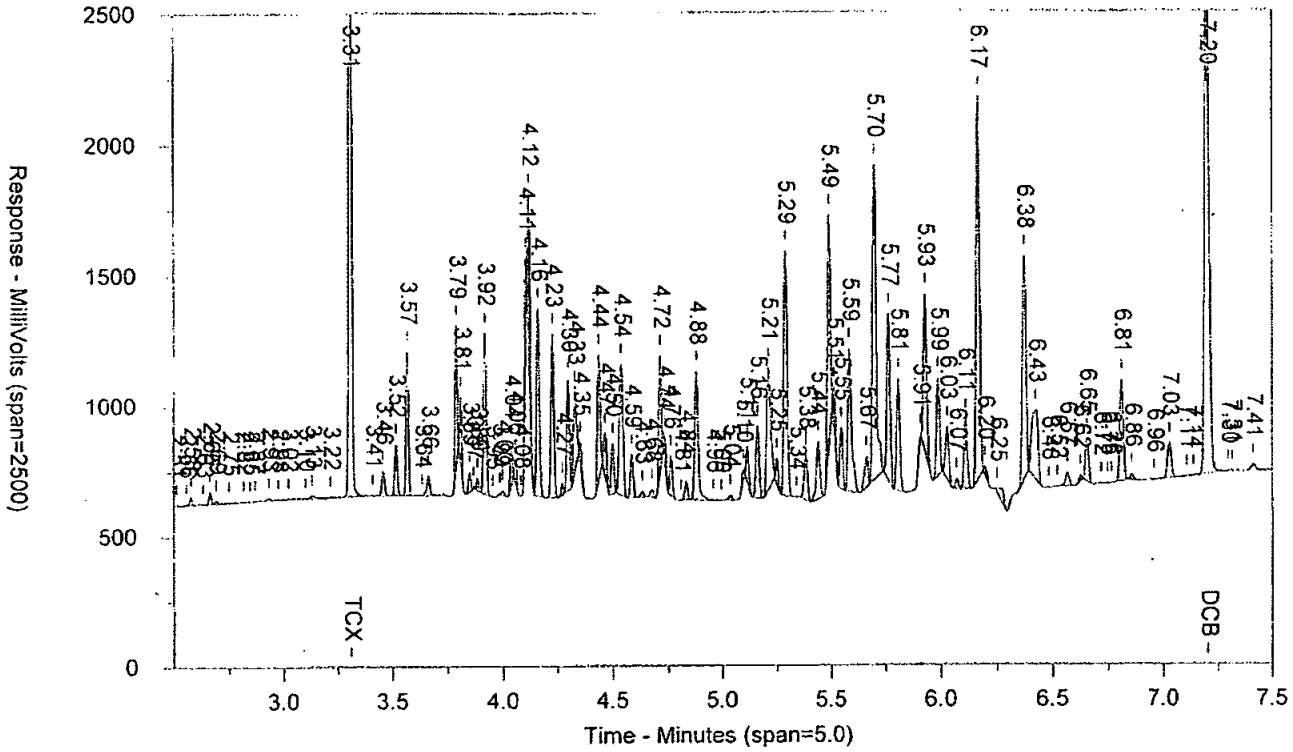

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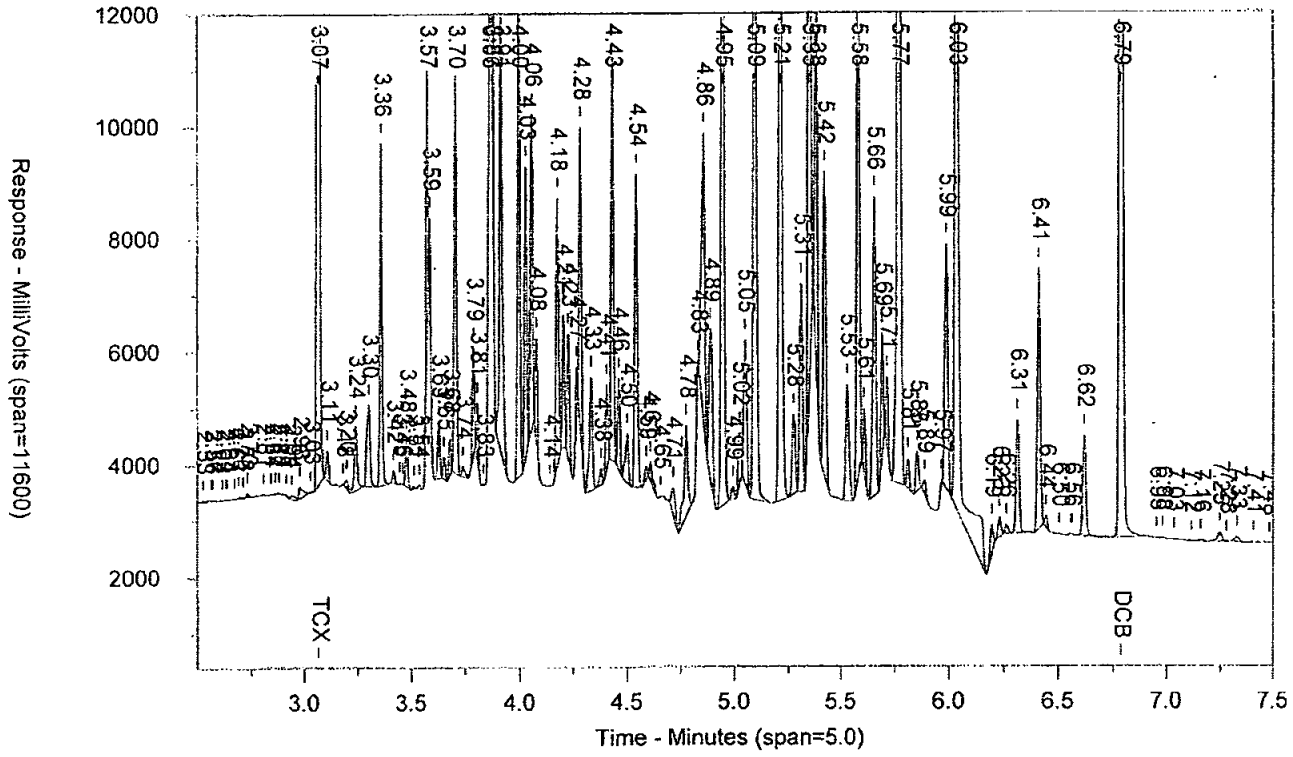

ASX73 1624

LANCASTER LABORATORIES

Sample Number: AR1621224B AAAR162AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 1:06:57 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.308	5238544	88.368	TCX	3.067	77745200	21.544	TCX
7.203	1979328	19.682	DCB	6.786	33501190	18.637	DCB

Files:
Area File: 1p20205.0007.RAW
Area File: 1p20205B.0007.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 1:15:41 PM
File Reported On: 7/23/2012 at 4:27:16 PM

AR1621224B AAAR162AA ICAL 1220399999

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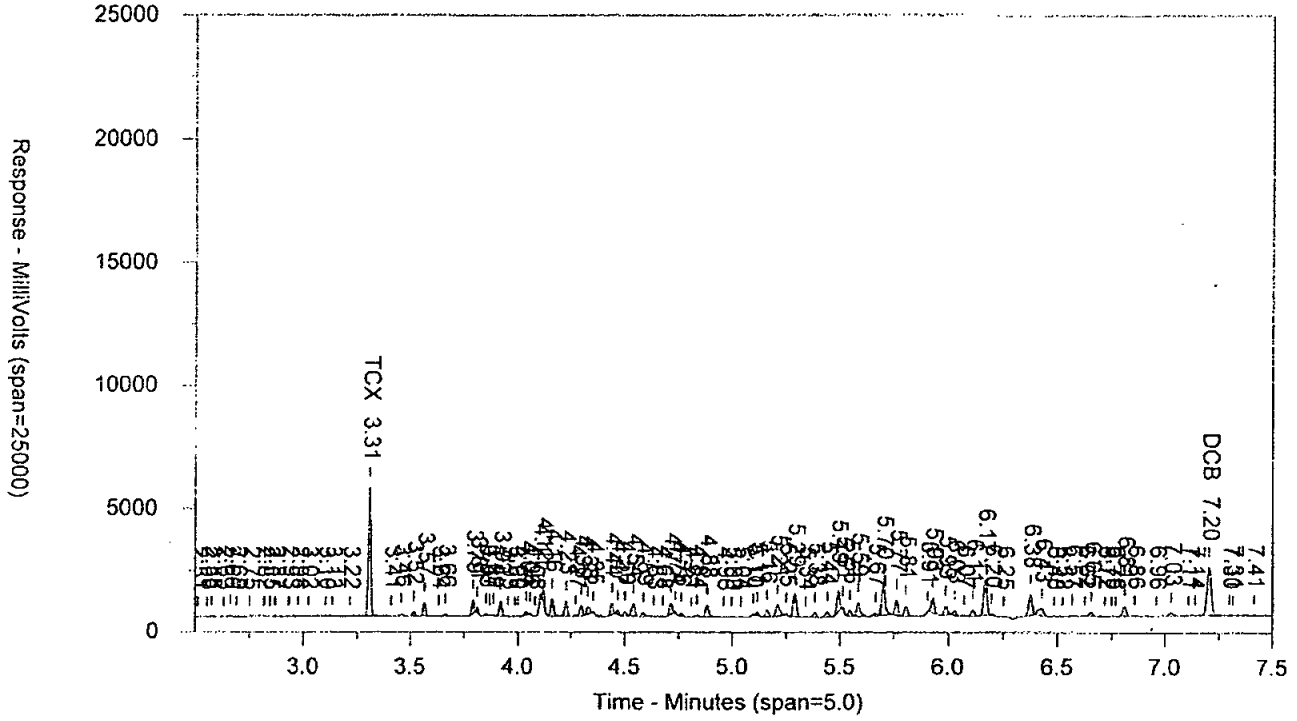

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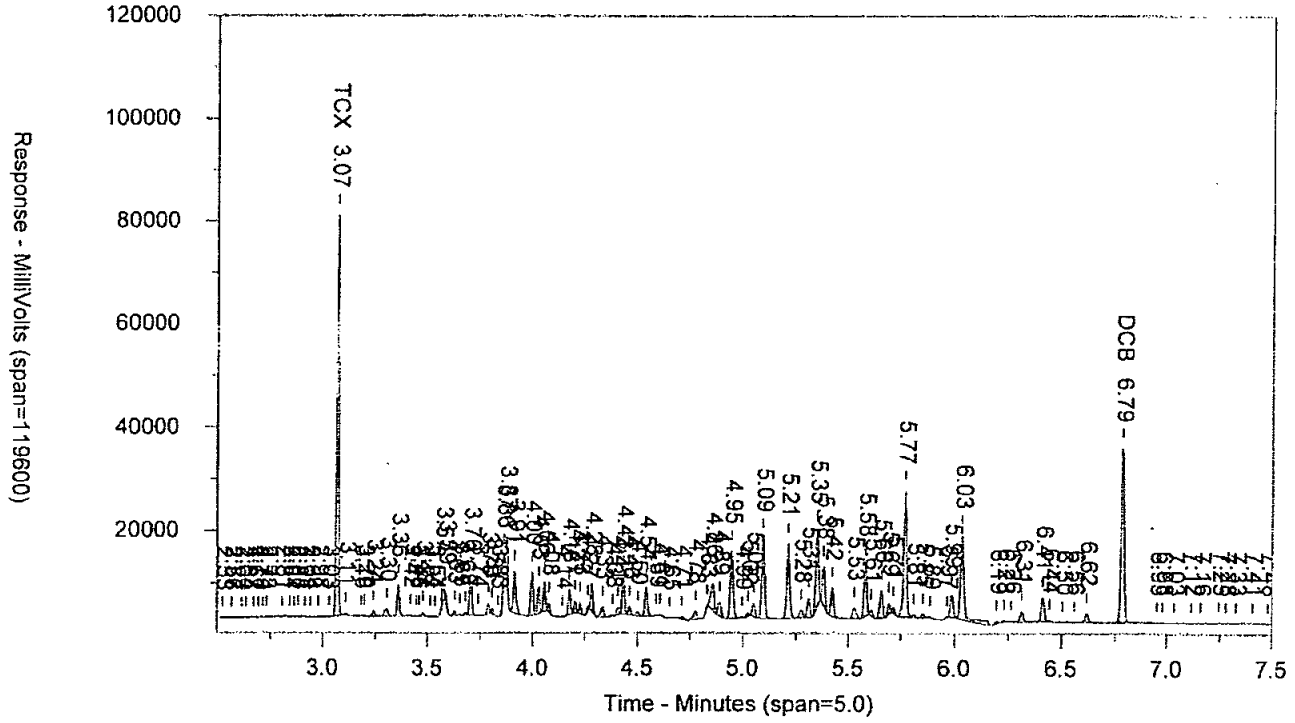

ASX73 1626

LANCASTER LABORATORIES

Sample Number: AR1631224B AAAR163AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 1:18:20 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0008.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.513		7948	5404
2.54		2525	2094
2.577		65684	51309
2.621		1600	646
2.641		1773	889
2.664		37611	29352
2.692		25852	21136
2.726		1658	835
2.781		1996	1618
2.867		2771	1932
2.888		2125	945
2.931		16834	15085
2.99		1686	1190
3.037		1748	821
3.079		1854	961
3.139		11346	12680
3.17		19691	24918
3.209		24932	49624
3.253		2023	897
3.307	TCX	10162560	7601416
3.407		4583	3376
3.457		171086	164330
3.515		364535	293362
3.566		1012927	775047
3.611		2223	676
3.664		141776	136234
3.693		3031	764
3.702		4471	2191
3.75		2377	1050
3.79		959082	671259
3.81		458307	286604
3.849		137687	93115
3.868		22093	10041
3.884		88020	58385
3.918		1179628	991972
3.954		4881	3025
3.983		14373	8652
3.998		28871	18011
4.037		277865	197375
4.055		139977	86146
4.078		9153	4010
4.104		573244	375459
4.118		1030768	657975
4.16		1315699	1209638
4.226		1169467	1077332
4.27		90818	66186
4.297		783672	668597
4.328		548621	522485
4.353		167405	104100
4.438		860398	754128
4.465		296941	237731
4.499		359859	309066
4.538		929945	1065515
4.584		307621	292399

ASX73 1627

RT A	Compound A	Height A	Area A
4.631		45002	43715
4.676		65111	60562
4.714		805093	696707
4.735		194619	117436
4.762		266093	233635
4.834		141741	140937
4.882		867048	984533
4.951		2670	3499
4.99		5054	5211
5.037		42622	42580
5.094		70369	57710
5.113		256146	217152
5.159		514778	529898
5.207		850569	1069533
5.248		192628	151988
5.288		1698519	1838413
5.336		3898	2780
5.38		312086	342409
5.437		386072	438848
5.491		1582025	1490816
5.512		284504	193563
5.546		434109	424156
5.584		1034172	1248367
5.665		218508	256336
5.7		2200104	2563264
5.763		1122193	1188737
5.807		766906	819931
5.907		44383	68285
5.928		1125029	1145937
5.987		683073	674048
6.027		381852	388151
6.069		75369	71629
6.108		498662	512560
6.165		2717260	2941280
6.195		66941	56859
6.25		24155	86290
6.374		1592497	1807138
6.426		495951	957493
6.505		1412	581
6.529		3293	3857
6.564		101647	115256
6.621		41713	39520
6.65		307039	316839
6.688		1717	454
6.716		2667	3556
6.738		1665	629
6.76		4052	4188
6.805		735264	810251
6.851		49038	51366
6.908		2289	806
6.954		2529	1895
6.986		2906	1345
7.024		250706	325045
7.075		3331	972
7.1		1342	1831
7.198	DCB	3748295	5212028
7.3		4999	7576
7.409		25788	40701
7.492		1949	735
7.561		7194	28481
7.641		9529	10968
7.704		3668	3893
7.777		3797	6243
7.873		1256	1167
7.881		2704	880
7.927		2504	1584

ASX73 1628

RT A	Compound A	Height A	Area A
7.977		2916	1689
8.015		3665	3782
8.083		2959	2122
8.139		2053	1973
8.153		2915	1168
8.211		1993	949
8.249		8384	16291
8.346		2971	761
8.369		2495	1700
8.395		1237	577
8.417		2766	1667
8.431		2670	1939
8.5		2552	5542
8.56		7266	13487
8.589		2652	741
8.637		2367	2368
8.668		3180	3032

LANCASTER LABORATORIES

Sample Number: AR1631224B AAAR163AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 1:18:20 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0008.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.552		47824	64617
2.569		87638	142823
2.611		92973	104099
2.63		115091	131254
2.652		117812	237654
2.697		163051	331096
2.733		324700	494730
2.755		217027	144449
2.768		221524	287805
2.821		31332	128724
2.852		18169	22303
2.865		16778	14320
2.946		325028	540024
2.981		31034	20622
2.993		20722	7069
3.002		14674	5573
3.038		25615	24547
3.068	TCX	146169900	105208100
3.11		895840	715833
3.145		35207	23731
3.176		22635	11791
3.197		151601	124840
3.222		14508	6547
3.24		2026446	1590516
3.273		26933	14664
3.303		2768216	3039033
3.359		11732760	8329658
3.417		453844	328437
3.477		1555918	1180087
3.513		71419	55400
3.537		72837	64516
3.573		9657644	5589863
3.586		3132969	1405175
3.628		1846733	1307491
3.652		799525	517087
3.678		1167964	713308
3.704		13594220	11089620
3.739		376832	297197
3.787		3771076	2411918
3.805		1893821	1061312
3.861		9064012	5093576
3.873		18355000	9785797
3.911		16171880	14252820
3.994		16566090	12783850
4.027		10229700	7154860
4.056		11368160	8309564
4.078		3472808	2169911
4.176		11265780	9266621
4.205		4798123	3210522
4.228		4311454	3083314
4.265		1741953	1016051
4.282		11057060	7822880
4.333		3954755	3766453
4.379		575529	493111

ASX73 1639

RT B	Compound B	Height B	Area B
4.405		3109675	2167618
4.43		14871920	11466460
4.459		3263742	2495291
4.499		1657715	1686245
4.54		11617990	9928879
4.587		419368	370756
4.607		695786	690595
4.654		21898	18789
4.667		34744	21312
4.709		722773	895582
4.775		2755082	2904323
4.83		755475	679330
4.855		10772240	10809980
4.888		5148929	5913842
4.945		26863620	24798890
4.992		432685	377628
5.021		1861796	1397596
5.047		5081826	4898004
5.093		32551750	30752580
5.212		29565140	29440470
5.274		2628169	2623430
5.308		7226485	6641817
5.349		31636560	28514600
5.379		16526640	12848900
5.42		11241440	10183660
5.485		54039	40301
5.526		4145689	4620514
5.58		21624650	19159930
5.608		2537373	1857204
5.656		10637360	10318840
5.692		4022712	3142139
5.712		2324888	1548917
5.768		51587000	50134380
5.81		942677	814059
5.852		1257017	1166916
5.886		298153	258841
5.964		230360	170035
5.985		8971888	8266505
6.032		34553760	38963590
6.192		1024674	981896
6.227		770437	662538
6.259		368715	325340
6.309		3963702	4015660
6.362		20000	17440
6.408		9584996	8836384
6.44		464875	361682
6.553		30938	42671
6.614		3421023	3450040
6.68		15137	12476
6.749		13411	9882
6.782	DCB	70454180	69947230
6.879		17906	30656
6.94		24310	22428
6.974		39375	47785
7.015		16785	8372
7.095		11810	7473
7.157		65308	73454
7.216		23135	13619
7.242		179532	196201
7.291		11988	7852
7.325		81907	103103
7.398		39174	58339
7.515		76331	107931
7.563		10048	3973
7.592		9958	7009
7.658		9662	1635

RT B	Compound B	Height B	Area B
7.718		9839	17173
7.766		82109	121622
7.81		9994	8815
7.841		9316	5029
7.88		10396	6619
7.909		8829	9462
7.95		51412	96732
8.029		96074	163343
8.088		15205	8077
8.125		10179	3501
8.144		8890	7757
8.175		13300	6053
8.207		11625	6923
8.237		9901	3180
8.248		9358	4573
8.281		7488	2266
8.331		5911	1899
8.346		12140	24885
8.416		9255	13729
8.439		8767	4018
8.448		8212	3365
8.47		8101	5305
8.511		10455	8327
8.548		11638	10629
8.633		14032	21761
8.677		11801	15712

ASX73 1632

AR1631224B AAAR163AA ICAL 1220399999

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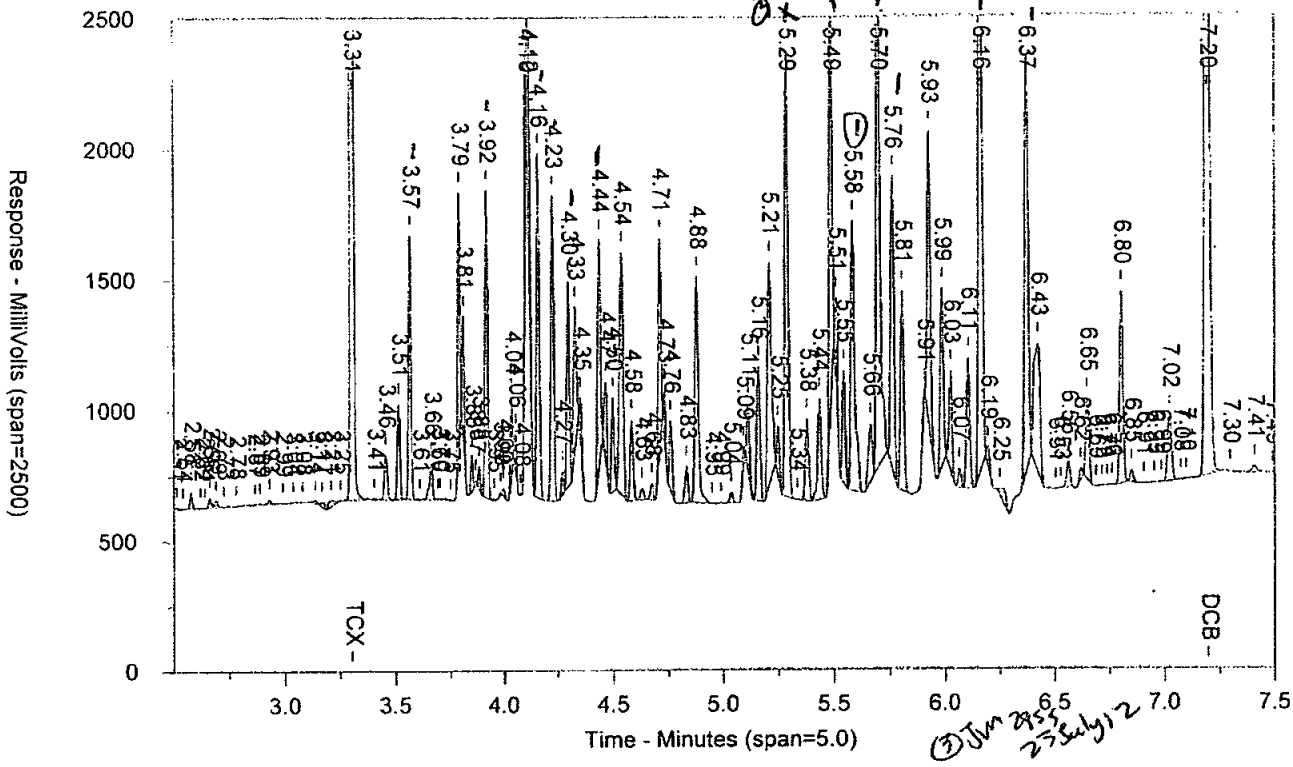

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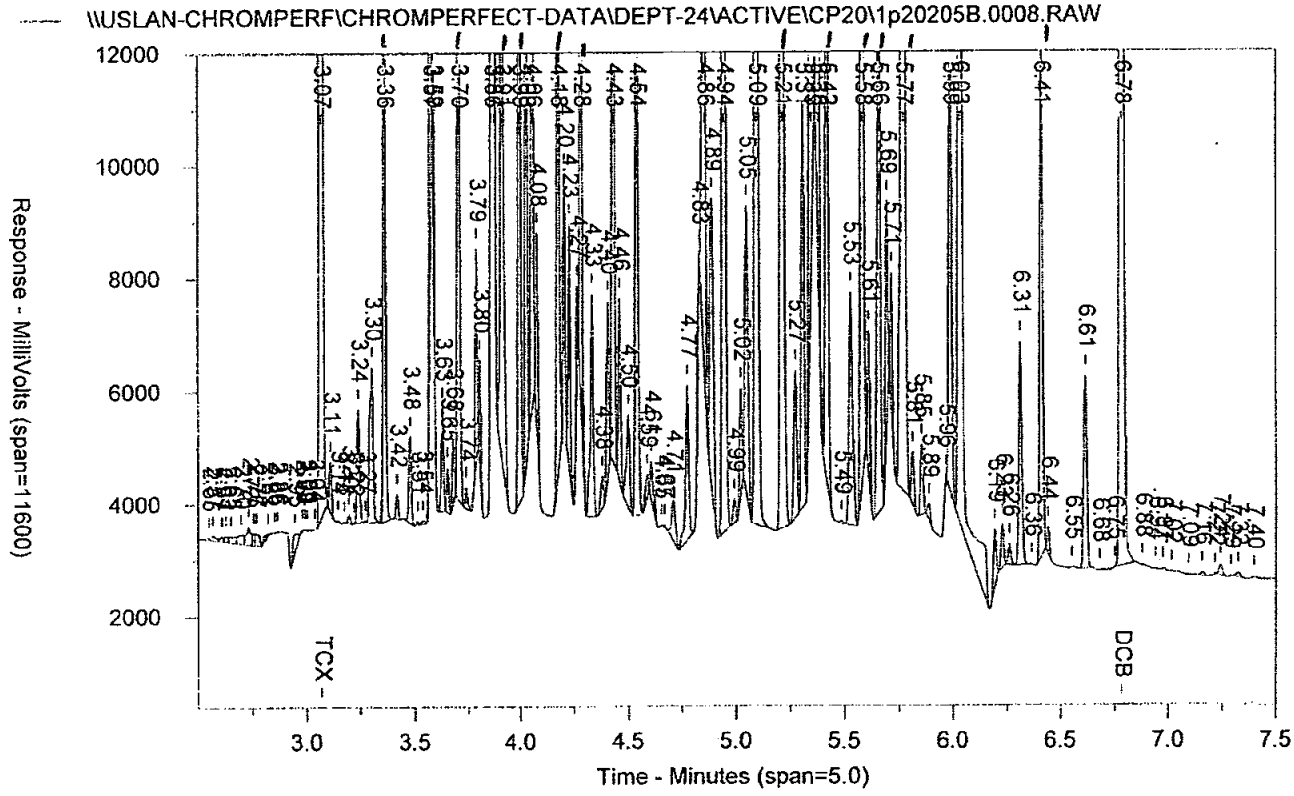

ASX79 1633

LANCASTER LABORATORIES

Sample Number: AR1631224B AAAR163AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 1:18:20 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	10162560	92.331	TCX	3.068	146169900	40.506	TCX
7.198	3748295	37.272	DCB	6.782	70454180	39.194	DCB

Files:
Area File: 1p20205.0008.RAW
Area File: 1p20205B.0008.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 1:27:03 PM
File Reported On: 7/23/2012 at 4:27:22 PM

AR1631224B AAAR163AA ICAL 1220399999

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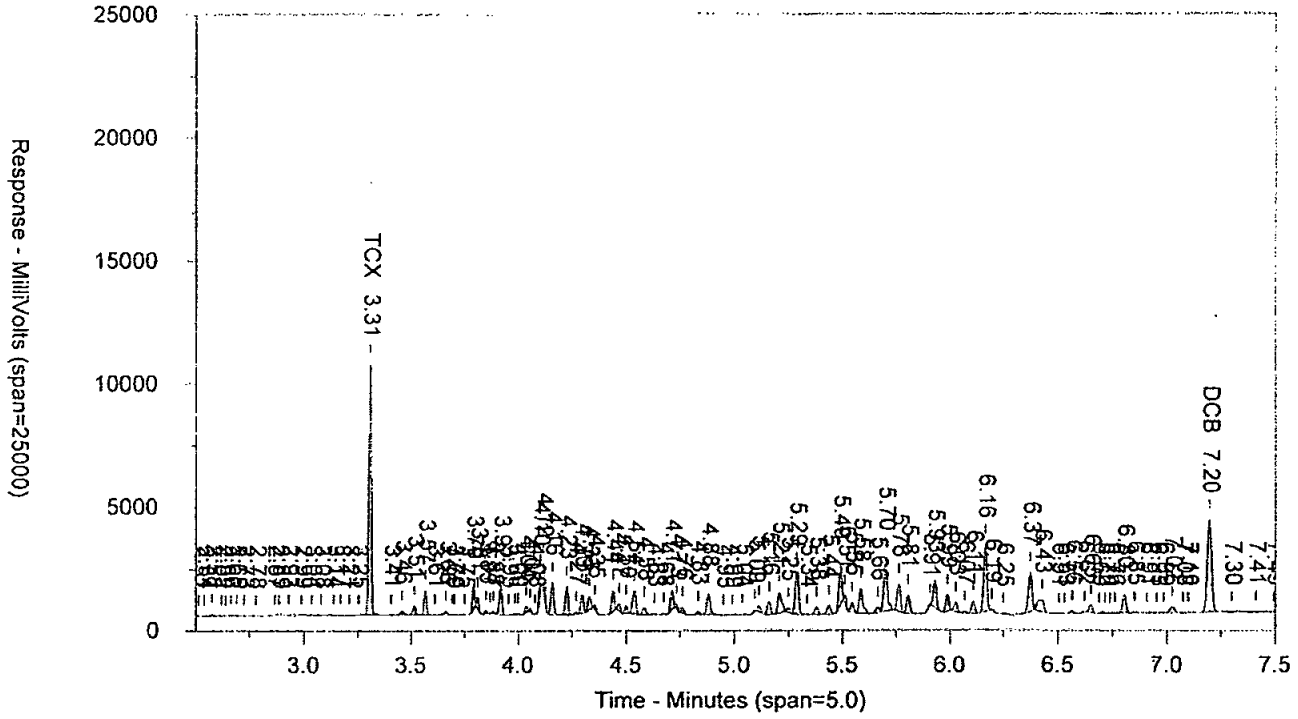

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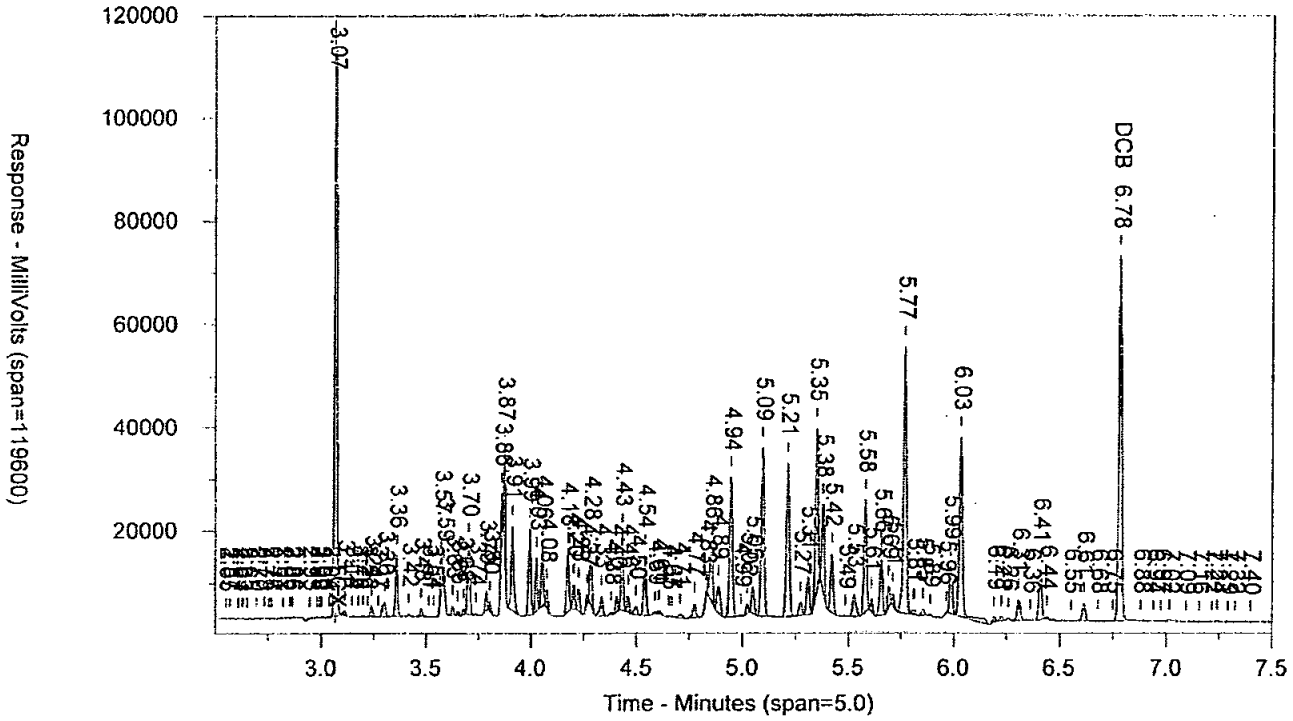

ASX73 1635

LANCASTER LABORATORIES

Sample Number: AR1641224B AAAR164AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 1:29:42 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0009.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.511		6184	4237
2.554		6882	6897
2.578		100979	78469
2.64		2794	1717
2.663		45451	33833
2.691		38107	30819
2.734		1982	1402
2.835		3084	2349
2.884		1415	754
2.93		36623	29636
2.978		2223	1716
3.023		7023	6059
3.051		901	486
3.121		1526	443
3.134		5310	3965
3.216		12610	22308
3.258		2742	1423
3.307	TCX	14873870	11271950
3.407		7672	6025
3.457		396792	384198
3.515		705322	575552
3.566		2162636	1703100
3.629		4246	1849
3.663		331062	288635
3.706		7562	5400
3.79		2020204	1458470
3.81		1010269	635161
3.849		303005	209046
3.867		55164	23981
3.883		212831	132837
3.918		2614494	2195065
3.953		15800	8979
3.982		14971	9147
3.998		82073	57184
4.037		602484	427270
4.055		328759	198761
4.104		1422576	892527
4.118		2382156	1470785
4.16		2864991	2677999
4.226		2621772	2404675
4.271		186192	135621
4.297		1656404	1420098
4.328		1200041	1139906
4.353		376184	236041
4.437		1851509	1634461
4.465		677568	532993
4.499		806882	681600
4.538		2002620	2369008
4.584		694142	661515
4.631		122744	113487
4.676		145776	139169
4.714		1729615	1498108
4.734		389579	245477
4.763		585378	521160

ASX73 1636

RT A	Compound A	Height A	Area A
4.834		320312	327067
4.882		1907896	2152952
4.965		2190	993
4.991		11238	10733
5.038		104236	102769
5.095		156153	133723
5.112		555480	452024
5.159		1099627	1163597
5.208		1781988	2291420
5.247		414602	323843
5.289		3753133	4017192
5.339		12955	10225
5.38		689309	756535
5.438		812248	934466
5.49		3590658	3289066
5.512		627811	434485
5.545		927190	905602
5.584		2287263	2746037
5.665		451421	554052
5.701		4921265	5748608
5.763		2536535	2560099
5.806		1682543	1776817
5.863		2789	1357
5.906		180128	191084
5.928		2545062	2502934
5.987		1434831	1472407
6.027		832464	836901
6.069		169028	167846
6.108		1107575	1137444
6.164		6494526	6690238
6.194		132691	130425
6.252		32769	93026
6.373		3629652	4047509
6.414		166306	243084
6.425		366253	299954
6.519		6048	5326
6.564		198656	210488
6.622		97518	90181
6.651		693486	708912
6.712		2927	2097
6.755		4501	5416
6.806		1598564	1796217
6.852		111584	118670
6.944		2973	1889
7.025		577312	706323
7.097		2488	818
7.125		1413	2022
7.198	DCB	5517273	7625340
7.298		9416	16563
7.408		34929	51763
7.506		2212	1753
7.535		2271	1291
7.559		3535	3680
7.601		7560	8382
7.649		7681	10514
7.682		6394	14087
7.786		5382	9563
7.869		2303	1880
7.885		2600	1844
7.91		2527	2005
8.001		2385	2237
8.02		2136	820
8.096		1450	647
8.158		2640	5315
8.197		2391	715
8.248		14321	27739

ASX73 1638

RT A	Compound A	Height A	Area A
8.313		2568	1589
8.363		1976	899
8.399		1745	946
8.417		2676	1494
8.448		2852	756
8.474		2325	538
8.486		3441	4943
8.556		11804	21512
8.598		2270	1072
8.631		3121	713

ASX73 1638

LANCASTER LABORATORIES

Sample Number: AR1641224B AAAR164AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 1:29:42 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0009.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.521		20724	19291
2.539		13176	2350
2.548		45416	59724
2.613		100256	187852
2.634		105669	142877
2.642		97087	39154
2.65		87749	71324
2.676		60575	59800
2.696		72577	95845
2.734		341671	312748
2.761		33362	17678
2.785		14889	4742
2.806		71130	73915
2.844		29256	15113
2.868		78662	536951
2.957		57919	208134
2.981		84441	116031
3.016		18635	11334
3.033		23222	9812
3.068	TCX	215400000	157258600
3.11		2004636	1640281
3.177		24038	7934
3.195		104828	109122
3.24		4550588	3640403
3.274		30201	14163
3.303		6161845	6063183
3.359		26777790	19370370
3.417		661305	459512
3.448		31048	17909
3.477		3484488	2634509
3.511		90661	98198
3.573		20459620	11969950
3.586		8197811	3681237
3.628		4376985	3078929
3.652		1822500	1152788
3.678		2774031	1690564
3.703		32791310	27196370
3.739		1024949	737250
3.787		9287326	5739547
3.805		5002004	2866025
3.861		19414730	11414220
3.873		43668700	24434570
3.895		438374	200540
3.911		38004350	31527320
3.994		42471830	32355610
4.027		25074900	17903320
4.056		28474290	21106810
4.077		9397660	5519547
4.136		23022	18139
4.175		28094600	22768350
4.203		12238830	8017061
4.227		11333630	7940656
4.265		4400780	2550290
4.282		28918790	20208490

ASX73 1639

RT B	Compound B	Height B	Area B
4.332		9983163	8773723
4.38		1262531	1151176
4.405		7376452	5088048
4.431		38122660	29076000
4.459		8766863	6334167
4.499		3954112	4031847
4.54		28862000	25242590
4.587		1031228	870887
4.606		1894192	1862933
4.651		27092	10253
4.668		179514	163866
4.71		1445970	1567381
4.775		6618373	6500091
4.829		2366566	1842484
4.856		28805390	28719860
4.887		13371530	14754340
4.945		69483340	62237820
4.992		1018420	860675
5.021		4387680	3235617
5.047		12351100	11935190
5.093		83240300	77651000
5.167		20764	8301
5.212		77331910	75061460
5.274		6626774	6448749
5.307		18564560	16819800
5.348		79605840	73531930
5.379		42688870	34279130
5.42		30791780	26734370
5.487		140872	108728
5.527		10919270	11643410
5.58		55032930	50882150
5.608		6445094	4633355
5.655		29281700	27388580
5.692		10793440	8035916
5.711		6184347	4061699
5.768		129417400	132120600
5.809		2564657	2056709
5.851		3798467	3504651
5.882		227683	184710
5.963		473074	393911
5.985		23836490	21476400
6.032		91992750	98396700
6.192		1935463	1921542
6.226		1715414	1547288
6.259		848360	797223
6.309		10077770	9843600
6.408		24646780	22607450
6.44		1123742	883679
6.553		36407	43585
6.614		7801891	8175110
6.729		9574	7161
6.783	DCB	113391500	109968400
6.977		98336	100262
7.158		110115	126946
7.217		15386	13183
7.243		249018	283480
7.292		16753	12956
7.325		80419	92215
7.405		22702	25123
7.441		11232	17167
7.517		95764	147841
7.644		5922	1448
7.682		5037	2299
7.764		124692	198321
7.904		8355	12202
7.956		74976	120544

ASX73 1640

RT B	Compound B	Height B	Area B
8.031		144503	234389
8.127		7912	3231
8.16		8148	6293
8.199		9630	5370
8.255		12727	7517
8.302		9516	9224
8.327		8655	5377
8.344		11750	23727
8.473		9343	86965
8.525		8981	16958
8.581		10016	7259
8.622		9590	4706
8.65		10381	5382
8.683		10937	8105

AR1641224B AAAR164AA ICAL 1220399999

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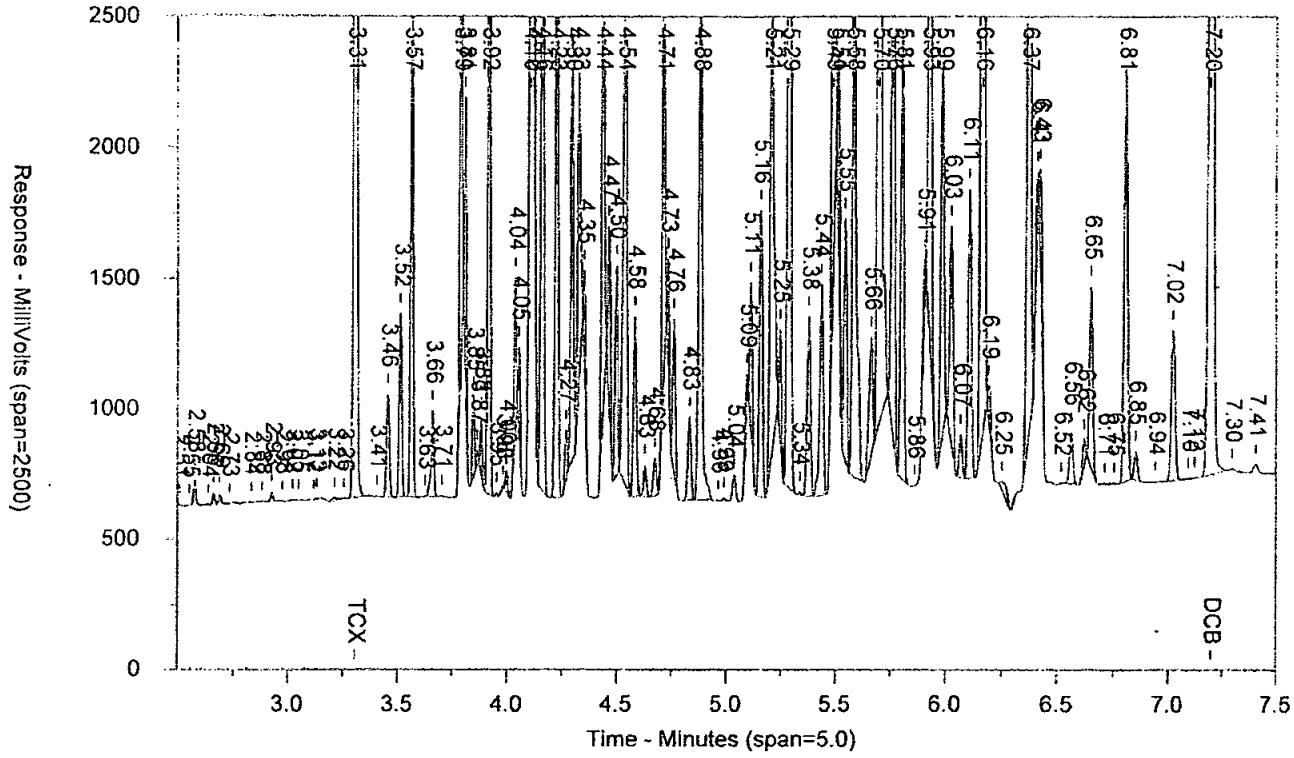

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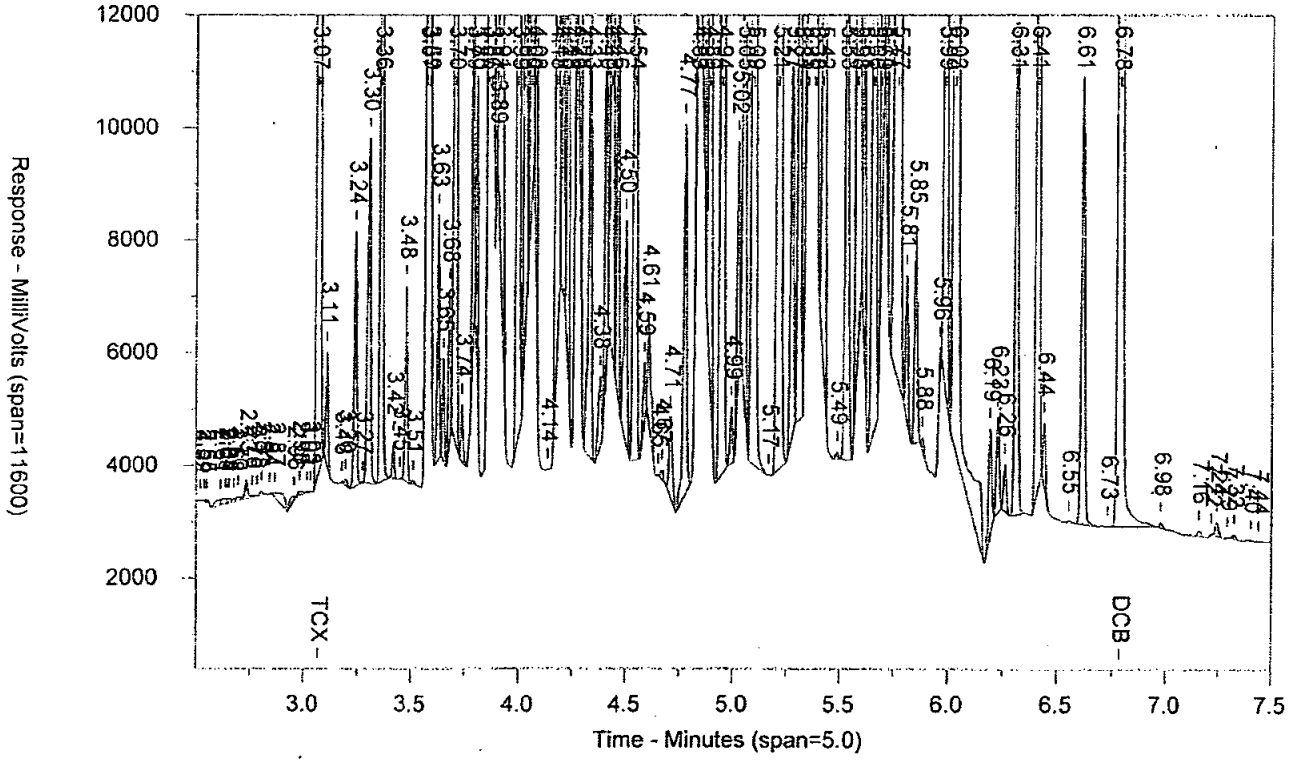

LANCASTER LABORATORIES

Sample Number: AR1641224B AAAR164AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 1:29:42 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	14873870	93.354	TCX	3.068	215400000	59.69	TCX
7.198	5517273	54.862	DCB	6.783	113391500	63.081	DCB

Files:
Area File: 1p20205.0009.RAW
Area File: 1p20205B.0009.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 1:38:25 PM
File Reported On: 7/23/2012 at 4:27:28 PM

AR1641224B AAAR164AA ICAL 1220399999

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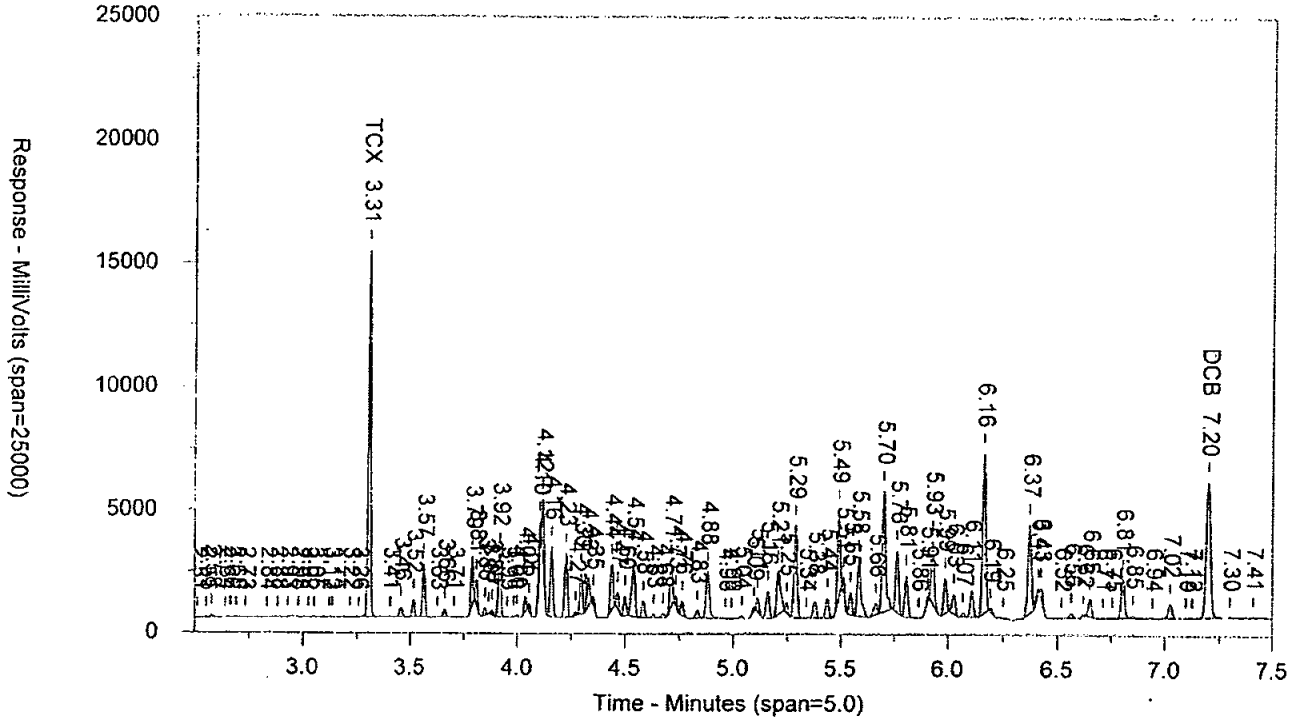

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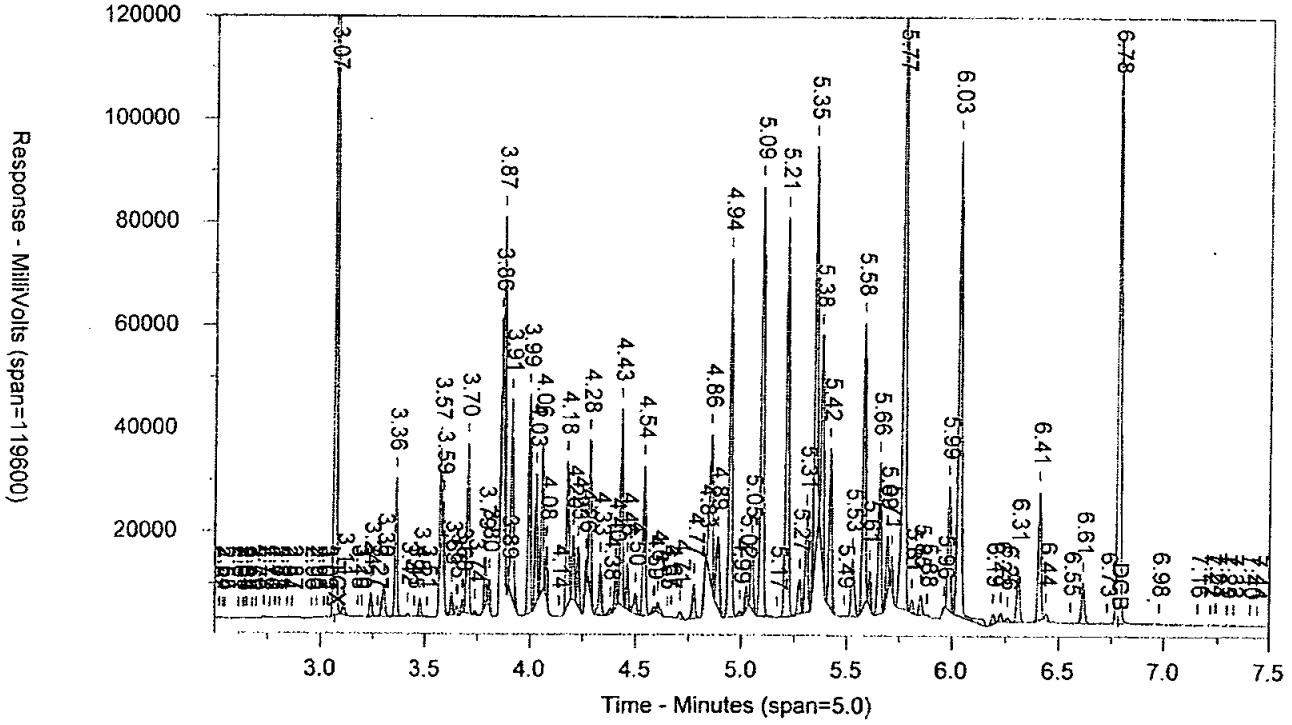

LANCASTER LABORATORIES

Sample Number: AR1651224B AAAR165AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 1:41:11 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0010.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.511		8974	5641
2.535		3069	1993
2.556		4650	3303
2.578		125802	96592
2.637		2735	3605
2.663		51866	40512
2.692		50457	41398
2.761		2496	4966
2.784		2805	1912
2.811		1305	726
2.893		2559	4667
2.931		66419	53160
2.993		1036	1294
3.023		2052	1120
3.061		2120	2691
3.081		3120	2044
3.132		9923	43129
3.217		19022	29394
3.307	TCX	19477520	14734340
3.409		5156	2701
3.427		2419	1343
3.457		709615	697096
3.517		1150719	944384
3.567		3883562	3086862
3.665		586641	516105
3.706		16038	12472
3.791		3592999	2616871
3.811		1827016	1107001
3.85		535066	370254
3.869		94301	42214
3.885		357325	230893
3.919		4571329	3970895
3.956		33064	19773
3.983		14053	11732
4		161751	119645
4.038		1057462	769991
4.056		564651	349295
4.106		2167674	1471024
4.119		4465782	2773473
4.161		5180183	4804447
4.228		4664996	4357553
4.273		336196	249731
4.299		2989347	2528265
4.33		2161997	2016966
4.355		634699	401817
4.439		3359787	2945032
4.467		1227734	960663
4.5		1389777	1196614
4.54		3618636	4246447
4.585		1190752	1172329
4.633		205473	195101
4.678		245679	237892
4.715		3307598	2701160
4.735		669264	431478

ASX73 1645

RT A	Compound A	Height A	Area A
4.763		1036533	922491
4.835		560845	587782
4.883		3486375	3836756
4.966		3151	2116
4.991		22265	19242
5.039		186337	194063
5.096		295124	230331
5.114		972132	803759
5.161		2035199	2065134
5.209		3202991	4105633
5.248		719629	576520
5.289		6769867	7211008
5.34		22610	18993
5.381		1259593	1380932
5.438		1475575	1658655
5.492		6362449	5937007
5.513		1158948	763071
5.546		1611821	1571646
5.586		4184045	4977900
5.665		814764	977673
5.701		9194873	10620710
5.764		4645671	4597658
5.807		3009350	3180775
5.862		4839	1765
5.907		175930	266535
5.929		4751150	4659796
5.988		2699286	2683467
6.028		1421772	1448685
6.071		326735	312163
6.109		1985210	2041465
6.165		12139950	12551140
6.195		232908	223815
6.254		44927	112383
6.328		6885	36677
6.375		6718928	7510611
6.426		1953448	3731157
6.472		7470	6990
6.524		8344	6830
6.566		336708	359445
6.624		167127	161990
6.652		1261929	1282359
6.735		2340	408
6.755		4591	4123
6.807		2942363	3287049
6.854		208594	221737
6.938		2222	966
6.987		1198	2070
7.027		958335	1240744
7.092		1993	847
7.127		4706	6584
7.201	DCB	7071589	9812858
7.301		19387	22009
7.409		17806	26366
7.476		1939	1221
7.554		5500	10712
7.609		9760	10812
7.648		8113	9974
7.689		3784	3623
7.785		5160	11777
7.868		2464	1018
7.903		2762	4481
7.957		2473	1952
8.001		2150	1011
8.024		1998	1478
8.041		2484	884
8.061		2363	1188

ASX73 1646

RT A	Compound A	Height A	Area A
8.085		2806	2200
8.11		2539	1775
8.153		2708	1590
8.202		2437	1380
8.257		15599	35604
8.321		2461	1426
8.367		2382	3511
8.44		2067	3456
8.469		1318	1654
8.485		4276	5829
8.555		13936	24832

LANCASTER LABORATORIES

Sample Number: AR1651224B AAAR165AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 1:41:11 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0010.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.516		16788	22466
2.572		61352	53398
2.615		37663	26735
2.636		40131	60974
2.717		51098	112703
2.734		602995	515767
2.77		54872	64100
2.806		46433	41381
2.824		14701	3288
2.835		18453	5238
2.844		14667	8144
2.9		66262	193258
2.955		143511	352725
2.982		76219	92273
3.017		67291	40007
3.042		7581	5734
3.068	TCX	281109600	204957200
3.109		3542735	3026308
3.18		23013	7592
3.197		121328	103531
3.24		9099780	7217003
3.273		38667	17120
3.303		11136640	10177070
3.359		48028600	35072410
3.417		845382	575704
3.445		18500	5349
3.477		6494699	4908834
3.513		64598	44663
3.537		52594	52293
3.573		36932240	22078460
3.586		15207790	6864340
3.628		8090050	5921168
3.653		3562699	2225464
3.679		5117202	3107467
3.704		60844700	50846440
3.74		2028669	1369942
3.787		18013960	11173370
3.806		10011640	5852221
3.84		24993	17316
3.862		36204760	21659470
3.875		79806480	44621050
3.897		437308	301578
3.912		70291590	59719650
3.996		80430220	63081860
4.028		47513240	34877820
4.057		55184860	40969140
4.078		19614680	11447740
4.141		42318	17826
4.177		53243300	44306380
4.205		24655470	16215220
4.228		23695620	16108760
4.266		9777167	5460938
4.284		55171770	39528350
4.334		19555770	17589400

0SX73 1648

RT B	Compound B	Height B	Area B
4.381		2623638	2263154
4.406		16232520	11060040
4.432		75249480	58555470
4.461		17761990	12856000
4.5		7799731	8062950
4.541		60635040	50691080
4.588		2083441	1658930
4.607		3467587	3678449
4.67		285762	241181
4.71		3131925	3551053
4.776		13547010	13227530
4.856		64607460	97274970
4.888		26540650	29862750
4.946		128505700	119776400
4.993		2019333	1638110
5.023		9201667	6861305
5.048		28030080	25390920
5.095		152718700	150340800
5.213		148213900	147754900
5.275		14223370	13381060
5.309		40087620	36102070
5.349		149531600	145187900
5.38		81096660	67447710
5.422		61865750	55869740
5.486		270413	204360
5.528		22462450	24411490
5.58		111055300	103076100
5.609		13449160	9789120
5.656		59736440	57908510
5.692		23853970	17527620
5.713		13810230	9031014
5.77		248752700	263934300
5.811		5371665	4313430
5.853		8316901	7662013
5.885		180246	124215
5.926		68709	37918
5.963		1355910	915055
5.985		47848850	44458650
6.034		175548400	191309600
6.146		538523	423248
6.193		3490250	3297734
6.228		3443362	2996688
6.26		1588958	1463571
6.311		20796580	19945670
6.359		36607	43927
6.41		50767490	46724740
6.44		2009347	1672754
6.554		33661	45467
6.616		16454200	15788650
6.709		17766	11198
6.743		13983	17198
6.784	DCB	150491900	150868500
6.98		216585	193127
7.027		21697	30944
7.162		142806	160124
7.22		35916	30717
7.244		150891	151198
7.294		28373	23453
7.323		69752	88366
7.518		90523	132705
7.565		11765	25158
7.649		9840	5459
7.677		11546	15414
7.766		166833	263844
7.836		11255	7498
7.9		8530	4529

RT B	Compound B	Height B	Area B
7.953		94058	160718
8.032		191399	296884
8.086		13889	14001
8.126		8446	3879
8.15		10715	9876
8.174		8733	4309
8.231		11380	4735
8.29		12060	16786
8.312		12438	8369
8.321		9093	4661
8.347		12647	14485
8.408		16603	11234
8.476		6584	14961
8.507		8226	3325
8.571		8384	3234
8.616		5357	4220
8.677		7976	16641

ASX73 1650

AR1651224B AAAR165AA ICAL 1220399999

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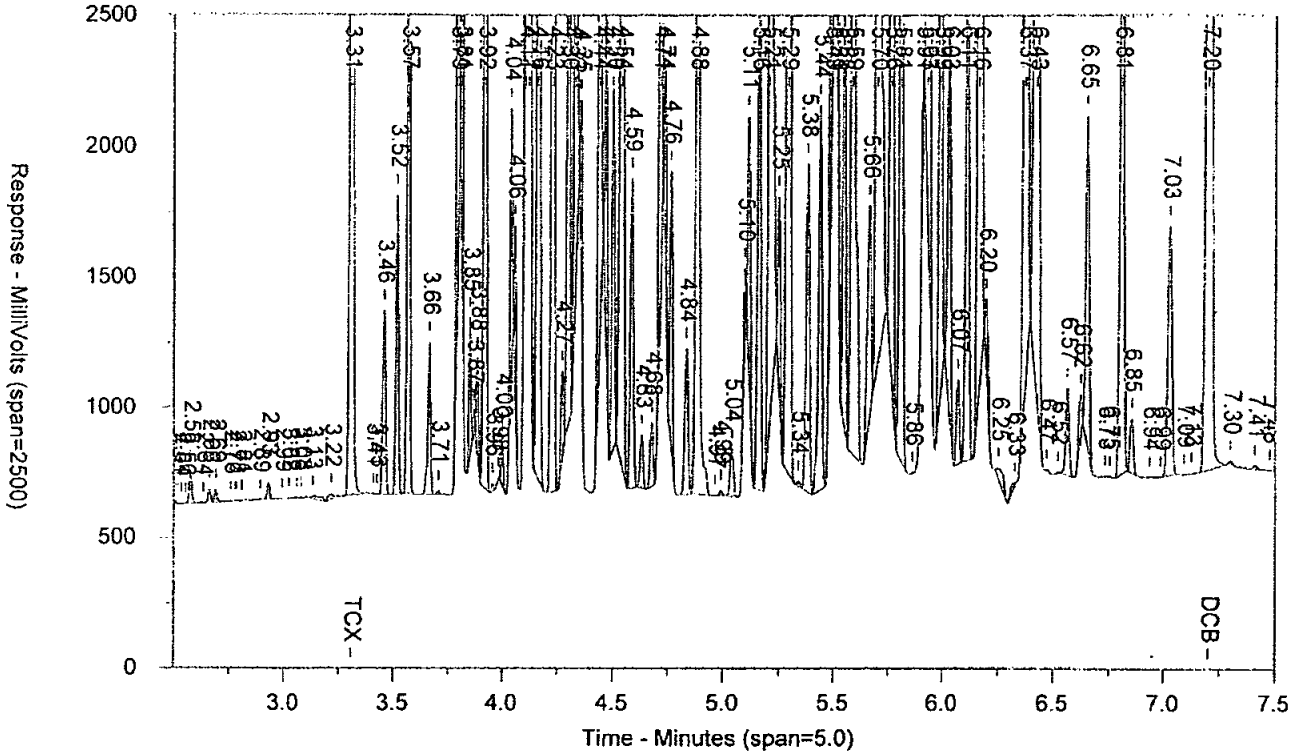

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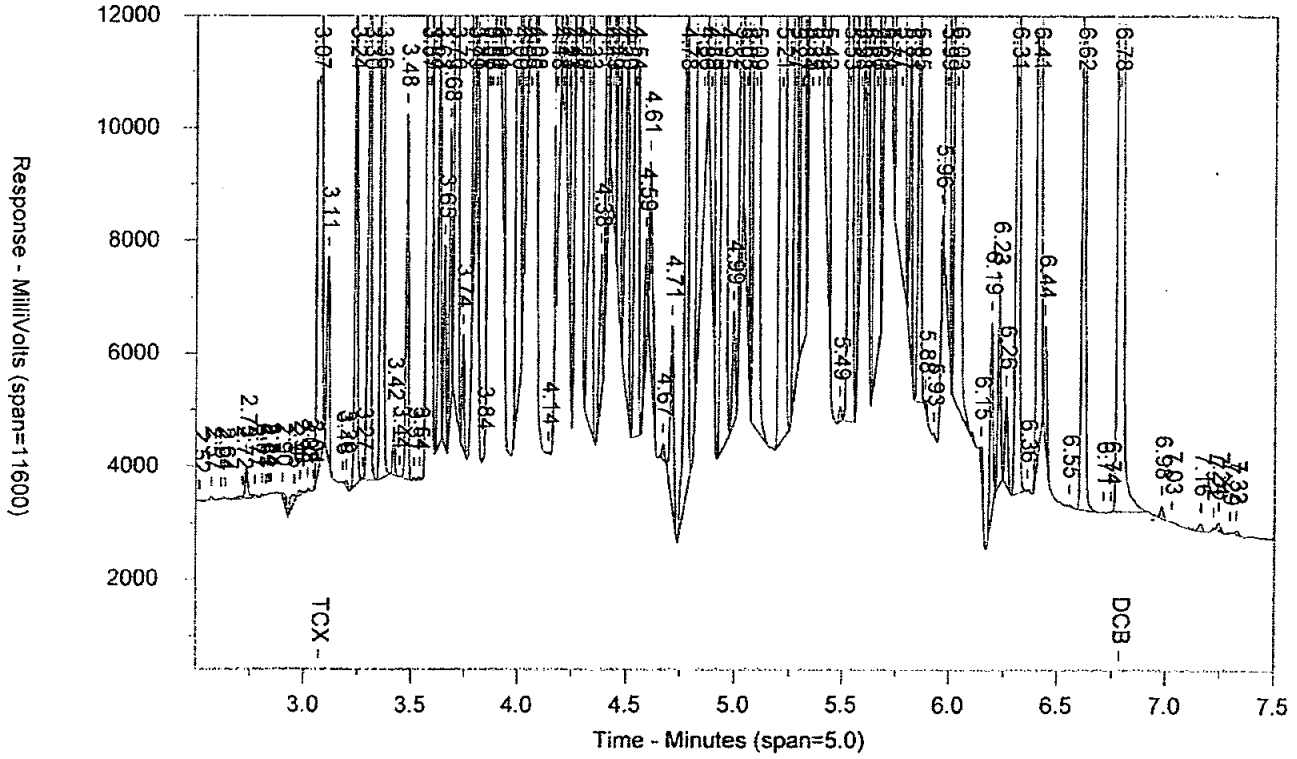

ASX73 1651

LANCASTER LABORATORIES

Sample Number: AR1651224B AAAR165AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 1:41:11 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	19477520	93.974	TCX	3.068	281109600	77.899	TCX
7.201	7071589	70.317	DCB	6.784	150491900	83.72	DCB

Files:
Area File: 1p20205.0010.RAW
Area File: 1p20205B.0010.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 1:49:55 PM
File Reported On: 7/23/2012 at 4:27:34 PM

AR1651224B AAAR165AA ICAL 1220399999

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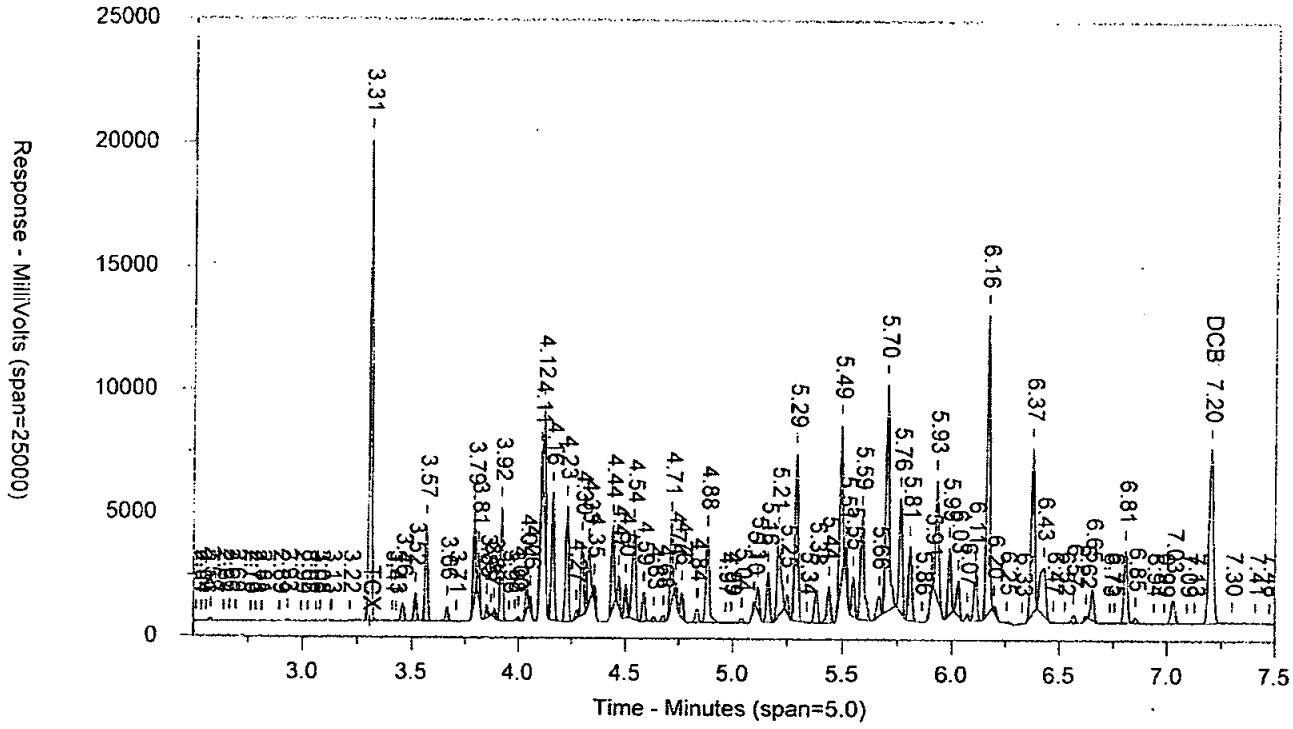

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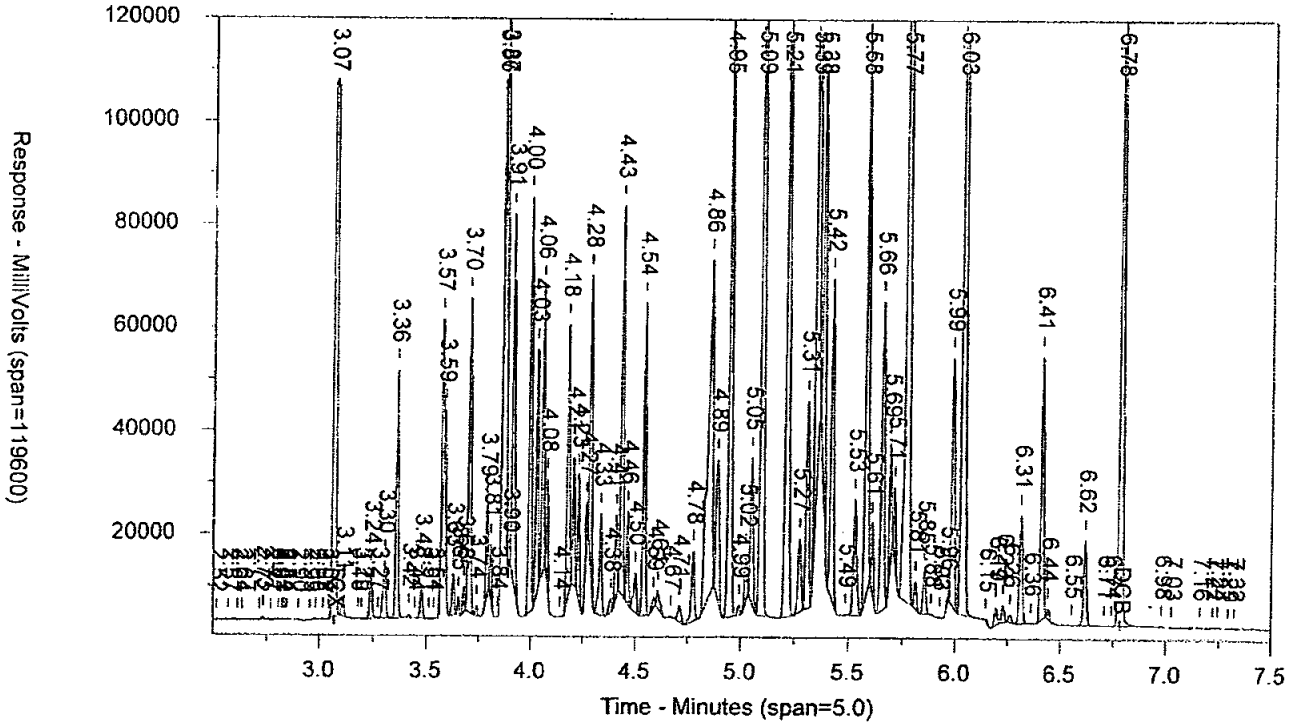

ASX73 1653

LANCASTER LABORATORIES

Sample Number: AR4811224A AAAR481AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 1:52:34 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0011.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.511		11038	7760
2.56		1621	711
2.58		6155	6035
2.664		58567	44127
2.692		3222	4230
2.726		2314	973
2.792		1990	930
2.887		4241	6760
2.932		5071	7182
2.976		5556	5534
3.027		2948	2456
3.101		2803	2172
3.133		13554	15325
3.204		12901	27036
3.307	TCX	1263533	968758
3.379		5067	5795
3.407		12200	12137
3.456		3538	3733
3.514		24916	19410
3.567		33474	25598
3.602		1472	463
3.631		7538	6927
3.651		4154	1554
3.665		6383	4740
3.692		2797	2208
3.754		1869	1210
3.79		151825	112538
3.81		41442	24345
3.848		15975	15304
3.881		6089	3808
3.918		145214	131516
3.969		1783	660
3.984		4588	4416
4.038		26584	18758
4.057		7920	3992
4.08		4696	3178
4.104		141701	95385
4.118		144101	88235
4.16		172949	160105
4.226		207275	190544
4.271		25358	17706
4.297		360657	308123
4.328		231096	212289
4.353		65767	45289
4.397		2162	589
4.438		397592	347226
4.466		121767	91162
4.5		150576	127418
4.538		345580	377063
4.585		119068	111642
4.633		14470	14928
4.676		43753	40777
4.713		276718	217661
4.734		334340	254165

ASX73 1654

RT A	Compound A	Height A	Area A
4.762		404032	350339
4.833		40431	41091
4.879		390377	368505
4.905		131104	169815
4.963		5646	4537
4.991		21551	19327
5.037		114180	114471
5.093		161294	162264
5.129		76586	60852
5.159		255364	244936
5.209		5622	5244
5.25		113942	111754
5.288		21631	29109
5.339		29475	26743
5.382		202140	209959
5.451		9998	26963
5.491		13840	9730
5.513		12496	8356
5.585		195258	204038
5.628		4502	3252
5.651		3821	4284
5.7		44986	41966
5.774		1712	919
5.808		2843	2193
5.875		2089	1291
5.913		15812	19926
5.977		27377	48373
6.013		21962	43895
6.105		7554	7569
6.164		10567	9531
6.226		1696	2029
6.377		20872	162248
6.432		1985	2876
6.477		2595	1134
6.538		1456	2310
6.563		7226	8466
6.619		2055	516
6.667		1874	3206
6.693		2420	1313
6.737		1728	4402
6.773		1451	591
6.814		8979	21723
6.94		1595	2980
6.976		1662	1272
7.002		2079	970
7.024		6082	6831
7.054		1881	850
7.138		1821	5017
7.199	DCB	538954	739937
7.302		1947	1242
7.338		2576	1654
7.356		1844	701
7.382		1245	637
7.408		33160	52703
7.508		2167	687
7.565		8148	17199
7.646		12570	25013
7.77		1903	1440
7.809		2754	3706
7.829		1927	986
7.858		2725	974
7.909		1893	2607
7.942		2406	749
7.997		968	1201
8.117		1401	2834
8.131		2230	1660

ASX73 1655

RT A	Compound A	Height A	Area A
8.18		2330	2058
8.218		1573	410
8.248		2378	2113
8.354		2401	1899
8.416		2196	504
8.465		2338	1947
8.522		2940	3945
8.563		3873	4538
8.618		1478	593
8.661		3060	1562

ASX73 1656

LANCASTER LABORATORIES

Sample Number: AR4811224A AAAR481AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 1:52:34 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0011.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.514		8920	3880
2.554		15816	13020
2.569		31226	26955
2.6		12564	3883
2.62		17177	11177
2.63		25297	15027
2.66		15706	11780
2.683		14407	9018
2.698		29614	42995
2.735		24304	17239
2.763		14503	4853
2.805		27494	24148
2.868		14328	25495
2.877		49816	379967
2.942		130729	133935
2.98		227012	310153
3.034		41936	31565
3.067	TCX	15607530	10578450
3.113		46297	38143
3.146		66317	48041
3.195		169482	164253
3.242		57733	98925
3.262		31741	19749
3.294		277477	281524
3.359		361916	299921
3.417		60132	51490
3.446		37996	35835
3.474		131117	132292
3.511		89418	62053
3.537		78940	71352
3.573		2003829	2107981
3.628		165463	125819
3.653		33449	18146
3.682		17029	13269
3.704		1404141	1155498
3.731		47106	24816
3.752		132728	99103
3.787		571326	520431
3.838		26886	39740
3.86		1766406	974039
3.873		1670306	896304
3.895		267271	116394
3.911		1404522	1004815
3.995		2327624	1893253
4.027		3976574	2828159
4.056		3709233	2762072
4.077		1222083	775598
4.134		11998	4084
4.148		10098	3921
4.175		3116290	2579593
4.204		1515326	1019914
4.227		1531158	1087996
4.265		359922	206110
4.282		3386975	2493686

ASX73 1657

RT B	Compound B	Height B	Area B
4.333		1374647	1385575
4.379		307742	273466
4.405		2842815	2083494
4.43		7041217	5286797
4.46		5197576	4088631
4.484		456201	573610
4.54		2114295	1927899
4.587		2941773	2967751
4.62		2319685	1997905
4.652		12843	3253
4.669		289230	220413
4.709		1613594	1857739
4.774		2383366	2893937
4.813		1201908	990542
4.843		3073175	2783478
4.885		140042	206957
4.953		1193634	1727473
4.984		362647	298500
5.021		2309608	2305663
5.082		411397	584281
5.127		242537	264880
5.188		25289	13666
5.212		327367	463711
5.267		2359758	2181279
5.305		98518	87764
5.349		534203	672191
5.401		57362	63251
5.47		42464	67149
5.537		14871	9529
5.579		44963	43784
5.609		192677	171746
5.658		39133	33441
5.692		32213	38192
5.75		45358	33614
5.769		83820	82460
5.822		30722	25566
5.836		32515	21476
5.883		387079	534018
5.983		314712	788317
6.027		64169	58696
6.128		199462	696433
6.257		68102	1121770
6.317		20847	28150
6.371		26957	63104
6.406		17234	10898
6.507		11832	19480
6.538		7863	2036
6.557		29752	32397
6.613		71376	85186
6.703		11631	7014
6.783	DCB	7228009	7507324
6.935		9835	3009
6.972		10038	5472
7.028		24353	49922
7.2		8648	3841
7.22		7211	4697
7.243		195709	252972
7.324		89001	126593
7.398		11069	5301
7.423		10422	3982
7.452		6086	1573
7.515		81412	128134
7.569		14874	19392
7.7		8197	3768
7.711		9233	3870
7.749		10756	3666

ASX73 1658

RT B	Compound B	Height B	Area B
7.797		8809	3119
7.853		10700	4319
7.872		14732	8108
7.923		7565	3092
7.951		10924	7354
7.98		10541	4185
8.031		9867	13410
8.123		9695	4310
8.156		6947	2859
8.18		14775	7375
8.221		7967	7267
8.267		12503	3106
8.295		9784	4441
8.356		15972	36083
8.452		7193	33101
8.47		12764	4287
8.501		6868	3088
8.512		7582	3054
8.542		9565	6487
8.571		8958	3734
8.623		8584	8781
8.679		11200	14581

AR4811224A AAAR481AA ICAL 1220399999

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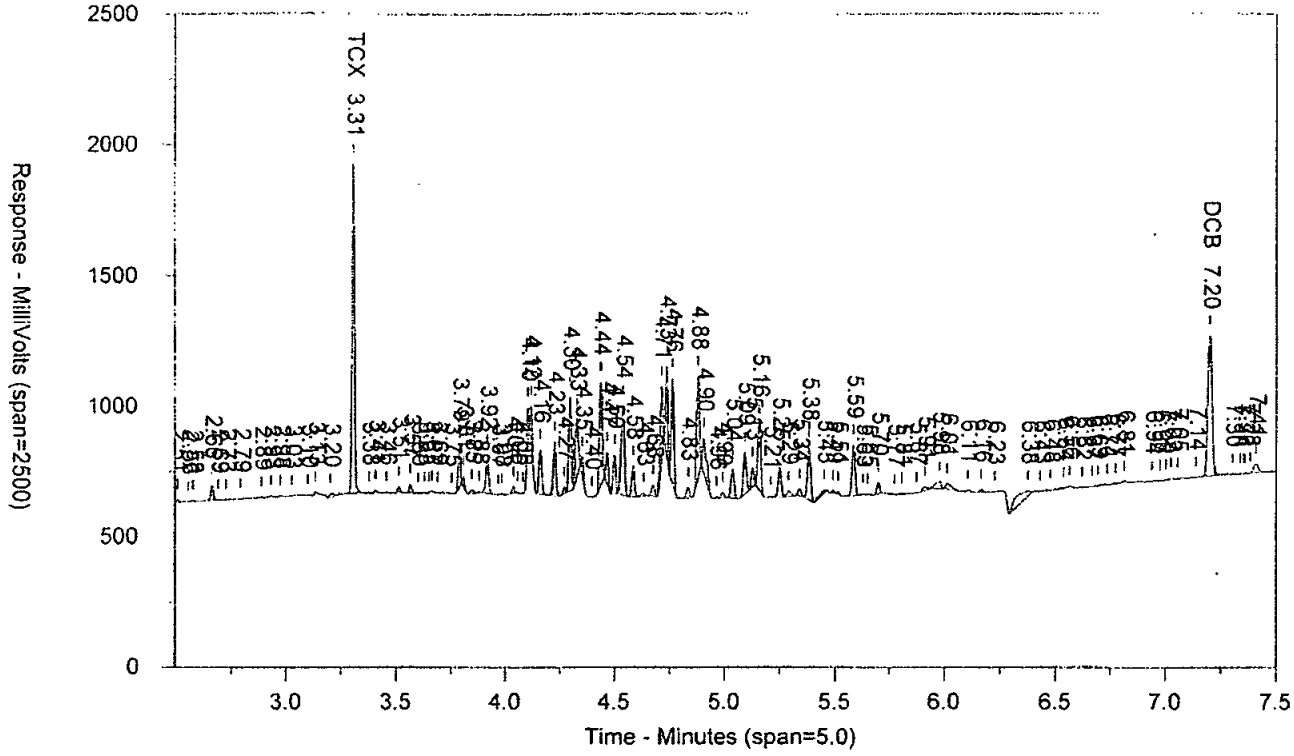

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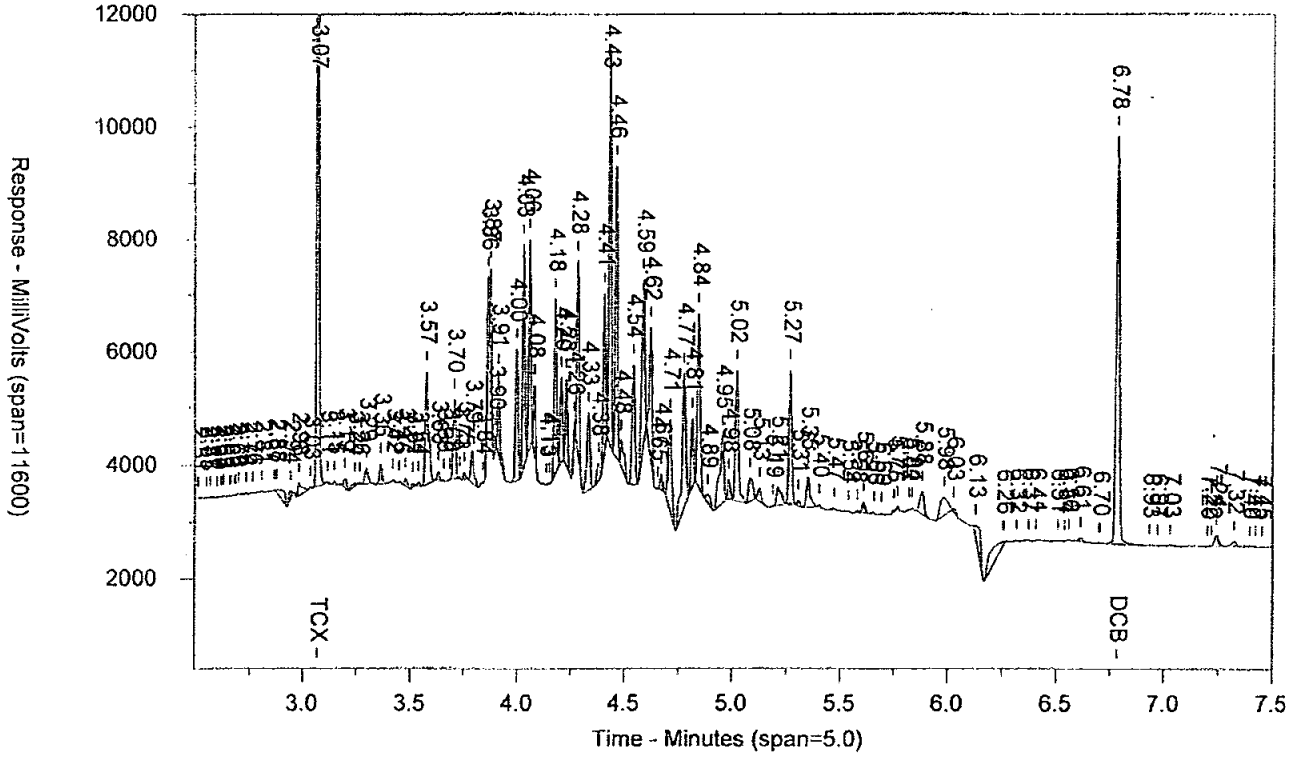

ASX73 1669

LANCASTER LABORATORIES

Sample Number: AR4811224A AAAR481AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 1:52:34 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	1263533	4.965	TCX	3.067	15607530	4.325	TCX
7.199	538954	5.359	DCB	6.783	7228009	4.021	DCB

Files:
Area File: 1p20205.0011.RAW
Area File: 1p20205B.0011.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 2:01:18 PM
File Reported On: 7/23/2012 at 4:38:02 PM

AR4811224A AAAR481AA ICAL 1220399999

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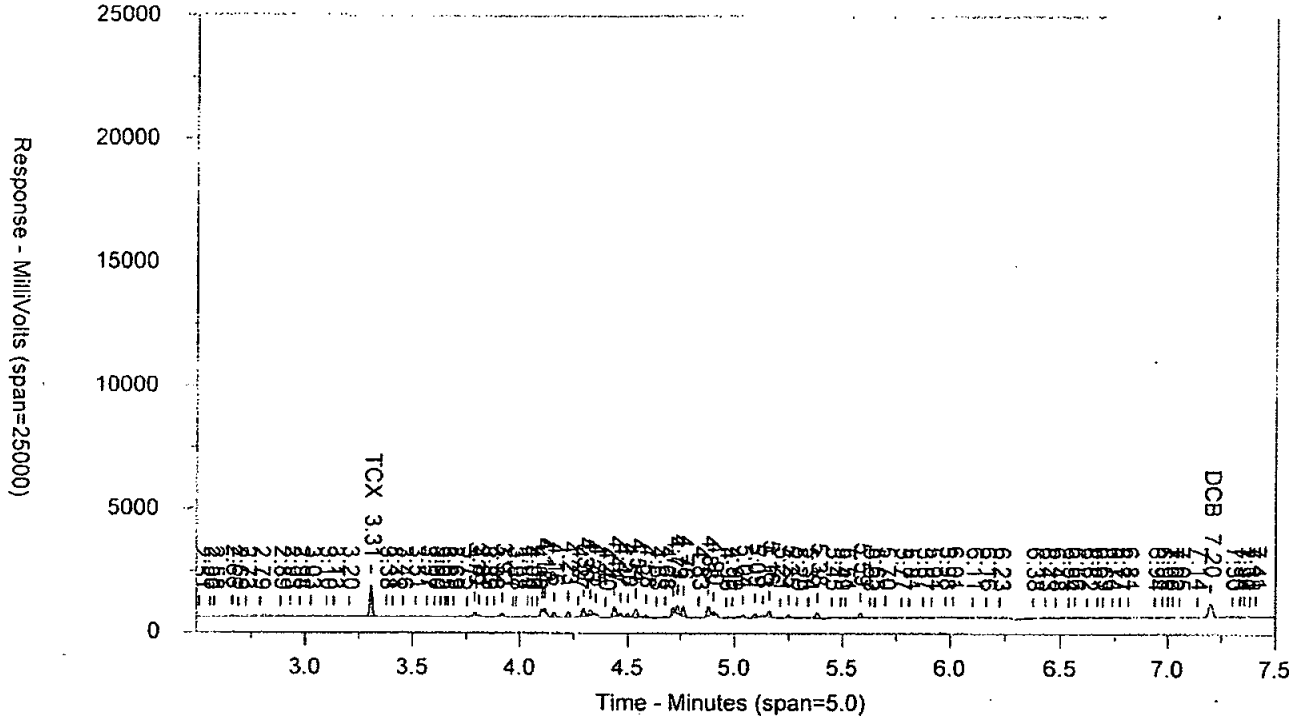

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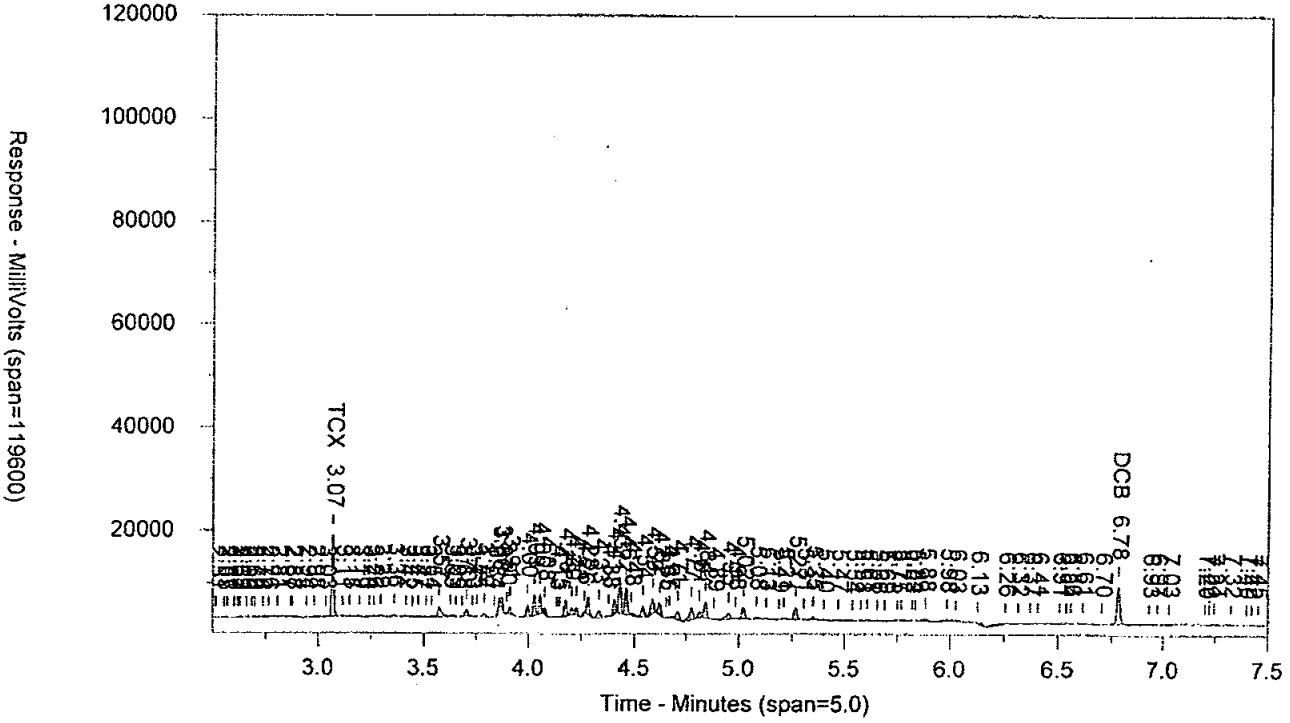

ASX73 1662

LANCASTER LABORATORIES

Sample Number: AR4821224A AAAR482AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 2:04:04 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0012.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.511		9917	6616
2.559		3492	2556
2.577		33622	26020
2.647		1722	1801
2.663		52574	40163
2.692		13098	11645
2.746		2008	1523
2.781		4474	3496
2.824		1454	961
2.865		1783	802
2.902		1736	2327
2.932		5111	6944
2.969		3169	5164
3.021		5554	3943
3.08		2737	4815
3.103		2964	2038
3.134		25908	41515
3.21		8988	17258
3.275		1489	762
3.307	TCX	5536869	4154719
3.375		3710	2504
3.407		19371	18614
3.458		7126	8911
3.514		108880	80836
3.546		2660	1180
3.567		63743	44904
3.62		2400	1601
3.632		3779	1097
3.651		11879	7019
3.664		8967	5612
3.692		4935	3501
3.731		2670	2098
3.791		283409	208765
3.81		83338	46667
3.849		25344	22398
3.884		3836	2422
3.919		267062	231805
3.984		17416	19768
4.038		53042	38185
4.056		10629	6192
4.082		3083	1941
4.105		266610	176485
4.118		236233	156296
4.161		310331	291800
4.227		382304	351722
4.272		48915	32882
4.298		621808	547722
4.329		417848	384120
4.354		125390	83252
4.439		687021	620385
4.466		217776	163674
4.5		267713	233682
4.54		631454	681236
4.586		225108	207415

ASX73 1663

RT A	Compound A	Height A	Area A
4.633		26044	26412
4.678		78566	77130
4.714		510634	384878
4.736		593279	427860
4.764		700178	618013
4.835		80653	83638
4.88		679509	655813
4.905		238664	310119
4.967		12535	11092
4.993		41316	36410
5.038		202050	213886
5.094		290560	294650
5.13		160186	131148
5.16		455317	452085
5.209		9355	9839
5.251		205265	206248
5.291		40515	55433
5.34		56656	55680
5.382		356944	382237
5.467		34347	100732
5.491		25509	18884
5.512		22934	17992
5.586		368485	372612
5.63		10994	8491
5.657		6905	9097
5.702		84867	92310
5.761		3454	2657
5.806		4289	4440
5.913		29152	33964
5.98		25396	42970
6.015		24192	49007
6.109		17108	15007
6.166		16201	15335
6.212		2486	1743
6.377		21779	156732
6.413		3185	1260
6.476		1894	927
6.498		2288	557
6.531		1850	3309
6.567		22717	27188
6.633		2876	2773
6.712		19701	71581
6.809		22760	71939
6.862		2570	1105
6.945		1398	2179
6.998		1928	1152
7.028		20462	24449
7.071		2824	2088
7.101		2402	1140
7.13		1912	718
7.143		1889	959
7.2	DCB	2132302	2879935
7.276		2448	3316
7.316		2022	790
7.345		2131	571
7.366		2168	586
7.41		34767	50264
7.516		2074	601
7.568		7256	16393
7.603		2259	838
7.646		11796	15718
7.714		3280	7024
7.753		2632	802
7.781		1849	883
7.794		2262	873
7.829		2531	2428

ASX73 1664

RT A	Compound A	Height A	Area A
7.854		2240	1182
7.899		1479	559
7.956		1151	222
8.012		2782	1456
8.083		1805	911
8.133		2914	3153
8.177		2709	899
8.214		1803	1892
8.254		7171	16709
8.327		2242	3056
8.377		2321	1227
8.4		2402	1918
8.461		1899	729
8.507		2942	4585
8.56		4523	8306
8.611		3245	1952
8.662		2766	1966

ASX73 1665

LANCASTER LABORATORIES

Sample Number: AR4821224A AAAR482AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 2:04:04 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0012.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.505		12048	6631
2.544		21669	12455
2.57		35747	27749
2.597		15038	6039
2.638		19939	21591
2.657		17216	7001
2.678		16616	8849
2.695		11559	5717
2.733		30037	18943
2.772		16842	19967
2.804		40001	41555
2.846		28414	26943
2.902		88954	154541
2.943		198197	341508
2.98		361330	452851
3.032		28857	20268
3.067	TCX	77427700	53358720
3.106		34028	26170
3.147		86423	66664
3.176		12507	4421
3.197		131564	108436
3.241		116232	203883
3.294		1070455	889544
3.327		36649	14210
3.359		661841	510333
3.418		260917	296345
3.477		256887	198747
3.511		83760	62969
3.536		82908	82433
3.573		3645863	3739514
3.629		261647	187964
3.653		50478	29426
3.678		57124	32071
3.704		2560593	2135288
3.731		47366	24658
3.754		127504	90125
3.788		755486	561059
3.804		108663	49610
3.833		41353	37297
3.861		3158282	1731347
3.873		3577446	1796505
3.896		433289	193471
3.911		2590490	1816799
3.996		4237017	3443745
4.028		7215340	5309764
4.056		7045556	5180681
4.078		2294848	1443269
4.176		6203392	5091076
4.205		2853189	1919279
4.228		2856710	2062636
4.266		733619	426124
4.283		6693475	4683975
4.334		2575505	2428844
4.381		598784	539397

ASX73 1666

RT B	Compound B	Height B	Area B
4.406		5798678	4012509
4.431		13612660	10274990
4.461		10275810	7849660
4.485		523893	279027
4.499		307353	182014
4.541		3871591	3594488
4.588		5653237	5551214
4.621		4779671	4028227
4.653		18690	8839
4.67		538691	455544
4.71		2759412	3046927
4.775		4341156	4854177
4.815		2211485	1841697
4.844		6161248	5248234
4.885		187721	257066
4.955		2074374	2976412
4.985		652306	548960
5.023		4386799	4261795
5.094		551302	604755
5.13		442201	435920
5.213		690499	894804
5.268		4349006	4065078
5.308		201521	178996
5.349		1023470	1197985
5.402		85468	80852
5.445		11208	4160
5.468		32216	30329
5.499		22234	13272
5.54		47692	35298
5.563		17572	5762
5.578		63505	45829
5.609		350011	325548
5.656		44187	36139
5.693		39617	35843
5.75		111849	78237
5.769		91521	54187
5.792		171696	134783
5.826		52514	70185
5.884		407616	641234
5.981		349883	798560
6.031		112925	94727
6.126		71985	606230
6.194		215965	236904
6.238		196199	372948
6.338		26928	271925
6.369		27189	27941
6.413		43939	57522
6.48		15794	15982
6.499		15259	7085
6.556		38479	45884
6.615		259649	259964
6.697		20633	23183
6.785	DCB	35366130	33539600
6.851		24651	13443
6.88		14447	27715
7.015		7623	7510
7.068		10195	9820
7.16		39542	44978
7.242		226794	313570
7.325		91799	137482
7.414		8133	2554
7.462		11909	5692
7.518		85732	127122
7.657		7530	2333
7.709		7014	1725
7.736		4966	6620

RT B	Compound B	Height B	Area B
7.77		43742	62044
7.813		12202	5920
7.862		5395	2427
7.874		8029	4078
7.927		8019	3989
7.953		32401	47967
8.001		8510	4342
8.035		50049	80160
8.094		12583	6419
8.165		9021	6727
8.198		6306	4262
8.25		9979	3693
8.27		10356	6676
8.282		10084	8653
8.326		5613	3152
8.358		14430	22181
8.424		10898	16355
8.452		10712	3583
8.471		10946	6827
8.502		8560	3868
8.537		11999	5611
8.569		11704	4500
8.595		12027	7131
8.614		12299	7718
8.656		12415	4304
8.688		9329	2142

AR4821224A AAAR482AA ICAL 1220399999

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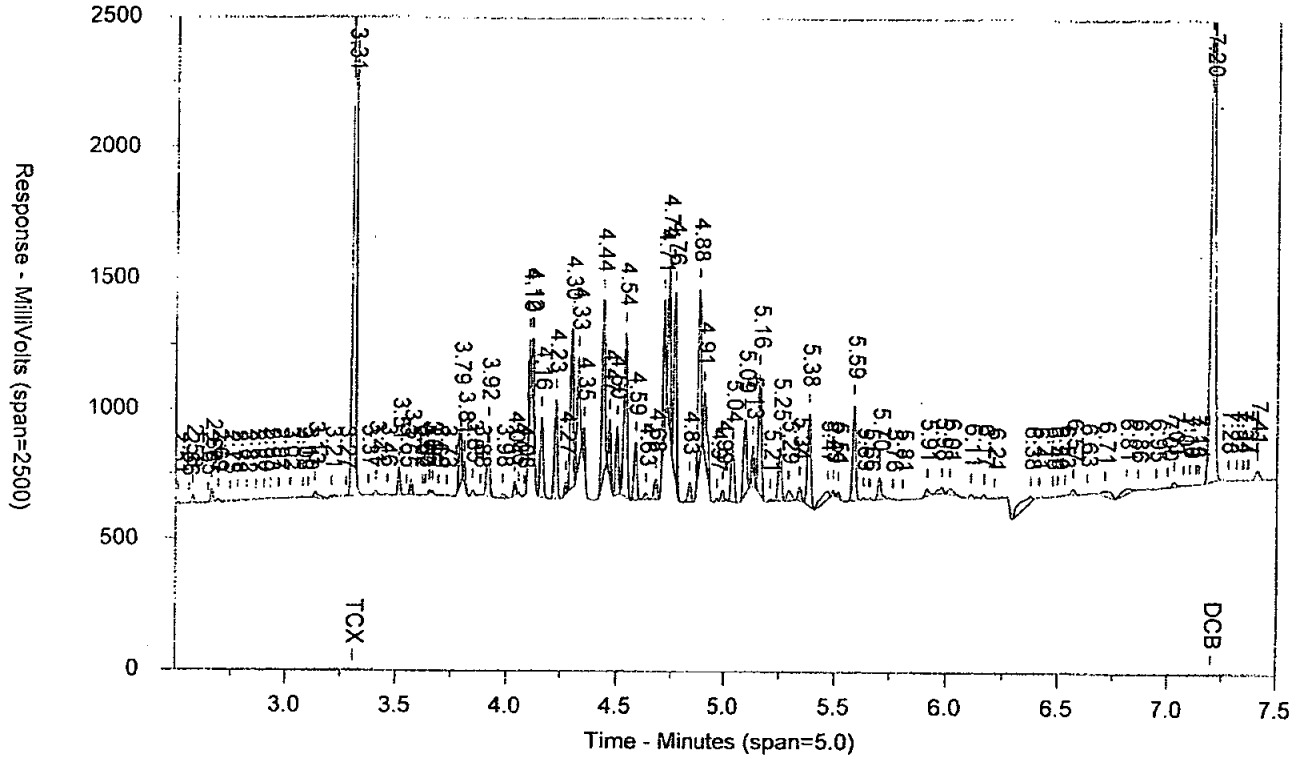

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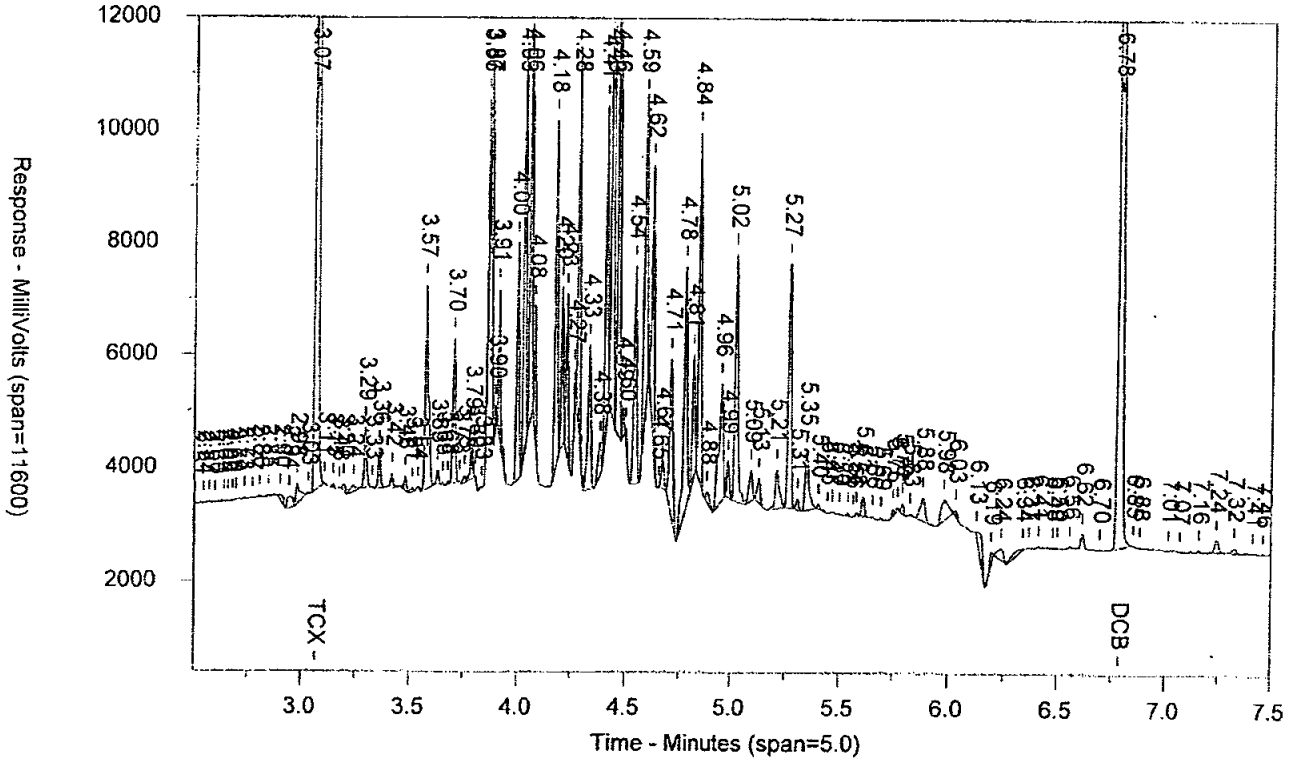

ASX73 1669

LANCASTER LABORATORIES

Sample Number: AR4821224A AAAR482AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 2:04:04 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	5536869	21.758	TCX	3.067	77427700	21.456	TCX
7.2	2132302	21.203	DCB	6.785	35366130	19.675	DCB

Files:
Area File: 1p20205.0012.RAW
Area File: 1p20205B.0012.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 2:12:47 PM
File Reported On: 7/23/2012 at 4:38:08 PM

AR4821224A AAAR482AA ICAL 1220399999

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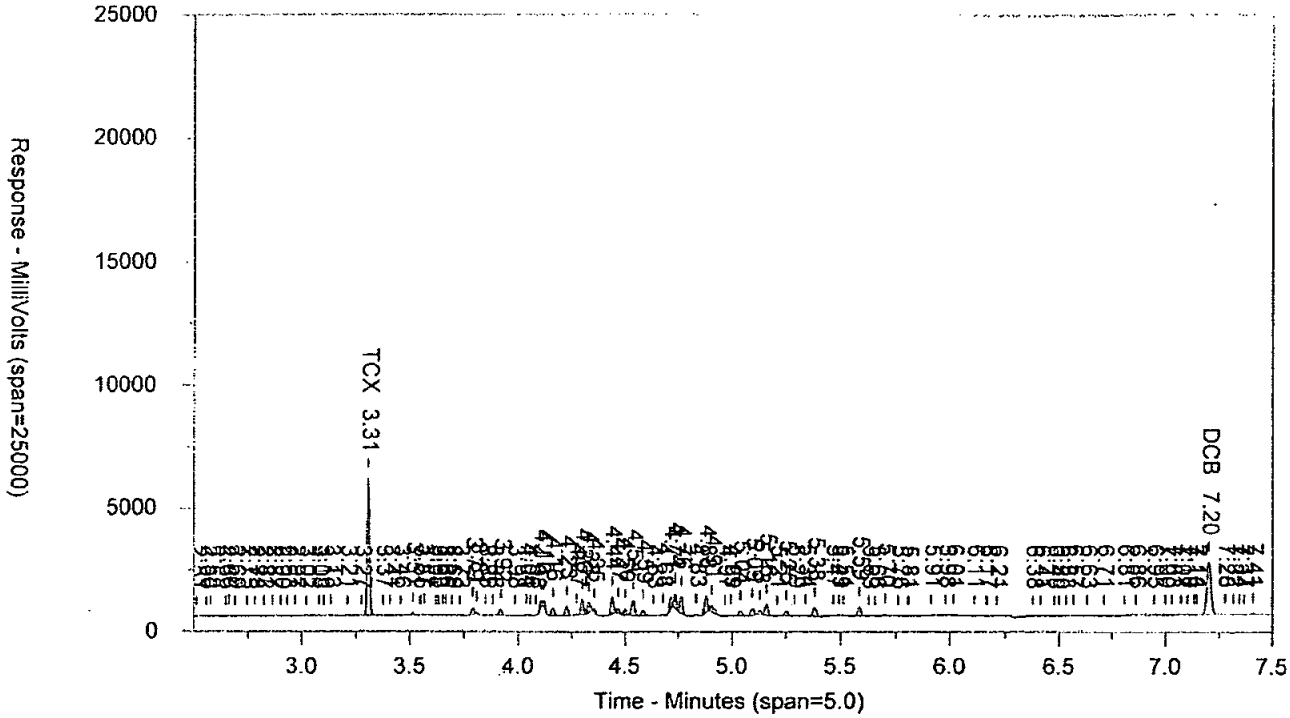

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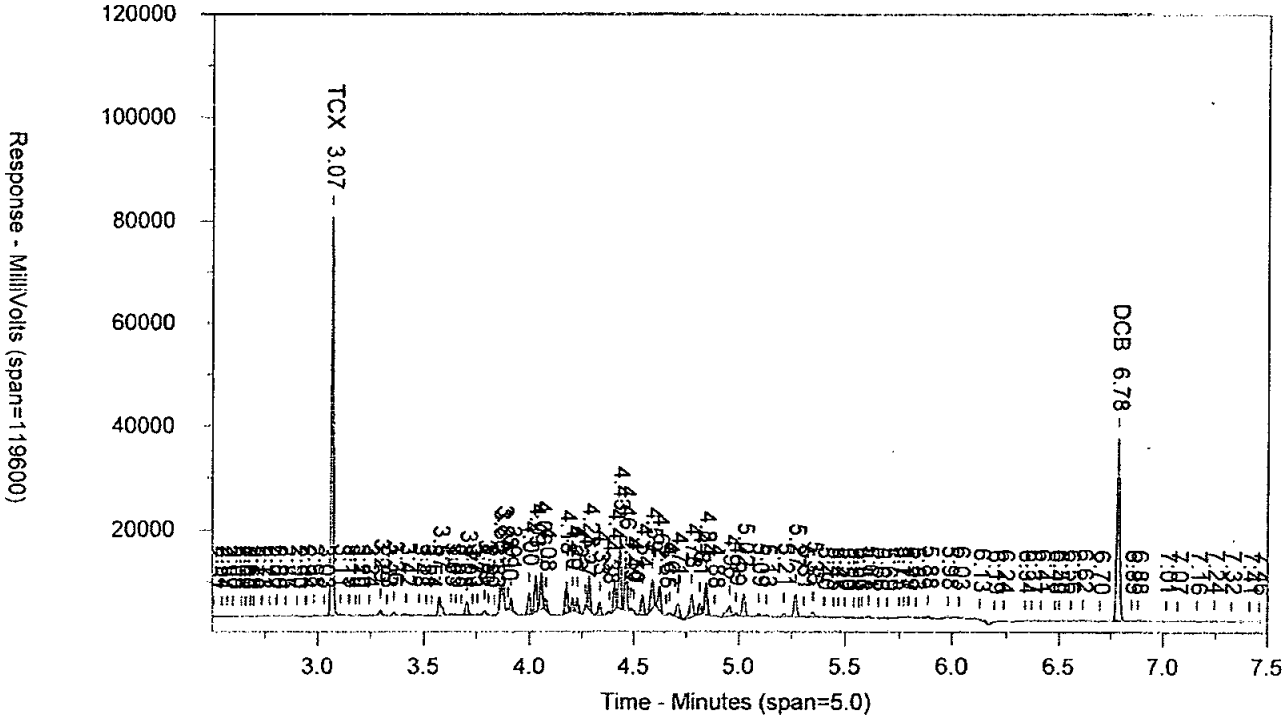

ASX73 1671

LANCASTER LABORATORIES

Sample Number: AR4831224A AAAR483AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 2:15:38 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0013.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.512		10005	6849
2.578		65148	49342
2.636		2347	1063
2.664		62374	48348
2.691		26898	23502
2.746		2241	1481
2.819		3039	3305
2.84		1615	782
2.882		4131	5934
2.932		3541	3820
2.968		3615	3870
3.027		4336	4061
3.096		2795	2413
3.135		15286	21904
3.208		6601	10048
3.261		1824	683
3.308	TCX	10852620	8053042
3.374		3105	2725
3.408		9340	7057
3.459		14119	14183
3.514		204062	153294
3.568		120983	94017
3.619		1501	717
3.651		24213	12830
3.666		23352	13119
3.733		9115	10106
3.792		527673	387341
3.811		159072	91059
3.851		46492	37546
3.886		9896	6199
3.92		496779	426579
3.986		33199	33655
4.039		106204	77194
4.056		20742	11457
4.081		6034	3168
4.106		487091	322462
4.12		480156	302906
4.161		591746	545612
4.228		710316	659166
4.273		94313	66375
4.299		1151363	997748
4.33		775076	708255
4.355		212194	143354
4.44		1277430	1144532
4.468		390927	306151
4.501		506705	433665
4.54		1162589	1260167
4.586		416319	393610
4.634		52433	53596
4.678		149421	144249
4.715		865690	701074
4.737		1077243	794206
4.764		1245884	1128634
4.836		150550	162976

B Jun 2855
23 July 12

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RT A	Compound A	Height A	Area A
4.881		1233446	1187096
4.906		451559	573340
4.966		24398	19555
4.993		80713	70937
5.039		390360	402175
5.096		537643	546077
5.131		294890	243377
5.161		841194	827708
5.21		14297	11394
5.252		374434	388904
5.292		78988	110419
5.341		111298	107810
5.383		644951	695766
5.467		58692	118881
5.493		48373	34451
5.514		46128	36363
5.587		670241	699558
5.631		18464	15110
5.658		13982	19104
5.703		155574	177312
5.744		7429	4020
5.764		5189	3808
5.806		5344	4860
5.914		59469	76601
5.982		29087	44599
6.016		15097	28318
6.109		30691	30321
6.138		5625	3498
6.165		30438	28171
6.203		2800	1679
6.236		1874	1164
6.268		37346	53349
6.374		33957	162789
6.429		5178	10423
6.453		1611	449
6.53		2813	1087
6.567		47316	57235
6.613		2101	644
6.64		2106	2537
6.682		2231	737
6.712		3442	4463
6.775		2485	3137
6.815		11575	22502
6.885		2970	1850
6.918		2629	3166
6.949		2324	1170
6.983		5024	6408
7.028		41352	51188
7.099		1369	1257
7.137		1470	868
7.158		2068	958
7.201	DCB	3996927	5422370
7.363		2014	1444
7.411		30830	45073
7.492		2339	1770
7.53		2433	2043
7.564		6230	8035
7.609		5642	6439
7.644		10153	13124
7.691		2523	2366
7.764		2037	1715
7.847		2584	1763
7.875		2389	1325
7.972		2704	2658
8.028		1296	802
8.05		2234	1123

RT A	Compound A	Height A	Area A
8.067		2239	1287
8.106		1708	635
8.116		2168	589
8.204		1521	1458
8.257		10121	21626
8.304		1660	633
8.349		1805	952
8.383		2975	3767
8.456		2228	2448
8.493		5020	8440
8.567		9644	21297
8.624		2753	812
8.653		1948	847
8.678		13245	20483

LANCASTER LABORATORIES

Sample Number: AR4831224A AAAR483AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 2:15:38 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0013.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.511		53296	25539
2.524		55152	86642
2.567		60921	55273
2.605		26348	20459
2.619		32514	21156
2.63		32765	25242
2.656		32018	30439
2.673		23643	16060
2.688		20112	6180
2.698		34865	20888
2.728		28306	23152
2.735		33164	18427
2.761		14355	5272
2.768		19470	9332
2.783		17771	7536
2.805		51729	38650
2.844		27716	21440
2.887		92810	276155
2.941		125742	197068
2.978		178716	190726
3.009		18483	7695
3.032		48135	37808
3.068	TCX	151779500	106671200
3.11		77507	41848
3.145		90110	53463
3.194		161397	148809
3.239		187833	209960
3.259		16242	4923
3.271		25468	8115
3.294		1870814	1513418
3.359		1208538	937478
3.417		435296	337145
3.444		68053	75011
3.478		494628	401886
3.515		40887	38180
3.539		73747	81559
3.574		6985842	7073948
3.629		551657	392562
3.652		70894	41905
3.679		117130	64497
3.704		5111426	4274526
3.752		97109	51634
3.773		91522	48640
3.788		1339368	818001
3.804		265217	125717
3.835		45687	50148
3.861		6098275	3560422
3.874		6740314	3564873
3.896		948982	414779
3.911		5299149	3597943
3.996		8768862	6862265
4.028		15185610	10742540
4.056		14268060	10549530
4.078		4612594	2878028

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RT B	Compound B	Height B	Area B
4.144		29654	21721
4.176		14096430	11614840
4.206		5779852	3812679
4.229		6093621	4219042
4.266		1617289	901065
4.283		13657380	9835459
4.334		5135043	4598328
4.382		1057238	986059
4.407		11493180	8130674
4.432		28739010	21560300
4.461		21661010	16410780
4.486		1024095	547928
4.5		601675	313758
4.541		7908111	7116919
4.588		11628930	11538470
4.622		9766792	8212563
4.671		1069631	919680
4.71		5216011	5296128
4.776		8702989	8747184
4.815		4631850	3713515
4.845		12480180	10817810
4.887		370117	455196
4.955		4174614	5696722
4.986		1226613	1046664
5.022		8903839	8460989
5.094		1017820	1109498
5.13		856431	866695
5.211		1332897	1481610
5.269		8641927	7927065
5.307		336410	280643
5.351		1914558	2354843
5.402		221181	200005
5.467		51455	40011
5.493		29464	22945
5.522		10115	3147
5.538		84164	71357
5.582		141684	102462
5.61		747774	764621
5.659		92233	79855
5.692		49711	38781
5.751		210334	154472
5.769		207440	137289
5.792		59625	35832
5.821		40292	29646
5.838		68400	56335
5.886		485610	805720
5.982		270156	558090
6.032		333242	3520937
6.194		423623	484808
6.243		21358	49685
6.264		41072	49556
6.299		15298	7730
6.314		10953	5874
6.35		12080	25022
6.412		77254	91160
6.504		12060	5563
6.544		47187	74475
6.587		10195	3121
6.616		502692	498037
6.708		12474	12807
6.785	DCB	69805180	69491380
7.002		12259	11808
7.027		18176	29149
7.14		8617	2273
7.16		71444	72963
7.199		8172	4699

RT B	Compound B	Height B	Area B
7.243		226954	326890
7.291		11224	4998
7.327		84072	105014
7.462		9589	10214
7.517		77112	91926
7.582		13122	25492
7.665		6047	2938
7.714		12123	7856
7.769		84028	113871
7.862		8118	3280
7.908		7332	3491
7.958		47435	74185
7.999		7042	2920
8.032		95498	148477
8.09		12324	12755
8.119		9367	4391
8.152		10602	4879
8.2		5444	11640
8.214		9687	2702
8.247		6773	1987
8.259		10002	3345
8.287		10874	6431
8.316		5782	4610
8.419		11918	27059
8.467		7591	11287
8.5		9591	4401
8.524		12953	8772
8.548		8264	6189
8.588		12174	10499
8.609		9731	7489
8.633		8603	4870
8.665		6526	5395
8.682		10432	2121

AR4831224A AAAR483AA ICAL 1220399999

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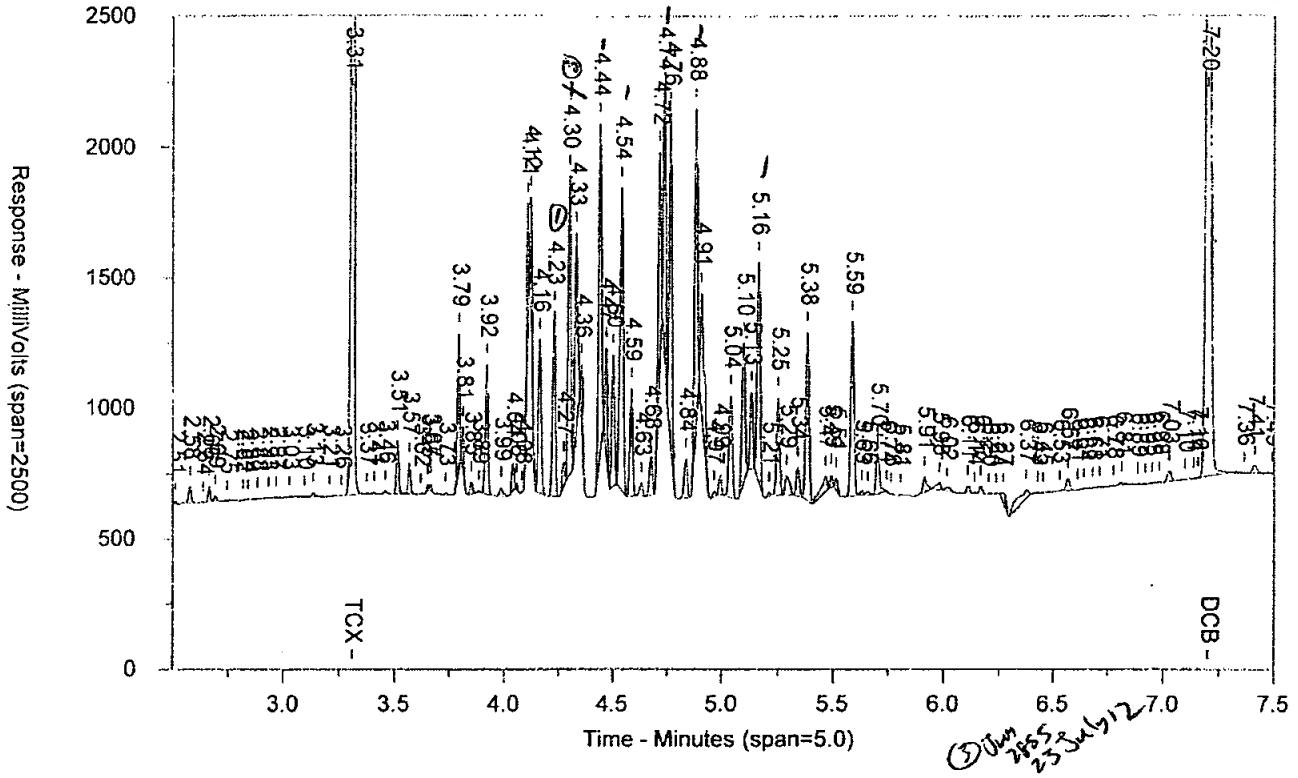

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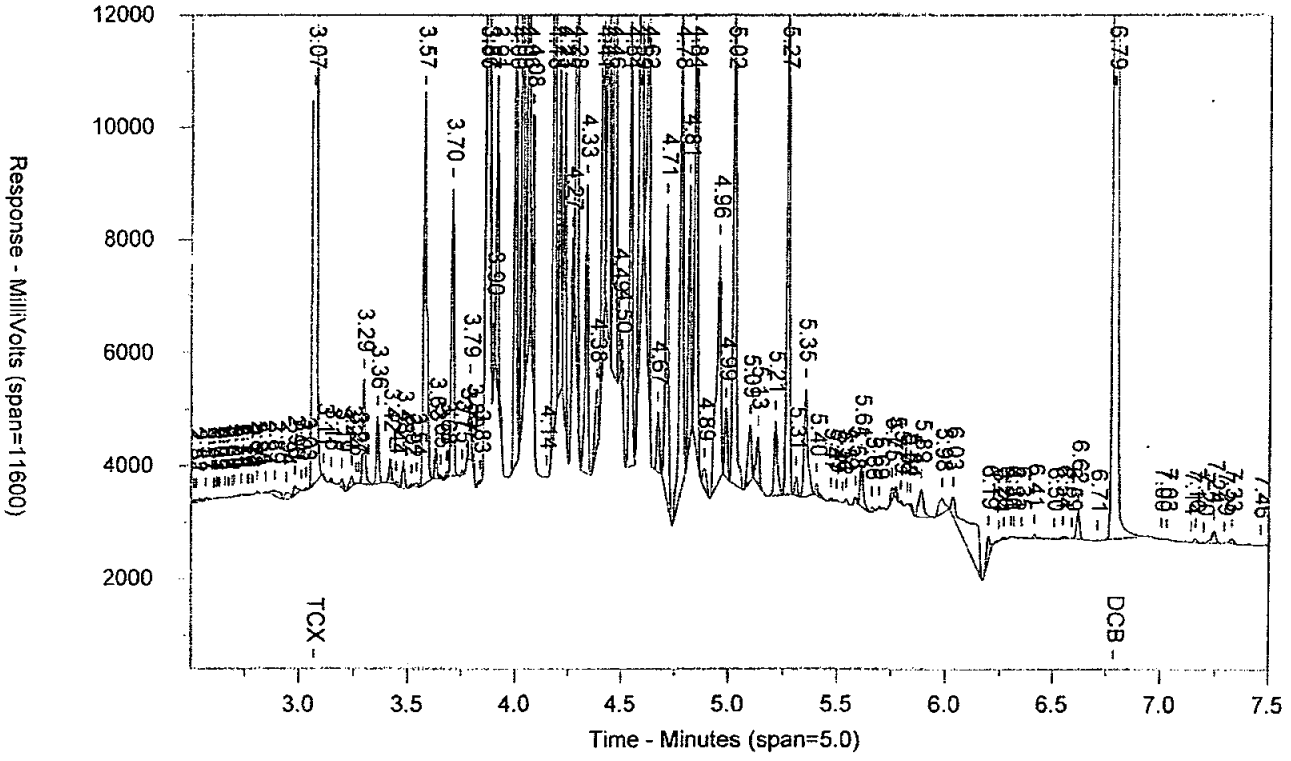

ASX73 1678

LANCASTER LABORATORIES

Sample Number: AR4831224A AAAR483AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 2:15:38 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.308	10852620	42.648	TCX	3.068	151779500	42.06	TCX
7.201	3996927	39.744	DCB	6.785	69805180	38.833	DCB

Files:
Area File: 1p20205.0013.RAW
Area File: 1p20205B.0013.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 2:24:21 PM
File Reported On: 7/23/2012 at 4:38:14 PM

AR4831224A AAAR483AA ICAL 1220399999

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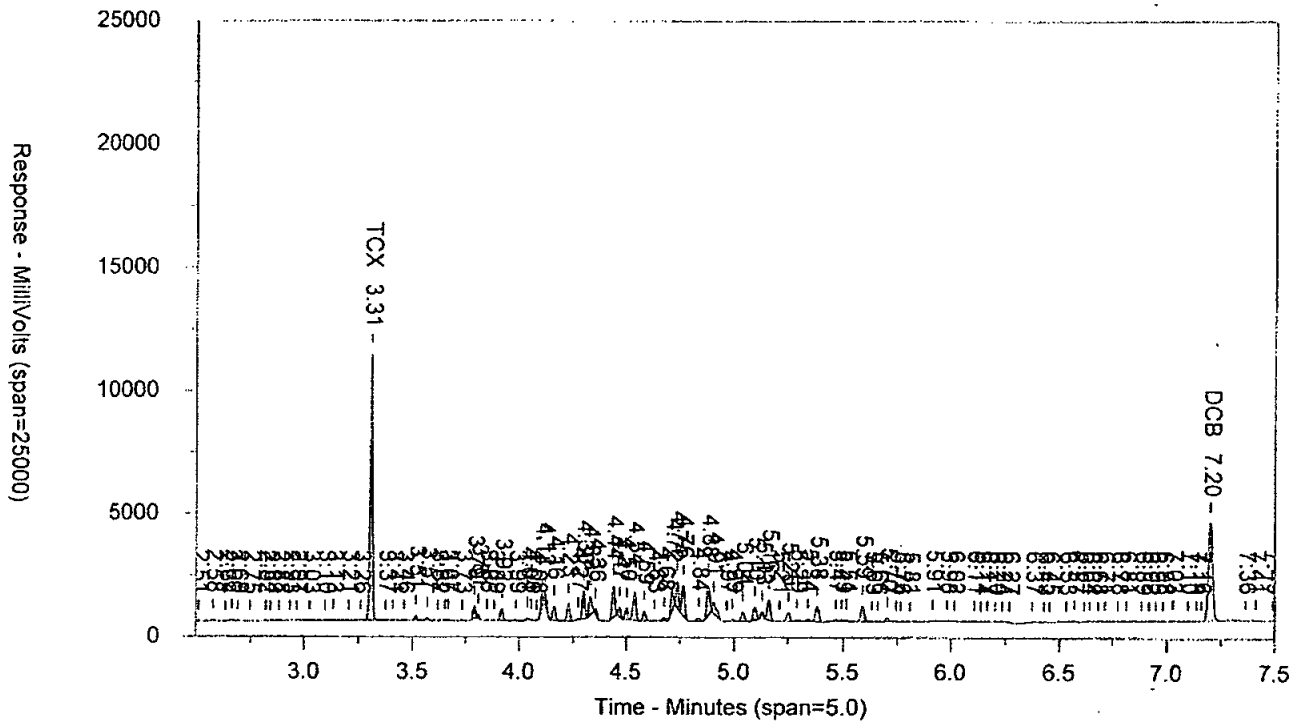

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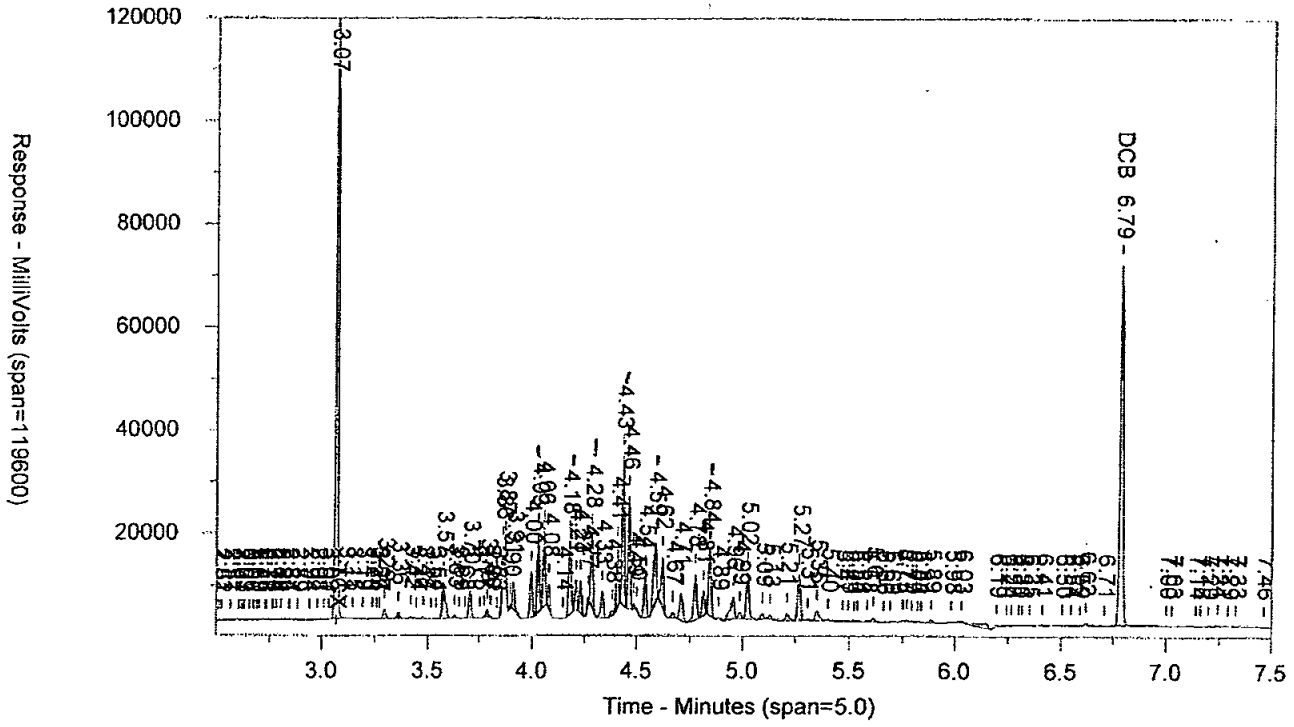

ASX73 1600

LANCASTER LABORATORIES

Sample Number: AR4841224A AAAR484AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 2:27:00 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0014.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.513		11516	8040
2.542		2911	1594
2.557		6555	4517
2.578		97016	75733
2.663		53566	40155
2.691		37520	29362
2.742		2205	1475
2.791		2168	1872
2.81		1342	630
2.836		2489	1932
2.887		4215	6349
2.934		6258	7736
2.976		3682	3421
2.995		2331	1394
3.021		12861	9094
3.081		2440	1785
3.105		1986	1167
3.135		9769	7113
3.207		13404	18815
3.247		2012	1020
3.307	TCX	15259360	11467100
3.376		3283	2087
3.408		5783	4229
3.456		31113	28532
3.514		293875	227435
3.566		265595	203553
3.633		2562	1565
3.651		27713	14207
3.665		61178	35621
3.73		3400	4326
3.791		1101677	814669
3.81		339603	195177
3.85		103283	80187
3.884		19096	11335
3.919		1058436	912340
3.954		4377	2786
3.984		48346	53160
4.038		233834	170079
4.056		51075	28870
4.105		1077516	726059
4.119		1045238	654868
4.16		1220216	1171487
4.226		1505998	1423467
4.272		200175	139212
4.298		2345055	2055496
4.328		1541947	1435955
4.354		480481	326800
4.438		2715083	2413005
4.466		836695	641290
4.5		1032615	910386
4.538		2452211	2676882
4.585		875769	841127
4.631		118552	116988
4.676		308938	307550

ASX73 1681

RT A	Compound A	Height A	Area A
4.714		1824725	1451384
4.735		2367506	1708296
4.763		2897089	2448690
4.834		332803	358005
4.88		2663175	2523698
4.905		993257	1235419
4.965		53879	43242
4.992		180001	157222
5.038		816020	862792
5.093		1153739	1157733
5.129		632448	526578
5.16		1793129	1763549
5.208		35045	26959
5.251		808633	819434
5.289		166936	238027
5.34		234707	235068
5.382		1352394	1447169
5.465		121848	175709
5.491		108291	75672
5.512		98484	77772
5.547		5709	4256
5.586		1467847	1514622
5.629		40951	33201
5.655		30861	39926
5.7		328965	316881
5.724		15320	7158
5.743		17759	10462
5.763		8240	6151
5.807		13756	11928
5.847		7219	9411
5.88		2938	1825
5.913		133393	176846
5.982		30929	48993
6.023		19733	32941
6.108		81041	75592
6.134		12497	7888
6.164		70495	67073
6.208		4170	5112
6.374		60658	192935
6.425		11635	23285
6.486		1575	796
6.565		67050	88279
6.629		4877	4503
6.652		4413	3379
6.688		1833	546
6.71		4071	3789
6.808		20043	33287
6.899		3225	4428
6.935		1539	2352
7.026		60585	72110
7.097		1858	1167
7.199	DCB	5467360	7613016
7.407		22297	33501
7.493		1595	807
7.547		2720	3399
7.56		4152	3314
7.603		7476	7924
7.642		9031	13928
7.763		2338	955
7.783		4682	5317
7.82		2348	987
7.865		3002	2081
7.899		3049	905
7.925		2380	1550
7.954		1672	886
7.988		1423	2505

ASX73 1682

RT A	Compound A	Height A	Area A
8.015		1863	1070
8.069		2151	2713
8.086		1882	966
8.102		2588	2282
8.136		1895	2124
8.2		2410	2036
8.251		11768	23499
8.351		1446	2211
8.415		2322	1141
8.444		1843	988
8.476		2310	551
8.493		4490	5084
8.558		11591	23572
8.639		1924	735
8.676		10904	17348

ASX73 1683

LANCASTER LABORATORIES

Sample Number: AR4841224A AAAR484AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 2:27:00 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0014.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.521		26716	17879
2.554		17439	16515
2.575		29227	30339
2.617		19219	10343
2.632		28786	10358
2.659		13072	3201
2.709		25826	36656
2.732		55868	42100
2.767		16281	17487
2.779		14735	5877
2.805		114086	80034
2.833		8716	2286
2.85		21489	16157
2.885		215734	779396
2.946		251365	444804
2.979		162555	234009
3.033		30296	21911
3.067	TCX	213702500	152351000
3.108		145930	93283
3.145		42802	26052
3.174		14900	5531
3.195		174032	160309
3.24		386645	369593
3.27		23551	12991
3.294		2750680	2206972
3.359		2700073	2004516
3.417		674732	471843
3.442		24304	28762
3.477		979631	724656
3.511		54780	41799
3.54		80658	78913
3.573		15285010	15708540
3.628		1106765	807040
3.651		141316	75941
3.678		238205	137748
3.703		11742340	9702112
3.736		42425	16955
3.751		52806	29039
3.787		2721347	1904855
3.805		644223	345322
3.835		22966	15782
3.86		14972510	8459444
3.873		18655710	9252680
3.894		2095351	912914
3.91		12451050	8525439
3.995		21257860	16257150
4.027		35715770	25084280
4.056		34734820	25150890
4.077		11823890	7096836
4.175		35848650	29405570
4.204		13954380	9194005
4.227		14933350	10408370
4.265		3121530	1841935
4.281		34650220	24073620

RT B	Compound B	Height B	Area B
4.332		12268060	10751960
4.38		2694843	2398510
4.405		28428890	20275220
4.43		66876590	52178960
4.46		55495680	40991100
4.484		2548044	1317756
4.497		1463583	803021
4.539		20000120	17244670
4.587		30968660	29276700
4.607		613899	270131
4.62		24279640	16727820
4.649		56363	17420
4.67		2582070	2170737
4.709		12563190	11703050
4.775		21743060	20147040
4.813		12176660	9367083
4.843		32770550	27568290
4.885		688998	833169
4.953		9922396	13384360
4.984		2851793	2403428
5.02		21832020	19190430
5.047		264897	192733
5.092		2336226	2146914
5.128		2075764	2158481
5.21		3249250	3242792
5.267		22677600	20605310
5.306		861180	769212
5.348		4550474	5458408
5.401		525886	537168
5.467		58260	42373
5.493		100880	94460
5.537		261146	276525
5.579		322489	259390
5.608		1621898	1470362
5.654		203257	197330
5.693		103709	89130
5.711		44054	22971
5.749		580420	426981
5.768		483020	317041
5.789		122226	80195
5.838		31038	22892
5.883		395790	561059
5.983		359974	673408
6.032		699097	674610
6.13		106097	508281
6.192		566617	598329
6.26		104162	235314
6.311		87066	107100
6.357		24650	24044
6.41		181858	211947
6.463		14006	5523
6.503		30694	45966
6.552		34684	49478
6.614		764171	757576
6.679		13870	5014
6.728		7742	1103
6.783	DCB	101085800	102898900
7.026		12186	19002
7.116		12635	6315
7.158		106400	120382
7.222		18760	19097
7.242		167097	178109
7.286		12115	4729
7.294		11913	4689
7.326		78406	99364
7.4		24964	31207

ASX73 1685

RT B	Compound B	Height B	Area B
7.516		98247	220910
7.673		12545	4687
7.687		9618	4256
7.737		9223	3666
7.766		124091	175659
7.856		11298	5294
7.954		78794	143476
8.03		147014	230972
8.08		13934	11539
8.119		9548	6542
8.171		10560	6606
8.214		7787	9035
8.232		9769	2563
8.246		10364	4422
8.271		9419	7663
8.305		12773	4099
8.362		17355	27871
8.41		8969	8521
8.424		20142	17364
8.473		12997	10819
8.516		11610	13133
8.556		10551	14973
8.588		6797	4168
8.621		13190	9658
8.665		9708	7630

AR4841224A AAAR484AA ICAL 1220399999

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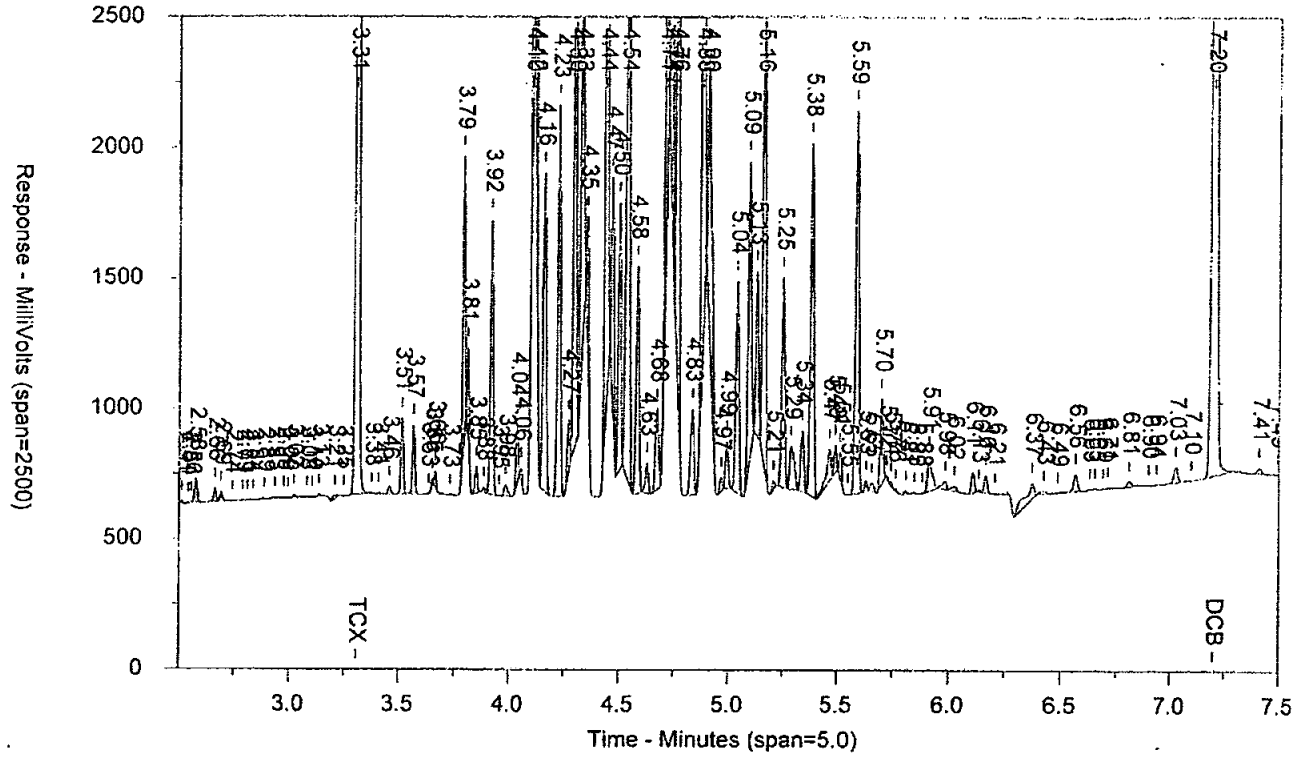

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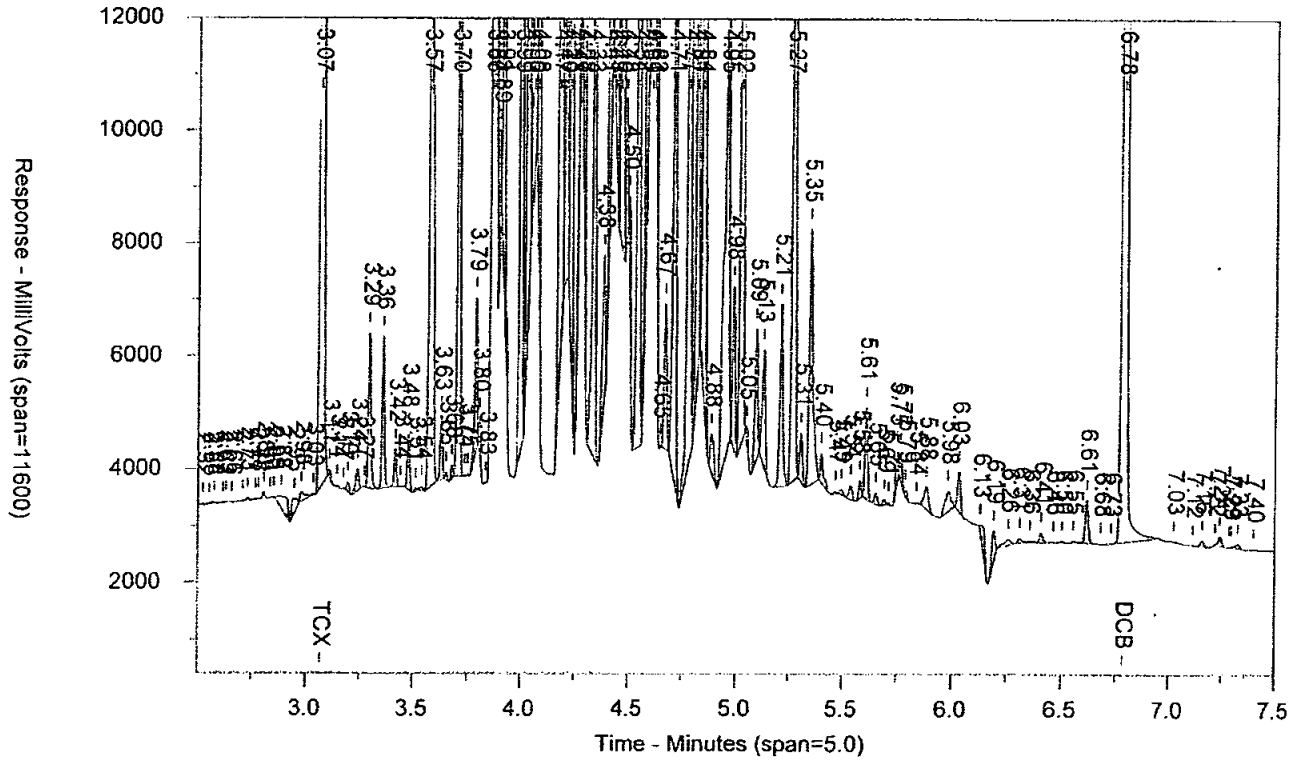

ASX79 1687

LANCASTER LABORATORIES

Sample Number: AR4841224A AAAR484AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 2:27:00 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	15259360	59.965	TCX	3.067	213702500	59.22	TCX
7.199	5467360	54.366	DCB	6.783	101085800	56.235	DCB

Files:
Area File: 1p20205.0014.RAW
Area File: 1p20205B.0014.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 2:35:44 PM
File Reported On: 7/23/2012 at 4:38:20 PM

AR4841224A AAAR484AA ICAL 1220399999

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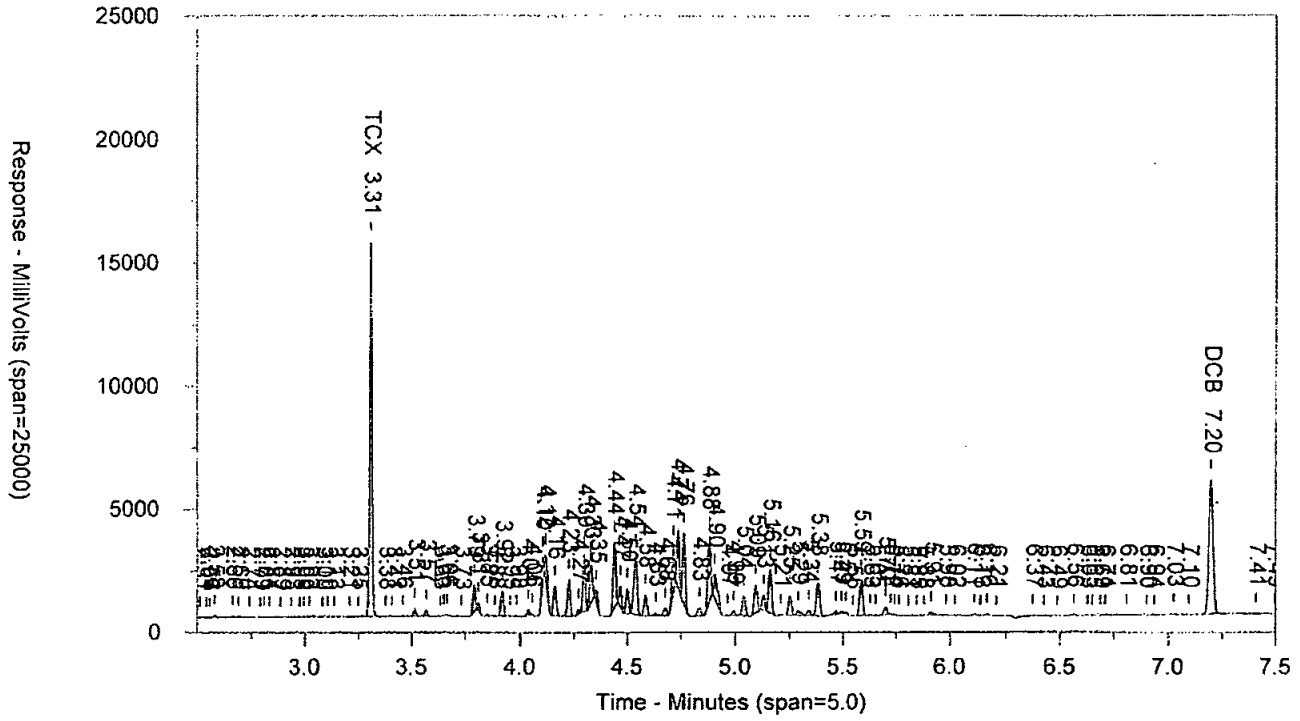

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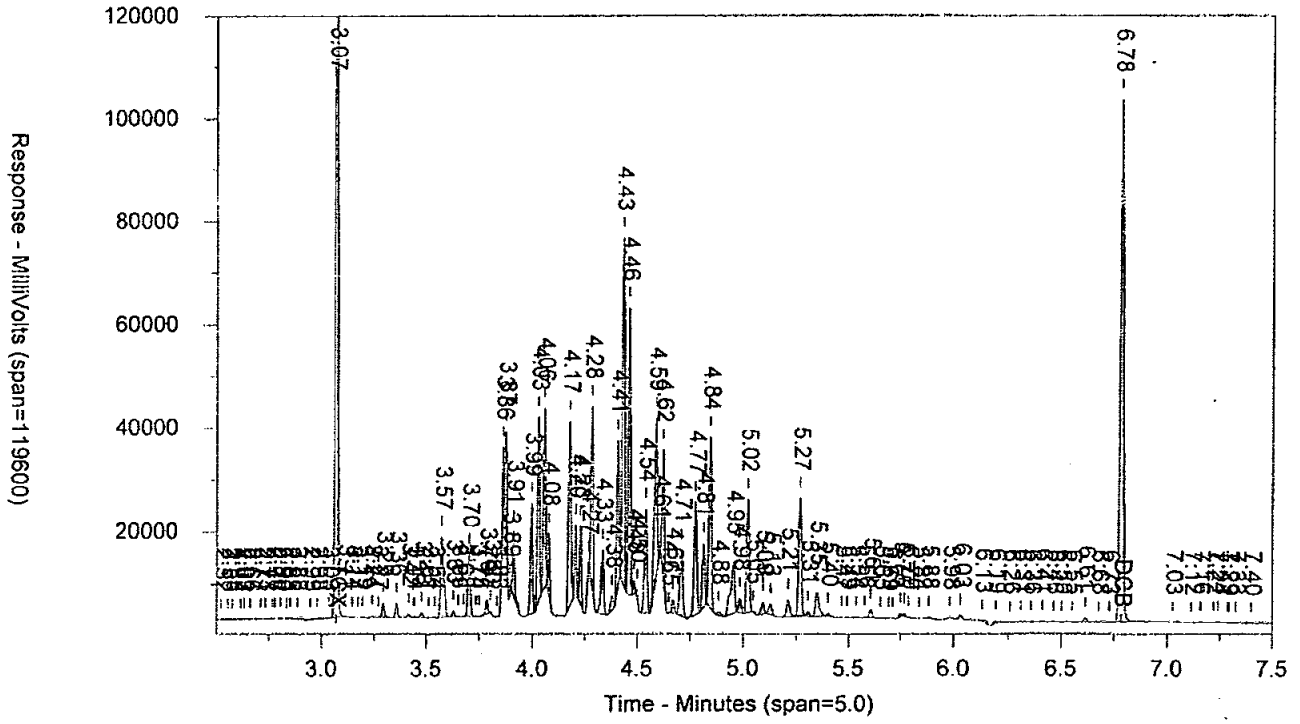

LANCASTER LABORATORIES

Sample Number: AR4851224A AAAR485AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 2:38:23 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0015.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.511		30418	21067
2.556		8191	5083
2.578		128364	100165
2.624		3291	3168
2.663		63696	50963
2.692		52043	38924
2.748		3448	2853
2.785		2838	2378
2.813		2013	894
2.838		1953	1220
2.87		2753	1941
2.931		9642	11341
2.972		7157	10156
3.019		6699	6332
3.076		9238	11856
3.134		15412	24465
3.22		2983	6416
3.246		2244	1305
3.307	TCX	19988410	15127000
3.408		8548	6002
3.457		56334	53699
3.513		406171	314760
3.539		2334	1022
3.566		495394	377453
3.63		2863	1494
3.65		20940	12409
3.664		131948	81170
3.791		1970385	1456578
3.81		594938	358729
3.85		190259	153932
3.883		39628	23731
3.918		1948312	1665681
3.955		8118	4800
3.984		65000	74178
4.037		423486	320782
4.056		99704	56463
4.104		1871297	1236700
4.118		1906194	1205615
4.16		2274117	2138445
4.226		2838984	2619644
4.272		365781	262140
4.298		4406338	3779508
4.329		2886159	2588353
4.354		842786	565063
4.438		5209909	4451016
4.466		1499526	1171913
4.5		1924319	1651008
4.539		4454864	5011516
4.585		1580410	1536323
4.632		209644	212903
4.676		570287	557802
4.715		3288925	2685665
4.735		4312257	3129548
4.762		5205350	4507144

ASX73 1690

RT A	Compound A	Height A	Area A
4.834		609768	663194
4.88		5224357	4750039
4.905		2040715	2353324
4.966		97683	78786
4.992		325562	283592
5.038		1458362	1574979
5.094		2140611	2119301
5.129		1181052	955162
5.16		3376040	3268200
5.208		72509	74111
5.251		1478068	1506191
5.289		302889	439763
5.34		447189	438773
5.382		2561502	2676711
5.467		226037	330091
5.491		196689	140676
5.513		206708	155238
5.548		12252	9705
5.586		2751187	2868520
5.629		77272	63318
5.655		62717	83275
5.702		589563	586621
5.724		28225	13219
5.743		36784	20381
5.764		20368	12147
5.808		23886	21589
5.845		14137	18235
5.881		2129	2277
5.912		256086	341830
5.96		4663	2571
5.986		9388	7922
6.018		180680	502249
6.109		141529	136167
6.135		20666	14637
6.164		133194	127521
6.199		4978	6700
6.241		2065	846
6.375		103162	249360
6.413		7386	6900
6.469		1860	1009
6.531		1743	3978
6.565		93028	107560
6.627		6052	6073
6.65		10577	9909
6.714		13926	46734
6.808		37840	63485
6.875		2488	1459
6.915		1569	557
6.939		2045	1196
6.99		1538	1975
7.026		84754	100364
7.076		1557	1572
7.097		1942	2117
7.143		1910	1965
7.2	DCB	7629627	10118780
7.325		3802	2603
7.407		88113	135531
7.538		3524	4347
7.566		4210	2722
7.606		11188	12670
7.643		10678	12423
7.69		5302	6062
7.783		4743	7335
7.876		2773	4820
7.95		2092	1681
7.995		3152	1066

RT A	Compound A	Height A	Area A
8.013		2543	997
8.061		2602	2123
8.082		2367	1442
8.106		3031	1790
8.195		1185	638
8.254		18182	35528
8.306		3237	3124
8.349		1663	1299
8.376		2033	1419
8.416		2438	969
8.445		1676	1822
8.492		8068	13878
8.557		14973	26284
8.618		1510	1248
8.666		2090	2454

LANCASTER LABORATORIES

Sample Number: AR4851224A AAAR485AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 2:38:23 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0015.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.503		14719	2383
2.546		33964	24837
2.57		45581	39449
2.601		15786	10119
2.622		36180	24409
2.632		30563	32723
2.67		33552	22808
2.7		32199	38499
2.733		72899	50965
2.787		14844	13227
2.804		55450	44620
2.845		24945	16780
2.868		39400	286976
2.939		176114	260392
2.979		195920	197474
3.008		19917	7830
3.029		81954	64909
3.068	TCX	283938600	206078100
3.109		269332	154280
3.147		195880	129393
3.198		688019	744874
3.239		649923	487670
3.269		42023	17817
3.294		3644690	3075937
3.33		25061	5382
3.359		5195156	3743641
3.417		841200	619037
3.477		1803892	1365057
3.511		98281	74803
3.533		75773	74889
3.573		28827610	30226330
3.628		2176276	1538795
3.652		293871	172493
3.678		425334	249486
3.703		23392870	19263800
3.738		58815	29447
3.787		5414077	3643823
3.805		1357578	735648
3.836		29889	12648
3.861		28223720	16993090
3.873		34657350	17604720
3.895		3966439	1753190
3.911		24844160	17166280
3.995		42543790	32847080
4.027		67026940	49306120
4.056		67594940	49393610
4.077		23387300	14459280
4.175		59706880	49232620
4.204		29646670	19223620
4.227		30079950	21208100
4.265		7836953	4469856
4.282		68078750	49073990
4.333		25660150	21932130
4.379		5299234	4824500

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RT B	Compound B	Height B	Area B
4.406		58170850	41905880
4.431		125586400	99517330
4.461		103993100	82943880
4.484		5217031	2693094
4.499		3680468	2037996
4.54		41043490	36171210
4.587		62192800	61154710
4.621		58414850	47680130
4.649		84990	26516
4.669		5385770	4517746
4.71		25998560	24420990
4.775		45145080	43019540
4.814		25007510	20102980
4.844		70682770	58449960
4.885		1332933	1484160
4.935		1052977	1211248
4.954		17682770	15006660
4.985		6157239	5125545
5.021		47200660	44216870
5.093		4715525	4444929
5.129		4443112	4484512
5.211		6549664	6074754
5.268		50572560	44727820
5.306		1790553	1521518
5.349		9514534	11204890
5.401		919195	659907
5.419		153734	89545
5.468		59674	42625
5.494		236267	254044
5.538		531700	586142
5.58		648625	535893
5.608		3214263	2877321
5.656		410638	386105
5.692		218965	167586
5.712		100137	58168
5.749		1206034	851928
5.767		847758	581229
5.79		392637	252023
5.836		40660	37099
5.884		345461	467837
5.984		1814615	4181415
6.031		1213845	1146044
6.192		855573	856240
6.229		151315	369205
6.312		243100	557443
6.409		323916	325389
6.442		26007	14454
6.468		10326	6159
6.499		93337	111885
6.556		43736	66142
6.615		1102736	1095701
6.68		12265	3299
6.704		14918	10181
6.739		8640	3588
6.784	DCB	143331600	141957400
6.85		37140	33657
6.886		31357	37226
6.962		25983	22285
7.158		139366	152827
7.241		741203	954465
7.291		25550	21154
7.324		69516	81113
7.401		47194	69650
7.483		8500	3683
7.514		90162	128901
7.699		10841	11126

RT B	Compound B	Height B	Area B
7.725		12988	4049
7.766		167815	261712
7.835		9631	6305
7.862		9452	12648
7.884		11051	8431
7.919		10347	3635
7.956		87834	151181
8.033		197213	331821
8.121		6672	2127
8.149		11217	9576
8.19		10614	4711
8.22		9913	4745
8.252		8961	7316
8.311		10072	4162
8.353		16838	20229
8.399		9371	4590
8.417		9763	3746
8.424		12796	5570
8.477		15261	26820
8.506		9043	7800
8.53		9861	3011
8.54		6080	2646
8.582		9439	2467
8.63		12896	17604
8.677		16680	9577

ASX73 1695

AR4851224A AAAR485AA ICAL 1220399999

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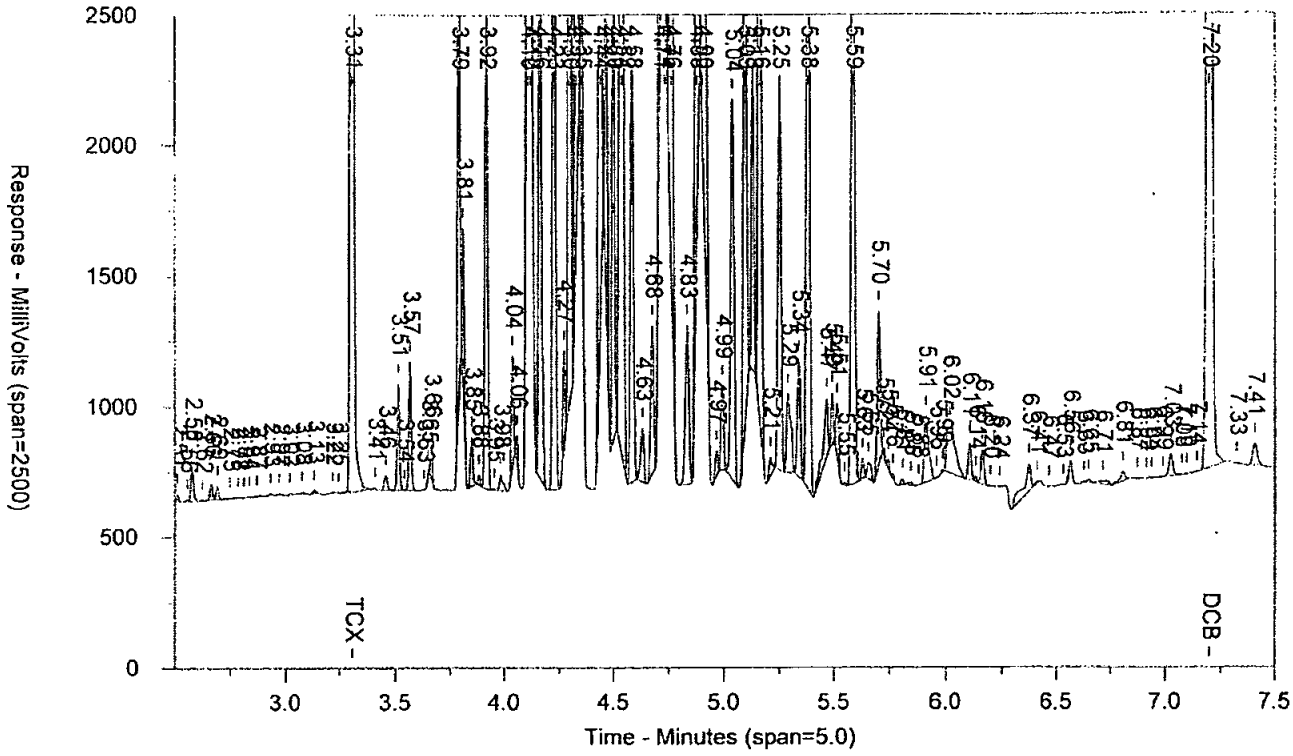

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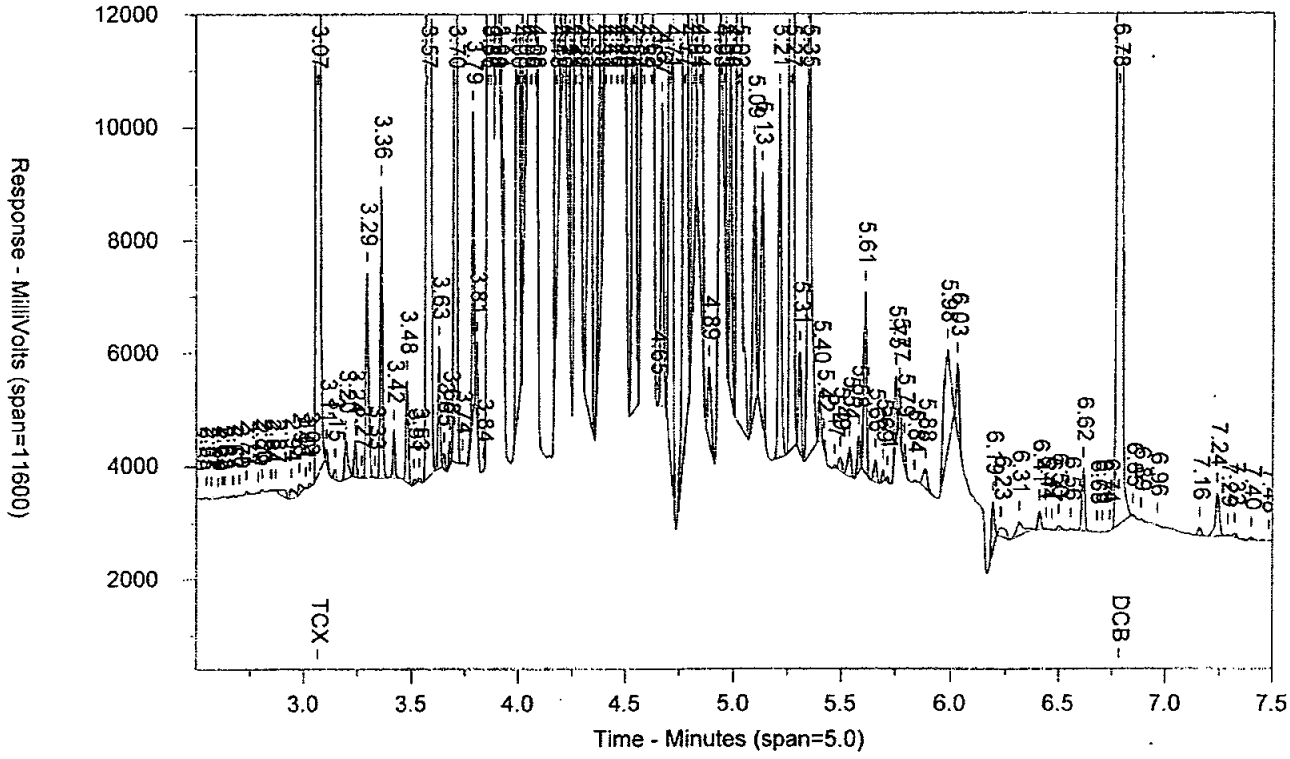

ASX73 1696

LANCASTER LABORATORIES

Sample Number: AR4851224A AAAR485AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 2:38:23 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	19988410	78.549	TCX	3.068	283938600	78.683	TCX
7.2	7629627	75.866	DCB	6.784	143331600	79.737	DCB

Files:
Area File: 1p20205.0015.RAW
Area File: 1p20205B.0015.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 2:47:06 PM
File Reported On: 7/23/2012 at 4:38:26 PM

ASX73 1697

AR4851224A AAAR485AA ICAL 1220399999

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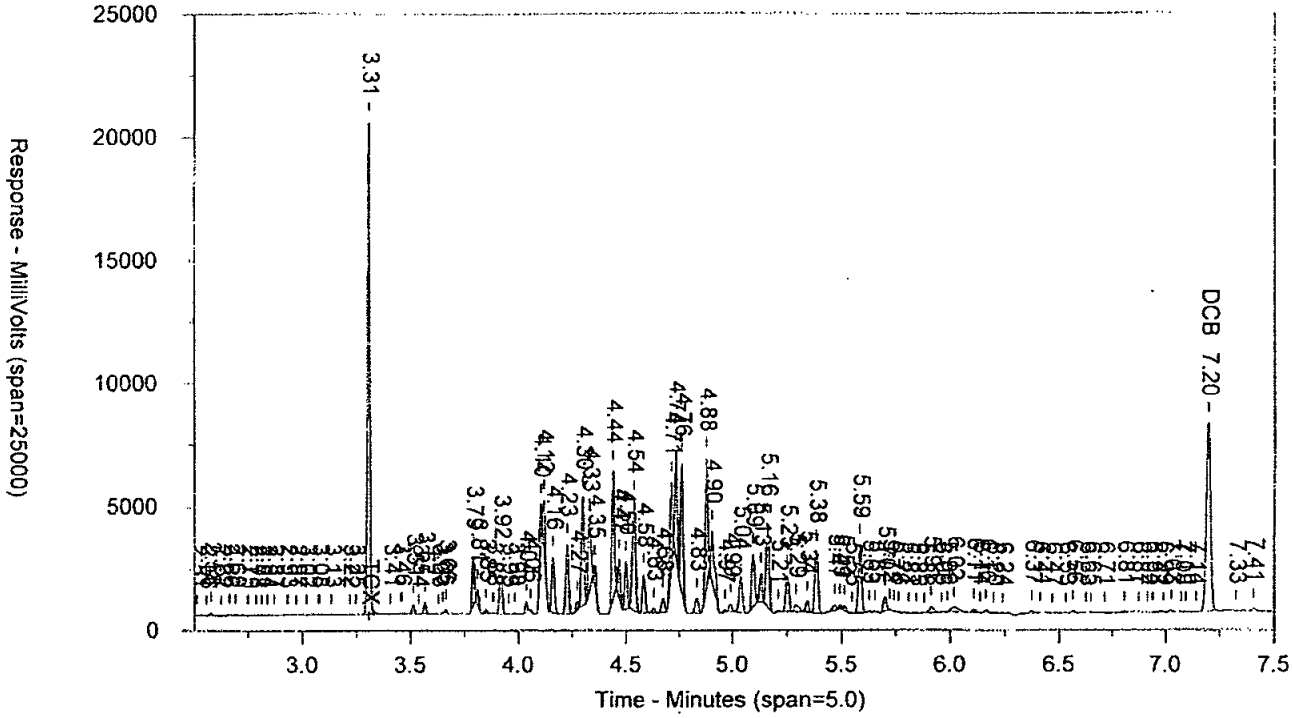

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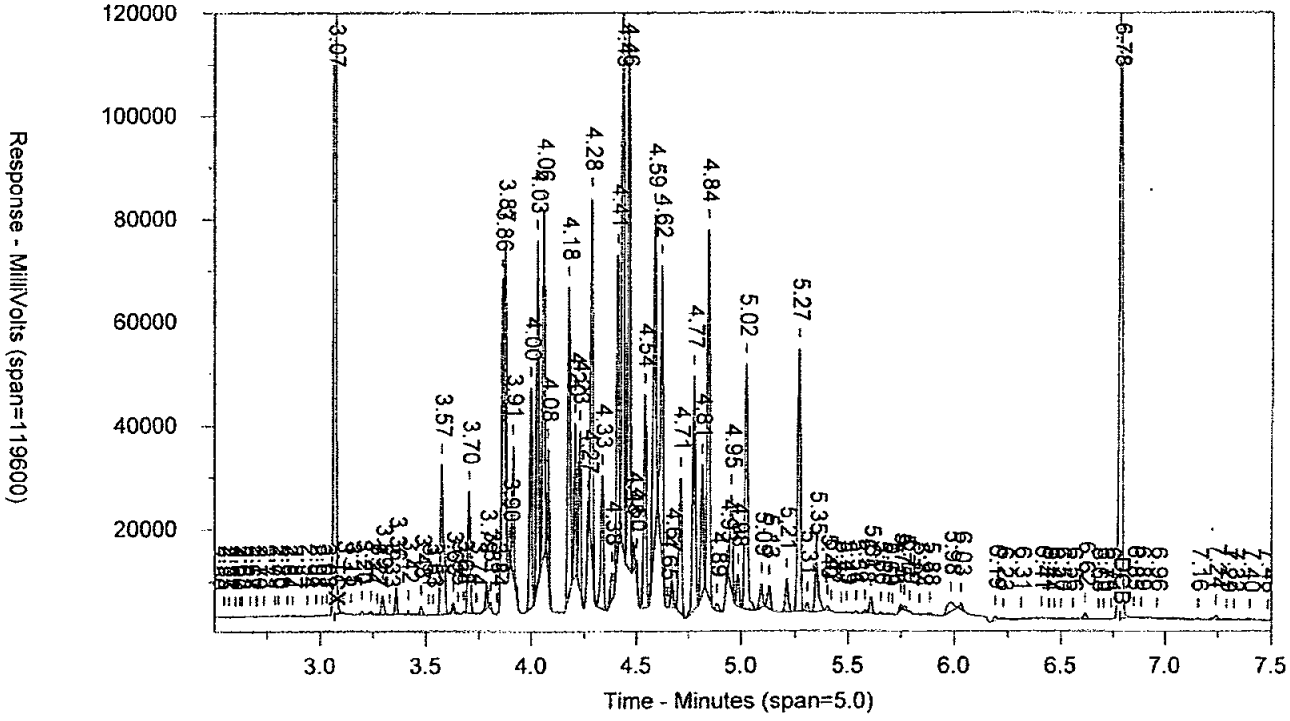

ASX73 1698

LANCASTER LABORATORIES

Sample Number: AR5411224A AAAR541AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 2:49:53 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0016.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.511		13522	9346
2.537		2472	1085
2.556		11390	9320
2.579		8470	9408
2.628		3691	4963
2.664		33707	26361
2.695		5051	6986
2.74		4352	7318
2.803		1820	787
2.823		4058	5910
2.884		4443	3375
2.93		5388	7531
2.971		1830	863
3.021		23466	17999
3.078		4243	4493
3.133		11310	27246
3.211		7294	10932
3.307	TCX	1371881	1082829
3.381		3956	3129
3.41		5163	5698
3.464		1991	737
3.513		22803	16350
3.566		7468	7732
3.632		7517	5128
3.653		5635	3608
3.72		2449	833
3.792		9111	8811
3.846		6717	5255
3.883		2193	1383
3.908		17519	29774
3.985		4705	5357
4.06		2365	932
4.083		4197	2943
4.106		6515	4453
4.12		8678	6920
4.161		10371	8040
4.184		2886	1870
4.228		11303	10884
4.26		2160	1290
4.298		308284	268971
4.329		72379	56486
4.349		9178	6686
4.416		1374	990
4.439		196559	172998
4.466		10150	7441
4.501		16981	13767
4.54		83025	78614
4.585		19578	17282
4.621		4125	2726
4.673		21514	25485
4.716		428684	363922
4.736		150948	102510
4.766		154031	137030
4.836		134976	133064

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RT A	Compound A	Height A	Area A
4.882		665157	727647
4.922		241662	231739
4.965		9349	6932
4.992		44626	39703
5.039		232689	235499
5.095		413215	409823
5.13		86881	63754
5.16		744325	753698
5.209		42462	33723
5.224		16773	8428
5.251		125411	113415
5.29		269345	310845
5.34		64958	59751
5.383		584451	623574
5.439		70646	94663
5.466		5116	1941
5.493		224066	197697
5.514		137462	99315
5.547		5126	3968
5.586		452974	473191
5.63		51734	43088
5.656		46760	66483
5.702		521473	507368
5.743		19640	11434
5.764		11702	6823
5.808		21875	19824
5.831		3867	2328
5.913		190028	259645
5.983		29741	42828
6.025		36752	67365
6.11		120111	117860
6.137		14782	8992
6.166		82256	81053
6.204		3072	2498
6.252		23300	91368
6.377		83391	214548
6.409		11154	12828
6.461		1876	577
6.532		2482	2261
6.565		6252	6499
6.623		5092	4780
6.654		5092	4948
6.709		4172	5028
6.731		4578	9095
6.817		16155	45809
6.854		1897	884
6.875		3527	4640
6.918		2761	916
6.961		2555	1927
6.995		1324	430
7.027		6081	7486
7.075		2597	2310
7.122		2997	2362
7.203	DCB	585844	773323
7.249		3334	3992
7.304		1547	834
7.352		1995	494
7.411		36025	56855
7.486		1793	1300
7.497		2828	1052
7.542		2216	2574
7.568		5126	6012
7.649		14926	25328
7.785		2165	1544
7.848		3965	3214
7.926		2728	1655

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RT A	Compound A	Height A	Area A
7.955		3236	1496
8.032		2002	527
8.097		1887	363
8.151		2797	4878
8.204		3022	1781
8.267		2441	3676
8.3		2097	650
8.323		3146	1129
8.391		2874	1533
8.434		2323	1486
8.457		1644	703
8.498		2084	2677
8.552		2491	2512
8.595		1902	430
8.647		1296	1372
8.669		3108	1207

LANCASTER LABORATORIES

Sample Number: AR5411224A AAAR541AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 2:49:53 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0016.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.508		10354	4615
2.551		19738	15056
2.567		40523	38628
2.633		25603	37987
2.67		21920	10635
2.699		36259	43106
2.728		33010	36525
2.778		12280	10552
2.803		212816	148738
2.844		22380	19348
2.874		33983	271649
2.942		79744	86877
2.978		126378	207111
3.033		37167	38078
3.066	TCX	15955890	11045080
3.109		24812	20400
3.152		33944	27073
3.195		319453	484418
3.222		37783	29561
3.265		34786	48095
3.294		240165	190216
3.325		30106	15778
3.358		71842	65467
3.405		20407	20845
3.419		34434	12051
3.447		67369	175473
3.511		69938	54295
3.537		67454	60668
3.573		97854	88798
3.589		50855	25359
3.619		11970	3348
3.633		33323	18433
3.652		20519	7711
3.669		17608	7285
3.686		22600	7245
3.706		115923	92044
3.729		56191	41250
3.753		113392	93917
3.787		136084	139559
3.834		57884	83029
3.86		118106	59600
3.873		88124	54962
3.897		39589	19681
3.911		82745	102045
3.959		23624	18059
3.968		18702	4759
3.995		112764	113752
4.028		3216224	2404270
4.055		985865	726421
4.08		124946	100385
4.118		36783	37824
4.173		993162	742885
4.206		261759	254998
4.229		107774	66849

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RT B	Compound B	Height B	Area B
4.245		156241	87458
4.282		912982	854188
4.333		269273	352855
4.374		144997	151437
4.406		713326	481637
4.431		7645597	5954035
4.459		831969	652499
4.485		288574	188718
4.5		950115	661914
4.541		6808403	5959970
4.579		2857018	2385131
4.607		1718444	1495752
4.67		602337	563792
4.71		3105967	3079406
4.775		5774056	6098857
4.815		1271443	967948
4.844		9460523	8740321
4.887		880786	1064326
4.946		3764786	4870164
4.986		771933	682847
5.022		6819012	5757942
5.048		704628	583837
5.093		3928367	3933380
5.13		277380	222041
5.211		4117729	4059918
5.268		4942032	4652803
5.306		1288404	1206439
5.349		7188321	8415432
5.402		534839	382674
5.421		104635	52641
5.47		17825	13328
5.492		102152	93382
5.539		419550	423374
5.581		388047	318097
5.609		2249797	2034828
5.656		295483	277203
5.693		217933	177207
5.713		45539	26634
5.75		898313	677137
5.768		495051	308162
5.791		191265	120807
5.819		53206	75516
5.885		403364	570784
5.976		329059	458301
6.009		35345	28034
6.031		965102	4036699
6.233		366034	1633868
6.317		62822	127250
6.359		29766	41247
6.411		61815	107082
6.496		12394	13010
6.555		31874	24834
6.615		69312	76617
6.68		14781	26466
6.785	DCB	7493537	7679440
6.857		15908	13460
6.909		9856	2691
6.93		6782	2774
7.022		6903	2336
7.107		16813	25003
7.157		21599	27235
7.244		221232	270129
7.325		91140	163415
7.401		28172	36086
7.447		7484	3704
7.467		10592	4257

RT B	Compound B	Height B	Area B
7.485		8318	6491
7.495		10221	3797
7.517		91602	133946
7.704		9573	5943
7.741		6752	6763
7.755		8880	3759
7.773		9624	4709
7.815		9323	3825
7.838		9820	5243
7.886		6893	6313
7.907		8443	2555
7.947		8078	5261
7.974		8608	4465
8.004		10799	3244
8.063		6762	2238
8.083		11891	8490
8.112		8179	3689
8.145		11129	6894
8.192		9299	3385
8.209		17202	24329
8.278		6236	4717
8.326		10584	7742
8.439		14503	38321
8.527		13402	12848
8.556		8438	3134
8.58		9938	4444
8.618		15770	18561
8.658		10788	4265

AR5411224A AAAR541AA ICAL 1220399999

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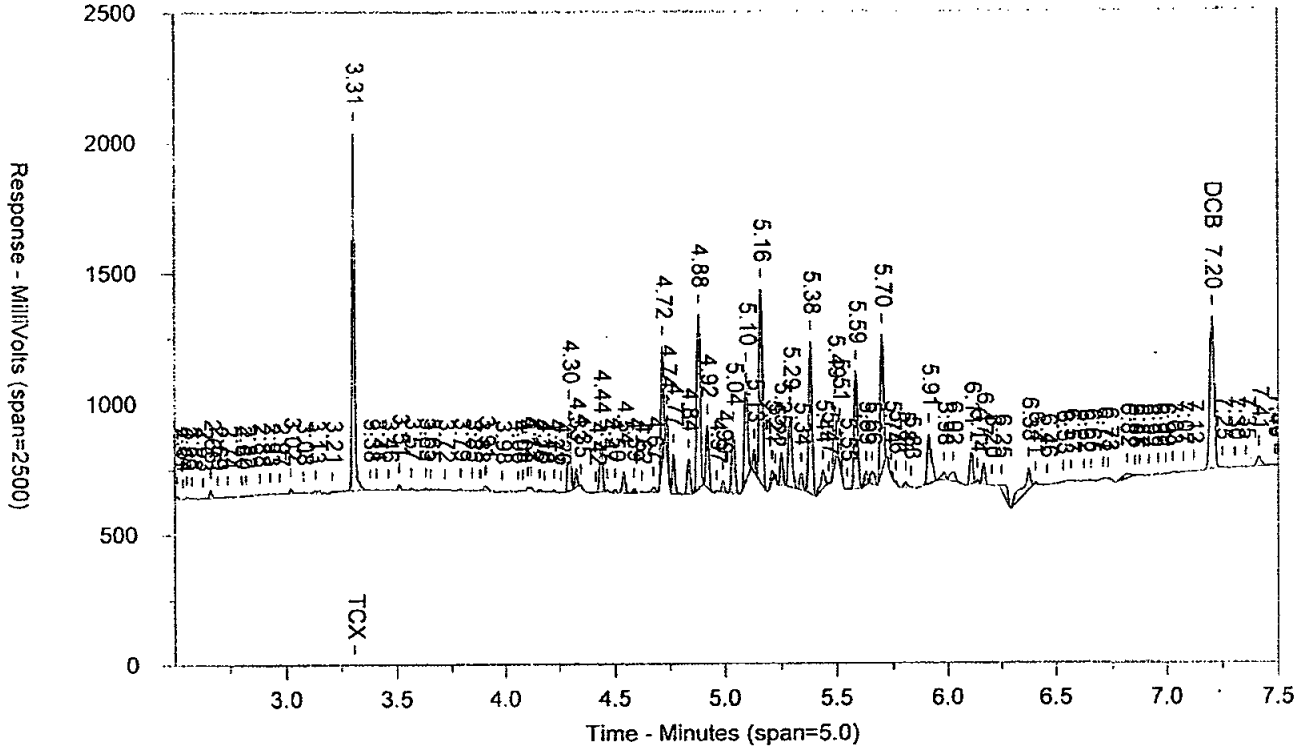

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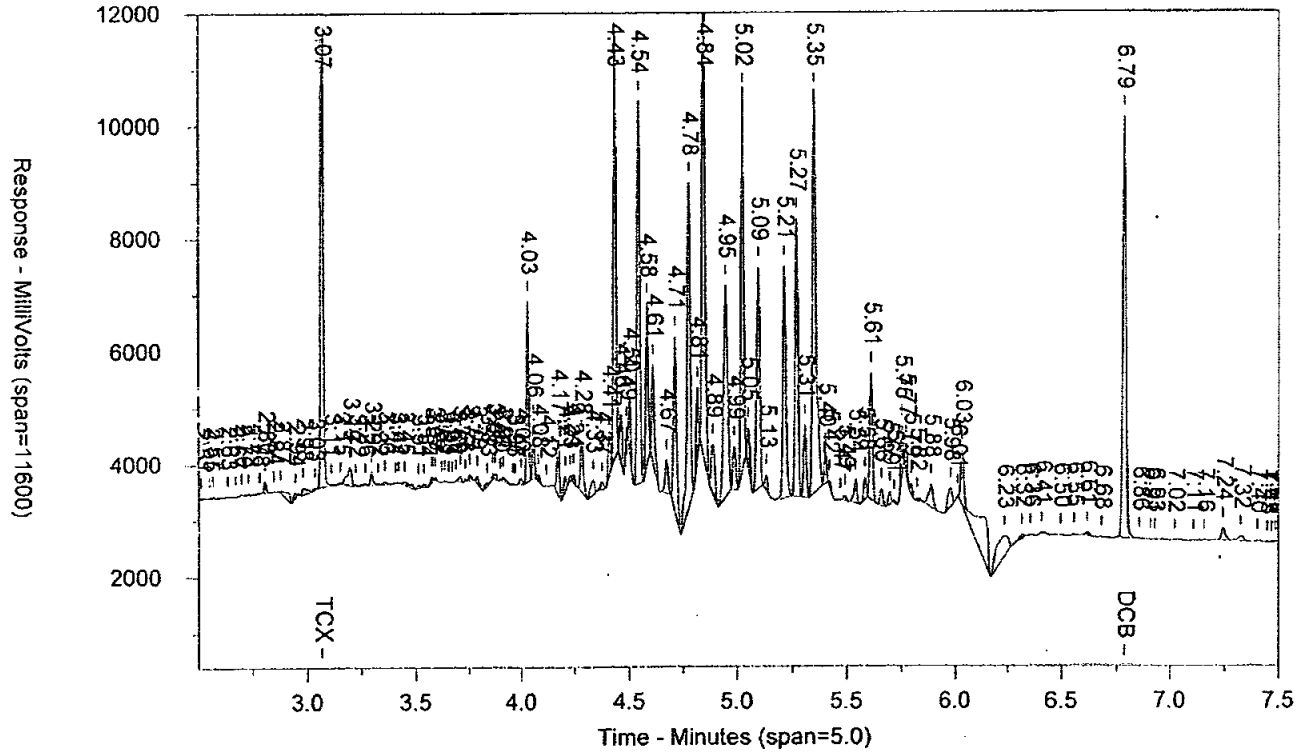

ASX73 1705

LANCASTER LABORATORIES

Sample Number: AR5411224A AAAR541AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 2:49:53 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	1371881	5.391	TCX	3.066	15955890	4.422	TCX
7.203	585844	5.825	DCB	6.785	7493537	4.169	DCB

Files:
Area File: 1p20205.0016.RAW
Area File: 1p20205B.0016.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 2:58:37 PM
File Reported On: 7/23/2012 at 4:38:32 PM

ASX73 1786

AR5411224A AAAR541AA ICAL 1220399999

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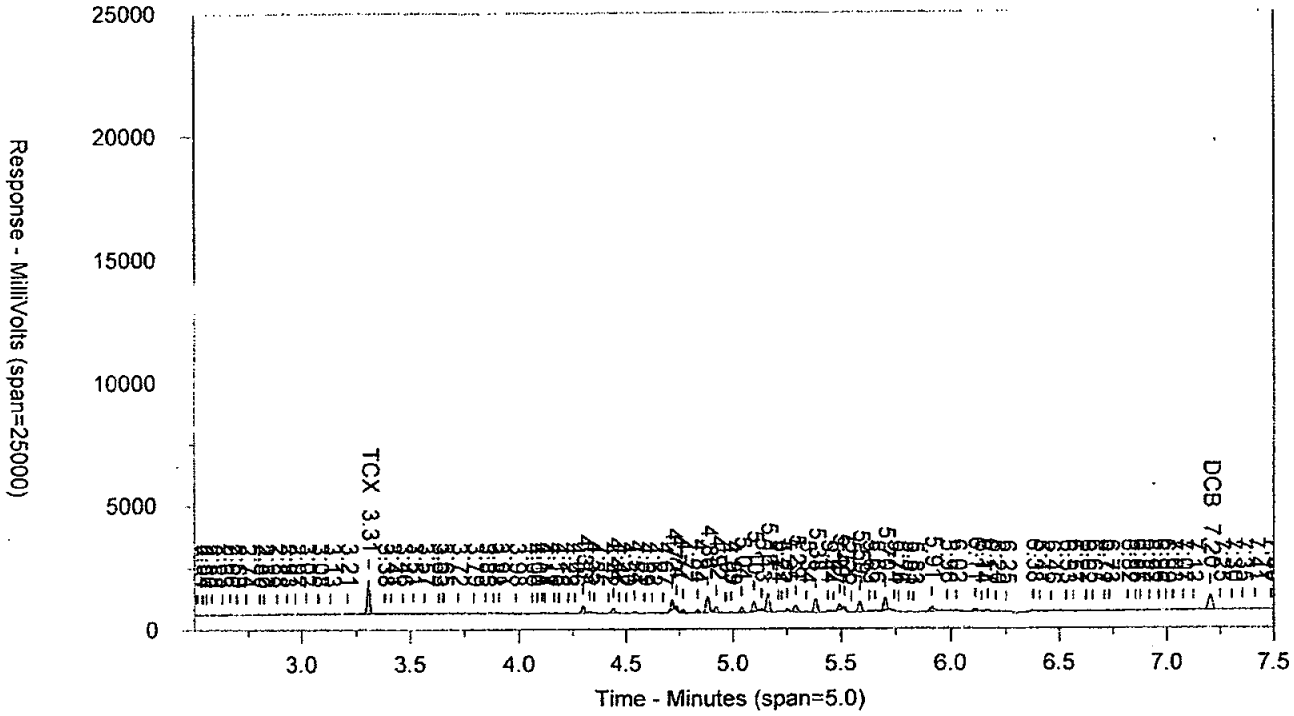

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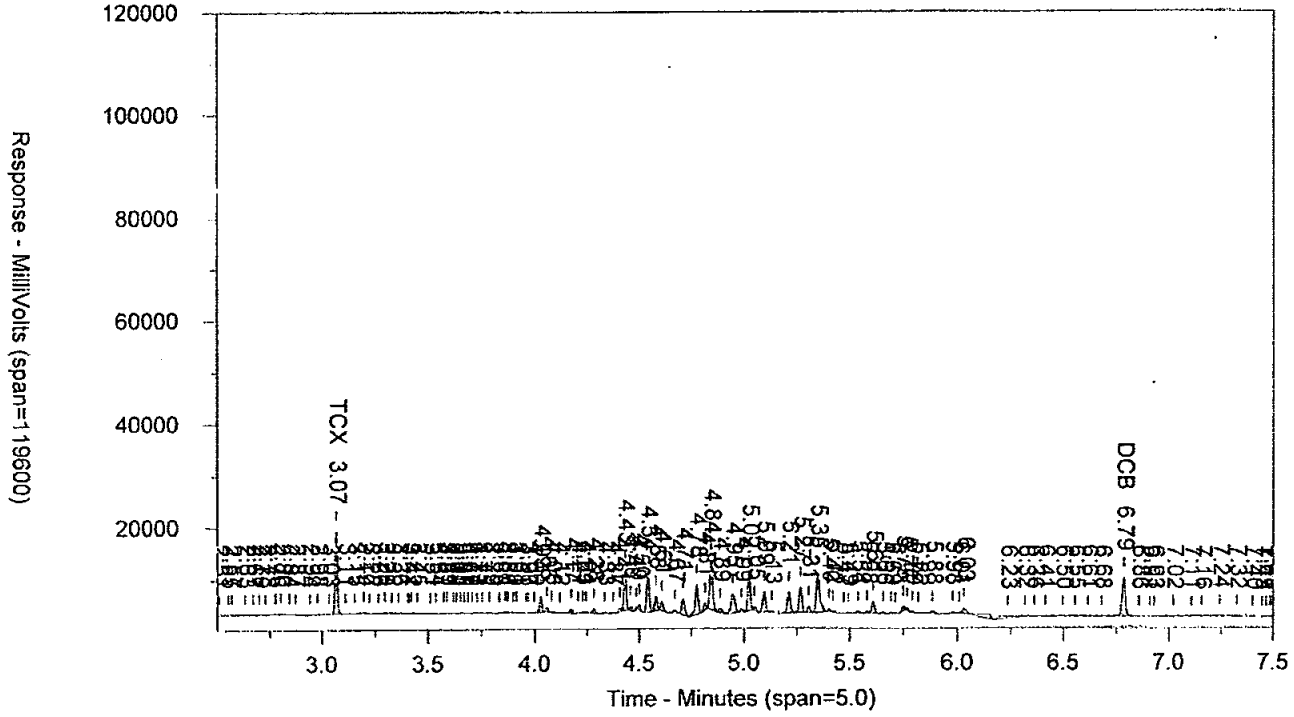

ASX73 1787

LANCASTER LABORATORIES

Sample Number: AR5421224A AAAR542AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:01:17 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0017.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.512		28022	18375
2.556		18630	14493
2.577		37053	33503
2.65		3468	5658
2.664		46401	36775
2.693		16493	17336
2.741		3916	4749
2.811		1336	800
2.879		5883	7637
2.931		8213	13394
3.021		78244	59230
3.077		4195	3766
3.098		2247	1576
3.135		5725	4110
3.154		3997	7219
3.213		11511	19784
3.254		2123	676
3.307	TCX	5802158	4421274
3.372		4822	5052
3.41		4214	4186
3.463		4252	5631
3.513		108878	77937
3.566		13384	9816
3.631		13275	9611
3.65		18772	12140
3.689		2277	1958
3.732		3428	7555
3.79		15702	13174
3.811		5215	2968
3.847		7026	6386
3.886		1302	1224
3.914		14961	19219
3.939		5281	4083
3.983		20031	21139
4.059		5768	3841
4.081		3804	1695
4.105		17788	10609
4.12		15477	12312
4.16		17390	21112
4.226		18082	18160
4.297		553042	493751
4.328		131707	101297
4.346		18309	15369
4.438		350371	321034
4.466		19398	14188
4.5		31074	25801
4.538		152587	147186
4.584		33267	30230
4.615		4905	4112
4.673		42109	44568
4.715		723698	621633
4.735		258172	173926
4.766		266633	240701
4.835		250719	247075

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RT A	Compound A	Height A	Area A
4.882		1181187	1295968
4.921		446110	421830
4.966		16449	12668
4.992		83542	74898
5.039		415707	439839
5.094		740341	740372
5.128		146837	107853
5.16		1324569	1342221
5.208		84104	68339
5.223		26440	15605
5.25		226545	201391
5.289		488229	559450
5.339		121113	115696
5.383		1029700	1115111
5.439		127338	147174
5.466		9748	4868
5.491		413175	352313
5.512		244212	185710
5.544		12354	9578
5.586		852363	869085
5.629		97152	80884
5.661		94698	126298
5.702		911643	931159
5.724		54153	23648
5.743		33937	20053
5.763		17444	11381
5.807		42907	37598
5.828		6636	4050
5.884		2431	2993
5.913		365996	494040
5.985		23892	17553
6.025		119224	279446
6.109		222389	214594
6.135		27959	18994
6.166		160643	154526
6.205		5992	5530
6.376		141949	270150
6.407		19932	20677
6.482		1988	1217
6.532		1498	3404
6.566		25644	33683
6.625		7433	6530
6.653		9222	10306
6.709		7046	14202
6.815		16944	46508
6.862		2478	5122
6.932		1965	1146
6.99		2105	625
7.027		24422	28611
7.082		1476	2380
7.118		2275	1882
7.201	DCB	2227446	3145435
7.334		2741	4699
7.409		85121	131365
7.501		1803	823
7.566		7882	17048
7.649		13440	23536
7.756		2200	2956
7.771		2794	716
7.792		1749	932
7.868		1876	2355
7.895		2592	1138
7.978		2617	4388
8.031		2874	745
8.089		3001	2119
8.201		2109	1041

ASX73 1789

RT A	Compound A	Height A	Area A
8.227		1882	842
8.258		6330	16759
8.457		2226	3014
8.484		2398	1238
8.515		2681	1556
8.557		5407	9121
8.606		3280	845
8.62		2453	1337
8.642		2501	504
8.67		1894	889

ASX73 1718

LANCASTER LABORATORIES

Sample Number: AR5421224A AAAR542AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:01:17 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0017.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.506		13064	4778
2.527		25582	13289
2.548		23321	12436
2.57		82166	84155
2.632		33998	30138
2.656		19200	13884
2.678		16715	4219
2.707		49600	70521
2.732		34121	24360
2.755		21179	14307
2.804		732548	587689
2.865		20767	23764
2.899		92549	169594
2.942		174366	234559
2.979		131348	213347
3.033		36774	30719
3.067	TCX	81724250	56972890
3.197		278125	334226
3.222		29410	16746
3.237		14329	3841
3.26		38611	35396
3.294		1035405	798356
3.358		131132	150828
3.416		138822	87834
3.443		75480	78602
3.477		35466	34836
3.51		63958	52791
3.537		74176	67781
3.574		161046	114996
3.588		65916	34840
3.633		40994	35748
3.653		33761	11182
3.69		10663	16326
3.705		175513	130772
3.729		68233	43307
3.751		121227	79276
3.772		119258	59694
3.787		99283	90910
3.838		20952	52171
3.861		198356	117616
3.873		166076	86024
3.896		86711	48000
3.91		116718	98328
3.956		29715	17851
3.995		210619	190756
4.027		5989949	4535190
4.056		1713804	1272066
4.079		251549	166920
4.117		15749	8117
4.138		40281	35810
4.173		1903646	1431941
4.205		362544	271966
4.229		203007	126965
4.245		366197	218570

ASX73 1731

RT B	Compound B	Height B	Area B
4.282		1682603	1477157
4.332		412660	481769
4.372		290564	273856
4.406		1258056	885222
4.431		14749930	11561740
4.459		1574974	1142192
4.485		387181	290937
4.499		1810369	1201065
4.54		13256330	11389360
4.578		5426153	4548104
4.606		3679903	3049159
4.669		1163769	1120737
4.709		5569878	5457051
4.775		11359200	11051100
4.814		2437667	1841960
4.843		19105650	17290680
4.885		1560246	1803321
4.946		7298202	9078340
4.985		1388427	1242635
5.021		12999690	11338370
5.048		1274333	1039540
5.093		8049936	7567808
5.129		582851	481834
5.211		8055121	7922148
5.267		9918590	9130987
5.307		2259171	2178450
5.349		14376880	16408850
5.401		1026960	737141
5.42		252814	155971
5.466		23702	10731
5.49		207946	192858
5.538		812891	860880
5.58		778460	623875
5.609		4195579	3881885
5.656		572136	518740
5.693		398495	304117
5.713		114024	63639
5.75		1747427	1307514
5.767		841719	505085
5.791		525819	342717
5.837		43673	34939
5.885		368654	562056
5.975		917388	1296962
6.01		78964	88246
6.032		1636129	1630409
6.196		196762	250348
6.229		75772	65835
6.247		51746	51519
6.313		137397	431182
6.412		112284	180289
6.555		39933	60465
6.617		272835	296709
6.652		14391	5191
6.677		15707	16354
6.784	DCB	36053820	36295340
6.856		30948	40308
6.9		10414	12747
6.944		15548	23505
7.115		22668	38428
7.16		50761	66357
7.216		10565	1963
7.244		579274	706964
7.327		100477	182072
7.407		41979	73338
7.447		9195	4748
7.473		6151	3269

ASX73 1712

RT B	Compound B	Height B	Area B
7.517		82457	128966
7.579		14682	19371
7.719		7510	2739
7.768		48962	77156
7.815		6228	1811
7.836		8674	3358
7.909		8725	8529
7.961		28796	52656
8.028		63192	93634
8.101		17035	23949
8.166		14508	17095
8.204		53775	94767
8.259		8629	3741
8.298		7338	4870
8.35		14074	15264
8.37		12005	7814
8.398		6442	4582
8.428		34680	70225
8.522		7577	9419
8.557		4143	3535
8.626		13506	31080

AR5421224A AAAR542AA ICAL 1220399999

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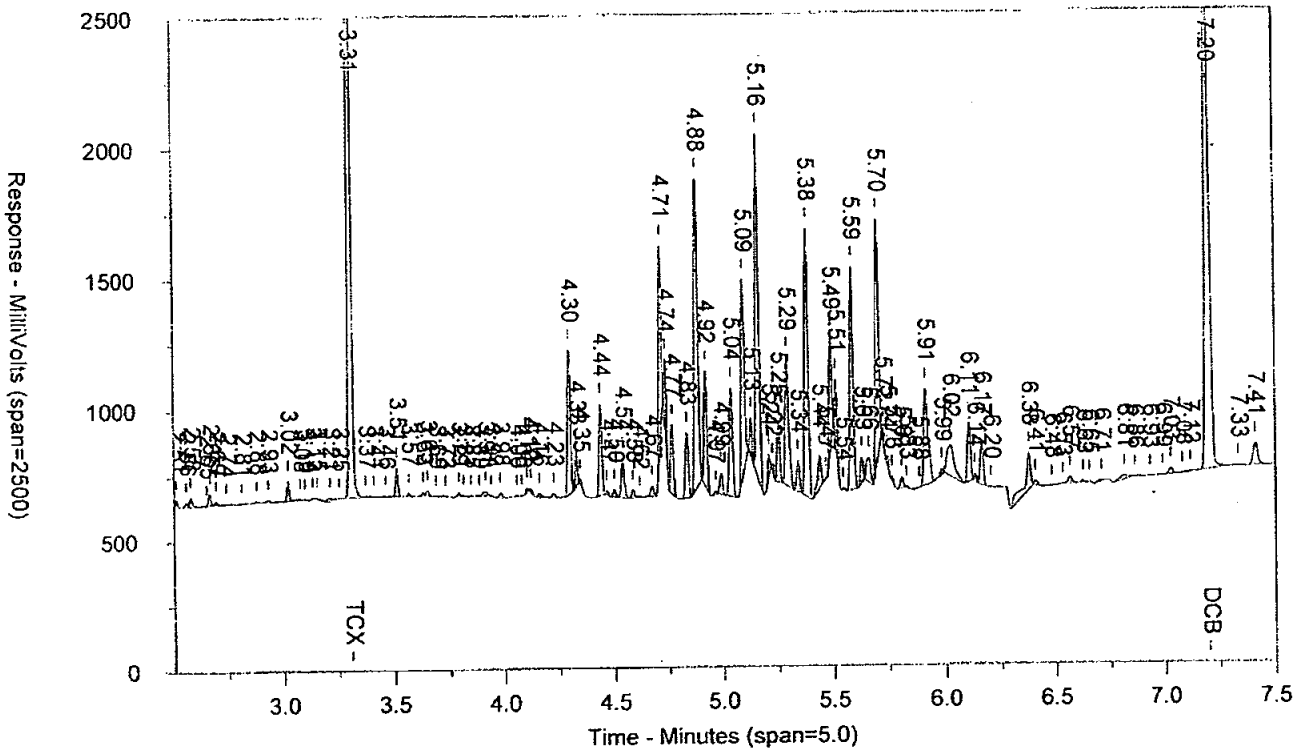

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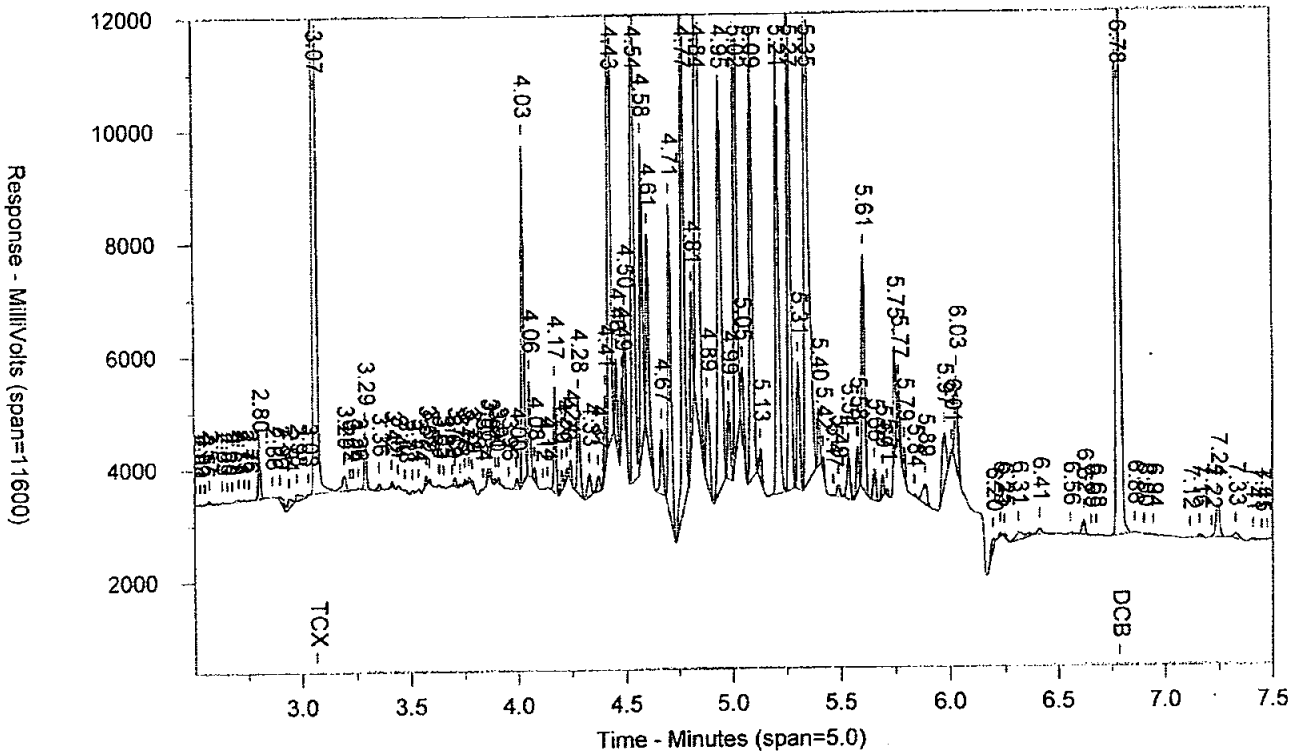

ASX73 1714

LANCASTER LABORATORIES

Sample Number: AR5421224A AAAR542AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 3:01:17 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	5802158	22.801	TCX	3.067	81724250	22.647	TCX
7.201	2227446	22.149	DCB	6.784	36053820	20.057	DCB

Files:
Area File: 1p20205.0017.RAW
Area File: 1p20205B.0017.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 3:10:01 PM
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ASX73 1715

AR5421224A AAAR542AA ICAL 1220399999

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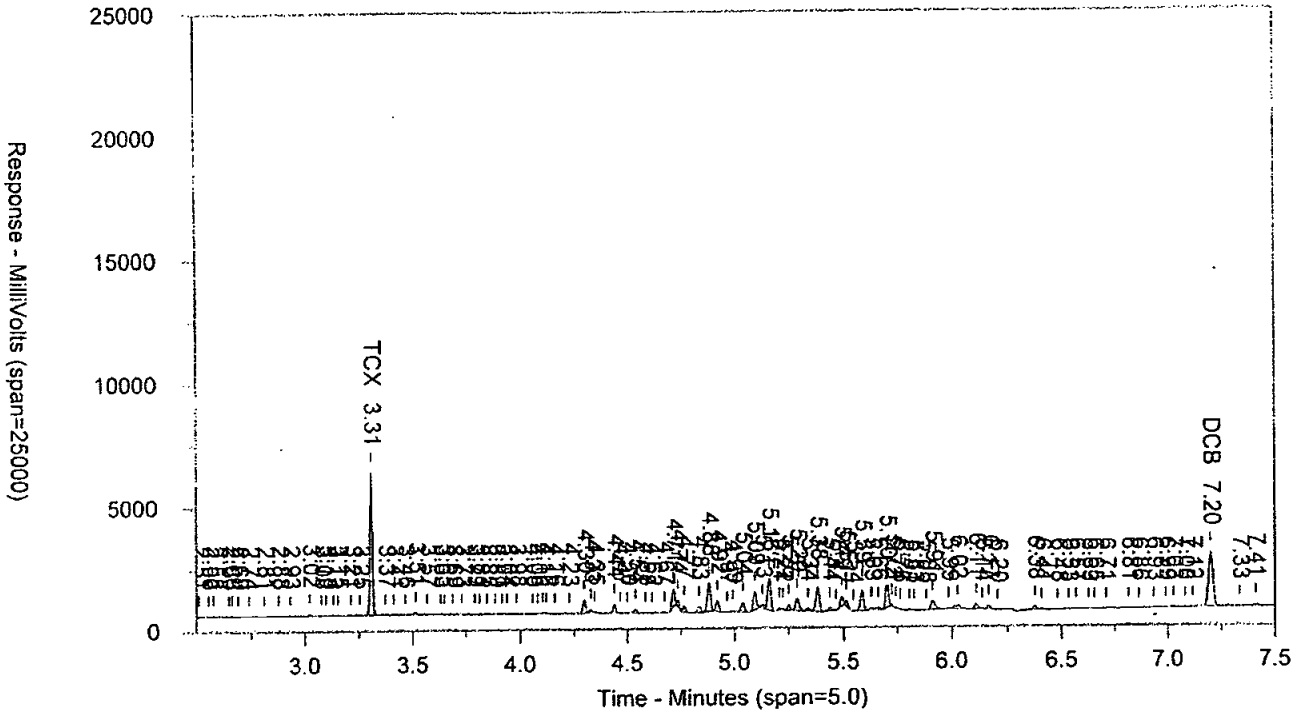

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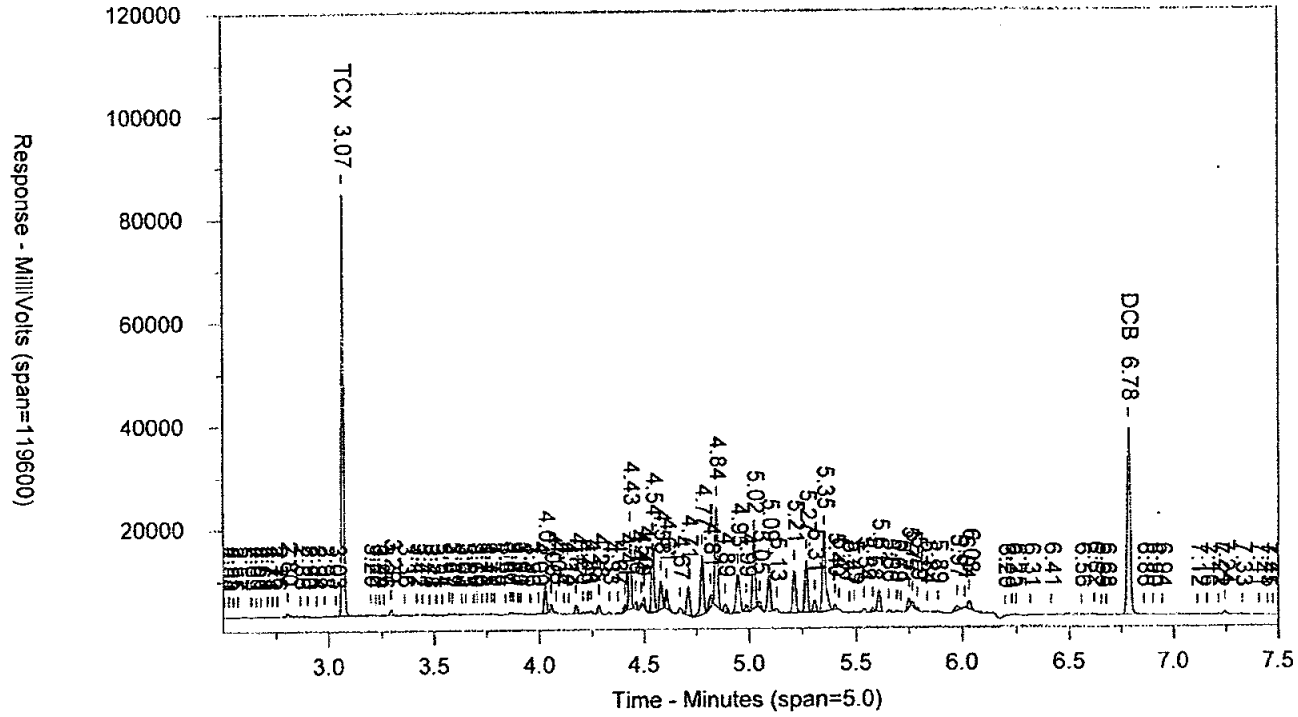

ASX73 1716

LANCASTER LABORATORIES

Sample Number: AR5431224A AAAR543AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:12:41 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0018.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.512		9997	6575
2.556		5625	4241
2.578		68559	52892
2.616		2490	1322
2.665		24107	18258
2.692		26881	22657
2.733		1205	936
2.756		2667	3354
2.818		1921	873
2.837		1785	1108
2.867		3451	1809
2.887		2644	1620
2.931		4418	7268
2.997		1815	687
3.024		9707	13683
3.081		6564	6864
3.134		7536	14921
3.204		4830	4271
3.238		2000	602
3.307	TCX	10945600	8097010
3.375		4359	3476
3.407		5121	3036
3.454		4982	6494
3.514		200164	147956
3.567		28728	21370
3.634		2981	2340
3.651		42387	32404
3.75		2041	1652
3.791		33462	22817
3.811		13477	7909
3.844		8968	9513
3.883		2650	2396
3.918		33077	39632
3.984		33872	30483
4.035		6689	5042
4.058		4913	2922
4.081		6314	4178
4.106		38351	26097
4.12		32536	25747
4.161		40762	37910
4.227		41645	40187
4.271		4938	4316
4.298		1166803	1030064
4.329		327310	267346
4.354		31123	20329
4.439		744498	692206
4.467		52578	35868
4.5		73405	62426
4.539		333240	327008
4.586		73992	64393
4.618		9855	8486
4.675		77827	77515
4.715		1448650	1241999
4.736		596174	398601

(3) JM 2855
2 3 Analyte

ASX73 1717

RT A	Compound A	Height A	Area A
4.765		532185	492994
4.836		541583	541366
4.882		2411824	2704309
4.922		910178	891044
4.966		41892	32499
4.992		183739	170929
5.039		865648	928038
5.095		1514182	1551118
5.129		354431	258421
5.161		2916546	2866662
5.209		177777	143618
5.224		59925	31679
5.251		458536	424192
5.29		1014521	1165893
5.34		259318	254790
5.383		2183224	2313252
5.417		31051	19700
5.439		234465	206738
5.467		18829	11057
5.492		859095	738630
5.514		531557	395255
5.546		32326	25623
5.587		1816948	1881650
5.629		214522	172931
5.657		196240	269930
5.702		2026084	1972737
5.724		72964	35286
5.743		72027	40639
5.763		38125	25679
5.807		92389	85429
5.83		15602	10223
5.882		7684	5614
5.914		786771	1082771
5.987		98398	112758
6.028		94635	105975
6.069		10948	9387
6.11		497055	486379
6.136		65149	41802
6.165		338617	338452
6.204		12017	12697
6.376		304306	405668
6.407		45605	45278
6.479		2248	1666
6.527		2360	2077
6.566		47417	60877
6.623		16900	17939
6.651		7194	5962
6.714		5048	7271
6.775		1553	1001
6.811		20185	31792
6.885		4011	4804
6.931		1117	1047
6.948		2864	2444
6.976		1587	845
7.027		42430	50392
7.069		2715	1122
7.094		1874	766
7.123		1514	1337
7.201	DCB	4111482	5610029
7.369		1309	597
7.413		21446	33416
7.472		2614	1763
7.566		8048	19301
7.605		5669	4961
7.647		13510	28268
7.742		2062	560

ASX73 1718

RT A	Compound A	Height A	Area A
7.757		2779	1382
7.777		2557	2611
7.842		2622	1753
7.903		1998	1412
7.954		1627	1770
7.985		2547	1061
8.03		2077	1261
8.055		2693	1485
8.087		2101	789
8.139		2739	5202
8.204		2413	1641
8.221		2104	812
8.256		10889	25596
8.341		2044	1313
8.382		1905	1293
8.436		1441	1199
8.468		1906	569
8.5		5031	6967
8.557		8741	17890
8.629		2169	1404

LANCASTER LABORATORIES

Sample Number: AR5431224A AAAR543AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:12:41 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0018.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.503		10839	1584
2.551		14116	8402
2.571		30642	34689
2.601		21501	7778
2.626		30828	40735
2.67		23749	15580
2.699		27155	31789
2.718		26689	10577
2.734		40909	43311
2.775		3619	1737
2.783		14368	3702
2.804		81427	59107
2.824		20409	7996
2.88		54755	170614
2.941		74729	87646
2.978		100929	150743
3.036		55257	54266
3.068	TCX	154927500	108499300
3.16		11701	2339
3.175		14582	7432
3.197		141771	116874
3.238		61466	77444
3.271		45047	42759
3.294		1888407	1410713
3.36		291708	232417
3.417		454148	347174
3.446		48260	51827
3.477		74379	62877
3.512		68548	52507
3.539		62397	61215
3.574		289431	180376
3.588		97411	50515
3.636		36620	26409
3.654		71353	51907
3.678		24096	10469
3.705		362139	282389
3.728		30031	19469
3.753		101106	62268
3.773		211470	121038
3.787		172196	123023
3.835		58359	97289
3.861		436055	254074
3.874		361204	181423
3.896		202549	99965
3.911		251534	161949
3.961		17455	9657
3.997		449642	363742
4.028		14006130	10523860
4.056		4009018	2842372
4.078		453958	280567
4.114		20371	9229
4.138		26210	23351
4.176		7637792	6022165
4.206		635229	415064

ASX73 1720

RT B	Compound B	Height B	Area B
4.229		807183	704518
4.283		3744858	3288279
4.333		848978	869902
4.373		681427	659510
4.406		3043721	2060878
4.431		37184390	28965460
4.46		3724972	2586215
4.485		1701623	946570
4.5		4373264	2934635
4.541		33110800	27597250
4.579		13465580	10947050
4.607		8676038	7440099
4.671		2460544	2198311
4.71		12257520	11255110
4.775		28286150	25337120
4.814		6303611	4621562
4.844		49622710	44413370
4.886		3532258	4045509
4.946		18092210	22079150
4.986		3331960	2934694
5.022		34098860	28995860
5.048		3077719	2491001
5.094		20000910	18134490
5.129		1306426	1070755
5.211		21206540	19572880
5.268		25554090	22780730
5.306		5400526	5005819
5.349		35953890	41674430
5.401		2454859	1775063
5.42		576675	352760
5.468		20502	16000
5.489		562310	510689
5.538		1902291	1997463
5.58		1746253	1426567
5.609		10564030	9524813
5.657		1180477	1093048
5.692		930190	727994
5.713		285072	173720
5.75		4455359	3287507
5.767		2280474	1411463
5.791		825607	543071
5.838		86832	84658
5.884		462727	805292
5.984		438321	813006
6.032		4243507	4315397
6.129		534477	1470582
6.194		435910	476005
6.228		178830	169588
6.263		41563	53262
6.313		123448	141473
6.344		17477	6352
6.382		10815	3956
6.409		210001	276710
6.554		34955	44463
6.616		531074	535899
6.671		21824	23313
6.784	DCB	70526690	72010760
6.902		18157	160400
7.099		17404	30719
7.161		86691	98350
7.219		15277	12429
7.243		143171	159461
7.327		84953	125593
7.402		17467	20912
7.515		89587	129271
7.565		9039	5343

RT B	Compound B	Height B	Area B
7.586		6409	2436
7.674		8054	3767
7.769		84790	135784
7.821		7535	5816
7.876		8114	2141
7.929		6419	5175
7.952		54647	87281
8.029		102298	163921
8.09		12703	10126
8.133		8979	9627
8.146		13227	12160
8.213		24978	49967
8.297		10287	14436
8.342		11067	5582
8.359		12768	9648
8.435		33020	101938
8.499		9074	3900
8.528		12492	18907
8.579		9652	11510
8.603		9824	9314
8.634		7912	2686
8.649		13184	4470
8.673		7788	4943

AR5431224A AAAR543AA ICAL 1220399999

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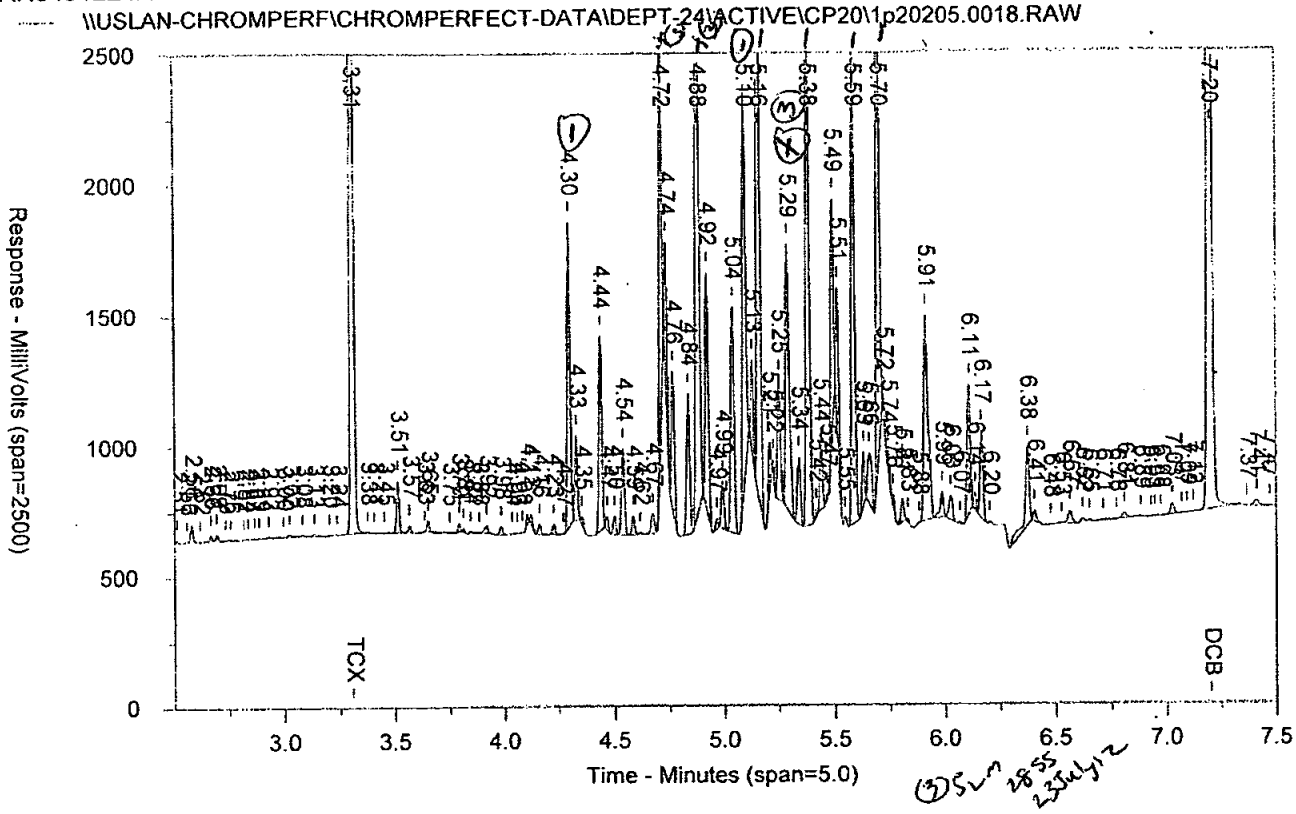

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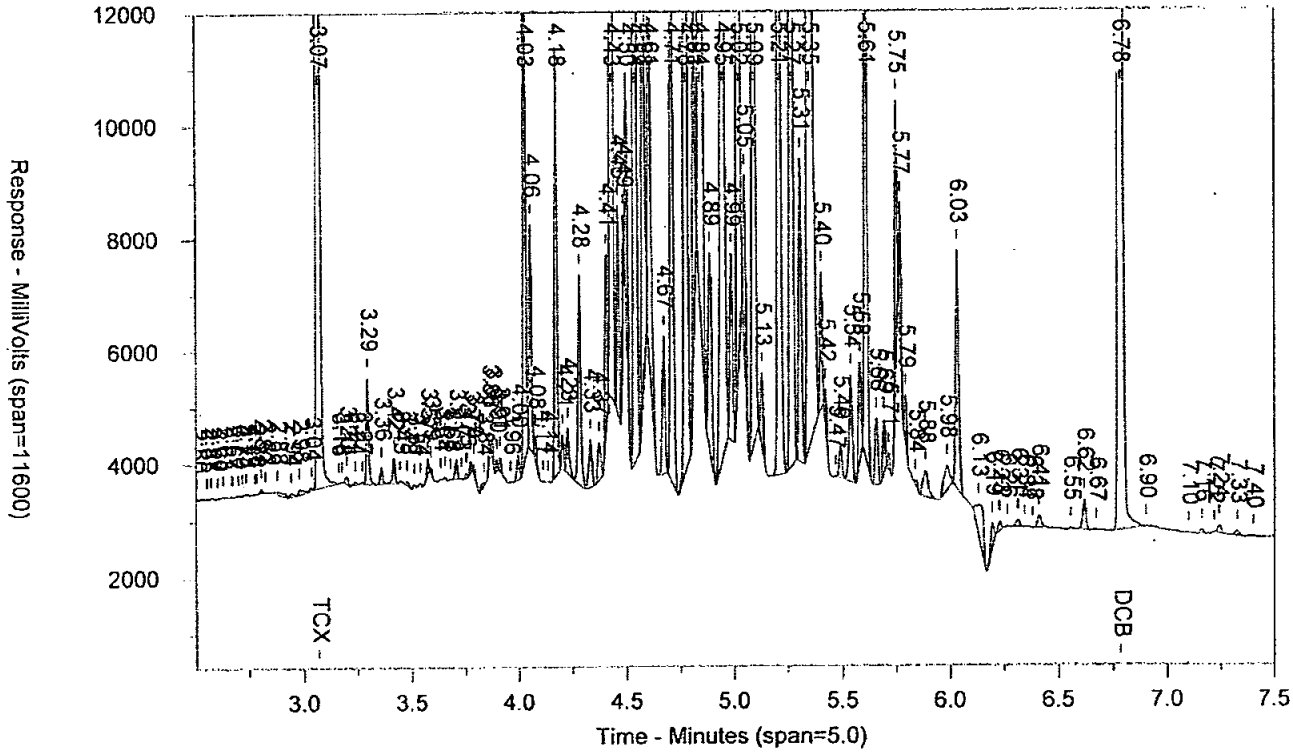

MSX73 1723

LANCASTER LABORATORIES

Sample Number: AR5431224A AAAR543AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 3:12:41 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	10945600	43.013	TCX	3.068	154927500	42.933	TCX
7.201	4111482	40.883	DCB	6.784	70526690	39.235	DCB

Files:
Area File: 1p20205.0018.RAW
Area File: 1p20205B.0018.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 3:21:25 PM
File Reported On: 7/23/2012 at 4:38:44 PM

ASX73 1724

AR5431224A AAAR543AA ICAL 1220399999

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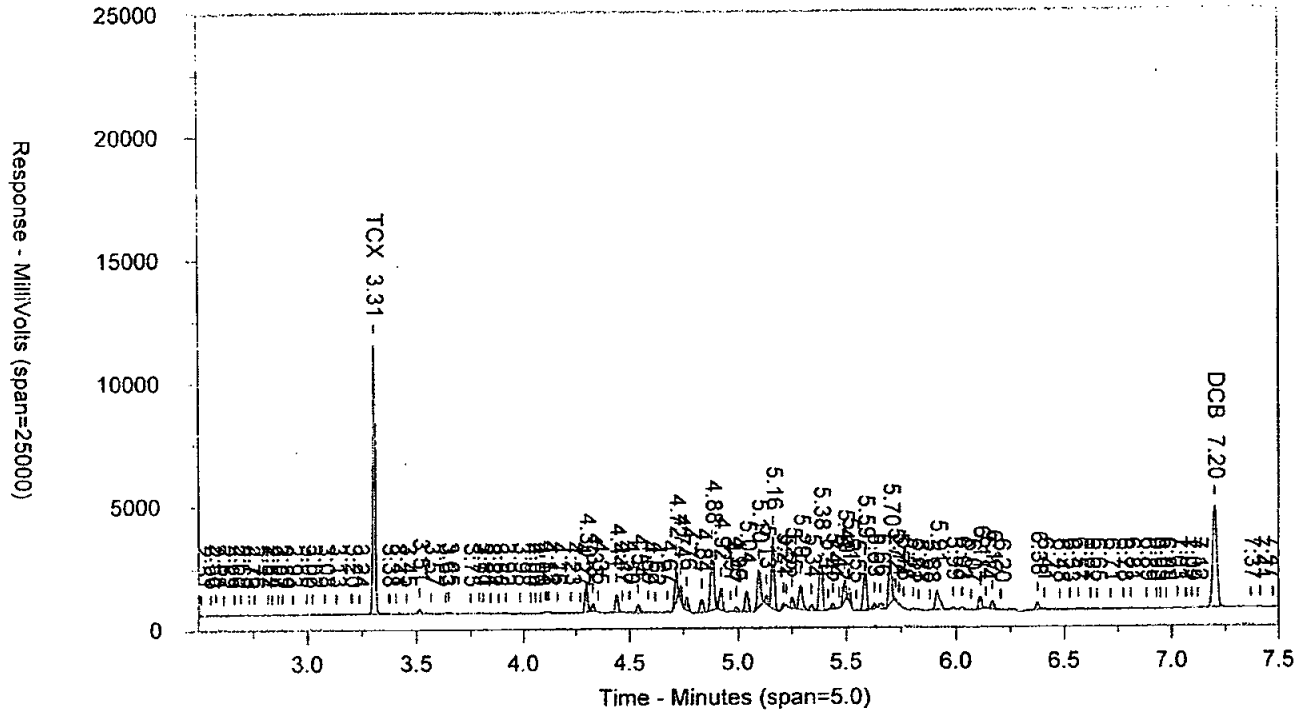

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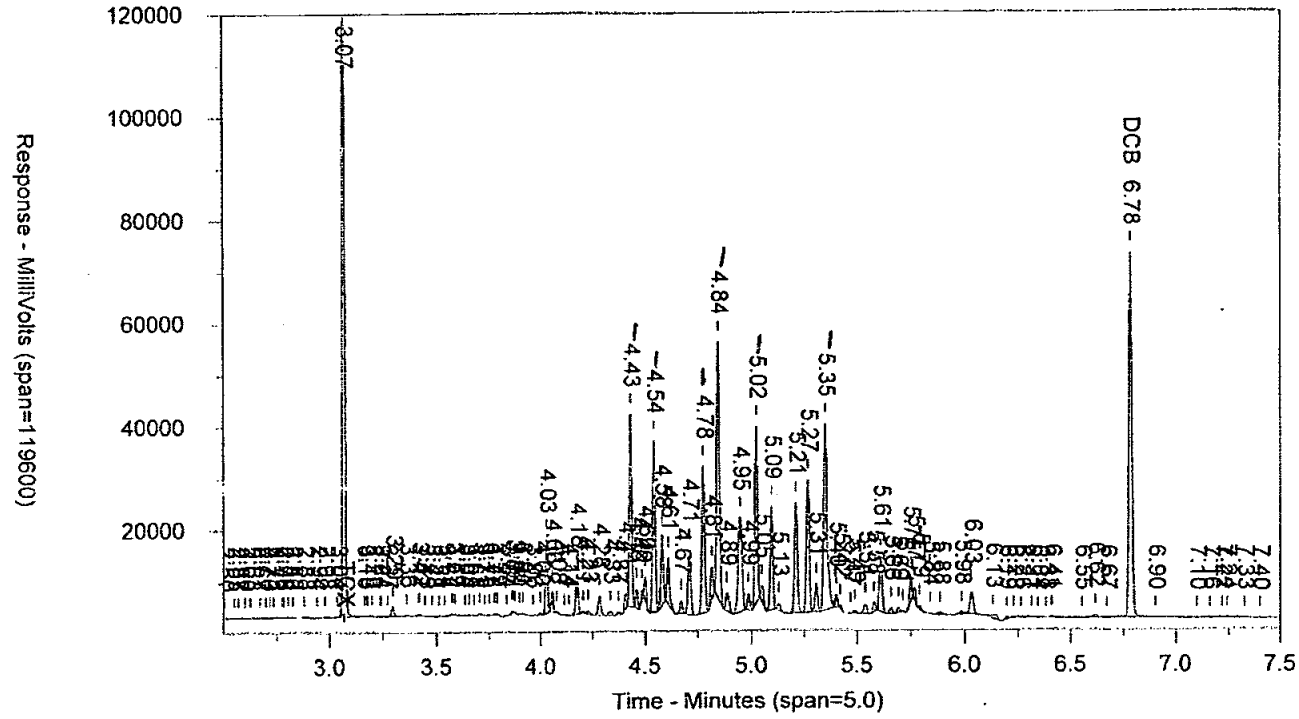

ASX73 1725

LANCASTER LABORATORIES

Sample Number: AR5441224A AAAR544AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:24:11 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0019.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.513		13399	10297
2.556		3869	1887
2.577		104615	80898
2.648		1768	1899
2.664		83897	62891
2.691		39964	31056
2.77		1565	571
2.819		2284	1306
2.84		1717	964
2.888		3167	6037
2.931		9436	9888
2.975		5526	9970
3.024		3082	3015
3.055		1858	759
3.101		2958	2613
3.137		6610	4878
3.153		6289	16784
3.204		9476	8619
3.227		3357	2914
3.307	TCX	15882860	12019510
3.376		3018	1998
3.405		7070	5395
3.459		7888	9277
3.514		288501	216060
3.543		2533	960
3.567		52839	37947
3.651		59847	45313
3.69		2774	2547
3.734		4505	5392
3.791		61027	42538
3.809		24212	14316
3.848		11944	11471
3.883		6704	5312
3.918		69310	65686
3.984		55289	48230
4.039		13238	8943
4.056		6622	3677
4.079		7577	4520
4.105		77591	50960
4.12		62131	50743
4.16		76523	77173
4.226		87295	77445
4.272		5505	2772
4.298		2113997	1859078
4.329		579327	481224
4.353		63834	42059
4.438		1356463	1255658
4.466		96929	67651
4.5		134257	117630
4.539		622360	601303
4.585		138444	124680
4.617		20149	18384
4.674		138707	134422
4.715		2627237	2211735

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RT A	Compound A	Height A	Area A
4.735		1008933	678739
4.765		957384	878181
4.835		975784	977613
4.882		4549738	4952429
4.921		1616855	1594660
4.966		75876	59721
4.992		337074	310270
5.038		1560688	1673980
5.094		2821711	2881659
5.128		626702	463593
5.16		5414019	5323962
5.208		509331	724116
5.25		824587	768935
5.289		1762989	2090133
5.339		483144	472969
5.382		4107004	4291965
5.418		23932	20127
5.438		421652	371033
5.466		42960	27426
5.491		1562629	1304804
5.512		858180	662008
5.545		60389	47588
5.585		3417749	3499834
5.629		362835	310153
5.656		355211	485587
5.702		3976923	4564792
5.743		134732	83185
5.763		72808	47724
5.807		168297	156336
5.829		26469	16720
5.88		15963	11648
5.912		1387242	1987702
5.962		11624	6290
5.987		146471	122401
6.027		195704	232805
6.067		15709	11310
6.107		911795	889495
6.135		116831	78945
6.164		641819	622342
6.2		25804	27669
6.257		38005	92477
6.376		524770	614124
6.405		80590	80283
6.478		2978	2958
6.531		1367	1809
6.565		68422	82251
6.62		31147	30780
6.651		13706	11177
6.745		2475	9550
6.807		33919	41345
6.851		2584	2249
6.962		2127	4369
7.025		60887	76405
7.075		2551	2499
7.129		2128	1870
7.199	DCB	6013731	7891717
7.297		2623	565
7.34		2331	3309
7.408		71323	107581
7.507		1967	3426
7.533		2312	1444
7.559		5512	5502
7.604		8162	9450
7.646		8226	10686
7.78		4956	8406
7.852		4091	2594

RT A	Compound A	Height A	Area A
7.912		1717	971
7.927		2451	1023
7.97		2850	1664
8.065		2752	1465
8.084		3418	4812
8.126		1737	1113
8.191		2413	1800
8.219		2129	1458
8.254		13498	28509
8.339		2668	2014
8.353		2170	889
8.399		1701	647
8.43		2989	1840
8.484		6792	11177
8.531		1707	636
8.556		10438	17158
8.67		6501	11182

LANCASTER LABORATORIES

Sample Number: AR5441224A AAAR544AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:24:11 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0019.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.505		11351	1237
2.52		18400	9075
2.549		21083	15694
2.569		103470	111589
2.62		55367	52113
2.636		66316	87650
2.673		42223	16120
2.701		59626	99285
2.729		55781	104814
2.782		27595	28622
2.808		31146	24702
2.819		24385	10312
2.844		16628	6751
2.865		68407	759334
2.942		107510	144065
2.978		159228	209937
3.031		43274	30477
3.068	TCX	224124800	164195900
3.147		106569	65266
3.18		7876	7015
3.194		241809	202221
3.239		133458	201230
3.275		16491	10445
3.294		2845302	2130504
3.359		539842	380067
3.417		689353	494930
3.445		45098	46197
3.478		117525	102204
3.511		67472	52071
3.537		65121	58543
3.573		562291	330266
3.587		159008	77553
3.631		150816	119405
3.654		40814	21714
3.675		61289	43737
3.704		701693	574841
3.728		41576	25145
3.752		84790	52052
3.772		368359	200323
3.787		244366	121858
3.836		33982	49260
3.861		802875	484743
3.873		606639	302608
3.895		398770	210026
3.91		447153	278042
3.976		11468	3252
3.995		877677	684938
4.027		27946190	20881190
4.055		7806930	5501503
4.077		868141	503493
4.13		14662	3550
4.174		11030760	8913454
4.205		1249088	803193
4.228		1499381	1287587

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RT B	Compound B	Height B	Area B
4.282		7237550	6308364
4.332		1517491	1450785
4.373		1281255	1209280
4.405		6123888	4023275
4.43		71291310	57443000
4.46		7714418	5309424
4.486		1810898	1290995
4.498		9091594	5800767
4.54		64779880	55494380
4.578		27051950	22615720
4.606		18006450	15016640
4.67		5067388	4349413
4.709		26241330	23336090
4.775		57044490	53184080
4.814		13380370	9774703
4.843		98299860	89732860
4.886		6976826	7876903
4.946		37537200	45460230
4.985		6746500	5877563
5.021		70655170	60134440
5.047		6118883	5203291
5.093		42923130	38195560
5.129		2898288	2366457
5.211		43564320	40841840
5.267		57408010	50339880
5.306		11769440	10723000
5.349		77167170	89486180
5.401		5391184	3826288
5.42		1169748	661066
5.489		1127940	1026772
5.537		3687163	3928756
5.579		3469303	2817475
5.608		22732460	20125460
5.656		2637940	2375062
5.692		1766424	1367329
5.712		539252	308205
5.749		9809967	6963931
5.766		4371142	2580347
5.79		1645273	1056011
5.842		80909	63588
5.884		287592	348410
5.983		1002708	2067398
6.031		8475119	8608663
6.193		584141	641356
6.228		343584	294592
6.252		46273	62056
6.312		248313	281305
6.409		376806	422794
6.525		12304	4134
6.553		41564	68400
6.614		831986	849437
6.705		17853	19242
6.783	DCB	110964800	110127900
6.846		27370	20725
6.943		14173	14103
6.977		22989	20112
7.116		11005	3982
7.158		93001	102002
7.24		510394	694207
7.295		18690	16216
7.324		75017	94543
7.396		14512	17045
7.474		8205	4384
7.517		87837	131593
7.558		9586	4185
7.73		7391	1819

ASX73 1730

RT B	Compound B	Height B	Area B
7.766		125150	182617
7.897		8595	7604
7.951		79067	114523
8.001		8836	1833
8.031		150713	236476
8.102		7323	1145
8.167		6940	2212
8.21		9409	5435
8.231		8832	3142
8.274		16399	22433
8.302		13232	9999
8.336		6277	5300
8.375		13695	5335
8.414		9101	4544
8.449		8214	5779
8.459		11900	4943
8.53		11665	26411
8.576		8107	3891
8.644		10532	5603
8.671		4709	4854

AR5441224A AAAR544AA ICAL 1220399999

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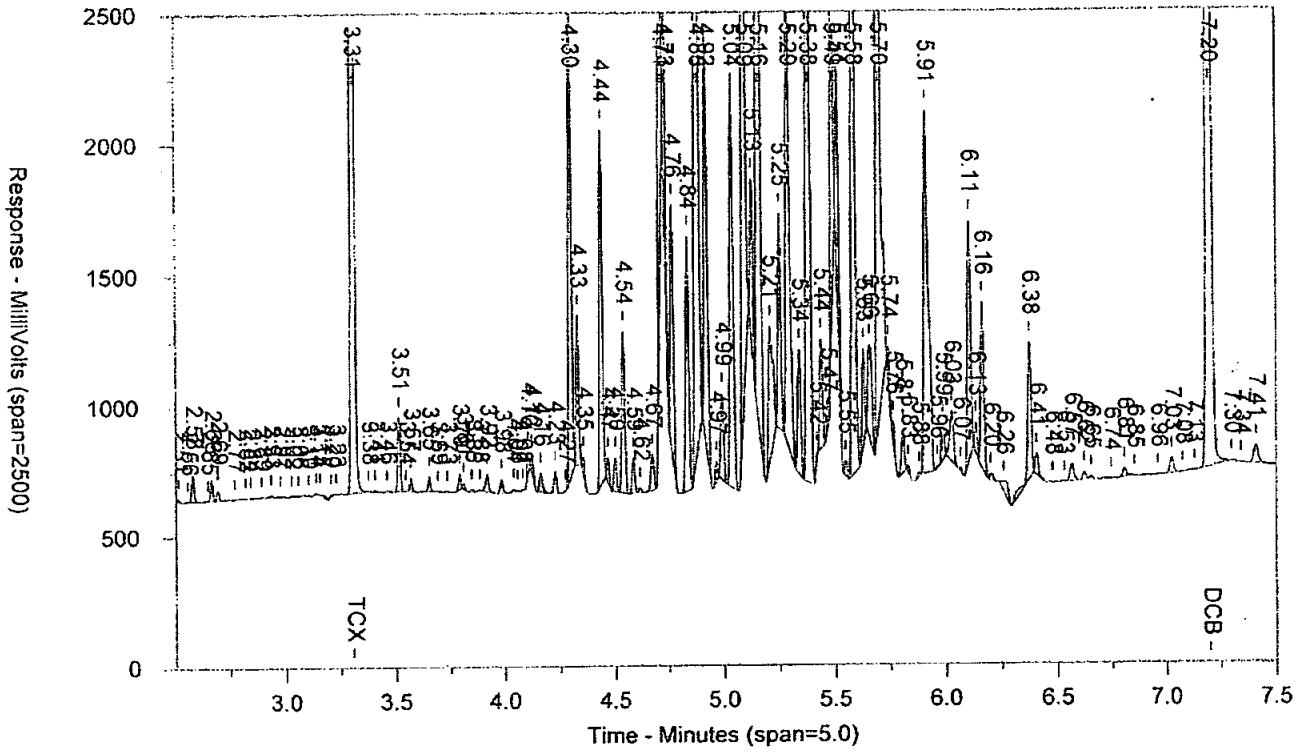

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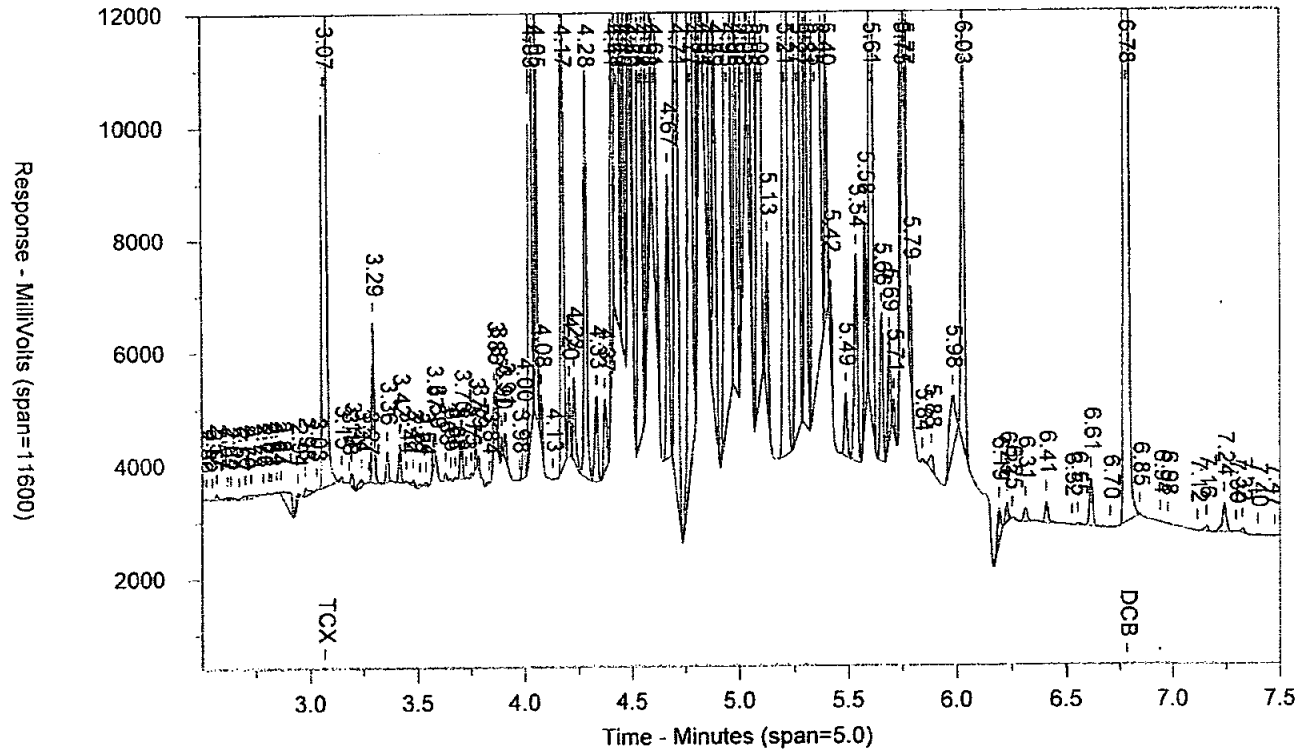

ASX73 1732

LANCASTER LABORATORIES

Sample Number: AR5441224A AAAR544AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 3:24:11 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	15882860	62.415	TCX	3.068	224124800	62.108	TCX
7.199	6013731	59.798	DCB	6.783	110964800	61.731	DCB

Files:
Area File: 1p20205.0019.RAW
Area File: 1p20205B.0019.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 3:32:55 PM
File Reported On: 7/23/2012 at 4:38:50 PM

ASX73 1733

AR5441224A AAAR544AA ICAL 1220399999

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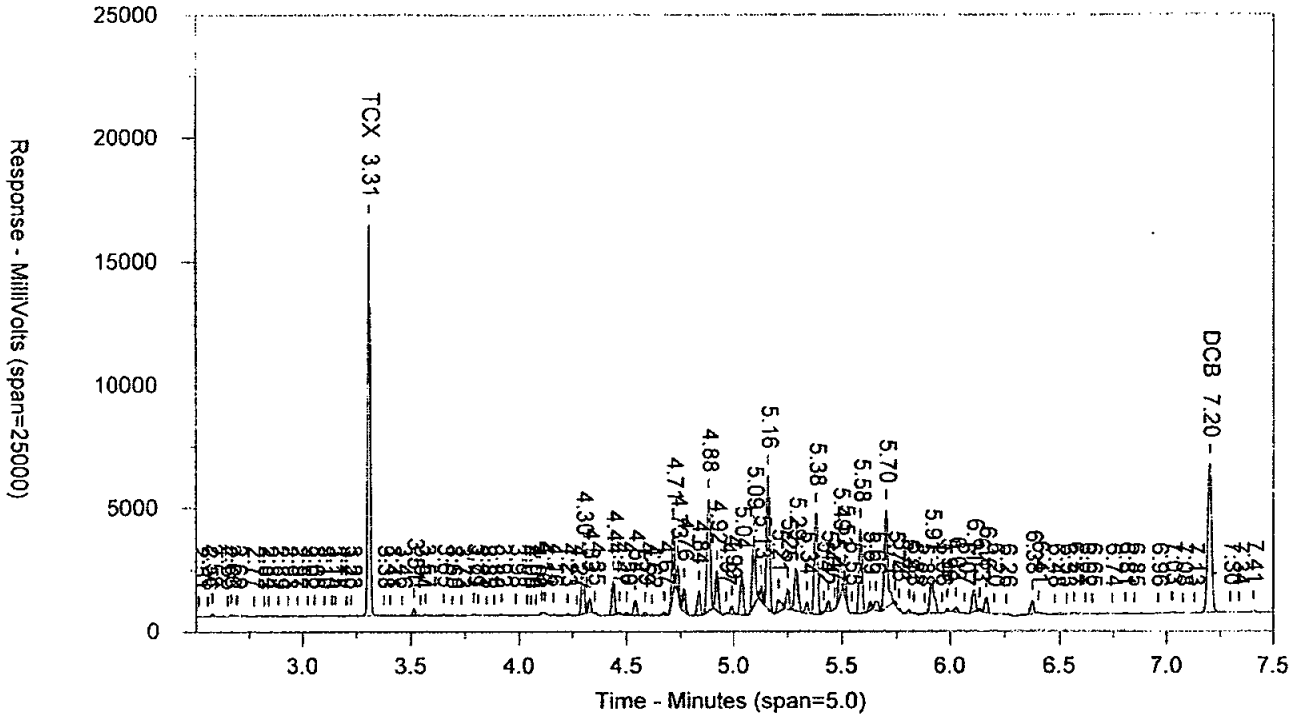

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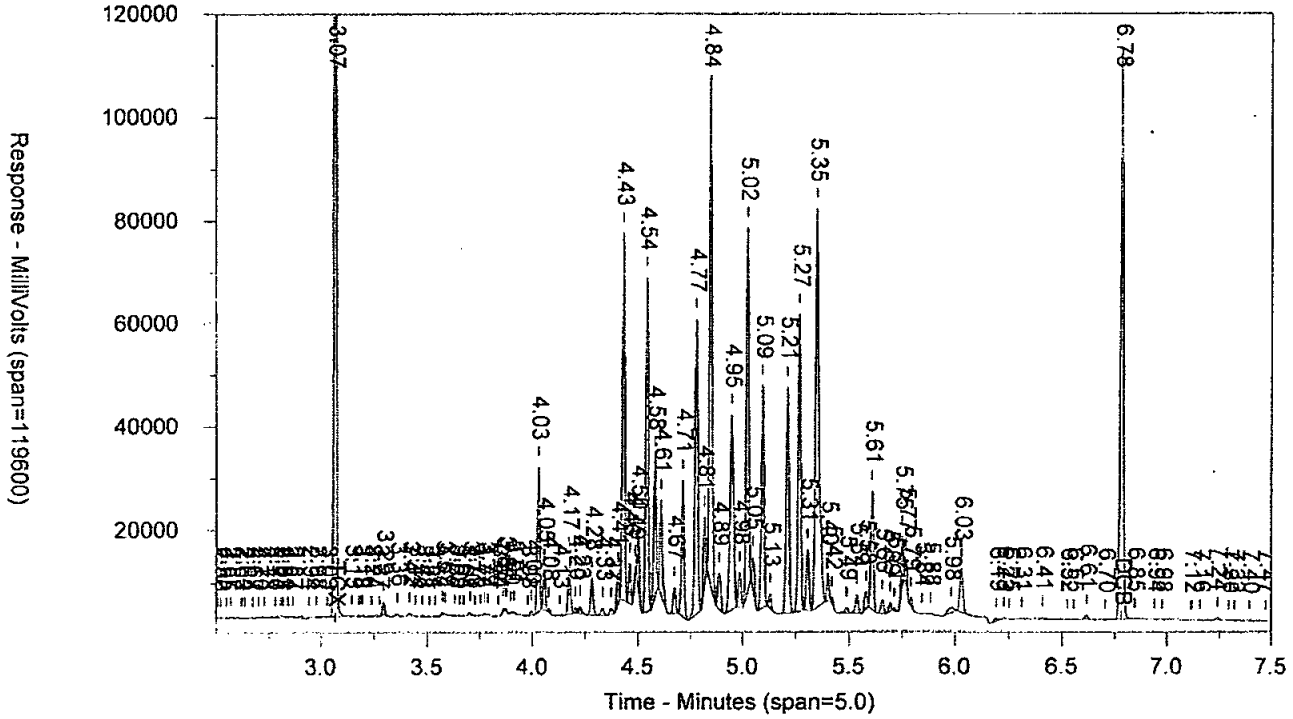


ASX73 1734

LANCASTER LABORATORIES

Sample Number: AR5451224A AAAR545AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:35:41 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0020.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.511		19423	13570
2.558		2909	1515
2.578		132717	102353
2.641		819	1441
2.663		85586	63970
2.692		50882	38910
2.742		2105	1363
2.79		3956	2536
2.83		341	1240
2.867		2532	966
2.888		2705	1874
2.932		8209	8488
2.972		3513	3968
3.035		3096	5505
3.077		6056	5323
3.134		8776	6099
3.153		6624	19141
3.225		13379	40825
3.278		1433	1515
3.307	TCX	21682250	16037780
3.406		8328	5761
3.455		11114	12217
3.514		384507	288392
3.542		2849	1422
3.567		97591	71517
3.633		2839	1234
3.651		80237	63771
3.738		4617	4480
3.791		115075	81761
3.81		47398	28930
3.848		17672	15731
3.884		10782	8026
3.919		125999	114024
3.984		67190	59130
4.037		28081	19715
4.057		11960	7014
4.08		17666	11760
4.105		144772	91636
4.12		99009	86189
4.161		145665	144195
4.226		156481	140805
4.272		8654	5423
4.298		3774156	3313676
4.329		990503	857820
4.354		105447	73749
4.438		2412682	2221867
4.467		174162	123059
4.5		240010	215407
4.539		1141827	1078005
4.585		247178	228627
4.616		33702	30540
4.674		235445	233878
4.715		4874397	4045446
4.735		1885911	1239625

ASX73 1735

RT A	Compound A	Height A	Area A
4.765		1707568	1542462
4.835		1706562	1723986
4.882		8244432	8929315
4.921		2924313	2825609
4.966		138617	108953
4.992		582482	547507
5.039		2820661	2967265
5.094		5284027	5268184
5.128		1132758	836428
5.16		9745156	9728639
5.208		527268	451991
5.223		171871	89702
5.251		1458920	1344594
5.289		3245380	3724161
5.339		844614	836408
5.382		7479475	7754740
5.418		38143	38224
5.438		716206	639210
5.466		94824	57173
5.491		2822777	2341744
5.512		1565385	1191942
5.546		111800	85427
5.585		6313320	6460398
5.629		705372	556981
5.654		614299	849174
5.701		7145134	6778290
5.723		230893	125913
5.741		228976	137093
5.762		97931	73987
5.806		305116	281061
5.828		46932	30711
5.88		28987	21488
5.911		2538647	3591903
5.961		18865	11008
5.987		271320	252115
6.026		323886	372251
6.067		37071	27389
6.108		1659914	1617058
6.134		215904	143338
6.164		1104376	1095554
6.201		48494	54405
6.249		4845	3400
6.374		909540	990607
6.405		149744	145428
6.473		6454	5705
6.511		2244	1025
6.53		1234	197
6.563		90752	109573
6.619		58587	56740
6.649		24707	22346
6.684		1998	1393
6.712		27251	78687
6.805		83447	176774
6.85		3710	2476
6.897		2783	1391
6.937		2827	1837
6.981		2249	1281
7.023		83554	100459
7.13		1977	2126
7.197	DCB	7710804	10326880
7.301		6648	6603
7.344		3560	2906
7.405		75535	110573
7.492		2213	1500
7.526		2170	934
7.541		2728	1513

ASX73 1736

RT A	Compound A	Height A	Area A
7.553		2820	3564
7.604		10443	10634
7.645		9245	10375
7.689		9285	18962
7.761		1902	451
7.776		3420	1986
7.839		2302	1040
7.876		3493	1141
7.902		2812	918
7.985		2987	3734
8.07		1502	489
8.097		1763	688
8.12		1616	1159
8.171		1920	983
8.199		1892	1065
8.243		2902	2069
8.3		2245	957
8.344		1509	1727
8.372		2612	965
8.449		2135	2705
8.481		7480	13807
8.554		15101	27436
8.624		2199	1395

ASX73 1757

LANCASTER LABORATORIES

Sample Number: AR5451224A AAAR545AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:35:41 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0020.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.504		17463	6808
2.521		20550	7974
2.54		22482	15642
2.57		79533	61238
2.616		48981	47225
2.632		65703	93695
2.674		37691	25990
2.702		41517	52333
2.732		55470	50295
2.751		19170	8685
2.778		20108	19633
2.82		19215	19988
2.846		26872	26102
2.873		176191	934217
2.944		326706	519231
2.98		152343	199086
3.03		81635	58444
3.068	TCX	298893400	218596000
3.145		223514	151971
3.174		21308	6961
3.194		299130	268759
3.238		191430	243614
3.273		46121	18081
3.294		3814424	2821167
3.359		986293	760648
3.417		856823	628051
3.446		23242	21134
3.477		185725	164600
3.514		67958	61577
3.539		72995	73787
3.574		1483332	1794007
3.63		228708	182063
3.655		70894	46487
3.678		99121	76243
3.705		1223680	1042485
3.754		70475	40058
3.773		382983	196916
3.787		583635	325543
3.836		23838	30846
3.861		1556882	876230
3.873		1095515	553307
3.896		708788	366753
3.911		805734	488411
3.958		22249	12180
3.995		1599541	1213732
4.027		52783360	39157600
4.056		15753180	10662500
4.078		1692816	1011759
4.176		18979060	15807270
4.205		2307484	1460846
4.228		2899287	2336816
4.282		14643760	12145450
4.333		2750629	2509237
4.373		2463412	2240574

ASX73 1738

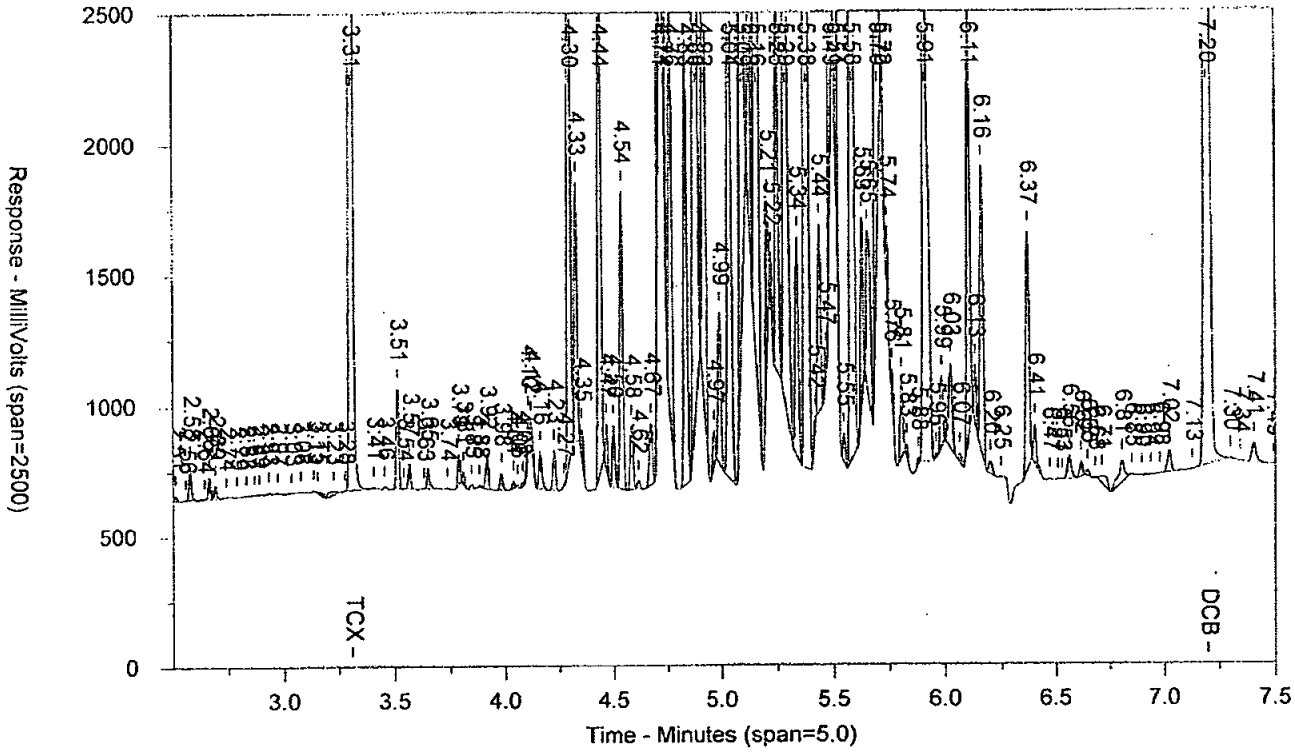
RT B	Compound B	Height B	Area B
4.405		11715180	7912557
4.432		122737900	105560800
4.46		15228300	10379440
4.485		5623516	3364815
4.5		18181910	11579430
4.541		116603500	104250800
4.579		52410790	44478620
4.606		34717850	29920790
4.67		9797315	8452368
4.71		52425010	45050740
4.775		112149300	103600500
4.814		27171170	19993220
4.845		174957400	168611200
4.886		13869280	15480910
4.946		73483220	90787860
4.985		13933290	11927160
5.022		130999000	117000600
5.048		13484760	10704680
5.093		82702810	76504340
5.129		5659789	4673948
5.171		21889	6344
5.211		86633200	82476020
5.268		113202400	101455200
5.306		25143810	21619970
5.349		147510400	176893700
5.4		10878450	7817163
5.419		1954858	1260531
5.489		2274565	2056090
5.537		7771013	7709277
5.579		7567398	5840030
5.608		48593030	42024060
5.656		5162492	4658362
5.692		3376728	2702812
5.712		1068373	625496
5.749		21169960	15123360
5.767		9734767	6120724
5.79		3421268	2060993
5.841		205764	250414
5.883		249066	230939
5.985		1559431	2925434
6.03		17075910	20398740
6.192		856202	862987
6.227		1036244	1225517
6.311		630482	1226056
6.361		27868	32993
6.408		721902	660092
6.436		30203	28020
6.554		42546	57919
6.614		1065185	1140140
6.782	DCB	148610300	149938300
6.907		23460	10836
6.977		34804	37260
7.156		141456	163439
7.239		588881	782879
7.288		29081	26368
7.321		80491	91556
7.385		9831	3039
7.397		14185	15607
7.479		10528	3467
7.515		91154	137357
7.585		10504	6673
7.688		13135	10475
7.721		7215	3061
7.763		169864	259549
7.887		9894	4451
7.952		95842	157149

ASX73 1739

RT B	Compound B	Height B	Area B
8.03		195915	300283
8.08		11004	9799
8.136		8487	11602
8.168		10083	6050
8.196		9810	5131
8.228		6862	2996
8.277		9233	7009
8.318		6915	6714
8.339		7692	2856
8.388		12533	3081
8.406		4548	2044
8.442		12247	10318
8.496		7767	2813
8.538		9668	4359
8.588		13301	12964
8.634		13199	14942
8.641		11187	3684
8.664		8662	3461

AR5451224A AAAR545AA ICAL 1220399999

\\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP20\1p20205.0020.RAW



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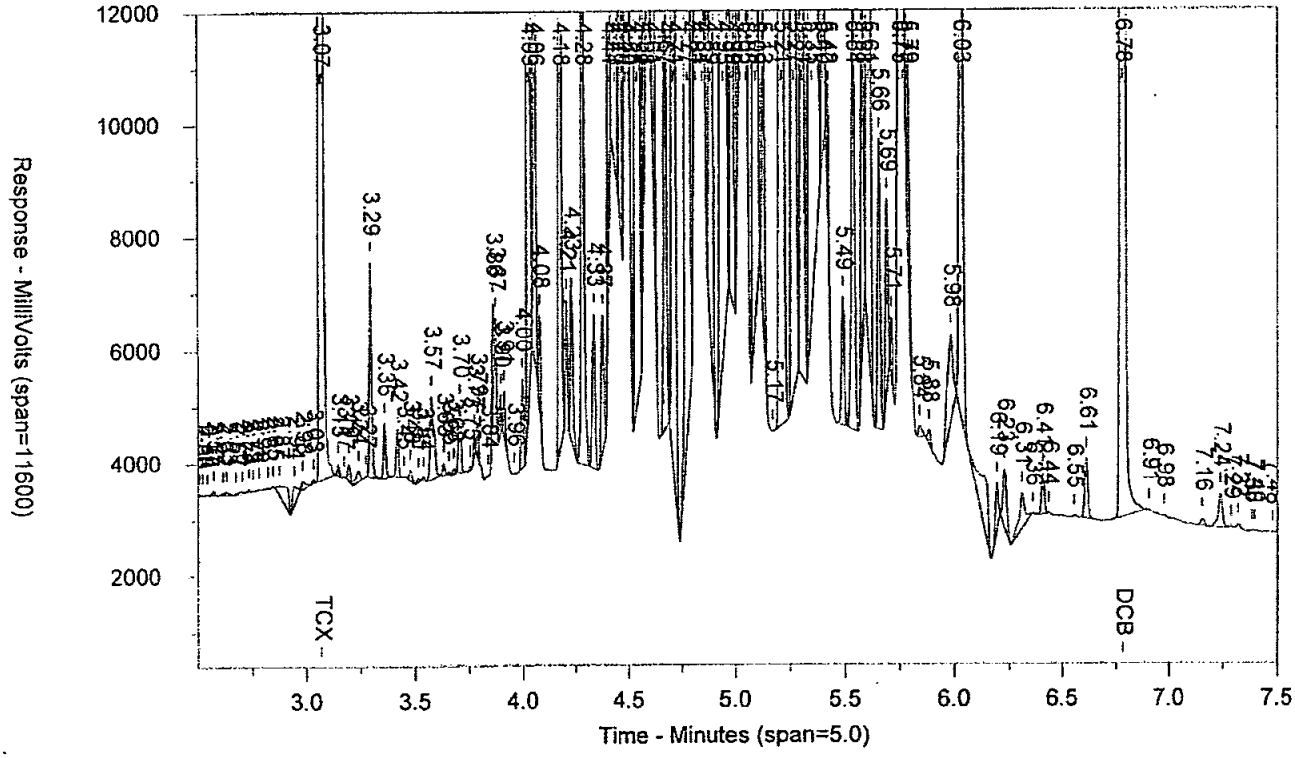

ASX79 1741

LANCASTER LABORATORIES

Sample Number: AR5451224A AAAR545AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 3:35:41 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	21682250	85.205	TCX	3.068	298893400	82.828	TCX
7.197	7710804	76.674	DCB	6.782	148610300	82.674	DCB

Files:
Area File: 1p20205.0020.RAW
Area File: 1p20205B.0020.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 3:44:22 PM
File Reported On: 7/23/2012 at 4:38:56 PM

ASX73 1742

AR5451224A AAAR545AA ICAL 1220399999

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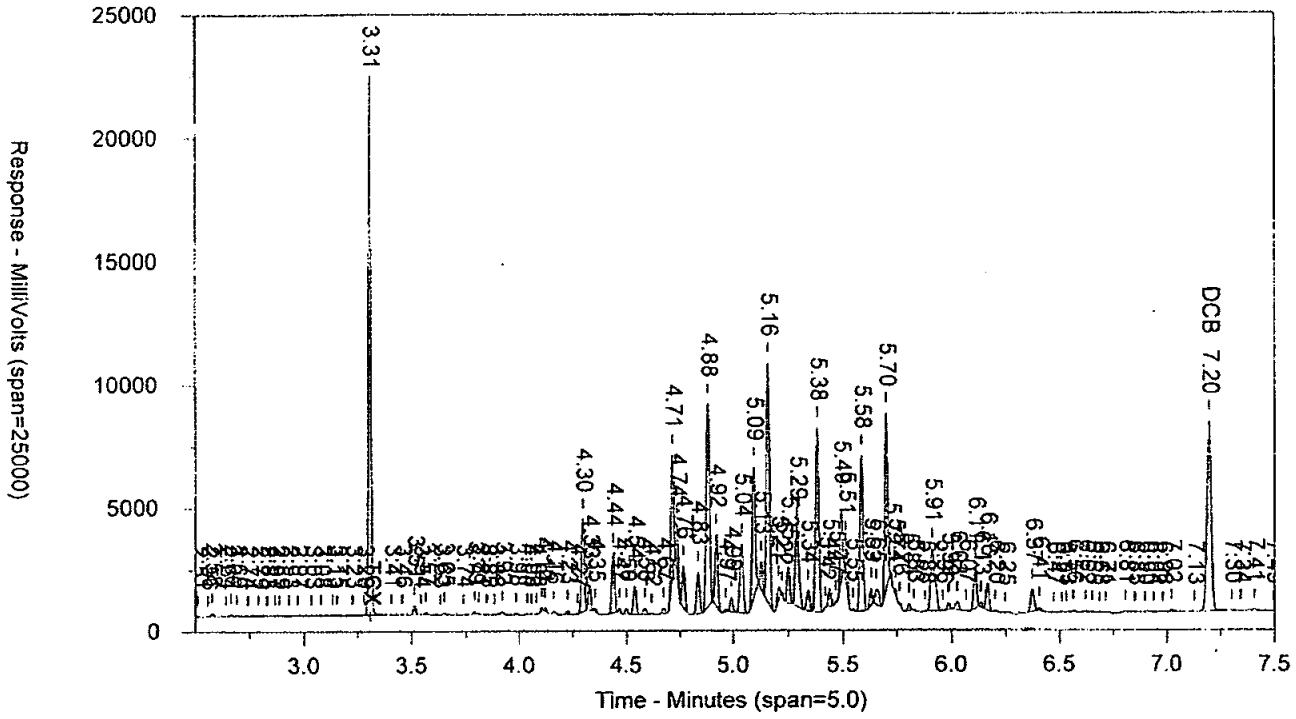

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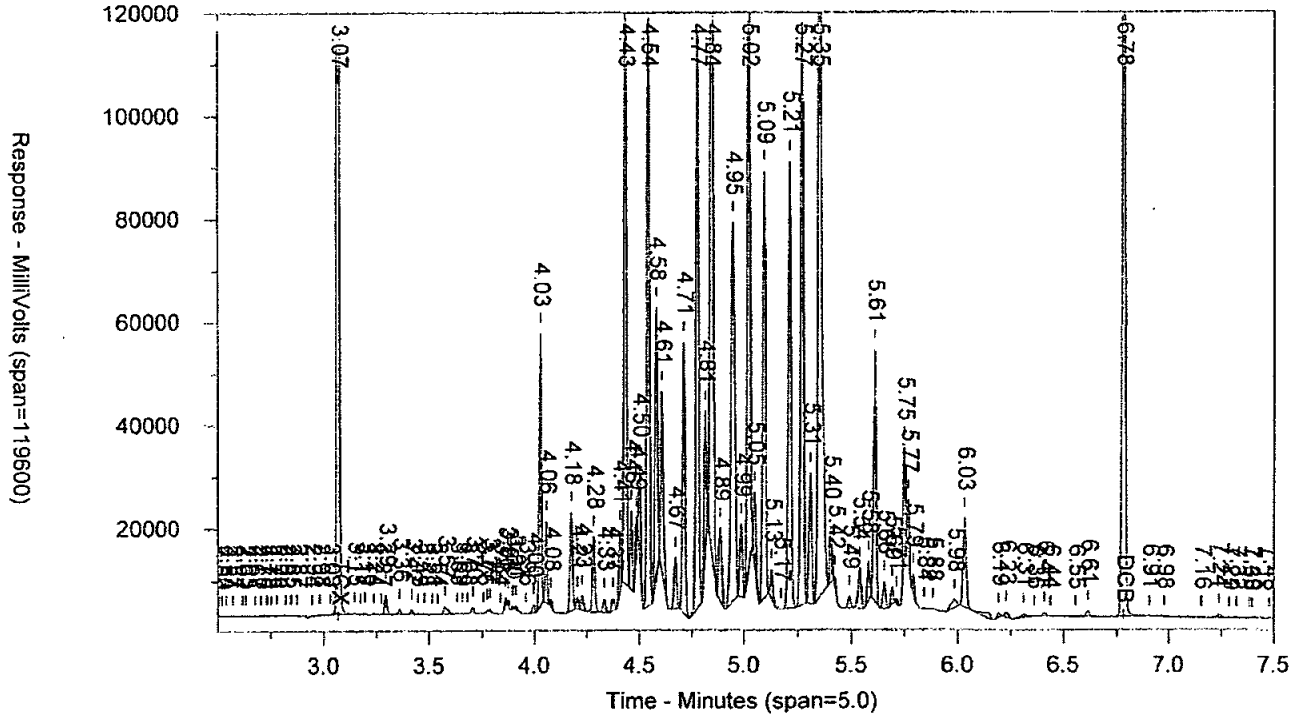

LANCASTER LABORATORIES

Sample Number: AR6231224B AAAR623AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:47:12 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0021.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.514		5674	4552
2.535		3353	2124
2.603		3855	4757
2.624		3407	3144
2.664		54060	44236
2.726		3006	1788
2.745		3330	5301
2.794		1777	494
2.826		2946	1539
2.864		1791	1271
2.882		1817	1371
2.933		6794	7684
3.043		925	2885
3.082		3867	6069
3.135		26486	79445
3.227		19227	66265
3.272		2615	702
3.306	TCX	2524	3623
3.33		10917	10463
3.384		4232	3233
3.407		10491	7721
3.43		3573	2032
3.457		6986	10199
3.516		6338	5474
3.567		38114	27572
3.639		2981	2241
3.695		3081	2360
3.734		2945	3807
3.791		41890	29055
3.81		17721	11027
3.847		8812	7722
3.884		4895	3762
3.919		48078	49481
3.973		2942	1872
3.997		3843	3138
4.039		10125	6782
4.055		5266	2841
4.081		7982	5187
4.105		23654	15881
4.119		47075	28917
4.161		55040	55838
4.227		47515	43215
4.27		4345	2651
4.298		57433	48006
4.33		15366	11628
4.346		14350	12916
4.438		47425	40299
4.464		9762	8206
4.5		11958	10695
4.541		37713	42585
4.585		13454	12641
4.639		1977	2991
4.651		1653	1008
4.715		386725	470132

ASX73 1744

RT A	Compound A	Height A	Area A
4.765		49219	42172
4.835		35533	34552
4.883		367279	380073
4.921		18827	12637
4.963		3557	2379
4.992		4429	3251
5.037		29090	28277
5.113		296650	378423
5.16		171709	173624
5.208		950546	1123052
5.248		166149	134071
5.288		1407176	1556875
5.34		5678	4379
5.38		137151	153416
5.438		233658	270806
5.491		1597142	2020298
5.546		795129	807780
5.584		611955	554650
5.604		80304	51124
5.664		88918	83064
5.699		1353659	1531079
5.763		2003597	2154634
5.807		980140	1033385
5.861		2115	870
5.902		300950	245460
5.928		1654981	1729416
5.986		741888	704712
6.01		17232	9411
6.026		207673	169006
6.07		93657	92330
6.108		345988	360062
6.164		3491610	3649867
6.192		131452	91468
6.253		2687	929
6.371		2030090	2438038
6.426		1121322	1874706
6.535		1472	3166
6.564		124067	140010
6.651		584900	754716
6.72		3120	3761
6.758		2693	2025
6.806		1286317	1459197
6.852		84527	84106
6.93		2368	651
7.025		471797	591737
7.124		2780	1668
7.164		1805	843
7.198	DCB	12514	21467
7.299		5152	7419
7.407		17329	25236
7.456		1616	945
7.54		2190	1411
7.566		6504	8508
7.644		13854	26813
7.762		2629	2149
7.8		2133	3202
7.819		1862	1018
7.861		2052	965
7.927		1825	3161
7.961		3202	1904
8.032		2408	1778
8.064		2134	1132
8.088		2241	1532
8.122		2851	1513
8.211		2202	2456
8.228		1907	1177

ASX73 1745

RT A	Compound A	Height A	Area A
8.275		1551	988
8.329		2280	3526
8.348		2440	1351
8.375		3175	2376
8.498		1694	601
8.542		2848	2223
8.644		3503	1584
8.674		13086	24849

ASX73 1756

LANCASTER LABORATORIES

Sample Number: AR6231224B AAAR623AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:47:12 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0021.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.521		21265	18276
2.554		17598	11682
2.57		56863	57438
2.605		18336	10714
2.625		33275	45388
2.674		30609	20867
2.696		40658	31188
2.712		39691	29781
2.735		30186	26833
2.755		15834	11293
2.768		18123	7496
2.776		21528	12930
2.828		10886	2909
2.849		9477	2950
2.862		131199	1189809
2.948		49070	240870
2.956		56397	35463
2.979		303959	372141
3.034		35234	30630
3.099		17953	9082
3.112		30373	18033
3.178		20972	15053
3.195		94041	78340
3.239		33288	20966
3.263		19959	16208
3.291		16121	6305
3.304		91226	75941
3.359		393839	317021
3.399		15489	5722
3.41		29582	29866
3.478		74935	64027
3.512		69136	50733
3.539		67012	63851
3.573		600697	790184
3.632		134178	99550
3.654		47180	23126
3.68		32221	19927
3.704		500650	414247
3.729		26402	17508
3.753		113920	91345
3.787		388232	372792
3.835		31428	38521
3.861		284252	158538
3.874		558113	323574
3.911		547482	548541
3.953		14999	5252
3.996		554780	460044
4.028		589206	405019
4.056		423780	338966
4.078		82725	58749
4.117		29425	14000
4.14		20629	9887
4.168		326767	331048
4.205		279767	351418

ASX73 1747

RT B	Compound B	Height B	Area B
4.228		83455	48225
4.245		198629	124659
4.266		24223	10355
4.283		472463	420742
4.332		222577	314390
4.379		40129	42302
4.406		255313	163203
4.431		3404534	2656781
4.454		685432	548013
4.499		435990	412092
4.54		4174881	3602069
4.581		383549	429531
4.606		74348	30848
4.62		121943	70672
4.647		18627	4967
4.666		72772	73647
4.709		598214	805328
4.775		1067517	1545347
4.828		1796588	1340537
4.856		11314500	9665753
4.888		3276884	3806893
4.945		20548100	19148530
4.991		184067	175397
5.021		758473	563847
5.046		2631439	2537027
5.093		24417270	23596790
5.213		21723430	22839400
5.273		3597147	3489682
5.308		6863725	6241740
5.347		13900650	13237520
5.379		34154320	28708170
5.42		14723120	13497530
5.527 4 (5)		7085985	6713603
5.579		32365010	29662120
5.608		343505	205942
5.655		13349520	14014760
5.692		2801986	2138353
5.711		2768066	1860544
5.767		67946920	62857040
5.809		751134	633183
5.851		3897356	3733958
5.884		214172	174867
5.962		590750	419062
5.986		22690010	21536770
6.033		45745850	50038190
6.192		1240791	1216434
6.227		256557	217177
6.26		1004607	949000
6.309		6881282	7107115
6.41		17822620	16999650
6.44		791602	596744
6.551		29606	27644
6.614		6440579	6522931
6.749		16173	11899
6.783	DCB	158067	150571
6.944		11443	9811
6.981		37225	39903
7.086		12379	46357
7.197		5969	2719
7.21		10385	3571
7.242		98749	116454
7.322		95171	149405
7.384		10158	2881
7.394		14626	24044
7.516		85499	114457
7.573		9467	7861

(5) Sbm 2855
23 July 12

ASX73 1748

RT B	Compound B	Height B	Area B
7.624		8623	3614
7.647		6506	3686
7.667		10699	7847
7.742		7680	9284
7.763		11063	3315
7.782		10564	5218
7.866		9638	4335
7.92		11135	2649
7.953		14518	17042
8.005		10381	2880
8.085		11610	18962
8.135		15228	11806
8.195		9295	7051
8.217		7276	7097
8.248		9488	7013
8.309		8851	2045
8.355		16850	32877
8.413		6612	6734
8.456		7353	11002
8.473		7815	2476
8.486		7905	4426
8.528		6431	5622
8.552		7857	2987
8.586		5978	9512
8.628		11894	5119
8.67		12016	5185

ASX73 1749

AR6231224B AAAR623AA ICAL 1220399999

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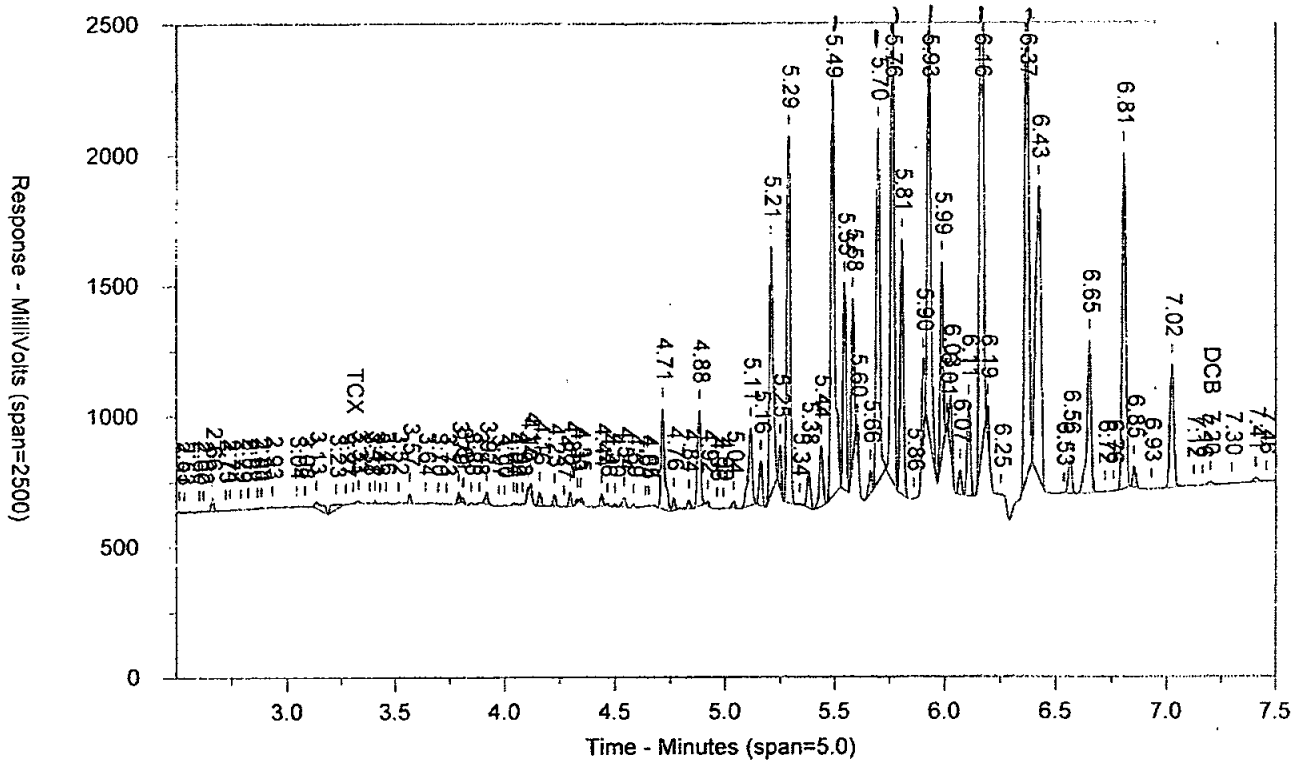

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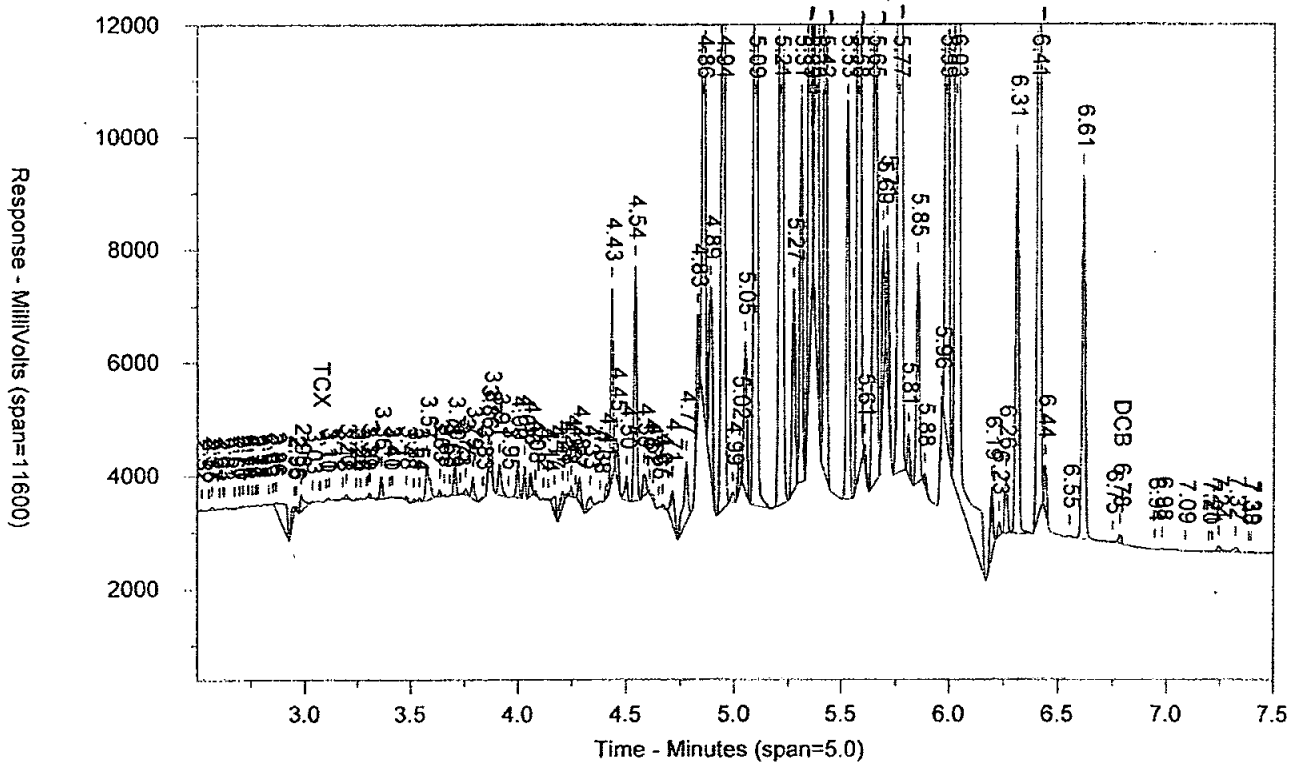

ASX73 1750

LANCASTER LABORATORIES

Sample Number: AR6231224B AAAR623AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 3:47:12 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.306	2524	.01	TCX		0		TCX
7.198	12514	.124	DCB	6.783	158067	.088	DCB

Files:
Area File: 1p20205.0021.RAW
Area File: 1p20205B.0021.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 3:55:55 PM
File Reported On: 7/23/2012 at 4:39:02 PM

ASX73 1751

AR6231224B AAAR623AA ICAL 1220399999

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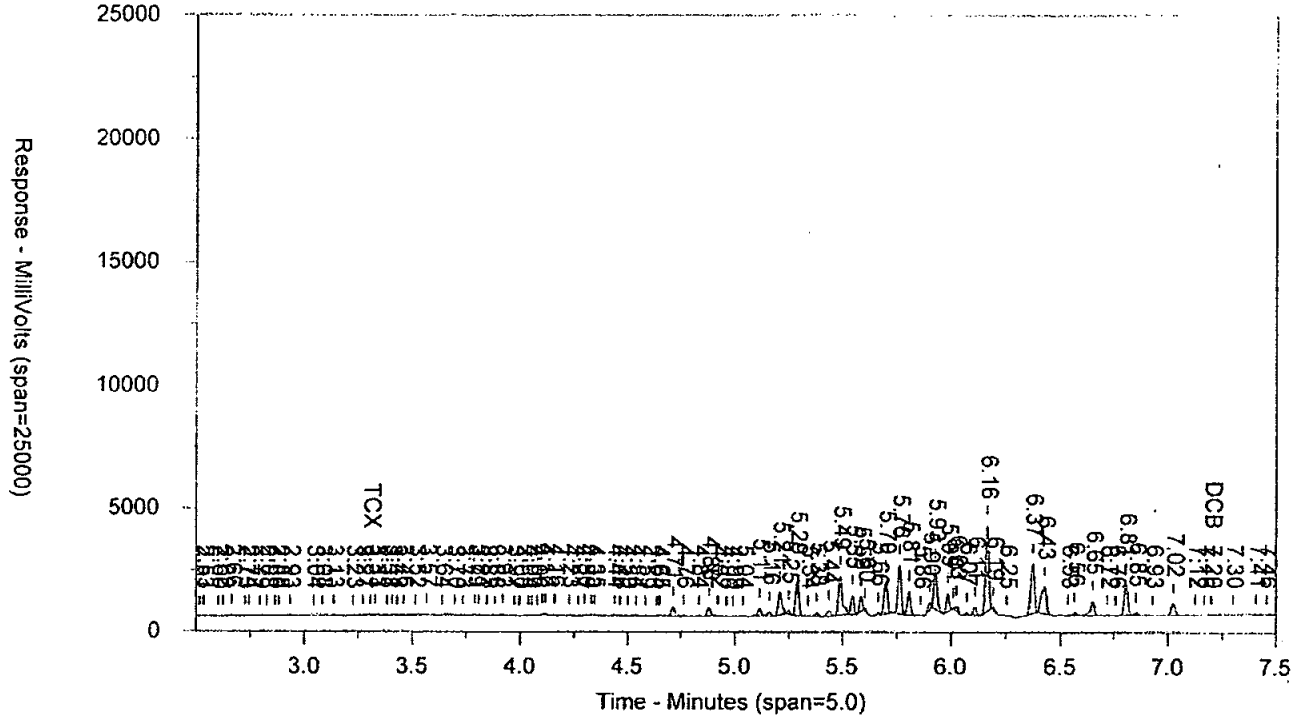

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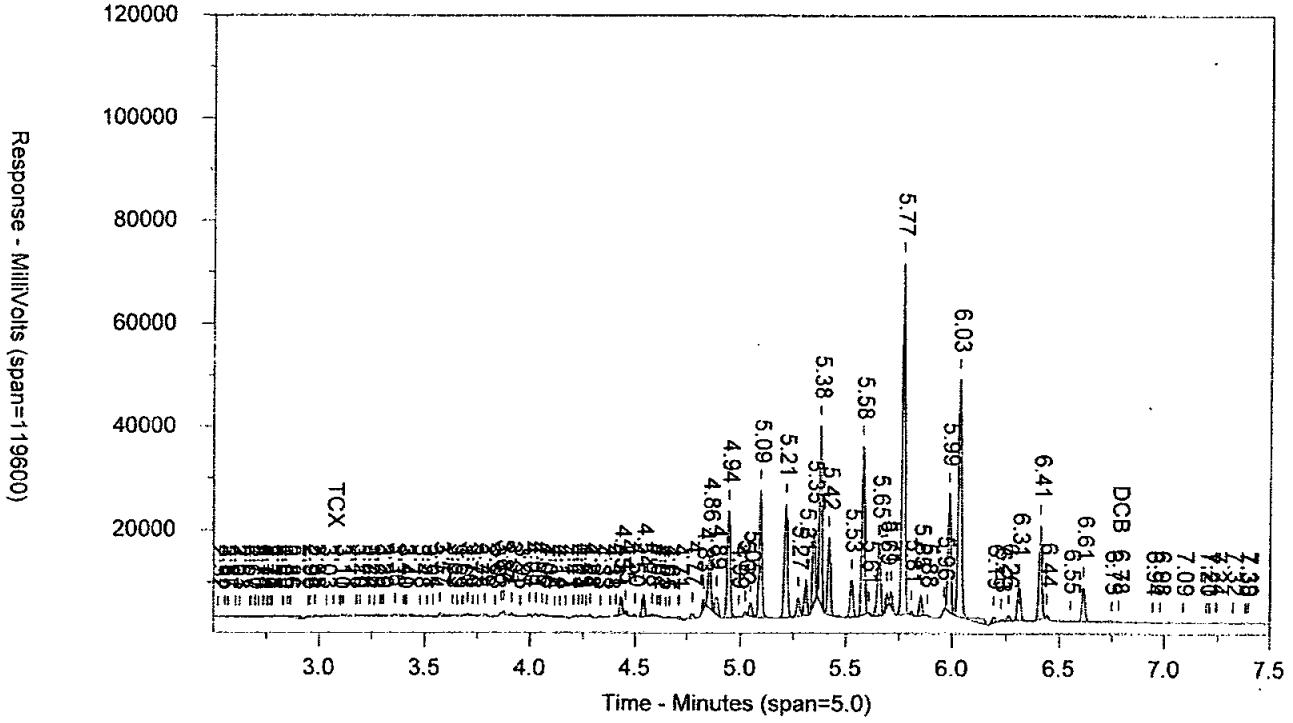

ASX73 1752

LANCASTER LABORATORIES

Sample Number: AR6831224B AAAR683AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:58:42 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0022.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.512		15355	10701
2.557		2814	3525
2.618		4971	10131
2.643		3984	3201
2.664		57531	46144
2.702		3904	3140
2.727		1883	1044
2.774		1682	1125
2.819		1960	2460
2.832		2099	1022
2.878		2471	2607
2.901		1753	418
2.934		6017	6968
3.02		4039	3040
3.078		7033	5287
3.105		5053	5788
3.135		25591	86588
3.21		14034	23486
3.227		3262	1949
3.305	TCX	2374	717
3.33		20602	23676
3.382		4884	3130
3.406		11135	9452
3.461		2022	847
3.471		1807	1003
3.516		2287	2218
3.544		3287	2570
3.565		4277	6471
3.634		2475	3454
3.675		2651	790
3.683		3093	2722
3.79		10302	7727
3.847		6591	6322
3.878		3792	2157
3.908		13285	19173
3.993		1930	1456
4.036		2129	1271
4.079		20746	16769
4.106		6423	4231
4.12		15184	8777
4.163		15990	26034
4.227		17957	17429
4.27		4238	4332
4.298		18130	14512
4.346		45020	66780
4.437		21969	19642
4.465		6953	4547
4.499		7787	7378
4.539		19220	22119
4.587		8592	8316
4.615		2086	982
4.634		2622	1155
4.674		4006	4014
4.715		96772	81665

RT A	Compound A	Height A	Area A
4.735		22826	15091
4.765		38522	45244
4.833		3990	4563
4.879		30851	29409
4.904		15158	13376
5.033		11634	14069
5.093		12281	13246
5.147		58016	84751
5.208		7203	5799
5.249		14615	14959
5.318		4658	8452
5.337		2773	1533
5.379		19860	25418
5.449		24461	52467
5.489		21360	18857
5.545		77861	85482
5.584		24814	23384
5.663		3548	2956
5.696		36979	39071
5.763		942071	1029058
5.806		72164	73112
5.869		1854	1211
5.902		41201	34698
5.945		1100911	1235144
5.978		6261	3242
6.01		434114	663767
6.164		482547	463879
6.191		230099	196497
6.267		40492	50392
6.37		3964262	4457250
6.429		3433467	4112157
6.564		3075694	3461424
6.629		899213	1104853
6.725		5911	14711
6.761		2592	943
6.806		1454963	1673697
6.892		9577	11498
6.948		1900	1202
6.958		2691	866
7.025		8386463	10185200
7.134		3540	3132
7.199	DCB	1788565	2460243
7.298		11214	14617
7.407		61142	100753
7.563		7573	19828
7.603		4997	3910
7.641		11052	15641
7.708		2766	1303
7.754		1776	1053
7.774		2636	1084
7.886		2446	1309
7.941		2173	1330
7.969		2092	860
8.028		3217	4380
8.085		2196	1178
8.135		2015	3382
8.193		1577	466
8.225		2740	1912
8.261		2207	2289
8.329		1505	992
8.34		2925	1444
8.414		3308	786
8.447		1690	685
8.485		2488	1949
8.527		1859	2410
8.576		1693	2210

RT A	Compound A	Height A	Area A
8.605		2136	669
8.64		1575	621
8.664		2459	2251

ASK73 1755

LANCASTER LABORATORIES

Sample Number: AR6831224B AAAR683AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 3:58:42 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0022.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.516		38132	34809
2.545		60818	100933
2.607		47684	56182
2.627		74702	146866
2.673		47465	33434
2.705		61791	87650
2.732		65222	92953
2.748		52462	70830
2.778		46064	31472
2.801		16289	5909
2.81		12552	3234
2.85		28100	22293
2.864		55305	54345
2.885		82783	666426
2.943		477016	797186
2.979		205231	266333
3.028		106265	79482
3.052	TCX	31105	10869
3.1		28790	18353
3.113		23229	9615
3.146		148552	97459
3.174		27508	12775
3.196		186778	263377
3.268		29299	42397
3.287		63021	75881
3.323		34767	20915
3.359		39115	37939
3.403		21060	7362
3.444		35405	48345
3.481		72642	72998
3.509		70738	53273
3.573		116719	101110
3.589		59946	39066
3.631		77632	61495
3.652		28847	20261
3.685		14246	9222
3.706		131260	107791
3.726		50583	34466
3.752		140398	119274
3.787		516323	467455
3.841		28861	64677
3.859		126304	67841
3.876		205385	136534
3.912		156841	169401
3.956		15989	12049
3.98		11768	3668
3.995		194534	185913
4.027		171989	100360
4.056		229783	215418
4.079		64776	55901
4.117		23689	11157
4.137		28566	19938
4.162		357139	405872
4.205		282312	439172

RT B	Compound B	Height B	Area B
4.226		41701	18370
4.244		326829	212273
4.282		331013	388759
4.333		183790	266805
4.374		59371	81556
4.405		216371	149972
4.43		362745	233014
4.454		1024421	959466
4.485		50289	69313
4.539		137534	154186
4.587		369638	424794
4.622		193690	133833
4.66		67937	86645
4.709		300724	481471
4.775		364294	973007
4.817		52423	45385
4.843		233817	260513
4.88		75193	152705
4.937		215859	413286
4.984		56888	49522
5.021		270136	360208
5.081		550223	735308
5.128		91772	82283
5.193		15907	7892
5.216		1051422	1112757
5.268		337821	350518
5.309		356075	302014
5.348		39825	27497
5.379		12440340	11903720
5.42		901402	772821
5.464		229870	262739
5.526		683941	615918
5.579		15642490	15472560
5.645		4524157	4503904
5.705		262528	276004
5.767		7295387	7001508
5.824		16767	6240
5.851		3711353	3496252
5.884		197824	173668
5.93		44455	22453
5.985		67297660	64820720
6.034		73299680	68888990
6.191		37916600	35465270
6.259		11883280	11555190
6.31		1146700	1145713
6.354		65043	76324
6.408		19452620	19368160
6.548		108085	144751
6.615		161595600	157036300
6.744		34155	32873
6.782	DCB	29187470	29169470
6.952		20576	7786
6.979		87837	69779
7.156		89436	137943
7.239		365496	445662
7.272		21767	17015
7.326		111185	197074
7.403		31155	47347
7.461		13827	14689
7.514		83429	109336
7.57		14408	18951
7.73		35351	64104
7.786		37250	65944
7.846		24392	36058
7.894		7612	2105
7.946		4743	771

ASX73 1757

RT B	Compound B	Height B	Area B
7.968		9039	10710
8.018		5776	4430
8.053		8489	1696
8.082		8053	2893
8.089		12852	4289
8.153		11057	7092
8.188		11744	13808
8.24		9980	8424
8.304		9262	9078
8.331		9659	10897
8.344		11558	18756
8.438		6179	20062
8.453		9984	9242
8.515		13485	20236
8.54		12380	3927
8.578		7302	8616
8.587		8853	5580
8.603		14664	8094
8.654		10080	4097
8.668		10140	4909

AR6831224B AAAR683AA ICAL 1220399999

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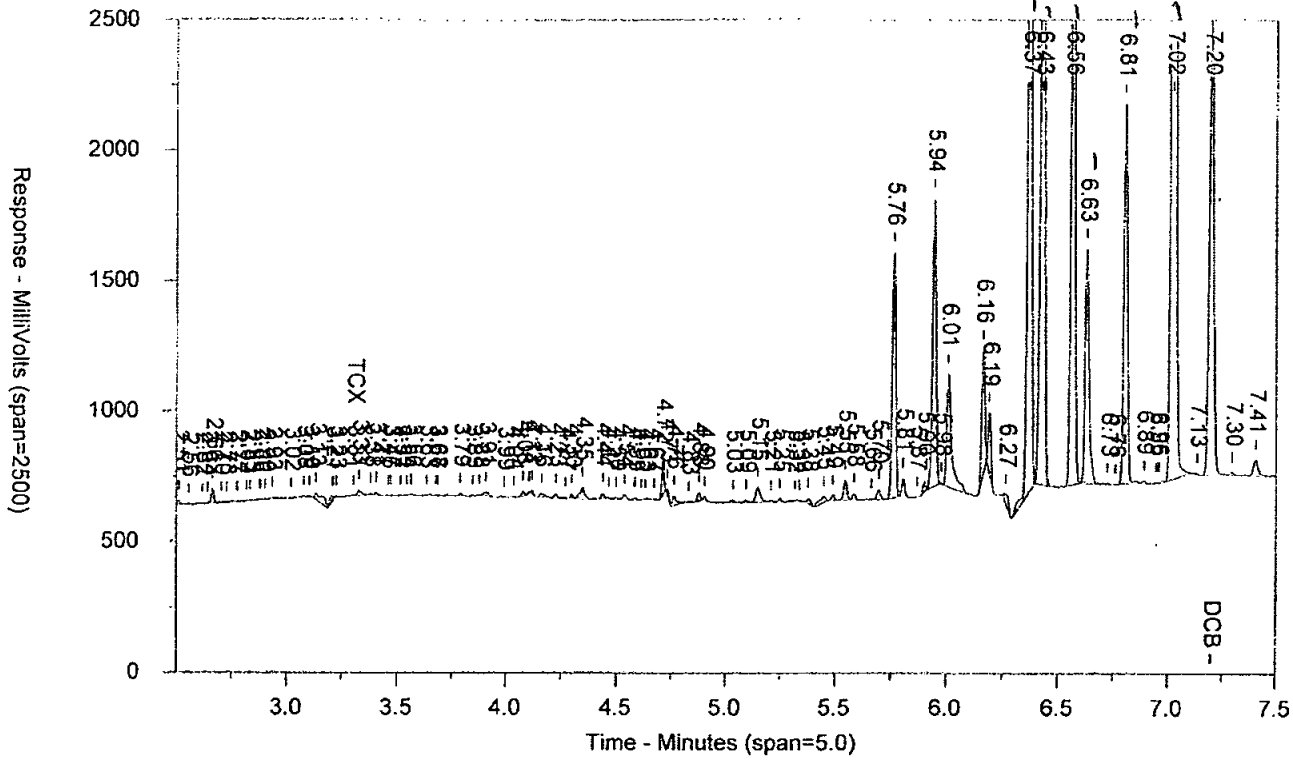

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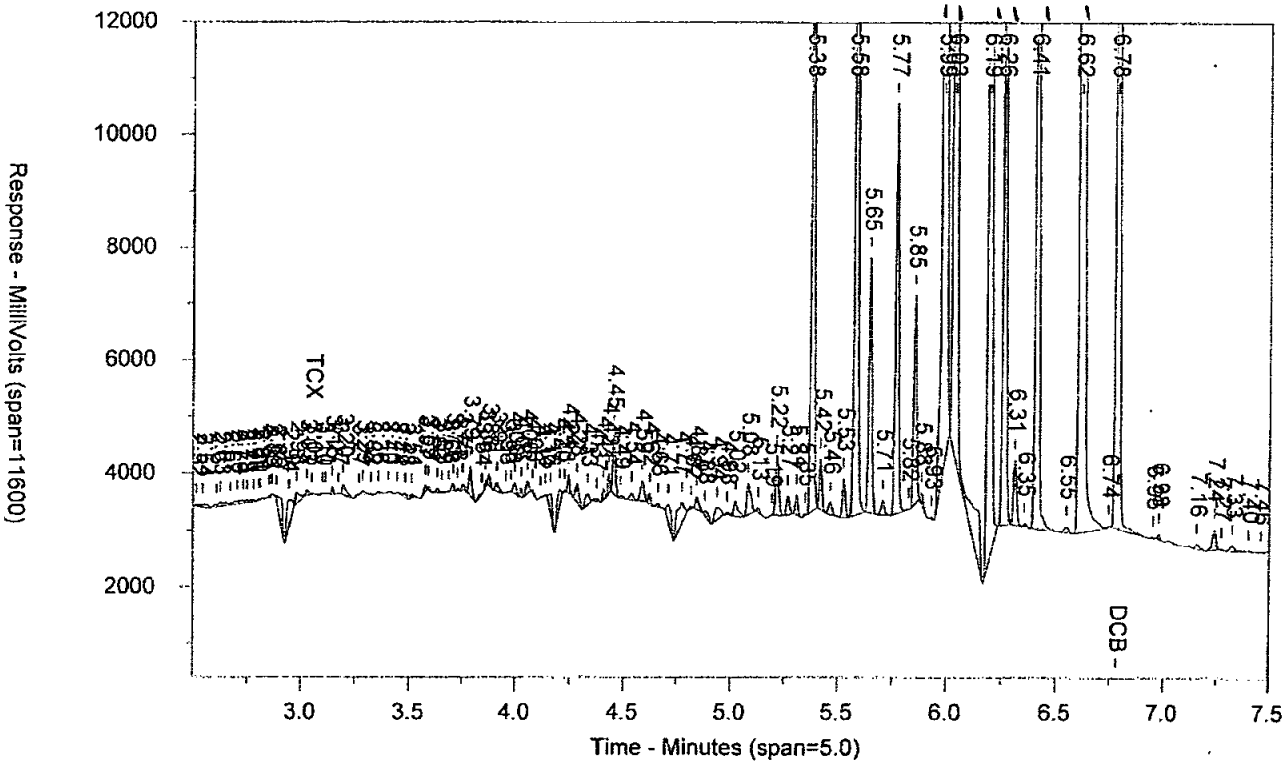

ASX73 1759

LANCASTER LABORATORIES

Sample Number: AR6831224B AAAR683AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 3:58:42 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.305	2374	.009	TCX	3.052	31105	.009	TCX
7.199	1788565	17.785	DCB	6.782	29187470	16.237	DCB

Files:
Area File: 1p20205.0022.RAW
Area File: 1p20205B.0022.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 4:07:23 PM
File Reported On: 7/23/2012 at 4:39:08 PM

ASX73 1769

AR6831224B AAAR683AA ICAL 1220399999

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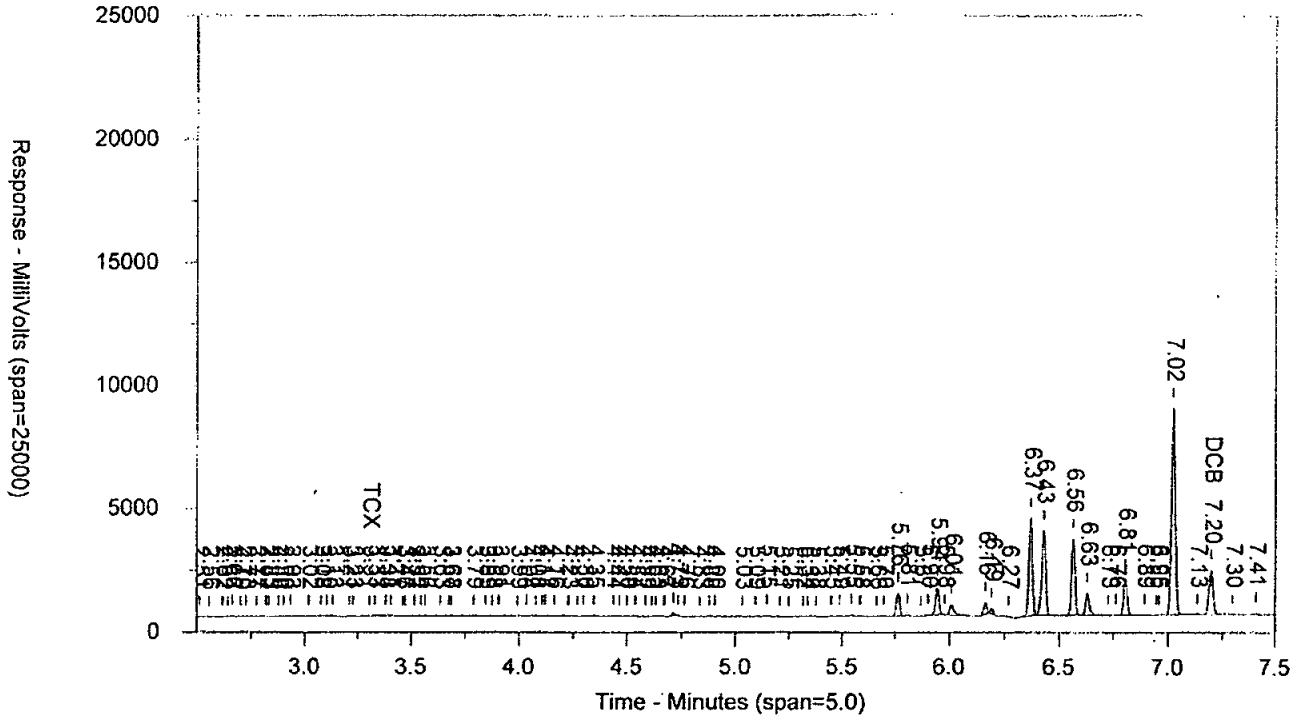

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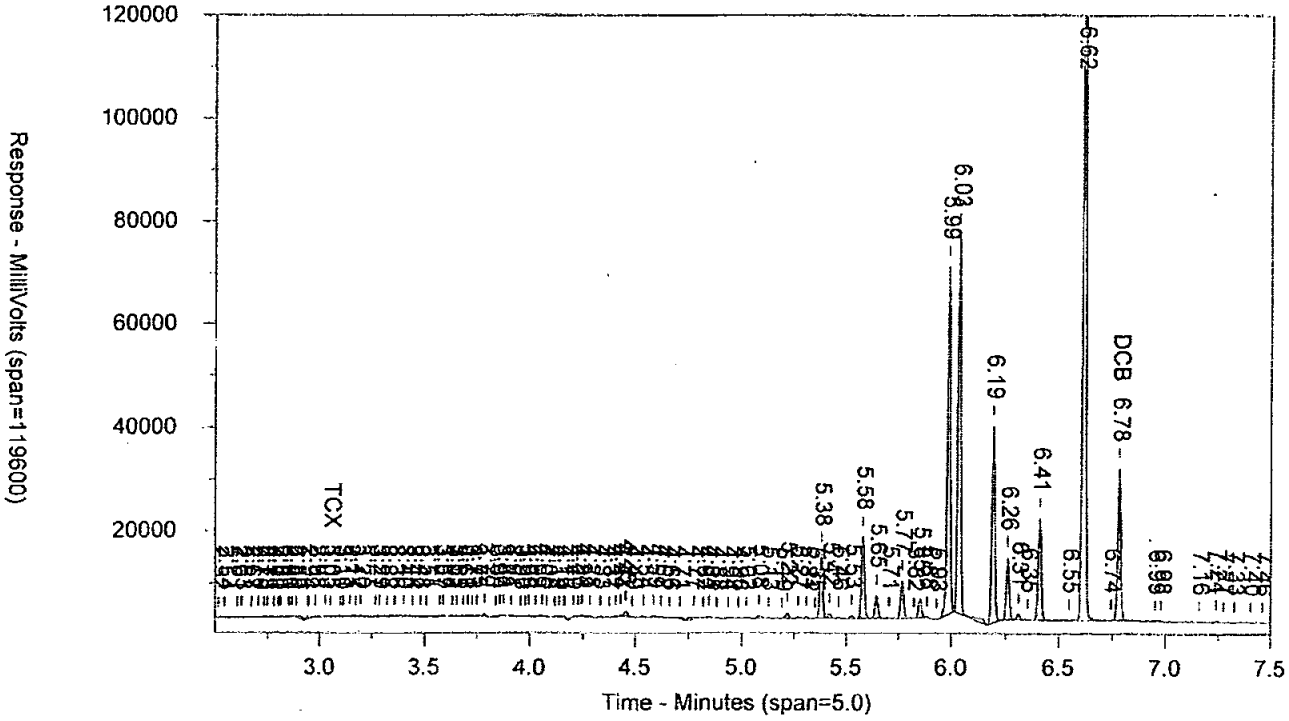

ASX73 1761

LANCASTER LABORATORIES

Sample Number: AR2131224A AAAR213AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 4:10:14 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0023.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.514		3508	2662
2.543		6188	6575
2.577		79120	80527
2.634		10782	19033
2.664		42898	40687
2.691		34105	38489
2.74		9879	12886
2.761		9458	13028
2.807		4776	6732
2.888		3612	5982
2.93		451567	350944
2.978		2846	2788
3.023		11410	10981
3.051		1963	1163
3.116		2064	1498
3.134		8148	9132
3.177		9517	6201
3.216		156282	126375
3.247		2383	1858
3.307	TCX	10563070	8120088
3.378		4020	2720
3.409		6692	5966
3.459		554953	531814
3.515		577243	473718
3.566		1429227	1104118
3.63		8264	5860
3.65		37073	32998
3.699		2115	1455
3.728		2500	1127
3.79		81908	54513
3.819		68442	118736
3.884		206224	162409
3.918		105480	85235
3.941		4079	2661
3.984		34015	36417
4.038		24666	16387
4.055		32288	20313
4.082		5220	3558
4.105		37762	25574
4.118		107225	71750
4.16		143329	136089
4.227		98121	84510
4.259		9049	10922
4.298		44250	36994
4.328		19592	19517
4.403		1776	1946
4.438		37098	32170
4.468		11115	10031
4.499		9582	7838
4.541		50700	53219
4.585		10479	9390
4.633		4728	5503
4.672		16028	22709
4.713		50014	41470

ASX73 1762

RT A	Compound A	Height A	Area A
4.734		35749	27633
4.763		35586	38091
4.833		9392	9042
4.88		74331	71582
4.905		2037	606
4.921		12762	9057
4.951		4797	5195
4.99		4877	6125
5.036		18392	19397
5.093		35246	33749
5.129		8540	7160
5.159		63601	61482
5.207		4762	5455
5.252		10941	11807
5.288		22663	21618
5.339		4481	2867
5.381		48793	55186
5.446		34478	84833
5.491		17544	14301
5.513		9743	8901
5.558		9545	7384
5.584		25136	21277
5.627		4111	3207
5.668		2485	1797
5.7		34567	33550
5.762		4670	5710
5.802		7484	20262
5.914		8331	12655
5.979		36397	87674
6.049		1794	1000
6.111		6003	7554
6.164		9864	16144
6.268		52034	100089
6.374		19302	145959
6.405		1608	880
6.437		2639	3365
6.477		772	1334
6.565		52152	91008
6.627		6416	11287
6.655		3137	3064
6.692		1692	1417
6.716		2609	3458
6.744		2807	1072
6.772		2371	1532
6.817		7753	13197
6.847		1350	433
6.864		9424	17041
6.953		2442	4476
7.025		39782	46707
7.067		22763	24298
7.106		1610	1031
7.126		2211	1830
7.141		1860	958
7.199	DCB	4119714	5651957
7.312		3429	3599
7.395		3565	8239
7.505		3614	2316
7.534		2111	2979
7.555		6073	6670
7.608		4909	4312
7.644		13964	20730
7.722		2529	408
7.787		2029	3548
7.83		2996	3126
7.875		1705	1066
7.901		1817	2011

ASX73 1763

RT A	Compound A	Height A	Area A
7.983		2341	4639
8.008		4045	5113
8.061		2740	1717
8.082		1665	841
8.129		7382	16131
8.177		2688	1873
8.256		7997	16803
8.318		1929	1007
8.363		2615	1947
8.39		1834	470
8.471		1347	1227
8.499		3450	4947
8.554		4725	4665
8.629		2552	534
8.643		1805	1199

LANCASTER LABORATORIES

Sample Number: AR2131224A AAAR213AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 4:10:14 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0023.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.512		67300	39928
2.526		137352	150662
2.547		233007	312854
2.597		209902	285687
2.605		195888	139101
2.626		131802	219737
2.646		70792	33744
2.661		16599	14364
2.698		31168	31160
2.733		3423580	2825783
2.804		118005	118953
2.847		29236	14511
2.878		139983	522269
2.963		34707	271227
2.977		98183	106611
3.018		1124169	863163
3.067	TCX	157167200	110589000
3.108		1573868	1404040
3.185		10215	19808
3.2		111263	85450
3.24		5777782	4460401
3.271		10703	5393
3.303		5087299	4778167
3.359		17141780	12219600
3.417		451330	311848
3.446		76222	68433
3.477		174664	144806
3.511		164324	210187
3.573		634056	360227
3.587		150954	59197
3.596		297871	125091
3.618		582901	514424
3.651		126784	73185
3.678		2124291	1473021
3.704		1016585	787843
3.736		39314	29917
3.752		63533	36027
3.773		161573	80913
3.787		455399	256830
3.802		203355	95283
3.86		474099	283733
3.873		1310242	756360
3.911		1275458	1364742
3.962		24941	18091
3.995		1144628	934821
4.027		468740	293190
4.056		335690	270310
4.077		148114	139409
4.14		78354	209161
4.168		268430	237063
4.203		304027	367112
4.229		105762	99050
4.266		18217	7797
4.282		617246	526714

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RT B	Compound B	Height B	Area B
4.331		269392	849537
4.406		215685	161399
4.43		962648	759029
4.46		329966	257228
4.498		132390	156529
4.517		13633	5635
4.54		633528	550676
4.582		315821	353542
4.604		54146	24747
4.621		66645	36640
4.663		203629	318886
4.711		669697	997684
4.774		766517	1567995
4.815		134043	98414
4.842		752572	708284
4.884		142844	216059
4.946		389535	586721
4.98		58532	39542
5.021		453142	413446
5.048		76179	49365
5.093		396711	541925
5.19		35532	31321
5.212		261427	414523
5.268		322482	357186
5.309		21563	7647
5.348		399675	612775
5.403		9458	4726
5.419		42311	28618
5.462		120729	134739
5.499		14863	8399
5.522		75357	98771
5.58		56449	50341
5.606		64503	50458
5.674		24267	83389
5.7		24821	35677
5.735		19597	23516
5.768		64056	68814
5.827		253128	501395
5.883		477846	876388
6.013		191094	208765
6.031		41805	27019
6.128		608964	1619809
6.192		410841	438500
6.264		65841	194591
6.31		12911	6401
6.35		15837	11664
6.409		133878	229382
6.489		17802	20994
6.534		11138	2900
6.553		34020	35198
6.581		11618	2735
6.614		528963	558249
6.672		81447	168800
6.783	DCB	71149390	71067350
6.848		31428	39970
6.913		13611	10033
6.982		13689	4806
7.099		24144	49348
7.158		98461	124519
7.214		46993	60812
7.24		35894	35950
7.289		8289	4414
7.325		86509	122610
7.396		29522	59288
7.515		79592	111059
7.585		13541	14465

RT B	Compound B	Height B	Area B
7.635		12781	11205
7.681		10440	7112
7.764		91659	136190
7.832		10623	11348
7.852		11260	9507
7.893		8411	5874
7.954		68547	149699
8.029		101607	145662
8.156		15056	29601
8.205		49724	82183
8.242		9280	4759
8.315		9579	8560
8.341		20507	33464
8.425		46454	114583
8.479		7861	2857
8.511		10048	10339
8.579		13078	15280
8.61		11819	8670
8.632		10252	5616

ASX73 1767

AR2131224A AAAR213AA ICAL 1220399999

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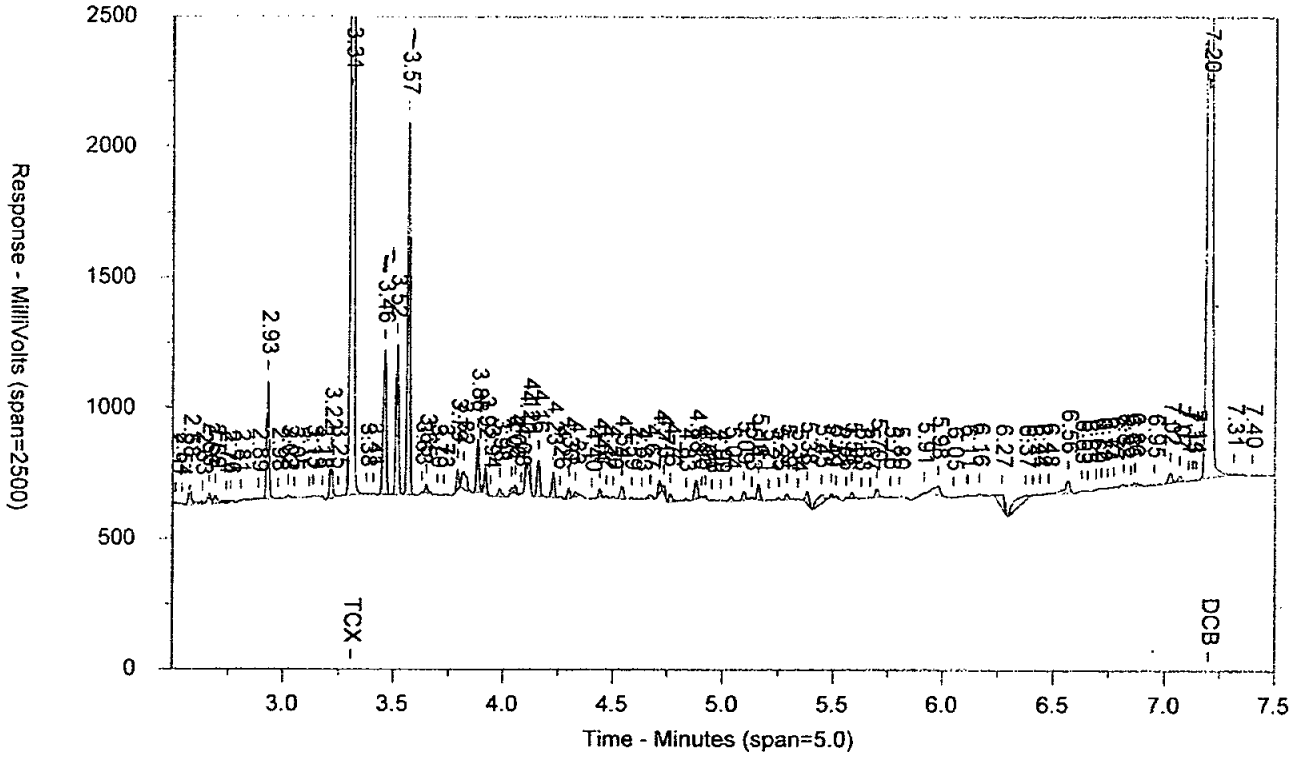

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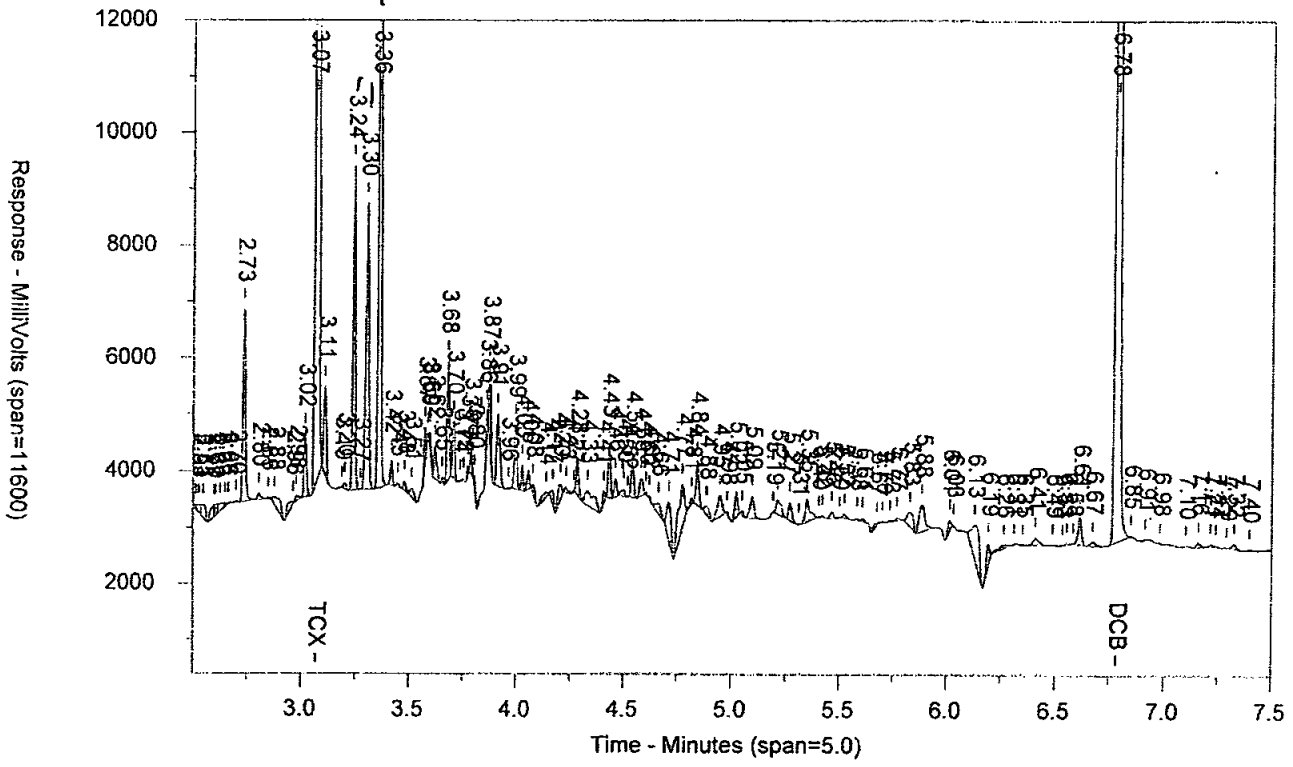

ASX73 1768

LANCASTER LABORATORIES

Sample Number: AR2131224A AAAR213AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 4:10:14 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	10563070	41.51	TCX	3.067	157167200	43.553	TCX
7.199	4119714	40.965	DCB	6.783	71149390	39.581	DCB

Files:
Area File: 1p20205.0023.RAW
Area File: 1p20205B.0023.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 4:18:57 PM
File Reported On: 7/23/2012 at 4:39:14 PM

AR2131224A AAAR213AA ICAL 1220399999

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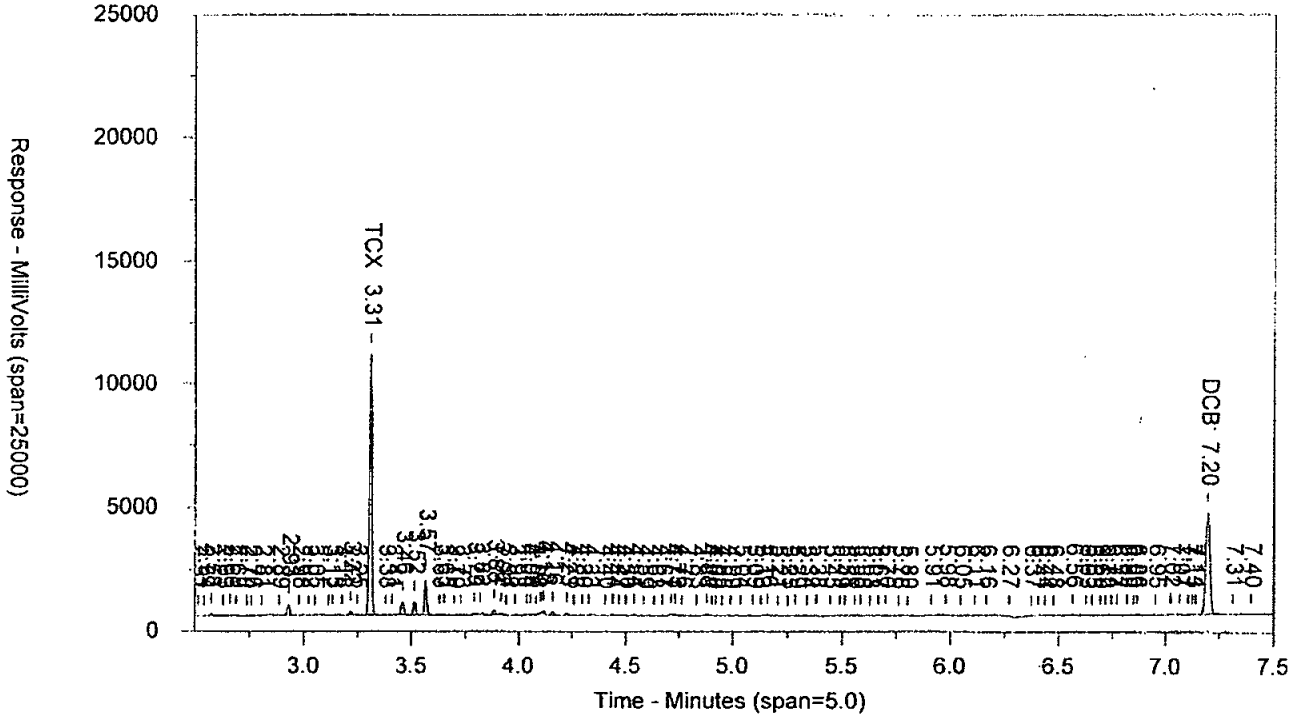

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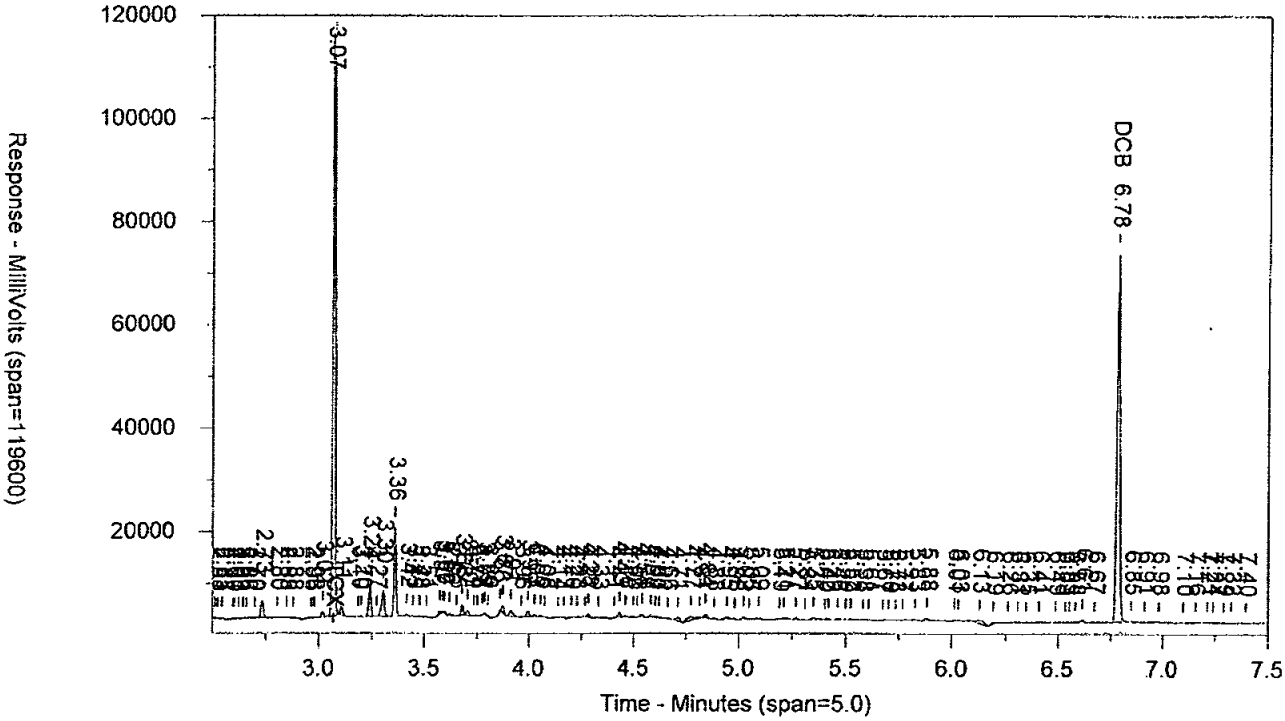

ASX73 1778

LANCASTER LABORATORIES

Sample Number: AR32X1224B AAAR32XAA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 4:21:36 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0024.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.51		2272	1315
2.549		3339	2259
2.578		68985	56104
2.663		24130	22415
2.691		26126	20642
2.832		4318	14235
2.871		2186	2013
2.885		3721	1799
2.91		1854	562
2.93		311451	244508
2.977		1507	424
2.999		2070	1831
3.022		11161	10728
3.089		1553	1901
3.133		6296	8301
3.178		12376	8089
3.215		109497	89411
3.269		2100	1136
3.306	TCX	10262890	7743811
3.38		4252	4555
3.408		5533	3724
3.458		446601	432529
3.515		542066	424496
3.541		6337	2983
3.566		1364077	1067617
3.629		3720	2551
3.649		15071	7591
3.664		61153	38192
3.73		3555	5657
3.79		562125	407742
3.809		265819	168403
3.849		73316	45585
3.883		169665	140362
3.917		686469	579319
3.948		3989	2683
3.982		17010	11557
3.998		17970	9534
4.037		172832	116515
4.054		94916	57449
4.077		5576	2666
4.104		346560	227587
4.117		623706	380820
4.159		793834	728102
4.226		684151	624823
4.27		52987	42056
4.297		403475	343252
4.328		314867	296481
4.352		75700	48898
4.437		472484	411806
4.466		175532	134256
4.499		202915	169462
4.538		525107	615556
4.583		171392	160309
4.631		37602	33525

ASX73 1771

RT A	Compound A	Height A	Area A
4.675		53774	54591
4.712		315211	253385
4.734		400578	297935
4.762		513625	448972
4.828		44041	54040
4.878		417919	376980
4.903		228958	210018
4.965		4677	5014
4.99		20462	20782
5.036		82443	83369
5.092		123538	117196
5.128		67902	54743
5.159		178821	174895
5.206		7119	5725
5.249		105967	108829
5.288		24655	30447
5.338		20156	18147
5.38		148657	162449
5.451		13378	51512
5.464		5563	2145
5.489		17986	13106
5.51		13802	13515
5.584		146653	184084
5.672		1721	2958
5.698		38933	44277
5.762		9918	10852
5.803		9892	28533
5.932		5984	27916
5.979		38791	65882
6.061		1070	758
6.108		7708	9372
6.163		23275	26036
6.239		2096	1961
6.373		25885	152487
6.404		2599	1521
6.469		1772	477
6.485		2079	1234
6.517		2166	2083
6.563		48368	62859
6.647		9128	27405
6.719		5604	17369
6.748		2617	2807
6.807		12091	26306
6.874		3030	3556
6.933		2167	792
6.965		2285	2468
7.023		40464	48165
7.067		6172	5453
7.093		1801	813
7.196	DCB	3991511	5451835
7.316		3155	2134
7.335		2438	1782
7.397		1915	1159
7.448		2144	1513
7.495		2195	858
7.518		1107	1457
7.561		6757	9660
7.602		5281	5888
7.643		10522	11891
7.678		3168	7135
7.78		1397	973
7.85		2345	3240
7.89		1628	1012
7.899		2772	1324
7.923		1624	1018
7.986		1937	412

ASX73 1752

RT A	Compound A	Height A	Area A
8.009		1989	1089
8.069		2949	5062
8.091		3898	3143
8.135		1256	1921
8.255		8060	18193
8.315		2344	1326
8.349		1895	1269
8.388		2022	1843
8.442		2285	1187
8.487		4278	5755
8.529		2576	726
8.575		12837	25325
8.64		2114	700
8.672		1695	863

ASX73 1773

LANCASTER LABORATORIES

Sample Number: AR32X1224B AAAR32XAA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 4:21:36 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0024.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.509		8247	2652
2.542		91834	180120
2.621		245135	699402
2.65		201001	244801
2.672		159214	147975
2.7		132860	271530
2.733		2545026	2189186
2.805		99595	85800
2.845		25781	13965
2.872		132351	691840
2.957		57197	278439
2.979		45840	28890
3.018		797396	578769
3.067	TCX	149790200	105656700
3.108		1443499	1285326
3.174		36635	25303
3.199		81783	50107
3.239		4557112	3582235
3.271		28271	17640
3.303		4558717	4313424
3.359		16432060	11866100
3.416		440444	305116
3.444		30913	16797
3.476		932291	677978
3.509		134404	176224
3.573		5096610	2963326
3.586		1769849	770815
3.627		1048660	942994
3.651		476956	298672
3.677		1755343	1146798
3.703		7456847	5989604
3.738		240617	191256
3.787		2228843	1452499
3.804		937839	506155
3.86		4175303	2391740
3.872		9799072	5237566
3.91		8508175	7730149
3.994		8710913	6828428
4.026		4558981	3250805
4.055		5417988	4082378
4.076		1788342	1136327
4.137		63879	129140
4.174		4235894	3550678
4.203		2309022	1602869
4.227		2082157	1531253
4.264		845534	500610
4.281		5566570	3897048
4.316		46554	13210
4.332		1667161	1259685
4.378		372876	358619
4.405		3680986	2674764
4.429		7754844	5772802
4.459		7155288	5723245
4.483		257082	315471

ASX73 1774

RT B	Compound B	Height B	Area B
4.538		1467609	1500982
4.586		4243088	3815461
4.62		3657083	2893653
4.667		301609	253389
4.708		1432025	1842078
4.774		1895374	2871453
4.813		900213	740763
4.842		2068907	1905698
4.882		154071	243287
4.932		337985	274923
4.951		552272	440252
4.983		250843	191777
5.02		1495604	1393903
5.089		401946	462645
5.127		141690	134818
5.21		424323	802331
5.265		1432989	1345361
5.31		42514	22916
5.348		384242	377347
5.377		78995	50815
5.4		9492	3018
5.418		66513	60378
5.463		99100	119918
5.502		11749	7318
5.522		31610	15978
5.535		21353	14494
5.578		135525	130307
5.607		141406	304017
5.662		83696	83457
5.693		46942	64468
5.749		16435	4541
5.766		211088	169463
5.788		50007	31549
5.823		185122	368190
5.884		659734	2669059
6.01		90780	92876
6.032		156462	141891
6.073		26730	32756
6.11		294787	1586465
6.191		400400	453589
6.26		80783	221942
6.312		44048	57521
6.356		10118	9233
6.382		9720	3840
6.409		81308	125515
6.495		10891	5661
6.531		5832	4349
6.552		35430	39801
6.613		478321	509295
6.683		10725	17021
6.781	DCB	72986830	69564840
6.852		28448	28947
6.896		22924	69308
7.109		19282	32275
7.157		93771	127891
7.215		34921	32902
7.239		34919	30201
7.286		18673	12990
7.324		81761	99815
7.38		11392	3403
7.394		8552	4435
7.402		9797	8733
7.441		11248	10930
7.482		6094	4155
7.513		63084	78650
7.577		16752	20938

RT B	Compound B	Height B	Area B
7.635		12763	9321
7.687		7114	3560
7.717		7122	3634
7.763		88210	147714
7.817		8810	4895
7.85		12302	3344
7.923		7761	4393
7.955		52208	108108
8.03		101031	146095
8.072		10177	2699
8.102		9303	4282
8.121		8938	4365
8.154		14808	17125
8.203		59146	105004
8.264		8842	7160
8.311		10219	5428
8.345		14627	16573
8.418		13257	21698
8.527		11287	29955
8.575		10647	9190
8.632		13245	23664
8.659		6893	4320

AR32X1224B AAAR32XAA ICAL 1220399999

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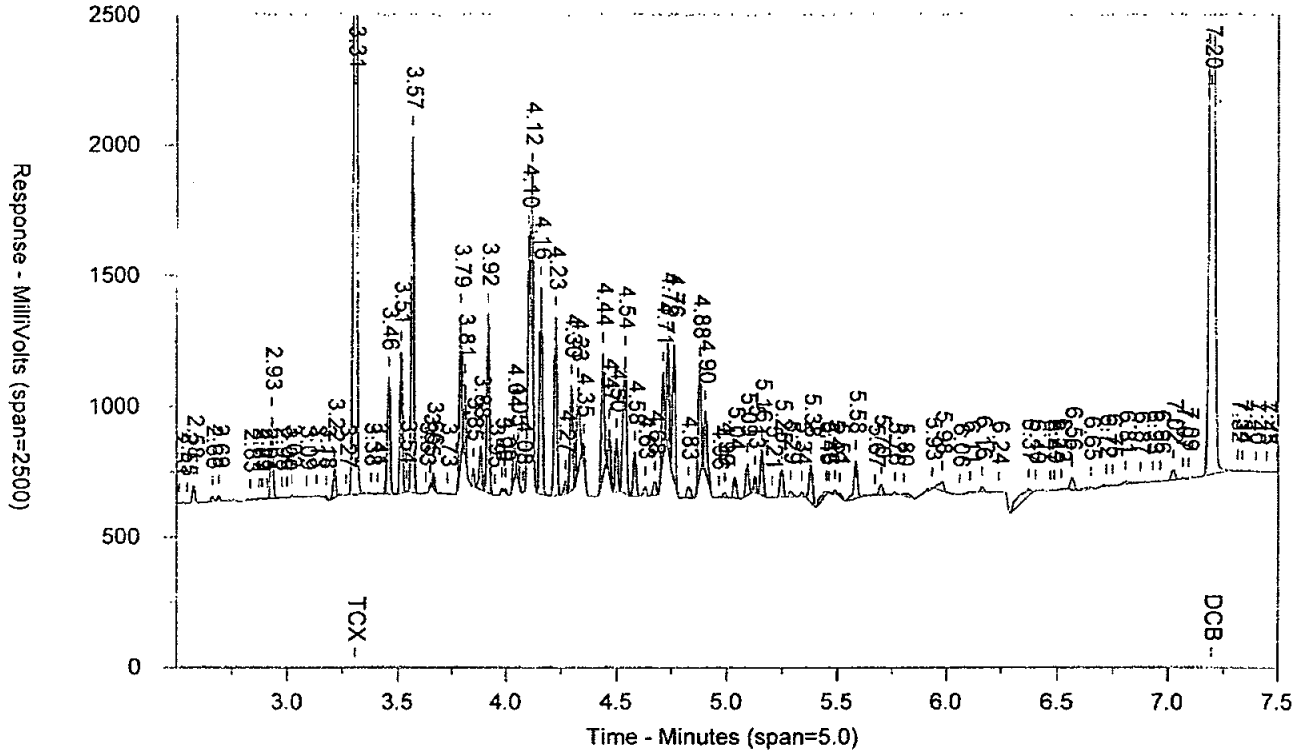

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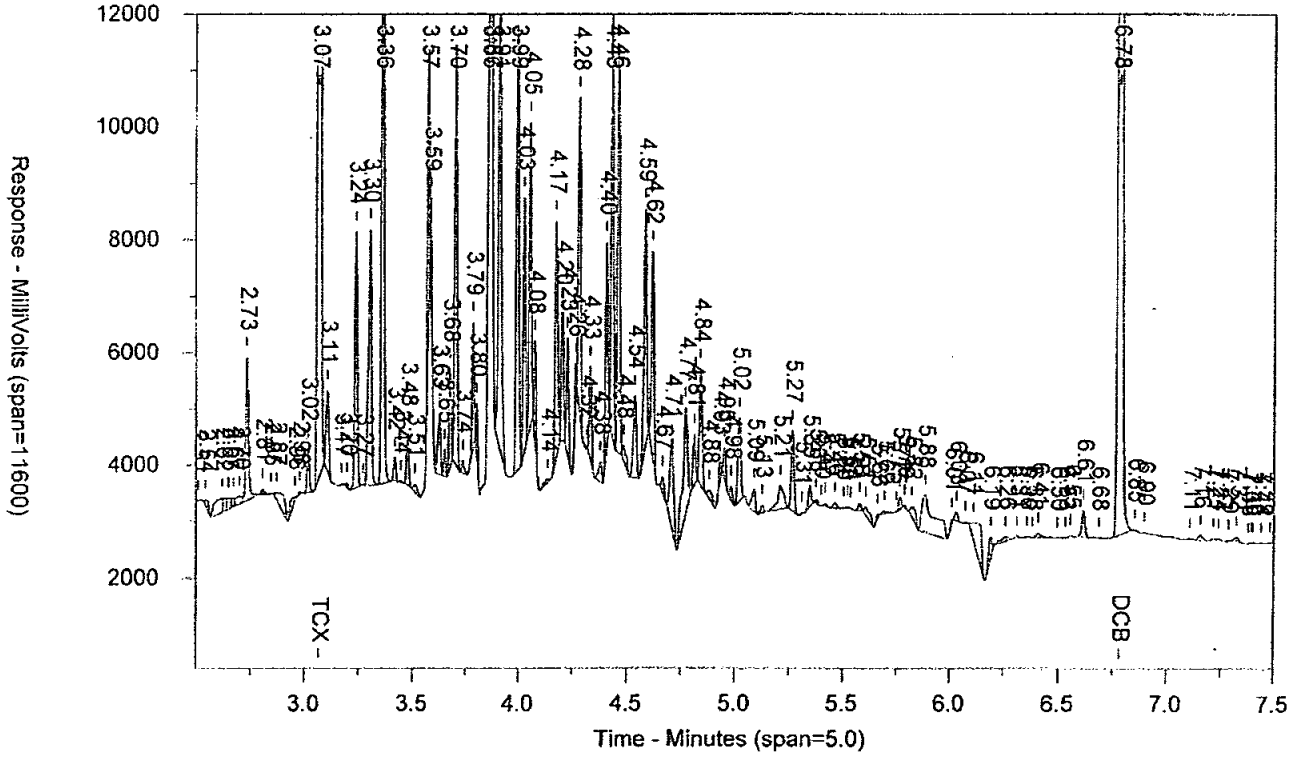

ASX73 1777

LANCASTER LABORATORIES

Sample Number: AR32X1224B AAAR32XAA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 4:21:36 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.306	10262890	40.33	TCX	3.067	149790200	41.509	TCX
7.196	3991511	39.69	DCB	6.781	72986830	40.603	DCB

Files:
Area File: 1p20205.0024.RAW
Area File: 1p20205B.0024.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 4:30:19 PM
File Reported On: 7/23/2012 at 4:30:26 PM

AR32X1224B AAAR32XAA ICAL 1220399999

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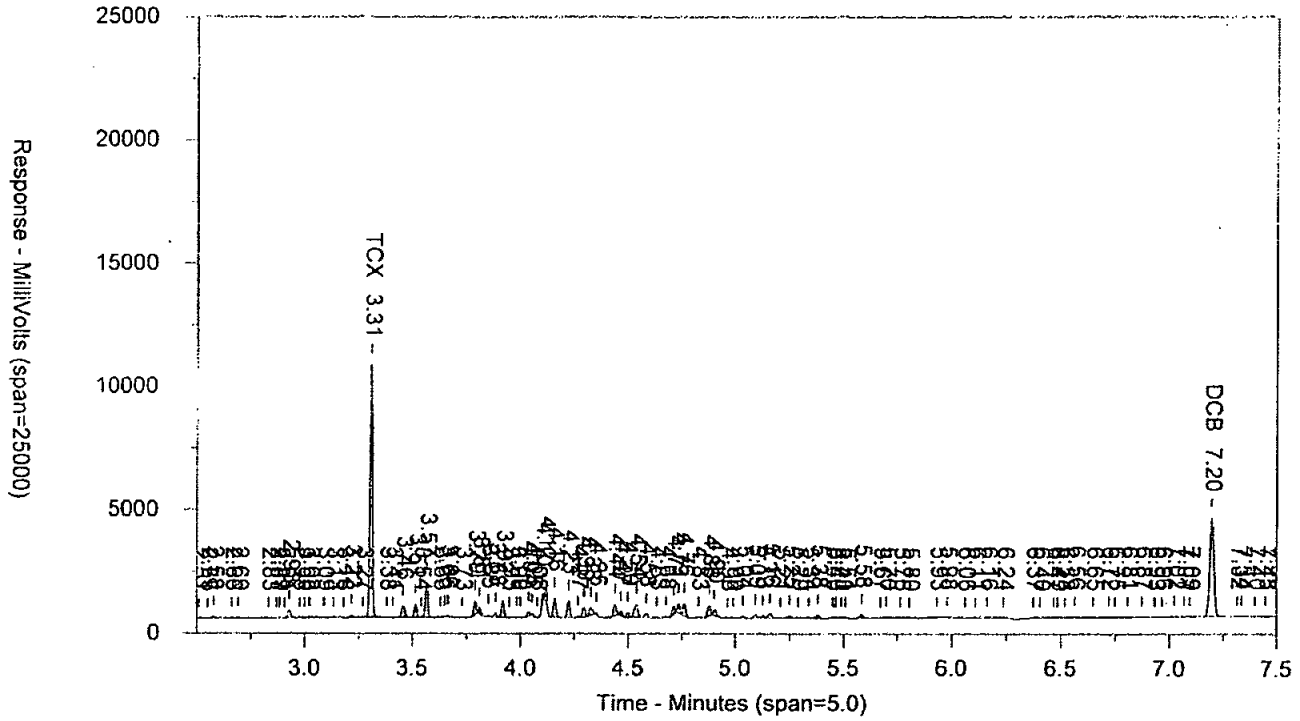

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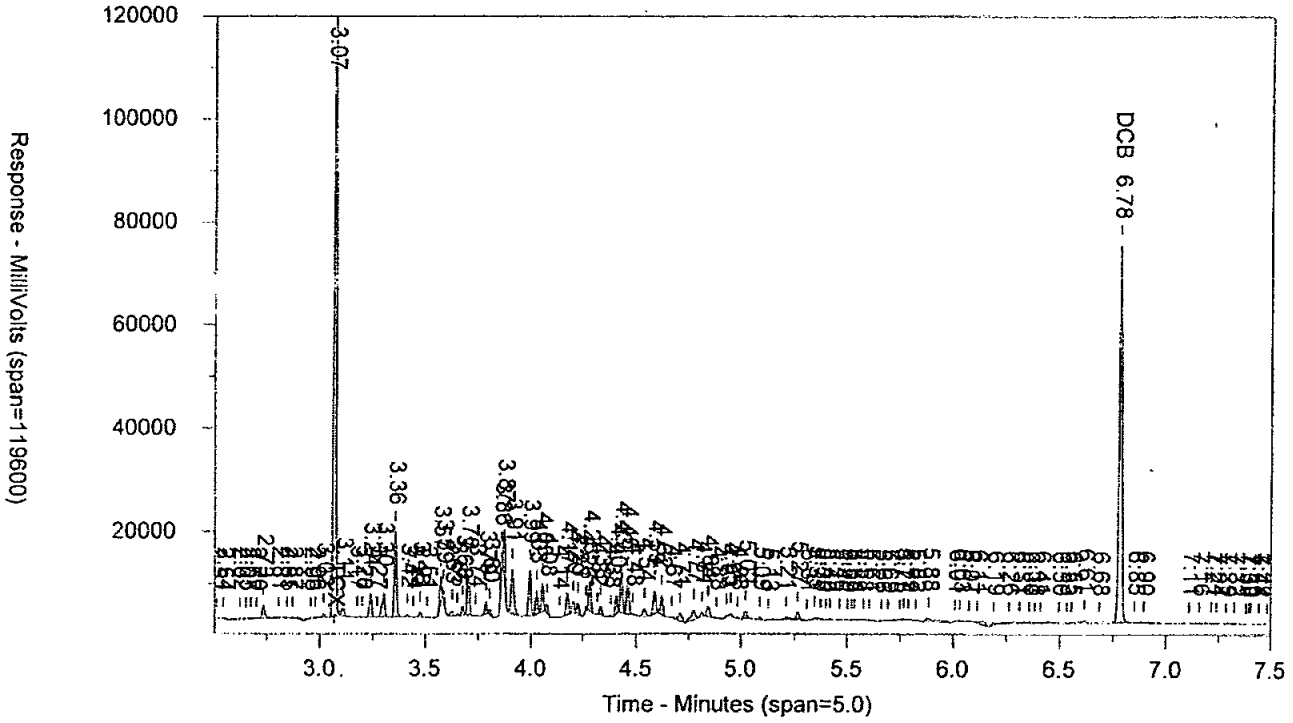

ASX73 1779

LANCASTER LABORATORIES

Sample Number: AR4231224A AAAR423AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 4:33:13 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0025.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.513		5854	4757
2.578		70237	59260
2.664		26247	21749
2.692		26290	21081
2.743		1825	768
2.803		5644	6966
2.869		2412	1647
2.931		14530	16246
3.031		3403	4066
3.078		4252	3165
3.136		15003	34730
3.217		7687	11055
3.307	TCX	10854550	8170260
3.367		1384	754
3.407		8568	8265
3.458		162622	155072
3.515		366559	294037
3.566		878819	682806
3.629		5518	4079
3.664		127047	123001
3.703		3876	4659
3.791		855178	619329
3.81		434772	267600
3.85		122619	84646
3.868		19394	8759
3.884		85095	52743
3.918		1048790	873837
3.954		6260	2863
3.982		16173	8990
3.999		27116	16377
4.038		254338	177398
4.055		127341	78293
4.105		486686	349039
4.118		914754	578079
4.16		1203158	1081065
4.227		1061419	965617
4.271		85124	62892
4.298		667463	569099
4.329		501958	486859
4.353		142759	90793
4.438		801029	694089
4.466		291838	223930
4.499		341299	285527
4.538		852735	1019133
4.584		288517	275436
4.631		66706	60205
4.676		99747	96984
4.713		514214	415846
4.735		668588	493703
4.762		849250	749348
4.83		81452	101623
4.88		699116	646282
4.904		353727	362970
4.964		12068	8835

ASX73 1780

RT A	Compound A	Height A	Area A
4.991		34454	30944
5.037		160446	167414
5.094		231482	230598
5.128		128080	110130
5.159		353865	338505
5.202		2898	1528
5.25		190901	197245
5.287		26598	41568
5.34		46867	44852
5.381		301958	320610
5.466		32144	114788
5.491		23493	16448
5.511		17295	15140
5.559		4342	2993
5.585		273734	281228
5.63		9752	8961
5.667		5298	6594
5.701		85103	200592
5.912		30827	44786
5.977		34833	60769
6.088		2209	620
6.107		21891	27115
6.164		6585	8004
6.212		2121	706
6.357		4479	70202
6.371		6817	8682
6.543		1990	5061
6.565		45240	49905
6.632		5645	10405
6.715		5415	10676
6.736		2744	656
6.808		2877	1604
6.818		3631	2564
6.87		6800	13034
6.932		1899	792
6.969		1381	640
7.025		42636	52252
7.119		2155	1258
7.198	DCB	4134902	5638007
7.319		2952	1403
7.478		2398	1410
7.519		2435	725
7.55		1865	464
7.6		5510	5049
7.643		13026	17605
7.703		2811	1512
7.778		3198	3159
7.838		1392	1560
7.85		1774	519
7.953		2395	3872
8.058		2214	6049
8.088		1618	2051
8.102		1581	641
8.127		3811	7558
8.163		2900	2016
8.195		2082	629
8.22		1285	604
8.246		8975	18087
8.339		2898	1375
8.372		1805	1230
8.402		1791	1348
8.42		2480	1307
8.479		2276	1382
8.526		2364	751
8.555		8772	17143
8.63		1904	1226

ASX73 1781

RT A	Compound A	Height A	Area A
8.675		16614	35693

ASX73 1782

LANCASTER LABORATORIES

Sample Number: AR4231224A AAAR423AA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 4:33:13 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0025.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.511		15876	9335
2.54		107822	248534
2.613		352192	996773
2.636		320029	824378
2.694		210120	318878
2.733		234848	402195
2.787		15355	46509
2.804		31691	28367
2.833		13110	3650
2.847		16000	10130
2.875		150439	533001
2.957		121124	324197
2.978		175563	210465
3.031		52179	39639
3.067	TCX	154698900	108612100
3.109		778774	610381
3.172		28280	15149
3.198		132999	115096
3.22		18241	6044
3.239		1268443	959246
3.273		23590	28042
3.301		2500831	2843678
3.358		9958607	7177684
3.417		441606	295925
3.444		53140	36731
3.477		1311054	1019791
3.509		156895	201303
3.573		7770053	4444123
3.586		2634121	1194631
3.628		1546668	1120871
3.652		670528	421430
3.678		1035170	633838
3.703		11503900	9412487
3.739		349512	260701
3.787		3294439	2143748
3.804		1206243	659728
3.861		6322434	3708300
3.873		16064820	8382073
3.895		208017	83652
3.91		13430280	10562110
3.994		13865970	10763630
4.027		8133619	5832437
4.055		9694449	7250088
4.077		3064790	1916326
4.116		108972	94340
4.175		7500666	6396384
4.204		4183236	2737703
4.227		3824595	2682895
4.264		1548748	896873
4.282		9912035	7117238
4.332		3395057	3376335
4.378		660687	589803
4.405		6321424	4618998
4.43		13905200	10405310

RT B	Compound B	Height B	Area B
4.459		12771310	9999251
4.484		519048	664274
4.539		3022301	3057785
4.587		7168437	6689587
4.621		6634245	5227756
4.668		525699	418870
4.708		2381435	2795601
4.774		3538029	4452899
4.813		1832494	1506612
4.843		4469684	3892643
4.883		174060	249797
4.932		553219	449905
4.954		1076799	892434
4.982		527036	415103
5.021		3477288	3582711
5.092		588446	600965
5.129		303187	277768
5.189		24506	23919
5.211		537351	671748
5.266		3172768	2885266
5.307		58074	31347
5.347		925428	1231548
5.402		98889	112487
5.463		97206	103458
5.493		31385	26218
5.517		49107	100538
5.578		31557	23409
5.607		367400	540794
5.677		35548	138455
5.692		25817	33511
5.749		184308	137366
5.791		44721	36362
5.833		310126	511510
5.883		570044	1021068
5.93		41508	333152
6.029		168324	422959
6.073		19982	22234
6.131		619581	1586071
6.193		419432	470981
6.261		26709	58899
6.279		17144	14518
6.312		10181	2521
6.363		14061	12894
6.388		8687	2409
6.409		75259	121314
6.491		15248	21363
6.554		44013	51692
6.615		486997	499511
6.669		13977	11680
6.783	DCB	69644200	72167680
7.017		15680	37763
7.125		10087	4920
7.159		72531	81820
7.217		42910	44416
7.24		32980	31634
7.294		12907	14114
7.322		84440	114480
7.397		15186	10730
7.438		6442	3831
7.515		73297	122372
7.563		13584	26929
7.621		12483	6213
7.697		8271	7501
7.719		10835	4677
7.763		87435	127465
7.841		9493	4233

RT B	Compound B	Height B	Area B
7.896		11434	16474
7.951		53020	85398
8.031		103602	160251
8.12		13881	8798
8.155		7928	14143
8.201		18952	29862
8.238		12543	12093
8.29		9851	1733
8.315		9141	6823
8.333		5066	3270
8.491		19276	269642
8.513		12805	6323
8.55		9763	5315
8.569		8758	5213
8.603		11959	10398
8.68		10618	12304

AR4231224A AAAR423AA ICAL 1220399999

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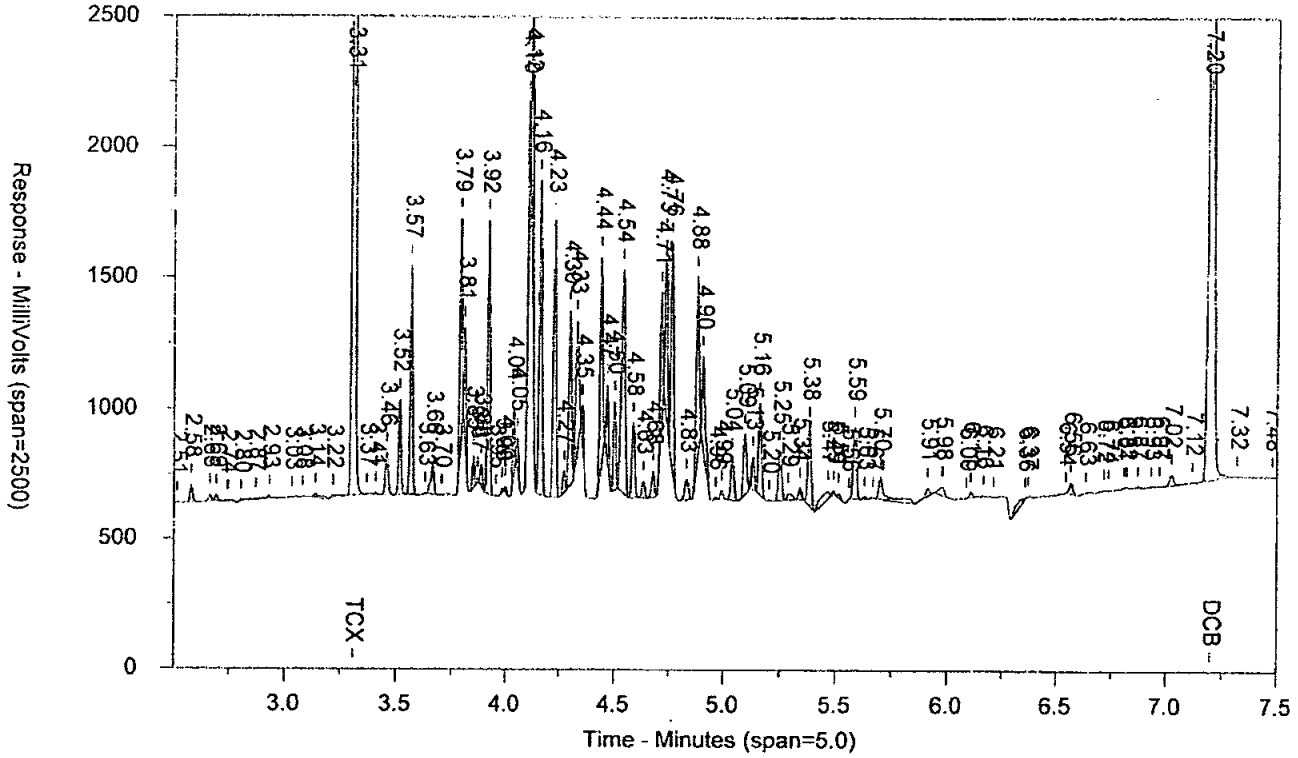

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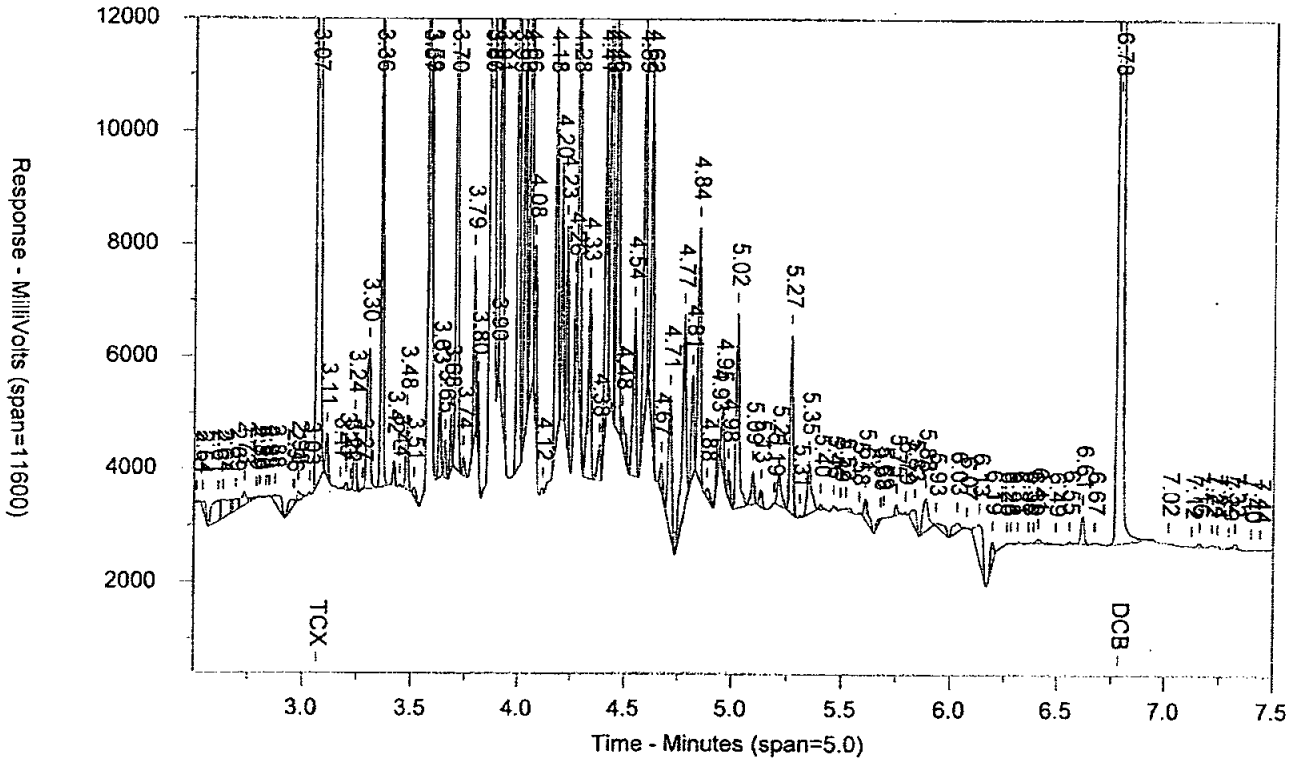

ASX73 1786

LANCASTER LABORATORIES

Sample Number: AR4231224A AAAR423AA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 4:33:13 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	10854550	42.655	TCX	3.067	154698900	42.869	TCX
7.198	4134902	41.116	DCB	6.783	69644200	38.744	DCB

Files:
Area File: 1p20205.0025.RAW
Area File: 1p20205B.0025.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 4:41:55 PM
File Reported On: 7/23/2012 at 4:42:02 PM

AR4231224A AAAR423AA ICAL 1220399999

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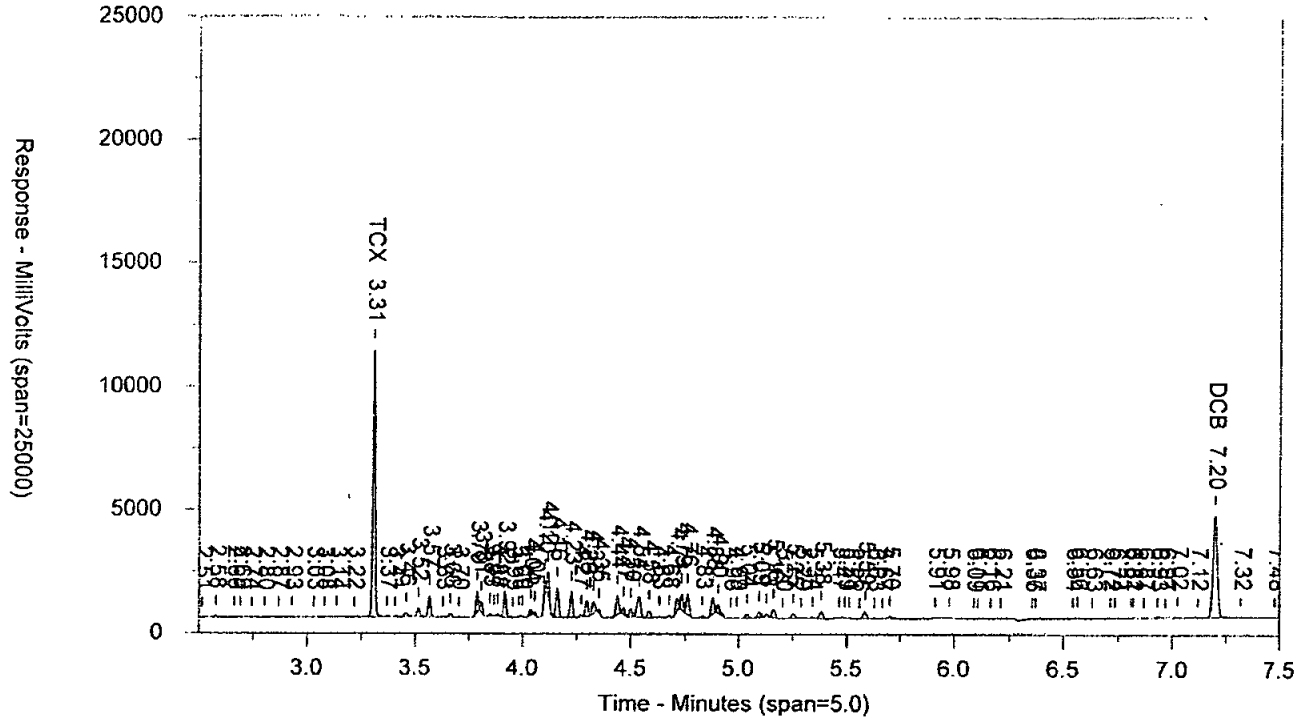

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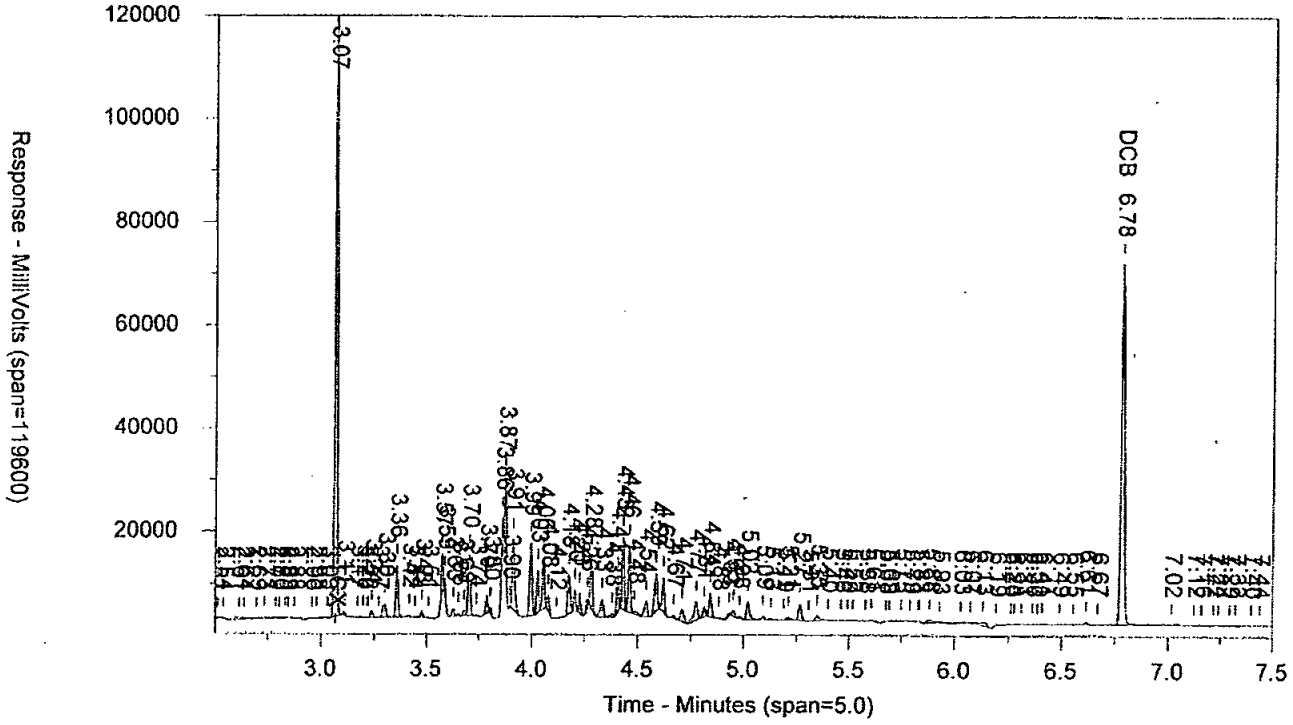

ASX73 1789

LANCASTER LABORATORIES

Sample Number: AR16XX1224B AAAR16XAA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 4:44:42 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0026.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.512		8731	6588
2.541		2761	2410
2.559		3727	1897
2.577		16151	13592
2.664		53165	40939
2.691		7249	6123
2.733		2209	1020
2.774		2309	2361
2.85		1909	3589
2.884		3774	5578
2.931		19278	16129
2.981		3962	7198
3.046		3312	6483
3.134		17538	55308
3.214		14341	27152
3.242		2008	1833
3.307	TCX	2644085	2075613
3.407		38578	36179
3.457		188499	180151
3.517		291564	226552
3.567		1112705	870181
3.616		4382	4808
3.665		163684	133037
3.702		5489	4706
3.729		3816	4064
3.791		1061506	750889
3.81		503975	321569
3.85		149900	104005
3.869		26490	11539
3.884		104003	65165
3.919		1290677	1104278
3.957		7014	4502
3.976		2933	2037
4		48760	39416
4.038		321184	223995
4.056		164553	99336
4.106		590842	436080
4.118		1075853	689843
4.16		1454793	1357662
4.227		1275153	1204298
4.272		94855	69347
4.298		819849	702006
4.33		609700	580650
4.354		172722	105830
4.439		952023	842715
4.467		351507	273504
4.5		403088	346367
4.539		1029870	1184269
4.584		350635	330696
4.632		57184	54117
4.677		72554	70812
4.714		374253	306388
4.735		281932	202139
4.763		302147	257791

ASX73 1789

RT A	Compound A	Height A	Area A
4.832		15516	17234
4.879		109170	103706
4.904		19197	16200
5.031		2596	2031
5.097		5465	5842
5.147		16206	23373
5.265		1476	2528
5.313		2215	2366
5.374		8997	17085
5.45		25144	57328
5.537		2821	1337
5.559		4289	2459
5.585		5593	4394
5.626		1953	3212
5.675		1930	2935
5.706		3565	3014
5.761		1867	1489
5.776		3215	2923
5.827		2346	1327
5.874		2659	2240
5.914		3484	2539
5.972		823	5814
5.978		9736	8081
6.012		18565	36997
6.109		2592	3126
6.213		1946	1401
6.363		2980	91271
6.381		2097	1656
6.393		1629	717
6.421		1605	942
6.445		2730	2386
6.495		2218	729
6.527		2692	1992
6.565		14437	16440
6.657		2254	4940
6.717		4177	8853
6.825		7394	16851
6.874		2197	1343
7.029		10104	12196
7.126		1443	891
7.145		1726	1428
7.201	DCB	1130964	1547340
7.31		1814	406
7.374		997	1427
7.41		18873	31718
7.537		2591	2907
7.566		7158	10306
7.612		2508	2315
7.645		11835	15278
7.792		3737	6936
7.898		2204	4509
7.932		1857	783
8.022		2160	1238
8.061		2356	2343
8.098		1537	755
8.176		2406	1270
8.251		6198	21067
8.352		3190	3940
8.371		2589	1122
8.415		1920	2903
8.435		2753	1413
8.486		2408	1944
8.558		2847	3524
8.611		2584	1628
8.66		3862	5849

ASX73 1798

LANCASTER LABORATORIES

Sample Number: AR16XX1224B AAAR16XAA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 4:44:42 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0026.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.52		30700	34994
2.548		25294	13838
2.571		60540	56139
2.632		35602	67131
2.671		23573	14200
2.691		36037	18103
2.7		35267	24535
2.734		153666	132447
2.846		25998	19938
2.887		239563	790062
2.947		214977	401125
2.979		142455	180952
3.031		16432	8961
3.067	TCX	36083200	24130030
3.109		1069953	927010
3.162		17720	4205
3.172		25452	17830
3.197		147235	127227
3.24		2220252	1939681
3.303		2760079	2537322
3.359		12361550	9014106
3.417		111797	97264
3.447		21180	8442
3.477		1658295	1246664
3.51		92618	64932
3.537		52291	41272
3.574		10117110	5881068
3.586		3507939	1548042
3.628		1978104	1449457
3.653		846669	541247
3.679		1251694	787916
3.705		14840350	12170760
3.739		475880	368000
3.788		4079203	2597058
3.806		2166336	1282847
3.861		10013510	5655752
3.874		20248470	11012460
3.896		226551	107605
3.911		16985720	13884200
3.996		18888780	14161590
4.028		10851600	7522143
4.056		13171290	9462835
4.079		4090215	2558300
4.142		36076	19441
4.176		11501070	9349436
4.205		5398643	3547435
4.228		4981245	3397919
4.265		2007385	1180293
4.283		12898740	8970762
4.333		4457489	4036590
4.381		593782	511541
4.406		3539782	2537884
4.432		7431697	5483891
4.46		3967083	3005146

ASX73 1791

RT B	Compound B	Height B	Area B
4.485		568137	451870
4.539		374747	421605
4.587		499453	394023
4.605		198835	114548
4.621		158476	88431
4.65		45429	77485
4.694		12775	3623
4.709		258356	454693
4.761		68360	247689
4.773		56655	48326
4.82		26210	23201
4.84		92648	98199
4.882		115169	196312
4.93		20458	28684
4.946		50890	68153
5.02		134497	196790
5.081		190296	430848
5.195		45217	51327
5.226		183114	214489
5.269		119413	181627
5.372		49370	105311
5.421		15567	12034
5.465		64007	76750
5.496		22249	34410
5.571		15886	5601
5.591		11002	2829
5.631		21817	25731
5.663		23567	17772
5.697		21918	14881
5.725		18751	14962
5.79		304671	333505
5.825		39592	28927
5.885		395418	629180
5.973		240031	327343
6.008		167929	354961
6.243		44695	812295
6.26		14838	6542
6.278		17616	15260
6.315		14638	10889
6.337		15408	3173
6.364		8466	5873
6.378		16314	6695
6.402		10693	3868
6.428		12060	13007
6.49		19358	25199
6.553		36731	39898
6.616		133572	147734
6.7		16114	20722
6.784	DCB	16473530	16863180
7.101		8277	2267
7.113		9619	4591
7.16		20610	30618
7.222		7403	6352
7.245		115509	141917
7.324		94993	169547
7.378		6924	3029
7.395		9038	2613
7.466		8004	3270
7.488		4343	2854
7.517		86873	115812
7.561		10448	2912
7.655		5598	2962
7.689		6440	6656
7.728		5823	3210
7.77		26910	46901
7.808		15190	7324

ASX73 1792

RT B	Compound B	Height B	Area B
7.875		10338	2945
7.915		9810	7470
7.941		9843	3049
8.032		32668	50930
8.081		5937	2271
8.093		10837	6507
8.145		6798	4747
8.189		12286	10924
8.203		13147	8469
8.269		10480	6254
8.285		10623	4737
8.302		10716	5117
8.334		6704	5599
8.341		11716	3259
8.353		9913	7553
8.374		8918	3975
8.409		7052	3588
8.437		9328	6508
8.482		8307	5380
8.527		11633	14415
8.555		9165	5444
8.592		8561	4310
8.625		9201	7820

AR16XX1224B AAAR16XAA ICAL 1220399999

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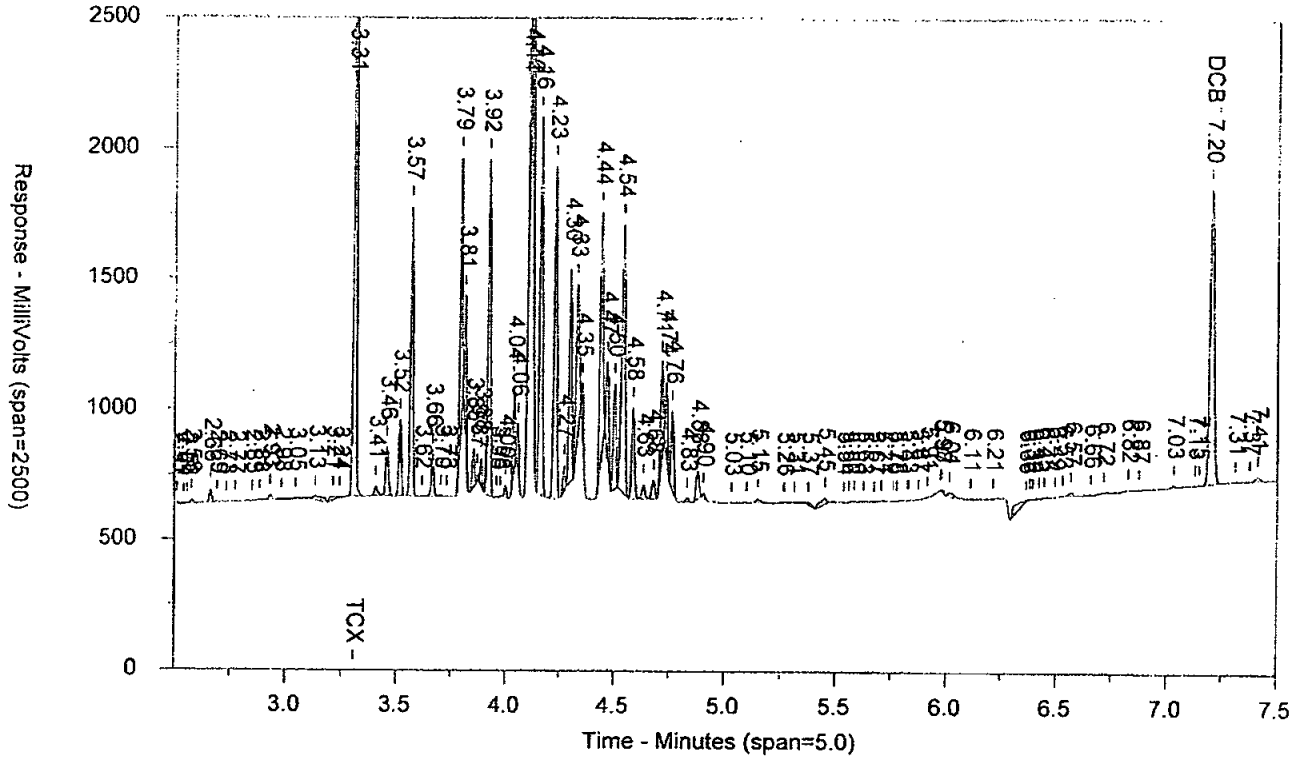

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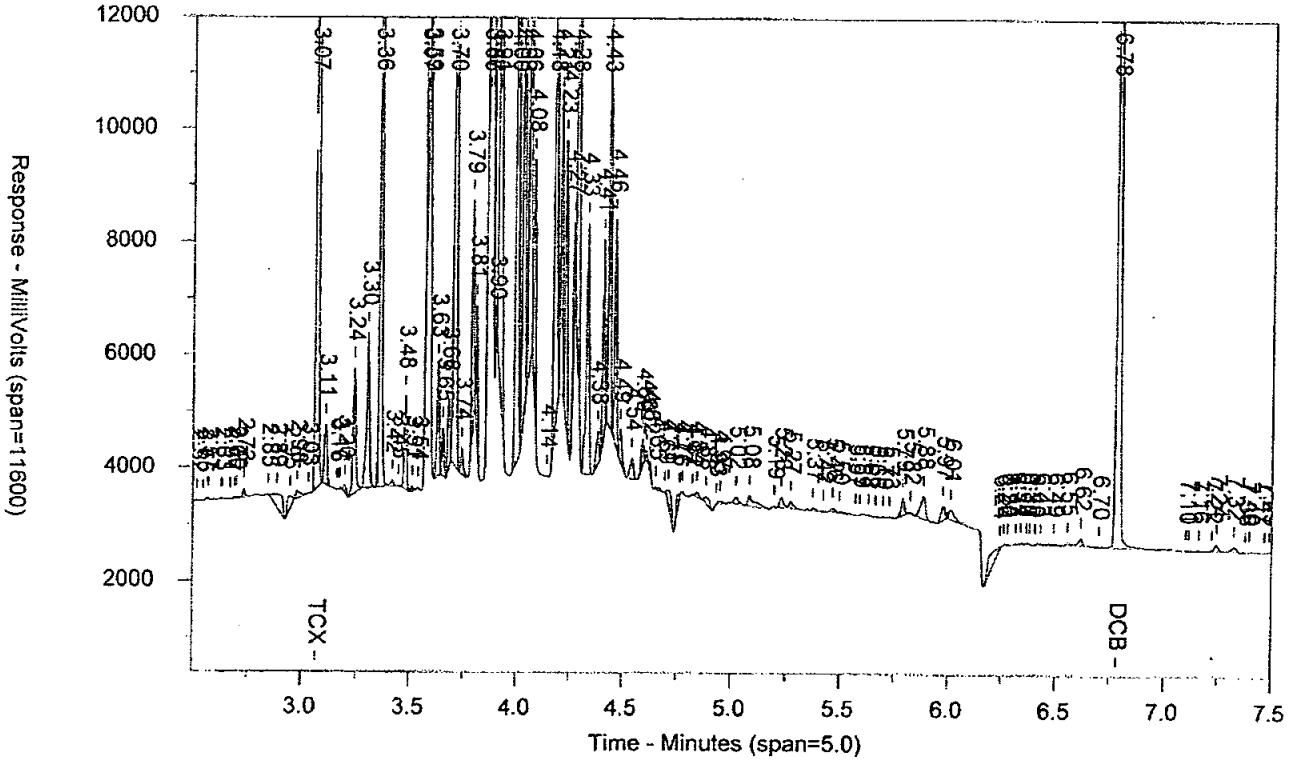

ASX73 1794

LANCASTER LABORATORIES

Sample Number: AR16XX1224B AAAR16XAA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 4:44:42 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	2644085	10.39	TCX	3.067	36083200	9.999	TCX
7.201	1130964	11.246	DCB	6.784	16473530	9.164	DCB

Files:
Area File: 1p20205.0026.RAW
Area File: 1p20205B.0026.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 4:53:24 PM
File Reported On: 7/23/2012 at 4:53:30 PM

AR16XX1224B AAAR16XAA ICAL 1220399999

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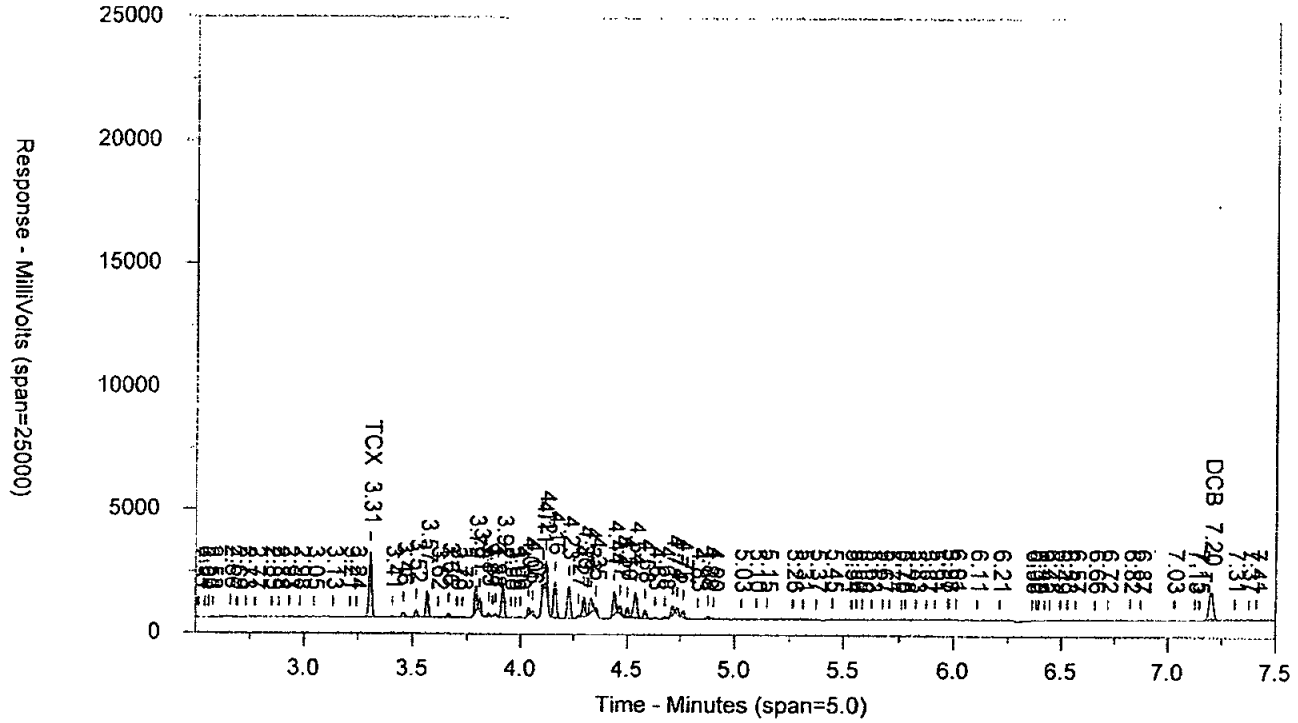

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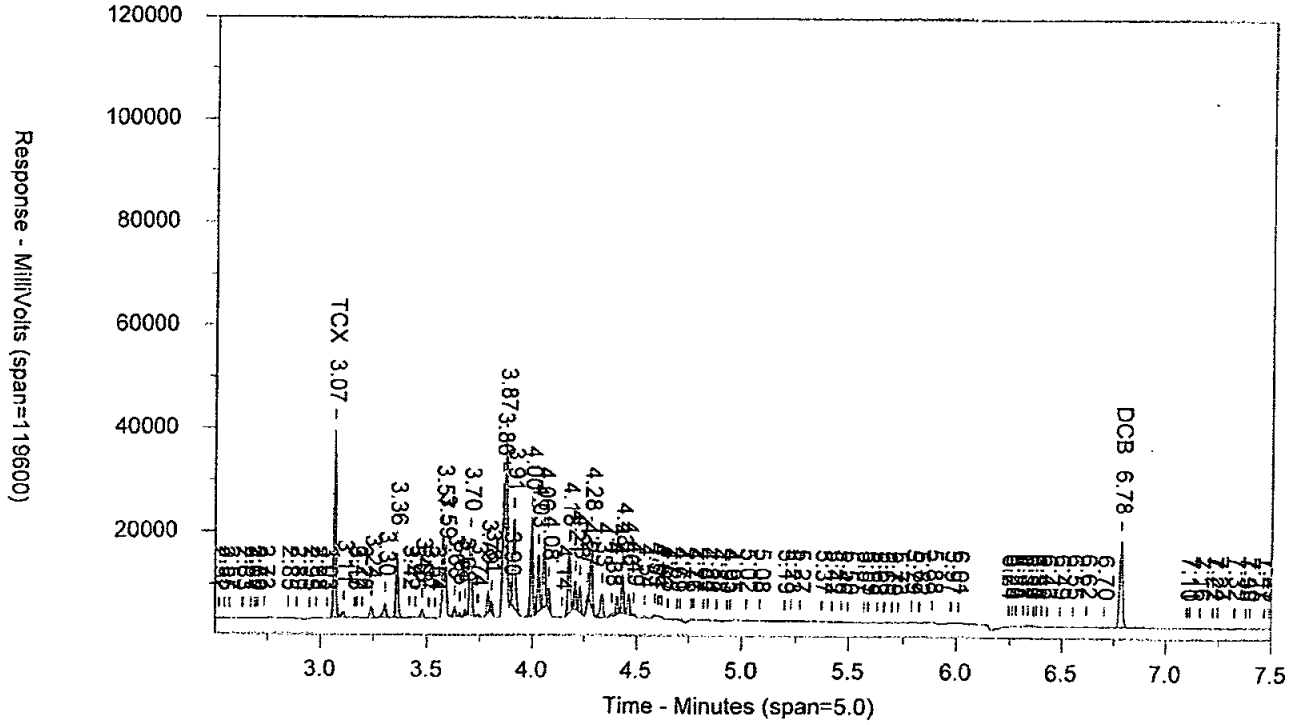

ASX73 1796

LANCASTER LABORATORIES

Sample Number: MD16X1224B AAMD16XAA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 4:56:07 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0027.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.514		148283	112930
2.555		15260	17995
2.594		67261	50678
2.62		29709	24101
2.646		31786	21970
2.664		70091	58960
2.688		4465	2379
2.707		6348	3612
2.727		26203	23256
2.775		6719	11030
2.829		3291	4541
2.854		13204	12885
2.889		2877	1870
2.917		4422	6780
2.93		6324	3298
2.956		10618	8179
2.975		5831	3856
2.999		5104	2629
3.018		7067	3883
3.036		7306	9598
3.076		149987	123933
3.113		23129	18646
3.138		18788	75314
3.204		12617	13810
3.228		6508	9305
3.268		12354	11705
3.307	TCX	296720	211168
3.331		75428	59831
3.382		3415	2778
3.405		8000	5997
3.457		10900	9905
3.48		3450	1668
3.496		3910	1800
3.517		12676	7879
3.536		9333	6517
3.566		90031	70031
3.633		3702	2790
3.653		18264	28642
3.726		4053	2495
3.738		6312	6865
3.79		72072	51477
3.81		38474	23183
3.846		10622	9065
3.866		3053	1242
3.884		7664	4994
3.918		76685	68085
3.971		5175	3281
4.002		10905	9746
4.038		18101	11853
4.056		9039	5650
4.078		8456	4768
4.105		45643	28481
4.118		88839	54536
4.16		105829	94836

ASX73 1797

RT A	Compound A	Height A	Area A
4.227		93635	90405
4.274		6705	6794
4.298		58222	47376
4.329		33367	22526
4.356		35600	31035
4.439		69175	57633
4.467		24451	18742
4.501		24260	20602
4.538		66003	77632
4.584		21381	28454
4.635		4712	3022
4.656		10008	21839
4.714		101458	93357
4.734		13050	10456
4.765		21748	17137
4.788		6985	11449
4.834		11932	9826
4.882		70855	85183
4.953		3678	6588
5.029		3991	5348
5.093		8051	5702
5.113		17007	12885
5.146		109827	130893
5.208		66063	90068
5.248		12945	10173
5.289		143833	165685
5.377		19221	23015
5.44		40916	76139
5.491		142186	130417
5.512		20604	12962
5.546		32416	33019
5.585		76688	86215
5.665		15822	16996
5.701		176781	208806
5.763		97866	97186
5.805		59869	62789
5.872		2537	1850
5.928		103127	132711
5.985		30864	23285
6.021		129923	327483
6.108		32921	29653
6.164		219710	233866
6.235		1914	964
6.264		35293	55464
6.373		139816	276889
6.423		38506	70826
6.465		1376	717
6.528		1845	2623
6.563		12457	19806
6.621		3453	3090
6.65		23428	23078
6.712		4064	5440
6.742		1795	531
6.767		6909	7238
6.805		56471	66874
6.852		3126	3189
6.908		1184	588
6.953		1508	1451
6.978		2188	1073
7.027		17254	20909
7.064		2376	1161
7.084		2051	2356
7.143		2826	3848
7.199	DCB	142295	182088
7.277		1876	1377
7.3		3502	4179

ASX73 1798

RT A	Compound A	Height A	Area A
7.376		1721	1345
7.406		48139	66459
7.494		2031	2324
7.537		12076	17199
7.59		2010	637
7.607		1902	831
7.645		12927	20451
7.697		2408	2206
7.72		1489	717
7.77		2202	1518
7.803		1602	876
7.908		2320	5800
7.977		2310	587
8.044		1347	830
8.084		2306	2043
8.123		1948	940
8.171		1077	1319
8.215		902	1269
8.229		1949	1260
8.273		3028	1368
8.291		1521	750
8.379		1790	2871
8.48		2210	4477
8.509		1548	750
8.576		1953	2392
8.609		1909	856
8.625		2632	1278
8.649		2463	2080
8.675		4251	2401

ASX73 1799

LANCASTER LABORATORIES

Sample Number: MD16X1224B AAMD16XAA ICAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 4:56:07 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0027.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.503		61232	26188
2.525		174226	97251
2.547		163338	135950
2.571		176833	139355
2.592		218058	250847
2.626		375960	507347
2.67		251421	325311
2.7		132637	113151
2.731		228937	424774
2.764		20208	5469
2.779		34041	18086
2.805		10100	12540
2.828		78289	82297
2.848		56711	25457
2.861		55832	26180
2.881		35814	16587
2.903		308196	404263
2.942		590699	953266
2.983		97326	87032
2.998		9920	3755
3.027		1373584	986640
3.067	TCX	3289009	2349738
3.108		100288	83975
3.139		250281	223067
3.196		932294	1005088
3.238		99275	56375
3.265		53522	39476
3.284		22387	6943
3.303		171767	106862
3.324		95979	100833
3.359		756690	573124
3.414		110564	89726
3.45		52427	47592
3.479		341639	417194
3.512		236686	192126
3.537		138928	108681
3.574		630046	364655
3.586		179276	82339
3.63		146220	115753
3.653		80382	65057
3.683		71290	53117
3.704		875045	706241
3.728		51883	32739
3.752		166070	159189
3.787		536271	516460
3.843		17436	38963
3.861		486405	313820
3.873		959317	550667
3.911		997335	855094
3.956		24412	16400
3.969		45463	22121
3.995		907109	775392
4.028		636289	421151
4.056		706433	555399

ASX73 1880

RT B	Compound B	Height B	Area B
4.077		194923	141763
4.117		20562	10691
4.129		28994	23029
4.171		268490	177729
4.206		231356	185651
4.225		254583	181700
4.245		133479	62606
4.265		86509	41361
4.283		773451	709362
4.333		461644	693561
4.379		51479	38943
4.406		200547	132258
4.431		816885	599857
4.454		457043	406971
4.498		125176	110712
4.54		792114	870044
4.58		18445	13586
4.591		88618	95062
4.645		228631	2182067
4.775		505232	1441596
4.855		830608	1363306
4.887		561157	738505
4.944		1819756	1940758
4.981		58630	40374
4.998		45039	23274
5.021		99809	69356
5.046		417239	386560
5.093		2183209	3739167
5.211		1742227	1995325
5.275		205808	197726
5.307		473189	422472
5.347		1682769	1633719
5.379		1059945	853302
5.419		719180	650863
5.469		64692	90254
5.527		253740	280613
5.58		1291724	1205380
5.608		142646	112764
5.655		712977	685197
5.692		267765	202639
5.713		135889	92922
5.767		2767203	2824649
5.814		69119	79250
5.852		31396	24081
5.883		352656	437437
5.983		1529997	3160826
6.032		1786450	1792313
6.23		139436	805098
6.26		32489	35948
6.283		9182	4691
6.31		277748	306496
6.357		27411	42341
6.409		645695	668308
6.502		53305	65936
6.555		28578	25068
6.614		226360	265502
6.67		16900	6866
6.704		15238	18649
6.783	DCB	1858001	1873288
6.884		37961	46309
7.014		9001	2493
7.036		35675	54103
7.095		7206	3470
7.111		19273	21131
7.188		9045	5598
7.242		314364	391421

RT B	Compound B	Height B	Area B
7.325		87949	141433
7.4		124135	187918
7.518		99605	157150
7.586		11880	12024
7.68		8937	6184
7.701		5096	2390
7.729		8060	2666
7.786		9830	4513
7.825		13312	8713
7.858		9813	8645
7.913		7323	1898
7.968		10359	9215
7.992		9597	5033
8.105		9043	4879
8.2		8958	7312
8.228		12073	3622
8.282		7897	3231
8.304		11395	8199
8.35		12553	14576
8.412		7127	3267
8.445		9365	3437
8.468		5722	3950
8.493		7123	2160
8.54		10858	7960
8.546		11817	4017
8.59		9950	7385
8.621		13190	15731
8.663		8632	7563

ASX73 1882

MD16X1224B AAMD16XAA ICAL 1220399999

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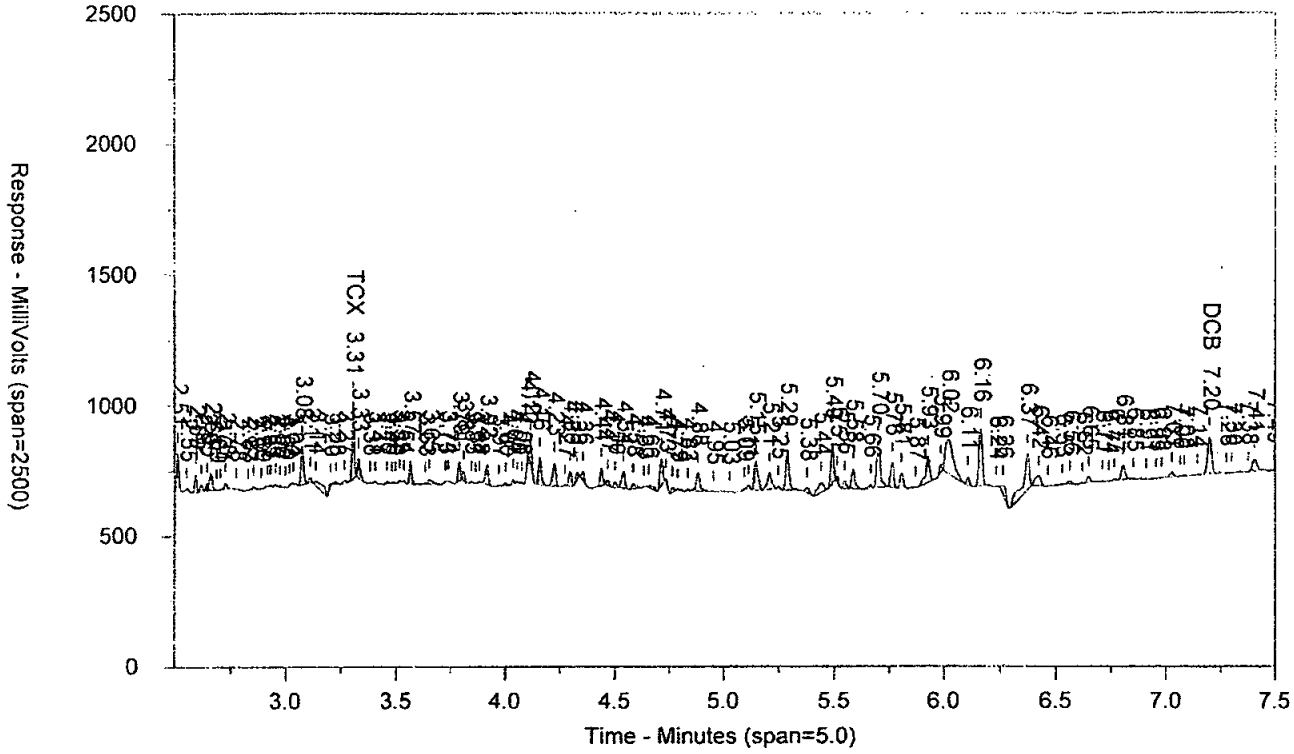

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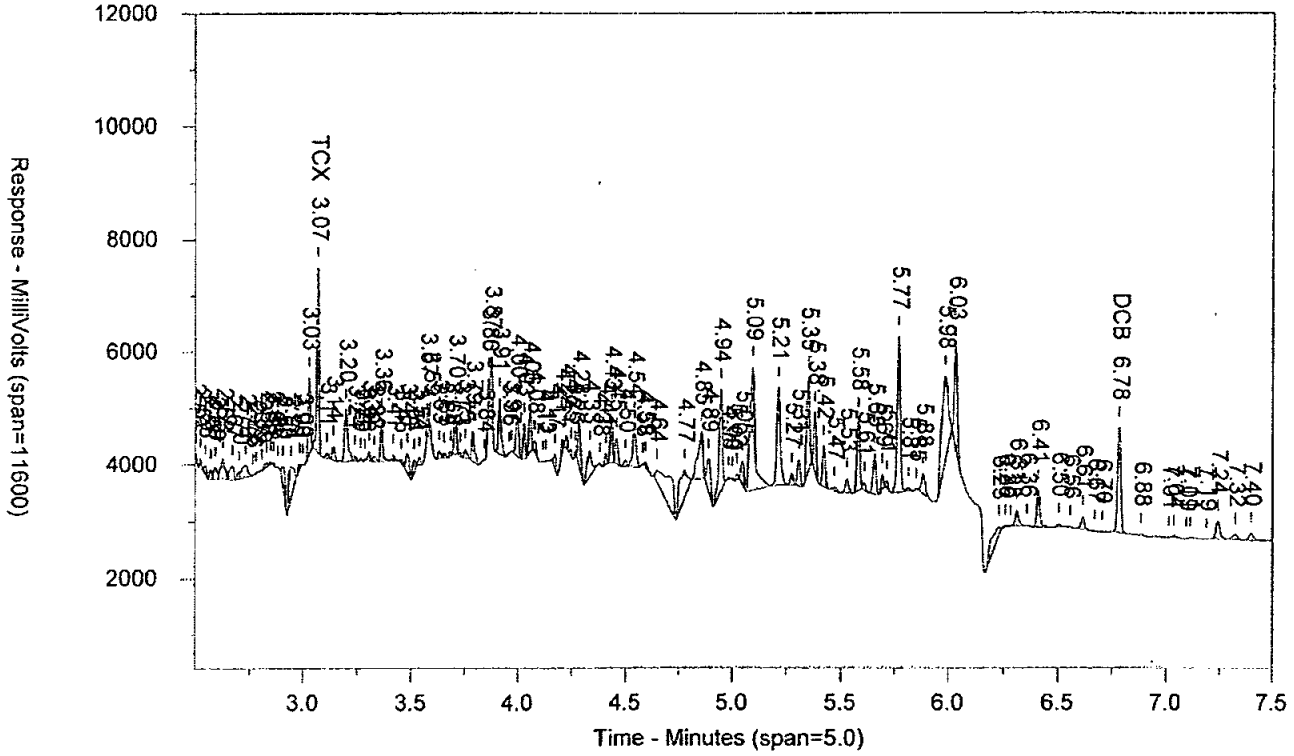

ASX73 1803

LANCASTER LABORATORIES

Sample Number: MD16X1224B AAMD16XAA ICAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 4:56:07 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	296720	1.166	TCX	3.067	3289009	.911	TCX
7.199	142295	1.415	DCB	6.783	1858001	1.034	DCB

Files:
Area File: 1p20205.0027.RAW
Area File: 1p20205B.0027.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 5:04:49 PM
File Reported On: 7/23/2012 at 5:04:58 PM

ASX73 1804

MD16X1224B AAMD16XAA ICAL 1220399999

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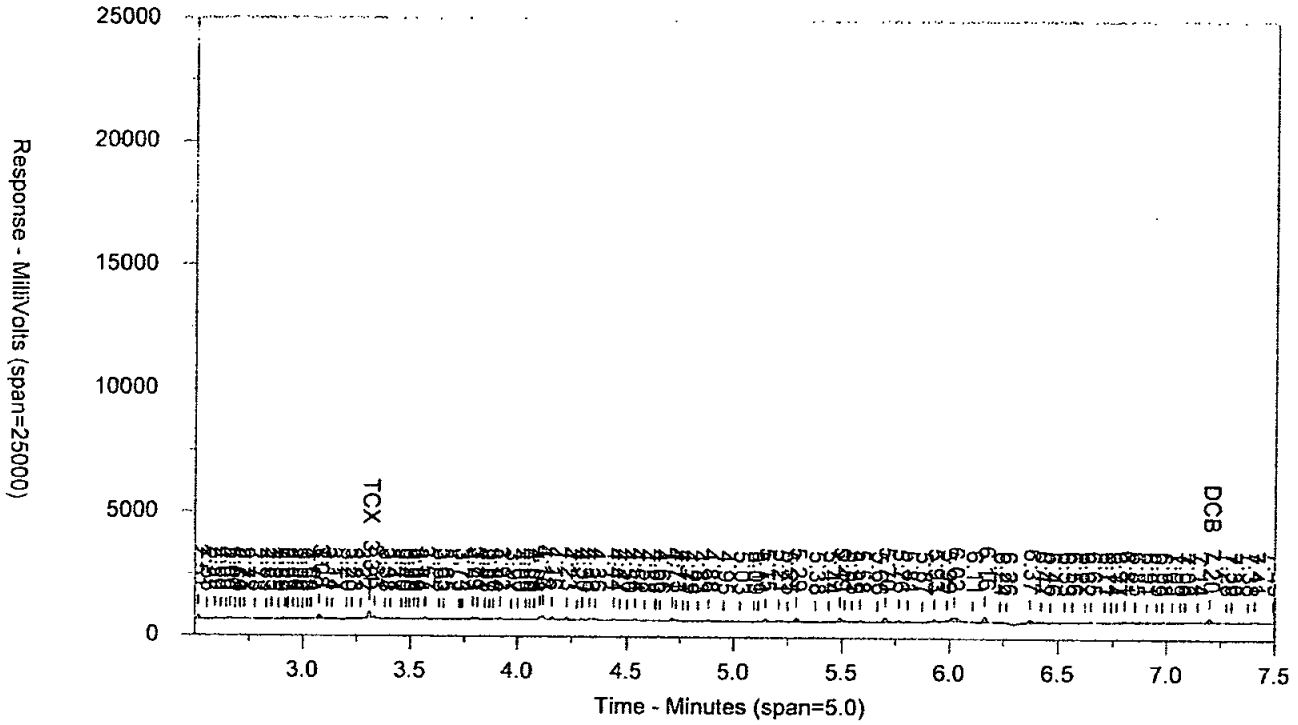

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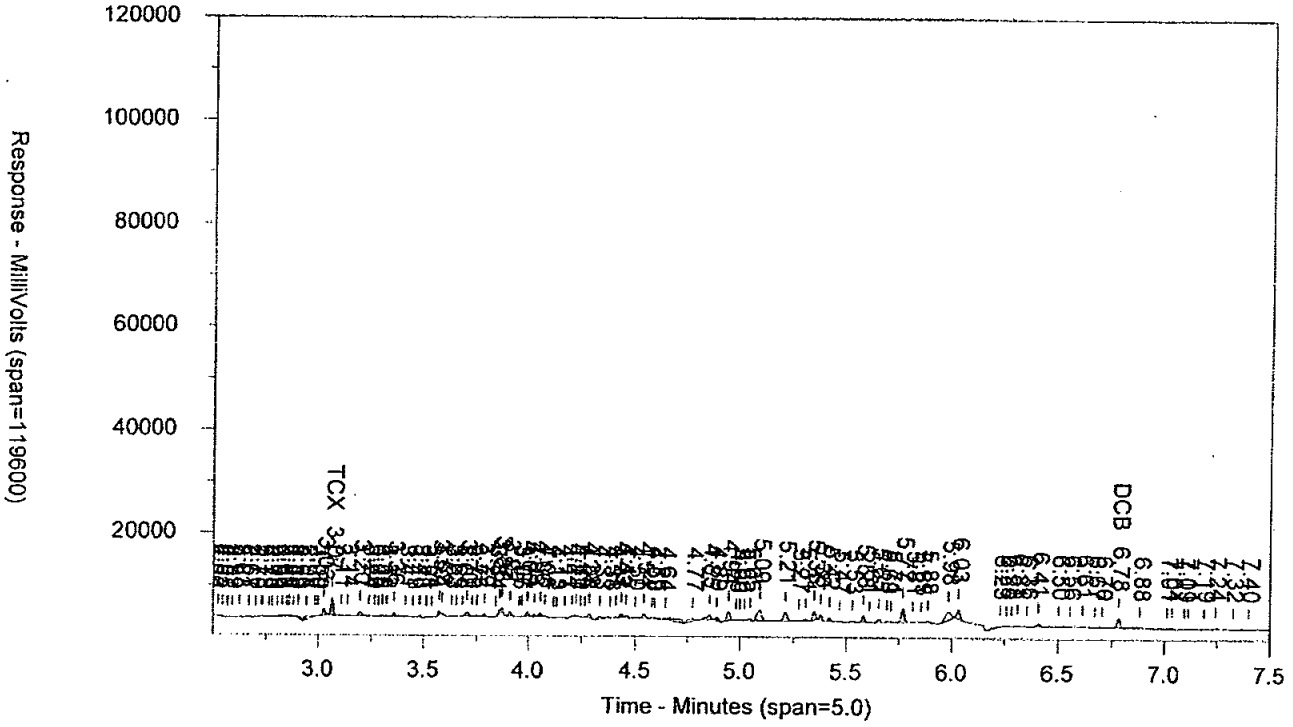

ASX73 1885

Chrom Perfect Chromatogram Report

LANCASTER LABORATORIES

Sample Number: IC16X1224B AAIC16XAA CCAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 5:07:37 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0028.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.513		7889	6081
2.554		4124	2823
2.578		67823	52201
2.626		1797	1812
2.663		38082	28025
2.691		27389	22147
2.767		1571	466
2.806		1561	759
2.834		2956	2767
2.853		1988	953
2.875		935	894
2.93		18095	15037
2.98		2286	2100
3.023		3412	2372
3.076		3574	7252
3.103		3978	2546
3.134		12955	29365
3.206		4115	3630
3.253		2490	2119
3.307	TCX	10386630	7988353
3.406		5268	4666
3.456		183868	175498
3.515		388183	315421
3.566		1081440	840227
3.631		2207	1314
3.664		164224	151636
3.694		2611	901
3.704		4141	3003
3.729		3079	2878
3.753		2765	1345
3.789		1063671	767891
3.809		513616	324472
3.849		148712	102999
3.868		26157	11556
3.884		98176	61686
3.918		1311036	1113859
3.953		9442	4960
3.983		14745	9074
3.998		36291	22524
4.037		322922	224957
4.055		160329	95643
4.104		617372	416504
4.118		1246340	770908
4.159		1453611	1357046
4.226		1319857	1213062
4.271		96683	70051
4.297		865976	745898
4.328		639998	604325
4.352		175731	112534
4.437		955769	839553
4.466		343417	260933
4.499		372848	320125
4.538		843972	990954
4.584		261173	244023

ASX73 1886

RT A	Compound A	Height A	Area A
4.63		26422	25939
4.676		36998	33441
4.713		891147	1096587
4.762		164273	142659
4.834		142926	141377
4.881		920995	1018713
4.953		2634	1891
4.994		4008	4081
5.036		46770	47263
5.094		81558	65948
5.112		275717	231039
5.159		554842	596581
5.208		917364	1158724
5.247		208125	164967
5.289		1866825	1986558
5.337		6277	5420
5.38		352131	386913
5.438		422315	488774
5.491		1767847	1625508
5.512		324731	208543
5.545		482606	458833
5.585		1096349	1354274
5.664		226848	274016
5.699		2406643	2790792
5.763		1231728	1293672
5.806		834173	885960
5.906		65602	79407
5.928		1247540	1240541
5.986		706271	699105
6.026		403263	422091
6.068		79387	75311
6.108		535581	544015
6.163		3082971	3156000
6.194		67643	63639
6.253		28949	81947
6.373		1682122	1950981
6.422		523713	1037059
6.524		3185	2799
6.563		109751	121213
6.622		44159	41428
6.65		339028	336527
6.713		3804	3292
6.737		1980	1197
6.767		4449	3839
6.805		797137	866103
6.851		51323	54567
6.97		2259	1698
7.025		282678	348614
7.099		2128	1690
7.125		1411	1500
7.199	DCB	3980559	5692941
7.406		35285	48979
7.474		2165	1410
7.543		2427	2340
7.566		4230	2996
7.611		4101	4807
7.643		8859	10606
7.691		5211	9331
7.839		2578	1456
7.865		2266	1219
7.891		3099	3665
7.954		2793	1766
7.985		1887	1548
8.013		2385	559
8.117		1646	2418
8.208		2256	3100

ASX73 1867

RT A	Compound A	Height A	Area A
8.246		11007	24171
8.321		2797	1293
8.344		1737	997
8.464		2756	781
8.478		4262	5749
8.545		2787	1313
8.616		1976	1137
8.664		1927	2217

ASX73 1888

LANCASTER LABORATORIES

Sample Number: IC16X1224B AAIC16XAA CCAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 5:07:37 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0028.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.507		19980	7887
2.554		19854	15435
2.57		54752	41586
2.621		19965	7866
2.631		21632	12327
2.679		32812	27786
2.705		40289	52562
2.733		167844	162158
2.787		9028	9755
2.813		18543	10799
2.844		29311	25320
2.946		169967	288356
2.979		174839	229865
3.035		23370	20332
3.067	TCX	156163500	110962300
3.109		949103	747384
3.175		29278	19138
3.196		294214	248028
3.239		2191038	1928027
3.302		2908690	3194207
3.359		12415940	8934556
3.417		459024	360787
3.477		1703895	1260392
3.51		67445	43446
3.534		66817	58173
3.573		10953630	6135547
3.586		3759800	1723464
3.628		1970893	1461330
3.652		872617	567500
3.678		1239308	773551
3.704		15604620	12557770
3.739		468173	336828
3.787		4246358	2627197
3.805		2208660	1305309
3.837		16296	9926
3.861		9803736	5704466
3.873		22156920	11536820
3.911		18407400	15984840
3.995		18960680	14572160
4.027		11870290	8166439
4.056		13733100	9746607
4.077		4385500	2629520
4.142		36677	22149
4.175		9914882	8329646
4.205		5351156	3477596
4.227		4296408	3014977
4.265		1676426	991973
4.282		9582366	6751260
4.332		3145869	2954181
4.38		291577	270775
4.405		1587425	1089074
4.43		12144330	9669019
4.459		1841424	1339003
4.499		1761978	1624998

ASX73 1889

RT B	Compound B	Height B	Area B
4.54		12577350	10566370
4.586		404351	373071
4.605		501873	574990
4.642		47750	18976
4.669		80951	70255
4.709		944978	1117355
4.774		3087120	3725417
4.828		968523	722513
4.855		12026780	12298020
4.886		5603610	6376772
4.944		29063700	27110100
4.991		458000	398591
5.021		1989485	1455586
5.046		5385038	5168312
5.092		35841270	33975190
5.211		32952660	31917860
5.274		3110502	2882902
5.307		8204321	7396010
5.348		34236160	31765090
5.379		17857120	14537710
5.42		12264440	11186300
5.484		23173	15512
5.527		4477554	5040766
5.58		23480730	21434640
5.608		2723056	2019304
5.655		11845920	11821540
5.691		4733569	3438680
5.712		2757611	1851231
5.767		58484980	56323760
5.809		1056416	870990
5.851		1584756	1526031
5.882		244348	230813
5.985		10586840	11636630
6.032		39093940	43456100
6.192		1144182	1152575
6.226		804383	715236
6.259		410595	378540
6.309		4434624	4570064
6.409		10513060	9813198
6.439		546700	413781
6.5		42769	43874
6.557		48246	56365
6.613		3802665	3848989
6.742		9389	10266
6.782	DCB	77500750	76694700
6.94		12305	10536
6.976		31833	36045
7.02		16709	35188
7.122		12052	5783
7.157		69314	80478
7.241		256421	348911
7.324		79283	99392
7.367		9366	5876
7.397		23039	27448
7.516		85298	133023
7.572		10388	12698
7.623		9517	7202
7.701		8528	3576
7.764		87028	116901
7.815		13683	4828
7.878		8587	2247
7.905		9224	9981
7.954		53374	82552
7.998		7146	2203
8.03		96920	146006
8.075		9914	2826

ASX73 1819

RT B	Compound B	Height B	Area B
8.12		7367	2882
8.138		12159	7196
8.187		10953	16483
8.211		12798	5554
8.256		10910	3574
8.28		11386	6511
8.355		18877	46197
8.477		12914	19832
8.499		5362	6590
8.519		11105	7484
8.537		15259	10101
8.58		5997	1692
8.62		11471	12947
8.68		10531	3894

IC16X1224B AAIC16XAA CCAL 1220399999

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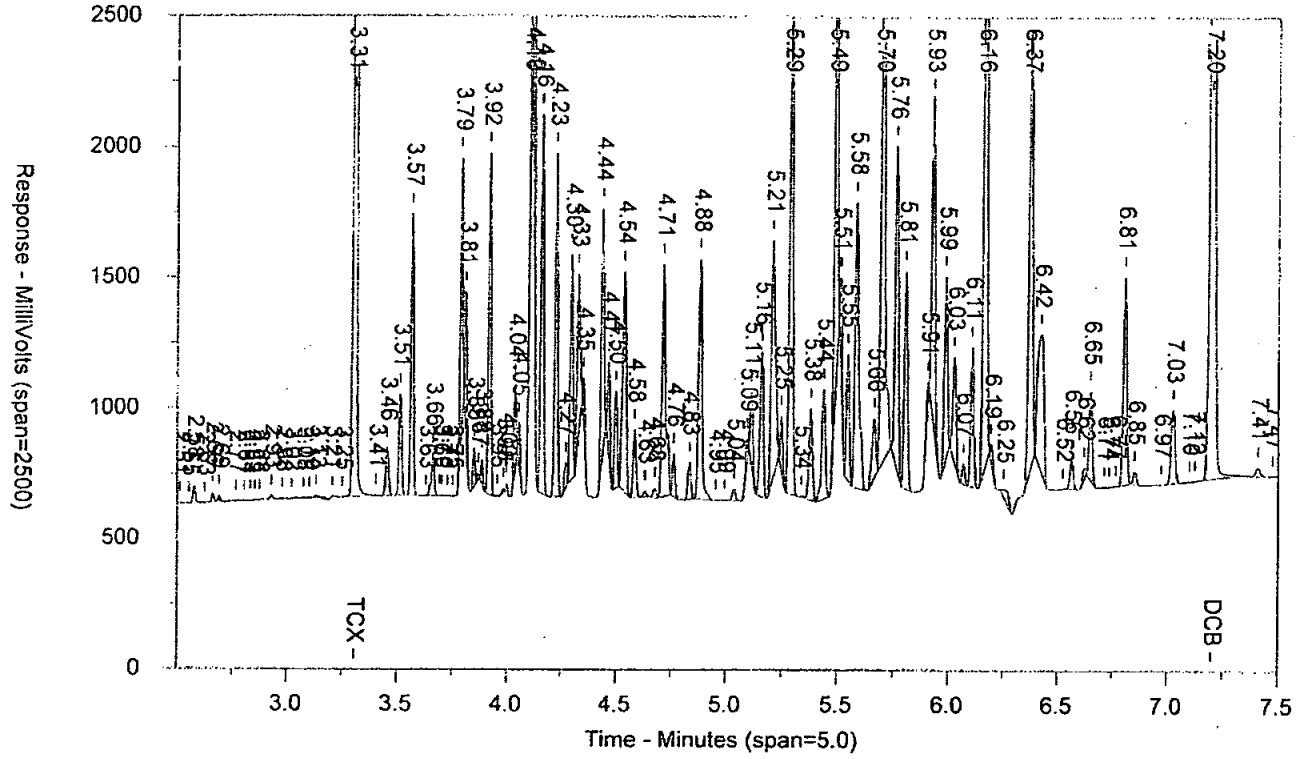

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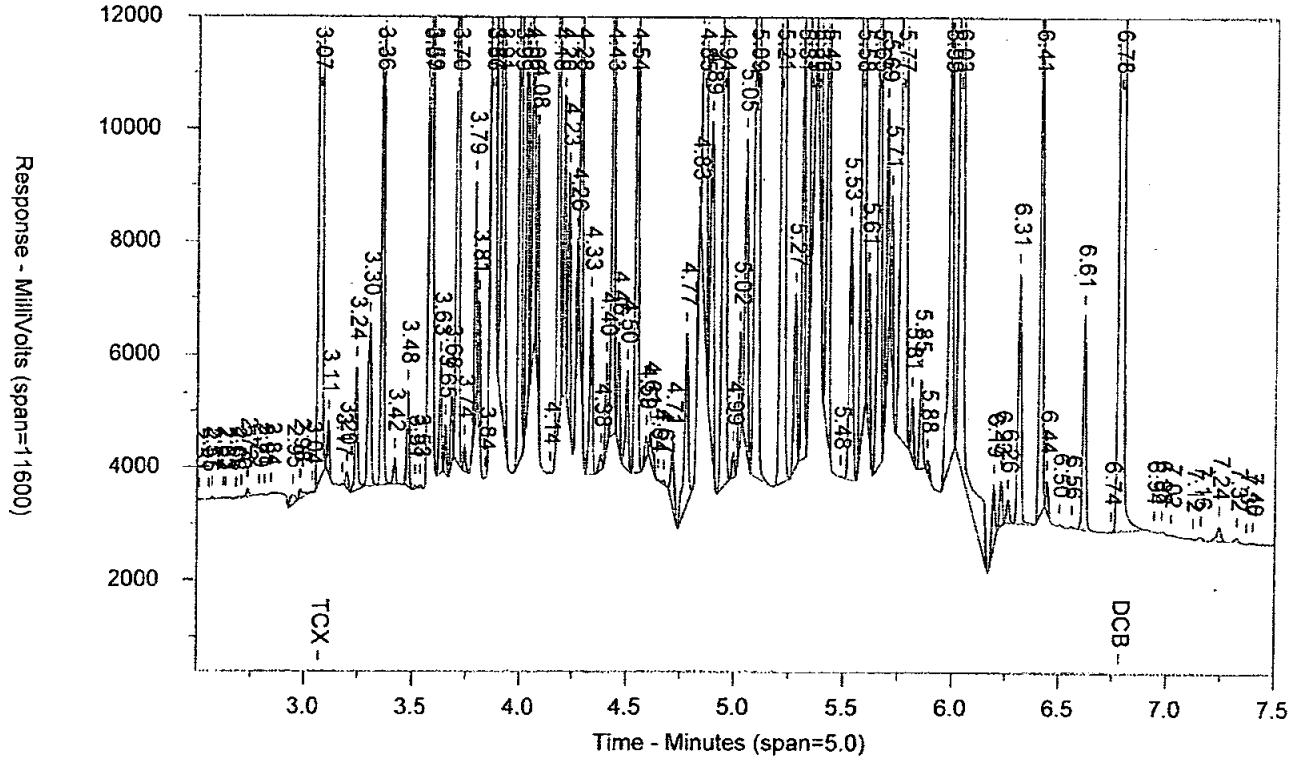

ASX73 1912

LANCASTER LABORATORIES

Sample Number: IC16X1224B AAIC16XAA CCAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 5:07:37 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.307	10386630	40.816	TCX	3.067	156163500	43.275	TCX
7.199	3980559	39.581	DCB	6.782	77500750	43.115	DCB

Files:
Area File: 1p20205.0028.RAW
Area File: 1p20205B.0028.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 5:16:21 PM
File Reported On: 7/23/2012 at 5:16:26 PM

ASX73 1813

IC16X1224B AAIC16XAA CCAL 1220399999

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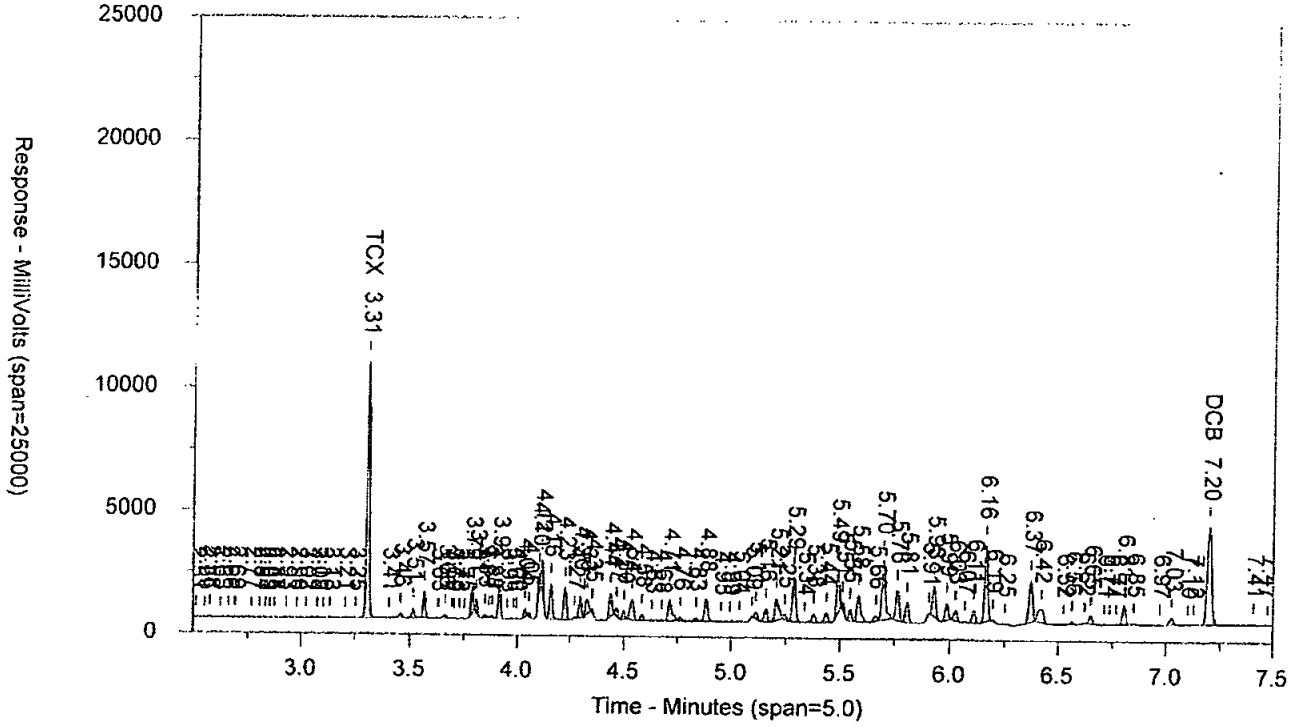

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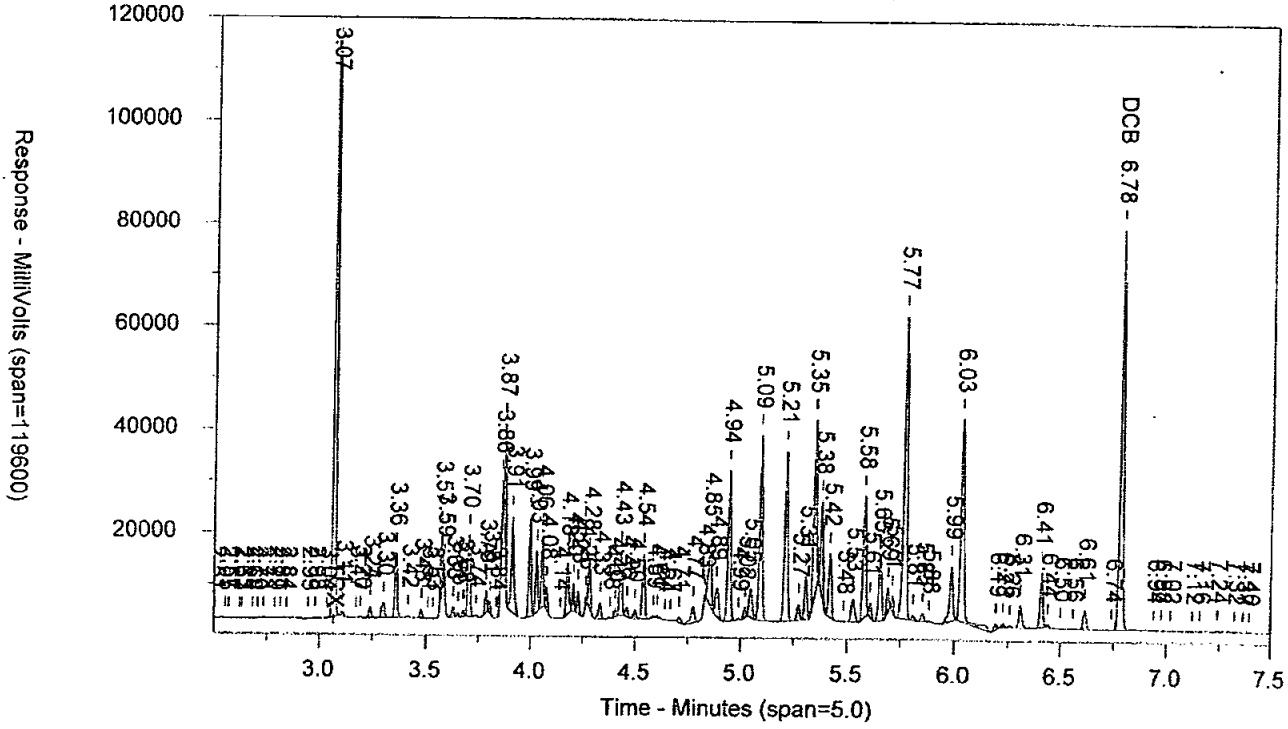

ASX73 1814

LANCASTER LABORATORIES

Sample Number: IC48X1224A AAIC48XAA CCAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 5:19:02 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0029.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.511		15712	13837
2.54		10592	8350
2.577		81324	183855
2.663		78402	116598
2.691		75613	79889
2.709		81756	135934
2.761		68337	94714
2.802		30999	36036
2.825		9455	10368
2.867		4518	3015
2.887		20297	27422
2.932		25702	46267
2.972		3753	2504
3.002		4992	3398
3.078		3320	2473
3.092		6442	7448
3.134		33386	163117
3.215		57378	89439
3.306	TCX	8898374	6667967
3.377		3304	2035
3.405		4693	2866
3.457		14483	13423
3.513		212644	200373
3.566		48909	26658
3.589		7146	8420
3.617		1890	514
3.649		23366	13162
3.662		23021	11569
3.694		6083	7136
3.715		20214	26841
3.789		521122	381437
3.809		154438	95092
3.848		46252	36200
3.882		26803	24371
3.916		338240	284912
3.948		17188	20100
3.982		26167	18415
4.008		10655	8752
4.036		82713	59037
4.055		29331	17135
4.079		3550	1968
4.103		489251	334161
4.117		442465	288927
4.158		600263	574021
4.225		715686	662157
4.267		69953	55092
4.297		1077792	906015
4.327		765195	680572
4.352		236118	156239
4.436		1302919	1132160
4.464		398345	310873
4.498		491989	432368
4.536		1129268	1243951
4.583		416542	389587

ASX73 1815

RT A	Compound A	Height A	Area A
4.615		20356	32195
4.675		160991	191638
4.712		879766	686627
4.733		1103065	801636
4.761		1303746	1164751
4.833		155662	169248
4.877		1265169	1207361
4.903		467917	579168
4.965		23734	19713
4.989		94646	81814
5.037		400395	425298
5.092		550481	555433
5.127		308540	255007
5.158		884855	862388
5.206		12024	9886
5.249		382425	392382
5.289		78023	110458
5.338		113243	119280
5.38		452915	485608
5.464		59736	128385
5.49		53471	36958
5.51		49508	38518
5.584		691452	729737
5.627		21345	17750
5.651		12630	16029
5.699		185847	203009
5.76		25121	55802
5.803		4152	3232
5.879		2800	2611
5.911		66113	73470
5.961		4334	3989
5.979		17652	14738
6.012		26397	56545
6.081		5378	9348
6.107		36926	36644
6.132		5720	3735
6.163		20841	19282
6.262		24750	41638
6.331		31744	81484
6.376		21454	22859
6.425		4843	6249
6.473		1820	747
6.528		1482	3009
6.562		48535	55669
6.671		3574	7738
6.705		5537	5928
6.731		2626	990
6.765		4815	5724
6.806		9250	17183
6.868		1867	619
6.882		2919	1736
6.936		4579	5112
6.982		1684	440
7.021		43112	52577
7.106		1317	1501
7.123		1910	1071
7.147		546	536
7.194	DCB	3760900	5235668
7.349		2916	1938
7.404		21968	35772
7.489		1615	1256
7.558		6923	15392
7.6		5417	5069
7.635		9249	11450
7.686		3974	6870
7.756		1328	1478

ASX73 1816

RT A	Compound A	Height A	Area A
7.774		4102	4793
7.843		2346	1059
7.878		2544	1862
7.887		3055	1176
7.925		2392	1661
7.942		3139	2323
7.991		2455	1218
8.023		1907	1245
8.096		2282	3460
8.111		2166	804
8.144		1634	915
8.171		1803	865
8.185		1831	741
8.21		3578	2809
8.244		7751	14114
8.334		3063	1335
8.357		2696	1458
8.433		2514	3251
8.472		1995	987
8.493		3329	3135
8.526		3558	814
8.552		7643	14703
8.624		2387	677
8.65		14195	46089

LANCASTER LABORATORIES

Sample Number: IC48X1224A AAIC48XAA CCAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 5:19:02 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0029.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.506		168710	143054
2.526		646334	1506152
2.615		1031384	2949242
2.633		939298	1587269
2.69		478632	907417
2.716		327562	386650
2.738		201435	368959
2.775		68367	148878
2.846		137978	167794
2.887		448889	333310
2.959		252377	1015673
2.978		425612	661120
3.035		104492	238515
3.067	TCX	136735700	96725840
3.11		83846	49338
3.172		27599	28848
3.198		758364	1334266
3.268		288854	960451
3.294		1924452	1974956
3.359		1555268	1436968
3.417		417344	298569
3.451		25229	9750
3.477		1029960	2268346
3.573		6660494	8694351
3.626		402822	266239
3.653		133630	107028
3.677		113078	71443
3.703		4908838	4144007
3.735		15511	7369
3.749		59938	39076
3.772		108056	52881
3.782		759129	381166
3.834		276979	452572
3.86		5020531	2780312
3.872		6280444	3370389
3.894		808632	344678
3.909		4875366	3201237
3.959		65983	51699
3.994		8169675	6230155
4.026		13642620	9809363
4.054		14701100	10537510
4.075		846335	451269
4.124		272097	762900
4.174		12913510	10866190
4.203		5314047	3466411
4.226		4795743	3353359
4.263		1376624	808743
4.281		12139860	8819979
4.331		5519865	5973737
4.404		8511287	6173786
4.429		21840030	16584610
4.458		19341300	14629750
4.483		938912	487847
4.497		657738	339954

ASX73 1818

RT B	Compound B	Height B	Area B
4.538		6794689	6038554
4.585		10545670	10349370
4.619		9392488	7877410
4.668		108854	57808
4.708		4712399	5269606
4.773		7920883	8184176
4.812		4411200	3475009
4.842		11620120	9915365
4.883		297281	364367
4.951		4636228	6726548
4.985		202662	151781
5.019		7325490	6910167
5.046		82761	64861
5.091		951994	967876
5.127		815603	851355
5.209		1316181	1416647
5.264		8011912	6770664
5.347		2110160	3748478
5.4		243861	242696
5.46		145622	248230
5.537		552500	1857931
5.612		219580	232834
5.642		20427	35726
5.657		27190	17055
5.692		45303	50663
5.713		12990	8932
5.747		308031	221537
5.766		107711	72097
5.789		138983	1749740
5.929		119623	379391
5.98		278125	634373
6.03		284339	3341409
6.192		349333	409790
6.21		11399	4269
6.259		78009	130000
6.319		40998	55979
6.361		101926	649491
6.469		109949	404281
6.511		32068	49140
6.552		31627	34895
6.575		10048	1815
6.612		623358	1143884
6.729		52395	303756
6.78	DCB	69248380	67320540
6.977		71823	247720
7.013		11031	6188
7.041		14806	19900
7.153		128776	184810
7.239		200255	353259
7.32		99431	201581
7.398		56055	238978
7.492		32443	49879
7.56		29465	81107
7.574		9865	5420
7.601		7744	6382
7.613		10428	4381
7.666		12219	8852
7.728		5974	2971
7.76		95872	163316
7.83		4831	3326
7.91		7861	7828
7.949		61741	91699
8.028		86766	156575
8.158		12267	10345
8.214		9571	4269
8.282		16506	22047

ASX73 1819

RT B	Compound B	Height B	Area B
8.314		13070	9548
8.336		52601	103234
8.43		18162	113966
8.45		10989	10377
8.464		10410	4311
8.505		6763	2865
8.565		8745	2320
8.591		6624	5032
8.659		9835	10566

ASX73 1820

IC48X1224A AAIC48XAA CCAL 1220399999

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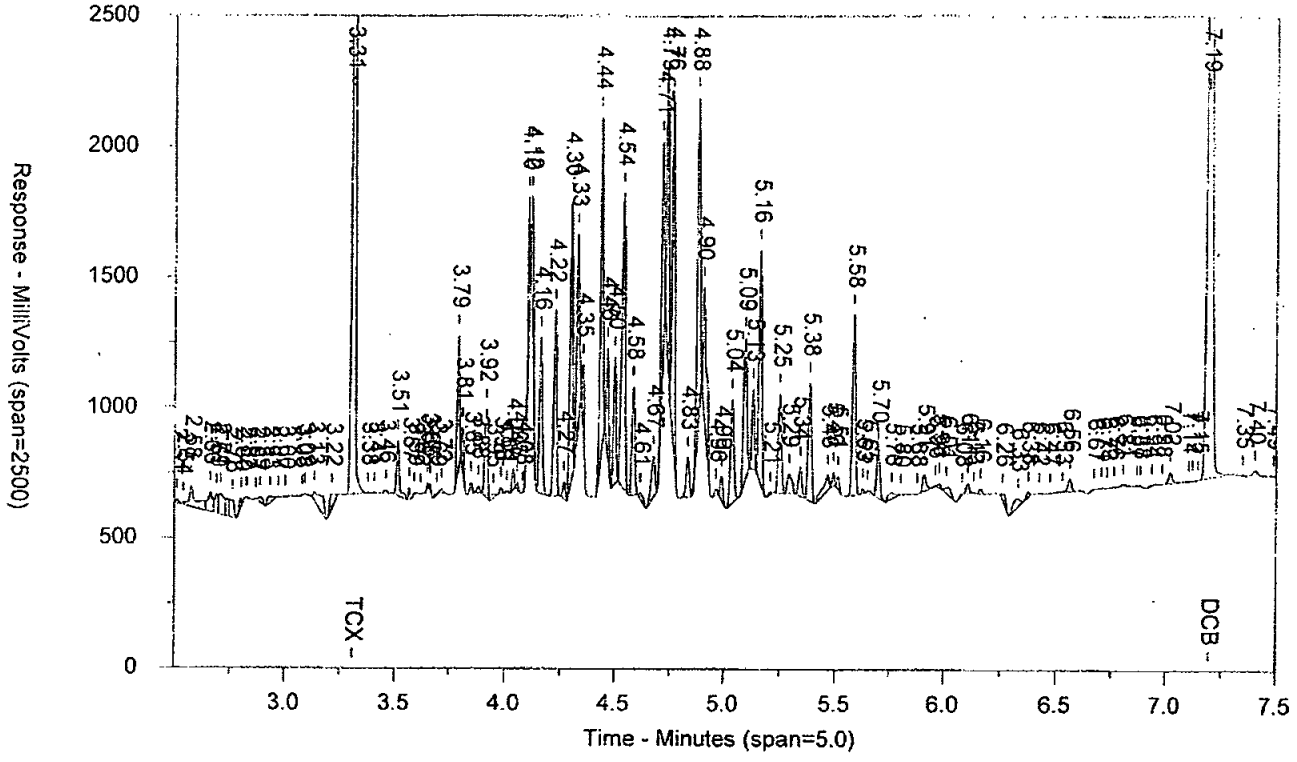

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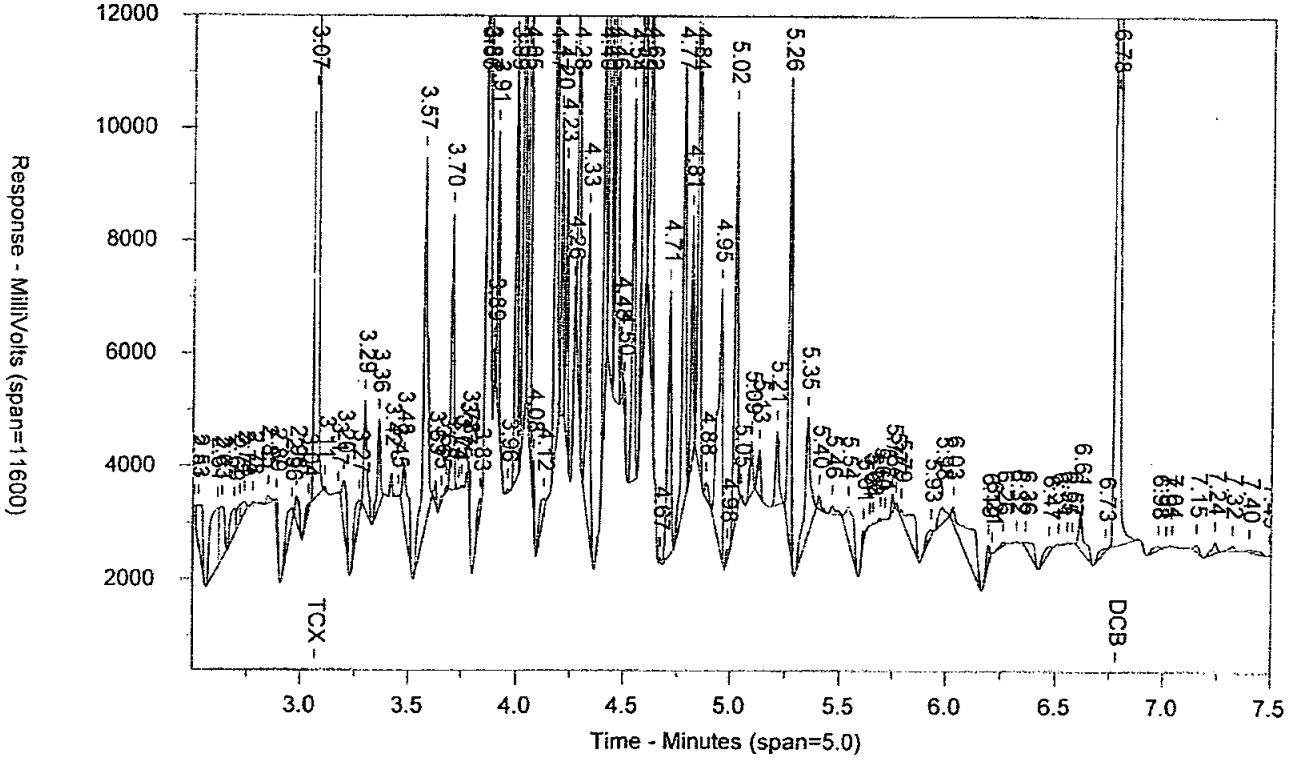

ASX73 1021

LANCASTER LABORATORIES

Sample Number: IC48X1224A AAIC48XAA CCAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 5:19:02 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.306	8898374	34.968	TCX	3.067	136735700	37.891	TCX
7.194	3760900	37.397	DCB	6.78	69248380	38.524	DCB

Files:
Area File: 1p20205.0029.RAW
Area File: 1p20205B.0029.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 5:27:45 PM
File Reported On: 7/23/2012 at 5:27:52 PM

IC48X1224A AAIC48XAA CCAL 1220399999

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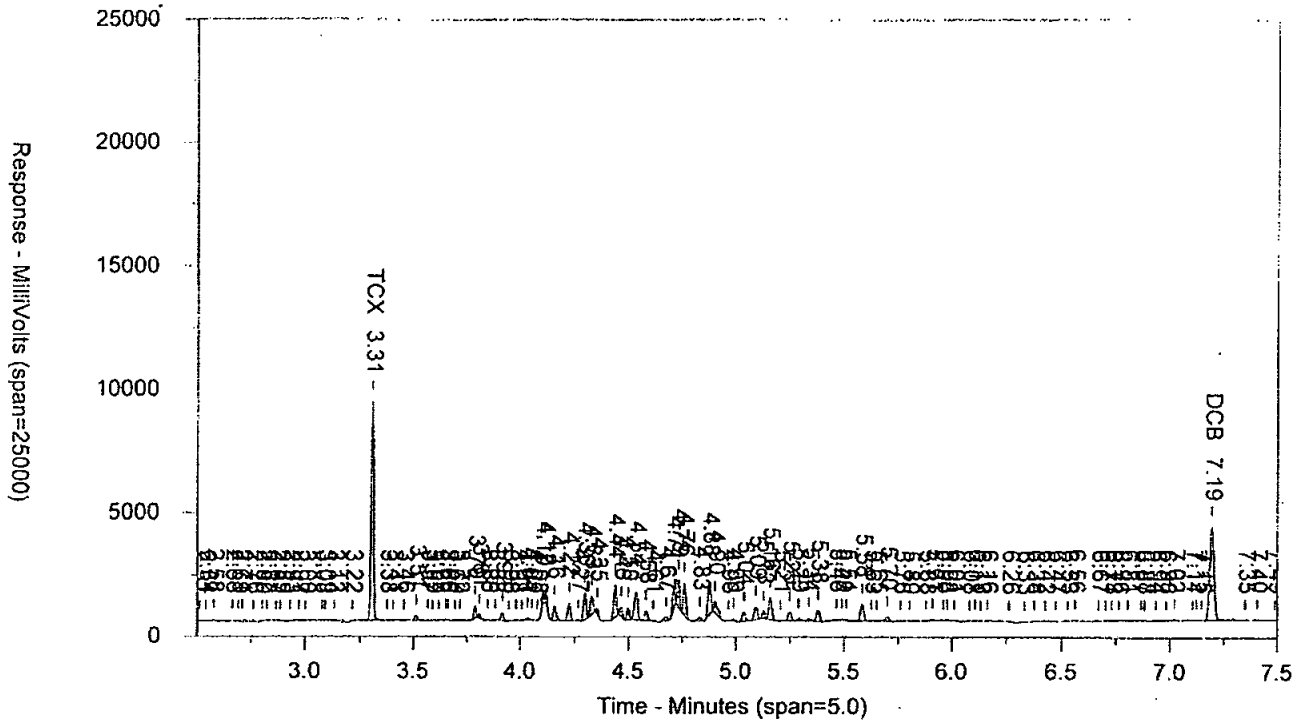

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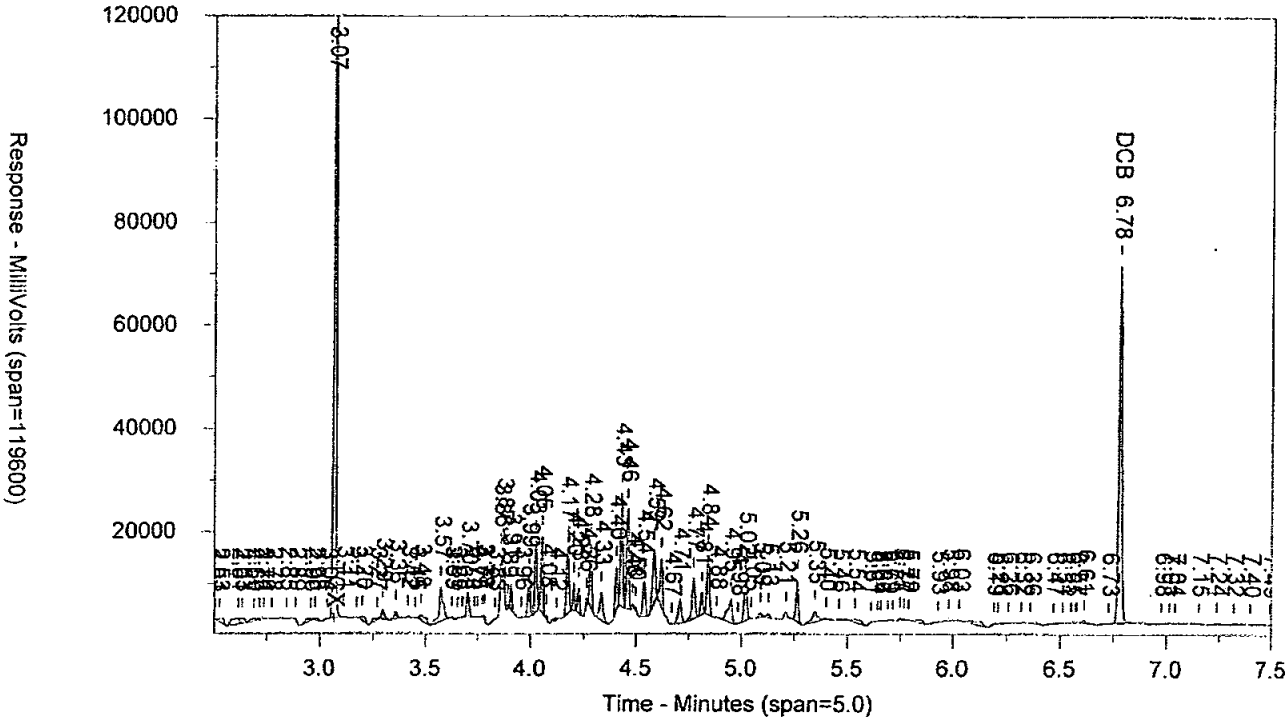

ASX73 1023

LANCASTER LABORATORIES

Sample Number: IC54X1224A AAIC54XAA CCAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 5:30:26 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205.0030.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.512		12769	9583
2.56		4840	3451
2.578		70271	55844
2.663		41878	32004
2.691		26213	20200
2.738		2684	3431
2.787		1692	1148
2.825		2038	1655
2.885		3373	4214
2.918		1741	576
2.93		3859	3654
2.977		2626	3151
3.026		4539	4192
3.079		4412	3785
3.1		2358	2045
3.135		21915	87473
3.255		7684	88957
3.306	TCX	11049340	8197314
3.407		9311	6469
3.459		3852	3627
3.513		200862	148517
3.54		2558	1777
3.566		28249	23778
3.65		42640	34958
3.691		2315	1495
3.79		33996	24800
3.809		13660	8248
3.846		9013	8861
3.883		3887	2488
3.917		34997	38581
3.983		34652	32252
4.036		8063	4531
4.056		4069	1977
4.083		2180	1589
4.104		43285	25751
4.119		36123	29482
4.16		43390	40863
4.225		46675	41761
4.269		3393	2083
4.297		1191824	1071195
4.328		344333	273883
4.353		35064	23827
4.437		795496	713225
4.466		52426	36212
4.499		76347	64286
4.538		352070	337075
4.584		77785	67265
4.615		9086	8748
4.673		75230	74616
4.714		1500286	1268546
4.734		581777	393620
4.763		551156	504841
4.835		537786	560464
4.881		2616218	2796147

ASX73 1824

RT A	Compound A	Height A	Area A
4.92		945211	919936
4.964		47822	35923
4.991		188695	174859
5.037		897038	959081
5.093		1587678	1614041
5.128		373596	268032
5.159		2957886	2996823
5.208		167791	143425
5.224		60317	37192
5.25		485648	440380
5.288		1041627	1213302
5.339		264852	266528
5.381		2265497	2395634
5.416		29391	18429
5.437		243637	212977
5.466		22003	11845
5.49		868263	741860
5.512		526899	389894
5.546		34561	26970
5.585		1818328	1973050
5.629		220156	181679
5.655		197914	274447
5.701		2263962	2585241
5.742		82121	50901
5.762		41224	27906
5.805		100145	88859
5.829		14890	9362
5.879		9864	6821
5.913		818078	1130259
5.987		82007	79954
6.026		110491	135562
6.066		8559	7251
6.108		524038	507605
6.135		67271	45399
6.163		354448	351615
6.204		14513	14907
6.375		299329	409820
6.406		46054	45038
6.482		2091	3224
6.504		2018	724
6.53		1754	2055
6.564		47915	57055
6.621		17321	17014
6.652		6767	6246
6.686		1956	1485
6.712		3490	3368
6.765		8070	9133
6.805		20452	29374
6.948		1054	767
6.984		1719	446
7.025		42882	52486
7.06		2497	1486
7.087		2460	1174
7.109		1828	849
7.144		1684	1729
7.198	DCB	4029677	5619569
7.379		2487	865
7.409		38907	59713
7.492		2540	1016
7.538		3049	4693
7.606		4815	4464
7.645		8789	9847
7.687		2565	1553
7.744		2076	1416
7.823		1914	801
7.899		1831	797

RT A	Compound A	Height A	Area A
7.936		2720	3195
7.978		2250	666
8.026		1679	1974
8.048		2859	1182
8.086		1875	703
8.124		2006	1968
8.158		2162	1712
8.251		9261	19755
8.335		2064	1059
8.414		2281	740
8.477		1906	969
8.494		3088	2750
8.556		8525	16749
8.642		2147	2045

ASX73 1826

LANCASTER LABORATORIES

Sample Number: IC54X1224A AAIC54XAA CCAL 1220399999 Injection Volume: 1 ul
Injected On: 7/23/2012 5:30:26 PM Analyst: 2855
Instrument ID: CP20-17342
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: 1p20205B.0030.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.506		14990	5828
2.527		12192	5580
2.546		21773	18564
2.567		40348	42028
2.615		24693	18755
2.631		28323	17891
2.676		25691	17118
2.706		30029	42029
2.719		29825	15091
2.732		51945	52241
2.754		21577	17068
2.799		16521	22622
2.812		17849	6822
2.842		18030	10903
2.866		17683	8242
2.876		89473	858026
2.947		370575	714197
2.979		170890	221792
3.03		54850	44760
3.067	TCX	156337100	109873500
3.147		35552	25430
3.174		38432	23330
3.196		302399	263333
3.218		33491	13440
3.236		34842	18733
3.273		17832	7218
3.293		1960742	1423970
3.329		44287	27431
3.359		304137	233064
3.417		468970	333159
3.45		36083	34630
3.477		87127	81060
3.509		81029	55670
3.532		44864	37803
3.573		301791	179175
3.586		104359	49760
3.63		101290	77800
3.65		22500	9269
3.677		18935	12932
3.704		393980	306061
3.728		46099	28378
3.752		78321	47308
3.772		251334	139464
3.786		153312	109123
3.826		26748	17759
3.839		20645	13503
3.86		468773	283429
3.872		348831	172204
3.894		217856	108903
3.91		266189	186773
3.958		29110	23116
3.995		476674	365426
4.026		14900760	11210110
4.055		4398414	3024405

ASX73 1827

RT B	Compound B	Height B	Area B
4.076		517791	314727
4.113		40129	24267
4.139		23566	16657
4.174		7074023	5744159
4.204		691835	443417
4.227		855917	776863
4.281		3892988	3486515
4.332		917557	892554
4.372		795362	751671
4.404		3115379	2120695
4.43		39066080	30430070
4.459		4010632	2774472
4.484		1620504	988405
4.498		4656772	3043491
4.539		35556820	29529800
4.577		14254580	11639350
4.605		9444411	7913696
4.668		2671195	2443133
4.709		12687410	11662250
4.774		30321190	27356670
4.813		6818936	5022512
4.843		51771260	47481670
4.884		3773451	4325606
4.944		19193260	23755180
4.983		3479275	3041389
5.021		35010780	29480850
5.047		3277117	2675046
5.092		20461110	19526940
5.128		1436678	1170464
5.21		22756990	21080450
5.266		28082510	25499140
5.305		5746404	5188608
5.348		39379900	44803750
5.4		2759587	1961710
5.419		619416	356235
5.461		19464	6601
5.488		636166	567657
5.537		2052154	2146538
5.579		1941242	1529060
5.608		10961560	9793750
5.655		1414821	1300788
5.691		923304	753305
5.711		315196	175027
5.748		4842715	3616075
5.767		2389984	1514487
5.79		911231	565923
5.841		41082	28697
5.883		343081	475263
5.98		620469	1261652
6.03		4459874	7526356
6.191		471554	485121
6.227		188504	179094
6.257		43588	49621
6.312		170804	306111
6.408		197779	223516
6.503		19509	15136
6.551		37744	41848
6.614		559198	541937
6.782	DCB	75186670	73701420
6.881		24233	24663
6.906		18588	11748
6.977		16178	13954
7.023		26009	37693
7.121		13141	4612
7.156		81351	89061
7.241		297958	414979

ASX73 1828

RT B	Compound B	Height B	Area B
7.323		82086	119586
7.401		51286	64127
7.514		94476	158980
7.566		11426	19143
7.663		6897	3146
7.708		11887	9681
7.725		8374	1868
7.764		91163	145821
7.833		5708	6453
7.869		7507	9619
7.882		8639	3551
7.895		11950	5279
7.92		9637	5011
7.952		54715	86660
8.029		104994	169399
8.095		9623	6390
8.103		11408	4028
8.181		10519	5326
8.22		8339	5234
8.248		6299	1150
8.274		7417	3540
8.296		8625	5157
8.358		10836	15775
8.415		8717	7118
8.466		11570	11818
8.516		8164	7850
8.527		10312	7529
8.588		12330	6996
8.598		6520	2603
8.642		8477	4385
8.676		10292	7078

83X73 1829

IC54X1224A AAIC54XAA CCAL 1220399999

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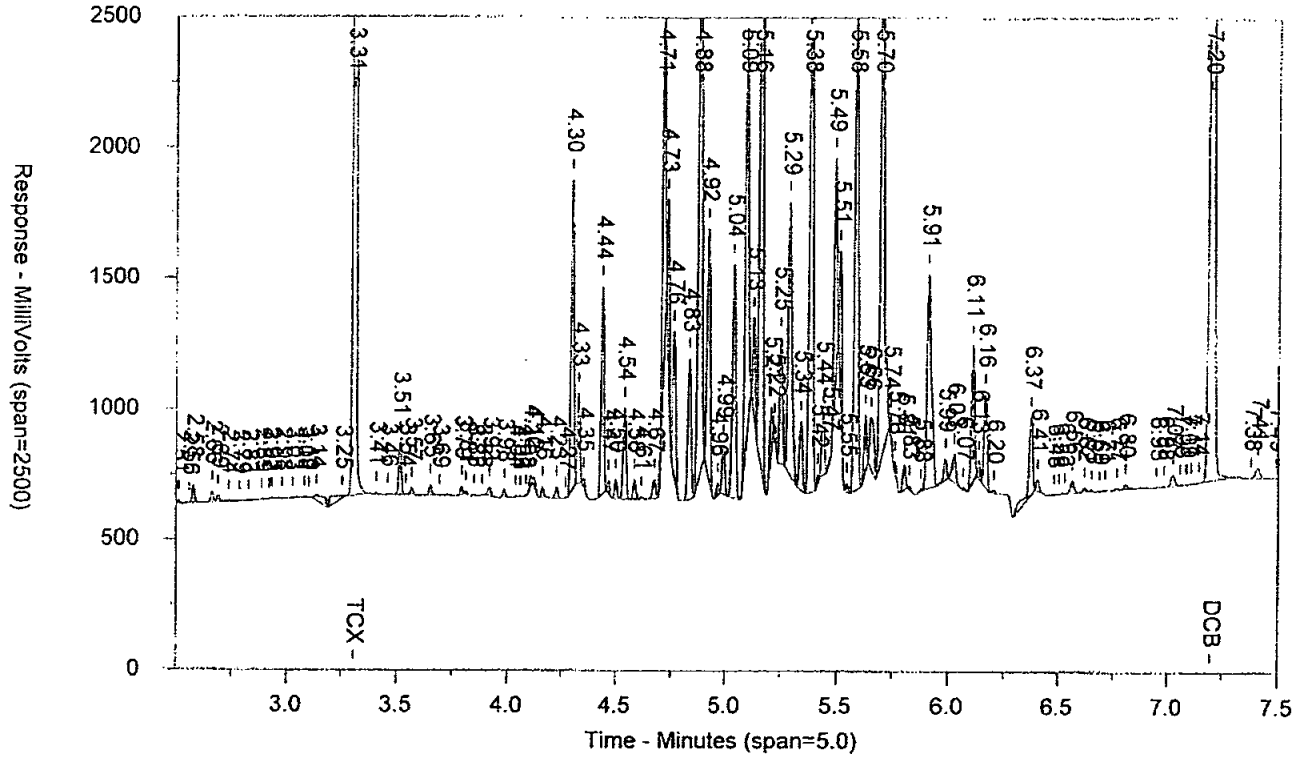

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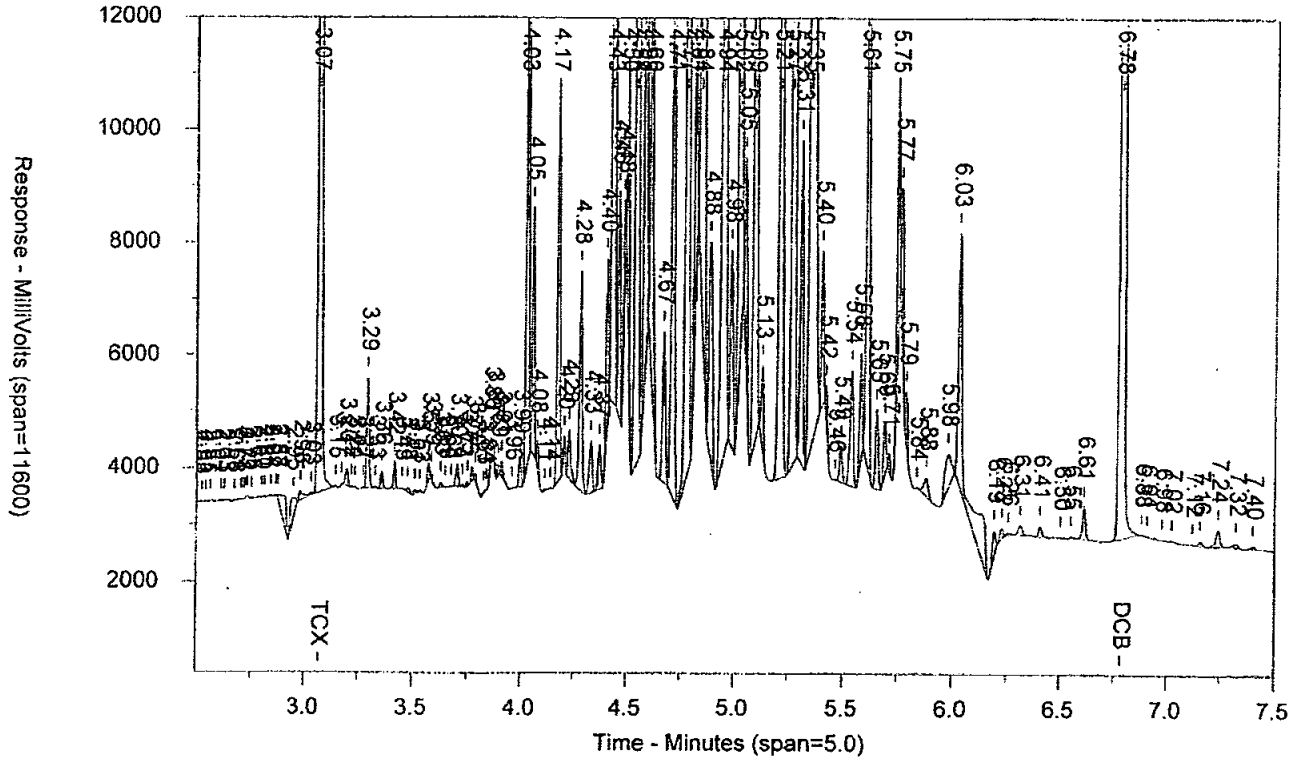

ASX73 1030

LANCASTER LABORATORIES

Sample Number: IC54X1224A AAIC54XAA CCAL 1220399999 Sample Weight: 1
Injected On: 7/23/2012 5:30:26 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.306	11049340	43.421	TCX	3.067	156337100	43.323	TCX
7.198	4029677	40.07	DCB	6.782	75186670	41.827	DCB

Files:
Area File: 1p20205.0030.RAW
Area File: 1p20205B.0030.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/23/2012 5:39:08 PM
File Reported On: 7/23/2012 at 5:39:16 PM

IC54X1224A AAIC54XAA CCAL 1220399999

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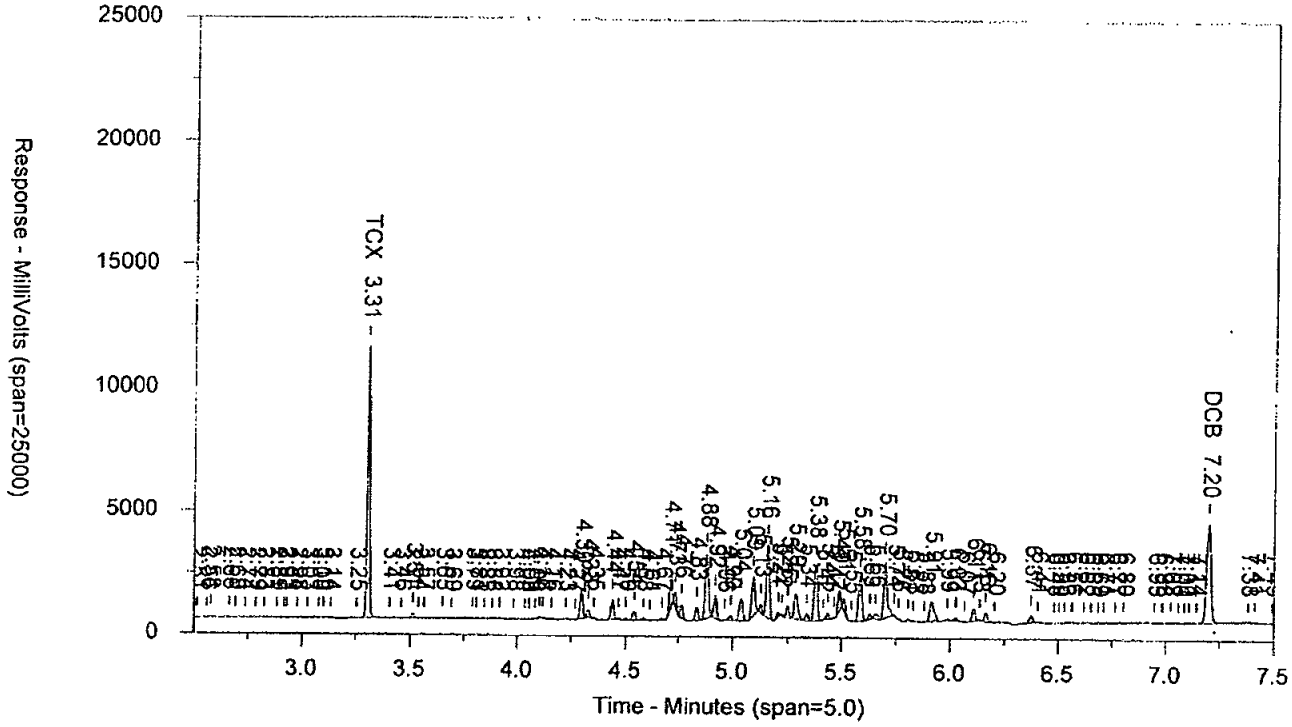

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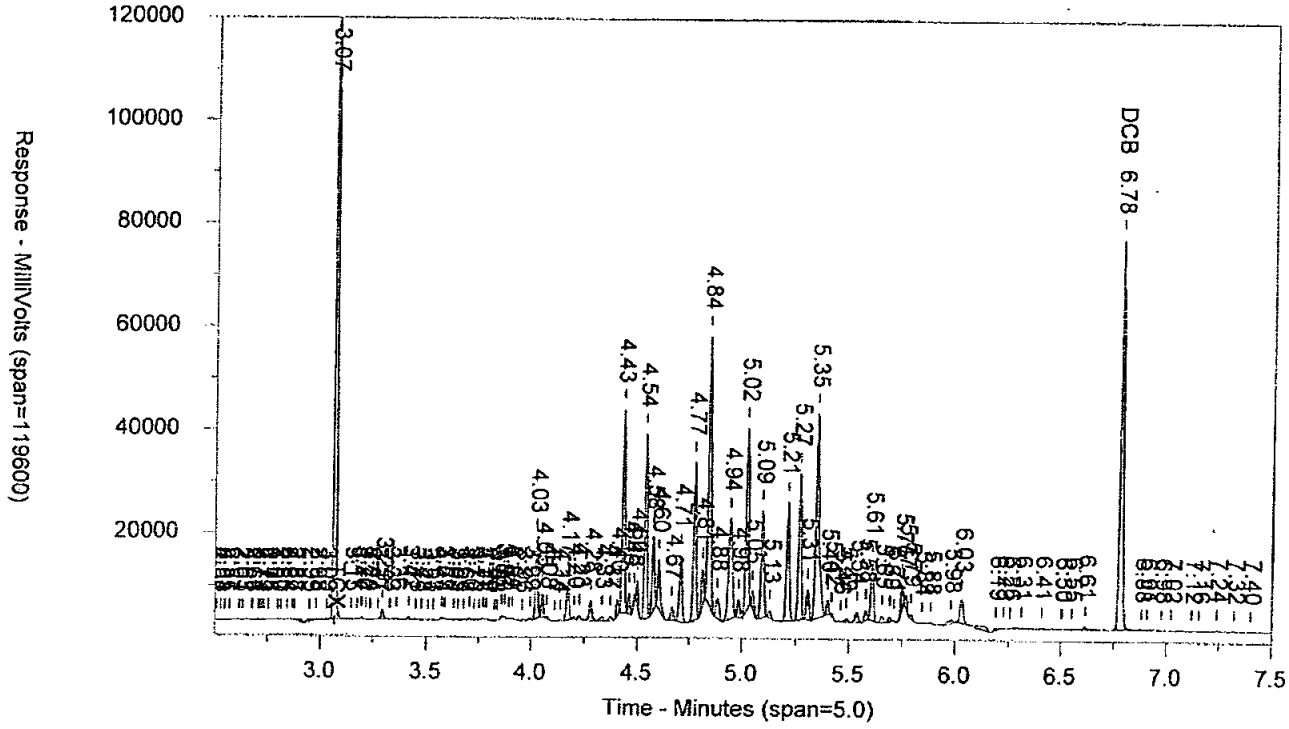

ASX73 1032

LANCASTER LABORATORIES

Sample Number: AR1631224B XLAR163XL CCAL 1220599999 Injection Volume: 1 SW-846 8082
Injected On: 7/24/2012 11:10:16 PM Analyst: 2855
Instrument ID: CP20-17342
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: 3p20205.0005.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.51		7666	4485
2.551		1863	1286
2.577		79983	62100
2.663		44067	38405
2.691		34204	29596
2.736		5801	6052
2.784		1439	1219
2.839		3349	3047
2.866		2093	1204
2.93		20481	15151
2.978		3544	3702
3.024		2815	2050
3.075		3340	1818
3.131		21380	78717
3.214		14851	38310
3.238		1962	2045
3.306	TCX	11975550	8989623
3.455		212472	206488
3.514		454781	367008
3.565		1215925	947797
3.628		2392	1160
3.662		187144	175086
3.703		5026	3441
3.733		2113	1055
3.789		1137673	811141
3.808		555824	350511
3.848		169864	115202
3.866		29475	12848
3.883		118291	73702
3.916		1416484	1214327
3.953		8842	5613
3.981		17163	9946
3.997		43994	28335
4.036		339889	245102
4.053		177293	104374
4.077		7248	3233
4.103		741021	474023
4.116		1257981	788619
4.158		1609407	1480273
4.225		1431002	1322066
4.269		111655	78422
4.296		952087	816743
4.327		681424	649418
4.352		194765	122722
4.436		1040760	923777
4.464		391360	308257
4.498		447138	385168
4.537		1111646	1322607
4.583		397142	372284
4.629		61903	57487
4.675		79775	76107
4.713		982592	847669
4.733		249835	150837
4.761		333596	300227

ASX73 1833

RT A	Compound A	Height A	Area A
4.833		184279	183961
4.88		1082736	1231789
4.991		6405	5340
5.036		55182	57914
5.093		94300	72854
5.111		314297	267568
5.158		640114	662852
5.207		998731	1323576
5.246		242829	188060
5.288		2072306	2258015
5.335		5119	4527
5.379		410323	472811
5.437		491759	560928
5.489		1930496	1810438
5.511		329261	224748
5.545		537368	523803
5.583		1241039	1546935
5.664		263969	320749
5.699		2578239	2639843
5.722		70000	33110
5.762		1434880	1455841
5.805		953657	1041206
5.905		87861	96790
5.928		1413414	1394072
5.987		877253	853524
6.026		461333	466502
6.069		107291	100970
6.108		616660	644098
6.163		3371513	3584310
6.193		70085	66844
6.249		12686	53619
6.373		1865039	2185789
6.413		76658	130490
6.422		121723	170495
6.526		2986	2581
6.562		125160	145165
6.62		53547	48235
6.65		370859	383371
6.709		3077	1738
6.804		827966	955049
6.851		57023	60144
6.968		1747	528
7.023		291941	368772
7.126		2766	1572
7.197	DCB	4062492	5535363
7.288		3448	4312
7.404		18840	30061
7.499		1666	1421
7.535		2970	1542
7.606		5710	6982
7.643		7179	8363
7.69		3167	4219
7.746		2758	2025
7.804		1823	623
7.816		2650	2267
7.916		1812	1713
8.015		2142	2567
8.14		2219	1014
8.153		1902	1883
8.218		1476	1058
8.247		8720	14464
8.333		1924	1733
8.425		1678	633
8.457		1664	1159
8.494		2790	5464
8.556		4044	5551

RT A	Compound A	Height A	Area A
8.651		2623	2254
8.679		9058	11269

ASX73 1835

LANCASTER LABORATORIES

Sample Number: AR1631224B XLAR163XL CCAL 1220599999 Injection Volume: 1 SW-846 8082
Injected On: 7/24/2012 11:10:16 PM Analyst: 2855
Instrument ID: CP20-17342
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: 3p20205B.0005.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.519		13674	8235
2.556		11690	12864
2.572		59962	56563
2.601		14558	7613
2.63		22344	32786
2.672		19710	11586
2.705		24659	36625
2.733		170452	124928
2.754		16697	11434
2.791		7072	3058
2.803		21113	15715
2.843		32802	20733
2.879		19105	11747
2.898		153488	322067
2.945		353683	698817
2.977		176772	169670
3.029		38546	39981
3.067	TCX	161703600	117087500
3.108		1071380	855667
3.193		197310	160699
3.239		2460482	2062485
3.272		25041	7384
3.301		3156294	3533441
3.358		13066210	9531315
3.416		511769	356451
3.475		1856454	1371706
3.507		53648	38945
3.534		34015	24879
3.572		10931160	6465946
3.584		3813766	1673062
3.626		2202368	1632665
3.65		993029	625218
3.677		1434925	904044
3.702		15867460	13197260
3.738		562047	399951
3.785		4698364	2896064
3.803		2407724	1397895
3.835		19682	7119
3.859		10523690	6141540
3.871		22998390	11595720
3.893		243265	96430
3.909		18471860	15321230
3.993		20677370	15586220
4.025		12745440	8941675
4.054		14180790	10243880
4.075		4199348	2710855
4.173		8824971	7863189
4.202		6046379	4005940
4.225		5681705	3901540
4.263		2275646	1329301
4.28		13793500	9904354
4.33		4989037	4627969
4.378		685874	633807
4.403		3847977	2684129

ASX73. 1836

RT B	Compound B	Height B	Area B
4.428		18468790	14647250
4.458		4352456	3201067
4.496		2168971	2117137
4.537		14739240	12879290
4.584		537483	466001
4.604		986716	1033367
4.664		80310	63372
4.707		1200879	1371164
4.771		3744139	4319870
4.826		1175717	828344
4.852		14107840	14271950
4.883		6757649	7602960
4.941		35790800	32951720
4.99		580189	471275
5.019		2372233	1793828
5.044		6740449	6297988
5.09		44454870	40805700
5.209		39733000	38965560
5.269		2820620	2696627
5.305		9397543	8757293
5.344		44025330	39186920
5.376		21453340	17392160
5.417		16091440	13772230
5.484		67584	51669
5.523		5661806	6217542
5.576		29517260	26155820
5.605		3365358	2560292
5.652		14478620	13932180
5.689		5230549	4126229
5.709		3256724	2120274
5.765		73210260	69475860
5.806		1306367	1068573
5.85		1305753	1279375
5.885		96859	91353
5.958		396576	273902
5.982		11567910	10701020
6.029		46061160	53537670
6.188		1407829	1386813
6.223		1091818	1027840
6.257		360044	289502
6.306		5056325	5124174
6.405		10862730	10249070
6.436		567298	430800
6.548		30871	38772
6.61		3808566	3871963
6.778	DCB	72348960	70651220
6.976		31009	28333
7.149		41249	51379
7.211		15947	9666
7.235		110850	122758
7.309		7246	2542
7.509		42777	58810
7.756		48575	72692
7.852		6906	4562
7.937		26327	66423
8.019		29807	54524
8.084		7385	2774
8.157		7856	6506
8.177		7969	10953
8.38		7638	4272
8.417		5875	9157
8.536		6898	2644
8.557		6109	2443
8.615		7499	2423
8.682		9491	15973

ASX73 1837

AR1631224B XLAR163XL CCAL 1220599999 SW-846 8082

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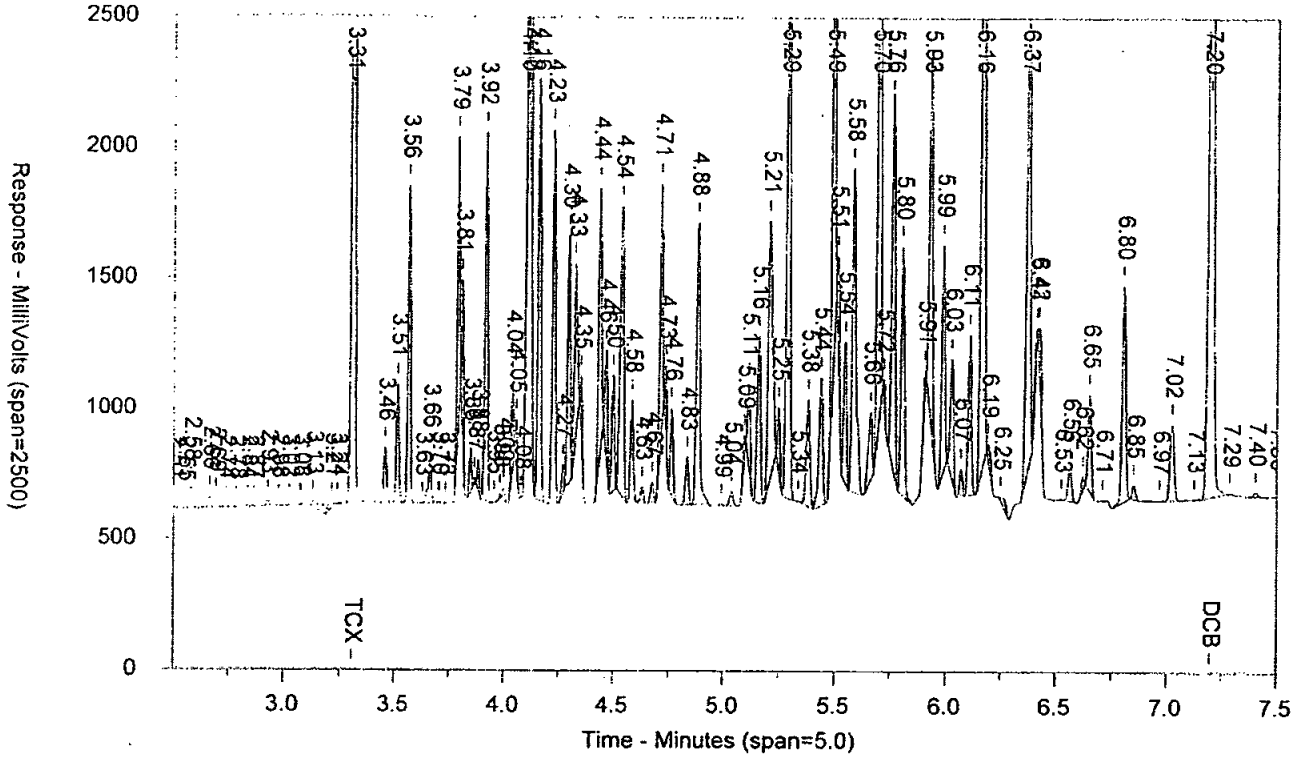

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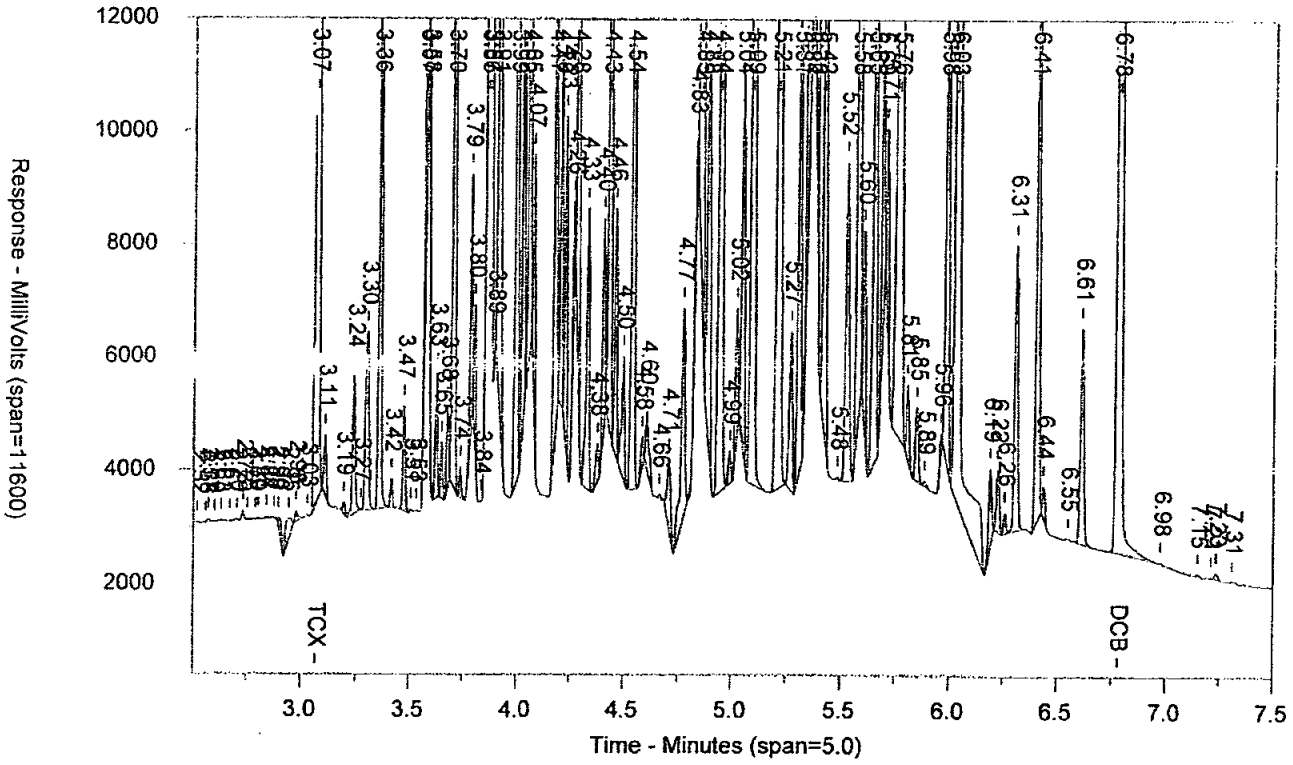

LANCASTER LABORATORIES

Sample Number: AR1631224B XLAR163XL CCAL 1220599999 Sample Weight: SW-846 8082
Injected On: 7/24/2012 11:10:16 PM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.306	11975550	47.06	TCX	3.067	161703600	44.81	TCX
7.197	4062492	40.396	DCB	6.778	72348960	40.249	DCB

Files:
Area File: 3p20205.0005.RAW
Area File: 3p20205B.0005.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/24/2012 11:18:59 PM
File Reported On: 7/24/2012 at 11:19:04 PM

AR1631224B XLAR163XL CCAL 1220599999 SW-846 8082

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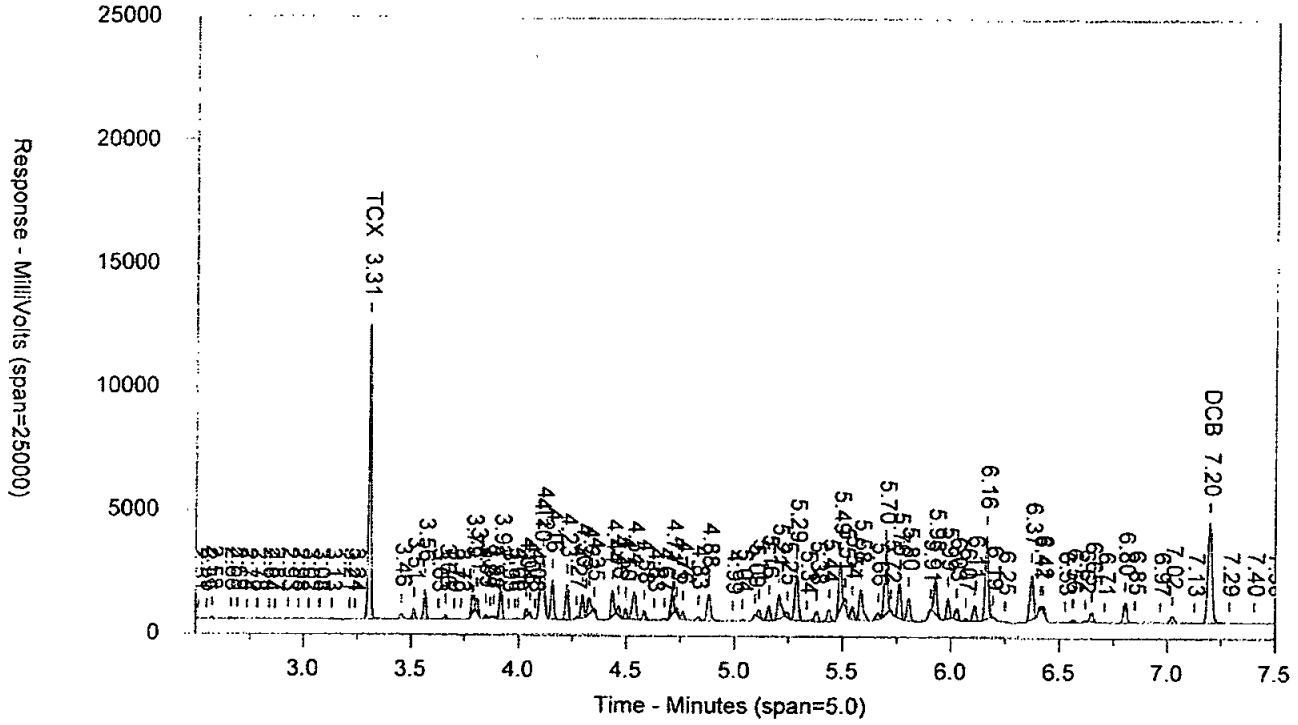

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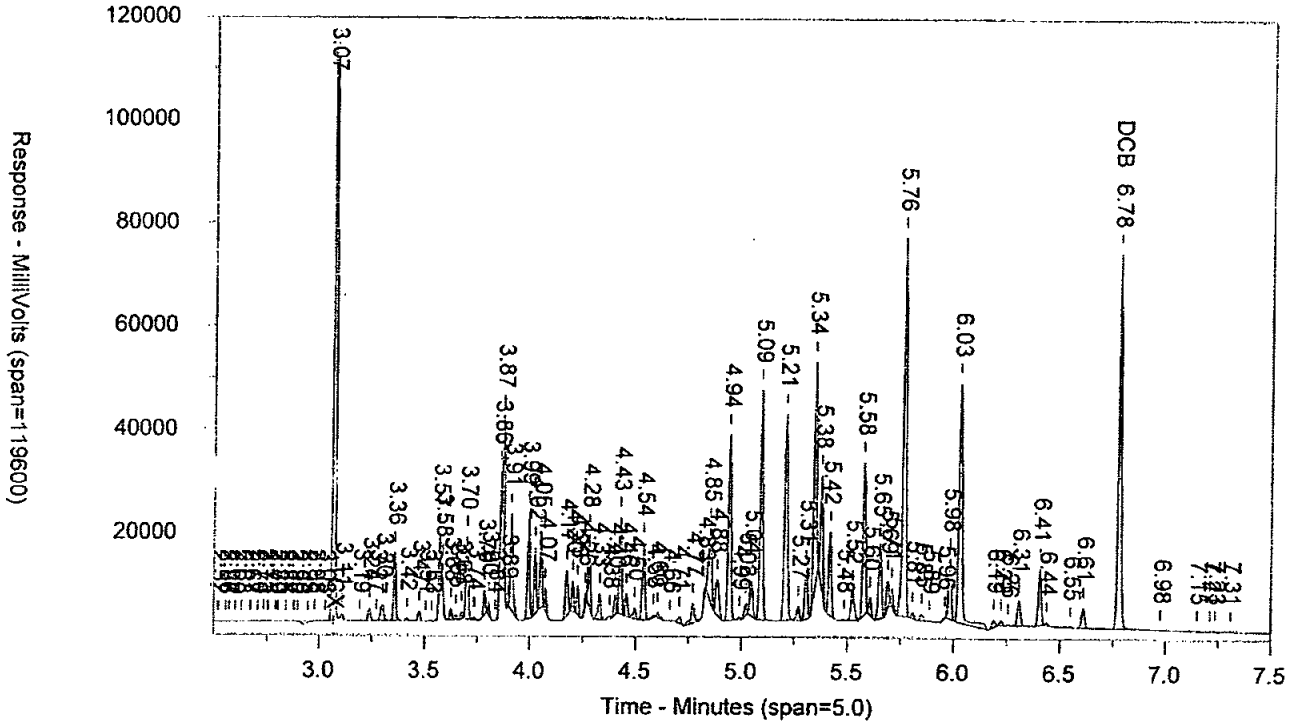

Chrom Perfect Chromatogram Report

LANCASTER LABORATORIES

Sample Number: IBLKX1224C PFPIBLKPF PIBLK1220599999 Injection Volume: 1SW-846 8082
Injected On: 7/24/2012 11:21:38 PM Analyst: 2855
Instrument ID: CP20-17342
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: 3p20205.0006.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.51		7924	5779
2.556		2418	2489
2.577		40589	32410
2.632		3002	1571
2.662		39797	31153
2.691		15834	13225
2.833		2046	15607
2.888		2897	3225
2.934		4439	5644
2.979		1916	1561
3.036		3405	5805
3.079		4332	4419
3.103		4255	2484
3.133		20475	18284
3.244		11693	55983
3.306	TCX	6008189	4571493
3.402		2479	1280
3.477		1960	1719
3.511		120788	88668
3.581		7813	8715
3.629		4320	1575
3.649		27037	18027
3.671		1904	588
3.714		2838	4927
3.771		1646	500
3.842		2295	2761
3.883		2679	2111
3.901		11477	12842
3.951		3136	6852
3.982		17659	13611
4.015		2644	1995
4.077		14198	15589
4.169		5603	9082
4.302		6841	10588
4.325		2243	1338
4.432		2229	1955
4.508		3827	3118
4.553		2417	1378
4.584		2513	2634
4.611		7619	11496
4.658		5273	4825
4.722		2177	3957
4.779		6989	13562
4.814		1864	980
4.875		2366	1787
4.924		1780	672
4.958		2138	503
5.036		11774	22097
5.09		2753	2004
5.143		6977	8010
5.202		2174	1743
5.241		2695	1867
5.328		2497	1647
5.39		12702	10334

RT A	Compound A	Height A	Area A
5.448		21828	71768
5.534		1755	1352
5.557		9999	10577
5.642		3111	2032
5.695		7794	11447
5.757		12681	22600
5.833		2007	1369
5.889		1379	2687
5.9		1891	723
5.961		3719	4912
5.977		8987	7396
6.083		4473	10976
6.106		1923	1501
6.163		3022	2577
6.332		26372	77945
6.379		6211	8816
6.406		1342	747
6.454		1786	1611
6.522		2099	3093
6.562		26624	39545
6.673		2770	7297
6.681		2219	666
6.708		3662	4557
6.761		1536	972
6.802		1299	634
6.934		2351	2892
6.954		1481	592
6.987		2376	1080
7.023		23778	30820
7.111		2180	2598
7.197	DCB	2121335	2988768
7.411		2163	1103
7.481		1788	610
7.559		5518	16591
7.64		7135	9189
7.701		2159	3611
7.779		1904	1712
7.854		1868	1902
7.894		2221	1877
7.978		1933	681
8.006		2114	1034
8.067		2280	877
8.096		2374	622
8.153		2468	1566
8.235		1811	994
8.254		3526	4719
8.299		1366	907
8.455		1815	711
8.485		2227	1134
8.599		2169	1145

ASX73 1842

LANCASTER LABORATORIES

Sample Number: IBLKX1224C PFPIBLKPF PIBLK1220599999 Injection Volume: 1SW-846 8082
Injected On: 7/24/2012 11:21:38 PM Analyst: 2855
Instrument ID: CP20-17342
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: 3p20205B.0006.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.524		16816	11794
2.595		406776	918889
2.629		343299	524369
2.669		256302	329985
2.709		179587	210523
2.728		151296	181546
2.748		98977	81572
2.787		25615	45797
2.811		15358	14749
2.842		153783	1094643
2.916		38778	16645
2.941		55223	119071
2.977		267176	288837
3.031		42584	43096
3.066	TCX	85225850	58092800
3.143		18499	13651
3.172		14977	3940
3.194		135607	126046
3.215		182539	103508
3.258		253425	576793
3.293		1153327	845946
3.34		42610	49876
3.369		24357	19488
3.416		263904	224246
3.478		46803	36186
3.505		240241	209914
3.542		188490	243702
3.573		30460	42457
3.586		20199	19980
3.612		24409	10122
3.64		21720	16914
3.658		16549	5944
3.671		24271	20064
3.702		22364	16656
3.729		18119	11399
3.75		64059	44002
3.771		444930	726402
3.836		328840	1035146
3.875		103954	191475
3.938		11709	5247
3.948		18278	11431
3.98		35120	72983
4.027		10368	6453
4.041		283132	863965
4.115		767006	3106075
4.201		226139	457052
4.238		41990	53819
4.277		48546	87951
4.321		380278	1374097
4.414		425772	1538699
4.452		13901	10601
4.503		36104	53358
4.554		32995	42092
4.581		27072	37890

ASX73 1843

RT B	Compound B	Height B	Area B
4.621		116855	723586
4.706		929175	2194750
4.766		63509	560699
4.808		25489	24667
4.852		10132	3047
4.872		50636	121944
4.94		628161	1283476
5.021		113933	670760
5.082		78658	147041
5.13		17488	29377
5.222		453872	2068465
5.341		210452	1185085
5.366		4568	3633
5.376		20225	21109
5.458		52012	88348
5.519		11839	8854
5.543		309235	741039
5.677		18608	1743010
5.687		7891	3859
5.713		21928	26867
5.773		11570	9855
5.785		25811	13389
5.824		229979	752343
5.905		259261	599466
5.929		20952	61624
6.012		40002	73361
6.074		29083	36997
6.106		115288	345062
6.189		292305	344724
6.264		14913	82246
6.284		20463	39856
6.351		104323	508396
6.476		168416	1118534
6.547		43955	66433
6.609		358054	630471
6.693		149802	477282
6.777	DCB	32691350	33197500
6.93		95034	634599
7.185		7818	9125
7.239		10448	4737
7.317		39189	49536
7.384		5676	13692
7.512		38595	57756
7.689		7097	3130
7.727		4033	1576
7.76		28891	57948
7.898		7343	4300
7.94		10041	8834
8.021		15050	16012
8.07		7398	3664
8.142		3354	3124
8.166		6839	5017
8.207		6470	2904
8.312		5780	5577
8.406		6977	12237
8.508		7427	4179
8.684		5421	5225

ASX73 1844

IBLKX1224C PFPIBLKPF PIBLK1220599999 SW-846 8082

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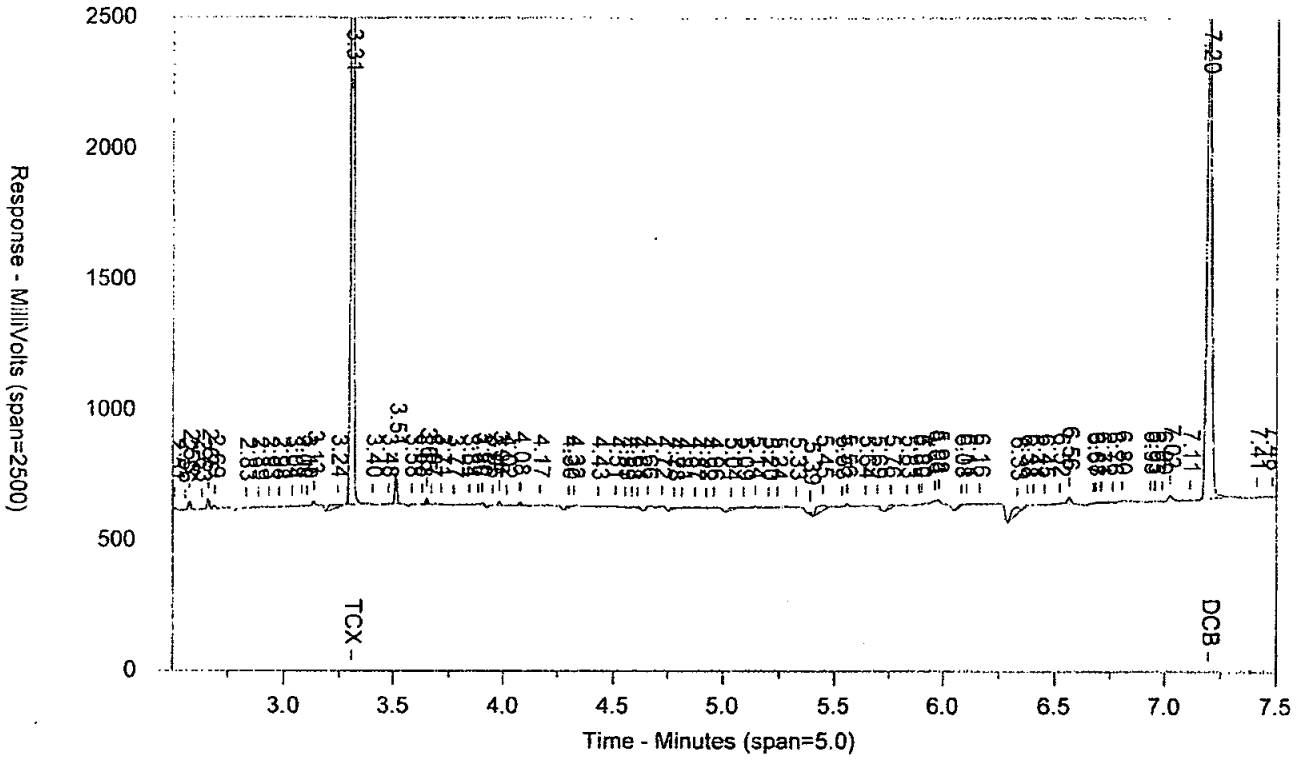

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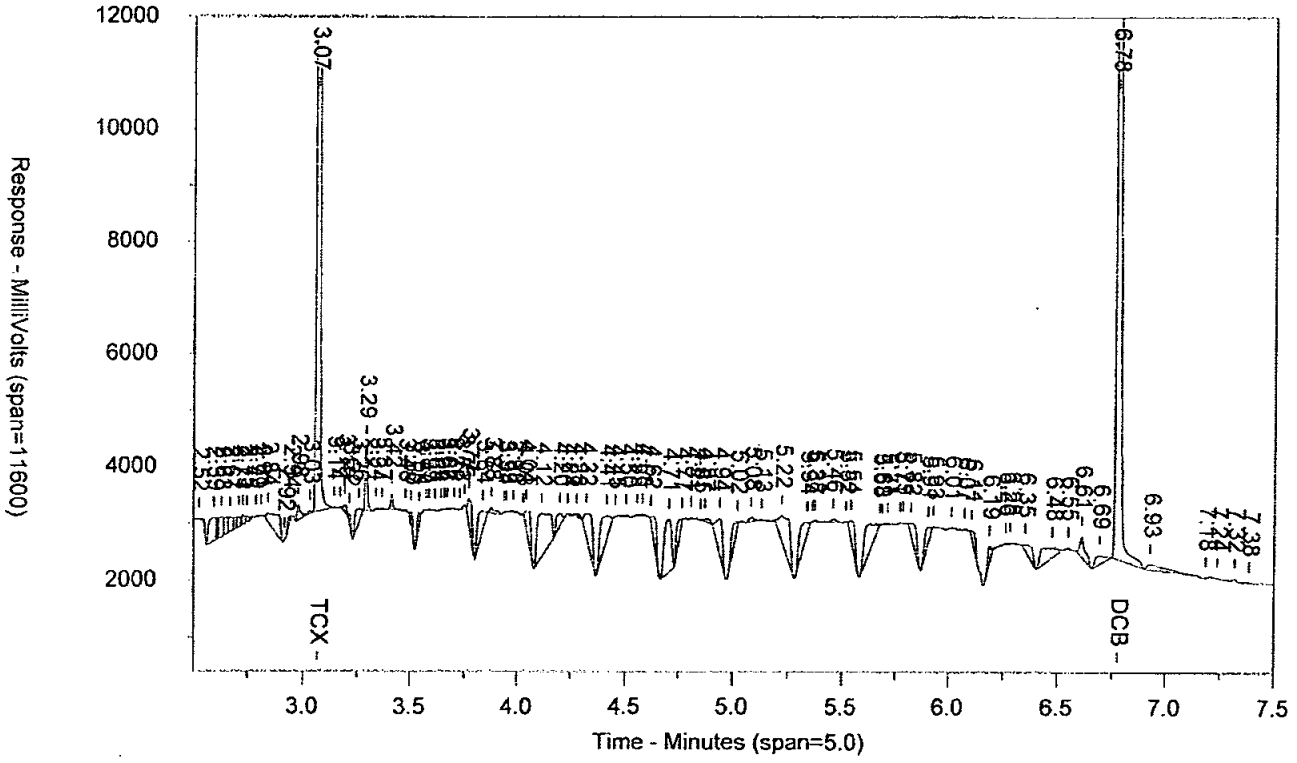

ASX73 1845

LANCASTER LABORATORIES

Sample Number: IBLKX1224C PFPIBLKPF PIBLK1220599999 Sample WeightSW846 8082
Injected On: 7/24/2012 11:21:38 PM Dilution Factor: 10
Instrument ID: CP20-17342
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
3.306	6008189	.236	TCX	3.066	85225850	.236	TCX
7.197	2121335	.211	DCB	6.777	32691350	.182	DCB

Files:
Area File: 3p20205.0006.RAW
Area File: 3p20205B.0006.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/24/2012 11:30:21 PM
File Reported On: 7/24/2012 at 11:30:26 PM

ASX73 1846

IBLKX1224C PFPIBLKPF PIBLK1220599999 SW-846 8082

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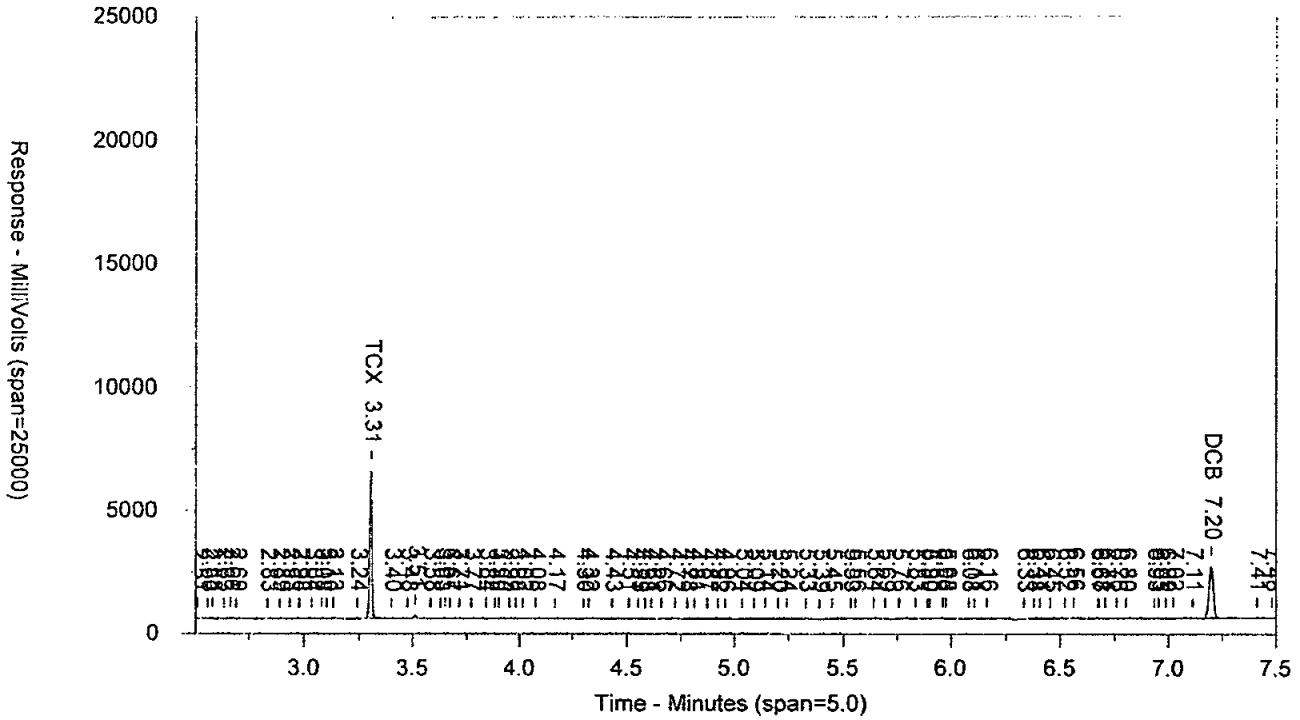

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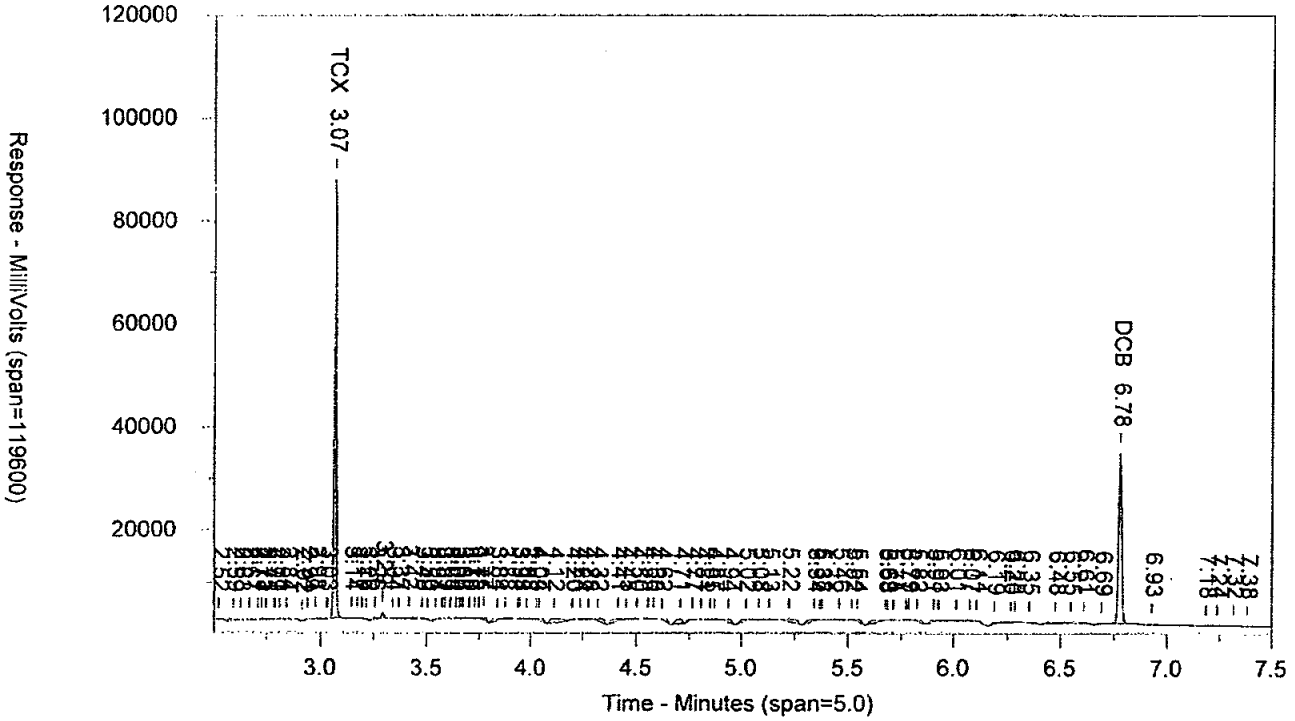

ASX73 1047

LANCASTER LABORATORIES

Sample Number: AR1631224B XMAR163XM CCAL 1220599999 Injection Volume: 1 uISW-846 8082
Injected On: 7/25/2012 12:30:35 AM Analyst: 2855
Instrument ID: CP20-17342
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: 3p20205.0012.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.51		8361	4666
2.554		6636	4977
2.577		78568	61396
2.663		31296	25657
2.69		31965	25897
2.74		3170	3938
2.79		1811	1871
2.838		2873	2661
2.888		2537	1564
2.929		21116	17708
2.977		1598	858
3.021		19838	14945
3.076		2349	1587
3.101		2002	952
3.133		5437	4287
3.217		8380	18765
3.306	TCX	11900030	9004115
3.375		3029	2685
3.409		3306	2475
3.428		2648	947
3.456		221063	209639
3.514		466331	369381
3.566		1209136	953372
3.628		9445	6458
3.663		186537	172924
3.703		4036	3002
3.79		1131495	826322
3.809		550317	345172
3.849		168987	114914
3.868		31037	13883
3.883		118389	74892
3.917		1434245	1226990
3.953		8944	5452
3.983		12180	8037
3.998		41387	27478
4.037		339800	246083
4.055		195720	118292
4.104		679438	473910
4.118		1333254	850478
4.159		1617187	1500849
4.226		1438236	1342763
4.27		113680	82850
4.297		954165	834893
4.328		693918	664228
4.353		219176	134213
4.437		1066628	938484
4.465		392470	311287
4.499		460574	394334
4.538		1134236	1345759
4.584		387598	376438
4.63		61796	57777
4.675		89276	89864
4.713		967065	853469
4.734		234169	145349

ASX73 1848

RT A	Compound A	Height A	Area A
4.762		357182	314125
4.834		187046	186062
4.881		1092042	1171975
4.948		5539	4150
4.989		8228	8214
5.037		58357	57337
5.093		105994	78490
5.112		317818	272640
5.158		633119	684842
5.207		1073477	1351381
5.247		249000	193722
5.288		2145732	2315085
5.34		6737	4759
5.38		415099	486149
5.437		499345	568904
5.49		1915183	1860664
5.511		344051	226870
5.544		553507	531116
5.584		1264599	1591576
5.664		278754	325198
5.699		2715323	3229162
5.762		1434981	1459116
5.805		970373	1029848
5.928		1699999	2595976
5.986		899741	866749
6.026		454401	473758
6.069		102159	102219
6.108		629740	646377
6.164		3477422	3615935
6.191		59370	61204
6.246		16879	70586
6.309		17872	19188
6.373		1975132	2208963
6.415		88001	156359
6.425		162697	135661
6.466		4234	4337
6.528		1450	4170
6.539		2652	1189
6.564		117215	126700
6.621		54390	50674
6.649		363490	386569
6.719		2266	2958
6.762		5225	5227
6.804		843297	949509
6.851		66006	84957
6.944		2346	3203
7.023		305649	375497
7.114		2975	2743
7.198	DCB	3990769	5762895
7.409		14824	25953
7.559		7682	14677
7.64		20308	45509
7.827		3769	5515
7.907		2732	1352
8.032		2669	840
8.064		3216	4436
8.115		10140	29549
8.211		1891	1782
8.253		10641	28651
8.403		1454	722
8.429		2564	1987
8.449		1517	931
8.471		1496	696
8.485		1981	2836
8.553		5371	11240
8.613		1805	1367

ASX73 1849

RT A	Compound A	Height A	Area A
8.648		2082	478
8.674		6748	8808

ASX73 1850

LANCASTER LABORATORIES

Sample Number: AR1631224B XMAR163XM CCAL 1220599999 Injection Volume: 1 uSW-846 8082
Injected On: 7/25/2012 12:30:35 AM Analyst: 2855
Instrument ID: CP20-17342
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: 3p20205B.0012.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.524		9026	8136
2.546		16252	5617
2.568		49455	82534
2.631		30607	24758
2.651		28422	21158
2.667		28356	20440
2.691		19974	7709
2.703		21371	20417
2.733		163923	120052
2.779		11673	3230
2.803		180563	130743
2.845		19615	12703
2.878		23742	128099
2.936		91109	133620
2.977		71686	81337
3.022		27031	27910
3.066	TCX	165940100	119360400
3.108		1085645	884598
3.194		231325	212179
3.238		2475888	2154322
3.301		3297287	3607335
3.357		13501260	9664155
3.416		536043	404932
3.476		1869889	1404440
3.51		43131	31102
3.532		33816	20656
3.572		10990420	6415432
3.584		3941135	1676874
3.626		2327691	1649522
3.651		999859	645860
3.676		1434908	907405
3.702		16544900	13511130
3.738		602363	425574
3.785		4520388	2926187
3.804		2502517	1479233
3.859		11604000	6411463
3.871		21882010	11767980
3.894		223470	100886
3.909		19036840	15595690
3.993		21243720	15945790
4.026		13150100	9199830
4.054		14230060	10545610
4.075		4556788	2834171
4.174		9369096	8721957
4.203		6084002	4066767
4.225		5679908	3954073
4.263		2025689	1210022
4.28		14351620	10187510
4.331		4986154	4778903
4.378		700427	633756
4.403		3978374	2800699
4.429		19391020	15071720
4.458		4461440	3261510
4.483		134085	83076

ASX73 1851

RT B	Compound B	Height B	Area B
4.497		1783696	1275885
4.537		15249280	13126690
4.585		496082	420190
4.603		984818	1021776
4.666		67265	48881
4.707		1228650	1352269
4.772		3796501	4465434
4.827		843248	853163
4.853		14146270	14877950
4.884		6965217	7775605
4.942		36819190	33721520
4.99		576724	484044
5.019		2398136	1814327
5.043		6956586	6461742
5.09		43867820	41962560
5.153		23959	9338
5.172		76326	64220
5.209		41075190	40016330
5.27		3549756	3352787
5.304		10234620	9100661
5.345		43335230	40306630
5.376		23736070	18541450
5.417		15707630	14168480
5.483		82672	59154
5.523		5603589	6352035
5.577		29928760	26876650
5.605		3238748	2489479
5.652		14929110	14290070
5.689		5733525	4269761
5.709		3452185	2249565
5.765		70776070	71359680
5.806		1277992	1153748
5.849		1450187	1288297
5.882		74121	58230
5.96		295800	237592
5.982		12404680	11162150
6.029		48257170	49396170
6.11		704981	2452458
6.189		1397443	1408259
6.224		965783	871354
6.256		448578	399661
6.306		5583979	5429422
6.406		11452500	11190590
6.437		608182	471553
6.549		61948	91142
6.611		3799745	3830924
6.646		149856	153211
6.778	DCB	76460320	74068790
6.891		150693	242458
6.972		51209	82987
7.154		196464	317802
7.236		96576	105597
7.316		62412	87133
7.445		89639	149284
7.513		39682	55866
7.611		21092	27094
7.651		11844	6740
7.691		7408	4509
7.766		100600	206655
7.884		6767	4677
7.963		9795	8309
8.021		33222	52348
8.059		5083	2388
8.155		11993	34299
8.17		7039	3236
8.28		5439	2605

ASX73 1852

RT B	Compound B	Height B	Area B
8.396		33066	97669
8.52		11108	18342
8.551		9372	3218
8.604		37409	93135

AR1631224B XMAR163XM CCAL 1220599999 SW-846 8082

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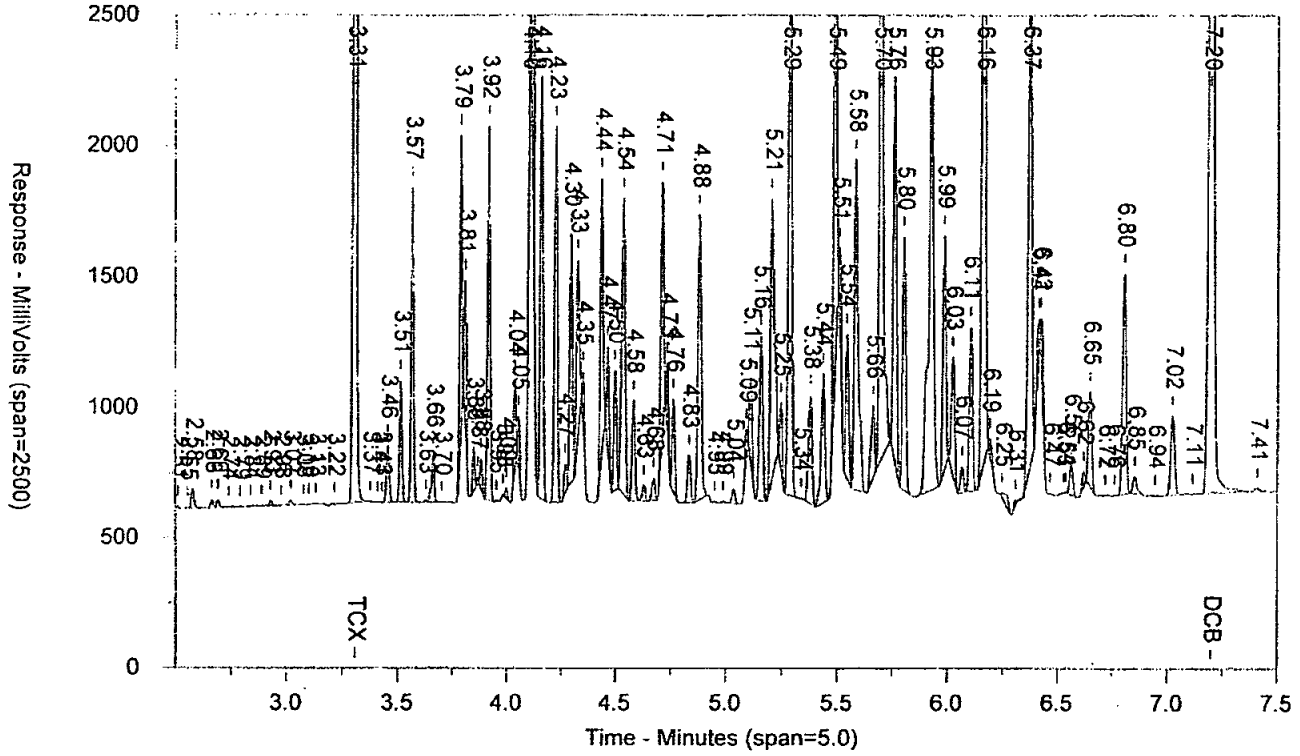

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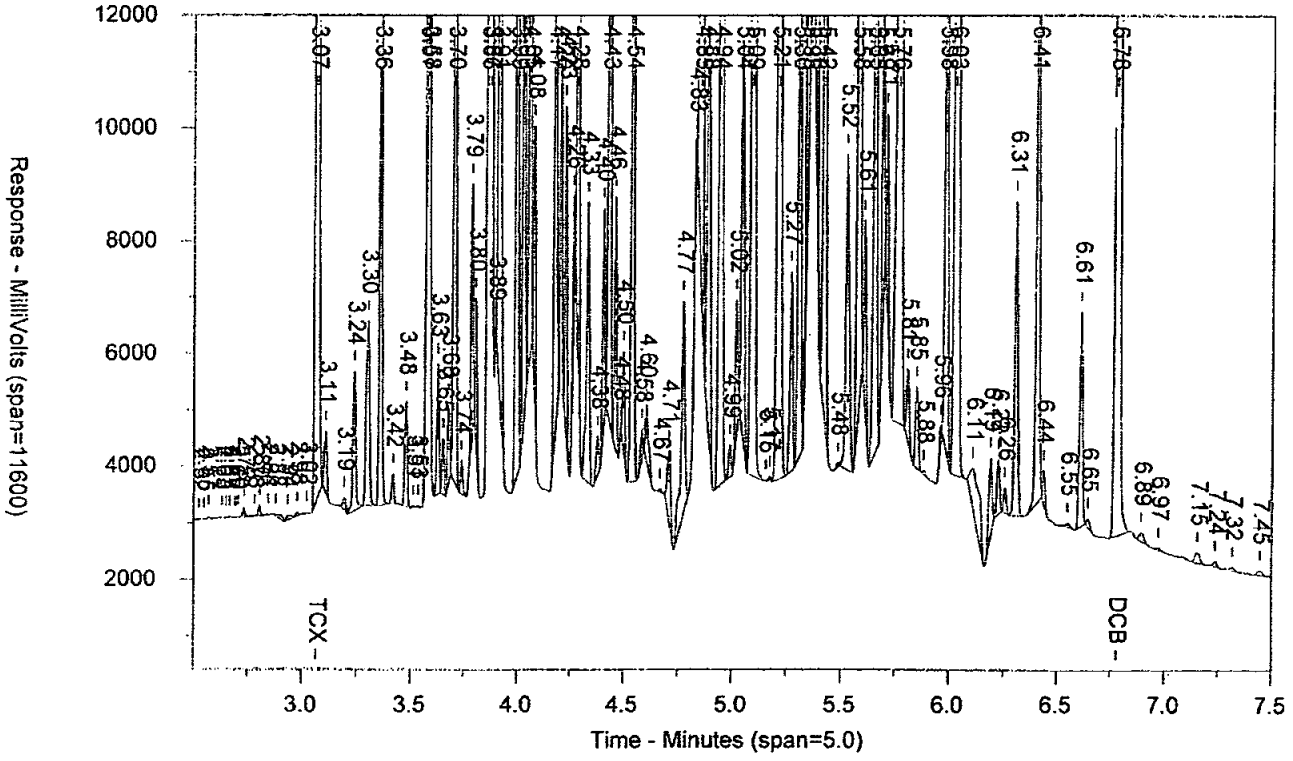

ASX73 1854

LANCASTER LABORATORIES

Sample Number: AR1631224B XMAR163XM CCAL 1220599999 Sample Weight: SW-846 8082
Injected On: 7/25/2012 12:30:35 AM Dilution Factor: 1
Instrument ID: CP20-17342
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
3.306	11900030	46.764	TCX	3.066	165940100	45.984	TCX
7.198	3990769	39.683	DCB	6.778	76460320	42.536	DCB

Files:
Area File: 3p20205.0012.RAW
Area File: 3p20205B.0012.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/25/2012 12:39:17 AM
File Reported On: 7/25/2012 at 12:39:24 AM

AR1631224B XMAR163XM CCAL 1220599999 SW-846 8082

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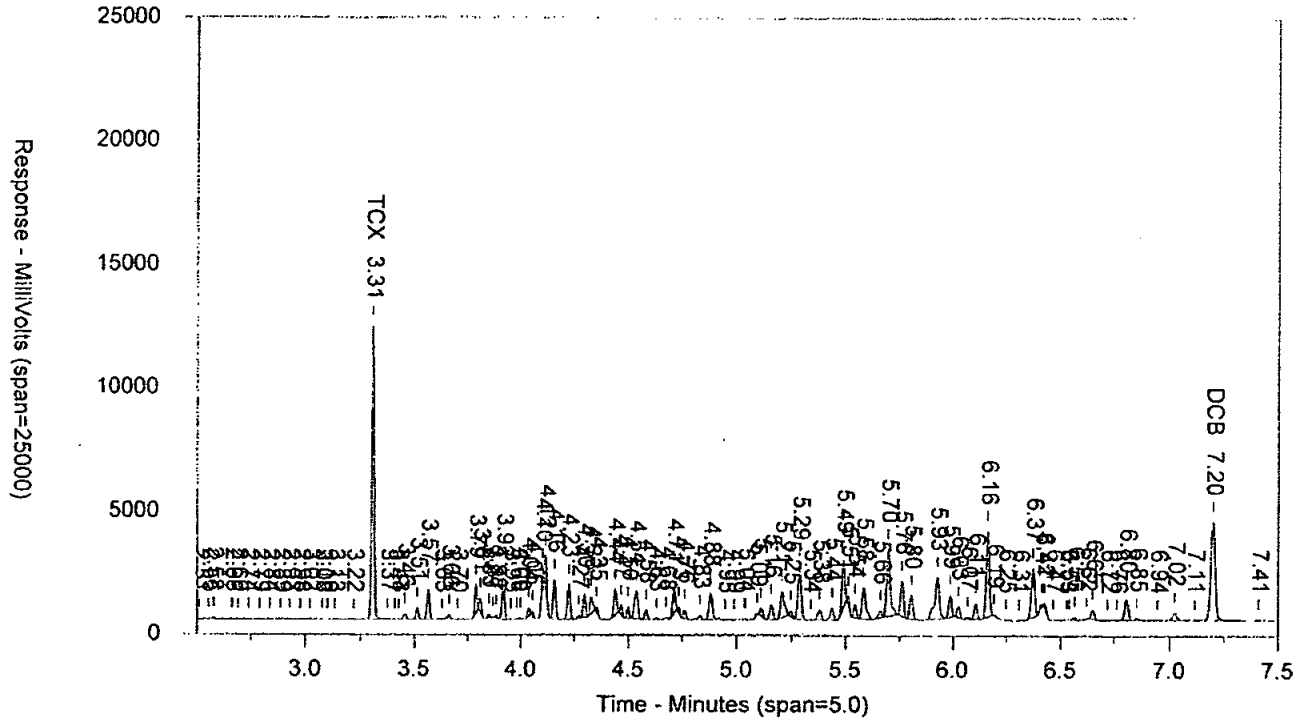

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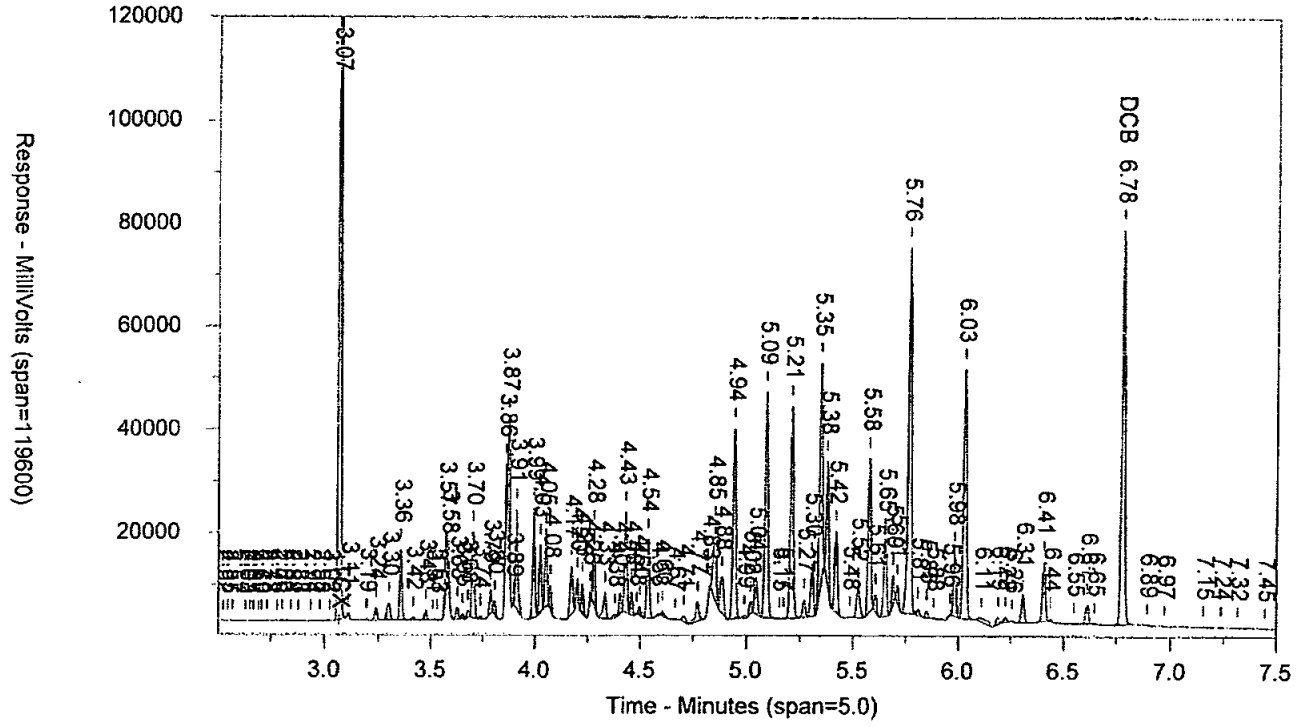

LANCASTER LABORATORIES

Sample Number: IBLKX1224C PGPIBLKPG PIBLK1220599999 Injection Volume: 1 SW-846 8082
Injected On: 7/25/2012 12:42:04 AM Analyst: 2855
Instrument ID: CP20-17342
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: 3p20205.0013.RAW
Method File: PESTDI20.MET
Calibration File: 1p20205.CAL

RT A	Compound A	Height A	Area A
2.512		16271	11601
2.577		38864	33225
2.618		2754	2216
2.642		3460	1664
2.662		41402	33935
2.691		16036	13732
2.731		2188	1382
2.807		3001	9142
2.828		1607	988
2.847		2301	834
2.886		3003	1969
2.93		4952	4442
2.979		2829	1572
3.052		1587	4832
3.074		8080	6508
3.133		11508	8416
3.232		9513	59323
3.248		2486	763
3.306	TCX	6130281	4670245
3.43		2081	1960
3.466		1839	1227
3.512		127897	116308
3.584		5858	6248
3.599		1512	657
3.624		3210	2453
3.648		28074	22990
3.716		3434	4899
3.795		1221	543
3.839		2830	1450
3.88		3705	3732
3.904		13063	12999
3.939		8995	10785
3.982		18953	20586
4.077		19421	19035
4.17		5157	8008
4.25		4749	9052
4.297		3590	3553
4.331		3126	3644
4.359		2363	1438
4.406		3176	2679
4.48		2527	749
4.515		4079	3929
4.662		17902	31684
4.722		1827	3107
4.777		13798	28614
4.802		2564	2102
4.838		2873	1855
4.959		10766	40075
5.036		16957	49792
5.114		3050	2275
5.145		8112	9369
5.241		2736	1099
5.256		2461	2376
5.303		1744	926

ASX73 1857

RT A	Compound A	Height A	Area A
5.388		16546	14800
5.428		16324	24778
5.445		5368	5451
5.557		12974	17748
5.618		2058	1603
5.761		15827	37280
5.868		1786	453
5.976		25901	98763
6.09		4304	15839
6.116		2327	2671
6.163		2312	1655
6.256		11296	36819
6.335		21282	72048
6.376		16617	41701
6.483		1516	1068
6.541		1008	1566
6.562		25641	35820
6.694		1129	14065
6.709		2434	2327
6.761		3001	2063
6.817		5371	11671
6.884		2488	1990
6.932		4976	7620
7.023		23548	28789
7.109		1650	887
7.196	DCB	2110232	3038711
7.438		1978	677
7.504		1480	862
7.523		1657	879
7.605		3201	3242
7.64		2987	2008
7.744		2036	791
7.841		1827	1066
7.869		2211	581
7.909		2254	3928
7.97		2044	981
8.091		2758	1302
8.146		1735	1325
8.22		1232	466
8.251		5280	8033
8.319		2774	1876
8.39		2585	1525
8.414		1550	800
8.487		2264	1251
8.54		1545	506
8.556		2188	1407
8.61		1716	1250
8.658		2128	1899
8.68		7392	8128

ASX73 1858

LANCASTER LABORATORIES

Sample Number: IBLKX1224C PGPIBLKPG PIBLK1220599999 Injection Volume: 1 8W-846 8082
Injected On: 7/25/2012 12:42:04 AM Analyst: 2855
Instrument ID: CP20-17342
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: 3p20205B.0013.RAW
Method File: PESTDI20B.MET
Calibration File: 1P20205b.CAL

RT B	Compound B	Height B	Area B
2.507		10264	4477
2.522		121412	533607
2.601		483129	1416278
2.633		396169	1046786
2.669		296682	488810
2.715		180254	315018
2.729		150214	219331
2.793		13757	6236
2.803		16943	7181
2.822		6702	2522
2.843		38173	36248
2.886		128466	206430
2.943		394102	754511
2.977		153054	146417
3.026		84751	76946
3.066	TCX	85570250	59009760
3.147		17758	10112
3.192		166749	167687
3.214		190565	109566
3.255		326776	680670
3.293		1197416	843652
3.336		50656	57754
3.375		31852	34998
3.416		282009	265224
3.476		57361	55511
3.504		293943	258091
3.543		118276	225620
3.564		24748	11765
3.576		23309	27513
3.632		18298	8658
3.653		11629	3989
3.667		17269	14524
3.698		24441	21896
3.728		21068	13054
3.75		66717	42116
3.771		89525	39422
3.781		317890	182758
3.827		372944	757197
3.875		83948	80637
3.98		22782	88471
4.043		546527	1386316
4.123		293283	1177135
4.147		12555	4540
4.203		287858	685429
4.243		29915	38542
4.277		55836	92512
4.322		417646	1357711
4.414		406912	1470337
4.467		28610	52252
4.493		19716	31561
4.569		22011	16708
4.636		297294	389557
4.706		1152492	2598712
4.769		481699	1593434

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RT B	Compound B	Height B	Area B
4.812		23907	50106
4.873		14297	3441
4.937		590782	1292608
5.033		323829	1657943
5.082		90039	153945
5.135		25246	35584
5.161		12381	4853
5.19		12728	8000
5.219		346216	1837344
5.338		122595	845900
5.376		32324	38105
5.427		12226	7762
5.463		54968	87853
5.517		13341	5652
5.541		18016	7064
5.631		298404	1043559
5.669		21695	22895
5.712		33763	40762
5.784		29608	49336
5.822		12079	6990
5.904		259884	573469
5.944		34792	64953
6.013		34826	67605
6.079		35983	41638
6.114		150795	195852
6.19		294930	371641
6.233		27371	55239
6.263		14547	18889
6.284		24793	30577
6.316		26115	21691
6.348		79163	496006
6.452		192573	776171
6.545		33730	39674
6.609		368837	648788
6.694		151798	493689
6.776	DCB	32583070	34636740
6.927		94477	324375
7.192		10444	13188
7.211		15608	6260
7.316		34149	41015
7.364		8981	4248
7.388		9652	7600
7.508		36341	58179
7.728		4127	2185
7.754		24814	36745
7.887		4879	10208
7.946		9930	7121
8.016		19838	26650
8.15		7887	13080
8.223		6284	5526
8.297		4017	4159
8.324		7659	4691
8.423		4473	2835
8.486		6655	4648
8.546		3252	10922
8.592		4846	1084
8.636		6095	4591

ASX73 1868

IBLKX1224C PGPIBLKPG PIBLK1220599999 SW-846 8082

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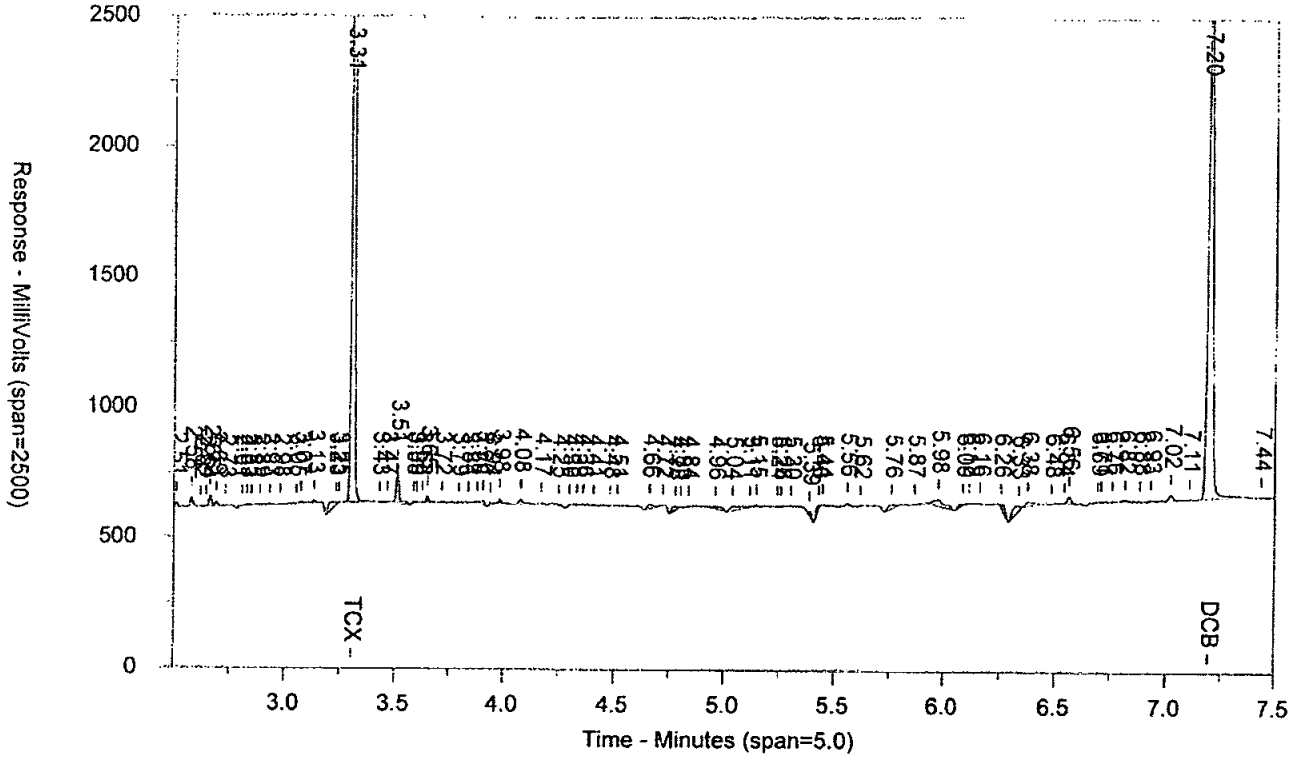

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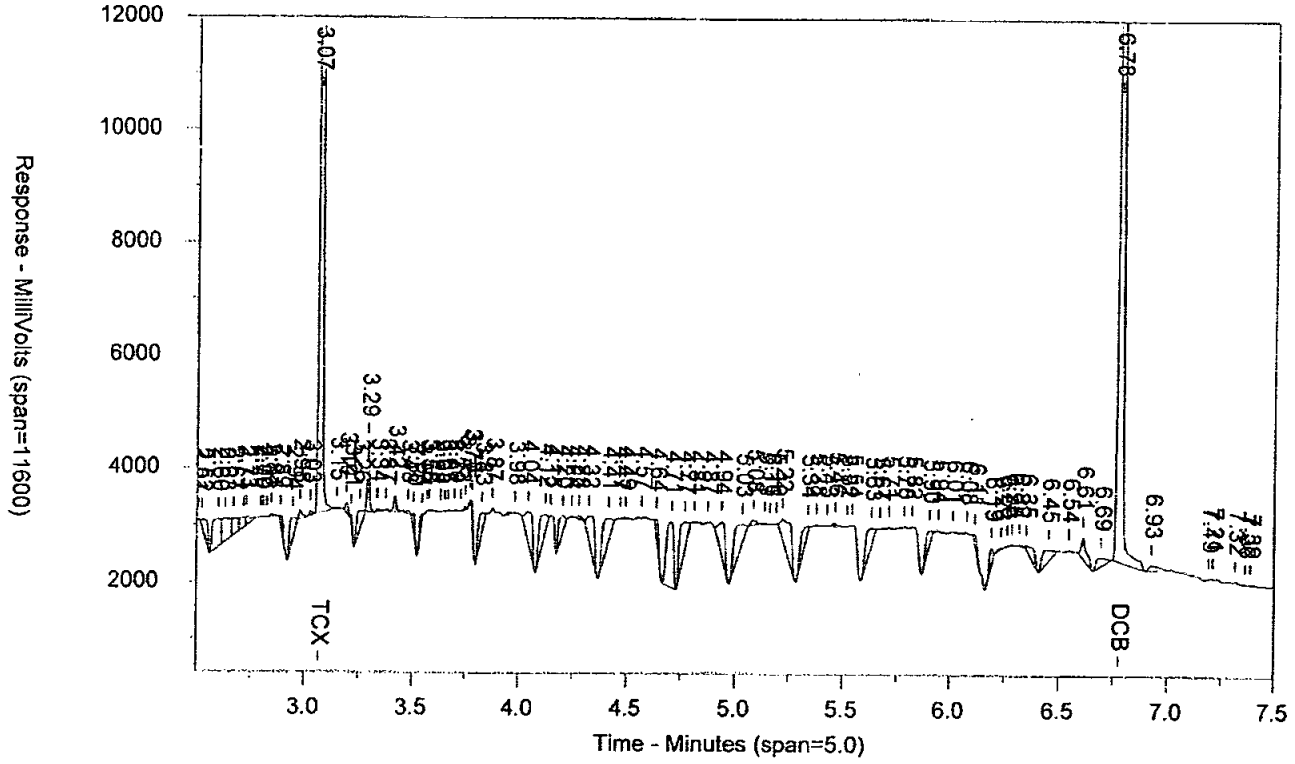

ASX73 1061

LANCASTER LABORATORIES

Sample Number: IBLKX1224C PGPIBLKPG PIBLK1220599999 Sample Weight: 8082
Injected On: 7/25/2012 12:42:04 AM Dilution Factor: 10
Instrument ID: CP20-17342
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
3.306	6130281	.241	TCX	3.066	85570250	.237	TCX
7.196	2110232	.21	DCB	6.776	32583070	.181	DCB

Files:
Area File: 3p20205.0013.RAW
Area File: 3p20205B.0013.RAW
Method A: PESTDI20.MET
Method B: PESTDI20B.MET
Calibration File A: 1p20205.CAL
Calibration File B: 1P20205b.CAL
Format A: pestD20.FMTA
Format B: pestD20.FMTB
Area File Created On: 7/25/2012 12:50:46 AM
File Reported On: 7/25/2012 at 12:50:52 AM

ASX73 1862

IBLKX1224C PGPIBLKPG PIBLK1220599999 SW-846 8082

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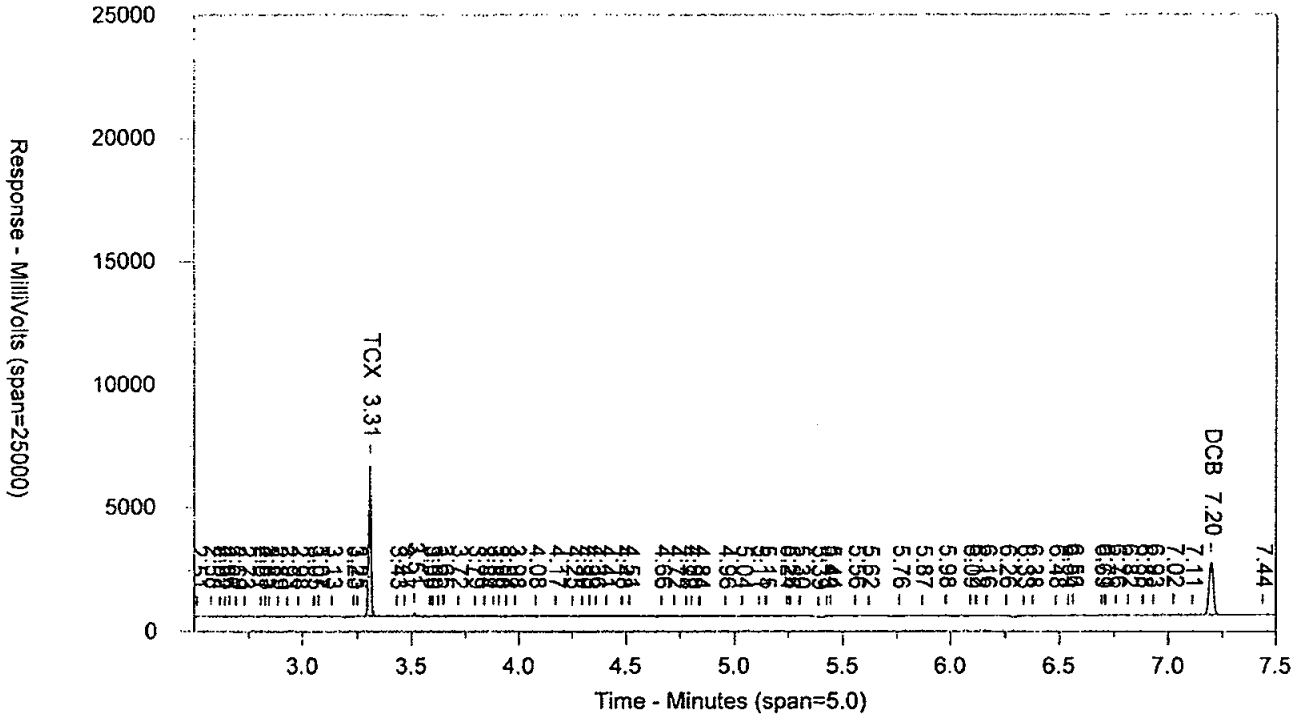

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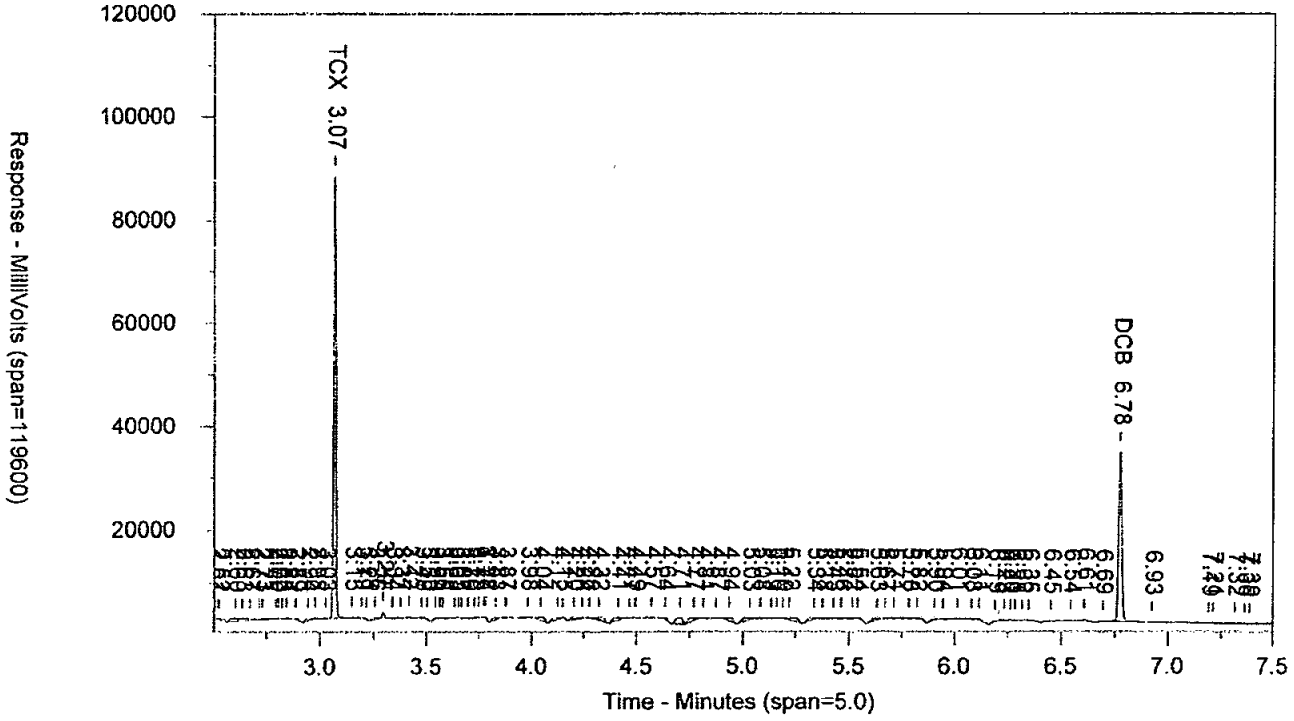

Raw QC Data

Data Summary

Sample Name: BLANKA 7/17/12AF PBLK13199 BLK Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ML Total Volume: 10 ml Analyst: 3172 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on	Jul 20, 2012 02:45:19
Instrument	H5088A
Result file	9P7190.018.RAW
Calibration file	1P7190
Method file	PESTDI7

%SSR(TCX) 81% (55 - 132) Conc: 0.251089
%SSR(DCB) 87% (36 - 153) Conc: 0.260038

Analysis Report (B)

Injected on	Jul 20, 2012 02:45:19
Instrument	H5088B
Result file	9P7190B.018.RAW
Calibration file	1P7190B
Method file	PESTDI7B

%SSR(TCX) 99% (55 - 132) Conc: 0.305448
%SSR(DCB) 95% (36 - 153) Conc: 0.284819

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.85	3.88	268266	0.251089	Tetrachloro-m-xylene	3.66	3.69	3.72	112505	0.305448
Decachlorobiphenyl	9.23	9.25	9.29	147699	0.260038	Decachlorobiphenyl	8.68	8.70	8.74	107984	0.284819

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
Tetrachloro-m-xylene	B	0.305448				19.53	
Decachlorobiphenyl	B	0.284819				9.10	

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
Aroclor-1016			<0.5	<0.1			4	40	
Aroclor-1221			<0.5	<0.1			3	40	
Aroclor-1232			<0.5	<0.2			4	40	
Aroclor-1242			<0.5	<0.1			4	40	
Aroclor-1248			<0.5	<0.1			4	40	
Aroclor-1254			<0.5	<0.1			4	40	
Aroclor-1260			<0.5	<0.15			4	40	
Aroclor-1262			<0.5	<0.2			4	40	
Aroclor-1268			<0.5	<0.16			4	40	
Total PCBs			<0.5	<0.2					

Units: ug/l

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

Reviewed by: Monica M. Souders, Chemist
Date: JUL 20 2012

Verified by: Jennifer E. Lewis, Manager
Date: JUL 25 2012

7/20/2012

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: BLANKA 7/17/12AF PBLK13199 Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ML Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on : JUL 20, 2012 02:45:19
Instrument : CP 7--H5088A
Result file : 9p7190.018.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

MDL

%SSR(TCX) : 81% (55-132) Conc.: 0.251089
%SSR(DCB) : 87% (36-153) Conc.: 0.260038

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1221					1		
4.11	4.13	4.17	3764.091553	0.377258			2
Height Summation:			**3764.091553**				
Amount Avg CF:			**0.377258**	Linear:			
Aroclor-1248					2	**39.09**	
5.42	5.47	5.48	1931.108154	0.114168			4
6.14	6.14	6.20	2388.172119	0.20139			5
Height Summation:			**4319.280273**				
Amount Avg CF:			**0.157779**	Linear:			
Aroclor-1254					3	**55.44**	
5.82	5.85	5.88	951.290649	0.0326			1
6.14	6.14	6.20	2388.172119	0.064908			2
6.54	6.56	6.60	2153.993164	0.108447			4
Height Summation:			**5493.455932**				
Amount Avg CF:			**0.068652**	Linear:			
Aroclor-1260					2	**27.50**	
6.29	6.32	6.35	1211.537476	0.03704			1
6.52	6.56	6.58	2153.993164	0.054926			2
Height Summation:			**3365.530640**				
Amount Avg CF:			**0.045983**	Linear:			
Aroclor-1262					1		
6.52	6.56	6.58	2153.993164	0.079006			1
Height Summation:			**2153.993164**				
Amount Avg CF:			**0.079006**	Linear:			
Aroclor-1268					3	**65.18**	
7.97	7.99	8.03	1172.488892	0.016349			3
8.08	8.13	8.14	101.778717	0.005691			4
8.87	8.89	8.93	1192.002075	0.005948			6
Height Summation:			**2466.269684**				
Amount Avg CF:			**0.009329**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 02:45:19
Instrument : CP 7--H5088B
Result file : 9p7190B.018.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : 99% (55-132) Conc.: 0.305448
%SSR(DCB) : 95% (36-153) Conc.: 0.284819

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					3	**76.49**	
4.51	4.57	4.58	271.634583	0.028346			3
4.98	4.98	5.04	176.993683	0.032269			5
5.27	5.28	5.33	702.085449	0.10208			6
Height Summation:			**1150.713715**				
Amount Avg CF:			**0.054232**	Linear:			
Aroclor-1221					1		
3.98	3.99	4.04	1175.615356	0.336082			2
Height Summation:			**1175.615356**				
Amount Avg CF:			**0.336082**	Linear:			
Aroclor-1232					2	**10.31**	
4.35	4.41	4.41	415.509888	0.059512			2
4.52	4.57	4.58	271.634583	0.051426			3
Height Summation:			**687.144471**				
Amount Avg CF:			**0.055469**	Linear:			
Aroclor-1242					1		
4.52	4.57	4.58	271.634583	0.034341			3
Height Summation:			**271.634583**				
Amount Avg CF:			**0.034341**	Linear:			
Aroclor-1248					1		
5.96	5.97	6.02	661.936279	0.105295			5
Height Summation:			**661.936279**				
Amount Avg CF:			**0.105295**	Linear:			
Aroclor-1254					2	**6.79**	
5.96	5.97	6.02	661.936279	0.030119			2
6.39	6.39	6.45	306.996643	0.033157			5
Height Summation:			**968.932922**				
Amount Avg CF:			**0.031638**	Linear:			
Aroclor-1260					3	**149.70**	
6.25	6.26	6.31	198.180588	0.009287			1
6.39	6.39	6.45	306.996643	0.01605			2
6.76	6.80	6.82	543.560242	0.254223			4
Height Summation:			**1048.737473**				
Amount Avg CF:			**0.093187**	Linear:			
Aroclor-1262					1		
6.39	6.39	6.45	306.996643	0.019376			1
Height Summation:			**306.996643**				
Amount Avg CF:			**0.019376**	Linear:			
Aroclor-1268					2	**79.18**	
7.61	7.63	7.67	779.219116	0.016166			3
8.34	8.37	8.40	612.180176	0.004561			6
Height Summation:			**1391.399292**				
Amount Avg CF:			**0.010364**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0.5	0.1			4	40	
Aroclor-1221			0.5	0.1		11.54	3	40	
Aroclor-1232			0.5	0.2			4	40	

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: BLANKA 7/17/12AF PBLK13199Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ML Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on : JUL 20, 2012 02:45:19
Instrument : CP 7--H5088A
Result file : 9p7190.018.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Analysis Report (B)

Injected on : JUL 20, 2012 02:45:19
Instrument : CP 7--H5088B
Result file : 9p7190B.018.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1242			0.5	0.1			4	40	
Aroclor-1248			0.5	0.1		39.90	4	40	
Aroclor-1254			0.5	0.1		** 73.81	4	40	
Aroclor-1260			0.5	0.15		** 67.84	4	40	
Aroclor-1262			0.5	0.2		** 121.22	4	40	
Aroclor-1268			0.5	0.16		10.51	4	40	
Total PCBs			0.5	0.2					

Units: ug/l

LANCASTER LABORATORIES

Sample Number: BLANKA 7/17/12AF ABPBLK13199 BLK 121990013A 10227 Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 2:45:19 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.018.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.603		14337	46835
1.78		2262	8204
2.032		1248	9365
2.172		2484	9754
2.256		1546	3386
2.351		658	2407
2.553		256	473
2.628		4198	9816
2.813		4982	18547
2.921		5938	8466
3.015		2005	6325
3.13		26198	44971
3.273		372	840
3.351		1351	3100
3.422		337	549
3.498		551	1023
3.593		1047	4579
3.788		4768	7016
3.854	TCX	268266	564097
4.022		407	522
4.13		3764	8242
4.288		3963	8949
4.467		326	1153
4.601		876	1291
4.775		801	2519
4.872		578	752
5.026		1504	13292
5.471		1931	32687
5.53		167	253
5.583		544	972
5.64		560	1012
5.751		257	986
5.847		951	9570
6.144		2388	14076
6.318		1212	9841
6.563		2154	69258
7.987		1172	3514
8.127		102	418
8.888		1192	17220
9.25	DCB	147700	572760

ASX73 1858

LANCASTER LABORATORIES

Sample Number: BLANKA 7/17/12AF ABPBLK13199 BLK 121990013A 10227 Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 2:45:19 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.018.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.596		105568	1119788
2.177		521	3702
2.584		1034	2976
2.741		933	2495
2.952		458	3090
3.013		6524	13176
3.425		391	1700
3.694	TCX	112505	222921
3.994		1176	2233
4.126		1579	3482
4.41		416	873
4.567		272	775
4.833		184	521
4.984		177	538
5.277		702	3899
5.412		644	2663
5.624		527	4945
5.965		662	3756
6.26		198	3360
6.394		307	883
6.525		278	900
6.8		544	4452
7.635		779	1801
8.368		612	1439
8.553		340	1931
8.705	DCB	107984	301638

ASX73 1869

BLANKA 7/17/12AF ABPBLK13199 BLK 121990013A 10227 SW-846 8082

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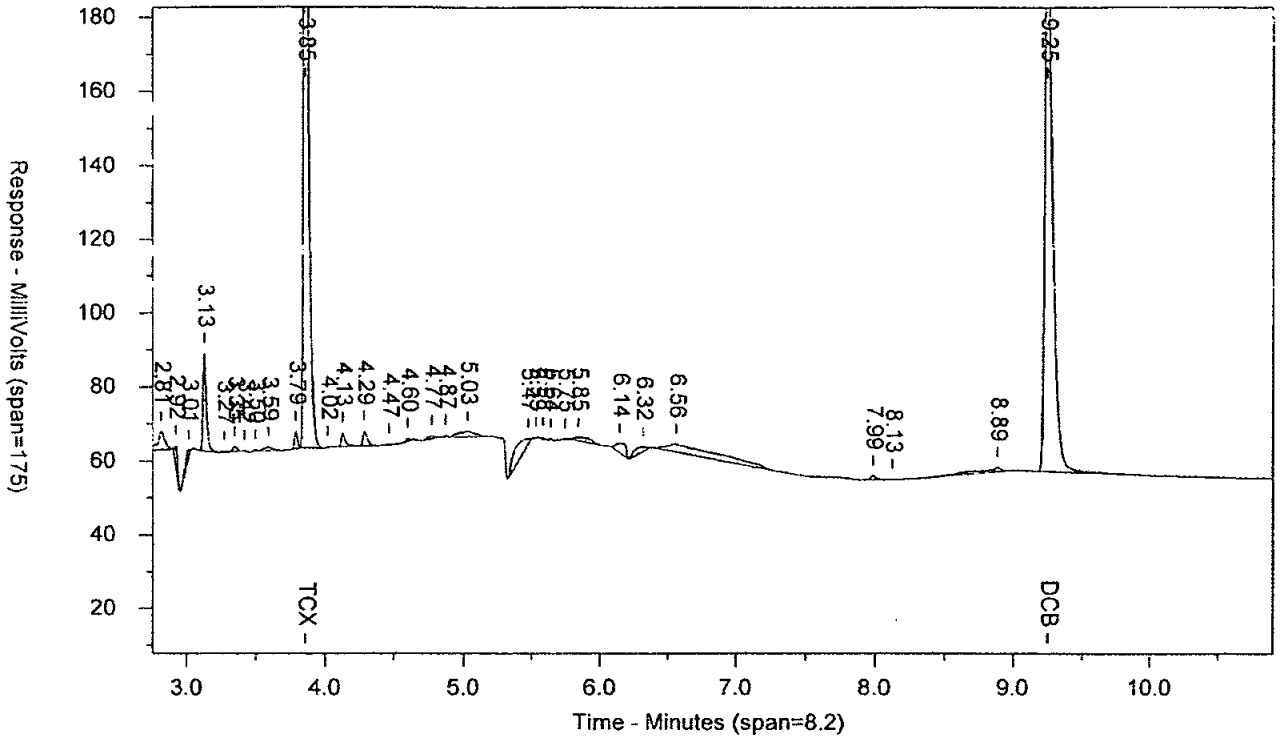

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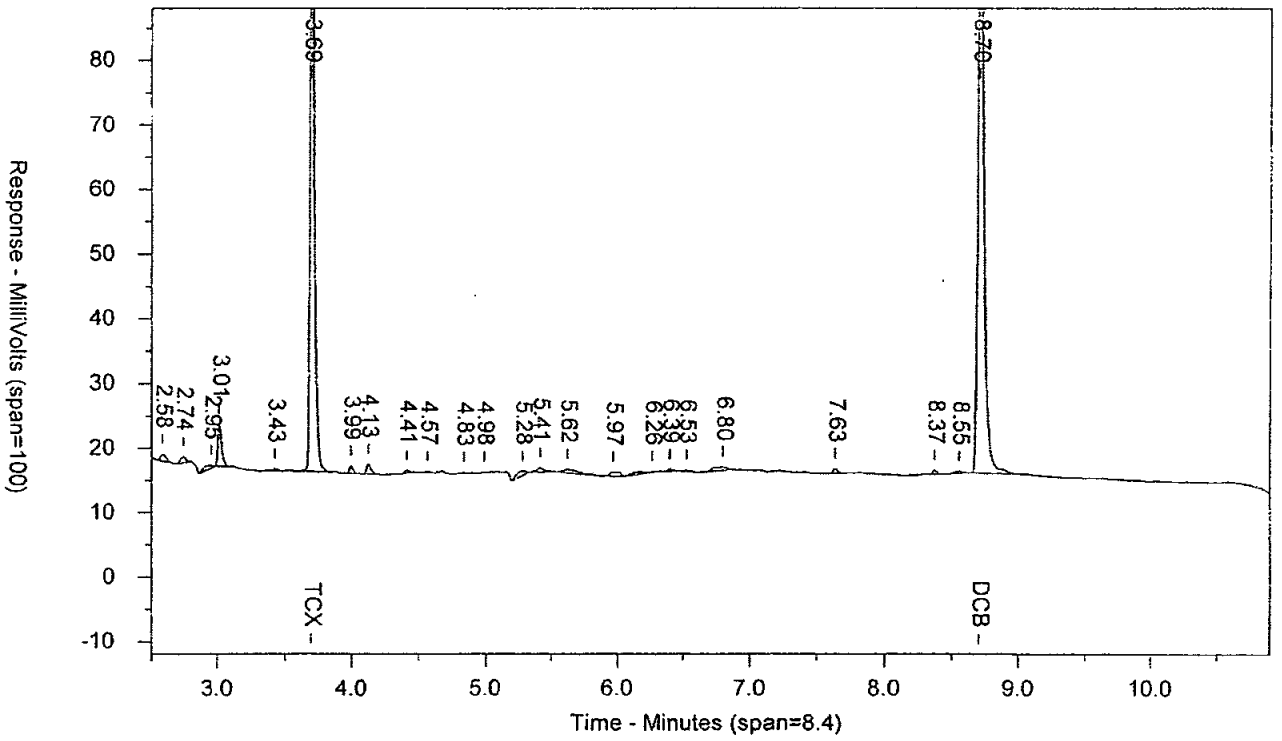

09X73 1878

LANCASTER LABORATORIES

Sample Number: BLANKA 7/17/12AF ABPBLK13199 BLK 121990013A 10227 Sample Weight: 1000 SW-846 8082
Injected On: 7/20/2012 2:45:19 AM Dilution Factor: 10
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.854	268266	.251	TCX	3.694	112505	.305	TCX
9.25	147700	.26	DCB	8.705	107984	.285	DCB

Files:
Area File: 9p7190.018.RAW
Area File: 9p7190B.018.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 2:55:54 AM
File Reported On: 7/20/2012 at 2:56:18 AM

ASX73 1871

BLANKA 7/17/12AF ABPBLK13199 BLK 121990013A 10227 SW-846 8082

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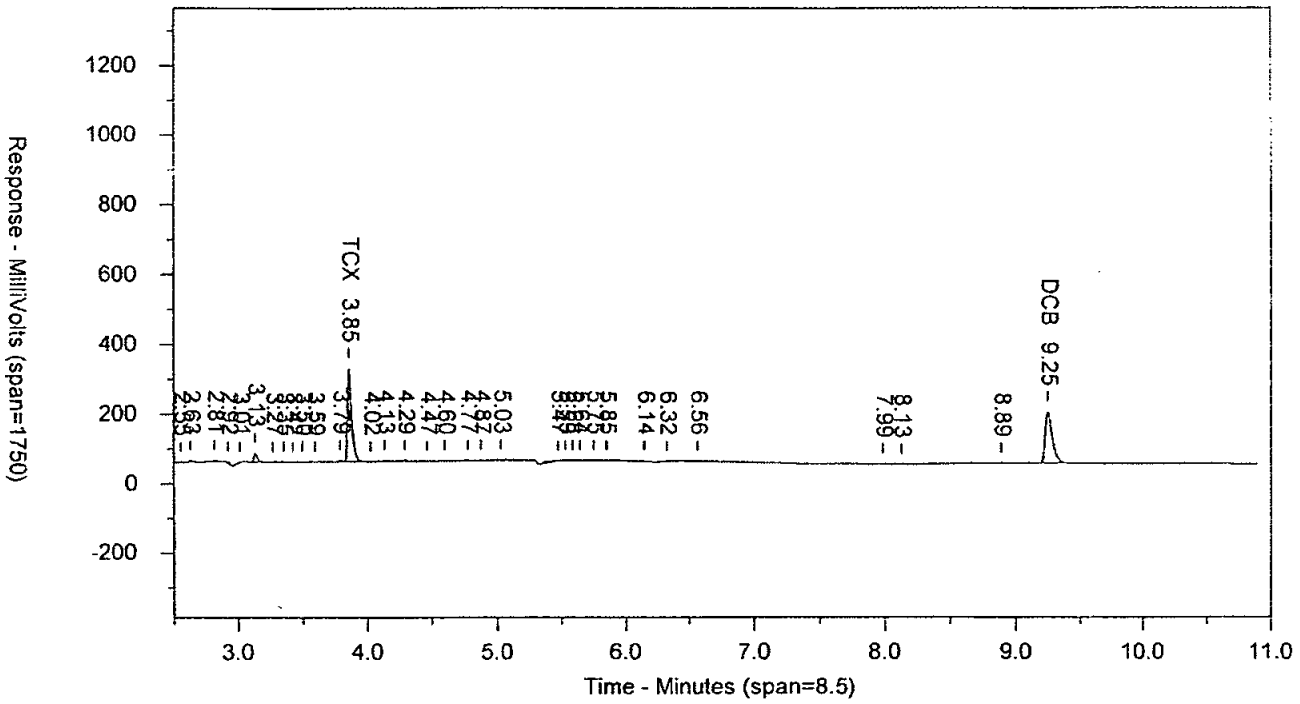

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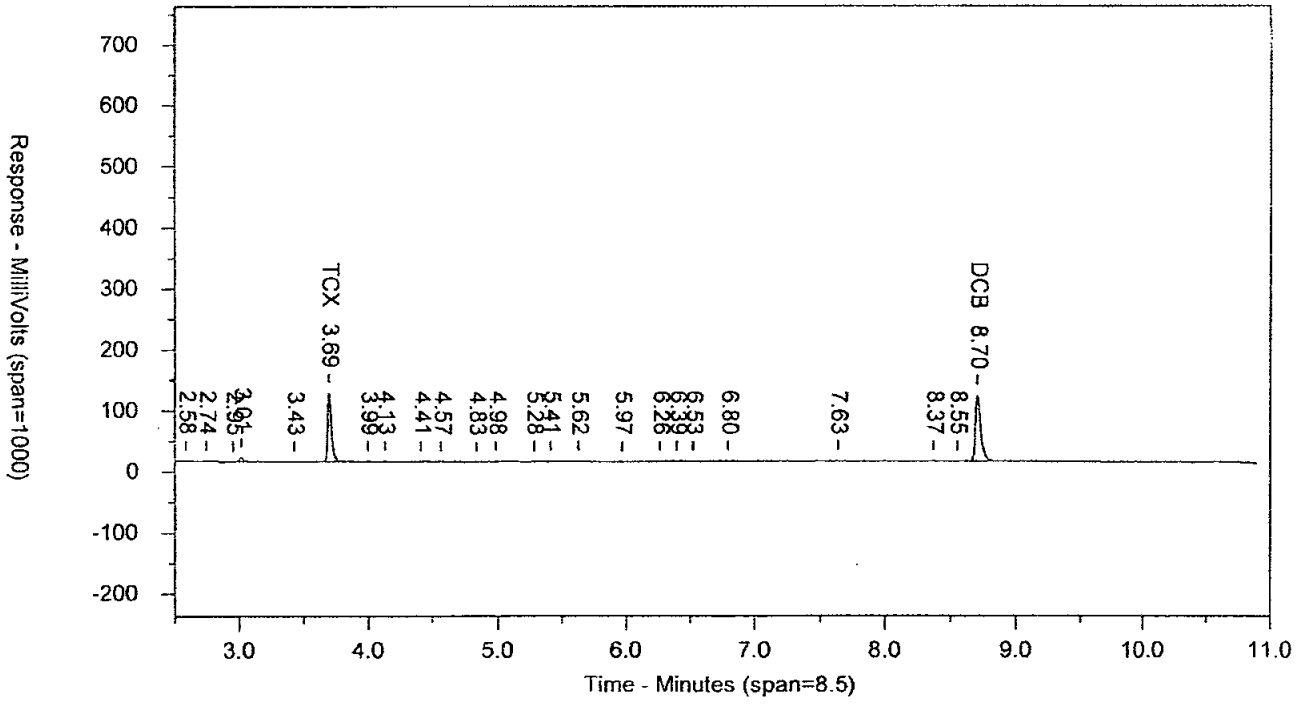

ASX73 1872

Data Summary

Sample Name: BLANKA 7/18/12ACF PBLK24199 BLK Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 10 ml Analyst: 3172 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 04:13:38
Instrument	H5088A
Result file	9P7190.024.RAW
Calibration file	1P7190
Method file	PESTDI7

%SSR(TCX) 85% (33 - 143) Conc: 8.735197
%SSR(DCB) 87% (24 - 164) Conc: 8.653959

Analysis Report (B)

Injected on	Jul 20, 2012 04:13:38
Instrument	H5088B
Result file	9P7190B.024.RAW
Calibration file	1P7190B
Method file	PESTDI7B

%SSR(TCX) 101% (33 - 143) Conc: 10.400743
%SSR(DCB) 95% (24 - 164) Conc: 9.502278

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.85	3.88	279983	8.735197	Tetrachloro-m-xylene	3.66	3.69	3.72	114926	10.400743
Decachlorobiphenyl	9.23	9.25	9.29	147499	8.653959	Decachlorobiphenyl	8.68	8.70	8.74	108078	9.502278

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
Tetrachloro-m-xylene	B	10.400743				17.41	
Decachlorobiphenyl	B	9.502278				9.34	

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
Aroclor-1016			<17	<3.6			4	40	
Aroclor-1221			<17	<4.6			3	40	
Aroclor-1232			<17	<8			4	40	
Aroclor-1242			<17	<3.3			4	40	
Aroclor-1248			<17	<3.3			4	40	
Aroclor-1254			<17	<3.3			4	40	
Aroclor-1260			<17	<4.9			4	40	
Aroclor-1262			<17	<3.3			4	40	
Aroclor-1268			<17	<3.3			4	40	
Total PCBs			<17	<3.3					

Units: ug/kg

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

Reviewed by: Monica M. Souders
Chemist
Date: JUL 20 2012

Verified by: Jennifer E. Lewis
Manager
Date: JUL 25 2012

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: BLANKA 7/18/12ACF PBLK24199 Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 04:13:38
Instrument : CP 7--H5088A
Result file : 9p7190.024.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

MDL

%SSR(TCX) : 85% (33-143) Conc.: 8.735197
%SSR(DCB) : 87% (24-164) Conc.: 8.653959

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					1		
4.64	4.64	4.70	571.305847	0.790599			2
Height Summation:			**571.305847**				
Amount Avg CF:			**0.790599**	Linear:			
Aroclor-1221					1		
4.11	4.13	4.17	4353.463379	14.544269			2
Height Summation:			**4353.463379**				
Amount Avg CF:			**14.544269**	Linear:			
Aroclor-1242					1		
4.64	4.64	4.70	571.305847	1.019188			2
Height Summation:			**571.305847**				
Amount Avg CF:			**1.019188**	Linear:			
Aroclor-1248					1		
6.40	6.44	6.46	366.563538	1.236361			6
Height Summation:			**366.563538**				
Amount Avg CF:			**1.236361**	Linear:			
Aroclor-1254					4	129.93	
5.82	5.84	5.88	284.560211	0.325053			1
6.14	6.14	6.20	129.911987	0.117695			2
6.39	6.44	6.45	366.563538	0.408225			3
6.54	6.54	6.60	1398.055664	2.346263			4
Height Summation:			**2179.091400**				
Amount Avg CF:			**0.799309**	Linear:			
Aroclor-1260					1		
6.52	6.54	6.58	1398.055664	1.188335			2
Height Summation:			**1398.055664**				
Amount Avg CF:			**1.188335**	Linear:			
Aroclor-1262					1		
6.52	6.54	6.58	1398.055664	1.709313			1
Height Summation:			**1398.055664**				
Amount Avg CF:			**1.709313**	Linear:			
Aroclor-1268					3	54.00	
7.97	7.99	8.03	1141.215698	0.530444			3
8.08	8.11	8.14	123.510826	0.230214			4
8.87	8.89	8.93	1320.463745	0.219642			6
Height Summation:			**2585.190269**				
Amount Avg CF:			**0.326767**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 04:13:38
Instrument : CP 7--H5088B
Result file : 9p7190B.024.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : 101% (33-143) Conc.: 10.400743
%SSR(DCB) : 95% (24-164) Conc.: 9.502278

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1221					1		
3.98	3.99	4.04	1230.394043	11.724738			2
Height Summation:			**1230.394043**				
Amount Avg CF:			**11.724738**	Linear:			
Aroclor-1254					1		
5.96	5.96	6.02	595.339966	0.90295			2
Height Summation:			**595.339966**				
Amount Avg CF:			**0.90295**	Linear:			
Aroclor-1260					1		
6.76	6.82	6.82	667.755371	10.41032			4
Height Summation:			**667.755371**				
Amount Avg CF:			**10.41032**	Linear:			
Aroclor-1262					1		
6.81	6.82	6.87	667.755371	1.062789			3
Height Summation:			**667.755371**				
Amount Avg CF:			**1.062789**	Linear:			
Aroclor-1268					2	78.34	
7.61	7.64	7.67	816.761658	0.564836			3
8.34	8.37	8.40	652.917664	0.162144			6
Height Summation:			**1469.679322**				
Amount Avg CF:			**0.36349**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			17	3.6			4	40	
Aroclor-1221			17	4.6		21.47	3	40	
Aroclor-1232			17	8			4	40	
Aroclor-1242			17	3.3			4	40	
Aroclor-1248			17	3.3			4	40	
Aroclor-1254			17	3.3		12.18	4	40	
Aroclor-1260			17	4.9		** 159.02	4	40	
Aroclor-1262			17	3.3		** 46.65	4	40	

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: BLANKA 7/18/12ACF PBLK24199 Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 04:13:38
Instrument : CP 7--H5088A
Result file : 9p7190.024.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Analysis Report (B)

Injected on : JUL 20, 2012 04:13:38
Instrument : CP 7--H5088B
Result file : 9p7190B.024.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1268			17	3.3		10.64	4	40	
Total PCBs			17	3.3					

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: BLANKA 7/18/12ACF ABPBLK24199 BLK 121990024A 10736 Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 4:13:38 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.024.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.55		903	1191
1.599		2517	7395
1.783		975	3312
2.054		424	1507
2.167		549	3235
2.553		280	473
2.809		7187	17529
2.925		1461	2549
3.009		1988	3302
3.129		2029	3659
3.268		209	499
3.349		656	1585
3.588		343	1627
3.772		151	232
3.854	TCX	279984	593635
4.131		4353	14088
4.313		604	890
4.643		571	2571
4.774		582	1721
5.027		2230	23855
5.59		842	5985
5.757		250	1441
5.842		285	642
6.139		130	204
6.234		339	2344
6.441		367	398
6.543		1398	54337
7.988		1141	3072
8.105		124	224
8.889		1320	15072
9.252	DCB	147499	570501

ASX73 1876

LANCASTER LABORATORIES

Sample Number: BLANKA 7/18/12ACF ABPBLK24199 BLK 121990024A 10738njection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 4:13:38 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.024.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.597		45770	491777
2.727		1657	4049
2.889		241	552
3.01		346	579
3.694	TCX	114926	226151
3.994		1230	2549
4.45		365	1327
4.83		413	1504
5.083		157	1086
5.259		137	701
5.405		295	1393
5.959		595	3633
6.816		668	4315
7.635		817	2013
8.369		653	1971
8.568		297	1405
8.704	DCB	108078	304296

ASX73 1087

BLANKA 7/18/12ACF ABPBLK24199 BLK 121990024A 10736 SW-846 8082

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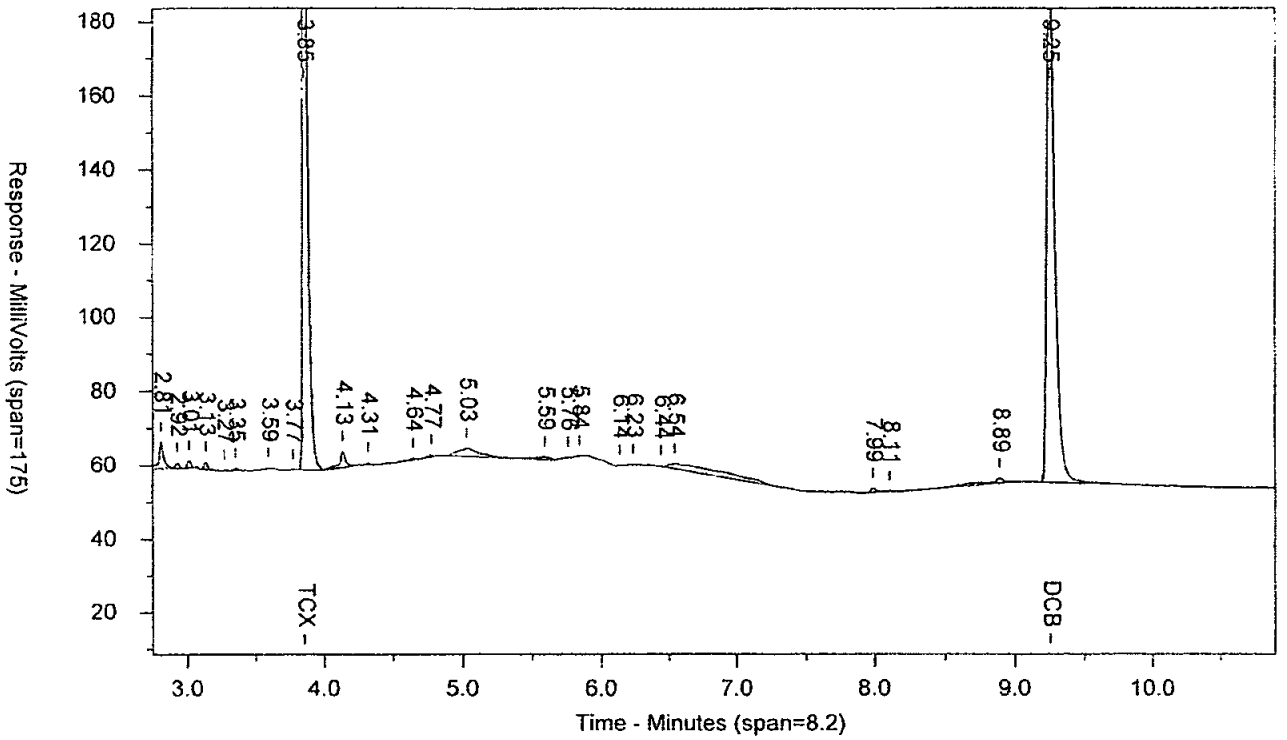

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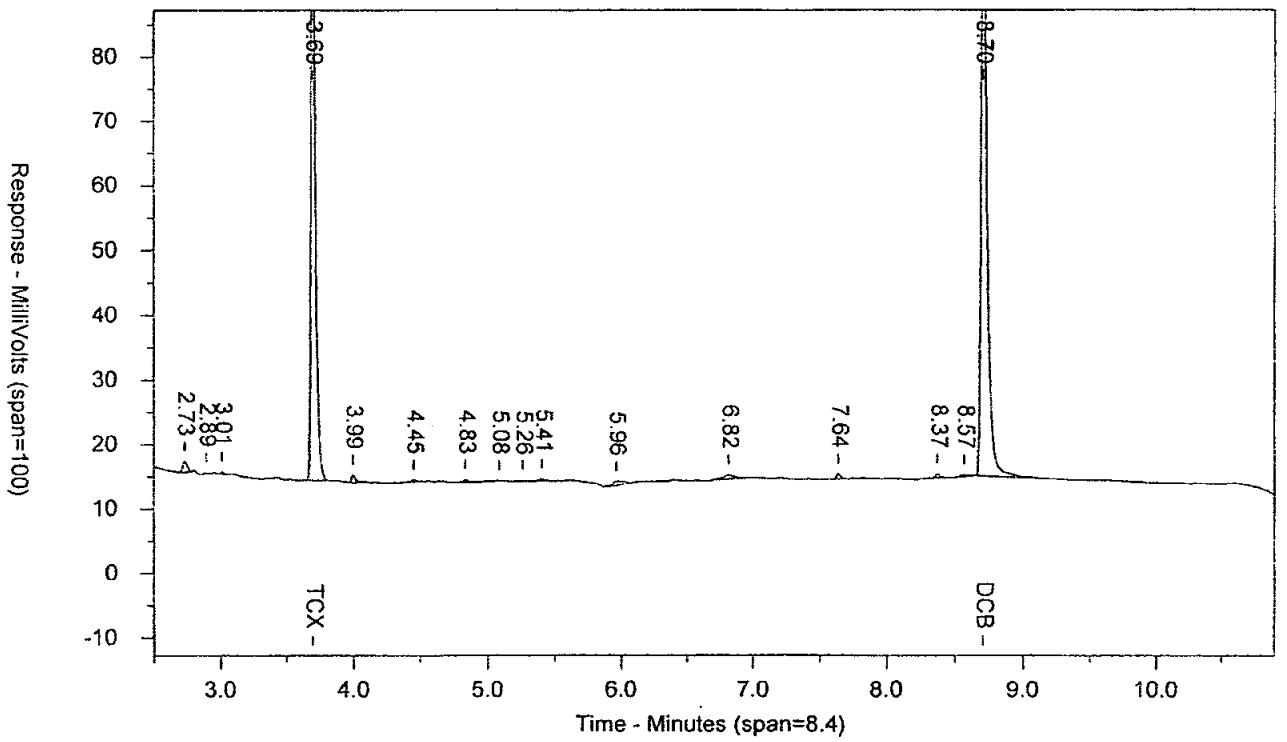

ASX73 1878

LANCASTER LABORATORIES

Sample Number: BLANKA 7/18/12ACF ABPBLK24199 BLK 121990024A 10736 Sample Weight: 30 SW-846 8082
Injected On: 7/20/2012 4:13:38 AM Dilution Factor: 10
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.854	279984	8.735	TCX	3.694	114926	10.401	TCX
9.252	147499	8.654	DCB	8.704	108078	9.502	DCB

Files:
Area File: 9p7190.024.RAW
Area File: 9p7190B.024.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 4:24:13 AM
File Reported On: 7/20/2012 at 4:24:38 AM

ASX73 1879

BLANKA 7/18/12ACF ABPBLK24199 BLK 121990024A 10736 SW-846 8082

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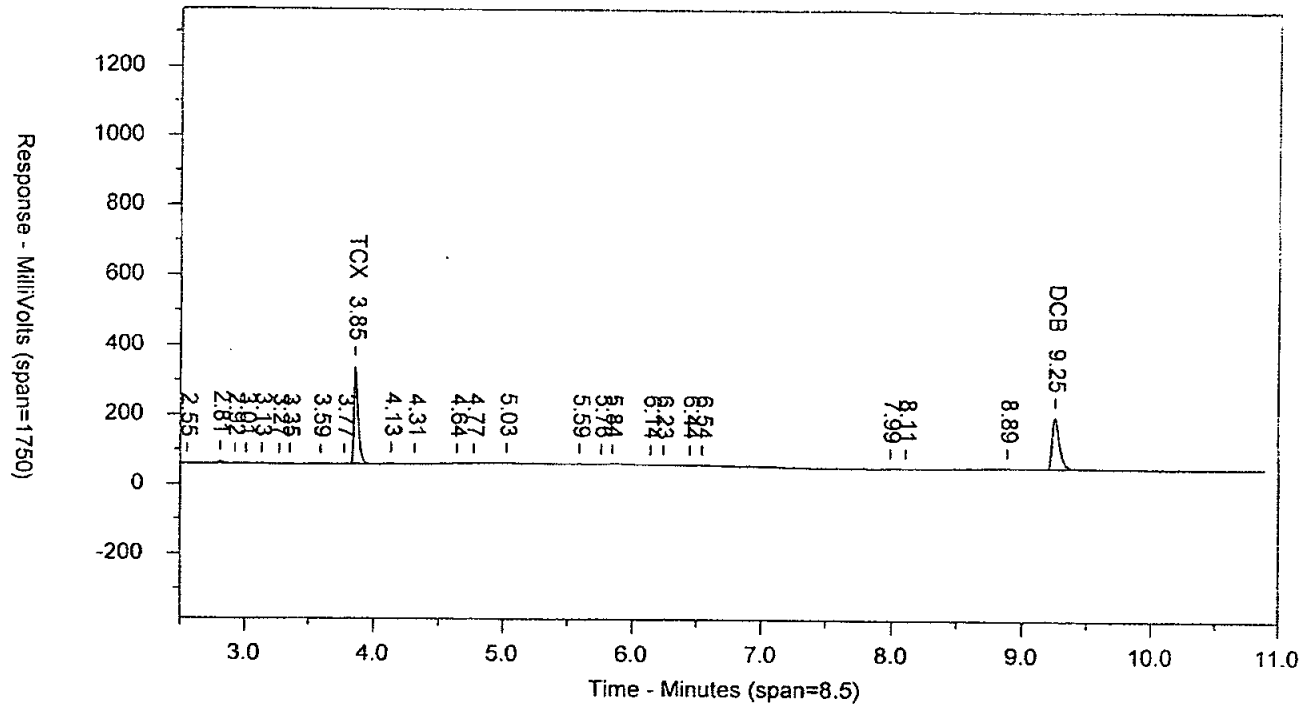

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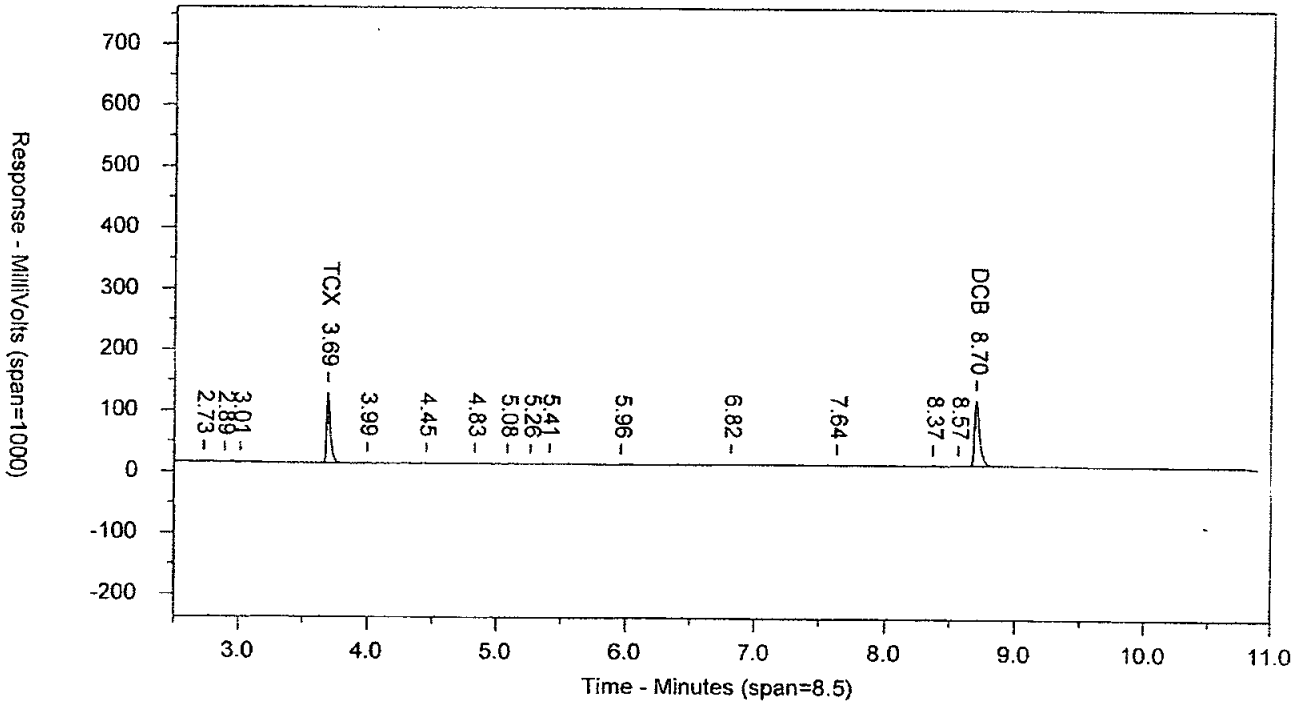

Data Summary

Sample Name: 6721494 MSACF DF200 49--0MS MS Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 2000 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 04:57:34
Instrument	H5088A
Result file	9P7190.027.RAW
Calibration file	1P7190
Method file	PESTDI7

%SSR(TCX) 77% (33 - 143) Conc: 7.978206
%SSR(DCB) * 0% (24 - 164) Conc: 0

Analysis Report (B)

Injected on	Jul 20, 2012 04:57:34
Instrument	H5088B
Result file	9P7190B.027.RAW
Calibration file	1P7190B
Method file	PESTDI7B

%SSR(TCX) 136% (33 - 143) Conc: 13.993212
%SSR(DCB) 123% (24 - 164) Conc: 12.303965

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.85	3.88	1279	7.978206

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.66	3.69	3.72	773	13.993212
Decachlorobiphenyl	8.68	8.70	8.74	700	12.303965

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
Tetrachloro-m-xylene	B	13.993212				54.75	
Decachlorobiphenyl	B	12.303965				200.00	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**15.86**	
5.82	5.85	5.88	34894.109375	7971.911602			1
6.14	6.16	6.20	39837.027344	7218.174804			2
6.39	6.42	6.45	43939.933594	9786.789239			3
Height summation:			**118671.070313**				
Concentration		CF:	**8325.625215**	L:			
Aroclor-1260						**5.94**	
7.04	7.06	7.10	39812.992188	10266.512716			4
7.35	7.37	7.41	79891.390625	9368.310874			5
7.65	7.68	7.71	40595.105469	9206.235112			6
Height summation:			**160299.488282**				
Concentration		CF:	**9613.686234**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**50.20**	
5.46	5.49	5.52	20371.371094	7635.22608			1
5.96	5.99	6.02	34529.964844	10474.290442			2
6.08	6.11	6.14	31424.431641	19749.484424			3
Height summation:			**86325.767579**				
Concentration		CF:	**12619.666982**	L:			
Aroclor-1260						**5.99**	
6.76	6.79	6.82	3211.402588	10013.166046			4
7.04	7.07	7.10	56133.480469	11082.47322			5
7.39	7.41	7.45	39982.597656	11169.346704			6
Height summation:			**99327.480713**				
Concentration		CF:	**10754.995323**	L:			

Data Summary

Sample Name: 6721494 MSACF DF200 49--0MS MS Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 2000 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 04:57:34
Instrument	H5088A
Result file	9P7190.027.RAW
Calibration file	1P7190
Method file	PESTDI7

Analysis Report (B)

Injected on	Jul 20, 2012 04:57:34
Instrument	H5088B
Result file	9P7190B.027.RAW
Calibration file	1P7190B
Method file	PESTDI7B

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
Aroclor-1016			<3400	<720			4	40	
Aroclor-1221			<3400	<920			3	40	
Aroclor-1232			<3400	<1600			4	40	
Aroclor-1242			<3400	<660			4	40	
Aroclor-1248			<3400	<660			4	40	
Aroclor-1254	B	12619.666982	3400	660		41.00	4	40	
Aroclor-1260	B	10754.995323	3400	980		11.21	4	40	
Aroclor-1262			<3400	<660			4	40	
Aroclor-1268			<3400	<660			4	40	
Total PCBs	A	23374.662305	3400	660		200.00			

Units: ug/kg

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

Reviewed by: Monica M. Souders
Chemist
Date: JUL 20 2012

Verified by: Jenifer E. Lewis
Manager
Date: JUL 25 2012

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721494** MSACF DF200 49--0MS Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 2000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 04:57:34
Instrument : CP 7--H5088A
Result file : 9p7190.027.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

%SSR(TCX) : 77% (33-143) Conc.: 7.978206
%SSR(DCB) : *-3114% (24-164) Conc.: -311.354401

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	126.25	
4.17	4.20	4.23	659.218445	204.84156			1
4.64	4.67	4.70	622.61554	172.320795			2
4.89	4.92	4.95	2075.602783	312.067175			3
4.95	4.98	5.01	655.492737	248.441486			4
5.03	5.06	5.09	801.553223	261.337759			5
5.29	5.32	5.35	4721.238281	1760.679161			6
Height Summation:			9535.721009				
Amount Avg CF:			493.281323	Linear:			
Aroclor-1221					1		
4.18	4.20	4.24	659.218445	158.490737			3
Height Summation:			659.218445				
Amount Avg CF:			158.490737	Linear:			
Aroclor-1232					6	139.18	
4.18	4.20	4.24	659.218445	160.379149			1
4.64	4.67	4.71	622.61554	357.563016			2
4.90	4.92	4.96	2075.602783	605.374686			3
4.95	4.98	5.01	655.492737	466.750503			4
5.04	5.06	5.10	801.553223	519.889882			5
5.30	5.32	5.36	4721.238281	3704.021403			6
Height Summation:			9535.721009				
Amount Avg CF:			968.99644	Linear:			
Aroclor-1242					6	125.44	
4.18	4.20	4.24	659.218445	254.188359			1
4.64	4.67	4.70	622.61554	222.144515			2
4.89	4.92	4.96	2075.602783	380.178363			3
4.95	4.98	5.01	655.492737	319.312526			4
5.03	5.06	5.09	801.553223	332.567099			5
5.30	5.32	5.36	4721.238281	2191.312833			6
Height Summation:			9535.721009				
Amount Avg CF:			616.617283	Linear:			
Aroclor-1248					5	126.13	
4.90	4.92	4.96	2075.602783	608.707766			1
5.30	5.32	5.36	4721.238281	1330.34824			3
5.42	5.44	5.48	3038.989746	1197.774924			4
6.14	6.16	6.20	39837.027344	22395.8408			5
6.40	6.42	6.46	43939.933594	29640.497855			6
Height Summation:			93612.791748				
Amount Avg CF:			11034.633917	Linear:			
Aroclor-1254					6	41.91	
5.82	5.85	5.88	34894.109375	7971.911602			1
6.14	6.16	6.20	39837.027344	7218.174804			2
6.39	6.42	6.45	43939.933594	9786.789230			3
6.54	6.55	6.60	61946.566406	20792.155001			4
6.63	6.66	6.69	47670.519531	15297.281154			5
6.77	6.79	6.83	76408.054688	16360.024488			6
Height Summation:			304696.210938				
Amount Avg CF:			12904.389381	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 04:57:34
Instrument : CP 7--H5088B
Result file : 9p7190B.027.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : 136% (33-143) Conc.: 13.993212
%SSR(DCB) : 123% (24-164) Conc.: 12.303965

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					4	102.66	
4.35	4.38	4.41	471.643768	238.270711			2
4.51	4.54	4.58	427.934479	297.709497			3
4.74	4.77	4.80	860.99292	266.171577			4
5.27	5.30	5.33	1437.251587	1393.131124			6
Height Summation:			3197.822754				
Amount Avg CF:			548.820727	Linear:			
Aroclor-1232					4	107.87	
4.35	4.38	4.41	471.643768	450.342565			2
4.52	4.54	4.58	427.934479	540.116722			3
4.74	4.77	4.80	860.99292	505.077461			4
5.28	5.30	5.34	1437.251587	2830.628433			6
Height Summation:			3197.822754				
Amount Avg CF:			1081.541295	Linear:			
Aroclor-1242					4	100.55	
4.35	4.38	4.41	471.643768	282.989091			2
4.52	4.54	4.58	427.934479	360.669599			3
4.74	4.77	4.80	860.99292	321.340955			4
5.28	5.30	5.34	1437.251587	1619.484027			6
Height Summation:			3197.822754				
Amount Avg CF:			646.120918	Linear:			
Aroclor-1248					5	126.71	
4.74	4.77	4.80	860.99292	537.40549			1
5.14	5.17	5.20	2213.080322	1582.537318			3
5.28	5.30	5.34	1437.251587	1251.119967			4
5.96	5.99	6.02	34529.964844	36617.996225			5
6.17	6.20	6.23	24833.394531	33212.690691			6
Height Summation:			63874.684204				
Amount Avg CF:			14640.349938	Linear:			
Aroclor-1254					6	39.75	
5.46	5.49	5.52	20371.371094	7635.22608			1
5.96	5.99	6.02	34529.964844	10474.290442			2
6.08	6.11	6.14	31424.431641	19749.484424			3
6.17	6.20	6.23	24833.394531	11084.38718			4
6.39	6.41	6.45	31105.400391	22396.999173			5
6.55	6.57	6.61	46188.359375	17411.599491			6
Height Summation:			188452.921876				
Amount Avg CF:			14791.997798	Linear:			
Aroclor-1260					6	41.42	
6.25	6.28	6.31	38684.445313	12085.259806			1
6.39	6.41	6.45	31105.400391	10841.333228			2
6.55	6.57	6.61	46188.359375	24396.840805			3
6.76	6.79	6.82	3211.402588	10013.166046			4
7.04	7.07	7.10	56133.480469	11082.47322			5
7.39	7.41	7.45	39982.597656	11169.346704			6
Height Summation:			215305.685792				
Amount Avg CF:			13264.731635	Linear:			

Diluted out 7-20-12

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721494** MSACF DF200 49--0MS Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 2000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 04:57:34
Instrument : CP 7--H5088A
Result file : 9p7190.027.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	12.87	
6.29	6.31	6.35	42948.734375	8753.709099			1
6.52	6.55	6.58	61946.566406	10530.805189			2
6.77	6.79	6.83	76408.054688	12349.614792			3
7.04	7.06	7.10	39812.992188	10266.512716			4
7.35	7.37	7.41	79891.390625	9368.310874			5
7.65	7.68	7.71	40595.105469	9206.235112			6
Height Summation:			**341602.843751**				
Amount Avg CF:			**10079.197964**	Linear:			
Aroclor-1262					6	49.99	
E 6.52	6.55	6.58	61946.566406	15147.618955			1
6.84	6.86	6.90	19126.976563	4110.013766			2
7.04	7.06	7.10	39812.992188	8740.407282			3
7.35	7.37	7.41	79891.390625	7575.210616			4
7.65	7.68	7.71	40595.105469	6890.043954			5
8.42	8.45	8.48	20127.986328	4884.751844			6
Height Summation:			**261501.017579**				
Amount Avg CF:			**7891.34107**	Linear:			
Aroclor-1268					6	117.24	
7.65	7.68	7.71	40595.105469	3399.092389			1
7.74	7.76	7.80	11828.941406	1151.109139			2
7.97	7.99	8.03	870.010742	80.877251			3
8.08	8.10	8.14	664.049255	247.546343			4
8.43	8.45	8.49	20127.986328	4183.590563			5
8.87	8.89	8.93	5113.061035	170.098573			6
Height Summation:			**79199.154235**				
Amount Avg CF:			**1538.719043**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 04:57:34
Instrument : CP 7--H5088B
Result file : 9p7190B.027.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1262					5	34.90	
6.39	6.41	6.45	31105.400391	13087.780362			1
6.81	6.84	6.87	19826.03125	6310.957656			3
7.04	7.07	7.10	56133.480469	8672.712387			4
7.39	7.41	7.45	39982.597656	8496.315277			5
7.97	7.99	8.03	15239.125	5547.349933			6
Height Summation:			**162286.634766**				
Amount Avg CF:			**8423.023123**	Linear:			
Aroclor-1268					5	108.69	
7.32	7.34	7.38	10517.057617	1373.338115			1
7.39	7.41	7.45	39982.597656	5568.335479			2
7.61	7.63	7.67	632.072021	87.422609			3
7.97	7.99	8.03	15239.125	4863.641078			5
8.34	8.37	8.40	3376.846191	167.719428			6
Height Summation:			**69747.698485**				
Amount Avg CF:			**2412.091342**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			3400	720		10.66	4	40	
Aroclor-1221			3400	920			3	40	
Aroclor-1232			3400	1600		10.98	4	40	
Aroclor-1242			3400	660		4.67	4	40	
Aroclor-1248			3400	660		28.09	4	40	
Aroclor-1254			3400	660		13.63	4	40	
Aroclor-1260			3400	980		27.29	4	40	
Aroclor-1262			3400	660	E	6.52	4	40	
Aroclor-1268			3400	660		** 44.21	4	40	
Total PCBs			3400	660					

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 6721494MSACF DF200 AC49--0MS MS 121990024A 10736 Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 4:57:34 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.027.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.522		1631	4261
1.645		1378	5183
1.778		3736	18789
2.048		528	1883
2.171		2205	9282
2.289		1298	3715
2.553		145	215
2.773		527	1911
2.901		5097	10103
3.005		897	2171
3.114		407	1128
3.274		351	703
3.349		846	2365
3.423		145	243
3.481		3518	6802
3.554		383	526
3.598		594	1608
3.855	TCX	1279	3234
4		266	614
4.204		659	3357
4.289		1292	3436
4.525		334	1108
4.594		141	480
4.667		623	1023
4.834		467	2272
4.924		2076	4494
4.978		655	1285
5.056		802	1478
5.15		8921	31299
5.32		4721	10327
5.441		3039	5259
5.598		387	481
5.651		6880	9733
5.672		6172	5856
5.703		5850	7400
5.793		4135	5763
5.847		34894	57076
5.887		8160	11804
6.025		12078	21827
6.091		13143	21021
6.122		3944	3546
6.163		39837	66074
6.219		8828	14473
6.262		5460	6428
6.313		42949	104953
6.421		43940	86286
6.484		4315	6023
6.55		61947	196558
6.656		47671	97877
6.747		2770	3059
6.792		76408	167988
6.864		19127	28361
6.914		12336	20768

ASX73 1885

RT A	Compound A	Height A	Area A
7.062		39813	107614
7.135		10717	16778
7.183		5412	7944
7.296		14422	27740
7.372		79891	217700
7.678		40595	81818
7.759		11829	31695
7.985		870	2587
8.097		664	1097
8.142		7911	18350
8.446		20128	52596
8.541		653	1161
8.89		5113	18184
9.249	DCB	980	3107

LANCASTER LABORATORIES

Sample Number: 6721494MSACF DF200 AC49--0MS MS 121990024A 1073Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 4:57:34 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.027.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.607		8791	55301
1.923		1392	4640
2.194		544	1617
2.84		1494	4800
3.073		268	1163
3.359		1122	2335
3.691	TCX	773	3515
4.114		536	1960
4.38		472	1460
4.542		428	1318
4.66		243	583
4.767		861	1752
4.976		4777	17147
5.167		2213	4383
5.3		1437	2584
5.488		20371	51065
5.57		1487	1836
5.624		16562	24958
5.671		7357	19029
5.78		608	752
5.828		7316	14318
5.906		11165	17047
5.989		34530	101374
6.105		31424	66938
6.197		24833	56479
6.278		38684	81228
6.412		31105	56233
6.478		16555	23564
6.522		4685	5480
6.573		46188	123526
6.652		6310	8888
6.788		3211	6249
6.84		19826	51219
6.929		8061	11531
6.97		2709	7464
7.067		56133	125545
7.345		10517	18609
7.411		39983	89564
7.633		632	1233
7.7		622	961
7.823		6327	14996
7.994		15239	39861
8.294		256	539
8.368		3377	8449
8.592		114	626
8.704	DCB	700	1737
8.885		445	1801
9.627		363	1713
10.588		634	12408

ASX73 1887

6721494MSACF DF200 AC49--0MS MS 121990024A 10736 SW-846 8082

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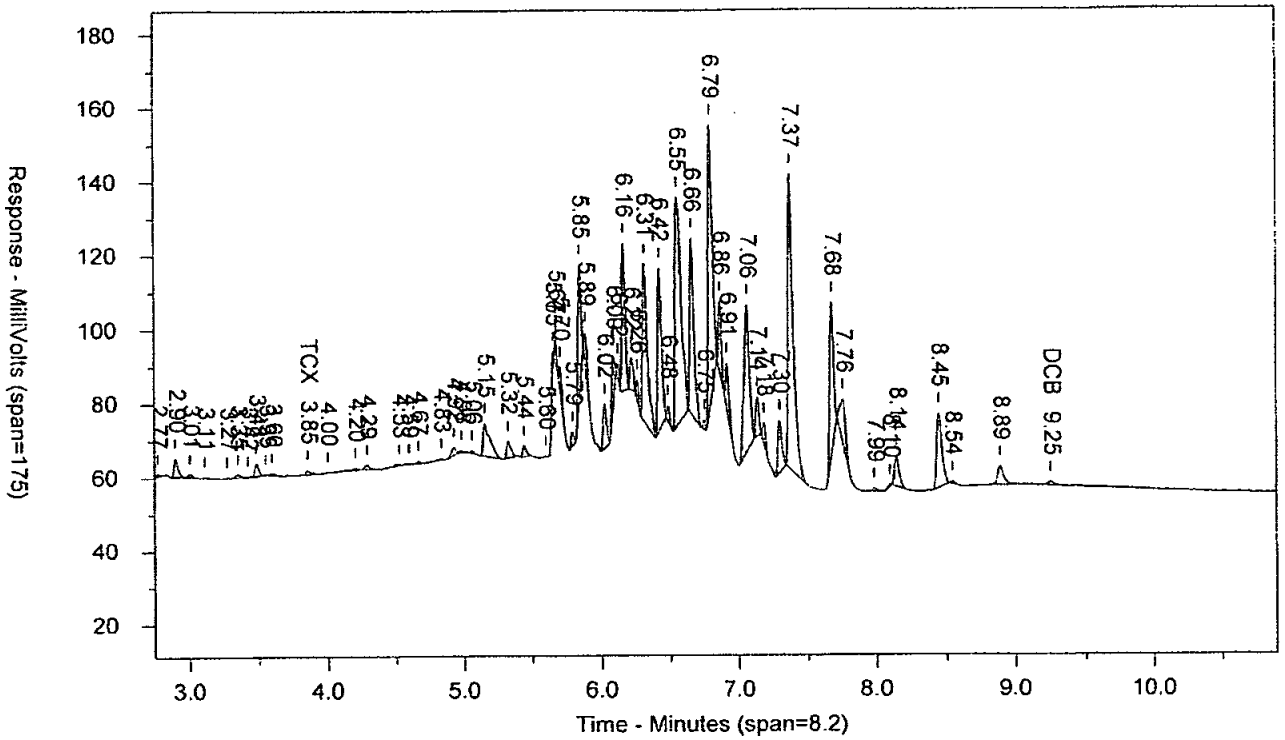

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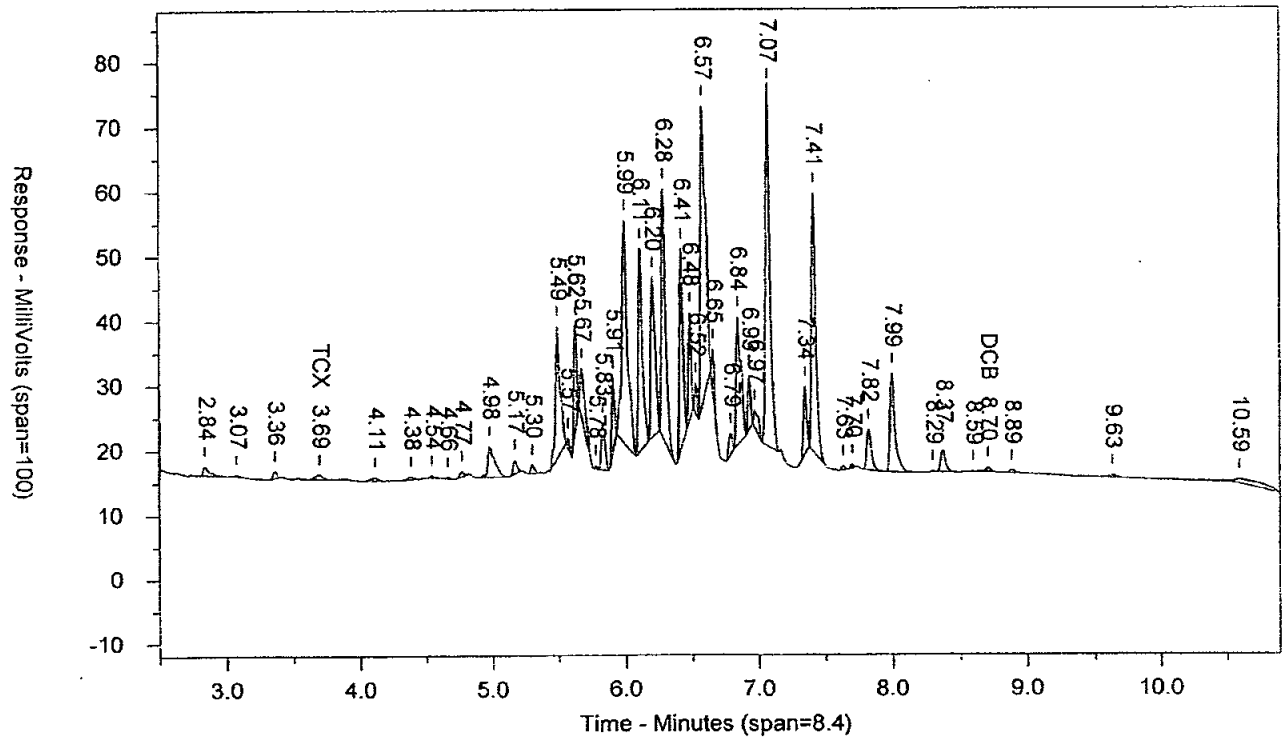

LANCASTER LABORATORIES

Sample Number: 6721494MSACF DF200 AC49-0MS MS 121990024A 10736 Sample Weight: 30 SW-846 8082
Injected On: 7/20/2012 4:57:34 AM Dilution Factor: 2000
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.855	1279	7.978	TCX	3.691	773	13.993	TCX
9.249	980	-311.354	DCB	8.704	700	12.304	DCB

Files:
Area File: 9p7190.027.RAW
Area File: 9p7190B.027.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 5:08:10 AM
File Reported On: 7/20/2012 at 5:08:36 AM

ASX73 1889

6721494MSACF DF200 AC49--0MS MS 121990024A 10736 SW-846 8082

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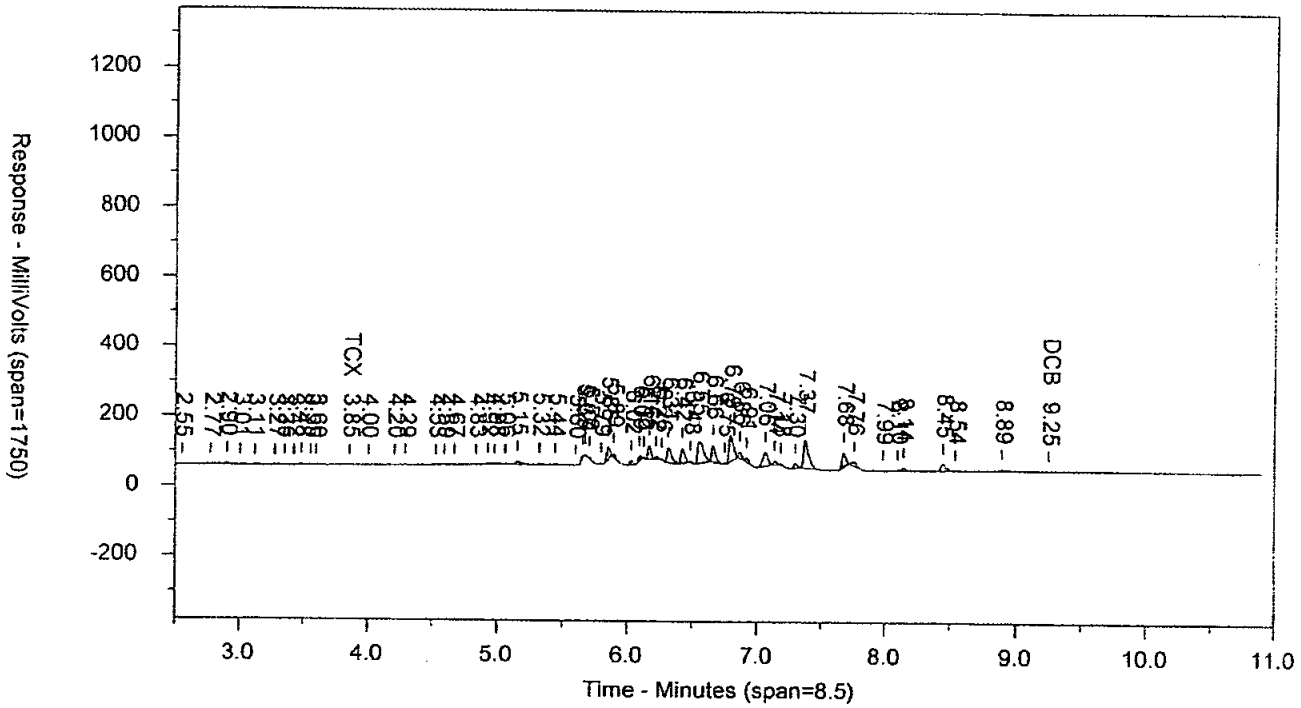

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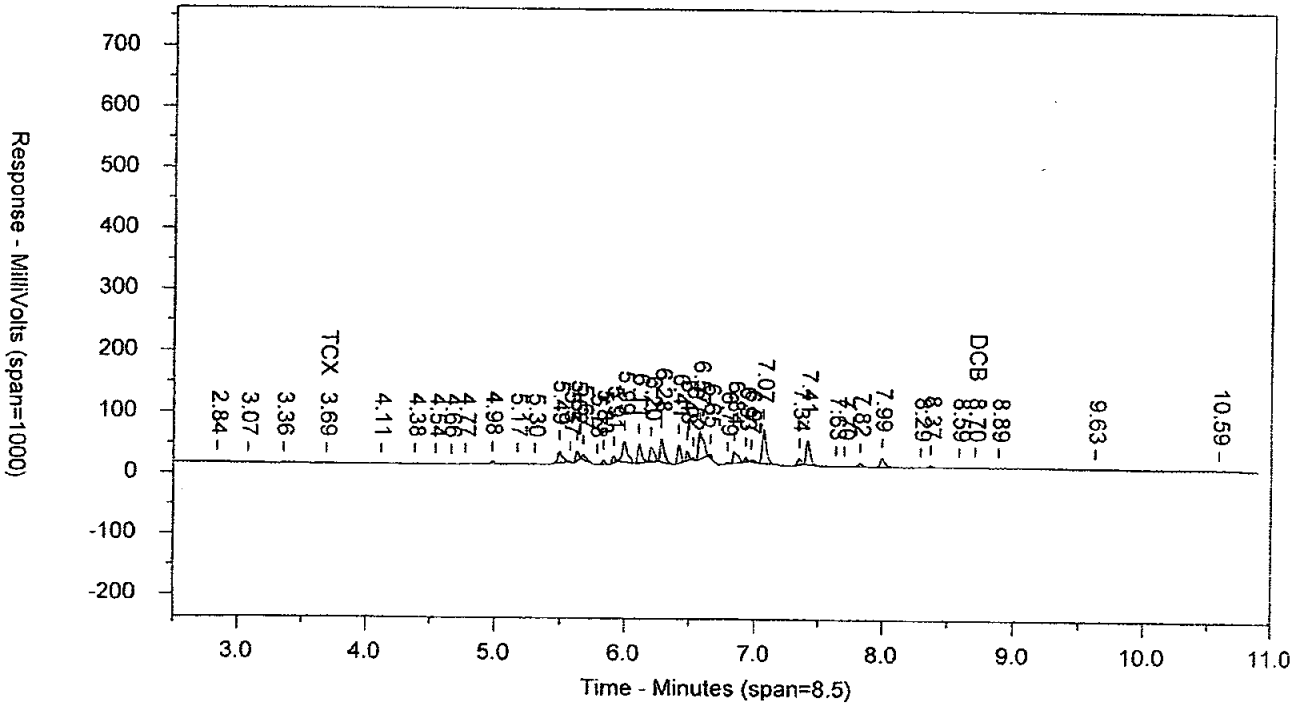

ASX73 1890

Data Summary

Sample Name: 6721494 MSDACF DF200 49--0MSD MSD Sample ID:AC **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 2000 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 05:12:19
Instrument	H5088A
Result file	9P7190.028.RAW
Calibration file	1P7190
Method file	PESTDI7

%SSR(TCX) 86% (33 - 143) Conc: 8.91329
%SSR(DCB) * 0% (24 - 164) Conc: 0

Analysis Report (B)

Injected on	Jul 20, 2012 05:12:19
Instrument	H5088B
Result file	9P7190B.028.RAW
Calibration file	1P7190B
Method file	PESTDI7B

%SSR(TCX) 79% (33 - 143) Conc: 8.128033
%SSR(DCB) 143% (24 - 164) Conc: 14.299244

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.85	3.88	1428	8.91329

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.66	3.69	3.72	449	8.128033
Decachlorobiphenyl	8.68	8.71	8.74	813	14.299244

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☐ Tetrachloro-m-xylene	B	8.128033				9.22	
☐ Decachlorobiphenyl	B	14.299244				200.00	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**16.20**	
5.82	5.85	5.88	24730.199219	5649.863705			1
6.14	6.16	6.20	28855.683594	5228.436511			2
6.39	6.42	6.45	31779.603516	7078.305684			3
Height summation:			**85365.486329**				
Concentration		CF:	**5985.5353**	L:			
Aroclor-1260						**5.89**	
7.04	7.06	7.10	33858.886719	8731.137047			4
7.35	7.37	7.41	68698.132813	8055.75494			5
7.65	7.68	7.71	34373.898438	7795.377967			6
Height summation:			**136930.91797**				
Concentration		CF:	**8194.089985**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254						**59.46**	
5.46	5.49	5.52	13167.061523	4935.038053			1
5.96	5.99	6.02	24974.292969	7575.680987			2
6.08	6.11	6.14	24895.683594	15646.326431			3
Height summation:			**63037.038086**				
Concentration		CF:	**9385.681824**	L:			
Aroclor-1260						**7.78**	
6.76	6.79	6.82	2616.881104	8159.445694			4
7.04	7.07	7.10	47252.730469	9329.140392			5
7.39	7.41	7.45	33652.394531	9400.971522			6
Height summation:			**83522.006104**				
Concentration		CF:	**8963.185869**	L:			

Data Summary

Sample Name: 6721494 MSDACF DF200 49--0MSD MSD Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 2000 ml Analyst: 3172 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 05:12:19
Instrument	H5088A
Result file	9P7190.028.RAW
Calibration file	1P7190
Method file	PESTDI7

Analysis Report (B)

Injected on	Jul 20, 2012 05:12:19
Instrument	H5088B
Result file	9P7190B.028.RAW
Calibration file	1P7190B
Method file	PESTDI7B

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
Aroclor-1016			<3400	<720			4	40	
Aroclor-1221			<3400	<920			3	40	
Aroclor-1232			<3400	<1600			4	40	
Aroclor-1242			<3400	<660			4	40	
Aroclor-1248			<3400	<660			4	40	
Aroclor-1254	B	9385.681824	3400	660		44.24	4	40	
Aroclor-1260	B	8963.185869	3400	980		8.97	4	40	
Aroclor-1262			<3400	<660			4	40	
Aroclor-1268			<3400	<660			4	40	
Total PCBs	A	18348.867693	3400	660		200.00			

Units: ug/kg

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

Reviewed by: Monica M. Souders, Chemist
Date: JUL 20 2012

Verified by: Jennifer E. Lewis, Manager
Date: JUL 25 2012

7/20/2012

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721494** MSDACF DF200 49--0MSD Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 2000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 05:12:19
Instrument : CP 7--H5088A
Result file : 9p7190.028.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

%SSR(TCX) : 86% (33-143) Conc.: 8.91329
%SSR(DCB) : *-3113% (24-164) Conc.: -311.32959

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	99.23	
4.17	4.20	4.23	596.770813	185.43696			1
4.64	4.67	4.70	618.088074	171.067732			2
4.89	4.92	4.95	1906.620117	286.660607			3
4.95	4.98	5.01	627.348572	237.774429			4
5.03	5.06	5.09	793.580505	258.738341			5
5.29	5.32	5.35	3080.472168	1148.792505			6
Height Summation:			**7622.880249**				
Amount Avg CF:			**381.411762**	Linear:			
Aroclor-1221					2	1.56	
4.11	4.13	4.17	219.521973	146.678008			2
4.18	4.20	4.24	596.770813	143.476941			3
Height Summation:			**816.292786**				
Amount Avg CF:			**145.077475**	Linear:			
Aroclor-1232					6	112.95	
4.18	4.20	4.24	596.770813	145.186464			1
4.64	4.67	4.71	618.088074	354.962929			2
4.90	4.92	4.96	1906.620117	556.088845			3
4.95	4.98	5.01	627.348572	446.710154			4
5.04	5.06	5.10	793.580505	514.718753			5
5.30	5.32	5.36	3080.472168	2416.767416			6
Height Summation:			**7622.880249**				
Amount Avg CF:			**739.072427**	Linear:			
Aroclor-1242					6	98.34	
4.18	4.20	4.24	596.770813	230.109146			1
4.64	4.67	4.70	618.088074	220.52915			2
4.89	4.92	4.96	1906.620117	349.226606			3
4.95	4.98	5.01	627.348572	305.602558			4
5.03	5.06	5.09	793.580505	329.259192			5
5.30	5.32	5.36	3080.472168	1429.768588			6
Height Summation:			**7622.880249**				
Amount Avg CF:			**477.415873**	Linear:			
Aroclor-1248					5	125.97	
4.90	4.92	4.96	1906.620117	559.150566			1
5.30	5.32	5.36	3080.472168	868.013958			3
5.42	5.44	5.48	2196.446777	865.698502			4
6.14	6.16	6.20	28855.683594	16222.277088			5
6.40	6.42	6.46	31779.603516	21437.521471			6
Height Summation:			**67818.826172**				
Amount Avg CF:			**7990.532317**	Linear:			
Aroclor-1254					6	47.90	
5.82	5.85	5.88	24730.199219	5649.863705			1
6.14	6.16	6.20	28855.683594	5228.436511			2
6.39	6.42	6.45	31779.603516	7078.305684			3
6.54	6.55	6.60	51106.195313	17153.621195			4
6.63	6.65	6.69	35544.09375	11405.959088			5
6.77	6.79	6.83	61703.386719	13211.551084			6
Height Summation:			**233719.162111**				
Amount Avg CF:			**9954.622878**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 05:12:19
Instrument : CP 7--H5088B
Result file : 9p7190B.028.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : 79% (33-143) Conc.: 8.128033
%SSR(DCB) : 143% (24-164) Conc.: 14.299244

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					4	87.28	
4.35	4.38	4.41	455.683014	230.207464			2
4.51	4.54	4.58	356.482788	248.001311			3
4.74	4.77	4.80	763.144287	235.922171			4
5.27	5.30	5.33	1005.932922	975.052994			6
Height Summation:			**2581.243011**				
Amount Avg CF:			**422.295985**	Linear:			
Aroclor-1232					4	92.76	
4.35	4.38	4.41	455.683014	435.102658			2
4.52	4.54	4.58	356.482788	449.934101			3
4.74	4.77	4.80	763.144287	447.677292			4
5.28	5.30	5.34	1005.932922	1981.157897			6
Height Summation:			**2581.243011**				
Amount Avg CF:			**828.467987**	Linear:			
Aroclor-1242					4	85.09	
4.35	4.38	4.41	455.683014	273.412543			2
4.52	4.54	4.58	356.482788	300.449042			3
4.74	4.77	4.80	763.144287	284.821754			4
5.28	5.30	5.34	1005.932922	1133.477475			6
Height Summation:			**2581.243011**				
Amount Avg CF:			**498.040204**	Linear:			
Aroclor-1248					5	127.02	
4.74	4.77	4.80	763.144287	476.331361			1
5.14	5.17	5.20	1449.265503	1036.345911			3
5.28	5.30	5.34	1005.932922	875.659332			4
5.96	5.99	6.02	24974.292969	26484.491652			5
6.17	6.20	6.23	17090.712891	22857.469615			6
Height Summation:			**45283.348572**				
Amount Avg CF:			**10346.059574**	Linear:			
Aroclor-1254					6	46.66	
5.46	5.49	5.52	13167.061523	4935.038053			1
5.96	5.99	6.02	24974.292969	7575.680987			2
6.08	6.11	6.14	24895.683594	15646.326431			3
6.17	6.20	6.23	17090.712891	7628.440752			4
6.39	6.41	6.45	25042.285156	18031.339667			5
6.55	6.57	6.61	36463.511719	13745.629216			6
Height Summation:			**141633.547852**				
Amount Avg CF:			**11260.409184**	Linear:			
Aroclor-1260					6	38.92	
6.25	6.28	6.31	31325.333984	9786.227943			1
6.39	6.41	6.45	25042.285156	8728.122923			2
6.55	6.57	6.61	36463.511719	19260.121137			3
6.76	6.79	6.82	2616.881104	8159.445694			4
7.04	7.07	7.10	47252.730469	9329.140392			5
7.39	7.41	7.45	33652.394531	9400.971522			6
Height Summation:			**176353.136963**				
Amount Avg CF:			**10777.338269**	Linear:			

Diluted out KSM 7-2012

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **6721494** MSDACF DF200 49--0MSD Sample ID: AC **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 2000 ml Analyst: 2855 SDG: ASX73 State: DE
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 05:12:19
Instrument : CP 7--H5088A
Result file : 9p7190.028.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	11.19	
6.29	6.31	6.35	35644.128906	7264.90175			1
6.52	6.55	6.58	51106.195313	8687.961545			2
6.77	6.79	6.83	61703.386719	9972.941471			3
7.04	7.06	7.10	33858.886719	8731.137047			4
7.35	7.37	7.41	68698.132813	8055.75494			5
7.65	7.68	7.71	34373.898438	7795.377967			6
Height Summation:			**285384.628908**				
Amount Avg CF:			**8418.012453**	Linear:			
Aroclor-1262					6	46.98	
6.52	6.55	6.58	51106.195313	12496.853623			1
6.84	6.86	6.90	17463.091797	3752.477421			2
7.04	7.06	7.10	33858.886719	7433.263459			3
7.35	7.37	7.41	68698.132813	6513.878666			4
7.65	7.68	7.71	34373.898438	5834.14351			5
8.42	8.45	8.48	17438.626953	4232.085802			6
Height Summation:			**222938.832033**				
Amount Avg CF:			**6710.450414**	Linear:			
Aroclor-1268					6	87.18	
7.65	7.68	7.71	34373.898438	2878.180884			1
7.74	7.76	7.80	10646.069336	1036.000373			2
7.97	7.99	8.03	752.686523	69.97065			3
8.08	8.14	8.14	7985.509277	2976.862947			4
8.43	8.45	8.49	17438.626953	3624.60874			5
8.87	8.89	8.93	4555.37207	151.545675			6
Height Summation:			**75752.162597**				
Amount Avg CF:			**1789.528212**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 05:12:19
Instrument : CP 7--H5088B
Result file : 9p7190B.028.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1262					5	32.11	
6.39	6.41	6.45	25042.285156	10536.688927			1
6.81	6.84	6.87	16728.679688	5325.018801			3
7.04	7.07	7.10	47252.730469	7300.622328			4
7.39	7.41	7.45	33652.394531	7151.145012			5
7.97	7.99	8.03	13146.360352	4785.541244			6
Height Summation:			**135822.450196**				
Amount Avg CF:			**7019.803262**	Linear:			
Aroclor-1268					5	108.10	
7.32	7.34	7.38	9154.792969	1195.450912			1
7.39	7.41	7.45	33652.394531	4686.734565			2
7.61	7.63	7.67	499.720673	69.116942			3
7.97	7.99	8.03	13146.360352	4195.725033			5
8.34	8.37	8.40	3011.24585	149.560982			6
Height Summation:			**59464.514375**				
Amount Avg CF:			**2059.317687**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			3400	720		10.17	4	40	
Aroclor-1221			3400	920			3	40	
Aroclor-1232			3400	1600		11.41	4	40	
Aroclor-1242			3400	660		4.23	4	40	
Aroclor-1248			3400	660		25.69	4	40	
Aroclor-1254			3400	660		12.31	4	40	
Aroclor-1260			3400	980		24.58	4	40	
Aroclor-1262			3400	660		4.51	4	40	
Aroclor-1268			3400	660		14.02	4	40	
Total PCBs			3400	660					

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: 6721494MSDACF DF200 AC49--0MSD MSD 121990024A 10736 Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 5:12:19 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.028.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.525		755	6740
2.049		610	1809
2.169		2297	12036
2.288		1555	8073
2.699		331	717
2.773		531	2310
2.901		4458	8769
3.008		736	1933
3.118		202	596
3.271		157	376
3.351		227	672
3.48		3181	5852
3.853	TCX	1428	2717
4.131		220	1752
4.202		597	1179
4.289		1248	3115
4.524		587	1677
4.618		112	330
4.667		618	1024
4.836		429	1858
4.923		1907	4163
4.978		627	1259
5.056		794	1412
5.149		6273	21825
5.32		3080	6799
5.44		2196	3765
5.602		414	524
5.651		6930	8237
5.67		2854	2515
5.702		3428	4740
5.793		3178	4365
5.847		24730	40365
5.887		5391	7350
6.024		8172	14627
6.092		13140	35821
6.163		28856	47554
6.22		7733	13202
6.261		3576	3849
6.312		35644	87039
6.421		31780	61846
6.484		4183	6154
6.549		51106	159994
6.655		35544	71773
6.746		2474	2764
6.791		61703	135294
6.863		17463	26203
6.913		10354	17116
7.06		33859	89144
7.134		9631	15054
7.182		4382	6618
7.294		11719	22497
7.372		68698	184760
7.677		34374	69223

ASX73 1895

RT A	Compound A	Height A	Area A
7.757		10646	28406
7.985		753	2054
8.14		7986	25499
8.447		17439	45276
8.541		541	952
8.889		4555	16453
9.251	DCB	982	3209

ASX73 1896

LANCASTER LABORATORIES

Sample Number: 6721494MSDACF DF200 AC49-0MSD MSD 121990024A 1078 Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 5:12:19 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.028.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.602		10505	132049
2.194		548	1750
2.839		1291	3797
3.076		355	2170
3.357		1086	3465
3.693	TCX	449	1063
4.116		514	1696
4.378		456	1367
4.543		356	1020
4.767		763	1567
4.975		3389	12595
5.167		1449	2940
5.3		1006	1826
5.488		13167	32573
5.624		11939	18167
5.67		4320	10326
5.778		416	523
5.828		4882	9565
5.905		7465	11444
5.99		24974	75454
6.105		24896	53080
6.196		17091	40235
6.278		31325	66314
6.412		25042	45623
6.478		11055	15833
6.523		3849	4538
6.572		36464	99146
6.651		5275	7380
6.788		2617	5133
6.84		16729	42310
6.928		6867	9915
6.97		2211	6316
7.066		47253	105027
7.344		9155	16310
7.41		33652	75548
7.633		500	969
7.699		545	820
7.823		5273	12345
7.994		13146	34382
8.367		3011	7651
8.706	DCB	813	3755

ASX73 1897

6721494MSDACF DF200 AC49--0MSD MSD 121990024A 10736 SW-846 8082

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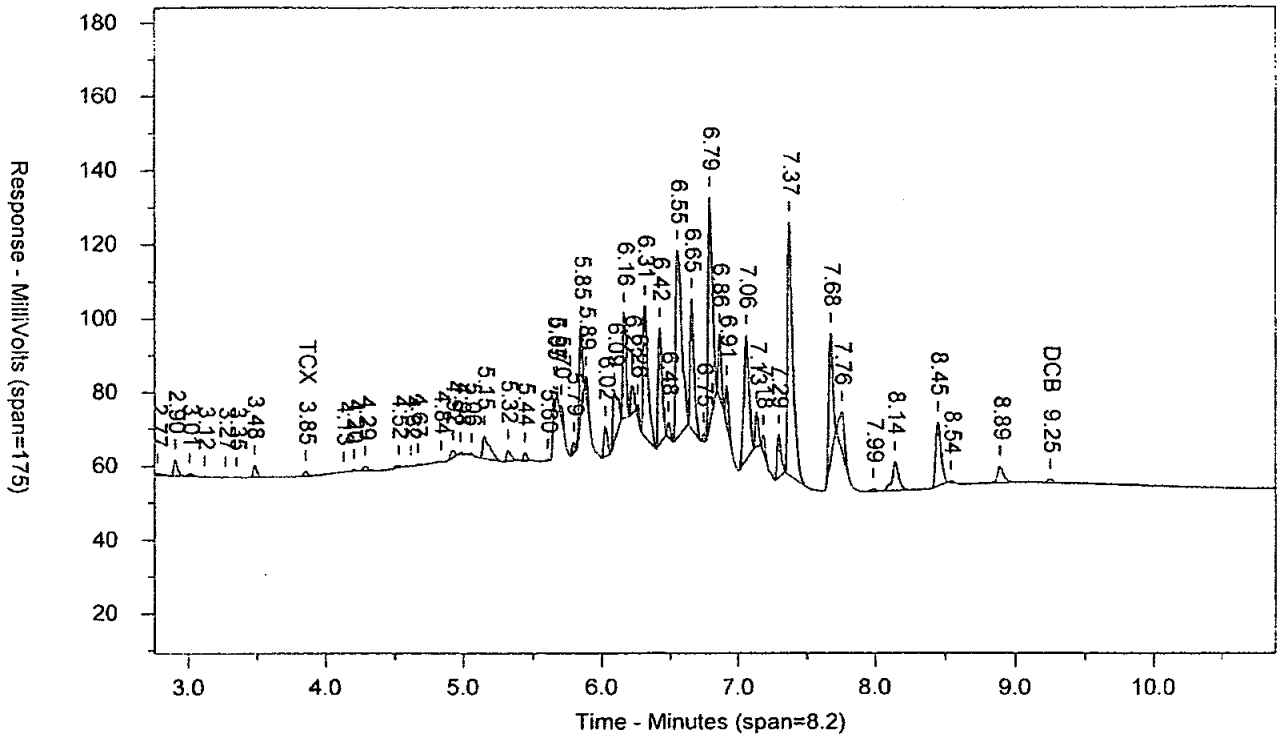

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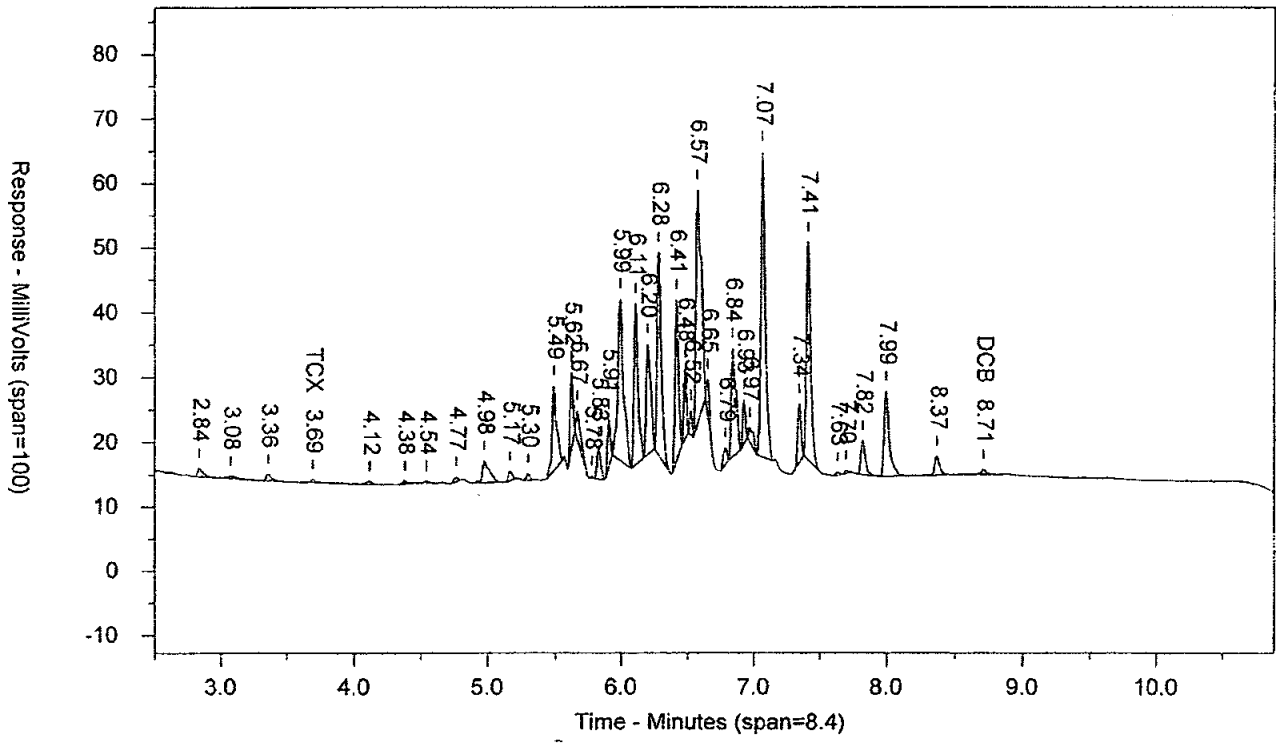

LANCASTER LABORATORIES

Sample Number: 6721494MSDACF DF200 AC49--0MSD MSD 121990024A 10736 Sample Weight: 30 SW-846 8082
Injected On: 7/20/2012 5:12:19 AM Dilution Factor: 2000
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.853	1428	8.913	TCX	3.693	449	8.128	TCX
9.251	982	-311.33	DCB	8.706	813	14.299	DCB

Files:
Area File: 9p7190.028.RAW
Area File: 9p7190B.028.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 5:22:54 AM
File Reported On: 7/20/2012 at 5:23:18 AM

ASX73 1899

6721494MSDACF DF200 AC49--0MSD MSD 121990024A 10736 SW-846 8082

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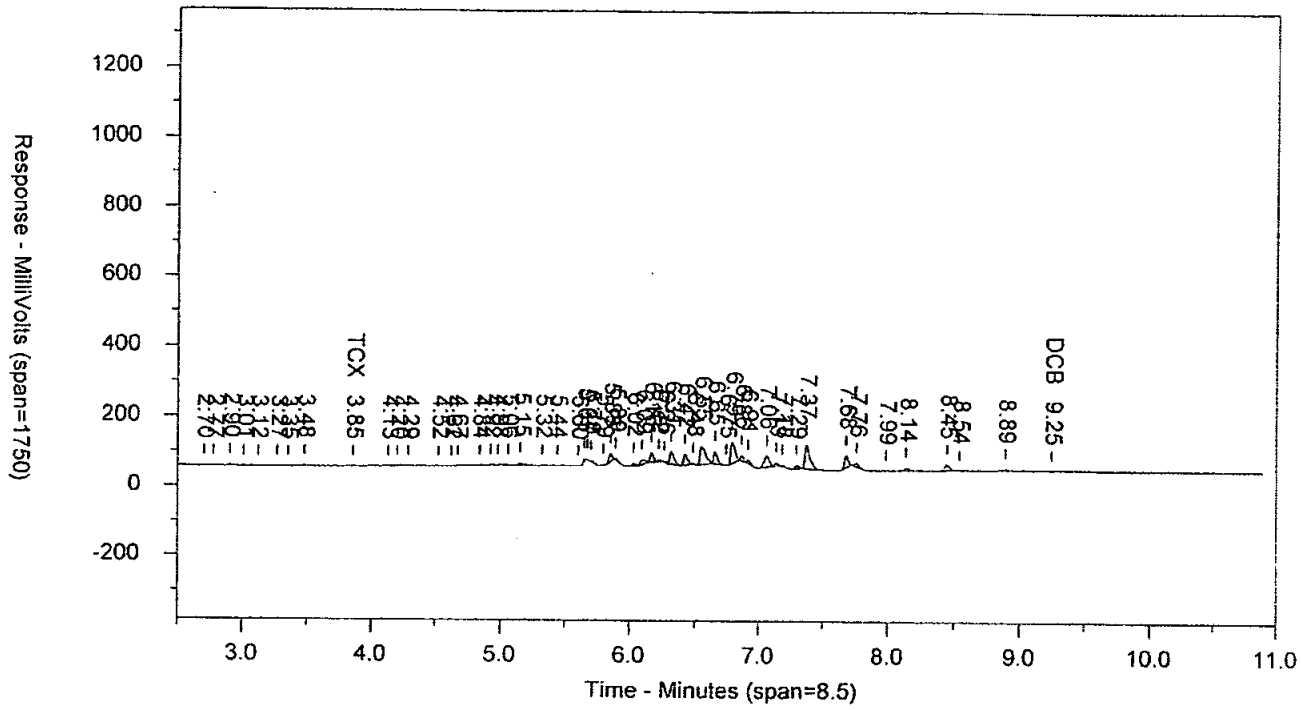

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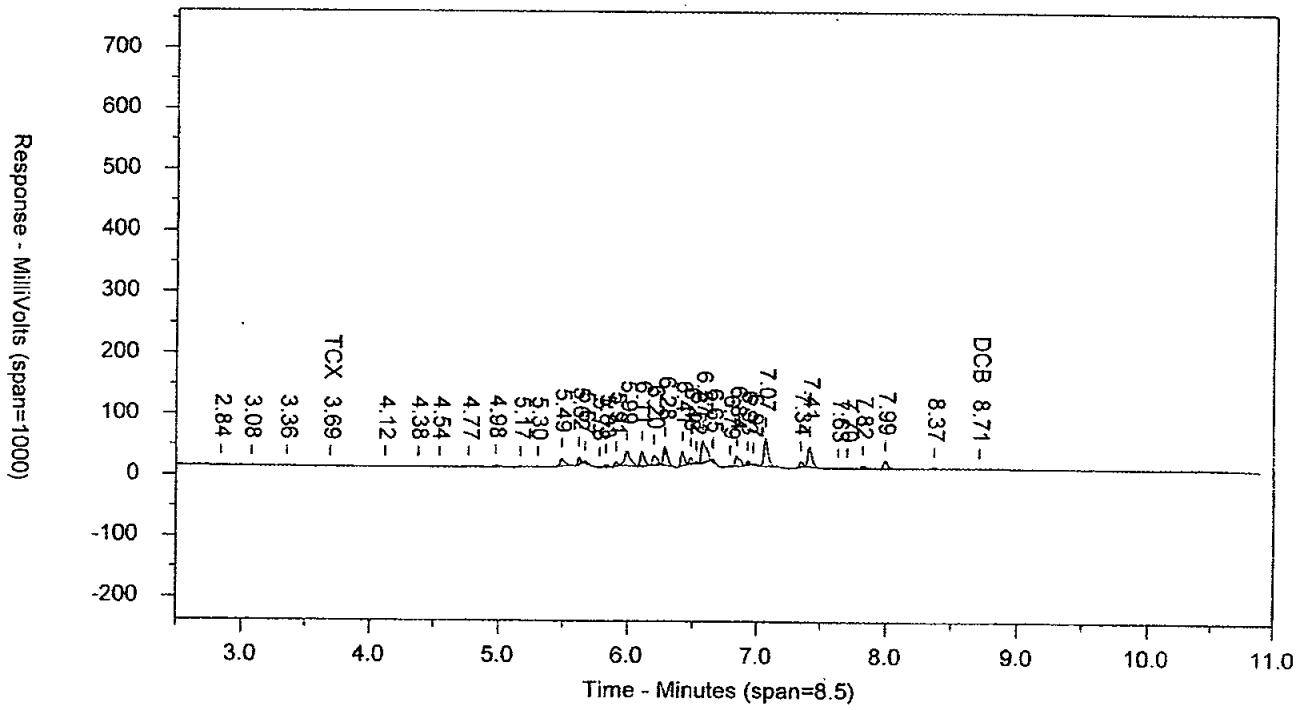

ASX73 1988

Data Summary

Sample Name: LCSA 7/17/12AF LCS13199 LCS Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 3172 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on	Jul 20, 2012 02:59:52
Instrument	H5088A
Result file	9P7190.019.RAW
Calibration file	1P7190
Method file	PESTDI7

%SSR(TCX) 83% (55 - 132) Conc: 0.256641
%SSR(DCB) 92% (36 - 153) Conc: 0.274747

Analysis Report (B)

Injected on	Jul 20, 2012 02:59:52
Instrument	H5088B
Result file	9P7190B.019.RAW
Calibration file	1P7190B
Method file	PESTDI7B

%SSR(TCX) 101% (55 - 132) Conc: 0.311496
%SSR(DCB) 98% (36 - 153) Conc: 0.295083

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.86	3.88	274198	0.256641
Decachlorobiphenyl	9.23	9.26	9.29	154735	0.274747

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.66	3.70	3.72	114732	0.311496
Decachlorobiphenyl	8.68	8.71	8.74	111875	0.295083

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
Tetrachloro-m-xylene	B	0.311496				19.31	
Decachlorobiphenyl	B	0.295083				7.14	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**30.10**	
4.17	4.21	4.23	98075.507813	4.571309			1
4.64	4.67	4.70	111976.85937	4.648762			2
4.89	4.92	4.95	229860.01562	5.183923			3
4.95	4.98	5.01	81916.4375	4.657132			4
5.03	5.06	5.09	99530.984375	4.86765			5
5.29	5.32	5.35	30125.542969	1.685196			6
Height summation:			**651485.347657**				
Concentration		CF:	**4.268995**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**3.37**	
4.05	4.08	4.11	44308.480469	5.650496			1
4.35	4.38	4.41	72266.835938	5.476295			2
4.51	4.55	4.58	56449.808594	5.89073			3
4.74	4.77	4.80	126559.48437	5.868783			4
4.98	5.01	5.04	31073.308594	5.665122			5
5.27	5.30	5.33	41264.285156	5.999634			6
Height summation:			**371922.203126**				
Concentration		CF:	**5.75851**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**2.03**	
6.29	6.31	6.35	157306.57812	4.809278			1
6.52	6.55	6.58	189404.98437	4.829776			2
6.77	6.79	6.83	201303.48437	4.880416			3
7.04	7.06	7.10	125928.875	4.870962			4
7.35	7.37	7.41	285482.65625	5.021487			5
7.65	7.68	7.71	138842.84375	4.723057			6
Height summation:			**1098269.421875**				
Concentration		CF:	**4.855829**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**3.61**	
6.25	6.28	6.31	121209.28125	5.679979			1
6.39	6.41	6.45	114238.74218	5.972437			2
6.55	6.57	6.61	74690.335938	5.917744			3
6.76	6.79	6.82	13530.15625	6.328062			4
7.04	7.07	7.10	197359.40625	5.844721			5
7.39	7.41	7.45	141117.32812	5.913279			6
Height summation:			**662145.250001**				
Concentration		CF:	**5.942704**	L:			

Data Summary

Sample Name: LCSA 7/17/12AF LCS13199 LCS Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 3172 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on	Jul 20, 2012 02:59:52
Instrument	H5088A
Result file	9P7190.019.RAW
Calibration file	1P7190
Method file	PESTDI7

Analysis Report (B)

Injected on	Jul 20, 2012 02:59:52
Instrument	H5088B
Result file	9P7190B.019.RAW
Calibration file	1P7190B
Method file	PESTDI7B

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
Aroclor-1016	B	5.75851	0.5	0.1		29.71	4	40	
Aroclor-1221			<0.5	<0.1			3	40	
Aroclor-1232			<0.5	<0.2			4	40	
Aroclor-1242			<0.5	<0.1			4	40	
Aroclor-1248			<0.5	<0.1			4	40	
Aroclor-1254			<0.5	<0.1			4	40	
Aroclor-1260	B	5.942704	0.5	0.15		20.13	4	40	
Aroclor-1262			<0.5	<0.2			4	40	
Aroclor-1268			<0.5	<0.16			4	40	
Total PCBs			<0.5	<0.2					

Units: ug/l

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

Reviewed by: Monica M. Souders
Monica M. Souders
Chemist
Date: JUL 20 2012

Verified by: Jenifer E. Lewis
Jenifer E. Lewis
Manager
Date: JUL 25 2012

ASX73 1982

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **LCSA** 7/17/12AF LCS13199 Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on : JUL 20, 2012 02:59:52
Instrument : CP 7--H5088A
Result file : 9p7190.019.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET
%SSR(TCX) : 83% (55-132) Conc.: 0.256641
%SSR(DCB) : 92% (36-153) Conc.: 0.274747

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	30.10	
4.17	4.21	4.23	98075.507813	4.571309			1
4.64	4.67	4.70	111976.85937	4.648762			2
4.89	4.92	4.95	229860.01562	5.183923			3
4.95	4.98	5.01	81916.4375	4.657132			4
5.03	5.06	5.09	99530.984375	4.86765			5
5.29	5.32	5.35	30125.542969	1.685196			6
+ 5.29	5.35	5.35	14865.617188	0.831569			6
Height Summation:			**651485.347657**				
Amount Avg CF:			**4.268995**	Linear:			
Aroclor-1221					3	40.47	
4.03	4.06	4.09	18430.359375	1.552684			1
E 4.11	4.14	4.17	23199.181641	2.32515			2
E 4.18	4.21	4.24	98075.507813	3.536929			3
Height Summation:			**139705.048829**				
Amount Avg CF:			**2.471588**	Linear:			
Aroclor-1232					6	41.28	
E 4.18	4.21	4.24	98075.507813	3.579072			1
E 4.64	4.67	4.71	111976.85937	9.646109			2
E 4.90	4.92	4.96	229860.01562	10.056219			3
E 4.95	4.98	5.01	81916.4375	8.749419			4
E 5.04	5.06	5.10	99530.984375	9.663415			5
E 5.30	5.32	5.36	30125.542969	3.545224			6
+ 5.30	5.35	5.36	14865.617188	1.749411			6
Height Summation:			**651485.347657**				
Amount Avg CF:			**7.543243**	Linear:			
Aroclor-1242					6	30.15	
E 4.18	4.21	4.24	98075.507813	5.672547			1
E 4.64	4.67	4.70	111976.85937	5.992874			2
E 4.89	4.92	4.96	229860.01562	6.315356			3
E 4.95	4.98	5.01	81916.4375	5.985637			4
E 5.03	5.06	5.09	99530.984375	6.19436			5
E 5.30	5.32	5.36	30125.542969	2.097368			6
+ 5.30	5.35	5.36	14865.617188	1.034958			6
Height Summation:			**651485.347657**				
Amount Avg CF:			**5.376357**	Linear:			
Aroclor-1248					6	76.91	
E 4.90	4.92	4.96	229860.01562	10.111586			1
5.17	5.19	5.23	52728.816406	4.383263			2
5.30	5.32	5.36	30125.542969	1.273314			3
+ 5.30	5.35	5.36	14865.617188	0.628324			3
5.42	5.44	5.48	72415.375	4.281225			4
6.14	6.17	6.20	33603.238281	2.833693			5
6.40	6.42	6.46	19039.601563	1.926527			6
Height Summation:			**437772.589844**				
Amount Avg CF:			**4.134935**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 02:59:52
Instrument : CP 7--H5088B
Result file : 9p7190B.019.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET
%SSR(TCX) : 101% (55-132) Conc.: 0.311496
%SSR(DCB) : 98% (36-153) Conc.: 0.295083

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	3.37	
4.05	4.08	4.11	44308.480469	5.650496			1
4.35	4.38	4.41	72266.835938	5.476295			2
4.51	4.55	4.58	56449.808594	5.89073			3
4.74	4.77	4.80	126559.48437	5.868783			4
4.98	5.01	5.04	31073.308594	5.665122			5
5.27	5.30	5.33	41264.285156	5.999634			6
Height Summation:			**371922.203126**				
Amount Avg CF:			**5.75851**	Linear:			
Aroclor-1221					3	39.10	
3.89	3.92	3.95	7741.885742	1.792933			1
E 3.98	4.01	4.04	9688.405273	2.769698			2
E 4.05	4.08	4.11	44308.480469	4.025482			3
Height Summation:			**61738.771484**				
Amount Avg CF:			**2.862704**	Linear:			
Aroclor-1232					6	29.57	
E 4.05	4.08	4.11	44308.480469	4.120186			1
E 4.35	4.38	4.41	72266.835938	10.350449			2
E 4.52	4.55	4.58	56449.808594	10.687203			3
E 4.74	4.77	4.80	126559.48437	11.136388			4
E 4.99	5.01	5.05	31073.308594	11.607512			5
E 5.28	5.30	5.34	41264.285156	12.190335			6
Height Summation:			**371922.203126**				
Amount Avg CF:			**10.015346**	Linear:			
Aroclor-1242					6	3.77	
E 4.05	4.08	4.11	44308.480469	6.698183			1
E 4.35	4.38	4.41	72266.835938	6.50408			2
E 4.52	4.55	4.58	56449.808594	7.136512			3
E 4.74	4.77	4.80	126559.48437	7.085206			4
E 4.98	5.01	5.04	31073.308594	6.655951			5
E 5.28	5.30	5.34	41264.285156	6.974442			6
Height Summation:			**371922.203126**				
Amount Avg CF:			**6.842396**	Linear:			
Aroclor-1248					6	49.21	
E 4.74	4.77	4.80	126559.48437	11.849185			1
4.98	5.01	5.05	31073.308594	4.930143			2
5.14	5.17	5.20	47283.21875	5.071718			3
5.28	5.30	5.34	41264.285156	5.388052			4
E 5.96	6.00	6.02	69197.015625	11.007205			5
6.17	6.23	6.23	19458.441406	3.903618			6
Height Summation:			**334835.753906**				
Amount Avg CF:			**7.024987**	Linear:			
Aroclor-1254					6	76.63	
5.46	5.49	5.52	57110.085938	3.210744			1
5.96	6.00	6.02	69197.015625	3.148525			2
E 6.08	6.11	6.14	101116.97656	9.532431			3
6.17	6.23	6.23	19458.441406	1.302791			4
E 6.39	6.41	6.45	114238.74218	12.338396			5
6.55	6.57	6.61	74690.335938	4.223396			6
+ 6.55	6.60	6.61	34299.089844	1.939456			6
Height Summation:			**435811.597658**				
Amount Avg CF:			**5.626047**	Linear:			

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: **LCSA** 7/17/12AF LCS13199 Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on : JUL 20, 2012 02:59:52
Instrument : CP 7--H5088A
Result file : 9p7190.019.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	86.11	
5.82	5.85	5.88	84813.179688	2.906464			1
6.14	6.17	6.20	33603.238281	0.913299			2
6.39	6.42	6.45	19039.601563	0.636107			3
E 6.54	6.55	6.60	189404.98437	9.535971			4
6.63	6.66	6.69	72365.445313	3.483268			5
6.77	6.79	6.83	201303.48437	6.46528			6
Height Summation:			**600529.933595**				
Amount Avg CF:			**3.990065**	Linear:			
Aroclor-1260					6	2.03	
6.29	6.31	6.35	157306.57812	4.809278			1
6.52	6.55	6.58	189404.98437	4.829776			2
6.77	6.79	6.83	201303.48437	4.880416			3
7.04	7.06	7.10	125928.875	4.870962			4
7.35	7.37	7.41	285482.65625	5.021487			5
7.65	7.68	7.71	138842.84375	4.723057			6
Height Summation:			**1098269.421875**				
Amount Avg CF:			**4.855829**	Linear:			
Aroclor-1262					6	40.79	
E 6.52	6.55	6.58	189404.98437	6.9472			1
E 6.84	6.87	6.90	78210.078125	2.520873			2
E 7.04	7.06	7.10	125928.875	4.146899			3
E 7.35	7.37	7.41	285482.65625	4.060371			4
E 7.65	7.68	7.71	138842.84375	3.534786			5
E 8.42	8.45	8.48	71212.8125	2.592338			6
Height Summation:			**889082.250000**				
Amount Avg CF:			**3.967078**	Linear:			
Aroclor-1268					6	113.12	
7.65	7.68	7.71	138842.84375	1.74383			1
7.74	7.76	7.80	39606.804688	0.578138			2
7.97	7.99	8.03	7251.697754	0.101119			3
8.08	8.10	8.14	2571.754883	0.143806			4
E 8.43	8.45	8.49	71212.8125	2.220231			5
8.87	8.89	8.93	27689.375	0.138173			6
Height Summation:			**287175.288575**				
Amount Avg CF:			**0.820883**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 02:59:52
Instrument : CP 7--H5088B
Result file : 9p7190B.019.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	3.61	
6.25	6.28	6.31	121209.28125	5.679979			1
6.39	6.41	6.45	114238.74218	5.972437			2
6.55	6.57	6.61	74690.335938	5.917744			3
+ 6.55	6.60	6.61	34299.089844	~~2.71753~~			3
6.76	6.79	6.82	13530.15625	6.328062			4
7.04	7.07	7.10	197359.40625	5.844721			5
7.39	7.41	7.45	141117.32812	5.913279			6
Height Summation:			**662145.250001**				
Amount Avg CF:				**5.942704**	Linear:		
Aroclor-1262					6	41.81	
E 6.39	6.41	6.45	114238.74218	7.209994			1
E 6.58	6.60	6.64	34299.089844	2.016467			2
E 6.81	6.84	6.87	82910.679688	3.958779			3
E 7.04	7.07	7.10	197359.40625	4.573852			4
E 7.39	7.41	7.45	141117.32812	4.498122			5
E 7.97	8.00	8.03	55287.859375	3.018885			6
Height Summation:			**625213.105470**				
Amount Avg CF:			**4.212683**	Linear:			
Aroclor-1268					5	103.30	
7.32	7.35	7.38	41091.800781	0.804877			1
E 7.39	7.41	7.45	141117.32812	2.94799			2
7.61	7.64	7.67	4828.264648	0.10017			3
E 7.97	8.00	8.03	55287.859375	2.646809			5
8.34	8.37	8.40	19647.328125	0.146375			6
Height Summation:			**261972.581054**				
Amount Avg CF:			**1.329244**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0.5	0.1		29.71	4	40	
Aroclor-1221			0.5	0.1	E	14.66	3	40	
Aroclor-1232			0.5	0.2	E	28.16	4	40	
Aroclor-1242			0.5	0.1	E	24.00	4	40	
Aroclor-1248			0.5	0.1	E	** 51.79	4	40	
Aroclor-1254			0.5	0.1	E	34.03	4	40	
Aroclor-1260			0.5	0.15		20.13	4	40	
Aroclor-1262			0.5	0.2	E	6.01	4	40	
Aroclor-1268			0.5	0.16	E	** 47.29	4	40	
Total PCBs			0.5	0.2					

Units: ug/l

LANCASTER LABORATORIES

Sample Number: LCSA 7/17/12AF ABLCS13199 LCS 121990013A 10227 Injection Volume: 1 GW-846 8082
Injected On: 7/20/2012 2:59:52 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.019.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.607		9179	28968
1.779		2081	7541
1.966		620	1193
2.046		1117	8486
2.193		1740	6616
2.36		1036	3854
2.428		237	713
2.63		4773	10820
2.814		3300	11555
2.924		7927	12278
3.066		3421	31510
3.134		16208	27364
3.271		279	698
3.363		2046	4366
3.502		289	674
3.596		832	3888
3.792		5824	8349
3.857	TCX	274198	588579
4.06		18430	37990
4.138		23199	40731
4.205		98076	218581
4.337		12803	26899
4.505		40408	47550
4.524		27237	33207
4.623		3686	3557
4.669		111977	245719
4.772		2041	2470
4.841		34277	94129
4.923		229860	505648
4.976		81916	134741
5.061		99531	193217
5.152		47888	61074
5.192		52729	162650
5.324		30126	40156
5.352		14866	17526
5.394		13193	13405
5.443		72415	130363
5.493		11254	15247
5.608		2427	2911
5.653		93935	365076
5.795		7735	10965
5.85		84813	227376
6.028		2821	4804
6.11		32338	69200
6.166		33603	53281
6.229		63900	188770
6.314		157307	381782
6.421		19040	34048
6.489		25595	42130
6.551		189405	620375
6.657		72365	156015
6.751		8480	8978
6.794		201304	441408

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RT A	Compound A	Height A	Area A
6.866		78210	118463
6.916		43763	74507
7.065		125929	313082
7.137		40722	63764
7.185		18445	27962
7.299		37810	72605
7.375		285483	871392
7.681		138843	290700
7.761		39607	103797
7.991		7252	17719
8.101		2572	3829
8.145		28125	68665
8.451		71213	198995
8.542		1789	3157
8.894		27689	87378
9.256	DCB	154735	592902
10.165		165	601

ASX73 1986

LANCASTER LABORATORIES

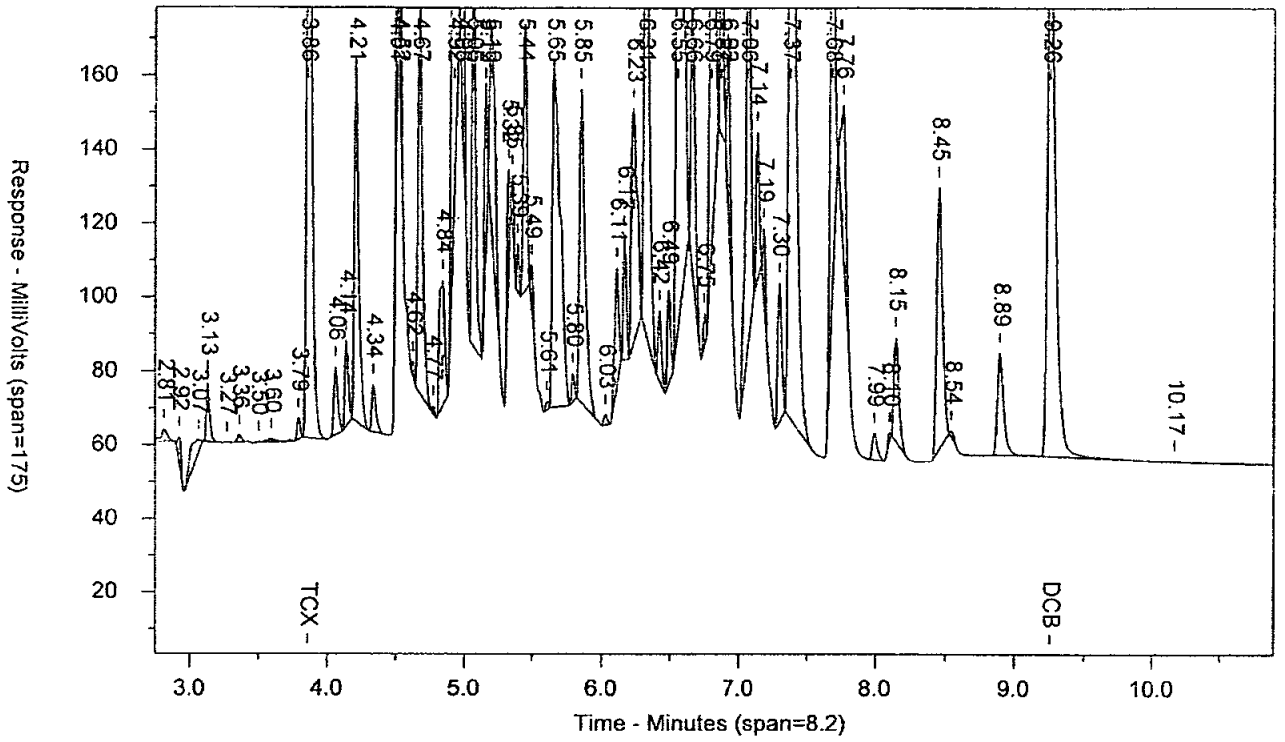
Sample Number: LCSA 7/17/12AF ABLCS13199 LCS 121990013A 10227 Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 2:59:52 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 9p7190B.019.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.598		69898	749503
2.591		1284	3645
2.74		730	1863
3.017		4404	15261
3.265		586	1243
3.433		233	593
3.698	TCX	114732	239838
3.921		7742	16300
4.006		9688	18764
4.08		44308	93748
4.239		5874	13213
4.377		72267	206712
4.547		56450	128316
4.677		16983	48936
4.769		126560	242750
4.822		38365	65154
4.934		42512	55808
4.976		17678	19412
5.011		31073	68655
5.17		47283	88520
5.23		7095	8459
5.304		41264	79217
5.365		9154	13650
5.49		57110	143408
5.627		41300	78036
5.83		1739	3266
5.908		8166	13584
6		69197	233943
6.106		101117	196844
6.226		19458	32955
6.279		121209	239903
6.415		114239	207018
6.482		4940	5330
6.527		19728	24423
6.574		74690	90835
6.604		34299	41275
6.655		28343	39203
6.785		13530	24121
6.842		82911	170328
6.931		33496	46783
6.972		5489	5048
7.069		197359	408868
7.166		3135	4540
7.347		41092	70163
7.413		141117	312213
7.637		4828	9309
7.704		2099	3050
7.827		23301	54949
7.998		55288	147522
8.373		19647	51552
8.71	DCB	111875	312034

ASX73 1987

LCSA 7/17/12AF ABLCS13199 LCS 121990013A 10227 SW-846 8082

— \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\9p7190.019.RAW



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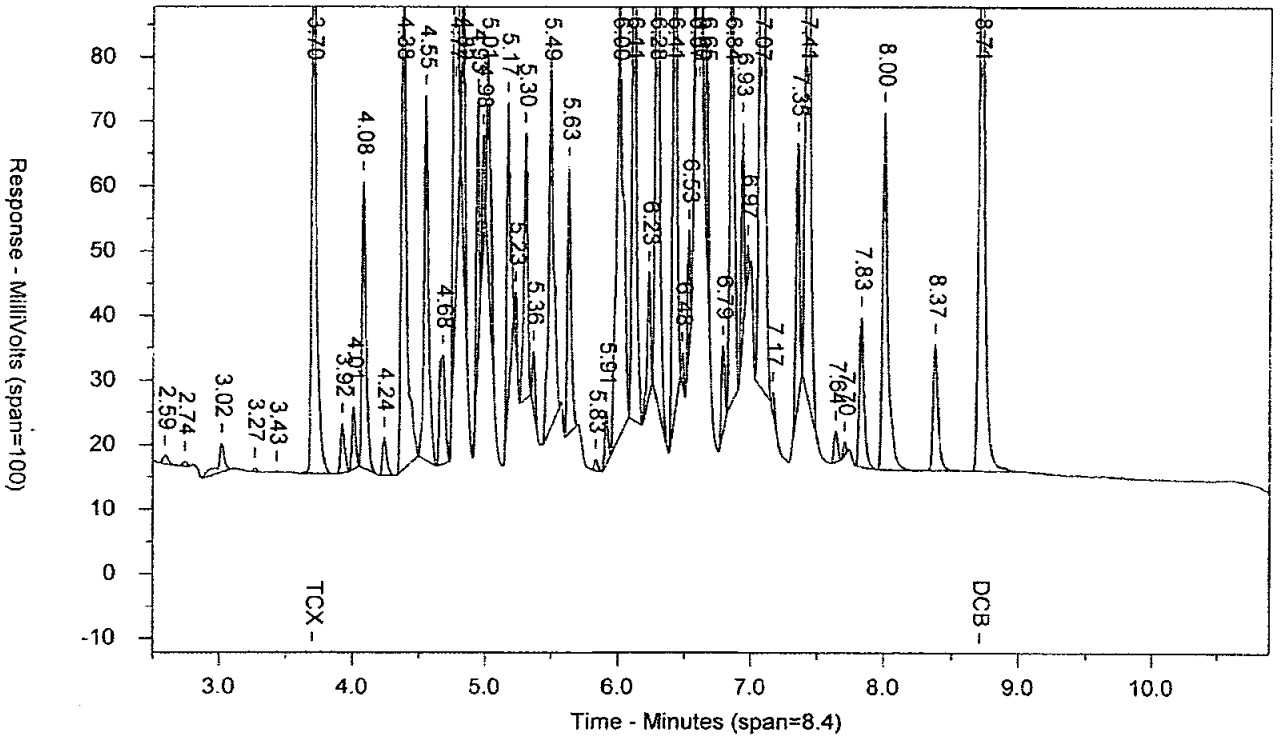

LANCASTER LABORATORIES

Sample Number: LCSA 7/17/12AF ABLCS13199 LCS 121990013A 10227 Sample Weight: 1009W-846 8082
Injected On: 7/20/2012 2:59:52 AM Dilution Factor: 10
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.857	274198	.257	TCX	3.698	114732	.311	TCX
9.256	154735	.275	DCB	8.71	111875	.295	DCB

Files:
Area File: 9p7190.019.RAW
Area File: 9p7190B.019.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 3:10:28 AM
File Reported On: 7/20/2012 at 3:10:54 AM

ASX73 1999

LCSA 7/17/12AF ABLCS13199 LCS 121990013A 10227 SW-846 8082

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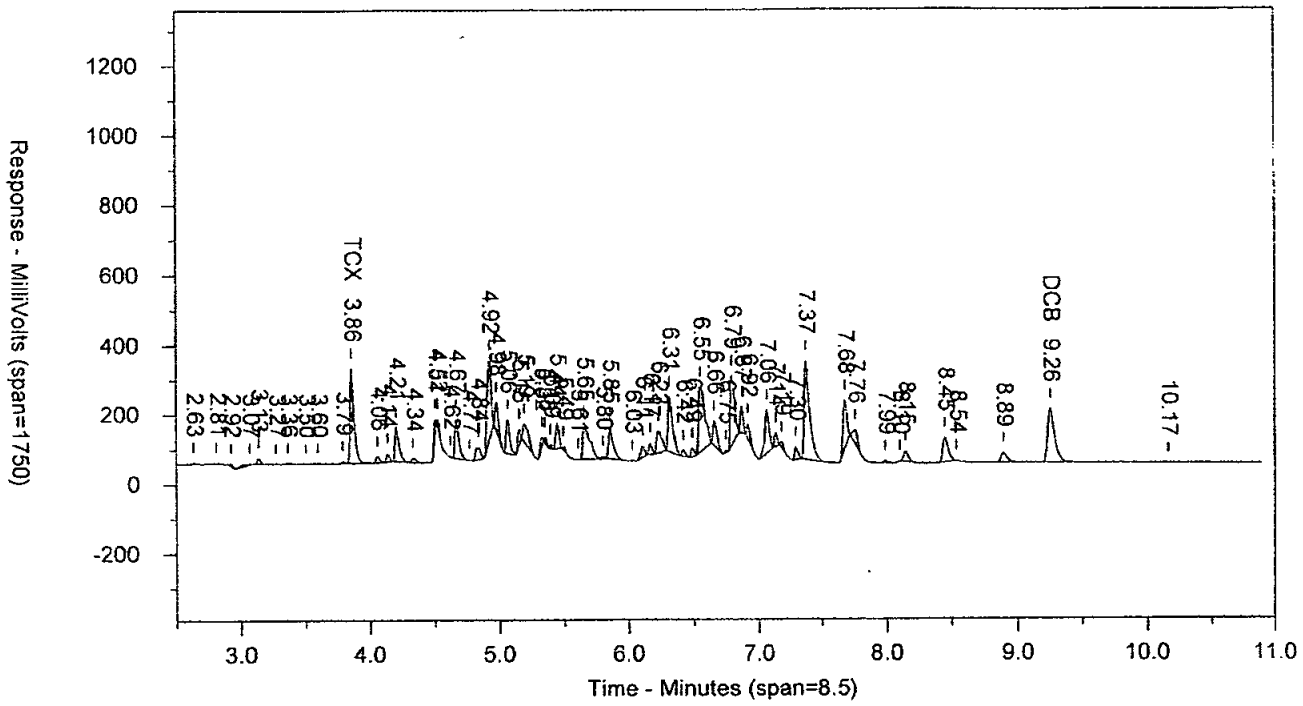

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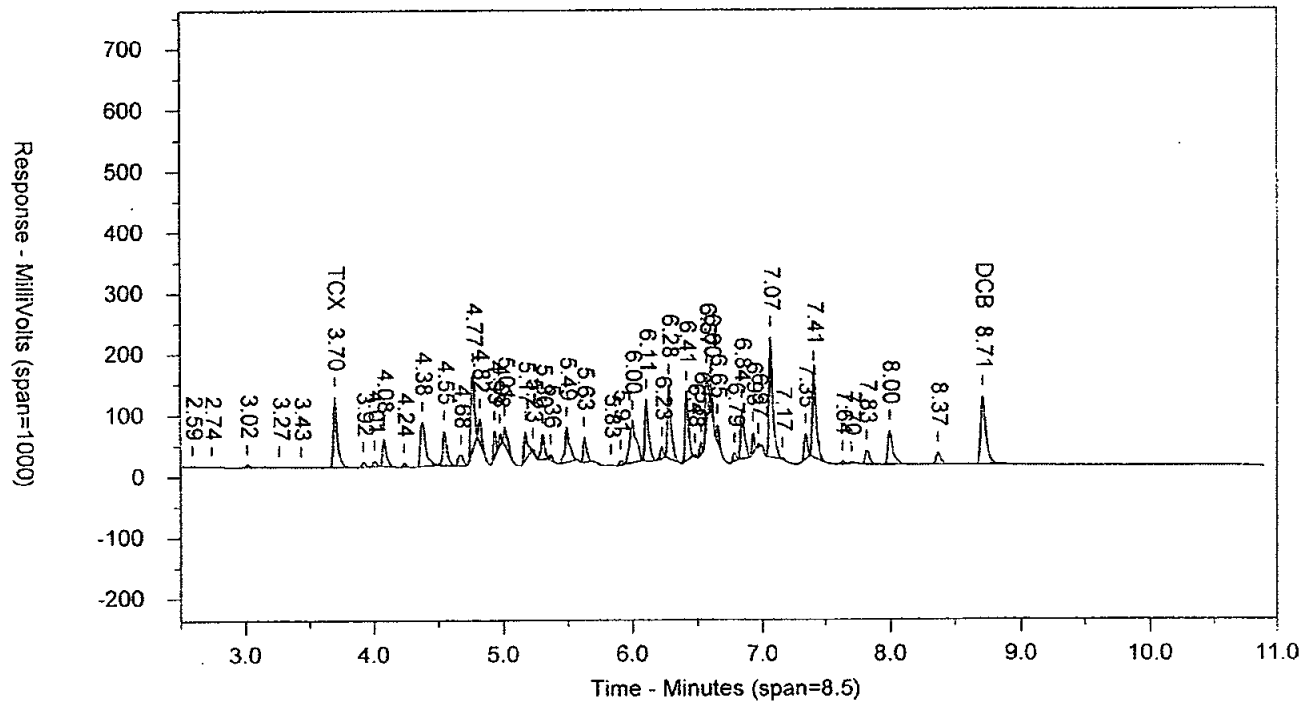


Data Summary

Sample Name: LCSDA 7/17/12AF LCSD13199 LCSD Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 3172 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on Jul 20, 2012 03:14:39
Instrument H5088A
Result file 9P7190.020.RAW
Calibration file 1P7190
Method file PESTDI7

%SSR(TCX) 89% (55 - 132) Conc: 0.275152
%SSR(DCB) 94% (36 - 153) Conc: 0.281355

Analysis Report (B)

Injected on Jul 20, 2012 03:14:39
Instrument H5088B
Result file 9P7190B.020.RAW
Calibration file 1P7190B
Method file PESTDI7B

%SSR(TCX) 107% (55 - 132) Conc: 0.331748
%SSR(DCB) 101% (36 - 153) Conc: 0.303724

Single Component Data

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.85	3.88	293976	0.275152
Decachlorobiphenyl	9.23	9.25	9.29	157896	0.281355

Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.66	3.69	3.72	122192	0.331748
Decachlorobiphenyl	8.68	8.70	8.74	115151	0.303724

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
Tetrachloro-m-xylene	B	0.331748				18.65	
Decachlorobiphenyl	B	0.303724				7.65	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**27.30**	
4.17	4.20	4.23	101626.60156	4.736825			1
4.64	4.67	4.70	116632.6875	4.84205			2
4.89	4.92	4.95	237960.82812	5.366617			3
4.95	4.97	5.01	83013.3125	4.719492			4
5.03	5.06	5.09	102448.29687	5.010324			5
5.29	5.32	5.35	36081.230469	2.018352			6
Height summation:			**677762.957032**				
Concentration		CF:	**4.448943**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**3.21**	
4.05	4.08	4.11	46237.589844	5.896509			1
4.35	4.37	4.41	75479.109375	5.719718			2
4.51	4.54	4.58	58886.398438	6.144997			3
4.74	4.76	4.80	129986.0625	6.027679			4
4.98	5.01	5.04	32703.283203	5.962291			5
5.27	5.30	5.33	43127.066406	6.270474			6
Height summation:			**386419.509766**				
Concentration		CF:	**6.003611**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**1.90**	
6.29	6.31	6.35	163079.53125	4.985772			1
6.52	6.55	6.58	196233.32812	5.003897			2
6.77	6.79	6.83	204646.48437	4.961464			3
7.04	7.06	7.10	132478.5	5.124303			4
7.35	7.37	7.41	295691.0625	5.201047			5
7.65	7.68	7.71	146723.10937	4.991122			6
Height summation:			**1138852.015625**				
Concentration		CF:	**5.044601**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260						**4.38**	
6.25	6.28	6.31	125725.46875	5.891612			1
6.39	6.41	6.45	117827.91406	6.16008			2
6.55	6.57	6.61	74797.304688	5.926219			3
6.76	6.78	6.82	14179.879883	6.631938			4
7.04	7.06	7.10	204368.26562	6.052286			5
7.39	7.41	7.45	145195.07812	6.08415			6
Height summation:			**682093.911134**				
Concentration		CF:	**6.124381**	L:			

Data Summary

Sample Name: LCSDA 7/17/12AF LCSD13199 LCSD Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 3172 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on	Jul 20, 2012 03:14:39
Instrument	H5088A
Result file	9P7190.020.RAW
Calibration file	1P7190
Method file	PESTDI7

Analysis Report (B)

Injected on	Jul 20, 2012 03:14:39
Instrument	H5088B
Result file	9P7190B.020.RAW
Calibration file	1P7190B
Method file	PESTDI7B

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
Aroclor-1016	B	6.003611	0.5	0.1		29.75	4	40	
Aroclor-1221			<0.5	<0.1			3	40	
Aroclor-1232			<0.5	<0.2			4	40	
Aroclor-1242			<0.5	<0.1			4	40	
Aroclor-1248			<0.5	<0.1			4	40	
Aroclor-1254			<0.5	<0.1			4	40	
Aroclor-1260	B	6.124381	0.5	0.15		19.34	4	40	
Aroclor-1262			<0.5	<0.2			4	40	
Aroclor-1268			<0.5	<0.16			4	40	
Total PCBs			<0.5	<0.2					

Units: ug/l

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

Reviewed by: Monica M. Souders, Chemist
Date: JUL 20 2012

Verified by: Jennifer E. Lewis, Manager
Date: JUL 25 2012

7/20/2012

Lancaster Laboratories-Multiple Component Peak Data Report

Sample Name: LCSDA 7/17/12AF LCSD13199 Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on : JUL 20, 2012 03:14:39
Instrument : CP 7–H5088A
Result file : 9p7190.020.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

%SSR(TCX) : 89% (55-132) Conc.: 0.275152
%SSR(DCB) : 94% (36-153) Conc.: 0.281355

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	27.30	
4.17	4.20	4.23	101626.60156	4.736825			1
4.64	4.67	4.70	116632.6875	4.84205			2
4.89	4.92	4.95	237960.82812	5.366617			3
4.95	4.97	5.01	83013.3125	4.719492			4
5.03	5.06	5.09	102448.29687	5.010324			5
5.29	5.32	5.35	36081.230469	2.018352			6
+ 5.29	5.35	5.35	14926.362305	0.834967			6
Height Summation:			677762.957032				
Amount Avg CF:			4.448943	Linear:			
Aroclor-1221					3	39.09	
4.03	4.06	4.09	19621.25	1.653012			1
E 4.11	4.13	4.17	24498.207031	2.455345			2
E 4.18	4.20	4.24	101626.60156	3.664993			3
Height Summation:			145746.058594				
Amount Avg CF:			2.591117	Linear:			
Aroclor-1232					6	38.95	
E 4.18	4.20	4.24	101626.60156	3.708662			1
E 4.64	4.67	4.71	116632.6875	10.04718			2
E 4.90	4.92	4.96	237960.82812	10.410624			3
E 4.95	4.97	5.01	83013.3125	8.866575			4
E 5.04	5.06	5.10	102448.29687	9.967242			5
E 5.30	5.32	5.36	36081.230469	4.246099			6
+ 5.30	5.35	5.36	14926.362305	1.756559			6
Height Summation:			677762.957032				
Amount Avg CF:			7.874397	Linear:			
Aroclor-1242					6	27.33	
E 4.18	4.20	4.24	101626.60156	5.877938			1
E 4.64	4.67	4.70	116632.6875	6.242049			2
E 4.89	4.92	4.96	237960.82812	6.537924			3
E 4.95	4.97	5.01	83013.3125	6.065786			4
E 5.03	5.06	5.09	102448.29687	6.375921			5
E 5.30	5.32	5.36	36081.230469	2.512008			6
+ 5.30	5.35	5.36	14926.362305	1.039187			6
Height Summation:			677762.957032				
Amount Avg CF:			5.601938	Linear:			
Aroclor-1248					6	75.76	
E 4.90	4.92	4.96	237960.82812	10.467943			1
5.17	5.19	5.23	54021.339844	4.490709			2
5.30	5.32	5.36	36081.230469	1.525043			3
+ 5.30	5.35	5.36	14926.362305	0.630891			3
5.42	5.44	5.48	74439.757813	4.400907			4
6.14	6.16	6.20	34413.890625	2.902054			5
6.40	6.42	6.46	19804.195313	2.003893			6
Height Summation:			456721.242189				
Amount Avg CF:			4.298425	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 03:14:39
Instrument : CP 7–H5088B
Result file : 9p7190B.020.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : 107% (55-132) Conc.: 0.331748
%SSR(DCB) : 101% (36-153) Conc.: 0.303724

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	3.21	
4.05	4.08	4.11	46237.589844	5.896509			1
4.35	4.37	4.41	75479.109375	5.719718			2
4.51	4.54	4.58	58886.398438	6.144997			3
4.74	4.76	4.80	129986.0625	6.027679			4
4.98	5.01	5.04	32703.283203	5.962291			5
5.27	5.30	5.33	43127.066406	6.270474			6
Height Summation:			386419.509766				
Amount Avg CF:			6.003611	Linear:			
Aroclor-1221					3	38.42	
3.89	3.92	3.95	8165.347656	1.891002			1
E 3.98	4.00	4.04	10280.422852	2.938943			2
E 4.05	4.08	4.11	46237.589844	4.200744			3
Height Summation:			64683.360352				
Amount Avg CF:			3.01023	Linear:			
Aroclor-1232					6	29.61	
E 4.05	4.08	4.11	46237.589844	4.299571			1
E 4.35	4.37	4.41	75479.109375	10.810528			2
E 4.52	4.54	4.58	58886.398438	11.148504			3
E 4.74	4.76	4.80	129986.0625	11.437904			4
E 4.99	5.01	5.05	32703.283203	12.216393			5
E 5.28	5.30	5.34	43127.066406	12.74064			6
Height Summation:			386419.509766				
Amount Avg CF:			10.442257	Linear:			
Aroclor-1242					6	3.40	
E 4.05	4.08	4.11	46237.589844	6.98981			1
E 4.35	4.37	4.41	75479.109375	6.793188			2
E 4.52	4.54	4.58	58886.398438	7.444551			3
E 4.74	4.76	4.80	129986.0625	7.277036			4
E 4.98	5.01	5.04	32703.283203	7.005094			5
E 5.28	5.30	5.34	43127.066406	7.289287			6
Height Summation:			386419.509766				
Amount Avg CF:			7.133161	Linear:			
Aroclor-1248					6	48.18	
E 4.74	4.76	4.80	129986.0625	12.17			1
4.98	5.01	5.05	32703.283203	5.188757			2
5.14	5.17	5.20	48867.691406	5.241672			3
5.28	5.30	5.34	43127.066406	5.631283			4
E 5.96	6.00	6.02	70771.375	11.257639			5
6.17	6.22	6.23	20346.902344	4.081855			6
Height Summation:			345802.380859				
Amount Avg CF:			7.261868	Linear:			
Aroclor-1254					6	77.03	
5.46	5.49	5.52	59219.847656	3.329356			1
5.96	6.00	6.02	70771.375	3.220159			2
E 6.08	6.10	6.14	104601.49218	9.860921			3
6.17	6.22	6.23	20346.902344	1.362276			4
E 6.39	6.41	6.45	117827.91406	12.726046			5
6.55	6.57	6.61	74797.304688	4.229445			6
+ 6.55	6.60	6.61	37317.300781	2.110122			6
Height Summation:			447564.835939				
Amount Avg CF:			5.788034	Linear:			

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: LCSDA 7/17/12AF LCSD13199 Sample ID: AB **Batchnumber: 121990013A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10227

Analysis Report (A)

Injected on : JUL 20, 2012 03:14:39
Instrument : CP 7--H5088A
Result file : 9p7190.020.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1254					6	86.15	
5.82	5.85	5.88	88004.65625	3.015833			1
6.14	6.16	6.20	34413.890625	0.935331			2
6.39	6.42	6.45	19804.195313	0.661651			3
E 6.54	6.55	6.60	196233.32812	9.879758			4
6.63	6.65	6.69	75025.65625	3.611315			5
6.77	6.79	6.83	204646.48437	6.572648			6
Height Summation:			618128.210938				
Amount Avg CF:			4.112756	Linear:			
Aroclor-1260					6	1.90	
6.29	6.31	6.35	163079.53125	4.985772			1
6.52	6.55	6.58	196233.32812	5.003897			2
6.77	6.79	6.83	204646.48437	4.961464			3
7.04	7.06	7.10	132478.5	5.124303			4
7.35	7.37	7.41	295691.0625	5.201047			5
7.65	7.68	7.71	146723.10937	4.991122			6
Height Summation:			1138852.015625				
Amount Avg CF:			5.044601	Linear:			
Aroclor-1262					6	40.82	
E 6.52	6.55	6.58	196233.32812	7.197657			1
E 6.84	6.86	6.90	80156.945313	2.583624			2
E 7.04	7.06	7.10	132478.5	4.362581			3
E 7.35	7.37	7.41	295691.0625	4.205563			4
E 7.65	7.68	7.71	146723.10937	3.735408			5
E 8.42	8.44	8.48	73136.9375	2.662381			6
Height Summation:			924419.882813				
Amount Avg CF:			4.124536	Linear:			
Aroclor-1268					6	84.69	
7.65	7.68	7.71	146723.10937	1.842804			1
7.74	7.76	7.80	42044.660156	0.613723			2
7.97	7.99	8.03	7508.73877	0.104703			3
+ 8.08	8.10	8.14	2402.301025	0.134331			4
8.08	8.14	8.14	29756.246094	1.663894			4
E 8.43	8.44	8.49	73136.9375	2.280221			5
8.87	8.89	8.93	28789.662109	0.143664			6
Height Summation:			327959.354004				
Amount Avg CF:			1.108168	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 03:14:39
Instrument : CP 7--H5088B
Result file : 9p7190B.020.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	4.38	
6.25	6.28	6.31	125725.46875	5.891612			1
6.39	6.41	6.45	117827.91406	6.16008			2
6.55	6.57	6.61	74797.304688	5.926219			3
+ 6.55	6.60	6.61	37317.300781	2.058684			3
6.76	6.78	6.82	14179.879883	6.631938			4
7.04	7.06	7.10	204368.26562	6.052286			5
7.39	7.41	7.45	145195.07812	6.08415			6
Height Summation:			682093.911134				
Amount Avg CF:			6.124381	Linear:			
Aroclor-1262					6	40.99	
E 6.39	6.41	6.45	117827.91406	7.436518			1
E 6.58	6.60	6.64	37317.300781	2.193909			2
E 6.81	6.84	6.87	85200.648438	4.068119			3
E 7.04	7.06	7.10	204368.26562	4.736284			4
E 7.39	7.41	7.45	145195.07812	4.6281			5
E 7.97	7.99	8.03	57130.78125	3.119514			6
Height Summation:			647039.988282				
Amount Avg CF:			4.363741	Linear:			
Aroclor-1268					5	103.36	
7.32	7.34	7.38	42152.144531	0.825647			1
E 7.39	7.41	7.45	145195.07812	3.033176			2
7.61	7.63	7.67	4982.718262	0.103375			3
E 7.97	7.99	8.03	57130.78125	2.735035			5
8.34	8.37	8.40	20247.007813	0.150843			6
Height Summation:			269707.729981				
Amount Avg CF:			1.369615	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			0.5	0.1		29.75	4	40	
Aroclor-1221			0.5	0.1	E	14.96	3	40	
Aroclor-1232			0.5	0.2	E	28.04	4	40	
Aroclor-1242			0.5	0.1	E	24.05	4	40	
Aroclor-1248			0.5	0.1	E	** 51.27	4	40	
Aroclor-1254			0.5	0.1	E	33.84	4	40	
Aroclor-1260			0.5	0.15		19.34	4	40	
Aroclor-1262			0.5	0.2	E	5.64	4	40	
Aroclor-1268			0.5	0.16	E	21.10	4	40	
Total PCBs			0.5	0.2					

Units: ug/l

LANCASTER LABORATORIES

Sample Number: LCSDA 7/17/12AF ABLCSD13199 LCSD 121990013A 10227 Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 3:14:39 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.020.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.602		16332	51902
1.768		1024	2668
1.961		689	1493
2.046		1354	10135
2.176		2485	9766
2.254		1701	3757
2.351		976	3712
2.456		314	1737
2.626		5018	11532
2.809		5740	13907
2.92		5660	8236
3.012		2481	6740
3.129		27828	47641
3.264		181	493
3.357		1957	3928
3.495		209	429
3.579		1068	3435
3.787		5636	8302
3.853	TCX	293976	632225
4.055		19621	40538
4.134		24498	43224
4.201		101627	211866
4.287		11256	15101
4.332		9892	16098
4.501		41290	50914
4.52		25885	32796
4.619		3631	3592
4.665		116633	256995
4.769		2597	3176
4.837		35685	97190
4.919		237961	525313
4.972		83013	137488
5.057		102448	199779
5.148		47396	60958
5.187		54021	168949
5.32		36081	50071
5.347		14926	17671
5.389		14121	13941
5.439		74440	134617
5.49		12692	17135
5.604		2689	3100
5.649		97285	381423
5.791		8186	11708
5.846		88005	236376
6.023		3049	5191
6.106		33663	71965
6.161		34414	54148
6.224		71436	209197
6.31		163080	396260
6.417		19804	35282
6.485		26564	44427
6.547		196233	639856
6.653		75026	162862

ASX73 1915

RT A	Compound A	Height A	Area A
6.747		8857	9748
6.789		204647	453985
6.862		80157	121153
6.912		45239	75624
7.06		132479	323410
7.133		41482	65751
7.181		20166	29916
7.295		38541	74543
7.37		295691	898227
7.677		146723	303046
7.756		42045	105269
7.985		7509	18473
8.097		2402	3874
8.14		29756	71332
8.445		73137	205939
8.536		1848	3145
8.887		28790	89961
9.247	DCB	157896	612042
10.152		166	683

ASX73 1916

LANCASTER LABORATORIES

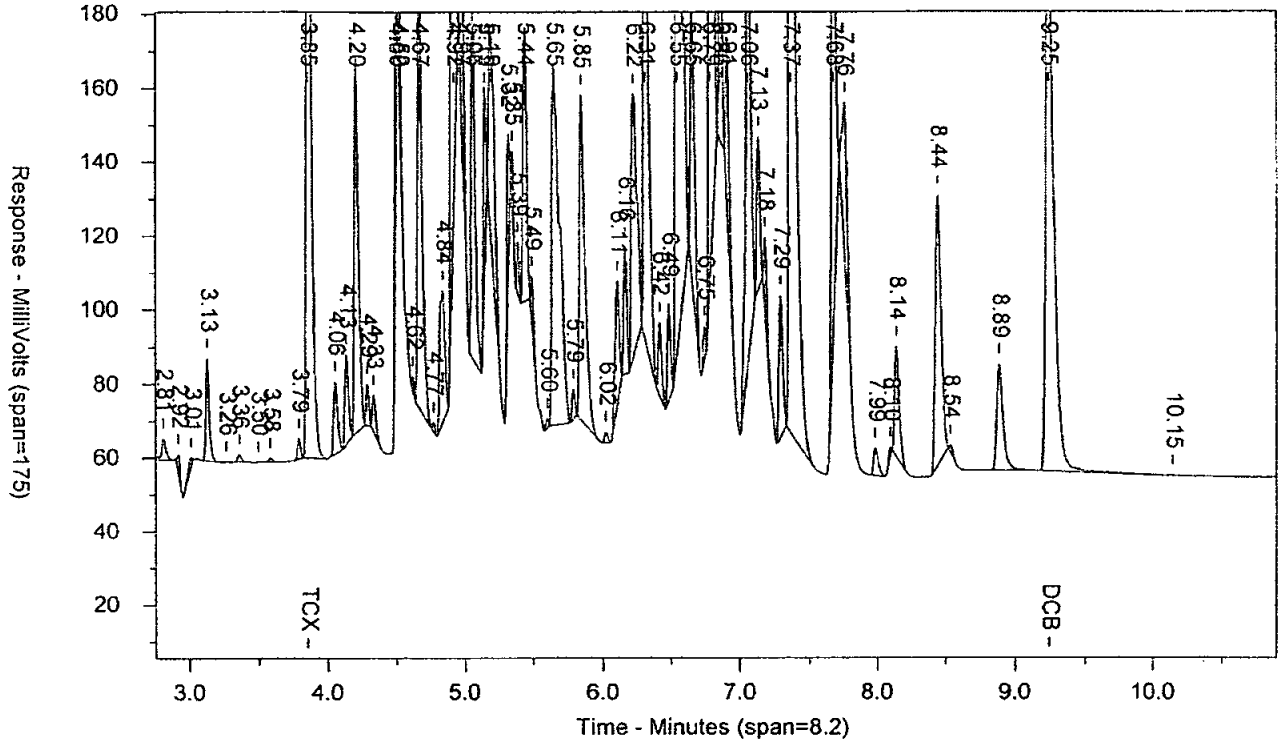
Sample Number: LCSDA 7/17/12AF ABLCSD13199 LCSD 121990013A 10227Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 3:14:39 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 min
Column A ID: ZB Multiresidue-1 30m x 0.32mm x 0.5um
Column B ID: ZB Multiresidue-2 30m x 0.32mm x 0.25um
Data File: 9p7190B.020.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.594		92971	967183
2.109		480	982
2.583		1277	3675
2.727		1323	3315
3.011		7848	28750
3.26		592	1290
3.425		335	767
3.692	TCX	122192	256140
3.916		8165	17198
4.001		10280	19915
4.075		46238	112550
4.234		6140	13754
4.373		75479	216421
4.542		58886	134116
4.673		18177	51867
4.764		129986	250810
4.818		40620	67588
4.929		43454	57020
4.971		17943	19175
5.006		32703	72677
5.166		48868	92585
5.225		7254	8648
5.299		43127	82193
5.36		9753	14683
5.486		59220	148296
5.568		2414	2809
5.622		43115	80876
5.826		1841	3569
5.904		8498	14143
5.996		70771	243944
6.101		104602	202657
6.222		20347	34780
6.275		125726	247550
6.41		117828	211809
6.477		5154	5657
6.523		20064	24975
6.569		74797	93621
6.6		37317	44000
6.65		29280	41423
6.781		14180	25016
6.838		85201	175539
6.926		34851	49132
6.968		5587	5213
7.064		204368	418804
7.16		3140	4481
7.342		42152	71779
7.407		145195	321661
7.632		4983	9571
7.698		2135	3064
7.822		24116	56380
7.991		57131	152549
8.366		20247	52192
8.702	DCB	115151	320980

ASX73 1917

LCSDA 7/17/12AF ABLCSD13199 LCSD 121990013A 10227 SW-846 8082

—— \\USLAN-CHROMPERF\CHROMPERFECT-DATA\DEPT-24\ACTIVE\CP7\9p7190.020.RAW



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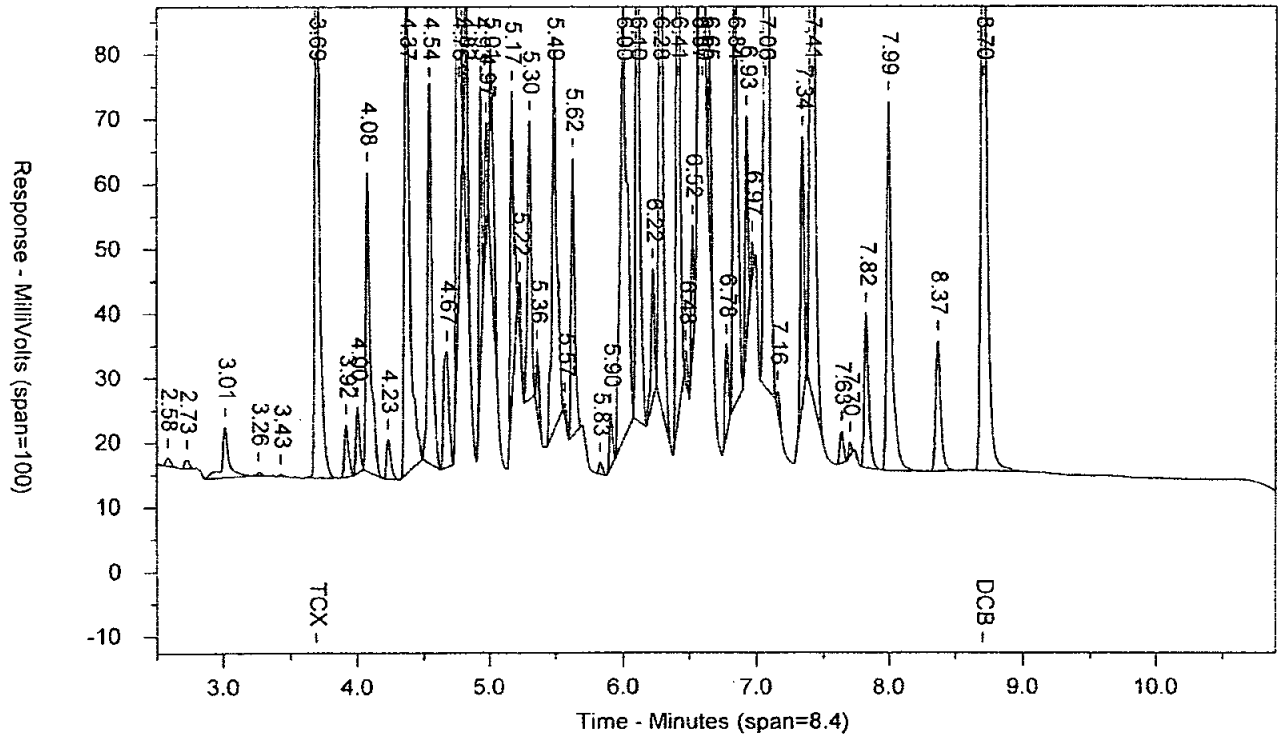

ASX73 1918

LANCASTER LABORATORIES

Sample Number: LCSDA 7/17/12AF ABLCSD13199 LCSD 121990013A 10227 Sample Weight: 1000 SW-846 8082
Injected On: 7/20/2012 3:14:39 AM Dilution Factor: 10
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.853	293976	.275	TCX	3.692	122192	.332	TCX
9.247	157896	.281	DCB	8.702	115151	.304	DCB

Files:
Area File: 9p7190.020.RAW
Area File: 9p7190B.020.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 3:25:15 AM
File Reported On: 7/20/2012 at 3:25:40 AM

ASX73 1919

LCSDA 7/17/12AF ABLCSD13199 LCSD 121990013A 10227 SW-846 8082

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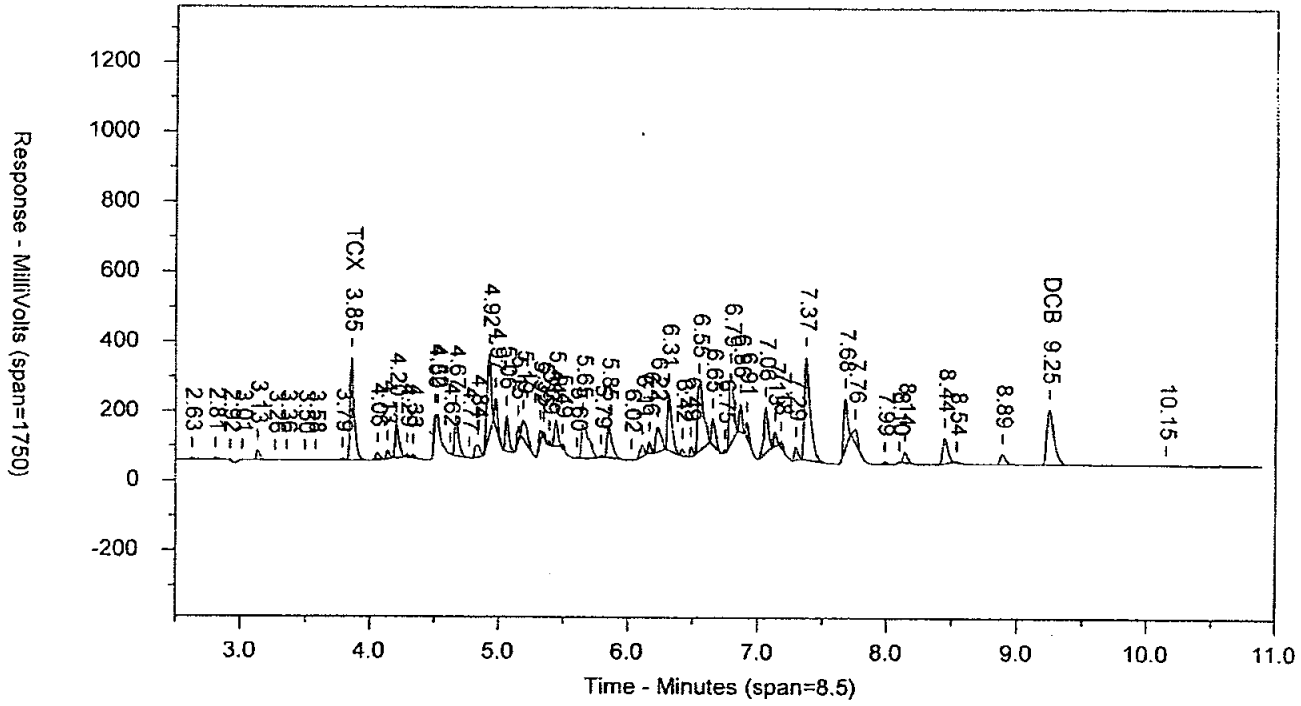

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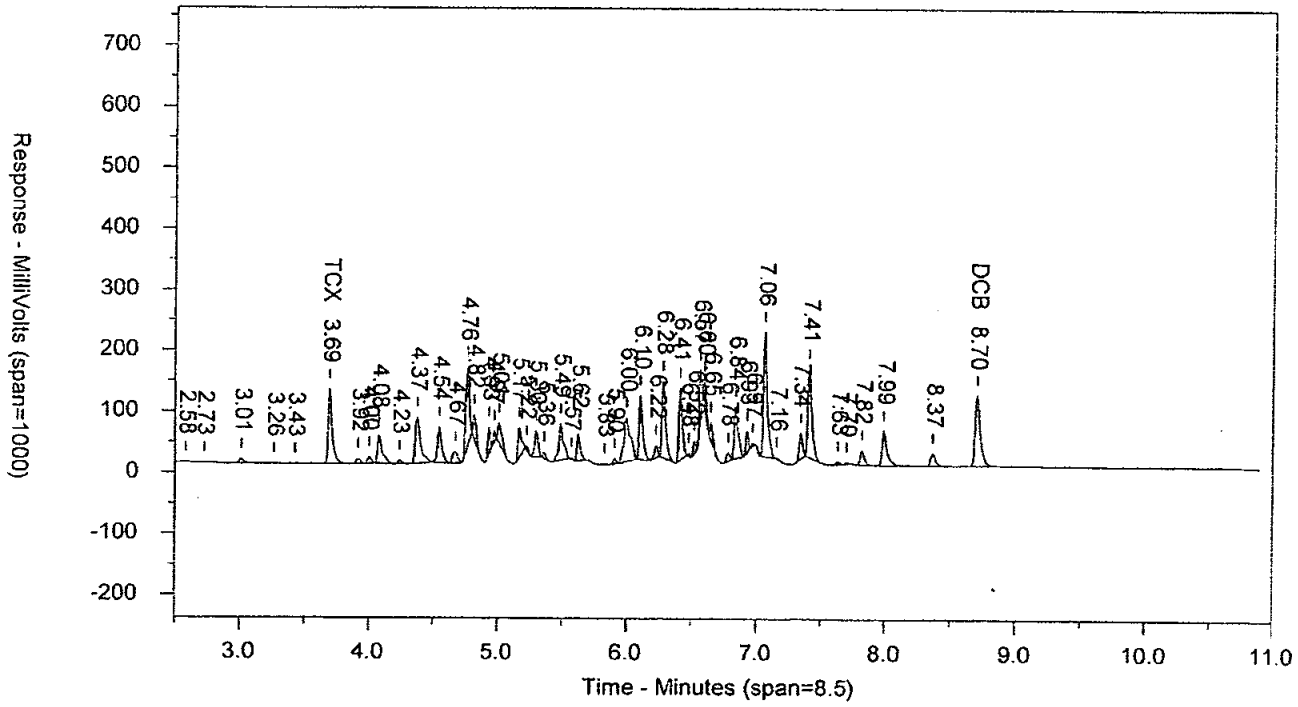

ASX73 1920

Data Summary

Sample Name: LCSA 7/18/12ACF LCS24199 LCS Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 10 ml Analyst: 3172 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on Jul 20, 2012 04:28:08
Instrument H5088A
Result file 9P7190.025.RAW
Calibration file 1P7190
Method file PESTDI7

%SSR(TCX) 86% (33 - 143) Conc: 8.842134
%SSR(DCB) 91% (24 - 164) Conc: 9.069061

Analysis Report (B)

Injected on Jul 20, 2012 04:28:08
Instrument H5088B
Result file 9P7190B.025.RAW
Calibration file 1P7190B
Method file PESTDI7B

%SSR(TCX) 102% (33 - 143) Conc: 10.548803
%SSR(DCB) 99% (24 - 164) Conc: 9.884293

Single Component Data

Compound	Min	RT	Max	Height	Amount	Compound	Min	RT	Max	Height	Amount
Tetrachloro-m-xylene	3.82	3.85	3.88	283411	8.842134	Tetrachloro-m-xylene	3.66	3.69	3.72	116562	10.548803
Decachlorobiphenyl	9.23	9.25	9.29	153456	9.069061	Decachlorobiphenyl	8.68	8.71	8.74	112423	9.884293

Single Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	Comments
☐ Tetrachloro-m-xylene	B	10.548803				17.60	
☐ Decachlorobiphenyl	B	9.884293				8.60	

Multiple Component Data

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**4.57**	
4.17	4.20	4.23	97518	151.510773			1
4.64	4.67	4.70	111041.3125	153.664068			2
4.89	4.92	4.95	227943.98437	171.357053			3
4.95	4.97	5.01	80973.398438	153.450605			4
5.03	5.06	5.09	96607.742188	157.489547			5
5.29	5.32	5.35	84412.578125	157.39882			6
Height summation:			**698497.015626**				
Concentration		CF:	**157.478478**	L:			
Aroclor-1260						**1.95**	
6.29	6.31	6.35	153294.8125	156.220924			1
6.52	6.55	6.58	183109.29687	155.64126			2
6.77	6.79	6.83	195467	157.963854			3
7.04	7.06	7.10	124470.6875	160.485287			4
7.35	7.37	7.41	279492.78125	163.870928			5
7.65	7.68	7.71	138699.125	157.272255			6
Height summation:			**1074533.703125**				
Concentration		CF:	**158.575751**	L:			

Min	RT	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016						**3.16**	
4.05	4.08	4.11	44140.679688	187.636579			1
4.35	4.37	4.41	72594.710938	183.371377			2
4.51	4.54	4.58	56324.128906	195.920508			3
4.74	4.77	4.80	126478.49218	195.500909			4
4.98	5.01	5.04	30584.294922	185.865593			5
5.27	5.30	5.33	40744.597656	197.469141			6
Height summation:			**370866.904298**				
Concentration		CF:	**190.960685**	L:			
Aroclor-1260						**3.73**	
6.25	6.28	6.31	117859.78125	184.10062			1
6.39	6.41	6.45	111120.10937	193.64646			2
6.55	6.57	6.61	73834.375	194.997539			3
6.76	6.78	6.82	13209.405273	205.934891			4
7.04	7.07	7.10	192716.32812	190.240613			5
7.39	7.41	7.45	137094.09375	191.489742			6
Height summation:			**645834.092773**				
Concentration		CF:	**193.401644**	L:			

Data Summary

Sample Name: LCSA 7/18/12ACF LCS24199 LCS Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 10 ml Analyst: 3172 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on	Jul 20, 2012 04:28:08
Instrument	H5088A
Result file	9P7190.025.RAW
Calibration file	1P7190
Method file	PESTDI7

Analysis Report (B)

Injected on	Jul 20, 2012 04:28:08
Instrument	H5088B
Result file	9P7190B.025.RAW
Calibration file	1P7190B
Method file	PESTDI7B

Multiple Component Summary

Compound Name	Column	Amount Found	LOQ	MDL	Qualifiers	%RPD	No. of Hits Required	Max %RSD	Comments
Aroclor-1016	B	190.960685	17	3.6		19.22	4	40	
Aroclor-1221			<17	<4.6			3	40	
Aroclor-1232			<17	<8			4	40	
Aroclor-1242			<17	<3.3			4	40	
Aroclor-1248			<17	<3.3			4	40	
Aroclor-1254			<17	<3.3			4	40	
Aroclor-1260	B	193.401644	17	4.9		19.79	4	40	
Aroclor-1262			<17	<3.3			4	40	
Aroclor-1268			<17	<3.3			4	40	
Total PCBs	A	384.362329	17	3.3		200.00			

Units: ug/kg

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

Reviewed by: Monica M. Souders
Chemist
Date: JUL 20 2012

Verified by: Jenifer E. Lewis
Manager
Date: JUL 25 2012

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **LCSA** 7/18/12ACF LCS24199 Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 04:28:08
Instrument : CP 7--H5088A
Result file : 9p7190.025.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

%SSR(TCX) : 86% (33-143) Conc.: 8.842134
%SSR(DCB) : 91% (24-164) Conc.: 9.069061

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	4.57	
4.17	4.20	4.23	97518	151.510773			1
4.64	4.67	4.70	111041.3125	153.664068			2
4.89	4.92	4.95	227943.98437	171.357053			3
4.95	4.97	5.01	80973.398438	153.450605			4
5.03	5.06	5.09	96607.742188	157.489547			5
5.29	5.32	5.35	84412.578125	157.39882			6
Height Summation:			698497.015626				
Amount Avg CF:			157.478478	Linear:			
Aroclor-1221					3	39.87	
4.03	4.06	4.09	18639.822266	52.344348			1
E 4.11	4.13	4.17	23024.103516	76.920082			2
E 4.18	4.20	4.24	97518	117.227451			3
Height Summation:			139181.925782				
Amount Avg CF:			82.16396	Linear:			
Aroclor-1232					6	29.06	
E 4.18	4.20	4.24	97518	118.624213			1
E 4.64	4.67	4.71	111041.3125	318.850591			2
E 4.90	4.92	4.96	227943.98437	332.413117			3
E 4.95	4.97	5.01	80973.398438	288.289803			4
E 5.04	5.06	5.10	96607.742188	313.300391			5
E 5.30	5.32	5.36	84412.578125	331.127108			6
Height Summation:			698497.015626				
Amount Avg CF:			283.767537	Linear:			
Aroclor-1242					6	3.40	
E 4.18	4.20	4.24	97518	188.010064			1
E 4.64	4.67	4.70	111041.3125	198.093502			2
E 4.89	4.92	4.96	227943.98437	208.757118			3
E 4.95	4.97	5.01	80973.398438	197.224309			4
E 5.03	5.06	5.09	96607.742188	200.414368			5
E 5.30	5.32	5.36	84412.578125	195.896028			6
Height Summation:			698497.015626				
Amount Avg CF:			198.065898	Linear:			
Aroclor-1248					6	64.81	
E 4.90	4.92	4.96	227943.98437	334.243321			1
5.17	5.19	5.23	52200.566406	144.645023			2
5.30	5.32	5.36	84412.578125	118.928677			3
5.42	5.44	5.48	71592.046875	141.084975			4
6.14	6.16	6.20	31818.794922	89.440492			5
6.40	6.42	6.46	18567.335938	62.624706			6
Height Summation:			486535.306641				
Amount Avg CF:			148.494532	Linear:			
Aroclor-1254					6	86.29	
5.82	5.85	5.88	82320.320313	94.034542			1
6.14	6.16	6.20	31818.794922	28.826652			2
6.39	6.42	6.45	18567.335938	20.677615			3
E 6.54	6.55	6.60	183109.29687	307.300074			4
6.63	6.65	6.69	69355.289063	111.27919			5
6.77	6.79	6.83	195467	209.260982			6
Height Summation:			580638.037111				
Amount Avg CF:			128.563176	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 04:28:08
Instrument : CP 7--H5088B
Result file : 9p7190B.025.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

%SSR(TCX) : 102% (33-143) Conc.: 10.548803
%SSR(DCB) : 99% (24-164) Conc.: 9.884293

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016					6	3.16	
4.05	4.08	4.11	44140.679688	187.636579			1
4.35	4.37	4.41	72594.710938	183.371377			2
4.51	4.54	4.58	56324.128906	195.920508			3
4.74	4.77	4.80	126478.49218	195.500909			4
4.98	5.01	5.04	30584.294922	185.665593			5
5.27	5.30	5.33	40744.597656	197.469141			6
Height Summation:			370866.904298				
Amount Avg CF:			190.960685	Linear:			
Aroclor-1221					3	38.77	
3.89	3.92	3.95	7771.23584	59.991013			1
E 3.98	4.00	4.04	9674.386719	92.189696			2
E 4.05	4.08	4.11	44140.679688	133.67457			3
Height Summation:			61586.302247				
Amount Avg CF:			95.285093	Linear:			
Aroclor-1232					6	29.38	
E 4.05	4.08	4.11	44140.679688	136.819415			1
E 4.35	4.37	4.41	72594.710938	346.580306			2
E 4.52	4.54	4.58	56324.128906	355.446983			3
E 4.74	4.77	4.80	126478.49218	370.975383			4
E 4.99	5.01	5.05	30584.294922	380.827978			5
E 5.28	5.30	5.34	40744.597656	401.226959			6
Height Summation:			370866.904298				
Amount Avg CF:			331.979504	Linear:			
Aroclor-1242					6	3.82	
E 4.05	4.08	4.11	44140.679688	222.427209			1
E 4.35	4.37	4.41	72594.710938	217.786311			2
E 4.52	4.54	4.58	56324.128906	237.354104			3
E 4.74	4.77	4.80	126478.49218	236.022379			4
E 4.98	5.01	5.04	30584.294922	218.37346			5
E 5.28	5.30	5.34	40744.597656	229.553495			6
Height Summation:			370866.904298				
Amount Avg CF:			226.919493	Linear:			
Aroclor-1248					6	49.57	
E 4.74	4.77	4.80	126478.49218	394.720064			1
4.98	5.01	5.05	30584.294922	161.751831			2
5.14	5.17	5.20	45555.332031	162.879341			3
5.28	5.30	5.34	40744.597656	177.339793			4
E 5.96	6.00	6.02	66557.648438	352.91199			5
6.17	6.22	6.23	19048.431641	127.378814			6
Height Summation:			328968.796876				
Amount Avg CF:			229.496972	Linear:			
Aroclor-1254					6	76.40	
5.46	5.49	5.52	56179.175781	105.280274			1
5.96	6.00	6.02	66557.648438	100.947705			2
E 6.08	6.10	6.14	98886.195313	310.73774			3
6.17	6.22	6.23	19048.431641	42.511343			4
E 6.39	6.41	6.45	111120.10937	400.052236			5
6.55	6.57	6.61	73834.375	139.166511			6
+ 6.55	6.60	6.61	35887.601563	67.642643			6
Height Summation:			425625.935548				
Amount Avg CF:			183.115968	Linear:			

Lancaster Laboratories Multiple Component Peak Data Report

Sample Name: **LCSA** 7/18/12ACF LCS24199 Sample ID: AB **Batchnumber: 121990024A**
Sample Amount: 30 g Total Volume: 10 ml Analyst: 2855 SDG: State:
Analyses: 10736

Analysis Report (A)

Injected on : JUL 20, 2012 04:28:08
Instrument : CP 7--H5088A
Result file : 9p7190.025.RAW
Calibration file : 1p7190.CAL
Method file : PESTDI7.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	1.95	
6.29	6.31	6.35	153294.8125	156.220924			1
6.52	6.55	6.58	183109.29687	155.64126			2
6.77	6.79	6.83	195467	157.963854			3
7.04	7.06	7.10	124470.6875	160.485287			4
7.35	7.37	7.41	279492.78125	163.870928			5
7.65	7.68	7.71	138699.125	157.272255			6
Height Summation:			**1074533.703125**				
Amount Avg CF:			**158.575751**	Linear:			
Aroclor-1262					6	39.93	
E 6.52	6.55	6.58	183109.29687	223.875996			1
E 6.84	6.86	6.90	76152.664063	81.818602			2
E 7.04	7.06	7.10	124470.6875	136.629332			3
E 7.35	7.37	7.41	279492.78125	132.505935			4
E 7.65	7.68	7.71	138699.125	117.704223			5
E 8.42	8.45	8.48	69858.789063	84.768253			6
Height Summation:			**871783.343751**				
Amount Avg CF:			**129.55039**	Linear:			
Aroclor-1268					6	113.50	
7.65	7.68	7.71	138699.125	58.067486			1
7.74	7.76	7.80	37921.453125	18.451242			2
7.97	7.99	8.03	7228.46582	3.359835			3
8.08	8.10	8.14	2482.499023	4.627168			4
E 8.43	8.45	8.49	69858.789063	72.600549			5
8.87	8.89	8.93	27655.884766	4.600206			6
Height Summation:			**283846.216797**				
Amount Avg CF:			**26.951081**	Linear:			

Analysis Report (B)

Injected on : JUL 20, 2012 04:28:08
Instrument : CP 7--H5088B
Result file : 9p7190B.025.RAW
Calibration file : 1P7190b.CAL
Method file : PESTDI7B.MET

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1260					6	3.73	
6.25	6.28	6.31	117859.78125	184.10962			1
6.39	6.41	6.45	111120.10937	193.64646			2
6.55	6.57	6.61	73834.375	~~194.997539~~			3
+ 6.55	6.60	6.61	35887.601563	~~94.77802~~			3
6.76	6.78	6.82	13209.405273	205.934891			4
7.04	7.07	7.10	192716.32812	190.240613			5
7.39	7.41	7.45	137094.09375	191.489742			6
Height Summation:			~~645834.092773~~				
Amount Avg CF:			**193.401644**	Linear:			
Aroclor-1262					6	40.56	
E 6.39	6.41	6.45	111120.10937	233.772201			1
E 6.58	6.60	6.64	35887.601563	70.328545			2
E 6.81	6.84	6.87	80024.4375	127.365591			3
E 7.04	7.07	7.10	192716.32812	148.874902			4
E 7.39	7.41	7.45	137094.09375	145.662702			5
E 7.97	7.99	8.03	54424.105469	99.05738			6
Height Summation:			**611266.675782**				
Amount Avg CF:			**137.51022**	Linear:			
Aroclor-1268					5	103.28	
7.32	7.34	7.38	39986.992188	26.107901			1
E 7.39	7.41	7.45	137094.09375	95.464771			2
7.61	7.63	7.67	4736.225098	3.275364			3
E 7.97	7.99	8.03	54424.105469	86.848594			5
8.34	8.37	8.40	19286.699219	4.789608			6
Height Summation:			**255528.115724**				
Amount Avg CF:			**43.297248**	Linear:			

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	MDL	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			17	3.6		19.22	4	40	
Aroclor-1221			17	4.6	E	14.79	3	40	
Aroclor-1232			17	8	E	15.66	4	40	
Aroclor-1242			17	3.3	E	13.58	4	40	
Aroclor-1248			17	3.3	E	** 42.86	4	40	
Aroclor-1254			17	3.3	E	35.01	4	40	
Aroclor-1260			17	4.9		19.79	4	40	
Aroclor-1262			17	3.3	E	5.96	4	40	
Aroclor-1268			17	3.3	E	** 46.54	4	40	
Total PCBs			17	3.3					

Units: ug/kg

LANCASTER LABORATORIES

Sample Number: LCSA 7/18/12ACF ABLCS24199 LCS 121990024A 10736 Injection Volume: 1 uSW-846 8082
Injected On: 7/20/2012 4:28:08 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, 250c to 300c @20c/min, 300c for 4 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: 9p7190.025.RAW
Method File: PESTDI7.MET
Calibration File: 1p7190.CAL

RT A	Compound A	Height A	Area A
1.6		2118	6569
1.774		1951	11379
2.048		221	569
2.171		913	3174
2.552		317	700
2.809		5785	15547
2.925		1515	2633
3.008		1685	2648
3.129		1614	2972
3.276		306	660
3.359		1771	4209
3.503		328	629
3.595		806	3560
3.854	TCX	283411	611343
4.056		18640	38134
4.135		23024	40314
4.202		97518	216956
4.334		12813	27020
4.502		39723	45483
4.521		27004	33116
4.62		3708	3653
4.666		111041	245115
4.769		1979	2418
4.822		7016	9289
4.838		9402	11502
4.92		227944	500458
4.973		80973	133853
5.057		96608	188325
5.148		46651	59076
5.189		52201	160679
5.32		84413	220446
5.39		13086	12868
5.44		71592	128150
5.49		11429	15801
5.604		2239	2574
5.65		91041	356972
5.792		7534	10557
5.847		82320	221635
6.024		2994	5178
6.106		31743	68070
6.162		31819	49602
6.222		73212	211423
6.31		153295	372935
6.417		18567	33295
6.486		24726	41176
6.548		183109	600041
6.654		69355	150450
6.748		8162	9019
6.79		195467	431672
6.863		76153	116315
6.913		43533	71935
7.061		124471	306363
7.134		40120	62831

ASX73 1925

RT A	Compound A	Height A	Area A
7.182		18088	27318
7.295		36634	70332
7.371		279493	844071
7.677		138699	284382
7.758		37921	97679
7.987		7228	17837
8.097		2482	3775
8.142		26838	65344
8.447		69859	193928
8.537		1620	2800
8.889		27656	85587
9.25	DCB	153456	589303

ASX73 1926

LANCASTER LABORATORIES

Sample Number: LCSA 7/18/12ACF ABLCS24199 LCS 121990024A 10736 Injection Volume: 1 ul SW-846 8082
Injected On: 7/20/2012 4:28:08 AM Analyst: 2855
Instrument ID: CP7-5088A
Oven Parameters: 140c to 250c @ 25c/min, to 300c @ 20c/min, hold 4 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: 9p7190B.025.RAW
Method File: PESTDI7B.MET
Calibration File: 1P7190b.CAL

RT B	Compound B	Height B	Area A
1.599		54572	592093
2.73		1266	3127
2.893		245	586
3.263		467	1039
3.425		313	1397
3.694	TCX	116562	243523
3.917		7771	16289
4.002		9674	18754
4.077		44141	93412
4.236		5884	13237
4.374		72595	205104
4.543		56324	127105
4.674		16874	48175
4.765		126479	241403
4.819		38442	65493
4.93		42088	55537
4.973		17560	19326
5.008		30584	68895
5.168		45555	92032
5.226		6036	7570
5.3		40745	78020
5.361		9343	14044
5.487		56179	141055
5.624		40066	75684
5.828		1811	3370
5.905		7956	13266
5.997		66558	231454
6.103		98886	191661
6.223		19048	32549
6.276		117860	234420
6.411		111120	201686
6.478		4906	5330
6.524		19682	24509
6.571		73834	88498
6.601		35888	40853
6.652		27517	38259
6.782		13209	23192
6.839		80024	165710
6.928		32629	46382
6.969		5459	5246
6.993		5384	7133
7.065		192716	395924
7.162		3113	4381
7.344		39987	68241
7.409		137094	303813
7.634		4736	9093
7.7		2031	2880
7.823		22952	53623
7.994		54424	145697
8.368		19287	50060
8.705	DCB	112423	312009
10.588		443	10483

ASX73 1927

LCSA 7/18/12ACF ABLCS24199 LCS 121990024A 10736 SW-846 8082

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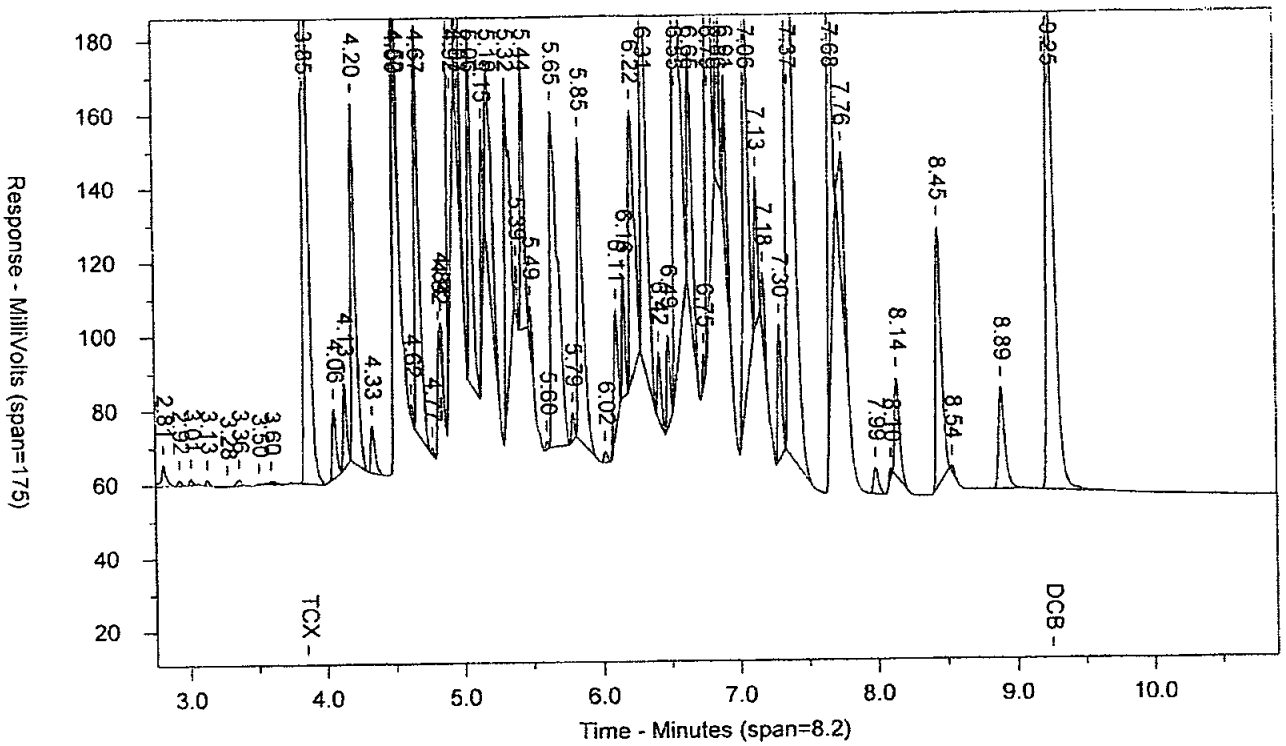

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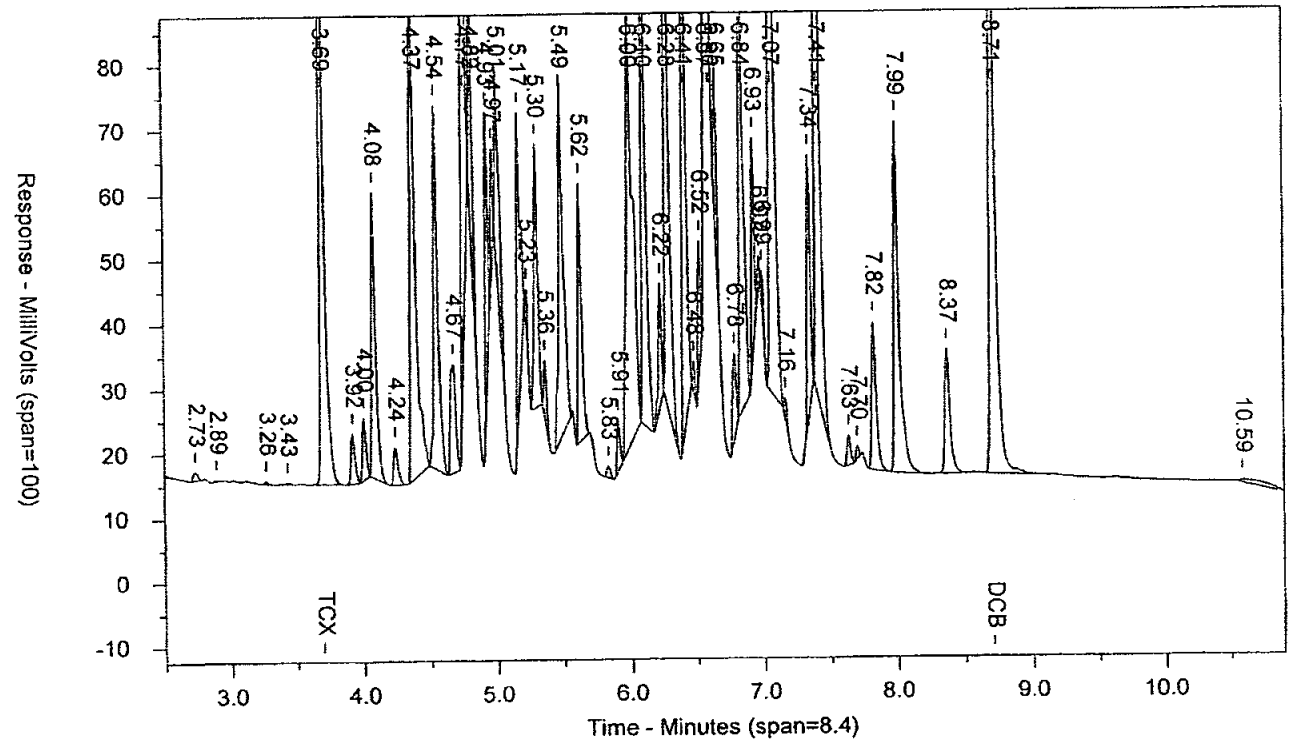

ASX73 1928

LANCASTER LABORATORIES

Sample Number: LCSA , 7/18/12ACF ABLCS24199 LCS 121990024A 10736 Sample Weight: 30 SW-846 8082
Injected On: 7/20/2012 4:28:08 AM Dilution Factor: 10
Instrument ID: CP7-5088A
Oven Parameters: 140c to 300 @ 10c/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: 3
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
3.854	283411	8.842	TCX	3.694	116562	10.549	TCX
9.25	153456	9.069	DCB	8.705	112423	9.884	DCB

Files:
Area File: 9p7190.025.RAW
Area File: 9p7190B.025.RAW
Method A: PESTDI7.MET
Method B: PESTDI7B.MET
Calibration File A: 1p7190.CAL
Calibration File B: 1P7190b.CAL
Format A: pestD7.FMTA
Format B: pestD7.FMTB
Area File Created On: 7/20/2012 4:38:44 AM
File Reported On: 7/20/2012 at 4:39:08 AM

ASX73 1959

LCSA 7/18/12ACF ABLCS24199 LCS 121990024A 10736 SW-846 8082

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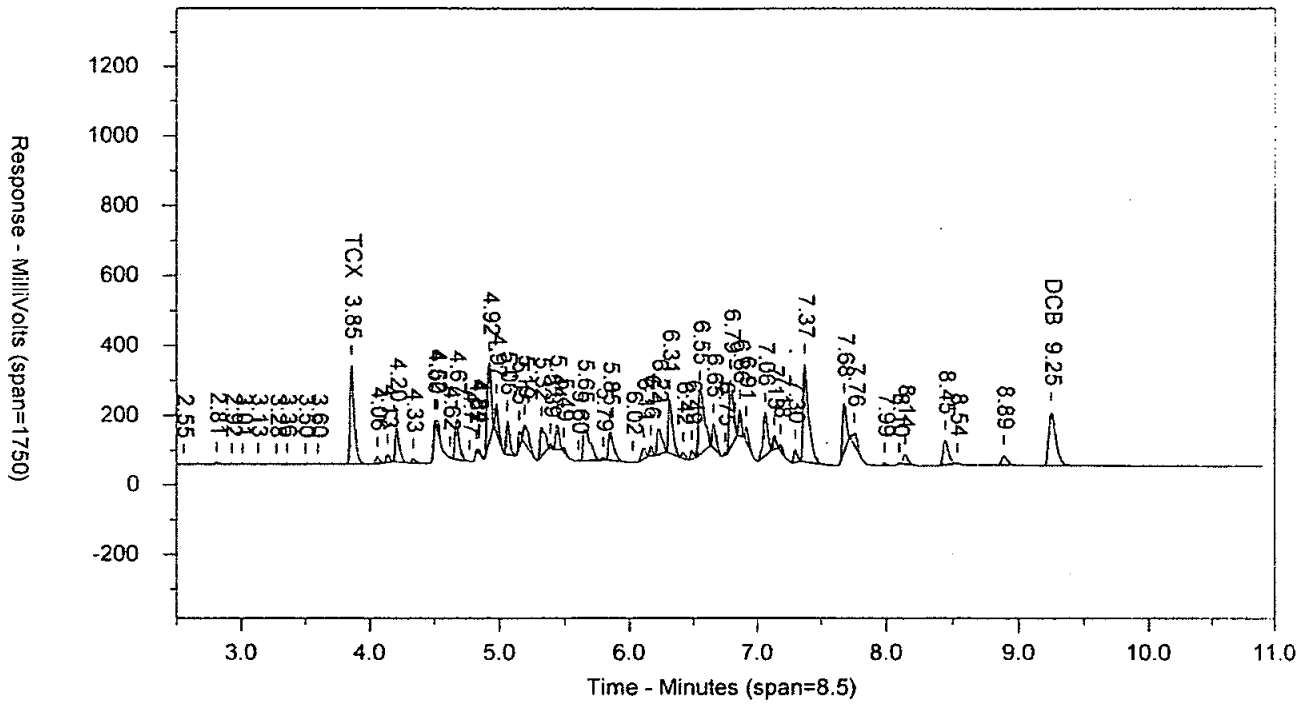

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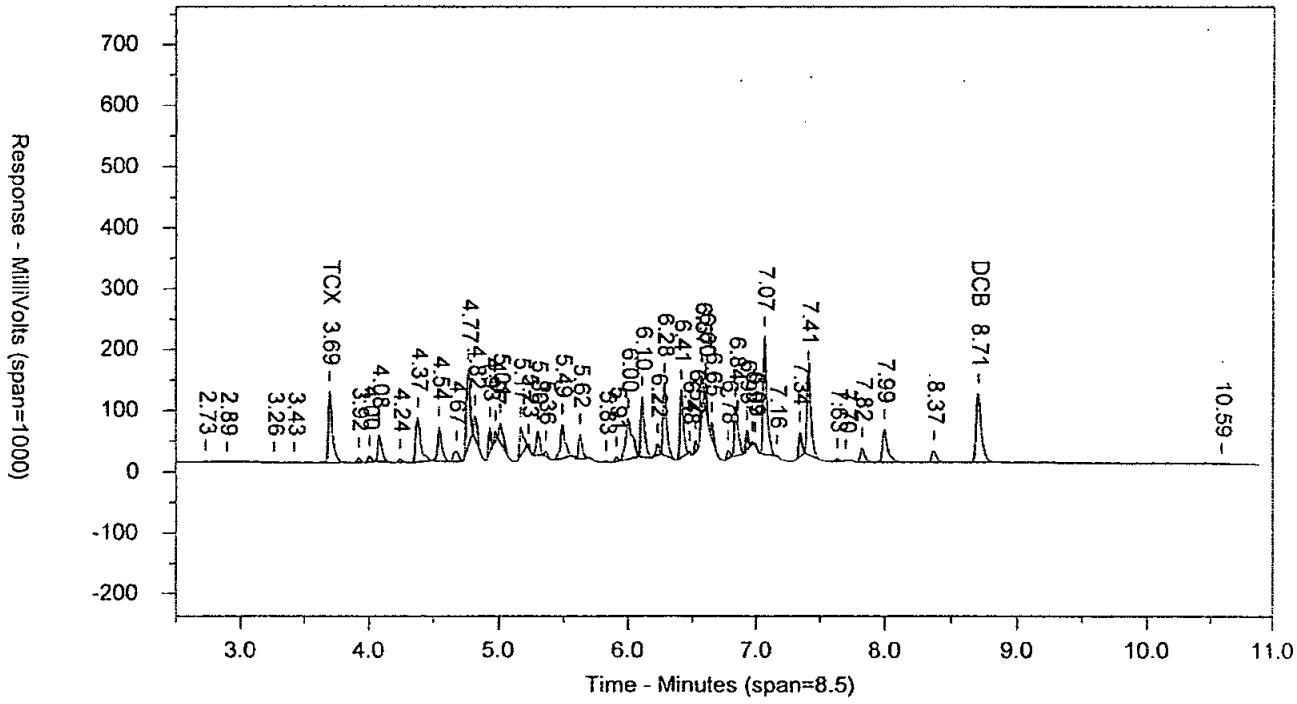

Extraction/Distillation/Digestion Logs

ASX73 1931

Organic Extraction Batchlog Assigned to: 701 Karen Beyer

Reviewed by: [illegible] Start Date: 7/17/12 Start time: 21:30

121990013A

Tech 1: [illegible] Tech 2:

Dept: 24 Prep Analysis: 11117 PCB Waters Extraction PCBs in Water

QC	Sample Code	Amt (gr)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANKA	PBLK13199	1000	SS1218124A	1.0			10	6	NA	NA	DI water
LCSA	LCS13199	1000	SS1218124A	1.0	~~MS1214524A~~	1.0	10	6	NA	NA	DI water
LCSDA	LCSD13199	1000	SS1218124A	1.0	~~MS1214524A~~	1.0	10	6	NA	NA	DI water

Solvent Used	Lot No.
Hexane	L08E07
Methylene Chloride	L1E02
Sodium Sulfate	12199A

Spike Solutions: Witness: NA

~~MS1214524A~~ MS 12181248 PCB SPIKE

SS1218124A SW846 SURROGATE STANDARD

Sample #	Sample Code	Amt (gr)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1 6721504	EB713	926	SS1218124A	1.0	10	7	NA	NA	Clear	10227	07/26/2012	N

7/17/12

Rack ID:		Work Station	Bench 4
Internal Standard		Balance #	10661

DF = Dilution Factor FV = Final Volume

Page 1 of 1

S-bath ID	95.1 C	S-bath ID	C	N-Evap	C	M-vap	C	121990013A

Documented temps are NIST corrected.

2GGT 2XSU

Prep-Process Worksheet

Acid

Prep: 11117 PCB Waters Extraction

Batch No: 121990013A

Verified: [illegible]
Start Date: 7/19/12
Start Time: 05:45
Tech 1: [illegible]
Tech 2:

Sample #		QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	6721504		15	15				10227
2	BLANKA		15	15				
3	LCSA		15	15				
4	LCSDA		15	15				

[illegible]
7/18/12

Additional Comment:

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
H_2SO_4	12/126		

ASX73 1933

Prep-Process Worksheet

Florisil
Prep: 11117 PCB Waters Extraction
Batch: 121990013A

Verified: NATBN
Start Date: 7/18/12
Start Time: 0615
Tech 1: KJ
Tech 2: —

Sample #		QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	6721504		2	2				10227
2	BLANKA		2	2				
3	LCSA		2	2				
4	LCSDA		2	2				

KJ
7/18/12

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
—		—	
—		—	
—		—	
Florisil	1/6/80-BV	—	

S-Evap/bath	— C	S-Evap/bath	— C	N-Evap	— C

The documented temperatures are NIST corrected.

ASX73 1934

Organic Extraction Batchlog Assigned to: 2804 Katheryne Sponheimer

Reviewed by: [illegible] Start Date: 7/18/12 Start time: 7:15

121990024A

Tech 1: 282804 Tech 2:

Dept: 24	Prep Analysis: 10497 PCB Microwave Soil Extraction										PCBs in Soil (microwave)
QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6721494MSD	49--0MSD	30.0	SS1218124A	1	MS1214524A	1	10	Z	Z	34A	Brown soil w/ Rocks
6721494MS	49--0MS	30.0	SS1218124A	1	MS1214524A	1	10	Z	Z	34A	↓
BLANKA	PBLK24199	30	SS1218124A	1			10	Z	Z		Na2SO4
LCSA	LCS24199	30	SS1218124A	1	MS1214524A	1	10	Z	Z		↓

Solvent Used	Lot No.
1:1 Methylene Chloride/Acetone	185071312A
Hexane	L08E07
Sodium Sulfate	12199A

11 S1218124B

Spike Solutions: Witness:
~~MS1214524A~~ 282804 7/18/12 PCB SPIKE
SS1218124A SW846 SURROGATE STANDARD

	Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
200	1 6721494	49--0	30.3	SS1218124A	1	10	Z	Z	34A	Brown Soil w/ Rocks	10736	07/26/2012	N
200	2 6721495	49--2	30.4	SS1218124A	1	10	Z	Z	34A		10736	07/26/2012	N
10	3 6721496 DF 25	49--4	30.5	SS1218124A	1	10	Z	Z	34A		10736	07/26/2012	N
50	4 6721499 DF 2000	32--0	30.3	SS1218124A	1	10	Z	Z	34A		10736	07/26/2012	N
20	5 6721500	32--2	30.4	SS1218124A	1	10	Z	Z	34A		10736	07/26/2012	N
1	6 6721501	32--4	30.4	SS1218124A	1	10	Z	Z	34A		10736	07/26/2012	N

282804
7/18/12

Rack ID:		Work Station	Micro 168&6
Internal Standard		Balance #	17609

S-bath ID 6	98 C	S-bath ID	C	N-Evap	C	M-vap	C	121990024A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Prep-Process Worksheet

Florisil
Prep: 10497 PCB Microwave Soil Extraction
Batch: 121990024A

Verified: _____

Start Date: 7/18/12

Start Time: 11:30

Tech 1: 452804

Tech 2: _____

	Sample #	QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	6721494		2	2				10736
2	6721494	MS	2	2				10736
3	6721494	MSD	2	2				10736
4	6721495		2	2				10736
5	6721496		2	2				10736
6	6721499		2	2				10736
7	6721500		2	2				10736
8	6721501		2	2				10736
9	BLANKA		2	2				
10	LCSA		2	2				

452804
7/18/12

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		Florisil	011180-BV

S-Evap/bath	C	S-Evap/bath	C	N-Evap	C

The documented temperatures are NIST corrected.

ASX73 1936

Prep-Process Worksheet

Copper

Prep: 10497 PCB Microwave Soil Extraction

Batch No: 121990024A

Verified: _____

Start Date: 7/18/12

Start Time: 11:40

Tech 1: K82804

Tech 2: _____

Sample #		QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	6721494		2	2				10736
2	6721494	MS	2	2				10736
3	6721494	MSD	2	2				10736
4	6721495		2	2				10736
5	6721496		2	2				10736
6	6721499		2	2				10736
7	6721500		2	2				10736
8	6721501		2	2				10736
9	BLANKA		2	2				
10	LCSA		2	2				

K82804
7/18/12

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		copper	119350-AV

ASX73 1937

Prep-Process Worksheet

Acid
Prep: 10497 PCB Microwave Soil Extraction
Batch No: 121990024A

Verified: _____

Start Date: 7/18/12

Start Time: 10:45

Tech 1: 482804

Tech 2: _____

Sample #		QC	Aliquot (mL)	Final Volume (mL)	D.F. Aliq	D.F. F.V.	Comments	Analyses
1	6721494		10	10				10736
2	6721494	MS	10	10				10736
3	6721494	MSD	10	10				10736
4	6721495		10	10				10736
5	6721496		10	10				10736
6	6721499		10	10				10736
7	6721500		10	10				10736
8	6721501		10	10				10736
9	BLANKA		10	10				
10	LCSA		10	10				

482804
7/18/12

Additional Comment: _____

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
		H_2SO_4	121126

ASX73 1938

TPH-DRO by GC Data

Case Narrative/Conformance Summary

ASX73 1941

eurofins | Lancaster Laboratories

Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

EPH/Miscellaneous GC

Fraction: TPH-DRO by GC

TPH-DRO soil C10-C28 microwave

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
6721497	SB-49(0-2)		X	10	
6721503	SB-32(0.0-2.0)		X	1	
6721504	EB-07132012	X		1	Equipment Blank

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:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

All QC is within specification.

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

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

EPH/Miscellaneous GC

Fraction: TPH-DRO by GC

LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 7-27-2012 by Audrey K. McClune
(Date)
Audrey K. McClune
Specialist

Quality Control and Calibration Summary Forms

ASX73 1944

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Quality Control Reference List
EPH/Miscellaneous GC

CLIENT: Stantec
SDG: ASX73

Fraction: TPH-DRO by GC

Analysis	Batch Number	Sample Number	Analysis Date
TPH-DRO soil C10-C28 microwave	122000026A	PBLK26200	07/26/2012 01:55:00
		LCS26200	07/26/2012 02:16:00
		6721497 UNSPK/BKG	07/26/2012 10:30:00
		6721497 DUP	07/26/2012 10:51:00
		6721497 MS	07/26/2012 11:12:00
		6721503	07/26/2012 04:02:00
TPH-DRO water C10-C28	121990015A	PBLK15199	07/20/2012 06:27:00
		LCS15199	07/20/2012 06:50:00
		LCSD15199	07/20/2012 07:13:00
		6721504	07/20/2012 08:21:00

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Quality Control Summary
Method Blank
EPH/Miscellaneous GC
SDG: ASX73
Matrix: SOLID

Fraction: TPH-DRO by GC

122000026A / PBLK26200 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
TPH-DRO soil C10-C28 microwave	07/26/12	N.D.	mg/kg	4.0	12

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Quality Control Summary
Method Blank
EPH/Miscellaneous GC
SDG: ASX73
Matrix: LIQUID

Fraction: TPH-DRO by GC

121990015A / PBLK15199 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
TPH-DRO water C10-C28	07/20/12	N.D.	ug/l	50	100

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Quality Control Summary
Surrogates
EPH/Miscellaneous GC
SDG: ASX73
Matrix: SOLID

Fraction: TPH-DRO by GC

122000026A	Orthoterphenyl	
	Spike Added	2 mg/kg
Sample	% Recovery	Limits
PBLK26200	97	50 - 131
LCS26200	98	50 - 131
6721497 MS	95	50 - 131
6721497	90	50 - 131
6721497 DUP	89	50 - 131
6721503	99	50 - 131

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Quality Control Summary
Surrogates
EPH/Miscellaneous GC
SDG: ASX73
Matrix: LIQUID

Fraction: TPH-DRO by GC

121990015A	Orthoterphenyl	
	Spike Added	24 ug/l
Sample	% Recovery	Limits
PBLK15199	91	50 - 154
LCS15199	106	50 - 154
LCSD15199	103	50 - 154
6721504	92	50 - 154

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Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: ASX73
Matrix: SOLID

EPH/Miscellaneous GC
Fraction: TPH-DRO by GC

UNSPK: 6721497 MS: 6721497	Batch: **122000026A** (Sample number(s): 6721497, 6721503)								
Analyte	**Spike Added mg/kg**	**Unspiked Conc mg/kg**	**MS Conc mg/kg**	**MSD Conc mg/kg**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
TPH-DRO soil C10-C28 microwave	133	189.32	231.03		31		30-159		

Results are being reported on an as received basis.

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

SDG: ASX73
Matrix: SOLID

EPH/Miscellaneous GC
Fraction: TPH-DRO by GC

LCS: LCS26200	Batch: **122000026A** (Sample number(s): 6721497, 6721503)							
Analyte	**Spike Added mg/kg**	**LCS Conc mg/kg**	**LCSD Conc mg/kg**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
TPH-DRO soil C10-C28 microwave	133	113.5		85		76-117		

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

SDG: ASX73
Matrix: LIQUID

EPH/Miscellaneous GC
Fraction: TPH-DRO by GC

LCS: LCS15199 LCSD: LCSD15199 **Analyte**	Batch: **121990015A** (Sample number(s): 6721504)							
	Spike Added ug/l	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
TPH-DRO water C10-C28	1600	1500	1500	94	94	56-122	0	20

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 18847A Calibration File: 2FULH193A

GC Column (1) : HP5 ID: 30 (mm) Update File:

Date(s) Analyzed: 7/11/2012 7/11/2012

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Capric Acid	6.49	6.51	6.56	6.59	6.61	6.56	6.46	6.66
o-Terphenyl	10.34	10.34	10.34	10.34	10.34	10.34	10.24	10.44

FORM VI-1

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 18847A Calibration File: 2FULH193A

GC Column (1) : HP5 ID: 30 (mm) Date(s) Analyzed: 7/11/2012 7/11/2012

COMPOUND	CALIBRATION FACTORS						
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	%RSD
Capric Acid	2.77E+04	2.34E+04	2.59E+04	2.64E+04	2.53E+04	2.57E+04	6.0
o-Terphenyl	4.56E+04	4.16E+04	4.70E+04	4.40E+04	4.68E+04	4.50E+04	5.0

Average % RSD: 5.5

FORM VI-2

ASX73 1954

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 18847A Calibration File: 2FULH193A

GC Column (1) : HP5 ID: 30 (mm) Date(s) Analyzed: 7/11/2012 7/11/2012

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK AREA	%RSD
Total DRO	1		2.87	13.66	41158	39320	1	50	2057892	3.4
					37424		2	200	7484876	
					38999		3	1000	38999248	
					39831		4	2500	99576576	
					39186		5	5000	195932304	

FORM VI-3

ASX73 1955

File Name: Y:\CP18\2FULH193A.CAL
Version: 10

Creator: GSR 1449
Description: DRO RT UPDATE
Reason for change:

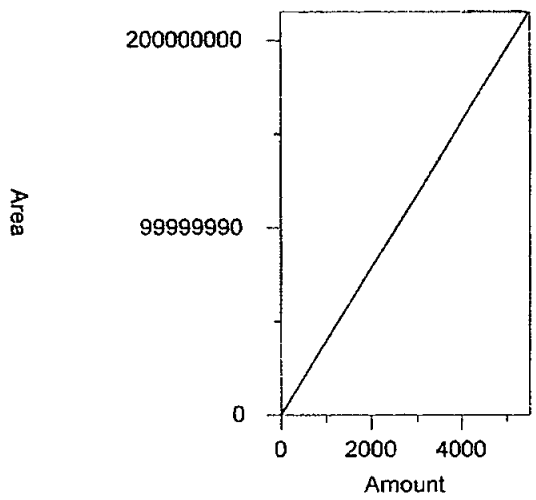
Used D18193.0005.RAW - 19.RAW
MOL - D18193.0021.RAW
ICV - D18193.0068.RAW
C10 & C28 KT & split markers only
copied O-TERP & capric acid from 20XH193A ICAL

External standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units: PPM
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 Total DRO



Expected retention time: 0.001 minutes
Search window: 0 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 39319.71

Single peak quantification by area

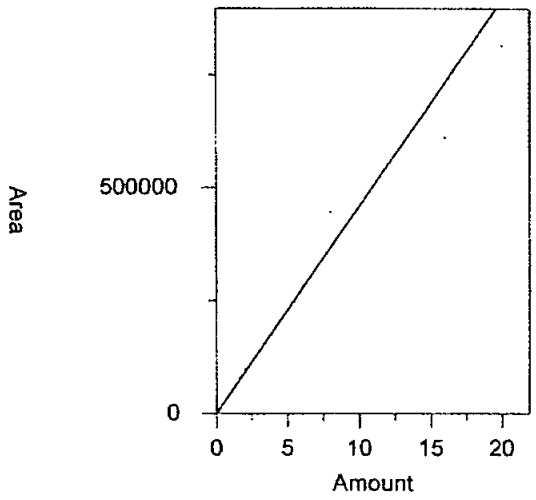
Y = 39319.71 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9999111
Average error: 2.390%
Average CF: 39319.71
RSD: 3.448%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	50	2057892	41157.84	4.675	Manual	7/12/2012 9:31:02 AM
2	200	7484876	37424.38	-4.820	Manual	7/12/2012 9:31:14 AM
3	1000	3.899925E+07	38999.25	-0.815	Manual	7/12/2012 9:31:24 AM
4	2500	9.957658E+07	39830.63	1.299	Manual	7/12/2012 9:31:34 AM
5	5000	1.959323E+08	39186.46	-0.339	Manual	7/12/2012 9:42:15 AM

2 C10

ASX73 1956



Expected retention time: 2.973 minutes
Search window: 0.1 minutes
No retention time reference component
No response proxy component
Group number: 0

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

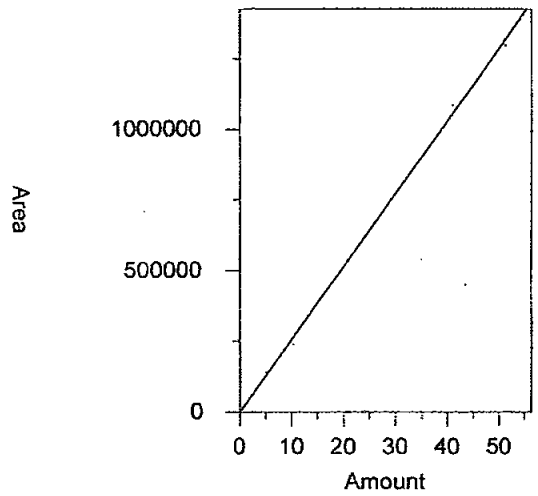
Single peak quantification by area

Y = 45819.68 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.912137
Average error: 11.696%
Average CF: 45819.68
RSD: 15.206%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	(98519.46)	49259.73	7.508	\\Uslan-chromperf\Active-data\CP18\1D18023.0013.BND	1/24/2012 3:58:43 PM
2	4	(180059.8)	45014.95	-1.756	\\Uslan-chromperf\Active-data\CP18\1D18023.0014.BND	1/24/2012 3:58:49 PM
3	8	(446216.5)	55777.06	21.732	\\Uslan-chromperf\Active-data\CP18\1D18023.0015.BND	1/24/2012 3:58:55 PM
4	16	(611979.8)	38248.74	-16.523	\\Uslan-chromperf\Active-data\CP18\1D18023.0016.BND	1/24/2012 3:59:02 PM
5	20	(815958.1)	40797.91	-10.960	\\Uslan-chromperf\Active-data\CP18\1D18023.0017.BND	1/24/2012 3:59:07 PM

3 Capric Acid



Expected retention time: 6.56 minutes
Search window: 0.1 minutes
No retention time reference component
No response proxy component
Group number: 0

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

Single peak quantification by area

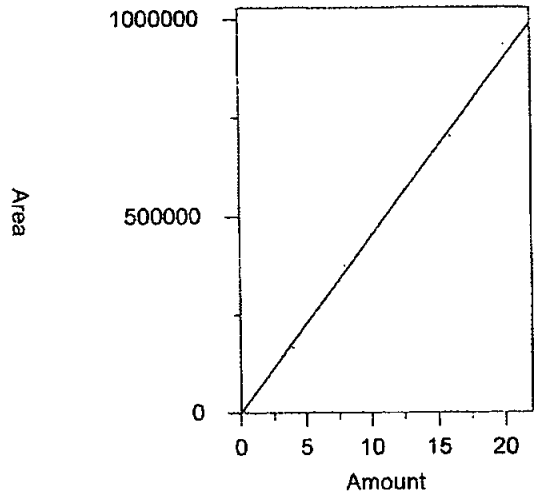
Y = 25745.33 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9981157
Average error: 4.248%
Average CF: 25745.33
RSD: 6.043%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	5.127	141805.1	27658.49	7.431	Manual	7/12/2012 8:00:21 AM
2	10.253	240251.7	23432.33	-8.984	Manual	7/12/2012 8:03:28 AM
3	25.633	663280.7	25876.05	0.508	Manual	7/12/2012 8:03:45 AM
4	41.013	1084213	26435.84	2.682	Manual	7/12/2012 8:04:08 AM
5	51.266	1298257	25323.94	-1.637	Manual	7/12/2012 8:28:07 AM

4 O-terphenyl

ASX73 1957



Expected retention time: 10.341 minutes
Search window: 0.1 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 44992.23

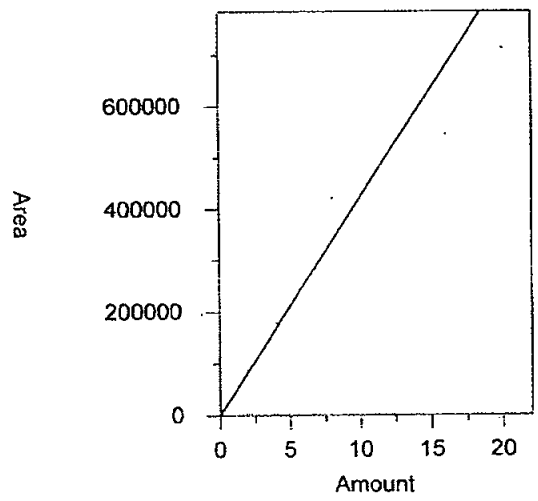
Single peak quantification by area

Y = 44992.23 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.996085
Average error: 3.936%
Average CF: 44992.23
RSD: 4.989%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	91284.7	45642.35	1.445	\\USLAN-CHROMPERF\ACTIVE-DATA\CP18\D18193.0010.BND	7/12/2012 8:31:48 AM
2	4	166394.8	41598.7	-7.542	Manual	7/12/2012 8:34:48 AM
3	8	375684.3	46960.54	4.375	Manual	7/12/2012 8:35:17 AM
4	16	703338.4	43958.65	-2.297	Manual	7/12/2012 8:35:43 AM
5	20	936017.9	46800.89	4.020	\\USLAN-CHROMPERF\ACTIVE-DATA\CP18\D18193.0014.BND	7/12/2012 8:32:12 AM

5 C28



Expected retention time: 13.556 minutes
Search window: 0.1 minutes
No retention time reference component
No response proxy component
Group number: 0

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

Single peak quantification by area

Y = 42325.88 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.8388742
Average error: 14.153%
Average CF: 42325.88
RSD: 17.995%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	2	(88525.52)	44262.76	4.576	\\Uslan-chromperf\Active-data\CP18\ID18023.0013.BND	1/24/2012 3:58:43 PM
2	4	(179907.4)	44976.85	6.263	\\Uslan-chromperf\Active-data\CP18\ID18023.0014.BND	1/24/2012 3:58:49 PM
3	8	(421709.5)	52713.69	24.542	\\Uslan-chromperf\Active-data\CP18\ID18023.0015.BND	1/24/2012 3:58:55 PM
4	16	(544917.7)	34057.36	-19.535	\\Uslan-chromperf\Active-data\CP18\ID18023.0016.BND	1/24/2012 3:59:02 PM
5	20	(712375.2)	35618.76	-15.846	\\Uslan-chromperf\Active-data\CP18\ID18023.0017.BND	1/24/2012 3:59:07 PM

ASX73 1958

6D

INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H6783A
Calibration File: 1FLS180A
GC Column (1) : HP5
ID: 0.53 (mm)
Update File:
Date(s) Analyzed: 6/28/2012 6/28/2012

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Capric Acid	4.20	4.21	4.25	4.28	4.30	4.28 ~~4.24~~	4.08 ~~4.04~~	4.48 ~~4.44~~
o-Terphenyl	8.03	8.03	8.03	8.03	8.03	8.03	7.98	8.08

Database error. [illegible] 7/2/12

FORM VI-1

ASX73 1959

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H6783A
Calibration File: 1FLS180A
GC Column (1) : HP5
ID: 0.53 (mm)
Date(s) Analyzed: 6/28/2012 6/28/2012

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Capric Acid	5.60E+03	6.27E+03	9.27E+03	1.04E+04	1.17E+04	8.65E+03	30.4
o-Terphenyl	1.93E+04	2.00E+04	2.01E+04	1.94E+04	1.94E+04	1.96E+04	1.8

Average % RSD: 16.1

FORM VI-2

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H6783A Calibration File: 1FLS180A

GC Column (1) : HP5 ID: 0.53 (mm) Date(s) Analyzed: 6/28/2012 6/28/2012

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK AREA	%RSD
Total DRO	1		1.22	11.50	21204	18317	1	100	2120395	8.8
					17650		2	400	7060044	
					17538		3	800	14030020	
					17663		4	1600	28261140	
					17529		5	3200	56092648	

A3X73 1961

File Name: Y:\CP21\1FLS180A.CAL
Version: 12

Creator: GSR 1449
Description: DRO (C10-C28) ICAL
Reason for change:

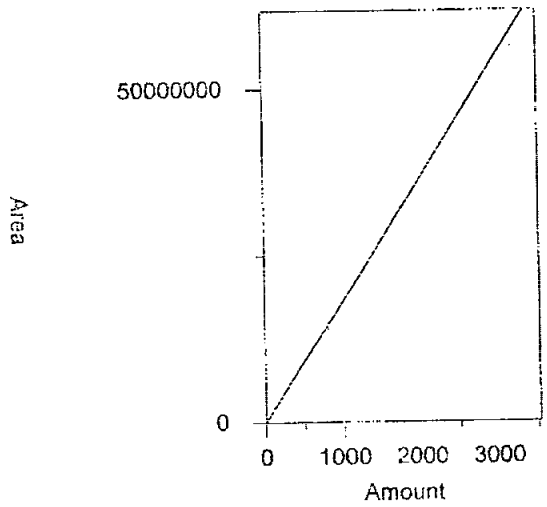
used T21180.16R-30R
MDL-T21180.36R
ICV-T21180.37R
7/5/12
✓ 7-3-12

External standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units: ppm
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 TOTAL DRO



Expected retention time: 0.043 minutes
Search window: 0.05 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 18316.75

Single peak quantification by area

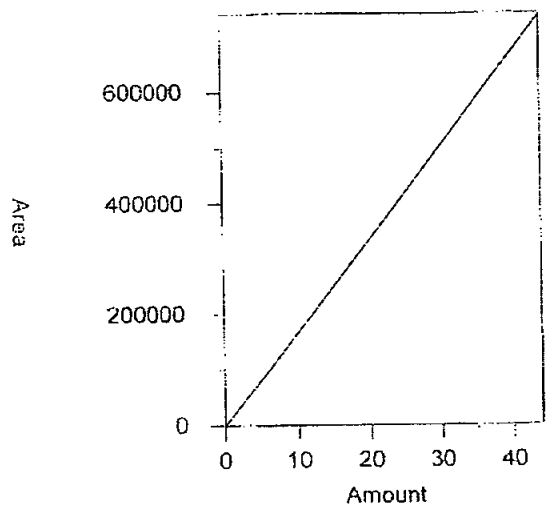
Y = 18316.75 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9957542
Average error: 6.305%
Average CF: 18316.75
RSD: 8.818%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	100	2120395	21203.95	15.763	Manual	7/2/2012 7:01:24 PM
2	400	7060044	17650.11	-3.640	Manual	7/2/2012 7:01:32 PM
3	800	1.403002E+07	17537.53	-4.254	Manual	7/2/2012 7:01:45 PM
4	1600	2.826114E+07	17663.21	-3.568	Manual	7/2/2012 7:02:03 PM
5	3200	5.609265E+07	17528.95	-4.301	Manual	7/2/2012 7:02:20 PM

2 C10

ASX73 1962



Expected retention time: 1.315 minutes
Search window: 0.05 minutes
No retention time reference component
No response proxy component
Group number: 0

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

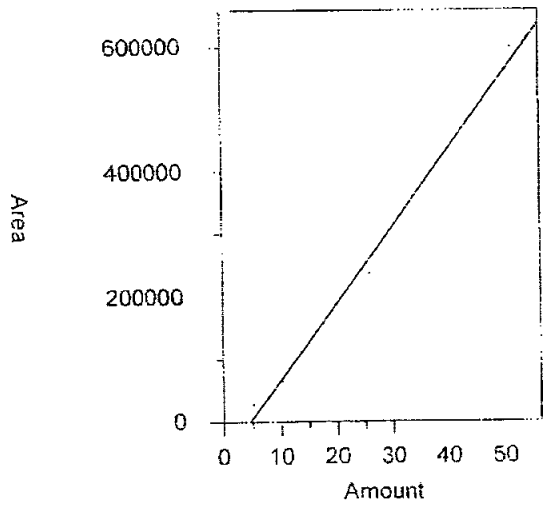
Single peak quantification by area

Y = 16709.02 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9998316
Average error: 0.816%
Average CF: 16709.02
RSD: 0.968%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4	65922	16480.5	-1.368	Manual	7/2/2012 6:53:40 PM
2	8	132773	16596.63	-0.673	Manual	7/2/2012 6:59:20 PM
3	16	268766	16797.88	0.532	Manual	7/2/2012 6:59:48 PM
4	32	538568	16830.25	0.726	Manual	7/2/2012 7:00:14 PM
5	40	673594	16839.85	0.783	Manual	7/2/2012 7:00:46 PM

3 Capric Acid



Expected retention time: 4.238 minutes
Search window: 0.2 minutes
No retention time reference component
No response proxy component
Group number: 0

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

Single peak quantification by area

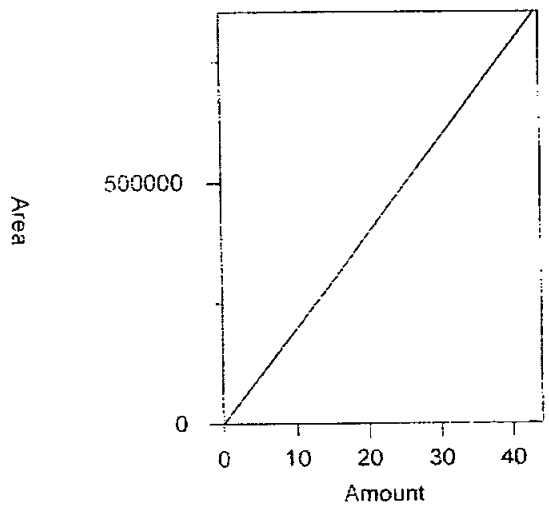
Y = 12260.71 X + -55559.32

Linear fit with equal weighting
Coefficient of determination: 0.9915219
Average error: 63.835%
Average CF: 8646.5
RSD: 30.399%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	5.126574	28724	5602.962	293.688	Manual	7/2/2012 6:54:36 PM
2	10.25315	64250	6266.367	-8.413	Manual	6/28/2012 8:50:15 PM
3	25.63287	237520	9266.228	-8.193	Manual	6/28/2012 8:50:26 PM
4	41.01259	427460	10422.65	-4.432	Manual	6/28/2012 8:50:39 PM
5	51.26574	598491	11674.29	4.450	Manual	6/28/2012 8:50:51 PM

4 O-terphenyl

ASX73 1963



Expected retention time: 8.026 minutes
Search window: 0.05 minutes
No retention time reference component
No response proxy component
Group number: 0

High alarm limit: 0
Low alarm limit: 0
Component constant: 19637.93

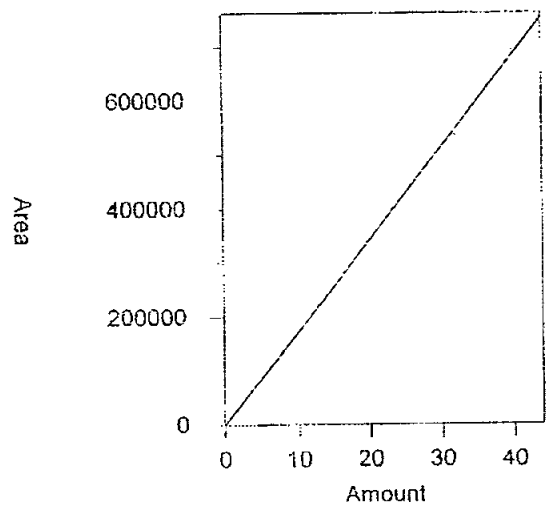
Single peak quantification by area

Y = 19637.93 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9994513
Average error: 1.558%
Average CF: 19637.93
RSD: 1.801%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4	77296	19324	-1.599	Manual	7/2/2012 6:53:50 PM
2	8	159675.8	19959.47	1.637	\\USLAN-CHROMPERF\ACTIVE-DATA\CP21\T21180.0017.BND	6/28/2012 8:10:31 PM
3	16	321298	20081.13	2.257	Manual	7/2/2012 6:59:57 PM
4	32	621704.4	19428.26	-1.068	\\USLAN-CHROMPERF\ACTIVE-DATA\CP21\T21180.0019.BND	6/28/2012 8:10:47 PM
5	40	775872.4	19396.81	-1.228	\\USLAN-CHROMPERF\ACTIVE-DATA\CP21\T21180.0020.BND	6/28/2012 8:10:51 PM

5 C-28



Expected retention time: 11.401 minutes
Search window: 0.05 minutes
No retention time reference component
No response proxy component
Group number: 0

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

Single peak quantification by area

Y = 17128.55 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9991748
Average error: 1.149%
Average CF: 17128.55
RSD: 1.525%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4	68395	17098.75	-0.174	Manual	7/2/2012 6:54:03 PM
2	8	139171	17396.38	1.564	Manual	7/2/2012 6:59:33 PM
3	16	272712.3	17044.52	-0.491	\\USLAN-CHROMPERF\ACTIVE-DATA\CP21\T21180.0018.BND	6/28/2012 8:10:35 PM
4	32	536016.9	16750.53	-2.207	\\USLAN-CHROMPERF\ACTIVE-DATA\CP21\T21180.0019.BND	6/28/2012 8:10:47 PM
5	40	694104	17352.6	1.308	Manual	7/2/2012 7:01:16 PM

ASX73 1964

6D
INITIAL CALIBRATION - RETENTION TIME SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H6783A
Calibration File: 1FLS180B
GC Column (1) : HP5
ID: 0.53 (mm)
Update File: T21205.0005.RAW
Date(s) Analyzed: 7/23/2012 7/23/2012

COMPOUND	RT OF STANDARDS LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MIDPOINT RT	RT WINDOW FROM	TO
Capric Acid						4.24	4.04	4.44
o-Terphenyl			8.00			8.00	7.95	8.05

capric acid
not updated
Tre/7/24 7-24-12

FORM VI-1

6E

INITIAL CALIBRATION - CALIBRATION FACTOR SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H6783A Calibration File: 1FLS180B

GC Column (1) : HP5 ID: 0.53 (mm) Date(s) Analyzed: 7/23/2012 7/23/2012

COMPOUND	CALIBRATION FACTORS						%RSD
	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	MEAN	
Capric Acid	5.60E+03	6.27E+03	9.27E+03	1.04E+04	1.17E+04	8.65E+03	30.4
o-Terphenyl	1.93E+04	2.00E+04	2.01E+04	1.94E+04	1.94E+04	1.96E+04	1.8

Average % RSD: 16.1

FORM VI-2

ASX73 1966

6F

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Lancaster Laboratories Contract:

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

Instrument: H6783A Calibration File: 1FLS180B

GC Column (1) : HP5 ID: 0.53 (mm) Date(s) Analyzed: 7/23/2012 7/23/2012

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	AVERAGE CF	LEVEL	AMOUNT	PEAK AREA	%RSD
Total DRO	1		1.20	11.47	21204	18317	1	100	2120395	8.8
					17650		2	400	7060044	
					17538		3	800	14030020	
					17663		4	1600	28261140	
					17529		5	3200	56092648	

ASX73 1967

File Name: Y:\CP21\1FLS180B.CAL
Version: 2

Creator: GSR 1449
Description: DRO (C10-C28) RT-UPDATE
Reason for change: per TZ1205.0004. RAW

External standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 0
Reference peak area reject threshold: 0
Amount units: ppm
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 TOTAL DRO
Expected retention time: 0.043 minutes
Search window: 0.05 minutes
No retention time reference component
No response proxy component
Group number: 0
High alarm limit: 0
Low alarm limit: 0
Component constant: 18316.75

Single peak quantification by area

Y = 18316.75 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9957542
Average error: 6.305%
Average CF: 18316.75
RSD: 8.818%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	100	2120395	21203.95	15.763	Manual	7/2/2012 7:01:24 PM
2	400	7060044	17650.11	-3.640	Manual	7/2/2012 7:01:32 PM
3	800	1.403002E+07	17537.53	-4.254	Manual	7/2/2012 7:01:45 PM
4	1600	2.826114E+07	17663.21	-3.568	Manual	7/2/2012 7:02:03 PM
5	3200	5.609265E+07	17528.95	-4.301	Manual	7/2/2012 7:02:20 PM

2 C10
Expected retention time: 1.3 minutes
Search window: 0.05 minutes
No retention time reference component
No response proxy component
Group number: 0
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

ASX78 1968

Single peak quantification by area

Y = 16709.02 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9998316
Average error: 0.816%
Average CF: 16709.02
RSD: 0.968%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4	65922	16480.5	-1.368	Manual	7/2/2012 6:53:40 PM
2	8	132773	16596.63	-0.673	Manual	7/2/2012 6:59:20 PM
3	16	268766	16797.88	0.532	Manual	7/2/2012 6:59:48 PM
4	32	538568	16830.25	0.726	Manual	7/2/2012 7:00:14 PM
5	40	673594	16839.85	0.783	Manual	7/2/2012 7:00:46 PM

3 Capric Acid
Expected retention time: 4.238 minutes
Search window: 0.2 minutes
No retention time reference component
No response proxy component
Group number: 0
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

Y = 12260.71 X + -55559.32

Linear fit with equal weighting
Coefficient of determination: 0.9915219
Average error: 63.835%
Average CF: 8646.5
RSD: 30.399%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	5.126574	28724	5602.962	293.688	Manual	7/2/2012 6:54:36 PM
2	10.25315	64250	6266.367	-8.413	Manual	6/28/2012 8:50:15 PM
3	25.63287	237520	9266.228	-8.193	Manual	6/28/2012 8:50:26 PM
4	41.01259	427460	10422.65	-4.432	Manual	6/28/2012 8:50:39 PM
5	51.26574	598491	11674.29	4.450	Manual	6/28/2012 8:50:51 PM

4 O-terphenyl
Expected retention time: 8 minutes
Search window: 0.05 minutes
No retention time reference component
No response proxy component
Group number: 0
High alarm limit: 0
Low alarm limit: 0
Component constant: 19637.93

Single peak quantification by area

Y = 19637.93 X + 0

ASX73 1969

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9994513
Average error: 1.558%
Average CF: 19637.93
RSD: 1.801%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4	77296	19324	-1.599	Manual	7/2/2012 6:53:50 PM
2	8	159675.8	19959.47	1.637	\\USLAN-CHROMPERF\ACTIVE-DATA\CP21\T21180.0017.BND	6/28/2012 8:10:31 PM
3	16	321298	20081.13	2.257	Manual	7/2/2012 6:59:57 PM
4	32	621704.4	19428.26	-1.068	\\USLAN-CHROMPERF\ACTIVE-DATA\CP21\T21180.0019.BND	6/28/2012 8:10:47 PM
5	40	775872.4	19396.81	-1.228	\\USLAN-CHROMPERF\ACTIVE-DATA\CP21\T21180.0020.BND	6/28/2012 8:10:51 PM

5 C-28
Expected retention time: 11.37 minutes
Search window: 0.05 minutes
No retention time reference component
No response proxy component
Group number: 0
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

$Y = 17128.55\ X + 0$

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9991748
Average error: 1.149%
Average CF: 17128.55
RSD: 1.525%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	4	68395	17098.75	-0.174	Manual	7/2/2012 6:54:03 PM
2	8	139171	17396.38	1.564	Manual	7/2/2012 6:59:33 PM
3	16	272712.3	17044.52	-0.491	\\USLAN-CHROMPERF\ACTIVE-DATA\CP21\T21180.0018.BND	6/28/2012 8:10:35 PM
4	32	536016.9	16750.53	-2.207	\\USLAN-CHROMPERF\ACTIVE-DATA\CP21\T21180.0019.BND	6/28/2012 8:10:47 PM
5	40	694104	17352.6	1.308	Manual	7/2/2012 7:01:16 PM

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:

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

Instrument: 18847A Init. Calib Date(s): 07/11/12 07/11/12

GC Column (1) : HP5 ID: 30 (mm) Date Analyzed: 07/12/12

Lab File ID: D18193.0068.RAW Time Analyzed: 10:17

Lab Standard ID: 2FLKXBW Initial Calibration: 2FULH193A

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Total DRO		2.87	13.66	782.58	801.60	-2

Compounds 1 Average of %D: 2

ASX73 1971

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H6783A
Init. Calib Date(s): 06/28/12 06/28/12
GC Column (1) : HP5 ID: .53 (mm)
Date Analyzed: 06/28/12
Lab File ID: T21180.0037.RAW
Time Analyzed: 23:16
Lab Standard ID: 1FLKXRM
Initial Calibration: 1FLS180A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Total DRO		1.22	11.50	745.29	800.00	-7

Compounds 1
Average of %D: 7.0

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 18847A
Init. Calib Date(s): 07/19/12 07/20/12
GC Column (1) : HP5 ID: 30 (mm)
Date Analyzed: 07/20/12
Lab File ID: D18201.0040.RAW
Time Analyzed: 6:05
Lab Standard ID: 2FUL4SE
Initial Calibration: 2FULH193A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Total DRO		2.87	13.66	2603.34	2500.00	4

Compounds 1
Average of %D: 4

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: 18847A
Init. Calib Date(s): 07/19/12 07/20/12
GC Column (1) : HP5 ID: 30 (mm)
Date Analyzed: 07/20/12
Lab File ID: D18201.0059.RAW
Time Analyzed: 13:30
Lab Standard ID: 2FUL4SF
Initial Calibration: 2FULH193A

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (ug/l)	NOM AMOUNT (ug/l)	%D
Total DRO		2.87	13.66	2699.63	2500.00	8

Compounds 1
Average of %D: 8

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories Contract:
Lab Code: Case No.: SAS No.: SDG No.:
Instrument: H6783A Init. Calib Date(s): 07/23/12 07/23/12
GC Column (1) : HP5 ID: .53 (mm) Date Analyzed: 07/26/12
Lab File ID: T21207.0027.RAW Time Analyzed: 1:34
Lab Standard ID: 1FUL3DX Initial Calibration: 1FLS180B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/kg)	NOM AMOUNT (mg/kg)	%D
Total DRO		1.20	11.47	690.39	800.00	-14

Compounds 1 Average of %D: 14

FORM VII

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H6783A
Init. Calib Date(s): 07/23/12 07/23/12
GC Column (1) : HP5 ID: .53 (mm)
Date Analyzed: 07/26/12
Lab File ID: T21207.0039.RAW
Time Analyzed: 5:48
Lab Standard ID: 1FUL3DY
Initial Calibration: 1FLS180B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/kg)	NOM AMOUNT (mg/kg)	%D
Total DRO		1.20	11.47	706.07	800.00	-12

Compounds 1
Average of %D: 12

FORM VII

ASX73 1976

7E
CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H6783A
Init. Calib Date(s): 07/23/12 07/23/12
GC Column (1) : HP5 ID: .53 (mm)
Date Analyzed: 07/26/12
Lab File ID: T21207.0051.RAW
Time Analyzed: 10:09
Lab Standard ID: 1FUL3DZ
Initial Calibration: 1FLS180B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/kg)	NOM AMOUNT (mg/kg)	%D
Total DRO		1.20	11.47	685.60	800.00	-14

Compounds 1
Average of %D: 14

FORM VII

7E

CALIBRATION VERIFICATION SUMMARY

Lab Name: Lancaster Laboratories
Contract:
Lab Code:
Case No.:
SAS No.:
SDG No.:
Instrument: H6783A
Init. Calib Date(s): 07/23/12 07/23/12
GC Column (1) : HP5 ID: .53 (mm)
Date Analyzed: 07/26/12
Lab File ID: T21207.0056.RAW
Time Analyzed: 11:55
Lab Standard ID: 1FUL3EF
Initial Calibration: 1FLS180B

COMPOUND	RT	RT WINDOW FROM	TO	CALC AMOUNT (mg/kg)	NOM AMOUNT (mg/kg)	%D
Total DRO		1.20	11.47	699.41	800.00	-13

Compounds 1
Average of %D: 13

FORM VII

Sample Data

ASX73 1979

eurofins | Lancaster Laboratories

LOQ/MDL Summary
EPH/Miscellaneous GC

SDG: ASX73

Fraction: TPH-DRO by GC

10941: TPH-DRO soil C10-C28 microwave Analyte Name	Default MDL	Default LOQ	Units
TPH-DRO soil C10-C28 microwave	4.0	12	mg/kg

08269: TPH-DRO water C10-C28 Analyte Name	Default MDL	Default LOQ	Units
TPH-DRO water C10-C28	32	100	ug/l

Lancaster Laboratories Range Data Summary

Sample Name: 6721497DF10 49-0C Sample ID: AC **Batchnumber:** 122000026A
Sample Amount: 30.1 Total Volume: 50. ml Analyst: 719 SDG:ASX73 State: DE
Analyses: 10941

Injection Summary

Injected on : 7/26/2012 10:30:48
Instrument : CP21--H6783A
Result file : T21207.0052.RAW
Calibration files : 1FLS180B.CAL
Method files : 1FUELS.MET 1REPLOTS.MET
Setting : 1FLS180BS

Surrogate Recoveries

O-TERPHENYL 90% (50-131) Conc.: 1.788041

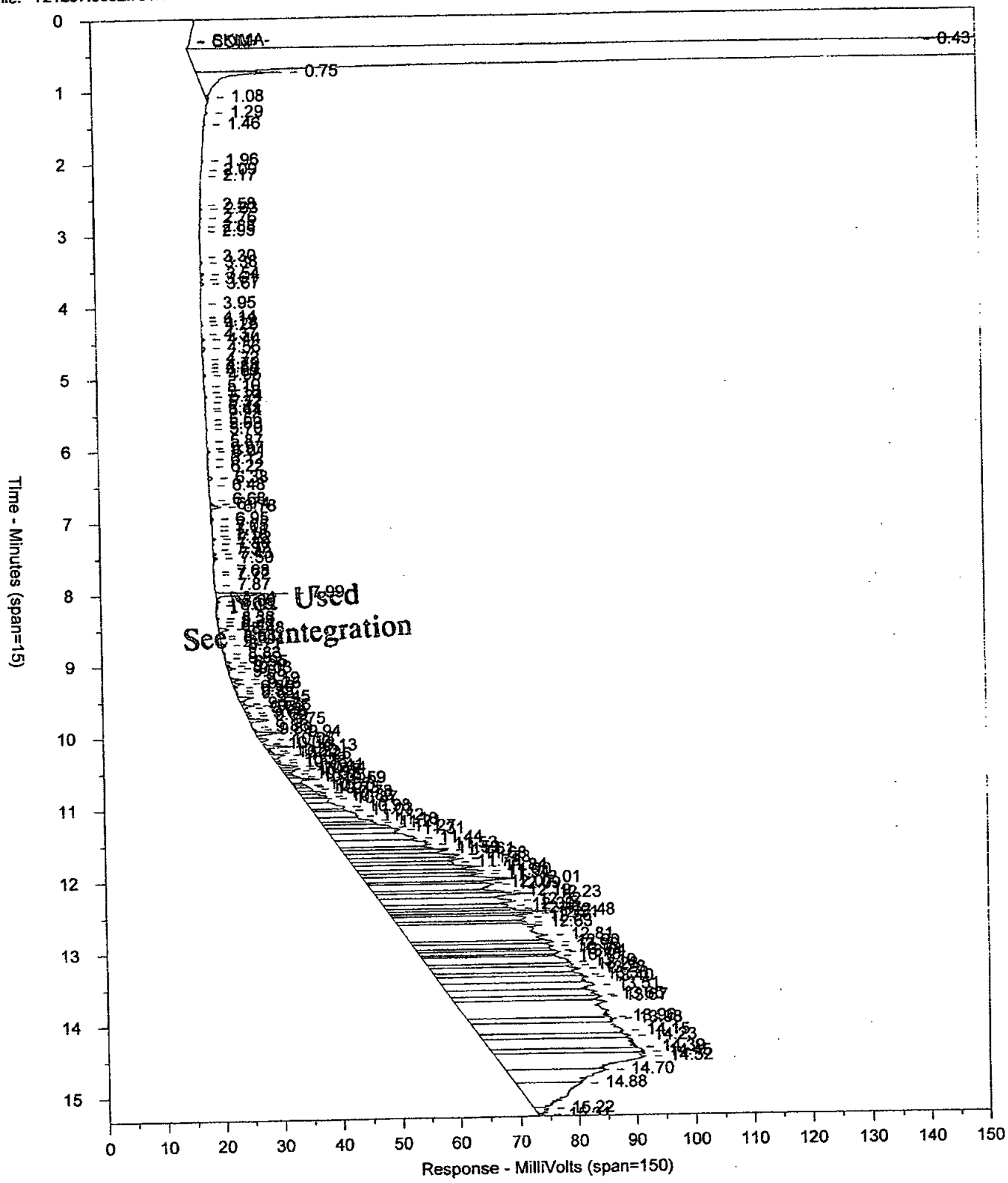
Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ o-Terphenyl	7.99 (7.95 - 8.05)	21138	1.7880				ppm
☐ Total DRO	1.20 - 11.47	2108738	189.3225	119.6013	39.8671		ppm

Comments: _____

Reviewed by: Tracy A. Cole
Date: JUL 26 2012
Tracy A. Cole
Senior Specialist

Verified by: Michele J Smith
Date: JUL 26 2012
Michele J. Smith
Senior Specialist

Sample ID: 6721497DF10 AC49-0C T 122000026A 10941 SW-846 8015B
File: T21207.0052.RAW TPH/DRO by 8015B, modified



ASX73 1982

Sample ID: 6721497DF10 AC49-0C T 122000026A 10941
File: T21207.0052.RAW

SW-846 8015B
TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 10:30:48 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30.1
Injection Volume: 1
Dilution Factor: 50

Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	1.29	C10	0.08	845
22	4.25	Capric Acid	7.58	395
62	7.99	O-terphenyl	1.82	21531

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	285.54	504223.3
2	7.95	8.05	54.82	21531.3

********** RESULTS TABLE **********

DRO AREA = 504223.3
DRO AMOUNT = 45.72756 PPM

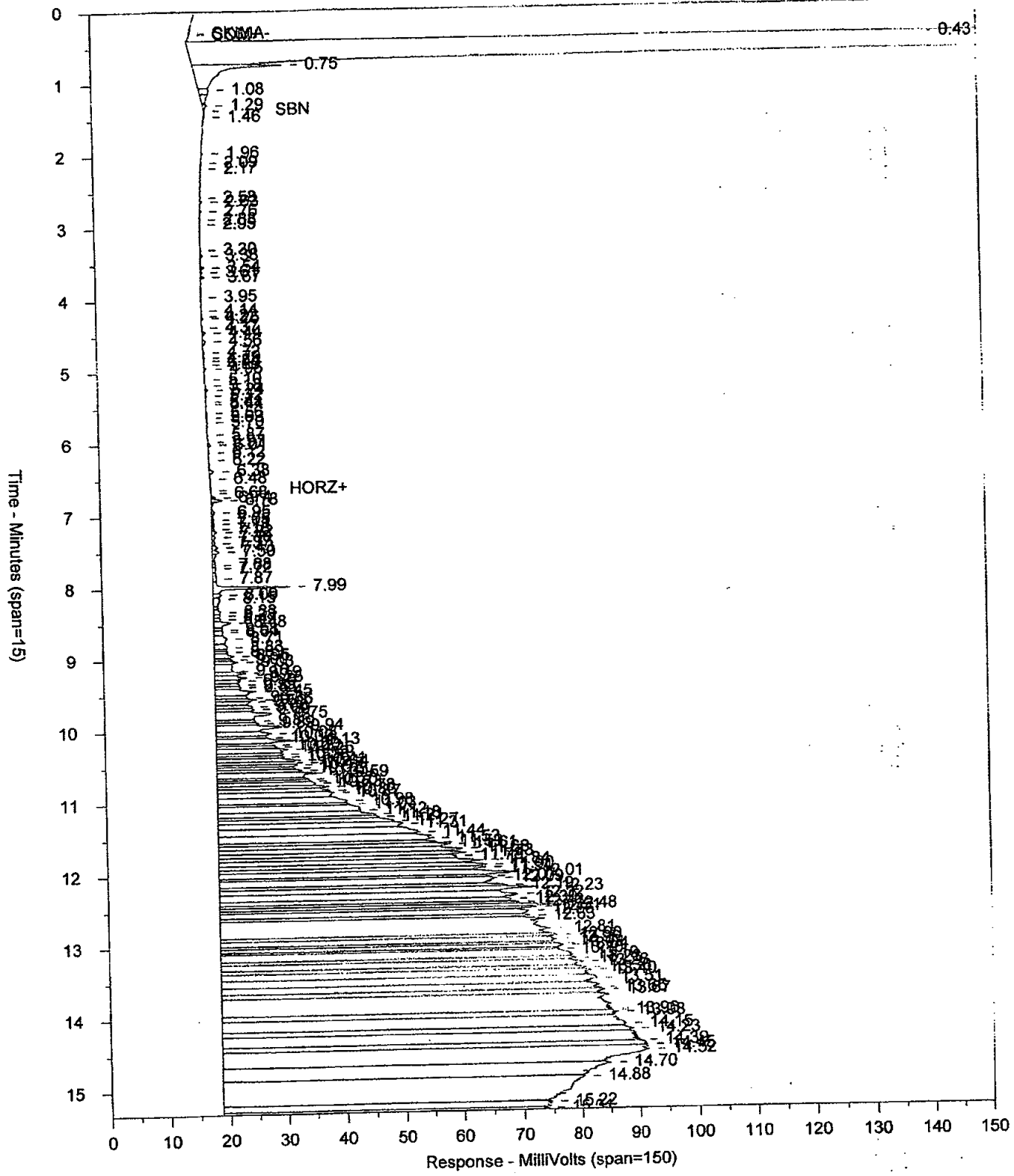
Not Used
See Reintegration

FILES:
Area File: T21207.0052.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 10:46:10 AM
File reported on: 7/26/2012 at 10:46:13 AM

ASX73 1983

Chrom Perfect Chromatogram Report

Sample ID: 6721497DF10 AC49-0C T 122000026A 10941 SW-846 8015B
File: T21207.0052.RAW TPH/DRO by 8015B, modified



Printed on 7/26/2012 11:14:01 AM

ASX73 1984

Sample ID: 6721497DF10 AC49-0C T 122000026A 10941
File: T21207.0052.RAW

SW-846 8015B
TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 10:30:48 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30.1
Injection Volume: 1
Dilution Factor: 50

Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	1.29	C10	0.22	2204
22	4.25	Capric Acid	7.61	590
62	7.99	O-terphenyl	2.45	28969

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	309.33	2108738.0
2	7.95	8.05	73.76	28968.8

********** RESULTS TABLE **********

DRO AREA = 2108738
DRO AMOUNT = 191.2395 PPM

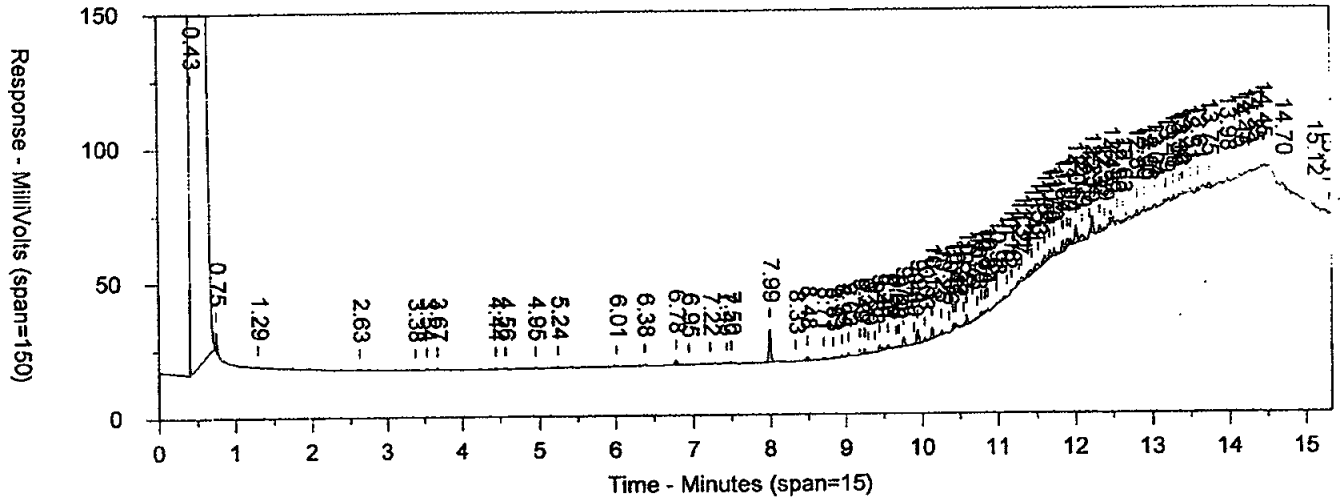
FILES:
Area File: T21207.0052.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 11:14:00 AM
File reported on: 7/26/2012 at 11:14:01 AM

M = Manually Integrated
Analyst Dell 7-26-12
Approved by MM 7/26/12
Circle Reason 1 (2) 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

ASX73 1985

Sample ID: 6721497DF10 AC49-0C T 122000026A 10941
File: T21207.0052.RAW

SW-846 8015B
Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 7/26/2012 10:30:48 AM
Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C, Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

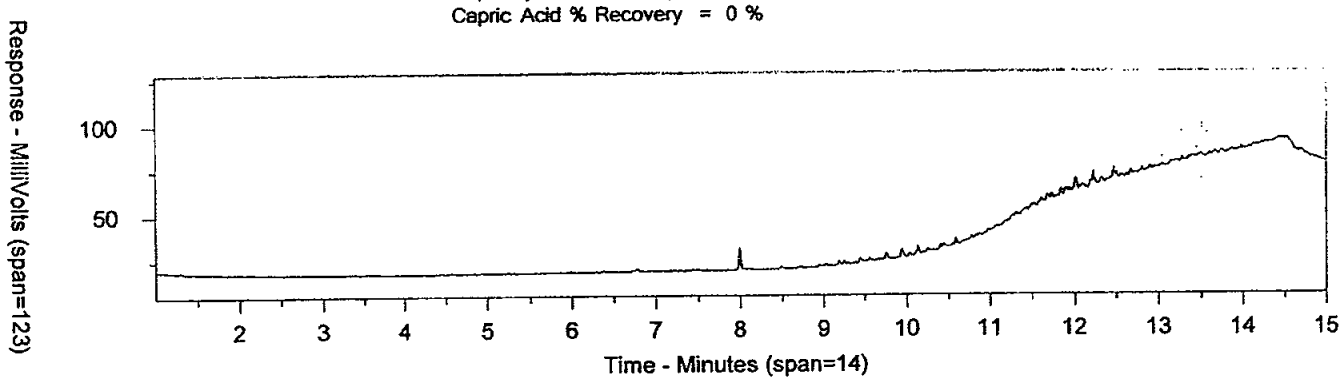
Sample Weight: 30.1
Dilution Factor: 50
Injection Volume: 1
Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
3	1.29	C10	0.08	845
19	7.99	O-terphenyl	1.79	21138

********** Results Table **********

o-Terphenyl Level 3 % Difference = 16718.76 %

WW o-Terphenyl % Recovery = 448.5003 %
SW o-Terphenyl % Recovery = 89.70006 %
Capric Acid % Recovery = 0 %



FILES:
Area File: T21207.0052.RAW
Area file created on: 7/26/2012 10:46:10 AM
File reported on: 7/26/2012 at 10:46:17 AM
Calibration File: 1FLS180B.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 1986

Lancaster Laboratories Range Data Summary

Sample Name: 6721503 32-0C Sample ID: AA **Batchnumber:** 122000026A
Sample Amount: 30.1 Total Volume: 5. ml Analyst: 1449 SDG:ASX73 State: DE
Analyses: 10941

Injection Summary

Injected on : 7/26/2012 04:02:44
Instrument : CP21--H6783A
Result file : T21207.0034.RAW
Calibration files : 1FLS180B.CAL
Method files : 1FUELS.MET 1REPLOTS.MET
Setting : 1FLS180BS

Surrogate Recoveries

O-TERPHENYL 99% (50-131) Conc.: 1.978865

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ o-Terphenyl	8.00 (7.95 - 8.05)	233942	1.9789				ppm
☐ Total DRO	1.20 - 11.47	2932131	24.4696	11.9601	3.9867		ppm

Comments: _____

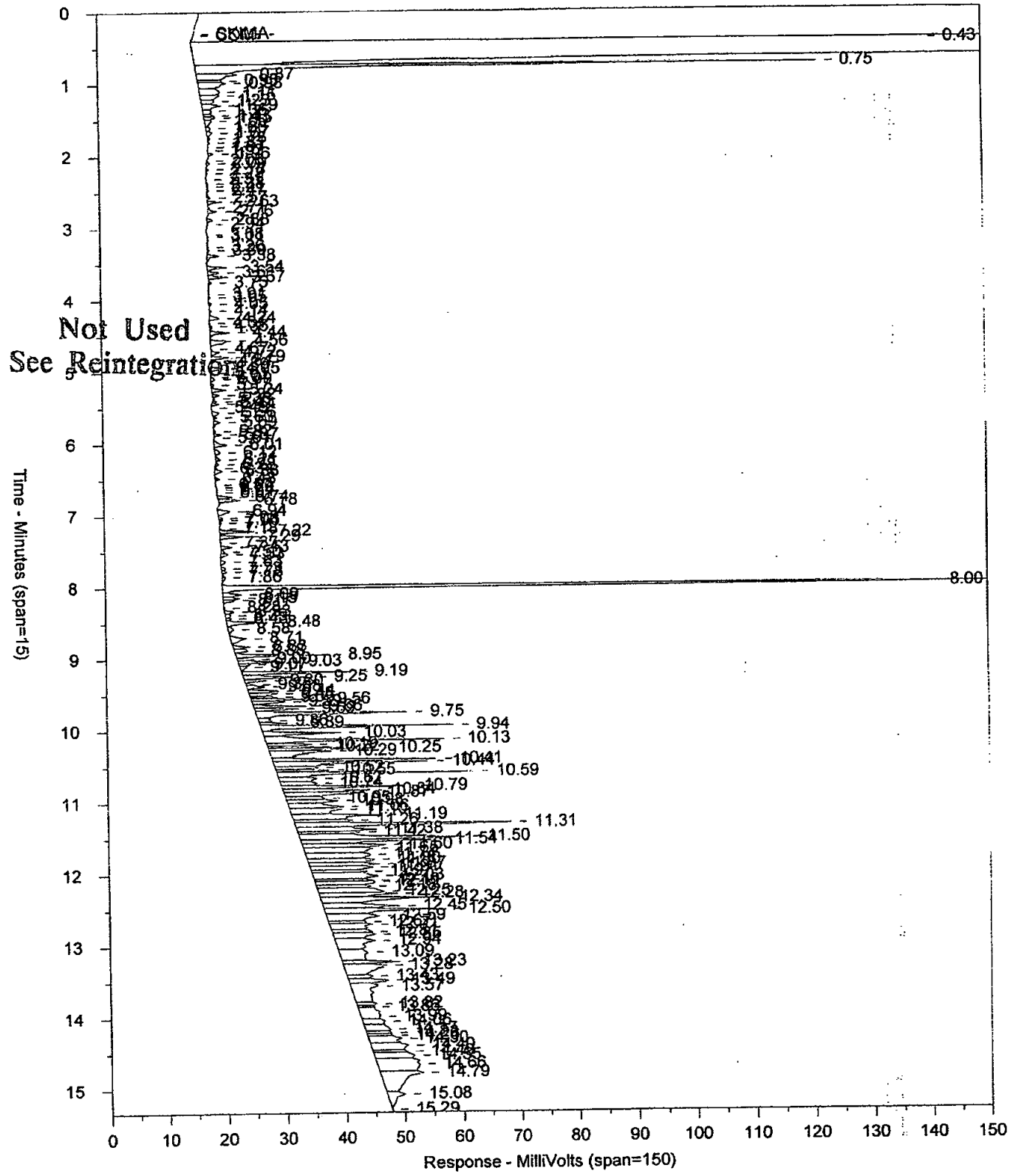
Tracy A. Cole

Reviewed by: JUL 26 2012
Date: _____
Tracy A. Cole
Senior Specialist

Verified by: Michele J. Smith
Date: JUL 26 2012
Michele J. Smith
Senior Specialist

Sample ID: 6721503 AA32-0C T 122000026A 10941
File: T21207.0034.RAW

SW-846 8015B
TPH/DRO by 8015B, modified



ASX73 1988

Sample ID: 6721503 AA32-0C T 122000026A 10941
File: T21207.0034.RAW

SW-846 8015B
TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 4:02:44 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30.1
Injection Volume: 1
Dilution Factor: 5

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
9	1.29	C10	0.10	9672
48	4.24	Capric Acid	0.81	4266
103	8.00	O-terphenyl	2:01	237446
160	11.38	C-28	0.37	38424

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	98.96	1618255.0
2	7.95	8.05	60.46	237446.1

********** RESULTS TABLE **********

DRO AREA = 1618255
DRO AMOUNT = 14.67581 PPM

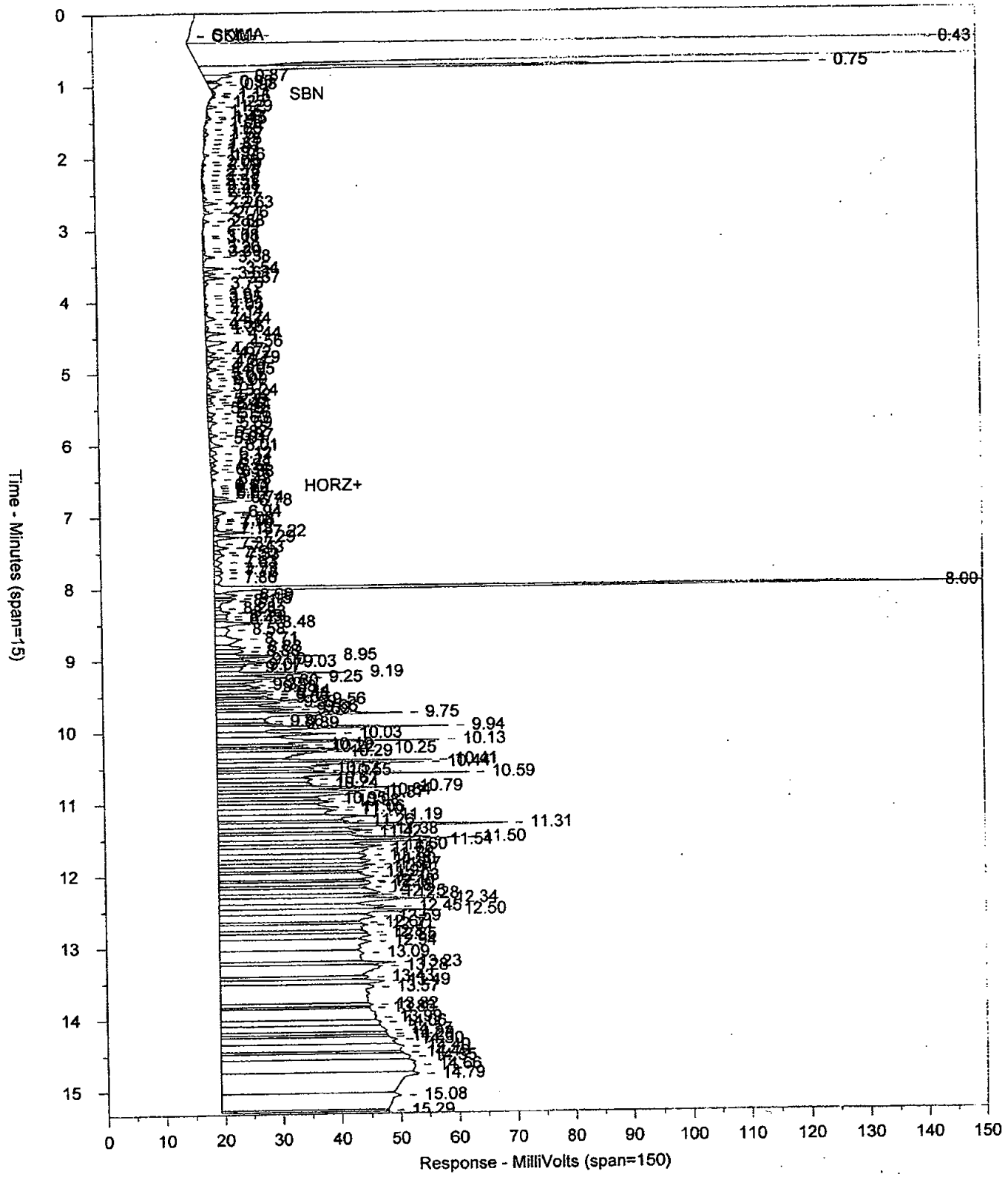
Not Used
See Reintegration

FILES:
Area File: T21207.0034.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 4:18:05 AM
File reported on: 7/26/2012 at 4:18:06 AM

ASX73 1989

Chrom Perfect Chromatogram Report

Sample ID: 6721503 AA32-0C T 122000026A 10941 SW-846 8015B
File: T21207.0034.RAW TPH/DRO by 8015B, modified



ASX73 199

Sample ID: 6721503 AA32-0C T 122000026A 10941
File: T21207.0034.RAW

SW-846 8015B
TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 4:02:44 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30.1
Injection Volume: 1
Dilution Factor: 5

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
9	1.29	C10	0.03	2861
48	4.24	Capric Acid	0.83	5639
103	8.00	O-terphenyl	2.05	242894
160	11.38	C-28	0.82	84198

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	112.23	2932131.0
2	7.95	8.05	61.84	242893.8

********** RESULTS TABLE **********

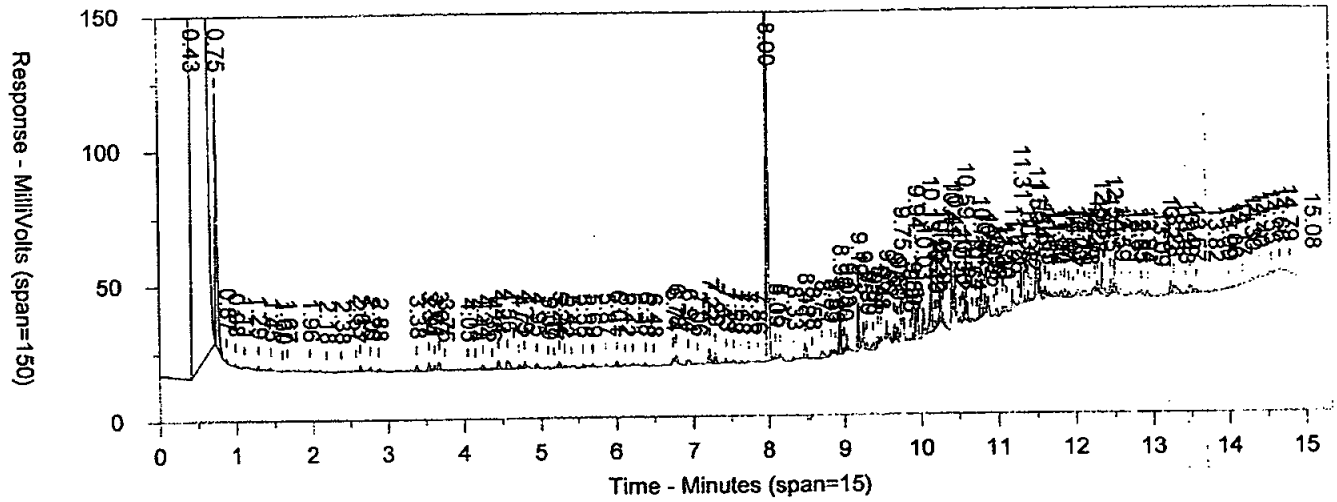
DRO AREA = 2932131
DRO AMOUNT = 26.59123 PPM

FILES:
Area File: T21207.0034.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 9:08:52 AM
File reported on: 7/26/2012 at 9:08:53 AM

M = Manually Integrated
Analyst 7-26-12
Approved by 7/26/12
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

ASX73 1991

Sample ID: 6721503 AA32-0C T 122000026A 10941 SW-846 8015B
File: T21207.0034.RAW Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 7/26/2012 4:02:44 AM
Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C, Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

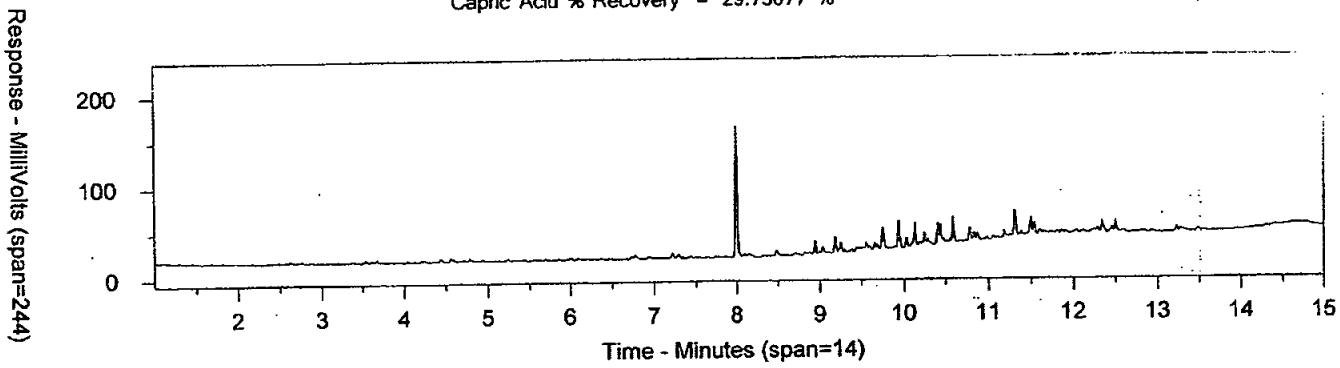
Sample Weight: 30.1
Dilution Factor: 5
Injection Volume: 1
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
6	1.29	C10	0.03	2861
24	4.24	Capric Acid	0.81	4266
55	8.00	O-terphenyl	1.98	233942
103	11.38	C-28	0.05	5132

********** Results Table **********

o-Terphenyl Level 3 % Difference = 1761.37 %

WW o-Terphenyl % Recovery = 496.3654 %
SW o-Terphenyl % Recovery = 99.27309 %
Capric Acid % Recovery = 29.73077 %



FILES:
Area File: T21207.0034.RAW
Area file created on: 7/26/2012 4:18:05 AM
File reported on: 7/26/2012 at 4:18:09 AM
Calibration File: 1FLS180B.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 192

Lancaster Laboratories-Range Data Summary

Sample Name: 6721504 EB713 Sample ID: AA **Batchnumber:** 121990015A
Sample Amount: 996. Total Volume: 2. ml Analyst: 3263 SDG:ASX73 State: DE
Analyses: 08269

Injection Summary

Injected on : 7/20/2012 08:21:31
Instrument : CP18--18847A
Result file : D18201.0046.RAW
Calibration files : 2FULH193A.CAL
Method files : 2REPLOTH.MET 2FUELH.MET
Setting : 2FULH193AW

Surrogate Recoveries

O-TERPHENYL 92% (50-154) Conc.: 22.115

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ Total DRO	2.87 - 13.66	720298	11.4799	<100.4016	<32.1285		ug/l
☐ O-terphenyl	10.33 (10.24 - 10.44)	495508	22.1150				ug/l
☐ Capric Acid	6.48 (6.46 - 6.66)	945	0.0740				ug/l

Comments: _____

Reviewed by: Michele D. Hamilton
Michele D. Hamilton
Senior Chemist Group Leader

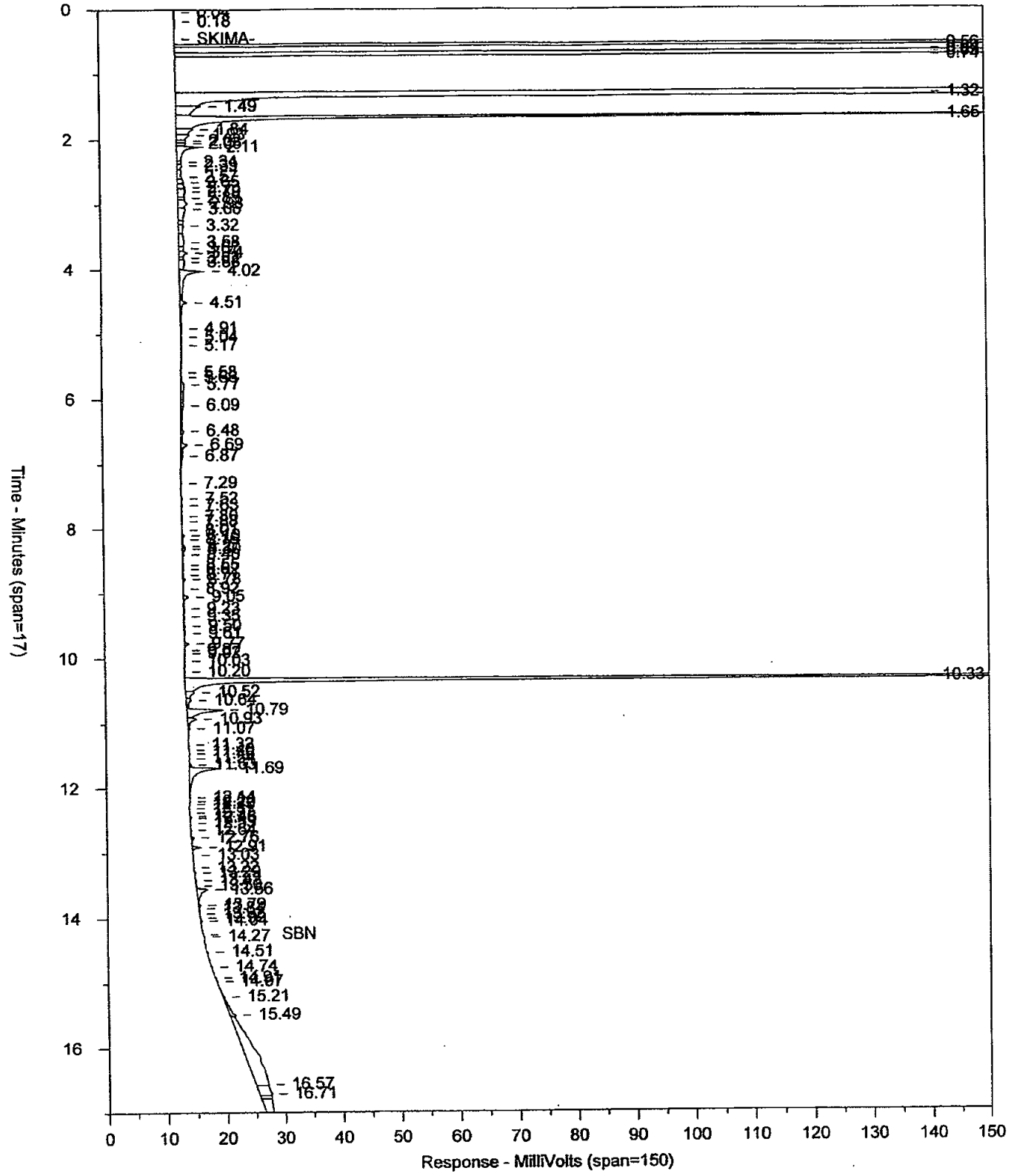
Date: JUL 25 2012

Verified by: Michele J. Smith

Date: JUL 25 2012

Michele J. Smith
Senior Specialist

6721504 AAEB713 T 121990015A 08269 SW-846 8015B
D18201.0046.RAW



ASX73 1994

LANCASTER LABORATORIES

Sample Number: 6721504 AAEB713 T 121990015A 08269 Sample Weight: 9[illegible]V-846 8015B
Injected On: 7/20/2012 8:21:30 AM Dilution Factor: 2
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt PPM	Area
C10	2.98	0.00	9874
Capric Acid	6.48	0.00	3211
O-terphenyl	10.33	0.02	494916
C28	13.56	0.00	8819

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	720298

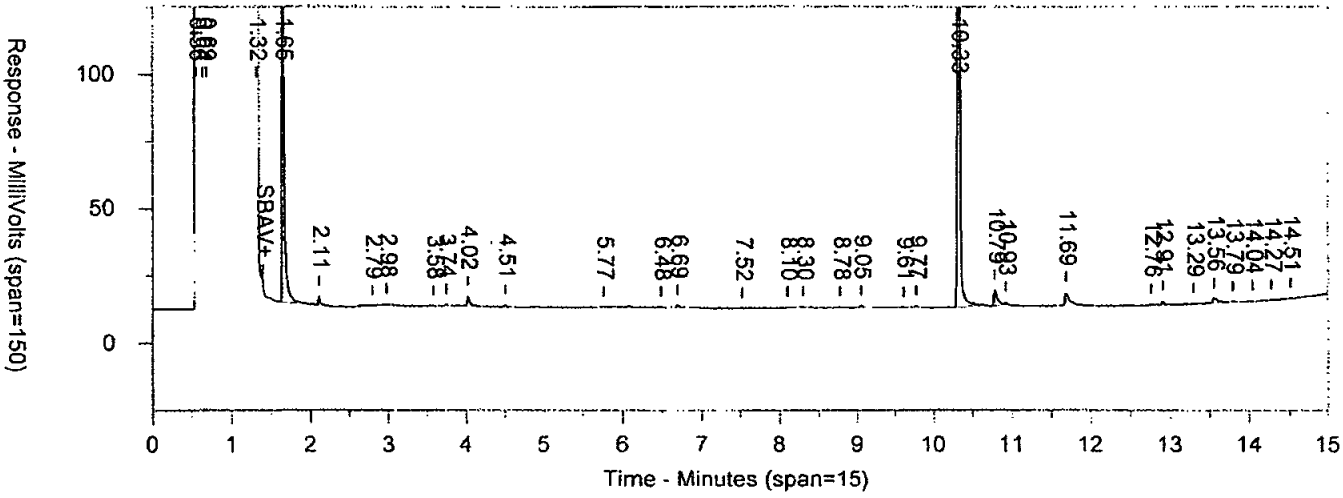
RESULTS TABLE

DRO C10-C28 AREA = 720298

Prelim DRO AMOUNT = 0.04 PPM

Area File: D18201.0046.RAW
Method: 2FUELH.MET
Calibration File: 2FULH193A.CAL
Format: 2FUELH.FMT
Area File Created On: 7/20/2012 8:38:52 AM
File Reported On: 7/23/2012 at 1:39:52 PM

6721504 AAEB713 T 121990015A 08269 D18201.0046.RAW 8015B

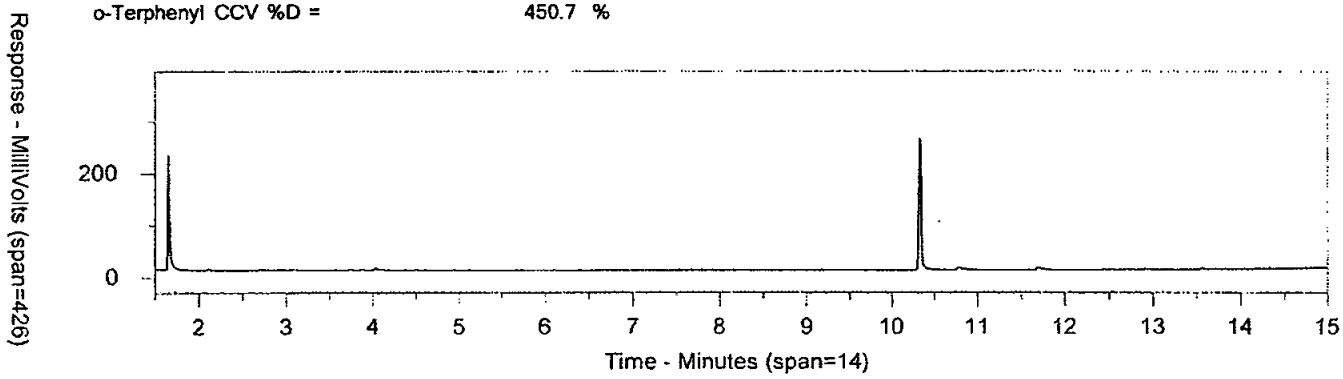


Sample Number: 6721504 AAEB713 T 121990015A 08269 Sample Weight: 8015B
Injected On: 7/20/2012 8:21:30 AM Dilution Factor: 2
Instrument ID: CP18-18847 Analyst: 3263
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Compound	RT	Amt ppm	Area
C10	2.98	0.0001	1457.395
Capric Acid	6.48	0.0001	945.0944
O-terphenyl	10.33	0.0221	495508.3
C28	13.56	0.0004	9237.048

1000 mL WW & SW o-Terphenyl Recovery =91.8 %
500 mL WW o-Terphenyl Recovery = 183.6 %
o-Terphenyl CCV %D = 450.7 %

1000 ML CAPRIC ACID % RECOVERY = 0.0 %
500 ML CAPRIC ACID % RECOVERY = 0.0 %



Area File: D18201.0046.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/20/2012 8:38:52 AM
File Reported On: 7/23/2012 at 2:39:20 PM

ASX73 1996

Standards Data

ASX73 1997

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18\D18193.seq

Chromatography Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18

Number of Entries: 78

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1	CONDITIONER	1	MISC	AA	D18193.01R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
2	CONDITIONER	2	MISC	AA	D18193.02R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
3	CONDITIONER	3	MISC	AA	D18193.03R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
4	IBLKX1232B	4	ICAL	AA	D18193.04R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
5	CAPR11232B	5	ICAL	AA	D18193.05R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
6	CAPR21232C	6	ICAL	AA	D18193.06R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
7	CAPR31232B	7	ICAL	AA	D18193.07R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
8	CAPR41232B	8	ICAL	AA	D18193.08R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
9	CAPR51232B	9	ICAL	AA	D18193.09R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
10	2TPH11232B	10	ICAL	AA	D18193.10R	P18\2DXHCHK.MET	1	1	1	1	1219299999	
11	2TPH21232B	11	ICAL	AA	D18193.11R	P18\2DXHCHK.MET	1	1	1	2	1219299999	
12	2TPH31232H	12	ICAL	AA	D18193.12R	P18\2DXHCHK.MET	1	1	1	3	1219299999	
13	2TPH41232B	13	ICAL	AA	D18193.13R	P18\2DXHCHK.MET	1	1	1	4	1219299999	
14	2TPH51232B	14	ICAL	AA	D18193.14R	P18\2DXHCHK.MET	1	1	1	5	1219299999	
15	2FUL11232C	15	ICAL	AA	D18193.15R	TA\CP18\2DXH.MET	1	1	1	0	1219299999	
16	2FUL21232C	16	ICAL	AA	D18193.16R	TA\CP18\2DXH.MET	1	1	1	0	1219299999	
17	2FUL31232B	17	ICAL	AA	D18193.17R	TA\CP18\2DXH.MET	1	1	1	0	1219299999	
18	2FUL41232G	18	ICAL	AA	D18193.18R	TA\CP18\2DXH.MET	1	1	1	0	1219299999	
19	2FUL51232B	19	ICAL	AA	D18193.19R	TA\CP18\2DXH.MET	1	1	1	0	1219299999	
20	MECL2	20	MISC	AA	D18193.20R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
21	2MDLX1232C	21	CCAL	ET	D18193.21R	TA\CP18\2DXH.MET	1	1	1	0	1219299999	
22	2MDLX1232D	22	CCAL	EU	D18193.22R	TA\CP18\2DXH.MET	1	1	1	0	1219299999	
23	2TCKX1232A	23	CCAL	AL	D18193.23R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
24	2FLKX1232H	24	CCAL	BU	D18193.24R	'18\2FULHCHK.MET	1	1	1	0	1219299999	
25	CAPR21232C	25	CCAL	AO	D18193.25R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
26	2TPH31232H	26	CCAL	SI	D18193.26R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
27	2FUL41232G	27	CCAL	QH	D18193.27R	'18\2FULHCHK.MET	1	1	1	0	1219299999	
28	2FUL41232H	28	CCAL	QN	D18193.28R	\CP18\2FUELH.MET	1	1	1	0	1219299999	
29	BLANKA 7/9/12	29	BLK	AA	D18193.29R	TA\CP18\2LAH.MET	500	2	1	0	121890004A	01070
30	LCSA 7/9/12	30	LCS	AA	D18193.30R	TA\CP18\2LAH.MET	500	2	1	0	121890004A	01070
31	LCSDA 7/9/12	31	LCSD	AA	D18193.31R	TA\CP18\2LAH.MET	500	2	1	0	121890004A	01070
32	6712370	32	T	AA	D18193.32R	TA\CP18\2LAH.MET	490	2	1	0	121890004A	01070
33	6712371	33	T	AA	D18193.33R	TA\CP18\2LAH.MET	481	2	1	0	121890004A	01070
34	6712373	34	T	AA	D18193.34R	TA\CP18\2LAH.MET	491	2	1	0	121890004A	01070
35	6712374	35	T	AA	D18193.35R	TA\CP18\2LAH.MET	494	2	1	0	121890004A	01070
36	6712372	36	T	AA	D18193.36R	TA\CP18\2LAH.MET	488	2	1	0	121890004A	01070
37	2TPH31232H	37	CCAL	SJ	D18193.37R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
38	2FUL41232G	38	CCAL	QI	D18193.38R	'18\2FULHCHK.MET	1	1	1	0	1219299999	
39	BLANKA 7/9/12	39	BLK	AA	D18193.39R	TA\CP18\2LAH.MET	500	2	1	0	121890001A	01070
40	LCSA 7/9/12	40	LCS	AA	D18193.40R	TA\CP18\2LAH.MET	500	2	1	0	121890001A	01070
41	LCSDA 7/9/12	41	LCSD	AA	D18193.41R	TA\CP18\2LAH.MET	500	2	1	0	121890001A	01070
42	6712343	42	T	AA	D18193.42R	TA\CP18\2LAH.MET	486	2	1	0	121890001A	01070
43	6712344	43	T	AA	D18193.43R	TA\CP18\2LAH.MET	487	2	1	0	121890001A	01070
44	6712345	44	T	AA	D18193.44R	TA\CP18\2LAH.MET	456	2	1	0	121890001A	01070
45	6712346	45	T	AA	D18193.45R	TA\CP18\2LAH.MET	485	2	1	0	121890001A	01070
46	6712347	46	T	AA	D18193.46R	TA\CP18\2LAH.MET	481	2	1	0	121890001A	01070
47	6712348	47	T	AA	D18193.47R	TA\CP18\2LAH.MET	481	2	1	0	121890001A	01070
48	6712349	48	T	AA	D18193.48R	TA\CP18\2LAH.MET	486	2	1	0	121890001A	01070
49	6712350	49	T	AA	D18193.49R	TA\CP18\2LAH.MET	487	2	1	0	121890001A	01070
50	6712352	50	T	AA	D18193.50R	TA\CP18\2LAH.MET	493	2	1	0	121890001A	01070

ASX73 1998

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18\D18193.seq
Chromatography Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18
Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18
Number of Entries: 78

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51	6712353	51	T	AA	D18193.51R	TA\CP18\2LAH.MET	490	2	1	0	121890001A	01070
52	6712354	52	T	AA	D18193.52R	TA\CP18\2LAH.MET	488	2	1	0	121890001A	01070
53	6712356	53	T	AA	D18193.53R	TA\CP18\2LAH.MET	487	2	1	0	121890001A	01070
54	6712357	54	T	AA	D18193.54R	TA\CP18\2LAH.MET	488	2	1	0	121890001A	01070
55	6712358	55	T	AA	D18193.55R	TA\CP18\2LAH.MET	475	2	1	0	121890001A	01070
56	6712359	56	T	AA	D18193.56R	TA\CP18\2LAH.MET	486	2	1	0	121890001A	01070
57	6712360	57	T	AA	D18193.57R	TA\CP18\2LAH.MET	485	2	1	0	121890001A	01070
58	6712361	58	T	AA	D18193.58R	TA\CP18\2LAH.MET	475	2	1	0	121890001A	01070
59	6712369	59	T	AA	D18193.59R	TA\CP18\2LAH.MET	483	2	1	0	121890001A	01070
60	6712355	60	T	AA	D18193.60R	TA\CP18\2LAH.MET	481	2	1	0	121890001A	01070
61	MECL2	61	MISC	AA	D18193.61R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
62	6712351	62	T	AA	D18193.62R	TA\CP18\2LAH.MET	474	2	1	0	121890001A	01070
63	MECL2	63	MISC	AA	D18193.63R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
64	2TPH31232H	64	CCAL	SK	D18193.64R	P18\2DXHCHK.MET	1	1	1	0	1219299999	
65	2FUL41232G	65	CCAL	QJ	D18193.65R	'18\2FULHCHK.MET	1	1	1	0	1219299999	
66	BLANKA 7/5/12S	66	BLK	AB	D18193.66R	\CP18\2FUELH.MET	1000	2	1	0	121850025A	02216
67	LCSA 7/5/12S	67	LCS	AB	D18193.67R	\CP18\2FUELH.MET	1000	2	1	0	121850025A	02216
68	2FLKX1232I	68	CCAL	BW	D18193.68R	P18\2DXHCHK.MET	1	1	1	0	1219399999	
69	LCSDA 7/5/12S	69	LCSD	AB	D18193.69R	\CP18\2FUELH.MET	1000	2	1	0	121850025A	02216
70	6709242S	70	T	AB	D18193.70R	\CP18\2FUELH.MET	1019	2	1	0	121850025A	02216
71	6709243S	71	T	AB	D18193.71R	\CP18\2FUELH.MET	1040	2	1	0	121850025A	02216
72	2TPH31232H	72	CCAL	SO	D18193.72R	P18\2DXHCHK.MET	1	1	1	0	1219399999	
73	2FUL41232G	73	CCAL	QO	D18193.73R	'18\2FULHCHK.MET	1	1	1	0	1219399999	
74	CONDITIONER	0	MISC	AA	D18193.74R	'18\2FULHCHK.MET	1	1	1	0	1219399999	
75	CONDITIONER	0	MISC	AA	D18193.75R	'18\2FULHCHK.MET	1	1	1	0	1219399999	
76	CONDITIONER	0	MISC	AA	D18193.76R	'18\2FULHCHK.MET	1	1	1	0	1219399999	
77	CONDITIONER	0	MISC	AA	D18193.77R	'18\2FULHCHK.MET	1	1	1	0	1219399999	
78	CONDITIONER	0	MISC	AA	D18193.78R	'18\2FULHCHK.MET	1	1	1	0	1219399999	

Set-up by: Cristin Palmer Date: 7/12/12

ASX73 1999

Lancaster Laboratories

CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\active-data\CP21\T21180.seq

Chromatography Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP21

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP21

Number of Entries: 37

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1	CONDITIONER	1	MISC	AA	T21180.01R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
2	CARTX1232C	2	CCAL	OC	T21180.02R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
3	NO INJECTION	0	MISC	AA	T21180.03R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
4	NO INJECTION	0	MISC	AA	T21180.04R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
5	NO INJECTION	0	MISC	AA	T21180.05R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
6	NO INJECTION	0	MISC	AA	T21180.06R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
7	NO INJECTION	0	MISC	AA	T21180.07R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
8	NO INJECTION	0	MISC	AA	T21180.08R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
9	NO INJECTION	0	MISC	AA	T21180.09R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
10	NO INJECTION	0	MISC	AA	T21180.10R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
11	NO INJECTION	0	MISC	AA	T21180.11R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
12	NO INJECTION	0	MISC	AA	T21180.12R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
13	NO INJECTION	0	MISC	AA	T21180.13R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
14	NO INJECTION	0	MISC	AA	T21180.14R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
15	IBLKX1232B	1	ICAL	AA	T21180.15R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
16	TPH_11232B	2	ICAL	AA	T21180.16R	.CP21\DXSSTD.MET	1	1	1	1	1217899999	
17	TPH_21232E	3	ICAL	AA	T21180.17R	.CP21\DXSSTD.MET	1	1	1	2	1217899999	
18	TPH_31232E	4	ICAL	AA	T21180.18R	.CP21\DXSSTD.MET	1	1	1	3	1217899999	
19	TPH_41232E	5	ICAL	AA	T21180.19R	.CP21\DXSSTD.MET	1	1	1	4	1217899999	
20	TPH_51232B	6	ICAL	AA	T21180.20R	.CP21\DXSSTD.MET	1	1	1	5	1217899999	
21	1FUL11232D	7	ICAL	AA	T21180.21R	21\RANGESDX.MET	1	1	1	0	1217999999	
22	1FUL21232C	8	ICAL	AA	T21180.22R	21\RANGESDX.MET	1	1	1	0	1217999999	
23	1FUL31232G	9	ICAL	AA	T21180.23R	21\RANGESDX.MET	1	1	1	0	1217999999	
24	1FUL41232C	10	ICAL	AA	T21180.24R	21\RANGESDX.MET	1	1	1	0	1217999999	
25	1FUL51232C	11	ICAL	AA	T21180.25R	21\RANGESDX.MET	1	1	1	0	1217999999	
26	CAPR11232B	12	ICAL	AA	T21180.26R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
27	CAPR21232C	13	ICAL	AA	T21180.27R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
28	CAPR31232B	14	ICAL	AA	T21180.28R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
29	CAPR41232B	15	ICAL	AA	T21180.29R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
30	CAPR51232B	16	ICAL	AA	T21180.30R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
31	MECL2	17	MISC	AA	T21180.31R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
32	TMDLX1232B	18	CCAL	TN	T21180.32R	21\RANGESDX.MET	1	1	1	0	1217899999	
33	FMDLX1232A	19	CCAL	EZ	T21180.33R	21\RANGESDX.MET	1	1	1	0	1217899999	
34	TPHCX1232C	20	CCAL	VX	T21180.34R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
35	CAPR11232B	21	ICAL	AA	T21180.35R	.CP21\DXSSTD.MET	1	1	1	0	1217899999	
36	1MDLX1232A	22	CCAL	LP	T21180.36R	21\1FULSCHK.MET	1	1	1	0	1217999999	
37	1FLKX1232B	23	CCAL	RM	T21180.37R	21\1FULSCHK.MET	1	1	1	0	1217999999	

Set-up by: _____ Date: 6/29/12

6/29/2012

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\active-data\CP21\T21205.seq

Chromatography Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP21

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP21

Number of Entries: 92

RT update
alem124
7-27-12

	Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	CONDITIONER	1	MISC	AA	T21205.01R	'21\1FULSCHK.MET	1	1	1	0	1220499999	
2	CONDITIONER	2	MISC	AA	T21205.02R	'21\1FULSCHK.MET	1	1	1	0	1220499999	
3	CONDITIONER	3	MISC	AA	T21205.03R	'21\1FULSCHK.MET	1	1	1	0	1220499999	
4	TPH_31232F	4	CCAL	BH	T21205.04R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
5	1FUL31232G	5	CCAL	DL	T21205.05R	'21\1FULSCHK.MET	1	1	1	0	1220499999	
6	BLANKA 7/20/12	6	BLK	AA	T21205.06R	\CP21\1FUELS.MET	30	5	1	0	122010032A	10941
7	LCSA 7/20/12	7	LCS	AA	T21205.07R	\CP21\1FUELS.MET	30	5	1	0	122010032A	10941
8	6723627	8	T	AA	T21205.08R	\CP21\1FUELS.MET	30.2	5	1	0	122010032A	10941
9	6723628	9	T	AA	T21205.09R	\CP21\1FUELS.MET	30.3	5	1	0	122010032A	10941
10	6723630	10	T	AA	T21205.10R	\CP21\1FUELS.MET	30	5	1	0	122010032A	10941
11	6723631	11	T	AA	T21205.11R	\CP21\1FUELS.MET	30.2	5	1	0	122010032A	10941
12	6723632	12	T	AA	T21205.12R	\CP21\1FUELS.MET	30.1	5	1	0	122010032A	10941
13	6723633	13	T	AA	T21205.13R	\CP21\1FUELS.MET	30.5	5	1	0	122010032A	10941
14	6723638	14	T	AA	T21205.14R	\CP21\1FUELS.MET	30.3	5	1	0	122010032A	10941
15	6723639	15	T	AA	T21205.15R	\CP21\1FUELS.MET	30.1	5	1	0	122010032A	10941
16	6723624	16	T	AA	T21205.16R	\CP21\1FUELS.MET	30.3	5	1	0	122010032A	10941
17	6723624 7/20/12	17	DUP	AA	T21205.17R	\CP21\1FUELS.MET	30.1	5	1	0	122010032A	10941
18	6723624MS	18	MS	AA	T21205.18R	\CP21\1FUELS.MET	30.3	5	1	0	122010032A	10941
19	6723634	19	T	AA	T21205.19R	\CP21\1FUELS.MET	30.2	5	1	0	122010032A	10941
20	6723635	20	T	AA	T21205.20R	\CP21\1FUELS.MET	30.3	5	1	0	122010032A	10941
21	6720436DF50	21	T	AC	T21205.21R	\CP21\1FUELS.MET	30	250	1	0	121990003A	10941
22	TPH_31232F	22	CCAL	BJ	T21205.22R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
23	1FUL31232G	23	CCAL	DM	T21205.23R	'21\1FULSCHK.MET	1	1	1	0	1220499999	
24	6719844DF10	24	T	AB	T21205.24R	21\RANGESDX.MET	60.1	50	1	0	122000019A	08272
25	6719850DF10	25	T	AB	T21205.25R	21\RANGESDX.MET	60.1	50	1	0	122000019A	08272
26	6719818DF20	26	T	AC	T21205.26R	21\RANGESDX.MET	60	100	1	0	121990007A	08272
27	6719816 7/17/12DF10	27	DUP	AB	T21205.27R	21\RANGESDX.MET	60	50	1	0	121990007A	08272
28	6719816DF10	28	T	AB	T21205.28R	21\RANGESDX.MET	60	50	1	0	121990007A	08272
29	6719817DF5	29	T	AB	T21205.29R	21\RANGESDX.MET	60	25	1	0	121990007A	08272
30	6723636	30	T	AA	T21205.30R	\CP21\1FUELS.MET	30.1	5	1	0	122010032A	10941
31	6723637	31	T	AA	T21205.31R	\CP21\1FUELS.MET	30.1	5	1	0	122010032A	10941
32	6723625	32	T	AA	T21205.32R	\CP21\1FUELS.MET	30	5	1	0	122010032A	10941
33	6723626	33	T	AA	T21205.33R	\CP21\1FUELS.MET	30	5	1	0	122010032A	10941
34	6723629	34	T	AA	T21205.34R	\CP21\1FUELS.MET	30.2	5	1	0	122010032A	10941
35	TPH_31232F	35	CCAL	BN	T21205.35R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
36	1FUL31232G	36	CCAL	DQ	T21205.36R	'21\1FULSCHK.MET	1	1	1	0	1220499999	
37	BLANKA 7/18/12	37	BLK	AA	T21205.37R	\CP21\1FUELS.MET	30	5	1	0	121990020A	10941
38	LCSA 7/18/12	38	LCS	AA	T21205.38R	\CP21\1FUELS.MET	30	5	1	0	121990020A	10941
39	6719757	39	T	AA	T21205.39R	\CP21\1FUELS.MET	30.1	5	1	0	121990020A	10941
40	6719759	40	T	AA	T21205.40R	\CP21\1FUELS.MET	30	5	1	0	121990020A	10941
41	6719763	41	T	AA	T21205.41R	\CP21\1FUELS.MET	30.3	5	1	0	121990020A	10941
42	6719765	42	T	AA	T21205.42R	\CP21\1FUELS.MET	30.2	5	1	0	121990020A	10941
43	6719769	43	T	AA	T21205.43R	\CP21\1FUELS.MET	30	5	1	0	121990020A	10941
44	6719775	44	T	AA	T21205.44R	\CP21\1FUELS.MET	30.3	5	1	0	121990020A	10941
45	6719777	45	T	AA	T21205.45R	\CP21\1FUELS.MET	30.2	5	1	0	121990020A	10941
46	6719781DF5	46	T	AB	T21205.46R	\CP21\1FUELS.MET	30.1	25	1	0	121990020A	10941
47	6719783DF5	47	T	AB	T21205.47R	\CP21\1FUELS.MET	30.2	25	1	0	121990020A	10941
48	TPH_31232F	48	CCAL	BL	T21205.48R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
49	1FUL31232G	49	CCAL	DO	T21205.49R	'21\1FULSCHK.MET	1	1	1	0	1220499999	
50	6719751DF10	50	T	AB	T21205.50R	\CP21\1FUELS.MET	30	50	1	0	121990020A	10941

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\active-data\CP21\T21205.seq

Chromatography Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP21

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP21

Number of Entries: 92

Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51 6719751 7/18/12DF10	51	DUP	AB	T21205.51R	\CP21\1FUELS.MET	30.1	50	1	0	121990020A	10941
52 6719751MSDF10	52	MS	AB	T21205.52R	\CP21\1FUELS.MET	30.1	50	1	0	121990020A	10941
53 6719753DF5	53	T	AB	T21205.53R	\CP21\1FUELS.MET	30.4	25	1	0	121990020A	10941
54 6719755DF5	54	T	AB	T21205.54R	\CP21\1FUELS.MET	30	25	1	0	121990020A	10941
55 6719761DF5	55	T	AB	T21205.55R	\CP21\1FUELS.MET	30.1	25	1	0	121990020A	10941
56 6719767DF5	56	T	AB	T21205.56R	\CP21\1FUELS.MET	30	25	1	0	121990020A	10941
57 6719771DF10	57	T	AB	T21205.57R	\CP21\1FUELS.MET	30.2	50	1	0	121990020A	10941
58 MECL2	58	MISC	AA	T21205.58R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
59 6719773DF5	59	T	AB	T21205.59R	\CP21\1FUELS.MET	30	25	1	0	121990020A	10941
60 6719779DF25	60	T	AB	T21205.60R	\CP21\1FUELS.MET	30.1	125	1	0	121990020A	10941
61 TPH_31232F	61	CCAL	BM	T21205.61R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
62 1FUL31232G	62	CCAL	DP	T21205.62R	'21\1FULSCHK.MET	1	1	1	0	1220499999	
63 BLANKA 7/18/12	63	BLK	AA	T21205.63R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
64 LCSA 7/18/12	64	LCS	AA	T21205.64R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
65 6720525	65	T	AA	T21205.65R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
66 6720535	66	T	AA	T21205.66R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
67 6720537	67	T	AA	T21205.67R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
68 6720541	68	T	AA	T21205.68R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
69 6720543	69	T	AA	T21205.69R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
70 6720545	70	T	AA	T21205.70R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
71 6720547	71	T	AA	T21205.71R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
72 6720559	72	T	AA	T21205.72R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
73 6720555DF5	73	T	AB	T21205.73R	\CP21\1FUELS.MET	30	25	1	0	122000001A	10941
74 6720551DF5	74	T	AB	T21205.74R	\CP21\1FUELS.MET	30	25	1	0	122000001A	10941
75 6720553DF5	75	T	AB	T21205.75R	\CP21\1FUELS.MET	30	25	1	0	122000001A	10941
76 TPH_31232F	76	CCAL	BI	T21205.76R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
77 1FUL31232G	77	CCAL	DN	T21205.77R	'21\1FULSCHK.MET	1	1	1	0	1220499999	
78 6720521DF25	78	T	AB	T21205.78R	\CP21\1FUELS.MET	30	125	1	0	122000001A	10941
79 6720521 7/18/12DF25	79	DUP	AB	T21205.79R	\CP21\1FUELS.MET	30	125	1	0	122000001A	10941
80 6720521MSDF25	80	MS	AB	T21205.80R	\CP21\1FUELS.MET	30	125	1	0	122000001A	10941
81 6720523DF10	81	T	AB	T21205.81R	\CP21\1FUELS.MET	30	50	1	0	122000001A	10941
82 6720527DF25	82	T	AB	T21205.82R	\CP21\1FUELS.MET	30	125	1	0	122000001A	10941
83 MECL2	83	MISC	AA	T21205.83R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
84 6720529DF5	84	T	AB	T21205.84R	\CP21\1FUELS.MET	30	25	1	0	122000001A	10941
85 6720533DF5	85	T	AB	T21205.85R	\CP21\1FUELS.MET	30	25	1	0	122000001A	10941
86 6720539DF25	86	T	AB	T21205.86R	\CP21\1FUELS.MET	30	125	1	0	122000001A	10941
87 MECL2	87	MISC	AA	T21205.87R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
88 6720531	88	T	AA	T21205.88R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
89 6720549	89	T	AA	T21205.89R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
90 6720557	90	T	AA	T21205.90R	\CP21\1FUELS.MET	30	5	1	0	122000001A	10941
91 TPH_31232F	91	CCAL	BW	T21205.91R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
92 1FUL31232G	92	CCAL	DR	T21205.92R	'21\1FULSCHK.MET	1	1	1	0	1220499999	

Set-up by: _____ Date: 7/23/12

7/23/2012

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\active-data\CP18\D18201.seq

Chromatography Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18

Number of Entries: 111

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1	CARTX1232D	1	CCAL	PU	D18201.01R	P18\2DXHCHK.MET	1	1	1	0	1220099999	
2	2TPH31232H	2	CCAL	UC	D18201.02R	P18\2DXHCHK.MET	1	1	1	0	1220099999	
3	2FUL41232H	3	CCAL	SC	D18201.03R	18\2FULHCHK.MET	1	1	1	0	1220099999	
4	BLANKA 7/16/12 RI S	4	BLK	AB	D18201.04R	\CP18\2FUELH.MET	1000	2	1	0	121960005A	02216
5	LCSA 7/16/12 RI S	5	LCS	AB	D18201.05R	\CP18\2FUELH.MET	1000	2	1	0	121960005A	02216
6	LCSDA 7/16/12 RI S	6	LCSD	AB	D18201.06R	\CP18\2FUELH.MET	1000	2	1	0	121960005A	02216
7	6718327 RI S	7	T	AB	D18201.07R	\CP18\2FUELH.MET	1026	2	1	0	121960005A	02216
8	6718328 RI S	8	T	AB	D18201.08R	\CP18\2FUELH.MET	992	2	1	0	121960005A	02216
9	6718329 RI S	9	T	AB	D18201.09R	\CP18\2FUELH.MET	983	2	1	0	121960005A	02216
10	6718330 RI S	10	T	AB	D18201.10R	\CP18\2FUELH.MET	1010	2	1	0	121960005A	02216
11	6718332 RI S	11	T	AB	D18201.11R	\CP18\2FUELH.MET	1029	2	1	0	121960005A	02216
12	6718334 RI S	12	T	AB	D18201.12R	\CP18\2FUELH.MET	996	2	1	0	121960005A	02216
13	6718336 RI S	13	T	AB	D18201.13R	\CP18\2FUELH.MET	982	2	1	0	121960005A	02216
14	6718338 RI S	14	T	AB	D18201.14R	\CP18\2FUELH.MET	991	2	1	0	121960005A	02216
15	6718340 RI S	15	T	AB	D18201.15R	\CP18\2FUELH.MET	996	2	1	0	121960005A	02216
16	6718342 RI S	16	T	AB	D18201.16R	\CP18\2FUELH.MET	1006	2	1	0	121960005A	02216
17	6718344 RI S	17	T	AB	D18201.17R	\CP18\2FUELH.MET	1032	2	1	0	121960005A	02216
18	6718346 RI S	18	T	AB	D18201.18R	\CP18\2FUELH.MET	1035	2	1	0	121960005A	02216
19	6718350 RI S	19	T	AB	D18201.19R	\CP18\2FUELH.MET	1055	2	1	0	121960005A	02216
20	6718352 RI S	20	T	AB	D18201.20R	\CP18\2FUELH.MET	992	2	1	0	121960005A	02216
21	6718354 RI S	21	T	AB	D18201.21R	\CP18\2FUELH.MET	990	2	1	0	121960005A	02216
22	6718348S DF2	22	T	AC	D18201.22R	\CP18\2FUELH.MET	1048	4	1	0	121960005A	02216
23	6718356S DF5	23	T	AC	D18201.23R	\CP18\2FUELH.MET	1043	10	1	0	121960005A	02216
24	2TPH31232H	24	CCAL	UD	D18201.24R	P18\2DXHCHK.MET	1	1	1	0	1220099999	
25	2FUL41232H	25	CCAL	SD	D18201.25R	18\2FULHCHK.MET	1	1	1	0	1220099999	
26	BLANKA 7/18/12S	26	BLK	AB	D18201.26R	TA\CP18\2DXH.MET	1000	2	1	0	122000009A	02211
27	LCSA 7/18/12S	27	LCS	AB	D18201.27R	TA\CP18\2DXH.MET	1000	2	1	0	122000009A	02211
28	LCSDA 7/18/12S	28	LCSD	AB	D18201.28R	TA\CP18\2DXH.MET	1000	2	1	0	122000009A	02211
29	6717493S	29	T	AB	D18201.29R	TA\CP18\2DXH.MET	982	2	1	0	122000009A	02211
30	6719427S	30	T	AB	D18201.30R	TA\CP18\2DXH.MET	1023	2	1	0	122000009A	02211
31	6719431S	31	T	AB	D18201.31R	TA\CP18\2DXH.MET	1023	2	1	0	122000009A	02211
32	6719433S	32	T	AB	D18201.32R	TA\CP18\2DXH.MET	992	2	1	0	122000009A	02211
33	6719434S	33	T	AB	D18201.33R	TA\CP18\2DXH.MET	985	2	1	0	122000009A	02211
34	6719435S	34	T	AB	D18201.34R	TA\CP18\2DXH.MET	1029	2	1	0	122000009A	02211
35	6719428S	35	T	AB	D18201.35R	TA\CP18\2DXH.MET	1020	2	1	0	122000009A	02211
36	6719429S	36	T	AB	D18201.36R	TA\CP18\2DXH.MET	994	2	1	0	122000009A	02211
37	6719430S	37	T	AB	D18201.37R	TA\CP18\2DXH.MET	1020	2	1	0	122000009A	02211
38	6719432S	38	T	AB	D18201.38R	TA\CP18\2DXH.MET	1014	2	1	0	122000009A	02211
39	2TPH31232H	39	CCAL	UE	D18201.39R	P18\2DXHCHK.MET	1	1	1	0	1220099999	
40	2FUL41232H	40	CCAL	SE	D18201.40R	18\2FULHCHK.MET	1	1	1	0	1220099999	
41	BLANKA 7/18/12	41	BLK	AA	D18201.41R	\CP18\2FUELH.MET	1000	2	1	0	121990015A	08269
42	LCSA 7/18/12	42	LCS	AA	D18201.42R	\CP18\2FUELH.MET	1000	2	1	0	121990015A	08269
43	LCSDA 7/18/12	43	LCSD	AA	D18201.43R	\CP18\2FUELH.MET	1000	2	1	0	121990015A	08269
44	6718947	44	T	AA	D18201.44R	\CP18\2FUELH.MET	1017	2	1	0	121990015A	08269
45	6720093	45	T	AA	D18201.45R	\CP18\2FUELH.MET	1022	2	1	0	121990015A	08269
46	6721504	46	T	AA	D18201.46R	\CP18\2FUELH.MET	996	2	1	0	121990015A	08269
47	6718941	47	T	AA	D18201.47R	\CP18\2FUELH.MET	1042	2	1	0	121990015A	08269
48	6718943	48	T	AA	D18201.48R	\CP18\2FUELH.MET	1043	2	1	0	121990015A	08269
49	6718945	49	T	AA	D18201.49R	\CP18\2FUELH.MET	1045	2	1	0	121990015A	08269
50	6718949	50	T	AA	D18201.50R	\CP18\2FUELH.MET	1049	2	1	0	121990015A	08269

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\active-data\CP18\D18201.seq

Chromatography Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18

Number of Entries: 111

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51	6718927	51	T	AA	D18201.51R	\CP18\2FUELH.MET	1050	2	1	0	121990015A	08269
52	6718929	52	T	AA	D18201.52R	\CP18\2FUELH.MET	1022	2	1	0	121990015A	08269
53	6718931	53	T	AA	D18201.53R	\CP18\2FUELH.MET	1034	2	1	0	121990015A	08269
54	6718933	54	T	AA	D18201.54R	\CP18\2FUELH.MET	1035	2	1	0	121990015A	08269
55	6718935	55	T	AA	D18201.55R	\CP18\2FUELH.MET	1053	2	1	0	121990015A	08269
56	6718937	56	T	AA	D18201.56R	\CP18\2FUELH.MET	1047	2	1	0	121990015A	08269
57	6718939	57	T	AA	D18201.57R	\CP18\2FUELH.MET	1052	2	1	0	121990015A	08269
58	2TPH31232H	58	CCAL	UF	D18201.58R	P18\2DXHCHK.MET	1	1	1	0	1220099999	
59	2FUL41232H	59	CCAL	SF	D18201.59R	'18\2FULHCHK.MET	1	1	1	0	1220099999	
60	BLANKA 7/18/12	60	BLK	AA	D18201.60R	TA\CP18\2LAH.MET	500	2	1	0	121990019A	01070
61	LCSA 7/18/12	61	LCS	AA	D18201.61R	TA\CP18\2LAH.MET	500	2	1	0	121990019A	01070
62	LCSDA 7/18/12	62	LCSD	AA	D18201.62R	TA\CP18\2LAH.MET	500	2	1	0	121990019A	01070
63	6720460	63	T	AA	D18201.63R	TA\CP18\2LAH.MET	483	2	1	0	121990019A	01070
64	2TPH31232H	64	CCAL	UG	D18201.64R	P18\2DXHCHK.MET	1	1	1	0	1220099999	
65	2FUL41232H	65	CCAL	SG	D18201.65R	'18\2FULHCHK.MET	1	1	1	0	1220099999	
66	CONDITIONER	0	MISC	AA	D18201.66R	'18\2FULHCHK.MET	1	1	1	0	1220099999	
67	CONDITIONER	0	MISC	AA	D18201.67R	'18\2FULHCHK.MET	1	1	1	0	1220099999	
68	CONDITIONER	0	MISC	AA	D18201.68R	'18\2FULHCHK.MET	1	1	1	0	1220099999	
69	BLANKA 7/16/12S	1	BLK	AB	D18201.69R	\CP18\2FUELH.MET	1000	2	1	0	121980016A	02216
70	LCSA 7/16/12S	2	LCS	AB	D18201.70R	\CP18\2FUELH.MET	1000	2	1	0	121980016A	02216
71	LCSDA 7/16/12S	3	LCSD	AB	D18201.71R	\CP18\2FUELH.MET	1000	2	1	0	121980016A	02216
72	6720073S	4	T	AB	D18201.72R	\CP18\2FUELH.MET	1046	2	1	0	121980016A	02216
73	6720074S	5	T	AB	D18201.73R	\CP18\2FUELH.MET	1046	2	1	0	121980016A	02216
74	6720075S	6	T	AB	D18201.74R	\CP18\2FUELH.MET	983	2	1	0	121980016A	02216
75	6720076S	7	T	AB	D18201.75R	\CP18\2FUELH.MET	1049	2	1	0	121980016A	02216
76	6720077S	8	T	AB	D18201.76R	\CP18\2FUELH.MET	990	2	1	0	121980016A	02216
77	6720078S	9	T	AB	D18201.77R	\CP18\2FUELH.MET	985	2	1	0	121980016A	02216
78	6720079S	10	T	AB	D18201.78R	\CP18\2FUELH.MET	1009	2	1	0	121980016A	02216
79	6720080S	11	T	AB	D18201.79R	\CP18\2FUELH.MET	1049	2	1	0	121980016A	02216
80	6720081S	12	T	AB	D18201.80R	\CP18\2FUELH.MET	973	2	1	0	121980016A	02216
81	6720083S	13	T	AB	D18201.81R	\CP18\2FUELH.MET	996	2	1	0	121980016A	02216
82	6720084S	14	T	AB	D18201.82R	\CP18\2FUELH.MET	1044	2	1	0	121980016A	02216
83	2TPH31232I	15	CCAL	UV	D18201.83R	P18\2DXHCHK.MET	1	1	1	0	1220199999	
84	2FUL41232H	16	CCAL	ST	D18201.84R	'18\2FULHCHK.MET	1	1	1	0	1220199999	
85	6720085S	17	T	AB	D18201.85R	\CP18\2FUELH.MET	989	2	1	0	121980016A	02216
86	6720086S	18	T	AB	D18201.86R	\CP18\2FUELH.MET	1042	2	1	0	121980016A	02216
87	6720087S	19	T	AB	D18201.87R	\CP18\2FUELH.MET	982	2	1	0	121980016A	02216
88	6720088S	20	T	AB	D18201.88R	\CP18\2FUELH.MET	1047	2	1	0	121980016A	02216
89	6720089S	21	T	AB	D18201.89R	\CP18\2FUELH.MET	1048	2	1	0	121980016A	02216
90	6720090S	22	T	AB	D18201.90R	\CP18\2FUELH.MET	974	2	1	0	121980016A	02216
91	6720091S	23	T	AB	D18201.91R	\CP18\2FUELH.MET	1045	2	1	0	121980016A	02216
92	6720092S	24	T	AB	D18201.92R	\CP18\2FUELH.MET	1042	2	1	0	121980016A	02216
93	6720082S	25	T	AB	D18201.93R	\CP18\2FUELH.MET	970	2	1	0	121980016A	02216
94	2TPH31232I	26	CCAL	UW	D18201.94R	P18\2DXHCHK.MET	1	1	1	0	1220199999	
95	2FUL41232H	27	CCAL	SU	D18201.95R	'18\2FULHCHK.MET	1	1	1	0	1220199999	
96	BLANKA 7/18/12S	28	BLK	AB	D18201.96R	\CP18\2FUELH.MET	500	2	1	0	122000007A	06610
97	LCSA 7/18/12S	29	LCS	AB	D18201.97R	\CP18\2FUELH.MET	500	2	1	0	122000007A	06610
98	LCSDA 7/18/12S	30	LCSD	AB	D18201.98R	\CP18\2FUELH.MET	500	2	1	0	122000007A	06610
99	6722653S	31	T	AB	D18201.99R	\CP18\2FUELH.MET	485	2	1	0	122000007A	06610
100	6722654S	32	T	AB	D18201.00R	\CP18\2FUELH.MET	481	2	1	0	122000007A	06610

Back Injects

mnk 7/25/12

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\active-data\CP18\D18201.seq

Chromatography Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP18

Number of Entries: 111

	Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
101	6722655S	33	T	AB	D18201.01R	\CP18\2FUELH.MET	485	2	1	0	122000007A	06610
102	6722656S	34	T	AB	D18201.02R	\CP18\2FUELH.MET	477	2	1	0	122000007A	06610
103	6722657S	35	T	AB	D18201.03R	\CP18\2FUELH.MET	473	2	1	0	122000007A	06610
104	6722658S	36	T	AB	D18201.04R	\CP18\2FUELH.MET	475	2	1	0	122000007A	06610
105	6722674S	37	T	AB	D18201.05R	\CP18\2FUELH.MET	485	2	1	0	122000007A	06610
106	6722679S	38	T	AB	D18201.06R	\CP18\2FUELH.MET	479	2	1	0	122000007A	06610
107	6722680S	39	T	AB	D18201.07R	\CP18\2FUELH.MET	486	2	1	0	122000007A	06610
108	6722681S	40	T	AB	D18201.08R	\CP18\2FUELH.MET	486	2	1	0	122000007A	06610
109	6722682S	41	T	AB	D18201.09R	\CP18\2FUELH.MET	485	2	1	0	122000007A	06610
110	2TPH31232I	42	CCAL	UX	D18201.10R	P18\2DXHCHK.MET	1	1	1	0	1220199999	
111	2FUL41232H	43	CCAL	SV	D18201.11R	18\2FULHCHK.MET	1	1	1	0	1220199999	

Bad injection

minus

7/23/12

Set-up by: _____ Date: 7/23/12

7/23/2012

ASX73 2885

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\active-data\CP21\T21207.seq

Chromatography Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP21

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP21

Number of Entries: 56

	Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
1	BLANKA 7/21/12	1	BLK	AA	T21207.01R	\CP21\1FUELS.MET	30	5	1	0	122020029A	10941
2	LCSA 7/21/12	2	LCS	AA	T21207.02R	\CP21\1FUELS.MET	30	5	1	0	122020029A	10941
3	6720605	3	T	AA	T21207.03R	\CP21\1FUELS.MET	30.1	5	1	0	122020029A	10941
4	6720609	4	T	AA	T21207.04R	\CP21\1FUELS.MET	30.3	5	1	0	122020029A	10941
5	6720619	5	T	AA	T21207.05R	\CP21\1FUELS.MET	30.1	5	1	0	122020029A	10941
6	6720627	6	T	AA	T21207.06R	\CP21\1FUELS.MET	30.1	5	1	0	122020029A	10941
7	6720611	7	T	AA	T21207.07R	\CP21\1FUELS.MET	30.3	5	1	0	122020029A	10941
8	6720617	8	T	AA	T21207.08R	\CP21\1FUELS.MET	30.1	5	1	0	122020029A	10941
9	6720631	9	T	AA	T21207.09R	\CP21\1FUELS.MET	30.5	5	1	0	122020029A	10941
10	6720633	10	T	AA	T21207.10R	\CP21\1FUELS.MET	30.3	5	1	0	122020029A	10941
11	6720623DF10	11	T	AB	T21207.11R	\CP21\1FUELS.MET	30	50	1	0	122020029A	10941
12	6720629DF10	12	T	AB	T21207.12R	\CP21\1FUELS.MET	30.3	50	1	0	122020029A	10941
13	6720613	13	T	AA	T21207.13R	\CP21\1FUELS.MET	30.1	5	1	0	122020029A	10941
14	6720621	14	T	AA	T21207.14R	\CP21\1FUELS.MET	30.1	5	1	0	122020029A	10941
15	TPH_31232F	15	CCAL	CB	T21207.15R	.CP21\DXSSTD.MET	1	1	1	0	1220599999	
16	1FUL31232G	16	CCAL	DW	T21207.16R	›21\1FULSCHK.MET	1	1	1	0	1220599999	
17	6720603DF25	17	T	AB	T21207.17R	\CP21\1FUELS.MET	30.3	125	1	0	122020029A	10941
18	6720615DF25	18	T	AB	T21207.18R	\CP21\1FUELS.MET	30.2	125	1	0	122020029A	10941
19	6720607	19	T	AA	T21207.19R	\CP21\1FUELS.MET	30.3	5	1	0	122020029A	10941
20	6720625	20	T	AA	T21207.20R	\CP21\1FUELS.MET	30.1	5	1	0	122020029A	10941
21	MECL2	21	MISC	AA	T21207.21R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
22	6720601	22	T	AA	T21207.22R	\CP21\1FUELS.MET	30	5	1	0	122020029A	10941
23	6720601 7/21/12	23	DUP	AA	T21207.23R	\CP21\1FUELS.MET	30.2	5	1	0	122020029A	10941
24	6720601MS	24	MS	AA	T21207.24R	\CP21\1FUELS.MET	30.1	5	1	0	122020029A	10941
25	MECL2	25	MISC	AA	T21207.25R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
26	TPH_31232F	26	CCAL	CC	T21207.26R	.CP21\DXSSTD.MET	1	1	1	0	1220599999	
27	1FUL31232G	27	CCAL	DX	T21207.27R	›21\1FULSCHK.MET	1	1	1	0	1220599999	
28	BLANKA 7/19/12	28	BLK	AA	T21207.28R	\CP21\1FUELS.MET	30	5	1	0	122000026A	10941
29	LCSA 7/19/12	29	LCS	AA	T21207.29R	\CP21\1FUELS.MET	30	5	1	0	122000026A	10941
30	6721507	30	T	AA	T21207.30R	\CP21\1FUELS.MET	30.1	5	1	0	122000026A	10941
31	6722045	31	T	AA	T21207.31R	\CP21\1FUELS.MET	30.2	5	1	0	122000026A	10941
32	6722046	32	T	AA	T21207.32R	\CP21\1FUELS.MET	30	5	1	0	122000026A	10941
33	6722044	33	T	AA	T21207.33R	\CP21\1FUELS.MET	30.1	5	1	0	122000026A	10941
34	6721503	34	T	AA	T21207.34R	\CP21\1FUELS.MET	30.1	5	1	0	122000026A	10941
35	MECL2	35	MISC	AA	T21207.35R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
36	6722361DF50	36	T	AB	T21207.36R	\CP21\1FUELS.MET	30	250	1	0	122000026A	10941
37	6722362DF50	37	T	AB	T21207.37R	\CP21\1FUELS.MET	30	250	1	0	122000026A	10941
38	TPH_31232F	38	CCAL	CD	T21207.38R	.CP21\DXSSTD.MET	1	1	1	0	1220599999	
39	1FUL31232G	39	CCAL	DY	T21207.39R	›21\1FULSCHK.MET	1	1	1	0	1220599999	
40	6722363DF10	40	T	AB	T21207.40R	\CP21\1FUELS.MET	30.1	50	1	0	122000026A	10941
41	6722686DF50	41	T	AB	T21207.41R	\CP21\1FUELS.MET	30	250	1	0	122000026A	10941
42	MECL2	42	MISC	AA	T21207.42R	.CP21\DXSSTD.MET	1	1	1	0	1220499999	
43	6721497DF50	43	T	AB	T21207.43R	\CP21\1FUELS.MET	30.1	250	1	0	122000026A	10941
44	6721497 7/19/12DF50	44	DUP	AB	T21207.44R	\CP21\1FUELS.MET	30.4	250	1	0	122000026A	10941
45	6721497MSDF50	45	MS	AB	T21207.45R	\CP21\1FUELS.MET	30.1	250	1	0	122000026A	10941
46	6720601DF10	1	T	AB	T21207.46R	\CP21\1FUELS.MET	30	50	1	0	122020029A	10941
47	6720601 7/21/12DF10	2	DUP	AB	T21207.47R	\CP21\1FUELS.MET	30.2	50	1	0	122020029A	10941
48	6720613DF2	3	T	AB	T21207.48R	\CP21\1FUELS.MET	30.1	10	1	0	122020029A	10941
49	6722686DF5	4	T	AC	T21207.49R	\CP21\1FUELS.MET	30	25	1	0	122000026A	10941
50	TPH_31232F	5	CCAL	CE	T21207.50R	.CP21\DXSSTD.MET	1	1	1	0	1220599999	

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CHROM PERFECT SEQUENCE FILE

Sequence File: \\Uslan-chromperf\active-data\CP21\T21207.seq

Chromatography Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP21

Method Directory: \\USLAN-CHROMPERF\ACTIVE-DATA\CP21

Number of Entries: 56

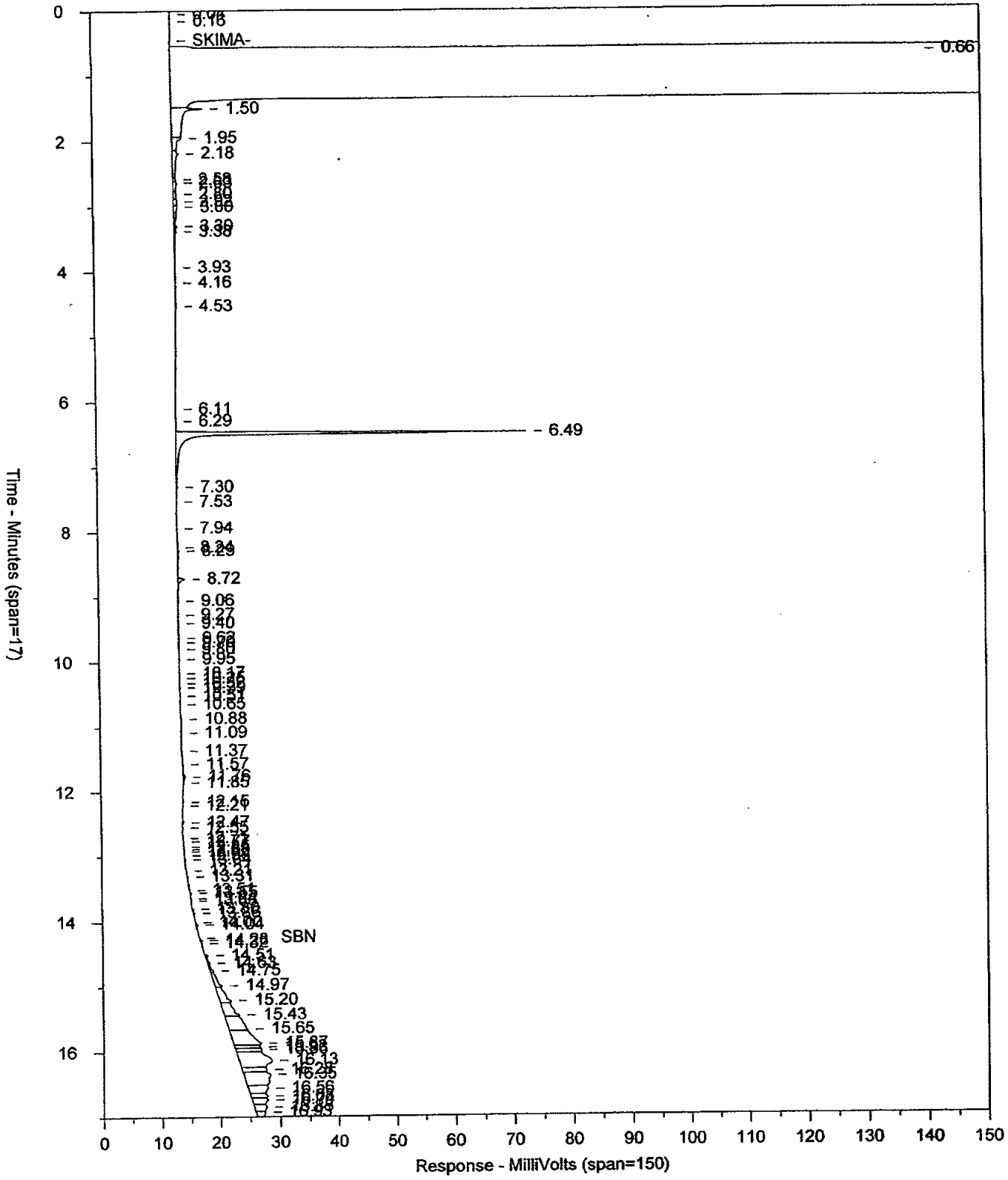
	Samplename	VP	Code	ID	FileName	Method	Samp Amt	DF	Int Std	C	Batch Number	Analysis
51	1FUL31232G	6	CCAL	DZ	T21207.51R	'21\1FULSCHK.MET	1	1	1	0	1220599999	
52	6721497DF10	7	T	AC	T21207.52R	\CP21\1FUELS.MET	30.1	50	1	0	122000026A	10941
53	6721497 7/19/12DF10	8	DUP	AC	T21207.53R	\CP21\1FUELS.MET	30.4	50	1	0	122000026A	10941
54	6721497MSDF10	9	MS	AC	T21207.54R	\CP21\1FUELS.MET	30.1	50	1	0	122000026A	10941
55	TPH_31232F	10	CCAL	CR	T21207.55R	.CP21\DXSSTD.MET	1	1	1	0	1220799999	
56	1FUL31232G	11	CCAL	EF	T21207.56R	'21\1FULSCHK.MET	1	1	1	0	1220799999	

Set-up by: Tracy A. Coll Date: 7-26-12

7/26/2012

ASX73 2987

CAPR11232B AACAPR1AA ICAL 1219299999 SW-846 8015B
D18193.0005.RAW



Sample Number: CAPR11232B AACAPR1AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 9:50:22 AM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	3.00	0.16	7357.049
Capric Acid	6.49	6.23	147014.5
O-terphenyl	10.32	0.00	117.6777
C28	13.55	0.01	520.7797

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	182978

RESULTS

DRO C10-C28 AREA = 182978

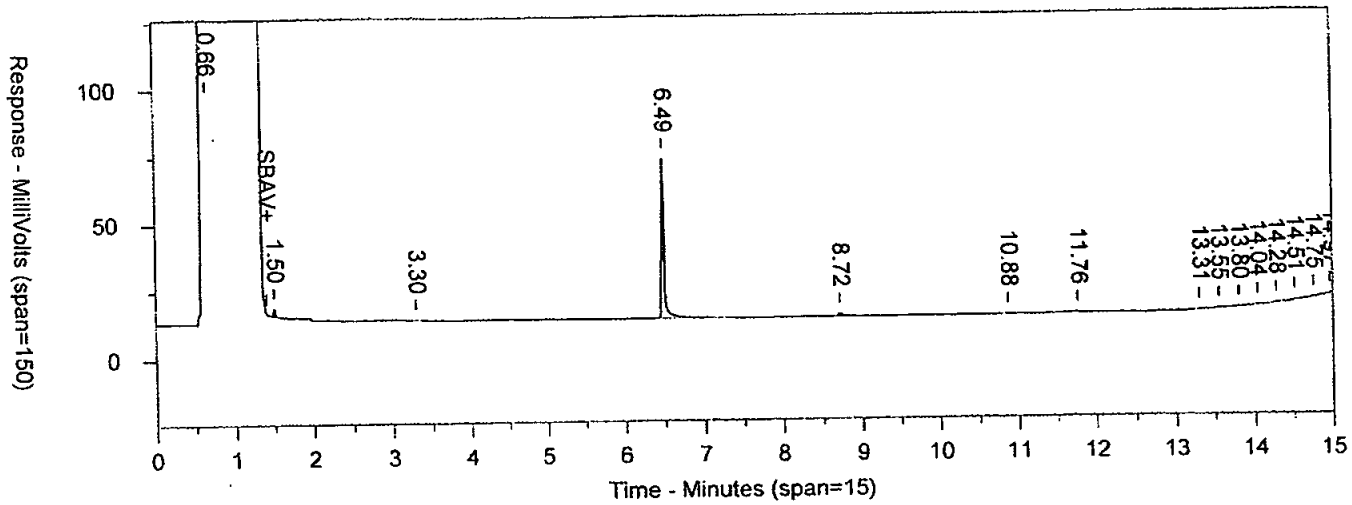
Prelim DRO AMOUNT = 5.15 PPM

#2 FUEL LEVEL 4 %D = -99.79%

Area File: D18193.0005.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 10:07:43 AM
File Reported On: 7/12/2012 at 9:04:23 AM

ASX73 2889

CAPR11232B AACAPR1AA ICAL 1219299999 D18193.0005.RAWSW-846 8015B



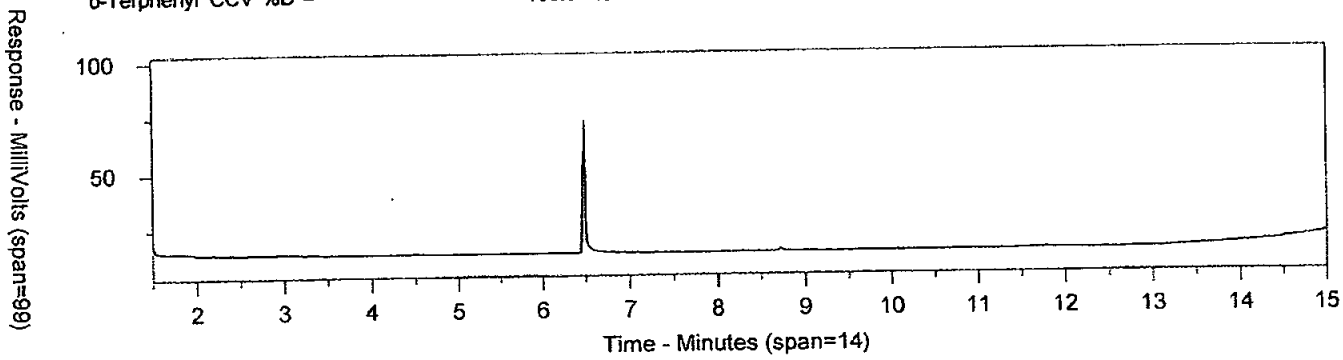
Sample Number: CAPR11232B AACAPR1AA ICAL 1219299999
Injected On: 7/11/2012 9:50:22 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: 1SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
Capric Acid	6.49	670.8837	141805.1
C28	13.55	0.0160	677.9852

1000 mL WW & SW o-Terphenyl Recovery =0.0 %
500 mL WW o-Terphenyl Recovery = 0.0 %
o-Terphenyl CCV %D = -100.0 %

1000 ML CAPRIC ACID % RECOVERY = 0.1 %
500 ML CAPRIC ACID % RECOVERY = 0.3 %

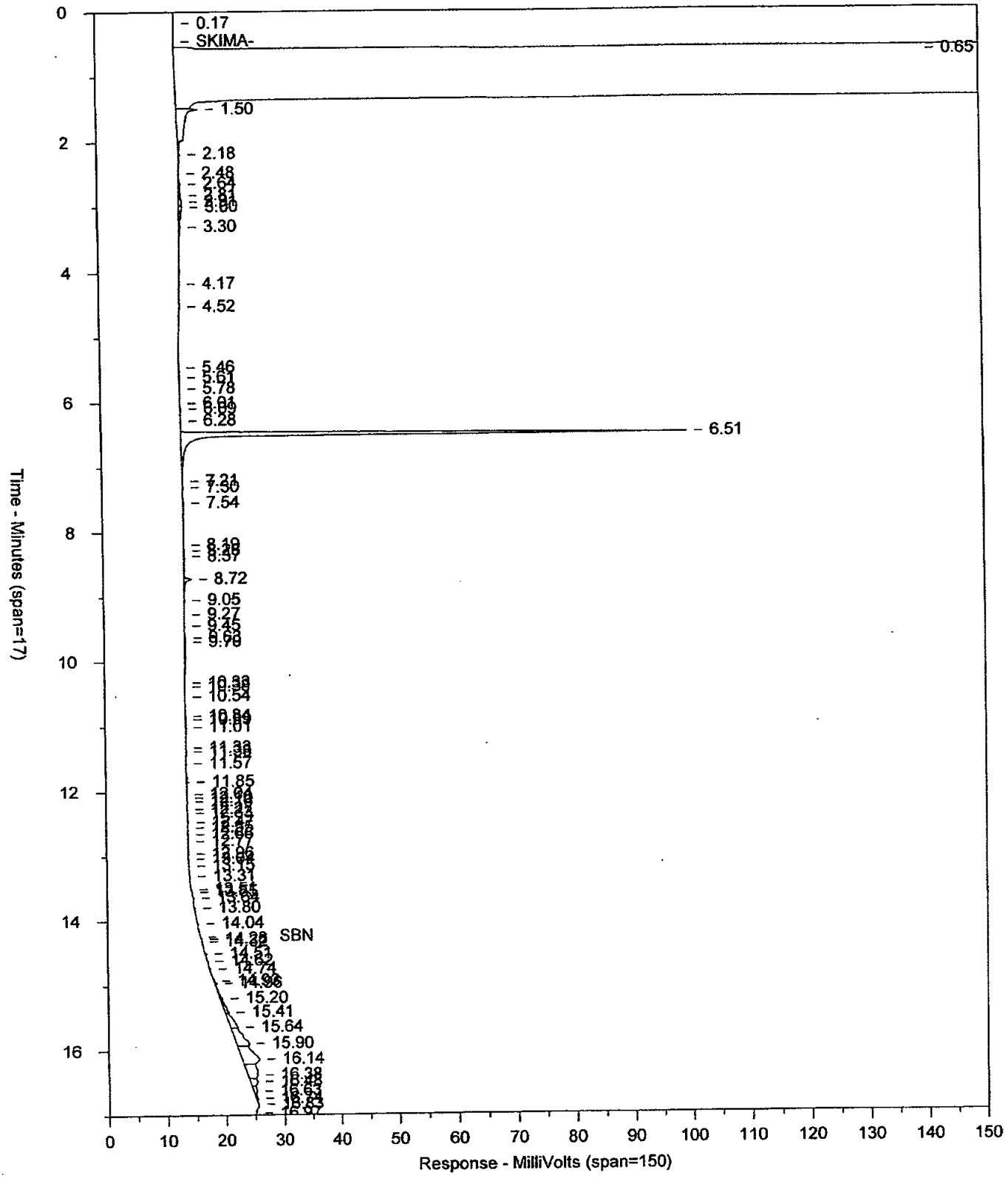


Area File: D18193.0005.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/11/2012 10:07:43 AM
File Reported On: 7/12/2012 at 9:05:35 AM

ASX73 2919

CAPR21232C AACAPR2AA ICAL 1219299999 SW-846 8015B
D18193.0006.RAW



ASX73 2011

Sample Number: CAPR21232C AACAPR2AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 10:13:01 AM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	3.00	0.14	6315.74
Capric Acid	6.51	10.22	240872.3
O-terphenyl	10.33	0.00	74.23121
C28	13.55	0.00	108.1187

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	276967

RESULTS

DRO C10-C28 AREA = 276967

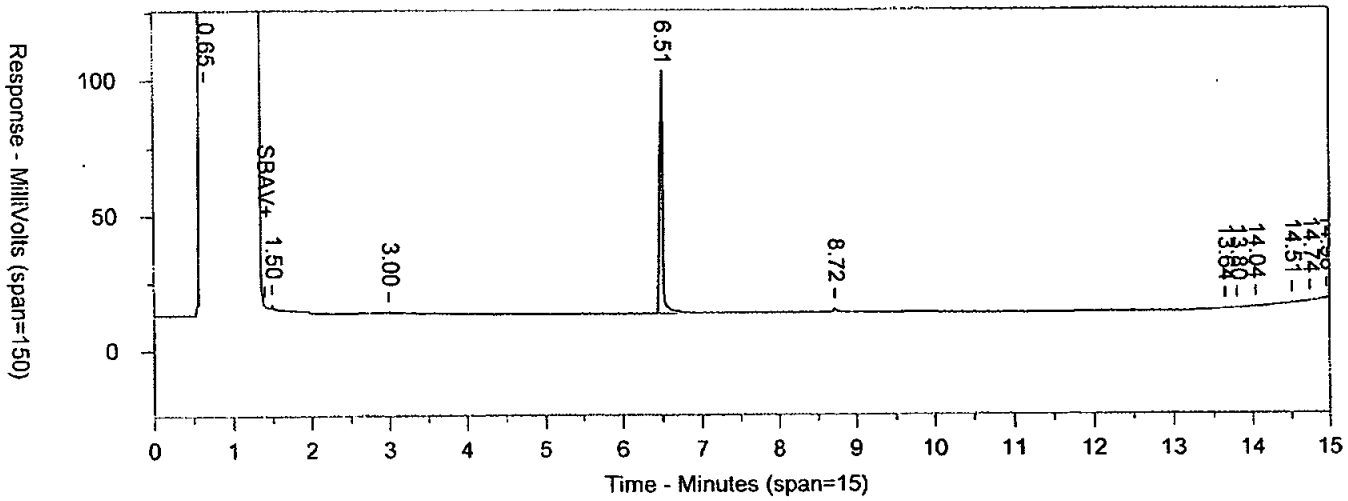
Prelim DRO AMOUNT = 7.80 PPM

#2 FUEL LEVEL 4 %D = -99.69%

Area File: D18193.0006.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 10:30:22 AM
File Reported On: 7/12/2012 at 9:04:27 AM

ASX73 2012

CAPR21232C AACAPR2AA ICAL 1219299999 D18193.0006.RAWSW-846 8015B



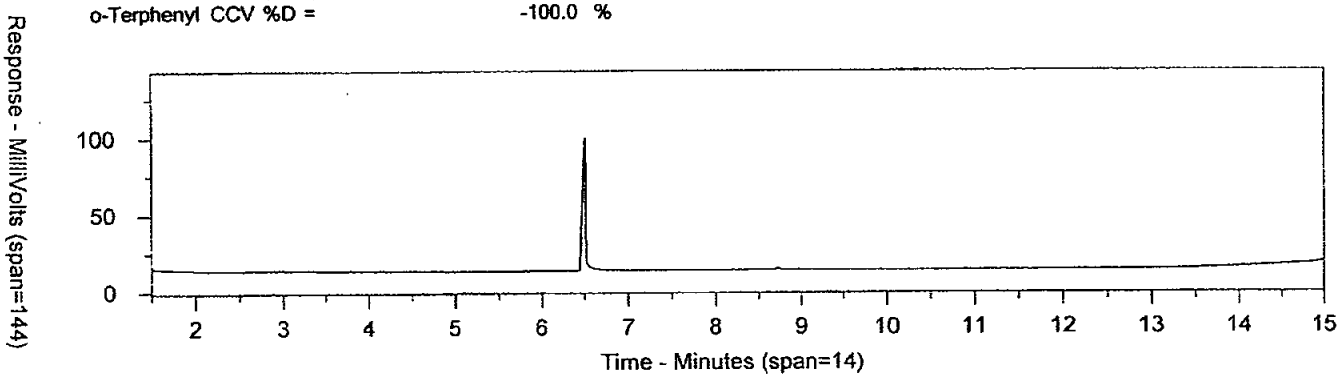
Sample Number: CAPR21232C AACAPR2AA ICAL 1219299999
Injected On: 7/11/2012 10:13:01 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: 1SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	3.00	0.1347	6172.535
Capric Acid	6.51	1136.6370	240251.7
C28	13.64	0.0287	1213.478

1000 mL WW & SW o-Terphenyl Recovery =0.0 %
500 mL WW o-Terphenyl Recovery = 0.0 %
o-Terphenyl CCV %D = -100.0 %

1000 ML CAPRIC ACID % RECOVERY = 0.2 %
500 ML CAPRIC ACID % RECOVERY = 0.5 %

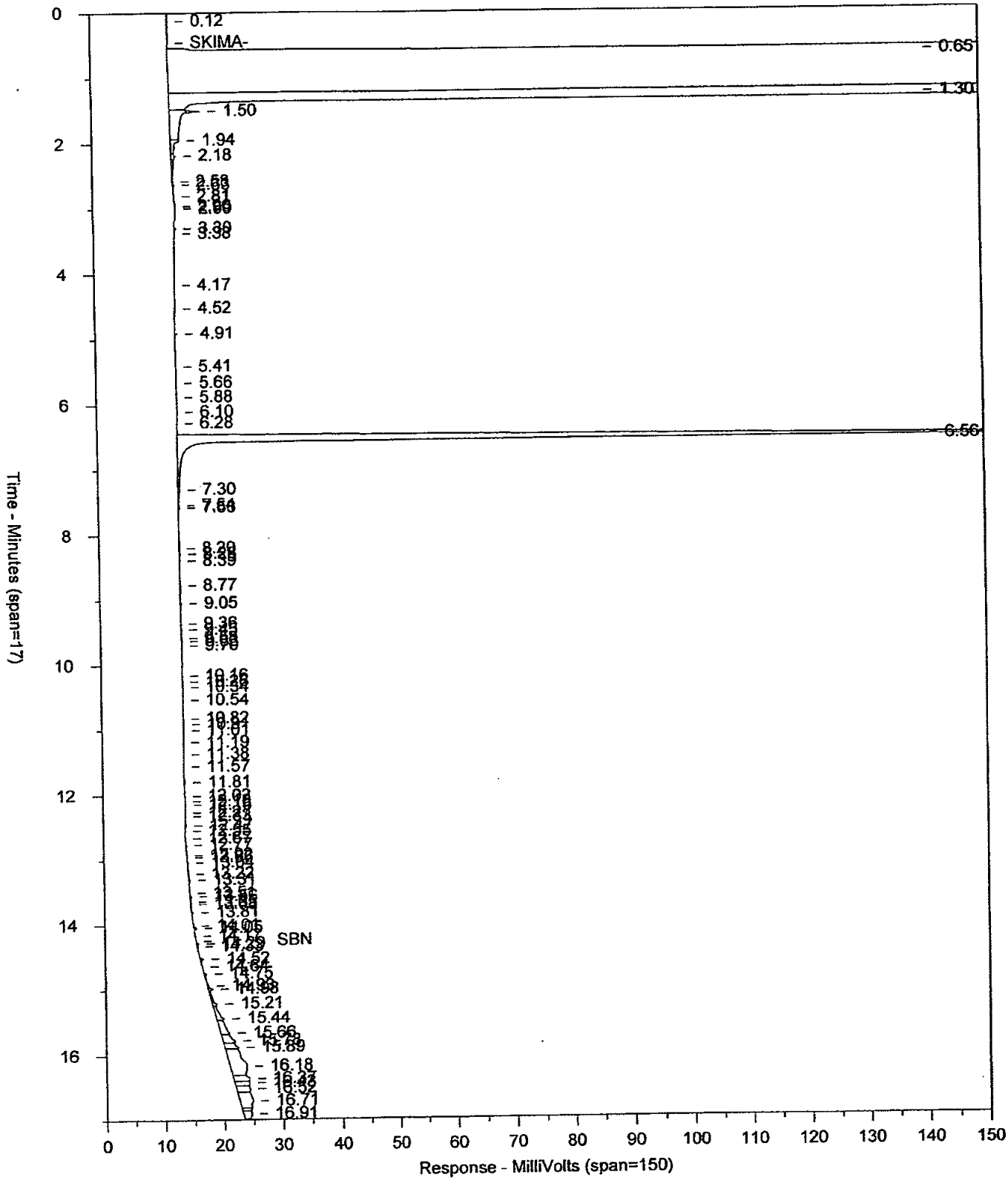


Area File: D18193.0006.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/11/2012 10:30:22 AM
File Reported On: 7/12/2012 at 9:05:41 AM

ASX73 2013

CAPR31232B AACAPR3AA ICAL 1219299999 SW-846 8015B
D18193.0007.RAW



ASX73 2014

Sample Number: CAPR31232B AACAPR3AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 10:35:46 AM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.96	0.02	965.0784
Capric Acid	6.56	28.38	669258.4
O-terphenyl	10.34	0.01	338.5044
C28	13.56	0.02	832.3412

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	693867

RESULTS

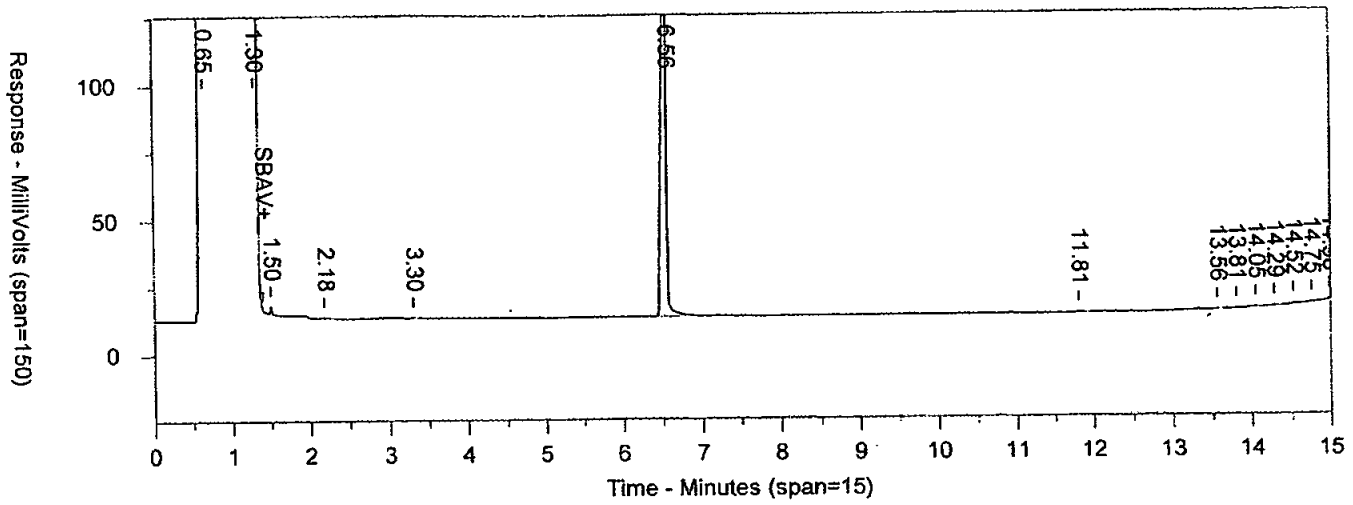
DRO C10-C28 AREA = 693867

Prelim DRO AMOUNT = 19.54 PPM

#2 FUEL LEVEL 4 %D = -99.22%

Area File: D18193.0007.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 10:53:06 AM
File Reported On: 7/12/2012 at 9:04:31 AM

CAPR31232B AACAPR3AA ICAL 1219299999 D18193.0007.RAWSW-846 8015B



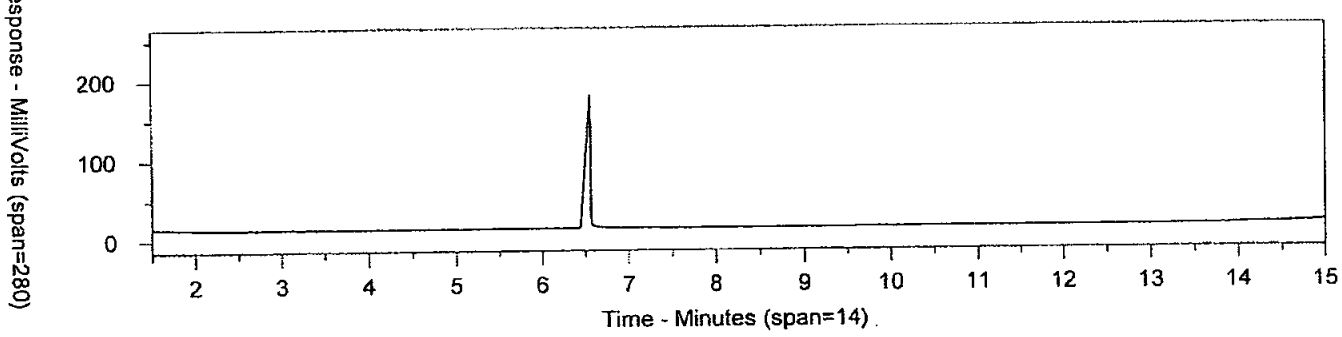
Sample Number: CAPR31232B AACAPR3AA ICAL 1219299999
Injected On: 7/11/2012 10:35:46 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: 1SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
Capric Acid	6.56	3137.9980	663280.7
C28	13.56	0.0159	671.5867

1000 mL WW & SW o-Terphenyl Recovery =0.0 %
500 mL WW o-Terphenyl Recovery = 0.0 %
o-Terphenyl CCV %D = -100.0 %

1000 ML CAPRIC ACID % RECOVERY = 0.6 %
500 ML CAPRIC ACID % RECOVERY = 1.3 %

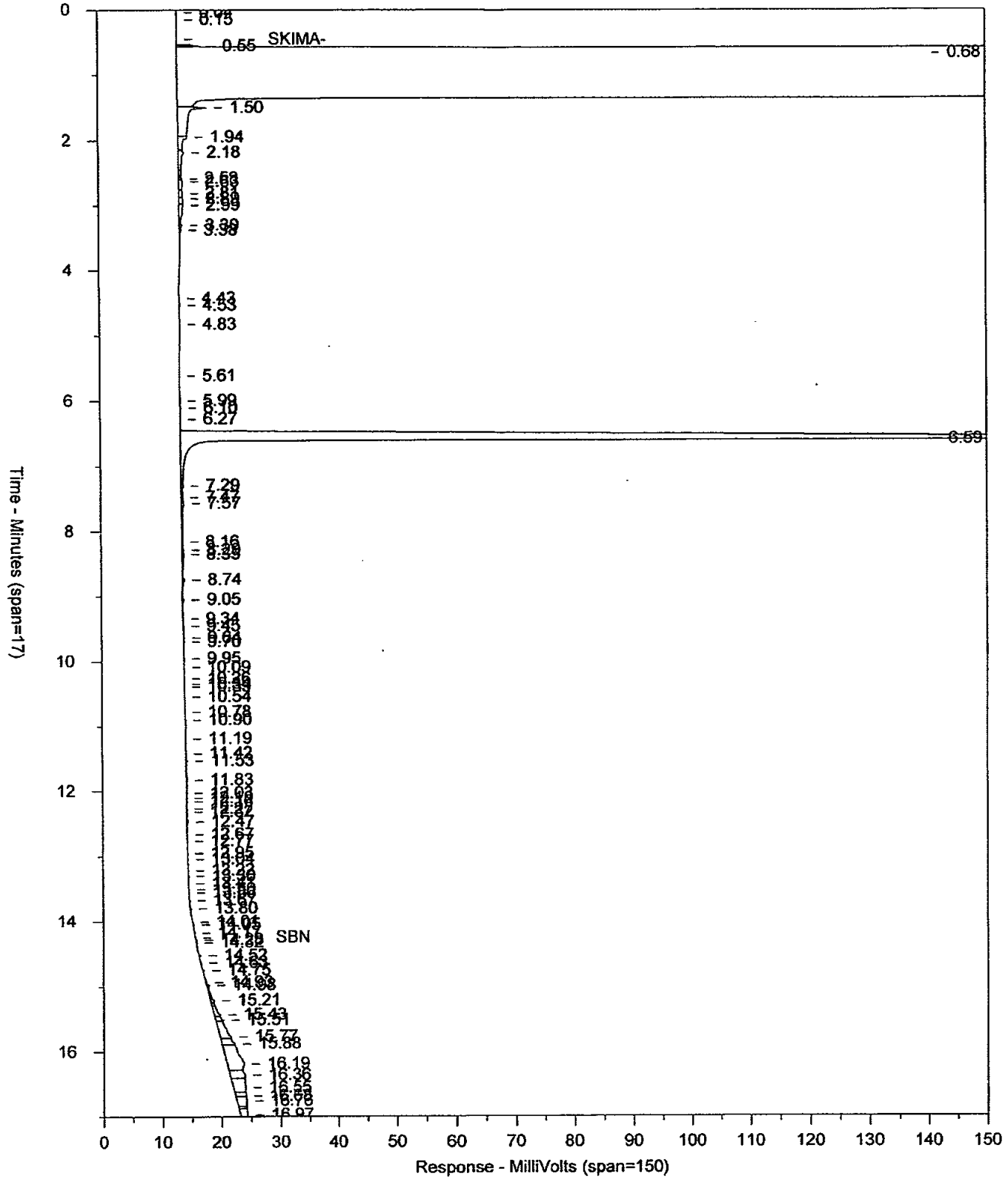


Area File: D18193.0007.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/11/2012 10:53:06 AM
File Reported On: 7/12/2012 at 9:05:47 AM

ASX73 2816

CAPR41232B AACAPR4AA ICAL 1219299999 SW-846 8015B
D18193.0008.RAW



ASX73 2917

Sample Number: CAPR41232B AACAPR4AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 10:58:26 AM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.99	0.17	7720.215
Capric Acid	6.59	46.27	1091060
O-terphenyl	10.34	0.00	126.2032
C28	13.56	0.01	249.2393

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	1134677

RESULTS

DRO C10-C28 AREA = 1134677

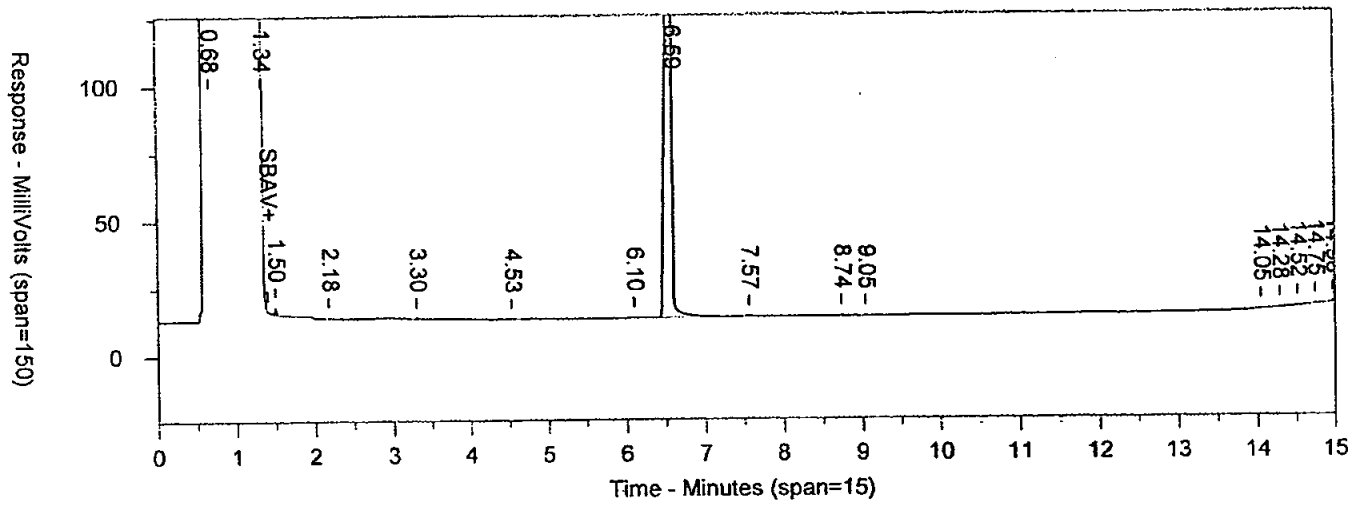
Prelim DRO AMOUNT = 31.96 PPM

#2 FUEL LEVEL 4 %D = -98.72%

Area File: D18193.0008.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 11:15:46 AM
File Reported On: 7/12/2012 at 9:04:35 AM

ASX73 2010

CAPR41232B AACAPR4AA ICAL 1219299999 D18193.0008.RAWSW-846 8015B



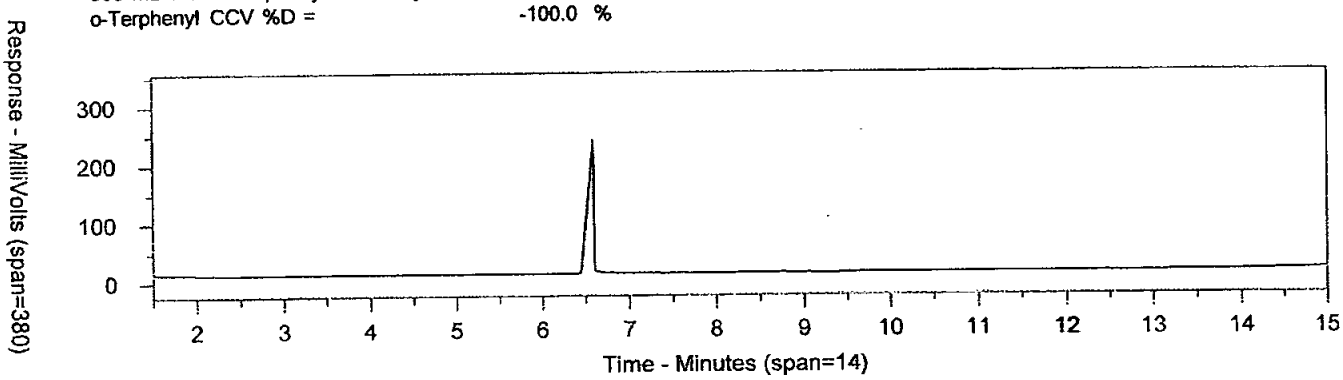
Sample Number: CAPR41232B AACAPR4AA ICAL 1219299999
Injected On: 7/11/2012 10:58:26 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: 1SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
Capric Acid	6.59	5129.4390	1084213

1000 mL WW & SW o-Terphenyl Recovery =0.0 %
500 mL WW o-Terphenyl Recovery = 0.0 %
o-Terphenyl CCV %D = -100.0 %

1000 ML CAPRIC ACID % RECOVERY = 1.0 %
500 ML CAPRIC ACID % RECOVERY = 2.1 %

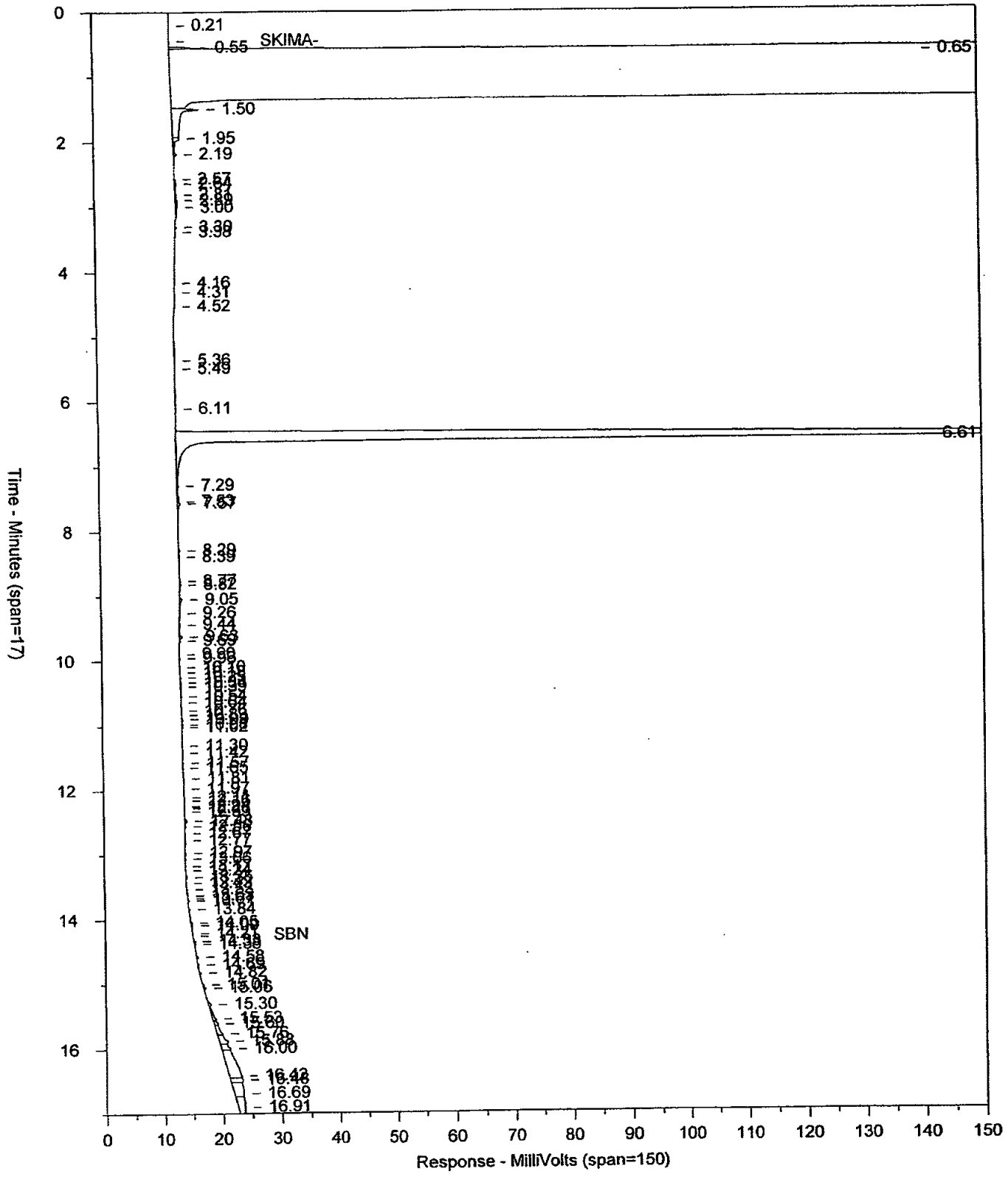


Area File: D18193.0008.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/11/2012 11:15:46 AM
File Reported On: 7/12/2012 at 9:05:53 AM

ASX73 2819

CAPR51232B AACAPR5AA ICAL 1219299999 SW-846 8015B
D18193.0009.RAW



ASX73 2828

Sample Number: CAPR51232B AACAPR5AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 11:48:44 AM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	3.00	0.02	906.5906
Capric Acid	6.61	55.24	1302471
O-terphenyl	10.34	0.01	371.8246
C28	13.53	0.01	334.2653

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	1333092

RESULTS

DRO C10-C28 AREA = 1333092

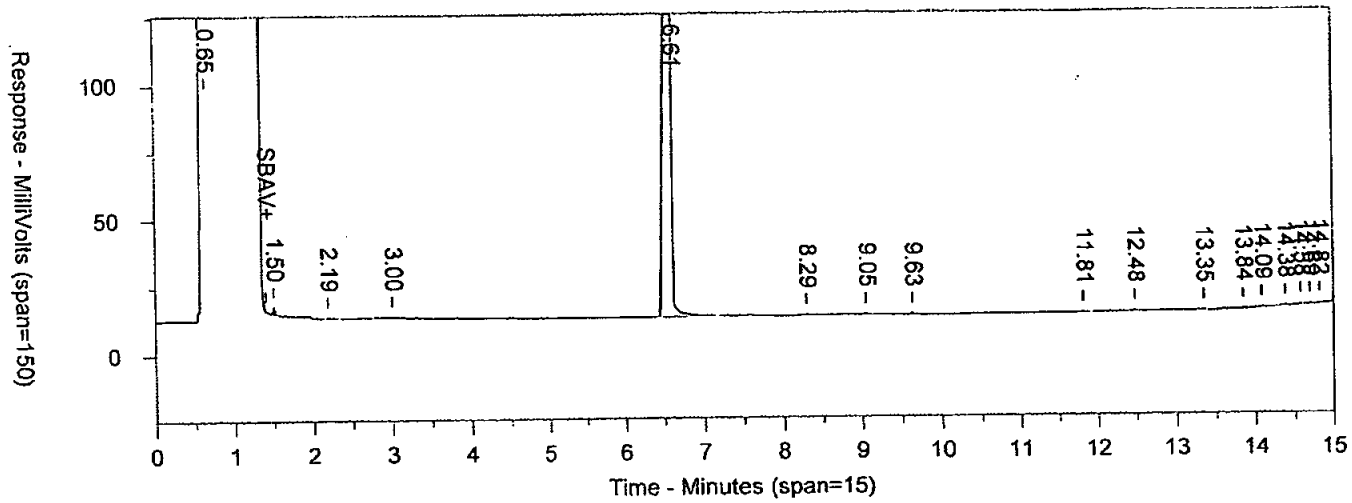
Prelim DRO AMOUNT = 37.55 PPM

#2 FUEL LEVEL 4 %D = -98.50%

Area File: D18193.0009.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 12:06:05 PM
File Reported On: 7/12/2012 at 9:04:39 AM

ASX73 2021

CAPR51232B AACAPR5AA ICAL 1219299999 D18193.0009.RAWSW-846 8015B



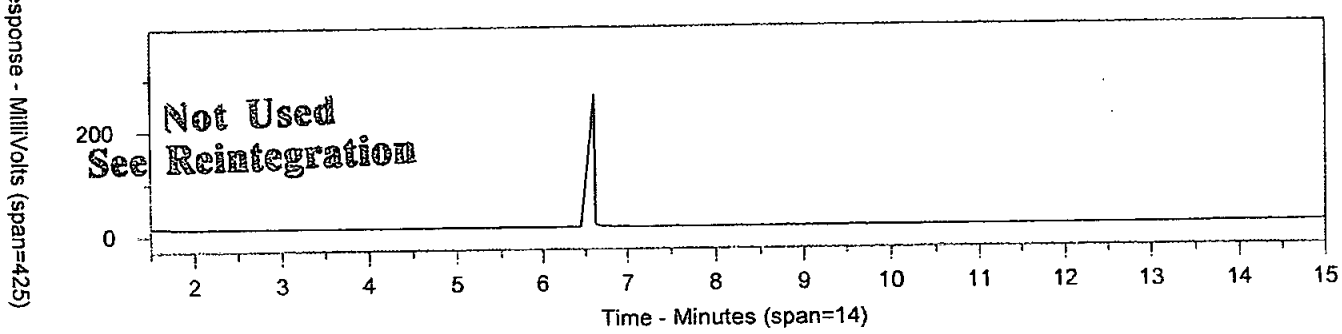
Sample Number: CAPR51232B AACAPR5AA ICAL 1219299999
Injected On: 7/11/2012 11:48:44 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: 1SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	3.00	0.0585	2680.122

1000 mL WW & SW o-Terphenyl Recovery =0.0 %
500 mL WW o-Terphenyl Recovery = 0.0 %
o-Terphenyl CCV %D = -100.0 %

1000 ML CAPRIC ACID % RECOVERY = 0.0 %
500 ML CAPRIC ACID % RECOVERY = 0.0 %

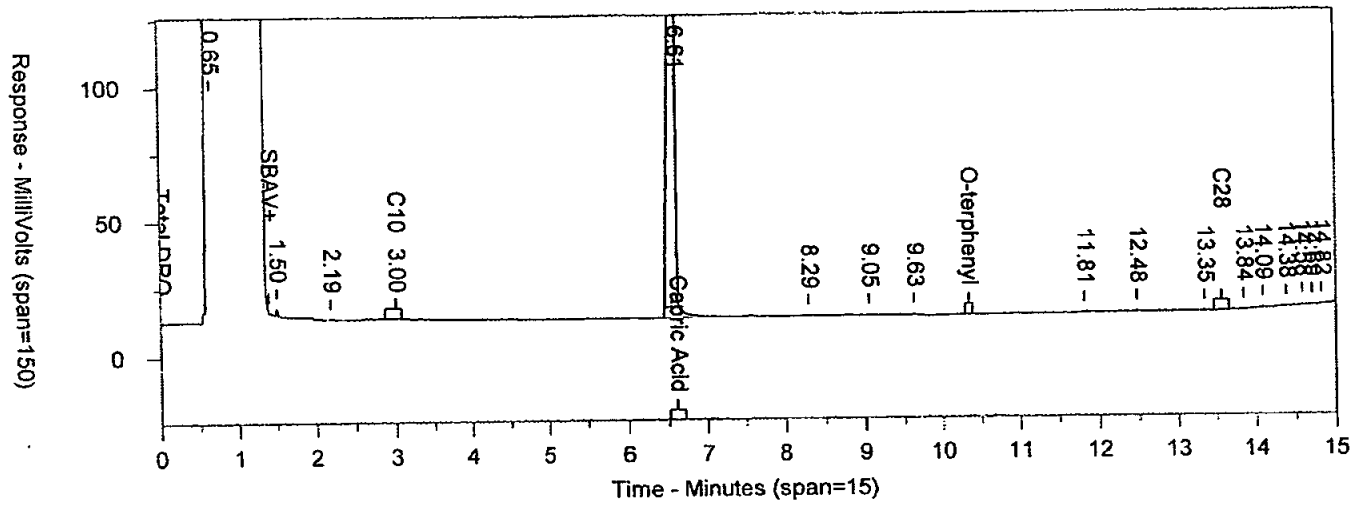


Area File: D18193.0009.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/11/2012 12:06:05 PM
File Reported On: 7/12/2012 at 9:05:59 AM

ASX73 2922

CAPR51232B **AACAPR5AA** **ICAL 1219299999** **D18193.0009.RAWSW-846 8015B**



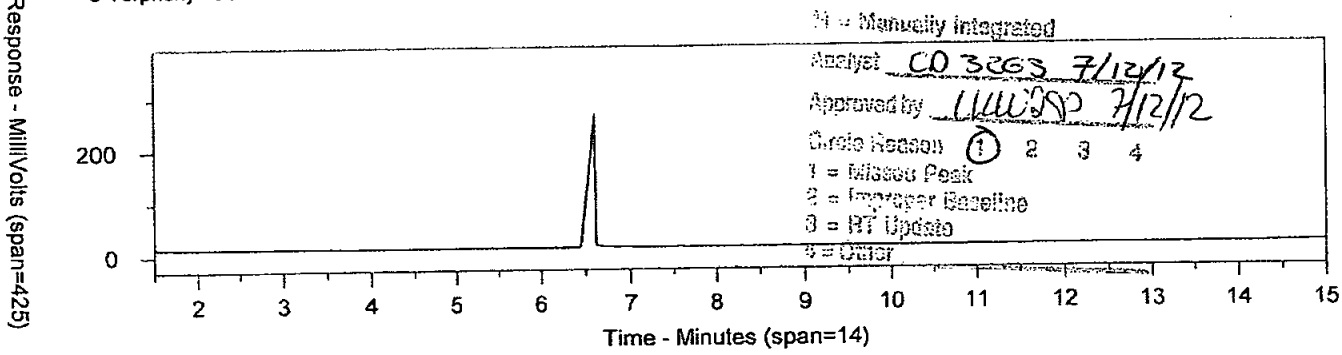
Sample Number: CAPR51232B AACAPR5AA ICAL 1219299999
Injected On: 7/11/2012 11:48:44 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: 1SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	3.00	0.0585	2680.122
Capric Acid	6.61	6142.0870	1298257m

1000 mL WW & SW o-Terphenyl Recovery =0.0 %
500 mL WW o-Terphenyl Recovery = 0.0 %
o-Terphenyl CCV %D = -100.0 %

1000 ML CAPRIC ACID % RECOVERY = 1.2 %
500 ML CAPRIC ACID % RECOVERY = 2.5 %



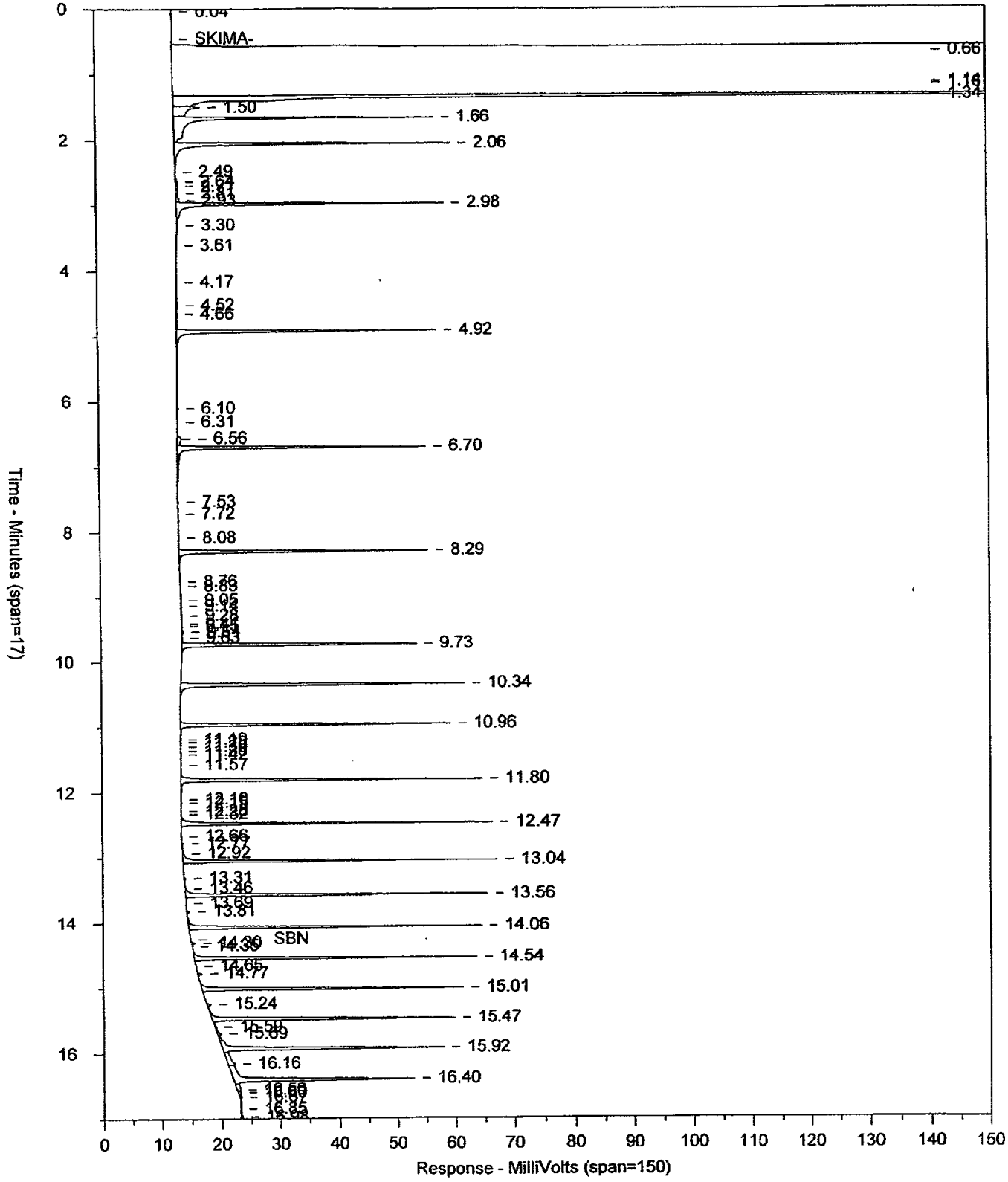
m = Manually Integrated
Analyst CO 3263 7/12/12
Approved by [illegible] 7/12/12
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

Area File: D18193.0009.BND
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/12/2012 9:29:54 AM
File Reported On: 7/12/2012 at 9:29:59 AM

ASX73 2823

2TPH11232B AA2TPH1AA ICAL 1219299999 SW-846 8015B
D18193.0010.RAW



ASX73 2024

Sample Number: 2TPH11232B AA2TPH1AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 12:11:14 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.98	1.83	83723.78
Capric Acid	6.56	0.22	5153.052
O-terphenyl	10.34	2.24	91284.7
C28	13.56	1.80	76245.22

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	912336

RESULTS

DRO C10-C28 AREA = 912336

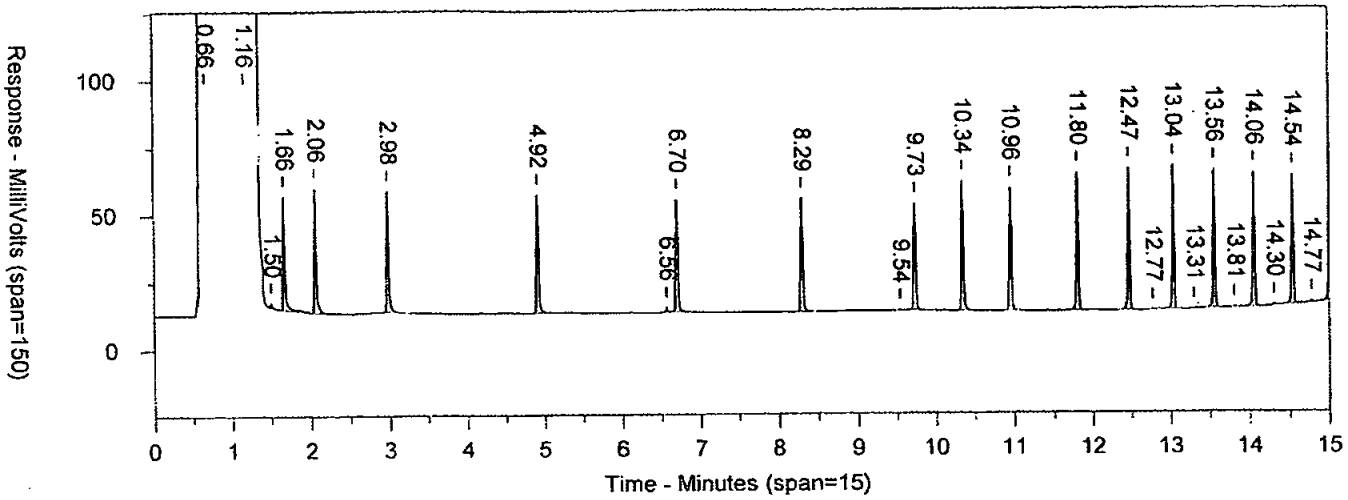
Prelim DRO AMOUNT = 25.70 PPM

#2 FUEL LEVEL 4 %D = -98.97%

Area File: D18193.0010.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 12:28:35 PM
File Reported On: 7/12/2012 at 9:04:43 AM

08X73 2825

2TPH11232B AA2TPH1AA ICAL 1219299999 D18193.0010.RAW SW-846 8015B



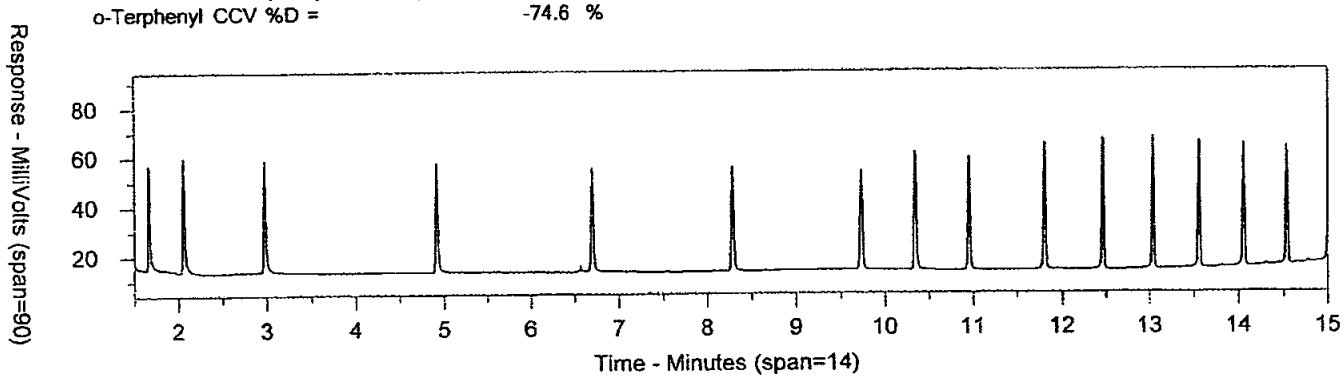
Sample Number: 2TPH11232B AA2TPH1AA ICAL 1219299999
Injected On: 7/11/2012 12:11:14 PM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.98	1.7113	78413.18
Capric Acid	6.56	10.8138	2285.729
O-terphenyl	10.34	2.0330	91284.7
C28	13.56	1.7763	75185.44

1000 mL WW & SW o-Terphenyl Recovery =16.9 %
500 mL WW o-Terphenyl Recovery = 33.9 %
o-Terphenyl CCV %D = -74.6 %

1000 ML CAPRIC ACID % RECOVERY = 0.0 %
500 ML CAPRIC ACID % RECOVERY = 0.0 %

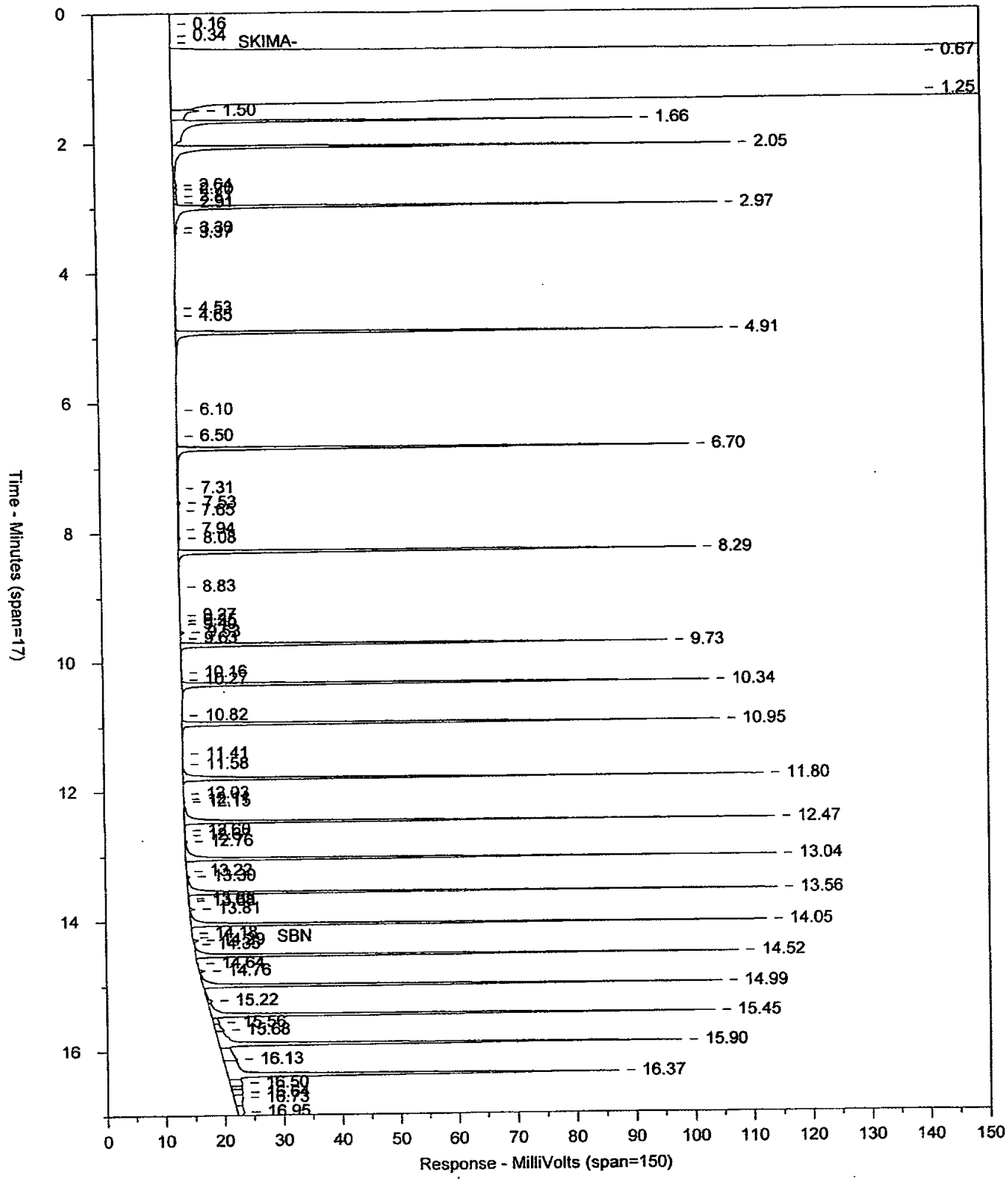


Area File: D18193.0010.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/11/2012 12:28:35 PM
File Reported On: 7/12/2012 at 9:06:05 AM

ASX73 2026

2TPH21232B AA2TPH2AA ICAL 1219299999 SW-846 8015B
D18193.0011.RAW



ASX73 2827

Sample Number: 2TPH21232B AA2TPH2AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 12:34:01 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	3.64	166996.9
Capric Acid	6.50	0.02	294.3574
O-terphenyl	10.34	3.94	164444.6
C28	13.56	3.55	150139.2

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	1765873

RESULTS

DRO C10-C28 AREA = 1765873

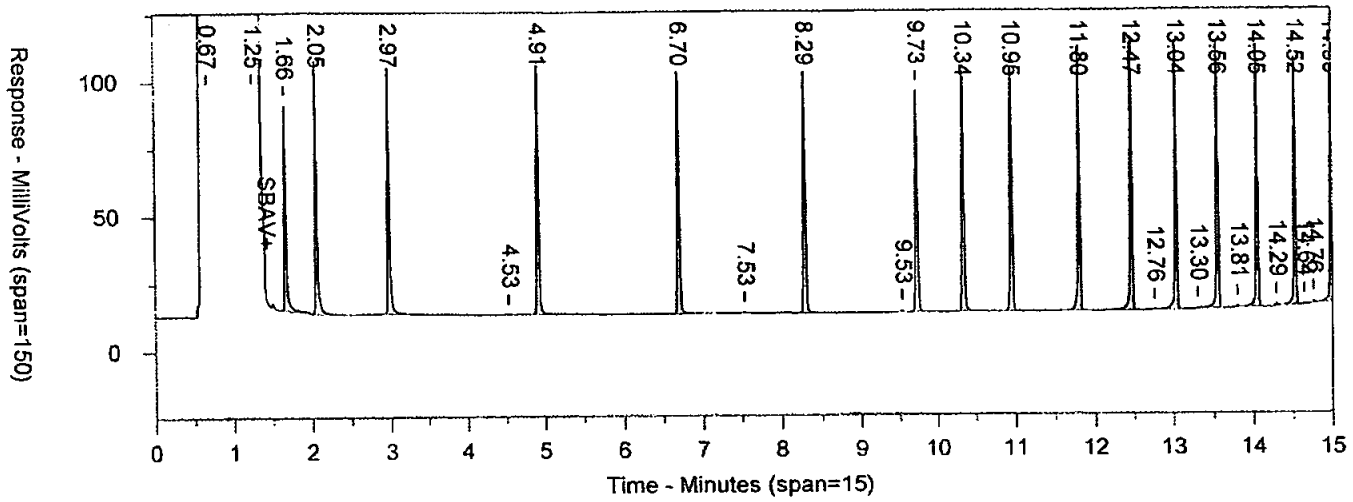
Prelim DRO AMOUNT = 49.74 PPM

#2 FUEL LEVEL 4 %D = -98.01%

Area File: D18193.0011.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 12:51:22 PM
File Reported On: 7/12/2012 at 9:04:49 AM

ASX73 2628

2TPH21232B AA2TPH2AA ICAL 1219299999 D18193.0011.RAW SW-846 8015B



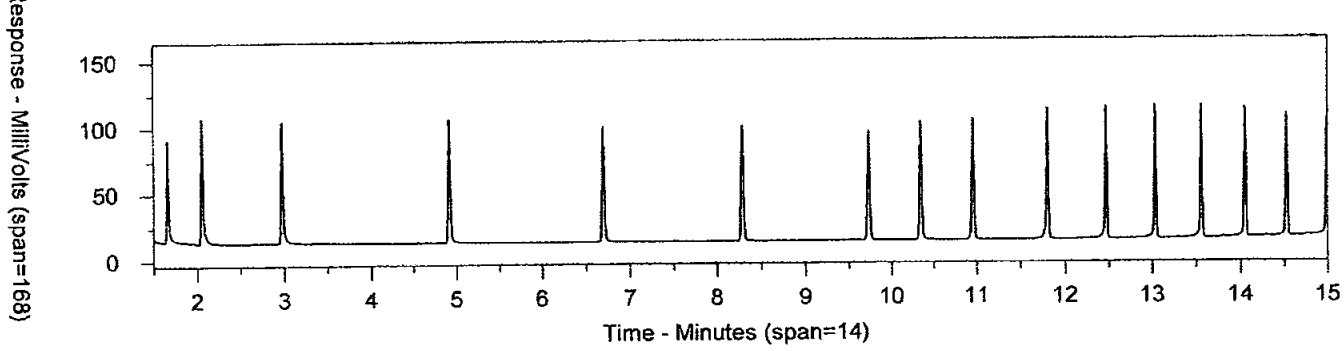
Sample Number: 2TPH21232B AA2TPH2AA ICAL 1219299999
Injected On: 7/11/2012 12:34:01 PM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	3.4516	158150.4
O-terphenyl	10.34	3.7058	166394.8
C28	13.56	3.5167	148848

1000 mL WW & SW o-Terphenyl Recovery =30.9 %
500 mL WW o-Terphenyl Recovery = 61.8 %
o-Terphenyl CCV %D = -53.7 %

1000 ML CAPRIC ACID % RECOVERY = 0.0 %
500 ML CAPRIC ACID % RECOVERY = 0.0 %

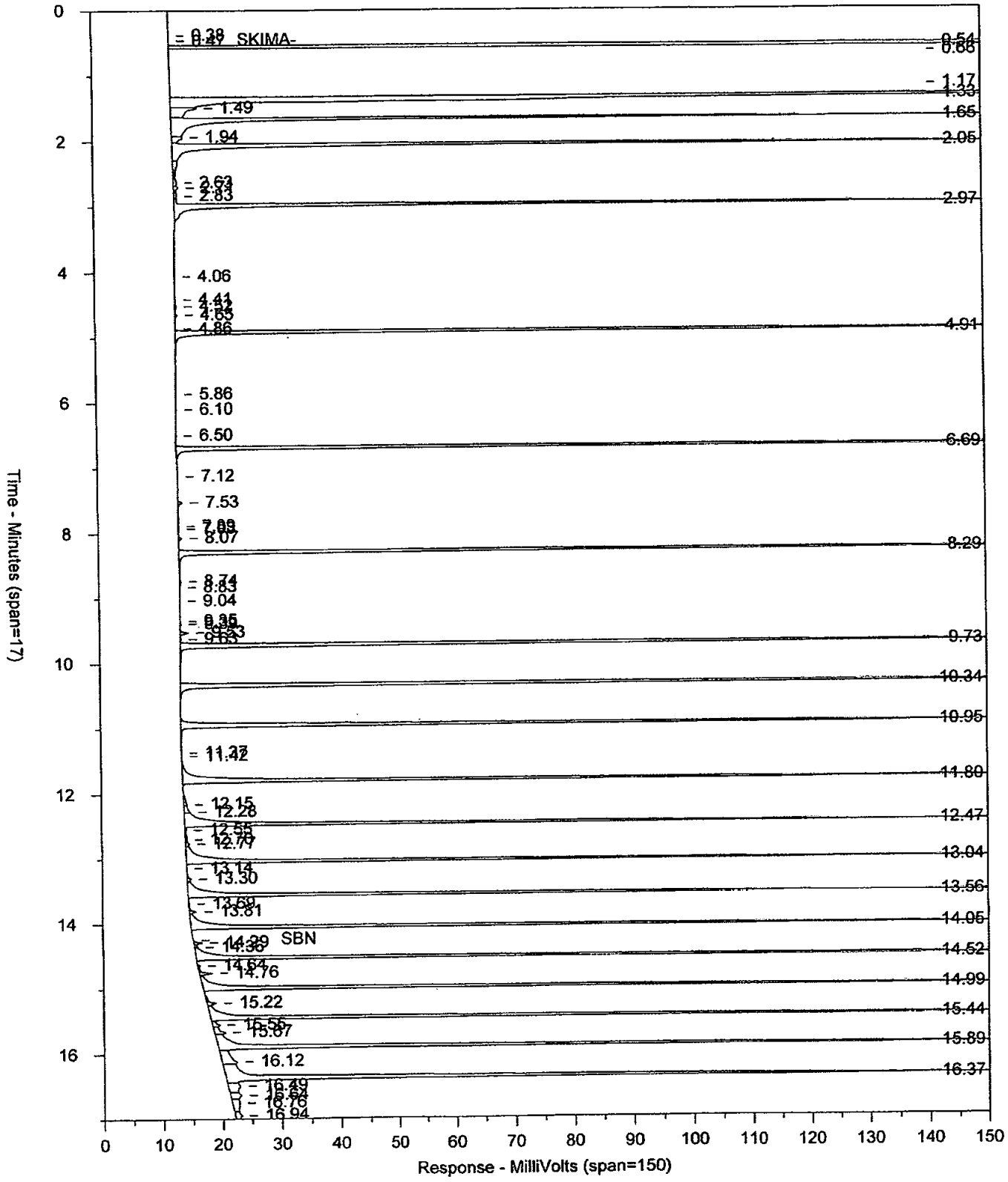


Area File: D18193.0011.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/11/2012 12:51:22 PM
File Reported On: 7/12/2012 at 9:06:11 AM

ASX73 2829

2TPH31232H AA2TPH3AA ICAL 1219299999 SW-846 8015B
D18193.0012.RAW



ASX73 2636

Sample Number: 2TPH31232H AA2TPH3AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 12:56:46 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	7.12	326244.7
Capric Acid	6.50	0.02	239.6359
O-terphenyl	10.34	8.88	375960.2
C28	13.56	7.05	298543.5

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	3544917

RESULTS

DRO C10-C28 AREA = 3544917

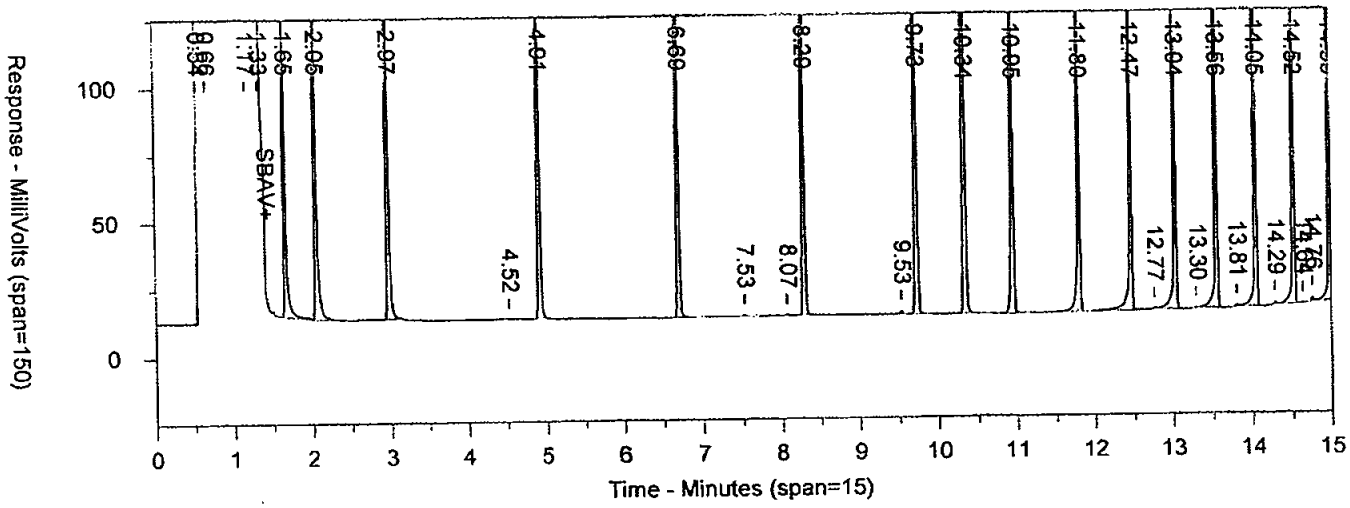
Prelim DRO AMOUNT = 99.84 PPM

#2 FUEL LEVEL 4 %D = -96.01%

Area File: D18193.0012.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 1:14:07 PM
File Reported On: 7/12/2012 at 9:04:55 AM

ASX73 2831

2TPH31232H AA2TPH3AA ICAL 1219299999 D18193.0012.RAW SW-846 8015B



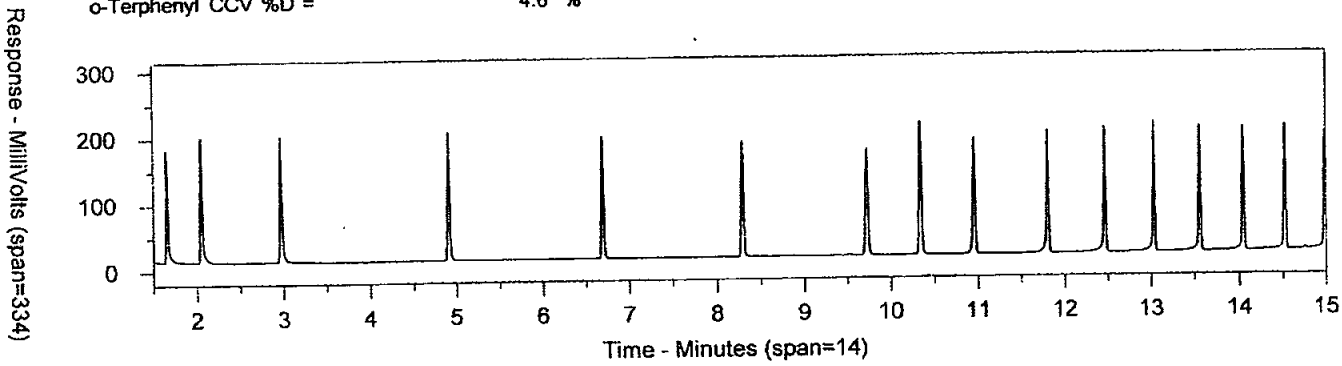
Sample Number: 2TPH31232H AA2TPH3AA ICAL 1219299999
Injected On: 7/11/2012 12:56:46 PM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	6.9909	320320.6
O-terphenyl	10.34	8.3669	375684.3
C28	13.56	6.9639	294751.3

1000 mL WW & SW o-Terphenyl Recovery =69.7 %
500 mL WW o-Terphenyl Recovery = 139.4 %
o-Terphenyl CCV %D = 4.6 %

1000 ML CAPRIC ACID % RECOVERY = 0.0 %
500 ML CAPRIC ACID % RECOVERY = 0.0 %

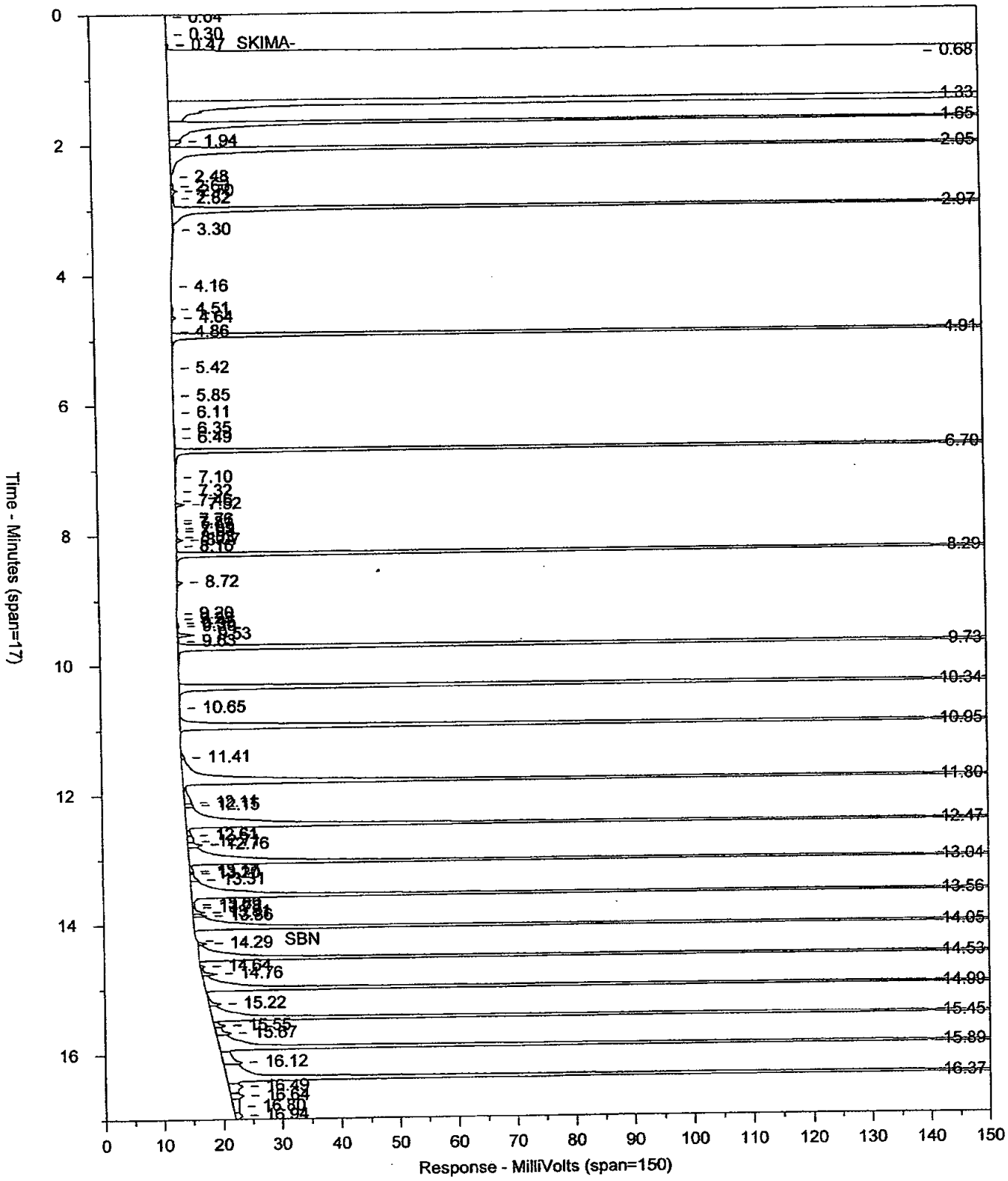


Area File: D18193.0012.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/11/2012 1:14:07 PM
File Reported On: 7/12/2012 at 9:06:17 AM

ASX73 2032

2TPH41232B AA2TPH4AA ICAL 1219299999 SW-846 8015B
D18193.0013.RAW



ASX73 2933

Sample Number: 2TPH41232B AA2TPH4AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 1:19:28 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	14.19	649972.7
Capric Acid	6.49	0.03	315.0863
O-terphenyl	10.34	16.33	703322.6
C28	13.56	14.13	597960.3

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	7045998

RESULTS

DRO C10-C28 AREA = 7045998

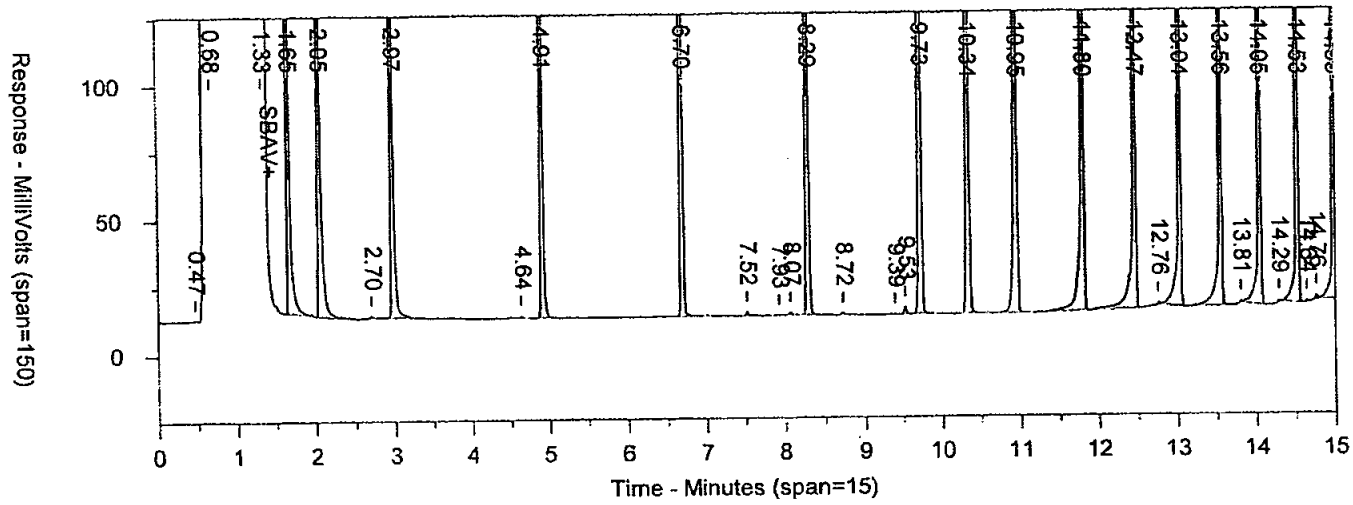
Prelim DRO AMOUNT = 198.45 PPM

#2 FUEL LEVEL 4 %D = -92.06%

Area File: D18193.0013.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 1:36:49 PM
File Reported On: 7/12/2012 at 9:05:01 AM

ASX73 2834

2TPH41232B AA2TPH4AA ICAL 1219299999 D18193.0013.RAW SW-846 8015B



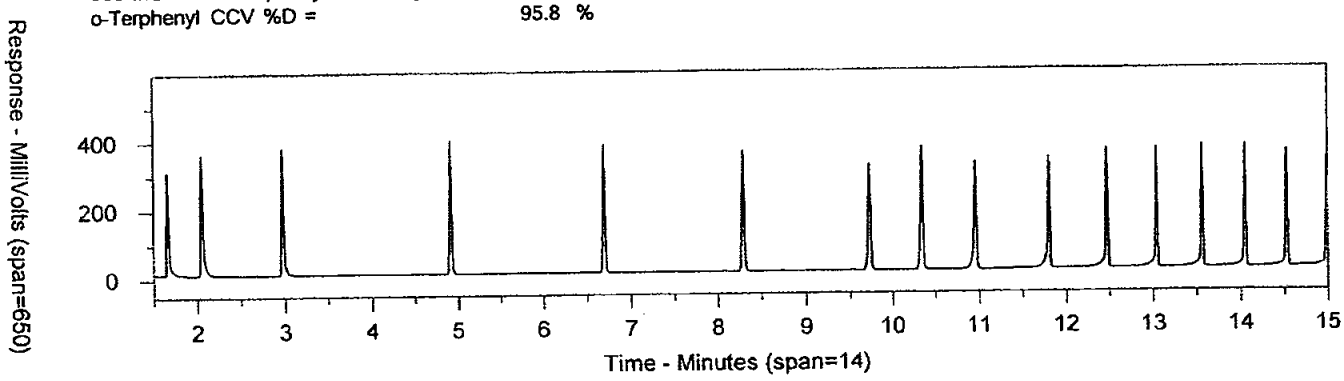
Sample Number: 2TPH41232B AA2TPH4AA ICAL 1219299999
Injected On: 7/11/2012 1:19:28 PM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	14.0530	643902.6
O-terphenyl	10.34	15.6641	703338.4
C28	13.56	13.9960	592394.3

1000 mL WW & SW o-Terphenyl Recovery =130.5 %
500 mL WW o-Terphenyl Recovery = 261.1 %
o-Terphenyl CCV %D = 95.8 %

1000 ML CAPRIC ACID % RECOVERY = 0.0 %
500 ML CAPRIC ACID % RECOVERY = 0.0 %

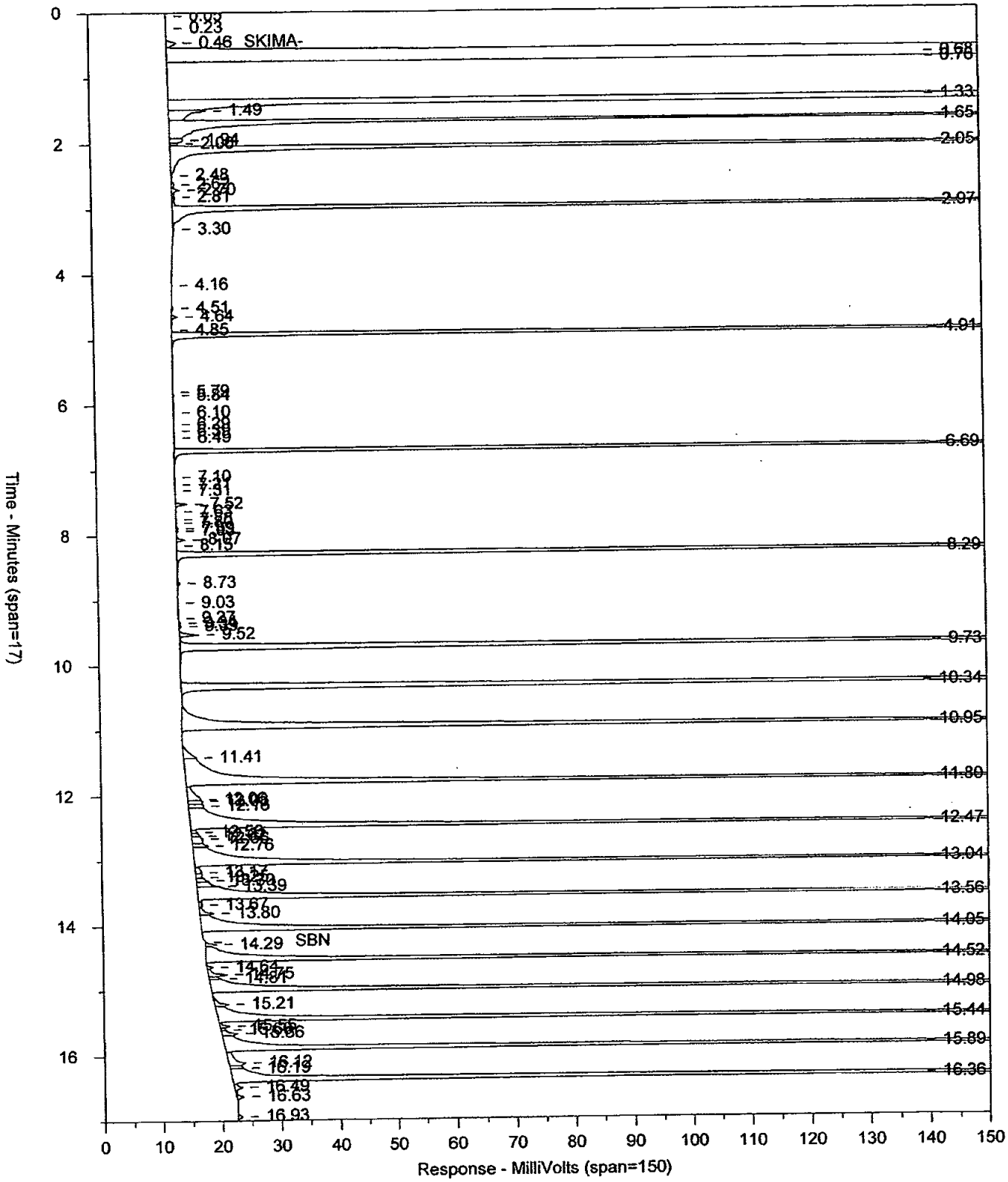


Area File: D18193.0013.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/11/2012 1:36:49 PM
File Reported On: 7/12/2012 at 9:06:23 AM

QSX73 2035

2TPH51232B AA2TPH5AA ICAL 1219299999 SW-846 8015B
D18193.0014.RAW



ASX73 2936

Sample Number: 2TPH51232B AA2TPH5AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 1:41:31 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	17.93	821492.3
Capric Acid	6.49	0.06	309.1928
O-terphenyl	10.34	21.39	936017.9
C28	13.56	17.00	719354.1

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	8937652

RESULTS

DRO C10-C28 AREA = 8937652

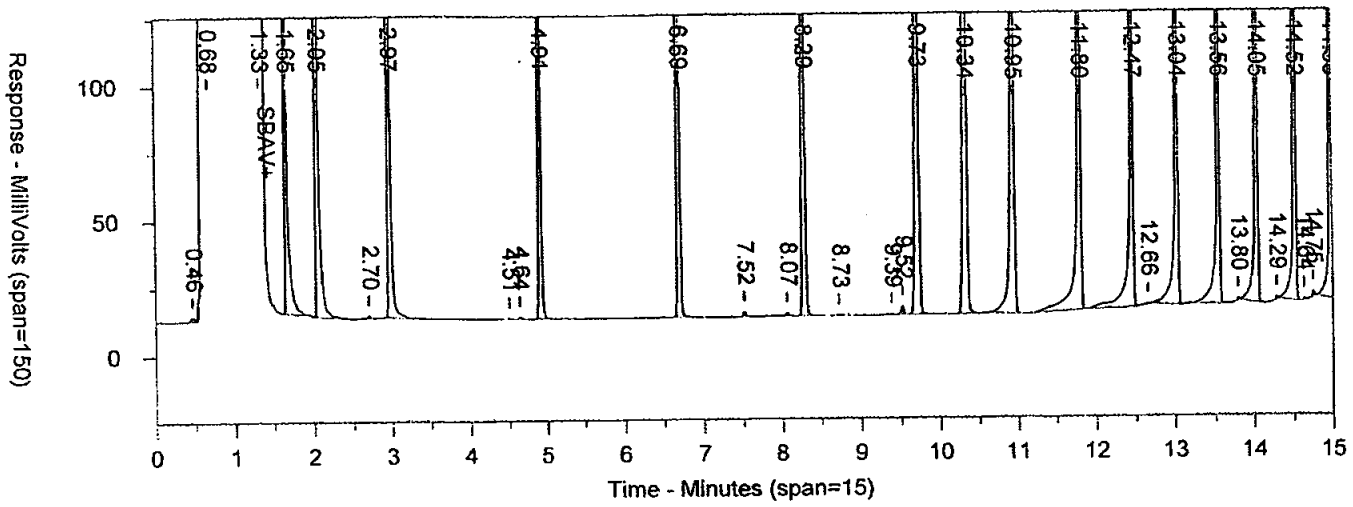
Prelim DRO AMOUNT = 251.73 PPM

#2 FUEL LEVEL 4 %D = -89.93%

Area File: D18193.0014.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 1:58:52 PM
File Reported On: 7/12/2012 at 9:05:07 AM

ASX73 2837

2TPH51232B AA2TPH5AA ICAL 1219299999 D18193.0014.RAW SW-846 8015B



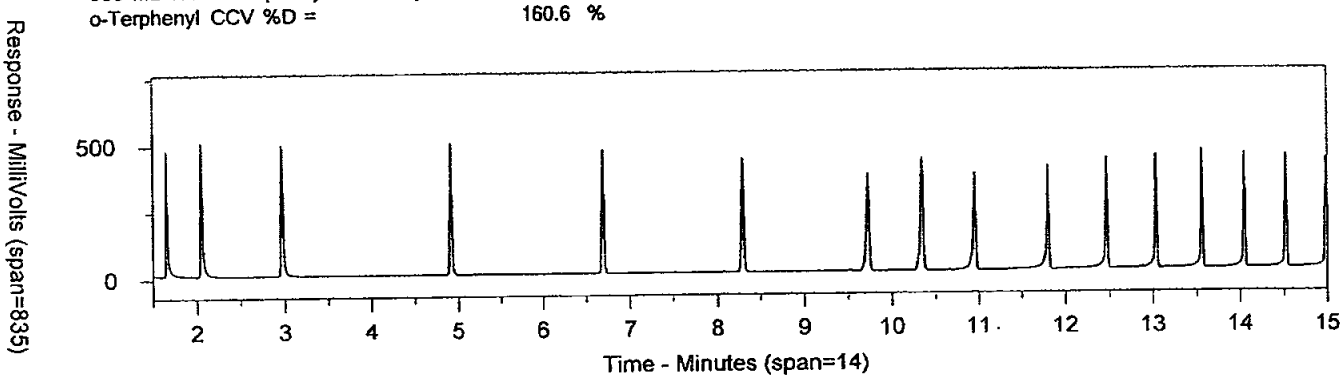
Sample Number: 2TPH51232B AA2TPH5AA ICAL 1219299999
Injected On: 7/11/2012 1:41:31 PM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	17.7907	815163.2
O-terphenyl	10.34	20.8461	936017.9
C28	13.56	17.1162	724456.1

1000 mL WW & SW o-Terphenyl Recovery =173.7 %
500 mL WW o-Terphenyl Recovery = 347.4 %
o-Terphenyl CCV %D = 160.6 %

1000 ML CAPRIC ACID % RECOVERY = 0.0 %
500 ML CAPRIC ACID % RECOVERY = 0.0 %

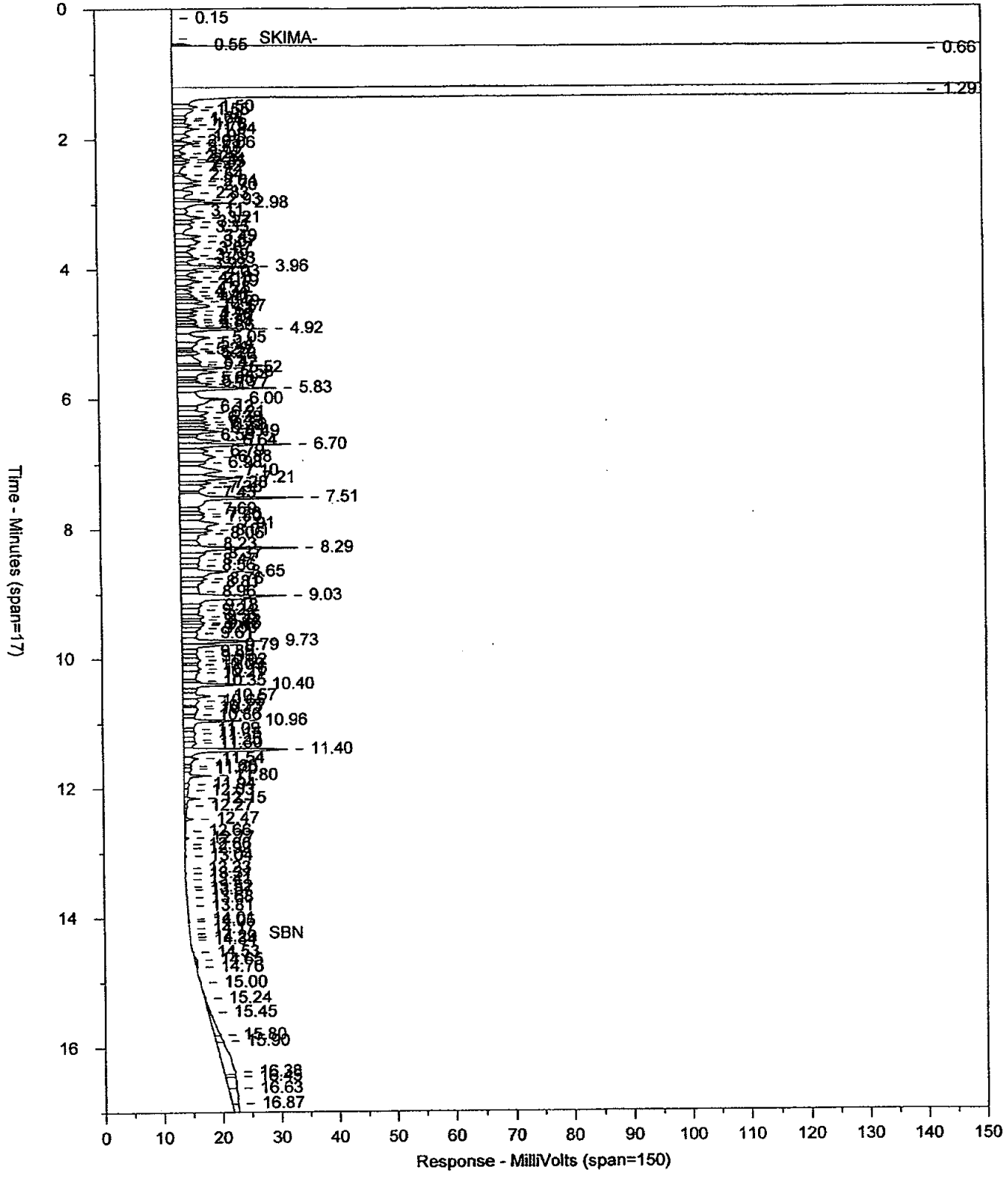


Area File: D18193.0014.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/11/2012 1:58:52 PM
File Reported On: 7/12/2012 at 9:06:29 AM

QSX73 2038

2FUL11232C AA2FUL1AA ICAL 1219299999 SW-846 8015B
D18193.0015.RAW



ASX23 2939

Sample Number: 2FUL11232C AA2FUL1AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 2:04:14 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.98	0.60	27564.72
Capric Acid	6.49	103.94	21969.64
O-terphenyl	10.35	0.16	7298.369
C28	13.57	0.01	302.6586

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	2057892

RESULTS

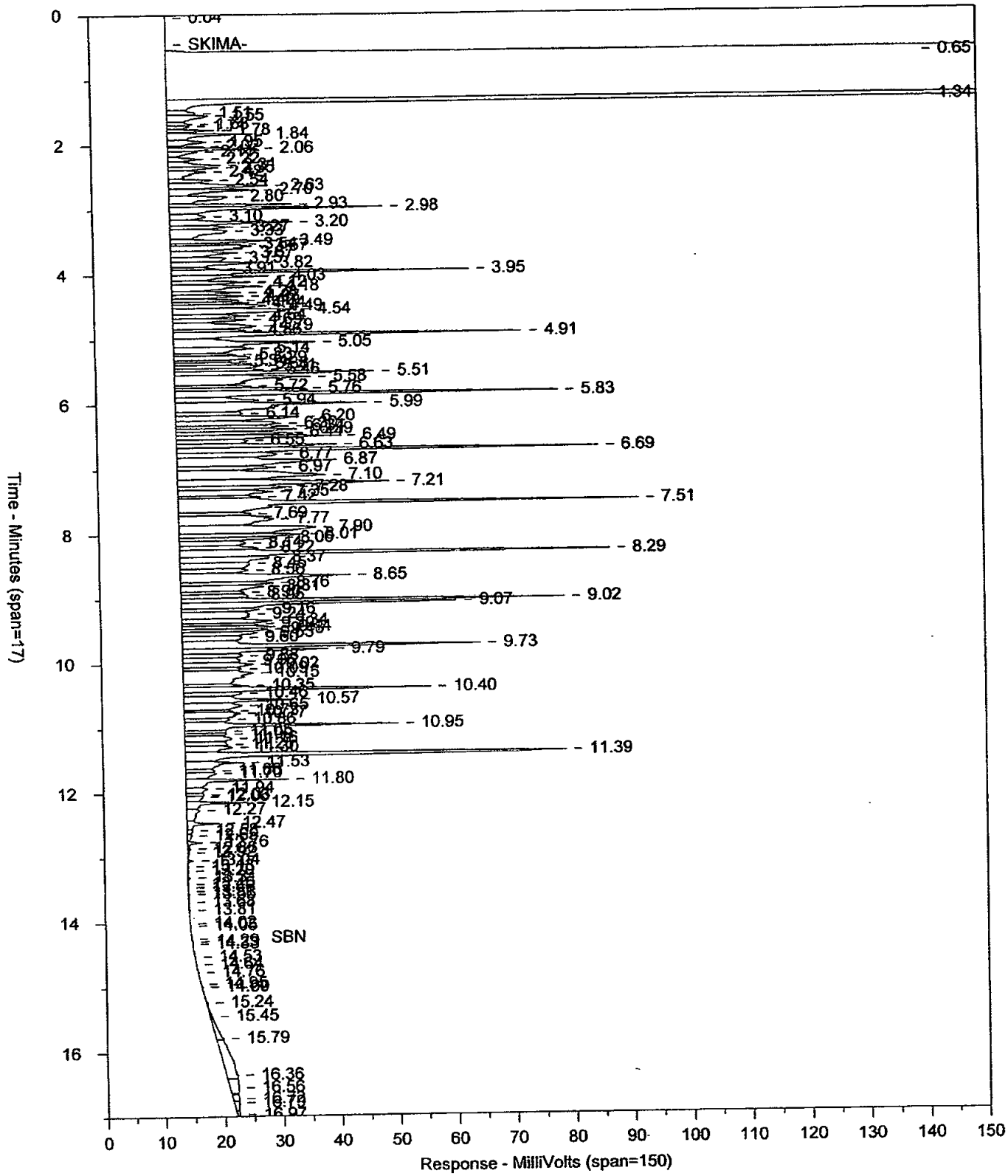
DRO C10-C28 AREA = 2057892

Prelim DRO AMOUNT = 57.96 PPM

#2 FUEL LEVEL 4 %D = -97.68%

Area File: D18193.0015.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 2:21:36 PM
File Reported On: 7/12/2012 at 9:05:13 AM

2FUL21232C AA2FUL2AA ICAL 1219299999 SW-846 8015B
D18193.0016.RAW



ASX73 2041

Sample Number: 2FUL21232C AA2FUL2AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 2:26:50 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.98	1.87	85799.98
Capric Acid	6.49	368.99	77992.9
O-terphenyl	10.35	0.58	26146.95
C28	13.56	0.01	530.3789

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	7484876

RESULTS

DRO C10-C28 AREA = 7484876

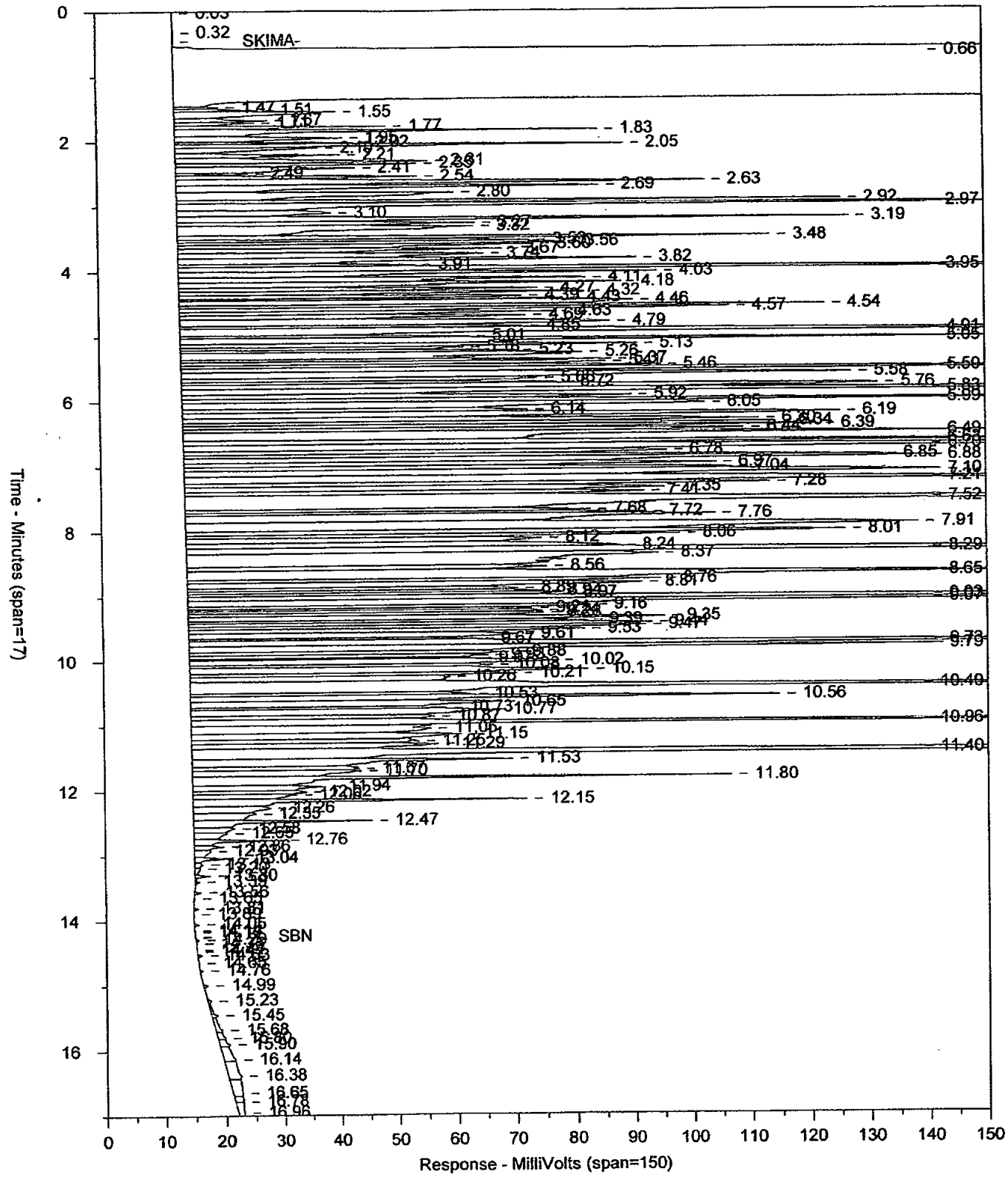
Prelim DRO AMOUNT = 210.81 PPM

#2 FUEL LEVEL 4 %D = -91.57%

Area File: D18193.0016.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 2:44:11 PM
File Reported On: 7/12/2012 at 9:05:17 AM

ASX73 2942

2FUL31232B AA2FUL3AA ICAL 1219299999 SW-846 8015B
D18193.0017.RAW



ASX73 2843

Sample Number: 2FUL31232B AA2FUL3AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 2:48:53 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	9.05	414687.7
Capric Acid	6.49	2858.10	604117.9
C28	13.56	0.04	1842.176

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	38999250

RESULTS

DRO C10-C28 AREA = 38999250

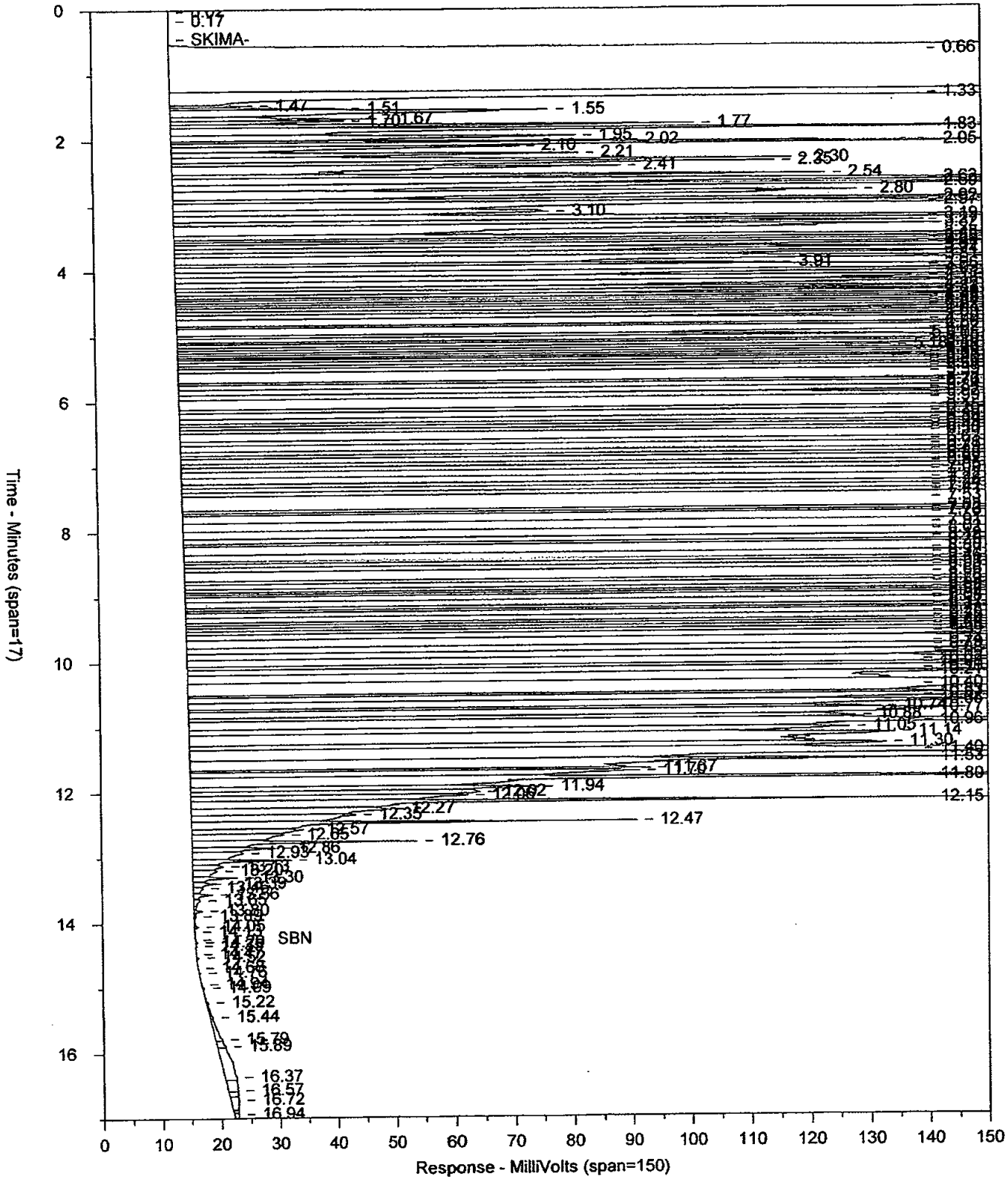
Prelim DRO AMOUNT = 1098.40 PPM

#2 FUEL LEVEL 4 %D = -56.06%

Area File: D18193.0017.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 3:06:14 PM
File Reported On: 7/12/2012 at 9:05:21 AM

08X73 2844

2FUL41232G AA2FUL4AA ICAL 1219299999 SW-846 8015B
D18193.0018.RAW



03X73 2845

Sample Number: 2FUL41232G AA2FUL4AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 3:11:40 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	22.87	1047915
Capric Acid	6.50	6953.11	1469684
C28	13.56	0.21	8819.505

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	99576580

RESULTS

DRO C10-C28 AREA = 99576580

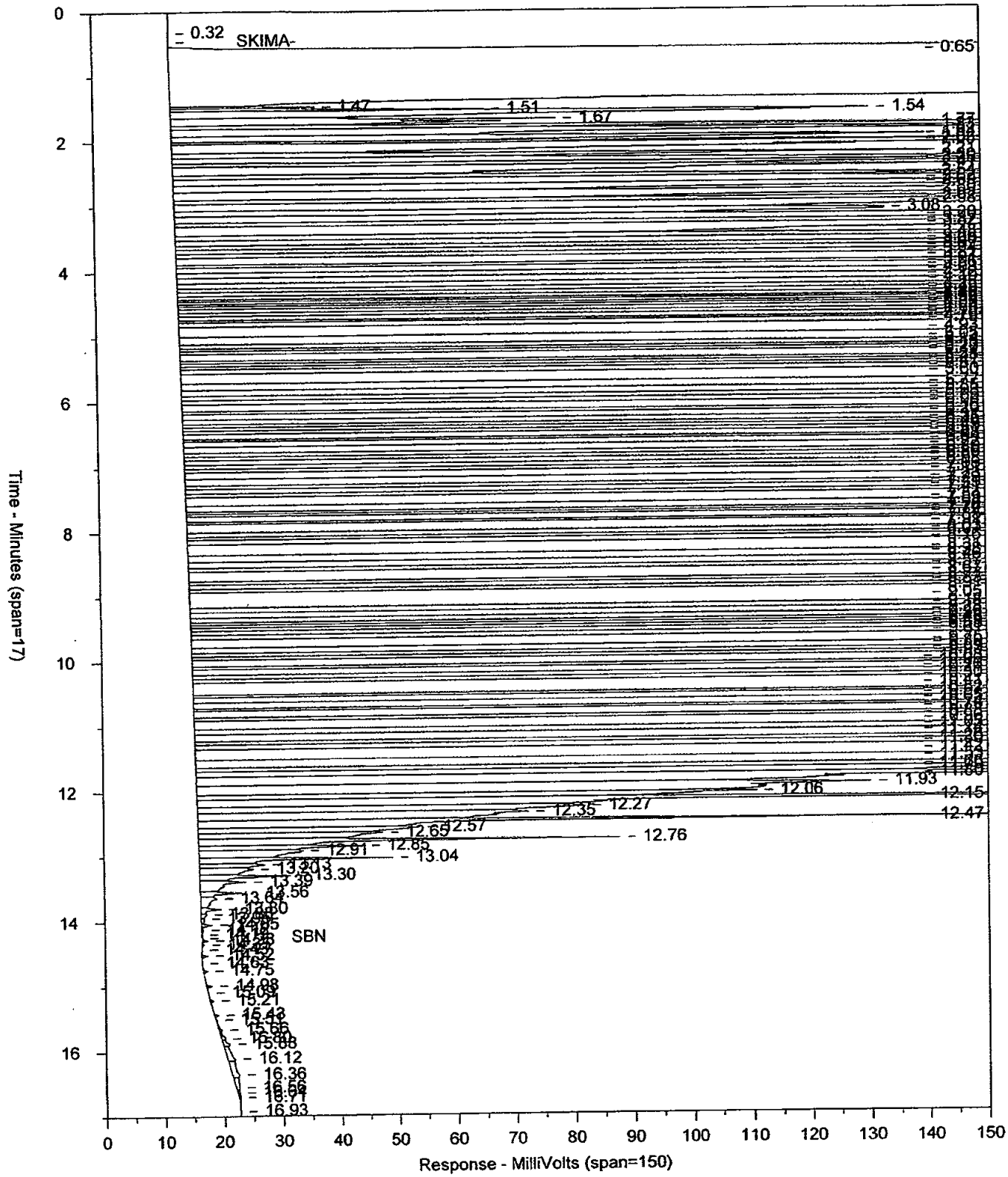
Prelim DRO AMOUNT = 2804.55 PPM

#2 FUEL LEVEL 4 %D = 12.18%

Area File: D18193.0018.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 3:29:01 PM
File Reported On: 7/12/2012 at 9:05:25 AM

ASX73 2846

2FUL51232B AA2FUL5AA ICAL 1219299999 SW-846 8015B
D18193.0019.RAW



ASX73 2947

Sample Number: 2FUL51232B AA2FUL5AA ICAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 3:34:21 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.98	45.06	2064711
Capric Acid	6.51	9930.85	2099091
O-terphenyl	10.30	19.45	873278.2
C28	13.56	0.47	19773.11

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	195932300

RESULTS

DRO C10-C28 AREA = 195932300

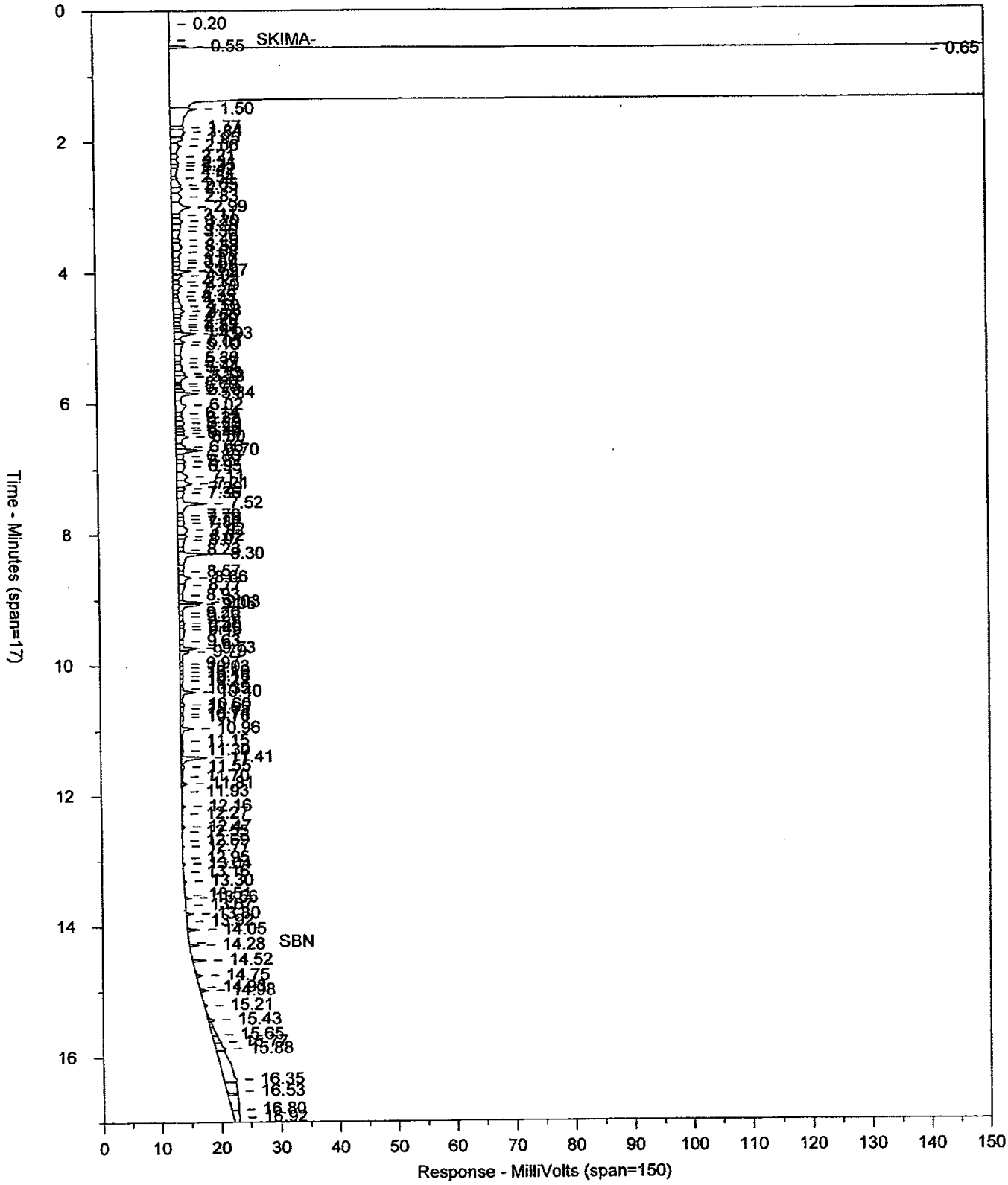
Prelim DRO AMOUNT = 5518.39 PPM

#2 FUEL LEVEL 4 %D = 120.74%

Area File: D18193.0019.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 3:51:42 PM
File Reported On: 7/12/2012 at 9:05:29 AM

ASX73 2848

2MDLX1232C ET2MDLXET CCAL 1219299999 SW-846 8015B
D18193.0021.RAW



08273 2049

Sample Number: 2MDLX1232C ET2MDLXET CCAL 1219299999 Sample Weight: 1 SW-846 8015B
Injected On: 7/11/2012 4:19:42 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.99	0.42	19467.62
Capric Acid	6.50	0.37	9603.511
O-terphenyl	10.35	0.03	1375.048
C28	13.56	0.04	1622.27

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	591346

RESULTS

DRO C10-C28 AREA = 591346

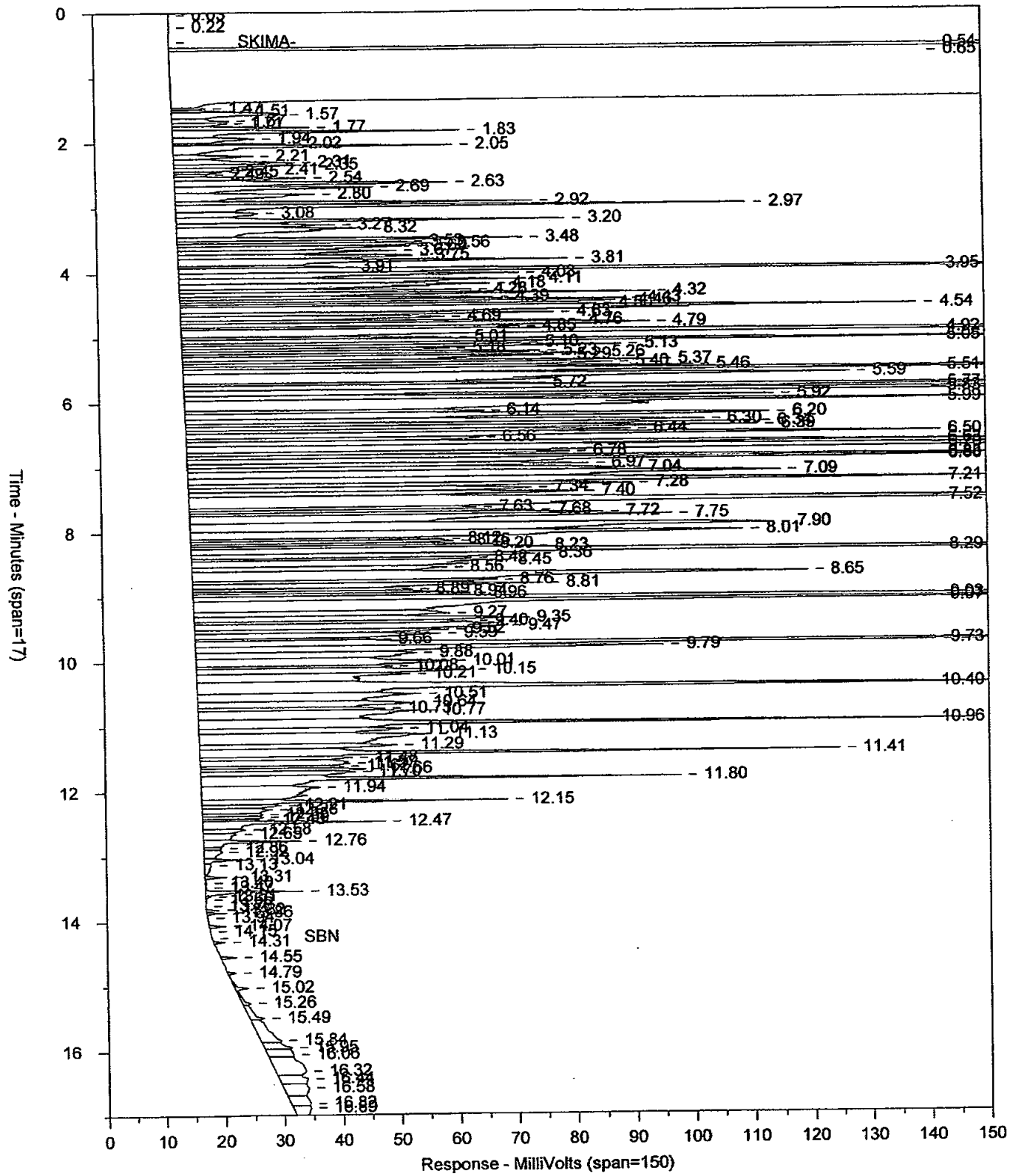
Prelim DRO AMOUNT = 15.04 PPM

#2 FUEL LEVEL 4 %D = -99.40%

Area File: D18193.0021.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/11/2012 4:37:02 PM
File Reported On: 7/12/2012 at 9:44:17 AM

ASX73 2959

2FLKX1232I BW2FLKXBW CCAL 1219399999 SW-846 8015B
D18193.0068.RAW



ASX73 2851

Sample Number: 2FLKX1232I BW2FLKXBW CCAL 1219399999 Sample Weight: 1 SW-846 8015B
Injected On: 7/12/2012 10:17:33 AM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.97	4.59	210466.1
Capric Acid	6.56	5.32	136949.4
O-terphenyl	10.40	13.46	605655.6
C28	13.53	0.71	29951.24

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	31065850

RESULTS

DRO C10-C28 AREA = 31065850

Prelim DRO AMOUNT = 790.08 PPM ÷ 800 x 100 = 99% -1.2% D

#2 FUEL LEVEL 4 %D = -68.40%

DA 7-12-12

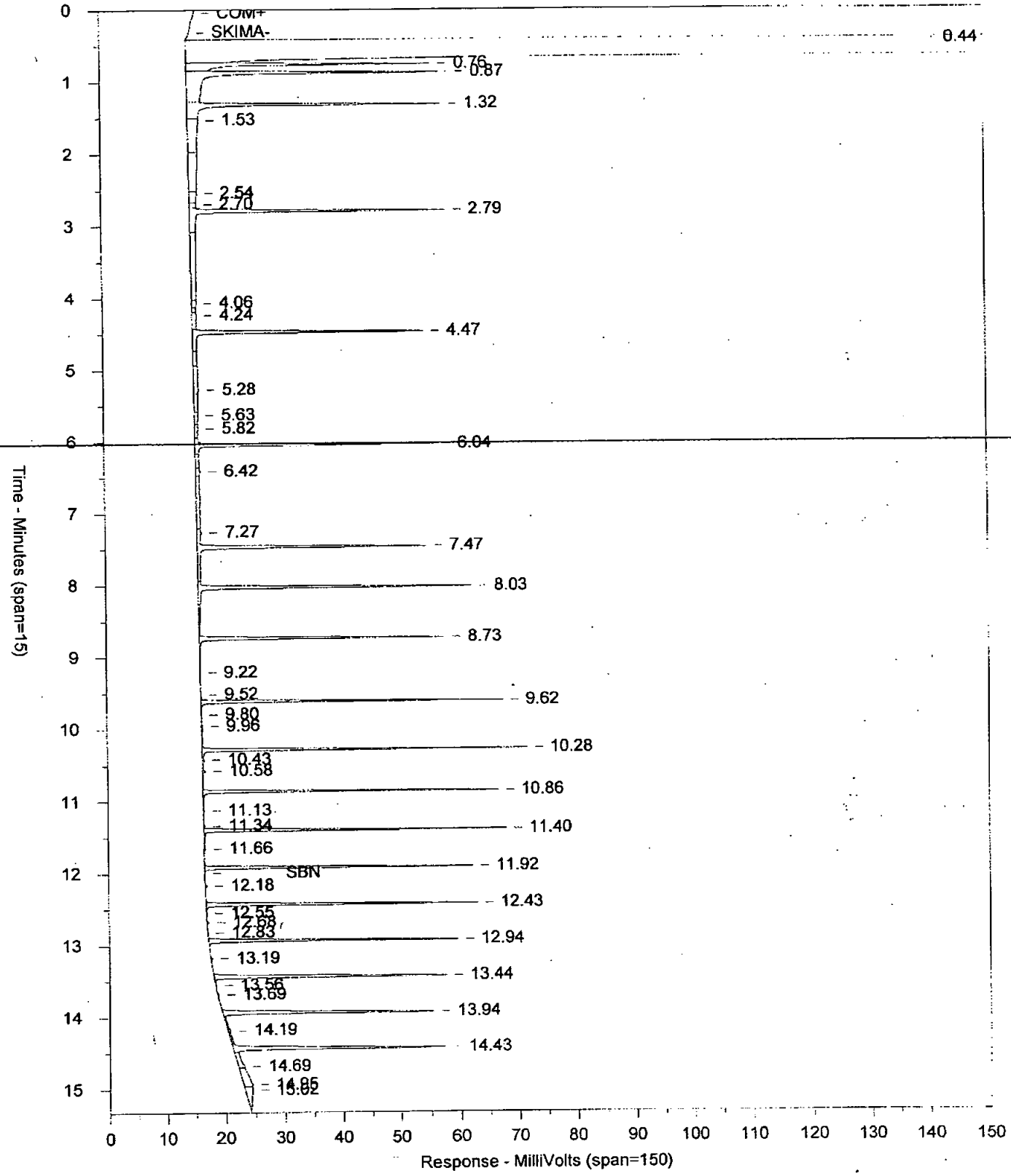
Area File: D18193.0068.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/12/2012 10:34:52 AM
File Reported On: 7/12/2012 at 10:44:23 AM

ASX73 2052

Chrom Perfect Chromatogram Report

Sample ID: TPH_11232B AATPH_1AA ICAL 1217899999
File: T21180.0016.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



A9X73 2853

Sample ID: TPH_11232B AATPH_1AA ICAL 1217899999
File: T21180.0016.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 3:01:24 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	1.32	C10	5.37	94405
10	4.24	Capric Acid	5.36	10124
19	8.03	O-terphenyl	4.35	85493
32	11.40	C-28	4.03	68714

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	19.11	970077.8
2	7.98	8.08	4.35	85493.1

********** RESULTS TABLE **********

DRO AREA = 970077.8
DRO AMOUNT = 44.66222 PPM

% Difference #2 Fuel Oil Level 3 = -94.41722%

FILES:
Area File: T21180.0016.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 3:16:46 PM
File reported on: 7/2/2012 at 6:52:19 PM

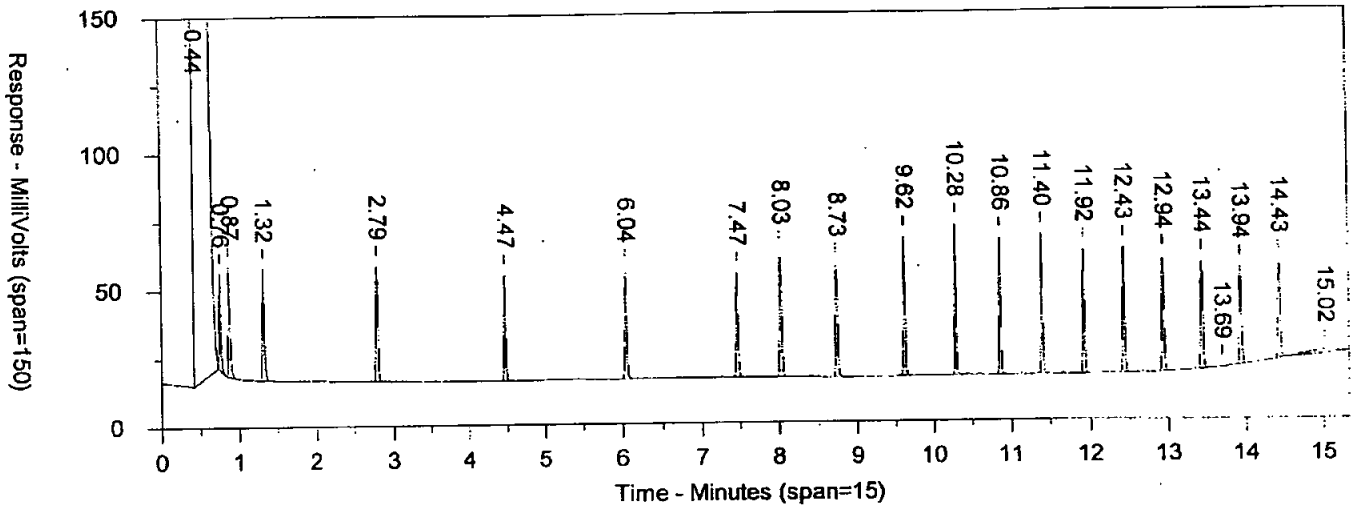
ASX73 2654

Chrom Perfect Chromatogram Report

Sample ID: TPH_11232B AATPH_1AA ICAL 1217899999

File: T21180.0016.RAW

ECY 97-602 NWTPH-Dx modified
Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 6/28/2012 3:01:24 PM
~~Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C, Hold 2min~~
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

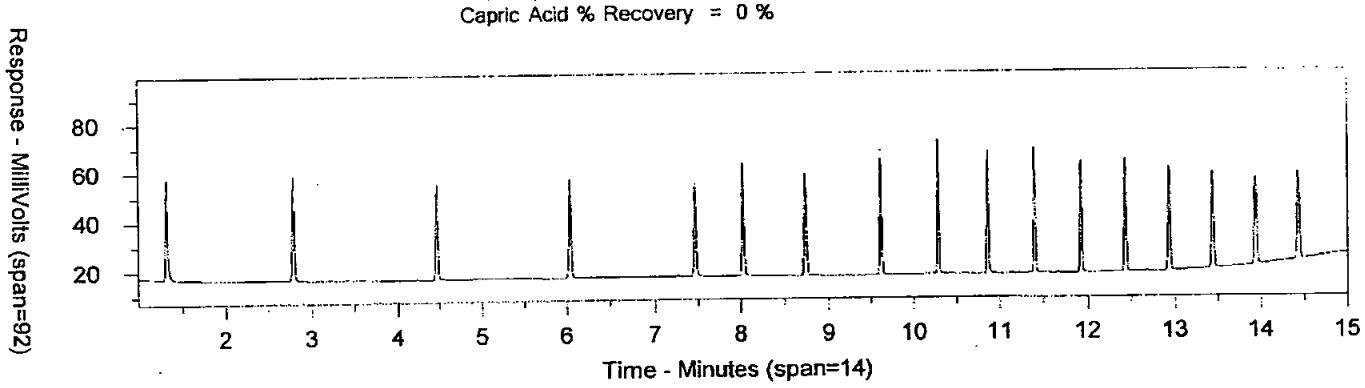
Sample Weight: 1
Dilution Factor: 1
~~Injection Volume: 1~~
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	1.32	C10	3.45	65922
9	8.03	O-terphenyl	3.86	77296
14	11.40	C-28	4.00	68395

********** Results Table **********

o-Terphenyl Level 3 % Difference = -75.90271 %

WW o-Terphenyl % Recovery = 32.12972 %
SW o-Terphenyl % Recovery = 6.425944 %
Capric Acid % Recovery = 0 %



FILES:
Area File: T21180.0016.RAW
Area file created on: 6/28/2012 3:16:46 PM
File reported on: 7/2/2012 at 6:52:25 PM
Calibration File: 1FLS180A.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

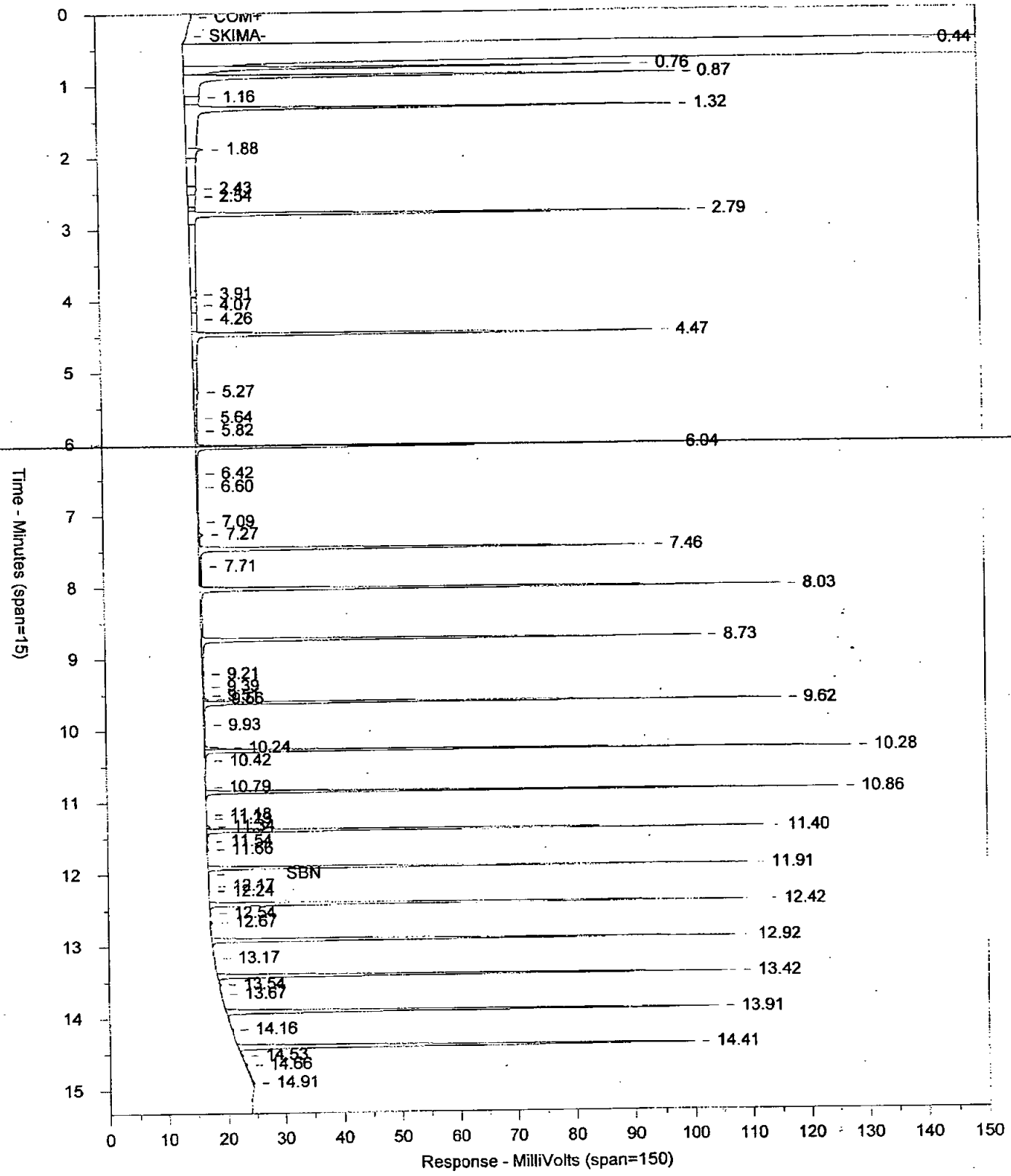
ASX73 2855

Chrom Perfect Chromatogram Report

Sample ID: TPH_21232E AATPH_2AA ICAL 1217899999

File: T21180.0017.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



ASX73 2856

Sample ID: TPH_21232E AATPH_2AA ICAL 1217899999
File: T21180.0017.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 3:23:28 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
5	1.32	C10	11.65	206037
12	4.26	Capric Acid	5.64	13550
24	8.03	O-terphenyl	8.40	164933
40	11.40	C-28	8.09	138133

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	33.78	1732518.0
2	7.98	8.08	8.40	164932.7

********** RESULTS TABLE **********

DRO AREA = 1732518
DRO AMOUNT = 79.76483 PPM

% Difference #2 Fuel Oil Level 3 = -90.0294%

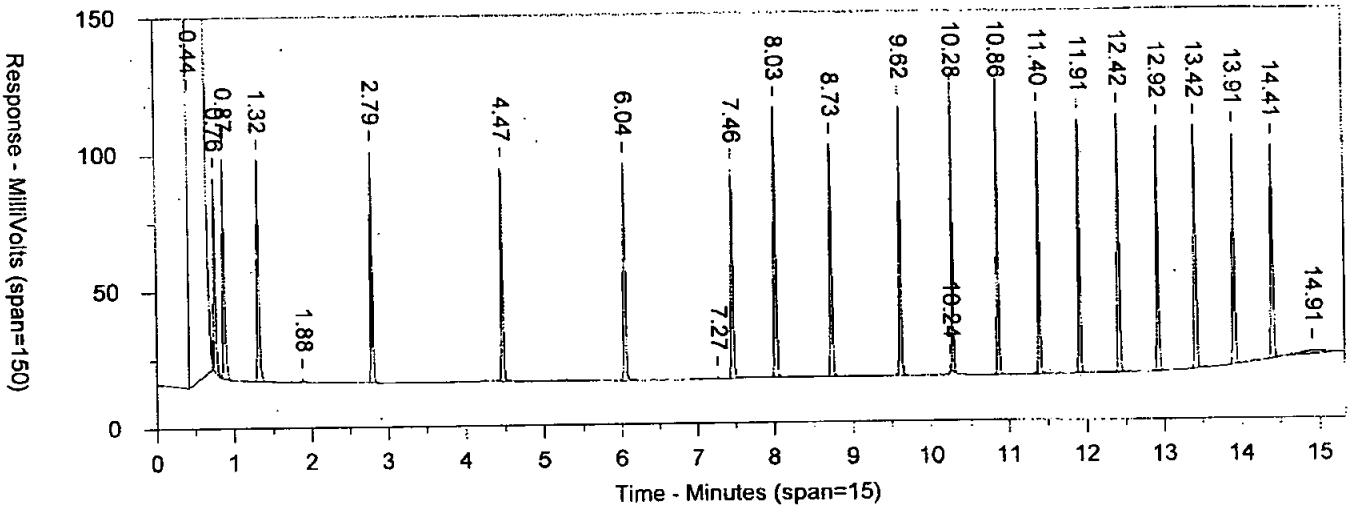
FILES:
Area File: T21180.0017.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 3:38:50 PM
File reported on: 7/2/2012 at 6:55:59 PM

ASX73 2657

Chrom Perfect Chromatogram Report

Sample ID: TPH_21232E AATPH_2AA ICAL 1217899999
File: . T21180.0017.RAW

ECY 97-602 NWTPH-Dx modified
Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 6/28/2012 3:23:28 PM
~~Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C, Hold 2min~~
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

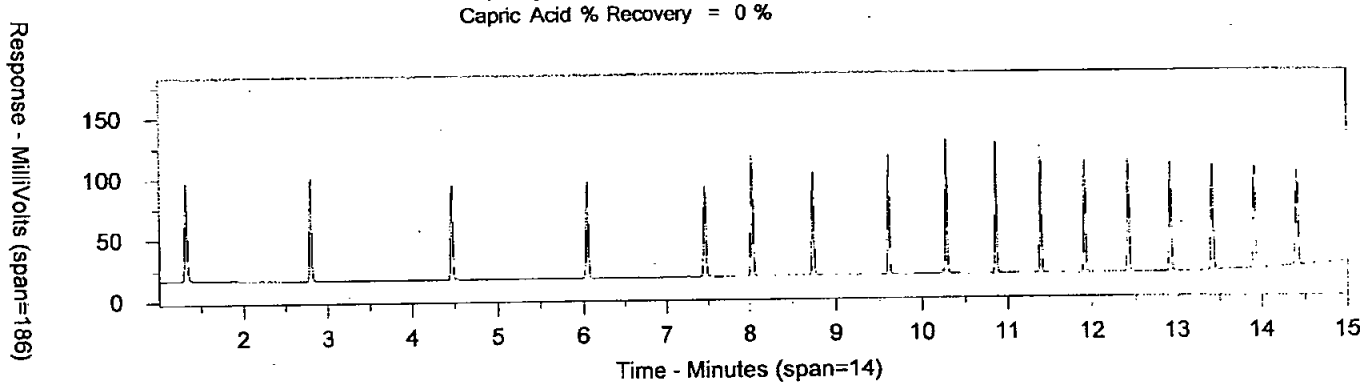
Sample Weight: 1
Dilution Factor: 1
~~Injection Volume: 1~~
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	1.32	C10	7.51	132773
11	8.03	O-terphenyl	8.13	159676
17	11.40	C-28	8.15	139171

********** Results Table **********

o-Terphenyl Level 3 % Difference = -49.18134 %

WW o-Terphenyl % Recovery = 67.75821 %
SW o-Terphenyl % Recovery = 13.55164 %
Capric Acid % Recovery = 0 %



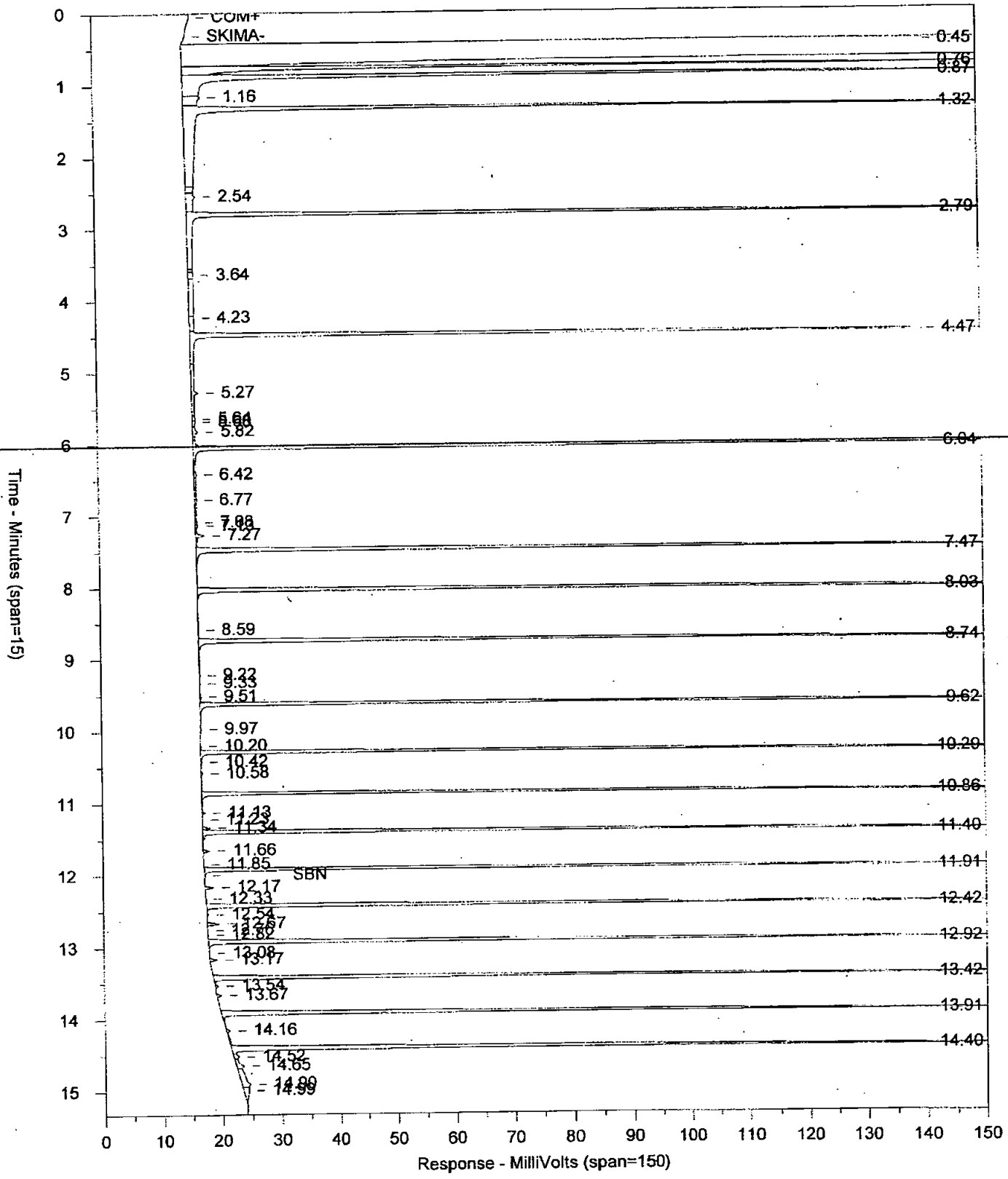
FILES:
Area File: T21180.0017.RAW
Area file created on: 6/28/2012 3:38:50 PM
File reported on: 7/2/2012 at 6:56:19 PM
Calibration File: 1FLS180A.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 2058

Chrom Perfect Chromatogram Report

Sample ID: TPH_31232E AATPH_3AA ICAL 1217899999
File: T21180.0018.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



0SX23 2859

Sample ID: TPH_31232E AATPH_3AA ICAL 1217899999
File: T21180.0018.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 3:45:45 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
5	1.32	C10	22.07	390418
9	4.23	Capric Acid	5.30	9448
22	8.03	O-terphenyl	16.38	321726
38	11.40	C-28	16.10	274858

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	59.86	3337205.0
2	7.98	8.08	16.38	321726.2

********** RESULTS TABLE **********

DRO AREA = 3337205
DRO AMOUNT = 153.6444 PPM

% Difference #2 Fuel Oil Level 3 = -80.79446%

FILES:
Area File: T21180.0018.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 4:01:07 PM
File reported on: 7/2/2012 at 6:56:01 PM

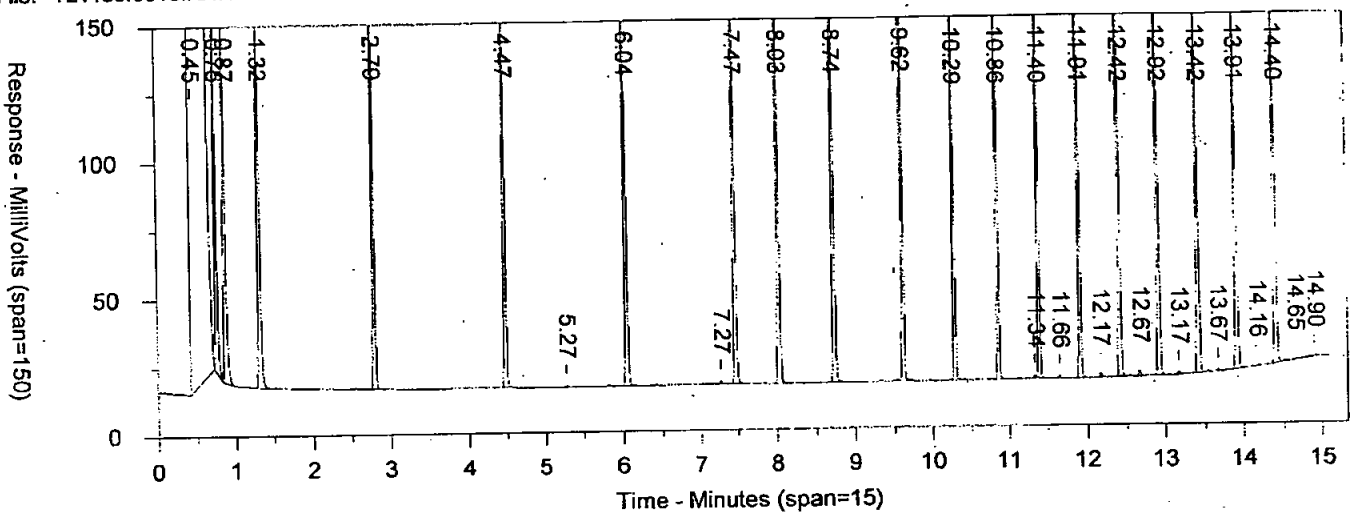
ASX73 2869

Chrom Perfect Chromatogram Report

Sample ID: TPH_31232E AATPH_3AA ICAL 1217899999

File: T21180.0018.RAW

ECY 97-602 NWTPH-Dx modified
Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 6/28/2012 3:45:45 PM
~~Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C, Hold 2min~~
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

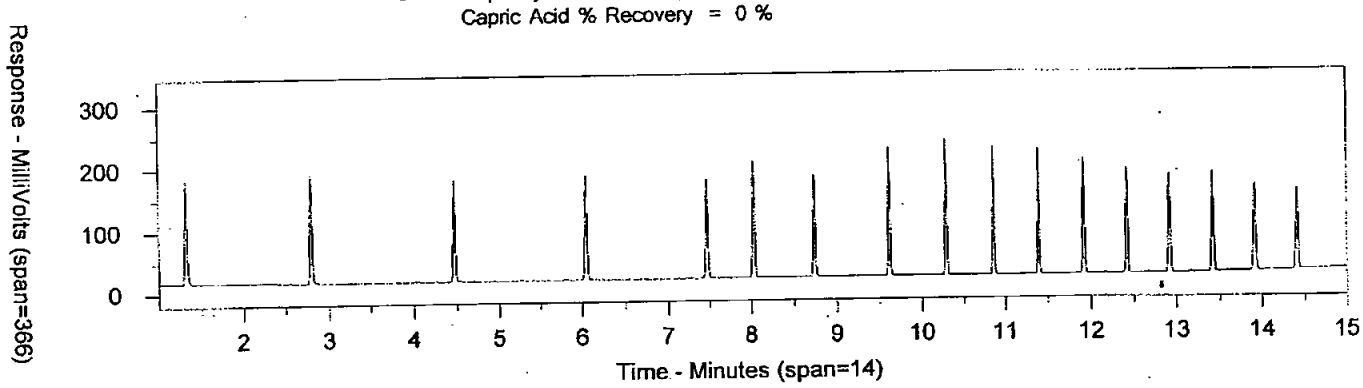
Sample Weight: 1
Dilution Factor: 1
~~Injection Volume: 1~~
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	1.32	C10	15.20	268766
11	8.03	O-terphenyl	16.36	321298
17	11.40	C-28	15.97	272712

********** Results Table **********

o-Terphenyl Level 3 % Difference = 2.256858 %

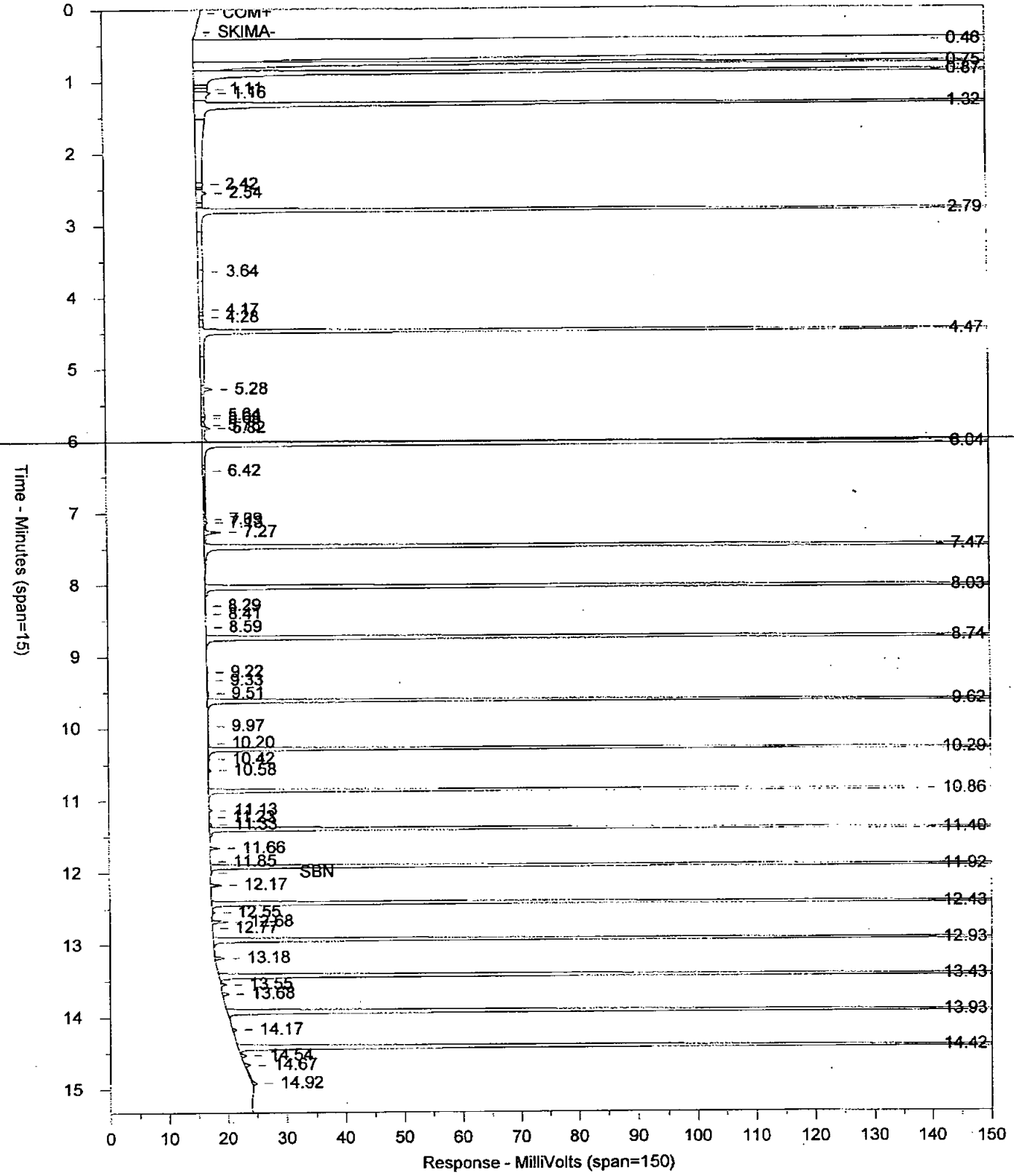
WW o-Terphenyl % Recovery = 136.3425 %
SW o-Terphenyl % Recovery = 27.2685 %
Capric Acid % Recovery = 0 %



FILES:
Area File: T21180.0018.RAW
Area file created on: 6/28/2012 4:01:07 PM
File reported on: 7/2/2012 at 6:56:23 PM
Calibration File: 1FLS180A.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 2861

Sample ID: TPH_41232E AATPH_4AA ICAL 1217899999 ECY 97-602 NWTPH-Dx modified
File: T21180.0019.RAW TPH/DRO by 8015B, modified



ASX73 2062

Sample ID: TPH_41232E AATPH_4AA ICAL 1217899999
File: T21180.0019.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 4:10:50 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
6	1.32	C10	32.10	567709
12	4.28	Capric Acid	4.75	2672
25	8.03	O-terphenyl	31.68	622083
43	11.40	C-28	31.45	536929

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	99.98	6251036.0
2	7.98	8.08	31.68	622083.1

********** RESULTS TABLE **********

DRO AREA = 6251036
DRO AMOUNT = 287.7967 PPM

% Difference #2 Fuel Oil Level 3 = -64.02541%

FILES:
Area File: T21180.0019.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 4:26:12 PM
File reported on: 7/2/2012 at 6:56:03 PM

ASX73 2863

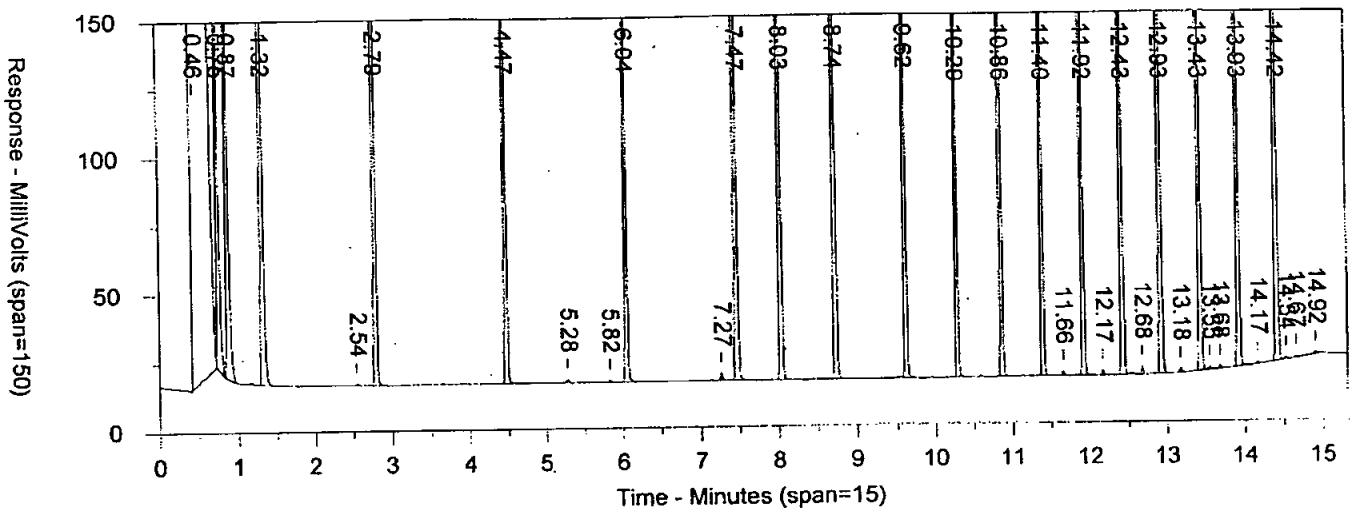
Chrom Perfect Chromatogram Report

Sample ID: TPH_41232E AATPH_4AA ICAL 1217899999

File: T21180.0019.RAW

ECY 97-602 NWTPH-Dx modified

Surrogate Report for 8015B, modified



Instrument ID: CP21-6783

Injected On: 6/28/2012 4:10:50 PM

Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min

GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

Sample Weight: 1

Dilution Factor: 1

Injection Volume: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	1.32	C10	30.45	538568
13	8.03	O-terphenyl	31.66	621704
18	11.40	C-28	31.40	536017

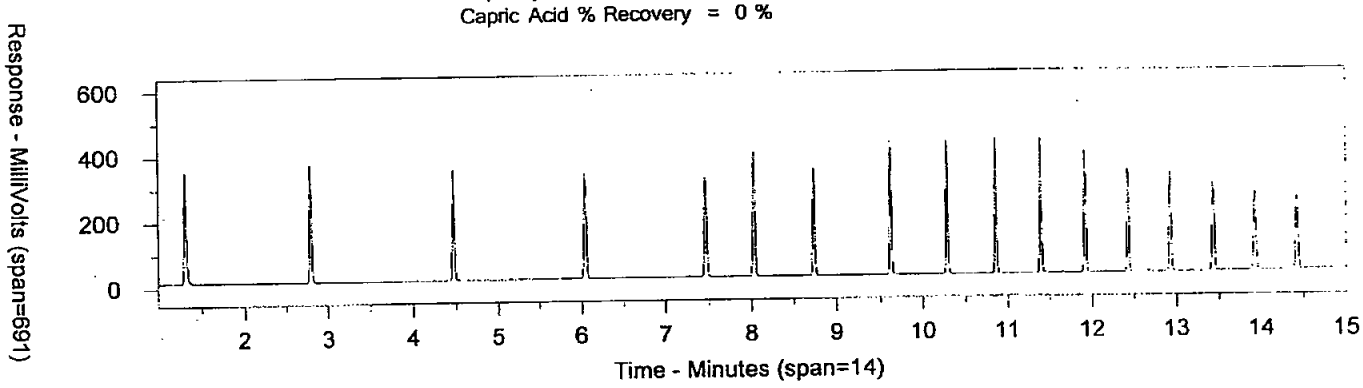
********** Results Table **********

o-Terphenyl Level 3 % Difference = 97.86462 %

WW o-Terphenyl % Recovery = 263.8195 %

SW o-Terphenyl % Recovery = 52.7639 %

Capric Acid % Recovery = 0 %



FILES:

Area File: T21180.0019.RAW

Area file created on: 6/28/2012 4:26:12 PM

File reported on: 7/2/2012 at 6:56:27 PM

Calibration File: 1FLS180A.CAL

Method File: 1REPLOTS.MET

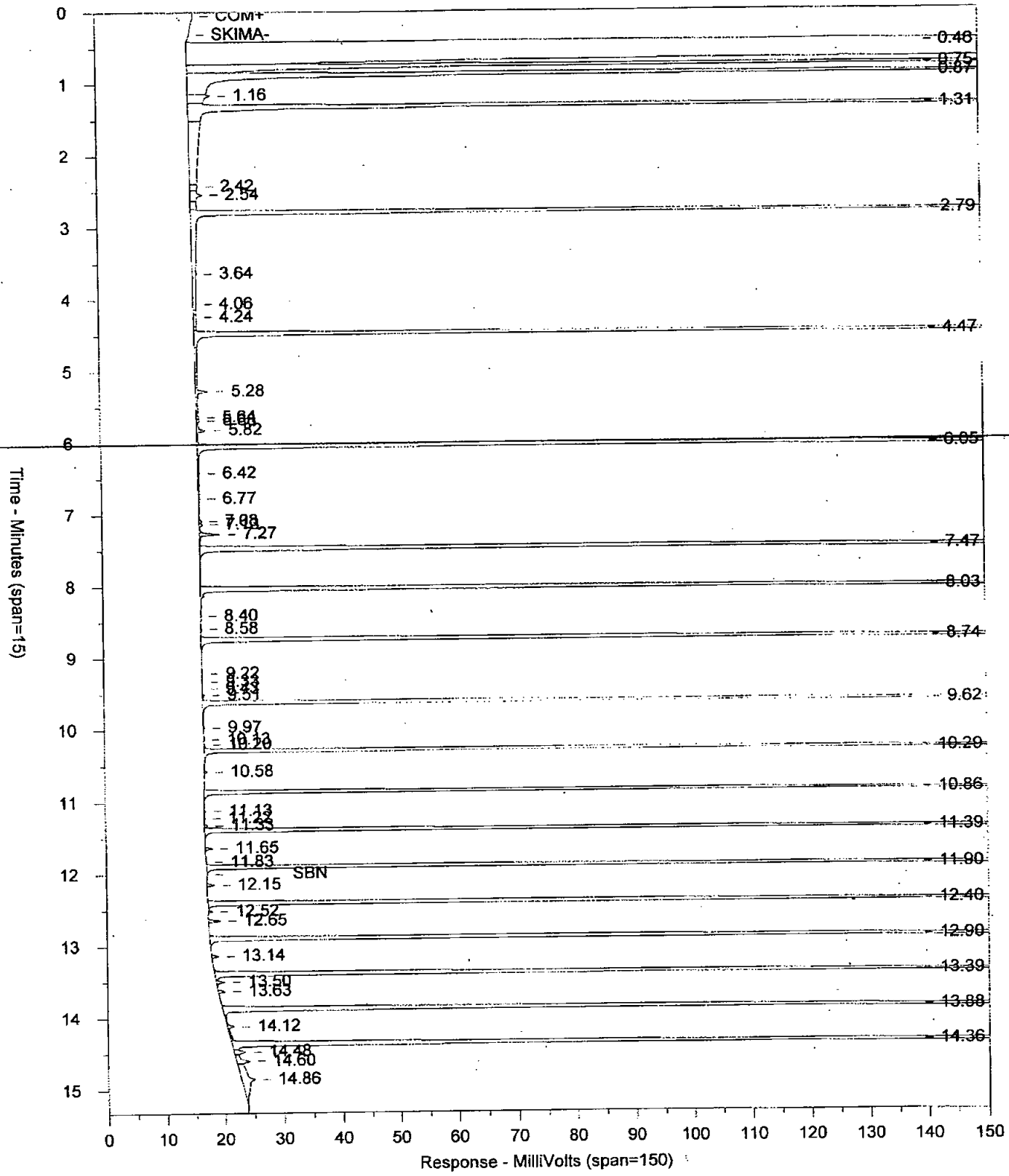
Format File: 1REplotS.fmt

ASX73 2964

Chrom Perfect Chromatogram Report

Sample ID: TPH_51232B AATPH_5AA ICAL 1217899999
File: T21180.0020.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



Printed on 7/2/2012 6:56:05 PM

ASX73 2865

Sample ID: TPH_51232B AATPH_5AA ICAL 1217899999
File: T21180.0020.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 4:32:58 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
5	1.31	C10	40.18	710696
11	4.24	Capric Acid	5.00	5685
24	8.03	O-terphenyl	39.51	775872
42	11.39	C-28	40.60	693016

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	125.28	7812001.0
2	7.98	8.08	39.51	775872.4

********** RESULTS TABLE **********

DRO AREA = 7812001
DRO AMOUNT = 359.6632 PPM

% Difference #2 Fuel Oil Level 3 = -55.0421%

FILES:
Area File: T21180.0020.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 4:48:18 PM
File reported on: 7/2/2012 at 6:56:05 PM

ASX73 2866

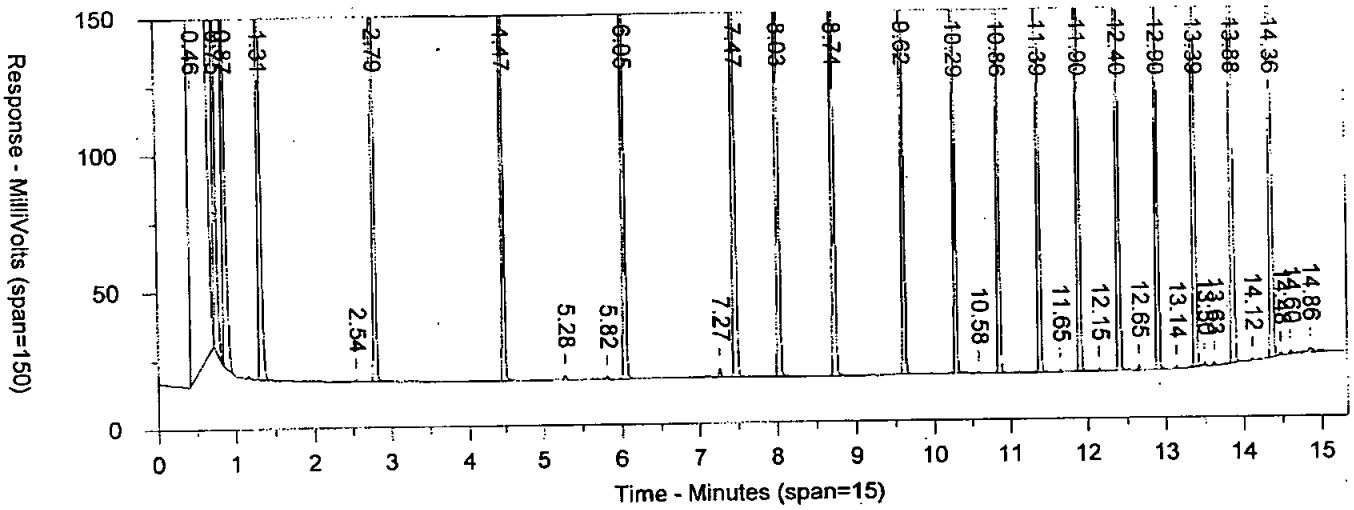
Chrom Perfect Chromatogram Report

Sample ID: TPH_51232B AATPH_5AA ICAL 1217899999

File: T21180.0020.RAW

ECY 97-602 NWTPH-Dx modified

Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 6/28/2012 4:32:58 PM
Oven Parameters: 50C for 1min, 15C/min to 190C, 30C/min to 340C, Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

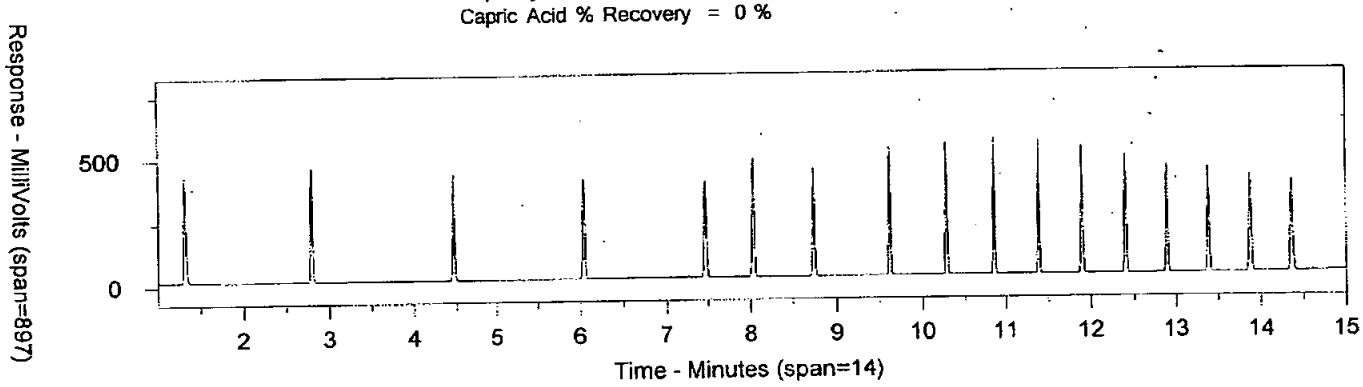
Sample Weight: 1
Dilution Factor: 1
Injection Volume: 1
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	1.31	C10	38.08	673594
13	8.03	O-terphenyl	39.51	775872
19	11.39	C-28	40.66	694104

********** Results Table **********

o-Terphenyl Level 3 % Difference = 146.9304 %

WW o-Terphenyl % Recovery = 329.2405 %
SW o-Terphenyl % Recovery = 65.84809 %
Capric Acid % Recovery = 0 %



FILES:
Area File: T21180.0020.RAW
Area file created on: 6/28/2012 4:48:18 PM
File reported on: 7/2/2012 at 6:56:31 PM
Calibration File: 1FLS180A.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

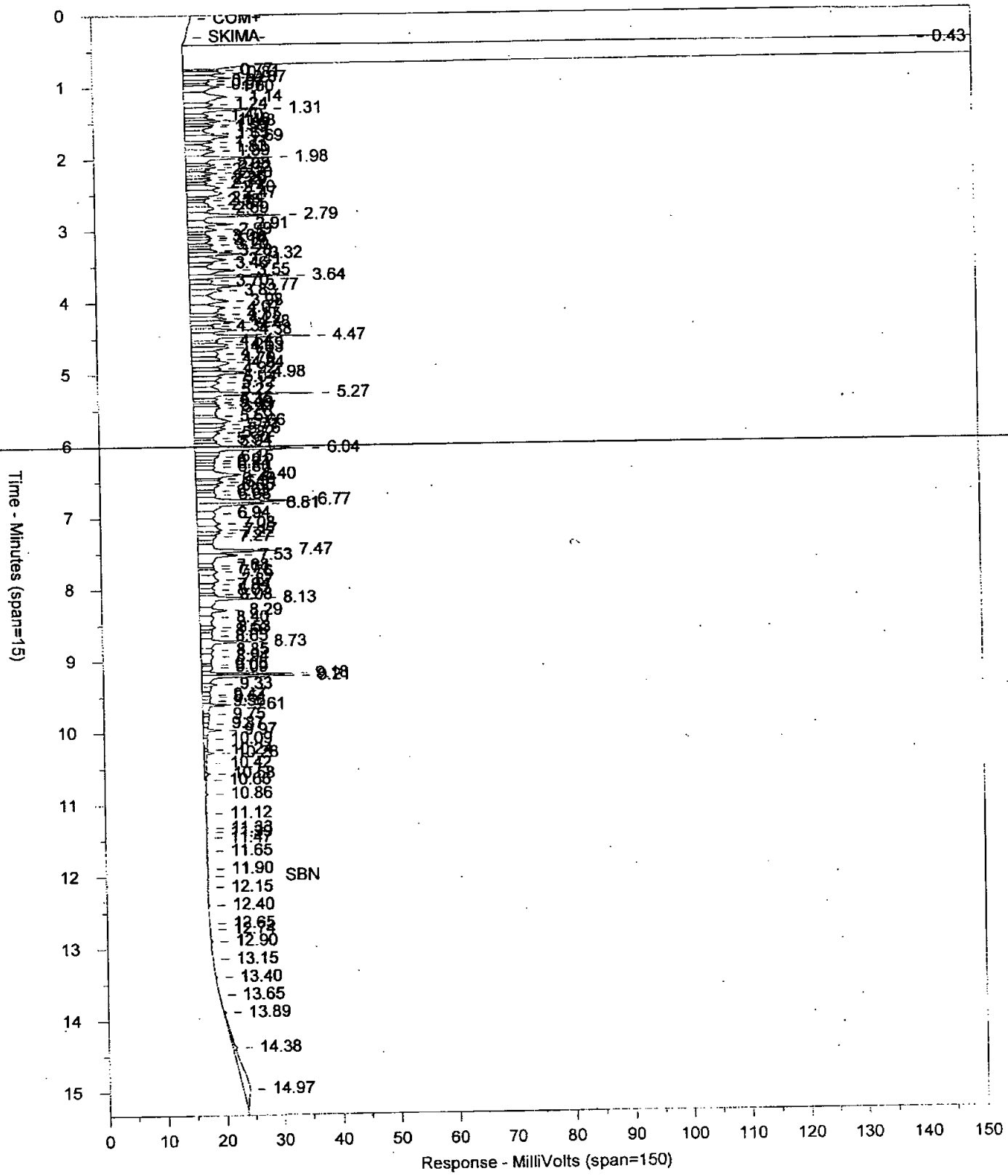
0SX73 2967

Chrom Perfect Chromatogram Report

Sample ID: 1FUL11232D AA1FUL1AA ICAL 1217999999

File: T21180.0021.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



ASX73 2000

Chrom Perfect Chromatogram Report

Sample ID: 1FUL11232D AA1FUL1AA ICAL 1217999999
File: T21180.0021.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 4:57:07 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.31	C10	2.02	35644
54	4.22	Capric Acid	5.91	16916
107	8.02	O-terphenyl	0.54	10633
139	11.39	C-28	0.03	583

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	8.50	2120395.0
2	7.98	8.08	0.54	10633.4

********** RESULTS TABLE **********

DRO AREA = 2120395
DRO AMOUNT = 97.62265 PPM

% Difference #2 Fuel Oil Level 3 = -87.79717%

FILES:
Area File: T21180.0021.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 5:12:27 PM
File reported on: 7/2/2012 at 6:56:07 PM

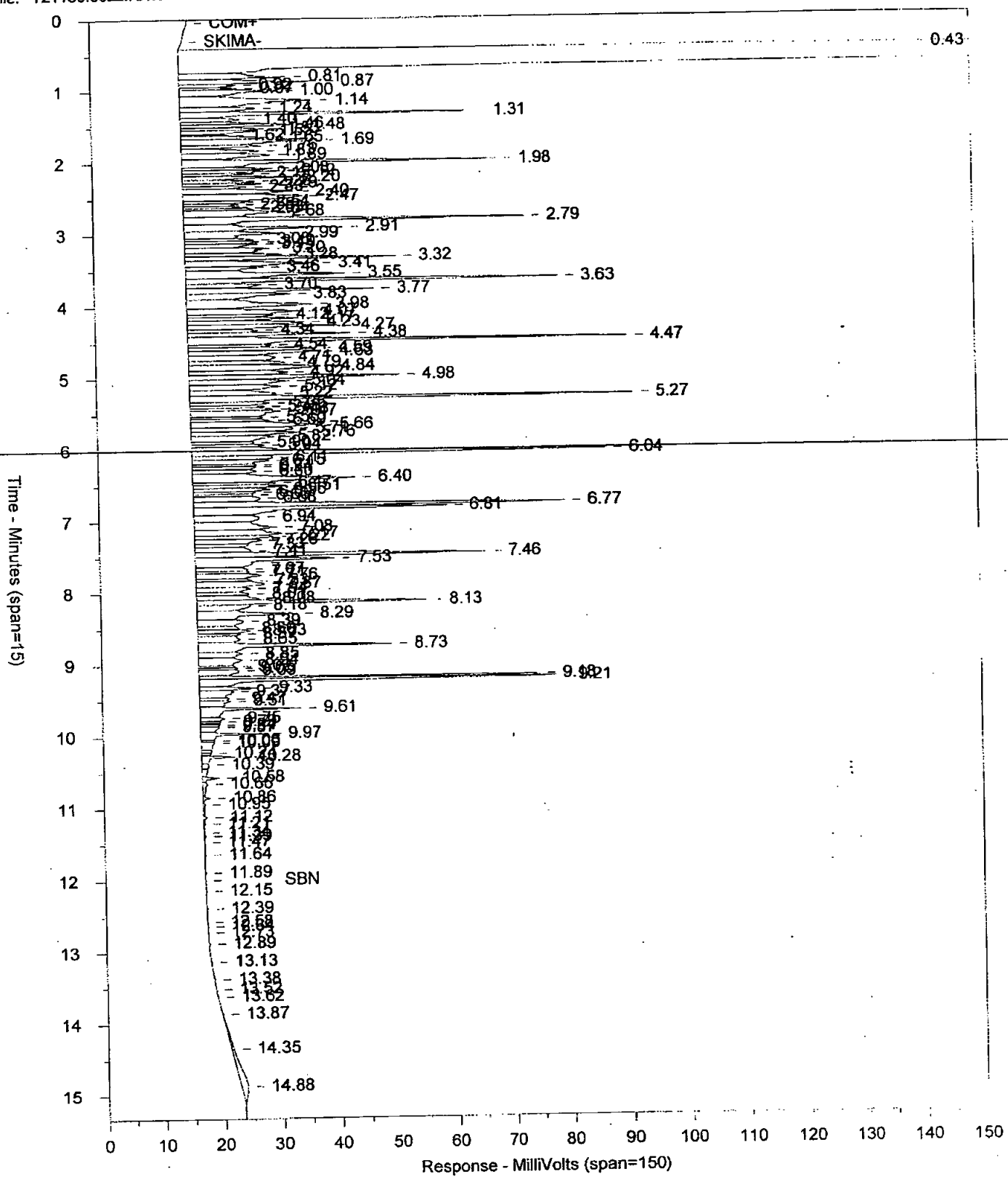
ASX73 2969

Chrom Perfect Chromatogram Report

Sample ID: 1FUL21232C AA1FUL2AA ICAL 1217999999

File: T21180.0022.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



ASX73 2979

Sample ID: 1FUL21232C AA1FUL2AA ICAL 1217999999
File: T21180.0022.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 5:19:12 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
9	1.31	C10	6.01	106332
56	4.23	Capric Acid	8.50	48638
115	8.01	O-terphenyl	1.29	25355
155	11.39	C-28	0.04	682

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	15.84	7060044.0
2	7.98	8.08	1.29	25354.8

********** RESULTS TABLE **********

DRO AREA = 7060044
DRO AMOUNT = 325.0432 PPM

% Difference #2 Fuel Oil Level 3 = -59.36959%

FILES:
Area File: T21180.0022.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 5:34:32 PM
File reported on: 7/2/2012 at 6:56:09 PM

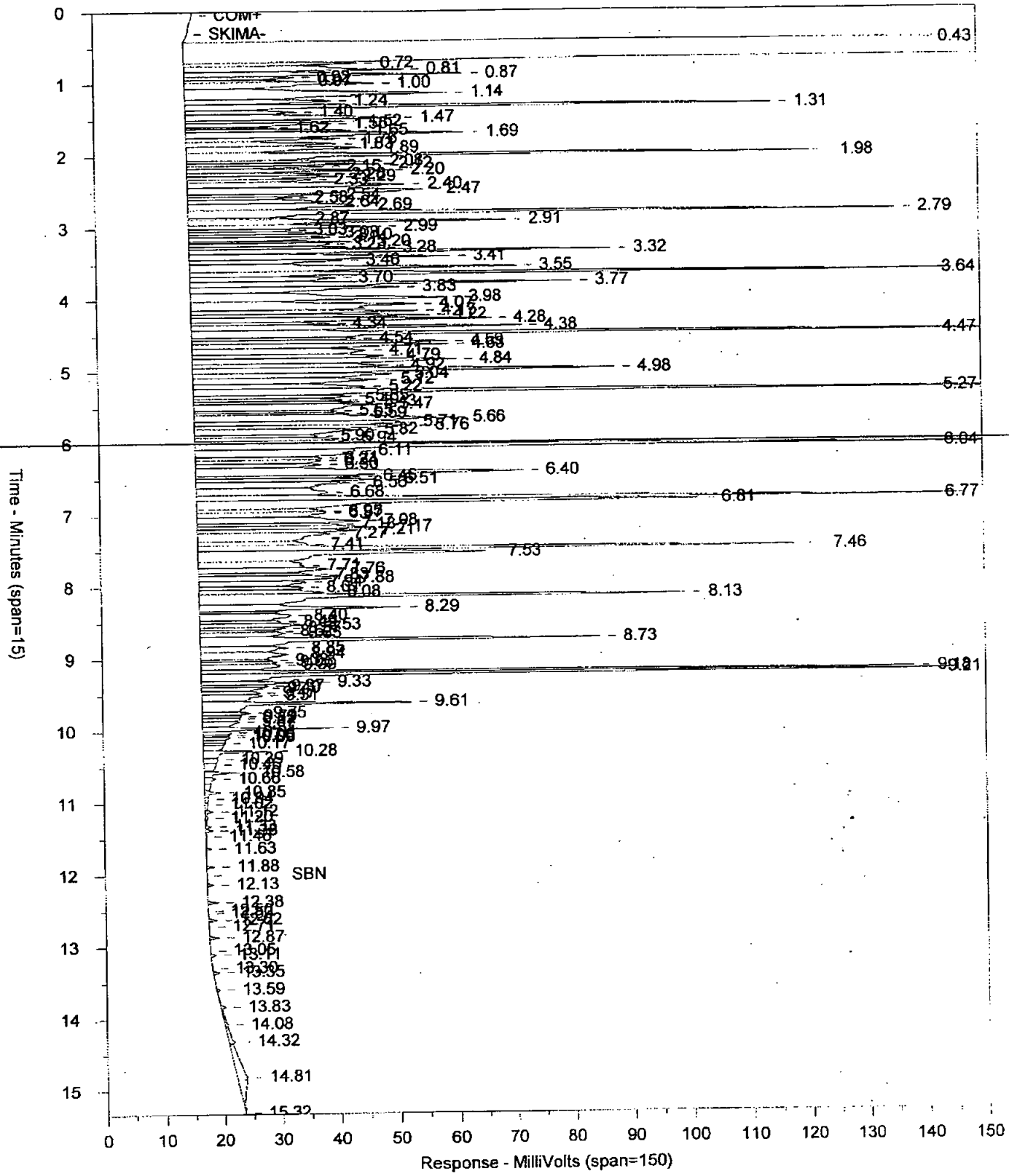
ASX73 2871

Chrom Perfect Chromatogram Report

Sample ID: 1FUL31232G AA1FUL3AA ICAL 1217999999

File: T21180.0023.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



ASX73 2072

Sample ID: 1FUL31232G AA1FUL3AA ICAL 1217999999
File: T21180.0023.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 5:41:15 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.31	C10	11.66	206159
57	4.22	Capric Acid	12.50	97676
113	8.01	O-terphenyl	2.62	51426
157	11.38	C-28	0.13	2154

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	26.90	14030020.0
2	7.98	8.08	2.62	51426.4

********** RESULTS TABLE **********

DRO AREA = 1.403002E+07
DRO AMOUNT = 645.9399 PPM

% Difference #2 Fuel Oil Level 3 = -19.25751%

FILES:
Area File: T21180.0023.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 5:56:36 PM
File reported on: 7/2/2012 at 6:56:11 PM

ASX73 2873

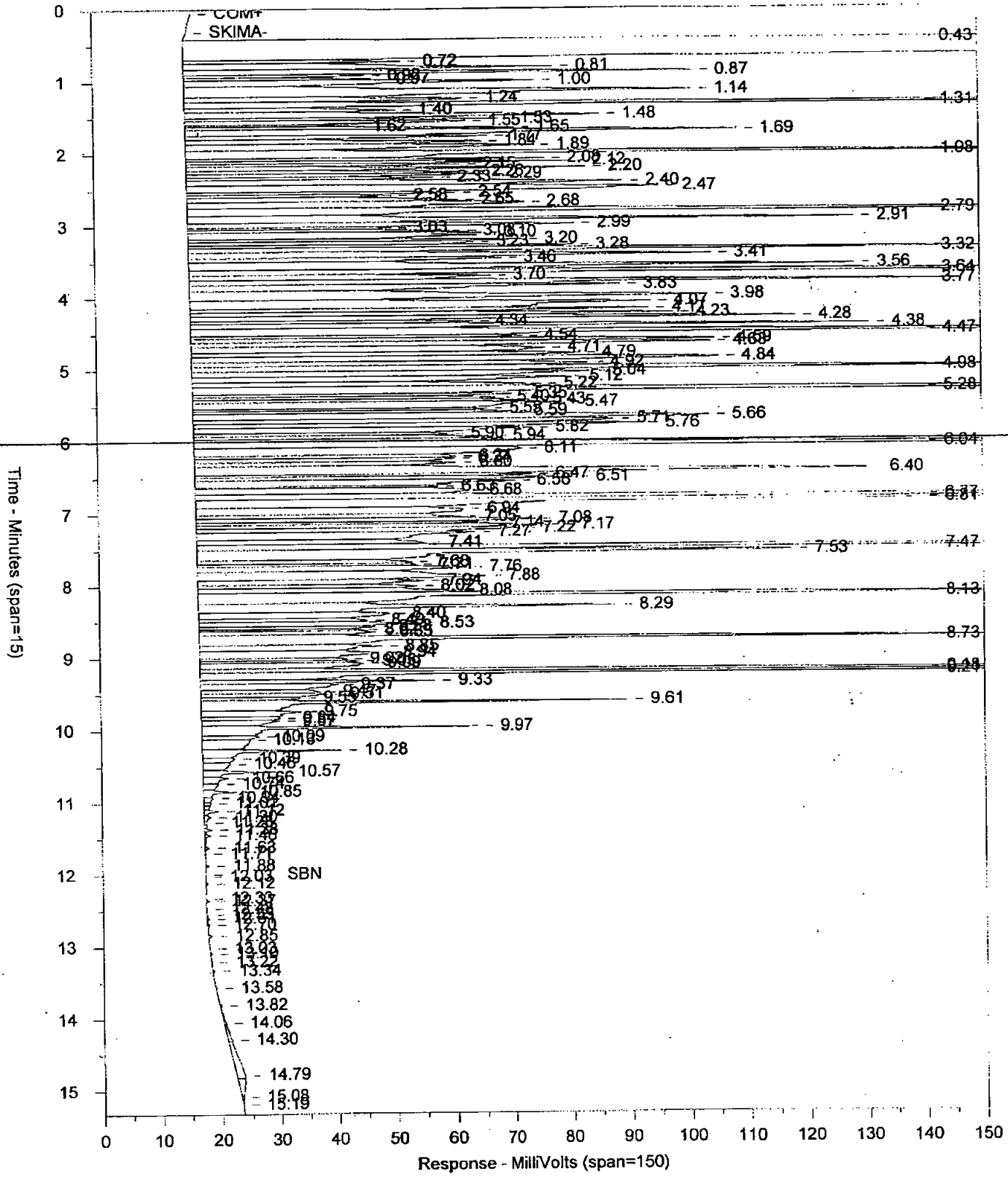
Chrom Perfect Chromatogram Report

Sample ID: 1FUL41232C AA1FUL4AA ICAL 1217999999

File: T21180.0024.RAW

ECY 97-602 NWTPH-Dx modified

TPH/DRO by 8015B, modified



ASX73 2874

Sample ID: 1FUL41232C AA1FUL4AA ICAL 1217999999
File: T21180.0024.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 6:03:21 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.31	C10	22.73	402021
55	4.23	Capric Acid	21.84	212214
112	8.02	O-terphenyl	4.77	93719
154	11.38	C-28	0.15	2554

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	49.49	28261140.0
2	7.98	8.08	4.77	93719.2

********** RESULTS TABLE **********

DRO AREA = 2.826114E+07
DRO AMOUNT = 1301.138 PPM

% Difference #2 Fuel Oil Level 3 = 62.64228%

FILES:
Area File: T21180.0024.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 6:18:43 PM
File reported on: 7/2/2012 at 6:56:13 PM

65473 2875

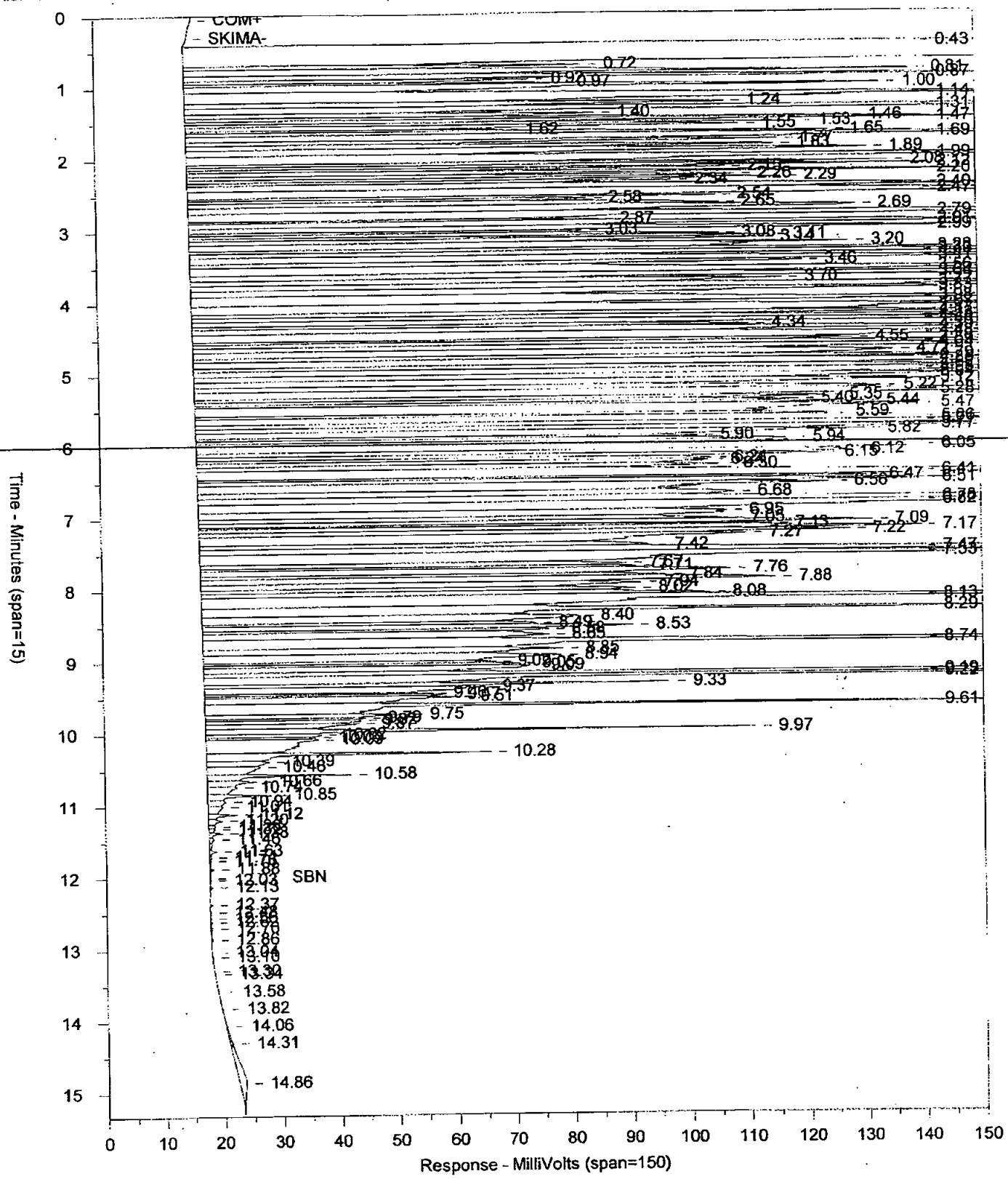
Chrom Perfect Chromatogram Report

Sample ID: 1FUL51232C AA1FUL5AA ICAL 1217999999

File: T21180.0025.RAW

ECY 97-602 NWTPH-Dx modified

TPH/DRO by 8015B, modified



ASX73 2076

Sample ID: 1FUL51232C AA1FUL5AA ICAL 1217999999
File: T21180.0025.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 6:25:25 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.31	C10	44.82	792763
57	4.23	Capric Acid	38.77	419782
114	8.02	O-terphenyl	9.64	189358
158	11.38	C-28	0.29	5031

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	93.53	56092650.0
2	7.98	8.08	9.64	189357.9

********** RESULTS TABLE **********

DRO AREA = 5.609265E+07
DRO AMOUNT = 2582.496 PPM

% Difference #2 Fuel Oil Level 3 = 222.812%

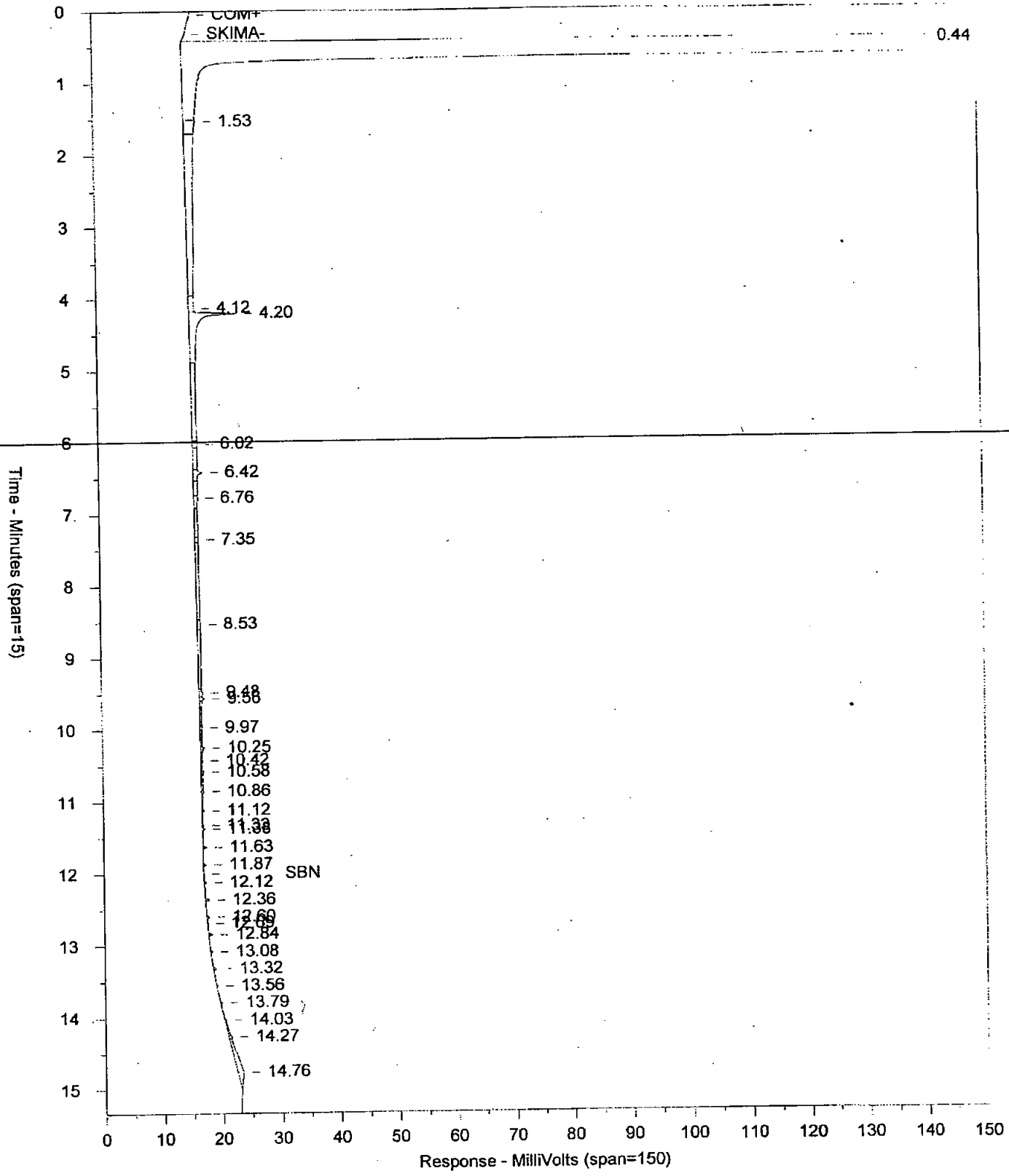
FILES:
Area File: T21180.0025.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 6:40:46 PM
File reported on: 7/2/2012 at 6:56:15 PM

ASX73 2877

Chrom Perfect Chromatogram Report

Sample ID: CAPR11232B AACAPR1AA ICAL 1217899999
File: T21180.0026.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



ASX73 2878

Chrom Perfect Chromatogram Report

Sample ID: CAPR11232B AACAPR1AA ICAL 1217899999
File: T21180.0026.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 6:47:34 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	4.20	Capric Acid	10.07	67958
19	11.38	C-28	0.05	930

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	10.13	156857.2
2	7.98	8.08	0.00	0.0

********** RESULTS TABLE **********

DRO AREA = 156857.2
DRO AMOUNT = 8.563594 PPM

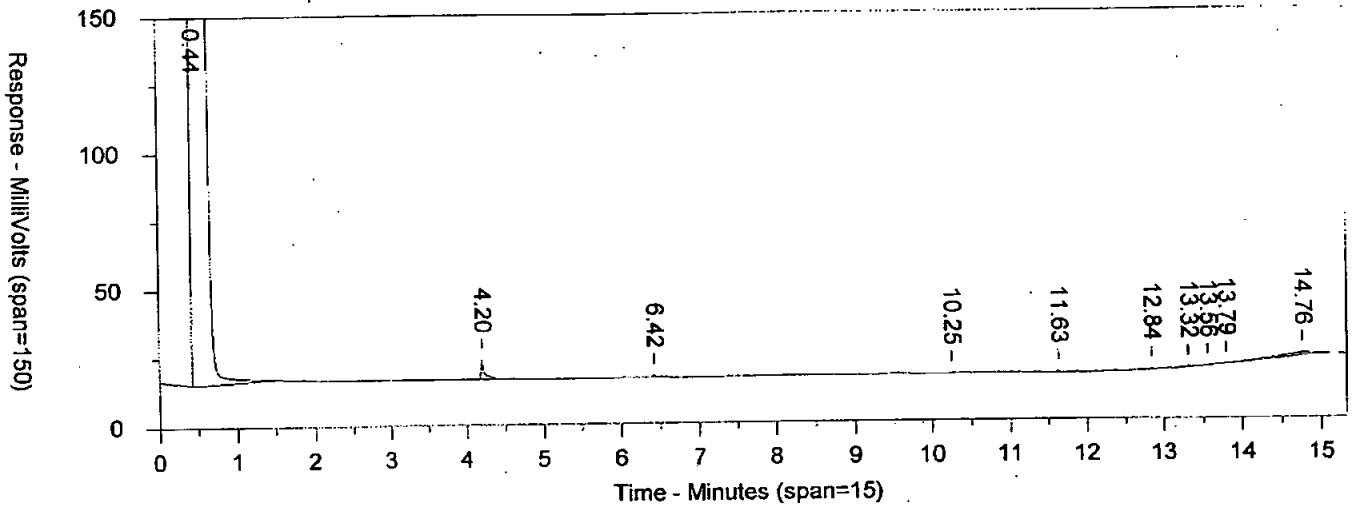
% Difference #2 Fuel Oil Level 3 = -98.92955%

FILES:
Area File: T21180.0026.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 7:02:54 PM
File reported on: 7/2/2012 at 7:07:49 PM

ASX73 2879

Chrom Perfect Chromatogram Report

Sample ID: CAPR11232B AACAPR1AA ICAL 1217899999 ECY 97-602 NWTPH-Dx modified
File: T21180.0026.RAW Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 6/28/2012 6:47:34 PM
Oven Parameters: 50C for 1min, 15C/min to 190C, 30C/min to 340C, Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

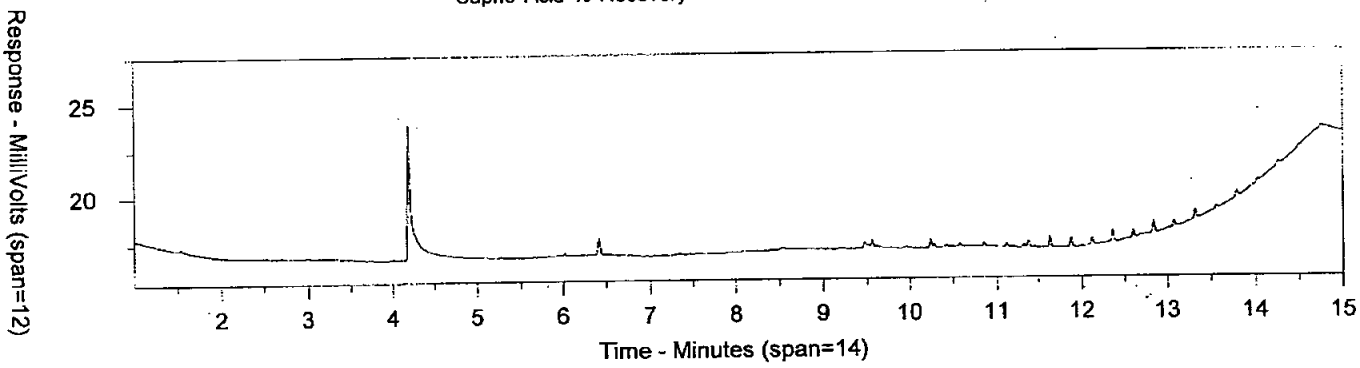
Sample Weight: 1
Dilution Factor: 1
Injection Volume: 1
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
2	4.20	Capric Acid	6.87	28724

********** Results Table **********

o-Terphenyl Level 3 % Difference = -100 %

WW o-Terphenyl % Recovery = 0 %
SW o-Terphenyl % Recovery = 0 %
Capric Acid % Recovery = 1.39155 %

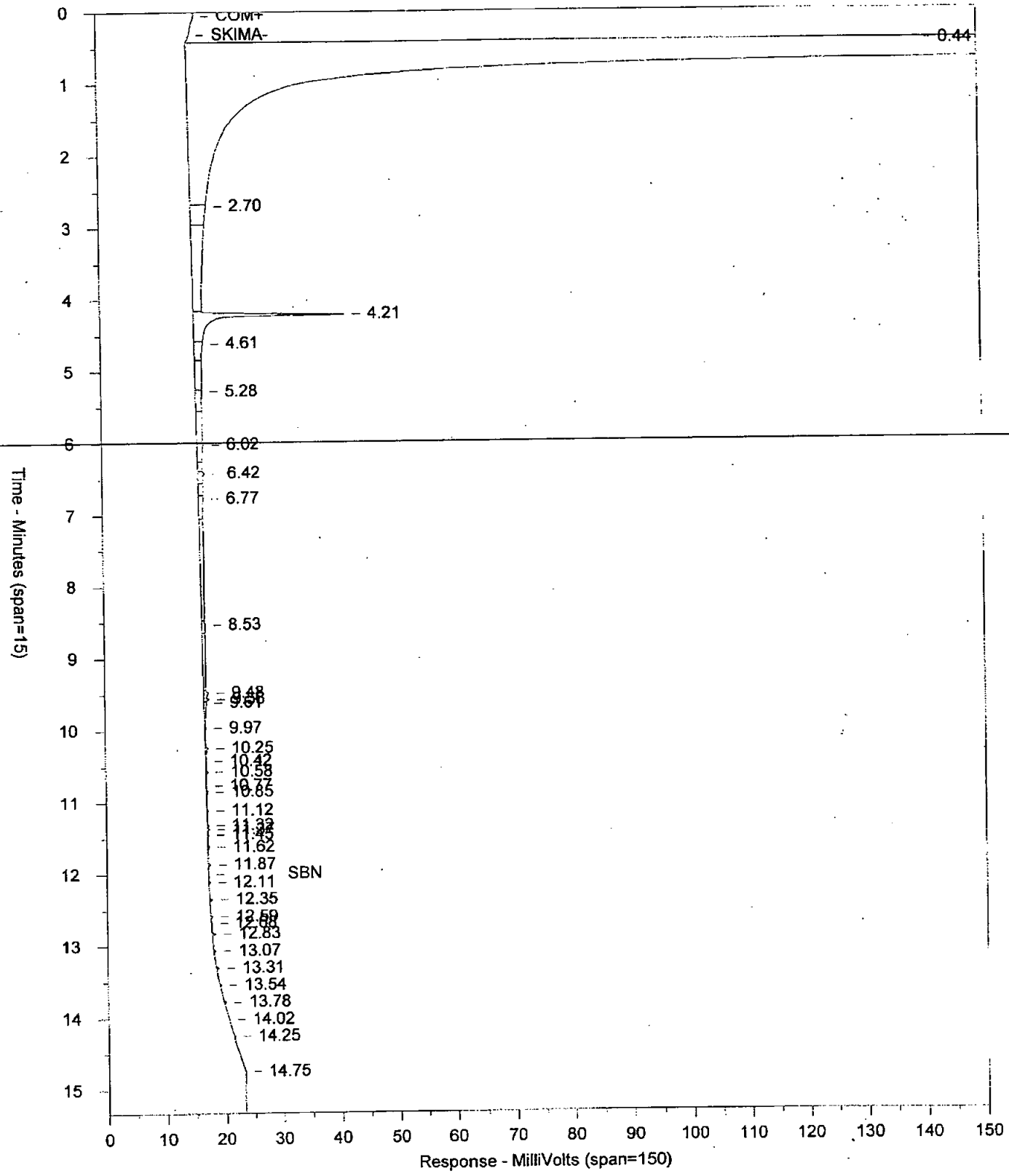


FILES:
Area File: T21180.0026.RAW
Area file created on: 6/28/2012 7:02:54 PM
File reported on: 7/2/2012 at 7:08:05 PM
Calibration File: 1FLS180A.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 2000

Chrom Perfect Chromatogram Report

Sample ID: CAPR21232C AACAPR2AA ICAL 1217899999 ECY 97-602 NWTPH-Dx modified
File: T21180.0027.RAW TPH/DRO by 8015B, modified



ASX73 2931

Sample ID: CAPR21232C AACAPR2AA ICAL 1217899999
File: T21180.0027.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 7:09:39 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
3	4.21	Capric Acid	12.79	101285
21	11.37	C-28	0.03	575

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	12.83	247718.5
2	7.98	8.08	0.00	0.0

********** RESULTS TABLE **********

DRO AREA = 247718.5
DRO AMOUNT = 13.52415 PPM

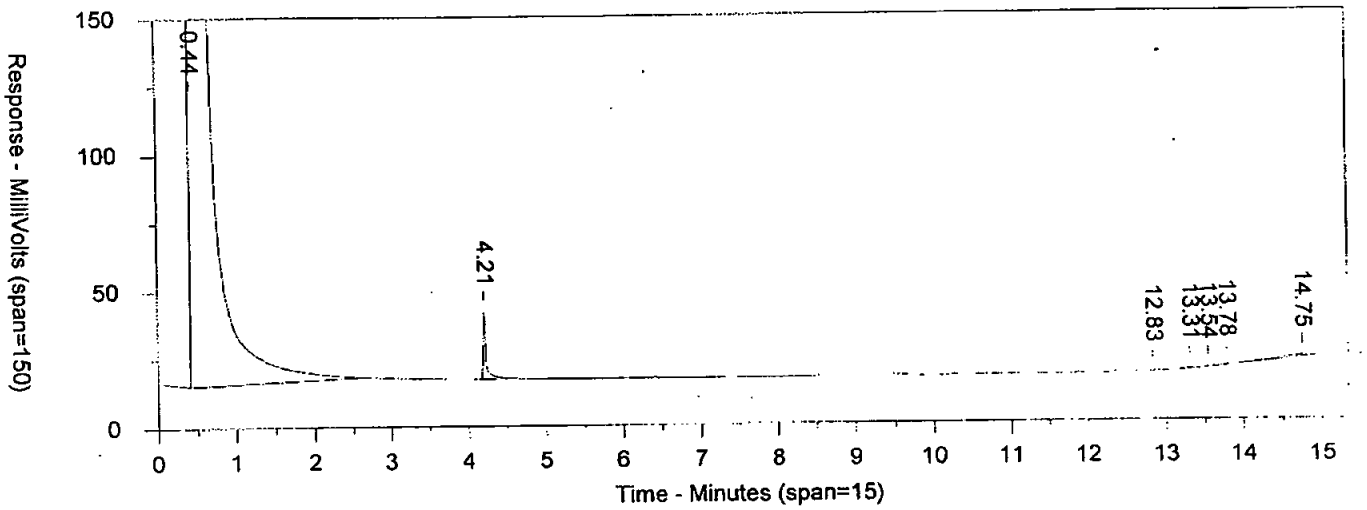
% Difference #2 Fuel Oil Level 3 = -98.30948%

FILES:
Area File: T21180.0027.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 7:25:00 PM
File reported on: 7/2/2012 at 7:07:51 PM

ASX73 2982

Chrom Perfect Chromatogram Report

Sample ID: CAPR21232C AACAPR2AA ICAL 1217899999 ECY 97-602 NWTPH-Dx modified
File: T21180.0027.RAW Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 6/28/2012 7:09:39 PM
Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

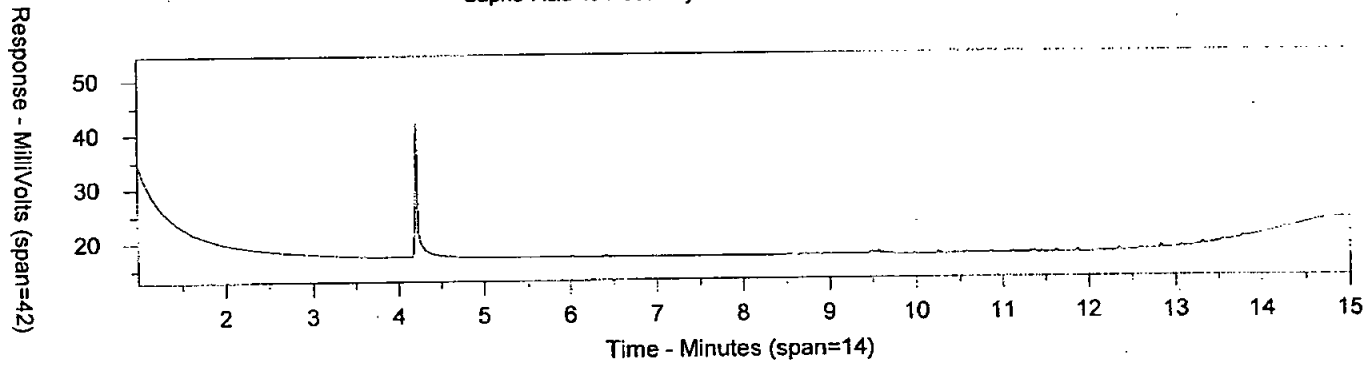
Sample Weight: 1
Dilution Factor: 1
Injection Volume: 1
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
2	4.21	Capric Acid	9.77	64250

********** Results Table **********

o-Terphenyl Level 3 % Difference = -100 %

WW o-Terphenyl % Recovery = 0 %
SW o-Terphenyl % Recovery = 0 %
Capric Acid % Recovery = 1.978099 %

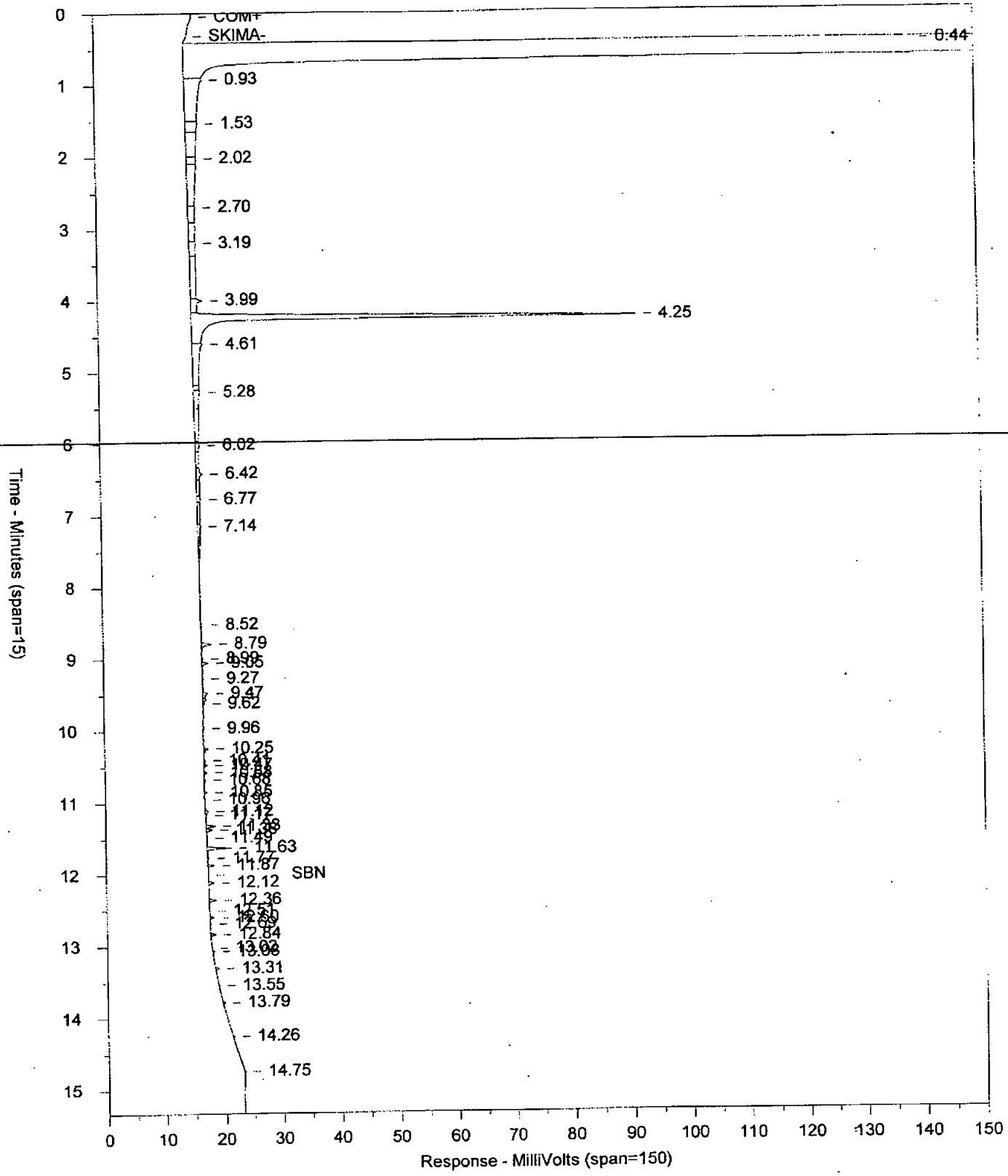


FILES:
Area File: T21180.0027.RAW
Area file created on: 6/28/2012 7:25:00 PM
File reported on: 7/2/2012 at 7:08:09 PM
Calibration File: 1FLS180A.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 2883

Chrom Perfect Chromatogram Report

Sample ID: CAPR31232B AACAPR3AA ICAL 1217899999 ECY 97-602 NWTPH-Dx modified
File: T21180.0028.RAW TPH/DRO by 8015B, modified



ASX73 2084

Chrom Perfect Chromatogram Report

Sample ID: CAPR31232B AACAPR3AA ICAL 1217899999
File: T21180.0028.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 7:31:47 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
8	4.25	Capric Acid	26.47	268933
33	11.38	C-28	0.10	1775

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	26.57	434857.6
2	7.98	8.08	0.00	0.0

********** RESULTS TABLE **********

DRO AREA = 434857.6
DRO AMOUNT = 23.74098 PPM

% Difference #2 Fuel Oil Level 3 = -97.03238%

FILES:
Area File: T21180.0028.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 7:47:08 PM
File reported on: 7/2/2012 at 7:07:53 PM

ASX73 2885

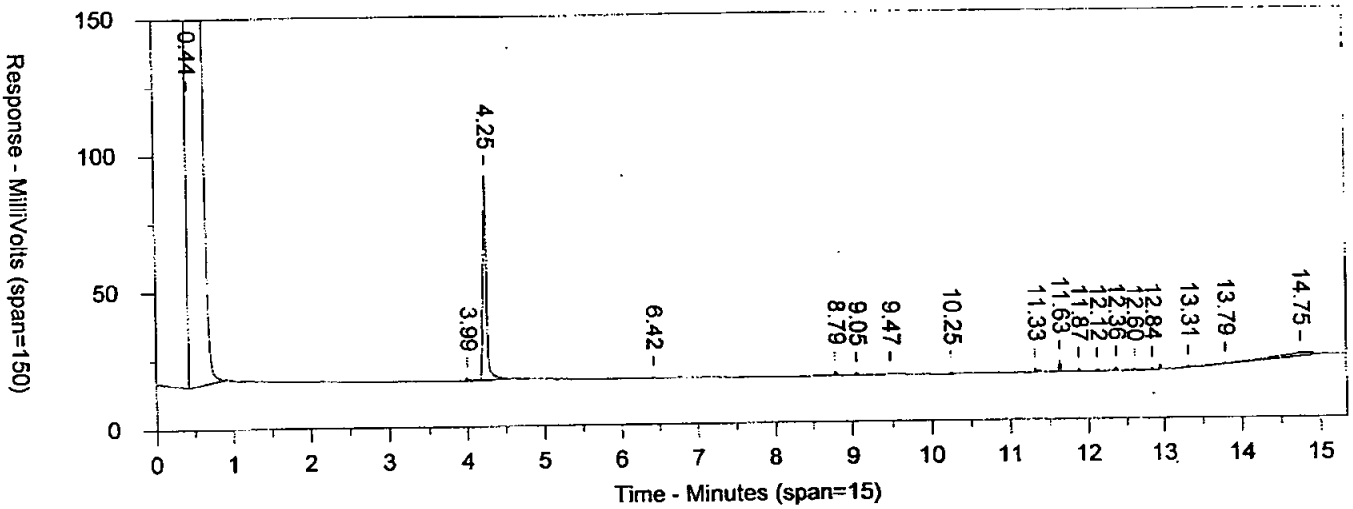
Chrom Perfect Chromatogram Report

Sample ID: CAPR31232B AACAPR3AA ICAL 1217899999

File: T21180.0028.RAW

ECY 97-602 NWTPH-Dx modified

Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 6/28/2012 7:31:47 PM
Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

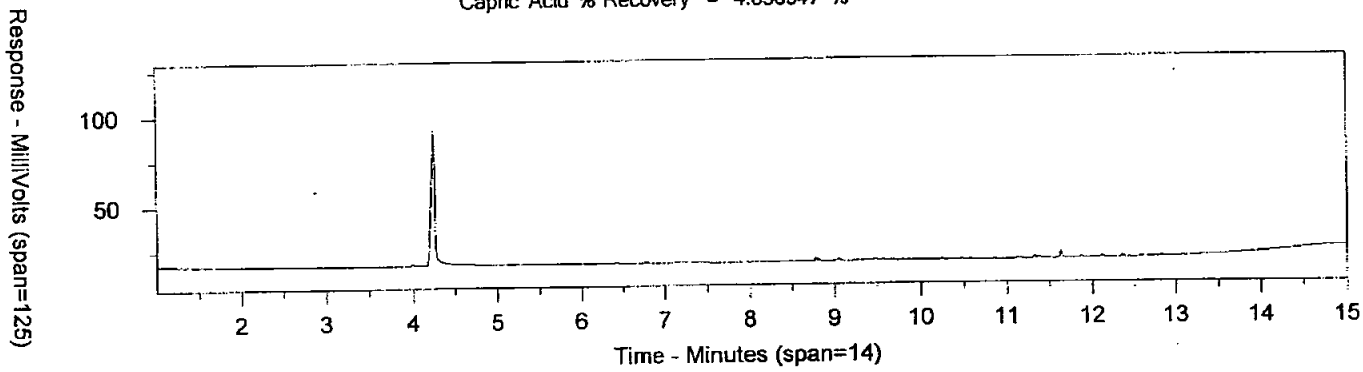
Sample Weight: 1
Dilution Factor: 1
Injection Volume: 1
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
3	4.25	Capric Acid	23.90	237520

********** Results Table **********

o-Terphenyl Level 3 % Difference = -100 %

WW o-Terphenyl % Recovery = 0 %
SW o-Terphenyl % Recovery = 0 %
Capric Acid % Recovery = 4.838847 %



FILES:
Area File: T21180.0028.RAW
Area file created on: 6/28/2012 7:47:08 PM
File reported on: 7/2/2012 at 7:08:13 PM
Calibration File: 1FLS180A.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

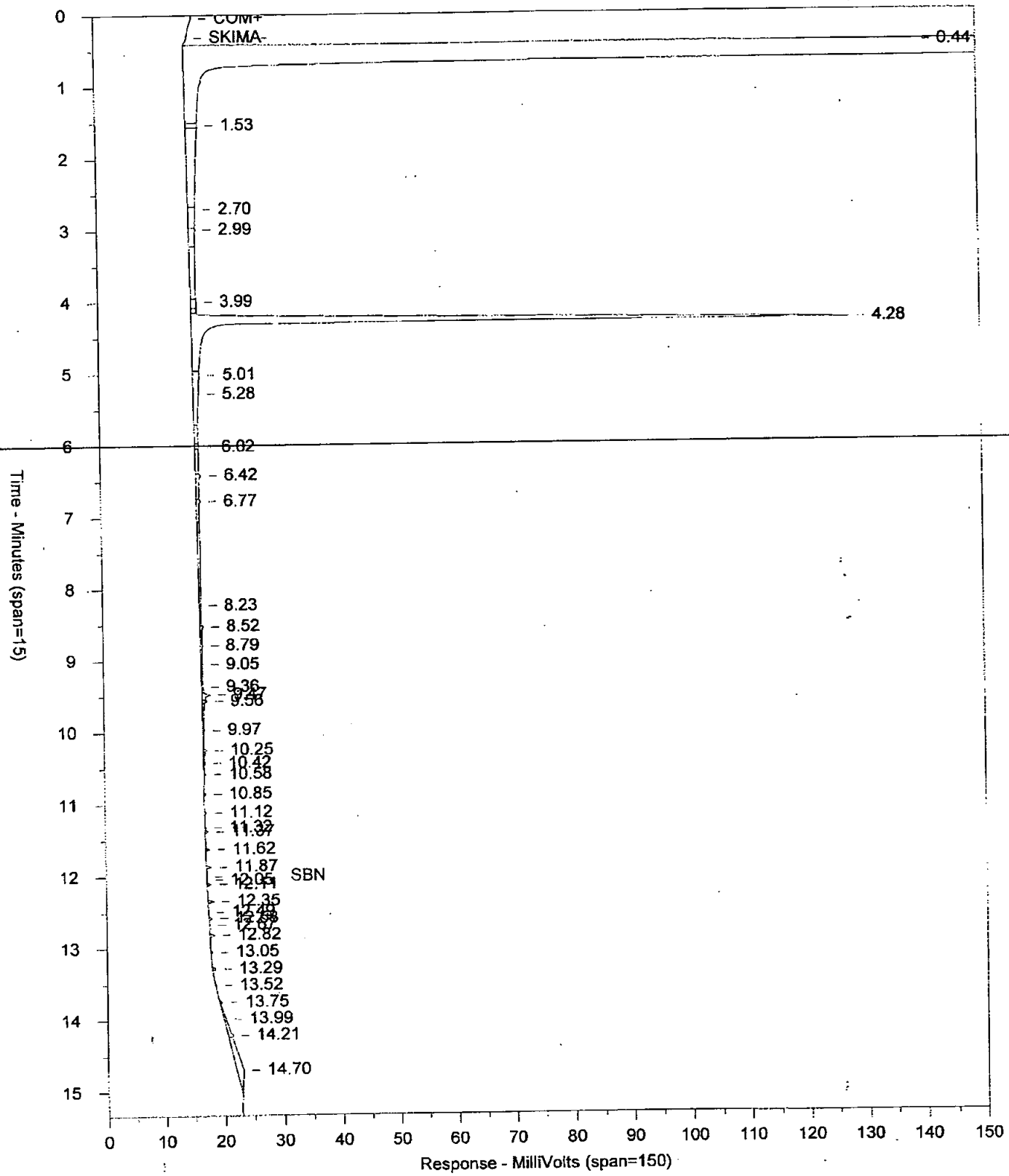
ASX73 2886

Chrom Perfect Chromatogram Report

Sample ID: CAPR41232B AACAPR4AA ICAL 1217899999

File: T21180.0029.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



Printed on 7/2/2012 7:07:55 PM

ASX73 2987

Sample ID: CAPR41232B AACAPR4AA ICAL 1217899999
File: T21180.0029.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 7:53:53 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
6	4.28	Capric Acid	43.46	477339
26	11.37	C-28	0.05	907

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	43.52	615453.3
2	7.98	8.08	0.00	0.0

********** RESULTS TABLE **********

DRO AREA = 615453.3
DRO AMOUNT = 33.60057 PPM

% Difference #2 Fuel Oil Level 3 = -95.79993%

FILES:
Area File: T21180.0029.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 8:09:15 PM
File reported on: 7/2/2012 at 7:07:55 PM

ASX73 2888

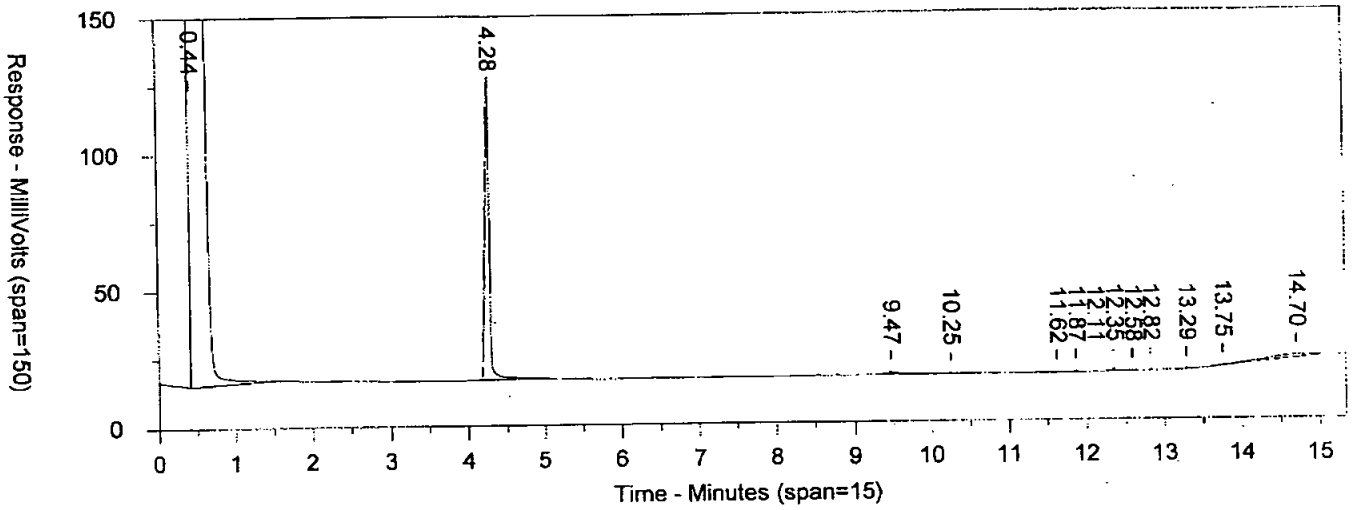
Chrom Perfect Chromatogram Report

Sample ID: CAPR41232B AACAPR4AA ICAL 1217899999

File: T21180.0029.RAW

ECY 97-602 NWTPH-Dx modified

Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 6/28/2012 7:53:53 PM
Oven Parameters: 50C for 1min, 15C/min to 190C, 30C/min to 340C, Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

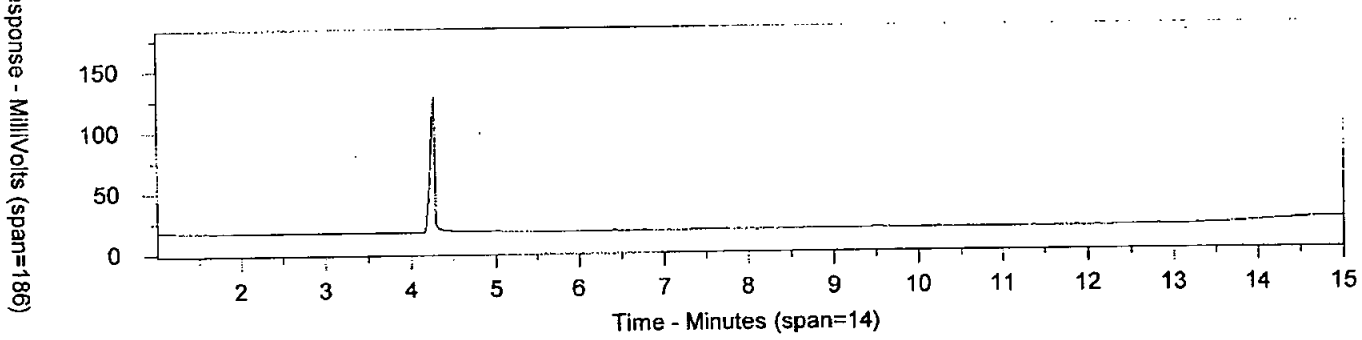
Sample Weight: 1
Dilution Factor: 1
Injection Volume: 1
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
2	4.28	Capric Acid	39.40	427460

********** Results Table **********

o-Terphenyl Level 3 % Difference = -100 %

WW o-Terphenyl % Recovery = 0 %
SW o-Terphenyl % Recovery = 0 %
Capric Acid % Recovery = 7.974833 %



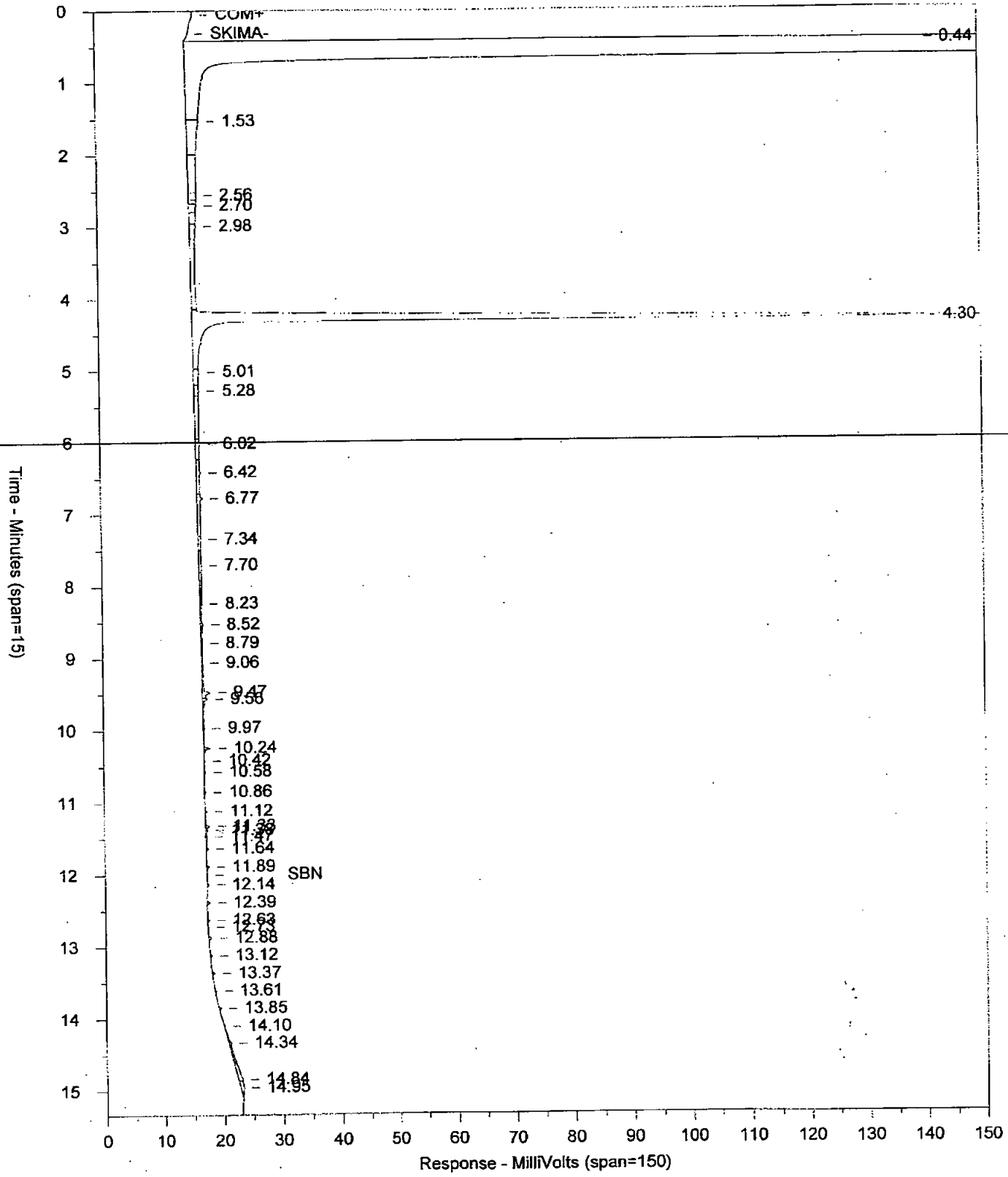
FILES:
Area File: T21180.0029.RAW
Area file created on: 6/28/2012 8:09:15 PM
File reported on: 7/2/2012 at 7:08:17 PM
Calibration File: 1FLS180A.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 2889

Chrom Perfect Chromatogram Report

Sample ID: CAPR51232B AACAPR5AA ICAL 1217899999
File: T21180.0030.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



ASX73 2090

Sample ID: CAPR51232B AACAPR5AA ICAL 1217899999
File: T21180.0030.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 8:16:04 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
6	4.30	Capric Acid	56.69	639543
27	11.38	C-28	0.04	.748

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	56.74	791868.6
2	7.98	8.08	0.00	0.0

********** RESULTS TABLE **********

DRO AREA = 791868.6
DRO AMOUNT = 43.23194 PPM

% Difference #2 Fuel Oil Level 3 = -94.59601%

FILES:
Area File: T21180.0030.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 8:31:24 PM
File reported on: 7/2/2012 at 7:07:57 PM

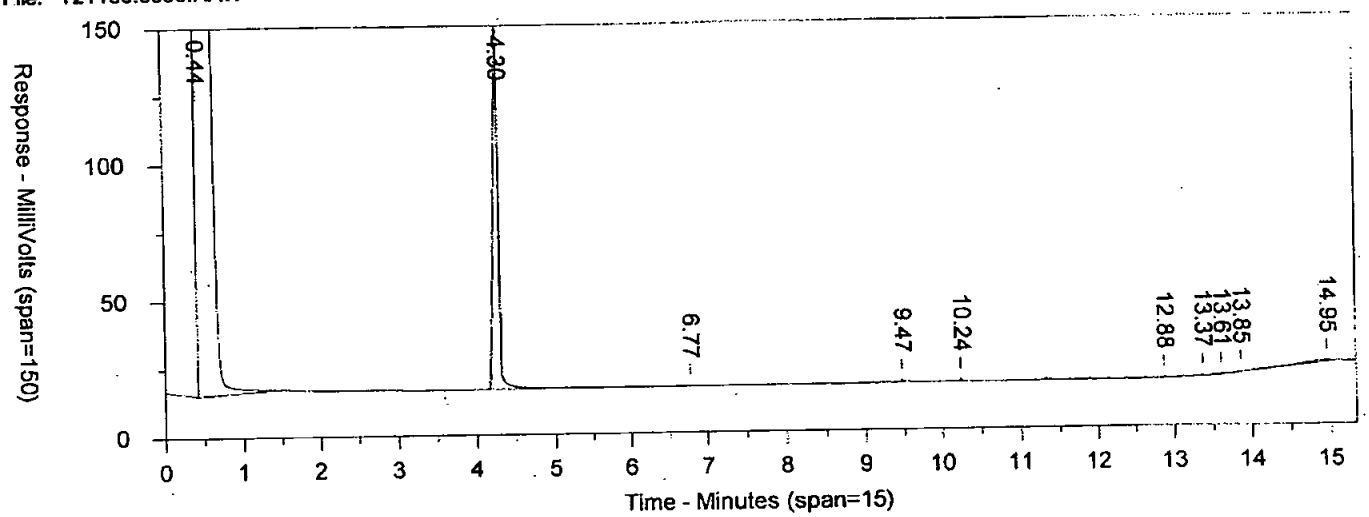
0SX73 2991

Chrom Perfect Chromatogram Report

Sample ID: CAPR51232B AACAPR5AA ICAL 1217899999

File: T21180.0030.RAW

ECY 97-602 NWTPH-Dx modified
Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 6/28/2012 8:16:04 PM
~~Oven Parameters: 50C for 1min, 15C/min to 190C, 30C/min to 340C, Hold 2min~~
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

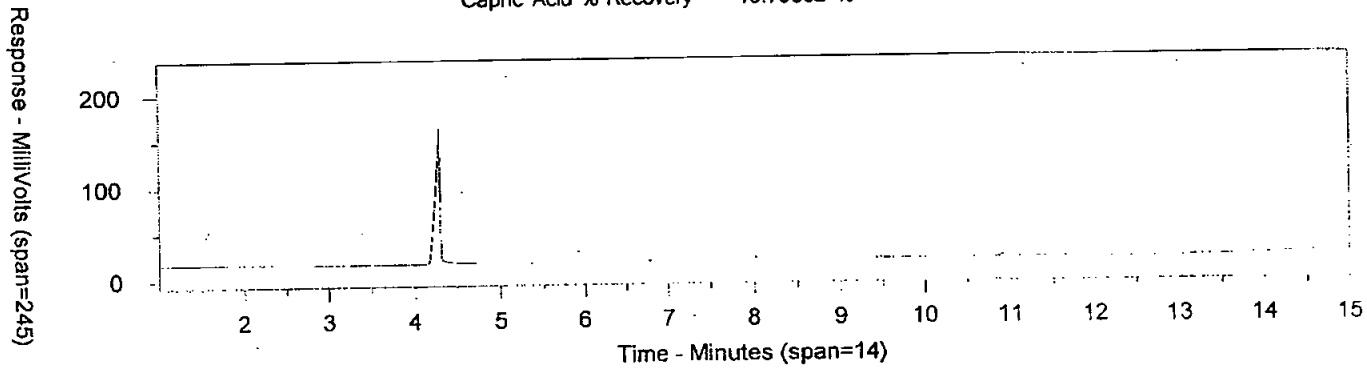
Sample Weight: 1
Dilution Factor: 1
~~Injection Volume: 1~~
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
2	4.30	Capric Acid	53.35	598491

********** Results Table **********

o-Terphenyl Level 3 % Difference = -100 %

WW o-Terphenyl % Recovery = 0 %
SW o-Terphenyl % Recovery = 0 %
Capric Acid % Recovery = 10.79862 %



FILES:
Area File: T21180.0030.RAW
Area file created on: 6/28/2012 8:31:24 PM
File reported on: 7/2/2012 at 7:08:21 PM
Calibration File: 1FLS180A.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

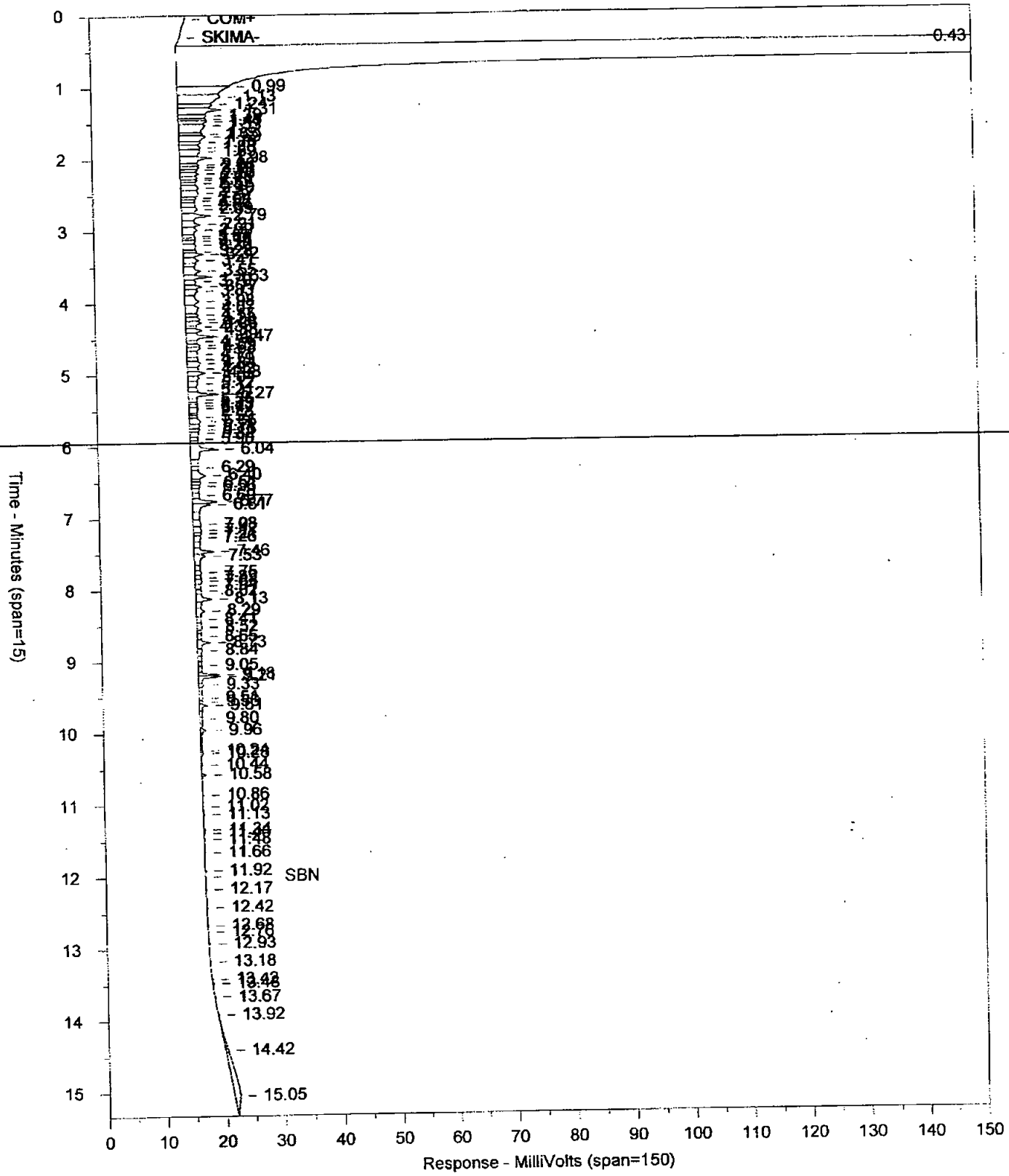
ASX73 2092

Chrom Perfect Chromatogram Report

Sample ID: 1MDLX1232A LP1MDLXLP CCAL 1217999999

File: T21180.0036.RAW

ECY 97-602 NWTPH-Dx modified
TPH/DRO by 8015B, modified



ASX73 2893

Sample ID: 1MDLX1232A LP1MDLXLP CCAL 1217999999 ECY 97-602 NWTPH-Dx modified
File: T21180.0036.RAW TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 10:54:46 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
5	1.31	C10	1.80	30143
47	4.23	Capric Acid	5.17	7799
92	8.02	O-terphenyl	0.18	3631
117	11.40	C-28	0.02	329

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	7.18	905685.8
2	7.98	8.08	0.18	3630.9

********** RESULTS TABLE **********

DRO AREA = 905685.8
DRO AMOUNT = 49.44577 PPM

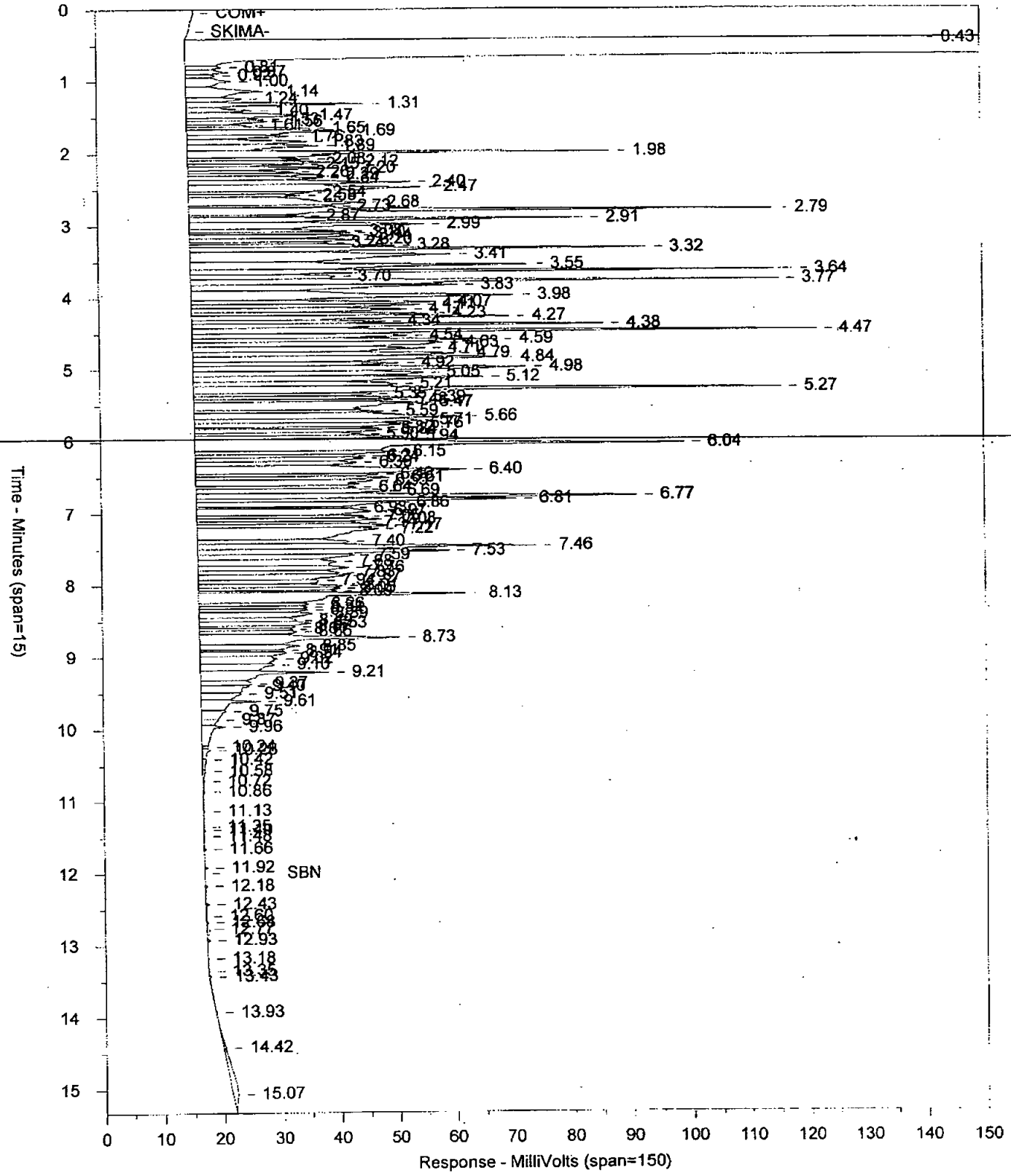
% Difference #2 Fuel Oil Level 3 = -93.81927%

FILES:
Area File: T21180.0036.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 11:10:06 PM
File reported on: 7/2/2012 at 7:07:59 PM

ASX73 2054

Chrom Perfect Chromatogram Report

Sample ID: 1FLKX1232B RM1FLKXRM CCAL 1217999999 ECY 97-602 NWTPH-Dx modified
File: T21180.0037.RAW TPH/DRO by 8015B, modified



ASX73 2895

Sample ID: 1FLKX1232B RM1FLKXRM CCAL 1217999999 ECY 97-602 NWTPH-Dx modified
File: T21180.0037.RAW TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 6/28/2012 11:16:48 PM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
8	1.31	C10	4.13	69017
54	4.23	Capric Acid	12.01	91712
113	8.01	O-terphenyl	3.40	66829
148	11.40	C-28	0.03	494

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.22	11.50	19.57	13651330.0
2	7.98	8.08	3.40	122428.1

********** RESULTS TABLE **********

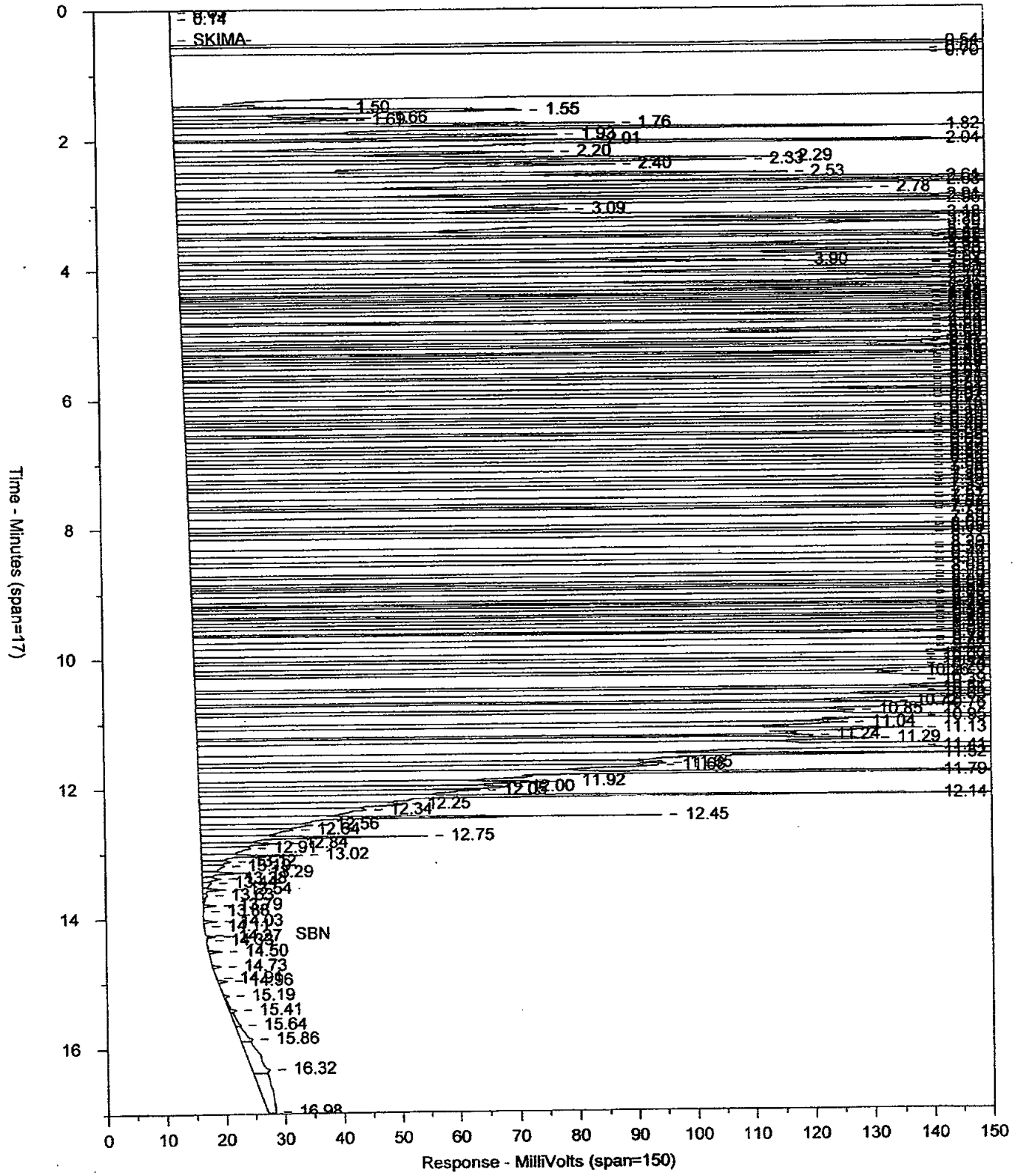
DRO AREA = 1.365133E+07
DRO AMOUNT = 745.2919 PPM

% Difference #2 Fuel Oil Level 3 = -6.838507%

FILES:
Area File: T21180.0037.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180A.CAL
Format File: 1FulSchk.fmt
Area file created on: 6/28/2012 11:32:08 PM
File reported on: 7/2/2012 at 7:08:01 PM

ASX73 2896

2FUL41232H SE2FUL4SE CCAL 1220099999 SW-846 8015B
D18201.0040.RAW



ASX73 2897

Sample Number: 2FUL41232H SE2FUL4SE CCAL 1220099999 Sample Weight: 1 SW-846 8015B
Injected On: 7/20/2012 6:05:04 AM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.96	23.49	1076356
Capric Acid	6.56	13.29	342226
O-terphenyl	10.39	51.78	2329488
C28	13.54	0.20	8566.272

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	102362600

RESULTS

DRO C10-C28 AREA = 102362600

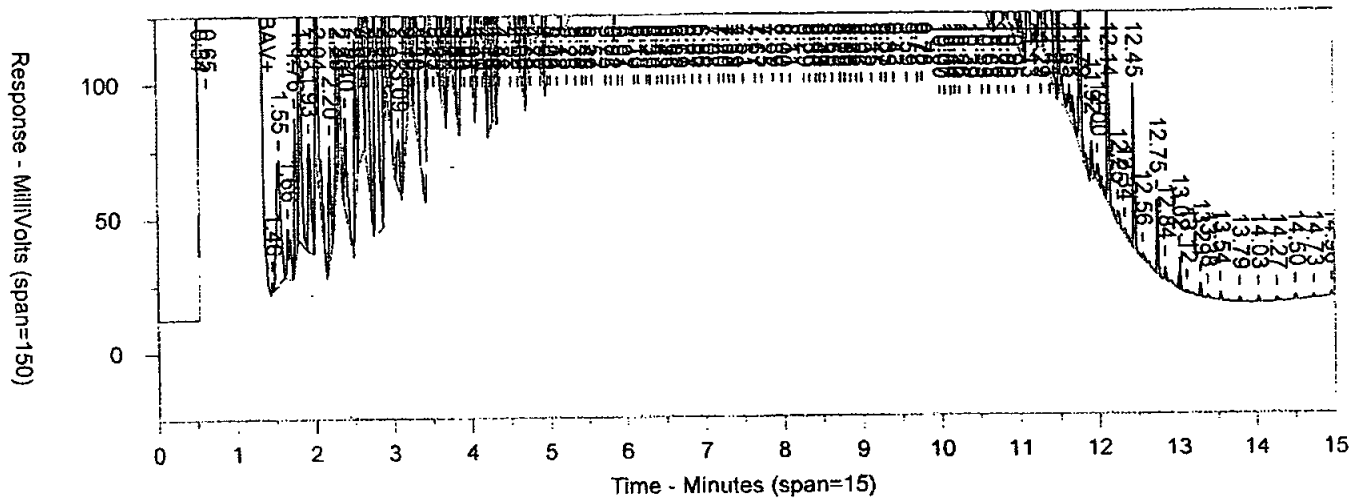
Prelim DRO AMOUNT = 2603.34 PPM

#2 FUEL LEVEL 4 %D = 4.13%

Area File: D18201.0040.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/20/2012 6:22:26 AM
File Reported On: 7/23/2012 at 1:39:40 PM

ASX73 2998

2FUL41232H SE2FUL4SE CCAL 1220099999 D18201.0040.RAW SW-846 8015B



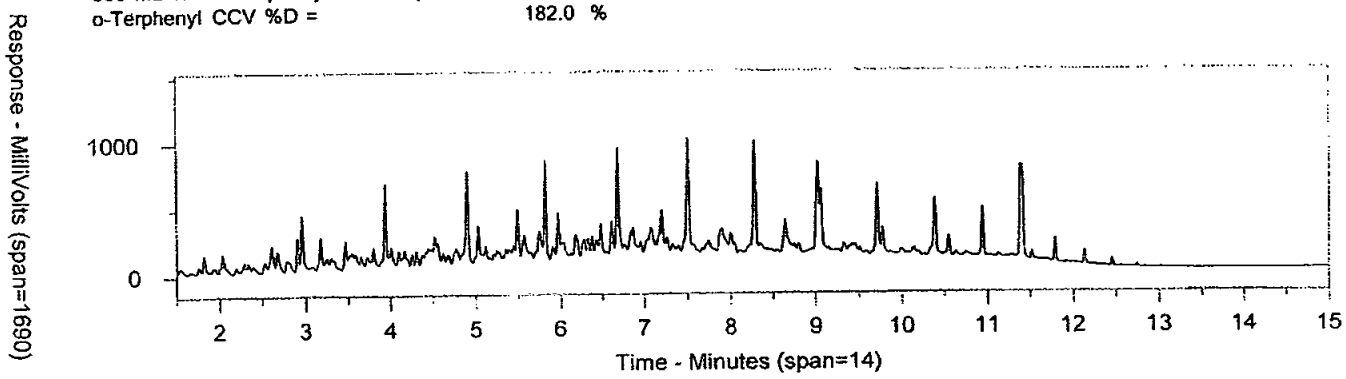
Sample Number: 2FUL41232H SE2FUL4SE CCAL 1220099999
Injected On: 7/20/2012 6:05:04 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.96	13.3980	613891.9
Capric Acid	6.56	0.3716	9567.001
O-terphenyl	10.39	22.5587	1014967
C28	13.54	0.1140	4824.861

1000 mL WW & SW o-Terphenyl Recovery =188.0 %
500 mL WW o-Terphenyl Recovery = 376.0 %
o-Terphenyl CCV %D = 182.0 %

1000 ML CAPRIC ACID % RECOVERY = 0.0 %
500 ML CAPRIC ACID % RECOVERY = 0.0 %

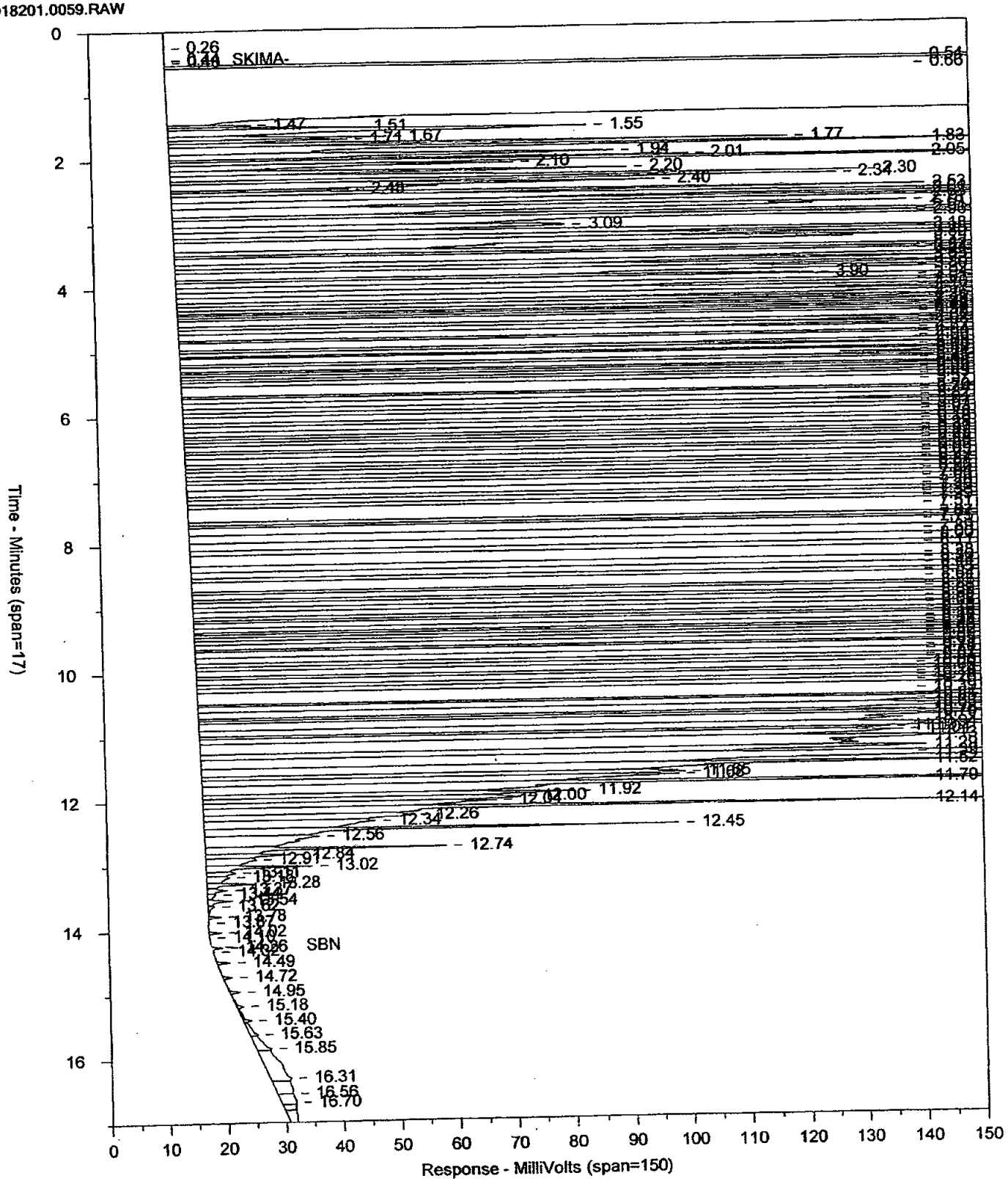


Area File: D18201.0040.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/20/2012 6:22:26 AM
File Reported On: 7/23/2012 at 2:39:06 PM

ASX73 2999

2FUL41232H SF2FUL4SF CCAL 1220099999 SW-846 8015B
D18201.0059.RAW



Printed on 7/23/2012 1:40:20 PM

ASX73 2100

Sample Number: 2FUL41232H SF2FUL4SF CCAL 1220099999 Sample Weight: 1 SW-846 8015B
Injected On: 7/20/2012 1:30:43 PM Dilution Factor: 1
Instrument ID: CP18-18847
Oven Parameters:50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.96	23.87	1093532
Capric Acid	6.56	15.49	398909.2
O-terphenyl	10.39	52.53	2363533
C28	13.54	0.24	10319.72

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	106148800

RESULTS

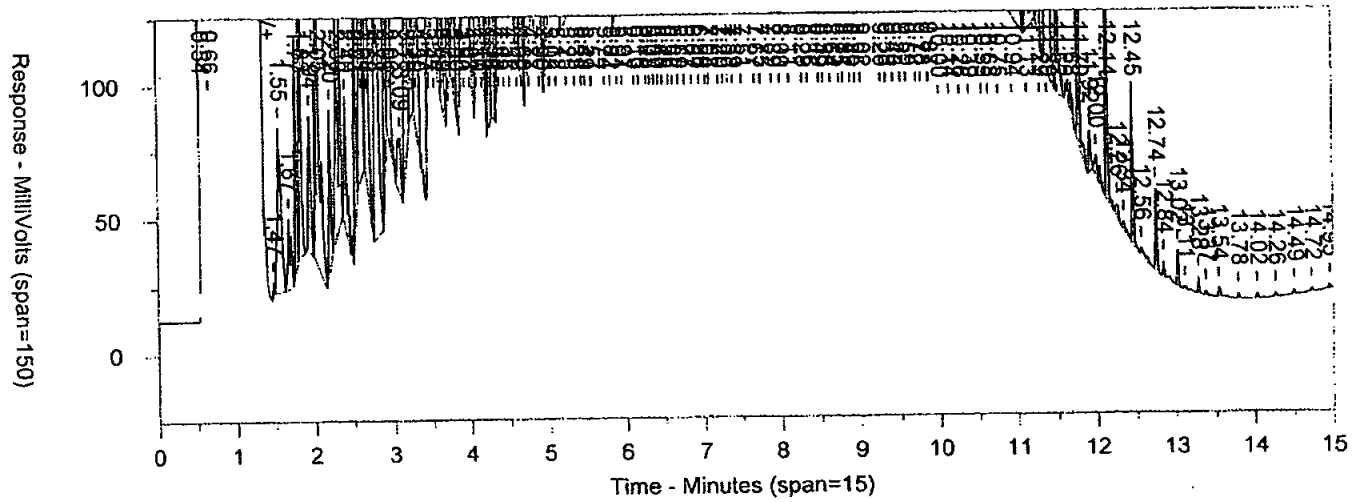
DRO C10-C28 AREA = 106148800

Prelim DRO AMOUNT = 2699.63 PPM

#2 FUEL LEVEL 4 %D = 7.99%

Area File: D18201.0059.RAW
Method: 2FULHCHK.MET
Calibration File: 2FULH193A.CAL
Format: 2FULHCHK.FMT
Area File Created On: 7/20/2012 1:48:04 PM
File Reported On: 7/23/2012 at 1:40:20 PM

2FUL41232H SF2FUL4SF CCAL 1220099999 D18201.0059.RAW SW-846 8015B



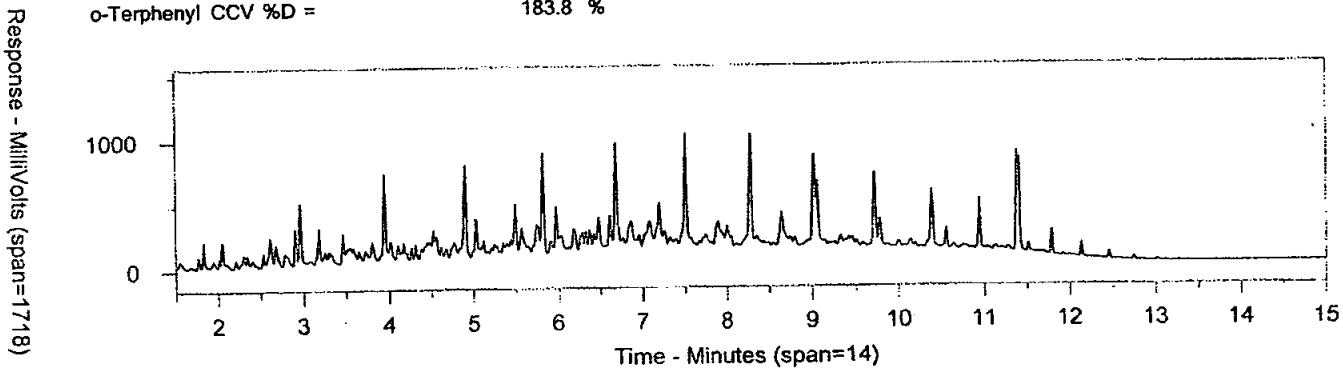
Sample Number: 2FUL41232H SF2FUL4SF CCAL 1220099999
Injected On: 7/20/2012 1:30:43 PM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: SW-846 8015B
Dilution Factor: 1
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.96	15.0321	688766
Capric Acid	6.56	0.3172	8167.363
O-terphenyl	10.39	22.7020	1021414
C28	13.54	0.1360	5757.502

1000 mL WW & SW o-Terphenyl Recovery = 189.2 %
500 mL WW o-Terphenyl Recovery = 378.4 %
o-Terphenyl CCV %D = 183.8 %

1000 ML CAPRIC ACID % RECOVERY = 0.0 %
500 ML CAPRIC ACID % RECOVERY = 0.0 %

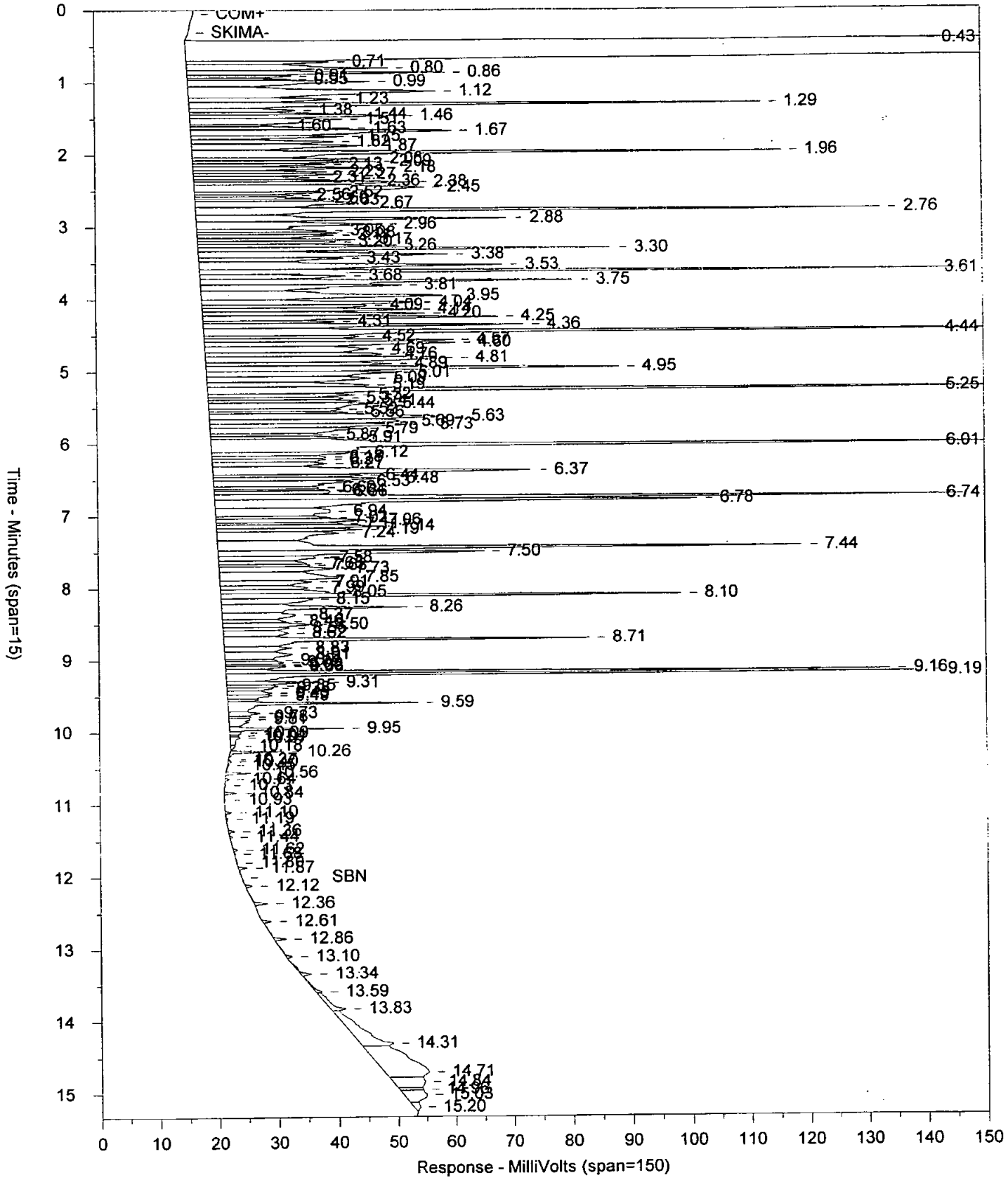


Area File: D18201.0059.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/20/2012 1:48:04 PM
File Reported On: 7/23/2012 at 2:39:46 PM

ASX73 2182

Sample ID: 1FUL31232G DX1FUL3DX CCAL 1220599999 SW-846 8015B
File: T21207.0027.RAW TPH/DRO by 8015B, modified



ASX73 2163

Sample ID: 1FUL31232G DX1FUL3DX CCAL 1220599999 SW-846 8015B
File: T21207.0027.RAW TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 7/26/2012 1:34:07 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.29	C10	12.16	203187
59	4.25	Capric Acid	15.25	131432
116	7.99	O-terphenyl	2.27	44647
160	11.36	C-28	0.11	1829

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	29.79	12645630.0
2	7.95	8.05	2.27	44647.2

********** RESULTS TABLE **********

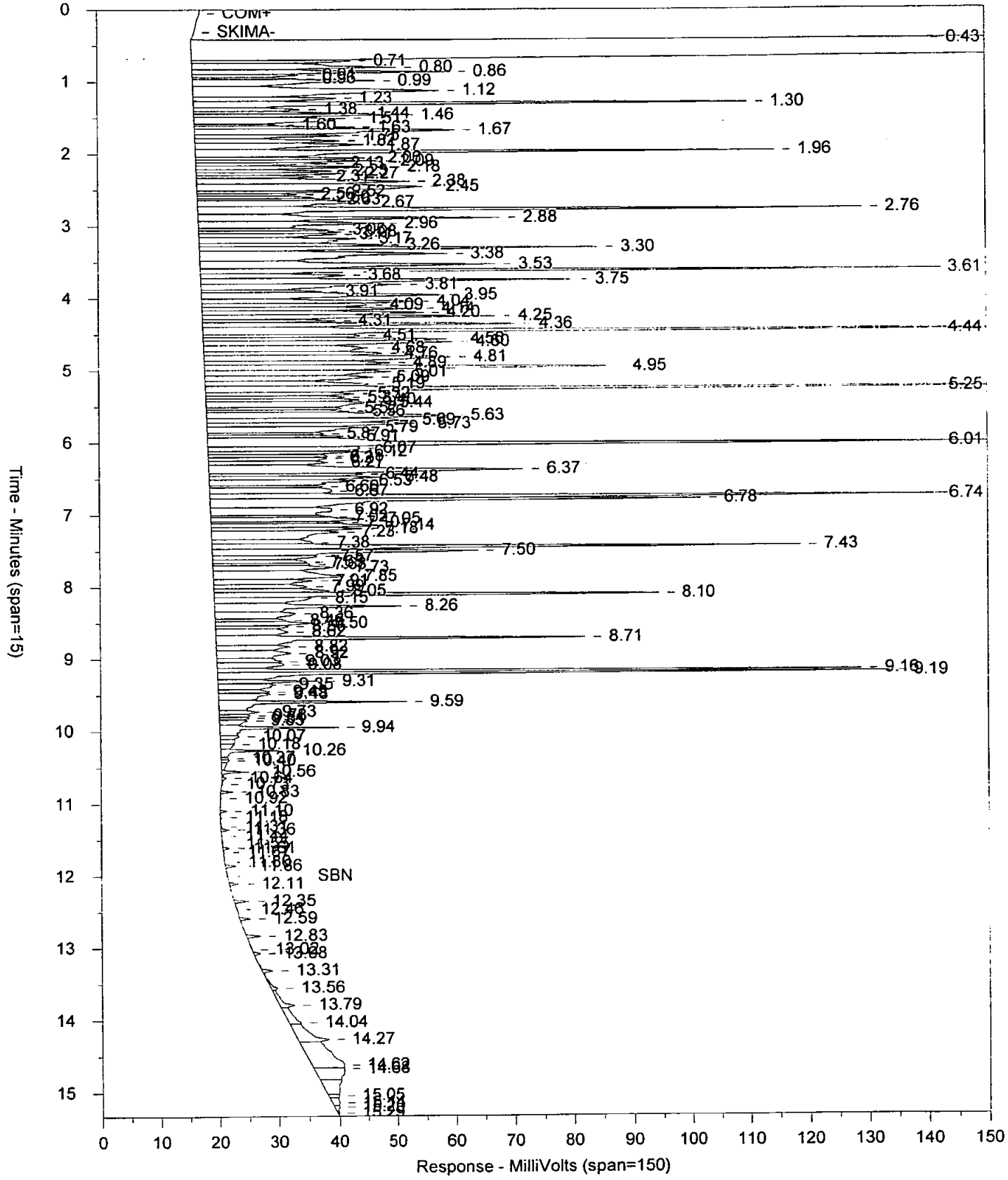
DRO AREA = 1.264563E+07
DRO AMOUNT = 690.3862 PPM

% Difference #2 Fuel Oil Level 3 = -13.70173%

FILES:
Area File: T21207.0027.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180B.CAL
Format File: 1FulSchk.fmt
Area file created on: 7/26/2012 1:49:29 AM
File reported on: 7/26/2012 at 1:49:34 AM

ASX73 2194

Sample ID: 1FUL31232G DY1FUL3DY CCAL 1220599999 SW-846 8015B
File: T21207.0039.RAW TPH/DRO by 8015B, modified



ASX73 2195

Sample ID: 1FUL31232G DY1FUL3DY CCAL 1220599999 SW-846 8015B
File: T21207.0039.RAW TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 7/26/2012 5:48:54 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.30	C10	12.07	201741
57	4.25	Capric Acid	14.81	126046
115	7.99	O-terphenyl	2.46	48403
155	11.36	C-28	0.12	1988

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	29.47	12932880.0
2	7.95	8.05	2.46	48402.7

********** RESULTS TABLE **********

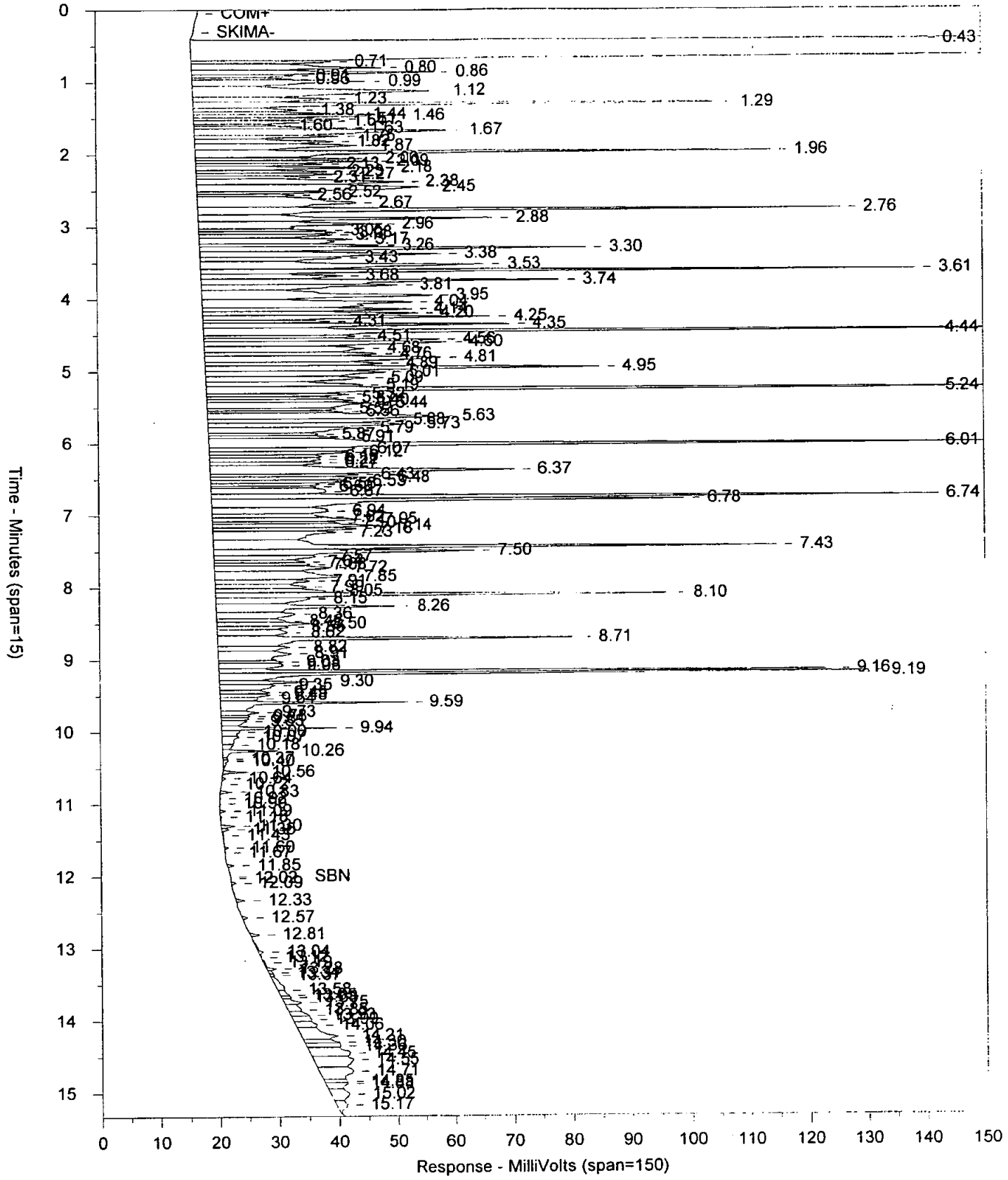
DRO AREA = 1.293288E+07
DRO AMOUNT = 706.0687 PPM

% Difference #2 Fuel Oil Level 3 = -11.74142%

FILES:
Area File: T21207.0039.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180B.CAL
Format File: 1FulSchk.fmt
Area file created on: 7/26/2012 6:04:15 AM
File reported on: 7/26/2012 at 6:04:21 AM

ASX73 2186

Sample ID: 1FUL31232G DZ1FUL3DZ CCAL 1220599999 SW-846 8015B
File: T21207.0051.RAW TPH/DRO by 8015B, modified



ASX73 2187

Sample ID: 1FUL31232G DZ1FUL3DZ CCAL 1220599999 SW-846 8015B
File: T21207.0051.RAW TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 7/26/2012 10:09:29 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.29	C10	11.77	196725
55	4.25	Capric Acid	14.46	121774
113	7.99	O-terphenyl	2.39	47025
156	11.35	C-28	0.12	2080

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	28.75	12557990.0
2	7.95	8.05	2.39	108271.0

********** RESULTS TABLE **********

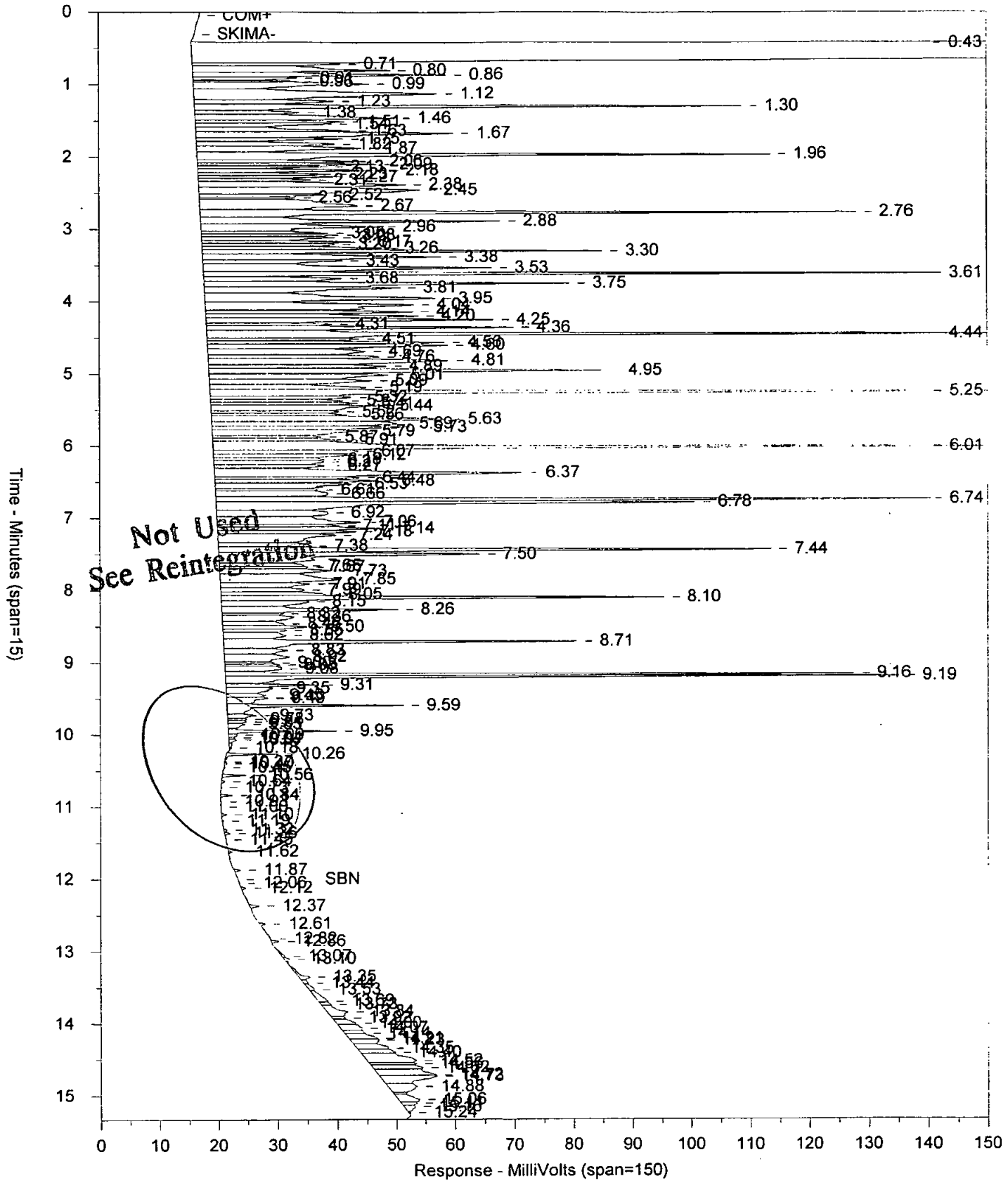
DRO AREA = 1.255799E+07
DRO AMOUNT = 685.6013 PPM

% Difference #2 Fuel Oil Level 3 = -14.29985%

FILES:
Area File: T21207.0051.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180B.CAL
Format File: 1FulSchk.fmt
Area file created on: 7/26/2012 10:24:51 AM
File reported on: 7/26/2012 at 10:24:55 AM

ASX73 2198

Sample ID: 1FUL31232G EF1FUL3EF CCAL 1220799999 SW-846 8015B
File: T21207.0056.RAW TPH/DRO by 8015B, modified



ASX73 2189

Sample ID: 1FUL31232G EF1FUL3EF CCAL 1220799999
File: T21207.0056.RAW

SW-846 8015B
TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 7/26/2012 11:55:04 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.30	C10	11.92	199191
54	4.25	Capric Acid	14.89	126966
110	7.99	O-terphenyl	2.22	43506
156	11.36	C-28	0.09	1564

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	29.11	12258580.0
2	7.95	8.05	2.22	43505.7

********** RESULTS TABLE **********

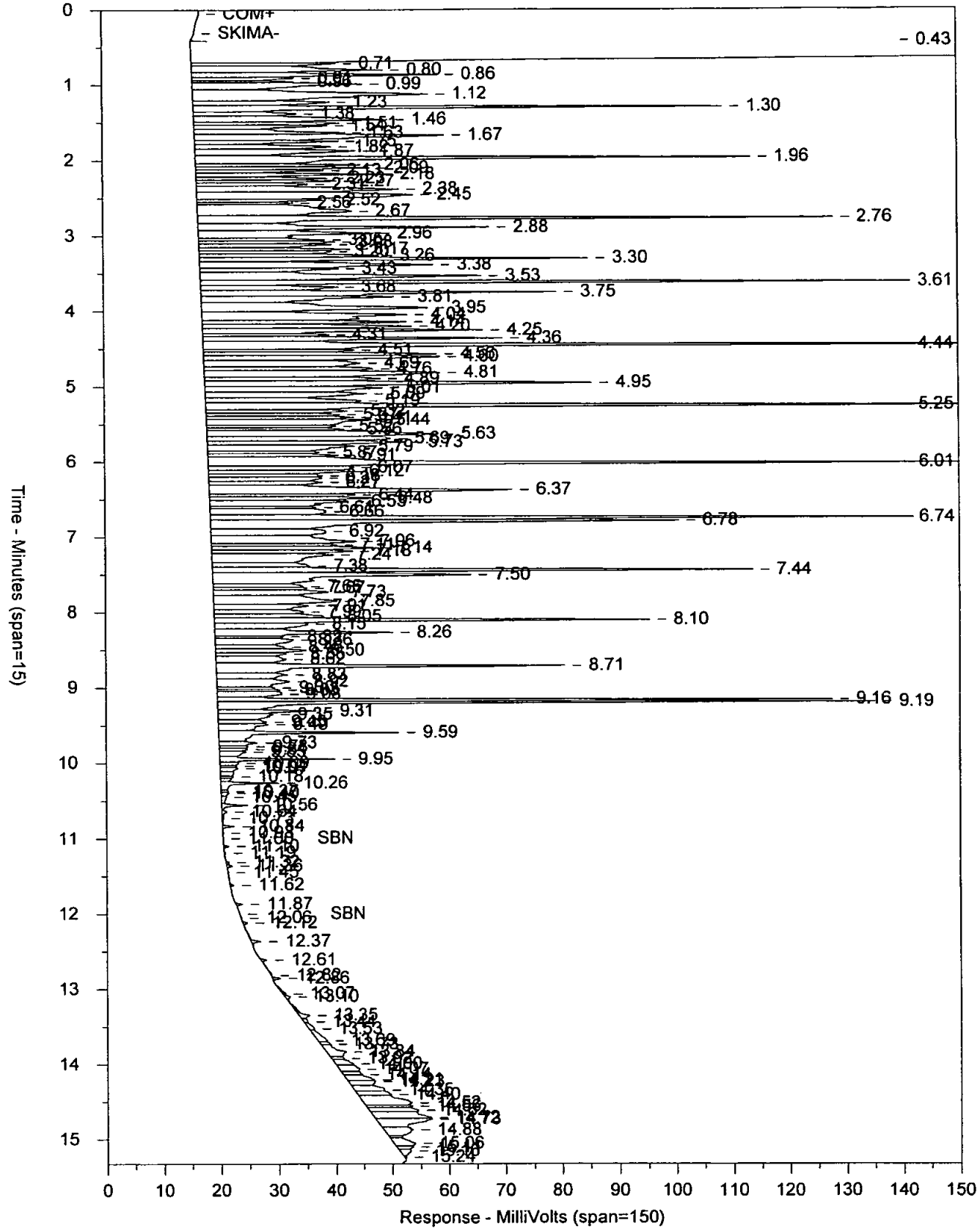
DRO AREA = 1.225858E+07
DRO AMOUNT = 669.2552 PPM

% Difference #2 Fuel Oil Level 3 = -16.3431%

Not Used
See Reintegration

FILES:
Area File: T21207.0056.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180B.CAL
Format File: 1FulSchk.fmt
Area file created on: 7/26/2012 12:10:25 PM
File reported on: 7/26/2012 at 12:10:27 PM

Sample ID: 1FUL31232G EF1FUL3EF CCAL 1220799999 SW-846 8015B
File: T21207.0056.RAW TPH/DRO by 8015B, modified



ASX73 2111

Sample ID: 1FUL31232G EF1FUL3EF CCAL 1220799999 SW-846 8015B
File: T21207.0056.RAW TPH/DRO by 8015B, modified

Instrument ID: CP21-H6783A
Injected on: 7/26/2012 11:55:04 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 1
Injection Volume: 1
Dilution Factor: 1

Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.30	C10	11.97	200063
54	4.25	Capric Acid	15.14	130016
110	7.99	O-terphenyl	2.46	48220
156	11.36	C-28	0.09	1564

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	29.66	12810910.0
2	7.95	8.05	2.46	48220.0

********** RESULTS TABLE **********

DRO AREA = 1.281091E+07 M
DRO AMOUNT = 699.4095 PPM

% Difference #2 Fuel Oil Level 3 = -12.57381%

FILES:
Area File: T21207.0056.RAW
Method File: 1FULSCHK.MET
Calibration File: 1FLS180B.CAL
Format File: 1FulSchk.fmt
Area file created on: 7/26/2012 12:23:22 PM
File reported on: 7/26/2012 at 12:23:27 PM

M = Manually Integrated
Analyst [illegible] 7-26-12
Approved by [illegible] 7/26/12
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

ASX73 2132

Raw QC Data

Lancaster Laboratories-Range Data Summary

Sample Name: BLANKA 7/19/12 PBLK26200 Sample ID: AA **Batchnumber:** 122000026A
Sample Amount: 30. Total Volume: 5. ml Analyst: 1449 SDG: State:
Analyses: 10941

Injection Summary

Injected on : 7/26/2012 01:55:21
Instrument : CP21--H6783A
Result file : T21207.0028.RAW
Calibration files : 1FLS180B.CAL
Method files : 1FUELS.MET 1REPLOTS.MET
Setting : 1FLS180BS

Surrogate Recoveries

O-TERPHENYL 97% (50-131) Conc.: 1.941648

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ o-Terphenyl	7.99 (7.95 - 8.05)	228780	1.9416				ppm
☐ Total DRO	1.20 - 11.47	237962	0.0835	<12	<4		ppm

Comments:

Tracy A. Cole Michele J. Smith

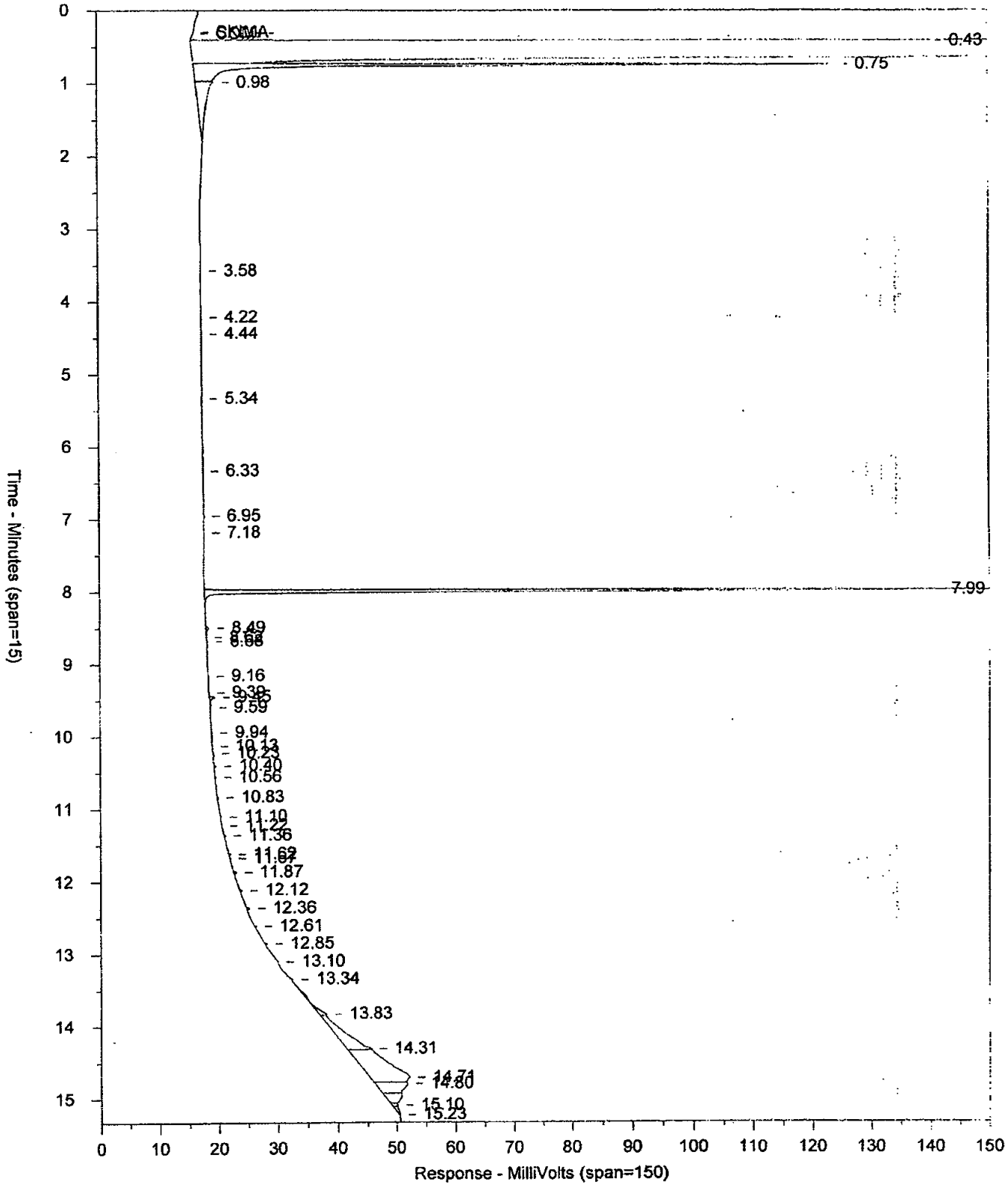
Reviewed by: JUL 26 2012 Verified by:
Date: Date: JUL 26 2012

Tracy A. Cole
Senior Specialist

Michele J. Smith
Senior Specialist

ASX73 2114

Sample ID: BLANKA 7/19/12 AAPBLK26200 BLK 122000026A 10941 SW-846 8015B
File: T21207.0028.RAW TPH/DRO by 8015B, modified



ASX73 2115

Sample ID: BLANKA 7/19/12 AAPBLK26200 BLK 122000026A 10941 SW-846 8015B
File: T21207.0028.RAW TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 1:55:21 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30
Injection Volume: .1
Dilution Factor: 5

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
5	4.22	Capric Acid	0.76	298
11	7.99	O-terphenyl	1.94	228780
27	11.36	C-28	0.01	520

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	81.18	237961.7
2	7.95	8.05	58.25	228779.7

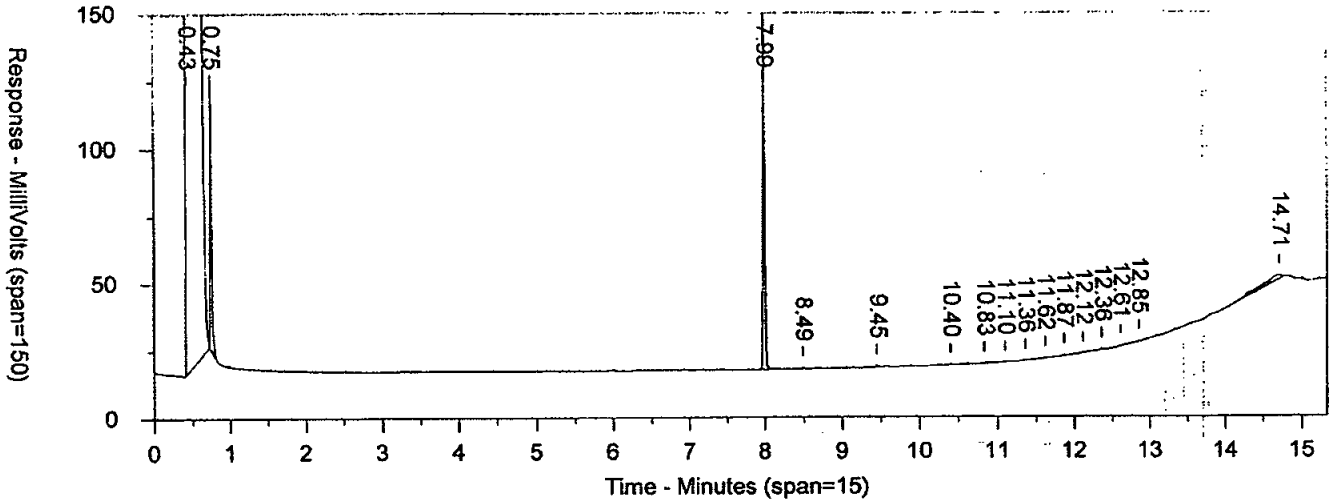
********** RESULTS TABLE **********

DRO AREA = 237961.7
DRO AMOUNT = 2.165247 PPM

FILES:
Area File: T21207.0028.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 2:10:41 AM
File reported on: 7/26/2012 at 2:10:46 AM

ASX73 2116

Sample ID: BLANKA 7/19/12 AAPBLK26200 BLK 122000026A 10941 SW-846 8015B
File: T21207.0028.RAW Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 7/26/2012 1:55:21 AM
Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C, Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

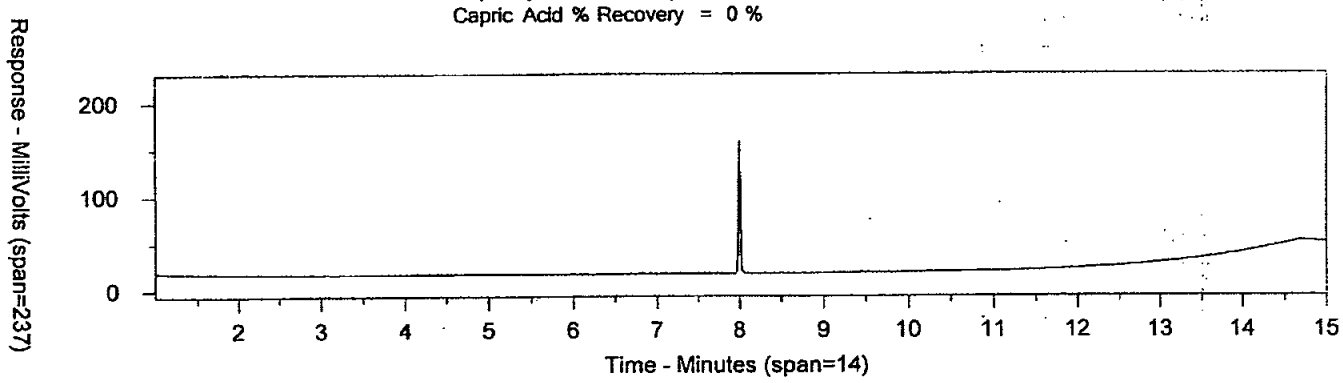
Sample Weight: 30
Dilution Factor: 5
Injection Volume: 1
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
3	7.99	O-terphenyl	1.94	228780
9	11.36	C-28	0.01	520

********** Results Table **********

o-Terphenyl Level 3 % Difference = 1720.295 %

WW o-Terphenyl % Recovery = 485.4119 %
SW o-Terphenyl % Recovery = 97.08239 %
Capric Acid % Recovery = 0 %



FILES:
Area File: T21207.0028.RAW
Area file created on: 7/26/2012 2:10:41 AM
File reported on: 7/26/2012 at 2:10:49 AM
Calibration File: 1FLS180B.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 2117

Lancaster Laboratories Range Data Summary

Sample Name: 6721497 7/19/12DF1(49-0CDUP Sample ID: AC **Batchnumber:** 122000026A
Sample Amount: 30.4 Total Volume: 50. ml Analyst: 719 SDG:ASX73 State: DE
Analyses: 10941

Injection Summary

Injected on : 7/26/2012 10:51:41
Instrument : CP21--H6783A
Result file : T21207.0053.RAW
Calibration files : 1FLS180B.CAL
Method files : 1FUELS.MET 1REPLOTS.MET
Setting : 1FLS180BS

Surrogate Recoveries

O-TERPHENYL 89% (50-131) Conc.: 1.746906

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ o-Terphenyl	7.99 (7.95 - 8.05)	20858	1.7469				ppm
☐ Total DRO	1.20 - 11.47	1808825	160.5490	118.4211	39.4737		ppm

Comments:

Tracy A. Cole

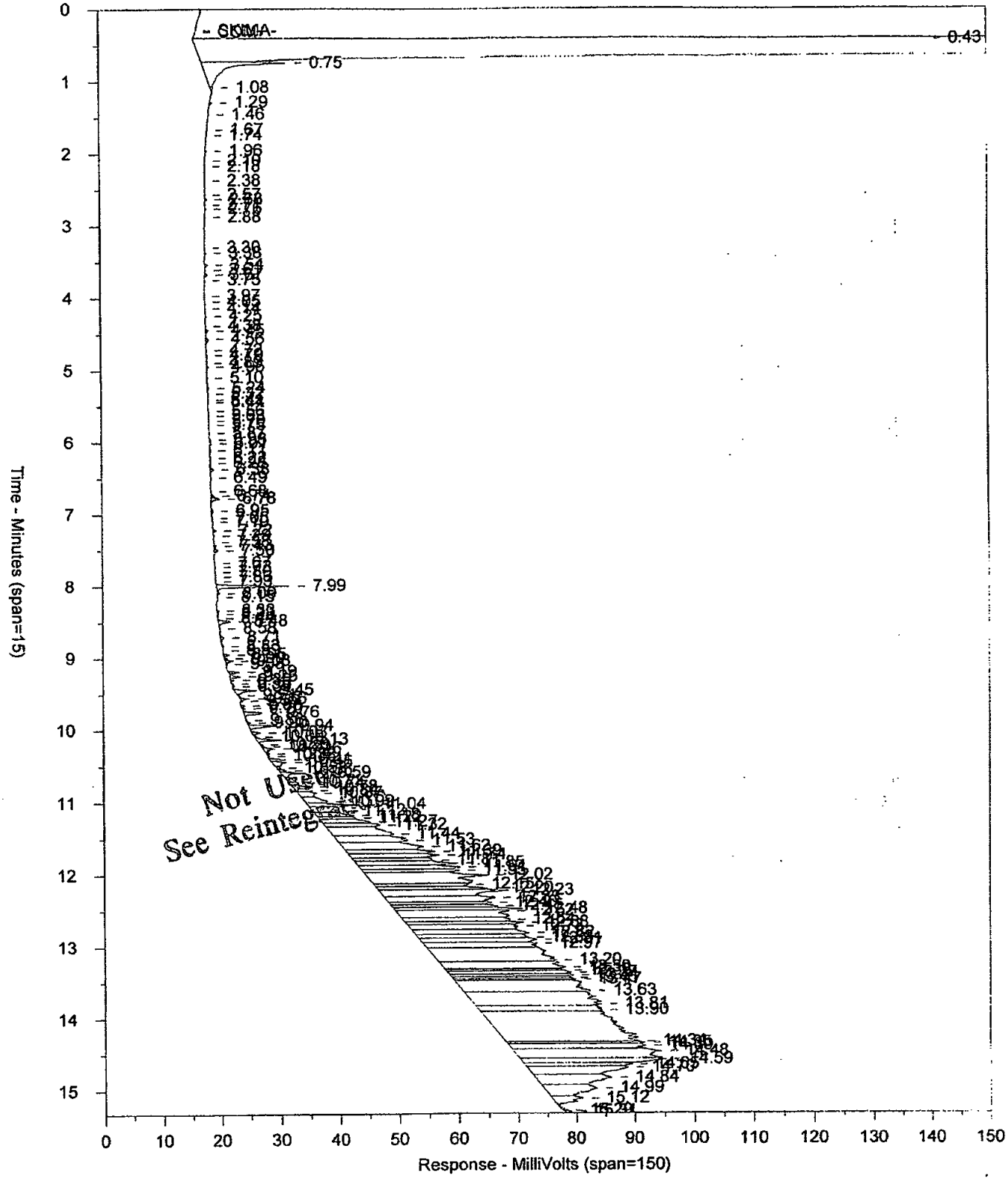
Reviewed by: JUL 26 2012
Date:
Tracy A. Cole
Senior Specialist

Michele J. Smith

Verified by:
Date: JUL 26 2012
Michele J. Smith
Senior Specialist

ASX73 2119

Sample ID: 6721497 7/19/12DF10 AC49-0CDUP DUP 122000026A 10941 SW-846 8015B
File: T21207.0053.RAW TPH/DRO by 8015B, modified



ASX73 2119

Sample ID: 6721497 7/19/12DF10 AC49-0CDUP DUP 122000026A 10941 SW-846 8015B
File: T21207.0053.RAW TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 10:51:41 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30.4
Injection Volume: 1
Dilution Factor: 50

Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	1.29	C10	0.07	762
26	4.25	Capric Acid	7.51	415
67	7.99	O-terphenyl	1.75	20858

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	283.65	373405.5
2	7.95	8.05	53.11	20857.8

********** RESULTS TABLE **********

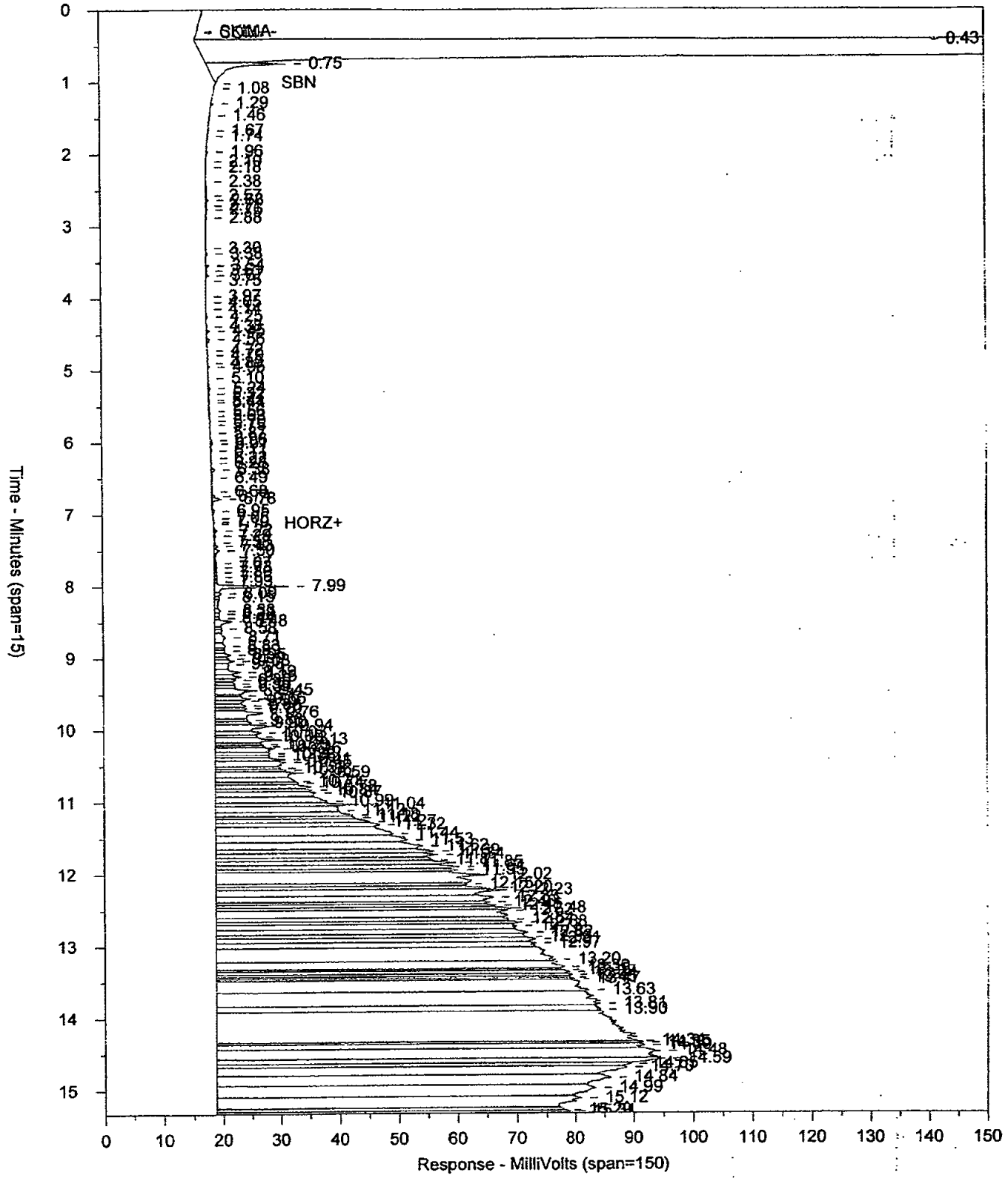
DRO AREA = 373405.5
DRO AMOUNT = 33.52962 PPM

FILES:
Area File: T21207.0053.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 11:07:01 AM
File reported on: 7/26/2012 at 11:07:03 AM

Not Used
See Reintegration

ASX73 2129

Sample ID: 6721497 7/19/12DF10 AC49-0CDUP DUP 122000026A 10941 SW-846 8015B
File: T21207.0053.RAW TPH/DRO by 8015B, modified



ASX73 2121

Sample ID: 6721497 7/19/12DF10 AC49-0CDUP DUP 122000026A 10941 SW-846 8015B
File: T21207.0053.RAW TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 10:51:41 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30.4
Injection Volume: 1
Dilution Factor: 50

Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
4	1.29	C10	0.07	762
26	4.25	Capric Acid	7.53	558
67	7.99	O-terphenyl	2.18	26017

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	297.37	1808825.0
2	7.95	8.05	66.24	26017.2

********** RESULTS TABLE **********

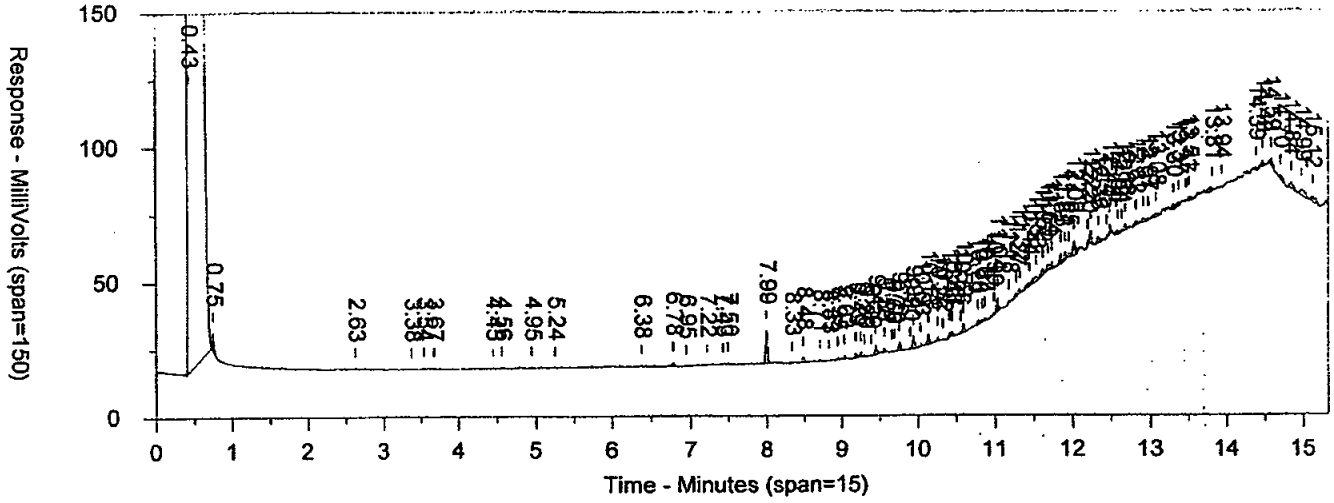
DRO AREA = 1808825
DRO AMOUNT = 162.4219 PPM

FILES:
Area File: T21207.0053.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 11:14:45 AM
File reported on: 7/26/2012 at 11:14:47 AM

M = Manually Integrated
Analyst 7-26-12
Approved by 7/26/12
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

ASX73 2122

Sample ID: 6721497 7/19/12DF10 AC49-0CDUP DUP 122000026A 10941 SW-846 8015B
File: T21207.0053.RAW Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 7/26/2012 10:51:41 AM
Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C, Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

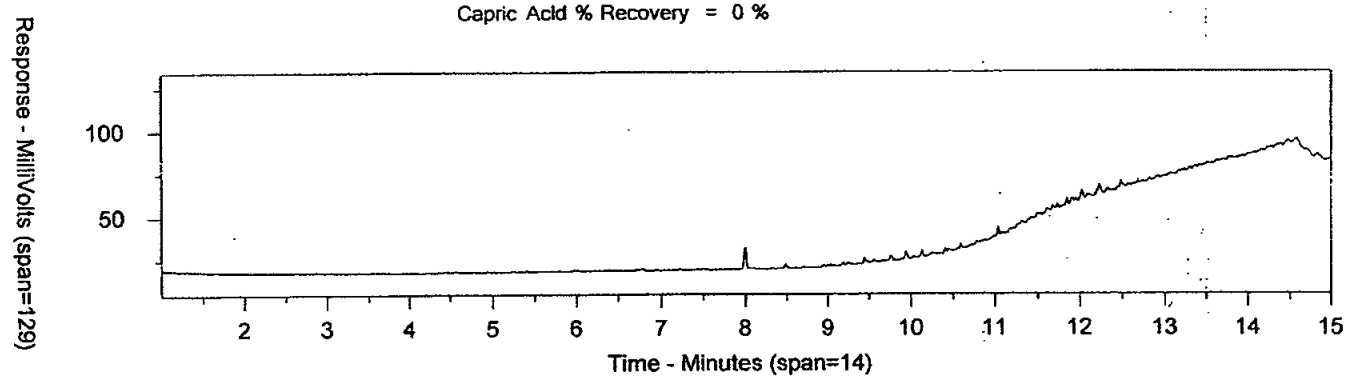
Sample Weight: 30.4
Dilution Factor: 50
Injection Volume: 1
Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
17	7.99	O-terphenyl	1.75	20858

********** Results Table **********

o-Terphenyl Level 3 % Difference = 16495.6 %

WW o-Terphenyl % Recovery = 442.5495 %
SW o-Terphenyl % Recovery = 88.50989 %
Capric Acid % Recovery = 0 %



FILES:
Area File: T21207.0053.RAW
Area file created on: 7/26/2012 11:07:01 AM
File reported on: 7/26/2012 at 11:07:07 AM
Calibration File: 1FLS180B.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 2123

Lancaster Laboratories Range Data Summary

Sample Name: 6721497MSDF10 49-0CMS Sample ID: AC **Batchnumber:** 122000026A
Sample Amount: 30.1 Total Volume: 50. ml Analyst: 719 SDG:ASX73 State: DE
Analyses: 10941

Injection Summary

Injected on : 7/26/2012 11:12:36
Instrument : CP21--H6783A
Result file : T21207.0054.RAW
Calibration files : 1FLS180B.CAL
Method files : 1FUELS.MET 1REPLOTS.MET
Setting : 1FLS180BS

Surrogate Recoveries

O-TERPHENYL 95% (50-131) Conc.: 1.887366

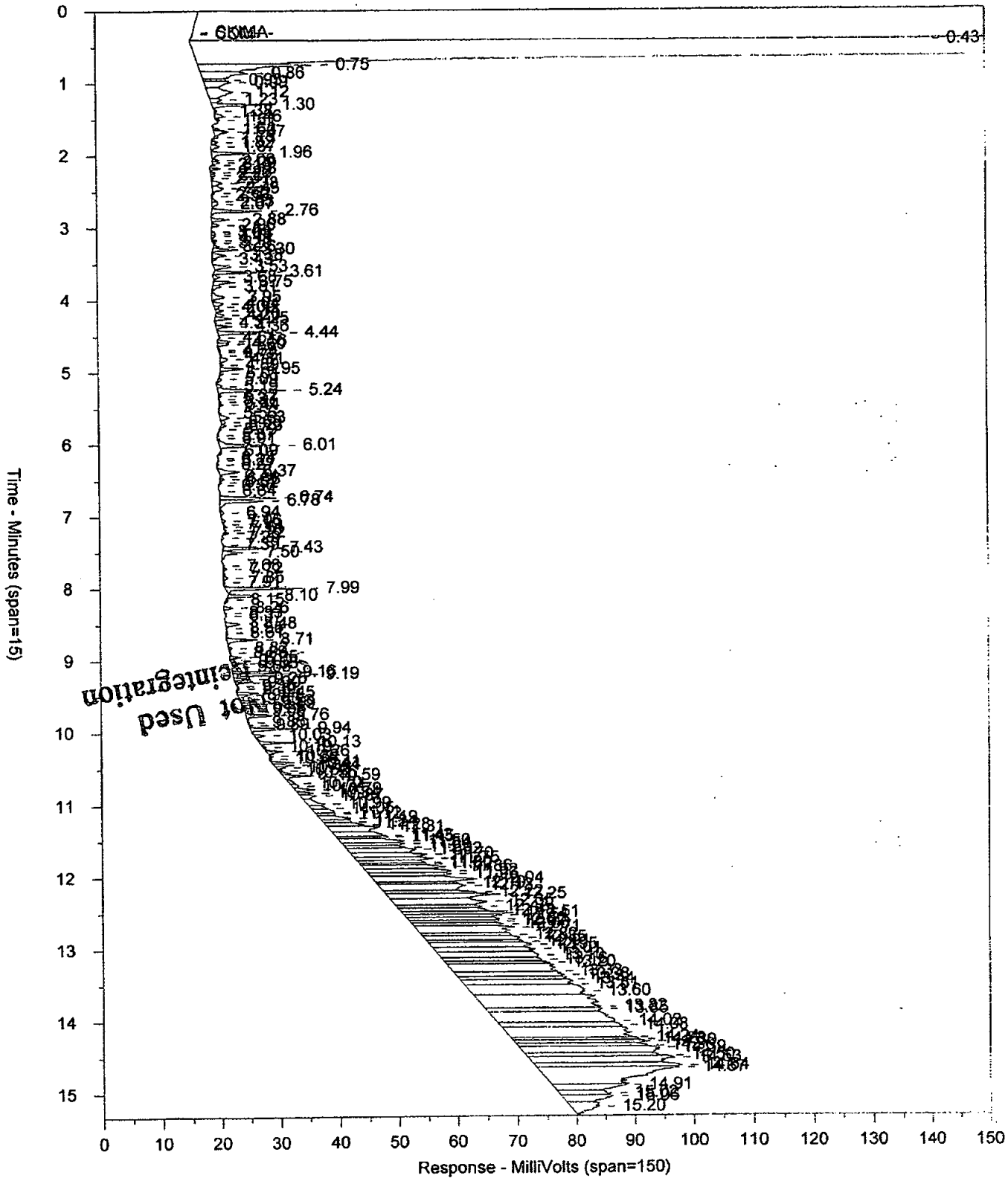
Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ o-Terphenyl	7.99 (7.95 - 8.05)	22313	1.8874				ppm
☐ Total DRO	1.20 - 11.47	2569808	231.0301	119.6013	39.8671		ppm

Comments: _____

Reviewed by: Tracy A. Cole
Date: JUL 26 2012
Tracy A. Cole
Senior Specialist

Verified by: Michele J Smith
Date: JUL 26 2012
Michele J. Smith
Senior Specialist

Sample ID: 6721497MSDF10 AC49-0CMS MS 122000026A 10941 SW-846 8015B
File: T21207.0054.RAW TPH/DRO by 8015B, modified



ASX73 2125

Sample ID: 6721497MSDF10 AC49-0CMS MS 122000026A 10941 SW-846 8015B
File: T21207.0054.RAW TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 11:12:36 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30.1
Injection Volume: 1
Dilution Factor: 50

Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
8	1.30	C10	1.47	14737
53	4.25	Capric Acid	8.23	5210
108	7.99	O-terphenyl	1.89	22313

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	348.73	735049.0
2	7.95	8.05	56.81	22312.5

********** RESULTS TABLE **********

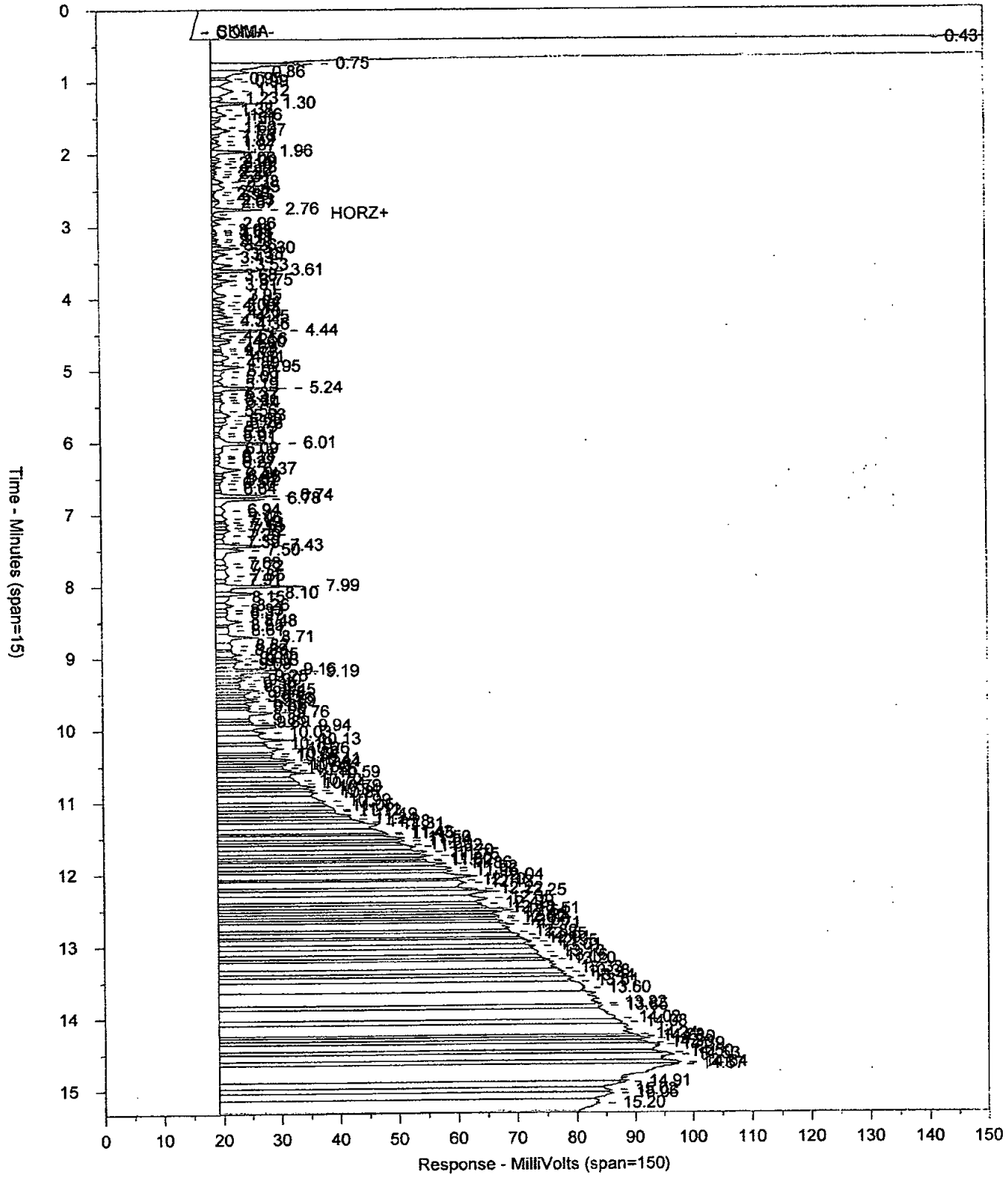
DRO AREA = 735049
DRO AMOUNT = 66.66093 PPM

Not Used
Reintegration

FILES:
Area File: T21207.0054.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 11:27:57 AM
File reported on: 7/26/2012 at 11:27:59 AM

ASX73 2126

Sample ID: 6721497MSDF10 AC49-0CMS MS 122000026A 10941 SW-846 8015B
File: T21207.0054.RAW TPH/DRO by 8015B, modified



ASX73 2127

Sample ID: 6721497MSDF10 AC49-0CMS MS 122000026A 10941 SW-846 8015B
File: T21207.0054.RAW TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 11:12:36 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30.1
Injection Volume: 1
Dilution Factor: 50

Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
8	1.30	C10	1.67	16781
52	4.25	Capric Acid	8.49	7122
107	7.99	O-terphenyl	3.06	36220

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	398.05	2569808.0
2	7.95	8.05	92.22	36220.3

********** RESULTS TABLE **********

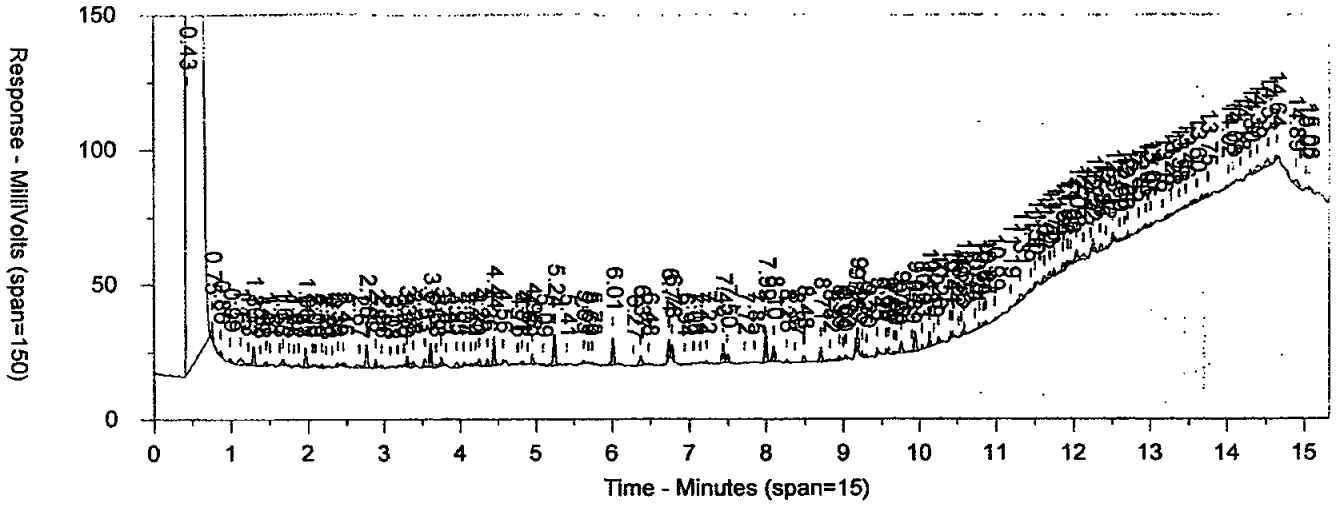
DRO AREA = 2569808
DRO AMOUNT = 233.0536 PPM

FILES:
Area File: T21207.0054.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 11:33:50 AM
File reported on: 7/26/2012 at 11:33:51 AM

M = Manually Integrated
Analyst 7-26-12 7/26/12
Approved by
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

AS873 2128

Sample ID: 6721497MSDF10 AC49-0CMS MS 122000026A 10941 SW-846 8015B
File: T21207.0054.RAW Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 7/26/2012 11:12:36 AM
Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C, Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

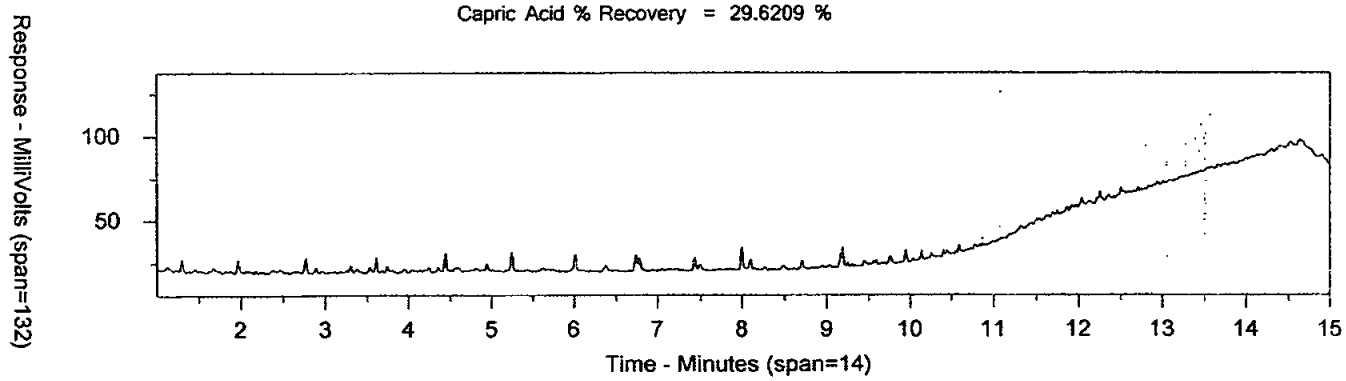
Sample Weight: 30.1
Dilution Factor: 50
Injection Volume: 1
Analyst: 719

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
7	1.30	C10	1.21	12173
42	4.25	Capric Acid	8.08	4045
70	7.99	O-terphenyl	1.89	22313

Results Table

o-Terphenyl Level 3 % Difference = 17653.04 %

WW o-Terphenyl % Recovery = 473.4143 %
SW o-Terphenyl % Recovery = 94.68285 %
Capric Acid % Recovery = 29.6209 %



FILES:
Area File: T21207.0054.RAW
Area file created on: 7/26/2012 11:27:57 AM
File reported on: 7/26/2012 at 11:28:03 AM
Calibration File: 1FLS180B.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 2129

Lancaster Laboratories Range Data Summary

Sample Name: LCSA 7/19/12 LCS26200 Sample ID: AA **Batchnumber:** 122000026A
Sample Amount: 30. Total Volume: 5. ml Analyst: 1449 SDG: State:
Analyses: 10941

Injection Summary

Injected on : 7/26/2012 02:16:35
Instrument : CP21--H6783A
Result file : T21207.0029.RAW
Calibration files : 1FLS180B.CAL
Method files : 1FUELS.MET 1REPLOTS.MET
Setting : 1FLS180BS

Surrogate Recoveries

O-TERPHENYL 98% (50-131) Conc.: 1.964483

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ o-Terphenyl	8.00 (7.95 - 8.05)	231470	1.9645				ppm
☐ Total DRO	1.20 - 11.47	12705605	113.5039	12	4		ppm

Comments:

Tracy A. Cole

Reviewed by: JUL 26 2012
Date:
Tracy A. Cole
Senior Specialist

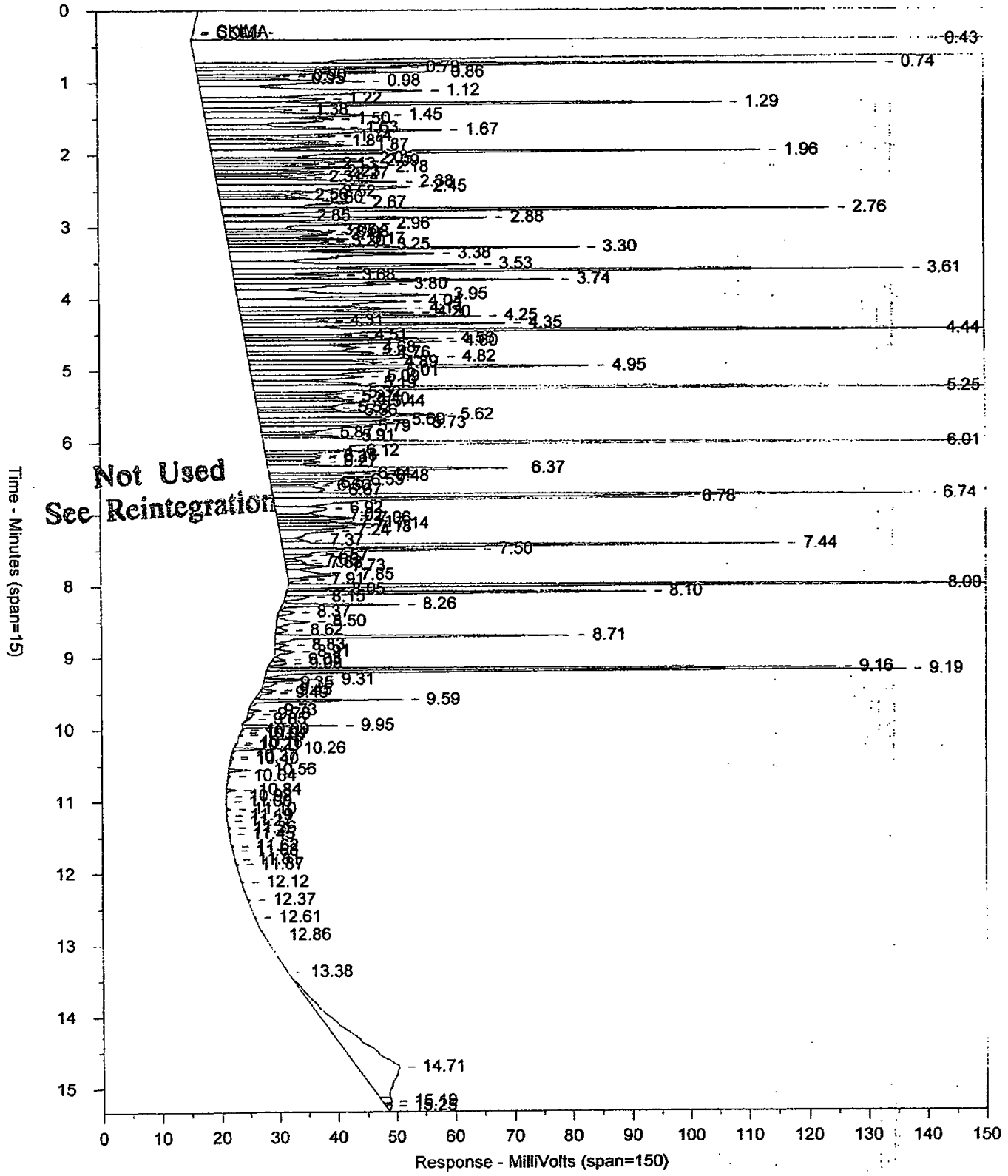
Michele J. Smith

Verified by:
Date: JUL 26 2012
Michele J. Smith
Senior Specialist

A9X73 2138

Chrom Perfect Chromatogram Report

Sample ID: LCSA 7/19/12 AALCS26200 LCS 122000026A 10941 SW-846 8015B
File: T21207.0029.RAW TPH/DRO by 8015B, modified



ASX23 2131

Sample ID: LCSA 7/19/12 AALCS26200 LCS 122000026A 10941 SW-846 8015B
File: T21207.0029.RAW TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 2:16:35 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30
Injection Volume: 1
Dilution Factor: 5

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.29	C10	1.84	184163
54	4.25	Capric Acid	2.06	96137
112	8.00	O-terphenyl	2.08	245432
152	11.36	C-28	0.01	984

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	179.75	8809287.0
2	7.95	8.05	62.49	245431.9

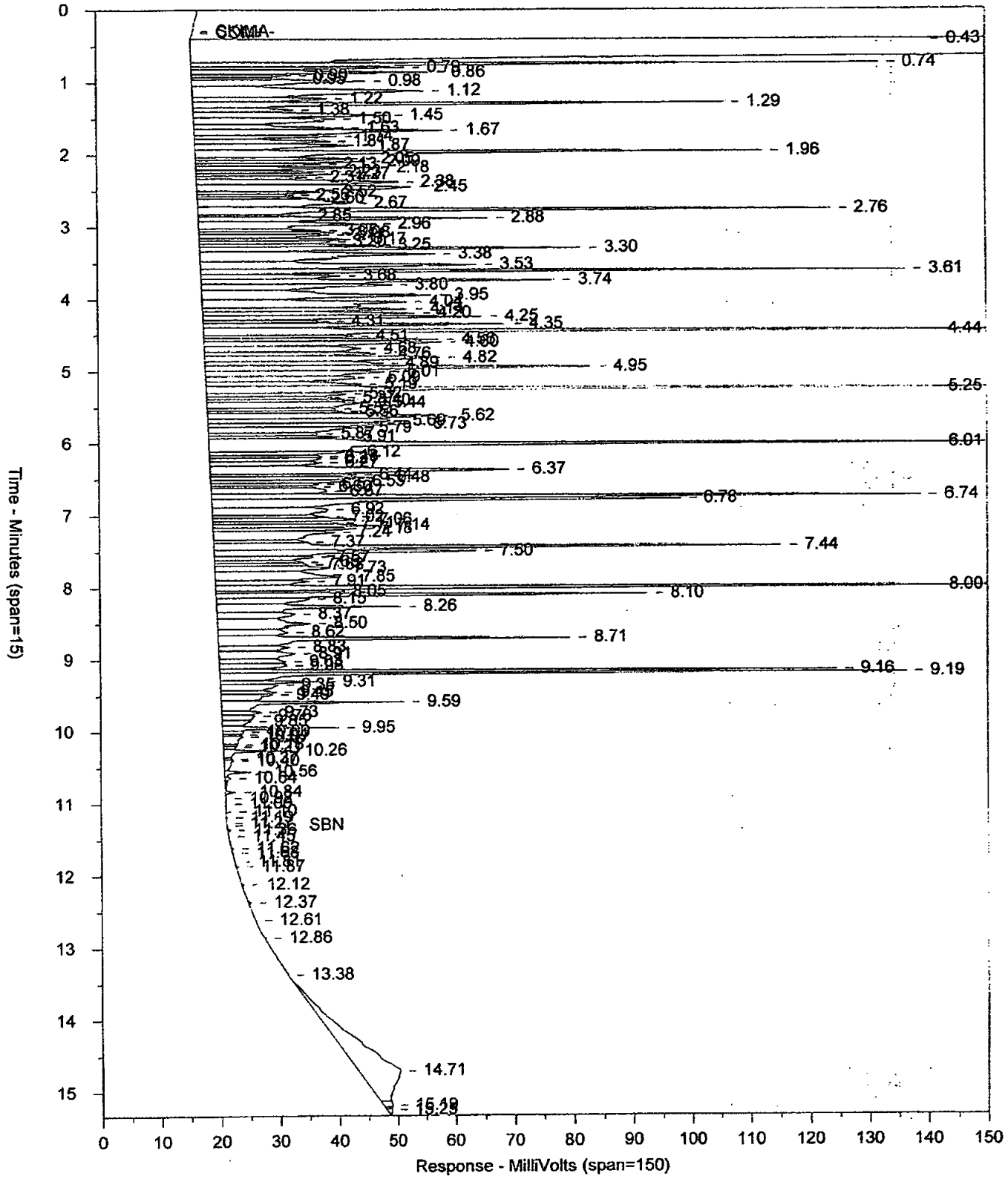
********** RESULTS TABLE **********

DRO AREA = 8809287
DRO AMOUNT = 80.15694 PPM

Not Used
See Reintegration

FILES:
Area File: T21207.0029.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 2:31:56 AM
File reported on: 7/26/2012 at 2:32:02 AM

Sample ID: LCSA 7/19/12 AALCS26200 LCS 122000026A 10941 SW-846 8015B
File: T21207.0029.RAW TPH/DRO by 8015B, modified



ASX73 2133

Sample ID: LCSA 7/19/12 AALCS26200 LCS 122000026A 10941 SW-846 8015B
File: T21207.0029.RAW TPH/DRO by 8015B, modified

Instrument ID:CP21
Injected on: 7/26/2012 2:16:35 AM
Oven Parameters: 80C 1min; 15C/min to 190C; 30C/min to 340C; Hold 2min
GC Column: ZB5 30m X 0.32mm X 0.25um; Inj 300C Det 320C

Sample Amount: 30
Injection Volume: 1
Dilution Factor: 5

Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
10	1.29	C10	1:91	191825
54	4.25	Capric Acid	2.40	121006
112	8.00	O-terphenyl	2.59	304652
152	11.36	C-28	0.01	984

Slice	Start Time	Stop Time	Slice Amount	Slice Area
1	1.20	11.47	207.26	12705610.0
2	7.95	8.05	77.57	304652.4

********** RESULTS TABLE **********

DRO AREA = 1.270561E+07
DRO AMOUNT = 115.6101 PPM

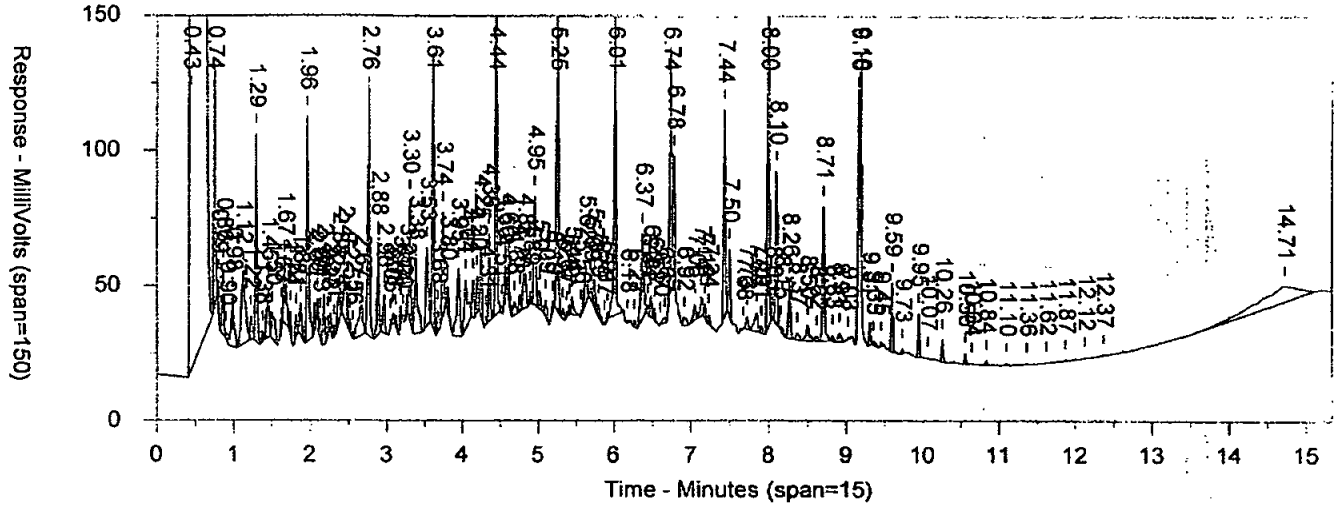
FILES:
Area File: T21207.0029.RAW
Method File: 1FUELS.MET
Calibration File: 1FLS180B.CAL
Format File: 1FuelS.fmt
Area file created on: 7/26/2012 9:00:23 AM
File reported on: 7/26/2012 at 9:00:25 AM

M = Manually Integrated
Analyst DC/74 7-26-12
Approved by MB 1758 7/26/12
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other _____

ASX73 2134

Chrom Perfect Chromatogram Report

Sample ID: LCSA 7/19/12 AALCS26200 LCS 122000026A 10941 SW-846 8015B
File: T21207.0029.RAW Surrogate Report for 8015B, modified



Instrument ID: CP21-6783
Injected On: 7/26/2012 2:16:35 AM
Oven Parameters: 50C for 1min; 15C/min to 190C; 30C/min to 340C, Hold 2min
GC Column: ZB-5 30m x 0.32mm x 0.25um; Inj 300C, Det 320C

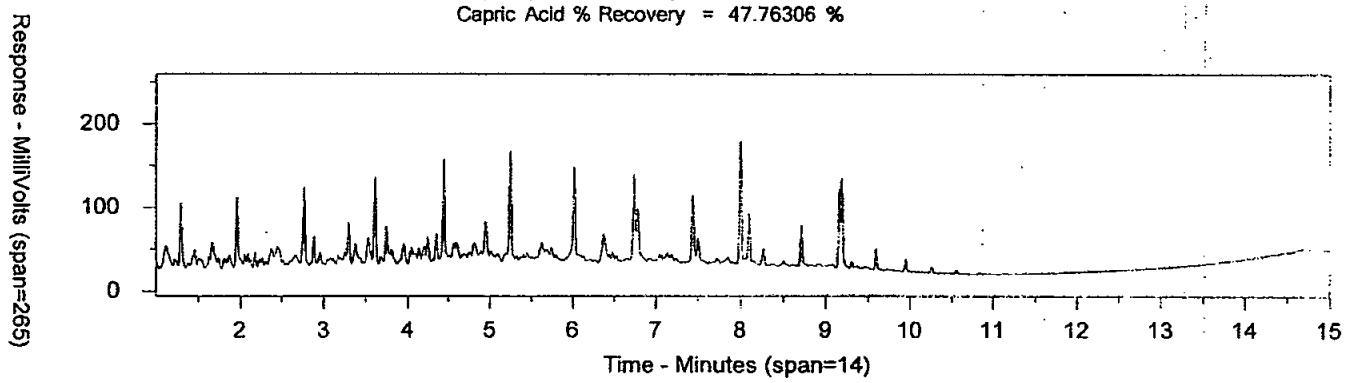
Sample Weight: 30
Dilution Factor: 5
Injection Volume: 1
Analyst: 1449

Peak	Ret Time (min)	Peak Name	Amount (PPM)	Peak Area
9	1.29	C10	1.27	126931
51	4.25	Capric Acid	1.31	40871
100	8.00	O-terphenyl	1.96	231470
126	11.36	C-28	0.01	984

********** Results Table **********

o-Terphenyl Level 3 % Difference = 1741.703 %

WW o-Terphenyl % Recovery = 491.1207 %
SW o-Terphenyl % Recovery = 98.22414 %
Capric Acid % Recovery = 47.76306 %



FILES:
Area File: T21207.0029.RAW
Area file created on: 7/26/2012 2:31:56 AM
File reported on: 7/26/2012 at 2:32:06 AM
Calibration File: 1FLS180B.CAL
Method File: 1REPLOTS.MET
Format File: 1REplotS.fmt

ASX73 2135

Lancaster Laboratories-Range Data Summary

Sample Name: BLANKA 7/18/12 PBLK15199 **Sample ID:** AA **Batchnumber:** 121990015A
Sample Amount: 1000. Total Volume: 2. ml Analyst: 3263 SDG: State:
Analyses: 08269

Injection Summary

Injected on : 7/20/2012 06:27:46
Instrument : CP18--18847A
Result file : D18201.0041.RAW
Calibration files : 2FULH193A.CAL
Method files : 2FUELH.MET 2REPLOTH.MET
Setting : 2FULH193AW

Surrogate Recoveries

O-TERPHENYL 91% (50-154) Conc.: 21.829

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
Total DRO	2.87 - 13.66	679401	9.5792	<100	<32		ug/l
O-terphenyl	10.33 (10.24 - 10.44)	491076	21.8290				ug/l
Capric Acid	6.46 - 6.66	0	0.0000				ug/l

Comments:

Michele B. Hamilton
Senior Chemist Group Leader

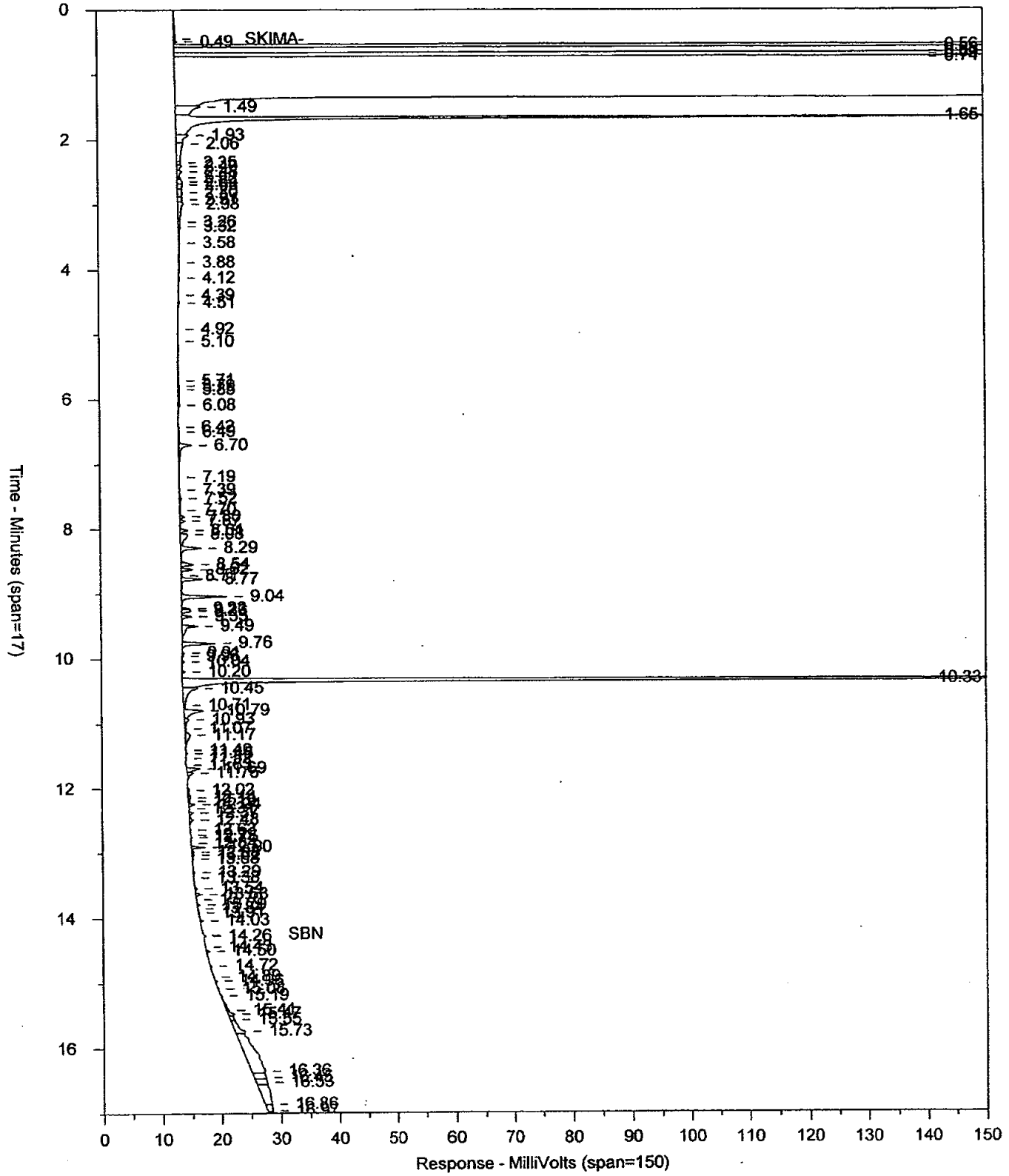
Reviewed by: JUL 25 2012 Verified by: Michele J Smith

Date: Date: JUL 25 2012

Michele J. Smith
Senior Specialist

ASX73 2136

BLANKA 7/18/12 AAPBLK15199 BLK 121990015A 08269 SW-846 8015B
D18201.0041.RAW



ASX73 2137

LANCASTER LABORATORIES

Sample Number: BLANKA 7/18/12 AAPBLK15199 BLK 121990015A 08269 Sample Weight: 1000 SW-846 8015B
Injected On: 7/20/2012 6:27:45 AM Dilution Factor: 2
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt PPM	Area
C10	2.98	0.00	9507
Capric Acid	6.49	0.00	828
O-terphenyl	10.33	0.02	478580
C28	13.54	0.00	1238

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	679401

RESULTS TABLE

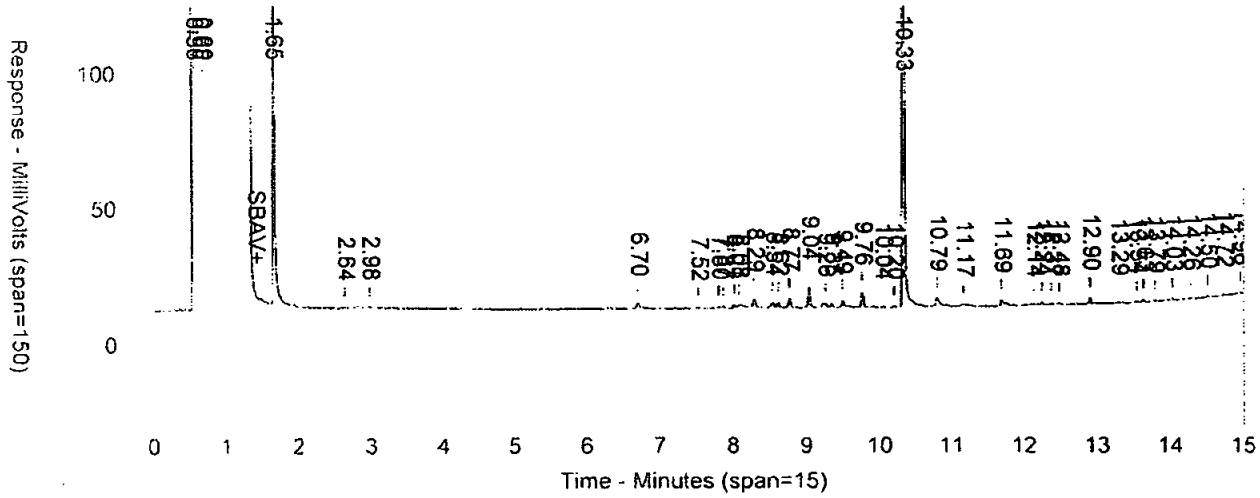
DRO C10-C28 AREA = 679401

Prelim DRO AMOUNT = 0.03 PPM

Area File: D18201.0041.RAW
Method: 2FUELH.MET
Calibration File: 2FULH193A.CAL
Format: 2FUELH.FMT
Area File Created On: 7/20/2012 6:45:07 AM
File Reported On: 7/23/2012 at 1:39:42 PM

ASX73 2198

BLANKA 7/18/12 AAPBLK15199 BLK 121990015A 08269 D18201.0041.RAW SW-846 8015B



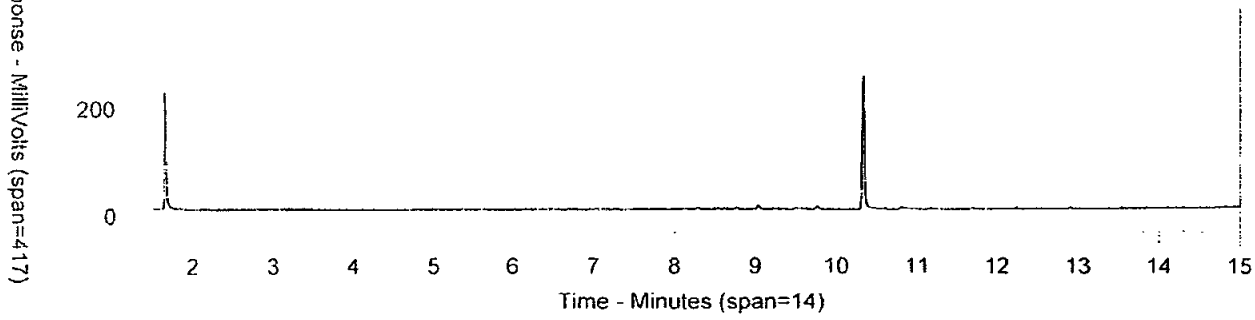
Sample Number: BLANKA 7/18/12 AAPBLK15199 BLK 121990015A 08269
Injected On: 7/20/2012 6:27:45 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: 1000 SW-846 8015
Dilution Factor: 2
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.98	0.0001	1376.311
O-terphenyl	10.33	0.0218	491075.8
C28	13.54	0.0001	1237.651

1000 mL WW & SW o-Terphenyl Recovery =91.0 %
500 mL WW o-Terphenyl Recovery = 181.9 %
o-Terphenyl CCV %D = 445.7 %

1000 ML CAPRIC ACID % RECOVERY = 0.0 %
500 ML CAPRIC ACID % RECOVERY = 0.0 %



Area File: D18201.0041.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/20/2012 6:45:07 AM
File Reported On: 7/25/2012 at 10:58:29 AM

ASX73 2139

Lancaster Laboratories-Range Data Summary

Sample Name: LCSA 7/18/12 LCS15199 Sample ID: AA **Batchnumber:** 121990015A
Sample Amount: 1000. Total Volume: 2. ml Analyst: 3263 SDG: State:
Analyses: 08269

Injection Summary

Injected on : 7/20/2012 06:50:27
Instrument : CP18--18847A
Result file : D18201.0042.RAW
Calibration files : 2FULH193A.CAL
Method files : 2REPLOTH.MET 2FUELH.MET
Setting : 2FULH193AW

Surrogate Recoveries

O-TERPHENYL 106% (50-154) Conc.: 25.542

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
☐ Total DRO	2.87 - 13.66	30460700	1520.1584	100	32		ug/l
☐ O-terphenyl	10.33 (10.24 - 10.44)	574606	25.5420				ug/l
☐ Capric Acid	6.61 (6.46 - 6.66)	110779	8.6060				ug/l

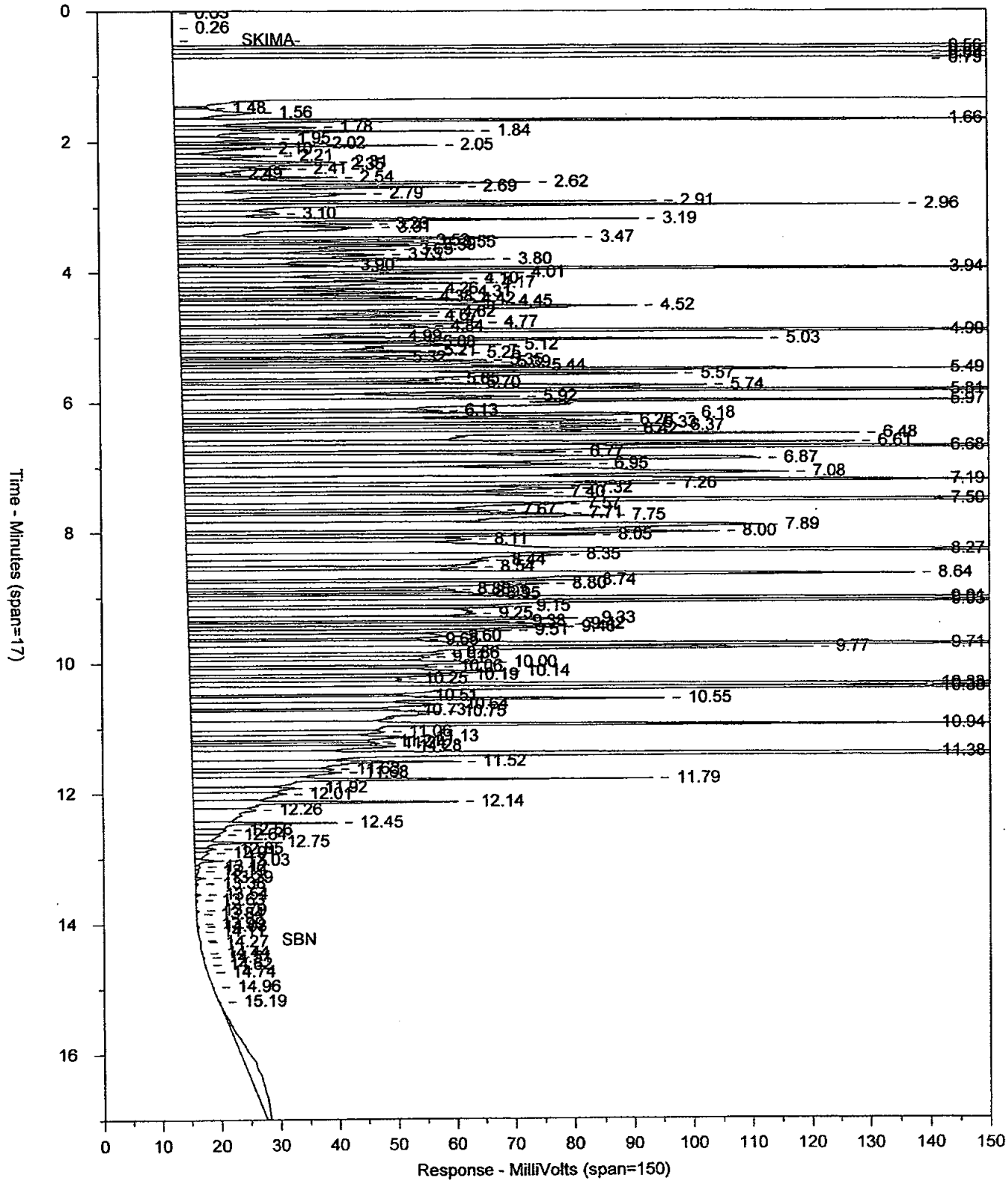
Comments:

Reviewed by: Michele D. Hamilton
Michele D. Hamilton
Senior Chemist Group Leader
Date: JUL 25 2012

Verified by: Michele J. Smith
Date: JUL 25 2012
Michele J. Smith
Senior Specialist

ASX73 2149

LCSA 7/18/12 AALCS15199 LCS 121990015A 08269 SW-846 8015B
D18201.0042.RAW



ASX73 2141

LANCASTER LABORATORIES

Sample Number: LCSA 7/18/12 AALCS15199 LCS 121990015A 08269 Sample Weight: 1000 SW-846 8015B
Injected On: 7/20/2012 6:50:26 AM Dilution Factor: 2
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt PPM	Area
C10	2.96	0.01	262525
Capric Acid	6.61	0.02	316626
O-terphenyl	10.33	0.03	720779
C28	13.54	0.00	1381

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	30460700

RESULTS TABLE

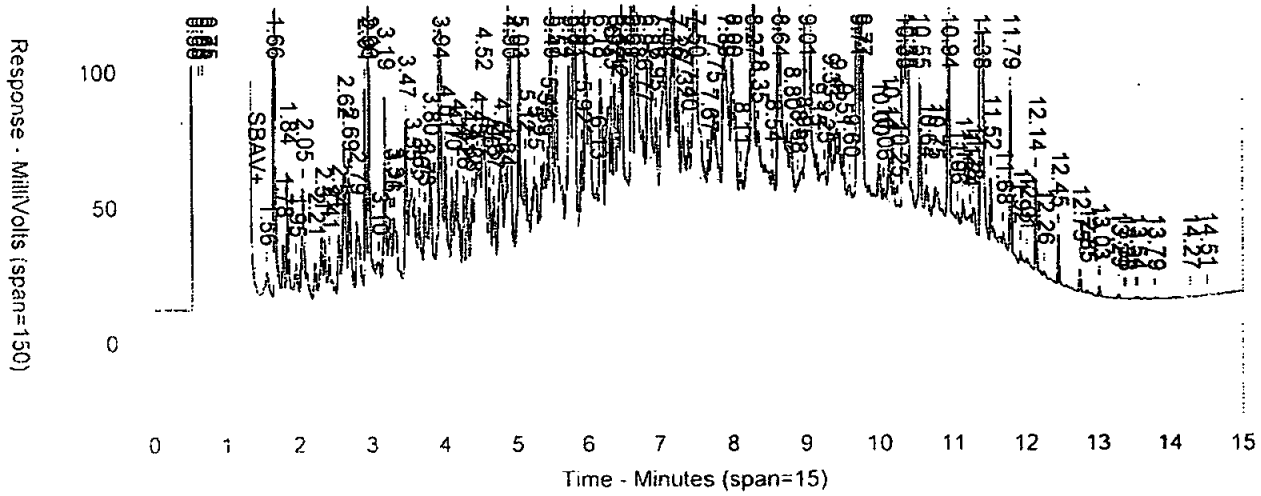
DRO C10-C28 AREA = 30460700

Prelim DRO AMOUNT = 1.55 PPM

Area File: D18201.0042.RAW
Method: 2FUELH.MET
Calibration File: 2FULH193A.CAL
Format: 2FUELH.FMT
Area File Created On: 7/20/2012 7:07:47 AM
File Reported On: 7/23/2012 at 1:39:44 PM

ASX73 2142

LCSA 7/18/12 AALCS15199 LCS 121990015A 08269 D18201.0042.RAWSW-846 8015B



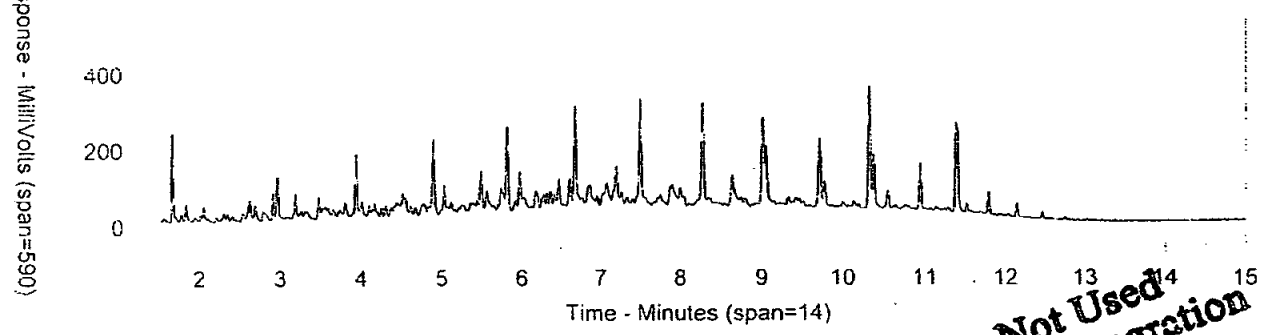
Sample Number: LCSA 7/18/12 AALCS15199 LCS 121990015A 08269
Injected On: 7/20/2012 6:50:26 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: 1800-846 8015B
Dilution Factor: 2
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.96	0.0067	154352.5
Capric Acid	6.61	0.0086	110778.6
O-terphenyl	10.33	0.0211	475085.4
C28	13.54	0.0001	1269.589

1000 mL WW & SW o-Terphenyl Recovery = 88.0 %
500 mL WW o-Terphenyl Recovery = 176.0 %
o-Terphenyl CCV %D = 428.0 %

1000 ML CAPRIC ACID % RECOVERY = 0.9 %
500 ML CAPRIC ACID % RECOVERY = 1.7 %



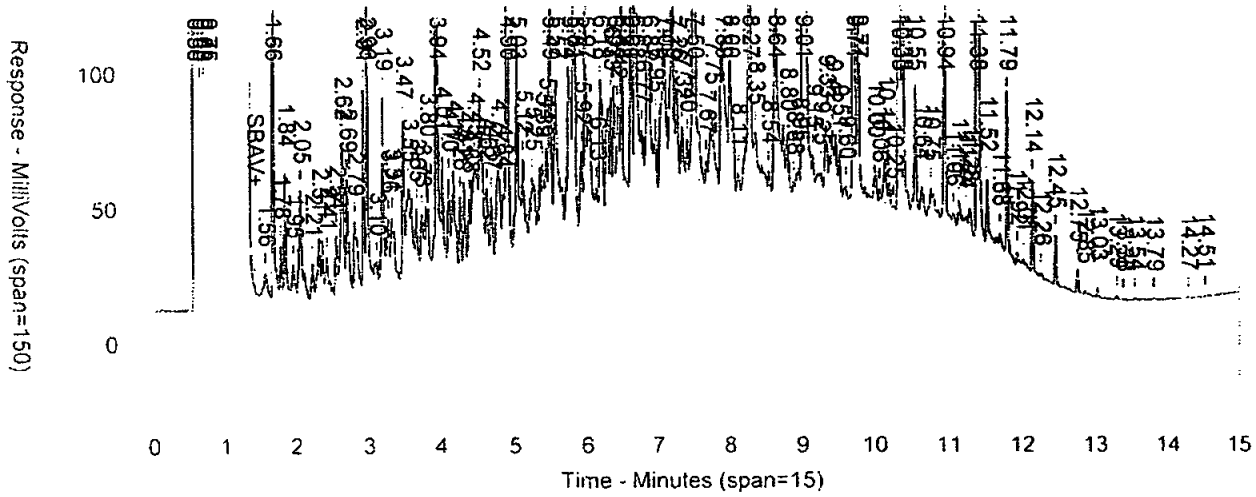
Not Used
See Reintegration

Area File: D18201.0042.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/20/2012 7:07:30 AM
File Reported On: 7/25/2012 at 10:58:38 AM

ASX73 2143

LCSA 7/18/12 AALCS15199 LCS 121990015A 08269 d18201.0042.raw SW-846 8015B



Sample Number: LCSA 7/18/12 AALCS15199 LCS 121990015A 08269
Injected On: 7/20/2012 6:50:26 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

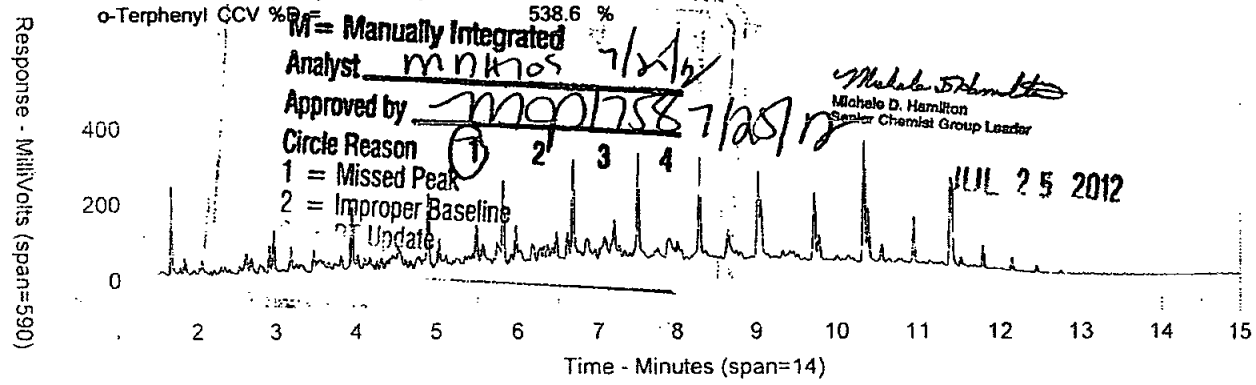
Sample Weight: 1000 SW-846 8015B
Dilution Factor: 2
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.96	0.0067	154352.5
Capric Acid	6.61	0.0086	110778.6
O-terphenyl	10.33	0.0255	574605.9
C28	13.54	0.0001	1269.589

1000 mL WW & SW o-Terphenyl Recovery = 106.4 %
500 mL WW o-Terphenyl Recovery = 212.9 %
o-Terphenyl CCV %R = 538.6 %

1000 ML CAPRIC ACID % RECOVERY = 0.9 %
500 ML CAPRIC ACID % RECOVERY = 1.7 %

M= Manually Integrated
Analyst mnkos 7/25/12
Approved by 7/25/12
Michele D. Hamilton
Senior Chemist Group Leader
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
JUL 25 2012



Area File: d18201.0042.BND
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/25/2012 1:05:31 PM
File Reported On: 7/25/2012 at 1:05:32 PM

ASX73 2144

Lancaster Laboratories-Range Data Summary

Sample Name: LCSDA 7/18/12 LCSD15199 Sample ID: AA **Batchnumber:** 121990015A
Sample Amount: 1000. Total Volume: 2. ml Analyst: 3263 SDG: State:
Analyses: 08269

Injection Summary

Injected on : 7/20/2012 07:13:18
Instrument : CP18--18847A
Result file : D18201.0043.RAW
Calibration files : 2FULH193A.CAL
Method files : 2REPLOTH.MET 2FUELH.MET
Setting : 2FULH193AW

Surrogate Recoveries

O-TERPHENYL 103% (50-154) Conc.: 24.837

Range	Retention Times	Area	Amount	LOQ	MDL	Flags	Units
Total DRO	2.87 - 13.66	29714047	1482.9866	100	32		ug/l
O-terphenyl	10.33 (10.24 - 10.44)	558746	24.8370				ug/l
Capric Acid	6.62 (6.46 - 6.66)	106452	8.2700				ug/l

Comments:

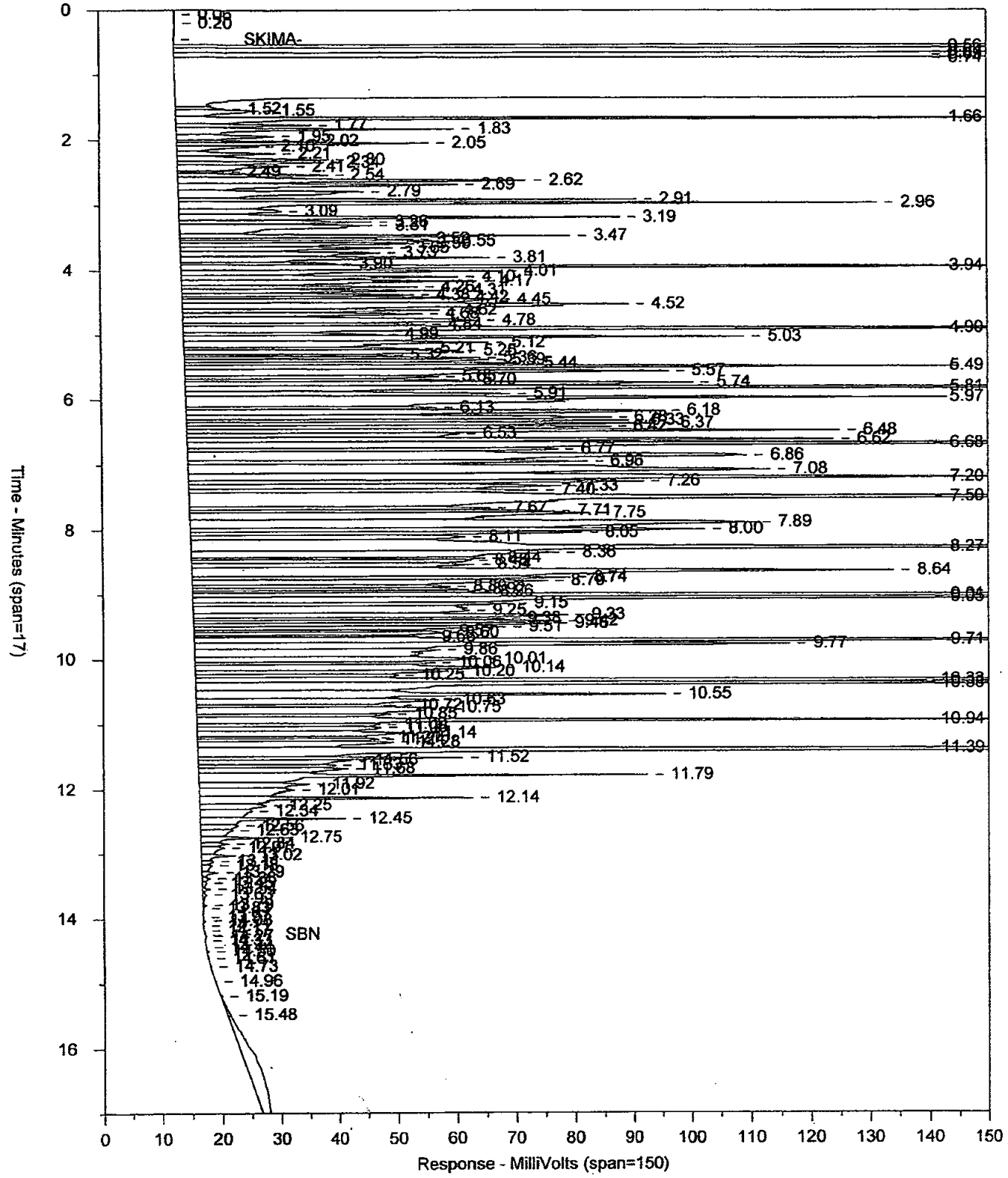
Michele J Smith

Reviewed by: Michele D. Hamilton
Michele D. Hamilton
Senior Chemist Group Leader
Date: JUL 25 2012

Verified by: Michele J. Smith
Date: JUL 25 2012
Michele J. Smith
Senior Specialist

ASX73 2145

LCSDA 7/18/12 AALCSD15199 LCSD 121990015A 08269 SW-846 8015B
D18201.0043.RAW



ASX73 2146

LANCASTER LABORATORIES

Sample Number: LCSDA 7/18/12 AALCSD15199 LCSD 121990015A 08269 Sample Weight: 1000 SW-846 8015B
Injected On: 7/20/2012 7:13:18 AM Dilution Factor: 2
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1
Analyst: 3263

Compound	RT	Amt PPM	Area
C10	2.96	0.01	263488
Capric Acid	6.53	0.01	175222
O-terphenyl	10.33	0.03	703120
C28	13.54	0.00	2591

Range	Start Time	Stop Time	Area
Total DRO	2.87	13.66	29714050

RESULTS TABLE

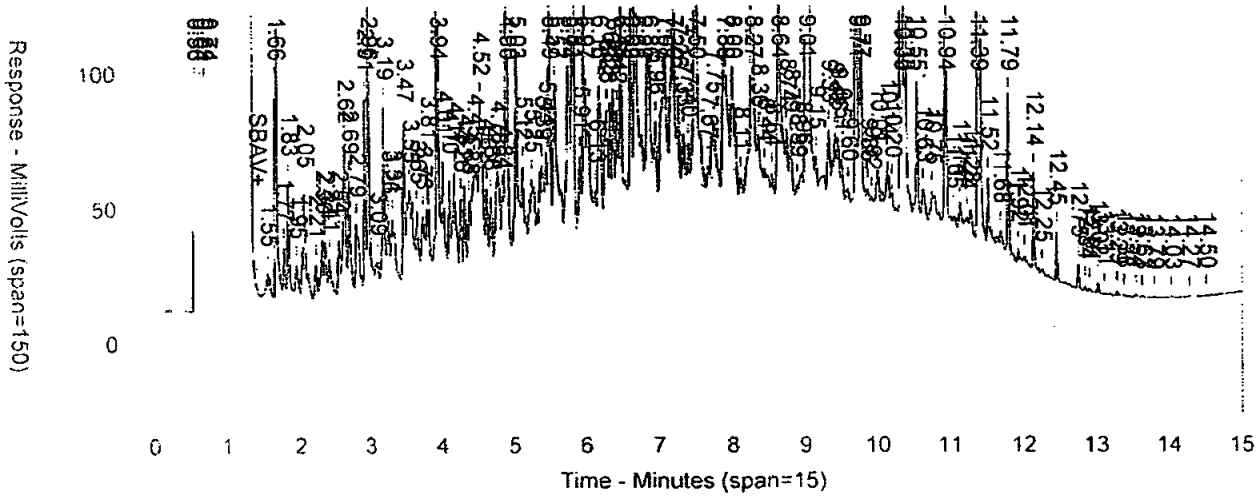
DRO C10-C28 AREA = 29714050

Prelim DRO AMOUNT = 1.51 PPM

Area File: D18201.0043.RAW
Method: 2FUELH.MET
Calibration File: 2FULH193A.CAL
Format: 2FUELH.FMT
Area File Created On: 7/20/2012 7:30:40 AM
File Reported On: 7/23/2012 at 1:39:46 PM

ASX73 2147

LCSDA 7/18/12 AALCSD15199 LCSD 121990015A 08269 D18201.0043.RAW SW-846 8015B

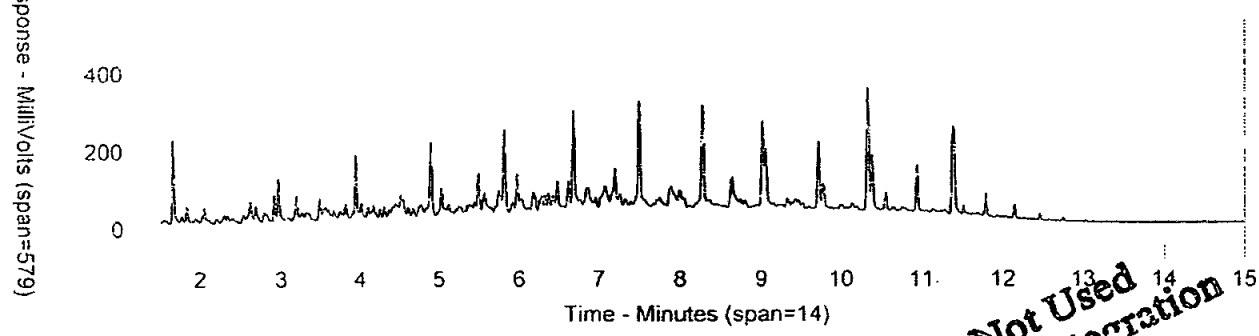


Sample Number: LCSDA 7/18/12 AALCSD15199 LCSD 121990015A 08269 Sample Weight: 100SW-846 801
Injected On: 7/20/2012 7:13:18 AM Dilution Factor: 2
Instrument ID: CP18-18847 Analyst: 3263
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Compound	RT	Amt ppm	Area
C10	2.96	0.0066	150336.4
Capric Acid	6.62	0.0083	106452.3
O-terphenyl	10.33	0.0206	464359.2
C28	13.54	0.0001	1472.033

1000 mL WW & SW o-Terphenyl Recovery =86.0 %
500 mL WW o-Terphenyl Recovery = 172.0 %
o-Terphenyl CCV %D = 416.0 %

1000 ML CAPRIC ACID % RECOVERY = 0.8 %
500 ML CAPRIC ACID % RECOVERY = 1.7 %



Not Used
See Reintegration

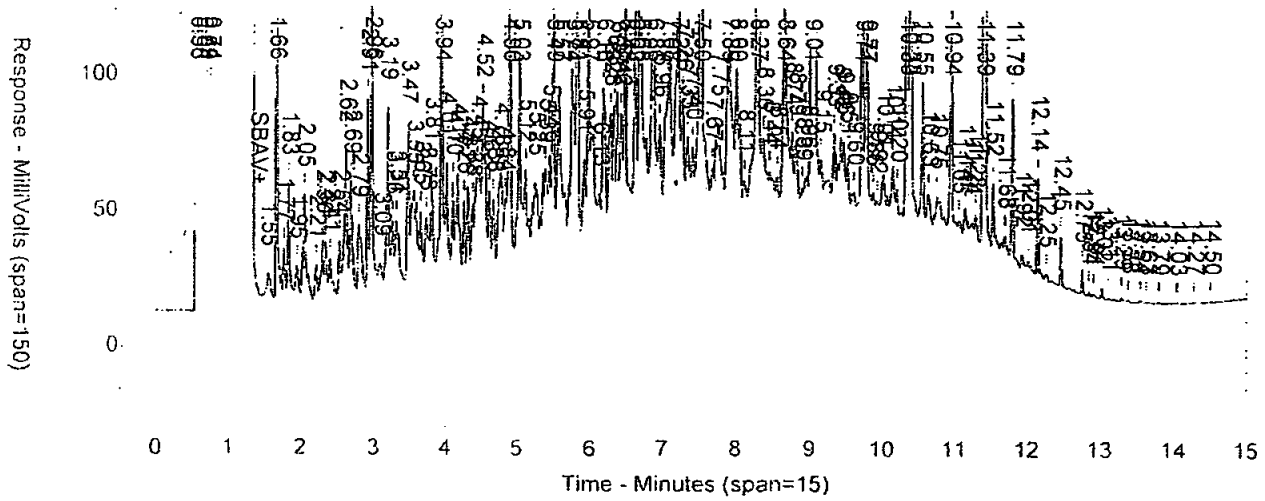
Area File: D18201.0043.RAW
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/20/2012 7:[illegible] AM
File Reported On: 7/25/2012 at 10:58:44 AM

ASX73 2148

Chrom Perfect Chromatogram Report

LCSDA 7/18/12 AALCSD15199 LCSD 121990015A 08269 d18201.0043.raw SW-846 8015B



Sample Number: LCSDA 7/18/12 AALCSD15199 LCSD 121990015A 08269
Injected On: 7/20/2012 7:13:18 AM
Instrument ID: CP18-18847
Oven Parameters: 50C for 1.0min; 15C/min to 190C; 30C/min to 340C, hold 2min
GC Column: HP-5 30m x 0.32mm x 0.25um
Injection Volume: 1

Sample Weight: 1006W-846 801
Dilution Factor: 2
Analyst: 3263

Compound	RT	Amt ppm	Area
C10	2.96	0.0066	150336.4
Capric Acid	6.62	0.0083	106452.3
O-terphenyl	10.33	0.0248	558745.9
C28	13.54	0.0001	1472.033

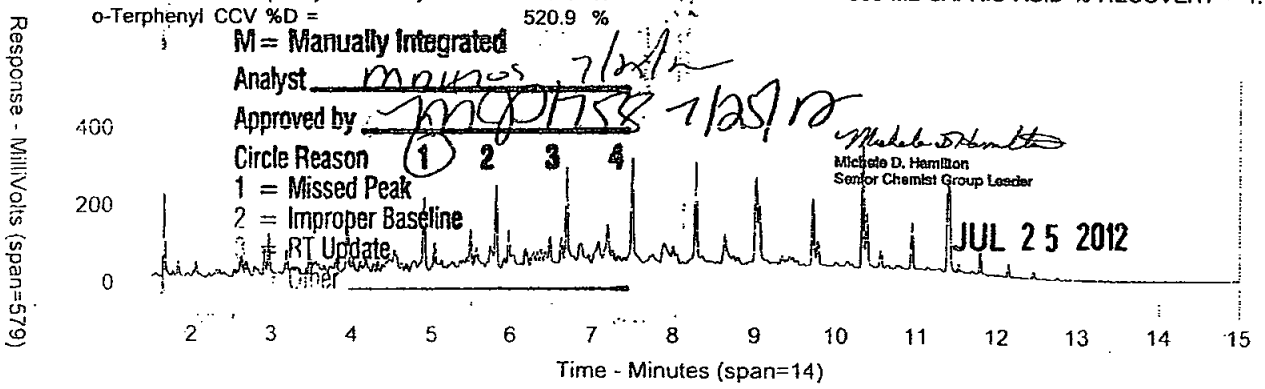
1000 mL WW & SW o-Terphenyl Recovery = 103.5 %
500 mL WW o-Terphenyl Recovery = 207.0 %
o-Terphenyl CCV %D = 520.9 %

1000 ML CAPRIC ACID % RECOVERY = 0.8 %
500 ML CAPRIC ACID % RECOVERY = 1.7 %

M = Manually Integrated
Analyst Mnunos 7/25/12
Approved by MQ 7/25/12
Circle Reason 1 2 3 4
1 = Missed Peak
2 = Improper Baseline
3 = RT Update
4 = Other

Michele D. Hamilton
Senior Chemist Group Leader

JUL 25 2012



Area File: d18201.0043.BND
Method: 2REPLOTH.MET
Calibration File: 2FULH193A.CAL

Format: 2REPLOTH.FMT
Area File Created On: 7/25/2012 1:06:31 PM
File Reported On: 7/25/2012 at 1:06:34 PM

85X73 2149

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog Assigned to: 2257 Cynthia Salvatori Reviewed by: CD 3263 Start Date: 7/18/12 Start time: 905

121990015A

Tech 1: [illegible] Tech 2: [illegible]

Dept: 32	Prep Analysis: 07003 Extraction - DRO (Waters)										TPH-DRO water C10-C28
QC	Sample Code	Amt mL	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANK *	PBLK15199	1000	SS1217732A	1.0			2.0			—	DI H_2O
LCSA *	LCS15199	1000	SS1217732A	1.0	MS1217332B	1.0	2.0			—	
LCSDA *	LCSD15199	1000	SS1217732A	1.0	MS1217332B	1.0	2.0			—	

Solvent Used	Lot No.
1:1 HCl	B054-28
Methylene Chloride	40ED2
Sodium Sulfate	12199A

Spike Solutions: Witness: —
MS1217332B 2UL DRO WATER SPIKE
SS1217732A 2UL DRO WATER SURROGATE

*split w/ 121990014A
1:1 HCl added to BC + all samples

Sample #		Sample Code	Amt mL	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1	6718927	07SW3	1050	SS1217732A	1	2			43B	tan tint	08269	07/25/2012	P
2	6718929	07SW4	1022	SS1217732A	1	2			43B		08269	07/25/2012	P
3	6718931	07SW5	1034	SS1217732A	1	2			43B		08269	07/25/2012	P
4	6718933	07SW6	1035	SS1217732A	1	2			43B		08269	07/25/2012	P
5	6718935	07SW7	1053	SS1217732A	1	2			43B		08269	07/25/2012	P
6	6718937	07SW8	1047	SS1217732A	1	2			43B		08269	07/25/2012	P
7	6718939	07SW9	1052	SS1217732A	1	2			43B		08269	07/25/2012	P
8	6718941	07S10	1042	SS1217732A	1	2			43B		08269	07/25/2012	P
9	6718943	07S11	1043	SS1217732A	1	2			43B		08269	07/25/2012	P
10	6718945	07S12	1045	SS1217732A	1	2			43B		08269	07/25/2012	P
11	6718947	FB712	1017	SS1217732A	1	2			43B	clear	08269	07/25/2012	P
12	6718949	BD712	1049	SS1217732A	1	2			43B	tan tint	08269	07/25/2012	P
13	6720093 *	FS100	1022	SS1217732A	1	2			43B	tan	08269	07/25/2012	P
14	6721504	EB713	996	SS1217732A	1	2			43B	clear	08269	07/26/2012	N

Rack ID:		Work Station	H_2O 2
Internal Standard		Balance #	15661

DF = Dilution Factor FV = Final Volume

S-bath ID 1 88 C | S-bath ID 9 89 C | N-Evap — C | M-vap — C | 121990015A

Documented temps are NIST corrected.

Organic Extraction Batchlog Assigned to: 2804 Katheryne Sponheimer

122000026A

Reviewed by: [illegible] Start Date: 7/19/12 Start time: 8:25

Tech 1: KS2804 Tech 2:

Dept: 32	Prep Analysis: 10942	Microwave Extraction-DRO soils								TPH-DRO soil C10-C28 microwave	
QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
6721497DUP	49-0CDUP	30.4	SS1217732B	1			5	Z	Z	59A	Brown soil w/ Rocks
6721497MS	49-0CMS	30.1	SS1217732B	1	MS1218132A	1	5	Z	Z	59A	↓
BLANKA	PBLK26200	30	SS1217732B	1			5	Z	Z		Na2SO4
LCSA	LCS26200	30	SS1217732B	1	MS1218132A	1	5	Z	Z		↓

Solvent Used	Lot No.
Methylene Chloride	L10E02
Sodium Sulfate	12199A

Spike Solutions: Witness:

MS12195 32B ~~MS1218132A~~ 3C 7/19/12 TPH WORKING SPIKE

SS1217732B TPH SURROGATE STANDARD

Sample #		Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Prio
1	6721497	49-0C	30.1	SS1217732B	1	5	Z	Z	59A	Brown Soil w/ Rocks	10941	07/26/2012	N
2	6721503	32-0C	30.1	SS1217732B	1	5	Z	Z	59A	↓	10941	07/26/2012	N
3	6721507	SB464	30.1	SS1217732B	1	5	Z	Z	59A	↓	10941	07/26/2012	P
4	6722044	134RL	30.1	SS1217732B	1	5	Z	Z	59A	Brown mud	10941	07/27/2012	P
5	6722045	34-03	30.2	SS1217732B	1	5	Z	Z	59A	grey soil	10941	07/27/2012	P
6	6722046	34-04	30.0	SS1217732B	1	5	Z	Z	59A	↓	10941	07/27/2012	P
7	6722361	1094S	30.0	SS1217732B	1	5	Z	Z	59A	Brown mud w/ oily film	10941	07/27/2012	P
8	6722362	1107S	30.0	SS1217732B	1	5	Z	Z	59A	↓	10941	07/27/2012	P
9	6722363	1114S	30.1	SS1217732B	1	5	Z	Z	59A	Brown mud	10941	07/27/2012	P
10	6722686	23140	30.0	SS1217732B	1	5	Z	Z	59A	Sandy Brown mud	10941	07/27/2012	S

KS2804
7/19/12

Rack ID:		Work Station	Micro 16866
Internal Standard		Balance #	17669

S-bath ID 2	88	C	S-bath ID	C	N-Evap	C	M-vap	C	122000026A

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume

Metals in Liquid Data

ASX73 2154

Case Narrative/Conformance Summary

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

ICP Metals

Fraction: Metals in Liquid

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
6721504	EB-07132012	X		1	Equipment Blank

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:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, laboratory spike data (LCS) are provided.

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

The instrument detection limits (IDLs) are used for determining the U flags on the initial and continuing calibration blanks. The highest IDL is selected when multiple instruments are used for an analysis. The method detection limits (MDLs) are used for determining all other U flags.

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

ICP Metals

Fraction: Metals in Liquid

Abbreviation Key

BKG – Background	AF - Cold Vapor Atomic Fluorescence
DUP – Duplicate	U - Below MDL
MS - Matrix Spike	B - Below LOQ
MSD - Matrix Spike Dup	N - Matrix Spike out of specifications
B – Blank	* - Duplicate out of specifications
Q - Laboratory Control Sample	E - Matrix Effects exist as proven by Serial Dilution or Spiked Dilution
Y - Laboratory Control Sample Duplicate	A - Post Digestion Spike
P - ICP Atomic Emission Spectrometer	L - Serial Dilution
MS - ICP Mass Spectrometry	R - Internal Standard Relative Intensity OOS
CV - Cold Vapor	NR - Not Required

Narrative Reviewed and Approved 08.01.12 by
(Date)

Betty L. Umble
Specialist

Sample Data

ASX73 2158

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QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: ASX73
Matrix: WATER Level (low/med): LOW

Lab Sample ID: 6721504 % Solids: 0.0
Concentration Units: UG/L Date Received: 07/16/2012

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	74.3	U		P
7440-36-0	Antimony	3.5	U		P
7440-38-2	Arsenic	6.8	U		P
7440-39-3	Barium	0.33	U		P
7440-41-7	Beryllium	0.67	U		P
7440-43-9	Cadmium	0.36	U		P
7440-70-2	Calcium	64.0	U		P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	0.66	U		P
7440-50-8	Copper	25.0			P
7439-89-6	Iron	33.3	U		P
7439-92-1	Lead	5.1	U		P
7439-95-4	Magnesium	60.6	U		P
7439-96-5	Manganese	0.83	U		P
7439-97-6	Mercury	0.031	B		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	145	U		P
7782-49-2	Selenium	7.5	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	167	U		P
7440-28-0	Thallium	5.7	U		P
7440-62-2	Vanadium	1.3	U		P
7440-66-6	Zinc	2.0	U		P

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence
NR = Not Required

CONCENTRATION QUALIFIERS:
U = Below MDL,
B = Below LOQ

Quality Control and Calibration Summary Forms

ASX73 2168

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QUALITY CONTROL REFERENCE LIST

SDG No.: ASX73
Matrix: WATER

Analyte	Batch ID	Lab Sample ID
Aluminum	P20048C	6721504
Antimony		P20048CB
Arsenic		P20048CQ
Barium		P20048CY
Beryllium		
Cadmium		
Calcium		
Chromium		
Cobalt		
Copper		
Iron		
Lead		
Magnesium		
Manganese		
Nickel		
Potassium		
Selenium		
Silver		
Sodium		
Thallium		
Vanadium		
Zinc		

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

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QUALITY CONTROL REFERENCE LIST

SDG No.: ASX73
Matrix: WATER

Analyte	Batch ID	Lab Sample ID
Mercury	P20113B	6721504
		P20113BB
		P20113BQ
		P20113BY

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

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QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: ASX73

Method: P
Run Name: 1220106T71
Calibration Date(s): 07/19/2012
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)	True	Found	%R(2)
Aluminum		30000.0	29479.92	98.3	25000.0	24561.07	98.2	25000.0	24482.33	97.9
Antimony		600.0	605.96	101.0	500.0	502.03	100.4	500.0	506.09	101.2
Arsenic		600.0	607.34	101.2	500.0	500.34	100.1	500.0	503.54	100.7
Barium		600.0	603.85	100.6	500.0	515.22	103.0	500.0	503.21	100.6
Beryllium		600.0	603.00	100.5	500.0	498.26	99.7	500.0	490.88	98.2
Cadmium		600.0	607.63	101.3	500.0	504.11	100.8	500.0	498.93	99.8
Calcium		30000.0	29852.30	99.5	25000.0	24923.24	99.7	25000.0	24559.26	98.2
Chromium		600.0	587.40	97.9	500.0	495.75	99.2	500.0	484.33	96.9
Cobalt		600.0	600.37	100.1	500.0	497.33	99.5	500.0	496.40	99.3
Copper		600.0	603.43	100.6	500.0	510.13	102.0	500.0	506.06	101.2
Iron		30000.0	29544.72	98.5	25000.0	24621.55	98.5	25000.0	24462.05	97.8
Lead		600.0	601.35	100.2	500.0	498.33	99.7	500.0	494.28	98.9
Magnesium		30000.0	29387.74	98.0	25000.0	24630.15	98.5	25000.0	24469.06	97.9
Manganese		600.0	595.85	99.3	500.0	501.96	100.4	500.0	495.31	99.1
Nickel		600.0	601.20	100.2	500.0	499.59	99.9	500.0	499.49	99.9
Potassium		30000.0	29447.14	98.2	25000.0	24271.63	97.1	25000.0	23983.81	95.9
Selenium		600.0	603.24	100.5	500.0	498.88	99.8	500.0	502.91	100.6
Silver		600.0	600.14	100.0	500.0	505.07	101.0	500.0	502.71	100.5
Sodium		30000.0	29398.32	98.0	25000.0	24413.84	97.7	25000.0	24251.79	97.0
Thallium		600.0	605.99	101.0	500.0	504.02	100.8	500.0	502.48	100.5
Vanadium		600.0	596.09	99.3	500.0	502.16	100.4	500.0	496.06	99.2
Zinc		600.0	583.36	97.2	500.0	484.27	96.9	500.0	484.72	96.9

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: ASX73

Method: CV
Run Name: 1220603M07
Calibration Date(s): 07/24/2012
Concentration Units: UG/L

Analyte	Mass	Initial Calibration			Continuing Calibration					
		True	Found	%R(1)	True	Found	%R(2)	True	Found	%R(2)
Mercury		2.5	2.40	96.0	1.0	0.99	99.0	1.0	1.00	100.0

(1) Control Limits: 90 - 110
(2) Control Limits: 80 - 120

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: ASX73

Method: CV
Run Name: 1220603M07
Calibration Date(s): 07/24/2012
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)
Mercury					1.0	1.01	101.0	1.0	1.04	104.0

(1) Control Limits: 90 - 110
(2) Control Limits: 80 - 120

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: ASX73

Method: P
Run Name: 1220106T71
Calibration Date(s): 07/19/2012
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum		200.0	226.87	113.4	158.53	79.3
Antimony		20.0	20.89	104.5	19.81	99.1
Arsenic		20.0	19.86	99.3	21.89	109.5
Barium		5.0	5.06	101.2	5.14	102.8
Beryllium		5.0	4.99	99.8	4.96	99.2
Cadmium		5.0	4.94	98.8	5.47	109.4
Calcium		200.0	184.72	92.4	181.84	90.9
Chromium		15.0	14.81	98.7	14.66	97.7
Cobalt		5.0	5.34	106.8	5.15	103.0
Copper		10.0	9.89	98.9	9.40	94.0
Iron		200.0	205.91	103.0	186.35	93.2
Lead		15.0	15.73	104.9	15.30	102.0
Magnesium		100.0	88.67	88.7	97.46	97.5
Manganese		5.0	5.26	105.2	5.18	103.6
Nickel		10.0	10.35	103.5	10.25	102.5
Potassium		500.0	467.16	93.4	506.13	101.2
Selenium		20.0	18.69	93.5	20.91	104.6
Silver		5.0	5.79	115.8	5.09	101.8
Sodium		1000.0	992.05	99.2	956.12	95.6
Thallium		30.0	31.42	104.7	32.15	107.2
Vanadium		5.0	5.12	102.4	4.66	93.2
Zinc		20.0	19.40	97.0	19.51	97.6

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: ASX73

Method: CV
Run Name: 1220603M07
Calibration Date(s): 07/24/2012
Concentration Units: UG/L

Analyte	Mass	True	Initial Found	Initial %R	Final Found	Final %R
Mercury		0.2	0.21	105.0		

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: ASX73

Method: P
Run Name: 1220106T71
Calibration Date(s): 07/19/2012
Preparation Blank Matrix: WATER

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Mass	Preparation Blank (UG/L)	C	Lab Sample ID
Aluminum		33.3	U	33.3	U	33.3	U				74.300	U	P20048CB
Antimony		2.1	U	2.1	U	2.1	U				3.500	U	P20048CB
Arsenic		3.1	U	3.1	U	3.1	U				6.800	U	P20048CB
Barium		0.33	U	0.33	U	0.33	U				0.330	U	P20048CB
Beryllium		0.67	U	0.67	U	0.67	U				0.670	U	P20048CB
Cadmium		0.68	U	0.68	U	0.68	U				0.360	U	P20048CB
Calcium		33.4	U	33.4	U	33.4	U				64.000	U	P20048CB
Chromium		0.77	U	0.77	U	0.77	U				1.100	U	P20048CB
Cobalt		0.48	U	0.48	U	0.48	U				0.660	U	P20048CB
Copper		1.7	U	1.7	U	1.7	U				2.100	U	P20048CB
Iron		33.3	U	33.3	U	33.3	U				33.300	U	P20048CB
Lead		2.2	B	1.9	U	1.9	U				5.100	U	P20048CB
Magnesium		16.7	U	16.7	U	16.7	U				60.600	U	P20048CB
Manganese		0.83	U	0.83	U	0.83	U				0.830	U	P20048CB
Nickel		1.0	U	1.0	U	1.0	U				1.100	U	P20048CB
Potassium		83.4	U	83.4	U	83.4	U				145.000	U	P20048CB
Selenium		3.4	U	3.4	U	3.4	U				7.500	U	P20048CB
Silver		0.69	U	1.0	B	0.87	B				1.200	U	P20048CB
Sodium		167	U	167	U	167	U				167.000	U	P20048CB
Thallium		1.7	U	1.7	U	1.7	U				5.700	U	P20048CB
Vanadium		0.83	U	0.83	U	0.83	U				1.300	U	P20048CB
Zinc		2.0	U	2.0	U	2.0	U				2.000	U	P20048CB

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

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QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: ASX73

Method: CV
Run Name: 1220603M07
Calibration Date(s): 07/24/2012
Preparation Blank Matrix: WATER

		Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (UG/L)			
Analyte	Mass		C	1	C	2	C	3	C	Mass		C	Lab Sample ID
Mercury		0.036	B	0.028	U	0.028	U	0.029	B		0.019	B	P20113BB

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

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QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: ASX73

Method: CV
Run Name: 1220603M07
Calibration Date(s): 07/24/2012

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank (UG/L) Mass		C	Lab Sample ID
Mercury				0.063	B								

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

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QUALITY ASSURANCE SUMMARY
FORM 4A
ICP-AES INTERFERENCE CHECK SAMPLE
SDG No.: ASX73

Instrument ID: 16315
Run Name: 1220106T71
Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500000	500000	495439	99.1	495285.7	99.1	495879	99.2	495273.1	99.1
Antimony	0	600	3		605.2	100.9	6		618.3	103.1
Arsenic	0	100	8		103.7	103.7	10		109.9	109.9
Barium	0	500	0		536.9	107.4	0		539.9	108.0
Beryllium	0	500	0		497.3	99.5	0		493.5	98.7
Cadmium	0	1000	1		945.5	94.6	1		940.1	94.0
Calcium	500000	500000	497866	99.6	495590.5	99.1	496394	99.3	494496.4	98.9
Chromium	0	500	3		481.5	96.3	3		475.6	95.1
Cobalt	0	500	2		484.5	96.9	2		485.2	97.0
Copper	0	500	-5		535.8	107.2	-5		544.2	108.8
Iron	200000	200000	197566	98.8	197283.7	98.6	196892	98.4	196330.9	98.2
Lead	0	50	6		51.2	102.4	4		49.3	98.6
Magnesium	500000	500000	471778	94.4	471474.8	94.3	463355	92.7	452578.8	90.5
Manganese	0	500	4		485.5	97.1	4		479.5	95.9
Nickel	0	1000	1		944.9	94.5	2		949.1	94.9
Potassium	0	0	79		88.9		30		43.8	
Selenium	0	50	3		46.8	93.6	0		48.9	97.8
Silver	0	200	-1		215.8	107.9	-1		217.4	108.7
Sodium	0	0	65		67.6		55		42.4	
Thallium	0	100	11		99.7	99.7	9		102.5	102.5
Vanadium	0	500	0		507.6	101.5	0		504.3	100.9
Zinc	0	1000	-10		965.4	96.5	-9		973.7	97.4

Control Limits: All Metals 80%-120%

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QUALITY ASSURANCE SUMMARY
FORM 7(LCS/LCSD)
LABORATORY CONTROL SAMPLE/SAMPLE DUPLICATE
SDG No.: ASX73
Matrix: WATER

Analyte	Mass	Lab Sample ID LCS	LCSD	Units	True	LCS Found	C	%R	LCSD Found	C	%R	Control Limits (%)	RPD	M	In Spec
Aluminum		P20048CQ	P20048CY	UG/L	2000.0	2002.08		100	2079.40		104	90 - 112	4	P	Yes
Antimony		P20048CQ	P20048CY	UG/L	500.0	512.44		102	511.16		102	88 - 111	0	P	Yes
Arsenic		P20048CQ	P20048CY	UG/L	150.0	155.15		103	152.72		102	80 - 120	2	P	Yes
Barium		P20048CQ	P20048CY	UG/L	2000.0	2062.56		103	2036.07		102	90 - 110	1	P	Yes
Beryllium		P20048CQ	P20048CY	UG/L	50.0	51.14		102	50.82		102	88 - 110	1	P	Yes
Cadmium		P20048CQ	P20048CY	UG/L	50.0	50.87		102	51.69		103	90 - 112	2	P	Yes
Calcium		P20048CQ	P20048CY	UG/L	4000.0	4121.02		103	4054.32		101	90 - 110	2	P	Yes
Chromium		P20048CQ	P20048CY	UG/L	200.0	201.97		101	200.36		100	90 - 110	1	P	Yes
Cobalt		P20048CQ	P20048CY	UG/L	500.0	517.04		103	515.16		103	90 - 110	0	P	Yes
Copper		P20048CQ	P20048CY	UG/L	250.0	265.54		106	263.09		105	90 - 112	1	P	Yes
Iron		P20048CQ	P20048CY	UG/L	1000.0	1021.67		102	999.24		100	90 - 112	2	P	Yes
Lead		P20048CQ	P20048CY	UG/L	150.0	152.79		102	153.38		102	88 - 110	0	P	Yes
Magnesium		P20048CQ	P20048CY	UG/L	2000.0	2044.29		102	2009.89		100	90 - 110	2	P	Yes
Manganese		P20048CQ	P20048CY	UG/L	500.0	509.50		102	508.66		102	90 - 110	0	P	Yes
Mercury		P20113BQ	P20113BY	UG/L	1.0	0.90		90	0.93		93	80 - 120	3	CV	Yes
Nickel		P20048CQ	P20048CY	UG/L	500.0	522.90		105	520.16		104	90 - 111	1	P	Yes
Potassium		P20048CQ	P20048CY	UG/L	10000.0	9852.51		99	9761.68		98	85 - 115	1	P	Yes
Selenium		P20048CQ	P20048CY	UG/L	150.0	152.48		102	150.05		100	80 - 120	2	P	Yes
Silver		P20048CQ	P20048CY	UG/L	50.0	51.57		103	51.79		104	80 - 120	0	P	Yes
Sodium		P20048CQ	P20048CY	UG/L	10000.0	10014.25		100	9877.59		99	87 - 114	1	P	Yes
Thallium		P20048CQ	P20048CY	UG/L	150.0	155.13		103	155.03		103	85 - 113	0	P	Yes
Vanadium		P20048CQ	P20048CY	UG/L	500.0	511.34		102	506.95		101	90 - 110	1	P	Yes
Zinc		P20048CQ	P20048CY	UG/L	500.0	499.94		100	498.32		100	90 - 110	0	P	Yes

RPD Control Limit: 20

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

ASX73 2172

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QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: ASX73

Method: P
Instrument ID: 16315
Date: 07/2012

Analyte	Wavelength (nm)	Background	IDL (UG/L)
Aluminum	308.21		33.3
Antimony	206.83		2.1
Arsenic	189.04		3.1
Barium	455.40		0.33
Beryllium	313.04		0.67
Cadmium	226.50		0.68
Calcium	317.93		33.4
Chromium	267.72		0.77
Cobalt	228.62		0.48
Copper	327.40		1.7
Iron	261.19		33.3
Lead	220.35		1.9
Magnesium	285.21		16.7
Manganese	257.61		0.83
Nickel	231.60		1.0
Potassium	766.49		83.4
Selenium	196.09		3.4
Silver	328.06		0.69
Sodium	589.59		167
Thallium	190.86		1.7
Vanadium	292.40		0.83
Zinc	213.86		2.0

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: ASX73

Method: CV
Instrument ID: 17384
Date: 07/2012

Analyte	Wavelength (nm)	Background	IDL (UG/L)
Mercury	254.00		0.028

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: ASX73
Matrix: WATER

Method: P
Date: 06/2012

Analyte	Wavelength (nm)	Background	LOQ (UG/L)	MDL (UG/L)
Aluminum	308.21		200	74.3
Antimony	206.83		20.0	3.5
Arsenic	189.04		20.0	6.8
Barium	455.40		5.0	0.33
Beryllium	313.04		5.0	0.67
Cadmium	226.50		5.0	0.36
Calcium	317.93		200	64.0
Chromium	267.72		15.0	1.1
Cobalt	228.62		5.0	0.66
Copper	327.40		10.0	2.1
Iron	261.19		200	33.3
Lead	220.35		15.0	5.1
Magnesium	285.21		100	60.6
Manganese	257.61		5.0	0.83
Nickel	231.60		10.0	1.1
Potassium	766.49		500	145
Selenium	196.09		20.0	7.5
Silver	328.06		5.0	1.2
Sodium	589.59		1000	167
Thallium	190.86		30.0	5.7
Vanadium	292.40		5.0	1.3
Zinc	213.86		20.0	2.0

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: ASX73
Matrix: WATER

Method: CV
Date: 06/2012

Analyte	Wavelength (nm)	Background	LOQ (UG/L)	MDL (UG/L)
Mercury	254.00		0.20	0.0081

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS
(BIANNUALLY)
SDG No.: ASX73

Instrument ID: 16315
Date: 11/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: AL	CA	FE	MG	BE
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	-0.0000110	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000500	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	327.40	0.0000000	0.0000290	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002190	0.0000000	0.0000210	0.0000000	0.0000000
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	-0.0000150	0.0000000	0.0002620
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	-0.0000150	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000130	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000540	0.0000000	0.0000000

Comments:

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QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS
(BIANNUALLY)
SDG No.: ASX73

Instrument ID: 16315
Date: 11/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: CO	CR	CU	MN	MO
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0158000
Antimony	206.83	0.0000000	0.0161400	0.0000000	0.0000000	-0.0013400
Arsenic	189.04	0.0000000	0.0004250	0.0000000	0.0000000	0.0012400
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000130	0.0000000	0.0000000	-0.0000040
Copper	327.40	0.0004600	0.0000000	0.0000000	0.0000000	-0.0014300
Lead	220.35	0.0000600	0.0000500	0.0002420	0.0000000	-0.0004460
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	-0.0004760	0.0000000	0.0000000	0.0000000	0.0005260
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000160	-0.0001630	0.0000000	0.0004790	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0037560	0.0002880	0.0000000	0.0015810	-0.0005000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0001600	-0.0026800
Zinc	213.86	0.0000000	0.0000000	0.0007830	0.0000000	0.0000000

Comments:

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QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS
(BIANNUALLY)
SDG No.: ASX73

Instrument ID: 16315
Date: 11/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: NI	SI	SN	TI	V
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0564000
Antimony	206.83	0.0001630	0.0000000	0.0000610	0.0000000	0.0004560
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000040	0.0001160
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0001140	0.0000000	0.0000000	0.0020220	0.0000000
Copper	327.40	0.0000000	0.0000000	0.0000000	-0.0031800	-0.0000340
Lead	220.35	0.0001140	0.0001020	0.0000000	0.0000000	0.0000000
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0001060	0.0021600
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0007680	0.0000000
Zinc	213.86	0.0043800	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS
(BIANNUALLY)
SDG No.: ASX73

Instrument ID: 16315
Date: 11/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: ZR	--	--	--	--
Aluminum	308.21	0.0000000				
Antimony	206.83	0.0000000				
Arsenic	189.04	0.0000000				
Beryllium	313.04	0.0000000				
Cadmium	226.50	0.0000000				
Cobalt	228.62	0.0000000				
Copper	327.40	0.0000000				
Lead	220.35	0.0000000				
Magnesium	285.21	0.0000000				
Nickel	231.60	0.0000000				
Potassium	766.49	0.0000000				
Selenium	196.09	0.0000000				
Silver	328.06	0.0068660				
Thallium	190.86	0.0000000				
Vanadium	292.40	0.0000000				
Zinc	213.86	0.0000000				

Comments:

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QUALITY ASSURANCE SUMMARY
FORM 12
LINEAR RANGES
SDG No.: ASX73

Method: P
Instrument ID: 16315
Date: 07/2012

Analyte	Wavelength (nm)	Integration Time (Sec.)	Concentration (ug/L)
Aluminum	308.21	10.00	600000.0
Antimony	206.83	10.00	10000.0
Arsenic	189.04	10.00	20000.0
Barium	455.4	10.00	5000.0
Beryllium	313.04	10.00	5000.0
Cadmium	226.5	10.00	20000.0
Calcium	317.93	10.00	600000.0
Chromium	267.72	10.00	20000.0
Cobalt	228.62	10.00	10000.0
Copper	327.4	10.00	10000.0
Iron	261.19	10.00	300000.0
Lead	220.35	10.00	10000.0
Magnesium	285.21	10.00	600000.0
Manganese	257.61	10.00	10000.0
Nickel	231.6	10.00	10000.0
Potassium	766.49	10.00	100000.0
Selenium	196.09	10.00	10000.0
Silver	328.06	10.00	10000.0
Sodium	589.59	10.00	100000.0
Thallium	190.86	10.00	10000.0
Vanadium	292.4	10.00	20000.0
Zinc	213.86	10.00	10000.0

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: ASX73

Method: P
Batch ID: P20048C

Lab Sample ID	Date	Initial Volume(ml)	Final Volume(ml)
6721504	07/19/2012	50.00	50
P20048CB	07/19/2012	50.00	50
P20048CQ	07/19/2012	1.00	1
P20048CY	07/19/2012	1.00	1

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: ASX73

Method: CV
Batch ID: P20113B

Lab Sample ID	Date	Initial Volume(ml)	Final Volume(ml)
6721504	07/20/2012	40.00	40
P20113BB	07/20/2012	40.00	40
P20113BQ	07/20/2012	1.00	1
P20113BY	07/20/2012	1.00	1

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: ASX73

Method: P
Instrument ID: 16315
Run Name: 1220106T71

Run Start Date: 07/19/2012
Run End Date: 07/19/2012

Lab Sample ID	D/F	Time	Analytes																													
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN							
S0	1.00	19:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
S	1.00	19:16	X						X				X		X				X			X										
S	1.00	19:19			X	X	X	X			X	X		X		X		X		X	X		X		X							
S	1.00	19:24		X						X														X								
ICV	1.00	19:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
ICB	1.00	19:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
LLC	1.00	19:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
ICSA	1.00	19:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
ICSAB	1.00	19:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
CCV	1.00	19:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
CCB	1.00	19:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
P20048CB	1.00	19:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
P20048CQ	1.00	20:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
P20048CY	1.00	20:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
6721504	1.00	20:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
LLC	1.00	20:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
ICSA	1.00	20:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
ICSAB	1.00	20:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
CCV	1.00	20:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							
CCB	1.00	20:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X							

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: ASX73

Method: CV
Instrument ID: 17384
Run Name: 1220603M07

Run Start Date: 07/24/2012
Run End Date: 07/24/2012

Lab Sample ID	D/F	Time	Analytes																													
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN							
S0	1.00	12:31															X															
S0.2	1.00	12:33															X															
S0.5	1.00	12:35															X															
S1.0	1.00	12:37															X															
S2.5	1.00	12:39															X															
S5.0	1.00	12:41															X															
ICV	1.00	12:43															X															
ICB	1.00	12:45															X															
CRA	1.00	12:47															X															
CCV	1.00	12:49															X															
CCB	1.00	12:51															X															
ZZZZZZ	1.00	12:53																														
ZZZZZZ	1.00	12:55																														
ZZZZZZ	1.00	12:58																														
ZZZZZZ	1.00	13:00																														
ZZZZZZ	1.00	13:02																														
ZZZZZZ	1.00	13:04																														
ZZZZZZ	1.00	13:06																														
ZZZZZZ	1.00	13:08																														
ZZZZZZ	1.00	13:10																														
ZZZZZZ	1.00	13:12																														
CCV	1.00	13:14															X															
CCB	1.00	13:16															X															
ZZZZZZ	1.00	13:18																														
ZZZZZZ	1.00	13:20																														
ZZZZZZ	1.00	13:22																														
ZZZZZZ	1.00	13:24																														
ZZZZZZ	1.00	13:26																														
ZZZZZZ	1.00	13:29																														
ZZZZZZ	1.00	13:31																														
ZZZZZZ	1.00	13:33																														
ZZZZZZ	1.00	13:35																														
ZZZZZZ	1.00	13:37																														
CCV	1.00	13:39															X															
CCB	1.00	13:41															X															
ZZZZZZ	1.00	13:43																														
P20113BB	1.00	13:45															X															
P20113BQ	1.00	13:47															X															

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: ASX73

Method: CV
Instrument ID: 17384
Run Name: 1220603M07

Run Start Date: 07/24/2012
Run End Date: 07/24/2012

Lab Sample ID	D/F	Time	Analytes																												
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN							
P20113BY	1.00	13:49															X															
6721504	1.00	13:51															X															
ZZZZZZ	1.00	13:53																														
ZZZZZZ	1.00	13:56																														
ZZZZZZ	1.00	13:58																														
ZZZZZZ	1.00	14:00																														
ZZZZZZ	1.00	14:02																														
CCV	1.00	14:04															X															
CCB	1.00	14:06															X															

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

Raw Data

ASX73 2187

ICP Data

ASX73 2188

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ICP-AES Run Data Report

1220106T71

Reviewed By
John W Yanzuk

Reviewed Date
07/19/2012 9:18PM

Data File Name 1220106T71.TXT
Run Name: 1220106T71

Verified By:
Jennifer L Moyer

Verified Date
07/20/2012 1:54PM

Method Reference Name(s):
SW-846 6010B

Analyst Employee: 1496

Instrument Parameters:

Individual Integration Time: 10.00 sec Total Integration Time: 30.00 sec Rinse Time: 15.00 sec

Element	Analyte Name	Wavelength Value
AG	Silver	328.06
AL	Aluminum	308.21
AS	Arsenic	189.04
AU	Gold	242.80
B	Boron	249.67
BA	Barium	455.40
BE	Beryllium	313.04
CA	Calcium	317.93
CD	Cadmium	226.50
CO	Cobalt	228.62
CR	Chromium	267.72
CU	Copper	327.40
FE	Iron	261.19
K	Potassium	766.49
LI	Lithium	670.78
MG	Magnesium	285.21
MN	Manganese	257.61
MO	Molybdenum	202.03
NA	Sodium	589.59
NI	Nickel	231.60
P	Phosphorus	177.49
PB	Lead	220.35
SB	Antimony	206.83
SE	Selenium	196.09
SI	Silicon	251.60
SN	Tin	189.99
SR	Strontium	421.55
TI	Titanium	334.94
TL	Thallium	190.86
V	Vanadium	292.40
Y1	Yttrium	224.31
Y2	Yttrium	371.03
ZN	Zinc	213.86
ZR	Zirconium	339.19

The TRACE ICP utilizes Yttrium as an internal standard to compensate for fluctuations in nebulization and plasma conditions. All Yttrium readings are expressed in counts.

LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 1

Date/Time: 07/19/2012 19:12

Sample Number: **S0**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	0.000	-0.00724	10.861	-0.00663	-0.00697	-0.00813
AL	0.000	0.01249	21.671	0.01069	0.01560	0.01118
AS	0.000	-0.00327	36.702	-0.00268	-0.00466	-0.00249
B	0.000	0.00006	9.179	0.00006	0.00006	0.00007
BA	0.000	0.00024	10.181	0.00021	0.00025	0.00026
BE	0.000	-0.03660	3.049	-0.03639	-0.03560	-0.03780
CA	0.000	0.00414	8.716	0.00451	0.00380	0.00410
CD	0.000	-0.04009	20.700	-0.04560	-0.03055	-0.04412
CO	0.000	-0.00228	328.057	0.00597	-0.00860	-0.00421
CR	0.000	0.00004	26.286	0.00003	0.00005	0.00004
CU	0.000	0.00451	22.253	0.00471	0.00343	0.00541
FE	0.000	0.00027	41.834	0.00018	0.00039	0.00023
K	0.000	0.00493	987.080	-0.00704	-0.03666	0.05850
LI	0.000	0.00325	19.649	0.00354	0.00369	0.00252
MG	0.000	0.00090	54.129	0.00137	0.00092	0.00040
MN	0.000	0.00177	38.647	0.00135	0.00140	0.00256
MO	0.000	0.00746	33.429	0.00459	0.00862	0.00915
NA	0.000	0.00522	6.071	0.00545	0.00537	0.00486
NI	0.000	0.03209	11.462	0.03614	0.02897	0.03115
P	0.000	0.00004	69.481	0.00001	0.00007	0.00005
PB	0.000	-0.01651	37.731	-0.02351	-0.01158	-0.01444
S	0.000	0.00084	0.424	0.00084	0.00084	0.00084
SB	0.000	-0.00005	97.138	-0.00010	-0.00002	-0.00002
SE	0.000	-0.00185	231.708	0.00103	0.00020	-0.00679
SI	0.000	0.00010	75.107	0.00017	0.00002	0.00011
SN	0.000	0.00003	5323.278	0.00113	0.00094	-0.00197
SR	0.000	0.00010	43.783	0.00006	0.00014	0.00009
TI	0.000	0.00202	49.384	0.00108	0.00191	0.00307
TL	0.000	0.00970	36.094	0.01374	0.00788	0.00748
V	0.000	0.00038	289.585	0.00067	0.00129	-0.00083
Y1	0.000	13537.73913	0.141	13558.11713	13520.13455	13534.96570
Y2A	0.000	336388.83366	0.239	337226.47449	336313.20411	335626.82240
Y2R	0.000	9589.02405	0.201	9569.90722	9588.67671	9608.48821
ZN	0.000	0.02919	5.032	0.03081	0.02795	0.02881
ZR	0.000	0.00012	162.832	-0.00004	0.00006	0.00033

ASX73 2198

LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 2

Date/Time: 07/19/2012 19:16

Sample Number: **S1**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AL	50.000	11.52802	0.286	11.56600	11.51159	11.50648
CA	50.000	1.97933	0.343	1.98259	1.98387	1.97153
FE	50.000	0.56464	0.331	0.56533	0.56607	0.56252
K	50.000	27.80929	0.274	27.77022	27.89701	27.76063
MG	50.000	3.03615	0.418	3.04177	3.04507	3.02162
NA	50.000	2.19992	0.352	2.20216	2.20630	2.19129
SI	50.000	0.29997	0.243	0.30055	0.30022	0.29915
Y2R	50.000	9681.68740	0.215	9663.79741	9676.78964	9704.47515

ASX73 2191

LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 3

Date/Time: 07/19/2012 19:19

Sample Number: **S2**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	1.000	2.26543	0.313	2.26702	2.25767	2.27160
AS	1.000	1.54969	0.182	1.55291	1.54764	1.54853
B	1.000	0.02685	0.252	0.02691	0.02677	0.02686
BA	1.000	1.54790	0.380	1.55205	1.54116	1.55048
BE	1.000	72.98650	0.322	72.71838	73.08450	73.15661
CD	1.000	16.04317	0.188	16.07751	16.02083	16.03117
CO	1.000	18.11284	0.242	18.15426	18.11725	18.06699
CU	1.000	1.71730	0.097	1.71861	1.71543	1.71785
LI	1.000	0.25320	0.592	0.25154	0.25445	0.25361
MN	1.000	7.69212	0.269	7.70738	7.66858	7.70040
NI	1.000	9.98016	0.267	10.00995	9.95849	9.97206
P	1.000	0.03513	0.315	0.03521	0.03517	0.03500
PB	1.000	3.60342	0.283	3.59191	3.61124	3.60711
SE	1.000	1.34083	0.233	1.34281	1.34244	1.33723
SR	1.000	1.97513	0.140	1.97290	1.97823	1.97425
TL	1.000	1.91266	0.318	1.91839	1.91332	1.90627
Y1	1.000	13390.27803	0.205	13359.00047	13401.62569	13410.20794
Y2A	1.000	336004.05898	0.083	335731.61034	335989.81113	336290.75547
Y2R	1.000	9638.96752	0.371	9597.98782	9655.20168	9663.71306
ZN	1.000	29.35294	0.216	29.42402	29.33299	29.30182

ASX73 2192

LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 4

Date/Time: 07/19/2012 19:24

Sample Number: S3

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
CR	1.000	0.03083	0.336	0.03094	0.03074	0.03081
MO	1.000	11.53608	0.147	11.51756	11.53995	11.55072
S	1.000	0.01843	0.757	0.01842	0.01858	0.01830
SB	1.000	0.04265	0.220	0.04273	0.04268	0.04255
SN	1.000	3.90674	0.130	3.91031	3.90093	3.90897
TI	1.000	7.93045	0.372	7.96282	7.90511	7.92343
V	1.000	2.35866	0.320	2.36732	2.35341	2.35524
Y1	1.000	13653.75931	0.201	13684.36255	13645.66556	13631.24983
Y2A	1.000	342633.20080	0.035	342513.41948	342753.31345	342632.86945
Y2R	1.000	9781.05825	0.607	9828.56145	9714.45344	9800.15987
ZR	1.000	0.08540	1.915	0.08370	0.08554	0.08696

ASX73 2193

LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 5

Date/Time: 07/19/2012 19:28

Sample Number: **ICV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.60014	9,133.92	0.767	0.59698	0.59802	0.60542
AL	29.47992	1,306.32	0.247	29.51857	29.52527	29.39593
AS	0.60734	248.11	0.757	0.60283	0.60718	0.61203
B	0.59617	5,521.60	1.250	0.58952	0.59478	0.60422
BA	0.60385	314,466.07	0.628	0.60387	0.60005	0.60763
BE	0.60300	296,052.46	0.999	0.59730	0.60241	0.60930
CA	29.85230	11,368.24	0.276	29.92964	29.86163	29.76564
CD	0.60763	2,596.93	0.286	0.60610	0.60726	0.60952
CO	0.60037	2,903.48	0.378	0.59820	0.60019	0.60273
CR	0.58740	6,097.06	0.955	0.58321	0.58520	0.59377
CU	0.60343	6,961.97	1.191	0.59534	0.60585	0.60910
FE	29.54472	3,219.37	0.050	29.55152	29.52785	29.55480
K	29.44714	3,142.09	0.184	29.48812	29.46755	29.38574
LI	0.60846	1,491.64	0.646	0.60449	0.61234	0.60856
MG	29.38774	17,235.95	0.042	29.38804	29.37525	29.39993
MN	0.59585	30,841.08	0.898	0.59011	0.59671	0.60071
MO	0.59937	1,843.59	0.268	0.59844	0.59843	0.60122
NA	29.39832	12,426.65	0.219	29.33968	29.38828	29.46699
NI	0.60120	1,602.16	0.339	0.59958	0.60053	0.60348
P	0.61279	287.07	0.348	0.61130	0.61184	0.61523
PB	0.60135	581.21	0.112	0.60133	0.60203	0.60068
S	0.60922	154.01	0.312	0.60709	0.60983	0.61074
SB	0.60596	344.34	0.677	0.60230	0.60519	0.61040
SE	0.60324	214.94	0.499	0.60047	0.60280	0.60644
SI	-0.00363	0.75	538.422	-0.02118	0.01742	-0.00712
SN	0.59261	617.04	0.125	0.59213	0.59346	0.59224
SR	0.61116	406,093.94	0.423	0.60852	0.61129	0.61368
TI	0.59550	31,778.56	0.937	0.58979	0.59577	0.60094
TL	0.60599	310.53	0.242	0.60693	0.60430	0.60675
V	0.59609	9,464.64	1.029	0.58992	0.59615	0.60219
Y1	13325.93085	13,325.93	0.369	13372.01440	13331.71509	13274.06306
Y2A	336410.03976	336,410.04	0.711	338242.04771	337285.28827	333702.78330
Y2R	9591.18843	9,591.19	0.094	9584.19030	9588.07500	9601.30000
ZN	0.58336	4,604.37	0.267	0.58188	0.58321	0.58498
ZR	0.65973	540.74	0.461	0.66130	0.65623	0.66167

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LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 6

Date/Time: 07/19/2012 19:32

Sample Number: **ICB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00028	-41.62	161.194	0.00033	-0.00019	0.00070
AL	-0.01707	1.63	258.718	-0.05541	-0.02702	0.03122
AS	0.00172	-0.74	114.061	-0.00004	0.00383	0.00136
B	0.00022	22.37	131.430	0.00002	0.00056	0.00009
BA	0.00005	105.08	11.393	0.00005	0.00004	0.00004
BE	-0.00001	-219.53	318.410	-0.00001	0.00002	-0.00004
CA	-0.01271	34.54	24.400	-0.01629	-0.01110	-0.01074
CD	0.00000	-11.18	2824.403	0.00036	0.00006	-0.00043
CO	0.00031	0.04	49.339	0.00037	0.00042	0.00013
CR	-0.00046	8.38	59.368	-0.00018	-0.00047	-0.00072
CU	-0.00037	26.28	119.140	-0.00085	0.00001	-0.00027
FE	0.00323	2.88	200.993	-0.00252	0.00194	0.01028
K	0.01689	2.73	421.164	-0.04431	0.00006	0.09492
LI	-0.00669	15.01	40.180	-0.00589	-0.00449	-0.00968
MG	-0.00559	5.25	67.696	-0.00372	-0.00310	-0.00995
MN	0.00006	15.40	153.532	0.00014	0.00010	-0.00005
MO	0.00088	4.75	57.249	0.00137	0.00089	0.00037
NA	0.00194	50.50	284.762	0.00825	-0.00198	-0.00046
NI	-0.00006	8.52	398.054	-0.00003	-0.00030	0.00016
P	0.00024	0.68	435.364	0.00019	0.00129	-0.00077
PB	0.00221	-1.97	56.980	0.00206	0.00354	0.00103
S	-0.00178	10.91	37.124	-0.00171	-0.00247	-0.00115
SB	0.00020	-0.20	190.924	0.00007	0.00064	-0.00010
SE	0.00118	-0.01	107.632	0.00045	0.00265	0.00045
SI	-0.01120	0.31	65.713	-0.01597	-0.00272	-0.01492
SN	0.00006	0.07	109.208	0.00014	0.00001	0.00004
SR	0.00003	56.04	24.169	0.00003	0.00003	0.00004
TI	-0.00002	12.77	467.051	-0.00011	0.00004	0.00002
TL	0.00105	3.16	101.388	0.00227	0.00050	0.00037
V	-0.00006	1.62	328.772	-0.00025	-0.00003	0.00012
Y1	13511.94494	13,511.94	0.203	13542.01746	13488.15560	13505.66176
Y2A	338896.95162	338,896.95	0.239	339125.00000	339569.33400	337996.52087
Y2R	9510.91819	9,510.92	0.266	9490.67239	9539.24013	9502.84204
ZN	0.00038	10.91	48.691	0.00040	0.00019	0.00056
ZR	0.00223	2.91	90.262	0.00388	-0.00001	0.00282

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LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 7

Date/Time: 07/19/2012 19:36

Sample Number: **LLC**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00579	46.83	8.521	0.00529	0.00580	0.00627
AL	0.22687	12.38	21.994	0.27680	0.17700	0.22680
AS	0.01986	6.92	11.963	0.02223	0.01748	0.01988
B	0.04827	459.68	2.061	0.04939	0.04749	0.04793
BA	0.00506	2,732.37	1.521	0.00511	0.00497	0.00509
BE	0.00499	2,255.20	0.978	0.00505	0.00495	0.00498
CA	0.18472	109.50	2.880	0.18576	0.18944	0.17896
CD	0.00494	10.38	5.726	0.00525	0.00471	0.00485
CO	0.00534	24.91	3.817	0.00556	0.00517	0.00528
CR	0.01481	167.63	1.279	0.01502	0.01466	0.01474
CU	0.00989	144.77	16.185	0.01088	0.00804	0.01074
FE	0.20591	25.05	4.021	0.20285	0.21528	0.19959
K	0.46716	50.58	5.969	0.44035	0.49601	0.46511
LI	0.01869	75.68	17.315	0.02198	0.01858	0.01551
MG	0.08867	60.85	1.027	0.08777	0.08959	0.08867
MN	0.00526	286.03	0.455	0.00523	0.00526	0.00528
MO	0.00985	32.92	0.789	0.00994	0.00980	0.00982
NA	0.99205	465.96	1.733	1.00056	0.97226	1.00332
NI	0.01035	36.75	4.086	0.01056	0.00987	0.01063
P	0.10031	48.39	1.657	0.10172	0.09847	0.10073
PB	0.01573	11.37	9.992	0.01525	0.01445	0.01748
S	0.52603	137.26	0.925	0.52119	0.52597	0.53093
SB	0.02089	11.82	1.179	0.02091	0.02113	0.02064
SE	0.01869	6.38	13.646	0.01909	0.01596	0.02101
SI	0.03387	2.90	79.889	0.04607	0.00286	0.05267
SN	0.02083	22.14	4.611	0.02075	0.02182	0.01991
SR	0.00511	3,452.31	0.793	0.00516	0.00508	0.00510
TI	0.00993	547.20	0.988	0.00988	0.01004	0.00987
TL	0.03142	18.83	3.423	0.03137	0.03037	0.03252
V	0.00512	84.17	7.444	0.00548	0.00515	0.00472
Y1	13598.77064	13,598.77	0.112	13594.76263	13615.61713	13585.93215
Y2A	338784.07334	338,784.07	0.556	336637.67396	340155.40093	339559.14513
Y2R	9554.29948	9,554.30	0.096	9544.51816	9555.78038	9562.59992
ZN	0.01940	162.59	0.847	0.01936	0.01927	0.01959
ZR	0.05318	44.44	15.516	0.06078	0.05437	0.04440

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LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 8

Date/Time: 07/19/2012 19:40

Sample Number: **ICSA**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00138	-339.70	13.142	-0.00121	-0.00157	-0.00137
AL	495.43913	21,065.76	0.543	492.33308	496.92320	497.06111
AS	0.00763	-1.60	24.931	0.00891	0.00545	0.00854
B	0.01381	928.77	5.302	0.01460	0.01368	0.01315
BA	0.00045	287.57	9.958	0.00049	0.00040	0.00044
BE	-0.00032	-340.22	4.702	-0.00033	-0.00032	-0.00030
CA	497.86637	174,114.38	0.507	494.95409	499.17492	499.47010
CD	0.00060	11.65	56.893	0.00085	0.00021	0.00073
CO	0.00203	7.61	17.660	0.00211	0.00163	0.00233
CR	0.00314	42.03	48.652	0.00244	0.00489	0.00209
CU	-0.00461	132.47	12.043	-0.00424	-0.00524	-0.00434
FE	197.56616	19,614.92	0.411	196.63538	197.94110	198.12201
K	0.07884	8.93	65.393	0.02501	0.12777	0.08375
LI	-0.00726	41.72	34.672	-0.00511	-0.00665	-0.01003
MG	471.77837	226,017.15	0.816	467.46627	472.99895	474.86989
MN	0.00359	182.13	1.259	0.00354	0.00359	0.00363
MO	-0.00045	0.55	139.937	0.00018	-0.00046	-0.00108
NA	0.06501	74.09	24.245	0.05252	0.08272	0.05979
NI	0.00131	3.62	78.057	0.00092	0.00247	0.00054
P	0.01856	8.45	3.531	0.01780	0.01889	0.01898
PB	0.00643	83.25	44.376	0.00316	0.00843	0.00771
S	0.01424	13.29	39.271	0.00796	0.01869	0.01607
SB	0.00316	1.36	38.997	0.00228	0.00457	0.00263
SE	0.00293	-2.02	74.774	0.00327	0.00493	0.00059
SI	0.00186	1.02	849.717	0.01223	-0.01630	0.00964
SN	0.00012	0.13	1453.510	-0.00021	0.00207	-0.00148
SR	0.00264	1,649.50	0.510	0.00263	0.00265	0.00266
TI	-0.00134	-53.23	14.240	-0.00119	-0.00155	-0.00127
TL	0.01142	7.65	13.649	0.01014	0.01097	0.01316
V	0.00004	40.63	1566.384	-0.00050	0.00083	-0.00019
Y1	12195.05550	12,195.06	0.076	12201.12732	12199.68960	12184.34956
Y2A	310149.24795	310,149.25	0.128	310375.16589	310382.21632	309690.36165
Y2R	9173.31945	9,173.32	0.812	9257.54933	9146.42500	9115.98402
ZN	-0.00959	163.81	3.321	-0.00924	-0.00967	-0.00987
ZR	0.00559	5.41	104.764	-0.00117	0.00902	0.00892

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LANCASTER LABORATORIES

Run Name: 1220106T71

Tube: 9

Sample Number: **ICSAB**

Instrument ID: 16315

Date/Time: 07/19/2012 19:44

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.21580	2,698.25	0.401	0.21488	0.21660	0.21592
____ AL	495.28571	20,891.11	0.386	497.09274	493.28331	495.48108
____ AS	0.10372	34.94	4.789	0.10901	0.10300	0.09915
____ B	0.01386	915.66	6.292	0.01294	0.01395	0.01468
____ BA	0.53691	255,522.65	0.373	0.53480	0.53714	0.53878
____ BE	0.49729	223,086.81	0.208	0.49615	0.49817	0.49755
____ CA	495.59046	171,956.54	0.411	497.16378	493.28947	496.31814
____ CD	0.94553	3,723.01	0.271	0.94788	0.94279	0.94591
____ CO	0.48447	2,142.37	0.127	0.48425	0.48517	0.48399
____ CR	0.48148	4,569.37	0.259	0.48040	0.48285	0.48120
____ CU	0.53579	5,821.02	0.308	0.53424	0.53752	0.53562
____ FE	197.28367	19,430.92	0.358	197.96600	196.55428	197.33072
____ K	0.08894	9.92	52.272	0.05852	0.14246	0.06585
____ LI	-0.00609	43.90	25.703	-0.00583	-0.00467	-0.00777
____ MG	471.47483	224,084.68	0.491	473.26059	468.86024	472.30366
____ MN	0.48549	22,966.22	0.256	0.48410	0.48651	0.48585
____ MO	-0.00106	-1.16	68.173	-0.00066	-0.00063	-0.00189
____ NA	0.06755	74.51	13.241	0.06502	0.06015	0.07749
____ NI	0.94491	2,296.09	0.129	0.94630	0.94404	0.94438
____ P	0.01738	8.38	5.261	0.01656	0.01836	0.01722
____ PB	0.05120	123.11	2.790	0.05170	0.04959	0.05231
____ S	0.00999	12.39	90.385	0.00354	0.00612	0.02030
____ SB	0.60521	315.51	0.772	0.61009	0.60477	0.60078
____ SE	0.04677	12.39	5.295	0.04394	0.04855	0.04781
____ SI	-0.00378	0.70	95.595	-0.00197	-0.00795	-0.00144
____ SN	0.00088	0.85	193.813	0.00074	-0.00075	0.00264
____ SR	0.00264	1,635.59	0.471	0.00263	0.00266	0.00264
____ TI	-0.00098	-28.61	12.108	-0.00101	-0.00107	-0.00084
____ TL	0.09965	50.19	2.672	0.09825	0.10272	0.09798
____ V	0.50762	7,412.85	0.452	0.50504	0.50841	0.50942
____ Y1	12209.52152	12,209.52	0.182	12200.84500	12192.90284	12234.81674
____ Y2A	307419.29330	307,419.29	0.121	307804.24685	307392.91639	307060.71666
____ Y2R	9099.44119	9,099.44	0.594	9072.87500	9161.60180	9063.84677
____ ZN	0.96537	7,141.57	0.150	0.96676	0.96548	0.96388
____ ZR	0.01197	10.33	54.852	0.00807	0.00828	0.01955

ASX73 2198

LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 10

Date/Time: 07/19/2012 19:48

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.50507	7,641.94	0.860	0.50028	0.50617	0.50876
___ AL	24.56107	1,091.60	0.868	24.60400	24.32976	24.74946
___ AS	0.50034	206.39	0.813	0.49853	0.50500	0.49749
___ B	0.49083	4,527.15	0.861	0.48595	0.49326	0.49328
___ BA	0.51522	266,917.24	0.910	0.51034	0.51564	0.51968
___ BE	0.49826	243,316.89	0.902	0.49355	0.49874	0.50250
___ CA	24.92324	9,526.87	0.634	24.88309	24.78928	25.09736
___ CD	0.50411	2,177.01	0.502	0.50639	0.50455	0.50138
___ CO	0.49733	2,432.25	0.120	0.49800	0.49713	0.49686
___ CR	0.49575	5,121.05	0.935	0.49110	0.49578	0.50038
___ CU	0.51013	5,859.54	1.065	0.50434	0.51091	0.51512
___ FE	24.62155	2,694.24	0.381	24.56129	24.57376	24.72959
___ K	24.27163	2,596.95	0.803	24.27212	24.07660	24.46619
___ LI	0.49947	1,233.35	0.928	0.50285	0.49418	0.50137
___ MG	24.63015	14,508.50	0.491	24.61635	24.51666	24.75744
___ MN	0.50196	25,848.34	0.689	0.49815	0.50284	0.50490
___ MO	0.49540	1,541.40	0.200	0.49556	0.49630	0.49433
___ NA	24.41384	10,356.02	0.372	24.39519	24.33376	24.51256
___ NI	0.49959	1,347.92	0.088	0.49986	0.49908	0.49982
___ P	0.50770	240.63	0.568	0.51086	0.50703	0.50521
___ PB	0.49833	488.88	0.339	0.49994	0.49849	0.49658
___ S	0.50102	130.10	1.146	0.49440	0.50404	0.50463
___ SB	0.50203	288.47	0.321	0.50039	0.50361	0.50209
___ SE	0.49888	179.70	0.213	0.49777	0.49988	0.49901
___ SI	24.63595	1,421.89	0.774	24.68715	24.42482	24.79589
___ SN	0.49458	520.81	0.183	0.49359	0.49535	0.49481
___ SR	0.50861	336,187.71	0.827	0.50397	0.50967	0.51219
___ TI	0.50228	26,666.42	0.724	0.49830	0.50310	0.50544
___ TL	0.50402	261.65	0.390	0.50625	0.50252	0.50330
___ V	0.50216	7,932.47	0.850	0.49820	0.50160	0.50668
___ Y1	13476.86102	13,476.86	0.179	13449.22708	13488.23278	13493.12321
___ Y2A	334654.45403	334,654.45	0.632	336683.89662	334818.55910	332460.90637
___ Y2R	9617.18981	9,617.19	0.700	9638.82788	9671.02500	9541.71657
___ ZN	0.48427	3,867.14	0.129	0.48499	0.48392	0.48391
___ ZR	0.57996	476.78	0.597	0.58273	0.57608	0.58108

ASX73 2199

LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 11

Date/Time: 07/19/2012 19:52

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00100	-30.67	57.790	0.00077	0.00166	0.00058
AL	0.00717	2.73	521.848	0.04522	0.00586	-0.02957
AS	0.00117	-0.98	91.937	0.00041	0.00241	0.00070
B	0.00008	21.20	78.155	0.00013	0.00012	0.00001
BA	0.00004	103.00	41.987	0.00002	0.00006	0.00005
BE	-0.00002	-227.62	63.164	-0.00003	-0.00003	-0.00001
CA	-0.00413	38.40	156.661	0.00302	-0.00583	-0.00958
CD	0.00005	-11.08	248.533	-0.00008	0.00014	0.00007
CO	-0.00005	-1.72	467.796	0.00016	-0.00029	-0.00002
CR	-0.00032	9.83	71.353	-0.00038	-0.00007	-0.00051
CU	0.00105	42.82	100.197	0.00055	0.00225	0.00034
FE	0.00932	3.60	48.521	0.01454	0.00681	0.00661
K	-0.05089	-4.53	32.769	-0.04161	-0.07015	-0.04092
LI	-0.00225	25.98	4.069	-0.00216	-0.00234	-0.00225
MG	0.00898	14.03	49.910	0.01311	0.00962	0.00421
MN	0.00001	12.42	1253.317	-0.00008	-0.00001	0.00011
MO	-0.00002	1.97	375.243	0.00006	-0.00002	-0.00011
NA	0.00874	54.21	125.101	0.01845	-0.00311	0.01090
NI	-0.00001	8.75	3485.047	0.00048	0.00044	-0.00094
P	0.00035	0.74	231.020	-0.00058	0.00076	0.00086
PB	-0.00121	-5.36	47.743	-0.00181	-0.00066	-0.00115
S	-0.00891	9.31	57.824	-0.00432	-0.01448	-0.00793
SB	0.00062	0.04	528.336	-0.00298	0.00339	0.00144
SE	0.00030	-0.33	616.157	0.00236	-0.00122	-0.00024
SI	-0.01704	-0.02	136.432	-0.04356	-0.00744	-0.00013
SN	-0.00062	-0.65	136.932	-0.00152	-0.00050	0.00016
SR	0.00003	49.74	56.892	0.00001	0.00004	0.00002
TI	0.00000	13.93	3179.572	0.00000	0.00013	-0.00012
TL	0.00079	3.06	52.741	0.00121	0.00079	0.00038
V	-0.00016	0.05	164.083	-0.00041	-0.00017	0.00011
Y1	13651.51291	13,651.51	0.203	13683.47693	13635.19563	13635.86616
Y2A	339754.69406	339,754.69	0.480	341627.40225	338656.22929	338980.45063
Y2R	9669.57500	9,669.58	0.636	9607.50700	9730.50459	9670.71343
ZN	0.00039	11.07	28.155	0.00031	0.00034	0.00051
ZR	0.00110	2.04	329.988	-0.00118	0.00531	-0.00082

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LANCASTER LABORATORIES

Run Name: 1220106T71 | Instrument ID: 16315

Tube: 12 | Date/Time: 07/19/2012 19:56

Sample Number: **PBW** | Class: **** | Batch: 122001848003

Initial Vol: 50.00 | Final Vol: 50.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00061	-37.18	62.704	0.00082	0.00017	0.00085
AL	0.01805	3.33	116.975	0.00299	0.00897	0.04218
AS	0.00111	-1.01	155.268	-0.00084	0.00175	0.00242
B	0.00245	43.30	10.610	0.00220	0.00243	0.00272
BA	0.00000	80.22	1101.675	0.00004	-0.00002	-0.00003
BE	-0.00005	-244.80	21.667	-0.00005	-0.00006	-0.00004
CA	0.03000	53.28	29.220	0.03899	0.02147	0.02955
CD	-0.00002	-11.44	1469.035	0.00018	-0.00036	0.00012
CO	0.00028	-0.09	29.583	0.00038	0.00022	0.00025
CR	-0.00006	12.77	639.126	0.00000	-0.00045	0.00028
CU	0.00029	34.57	208.390	0.00078	-0.00039	0.00048
FE	-0.00315	2.30	302.019	0.00635	-0.01266	-0.00313
K	-0.01318	-0.48	107.880	-0.02943	-0.00707	-0.00304
LI	-0.00287	25.33	70.127	-0.00101	-0.00501	-0.00260
MG	0.01480	18.11	33.275	0.01712	0.01815	0.00915
MN	0.00007	15.72	146.388	0.00009	-0.00004	0.00015
MO	-0.00015	1.58	111.892	-0.00034	-0.00005	-0.00005
NA	-0.00006	52.24	3574.040	0.01137	-0.00987	-0.00169
NI	-0.00022	8.22	227.831	-0.00007	-0.00076	0.00019
P	0.00030	0.73	235.719	0.00073	0.00070	-0.00052
PB	-0.00135	-5.53	268.883	-0.00264	0.00276	-0.00417
S	-0.00612	10.05	33.811	-0.00744	-0.00718	-0.00373
SB	-0.00171	-1.32	157.642	-0.00218	0.00119	-0.00413
SE	-0.00024	-0.53	709.221	-0.00025	0.00147	-0.00195
SI	-0.00493	0.71	162.456	0.00422	-0.01064	-0.00835
SN	-0.00005	-0.04	947.562	-0.00040	-0.00020	0.00046
SR	0.00020	172.92	6.226	0.00019	0.00021	0.00022
TI	-0.00016	5.00	30.678	-0.00021	-0.00018	-0.00011
TL	0.00175	3.58	34.426	0.00236	0.00176	0.00115
V	-0.00006	1.60	391.016	-0.00015	-0.00025	0.00021
Y1	13736.44949	13,736.45	0.145	13727.81543	13759.18283	13722.35020
Y2A	344619.69848	344,619.70	0.352	345206.34526	345427.68390	343225.06627
Y2R	10002.34650	10,002.35	0.399	10034.29270	9957.65887	10015.08793
ZN	0.00014	9.15	109.656	0.00018	0.00028	-0.00003
ZR	0.00089	1.92	395.905	-0.00317	0.00264	0.00320

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LANCASTER LABORATORIES

Run Name: 1220106T71 | Instrument ID: 16315

Tube: 13 | Date/Time: 07/19/2012 20:00

Sample Number: **LCSW** | Class: **** | Batch: 122001848003

Initial Vol: 1.00 | Final Vol: 1.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05157	840.85	0.873	0.05209	0.05135	0.05127
AL	2.00208	95.84	3.643	1.96736	1.95300	2.08588
AS	0.15515	65.31	1.574	0.15404	0.15345	0.15795
B	1.97425	18,165.28	0.437	1.98397	1.96745	1.97134
BA	2.06256	1,094,101.39	0.338	2.07021	2.06086	2.05659
BE	0.05114	25,408.41	0.246	0.05128	0.05107	0.05106
CA	4.12102	1,647.45	0.165	4.12462	4.11316	4.12529
CD	0.05087	211.94	0.673	0.05097	0.05115	0.05049
CO	0.51704	2,562.97	0.102	0.51754	0.51649	0.51708
CR	0.20197	2,144.58	0.118	0.20183	0.20183	0.20224
CU	0.26554	3,078.98	0.727	0.26727	0.26590	0.26346
FE	1.02167	117.57	0.446	1.01689	1.02214	1.02597
K	9.85251	1,078.59	0.416	9.83638	9.82209	9.89906
LI	1.02225	2,545.01	0.421	1.02039	1.01918	1.02718
MG	2.04429	1,248.65	0.161	2.04722	2.04072	2.04494
MN	0.50950	26,869.55	0.292	0.51091	0.50964	0.50795
MO	2.03005	6,383.46	0.043	2.02998	2.02920	2.03095
NA	10.01425	4,374.23	0.317	9.99728	9.99457	10.05089
NI	0.52290	1,429.65	0.225	0.52154	0.52365	0.52350
P	1.01792	487.24	0.310	1.02148	1.01682	1.01547
PB	0.15279	146.29	0.974	0.15395	0.15111	0.15331
S	1.02367	256.97	0.431	1.02621	1.01858	1.02623
SB	0.51244	296.81	0.304	0.51110	0.51206	0.51415
SE	0.15248	55.41	0.617	0.15156	0.15245	0.15344
SI	1.06154	63.59	0.442	1.06015	1.06676	1.05769
SN	4.02300	4,285.45	0.045	4.02095	4.02362	4.02444
SR	1.03201	698,587.30	0.457	1.03711	1.03109	1.02781
TI	1.01819	55,335.16	0.413	1.02268	1.01752	1.01436
TL	0.15513	84.26	0.748	0.15486	0.15413	0.15640
V	0.51134	8,207.64	0.059	0.51158	0.51101	0.51144
Y1	13633.42506	13,633.43	0.234	13669.30338	13608.20301	13622.76878
Y2A	342724.95582	342,724.96	0.221	342594.76474	342042.66070	343537.44201
Y2R	9834.46409	9,834.46	0.351	9862.83892	9844.49153	9796.06181
ZN	0.49994	4,005.93	0.029	0.49990	0.49982	0.50010
ZR	1.10603	928.75	0.556	1.10037	1.10513	1.11257

ASX73 2202

LANCASTER LABORATORIES

Run Name: 1220106T71 | Instrument ID: 16315

Tube: 14 | Date/Time: 07/19/2012 20:04

Sample Number: **LCSWD** | Class: **** | Batch: 122001848003

Initial Vol: 1.00 | Final Vol: 1.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05179	843.46	1.850	0.05190	0.05078	0.05269
AL	2.07940	100.82	3.328	2.00405	2.09400	2.14014
AS	0.15272	64.12	2.377	0.14938	0.15219	0.15658
B	1.96631	18,053.27	0.372	1.96303	1.97470	1.96121
BA	2.03607	1,077,732.21	0.413	2.02988	2.04565	2.03267
BE	0.05082	25,194.44	0.384	0.05082	0.05102	0.05063
CA	4.05432	1,645.77	0.655	4.02582	4.05880	4.07834
CD	0.05169	215.00	0.441	0.05175	0.05188	0.05144
CO	0.51516	2,547.20	0.033	0.51509	0.51504	0.51535
CR	0.20036	2,123.06	0.417	0.19941	0.20099	0.20068
CU	0.26309	3,043.98	0.252	0.26232	0.26344	0.26351
FE	0.99924	116.78	1.090	0.98957	0.99713	1.01104
K	9.76168	1,084.70	0.223	9.74176	9.75837	9.78490
LI	1.00341	2,536.16	0.506	0.99868	1.00878	1.00276
MG	2.00989	1,246.19	0.718	1.99428	2.02275	2.01263
MN	0.50866	26,767.58	0.312	0.50827	0.51041	0.50730
MO	2.02463	6,350.39	0.144	2.02685	2.02133	2.02571
NA	9.87759	4,379.93	0.804	9.78612	9.91782	9.92883
NI	0.52016	1,418.64	0.351	0.52082	0.51810	0.52157
P	1.01524	484.73	0.296	1.01763	1.01186	1.01622
PB	0.15338	146.51	1.162	0.15133	0.15449	0.15434
S	1.01452	254.13	0.646	1.00769	1.01512	1.02076
SB	0.51116	295.32	0.363	0.51325	0.51052	0.50971
SE	0.15005	54.38	0.325	0.15062	0.14979	0.14976
SI	1.05917	64.41	2.476	1.03570	1.05433	1.08748
SN	4.01584	4,267.05	0.040	4.01731	4.01414	4.01609
SR	1.02363	691,426.43	0.738	1.03212	1.01768	1.02107
TI	1.01101	54,827.16	0.261	1.00943	1.01405	1.00955
TL	0.15503	83.99	1.414	0.15666	0.15254	0.15590
V	0.50695	8,119.10	0.521	0.50694	0.50960	0.50431
Y1	13599.09001	13,599.09	0.160	13577.03151	13620.61184	13599.62669
Y2A	341988.81710	341,988.82	0.227	341620.69251	341463.46918	342882.28960
Y2R	9982.05815	9,982.06	0.682	10035.64658	9905.42024	10005.10763
ZN	0.49832	3,982.86	0.196	0.49837	0.49732	0.49927
ZR	1.11809	952.96	0.209	1.11547	1.11997	1.11882

ASX73 2203

LANCASTER LABORATORIES

Run Name: 1220106T71 | Instrument ID: 16315

Tube: 15 | Date/Time: 07/19/2012 20:08

Sample Number: **6721504** | Class: **** | Batch: 122001848003

Initial Vol: 50.00 | Final Vol: 50.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.00058	-37.47	107.877	0.00114	-0.00010	0.00070
____ AL	0.03862	4.24	91.524	0.00769	0.03102	0.07715
____ AS	0.00166	-0.78	77.060	0.00034	0.00288	0.00175
____ B	0.00446	61.47	13.066	0.00467	0.00491	0.00380
____ BA	0.00016	168.85	24.515	0.00015	0.00021	0.00013
____ BE	-0.00007	-254.53	10.198	-0.00008	-0.00007	-0.00007
____ CA	0.00924	44.68	79.284	0.00670	0.00353	0.01750
____ CD	-0.00031	-12.78	86.525	-0.00059	-0.00025	-0.00007
____ CO	0.00026	-0.19	36.328	0.00015	0.00030	0.00033
____ CR	-0.00028	10.35	128.337	-0.00066	0.00005	-0.00023
____ CU	0.02497	323.60	0.640	0.02505	0.02479	0.02508
____ FE	0.00184	2.84	642.528	0.01007	-0.01174	0.00721
____ K	0.05084	6.57	168.029	-0.04354	0.12289	0.07318
____ LI	-0.00242	26.26	146.882	0.00064	-0.00631	-0.00158
____ MG	-0.00560	5.47	33.064	-0.00707	-0.00352	-0.00621
____ MN	0.00037	31.38	26.637	0.00026	0.00039	0.00044
____ MO	0.00205	8.60	18.145	0.00234	0.00219	0.00163
____ NA	0.00947	55.99	87.520	0.01865	0.00252	0.00725
____ NI	0.00053	10.32	65.020	0.00032	0.00034	0.00092
____ P	-0.00001	0.58	5455.671	0.00057	-0.00082	0.00022
____ PB	-0.00026	-4.46	821.407	0.00035	0.00148	-0.00260
____ S	-0.00835	9.56	44.553	-0.00670	-0.01260	-0.00573
____ SB	0.00096	0.24	281.777	-0.00191	0.00346	0.00133
____ SE	0.00289	0.63	107.942	0.00649	0.00091	0.00127
____ SI	-0.00555	0.66	487.814	0.02491	-0.02691	-0.01465
____ SN	0.00012	0.13	204.389	-0.00015	0.00030	0.00020
____ SR	0.00020	165.06	4.837	0.00018	0.00020	0.00020
____ TI	0.00005	16.78	209.158	0.00014	0.00011	-0.00008
____ TL	0.00086	3.13	144.304	-0.00056	0.00141	0.00173
____ V	0.00019	5.48	149.436	0.00022	0.00045	-0.00011
____ Y1	13818.97802	13,818.98	0.306	13842.07609	13844.60534	13770.25262
____ Y2A	342345.51027	342,345.51	0.625	341623.50895	340659.12856	344753.89331
____ Y2R	9924.26247	9,924.26	0.364	9961.99122	9920.71343	9890.08277
____ ZN	0.00011	9.15	89.825	0.00023	0.00008	0.00003
____ ZR	-0.00006	1.10	646.733	-0.00007	-0.00048	0.00035

ASX73 2284

LANCASTER LABORATORIES

Run Name: 1220106T71

Tube: 16

Sample Number: **LLC**

Instrument ID: 16315

Date/Time: 07/19/2012 20:12

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.00509	35.83	11.613	0.00486	0.00576	0.00465
___ AL	0.15853	9.84	2.788	0.16070	0.16144	0.15344
___ AS	0.02189	7.88	4.727	0.02275	0.02219	0.02074
___ B	0.04916	476.92	1.347	0.04990	0.04899	0.04861
___ BA	0.00514	2,828.02	0.440	0.00516	0.00512	0.00513
___ BE	0.00496	2,282.13	0.544	0.00498	0.00497	0.00493
___ CA	0.18184	113.73	4.015	0.18903	0.17444	0.18206
___ CD	0.00547	12.87	0.992	0.00550	0.00541	0.00550
___ CO	0.00515	24.29	3.278	0.00507	0.00503	0.00534
___ CR	0.01466	169.28	2.294	0.01450	0.01504	0.01443
___ CU	0.00940	141.87	9.050	0.00856	0.00937	0.01026
___ FE	0.18635	24.03	5.618	0.18837	0.17502	0.19567
___ K	0.50613	57.41	5.088	0.48654	0.49656	0.53530
___ LI	0.01938	81.12	18.618	0.01954	0.01570	0.02291
___ MG	0.09746	69.28	4.217	0.09307	0.10122	0.09809
___ MN	0.00518	287.37	1.896	0.00507	0.00526	0.00521
___ MO	0.01011	34.16	1.532	0.01025	0.01014	0.00994
___ NA	0.95612	473.01	1.208	0.96944	0.94894	0.94997
___ NI	0.01025	36.92	3.842	0.01064	0.00985	0.01025
___ P	0.10240	50.01	1.688	0.10386	0.10049	0.10283
___ PB	0.01530	11.08	17.296	0.01359	0.01397	0.01835
___ S	0.52841	139.57	1.285	0.52597	0.52318	0.53608
___ SB	0.01981	11.32	9.855	0.02206	0.01858	0.01879
___ SE	0.02091	7.28	11.967	0.01952	0.02380	0.01941
___ SI	0.04935	3.97	15.319	0.04264	0.04786	0.05754
___ SN	0.02011	21.64	2.511	0.01963	0.02064	0.02005
___ SR	0.00510	3,509.76	0.770	0.00514	0.00506	0.00508
___ TI	0.01009	566.45	0.840	0.01016	0.01000	0.01010
___ TL	0.03215	19.45	4.291	0.03214	0.03353	0.03077
___ V	0.00466	78.32	6.527	0.00444	0.00500	0.00452
___ Y1	13770.62279	13,770.62	0.249	13759.95070	13808.96157	13742.95610
___ Y2A	345409.01811	345,409.02	0.235	344869.44997	346341.78264	345015.82174
___ Y2R	10022.99987	10,023.00	0.174	10012.61971	10043.11551	10013.26439
___ ZN	0.01951	165.47	0.639	0.01939	0.01950	0.01964
___ ZR	0.04086	36.09	3.959	0.03965	0.04023	0.04269

ASX73 2295

LANCASTER LABORATORIES

Run Name: 1220106T71

Tube: 17

Sample Number: **ICSA**

Instrument ID: 16315

Date/Time: 07/19/2012 20:16

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	-0.00099	-335.60	101.787	-0.00139	-0.00174	0.00016
____ AL	495.87863	21,757.18	0.280	494.97944	497.48056	495.17588
____ AS	0.00960	-0.90	68.905	0.00374	0.01678	0.00829
____ B	0.01447	938.43	13.151	0.01661	0.01380	0.01299
____ BA	0.00047	303.17	5.855	0.00044	0.00050	0.00048
____ BE	-0.00032	-346.88	3.072	-0.00034	-0.00032	-0.00032
____ CA	496.39355	179,157.76	0.314	494.83986	497.95884	496.38196
____ CD	0.00120	14.01	21.510	0.00147	0.00119	0.00095
____ CO	0.00193	7.24	25.627	0.00212	0.00137	0.00231
____ CR	0.00346	45.40	15.122	0.00306	0.00326	0.00405
____ CU	-0.00529	125.73	5.271	-0.00552	-0.00536	-0.00498
____ FE	196.89193	20,175.36	0.354	196.45053	197.69466	196.53061
____ K	0.03029	4.11	120.645	-0.01123	0.04452	0.05758
____ LI	-0.00788	41.44	34.553	-0.01102	-0.00610	-0.00653
____ MG	463.35462	229,807.38	0.894	461.34491	460.60087	468.11807
____ MN	0.00377	192.15	3.240	0.00364	0.00377	0.00389
____ MO	-0.00068	-0.10	85.156	-0.00067	-0.00127	-0.00011
____ NA	0.05515	72.38	10.712	0.06169	0.05020	0.05355
____ NI	0.00169	4.60	40.173	0.00228	0.00095	0.00185
____ P	0.01945	8.86	3.269	0.01977	0.01985	0.01871
____ PB	0.00364	81.19	59.890	0.00125	0.00414	0.00553
____ S	0.01309	13.10	27.543	0.01111	0.01091	0.01725
____ SB	0.00574	2.72	30.569	0.00751	0.00400	0.00573
____ SE	-0.00025	-3.06	2003.796	0.00064	0.00420	-0.00558
____ SI	0.00920	1.46	205.988	-0.00705	0.03001	0.00463
____ SN	0.00130	1.25	64.442	0.00055	0.00221	0.00114
____ SR	0.00268	1,682.37	2.273	0.00275	0.00263	0.00265
____ TI	-0.00126	-49.58	15.268	-0.00130	-0.00143	-0.00105
____ TL	0.00850	6.32	40.615	0.00859	0.01191	0.00501
____ V	0.00009	41.48	385.101	-0.00009	0.00048	-0.00013
____ Y1	12247.80528	12,247.81	0.169	12270.54834	12229.93539	12242.93213
____ Y2A	312474.86729	312,474.87	0.920	309214.66490	314642.99934	313566.93762
____ Y2R	9465.75238	9,465.75	0.578	9527.73336	9424.29542	9445.22836
____ ZN	-0.00923	166.35	1.129	-0.00918	-0.00916	-0.00935
____ ZR	0.00666	6.48	62.328	0.00842	0.00964	0.00192

ASX73 2206

LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 18

Date/Time: 07/19/2012 20:20

Sample Number: **ICSAB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.21736	2,842.57	0.264	0.21796	0.21681	0.21731
AL	495.27314	22,442.32	0.408	492.93972	496.36408	496.51564
AS	0.10994	38.38	1.261	0.10970	0.11143	0.10869
B	0.01295	944.75	9.146	0.01432	0.01230	0.01224
BA	0.53986	268,391.15	0.689	0.54398	0.53674	0.53884
BE	0.49347	231,250.73	0.678	0.49725	0.49088	0.49228
CA	494.49640	184,338.88	0.245	493.20292	494.68390	495.60239
CD	0.94010	3,813.59	0.160	0.94111	0.94082	0.93836
CO	0.48522	2,210.61	0.190	0.48626	0.48448	0.48492
CR	0.47558	4,714.97	0.776	0.47983	0.47374	0.47318
CU	0.54420	6,172.85	0.860	0.54879	0.53943	0.54438
FE	196.33086	20,779.21	0.436	195.35429	196.94939	196.68891
K	0.04380	5.75	144.873	0.05156	0.10301	-0.02318
LI	-0.00460	50.75	56.180	-0.00382	-0.00250	-0.00748
MG	452.57875	232,744.45	1.844	449.29314	446.37751	462.06558
MN	0.47945	23,693.12	0.559	0.48239	0.47715	0.47881
MO	-0.00074	-0.27	46.924	-0.00061	-0.00113	-0.00047
NA	0.04236	69.22	52.116	0.01866	0.04606	0.06234
NI	0.94914	2,376.19	0.162	0.94872	0.94786	0.95084
P	0.01924	9.46	6.714	0.02039	0.01950	0.01784
PB	0.04933	125.12	4.037	0.04796	0.04841	0.05161
S	0.00655	12.00	13.594	0.00746	0.00569	0.00649
SB	0.61829	332.09	0.418	0.61560	0.61854	0.62075
SE	0.04891	13.50	10.372	0.05473	0.04544	0.04655
SI	0.00004	0.98	5302.232	0.01186	-0.02041	0.00867
SN	0.00037	0.37	477.883	0.00163	-0.00163	0.00110
SR	0.00264	1,702.52	1.288	0.00267	0.00261	0.00263
TI	-0.00109	-35.88	11.474	-0.00100	-0.00123	-0.00105
TL	0.10252	53.07	2.895	0.10523	0.09935	0.10297
V	0.50429	7,693.00	0.612	0.50785	0.50257	0.50245
Y1	12578.96219	12,578.96	0.174	12561.63135	12603.64254	12571.61269
Y2A	321142.30648	321,142.31	0.284	320102.15232	321524.20160	321800.56554
Y2R	9775.31158	9,775.31	0.553	9813.51189	9798.92065	9713.50219
ZN	0.97365	7,417.46	0.217	0.97560	0.97140	0.97394
ZR	0.00801	7.80	29.393	0.00622	0.00713	0.01068

ASX73 2207

LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 19

Date/Time: 07/19/2012 20:24

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.50271	7,902.62	0.735	0.49892	0.50291	0.50630
___ AL	24.48233	1,169.87	0.332	24.55111	24.50333	24.39254
___ AS	0.50354	211.90	0.404	0.50348	0.50561	0.50154
___ B	0.48792	4,676.10	1.093	0.48256	0.48799	0.49322
___ BA	0.50321	270,888.39	0.508	0.50028	0.50495	0.50439
___ BE	0.49088	249,075.89	0.850	0.48695	0.49044	0.49526
___ CA	24.55926	10,094.03	0.038	24.55408	24.56996	24.55374
___ CD	0.49893	2,197.67	0.106	0.49890	0.49948	0.49842
___ CO	0.49640	2,476.16	0.148	0.49715	0.49635	0.49569
___ CR	0.48433	5,198.74	1.063	0.47948	0.48377	0.48973
___ CU	0.50606	6,040.30	0.787	0.50246	0.50538	0.51034
___ FE	24.46205	2,878.02	0.409	24.54699	24.48753	24.35161
___ K	23.98381	2,758.99	0.455	24.08360	23.86740	24.00044
___ LI	0.49665	1,318.70	0.341	0.49857	0.49600	0.49538
___ MG	24.46906	15,497.39	0.151	24.51109	24.45452	24.44156
___ MN	0.49531	26,501.86	0.823	0.49106	0.49566	0.49919
___ MO	0.49653	1,575.83	0.222	0.49759	0.49662	0.49539
___ NA	24.25179	11,060.47	0.272	24.30053	24.27821	24.17662
___ NI	0.49949	1,374.60	0.111	0.49924	0.50012	0.49910
___ P	0.50961	246.36	0.428	0.51203	0.50779	0.50901
___ PB	0.49428	494.61	0.587	0.49347	0.49750	0.49187
___ S	0.50189	132.91	0.243	0.50048	0.50266	0.50252
___ SB	0.50609	296.62	0.591	0.50539	0.50352	0.50937
___ SE	0.50291	184.77	0.570	0.50401	0.49965	0.50505
___ SI	24.59225	1,526.03	0.464	24.49077	24.57033	24.71564
___ SN	0.49169	528.11	0.424	0.48929	0.49296	0.49282
___ SR	0.50803	348,934.32	0.561	0.50719	0.50570	0.51121
___ TI	0.49447	27,277.16	0.816	0.49080	0.49381	0.49879
___ TL	0.50248	266.06	0.249	0.50347	0.50107	0.50289
___ V	0.49606	8,142.04	0.632	0.49315	0.49565	0.49937
___ Y1	13746.38354	13,746.38	0.175	13744.94201	13771.13272	13723.07590
___ Y2A	347733.04617	347,733.05	0.892	350724.23791	347942.84294	344532.05765
___ Y2R	10339.51039	10,339.51	0.091	10329.31827	10347.77080	10341.44212
___ ZN	0.48472	3,947.82	0.051	0.48480	0.48492	0.48444
___ ZR	0.56952	503.38	0.694	0.57401	0.56794	0.56659

ASX73 2288

LANCASTER LABORATORIES

Run Name: 1220106T71

Instrument ID: 16315

Tube: 20

Date/Time: 07/19/2012 20:28

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00087	-33.60	24.856	0.00111	0.00069	0.00082
AL	-0.01364	1.93	229.817	-0.03949	0.02124	-0.02268
AS	-0.00053	-1.73	24.981	-0.00068	-0.00045	-0.00045
B	0.00080	28.50	47.691	0.00090	0.00038	0.00112
BA	0.00005	110.22	54.050	0.00005	0.00008	0.00002
BE	-0.00005	-250.37	8.197	-0.00005	-0.00005	-0.00006
CA	-0.00428	40.90	139.851	-0.01117	-0.00037	-0.00130
CD	0.00013	-10.91	65.469	0.00005	0.00011	0.00022
CO	0.00007	-1.16	596.721	0.00003	-0.00033	0.00051
CR	-0.00041	9.17	69.748	-0.00022	-0.00074	-0.00028
CU	-0.00020	29.25	488.426	-0.00049	0.00088	-0.00098
FE	-0.00247	2.45	134.112	-0.00410	-0.00463	0.00134
K	0.04051	5.65	272.023	0.13904	0.06098	-0.07849
LI	-0.00347	24.57	31.974	-0.00436	-0.00223	-0.00382
MG	0.00998	15.60	26.713	0.01306	0.00837	0.00852
MN	0.00011	18.33	62.242	0.00017	0.00012	0.00004
MO	0.00026	2.89	41.353	0.00022	0.00038	0.00017
NA	-0.00845	50.05	100.031	0.00086	-0.01564	-0.01055
NI	-0.00020	8.36	151.223	-0.00002	-0.00055	-0.00003
P	0.00002	0.60	3740.785	0.00078	0.00059	-0.00131
PB	0.00011	-4.13	766.678	0.00054	0.00061	-0.00083
S	-0.01011	9.18	22.815	-0.01177	-0.01110	-0.00748
SB	-0.00118	-1.02	125.890	0.00017	-0.00095	-0.00278
SE	0.00073	-0.18	97.911	0.00004	0.00068	0.00147
SI	-0.01813	-0.09	24.056	-0.02249	-0.01377	-0.01812
SN	0.00050	0.55	139.805	0.00128	-0.00005	0.00026
SR	0.00004	60.71	52.937	0.00006	0.00003	0.00002
TI	-0.00004	12.20	6.803	-0.00003	-0.00004	-0.00004
TL	0.00092	3.18	22.856	0.00098	0.00069	0.00109
V	-0.00049	-5.40	45.229	-0.00028	-0.00046	-0.00072
Y1	13891.05697	13,891.06	0.256	13907.29343	13915.59821	13850.27928
Y2A	350128.03733	350,128.04	0.381	351619.53280	349721.09013	349043.48907
Y2R	10312.13774	10,312.14	0.278	10279.37949	10332.81811	10324.21563
ZN	0.00015	9.35	108.763	0.00028	0.00023	-0.00004
ZR	0.00055	1.68	191.945	-0.00062	0.00141	0.00085

ASX73 2269

Mercury Data

ASX73 2210

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1220603M07

Mercury Run Data Report

Data File Name: 1220603.M07

Run Name: 1220603M07

Instrument No.: 17384

Element: Hg

Analyst Employee ID: 0354

Reviewed By
Damary Valentin

Reviewed Date
07/24/2012 4:44PM

Method Reference Name(s):
SW-846 7470A

Verified By:
Jennifer L Moyer

Verified Date
07/25/2012 12:49PM

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

1 Burn Date/Time: 07/24/2012 12:31

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0		1	1	1.00

AVG (ppb)	Intensity
0.0000	-1747.0

2 Burn Date/Time: 07/24/2012 12:33

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0.2		1	1	1.00

AVG (ppb)	Intensity
0.0000	201.0

3 Burn Date/Time: 07/24/2012 12:35

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0.5		1	1	1.00

AVG (ppb)	Intensity
0.0000	2453.0

4 Burn Date/Time: 07/24/2012 12:37

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S1		1	1	1.00

AVG (ppb)	Intensity
0.0000	6098.0

5 Burn Date/Time: 07/24/2012 12:39

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S2.5		1	1	1.00

AVG (ppb)	Intensity
0.0000	17503.0

6 Burn Date/Time: 07/24/2012 12:41

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S5		1	1	1.00

AVG (ppb)	Intensity
0.0000	36571.0

CorrelationCoefficient = 0.99995

ASX73 2212

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

7 Burn Date/Time: 07/24/2012 12:43

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
ICV		1	1	1.00

AVG (ppb)	Intensity
2.3995	16774.0

8 Burn Date/Time: 07/24/2012 12:45

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
ICB		1	1	1.00

AVG (ppb)	Intensity
0.0360	-1220.0

9 Burn Date/Time: 07/24/2012 12:47

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CRA		1	1	1.00

AVG (ppb)	Intensity
0.2104	108.0

10 Burn Date/Time: 07/24/2012 12:49

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 1		1	1	1.00

AVG (ppb)	Intensity
0.9865	6017.0

11 Burn Date/Time: 07/24/2012 12:51

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 1		1	1	1.00

AVG (ppb)	Intensity
0.0068	-1442.0

12 Burn Date/Time: 07/24/2012 12:53

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBW	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0115	-1406.0		

ASX73 2283

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

13 Burn Date/Time: 07/24/2012 12:55

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSW	**********	1	1	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0447	6460.0		

14 Burn Date/Time: 07/24/2012 12:58

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723205	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0072	-1549.0		

15 Burn Date/Time: 07/24/2012 13:00

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724288	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0144	-1384.0		

16 Burn Date/Time: 07/24/2012 13:02

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723181	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0072	-1439.0		

17 Burn Date/Time: 07/24/2012 13:04

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723184	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0059	-1449.0		

18 Burn Date/Time: 07/24/2012 13:06

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723190	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0197	-1344.0		

ASX73 2214

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

19

Burn Date/Time: 07/24/2012 13:08

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723193	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0080	-1433.0		

20

Burn Date/Time: 07/24/2012 13:10

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723197	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0001	-1493.0		

21

Burn Date/Time: 07/24/2012 13:12

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723200	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0005	-1490.0		

22

Burn Date/Time: 07/24/2012 13:14

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 2		1	1	1.00

AVG (ppb)	Intensity
1.0010	6127.0

23

Burn Date/Time: 07/24/2012 13:16

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 2		1	1	1.00

AVG (ppb)	Intensity
-0.0120	-1585.0

24

Burn Date/Time: 07/24/2012 13:18

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723202	U*********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0143	-1385.0		

ASX73 2215

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

25 Burn Date/Time: 07/24/2012 13:20

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723202	D*********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0326	-1246.0		

26 Burn Date/Time: 07/24/2012 13:22

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723202	R*********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0179	6256.0		

27 Burn Date/Time: 07/24/2012 13:24

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723202	M*********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0241	6303.0		

28 Burn Date/Time: 07/24/2012 13:26

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723208	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0488	-1122.0		

29 Burn Date/Time: 07/24/2012 13:29

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723210	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0385	-1201.0		

30 Burn Date/Time: 07/24/2012 13:31

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723215	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0428	-1168.0		

ASX73 2216

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

31

Burn Date/Time: 07/24/2012 13:33

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723218	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0393	-1195.0		

32

Burn Date/Time: 07/24/2012 13:35

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723221	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0327	-1245.0		

33

Burn Date/Time: 07/24/2012 13:37

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723223	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0289	-1274.0		

34

Burn Date/Time: 07/24/2012 13:39

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 3		1	1	1.00

AVG (ppb)	Intensity
1.0124	6214.0

35

Burn Date/Time: 07/24/2012 13:41

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 3		1	1	1.00

AVG (ppb)	Intensity
0.0294	-1270.0

36

Burn Date/Time: 07/24/2012 13:43

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6723225	**********	40	40	1.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0014	-1483.0		

ASX73 2217

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

37 Burn Date/Time: 07/24/2012 13:45

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBW	**********	40	40	1.00	122015713002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0190	-1349.0		

38 Burn Date/Time: 07/24/2012 13:47

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSW	**********	1	1	1.00	122015713002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.8958	5326.0		

39 Burn Date/Time: 07/24/2012 13:49

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSWD	**********	1	1	1.00	122015713002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.9303	5589.0		

40 Burn Date/Time: 07/24/2012 13:51

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6721504	**********	40	40	1.00	122015713002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0311	-1257.0		

41 Burn Date/Time: 07/24/2012 13:53

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBW	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0381	-1204.0		

42 Burn Date/Time: 07/24/2012 13:56

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSW	**********	1	1	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.9704	5894.0		

ASX73 2218

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

43 Burn Date/Time: 07/24/2012 13:58

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725771	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	10.9208	81649.0		

44 Burn Date/Time: 07/24/2012 14:00

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725772	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.2334	283.0		

45 Burn Date/Time: 07/24/2012 14:02

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725773	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.4212	9326.0		

46 Burn Date/Time: 07/24/2012 14:04

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 4		1	1	1.00

AVG (ppb)	Intensity
1.0353	6388.0

47 Burn Date/Time: 07/24/2012 14:06

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 4		1	1	1.00

AVG (ppb)	Intensity
0.0632	-1013.0

48 Burn Date/Time: 07/24/2012 14:08

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725775	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0834	-859.0		

ASX73 2219

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

49 Burn Date/Time: 07/24/2012 14:10

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725776	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	2.2095	15328.0		

50 Burn Date/Time: 07/24/2012 14:12

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725777	U*********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1093	-662.0		

51 Burn Date/Time: 07/24/2012 14:14

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725777	D*********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1522	-335.0		

52 Burn Date/Time: 07/24/2012 14:16

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725777	R*********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.1281	7095.0		

53 Burn Date/Time: 07/24/2012 14:18

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725777	M*********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.1556	7304.0		

54 Burn Date/Time: 07/24/2012 14:20

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725778	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1388	-437.0		

ASX73 2228

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

55 Burn Date/Time: 07/24/2012 14:22

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6721896	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0938	-780.0		

56 Burn Date/Time: 07/24/2012 14:25

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6721898	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0717	-948.0		

57 Burn Date/Time: 07/24/2012 14:27

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6721901	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0894	-813.0		

58 Burn Date/Time: 07/24/2012 14:29

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 5		1	1	1.00

AVG (ppb)	Intensity
1.0575	6557.0

59 Burn Date/Time: 07/24/2012 14:31

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 5		1	1	1.00

AVG (ppb)	Intensity
0.0978	-749.0

60 Burn Date/Time: 07/24/2012 14:33

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722497	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1161	-610.0		

ASX73 2221

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

61 Burn Date/Time: 07/24/2012 14:35

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722499	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1204	-577.0		

62 Burn Date/Time: 07/24/2012 14:37

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722501	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1194	-585.0		

63 Burn Date/Time: 07/24/2012 14:39

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724290	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1139	-627.0		

64 Burn Date/Time: 07/24/2012 14:41

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724292	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1245	-546.0		

65 Burn Date/Time: 07/24/2012 14:43

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724294	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1316	-492.0		

66 Burn Date/Time: 07/24/2012 14:45

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725584	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1112	-647.0		

ASX73 2225

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

67

Burn Date/Time: 07/24/2012 14:47

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725587	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1173	-601.0		

68

Burn Date/Time: 07/24/2012 14:49

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725590	**********	40	40	1.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1215	-569.0		

69

Burn Date/Time: 07/24/2012 14:51

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6725771	**********	40	40	5.00	122015713003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	2.5352	17807.0		

70

Burn Date/Time: 07/24/2012 14:53

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 6		1	1	1.00

AVG (ppb)	Intensity
1.1220	7048.0

71

Burn Date/Time: 07/24/2012 14:55

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 6		1	1	1.00

AVG (ppb)	Intensity
0.1242	-548.0

72

Burn Date/Time: 07/24/2012 14:58

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBW	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1207	-575.0		

ASX73 2223

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

73

Burn Date/Time: 07/24/2012 15:00

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSW	**********	1	1	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.2502	8024.0		

74

Burn Date/Time: 07/24/2012 15:02

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724297	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1391	-435.0		

75

Burn Date/Time: 07/24/2012 15:04

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724298	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1471	-374.0		

76

Burn Date/Time: 07/24/2012 15:06

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724299	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.4774	2141.0		

77

Burn Date/Time: 07/24/2012 15:08

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724300	U*********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1474	-372.0		

78

Burn Date/Time: 07/24/2012 15:10

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724300	D*********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1533	-327.0		

ASX73 2224

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

79 Burn Date/Time: 07/24/2012 15:12

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724300	R**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.1002	6882.0		

80 Burn Date/Time: 07/24/2012 15:14

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724300	M**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0726	6672.0		

81 Burn Date/Time: 07/24/2012 15:16

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724301	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.6164	3199.0		

82 Burn Date/Time: 07/24/2012 15:18

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 7		1	1	1.00

AVG (ppb)	Intensity
1.1342	7141.0

83 Burn Date/Time: 07/24/2012 15:20

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 7		1	1	1.00

AVG (ppb)	Intensity
0.1689	-208.0

84 Burn Date/Time: 07/24/2012 15:24

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724302	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1865	-74.0		

ASX73 2225

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

85 Burn Date/Time: 07/24/2012 15:26

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724303	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.7608	4298.0		

86 Burn Date/Time: 07/24/2012 15:28

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724304	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1797	-126.0		

87 Burn Date/Time: 07/24/2012 15:30

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724305	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.2025	48.0		

88 Burn Date/Time: 07/24/2012 15:33

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724306	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1455	-386.0		

89 Burn Date/Time: 07/24/2012 15:35

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724307	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.2126	125.0		

90 Burn Date/Time: 07/24/2012 15:37

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724308	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1711	-191.0		

ASX73 2226

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

91 Burn Date/Time: 07/24/2012 15:39

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724309	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1957	-4.0		

92 Burn Date/Time: 07/24/2012 15:41

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724310	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1632	-251.0		

93 Burn Date/Time: 07/24/2012 15:43

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724311	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1739	-170.0		

94 Burn Date/Time: 07/24/2012 15:45

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 8		1	1	1.00

AVG (ppb)	Intensity
1.0824	6747.0

95 Burn Date/Time: 07/24/2012 15:47

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 8		1	1	1.00

AVG (ppb)	Intensity
0.1393	-433.0

96 Burn Date/Time: 07/24/2012 15:49

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724312	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1602	-274.0		

ASX73 2227

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

97 Burn Date/Time: 07/24/2012 15:51

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724313	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1567	-301.0		

98 Burn Date/Time: 07/24/2012 15:53

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6724314	**********	40	40	1.00	122015713004

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1790	-131.0		

99 Burn Date/Time: 07/24/2012 15:57

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 9		1	1	1.00

AVG (ppb)	Intensity
1.1130	6980.0

100 Burn Date/Time: 07/24/2012 15:59

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 9		1	1	1.00

AVG (ppb)	Intensity
0.1589	-284.0

101 Burn Date/Time: 07/24/2012 16:02

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6719594	**********	0	40	1000.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.2308	263.0		

102 Burn Date/Time: 07/24/2012 16:04

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6719600	**********	0	40	1000.00	122015713001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1711	-191.0		

ASX73 2228

LANCASTER LABORATORIES

Run Name: 1220603M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

103 Burn Date/Time: 07/24/2012 16:08

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 10		1	1	1.00

AVG (ppb)	Intensity
1.1461	7232.0

104 Burn Date/Time: 07/24/2012 16:10

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 10		1	1	1.00

AVG (ppb)	Intensity
0.1546	-317.0

Extraction/Distillation/Digestion Logs

ASX73 2230

LLENS Worksheet for 1848 SW846 Water

Batch# 12 200 1848 003

Balance ID#: CLEAR **Start Time:** 7/19/12 10:50 **End Time:** 7/19/12 14:47 **Hot Block:** 15

Pipette ID: W/1000

Spike/Reagent	Lot#	Volume Added(mL)
1:1 HCL	P12183A	5.00
1:1 HNO3	P12143D	2.00
ICP Spike 1A	1209706#17	1.00
ICP Spike 1B	1209707#17	1.00
LCS1A	1209706#17	1.00
LCS1B	1209707#17	1.00

Method Ref: SW-846 3005A

	SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1)	PBW	.							1203159	
2)	LCSW	.							1203159	
3)	LCSWD	.							1203159	
4)	6721504EB	07/26/12 15:35		WW	N8			008a	1203159	

Prep Employee: JLM01184

7/19/2012

v 1.0.1

ASX73 2231

Batch# 12 200 1848 003

LLENS Batch Chronology and Change Log - SW846 Water

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/18/12 17:19	01184
2)	Sample Vol		7/19/12 13:19	01184
3)	Final Vol	CLEAR	7/19/12 13:19	01184
4)	Trial		7/19/12 13:19	01184
5)	Upload Prep	US19VDIELD02	7/19/12 14:47	01184

Sample ID	Analysis	D	Operation	Measurement	Original Entry				Data Changed		
					Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason

Analysis: 1848 SW846 Water

Batch# 12 200 1848 003

Sample ID	Due Date	P	EPA#	SDG#	Initial Volume	Final Volume	Trial
PBW					50.0000	50.0000	1
LCSW					1.0000	1.0000	1
LCSWD					1.0000	1.0000	1
6721504EB	07/26/12	N8	EB713	ASX73-11EB	50.0000	50.0000	1

LLENS Worksheet for 5713 Hg SW846 Digest Water

Batch# 12 201 5713 002

Balance ID#: CLEAR **Start Time:** 7/20/12 16:50 **End Time:** 7/20/12 20:15 **Hot Block:** 18065

Pipette ID: 220102A
Reflux Cap Lot#: 1111173-2100 D

Spike/Reagent	Lot#	Volume Added(mL)
5%K2S2O8	H12-187 H	3.20
5%KMnO4	H12-185 G	6.00
H2SO4	121126	2.00
HNO3	1111050	1.00
LCS	H12-202 C	0.04

Method Ref: SW-846 7470A

	SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1)	PBW	.							1203159	
2)	LCSW	.							1203159	
3)	LCSWD	.							1203159	
4)	6721504EB	07/26/12 15:35		WW	N8			008a	1203159	

Prep Employee: NSM00823
7/20/2012
v 1.0.1

ASX73 2234

Batch# 12 201 5713 002

LLENS Batch Chronology and Change Log - Hg SW846 Digest Water

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/19/12 17:17	00823
2)	Sample Vol		7/20/12 19:18	00823
3)	Final Vol	CLEAR	7/20/12 19:18	00823
4)	Trial		7/20/12 19:18	00823
5)	Upload Prep	US19VDIELD00	7/20/12 19:19	00823

Sample ID	Analysis	D	Operation	Measurement	Original Entry				Data Changed		
					Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason

Analysis: 5713 Hg SW846 Digest Water

Batch# 12 201 5713 002

Sample ID	Due Date	P	EPA#	SDG#	Initial Volume	Dilution	Final Volume	Trial
PBW					40.0000	1.0000	40.0000	1
LCSW					1.0000	1.0000	1.0000	1
LCSWD					1.0000	1.0000	1.0000	1
6721504EB	07/26/12	N8	EB713	ASX73-11EB	40.0000	1.0000	40.0000	1

Metals in Solid Data

ASX73 2237

Case Narrative/Conformance Summary

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

ICP Metals

Fraction: Metals in Solid

Sample #	Client ID	Matrix Liquid	Matrix Solid	Comments
6721497	SB-49(0-2)		X	
6721503	SB-32(0.0-2.0)		X	

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:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

Method defined actions are taken for any failed matrix QC.

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Refer to analysis run log for samples requiring dilutions.

The instrument detection limits (IDLs) are used for determining the U flags on the initial and continuing calibration blanks. The highest IDL is selected when multiple instruments are used for an analysis. The method detection limits (MDLs) are used for determining all other U flags.

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Case Narrative/Conformance Summary

CLIENT: Stantec
SDG: ASX73

ICP Metals

Fraction: Metals in Solid

Abbreviation Key

BKG – Background	AF - Cold Vapor Atomic Fluorescence
DUP – Duplicate	U - Below MDL
MS - Matrix Spike	B - Below LOQ
MSD - Matrix Spike Dup	N - Matrix Spike out of specifications
B – Blank	* - Duplicate out of specifications
Q - Laboratory Control Sample	E - Matrix Effects exist as proven by Serial Dilution or Spiked Dilution
Y - Laboratory Control Sample Duplicate	A - Post Digestion Spike
P - ICP Atomic Emission Spectrometer	L - Serial Dilution
MS - ICP Mass Spectrometry	R - Internal Standard Relative Intensity OOS
CV - Cold Vapor	NR - Not Required

Narrative Reviewed and Approved 08.01.12 by
(Date)

Betty L. Umble
Specialist

Sample Data

ASX73 2241

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QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: ASX73
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6721497
Concentration Units: MG/KG

% Solids: 93.9
Date Received: 07/16/2012

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7720			P
7440-36-0	Antimony	2.4			P
7440-38-2	Arsenic	7.4			P
7440-39-3	Barium	152			P
7440-41-7	Beryllium	0.32	B		P
7440-43-9	Cadmium	0.95			P
7440-70-2	Calcium	59400			P
7440-47-3	Chromium	49.7			P
7440-48-4	Cobalt	6.8			P
7440-50-8	Copper	102			P
7439-89-6	Iron	21600			P
7439-92-1	Lead	369			P
7439-95-4	Magnesium	28600			P
7439-96-5	Manganese	305			P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	25.0			P
7440-09-7	Potassium	2130			P
7782-49-2	Selenium	0.86	B		P
7440-22-4	Silver	0.14	U		P
7440-23-5	Sodium	139			P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	40.8			P
7440-66-6	Zinc	173			P

Comments:

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U = Below MDL,
MS = ICP Mass Spectrometry	B = Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	
NR = Not Required	

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QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: ASX73
Matrix: SOIL Level (low/med): LOW

Lab Sample ID: 6721503
Concentration Units: MG/KG

% Solids: 95.9
Date Received: 07/16/2012

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13300			P
7440-36-0	Antimony	1.2	B		P
7440-38-2	Arsenic	3.5			P
7440-39-3	Barium	176			P
7440-41-7	Beryllium	0.35	B		P
7440-43-9	Cadmium	0.72			P
7440-70-2	Calcium	9070			P
7440-47-3	Chromium	34.6			P
7440-48-4	Cobalt	8.8			P
7440-50-8	Copper	53.0			P
7439-89-6	Iron	23800			P
7439-92-1	Lead	73.6			P
7439-95-4	Magnesium	6060			P
7439-96-5	Manganese	275			P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	32.7			P
7440-09-7	Potassium	3600			P
7782-49-2	Selenium	0.79	B		P
7440-22-4	Silver	0.14	U		P
7440-23-5	Sodium	144			P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	36.2			P
7440-66-6	Zinc	70.2			P

Comments:

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U = Below MDL,
MS = ICP Mass Spectrometry	B = Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	
NR = Not Required	

Quality Control and Calibration Summary Forms

ASX73 2244

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QUALITY CONTROL REFERENCE LIST

SDG No.: ASX73
Matrix: SOIL

Analyte	Batch ID	Lab Sample ID
Aluminum	P20008C	6721497BKG
Antimony		6721497MS
Arsenic		6721497MSD
Barium		6721497DUP
Beryllium		6721503
Cadmium		P20008CB
Calcium		P20008CQ
Chromium		
Cobalt		
Copper		
Iron		
Lead		
Magnesium		
Manganese		
Nickel		
Potassium		
Selenium		
Silver		
Sodium		
Thallium		
Vanadium		
Zinc		

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

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QUALITY CONTROL REFERENCE LIST

SDG No.: ASX73
Matrix: SOIL

Analyte	Batch ID	Lab Sample ID
Mercury	P20011B	6721497BKG
		6721497MS
		6721497MSD
		6721497DUP
		6721503
		P20011BB
		P20011BQ

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

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QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: ASX73

Method: P
Run Name: 1220202T71
Calibration Date(s): 07/20/2012
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)	True	Found	%R(2)
Aluminum		30000.0	29776.96	99.3	25000.0	24380.52	97.5	25000.0	24243.26	97.0
Antimony		600.0	613.62	102.3	500.0	497.80	99.6	500.0	492.97	98.6
Arsenic		600.0	602.36	100.4	500.0	485.13	97.0	500.0	480.24	96.0
Barium		600.0	603.70	100.6	500.0	497.42	99.5	500.0	503.36	100.7
Beryllium		600.0	603.12	100.5	500.0	482.05	96.4	500.0	485.18	97.0
Cadmium		600.0	592.91	98.8	500.0	490.68	98.1	500.0	497.48	99.5
Calcium		30000.0	30142.53	100.5	25000.0	24714.71	98.9	25000.0	24960.25	99.8
Chromium		600.0	593.48	98.9	500.0	488.39	97.7	500.0	494.23	98.8
Cobalt		600.0	593.31	98.9	500.0	486.26	97.3	500.0	485.54	97.1
Copper		600.0	597.98	99.7	500.0	484.65	96.9	500.0	487.76	97.6
Iron		30000.0	29849.47	99.5	25000.0	24361.55	97.4	25000.0	24338.57	97.4
Lead		600.0	593.90	99.0	500.0	490.22	98.0	500.0	487.54	97.5
Magnesium		30000.0	29626.92	98.8	25000.0	24317.56	97.3	25000.0	24491.08	98.0
Manganese		600.0	596.00	99.3	500.0	489.18	97.8	500.0	493.56	98.7
Nickel										
Potassium		30000.0	29786.60	99.3	25000.0	24074.23	96.3	25000.0	24555.03	98.2
Selenium		600.0	603.26	100.5	500.0	478.76	95.8	500.0	477.06	95.4
Silver		600.0	599.59	99.9	500.0	485.12	97.0	500.0	486.32	97.3
Sodium		30000.0	29618.12	98.7	25000.0	24046.36	96.2	25000.0	24187.83	96.8
Thallium		600.0	600.06	100.0	500.0	491.65	98.3	500.0	491.03	98.2
Vanadium		600.0	603.49	100.6	500.0	492.65	98.5	500.0	495.75	99.2
Zinc										

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: ASX73

Method: P
Run Name: 1220202T71
Calibration Date(s): 07/20/2012
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)
Aluminum					25000.0	24587.53	98.4			
Antimony					500.0	501.06	100.2			
Arsenic					500.0	488.51	97.7			
Barium					500.0	507.06	101.4			
Beryllium					500.0	487.91	97.6			
Cadmium					500.0	491.48	98.3			
Calcium					25000.0	25051.30	100.2			
Chromium					500.0	494.61	98.9			
Cobalt					500.0	487.43	97.5			
Copper					500.0	490.07	98.0			
Iron					25000.0	24440.56	97.8			
Lead					500.0	488.86	97.8			
Magnesium					25000.0	24704.50	98.8			
Manganese					500.0	494.36	98.9			
Nickel										
Potassium					25000.0	24300.57	97.2			
Selenium					500.0	487.31	97.5			
Silver					500.0	491.98	98.4			
Sodium					25000.0	24285.07	97.1			
Thallium					500.0	492.24	98.4			
Vanadium					500.0	500.14	100.0			
Zinc										

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: ASX73

Method: P
Run Name: 1220207T70
Calibration Date(s): 07/20/2012
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)
Aluminum										
Antimony										
Arsenic										
Barium		600.0	599.33	99.9	500.0	502.59	100.5	500.0	498.68	99.7
Beryllium										
Cadmium										
Calcium		30000.0	29486.35	98.3	25000.0	24921.46	99.7	25000.0	24666.12	98.7
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Magnesium										
Manganese										
Nickel		600.0	592.41	98.7	500.0	494.27	98.9	500.0	493.07	98.6
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Vanadium										
Zinc		600.0	579.01	96.5	500.0	478.87	95.8	500.0	483.32	96.7

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: ASX73

Method: P
Run Name: 1220207T70
Calibration Date(s): 07/20/2012
Concentration Units: UG/L

Analyte	Mass	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(2)
Aluminum										
Antimony										
Arsenic										
Barium					500.0	504.39	100.9			
Beryllium										
Cadmium										
Calcium					25000.0	24999.83	100.0			
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Magnesium										
Manganese										
Nickel					500.0	494.29	98.9			
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Vanadium										
Zinc					500.0	481.63	96.3			

(1) Control Limits: 90 - 110
(2) Control Limits: 90 - 110

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
SDG No.: ASX73

Method: CV
Run Name: 1220703M07
Calibration Date(s): 07/25/2012
Concentration Units: UG/L

Analyte	Mass	Initial Calibration			Continuing Calibration					
		True	Found	%R(1)	True	Found	%R(2)	True	Found	%R(2)
Mercury		2.5	2.66	106.4	1.0	1.06	106.0	1.0	1.06	106.0

(1) Control Limits: 90 - 110
(2) Control Limits: 80 - 120

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: ASX73

Method: P
Run Name: 1220202T71
Calibration Date(s): 07/20/2012
Concentration Units: UG/L

Analyte	Mass	True	Initial Found	Initial %R	Final Found	Final %R
Aluminum		200.0	176.55	88.3	211.42	105.7
Antimony		20.0	19.62	98.1	20.37	101.9
Arsenic		20.0	19.24	96.2	17.38	86.9
Barium		5.0	5.05	101.0	5.20	104.0
Beryllium		5.0	4.90	98.0	4.89	97.8
Cadmium		5.0	4.26	85.2	4.52	90.4
Calcium		200.0	189.45	94.7	203.35	101.7
Chromium		15.0	15.03	100.2	14.33	95.5
Cobalt		5.0	4.60	92.0	5.01	100.2
Copper		10.0	9.78	97.8	10.03	100.3
Iron		200.0	191.50	95.8	198.07	99.0
Lead		15.0	14.58	97.2	15.00	100.0
Magnesium		100.0	94.71	94.7	97.75	97.8
Manganese		5.0	5.11	102.2	5.46	109.2
Nickel						
Potassium		500.0	480.05	96.0	424.52	84.9
Selenium		20.0	19.81	99.1	22.24	111.2
Silver		5.0	5.11	102.2	5.14	102.8
Sodium		1000.0	894.76	89.5	719.17	71.9
Thallium		30.0	29.46	98.2	29.74	99.1
Vanadium		5.0	4.95	99.0	5.03	100.6
Zinc						

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: ASX73

Method: P
Run Name: 1220207T70
Calibration Date(s): 07/20/2012
Concentration Units: UG/L

Analyte	Mass	True	Initial Found	Initial %R	Final Found	Final %R
Aluminum						
Antimony						
Arsenic						
Barium		5.0	5.06	101.2	5.43	108.6
Beryllium						
Cadmium						
Calcium		200.0	195.76	97.9	238.12	119.1
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Nickel		10.0	9.42	94.2	10.12	101.2
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc		20.0	19.45	97.3	19.64	98.2

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 2B
LOW LEVEL CHECK STANDARD
SDG No.: ASX73

Method: CV
Run Name: 1220703M07
Calibration Date(s): 07/25/2012
Concentration Units: UG/L

Analyte	Mass	Initial True	Initial Found	Initial %R	Final Found	Final %R
Mercury		0.2	0.20	100.0		

Control limits: 50% - 150%

For 6010B - Control limits apply to values up to 10 times the true value of the low level check standard. If LLC is out of specification, high, results < RL are acceptable.
For 6010C - If Low Level Check (LLC) is out of specification, results > CCV are acceptable. If LLC is out of specification, high, results < RL are acceptable.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: ASX73

Method: P
Run Name: 1220202T71
Calibration Date(s): 07/20/2012
Preparation Blank Matrix: SOIL

Analyte	Mass	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Mass	Preparation Blank (MG/KG)	C	Lab Sample ID
Aluminum		33.3	U	33.3	U	33.3	U	33.3	U		7.500	U	P20008CB
Antimony		2.1	U	2.1	U	2.1	U	2.1	U		0.490	U	P20008CB
Arsenic		3.1	U	3.1	U	3.1	U	3.1	U		0.320	U	P20008CB
Barium		0.33	U	0.33	U	0.33	U	0.33	U		0.032	U	P20008CB
Beryllium		0.67	U	0.67	U	0.67	U	0.67	U		0.065	U	P20008CB
Cadmium		0.68	U	0.68	U	0.68	U	0.68	U		0.032	U	P20008CB
Calcium		33.4	U	33.4	U	33.4	U	33.4	U		3.900	U	P20008CB
Chromium		0.77	U	0.77	U	0.77	U	0.77	U		0.085	U	P20008CB
Cobalt		0.48	U	0.48	U	0.48	U	0.48	U		0.087	U	P20008CB
Copper		1.7	U	1.7	U	1.7	U	1.7	U		0.170	U	P20008CB
Iron		33.3	U	33.3	U	33.3	U	33.3	U		3.700	U	P20008CB
Lead		1.9	U	1.9	U	1.9	U	1.9	U		0.460	U	P20008CB
Magnesium		16.7	U	16.7	U	16.7	U	16.7	U		1.700	U	P20008CB
Manganese		0.83	U	0.83	U	0.83	U	0.83	U		0.081	U	P20008CB
Nickel													
Potassium		83.4	U	83.4	U	83.4	U	83.4	U		13.100	U	P20008CB
Selenium		5.6	B	3.4	U	3.4	U	3.4	U		0.700	U	P20008CB
Silver		0.69	U	0.71	B	0.69	U	0.69	U		0.140	U	P20008CB
Sodium		167	U	167	U	-267	B	-241	B		-17.072	B	P20008CB
Thallium		1.7	U	1.7	U	1.7	U	1.7	U		0.360	U	P20008CB
Vanadium		0.83	U	0.83	U	0.83	U	0.83	U		0.110	U	P20008CB
Zinc													

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

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QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: ASX73

Method: P
Run Name: 1220207T70
Calibration Date(s): 07/20/2012
Preparation Blank Matrix: SOIL

Analyte	Mass	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (MG/KG)			
			C	1	C	2	C	3	C	Mass		C	Lab Sample ID
Aluminum													
Antimony													
Arsenic													
Barium		0.33	U	0.33	U	0.33	U	0.33	U				
Beryllium													
Cadmium													
Calcium		33.4	U	44.7	B	60.8	B	65.8	B				
Chromium													
Cobalt													
Copper													
Iron													
Lead													
Magnesium													
Manganese													
Nickel		1.1	U	1.1	U	1.1	U	1.1	U		0.110	U	P20008CB
Potassium													
Selenium													
Silver													
Sodium													
Thallium													
Vanadium													
Zinc		2.0	U	2.0	U	2.0	U	2.0	U		0.388	B	P20008CB

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

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QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: ASX73

Method: CV
Run Name: 1220703M07
Calibration Date(s): 07/25/2012
Preparation Blank Matrix: SOIL

Analyte	Mass	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (MG/KG)			
			C	1	C	2	C	3	C	Mass		C	Lab Sample ID
Mercury		0.028	U	0.028	U	0.028	U				0.010	U	P20011BB

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

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QUALITY ASSURANCE SUMMARY
FORM 4A
ICP-AES INTERFERENCE CHECK SAMPLE
SDG No.: ASX73

Instrument ID: 16315
Run Name: 1220202T71
Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	%R	Initial Found Sol. AB	%R	Final Found Sol. A	%R	Final Found Sol. AB	%R
Aluminum	500000	500000	504504	100.9	503716.7	100.7	502754	100.6	499627.9	99.9
Antimony	0	600	5		631.1	105.2	3		627.3	104.6
Arsenic	0	100	7		106.6	106.6	3		109.8	109.8
Barium	0	500	0		535.6	107.1	0		540.0	108.0
Beryllium	0	500	0		507.1	101.4	0		511.0	102.2
Cadmium	0	1000	0		967.8	96.8	0		980.2	98.0
Calcium	500000	500000	504029	100.8	504226.1	100.8	506999	101.4	502888.7	100.6
Chromium	0	500	3		486.5	97.3	3		493.7	98.7
Cobalt	0	500	2		485.6	97.1	2		486.5	97.3
Copper	0	500	-5		525.4	105.1	-5		528.7	105.7
Iron	200000	200000	199639	99.8	200543.9	100.3	199582	99.8	198111.0	99.1
Lead	0	50	5		53.0	106.0	7		50.6	101.2
Magnesium	500000	500000	484078	96.8	485134.5	97.0	489091	97.8	483830.4	96.8
Manganese	0	500	4		486.4	97.3	4		491.1	98.2
Nickel										
Potassium	0	0	77		20.1		-37		13.9	
Selenium	0	50	0		56.3	112.6	0		51.3	102.6
Silver	0	200	-4		215.6	107.8	-3		216.4	108.2
Sodium	0	0	51		16.3		-165		-131.4	
Thallium	0	100	6		98.7	98.7	8		103.9	103.9
Vanadium	0	500	0		510.2	102.0	0		512.5	102.5
Zinc										

Control Limits: All Metals 80%-120%

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QUALITY ASSURANCE SUMMARY
FORM 4A
ICP-AES INTERFERENCE CHECK SAMPLE
SDG No.: ASX73

Instrument ID: 11016
Run Name: 1220207T70
Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500000	500000	486754	97.4	479611.0	95.9	485259	97.1	483207.7	96.6
Antimony										
Arsenic										
Barium	0	500	0		528.7	105.7	0		531.9	106.4
Beryllium										
Cadmium										
Calcium	500000	500000	473333	94.7	476502.3	95.3	477329	95.5	472983.4	94.6
Chromium										
Cobalt										
Copper										
Iron	200000	200000	194269	97.1	191687.7	95.8	193196	96.6	194373.6	97.2
Lead										
Magnesium	500000	500000	464908	93.0	472021.6	94.4	471888	94.4	475170.2	95.0
Manganese										
Nickel	0	1000	0		942.8	94.3	-1		944.0	94.4
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Vanadium										
Zinc	0	1000	5		1017.4	101.7	5		1021.8	102.2

Control Limits: All Metals 80%-120%

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: ASX73
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6721497BKG Matrix Spike Lab Sample ID: 6721497MS Matrix Spike Duplicate Lab Sample ID: 6721497MSD
% Solids for Sample: 93.9
Batch Id(s): P20008C, P20011B

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike	Units	MS		MSD				Control Limit		
		Result	C	Result	C	Result	C	Added	Added		%R	Q	%R	Q	RPD	Q	%R	RPD	M
Aluminum		7723.1271		13198.8075		12058.4142		210.8837	208.8162	MG/KG	2597		2076		9			20	P
Antimony		2.4095		34.3277		35.6648		52.7209	52.2041	MG/KG	61	N	64	N	4		75 - 125	20	P
Arsenic		7.4015		22.0173		21.5582		15.8163	15.6612	MG/KG	92		90		2		75 - 125	20	P
Barium		151.9773		419.8674		497.5297		210.8837	208.8162	MG/KG	127	N	165	N	17		75 - 125	20	P
Beryllium		0.3205	B	6.1378		5.7529		5.2721	5.2204	MG/KG	110		104		6		83 - 111	20	P
Cadmium		0.9513		6.2643		6.0327		5.2721	5.2204	MG/KG	101		97		4		75 - 125	20	P
Calcium		59437.9782		18578.9622		22434.4129		421.7674	417.6324	MG/KG	-9688		-8860		19			20	P
Chromium		49.7020		86.4339		63.9604		21.0884	20.8816	MG/KG	174	N	68	N	30	*	75 - 125	20	P
Cobalt		6.8209		60.9380		58.2712		52.7209	52.2041	MG/KG	103		99		4		78 - 113	20	P
Copper		101.5022		153.5887		134.1655		26.3605	26.1020	MG/KG	198	N	125		13		75 - 125	20	P
Iron		21569.7489		25958.1860		22580.0278		105.4419	104.4081	MG/KG	4162		968		14			20	P
Lead		369.0106		451.2827		455.1400		15.8163	15.6612	MG/KG	520		550		1			20	P
Magnesium		28567.5934		9181.8197		12032.4741		210.8837	208.8162	MG/KG	-9193		-7919		27	*		20	P
Manganese		304.8271		491.0016		545.0375		52.7209	52.2041	MG/KG	353		460		10			20	P
Mercury		0.1329		0.2883		0.3483		0.1749	0.1757	MG/KG	89		123	N	19		80 - 120	20	CV
Nickel		24.9877		83.5806		83.8679		52.7209	52.2041	MG/KG	111		113		0		75 - 125	20	P
Potassium		2126.1397		3597.0033		3419.2800		1054.4185	1044.0811	MG/KG	139	N	124		5		75 - 125	20	P
Selenium		0.8632	B	16.4384		16.3315		15.8163	15.6612	MG/KG	98		99		1		75 - 125	20	P
Silver		0.1434	U	5.1877		4.9469		5.2721	5.2204	MG/KG	98		95		5		75 - 125	20	P
Sodium		138.9520		1324.4804		1354.4582		1054.4185	1044.0811	MG/KG	112		116		2		75 - 125	20	P
Thallium		0.3789	U	14.3433		13.9333		15.8163	15.6612	MG/KG	91		89		3		75 - 125	20	P
Vanadium		40.7850		95.8393		85.3442		52.7209	52.2041	MG/KG	104		85		12		75 - 125	20	P
Zinc		172.7247		357.7610		291.3602		52.7209	52.2041	MG/KG	351	N	227	N	20		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

ASX73 0225

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QUALITY ASSURANCE SUMMARY
FORM 5B
POST DIGEST SPIKE SAMPLE RECOVERY
SDG No.: ASX73
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6721497BKG
Batch ID(s): P20008C, P20011B
Concentration Units: UG/L

Post Digest Spike Lab Sample ID: 6721497A

Analyte	Mass	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony			426.5600		23.5300		400.0000	101		P
Barium			1497.4600		1484.1500		50.0000	27		P
Chromium			666.0500		485.3700		200.0000	90		P
Copper			1470.5800		991.2300		500.0000	96		P
Mercury			1.7073		0.7600		1.0000	95		CV
Potassium			22369.1500		20763.0300		2000.0000	80		P
Zinc			1779.3800		1686.7600		120.0000	77		P

Comments:

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

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QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: ASX73
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6721497BKG
% Solids for Duplicate: 93.9
Batch ID(s): P20008C, P20011B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6721497DUP
% Solids for Sample: 93.9

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			7723.1271		8221.9372		6		P
Antimony		2.0	2.4095		1.9368	B	22		P
Arsenic		2.0	7.4015		5.9784		21		P
Barium			151.9773		157.5341		4		P
Beryllium			0.3205	B	0.3247	B	1		P
Cadmium		0.5	0.9513		0.8374		13		P
Calcium			59437.9782		43945.4050		30	*	P
Chromium			49.7020		27.6107		57	*	P
Cobalt			6.8209		6.5516		4		P
Copper			101.5022		86.8707		16		P
Iron			21569.7489		18970.2406		13		P
Lead			369.0106		306.5359		18		P
Magnesium			28567.5934		21021.8704		30	*	P
Manganese			304.8271		242.1349		23	*	P
Mercury		0.1	0.1329		0.1132		16		CV
Nickel			24.9877		21.4329		15		P
Potassium			2126.1397		1853.9425		14		P
Selenium			0.8632	B	0.7851	B	9		P
Silver			-0.4280	B	-0.3905	B	-9		P
Sodium		102.4	138.9520		141.2266		2		P
Thallium			-0.7250	B	-0.5868	B	-21		P
Vanadium			40.7850		25.7742		45	*	P
Zinc			172.7247		156.6612		10		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

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QUALITY ASSURANCE SUMMARY
FORM 7
LABORATORY CONTROL SAMPLE
SDG No.: ASX73
Matrix: SOIL

Analyte	Mass	Lab Sample ID	Units	True	Found	C	Control Limits (%)	%R	M	In Spec
Aluminum		P20008CQ	UG/L	200000.0	197989.0		80 - 120	99	P	Yes
Antimony		P20008CQ	UG/L	50000.0	51039.0		80 - 120	102	P	Yes
Arsenic		P20008CQ	UG/L	15000.0	14927.0		80 - 120	100	P	Yes
Barium		P20008CQ	UG/L	200000.0	201822.0		80 - 120	101	P	Yes
Beryllium		P20008CQ	UG/L	5000.0	5162.0		80 - 120	103	P	Yes
Cadmium		P20008CQ	UG/L	5000.0	5074.0		80 - 120	101	P	Yes
Calcium		P20008CQ	UG/L	400000.0	409176.0		80 - 120	102	P	Yes
Chromium		P20008CQ	UG/L	20000.0	20376.0		80 - 120	102	P	Yes
Cobalt		P20008CQ	UG/L	50000.0	51206.0		80 - 120	102	P	Yes
Copper		P20008CQ	UG/L	25000.0	25916.0		80 - 120	104	P	Yes
Iron		P20008CQ	UG/L	100000.0	100614.0		80 - 120	101	P	Yes
Lead		P20008CQ	UG/L	15000.0	15434.0		80 - 120	103	P	Yes
Magnesium		P20008CQ	UG/L	200000.0	200651.0		80 - 120	100	P	Yes
Manganese		P20008CQ	UG/L	50000.0	51134.0		80 - 120	102	P	Yes
Mercury		P20011BQ	UG/L	100.0	101.4		80 - 120	101	CV	Yes
Nickel		P20008CQ	UG/L	50000.0	52205.0		80 - 120	104	P	Yes
Potassium		P20008CQ	UG/L	1000000.0	971577.0		80 - 120	97	P	Yes
Selenium		P20008CQ	UG/L	15000.0	14718.0		80 - 120	98	P	Yes
Silver		P20008CQ	UG/L	5000.0	5019.0		80 - 120	100	P	Yes
Sodium		P20008CQ	UG/L	1000000.0	980520.0		80 - 120	98	P	Yes
Thallium		P20008CQ	UG/L	15000.0	15484.0		80 - 120	103	P	Yes
Vanadium		P20008CQ	UG/L	50000.0	50925.0		80 - 120	102	P	Yes
Zinc		P20008CQ	UG/L	50000.0	50087.0		80 - 120	100	P	Yes

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

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QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: ASX73
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6721497BKG Serial Dilution Lab Sample ID: 6721497L
Batch ID(s): P20008C
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		75420.9700		78321.7500		4		P
Antimony		23.5300		27.0000	B	15		P
Arsenic		72.2800		108.8000		51		P
Barium		1484.1500		1547.1000		4		P
Beryllium		3.1300	B	3.3500	U	100		P
Cadmium		9.2900		7.9000	B	15		P
Calcium		290223.7600		296542.9000		2		P
Chromium		485.3700		531.0000		9		P
Cobalt		66.6100		70.1500		5		P
Copper		991.2300		1010.0500		2		P
Iron		210641.5400		216711.9000		3		P
Lead		3603.6100		3875.2000		8		P
Magnesium		278979.6900		296111.9000		6		P
Manganese		2976.8200		3195.7000		7		P
Nickel		244.0200		265.5000		9		P
Potassium		20763.0300		20313.1500		2		P
Selenium		8.4300	B	36.0000	U	100		P
Silver		1.4000	U	7.0000	U			P
Sodium		1356.9500		835.0000	U	100		P
Thallium		3.7000	U	18.5000	U			P
Vanadium		398.2900		419.9500		5		P
Zinc		1686.7600		1737.9000		3		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
	FLAGS:
	E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

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QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: ASX73

Method: P
Instrument ID: 11016
Date: 07/2012

Analyte	Wavelength (nm)	Background	IDL (UG/L)
Aluminum			
Antimony			
Arsenic			
Barium	455.40		0.33
Beryllium			
Cadmium			
Calcium	317.93		33.4
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Nickel	231.60		1.1
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc	213.86		2.0

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: ASX73

Method: P
Instrument ID: 16315
Date: 07/2012

Analyte	Wavelength (nm)	Background	IDL (UG/L)
Aluminum	308.21		33.3
Antimony	206.83		2.1
Arsenic	189.04		3.1
Barium	455.40		0.33
Beryllium	313.04		0.67
Cadmium	226.50		0.68
Calcium	317.93		33.4
Chromium	267.72		0.77
Cobalt	228.62		0.48
Copper	327.40		1.7
Iron	261.19		33.3
Lead	220.35		1.9
Magnesium	285.21		16.7
Manganese	257.61		0.83
Nickel			
Potassium	766.49		83.4
Selenium	196.09		3.4
Silver	328.06		0.69
Sodium	589.59		167
Thallium	190.86		1.7
Vanadium	292.40		0.83
Zinc			

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: ASX73

Method: CV
Instrument ID: 17384
Date: 07/2012

Analyte	Wavelength (nm)	Background	IDL (UG/L)
Mercury	254.00		0.028

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: ASX73
Matrix: SOIL

Method: P
Date: 06/2012

Analyte	Wavelength (nm)	Background	LOQ (UG/L)	MDL (UG/L)
Aluminum	308.21		200	77.1
Antimony	206.83		20.0	5.0
Arsenic	189.04		20.0	3.3
Barium	455.40		5.0	0.33
Beryllium	313.04		5.0	0.67
Cadmium	226.50		5.0	0.33
Calcium	317.93		200	40.2
Chromium	267.72		15.0	0.88
Cobalt	228.62		5.0	0.90
Copper	327.40		10.0	1.8
Iron	261.19		200	38.0
Lead	220.35		15.0	4.7
Magnesium	285.21		100	17.3
Manganese	257.61		5.0	0.83
Nickel	231.60		10.0	1.1
Potassium	766.49		500	135
Selenium	196.09		20.0	7.2
Silver	328.06		5.0	1.4
Sodium	589.59		1000	167
Thallium	190.86		30.0	3.7
Vanadium	292.40		5.0	1.1
Zinc	213.86		20.0	2.0

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: ASX73
Matrix: SOIL

Method: CV
Date: 06/2012

Analyte	Wavelength (nm)	Background	LOQ (UG/L)	MDL (UG/L)
Mercury	254.00		0.60	0.062

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS
(BIANNUALLY)
SDG No.: ASX73

Instrument ID: 11016
Date: 11/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: AL	CA	FE	MG	CO
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	-0.0000200	0.0000000	-0.0006060
Zinc	213.86	0.0000000	0.0000000	0.0001000	0.0000000	0.0000000

Comments:

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QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS
(BIANNUALLY)
SDG No.: ASX73

Instrument ID: 11016
Date: 11/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: CU	MO	NI	TI	--
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
Nickel	231.60	0.0000000	0.0009920	0.0000000	0.0000000	
Zinc	213.86	0.0005830	0.0000000	0.0067400	-0.0008780	

Comments:

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QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS
(BIANNUALLY)
SDG No.: ASX73

Instrument ID: 16315
Date: 11/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: AL	CA	FE	MG	CO
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	-0.0000110	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000500	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	327.40	0.0000000	0.0000290	0.0000000	0.0000000	0.0004600
Lead	220.35	0.0002190	0.0000000	0.0000210	0.0000000	0.0000600
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	-0.0000150	0.0000000	-0.0000160
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0037560
Vanadium	292.40	0.0000000	0.0000000	0.0000130	0.0000000	0.0000000

Comments:

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QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS
(BIANNUALLY)
SDG No.: ASX73

Instrument ID: 16315
Date: 11/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: CR	CU	MN	MO	NI
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0158000	0.0000000
Antimony	206.83	0.0161400	0.0000000	0.0000000	-0.0013400	0.0001630
Arsenic	189.04	0.0004250	0.0000000	0.0000000	0.0012400	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000130	0.0000000	0.0000000	-0.0000040	0.0001140
Copper	327.40	0.0000000	0.0000000	0.0000000	-0.0014300	0.0000000
Lead	220.35	0.0000500	0.0002420	0.0000000	-0.0004460	0.0001140
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0001630	0.0000000	0.0004790	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0002880	0.0000000	0.0015810	-0.0005000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0001600	-0.0026800	0.0000000

Comments:

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QUALITY ASSURANCE SUMMARY
FORM 11
ICP INTERELEMENT CORRECTION FACTORS
(BIANNUALLY)
SDG No.: ASX73

Instrument ID: 16315
Date: 11/2011

Analyte	Wavelength (nm)	Interelement Correction Factor for: SI	SN	TI	V	ZR
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0564000	0.0000000
Antimony	206.83	0.0000000	0.0000610	0.0000000	0.0004560	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000040	0.0001160	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0020220	0.0000000	0.0000000
Copper	327.40	0.0000000	0.0000000	-0.0031800	-0.0000340	0.0000000
Lead	220.35	0.0001020	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0068660
Thallium	190.86	0.0000000	0.0000000	0.0001060	0.0021600	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0007680	0.0000000	0.0000000

Comments:

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QUALITY ASSURANCE SUMMARY
FORM 12
LINEAR RANGES
SDG No.: ASX73

Method: P
Instrument ID: 11016
Date: 07/2012

Analyte	Wavelength (nm)	Integration Time (Sec.)	Concentration (ug/L)
Aluminum			
Antimony			
Arsenic			
Barium	455.4	10.00	5000.0
Beryllium			
Cadmium			
Calcium	317.93	10.00	600000.0
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Nickel	231.6	10.00	20000.0
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc	213.86	10.00	10000.0

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 12
LINEAR RANGES
SDG No.: ASX73

Method: P
Instrument ID: 16315
Date: 07/2012

Analyte	Wavelength (nm)	Integration Time (Sec.)	Concentration (ug/L)
Aluminum	308.21	10.00	600000.0
Antimony	206.83	10.00	10000.0
Arsenic	189.04	10.00	20000.0
Barium	455.4	10.00	5000.0
Beryllium	313.04	10.00	5000.0
Cadmium	226.5	10.00	20000.0
Calcium	317.93	10.00	600000.0
Chromium	267.72	10.00	20000.0
Cobalt	228.62	10.00	10000.0
Copper	327.4	10.00	10000.0
Iron	261.19	10.00	300000.0
Lead	220.35	10.00	10000.0
Magnesium	285.21	10.00	600000.0
Manganese	257.61	10.00	10000.0
Nickel			
Potassium	766.49	10.00	100000.0
Selenium	196.09	10.00	10000.0
Silver	328.06	10.00	10000.0
Sodium	589.59	10.00	100000.0
Thallium	190.86	10.00	10000.0
Vanadium	292.4	10.00	20000.0
Zinc			

Comments:

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: ASX73

Method: P
Batch ID: P20008C

Lab Sample ID	Date	Sample Weight(gram)	Final Volume(ml)
6721503	07/19/2012	1.02	100
6721497BKG	07/19/2012	1.04	100
6721497DUP	07/19/2012	1.02	100
6721497MSD	07/19/2012	1.02	100
6721497MS	07/19/2012	1.01	100
P20008CB	07/19/2012	1.03	100
P20008CQ	07/19/2012	1.00	100

METHODS:	LEGEND:
P = ICP Atomic Emission Spectrometer	BKG = Background
MS = ICP Mass Spectrometry	DUP = Duplicate
CV = Cold Vapor	MS = Matrix Spike
AF = Cold Vapor Atomic Fluorescence	MSD = Matrix Spike Duplicate
	B = Blank
	Q = Laboratory Control Sample
	Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 13
PREPARATION LOG
SDG No.: ASX73

Method: CV
Batch ID: P20011B

Lab Sample ID	Date	Sample Weight(gram)	Final Volume(ml)
6721503	07/19/2012	0.61	100
6721497BKG	07/19/2012	0.61	100
6721497DUP	07/19/2012	0.62	100
6721497MSD	07/19/2012	0.61	100
6721497MS	07/19/2012	0.61	100
P20011BB	07/19/2012	0.62	100
P20011BQ	07/19/2012	1.00	100

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

LEGEND:
BKG = Background
DUP = Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: ASX73

Method: P
Instrument ID: 16315
Run Name: 1220202T71

Run Start Date: 07/20/2012
Run End Date: 07/20/2012

Lab Sample ID	D/F	Time	Analytes																														
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN								
S0	1.00	04:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
S	1.00	04:57	X						X				X		X				X			X											
S	1.00	05:01			X	X	X	X			X	X		X		X				X	X		X										
S	1.00	05:06		X						X														X									
ICV	1.00	05:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
ICB	1.00	05:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
LLC	1.00	05:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
ICSA	1.00	05:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
ICSAB	1.00	05:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
CCV	1.00	05:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
CCB	1.00	05:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
P20008CB	1.00	05:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
P20008CQ	1.00	05:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
6721497BKG	1.00	05:46	X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X									
6721497A	1.00	05:50		X		X				X		X							X														
6721497DUP	1.00	05:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
6721497MS	1.00	05:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
6721497MSD	1.00	06:03	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
6721497L	5.00	06:07	X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X									
6721503	1.00	06:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
CCV	1.00	06:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
CCB	1.00	06:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
LLC	1.00	06:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
ICSA	1.00	06:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
ICSAB	1.00	06:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
CCV	1.00	06:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									
CCB	1.00	06:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X									

METHODS:	LEGEND:
P = ICP Atomic Emission Spectrometer	BKG = Background
MS = ICP Mass Spectrometry	DUP = Duplicate
CV = Cold Vapor	MS = Matrix Spike
AF = Cold Vapor Atomic Fluorescence	MSD = Matrix Spike Duplicate
	A = Post Digest Spike
	L = Serial Dilution
	B = Blank
	Q = Laboratory Control Sample
	Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: ASX73

Method: P
Instrument ID: 11016
Run Name: 1220207T70

Run Start Date: 07/20/2012
Run End Date: 07/20/2012

Lab Sample ID	D/F	Time	Analytes																													
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN							
S0	1.00	17:39				X			X									X							X							
S	1.00	17:43							X																							
S	1.00	17:47				X												X							X							
S	1.00	17:51																														
ICV	1.00	17:54				X			X									X							X							
ICB	1.00	17:58				X			X									X							X							
LLC	1.00	18:02				X			X									X							X							
ICSA	1.00	18:06				X			X									X							X							
ICSAB	1.00	18:10				X			X									X							X							
CCV	1.00	18:14				X			X									X							X							
CCB	1.00	18:18				X			X									X							X							
P20008CB	1.00	18:22																X							X							
P20008CQ	1.00	18:26																X							X							
6721497BKG	1.00	18:30																X							X							
6721497A	1.00	18:34																							X							
6721497DUP	1.00	18:38																X							X							
6721497MS	1.00	18:42																X							X							
6721497MSD	1.00	18:46																X							X							
6721497L	5.00	18:51																X							X							
6721497BKG	2.00	18:54							X																							
6721497A	2.00	18:58																														
CCV	1.00	19:02				X			X									X							X							
CCB	1.00	19:06				X			X									X							X							
6721497MSD	2.00	19:10				X																										
6721497L	10.00	19:14							X																							
6721503	1.00	19:18																X							X							
LLC	1.00	19:22				X			X									X							X							
ICSA	1.00	19:25				X			X									X							X							
ICSAB	1.00	19:30				X			X									X							X							
CCV	1.00	19:34				X			X									X							X							
CCB	1.00	19:37				X			X									X							X							

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: ASX73

Method: CV
Instrument ID: 17384
Run Name: 1220703M07

Run Start Date: 07/25/2012
Run End Date: 07/25/2012

Lab Sample ID	D/F	Time	Analytes																													
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN							
S0	1.00	13:50															X															
S0.2	1.00	13:52															X															
S0.5	1.00	13:54															X															
S1.0	1.00	13:56															X															
S2.5	1.00	13:58															X															
S5.0	1.00	14:00															X															
ICV	1.00	14:02															X															
ICB	1.00	14:04															X															
CRA	1.00	14:06															X															
CCV	1.00	14:08															X															
CCB	1.00	14:10															X															
P20011BB	1.00	14:12															X															
P20011BQ	1.00	14:14															X															
6721497BKG	1.00	14:16															X															
6721497A	1.00	14:18															X															
6721497DUP	1.00	14:20															X															
6721497MS	1.00	14:22															X															
6721497MSD	1.00	14:24															X															
6721503	1.00	14:26															X															
ZZZZZZ	1.00	14:28																														
ZZZZZZ	1.00	14:30																														
CCV	1.00	14:32															X															
CCB	1.00	14:34															X															

METHODS:
- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence

LEGEND:
- BKG = Background
- DUP = Duplicate
- MS = Matrix Spike
- MSD = Matrix Spike Duplicate
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

Raw Data

ASX73 2282

ICP Data

ASX73 2283

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ICP-AES Run Data Report

1220202T71

Reviewed By
Joanne M Gates

Reviewed Date
07/20/2012 6:47AM

Data File Name 1220202T71.TXT
Run Name: 1220202T71

Verified By:
Deborah A Krady
Jennifer L Moyer

Verified Date
07/25/2012 10:24AM
07/20/2012 1:23PM

Method Reference Name(s):
SW-846 6010B

Analyst Employee: 2106

Instrument Parameters:

Individual Integration Time: 10.00 sec Total Integration Time: 30.00 sec Rinse Time: 15.00 sec

Element	Analyte Name	Wavelength Value
AG	Silver	328.06
AL	Aluminum	308.21
AS	Arsenic	189.04
AU	Gold	242.80
B	Boron	249.67
BA	Barium	455.40
BE	Beryllium	313.04
CA	Calcium	317.93
CD	Cadmium	226.50
CO	Cobalt	228.62
CR	Chromium	267.72
CU	Copper	327.40
FE	Iron	261.19
K	Potassium	766.49
LI	Lithium	670.78
MG	Magnesium	285.21
MN	Manganese	257.61
MO	Molybdenum	202.03
NA	Sodium	589.59
NI	Nickel	231.60
P	Phosphorus	177.49
PB	Lead	220.35
SB	Antimony	206.83
SE	Selenium	196.09
SI	Silicon	251.60
SN	Tin	189.99
SR	Strontium	421.55
TI	Titanium	334.94
TL	Thallium	190.86
V	Vanadium	292.40
Y1	Yttrium	224.31
Y2	Yttrium	371.03
ZN	Zinc	213.86
ZR	Zirconium	339.19

The TRACE ICP utilizes Yttrium as an internal standard to compensate for fluctuations in nebulization and plasma conditions. All Yttrium readings are expressed in counts.

LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 1

Date/Time: 07/20/2012 04:53

Sample Number: **S0**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	0.000	-0.00556	23.703	-0.00689	-0.00425	-0.00554
AL	0.000	0.02046	21.048	0.01698	0.01913	0.02527
AS	0.000	-0.00695	40.454	-0.00951	-0.00394	-0.00740
B	0.000	0.00004	31.835	0.00006	0.00004	0.00003
BA	0.000	0.00041	2.235	0.00042	0.00041	0.00040
BE	0.000	-0.02932	1.791	-0.02953	-0.02970	-0.02872
CA	0.000	0.00369	10.034	0.00357	0.00410	0.00339
CD	0.000	-0.04799	8.786	-0.04314	-0.04999	-0.05082
CO	0.000	-0.01329	38.152	-0.01360	-0.00807	-0.01820
CR	0.000	0.00005	31.854	0.00003	0.00004	0.00006
CU	0.000	0.00574	33.413	0.00353	0.00671	0.00697
FE	0.000	0.00032	41.552	0.00020	0.00028	0.00046
K	0.000	0.04435	53.571	0.02322	0.03977	0.07007
LI	0.000	0.00269	39.654	0.00288	0.00364	0.00154
MG	0.000	0.00085	28.801	0.00077	0.00065	0.00113
MN	0.000	0.00345	11.242	0.00307	0.00344	0.00384
MO	0.000	0.01064	19.626	0.00953	0.00933	0.01304
NA	0.000	0.01775	4.897	0.01677	0.01801	0.01845
NI	0.000	0.04097	2.958	0.04232	0.03998	0.04060
P	0.000	0.00003	78.753	0.00004	0.00000	0.00006
PB	0.000	-0.00841	8.764	-0.00907	-0.00761	-0.00856
S	0.000	0.00042	12.579	0.00036	0.00046	0.00044
SB	0.000	-0.00007	118.329	-0.00010	-0.00012	0.00002
SE	0.000	0.00153	53.353	0.00185	0.00060	0.00215
SI	0.000	0.00008	115.222	0.00011	-0.00002	0.00015
SN	0.000	-0.00007	1397.071	0.00089	-0.00116	0.00005
SR	0.000	0.00043	7.281	0.00039	0.00043	0.00045
TI	0.000	0.00261	41.965	0.00138	0.00346	0.00300
TL	0.000	0.00913	14.888	0.00761	0.01023	0.00955
V	0.000	0.00066	196.344	-0.00056	0.00203	0.00051
Y1	0.000	13812.39799	0.177	13837.67873	13788.81467	13810.70059
Y2A	0.000	338306.49437	0.841	341573.72432	336967.61100	336378.14778
Y2R	0.000	9959.16312	0.326	9989.89924	9925.18485	9962.40527
ZN	0.000	0.03151	6.437	0.03175	0.02938	0.03342
ZR	0.000	0.00019	79.845	0.00021	0.00032	0.00003

ASX73 2285

LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 2

Date/Time: 07/20/2012 04:57

Sample Number: **S1**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AL	50.000	11.73110	0.264	11.72821	11.70170	11.76338
CA	50.000	1.97762	0.103	1.97528	1.97877	1.97882
FE	50.000	0.56813	0.207	0.56882	0.56677	0.56880
K	50.000	26.96616	0.246	26.88971	27.00448	27.00430
MG	50.000	3.07053	0.191	3.06476	3.07648	3.07035
NA	50.000	2.16743	0.120	2.16443	2.16919	2.16866
SI	50.000	0.30986	0.140	0.30938	0.31021	0.31001
Y2R	50.000	9864.55221	0.116	9876.82500	9854.07918	9862.75245

ASX73 2286

LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 3

Date/Time: 07/20/2012 05:01

Sample Number: **S2**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	1.000	2.26609	0.622	2.25471	2.28185	2.26171
AS	1.000	1.47068	0.318	1.46756	1.47605	1.46844
B	1.000	0.02511	0.841	0.02490	0.02532	0.02510
BA	1.000	1.56874	0.369	1.56636	1.57534	1.56451
BE	1.000	70.75591	0.815	70.35243	71.41599	70.49930
CD	1.000	14.52057	0.260	14.54420	14.54050	14.47702
CO	1.000	17.75730	0.186	17.78795	17.76157	17.72238
CU	1.000	1.73765	0.606	1.72864	1.74922	1.73510
LI	1.000	0.25501	0.261	0.25424	0.25541	0.25538
MN	1.000	7.57363	0.557	7.53609	7.61925	7.56556
NI	1.000	9.87068	0.073	9.87604	9.87357	9.86244
P	1.000	0.03285	0.146	0.03287	0.03280	0.03289
PB	1.000	3.45411	0.361	3.46235	3.43978	3.46021
SE	1.000	1.16017	0.516	1.15345	1.16493	1.16214
SR	1.000	2.01700	0.164	2.01771	2.01341	2.01989
TL	1.000	1.83411	0.400	1.84060	1.83559	1.82614
Y1	1.000	13554.05304	0.101	13538.23533	13562.98422	13560.93956
Y2A	1.000	335215.78860	0.384	336280.89795	333783.79722	335582.67064
Y2R	1.000	9725.80657	0.181	9721.11544	9710.98742	9745.31686
ZN	1.000	27.42697	0.079	27.44984	27.42436	27.40670

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 4

Date/Time: 07/20/2012 05:06

Sample Number: **S3**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
CR	1.000	0.03050	0.470	0.03046	0.03066	0.03039
MO	1.000	11.41059	0.190	11.42482	11.42134	11.38560
S	1.000	0.01598	0.041	0.01598	0.01598	0.01597
SB	1.000	0.04012	0.141	0.04010	0.04008	0.04019
SN	1.000	3.76571	0.243	3.77626	3.76075	3.76010
TI	1.000	7.85482	0.419	7.84187	7.89220	7.83039
V	1.000	2.37507	0.282	2.37293	2.38258	2.36970
Y1	1.000	13762.99173	0.382	13717.75957	13750.57029	13820.64533
Y2A	1.000	337826.45792	0.479	338326.87210	336018.80384	339133.69781
Y2R	1.000	9575.68431	0.635	9593.47566	9625.64948	9507.92780
ZR	1.000	0.08818	1.908	0.08627	0.08882	0.08945

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 5

Date/Time: 07/20/2012 05:10

Sample Number: **ICV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.59959	9,028.36	0.986	0.60032	0.59335	0.60511
____ AL	29.77696	1,344.10	0.593	29.81442	29.93190	29.58457
____ AS	0.60236	238.14	0.234	0.60381	0.60227	0.60099
____ B	0.59479	5,095.29	0.943	0.59491	0.58912	0.60034
____ BA	0.60370	315,154.18	0.625	0.60774	0.60309	0.60026
____ BE	0.60312	283,917.29	0.657	0.60288	0.59929	0.60720
____ CA	30.14253	11,473.19	0.506	29.98196	30.28519	30.16044
____ CD	0.59291	2,337.91	0.092	0.59303	0.59231	0.59338
____ CO	0.59331	2,868.97	0.179	0.59372	0.59410	0.59210
____ CR	0.59348	6,029.71	0.489	0.59492	0.59014	0.59539
____ CU	0.59798	6,907.47	1.242	0.59692	0.59113	0.60587
____ FE	29.84947	3,274.48	0.188	29.79107	29.85440	29.90296
____ K	29.78660	3,086.83	0.180	29.76416	29.84783	29.74782
____ LI	0.60277	1,487.25	0.523	0.60499	0.59916	0.60415
____ MG	29.62692	17,581.57	0.291	29.52988	29.69521	29.65565
____ MN	0.59600	30,045.72	0.841	0.59542	0.59131	0.60128
____ MO	0.59519	1,847.11	0.105	0.59448	0.59562	0.59548
____ NA	29.61812	12,390.85	0.290	29.63008	29.69745	29.52683
____ NI	0.59654	1,604.56	0.125	0.59718	0.59673	0.59573
____ P	0.60770	271.50	0.343	0.60915	0.60864	0.60532
____ PB	0.59390	561.06	0.325	0.59322	0.59607	0.59239
____ S	0.62445	137.74	0.439	0.62291	0.62282	0.62761
____ SB	0.61362	334.50	0.202	0.61220	0.61446	0.61421
____ SE	0.60326	189.62	0.567	0.60179	0.60717	0.60081
____ SI	0.03273	2.71	61.716	0.01938	0.05596	0.02284
____ SN	0.59475	608.73	0.236	0.59545	0.59566	0.59313
____ SR	0.60540	406,337.81	0.176	0.60612	0.60418	0.60591
____ TI	0.60074	31,406.12	0.658	0.60074	0.59678	0.60469
____ TL	0.60006	300.73	0.199	0.60094	0.60054	0.59870
____ V	0.60349	9,544.49	0.655	0.60288	0.59988	0.60772
____ Y1	13590.07041	13,590.07	0.116	13606.75812	13588.01412	13575.43897
____ Y2A	332719.12967	332,719.13	0.513	332015.24188	334666.08681	331476.06030
____ Y2R	9596.86133	9,596.86	0.364	9635.05891	9566.66667	9588.85842
____ ZN	0.57925	4,357.76	0.162	0.57945	0.58007	0.57822
____ ZR	0.66182	560.67	0.963	0.66104	0.66854	0.65587

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 6

Date/Time: 07/20/2012 05:14

Sample Number: **ICB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00060	-34.88	89.405	0.00106	0.00072	0.00001
AL	-0.00054	3.96	7908.006	-0.05011	0.02177	0.02670
AS	-0.00114	-1.77	145.478	-0.00047	-0.00303	0.00007
B	0.00034	17.47	9.872	0.00032	0.00038	0.00031
BA	0.00000	138.33	2355.025	0.00000	0.00001	-0.00001
BE	0.00005	-189.23	10.942	0.00005	0.00005	0.00004
CA	-0.00766	32.94	135.145	-0.00797	0.00284	-0.01786
CD	-0.00047	-14.41	39.631	-0.00037	-0.00069	-0.00037
CO	-0.00013	-1.88	293.429	-0.00011	-0.00053	0.00024
CR	0.00000	15.83	427.662	-0.00001	0.00001	0.00002
CU	0.00032	42.17	211.619	-0.00040	0.00093	0.00041
FE	-0.01107	1.83	68.054	-0.01447	-0.01631	-0.00244
K	-0.04861	3.55	79.768	-0.05422	-0.00734	-0.08428
LI	0.00059	27.60	560.761	-0.00274	0.00063	0.00389
MG	-0.00760	3.68	63.884	-0.01216	-0.00250	-0.00813
MN	-0.00003	21.50	228.229	-0.00005	0.00005	-0.00009
MO	0.00022	3.59	75.584	0.00041	0.00014	0.00011
NA	-0.12169	121.81	14.355	-0.13556	-0.12744	-0.10207
NI	0.00009	11.45	238.012	0.00034	-0.00009	0.00003
P	-0.00016	0.38	1058.167	0.00117	-0.00210	0.00044
PB	0.00099	-3.44	47.417	0.00102	0.00051	0.00145
S	-0.00829	3.99	19.644	-0.00748	-0.01016	-0.00722
SB	-0.00030	-0.50	589.388	-0.00146	0.00172	-0.00116
SE	0.00563	1.29	9.219	0.00523	0.00622	0.00545
SI	-0.00984	0.18	143.334	-0.00610	-0.02545	0.00202
SN	0.00054	0.53	183.520	0.00007	-0.00013	0.00167
SR	-0.00005	109.41	57.412	-0.00002	-0.00006	-0.00007
TI	-0.00008	13.47	214.966	-0.00015	-0.00020	0.00011
TL	0.00028	2.63	322.582	0.00124	0.00015	-0.00055
V	0.00034	9.85	172.695	0.00014	0.00101	-0.00012
Y1	13663.43415	13,663.43	0.104	13674.85718	13667.93579	13647.50949
Y2A	335706.89750	335,706.90	0.357	336146.70311	334352.13718	336621.85222
Y2R	9734.47714	9,734.48	0.328	9706.77873	9769.43445	9727.21823
ZN	-0.00017	7.30	105.869	-0.00020	-0.00035	0.00002
ZR	0.00399	5.23	59.400	0.00437	0.00614	0.00145

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 7

Date/Time: 07/20/2012 05:18

Sample Number: **LLC**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.00511	37.52	3.275	0.00513	0.00493	0.00526
___ AL	0.17655	11.84	12.591	0.15088	0.18954	0.18923
___ AS	0.01924	6.46	14.770	0.01681	0.02237	0.01854
___ B	0.05311	461.50	1.605	0.05219	0.05388	0.05326
___ BA	0.00505	2,787.90	0.800	0.00501	0.00509	0.00505
___ BE	0.00490	2,112.52	1.030	0.00484	0.00492	0.00494
___ CA	0.18945	107.12	4.866	0.19842	0.18000	0.18991
___ CD	0.00426	4.48	6.318	0.00426	0.00399	0.00453
___ CO	0.00460	21.28	4.816	0.00470	0.00435	0.00475
___ CR	0.01503	169.02	1.947	0.01478	0.01496	0.01535
___ CU	0.00978	151.32	1.918	0.00966	0.01000	0.00969
___ FE	0.19150	24.12	7.296	0.19254	0.20492	0.17704
___ K	0.48005	57.95	4.627	0.47432	0.50456	0.46127
___ LI	0.02133	77.21	12.793	0.02077	0.02430	0.01893
___ MG	0.09471	64.70	4.122	0.09120	0.09891	0.09402
___ MN	0.00511	282.07	2.042	0.00507	0.00523	0.00503
___ MO	0.00965	33.12	1.883	0.00955	0.00986	0.00955
___ NA	0.89476	537.87	1.354	0.90582	0.89665	0.88181
___ NI	0.00956	37.03	0.729	0.00962	0.00948	0.00957
___ P	0.09845	44.75	0.571	0.09822	0.09908	0.09803
___ PB	0.01458	9.54	13.249	0.01529	0.01240	0.01606
___ S	0.52203	117.21	0.710	0.51874	0.52129	0.52604
___ SB	0.01962	10.47	4.206	0.01931	0.01899	0.02055
___ SE	0.01981	5.81	21.380	0.01792	0.02466	0.01685
___ SI	0.21158	13.31	11.513	0.22461	0.22665	0.18347
___ SN	0.02114	21.83	2.847	0.02148	0.02045	0.02150
___ SR	0.00494	3,478.76	0.726	0.00490	0.00497	0.00496
___ TI	0.00999	542.77	1.472	0.00985	0.00998	0.01014
___ TL	0.02946	17.20	1.202	0.02914	0.02940	0.02984
___ V	0.00495	83.02	5.406	0.00500	0.00519	0.00466
___ Y1	13721.22835	13,721.23	0.356	13689.41874	13696.86538	13777.40092
___ Y2A	334804.47868	334,804.48	0.682	337442.09742	333458.58184	333512.75679
___ Y2R	9568.43511	9,568.44	0.220	9552.05008	9561.07898	9592.17626
___ ZN	0.01902	151.54	0.711	0.01913	0.01907	0.01887
___ ZR	0.05684	49.64	6.838	0.06008	0.05253	0.05791

LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 8

Date/Time: 07/20/2012 05:22

Sample Number: **ICSA**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	-0.00377	-365.73	6.456	-0.00350	-0.00398	-0.00385
___ AL	504.50355	21,926.90	0.183	505.54298	504.18304	503.78464
___ AS	0.00720	-1.49	46.824	0.00732	0.01051	0.00377
___ B	0.01898	890.62	7.301	0.01754	0.01909	0.02031
___ BA	0.00040	312.83	5.669	0.00038	0.00042	0.00038
___ BE	-0.00029	-314.55	4.111	-0.00030	-0.00029	-0.00028
___ CA	504.02887	176,937.97	0.183	504.64545	502.96979	504.47136
___ CD	-0.00042	5.11	56.969	-0.00046	-0.00017	-0.00064
___ CO	0.00196	7.47	27.422	0.00230	0.00224	0.00134
___ CR	0.00322	43.93	6.297	0.00304	0.00318	0.00344
___ CU	-0.00549	130.38	8.134	-0.00594	-0.00548	-0.00504
___ FE	199.63942	20,028.64	0.315	200.28525	199.02749	199.60553
___ K	0.07667	15.78	46.672	0.05018	0.11738	0.06246
___ LI	-0.00120	51.26	297.119	0.00125	0.00044	-0.00529
___ MG	484.07761	234,589.38	0.249	485.46755	483.35707	483.40821
___ MN	0.00358	184.85	1.384	0.00361	0.00352	0.00360
___ MO	-0.00137	-1.24	19.040	-0.00168	-0.00124	-0.00121
___ NA	0.05129	183.91	6.938	0.04728	0.05408	0.05251
___ NI	0.00058	4.05	37.808	0.00044	0.00046	0.00083
___ P	0.02020	8.57	7.723	0.01897	0.02196	0.01968
___ PB	0.00486	80.41	11.068	0.00424	0.00522	0.00513
___ S	0.01445	7.95	8.659	0.01337	0.01582	0.01415
___ SB	0.00499	2.16	88.642	0.00413	0.00106	0.00977
___ SE	-0.00022	-2.80	167.034	0.00019	-0.00031	-0.00055
___ SI	0.02743	2.30	22.115	0.02061	0.02946	0.03222
___ SN	0.00042	0.37	128.017	0.00078	0.00066	-0.00020
___ SR	0.00252	1,664.82	1.220	0.00249	0.00252	0.00255
___ TI	-0.00121	-41.80	16.709	-0.00098	-0.00132	-0.00135
___ TL	0.00626	5.05	42.023	0.00572	0.00394	0.00911
___ V	-0.00014	39.43	429.164	0.00054	-0.00049	-0.00046
___ Y1	12323.30926	12,323.31	0.129	12305.72741	12336.66023	12327.54013
___ Y2A	302501.02300	302,501.02	0.597	303746.59920	303326.31055	300430.15926
___ Y2R	9218.54622	9,218.55	0.454	9216.36436	9177.85386	9261.42043
___ ZN	-0.00848	165.33	2.173	-0.00856	-0.00862	-0.00827
___ ZR	0.00908	9.09	49.485	0.00674	0.00625	0.01427

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 9

Date/Time: 07/20/2012 05:26

Sample Number: **ICSAB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.21563	2,661.50	0.650	0.21714	0.21540	0.21436
___ AL	503.71668	21,300.25	0.034	503.85494	503.77107	503.52403
___ AS	0.10664	34.57	2.217	0.10599	0.10926	0.10467
___ B	0.01635	874.03	5.799	0.01742	0.01605	0.01559
___ BA	0.53556	255,327.91	0.814	0.54053	0.53375	0.53239
___ BE	0.50705	217,945.27	0.759	0.51070	0.50742	0.50302
___ CA	504.22611	172,204.66	0.229	503.25366	503.92408	505.50058
___ CD	0.96783	3,458.91	0.225	0.96536	0.96945	0.96868
___ CO	0.48556	2,111.06	0.107	0.48496	0.48591	0.48580
___ CR	0.48650	4,516.34	0.900	0.49132	0.48540	0.48277
___ CU	0.52544	5,718.30	0.983	0.53115	0.52406	0.52110
___ FE	200.54393	19,568.69	0.164	200.16655	200.76629	200.69894
___ K	0.02008	9.90	244.666	0.02569	0.06616	-0.03161
___ LI	-0.00371	44.21	150.368	-0.00972	0.00130	-0.00270
___ MG	485.13447	228,634.11	0.282	484.67564	484.05689	486.67088
___ MN	0.48643	22,398.00	0.755	0.48931	0.48768	0.48230
___ MO	-0.00086	0.20	76.036	-0.00159	-0.00067	-0.00032
___ NA	0.01634	165.46	70.941	0.02929	0.01282	0.00692
___ NI	0.94971	2,288.88	0.229	0.95157	0.95025	0.94733
___ P	0.02342	10.21	3.717	0.02251	0.02425	0.02350
___ PB	0.05298	120.90	2.053	0.05358	0.05363	0.05172
___ S	0.01034	7.12	76.662	0.01934	0.00732	0.00437
___ SB	0.63113	310.36	0.467	0.63191	0.63361	0.62787
___ SE	0.05628	13.32	9.310	0.06214	0.05467	0.05204
___ SI	0.03369	2.59	55.578	0.05382	0.01678	0.03049
___ SN	0.00053	0.47	75.512	0.00097	0.00022	0.00038
___ SR	0.00248	1,650.06	1.459	0.00252	0.00248	0.00245
___ TI	-0.00096	-23.68	42.672	-0.00065	-0.00081	-0.00143
___ TL	0.09871	47.82	2.027	0.09875	0.09669	0.10069
___ V	0.51015	7,415.66	0.616	0.51317	0.51039	0.50690
___ Y1	12243.88713	12,243.89	0.177	12218.93847	12255.53912	12257.18379
___ Y2A	303847.35125	303,847.35	0.497	302343.48042	303834.60518	305363.96815
___ Y2R	8968.64728	8,968.65	0.283	8994.21850	8968.23770	8943.48563
___ ZN	1.00294	6,946.10	0.115	1.00425	1.00252	1.00206
___ ZR	0.00781	7.83	33.154	0.00992	0.00492	0.00860

ASX73 2293

LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 10

Date/Time: 07/20/2012 05:30

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.48512	7,216.47	0.646	0.48831	0.48500	0.48205
____ AL	24.38052	1,068.31	0.712	24.33499	24.57228	24.23428
____ AS	0.48513	189.14	0.408	0.48549	0.48691	0.48300
____ B	0.46793	3,970.56	0.592	0.47101	0.46714	0.46565
____ BA	0.49742	256,811.52	0.674	0.50088	0.49718	0.49419
____ BE	0.48205	224,363.68	0.630	0.48530	0.48156	0.47928
____ CA	24.71471	9,136.88	0.161	24.69407	24.76057	24.68949
____ CD	0.49068	1,909.10	0.201	0.48987	0.49039	0.49178
____ CO	0.48626	2,322.47	0.141	0.48567	0.48611	0.48701
____ CR	0.48839	4,909.74	0.483	0.49093	0.48798	0.48627
____ CU	0.48465	5,543.28	1.154	0.49083	0.48317	0.47995
____ FE	24.36155	2,597.29	0.347	24.45896	24.30841	24.31728
____ K	24.07423	2,422.05	0.600	24.11125	23.91499	24.19645
____ LI	0.48548	1,167.02	0.370	0.48392	0.48509	0.48744
____ MG	24.31756	14,026.55	0.246	24.29473	24.38533	24.27261
____ MN	0.48918	24,391.02	0.742	0.49316	0.48829	0.48607
____ MO	0.48879	1,498.93	0.123	0.48832	0.48858	0.48947
____ NA	24.04636	9,791.04	0.232	24.00451	24.10964	24.02493
____ NI	0.48695	1,295.83	0.125	0.48699	0.48632	0.48753
____ P	0.48997	216.32	0.572	0.48812	0.48860	0.49320
____ PB	0.49022	459.07	0.615	0.48909	0.48793	0.49364
____ S	0.49505	109.04	1.261	0.49832	0.49897	0.48785
____ SB	0.49780	267.99	0.539	0.49496	0.50029	0.49814
____ SE	0.47876	148.55	0.653	0.48112	0.47996	0.47521
____ SI	25.16590	1,452.49	0.831	25.20545	25.35255	24.93971
____ SN	0.48939	494.79	0.462	0.48973	0.48698	0.49147
____ SR	0.49462	328,313.33	1.088	0.50082	0.49178	0.49125
____ TI	0.49188	25,433.21	0.552	0.49485	0.49127	0.48952
____ TL	0.49165	243.84	0.332	0.48986	0.49203	0.49307
____ V	0.49265	7,705.68	0.886	0.49761	0.49095	0.48939
____ Y1	13424.51968	13,424.52	0.188	13451.46780	13420.67124	13401.42000
____ Y2A	329031.67108	329,031.67	0.642	326755.13585	329410.61962	330929.25779
____ Y2R	9310.73429	9,310.73	0.245	9332.72718	9312.32500	9287.15070
____ ZN	0.46865	3,484.77	0.176	0.46880	0.46776	0.46939
____ ZR	0.55335	455.08	0.354	0.55182	0.55266	0.55555

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 11

Date/Time: 07/20/2012 05:34

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00071	-33.12	111.902	0.00032	0.00162	0.00018
AL	0.00627	4.06	560.312	-0.03234	0.03632	0.01483
AS	0.00024	-1.21	714.376	-0.00092	-0.00060	0.00225
B	0.00131	25.42	39.266	0.00177	0.00140	0.00076
BA	-0.00002	127.33	152.359	-0.00005	-0.00002	0.00001
BE	0.00003	-196.02	21.758	0.00002	0.00002	0.00003
CA	0.00444	35.76	60.286	0.00137	0.00565	0.00630
CD	-0.00033	-13.77	107.004	-0.00002	-0.00071	-0.00025
CO	0.00011	-0.70	237.745	0.00041	0.00001	-0.00009
CR	-0.00054	10.15	29.613	-0.00036	-0.00062	-0.00064
CU	-0.00034	34.20	219.396	-0.00117	-0.00010	0.00025
FE	-0.00031	2.89	3110.193	-0.00038	0.00939	-0.00994
K	-0.02130	6.10	152.909	-0.01159	0.00531	-0.05763
LI	0.00075	26.61	88.129	0.00112	-0.00001	0.00114
MG	0.01026	13.81	44.504	0.00511	0.01189	0.01380
MN	0.00007	26.27	42.601	0.00005	0.00010	0.00005
MO	-0.00035	1.79	45.102	-0.00041	-0.00048	-0.00018
NA	-0.14466	106.74	11.608	-0.13239	-0.13779	-0.16379
NI	-0.00068	9.33	106.410	0.00008	-0.00137	-0.00075
P	0.00079	0.80	99.862	0.00024	0.00044	0.00169
PB	0.00055	-3.84	262.825	0.00120	-0.00110	0.00153
S	-0.00432	4.81	16.809	-0.00460	-0.00349	-0.00486
SB	-0.00078	-0.76	92.086	-0.00110	0.00004	-0.00128
SE	0.00162	0.01	64.706	0.00045	0.00247	0.00194
SI	0.01700	1.72	111.039	0.01499	0.03680	-0.00079
SN	0.00035	0.33	289.225	-0.00052	0.00144	0.00012
SR	-0.00012	60.75	17.872	-0.00010	-0.00013	-0.00014
TI	0.00001	18.05	267.621	0.00005	0.00001	-0.00002
TL	-0.00134	1.82	46.609	-0.00203	-0.00119	-0.00081
V	-0.00003	3.92	2573.354	-0.00044	0.00085	-0.00050
Y1	13611.28310	13,611.28	0.044	13618.04914	13608.76891	13607.03124
Y2A	331943.47802	331,943.48	0.266	332894.46653	331151.09344	331784.87409
Y2R	9258.52429	9,258.52	0.653	9292.67259	9294.20124	9188.69904
ZN	-0.00016	7.39	48.075	-0.00024	-0.00010	-0.00013
ZR	0.00047	2.10	386.697	0.00149	-0.00162	0.00154

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LANCASTER LABORATORIES

Run Name: 1220202T71 | Instrument ID: 16315

Tube: 12 | Date/Time: 07/20/2012 05:38

Sample Number: **PBS** | Class: **** | Batch: 122005708003

Initial Vol: 1.03 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00031	-39.43	166.746	-0.00029	0.00061	0.00062
AL	0.00528	4.19	586.615	-0.02876	0.03181	0.01280
AS	-0.00004	-1.34	2606.222	0.00001	-0.00101	0.00089
B	0.00183	30.10	28.050	0.00231	0.00129	0.00189
BA	0.00004	157.83	103.892	0.00001	0.00008	0.00002
BE	-0.00003	-224.08	61.014	-0.00004	-0.00004	-0.00001
CA	0.03825	50.30	10.409	0.04150	0.03381	0.03943
CD	0.00003	-12.55	1833.189	0.00043	-0.00057	0.00023
CO	-0.00017	-2.09	3.060	-0.00017	-0.00017	-0.00016
CR	-0.00005	15.30	516.307	0.00017	-0.00032	0.00000
CU	-0.00006	37.82	1103.773	-0.00022	-0.00065	0.00068
FE	0.00296	3.38	550.936	0.01394	0.01072	-0.01578
K	-0.09591	-1.41	29.838	-0.06506	-0.10108	-0.12160
LI	0.00034	26.81	736.356	-0.00252	0.00127	0.00228
MG	-0.00018	8.12	1141.865	-0.00261	0.00101	0.00105
MN	0.00068	57.43	4.143	0.00071	0.00066	0.00066
MO	-0.00061	1.00	33.269	-0.00050	-0.00085	-0.00049
NA	-0.17584	98.47	0.478	-0.17500	-0.17583	-0.17668
NI	-0.00055	9.82	119.194	0.00020	-0.00104	-0.00082
P	0.01574	7.59	8.759	0.01422	0.01606	0.01692
PB	0.00044	-4.00	505.399	0.00277	0.00018	-0.00163
S	0.00670	7.26	14.486	0.00618	0.00782	0.00610
SB	-0.00019	-0.45	431.888	0.00006	0.00048	-0.00113
SE	0.00247	0.28	38.470	0.00217	0.00171	0.00354
SI	0.03423	2.82	30.420	0.04274	0.02262	0.03732
SN	0.01812	18.84	6.457	0.01717	0.01776	0.01943
SR	0.00003	165.79	54.954	0.00005	0.00004	0.00001
TI	0.00016	26.07	51.264	0.00022	0.00020	0.00007
TL	-0.00031	2.37	352.239	0.00066	-0.00147	-0.00011
V	-0.00059	-5.05	67.530	-0.00060	-0.00019	-0.00099
Y1	13821.34314	13,821.34	0.148	13843.27670	13802.68967	13818.06305
Y2A	335453.55644	335,453.56	0.703	335090.37442	333296.96819	337973.32671
Y2R	9667.94232	9,667.94	0.123	9655.06297	9670.26379	9678.50020
ZN	0.00339	34.25	4.748	0.00345	0.00321	0.00351
ZR	0.00115	2.78	476.761	-0.00264	-0.00135	0.00743

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LANCASTER LABORATORIES

Run Name: 1220202T71 | Instrument ID: 16315

Tube: 13 | Date/Time: 07/20/2012 05:42

Sample Number: **LCSW** | Class: **** | Batch: 122005708003

Initial Vol: 1.00 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05019	795.99	0.116	0.05016	0.05026	0.05015
AL	1.97989	95.66	1.544	1.99036	2.00384	1.94546
AS	0.14927	59.49	1.310	0.14874	0.15144	0.14764
B	1.96505	16,455.47	0.505	1.96247	1.97600	1.95668
BA	2.01822	1,055,615.96	0.576	2.00701	2.03022	2.01742
BE	0.05162	24,188.71	0.695	0.05168	0.05194	0.05123
CA	4.09176	1,592.39	0.396	4.10159	4.10064	4.07304
CD	0.05074	188.53	1.279	0.05138	0.05008	0.05077
CO	0.51206	2,480.51	0.088	0.51245	0.51216	0.51157
CR	0.20376	2,085.11	0.552	0.20420	0.20460	0.20248
CU	0.25916	2,963.55	0.883	0.25890	0.26157	0.25702
FE	1.00614	114.26	1.410	1.01141	1.01695	0.99007
K	9.71577	1,013.32	1.258	9.85306	9.67536	9.61888
LI	1.00419	2,459.46	1.146	1.00824	1.01313	0.99121
MG	2.00651	1,210.06	0.552	2.01116	2.01452	1.99387
MN	0.51134	25,838.81	0.487	0.51158	0.51369	0.50874
MO	2.01647	6,250.39	0.037	2.01560	2.01690	2.01691
NA	9.80520	4,219.08	0.461	9.82381	9.83812	9.75367
NI	0.51551	1,390.79	0.025	0.51542	0.51566	0.51546
P	1.02246	456.21	0.315	1.02025	1.02616	1.02098
PB	0.15434	140.90	0.673	0.15451	0.15322	0.15528
S	1.10930	240.22	0.321	1.11182	1.11086	1.10523
SB	0.51039	277.16	0.248	0.51118	0.51106	0.50893
SE	0.14718	46.01	1.403	0.14599	0.14956	0.14599
SI	1.00463	60.55	0.681	0.99831	1.01189	1.00367
SN	4.05142	4,146.41	0.179	4.05409	4.05698	4.04320
SR	1.01330	681,529.83	0.604	1.01043	1.02032	1.00914
TI	1.01689	53,257.75	0.625	1.01593	1.02368	1.01107
TL	0.15484	80.35	0.615	0.15568	0.15504	0.15381
V	0.50925	8,009.58	0.562	0.51022	0.51151	0.50603
Y1	13588.81890	13,588.82	0.064	13598.77290	13583.09445	13584.58936
Y2A	333465.01546	333,465.02	0.546	333396.37177	331679.09211	335319.58250
Y2R	9604.14797	9,604.15	0.723	9558.87934	9569.52500	9684.03958
ZN	0.49451	3,690.92	0.153	0.49411	0.49538	0.49404
ZR	1.07090	906.81	0.835	1.06599	1.08122	1.06549

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LANCASTER LABORATORIES

Run Name: 1220202T71 | Instrument ID: 16315

Tube: 14 | Date/Time: 07/20/2012 05:46

Sample Number: **6721497** | Class: U*** | Batch: 122005708003

Initial Vol: 1.04 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	-0.00418	-400.07	8.320	-0.00437	-0.00378	-0.00439
____ AL	75.42097	3,277.92	0.413	75.58432	75.06192	75.61666
____ AS	0.07228	23.74	0.127	0.07223	0.07223	0.07239
____ B	0.07856	1,448.90	1.761	0.07935	0.07697	0.07937
____ BA	1.48415	737,935.57	0.844	1.47043	1.48703	1.49497
____ BE	0.00313	1,232.65	0.862	0.00312	0.00310	0.00316
____ CA	580.99485	203,618.43	0.343	582.00057	578.70168	582.28231
____ CD	0.00929	42.41	1.181	0.00917	0.00939	0.00932
____ CO	0.06661	340.69	0.654	0.06691	0.06611	0.06681
____ CR	0.48537	4,700.60	0.592	0.48453	0.48300	0.48856
____ CU	0.99123	10,947.15	0.758	0.98442	0.98997	0.99930
____ FE	210.64154	21,162.50	0.325	211.04858	209.85018	211.02586
____ K	20.76303	2,078.99	0.501	20.68686	20.72055	20.88167
____ LI	0.07365	230.93	2.289	0.07213	0.07546	0.07336
____ MG	278.97969	146,604.88	0.275	279.11820	278.15247	279.66841
____ MN	2.97682	142,879.60	0.752	2.96755	2.96057	3.00236
____ MO	0.01543	47.59	1.436	0.01555	0.01557	0.01518
____ NA	1.35695	704.66	0.538	1.36159	1.34853	1.36074
____ NI	0.23954	602.96	0.575	0.23842	0.24108	0.23912
____ P	4.17001	1,744.08	0.398	4.17770	4.18136	4.15098
____ PB	3.60361	3,199.88	0.191	3.61081	3.60294	3.59709
____ S	11.68932	2,324.52	0.546	11.74123	11.70864	11.61808
____ SB	0.02353	11.85	0.705	0.02346	0.02341	0.02372
____ SE	0.00843	-0.07	42.770	0.00427	0.01060	0.01043
____ SI	7.34306	422.11	1.341	7.45107	7.31991	7.25820
____ SN	0.12852	123.43	0.958	0.12988	0.12817	0.12750
____ SR	0.70196	448,807.35	1.157	0.70142	0.69411	0.71033
____ TI	4.36134	217,062.45	0.545	4.34999	4.34536	4.38868
____ TL	-0.00708	2.02	9.005	-0.00677	-0.00781	-0.00665
____ V	0.39829	6,094.82	0.491	0.39775	0.39666	0.40045
____ Y1	12753.12422	12,753.12	0.299	12782.43574	12766.91093	12710.02598
____ Y2A	316974.38727	316,974.39	0.758	315470.14305	319745.93293	315707.08583
____ Y2R	9261.55994	9,261.56	0.476	9275.05485	9297.27708	9212.34790
____ ZN	1.62003	11,517.00	0.371	1.62326	1.62373	1.61310
____ ZR	0.07667	64.20	3.238	0.07456	0.07604	0.07940

LANCASTER LABORATORIES

Run Name: 1220202T71 | Instrument ID: 16315

Tube: 15 | Date/Time: 07/20/2012 05:50

Sample Number: **6721497** | Class: UP** | Batch: 122005708003

Initial Vol: 1.04 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.01644	-23.78	4.612	0.01673	0.01701	0.01558
___ AL	74.84155	3,292.63	0.346	74.59012	74.82744	75.10709
___ AS	0.56672	209.26	0.627	0.56357	0.56602	0.57057
___ B	0.27443	2,977.25	0.496	0.27507	0.27287	0.27535
___ BA	1.49746	741,917.11	1.067	1.47906	1.50788	1.50543
___ BE	0.02239	9,846.43	0.538	0.02230	0.02235	0.02253
___ CA	570.11665	202,413.64	0.556	566.53836	571.24291	572.56869
___ CD	0.05589	214.72	1.117	0.05643	0.05521	0.05604
___ CO	0.15863	756.15	0.276	0.15910	0.15856	0.15823
___ CR	0.66605	6,422.29	0.776	0.66062	0.66663	0.67091
___ CU	1.47058	16,145.26	0.456	1.46496	1.46877	1.47801
___ FE	205.89305	20,965.97	0.424	204.88512	206.41718	206.37685
___ K	22.36915	2,266.42	0.098	22.37388	22.34524	22.38832
___ LI	1.12123	2,711.00	0.065	1.12073	1.12207	1.12090
___ MG	274.24513	146,114.75	0.604	272.36056	274.90627	275.46857
___ MN	2.97468	142,276.46	0.625	2.95965	2.96892	2.99548
___ MO	0.20746	604.89	0.320	0.20779	0.20789	0.20669
___ NA	3.38925	1,532.31	0.189	3.38607	3.39661	3.38508
___ NI	0.37356	937.76	0.300	0.37388	0.37231	0.37448
___ P	5.10154	2,129.93	0.198	5.10332	5.09068	5.11062
___ PB	4.00205	3,546.04	0.135	4.00421	3.99591	4.00604
___ S	11.42840	2,268.82	0.237	11.41196	11.41359	11.45963
___ SB	0.42656	217.90	0.449	0.42603	0.42497	0.42869
___ SE	0.80025	234.15	0.504	0.80047	0.79611	0.80416
___ SI	5.96840	347.37	1.263	5.92998	5.91996	6.05526
___ SN	0.69729	668.58	0.236	0.69907	0.69583	0.69697
___ SR	0.70386	448,469.09	0.346	0.70459	0.70115	0.70584
___ TI	4.34609	215,546.02	0.647	4.32489	4.33541	4.37798
___ TL	0.93293	436.73	0.215	0.93511	0.93117	0.93252
___ V	0.48439	7,358.60	0.554	0.48201	0.48386	0.48730
___ Y1	12731.17306	12,731.17	0.128	12715.10030	12747.56260	12730.85627
___ Y2A	315867.04879	315,867.05	0.826	317909.61155	316763.22355	312928.31126
___ Y2R	9374.15136	9,374.15	0.569	9418.60523	9388.87780	9314.97105
___ ZN	1.69709	12,033.27	0.137	1.69954	1.69489	1.69684
___ ZR	1.08272	894.82	1.485	1.06430	1.08991	1.09395

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LANCASTER LABORATORIES

Run Name: 1220202T71 | Instrument ID: 16315

Tube: 16 | Date/Time: 07/20/2012 05:54

Sample Number: **6721497** | Class: D*** | Batch: 122005708003

Initial Vol: 1.02 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00374	-354.10	7.598	-0.00406	-0.00353	-0.00362
AL	78.74807	3,423.10	0.234	78.91058	78.78577	78.54784
AS	0.05726	16.72	3.761	0.05508	0.05938	0.05732
B	0.06305	1,223.76	0.671	0.06321	0.06257	0.06336
BA	1.50883	756,142.57	0.239	1.51293	1.50739	1.50618
BE	0.00311	1,227.79	1.063	0.00315	0.00309	0.00309
CA	420.90030	149,495.58	0.242	422.07012	420.41005	420.22072
CD	0.00802	35.72	3.161	0.00824	0.00774	0.00809
CO	0.06275	330.58	0.476	0.06242	0.06298	0.06287
CR	0.26445	2,588.33	0.068	0.26438	0.26432	0.26466
CU	0.83203	9,218.72	0.406	0.83032	0.82985	0.83593
FE	181.69317	18,414.43	0.335	182.39195	181.27191	181.41565
K	17.75669	1,779.70	0.333	17.76573	17.81072	17.69362
LI	0.06805	208.54	4.490	0.06653	0.06605	0.07156
MG	201.34327	108,783.80	0.256	201.93834	201.06280	201.02868
MN	2.31912	112,200.28	0.308	2.31780	2.31274	2.32682
MO	0.00766	25.49	6.505	0.00813	0.00713	0.00771
NA	1.35264	703.13	1.636	1.37002	1.32773	1.36018
NI	0.20181	519.87	0.584	0.20270	0.20047	0.20225
P	3.80203	1,622.70	0.194	3.80923	3.80234	3.79452
PB	2.93594	2,662.54	0.218	2.93981	2.93946	2.92855
S	4.63202	943.25	0.255	4.64505	4.62194	4.62907
SB	0.01855	9.45	5.633	0.01782	0.01807	0.01974
SE	0.00752	-0.08	33.586	0.00612	0.01044	0.00601
SI	6.55592	377.03	0.890	6.60929	6.56483	6.49363
SN	0.11667	114.33	0.928	0.11582	0.11789	0.11629
SR	0.40701	262,356.53	0.257	0.40690	0.40602	0.40810
TI	4.44662	223,058.89	0.229	4.44063	4.44083	4.45839
TL	-0.00562	2.07	12.167	-0.00516	-0.00529	-0.00641
V	0.24686	3,838.50	0.118	0.24652	0.24698	0.24706
Y1	13013.88652	13,013.89	0.105	13003.93154	13029.52298	13008.20503
Y2A	319485.68593	319,485.69	0.292	319458.49934	320431.99139	318566.56707
Y2R	9264.22724	9,264.23	0.494	9213.42926	9302.31861	9276.93384
ZN	1.43099	10,376.47	0.149	1.43305	1.43112	1.42880
ZR	0.08606	71.87	3.985	0.08755	0.08213	0.08849

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LANCASTER LABORATORIES

Run Name: 1220202T71 | Instrument ID: 16315

Tube: 17 | Date/Time: 07/20/2012 05:58

Sample Number: **6721497** | Class: R*** | Batch: 122005708003

Initial Vol: 1.01 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.04920	408.27	0.438	0.04922	0.04940	0.04897
AL	125.17617	5,583.49	0.909	126.13151	123.91736	125.47966
AS	0.20881	82.31	0.463	0.20853	0.20801	0.20988
B	2.13542	18,415.27	0.601	2.12553	2.13080	2.14993
BA	3.98198	2,032,073.33	0.504	3.96342	3.97926	4.00326
BE	0.05821	26,670.90	0.705	0.05789	0.05807	0.05867
CA	176.20102	65,462.56	0.765	176.96412	174.64535	176.99357
CD	0.05941	241.69	0.535	0.05948	0.05969	0.05906
CO	0.57793	2,795.98	0.238	0.57923	0.57807	0.57649
CR	0.81973	8,138.54	0.713	0.81485	0.81812	0.82621
CU	1.45662	16,218.02	0.617	1.45010	1.45290	1.46687
FE	246.18484	25,104.90	0.675	247.84592	244.52211	246.18649
K	34.11362	3,498.24	0.723	34.24119	33.82950	34.27017
LI	1.11965	2,719.90	0.552	1.12452	1.11270	1.12173
MG	87.07946	50,170.38	0.881	87.56763	86.19512	87.47564
MN	4.65661	229,417.00	0.436	4.65059	4.64000	4.67923
MO	1.96642	5,961.74	0.191	1.96836	1.96880	1.96209
NA	12.56124	5,298.93	0.612	12.60674	12.47249	12.60447
NI	0.77692	2,033.48	0.310	0.77911	0.77731	0.77433
P	5.87486	2,560.76	0.287	5.87923	5.88909	5.85625
PB	4.27992	3,966.95	0.202	4.28590	4.28387	4.26999
S	5.63481	1,170.68	0.439	5.62024	5.66335	5.62084
SB	0.32556	172.53	0.710	0.32289	0.32699	0.32680
SE	0.15590	45.25	2.164	0.15263	0.15571	0.15937
SI	11.33833	668.04	2.305	11.57340	11.05684	11.38475
SN	3.96550	3,969.54	0.208	3.97231	3.96786	3.95634
SR	1.43926	944,499.85	0.357	1.44204	1.43334	1.44241
TI	7.16440	366,005.53	0.659	7.15183	7.12476	7.21662
TL	0.13603	73.62	2.285	0.13244	0.13786	0.13779
V	0.90893	14,116.74	0.749	0.90548	0.90454	0.91678
Y1	13291.02134	13,291.02	0.106	13296.19257	13301.74522	13275.12624
Y2A	325375.73931	325,375.74	0.673	326899.02253	326362.57455	322865.62085
Y2R	9499.92658	9,499.93	0.817	9412.12030	9559.28657	9528.37286
ZN	3.28526	24,127.95	0.234	3.28498	3.29309	3.27770
ZR	1.19097	997.32	0.707	1.20041	1.18422	1.18830

LANCASTER LABORATORIES

Run Name: 1220202T71 | Instrument ID: 16315

Tube: 18 | Date/Time: 07/20/2012 06:03

Sample Number: **6721497** | Class: M*** | Batch: 122005708003

Initial Vol: 1.02 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.04738	423.29	0.780	0.04703	0.04777	0.04734
___ AL	115.49308	5,075.79	0.638	115.83240	115.99965	114.64719
___ AS	0.20648	77.94	1.639	0.20776	0.20264	0.20903
___ B	2.10145	17,863.44	0.976	2.10771	2.07855	2.11810
___ BA	4.54930	2,301,374.31	1.071	4.57081	4.49354	4.58355
___ BE	0.05510	25,014.91	0.790	0.05514	0.05465	0.05552
___ CA	214.87232	78,411.39	0.507	215.62913	215.36522	213.62261
___ CD	0.05778	230.11	0.738	0.05773	0.05823	0.05738
___ CO	0.55811	2,664.74	0.288	0.55913	0.55893	0.55626
___ CR	0.61260	6,033.18	0.858	0.61574	0.60653	0.61553
___ CU	1.28501	14,211.11	0.894	1.29094	1.27177	1.29233
___ FE	216.26699	21,923.48	0.608	217.32539	216.67976	214.79581
___ K	32.74918	3,309.43	0.645	32.71409	32.97572	32.55774
___ LI	1.11246	2,665.32	0.856	1.12027	1.11527	1.10185
___ MG	115.24463	64,804.51	0.537	115.60132	115.60224	114.53032
___ MN	5.22026	254,952.33	0.639	5.23697	5.18183	5.24198
___ MO	1.94760	5,844.24	0.250	1.95169	1.94888	1.94222
___ NA	12.97273	5,386.85	0.481	13.00056	13.01641	12.90121
___ NI	0.78236	2,027.92	0.356	0.78441	0.78347	0.77919
___ P	4.68967	2,023.38	0.380	4.70861	4.68717	4.67323
___ PB	4.35924	3,996.78	0.189	4.35973	4.36721	4.35078
___ S	7.09038	1,456.57	0.207	7.10449	7.09149	7.07516
___ SB	0.34159	179.23	0.593	0.33947	0.34350	0.34181
___ SE	0.15642	45.40	2.936	0.15229	0.15560	0.16137
___ SI	12.51500	726.53	1.526	12.59135	12.65603	12.29763
___ SN	3.91406	3,877.91	0.202	3.91909	3.91814	3.90495
___ SR	1.45775	948,280.85	1.507	1.47695	1.43379	1.46252
___ TI	6.10781	309,318.29	1.102	6.16511	6.03373	6.12461
___ TL	0.13345	71.85	1.387	0.13301	0.13548	0.13186
___ V	0.81741	12,570.75	0.786	0.82052	0.81002	0.82168
___ Y1	13154.89833	13,154.90	0.066	13149.52444	13164.89940	13150.27113
___ Y2A	322558.94425	322,558.94	0.893	321396.62028	325837.48340	320442.72908
___ Y2R	9360.54256	9,360.54	0.350	9331.78457	9353.57712	9396.26597
___ ZN	2.68919	19,571.51	0.221	2.69492	2.68959	2.68307
___ ZR	1.20938	997.89	0.129	1.20790	1.20922	1.21101

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LANCASTER LABORATORIES

Run Name: 1220202T71 | Instrument ID: 16315

Tube: 19 | Date/Time: 07/20/2012 06:07

Sample Number: **6721497** | Class: UL** | Batch: 122005708003

Initial Vol: 1.04 | Final Vol: 100.00 | DF: 5.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	-0.00025	-108.66	328.335	0.00013	0.00031	-0.00117
____ AL	15.66435	677.23	0.712	15.65650	15.77965	15.55689
____ AS	0.02176	3.94	10.583	0.01917	0.02356	0.02256
____ B	0.02154	358.87	1.049	0.02143	0.02180	0.02139
____ BA	0.30942	157,002.43	0.430	0.30875	0.30856	0.31095
____ BE	0.00065	99.92	5.665	0.00067	0.00066	0.00061
____ CA	120.88749	43,601.51	0.256	121.20176	120.87824	120.58246
____ CD	0.00158	-1.88	14.813	0.00135	0.00182	0.00156
____ CO	0.01403	73.80	1.855	0.01373	0.01417	0.01420
____ CR	0.10620	1,060.83	0.069	0.10628	0.10613	0.10619
____ CU	0.20201	2,304.79	0.506	0.20086	0.20235	0.20282
____ FE	43.34238	4,529.76	0.237	43.39181	43.41123	43.22409
____ K	4.06263	409.76	2.984	4.15326	4.10969	3.92494
____ LI	0.01613	69.01	13.491	0.01762	0.01363	0.01713
____ MG	59.22238	33,283.02	0.377	59.35918	59.34358	58.96439
____ MN	0.63914	31,303.38	0.570	0.63815	0.63608	0.64317
____ MO	0.00367	13.95	5.377	0.00351	0.00389	0.00361
____ NA	0.05153	183.24	29.307	0.06346	0.05659	0.03455
____ NI	0.05170	144.29	0.446	0.05143	0.05181	0.05185
____ P	0.84111	367.07	0.535	0.84608	0.83990	0.83734
____ PB	0.77504	713.93	0.402	0.77813	0.77190	0.77510
____ S	2.28321	477.81	0.274	2.28844	2.28492	2.27626
____ SB	0.00540	2.58	37.303	0.00523	0.00348	0.00750
____ SE	0.00379	0.23	46.608	0.00530	0.00185	0.00421
____ SI	1.24747	71.68	1.462	1.25190	1.22743	1.26308
____ SN	0.02896	28.98	1.514	0.02854	0.02942	0.02894
____ SR	0.14666	95,742.75	0.409	0.14630	0.14633	0.14735
____ TI	0.91104	46,255.51	0.491	0.90930	0.90770	0.91612
____ TL	-0.00144	2.39	138.621	-0.00113	0.00038	-0.00358
____ V	0.08399	1,313.84	0.448	0.08436	0.08360	0.08402
____ Y1	13294.64762	13,294.65	0.240	13259.75233	13301.85585	13322.33467
____ Y2A	323266.57012	323,266.57	0.520	324040.25845	324421.80252	321337.64940
____ Y2R	9179.94726	9,179.95	0.060	9183.80886	9182.41627	9173.61666
____ ZN	0.33228	2,469.36	0.285	0.33328	0.33215	0.33140
____ ZR	0.01748	15.83	19.296	0.01912	0.01973	0.01360

8SX73 2393

LANCASTER LABORATORIES

Run Name: 1220202T71 | Instrument ID: 16315

Tube: 20 | Date/Time: 07/20/2012 06:11

Sample Number: **6721503** | Class: **** | Batch: 122005708003

Initial Vol: 1.02 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	-0.00274	-429.95	22.145	-0.00323	-0.00206	-0.00292
____ AL	130.27934	5,824.86	0.129	130.23282	130.13884	130.46637
____ AS	0.03457	11.76	12.390	0.03239	0.03181	0.03950
____ B	0.04032	1,279.78	0.834	0.04002	0.04027	0.04068
____ BA	1.72082	890,320.46	0.277	1.72407	1.72303	1.71535
____ BE	0.00342	1,426.95	0.667	0.00339	0.00344	0.00342
____ CA	88.75235	33,312.35	0.187	88.58172	88.76228	88.91303
____ CD	0.00701	37.74	5.915	0.00743	0.00660	0.00699
____ CO	0.08598	508.73	0.324	0.08585	0.08629	0.08578
____ CR	0.33835	3,414.59	0.286	0.33725	0.33873	0.33907
____ CU	0.51814	5,602.52	0.322	0.51621	0.51911	0.51910
____ FE	232.76721	23,898.25	0.129	233.10006	232.68280	232.51876
____ K	35.18680	3,618.11	0.582	35.03484	35.10576	35.41981
____ LI	0.06712	192.24	4.714	0.06348	0.06920	0.06869
____ MG	59.26680	34,564.26	0.145	59.17835	59.27238	59.34965
____ MN	2.69103	134,411.54	0.176	2.68573	2.69489	2.69248
____ MO	0.00691	23.93	3.335	0.00713	0.00694	0.00667
____ NA	1.41259	747.60	0.922	1.40689	1.40338	1.42749
____ NI	0.31654	834.34	0.263	0.31716	0.31560	0.31687
____ P	7.75471	3,402.63	0.293	7.77741	7.75480	7.73193
____ PB	0.72006	690.11	0.208	0.72061	0.72121	0.71837
____ S	3.55660	746.00	0.423	3.56908	3.56085	3.53988
____ SB	0.01193	6.20	14.663	0.01130	0.01391	0.01059
____ SE	0.00770	-0.61	80.786	0.00211	0.00659	0.01440
____ SI	8.26128	488.37	0.999	8.33464	8.27726	8.17194
____ SN	0.04788	48.23	1.404	0.04758	0.04741	0.04865
____ SR	0.37945	252,534.97	0.037	0.37937	0.37937	0.37961
____ TI	10.52082	544,847.58	0.395	10.50000	10.49385	10.56862
____ TL	-0.00519	3.10	32.676	-0.00430	-0.00715	-0.00413
____ V	0.35445	5,734.25	0.162	0.35427	0.35509	0.35399
____ Y1	13381.30806	13,381.31	0.197	13371.35225	13361.42324	13411.14870
____ Y2A	329843.85355	329,843.85	0.093	330169.98012	329803.59510	329557.98542
____ Y2R	9526.38098	9,526.38	0.450	9575.65000	9506.03431	9497.45864
____ ZN	0.62720	4,868.00	0.361	0.62926	0.62757	0.62477
____ ZR	0.04865	42.55	9.789	0.04685	0.05405	0.04505

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 21

Date/Time: 07/20/2012 06:15

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.48632	7,161.91	0.612	0.48498	0.48425	0.48973
___ AL	24.24326	1,039.11	0.233	24.17978	24.26167	24.28834
___ AS	0.48024	187.16	0.332	0.48090	0.47842	0.48139
___ B	0.47152	3,959.95	0.597	0.47015	0.46966	0.47476
___ BA	0.50336	257,267.43	0.609	0.50143	0.50175	0.50689
___ BE	0.48518	223,554.87	0.306	0.48452	0.48413	0.48688
___ CA	24.96025	9,025.38	0.429	24.85741	24.95204	25.07129
___ CD	0.49748	1,935.22	0.229	0.49706	0.49877	0.49661
___ CO	0.48554	2,318.51	0.109	0.48557	0.48605	0.48499
___ CR	0.49423	4,918.33	0.379	0.49420	0.49238	0.49612
___ CU	0.48776	5,522.68	0.817	0.48544	0.48548	0.49236
___ FE	24.33857	2,538.11	0.438	24.23048	24.34147	24.44375
___ K	24.55503	2,416.19	0.937	24.36475	24.48955	24.81080
___ LI	0.48500	1,140.45	0.396	0.48689	0.48304	0.48507
___ MG	24.49108	13,816.73	0.685	24.33815	24.46449	24.67061
___ MN	0.49356	24,362.42	0.304	0.49463	0.49185	0.49421
___ MO	0.48702	1,493.14	0.231	0.48601	0.48823	0.48681
___ NA	24.18783	9,632.37	0.420	24.10440	24.15816	24.30093
___ NI	0.48564	1,292.07	0.317	0.48604	0.48694	0.48394
___ P	0.48808	215.43	0.412	0.48932	0.48915	0.48576
___ PB	0.48754	456.43	0.423	0.48526	0.48928	0.48808
___ S	0.49301	108.58	0.640	0.48960	0.49361	0.49583
___ SB	0.49297	265.33	0.385	0.49238	0.49144	0.49510
___ SE	0.47706	147.98	0.895	0.48198	0.47466	0.47453
___ SI	25.06237	1,414.82	1.066	24.76061	25.15732	25.26917
___ SN	0.49182	497.13	0.354	0.49267	0.49297	0.48982
___ SR	0.49509	325,328.56	0.646	0.49600	0.49153	0.49772
___ TI	0.49912	25,547.88	0.501	0.49829	0.49713	0.50193
___ TL	0.49103	243.48	0.528	0.48870	0.49055	0.49382
___ V	0.49575	7,676.48	0.500	0.49606	0.49312	0.49805
___ Y1	13421.22545	13,421.23	0.201	13451.36133	13412.90533	13399.40969
___ Y2A	325718.45587	325,718.46	0.254	324774.90040	326058.56528	326321.90192
___ Y2R	9107.35144	9,107.35	0.788	9184.80431	9094.20000	9043.05000
___ ZN	0.46810	3,479.86	0.113	0.46863	0.46810	0.46757
___ ZR	0.55389	445.58	0.716	0.55433	0.54972	0.55762

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 22

Date/Time: 07/20/2012 06:19

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.00053	-35.92	56.697	0.00043	0.00087	0.00029
____ AL	-0.01171	3.36	178.709	-0.03560	0.00344	-0.00298
____ AS	-0.00150	-1.92	159.404	-0.00385	-0.00156	0.00092
____ B	0.00180	29.57	39.388	0.00214	0.00227	0.00099
____ BA	0.00019	234.53	12.700	0.00021	0.00018	0.00017
____ BE	0.00001	-205.02	103.460	0.00000	0.00002	0.00001
____ CA	0.00684	37.53	109.212	0.00134	0.00384	0.01535
____ CD	-0.00041	-14.17	28.896	-0.00049	-0.00046	-0.00027
____ CO	0.00012	-0.67	119.983	0.00004	0.00003	0.00028
____ CR	-0.00028	12.88	29.554	-0.00037	-0.00026	-0.00020
____ CU	-0.00043	33.27	13.076	-0.00037	-0.00047	-0.00045
____ FE	-0.01002	1.90	110.982	0.00190	-0.02012	-0.01185
____ K	-0.02192	6.17	139.409	-0.05641	-0.01116	0.00181
____ LI	0.00049	26.62	978.986	0.00577	-0.00344	-0.00087
____ MG	-0.00102	7.47	352.878	-0.00511	0.00041	0.00164
____ MN	0.00027	36.53	16.870	0.00028	0.00031	0.00022
____ MO	-0.00025	2.13	109.349	-0.00023	-0.00054	0.00001
____ NA	-0.26687	59.47	5.547	-0.26115	-0.28368	-0.25577
____ NI	-0.00031	10.38	231.327	0.00007	-0.00114	0.00014
____ P	0.00093	0.87	41.115	0.00116	0.00049	0.00114
____ PB	0.00101	-3.43	87.428	0.00000	0.00139	0.00164
____ S	-0.00700	4.27	37.193	-0.00927	-0.00416	-0.00757
____ SB	-0.00140	-1.11	159.322	0.00117	-0.00283	-0.00255
____ SE	0.00134	-0.08	198.224	-0.00093	0.00425	0.00068
____ SI	0.00616	1.12	348.136	0.00123	0.02965	-0.01239
____ SN	-0.00001	-0.03	5695.522	0.00052	-0.00051	-0.00003
____ SR	-0.00007	97.78	18.387	-0.00006	-0.00006	-0.00008
____ TI	0.00065	51.25	24.338	0.00083	0.00054	0.00058
____ TL	-0.00148	1.76	54.464	-0.00137	-0.00073	-0.00233
____ V	0.00033	9.72	98.239	0.00036	0.00065	-0.00001
____ Y1	13687.01068	13,687.01	0.158	13709.40769	13666.24142	13685.38292
____ Y2A	333311.40932	333,311.41	0.604	331025.26508	334810.38767	334098.57522
____ Y2R	9482.90619	9,482.91	0.102	9475.10996	9493.74252	9479.86611
____ ZN	-0.00009	7.92	96.616	-0.00016	-0.00012	0.00001
____ ZR	0.00075	2.38	251.182	0.00287	-0.00068	0.00005

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 23

Date/Time: 07/20/2012 06:23

Sample Number: **LLC**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00514	35.80	13.181	0.00526	0.00442	0.00576
AL	0.21142	13.23	18.902	0.17255	0.20931	0.25239
AS	0.01738	5.66	11.733	0.01942	0.01737	0.01534
B	0.05335	455.00	0.879	0.05281	0.05360	0.05365
BA	0.00520	2,817.55	1.008	0.00515	0.00522	0.00525
BE	0.00489	2,070.03	0.594	0.00486	0.00490	0.00492
CA	0.20335	111.02	5.205	0.19471	0.20018	0.21515
CD	0.00452	5.48	7.943	0.00415	0.00455	0.00487
CO	0.00501	23.08	5.978	0.00499	0.00472	0.00531
CR	0.01433	158.85	3.219	0.01456	0.01462	0.01379
CU	0.01003	151.40	5.722	0.00963	0.01069	0.00978
FE	0.19807	24.55	5.952	0.20474	0.20502	0.18446
K	0.42452	51.61	4.887	0.44712	0.42009	0.40634
LI	0.02009	73.32	5.935	0.01879	0.02113	0.02036
MG	0.09775	65.71	3.779	0.09725	0.09433	0.10167
MN	0.00546	294.52	2.104	0.00544	0.00536	0.00559
MO	0.00961	32.71	1.048	0.00964	0.00968	0.00949
NA	0.71917	460.06	1.265	0.72824	0.71004	0.71923
NI	0.00992	37.70	1.787	0.01012	0.00983	0.00980
P	0.09756	44.00	0.643	0.09794	0.09790	0.09684
PB	0.01500	9.86	15.159	0.01279	0.01487	0.01733
S	0.51302	114.37	0.715	0.51204	0.51709	0.50995
SB	0.02037	10.80	8.981	0.01965	0.01901	0.02245
SE	0.02224	6.53	11.320	0.02034	0.02128	0.02510
SI	0.23541	14.54	5.232	0.23009	0.22664	0.24949
SN	0.02106	21.58	3.993	0.02119	0.02184	0.02017
SR	0.00498	3,440.51	0.739	0.00498	0.00494	0.00502
TI	0.01071	569.82	1.024	0.01059	0.01073	0.01081
TL	0.02974	17.20	5.819	0.03172	0.02899	0.02852
V	0.00503	82.75	5.183	0.00474	0.00523	0.00512
Y1	13613.02443	13,613.02	0.009	13613.93431	13613.46131	13611.67766
Y2A	328605.48567	328,605.49	0.701	326812.04440	331201.54076	327802.87185
Y2R	9453.36014	9,453.36	0.829	9535.31524	9445.59353	9379.17166
ZN	0.01888	149.32	0.444	0.01898	0.01884	0.01883
ZR	0.03632	31.96	6.676	0.03386	0.03870	0.03639

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 24

Date/Time: 07/20/2012 06:27

Sample Number: **ICSA**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	-0.00287	-349.30	28.157	-0.00370	-0.00209	-0.00283
___ AL	502.75449	21,003.21	0.422	504.82947	502.84064	500.59335
___ AS	0.00253	-3.17	14.256	0.00290	0.00249	0.00218
___ B	0.02166	900.67	1.783	0.02131	0.02160	0.02208
___ BA	0.00045	335.62	6.655	0.00048	0.00042	0.00045
___ BE	-0.00031	-317.82	4.591	-0.00030	-0.00032	-0.00030
___ CA	506.99922	171,038.12	0.235	508.14729	507.08221	505.76816
___ CD	0.00042	8.06	123.362	0.00098	-0.00005	0.00034
___ CO	0.00157	5.68	27.793	0.00177	0.00107	0.00186
___ CR	0.00314	42.70	11.667	0.00313	0.00351	0.00278
___ CU	-0.00540	130.68	18.038	-0.00612	-0.00580	-0.00429
___ FE	199.58197	19,246.75	0.497	200.38954	199.88156	198.47481
___ K	-0.03669	4.37	202.027	-0.02648	-0.11538	0.03180
___ LI	-0.00040	51.26	1015.837	0.00322	-0.00476	0.00034
___ MG	489.09112	227,387.05	0.427	490.86968	489.61394	486.78973
___ MN	0.00384	194.60	3.262	0.00386	0.00371	0.00395
___ MO	-0.00053	1.11	49.522	-0.00083	-0.00047	-0.00031
___ NA	-0.16465	94.51	7.563	-0.17640	-0.15160	-0.16595
___ NI	0.00040	3.59	186.134	0.00026	-0.00026	0.00122
___ P	0.02058	8.65	1.489	0.02035	0.02047	0.02093
___ PB	0.00708	81.29	30.844	0.00632	0.00955	0.00539
___ S	0.01032	7.10	17.793	0.00975	0.01237	0.00883
___ SB	0.00308	1.21	188.541	-0.00241	0.00916	0.00249
___ SE	-0.00045	-2.84	661.499	-0.00306	0.00276	-0.00104
___ SI	0.03733	2.76	34.844	0.03049	0.02918	0.05234
___ SN	0.00158	1.44	108.028	0.00355	0.00068	0.00051
___ SR	0.00252	1,649.33	0.967	0.00255	0.00250	0.00252
___ TI	-0.00092	-27.48	15.372	-0.00108	-0.00086	-0.00082
___ TL	0.00772	5.66	41.766	0.01011	0.00405	0.00901
___ V	-0.00020	38.05	138.526	-0.00008	-0.00051	-0.00001
___ Y1	12211.35314	12,211.35	0.163	12224.35848	12188.45134	12221.24958
___ Y2A	299133.21168	299,133.21	0.251	298278.78235	299440.02986	299680.82283
___ Y2R	8861.16285	8,861.16	0.252	8857.68733	8840.77529	8885.02594
___ ZN	-0.00758	169.81	3.563	-0.00788	-0.00746	-0.00739
___ ZR	0.00886	8.54	72.894	0.00895	0.01527	0.00236

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 25

Date/Time: 07/20/2012 06:31

Sample Number: **ICSAB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.21635	2,638.95	0.822	0.21453	0.21809	0.21645
____ AL	499.62793	21,126.85	0.105	500.17571	499.13297	499.57512
____ AS	0.10980	35.45	1.590	0.10785	0.11038	0.11119
____ B	0.01949	877.08	1.682	0.01913	0.01957	0.01978
____ BA	0.54003	254,008.35	0.427	0.53740	0.54097	0.54171
____ BE	0.51095	216,681.68	0.366	0.50880	0.51216	0.51190
____ CA	502.88871	171,772.63	0.142	503.71258	502.44067	502.51286
____ CD	0.98019	3,489.99	0.514	0.98060	0.97496	0.98500
____ CO	0.48646	2,107.24	0.059	0.48612	0.48660	0.48664
____ CR	0.49366	4,521.17	0.602	0.49063	0.49658	0.49376
____ CU	0.52865	5,674.66	0.309	0.52677	0.52967	0.52952
____ FE	198.11095	19,345.66	0.186	198.48594	198.09862	197.74830
____ K	0.01392	9.30	138.378	0.01516	0.03252	-0.00593
____ LI	-0.00236	47.21	78.242	-0.00444	-0.00092	-0.00172
____ MG	483.83036	228,141.86	0.342	485.68020	482.48322	483.32764
____ MN	0.49108	22,308.82	0.489	0.48872	0.49352	0.49101
____ MO	-0.00103	-0.26	39.382	-0.00075	-0.00149	-0.00084
____ NA	-0.13138	108.50	5.125	-0.13745	-0.12414	-0.13255
____ NI	0.94760	2,275.56	0.172	0.94666	0.94667	0.94948
____ P	0.02091	9.17	2.009	0.02133	0.02092	0.02049
____ PB	0.05063	117.81	2.687	0.05104	0.05173	0.04911
____ S	0.00594	6.26	50.909	0.00606	0.00286	0.00891
____ SB	0.62730	307.35	0.657	0.62994	0.62942	0.62255
____ SE	0.05134	11.89	3.559	0.05244	0.04923	0.05234
____ SI	0.05785	3.93	17.270	0.04697	0.06661	0.05999
____ SN	0.00056	0.50	253.466	-0.00083	0.00051	0.00200
____ SR	0.00250	1,640.41	0.495	0.00250	0.00249	0.00252
____ TI	-0.00080	-15.25	14.456	-0.00071	-0.00075	-0.00093
____ TL	0.10385	49.93	3.215	0.10234	0.10767	0.10153
____ V	0.51253	7,349.70	0.279	0.51114	0.51400	0.51246
____ Y1	12199.16480	12,199.16	0.193	12177.42236	12195.90703	12224.16500
____ Y2A	299770.46008	299,770.46	0.443	301266.58925	298731.33709	299313.45388
____ Y2R	8968.93635	8,968.94	0.198	8949.77500	8972.10000	8984.93404
____ ZN	1.00289	6,917.77	0.033	1.00257	1.00288	1.00323
____ ZR	0.00824	8.17	19.862	0.00900	0.00935	0.00636

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 26

Date/Time: 07/20/2012 06:35

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.49198	7,229.06	0.350	0.49096	0.49397	0.49101
____ AL	24.58753	1,083.93	0.641	24.71699	24.41196	24.63364
____ AS	0.48851	189.23	0.539	0.49153	0.48674	0.48724
____ B	0.47327	3,965.96	0.265	0.47186	0.47369	0.47426
____ BA	0.50706	258,590.50	0.272	0.50598	0.50861	0.50658
____ BE	0.48791	224,325.65	0.405	0.48585	0.48978	0.48810
____ CA	25.05130	9,317.02	0.267	25.07714	25.10143	24.97532
____ CD	0.49148	1,899.86	0.059	0.49181	0.49124	0.49140
____ CO	0.48743	2,313.15	0.046	0.48752	0.48718	0.48760
____ CR	0.49461	4,911.33	0.306	0.49293	0.49587	0.49502
____ CU	0.49007	5,536.64	0.411	0.48777	0.49095	0.49150
____ FE	24.44056	2,621.53	0.336	24.35078	24.51153	24.45937
____ K	24.30057	2,459.67	0.257	24.36213	24.23704	24.30255
____ LI	0.48841	1,181.08	0.281	0.48734	0.48996	0.48793
____ MG	24.70450	14,334.68	0.197	24.66226	24.75771	24.69353
____ MN	0.49436	24,348.87	0.600	0.49102	0.49538	0.49668
____ MO	0.49019	1,493.49	0.342	0.48828	0.49087	0.49141
____ NA	24.28507	9,946.90	0.073	24.27284	24.30533	24.27704
____ NI	0.68808	1,812.19	45.768	1.05170	0.50430	0.50822
____ P	0.49038	215.19	0.401	0.49259	0.48972	0.48882
____ PB	0.48886	454.91	0.802	0.49208	0.48449	0.49000
____ S	0.51947	113.39	3.418	0.53945	0.51347	0.50550
____ SB	0.50106	268.03	1.081	0.49516	0.50582	0.50219
____ SE	0.48731	150.23	0.725	0.48756	0.49070	0.48365
____ SI	25.46583	1,478.74	0.334	25.36889	25.52757	25.50103
____ SN	0.49096	493.16	0.175	0.49158	0.49131	0.48998
____ SR	0.50375	330,298.11	0.272	0.50264	0.50528	0.50332
____ TI	0.49885	25,478.72	0.319	0.49705	0.50007	0.49944
____ TL	0.49224	242.55	0.183	0.49305	0.49239	0.49127
____ V	0.50014	7,727.63	0.208	0.49929	0.50130	0.49984
____ Y1	13337.53637	13,337.54	0.528	13261.41448	13400.48530	13350.70933
____ Y2A	325010.08007	325,010.08	0.407	325277.75017	323574.70120	326177.78884
____ Y2R	9367.52971	9,367.53	0.428	9349.74093	9339.45000	9413.39820
____ ZN	0.52697	3,890.55	16.680	0.62846	0.47557	0.47687
____ ZR	0.54539	451.31	0.294	0.54706	0.54387	0.54524

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LANCASTER LABORATORIES

Run Name: 1220202T71

Instrument ID: 16315

Tube: 27

Date/Time: 07/20/2012 06:39

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00010	-41.92	650.764	0.00004	-0.00051	0.00077
AL	0.00452	4.08	308.188	-0.00903	0.00380	0.01878
AS	-0.00182	-2.02	86.928	-0.00003	-0.00303	-0.00242
B	0.00051	18.52	33.990	0.00038	0.00044	0.00070
BA	0.00003	148.85	172.382	-0.00002	0.00007	0.00003
BE	0.00001	-200.08	143.717	0.00003	-0.00001	0.00001
CA	0.00596	37.18	174.134	0.01466	0.00873	-0.00552
CD	-0.00027	-13.40	43.277	-0.00014	-0.00036	-0.00030
CO	-0.00014	-1.88	209.130	0.00002	0.00003	-0.00047
CR	-0.00035	11.97	43.110	-0.00019	-0.00048	-0.00038
CU	-0.00030	34.28	159.031	-0.00021	-0.00082	0.00012
FE	-0.00119	2.86	562.668	0.00082	-0.00864	0.00426
K	0.01107	9.53	453.439	0.02524	-0.04467	0.05264
LI	-0.00004	25.38	3036.205	-0.00050	0.00609	-0.00570
MG	0.00732	12.39	3.341	0.00736	0.00705	0.00753
MN	0.00009	27.40	69.974	0.00009	0.00003	0.00016
MO	-0.00020	2.25	124.092	-0.00011	-0.00001	-0.00048
NA	-0.24134	69.82	4.548	-0.23639	-0.23372	-0.25392
NI	0.00844	33.42	5.807	0.00794	0.00892	0.00845
P	0.00073	0.77	106.525	0.00145	0.00082	-0.00009
PB	0.00048	-3.86	355.021	0.00144	-0.00149	0.00150
S	-0.00713	4.18	22.128	-0.00724	-0.00549	-0.00864
SB	0.00062	0.00	186.437	-0.00038	0.00187	0.00036
SE	0.00319	0.50	64.772	0.00261	0.00549	0.00148
SI	0.01409	1.59	169.779	0.02433	0.03117	-0.01325
SN	0.00072	0.71	37.134	0.00073	0.00098	0.00045
SR	-0.00011	67.54	19.273	-0.00013	-0.00009	-0.00011
TI	0.00026	30.62	33.583	0.00021	0.00036	0.00021
TL	0.00048	2.69	250.879	-0.00088	0.00095	0.00136
V	0.00006	5.35	615.676	0.00044	0.00008	-0.00033
Y1	13483.66941	13,483.67	0.163	13487.71956	13459.94401	13503.34466
Y2A	328696.09787	328,696.10	0.703	331030.40093	326411.68659	328646.20610
Y2R	9473.76819	9,473.77	0.434	9513.21828	9476.96843	9431.11787
ZN	0.00242	26.54	8.034	0.00261	0.00242	0.00222
ZR	0.00014	1.88	1668.546	0.00039	0.00238	-0.00235

ASX73 2311

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ICP-AES Run Data Report

1220207T70

Reviewed By
John W Yanzuk

Reviewed Date
07/20/2012 8:06PM

Data File Name 1220207T70.TXT
Run Name: 1220207T70

Verified By:
Deborah A Krady

Verified Date
07/25/2012 10:24AM

Method Reference Name(s):
SW-846 6010B

Analyst Employee: 1496

Instrument Parameters:

Individual Integration Time: 10.00 sec Total Integration Time: 30.00 sec

Element	Analyte Name	Wavelength Value
AG	Silver	328.06
AL	Aluminum	308.21
AS	Arsenic	189.04
AU	Gold	242.80
B	Boron	249.67
BA	Barium	455.40
BE	Beryllium	313.04
CA	Calcium	317.93
CD	Cadmium	226.50
CO	Cobalt	228.62
CR	Chromium	267.72
CU	Copper	327.40
FE	Iron	261.19
K	Potassium	766.49
LI	Lithium	670.78
MG	Magnesium	285.21
MN	Manganese	257.61
MO	Molybdenum	202.03
NA	Sodium	589.59
NI	Nickel	231.60
P	Phosphorus	177.49
PB	Lead	220.35
SB	Antimony	206.83
SE	Selenium	196.09
SI	Silicon	251.60
SN	Tin	189.99
SR	Strontium	421.55
TI	Titanium	334.94
TL	Thallium	190.86
V	Vanadium	292.40
Y1	Yttrium	224.31
Y2	Yttrium	371.03
ZN	Zinc	213.86
ZR	Zirconium	339.19

The TRACE ICP utilizes Yttrium as an internal standard to compensate for fluctuations in nebulization and plasma conditions. All Yttrium readings are expressed in counts.

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 1

Date/Time: 07/20/2012 17:39

Sample Number: **S0**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	0.000	0.00087	41.605	0.00090	0.00121	0.00049
AL	0.000	0.06475	1.328	0.06574	0.06419	0.06432
AS	0.000	-0.00928	2.342	-0.00903	-0.00938	-0.00942
B	0.000	0.00004	7.783	0.00004	0.00004	0.00004
BA	0.000	0.00018	19.560	0.00014	0.00019	0.00020
BE	0.000	0.00277	59.828	0.00338	0.00403	0.00089
CA	0.000	0.00460	1.892	0.00465	0.00465	0.00450
CD	0.000	-0.12866	5.448	-0.13671	-0.12392	-0.12534
CO	0.000	-0.02614	14.743	-0.02721	-0.02187	-0.02935
CR	0.000	0.00000	327.802	-0.00001	0.00000	0.00001
CU	0.000	0.01129	4.783	0.01066	0.01159	0.01161
FE	0.000	0.00000	19.629	0.00000	0.00000	0.00000
K	0.000	0.03290	70.819	0.05385	0.00781	0.03702
LI	0.000	0.00097	38.407	0.00113	0.00123	0.00054
MG	0.000	0.00003	228.043	0.00007	0.00005	-0.00004
MN	0.000	0.00007	367.541	-0.00021	0.00012	0.00030
MO	0.000	-0.00155	267.257	-0.00629	0.00027	0.00137
NA	0.000	0.00185	16.864	0.00201	0.00204	0.00149
NI	0.000	0.08245	2.281	0.08408	0.08289	0.08039
P	0.000	-0.00038	17.957	-0.00045	-0.00035	-0.00032
PB	0.000	0.04131	9.823	0.04499	0.03696	0.04199
S	0.000	0.00046	11.167	0.00041	0.00051	0.00047
SB	0.000	0.00002	397.982	0.00000	0.00011	-0.00005
SE	0.000	0.02190	4.415	0.02080	0.02231	0.02261
SI	0.000	0.00006	122.316	0.00002	0.00015	0.00001
SN	0.000	0.00805	15.262	0.00730	0.00947	0.00738
SR	0.000	0.00002	10.841	0.00002	0.00002	0.00002
TI	0.000	0.00249	39.655	0.00158	0.00235	0.00355
TL	0.000	-0.05908	5.434	-0.05870	-0.06246	-0.05608
V	0.000	-0.00116	27.425	-0.00152	-0.00095	-0.00099
Y1	0.000	7620.78582	0.203	7633.16024	7625.74618	7603.45103
Y2A	0.000	473353.74046	0.557	471842.38697	471819.48138	476399.35302
Y2R	0.000	32869.70048	0.375	32940.33287	32941.41515	32727.35341
ZN	0.000	0.14121	5.835	0.13832	0.15051	0.13481
ZR	0.000	-0.00037	21.878	-0.00030	-0.00046	-0.00035

ASX73 2313

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 2

Date/Time: 07/20/2012 17:43

Sample Number: **S1**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AL	50.000	10.55602	0.160	10.57490	10.54248	10.55068
CA	50.000	1.41032	1.272	1.41646	1.42438	1.39011
FE	50.000	0.03773	0.724	0.03801	0.03772	0.03747
K	50.000	32.00494	0.986	32.20493	32.16859	31.64129
MG	50.000	2.54029	1.134	2.55685	2.55700	2.50702
NA	50.000	1.54667	1.462	1.56382	1.55514	1.52105
SI	50.000	0.28603	1.708	0.28865	0.28905	0.28039
Y2A	50.000	459282.25842	0.319	457701.77859	460590.59176	459554.40492
Y2R	50.000	32396.07008	0.664	32331.29238	32220.95662	32635.96123

ASX73 2314

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 3

Date/Time: 07/20/2012 17:47

Sample Number: **S2**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
AG	1.000	2.09762	1.951	2.07629	2.14481	2.07177
AS	1.000	1.13411	0.142	1.13563	1.13243	1.13429
B	1.000	0.02007	1.855	0.01985	0.02050	0.01987
BA	1.000	0.82535	1.481	0.81800	0.83945	0.81858
BE	1.000	46.95076	2.069	46.25060	48.05981	46.54188
CD	1.000	83.92110	0.424	83.51833	84.05237	84.19259
CO	1.000	19.23765	0.393	19.16558	19.23110	19.31628
CU	1.000	1.46146	1.882	1.44484	1.49322	1.44633
LI	1.000	0.27505	0.541	0.27610	0.27334	0.27569
MN	1.000	7.57290	1.708	7.50416	7.72208	7.49247
NI	1.000	9.36208	0.575	9.32462	9.33781	9.42380
P	1.000	0.04253	0.446	0.04271	0.04253	0.04233
PB	1.000	6.01318	0.452	5.98523	6.01482	6.03950
SE	1.000	1.79179	0.508	1.78224	1.80039	1.79273
SR	1.000	1.07829	2.326	1.06921	1.10664	1.05901
TL	1.000	3.80663	0.354	3.81584	3.81288	3.79117
Y1	1.000	7459.06798	0.346	7480.34216	7466.52462	7430.33715
Y2A	1.000	465918.74325	1.817	468804.64499	456387.74934	472563.83543
Y2R	1.000	32372.36793	0.323	32285.49272	32488.62186	32342.98921
ZN	1.000	89.27247	0.398	88.88878	89.33796	89.59068

ASX73 2315

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 4

Date/Time: 07/20/2012 17:51

Sample Number: **S3**

ELEMENT	CONC (ppm)	AVERAGE INTENSITY	% RSD	INTEGRATIONS #1	#2	#3
CR	1.000	0.02539	0.878	0.02564	0.02530	0.02522
MO	1.000	22.49097	0.040	22.49461	22.49760	22.48070
S	1.000	0.01067	0.328	0.01063	0.01069	0.01070
SB	1.000	0.06637	0.366	0.06664	0.06632	0.06616
SN	1.000	2.57263	0.027	2.57189	2.57274	2.57327
TI	1.000	6.73832	0.899	6.80536	6.72207	6.68753
V	1.000	1.18839	1.164	1.20420	1.18243	1.17853
Y1	1.000	7675.22820	0.150	7684.32143	7679.12168	7662.24148
Y2A	1.000	477632.85626	0.811	473253.53351	479042.75050	480602.28477
Y2R	1.000	32811.28669	0.789	32566.48703	32785.20592	33082.16713
ZR	1.000	0.05235	0.198	0.05225	0.05246	0.05234

ASX73 2396

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 5

Date/Time: 07/20/2012 17:54

Sample Number: **ICV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.60721	11,602.33	0.551	0.60385	0.61054	0.60725
___ AL	29.19579	56,898.62	0.335	29.08300	29.25287	29.25151
___ AS	0.58853	99.91	0.419	0.59136	0.58737	0.58686
___ B	0.59502	5,791.95	0.802	0.58975	0.59905	0.59626
___ BA	0.59933	227,079.08	1.205	0.59485	0.59547	0.60766
___ BE	0.60282	259,827.65	0.658	0.59982	0.60131	0.60732
___ CA	29.48635	26,866.76	0.153	29.43928	29.49036	29.52941
___ CD	0.59546	7,511.28	0.192	0.59660	0.59431	0.59546
___ CO	0.59057	1,701.33	0.129	0.59105	0.58969	0.59097
___ CR	0.59805	6,967.93	0.736	0.59336	0.59872	0.60208
___ CU	0.60461	8,093.71	0.541	0.60106	0.60751	0.60527
___ FE	29.91761	10,335.62	0.673	29.69009	30.07304	29.98971
___ K	29.36029	12,119.40	0.166	29.35229	29.31594	29.41264
___ LI	0.59532	5,288.17	0.218	0.59662	0.59403	0.59531
___ MG	28.87395	47,558.24	0.094	28.85985	28.85684	28.90516
___ MN	0.59516	41,374.69	0.643	0.59095	0.59610	0.59843
___ MO	0.58993	1,983.59	0.417	0.59277	0.58842	0.58859
___ NA	28.78142	28,710.20	0.265	28.75711	28.72036	28.86680
___ NI	0.59241	834.22	0.277	0.59333	0.59339	0.59052
___ P	0.60073	190.27	0.589	0.60354	0.60189	0.59675
___ PB	0.59926	542.95	0.876	0.60459	0.59410	0.59908
___ S	0.95771	76.56	0.597	0.96360	0.95219	0.95732
___ SB	0.61075	302.89	0.766	0.61585	0.60977	0.60665
___ SE	0.59459	160.77	0.775	0.59839	0.59592	0.58946
___ SI	0.00989	3.81	55.292	0.01063	0.01495	0.00409
___ SN	0.59239	228.35	0.143	0.59322	0.59153	0.59244
___ SR	0.61000	301,903.71	1.125	0.60220	0.61268	0.61512
___ TI	0.59437	36,944.87	0.509	0.59114	0.59483	0.59713
___ TL	0.57865	326.05	0.337	0.58062	0.57861	0.57672
___ V	0.60217	6,572.41	0.629	0.59780	0.60408	0.60462
___ Y1	7475.54848	7,475.55	0.634	7424.97058	7482.79491	7518.87994
___ Y2A	458999.77653	458,999.78	0.567	461467.85239	456278.70678	459252.77040
___ Y2R	32219.12118	32,219.12	0.112	32177.68356	32243.38661	32236.29338
___ ZN	0.57901	7,771.04	0.421	0.58176	0.57712	0.57816
___ ZR	0.61462	1,033.08	0.210	0.61602	0.61347	0.61437

ASX73 2317

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 6

Date/Time: 07/20/2012 17:58

Sample Number: **ICB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.00003	8.98	435.054	-0.00013	0.00009	0.00014
___ AL	-0.00686	598.25	22.922	-0.00536	-0.00849	-0.00674
___ AS	0.00112	-0.54	271.135	0.00091	0.00426	-0.00181
___ B	0.00021	20.21	81.682	0.00020	0.00004	0.00038
___ BA	0.00007	111.08	31.587	0.00007	0.00009	0.00005
___ BE	0.00012	77.65	9.340	0.00011	0.00013	0.00011
___ CA	0.01741	164.05	23.240	0.01942	0.02005	0.01275
___ CD	-0.00048	-19.02	14.837	-0.00053	-0.00040	-0.00052
___ CO	-0.00088	-3.78	41.411	-0.00086	-0.00053	-0.00126
___ CR	-0.00019	-5.43	133.477	-0.00044	-0.00018	0.00006
___ CU	-0.00005	106.00	1279.259	-0.00018	-0.00058	0.00062
___ FE	0.00671	4.35	48.288	0.00484	0.00484	0.01045
___ K	0.04360	39.12	34.847	0.02629	0.05473	0.04978
___ LI	0.00104	40.33	95.190	-0.00009	0.00148	0.00174
___ MG	0.00889	15.60	9.229	0.00939	0.00934	0.00794
___ MN	0.00003	2.90	113.838	0.00007	0.00003	-0.00001
___ MO	0.00153	5.02	17.891	0.00167	0.00121	0.00170
___ NA	0.01034	69.79	156.826	0.01694	-0.00813	0.02220
___ NI	-0.00077	11.55	76.669	-0.00015	-0.00085	-0.00132
___ P	-0.00345	-2.92	64.978	-0.00329	-0.00577	-0.00129
___ PB	-0.00340	3.22	28.365	-0.00316	-0.00258	-0.00446
___ S	-0.00432	3.21	86.806	-0.00002	-0.00606	-0.00687
___ SB	-0.00102	-0.35	92.566	-0.00030	-0.00210	-0.00067
___ SE	0.00324	4.24	99.190	0.00611	0.00384	-0.00023
___ SI	-0.00312	1.41	31.536	-0.00246	-0.00425	-0.00265
___ SN	-0.00069	0.96	102.566	-0.00128	-0.00091	0.00010
___ SR	0.00009	58.40	29.137	0.00013	0.00008	0.00007
___ TI	0.00006	27.26	35.608	0.00006	0.00008	0.00004
___ TL	-0.00386	-8.39	29.029	-0.00374	-0.00280	-0.00503
___ V	-0.00032	-11.50	200.702	0.00041	-0.00063	-0.00073
___ Y1	7669.02983	7,669.03	0.140	7673.73899	7676.56836	7656.78215
___ Y2A	472449.47940	472,449.48	0.189	471876.20861	471995.70338	473476.52621
___ Y2R	32204.97849	32,204.98	0.687	32429.70401	31987.34808	32197.88339
___ ZN	0.00003	22.04	124.209	0.00002	0.00008	0.00000
___ ZR	0.00024	-8.91	535.196	0.00083	-0.00124	0.00114

ASX73 2318

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 7

Date/Time: 07/20/2012 18:02

Sample Number: **LLC**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.00470	106.18	11.724	0.00434	0.00441	0.00533
___ AL	0.17146	941.93	1.697	0.16839	0.17418	0.17182
___ AS	0.01787	2.40	13.850	0.01955	0.01904	0.01503
___ B	0.05281	514.83	1.399	0.05301	0.05199	0.05342
___ BA	0.00506	2,033.81	0.094	0.00506	0.00506	0.00507
___ BE	0.00502	2,228.10	0.605	0.00499	0.00503	0.00504
___ CA	0.19576	328.51	0.381	0.19497	0.19585	0.19645
___ CD	0.00451	45.82	1.546	0.00454	0.00457	0.00443
___ CO	0.00417	11.24	2.958	0.00416	0.00431	0.00406
___ CR	0.01493	173.97	4.052	0.01424	0.01539	0.01514
___ CU	0.01073	250.22	2.438	0.01100	0.01071	0.01048
___ FE	0.21004	75.52	1.193	0.21293	0.20868	0.20851
___ K	0.47152	217.32	6.601	0.50746	0.45342	0.45369
___ LI	0.02158	223.62	8.382	0.01950	0.02280	0.02245
___ MG	0.10125	170.41	2.184	0.10363	0.09926	0.10086
___ MN	0.00529	375.34	0.433	0.00530	0.00527	0.00531
___ MO	0.01040	35.77	1.260	0.01027	0.01041	0.01053
___ NA	0.95027	1,013.78	1.575	0.96299	0.95404	0.93378
___ NI	0.00942	26.16	6.562	0.00886	0.00932	0.01008
___ P	0.09664	29.89	0.609	0.09657	0.09609	0.09726
___ PB	0.01178	17.37	6.455	0.01129	0.01266	0.01139
___ S	0.82740	68.57	0.276	0.82665	0.82560	0.82997
___ SB	0.01877	9.72	12.940	0.01605	0.01954	0.02073
___ SE	0.02296	9.62	11.642	0.01989	0.02478	0.02422
___ SI	0.20050	39.25	8.003	0.19016	0.19235	0.21898
___ SN	0.01996	9.12	2.417	0.02042	0.02002	0.01945
___ SR	0.00511	2,583.22	0.732	0.00507	0.00515	0.00510
___ TI	0.01008	659.12	0.433	0.01010	0.01010	0.01003
___ TL	0.02625	9.35	0.568	0.02612	0.02621	0.02641
___ V	0.00540	52.06	7.892	0.00567	0.00562	0.00491
___ Y1	7695.41474	7,695.41	0.320	7717.05085	7700.51705	7668.67630
___ Y2A	467297.91528	467,297.92	0.369	466082.69741	469271.84804	466539.20040
___ Y2R	32486.45028	32,486.45	0.209	32470.74935	32560.93999	32427.66148
___ ZN	0.01945	287.69	0.355	0.01942	0.01940	0.01953
___ ZR	0.05186	79.27	1.819	0.05165	0.05104	0.05289

ASX73 2319

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 8

Date/Time: 07/20/2012 18:06

Sample Number: **ICSA**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.00014	-52.71	102.012	-0.00001	0.00015	0.00028
____ AL	486.75437	876,403.63	0.704	486.43885	490.33015	483.49411
____ AS	0.00561	2.28	62.990	0.00160	0.00696	0.00827
____ B	0.07018	2,409.07	4.516	0.07242	0.06655	0.07155
____ BA	0.00042	220.32	7.006	0.00045	0.00042	0.00039
____ BE	-0.00008	-8.88	56.555	-0.00004	-0.00008	-0.00013
____ CA	473.33279	406,890.22	0.947	477.36852	468.50935	474.12049
____ CD	-0.00174	230.90	9.806	-0.00160	-0.00193	-0.00168
____ CO	0.00094	1.40	77.812	0.00177	0.00068	0.00037
____ CR	0.00277	26.76	14.955	0.00299	0.00303	0.00229
____ CU	0.01322	152.29	1.540	0.01299	0.01337	0.01331
____ FE	194.26874	62,847.14	1.144	191.75900	195.99038	195.05686
____ K	0.00155	20.90	2744.763	0.05066	-0.02520	-0.02080
____ LI	0.01158	127.52	15.084	0.00960	0.01289	0.01226
____ MG	464.90758	638,359.02	1.699	471.68675	456.23216	466.80383
____ MN	0.00291	185.95	1.456	0.00296	0.00288	0.00290
____ MO	-0.00046	-1.59	47.202	-0.00035	-0.00071	-0.00032
____ NA	0.04308	97.81	39.304	0.02370	0.05057	0.05498
____ NI	-0.00028	5.85	29.346	-0.00031	-0.00018	-0.00034
____ P	-0.00096	-1.82	206.018	0.00080	-0.00309	-0.00059
____ PB	0.00201	55.59	81.237	0.00066	0.00155	0.00382
____ S	-0.06901	-1.62	7.272	-0.07377	-0.06948	-0.06377
____ SB	0.01043	4.71	14.589	0.00868	0.01129	0.01133
____ SE	-0.00084	3.65	546.505	0.00283	-0.00599	0.00064
____ SI	0.08369	16.64	5.839	0.08420	0.08830	0.07857
____ SN	0.00174	1.67	60.749	0.00118	0.00295	0.00107
____ SR	0.00284	1,298.39	0.956	0.00282	0.00287	0.00284
____ TI	-0.00016	11.96	42.116	-0.00014	-0.00011	-0.00024
____ TL	0.00812	-6.14	21.051	0.00893	0.00615	0.00927
____ V	-0.00218	5.13	7.000	-0.00200	-0.00227	-0.00226
____ Y1	6676.96235	6,676.96	0.205	6691.31024	6664.01341	6675.56340
____ Y2A	420466.73316	420,466.73	0.694	423769.28191	418244.33178	419386.58577
____ Y2R	30783.46653	30,783.47	0.400	30721.85189	30925.20471	30703.34299
____ ZN	0.00501	307.68	1.043	0.00507	0.00500	0.00497
____ ZR	-0.01328	-30.44	23.410	-0.01412	-0.01588	-0.00983

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LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 9

Date/Time: 07/20/2012 18:10

Sample Number: **ICSAB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.22492	3,811.06	0.687	0.22582	0.22581	0.22314
____ AL	479.61097	870,967.03	0.704	479.44585	483.06578	476.32129
____ AS	0.10806	17.94	8.528	0.11608	0.11010	0.09799
____ B	0.06542	2,362.80	3.307	0.06791	0.06433	0.06401
____ BA	0.52869	185,122.86	0.616	0.52754	0.53236	0.52616
____ BE	0.50523	201,247.22	0.784	0.50596	0.50878	0.50096
____ CA	476.50225	408,009.19	0.818	472.52248	480.30745	476.67681
____ CD	0.95897	11,041.64	0.091	0.95799	0.95925	0.95967
____ CO	0.48260	1,243.11	0.113	0.48222	0.48234	0.48322
____ CR	0.48160	5,184.91	0.708	0.48238	0.48456	0.47788
____ CU	0.56752	6,977.01	0.658	0.56793	0.57103	0.56359
____ FE	191.68769	62,540.50	0.963	193.73150	191.18746	190.14412
____ K	-0.05226	-0.25	27.205	-0.05045	-0.06729	-0.03903
____ LI	0.01107	122.68	4.760	0.01049	0.01119	0.01152
____ MG	472.02162	644,081.08	1.817	473.92029	479.49001	462.65455
____ MN	0.47951	30,805.83	0.700	0.47993	0.48263	0.47596
____ MO	-0.00098	-3.16	6.125	-0.00093	-0.00096	-0.00105
____ NA	0.05811	111.67	16.472	0.06871	0.05555	0.05009
____ NI	0.94275	1,178.78	0.047	0.94284	0.94314	0.94227
____ P	0.00093	-0.49	160.785	0.00037	0.00262	-0.00020
____ PB	0.05252	95.76	2.551	0.05186	0.05406	0.05164
____ S	-0.05945	-0.97	2.594	-0.05981	-0.06078	-0.05776
____ SB	0.64459	285.51	0.318	0.64469	0.64659	0.64250
____ SE	0.05523	16.99	11.022	0.06108	0.04893	0.05568
____ SI	0.04972	10.62	26.574	0.04621	0.03862	0.06434
____ SN	0.00012	1.12	3017.089	0.00028	0.00354	-0.00347
____ SR	0.00277	1,278.14	0.976	0.00278	0.00280	0.00274
____ TI	-0.00077	41.81	22.638	-0.00087	-0.00088	-0.00057
____ TL	0.08370	33.78	0.682	0.08304	0.08395	0.08410
____ V	0.50329	5,126.44	0.619	0.50442	0.50568	0.49977
____ Y1	6699.29596	6,699.30	0.025	6699.67575	6700.73936	6697.47276
____ Y2A	424181.56957	424,181.57	0.548	423245.30000	422470.23651	426829.17221
____ Y2R	30664.30876	30,664.31	0.368	30723.97847	30534.04149	30734.90632
____ ZN	1.01737	12,386.92	0.109	1.01690	1.01657	1.01864
____ ZR	-0.01487	-32.88	3.931	-0.01533	-0.01507	-0.01421

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LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 10

Date/Time: 07/20/2012 18:14

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.49830	9,636.09	1.285	0.50484	0.49204	0.49800
___ AL	23.93107	47,284.88	0.972	24.18442	23.72722	23.88157
___ AS	0.48606	82.43	1.003	0.48174	0.49135	0.48508
___ B	0.48358	4,772.46	1.088	0.48768	0.47764	0.48541
___ BA	0.50259	192,672.32	0.945	0.50799	0.49908	0.50068
___ BE	0.49474	215,752.01	0.959	0.49950	0.49001	0.49471
___ CA	24.92146	22,741.41	0.215	24.97611	24.91907	24.86919
___ CD	0.49651	6,263.65	0.117	0.49634	0.49716	0.49604
___ CO	0.49138	1,415.96	0.178	0.49040	0.49167	0.49208
___ CR	0.49622	5,848.87	0.891	0.49925	0.49114	0.49825
___ CU	0.49847	6,769.25	1.113	0.50473	0.49419	0.49647
___ FE	24.96747	8,721.44	0.843	25.20146	24.79373	24.90723
___ K	24.41757	10,086.81	0.350	24.33788	24.40719	24.50764
___ LI	0.49558	4,409.24	0.221	0.49442	0.49573	0.49660
___ MG	24.40730	40,270.29	0.453	24.53469	24.35240	24.33480
___ MN	0.49542	34,845.41	1.072	0.50113	0.49063	0.49449
___ MO	0.49269	1,657.26	0.201	0.49178	0.49375	0.49253
___ NA	23.89819	23,858.90	0.094	23.88549	23.88500	23.92409
___ NI	0.49427	698.34	0.305	0.49393	0.49592	0.49296
___ P	0.49551	156.71	0.448	0.49363	0.49495	0.49796
___ PB	0.50682	482.53	0.320	0.50745	0.50497	0.50802
___ S	0.78010	63.03	0.519	0.77804	0.78476	0.77749
___ SB	0.50282	249.52	0.612	0.50514	0.50398	0.49933
___ SE	0.49057	133.27	0.855	0.48692	0.49515	0.48964
___ SI	24.94996	4,601.48	0.188	24.90415	24.99780	24.94795
___ SN	0.49263	190.17	0.257	0.49263	0.49137	0.49391
___ SR	0.50555	253,159.61	0.863	0.51021	0.50156	0.50490
___ TI	0.49309	31,011.80	1.165	0.49913	0.48769	0.49245
___ TL	0.48126	270.29	0.345	0.47948	0.48156	0.48276
___ V	0.49898	5,508.65	1.196	0.50526	0.49338	0.49830
___ Y1	7478.52265	7,478.52	0.305	7482.25610	7454.08843	7499.22341
___ Y2A	464416.61327	464,416.61	1.000	459811.20346	469101.65893	464336.97744
___ Y2R	32232.33038	32,232.33	0.105	32222.23440	32270.18637	32204.57037
___ ZN	0.47887	6,433.96	0.275	0.47767	0.48028	0.47867
___ ZR	0.52607	883.26	0.602	0.52969	0.52466	0.52385

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LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 11

Date/Time: 07/20/2012 18:18

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00032	14.68	59.244	0.00053	0.00030	0.00014
AL	0.02396	653.55	38.452	0.03277	0.02471	0.01439
AS	0.00203	-0.38	105.337	-0.00032	0.00256	0.00384
B	0.00044	22.26	72.153	0.00080	0.00026	0.00025
BA	0.00008	114.18	34.696	0.00006	0.00007	0.00011
BE	0.00014	87.25	8.199	0.00014	0.00015	0.00013
CA	0.04466	191.41	2.560	0.04495	0.04563	0.04340
CD	-0.00047	-18.86	26.351	-0.00039	-0.00041	-0.00061
CO	-0.00077	-3.46	41.952	-0.00107	-0.00042	-0.00083
CR	-0.00019	-5.47	246.298	-0.00061	0.00033	-0.00030
CU	0.00012	107.38	198.833	-0.00015	0.00031	0.00020
FE	0.01645	7.74	24.457	0.01335	0.02099	0.01500
K	0.04762	41.37	22.633	0.03889	0.05967	0.04431
LI	-0.00020	29.80	317.743	0.00016	-0.00095	0.00018
MG	0.03842	65.53	8.080	0.04164	0.03544	0.03817
MN	0.00004	3.20	48.764	0.00006	0.00003	0.00002
MO	0.00057	1.74	24.504	0.00054	0.00045	0.00073
NA	0.01136	71.72	60.239	0.01827	0.01121	0.00459
NI	0.00009	12.79	389.758	0.00047	-0.00025	0.00006
P	-0.00285	-2.73	59.951	-0.00179	-0.00194	-0.00482
PB	-0.00068	5.73	110.623	-0.00062	-0.00146	0.00004
S	-0.00459	3.19	92.162	-0.00573	-0.00813	0.00009
SB	-0.00132	-0.50	54.964	-0.00101	-0.00080	-0.00215
SE	0.00322	4.23	88.675	0.00610	0.00040	0.00315
SI	0.00819	3.54	86.161	0.01577	0.00181	0.00699
SN	-0.00008	1.21	2072.835	-0.00121	0.00183	-0.00086
SR	0.00007	43.32	5.257	0.00007	0.00007	0.00006
TI	0.00017	34.19	87.413	0.00024	0.00000	0.00027
TL	-0.00465	-8.86	14.297	-0.00403	-0.00536	-0.00457
V	0.00014	-6.22	204.964	-0.00015	0.00043	0.00014
Y1	7673.13844	7,673.14	0.322	7650.41192	7699.43413	7669.56927
Y2A	468435.77822	468,435.78	0.869	464576.11370	468038.52024	472692.70073
Y2R	32659.98315	32,659.98	0.686	32542.04614	32519.39182	32918.51149
ZN	-0.00004	21.21	147.847	-0.00009	-0.00002	0.00001
ZR	0.00173	-6.47	62.273	0.00165	0.00070	0.00285

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LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 12 | Date/Time: 07/20/2012 18:22

Sample Number: **PBS** | Class: **** | Batch: 122005708003

Initial Vol: 1.03 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00020	12.23	120.158	0.00043	0.00023	-0.00005
AL	0.02451	665.68	4.296	0.02395	0.02573	0.02386
AS	-0.00081	-0.89	240.769	-0.00240	0.00136	-0.00138
B	0.00160	33.79	2.564	0.00155	0.00163	0.00162
BA	0.00011	128.62	2.829	0.00012	0.00011	0.00011
BE	0.00007	57.97	29.991	0.00007	0.00009	0.00005
CA	0.05196	202.00	5.551	0.05334	0.05390	0.04865
CD	-0.00035	-17.45	8.520	-0.00038	-0.00032	-0.00036
CO	-0.00048	-2.62	12.977	-0.00055	-0.00047	-0.00043
CR	-0.00002	-3.52	3018.127	-0.00078	0.00003	0.00068
CU	-0.00014	105.60	387.007	-0.00072	-0.00001	0.00032
FE	0.02117	9.55	39.332	0.02311	0.01204	0.02835
K	-0.00091	21.52	3961.217	-0.01970	-0.02348	0.04046
LI	0.00034	35.38	400.222	0.00115	0.00114	-0.00125
MG	0.01293	23.09	23.251	0.01636	0.01161	0.01081
MN	0.00079	57.94	7.771	0.00076	0.00076	0.00087
MO	0.00012	0.18	105.302	-0.00002	0.00018	0.00021
NA	0.00072	62.22	206.137	0.00232	-0.00063	0.00047
NI	0.00013	12.94	285.998	0.00057	-0.00014	-0.00003
P	0.01485	3.08	9.026	0.01503	0.01343	0.01609
PB	-0.00146	5.05	96.933	-0.00257	0.00013	-0.00195
S	0.01744	4.95	26.150	0.01254	0.01824	0.02155
SB	-0.00069	-0.19	130.467	-0.00009	-0.00026	-0.00173
SE	0.00180	3.88	59.807	0.00060	0.00211	0.00270
SI	0.01268	4.46	54.343	0.00502	0.01837	0.01464
SN	0.01603	7.60	2.081	0.01579	0.01641	0.01590
SR	0.00022	121.48	2.741	0.00021	0.00022	0.00022
TI	0.00015	33.46	36.071	0.00009	0.00017	0.00019
TL	-0.00404	-8.57	16.317	-0.00480	-0.00372	-0.00361
V	0.00016	-6.12	210.480	-0.00022	0.00034	0.00036
Y1	7729.64072	7,729.64	0.138	7722.52774	7741.95146	7724.44296
Y2A	476270.37310	476,270.37	0.063	475934.40610	476503.98142	476372.73179
Y2R	33299.89353	33,299.89	1.123	33696.03555	32952.99201	33250.65304
ZN	0.00400	76.61	1.915	0.00402	0.00407	0.00392
ZR	0.00023	-9.23	130.811	0.00057	0.00012	0.00000

LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 13 | Date/Time: 07/20/2012 18:26

Sample Number: **LCSW** | Class: **** | Batch: 122005708003

Initial Vol: 1.00 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05069	1,015.96	1.890	0.05145	0.05100	0.04961
AL	1.90989	4,520.94	1.450	1.93515	1.91422	1.88029
AS	0.16065	27.49	1.768	0.16322	0.16112	0.15760
B	1.96703	18,523.61	1.250	1.99005	1.96994	1.94111
BA	2.04401	791,239.74	1.439	2.06512	2.05650	2.01041
BE	0.05264	23,213.48	0.772	0.05299	0.05275	0.05220
CA	4.11119	3,936.73	0.016	4.11164	4.11149	4.11044
CD	0.05134	645.71	0.200	0.05127	0.05146	0.05129
CO	0.51613	1,519.67	0.142	0.51685	0.51616	0.51538
CR	0.20745	2,467.92	1.668	0.20999	0.20885	0.20351
CU	0.26035	3,603.41	1.180	0.26262	0.26157	0.25685
FE	1.05885	374.27	0.984	1.06088	1.06810	1.04757
K	9.89585	4,165.19	0.478	9.94130	9.89934	9.84692
LI	1.01263	9,115.73	0.341	1.01657	1.01123	1.01010
MG	1.99287	3,361.58	0.147	1.99351	1.98968	1.99541
MN	0.51781	36,789.33	0.743	0.52092	0.51900	0.51351
MO	2.02163	6,933.39	0.115	2.02397	2.01932	2.02160
NA	9.70455	9,874.25	0.307	9.73797	9.69512	9.68057
NI	0.52205	754.08	0.121	0.52179	0.52277	0.52159
P	1.05302	340.59	0.674	1.04907	1.06122	1.04878
PB	0.15582	144.26	0.578	0.15671	0.15491	0.15585
S	1.75432	140.10	0.292	1.75790	1.75661	1.74845
SB	0.52494	263.04	0.219	0.52592	0.52368	0.52523
SE	0.15513	45.26	0.941	0.15534	0.15648	0.15358
SI	1.01337	191.73	0.935	1.00316	1.01507	1.02189
SN	4.09216	1,601.49	0.025	4.09315	4.09220	4.09113
SR	1.02361	517,747.02	0.982	1.03502	1.01972	1.01609
TI	1.03330	65,322.53	0.939	1.04126	1.03614	1.02250
TL	0.13190	72.16	0.530	0.13161	0.13270	0.13140
V	0.50943	5,598.00	0.997	0.51407	0.51022	0.50400
Y1	7624.14082	7,624.14	0.097	7623.29029	7631.94491	7617.18726
Y2A	469108.44946	469,108.45	0.939	464714.10086	469085.23557	473526.01194
Y2R	32730.89340	32,730.89	0.459	32562.26838	32779.70465	32850.70717
ZN	0.50087	6,818.12	0.068	0.50089	0.50052	0.50121
ZR	1.05127	1,801.83	0.143	1.05228	1.04954	1.05199

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LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 14 | Date/Time: 07/20/2012 18:30

Sample Number: **6721497** | Class: U*** | Batch: 122005708003

Initial Vol: 1.04 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.00383	-94.45	6.708	0.00375	0.00363	0.00412
___ AL	78.47825	145,823.55	1.336	79.54056	78.45075	77.44343
___ AS	0.06943	11.69	12.008	0.06583	0.06350	0.07896
___ B	0.12519	3,120.46	3.076	0.12826	0.12644	0.12087
___ BA	1.50099	545,390.15	1.851	1.52843	1.50165	1.47288
___ BE	0.00338	1,420.48	1.736	0.00344	0.00336	0.00333
___ CA	548.83774	487,408.94	0.682	545.39491	552.82395	548.29435
___ CD	0.00314	309.55	8.547	0.00284	0.00323	0.00336
___ CO	0.06829	203.65	0.851	0.06892	0.06816	0.06778
___ CR	0.48586	5,429.50	1.277	0.49131	0.48715	0.47911
___ CU	1.06259	13,381.50	0.940	1.07352	1.06033	1.05392
___ FE	205.86894	69,853.80	0.938	208.09820	204.80048	204.70814
___ K	20.81818	8,499.35	0.439	20.91915	20.74107	20.79430
___ LI	0.09615	869.92	1.537	0.09616	0.09762	0.09466
___ MG	277.40403	418,773.04	1.213	278.32927	280.21045	273.67238
___ MN	2.97278	198,241.08	1.253	3.00647	2.97911	2.93277
___ MO	0.01684	51.80	2.888	0.01739	0.01646	0.01667
___ NA	1.53435	1,568.41	1.377	1.53808	1.51161	1.55336
___ NI	0.24402	317.24	0.918	0.24471	0.24152	0.24584
___ P	4.37597	1,279.09	0.174	4.37591	4.38362	4.36838
___ PB	3.71610	3,066.36	0.277	3.72772	3.70806	3.71253
___ S	18.66659	1,312.10	0.312	18.72226	18.60600	18.67151
___ SB	0.01645	10.76	12.893	0.01818	0.01408	0.01710
___ SE	0.00797	6.29	57.111	0.00422	0.00666	0.01303
___ SI	8.24175	1,503.01	0.689	8.29787	8.18429	8.24309
___ SN	0.12578	45.41	0.800	0.12516	0.12695	0.12525
___ SR	0.70589	335,147.78	0.978	0.71323	0.69953	0.70490
___ TI	4.42884	262,659.47	1.193	4.47840	4.43484	4.37327
___ TL	-0.01661	-21.85	1.634	-0.01645	-0.01644	-0.01692
___ V	0.39611	4,214.35	0.989	0.39941	0.39714	0.39178
___ Y1	6867.38392	6,867.38	0.399	6838.71877	6893.23559	6870.19741
___ Y2A	440324.50687	440,324.51	0.884	436895.97739	439518.60040	444558.94282
___ Y2R	31843.66235	31,843.66	0.338	31870.46772	31725.05989	31935.45944
___ ZN	1.68676	20,748.79	0.360	1.69346	1.68162	1.68520
___ ZR	0.05016	74.85	5.340	0.04726	0.05254	0.05067

LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 15 | Date/Time: 07/20/2012 18:34

Sample Number: **6721497** | Class: UP** | Batch: 122005708003

Initial Vol: 1.04 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.02173	351.75	1.801	0.02197	0.02128	0.02194
AL	77.70301	144,418.37	0.354	77.49575	77.59869	78.01457
AS	0.58293	91.22	0.729	0.58485	0.57806	0.58588
B	0.32171	4,820.74	0.170	0.32233	0.32144	0.32135
BA	1.51643	551,062.98	1.076	1.52135	1.49823	1.52972
BE	0.02271	9,413.72	0.130	0.02271	0.02268	0.02274
CA	537.02865	478,555.66	1.147	531.65322	543.74842	535.68431
CD	0.05114	850.71	1.622	0.05101	0.05039	0.05203
CO	0.16266	448.61	1.521	0.16219	0.16046	0.16534
CR	0.66117	7,390.42	0.244	0.65994	0.66057	0.66299
CU	1.56945	19,857.21	0.392	1.56440	1.56764	1.57631
FE	202.33701	68,626.77	0.552	202.15662	201.32135	203.53308
K	22.15230	9,072.05	0.246	22.09062	22.17229	22.19398
LI	1.17021	10,277.16	0.516	1.16332	1.17277	1.17455
MG	270.10984	410,025.18	0.977	269.66962	272.94106	267.71885
MN	2.96940	198,034.52	0.190	2.96439	2.96830	2.97552
MO	0.21144	647.17	1.000	0.20996	0.21049	0.21386
NA	3.50329	3,516.91	0.140	3.50627	3.49763	3.50597
NI	0.38391	491.48	1.319	0.38105	0.38092	0.38976
P	5.37426	1,557.52	0.802	5.37371	5.33142	5.41766
PB	4.15088	3,390.06	1.463	4.13039	4.10303	4.21923
S	18.40644	1,282.34	1.127	18.38347	18.21140	18.62445
SB	0.43908	199.88	0.910	0.43715	0.43641	0.44367
SE	0.83986	206.55	0.517	0.83810	0.83668	0.84481
SI	5.79033	1,059.97	0.880	5.84618	5.77834	5.74646
SN	0.71221	249.71	2.065	0.70419	0.70326	0.72918
SR	0.71847	341,132.18	0.447	0.71564	0.71780	0.72196
TI	4.36413	258,853.35	0.356	4.35672	4.35368	4.38198
TL	0.95944	488.11	1.153	0.96063	0.94783	0.96986
V	0.48408	5,129.40	0.442	0.48253	0.48320	0.48653
Y1	6806.71560	6,806.72	1.142	6853.02526	6850.17086	6716.95069
Y2A	440336.40293	440,336.40	0.465	441488.06516	441549.06915	437972.07447
Y2R	31946.96082	31,946.96	0.463	32050.78937	31777.41324	32012.67986
ZN	1.77938	21,690.53	1.291	1.76835	1.76400	1.80578
ZR	1.03967	1,739.16	0.290	1.03658	1.03980	1.04261

LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 16 | Date/Time: 07/20/2012 18:38

Sample Number: **6721497** | Class: D*** | Batch: 122005708003

Initial Vol: 1.02 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00289	-61.89	5.239	0.00307	0.00281	0.00280
AL	81.06318	154,171.40	0.653	81.66384	80.66336	80.86234
AS	0.04456	7.79	20.350	0.03710	0.04194	0.05466
B	0.10591	2,748.45	2.625	0.10808	0.10277	0.10687
BA	1.51952	565,213.27	1.852	1.55045	1.49545	1.51267
BE	0.00335	1,442.64	0.824	0.00338	0.00335	0.00332
CA	404.13968	366,290.72	1.971	397.31120	402.21488	412.89296
CD	0.00286	275.04	5.761	0.00268	0.00289	0.00301
CO	0.06509	200.15	0.932	0.06443	0.06522	0.06562
CR	0.26420	3,021.14	0.379	0.26513	0.26434	0.26314
CU	0.88601	11,379.30	0.481	0.88879	0.88815	0.88110
FE	178.52484	61,784.82	0.586	179.56155	178.54180	177.47117
K	17.71443	7,365.12	0.224	17.73786	17.73690	17.66854
LI	0.08087	749.80	0.862	0.08156	0.08017	0.08087
MG	199.44696	314,031.97	0.522	198.28173	199.77627	200.28288
MN	2.33032	159,084.62	0.478	2.34269	2.32717	2.32108
MO	0.00823	25.82	4.348	0.00831	0.00783	0.00853
NA	1.54098	1,603.13	1.095	1.55395	1.54710	1.52190
NI	0.20528	275.10	0.384	0.20439	0.20590	0.20555
P	4.00897	1,200.28	0.323	3.99642	4.02229	4.00818
PB	3.03097	2,565.37	0.161	3.02538	3.03447	3.03307
S	7.46829	539.76	0.238	7.45333	7.48793	7.46360
SB	0.01462	8.66	32.066	0.01742	0.00921	0.01723
SE	0.00596	5.73	27.212	0.00642	0.00730	0.00416
SI	7.03450	1,306.14	0.947	7.10697	7.02057	6.97597
SN	0.11183	41.49	0.250	0.11161	0.11174	0.11214
SR	0.40932	198,947.79	0.433	0.41136	0.40846	0.40815
TI	4.43376	269,191.67	1.242	4.43604	4.37759	4.48765
TL	-0.01320	-20.01	7.984	-0.01247	-0.01272	-0.01440
V	0.24551	2,688.03	0.521	0.24697	0.24495	0.24460
Y1	7035.44137	7,035.44	0.338	7038.39696	7057.63695	7010.29020
Y2A	450746.18794	450,746.19	0.637	447447.32380	452125.28258	452665.95745
Y2R	32415.21430	32,415.21	0.236	32357.93024	32385.43539	32502.27726
ZN	1.50047	18,898.72	0.075	1.49959	1.50009	1.50174
ZR	0.05556	85.43	4.167	0.05616	0.05301	0.05752

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LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 17 | Date/Time: 07/20/2012 18:42

Sample Number: **6721497** | Class: R*** | Batch: 122005708003

Initial Vol: 1.01 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.05709	928.48	1.043	0.05707	0.05769	0.05650
____ AL	127.93346	247,283.76	1.161	129.20565	128.29417	126.30056
____ AS	0.21381	36.46	2.107	0.21626	0.21656	0.20861
____ B	2.19534	22,529.57	1.052	2.21509	2.20096	2.16996
____ BA	4.02173	1,518,205.23	1.554	4.07487	4.03743	3.95289
____ BE	0.05864	25,215.96	1.107	0.05934	0.05854	0.05805
____ CA	176.08496	162,149.57	0.155	175.89796	175.95892	176.39800
____ CD	0.05321	971.22	0.333	0.05330	0.05301	0.05333
____ CO	0.59294	1,680.21	0.274	0.59477	0.59241	0.59165
____ CR	0.81971	9,519.90	1.247	0.83014	0.81927	0.80971
____ CU	1.52486	19,738.74	1.117	1.53926	1.52926	1.50606
____ FE	236.04420	83,549.95	0.929	236.65783	237.86471	233.61006
____ K	34.53336	14,505.76	0.213	34.46175	34.52956	34.60875
____ LI	1.16105	10,466.83	0.409	1.16571	1.15622	1.16123
____ MG	88.21270	145,315.05	0.090	88.20888	88.13498	88.29424
____ MN	4.68536	324,638.37	0.947	4.68531	4.72973	4.64103
____ MO	1.99273	6,440.64	0.317	1.99894	1.99295	1.98630
____ NA	12.49697	12,722.02	0.543	12.51138	12.42311	12.55643
____ NI	0.79267	1,065.36	0.110	0.79322	0.79313	0.79166
____ P	6.26752	1,917.63	0.543	6.30130	6.26803	6.23324
____ PB	4.41101	3,808.48	0.147	4.41236	4.41671	4.40395
____ S	9.01532	664.73	0.201	9.03616	9.00631	9.00350
____ SB	0.33374	162.33	0.541	0.33237	0.33578	0.33305
____ SE	0.15720	44.88	2.192	0.15804	0.16014	0.15341
____ SI	12.30548	2,309.94	0.149	12.30477	12.28754	12.32414
____ SN	4.02939	1,486.11	0.281	4.04206	4.02594	4.02018
____ SR	1.45838	719,405.54	0.992	1.45451	1.47439	1.44625
____ TI	7.26191	447,507.69	0.654	7.21455	7.30947	7.26171
____ TL	0.10382	42.71	3.220	0.10087	0.10745	0.10315
____ V	0.90206	9,823.52	1.091	0.91198	0.90190	0.89230
____ Y1	7185.06604	7,185.07	0.585	7138.71469	7220.74977	7195.73367
____ Y2A	457496.21331	457,496.21	0.830	455289.92686	455320.19614	461878.51692
____ Y2R	32792.59130	32,792.59	0.397	32688.89000	32938.90385	32749.98005
____ ZN	3.39297	43,460.30	0.279	3.40306	3.38431	3.39155
____ ZR	1.13292	1,946.18	0.131	1.13124	1.13348	1.13405

LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 18 | Date/Time: 07/20/2012 18:46

Sample Number: **6721497** | Class: M*** | Batch: 122005708003

Initial Vol: 1.02 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.05523	922.33	0.513	0.05490	0.05537	0.05541
AL	117.51238	225,160.84	0.758	118.54132	117.00931	116.98651
AS	0.21145	35.54	3.894	0.22044	0.20428	0.20964
B	2.14723	21,631.79	0.937	2.16943	2.14205	2.13021
BA	4.58365	1,715,669.07	0.988	4.63593	4.55794	4.55707
BE	0.05533	23,589.00	0.583	0.05565	0.05532	0.05500
CA	212.45058	193,890.11	0.199	212.40414	212.89543	212.05216
CD	0.05248	915.38	0.064	0.05246	0.05247	0.05252
CO	0.57369	1,606.20	0.324	0.57533	0.57408	0.57167
CR	0.60919	7,014.29	0.722	0.61381	0.60871	0.60505
CU	1.34137	17,260.56	0.517	1.34870	1.33490	1.34050
FE	209.13516	73,133.47	1.125	211.85148	207.84111	207.71290
K	32.56800	13,569.70	0.178	32.63045	32.55729	32.51625
LI	1.15346	10,313.71	0.271	1.15100	1.15240	1.15697
MG	115.37778	186,988.97	0.202	115.26351	115.64576	115.22407
MN	5.22549	358,985.29	0.957	5.28249	5.20509	5.18890
MO	1.98191	6,349.97	0.215	1.98647	1.98124	1.97801
NA	12.79955	12,922.29	0.136	12.80296	12.78072	12.81497
NI	0.80327	1,070.84	0.189	0.80500	0.80267	0.80215
P	4.92558	1,493.78	0.802	4.96342	4.92870	4.88461
PB	4.50124	3,851.80	0.209	4.50017	4.51114	4.49241
S	11.32449	826.89	0.399	11.36501	11.33276	11.27569
SB	0.35307	168.44	0.646	0.35049	0.35484	0.35387
SE	0.16415	46.17	0.774	0.16298	0.16397	0.16550
SI	13.39552	2,493.85	0.382	13.45417	13.35975	13.37265
SN	3.99097	1,459.15	0.271	3.99691	3.99749	3.97850
SR	1.46761	717,774.72	1.484	1.49273	1.45384	1.45626
TI	6.08042	371,503.30	0.919	6.14477	6.05230	6.04419
TL	0.10891	46.67	1.931	0.11096	0.10901	0.10676
V	0.80753	8,706.21	1.174	0.81531	0.81030	0.79698
Y1	7122.55234	7,122.55	0.341	7122.31544	7098.41576	7146.92582
Y2A	453615.51418	453,615.51	1.003	448389.57779	455750.34907	456706.61569
Y2R	32524.65904	32,524.66	0.110	32564.60495	32495.52380	32513.84838
ZN	2.79059	35,468.57	0.118	2.79277	2.79219	2.78682
ZR	1.13545	1,934.60	0.284	1.13439	1.13907	1.13290

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LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 19 | Date/Time: 07/20/2012 18:51

Sample Number: **6721497** | Class: UL** | Batch: 122005708003

Initial Vol: 1.04 | Final Vol: 100.00 | DF: 5.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.00050	-20.69	76.001	0.00045	0.00091	0.00015
___ AL	15.29701	29,889.68	0.637	15.18745	15.32987	15.37372
___ AS	0.01341	1.86	35.093	0.01883	0.01097	0.01042
___ B	0.03145	747.44	0.708	0.03126	0.03170	0.03139
___ BA	0.31483	118,775.25	0.554	0.31283	0.31601	0.31564
___ BE	0.00072	334.28	2.552	0.00072	0.00070	0.00074
___ CA	120.79682	109,582.10	0.332	120.39032	120.80879	121.19135
___ CD	-0.00020	49.72	41.641	-0.00012	-0.00028	-0.00021
___ CO	0.01380	42.96	4.188	0.01423	0.01403	0.01314
___ CR	0.10743	1,243.35	0.606	0.10667	0.10782	0.10778
___ CU	0.21369	2,873.64	0.668	0.21215	0.21497	0.21395
___ FE	43.85512	15,109.37	0.281	43.72356	43.87340	43.96840
___ K	4.12471	1,723.05	0.812	4.13409	4.15251	4.08753
___ LI	0.02149	221.24	3.704	0.02080	0.02131	0.02236
___ MG	58.99351	96,437.80	0.252	58.84773	58.98781	59.14498
___ MN	0.64770	44,821.39	0.742	0.64242	0.65180	0.64889
___ MO	0.00584	18.91	2.841	0.00602	0.00569	0.00581
___ NA	0.29790	356.48	4.106	0.31202	0.29059	0.29109
___ NI	0.05310	82.70	0.426	0.05288	0.05309	0.05333
___ P	0.87579	270.32	0.283	0.87823	0.87589	0.87327
___ PB	0.78843	694.58	0.183	0.78792	0.79006	0.78732
___ S	3.63024	273.53	0.613	3.60502	3.64709	3.63859
___ SB	0.00097	1.38	180.618	0.00133	0.00252	-0.00094
___ SE	0.00567	4.96	58.531	0.00551	0.00906	0.00243
___ SI	1.22633	228.27	1.717	1.21337	1.21500	1.25062
___ SN	0.02736	11.40	4.759	0.02877	0.02713	0.02619
___ SR	0.14949	73,657.61	0.597	0.14846	0.15000	0.15002
___ TI	0.92284	56,811.89	0.621	0.91642	0.92746	0.92464
___ TL	-0.00527	-10.47	9.507	-0.00533	-0.00574	-0.00474
___ V	0.08534	935.89	0.973	0.08440	0.08596	0.08566
___ Y1	7288.27892	7,288.28	0.330	7297.45279	7306.42905	7260.95492
___ Y2A	456900.84774	456,900.85	0.382	458910.65492	455759.84043	456032.04787
___ Y2R	32261.10280	32,261.10	0.215	32240.28110	32204.69996	32338.32735
___ ZN	0.34758	4,555.90	0.150	0.34715	0.34743	0.34816
___ ZR	0.01221	11.40	1.205	0.01211	0.01238	0.01215

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LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 20 | Date/Time: 07/20/2012 18:54

Sample Number: **6721497** | Class: U*** | Batch: 122005708003

Initial Vol: 1.04 | Final Vol: 100.00 | DF: 2.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00213	-44.17	6.277	0.00225	0.00199	0.00216
AL	39.57885	74,820.51	0.272	39.69816	39.48834	39.55004
AS	0.03165	5.18	12.053	0.02796	0.03142	0.03557
B	0.07031	1,719.73	2.242	0.07152	0.07089	0.06853
BA	0.76643	282,776.70	0.296	0.76568	0.76464	0.76898
BE	0.00181	783.86	2.053	0.00178	0.00185	0.00179
CA	290.22376	261,509.62	0.382	291.32545	290.23627	289.10957
CD	0.00096	153.25	21.179	0.00112	0.00103	0.00073
CO	0.03558	107.77	1.776	0.03558	0.03495	0.03621
CR	0.25664	2,910.26	0.708	0.25834	0.25473	0.25686
CU	0.54010	6,950.49	0.664	0.54387	0.53673	0.53969
FE	108.81692	36,999.37	0.951	109.24632	107.63634	109.56811
K	10.52720	4,351.07	0.378	10.50573	10.57317	10.50270
LI	0.04839	457.67	1.590	0.04818	0.04925	0.04776
MG	143.63075	228,212.98	1.261	142.31665	145.69658	142.87901
MN	1.56502	105,952.43	0.660	1.57264	1.55327	1.56914
MO	0.00848	26.54	1.633	0.00851	0.00861	0.00833
NA	0.75703	811.54	1.961	0.75329	0.77339	0.74440
NI	0.12857	176.11	0.626	0.12890	0.12916	0.12765
P	2.20849	658.22	0.842	2.22115	2.21718	2.18713
PB	1.95357	1,648.03	0.233	1.95882	1.95064	1.95125
S	9.44999	679.74	0.468	9.48197	9.46842	9.39957
SB	0.00869	5.87	3.649	0.00860	0.00843	0.00905
SE	0.00229	4.37	206.467	-0.00067	-0.00021	0.00775
SI	4.08776	753.89	0.397	4.09142	4.07001	4.10185
SN	0.06591	24.83	1.626	0.06629	0.06674	0.06470
SR	0.36901	177,865.02	0.425	0.37061	0.36747	0.36895
TI	2.30078	138,538.89	0.518	2.31257	2.28874	2.30102
TL	-0.01085	-15.52	14.449	-0.01230	-0.01106	-0.00919
V	0.20621	2,224.04	0.184	0.20664	0.20601	0.20597
Y1	7010.85965	7,010.86	0.114	7015.54756	7015.36737	7001.66400
Y2A	447000.19947	447,000.20	0.383	446102.07779	448973.52061	445925.00000
Y2R	32160.59542	32,160.60	0.474	32247.16736	31984.44933	32250.16956
ZN	0.87177	10,960.35	0.081	0.87188	0.87102	0.87242
ZR	0.02621	35.07	2.245	0.02671	0.02636	0.02556

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LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 21 | Date/Time: 07/20/2012 18:58

Sample Number: **6721497** | Class: UP** | Batch: 122005708003

Initial Vol: 1.04 | Final Vol: 100.00 | DF: 2.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.01896	387.00	0.458	0.01895	0.01906	0.01888
___ AL	39.68716	74,702.70	0.437	39.75897	39.48953	39.81299
___ AS	0.53525	85.89	1.285	0.52807	0.53588	0.54179
___ B	0.26567	3,416.83	1.169	0.26723	0.26210	0.26769
___ BA	0.80417	295,341.62	0.471	0.80398	0.80049	0.80805
___ BE	0.02110	8,838.29	0.205	0.02113	0.02105	0.02111
___ CA	281.50765	250,609.97	0.370	281.20455	282.66765	280.65073
___ CD	0.04958	722.68	0.340	0.04973	0.04961	0.04940
___ CO	0.13087	366.18	0.449	0.13118	0.13124	0.13019
___ CR	0.43889	4,956.35	0.412	0.44051	0.43694	0.43923
___ CU	1.04954	13,491.73	0.108	1.04921	1.05080	1.04860
___ FE	105.02846	35,530.61	0.546	105.17912	104.39465	105.51162
___ K	12.32723	5,029.63	0.401	12.29408	12.38402	12.30360
___ LI	1.10037	9,611.87	0.649	1.10041	1.10750	1.09321
___ MG	140.58181	220,859.00	1.465	141.96900	141.56086	138.21556
___ MN	1.58336	106,705.76	0.450	1.58645	1.57521	1.58843
___ MO	0.20412	645.52	0.268	0.20469	0.20360	0.20407
___ NA	2.70151	2,710.32	0.714	2.71063	2.71455	2.67936
___ NI	0.26763	358.52	0.366	0.26811	0.26650	0.26827
___ P	3.19701	956.74	0.589	3.21781	3.19210	3.18113
___ PB	2.39155	2,020.55	0.141	2.39413	2.38775	2.39278
___ S	9.21914	665.24	0.315	9.24757	9.22037	9.18948
___ SB	0.41732	195.00	0.502	0.41607	0.41974	0.41615
___ SE	0.81450	206.44	0.545	0.81393	0.81038	0.81920
___ SI	3.91423	713.17	0.778	3.88138	3.94157	3.91974
___ SN	0.65210	236.35	0.212	0.65369	0.65149	0.65113
___ SR	0.37800	181,366.45	0.090	0.37839	0.37785	0.37776
___ TI	2.34519	140,577.05	0.274	2.34755	2.33793	2.35009
___ TL	0.97716	517.53	0.518	0.98166	0.97814	0.97168
___ V	0.29835	3,182.86	0.389	0.29952	0.29720	0.29832
___ Y1	7032.33536	7,032.34	0.310	7057.43798	7017.79006	7021.77804
___ Y2A	444954.90913	444,954.91	0.031	444991.67221	444802.44348	445070.61170
___ Y2R	31769.67927	31,769.68	0.606	31868.16137	31547.90503	31892.97141
___ ZN	0.96238	12,131.74	0.023	0.96246	0.96256	0.96214
___ ZR	1.02294	1,701.50	0.648	1.01662	1.02984	1.02236

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LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 22

Date/Time: 07/20/2012 19:02

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.49853	9,616.60	0.534	0.50145	0.49791	0.49623
___ AL	23.87580	47,046.54	0.701	24.06593	23.81061	23.75084
___ AS	0.48662	81.47	1.204	0.48551	0.48140	0.49296
___ B	0.48394	4,762.97	0.659	0.48741	0.48326	0.48115
___ BA	0.49868	190,650.67	0.537	0.50161	0.49807	0.49636
___ BE	0.48875	212,554.19	0.685	0.49244	0.48792	0.48590
___ CA	24.66612	22,453.02	0.112	24.68965	24.63561	24.67308
___ CD	0.49840	6,207.51	0.157	0.49800	0.49930	0.49789
___ CO	0.49333	1,403.50	0.205	0.49356	0.49222	0.49421
___ CR	0.49158	5,778.22	0.624	0.49494	0.49088	0.48892
___ CU	0.49886	6,756.02	0.728	0.50142	0.50047	0.49471
___ FE	24.98947	8,704.94	0.942	25.24769	24.93397	24.78676
___ K	24.64940	10,156.60	0.139	24.63392	24.62550	24.68879
___ LI	0.50345	4,467.42	0.135	0.50275	0.50350	0.50410
___ MG	24.19914	39,828.18	0.127	24.20173	24.16708	24.22861
___ MN	0.49016	34,380.84	0.690	0.49332	0.49056	0.48659
___ MO	0.49694	1,650.37	0.197	0.49730	0.49769	0.49583
___ NA	24.08545	23,984.50	0.196	24.11774	24.03140	24.10719
___ NI	0.49307	687.83	0.304	0.49450	0.49151	0.49319
___ P	0.50189	156.72	0.246	0.50297	0.50054	0.50217
___ PB	0.50682	476.37	0.523	0.50722	0.50926	0.50400
___ S	0.80502	64.11	0.614	0.80191	0.80244	0.81072
___ SB	0.50899	249.30	0.068	0.50935	0.50896	0.50866
___ SE	0.49457	132.63	0.466	0.49510	0.49656	0.49205
___ SI	24.93141	4,586.40	0.382	24.99695	24.82214	24.97514
___ SN	0.49252	187.71	0.693	0.49312	0.49559	0.48885
___ SR	0.49854	248,958.82	0.736	0.50268	0.49568	0.49727
___ TI	0.49130	30,814.82	0.752	0.49535	0.49041	0.48813
___ TL	0.47858	265.34	0.497	0.48118	0.47651	0.47807
___ V	0.49343	5,431.95	0.527	0.49632	0.49269	0.49128
___ Y1	7383.55050	7,383.55	0.370	7414.96703	7370.65174	7365.03275
___ Y2A	463127.28500	463,127.29	0.848	458618.50066	464979.52887	465783.82548
___ Y2R	32150.75838	32,150.76	0.223	32169.21310	32211.42800	32071.63404
___ ZN	0.48332	6,410.28	0.222	0.48208	0.48397	0.48391
___ ZR	0.53013	887.90	0.442	0.53252	0.52783	0.53006

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LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 23

Date/Time: 07/20/2012 19:06

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	-0.00037	1.00	88.117	-0.00052	-0.00058	0.00000
AL	0.00557	619.44	124.945	-0.00244	0.00903	0.01013
AS	-0.00113	-0.92	109.609	-0.00157	-0.00209	0.00027
B	0.00096	27.36	17.526	0.00078	0.00111	0.00098
BA	0.00026	185.48	19.740	0.00032	0.00024	0.00023
BE	0.00018	104.78	3.275	0.00019	0.00017	0.00018
CA	0.06084	205.92	21.118	0.07353	0.06116	0.04784
CD	-0.00047	-18.58	17.728	-0.00038	-0.00047	-0.00055
CO	-0.00084	-3.60	50.145	-0.00038	-0.00121	-0.00093
CR	0.00025	-0.20	167.177	0.00013	-0.00009	0.00072
CU	0.00011	107.55	237.156	-0.00019	0.00019	0.00033
FE	0.02795	11.81	5.563	0.02931	0.02827	0.02626
K	0.01410	27.33	160.643	0.00686	0.03950	-0.00405
LI	0.00052	36.21	153.811	-0.00038	0.00079	0.00116
MG	0.02946	50.37	13.916	0.03326	0.03001	0.02512
MN	0.00034	24.83	22.344	0.00043	0.00028	0.00031
MO	0.00084	2.62	0.564	0.00083	0.00084	0.00084
NA	0.00745	67.70	175.447	-0.00617	0.01990	0.00863
NI	-0.00025	12.15	177.023	0.00024	-0.00060	-0.00038
P	-0.00195	-2.40	43.825	-0.00097	-0.00257	-0.00232
PB	-0.00170	4.73	51.726	-0.00069	-0.00231	-0.00208
S	0.00089	3.57	277.888	-0.00180	0.00142	0.00303
SB	-0.00140	-0.53	155.872	-0.00300	-0.00228	0.00108
SE	0.00514	4.70	15.504	0.00422	0.00559	0.00562
SI	0.00688	3.29	105.371	0.01197	-0.00142	0.01009
SN	-0.00004	1.20	1658.600	0.00035	0.00035	-0.00083
SR	0.00019	105.55	9.985	0.00019	0.00020	0.00017
TI	0.00073	69.34	21.741	0.00082	0.00054	0.00082
TL	-0.00483	-8.85	5.264	-0.00455	-0.00504	-0.00489
V	0.00006	-7.10	614.126	0.00050	-0.00012	-0.00020
Y1	7577.05742	7,577.06	0.391	7573.85029	7549.19779	7608.12418
Y2A	469918.80115	469,918.80	1.183	476317.35236	466252.30591	467186.74519
Y2R	32604.37595	32,604.38	0.175	32543.41738	32612.86684	32656.84363
ZN	0.00023	24.45	35.402	0.00032	0.00017	0.00020
ZR	0.00093	-7.84	184.885	0.00070	0.00277	-0.00066

LANCASTER LABORATORIES

Run Name: 1220207T70 Instrument ID: 11016

Tube: 24 Date/Time: 07/20/2012 19:10

Sample Number: **6721497** Class: M*** Batch: 122005708003

Initial Vol: 1.02 Final Vol: 100.00 DF: 2.00 Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.02857	482.46	2.693	0.02792	0.02836	0.02942
____ AL	59.73653	115,592.93	0.731	59.23518	60.03548	59.93894
____ AS	0.10602	17.94	3.171	0.10960	0.10553	0.10292
____ B	1.09958	11,223.07	0.562	1.09249	1.10380	1.10246
____ BA	2.38262	900,765.01	0.887	2.36419	2.40569	2.37798
____ BE	0.02859	12,325.10	0.424	0.02848	0.02858	0.02872
____ CA	110.49398	100,810.34	0.191	110.25421	110.57509	110.65265
____ CD	0.02712	481.07	0.783	0.02726	0.02724	0.02688
____ CO	0.29838	855.52	0.251	0.29796	0.29794	0.29925
____ CR	0.32193	3,742.29	0.488	0.32109	0.32374	0.32097
____ CU	0.68147	8,897.69	0.610	0.67667	0.68377	0.68397
____ FE	109.70966	38,236.31	0.396	109.24315	109.78176	110.10407
____ K	16.62843	6,920.01	0.348	16.61089	16.58145	16.69296
____ LI	0.58585	5,239.62	0.095	0.58553	0.58552	0.58649
____ MG	59.00060	96,973.20	0.222	58.86652	59.00655	59.12873
____ MN	2.80316	194,498.78	0.383	2.79076	2.80933	2.80940
____ MO	1.02710	3,370.77	0.087	1.02807	1.02690	1.02633
____ NA	6.58015	6,654.33	0.238	6.56480	6.57954	6.59612
____ NI	0.41803	576.59	0.434	0.41599	0.41864	0.41946
____ P	2.46677	765.48	0.373	2.46190	2.47739	2.46103
____ PB	2.34912	2,061.57	0.146	2.34835	2.34614	2.35288
____ S	5.74798	431.57	0.557	5.77453	5.75703	5.71239
____ SB	0.17742	86.89	2.432	0.17986	0.17244	0.17997
____ SE	0.08070	24.94	2.933	0.08184	0.08229	0.07798
____ SI	6.68747	1,242.63	0.513	6.72664	6.67286	6.66289
____ SN	2.06644	774.47	0.182	2.06855	2.06868	2.06210
____ SR	0.76088	375,866.80	0.310	0.75947	0.76360	0.75956
____ TI	3.21548	198,432.88	0.467	3.19840	3.22152	3.22652
____ TL	0.05570	21.50	0.687	0.05539	0.05613	0.05560
____ V	0.41967	4,566.68	0.484	0.41735	0.42052	0.42113
____ Y1	7295.91308	7,295.91	0.740	7239.49630	7301.15172	7347.09122
____ Y2A	458126.19833	458,126.20	0.594	461237.69078	456935.01991	456205.88431
____ Y2R	32436.47921	32,436.48	0.038	32450.72355	32429.96309	32428.75100
____ ZN	1.44139	18,777.31	0.262	1.44517	1.44138	1.43762
____ ZR	0.57333	969.55	0.159	0.57279	0.57281	0.57438

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LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 25 | Date/Time: 07/20/2012 19:14

Sample Number: **6721497** | Class: UL** | Batch: 122005708003

Initial Vol: 1.04 | Final Vol: 100.00 | DF: 10.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
____ AG	0.00028	-5.50	127.149	0.00036	0.00060	-0.00011
____ AL	7.40764	14,837.40	0.299	7.38237	7.42363	7.41693
____ AS	0.00489	0.28	41.466	0.00654	0.00262	0.00551
____ B	0.01603	387.48	1.406	0.01604	0.01581	0.01626
____ BA	0.15334	58,138.52	0.280	0.15293	0.15330	0.15379
____ BE	0.00038	191.24	6.461	0.00041	0.00036	0.00039
____ CA	59.30858	54,027.98	0.142	59.40495	59.24730	59.27347
____ CD	-0.00050	14.24	16.862	-0.00059	-0.00048	-0.00043
____ CO	0.00640	19.87	1.331	0.00631	0.00647	0.00644
____ CR	0.05319	616.65	0.729	0.05285	0.05310	0.05361
____ CU	0.10396	1,456.01	0.689	0.10479	0.10350	0.10360
____ FE	21.97771	7,582.47	0.434	21.89148	22.08024	21.96142
____ K	2.03932	864.13	1.712	2.07589	2.03572	2.00634
____ LI	0.00949	115.34	15.914	0.01045	0.00775	0.01028
____ MG	28.77527	47,542.39	0.217	28.84050	28.71600	28.76932
____ MN	0.32106	22,312.44	0.368	0.31969	0.32180	0.32167
____ MO	0.00298	9.71	8.412	0.00325	0.00275	0.00294
____ NA	0.11997	179.41	10.689	0.13104	0.12295	0.10592
____ NI	0.02610	47.59	3.697	0.02505	0.02695	0.02629
____ P	0.42459	132.52	0.493	0.42597	0.42561	0.42218
____ PB	0.39013	353.13	0.422	0.38943	0.39201	0.38895
____ S	1.76859	137.42	0.334	1.76263	1.77443	1.76872
____ SB	0.00177	1.40	81.636	0.00251	0.00270	0.00011
____ SE	0.00528	4.79	46.238	0.00333	0.00801	0.00449
____ SI	0.79287	148.55	1.104	0.78744	0.80297	0.78820
____ SN	0.01228	5.87	10.778	0.01357	0.01092	0.01237
____ SR	0.07248	35,868.39	0.263	0.07226	0.07263	0.07254
____ TI	0.45955	28,422.96	0.382	0.45754	0.46030	0.46079
____ TL	-0.00488	-9.57	31.367	-0.00311	-0.00573	-0.00579
____ V	0.04185	457.11	0.828	0.04145	0.04205	0.04204
____ Y1	7419.72997	7,419.73	0.046	7418.04149	7423.67224	7417.47618
____ Y2A	458841.88327	458,841.88	0.272	457977.31204	458274.65093	460273.68684
____ Y2R	32318.05684	32,318.06	0.425	32167.05295	32351.63467	32435.48290
____ ZN	0.17139	2,298.04	0.176	0.17104	0.17158	0.17155
____ ZR	0.00675	2.13	67.784	0.00739	0.00189	0.01098

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LANCASTER LABORATORIES

Run Name: 1220207T70 | Instrument ID: 11016

Tube: 26 | Date/Time: 07/20/2012 19:18

Sample Number: **6721503** | Class: **** | Batch: 122005708003

Initial Vol: 1.02 | Final Vol: 100.00 | DF: 1.00 | Protocol Symbol: S

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00619	-59.07	2.245	0.00628	0.00603	0.00626
AL	133.23209	257,892.35	0.178	133.50569	133.10930	133.08126
AS	0.03221	6.47	10.899	0.03105	0.02943	0.03616
B	0.10242	3,257.14	3.846	0.10658	0.10196	0.09874
BA	1.80384	682,307.68	1.119	1.78062	1.81724	1.81366
BE	0.00364	1,592.16	0.512	0.00364	0.00366	0.00362
CA	90.67037	83,735.41	0.322	90.80288	90.33547	90.87274
CD	-0.00002	321.84	1995.362	0.00047	-0.00008	-0.00046
CO	0.08921	314.00	0.233	0.08911	0.08906	0.08945
CR	0.34818	4,049.75	0.211	0.34882	0.34835	0.34738
CU	0.56904	6,893.20	0.053	0.56938	0.56879	0.56896
FE	227.42732	80,561.05	0.930	225.22910	227.60437	229.44849
K	36.39711	15,294.85	0.455	36.47054	36.20738	36.51342
LI	0.07540	709.80	1.086	0.07586	0.07445	0.07588
MG	60.49376	100,532.44	0.301	60.69467	60.33882	60.44779
MN	2.73368	189,775.51	0.080	2.73617	2.73203	2.73283
MO	0.00780	25.38	1.577	0.00794	0.00771	0.00775
NA	1.63891	1,721.99	1.017	1.65101	1.61989	1.64581
NI	0.31947	438.88	0.263	0.32040	0.31925	0.31876
P	8.16660	2,537.67	0.363	8.13240	8.18461	8.18280
PB	0.73180	665.38	0.185	0.73336	0.73099	0.73105
S	5.70565	428.65	0.369	5.69271	5.69430	5.72994
SB	0.01414	9.34	26.619	0.01499	0.01003	0.01741
SE	0.00480	5.95	29.491	0.00643	0.00387	0.00409
SI	8.72294	1,638.99	0.220	8.72553	8.70263	8.74067
SN	0.03566	14.52	3.767	0.03713	0.03533	0.03451
SR	0.39302	194,253.07	0.082	0.39303	0.39270	0.39334
TI	11.00084	679,139.41	0.482	10.98598	11.05973	10.95681
TL	-0.03917	-41.26	10.308	-0.04060	-0.03461	-0.04229
V	0.36361	4,064.62	0.210	0.36277	0.36424	0.36383
Y1	7299.71574	7,299.72	0.243	7279.46258	7307.30928	7312.37537
Y2A	458355.40226	458,355.40	0.437	460665.54189	457070.27926	457330.38564
Y2R	32811.77521	32,811.78	0.541	32611.50350	32949.21594	32874.60618
ZN	0.68688	9,094.87	0.149	0.68781	0.68579	0.68705
ZR	0.02107	26.89	7.681	0.02229	0.01923	0.02169

ASX73 2338

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 27

Date/Time: 07/20/2012 19:22

Sample Number: **LLC**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00497	112.76	4.109	0.00503	0.00514	0.00475
AL	0.20250	1,016.96	5.113	0.19877	0.21420	0.19453
AS	0.01721	2.26	18.163	0.01734	0.01402	0.02027
B	0.05213	516.85	2.022	0.05221	0.05314	0.05104
BA	0.00543	2,208.82	2.081	0.00555	0.00542	0.00533
BE	0.00495	2,228.34	1.278	0.00495	0.00501	0.00489
CA	0.23812	370.69	4.061	0.24357	0.24384	0.22695
CD	0.00456	46.26	2.206	0.00467	0.00456	0.00447
CO	0.00377	9.99	6.342	0.00393	0.00388	0.00350
CR	0.01484	175.40	1.769	0.01454	0.01494	0.01503
CU	0.00945	235.87	2.993	0.00946	0.00916	0.00972
FE	0.30828	111.52	4.371	0.32225	0.30725	0.29536
K	0.51478	237.54	8.073	0.49331	0.56268	0.48834
LI	0.02053	216.24	2.718	0.02117	0.02026	0.02016
MG	0.12610	214.01	1.963	0.12873	0.12573	0.12383
MN	0.00590	424.47	2.938	0.00605	0.00594	0.00571
MO	0.01012	34.53	0.689	0.01019	0.01013	0.01005
NA	0.95802	1,031.02	0.782	0.95914	0.95004	0.96489
NI	0.01012	26.95	6.225	0.00993	0.01082	0.00961
P	0.10134	31.19	2.861	0.10272	0.09801	0.10330
PB	0.01199	17.44	5.924	0.01251	0.01118	0.01227
S	0.83265	68.46	0.779	0.83969	0.82691	0.83136
SB	0.01877	9.64	6.940	0.02018	0.01854	0.01760
SE	0.02265	9.47	9.714	0.02146	0.02130	0.02519
SI	0.21603	42.53	3.592	0.20752	0.22271	0.21785
SN	0.01972	8.95	4.802	0.01959	0.01884	0.02073
SR	0.00506	2,597.55	0.910	0.00510	0.00508	0.00501
TI	0.01389	912.02	1.677	0.01390	0.01411	0.01365
TL	0.02506	8.58	6.387	0.02686	0.02451	0.02381
V	0.00478	45.82	8.727	0.00439	0.00522	0.00473
Y1	7636.23124	7,636.23	0.231	7653.68952	7618.47756	7636.52664
Y2A	474055.96107	474,055.96	0.455	475062.67419	471578.79894	475526.41009
Y2R	32788.76762	32,788.77	0.750	32871.57568	32982.65082	32512.07636
ZN	0.01964	288.17	0.287	0.01968	0.01957	0.01965
ZR	0.04788	73.14	2.080	0.04713	0.04750	0.04901

ASX73 2339

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 28

Date/Time: 07/20/2012 19:25

Sample Number: **ICSA**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.00038	-48.67	107.839	-0.00009	0.00058	0.00067
___ AL	485.25940	879,926.65	1.609	488.16297	491.19780	476.41744
___ AS	0.00810	2.64	81.054	0.00163	0.01476	0.00792
___ B	0.06627	2,383.37	3.084	0.06653	0.06410	0.06817
___ BA	0.00048	241.97	2.777	0.00048	0.00047	0.00049
___ BE	-0.00007	-5.18	23.923	-0.00005	-0.00007	-0.00009
___ CA	477.32906	408,045.04	0.918	476.78329	473.24349	481.96040
___ CD	-0.00134	232.81	36.201	-0.00124	-0.00187	-0.00092
___ CO	0.00056	0.41	67.175	0.00061	0.00016	0.00090
___ CR	0.00285	27.71	14.254	0.00315	0.00301	0.00239
___ CU	0.01296	152.82	4.046	0.01330	0.01322	0.01235
___ FE	193.19568	62,941.32	1.771	194.26916	195.95100	189.36688
___ K	0.04912	39.45	39.138	0.03176	0.06978	0.04580
___ LI	0.01005	113.91	7.983	0.01038	0.00913	0.01063
___ MG	471.88791	642,888.39	1.339	476.13590	464.62937	474.89846
___ MN	0.00303	194.86	1.574	0.00308	0.00300	0.00300
___ MO	-0.00008	-0.45	472.488	-0.00051	0.00021	0.00005
___ NA	0.04936	103.22	17.838	0.03937	0.05600	0.05272
___ NI	-0.00059	5.46	53.896	-0.00025	-0.00088	-0.00065
___ P	-0.00062	-1.72	441.264	-0.00045	0.00202	-0.00344
___ PB	0.00176	54.99	159.698	0.00059	0.00495	-0.00027
___ S	-0.06061	-1.04	27.632	-0.04206	-0.07463	-0.06513
___ SB	0.01318	5.89	45.051	0.01266	0.01936	0.00752
___ SE	0.00200	4.29	228.987	0.00269	-0.00288	0.00618
___ SI	0.08116	16.10	15.671	0.08883	0.08818	0.06648
___ SN	0.00089	1.37	142.325	0.00000	0.00032	0.00233
___ SR	0.00286	1,313.20	1.327	0.00285	0.00290	0.00282
___ TI	0.00075	64.12	20.414	0.00072	0.00061	0.00091
___ TL	0.00492	-7.72	21.335	0.00612	0.00450	0.00415
___ V	-0.00168	9.98	18.551	-0.00202	-0.00161	-0.00141
___ Y1	6646.86827	6,646.87	0.024	6648.69507	6645.90517	6646.00457
___ Y2A	423546.54255	423,546.54	1.460	422314.67753	418070.34574	430254.60439
___ Y2R	30614.55239	30,614.55	0.488	30525.74746	30786.91332	30530.99640
___ ZN	0.00526	307.97	5.222	0.00522	0.00501	0.00556
___ ZR	-0.01417	-31.69	10.814	-0.01593	-0.01314	-0.01343

ASX73 2340

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 29

Date/Time: 07/20/2012 19:30

Sample Number: **ICSAB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.22647	3,822.70	1.057	0.22738	0.22375	0.22827
AL	483.20772	874,294.68	0.707	481.79598	480.72263	487.10454
AS	0.10720	17.78	0.826	0.10666	0.10822	0.10673
B	0.06538	2,378.34	5.322	0.06454	0.06240	0.06920
BA	0.53194	185,545.68	1.291	0.53500	0.52408	0.53675
BE	0.50827	201,678.11	1.302	0.50880	0.50140	0.51461
CA	472.98337	408,604.51	0.215	473.78510	471.84251	473.32249
CD	0.96047	11,024.40	0.179	0.96045	0.95876	0.96219
CO	0.48430	1,243.24	0.055	0.48435	0.48401	0.48453
CR	0.48382	5,188.75	1.406	0.48525	0.47642	0.48980
CU	0.57293	7,011.87	1.069	0.57339	0.56660	0.57882
FE	194.37358	63,196.33	1.171	193.81335	192.43058	196.87680
K	-0.01007	16.38	327.615	0.02617	-0.03839	-0.01799
LI	0.01136	126.25	5.224	0.01068	0.01162	0.01177
MG	475.17023	653,450.70	0.674	476.06478	471.61617	477.82975
MN	0.48272	30,892.36	1.514	0.48376	0.47495	0.48945
MO	-0.00106	-3.38	25.246	-0.00130	-0.00077	-0.00110
NA	0.04739	102.38	9.315	0.05142	0.04807	0.04267
NI	0.94399	1,176.23	0.417	0.94333	0.94042	0.94822
P	-0.00078	-0.97	231.571	-0.00282	0.00061	-0.00013
PB	0.05108	94.65	5.677	0.04878	0.05434	0.05012
S	-0.06373	-1.26	13.200	-0.07335	-0.06011	-0.05773
SB	0.64202	283.43	0.976	0.63488	0.64661	0.64458
SE	0.05015	15.75	14.908	0.04363	0.04851	0.05831
SI	0.05468	11.58	10.509	0.06052	0.04903	0.05450
SN	-0.00113	0.69	152.857	-0.00139	-0.00271	0.00071
SR	0.00281	1,291.05	1.021	0.00278	0.00282	0.00284
TI	-0.00034	66.73	37.081	-0.00048	-0.00023	-0.00031
TL	0.08679	35.18	1.007	0.08629	0.08780	0.08628
V	0.50430	5,117.31	1.451	0.50706	0.49600	0.50983
Y1	6676.49346	6,676.49	0.189	6672.58584	6690.60330	6666.29126
Y2A	422570.40669	422,570.41	0.843	421238.23138	426606.74867	419866.24003
Y2R	30935.24963	30,935.25	0.500	30756.79093	31026.74905	31022.20891
ZN	1.02181	12,400.46	0.207	1.02265	1.01940	1.02338
ZR	-0.01494	-33.29	13.046	-0.01357	-0.01717	-0.01407

ASX73 2341

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 30

Date/Time: 07/20/2012 19:34

Sample Number: **CCV**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
___ AG	0.50093	9,663.74	1.101	0.49784	0.49766	0.50730
___ AL	24.11145	47,523.87	1.130	23.92683	23.98325	24.42427
___ AS	0.49344	83.43	1.098	0.49101	0.48965	0.49964
___ B	0.48801	4,803.24	1.038	0.48565	0.48455	0.49382
___ BA	0.50439	192,907.75	0.958	0.50171	0.50150	0.50997
___ BE	0.49665	216,073.45	1.121	0.49404	0.49287	0.50305
___ CA	24.99983	22,788.03	0.499	24.85743	25.05203	25.09004
___ CD	0.49767	6,259.13	0.238	0.49800	0.49864	0.49635
___ CO	0.49403	1,419.26	0.257	0.49445	0.49504	0.49261
___ CR	0.49974	5,876.37	1.210	0.49612	0.49638	0.50672
___ CU	0.50324	6,817.29	0.794	0.49963	0.50255	0.50754
___ FE	25.05524	8,731.23	1.354	24.79944	24.92609	25.44020
___ K	24.53548	10,124.60	0.213	24.48373	24.53447	24.58824
___ LI	0.49918	4,436.27	0.527	0.50189	0.49664	0.49900
___ MG	24.49516	40,371.06	0.194	24.44972	24.49128	24.54448
___ MN	0.49654	34,841.54	1.102	0.49344	0.49331	0.50286
___ MO	0.49511	1,660.37	0.267	0.49607	0.49567	0.49361
___ NA	24.00813	23,942.76	0.257	23.98022	24.07893	23.96523
___ NI	0.49429	696.24	0.112	0.49491	0.49408	0.49387
___ P	0.50040	157.78	0.292	0.49874	0.50148	0.50098
___ PB	0.50464	479.17	0.620	0.50411	0.50800	0.50181
___ S	0.78925	63.53	1.377	0.78555	0.80148	0.78072
___ SB	0.51112	252.83	0.469	0.51265	0.51236	0.50836
___ SE	0.49578	134.24	0.608	0.49241	0.49674	0.49821
___ SI	24.98362	4,602.75	0.219	24.92818	24.98531	25.03737
___ SN	0.49356	189.94	0.446	0.49153	0.49589	0.49325
___ SR	0.50262	251,101.03	0.877	0.50425	0.49763	0.50597
___ TI	0.49597	31,119.38	1.118	0.49298	0.49257	0.50238
___ TL	0.47974	268.59	0.486	0.48226	0.47930	0.47765
___ V	0.50133	5,521.66	0.977	0.49901	0.49803	0.50696
___ Y1	7455.75710	7,455.76	0.208	7450.18317	7443.81162	7473.27649
___ Y2A	463320.41954	463,320.42	1.002	466715.36165	465215.31188	458030.58511
___ Y2R	32197.88433	32,197.88	0.051	32207.16996	32179.09689	32207.38614
___ ZN	0.48163	6,450.88	0.201	0.48185	0.48247	0.48057
___ ZR	0.52445	879.57	0.374	0.52262	0.52420	0.52652

ASX73 2352

LANCASTER LABORATORIES

Run Name: 1220207T70

Instrument ID: 11016

Tube: 31

Date/Time: 07/20/2012 19:37

Sample Number: **CCB**

ELEMENT	AVERAGE CONC (ppm)	AVERAGE INTENSITY	%RSD	INTEGRATIONS #1	#2	#3
AG	0.00017	11.60	208.558	-0.00003	0.00056	-0.00004
AL	0.03699	683.15	13.367	0.03689	0.03210	0.04199
AS	0.00062	-0.63	485.918	0.00239	-0.00287	0.00235
B	0.00041	22.28	96.062	0.00063	0.00065	-0.00004
BA	0.00016	144.49	6.641	0.00017	0.00015	0.00016
BE	0.00016	95.35	20.027	0.00019	0.00015	0.00013
CA	0.06576	207.18	5.457	0.06933	0.06215	0.06579
CD	-0.00044	-18.40	11.353	-0.00039	-0.00046	-0.00048
CO	-0.00092	-3.87	22.101	-0.00073	-0.00113	-0.00090
CR	-0.00012	-4.67	150.467	-0.00026	0.00009	-0.00019
CU	-0.00006	105.53	520.852	-0.00021	0.00029	-0.00025
FE	0.02578	11.08	31.657	0.03472	0.01873	0.02390
K	0.01579	27.60	19.039	0.01698	0.01237	0.01803
LI	0.00031	33.77	657.270	0.00265	-0.00076	-0.00097
MG	0.05266	87.99	1.505	0.05190	0.05348	0.05261
MN	0.00012	9.45	40.298	0.00018	0.00008	0.00011
MO	0.00067	2.07	56.229	0.00109	0.00055	0.00037
NA	0.01009	69.26	85.997	0.00561	0.00457	0.02009
NI	0.00024	12.93	189.314	0.00072	0.00017	-0.00017
P	-0.00342	-2.90	9.797	-0.00375	-0.00344	-0.00308
PB	-0.00067	5.71	128.790	-0.00161	0.00008	-0.00048
S	-0.00334	3.27	239.112	-0.01094	-0.00406	0.00498
SB	-0.00237	-1.02	96.474	-0.00260	0.00002	-0.00453
SE	0.00234	3.98	86.187	0.00410	0.00014	0.00280
SI	0.01390	4.53	45.463	0.00661	0.01738	0.01773
SN	0.00001	1.23	3410.154	-0.00078	-0.00111	0.00193
SR	0.00011	65.27	14.326	0.00010	0.00010	0.00013
TI	0.00035	45.84	25.392	0.00031	0.00029	0.00045
TL	-0.00400	-8.44	5.031	-0.00393	-0.00385	-0.00423
V	0.00009	-6.85	178.516	0.00026	-0.00006	0.00007
Y1	7634.43132	7,634.43	0.222	7653.21563	7620.37370	7629.70464
Y2A	471138.45941	471,138.46	0.154	471818.09887	470371.94758	471225.33179
Y2R	32100.84748	32,100.85	0.185	32058.01276	32168.47848	32076.05122
ZN	0.00008	22.68	29.836	0.00007	0.00006	0.00011
ZR	0.00129	-7.11	71.586	0.00042	0.00226	0.00119

A3X73 2343

Mercury Data

ASX73 2344

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1220703M07

Mercury Run Data Report

Data File Name: 1220710.M07

Run Name: 1220703M07

Instrument No.: 17384

Element: Hg

Analyst Employee ID: 0354

Reviewed By
Damary Valentin

Reviewed Date
07/25/2012 5:38PM

Method Reference Name(s):
SW-846 7471A

Verified By:
Jennifer L Moyer

Verified Date
07/26/2012 7:06AM

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

1 Burn Date/Time: 07/25/2012 13:50

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0		1	1	1.00

AVG (ppb)	Intensity
0.0000	-64.0

2 Burn Date/Time: 07/25/2012 13:52

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0.2		1	1	1.00

AVG (ppb)	Intensity
0.0000	1767.0

3 Burn Date/Time: 07/25/2012 13:54

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S0.5		1	1	1.00

AVG (ppb)	Intensity
0.0000	4595.0

4 Burn Date/Time: 07/25/2012 13:56

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S1		1	1	1.00

AVG (ppb)	Intensity
0.0000	8499.0

5 Burn Date/Time: 07/25/2012 13:58

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S2.5		1	1	1.00

AVG (ppb)	Intensity
0.0000	21385.0

6 Burn Date/Time: 07/25/2012 14:00

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
S5		1	1	1.00

AVG (ppb)	Intensity
0.0000	42316.0

CorrelationCoefficient = 0.99995

ASX73 2346

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

7 Burn Date/Time: 07/25/2012 14:02

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
ICV		1	1	1.00

AVG (ppb)	Intensity
2.6647	22648.0

8 Burn Date/Time: 07/25/2012 14:04

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
ICB		1	1	1.00

AVG (ppb)	Intensity
-0.0214	-61.0

9 Burn Date/Time: 07/25/2012 14:06

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CRA		1	1	1.00

AVG (ppb)	Intensity
0.1978	1792.0

10 Burn Date/Time: 07/25/2012 14:08

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 1		1	1	1.00

AVG (ppb)	Intensity
1.0622	9100.0

11 Burn Date/Time: 07/25/2012 14:10

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 1		1	1	1.00

AVG (ppb)	Intensity
-0.0051	76.0

12 Burn Date/Time: 07/25/2012 14:12

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBS	**********	0.6207	100	1.00	122005711002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0060	170.0		

ASX73 2347

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

13

Burn Date/Time: 07/25/2012 14:14

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSW	**********	1.0000	100	1.00	122005711002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0144	8696.0		

14

Burn Date/Time: 07/25/2012 14:16

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6721497	U*********	0.6092	100	1.00	122005711002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.7600	6545.0		

15

Burn Date/Time: 07/25/2012 14:18

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6721497	UP********	0.6092	100	1.00	122005711002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.7073	14554.0		

16

Burn Date/Time: 07/25/2012 14:20

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6721497	D*********	0.6188	100	1.00	122005711002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.6575	5678.0		

17

Burn Date/Time: 07/25/2012 14:22

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6721497	R*********	0.6089	100	1.00	122005711002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.6485	14057.0		

18

Burn Date/Time: 07/25/2012 14:24

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6721497	M*********	0.6062	100	1.00	122005711002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.9826	16881.0		

A9X73 2348

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

19 Burn Date/Time: 07/25/2012 14:26

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6721503	**********	0.6050	100	1.00	122005711002

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.6420	5547.0		

20 Burn Date/Time: 07/25/2012 14:28

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBS	**********	0.6295	100	1.00	122025711003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0088	45.0		

21 Burn Date/Time: 07/25/2012 14:30

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSW	**********	1.0000	100	1.00	122025711003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.9656	8283.0		

22 Burn Date/Time: 07/25/2012 14:32

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 2		1	1	1.00

AVG (ppb)	Intensity
1.0552	9041.0

23 Burn Date/Time: 07/25/2012 14:34

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 2		1	1	1.00

AVG (ppb)	Intensity
-0.0029	95.0

24 Burn Date/Time: 07/25/2012 14:36

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6727400	U*********	0.6204	100	1.00	122025711003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0549	584.0		

ASX73 2349

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

25 Burn Date/Time: 07/25/2012 14:38

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6727400	UP********	0.6204	100	1.00	122025711003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.9264	7952.0		

26 Burn Date/Time: 07/25/2012 14:40

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6727400	D*********	0.6131	100	1.00	122025711003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0376	437.0		

27 Burn Date/Time: 07/25/2012 14:42

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6727400	R*********	0.6130	100	1.00	122025711003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0636	9112.0		

28 Burn Date/Time: 07/25/2012 14:44

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6727400	M*********	0.6339	100	1.00	122025711003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0535	9026.0		

29 Burn Date/Time: 07/25/2012 14:47

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6727401	**********	0.6154	100	1.00	122025711003

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0297	371.0		

30 Burn Date/Time: 07/25/2012 14:49

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBS	**********	0.6071	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0063	66.0		

ASX73 2359

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

31 Burn Date/Time: 07/25/2012 14:51

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSW	**********	1.0000	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0054	8620.0		

32 Burn Date/Time: 07/25/2012 14:53

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722520	U*********	0.6066	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.6149	5318.0		

33 Burn Date/Time: 07/25/2012 14:55

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722520	UP********	0.6066	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.5905	13566.0		

34 Burn Date/Time: 07/25/2012 14:57

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 3		1	1	1.00

AVG (ppb)	Intensity
1.0593	9075.0

35 Burn Date/Time: 07/25/2012 14:59

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 3		1	1	1.00

AVG (ppb)	Intensity
-0.0072	59.0

36 Burn Date/Time: 07/25/2012 15:01

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722520	D*********	0.6295	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.4515	3937.0		

ASX73 2391

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

37 Burn Date/Time: 07/25/2012 15:03

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722520	R**********	0.6247	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.6394	13980.0		

38 Burn Date/Time: 07/25/2012 15:05

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722520	M**********	0.6302	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.7590	14991.0		

39 Burn Date/Time: 07/25/2012 15:07

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722521	**********	0.6412	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.9683	8306.0		

40 Burn Date/Time: 07/25/2012 15:09

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722522	**********	0.6073	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.8142	7003.0		

41 Burn Date/Time: 07/25/2012 15:11

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722523	**********	0.6150	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.4647	4048.0		

42 Burn Date/Time: 07/25/2012 15:13

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722524	**********	0.6059	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.8927	7667.0		

ASX73 2352

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

43 Burn Date/Time: 07/25/2012 15:15

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722525	**********	0.6398	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	2.1712	18476.0		

44 Burn Date/Time: 07/25/2012 15:17

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722526	**********	0.6345	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.0000	271408.0		

45 Burn Date/Time: 07/25/2012 15:19

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722527	**********	0.6242	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.7477	14895.0		

46 Burn Date/Time: 07/25/2012 15:21

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 4		1	1	1.00

AVG (ppb)	Intensity
1.0524	9017.0

47 Burn Date/Time: 07/25/2012 15:23

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 4		1	1	1.00

AVG (ppb)	Intensity
-0.0062	67.0

48 Burn Date/Time: 07/25/2012 15:25

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722528	**********	0.6109	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.3262	2877.0		

ASX73 2353

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

49 Burn Date/Time: 07/25/2012 15:27

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722529	**********	0.6046	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.2673	2379.0		

50 Burn Date/Time: 07/25/2012 15:29

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722530	**********	0.6238	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	2.0492	17444.0		

51 Burn Date/Time: 07/25/2012 15:31

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722531	**********	0.6056	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	13.1548	111336.0		

52 Burn Date/Time: 07/25/2012 15:33

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722532	**********	0.6130	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	3.1806	27010.0		

53 Burn Date/Time: 07/25/2012 15:35

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722533	**********	0.6080	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	9.8857	83698.0		

54 Burn Date/Time: 07/25/2012 15:37

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722534	**********	0.6426	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	10.4748	88678.0		

ASX73 2354

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

55 Burn Date/Time: 07/25/2012 15:39

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722535	**********	0.6121	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	5.0268	42618.0		

56 Burn Date/Time: 07/25/2012 15:41

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722536	**********	0.6350	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	10.1050	85552.0		

57 Burn Date/Time: 07/25/2012 15:43

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722537	**********	0.6070	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	19.4357	164438.0		

58 Burn Date/Time: 07/25/2012 15:45

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 5		1	1	1.00

AVG (ppb)	Intensity
0.9371	8042.0

59 Burn Date/Time: 07/25/2012 15:47

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 5		1	1	1.00

AVG (ppb)	Intensity
-0.0062	67.0

60 Burn Date/Time: 07/25/2012 15:49

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722538	**********	0.6034	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.8071	6943.0		

ASX73 2355

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

61 Burn Date/Time: 07/25/2012 15:51

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722539	**********	0.6142	100	1.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.3794	11782.0		

62 Burn Date/Time: 07/25/2012 15:53

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722526	**********	0.6345	100	50.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.9983	8560.0		

63 Burn Date/Time: 07/25/2012 15:55

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722531	**********	0.6056	100	5.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.9665	16745.0		

64 Burn Date/Time: 07/25/2012 15:57

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722533	**********	0.6080	100	5.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.5096	12882.0		

65 Burn Date/Time: 07/25/2012 15:59

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722534	**********	0.6426	100	5.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.6748	14279.0		

66 Burn Date/Time: 07/25/2012 16:01

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722535	**********	0.6121	100	2.50	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.4780	12615.0		

ASX73 2356

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

67 Burn Date/Time: 07/25/2012 16:03

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722536	**********	0.6350	100	5.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.5928	13586.0		

68 Burn Date/Time: 07/25/2012 16:05

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722537	**********	0.6070	100	10.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.3590	11609.0		

69 Burn Date/Time: 07/25/2012 16:07

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722526	**********	0.6345	100	25.00	122015711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.9308	16443.0		

70 Burn Date/Time: 07/25/2012 16:09

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 6		1	1	1.00

AVG (ppb)	Intensity
1.0587	9070.0

71 Burn Date/Time: 07/25/2012 16:11

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 6		1	1	1.00

AVG (ppb)	Intensity
-0.0035	90.0

72 Burn Date/Time: 07/25/2012 16:13

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
PBS	**********	0.6161	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	-0.0095	39.0		

ASX73 2357

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

73 Burn Date/Time: 07/25/2012 16:15

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
LCSW	**********	1.0000	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.9666	8292.0		

74 Burn Date/Time: 07/25/2012 16:17

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6726597	**********	0.6235	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.8166	15478.0		

75 Burn Date/Time: 07/25/2012 16:19

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6726613	U*********	0.6239	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.0143	8695.0		

76 Burn Date/Time: 07/25/2012 16:22

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6726613	UP********	0.6239	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.8773	15991.0		

77 Burn Date/Time: 07/25/2012 16:24

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6726613	D*********	0.6237	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.5747	4978.0		

78 Burn Date/Time: 07/25/2012 16:26

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6726613	R*********	0.6311	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.7403	14833.0		

ASX73 2358

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

79 Burn Date/Time: 07/25/2012 16:28

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6726613	M*********	0.6119	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.8213	15518.0		

80 Burn Date/Time: 07/25/2012 16:30

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722540	**********	0.6092	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	3.7096	31482.0		

81 Burn Date/Time: 07/25/2012 16:32

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722541	**********	0.6153	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.9957	8538.0		

82 Burn Date/Time: 07/25/2012 16:34

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 7		1	1	1.00

AVG (ppb)	Intensity
1.0492	8990.0

83 Burn Date/Time: 07/25/2012 16:36

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 7		1	1	1.00

AVG (ppb)	Intensity
-0.0054	74.0

84 Burn Date/Time: 07/25/2012 16:38

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722542	**********	0.6129	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	3.2683	27751.0		

ASX73 2359

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

85 Burn Date/Time: 07/25/2012 16:40

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722543	**********	0.6189	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.2448	2189.0		

86 Burn Date/Time: 07/25/2012 16:42

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722544	**********	0.6172	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.2016	1824.0		

87 Burn Date/Time: 07/25/2012 16:44

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722545	**********	0.6115	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.2600	10772.0		

88 Burn Date/Time: 07/25/2012 16:46

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722546	**********	0.6265	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	5.0986	43225.0		

89 Burn Date/Time: 07/25/2012 16:48

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722547	**********	0.6263	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.2279	2046.0		

90 Burn Date/Time: 07/25/2012 16:50

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722548	**********	0.6198	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.2754	2448.0		

ASX73 2360

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

91

Burn Date/Time: 07/25/2012 16:52

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722549	**********	0.6187	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.1208	1141.0		

92

Burn Date/Time: 07/25/2012 16:54

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722550	**********	0.6043	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	4.0835	34643.0		

93

Burn Date/Time: 07/25/2012 16:56

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722551	**********	0.6163	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	5.5053	46664.0		

94

Burn Date/Time: 07/25/2012 16:58

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 8		1	1	1.00

AVG (ppb)	Intensity
1.0371	8888.0

95

Burn Date/Time: 07/25/2012 17:00

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 8		1	1	1.00

AVG (ppb)	Intensity
0.0157	252.0

96

Burn Date/Time: 07/25/2012 17:02

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722552	**********	0.6379	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	4.9150	41673.0		

ASX73 2361

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

97 Burn Date/Time: 07/25/2012 17:04

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722553	**********	0.6251	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	3.4910	29634.0		

98 Burn Date/Time: 07/25/2012 17:06

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722554	**********	0.6226	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	4.2927	36412.0		

99 Burn Date/Time: 07/25/2012 17:08

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722555	**********	0.6183	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	2.3350	19861.0		

100 Burn Date/Time: 07/25/2012 17:10

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722556	**********	0.6196	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	0.2580	2301.0		

101 Burn Date/Time: 07/25/2012 17:12

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722559	**********	0.6211	100	1.00	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	2.2494	19137.0		

102 Burn Date/Time: 07/25/2012 17:14

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722546	**********	0.6265	100	2.50	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.4600	12463.0		

ASX73 2362

LANCASTER LABORATORIES

Run Name: 1220703M07

Analyst ID: 0354

Instrument ID: 17384

CV Element: Hg

103

Burn Date/Time: 07/25/2012 17:16

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722551	**********	0.6163	100	2.50	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.6703	14241.0		

104

Burn Date/Time: 07/25/2012 17:18

Sample Number	Class	Initial Vol / Wt	Final Vol	DF	Batch Number
6722552	**********	0.6379	100	2.50	122025711001

V	AVG (ppb)	Intensity	Re-read	Re-digest
	1.4573	12440.0		

105

Burn Date/Time: 07/25/2012 17:20

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CRA	**********	1	1	1.00

AVG (ppb)	Intensity
0.1829	1666.0

106

Burn Date/Time: 07/25/2012 17:23

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCV 9		1	1	1.00

AVG (ppb)	Intensity
1.0387	8901.0

107

Burn Date/Time: 07/25/2012 17:25

Sample Number	Class	Initial Vol / Wt	Final Vol	DF
CCB 9		1	1	1.00

AVG (ppb)	Intensity
0.0012	130.0

ASX73 2363

Extraction/Distillation/Digestion Logs

LLENS Worksheet for 5708 SW846 ICP/ICP MS Digest

Batch# 12 200 5708 003

Balance ID#: 10685 **Start Time:** 7/19/12 9:30 **End Time:** 7/19/12 14:40 **Hot Block:** 4

Pipette ID:

Reflux Cap Lot#: 1001171

Spike/Reagent	Lot#	Volume Added(mL)
1:1 HNO3	P12-152 E	10.00
30% H2O2	121417	4.00
HCL	4111100	10.00
HNO3	1111050	5.00
ICP Spike 1A	1209706#16	2.00
ICP Spike 1B	1209707#16	2.00
ICP/MS Spike	1213218 #3	2.00
LCS 1A	1209706#16	2.00
LCS 1B	1209707#16	2.00
LCS ICP/MS	1213218 #3	1.00

Method Ref: SW-846 3050B

	SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1)	PBS	.							1202052	Chemware boiling chips used Lot F523-2D031
2)	LCSW	.							1202052	1g boiling chips used Lot F523-2D031
3)	LCSW2	.							1202052	1g boiling chips used Lot F523-2D031
4)	**6721497U**	07/26/12 15:35		SW	N8			036a	1202052	
5)	**6721497R**	07/26/12 15:35		SW	N8			036a	1202052	
6)	**6721497R2**	07/26/12 15:35		SW	N8			036a	1202052	
7)	**6721497M**	07/26/12 15:35		SW	N8			036a	1202052	
8)	**6721497M2**	07/26/12 15:35		SW	N8			036a	1202052	
9)	**6721497D**	07/26/12 15:35		SW	N8			036a	1202052	
10)	6721503	07/26/12 15:35		SW	N8			036a	1202052	

Prep Employee: DC01155

7/19/2012

v 1.0.1

ASX73 2365

Batch# 12 200 5708 003

LLENS Batch Chronology and Change Log - SW846 ICP/ICP MS Digest

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/18/12 16:12	01155
2)	Sample Wt		7/19/12 9:17	01155
3)	Final Vol	10685	7/19/12 9:24	01155
4)	Trial		7/19/12 9:24	01155
5)	Upload Prep	EX08794	7/19/12 14:46	01155

Sample ID	Analysis	D	Operation	Measurement	Original Entry				Data Changed		
					Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason

Analysis: 5708 SW846 ICP/ICP MS Digest Batch# 12 200 5708 003

Sample ID	Due Date	P	EPA#	SDG#	Sample Wt	Final Volume	Trial
PBS					1.0300	100.0000	1
LCSW					1.0000	100.0000	1
LCSW2					1.0000	100.0000	1
6721497U	07/26/12	N8	49-0C	ASX73-04	1.0400	100.0000	1
6721497R	07/26/12	N8	49-0C	ASX73-04	1.0100	100.0000	1
6721497R2	07/26/12	N8	49-0C	ASX73-04	1.0100	100.0000	1
6721497M	07/26/12	N8	49-0C	ASX73-04	1.0200	100.0000	1
6721497M2	07/26/12	N8	49-0C	ASX73-04	1.0200	100.0000	1
6721497D	07/26/12	N8	49-0C	ASX73-04	1.0200	100.0000	1
6721503	07/26/12	N8	32-0C	ASX73-10	1.0200	100.0000	1

ASX73 23967

LLENS Worksheet for 5711 SW SW846 Hg Digest

Batch# 12 200 5711 002

Balance ID#: 10686 **Start Time:** 7/19/12 12:42 **End Time:** 7/19/12 13:12 **Hot Block:** 2

Pipette ID:

Reflux Cap Lot#: 1001171

Spike/Reagent	Lot#	Volume Added(mL)
5%KMnO4	P12-173 C	15.00
Aqua Regia	P12-201 A	5.00
LCS	P12-200 A	0.10
Spike 1ppm Hg	P12-200 A	0.10

Method Ref: SW-846 7471A modified

	SampleID	Date Due	C	ST	P	H	PH<2	BC	Vessel Lot#	Comments
1)	PBS	.							1202052	Chemware boiling chips used Lot F523-2D031
2)	LCSW	.							1202052	0.6g boiling chips used Lot F523-2D031
3)	**6721497U**	07/26/12 15:35		SW	N8			036a	1202052	
4)	**6721497D**	07/26/12 15:35		SW	N8			036a	1202052	
5)	**6721497R**	07/26/12 15:35		SW	N8			036a	1202052	
6)	**6721497M**	07/26/12 15:35		SW	N8			036a	1202052	
7)	6721503	07/26/12 15:35		SW	N8			036a	1202052	

Prep Employee: DC01155

7/19/2012

v 1.0.1

ASX73 2368

Batch# 12 200 5711 002

LLENS Batch Chronology and Change Log - SW SW846 Hg Digest

	Operation	Instrument	Operation Date	Analyst
1)	Batch Creation		7/18/12 16:19	01155
2)	Sample Wt	10686	7/19/12 10:51	01155
3)	Final Vol	10686	7/19/12 10:56	01155
4)	Trial		7/19/12 10:56	01155
5)	Upload Prep	EX08788	7/19/12 13:19	01155

Sample ID	Analysis	D	Operation	Measurement	Original Entry				Data Changed		
					Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason

Analysis: 5711 SW SW846 Hg Digest Batch# 12 200 5711 002

Sample ID	Due Date	P	EPA#	SDG#	Sample Wt	Final Volume	Trial
PBS					.6207	100.0000	1
LCSW					1.0000	100.0000	1
6721497U	07/26/12	N8	49-0C	ASX73-04	.6092	100.0000	1
6721497D	07/26/12	N8	49-0C	ASX73-04	.6188	100.0000	1
6721497R	07/26/12	N8	49-0C	ASX73-04	.6089	100.0000	1
6721497M	07/26/12	N8	49-0C	ASX73-04	.6062	100.0000	1
6721503	07/26/12	N8	32-0C	ASX73-10	.6050	100.0000	1

ASX73 2376

Moisture Data

ASX73 2371

eurofins | Lancaster Laboratories

CLIENT: Stantec
SDG: ASX73

MOISTURE

SAMPLE NUMBERS:

Sample #	Sample Code
6721494	49--0
6721495	49--2
6721496	49--4
6721497	49-0C
6721498	49--1
6721499	32--0
6721500	32--2
6721501	32--4
6721502	32--1
6721503	32-0C

Laboratory Compliance Quality Control

Analysis Name	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 12200820005A	Sample number(s): 6721494-6721503				
Moisture	100		99-101		

Sample Matrix Quality Control

Analysis Name	BKG Conc	DUP Conc	RPD	RPD Max
Batch number: 12200820005A	Sample number(s): 6721494-6721503			
Moisture	13.1	12.3	7	13

* - Outside of specification
(1) - The result for one or both determinations was less than five times the LOQ.

Moisture Data Report

Batch #: 12200820005

Sample ID	Batch ID	Analysis#	Tare Wt	Sample Wt	Dry Wt	%Moisture	Analysis Date (Emp#)	Verified Date (Emp#)
LCS 89.5% Std.			1.1027	5.0362	1.6311	89.51	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721494	A	00111	1.0981	7.8449	8.4763	5.95	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721495	A	00111	1.0855	8.6307	9.0437	7.79	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721496	A	00111	1.0984	9.3982	9.5675	9.89	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721497	A	00111	1.0781	9.9256	10.4004	6.08	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721498	A	00111	1.0758	8.9645	8.5539	16.58	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721499	A	00111	1.0870	9.0173	9.6663	4.86	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721500	A	00111	1.0804	7.6611	8.1976	7.10	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721501BKG	A	00111	1.0960	8.1406	8.1674	13.13	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721501DUP	A	00111	1.0625	8.3217	8.3646	12.25	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721502	A	00111	1.1006	6.7331	7.6771	2.33	7/18/12 (1201/SWF)	7/19/12 (0236/CW)
6721503	A	00111	1.1107	6.2587	7.1118	4.12	7/18/12 (1201/SWF)	7/19/12 (0236/CW)