Lancaster Laboratories

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NYSDEC ASP Category B Data Package

Prepared for:

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

Project: Patchogue, NY
Water Samples
Collected on 11/16/11-11/17/11

SDG# PCH09

GROUP	SAMPLE NUMBERS
1277546	6477561-6477577

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:** 12/16/2011

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Megan Moeller at Ext. 1246.

Total Number of Pages 867

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Sample Reference List for SDG Number PCH09 with a Data Package Type of NYSDEC B

09286 - Brown & Caldwell

Project: Patchogue, NY

Lab Sample Number	Lab Sample Code	Client Sample Description
6477561	PAT01	MW-1 Grab Water COC: 271730
6477562	PAT01	MW-1 Matrix Spike Grab Water COC: 271730
6477563	PAT01	MW-1 Matrix Spike Dup Grab Water COC: 271730
6477564	PAT03	MW-3 Grab Water COC: 271730
6477565	PAT8D	MW-8D Grab Water COC: 271730
6477566	PAT8S	MW-8S Grab Water COC: 271730
6477567	PATFD	DUP-111611 Grab Water COC: 271730
6477568	PAT9S	MW-9S Grab Water COC: 271730
6477569	PAT9D	MW-9D Grab Water COC: 271730
6477570	PAT4S	MW-4S Grab Water COC: 271730
6477571	PAT4D	MW-4D Grab Water COC: 271730
6477572	PATFB	FB-111711 Grab Water COC: 271730
6477573	PAT7S	MW-7S Grab Water COC: 192824
6477574	PAT7D	MW-7D Grab Water COC: 192824
6477575	PAT2D	MW-2D Grab Water COC: 192824
6477576	PAT2S	MW-2S Grab Water COC: 192824
6477577	PATTB	Trip Blank Water COC: 192824

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. # 9286 Group# 127546 Sample # 6477561-77

COC # 271730

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

(1) Client: Brown and Caldwell Acct. #:

Project Name/#: Patchogue/National Grid WSID #:

Project Manager: James Maroldo P.O.#:

Sampler: Charles Meyn/Brett Schertz Quote #:

Name of state where samples were collected: NY

For Lab Use Only
FSC:
SCR#:

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

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Matrix (4): Soil	Potable / NPDES (Check if Applicable)	Water	Other	Total # of Containers	(5) Analyses Requested / Preservation Codes: BTEX + MTBE	PAH's	Remarks	(6) Temperature of samples upon receipt (if requested)
MW-1 (MS/MSD)	11/16/11	11:25	X				X		5	X	X	Include MS/MSD	
MW-3	11/16/11	13:20	X				X		5	X	X		
MW-8D	11/16/11	14:55	X				X		5	X	X		
MW-8S	11/16/11	15:05	X				X		5	X	X		
DUP-111611	11/16/11	99:99	X				X		5	X	X		
MW-9S	11/17/11	7:50	X				X		5	X	X		
MW-9D	11/17/11	7:55	X				X		5	X	X		
MW-4S	11/17/11	9:20	X				X		5	X	X		
MW-4D	11/17/11	9:45	X				X		5	X	X		
FB-111711	11/17/11	10:00	X				X		5	X	X	Field Blank	

(7) **Turnaround Time Requested** (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax (E-mail)
Phone #: Fax #:
E-mail address: Jmaroldo@brwncald.com

(8) **Data Package Options** (please circle if required)
Type I (validation/NJ Reg)
Type II (Tier II)
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)
TX TRRP-13
MA MCP CT RCP
Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No

SDG Complete? Yes No

(9) Relinquished by:	Date	Time	Received by:	Date	Time
	11/18/11	1540			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	11/19/11	0950

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. # 9286 Group# 1277546 Sample # 6477561-77

COC # 192824

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

(1) Client: Brown and Caldwell Acct. #:

Project Name/#: Patchogue/Nutrient Grid PWSID #:

Project Manager: James Moulds P.O.#:

Sampler: Charles Mayo/Brett Schwartz Quote #:

Name of state where samples were collected: NY

(3) Matrix: GW = Groundwater, WW = Wastewater, DW = Drinking Water, Other

(4) # of containers

(5) Analyses Requested — Preservation Codes

(6) Preservation Codes: H=HCl T=Thiosulfate; N=HNO_3 B=NaOH; S=H_2SO_4 O=Other

(2) Sample Identification	Date Collected	Time Collected	(3) Matrix: GW	WW	DW	Other	(4) # of containers	(5) BTEX + MTBE	PAH's	Remarks
MW-7S	11/7/11	11:10	X			X	5	X	X	
MW-7D	11/7/11	11:15	X			X	5	X	X	
MW-2D	11/7/11	12:45	X			X	5	X	X	
MW-2S	11/7/11	12:50	X			X	5	X	X	
Trip Blank			X			X	2	X		

(7) **Turnaround Time Requested** (TAT) (please circle): (Normal) Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed:

Rush results requested by (please circle): Phone Fax (E-mail)

Phone #: Fax #:

E-mail address: jmoulds@brwncald.com

(8) **Data Package Options** (please circle if required)

Type I (validation/NJ Reg) TX TRRP-13

Type II (Tier II) MA MCP CT RCP

Type III (Reduced NJ) Site-specific QC (MS/MSD/Dup)? Yes No

Type IV (CLP SOW) (If yes, indicate QC sample and submit triplicate volume.)

Type VI (Raw Data Only) Internal COC Required? Yes / No

Category B

SDG Complete? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	11/8/11	1510			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
				11/8/11	1750

(9)

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Environmental Sample Administration
Receipt Documentation Log

Client/Project: BROWN & CALDWELL

Date of Receipt: 11/19/11

Time of Receipt: 0950

Source Code: 50-1

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	0737	1.3	TB	WI	Y	B	
2		1.8					
3		1.0					
4		1.3					
5		0.8					
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: 1454 **Date/Time:** 11/19/11 1055

PCN69 6004

Issued by Dept. 6042 Management

2174.06

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GC/MS Volatiles pH Log

Batch #: ~~Y113301AA~~ **

Y113322AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
6482077	<2	11/29/2011	NRR 1826	38A
6482078	<2	11/29/2011	NRR 1826	38A
6477561	<2	11/29/2011	NRR 1826	38A
6477562	<2	11/29/2011	NRR 1826	38A MS
6477563	<2	11/29/2011	NRR 1826	38A MSD
6477564	<2	11/29/2011	NRR 1826	38A
6477565	<2	11/29/2011	NRR 1826	38A
6477566	<2	11/29/2011	NRR 1826	38A
6477567	<2	11/29/2011	NRR 1826	38A
6477568(3)*	<2	11/29/2011	NRR 1826	38A
6477569	<2	11/29/2011	NRR 1826	38A
6477570	<2	11/29/2011	NRR 1826	38A
6477571	<2	11/29/2011	NRR 1826	38A
6477572	<2	11/29/2011	NRR 1826	38A
6477573	<2	11/29/2011	NRR 1826	38A
6477574	<2	11/29/2011	NRR 1826	38A
6477575	<2	11/29/2011	NRR 1826	38A
6477576	<2	11/29/2011	NRR 1826	38A
6477577	<2	11/29/2011	NRR 1826	38A
6477041	<2	11/29/2011	NRR 1826	38A

** wrong not 11/30/11 (7)

(3) *7AU 11/29/11

PCN89 6885

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01163 GC/MS 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

07807 BNA Water Extraction

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

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

07805 PAHs in Water by GC/MS

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

December 08, 2011

Project: Patchogue, NY

Submittal Date: 11/19/2011
Group Number: 1277546
SDG: PCH09
PO Number: 8971
State of Sample Origin: NY

Client Sample Description	Lancaster Labs (LLI) #
MW-1 Grab Water	6477561
MW-1 Matrix Spike Grab Water	6477562
MW-1 Matrix Spike Dup Grab Water	6477563
MW-3 Grab Water	6477564
MW-8D Grab Water	6477565
MW-8S Grab Water	6477566
DUP-111611 Grab Water	6477567
MW-9S Grab Water	6477568
MW-9D Grab Water	6477569
MW-4S Grab Water	6477570
MW-4D Grab Water	6477571
FB-111711 Grab Water	6477572
MW-7S Grab Water	6477573
MW-7D Grab Water	6477574
MW-2D Grab Water	6477575
MW-2S Grab Water	6477576
Trip Blank Water	6477577

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

ELECTRONIC COPY TO Brown & Caldwell Attn: Jim Marolda
1 COPY TO Data Package Group

PCH09=0007

Lancaster Laboratories

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300 Ext. 1246

Respectfully Submitted,

Matthew E. Barton
Senior Specialist

PCH07: 8888

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit
N.D.	none detected
TNTC	Too Numerous To Count
IU	International Units
umhos/cm	micromhos/cm
C	degrees Celsius
meq	milliequivalents
g	gram(s)
ug	microgram(s)
ml	milliliter(s)
m3	cubic meter(s)

BMQL	Below Minimum Quantitation Level
MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units
NTU	nephelometric turbidity units
ng	nanogram(s)
F	degrees Fahrenheit
lb.	pound(s)
kg	kilogram(s)
mg	milligram(s)
l	liter(s)
ul	microliter(s)

< 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.

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PCK89 8889

Analysis Report

Lancaster Laboratories

Sample Description: MW-1 Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477561
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/16/2011 11:25 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT01 SDG#: PCH09-01BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/28/2011 22:52	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/28/2011 22:52	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 12:52	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 0018

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Sample Description: MW-1 Matrix Spike Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477562
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/16/2011 11:25 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT01 SDG#: PCH09-01MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	**Benzene**	71-43-2	**22**	0.5	1
10903	**Ethylbenzene**	100-41-4	**21**	0.8	1
10903	**Methyl Tertiary Butyl Ether**	1634-04-4	**20**	0.5	1
10903	**Toluene**	108-88-3	**22**	0.7	1
10903	**m+p-Xylene**	179601-23-1	**42**	0.8	1
10903	**o-Xylene**	95-47-6	**20**	0.8	1
10903	**Xylene (Total)**	1330-20-7	**62**	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	
07805	**Acenaphthene**	83-32-9	**46**	0.1	1
07805	**Acenaphthylene**	208-96-8	**51**	0.1	1
07805	**Anthracene**	120-12-7	**49**	0.1	1
07805	**Benzo(a)anthracene**	56-55-3	**49**	0.1	1
07805	**Benzo(a)pyrene**	50-32-8	**48**	0.1	1
07805	**Benzo(b)fluoranthene**	205-99-2	**47**	0.1	1
07805	**Benzo(g,h,i)perylene**	191-24-2	**49**	0.1	1
07805	**Benzo(k)fluoranthene**	207-08-9	**48**	0.1	1
07805	**Chrysene**	218-01-9	**49**	0.1	1
07805	**Dibenz(a,h)anthracene**	53-70-3	**52**	0.1	1
07805	**Fluoranthene**	206-44-0	**53**	0.1	1
07805	**Fluorene**	86-73-7	**48**	0.1	1
07805	**Indeno(1,2,3-cd)pyrene**	193-39-5	**51**	0.1	1
07805	**Naphthalene**	91-20-3	**44**	0.1	1
07805	**Phenanthrene**	85-01-8	**48**	0.1	1
07805	**Pyrene**	129-00-0	**48**	0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/28/2011 23:13	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/28/2011 23:13	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 13:16	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

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

Lancaster Laboratories

Sample Description: MW-1 Matrix Spike Dup Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477563
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/16/2011 11:25 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT01 SDG#: PCH09-01MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10903	Benzene	71-43-2	21	0.5	1
10903	Ethylbenzene	100-41-4	20	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	1
10903	Toluene	108-88-3	21	0.7	1
10903	m+p-Xylene	179601-23-1	40	0.8	1
10903	o-Xylene	95-47-6	19	0.8	1
10903	Xylene (Total)	1330-20-7	59	0.8	1
GC/MS Semivolatiles	SW-846 8270C		ug/l	ug/l	
07805	Acenaphthene	83-32-9	46	0.1	1
07805	Acenaphthylene	208-96-8	51	0.1	1
07805	Anthracene	120-12-7	49	0.1	1
07805	Benzo(a)anthracene	56-55-3	49	0.1	1
07805	Benzo(a)pyrene	50-32-8	48	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	46	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	49	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	48	0.1	1
07805	Chrysene	218-01-9	47	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	51	0.1	1
07805	Fluoranthene	206-44-0	52	0.1	1
07805	Fluorene	86-73-7	48	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	40	0.1	1
07805	Naphthalene	91-20-3	45	0.1	1
07805	Phenanthrene	85-01-8	47	0.1	1
07805	Pyrene	129-00-0	47	0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/28/2011 23:33	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/28/2011 23:33	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 13:40	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

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

Analysis Report

Lancaster Laboratories

Sample Description: MW-3 Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477564
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/16/2011 13:20 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT03 SDG#: PCH09-02

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	
07805	**Acenaphthene**	83-32-9	**0.9**		0.1	1
07805	**Acenaphthylene**	208-96-8	**0.7**		0.1	1
07805	**Anthracene**	120-12-7	**0.2**	**J**	0.1	1
07805	**Benzo(a)anthracene**	56-55-3	**0.1**	**J**	0.1	1
07805	**Benzo(a)pyrene**	50-32-8	**0.2**	**J**	0.1	1
07805	**Benzo(b)fluoranthene**	205-99-2	**0.2**	**J**	0.1	1
07805	**Benzo(g,h,i)perylene**	191-24-2	**1**		0.1	1
07805	**Benzo(k)fluoranthene**	207-08-9	**0.1**	**J**	0.1	1
07805	**Chrysene**	218-01-9	**0.2**	**J**	0.1	1
07805	**Dibenz(a,h)anthracene**	53-70-3	**0.2**	**J**	0.1	1
07805	**Fluoranthene**	206-44-0	**3**		0.1	1
07805	Fluorene	86-73-7	N.D.		0.1	1
07805	**Indeno(1,2,3-cd)pyrene**	193-39-5	**0.5**	**J**	0.1	1
07805	Naphthalene	91-20-3	N.D.		0.1	1
07805	Phenanthrene	85-01-8	N.D.		0.1	1
07805	**Pyrene**	129-00-0	**3**		0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/28/2011 23:54	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/28/2011 23:54	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 14:04	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 0013

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

Analysis Report

Lancaster Laboratories

Sample Description: MW-8D Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477565
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/16/2011 14:55 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT8D SDG#: PCH09-03

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	
07805	Acenaphthene	83-32-9	N.D.		0.1	1
07805	Acenaphthylene	208-96-8	N.D.		0.1	1
07805	Anthracene	120-12-7	N.D.		0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.		0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.1	1
07805	**Benzo(g,h,i)perylene**	191-24-2	**0.2**	**J**	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.1	1
07805	Chrysene	218-01-9	N.D.		0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	Fluoranthene	206-44-0	N.D.		0.1	1
07805	Fluorene	86-73-7	N.D.		0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	1
07805	Naphthalene	91-20-3	N.D.		0.1	1
07805	Phenanthrene	85-01-8	N.D.		0.1	1
07805	Pyrene	129-00-0	N.D.		0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 00:15	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 00:15	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 14:28	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 0814

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

Lancaster Laboratories

Sample Description: MW-8S Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477566
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/16/2011 15:05 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT8S SDG#: PCH09-04

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	**Methyl Tertiary Butyl Ether**	1634-04-4	**0.5**	**J**	0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	
07805	**Acenaphthene**	83-32-9	**0.5**	**J**	0.1	1
07805	Acenaphthylene	208-96-8	N.D.		0.1	1
07805	Anthracene	120-12-7	N.D.		0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.		0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.1	1
07805	Chrysene	218-01-9	N.D.		0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	Fluoranthene	206-44-0	N.D.		0.1	1
07805	**Fluorene**	86-73-7	**0.1**	**J**	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	1
07805	**Naphthalene**	91-20-3	**0.2**	**J**	0.1	1
07805	Phenanthrene	85-01-8	N.D.		0.1	1
07805	Pyrene	129-00-0	N.D.		0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 00:36	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 00:36	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 14:52	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 0015

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

Analysis Report

Lancaster Laboratories

Sample Description: DUP-111611 Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477567
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/16/2011 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PATFD SDG#: PCH09-05FD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	
07805	**Acenaphthene**	83-32-9	**1**		0.1	1
07805	**Acenaphthylene**	208-96-8	**0.9**		0.1	1
07805	**Anthracene**	120-12-7	**0.3**	J	0.1	1
07805	**Benzo(a)anthracene**	56-55-3	**0.1**	J	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.1	1
07805	**Chrysene**	218-01-9	**0.1**	J	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	**Fluoranthene**	206-44-0	**3**		0.1	1
07805	**Fluorene**	86-73-7	**0.1**	J	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	1
07805	Naphthalene	91-20-3	N.D.		0.1	1
07805	Phenanthrene	85-01-8	N.D.		0.1	1
07805	**Pyrene**	129-00-0	**3**		0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 00:56	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 00:56	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 15:16	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 0816

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

Analysis Report

Lancaster Laboratories

Sample Description: MW-9S Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477568
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/17/2011 07:50 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT9S SDG#: PCH09-06

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	
07805	**Acenaphthene**	83-32-9	**3**		0.1	1
07805	**Acenaphthylene**	208-96-8	**0.9**		0.1	1
07805	**Anthracene**	120-12-7	**0.1**	**J**	0.1	1
07805	**Benzo(a)anthracene**	56-55-3	**0.3**	**J**	0.1	1
07805	**Benzo(a)pyrene**	50-32-8	**0.2**	**J**	0.1	1
07805	**Benzo(b)fluoranthene**	205-99-2	**0.3**	**J**	0.1	1
07805	**Benzo(g,h,i)perylene**	191-24-2	**0.2**	**J**	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.1	1
07805	**Chrysene**	218-01-9	**0.3**	**J**	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	**Fluoranthene**	206-44-0	**0.7**		0.1	1
07805	**Fluorene**	86-73-7	**0.3**	**J**	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	1
07805	Naphthalene	91-20-3	N.D.		0.1	1
07805	**Phenanthrene**	85-01-8	**0.2**	**J**	0.1	1
07805	**Pyrene**	129-00-0	**1**		0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 01:17	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 01:17	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 15:40	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 6817

Analysis Report

Lancaster Laboratories

Sample Description: MW-9D Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477569
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/17/2011 07:55 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT9D SDG#: PCH09-07

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	
07805	Acenaphthene	83-32-9	N.D.		0.1	1
07805	**Acenaphthylene**	208-96-8	**0.1**	**J**	0.1	1
07805	**Anthracene**	120-12-7	**0.2**	**J**	0.1	1
07805	**Benzo(a)anthracene**	56-55-3	**0.2**	**J**	0.1	1
07805	**Benzo(a)pyrene**	50-32-8	**0.2**	**J**	0.1	1
07805	**Benzo(b)fluoranthene**	205-99-2	**0.3**	**J**	0.1	1
07805	**Benzo(g,h,i)perylene**	191-24-2	**0.2**	**J**	0.1	1
07805	**Benzo(k)fluoranthene**	207-08-9	**0.2**	**J**	0.1	1
07805	**Chrysene**	218-01-9	**0.3**	**J**	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	**Fluoranthene**	206-44-0	**0.4**	**J**	0.1	1
07805	**Fluorene**	86-73-7	**0.2**	**J**	0.1	1
07805	**Indeno(1,2,3-cd)pyrene**	193-39-5	**0.1**	**J**	0.1	1
07805	Naphthalene	91-20-3	N.D.		0.1	1
07805	**Phenanthrene**	85-01-8	**0.4**	**J**	0.1	1
07805	**Pyrene**	129-00-0	**0.6**		0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 01:37	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 01:37	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 16:04	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 2016

Lancaster Laboratories

Sample Description: MW-4S Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477570
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/17/2011 09:20 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT4S SDG#: PCH09-08

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	
07805	Acenaphthene	83-32-9	N.D.		0.1	1
07805	**Acenaphthylene**	208-96-8	**0.2**	**J**	0.1	1
07805	Anthracene	120-12-7	N.D.		0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.		0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.1	1
07805	Chrysene	218-01-9	N.D.		0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	Fluoranthene	206-44-0	N.D.		0.1	1
07805	Fluorene	86-73-7	N.D.		0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	1
07805	**Naphthalene**	91-20-3	**0.1**	**J**	0.1	1
07805	Phenanthrene	85-01-8	N.D.		0.1	1
07805	**Pyrene**	129-00-0	**0.1**	**J**	0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 01:58	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 01:58	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 16:29	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 8015

Lancaster Laboratories

Sample Description: MW-4D Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477571
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/17/2011 09:45 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT4D SDG#: PCH09-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 02:19	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 02:19	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 16:53	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 0028

Lancaster Laboratories

Sample Description: FB-111711 Grab Water
COC: 271730
Patchogue, NY

LLI Sample # WW 6477572
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/17/2011 10:00 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PATFB SDG#: PCH09-10FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 02:39	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 02:39	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 17:16	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 0821

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

Lancaster Laboratories

Sample Description: MW-7S Grab Water
COC: 192824
Patchogue, NY

LLI Sample # WW 6477573
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/17/2011 11:10 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT7S SDG#: PCH09-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 03:00	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 03:00	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 17:41	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 8822

Lancaster Laboratories

Sample Description: MW-7D Grab Water
COC: 192824
Patchogue, NY

LLI Sample # WW 6477574
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/17/2011 11:15 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT7D SDG#: PCH09-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 03:20	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 03:20	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 18:04	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 8823

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

Lancaster Laboratories

Sample Description: MW-2D Grab Water
COC: 192824
Patchogue, NY

LLI Sample # WW 6477575
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/17/2011 12:45 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT2D SDG#: PCH09-13

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	
07805	Acenaphthene	83-32-9	N.D.		0.1	1
07805	Acenaphthylene	208-96-8	N.D.		0.1	1
07805	Anthracene	120-12-7	N.D.		0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.		0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.1	1
07805	**Benzo(b)fluoranthene**	205-99-2	**0.1**	**J**	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.1	1
07805	Chrysene	218-01-9	N.D.		0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	Fluoranthene	206-44-0	N.D.		0.1	1
07805	Fluorene	86-73-7	N.D.		0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	1
07805	**Naphthalene**	91-20-3	**0.1**	**J**	0.1	1
07805	Phenanthrene	85-01-8	N.D.		0.1	1
07805	Pyrene	129-00-0	N.D.		0.1	1

Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 03:41	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 03:41	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 18:28	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 6824

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

Lancaster Laboratories

Sample Description: MW-2S Grab Water
COC: 192824
Patchogue, NY

LLI Sample # WW 6477576
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/17/2011 12:50 by CM

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT2S SDG#: PCH09-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 04:02	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 04:02	Frank A Valla, Jr	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	11325WAK026	12/05/2011 18:52	Matthew S Woods	1
07807	BNA Water Extraction	SW-846 3510C	1	11325WAK026	11/22/2011 09:30	Kerrie A Freeburn	1

PCH09 8825

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

Analysis Report

Lancaster Laboratories

Sample Description: Trip Blank Water
COC: 192824
Patchogue, NY

LLI Sample # WW 6477577
LLI Group # 1277546
Account # 09286

Project Name: Patchogue, NY

Collected: 11/16/2011

Submitted: 11/19/2011 09:50
Reported: 12/08/2011 11:57

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PATTB SDG#: PCH09-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

State of New York Certification No. 10670

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	UST VOCs 8260 (Water)	SW-846 8260B	1	Y113322AA	11/29/2011 04:22	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y113322AA	11/29/2011 04:22	Frank A Valla, Jr	1

PCH09 8826

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

Volatiles by GC/MS Data

Case Narrative
Conformance/Nonconformance
Summary

PCH89 8828

Lancaster Laboratories

CLIENT: Brown & Caldwell
SDG: PCH09

GC/MS Volatiles

Fraction: Volatiles by GC/MS

UST VOCs 8260 (Water)

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
6477561	MW-1	X		1	Unspiked
6477562	MW-1 Matrix Spike	X		1	Matrix Spike
6477563	MW-1 Matrix Spike Dup	X		1	Matrix Spike Duplicate
6477564	MW-3	X		1	
6477565	MW-8D	X		1	
6477566	MW-8S	X		1	
6477567	DUP-111611	X		1	Field Duplicate Sample
6477568	MW-9S	X		1	
6477569	MW-9D	X		1	
6477570	MW-4S	X		1	
6477571	MW-4D	X		1	
6477572	FB-111711	X		1	Field Blank
6477573	MW-7S	X		1	
6477574	MW-7D	X		1	
6477575	MW-2D	X		1	
6477576	MW-2S	X		1	
6477577	Trip Blank	X		1	Trip Blank

See QC Reference List for Associated Batch QC Samples

SAMPLE PREPARATION:

No problems were encountered with the preparation of the samples. .

ANALYSIS:

No problems were encountered with the analysis of the samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

All QC is within specification.

Lancaster Laboratories

CLIENT: Brown & Caldwell
SDG: PCH09

GC/MS Volatiles

Fraction: Volatiles by GC/MS

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

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 12/13/2011 by
(Date)

Judi Brown
Judi Brown
Specialist

Quality Control and Calibration Summary Forms

Lancaster Laboratories

Quality Control Reference List
GC/MS Volatiles

CLIENT: Brown & Caldwell
SDG: PCH09

Fraction: Volatiles by GC/MS

Analysis	Batch Number	Sample Number	Analysis Date
UST VOCs 8260 (Water)	Y113322AA	VBLKY09	11/28/2011 21:17:00
		LCSY09	11/28/2011 21:38:00
		6477561 UNSPK	11/28/2011 22:52:00
		6477562 MS	11/28/2011 23:13:00
		6477563 MSD	11/28/2011 23:33:00
		6477564	11/28/2011 23:54:00
		6477565	11/29/2011 00:15:00
		6477566	11/29/2011 00:36:00
		6477567	11/29/2011 00:56:00
		6477568	11/29/2011 01:17:00
		6477569	11/29/2011 01:37:00
		6477570	11/29/2011 01:58:00
		6477571	11/29/2011 02:19:00
		6477572	11/29/2011 02:39:00
		6477573	11/29/2011 03:00:00
		6477574	11/29/2011 03:20:00
		6477575	11/29/2011 03:41:00
		6477576	11/29/2011 04:02:00
		6477577	11/29/2011 04:22:00

Lancaster Laboratories

Quality Control Summary
Method Blank
GC/MS Volatiles
SDG: PCH09
Matrix: LIQUID

Fraction: Volatiles by GC/MS

Y113322AA / VBLKY09 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Methyl Tertiary Butyl Ether	11/28/11	N.D.	ug/l	0.5	5
Ethylbenzene	11/28/11	N.D.	ug/l	0.8	5
m+p-Xylene	11/28/11	N.D.	ug/l	0.8	5
o-Xylene	11/28/11	N.D.	ug/l	0.8	5
Benzene	11/28/11	N.D.	ug/l	0.5	5
Toluene	11/28/11	N.D.	ug/l	0.7	5
Xylene (Total)	11/28/11	N.D.	ug/l	0.8	5

Lancaster Laboratories

Quality Control Summary
Surrogates
GC/MS Volatiles
SDG: PCH09
Matrix: LIQUID

Fraction: Volatiles by GC/MS

Y113322AA	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
VBLKY09	96	80 - 116	100	77 - 113	98	80 - 113	93	78 - 113
LCSY09	98	80 - 116	104	77 - 113	100	80 - 113	98	78 - 113
6477561	97	80 - 116	102	77 - 113	98	80 - 113	91	78 - 113
6477562 MS	97	80 - 116	103	77 - 113	101	80 - 113	98	78 - 113
6477563 MSD	98	80 - 116	103	77 - 113	101	80 - 113	97	78 - 113
6477564	96	80 - 116	99	77 - 113	98	80 - 113	92	78 - 113
6477565	96	80 - 116	101	77 - 113	98	80 - 113	92	78 - 113
6477566	97	80 - 116	101	77 - 113	96	80 - 113	90	78 - 113
6477567	97	80 - 116	100	77 - 113	98	80 - 113	92	78 - 113
6477568	98	80 - 116	94	77 - 113	95	80 - 113	91	78 - 113
6477569	97	80 - 116	99	77 - 113	97	80 - 113	91	78 - 113
6477570	97	80 - 116	100	77 - 113	98	80 - 113	91	78 - 113
6477571	98	80 - 116	101	77 - 113	98	80 - 113	91	78 - 113
6477572	99	80 - 116	103	77 - 113	99	80 - 113	92	78 - 113
6477573	98	80 - 116	97	77 - 113	96	80 - 113	89	78 - 113
6477574	99	80 - 116	101	77 - 113	98	80 - 113	91	78 - 113
6477575	100	80 - 116	101	77 - 113	98	80 - 113	90	78 - 113
6477576	99	80 - 116	101	77 - 113	99	80 - 113	90	78 - 113
6477577	98	80 - 116	101	77 - 113	98	80 - 113	90	78 - 113

Lancaster Laboratories

Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: PCH09
Matrix: LIQUID

GC/MS Volatiles

Fraction: Volatiles by GC/MS

UNSPK: 6477561 MS: 6477562 MSD: 6477563 **Analyte**	Batch: **Y113322AA** (Sample number(s): 6477561-6477577)								
	Spike Added ug/l	**Unspiked Conc ug/l**	**MS Conc ug/l**	**MSD Conc ug/l**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Methyl Tertiary Butyl Ether	20	N.D.	20.46	20.21	102	101	72-126	1	30
Ethylbenzene	20	N.D.	21.3	20.49	107	102	71-134	4	30
m+p-Xylene	40	N.D.	42.	39.93	105	100	79-125	5	30
o-Xylene	20	N.D.	20.02	19.33	100	97	79-125	4	30
Benzene	20	N.D.	21.98	21.29	110	106	80-126	3	30
Toluene	20	N.D.	21.78	20.97	109	105	80-125	4	30
Xylene (Total)	60	N.D.	62.02	59.26	103	99	79-125	5	30

Results are being reported on an as received basis.

Lancaster Laboratories

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

SDG: PCH09
Matrix: LIQUID

GC/MS Volatiles

Fraction: Volatiles by GC/MS

LCS: LCSY09	Batch: **Y113322AA** (Sample number(s): 6477561-6477577)							
Analyte	Spike Added ug/l	LCS Conc ug/l	LCSD Conc ug/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Methyl Tertiary Butyl Ether	20	20.38		102		76-120		
Ethylbenzene	20	19.78		99		79-120		
m+p-Xylene	40	38.26		96		80-120		
o-Xylene	20	18.96		95		80-120		
Benzene	20	20.58		103		79-120		
Toluene	20	20.15		101		79-120		
Xylene (Total)	60	57.21		95		80-120		

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_PCH09___

Lab File ID: yn14t01.d BFB Injection Date: 11/14/11

Instrument ID: HP09355 BFB Injection Time: 09:24

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	19.09
75	30.0 - 60.0% of mass 95	51.00
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.96
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	86.92
175	5.0 - 9.0% of mass 174	6.18 (7.11)1
176	Greater than 95.0%, but less than 101.0% of mass 174	84.65 (97.38)1
177	5.0 - 9.0% of mass 176	5.64 (6.66)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	yn14i01.d	11/14/11	09:41
02	VSTD100	yn14i02.d	11/14/11	10:02
03	VSTD50	yn14i03.d	11/14/11	10:42
04	VSTD20	yn14i04.d	11/14/11	11:23
05	VSTD10	yn14i05.d	11/14/11	11:44
06	VSTD4	yn14i06.d	11/14/11	12:04
07	MDL001 - MDL001	yn14m01.d	11/14/11	12:25
08	YSMICV	yn14v02.d	11/14/11	14:02
09	VSTD300	yn14i08.d	11/14/11	14:48
10	VSTD100	yn14i09.d	11/14/11	15:08
11	VSTD50	yn14i10.d	11/14/11	15:29
12	VSTD20	yn14i11.d	11/14/11	15:49
13	VSTD10	yn14i12.d	11/14/11	16:10
14	VSTD4	yn14i13.d	11/14/11	16:31
15	MDL001 - MDL001	yn14m02.d	11/14/11	16:52
16	YLGICV	yn14v03.d	11/14/11	17:13

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.: PCH09

Lab File ID: yn28t05.d BFB Injection Date: 11/28/11

Instrument ID: HP09355 BFB Injection Time: 20:41

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	18.95
75	30.0 - 60.0% of mass 95	50.33
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.10
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	89.76
175	5.0 - 9.0% of mass 174	6.54 (7.28)1
176	Greater than 95.0%, but less than 101.0% of mass 174	86.20 (96.03)1
177	5.0 - 9.0% of mass 176	5.84 (6.78)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	yn28c05.d	11/28/11	20:57
02	VBLKY09	yn28b05.d	11/28/11	21:17
03	LCSY09	yn28l05.d	11/28/11	21:38
04	6482077	yn28s50.d	11/28/11	22:10
05	6482078	yn28s51.d	11/28/11	22:31
06	6477561	yn28s52.d	11/28/11	22:52
07	6477562MS	yn28s53.d	11/28/11	23:13
08	6477563MSD	yn28s54.d	11/28/11	23:33
09	6477564	yn28s55.d	11/28/11	23:54
10	6477565	yn28s56.d	11/29/11	00:15
11	6477566	yn28s57.d	11/29/11	00:36
12	6477567	yn28s58.d	11/29/11	00:56
13	6477568	yn28s59.d	11/29/11	01:17
14	6477569	yn28s60.d	11/29/11	01:37
15	6477570	yn28s61.d	11/29/11	01:58
16	6477571	yn28s62.d	11/29/11	02:19
17	6477572	yn28s63.d	11/29/11	02:39
18	6477573	yn28s64.d	11/29/11	03:00
19	6477574	yn28s65.d	11/29/11	03:20
20	6477575	yn28s66.d	11/29/11	03:41
21	6477576	yn28s67.d	11/29/11	04:02
22	6477577	yn28s68.d	11/29/11	04:22

PCH09 5838

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.: PCH09

Lab File ID: yn28t05.d BFB Injection Date: 11/28/11

Instrument ID: HP09355 BFB Injection Time: 20:41

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	18.95
75	30.0 - 60.0% of mass 95	50.33
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.10
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	89.76
175	5.0 - 9.0% of mass 174	6.54 (7.28)1
176	Greater than 95.0%, but less than 101.0% of mass 174	86.20 (96.03)1
177	5.0 - 9.0% of mass 176	5.84 (6.78)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	6477041	yn28s69.d	11/29/11	04:43
24	6477044	yn28s70.d	11/29/11	05:04
25	6477045	yn28s71.d	11/29/11	05:24
26	6477075	yn28s72.d	11/29/11	05:45

PCH09 0039

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09355 Calibration Date(s): 11/14/11 11/14/11

Heated Purge: (Y/N) Y Calibration Times: 14:48 16:31

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

LAB FILE ID: RRF 4 = yn14i13.d RRF 10= yn14i12.d RRF 20= yn14i11.d
RRF 50= yn14i10.d RRF100= yn14i09.d RRF300= yn14i08.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Dichlorodifluoromethane	0.5866	0.5355	0.5299	0.5247	0.5200	0.4477		0.5241	9	AVG	
Chloromethane	#0.5166	0.5260	0.4959	0.4742	0.4541	0.4165		0.4805	9	AVG	#
Vinyl Chloride	*0.5199	0.5224	0.4958	0.4745	0.4738	0.4274		0.4856	7	AVG	*
1,3-Butadiene	0.3111	0.2706	0.2442	0.2276	0.2281			0.2563	14	AVG	
Bromomethane	0.4027	0.4065	0.3854	0.3692	0.3710	0.2760		0.3685	13	AVG	
Chloroethane	0.3122	0.3066	0.2922	0.2786	0.2766	0.2004		0.2777	15	AVG	
Dichlorofluoromethane	0.8056	0.7635	0.7337	0.6958	0.6968	0.5845		0.7133	11	AVG	
Trichlorofluoromethane	0.7610	0.7151	0.6942	0.6802	0.6911	0.5738		0.6859	9	AVG	
n-Pentane	0.5378	0.4541	0.4707	0.4947	0.4862	0.3852		0.4714	11	AVG	
Ethyl Ether	0.3050	0.3052	0.3004	0.2957	0.2978	0.2675		0.2953	5	AVG	
Freon 123a	0.5067	0.4733	0.4299	0.4228	0.4331	0.3780		0.4406	10	AVG	
Acrolein	2.1660	2.1172	1.9751	1.9498	1.9478	1.8620		2.0030	6	AVG	
1,1-Dichloroethene	*0.3408	0.3608	0.3416	0.3397	0.3535	0.3377		0.3457	3	AVG	*
Freon 113	0.3679	0.3587	0.3510	0.3674	0.3787	0.3533		0.3628	3	AVG	
Acetone	0.0851	0.0882	0.0804	0.0729	0.0738	0.0696		0.0783	9	AVG	
Methyl Iodide	0.6917	0.7335	0.7034	0.6876	0.7001	0.7074		0.7039	2	AVG	
2-Propanol	0.8699	0.9158	0.8264	0.7744	0.6662	0.6193		0.7787	15	AVG	
Carbon Disulfide	0.9206	0.9822	0.9718	0.9906	1.0224	0.9948		0.9804	3	AVG	
Allyl Chloride	0.4983	0.5371	0.4925	0.4737	0.4779	0.4452		0.4875	6	AVG	
Methyl Acetate	0.5050	0.5105	0.4752	0.4331	0.4550	0.4378		0.4694	7	AVG	
Methylene Chloride	0.2868	0.3061	0.2893	0.2861	0.2948	0.3089		0.2953	3	AVG	
t-Butyl Alcohol	1.3285	1.1973	1.1256	1.0715	0.9791	0.9478		1.1083	13	AVG	
Acrylonitrile	0.2262	0.2297	0.2176	0.1994	0.1971	0.1995		0.2116	7	AVG	
trans-1,2-Dichloroethene	0.2770	0.2904	0.2826	0.2769	0.2862	0.2887		0.2836	2	AVG	
Methyl Tertiary Butyl Ether	0.9052	0.9518	0.9375	0.8964	0.9267	0.9062		0.9206	2	AVG	
n-Hexane	0.4001	0.3922	0.3945	0.3884	0.4020	0.3704		0.3913	3	AVG	
1,2-Dichloroethene (total)	0.2880	0.3034	0.2943	0.2892	0.2989	0.3049		0.2965	2	AVG	
1,1-Dichloroethane	#0.4871	0.5134	0.5021	0.4942	0.5055	0.4800		0.4970	2	AVG	#
di-Isopropyl Ether	0.8804	0.9300	0.9052	0.8753	0.9015	0.8750		0.8946	2	AVG	
2-Chloro-1,3-Butadiene	0.4261	0.4518	0.4384	0.4395	0.4561	0.4508		0.4438	3	AVG	
Ethyl t-Butyl Ether	0.8679	0.9175	0.8951	0.8688	0.8958	0.8550		0.8833	3	AVG	
cis-1,2-Dichloroethene	0.2990	0.3164	0.3061	0.3015	0.3117	0.3210		0.3093	3	AVG	
2-Butanone	0.2943	0.3141	0.2923	0.2772	0.2856	0.2916		0.2925	4	AVG	
2,2-Dichloropropane	0.3800	0.4161	0.4085	0.4160	0.4341	0.4366		0.4152	5	AVG	
Propionitrile	1.2397	1.2318	1.1898	1.1586	1.1903	1.2327		1.2071	3	AVG	
Methacrylonitrile	0.1915	0.2015	0.1984	0.1891	0.2006	0.2071		0.1980	3	AVG	
Bromochloromethane	0.1576	0.1684	0.1645	0.1621	0.1695	0.1763		0.1664	4	AVG	
Tetrahydrofuran	1.0994	1.1527	1.1301	1.1014	1.1238	1.2302		1.1396	4	AVG	
Chloroform	*0.4872	0.5070	0.4958	0.4887	0.5029	0.5014		0.4972	2	AVG	*
1,1,1-Trichloroethane	0.5399	0.5619	0.4967	0.4718	0.4821	0.4730		0.5042	8	AVG	
Cyclohexane	0.4834	0.4778	0.4650	0.4724	0.4845	0.4556		0.4731	2	AVG	
Cyclohexane(mz 84)	0.4243	0.4121	0.4037	0.4095	0.4234	0.3992		0.4120	2	AVG	
Cyclohexane(mz 69)	0.1484	0.1460	0.1447	0.1470	0.1504	0.1435		0.1466	2	AVG	
1,1-Dichloropropene	0.3857	0.3993	0.3827	0.3817	0.3967	0.3967		0.3905	2	AVG	
Carbon Tetrachloride	0.3624	0.3897	0.3828	0.3926	0.4172	0.4243		0.3948	6	AVG	
Isobutyl Alcohol	0.3741	0.3745	0.3577	0.3505	0.3415	0.3723		0.3618	4	AVG	
Benzene	1.0983	1.1621	1.1183	1.1025	1.1434	1.1817		1.1344	3	AVG	
1,2-Dichloroethane	0.4365	0.4571	0.4493	0.4366	0.4526	0.4613		0.4489	2	AVG	
1,2-Dichloroethane(mz 98)	0.0325	0.0377	0.0363	0.0358	0.0370	0.0399		0.0365	7	AVG	
t-Amyl Methyl Ether	0.8156	0.8531	0.8360	0.8120	0.8606	0.8490		0.8377	2	AVG	
n-Heptane	0.5151	0.4259	0.4554	0.4158	0.4325	0.4202		0.4441	8	AVG	
n-Butanol	0.2978	0.3031	0.2989	0.2913	0.2981	0.3225		0.3020	4	AVG	

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

PCH89 8848

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09355 Calibration Date(s): 11/14/11 11/14/11

Heated Purge: (Y/N) Y Calibration Times: 14:48 16:31

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

LAB FILE ID: RRF 4 = yn14i13.d RRF 10= yn14i12.d RRF 20= yn14i11.d
RRF 50= yn14i10.d RRF100= yn14i09.d RRF300= yn14i08.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Trichloroethene	0.2899	0.3110	0.3005	0.3000	0.3102	0.3250		0.3061	4	AVG	
1,2-Dichloropropane	*0.2779	0.3011	0.2925	0.2898	0.3024	0.3123		0.2960	4	AVG	*
Methylcyclohexane(mz98)	0.2481	0.2294	0.2241	0.2313	0.2393	0.2398		0.2353	4	AVG	
Methylcyclohexane	0.5246	0.4920	0.4855	0.4984	0.5224	0.5152		0.5063	3	AVG	
Methyl Methacrylate	0.2882	0.3044	0.3004	0.2944	0.3105	0.3198		0.3029	4	AVG	
Dibromomethane	0.1973	0.2083	0.2081	0.2016	0.2102	0.2153		0.2068	3	AVG	
1,4-Dioxane	0.0981	0.1062	0.0980	0.0944	0.0916	0.1017		0.0983	5	AVG	
Bromodichloromethane	0.3101	0.3470	0.3504	0.3601	0.3819	0.3948		0.3573	8	AVG	
2-Nitropropane	0.1185	0.1321	0.1365	0.1447	0.1555	0.1636		0.1418	12	AVG	
2-Chloroethyl Vinyl Ether	0.2092	0.2280	0.2302	0.2375	0.2379	0.2384		0.2302	5	AVG	
cis-1,3-Dichloropropene	0.3746	0.4221	0.4299	0.4434	0.4674	0.4796		0.4362	9	AVG	
4-Methyl-2-Pentanone	0.5196	0.5763	0.5743	0.5378	0.5628	0.5620		0.5555	4	AVG	
Toluene	*0.9435	0.9939	0.9644	0.9524	0.9994	1.0564		0.9850	4	AVG	*
trans-1,3-Dichloropropene	0.4394	0.5187	0.5379	0.5614	0.6051	0.6390		0.5502	13	AVG	
Ethyl Methacrylate	0.5405	0.6044	0.6141	0.6079	0.6446	0.6754		0.6145	7	AVG	
1,1,2-Trichloroethane	0.3634	0.3802	0.3781	0.3649	0.3819	0.4004		0.3781	4	AVG	
Tetrachloroethene	0.4632	0.4818	0.4759	0.4672	0.4925	0.5399		0.4867	6	AVG	
1,3-Dichloropropane	0.6073	0.6412	0.6335	0.6132	0.6401	0.6775		0.6354	4	AVG	
2-Hexanone	0.5585	0.6045	0.5823	0.5522	0.5730	0.5953		0.5777	4	AVG	
Dibromochloromethane	0.3089	0.3500	0.3737	0.3985	0.4342			0.3731	13	AVG	
1,2-Dibromoethane	0.3764	0.4132	0.4142	0.4070	0.4277	0.4471		0.4143	6	AVG	
Chlorobenzene	#1.0909	1.1710	1.1249	1.1182	1.1674	1.2381		1.1517	5	AVG	#
1,1,1,2-Tetrachloroethane	0.3247	0.3703	0.3769	0.3892	0.4184	0.4571		0.3894	12	AVG	
Ethylbenzene	*1.8373	1.9536	1.9157	1.8913	1.9805	2.0196		1.9330	3	AVG	*
m+p-Xylene	0.7357	0.7840	0.7824	0.7840	0.8616	0.9400		0.8146	9	AVG	
Xylene (Total)	0.7271	0.7830	0.7789	0.7835	0.8585	0.9541		0.8142	10	AVG	
o-Xylene	0.7099	0.7808	0.7717	0.7826	0.8522	0.9822		0.8133	12	AVG	
Styrene	1.1222	1.2507	1.2611	1.2903	1.4248	1.6085		1.3263	13	AVG	
Bromoform	#0.2095	0.2527	0.2788	0.3109	0.3572			0.2818	20	1STDEG	#
Isopropylbenzene	1.8872	2.0725	2.0413	2.0087	2.1551	2.0422		2.0345	4	AVG	
Cyclohexanone	0.3351		0.3398	0.3446	0.3406	0.3774		0.3475	5	AVG	
1,1,2,2-Tetrachloroethane	#0.9671	0.9911	0.9800	0.9271	0.9094	0.8576		0.9354	6	AVG	#
trans-1,4-Dichloro-2-Butene	0.3325	0.3562	0.3577	0.3396	0.3430	0.3068		0.3393	6	AVG	
Bromobenzene	0.8108	0.8442	0.8089	0.7826	0.7664	0.7346		0.7912	5	AVG	
1,2,3-Trichloropropane	0.3325	0.3375	0.3332	0.3122	0.3054	0.2869		0.3179	6	AVG	
n-Propylbenzene	3.5544	3.6967	3.6209	3.3876	3.3032	2.3575		3.3200	15	AVG	
2-Chlorotoluene	0.7523	0.7808	0.7576	0.7229	0.7101	0.6816		0.7342	5	AVG	
1,3,5-Trimethylbenzene	2.5631	2.7326	2.7312	2.6670	2.7374	2.1887		2.6033	8	AVG	
4-Chlorotoluene	0.7775	0.8215	0.8074	0.7890	0.8065	0.7993		0.8002	2	AVG	
tert-Butylbenzene	0.6119	0.6395	0.6328	0.6186	0.6527	0.6333		0.6314	2	AVG	
Pentachloroethane	0.3992	0.4315	0.4600	0.4866	0.5325	0.5488		0.4764	12	AVG	
1,2,4-Trimethylbenzene	2.6404	2.7906	2.7785	2.6594	2.6396	2.0955		2.6007	10	AVG	
sec-Butylbenzene	3.2811	3.4033	3.4139	3.2287	3.2073	2.2601		3.1324	14	AVG	
p-Isopropyltoluene	3.0733	3.2324	3.2218	3.1126	3.1167	2.2857		3.0071	12	AVG	
1,3-Dichlorobenzene	1.6033	1.6504	1.6121	1.5215	1.5199	1.4074		1.5524	6	AVG	
1,4-Dichlorobenzene	1.7009	1.7572	1.7032	1.6287	1.6390	1.5643		1.6656	4	AVG	
1,2,3-Trimethylbenzene	2.8151	2.8606	2.8077	2.7348	2.6853	2.0634		2.6611	11	AVG	
Benzyl Chloride	1.4161	1.6518	1.8014	1.8785	1.9639	1.7382		1.7417	11	AVG	
1,3-Diethylbenzene	1.7480	1.7859	1.7702	1.7131	1.7266	1.5135		1.7096	6	AVG	
1,4-Diethylbenzene	1.8345	1.9287	1.9111	1.9220	2.0280	1.6781		1.8837	6	AVG	
n-Butylbenzene	1.4436	1.5074	1.5177	1.4737	1.5348	1.3397		1.4695	5	AVG	
1,2-Dichlorobenzene	1.5822	1.6694	1.6637	1.6549	1.7751	1.5514		1.6494	5	AVG	

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

PCH89 88411

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09355 Calibration Date(s): 11/14/11 11/14/11

Heated Purge: (Y/N) Y Calibration Times: 14:48 16:31

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

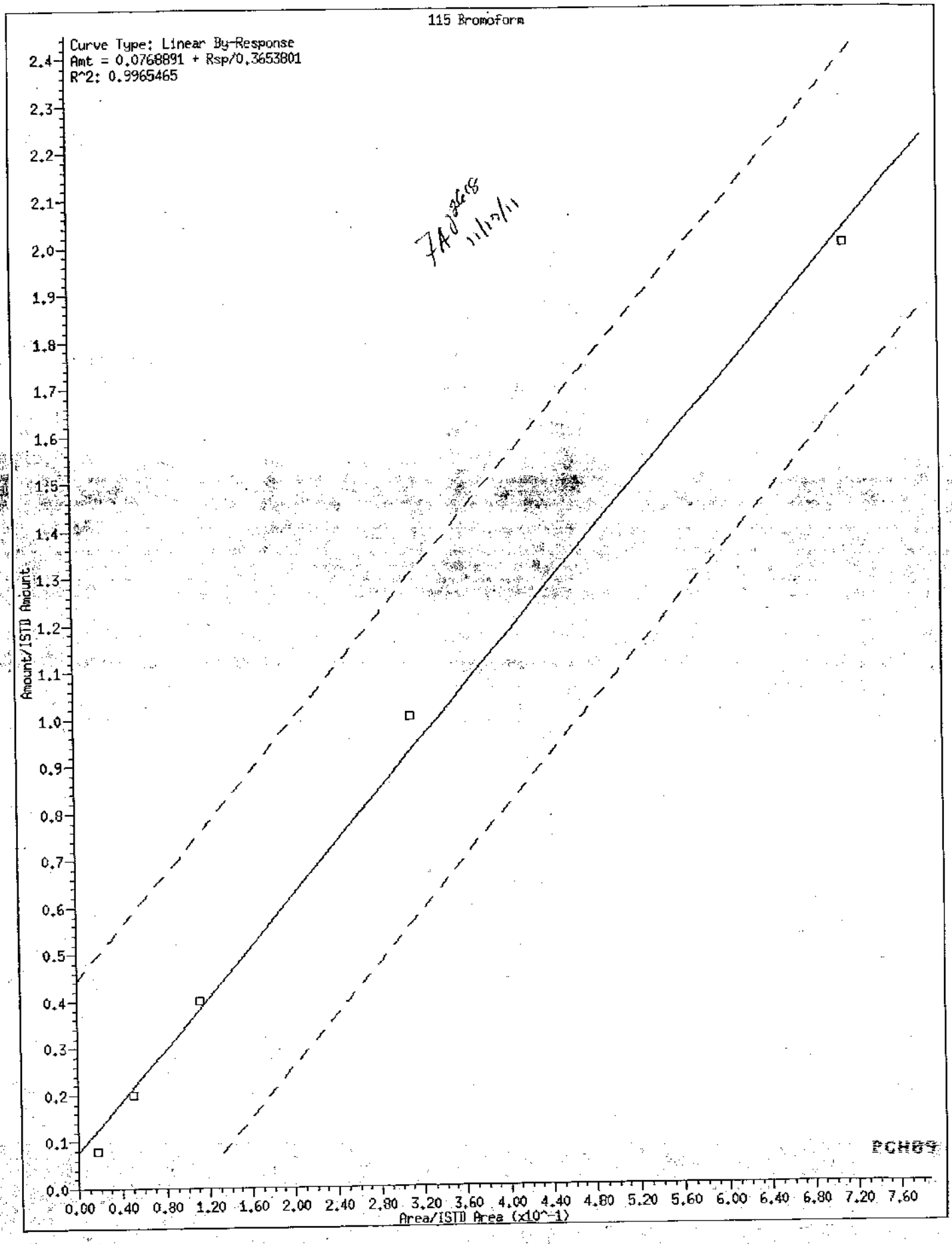
LAB FILE ID: RRF 4 = yn14i13.d RRF 10= yn14i12.d RRF 20= yn14i11.d
RRF 50= yn14i10.d RRF100= yn14i09.d RRF300= yn14i08.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
1,2-Diethylbenzene	1.5021	1.5506	1.5050	1.4867	1.4902	1.3539		1.4814	4	AVG
1,2-Dibromo-3-Chloropropane	0.2287	0.2469	0.2607	0.2570	0.2603	0.2393		0.2488	5	AVG
1,3,5-Trichlorobenzene	1.2877	1.3193	1.2998	1.2377	1.2530	1.1780		1.2626	4	AVG
1,2,4-Trichlorobenzene	1.1895	1.2234	1.2047	1.1508	1.1677	1.0790		1.1692	4	AVG
Hexachlorobutadiene	0.5779	0.5775	0.5901	0.5547	0.5540	0.5134		0.5613	5	AVG
Naphthalene	3.9845	4.1141	4.1000	3.8464	3.8301			3.9750	3	AVG
1,2,3-Trichlorobenzene	1.2095	1.1933	1.2012	1.1335	1.1446	1.0415		1.1539	5	AVG
2-Methylnaphthalene	2.3098	2.4381	2.4822	2.4198	2.4479	1.7425		2.3067	12	AVG
Dibromofluoromethane	0.2483	0.2494	0.2484	0.2496	0.2462	0.2434		0.2475	1	AVG
Dibromofluoromethane(mz111)	0.2520	0.2533	0.2534	0.2546	0.2532	0.2464		0.2521	1	AVG
1,2-Dichloroethane-d4	0.0600	0.0613	0.0619	0.0611	0.0614	0.0586		0.0607	2	AVG
1,2-Dichloroethane-d4(mz104)	0.0385	0.0385	0.0383	0.0392	0.0387	0.0375		0.0384	1	AVG
1,2-Dichloroethane-d4(mz65)	0.3216	0.3231	0.3311	0.3291	0.3268	0.3123		0.3240	2	AVG
Toluene-d8(mz100)	0.8469	0.8491	0.8528	0.8532	0.8580	0.8898		0.8583	2	AVG
4-Bromofluorobenzene(mz174)	0.4608	0.4623	0.4633	0.4639	0.4611	0.4601		0.4619	0	AVG
Toluene-d8	1.3213	1.3300	1.3235	1.3249	1.3151	1.2990		1.3189	1	AVG
4-Bromofluorobenzene	0.4990	0.4985	0.4990	0.4984	0.4993	0.4956		0.4983	0	AVG

Average %RSD 6

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

PCH89 8842


115 Bromoform
Curve Type: Linear By-Response
Amt = 0.0768891 + Rsp/0.3653801
R^2: 0.9965465
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20 7.60
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem2/HP09355.i/11nov14a.b/yn14i08.d VSTD300
/chem2/HP09355.i/11nov14a.b/yn14i09.d VSTD100
/chem2/HP09355.i/11nov14a.b/yn14i10.d VSTD050
/chem2/HP09355.i/11nov14a.b/yn14i11.d VSTD020
/chem2/HP09355.i/11nov14a.b/yn14i12.d VSTD010
/chem2/HP09355.i/11nov14a.b/yn14i13.d VSTD004

Area Summary

File ID:

Internal Standard Name	yn14i08.d	yn14i09.d	yn14i10.d	yn14i11.d	yn14i12.d	yn14i13.d	Avg. Area	%RSD	In Spec
t-Butyl Alcohol-d10	410737	407293	392612	390402	378275	358748	389678	5	Yes
Fluorobenzene	1223039	1146789	1132019	1093023	1061169	1045376	1116902	6	Yes
Chlorobenzene-d5	914394	863583	857062	824509	801924	788816	841715	5	Yes
1,4-Dichlorobenzene-d4	806414	639848	584819	544097	521101	503915	600032	19	Yes

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

RT Summary

File ID:

Internal Standard Name	yn14i08.d	yn14i09.d	yn14i10.d	yn14i11.d	yn14i12.d	yn14i13.d	Avg. RT
t-Butyl Alcohol-d10	2.133	2.133	2.145	2.139	2.145	2.145	2.140
Fluorobenzene	4.262	4.269	4.269	4.268	4.268	4.268	4.267
Chlorobenzene-d5	7.444	7.444	7.444	7.444	7.444	7.444	7.444
1,4-Dichlorobenzene-d4	9.439	9.440	9.440	9.439	9.439	9.439	9.440

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

Report generated on 11/14/2011 at 17:49.

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09355 ICV Date: 11/14/11 Time: 17:13

Lab File ID: yn14v03.d Init. Calib. Date(s): 11/14/11 11/14/11

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

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.5241	0.4713	17.98	20	-10	
#	Chloromethane	0.4805	0.4806	20.00	20	0	#
*	Vinyl Chloride	0.4856	0.4939	20.34	20	2	*
	1,3-Butadiene	0.2563	0.2142	16.72	20	-16	
	Bromomethane	0.3685	0.3582	19.44	20	-3	
	Chloroethane	0.2777	0.2617	18.84	20	-6	
	Dichlorofluoromethane	0.7133	0.6676	18.72	20	-6	
	Trichlorofluoromethane	0.6859	0.7257	21.16	20	6	
	n-Pentane	0.4714	0.4304	18.26	20	-9	
	Ethyl Ether	0.2953	0.3592	24.33	20	22	
	Freon 123a	0.4406	0.4618	20.96	20	5	
	Acrolein	2.0030	1.8038	135.08	150	-10	
*	1,1-Dichloroethene	0.3457	0.4004	23.17	20	16	*
	Freon 113	0.3628	0.3964	21.85	20	9	
	Acetone	0.0783	0.0721	138.15	150	-8	
	Methyl Iodide	0.7039	0.8007	22.75	20	14	
	2-Propanol	0.7787	0.8745	168.47	150	12	
	Carbon Disulfide	0.9804	1.0580	21.58	20	8	
	Allyl Chloride	0.4875	0.5424	22.26	20	11	
	Methyl Acetate	0.4694	0.5625	23.97	20	20	
	Methylene Chloride	0.2953	0.3274	22.17	20	11	
	t-Butyl Alcohol	1.1083	1.1045	199.31	200	0	
	Acrylonitrile	0.2116	0.1858	87.83	100	-12	
	trans-1,2-Dichloroethene	0.2836	0.3086	21.76	20	9	
	Methyl Tertiary Butyl Ether	0.9206	0.9514	20.67	20	3	
	n-Hexane	0.3913	0.3963	20.26	20	1	
#	1,1-Dichloroethane	0.4970	0.5358	21.56	20	8	#
	di-Isopropyl Ether	0.8946	0.9214	20.60	20	3	
	2-Chloro-1,3-Butadiene	0.4438	0.4795	21.61	20	8	
	Ethyl t-Butyl Ether	0.8833	0.9133	20.68	20	3	
	cis-1,2-Dichloroethene	0.3093	0.3300	21.34	20	7	
	2-Butanone	0.2925	0.2723	139.61	150	-7	
	2,2-Dichloropropane	0.4152	0.4324	20.83	20	4	
	Propionitrile	1.2071	1.2369	153.69	150	2	
	Methacrylonitrile	0.1980	0.2010	152.26	150	2	
	Bromochloromethane	0.1664	0.1772	21.30	20	6	

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

PCH09 0045

FORM VII VOA

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09355 ICV Date: 11/14/11 Time: 17:13

Lab File ID: yn14v03.d Init. Calib. Date(s): 11/14/11 11/14/11

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

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Tetrahydrofuran	1.1396	1.0984	96.38	100	-4	
*	Chloroform	0.4972	0.5286	21.26	20	6	*
	1,1,1-Trichloroethane	0.5042	0.5383	21.35	20	7	
	Cyclohexane	0.4731	0.4866	20.57	20	3	
	1,1-Dichloropropene	0.3905	0.4148	21.25	20	6	
	Carbon Tetrachloride	0.3948	0.4032	20.43	20	2	
	Isobutyl Alcohol	0.3618	0.3705	512.05	500	2	
	Benzene	1.1344	1.2163	21.45	20	7	
	1,2-Dichloroethane	0.4489	0.4700	20.94	20	5	
	t-Amyl Methyl Ether	0.8377	0.8439	20.15	20	1	
	n-Heptane	0.4441	0.3999	18.01	20	-10	
	n-Butanol	0.3020	0.3037	1005.92	1000	1	
	Trichloroethene	0.3061	0.3235	21.14	20	6	
*	1,2-Dichloropropane	0.2960	0.3071	20.75	20	4	*
	Methylcyclohexane	0.5063	0.5225	20.64	20	3	
	Methyl Methacrylate	0.3029	0.3037	20.05	20	0	
	Dibromomethane	0.2068	0.2174	21.02	20	5	
	1,4-Dioxane	0.0983	0.0909	462.15	500	-8	
	Bromodichloromethane	0.3573	0.3610	20.20	20	1	
	2-Nitropropane	0.1418	0.1115	15.72	20	-21	
	2-Chloroethyl Vinyl Ether	0.2302	0.2388	20.75	20	4	
	cis-1,3-Dichloropropene	0.4362	0.4446	20.39	20	2	
	4-Methyl-2-Pentanone	0.5555	0.5343	96.18	100	-4	
*	Toluene	0.9850	1.0311	20.94	20	5	*
	trans-1,3-Dichloropropene	0.5502	0.5456	19.83	20	-1	
	Ethyl Methacrylate	0.6145	0.6214	20.23	20	1	
	1,1,2-Trichloroethane	0.3781	0.3909	20.67	20	3	
	Tetrachloroethene	0.4867	0.5042	20.72	20	4	
	1,3-Dichloropropane	0.6354	0.6556	20.63	20	3	
	2-Hexanone	0.5777	0.5486	94.98	100	-5	
	Dibromochloromethane	0.3731	0.3775	20.24	20	1	
	1,2-Dibromoethane	0.4143	0.4283	20.68	20	3	
#	Chlorobenzene	1.1517	1.1943	20.74	20	4	#
	1,1,1,2-Tetrachloroethane	0.3894	0.3911	20.08	20	0	
*	Ethylbenzene	1.9330	2.0051	20.75	20	4	*
	m+p-Xylene	0.8146	0.8193	40.23	40	1	

PCN89 8846

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: HP09355 ICV Date: 11/14/11 Time: 17:13

Lab File ID: yn14v03.d Init. Calib. Date(s): 11/14/11 11/14/11

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

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	o-Xylene	0.8133	0.8135	20.01	20	0	
	Styrene	1.3263	1.3182	19.88	20	-1	
#	Bromoform	0.2818	0.2761	18.96	20	-5	#
	Isopropylbenzene	2.0345	2.1234	20.87	20	4	
	Cyclohexanone	0.3475	0.3121	449.02	500	-10	
#	1,1,2,2-Tetrachloroethane	0.9354	0.9790	20.93	20	5	#
	trans-1,4-Dichloro-2-Butene	0.3393	0.3558	104.87	100	5	
	Bromobenzene	0.7912	0.8477	21.43	20	7	
	1,2,3-Trichloropropane	0.3179	0.3300	20.76	20	4	
	n-Propylbenzene	3.3200	3.6657	22.08	20	10	
	2-Chlorotoluene	0.7342	0.7863	21.42	20	7	
	1,3,5-Trimethylbenzene	2.6033	2.7949	21.47	20	7	
	4-Chlorotoluene	0.8002	0.8372	20.93	20	5	
	tert-Butylbenzene	0.6314	0.6495	20.57	20	3	
	Pentachloroethane	0.4764	0.4687	19.67	20	-2	
	1,2,4-Trimethylbenzene	2.6007	2.8228	21.71	20	9	
	sec-Butylbenzene	3.1324	3.4526	22.04	20	10	
	p-Isopropyltoluene	3.0071	3.2407	21.55	20	8	
	1,3-Dichlorobenzene	1.5524	1.6687	21.50	20	7	
	1,4-Dichlorobenzene	1.6656	1.7541	21.06	20	5	
	1,2,3-Trimethylbenzene	2.6611	2.9340	22.05	20	10	
	Benzyl Chloride	1.7417	1.7174	19.72	20	-1	
	1,3-Diethylbenzene	1.7096	1.8433	21.56	20	8	
	1,4-Diethylbenzene	1.8837	1.9440	20.64	20	3	
	n-Butylbenzene	1.4695	1.5076	20.52	20	3	
	1,2-Dichlorobenzene	1.6494	1.7011	20.63	20	3	
	1,2-Diethylbenzene	1.4814	1.5515	20.95	20	5	
	1,2-Dibromo-3-Chloropropane	0.2488	0.2475	19.90	20	-1	
	1,3,5-Trichlorobenzene	1.2626	1.3002	20.60	20	3	
	1,2,4-Trichlorobenzene	1.1692	1.1908	20.37	20	2	
	Hexachlorobutadiene	0.5613	0.5426	19.34	20	-3	
	Naphthalene	3.9750	3.9887	20.07	20	0	
	1,2,3-Trichlorobenzene	1.1539	1.1642	20.18	20	1	
	2-Methylnaphthalene	2.3067	2.2471	19.48	20	-3	

Average %Drift 6

FCH09 0047

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: HP09355 Calibration Date: 11/28/11 Time: 20:57

Lab File ID: yn28c05.d Init. Calib. Date(s): 11/14/11 11/14/11

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

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.5241	0.5485	52.33	50	5	
#	Chloromethane	0.4805	0.5176	53.86	50	8	#
*	Vinyl Chloride	0.4856	0.5043	51.92	50	4	*
	Bromomethane	0.3685	0.4029	54.67	50	9	
	Chloroethane	0.2777	0.2981	53.67	50	7	
	Trichlorofluoromethane	0.6859	0.6754	49.23	50	-2	
	Ethyl Ether	0.2953	0.2208	37.39	50	-25	
	Acrolein	2.0030	2.0766	518.36	500	4	
*	1,1-Dichloroethene	0.3457	0.3757	54.34	50	9	*
	Freon 113	0.3628	0.4145	57.11	50	14	
	Acetone	0.0783	0.0981	125.22	100	25	
	Methyl Iodide	0.7039	0.7082	50.30	50	1	
	2-Propanol	0.7787	0.9712	311.81	250	25	
	Carbon Disulfide	0.9804	1.1529	58.80	50	18	
	Allyl Chloride	0.4875	0.5083	52.14	50	4	
	Methyl Acetate	0.4694	0.5681	60.50	50	21	
	Methylene Chloride	0.2953	0.3112	52.69	50	5	
	t-Butyl Alcohol	1.1083	1.2712	286.75	250	15	
	Acrylonitrile	0.2116	0.2269	53.62	50	7	
	trans-1,2-Dichloroethene	0.2836	0.2955	52.09	50	4	
	Methyl Tertiary Butyl Ether	0.9206	0.9363	50.85	50	2	
	n-Hexane	0.3913	0.4235	54.12	50	8	
	1,2-Dichloroethene (total)	0.2965	0.3088	104.15	100	4	
#	1,1-Dichloroethane	0.4970	0.5101	51.31	50	3	#
	di-Isopropyl Ether	0.8946	0.9183	51.32	50	3	
	2-Chloro-1,3-Butadiene	0.4438	0.4422	49.82	50	0	
	Ethyl t-Butyl Ether	0.8833	0.8854	50.12	50	0	
	cis-1,2-Dichloroethene	0.3093	0.3220	52.06	50	4	
	2-Butanone	0.2925	0.3146	107.53	100	8	
	2,2-Dichloropropane	0.4152	0.3966	47.76	50	-4	
	Propionitrile	1.2071	1.2384	256.47	250	3	
	Methacrylonitrile	0.1980	0.2074	130.94	125	5	
	Bromochloromethane	0.1664	0.1673	50.28	50	1	
	Tetrahydrofuran	1.1396	1.1532	101.19	100	1	
*	Chloroform	0.4972	0.5152	51.82	50	4	*
	1,1,1-Trichloroethane	0.5042	0.4751	47.11	50	-6	

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

PCN89 8848

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09355 Calibration Date: 11/28/11 Time: 20:57

Lab File ID: yn28c05.d Init. Calib. Date(s): 11/14/11 11/14/11

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

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Cyclohexane	0.4731	0.5000	52.84	50	6	
	Cyclohexane(mz 84)	0.4120	0.4392	53.29	50	7	
	Cyclohexane(mz 69)	0.1466	0.1525	51.99	50	4	
	1,1-Dichloropropene	0.3905	0.3971	50.85	50	2	
	Carbon Tetrachloride	0.3948	0.3994	50.58	50	1	
	Isobutyl Alcohol	0.3618	0.3671	634.14	625	1	
	Benzene	1.1344	1.1869	52.31	50	5	
	1,2-Dichloroethane	0.4489	0.4363	48.60	50	-3	
	1,2-Dichloroethane(mz 98)	0.0365	0.0377	51.61	50	3	
	t-Amyl Methyl Ether	0.8377	0.8325	49.69	50	-1	
	n-Heptane	0.4441	0.4316	48.59	50	-3	
	n-Butanol	0.3020	0.2992	1238.78	1250	-1	
	Trichloroethene	0.3061	0.3127	51.08	50	2	
*	1,2-Dichloropropane	0.2960	0.3029	51.17	50	2	*
	Methylcyclohexane(mz98)	0.2353	0.2348	49.89	50	0	
	Methylcyclohexane	0.5063	0.5094	50.30	50	1	
	Methyl Methacrylate	0.3029	0.3123	51.54	50	3	
	Dibromomethane	0.2068	0.2103	50.85	50	2	
	1,4-Dioxane	0.0983	0.0899	571.72	625	-9	
	Bromodichloromethane	0.3573	0.3723	52.09	50	4	
	2-Nitropropane	0.1418	0.1570	110.73	100	11	
	2-Chloroethyl Vinyl Ether	0.2302	0.2319	50.36	50	1	
	cis-1,3-Dichloropropene	0.4362	0.4490	51.47	50	3	
	4-Methyl-2-Pentanone	0.5555	0.5933	106.81	100	7	
*	Toluene	0.9850	1.0203	51.79	50	4	*
	trans-1,3-Dichloropropene	0.5502	0.5691	51.71	50	3	
	Ethyl Methacrylate	0.6145	0.6105	49.67	50	-1	
	1,1,2-Trichloroethane	0.3781	0.3921	51.85	50	4	
	Tetrachloroethene	0.4867	0.4897	50.31	50	1	
	1,3-Dichloropropane	0.6354	0.6495	51.11	50	2	
	2-Hexanone	0.5777	0.6150	106.47	100	6	
	Dibromochloromethane	0.3731	0.4181	56.04	50	12	
	1,2-Dibromoethane	0.4143	0.4335	52.32	50	5	
#	Chlorobenzene	1.1517	1.1880	51.58	50	3	#
	1,1,1,2-Tetrachloroethane	0.3894	0.4077	52.34	50	5	
*	Ethylbenzene	1.9330	2.0236	52.34	50	5	*

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

PCH89 8849

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09355 Calibration Date: 11/28/11 Time: 20:57

Lab File ID: yn28c05.d Init. Calib. Date(s): 11/14/11 11/14/11

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

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	m+p-Xylene	0.8146	0.8458	103.82	100	4	
	Xylene (Total)	0.8142	0.8425	155.23	150	3	
	o-Xylene	0.8133	0.8361	51.40	50	3	
	Styrene	1.3263	1.3724	51.74	50	3	
#	Bromoform	0.2818	0.3258	48.42	50	-3	#
	Isopropylbenzene	2.0345	2.1660	53.23	50	6	
	Cyclohexanone	0.3475	0.3263	586.96	625	-6	
#	1,1,2,2-Tetrachloroethane	0.9354	0.9999	53.45	50	7	#
	trans-1,4-Dichloro-2-Butene	0.3393	0.3141	115.72	125	-7	
	Bromobenzene	0.7912	0.8139	51.43	50	3	
	1,2,3-Trichloropropane	0.3179	0.3287	51.70	50	3	
	n-Propylbenzene	3.3200	3.5957	54.15	50	8	
	2-Chlorotoluene	0.7342	0.7561	51.49	50	3	
	1,3,5-Trimethylbenzene	2.6033	2.8061	53.90	50	8	
	4-Chlorotoluene	0.8002	0.8216	51.34	50	3	
	tert-Butylbenzene	0.6314	0.6544	51.81	50	4	
	Pentachloroethane	0.4764	0.5133	53.87	50	8	
	1,2,4-Trimethylbenzene	2.6007	2.7638	53.14	50	6	
	sec-Butylbenzene	3.1324	3.4338	54.81	50	10	
	p-Isopropyltoluene	3.0071	3.3080	55.00	50	10	
	1,3-Dichlorobenzene	1.5524	1.6125	51.93	50	4	
	1,4-Dichlorobenzene	1.6656	1.7243	51.76	50	4	
	1,2,3-Trimethylbenzene	2.6611	2.8223	53.03	50	6	
	Benzyl Chloride	1.7417	1.8889	54.23	50	8	
	1,3-Diethylbenzene	1.7096	1.7943	52.48	50	5	
	1,4-Diethylbenzene	1.8837	2.0328	53.96	50	8	
	n-Butylbenzene	1.4695	1.6015	54.49	50	9	
	1,2-Dichlorobenzene	1.6494	1.7894	54.24	50	8	
	1,2-Diethylbenzene	1.4814	1.5541	52.45	50	5	
	1,2-Dibromo-3-Chloropropane	0.2488	0.2595	52.16	50	4	
	1,3,5-Trichlorobenzene	1.2626	1.3039	51.64	50	3	
	1,2,4-Trichlorobenzene	1.1692	1.1566	49.46	50	-1	
	Hexachlorobutadiene	0.5613	0.5233	46.62	50	-7	
	Naphthalene	3.9750	3.9028	49.09	50	-2	
	1,2,3-Trichlorobenzene	1.1539	1.1046	47.86	50	-4	
	2-Methylnaphthalene	2.3067	2.0464	44.36	50	-11	

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

PCH89 8858

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09355 Calibration Date: 11/28/11 Time: 20:57

Lab File ID: yn28c05.d Init. Calib. Date(s): 11/14/11 11/14/11

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

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Dibromofluoromethane	0.2475	0.2432	49.12	50	-2
Dibromofluoromethane(mz111)	0.2521	0.2508	49.74	50	-1
1,2-Dichloroethane-d4	0.0607	0.0633	52.12	50	4
1,2-Dichloroethane-d4(mz104)	0.0384	0.0390	50.69	50	1
Toluene-d8(mz100)	0.8583	0.8410	48.99	50	-2
1,2-Dichloroethane-d4(mz65)	0.3240	0.3200	49.39	50	-1
4-Bromofluorobenzene(mz174)	0.4619	0.4622	50.03	50	0
Toluene-d8	1.3189	1.3173	49.94	50	0
4-Bromofluorobenzene	0.4983	0.4927	49.44	50	-1

Average %Drift 5

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

PCH09 0051

Lancaster Laboratories

Continuing Calibration Internal Standard Check

Initial Calibration Standards:

/chem2/HP09355.i/11nov14a.b/yn14i13.d
/chem2/HP09355.i/11nov14a.b/yn14i12.d
/chem2/HP09355.i/11nov14a.b/yn14i11.d
/chem2/HP09355.i/11nov14a.b/yn14i10.d
/chem2/HP09355.i/11nov14a.b/yn14i09.d
/chem2/HP09355.i/11nov14a.b/yn14i08.d

File /chem2/HP09355.i/11nov14a.b/yn14i10.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem2/HP09355.i/11nov28b.b/yn28c05.d

RT Summary

Internal Standard Name	File ID: yn28c05.d	ICAL RT	In Spec
t-Butyl Alcohol-d10	2.139	2.145	Yes
Fluorobenzene	4.263	4.269	Yes
Chlorobenzene-d5	7.438	7.444	Yes
1,4-Dichlorobenzene-d4	9.440	9.440	Yes

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

Area Summary

Internal Standard Name	File ID: yn28c05.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl Alcohol-d10	377793	392612	196306	785224	Yes
Fluorobenzene	997807	1132019	566010	2264038	Yes
Chlorobenzene-d5	752584	857062	428531	1714124	Yes
1,4-Dichlorobenzene-d4	532749	584819	292410	1169638	Yes

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

Comments: _____

PCH09 8852

report generated on 11/28/2011 at 21:14

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_PCH09___

Lab File ID (Standard): yn28c05.d Date Analyzed: 11/28/11

Instrument ID: HP09355 Time Analyzed: 20:57

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	997807	4.262	752584	7.438	532749	9.440	377793	2.139
	UPPER LIMIT	1995614	4.762	1505168	7.938	1065498	9.940	755586	2.639
	LOWER LIMIT	498904	3.762	376292	6.938	266374	8.940	188896	1.639
	LAB SAMPLE ID								
01	VBLKY09	972843	4.262	725944	7.444	443680	9.434	355888	2.145
02	LCSY09	1002995	4.262	753408	7.444	491830	9.440	347889	2.145
03	6482077	985564	4.262	735004	7.438	449232	9.440	359098	2.139
04	6482078	897015	4.262	671291	7.438	413952	9.434	318423	2.139
05	6477561	900489	4.262	672852	7.444	412436	9.440	342245	2.139
06	6477562MS	949318	4.262	705487	7.444	469892	9.439	360771	2.145
07	6477563MSD	1014483	4.262	758613	7.444	500670	9.440	468101	2.151
08	6477564	969892	4.262	719005	7.438	441053	9.434		
09	6477565	941655	4.262	700700	7.438	432091	9.434		
10	6477566	902621	4.262	677170	7.438	410415	9.433		
11	6477567	894895	4.262	668624	7.438	410035	9.433		
12	6477568	861032	4.262	647113	7.438	393435	9.434		
13	6477569	883575	4.256	661184	7.438	402696	9.433		
14	6477570	853608	4.262	639129	7.438	389822	9.433		
15	6477571	856116	4.256	645799	7.438	395307	9.434		
16	6477572	834936	4.262	620724	7.438	381219	9.433		
17	6477573	814071	4.256	616986	7.438	374054	9.433		
18	6477574	838486	4.262	630810	7.438	383118	9.433		
19	6477575	809749	4.262	607066	7.438	373608	9.434		
20	6477576	804769	4.262	602912	7.438	368258	9.433		
21	6477577	797571	4.262	599661	7.438	364832	9.434		
22	6477041	806152	4.262	605820	7.444	368477	9.434	288202	2.145

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.

PCH09 8854

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.:_PCH09___

Lab File ID (Standard): yn28c05.d Date Analyzed: 11/28/11

Instrument ID: HP09355 Time Analyzed: 20:57

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	997807		4.262		752584		7.438		532749		9.440		377793		2.139	
UPPER LIMIT	1995614		4.762		1505168		7.938		1065498		9.940		755586		2.639	
LOWER LIMIT	498904		3.762		376292		6.938		266374		8.940		188896		1.639	
LAB SAMPLE ID																
23 6477044	797474		4.262		603618		7.438		367814		9.433		267686		2.145	
24 6477045	813264		4.256		612237		7.438		377890		9.433		271379		2.139	
25 6477075	796784		4.262		602355		7.438		360676		9.433		290998		2.133	

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

Lancaster Laboratories

LOQ/MDL Summary
GC/MS Volatiles

SDG: PCH09

Fraction: Volatiles by GC/MS

10903: UST VOCs 8260 (Water) Analyte Name	Default MDL	Default LOQ	Units
Methyl Tertiary Butyl Ether	0.5	5	ug/l
Benzene	0.5	5	ug/l
Toluene	0.7	5	ug/l
Ethylbenzene	0.8	5	ug/l
m+p-Xylene	0.8	5	ug/l
o-Xylene	0.8	5	ug/l
Xylene (Total)	0.8	5	ug/l

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT01

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477561

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s52.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/28/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477561

Data file: /chem2/HP09355.i/11nov28b.b/yn28s52.d
Injection date and time: **28-NOV-2011 22:52**
Data file Sample Info. Line: XXXXX;6477561;1;0;;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262	(0.000)	564	96	900489	(-10)	50.00	
106) Chlorobenzene-d5	7.444	(-0.006)	1087	117	672852	(-11)	50.00	
136) 1,4-Dichlorobenzene-d4	9.440	(0.000)	1415	152	412436	(-23)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.624	(-0.003)	113	215976	48.445	97%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928	(0.000)	102	55944	51.150	102%		77 - 113
93) Toluene-d8	(2)	5.887	(0.001)	98	866879	48.841	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.533	(0.000)	95	305430	45.548	91%		78 - 113

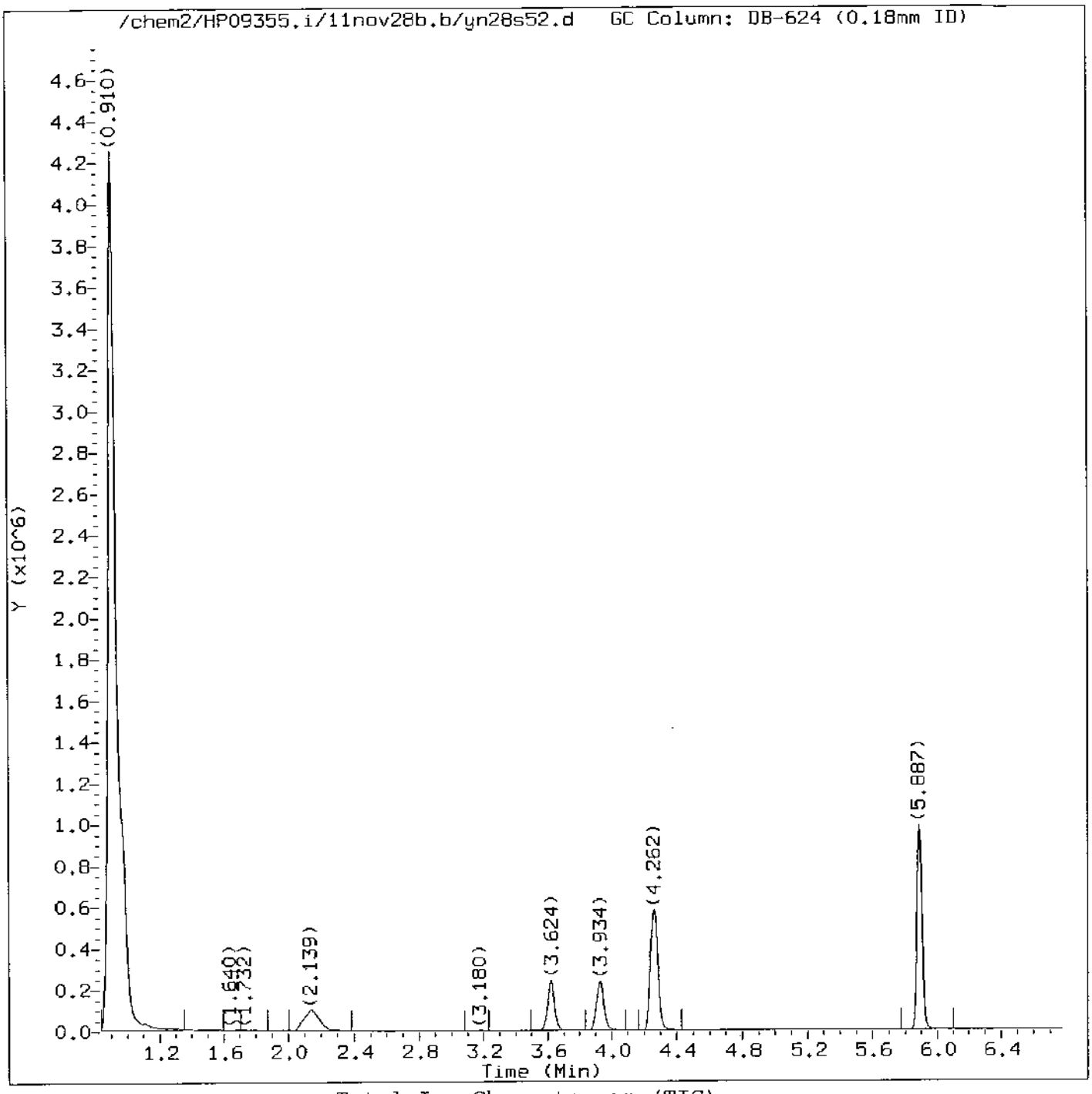
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ (in sample)
32) Methyl Tertiary Butyl Ether	(1)				Not Detected					0.5	5
63) Benzene	(1)				Not Detected					0.5	5
94) Toluene	(2)				Not Detected					0.7	5
109) Ethylbenzene	(2)				Not Detected					0.8	5
110) m+p-Xylene	(2)				Not Detected					0.8	5
112) Xylene (Total)	(2)				Not Detected					0.8	5
113) o-Xylene	(2)				Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:29. Target 3.5 esignature user ID: nrr01826

PCH09 0859

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

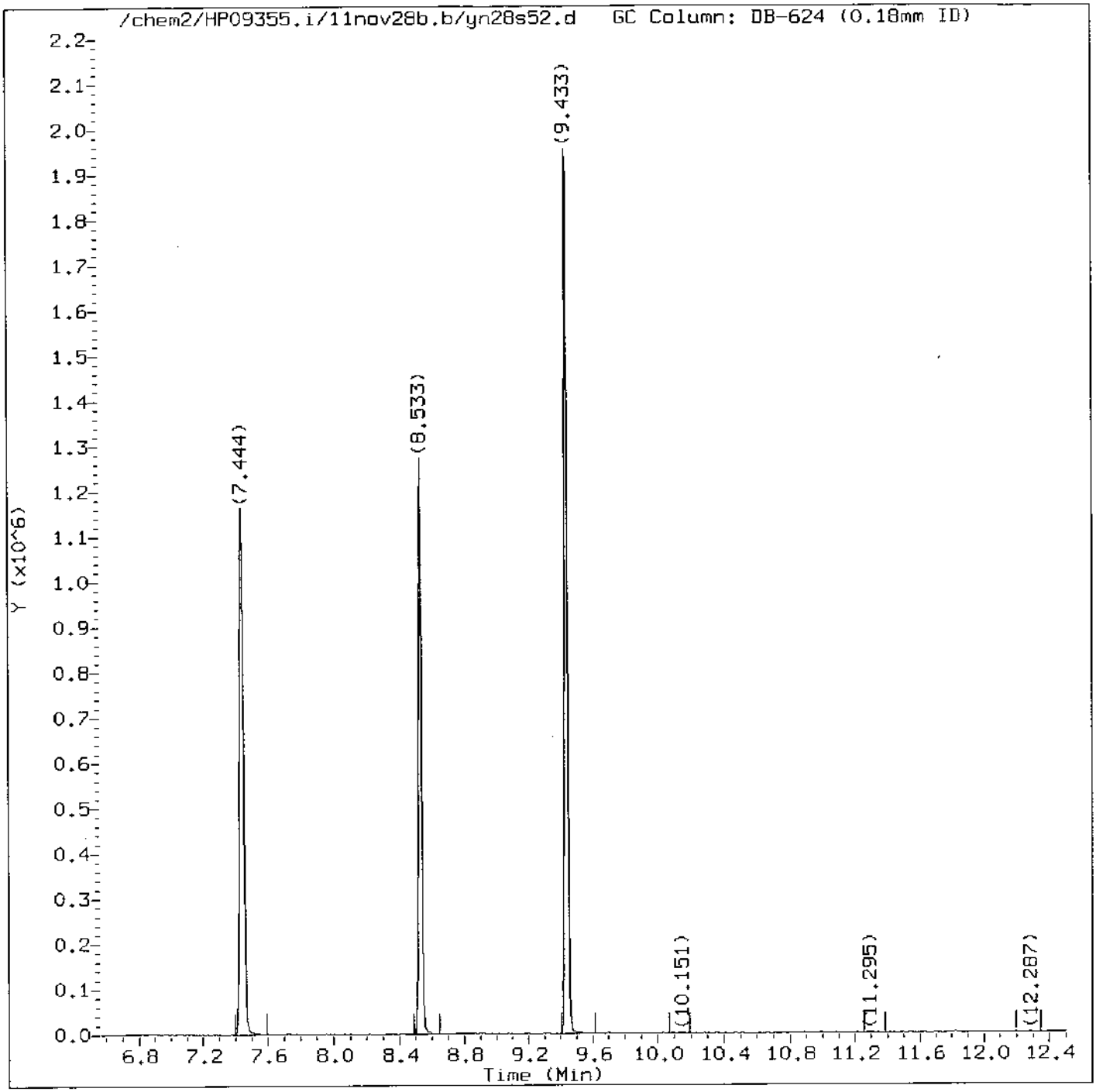
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Injection date and time: 28-NOV-2011 22:52 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477561

PCN89 8868

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:29.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s52.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 22:52 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477561

PCH89 8861

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:29.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s52.d
Injection date and time: 28-NOV-2011 22:52
Instrument ID: HP09355.i
Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m
Calibration date and time: 28-NOV-2011 22:41
Sublist used: 5844
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Sample Name: XXXXX
Lab Sample ID: 6477561

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52) $Dibromofluoromethane	(1)	3.624	113	215976	48.445
62) $1,2-Dichloroethane-d4	(1)	3.928	102	55944	51.150
71) *Fluorobenzene	(1)	4.262	96	900489	50.000
93) $Toluene-d8	(2)	5.887	98	866879	48.841
106) *Chlorobenzene-d5	(2)	7.444	117	672852	50.000
119) $4-Bromofluorobenzene	(2)	8.533	95	305430	45.548
136) *1,4-Dichlorobenzene-d4	(3)	9.440	152	412436	50.000

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

PCH09 8862

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:29.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT03

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477564

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s55.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/28/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477564

Data file: /chem2/HP09355.i/11nov28b.b/yn28s55.d
Injection date and time: **28-NOV-2011 23:54**
Data file Sample Info. Line: XXXXX;6477564;1;0;;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262(0.000)	564	96	969892 (-3)	50.00	
106) Chlorobenzene-d5	7.438(0.000)	1086	117	719005 (-4)	50.00	
136) 1,4-Dichlorobenzene-d4	9.434(0.006)	1414	152	441053 (-17)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.618(-0.001)	113	230498	48.003	96%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928(0.000)	102	58186	49.393	99%		77 - 113
93) Toluene-d8	(2)	5.887(0.000)	98	926917	48.871	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527(0.000)	95	328175	45.799	92%		78 - 113

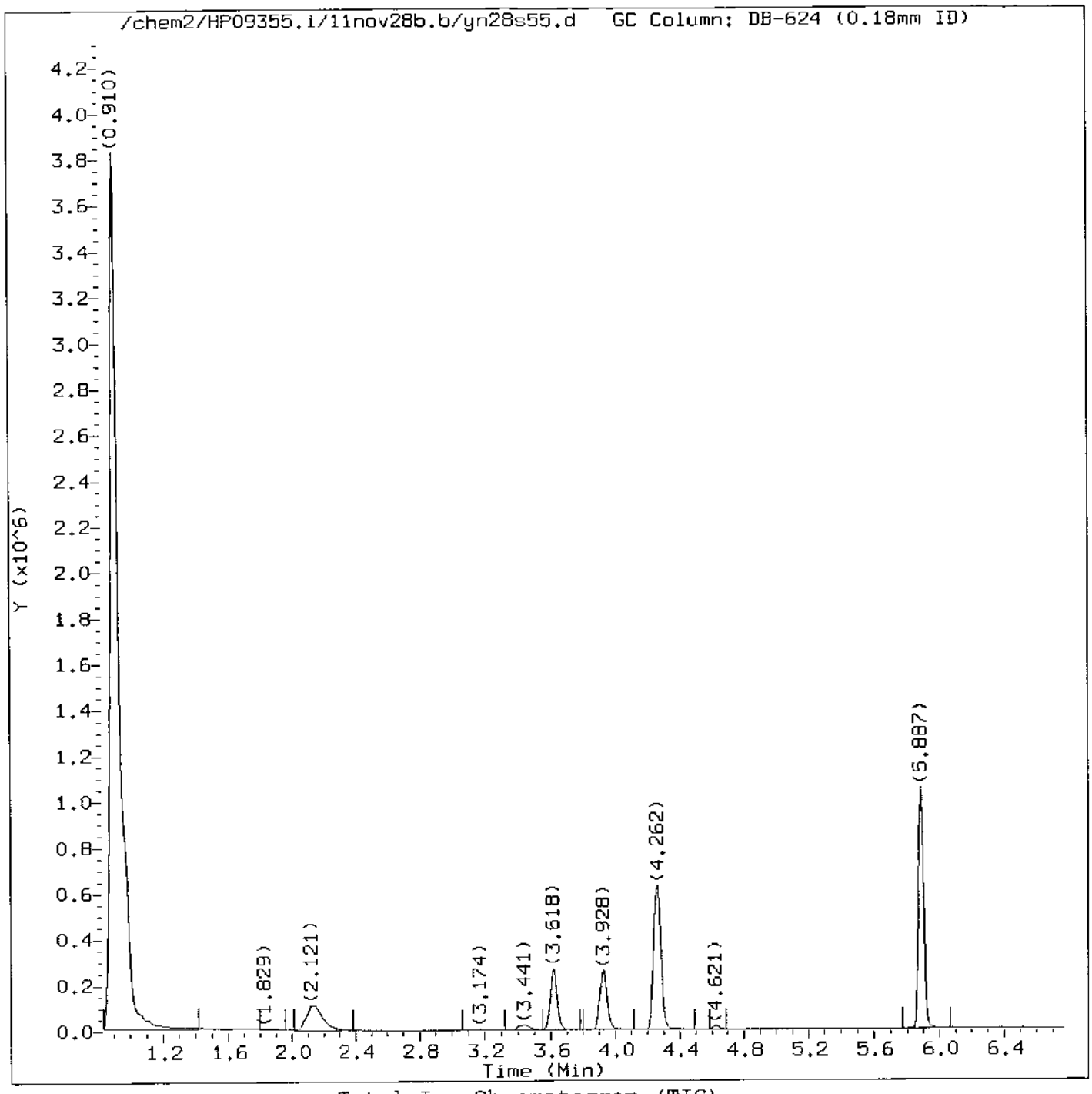
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
63) Benzene	(1)			Not Detected					0.5	5
94) Toluene	(2)			Not Detected					0.7	5
109) Ethylbenzene	(2)			Not Detected					0.8	5
110) m+p-Xylene	(2)			Not Detected					0.8	5
112) Xylene (Total)	(2)			Not Detected					0.8	5
113) o-Xylene	(2)			Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:32. Target 3.5 esignature user ID: nrr01826

PCH89 6864

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

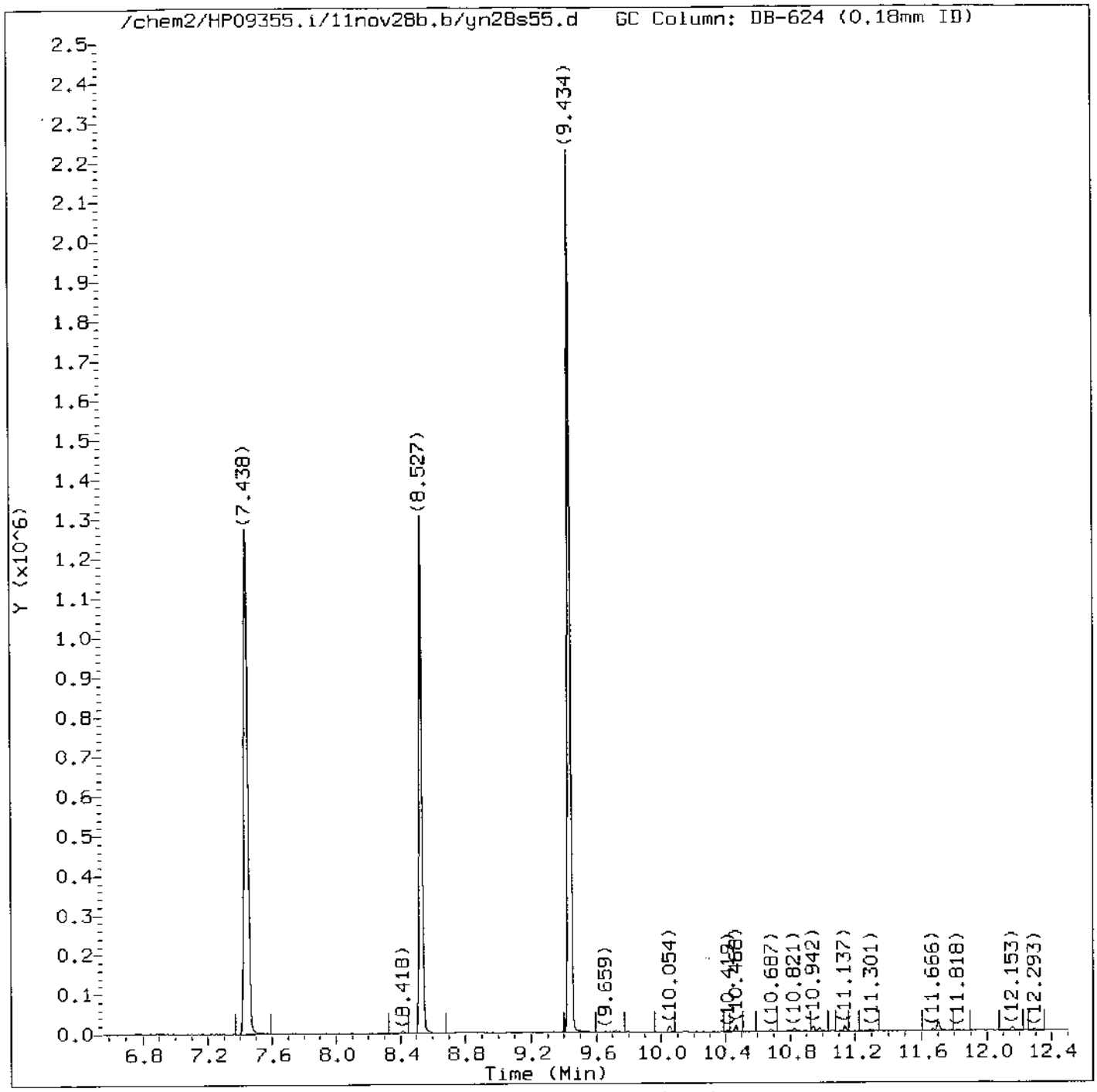
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Injection date and time: 28-NOV-2011 23:54 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477564

PCH89 8855

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:32.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s55.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 23:54 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477564

PCH09 8866

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:32.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s55.d
Injection date and time: 28-NOV-2011 23:54
Instrument ID: HP09355.i
Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m
Calibration date and time: 28-NOV-2011 22:41
Sublist used: 5844
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Sample Name: XXXXX
Lab Sample ID: 6477564

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52) $Dibromofluoromethane	(1)	3.618	113	230498	48.003
62) $1,2-Dichloroethane-d4	(1)	3.928	102	58186	49.393
71) *Fluorobenzene	(1)	4.262	96	969892	50.000
93) $Toluene-d8	(2)	5.887	98	926917	48.871
106) *Chlorobenzene-d5	(2)	7.438	117	719005	50.000
119) $4-Bromofluorobenzene	(2)	8.527	95	328175	45.799
136) *1,4-Dichlorobenzene-d4	(3)	9.434	152	441053	50.000

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

PCH89 0867

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:32.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT8D

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477565

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s56.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
1634-04-4	Methyl Tertiary Butyl Ether		5	U
71-43-2	Benzene		5	U
108-88-3	Toluene		5	U
100-41-4	Ethylbenzene		5	U
179601-23-1	m+p-Xylene		5	U
1330-20-7	Xylene (Total)		5	U
95-47-6	o-Xylene		5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477565

Data file: /chem2/HP09355.i/11nov28b.b/yn28s56.d
Data file Sample Info. Line: XXXXX;6477565;1;0;;;;;yn28b05;;
Date, time and analyst ID of latest file update: 29-Nov-2011 13:28 nrr01826

Injection date and time: **29-NOV-2011 00:15**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262	(0.000)	564	96	941655	(-6)	50.00	
106) Chlorobenzene-d5	7.438	(0.000)	1086	117	700700	(-7)	50.00	
136) 1,4-Dichlorobenzene-d4	9.434	(0.006)	1414	152	432091	(-19)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.624	(-0.003)	113	224024	48.054	96%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.934	(-0.001)	102	57828	50.562	101%		77 - 113
93) Toluene-d8	(2)	5.887	(0.000)	98	907765	49.112	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527	(0.000)	95	322612	46.199	92%		78 - 113

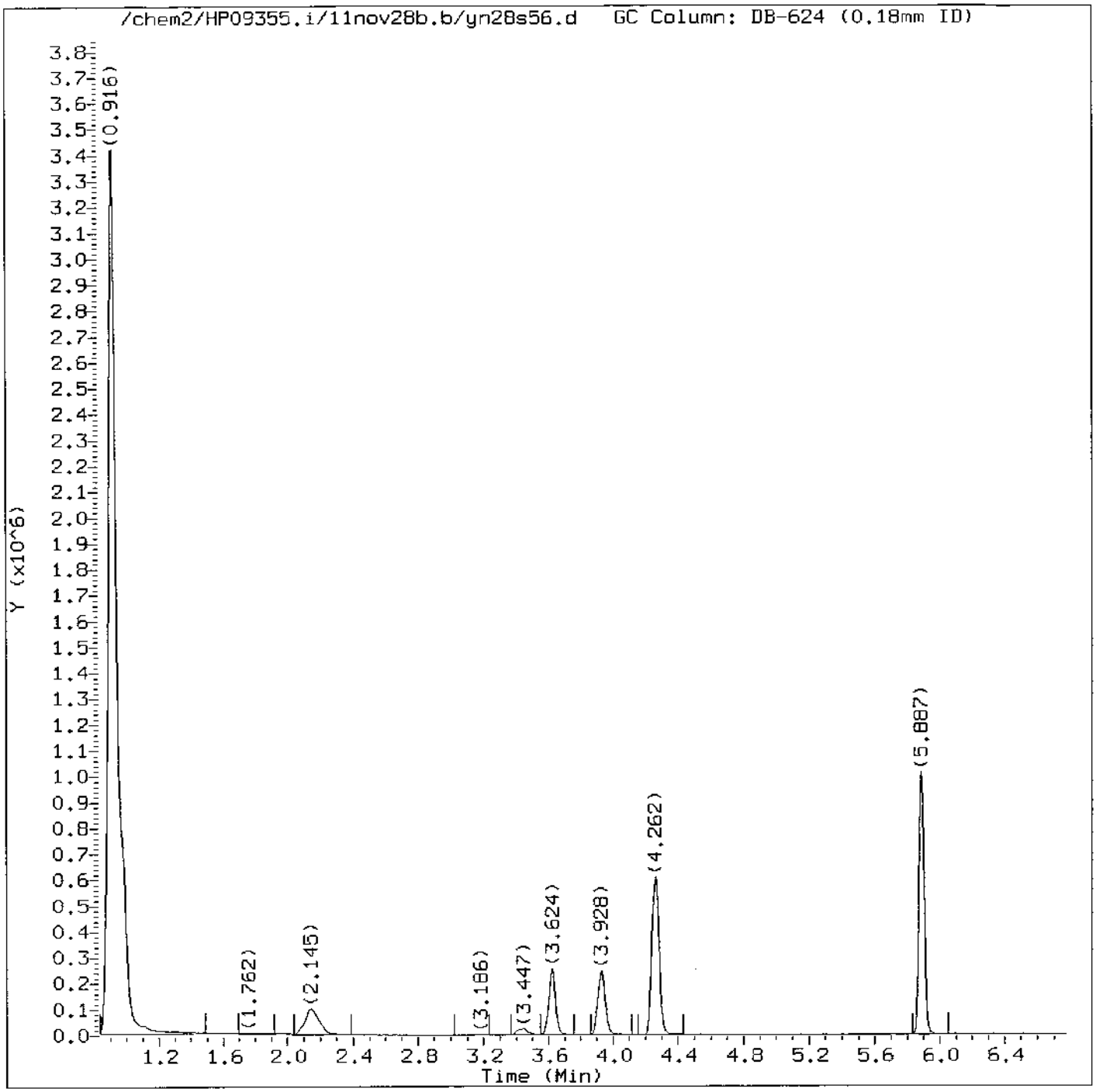
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)				Not Detected					0.5	5
63) Benzene	(1)				Not Detected					0.5	5
94) Toluene	(2)				Not Detected					0.7	5
109) Ethylbenzene	(2)				Not Detected					0.8	5
110) m+p-Xylene	(2)				Not Detected					0.8	5
112) Xylene (Total)	(2)				Not Detected					0.8	5
113) o-Xylene	(2)				Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:28. Target 3.5 esignature user ID: nrr01826

PCN89 8869

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

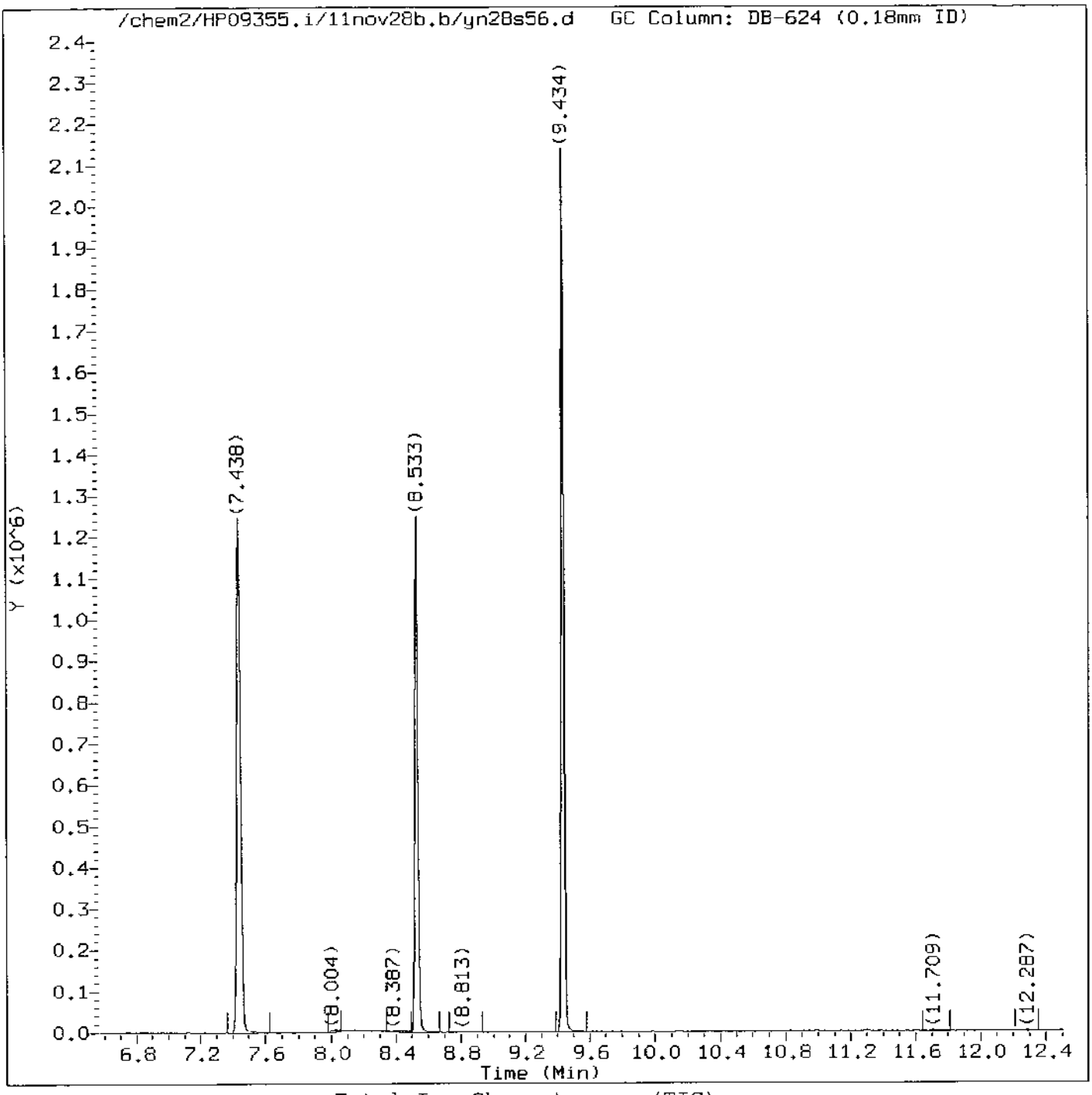
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Injection date and time: 29-NOV-2011 00:15 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:28 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477565

PCH89 8878

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:28.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s56.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 00:15 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:28 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477565

PCH09 8871

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:28.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s56.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 00:15 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:28 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477565

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52) $Dibromofluoromethane	(1)	3.624	113	224024	48.054
62) $1,2-Dichloroethane-d4	(1)	3.934	102	57828	50.562
71) *Fluorobenzene	(1)	4.262	96	941655	50.000
93) $Toluene-d8	(2)	5.887	98	907765	49.112
106) *Chlorobenzene-d5	(2)	7.438	117	700700	50.000
119) $4-Bromofluorobenzene	(2)	8.527	95	322612	46.199
136) *1,4-Dichlorobenzene-d4	(3)	9.434	152	432091	50.000

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

PCH89 0872

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:28.
Target 3.5 esignature user ID: nrr01826

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

PAT8S

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477566

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s57.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	0.5	J
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477566

Data file: /chem2/HP09355.i/11nov28b.b/yn28s57.d
Injection date and time: **29-NOV-2011 00:36**
Data file Sample Info. Line: XXXXX;6477566;1;0;;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 00:51 Automation

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262	(0.000)	564	96	902621	(-10)	50.00	
106) Chlorobenzene-d5	7.438	(0.000)	1086	117	677170	(-10)	50.00	
136) 1,4-Dichlorobenzene-d4	9.433	(0.006)	1414	152	410415	(-23)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.618	(-0.001)	113	216174	48.375	97%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928	(0.000)	102	55450	50.579	101%		77 - 113
93) Toluene-d8	(2)	5.887	(0.000)	98	859218	48.101	96%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527	(0.000)	95	305312	45.241	90%		78 - 113

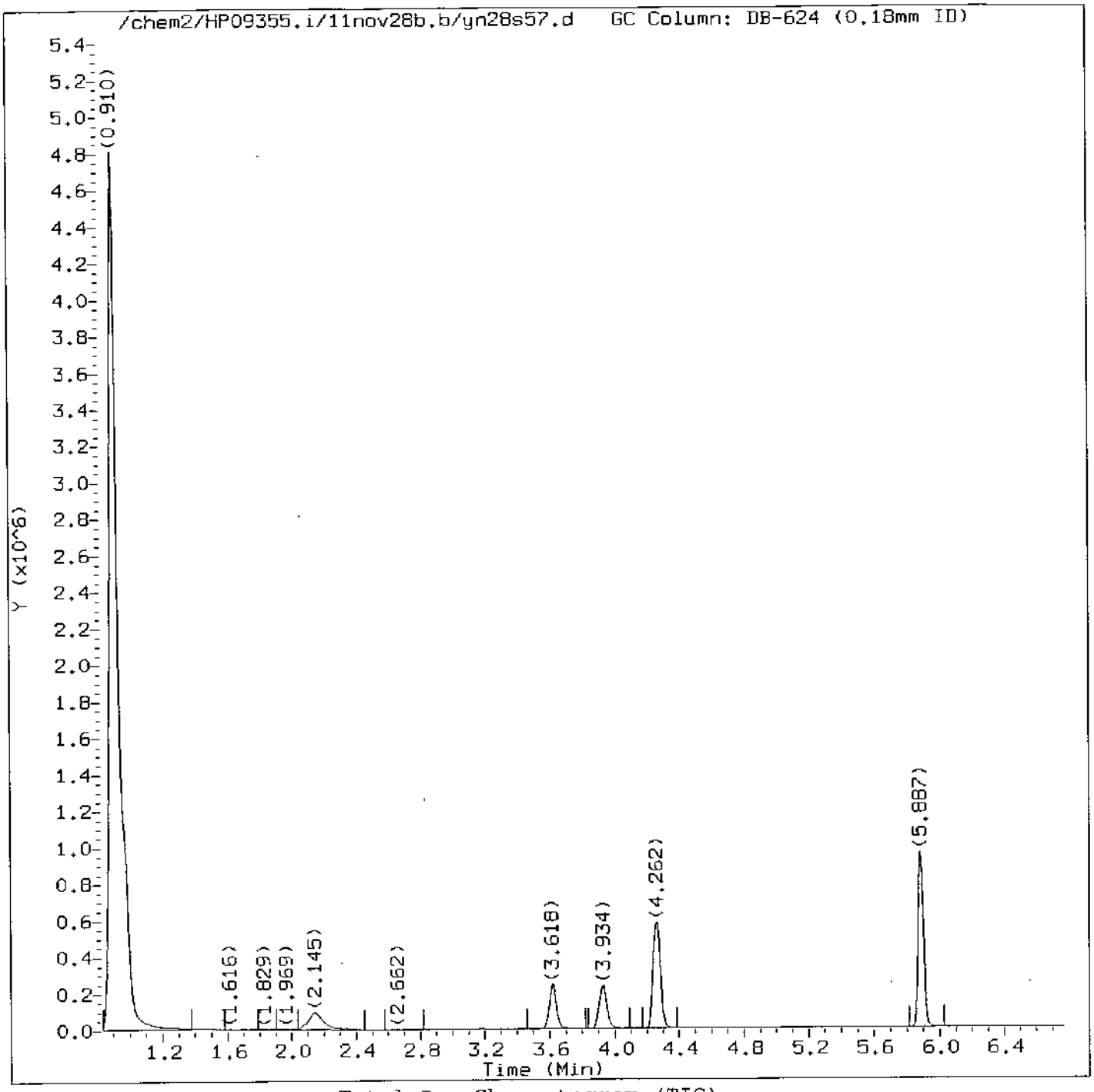
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)	2.334	(-0.001)	73	8405	0.506	0.51		J	0.5	5
63) Benzene	(1)				Not Detected					0.5	5
94) Toluene	(2)				Not Detected					0.7	5
109) Ethylbenzene	(2)				Not Detected					0.8	5
110) m+p-Xylene	(2)				Not Detected					0.8	5
112) Xylene (Total)	(2)				Not Detected					0.8	5
113) o-Xylene	(2)				Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:29. Target 3.5 esignature user ID: nrr01826

PCH09 0874

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

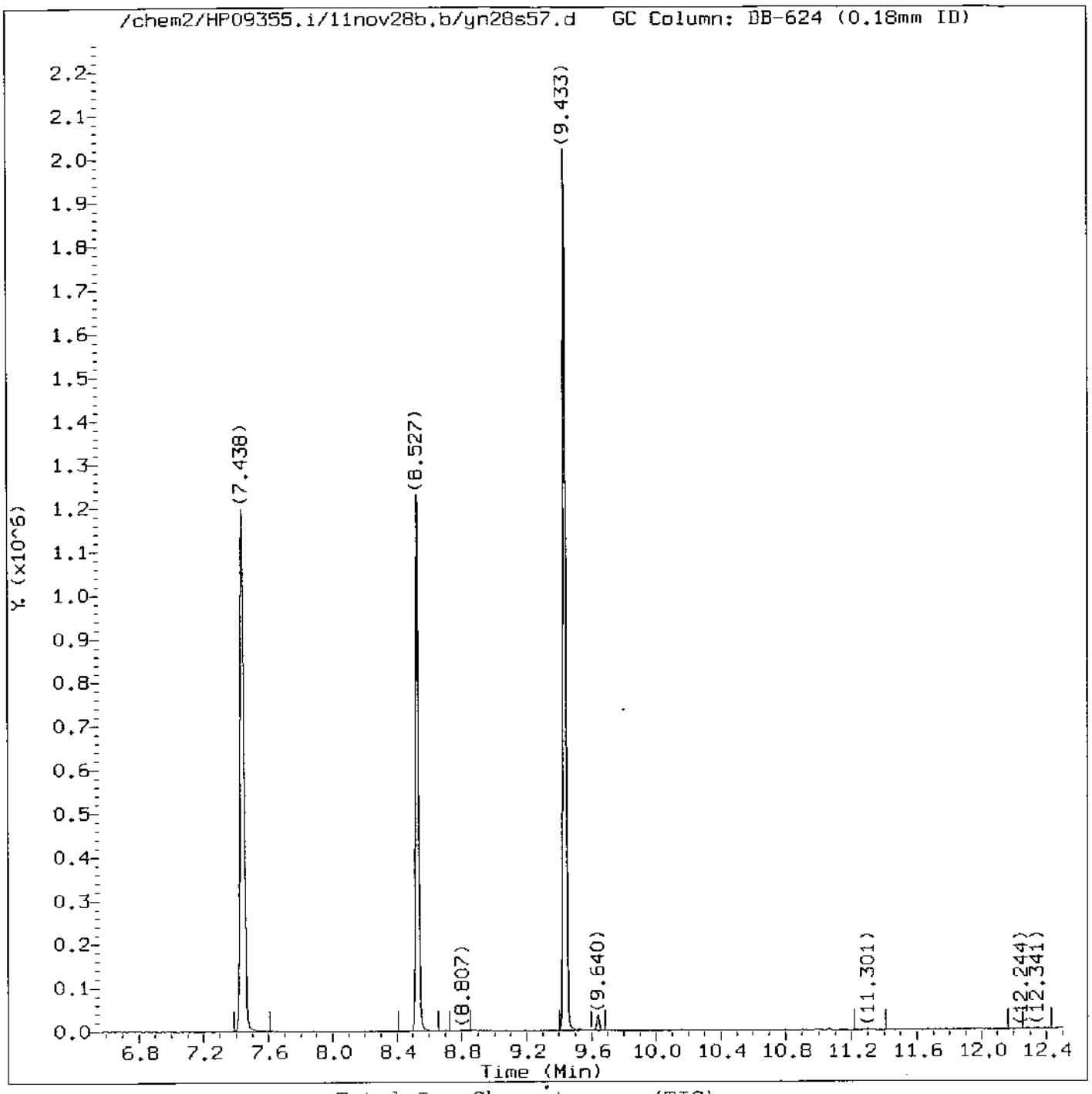
Data File: /chem2/HP09355.i/11nov28b.b/yn28s57.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 00:36 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 00:51 Automation

Sample Name: XXXXX Lab Sample ID: 6477566

PCH09 8875

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:29.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s57.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 00:36 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 00:51 Automation

Sample Name: XXXXX Lab Sample ID: 6477566

PCH09 2876

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:29.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s57.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 00:36 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 00:51 Automation

Sample Name: XXXXX Lab Sample ID: 6477566

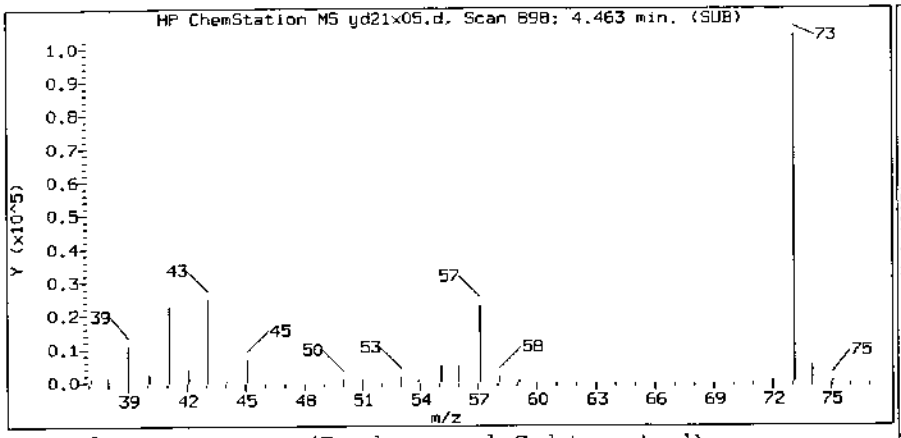
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
32) Methyl Tertiary Butyl Ether	(1)	2.334	73	8405	0.506
52)$Dibromofluoromethane	(1)	3.618	113	216174	48.375
62)$1,2-Dichloroethane-d4	(1)	3.928	102	55450	50.579
71)*Fluorobenzene	(1)	4.262	96	902621	50.000
93)$Toluene-d8	(2)	5.887	98	859218	48.101
106)*Chlorobenzene-d5	(2)	7.438	117	677170	50.000
119)$4-Bromofluorobenzene	(2)	8.527	95	305312	45.241
136)*1,4-Dichlorobenzene-d4	(3)	9.433	152	410415	50.000

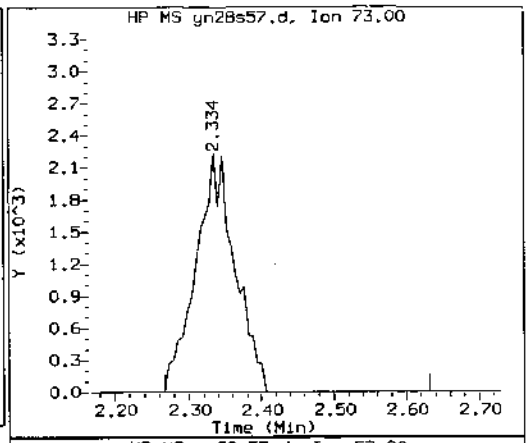
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PCH09 0077

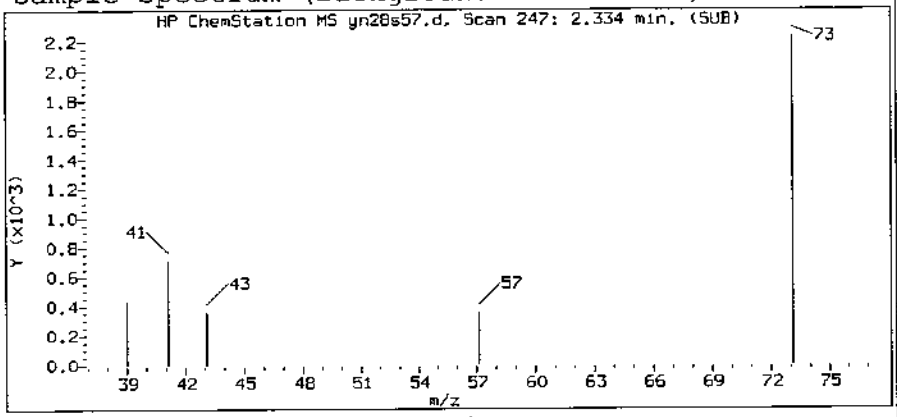
Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:29.
Target 3.5 esignature user ID: nrr01826

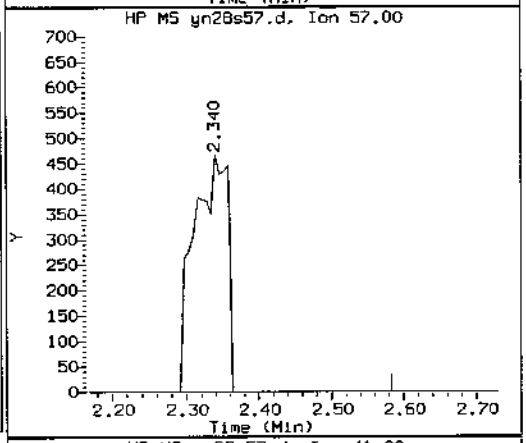
Reference Standard Spectrum for Methyl Tertiary Butyl Ether



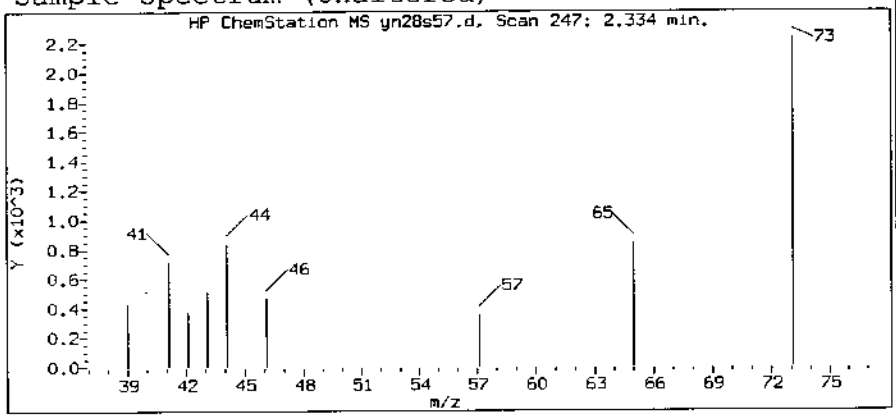


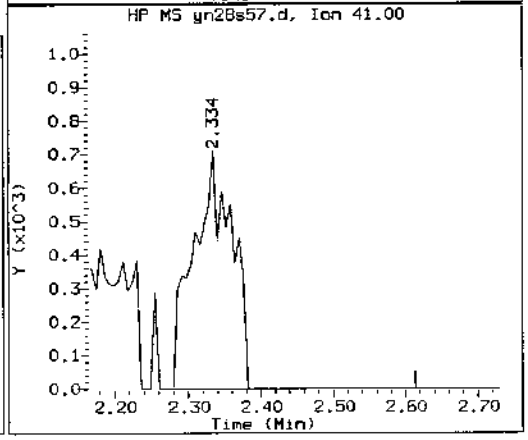
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/11nov28b.b/yn28s57.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 00:36 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 00:51 Automation

Sample Name: XXXXX Lab Sample ID: 6477566

Compound Number : 32
Compound Name : Methyl Tertiary Butyl Ether
Scan Number : 247
Retention Time (minutes): 2.334
Relative Retention Time :-0.00141
Quant Ion : 73.00
Area (flag) : 8405
On-Column Amount (ng) : 0.5057

PCH09 8678

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:29.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PATFD

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477567

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s58.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477567

Data file: /chem2/HP09355.i/11nov28b.b/yn28s58.d
Data file Sample Info. Line: XXXXX;6477567;1;0;;;;;yn28b05;;
Date, time and analyst ID of latest file update: 29-Nov-2011 13:29 nrr01826

Injection date and time: **29-NOV-2011 00:56**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262(0.000)	564	96	894895 (-10)	50.00	
106) Chlorobenzene-d5	7.438(0.000)	1086	117	668624 (-11)	50.00	
136) 1,4-Dichlorobenzene-d4	9.433(0.006)	1414	152	410035 (-23)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.618(-0.001)	113	214603	48.438	97%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928(0.000)	102	54519	50.159	100%		77 - 113
93) Toluene-d8	(2)	5.887(0.000)	98	865633	49.079	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527(0.000)	95	306798	46.042	92%		78 - 113

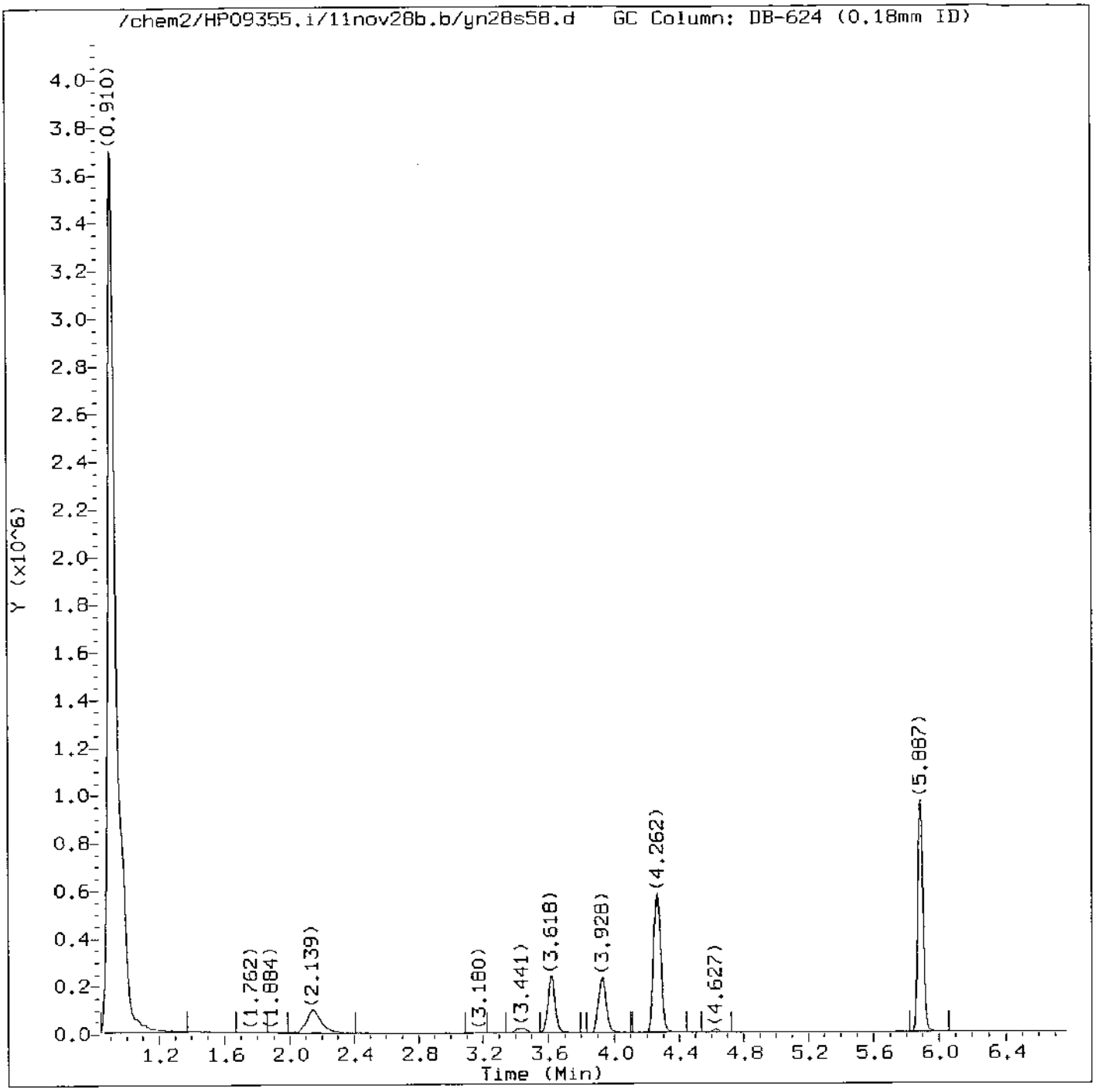
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
63) Benzene	(1)			Not Detected					0.5	5
94) Toluene	(2)			Not Detected					0.7	5
109) Ethylbenzene	(2)			Not Detected					0.8	5
110) m+p-Xylene	(2)			Not Detected					0.8	5
112) Xylene (Total)	(2)			Not Detected					0.8	5
113) o-Xylene	(2)			Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:29. Target 3.5 esignature user ID: nrr01826

PCH89 8888

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00449



Total Ion Chromatogram (TIC)

Target Revision 3.5

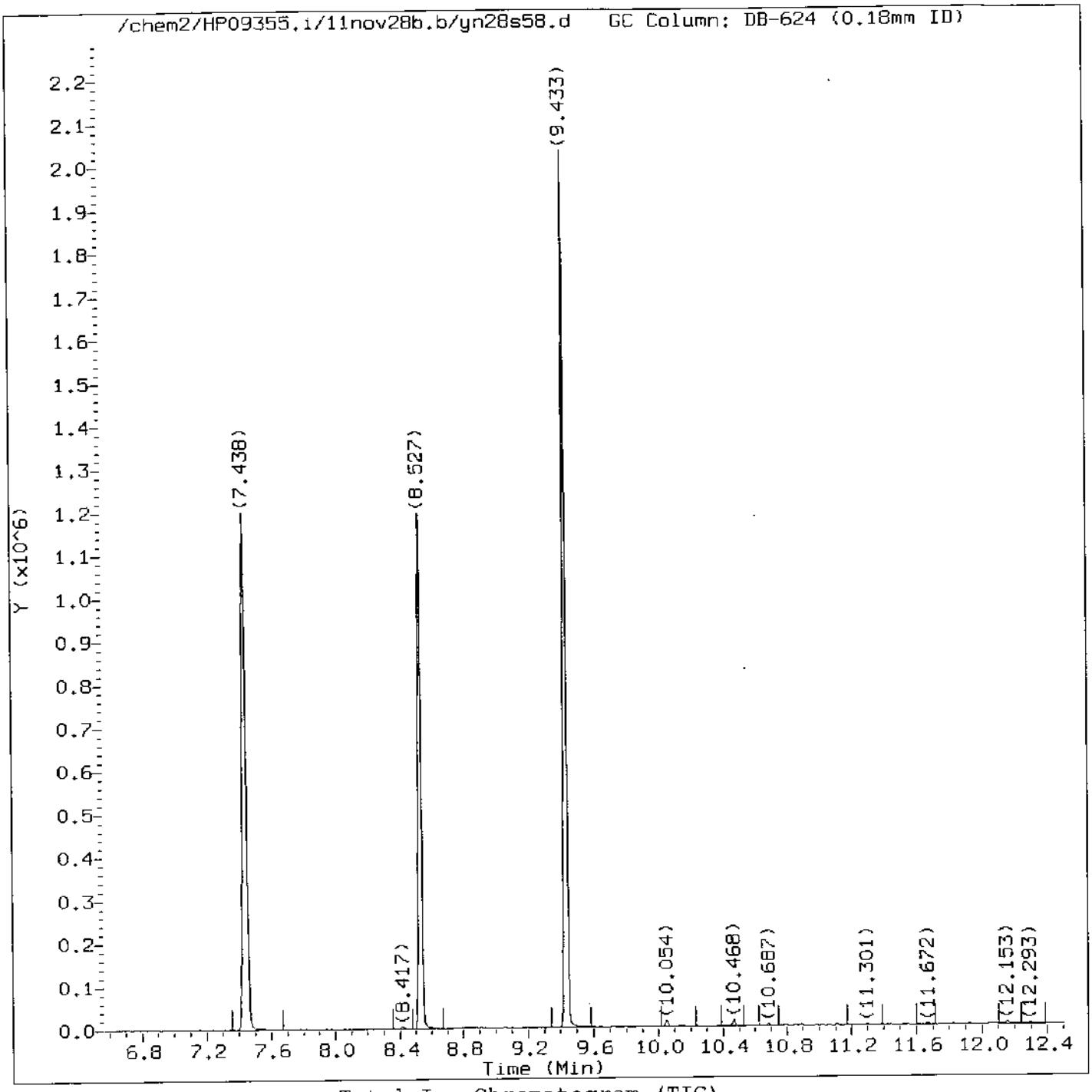
Data File: /chem2/HP09355.i/11nov28b.b/yn28s58.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 00:56 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:29 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477567

PCH89 8801

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:29.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s58.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 00:56 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:29 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477567

PCH89 0882

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:29.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s58.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 00:56 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:29 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477567

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52) $Dibromofluoromethane	(1)	3.618	113	214603	48.438
62) $1,2-Dichloroethane-d4	(1)	3.928	102	54519	50.159
71) *Fluorobenzene	(1)	4.262	96	894895	50.000
93) $Toluene-d8	(2)	5.887	98	865633	49.079
106) *Chlorobenzene-d5	(2)	7.438	117	668624	50.000
119) $4-Bromofluorobenzene	(2)	8.527	95	306798	46.042
136) *1,4-Dichlorobenzene-d4	(3)	9.433	152	410035	50.000

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

PCH03 0883

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:29.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT9S

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477568

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s59.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
1634-04-4	Methyl Tertiary Butyl Ether		5	U
71-43-2	Benzene		5	U
108-88-3	Toluene		5	U
100-41-4	Ethylbenzene		5	U
179601-23-1	m+p-Xylene		5	U
1330-20-7	Xylene (Total)		5	U
95-47-6	o-Xylene		5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477568

Data file: /chem2/HP09355.i/11nov28b.b/yn28s59.d
Injection date and time: **29-NOV-2011 01:17**
Data file Sample Info. Line: XXXXX;6477568;1;0;;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 01:32 Automation

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262(0.000)	564	96	861032 (-14)	50.00	
106) Chlorobenzene-d5	7.438(0.000)	1086	117	647113 (-14)	50.00	
136) 1,4-Dichlorobenzene-d4	9.434(0.006)	1414	152	393435 (-26)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.618(-0.001)	113	208960	49.020	98%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.922(0.001)	102	48992	46.847	94%		77 - 113
93) Toluene-d8	(2)	5.881(0.001)	98	809733	47.436	95%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527(0.000)	95	292854	45.410	91%		78 - 113

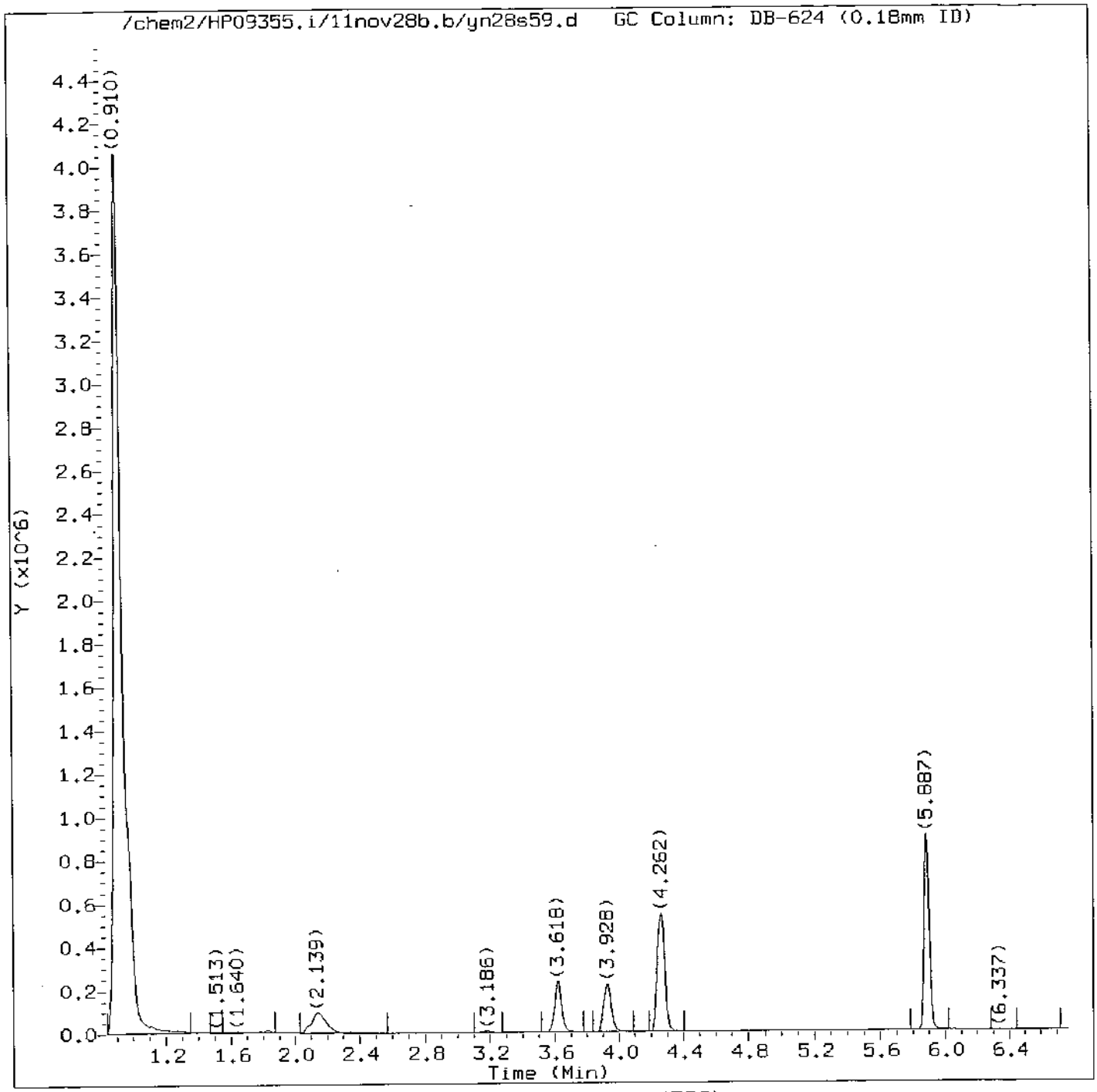
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
63) Benzene	(1)			Not Detected					0.5	5
94) Toluene	(2)			Not Detected					0.7	5
109) Ethylbenzene	(2)			Not Detected					0.8	5
110) m+p-Xylene	(2)			Not Detected					0.8	5
112) Xylene (Total)	(2)			Not Detected					0.8	5
113) o-Xylene	(2)			Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:30. Target 3.5 esignature user ID: nrr01826

PCH89 8885

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s59.d
Injection date and time: 29-NOV-2011 01:17

Instrument ID: HP09355.i
Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 01:32 Automation

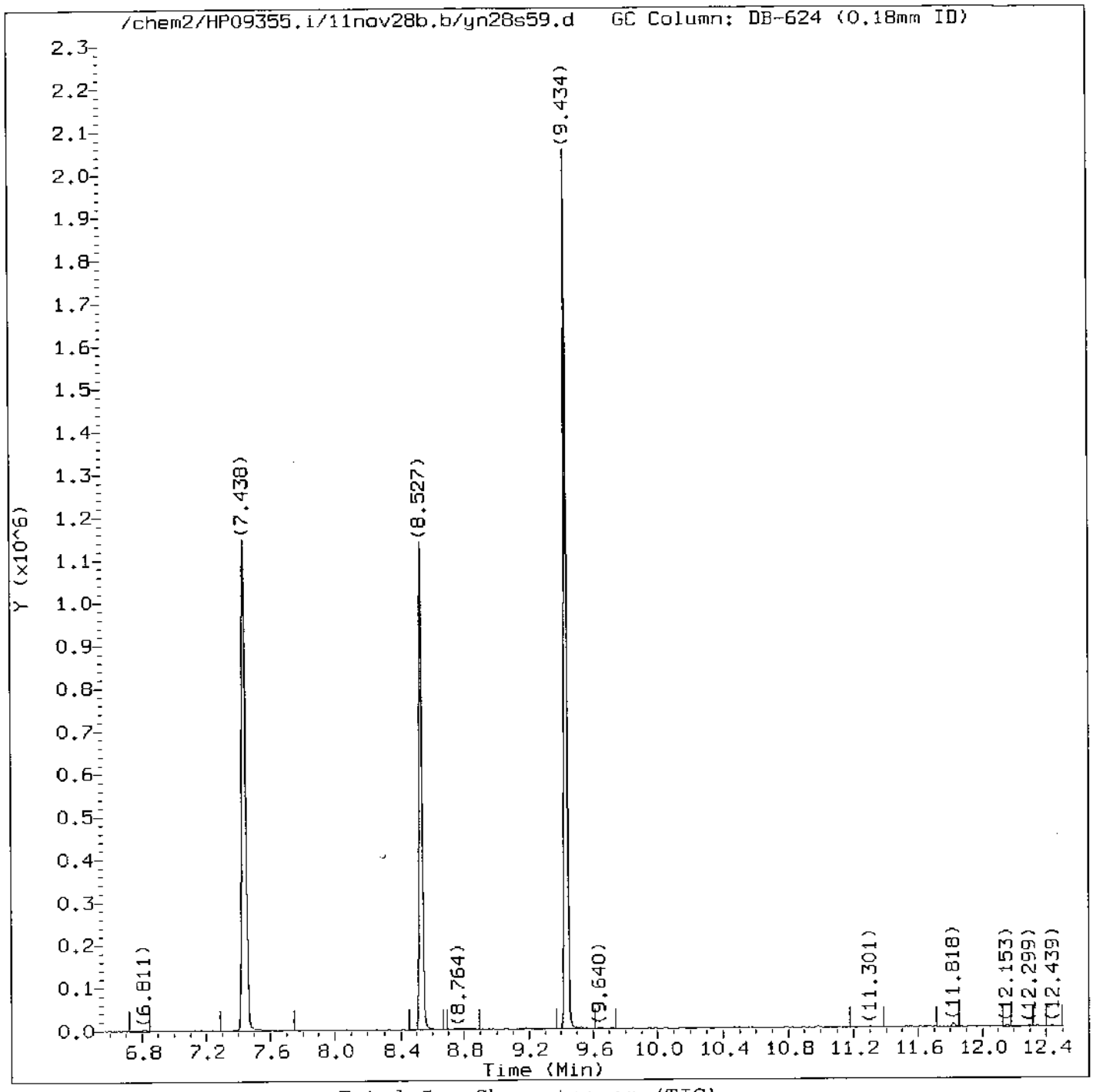
Sublist used: 5844

Sample Name: XXXXX

Lab Sample ID: 6477568

PCH09 0006

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:30.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s59.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 01:17 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 01:32 Automation

Sample Name: XXXXX Lab Sample ID: 6477568

PCN09 6687

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:30.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s59.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 01:17 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 01:32 Automation

Sample Name: XXXXX Lab Sample ID: 6477568

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52) $Dibromofluoromethane	(1)	3.618	113	208960	49.020
62) $1,2-Dichloroethane-d4	(1)	3.922	102	48992	46.847
71) *Fluorobenzene	(1)	4.262	96	861032	50.000
93) $Toluene-d8	(2)	5.881	98	809733	47.436
106) *Chlorobenzene-d5	(2)	7.438	117	647113	50.000
119) $4-Bromofluorobenzene	(2)	8.527	95	292854	45.410
136) *1,4-Dichlorobenzene-d4	(3)	9.434	152	393435	50.000

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

PCH89 8888

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:30.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT9D

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477569

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s60.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477569

Data file: /chem2/HP09355.i/11nov28b.b/yn28s60.d
Data file Sample Info. Line: XXXXX;6477569;1;0;;;;;yn28b05;;
Date, time and analyst ID of latest file update: 29-Nov-2011 13:30 nrr01826

Injection date and time: **29-NOV-2011 01:37**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.256(0.006)	563	96	883575 (-11)	50.00	
106) Chlorobenzene-d5	7.438(0.000)	1086	117	661184 (-12)	50.00	
136) 1,4-Dichlorobenzene-d4	9.433(0.006)	1414	152	402696 (-24)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.611(-0.001)	113	213105	48.716	97%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.922(0.000)	102	52924	49.316	99%		77 - 113
93) Toluene-d8	(2)	5.881(0.001)	98	849939	48.732	97%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527(0.000)	95	299659	45.476	91%		78 - 113

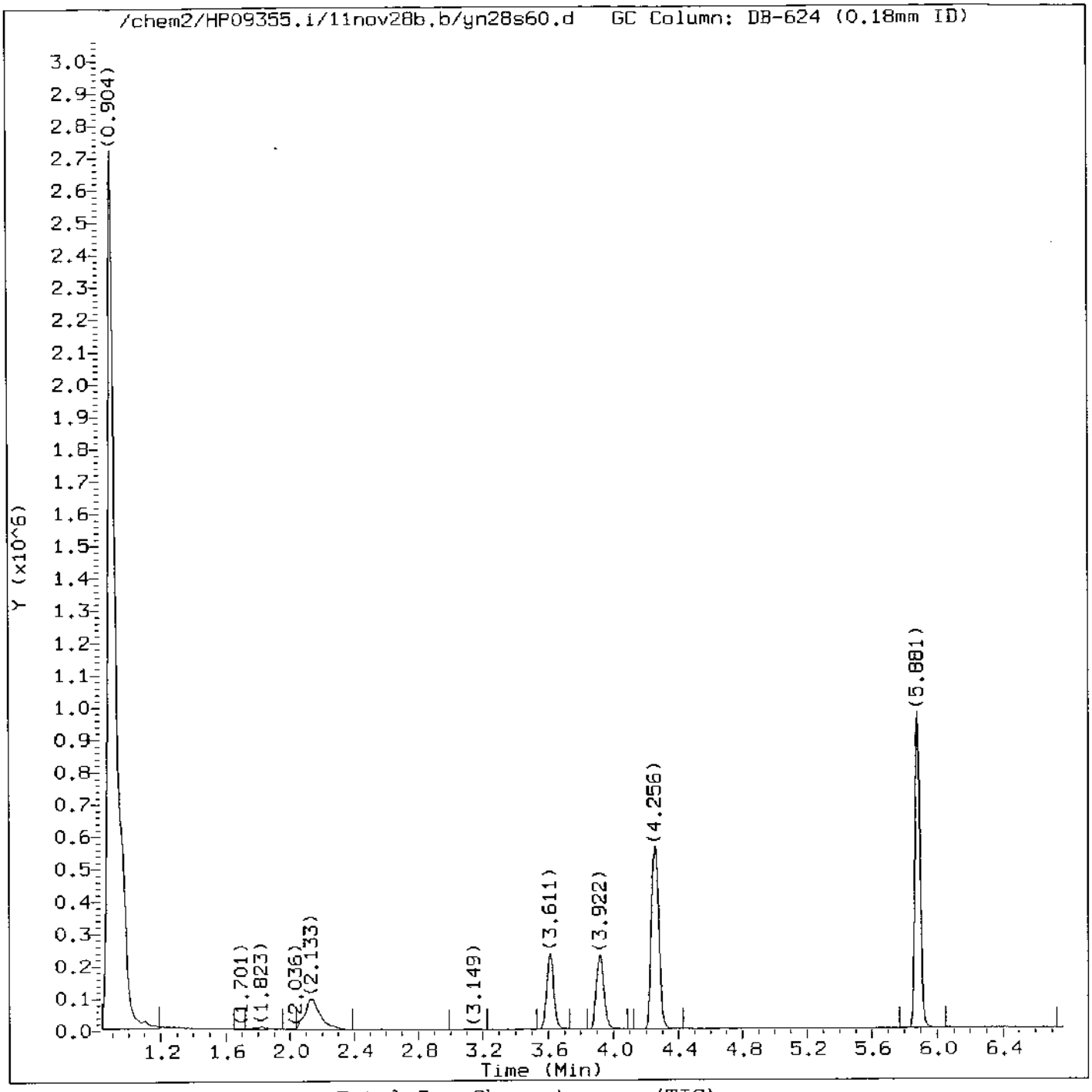
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
63) Benzene	(1)			Not Detected					0.5	5
94) Toluene	(2)			Not Detected					0.7	5
109) Ethylbenzene	(2)			Not Detected					0.8	5
110) m+p-Xylene	(2)			Not Detected					0.8	5
112) Xylene (Total)	(2)			Not Detected					0.8	5
113) o-Xylene	(2)			Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:30. Target 3.5 esignature user ID: nrr01826

PCH09 8898

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

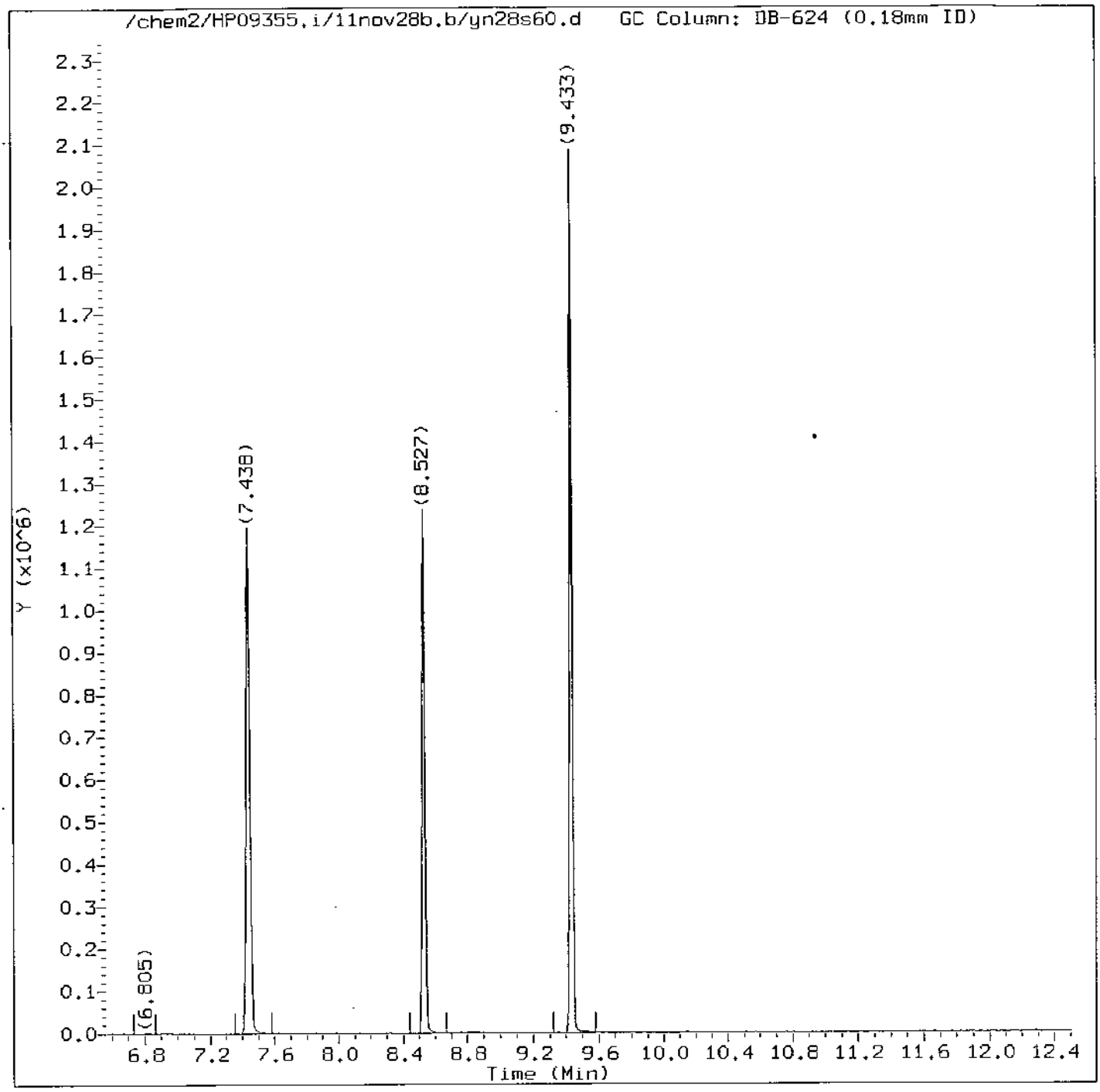
Data File: /chem2/HP09355.i/11nov28b.b/yn28s60.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 01:37 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:30 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477569

PCH09 8891

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:30.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s60.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 01:37 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:30 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477569

PCH09 0892

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:30.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s60.d
Injection date and time: 29-NOV-2011 01:37
Instrument ID: HP09355.i
Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m
Calibration date and time: 28-NOV-2011 22:41
Sublist used: 5844
Date, time and analyst ID of latest file update: 29-Nov-2011 13:30 nrr01826

Sample Name: XXXXX
Lab Sample ID: 6477569

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52)$Dibromofluoromethane	(1)	3.611	113	213105	48.716
62)$1,2-Dichloroethane-d4	(1)	3.922	102	52924	49.316
71)*Fluorobenzene	(1)	4.256	96	883575	50.000
93)$Toluene-d8	(2)	5.881	98	849939	48.732
106)*Chlorobenzene-d5	(2)	7.438	117	661184	50.000
119)$4-Bromofluorobenzene	(2)	8.527	95	299659	45.476
136)*1,4-Dichlorobenzene-d4	(3)	9.433	152	402696	50.000

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

PCH09 8893

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:30.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT4S

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477570

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s61.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477570

Data file: /chem2/HP09355.i/11nov28b.b/yn28s61.d
Data file Sample Info. Line: XXXXX;6477570;1;0;;;;;yn28b05;;
Date, time and analyst ID of latest file update: 29-Nov-2011 13:31 nrr01826

Injection date and time: **29-NOV-2011 01:58**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262	(0.000)	564	96	853608	(-14)	50.00	
106) Chlorobenzene-d5	7.438	(0.000)	1086	117	639129	(-15)	50.00	
136) 1,4-Dichlorobenzene-d4	9.433	(0.006)	1414	152	389822	(-27)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.618	(-0.001)	113	205813	48.701	97%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928	(0.000)	102	51882	50.042	100%		77 - 113
93) Toluene-d8	(2)	5.881	(0.001)	98	822810	48.804	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527	(0.000)	95	289094	45.387	91%		78 - 113

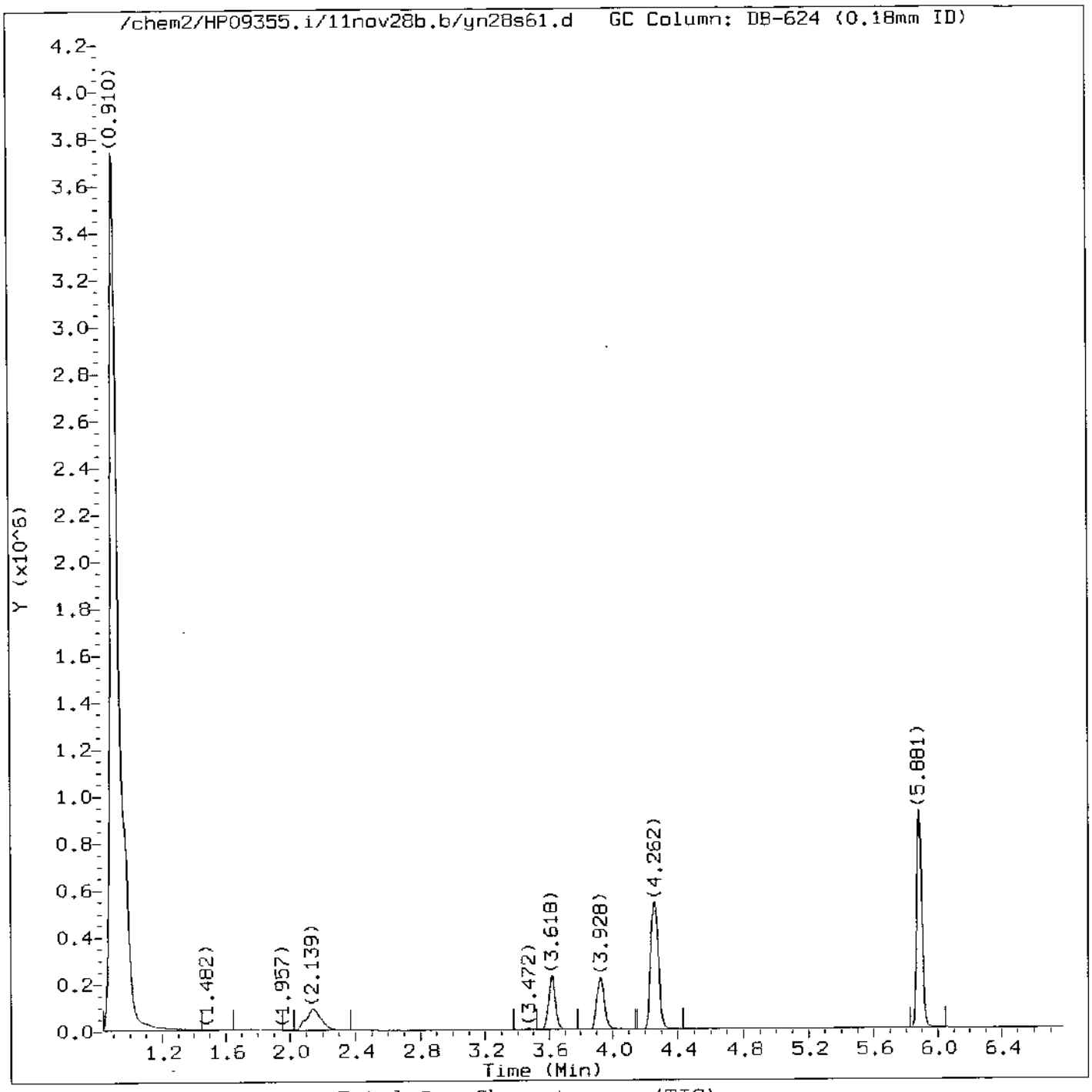
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)				Not Detected					0.5	5
63) Benzene	(1)				Not Detected					0.5	5
94) Toluene	(2)				Not Detected					0.7	5
109) Ethylbenzene	(2)				Not Detected					0.8	5
110) m+p-Xylene	(2)				Not Detected					0.8	5
112) Xylene (Total)	(2)				Not Detected					0.8	5
113) o-Xylene	(2)				Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:31. Target 3.5 esignature user ID: nrr01826

PCH89 8895

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

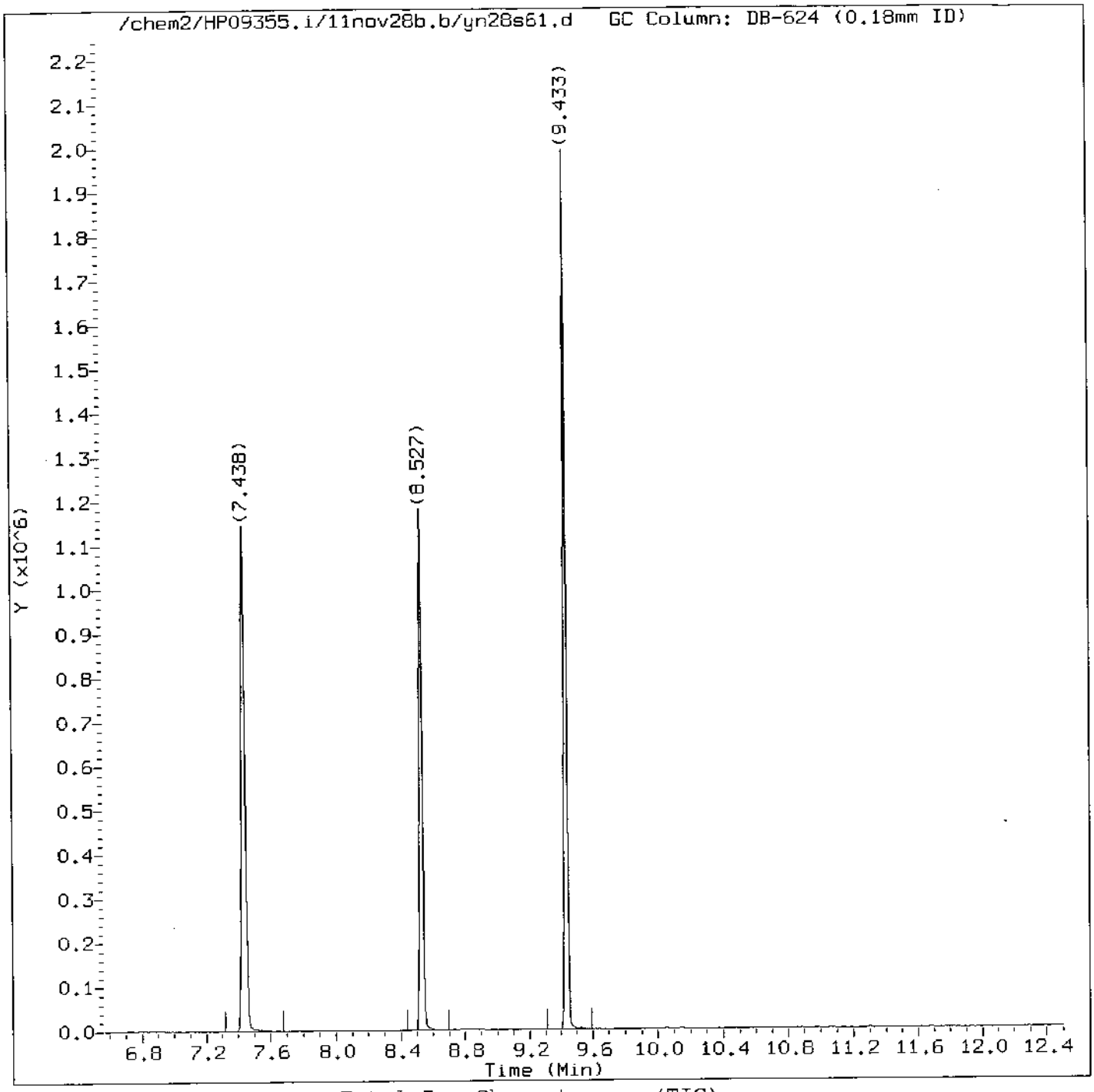
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Injection date and time: 29-NOV-2011 01:58 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:31 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477570

PCH09 0896

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:31.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s61.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 01:58 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:31 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477570

PCH09 0897

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:31.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s61.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 01:58 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:31 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477570

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52) $Dibromofluoromethane	(1)	3.618	113	205813	48.701
62) $1,2-Dichloroethane-d4	(1)	3.928	102	51882	50.042
71) *Fluorobenzene	(1)	4.262	96	853608	50.000
93) $Toluene-d8	(2)	5.881	98	822810	48.804
106) *Chlorobenzene-d5	(2)	7.438	117	639129	50.000
119) $4-Bromofluorobenzene	(2)	8.527	95	289094	45.387
136) *1,4-Dichlorobenzene-d4	(3)	9.433	152	389822	50.000

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

PCN89 0098

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:31.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT4D

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477571

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s62.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477571

Data file: /chem2/HP09355.i/11nov28b.b/yn28s62.d
Injection date and time: **29-NOV-2011 02:19**
Data file Sample Info. Line: XXXXX;6477571;1;0;;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 02:34 Automation

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.256(0.006)	563	96	856116 (-14)	50.00	
106) Chlorobenzene-d5	7.438(0.000)	1086	117	645799 (-14)	50.00	
136) 1,4-Dichlorobenzene-d4	9.434(0.006)	1414	152	395307 (-26)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.612(-0.001)	113	208204	49.123	98%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.922(0.000)	102	52657	50.640	101%		77 - 113
93) Toluene-d8	(2)	5.881(0.001)	98	833201	48.910	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527(0.000)	95	291655	45.316	91%		78 - 113

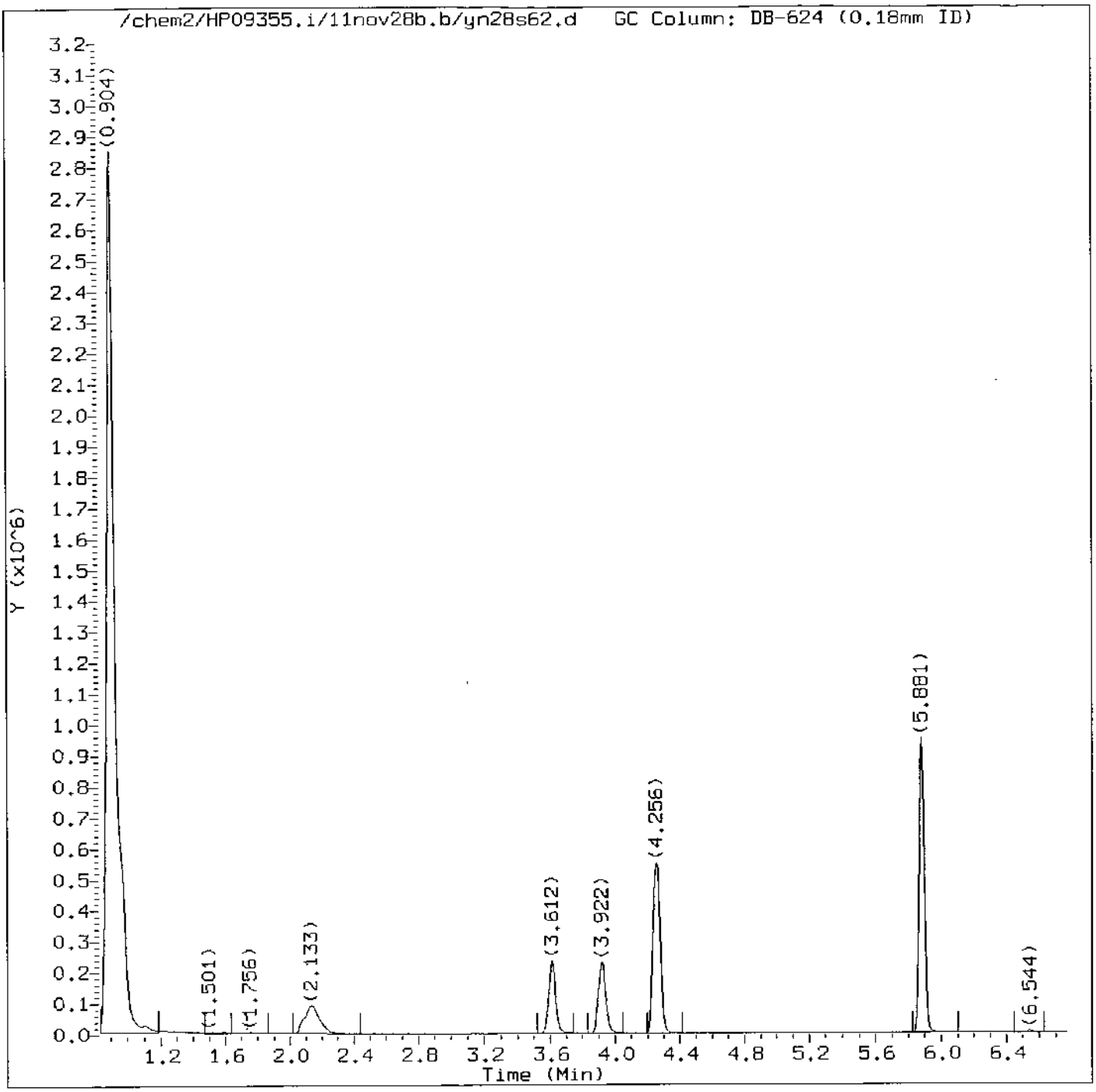
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
63) Benzene	(1)			Not Detected					0.5	5
94) Toluene	(2)			Not Detected					0.7	5
109) Ethylbenzene	(2)			Not Detected					0.8	5
110) m+p-Xylene	(2)			Not Detected					0.8	5
112) Xylene (Total)	(2)			Not Detected					0.8	5
113) o-Xylene	(2)			Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:31. Target 3.5 esignature user ID: nrr01826

PCN89 8188

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

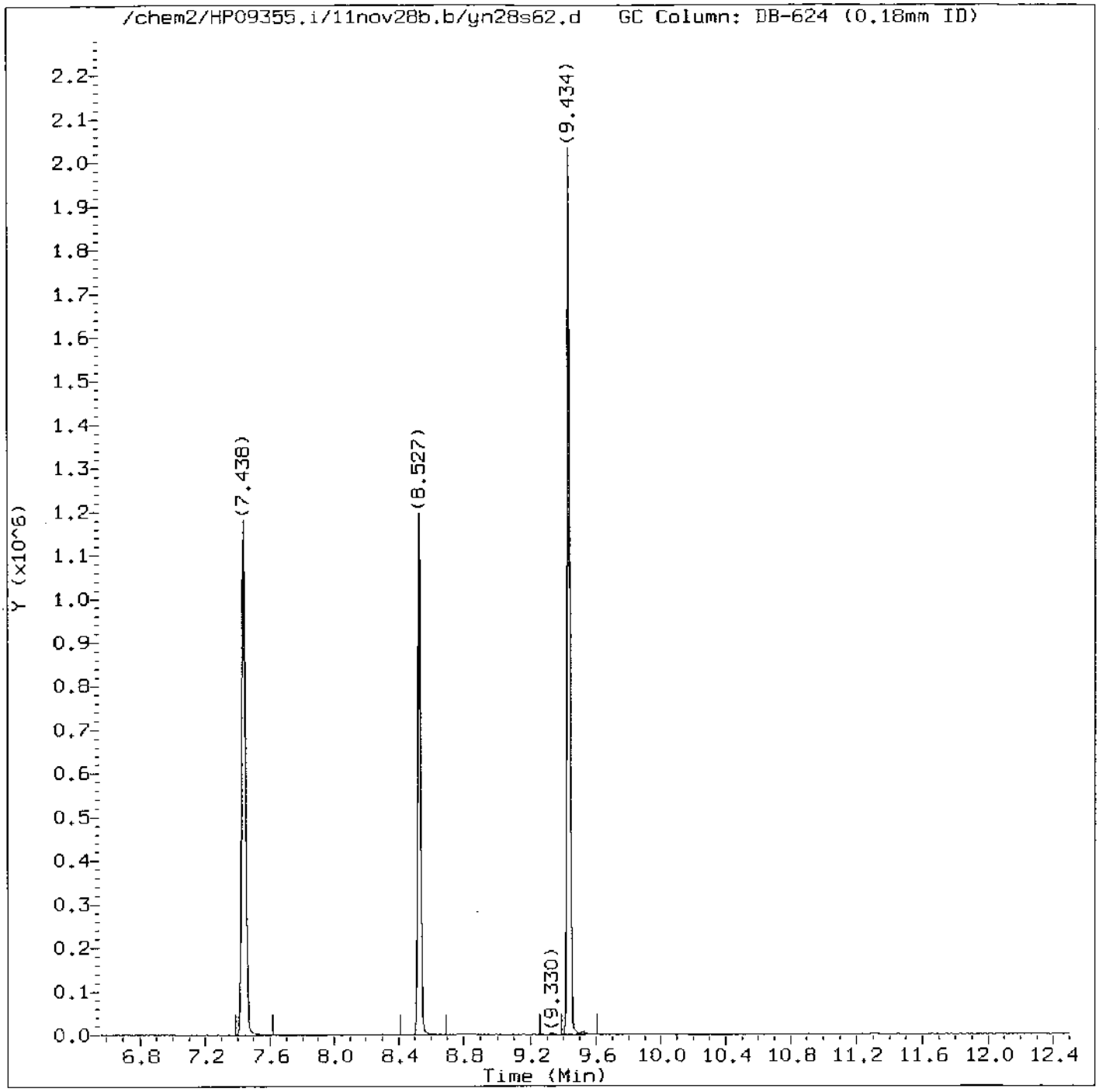
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Injection date and time: 29-NOV-2011 02:19 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 02:34 Automation

Sample Name: XXXXX Lab Sample ID: 6477571

PCH09 8101

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:31.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s62.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 02:19 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 02:34 Automation

Sample Name: XXXXX Lab Sample ID: 6477571

PCH09 0182

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:31.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s62.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 02:19 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 02:34 Automation

Sample Name: XXXXX Lab Sample ID: 6477571

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52) $Dibromofluoromethane	(1)	3.612	113	208204	49.123
62) $1,2-Dichloroethane-d4	(1)	3.922	102	52657	50.640
71) *Fluorobenzene	(1)	4.256	96	856116	50.000
93) $Toluene-d8	(2)	5.881	98	833201	48.910
106) *Chlorobenzene-d5	(2)	7.438	117	645799	50.000
119) $4-Bromofluorobenzene	(2)	8.527	95	291655	45.316
136) *1,4-Dichlorobenzene-d4	(3)	9.434	152	395307	50.000

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

PCH09 0183

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:31.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PATFB

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477572

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s63.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
1634-04-4	Methyl Tertiary Butyl Ether		5	U
71-43-2	Benzene		5	U
108-88-3	Toluene		5	U
100-41-4	Ethylbenzene		5	U
179601-23-1	m+p-Xylene		5	U
1330-20-7	Xylene (Total)		5	U
95-47-6	o-Xylene		5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477572

Data file: /chem2/HP09355.i/11nov28b.b/yn28s63.d
Data file Sample Info. Line: XXXXX;6477572;1;0;;;;;yn28b05;;
Date, time and analyst ID of latest file update: 29-Nov-2011 02:54 Automation

Injection date and time: **29-NOV-2011 02:39**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262(0.000)	564	96	834936 (-16)	50.00	
106) Chlorobenzene-d5	7.438(0.000)	1086	117	620724 (-18)	50.00	
136) 1,4-Dichlorobenzene-d4	9.433(0.006)	1414	152	381219 (-28)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.618(-0.001)	113	204094	49.375	99%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928(0.000)	102	52044	51.321	103%		77 - 113
93) Toluene-d8	(2)	5.881(0.001)	98	809813	49.457	99%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527(0.000)	95	283730	45.866	92%		78 - 113

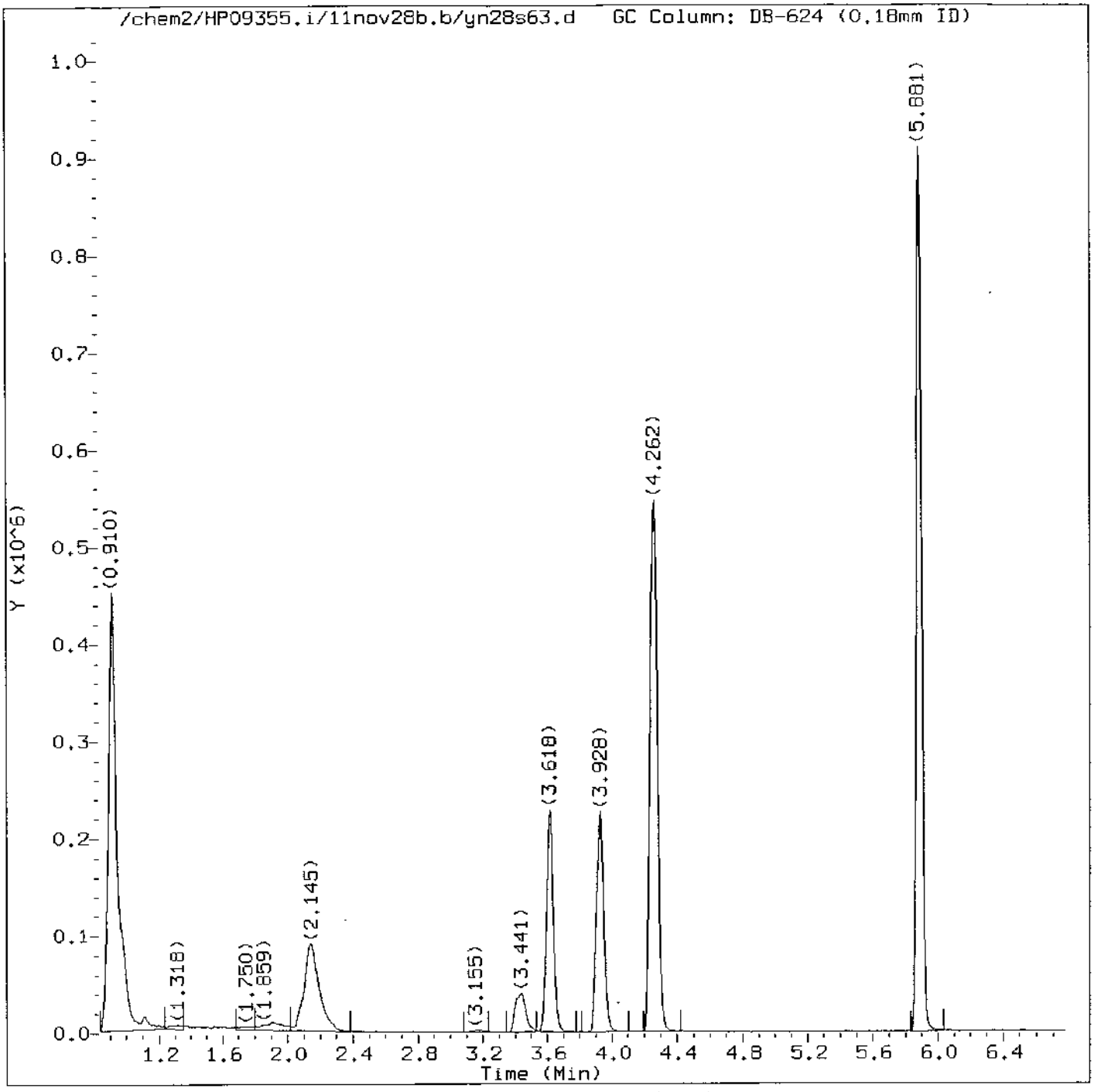
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
63) Benzene	(1)			Not Detected					0.5	5
94) Toluene	(2)			Not Detected					0.7	5
109) Ethylbenzene	(2)			Not Detected					0.8	5
110) m+p-Xylene	(2)			Not Detected					0.8	5
112) Xylene (Total)	(2)			Not Detected					0.8	5
113) o-Xylene	(2)			Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:32. Target 3.5 esignature user ID: nrr01826

PCH89 01885

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

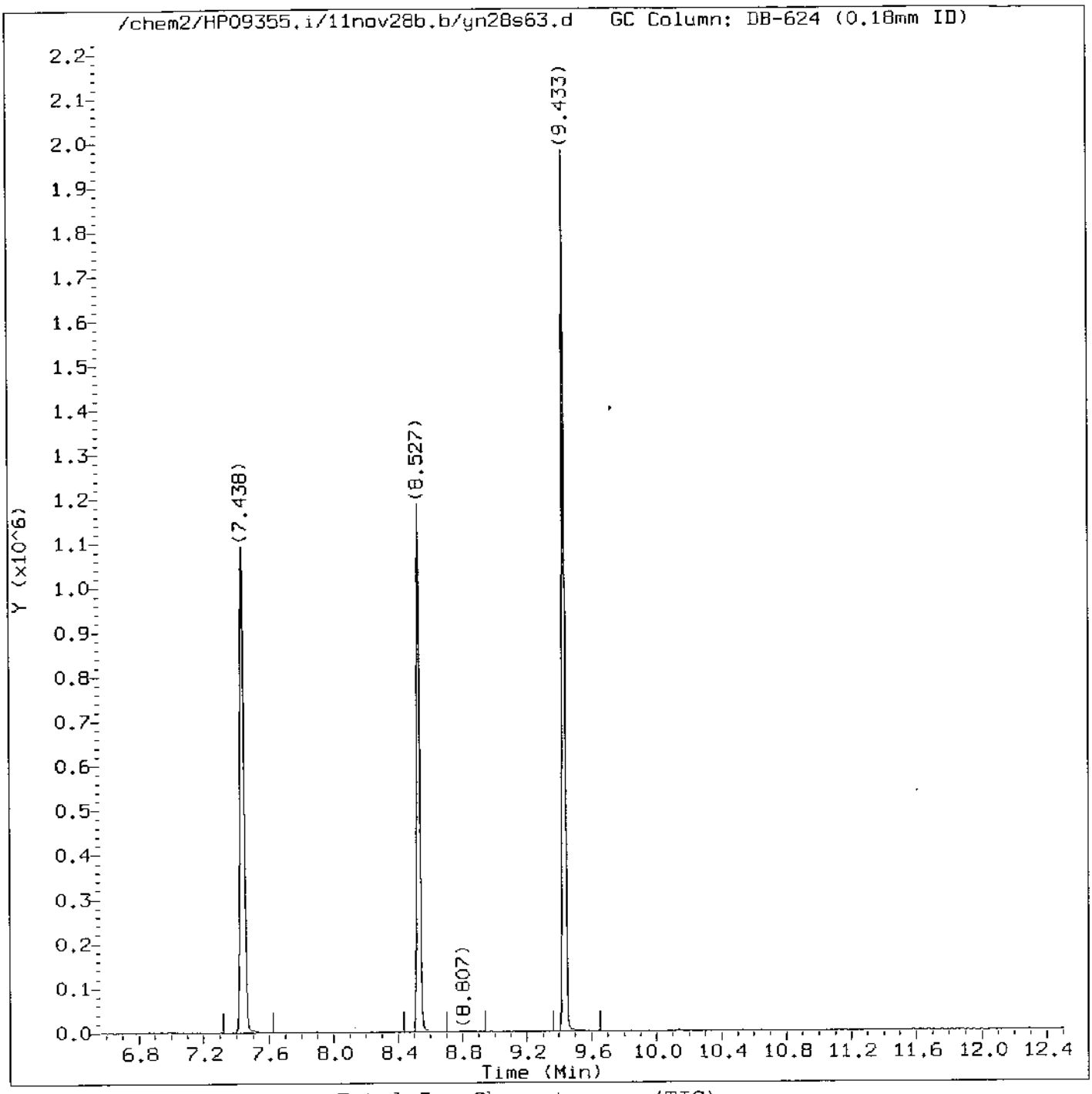
Data File: /chem2/HP09355.i/11nov28b.b/yn28s63.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 02:39 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 02:54 Automation

Sample Name: XXXXX Lab Sample ID: 6477572

PCH09 8166

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:32.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s63.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 02:39 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 02:54 Automation

Sample Name: XXXXX Lab Sample ID: 6477572

PCH09 8107

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:32.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s63.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 02:39 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 02:54 Automation

Sample Name: XXXXX Lab Sample ID: 6477572

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52)$Dibromofluoromethane	(1)	3.618	113	204094	49.375
62)$1,2-Dichloroethane-d4	(1)	3.928	102	52044	51.321
71)*Fluorobenzene	(1)	4.262	96	834936	50.000
93)$Toluene-d8	(2)	5.881	98	809813	49.457
106)*Chlorobenzene-d5	(2)	7.438	117	620724	50.000
119)$4-Bromofluorobenzene	(2)	8.527	95	283730	45.866
136)*1,4-Dichlorobenzene-d4	(3)	9.433	152	381219	50.000

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

PCH09 [illegible]

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:32.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT7S

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477573

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s64.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477573

Data file: /chem2/HP09355.i/11nov28b.b/yn28s64.d
Data file Sample Info. Line: XXXXX;6477573;1;0;;;;;yn28b05;;
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Injection date and time: **29-NOV-2011 03:00**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.256 (0.006)	563	96	814071 (-18)	50.00	
106) Chlorobenzene-d5	7.438 (0.000)	1086	117	616986 (-18)	50.00	
136) 1,4-Dichlorobenzene-d4	9.433 (0.006)	1414	152	374054 (-30)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.611 (-0.001)	113	198074	49.146	98%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.916 (0.002)	102	48136	48.684	97%		77 - 113
93) Toluene-d8	(2)	5.881 (0.001)	98	784886	48.226	96%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527 (0.000)	95	275120	44.743	89%		78 - 113

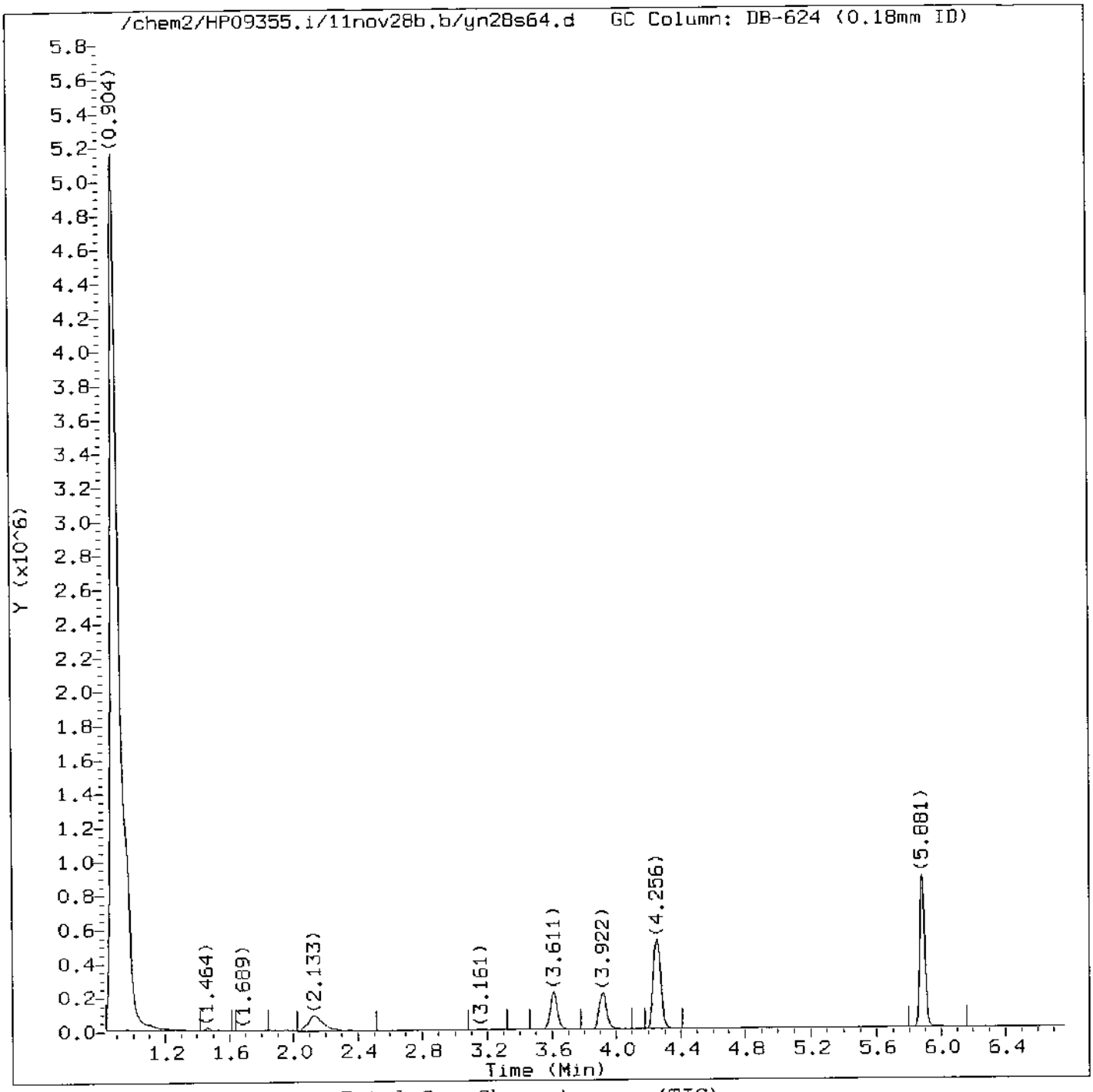
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
63) Benzene	(1)			Not Detected					0.5	5
94) Toluene	(2)			Not Detected					0.7	5
109) Ethylbenzene	(2)			Not Detected					0.8	5
110) m+p-Xylene	(2)			Not Detected					0.8	5
112) Xylene (Total)	(2)			Not Detected					0.8	5
113) o-Xylene	(2)			Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:32. Target 3.5 esignature user ID: nrr01826

PCH09 8118

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Paraliax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

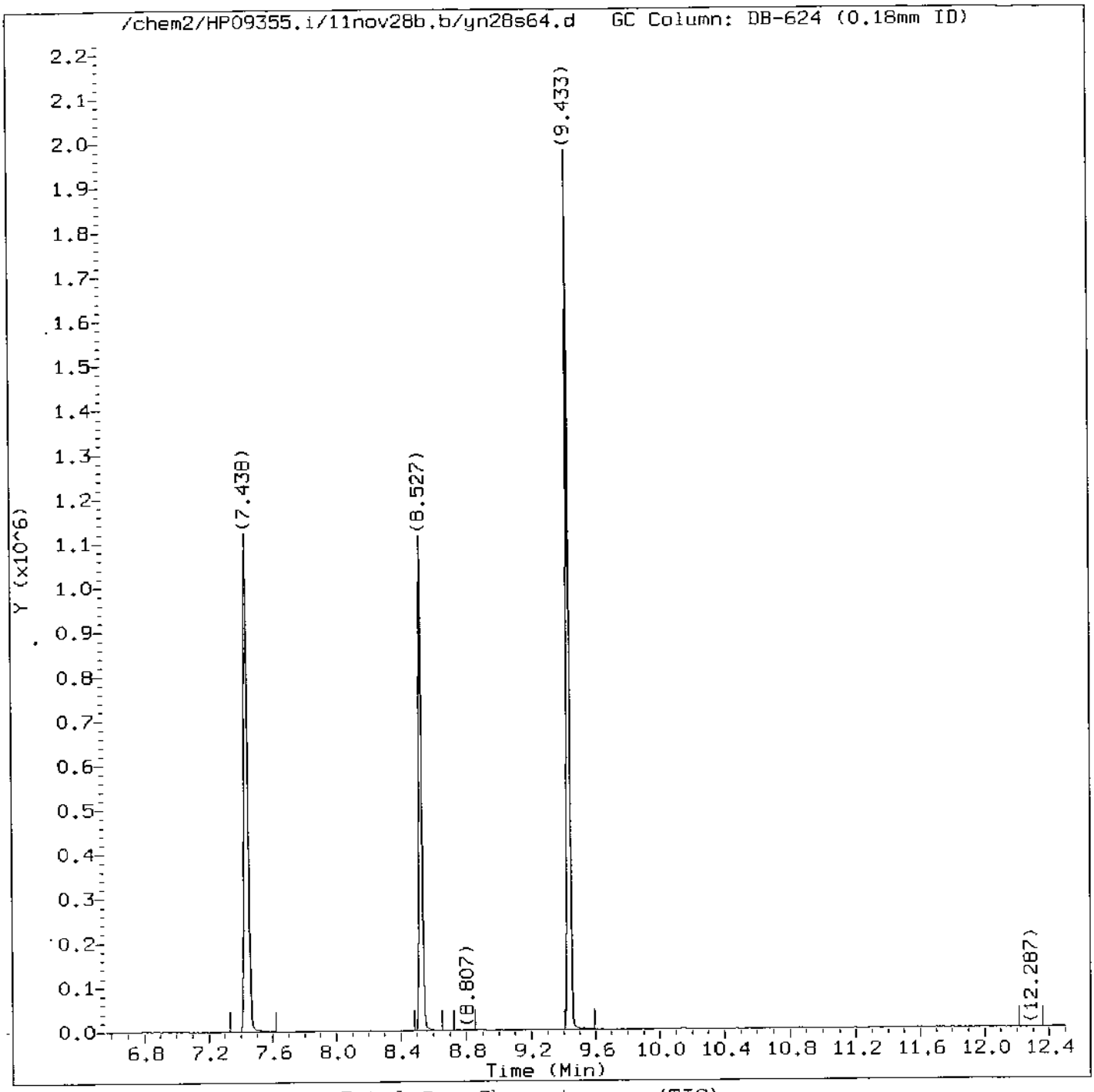
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Injection date and time: 29-NOV-2011 03:00 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477573

PCH89 [illegible]

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:32.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s64.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 03:00 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477573

PCH09 0112

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:32.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s64.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 03:00 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477573

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52)$Dibromofluoromethane	(1)	3.611	113	198074	49.146
62)$1,2-Dichloroethane-d4	(1)	3.916	102	48136	48.684
71)*Fluorobenzene	(1)	4.256	96	814071	50.000
93)$Toluene-d8	(2)	5.881	98	784886	48.226
106)*Chlorobenzene-d5	(2)	7.438	117	616986	50.000
119)$4-Bromofluorobenzene	(2)	8.527	95	275120	44.743
136)*1,4-Dichlorobenzene-d4	(3)	9.433	152	374054	50.000

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

PCH09 8113

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:32.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT7D

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477574

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s65.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
1634-04-4	Methyl Tertiary Butyl Ether		5	U
71-43-2	Benzene		5	U
108-88-3	Toluene		5	U
100-41-4	Ethylbenzene		5	U
179601-23-1	m+p-Xylene		5	U
1330-20-7	Xylene (Total)		5	U
95-47-6	o-Xylene		5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477574

Data file: /chem2/HP09355.i/11nov28b.b/yn28s65.d
Injection date and time: **29-NOV-2011 03:20**
Data file Sample Info. Line: XXXXX;6477574;1;0;;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **YI13322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262	(0.000)	564	96	838486	(-16)	50.00	
106) Chlorobenzene-d5	7.438	(0.000)	1086	117	630810	(-16)	50.00	
136) 1,4-Dichlorobenzene-d4	9.433	(0.006)	1414	152	383118	(-28)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.617	(-0.001)	113	205044	49.394	99%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928	(0.000)	102	51403	50.474	101%		77 - 113
93) Toluene-d8	(2)	5.881	(0.001)	98	815389	49.002	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527	(0.000)	95	285009	45.336	91%		78 - 113

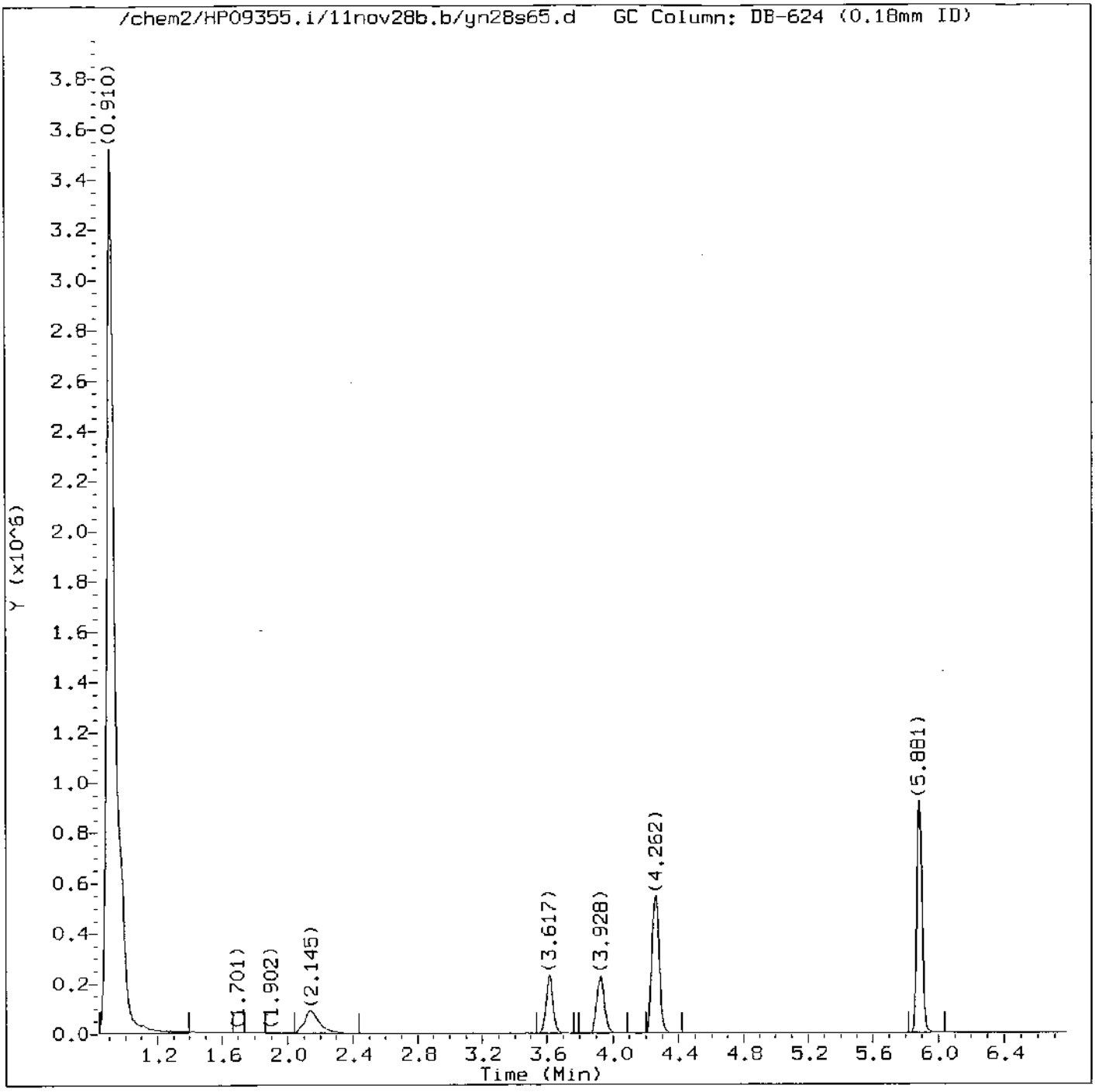
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)				Not Detected					0.5	5
63) Benzene	(1)				Not Detected					0.5	5
94) Toluene	(2)				Not Detected					0.7	5
109) Ethylbenzene	(2)				Not Detected					0.8	5
110) m+p-Xylene	(2)				Not Detected					0.8	5
112) Xylene (Total)	(2)				Not Detected					0.8	5
113) o-Xylene	(2)				Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:33. Target 3.5 esignature user ID: nrr01826

PCN69 8115

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

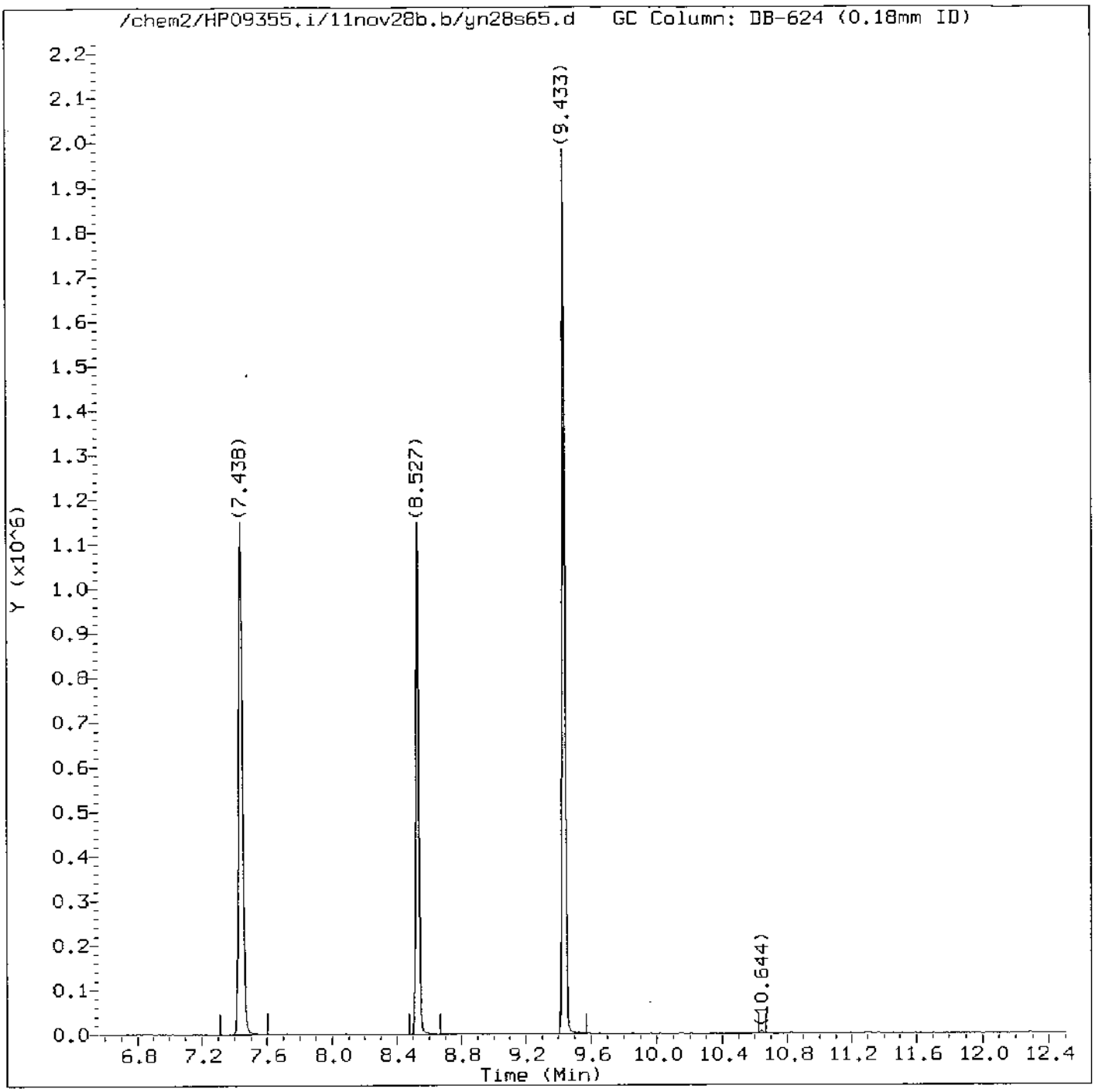
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Injection date and time: 29-NOV-2011 03:20 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477574

PCH03 8116

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:33.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s65.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 03:20 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477574

PCH09 0117

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:33.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s65.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 03:20 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:32 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477574

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52)$Dibromofluoromethane	(1)	3.617	113	205044	49.394
62)$1,2-Dichloroethane-d4	(1)	3.928	102	51403	50.474
71)*Fluorobenzene	(1)	4.262	96	838486	50.000
93)$Toluene-d8	(2)	5.881	98	815389	49.002
106)*Chlorobenzene-d5	(2)	7.438	117	630810	50.000
119)$4-Bromofluorobenzene	(2)	8.527	95	285009	45.336
136)*1,4-Dichlorobenzene-d4	(3)	9.433	152	383118	50.000

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

PCH09 0118

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:33.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT2D

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477575

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s66.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477575

Data file: /chem2/HP09355.i/11nov28b.b/yn28s66.d
Injection date and time: **29-NOV-2011 03:41**
Data file Sample Info. Line: XXXXX;6477575;1;0;;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 13:33 nrr01826

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.263(0.000)	564	96	809749 (-19)	50.00	
106) Chlorobenzene-d5	7.438(0.000)	1086	117	607066 (-19)	50.00	
136) 1,4-Dichlorobenzene-d4	9.434(0.006)	1414	152	373608 (-30)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.618(-0.001)	113	199897	49.863	100%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928(0.000)	102	49807	50.642	101%		77 - 113
93) Toluene-d8	(2)	5.881(0.001)	98	787139	49.154	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527(0.000)	95	271415	44.862	90%		78 - 113

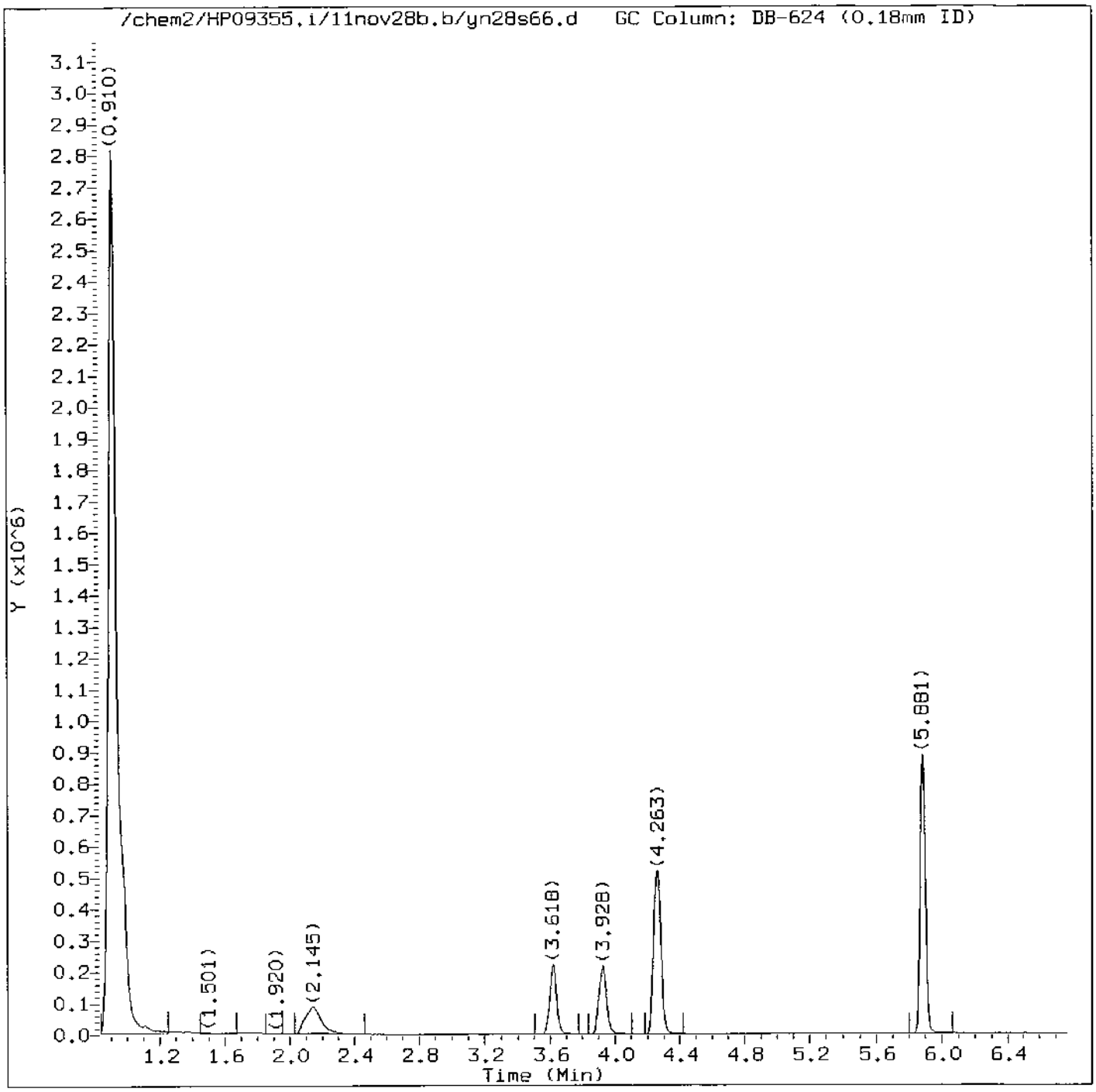
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
63) Benzene	(1)			Not Detected					0.5	5
94) Toluene	(2)			Not Detected					0.7	5
109) Ethylbenzene	(2)			Not Detected					0.8	5
110) m+p-Xylene	(2)			Not Detected					0.8	5
112) Xylene (Total)	(2)			Not Detected					0.8	5
113) o-Xylene	(2)			Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:33. Target 3.5 esignature user ID: nrr01826

FCH09 0128

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

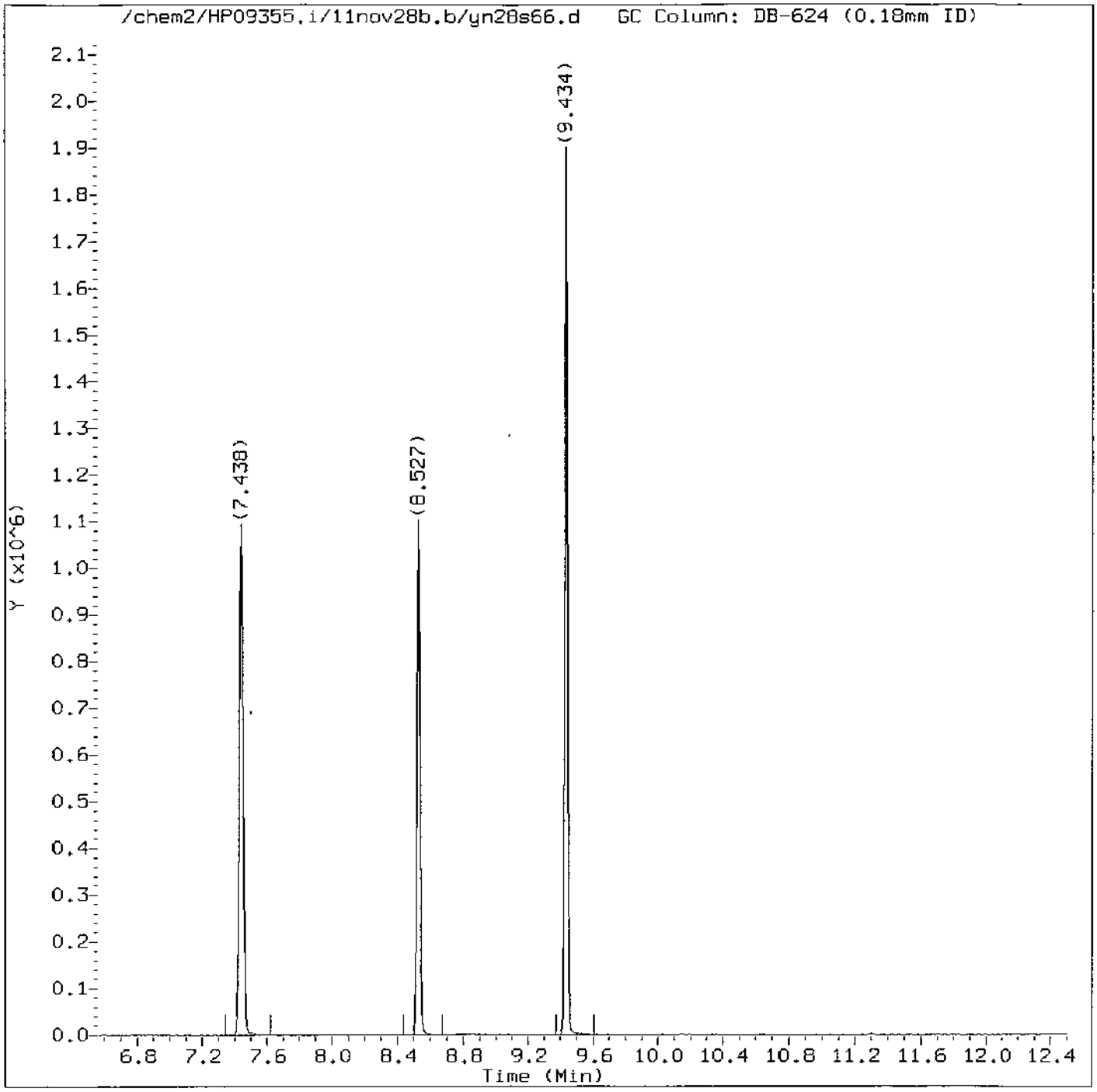
Data File: /chem2/HP09355.i/11nov28b.b/yn28s66.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 03:41 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:33 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477575

PCH09 8121

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:33.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s66.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 03:41 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:33 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477575

PCH09 0122

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:33.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s66.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 03:41 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:33 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477575

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52) $Dibromofluoromethane	(1)	3.618	113	199897	49.863
62) $1,2-Dichloroethane-d4	(1)	3.928	102	49807	50.642
71) *Fluorobenzene	(1)	4.263	96	809749	50.000
93) $Toluene-d8	(2)	5.881	98	787139	49.154
106) *Chlorobenzene-d5	(2)	7.438	117	607066	50.000
119) $4-Bromofluorobenzene	(2)	8.527	95	271415	44.862
136) *1,4-Dichlorobenzene-d4	(3)	9.434	152	373608	50.000

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

PCH05 6123

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:33.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT2S

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477576

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s67.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477576

Data file: /chem2/HP09355.i/11nov28b.b/yn28s67.d
Injection date and time: **29-NOV-2011 04:02**
Data file Sample Info. Line: XXXXX;6477576;1;0;;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 13:33 nrr01826

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262	(0.000)	564	96	804769	(-19)	50.00	
106) Chlorobenzene-d5	7.438	(0.000)	1086	117	602912	(-20)	50.00	
136) 1,4-Dichlorobenzene-d4	9.433	(0.006)	1414	152	368258	(-31)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.618	(-0.001)	113	196722	49.375	99%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928	(0.000)	102	49245	50.381	101%		77 - 113
93) Toluene-d8	(2)	5.881	(0.001)	98	783483	49.263	99%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527	(0.000)	95	271201	45.136	90%		78 - 113

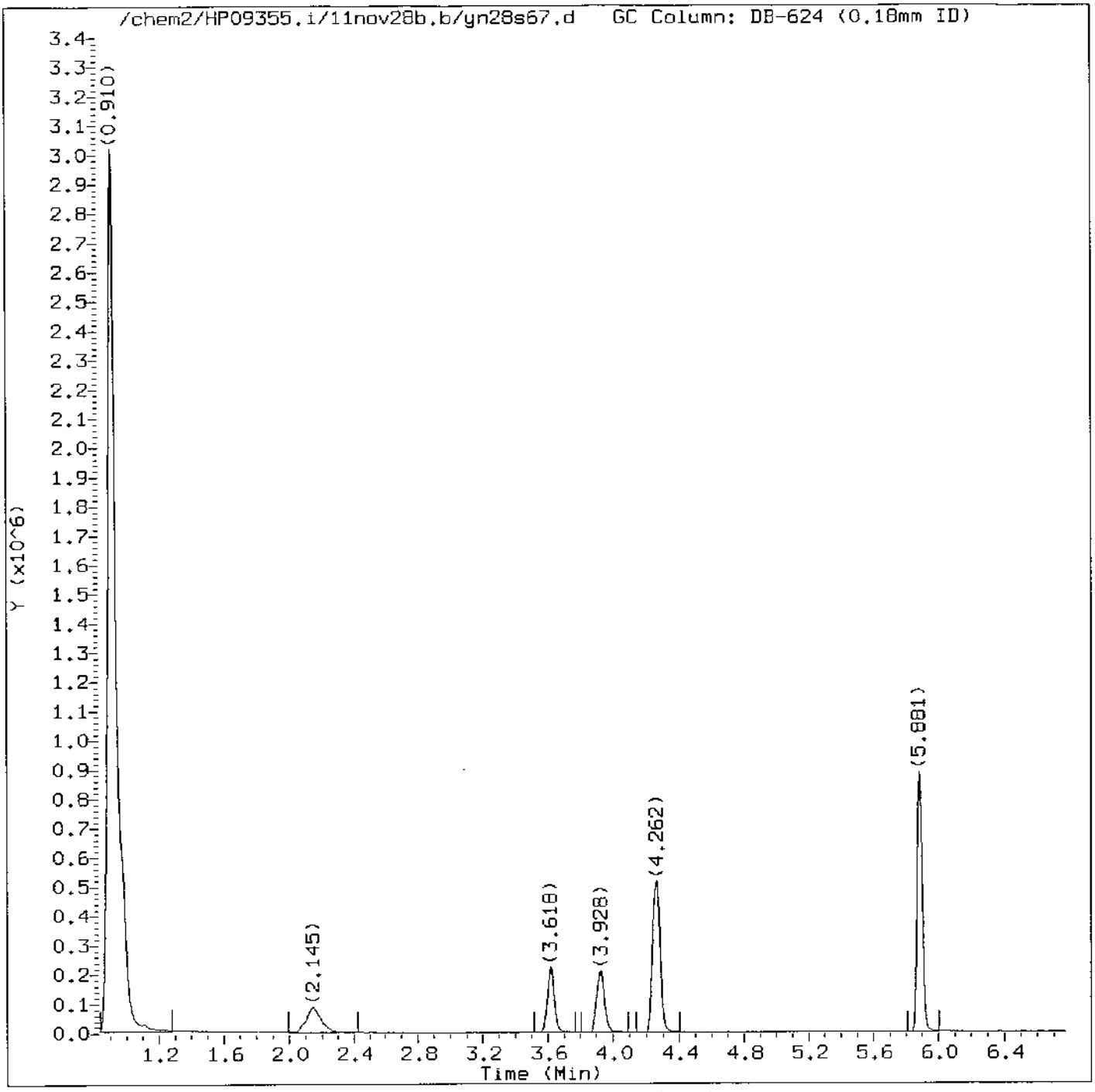
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)				Not Detected					0.5	5
63) Benzene	(1)				Not Detected					0.5	5
94) Toluene	(2)				Not Detected					0.7	5
109) Ethylbenzene	(2)				Not Detected					0.8	5
110) m+p-Xylene	(2)				Not Detected					0.8	5
112) Xylene (Total)	(2)				Not Detected					0.8	5
113) o-Xylene	(2)				Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:33. Target 3.5 esignature user ID: nrr01826

PCH09 8125

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

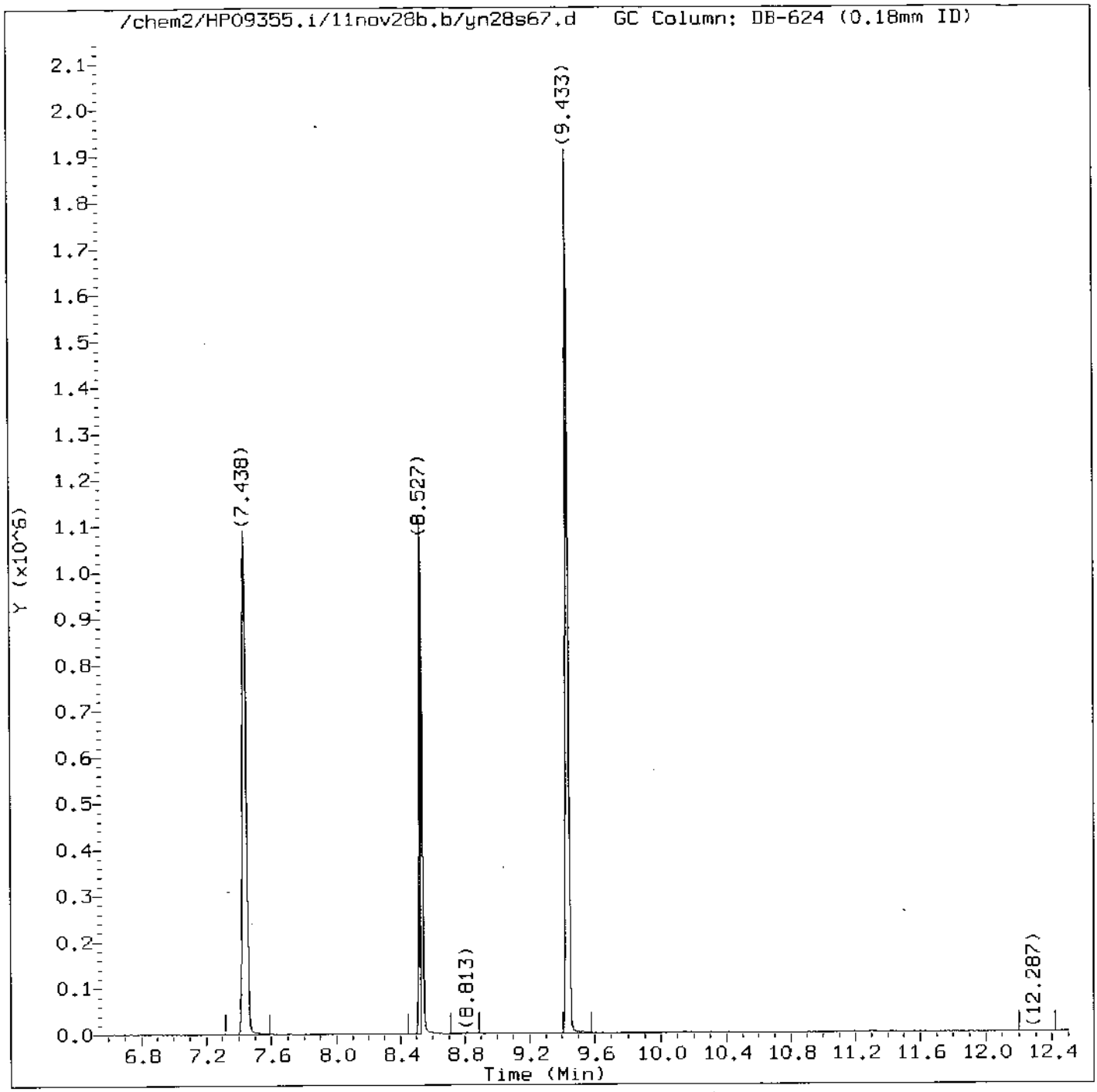
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Injection date and time: 29-NOV-2011 04:02 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:33 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477576

PCH09 8126

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:33.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s67.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 04:02 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:33 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477576

PCH89 8127

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:33.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s67.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 04:02 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:33 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477576

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52)$Dibromofluoromethane	(1)	3.618	113	196722	49.375
62)$1,2-Dichloroethane-d4	(1)	3.928	102	49245	50.381
71)*Fluorobenzene	(1)	4.262	96	804769	50.000
93)$Toluene-d8	(2)	5.881	98	783483	49.263
106)*Chlorobenzene-d5	(2)	7.438	117	602912	50.000
119)$4-Bromofluorobenzene	(2)	8.527	95	271201	45.136
136)*1,4-Dichlorobenzene-d4	(3)	9.433	152	368258	50.000

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

PCH09 8128

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:33.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PATTB

Lab Name: Lancaster Laboratories Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477577

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s68.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/29/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	5	U
71-43-2	Benzene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
179601-23-1	m+p-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
95-47-6	o-Xylene	5	U

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6477577

Data file: /chem2/HP09355.i/11nov28b.b/yn28s68.d
Injection date and time: **29-NOV-2011 04:22**
Data file Sample Info. Line: XXXXX;6477577;1;0;;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 13:34 nrr01826

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.263	(0.000)	564	96	797571	(-20)	50.00	
106) Chlorobenzene-d5	7.438	(0.000)	1086	117	599661	(-20)	50.00	
136) 1,4-Dichlorobenzene-d4	9.434	(0.006)	1414	152	364832	(-32)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.618	(-0.001)	113	194264	49.198	98%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928	(0.000)	102	48845	50.423	101%		77 - 113
93) Toluene-d8	(2)	5.887	(0.000)	98	776434	49.085	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.527	(0.000)	95	267698	44.794	90%		78 - 113

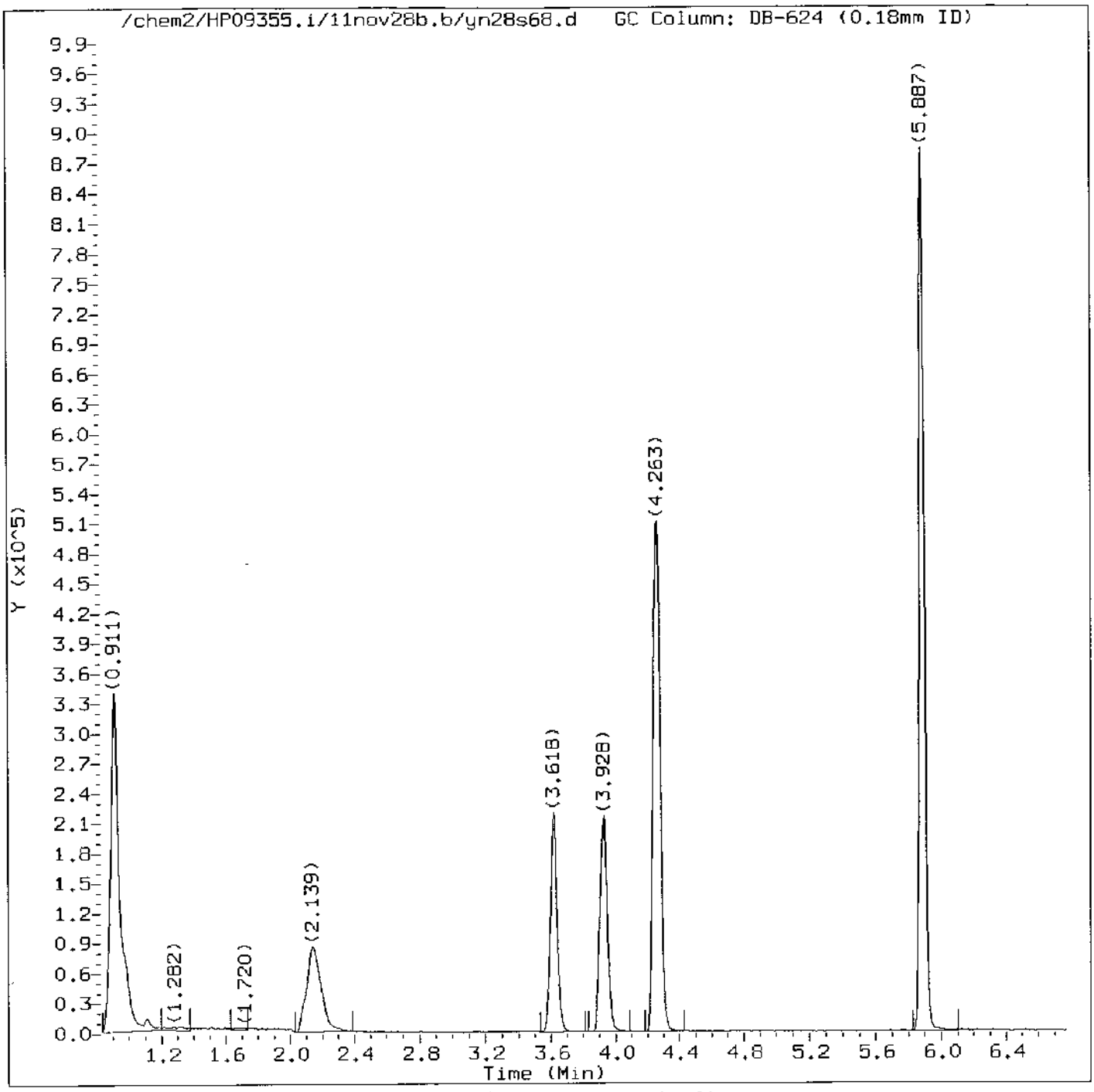
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)				Not Detected					0.5	5
63) Benzene	(1)				Not Detected					0.5	5
94) Toluene	(2)				Not Detected					0.7	5
109) Ethylbenzene	(2)				Not Detected					0.8	5
110) m+p-Xylene	(2)				Not Detected					0.8	5
112) Xylene (Total)	(2)				Not Detected					0.8	5
113) o-Xylene	(2)				Not Detected					0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:34. Target 3.5 esignature user ID: nrr01826

PCH09 8138

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

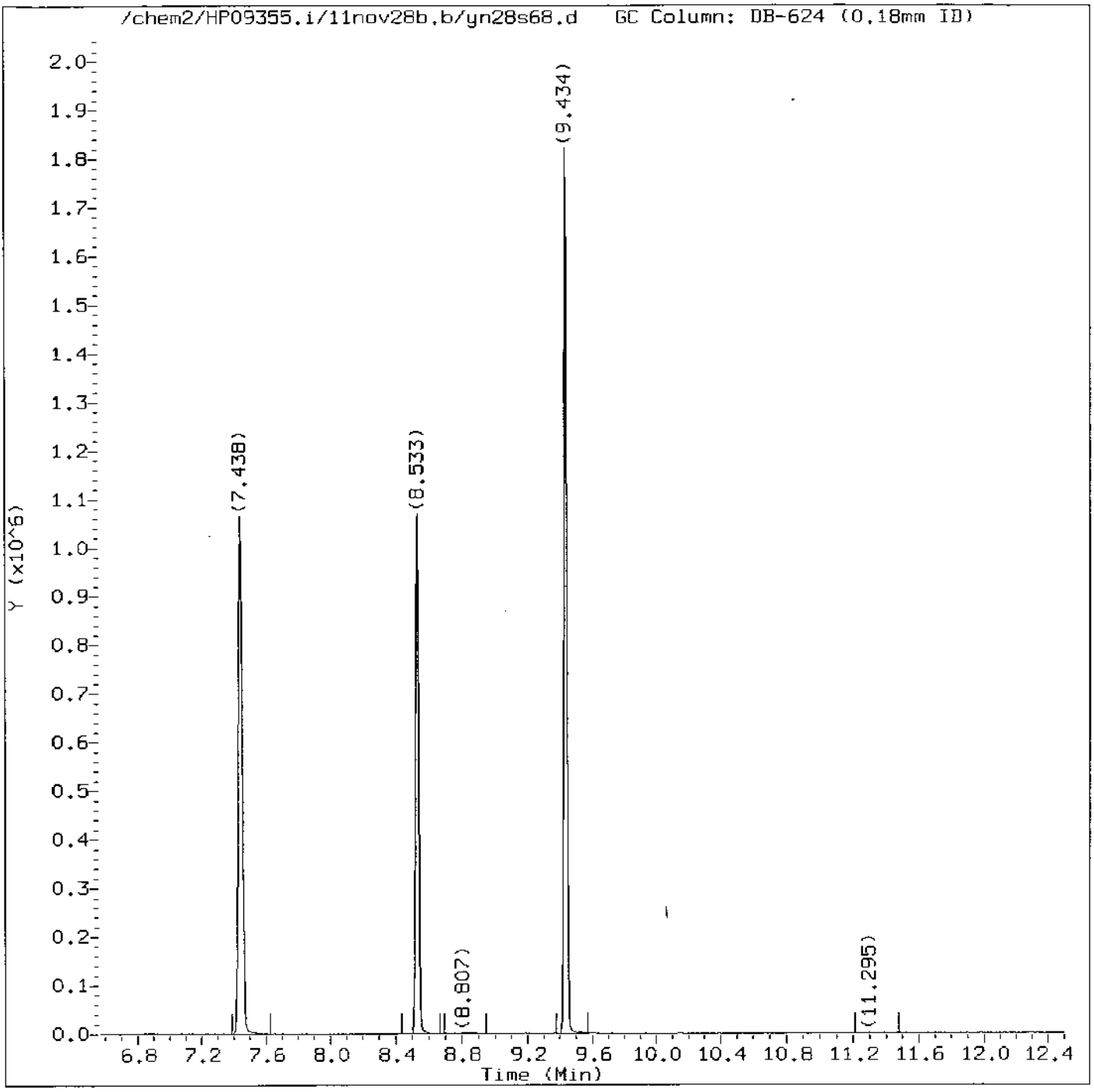
Data File: /chem2/HP09355.i/11nov28b.b/yn28s68.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 04:22 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:34 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477577

PCH89 0131

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:34.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s68.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 04:22 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:34 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477577

PCH09 0132

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:34.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s68.d Instrument ID: HP09355.i
Injection date and time: 29-NOV-2011 04:22 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:34 nrr01826

Sample Name: XXXXX Lab Sample ID: 6477577

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52)$Dibromofluoromethane	(1)	3.618	113	194264	49.198
62)$1,2-Dichloroethane-d4	(1)	3.928	102	48845	50.423
71)*Fluorobenzene	(1)	4.263	96	797571	50.000
93)$Toluene-d8	(2)	5.887	98	776434	49.085
106)*Chlorobenzene-d5	(2)	7.438	117	599661	50.000
119)$4-Bromofluorobenzene	(2)	8.527	95	267698	44.794
136)*1,4-Dichlorobenzene-d4	(3)	9.434	152	364832	50.000

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

PCH09 0133

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:34.
Target 3.5 esignature user ID: nrr01826

Standards Data

PCH89 5134

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09355 **HP #20**

** Shift #1 Analyst: NRR ** Shift #2 Analyst: FAV ** 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:

_____

_____

_____

*_____*DOUBLE SPIKED CYC - OK AS PER RVN_____*

Data Directory Path is - C:\MSDCHEM\1\11NOV14A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
YN14T01.D	BFB SEP28-11	50NG BFB	14 Nov 2011	09:24			MR
YN14I01.D	VSTD300	VSTD300	14 Nov 2011	09:41			MR
YN14I02.D	VSTD100	VSTD100	14 Nov 2011	10:02			MR
YN14I03.D	VSTD050	VSTD050	14 Nov 2011	10:42			MR
YN14IA4.D	VSTD020	VSTD020	14 Nov 2011	11:03			NU
YN14I04.D	VSTD020	VSTD020	14 Nov 2011	11:23			MR
YN14I05.D	VSTD010	VSTD010	14 Nov 2011	11:44			MR
YN14I06.D	VSTD004	VSTD004	14 Nov 2011	12:04			MR
YN14M01.D	MDL001	MDL001	14 Nov 2011	12:25			MR
YN14V01.D	YSMICV	YSMICV	14 Nov 2011	13:02			NU
YN14V02.D	YSMICV	YSMICV	14 Nov 2011	14:02			MR
YN14I07.D	VSTD300	VSTD300	14 Nov 2011	14:23			NU
YN14I08.D	VSTD300	VSTD300	14 Nov 2011	14:48			MR
YN14I09.D	VSTD100	VSTD100	14 Nov 2011	15:08			MR
YN14I10.D	VSTD050	VSTD050	14 Nov 2011	15:29			MR
YN14I11.D	VSTD020	VSTD020	14 Nov 2011	15:49			MR
YN14I12.D	VSTD010	VSTD010	14 Nov 2011	16:10			MR*
YN14I13.D	VSTD004	VSTD004	14 Nov 2011	16:31			MR
YN14M02.D	MDL001	MDL001	14 Nov 2011	16:52			MR
YN14V03.D	YLGICV	YLGICV	14 Nov 2011	17:13			MR

Lancaster Laboratories
Runlog for Newelet Packard GC/MS System HP09355 **HP #20**

** Shift #1 Analyst: NRR ** Shift #2 Analyst: FAV ** 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:

8260B WATERS

Data Directory Path is - C:\msdchem\1\11NOV28B\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
YN28T05.D	50NG BFB AUG-02		28 Nov 2011	20:41			MR
YN28C05.D	VSTD050	VSTD050	28 Nov 2011	20:57			MR
YN28B05.D	VBLKY09	VBLKY09	28 Nov 2011	21:17	Y113322AA		MR
YN28L05.D	LCSY09	LCSY09	28 Nov 2011	21:38	Y113322AA		MR
YN28S50.D	XXXXX	6482077	28 Nov 2011	22:10	Y113322AA		MR
YN28S51.D	XXXXX	6482078	28 Nov 2011	22:31	Y113322AA		MR
YN28S52.D	XXXXX	6477561	28 Nov 2011	22:52	Y113322AA		MR
YN28S53.D	XXXXXMS	6477562MS	28 Nov 2011	23:13	Y113322AA		MR
YN28S54.D	XXXXXMSD	6477563MSD	28 Nov 2011	23:33	Y113322AA		MR
YN28S55.D	XXXXX	6477564	28 Nov 2011	23:54	Y113322AA		MR
YN28S56.D	XXXXX	6477565	29 Nov 2011	00:15	Y113322AA		MR
YN28S57.D	XXXXX	6477566	29 Nov 2011	00:36	Y113322AA		MR
YN28S58.D	XXXXX	6477567	29 Nov 2011	00:56	Y113322AA		MR
YN28S59.D	XXXXX	6477568	29 Nov 2011	01:17	Y113322AA		MR
YN28S60.D	XXXXX	6477569	29 Nov 2011	01:37	Y113322AA		MR
YN28S61.D	XXXXX	6477570	29 Nov 2011	01:58	Y113322AA		MR
YN28S62.D	XXXXX	6477571	29 Nov 2011	02:19	Y113322AA		MR
YN28S63.D	XXXXX	6477572	29 Nov 2011	02:39	Y113322AA		MR
YN28S64.D	XXXXX	6477573	29 Nov 2011	03:00	Y113322AA		MR
YN28S65.D	XXXXX	6477574	29 Nov 2011	03:20	Y113322AA		MR
YN28S66.D	XXXXX	6477575	29 Nov 2011	03:41	Y113322AA		MR
YN28S67.D	XXXXX	6477576	29 Nov 2011	04:02	Y113322AA		MR
YN28S68.D	XXXXX	6477577	29 Nov 2011	04:22	Y113322AA		MR
YN28S69.D	XXXXX	6477041	29 Nov 2011	04:43	Y113322AA		MR
YN28S70.D	XXXXX	6477044	29 Nov 2011	05:04	Y113322AA		MR
YN28S71.D	XXXXX	6477045	29 Nov 2011	05:24	Y113322AA		MR
YN28S72.D	XXXXX	6477075	29 Nov 2011	05:45	Y113322AA		MR

Data File: /chem2/HP09355.i/11nov14a.b/yn14t01.d

Page 1

Date : 14-NOV-2011 09:24

Client ID: BFB SEP28-11

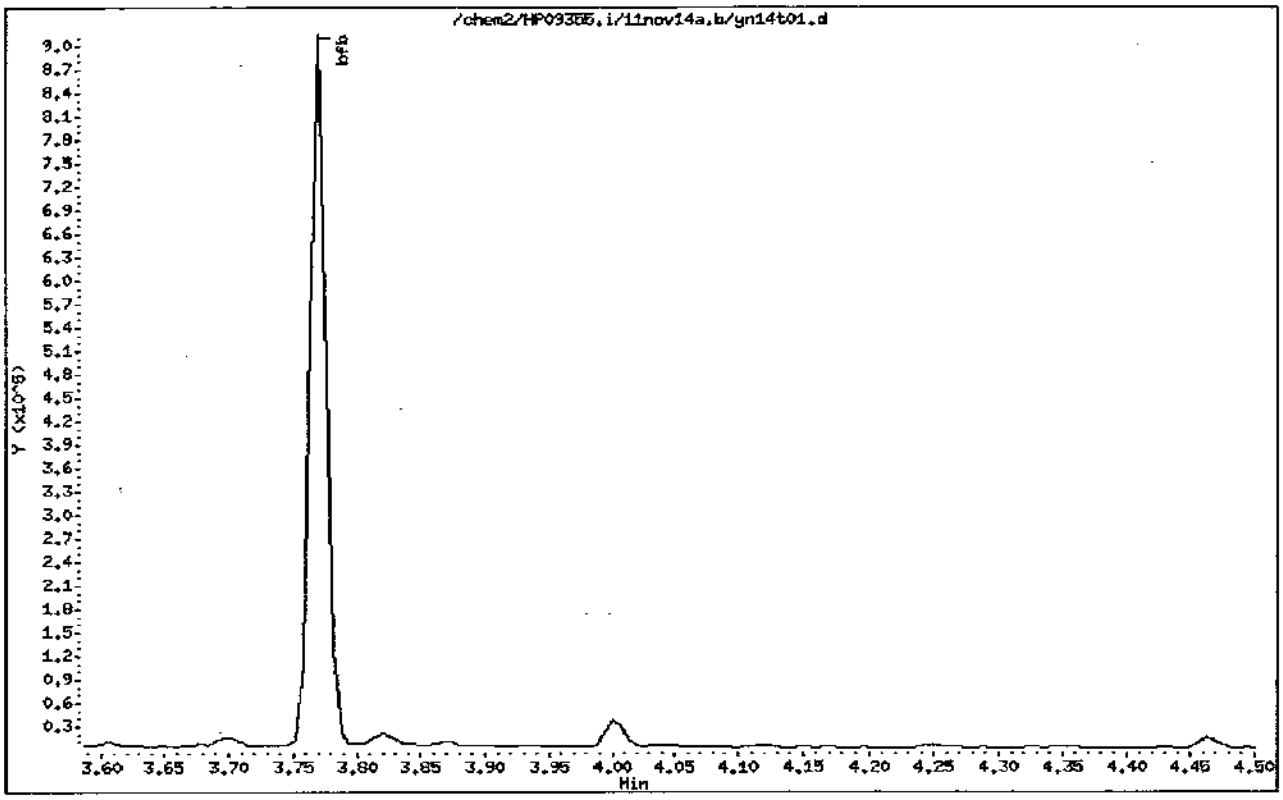
Instrument: HP09355.i

Sample Info: BFB SEP28-11;50NG BFB;1;2;;;;;;;;

Operator: NRR01826

Column phase: DB-624

Column diameter: 0.18



Digitally signed by Nicholas R. Rossi on 11/14/2011 at 14:45
Target 3.5 esignature user ID: nrr01826

PCH09 0137

Data File: /chem2/HP09355.i/11nov14a.b/yn14t01.d

Date : 14-NOV-2011 09:24

Client ID: BFB SEP28-11

Instrument: HP09355.i

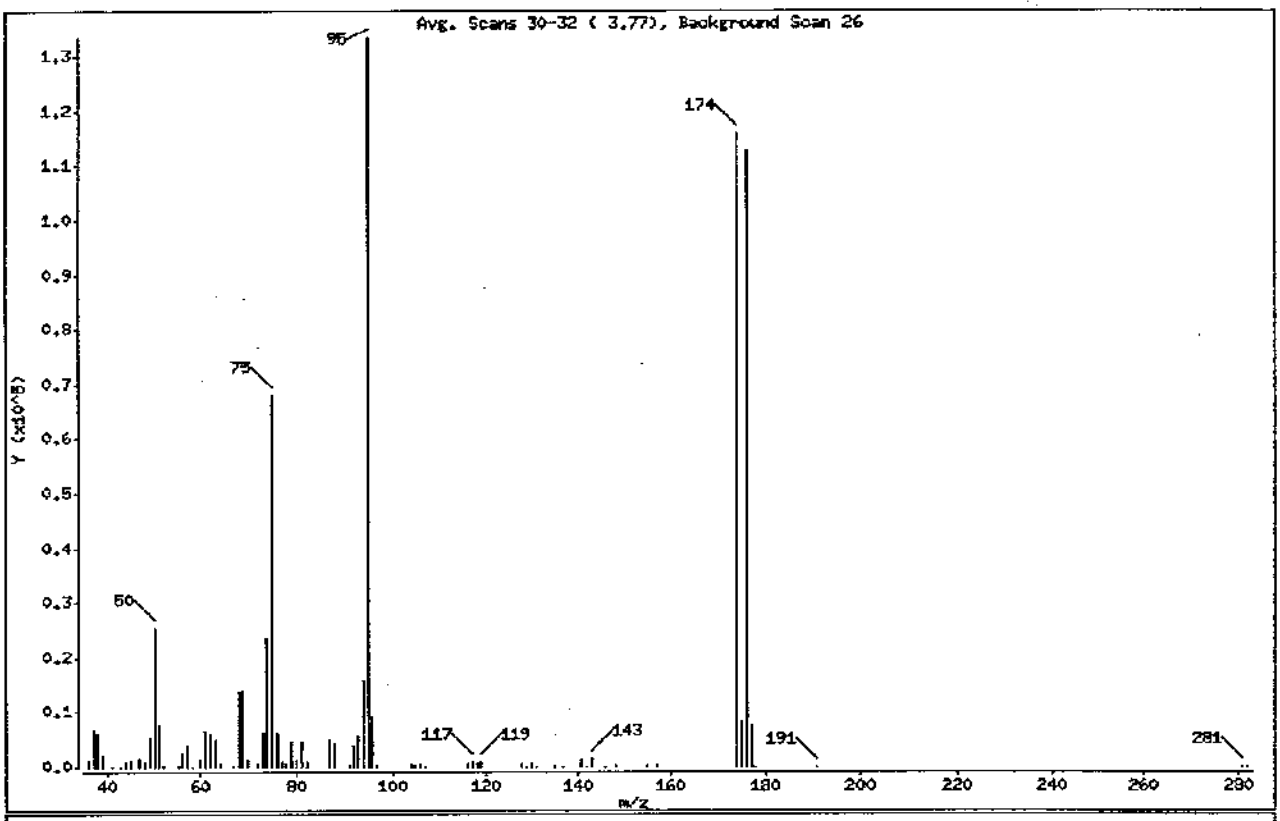
Sample Info: BFB SEP28-11;50NG BFB;1;2;;;;;;;;

Operator: NRR01826

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	19.09
75	30.00 - 60.00% of mass 95	51.00
96	5.00 - 9.00% of mass 95	6.96
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	86.92
175	5.00 - 9.00% of mass 174	6.18 (7.11)
176	95.00 - 101.00% of mass 174	84.65 (97.38)
177	5.00 - 9.00% of mass 176	5.64 (6.66)

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Target 3.5 esignature user ID: nrr01826

PCH85 8138

Data File: /chem2/HP09355.i/11nov14a.b/yn14t01.d

Date : 14-NOV-2011 09:24

Client ID: BFB SEP28-11

Instrument: HP09355.i

Sample Info: BFB SEP28-11;50NG BFB;1;2;;;;;;;;

Operator: NRR01826

Column phase: DB-624

Column diameter: 0.18

Data File: yn14t01.d

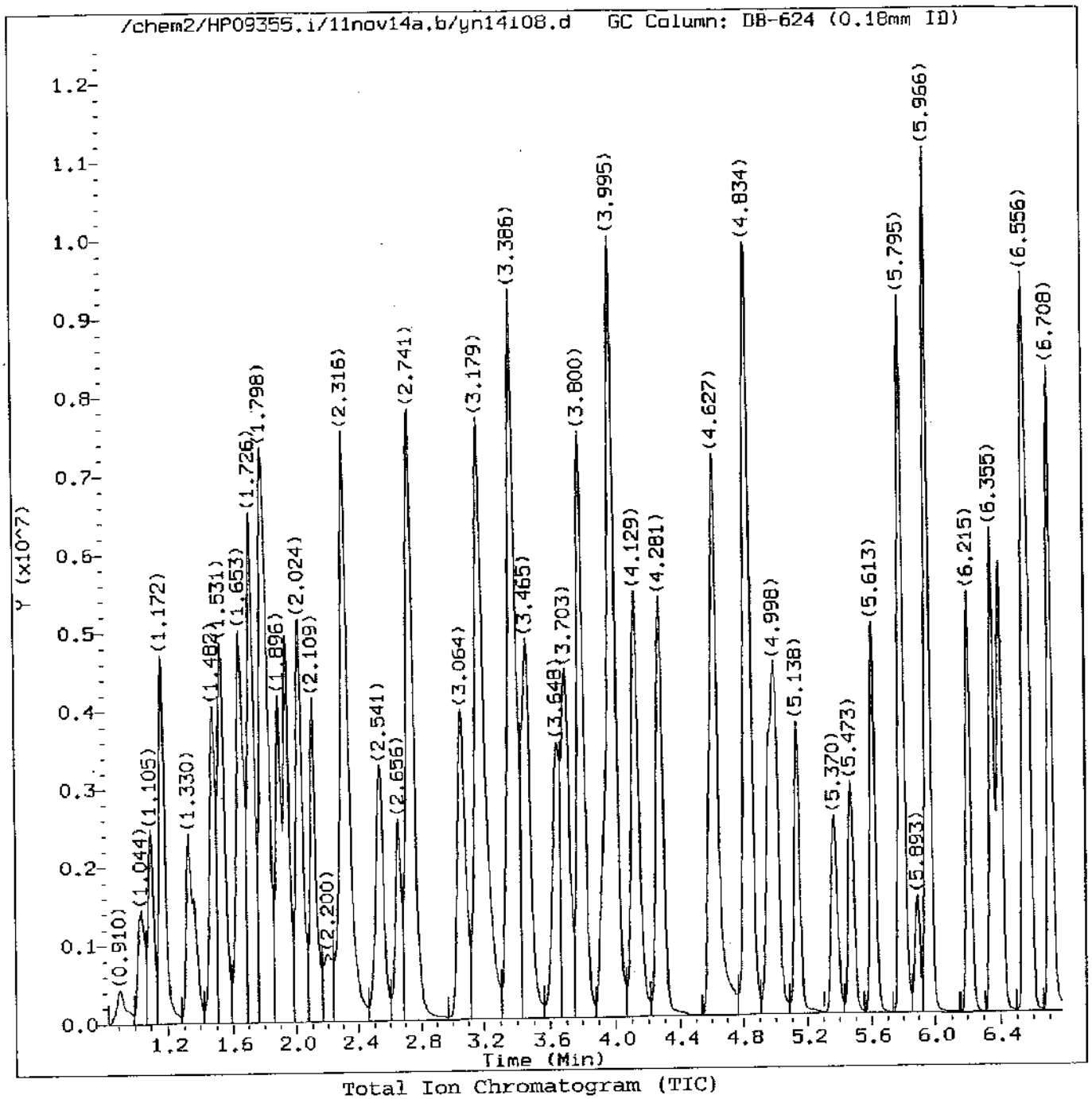
Spectrum: Avg, Scans 30-32 (3.77), Background Scan 26

Location of Maximum: 95.00

Number of points: 76

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36.00	1328	62.00	6185	91.00	414	137.00	125
37.00	6724	63.00	3011	92.00	4090	141.00	1440
38.00	6287	64.00	534	93.00	5860	142.00	90
39.00	2088	67.00	441	94.00	15863	143.00	1561
41.00	19	68.00	13868	95.00	133440	146.00	113
43.00	63	69.00	14002	96.00	9292	148.00	331
44.00	925	70.00	1223	97.00	243	155.00	263
45.00	1311	72.00	745	104.00	737	157.00	221
47.00	1476	73.00	6061	105.00	302	174.00	116008
48.00	848	74.00	23488	106.00	649	175.00	8249
49.00	5657	75.00	68064	107.00	100	176.00	112968
50.00	25472	76.00	6017	116.00	542	177.00	7524
51.00	7787	77.00	790	117.00	1004	178.00	91
52.00	401	78.00	539	118.00	550	191.00	95
55.00	248	79.00	4686	119.00	819	281.00	89
56.00	2418	80.00	1297	128.00	607	282.00	9
57.00	4083	81.00	4656	129.00	109		
58.00	93	82.00	994	130.00	563		
60.00	1164	87.00	4938	131.00	87		
61.00	6401	88.00	4421	136.00	171		

Digitally signed by Nicholas R. Rossi on 11/14/2011 at 14:45
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d
Injection date and time: 14-NOV-2011 14:48

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:10

Sublist used: 8260WI

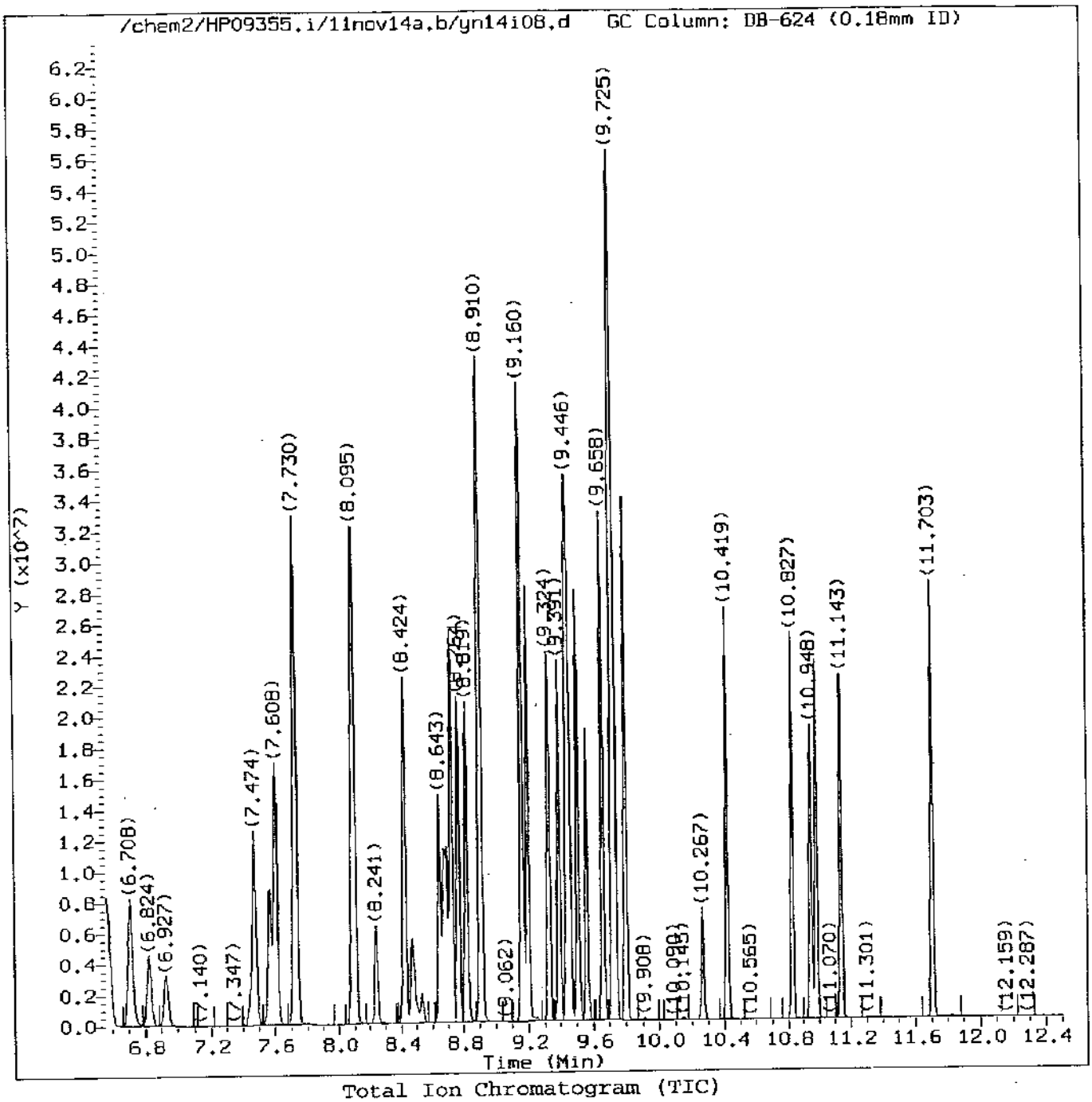
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300

Lab Sample ID: VSTD300

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

PCN89 P148



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d
Injection date and time: 14-NOV-2011 14:48

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:10

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300

Lab Sample ID: VSTD300

Digitally signed by Frank A. Valia Jr.
on 11/14/2011 at 20:29
Target 3.5 esignature user ID: fav02618

PCHa9 8141

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.044	85	3285209	253.790
3) Chloromethane	(1)	1.105	50	3056299	256.737
4) 1,3-Butadiene	(1)	1.166	39	1439694M	243.905
5) Vinyl Chloride	(1)	1.178	62	3136476	262.909
7) Bromomethane	(1)	1.330	94	2025675	224.753
8) Chloroethane	(1)	1.367	64	1470278	216.408
9) Dichlorofluoromethane	(1)	1.482	67	4288906	245.810
11) n-Pentane	(1)	1.531	43	2826993M	245.145
10) Trichlorofluoromethane	(1)	1.543	101	4210931	198.915
13) Ethyl Ether	(1)	1.646	59	1963040	271.802
14) Freon 123a	(1)	1.659	67	2774180	257.380
15) Acrolein	(4)	1.726	56	9177531	2788.819
16) 1,1-Dichloroethene	(1)	1.792	96	2478396	293.096
18) Freon 113	(1)	1.817	101	2592559	292.107
17) Acetone	(1)	1.817	58	1021742	533.267
20) Methyl Iodide	(1)	1.896	142	5191119	301.475
21) 2-Propanol	(4)	1.908	45	1526163M	1115.867
22) Carbon Disulfide	(1)	1.945	76	7300132	296.876
24) Allyl Chloride	(1)	2.024	41	3266877M	273.986
25) Methyl Acetate	(1)	2.030	43	3212841	279.791
26) Methylene Chloride	(1)	2.109	84	2266684	313.768
28)*t-Butyl Alcohol-d10	(4)	2.133	65	410737	250.000
29) t-Butyl Alcohol	(4)	2.200	59	2335835M	1237.529
30) Acrylonitrile	(1)	2.285	53	1463608M	279.654
31) trans-1,2-Dichloroethene	(1)	2.316	96	2118658	305.362
32) Methyl Tertiary Butyl Ether	(1)	2.328	73	6649839	295.295
33) n-Hexane	(1)	2.541	57	2717999	283.994
34) 1,1-Dichloroethane	(1)	2.656	63	3522339	289.711
36) di-Isopropyl Ether	(1)	2.735	45	6420986	293.437
37) 2-Chloro-1,3-Butadiene	(1)	2.741	53	3307982	304.742
39) Ethyl t-Butyl Ether	(1)	3.064	59	6274476	290.388
40) cis-1,2-Dichloroethene	(1)	3.173	96	2355565	311.366
42) 2,2-Dichloropropane	(1)	3.186	77	3203689	315.428
41) 2-Butanone	(1)	3.186	43	4279284	598.069
43) Propionitrile	(4)	3.234	54	3037916	1531.771
46) Methacrylonitrile	(1)	3.380	67	3799901	784.410
47) Bromochloromethane	(1)	3.392	128	1293982	317.902
48) Tetrahydrofuran	(4)	3.435	71	1212712	647.715

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

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29:
Target 3.5 esignature user ID: fav02618

PCH89 8142

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Chloroform	(1)	3.471	83	3679242	302.537
51)$Dibromofluoromethane(mz111)	(1)	3.618	111	301388	48.864
52)$Dibromofluoromethane	(1)	3.618	113	297659	49.159
45) 1,2-Dichloroethene (total)	(1)		96	4474223	616.728
53) 1,1,1-Trichloroethane	(1)	3.648	97	3470649	281.391
55) Cyclohexane (mz 69)	(1)	3.703	69	1052715	293.486
54) Cyclohexane (mz 84)	(1)	3.703	84	2929674	290.680
56) Cyclohexane	(1)	3.703	56	3343083	288.894
57) 1,1-Dichloropropene	(1)	3.794	75	2911316	304.812
58) Carbon Tetrachloride	(1)	3.800	117	3113519	322.389
61)$1,2-Dichloroethane-d4(mz65)	(1)	3.928	65	381926	48.189
60)$1,2-Dichloroethane-d4(mz104)	(1)	3.928	104	45861	48.754
62)$1,2-Dichloroethane-d4	(1)	3.934	102	71689	48.260
59) Isobutyl Alcohol	(4)	3.946	41	2293726	3759.371
63) Benzene	(1)	3.989	78	8671351	312.504
64) 1,2-Dichloroethane (mz 98)	(1)	4.007	98	292639	327.577
65) 1,2-Dichloroethane	(1)	4.007	62	3385223	308.298
69) t-Amyl Methyl Ether	(1)	4.129	73	6230271	293.406
71)*Fluorobenzene	(1)	4.262	96	1223039	50.000
72) n-Heptane	(1)	4.281	43	3083722	283.849
73) n-Butanol	(4)	4.591	56	3973431	8009.499
74) Trichloroethene	(1)	4.627	95	2384628	318.513
75) Methylcyclohexane (mz98)	(1)	4.828	98	1759543	305.656
76) Methylcyclohexane	(1)	4.828	83	3780607	305.243
77) 1,2-Dichloropropane	(1)	4.846	63	2291726	316.541
78) Dibromomethane	(1)	4.962	93	1580041	312.364
79) 1,4-Dioxane	(4)	4.986	88	626369	3877.852
80) Methyl Methacrylate	(1)	5.005	69	2346895	316.696
83) Bromodichloromethane	(1)	5.138	83	2897139	331.435
85) 2-Nitropropane	(1)	5.370	41	2400462	751.068
86) 2-Chloroethyl Vinyl Ether	(1)	5.473	63	1749752	310.760
87) cis-1,3-Dichloropropene	(1)	5.613	75	3519309	329.873
89) 4-Methyl-2-Pentanone	(1)	5.795	43	8248155	603.444
93)$Toluene-d8	(2)	5.893	98	1187762	49.243
92)$Toluene-d8(mz100)	(2)	5.893	100	813598	51.833
94) Toluene	(2)	5.966	92	5795621	321.741
95) trans-1,3-Dichloropropene	(2)	6.215	75	3505753	348.395
96) Ethyl Methacrylate	(2)	6.355	69	3705217	329.722

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

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29:
Target 3.5 esignature user ID: fav02618

PCH89 8143

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
97) 1,1,2-Trichloroethane	(2)	6.404	97	2196862	317.684
98) Tetrachloroethene	(2)	6.556	166	2962116	332.764
99) 1,3-Dichloropropane	(2)	6.580	76	3716802	319.835
101) 2-Hexanone	(2)	6.708	43	6532383	618.360
102) Dibromochloromethane	(2)	6.824	129	2626974	367.676
104) 1,2-Dibromoethane	(2)	6.927	107	2452764	323.756
106)*Chlorobenzene-d5	(2)	7.444	117	914394	50.000
107) Chlorobenzene	(2)	7.474	112	6792804	322.498
108) 1,1,1,2-Tetrachloroethane	(2)	7.572	131	2507929	352.137
109) Ethylbenzene	(2)	7.608	91	11080502	313.447
110) m+p-Xylene	(2)	7.730	106	10314576	692.360
113) o-Xylene	(2)	8.089	106	5388764	362.325
114) Styrene	(2)	8.101	104	8824600	363.831
112) Xylene (Total)	(2)		106	15703340	1054.686
115) Bromoform	(2)	8.241	173	2345064	418.928
116) Isopropylbenzene	(2)	8.424	105	11204033	301.132
118) Cyclohexanone	(4)	8.472	55	2324993	3509.926
120)$4-Bromofluorobenzene(mz174)	(2)	8.533	174	420724	49.805
119)$4-Bromofluorobenzene	(2)	8.533	95	453160	49.728
121) Bromobenzene	(3)	8.643	156	3554278	278.516
122) 1,1,2,2-Tetrachloroethane	(3)	8.673	83	4052878	268.651
123) 1,2,3-Trichloropropane	(3)	8.691	110	1387957	270.675
124) trans-1,4-Dichloro-2-Butene	(3)	8.722	53	3710883	678.106
125) n-Propylbenzene	(3)	8.764	91	11406558	213.022
126) 2-Chlorotoluene	(3)	8.819	126	3298068	278.507
128) 4-Chlorotoluene	(3)	8.904	126	3867518	299.677
127) 1,3,5-Trimethylbenzene	(3)	8.910	105	10590039	252.221
130) tert-Butylbenzene	(3)	9.160	134	3064292	300.885
131) Pentachloroethane	(3)	9.160	167	2655314	345.562
132) 1,2,4-Trimethylbenzene	(3)	9.196	105	10139236	241.731
133) sec-Butylbenzene	(3)	9.330	105	10935446	216.458
134) 1,3-Dichlorobenzene	(3)	9.391	146	6809765	271.977
135) p-Isopropyltoluene	(3)	9.439	119	11059487	228.033
136)*1,4-Dichlorobenzene-d4	(3)	9.439	152	806414	50.000
138) 1,4-Dichlorobenzene	(3)	9.458	146	7568977	281.764
139) 1,2,3-Trimethylbenzene	(3)	9.506	105	9983832	232.616
141) Benzyl Chloride	(3)	9.561	91	8410406	299.409
142) 1,3-Diethylbenzene	(3)	9.658	119	7323155	265.599

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

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

PCH09 0144

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

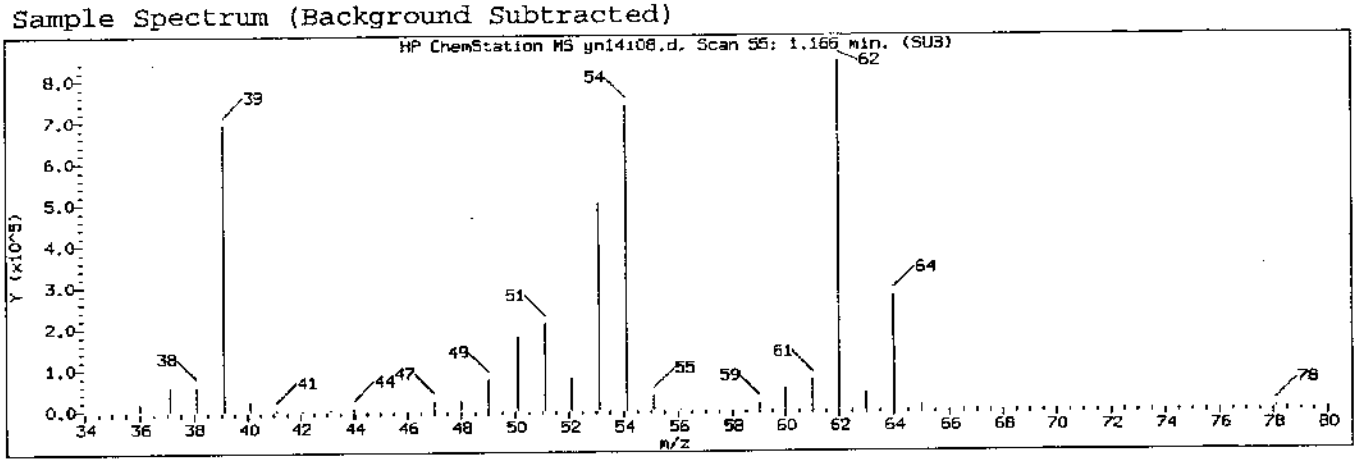
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
143) 1,4-Diethylbenzene	(3)	9.719	119	8119601	267.255
144) 1,2-Dichlorobenzene	(3)	9.725	146	7506416	282.167
145) n-Butylbenzene	(3)	9.738	92	6482224	273.511
146) 1,2-Diethylbenzene	(3)	9.798	119	6550790	274.177
148) 1,2-Dibromo-3-Chloropropane	(3)	10.267	75	1157766	288.524
149) 1,3,5-Trichlorobenzene	(3)	10.419	180	5699555	279.898
150) 1,2,4-Trichlorobenzene	(3)	10.827	180	5220961	276.871
151) Hexachlorobutadiene	(3)	10.948	225	2484074	274.411
152) Naphthalene	(3)	10.985	128	11082851	186.008
153) 1,2,3-Trichlorobenzene	(3)	11.143	180	5039079	270.757
154) 2-Methylnaphthalene	(3)	11.703	142	8431149	226.621

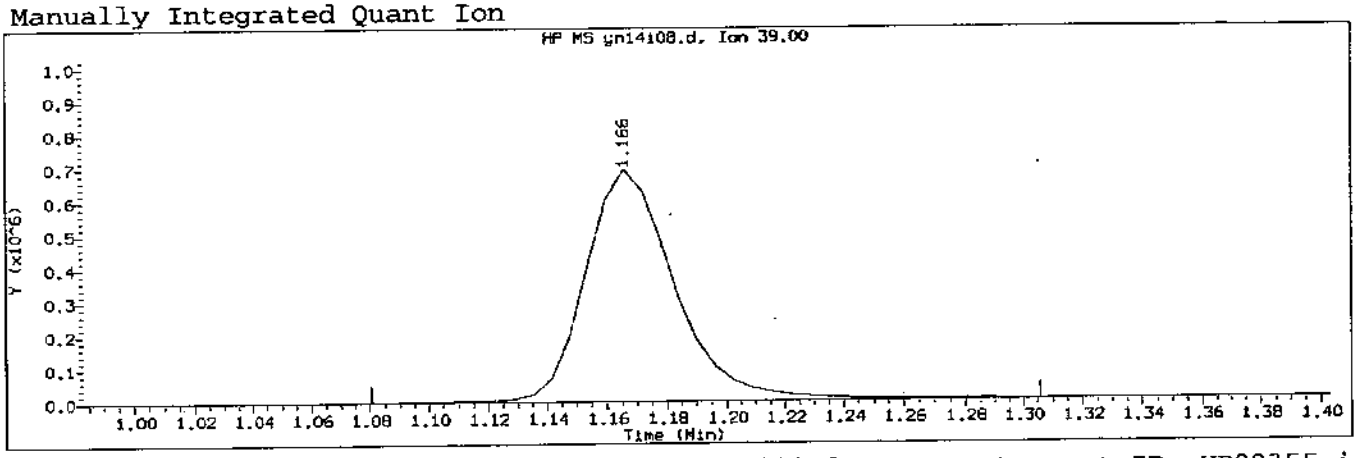
Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29
Target 3.5 esignature user ID: fav02618

PCH89 0145

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area (flag)	: 1439694M		
On-Column Amount (ng)	: 243.9053		
Integration start scan	: 40	Integration stop scan:	77
Y at integration start	: 0	Y at integration end:	0

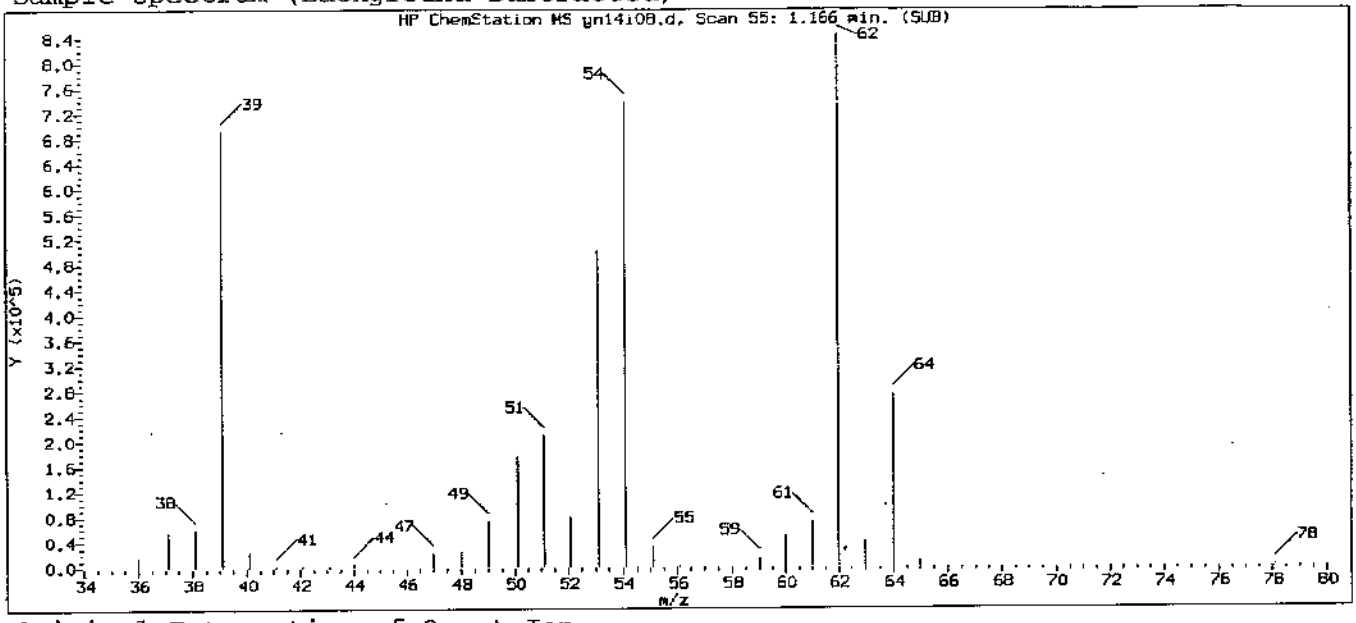
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

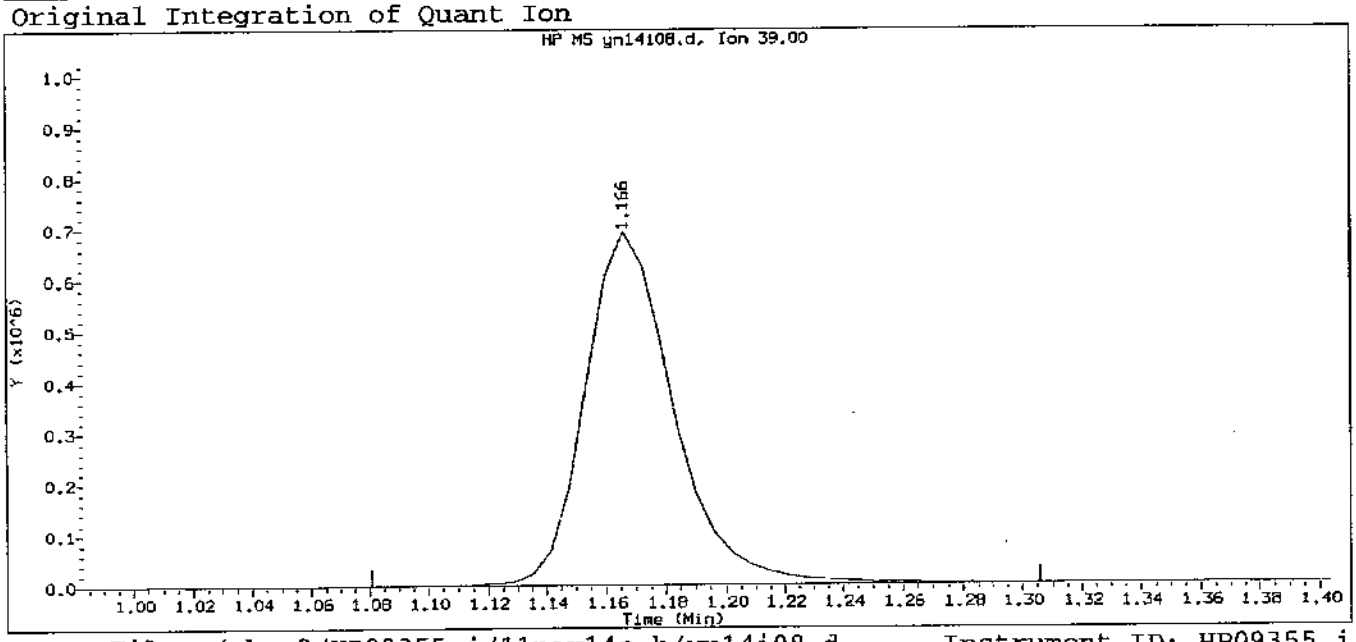
GC/MS audit/management approval: 11-17-11

PCH69 6146

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 16:10 nrr01826

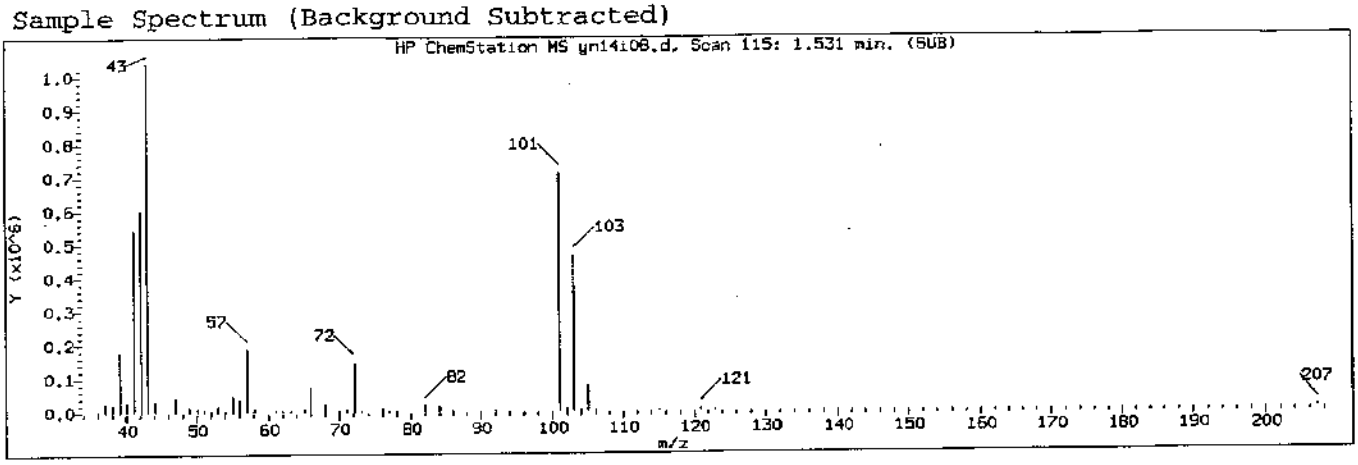
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area	: 1425918		
On-column Amount (ng)	: 264.5637		
Integration start scan	: 40	Integration stop scan:	77
Y at integration start	: 590	Y at integration end:	1378

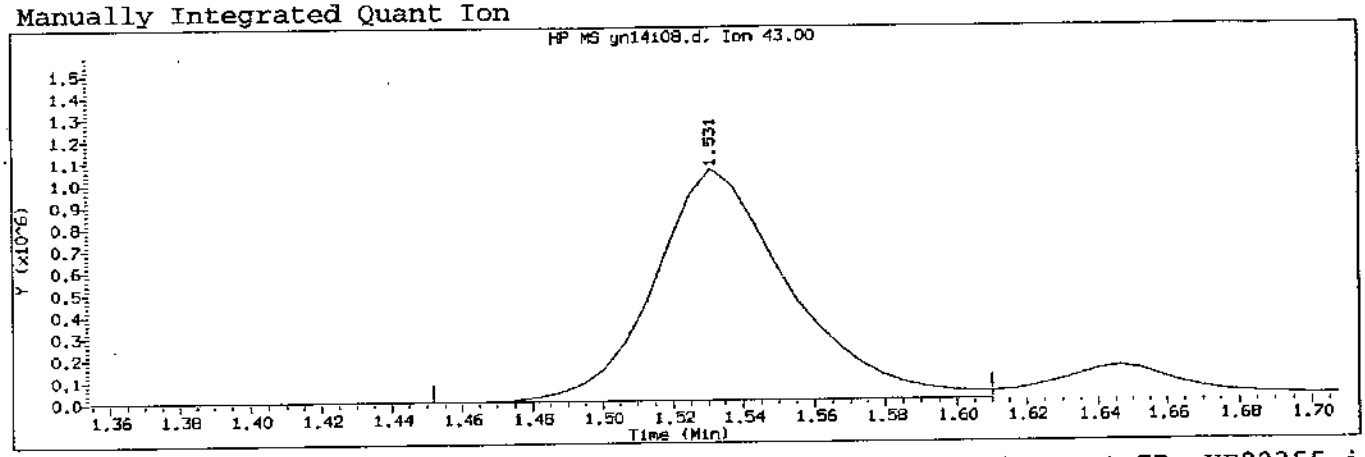
PCH05 0147

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 11		
Compound Name	: n-Pentane		
Scan Number	: 115		
Retention Time (minutes)	: 1.531		
Quant Ion	: 43.00		
Area (flag)	: 2826993M		
On-Column Amount (ng)	: 245.1451		
Integration start scan	: 101	Integration stop scan:	127
Y at integration start	: 0	Y at integration end:	0

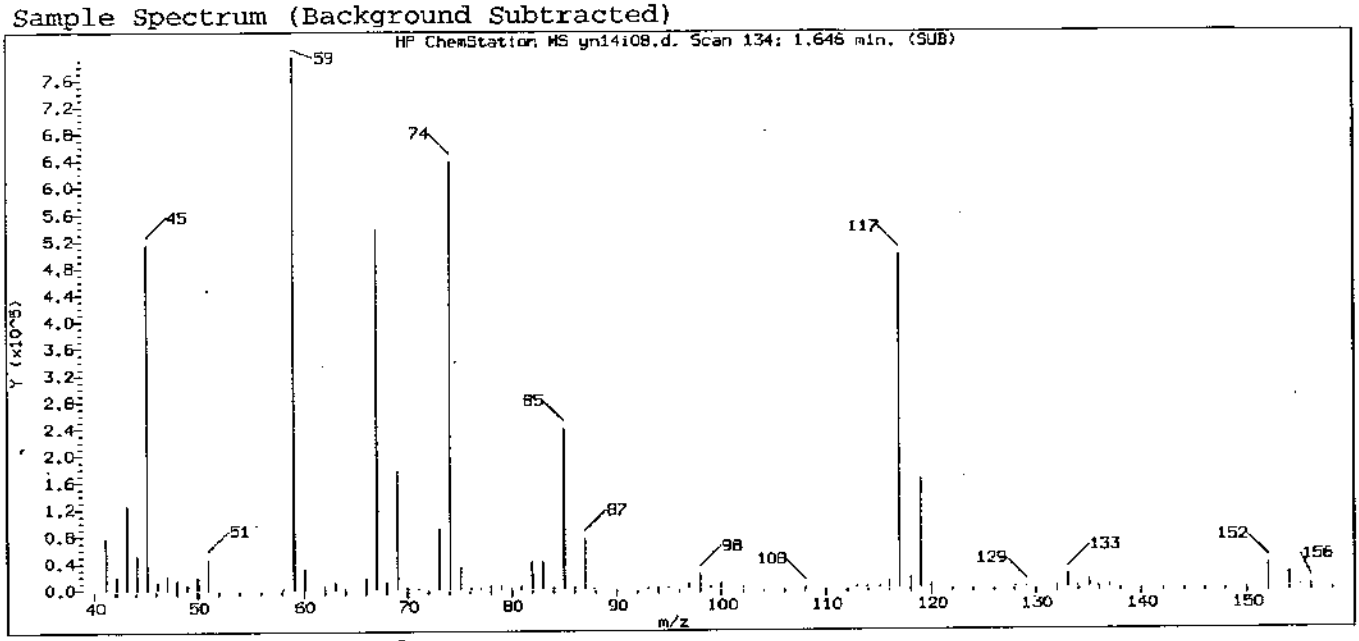
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valia Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

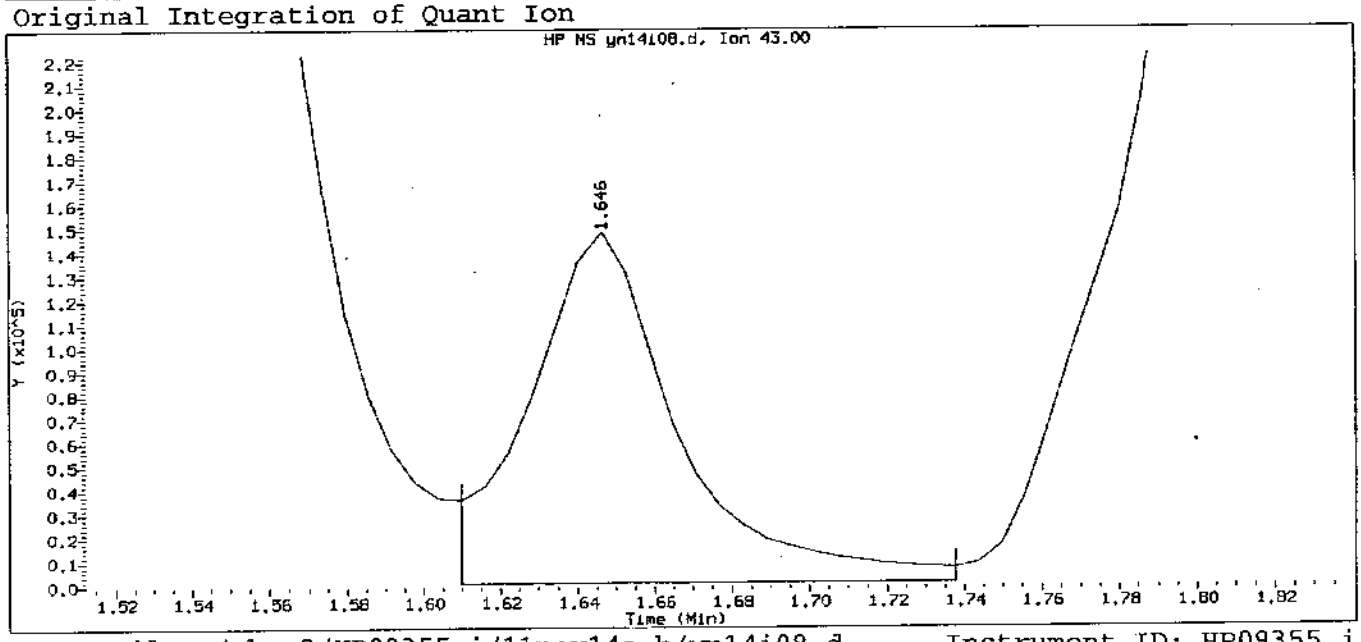
GC/MS audit/management approval: 11/17/11

PCH89 8148

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 16:10 nrr01826

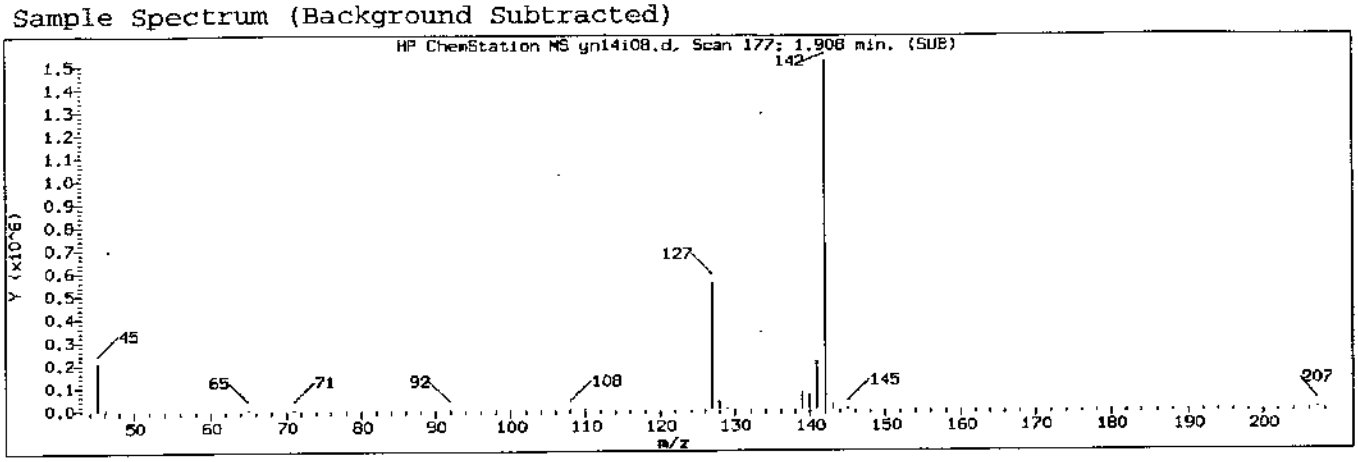
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 11		
Compound Name	: n-Pentane		
Scan Number	: 134		
Retention Time (minutes)	: 1.646		
Quant Ion	: 43.00		
Area	: 390998		
On-column Amount (ng)	: 268.8553		
Integration start scan	: 127	Integration stop scan:	148
Y at integration start	: 837	Y at integration end:	837

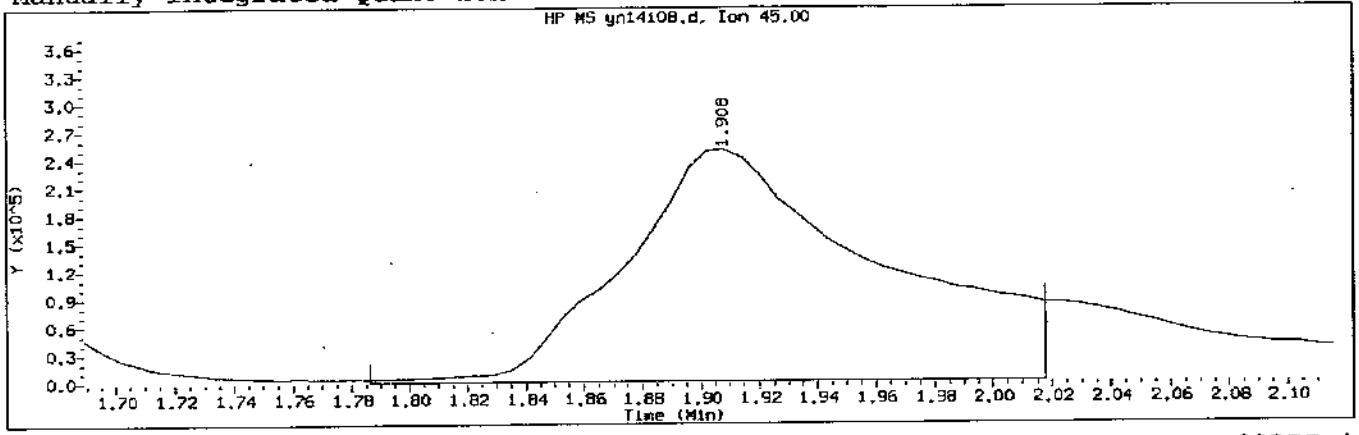
PCH09 8149

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 177		
Retention Time (minutes)	: 1.908		
Quant Ion	: 45.00		
Area (flag)	: 1526163M		
On-Column Amount (ng)	: 1115.8669		
Integration start scan	: 156	Integration stop scan:	194
Y at integration start	: 0	Y at integration end:	0

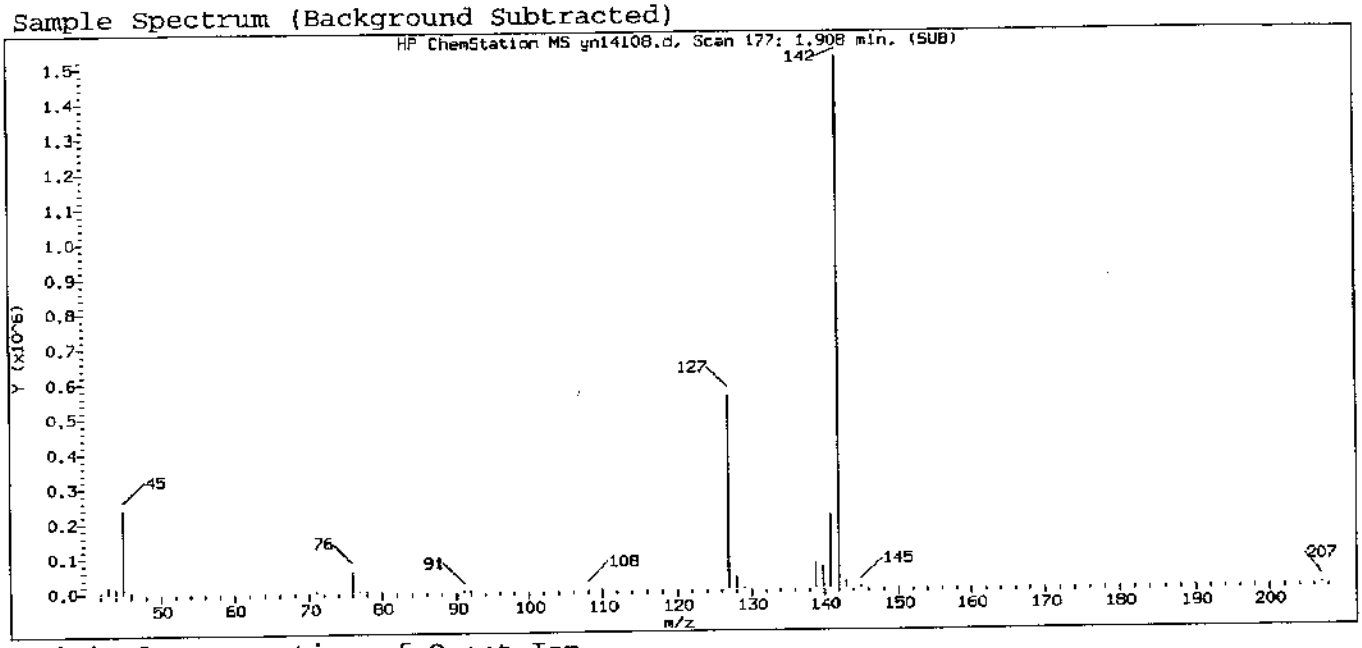
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29. Target 3.5 esignature user ID: fav02618

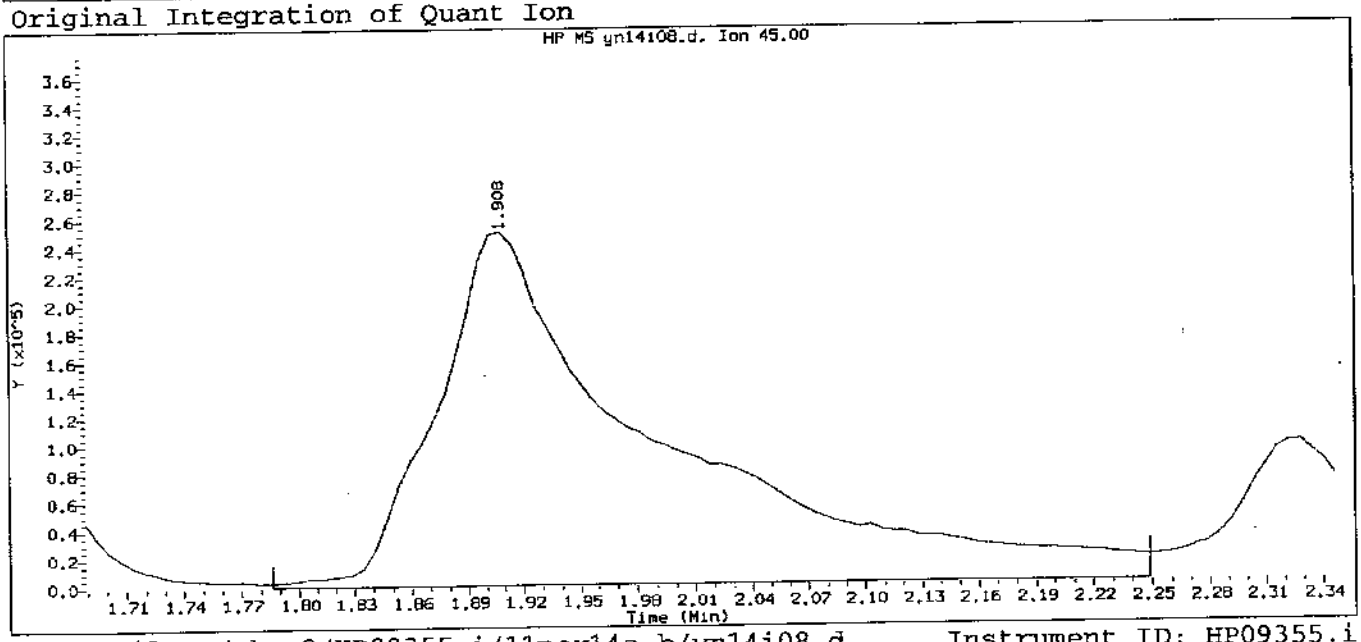
GC/MS audit/management approval: 11/17/11

PCH09-0156

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 16:10 nrr01826

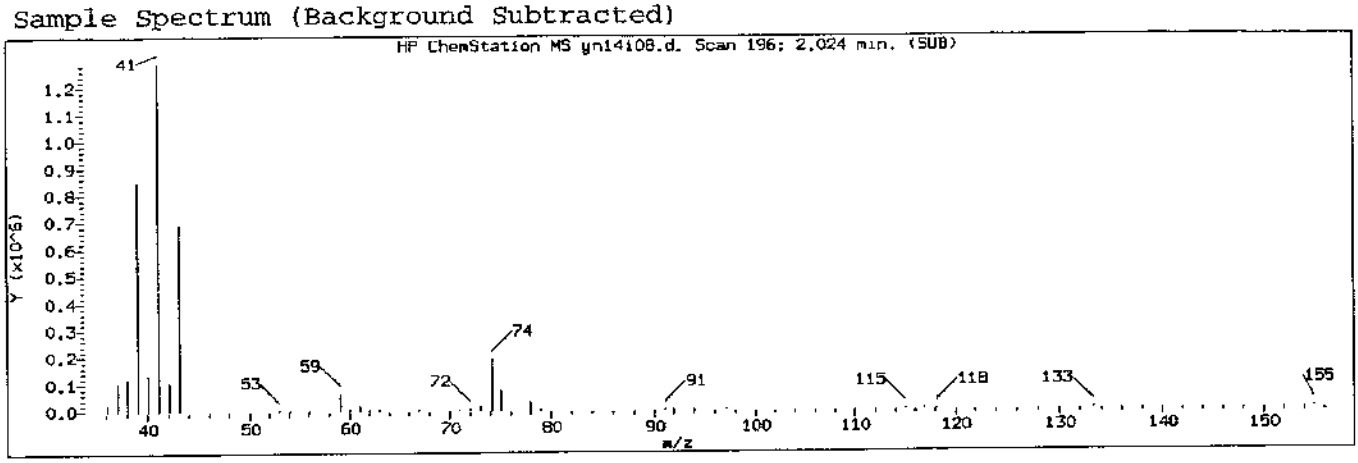
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 177		
Retention Time (minutes)	: 1.908		
Quant Ion	: 45.00		
Area	: 2048867		
On-column Amount (ng)	: 2142.1664		
Integration start scan	: 156	Integration stop scan:	232
Y at integration start	: 0	Y at integration end:	0

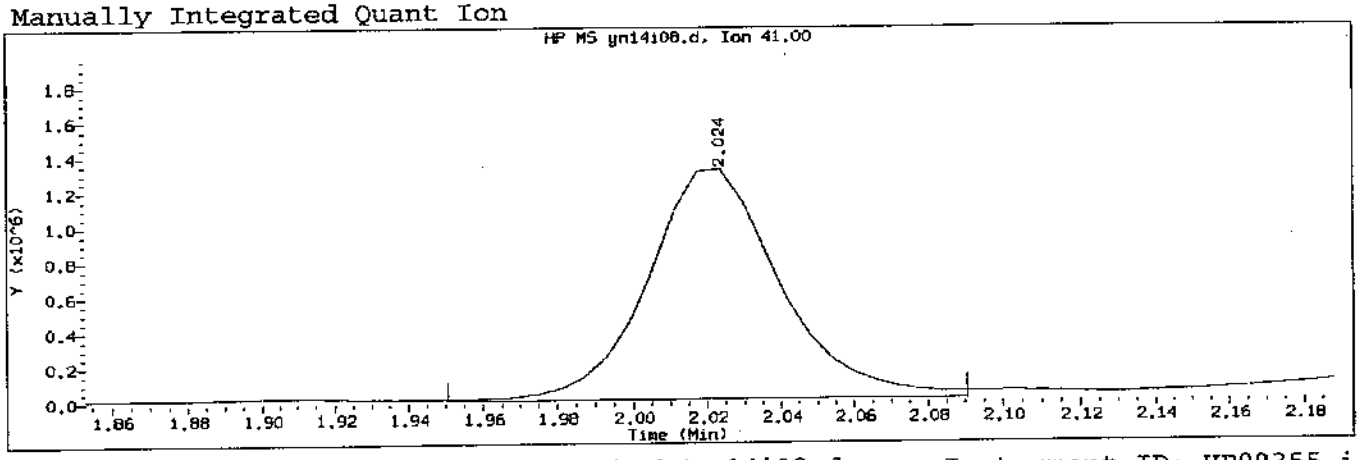
PCH89 9151

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300 Lab Sample ID: VSTD300

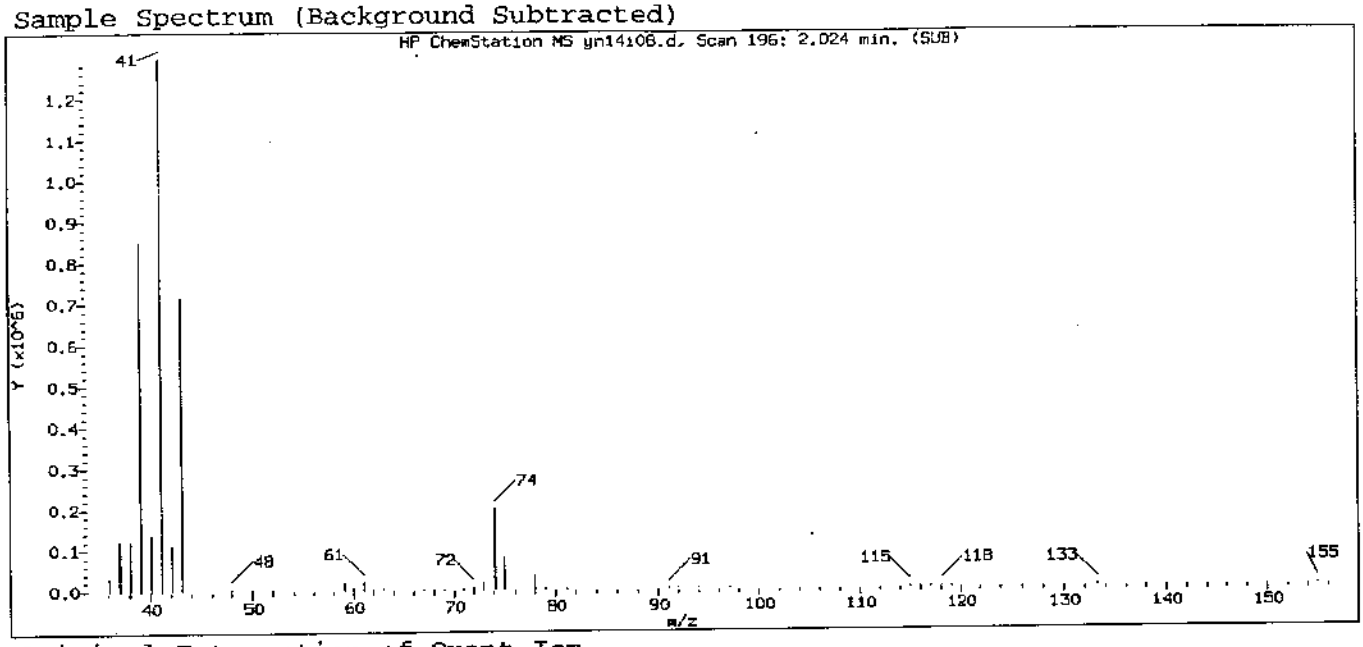
Compound Number	: 24		
Compound Name	: Allyl Chloride		
Scan Number	: 196		
Retention Time (minutes)	: 2.024		
Quant Ion	: 41.00		
Area (flag)	: 3266877M		
On-Column Amount (ng)	: 273.9858		
Integration start scan	: 183	Integration stop scan:	206
Y at integration start	: 10785	Y at integration end:	10785

Reason for manual integration: improper integration

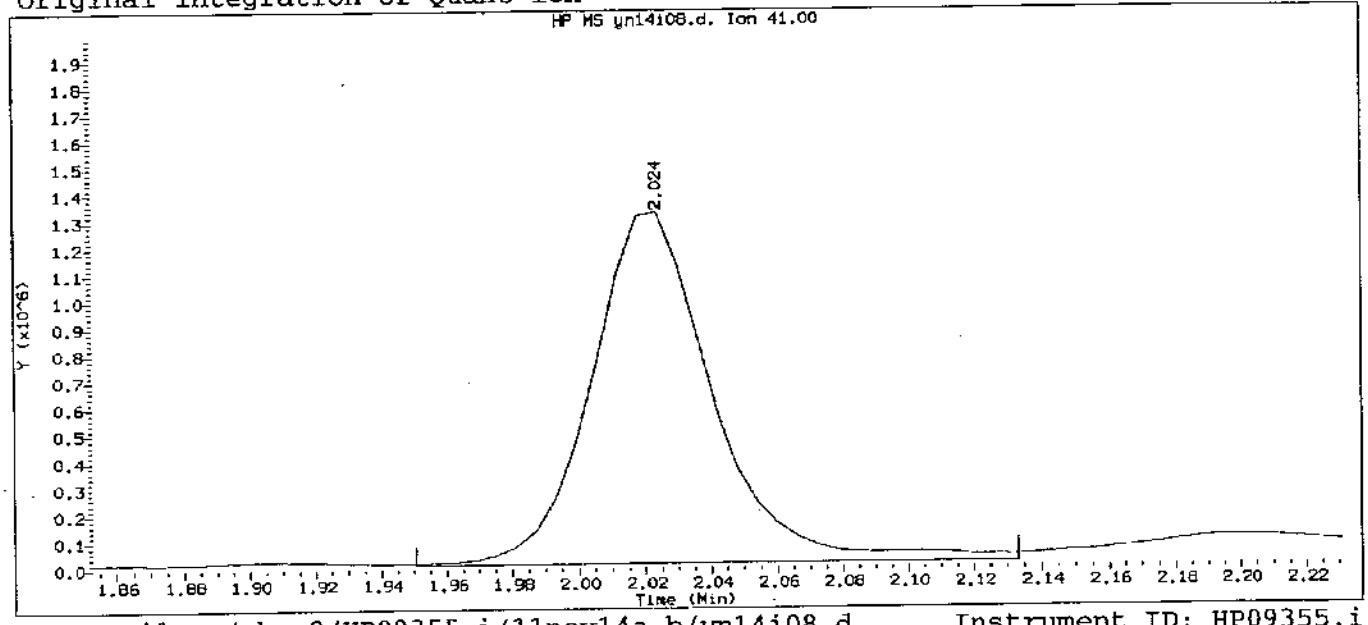
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 0152

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 16:10 nrr01826

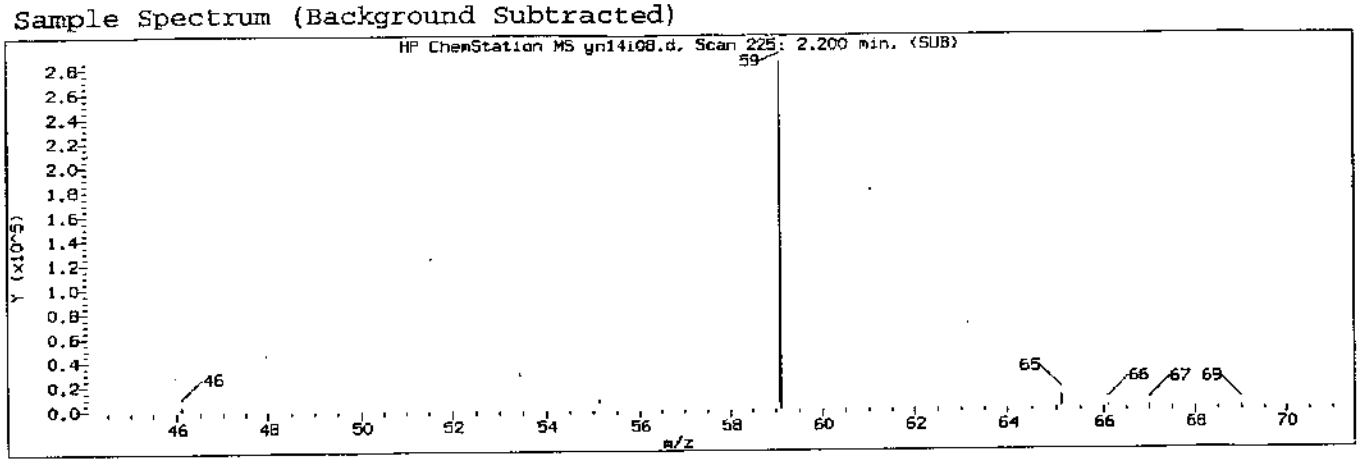
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 24		
Compound Name	: Allyl Chloride		
Scan Number	: 196		
Retention Time (minutes)	: 2.024		
Quant Ion	: 41.00		
Area	: 3343809		
On-column Amount (ng)	: 287.8142		
Integration start scan	: 183	Integration stop scan:	213
Y at integration start	: 10785	Y at integration end:	10785

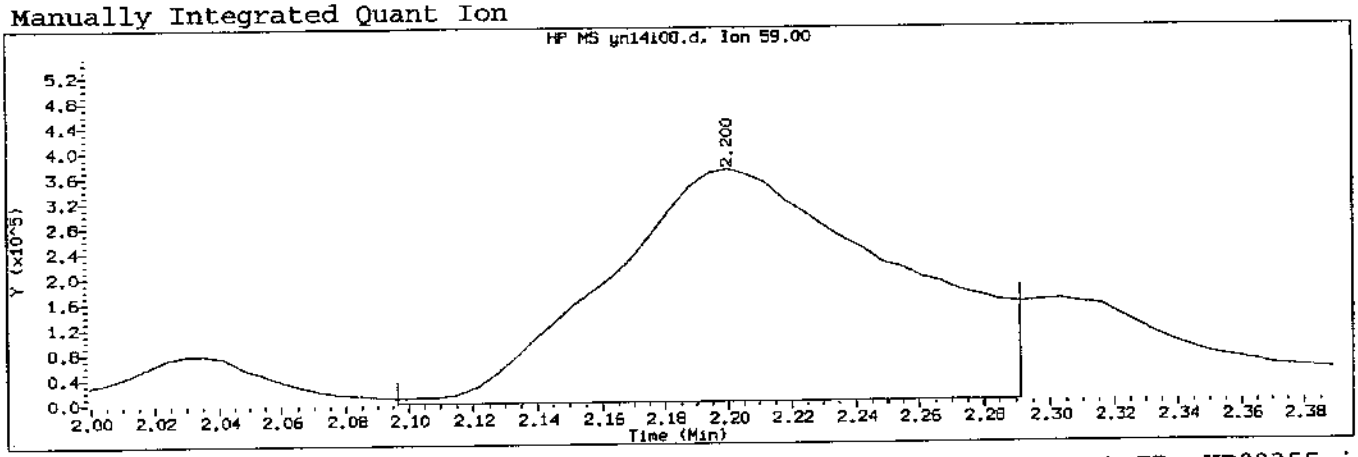
PCH89 0153

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 225		
Retention Time (minutes)	: 2.200		
Quant Ion	: 59.00		
Area (flag)	: 2335835M		
On-Column Amount (ng)	: 1237.5288		
Integration start scan	: 207	Integration stop scan:	239
Y at integration start	: 0	Y at integration end:	0

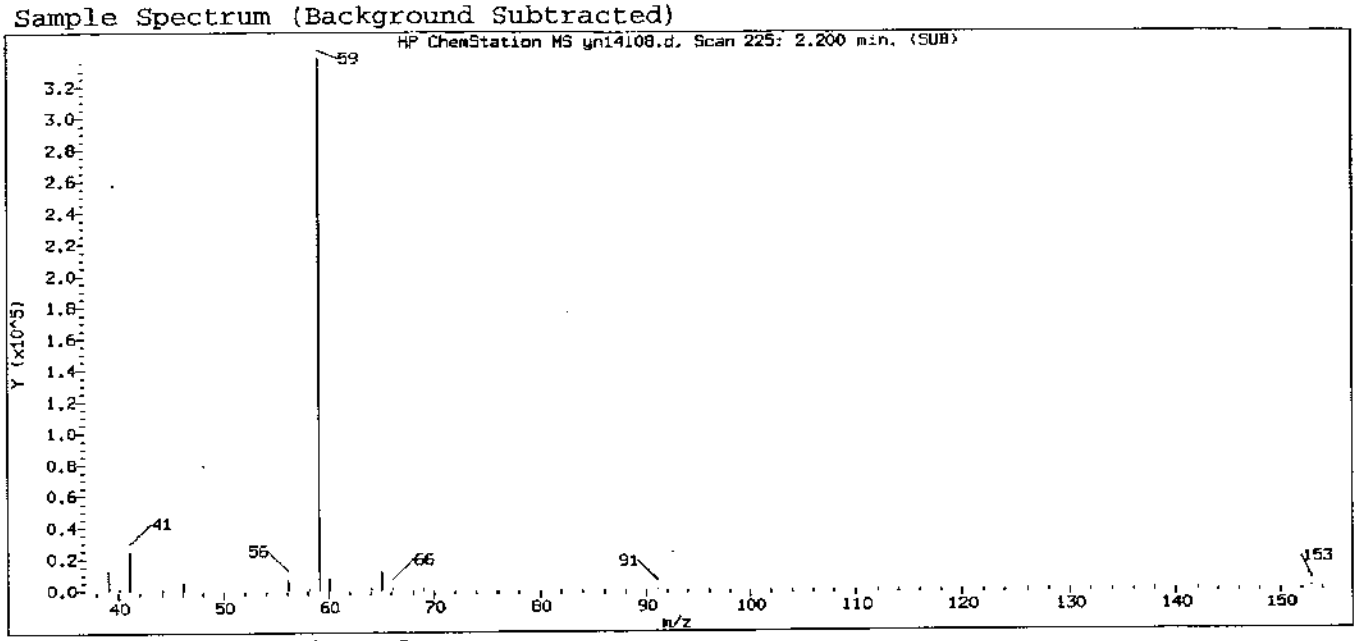
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

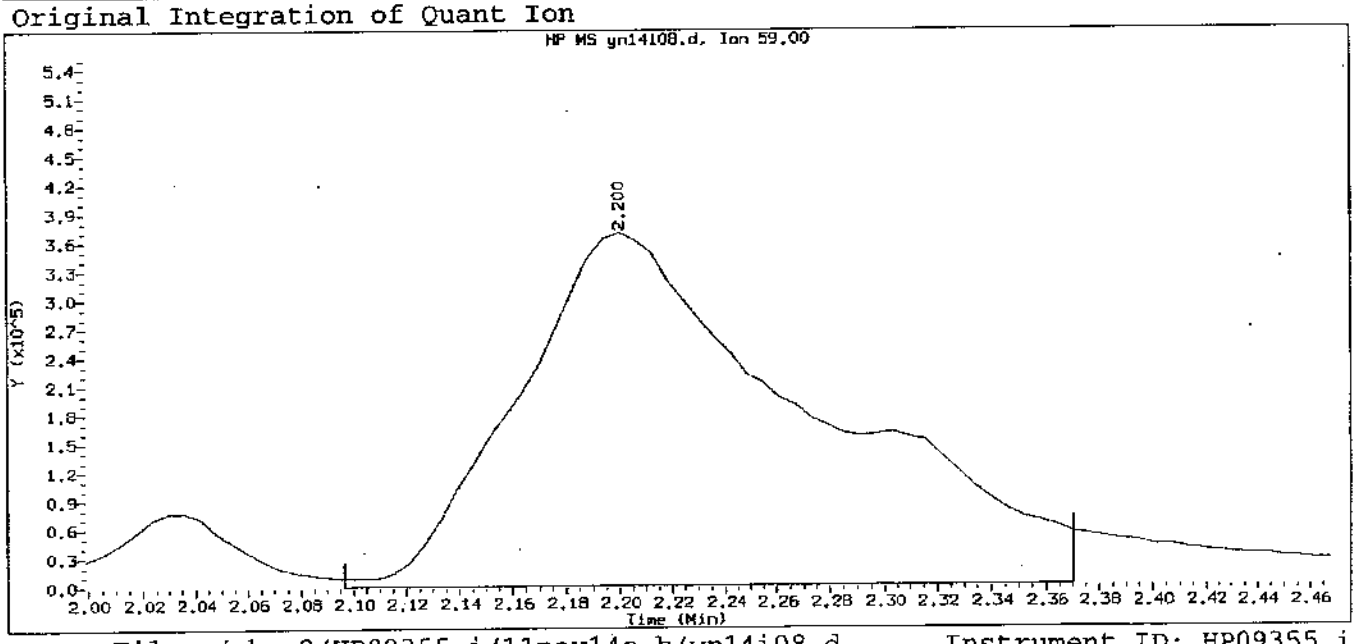
GC/MS audit/management approval: 11/17/11

PCH89 0154

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 16:10 nrr01826

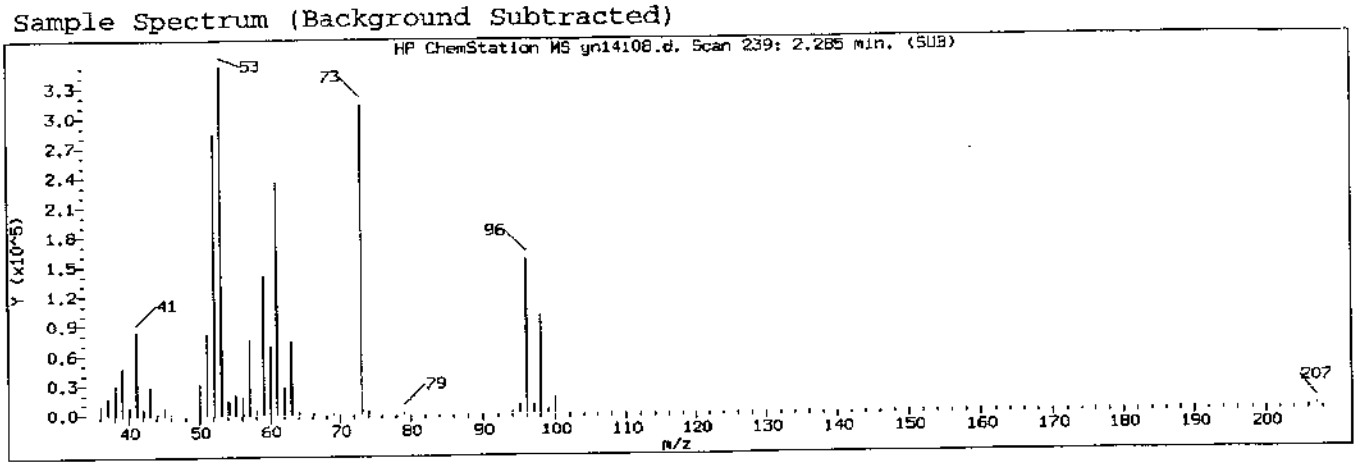
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 225		
Retention Time (minutes)	: 2.200		
Quant Ion	: 59.00		
Area	: 2836979		
On-column Amount (ng)	: 4812.5051		
Integration start scan	: 207	Integration stop scan:	252
Y at integration start	: 0	Y at integration end:	0

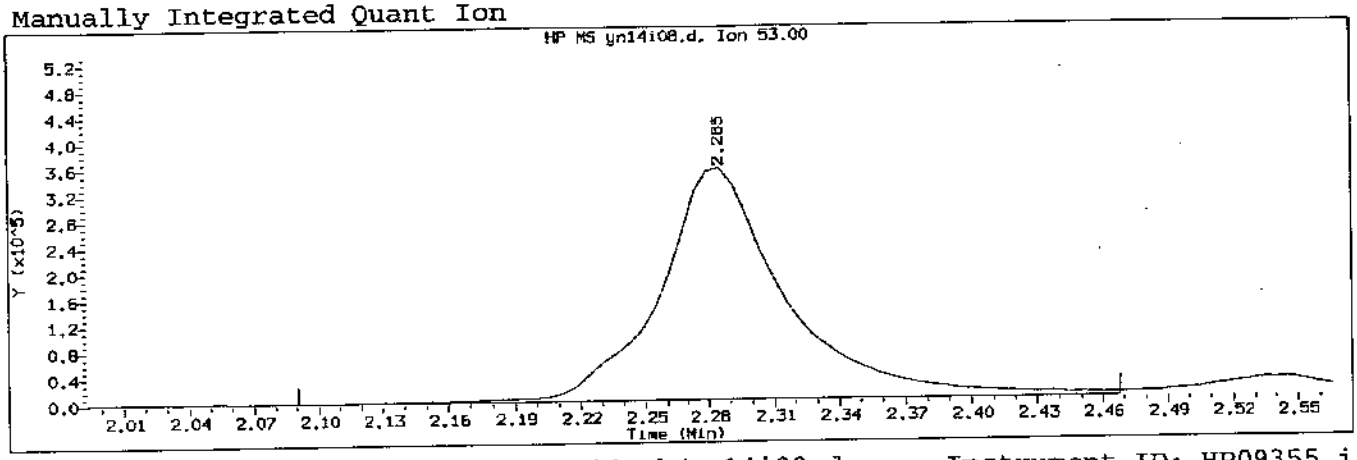
PCH09 0155

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 17:30 fav02618

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 30		
Compound Name	: Acrylonitrile		
Scan Number	: 239		
Retention Time (minutes)	: 2.285		
Quant Ion	: 53.00		
Area (flag)	: 1463608M		
On-Column Amount (ng)	: 279.6537		
Integration start scan	: 206	Integration stop scan:	268
Y at integration start	: 0	Y at integration end:	0

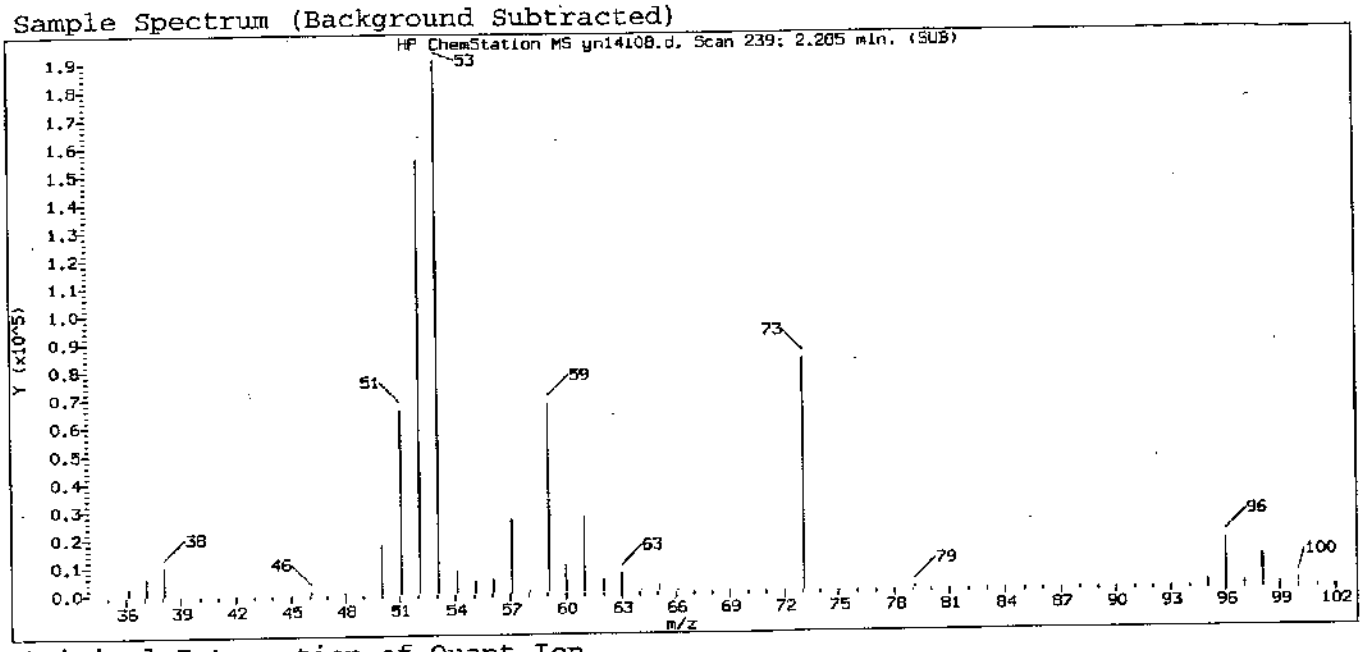
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

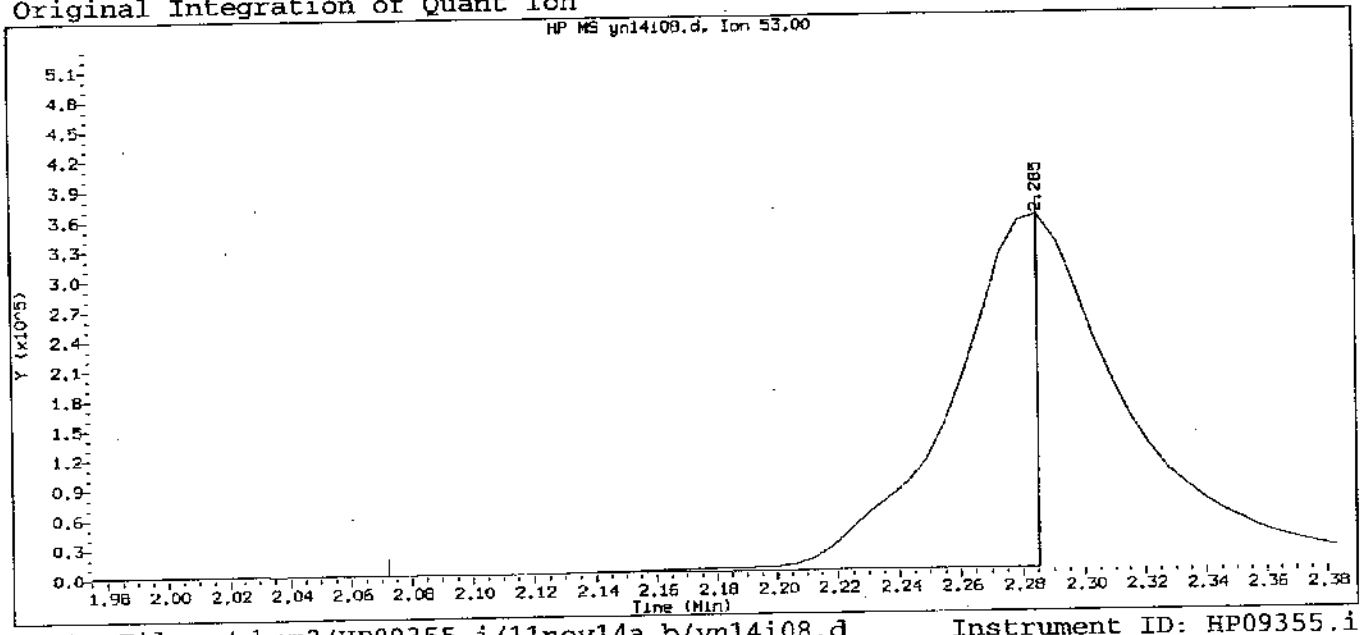
GC/MS audit/management approval: 11/17/11

PCH09 8156

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i08.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 14:48 Analyst ID: NRR01826

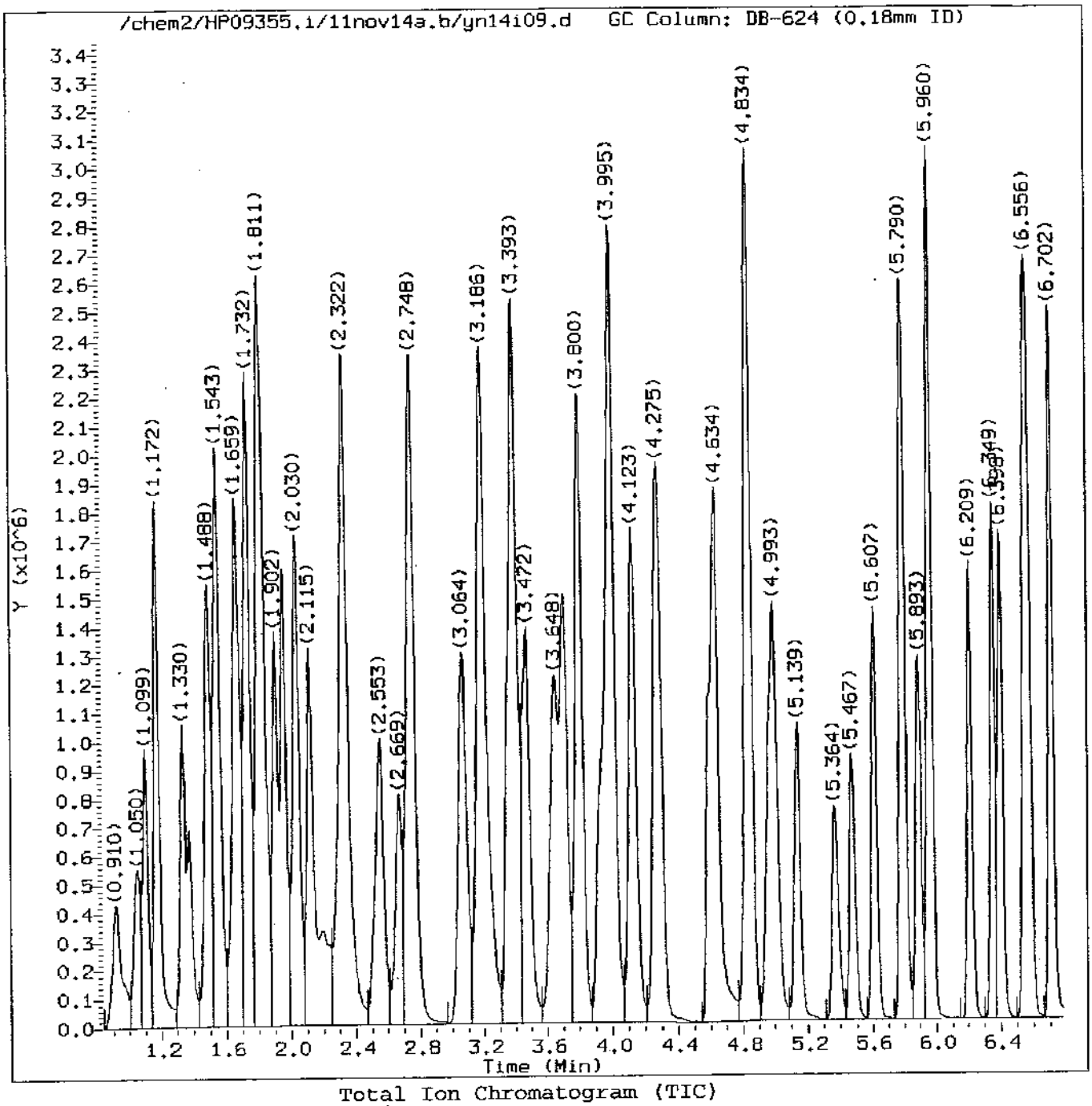
Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:10
Date, time and analyst ID of latest file update: 14-Nov-2011 16:10 nrr01826

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 30		
Compound Name	: Acrylonitrile		
Scan Number	: 239		
Retention Time (minutes)	: 2.285		
Quant Ion	: 53.00		
Area	: 683780		
On-column Amount (ng)	: 275.3277		
Integration start scan	: 203	Integration stop scan:	238
Y at integration start	: 930	Y at integration end:	930

PCH89 0157

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618



Total Ion Chromatogram (TIC)

Target Revision 3.5

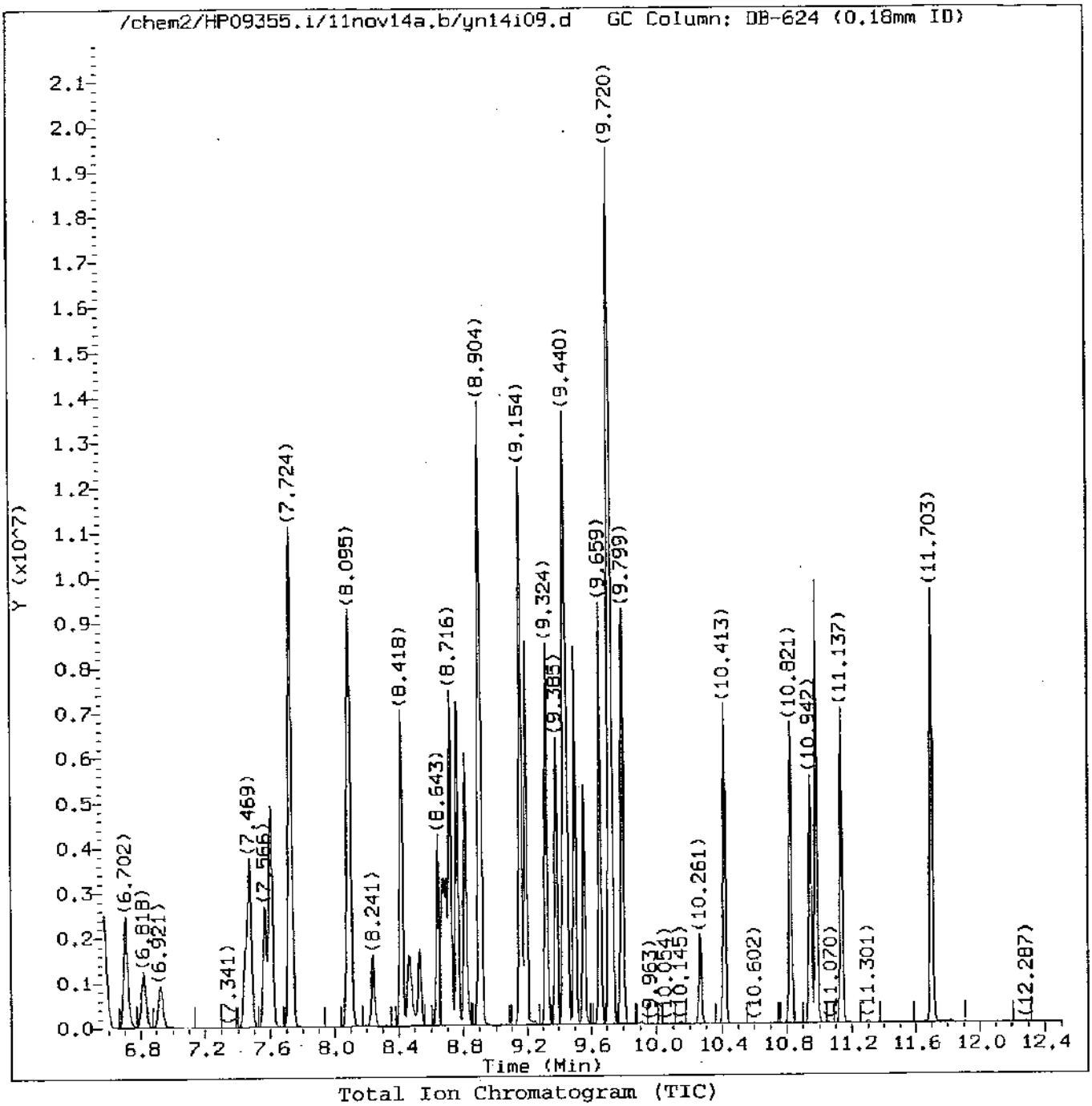
Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100 Lab Sample ID: VSTD100

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on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

PCH09 0158



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100 Lab Sample ID: VSTD100

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on 11/14/2011 at 20:29
Target 3.5 esignature user ID: fav02618

PCH09 8159

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d
Injection date and time: 14-NOV-2011 15:08

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sublist used: 8260WI

Sample Name: VSTD100

Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.050	85	1192739	98.268
3) Chloromethane	(1)	1.099	50	1041591	93.314
4) 1,3-Butadiene	(1)	1.166	39	523182M	94.332
5) Vinyl Chloride	(1)	1.172	62	1086722	97.149
7) Bromomethane	(1)	1.330	94	850835	100.679
8) Chloroethane	(1)	1.373	64	634488	99.599
9) Dichlorofluoromethane	(1)	1.482	67	1598126	97.684
11) n-Pentane	(1)	1.543	43	1115110	103.127
10) Trichlorofluoromethane	(1)	1.549	101	1585081M	79.854
13) Ethyl Ether	(1)	1.653	59	683118	100.873
14) Freon 123a	(1)	1.665	67	993349	98.288
15) Acrolein	(4)	1.732	56	3173363	972.458
16) 1,1-Dichloroethene	(1)	1.805	96	810859	102.268
18) Freon 113	(1)	1.823	101	868620	104.376
17) Acetone	(1)	1.823	58	338444	188.385
20) Methyl Iodide	(1)	1.902	142	1605678	99.450
21) 2-Propanol	(4)	1.908	45	542698M	400.153
22) Carbon Disulfide	(1)	1.957	76	2345050	101.707
24) Allyl Chloride	(1)	2.030	41	1096181	98.047
25) Methyl Acetate	(1)	2.042	43	1043609M	96.926
26) Methylene Chloride	(1)	2.115	84	676244	99.834
28)*t-Butyl Alcohol-d10	(4)	2.133	65	407293	250.000
29) t-Butyl Alcohol	(4)	2.200	59	797541M	426.111
30) Acrylonitrile	(1)	2.291	53	451989	92.104
31) trans-1,2-Dichloroethene	(1)	2.322	96	656432	100.902
32) Methyl Tertiary Butyl Ether	(1)	2.328	73	2125540	100.663
33) n-Hexane	(1)	2.553	57	921999	102.742
34) 1,1-Dichloroethane	(1)	2.669	63	1159503	101.710
36) di-Isopropyl Ether	(1)	2.742	45	2067737	100.778
37) 2-Chloro-1,3-Butadiene	(1)	2.748	53	1046094	102.777
39) Ethyl t-Butyl Ether	(1)	3.064	59	2054621	101.412
40) cis-1,2-Dichloroethene	(1)	3.180	96	714868	100.776
42) 2,2-Dichloropropane	(1)	3.186	77	995710	104.554
41) 2-Butanone	(1)	3.192	43	1310243	195.294
43) Propionitrile	(4)	3.241	54	969561	493.004
46) Methacrylonitrile	(1)	3.380	67	1150394	253.265
47) Bromochloromethane	(1)	3.393	128	388748	101.857
48) Tetrahydrofuran	(4)	3.441	71	366180	197.232

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

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on 11/14/2011 at 20:29:
Target 3.5 esignature user ID: fav02618

PCH89 8168

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Chloroform	(1)	3.472	83	1153423	101.150
51)$Dibromofluoromethane(mz111)	(1)	3.624	111	290337	50.203
52)$Dibromofluoromethane	(1)	3.624	113	282282	49.719
45) 1,2-Dichloroethene (total)	(1)		96	1371300	201.679
53) 1,1,1-Trichloroethane	(1)	3.648	97	1105797	95.616
55) Cyclohexane (mz 69)	(1)	3.709	69	344890	102.545
54) Cyclohexane (mz 84)	(1)	3.709	84	971082	102.756
56) Cyclohexane	(1)	3.709	56	1111135	102.404
57) 1,1-Dichloropropene	(1)	3.800	75	909772	101.585
58) Carbon Tetrachloride	(1)	3.806	117	956867	105.666
61)$1,2-Dichloroethane-d4(mz65)	(1)	3.934	65	374725M	50.424
60)$1,2-Dichloroethane-d4(mz104)	(1)	3.934	104	44409	50.350
62)$1,2-Dichloroethane-d4	(1)	3.934	102	70434	50.568
59) Isobutyl Alcohol	(4)	3.940	41	695477	1149.511
63) Benzene	(1)	3.995	78	2622444	100.793
64) 1,2-Dichloroethane (mz 98)	(1)	4.007	98	84756	101.183
65) 1,2-Dichloroethane	(1)	4.007	62	1038104	100.828
69) t-Amyl Methyl Ether	(1)	4.123	73	1973927	99.140
71)*Fluorobenzene	(1)	4.269	96	1146789	50.000
72) n-Heptane	(1)	4.287	43	991953	97.378
73) n-Butanol	(4)	4.585	56	1214069	2467.970
74) Trichloroethene	(1)	4.634	95	711372	101.335
75) Methylcyclohexane (mz98)	(1)	4.828	98	548915	101.694
76) Methylcyclohexane	(1)	4.828	83	1198063	103.162
77) 1,2-Dichloropropane	(1)	4.847	63	693506	102.158
78) Dibromomethane	(1)	4.962	93	482094	101.644
79) 1,4-Dioxane	(4)	4.980	88	186616	1165.110
80) Methyl Methacrylate	(1)	4.999	69	712251	102.504
83) Bromodichloromethane	(1)	5.139	83	875837	106.858
85) 2-Nitropropane	(1)	5.364	41	713196	237.985
86) 2-Chloroethyl Vinyl Ether	(1)	5.467	63	545662	103.355
87) cis-1,3-Dichloropropene	(1)	5.607	75	1072020	107.164
89) 4-Methyl-2-Pentanone	(1)	5.790	43	2581874	201.452
93)$Toluene-d8	(2)	5.893	98	1135674	49.853
92)$Toluene-d8(mz100)	(2)	5.893	100	740973	49.984
94) Toluene	(2)	5.960	92	1726108	101.462
95) trans-1,3-Dichloropropene	(2)	6.209	75	1045036	109.964
96) Ethyl Methacrylate	(2)	6.355	69	1113306	104.901

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

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on 11/14/2011 at 20:29
Target 3.5 esignature user ID: fav02618

PCH09 0161

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d
Injection date and time: 14-NOV-2011 15:08
Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:12
Sublist used: 8260WI
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100
Lab Sample ID: VSTD100

	Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
97)	1,1,2-Trichloroethane	(2)	6.398	97	659555	100.989
98)	Tetrachloroethene	(2)	6.550	166	850573	101.176
99)	1,3-Dichloropropane	(2)	6.574	76	1105588	100.735
101)	2-Hexanone	(2)	6.702	43	1979281	198.384
102)	Dibromochloromethane	(2)	6.818	129	749904	111.133
104)	1,2-Dibromoethane	(2)	6.921	107	738629	103.233
106)*	Chlorobenzene-d5	(2)	7.444	117	863583	50.000
107)	Chlorobenzene	(2)	7.475	112	2016301	101.359
108)	1,1,1,2-Tetrachloroethane	(2)	7.566	131	722659	107.438
109)	Ethylbenzene	(2)	7.602	91	3420648	102.457
110)	m+p-Xylene	(2)	7.724	106	2976293	211.537
113)	o-Xylene	(2)	8.089	106	1471953	104.793
114)	Styrene	(2)	8.101	104	2460867	107.429
112)	Xylene (Total)	(2)		106	4448246	316.330
115)	Bromoform	(2)	8.241	173	616951	116.698
116)	Isopropylbenzene	(2)	8.418	105	3722218	105.929
118)	Cyclohexanone	(4)	8.466	55	693561	1055.888
120)$	4-Bromofluorobenzene(mz174)	(2)	8.533	174	398174	49.909
119)$	4-Bromofluorobenzene	(2)	8.533	95	431223	50.105
121)	Bromobenzene	(3)	8.643	156	980697	96.853
122)	1,1,2,2-Tetrachloroethane	(3)	8.667	83	1163801	97.227
123)	1,2,3-Trichloropropane	(3)	8.691	110	390809	96.054
124)	trans-1,4-Dichloro-2-Butene	(3)	8.716	53	1097227	252.696
125)	n-Propylbenzene	(3)	8.758	91	4227073	99.493
126)	2-Chlorotoluene	(3)	8.813	126	908764	96.718
128)	4-Chlorotoluene	(3)	8.904	126	1032085	100.790
127)	1,3,5-Trimethylbenzene	(3)	8.910	105	3503020	105.149
130)	tert-Butylbenzene	(3)	9.154	134	835261	103.365
131)	Pentachloroethane	(3)	9.160	167	681460	111.772
132)	1,2,4-Trimethylbenzene	(3)	9.190	105	3377945	101.499
133)	sec-Butylbenzene	(3)	9.324	105	4104412	102.393
134)	1,3-Dichlorobenzene	(3)	9.385	146	1944974	97.903
135)	p-Isopropyltoluene	(3)	9.440	119	3988481	103.646
136)*	1,4-Dichlorobenzene-d4	(3)	9.440	152	639848	50.000
138)	1,4-Dichlorobenzene	(3)	9.452	146	2097437	98.405
139)	1,2,3-Trimethylbenzene	(3)	9.501	105	3436312	100.906
141)	Benzyl Chloride	(3)	9.555	91	2513246	112.762
142)	1,3-Diethylbenzene	(3)	9.659	119	2209530	100.997

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

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Target 3.5 esignature user ID: fav02618

PCH09 8162

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

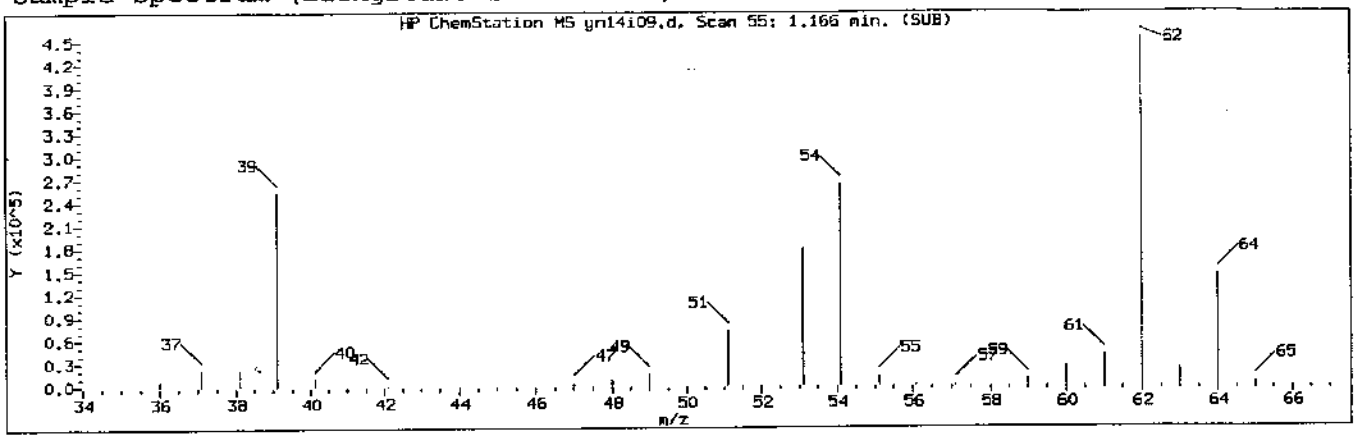
Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100 Lab Sample ID: VSTD100

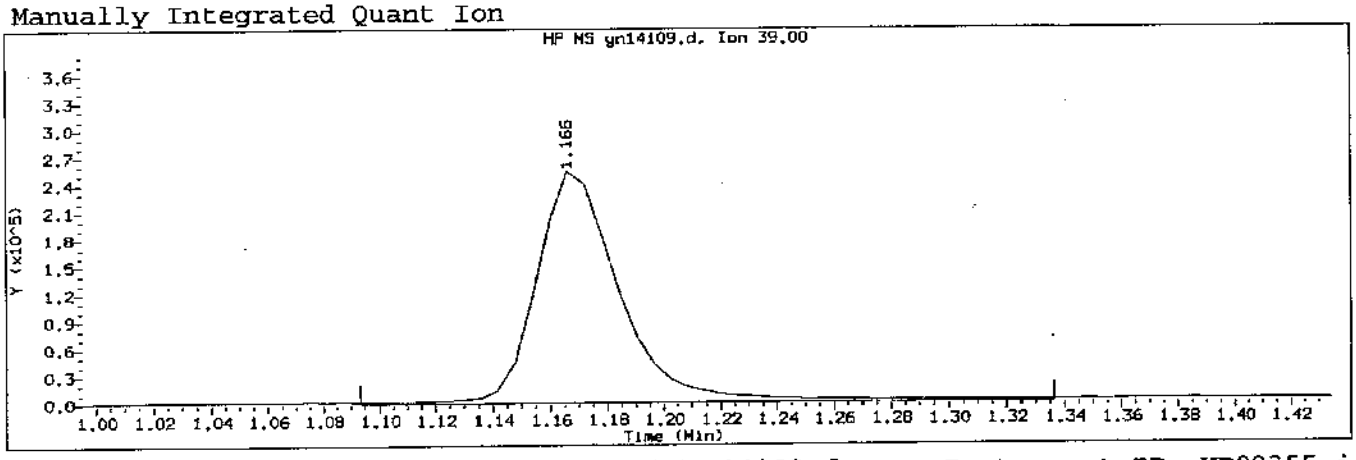
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
144) 1,2-Dichlorobenzene	(3)	9.720	146	2271634	107.620
143) 1,4-Diethylbenzene	(3)	9.720	119	2595268	107.660
145) n-Butylbenzene	(3)	9.732	92	1964023	104.443
146) 1,2-Diethylbenzene	(3)	9.799	119	1907001	100.593
148) 1,2-Dibromo-3-Chloropropane	(3)	10.261	75	333113	104.625
149) 1,3,5-Trichlorobenzene	(3)	10.413	180	1603481	99.244
150) 1,2,4-Trichlorobenzene	(3)	10.827	180	1494265	99.870
151) Hexachlorobutadiene	(3)	10.942	225	708913	98.699
152) Naphthalene	(3)	10.979	128	4901391	103.677
153) 1,2,3-Trichlorobenzene	(3)	11.137	180	1464782	99.193
154) 2-Methylnaphthalene	(3)	11.703	142	3132586	106.120

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on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100 Lab Sample ID: VSTD100

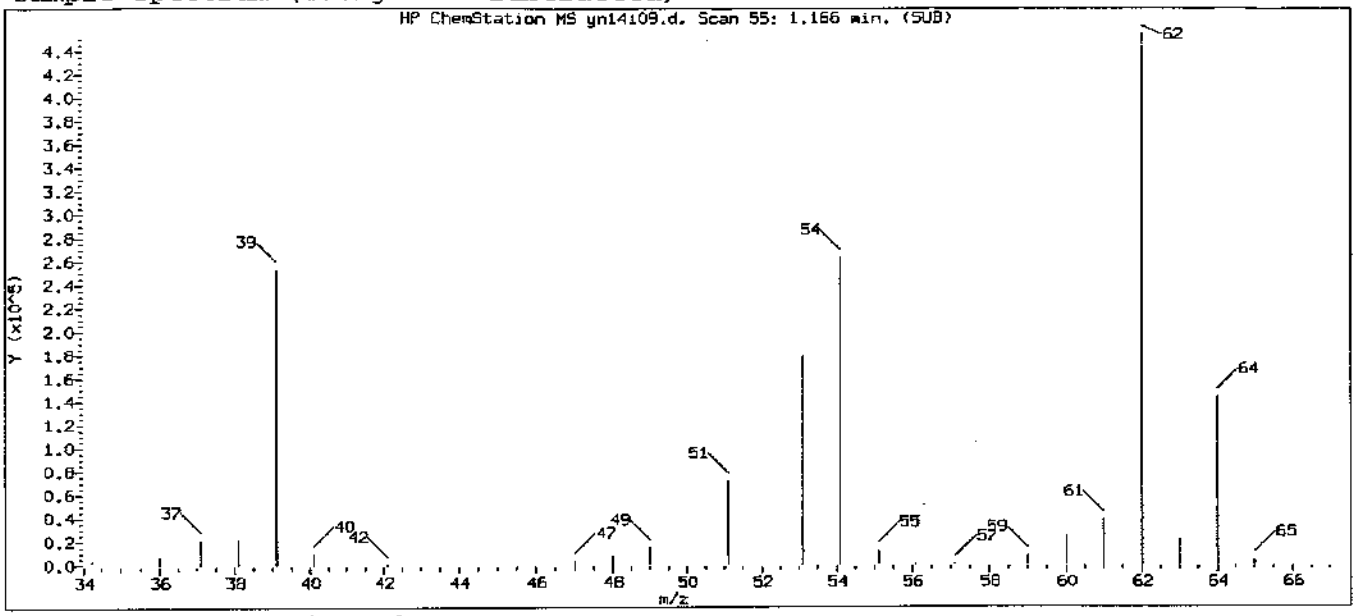
Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area (flag)	: 523182M		
On-Column Amount (ng)	: 94.3317		
Integration start scan	: 42	Integration stop scan:	82
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

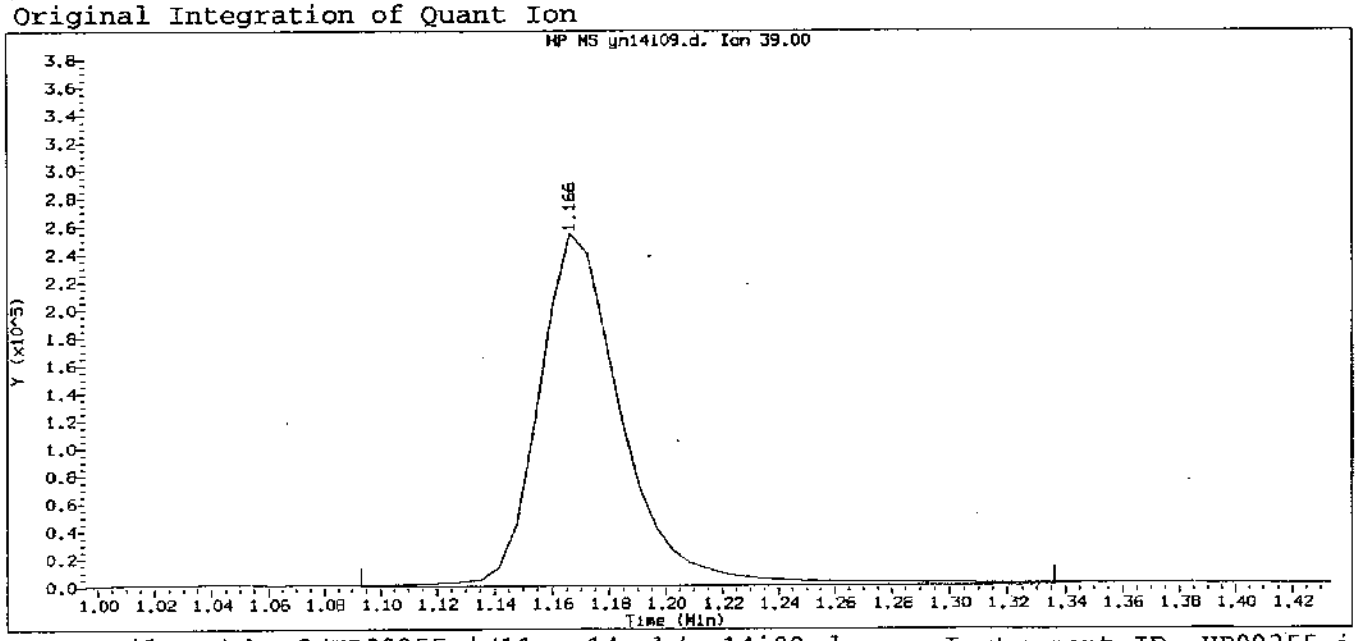
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0164

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

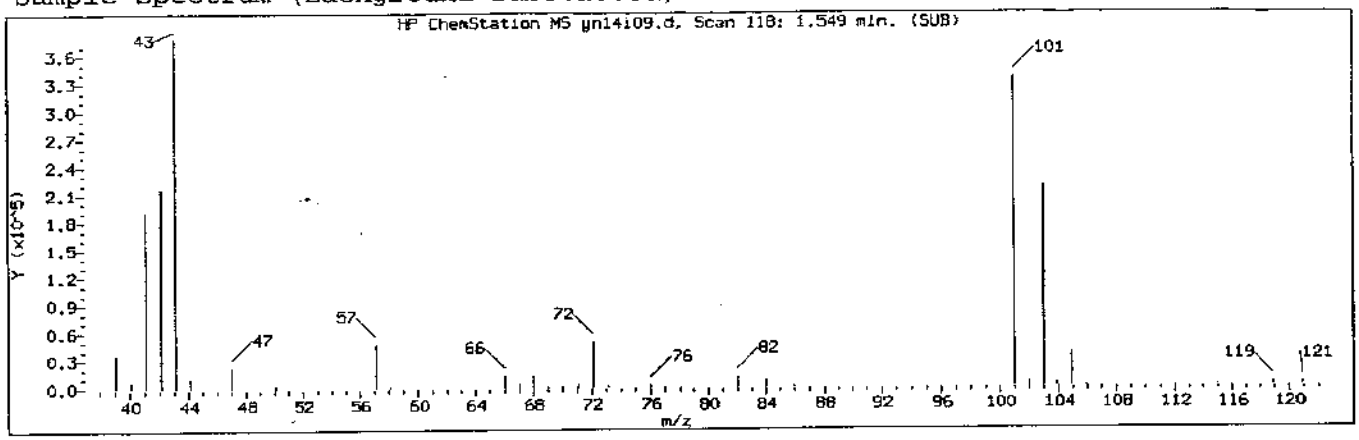
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area	: 516267		
On-column Amount (ng)	: 102.1568		
Integration start scan	: 42	Integration stop scan:	82
Y at integration start	: 301	Y at integration end:	564

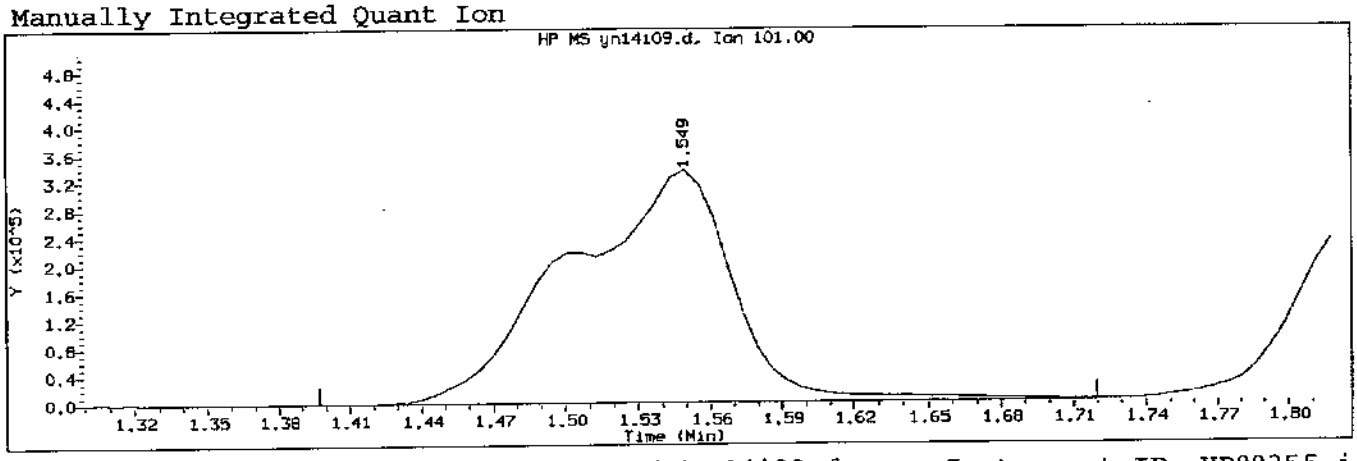
PCH09 0165

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100 Lab Sample ID: VSTD100

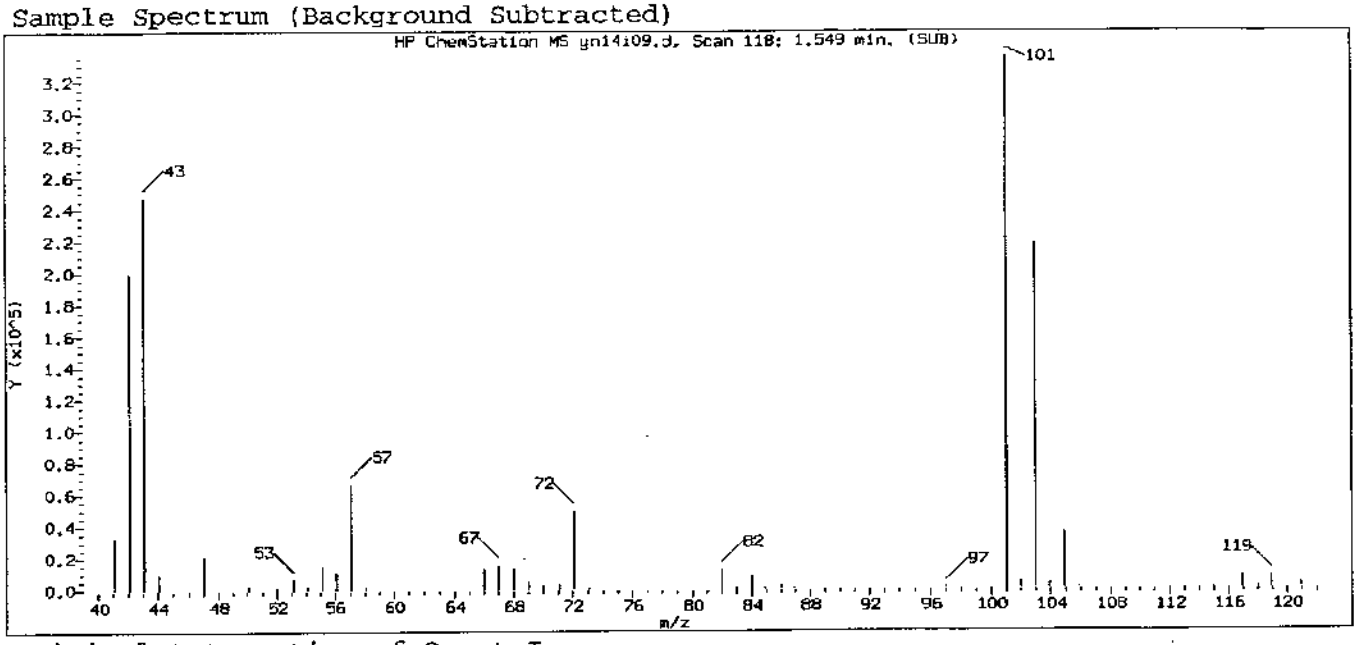
Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 118		
Retention Time (minutes)	: 1.549		
Quant Ion	: 101.00		
Area (flag)	: 1585081M		
On-Column Amount (ng)	: 79.8542		
Integration start scan	: 92	Integration stop scan:	145
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

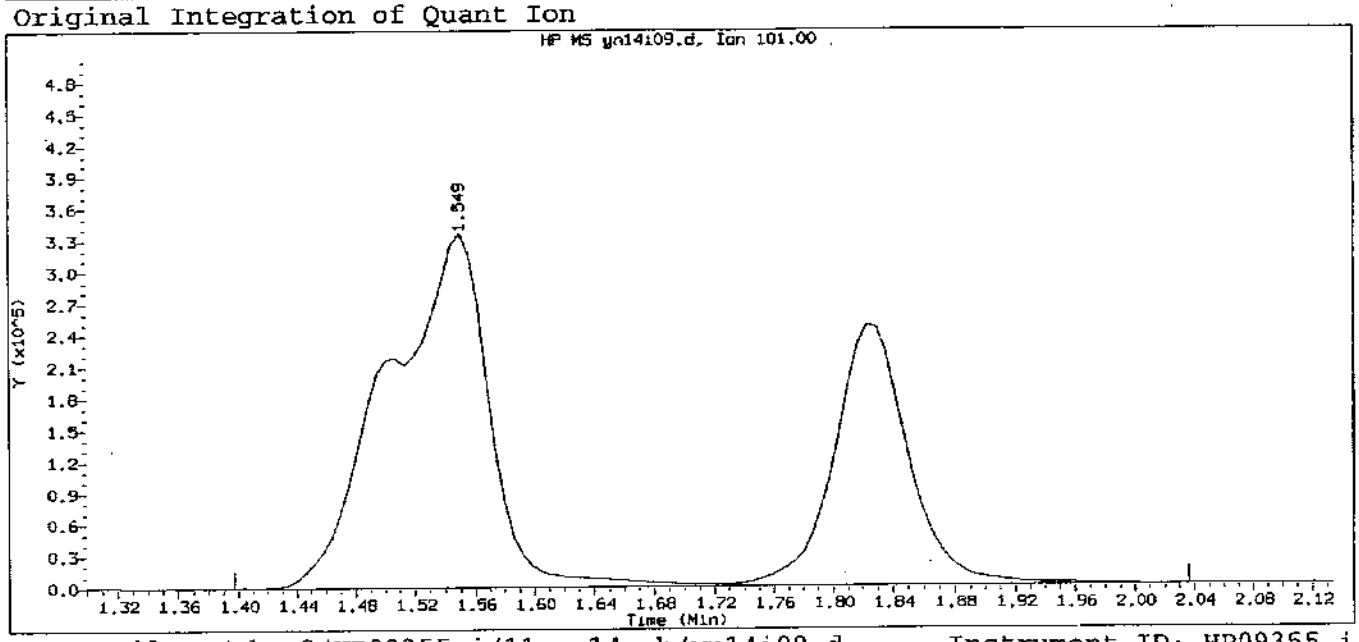
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8166

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

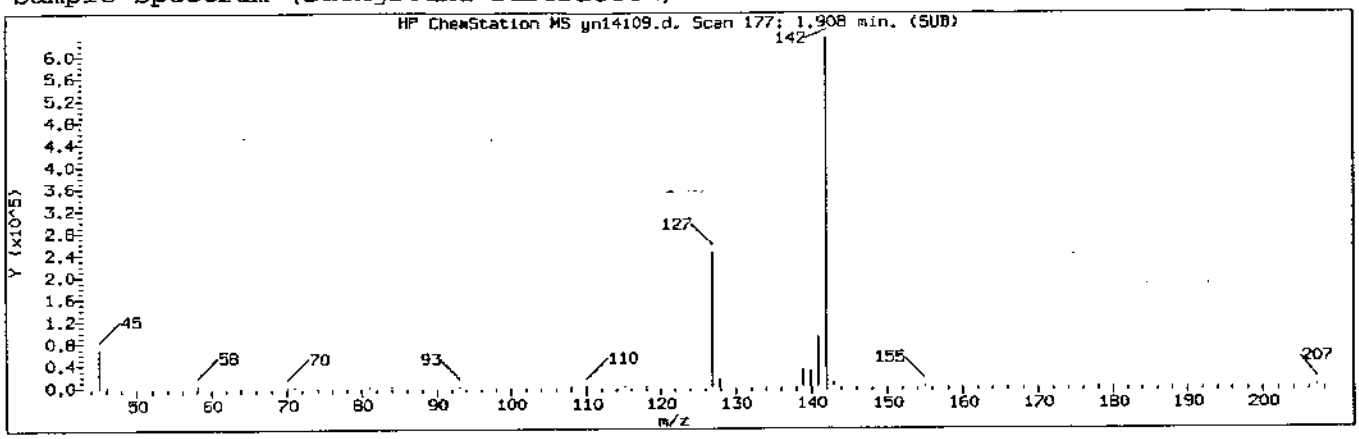
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 118		
Retention Time (minutes)	: 1.549		
Quant Ion	: 101.00		
Area	: 2446487		
On-column Amount (ng)	: 245.5279		
Integration start scan	: 92	Integration stop scan:	197
Y at integration start	: 0	Y at integration end:	0

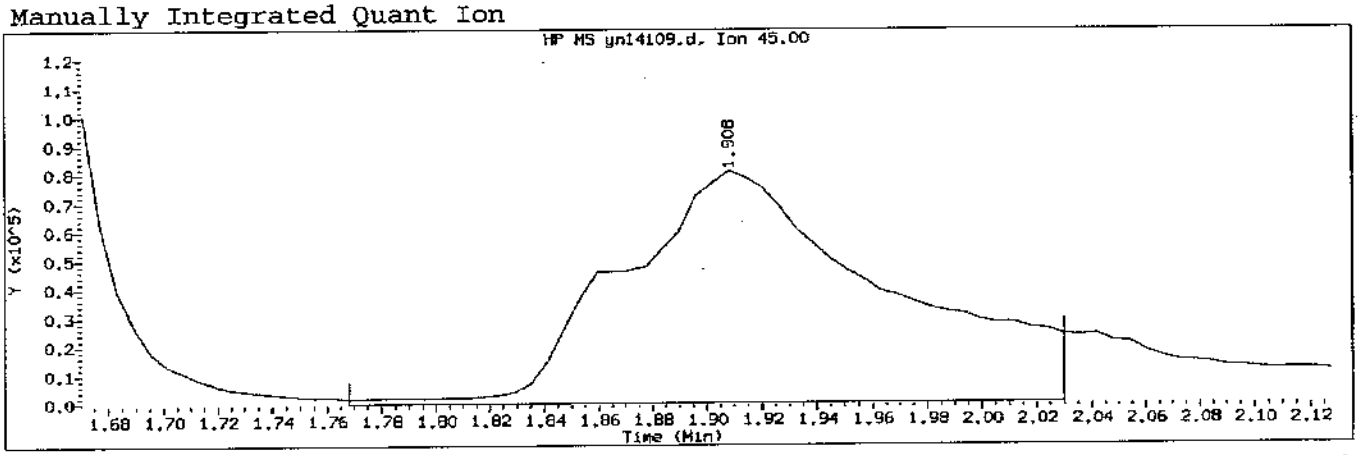
PCH09 0167

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100 Lab Sample ID: VSTD100

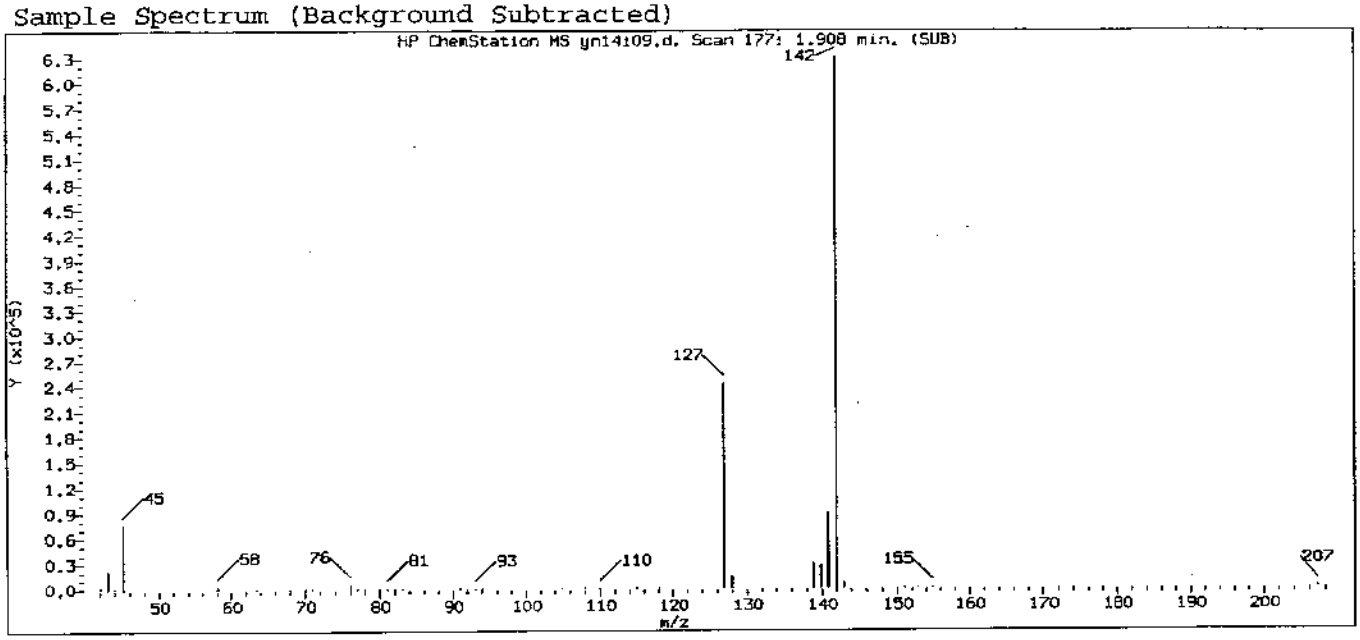
Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 177		
Retention Time (minutes)	: 1.908		
Quant Ion	: 45.00		
Area (flag)	: 542698M		
On-Column Amount (ng)	: 400.1535		
Integration start scan	: 153	Integration stop scan:	196
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

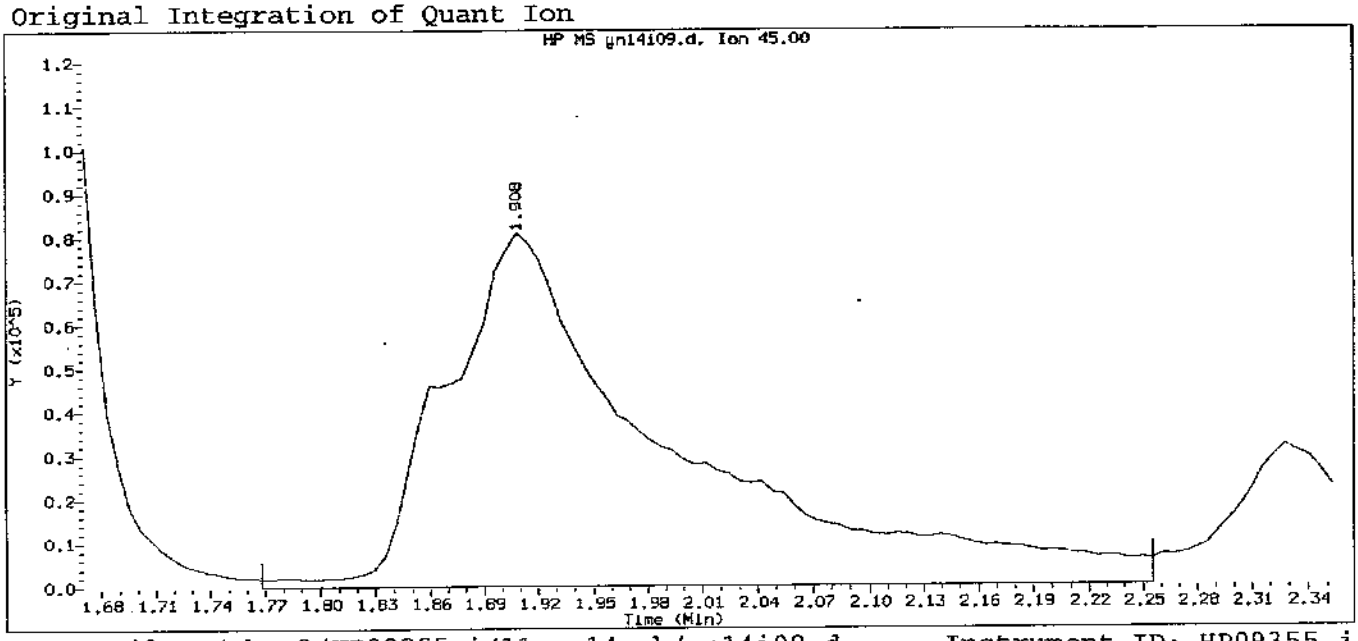
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8168

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

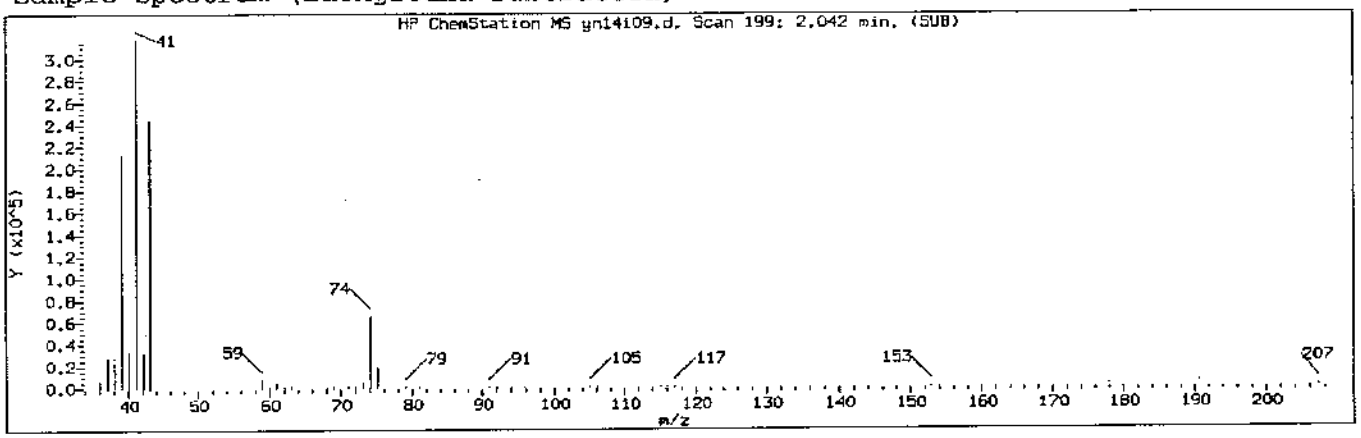
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 177		
Retention Time (minutes)	: 1.908		
Quant Ion	: 45.00		
Area	: 695278		
On-column Amount (ng)	: 655.7306		
Integration start scan	: 153	Integration stop scan:	233
Y at integration start	: 0	Y at integration end:	0

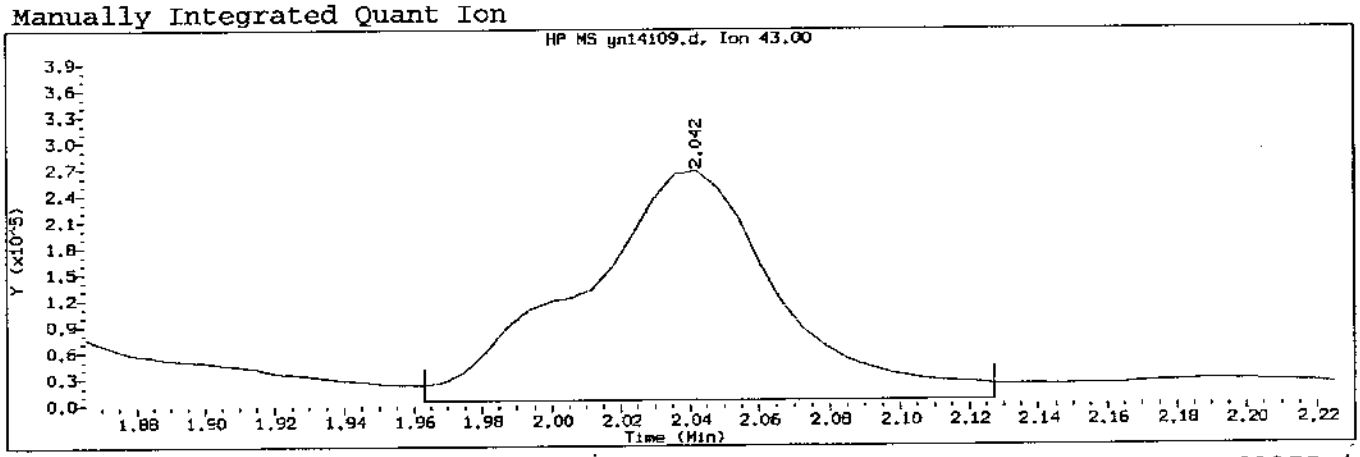
PCH09 0169

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100 Lab Sample ID: VSTD100

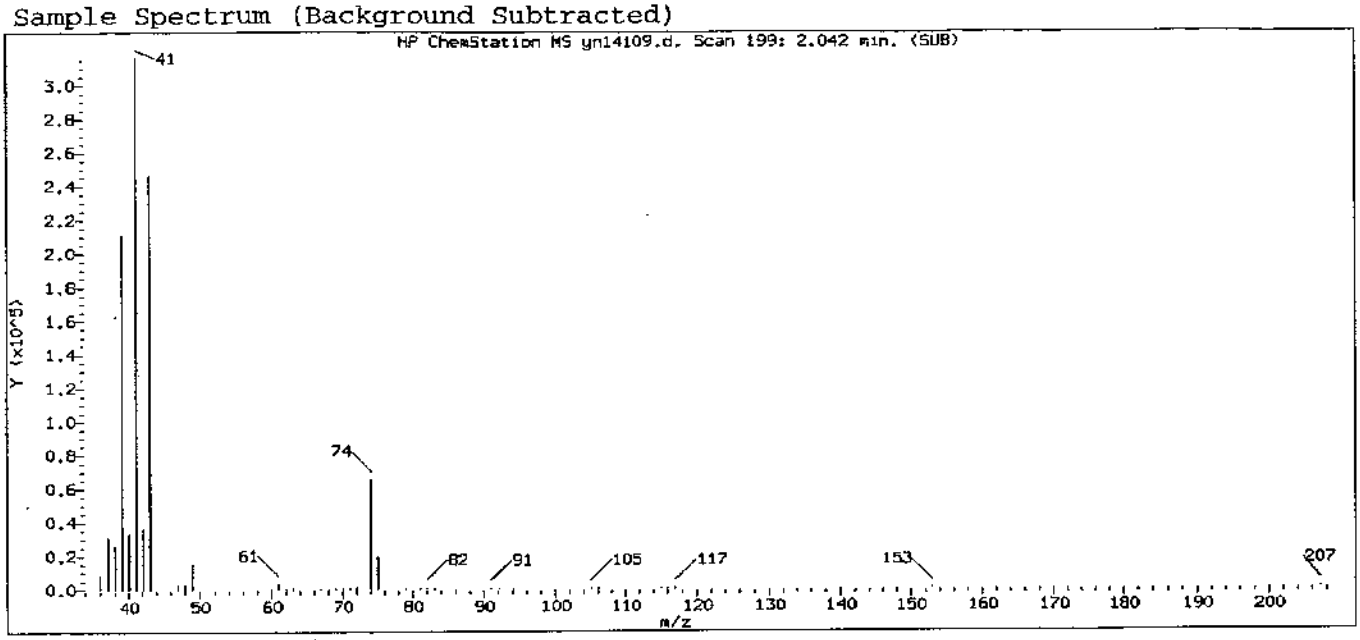
Compound Number	: 25		
Compound Name	: Methyl Acetate		
Scan Number	: 199		
Retention Time (minutes)	: 2.042		
Quant Ion	: 43.00		
Area (flag)	: 1043609M		
On-Column Amount (ng)	: 96.9259		
Integration start scan	: 185	Integration stop scan:	212
Y at integration start	: 4037	Y at integration end:	4037

Reason for manual integration: improper integration

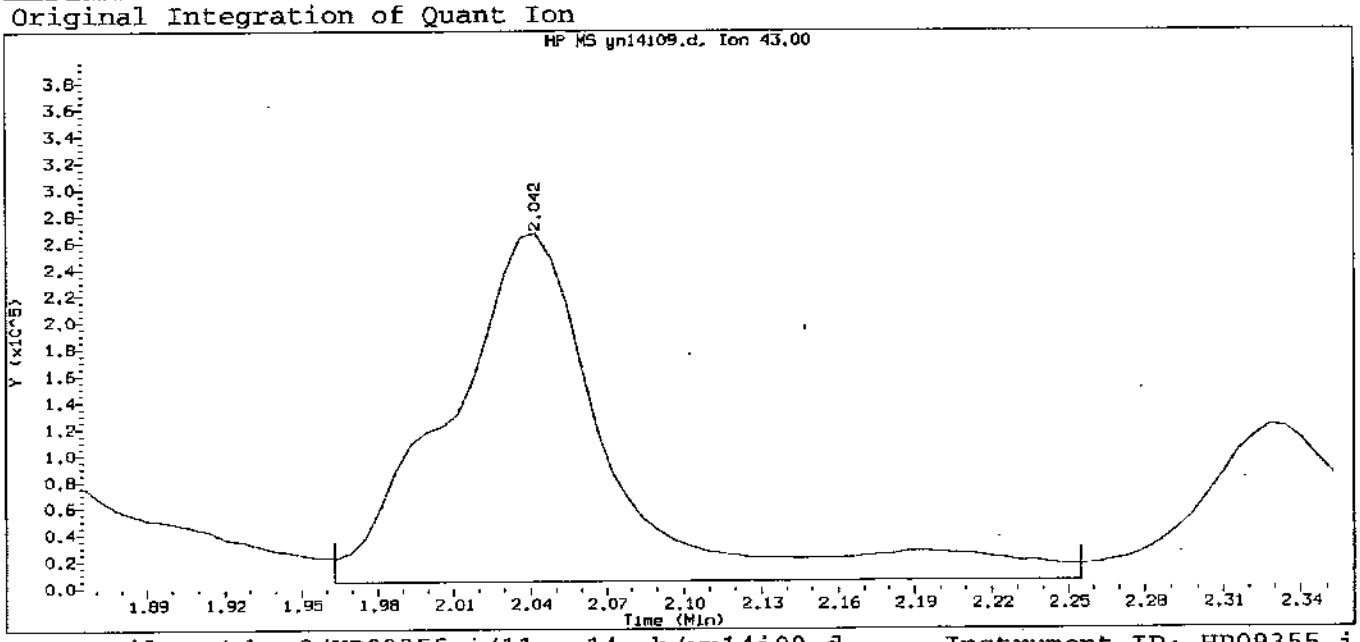
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 8170

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

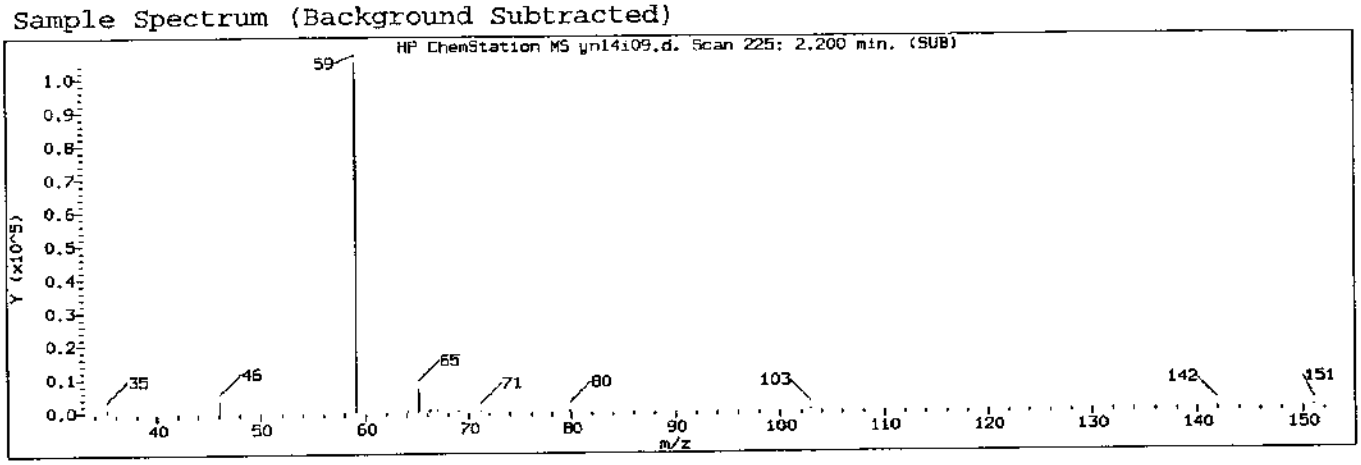
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 25		
Compound Name	: Methyl Acetate		
Scan Number	: 199		
Retention Time (minutes)	: 2.042		
Quant Ion	: 43.00		
Area	: 1175777		
On-column Amount (ng)	: 107.2787		
Integration start scan	: 185	Integration stop scan:	233
Y at integration start	: 4037	Y at integration end:	4037

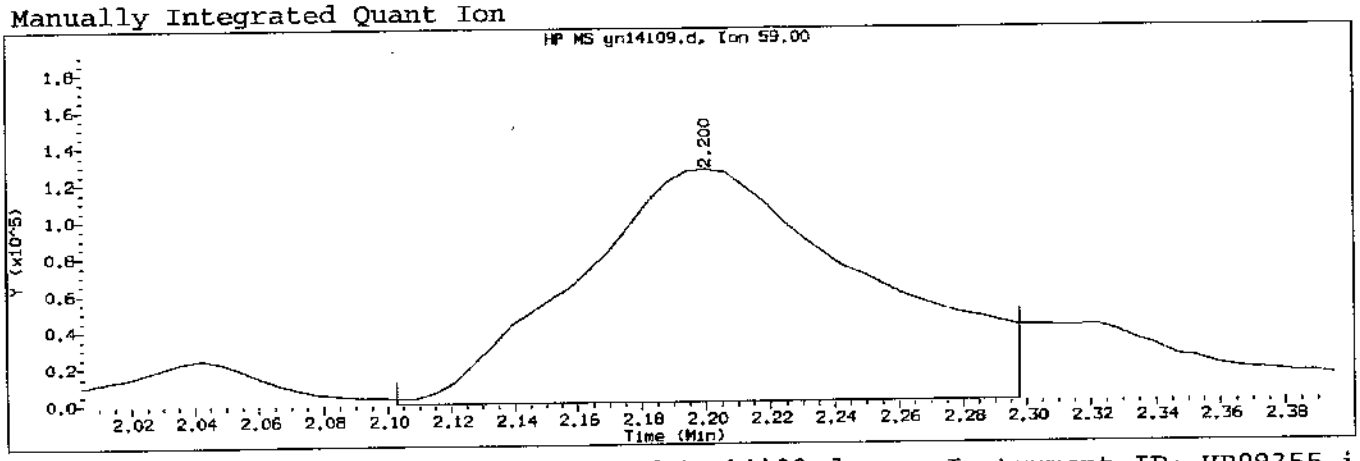
PCH09 8171

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100 Lab Sample ID: VSTD100

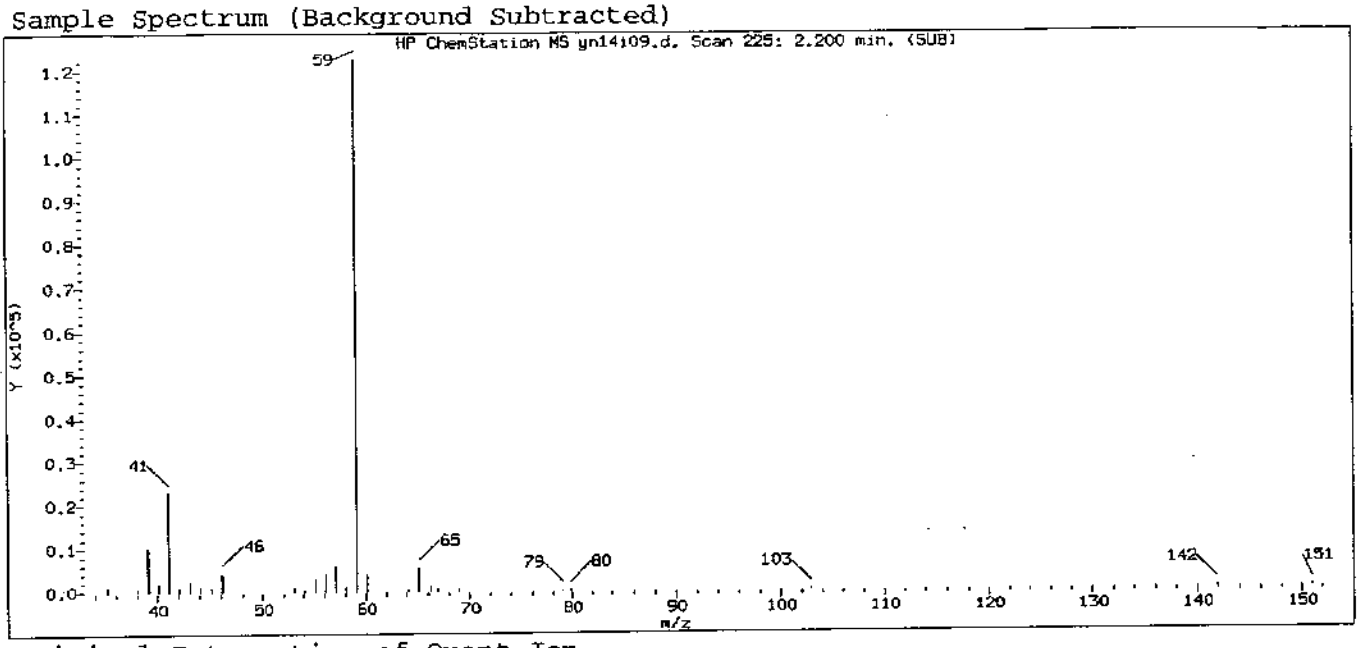
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 225		
Retention Time (minutes)	: 2.200		
Quant Ion	: 59.00		
Area (flag)	: 797541M		
On-Column Amount (ng)	: 426.1113		
Integration start scan	: 208	Integration stop scan:	240
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

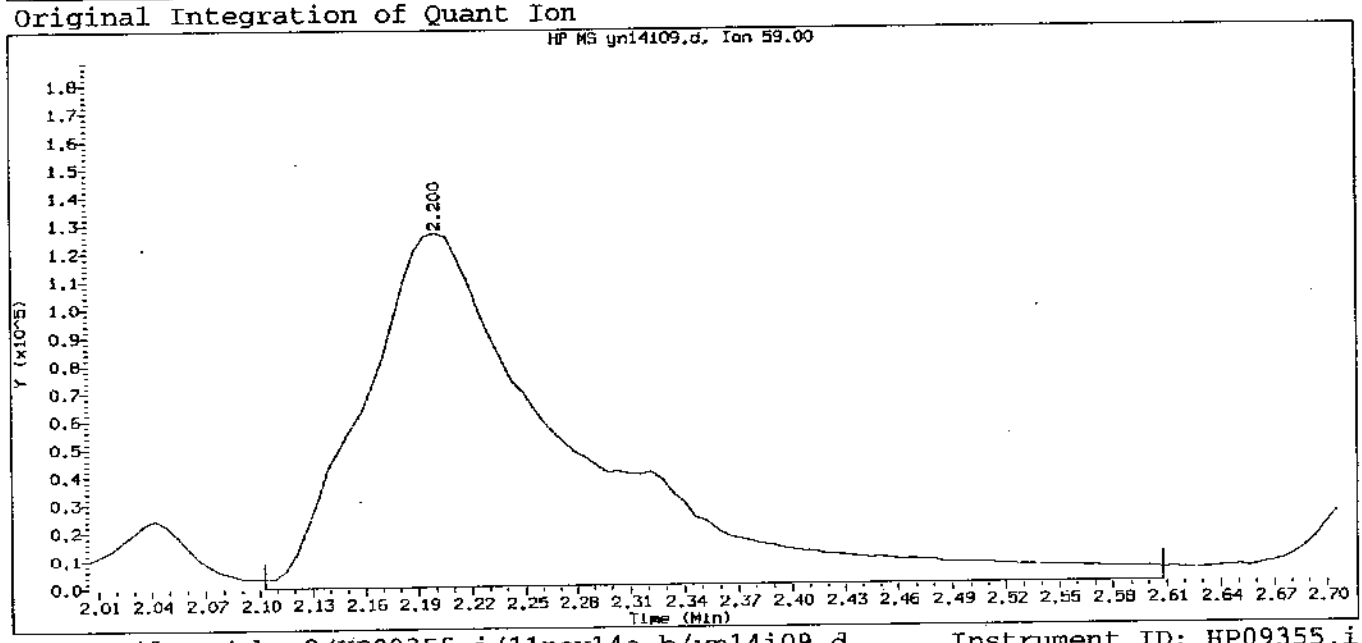
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 #172

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

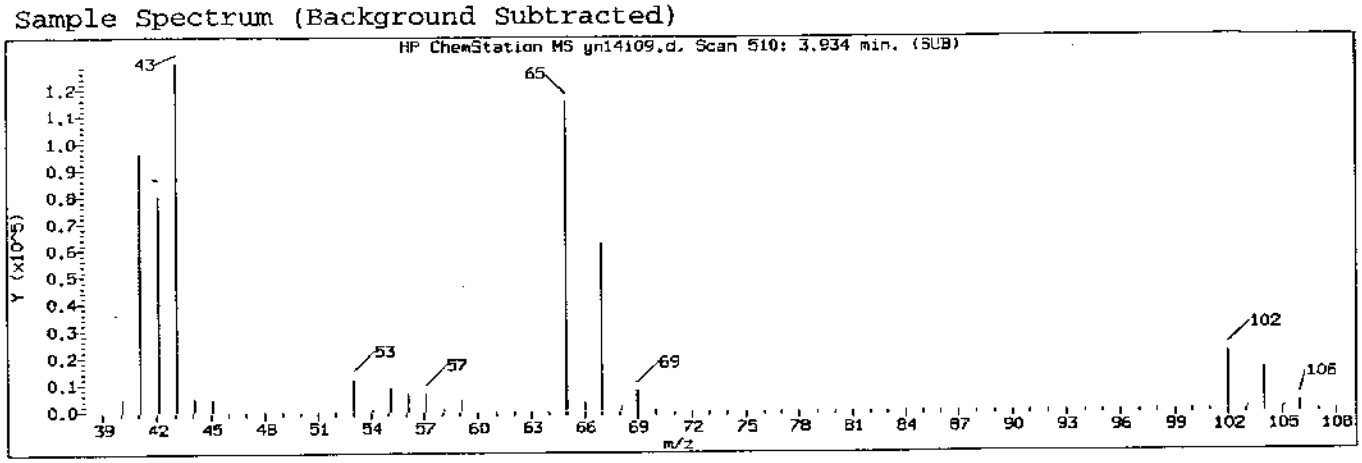
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 225		
Retention Time (minutes)	: 2.200		
Quant Ion	: 59.00		
Area	: 1045809		
On-column Amount (ng)	: 1068.4150		
Integration start scan	: 208	Integration stop scan:	291
Y at integration start	: 0	Y at integration end:	0

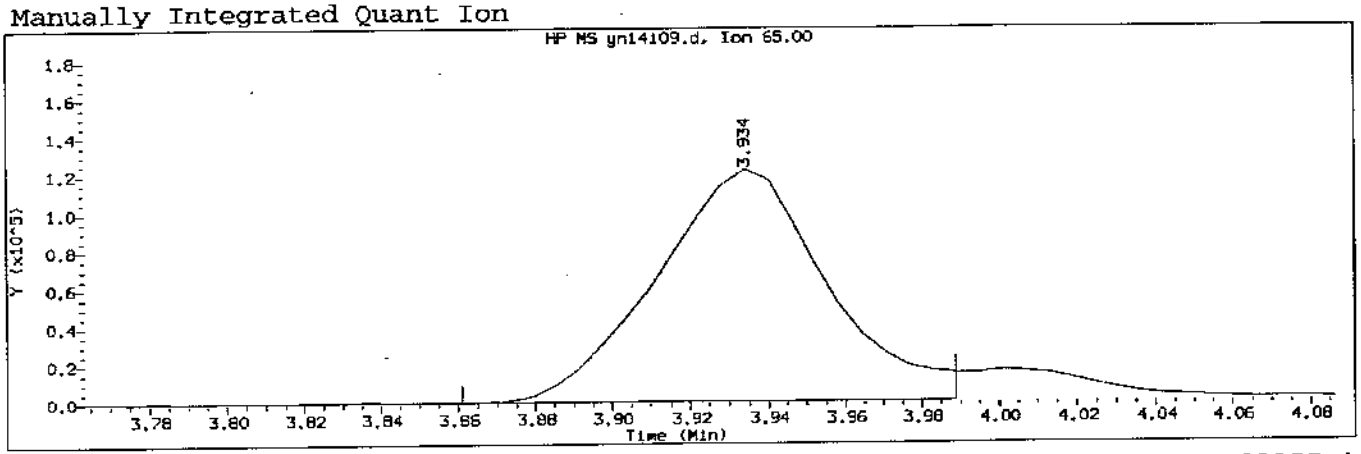
PCH09 8173

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD100 Lab Sample ID: VSTD100

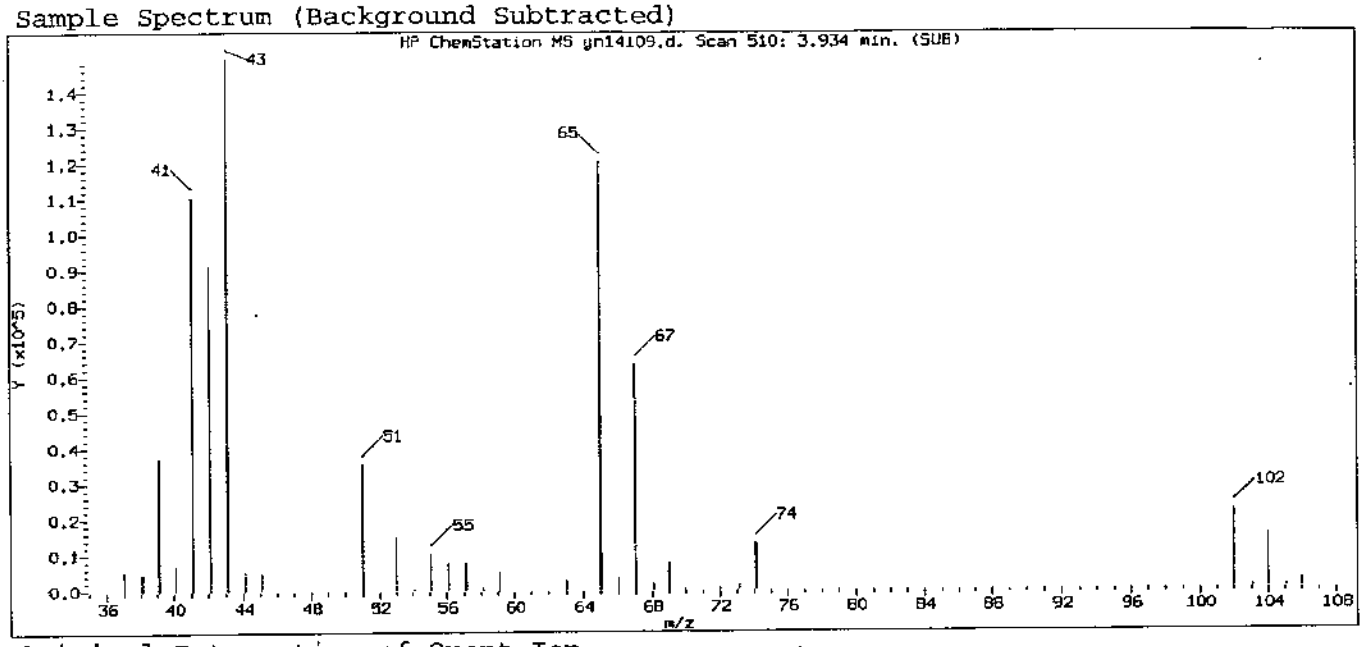
Compound Number	: 61		
Compound Name	: 1,2-Dichloroethane-d4(mz65)		
Scan Number	: 510		
Retention Time (minutes)	: 3.934		
Quant Ion	: 65.00		
Area (flag)	: 374725M		
On-Column Amount (ng)	: 50.4245		
Integration start scan	: 497	Integration stop scan:	518
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

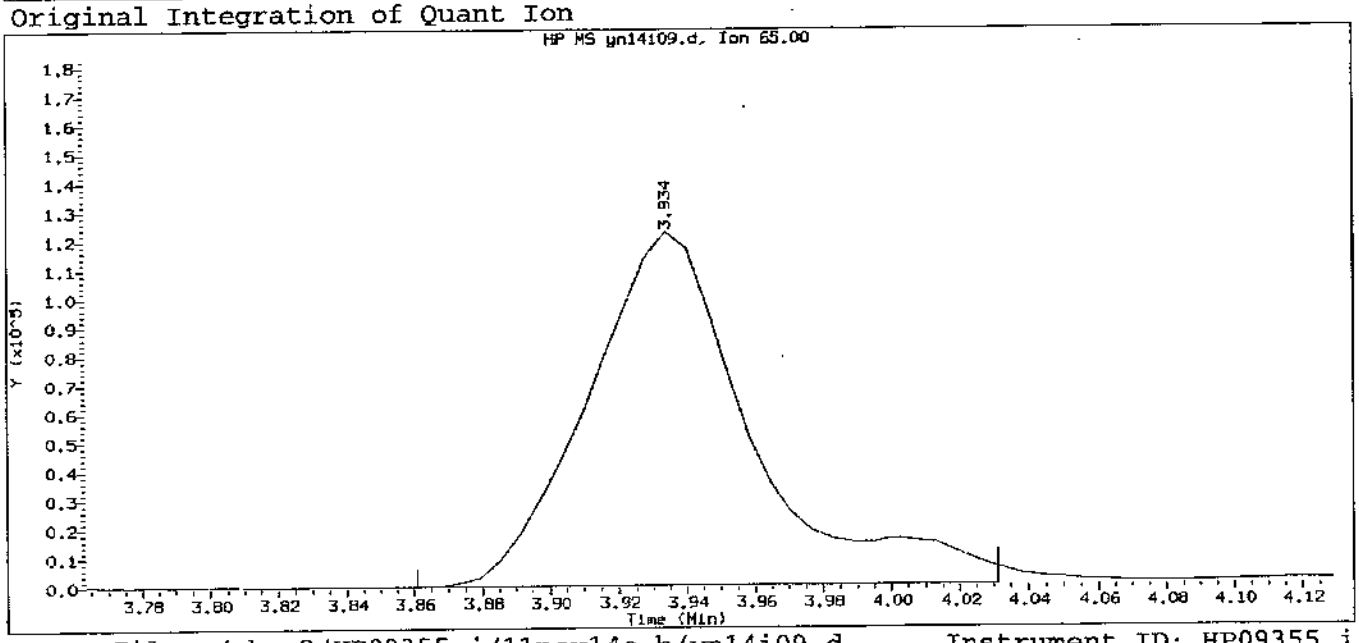
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8174

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i09.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:08 Analyst ID: NRR01826

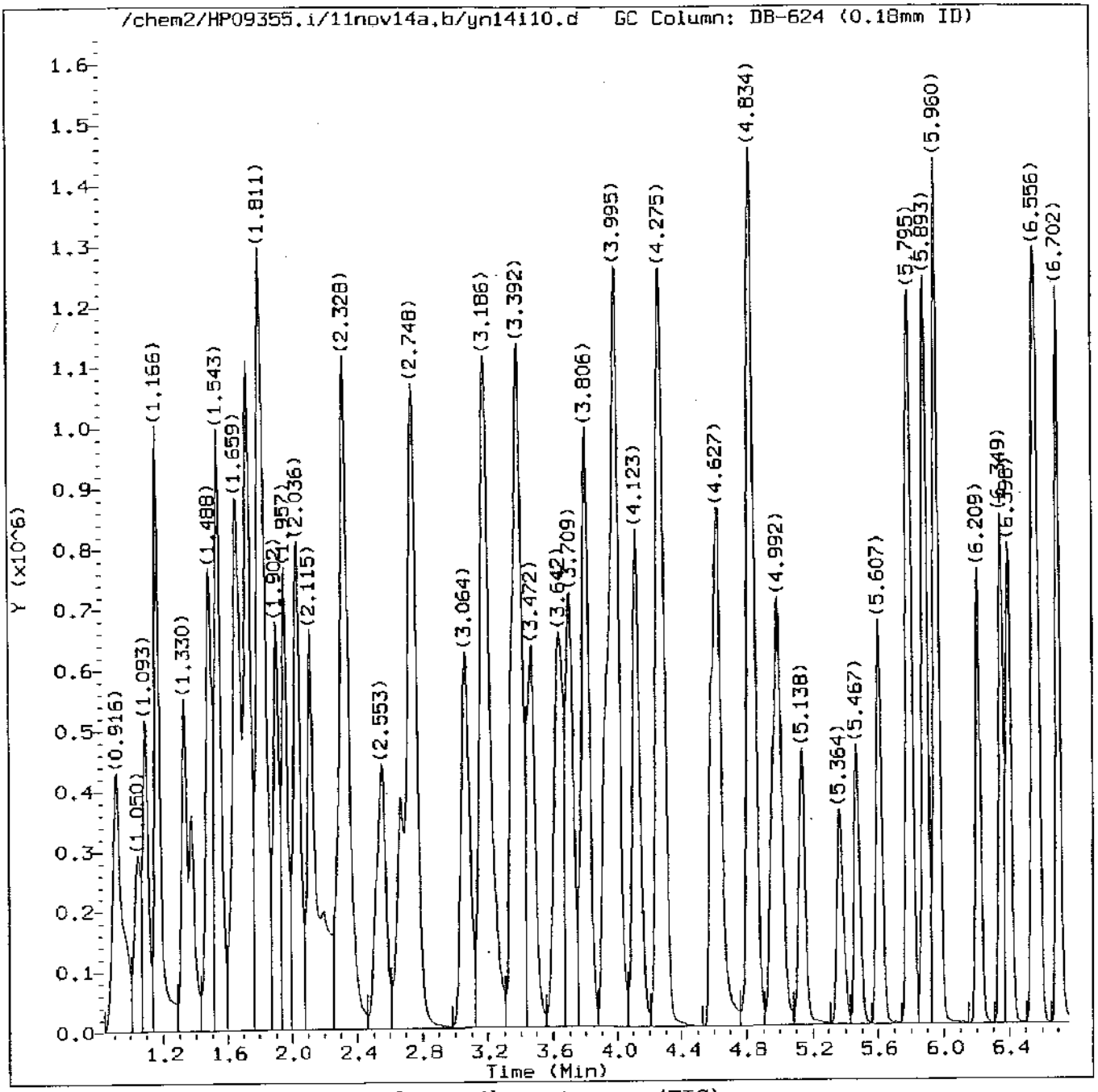
Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 61		
Compound Name	: 1,2-Dichloroethane-d4(mz65)		
Scan Number	: 510		
Retention Time (minutes)	: 3.934		
Quant Ion	: 65.00		
Area	: 405084		
On-column Amount (ng)	: 52.9084		
Integration start scan	: 497	Integration stop scan:	525
Y at integration start	: 0	Y at integration end:	0

PCH09 8175

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d
Injection date and time: 14-NOV-2011 15:29

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:12

Sublist used: 8260WI

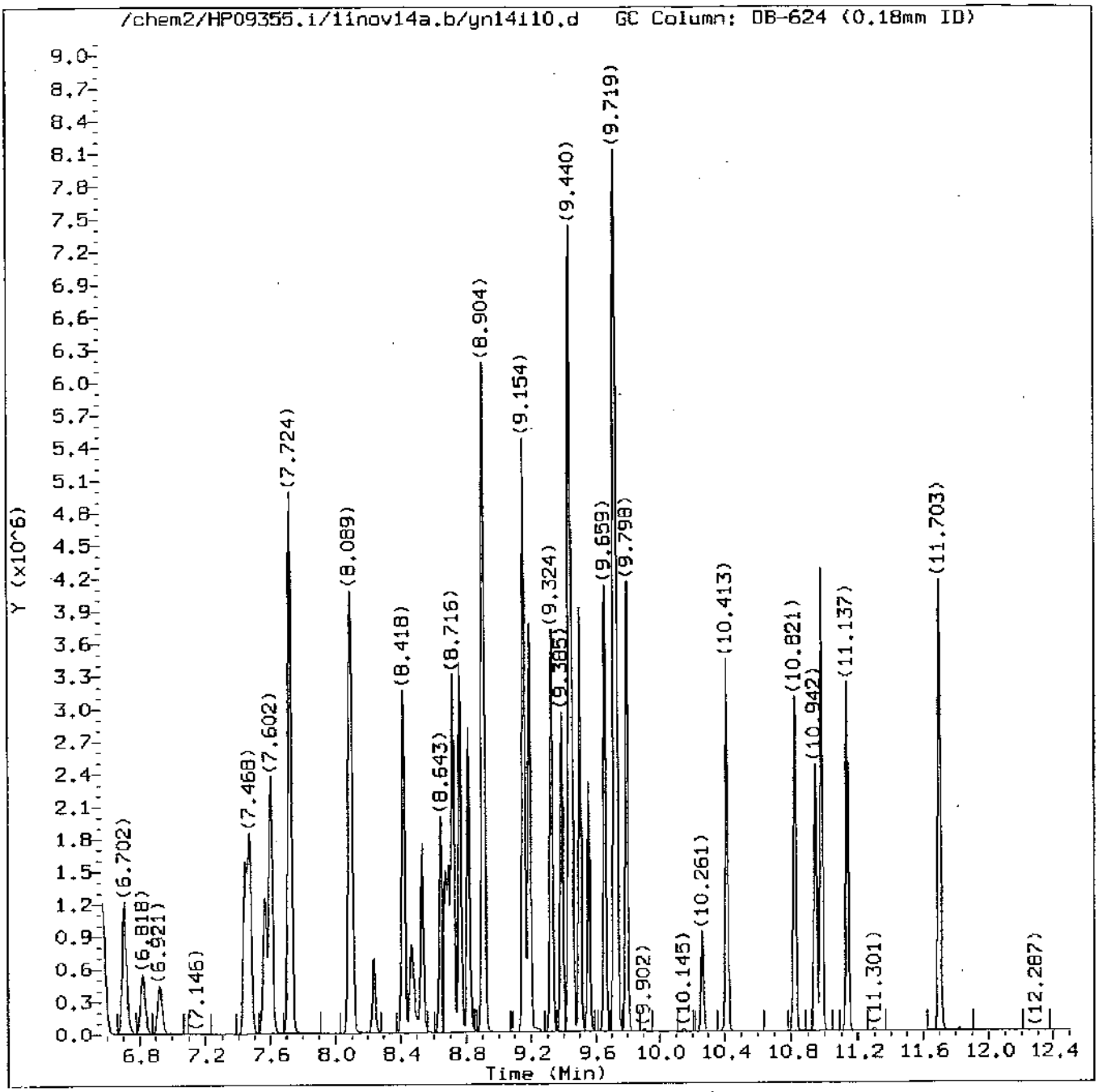
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050

Lab Sample ID: VSTD050

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

PCH09 8175



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

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on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

PCH89 8177

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d
Injection date and time: 14-NOV-2011 15:29

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sublist used: 8260WI

Sample Name: VSTD050

Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.050	85	593973	49.575
3) Chloromethane	(1)	1.099	50	536759M	48.714
5) Vinyl Chloride	(1)	1.166	62	537152	48.646
4) 1,3-Butadiene	(1)	1.166	39	257678M	46.931
7) Bromomethane	(1)	1.330	94	417929	50.098
8) Chloroethane	(1)	1.373	64	315325	50.144
9) Dichlorofluoromethane	(1)	1.482	67	787621	48.771
11) n-Pentane	(1)	1.543	43	559976M	52.463
10) Trichlorofluoromethane	(1)	1.549	101	769953M	39.295
13) Ethyl Ether	(1)	1.659	59	334696	50.068
14) Freon 123a	(1)	1.665	67	478592	47.973
15) Acrolein	(4)	1.732	56	1531020	486.716
16) 1,1-Dichloroethene	(1)	1.805	96	384554	49.134
18) Freon 113	(1)	1.823	101	415937	50.632
17) Acetone	(1)	1.823	58	165055	93.072
20) Methyl Iodide	(1)	1.902	142	778361	48.838
21) 2-Propanol	(4)	1.914	45	304023M	232.551
22) Carbon Disulfide	(1)	1.957	76	1121350	49.269
24) Allyl Chloride	(1)	2.030	41	536237	48.589
25) Methyl Acetate	(1)	2.042	43	490239M	46.125
26) Methylene Chloride	(1)	2.115	84	323922	48.445
28)*t-Butyl Alcohol-d10	(4)	2.145	65	392612	250.000
29) t-Butyl Alcohol	(4)	2.200	59	420671M	233.161
30) Acrylonitrile	(1)	2.291	53	225702	46.593
31) trans-1,2-Dichloroethene	(1)	2.328	96	313504	48.818
32) Methyl Tertiary Butyl Ether	(1)	2.334	73	1014692	48.682
33) n-Hexane	(1)	2.553	57	439648	49.631
34) 1,1-Dichloroethane	(1)	2.669	63	559394	49.709
36) di-Isopropyl Ether	(1)	2.742	45	990838	48.922
37) 2-Chloro-1,3-Butadiene	(1)	2.754	53	497501	49.517
39) Ethyl t-Butyl Ether	(1)	3.064	59	983455	49.175
41) 2-Butanone	(1)	3.161	43	627683	94.778
40) cis-1,2-Dichloroethene	(1)	3.180	96	341315	48.744
42) 2,2-Dichloropropane	(1)	3.192	77	470938	50.096
43) Propionitrile	(4)	3.204	54	454876	239.945
46) Methacrylonitrile	(1)	3.380	67	535288	119.384
47) Bromochloromethane	(1)	3.399	128	183512	48.710
48) Tetrahydrofuran	(4)	3.441	71	172962	96.645

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

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on 11/14/2011 at 20:29
Target 3.5 esignature user ID: fav02618

PCH09 0178

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Chloroform	(1)	3.478	83	553220	49.148
51)$Dibromofluoromethane(mz111)	(1)	3.624	111	288215	50.486
52)$Dibromofluoromethane	(1)	3.624	113	282587	50.422
45) 1,2-Dichloroethene (total)	(1)		96	654819	97.562
53) 1,1,1-Trichloroethane	(1)	3.648	97	534037	46.780
56) Cyclohexane	(1)	3.709	56	534716	49.923
55) Cyclohexane (mz 69)	(1)	3.709	69	166381	50.115
54) Cyclohexane (mz 84)	(1)	3.709	84	463613	49.698
57) 1,1-Dichloropropene	(1)	3.800	75	432133	48.882
58) Carbon Tetrachloride	(1)	3.806	117	444424	49.718
61)$1,2-Dichloroethane-d4(mz65)	(1)	3.934	65	372593M	50.792
60)$1,2-Dichloroethane-d4(mz104)	(1)	3.934	104	44389	50.984
62)$1,2-Dichloroethane-d4	(1)	3.940	102	69185M	50.319
59) Isobutyl Alcohol	(4)	3.946	41	344020	589.872
63) Benzene	(1)	3.995	78	1248045	48.594
64) 1,2-Dichloroethane (mz 98)	(1)	4.007	98	40532	49.019
65) 1,2-Dichloroethane	(1)	4.007	62	494244	48.631
69) t-Amyl Methyl Ether	(1)	4.123	73	919166	46.767
71)*Fluorobenzene	(1)	4.269	96	1132019	50.000
72) n-Heptane	(1)	4.287	43	470654	46.806
73) n-Butanol	(4)	4.585	56	571840	1205.909
74) Trichloroethene	(1)	4.634	95	339561	49.002
75) Methylcyclohexane (mz98)	(1)	4.828	98	261864	49.147
76) Methylcyclohexane	(1)	4.828	83	564221	49.218
77) 1,2-Dichloropropane	(1)	4.846	63	328025	48.951
78) Dibromomethane	(1)	4.962	93	228166	48.734
79) 1,4-Dioxane	(4)	4.986	88	92664	600.167
80) Methyl Methacrylate	(1)	4.992	69	333274	48.589
83) Bromodichloromethane	(1)	5.138	83	407610	50.380
85) 2-Nitropropane	(1)	5.364	41	327534	110.720
86) 2-Chloroethyl Vinyl Ether	(1)	5.467	63	268821	51.582
87) cis-1,3-Dichloropropene	(1)	5.607	75	501896	50.826
89) 4-Methyl-2-Pentanone	(1)	5.795	43	1217689	96.251
93)$Toluene-d8	(2)	5.893	98	1135487	50.225
92)$Toluene-d8(mz100)	(2)	5.893	100	731267	49.704
94) Toluene	(2)	5.960	92	816242	48.344
95) trans-1,3-Dichloropropene	(2)	6.209	75	481167	51.016
96) Ethyl Methacrylate	(2)	6.349	69	521031	49.467

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

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on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

PCH#9 #179

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
97) 1,1,2-Trichloroethane	(2)	6.398	97	312704	48.244
98) Tetrachloroethene	(2)	6.550	166	400409	47.991
99) 1,3-Dichloropropane	(2)	6.574	76	525579	48.252
101) 2-Hexanone	(2)	6.702	43	946611	95.601
102) Dibromochloromethane	(2)	6.818	129	341521	50.997
104) 1,2-Dibromoethane	(2)	6.921	107	348855	49.128
106)*Chlorobenzene-d5	(2)	7.444	117	857062	50.000
107) Chlorobenzene	(2)	7.475	112	958357	48.543
108) 1,1,1,2-Tetrachloroethane	(2)	7.566	131	333566	49.969
109) Ethylbenzene	(2)	7.602	91	1620947	48.921
110) m+p-Xylene	(2)	7.724	106	1343828	96.238
113) o-Xylene	(2)	8.089	106	670705	48.113
114) Styrene	(2)	8.101	104	1105862	48.644
112) Xylene (Total)	(2)		106	2014533	144.351
115) Bromoform	(2)	8.241	173	266468	50.787
116) Isopropylbenzene	(2)	8.418	105	1721565	49.366
118) Cyclohexanone	(4)	8.466	55	338222	534.169
120)$4-Bromofluorobenzene(mz174)	(2)	8.533	174	397596	50.216
119)$4-Bromofluorobenzene	(2)	8.533	95	427143	50.008
121) Bromobenzene	(3)	8.643	156	457670	49.452
122) 1,1,2,2-Tetrachloroethane	(3)	8.667	83	542166	49.556
123) 1,2,3-Trichloropropane	(3)	8.691	110	182594	49.101
124) trans-1,4-Dichloro-2-Butene	(3)	8.716	53	496537	125.115
125) n-Propylbenzene	(3)	8.758	91	1981127	51.017
126) 2-Chlorotoluene	(3)	8.813	126	422792	49.231
128) 4-Chlorotoluene	(3)	8.898	126	461412	49.300
127) 1,3,5-Trimethylbenzene	(3)	8.910	105	1559738	51.224
130) tert-Butylbenzene	(3)	9.154	134	361770	48.982
131) Pentachloroethane	(3)	9.160	167	284578	51.068
132) 1,2,4-Trimethylbenzene	(3)	9.190	105	1555260	51.129
133) sec-Butylbenzene	(3)	9.324	105	1888192	51.537
134) 1,3-Dichlorobenzene	(3)	9.385	146	889797	49.004
135) p-Isopropyltoluene	(3)	9.440	119	1820329	51.755
136)*1,4-Dichlorobenzene-d4	(3)	9.440	152	584819	50.000
138) 1,4-Dichlorobenzene	(3)	9.452	146	952513	48.894
139) 1,2,3-Trimethylbenzene	(3)	9.500	105	1599364	51.384
141) Benzyl Chloride	(3)	9.555	91	1098600	53.929
142) 1,3-Diethylbenzene	(3)	9.659	119	1001882	50.105

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

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Target 3.5 esignature user ID: fav02618

PCH69 8188

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

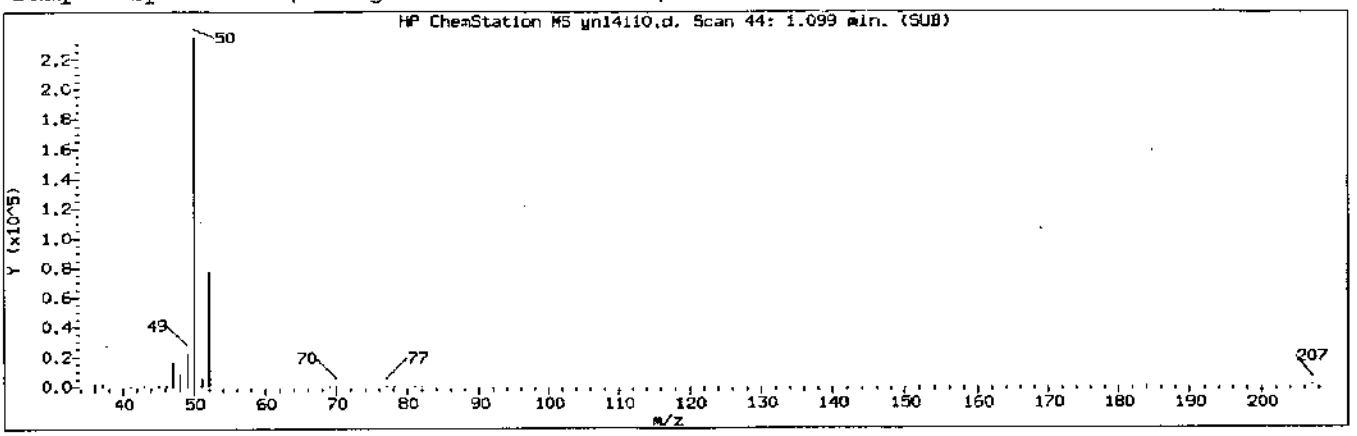
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
143) 1,4-Diethylbenzene	(3)	9.713	119	1124015	51.015
144) 1,2-Dichlorobenzene	(3)	9.719	146	967802	50.165
145) n-Butylbenzene	(3)	9.732	92	861827	50.143
146) 1,2-Diethylbenzene	(3)	9.798	119	869431	50.178
148) 1,2-Dibromo-3-Chloropropane	(3)	10.261	75	150306	51.650
149) 1,3,5-Trichlorobenzene	(3)	10.413	180	723831	49.015
150) 1,2,4-Trichlorobenzene	(3)	10.827	180	672999	49.213
151) Hexachlorobutadiene	(3)	10.942	225	324401	49.415
152) Naphthalene	(3)	10.979	128	2249457	52.059
153) 1,2,3-Trichlorobenzene	(3)	11.137	180	662892	49.114
154) 2-Methylnaphthalene	(3)	11.703	142	1415129	52.450

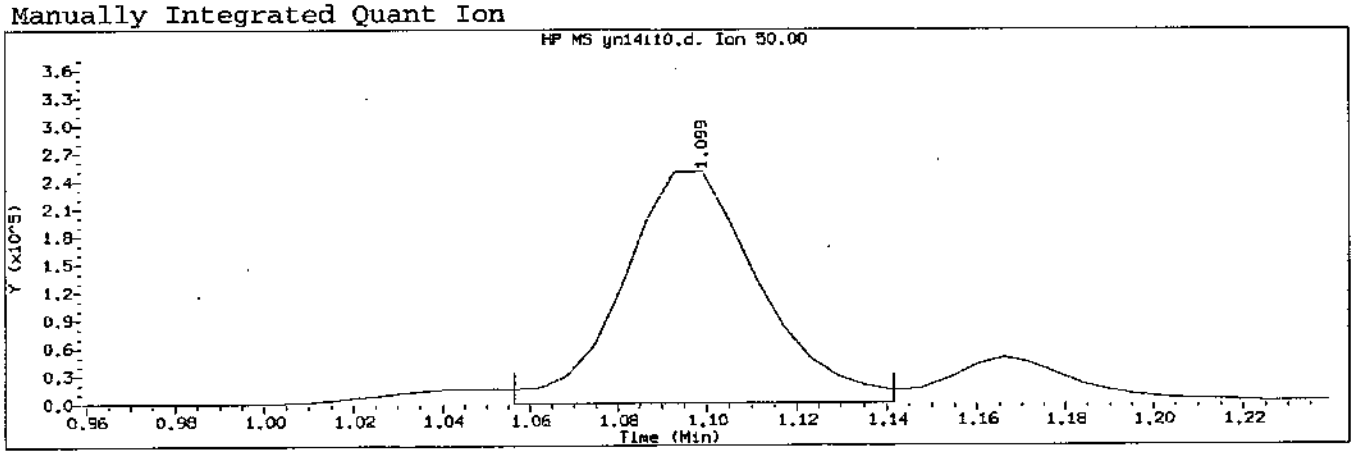
Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

PCH09 8181

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

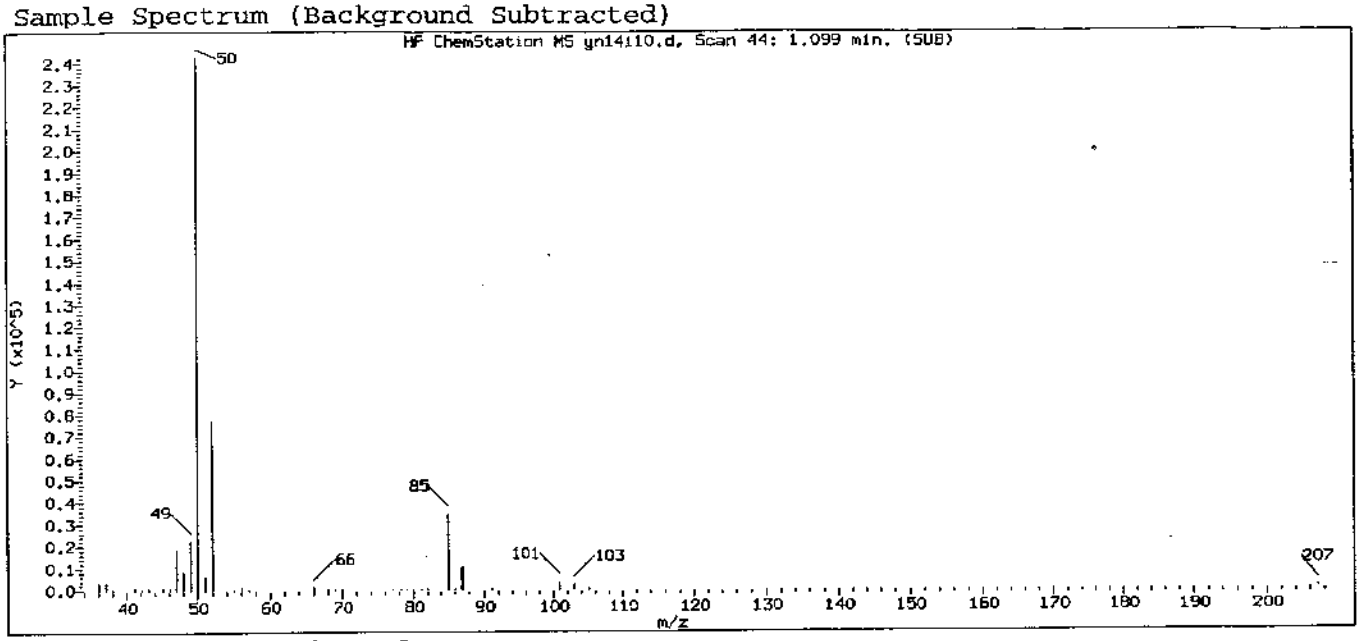
Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 44		
Retention Time (minutes)	: 1.099		
Quant Ion	: 50.00		
Area (flag)	: 536759M		
On-Column Amount (ng)	: 48.7145		
Integration start scan	: 36	Integration stop scan:	50
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

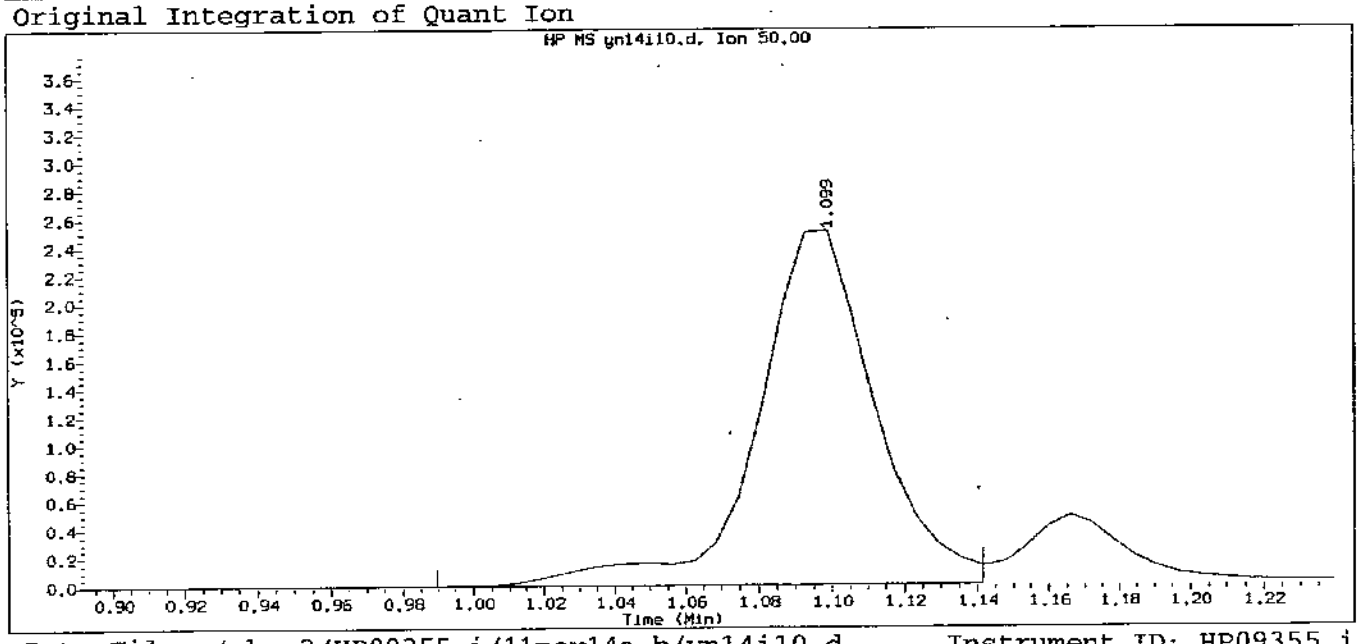
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0152

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

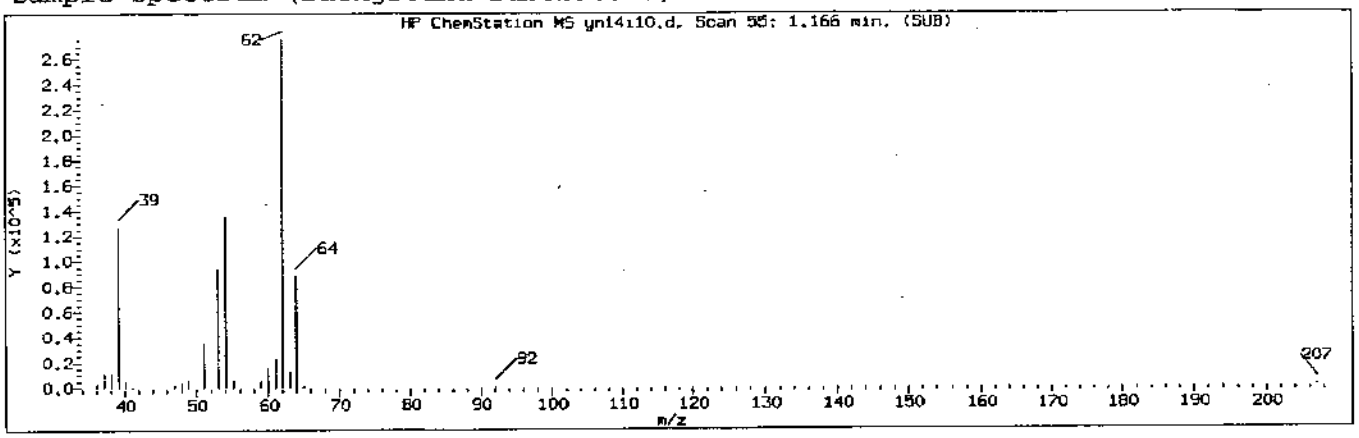
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 44		
Retention Time (minutes)	: 1.099		
Quant Ion	: 50.00		
Area	: 562642		
On-column Amount (ng)	: 52.8225		
Integration start scan	: 25	Integration stop scan:	50
Y at integration start	: 0	Y at integration end:	0

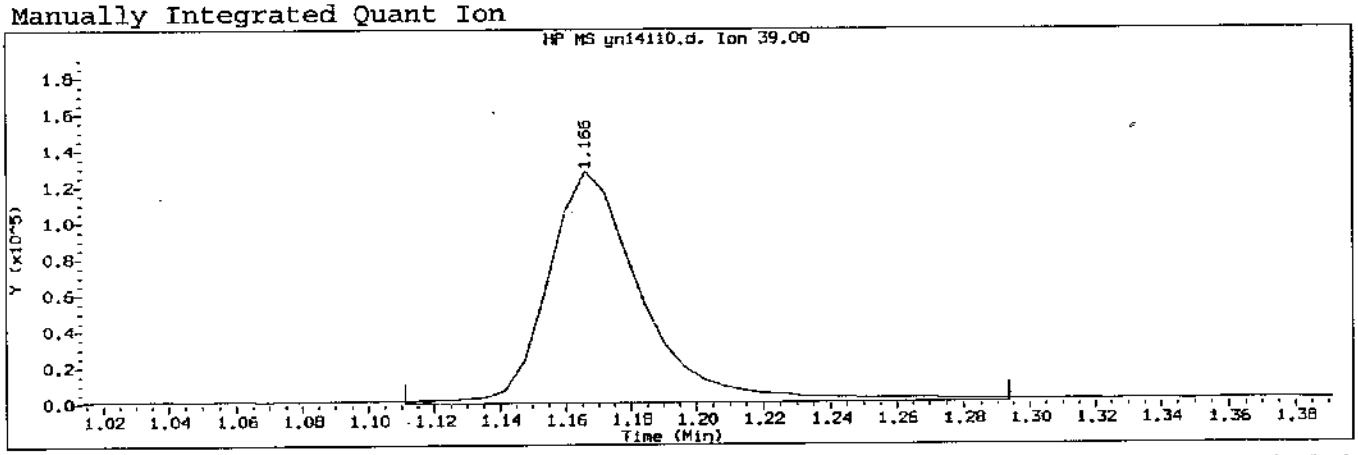
PCH89 8183

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Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

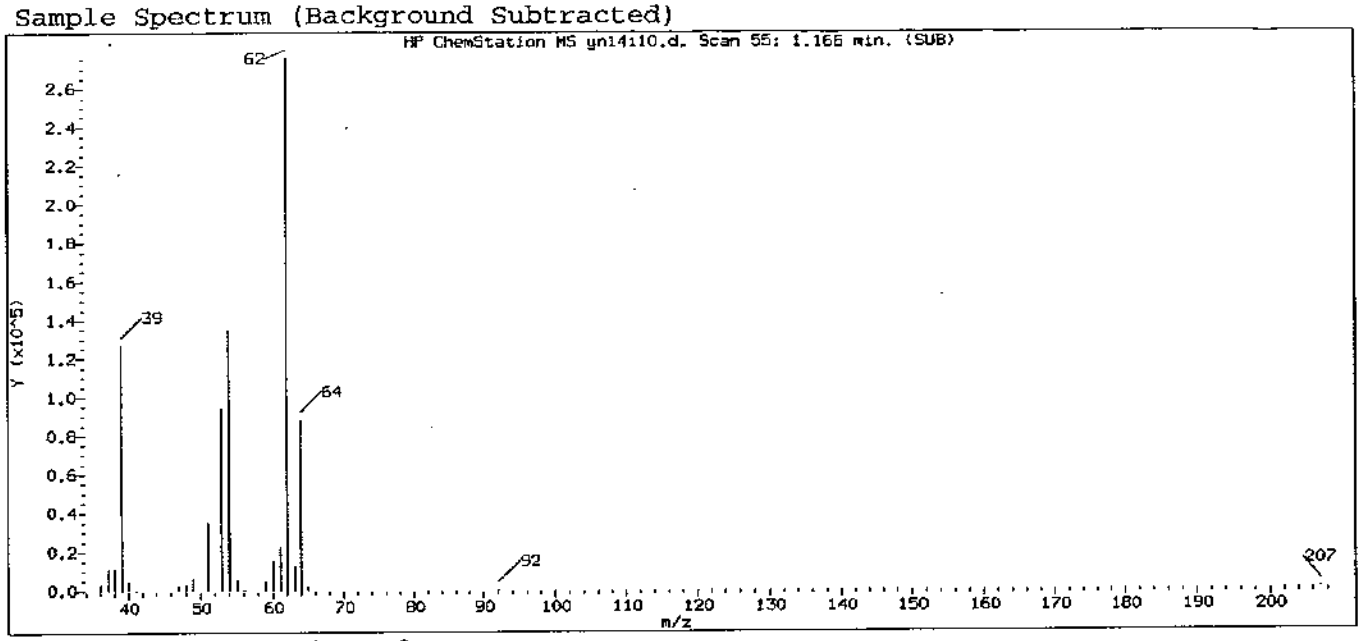
Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area (flag)	: 257678M		
On-Column Amount (ng)	: 46.9311		
Integration start scan	: 45	Integration stop scan:	75
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

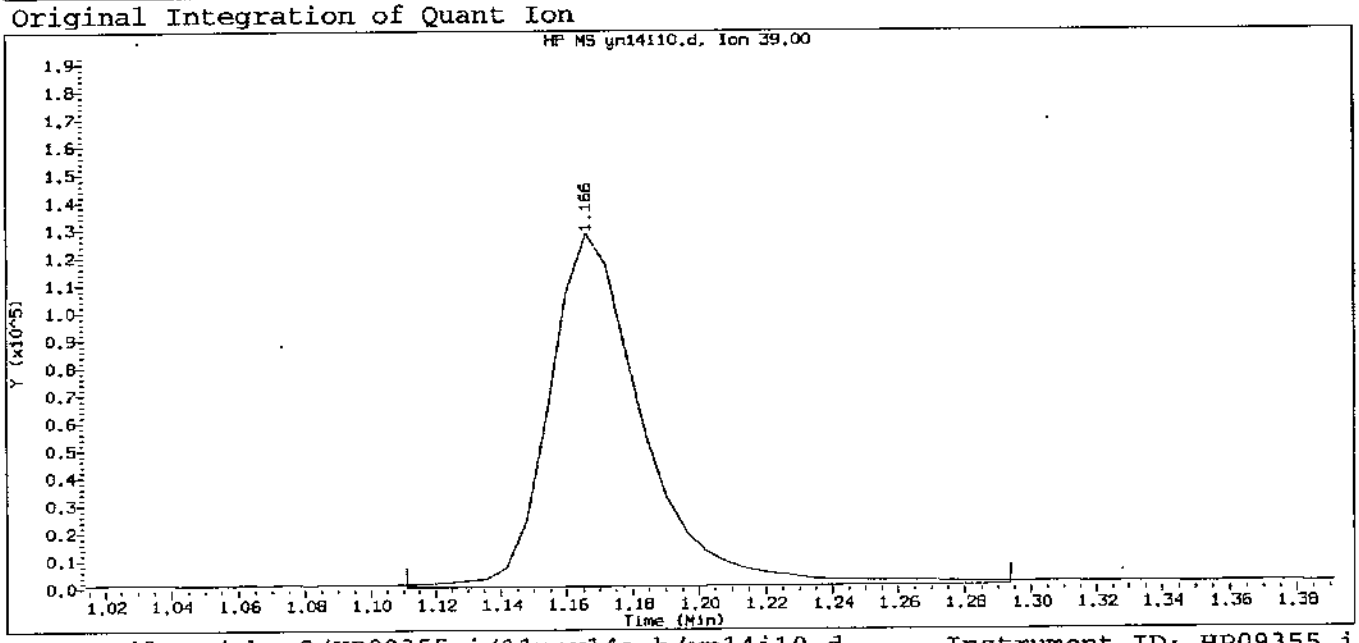
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0184

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

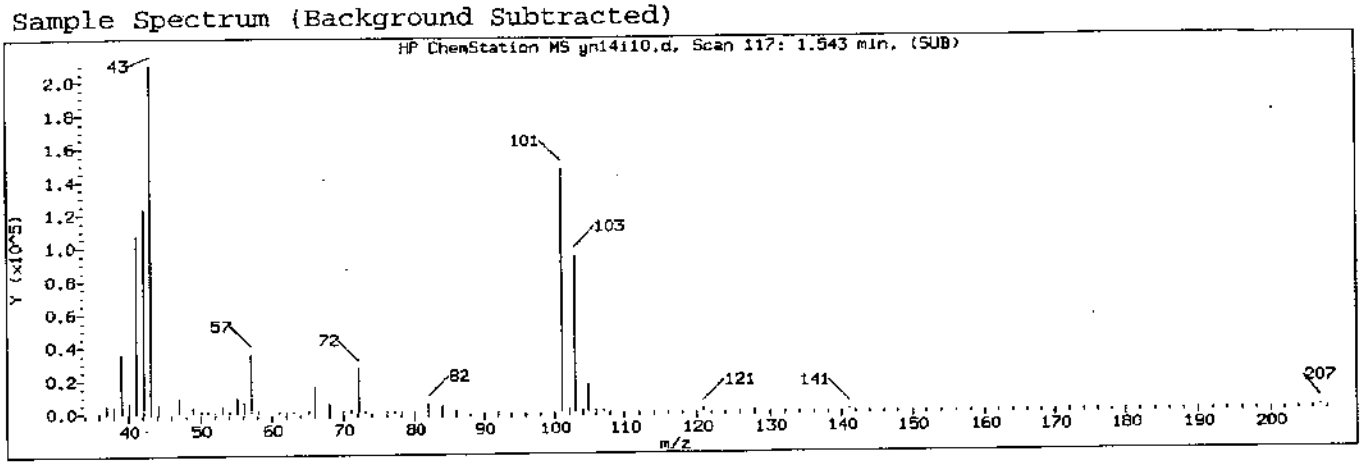
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area	: 252939		
On-column Amount (ng)	: 50.7035		
Integration start scan	: 45	Integration stop scan:	75
Y at integration start	: 290	Y at integration end:	487

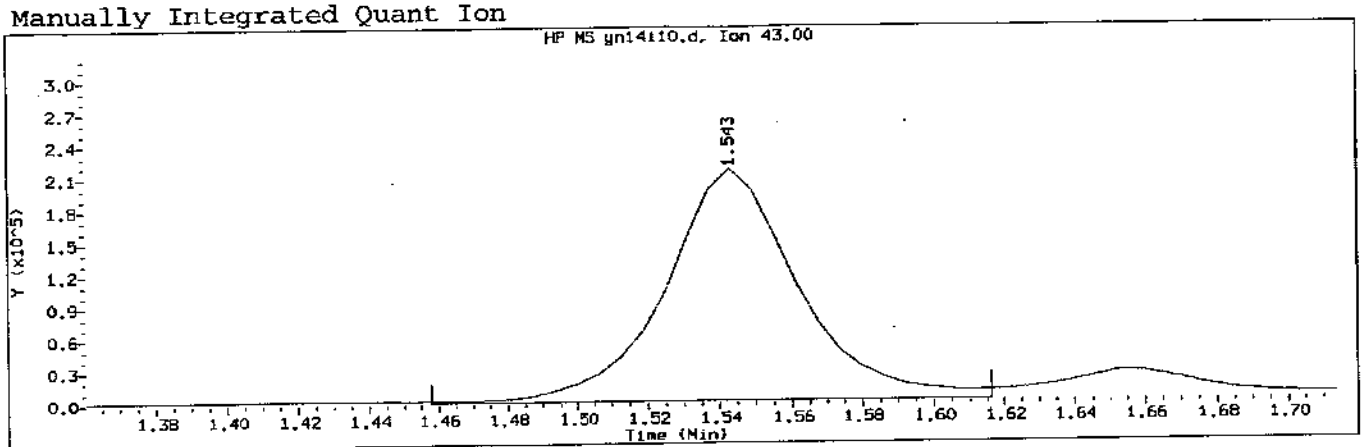
PCH09 8185

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Target 3.5 csignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

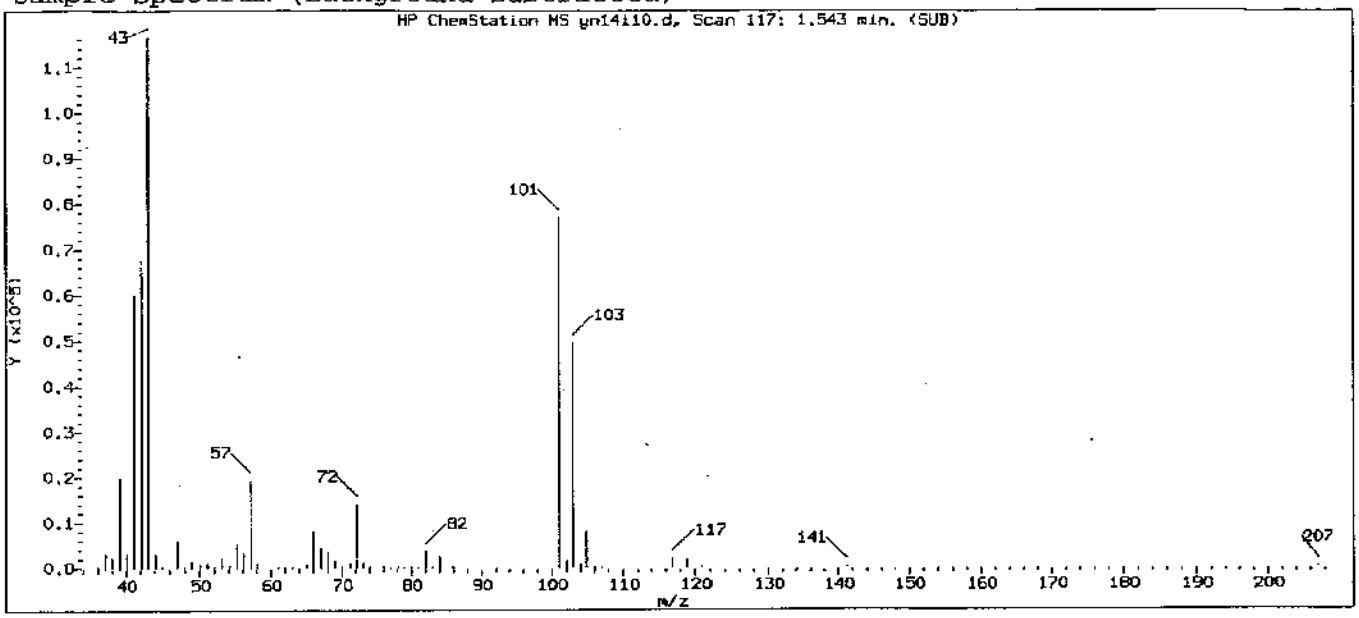
Compound Number	: 11		
Compound Name	: n-Pentane		
Scan Number	: 117		
Retention Time (minutes)	: 1.543		
Quant Ion	: 43.00		
Area (flag)	: 559976M		
On-Column Amount (ng)	: 52.4632		
Integration start scan	: 102	Integration stop scan:	128
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

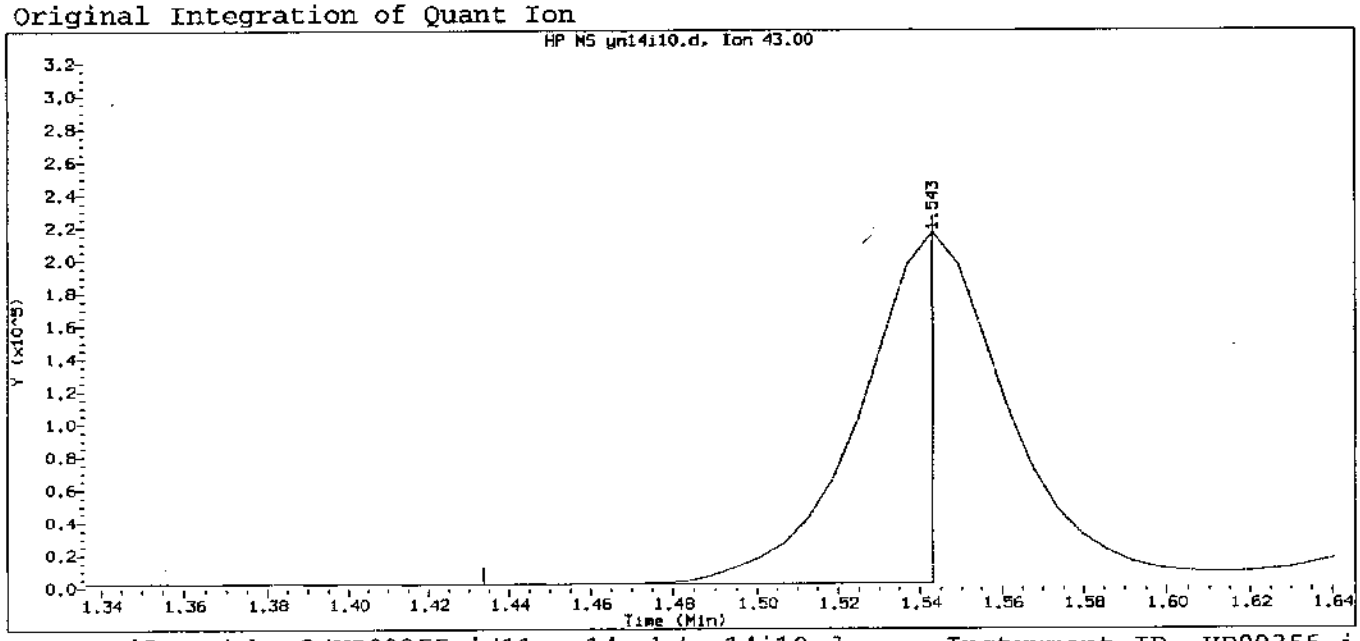
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0186

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

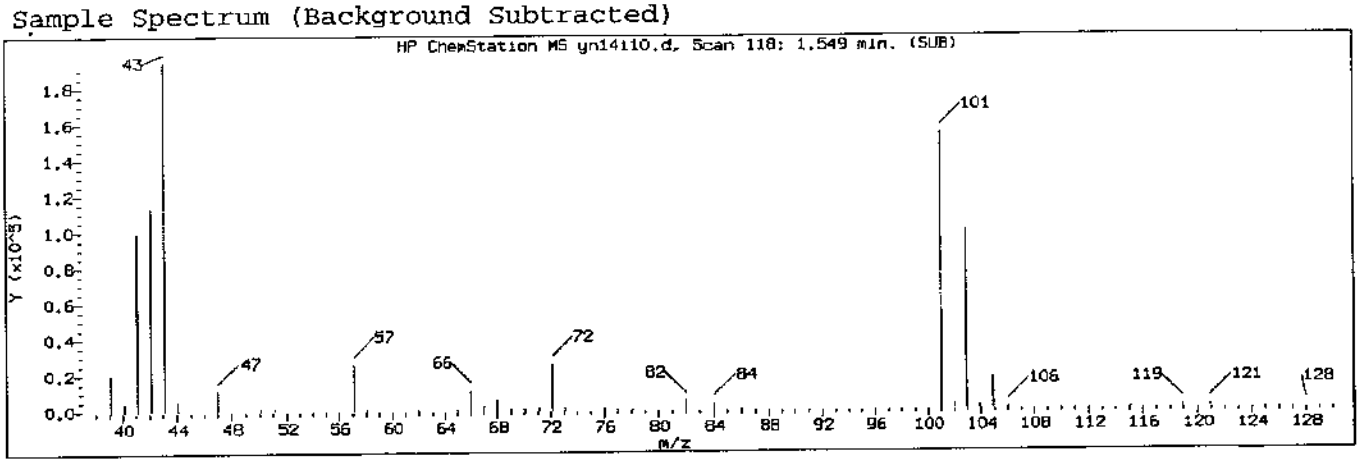
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 11		
Compound Name	: n-Pentane		
Scan Number	: 117		
Retention Time (minutes)	: 1.543		
Quant Ion	: 43.00		
Area	: 260688		
On-column Amount (ng)	: 39.5395		
Integration start scan	: 98	Integration stop scan:	116
Y at integration start	: 1795	Y at integration end:	1795

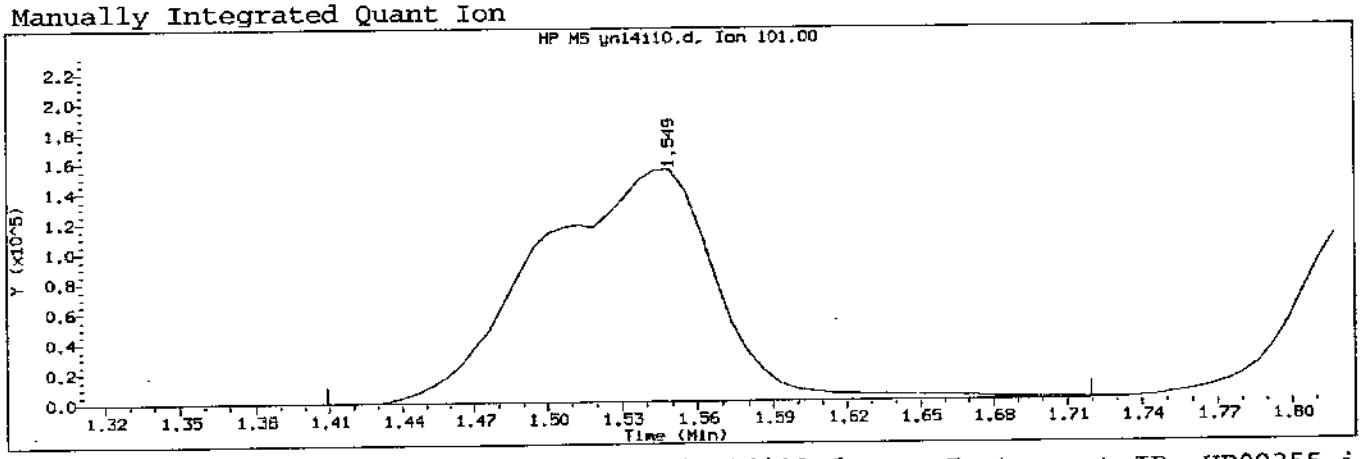
PCH09 8187

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Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

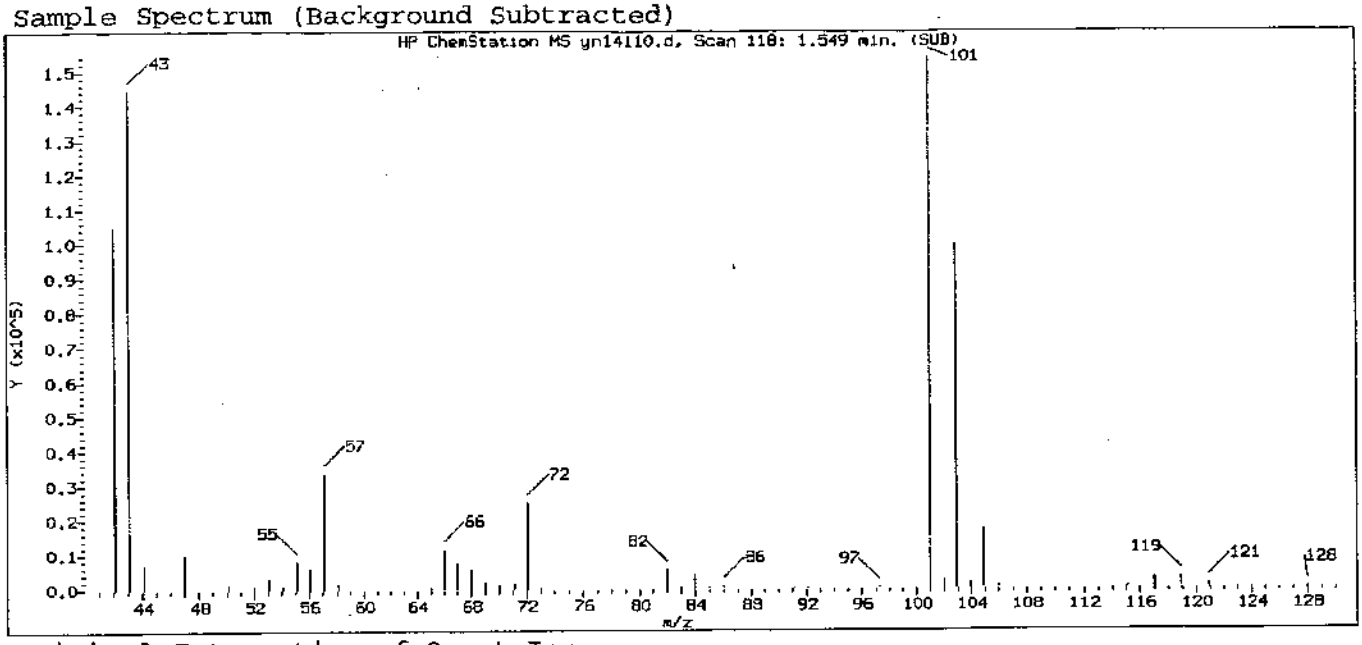
Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 118		
Retention Time (minutes)	: 1.549		
Quant Ion	: 101.00		
Area (flag)	: 769953M		
On-Column Amount (ng)	: 39.2953		
Integration start scan	: 94	Integration stop scan:	145
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

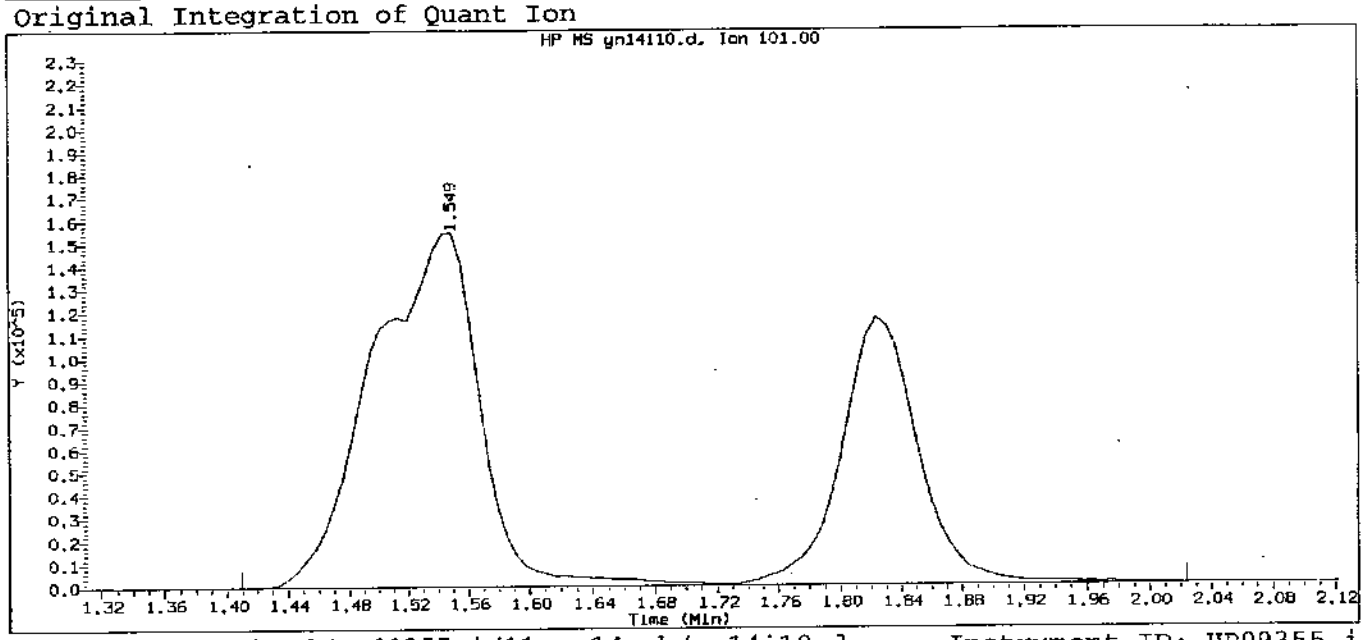
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8108

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

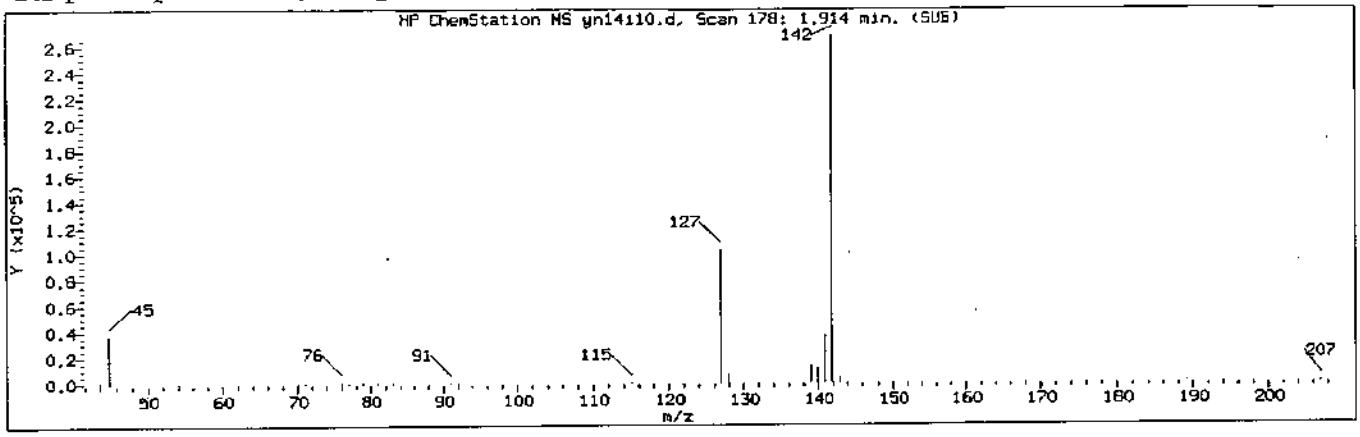
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 118		
Retention Time (minutes)	: 1.549		
Quant Ion	: 101.00		
Area	: 1182865		
On-column Amount (ng)	: 76.4496		
Integration start scan	: 94	Integration stop scan:	195
Y at integration start	: 0	Y at integration end:	0

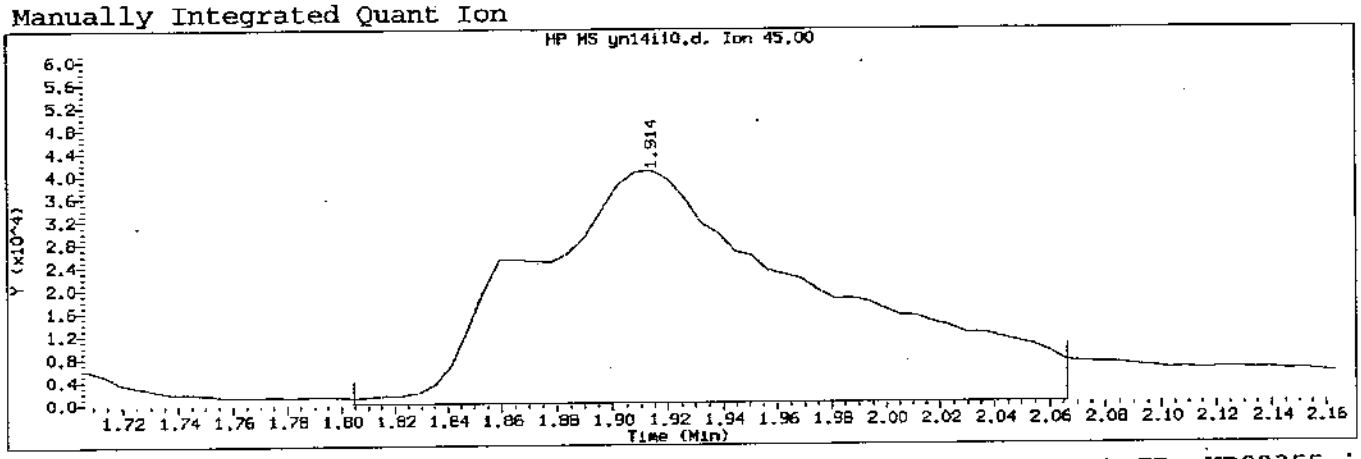
PCH89 6189

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

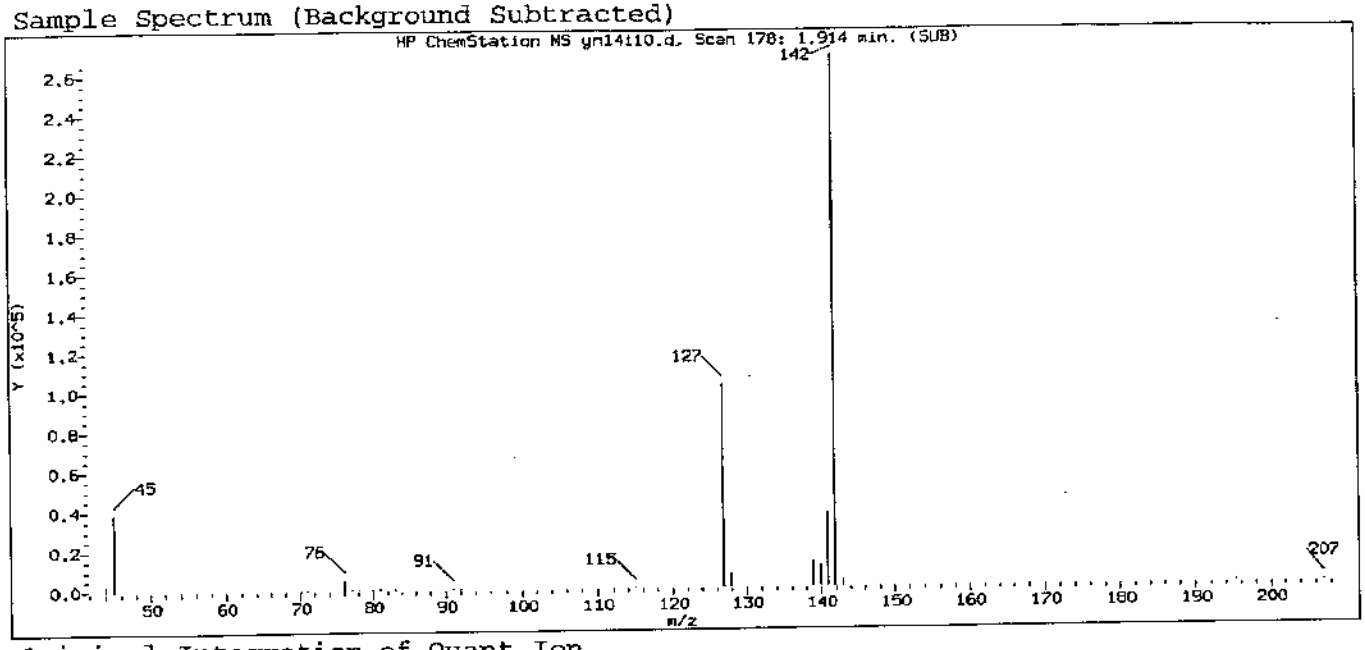
Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 178		
Retention Time (minutes)	: 1.914		
Quant Ion	: 45.00		
Area (flag)	: 304023M		
On-Column Amount (ng)	: 232.5510		
Integration start scan	: 159	Integration stop scan:	202
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

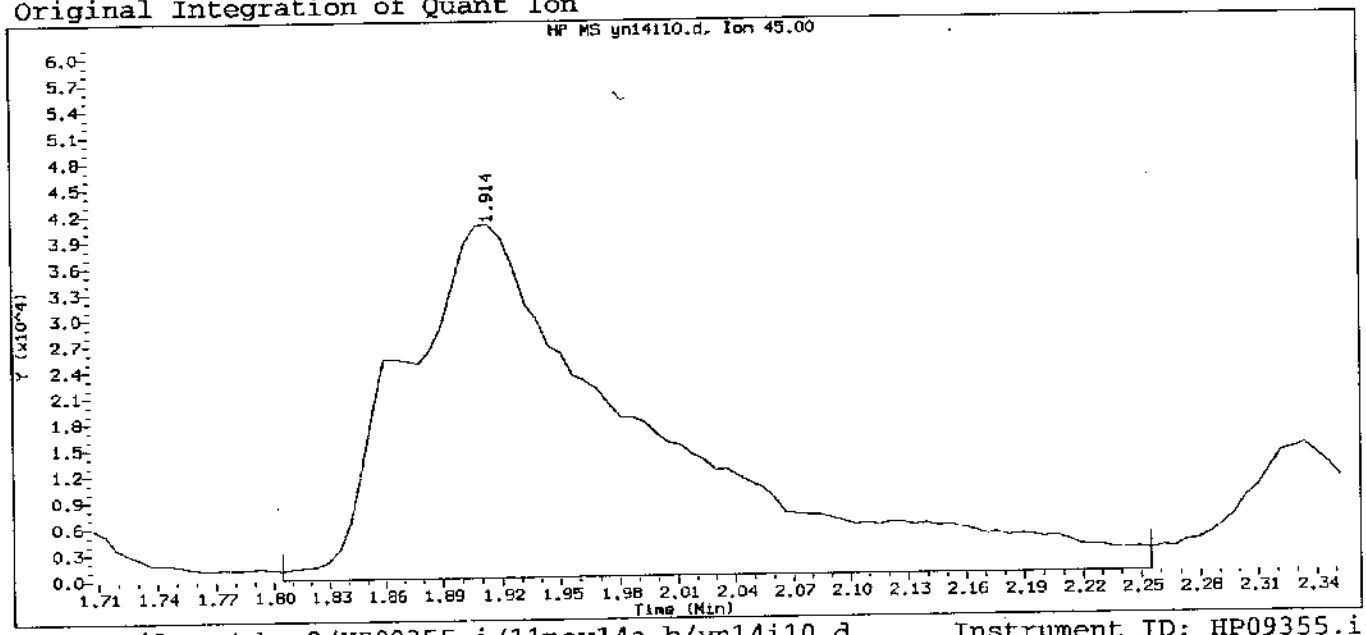
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 8196

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

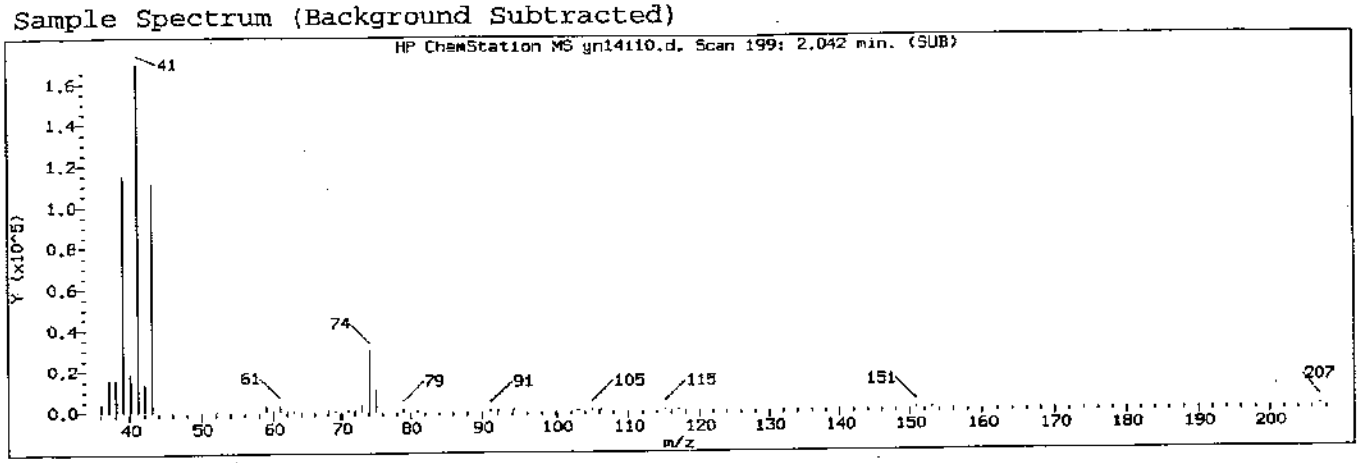
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 178		
Retention Time (minutes)	: 1.914		
Quant Ion	: 45.00		
Area	: 357075		
On-column Amount (ng)	: 313.0322		
Integration start scan	: 159	Integration stop scan:	233
Y at integration start	: 0	Y at integration end:	0

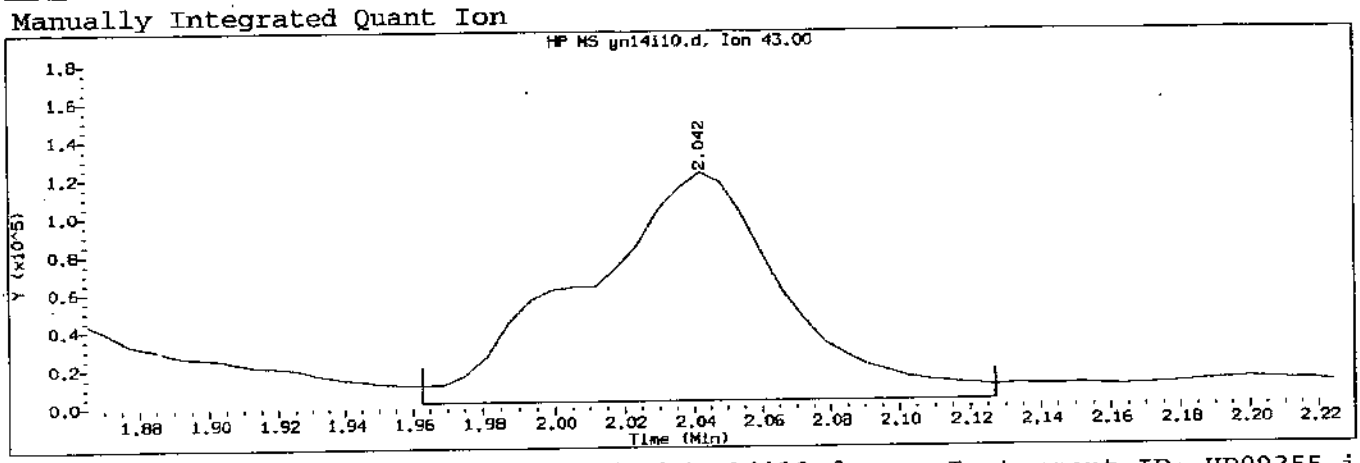
PCH09 6191

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

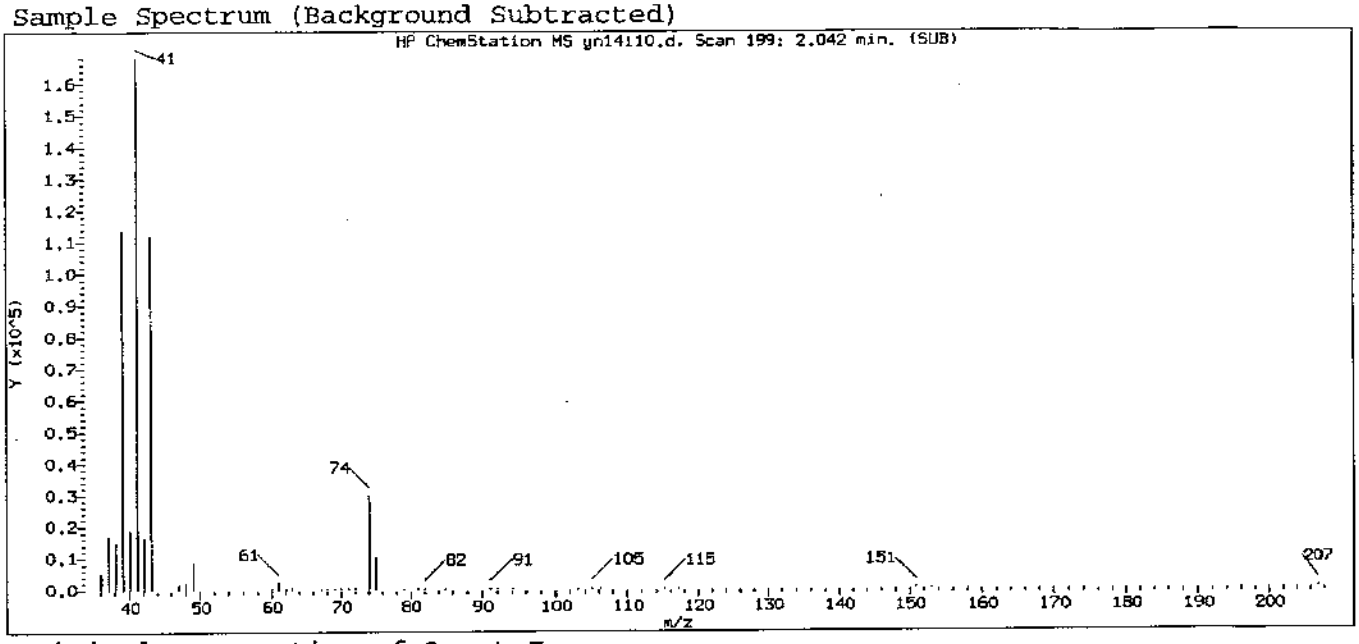
Compound Number	: 25		
Compound Name	: Methyl Acetate		
Scan Number	: 199		
Retention Time (minutes)	: 2.042		
Quant Ion	: 43.00		
Area (flag)	: 490239M		
On-Column Amount (ng)	: 46.1253		
Integration start scan	: 185	Integration stop scan:	212
Y at integration start	: 2042	Y at integration end:	2042

Reason for manual integration: improper integration

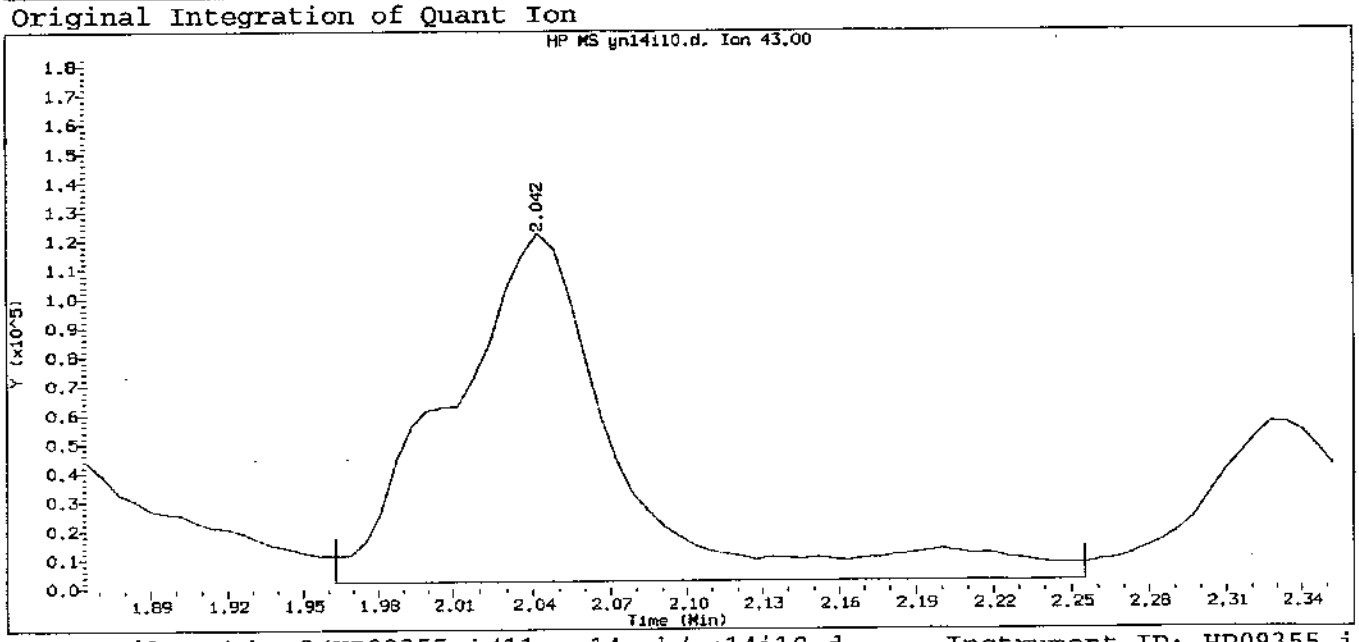
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8192

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

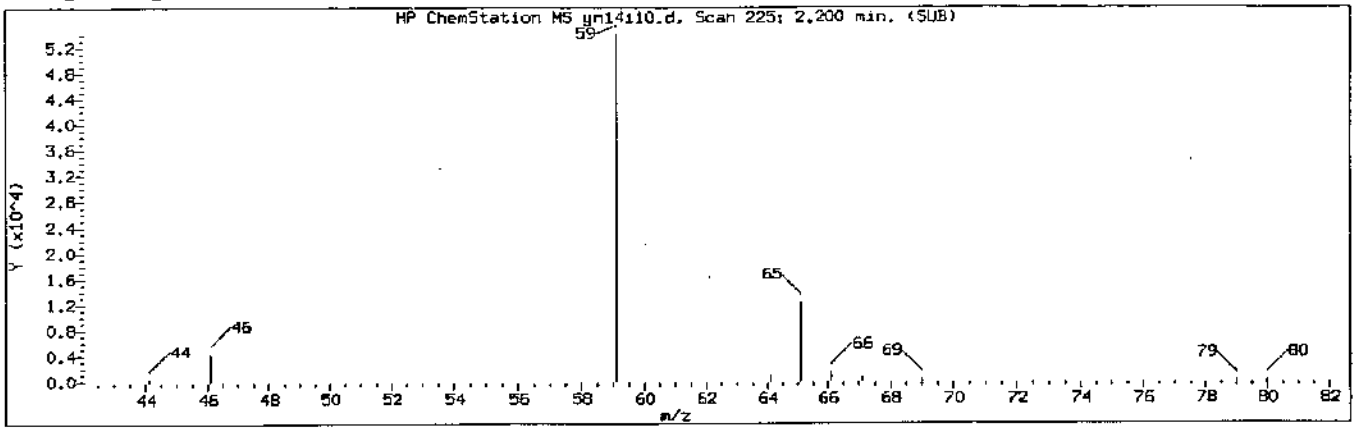
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 25		
Compound Name	: Methyl Acetate		
Scan Number	: 199		
Retention Time (minutes)	: 2.042		
Quant Ion	: 43.00		
Area	: 549905		
On-column Amount (ng)	: 50.8284		
Integration start scan	: 185	Integration stop scan:	233
Y at integration start	: 2042	Y at integration end:	2042

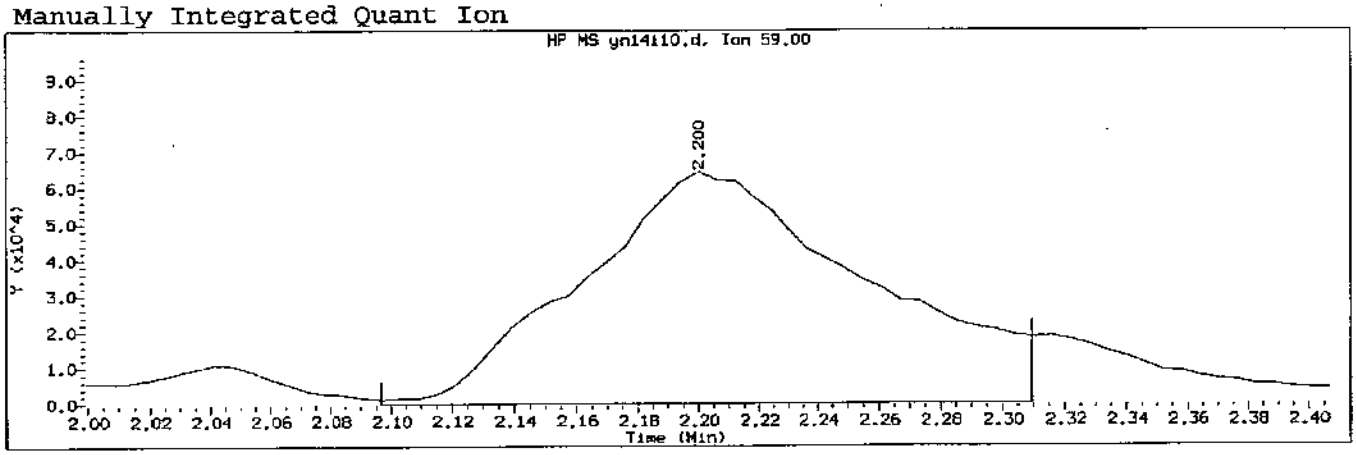
PCH09 #193

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

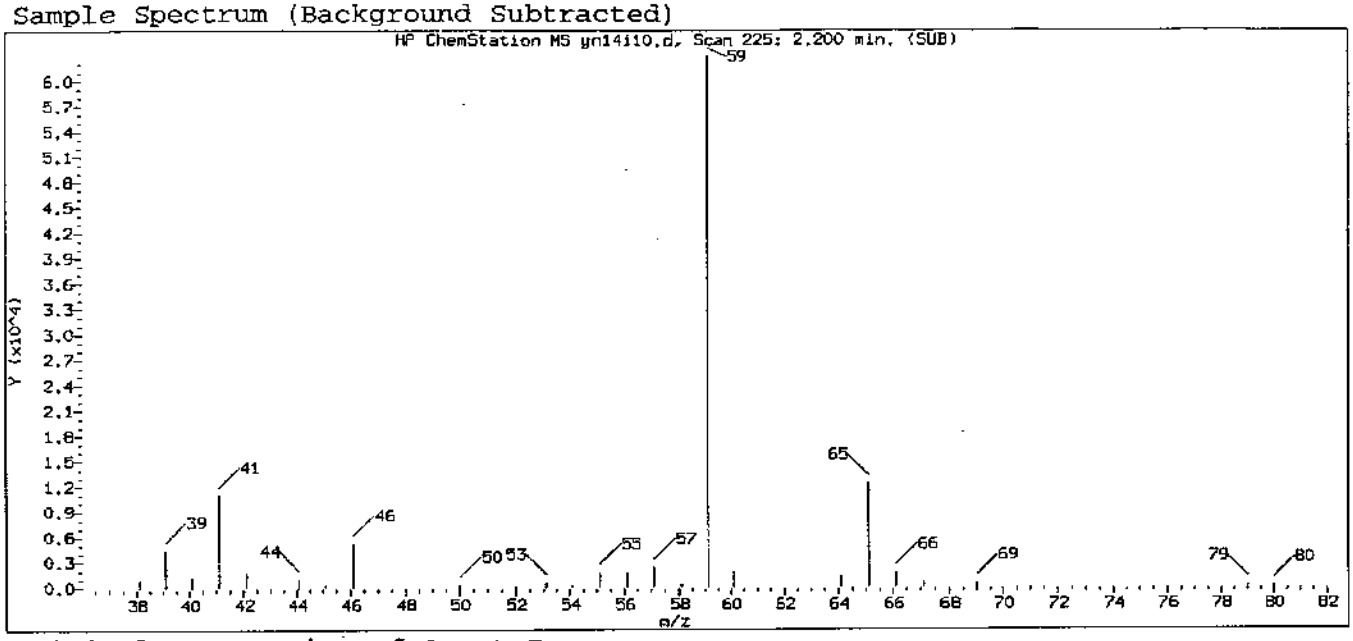
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 225		
Retention Time (minutes)	: 2.200		
Quant Ion	: 59.00		
Area (flag)	: 420671M		
On-Column Amount (ng)	: 233.1610		
Integration start scan	: 207	Integration stop scan:	242
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

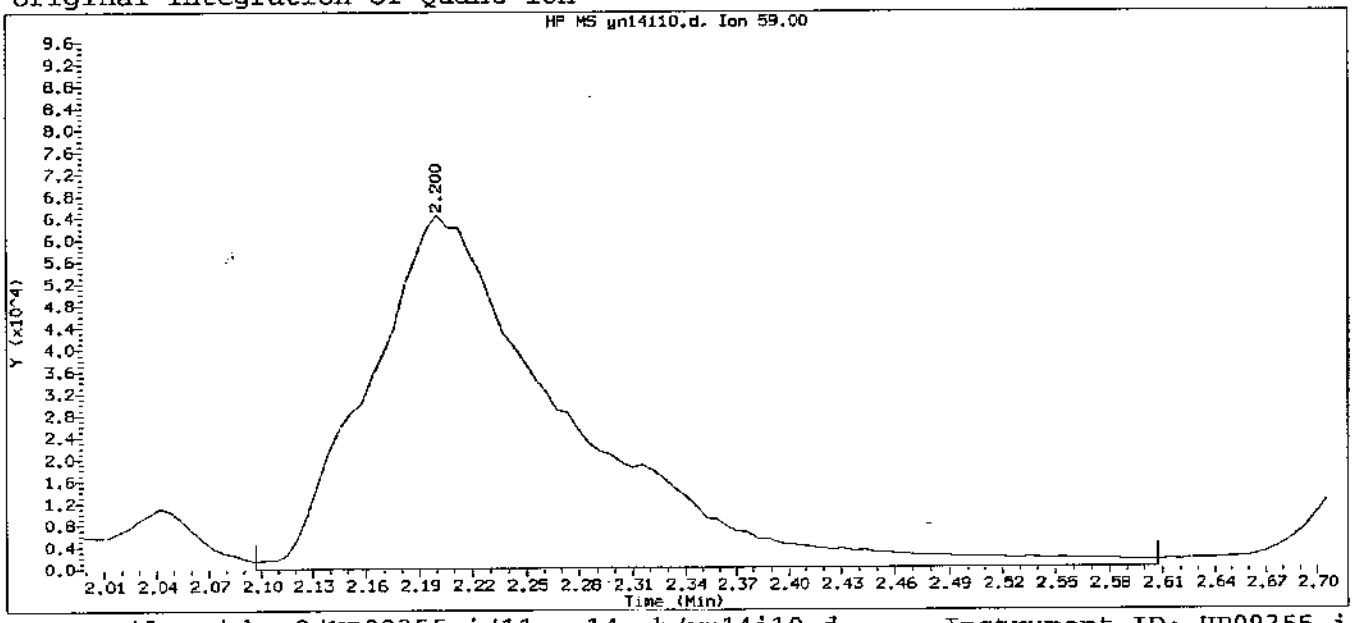
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0194

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

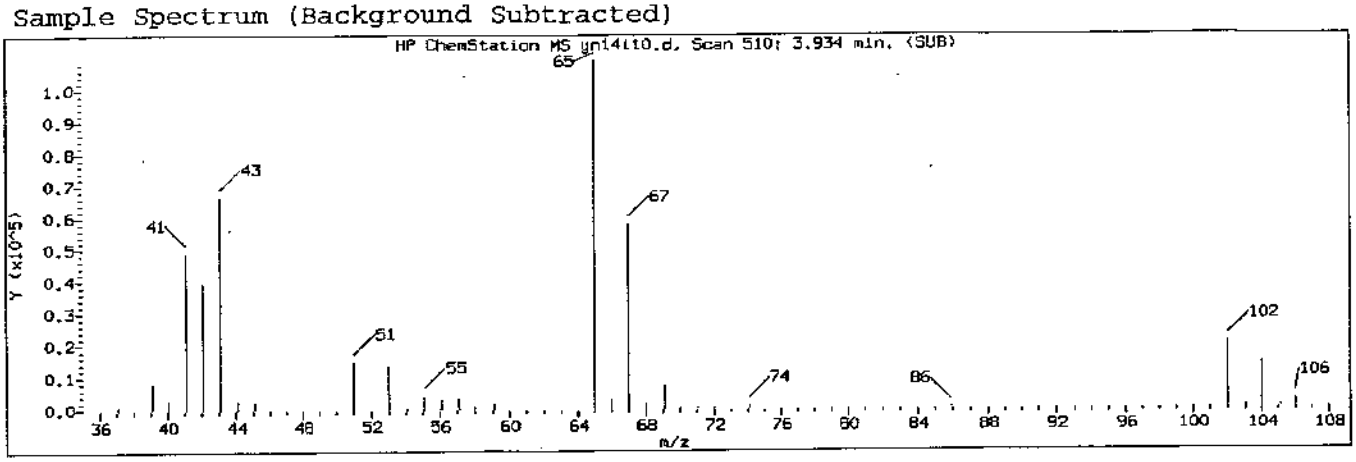
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 225		
Retention Time (minutes)	: 2.200		
Quant Ion	: 59.00		
Area	: 501242		
On-column Amount (ng)	: 357.6261		
Integration start scan	: 207	Integration stop scan:	291
Y at integration start	: 0	Y at integration end:	0

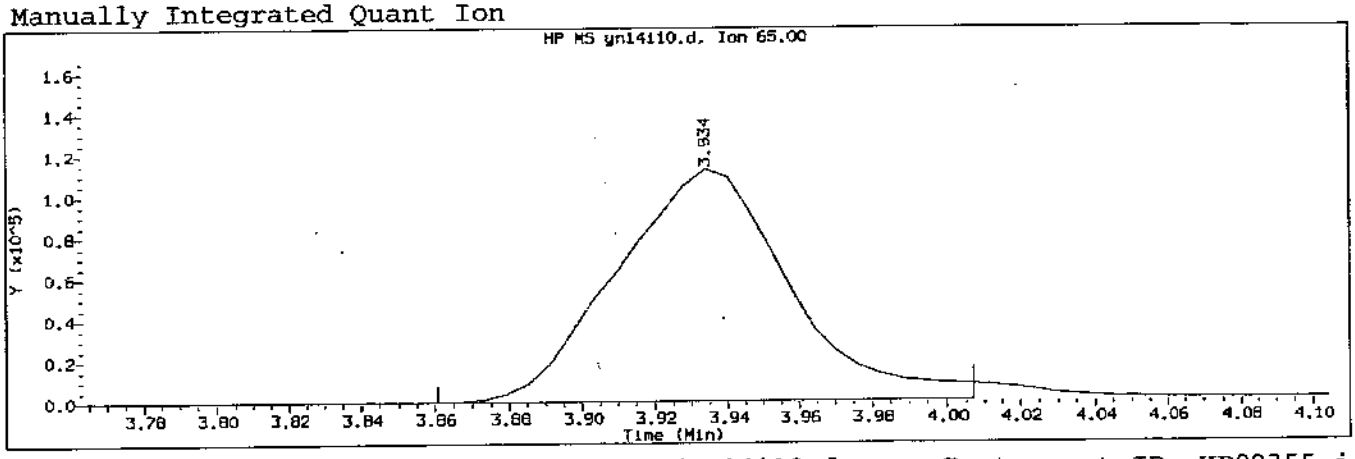
PCH05 8195

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

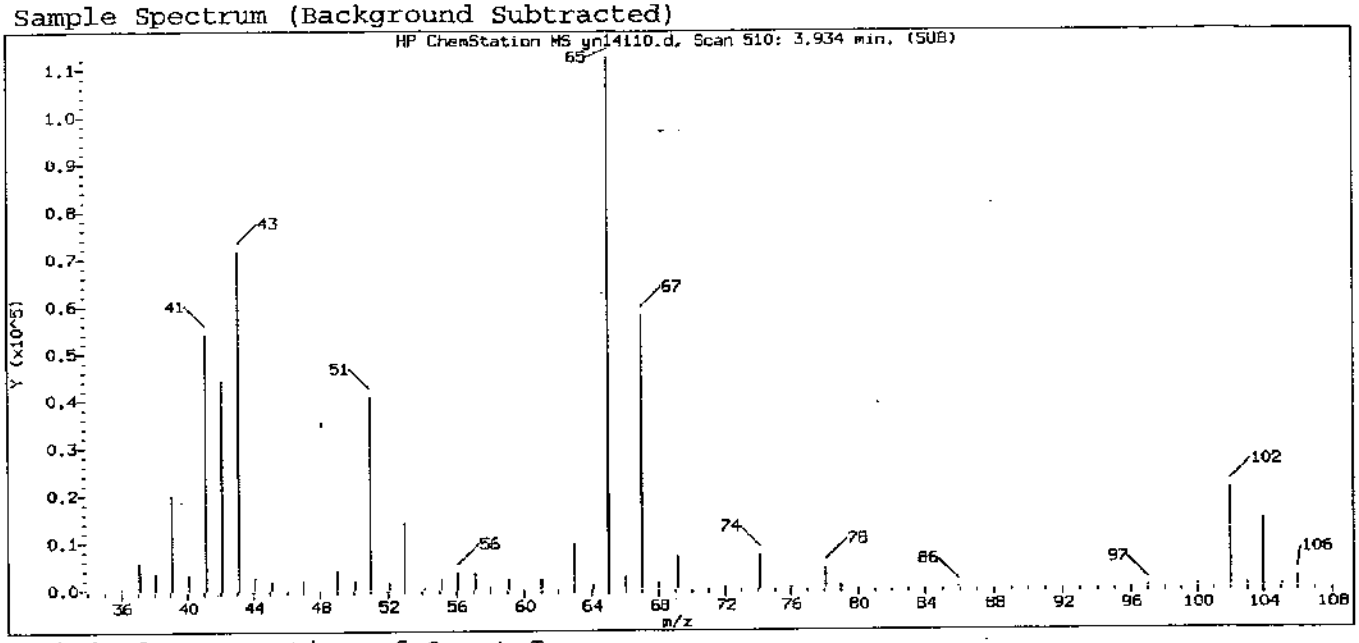
Compound Number	: 61		
Compound Name	: 1,2-Dichloroethane-d4(mz65)		
Scan Number	: 510		
Retention Time (minutes)	: 3.934		
Quant Ion	: 65.00		
Area (flag)	: 372593M		
On-Column Amount (ng)	: 50.7918		
Integration start scan	: 497	Integration stop scan:	521
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

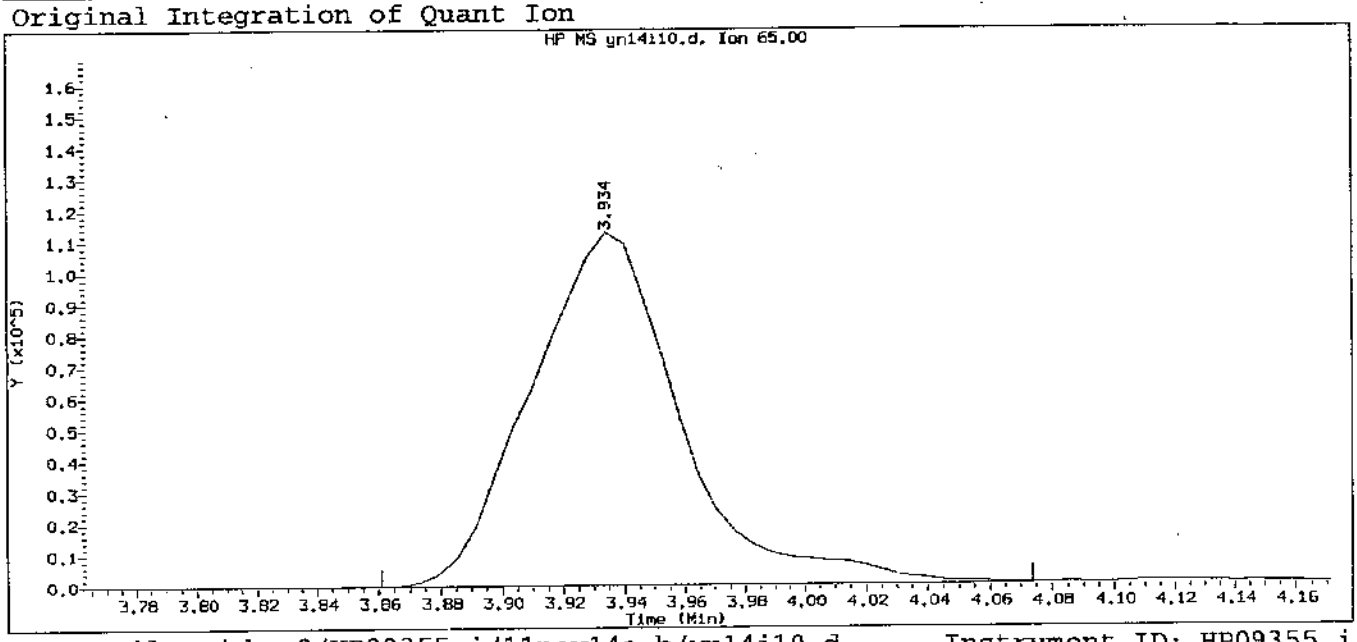
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8196

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

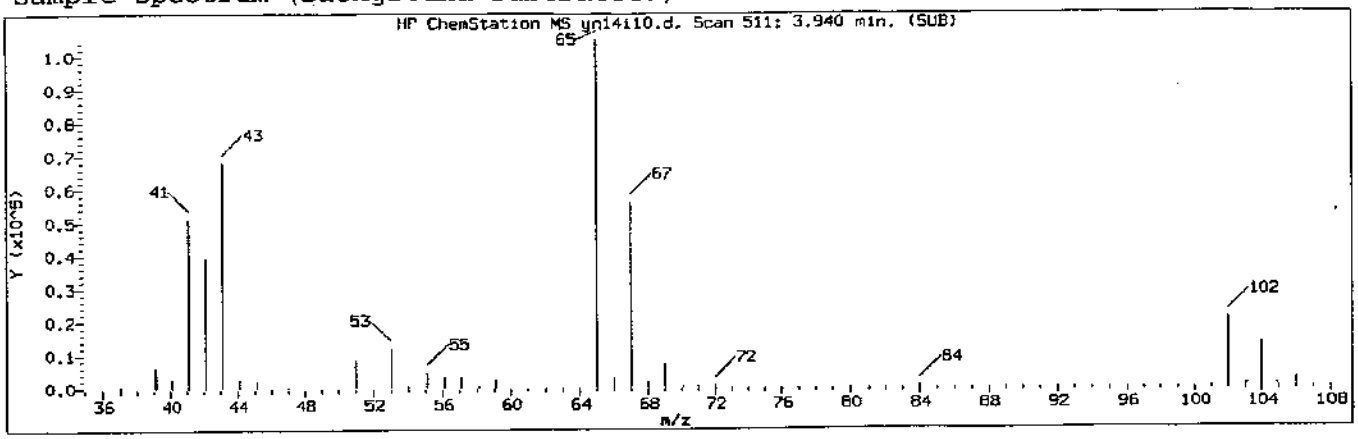
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 61		
Compound Name	: 1,2-Dichloroethane-d4(mz65)		
Scan Number	: 510		
Retention Time (minutes)	: 3.934		
Quant Ion	: 65.00		
Area	: 383319		
On-column Amount (ng)	: 50.7189		
Integration start scan	: 497	Integration stop scan:	532
Y at integration start	: 0	Y at integration end:	0

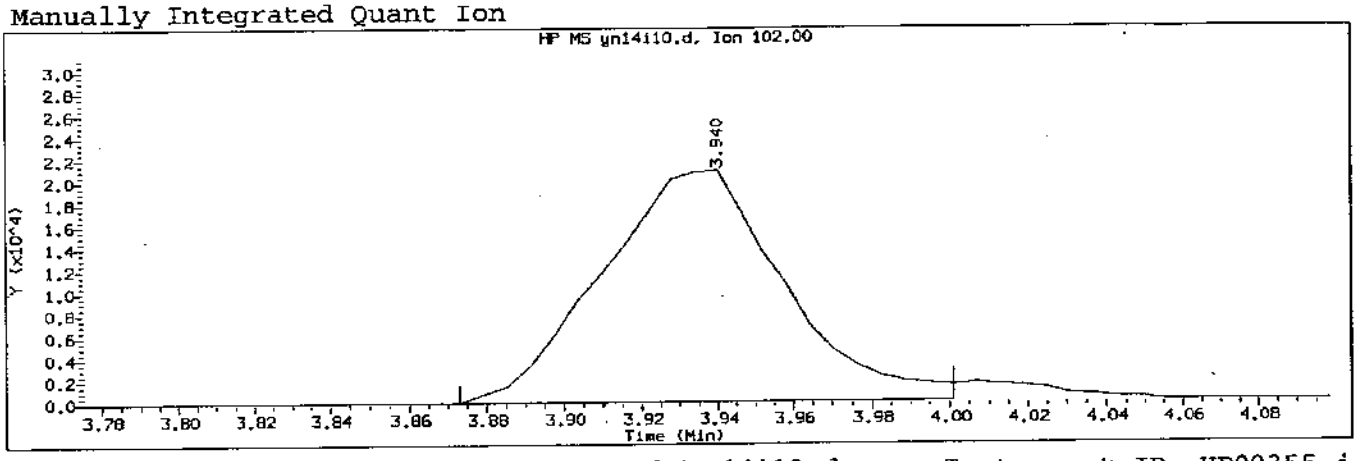
PCH89 0197

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:31 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

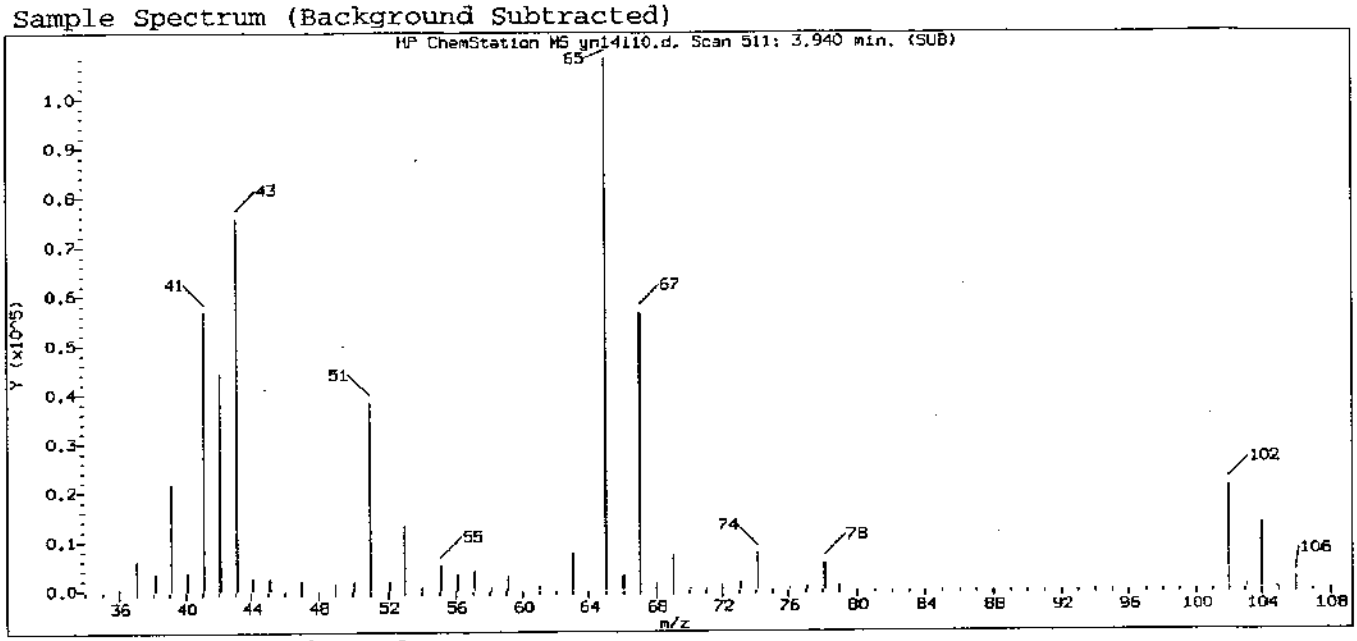
Compound Number	: 62		
Compound Name	: 1,2-Dichloroethane-d4		
Scan Number	: 511		
Retention Time (minutes)	: 3.940		
Quant Ion	: 102.00		
Area (flag)	: 69185M		
On-Column Amount (ng)	: 50.3191		
Integration start scan	: 499	Integration stop scan:	520
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

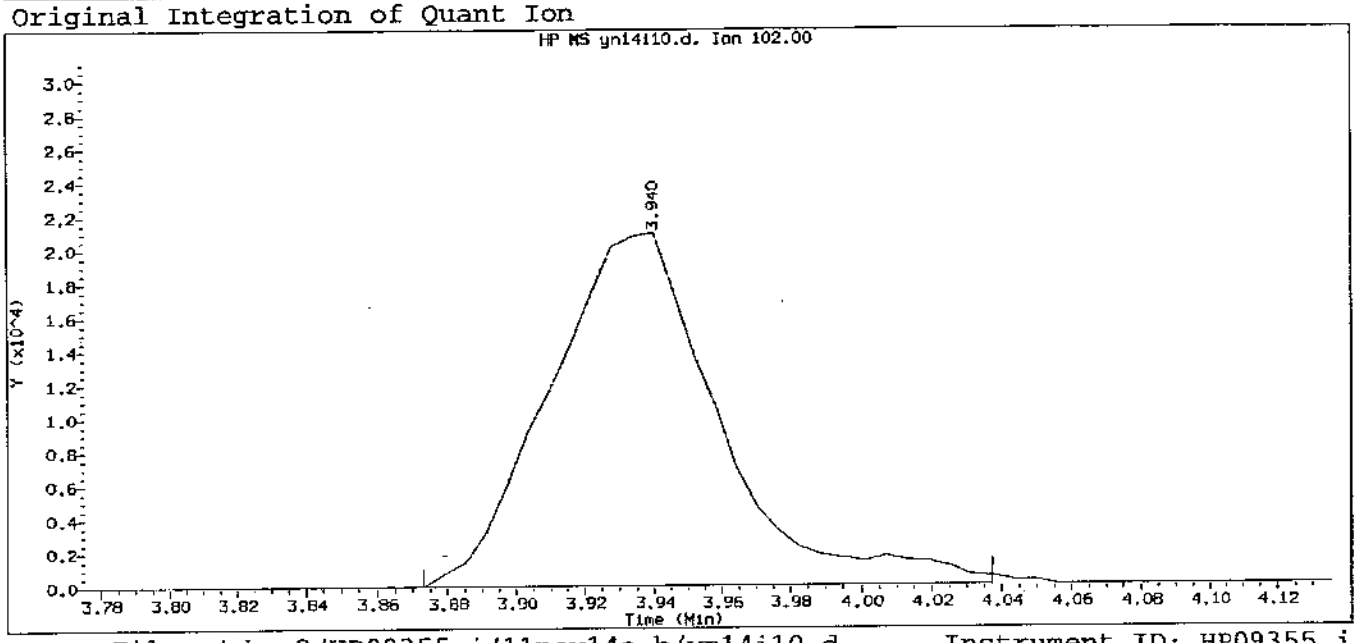
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 8198

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i10.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:29 Analyst ID: NRR01826

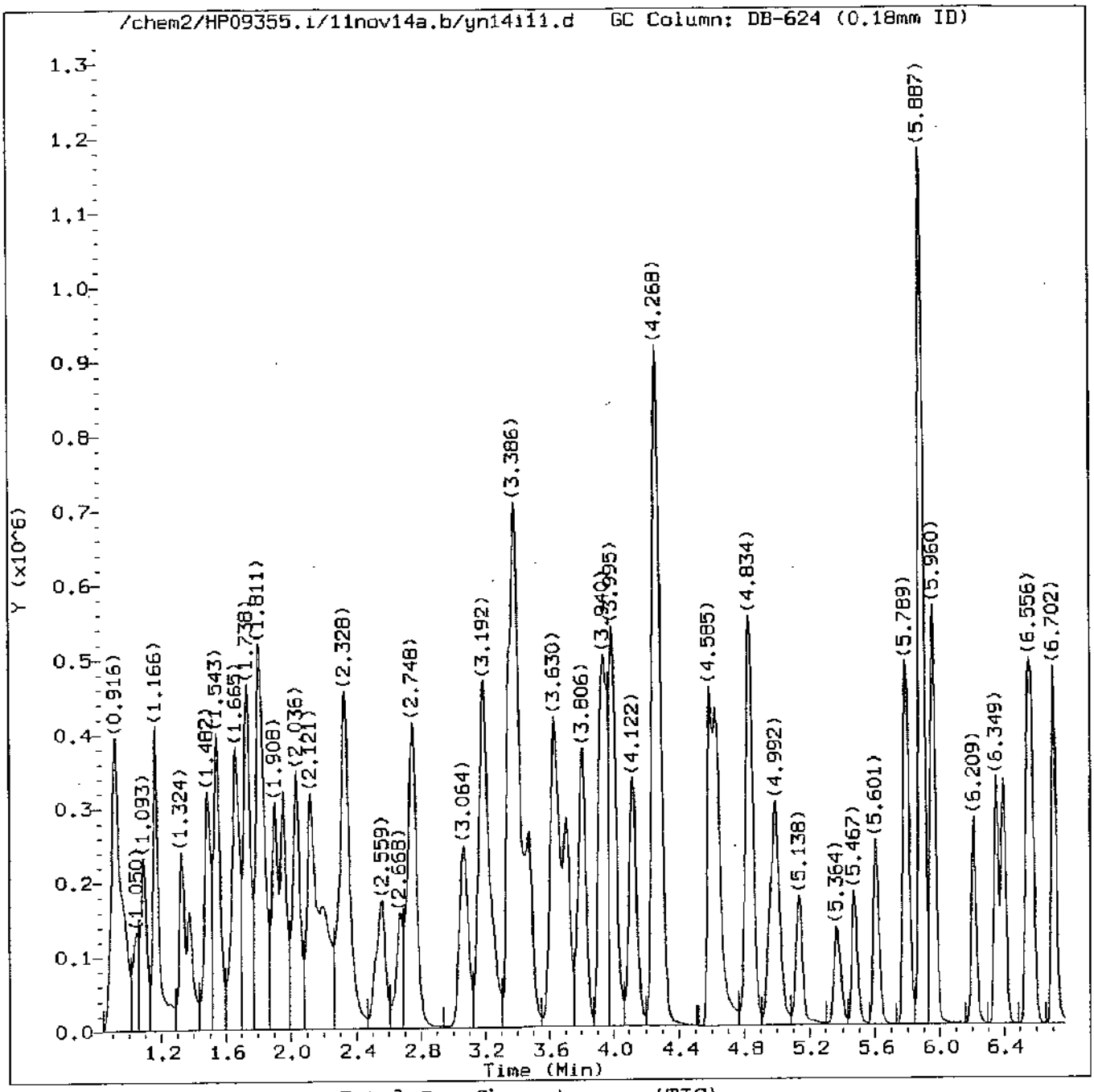
Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 62		
Compound Name	: 1,2-Dichloroethane-d4		
Scan Number	: 511		
Retention Time (minutes)	: 3.940		
Quant Ion	: 102.00		
Area	: 71606		
On-column Amount (ng)	: 51.5914		
Integration start scan	: 499	Integration stop scan:	526
Y at integration start	: 0	Y at integration end:	0

PCH89 8199

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d
Injection date and time: 14-NOV-2011 15:49

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:12

Sublist used: 8260WI

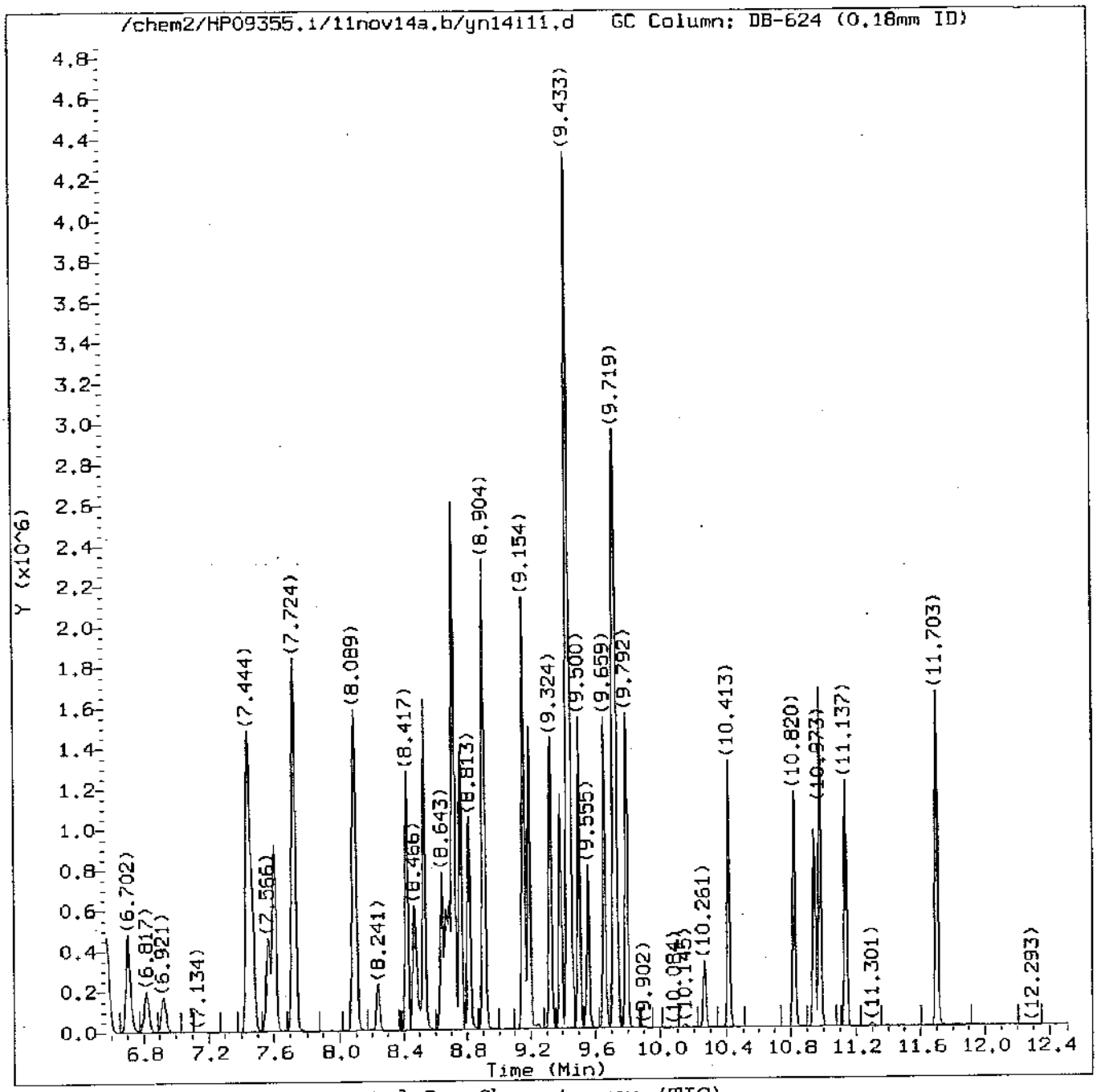
Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

Sample Name: VSTD020

Lab Sample ID: VSTD020

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29
Target 3.5 esignature user ID: fav02618

PCH05 8260



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d
Injection date and time: 14-NOV-2011 15:49

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:12

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

Sample Name: VSTD020

Lab Sample ID: VSTD020

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on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

PCH09 0281

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.050	85	231684	20.027
3) Chloromethane	(1)	1.093	50	216807M	20.379
5) Vinyl Chloride	(1)	1.160	62	216776	20.332
4) 1,3-Butadiene	(1)	1.166	39	106765M	19.829
7) Bromomethane	(1)	1.330	94	168499	20.919
8) Chloroethane	(1)	1.373	64	127760	21.042
9) Dichlorofluoromethane	(1)	1.482	67	320794	20.573
10) Trichlorofluoromethane	(1)	1.543	101	303517M	17.205
11) n-Pentane	(1)	1.543	43	205809	19.970
13) Ethyl Ether	(1)	1.659	59	131345	20.349
14) Freon 123a	(1)	1.665	67	187957	19.512
15) Acrolein	(4)	1.738	56	616878	197.218
16) 1,1-Dichloroethene	(1)	1.805	96	149353	19.763
18) Freon 113	(1)	1.823	101	153461	19.347
17) Acetone	(1)	1.829	58	70339	41.078
20) Methyl Iodide	(1)	1.908	142	307524	19.984
21) 2-Propanol	(4)	1.914	45	258099M	203.835
22) Carbon Disulfide	(1)	1.957	76	424877	19.334
24) Allyl Chloride	(1)	2.036	41	215345	20.209
25) Methyl Acetate	(1)	2.042	43	207759	20.245
26) Methylene Chloride	(1)	2.121	84	126463	19.588
28)*t-Butyl Alcohol-d10	(4)	2.139	65	390402	250.000
29) t-Butyl Alcohol	(4)	2.200	59	351557M	199.695
30) Acrylonitrile	(1)	2.291	53	95130	20.339
31) trans-1,2-Dichloroethene	(1)	2.328	96	123553	19.926
32) Methyl Tertiary Butyl Ether	(1)	2.334	73	409879	20.366
33) n-Hexane	(1)	2.553	57	172487	20.166
34) 1,1-Dichloroethane	(1)	2.668	63	219515	20.203
36) di-Isopropyl Ether	(1)	2.741	45	395765	20.238
37) 2-Chloro-1,3-Butadiene	(1)	2.754	53	191687	19.759
39) Ethyl t-Butyl Ether	(1)	3.064	59	391356	20.267
41) 2-Butanone	(1)	3.161	43	255574	39.968
40) cis-1,2-Dichloroethene	(1)	3.179	96	133829	19.794
42) 2,2-Dichloropropane	(1)	3.192	77	178601	19.676
43) Propionitrile	(4)	3.240	54	371596	197.125
46) Methacrylonitrile	(1)	3.380	67	433619	100.159
47) Bromochloromethane	(1)	3.392	128	71924	19.772
48) Tetrahydrofuran	(4)	3.441	71	70591	39.667

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

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on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

PCH09 0282

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Chloroform	(1)	3.471	83	216775	19.945
52)$Dibromofluoromethane	(1)	3.624	113	271468	50.167
51)$Dibromofluoromethane(mz111)	(1)	3.624	111	276986	50.250
45) 1,2-Dichloroethene (total)	(1)		96	257382	39.720
53) 1,1,1-Trichloroethane	(1)	3.648	97	217160	19.701
56) Cyclohexane	(1)	3.703	56	203290	19.657
55) Cyclohexane (mz 69)	(1)	3.703	69	63276	19.739
54) Cyclohexane (mz 84)	(1)	3.709	84	176494	19.595
57) 1,1-Dichloropropene	(1)	3.800	75	167319	19.602
58) Carbon Tetrachloride	(1)	3.812	117	167372	19.392
59) Isobutyl Alcohol	(4)	3.922	41	279270	481.559
60)$1,2-Dichloroethane-d4(mz104)	(1)	3.934	104	41810	49.735
62)$1,2-Dichloroethane-d4	(1)	3.934	102	67689	50.987
61)$1,2-Dichloroethane-d4(mz65)	(1)	3.934	65	361944	51.100
63) Benzene	(1)	3.995	78	488923	19.716
64) 1,2-Dichloroethane (mz 98)	(1)	4.007	98	15857	19.862
65) 1,2-Dichloroethane	(1)	4.007	62	196417	20.016
69) t-Amyl Methyl Ether	(1)	4.122	73	365489	19.260
71)*Fluorobenzene	(1)	4.268	96	1093023	50.000
72) n-Heptane	(1)	4.287	43	199100	20.507
73) n-Butanol	(4)	4.585	56	466832	990.038
74) Trichloroethene	(1)	4.633	95	131382	19.636
75) Methylcyclohexane (mz98)	(1)	4.828	98	97981	19.045
76) Methylcyclohexane	(1)	4.828	83	212259	19.176
77) 1,2-Dichloropropane	(1)	4.846	63	127875	19.764
78) Dibromomethane	(1)	4.956	93	90997	20.129
79) 1,4-Dioxane	(4)	4.986	88	76485	498.183
80) Methyl Methacrylate	(1)	4.992	69	131320	19.829
83) Bromodichloromethane	(1)	5.138	83	153188	19.609
85) 2-Nitropropane	(1)	5.364	41	119401	41.803
86) 2-Chloroethyl Vinyl Ether	(1)	5.467	63	100628	19.998
87) cis-1,3-Dichloropropene	(1)	5.601	75	187973	19.715
89) 4-Methyl-2-Pentanone	(1)	5.789	43	502144	41.107
93)$Toluene-d8	(2)	5.887	98	1091221	50.172
92)$Toluene-d8(mz100)	(2)	5.887	100	703101	49.677
94) Toluene	(2)	5.960	92	318071	19.583
95) trans-1,3-Dichloropropene	(2)	6.209	75	177387	19.550
96) Ethyl Methacrylate	(2)	6.349	69	202524	19.987

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

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on 11/14/2011 at 20:29
Target 3.5 esignature user ID: fav02618

PCH09 0203

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
97) 1,1,2-Trichloroethane	(2)	6.398	97	124684	19.996
98) Tetrachloroethene	(2)	6.550	166	156956	19.555
99) 1,3-Dichloropropane	(2)	6.574	76	208915	19.937
101) 2-Hexanone	(2)	6.702	43	384099	40.323
102) Dibromochloromethane	(2)	6.817	129	123247	19.130
104) 1,2-Dibromoethane	(2)	6.921	107	136609	19.998
106)*Chlorobenzene-d5	(2)	7.444	117	824509	50.000
107) Chlorobenzene	(2)	7.468	112	371009	19.534
108) 1,1,1,2-Tetrachloroethane	(2)	7.566	131	124289	19.354
109) Ethylbenzene	(2)	7.602	91	631792	19.821
110) m+p-Xylene	(2)	7.724	106	516107	38.420
113) o-Xylene	(2)	8.089	106	254521	18.979
114) Styrene	(2)	8.095	104	415923	19.018
112) Xylene (Total)	(2)		106	770628	57.399
115) Bromoform	(2)	8.241	173	91937	18.214
116) Isopropylbenzene	(2)	8.417	105	673214	20.067
118) Cyclohexanone	(4)	8.466	55	265351	421.453
120)$4-Bromofluorobenzene(mz174)	(2)	8.533	174	381973	50.147
119)$4-Bromofluorobenzene	(2)	8.533	95	411429	50.070
121) Bromobenzene	(3)	8.643	156	176053	20.447
122) 1,1,2,2-Tetrachloroethane	(3)	8.667	83	213281	20.954
123) 1,2,3-Trichloropropane	(3)	8.691	110	72510	20.958
124) trans-1,4-Dichloro-2-Butene	(3)	8.716	53	389285	105.431
125) n-Propylbenzene	(3)	8.758	91	788043	21.812
126) 2-Chlorotoluene	(3)	8.813	126	164884	20.637
128) 4-Chlorotoluene	(3)	8.898	126	175713	20.179
127) 1,3,5-Trimethylbenzene	(3)	8.904	105	594407	20.982
130) tert-Butylbenzene	(3)	9.154	134	137713	20.041
131) Pentachloroethane	(3)	9.160	167	100114	19.310
132) 1,2,4-Trimethylbenzene	(3)	9.190	105	604702	21.367
133) sec-Butylbenzene	(3)	9.324	105	742992	21.797
134) 1,3-Dichlorobenzene	(3)	9.385	146	350853	20.769
135) p-Isopropyltoluene	(3)	9.433	119	701192	21.428
136)*1,4-Dichlorobenzene-d4	(3)	9.439	152	544097	50.000
138) 1,4-Dichlorobenzene	(3)	9.452	146	370690	20.452
139) 1,2,3-Trimethylbenzene	(3)	9.500	105	611064	21.101
141) Benzyl Chloride	(3)	9.555	91	392056	20.686
142) 1,3-Diethylbenzene	(3)	9.659	119	385260	20.709

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

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Target 3.5 esignature user ID: fav02618

PCH09 8284

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

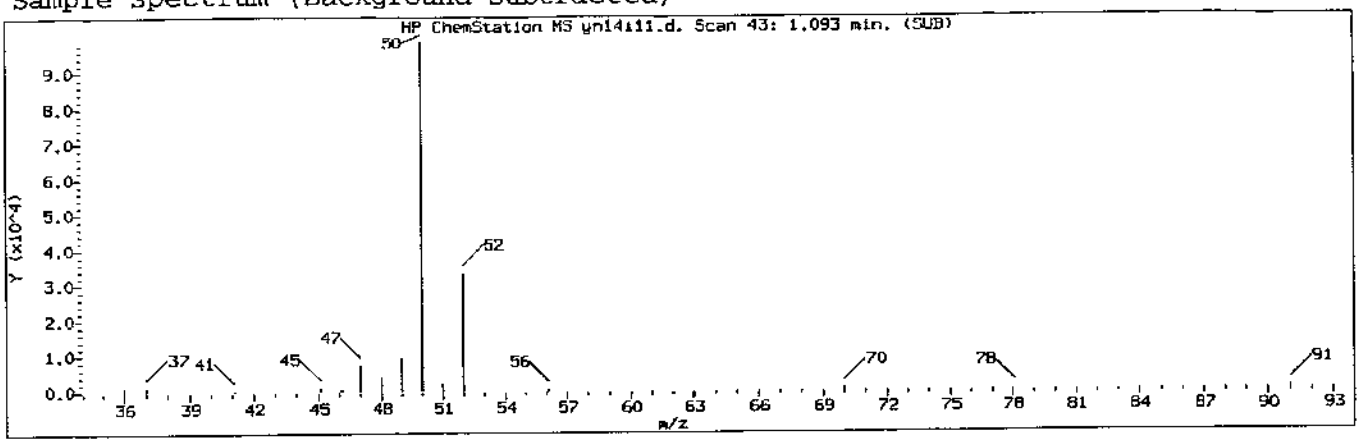
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
143) 1,4-Diethylbenzene	(3)	9.713	119	415935	20.291
144) 1,2-Dichlorobenzene	(3)	9.719	146	362080	20.173
145) n-Butylbenzene	(3)	9.732	92	330303	20.656
146) 1,2-Diethylbenzene	(3)	9.792	119	327540	20.318
148) 1,2-Dibromo-3-Chloropropane	(3)	10.261	75	56728	20.953
149) 1,3,5-Trichlorobenzene	(3)	10.413	180	282879	20.589
150) 1,2,4-Trichlorobenzene	(3)	10.827	180	262194	20.608
151) Hexachlorobutadiene	(3)	10.942	225	128433	21.028
152) Naphthalene	(3)	10.979	128	892322	22.196
153) 1,2,3-Trichlorobenzene	(3)	11.137	180	261425	20.819
154) 2-Methylnaphthalene	(3)	11.703	142	540234	21.522

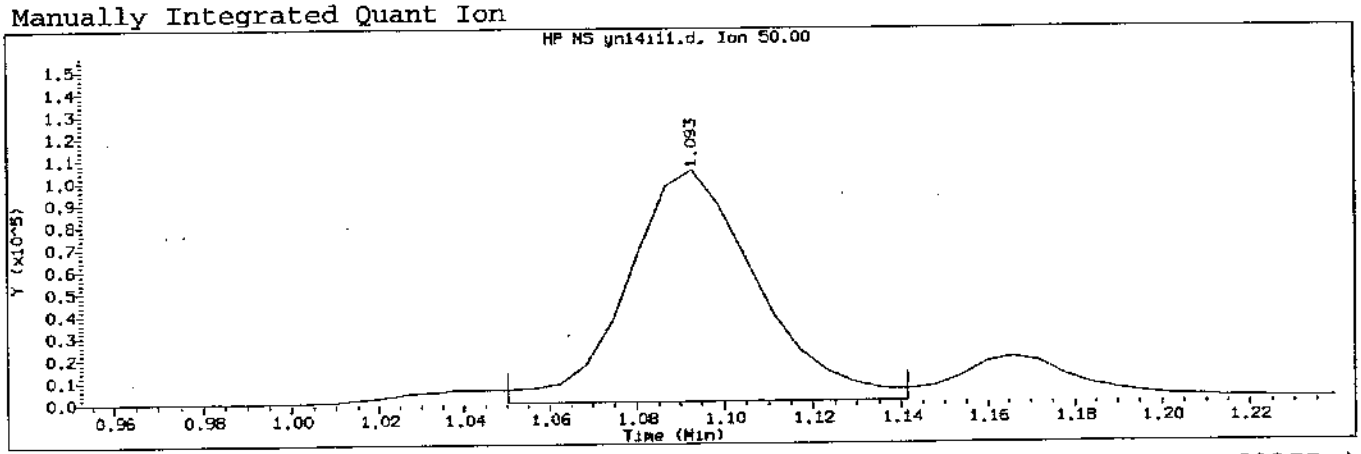
Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

PCH09 8285

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 43		
Retention Time (minutes)	: 1.093		
Quant Ion	: 50.00		
Area (flag)	: 216807M		
On-Column Amount (ng)	: 20.3787		
Integration start scan	: 35	Integration stop scan:	50
Y at integration start	: 0	Y at integration end:	0

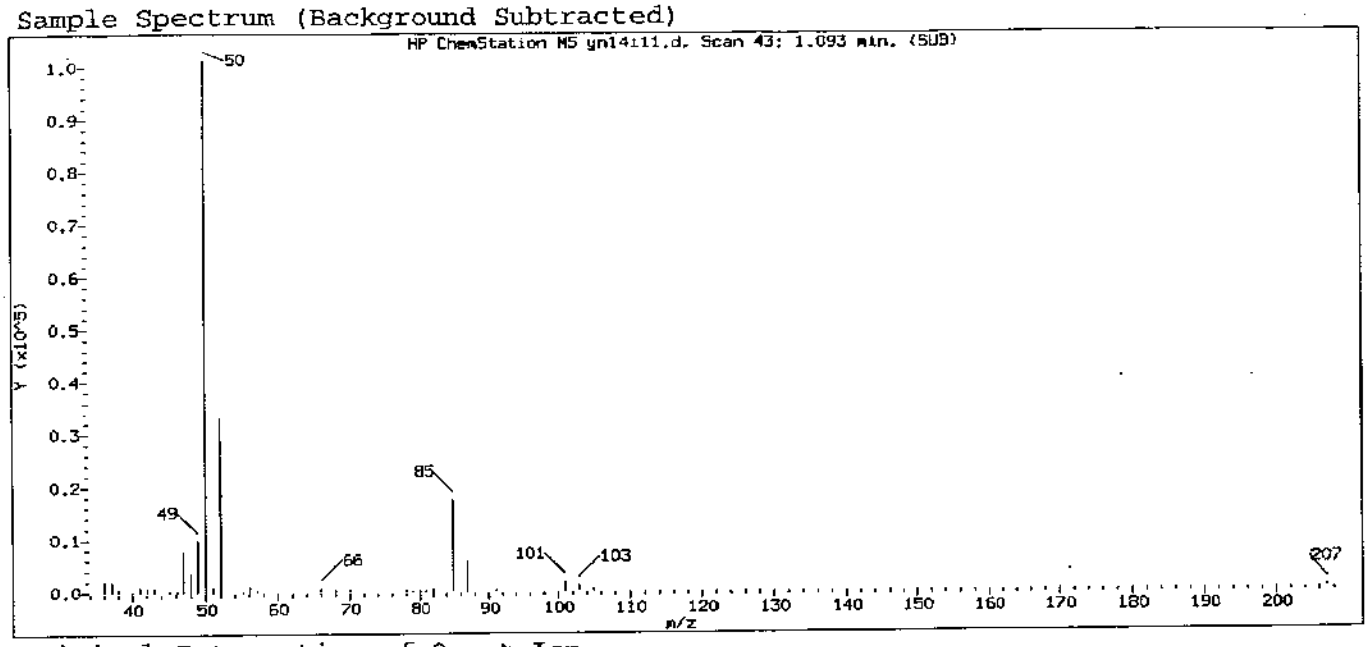
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

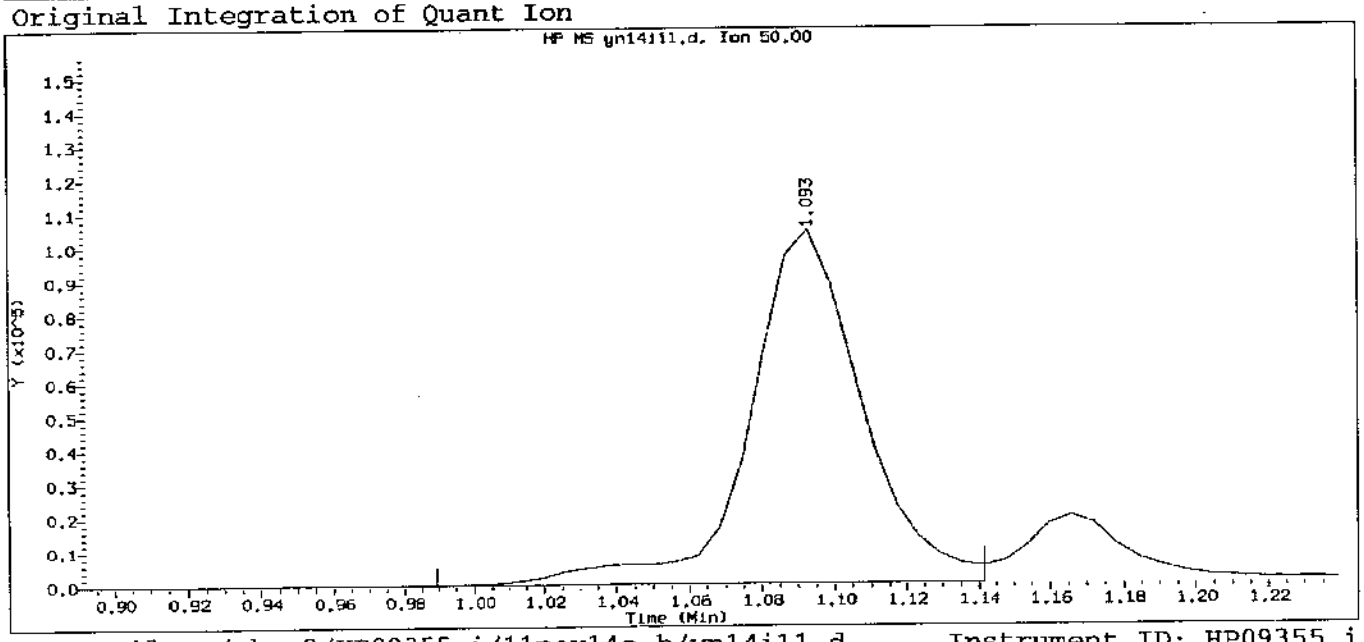
GC/MS audit/management approval: 11/17/11

PCH09 8286

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

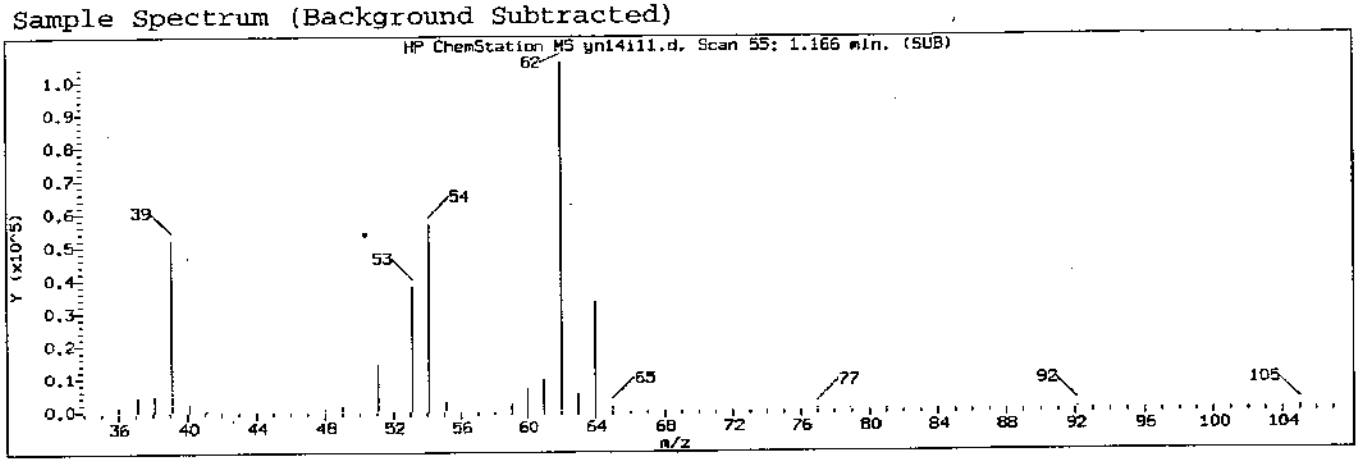
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 43		
Retention Time (minutes)	: 1.093		
Quant Ion	: 50.00		
Area	: 224822		
On-column Amount (ng)	: 21.8600		
Integration start scan	: 25	Integration stop scan:	50
Y at integration start	: 0	Y at integration end:	0

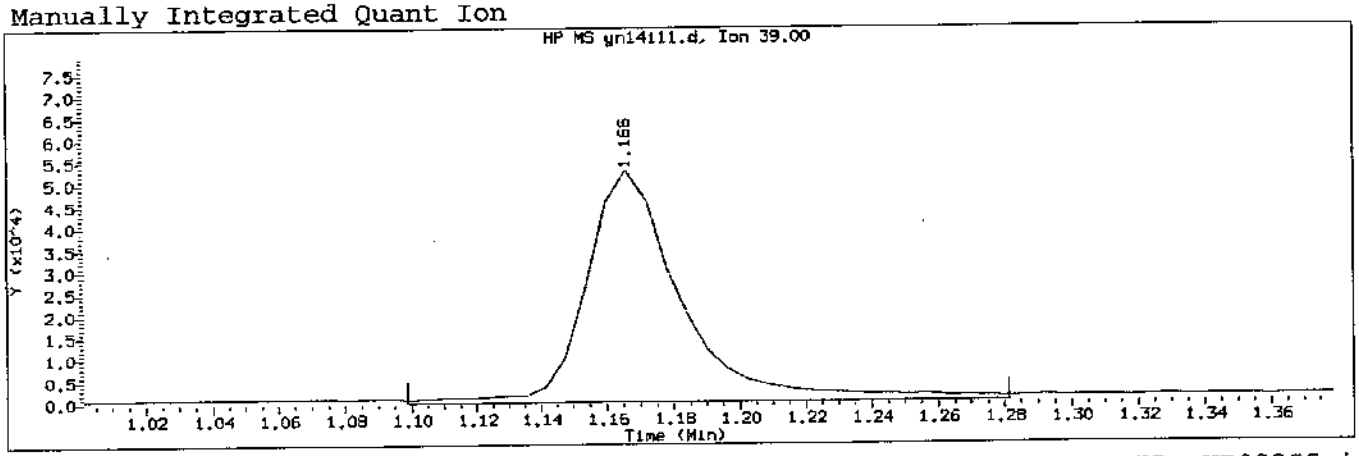
PCH09 8260

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

Sample Name: VSTD020 Lab Sample ID: VSTD020

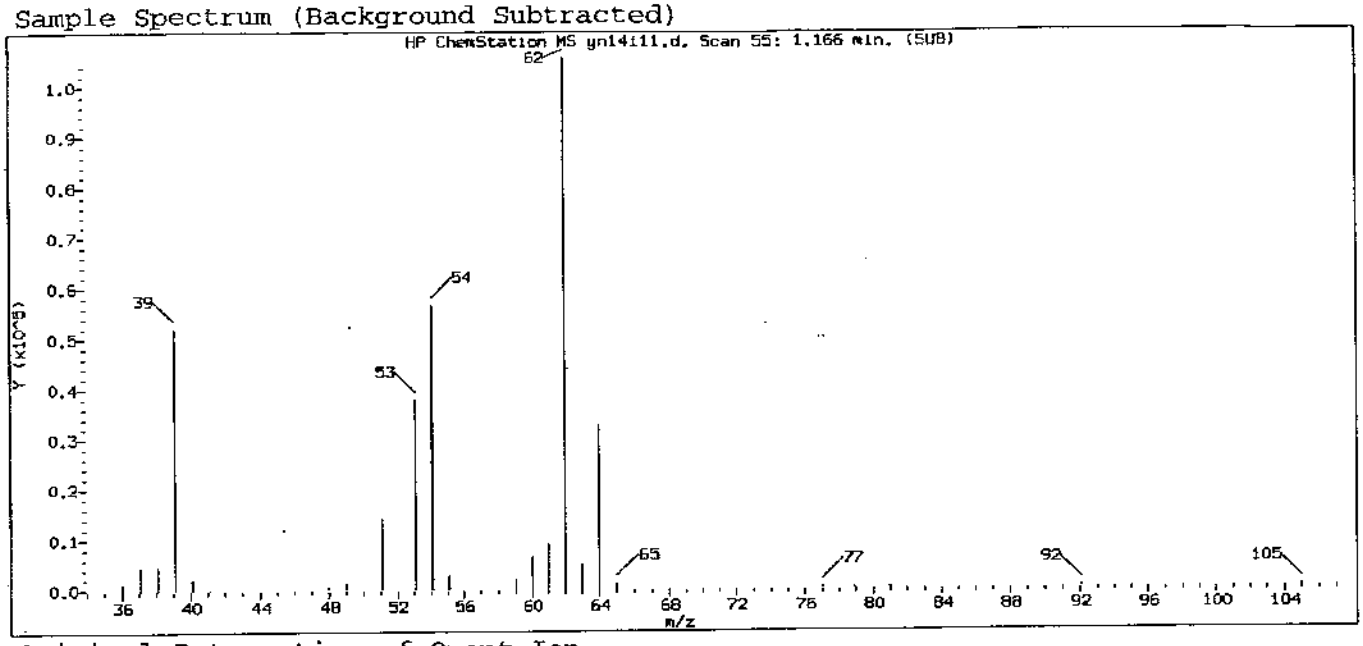
Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area (flag)	: 106765M		
On-Column Amount (ng)	: 19.8292		
Integration start scan	: 43	Integration stop scan:	73
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

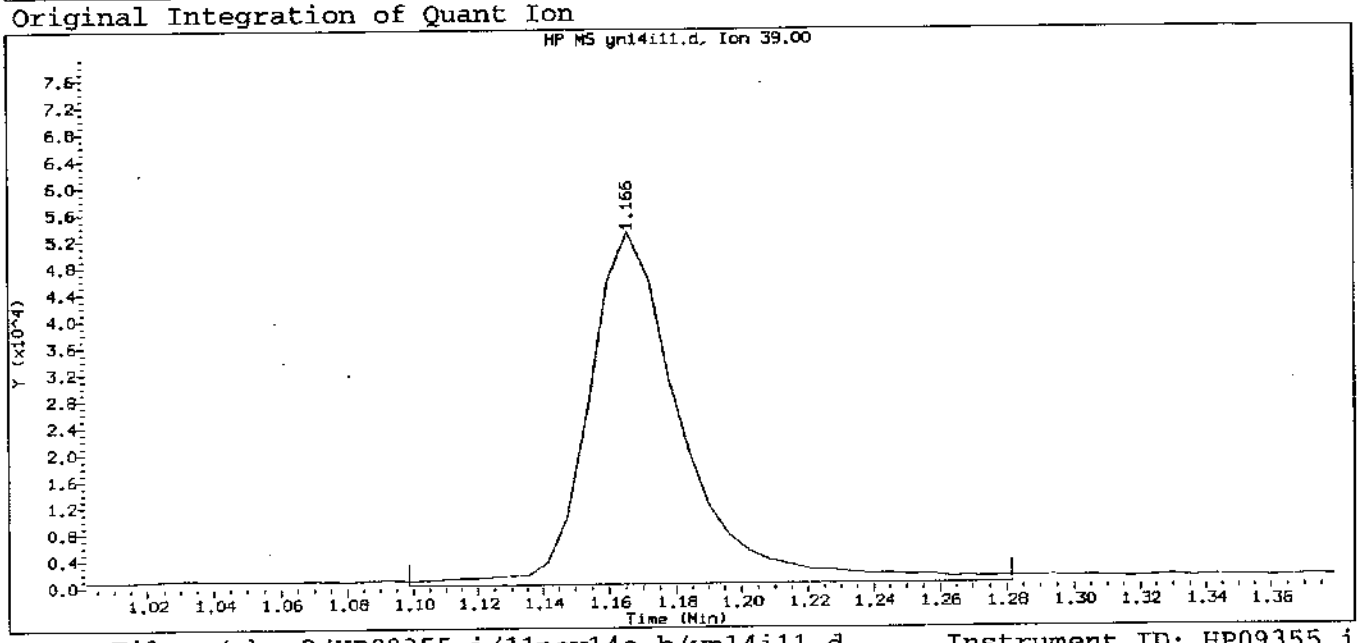
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8288

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

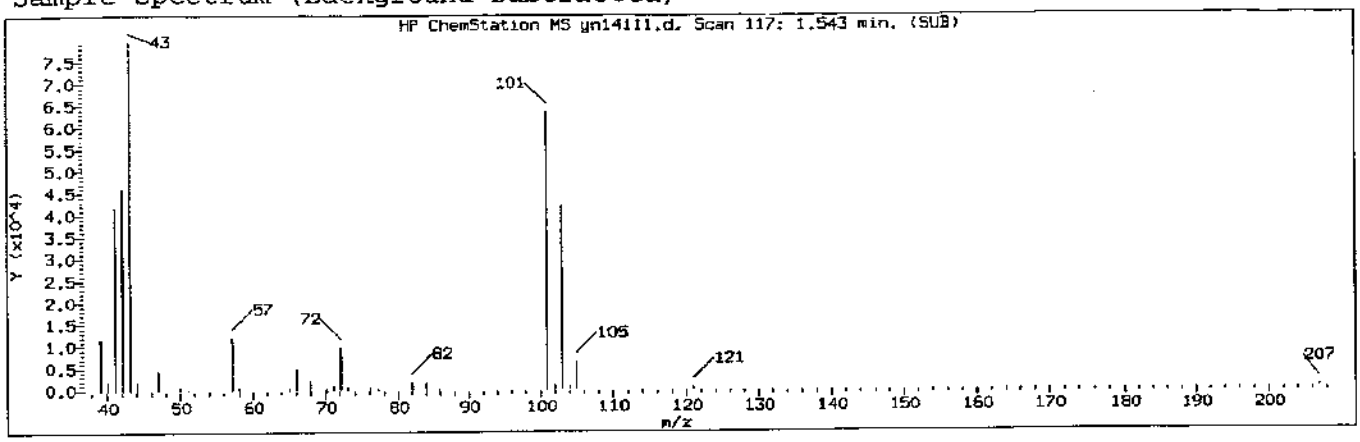
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area	: 104281		
On-column Amount (ng)	: 21.6497		
Integration start scan	: 43	Integration stop scan:	73
Y at integration start	: 131	Y at integration end:	260

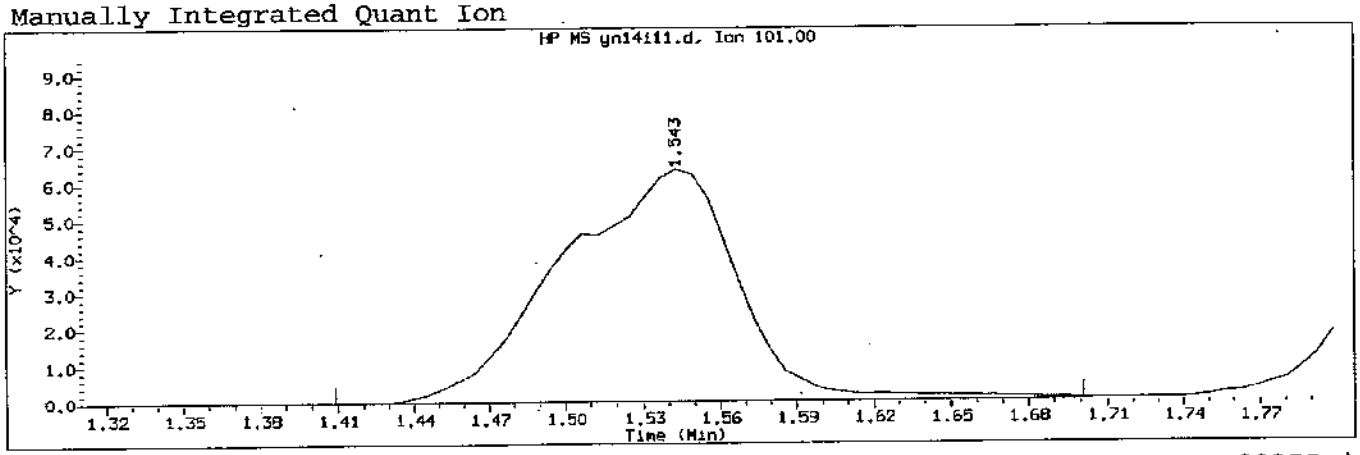
PCH09 0269

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Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

Sample Name: VSTD020 Lab Sample ID: VSTD020

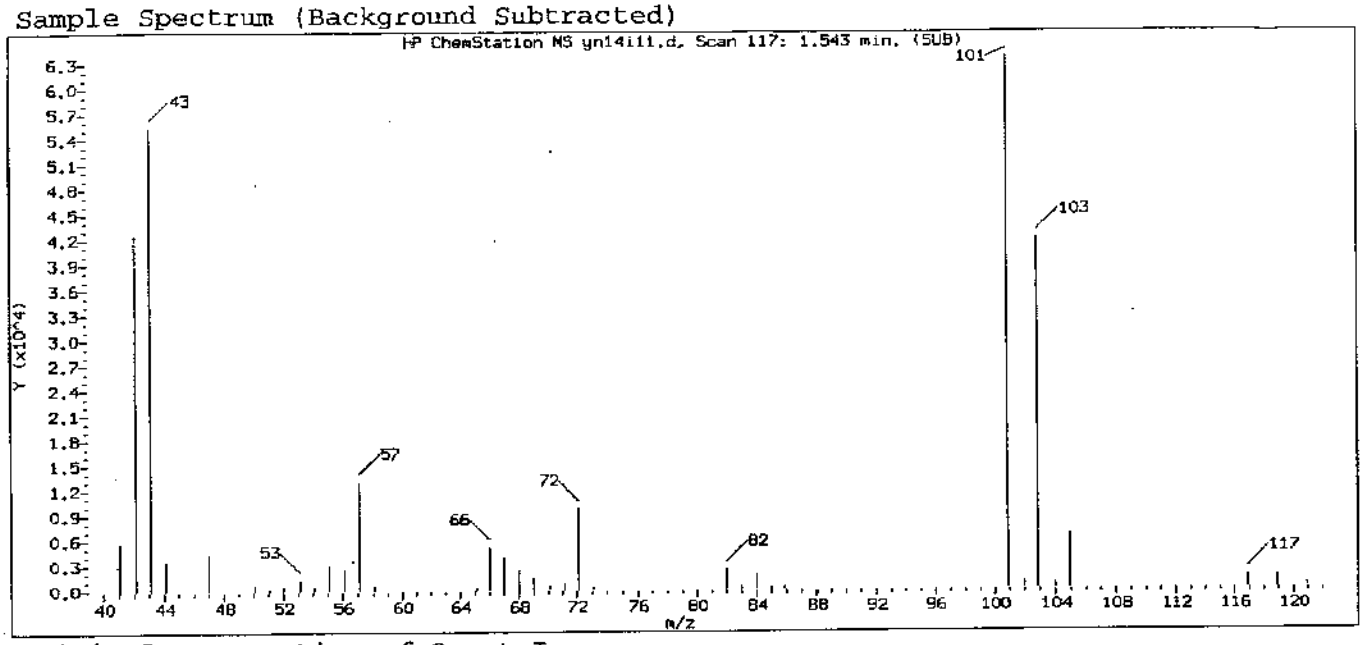
Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 117		
Retention Time (minutes)	: 1.543		
Quant Ion	: 101.00		
Area (flag)	: 303517M		
On-Column Amount (ng)	: 17.2046		
Integration start scan	: 94	Integration stop scan:	142
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

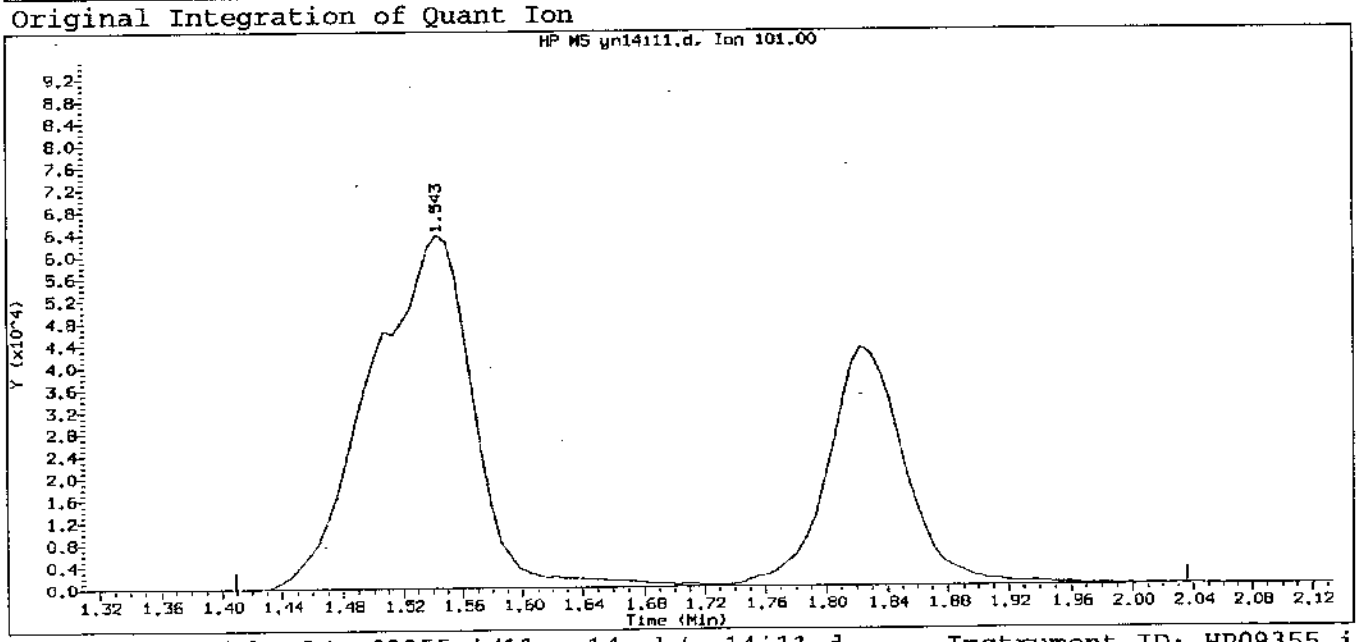
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0218

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

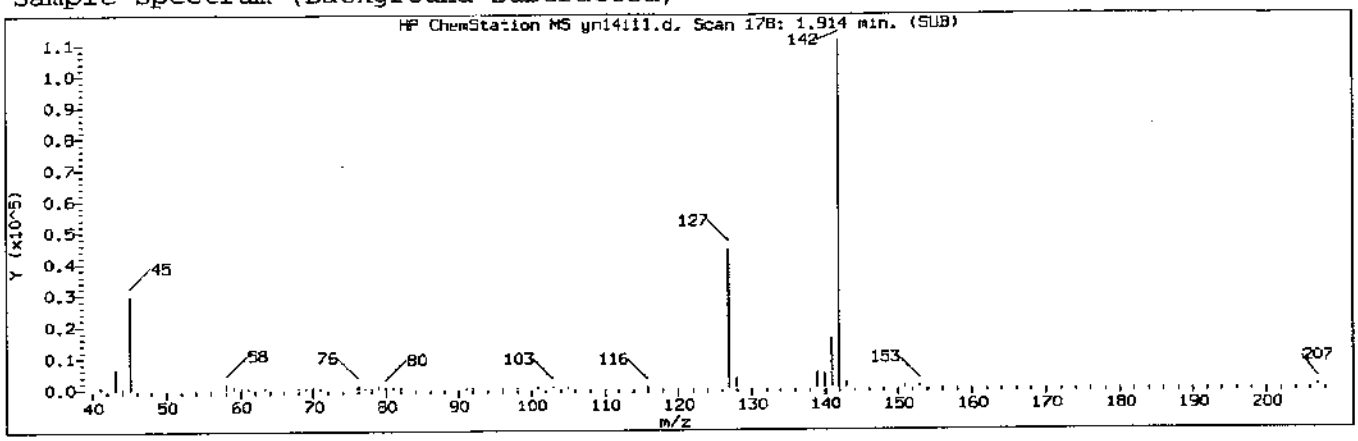
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 117		
Retention Time (minutes)	: 1.543		
Quant Ion	: 101.00		
Area	: 456810		
On-column Amount (ng)	: 22.4078		
Integration start scan	: 94	Integration stop scan:	197
Y at integration start	: 0	Y at integration end:	0

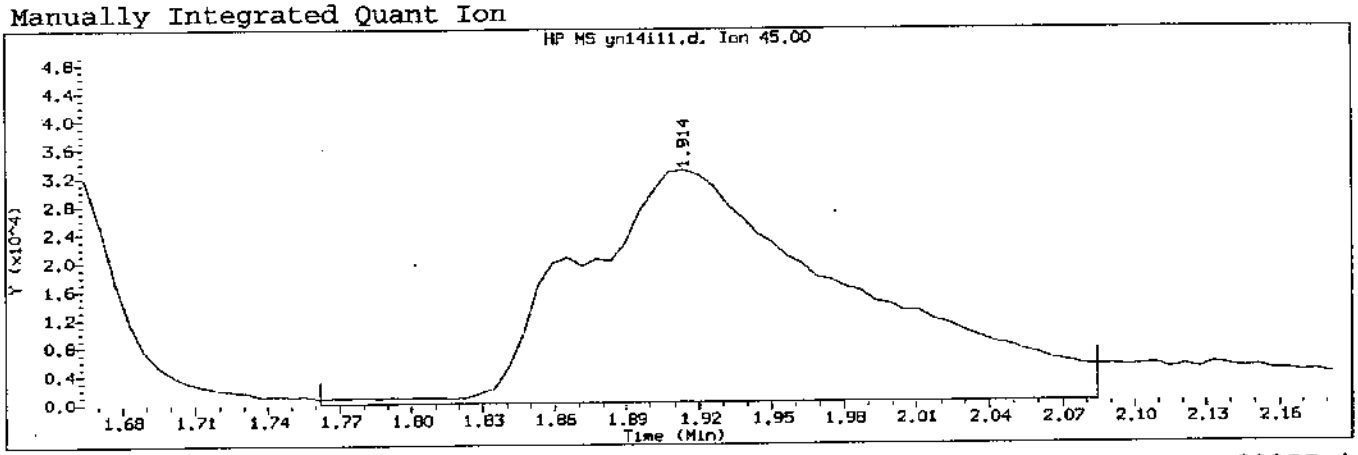
PCH09 0211

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Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

Sample Name: VSTD020 Lab Sample ID: VSTD020

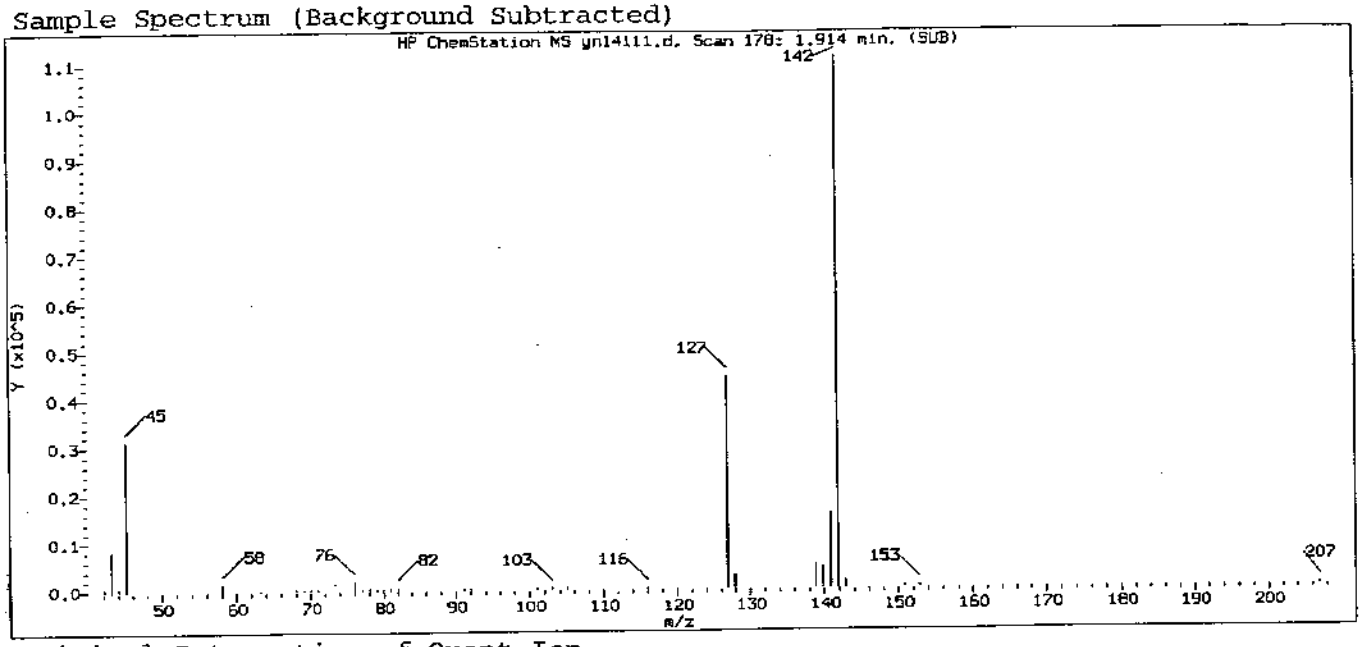
Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 178		
Retention Time (minutes)	: 1.914		
Quant Ion	: 45.00		
Area (flag)	: 258099M		
On-Column Amount (ng)	: 203.8351		
Integration start scan	: 152	Integration stop scan:	205
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

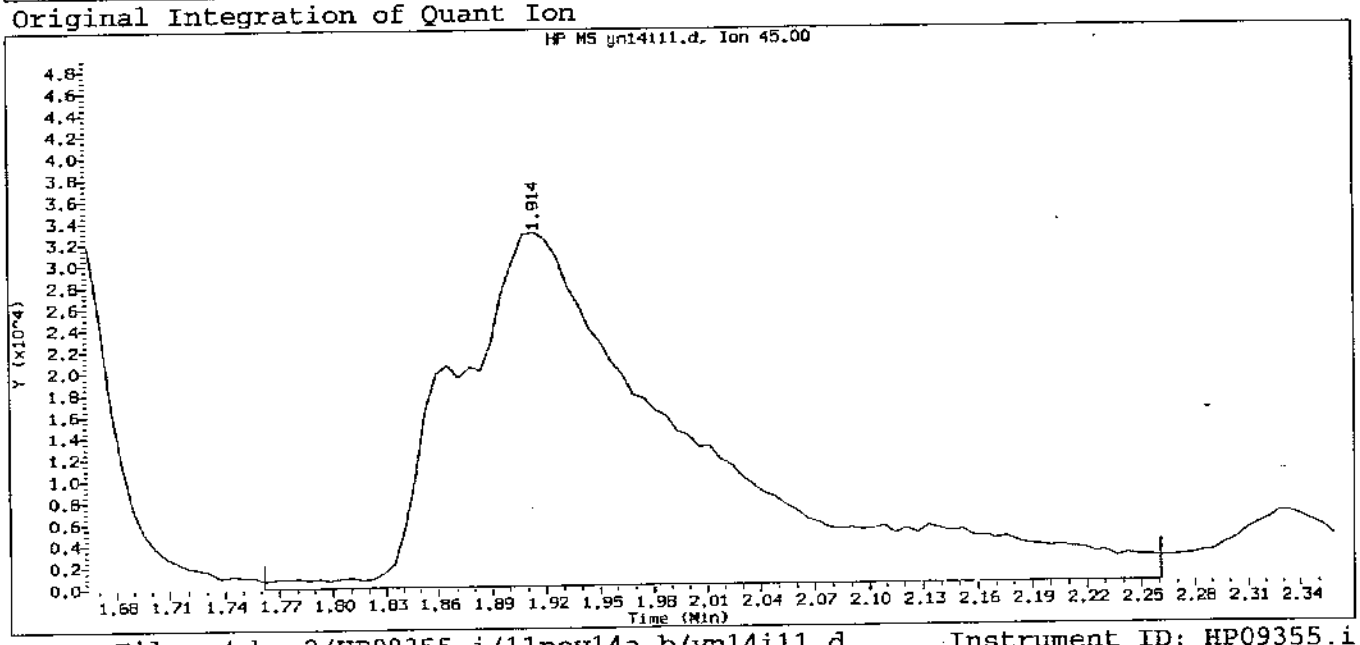
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 0212

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

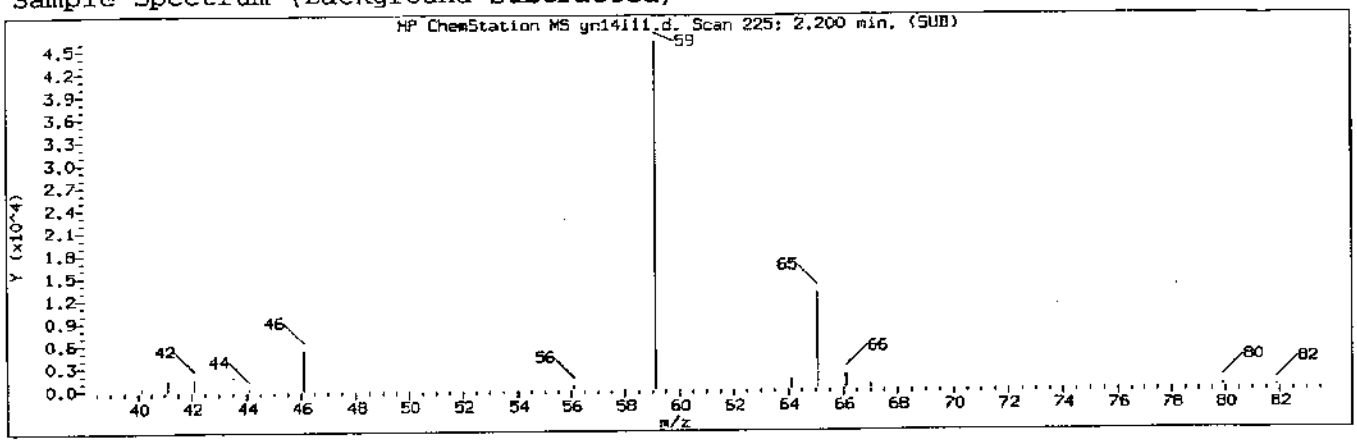
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 178		
Retention Time (minutes)	: 1.914		
Quant Ion	: 45.00		
Area	: 298617		
On-column Amount (ng)	: 215.4324		
Integration start scan	: 152	Integration stop scan:	234
Y at integration start	: 0	Y at integration end:	0

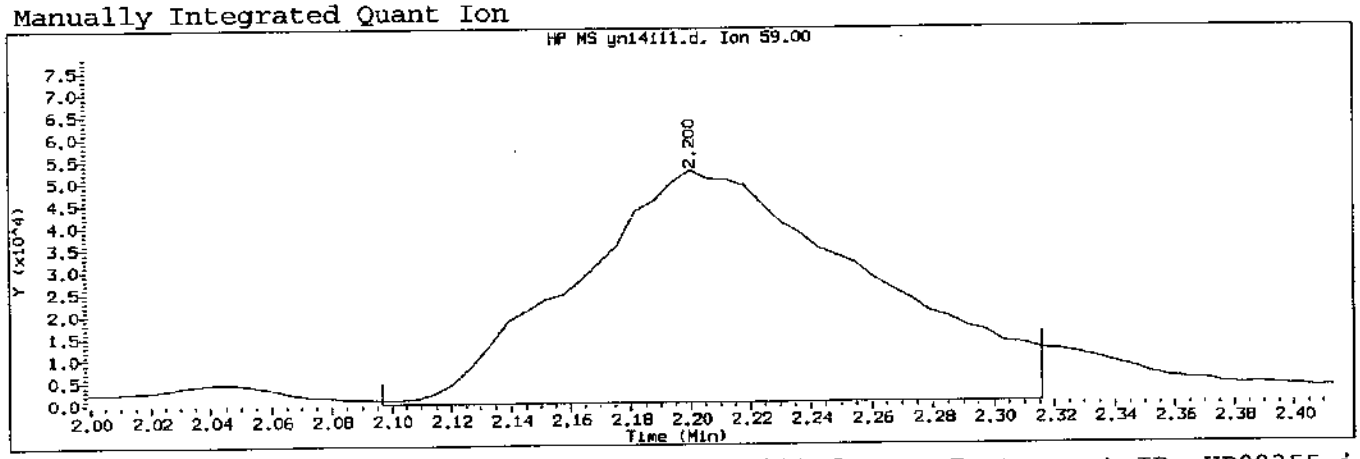
PCH#5 #213

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 17:33 fav02618

Sample Name: VSTD020 Lab Sample ID: VSTD020

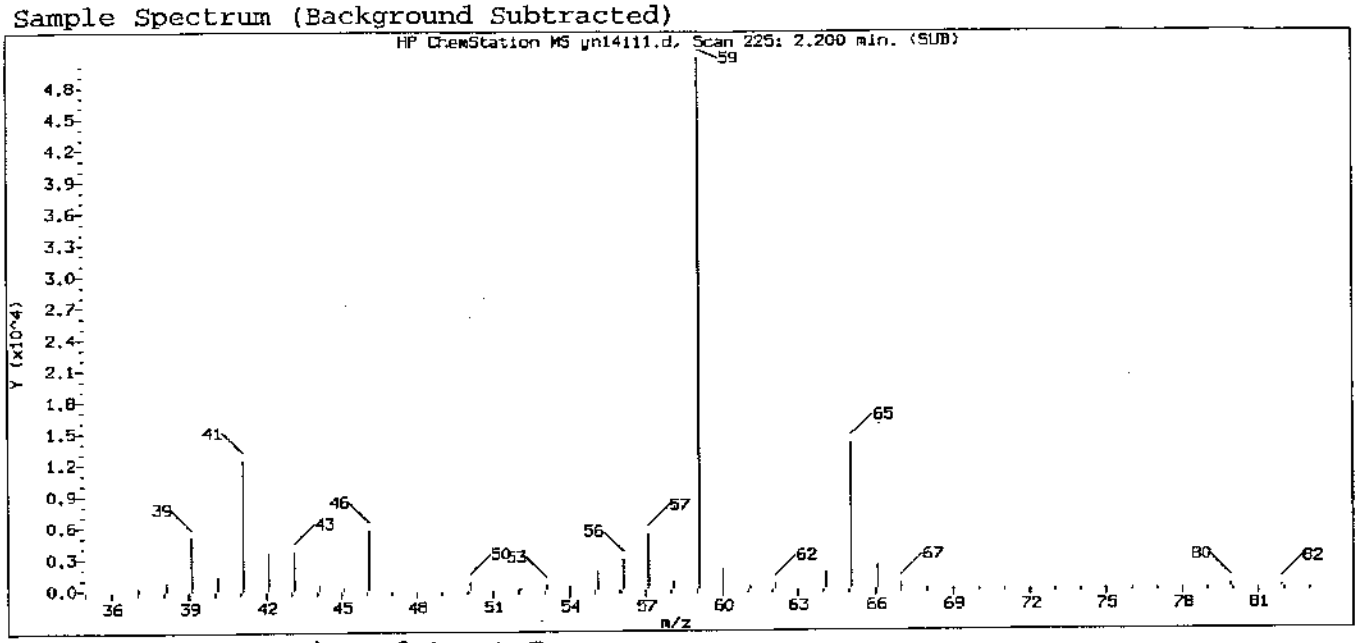
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 225		
Retention Time (minutes)	: 2.200		
Quant Ion	: 59.00		
Area (flag)	: 351557M		
On-Column Amount (ng)	: 199.6953		
Integration start scan	: 207	Integration stop scan:	243
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

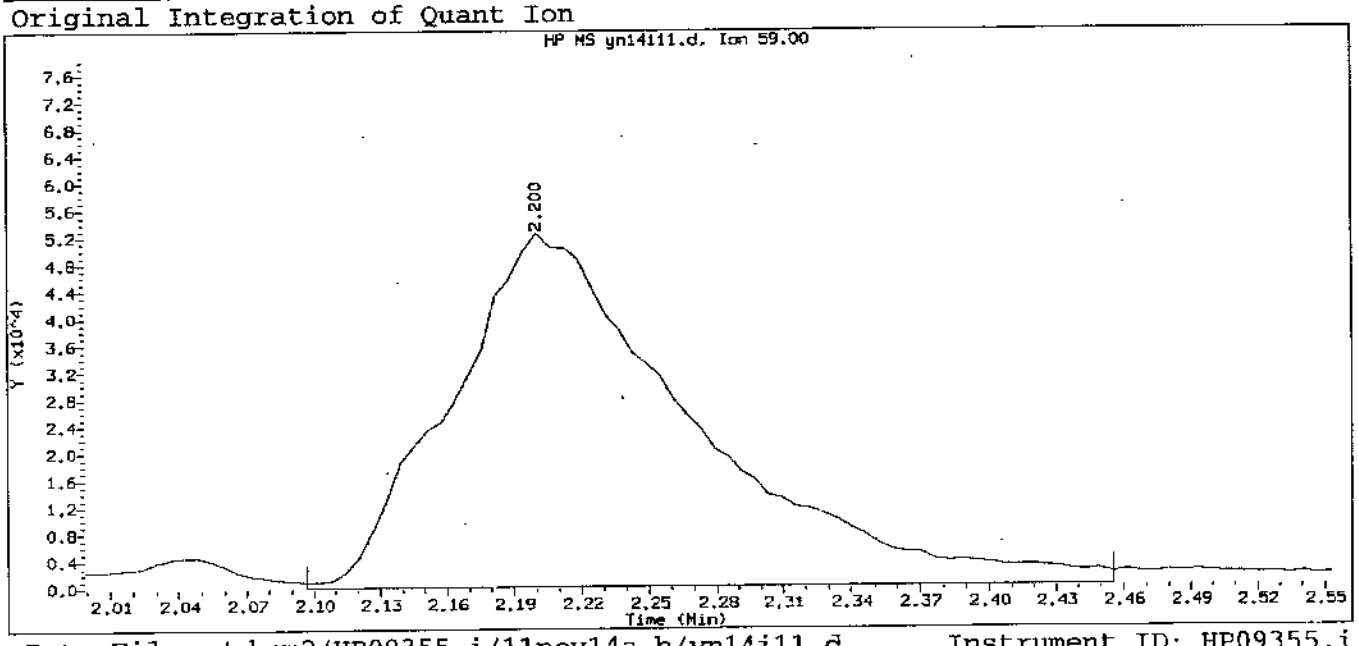
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH69 8214

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i11.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 15:49 Analyst ID: NRR01826

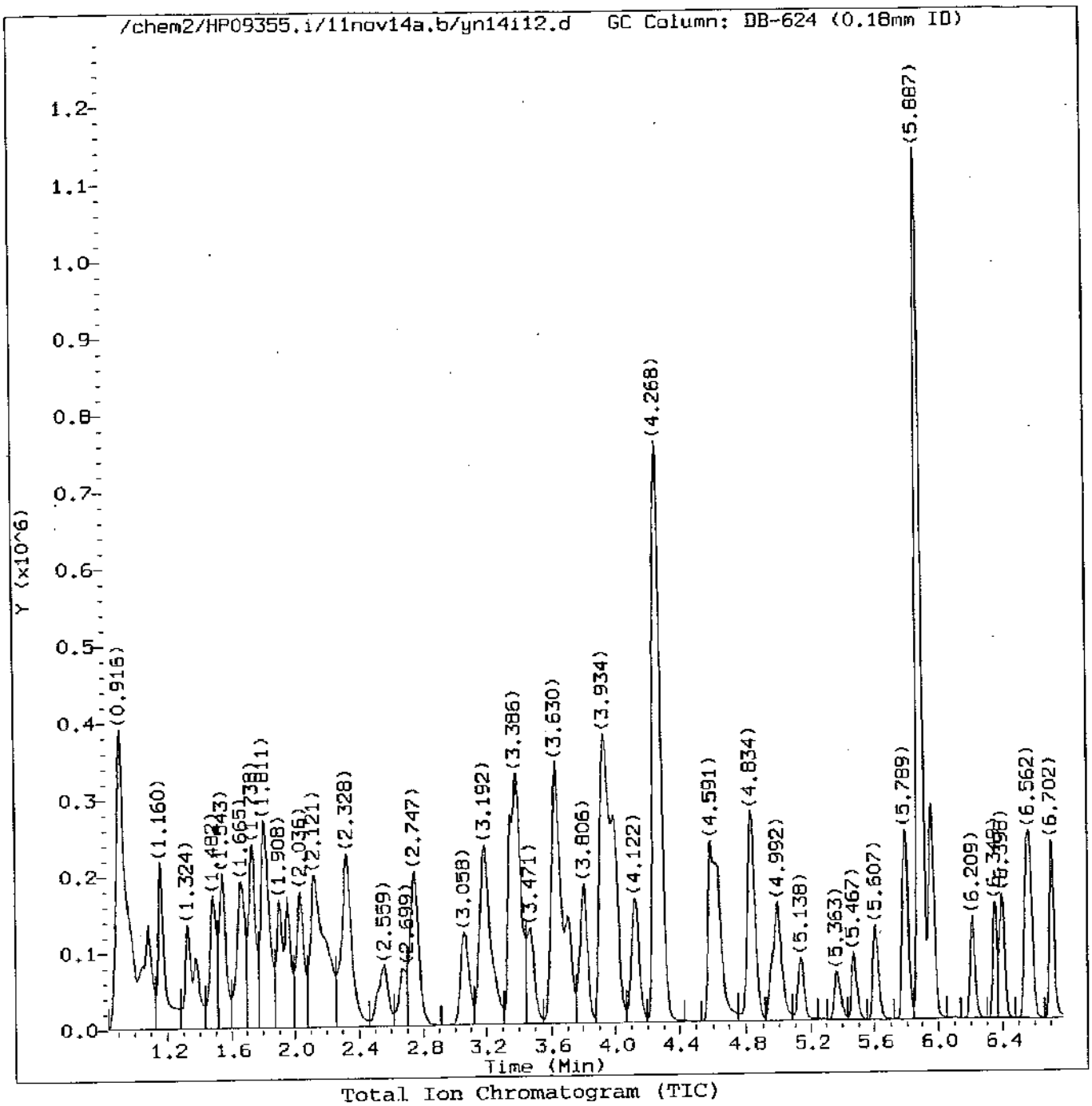
Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:12
Date, time and analyst ID of latest file update: 14-Nov-2011 16:12 nrr01826

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 225		
Retention Time (minutes)	: 2.200		
Quant Ion	: 59.00		
Area	: 391858		
On-column Amount (ng)	: 210.7339		
Integration start scan	: 207	Integration stop scan:	266
Y at integration start	: 0	Y at integration end:	0

PCH09 #215

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:29.
Target 3.5 esignature user ID: fav02618



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d
Injection date and time: 14-NOV-2011 16:10

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:25

Sublist used: 8260WI

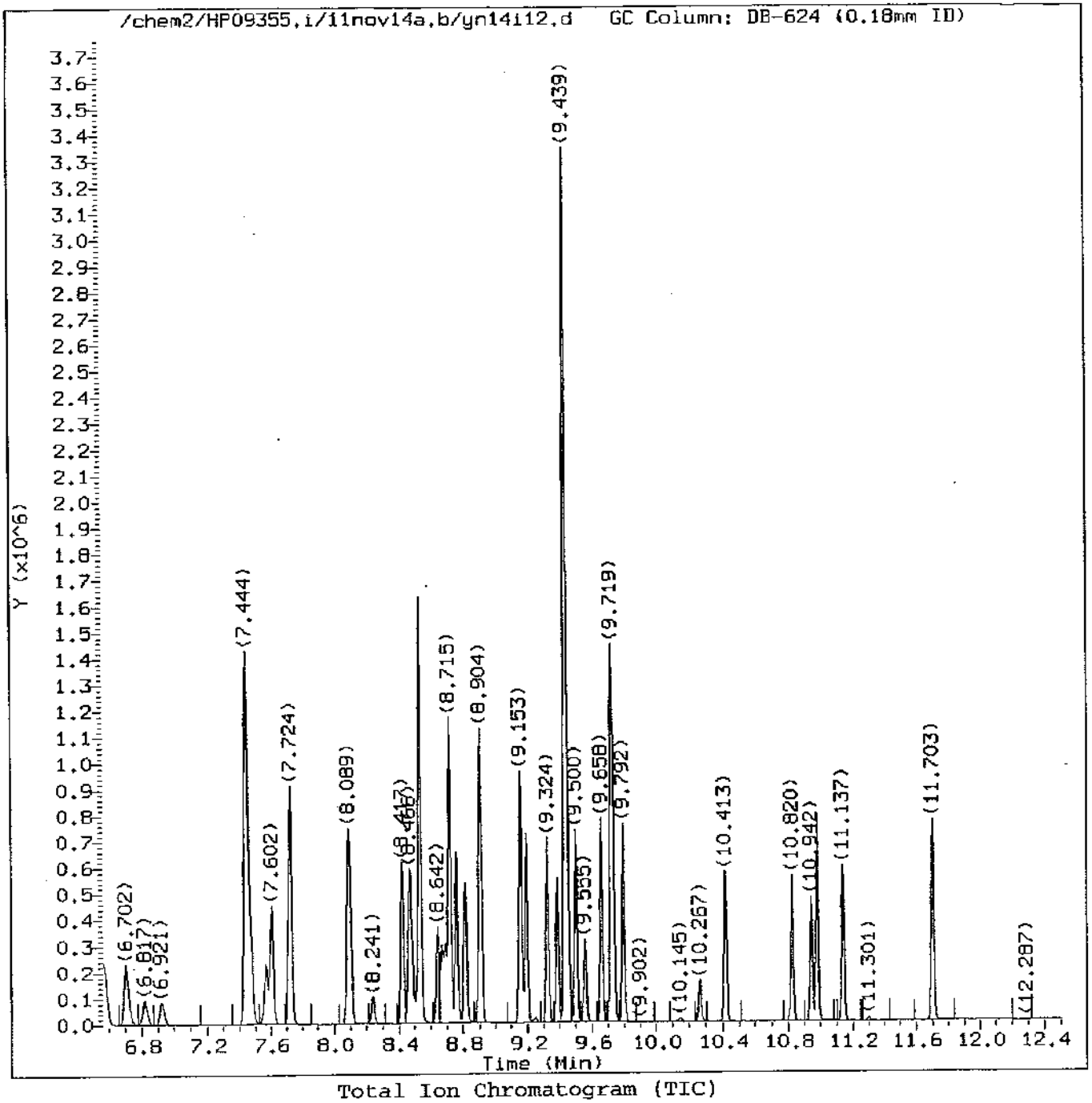
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sample Name: VSTD010

Lab Sample ID: VSTD010

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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH89 0216



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d
Injection date and time: 14-NOV-2011 16:10

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sublist used: 8260WI

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH#9 #217

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.050	85	113649	10.119
3) Chloromethane	(1)	1.087	50	111631M	10.859
5) Vinyl Chloride	(1)	1.160	62	110879	10.712
4) 1,3-Butadiene	(1)	1.166	39	57422M	10.985
7) Bromomethane	(1)	1.324	94	86275	11.033
8) Chloroethane	(1)	1.373	64	65065	11.038
9) Dichlorofluoromethane	(1)	1.482	67	162038	10.704
10) Trichlorofluoromethane	(1)	1.543	101	151775M	9.571
11) n-Pentane	(1)	1.543	43	96368	9.631
13) Ethyl Ether	(1)	1.659	59	64769	10.336
14) Freon 123a	(1)	1.665	67	100456	10.742
15) Acrolein	(4)	1.738	56	320361	105.704
16) 1,1-Dichloroethene	(1)	1.805	96	76577	10.437
18) Freon 113	(1)	1.829	101	76133	9.886
17) Acetone	(1)	1.835	58	37423	22.511
20) Methyl Iodide	(1)	1.908	142	155680	10.420
21) 2-Propanol	(4)	1.914	45	138568	112.943
22) Carbon Disulfide	(1)	1.957	76	208451	9.770
24) Allyl Chloride	(1)	2.036	41	113988	11.018
25) Methyl Acetate	(1)	2.042	43	108354	10.875
26) Methylene Chloride	(1)	2.121	84	64959	10.364
28)*t-Butyl Alcohol-d10	(4)	2.145	65	378275	250.000
29) t-Butyl Alcohol	(4)	2.206	59	181166M	108.032
30) Acrylonitrile	(1)	2.297	53	48755	10.737
31) trans-1,2-Dichloroethene	(1)	2.328	96	61627	10.237
32) Methyl Tertiary Butyl Ether	(1)	2.334	73	201996	10.338
33) n-Hexane	(1)	2.559	57	83236	10.024
34) 1,1-Dichloroethane	(1)	2.668	63	108967	10.330
36) di-Isopropyl Ether	(1)	2.741	45	197374	10.396
37) 2-Chloro-1,3-Butadiene	(1)	2.754	53	95883	10.180
39) Ethyl t-Butyl Ether	(1)	3.064	59	194714	10.386
41) 2-Butanone	(1)	3.161	43	133327	21.476
40) cis-1,2-Dichloroethene	(1)	3.179	96	67159	10.231
42) 2,2-Dichloropropane	(1)	3.192	77	88307	10.021
43) Propionitrile	(4)	3.204	54	186384	102.043
46) Methacrylonitrile	(1)	3.350	67	213826	50.873
47) Bromochloromethane	(1)	3.398	128	35736	10.119
48) Tetrahydrofuran	(4)	3.417	71	34882	20.229

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

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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 8218

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Chloroform	(1)	3.478	83	107609	10.198
51)$Dibromofluoromethane(mz111)	(1)	3.624	111	268779	50.225
52)$Dibromofluoromethane	(1)	3.624	113	264626	50.370
45) 1,2-Dichloroethene (total)	(1)		96	128786	20.469
53) 1,1,1-Trichloroethane	(1)	3.648	97	119258	11.144
55) Cyclohexane (mz 69)	(1)	3.703	69	30976	9.953
54) Cyclohexane (mz 84)	(1)	3.709	84	87455	10.001
56) Cyclohexane	(1)	3.709	56	101401	10.099
57) 1,1-Dichloropropene	(1)	3.800	75	84751	10.227
58) Carbon Tetrachloride	(1)	3.812	117	82698	9.869
59) Isobutyl Alcohol	(4)	3.922	41	141679	252.136
61)$1,2-Dichloroethane-d4(mz65)	(1)	3.934	65	342868	49.860
62)$1,2-Dichloroethane-d4	(1)	3.934	102	65057	50.476
60)$1,2-Dichloroethane-d4(mz104)	(1)	3.940	104	40873	50.080
63) Benzene	(1)	3.995	78	246647	10.245
64) 1,2-Dichloroethane (mz 98)	(1)	4.007	98	8006	10.329
65) 1,2-Dichloroethane	(1)	4.007	62	97006	10.182
69) t-Amyl Methyl Ether	(1)	4.122	73	181060	9.827
71)*Fluorobenzene	(1)	4.268	96	1061169	50.000
72) n-Heptane	(1)	4.274	43	90387	9.589
73) n-Butanol	(4)	4.585	56	229322	501.928
74) Trichloroethene	(1)	4.633	95	65998	10.160
76) Methylcyclohexane	(1)	4.828	83	104414	9.716
75) Methylcyclohexane (mz98)	(1)	4.834	98	48687	9.748
77) 1,2-Dichloropropane	(1)	4.846	63	63900	10.172
78) Dibromomethane	(1)	4.956	93	44204	10.072
79) 1,4-Dioxane	(4)	4.986	88	40155	269.934
80) Methyl Methacrylate	(1)	4.998	69	64600	10.047
83) Bromodichloromethane	(1)	5.138	83	73635	9.709
85) 2-Nitropropane	(1)	5.363	41	56091M	18.291
86) 2-Chloroethyl Vinyl Ether	(1)	5.467	63	48380	9.903
87) cis-1,3-Dichloropropene	(1)	5.607	75	89578	9.677
89) 4-Methyl-2-Pentanone	(1)	5.789	43	244642M	20.752
93)$Toluene-d8	(2)	5.887	98	1066524	50.418
92)$Toluene-d8(mz100)	(2)	5.887	100	680953	49.467
94) Toluene	(2)	5.960	92	159406	10.090
95) trans-1,3-Dichloropropene	(2)	6.209	75	83193	9.427
96) Ethyl Methacrylate	(2)	6.349	69	96937	9.836

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

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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 8219

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
97) 1,1,2-Trichloroethane	(2)	6.398	97	60973	10.054
98) Tetrachloroethene	(2)	6.550	166	77275	9.899
99) 1,3-Dichloropropane	(2)	6.574	76	102833	10.090
101) 2-Hexanone	(2)	6.702	43	193917	20.931
102) Dibromochloromethane	(2)	6.817	129	56141	8.960
104) 1,2-Dibromoethane	(2)	6.921	107	66266	9.974
106)*Chlorobenzene-d5	(2)	7.444	117	801924	50.000
107) Chlorobenzene	(2)	7.474	112	187808	10.167
108) 1,1,1,2-Tetrachloroethane	(2)	7.566	131	59395	9.509
109) Ethylbenzene	(2)	7.602	91	313324	10.106
110) m+p-Xylene	(2)	7.724	106	251490	19.249
113) o-Xylene	(2)	8.089	106	125236	9.601
114) Styrene	(2)	8.101	104	200596	9.430
112) Xylene (Total)	(2)		106	376726	28.850
115) Bromoform	(2)	8.241	173	40535	8.257
116) Isopropylbenzene	(2)	8.417	105	332392	10.187
118) Cyclohexanone	(4)	8.466	55	257846	422.662
120)$4-Bromofluorobenzene(mz174)	(2)	8.533	174	370723	50.041
119)$4-Bromofluorobenzene	(2)	8.533	95	399750	50.019
121) Bromobenzene	(3)	8.642	156	87986	10.670
122) 1,1,2,2-Tetrachloroethane	(3)	8.667	83	103290	10.595
123) 1,2,3-Trichloropropane	(3)	8.691	110	35170	10.614
124) trans-1,4-Dichloro-2-Butene	(3)	8.715	53	185628	52.493
125) n-Propylbenzene	(3)	8.758	91	385269	11.134
126) 2-Chlorotoluene	(3)	8.813	126	81373	10.634
128) 4-Chlorotoluene	(3)	8.898	126	85615	10.266
127) 1,3,5-Trimethylbenzene	(3)	8.910	105	284788	10.496
130) tert-Butylbenzene	(3)	9.153	134	66644	10.127
131) Pentachloroethane	(3)	9.160	167	44974	9.057
132) 1,2,4-Trimethylbenzene	(3)	9.190	105	290832	10.730
133) sec-Butylbenzene	(3)	9.324	105	354692	10.865
134) 1,3-Dichlorobenzene	(3)	9.385	146	172002	10.631
135) p-Isopropyltoluene	(3)	9.439	119	336885	10.749
136)*1,4-Dichlorobenzene-d4	(3)	9.439	152	521101	50.000
138) 1,4-Dichlorobenzene	(3)	9.452	146	183139	10.550
139) 1,2,3-Trimethylbenzene	(3)	9.500	105	298135	10.750
141) Benzyl Chloride	(3)	9.561	91	172153	9.484
142) 1,3-Diethylbenzene	(3)	9.658	119	186128	10.447

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

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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 8226

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

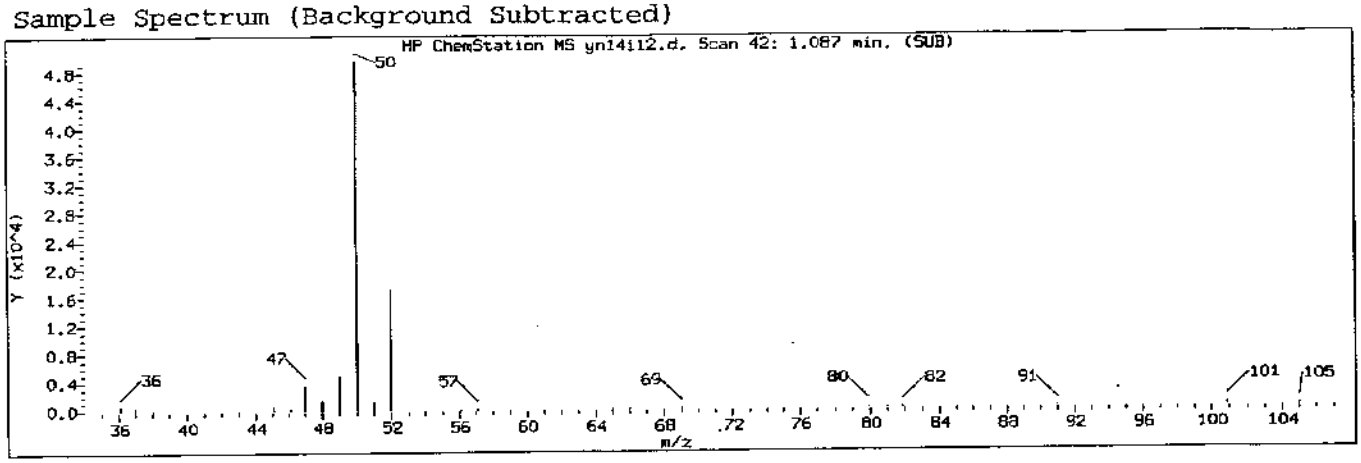
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
143) 1,4-Diethylbenzene	(3)	9.713	119	201006	10.239
144) 1,2-Dichlorobenzene	(3)	9.719	146	173984	10.121
145) n-Butylbenzene	(3)	9.731	92	157102	10.258
146) 1,2-Diethylbenzene	(3)	9.792	119	161604	10.467
148) 1,2-Dibromo-3-Chloropropane	(3)	10.267	75	25728	9.922
149) 1,3,5-Trichlorobenzene	(3)	10.419	180	137495	10.449
150) 1,2,4-Trichlorobenzene	(3)	10.826	180	127504	10.464
151) Hexachlorobutadiene	(3)	10.942	225	60190	10.290
152) Naphthalene	(3)	10.979	128	428777	11.136
153) 1,2,3-Trichlorobenzene	(3)	11.137	180	124369	10.341
154) 2-Methylnaphthalene	(3)	11.703	142	254101	10.570

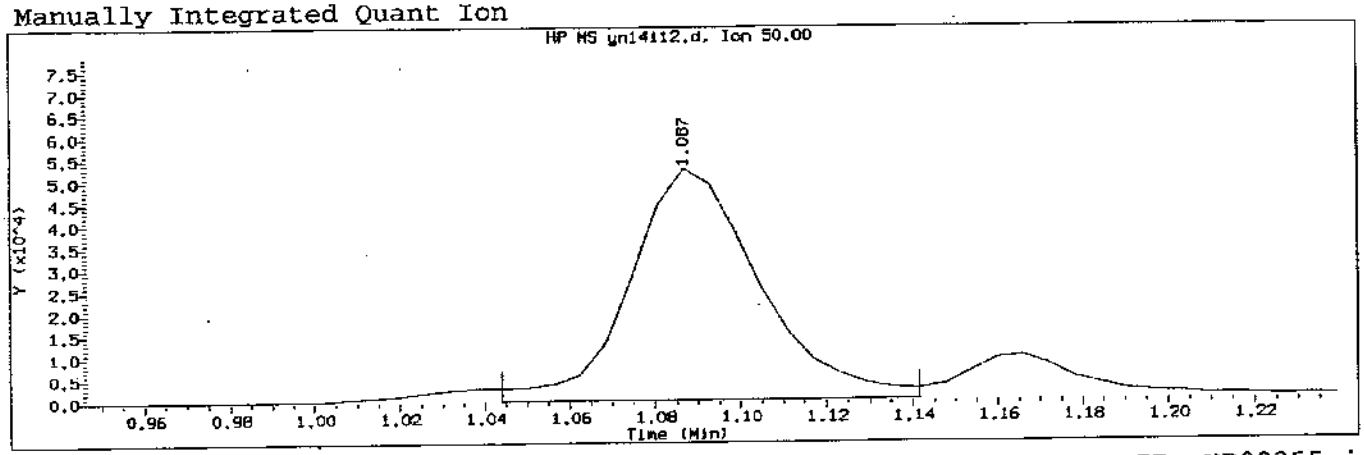
Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH89 0221

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sample Name: VSTD010 Lab Sample ID: VSTD010

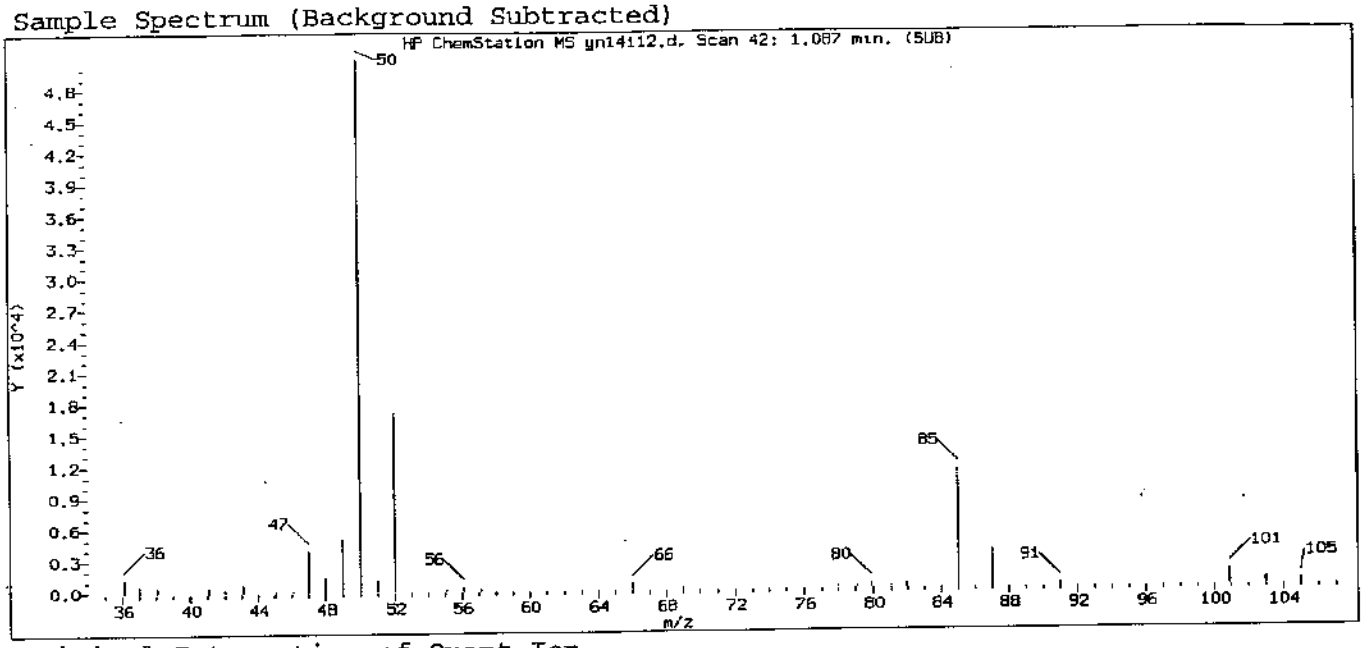
Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 42		
Retention Time (minutes)	: 1.087		
Quant Ion	: 50.00		
Area (flag)	: 111631M		
On-Column Amount (ng)	: 10.8592		
Integration start scan	: 34	Integration stop scan:	50
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

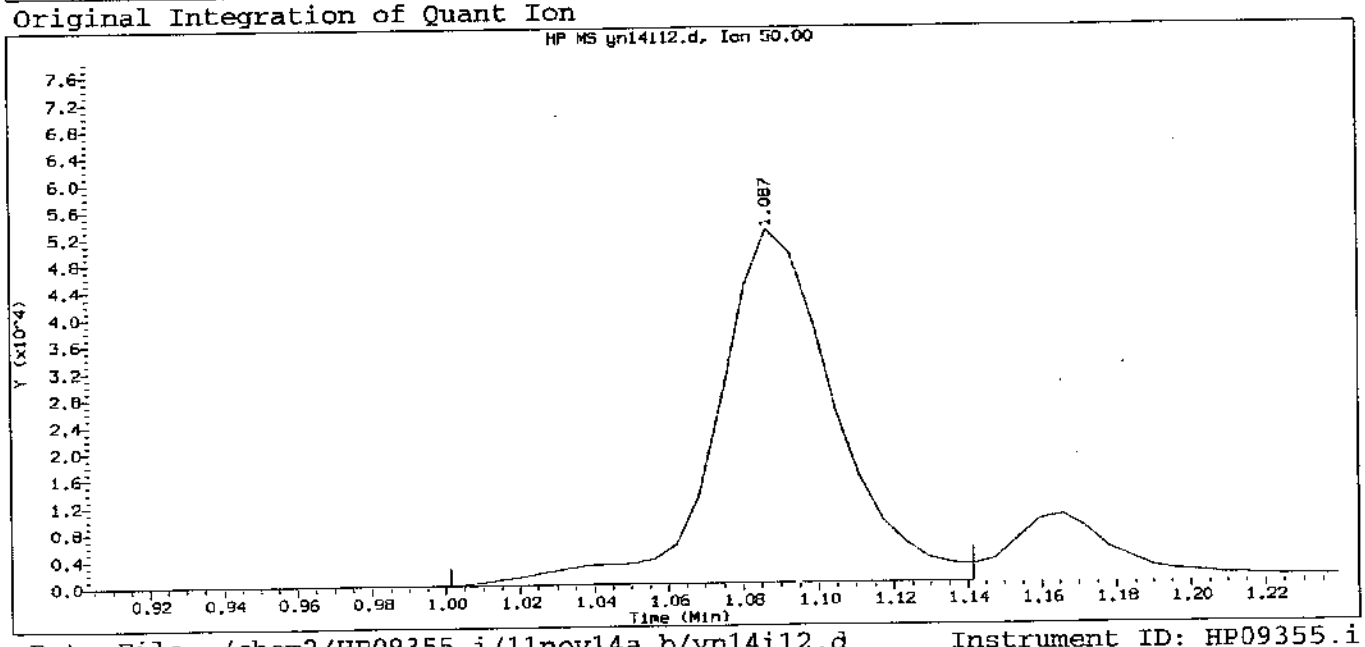
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8222

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 16:25 Automation

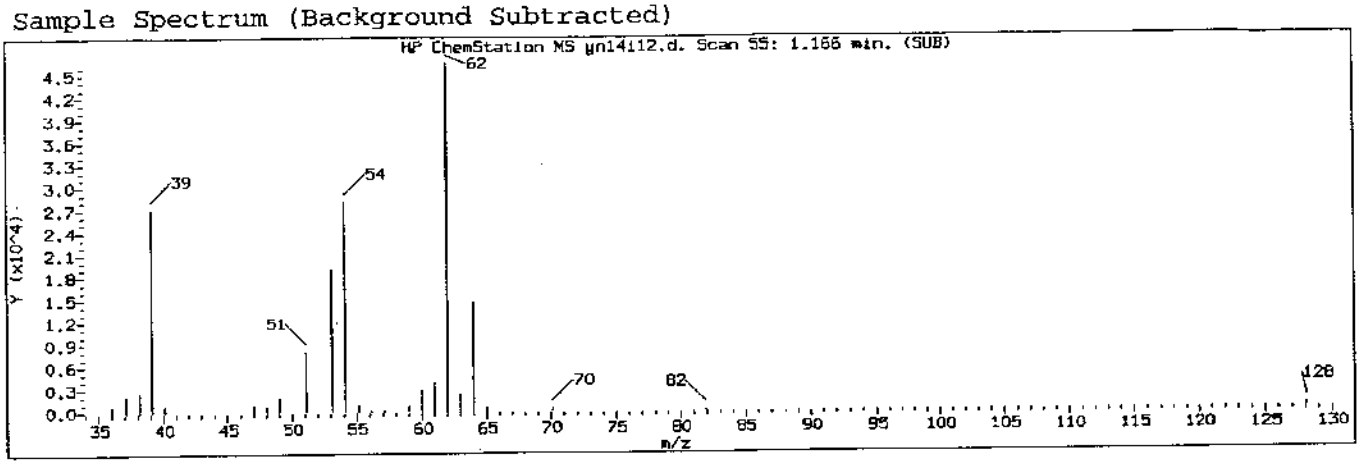
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 42		
Retention Time (minutes)	: 1.087		
Quant Ion	: 50.00		
Area	: 114569		
On-column Amount (ng)	: 11.1456		
Integration start scan	: 27	Integration stop scan:	50
Y at integration start	: 0	Y at integration end:	0

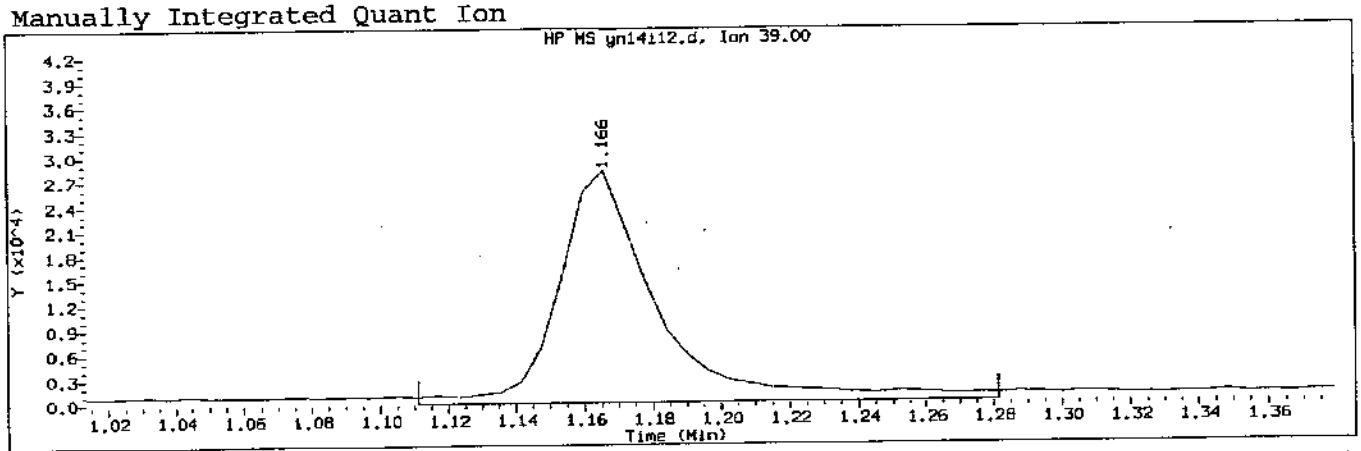
PCH89 8223

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sample Name: VSTD010 Lab Sample ID: VSTD010

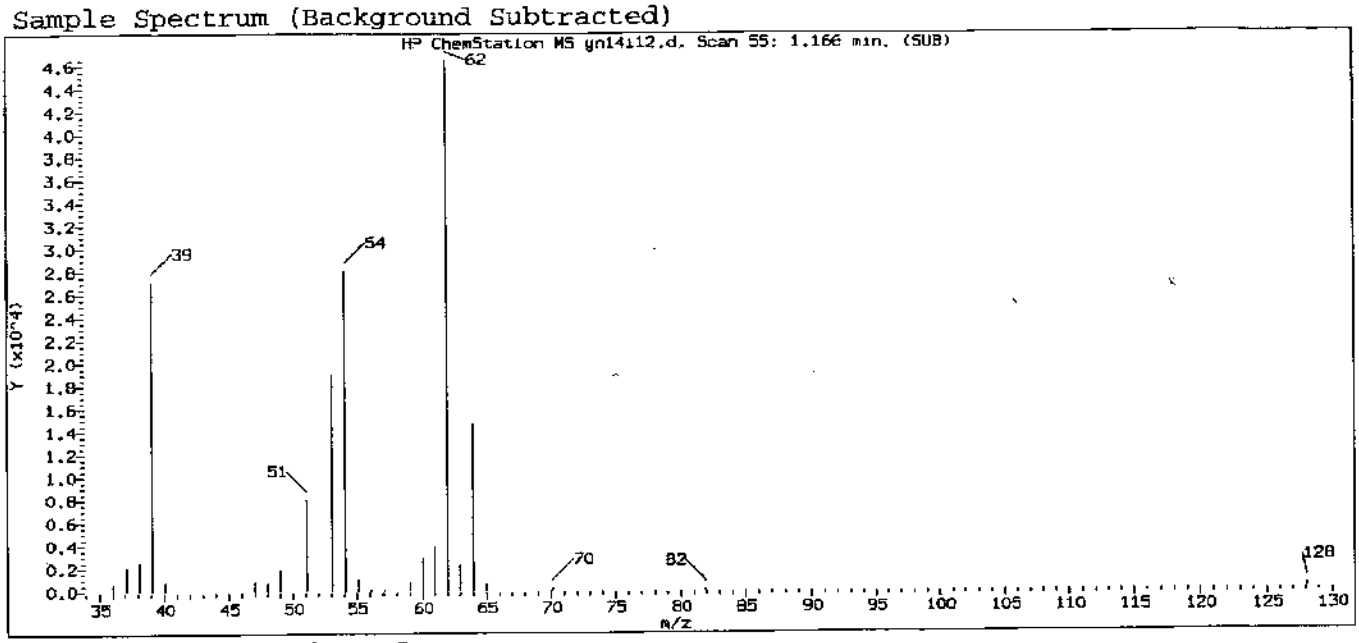
Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area (flag)	: 57422M		
On-Column Amount (ng)	: 10.9850		
Integration start scan	: 45	Integration stop scan:	73
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

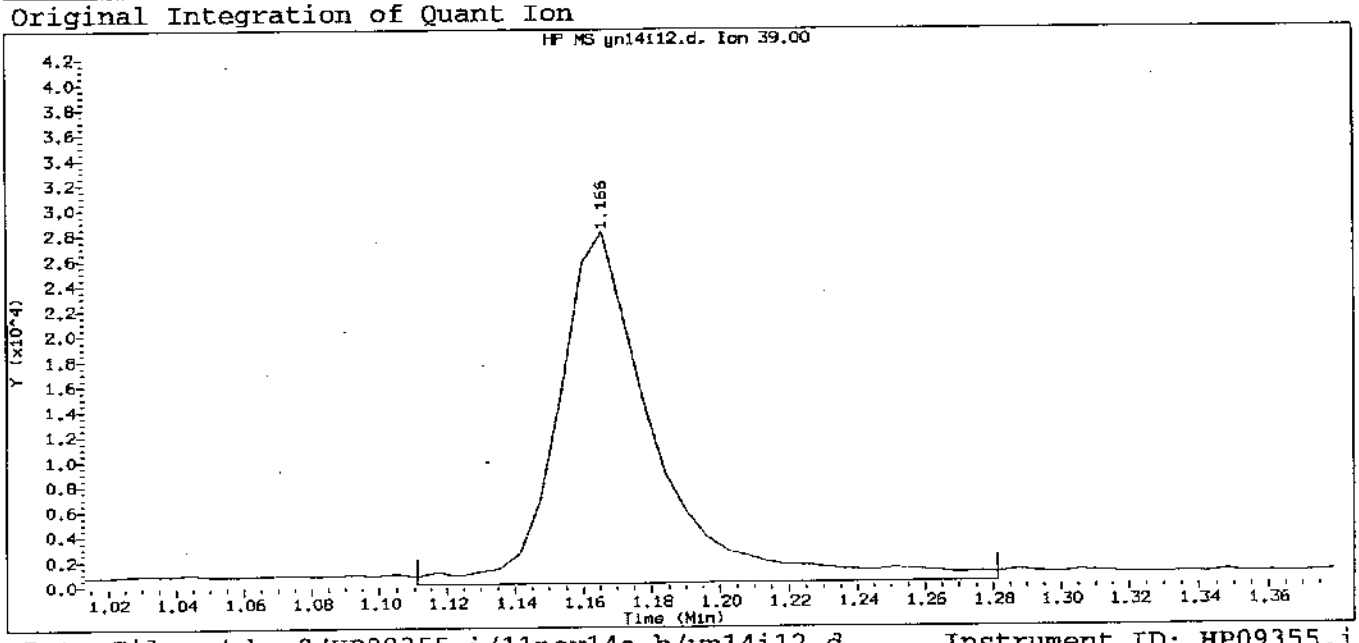
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/14/11 PCH89 6224

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 16:25 Automation

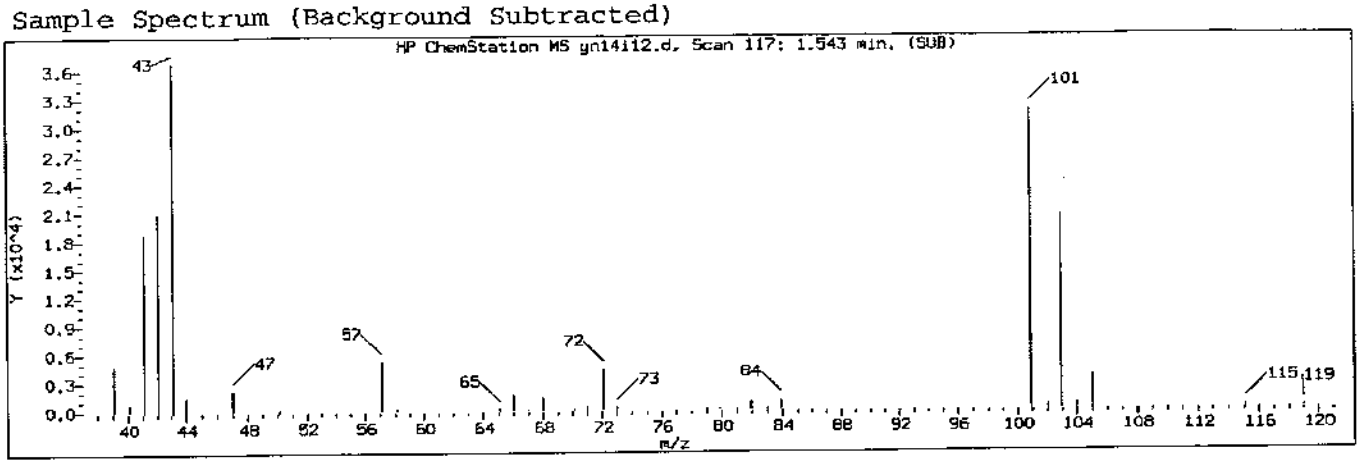
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area	: 55547		
On-column Amount (ng)	: 11.4482		
Integration start scan	: 45	Integration stop scan:	73
Y at integration start	: 121	Y at integration end:	187

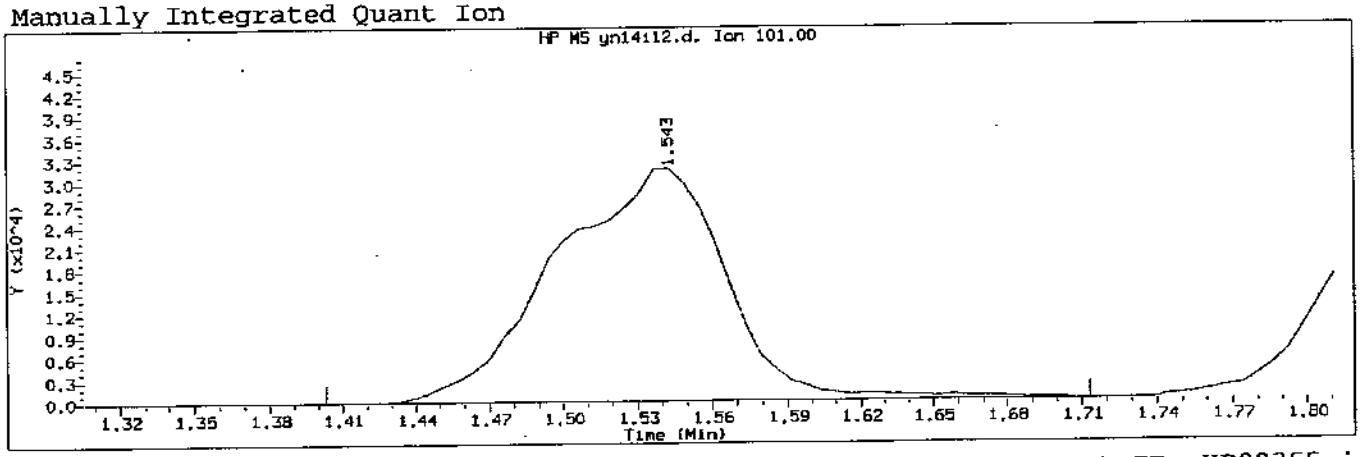
PCH69 8225

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sample Name: VSTD010 Lab Sample ID: VSTD010

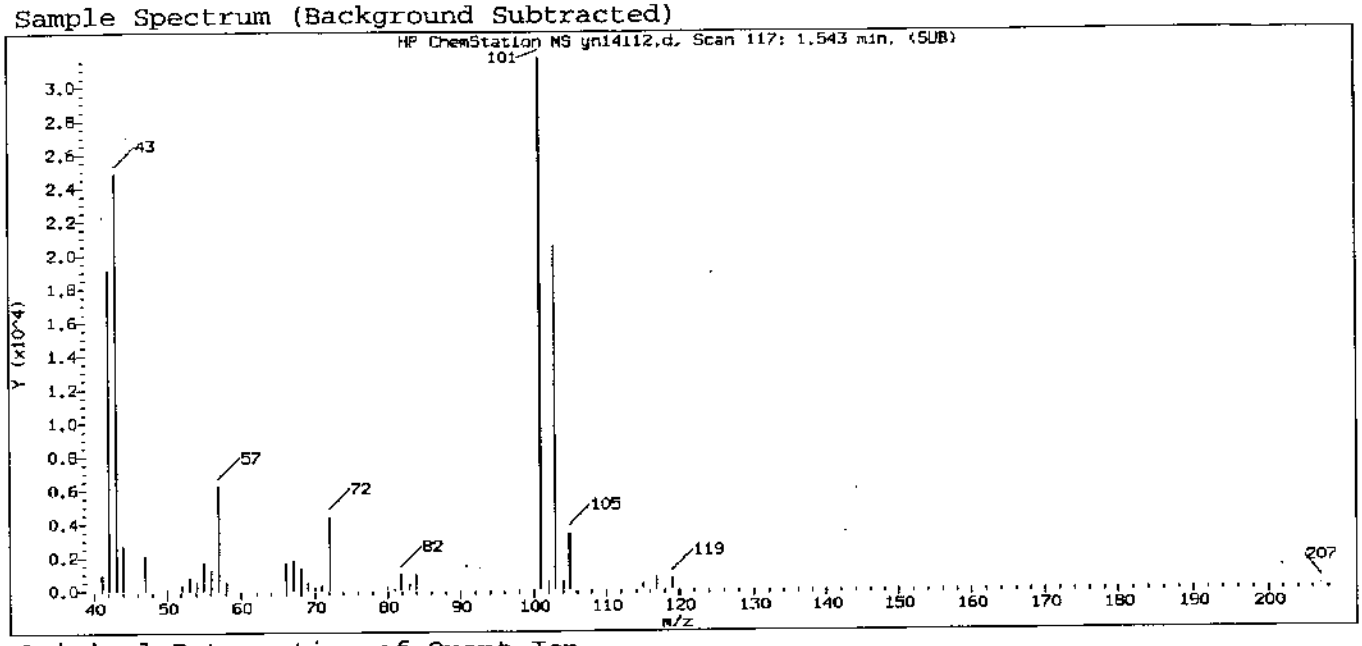
Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 117		
Retention Time (minutes)	: 1.543		
Quant Ion	: 101.00		
Area (flag)	: 151775M		
On-Column Amount (ng)	: 9.5706		
Integration start scan	: 93	Integration stop scan:	144
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

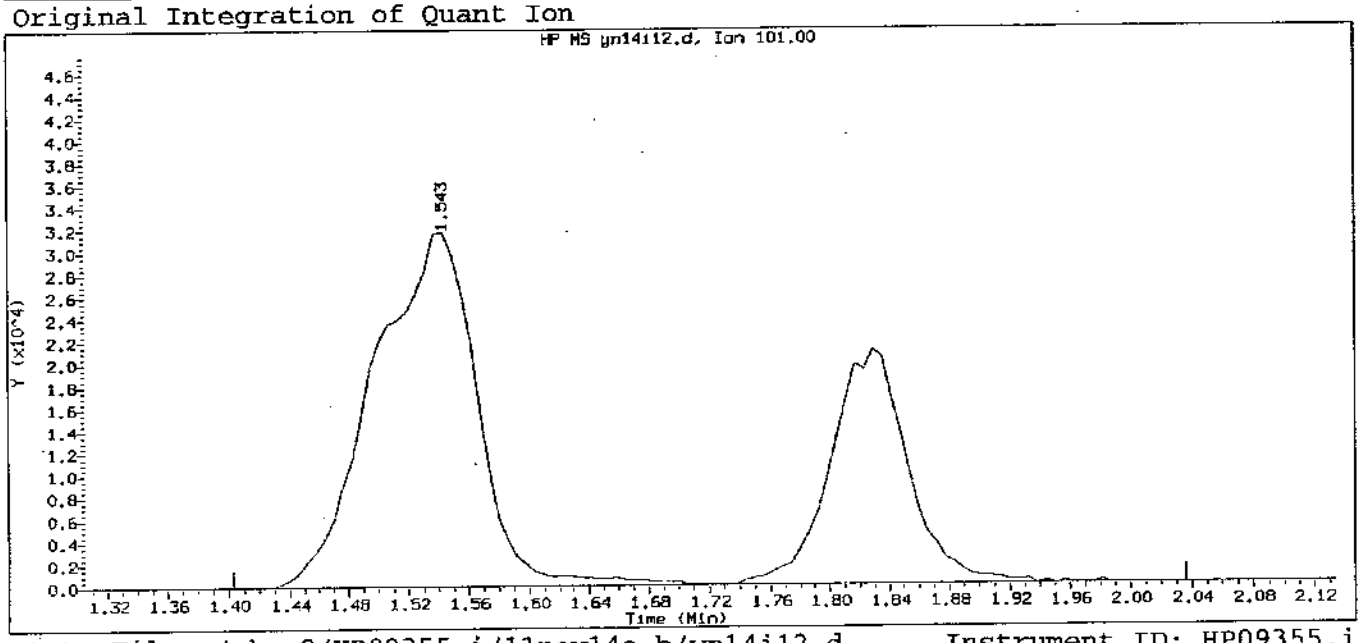
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/14/11 PCH09 6226

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 16:25 Automation

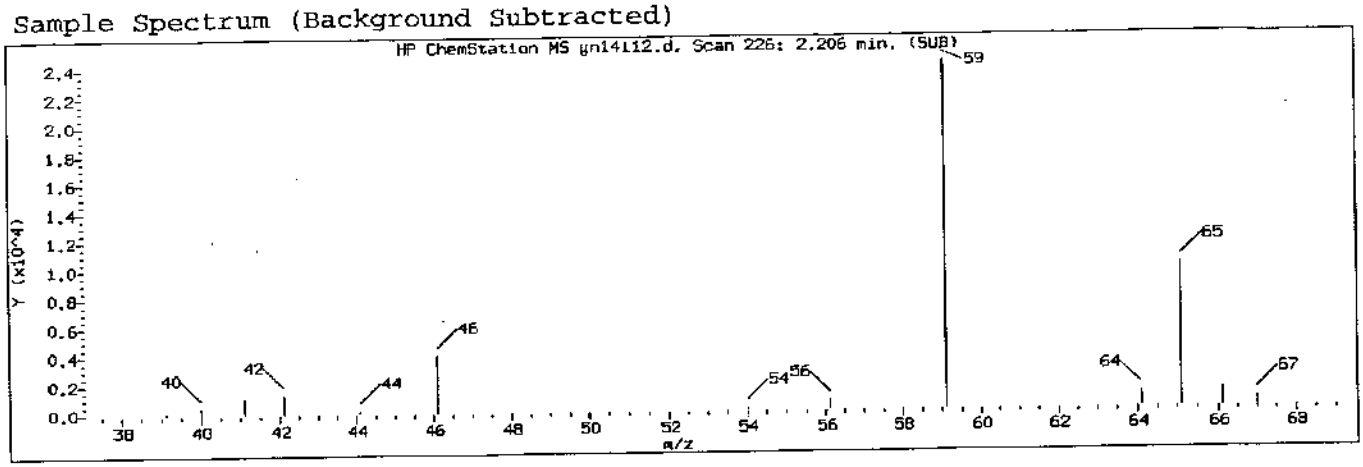
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 117		
Retention Time (minutes)	: 1.543		
Quant Ion	: 101.00		
Area	: 227909		
On-column Amount (ng)	: 11.1765		
Integration start scan	: 93	Integration stop scan:	197
Y at integration start	: 0	Y at integration end:	0

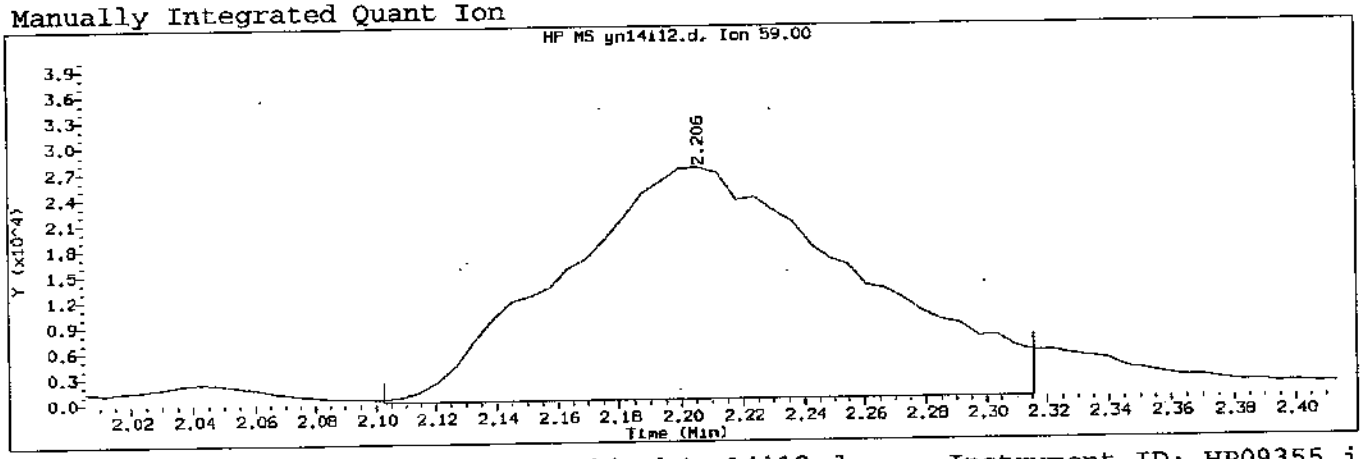
PCH89 8227

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30:
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sample Name: VSTD010 Lab Sample ID: VSTD010

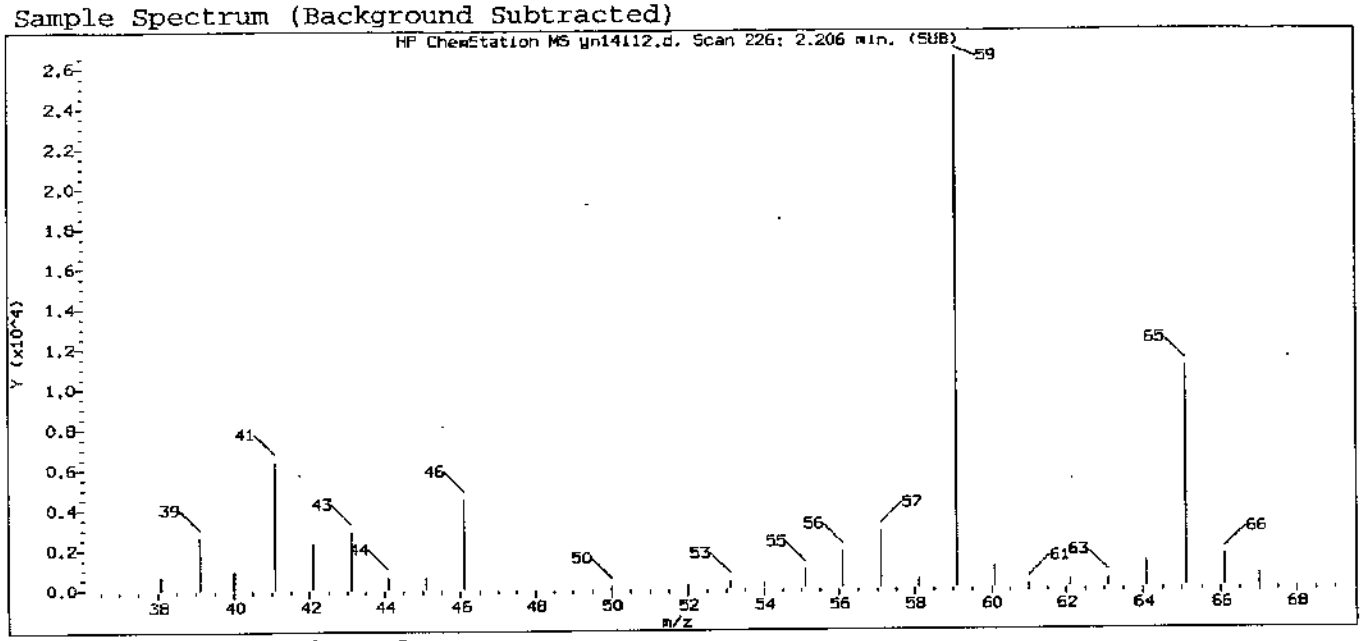
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 226		
Retention Time (minutes)	: 2.206		
Quant Ion	: 59.00		
Area (flag)	: 181166M		
On-Column Amount (ng)	: 108.0316		
Integration start scan	: 208	Integration stop scan:	243
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

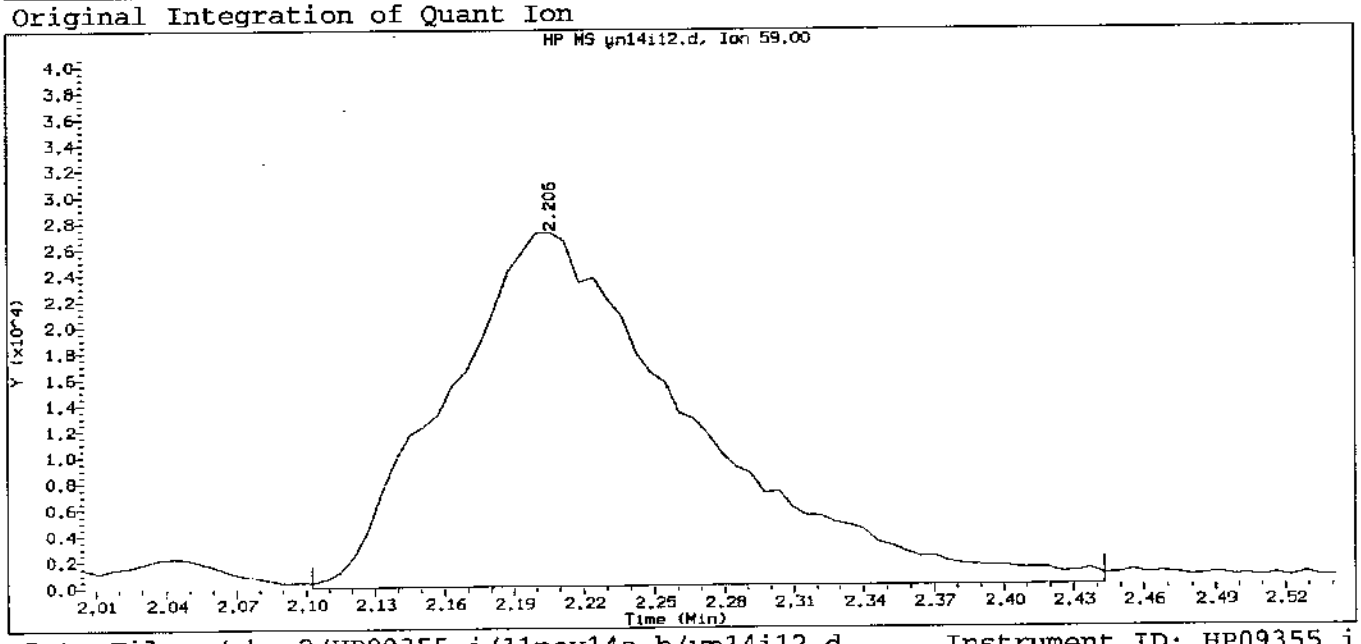
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 8228

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 16:25 Automation

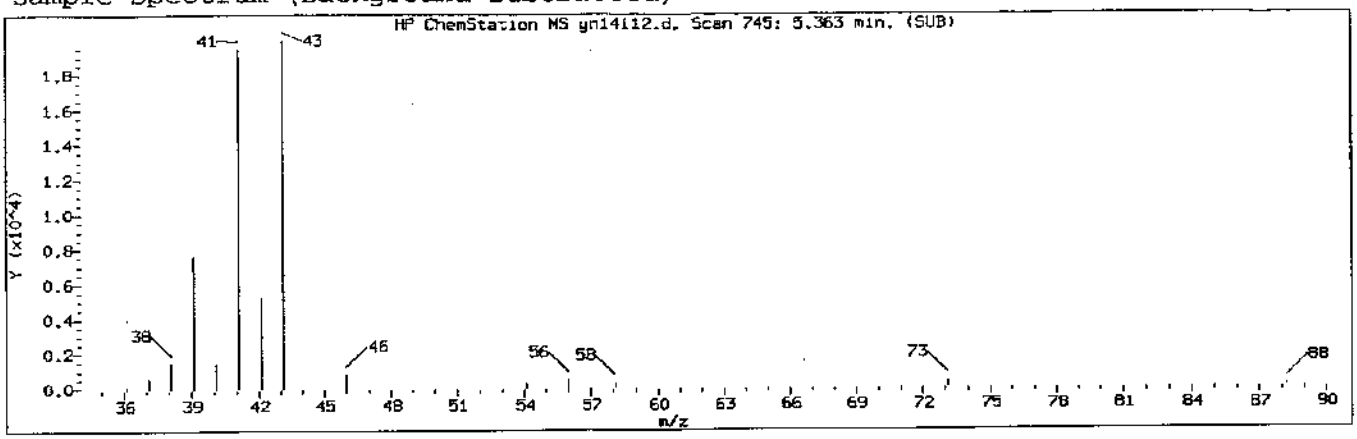
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 226		
Retention Time (minutes)	: 2.206		
Quant Ion	: 59.00		
Area	: 198448		
On-column Amount (ng)	: 107.9532		
Integration start scan	: 208	Integration stop scan:	264
Y at integration start	: 0	Y at integration end:	0

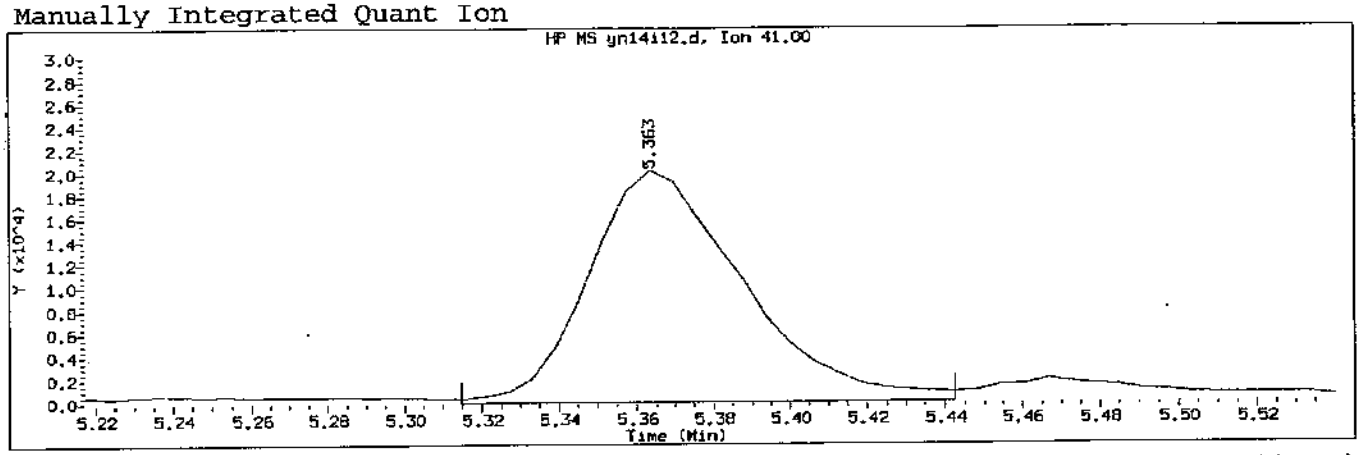
PCH09 0229

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sample Name: VSTD010 Lab Sample ID: VSTD010

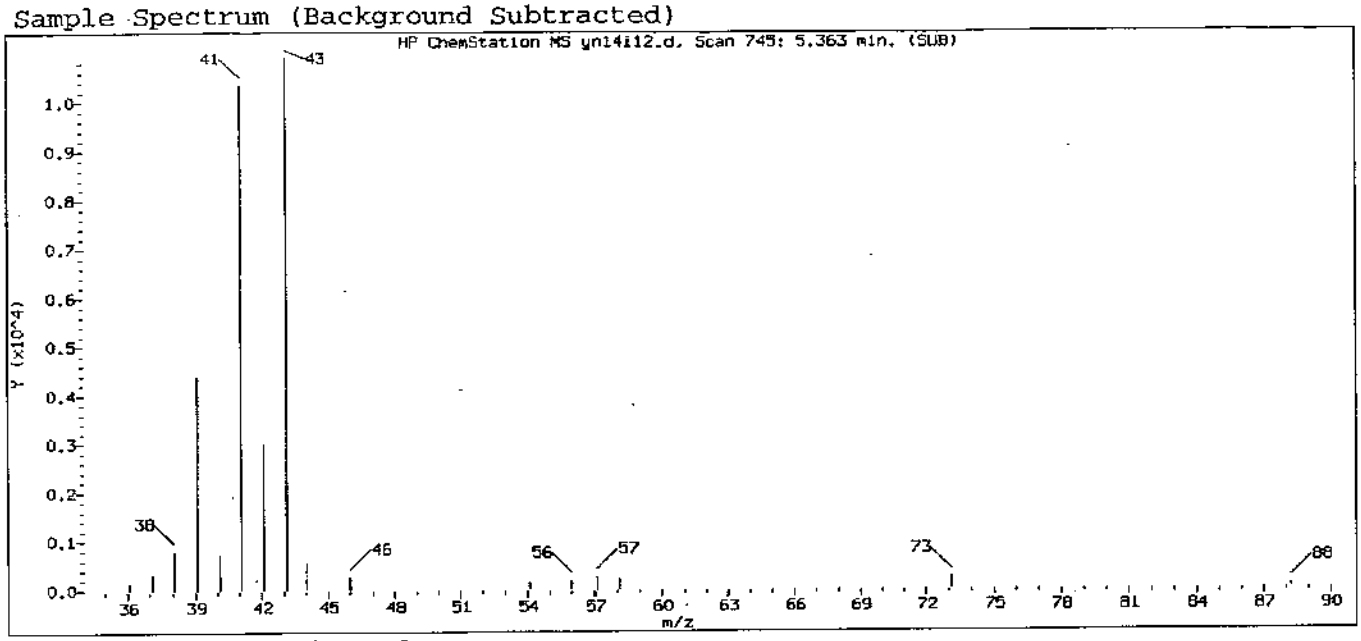
Compound Number	: 85		
Compound Name	: 2-Nitropropane		
Scan Number	: 745		
Retention Time (minutes)	: 5.363		
Quant Ion	: 41.00		
Area (flag)	: 56091M		
On-Column Amount (ng)	: 18.2910		
Integration start scan	: 736	Integration stop scan:	757
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

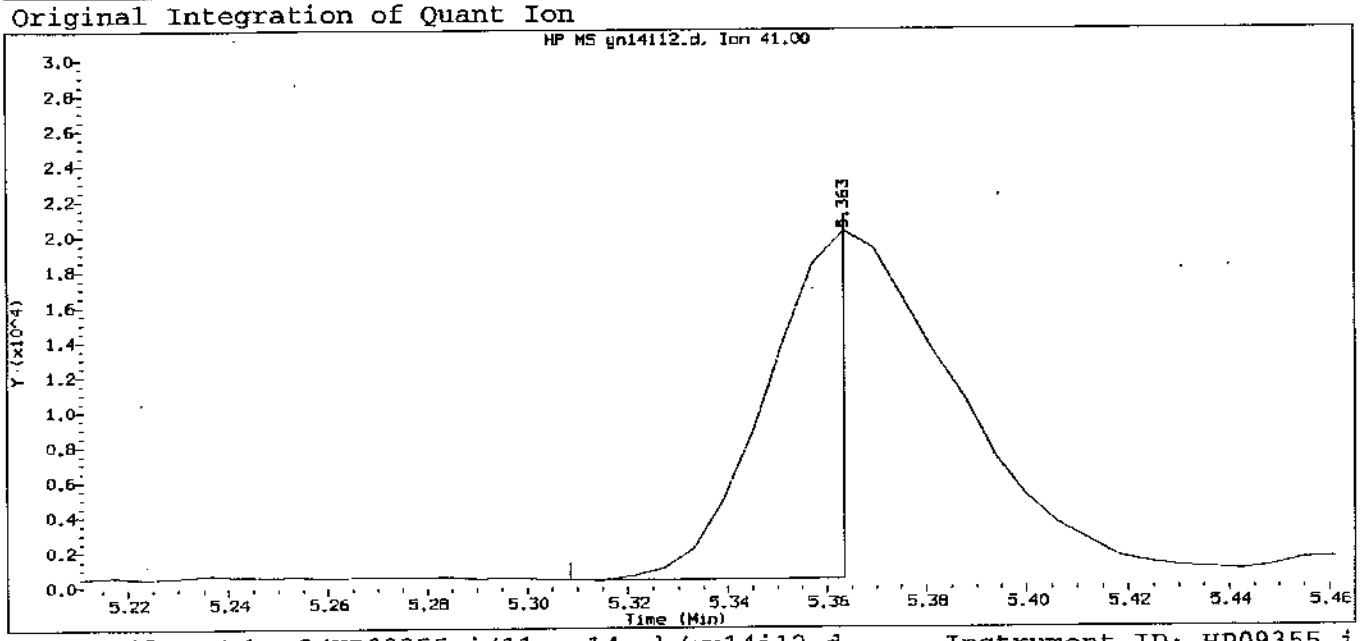
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8230

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 16:25 Automation

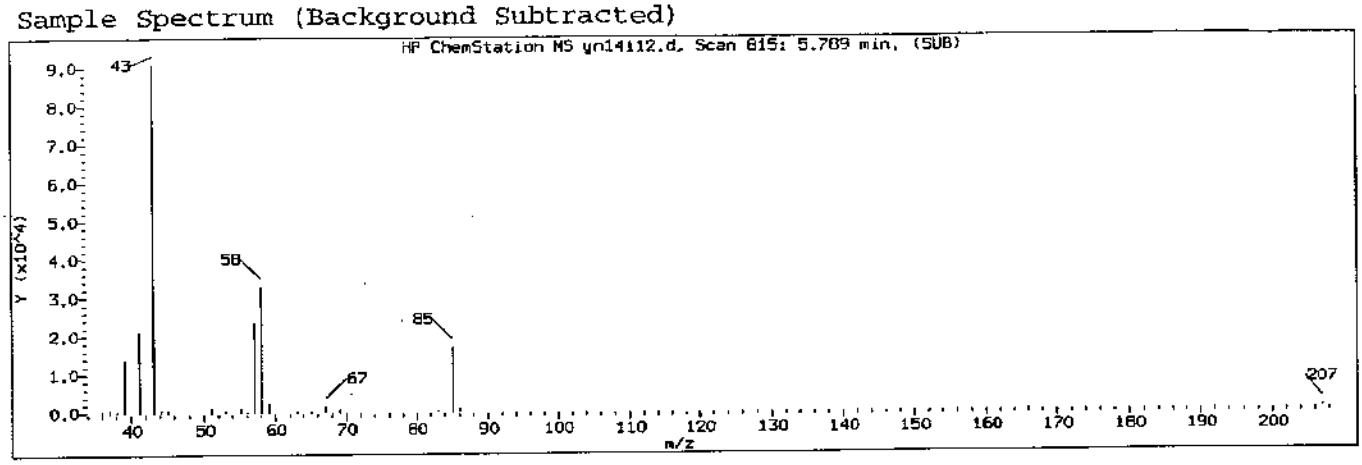
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 85		
Compound Name	: 2-Nitropropane		
Scan Number	: 745		
Retention Time (minutes)	: 5.363		
Quant Ion	: 41.00		
Area	: 20865		
On-column Amount (ng)	: 7.5695		
Integration start scan	: 735	Integration stop scan:	744
Y at integration start	: 345	Y at integration end:	345

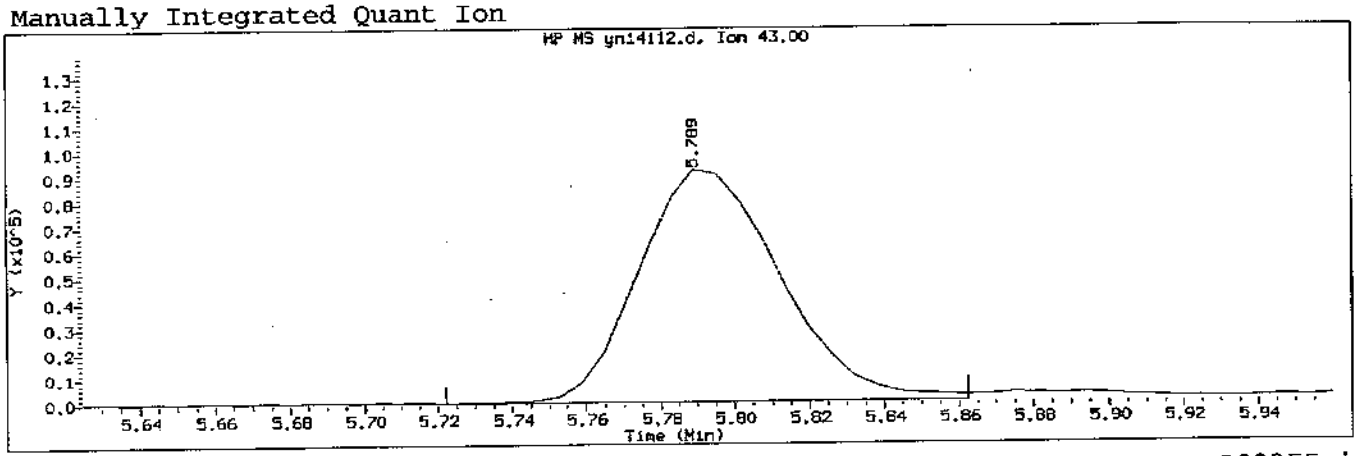
PCH09 8231

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 17:35 fav02618

Sample Name: VSTD010 Lab Sample ID: VSTD010

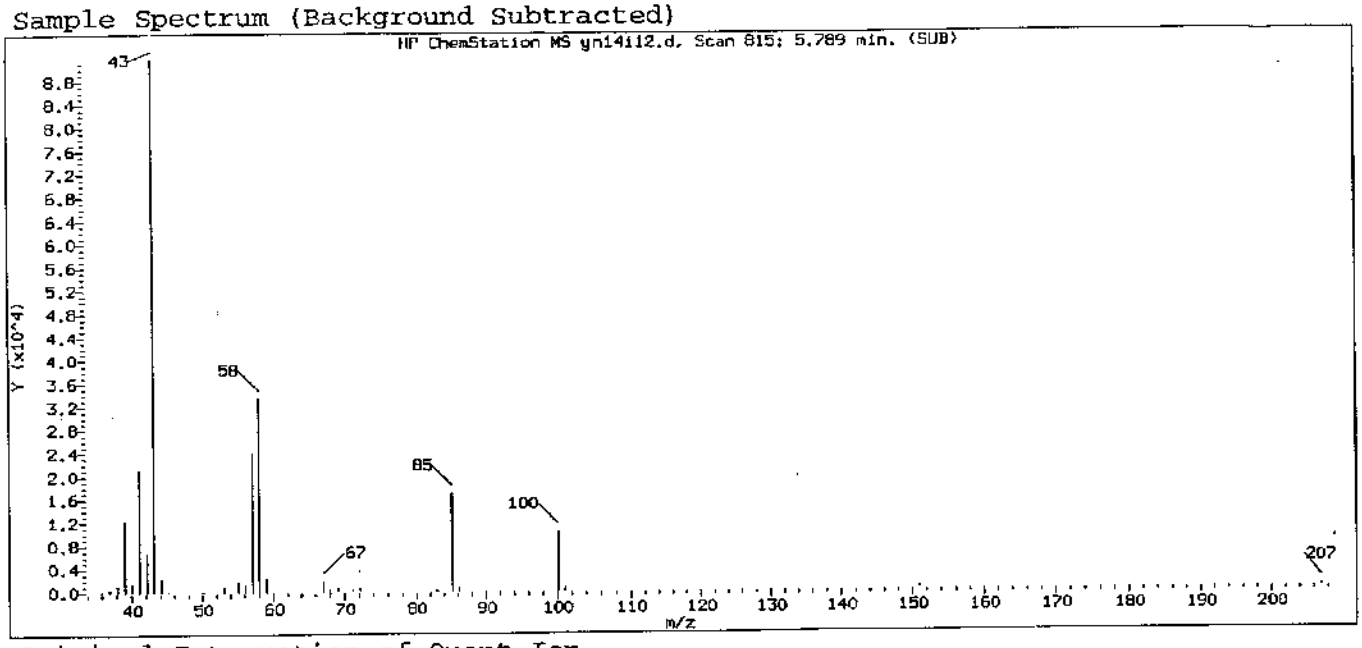
Compound Number	: 89		
Compound Name	: 4-Methyl-2-Pentanone		
Scan Number	: 815		
Retention Time (minutes)	: 5.789		
Quant Ion	: 43.00		
Area (flag)	: 244642M		
On-Column Amount (ng)	: 20.7516		
Integration start scan	: 803	Integration stop scan:	826
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

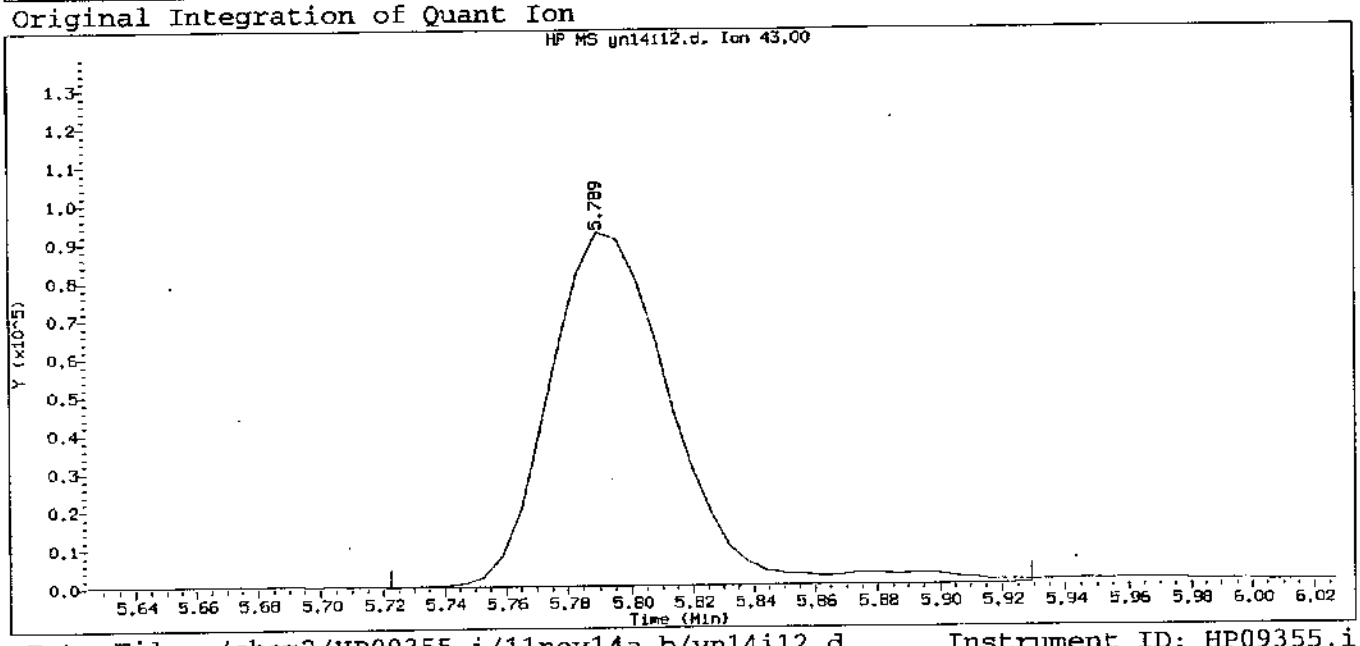
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 8232

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i12.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:10 Analyst ID: NRR01826

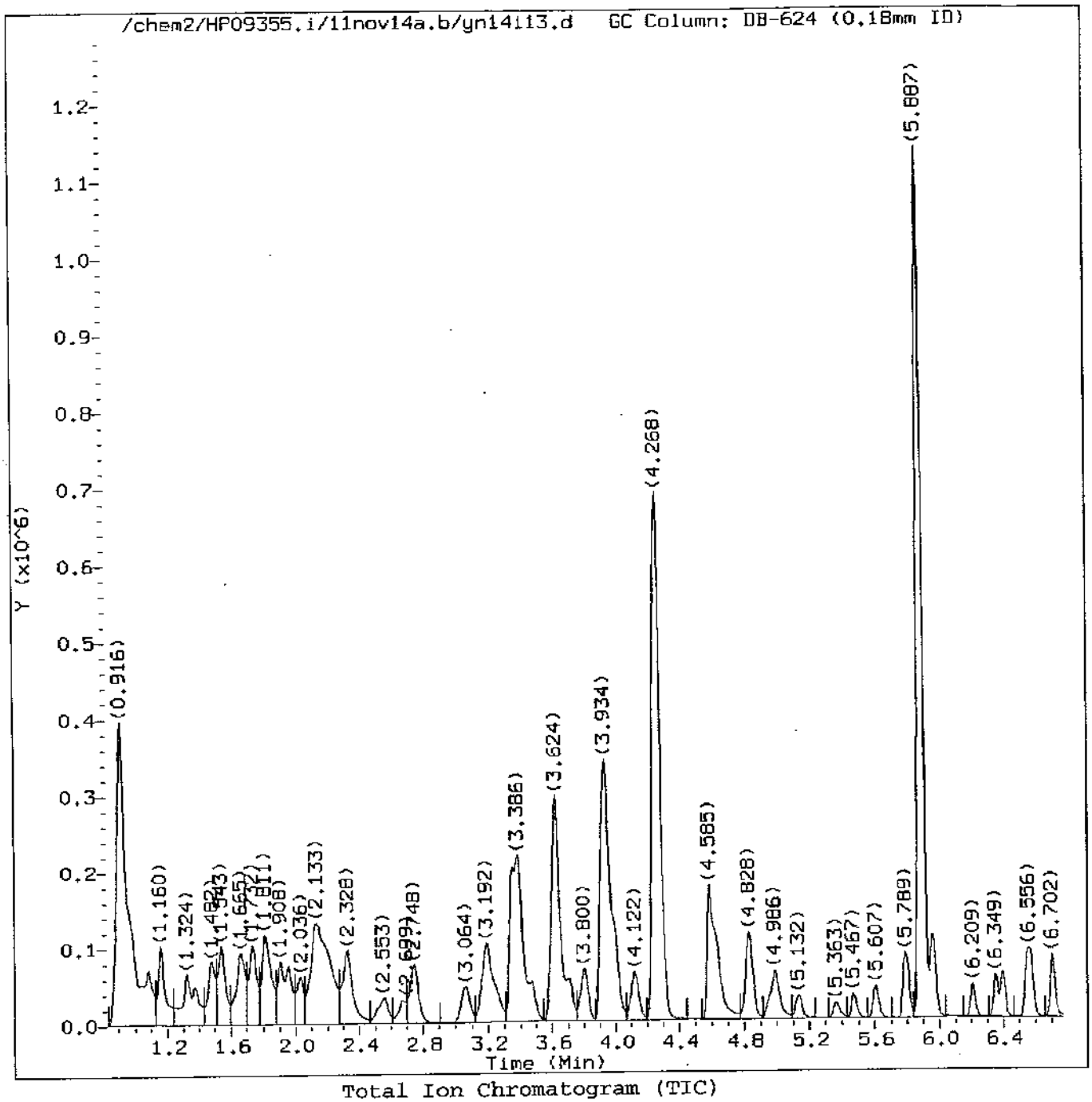
Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:25
Date, time and analyst ID of latest file update: 14-Nov-2011 16:25 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 89		
Compound Name	: 4-Methyl-2-Pentanone		
Scan Number	: 815		
Retention Time (minutes)	: 5.789		
Quant Ion	: 43.00		
Area	: 253080		
On-column Amount (ng)	: 21.0446		
Integration start scan	: 803	Integration stop scan:	837
Y at integration start	: 0	Y at integration end:	0

PCH09 8233

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d
Injection date and time: 14-NOV-2011 16:31

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 16:46

Sublist used: 8260WI

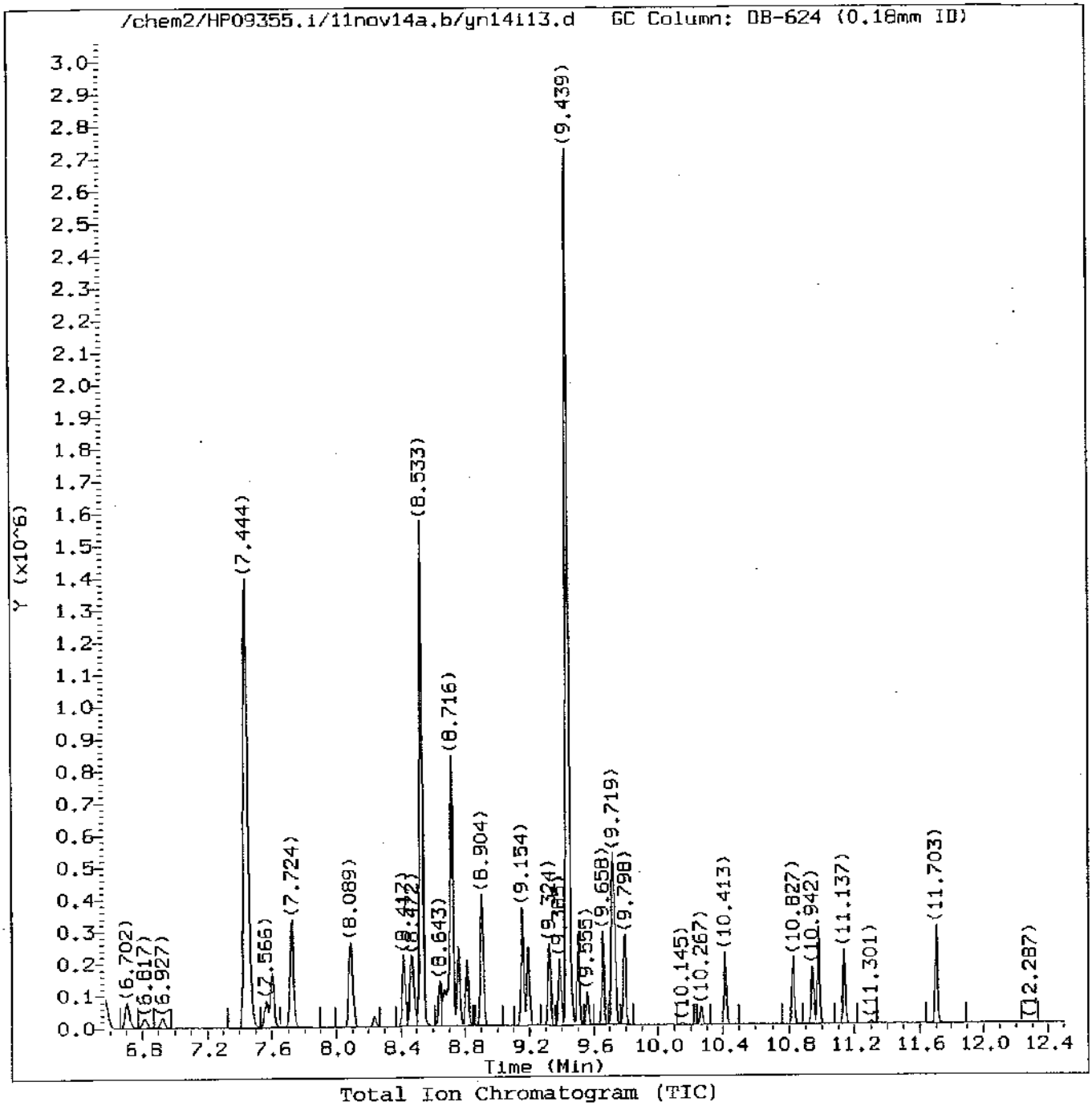
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004

Lab Sample ID: VSTD004

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 8234



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.050	85	49060M	4.478
3) Chloromethane	(1)	1.087	50	43206M	4.300
5) Vinyl Chloride	(1)	1.154	62	43476M	4.282
4) 1,3-Butadiene	(1)	1.166	39	26019M	5.053
7) Bromomethane	(1)	1.324	94	33676	4.371
8) Chloroethane	(1)	1.373	64	26107	4.496
9) Dichlorofluoromethane	(1)	1.476	67	67373	4.518
10) Trichlorofluoromethane	(1)	1.537	101	63644M	4.438
11) n-Pentane	(1)	1.549	43	44974	4.563
13) Ethyl Ether	(1)	1.659	59	25504	4.131
14) Freon 123a	(1)	1.665	67	42377	4.600
15) Acrolein	(4)	1.738	56	124328	43.255
16) 1,1-Dichloroethene	(1)	1.805	96	28498	3.943
18) Freon 113	(1)	1.823	101	30766	4.056
17) Acetone	(1)	1.835	58	14229	8.689
20) Methyl Iodide	(1)	1.908	142	57847	3.930
21) 2-Propanol	(4)	1.914	45	99867M	89.377
22) Carbon Disulfide	(1)	1.957	76	76990M	3.756
24) Allyl Chloride	(1)	2.036	41	41671	4.089
25) Methyl Acetate	(1)	2.048	43	42236	4.303
26) Methylene Chloride	(1)	2.115	84	23985	3.884
28) *t-Butyl Alcohol-d10	(4)	2.145	65	358748	250.000
29) t-Butyl Alcohol	(4)	2.206	59	152515	95.897
30) Acrylonitrile	(1)	2.291	53	18920M	4.277
31) trans-1,2-Dichloroethene	(1)	2.328	96	23169	3.907
32) Methyl Tertiary Butyl Ether	(1)	2.334	73	75705	3.933
33) n-Hexane	(1)	2.559	57	33462	4.091
34) 1,1-Dichloroethane	(1)	2.668	63	40733	3.920
36) di-Isopropyl Ether	(1)	2.735	45	73631	3.937
37) 2-Chloro-1,3-Butadiene	(1)	2.754	53	35631	3.840
39) Ethyl t-Butyl Ether	(1)	3.058	59	72579	3.930
41) 2-Butanone	(1)	3.155	43	49219	8.048
40) cis-1,2-Dichloroethene	(1)	3.179	96	25002	3.867
42) 2,2-Dichloropropane	(1)	3.186	77	31781	3.661
43) Propionitrile	(4)	3.204	54	142318	82.158
46) Methacrylonitrile	(1)	3.356	67	160148	38.678
47) Bromochloromethane	(1)	3.398	128	13180	3.788
48) Tetrahydrofuran	(4)	3.447	71	12621	7.718

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

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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 #236

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Chloroform	(1)	3.471	83	40747	3.920
52)$Dibromofluoromethane	(1)	3.624	113	259614	50.163
51)$Dibromofluoromethane(mz111)	(1)	3.624	111	263446	49.972
45) 1,2-Dichloroethene (total)	(1)		96	48171	7.773
53) 1,1,1-Trichloroethane	(1)	3.648	97	45155	4.283
56) Cyclohexane	(1)	3.703	56	40424	4.087
55) Cyclohexane (mz 69)	(1)	3.703	69	12407	4.047
54) Cyclohexane (mz 84)	(1)	3.709	84	35483	4.119
57) 1,1-Dichloropropene	(1)	3.806	75	32253	3.951
58) Carbon Tetrachloride	(1)	3.806	117	30306	3.671
59) Isobutyl Alcohol	(4)	3.916	41	107359M	206.808
60)$1,2-Dichloroethane-d4(mz104)	(1)	3.934	104	40279	50.098
62)$1,2-Dichloroethane-d4	(1)	3.934	102	62710	49.390
61)$1,2-Dichloroethane-d4(mz65)	(1)	3.934	65	336230	49.634
63) Benzene	(1)	3.995	78	91855	3.873
64) 1,2-Dichloroethane (mz 98)	(1)	4.001	98	2718	3.560
65) 1,2-Dichloroethane	(1)	4.007	62	36507	3.890
69) t-Amyl Methyl Ether	(1)	4.122	73	68212M	3.895
71)*Fluorobenzene	(1)	4.268	96	1045376	50.000
72) n-Heptane	(1)	4.274	43	43075	4.639
73) n-Butanol	(4)	4.585	56	170937	394.503
74) Trichloroethene	(1)	4.633	95	24243	3.788
75) Methylcyclohexane (mz98)	(1)	4.828	98	20749	4.217
76) Methylcyclohexane	(1)	4.834	83	43875	4.144
77) 1,2-Dichloropropane	(1)	4.846	63	23239	3.755
78) Dibromomethane	(1)	4.956	93	16499	3.816
79) 1,4-Dioxane	(4)	4.986	88	28144	199.490
80) Methyl Methacrylate	(1)	4.998	69	24105	3.806
83) Bromodichloromethane	(1)	5.132	83	25931	3.471
85) 2-Nitropropane	(1)	5.363	41	19824M	6.686
86) 2-Chloroethyl Vinyl Ether	(1)	5.473	63	17494	3.635
87) cis-1,3-Dichloropropene	(1)	5.607	75	31325	3.435
89) 4-Methyl-2-Pentanone	(1)	5.789	43	86903	7.483
93)$Toluene-d8	(2)	5.887	98	1042256	50.089
92)$Toluene-d8(mz100)	(2)	5.887	100	668030	49.335
94) Toluene	(2)	5.954	92	59538	3.831
95) trans-1,3-Dichloropropene	(2)	6.209	75	27726	3.194
96) Ethyl Methacrylate	(2)	6.349	69	34108	3.518

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

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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH89 8237

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
97) 1,1,2-Trichloroethane	(2)	6.398	97	22934	3.844
98) Tetrachloroethene	(2)	6.550	166	29230	3.806
99) 1,3-Dichloropropane	(2)	6.574	76	38321	3.823
101) 2-Hexanone	(2)	6.702	43	70490	7.735
102) Dibromochloromethane	(2)	6.817	129	19493	3.163
104) 1,2-Dibromoethane	(2)	6.927	107	23755	3.635
106)*Chlorobenzene-d5	(2)	7.444	117	788816	50.000
107) Chlorobenzene	(2)	7.468	112	68839	3.789
108) 1,1,1,2-Tetrachloroethane	(2)	7.566	131	20492	3.335
109) Ethylbenzene	(2)	7.602	91	115945	3.802
110) m+p-Xylene	(2)	7.724	106	92848	7.225
113) o-Xylene	(2)	8.089	106	44801	3.492
114) Styrene	(2)	8.101	104	70819	3.385
112) Xylene (Total)	(2)		106	137649	10.716
115) Bromoform	(2)	8.241	173	13221	2.738
116) Isopropylbenzene	(2)	8.417	105	119095	3.711
118) Cyclohexanone	(4)	8.466	55	96167	166.217
120)$4-Bromofluorobenzene(mz174)	(2)	8.533	174	363512	49.883
119)$4-Bromofluorobenzene	(2)	8.533	95	393613	50.070
121) Bromobenzene	(3)	8.643	156	32687	4.099
122) 1,1,2,2-Tetrachloroethane	(3)	8.667	83	38986	4.136
123) 1,2,3-Trichloropropane	(3)	8.691	110	13405	4.183
124) trans-1,4-Dichloro-2-Butene	(3)	8.716	53	134048	39.200
125) n-Propylbenzene	(3)	8.758	91	143289	4.282
126) 2-Chlorotoluene	(3)	8.813	126	30328	4.098
128) 4-Chlorotoluene	(3)	8.898	126	31342	3.886
127) 1,3,5-Trimethylbenzene	(3)	8.910	105	103327	3.938
130) tert-Butylbenzene	(3)	9.154	134	24667	3.876
131) Pentachloroethane	(3)	9.160	167	16091	3.351
132) 1,2,4-Trimethylbenzene	(3)	9.196	105	106443	4.061
133) sec-Butylbenzene	(3)	9.324	105	132270	4.190
134) 1,3-Dichlorobenzene	(3)	9.385	146	64635	4.131
135) p-Isopropyltoluene	(3)	9.439	119	123895	4.088
136)*1,4-Dichlorobenzene-d4	(3)	9.439	152	503915	50.000
138) 1,4-Dichlorobenzene	(3)	9.452	146	68569	4.085
139) 1,2,3-Trimethylbenzene	(3)	9.500	105	113486	4.231
141) Benzyl Chloride	(3)	9.561	91	57086	3.252
142) 1,3-Diethylbenzene	(3)	9.658	119	70466	4.090

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

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Target 3.5 esignature user ID: fav02618

PCH09 #230

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

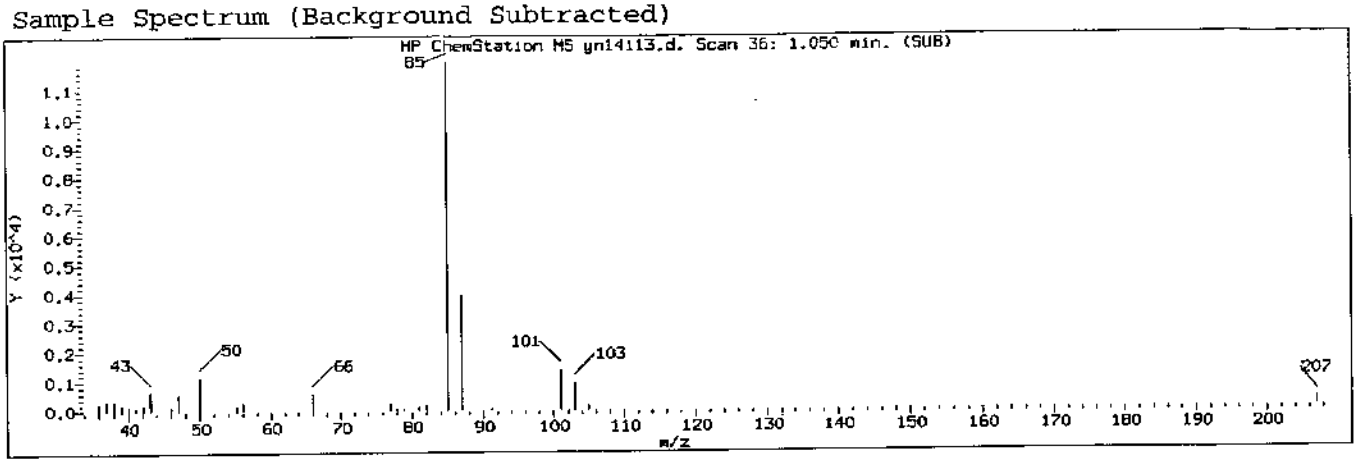
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
143) 1,4-Diethylbenzene	(3)	9.713	119	73954	3.895
144) 1,2-Dichlorobenzene	(3)	9.719	146	63784	3.837
145) n-Butylbenzene	(3)	9.731	92	58197	3.930
146) 1,2-Diethylbenzene	(3)	9.798	119	60555	4.056
148) 1,2-Dibromo-3-Chloropropane	(3)	10.267	75	9219	3.677
149) 1,3,5-Trichlorobenzene	(3)	10.419	180	51910	4.080
150) 1,2,4-Trichlorobenzene	(3)	10.827	180	47953	4.070
151) Hexachlorobutadiene	(3)	10.948	225	23298	4.119
152) Naphthalene	(3)	10.979	128	160629	4.314
153) 1,2,3-Trichlorobenzene	(3)	11.137	180	48760	4.193
154) 2-Methylnaphthalene	(3)	11.703	142	93117	4.005

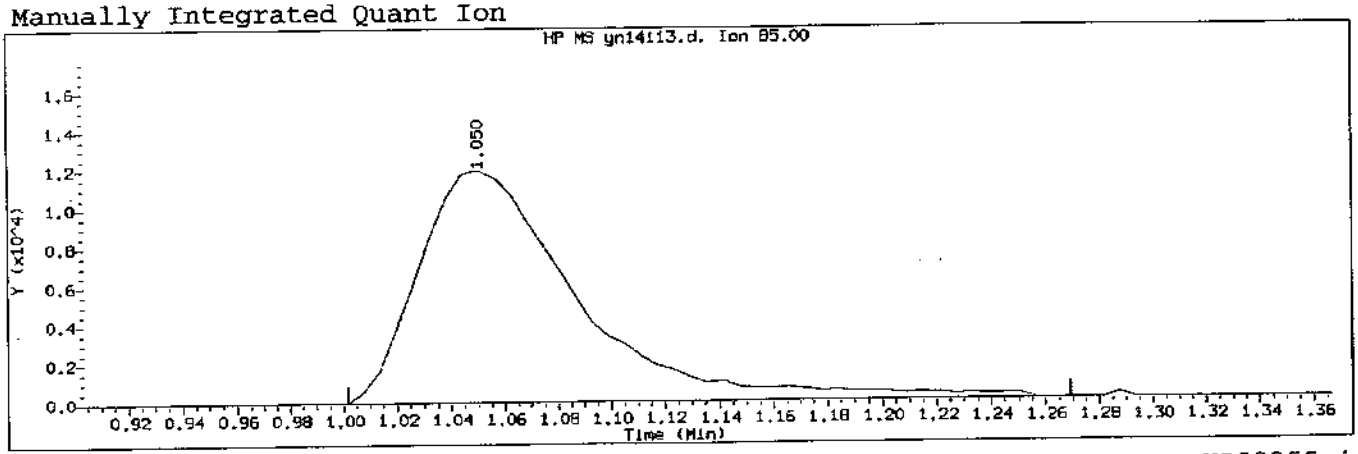
Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 0239

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

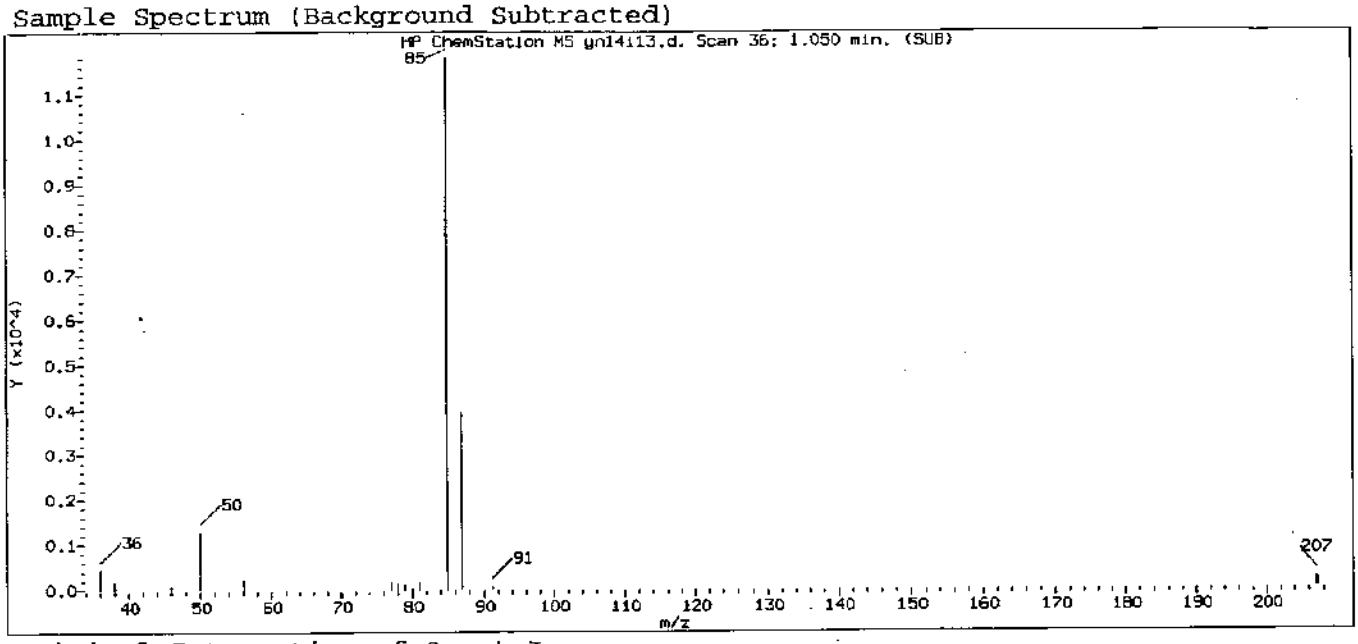
Compound Number	: 2		
Compound Name	: Dichlorodifluoromethane		
Scan Number	: 36		
Retention Time (minutes)	: 1.050		
Quant Ion	: 85.00		
Area (flag)	: 49060M		
On-Column Amount (ng)	: 4.4775		
Integration start scan	: 27	Integration stop scan:	71
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

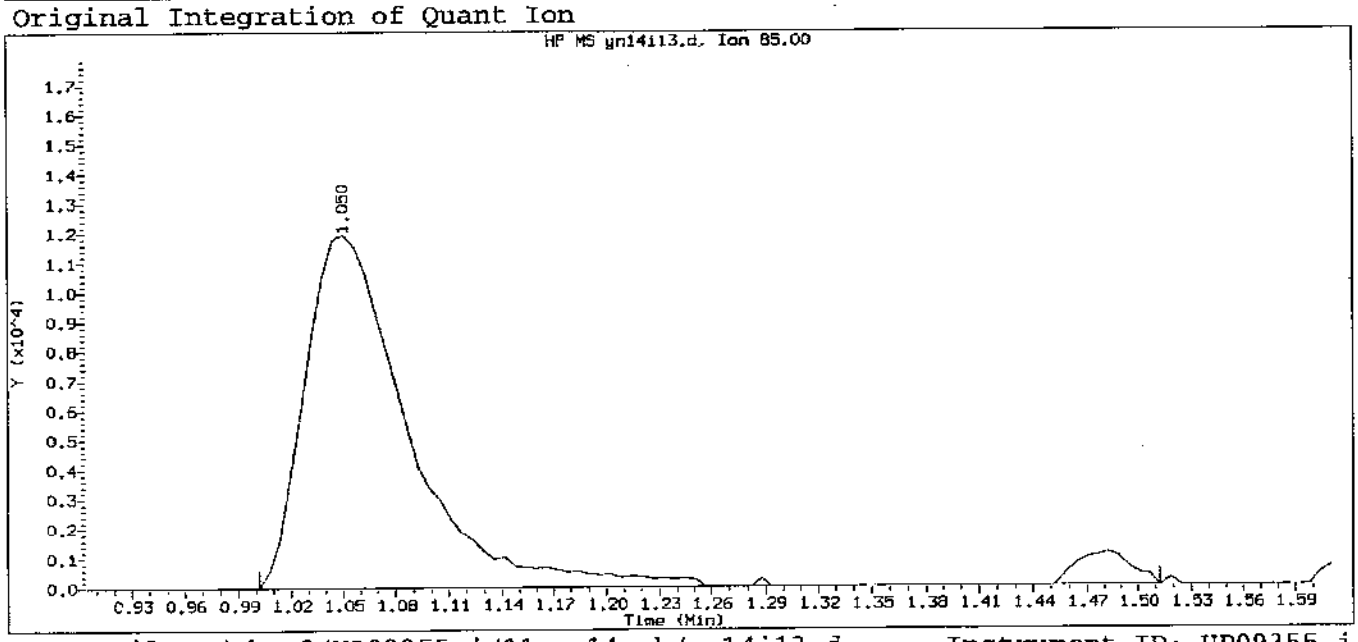
Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30. Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0248

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

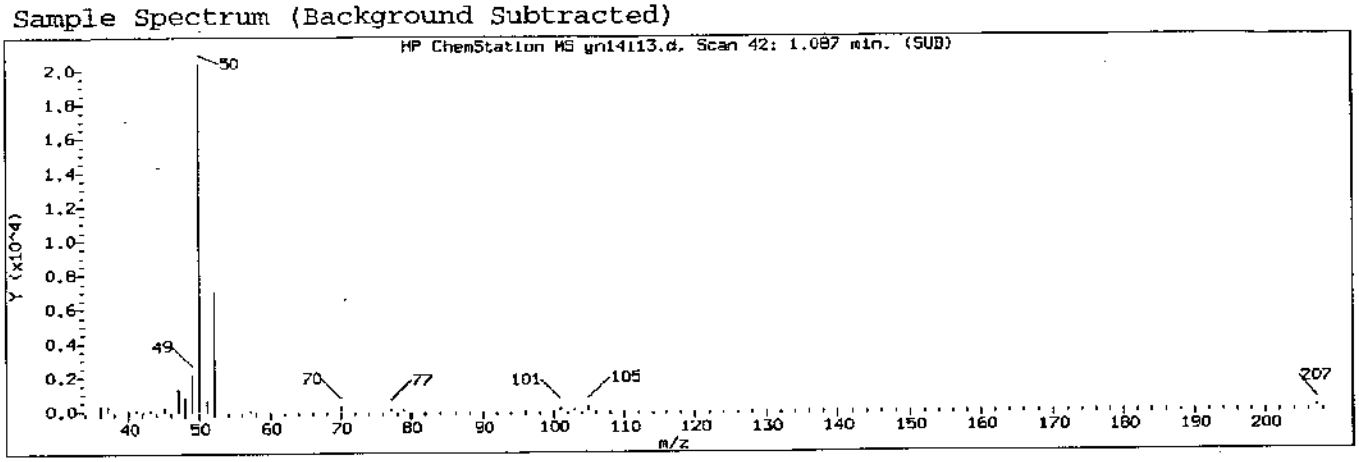
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 2		
Compound Name	: Dichlorodifluoromethane		
Scan Number	: 36		
Retention Time (minutes)	: 1.050		
Quant Ion	: 85.00		
Area	: 51630		
On-column Amount (ng)	: 4.6664		
Integration start scan	: 27	Integration stop scan:	111
Y at integration start	: 0	Y at integration end:	0

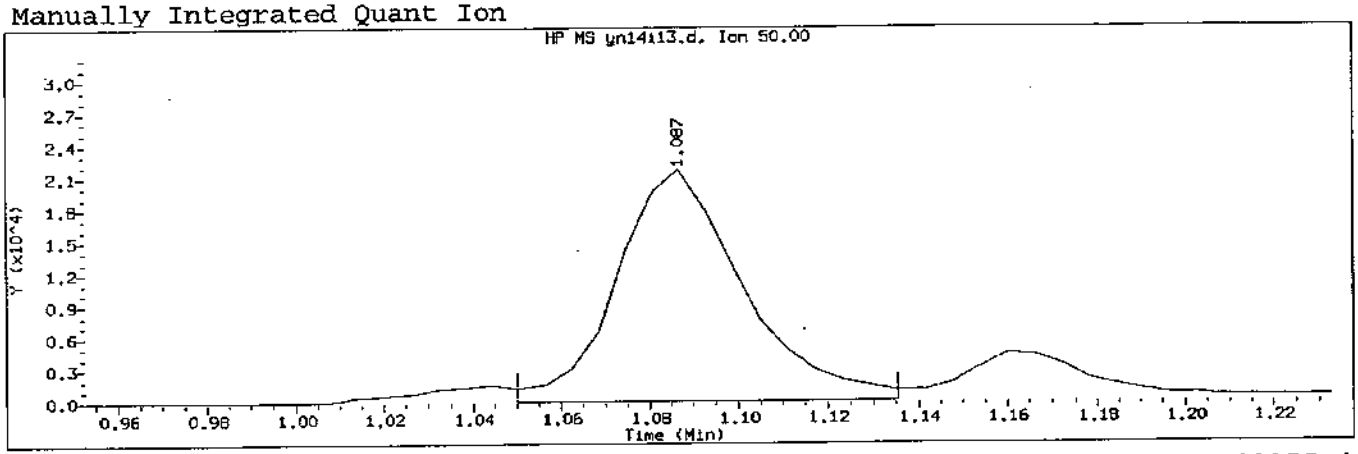
PCH65 8241

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

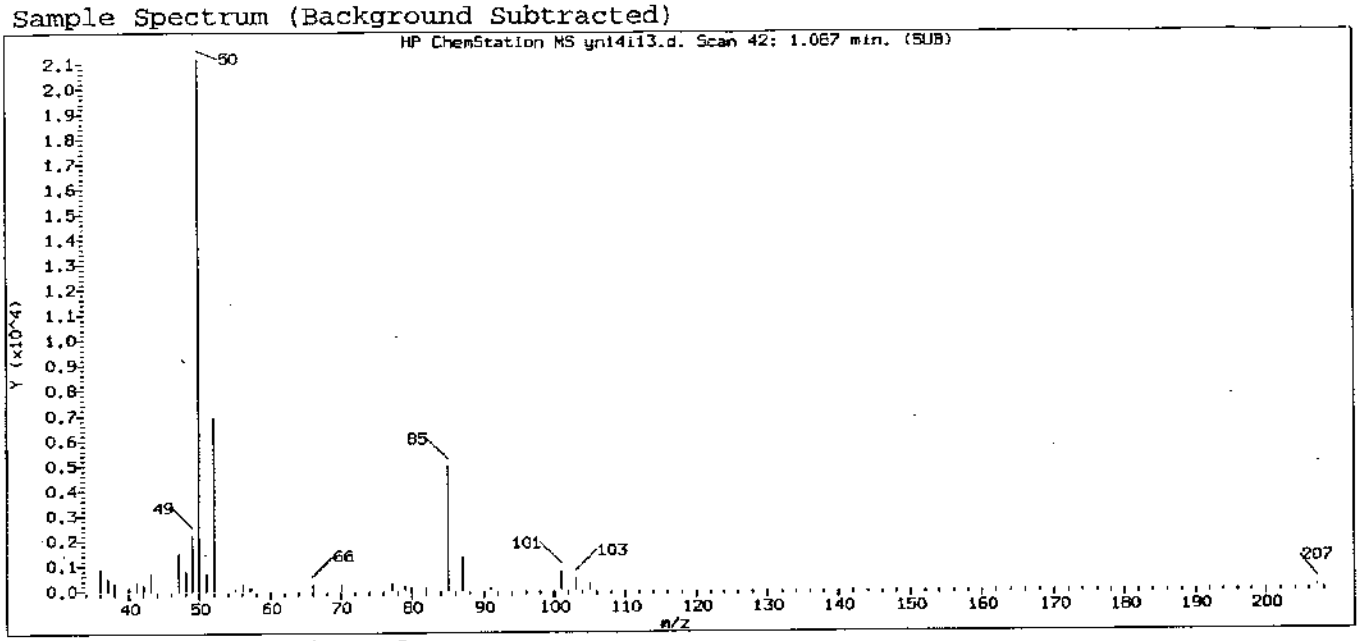
Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 42		
Retention Time (minutes)	: 1.087		
Quant Ion	: 50.00		
Area (flag)	: 43206M		
On-Column Amount (ng)	: 4.3004		
Integration start scan	: 35	Integration stop scan:	49
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

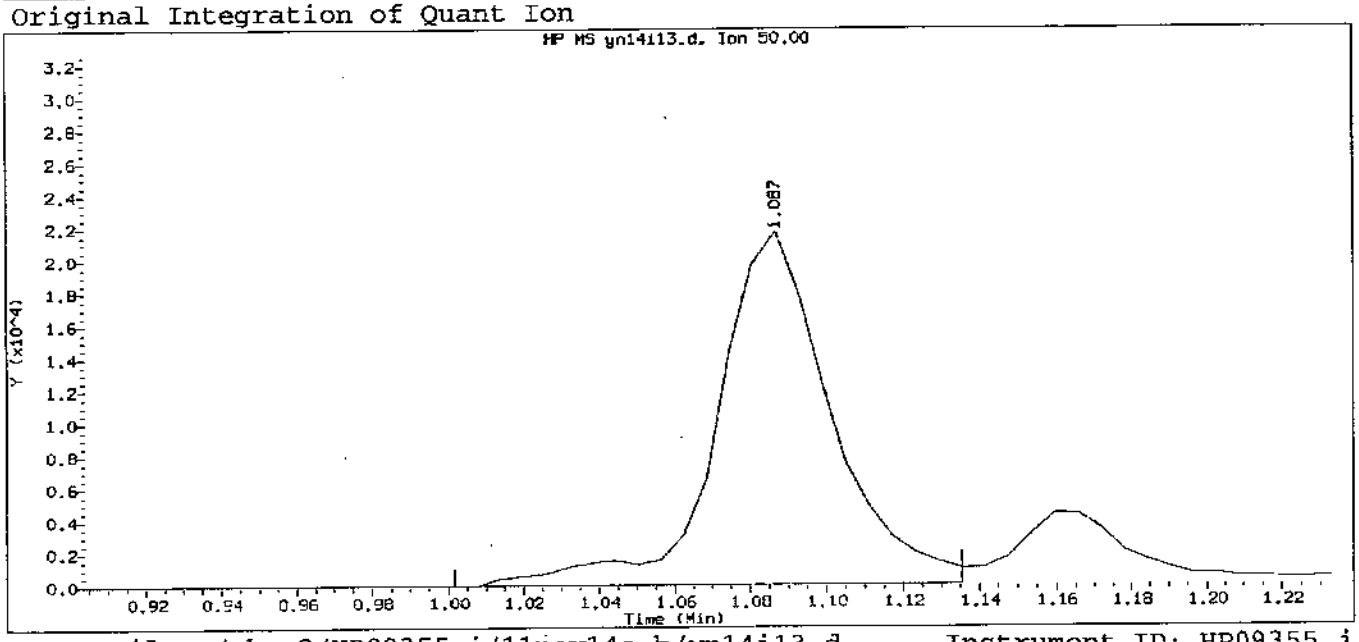
Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30. Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 #242

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

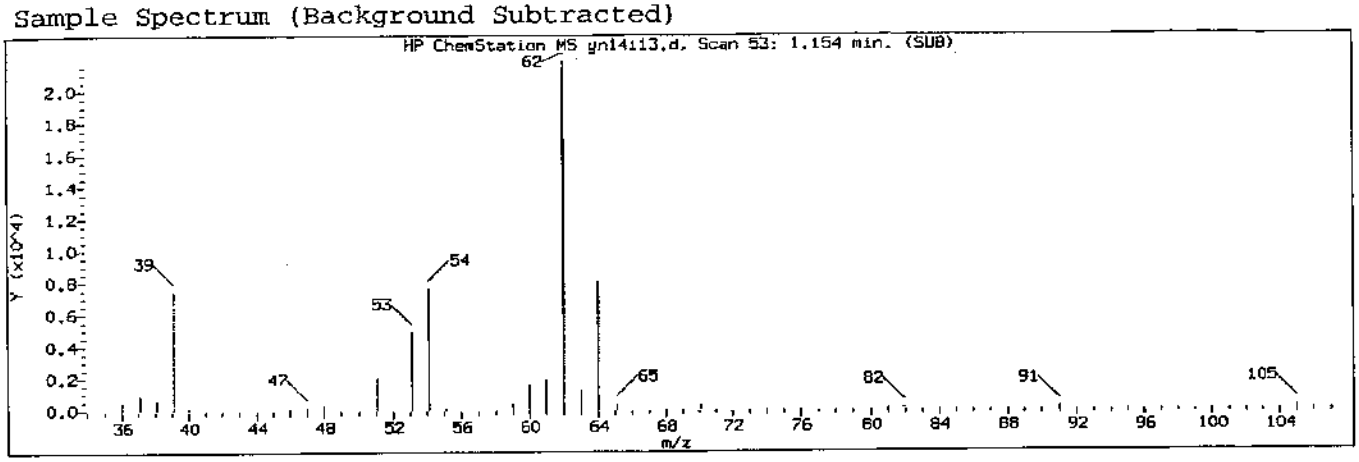
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 42		
Retention Time (minutes)	: 1.087		
Quant Ion	: 50.00		
Area	: 45122		
On-column Amount (ng)	: 4.3729		
Integration start scan	: 27	Integration stop scan:	49
Y at integration start	: 0	Y at integration end:	0

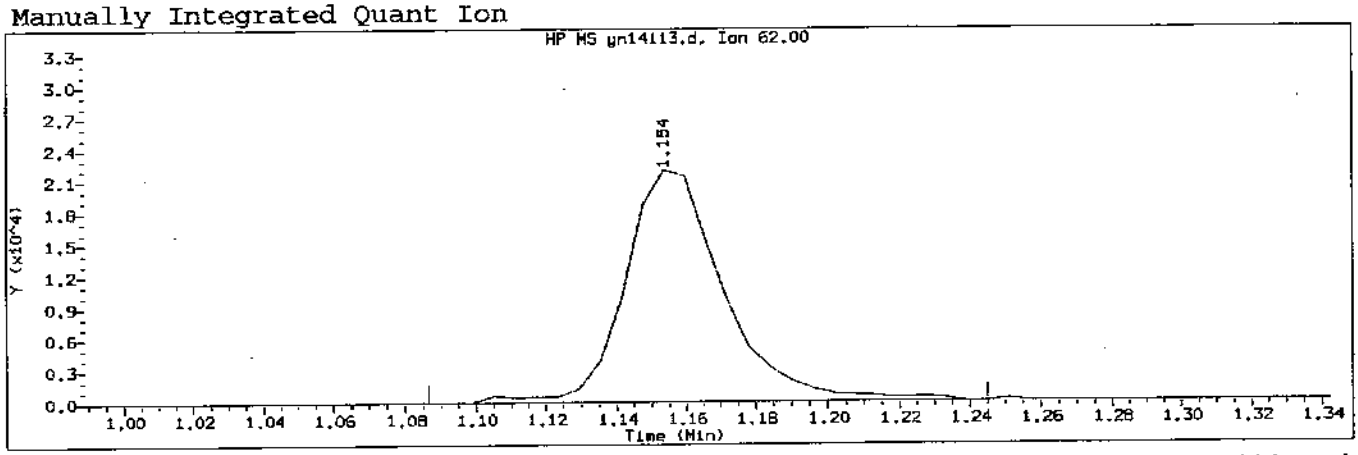
PCH09 0243

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

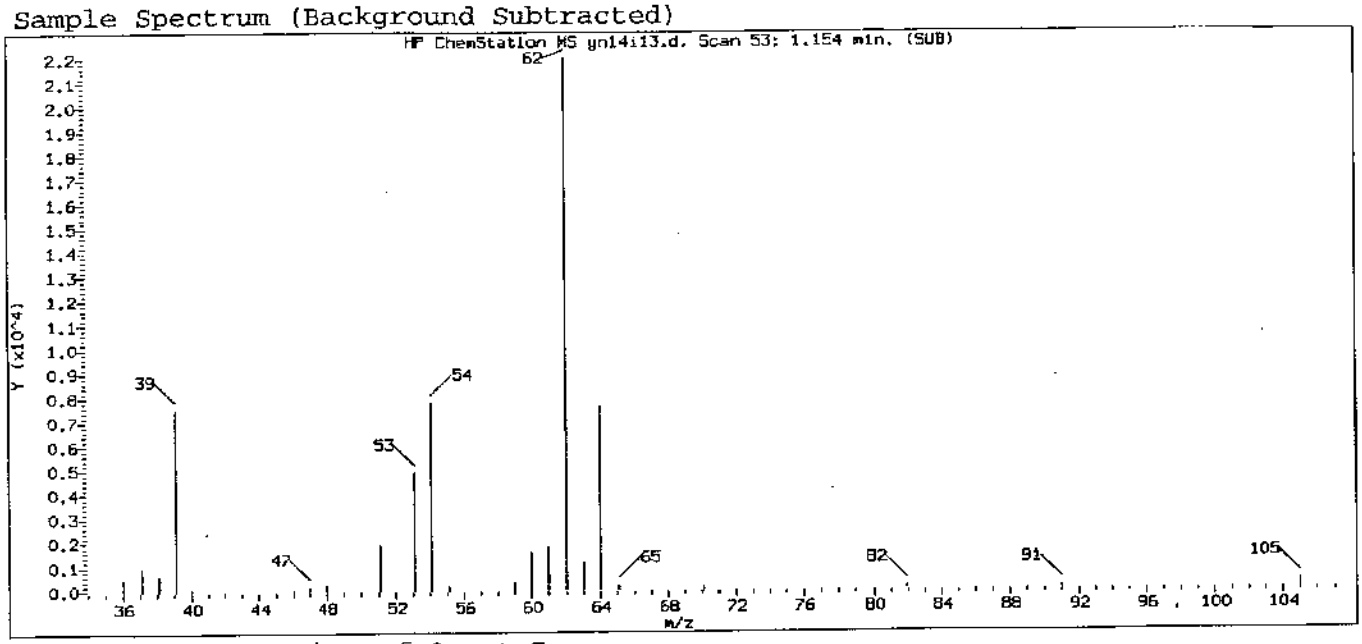
Compound Number	: 5		
Compound Name	: Vinyl Chloride		
Scan Number	: 53		
Retention Time (minutes)	: 1.154		
Quant Ion	: 62.00		
Area (flag)	: 43476M		
On-Column Amount (ng)	: 4.2819		
Integration start scan	: 41	Integration stop scan:	67
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

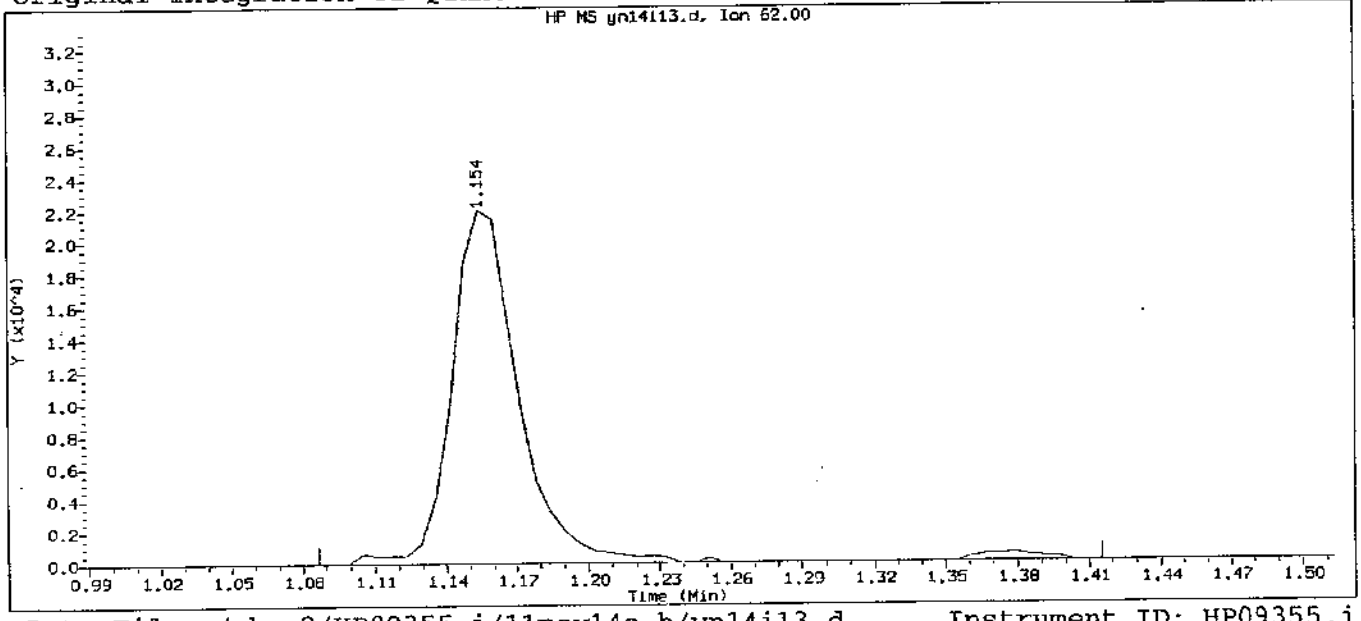
Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30. Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8244

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

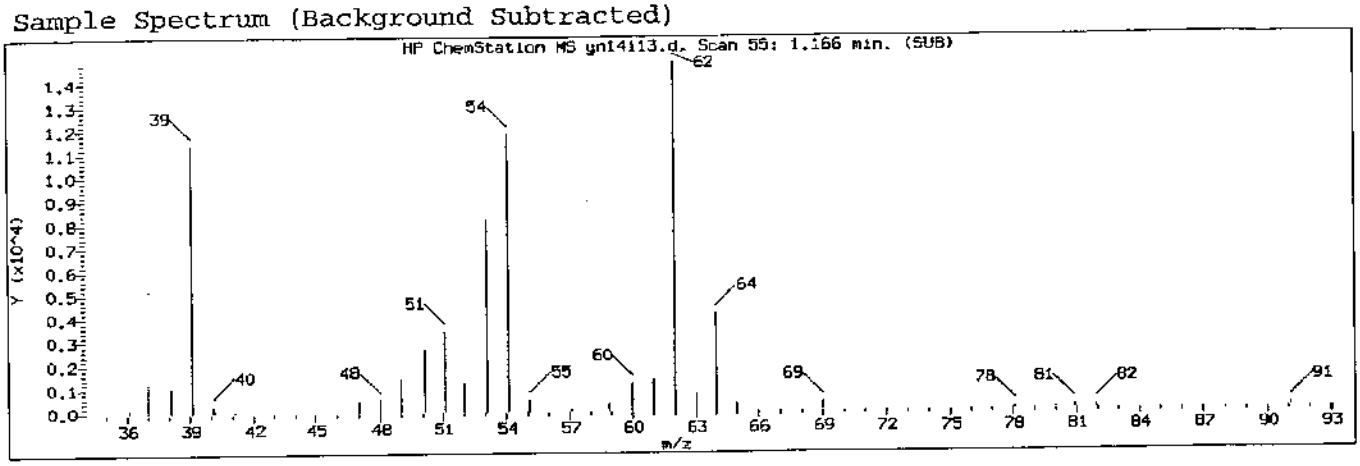
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 5		
Compound Name	: Vinyl Chloride		
Scan Number	: 53		
Retention Time (minutes)	: 1.154		
Quant Ion	: 62.00		
Area	: 44516		
On-column Amount (ng)	: 4.3657		
Integration start scan	: 41	Integration stop scan:	95
Y at integration start	: 0	Y at integration end:	0

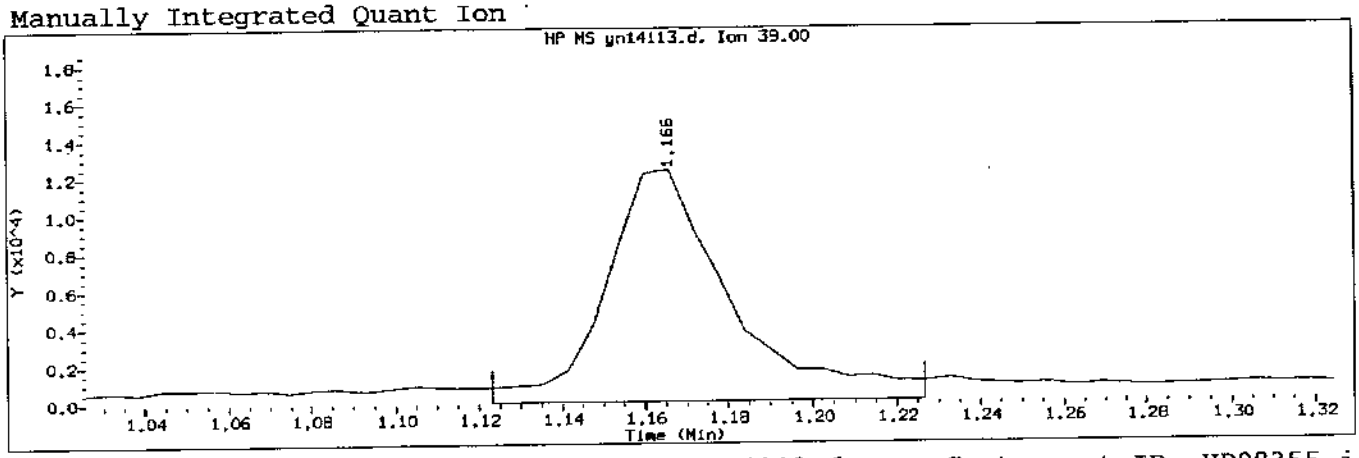
PCH09 8245

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30:
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

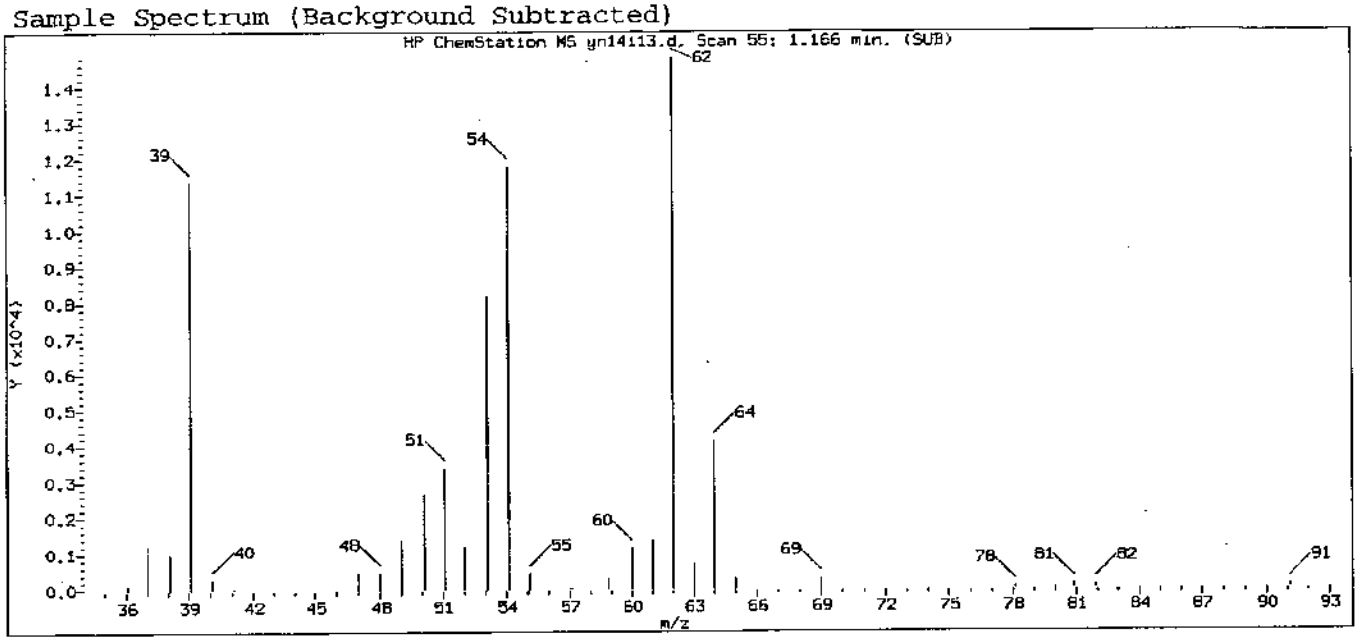
Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area (flag)	: 26019M		
On-Column Amount (ng)	: 5.0527		
Integration start scan	: 47	Integration stop scan:	64
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

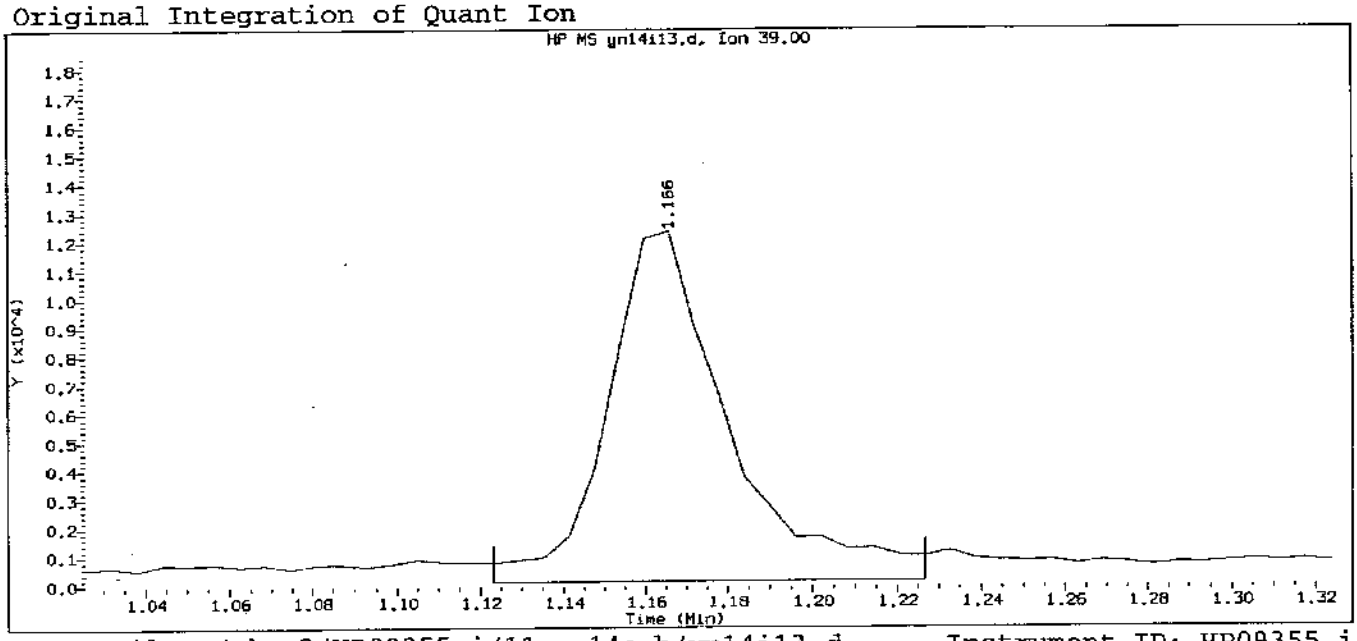
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 8246

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

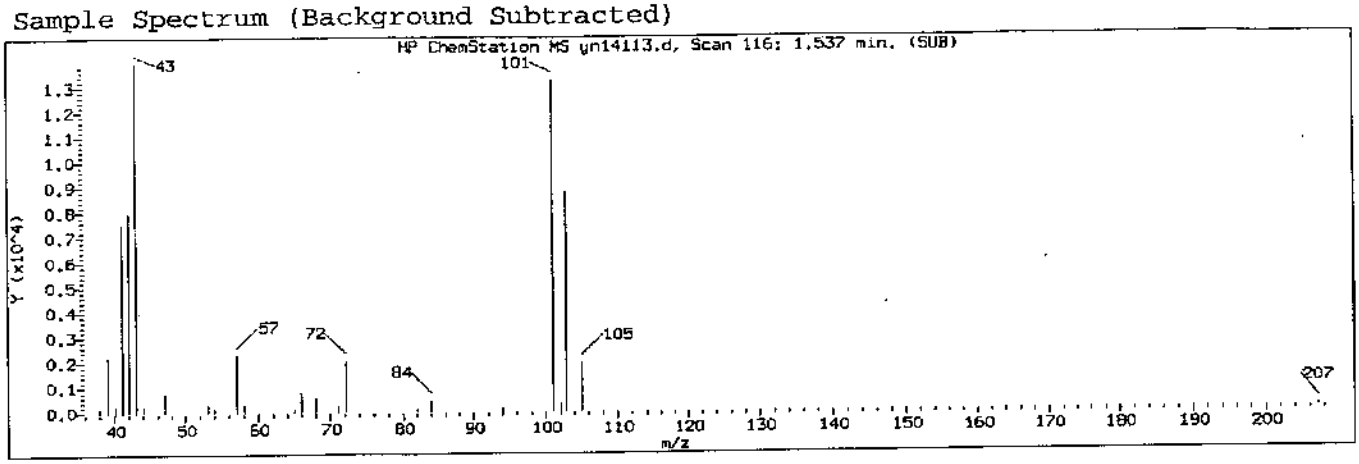
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 55		
Retention Time (minutes)	: 1.166		
Quant Ion	: 39.00		
Area	: 24857		
On-column Amount (ng)	: 4.9528		
Integration start scan	: 47	Integration stop scan:	64
Y at integration start	: 110	Y at integration end:	159

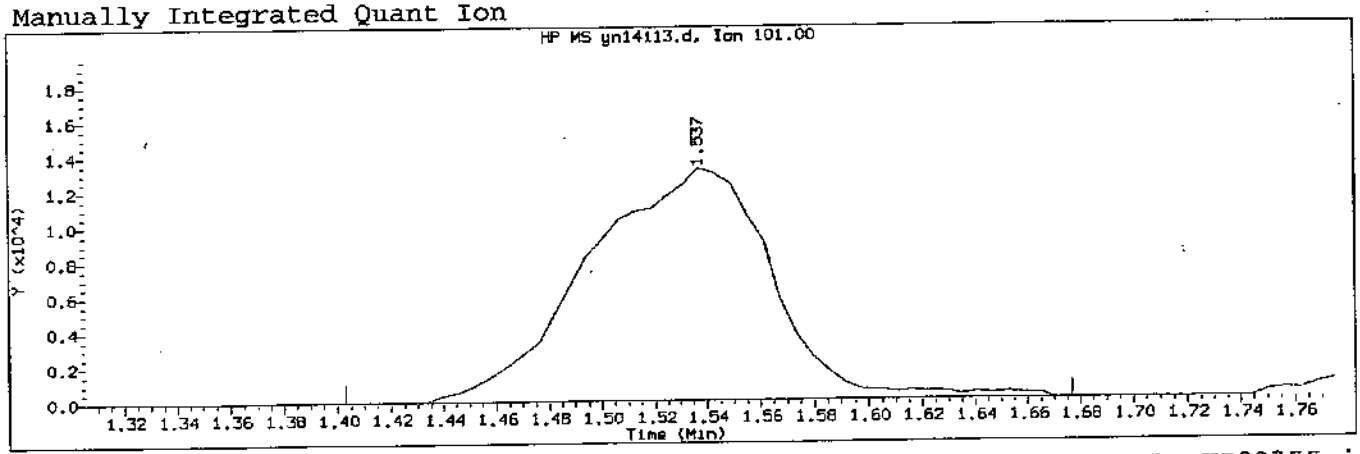
PCH09 #247

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 116		
Retention Time (minutes)	: 1.537		
Quant Ion	: 101.00		
Area (flag)	: 63644M		
On-Column Amount (ng)	: 4.4380		
Integration start scan	: 93	Integration stop scan:	138
Y at integration start	: 0	Y at integration end:	0

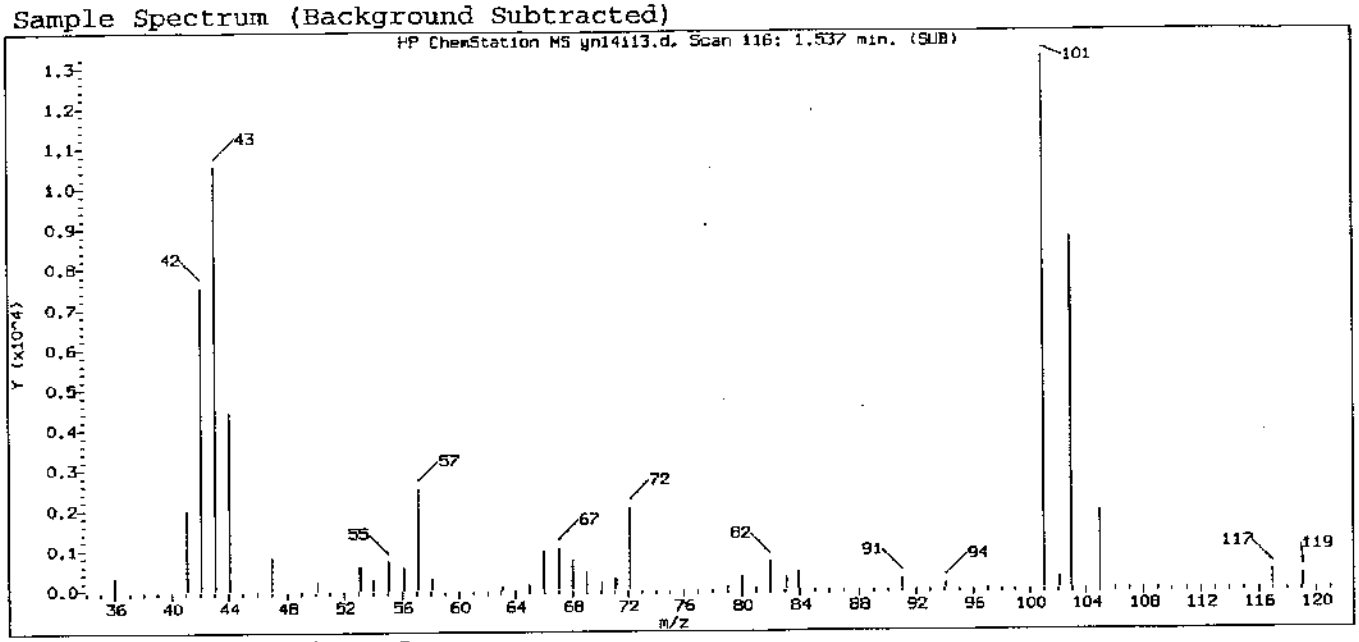
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30. Target 3.5 esignature user ID: fav02618

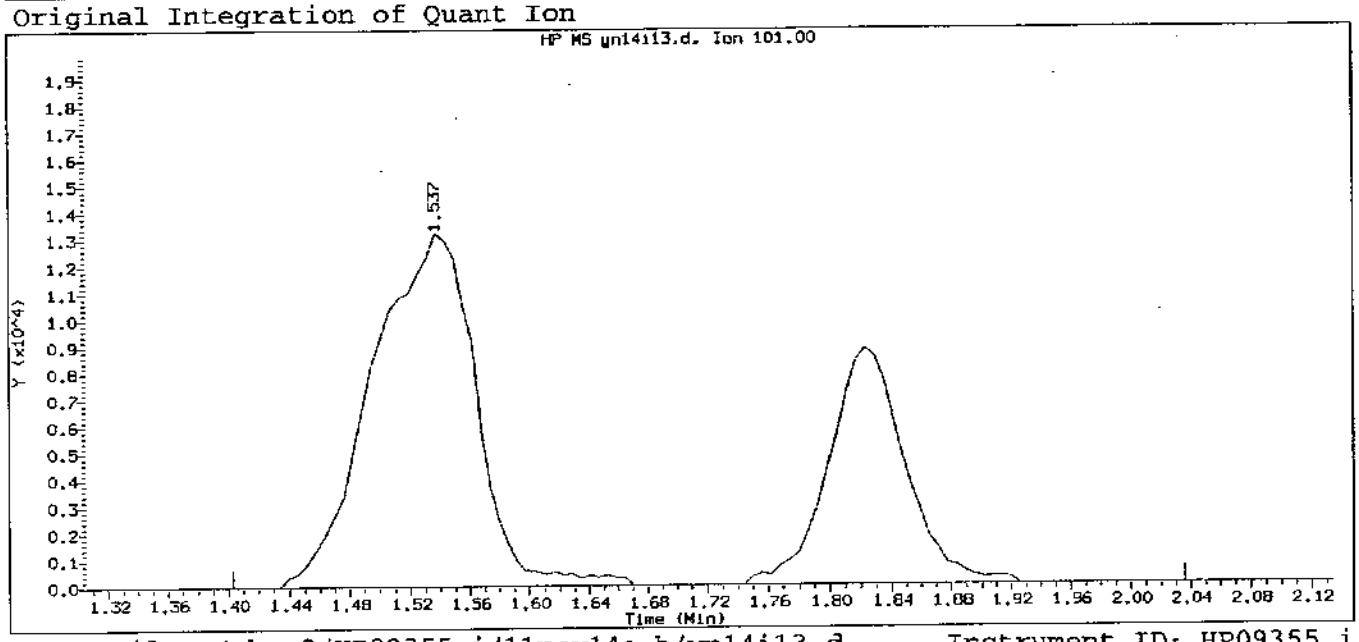
GC/MS audit/management approval: 11/17/11

PCH09 0240

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

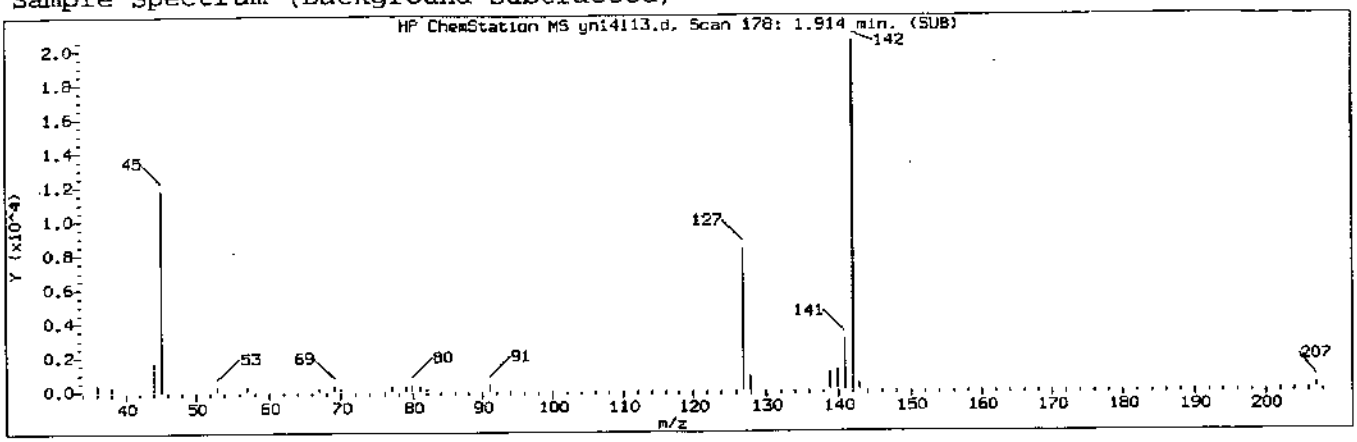
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 116		
Retention Time (minutes)	: 1.537		
Quant Ion	: 101.00		
Area	: 94410		
On-column Amount (ng)	: 4.5666		
Integration start scan	: 93	Integration stop scan:	197
Y at integration start	: 0	Y at integration end:	0

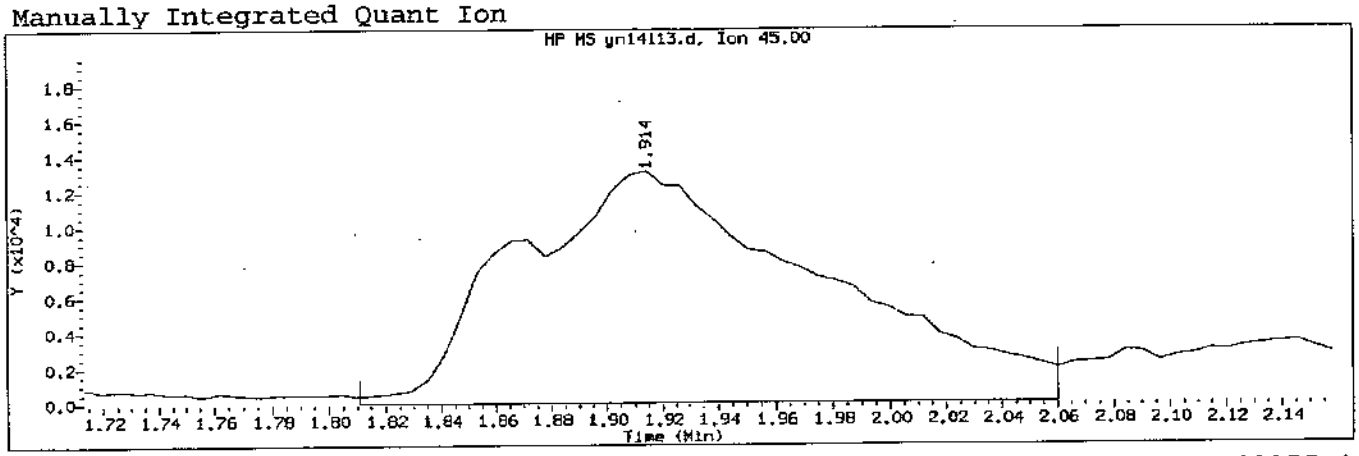
PCH89 8249

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30:
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

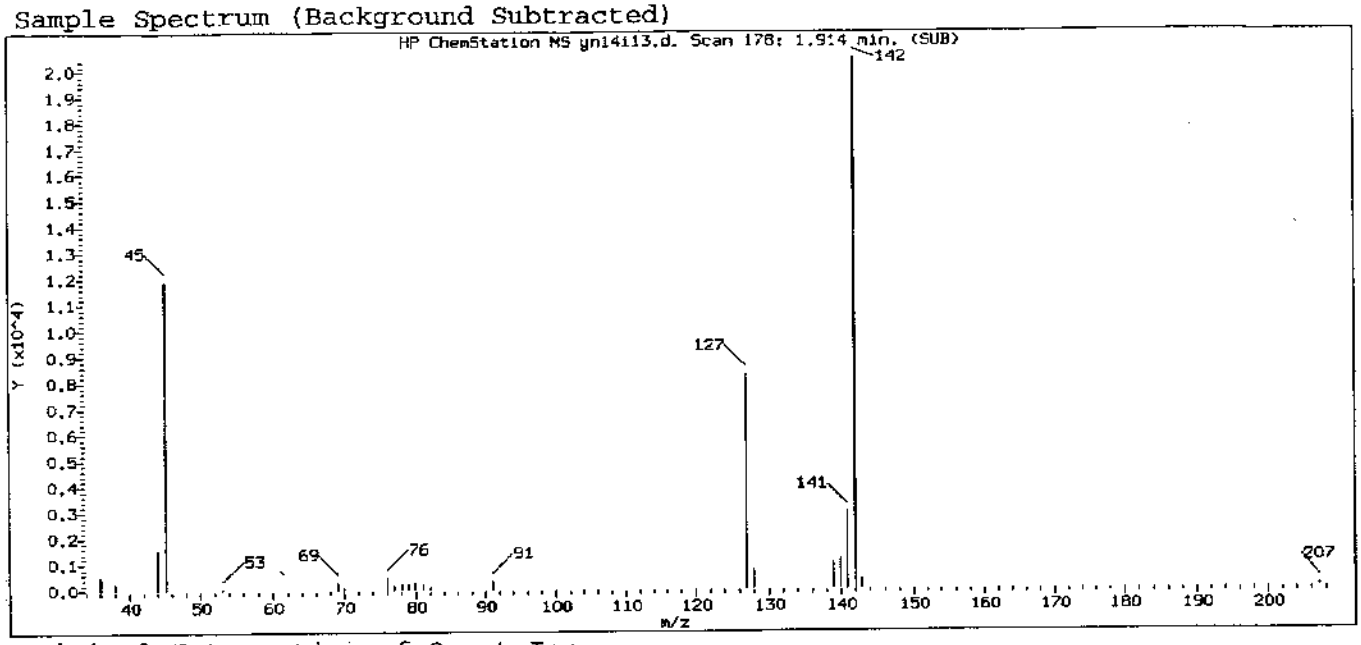
Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 178		
Retention Time (minutes)	: 1.914		
Quant Ion	: 45.00		
Area (flag)	: 99867M		
On-Column Amount (ng)	: 89.3770		
Integration start scan	: 160	Integration stop scan:	201
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

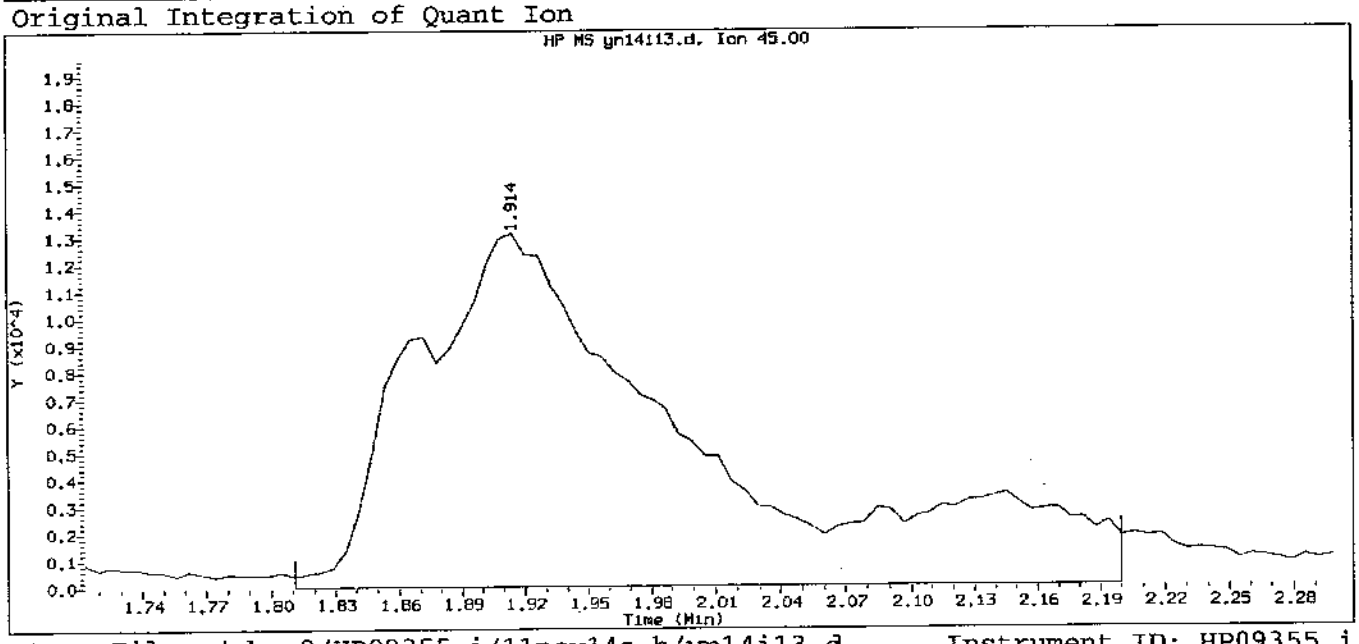
Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30. Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 #250

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

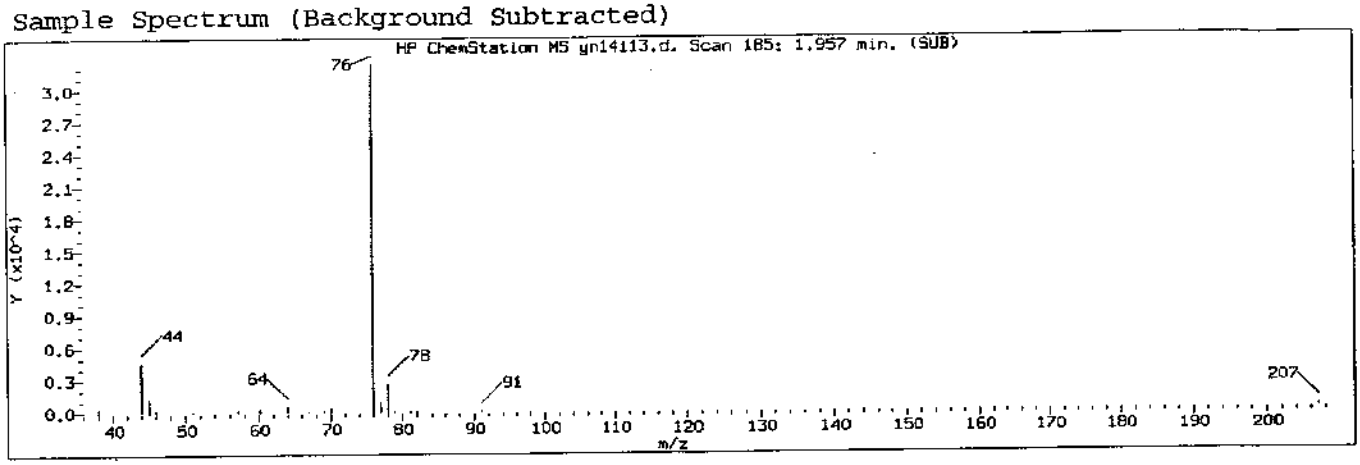
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 178		
Retention Time (minutes)	: 1.914		
Quant Ion	: 45.00		
Area	: 122032		
On-column Amount (ng)	: 92.2792		
Integration start scan	: 160	Integration stop scan:	224
Y at integration start	: 0	Y at integration end:	0

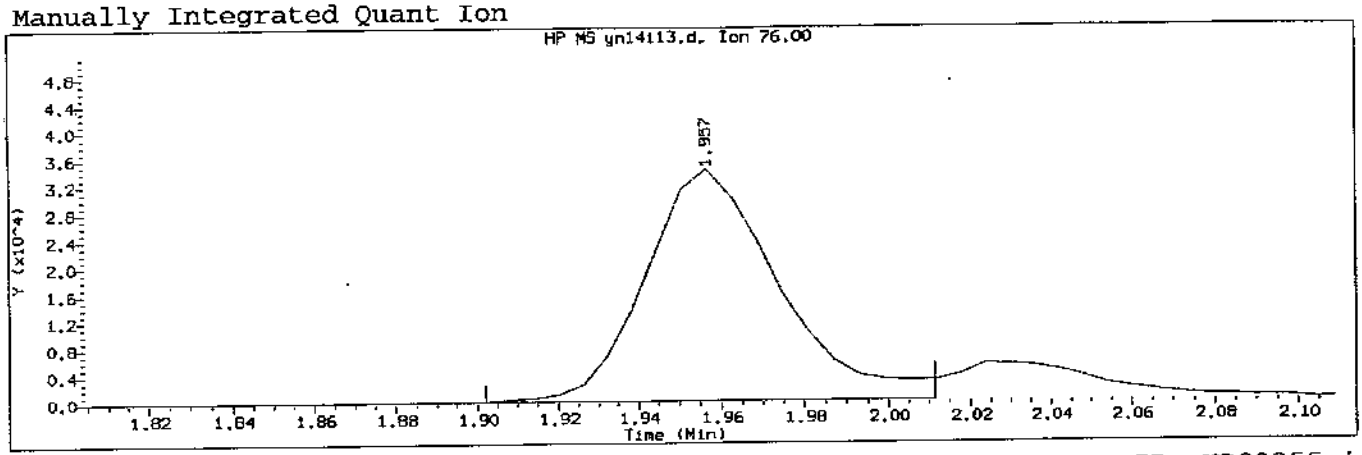
PCH09 8251

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

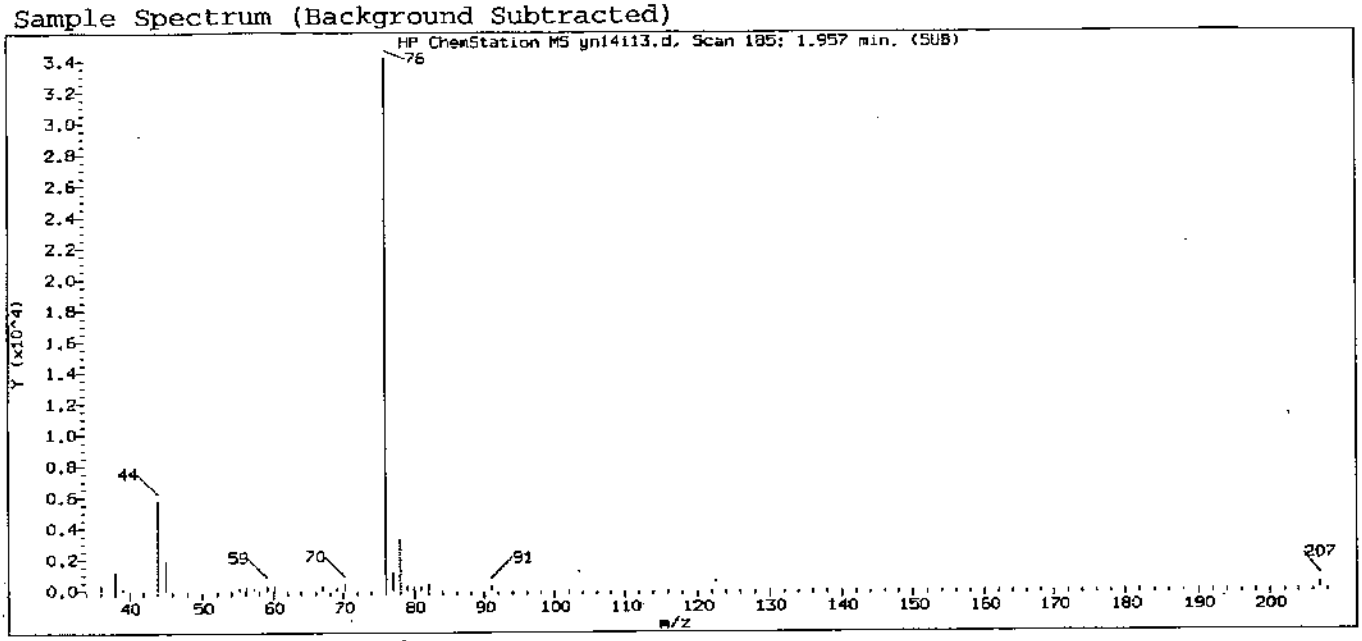
Compound Number	: 22		
Compound Name	: Carbon Disulfide		
Scan Number	: 185		
Retention Time (minutes)	: 1.957		
Quant Ion	: 76.00		
Area (flag)	: 76990M		
On-Column Amount (ng)	: 3.7561		
Integration start scan	: 175	Integration stop scan:	193
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

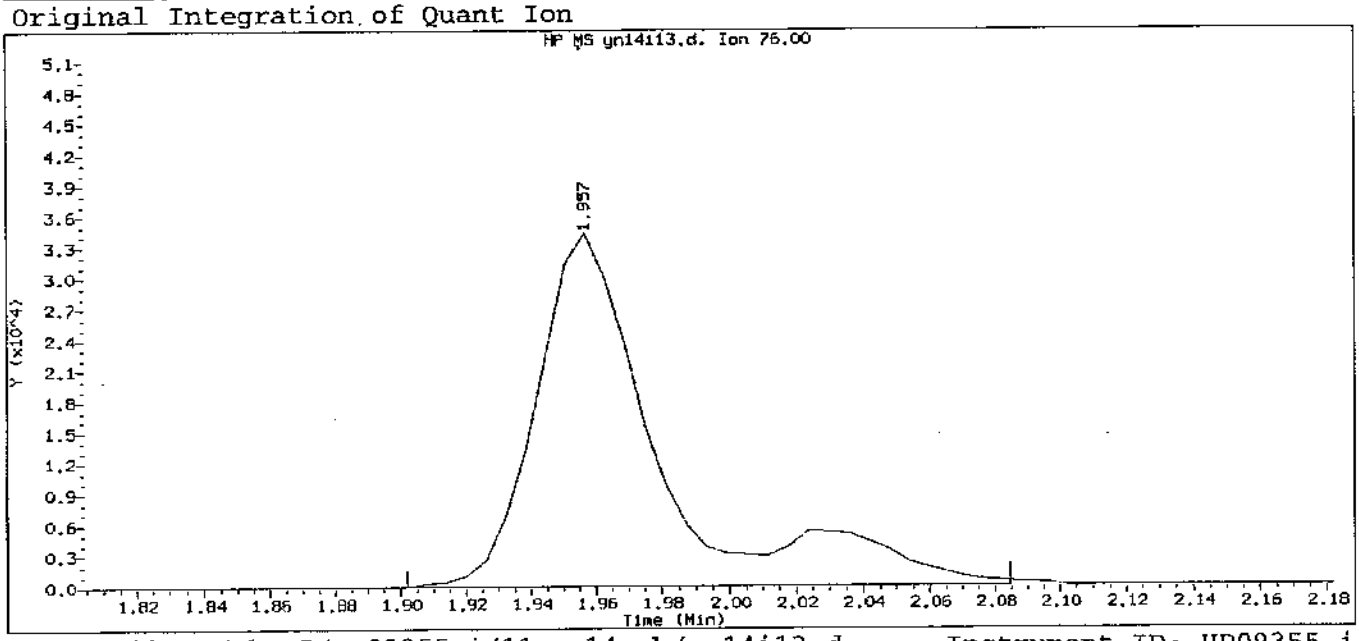
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0252

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

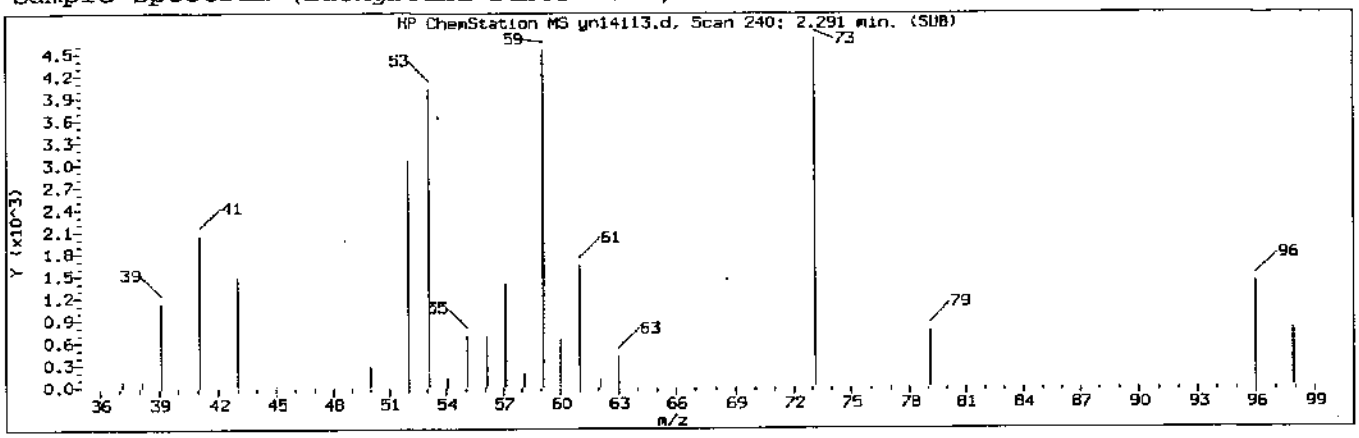
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 22		
Compound Name	: Carbon Disulfide		
Scan Number	: 185		
Retention Time (minutes)	: 1.957		
Quant Ion	: 76.00		
Area	: 89473		
On-column Amount (ng)	: 4.2570		
Integration start scan	: 175	Integration stop scan:	205
Y at integration start	: 0	Y at integration end:	0

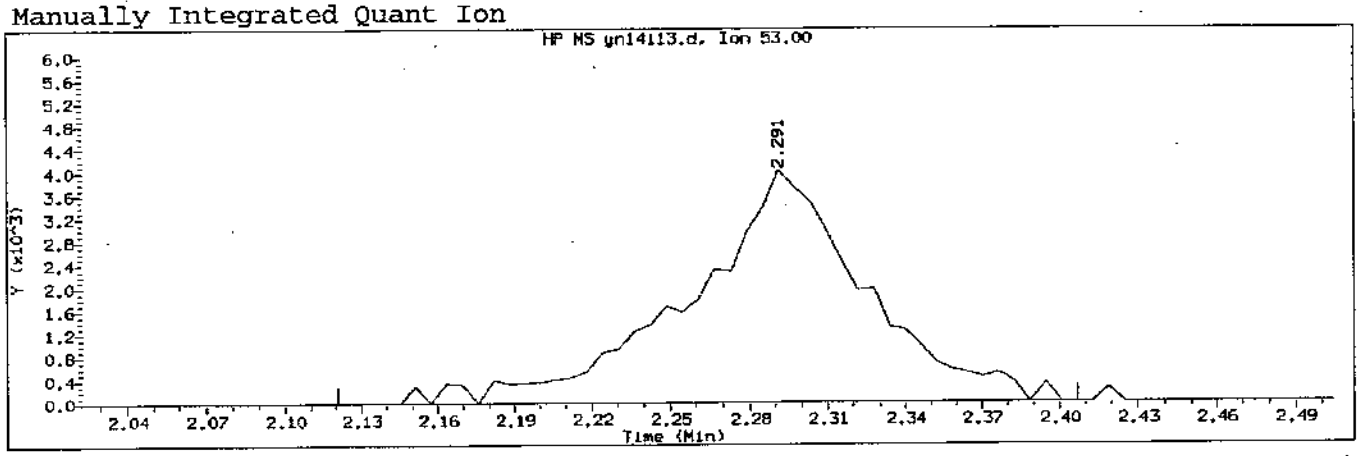
PCH09 0253

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

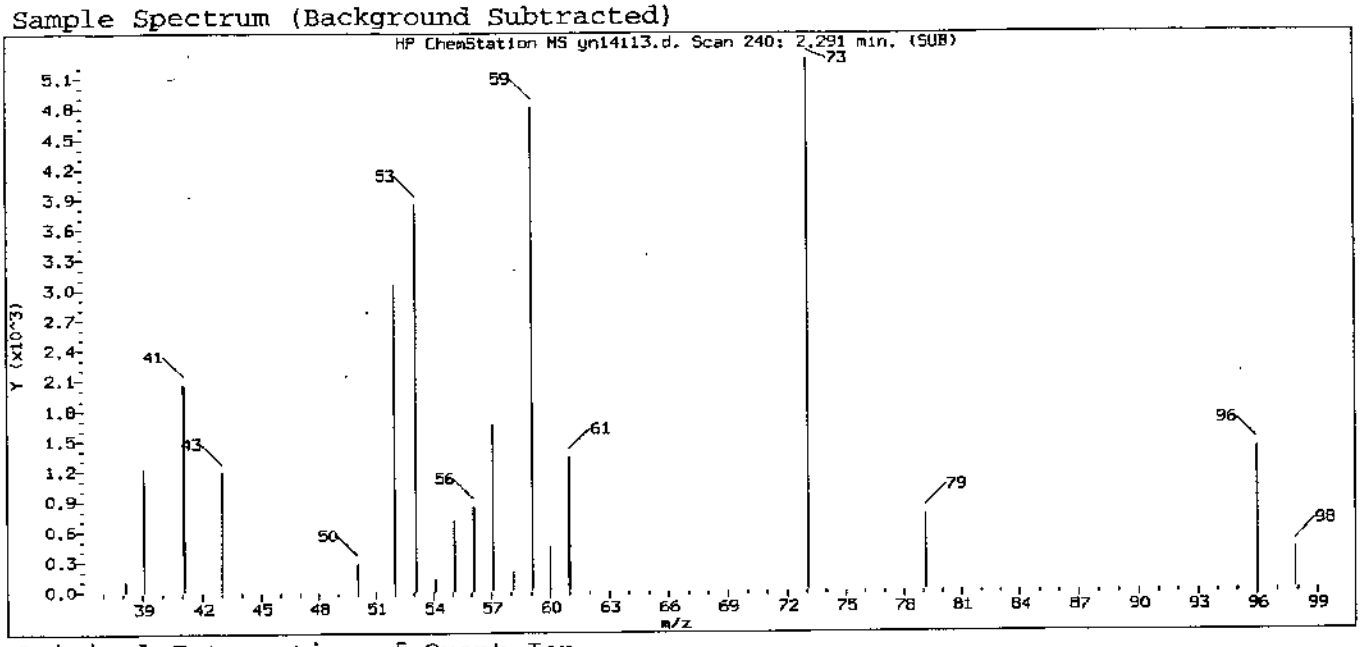
Compound Number	: 30		
Compound Name	: Acrylonitrile		
Scan Number	: 240		
Retention Time (minutes)	: 2.291		
Quant Ion	: 53.00		
Area (flag)	: 18920M		
On-Column Amount (ng)	: 4.2773		
Integration start scan	: 211	Integration stop scan:	258
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

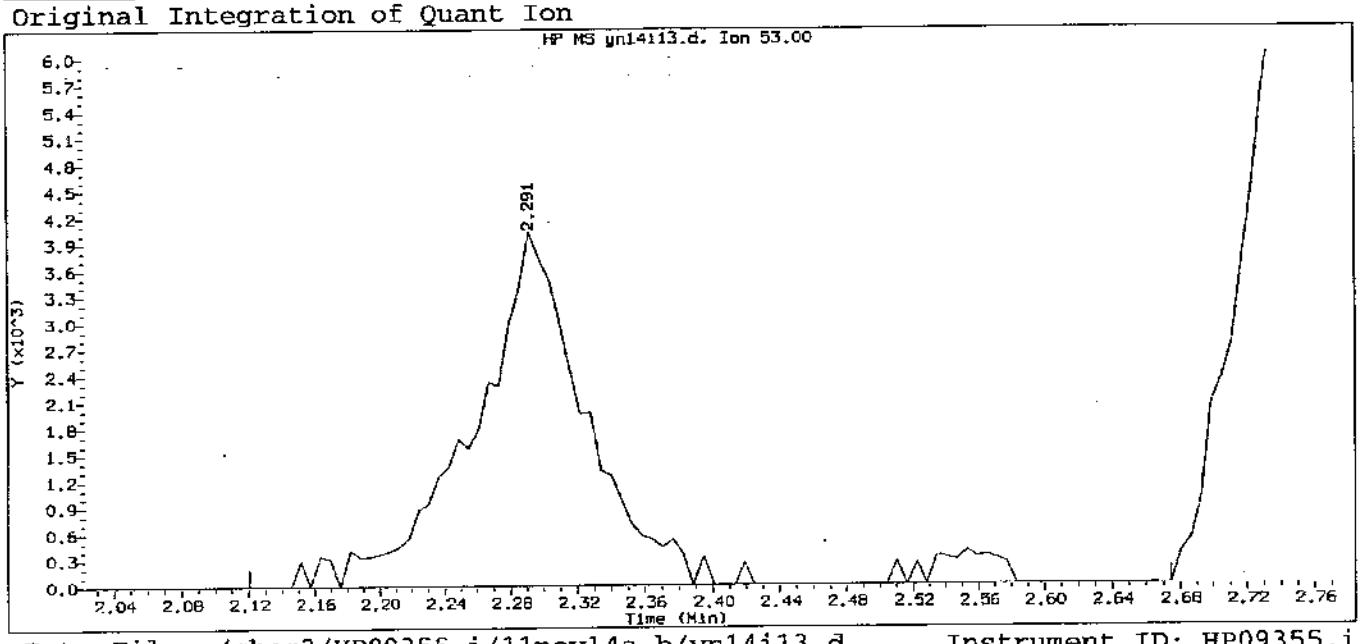
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 6254

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

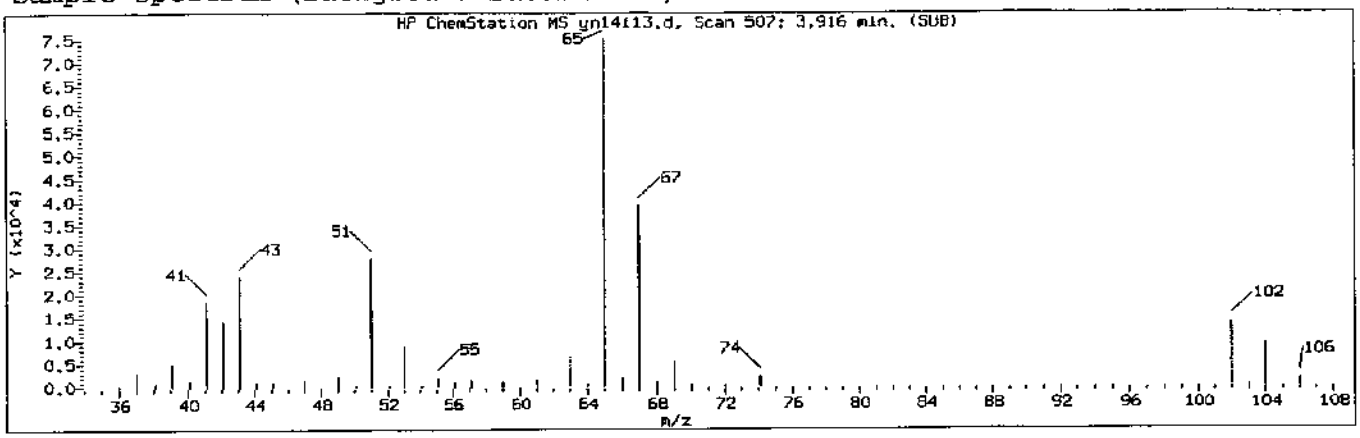
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 30		
Compound Name	: Acrylonitrile		
Scan Number	: 240		
Retention Time (minutes)	: 2.291		
Quant Ion	: 53.00		
Area	: 20118		
On-column Amount (ng)	: 4.4974		
Integration start scan	: 211	Integration stop scan:	302
Y at integration start	: 0	Y at integration end:	0

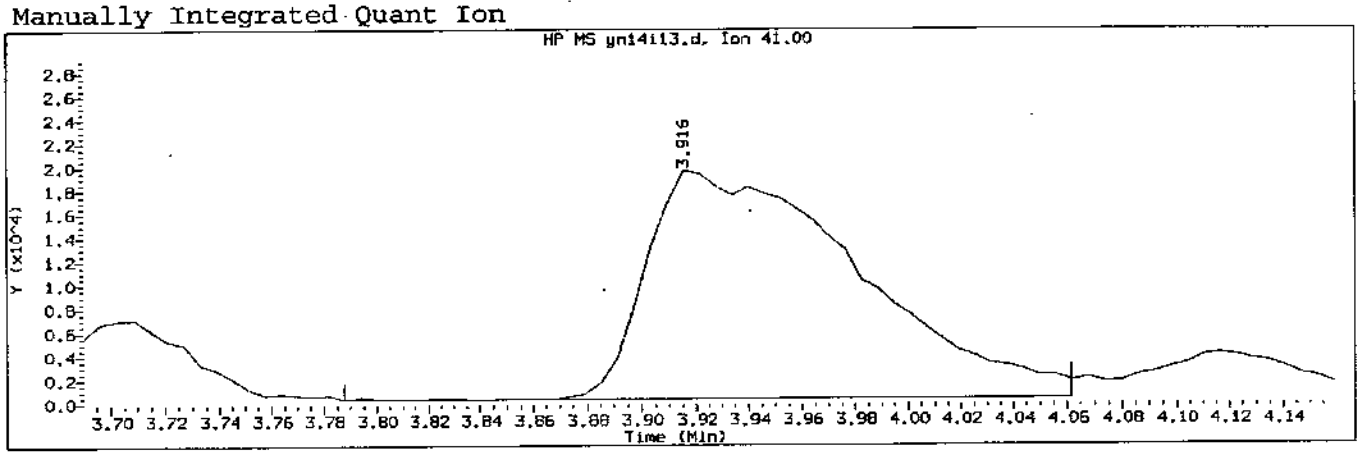
PCH09 8255

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30;
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

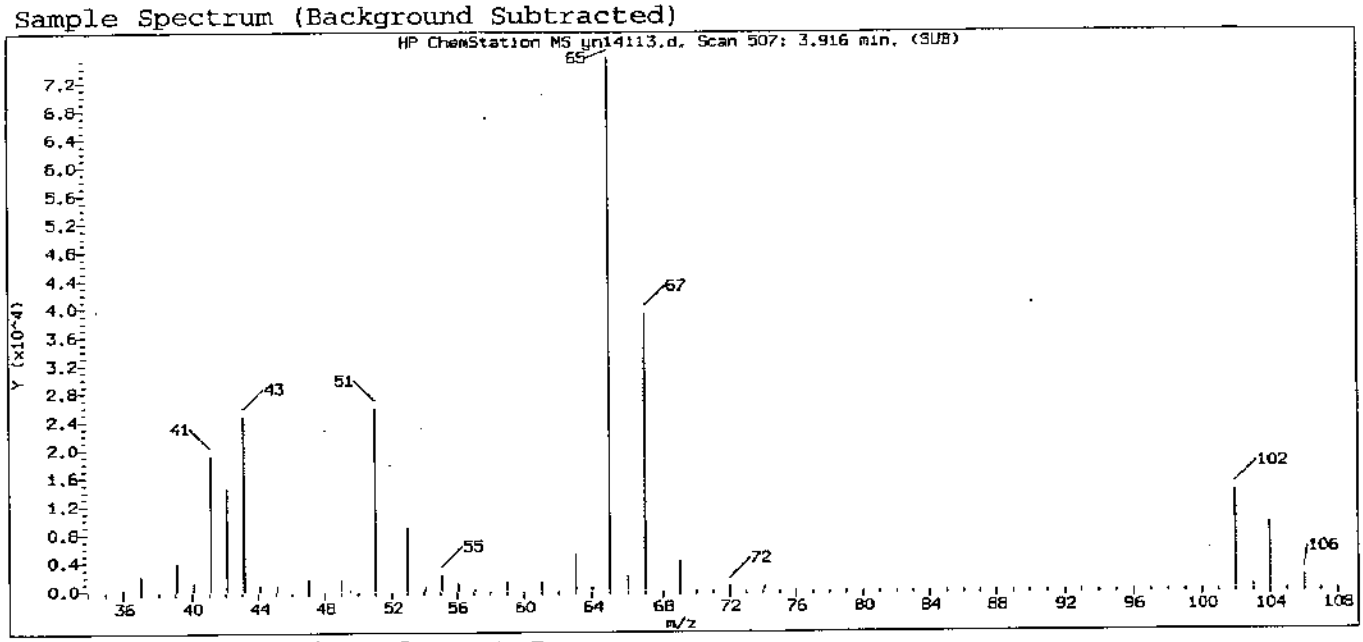
Compound Number	: 59		
Compound Name	: Isobutyl Alcohol		
Scan Number	: 507		
Retention Time (minutes)	: 3.916		
Quant Ion	: 41.00		
Area (flag)	: 107359M		
On-Column Amount (ng)	: 206.8077		
Integration start scan	: 485	Integration stop scan:	530
Y at integration start	: 323	Y at integration end:	323

Reason for manual integration: improper integration

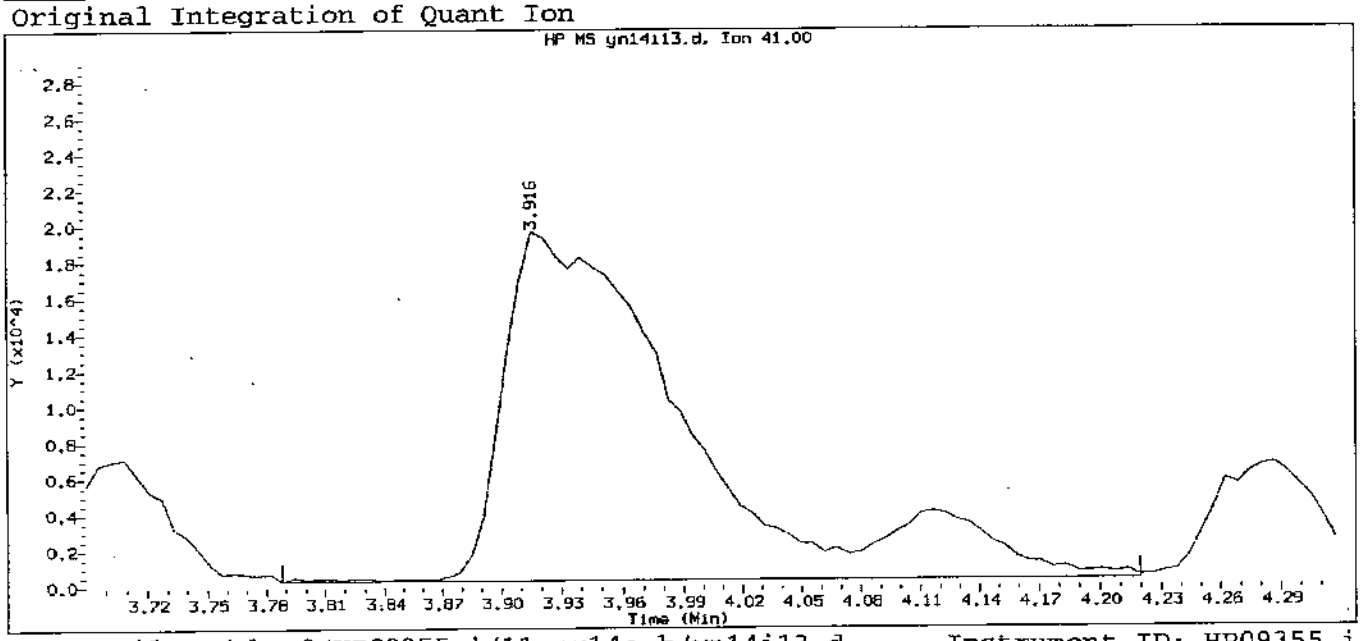
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0256

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

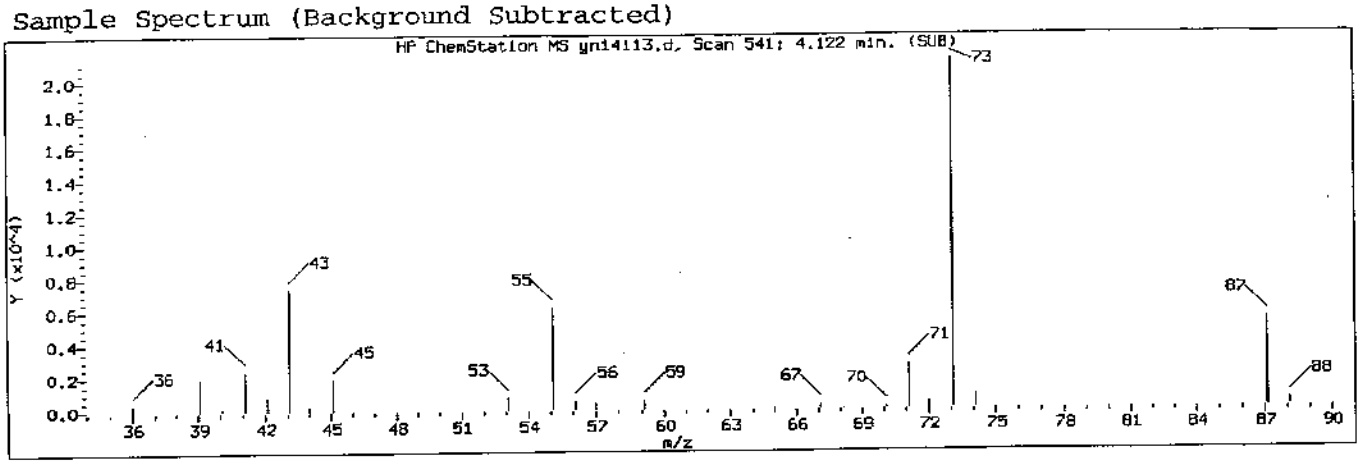
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 59		
Compound Name	: Isobutyl Alcohol		
Scan Number	: 507		
Retention Time (minutes)	: 3.916		
Quant Ion	: 41.00		
Area	: 123894		
On-column Amount (ng)	: 232.4871		
Integration start scan	: 485	Integration stop scan:	556
Y at integration start	: 323	Y at integration end:	323

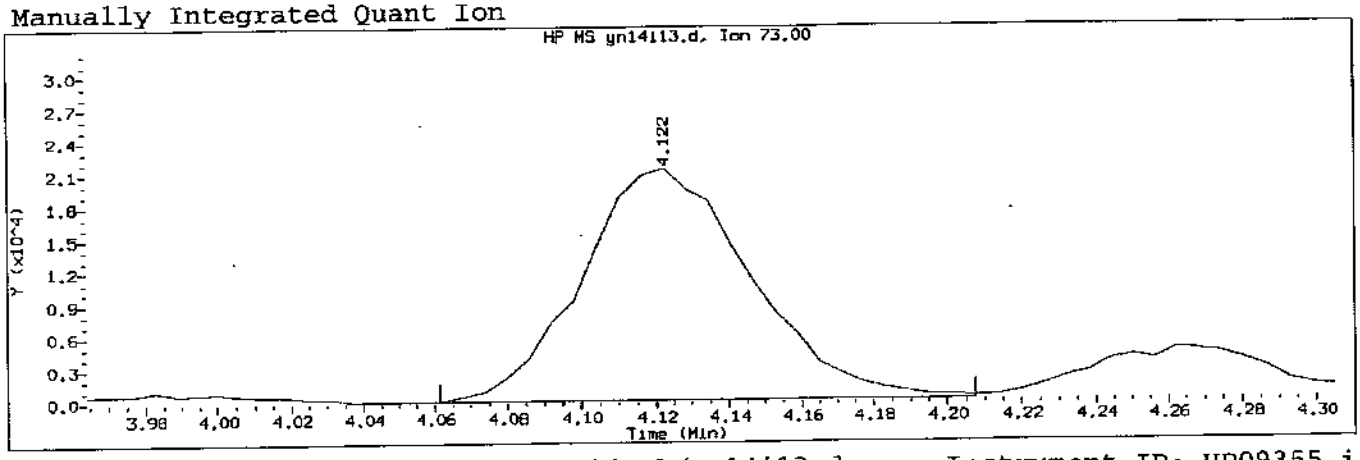
PCH09 8257

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

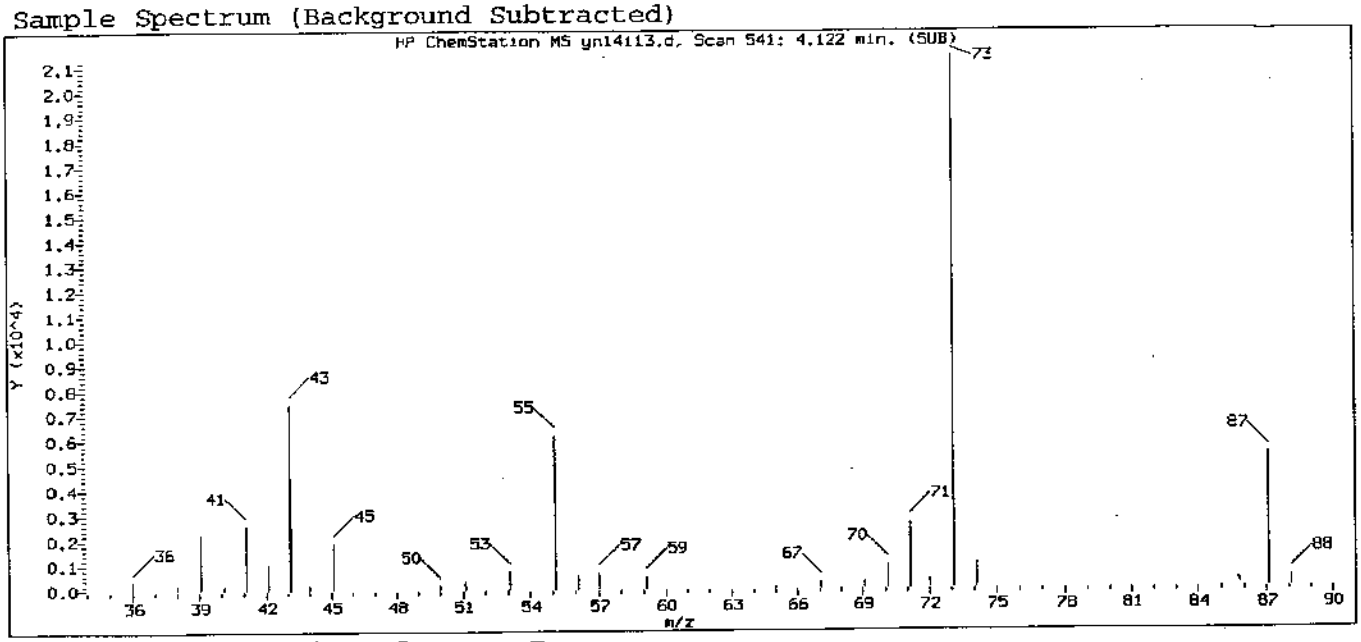
Compound Number	: 69		
Compound Name	: t-Amyl Methyl Ether		
Scan Number	: 541		
Retention Time (minutes)	: 4.122		
Quant Ion	: 73.00		
Area (flag)	: 68212M		
On-Column Amount (ng)	: 3.8946		
Integration start scan	: 530	Integration stop scan:	554
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

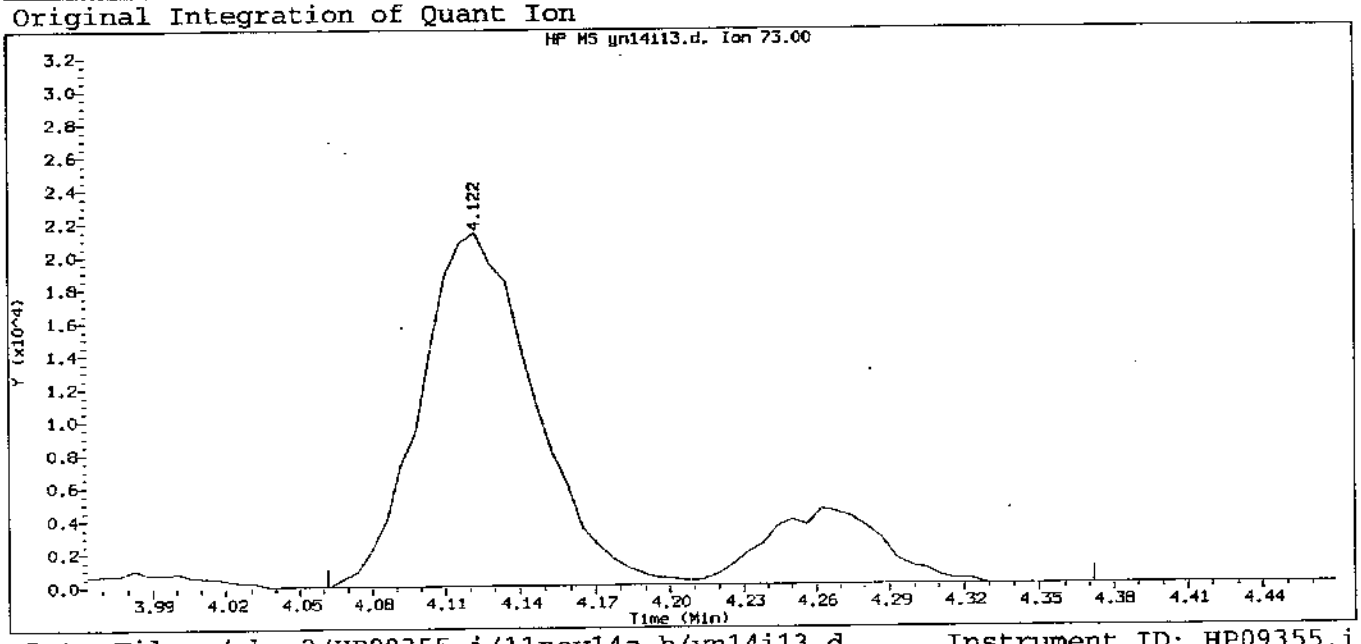
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0258

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

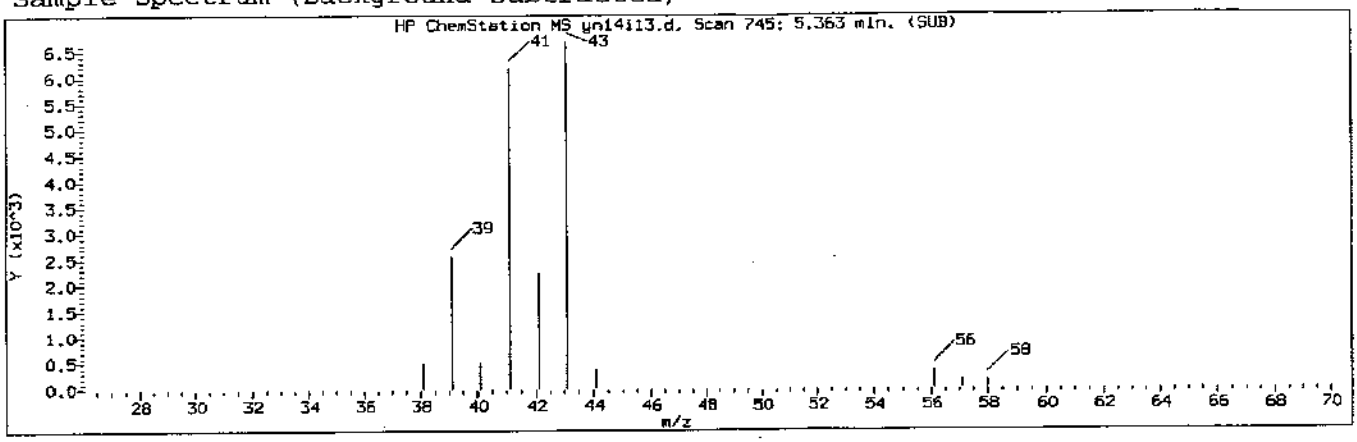
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 69		
Compound Name	: t-Amyl Methyl Ether		
Scan Number	: 541		
Retention Time (minutes)	: 4.122		
Quant Ion	: 73.00		
Area	: 83453		
On-column Amount (ng)	: 4.5981		
Integration start scan	: 530	Integration stop scan:	581
Y at integration start	: 0	Y at integration end:	0

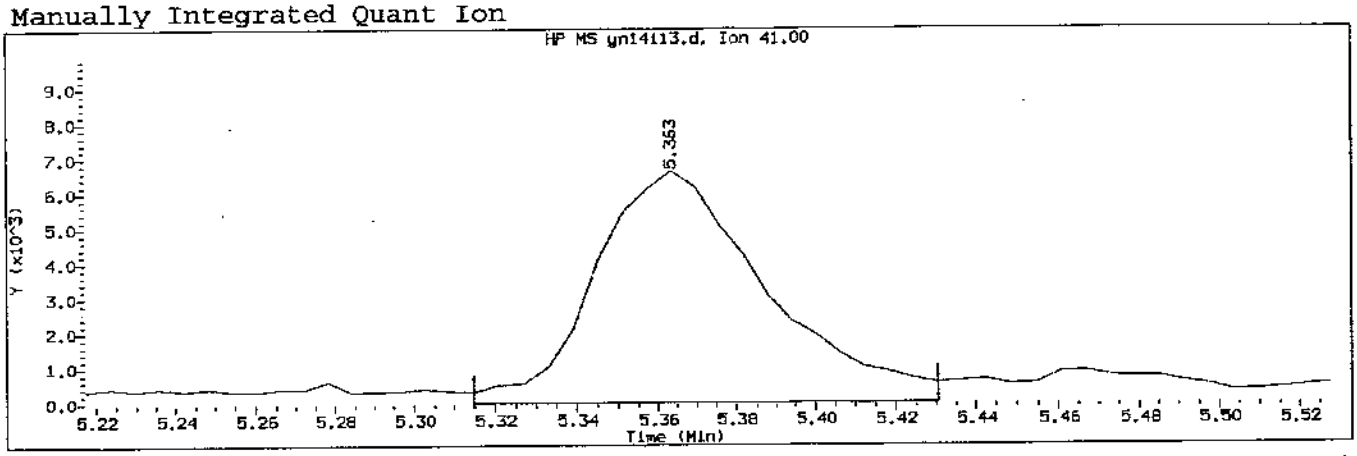
PCH09 0259

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 17:37 fav02618

Sample Name: VSTD004 Lab Sample ID: VSTD004

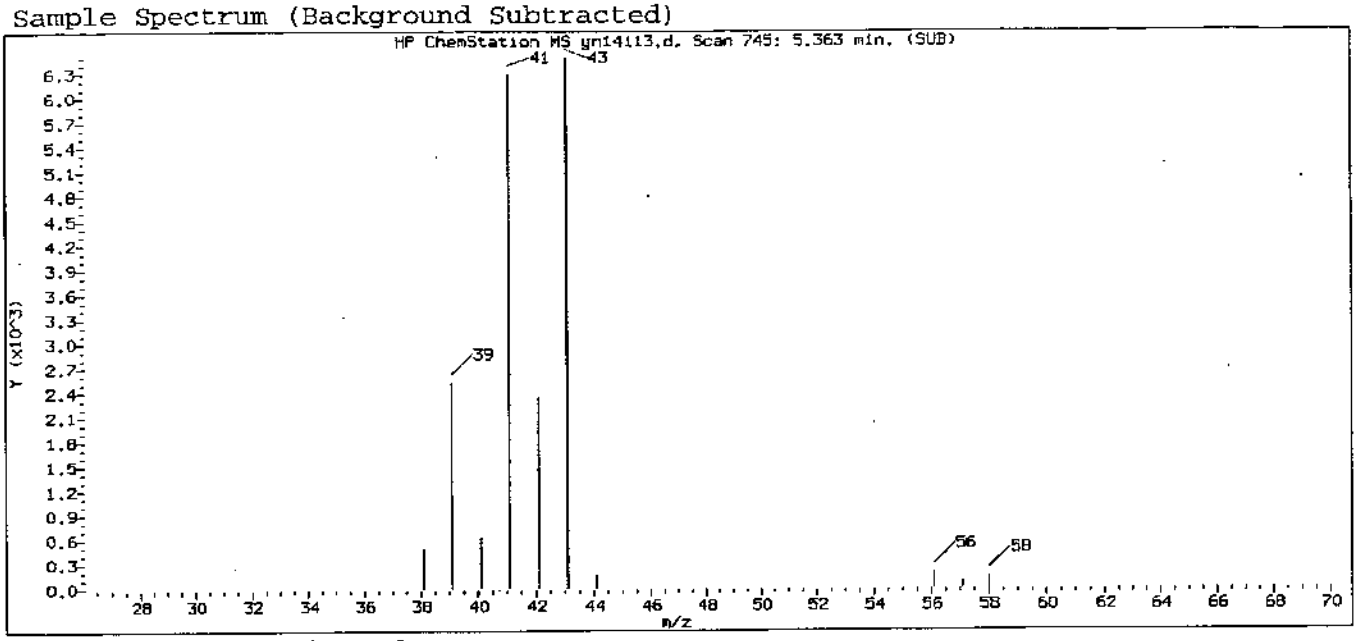
Compound Number	: 85		
Compound Name	: 2-Nitropropane		
Scan Number	: 745		
Retention Time (minutes)	: 5.363		
Quant Ion	: 41.00		
Area (flag)	: 19824M		
On-Column Amount (ng)	: 6.6859		
Integration start scan	: 736	Integration stop scan:	755
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

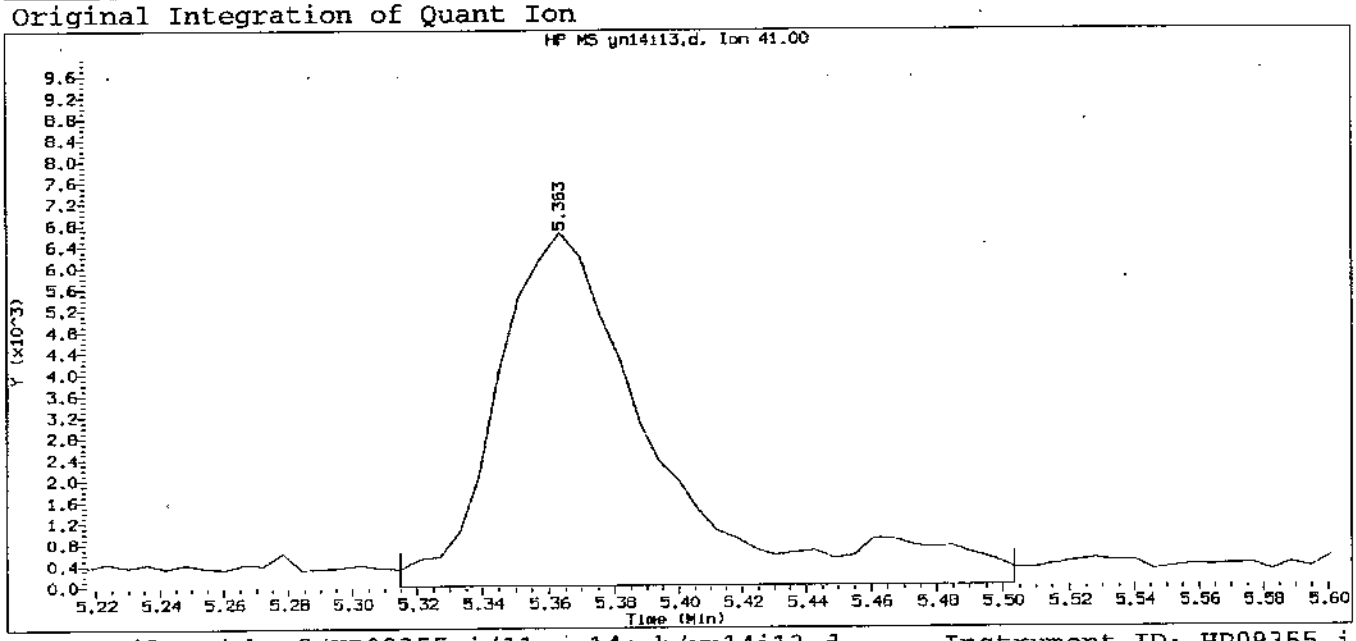
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8260

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14i13.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:31 Analyst ID: NRR01826

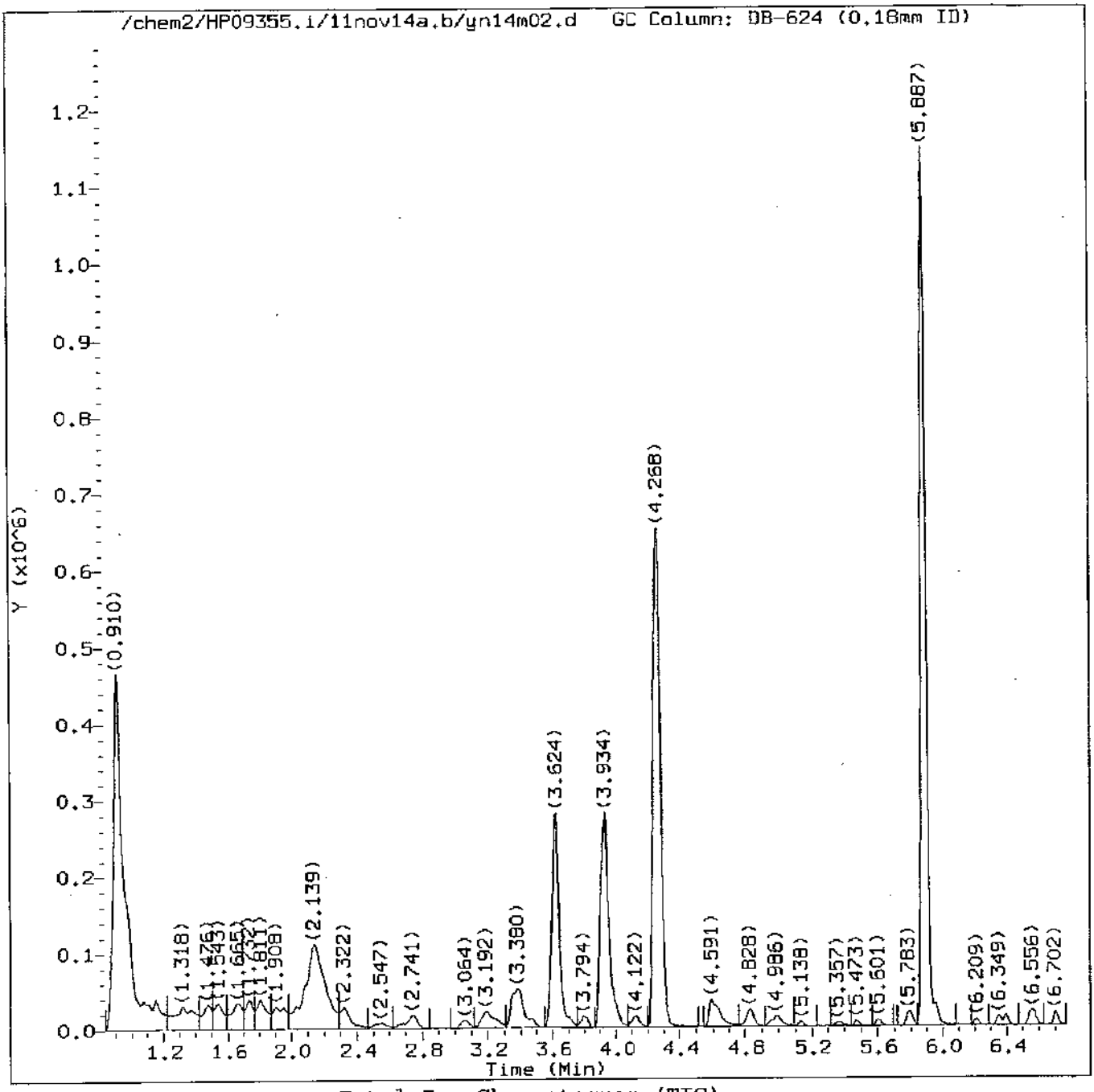
Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 14-NOV-2011 16:46
Date, time and analyst ID of latest file update: 14-Nov-2011 16:46 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 85		
Compound Name	: 2-Nitropropane		
Scan Number	: 745		
Retention Time (minutes)	: 5.363		
Quant Ion	: 41.00		
Area	: 22506		
On-column Amount (ng)	: 8.2388		
Integration start scan	: 736	Integration stop scan:	767
Y at integration start	: 0	Y at integration end:	0

PCH05 8261

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Target 3.5 esignature user ID: fav02618



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d
Injection date and time: 14-NOV-2011 16:52

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 18:10

Sublist used: 8260W

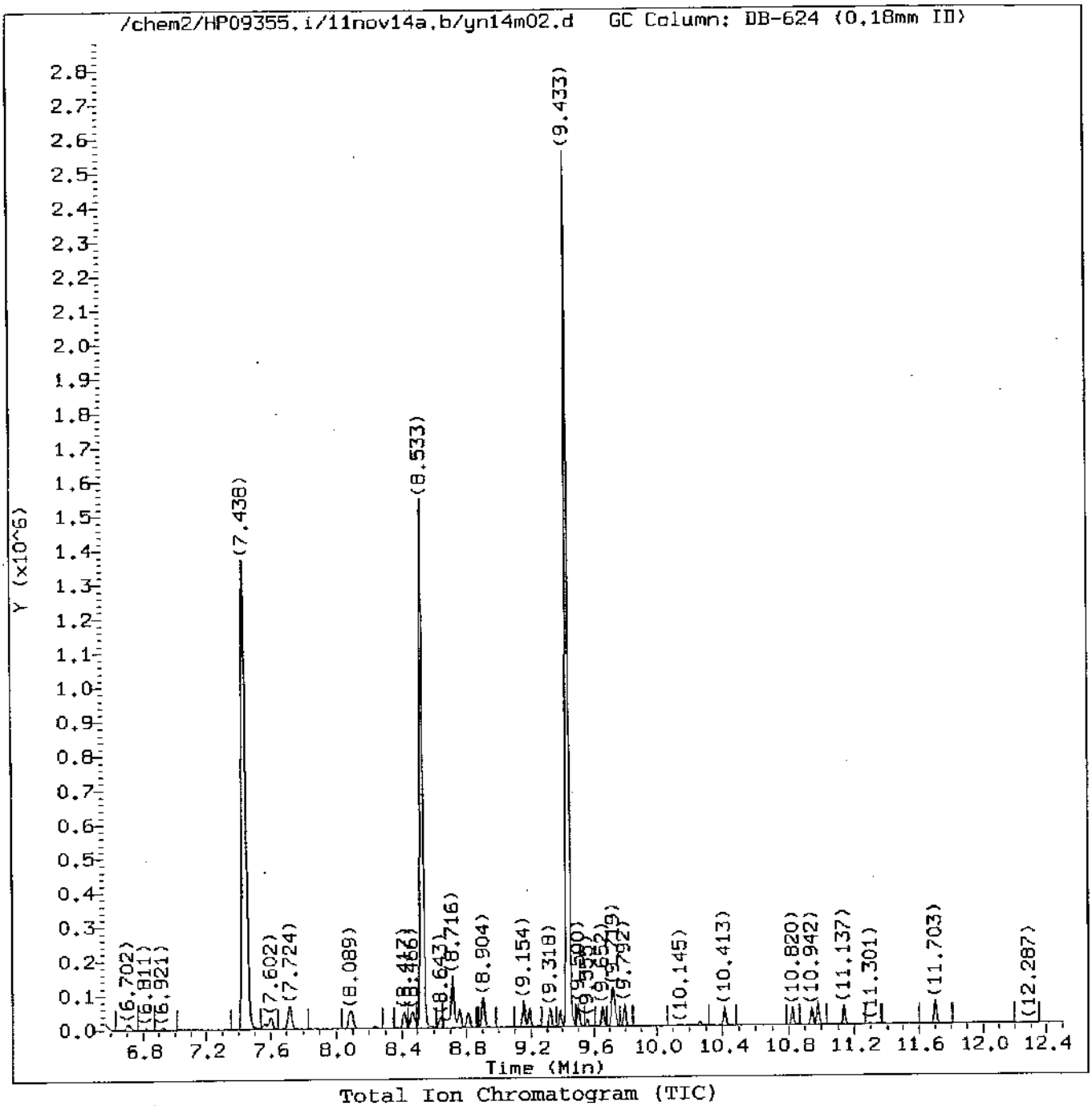
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001

Lab Sample ID: MDL001

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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH05 6262



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d
Injection date and time: 14-NOV-2011 16:52

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sublist used: 8260W

Sample Name: MDL001

Lab Sample ID: MDL001

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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 8263

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d
Injection date and time: 14-NOV-2011 16:52
Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 18:10
Sublist used: 8260W
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001
Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.050	85	9209	0.848
3) Chloromethane	(1)	1.075	50	10168	1.021
5) Vinyl Chloride	(1)	1.154	62	10460	1.039
4) 1,3-Butadiene	(1)	1.160	39	8468M	1.594
7) Bromomethane	(1)	1.324	94	7899	1.035
8) Chloroethane	(1)	1.373	64	6059	1.053
9) Dichlorofluoromethane	(1)	1.470	67	16883	1.142
10) Trichlorofluoromethane	(1)	1.543	101	13443M	0.946
11) n-Pentane	(1)	1.549	43	8777	0.899
13) Ethyl Ether	(1)	1.659	59	5704	0.932
14) Freon 123a	(1)	1.671	67	11985	1.313
15) Acrolein	(4)	1.738	56	35404	11.864
16) 1,1-Dichloroethene	(1)	1.811	96	6888	0.962
18) Freon 113	(1)	1.823	101	5842	0.777
17) Acetone	(1)	1.829	58	3827	2.358
20) Methyl Iodide	(1)	1.908	142	12673	0.869
21) 2-Propanol	(4)	1.920	45	28680	24.722
22) Carbon Disulfide	(1)	1.951	76	16423	0.808
24) Allyl Chloride	(1)	2.030	41	15126	1.498
25) Methyl Acetate	(1)	2.042	43	19233M	1.977
26) Methylene Chloride	(1)	2.115	84	6079	0.993
28)*t-Butyl Alcohol-d10	(4)	2.139	65	372473	250.000
29) t-Butyl Alcohol	(4)	2.206	59	35903	21.743
30) Acrylonitrile	(1)	2.303	53	4503M	1.027
31) trans-1,2-Dichloroethene	(1)	2.322	96	5015	0.853
32) Methyl Tertiary Butyl Ether	(1)	2.328	73	17844	0.935
33) n-Hexane	(1)	2.547	57	6195	0.764
34) 1,1-Dichloroethane	(1)	2.662	63	8755	0.850
36) di-Isopropyl Ether	(1)	2.741	45	16414	0.886
37) 2-Chloro-1,3-Butadiene	(1)	2.748	53	7645	0.831
39) Ethyl t-Butyl Ether	(1)	3.058	59	15611	0.853
41) 2-Butanone	(1)	3.155	43	13315	2.197
40) cis-1,2-Dichloroethene	(1)	3.180	96	5346	0.834
42) 2,2-Dichloropropane	(1)	3.186	77	7159	0.832
43) Propionitrile	(4)	3.246	54	32116	17.857
46) Methacrylonitrile	(1)	3.374	67	37363	9.105
47) Bromochloromethane	(1)	3.399	128	2957	0.858
48) Tetrahydrofuran	(4)	3.447	71	2875	1.693

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

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Target 3.5 esignature user ID: fav02618

PCH09 8264

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Chloroform	(1)	3.472	83	8899	0.864
52)$Dibromofluoromethane	(1)	3.624	113	256162	49.943
45) 1,2-Dichloroethene (total)	(1)		96	10361	1.688
53) 1,1,1-Trichloroethane	(1)	3.648	97	9641	0.923
56) Cyclohexane	(1)	3.703	56	8376	0.854
57) 1,1-Dichloropropene	(1)	3.800	75	6824	0.843
58) Carbon Tetrachloride	(1)	3.806	117	6133	0.750
59) Isobutyl Alcohol	(4)	3.922	41	26939M	49.980
62)$1,2-Dichloroethane-d4	(1)	3.934	102	62352	49.552
63) Benzene	(1)	3.995	78	20191	0.859
65) 1,2-Dichloroethane	(1)	4.007	62	8447	0.908
69) t-Amyl Methyl Ether	(1)	4.122	73	15042	0.867
71)*Fluorobenzene	(1)	4.268	96	1036007	50.000
72) n-Heptane	(1)	4.275	43	9409	1.022
73) n-Butanol	(4)	4.591	56	37804M	84.032
74) Trichloroethene	(1)	4.627	95	5372	0.847
76) Methylcyclohexane	(1)	4.828	83	7663	0.730
77) 1,2-Dichloropropane	(1)	4.846	63	4987	0.813
78) Dibromomethane	(1)	4.956	93	3735	0.872
79) 1,4-Dioxane	(4)	4.992	88	5536	37.794
80) Methyl Methacrylate	(1)	4.998	69	5314	0.847
83) Bromodichloromethane	(1)	5.126	83	5604	0.757
85) 2-Nitropropane	(1)	5.370	41	6499	2.212
86) 2-Chloroethyl Vinyl Ether	(1)	5.467	63	3818	0.801
87) cis-1,3-Dichloropropene	(1)	5.601	75	6563	0.726
89) 4-Methyl-2-Pentanone	(1)	5.789	43	19288	1.676
93)$Toluene-d8	(2)	5.887	98	1036386	50.259
94) Toluene	(2)	5.960	92	13559	0.880
95) trans-1,3-Dichloropropene	(2)	6.209	75	5751	0.669
96) Ethyl Methacrylate	(2)	6.355	69	7152	0.744
97) 1,1,2-Trichloroethane	(2)	6.398	97	4883	0.826
98) Tetrachloroethene	(2)	6.544	166	6528	0.858
99) 1,3-Dichloropropane	(2)	6.574	76	8684	0.874
101) 2-Hexanone	(2)	6.702	43	16236	1.798
102) Dibromochloromethane	(2)	6.811	129	3926	0.673
104) 1,2-Dibromoethane	(2)	6.921	107	5204	0.803
106)*Chlorobenzene-d5	(2)	7.444	117	781726	50.000
107) Chlorobenzene	(2)	7.468	112	15411	0.856

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: fav02618

PCH09 8265

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
108) 1,1,1,2-Tetrachloroethane	(2)	7.566	131	4196	0.689
109) Ethylbenzene	(2)	7.602	91	24778	0.820
110) m+p-Xylene	(2)	7.724	106	19731	1.549
113) o-Xylene	(2)	8.083	106	9652	0.759
114) Styrene	(2)	8.095	104	14212	0.685
112) Xylene (Total)	(2)		106	29383	2.308
115) Bromoform	(2)	8.241	173	2681	4.314
116) Isopropylbenzene	(2)	8.417	105	25502	0.802
118) Cyclohexanone	(4)	8.466	55	22853M	44.141
119)$4-Bromofluorobenzene	(2)	8.527	95	393278	50.481
121) Bromobenzene	(3)	8.643	156	7025	0.898
122) 1,1,2,2-Tetrachloroethane	(3)	8.667	83	8163	0.883
123) 1,2,3-Trichloropropane	(3)	8.691	110	3097	0.985
124) trans-1,4-Dichloro-2-Butene	(3)	8.716	53	26565	7.920
125) n-Propylbenzene	(3)	8.758	91	31135	0.949
126) 2-Chlorotoluene	(3)	8.813	126	6354	0.875
128) 4-Chlorotoluene	(3)	8.898	126	6617	0.837
127) 1,3,5-Trimethylbenzene	(3)	8.904	105	21744	0.845
130) tert-Butylbenzene	(3)	9.154	134	5365	0.860
131) Pentachloroethane	(3)	9.160	167	3043	0.646
132) 1,2,4-Trimethylbenzene	(3)	9.190	105	21970	0.855
133) sec-Butylbenzene	(3)	9.318	105	28743	0.928
134) 1,3-Dichlorobenzene	(3)	9.385	146	14140	0.921
136)*1,4-Dichlorobenzene-d4	(3)	9.433	152	494256	50.000
135) p-Isopropyltoluene	(3)	9.433	119	26297	0.885
138) 1,4-Dichlorobenzene	(3)	9.452	146	15369	0.933
139) 1,2,3-Trimethylbenzene	(3)	9.500	105	24120	0.917
141) Benzyl Chloride	(3)	9.555	91	10642	0.618
142) 1,3-Diethylbenzene	(3)	9.659	119	14044	0.831
143) 1,4-Diethylbenzene	(3)	9.713	119	15637	0.840
144) 1,2-Dichlorobenzene	(3)	9.719	146	14708	0.902
145) n-Butylbenzene	(3)	9.732	92	13080	0.900
146) 1,2-Diethylbenzene	(3)	9.792	119	13108M	0.895
148) 1,2-Dibromo-3-Chloropropane	(3)	10.261	75	1841	0.749
149) 1,3,5-Trichlorobenzene	(3)	10.413	180	12012	0.962
150) 1,2,4-Trichlorobenzene	(3)	10.827	180	11628	1.006
151) Hexachlorobutadiene	(3)	10.942	225	6610	1.191
152) Naphthalene	(3)	10.979	128	37764	0.961

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

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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 0266

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d
Injection date and time: 14-NOV-2011 16:52

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sublist used: 8260W

Sample Name: MDL001

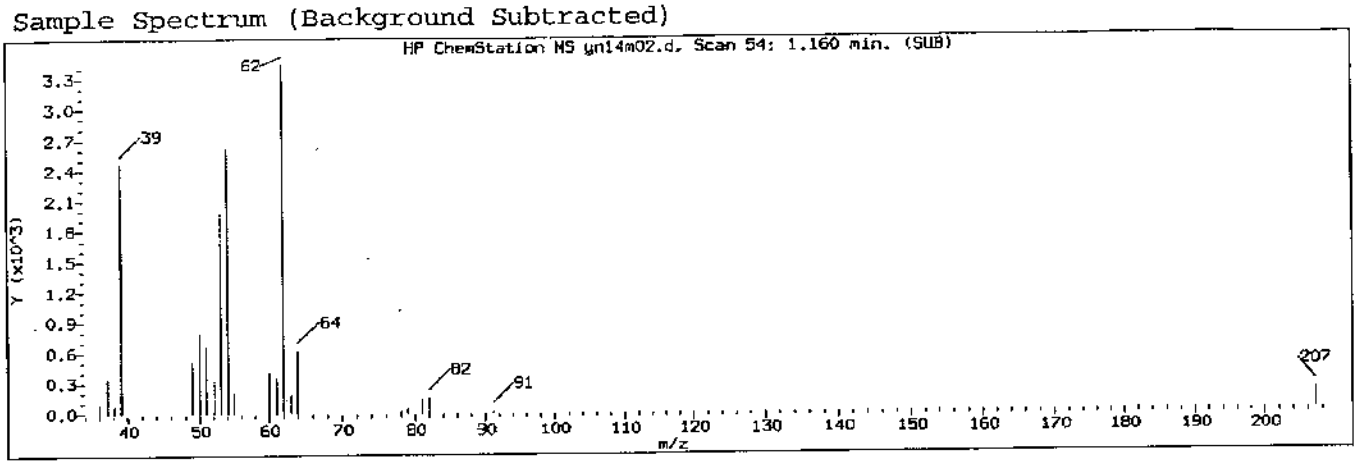
Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
153) 1,2,3-Trichlorobenzene	(3)	11.137	180	12424	1.089
154) 2-Methylnaphthalene	(3)	11.703	142	23467	1.029

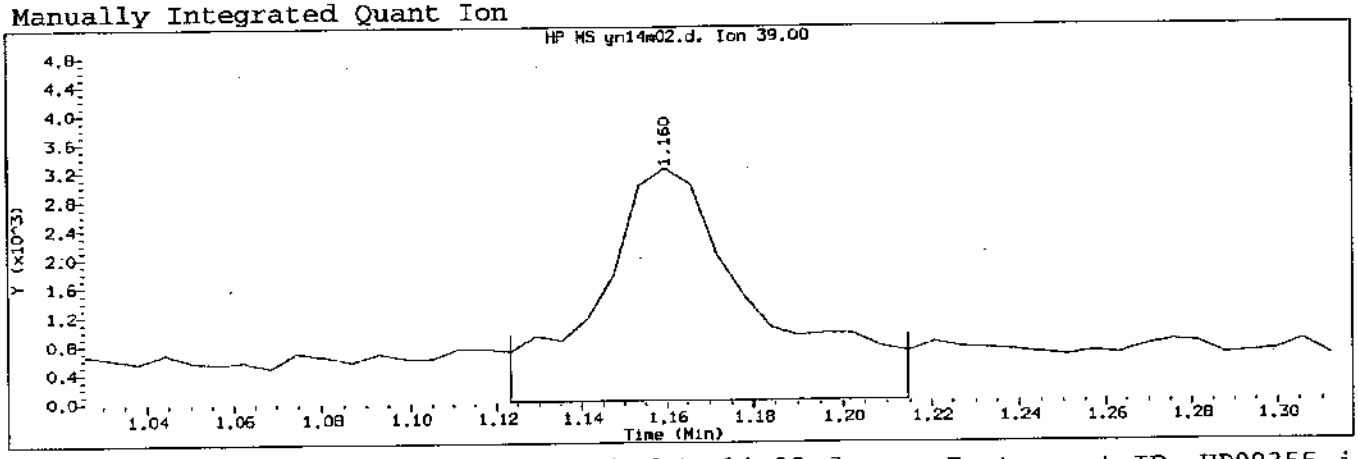
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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 0267

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

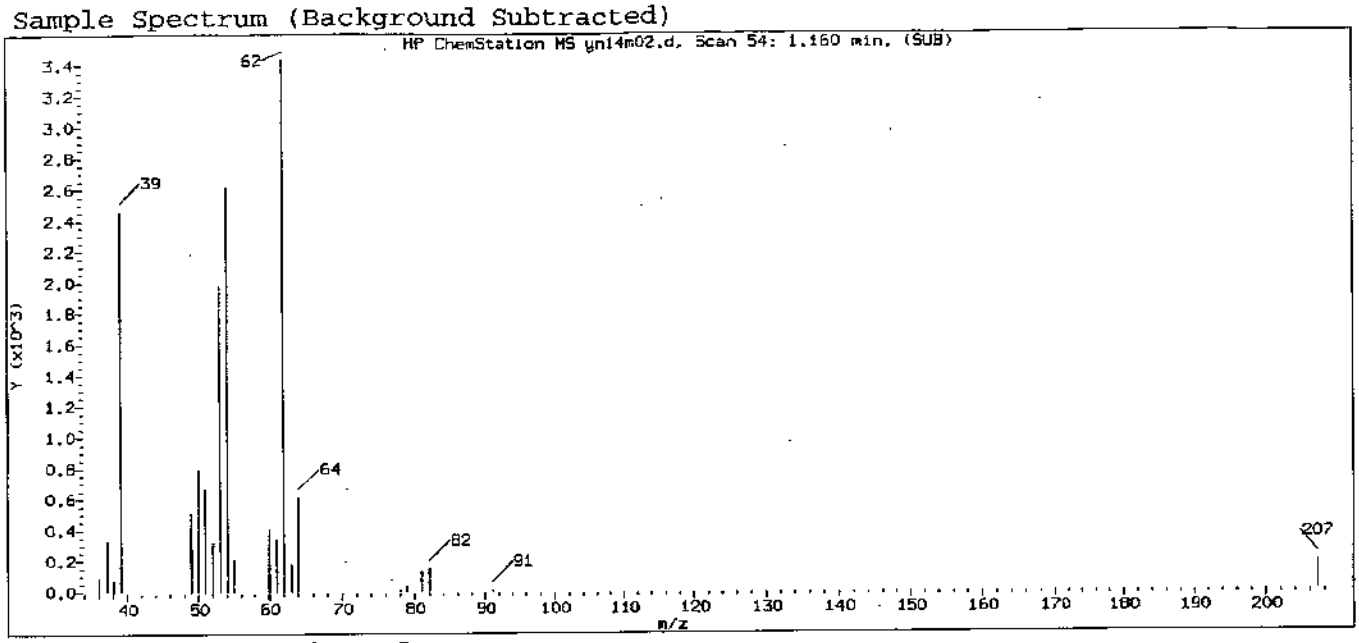
Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 54		
Retention Time (minutes)	: 1.160		
Quant Ion	: 39.00		
Area (flag)	: 8468M		
On-Column Amount (ng)	: 1.5944		
Integration start scan	: 47	Integration stop scan:	62
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

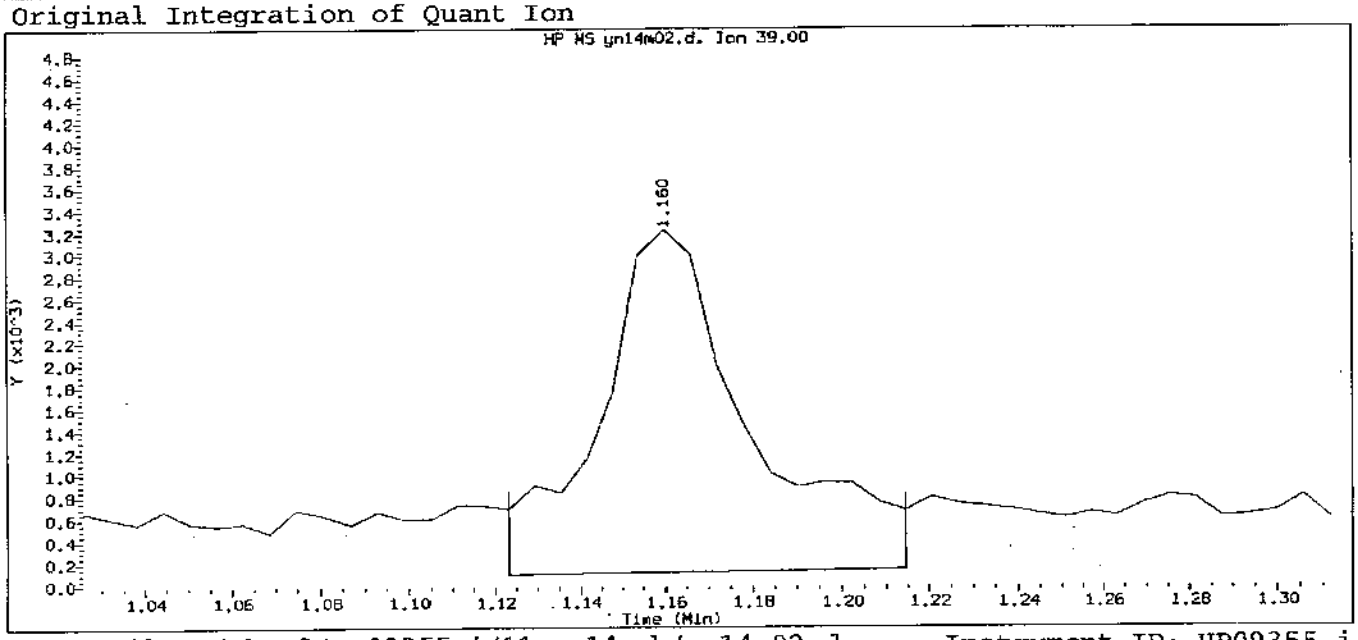
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 02688

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

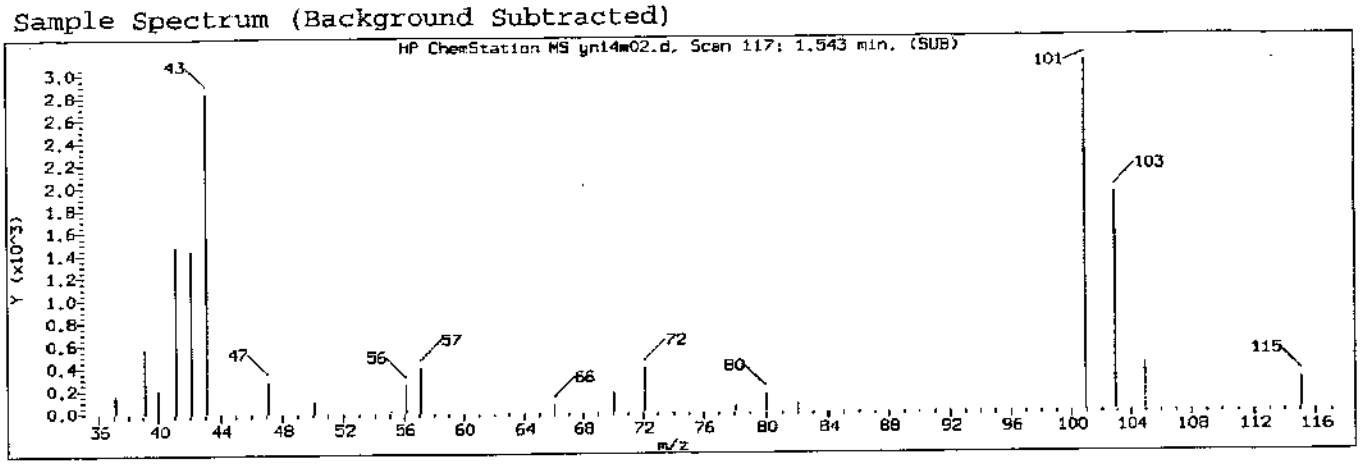
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 54		
Retention Time (minutes)	: 1.160		
Quant Ion	: 39.00		
Area	: 7561		
On-column Amount (ng)	: 1.4238		
Integration start scan	: 47	Integration stop scan:	62
Y at integration start	: 100	Y at integration end:	140

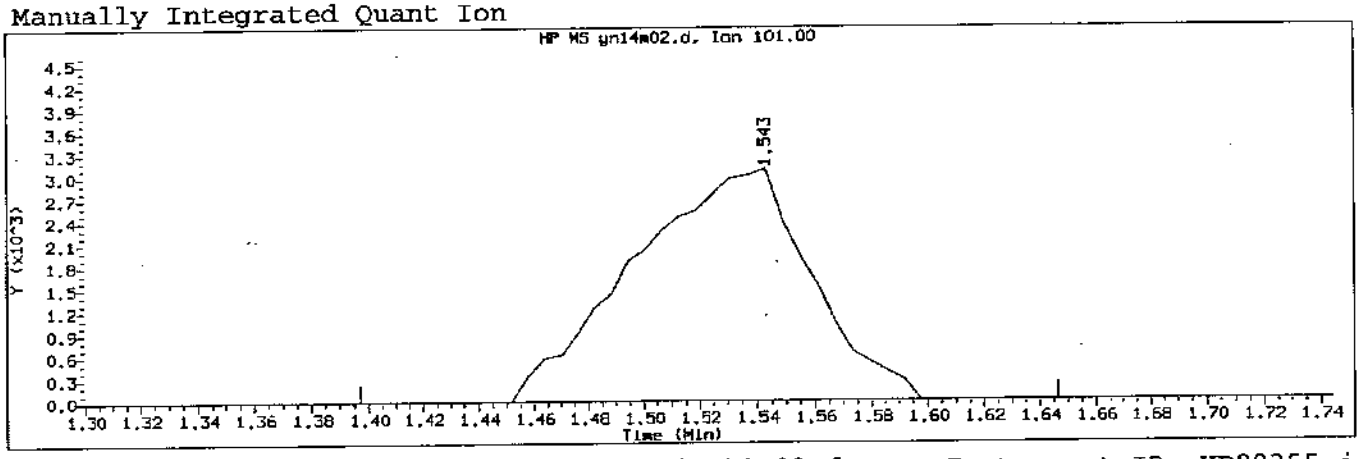
PCH09 0269

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Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

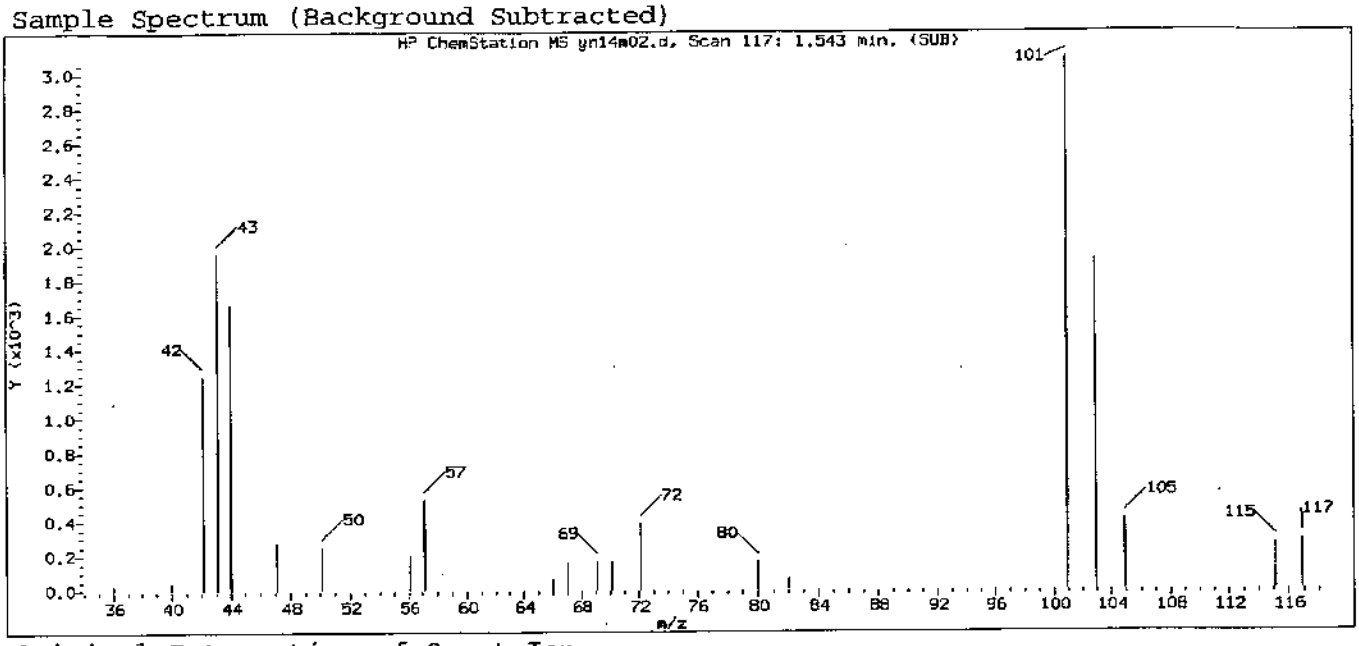
Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 117		
Retention Time (minutes)	: 1.543		
Quant Ion	: 101.00		
Area (flag)	: 13443M		
On-Column Amount (ng)	: 0.9459		
Integration start scan	: 92	Integration stop scan:	133
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

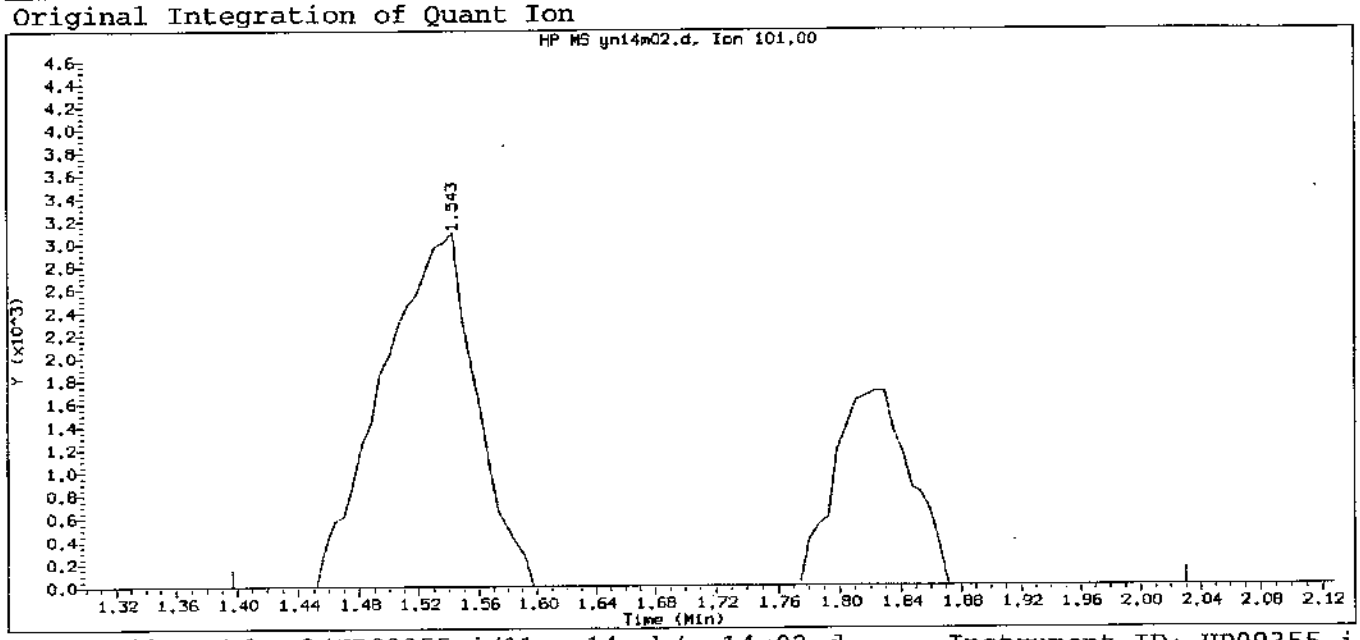
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8278

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

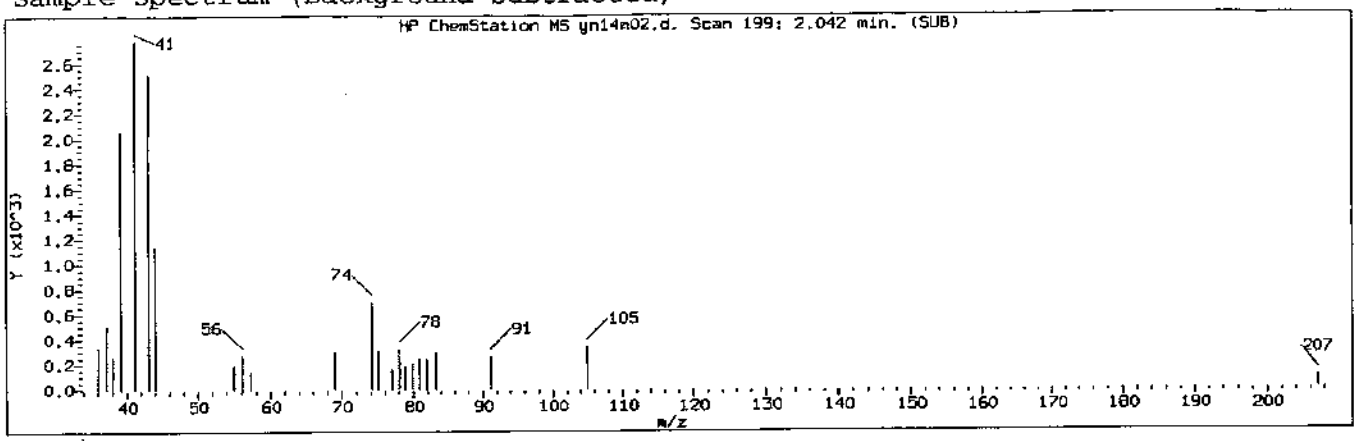
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 117		
Retention Time (minutes)	: 1.543		
Quant Ion	: 101.00		
Area	: 19285		
On-column Amount (ng)	: 1.3570		
Integration start scan	: 92	Integration stop scan:	196
Y at integration start	: 0	Y at integration end:	0

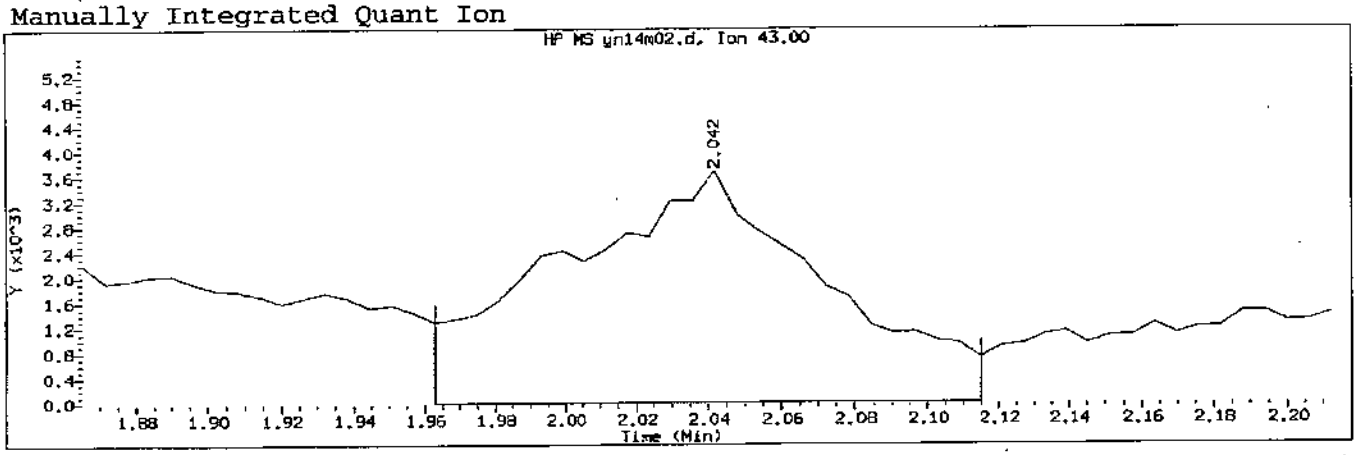
PCH09 0271

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30:
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

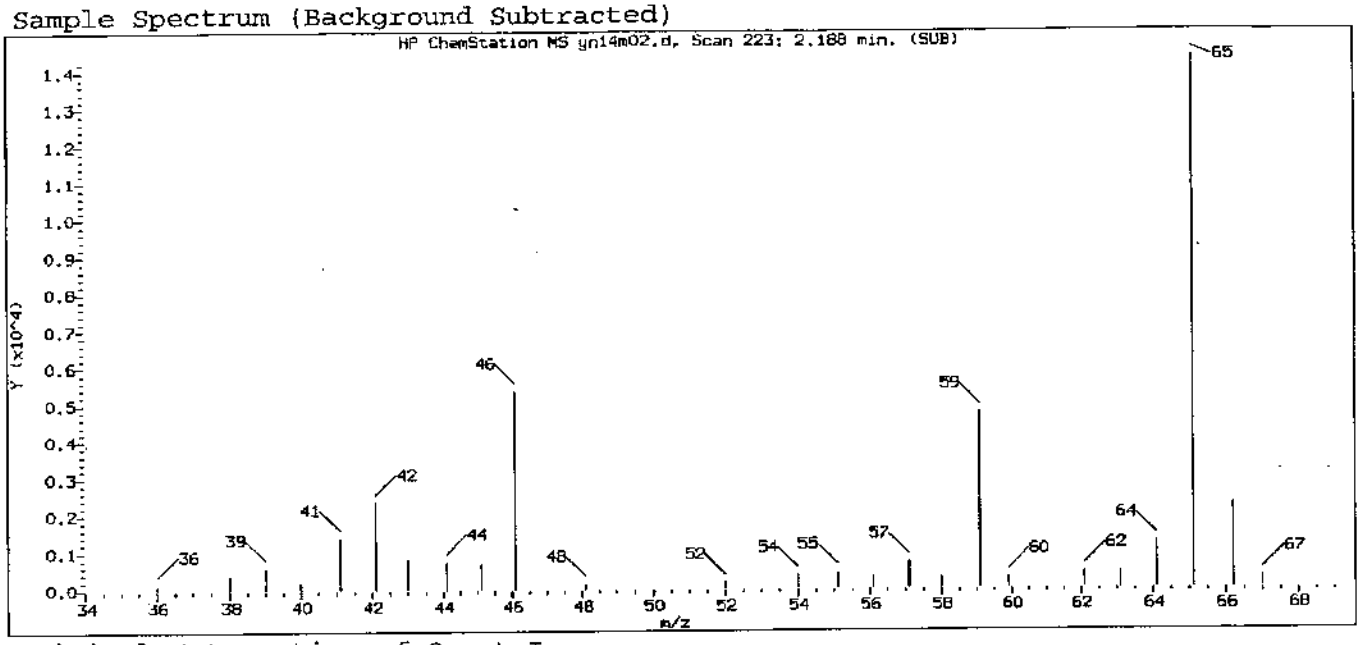
Compound Number	: 25		
Compound Name	: Methyl Acetate		
Scan Number	: 199		
Retention Time (minutes)	: 2.042		
Quant Ion	: 43.00		
Area (flag)	: 19233M		
On-Column Amount (ng)	: 1.9773		
Integration start scan	: 185	Integration stop scan:	210
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

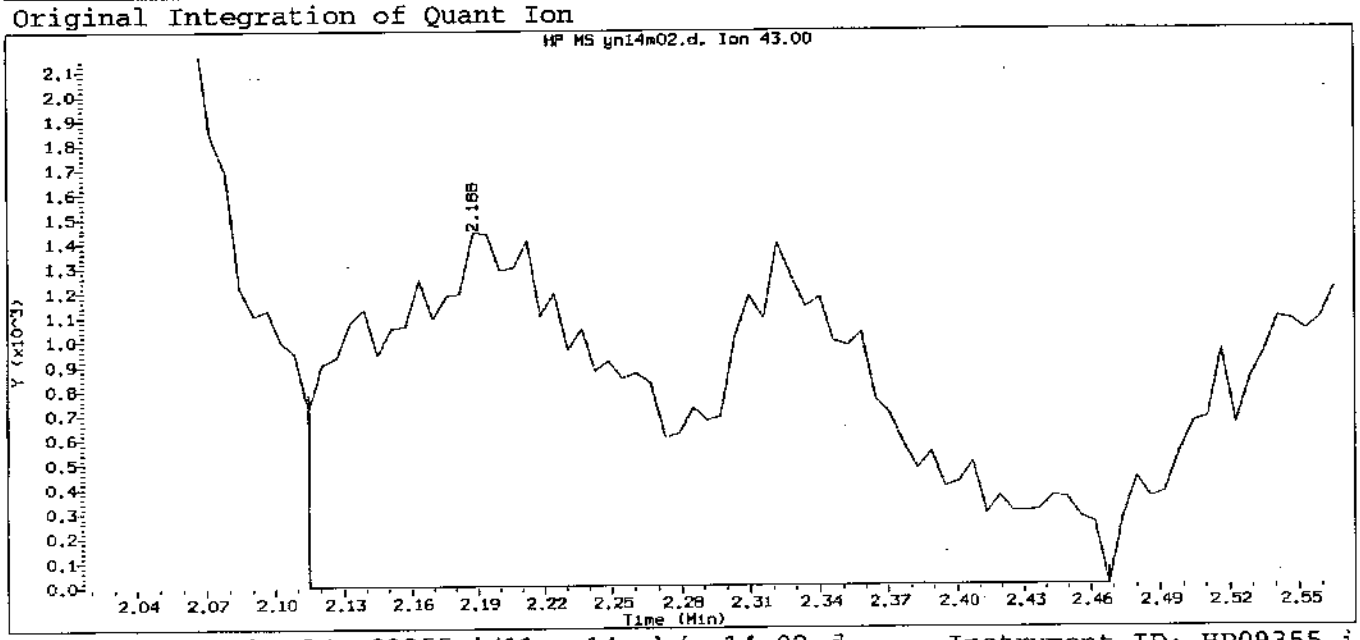
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8272

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

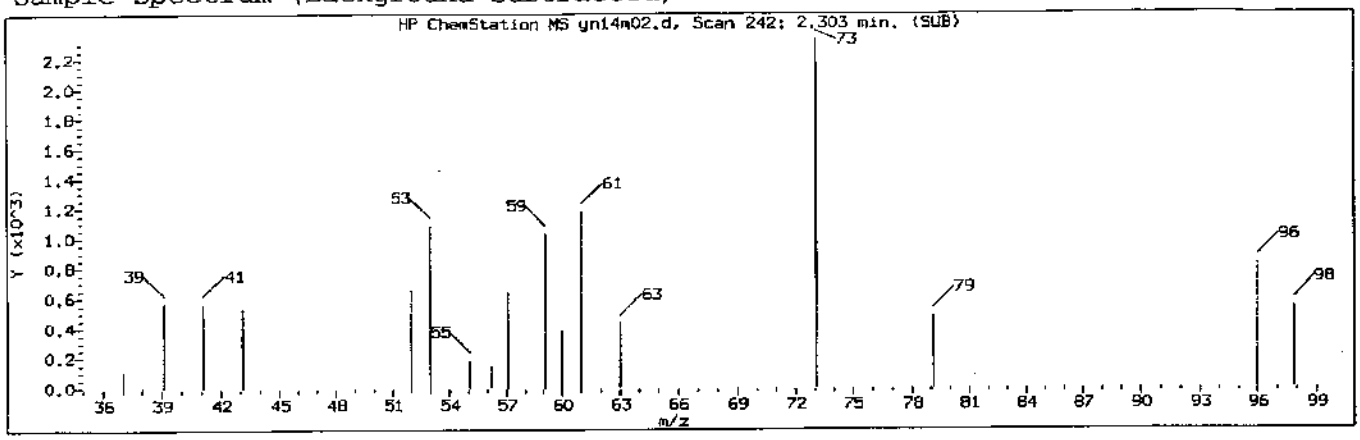
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 25		
Compound Name	: Methyl Acetate		
Scan Number	: 223		
Retention Time (minutes)	: 2.188		
Quant Ion	: 43.00		
Area	: 18041		
On-column Amount (ng)	: 1.8548		
Integration start scan	: 210	Integration stop scan:	268
Y at integration start	: 0	Y at integration end:	0

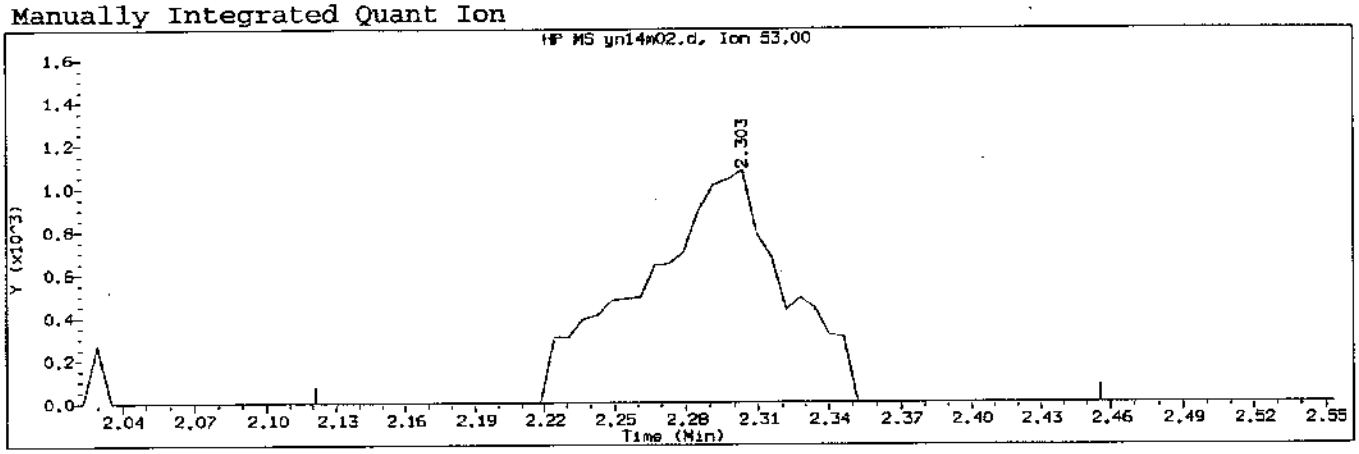
PCH69 0273

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

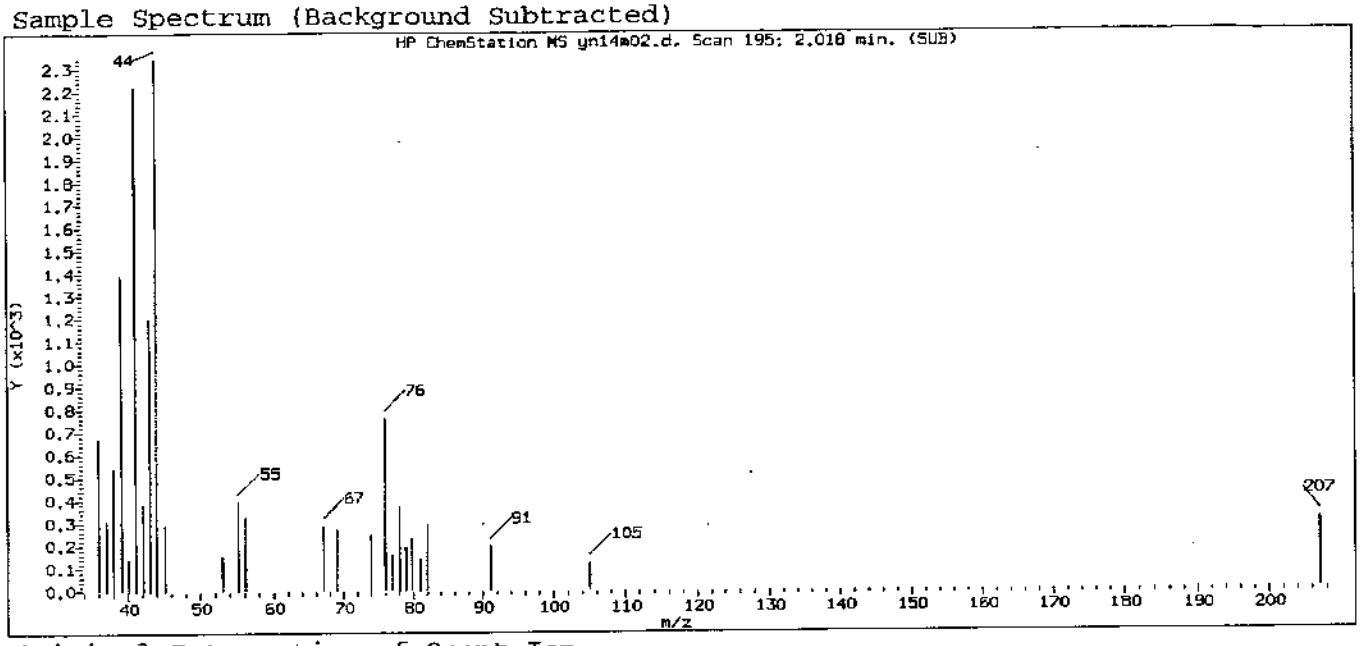
Compound Number : 30
Compound Name : Acrylonitrile
Scan Number : 242
Retention Time (minutes): 2.303
Quant Ion : 53.00
Area (flag) : 4503M
On-Column Amount (ng) : 1.0272
Integration start scan : 211 Integration stop scan: 266
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

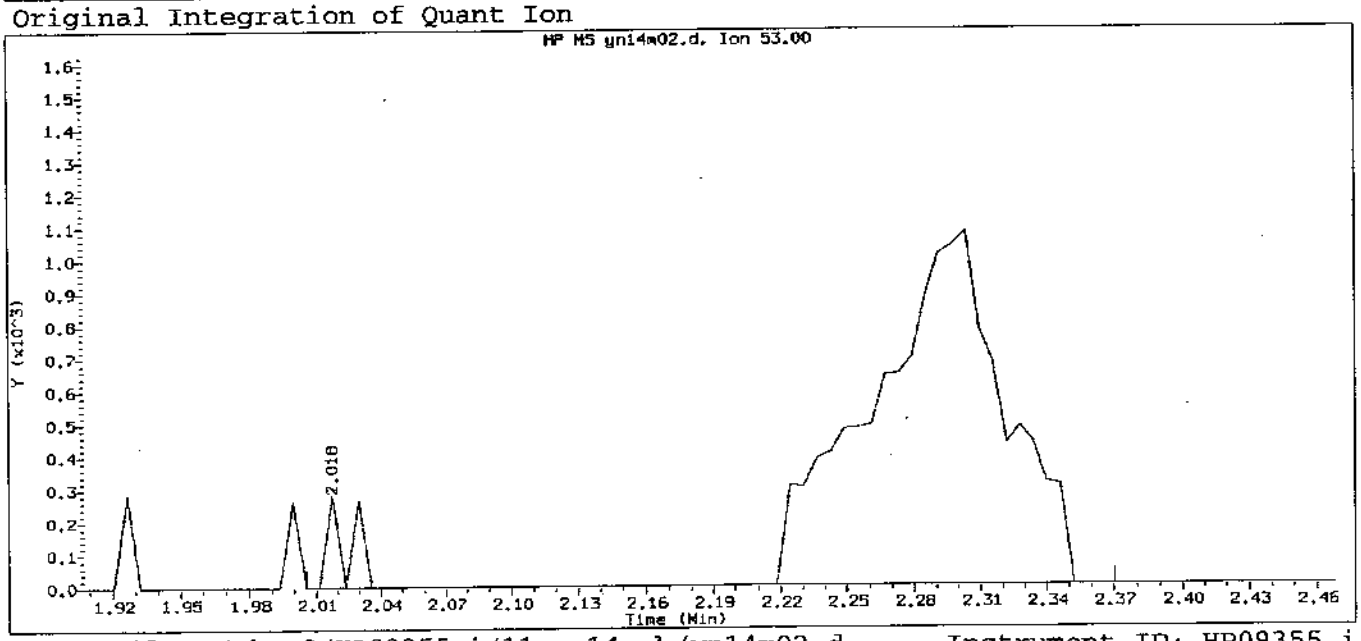
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8274

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

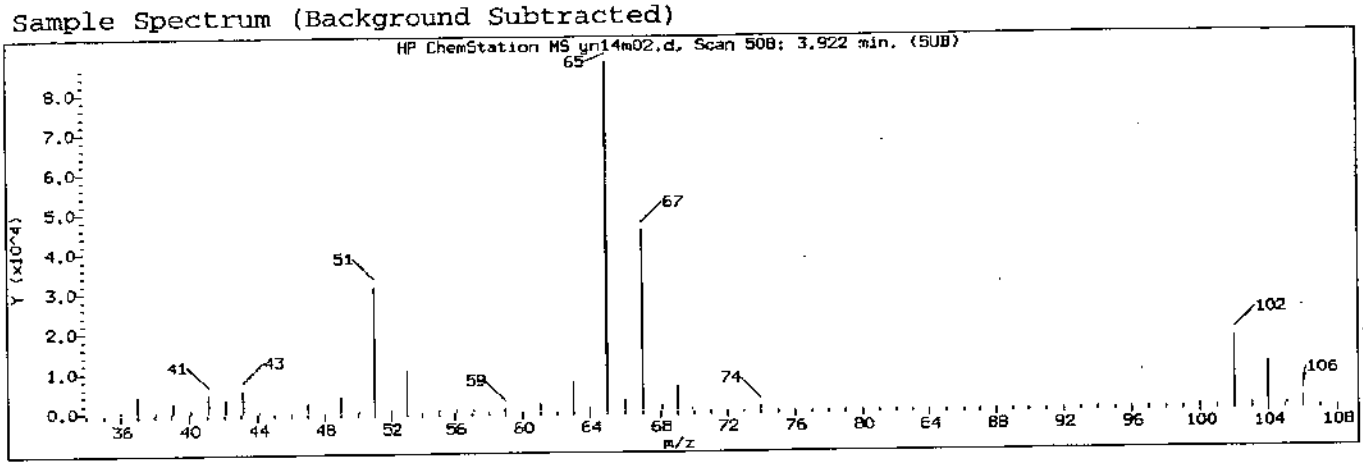
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 30		
Compound Name	: Acrylonitrile		
Scan Number	: 195		
Retention Time (minutes)	: 2.018		
Quant Ion	: 53.00		
Area	: 4705		
On-column Amount (ng)	: 1.0733		
Integration start scan	: 192	Integration stop scan:	252
Y at integration start	: 0	Y at integration end:	0

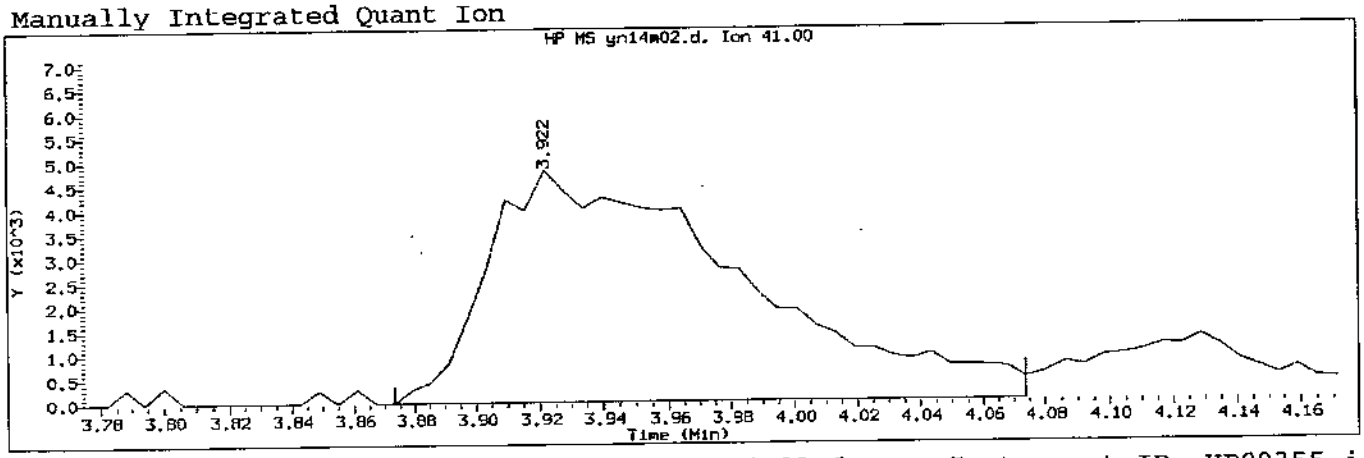
PCH89 6275

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30:
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

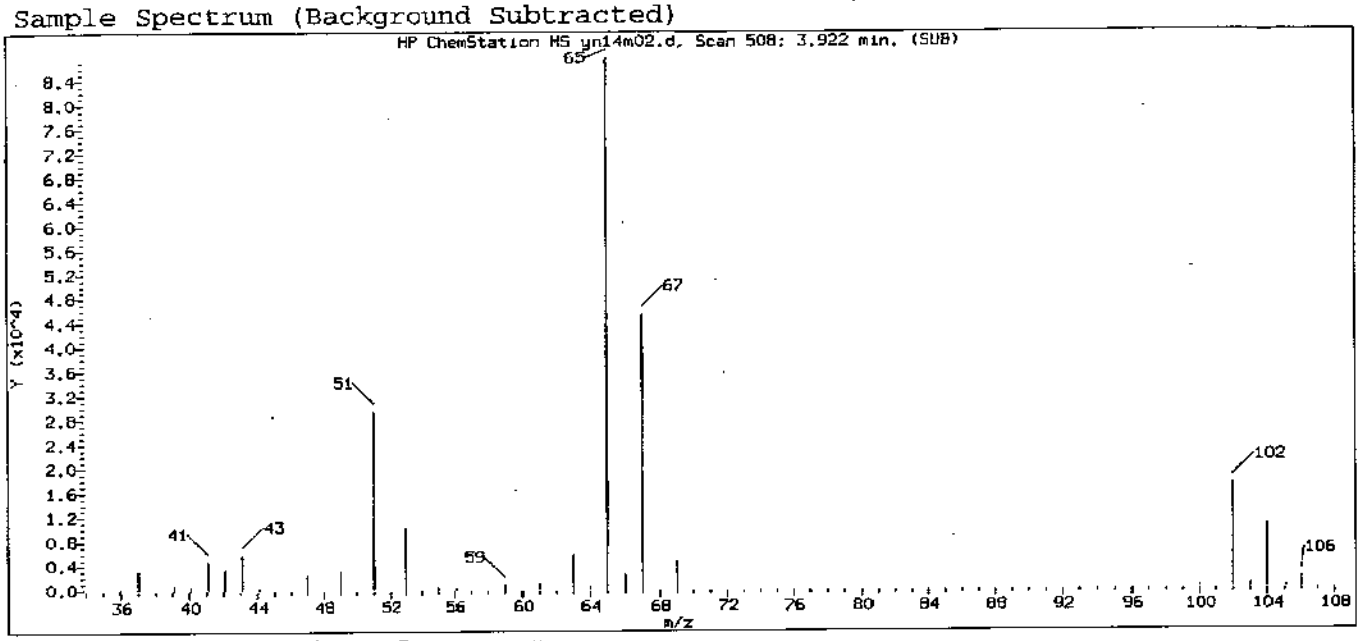
Compound Number	: 59		
Compound Name	: Isobutyl Alcohol		
Scan Number	: 508		
Retention Time (minutes)	: 3.922		
Quant Ion	: 41.00		
Area (flag)	: 26939M		
On-Column Amount (ng)	: 49.9805		
Integration start scan	: 499	Integration stop scan:	532
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

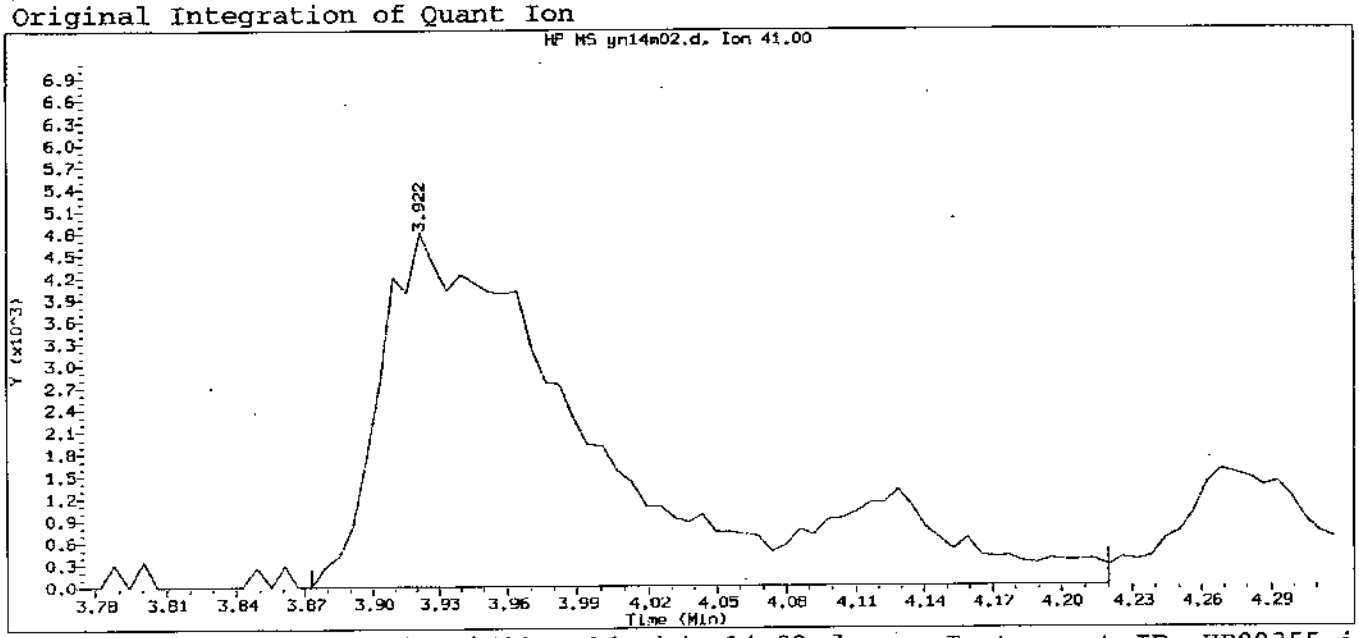
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 8276

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

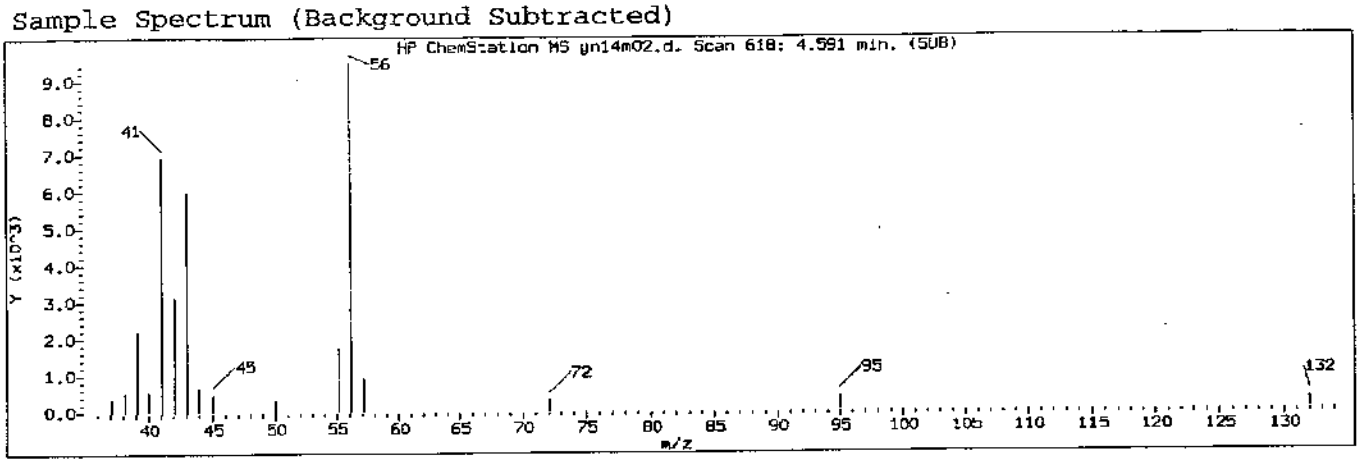
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 59		
Compound Name	: Isobutyl Alcohol		
Scan Number	: 508		
Retention Time (minutes)	: 3.922		
Quant Ion	: 41.00		
Area	: 32557		
On-column Amount (ng)	: 60.4044		
Integration start scan	: 499	Integration stop scan:	556
Y at integration start	: 0	Y at integration end:	0

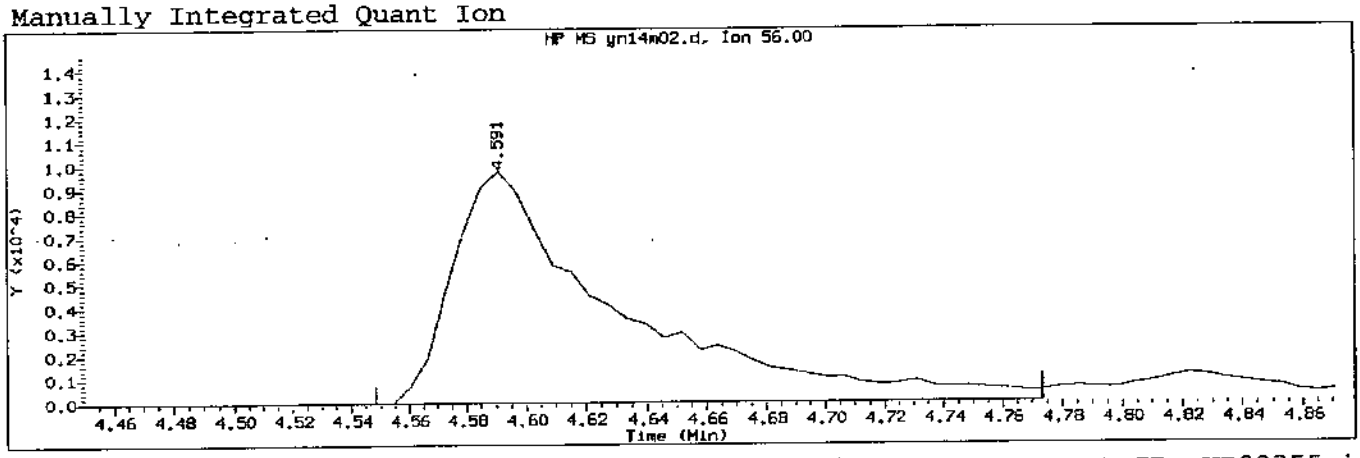
PCH09 6277

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

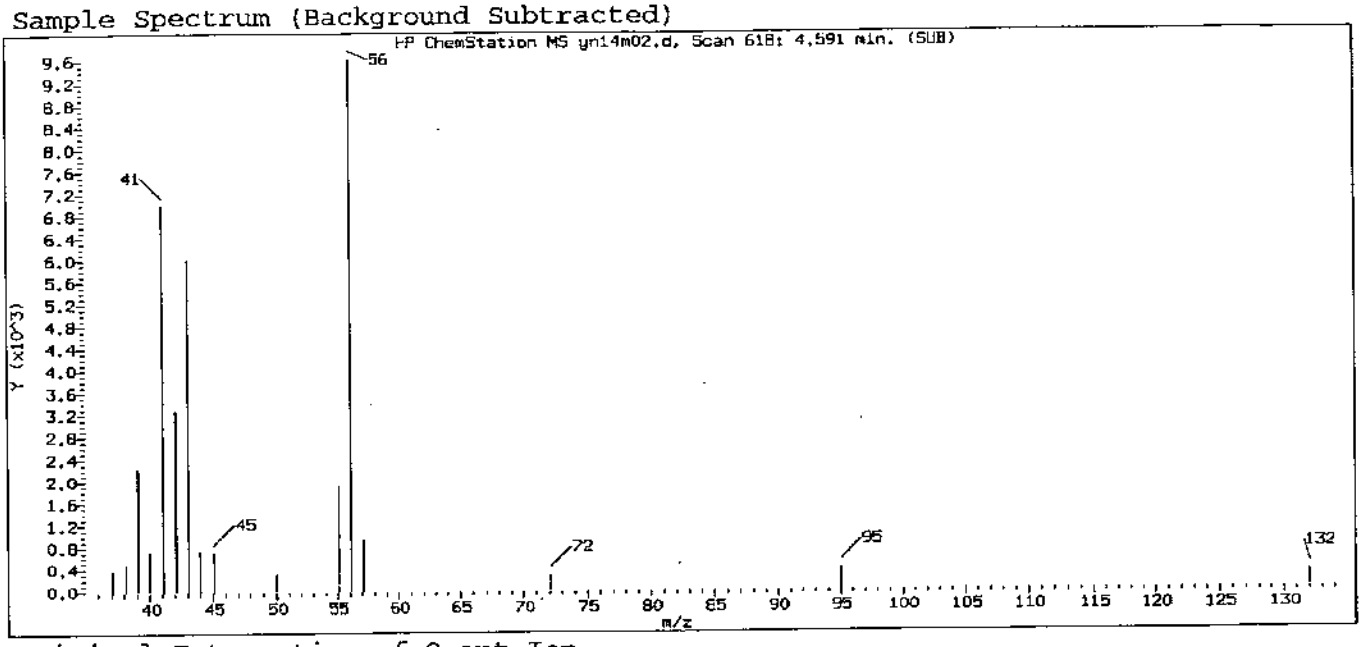
Compound Number	: 73		
Compound Name	: n-Butanol		
Scan Number	: 618		
Retention Time (minutes)	: 4.591		
Quant Ion	: 56.00		
Area (flag)	: 37804M		
On-Column Amount (ng)	: 84.0323		
Integration start scan	: 610	Integration stop scan:	647
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

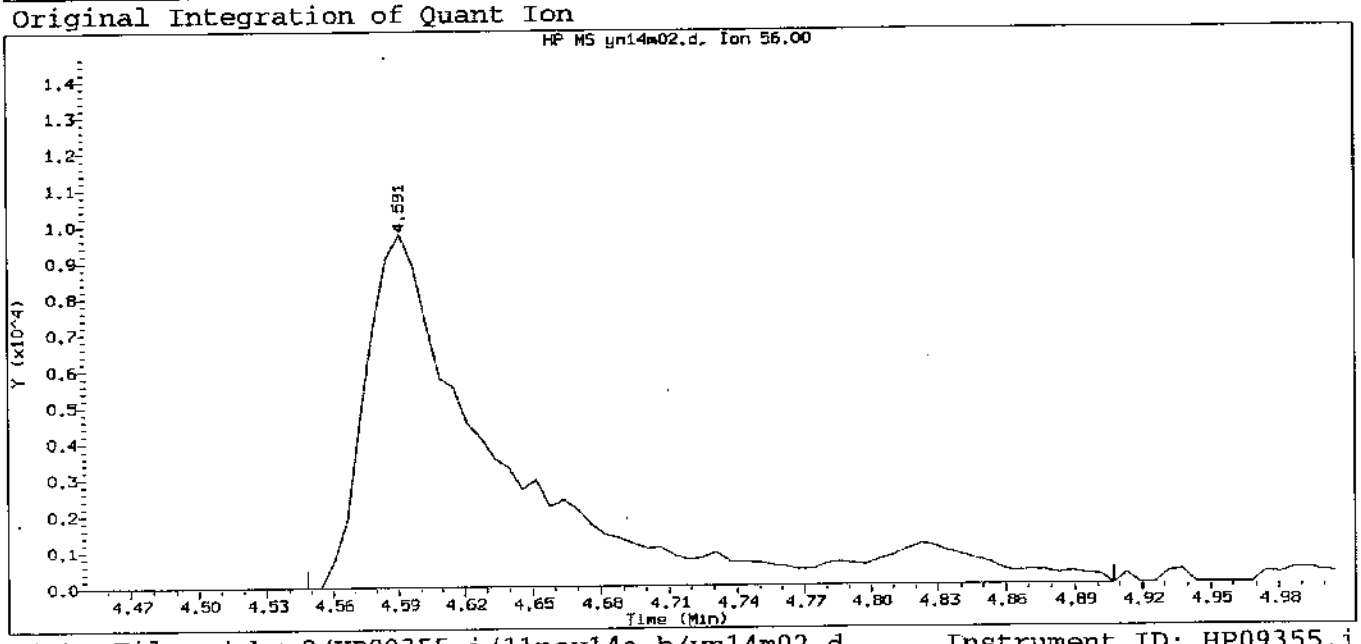
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 8270

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

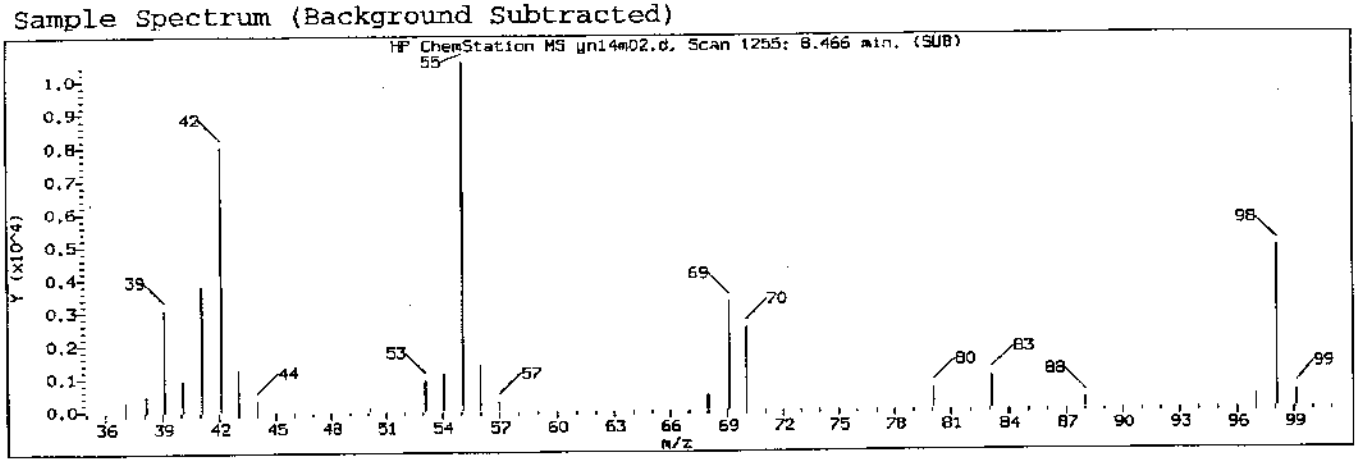
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 73		
Compound Name	: n-Butanol		
Scan Number	: 618		
Retention Time (minutes)	: 4.591		
Quant Ion	: 56.00		
Area	: 42516		
On-column Amount (ng)	: 94.5067		
Integration start scan	: 610	Integration stop scan:	669
Y at integration start	: 0	Y at integration end:	0

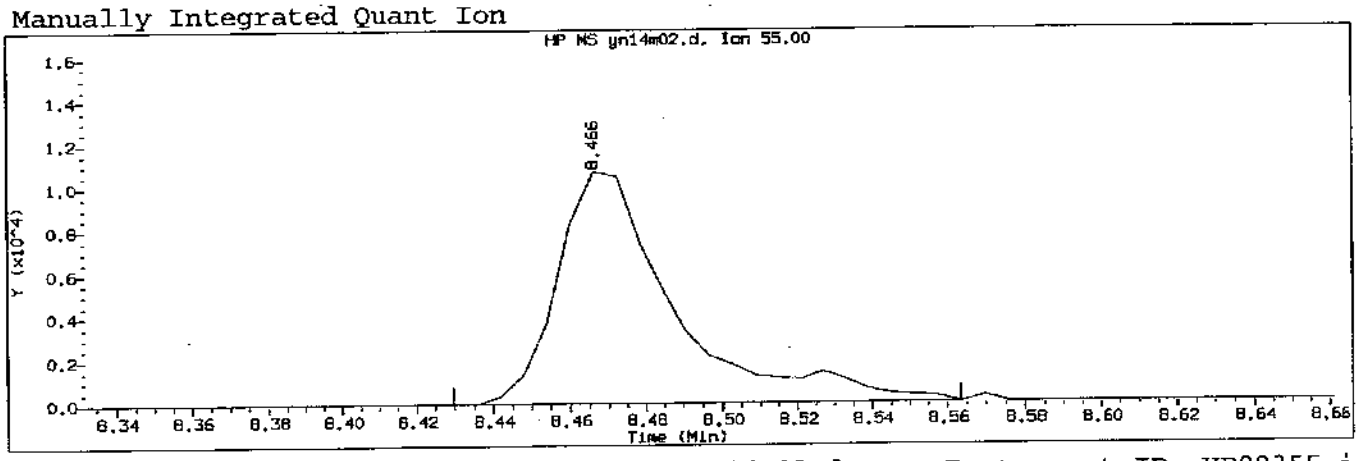
PCH89 E279

Digitally signed by Frank A. Valia Jr. on 11/14/2011 at 20:30:
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

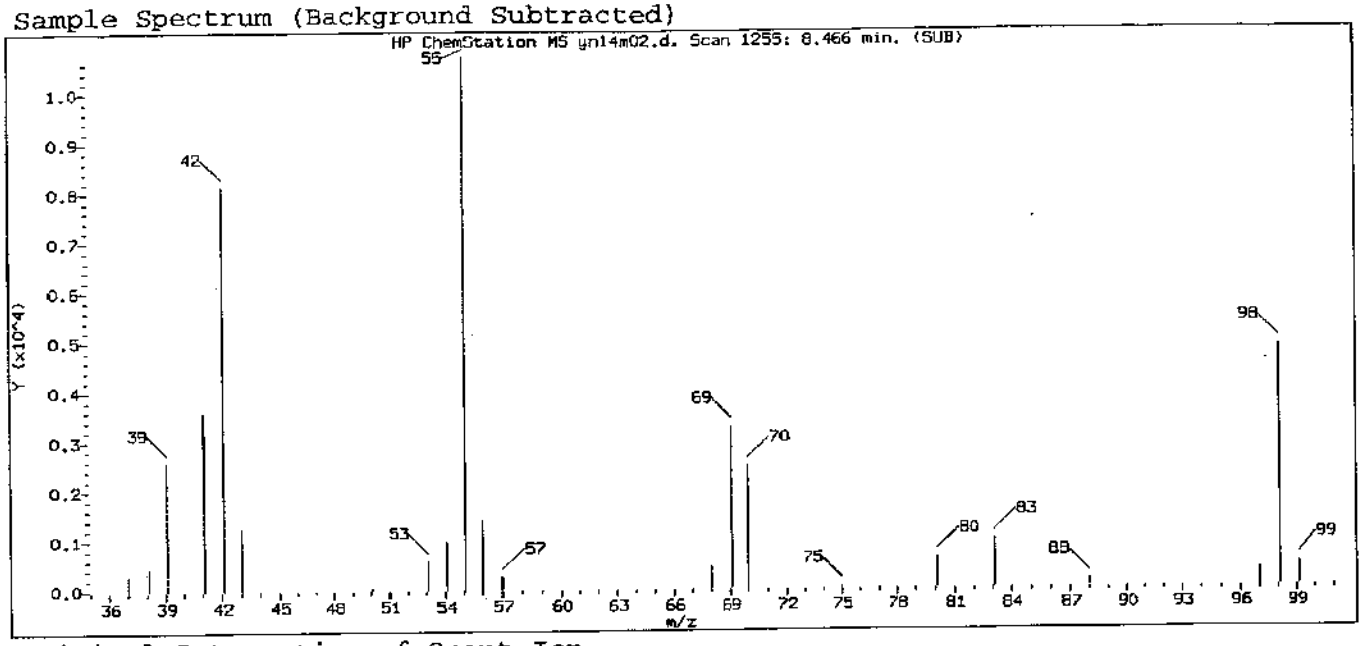
Compound Number	: 118		
Compound Name	: Cyclohexanone		
Scan Number	: 1255		
Retention Time (minutes)	: 8.466		
Quant Ion	: 55.00		
Area (flag)	: 22853M		
On-Column Amount (ng)	: 44.1414		
Integration start scan	: 1248	Integration stop scan:	1270
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

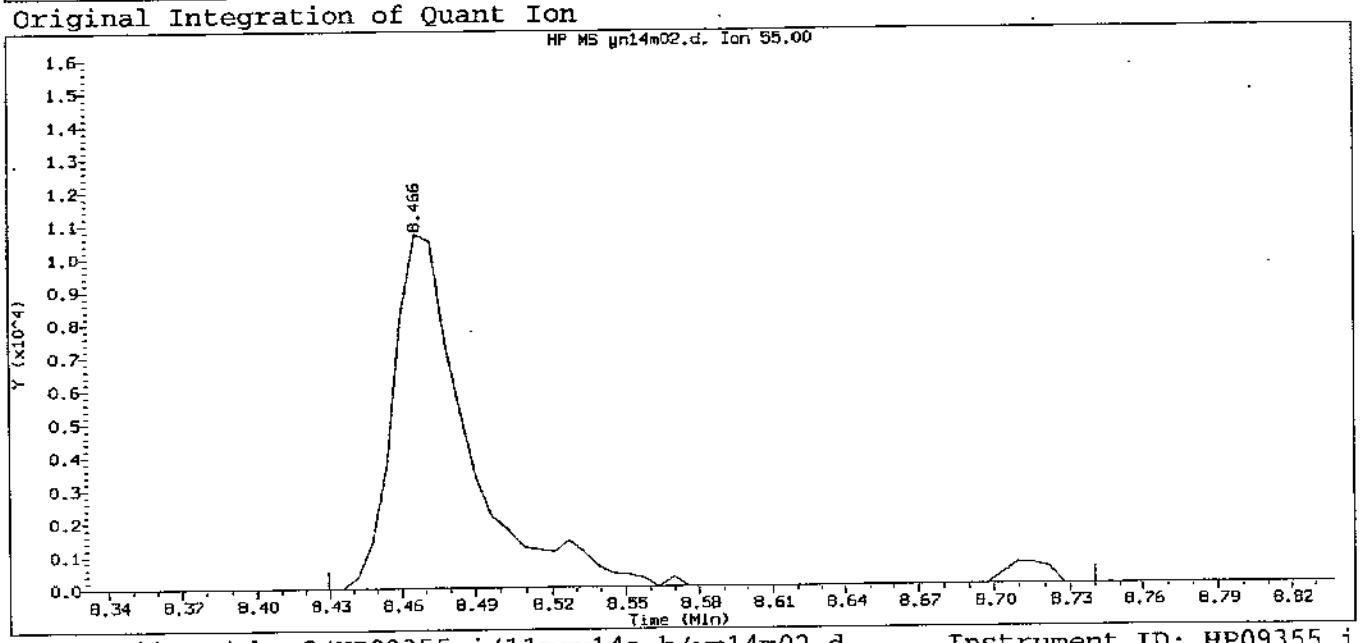
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30:
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 0286

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

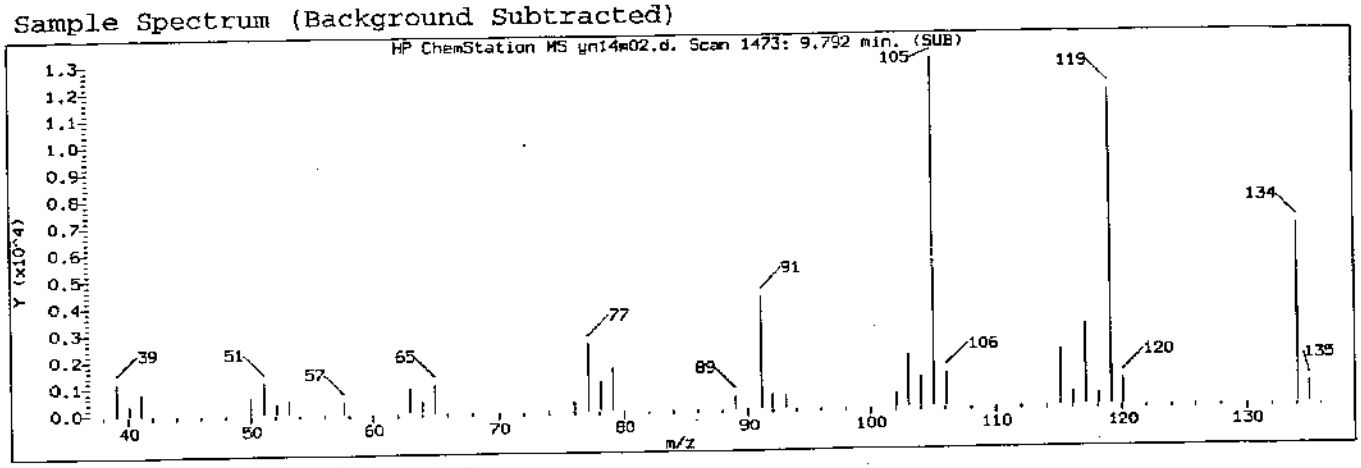
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 118		
Compound Name	: Cyclohexanone		
Scan Number	: 1255		
Retention Time (minutes)	: 8.466		
Quant Ion	: 55.00		
Area	: 23731		
On-column Amount (ng)	: 39.5068		
Integration start scan	: 1248	Integration stop scan:	1299
Y at integration start	: 0	Y at integration end:	0

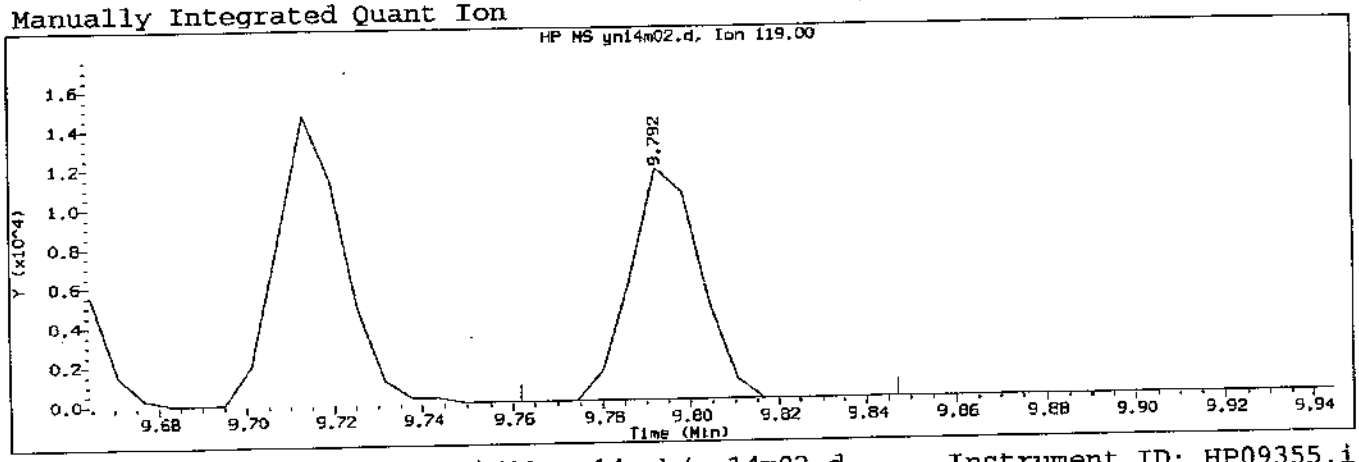
PCH09 0281

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

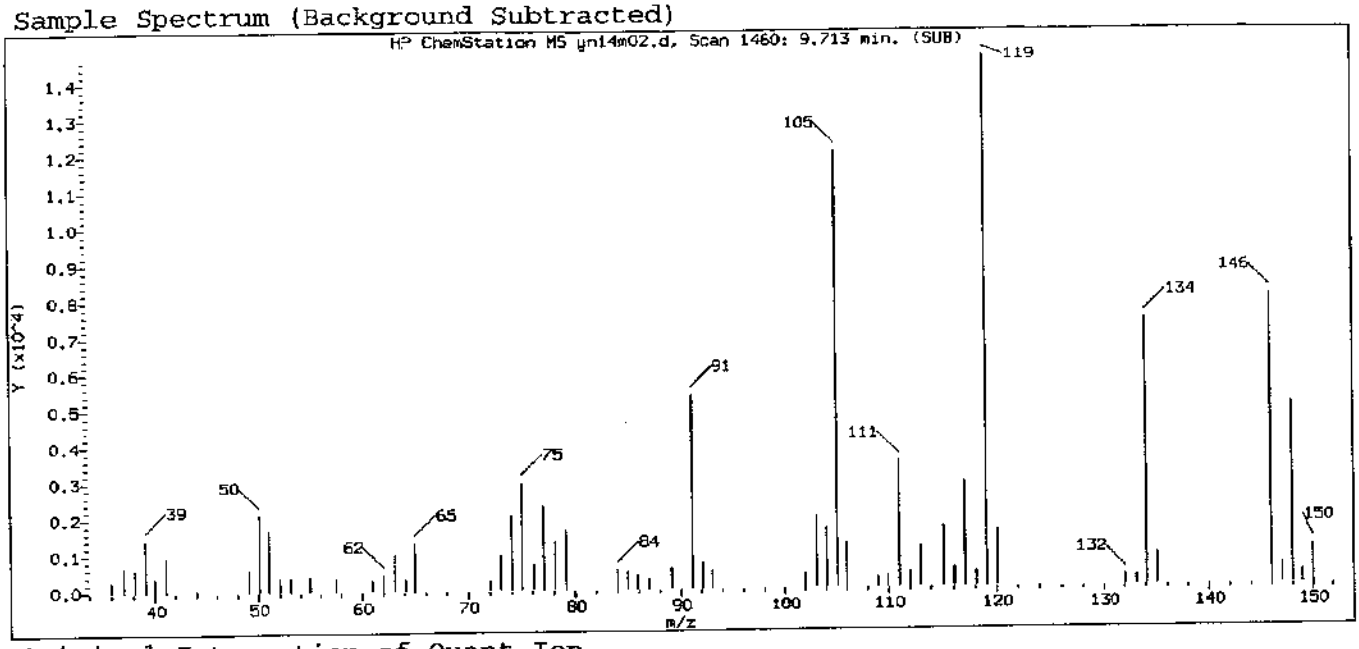
Compound Number	: 146		
Compound Name	: 1,2-Diethylbenzene		
Scan Number	: 1473		
Retention Time (minutes)	: 9.792		
Quant Ion	: 119.00		
Area (flag)	: 13108M		
On-Column Amount (ng)	: 0.8951		
Integration start scan	: 1467	Integration stop scan:	1481
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

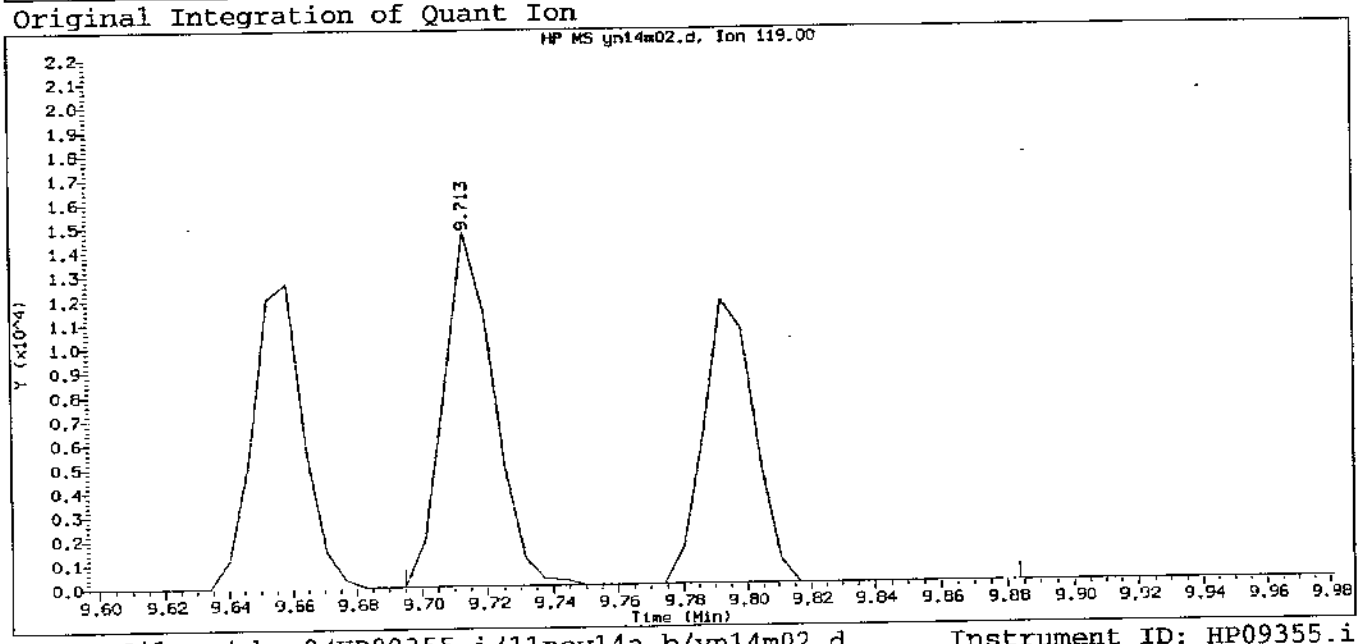
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH05 0282

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14m02.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 16:52 Analyst ID: NRR01826

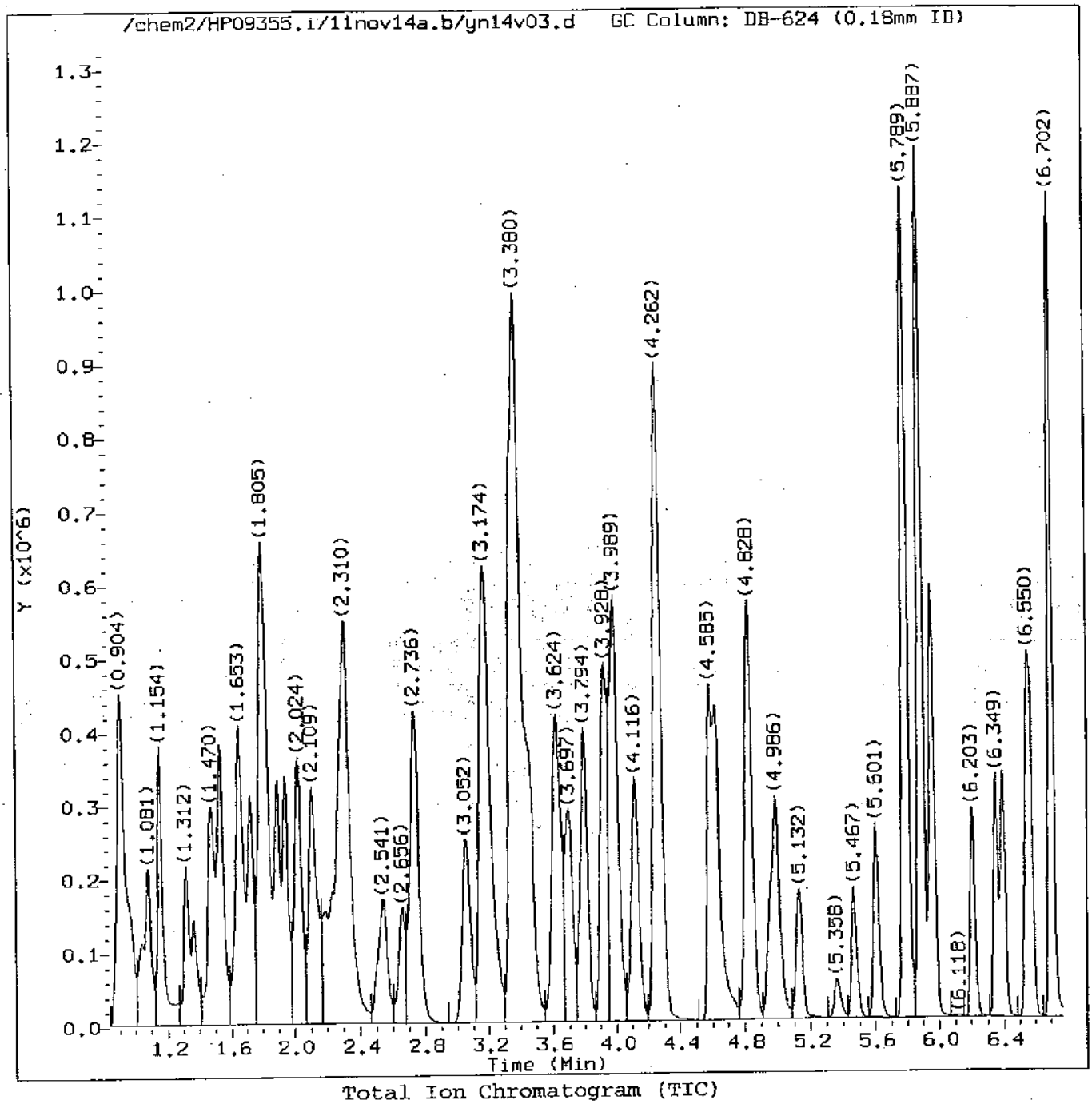
Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 146		
Compound Name	: 1,2-Diethylbenzene		
Scan Number	: 1460		
Retention Time (minutes)	: 9.713		
Quant Ion	: 119.00		
Area	: 28745		
On-column Amount (ng)	: 1.9630		
Integration start scan	: 1456	Integration stop scan:	1487
Y at integration start	: 0	Y at integration end:	0

PCB69 8283

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d
Injection date and time: 14-NOV-2011 17:13

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 18:10

Sublist used: 8260W

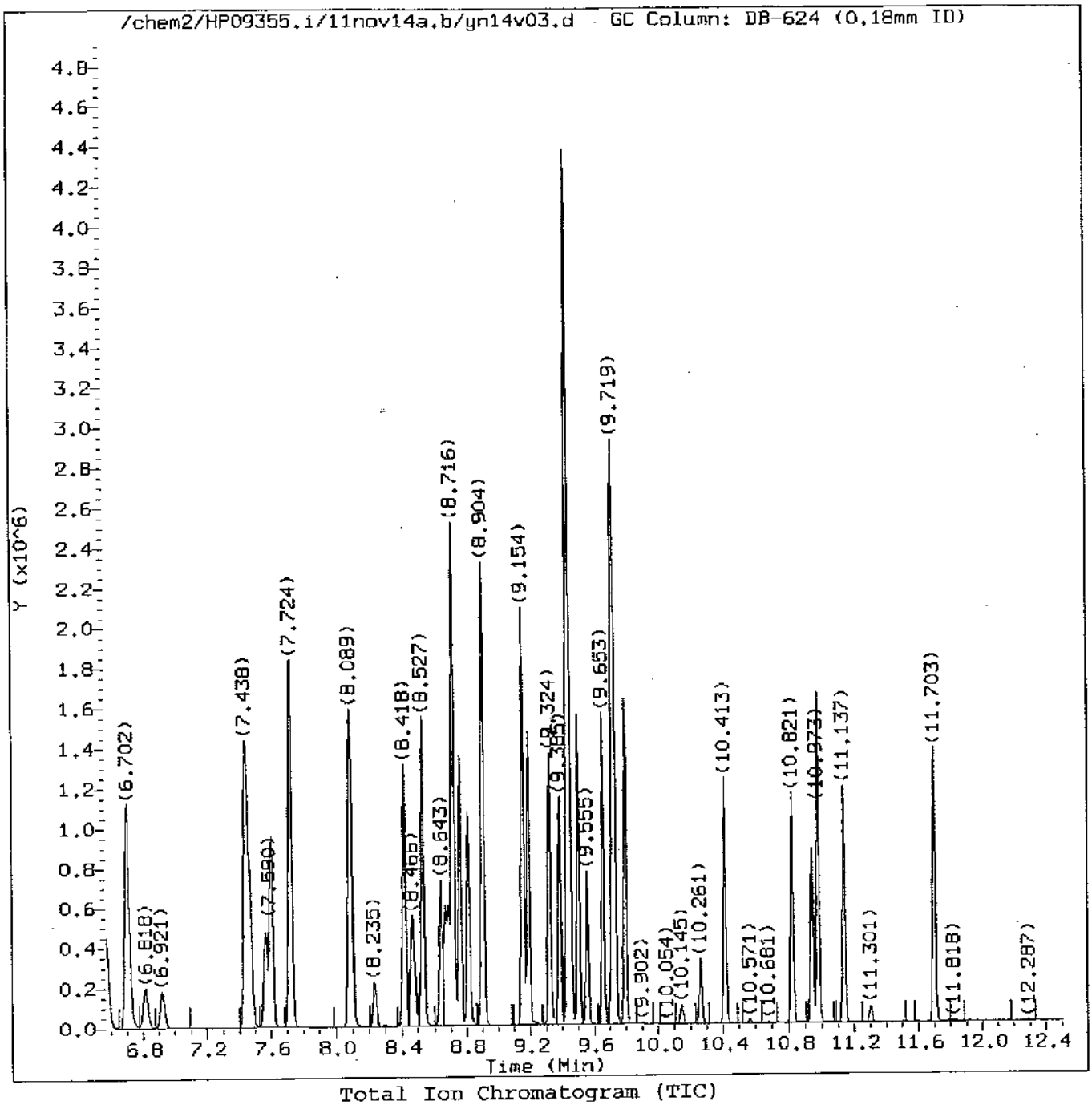
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV

Lab Sample ID: YLGICV

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 8264



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d
Injection date and time: 14-NOV-2011 17:13

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 18:10

Sublist used: 8260W

Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV

Lab Sample ID: YLGICV

Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 0285

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d
Injection date and time: 14-NOV-2011 17:13

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 18:10

Sublist used: 8260W

Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV

Lab Sample ID: YLGICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.038	85	199665	17.985
3) Chloromethane	(1)	1.081	50	203618M	20.002
5) Vinyl Chloride	(1)	1.154	62	209233	20.338
4) 1,3-Butadiene	(1)	1.154	39	90770M	16.717
7) Bromomethane	(1)	1.312	94	151763	19.443
8) Chloroethane	(1)	1.361	64	110874	18.844
9) Dichlorofluoromethane	(1)	1.470	67	282836	18.718
11) n-Pentane	(1)	1.531	43	182348	18.259
10) Trichlorofluoromethane	(1)	1.537	101	307459M	21.160
13) Ethyl Ether	(1)	1.647	59	152177	24.330
14) Freon 123a	(1)	1.653	67	195645	20.960
15) Acrolein	(4)	1.726	56	397723	135.083
16) 1,1-Dichloroethene	(1)	1.793	96	169643	23.166
18) Freon 113	(1)	1.817	101	167964	21.852
17) Acetone	(1)	1.817	58	229240	138.155
20) Methyl Iodide	(1)	1.896	142	339254	22.750
21) 2-Propanol	(4)	1.902	45	192826M	168.468
22) Carbon Disulfide	(1)	1.945	76	448230	21.582
24) Allyl Chloride	(1)	2.018	41	229809	22.255
25) Methyl Acetate	(1)	2.030	43	238332	23.966
26) Methylene Chloride	(1)	2.109	84	138714	22.172
28) *t-Butyl Alcohol-d10	(4)	2.133	65	367484	250.000
29) t-Butyl Alcohol	(4)	2.194	59	324697M	199.306
30) Acrylonitrile	(1)	2.285	53	393654M	87.832
31) trans-1,2-Dichloroethene	(1)	2.316	96	130763	21.763
32) Methyl Tertiary Butyl Ether	(1)	2.322	73	403087	20.669
33) n-Hexane	(1)	2.541	57	167905	20.258
34) 1,1-Dichloroethane	(1)	2.656	63	227012	21.560
36) di-Isopropyl Ether	(1)	2.736	45	390367	20.600
37) 2-Chloro-1,3-Butadiene	(1)	2.742	53	203143	21.609
39) Ethyl t-Butyl Ether	(1)	3.058	59	386939	20.678
41) 2-Butanone	(1)	3.155	43	865095	139.610
40) cis-1,2-Dichloroethene	(1)	3.174	96	139808	21.339
42) 2,2-Dichloropropane	(1)	3.180	77	183204	20.828
43) Propionitrile	(4)	3.198	54	272715	153.692
46) Methacrylonitrile	(1)	3.374	67	638756	152.257
47) Bromochloromethane	(1)	3.386	128	75073	21.297
48) Tetrahydrofuran	(4)	3.435	71	161454M	96.383

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

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Target 3.5 esignature user ID: fav02618

PCH09 6206

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d
Injection date and time: 14-NOV-2011 17:13

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 18:10

Sublist used: 8260W

Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV

Lab Sample ID: YLGICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Chloroform	(1)	3.466	83	223943	21.263
52)$Dibromofluoromethane	(1)	3.618	113	261258	49.823
45) 1,2-Dichloroethene (total)	(1)		96	270571	43.102
53) 1,1,1-Trichloroethane	(1)	3.642	97	228046	21.350
56) Cyclohexane	(1)	3.697	56	206158	20.571
57) 1,1-Dichloropropene	(1)	3.794	75	175757	21.248
58) Carbon Tetrachloride	(1)	3.800	117	170837	20.426
59) Isobutyl Alcohol	(4)	3.916	41	272293M	512.049
62)$1,2-Dichloroethane-d4	(1)	3.928	102	66728	51.870
63) Benzene	(1)	3.989	78	515331	21.445
65) 1,2-Dichloroethane	(1)	4.001	62	199117	20.939
69) t-Amyl Methyl Ether	(1)	4.116	73	357544	20.148
71)*Fluorobenzene	(1)	4.262	96	1059177	50.000
72) n-Heptane	(1)	4.281	43	169426	18.008
73) n-Butanol	(4)	4.585	56	446477	1005.922
74) Trichloroethene	(1)	4.621	95	137075	21.142
76) Methylcyclohexane	(1)	4.822	83	221389	20.640
77) 1,2-Dichloropropane	(1)	4.840	63	130121	20.753
78) Dibromomethane	(1)	4.956	93	92086	21.021
79) 1,4-Dioxane	(4)	4.980	88	66788	462.152
80) Methyl Methacrylate	(1)	4.986	69	128660	20.048
83) Bromodichloromethane	(1)	5.132	83	152933	20.202
85) 2-Nitropropane	(1)	5.358	41	47227	15.720
86) 2-Chloroethyl Vinyl Ether	(1)	5.461	63	101157	20.745
87) cis-1,3-Dichloropropene	(1)	5.601	75	188376	20.389
89) 4-Methyl-2-Pentanone	(1)	5.789	43	1131759	96.181
93)$Toluene-d8	(2)	5.887	98	1061329	50.267
94) Toluene	(2)	5.954	92	330129	20.937
95) trans-1,3-Dichloropropene	(2)	6.203	75	174674	19.831
96) Ethyl Methacrylate	(2)	6.349	69	198963	20.227
97) 1,1,2-Trichloroethane	(2)	6.392	97	125137	20.673
98) Tetrachloroethene	(2)	6.544	166	161412	20.715
99) 1,3-Dichloropropane	(2)	6.568	76	209902	20.635
101) 2-Hexanone	(2)	6.702	43	878284	94.979
102) Dibromochloromethane	(2)	6.818	129	120856	20.237
104) 1,2-Dibromoethane	(2)	6.921	107	137123	20.677
106)*Chlorobenzene-d5	(2)	7.438	117	800409	50.000
107) Chlorobenzene	(2)	7.469	112	382385	20.740

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: fav02618

PCH09 02287

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d
Injection date and time: 14-NOV-2011 17:13

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 18:10

Sublist used: 8260W

Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV

Lab Sample ID: YLGICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
108) 1,1,1,2-Tetrachloroethane	(2)	7.566	131	125213	20.085
109) Ethylbenzene	(2)	7.602	91	641973	20.746
110) m+p-Xylene	(2)	7.724	106	524616	40.229
113) o-Xylene	(2)	8.083	106	260467	20.007
114) Styrene	(2)	8.095	104	422037	19.878
112) Xylene (Total)	(2)		106	785083	60.236
115) Bromoform	(2)	8.235	173	88389	18.956
116) Isopropylbenzene	(2)	8.418	105	679835	20.874
118) Cyclohexanone	(4)	8.466	55	229356	449.024
119)$4-Bromofluorobenzene	(2)	8.527	95	399970	50.141
121) Bromobenzene	(3)	8.643	156	180140	21.427
122) 1,1,2,2-Tetrachloroethane	(3)	8.667	83	208030	20.932
123) 1,2,3-Trichloropropane	(3)	8.691	110	70133	20.761
124) trans-1,4-Dichloro-2-Butene	(3)	8.716	53	378061	104.868
125) n-Propylbenzene	(3)	8.758	91	778961	22.082
126) 2-Chlorotoluene	(3)	8.807	126	167085	21.418
128) 4-Chlorotoluene	(3)	8.898	126	177904	20.925
127) 1,3,5-Trimethylbenzene	(3)	8.904	105	593913	21.472
131) Pentachloroethane	(3)	9.154	167	99595	19.675
130) tert-Butylbenzene	(3)	9.154	134	138029	20.573
132) 1,2,4-Trimethylbenzene	(3)	9.190	105	599853	21.709
133) sec-Butylbenzene	(3)	9.324	105	733668	22.044
134) 1,3-Dichlorobenzene	(3)	9.385	146	354593	21.498
135) p-Isopropyltoluene	(3)	9.434	119	688639	21.553
136)*1,4-Dichlorobenzene-d4	(3)	9.440	152	531249	50.000
138) 1,4-Dichlorobenzene	(3)	9.452	146	372751	21.063
139) 1,2,3-Trimethylbenzene	(3)	9.500	105	623476	22.051
141) Benzyl Chloride	(3)	9.555	91	364955	19.722
142) 1,3-Diethylbenzene	(3)	9.653	119	391704	21.565
143) 1,4-Diethylbenzene	(3)	9.713	119	413098	20.640
144) 1,2-Dichlorobenzene	(3)	9.719	146	361480	20.626
145) n-Butylbenzene	(3)	9.732	92	320375	20.520
146) 1,2-Diethylbenzene	(3)	9.792	119	329703	20.947
148) 1,2-Dibromo-3-Chloropropane	(3)	10.261	75	52602	19.899
149) 1,3,5-Trichlorobenzene	(3)	10.413	180	276298	20.597
150) 1,2,4-Trichlorobenzene	(3)	10.821	180	253041	20.369
151) Hexachlorobutadiene	(3)	10.942	225	115308	19.336
152) Naphthalene	(3)	10.979	128	847603	20.069

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

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Target 3.5 esignature user ID: fav02618

FCH09 8288

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d
Injection date and time: 14-NOV-2011 17:13

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sublist used: 8260W

Sample Name: YLGICV

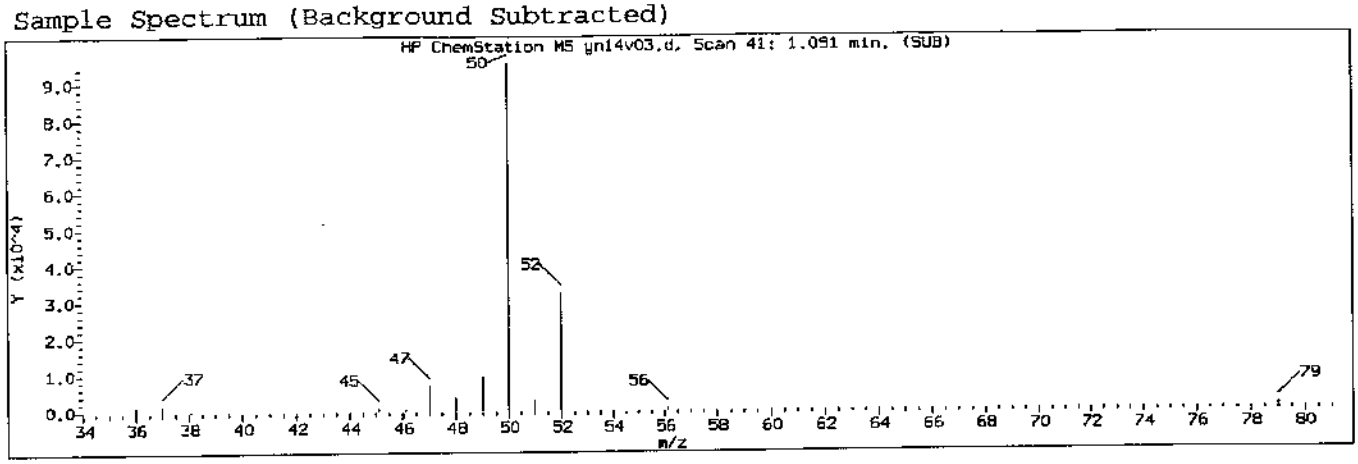
Lab Sample ID: YLGICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
153) 1,2,3-Trichlorobenzene	(3)	11.137	180	247383	20.177
154) 2-Methylnaphthalene	(3)	11.703	142	477514	19.483

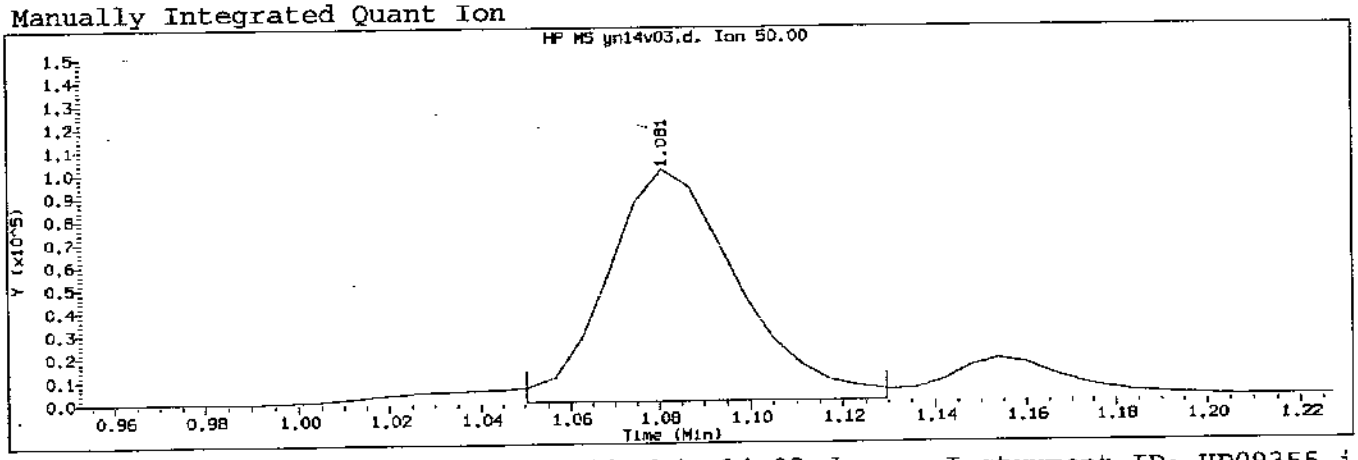
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on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

PCH09 8289

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV Lab Sample ID: YLGICV

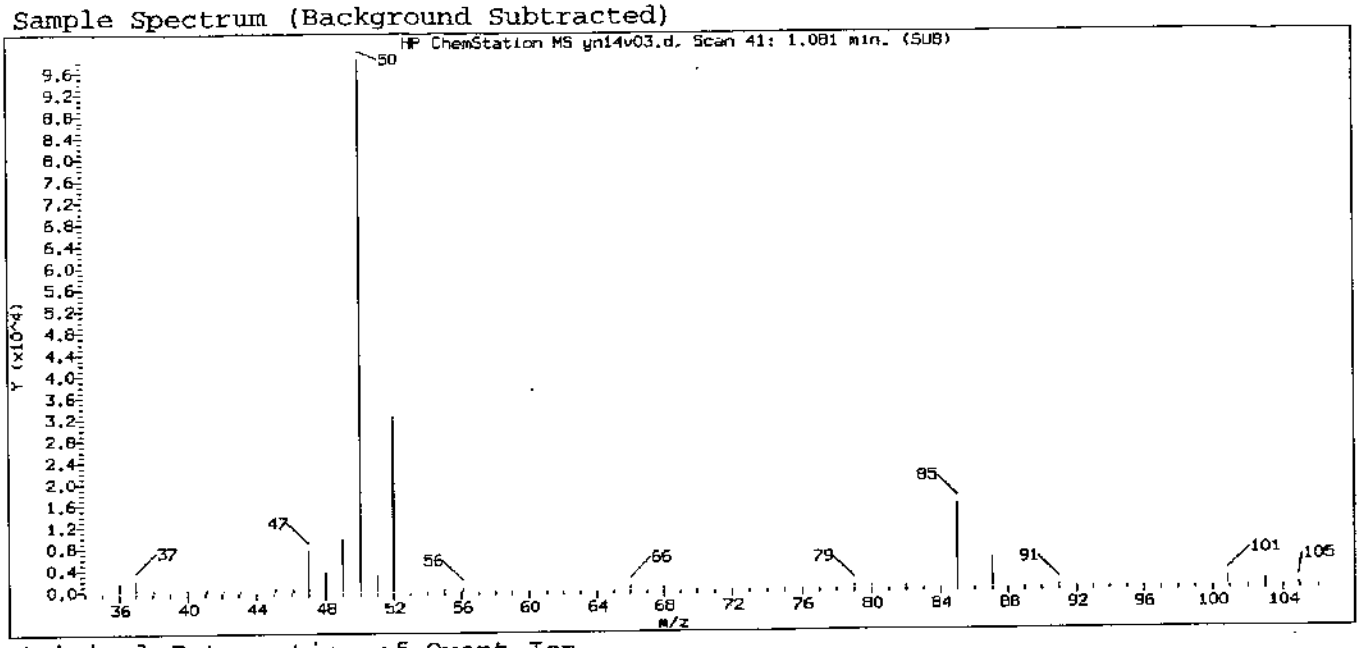
Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 41		
Retention Time (minutes)	: 1.081		
Quant Ion	: 50.00		
Area (flag)	: 203618M		
On-Column Amount (ng)	: 20.0023		
Integration start scan	: 35	Integration stop scan:	48
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

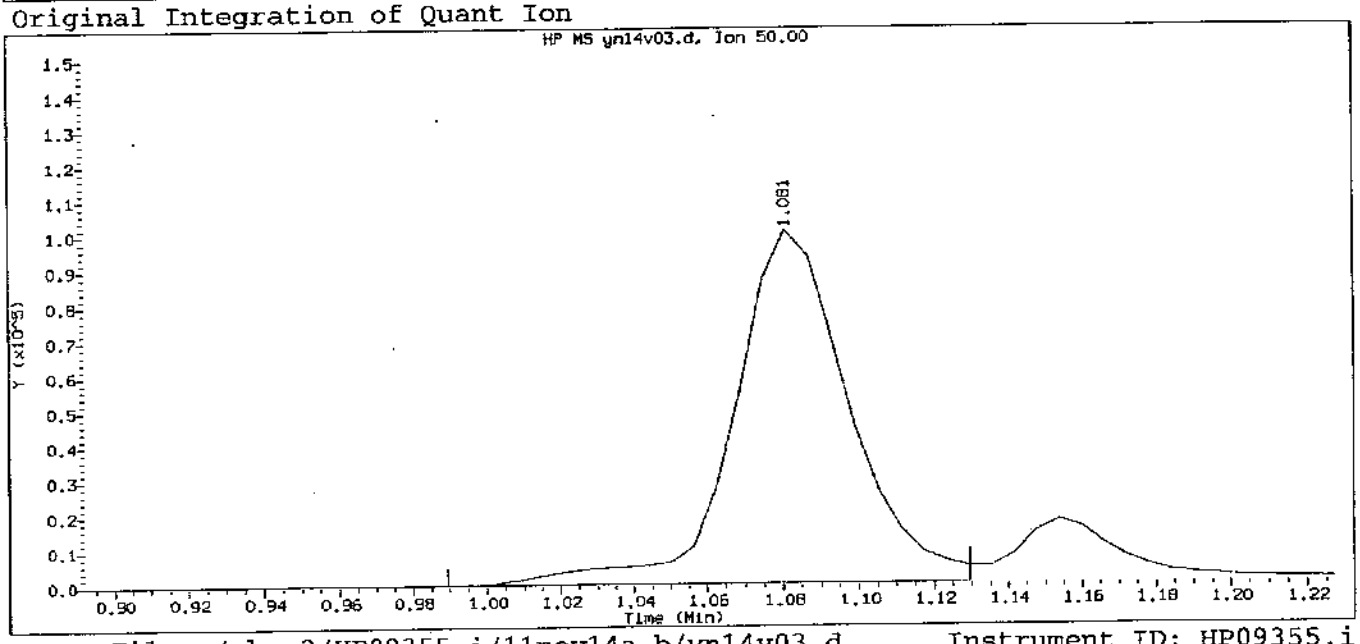
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 0298

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

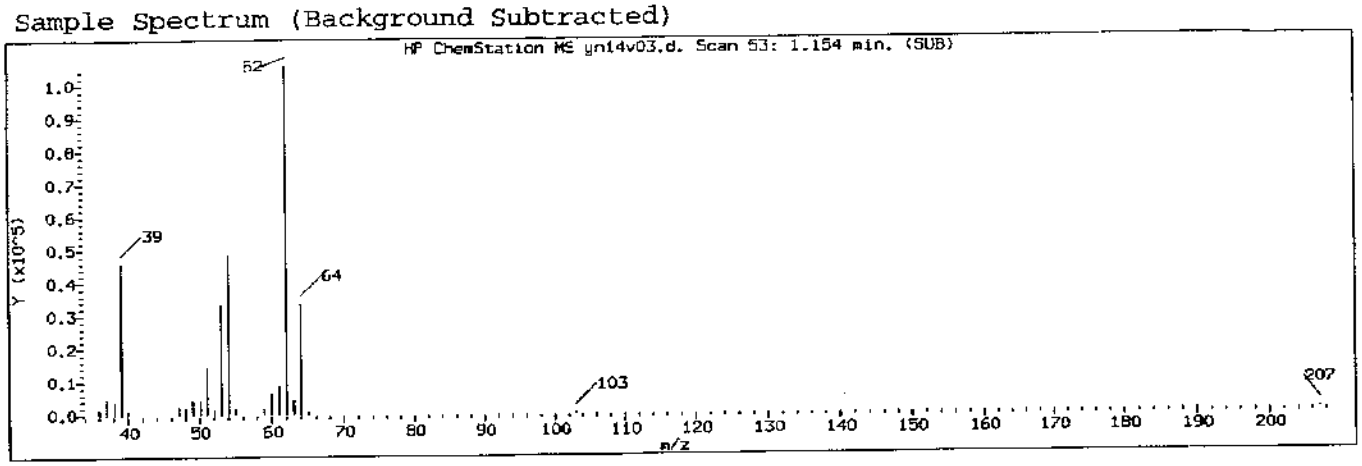
Sample Name: YLGICV Lab Sample ID: YLGICV

Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 41		
Retention Time (minutes)	: 1.081		
Quant Ion	: 50.00		
Area	: 212783		
On-column Amount (ng)	: 20.9027		
Integration start scan	: 25	Integration stop scan:	48
Y at integration start	: 0	Y at integration end:	0

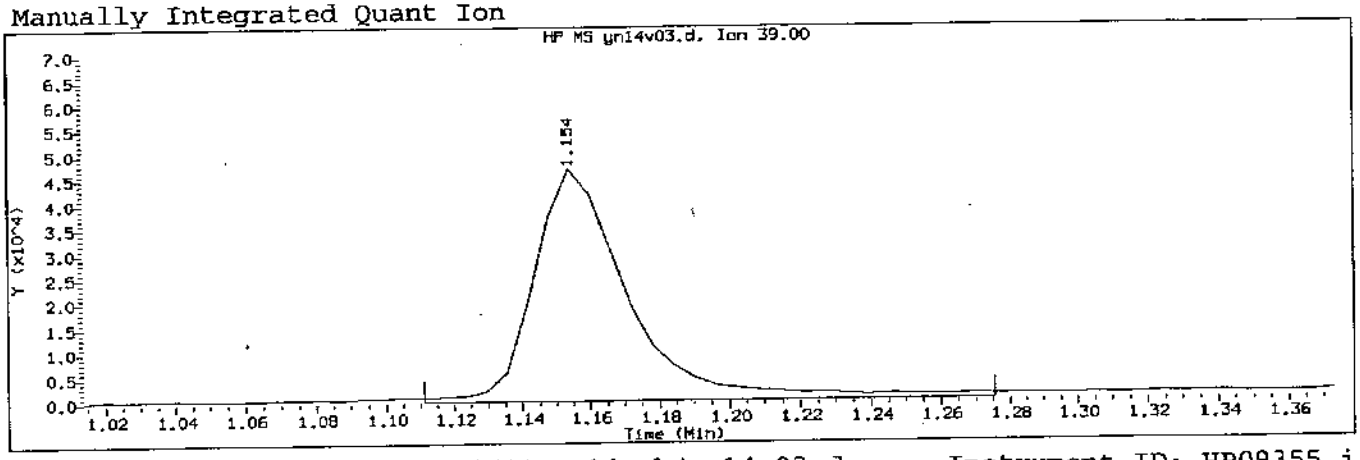
PCH09 8291

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Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV Lab Sample ID: YLGICV

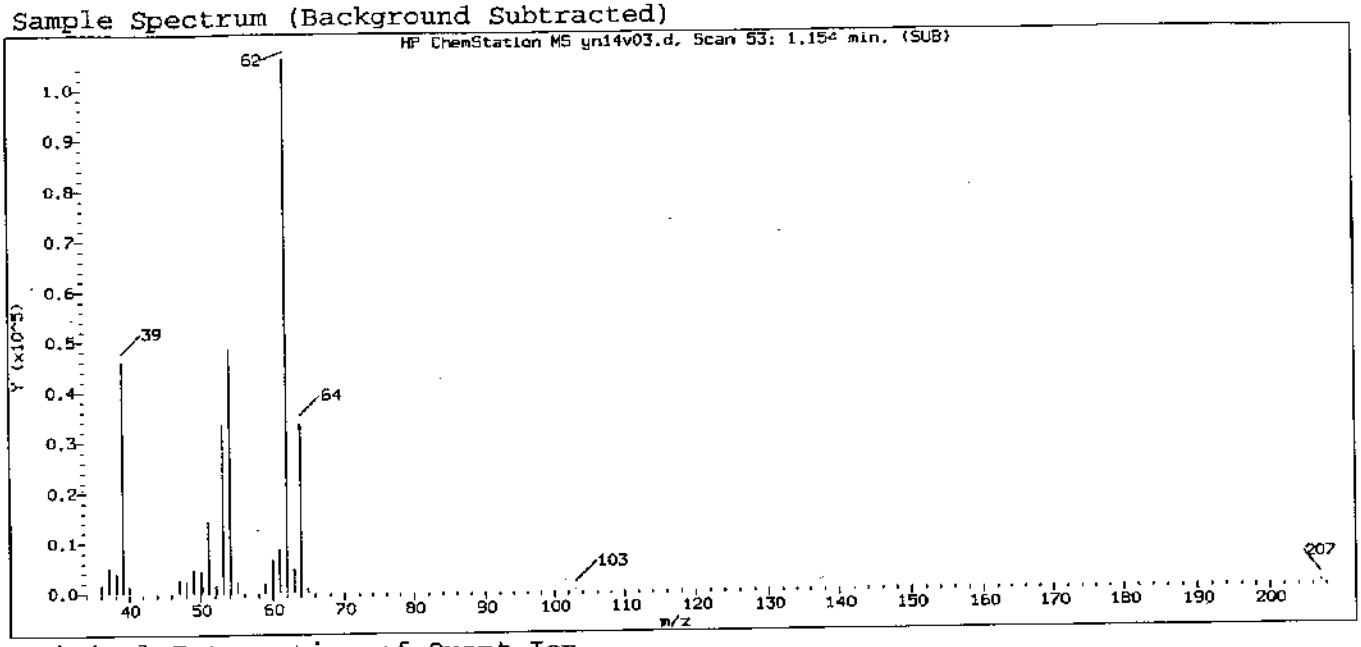
Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 53		
Retention Time (minutes)	: 1.154		
Quant Ion	: 39.00		
Area (flag)	: 90770M		
On-Column Amount (ng)	: 16.7170		
Integration start scan	: 45	Integration stop scan:	72
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

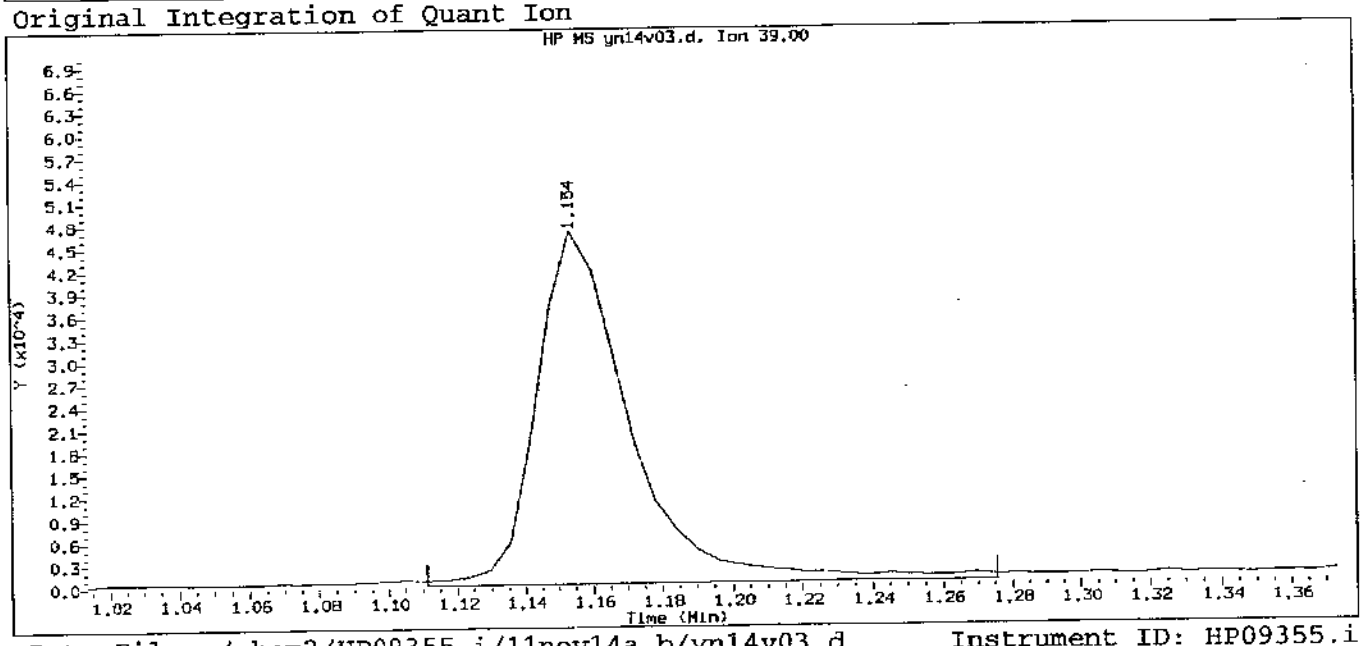
Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30. Target 3.5 esignature user ID: fav02618.

GC/MS audit/management approval: 11/17/11 PCH09 8292

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

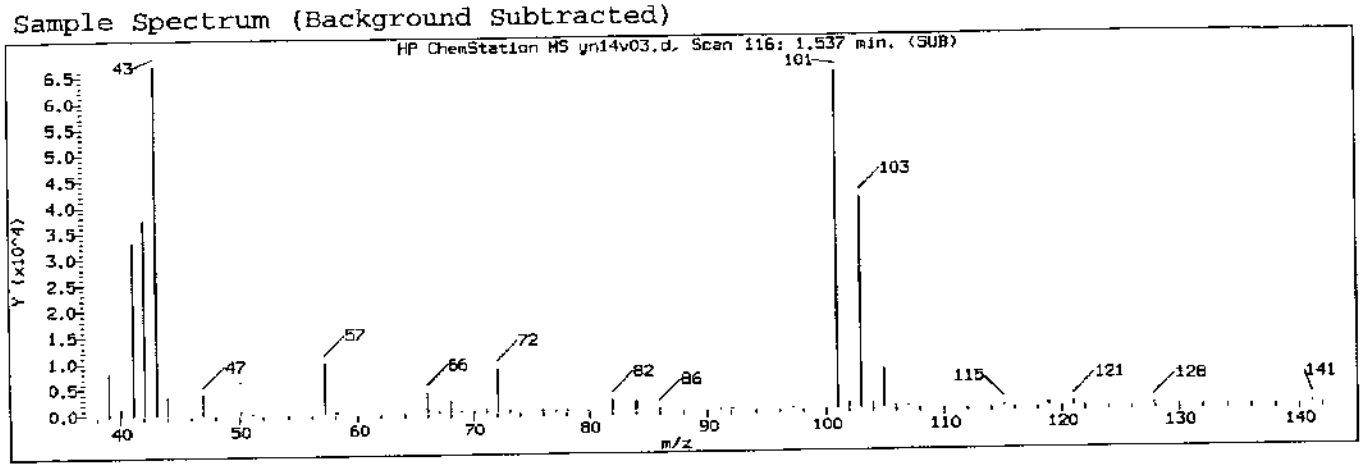
Sample Name: YLGICV Lab Sample ID: YLGICV

Compound Number	: 4		
Compound Name	: 1,3-Butadiene		
Scan Number	: 53		
Retention Time (minutes)	: 1.154		
Quant Ion	: 39.00		
Area	: 88478		
On-column Amount (ng)	: 16.2950		
Integration start scan	: 45	Integration stop scan:	72
Y at integration start	: 164	Y at integration end:	239

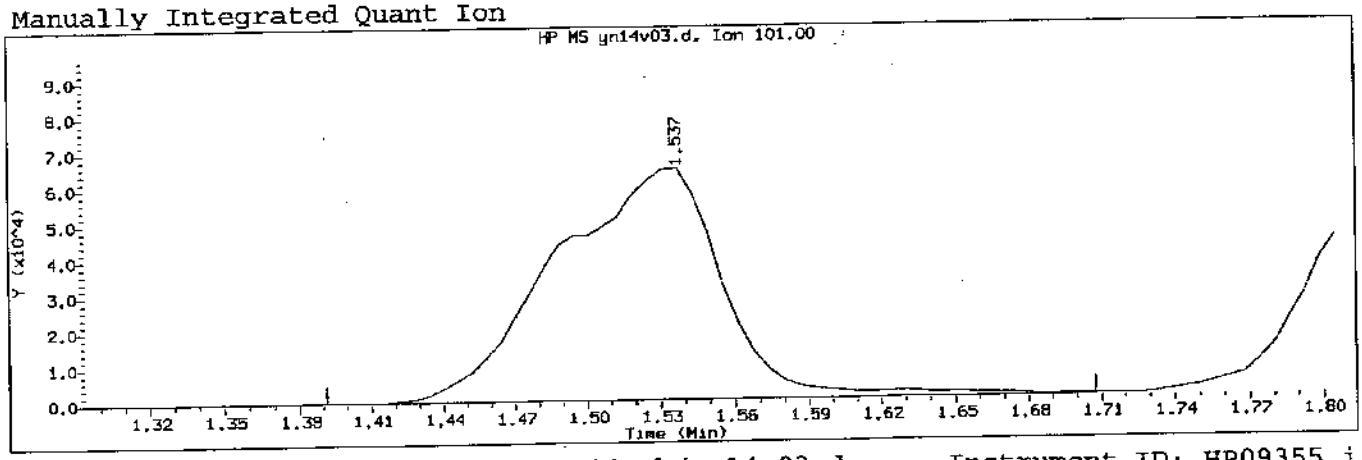
PCH05 8293

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Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV Lab Sample ID: YLGICV

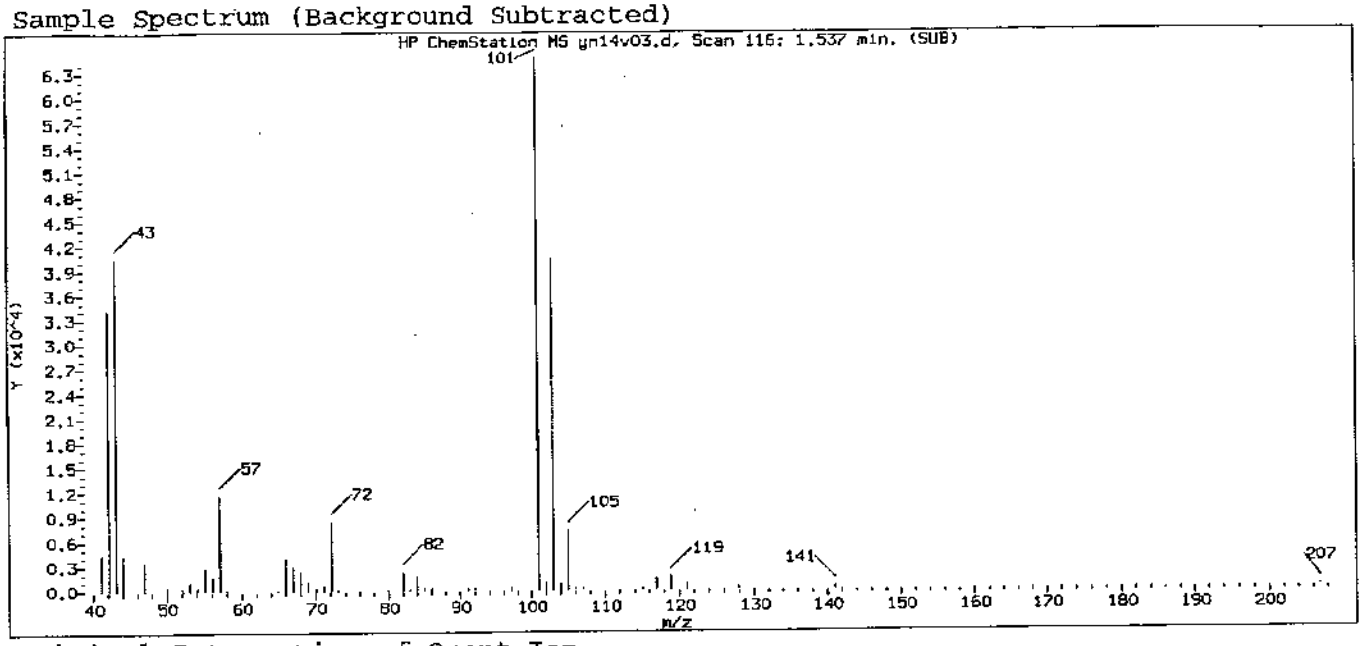
Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 116		
Retention Time (minutes)	: 1.537		
Quant Ion	: 101.00		
Area (flag)	: 307459M		
On-Column Amount (ng)	: 21.1603		
Integration start scan	: 91	Integration stop scan:	143
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

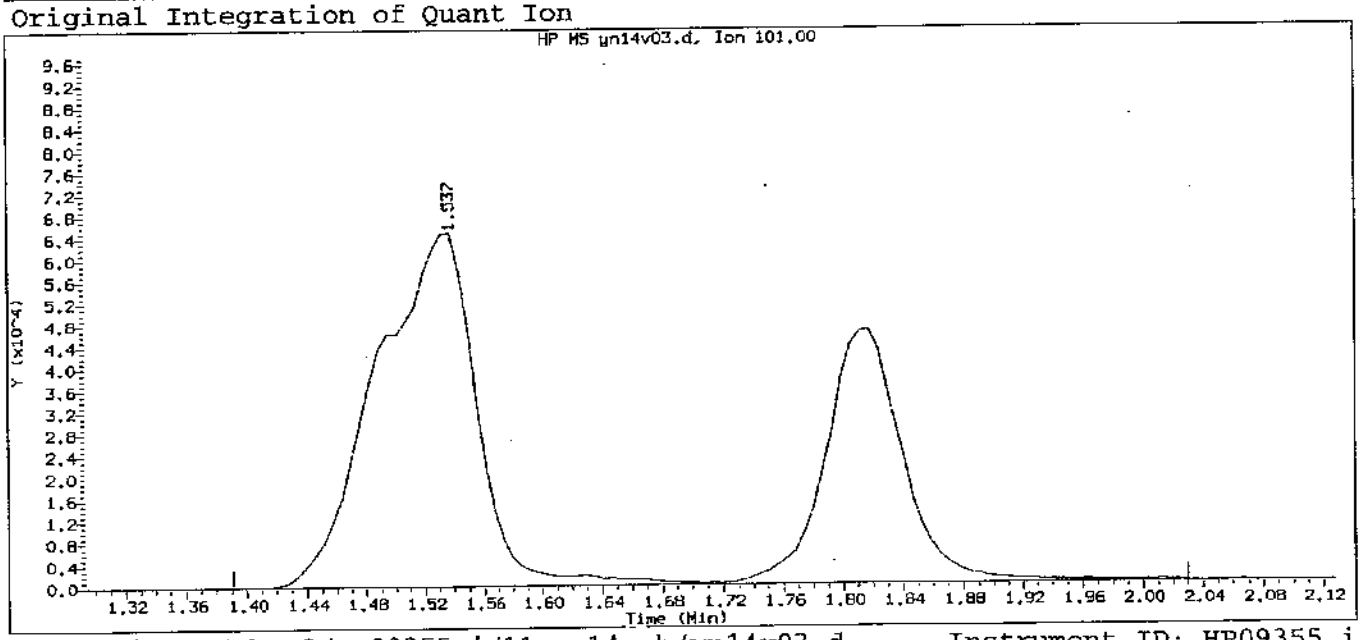
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 8294

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

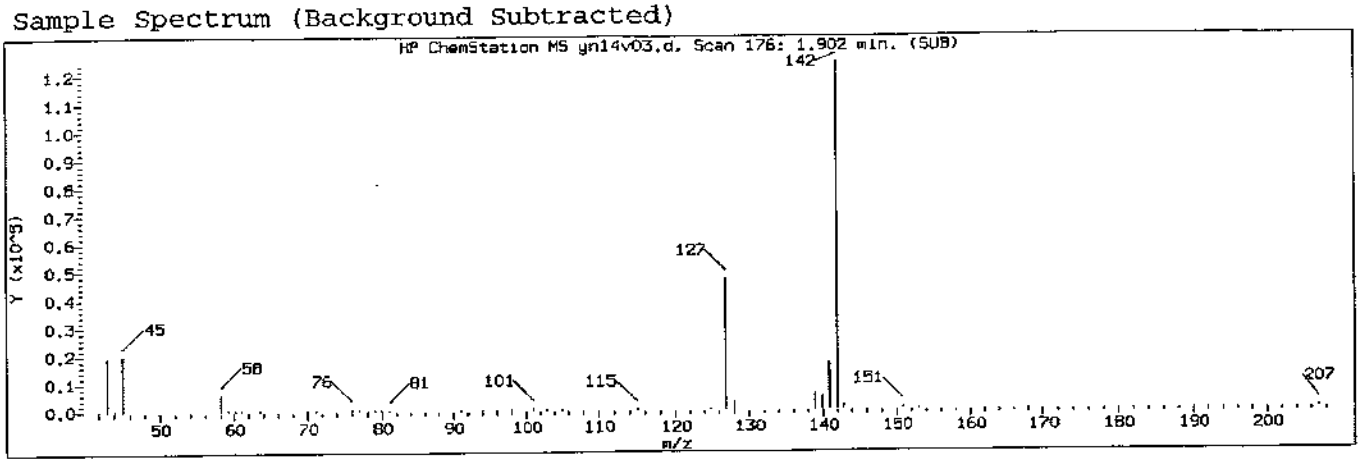
Sample Name: YLGICV Lab Sample ID: YLGICV

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 116		
Retention Time (minutes)	: 1.537		
Quant Ion	: 101.00		
Area	: 475279		
On-column Amount (ng)	: 32.7103		
Integration start scan	: 91	Integration stop scan:	196
Y at integration start	: 0	Y at integration end:	0

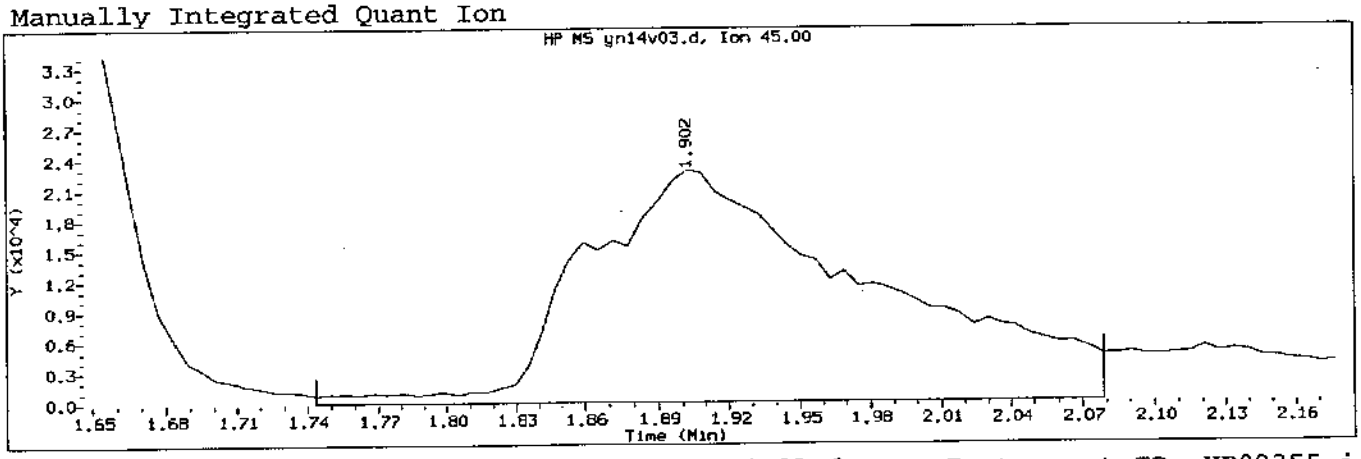
PCH09 6295

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV Lab Sample ID: YLGICV

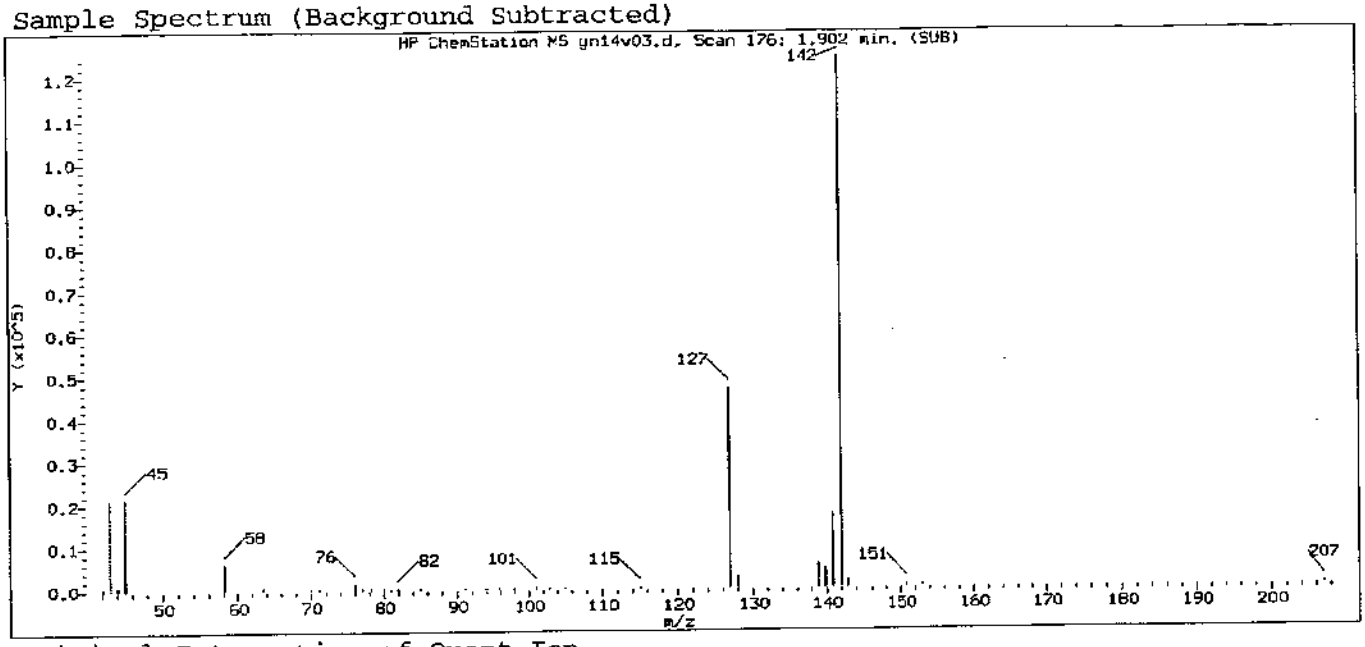
Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 176		
Retention Time (minutes)	: 1.902		
Quant Ion	: 45.00		
Area (flag)	: 192826M		
On-Column Amount (ng)	: 168.4683		
Integration start scan	: 149	Integration stop scan:	204
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

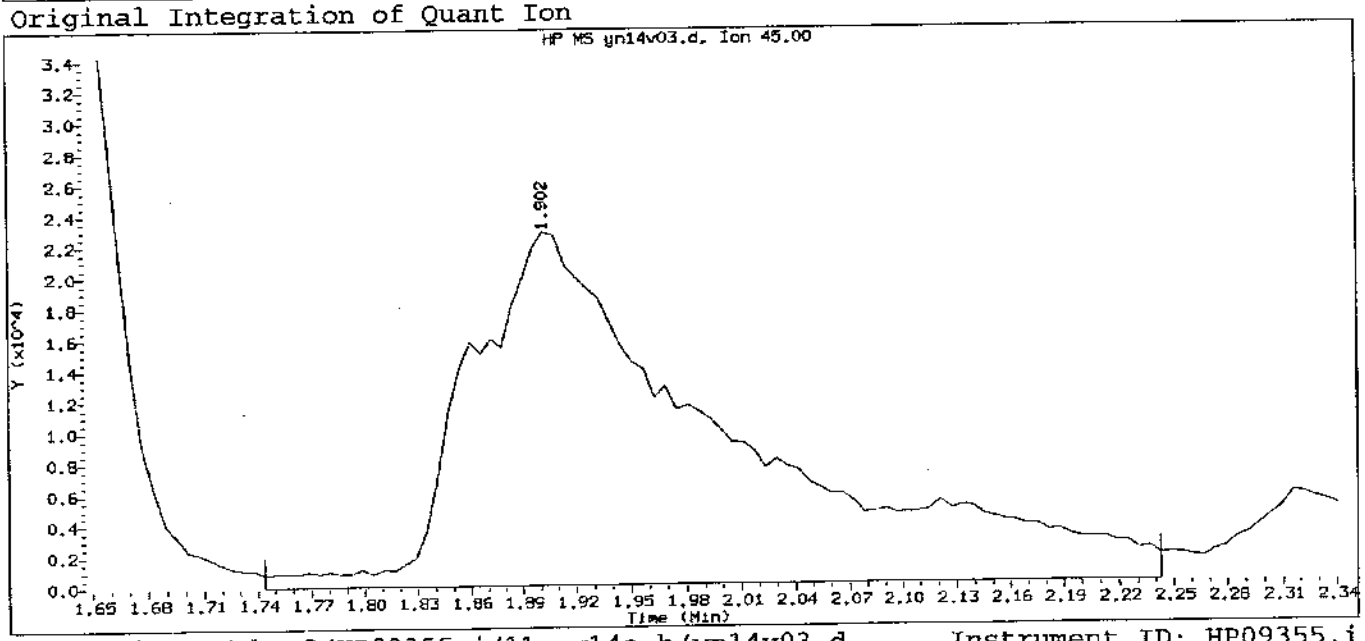
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 6296

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

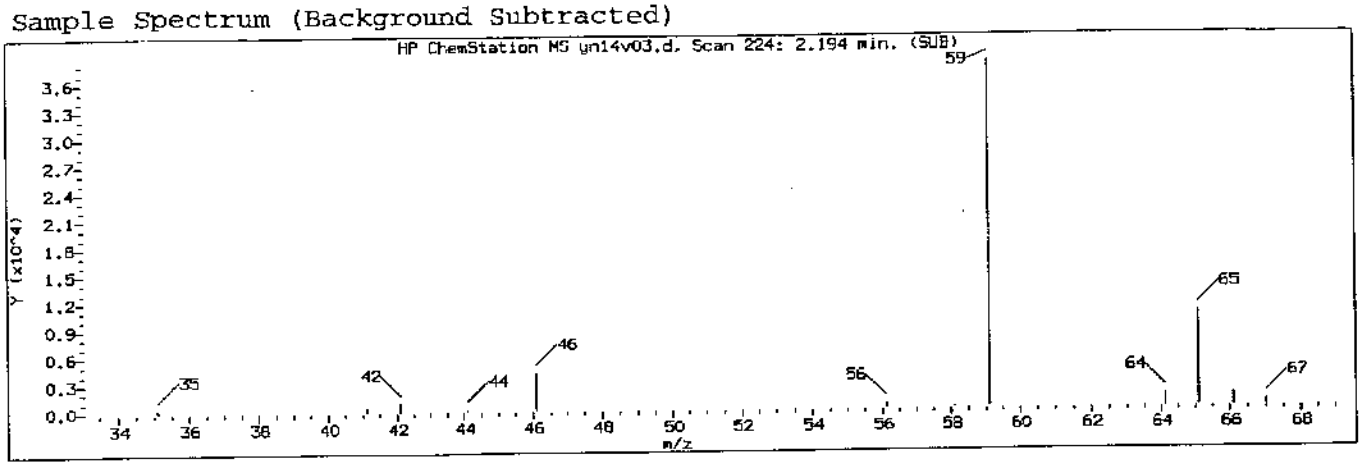
Sample Name: YLGICV Lab Sample ID: YLGICV

Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 176		
Retention Time (minutes)	: 1.902		
Quant Ion	: 45.00		
Area	: 229223		
On-column Amount (ng)	: 200.2676		
Integration start scan	: 149	Integration stop scan:	231
Y at integration start	: 0	Y at integration end:	0

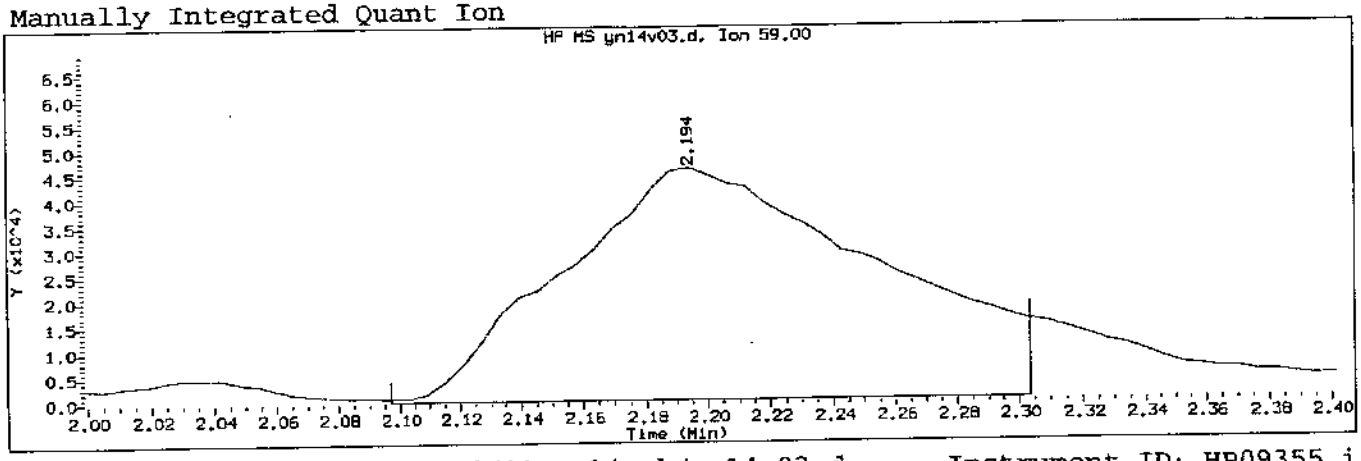
PCH09 0297

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30:
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV Lab Sample ID: YLGICV

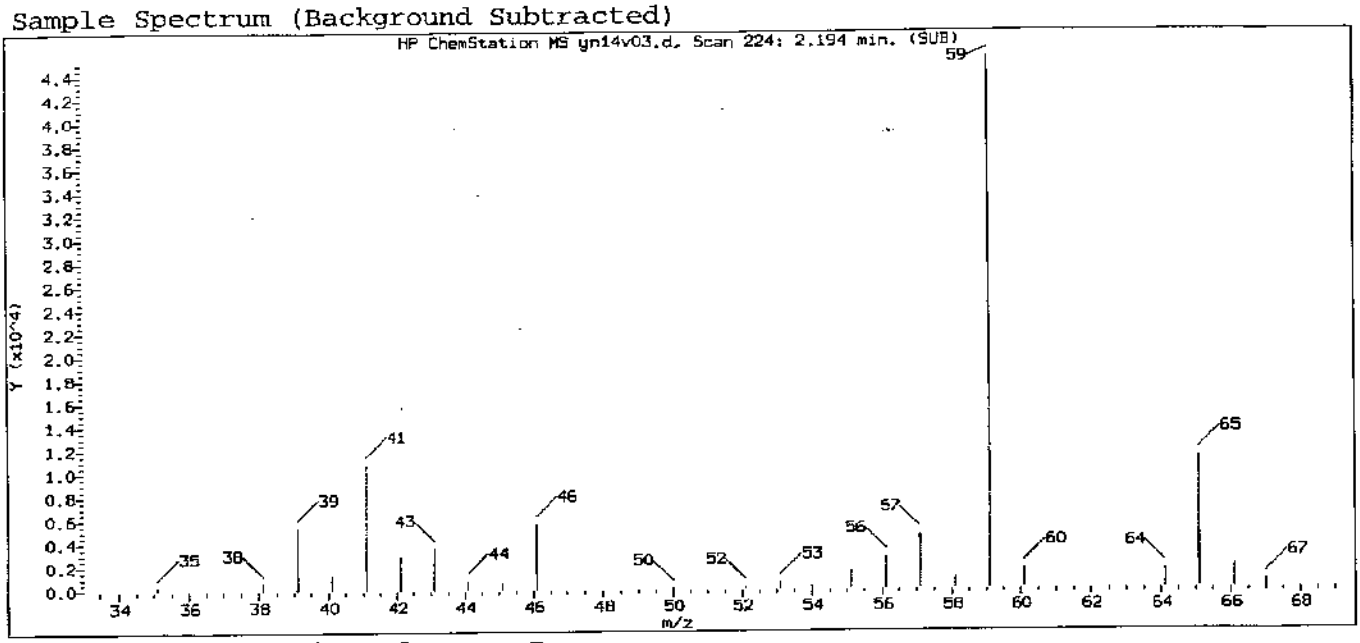
Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 224		
Retention Time (minutes)	: 2.194		
Quant Ion	: 59.00		
Area (flag)	: 324697M		
On-Column Amount (ng)	: 199.3057		
Integration start scan	: 207	Integration stop scan:	241
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

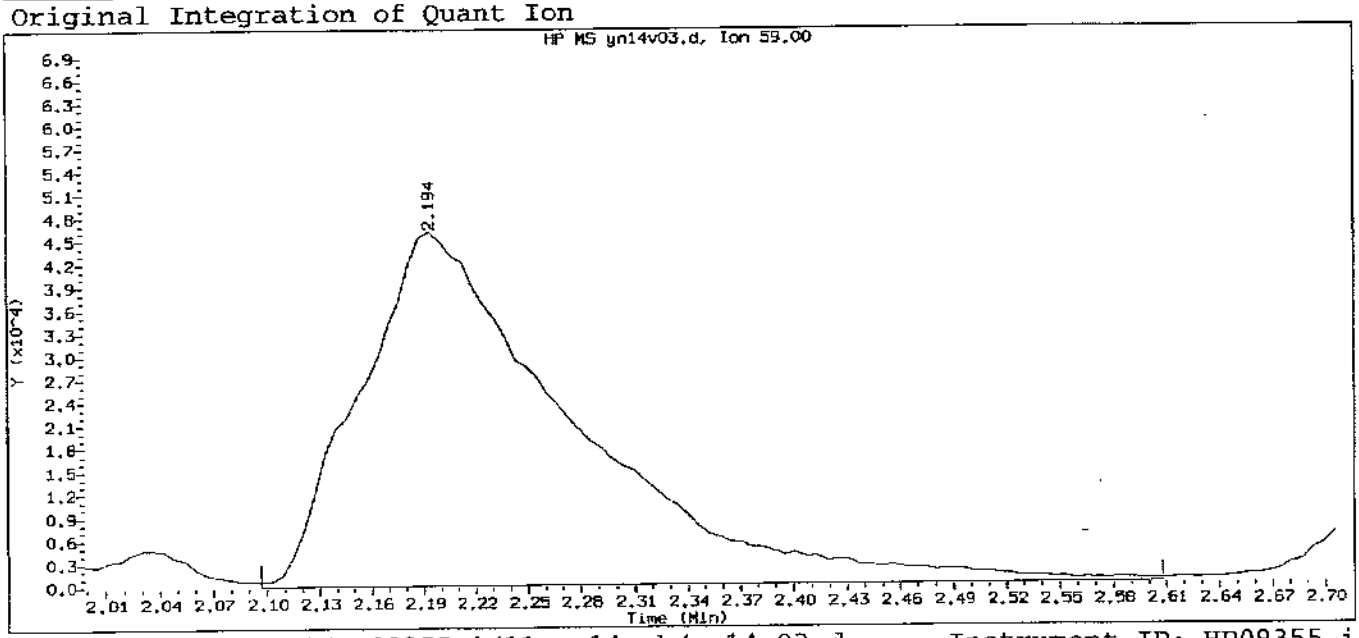
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 6290

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

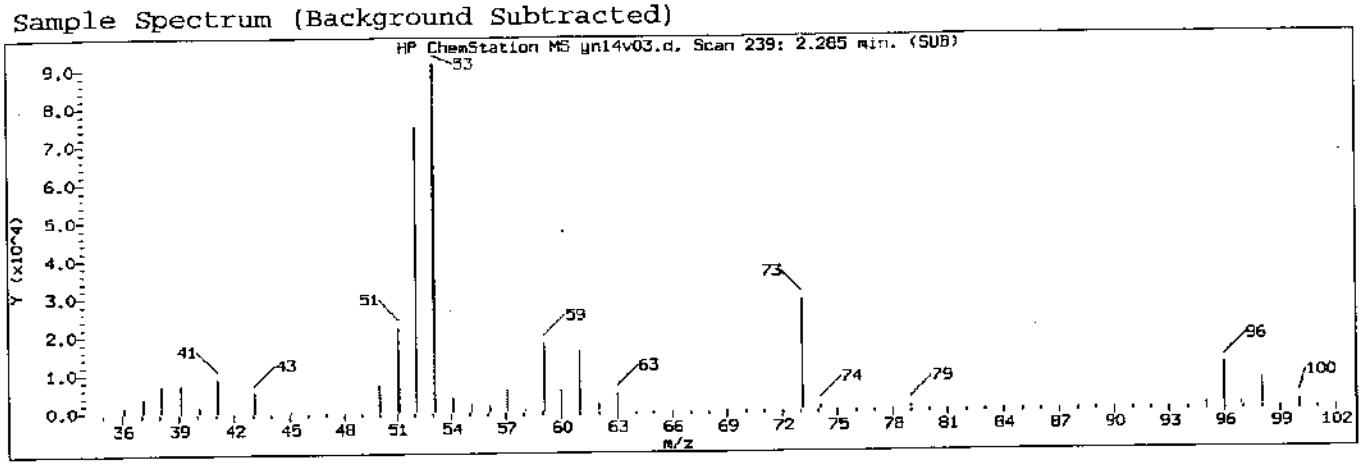
Sample Name: YLGICV Lab Sample ID: YLGICV

Compound Number	: 29		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 224		
Retention Time (minutes)	: 2.194		
Quant Ion	: 59.00		
Area	: 390314		
On-column Amount (ng)	: 239.5824		
Integration start scan	: 207	Integration stop scan:	291
Y at integration start	: 0	Y at integration end:	0

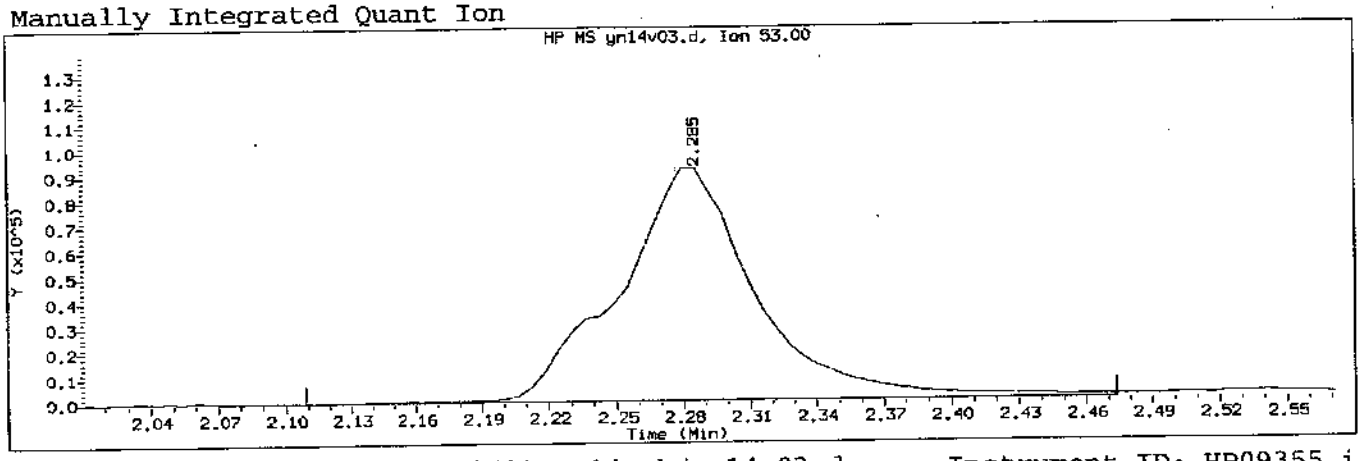
PCH09 0299

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV Lab Sample ID: YLGICV

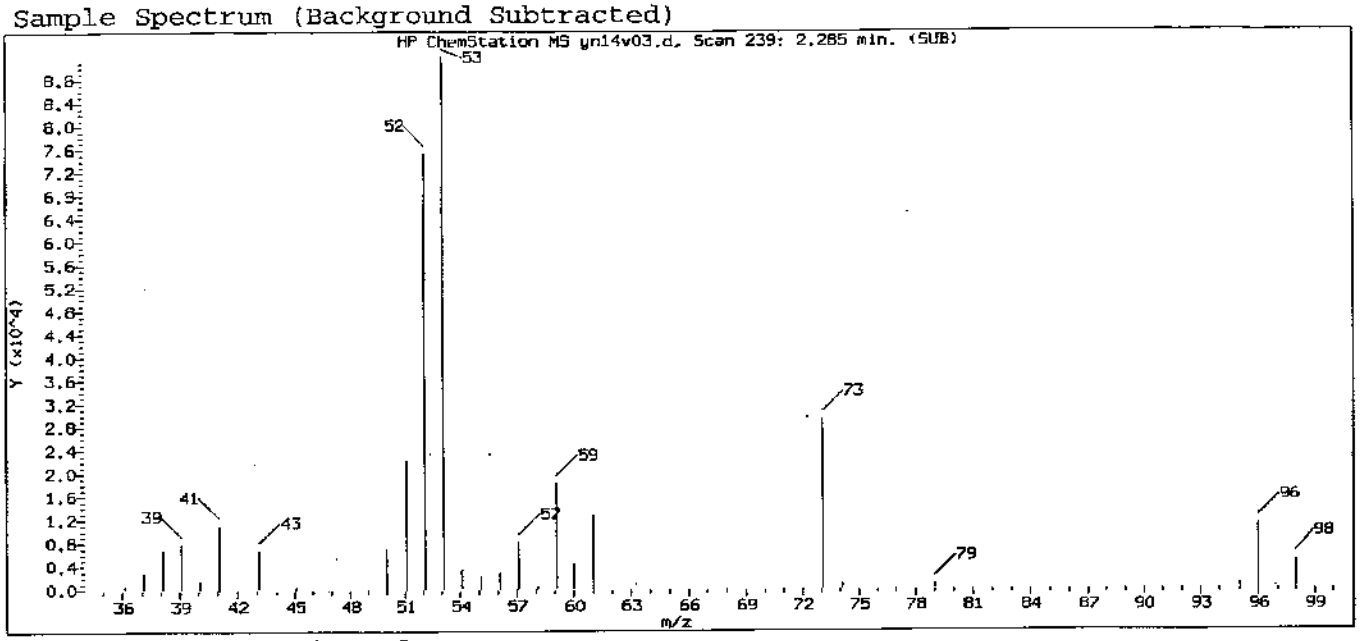
Compound Number : 30
Compound Name : Acrylonitrile
Scan Number : 239
Retention Time (minutes): 2.285
Quant Ion : 53.00
Area (flag) : 393654M
On-Column Amount (ng) : 87.8323
Integration start scan : 209 Integration stop scan: 269
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

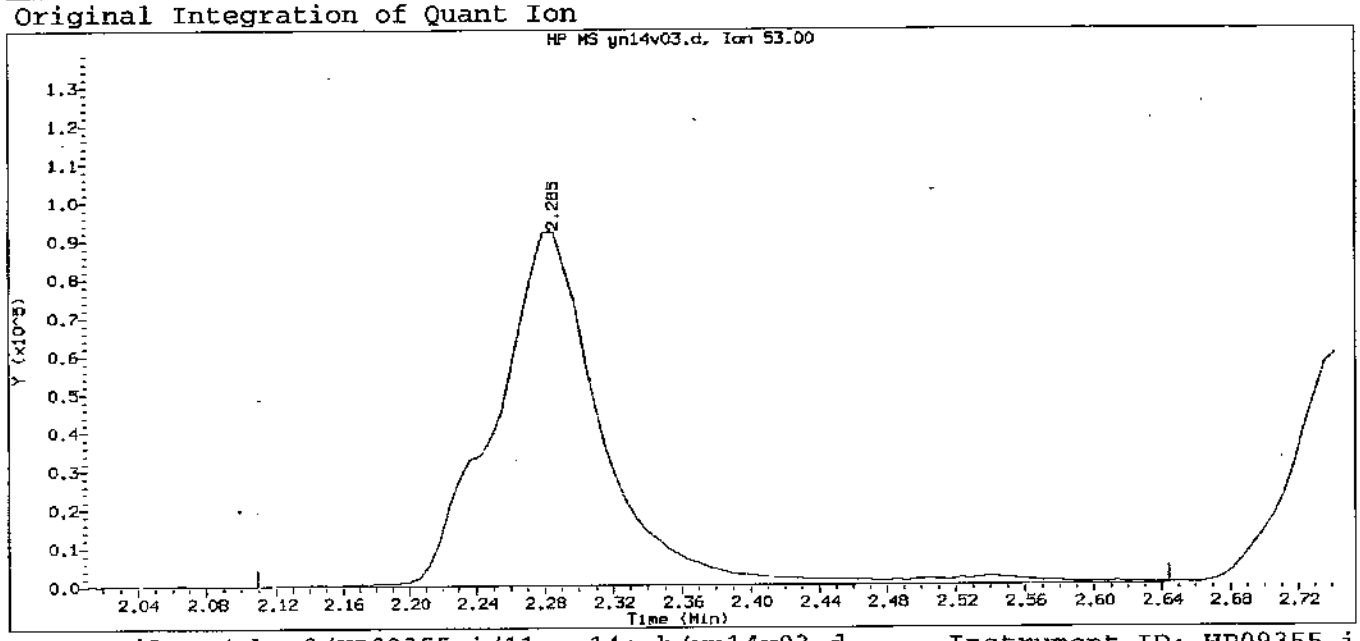
Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30. Target 3.5 esignature user ID: fav02618.

GC/MS audit/management approval: 11/17/11 PCH09 0366

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

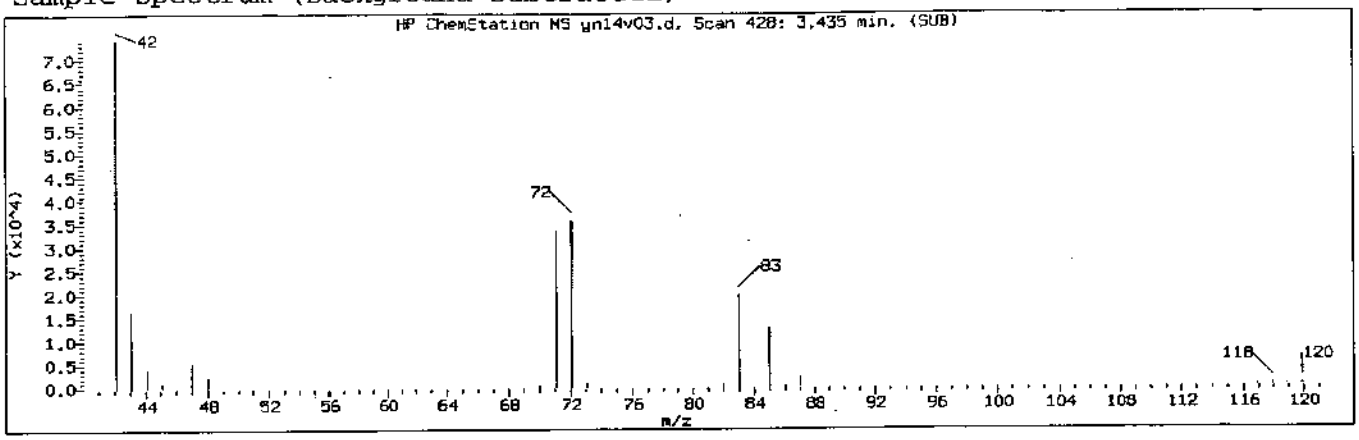
Sample Name: YLGICV Lab Sample ID: YLGICV

Compound Number	: 30		
Compound Name	: Acrylonitrile		
Scan Number	: 239		
Retention Time (minutes)	: 2.285		
Quant Ion	: 53.00		
Area	: 405347		
On-column Amount (ng)	: 90.4412		
Integration start scan	: 209	Integration stop scan:	297
Y at integration start	: 0	Y at integration end:	0

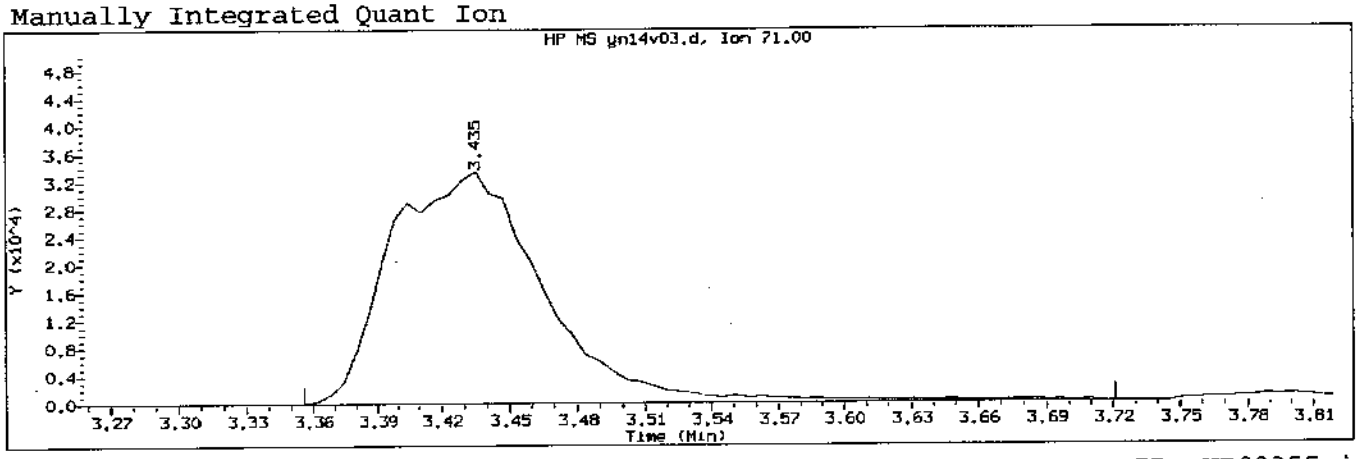
PCH09 5381

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV Lab Sample ID: YLGICV

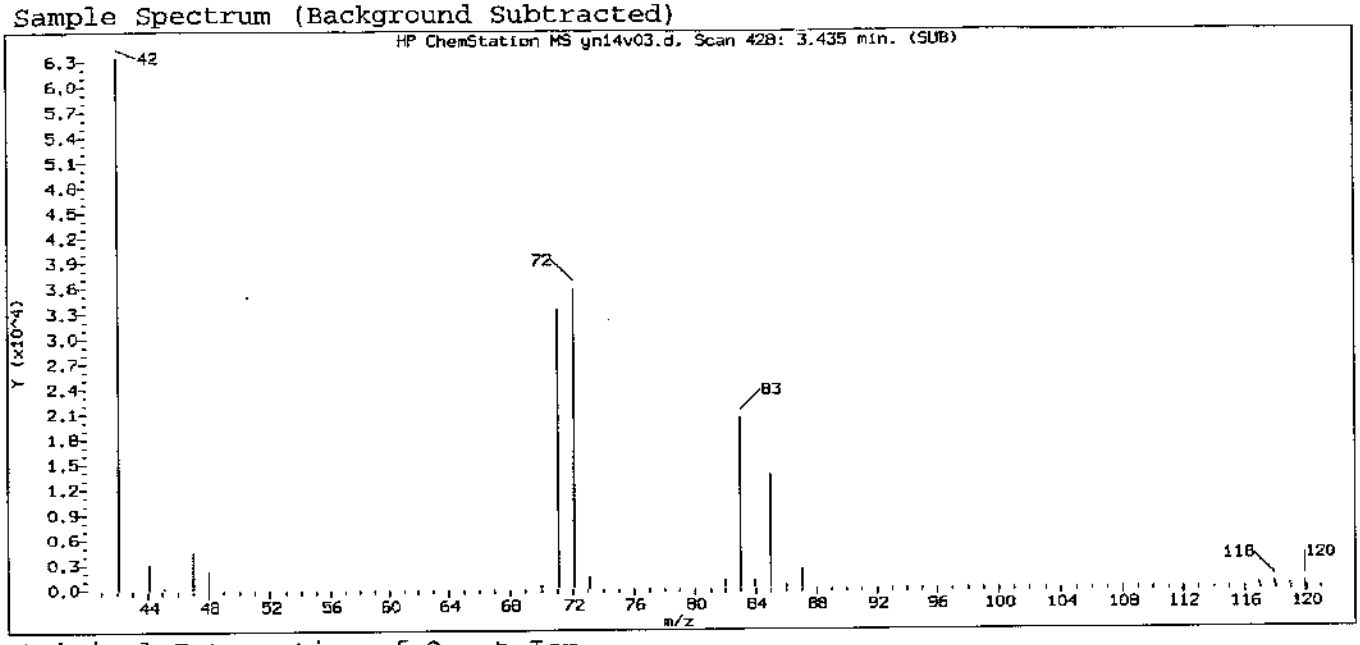
Compound Number	: 48		
Compound Name	: Tetrahydrofuran		
Scan Number	: 428		
Retention Time (minutes)	: 3.435		
Quant Ion	: 71.00		
Area (flag)	: 161454M		
On-Column Amount (ng)	: 96.3830		
Integration start scan	: 414	Integration stop scan:	474
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

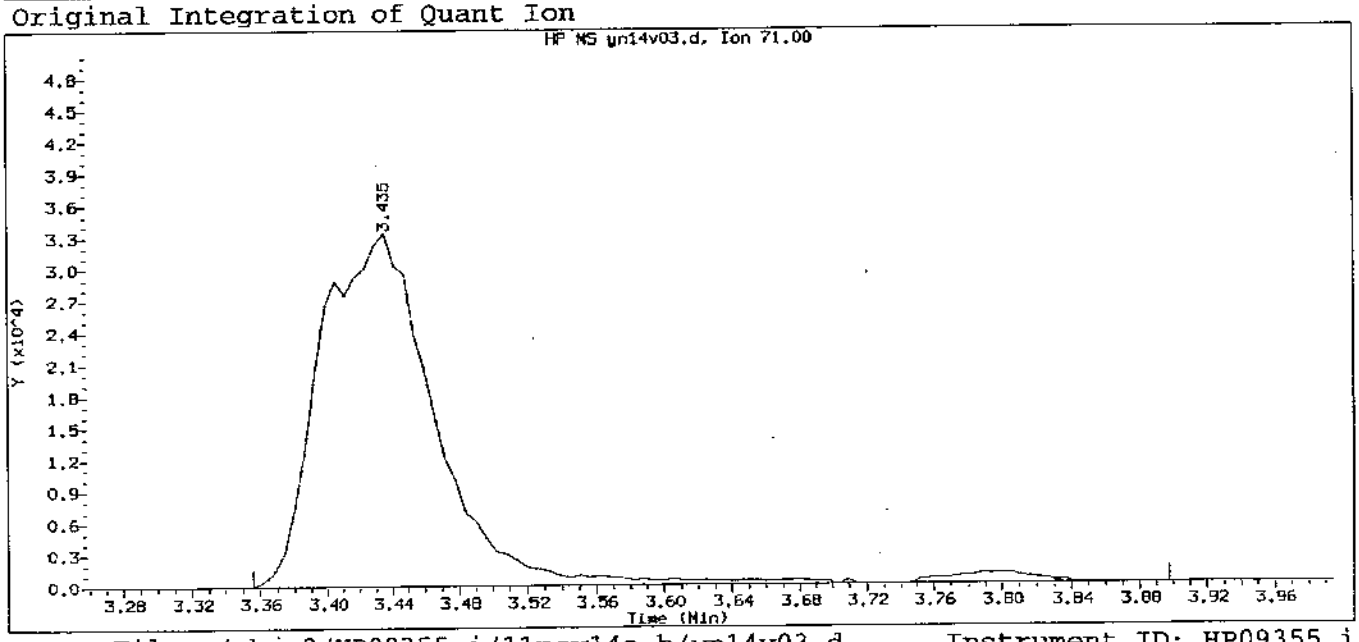
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH09 8382

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

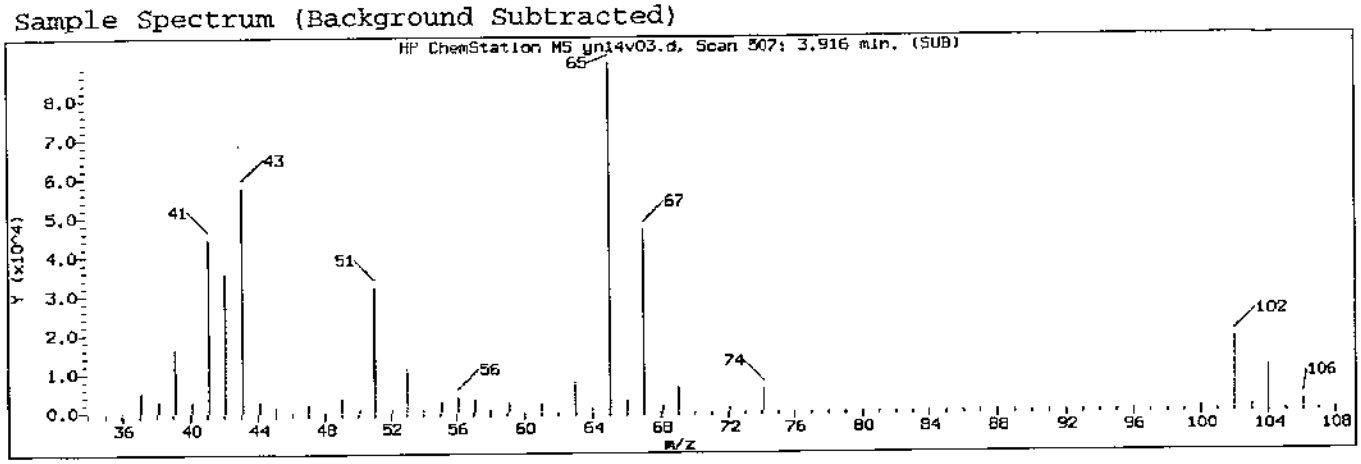
Sample Name: YLGICV Lab Sample ID: YLGICV

Compound Number	: 48		
Compound Name	: Tetrahydrofuran		
Scan Number	: 428		
Retention Time (minutes)	: 3.435		
Quant Ion	: 71.00		
Area	: 164950		
On-column Amount (ng)	: 98.4703		
Integration start scan	: 414	Integration stop scan:	503
Y at integration start	: 0	Y at integration end:	0

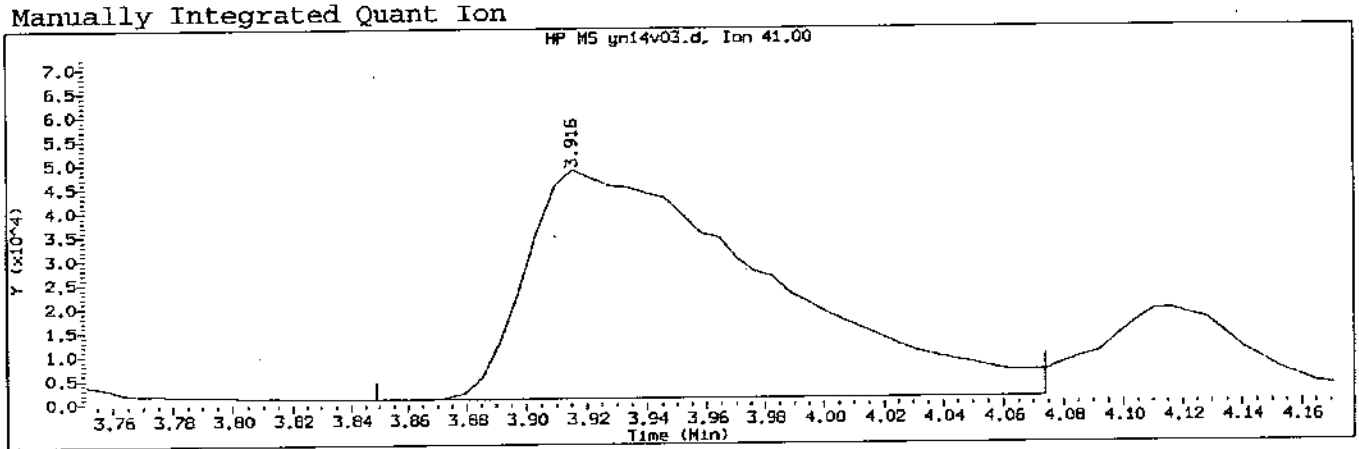
PCH05 03883

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 18:10
Date, time and analyst ID of latest file update: 14-Nov-2011 18:10 fav02618

Sample Name: YLGICV Lab Sample ID: YLGICV

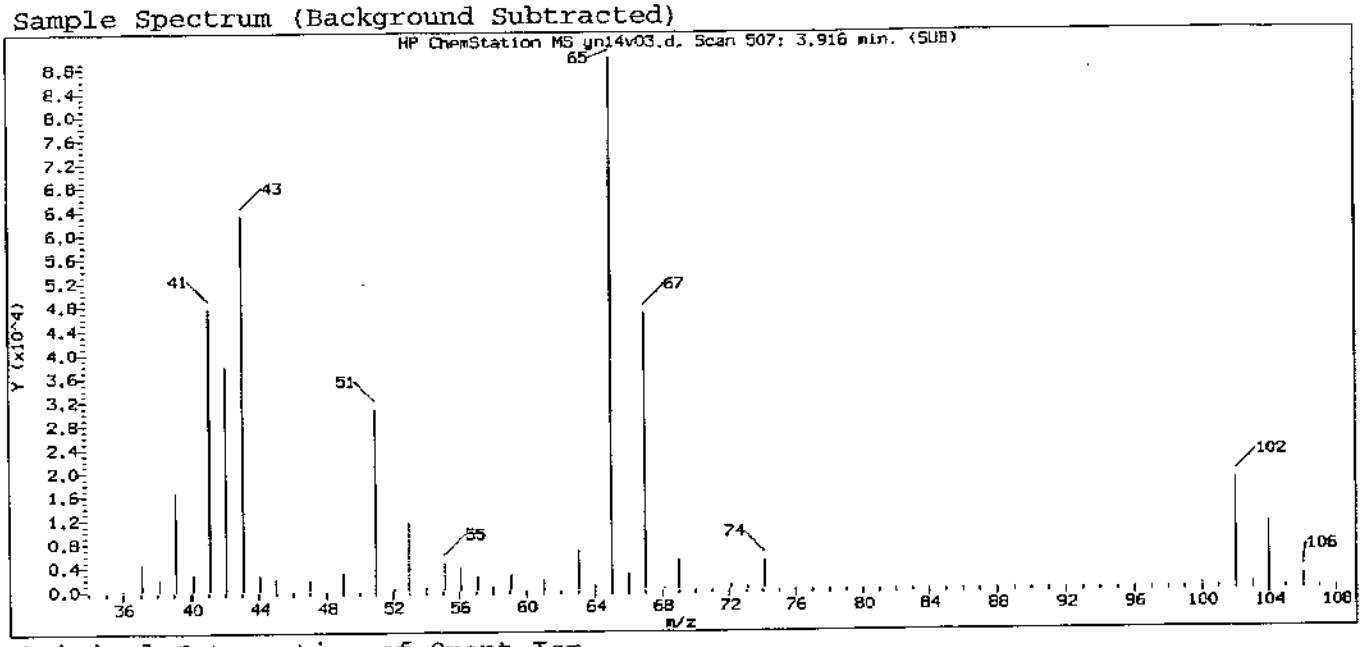
Compound Number	: 59		
Compound Name	: Isobutyl Alcohol		
Scan Number	: 507		
Retention Time (minutes)	: 3.916		
Quant Ion	: 41.00		
Area (flag)	: 272293M		
On-Column Amount (ng)	: 512.0495		
Integration start scan	: 495	Integration stop scan:	532
Y at integration start	: 695	Y at integration end:	695

Reason for manual integration: improper integration

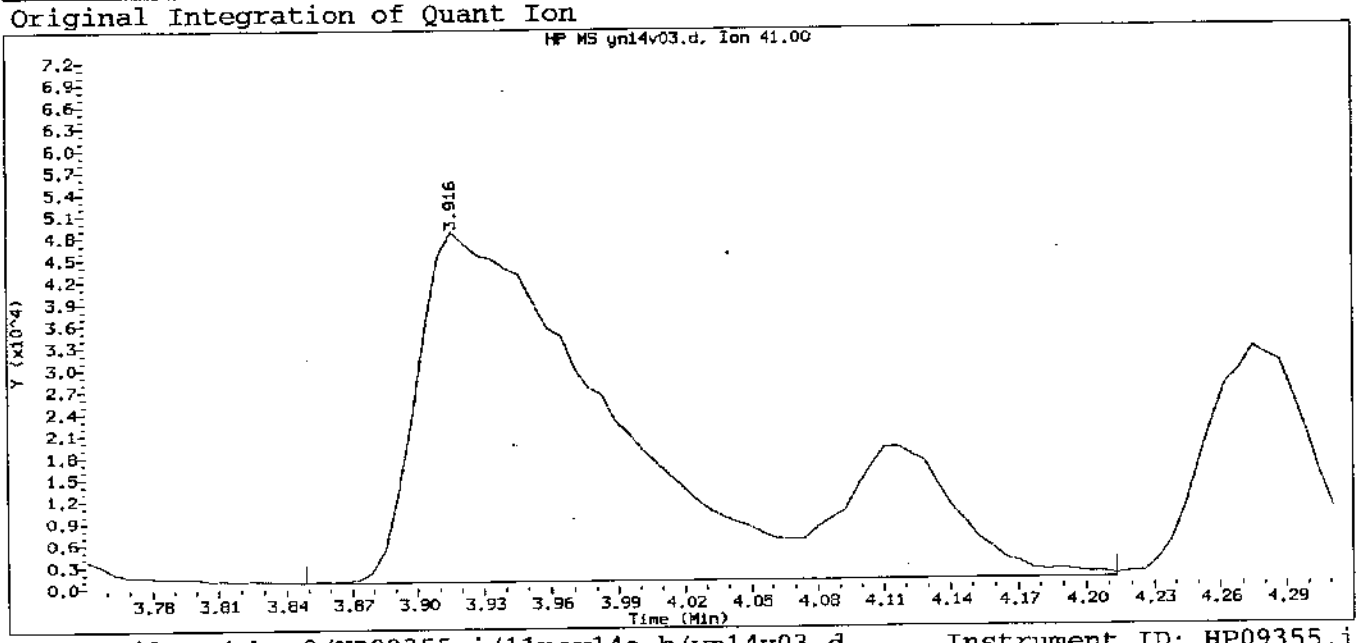
Analyst responsible for change: Digitally signed by Frank A. Valla Jr.
on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

GC/MS audit/management approval: 11/17/11 PCH89 0364

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov14a.b/yn14v03.d Instrument ID: HP09355.i
Injection date and time: 14-NOV-2011 17:13 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/11nov14a.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 14-NOV-2011 17:42
Date, time and analyst ID of latest file update: 14-Nov-2011 17:42 fav02618

Sample Name: YLGICV Lab Sample ID: YLGICV

Compound Number	: 59		
Compound Name	: Isobutyl Alcohol		
Scan Number	: 507		
Retention Time (minutes)	: 3.916		
Quant Ion	: 41.00		
Area	: 335662		
On-column Amount (ng)	: 631.2152		
Integration start scan	: 495	Integration stop scan:	555
Y at integration start	: 695	Y at integration end:	695

PCH09 03005

Digitally signed by Frank A. Valla Jr. on 11/14/2011 at 20:30.
Target 3.5 esignature user ID: fav02618

Data File: /chem2/HP09355.i/11nov28b.b/yn28t05.d

Date : 28-NOV-2011 20:41

Client ID: 50NG BFB AUG-02

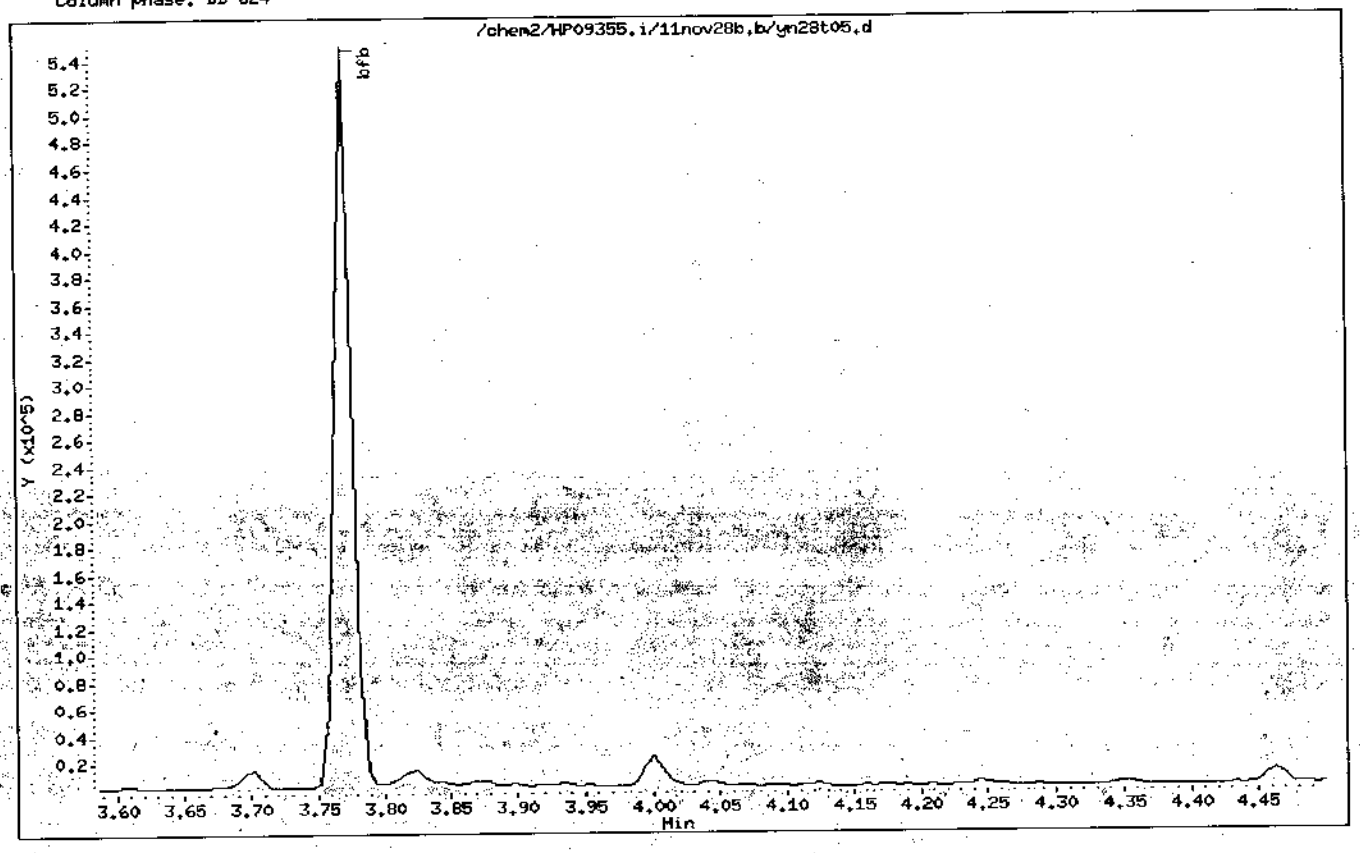
Instrument: HP09355.i

Sample Info: 50NG BFB AUG-02

Operator: FAV02618

Column phase: DB-624

Column diameter: 0.18



Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

PCH09 0366

Data File: /chem2/HP09355.i/11nov28b.b/yn28t05.d

Date : 28-NOV-2011 20:41

Client ID: 50NG BFB AUG-02

Instrument: HP09355.i

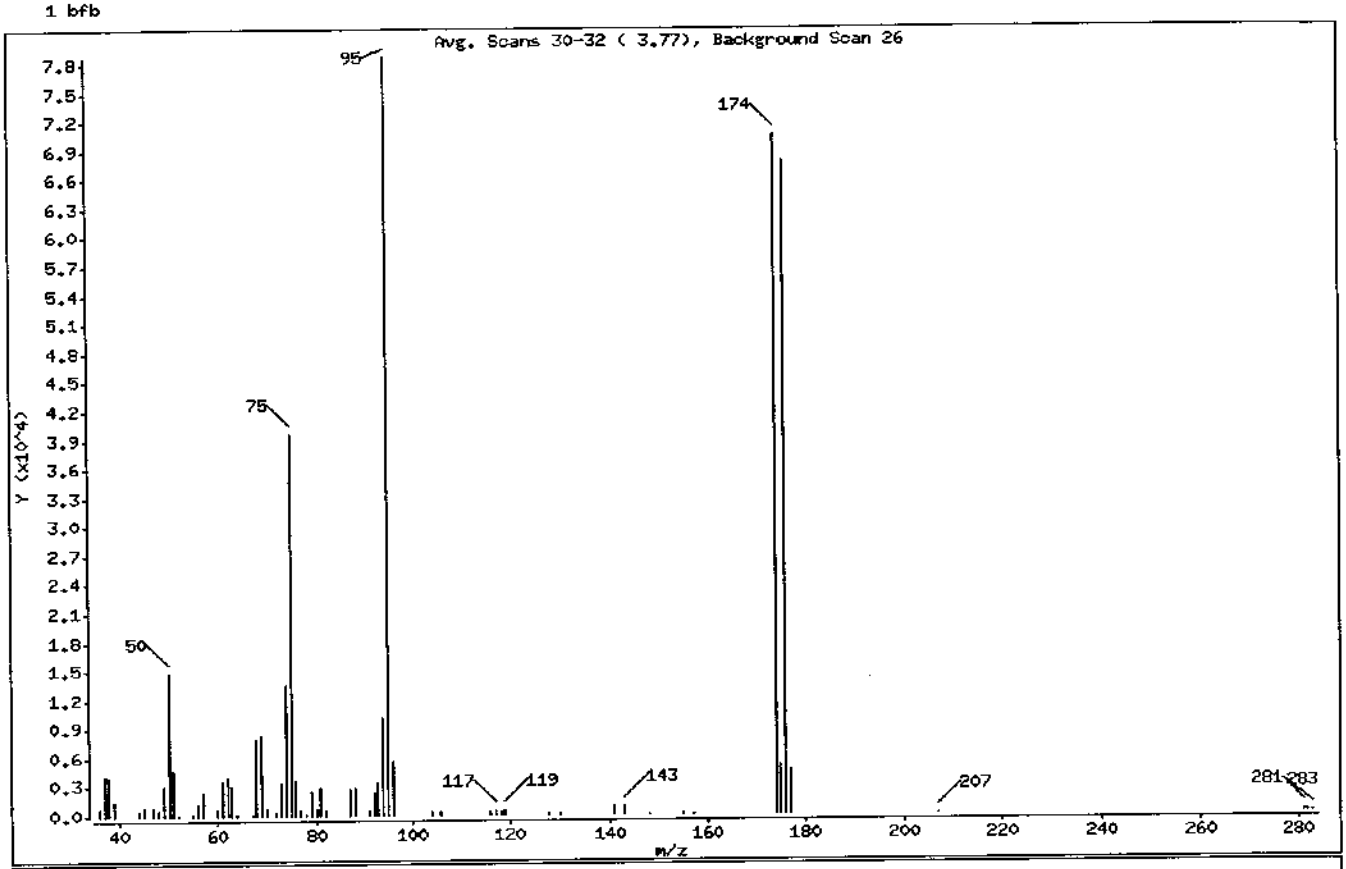
Sample Info: 50NG BFB AUG-02

Operator: FAV02618

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	18.95
75	30.00 - 60.00% of mass 95	50.33
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	89.76
175	5.00 - 9.00% of mass 174	6.54 (7.28)
176	95.00 - 101.00% of mass 174	86.20 (96.03)
177	5.00 - 9.00% of mass 176	5.84 (6.78)

Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

Data File: /chem2/HP09355.i/11nov28b.b/yn28t05.d

Date : 28-NOV-2011 20:41

Client ID: 50NG BFB AUG-02

Instrument: HP09355.i

Sample Info: 50NG BFB AUG-02

Operator: FAV02618

Column phase: DB-624

Column diameter: 0.18

Data File: yn28t05.d

Spectrum: Avg. Scans 30-32 (3.77), Background Scan 26

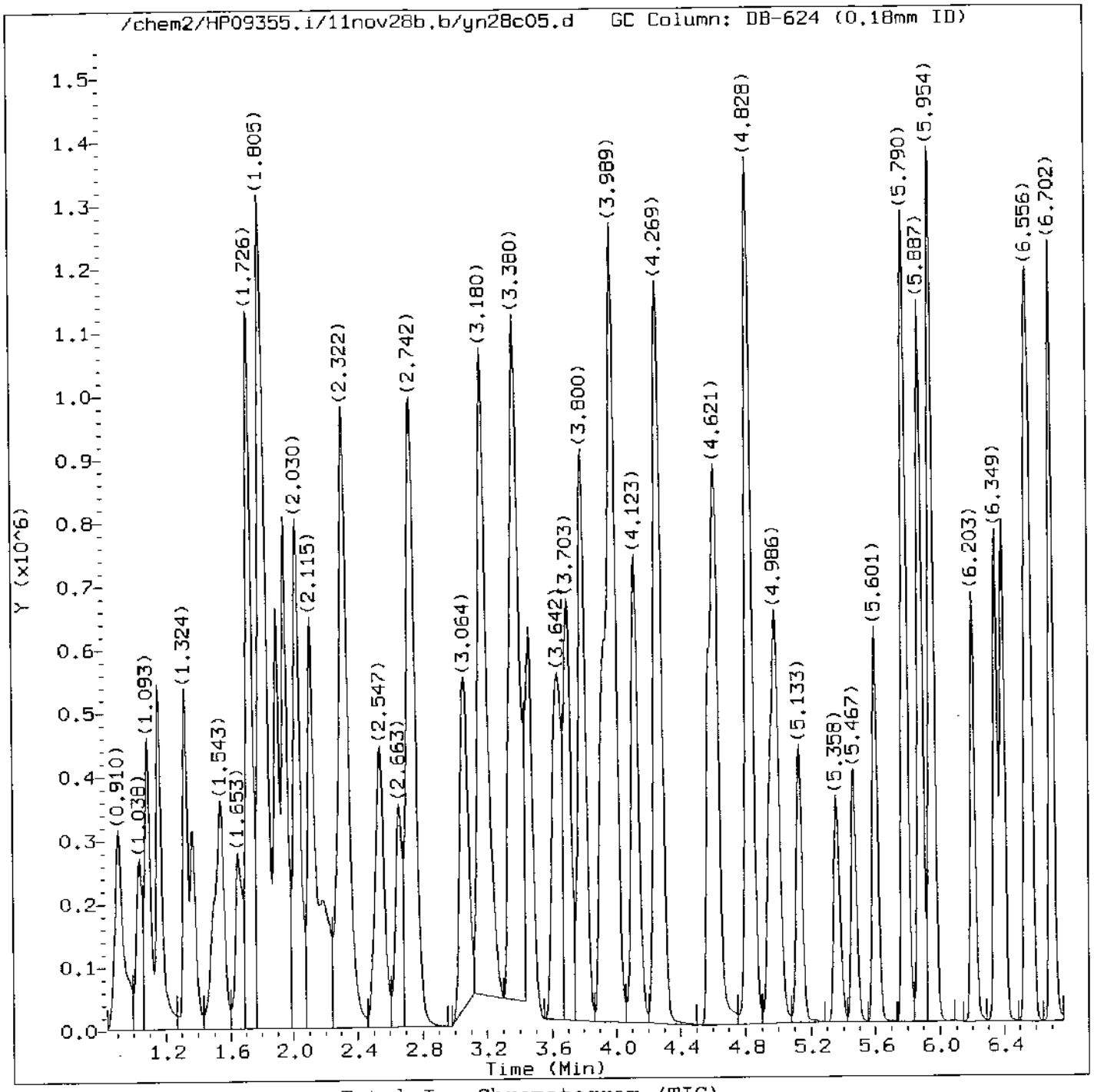
Location of Maximum: 95.00

Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	767	62.00	4006	82.00	564	141.00	863
37.00	4124	63.00	2997	87.00	2761	143.00	938
38.00	3947	64.00	225	88.00	2920	148.00	85
39.00	1521	67.00	130	91.00	468	155.00	99
44.00	577	68.00	7948	92.00	2400	157.00	84
45.00	890	69.00	8345	93.00	3483	174.00	70664
47.00	870	70.00	750	94.00	10110	175.00	5148
48.00	577	72.00	396	95.00	78728	176.00	67864
49.00	3093	73.00	3396	96.00	5588	177.00	4598
50.00	14922	74.00	13585	104.00	342	207.00	73
51.00	4714	75.00	39624	106.00	391	281.00	123
52.00	88	76.00	3541	116.00	333	282.00	94
55.00	134	77.00	529	117.00	542	283.00	83
56.00	1304	78.00	262	118.00	423		
57.00	2348	79.00	2586	119.00	526		
60.00	682	80.00	758	128.00	230		
61.00	3630	81.00	2819	130.00	258		

Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

PCH09 00000



Total Ion Chromatogram (TIC)

Target Revision 3.5

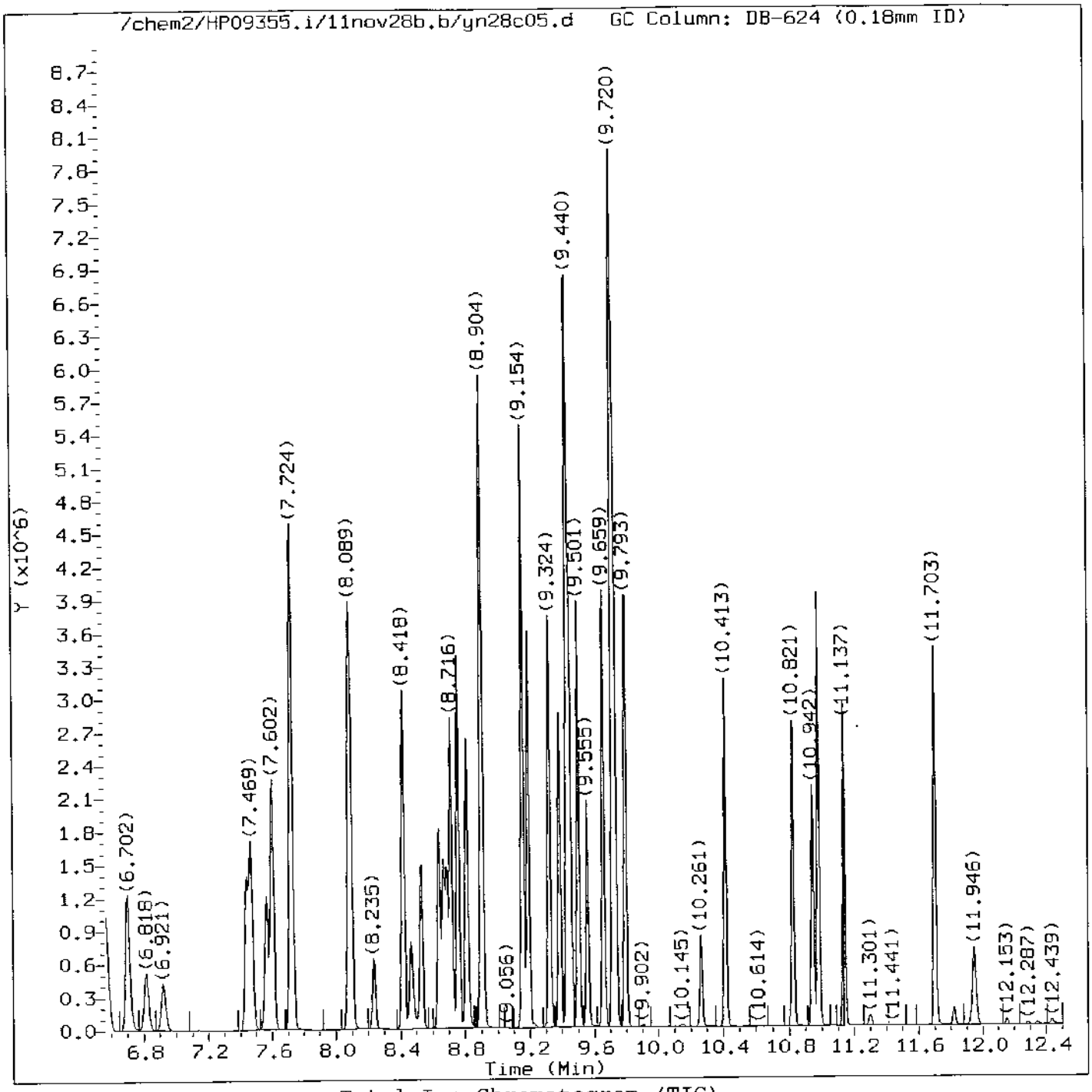
Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 20:57 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:13 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

FCH09 6389

Digitally signed by Frank A. Valla Jr.
on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 20:57 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:13 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

PCH09 8318

Digitally signed by Frank A. Valla Jr.
on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d
Injection date and time: 28-NOV-2011 20:57
Instrument ID: HP09355.i
Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m
Calibration date and time: 28-NOV-2011 21:12
Sublist used: 8260WI-4
Date, time and analyst ID of latest file update: 28-Nov-2011 21:13 fav02618

Sample Name: VSTD050
Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.038	85	547321	52.332
3) Chloromethane	(1)	1.093	50	516463M	53.855
5) Vinyl Chloride	(1)	1.160	62	503190	51.921
7) Bromomethane	(1)	1.324	94	402031	54.675
8) Chloroethane	(1)	1.373	64	297479	53.669
10) Trichlorofluoromethane	(1)	1.543	101	673890M	49.232
13) Ethyl Ether	(1)	1.647	59	220335	37.394
15) Acrolein	(4)	1.726	56	1569019	518.361
16) 1,1-Dichloroethene	(1)	1.805	96	374873	54.340
18) Freon 113	(1)	1.823	101	413562	57.115
17) Acetone	(1)	1.823	58	195733	125.216
20) Methyl Iodide	(1)	1.902	142	706642	50.302
21) 2-Propanol	(4)	1.902	45	366908M	311.814
22) Carbon Disulfide	(1)	1.951	76	1150393	58.799
24) Allyl Chloride	(1)	2.030	41	507156	52.135
25) Methyl Acetate	(1)	2.036	43	566805	60.502
26) Methylene Chloride	(1)	2.115	84	310555	52.693
28) *t-Butyl Alcohol-d10	(4)	2.139	65	377793	250.000
29) t-Butyl Alcohol	(4)	2.188	59	480261	286.750
30) Acrylonitrile	(1)	2.285	53	226375	53.616
31) trans-1,2-Dichloroethene	(1)	2.322	96	294853	52.090
32) Methyl Tertiary Butyl Ether	(1)	2.328	73	934253	50.851
33) n-Hexane	(1)	2.541	57	422578	54.120
34) 1,1-Dichloroethane	(1)	2.663	63	508945	51.310
36) di-Isopropyl Ether	(1)	2.736	45	916262	51.325
37) 2-Chloro-1,3-Butadiene	(1)	2.742	53	441189	49.818
39) Ethyl t-Butyl Ether	(1)	3.064	59	883440	50.116
40) cis-1,2-Dichloroethene	(1)	3.174	96	321343	52.064
41) 2-Butanone	(1)	3.180	43	627726	107.533
42) 2,2-Dichloropropane	(1)	3.192	77	395711	47.755
43) Propionitrile	(4)	3.228	54	467848	256.468
46) Methacrylonitrile	(1)	3.374	67	517480	130.936
47) Bromochloromethane	(1)	3.386	128	166972	50.281
48) Tetrahydrofuran	(4)	3.429	71	174268	101.194
50) Chloroform	(1)	3.466	83	514097	51.815
52) $Dibromofluoromethane	(1)	3.612	113	242650	49.120
51) $Dibromofluoromethane(mz111)	(1)	3.618	111	250272	49.736
45) 1,2-Dichloroethene (total)	(1)		96	616196	104.154

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

Digitally signed by Frank A. Valla Jr.
on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 20:57 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:13 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
53) 1,1,1-Trichloroethane	(1)	3.648	97	474032	47.109
55) Cyclohexane (mz 69)	(1)	3.703	69	152149	51.992
54) Cyclohexane (mz 84)	(1)	3.703	84	438200	53.292
56) Cyclohexane	(1)	3.703	56	498869	52.841
57) 1,1-Dichloropropene	(1)	3.794	75	396239	50.850
58) Carbon Tetrachloride	(1)	3.806	117	398491	50.576
60) $1,2-Dichloroethane-d4(mz104)	(1)	3.922	104	38904	50.694
61) $1,2-Dichloroethane-d4(mz65)	(1)	3.928	65	319329	49.386
62) $1,2-Dichloroethane-d4	(1)	3.928	102	63169	52.123
59) Isobutyl Alcohol	(4)	3.940	41	346678	634.143
63) Benzene	(1)	3.989	78	1184290	52.314
64) 1,2-Dichloroethane (mz 98)	(1)	3.995	98	37616	51.612
65) 1,2-Dichloroethane	(1)	4.001	62	435375	48.600
69) t-Amyl Methyl Ether	(1)	4.123	73	830692	49.689
71) *Fluorobenzene	(1)	4.263	96	997807	50.000
72) n-Heptane	(1)	4.281	43	430667	48.590
73) n-Butanol	(4)	4.579	56	565255	1238.779
74) Trichloroethene	(1)	4.628	95	311978	51.077
75) Methylcyclohexane (mz98)	(1)	4.828	98	234309	49.890
76) Methylcyclohexane	(1)	4.828	83	508244	50.298
77) 1,2-Dichloropropane	(1)	4.840	63	302227	51.168
78) Dibromomethane	(1)	4.956	93	209845	50.849
79) 1,4-Dioxane	(4)	4.980	88	84940	571.720
80) Methyl Methacrylate	(1)	4.993	69	311620	51.543
83) Bromodichloromethane	(1)	5.133	83	371511	52.095
85) 2-Nitropropane	(1)	5.358	41	313385	110.730
86) 2-Chloroethyl Vinyl Ether	(1)	5.467	63	231351	50.363
87) cis-1,3-Dichloropropene	(1)	5.601	75	447982	51.469
89) 4-Methyl-2-Pentanone	(1)	5.790	43	1184025	106.811
92) $Toluene-d8(mz100)	(2)	5.887	100	632911	48.991
93) $Toluene-d8	(2)	5.887	98	991374	49.938
94) Toluene	(2)	5.954	92	767874	51.793
95) trans-1,3-Dichloropropene	(2)	6.203	75	428273	51.712
96) Ethyl Methacrylate	(2)	6.349	69	459426	49.674
97) 1,1,2-Trichloroethane	(2)	6.398	97	295125	51.853
98) Tetrachloroethene	(2)	6.550	166	368578	50.309
99) 1,3-Dichloropropane	(2)	6.568	76	488807	51.106
101) 2-Hexanone	(2)	6.702	43	925721	106.470

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

FCH09 0312

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on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 20:57 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:13 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
102) Dibromochloromethane	(2)	6.818	129	314664	56.038
104) 1,2-Dibromoethane	(2)	6.921	107	326251	52.323
106) *Chlorobenzene-d5	(2)	7.438	117	752584	50.000
107) Chlorobenzene	(2)	7.469	112	894105	51.576
108) 1,1,1,2-Tetrachloroethane	(2)	7.566	131	306799	52.339
109) Ethylbenzene	(2)	7.602	91	1522956	52.344
110) m+p-Xylene	(2)	7.724	106	1272997	103.821
113) o-Xylene	(2)	8.083	106	629241	51.405
114) Styrene	(2)	8.095	104	1032814	51.737
112) Xylene (Total)	(2)		106	1902238	155.226
115) Bromoform	(2)	8.235	173	245161	48.423
116) Isopropylbenzene	(2)	8.418	105	1630126	53.233
118) Cyclohexanone	(4)	8.466	55	308220	586.955
119) $4-Bromofluorobenzene	(2)	8.527	95	370786	49.437
120) $4-Bromofluorobenzene(mz174)	(2)	8.533	174	347864	50.034
121) Bromobenzene	(3)	8.643	156	433587	51.429
122) 1,1,2,2-Tetrachloroethane	(3)	8.667	83	532700	53.449
123) 1,2,3-Trichloropropane	(3)	8.691	110	175134	51.698
124) trans-1,4-Dichloro-2-Butene	(3)	8.716	53	418367	115.721
125) n-Propylbenzene	(3)	8.758	91	1915609	54.152
126) 2-Chlorotoluene	(3)	8.813	126	402825	51.491
128) 4-Chlorotoluene	(3)	8.898	126	437707	51.338
127) 1,3,5-Trimethylbenzene	(3)	8.904	105	1494973	53.895
130) tert-Butylbenzene	(3)	9.154	134	348617	51.815
131) Pentachloroethane	(3)	9.154	167	273476	53.872
132) 1,2,4-Trimethylbenzene	(3)	9.190	105	1472389	53.136
133) sec-Butylbenzene	(3)	9.324	105	1829337	54.811
134) 1,3-Dichlorobenzene	(3)	9.385	146	859057	51.935
135) p-Isopropyltoluene	(3)	9.434	119	1762337	55.003
136) *1,4-Dichlorobenzene-d4	(3)	9.440	152	532749	50.000
138) 1,4-Dichlorobenzene	(3)	9.452	146	918615	51.763
139) 1,2,3-Trimethylbenzene	(3)	9.501	105	1503585	53.028
141) Benzyl Chloride	(3)	9.555	91	1006327	54.228
142) 1,3-Diethylbenzene	(3)	9.659	119	955885	52.477
143) 1,4-Diethylbenzene	(3)	9.713	119	1082985	53.957
144) 1,2-Dichlorobenzene	(3)	9.720	146	953280	54.241
145) n-Butylbenzene	(3)	9.732	92	853221	54.494
146) 1,2-Diethylbenzene	(3)	9.799	119	827930	52.453

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

PCH09 8313

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on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d
Injection date and time: 28-NOV-2011 20:57
Instrument ID: HP09355.i
Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m
Calibration date and time: 28-NOV-2011 21:12
Sublist used: 8260WI-4
Date, time and analyst ID of latest file update: 28-Nov-2011 21:13 fav02618

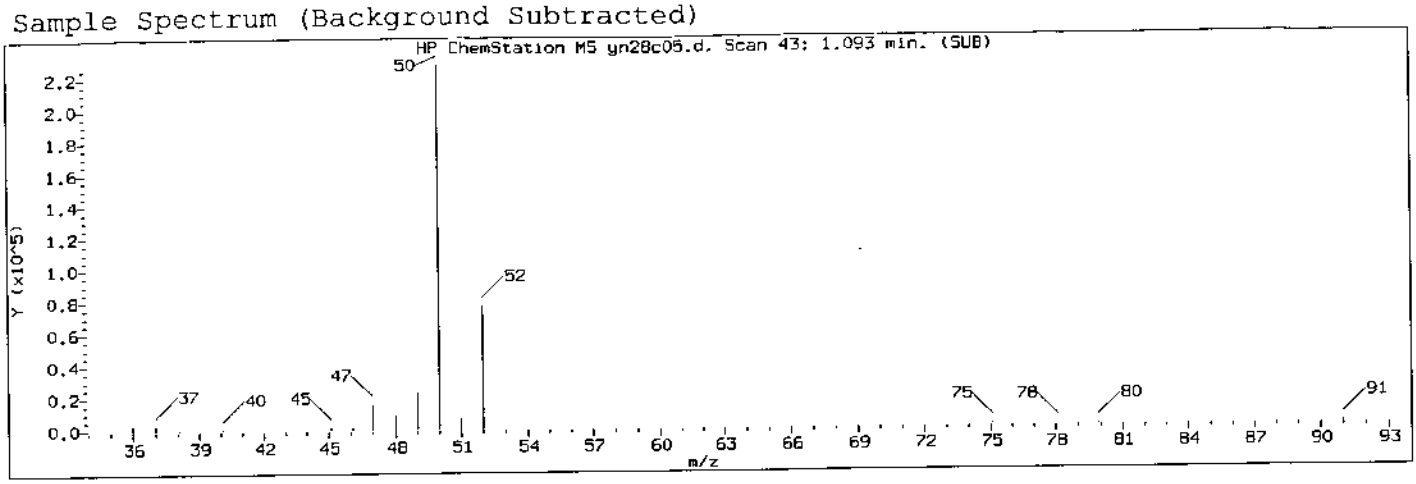
Sample Name: VSTD050
Lab Sample ID: VSTD050

	Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
148)	1,2-Dibromo-3-Chloropropane	(3)	10.261	75	138272	52.159
149)	1,3,5-Trichlorobenzene	(3)	10.413	180	694672	51.639
150)	1,2,4-Trichlorobenzene	(3)	10.827	180	616183	49.462
151)	Hexachlorobutadiene	(3)	10.942	225	278798	46.619
152)	Naphthalene	(3)	10.979	128	2079194	49.091
153)	1,2,3-Trichlorobenzene	(3)	11.137	180	588474	47.862
154)	2-Methylnaphthalene	(3)	11.703	142	1090225	44.357

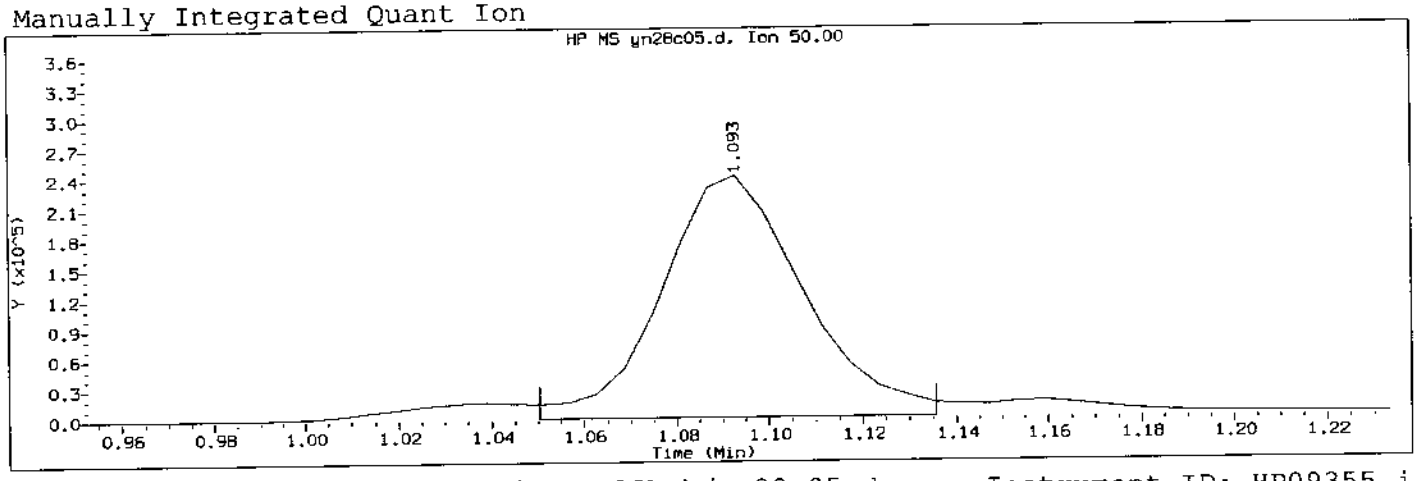
PCH69 0314

Digitally signed by Frank A. Valla Jr.
on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 20:57 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:13 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 43		
Retention Time (minutes)	: 1.093		
Quant Ion	: 50.00		
Area (flag)	: 516463M		
On-Column Amount (ng)	: 53.8551		
Integration start scan	: 35	Integration stop scan:	49
Y at integration start	: 0	Y at integration end:	0

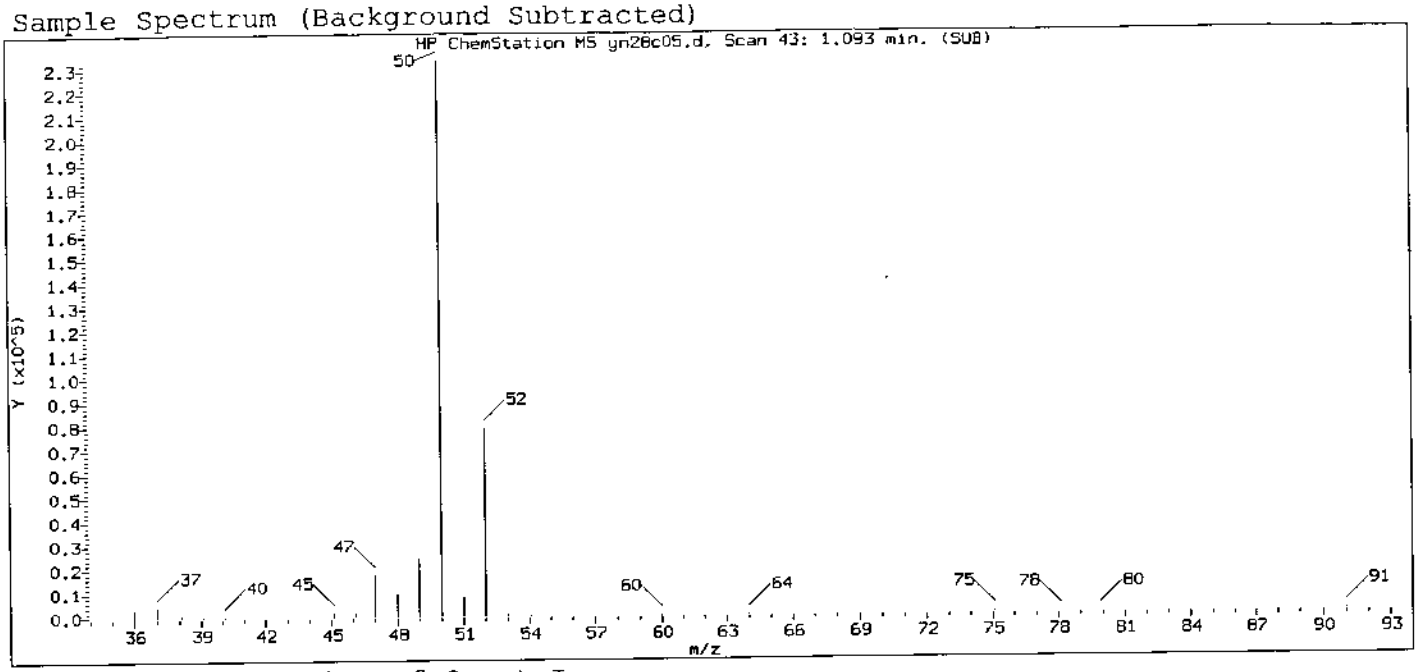
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:14. Target 3.5 esignature user ID: fav02618

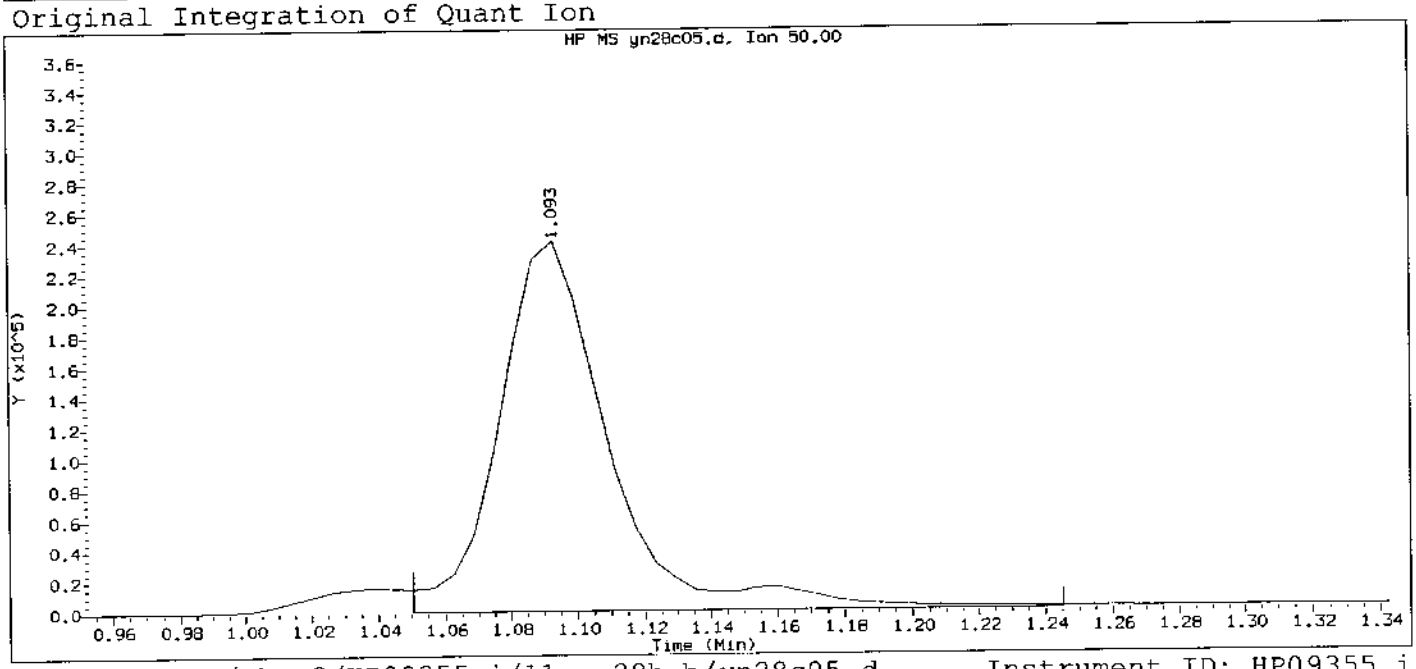
PCH09_0315

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36.
Parallax ID: cmd00448

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 20:57 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:12 Automation

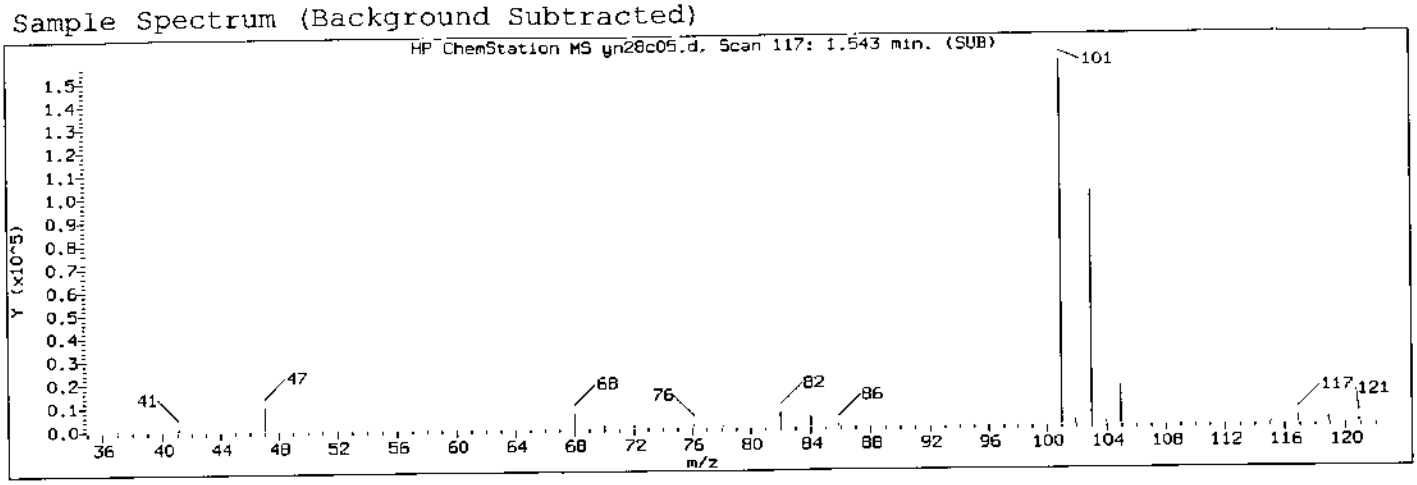
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 3		
Compound Name	: Chloromethane		
Scan Number	: 43		
Retention Time (minutes)	: 1.093		
Quant Ion	: 50.00		
Area	: 552238		
On-column Amount (ng)	: 57.5856		
Integration start scan	: 35	Integration stop scan:	67
Y at integration start	: 0	Y at integration end:	0

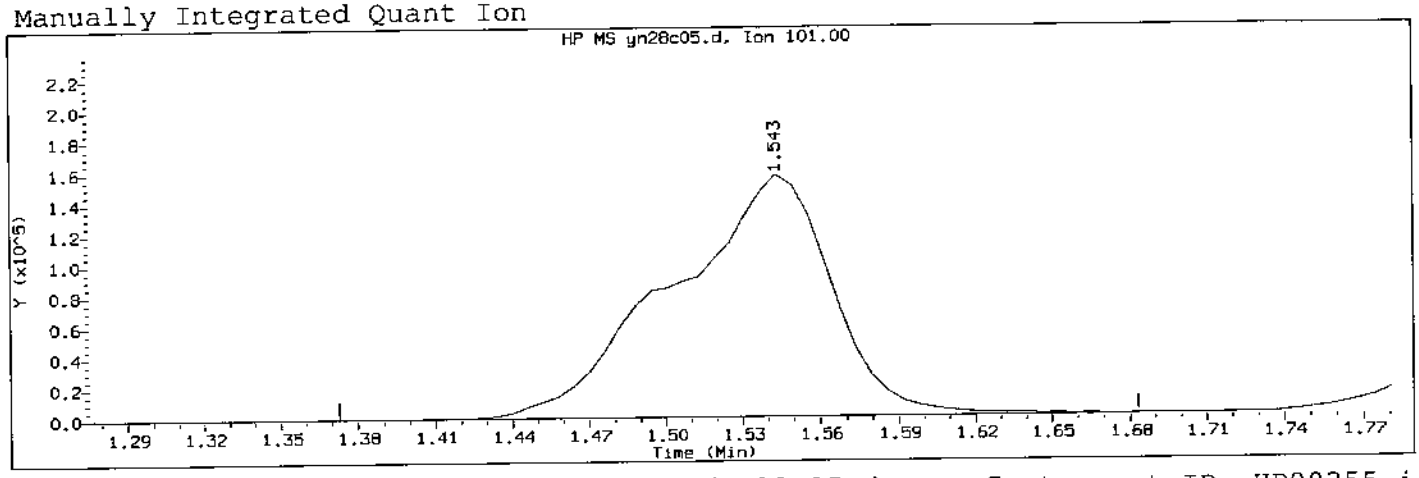
PCH03 8316

Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 20:57 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:13 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 117		
Retention Time (minutes)	: 1.543		
Quant Ion	: 101.00		
Area (flag)	: 673890M		
On-Column Amount (ng)	: 49.2319		
Integration start scan	: 88	Integration stop scan:	139
Y at integration start	: 0	Y at integration end:	0

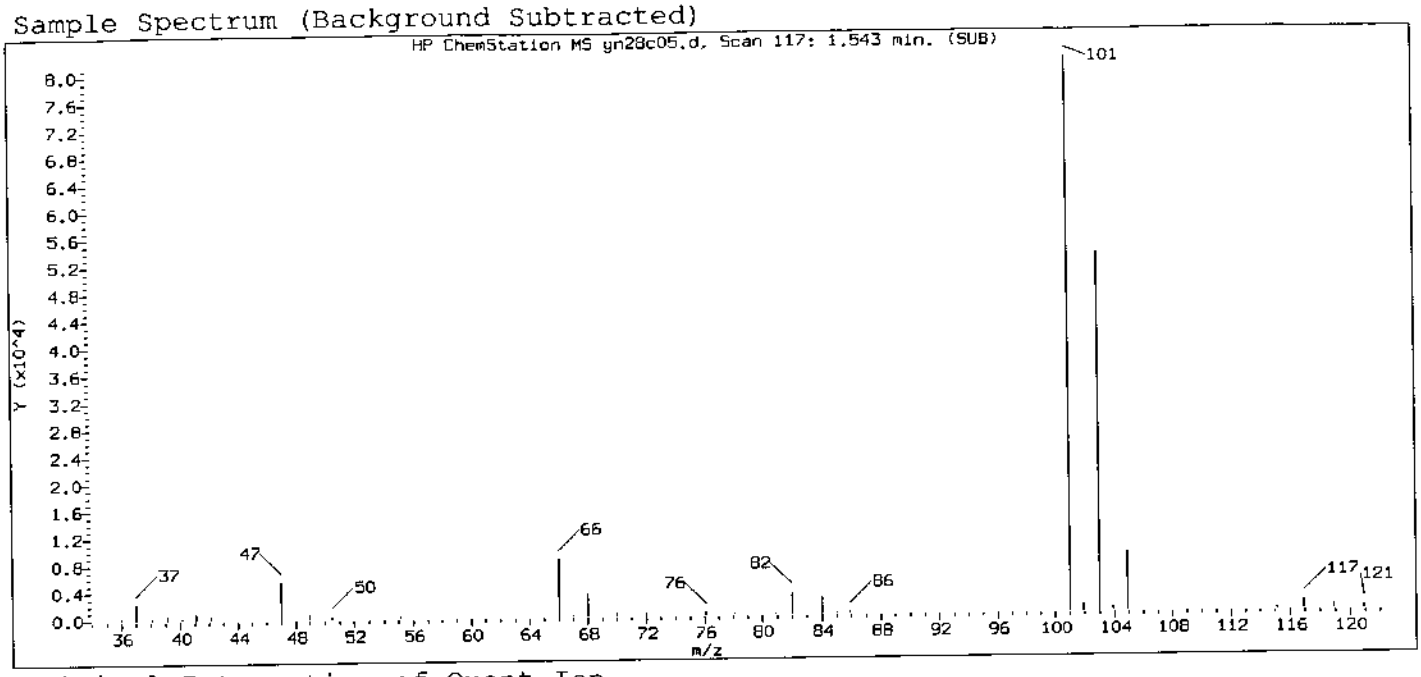
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:14. Target 3.5 esignature user ID: fav02618

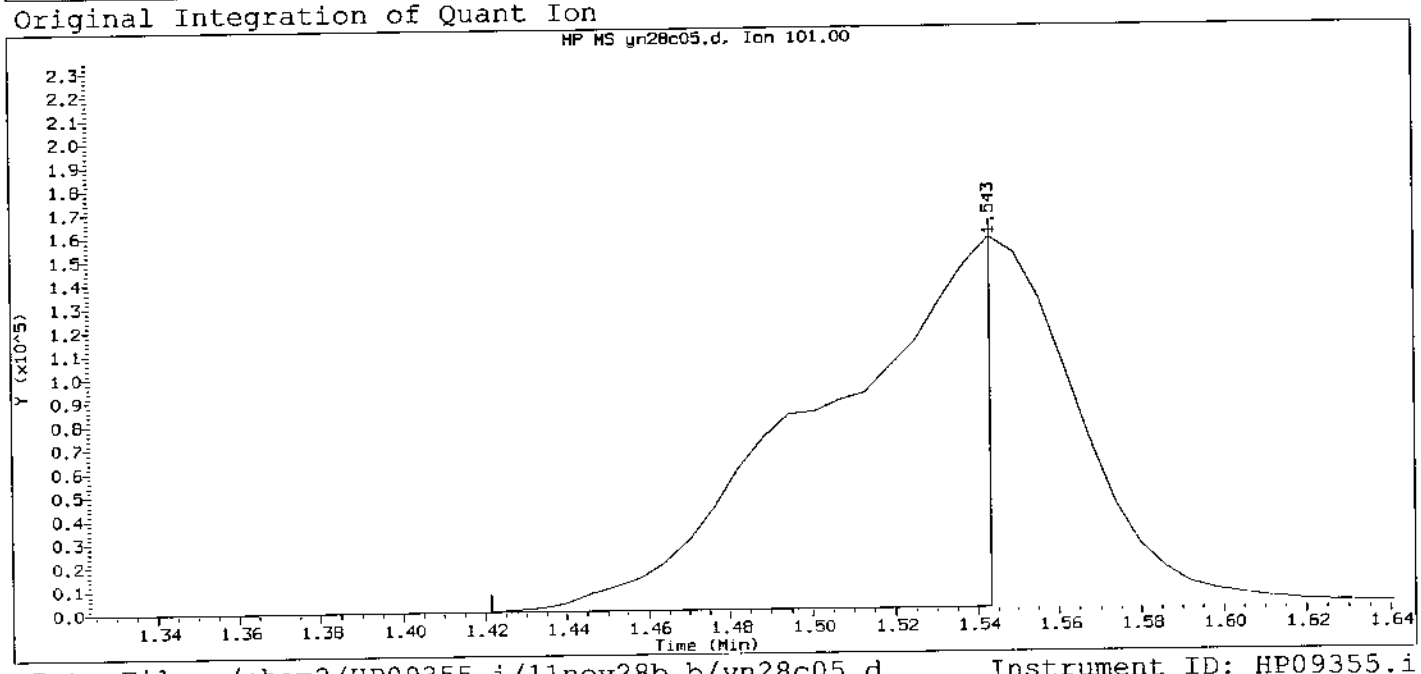
PCH09 8317

Secondary review performed and digitally signed by Christine M. Dulancy on 11/29/2011 at 20:36.
Parallax ID: cmd00448

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 20:57 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:12 Automation

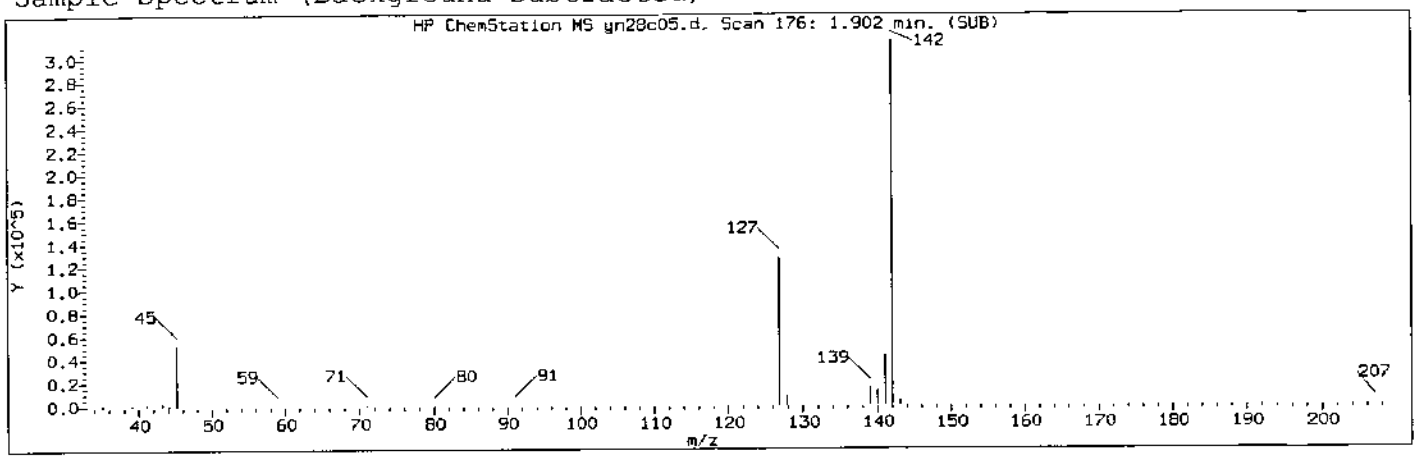
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 117		
Retention Time (minutes)	: 1.543		
Quant Ion	: 101.00		
Area	: 431753		
On-column Amount (ng)	: 31.5423		
Integration start scan	: 96	Integration stop scan:	116
Y at integration start	: 0	Y at integration end:	0

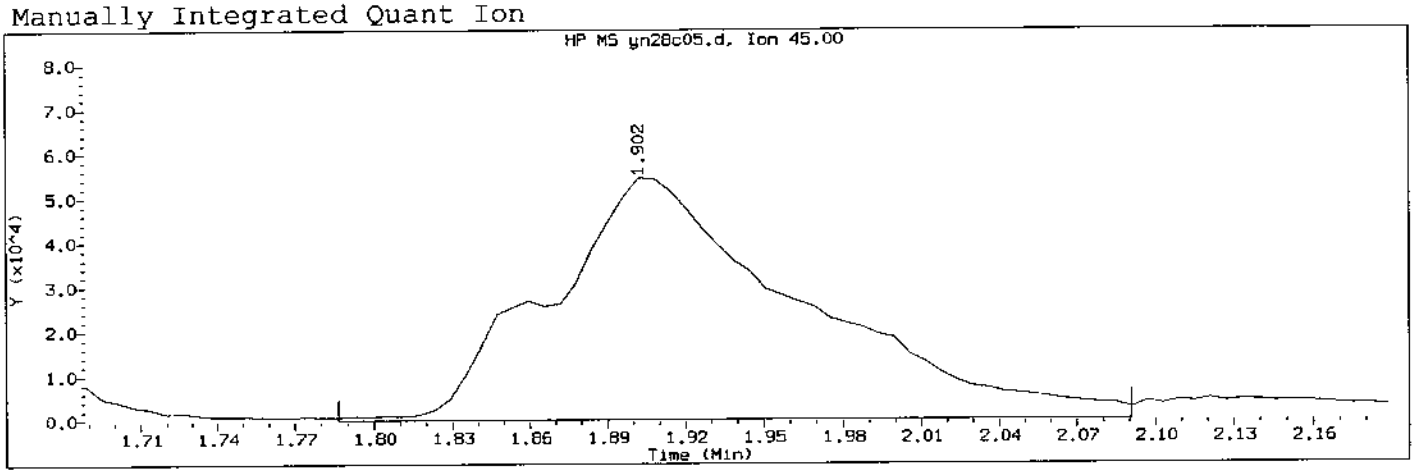
PCH09 8318

Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 20:57 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:13 fav02618

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 176		
Retention Time (minutes)	: 1.902		
Quant Ion	: 45.00		
Area (flag)	: 366908M		
On-Column Amount (ng)	: 311.8142		
Integration start scan	: 156	Integration stop scan:	206
Y at integration start	: 0	Y at integration end:	0

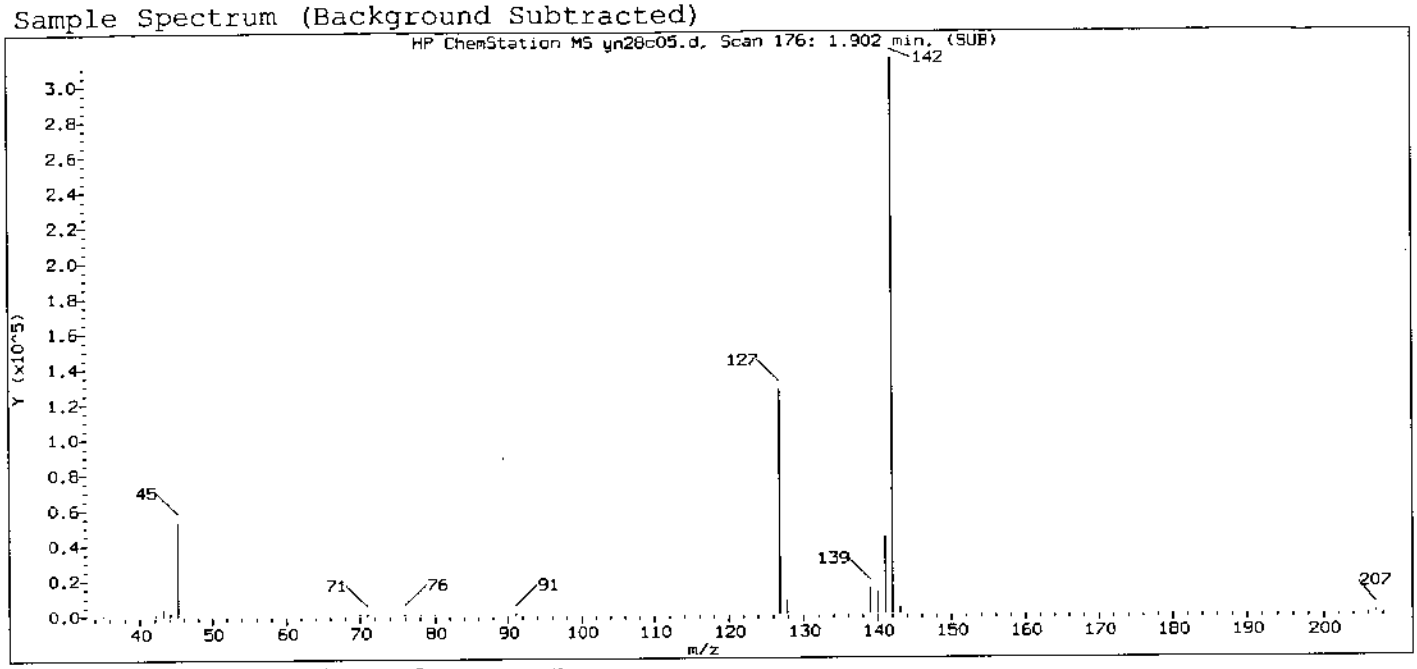
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:14. Target 3.5 esignature user ID: fav02618

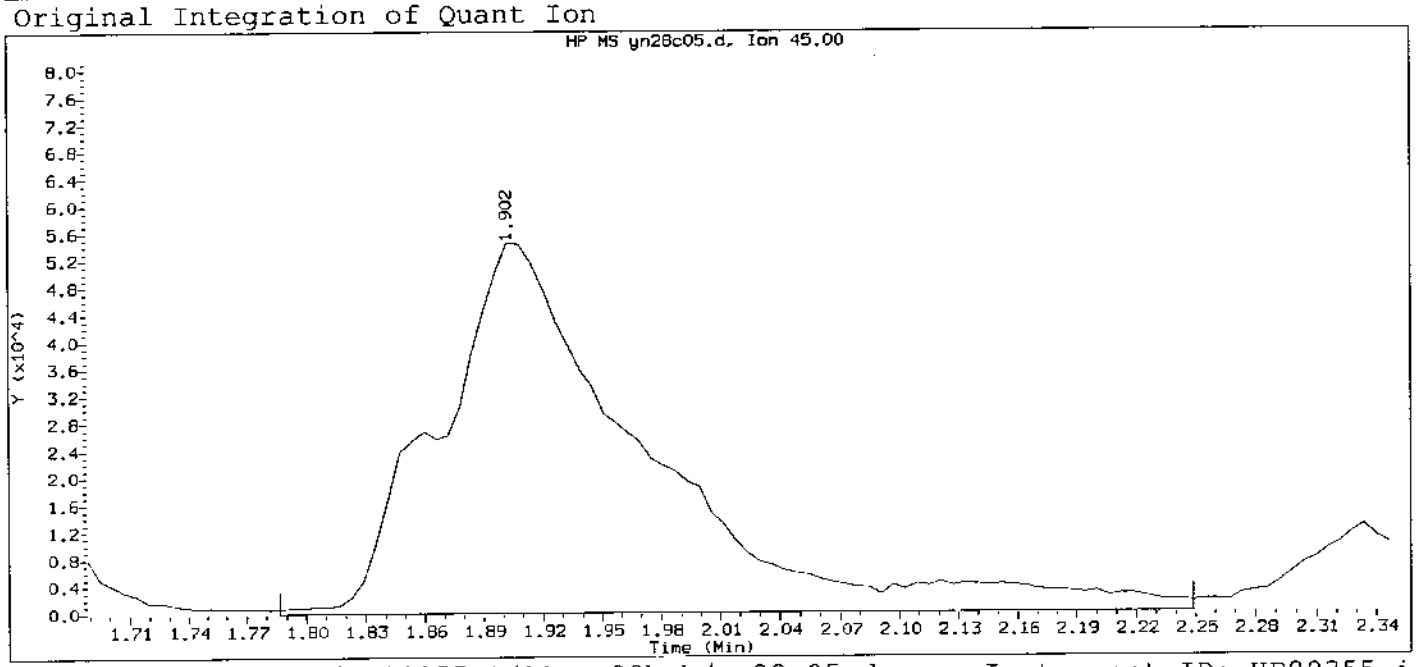
PCH85 8319

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36.
Parallax ID: cmd00448

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov28b.b/yn28c05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 20:57 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:12 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 176		
Retention Time (minutes)	: 1.902		
Quant Ion	: 45.00		
Area	: 397166		
On-column Amount (ng)	: 337.5279		
Integration start scan	: 156	Integration stop scan:	232
Y at integration start	: 0	Y at integration end:	0

PCH09 0328

Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:14.
Target 3.5 esignature user ID: fav02618

Raw QC Data

VBLKY09 Lancaster Laboratories Analysis Summary for GC/MS Volatiles VBLKY09

Data file: /chem2/HP09355.i/11nov28b.b/yn28b05.d
Data file Sample Info. Line: VBLKY09;VBLKY09;1;3;;;;;;;
Date, time and analyst ID of latest file update: 29-Nov-2011 20:51 fav02618

Injection date and time: **28-NOV-2011 21:17**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **8260W-4**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.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	2.145(-0.006)	216	65	355888 (-6)	250.00	
71) Fluorobenzene	4.262(0.000)	564	96	972843 (-3)	50.00	
106) Chlorobenzene-d5	7.444(-0.006)	1087	117	725944 (-4)	50.00	
136) 1,4-Dichlorobenzene-d4	9.434(0.006)	1414	152	443680 (-17)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.624(-0.003)	113	231366	48.038	96%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928(0.000)	102	59057	49.981	100%		77 - 113
93) Toluene-d8	(2)	5.887(0.001)	98	938998	49.035	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.533(0.000)	95	335031	46.309	93%		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) Dichlorodifluoromethane	(1)			Not Detected					2	5
3) Chloromethane	(1)			Not Detected					1	5
5) Vinyl Chloride	(1)			Not Detected					1	5
7) Bromomethane	(1)			Not Detected					1	5
8) Chloroethane	(1)			Not Detected					1	5
10) Trichlorofluoromethane	(1)			Not Detected					2	5
13) Ethyl Ether	(1)			Not Detected					2	5
15) Acrolein	(4)			Not Detected					40	100
16) 1,1-Dichloroethene	(1)			Not Detected					0.8	5
18) Freon 113	(1)			Not Detected					2	10
17) Acetone	(1)			Not Detected					6	20
20) Methyl Iodide	(1)			Not Detected					1	5
21) 2-Propanol	(4)			Not Detected					50	100
22) Carbon Disulfide	(1)			Not Detected					1	5
24) Allyl Chloride	(1)			Not Detected					1	5
25) Methyl Acetate	(1)			Not Detected					1	5
26) Methylene Chloride	(1)			Not Detected					2	5
29) t-Butyl Alcohol	(4)			Not Detected					10	80
30) Acrylonitrile	(1)			Not Detected					4	20
31) trans-1,2-Dichloroethene	(1)			Not Detected					0.8	5
32) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5	5
33) n-Hexane	(1)			Not Detected					2	5
45) 1,2-Dichloroethene (total)	(1)			Not Detected					0.8	5
34) 1,1-Dichloroethane	(1)			Not Detected					1	5
36) di-Isopropyl Ether	(1)			Not Detected					0.8	5
37) 2-Chloro-1,3-Butadiene	(1)			Not Detected					1	5
39) Ethyl t-Butyl Ether	(1)			Not Detected					0.8	5
40) cis-1,2-Dichloroethene	(1)			Not Detected					0.8	5
41) 2-Butanone	(1)			Not Detected					3	10
42) 2,2-Dichloropropane	(1)			Not Detected					1	5
43) Propionitrile	(4)			Not Detected					30	100

PCHAS 8322

Digitally signed by Frank A. Valla Jr. on 11/29/2011 at 20:51. Target 3.5 esignature user ID: fav02618

Data file: /chem2/HP09355.i/11nov28b.b/yn28b05.d
Data file Sample Info. Line: VBLKY09;VBLKY09;1;3;;;;;;;
Date, time and analyst ID of latest file update: 29-Nov-2011 20:51 fav02618

Injection date and time: **28-NOV-2011 21:17**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **8260W-4**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.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 (in sample)
46) Methacrylonitrile	(1)				Not Detected					10	50
47) Bromochloromethane	(1)				Not Detected					1	5
48) Tetrahydrofuran	(4)				Not Detected					4	10
50) Chloroform	(1)				Not Detected					0.8	5
53) 1,1,1-Trichloroethane	(1)				Not Detected					0.8	5
56) Cyclohexane	(1)				Not Detected					2	5
57) 1,1-Dichloropropene	(1)				Not Detected					1	5
58) Carbon Tetrachloride	(1)				Not Detected					1	5
59) Isobutyl Alcohol	(4)				Not Detected					100	250
63) Benzene	(1)				Not Detected					0.5	5
65) 1,2-Dichloroethane	(1)				Not Detected					1	5
69) t-Amyl Methyl Ether	(1)				Not Detected					0.8	5
72) n-Heptane	(1)				Not Detected					2	5
73) n-Butanol	(4)				Not Detected					100	250
74) Trichloroethene	(1)				Not Detected					1	5
77) 1,2-Dichloropropane	(1)				Not Detected					1	5
76) Methylcyclohexane	(1)				Not Detected					1	5
80) Methyl Methacrylate	(1)				Not Detected					1	5
78) Dibromomethane	(1)				Not Detected					1	5
79) 1,4-Dioxane	(4)				Not Detected					70	250
83) Bromodichloromethane	(1)				Not Detected					1	5
85) 2-Nitropropane	(1)				Not Detected					2	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
94) Toluene	(2)				Not Detected					0.7	5
95) trans-1,3-Dichloropropene	(2)				Not Detected					1	5
96) Ethyl Methacrylate	(2)				Not Detected					1	5
97) 1,1,2-Trichloroethane	(2)				Not Detected					0.8	5
98) Tetrachloroethene	(2)				Not Detected					0.8	5
99) 1,3-Dichloropropane	(2)				Not Detected					1	5
101) 2-Hexanone	(2)				Not Detected					3	10
102) Dibromochloromethane	(2)				Not Detected					1	5
104) 1,2-Dibromoethane	(2)				Not Detected					1	5
107) Chlorobenzene	(2)				Not Detected					0.8	5
108) 1,1,1,2-Tetrachloroethane	(2)				Not Detected					1	5
109) Ethylbenzene	(2)				Not Detected					0.8	5
110) m+p-Xylene	(2)				Not Detected					0.8	5
112) Xylene (Total)	(2)				Not Detected					0.8	5
113) o-Xylene	(2)				Not Detected					0.8	5
114) Styrene	(2)				Not Detected					1	5
115) Bromoform	(2)				Not Detected					1	5
116) Isopropylbenzene	(2)				Not Detected					1	5
118) Cyclohexanone	(4)				Not Detected					55	250
122) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					1	5
124) trans-1,4-Dichloro-2-Butene	(3)				Not Detected					15	50
121) Bromobenzene	(3)				Not Detected					1	5
123) 1,2,3-Trichloropropane	(3)				Not Detected					1	5
125) n-Propylbenzene	(3)				Not Detected					1	5
126) 2-Chlorotoluene	(3)				Not Detected					1	5
127) 1,3,5-Trimethylbenzene	(3)				Not Detected					1	5
128) 4-Chlorotoluene	(3)				Not Detected					1	5
130) tert-Butylbenzene	(3)				Not Detected					1	5
131) Pentachloroethane	(3)				Not Detected					1	5

PCH09 0023

Digitally signed by Frank A. Valla Jr. on 11/29/2011 at 20:51. Target 3.5 esignature user ID: fav02618

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

VBLKY09

Data file: /chem2/HP09355.i/11nov28b.b/yn28b05.d
Data file Sample Info. Line: VBLKY09;VBLKY09;1;3;;;;;;;
Date, time and analyst ID of latest file update: 29-Nov-2011 20:51 fav02618

Injection date and time: **28-NOV-2011 21:17**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **8260W-4**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.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

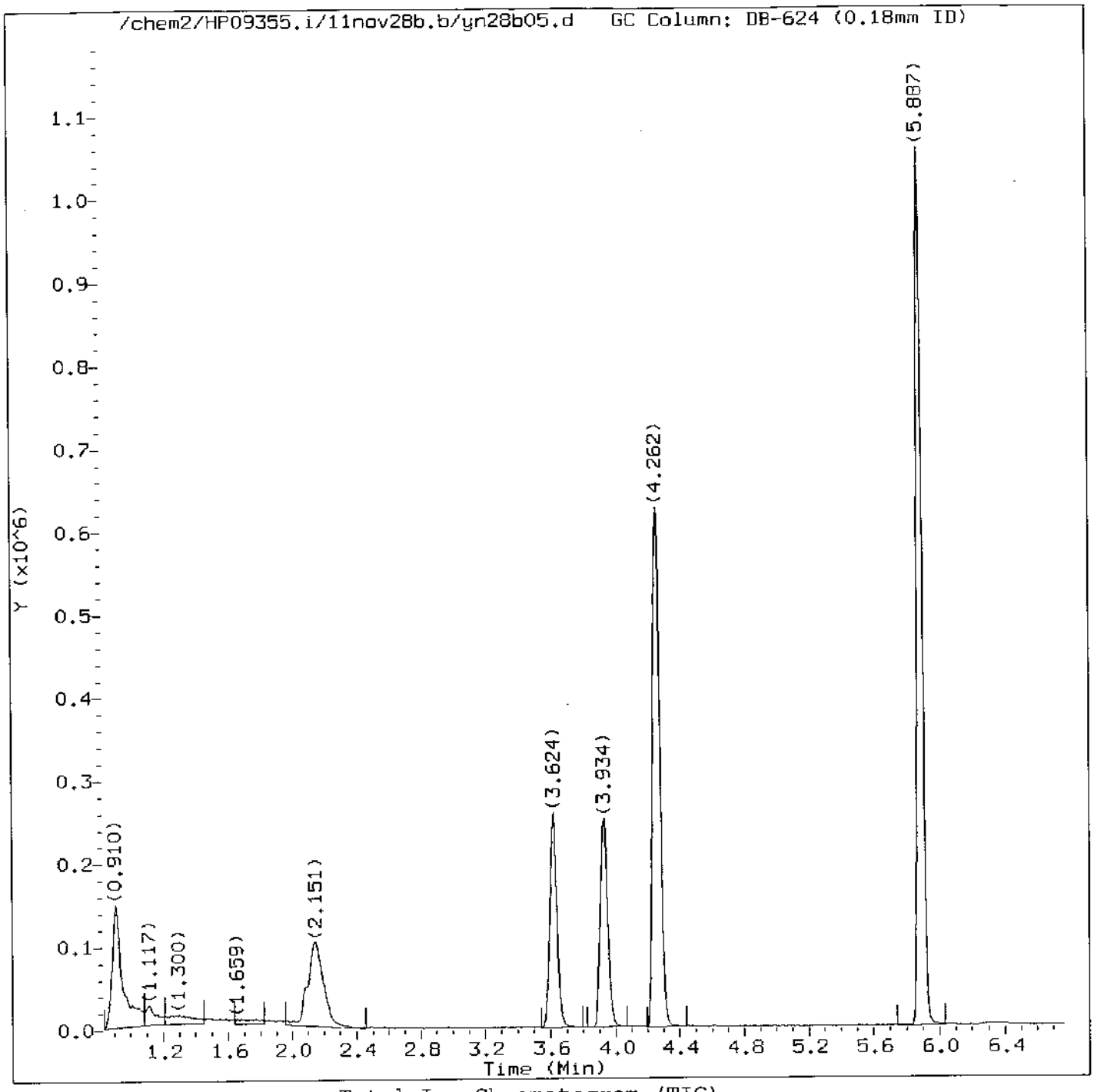
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
132) 1,2,4-Trimethylbenzene	(3)				Not Detected					1	5
133) sec-Butylbenzene	(3)				Not Detected					1	5
135) p-Isopropyltoluene	(3)				Not Detected					1	5
134) 1,3-Dichlorobenzene	(3)				Not Detected					1	5
138) 1,4-Dichlorobenzene	(3)				Not Detected					1	5
139) 1,2,3-Trimethylbenzene	(3)				Not Detected					1	5
141) Benzyl Chloride	(3)				Not Detected					1	5
142) 1,3-Diethylbenzene	(3)				Not Detected					1	5
143) 1,4-Diethylbenzene	(3)				Not Detected					1	5
145) n-Butylbenzene	(3)				Not Detected					1	5
144) 1,2-Dichlorobenzene	(3)				Not Detected					1	5
146) 1,2-Diethylbenzene	(3)				Not Detected					2	5
148) 1,2-Dibromo-3-Chloropropane	(3)				Not Detected					1	5
149) 1,3,5-Trichlorobenzene	(3)				Not Detected					1	5
150) 1,2,4-Trichlorobenzene	(3)				Not Detected					2	5
151) Hexachlorobutadiene	(3)				Not Detected					1	5
152) Naphthalene	(3)				Not Detected					1	5
153) 1,2,3-Trichlorobenzene	(3)				Not Detected					2	5
154) 2-Methylnaphthalene	(3)				Not Detected						

Total number of targets = 104

Digitally signed by Frank A. Valla Jr. on 11/29/2011 at 20:51. Target 3.5 esignature user ID: fav02618

FCH09 0324

Secondary review performed and digitally signed by Christine M. Dulaney on 11/30/2011 at 11:22. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

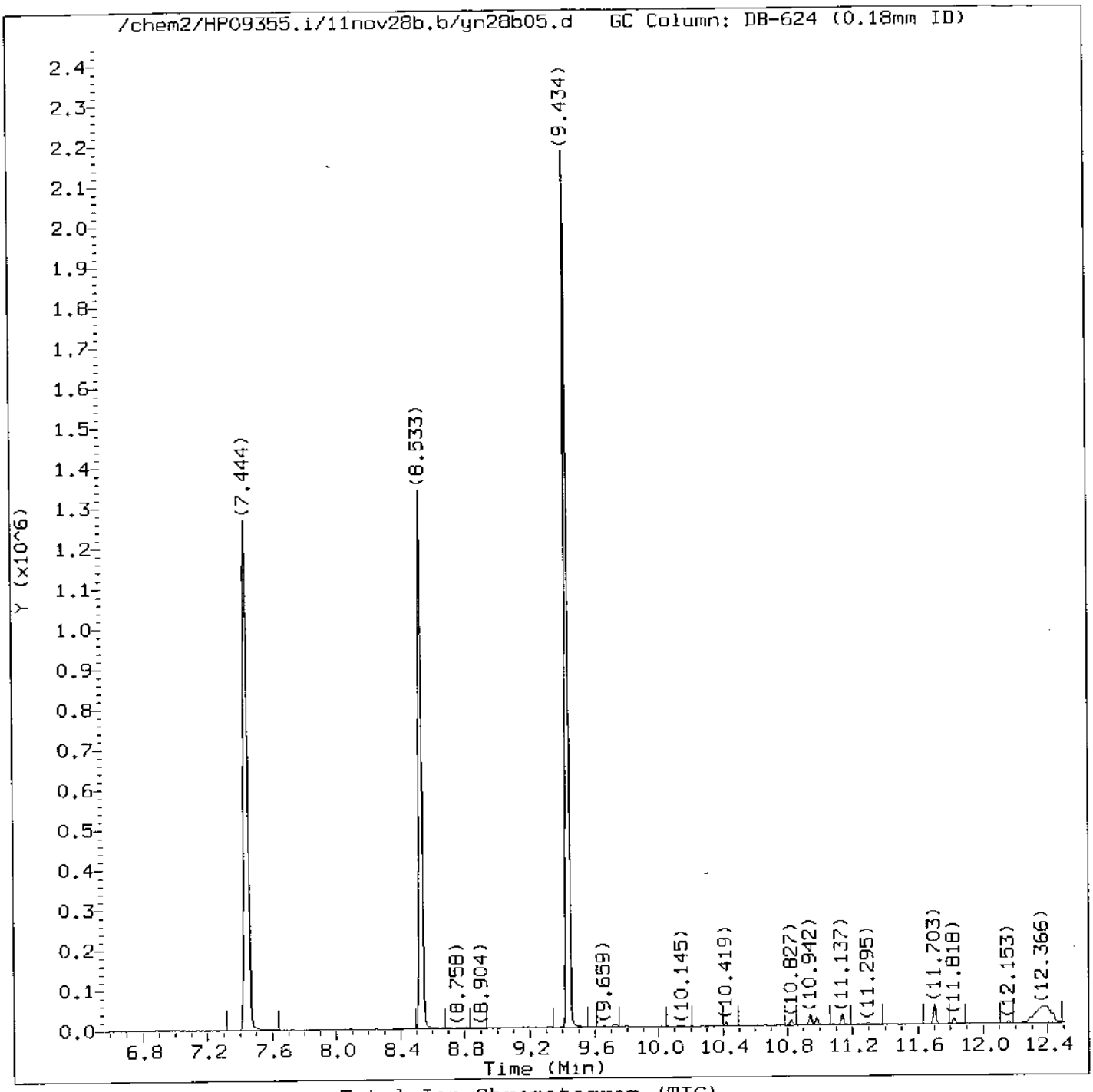
Data File: /chem2/HP09355.i/11nov28b.b/yn28b05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:17 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 20:51 fav02618

Sample Name: VBLKY09 Lab Sample ID: VBLKY09

PCH09 8325

Digitally signed by Frank A. Valla Jr.
on 11/29/2011 at 20:51.
Target 3.5 esignature user ID: fav02618



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28b05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:17 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 20:51 fav02618

Sample Name: VBLKY09 Lab Sample ID: VBLKY09

PCH89 #326

Digitally signed by Frank A. Valla Jr.
on 11/29/2011 at 20:51.
Target 3.5 esignature user ID: fav02618

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28b05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:17 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 20:51 fav02618

Sample Name: VBLKY09 Lab Sample ID: VBLKY09

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
28)*t-Butyl Alcohol-d10	(4)	2.145	65	355888	250.000
52)$Dibromofluoromethane	(1)	3.624	113	231366	48.038
62)$1,2-Dichloroethane-d4	(1)	3.928	102	59057	49.981
71)*Fluorobenzene	(1)	4.262	96	972843	50.000
93)$Toluene-d8	(2)	5.887	98	938998	49.035
106)*Chlorobenzene-d5	(2)	7.444	117	725944	50.000
119)$4-Bromofluorobenzene	(2)	8.533	95	335031	46.309
136)*1,4-Dichlorobenzene-d4	(3)	9.434	152	443680	50.000

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

PCH09 8327

Digitally signed by Frank A. Valla Jr.
on 11/29/2011 at 20:51.
Target 3.5 esignature user ID: fav02618

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT01MS

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477562

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s53.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/28/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	20	
71-43-2	Benzene	22	
108-88-3	Toluene	22	
100-41-4	Ethylbenzene	21	
179601-23-1	m+p Xylene	42	
1330-20-7	Xylene (Total)	62	
95-47-6	o-Xylene	20	

XXXXXMS

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6477562MS

Data file: /chem2/HP09355.i/11nov28b.b/yn28s53.d
Injection date and time: **28-NOV-2011 23:13**
Data file Sample Info. Line: XXXXXMS;6477562MS;1;3;MS;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262(0.000)	564	96	949318 (-5)	50.00	
106) Chlorobenzene-d5	7.444(-0.006)	1087	117	705487 (-6)	50.00	
136) 1,4-Dichlorobenzene-d4	9.439(0.000)	1415	152	469892 (-12)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.617(-0.001)	113	227855	48.481	97%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.928(0.000)	102	59457	51.566	103%		77 - 113
93) Toluene-d8	(2)	5.887(0.001)	98	937154	50.358	101%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.533(0.000)	95	343515	48.858	98%		78 - 113

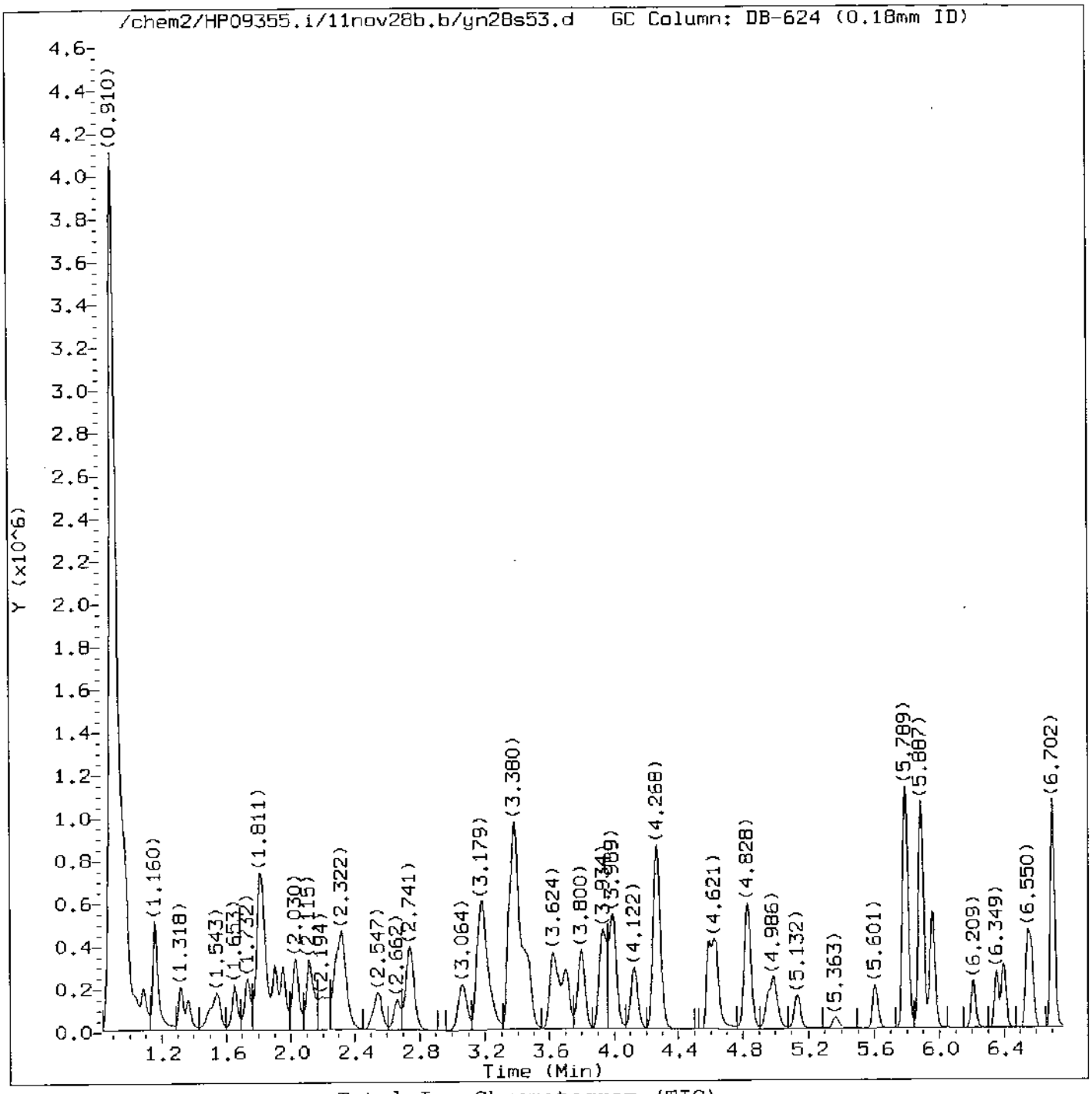
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)	2.340(-0.002)	73	357555	20.456	20.46			0.5	5
63) Benzene	(1)	3.988(0.000)	78	473440	21.982	21.98			0.5	5
94) Toluene	(2)	5.954(0.000)	92	302656	21.777	21.78			0.7	5
109) Ethylbenzene	(2)	7.602(0.000)	91	580969	21.301	21.30			0.8	5
110) m+p-Xylene	(2)	7.724(0.000)	106	482746	41.999	42.00			0.8	5
112) Xylene (Total)	(2)		106	712516	62.023	62.02			0.8	5
113) o-Xylene	(2)	8.083(0.000)	106	229770	20.024	20.02			0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:27. Target 3.5 esignature user ID: nrr01826

PCN09 8329

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

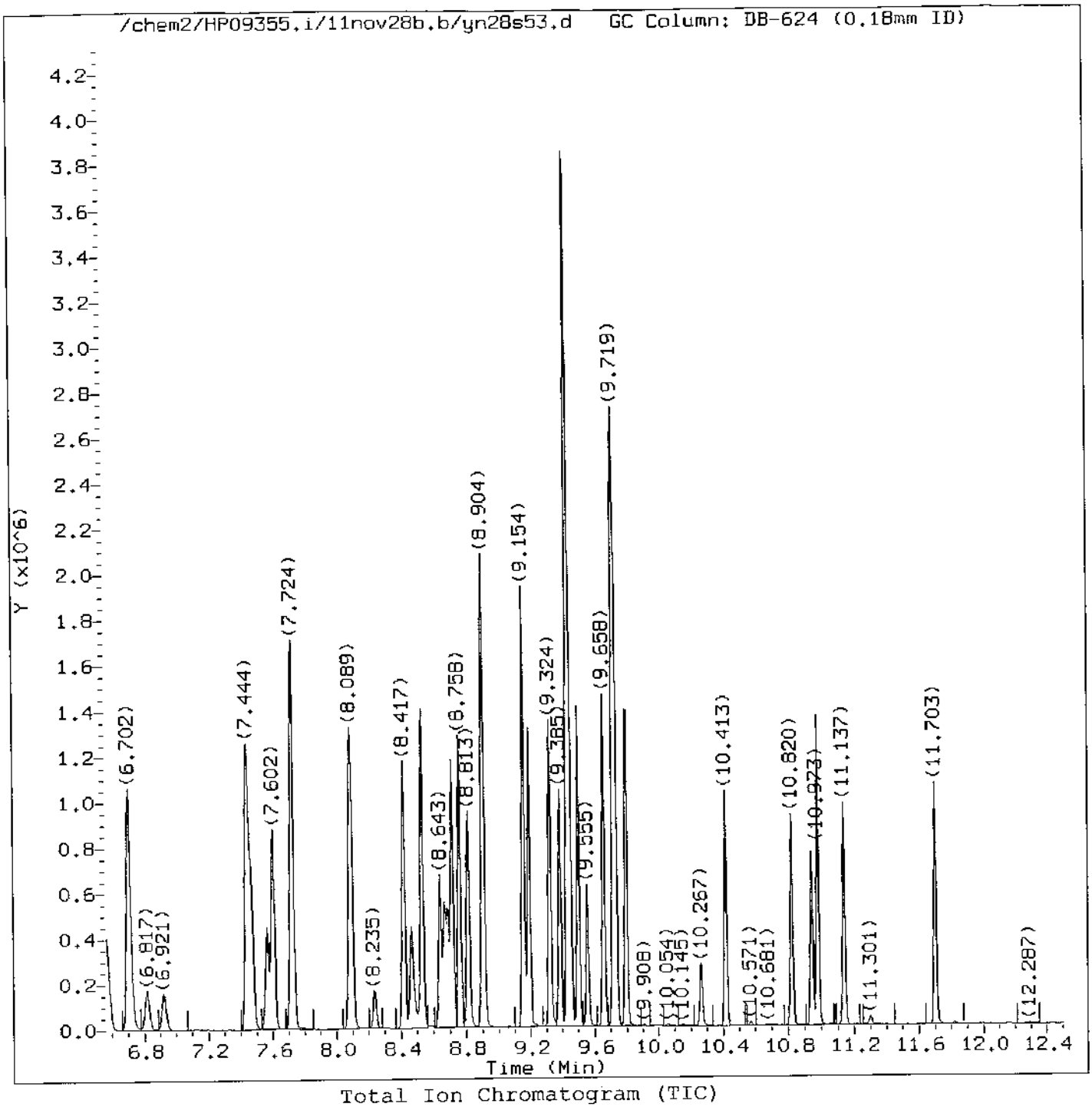
Data File: /chem2/HP09355.i/11nov28b.b/yn28s53.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 23:13 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Sample Name: XXXXXMS Lab Sample ID: 6477562MS

PCH09 8338

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:27.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s53.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 23:13 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Sample Name: XXXXXMS Lab Sample ID: 6477562MS

PCH89 8331

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:27.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s53.d
Injection date and time: 28-NOV-2011 23:13

Instrument ID: HP09355.i
Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Sublist used: 5844

Sample Name: XXXXXMS

Lab Sample ID: 6477562MS

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
32) Methyl Tertiary Butyl Ether	(1)	2.340	73	357555	20.456
52)$Dibromofluoromethane	(1)	3.617	113	227855	48.481
62)$1,2-Dichloroethane-d4	(1)	3.928	102	59457	51.566
63) Benzene	(1)	3.989	78	473440	21.982
71)*Fluorobenzene	(1)	4.262	96	949318	50.000
93)$Toluene-d8	(2)	5.887	98	937154	50.358
94) Toluene	(2)	5.954	92	302656	21.777
106)*Chlorobenzene-d5	(2)	7.444	117	705487	50.000
109) Ethylbenzene	(2)	7.602	91	580969	21.301
110) m+p-Xylene	(2)	7.724	106	482746	41.999
113) o-Xylene	(2)	8.083	106	229770	20.024
112) Xylene (Total)	(2)		106	712516	62.023
119)$4-Bromofluorobenzene	(2)	8.533	95	343515	48.858
136)*1,4-Dichlorobenzene-d4	(3)	9.439	152	469892	50.000

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

FCH09 8332

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:27.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT01MSD

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477563

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28s54.d

Level: (low/med) LOW Date Received: 11/19/11

Moisture: not dec. _____ Date Analyzed: 11/28/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
1634-04-4	Methyl Tertiary Butyl Ether	20	
71-43-2	Benzene	21	
108-88-3	Toluene	21	
100-41-4	Ethylbenzene	20	
179601-23-1	m+p-Xylene	40	
1330-20-7	Xylene (Total)	59	
95-47-6	o-Xylene	19	

XXXXXMSD

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6477563MSD

Data file: /chem2/HP09355.i/11nov28b.b/yn28s54.d
Injection date and time: **28-NOV-2011 23:33**
Data file Sample Info. Line: XXXXXMSD;6477563MSD;1;3;MSD;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **5844**
Calibration date and time (Last Method Edit): 28-NOV-2011 22:41
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.d**

Bottle Code: **38A** 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
71) Fluorobenzene	4.262(0.000)	564	96	1014483 (2)	50.00	
106) Chlorobenzene-d5	7.444(-0.006)	1087	117	758613 (1)	50.00	
136) 1,4-Dichlorobenzene-d4	9.440(0.000)	1415	152	500670 (-6)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.624(-0.003)	113	245254	48.831	98%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.934(-0.001)	102	63212	51.301	103%		77 - 113
93) Toluene-d8	(2)	5.887(0.001)	98	1008384	50.391	101%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.533(0.000)	95	367351	48.589	97%		78 - 113

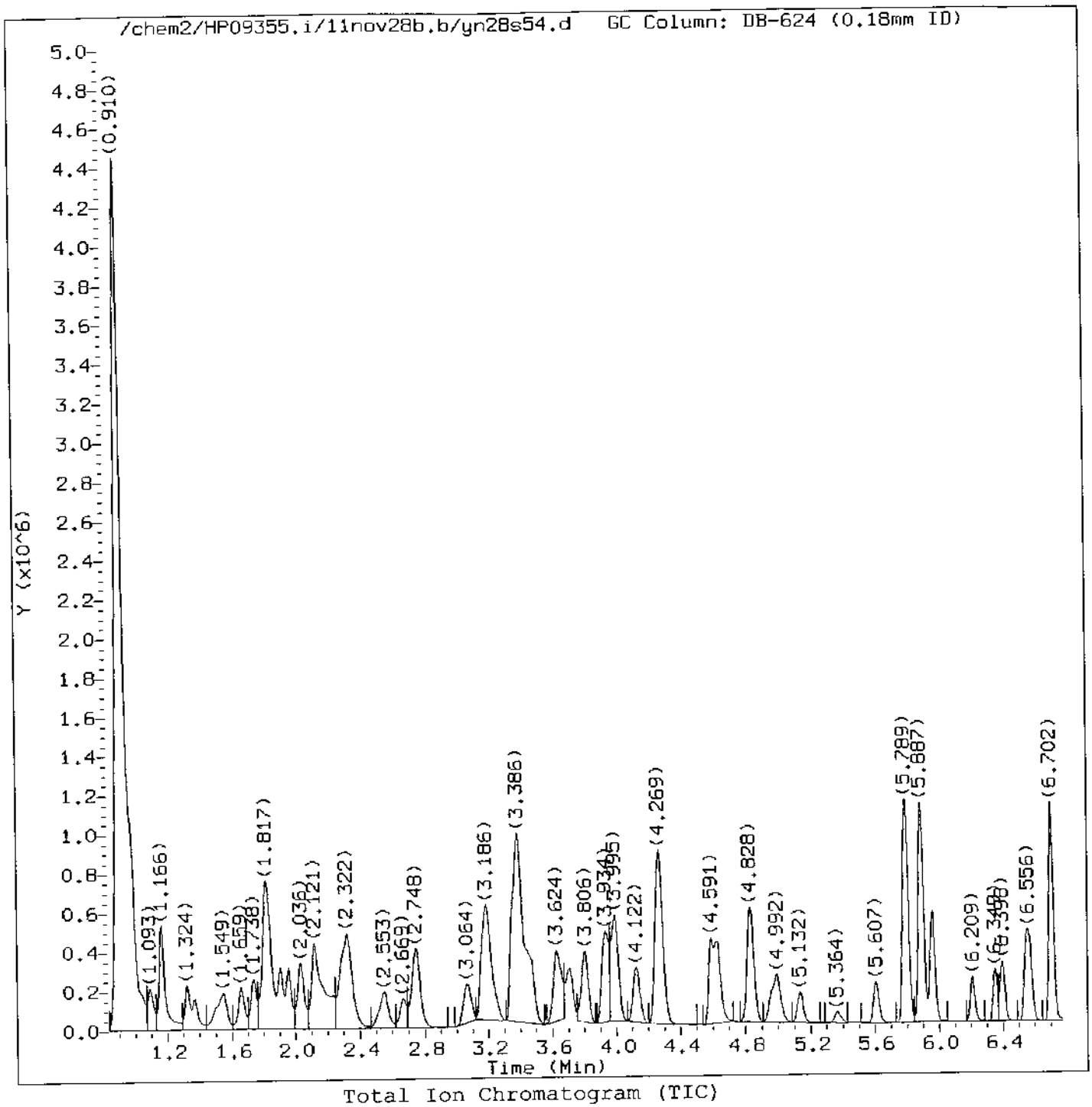
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
32) Methyl Tertiary Butyl Ether	(1)	2.334(-0.001)	73	377562	20.213	20.21			0.5	5
63) Benzene	(1)	3.995(-0.001)	78	489920	21.286	21.29			0.5	5
94) Toluene	(2)	5.960(-0.000)	92	313427	20.973	20.97			0.7	5
109) Ethylbenzene	(2)	7.602(0.000)	91	600877	20.488	20.49			0.8	5
110) m+p-Xylene	(2)	7.724(0.000)	106	493569	39.934	39.93			0.8	5
112) Xylene (Total)	(2)		106	732080	59.264	59.26			0.8	5
113) o-Xylene	(2)	8.083(0.000)	106	238511	19.330	19.33			0.8	5

Total number of targets = 7

Digitally signed by Nicholas R. Rossi on 11/29/2011 at 13:27. Target 3.5 esignature user ID: nrr01826

FCH09 0304

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00448



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s54.d
Injection date and time: 28-NOV-2011 23:33

Instrument ID: HP09355.i
Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m
Calibration date and time: 28-NOV-2011 22:41

Sublist used: 5844

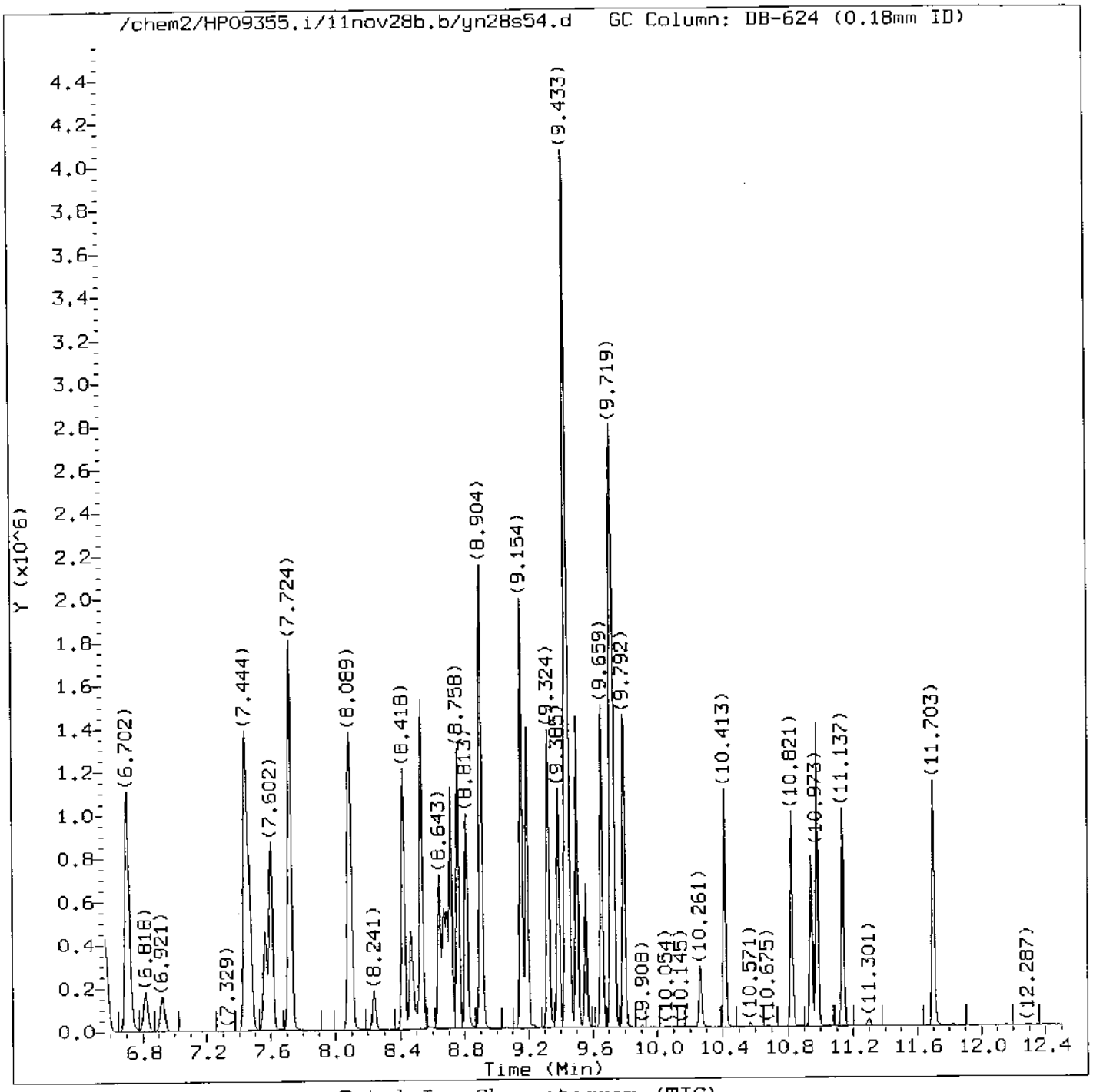
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Sample Name: XXXXXMSD

Lab Sample ID: 6477563MSD

PCH09 8335

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:27.
Target 3.5 esignature user ID: nrr01826



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s54.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 23:33 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Sample Name: XXXXXMSD Lab Sample ID: 6477563MSD

PCH89 8336

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on 11/29/2011 at 13:27.
Target 3.5 esignature user ID: nrr01826

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28s54.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 23:33 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 5844
Calibration date and time: 28-NOV-2011 22:41
Date, time and analyst ID of latest file update: 29-Nov-2011 13:26 nrr01826

Sample Name: XXXXXMSD Lab Sample ID: 6477563MSD

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
32) Methyl Tertiary Butyl Ether	(1)	2.334	73	377562	20.213
52)$Dibromofluoromethane	(1)	3.624	113	245254	48.831
62)$1,2-Dichloroethane-d4	(1)	3.934	102	63212	51.301
63) Benzene	(1)	3.995	78	489920	21.286
71)*Fluorobenzene	(1)	4.262	96	1014483	50.000
93)$Toluene-d8	(2)	5.887	98	1008384	50.391
94) Toluene	(2)	5.960	92	313427	20.973
106)*Chlorobenzene-d5	(2)	7.444	117	758613	50.000
109) Ethylbenzene	(2)	7.602	91	600877	20.488
110) m+p-Xylene	(2)	7.724	106	493569	39.934
113) o-Xylene	(2)	8.083	106	238511	19.330
112) Xylene (Total)	(2)		106	732080	59.264
119)$4-Bromofluorobenzene	(2)	8.533	95	367351	48.589
136)*1,4-Dichlorobenzene-d4	(3)	9.440	152	500670	50.000

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

PCH09 8337

Digitally signed by Nicholas R. Rossi
on 11/29/2011 at 13:27.
Target 3.5 esignature user ID: nrr01826

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSY09

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCSY09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28l05.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 11/28/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	18	
74-87-3	Chloromethane	20	
75-01-4	Vinyl Chloride	20	
74-83-9	Bromomethane	20	
75-00-3	Chloroethane	22	
75-69-4	Trichlorofluoromethane	22	
60-29-7	Ethyl Ether	26	
107-02-8	Acrolein	160	
75-35-4	1,1-Dichloroethene	23	
67-64-1	Acetone	190	
76-13-1	Freon 113	23	
74-88-4	Methyl Iodide	21	
67-63-0	2-Propanol	190	
75-15-0	Carbon Disulfide	21	
107-05-1	Allyl Chloride	24	
79-20-9	Methyl Acetate	27	
75-09-2	Methylene Chloride	23	
75-65-0	t-Butyl Alcohol	230	
107-13-1	Acrylonitrile	98	
156-60-5	trans-1,2-Dichloroethene	20	
1634-04-4	Methyl Tertiary Butyl Ether	20	
110-54-3	n-Hexane	19	
75-34-3	1,1-Dichloroethane	20	
108-20-3	di-Isopropyl Ether	20	
126-99-8	2-Chloro-1,3-Butadiene	19	
637-92-3	Ethyl t-Butyl Ether	20	
156-59-2	cis-1,2-Dichloroethene	21	
78-93-3	2-Butanone	150	
594-20-7	2,2-Dichloropropane	19	
107-12-0	Propionitrile	160	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSY09

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCSY09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28l05.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 11/28/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
540-59-0	1,2-Dichloroethene (total)	41	
126-98-7	Methacrylonitrile	160	
74-97-5	Bromochloromethane	20	
109-99-9	Tetrahydrofuran	100	
67-66-3	Chloroform	20	
71-55-6	1,1,1-Trichloroethane	19	
110-82-7	Cyclohexane	20	
563-58-6	1,1-Dichloropropene	20	
56-23-5	Carbon Tetrachloride	19	
78-83-1	Isobutyl Alcohol	500	
71-43-2	Benzene	21	
107-06-2	1,2-Dichloroethane	19	
994-05-8	t-Amyl Methyl Ether	20	
142-82-5	n-Heptane	18	
71-36-3	n-Butanol	930	
79-01-6	Trichloroethene	20	
108-87-2	Methylcyclohexane	21	
78-87-5	1,2-Dichloropropane	20	
74-95-3	Dibromomethane	20	
123-91-1	1,4-Dioxane	430	
80-62-6	Methyl Methacrylate	18	
75-27-4	Bromodichloromethane	19	
79-46-9	2-Nitropropane	18	
110-75-8	2-Chloroethyl Vinyl Ether	19	
10061-01-5	cis-1,3-Dichloropropene	19	
108-10-1	4-Methyl-2-Pentanone	100	
108-88-3	Toluene	20	
10061-02-6	trans-1,3-Dichloropropene	19	
97-63-2	Ethyl Methacrylate	18	
79-00-5	1,1,2-Trichloroethane	21	

PCH89 8339

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSY09

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCSY09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28105.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 11/28/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	19	
142-28-9	1,3-Dichloropropane	20	
591-78-6	2-Hexanone	99	
124-48-1	Dibromochloromethane	20	
106-93-4	1,2-Dibromoethane	20	
108-90-7	Chlorobenzene	20	
630-20-6	1,1,1,2-Tetrachloroethane	19	
100-41-4	Ethylbenzene	20	
179601-23-1	m+p-Xylene	38	
1330-20-7	Xylene (Total)	57	
95-47-6	o-Xylene	19	
100-42-5	Styrene	18	
75-25-2	Bromoform	18	
98-82-8	Isopropylbenzene	20	
108-94-1	Cyclohexanone	400	
108-86-1	Bromobenzene	21	
79-34-5	1,1,2,2-Tetrachloroethane	21	
96-18-4	1,2,3-Trichloropropane	21	
110-57-6	trans-1,4-Dichloro-2-Butene	86	
103-65-1	n-Propylbenzene	22	
95-49-8	2-Chlorotoluene	21	
108-67-8	1,3,5-Trimethylbenzene	21	
106-43-4	4-Chlorotoluene	20	
98-06-6	tert-Butylbenzene	20	
76-01-7	Pentachloroethane	20	
95-63-6	1,2,4-Trimethylbenzene	21	
135-98-8	sec-Butylbenzene	21	
541-73-1	1,3-Dichlorobenzene	21	
99-87-6	p-Isopropyltoluene	21	
106-46-7	1,4-Dichlorobenzene	21	

PCH89 0348

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSY09

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCSY09

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/11nov28b.b/yn28105.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 11/28/11

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
526-73-8	1,2,3-Trimethylbenzene	21	
100-44-7	Benzyl Chloride	20	
141-93-5	1,3-Diethylbenzene	21	
105-05-5	1,4-Diethylbenzene	20	
95-50-1	1,2-Dichlorobenzene	21	
104-51-8	n-Butylbenzene	20	
135-01-3	1,2-Diethylbenzene	20	
96-12-8	1,2-Dibromo-3-Chloropropane	18	
108-70-3	1,3,5-Trichlorobenzene	20	
120-82-1	1,2,4-Trichlorobenzene	19	
87-68-3	Hexachlorobutadiene	18	
91-20-3	Naphthalene	19	
87-61-6	1,2,3-Trichlorobenzene	18	
91-57-6	2-Methylnaphthalene	16	
25340-17-4	Diethylbenzene (total)	62	

PCH09 0341

LCSY09 Lancaster Laboratories Analysis Summary for GC/MS Volatiles LCSY09

Data file: /chem2/HP09355.i/11nov28b.b/yn28105.d
Data file Sample Info. Line: LCSY09;LCSY09;1;3;LCS;;;;yn28b05;;
Date, time and analyst ID of latest file update: 28-Nov-2011 21:54 fav02618

Injection date and time: **28-NOV-2011 21:38**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **8260W-4**
Calibration date and time (Last Method Edit): 28-NOV-2011 21:12
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.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	2.145(-0.006)	216	65	347889 (-8)	250.00	
71) Fluorobenzene	4.263(0.000)	564	96	1002995 (1)	50.00	
106) Chlorobenzene-d5	7.444(-0.006)	1087	117	753408 (0)	50.00	
136) 1,4-Dichlorobenzene-d4	9.440(0.000)	1415	152	491830 (-8)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.618(-0.001)	113	243929	49.124	98%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	3.934(-0.001)	102	63067	51.770	104%		77 - 113
93) Toluene-d8	(2)	5.887(0.001)	98	998000	50.216	100%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.533(0.000)	95	366601	48.825	98%		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)
2) Dichlorodifluoromethane	(1)	1.044(-0.001)	85	189598	18.035	18.03			2	5
3) Chloromethane	(1)	1.087(0.001)	50	188554	19.560	19.56			1	5
5) Vinyl Chloride	(1)	1.160(0.000)	62	195225	20.040	20.04			1	5
7) Bromomethane	(1)	1.324(0.000)	94	150049	20.301	20.30			1	5
8) Chloroethane	(1)	1.373(0.000)	64	122603	22.005	22.00			1	5
10) Trichlorofluoromethane	(1)	1.537(0.001)	101	307602M	22.356	22.36			2	5
13) Ethyl Ether	(1)	1.653(-0.001)	59	154872	26.148	26.15			2	5
15) Acrolein	(4)	1.732(-0.000)	56	439380	157.637	157.64			40	100
16) 1,1-Dichloroethene	(1)	1.805(0.000)	96	158248	22.820	22.82			0.8	5
18) Freon 113	(1)	1.829(-0.001)	101	166146	22.827	22.83			2	10
17) Acetone	(1)	1.829(-0.001)	58	297196	189.142	189.14			6	20
20) Methyl Iodide	(1)	1.908(-0.001)	142	301601	21.358	21.36			1	5
21) 2-Propanol	(4)	1.914(-0.003)	45	208522	192.443	192.44			50	100
22) Carbon Disulfide	(1)	1.957(-0.001)	76	411803	20.939	20.94			1	5
24) Allyl Chloride	(1)	2.030(0.000)	41	231025	23.626	23.63			1	5
25) Methyl Acetate	(1)	2.042(-0.001)	43	251071	26.661	26.66			1	5
26) Methylene Chloride	(1)	2.115(0.000)	84	136247	22.998	23.00			2	5
29) t-Butyl Alcohol	(4)	2.212(-0.008)	59	347592	225.377	225.38			10	80
30) Acrylonitrile	(1)	2.285(0.000)	53	414088	97.567	97.57			4	20
31) trans-1,2-Dichloroethene	(1)	2.328(-0.001)	96	114581	20.138	20.14			0.8	5
32) Methyl Tertiary Butyl Ether	(1)	2.340(-0.002)	73	376316	20.377	20.38			0.5	5
33) n-Hexane	(1)	2.553(-0.002)	57	151004	19.239	19.24			2	5
45) 1,2-Dichloroethene (total)	(1)		96	241964	40.670	40.67			0.8	5
34) 1,1-Dichloroethane	(1)	2.669(-0.001)	63	202589	20.318	20.32			1	5
36) di-Isopropyl Ether	(1)	2.748(-0.002)	45	362945	20.225	20.23			0.8	5
37) 2-Chloro-1,3-Butadiene	(1)	2.748(-0.001)	53	168981	18.982	18.98			1	5
39) Ethyl t-Butyl Ether	(1)	3.064(0.000)	59	353074	19.925	19.93			0.8	5
40) cis-1,2-Dichloroethene	(1)	3.180(-0.001)	96	127383	20.532	20.53			0.8	5
41) 2-Butanone	(1)	3.161(0.004)	43	899706	153.328	153.33			3	10
42) 2,2-Dichloropropane	(1)	3.192(0.000)	77	154438	18.542	18.54			1	5
43) Propionitrile	(4)	3.234(0.001)	54	266780	158.816	158.82			30	100

M = Compound was manually integrated.

PCH09 8342

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Data file: /chem2/HP09355.i/11nov28b.b/yn28105.d
Data file Sample Info. Line: LCSY09;LCSY09;1;3;LCS;;;;yn28b05;;
Date, time and analyst ID of latest file update: 28-Nov-2011 21:54 fav02618

Injection date and time: **28-NOV-2011 21:38**
Instrument ID: **HP09355.i** Batch: **Y113322AA**

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **8260W-4**
Calibration date and time (Last Method Edit): 28-NOV-2011 21:12
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.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 (in sample)
46) Methacrylonitrile	(1)	3.374(0.000)	67	623032	156.828	156.83			10	50
47) Bromochloromethane	(1)	3.392(-0.001)	128	67769	20.302	20.30			1	5
48) Tetrahydrofuran	(4)	3.441(-0.001)	71	161009M	101.532	101.53			4	10
50) Chloroform	(1)	3.472(-0.001)	83	203360	20.390	20.39			0.8	5
53) 1,1,1-Trichloroethane	(1)	3.648(0.000)	97	193615	19.142	19.14			0.8	5
56) Cyclohexane	(1)	3.703(0.000)	56	190857	20.111	20.11			2	5
57) 1,1-Dichloropropene	(1)	3.800(-0.001)	75	155960	19.911	19.91			1	5
58) Carbon Tetrachloride	(1)	3.806(0.000)	117	148860	18.795	18.80			1	5
59) Isobutyl Alcohol	(4)	3.940(0.005)	41	249594	495.802	495.80			100	250
63) Benzene	(1)	3.995(-0.001)	78	468388	20.583	20.58			0.5	5
65) 1,2-Dichloroethane	(1)	4.001(0.000)	62	174817	19.414	19.41			1	5
69) t-Amyl Methyl Ether	(1)	4.122(0.000)	73	328484	19.547	19.55			0.8	5
72) n-Heptane	(1)	4.281(-0.000)	43	163862	18.392	18.39			2	5
73) n-Butanol	(4)	4.585(0.003)	56	390572	929.531	929.53			100	250
74) Trichloroethene	(1)	4.628(-0.000)	95	121666	19.816	19.82			1	5
77) 1,2-Dichloropropane	(1)	4.840(0.000)	63	119696	20.160	20.16			1	5
76) Methylcyclohexane	(1)	4.828(0.000)	83	212661	20.937	20.94			1	5
80) Methyl Methacrylate	(1)	4.999(-0.001)	69	111863	18.407	18.41			1	5
78) Dibromomethane	(1)	4.962(-0.001)	93	81089	19.548	19.55			1	5
79) 1,4-Dioxane	(4)	4.986(0.003)	88	59156	432.397	432.40			70	250
83) Bromodichloromethane	(1)	5.132(0.000)	83	133085	18.565	18.57			1	5
85) 2-Nitropropane	(1)	5.364(-0.001)	41	50026	17.585	17.58			2	10
86) 2-Chloroethyl Vinyl Ether	(1)	5.467(-0.000)	63	87829	19.021	19.02			2	10
87) cis-1,3-Dichloropropene	(1)	5.601(0.000)	75	165907	18.963	18.96			1	5
89) 4-Methyl-2-Pentanone	(1)	5.789(-0.000)	43	1111229	99.726	99.73			3	10
94) Toluene	(2)	5.960(-0.000)	92	299034	20.148	20.15			0.7	5
95) trans-1,3-Dichloropropene	(2)	6.209(-0.000)	75	154737	18.663	18.66			1	5
96) Ethyl Methacrylate	(2)	6.349(0.000)	69	171177	18.488	18.49			1	5
97) 1,1,2-Trichloroethane	(2)	6.398(0.000)	97	117825	20.679	20.68			0.8	5
98) Tetrachloroethene	(2)	6.550(0.000)	166	142878	19.481	19.48			0.8	5
99) 1,3-Dichloropropane	(2)	6.574(-0.000)	76	192067	20.059	20.06			1	5
101) 2-Hexanone	(2)	6.702(0.000)	43	865739	99.463	99.46			3	10
102) Dibromochloromethane	(2)	6.818(0.000)	129	109736	19.521	19.52			1	5
104) 1,2-Dibromoethane	(2)	6.921(0.000)	107	124176	19.893	19.89			1	5
107) Chlorobenzene	(2)	7.468(0.000)	112	349160	20.119	20.12			0.8	5
108) 1,1,1,2-Tetrachloroethane	(2)	7.566(0.000)	131	113276	19.304	19.30			1	5
109) Ethylbenzene	(2)	7.602(0.000)	91	576137	19.780	19.78			0.8	5
110) m+p-Xylene	(2)	7.724(0.000)	106	469598	38.257	38.26			0.8	5
112) Xylene (Total)	(2)		106	701896	57.213	57.21			0.8	5
113) o-Xylene	(2)	8.083(0.000)	106	232298	18.957	18.96			0.8	5
114) Styrene	(2)	8.095(0.000)	104	362952	18.162	18.16			1	5
115) Bromoform	(2)	8.235(0.000)	173	79518	18.288	18.29			1	5
116) Isopropylbenzene	(2)	8.418(0.000)	105	606316	19.778	19.78			1	5
118) Cyclohexanone	(4)	8.466(0.011)	55	194723	402.693	402.69			55	250
122) 1,1,2,2-Tetrachloroethane	(3)	8.667(-0.000)	83	197235	21.436	21.44			1	5
124) trans-1,4-Dichloro-2-Butene	(3)	8.716(-0.000)	53	285698	85.599	85.60			15	50
121) Bromobenzene	(3)	8.643(-0.000)	156	164436	21.127	21.13			1	5
123) 1,2,3-Trichloropropane	(3)	8.691(-0.000)	110	65877	21.064	21.06			1	5
125) n-Propylbenzene	(3)	8.758(-0.000)	91	717112	21.958	21.96			1	5
126) 2-Chlorotoluene	(3)	8.813(-0.000)	126	151761	21.013	21.01			1	5
127) 1,3,5-Trimethylbenzene	(3)	8.904(0.000)	105	537085	20.973	20.97			1	5
128) 4-Chlorotoluene	(3)	8.898(0.000)	126	158949	20.194	20.19			1	5
130) tert-Butylbenzene	(3)	9.154(-0.000)	134	122253	19.682	19.68			1	5
131) Pentachloroethane	(3)	9.154(-0.000)	167	92413	19.719	19.72			1	5

PCH09 0343

M = Compound was manually integrated.

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Analysis Summary for GC/MS Volatiles

Data file: /chem2/HP09355.i/11nov28b.b/yn28105.d
Injection date and time: **28-NOV-2011 21:38**
Data file Sample Info. Line: LCSY09;LCSY09;1;3;LCS;;;;yn28b05;;
Instrument ID: **HP09355.i** Batch: **Y113322AA**
Date, time and analyst ID of latest file update: 28-Nov-2011 21:54 fav02618

Blank Data file reference: **/chem2/HP09355.i/11nov28b.b/yn28b05.d**

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: **8260W-4**
Calibration date and time (Last Method Edit): 28-NOV-2011 21:12
Mid Level Daily Calibration Standard Reference: **/chem2/HP09355.i/11nov28b.b/yn28c05.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**

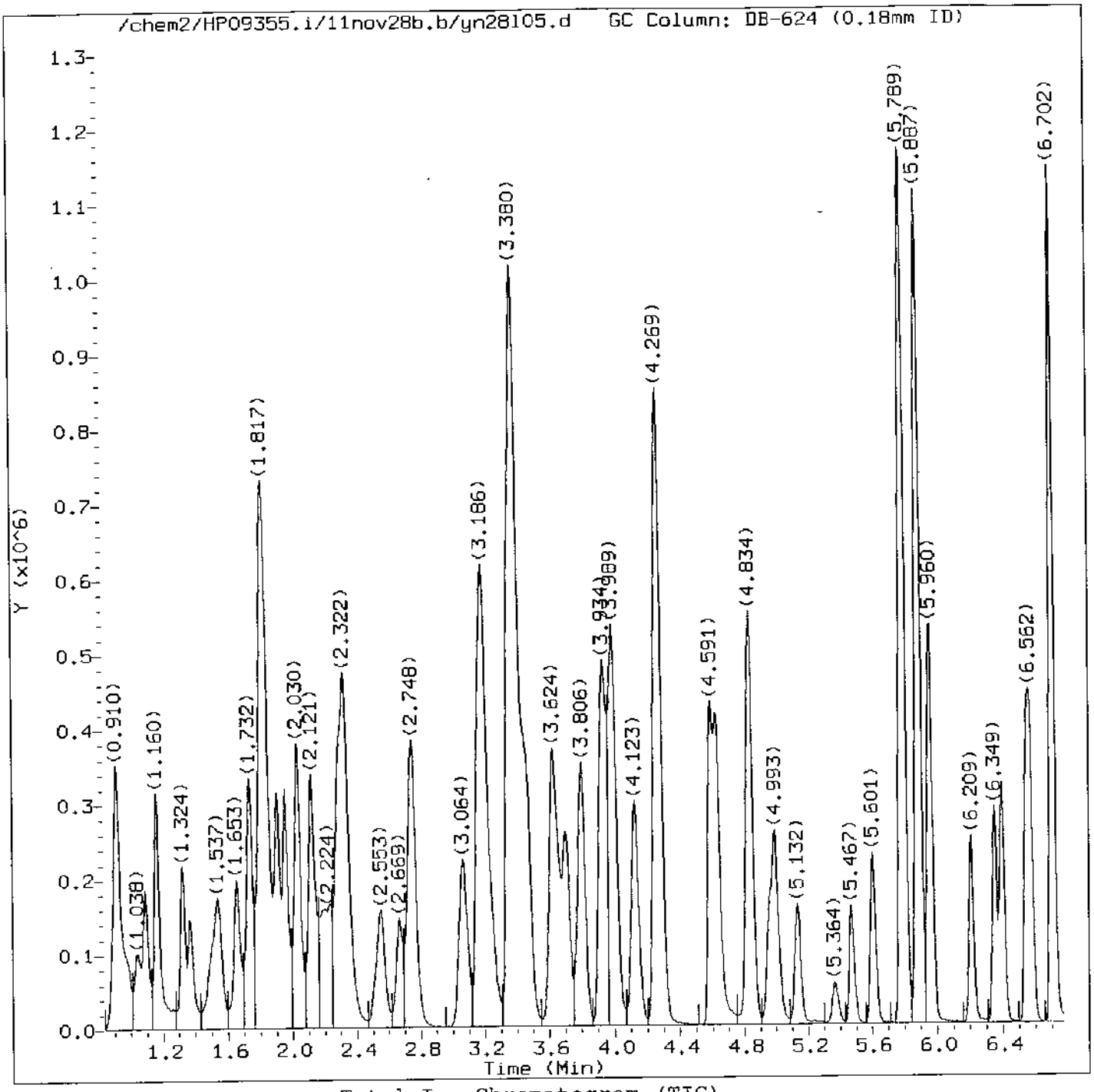
Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
132) 1,2,4-Trimethylbenzene	(3)	9.190(-0.000)	105	544004	21.265	21.27			1	5
133) sec-Butylbenzene	(3)	9.324(0.000)	105	659835	21.415	21.41			1	5
135) p-Isopropyltoluene	(3)	9.434(0.000)	119	622857	21.057	21.06			1	5
134) 1,3-Dichlorobenzene	(3)	9.385(0.000)	146	323507	21.185	21.18			1	5
138) 1,4-Dichlorobenzene	(3)	9.452(-0.000)	146	339753	20.737	20.74			1	5
139) 1,2,3-Trimethylbenzene	(3)	9.500(-0.000)	105	562121	21.474	21.47			1	5
141) Benzyl Chloride	(3)	9.555(-0.000)	91	339851	19.837	19.84			1	5
142) 1,3-Diethylbenzene	(3)	9.659(-0.000)	119	351764	20.918	20.92			1	5
143) 1,4-Diethylbenzene	(3)	9.713(-0.000)	119	375288	20.253	20.25			1	5
145) n-Butylbenzene	(3)	9.732(-0.000)	92	295329	20.431	20.43			1	5
144) 1,2-Dichlorobenzene	(3)	9.719(-0.000)	146	333361	20.546	20.55			1	5
146) 1,2-Diethylbenzene	(3)	9.798(-0.000)	119	298273	20.469	20.47			1	5
148) 1,2-Dibromo-3-Chloropropane	(3)	10.261(-0.000)	75	45245	18.487	18.49			2	5
149) 1,3,5-Trichlorobenzene	(3)	10.413(-0.000)	180	245401	19.760	19.76			1	5
150) 1,2,4-Trichlorobenzene	(3)	10.827(-0.000)	180	219195	19.059	19.06			1	5
151) Hexachlorobutadiene	(3)	10.942(-0.000)	225	98309	17.806	17.81			2	5
152) Naphthalene	(3)	10.979(-0.000)	128	735471	18.810	18.81			1	5
153) 1,2,3-Trichlorobenzene	(3)	11.137(-0.000)	180	209656	18.471	18.47			1	5
154) 2-Methylnaphthalene	(3)	11.703(-0.000)	142	357509	15.756	15.76			2	5

Total number of targets = 104

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Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36. Parallax ID: cmd00449



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28105.d
Injection date and time: 28-NOV-2011 21:38

Instrument ID: HP09355.i
Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m
Calibration date and time: 28-NOV-2011 21:12

Sublist used: 8260W-4

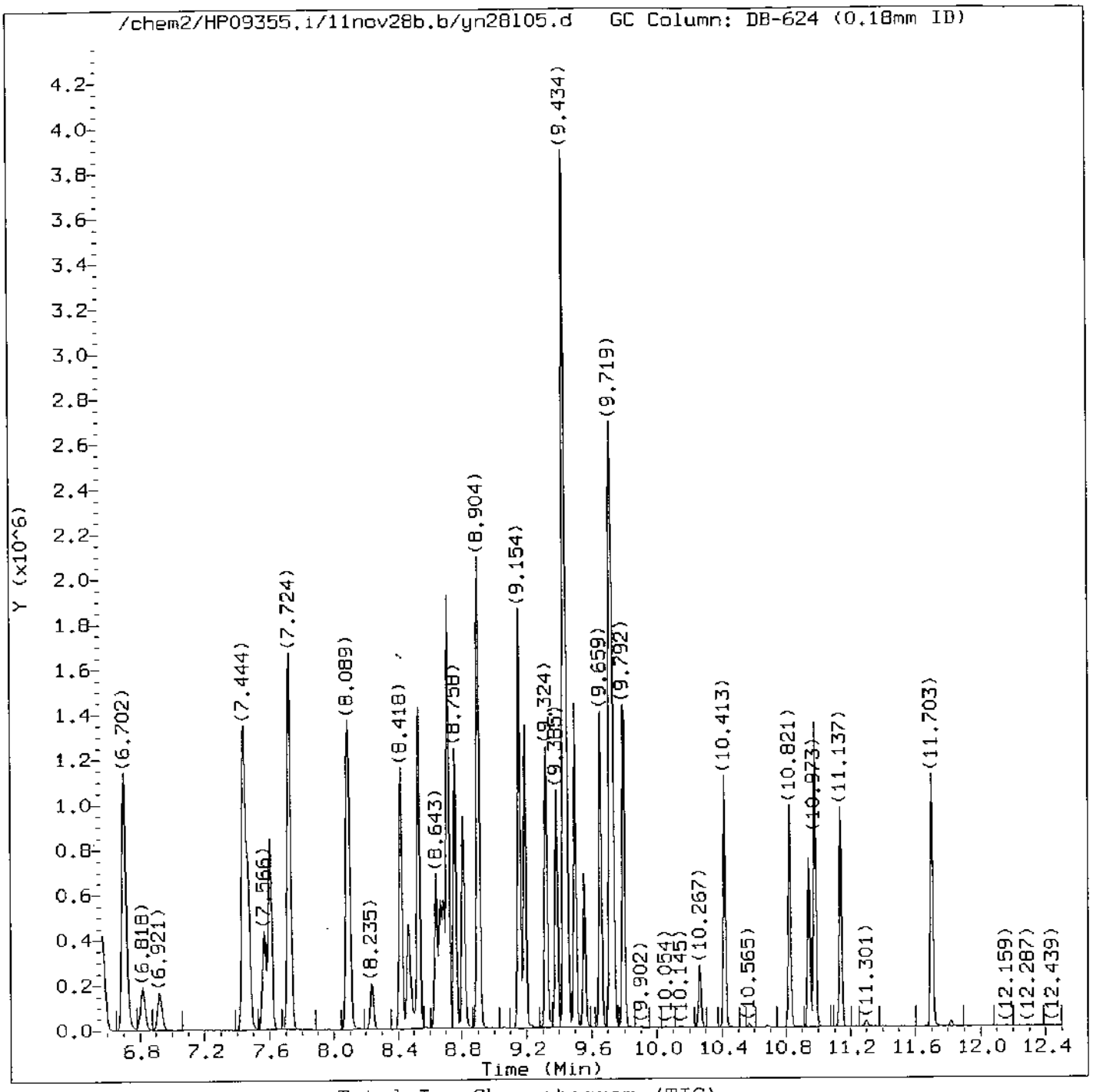
Date, time and analyst ID of latest file update: 28-Nov-2011 21:54 fav02618

Sample Name: LCSY09

Lab Sample ID: LCSY09

PCH09 8345

Digitally signed by Frank A. Valla Jr.
on 11/28/2011 at 21:55.
Target 3.5 esignature user ID: fav02618



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28105.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:38 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:54 fav02618

Sample Name: LCSY09 Lab Sample ID: LCSY09

PCH89 8346

Digitally signed by Frank A. Valla Jr.
on 11/28/2011 at 21:55.
Target 3.5 esignature user ID: fav02618

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28105.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:38 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:54 fav02618

Sample Name: LCSY09 Lab Sample ID: LCSY09

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Dichlorodifluoromethane	(1)	1.044	85	189598	18.035
3) Chloromethane	(1)	1.087	50	188554	19.560
5) Vinyl Chloride	(1)	1.160	62	195225	20.040
7) Bromomethane	(1)	1.324	94	150049	20.301
8) Chloroethane	(1)	1.373	64	122603	22.005
10) Trichlorofluoromethane	(1)	1.537	101	307602M	22.356
13) Ethyl Ether	(1)	1.653	59	154872	26.148
15) Acrolein	(4)	1.732	56	439380	157.637
16) 1,1-Dichloroethene	(1)	1.805	96	158248	22.820
18) Freon 113	(1)	1.829	101	166146	22.827
17) Acetone	(1)	1.829	58	297196	189.142
20) Methyl Iodide	(1)	1.908	142	301601	21.358
21) 2-Propanol	(4)	1.914	45	208522	192.443
22) Carbon Disulfide	(1)	1.957	76	411803	20.939
24) Allyl Chloride	(1)	2.030	41	231025	23.626
25) Methyl Acetate	(1)	2.042	43	251071	26.661
26) Methylene Chloride	(1)	2.115	84	136247	22.998
28)*t-Butyl Alcohol-d10	(4)	2.145	65	347889	250.000
29) t-Butyl Alcohol	(4)	2.212	59	347592	225.377
30) Acrylonitrile	(1)	2.285	53	414088	97.567
31) trans-1,2-Dichloroethene	(1)	2.328	96	114581	20.138
32) Methyl Tertiary Butyl Ether	(1)	2.340	73	376316	20.377
33) n-Hexane	(1)	2.553	57	151004	19.239
34) 1,1-Dichloroethane	(1)	2.669	63	202589	20.318
37) 2-Chloro-1,3-Butadiene	(1)	2.748	53	168981	18.982
36) di-Isopropyl Ether	(1)	2.748	45	362945	20.225
39) Ethyl t-Butyl Ether	(1)	3.064	59	353074	19.925
41) 2-Butanone	(1)	3.161	43	899706	153.328
40) cis-1,2-Dichloroethene	(1)	3.180	96	127383	20.532
42) 2,2-Dichloropropane	(1)	3.192	77	154438	18.542
43) Propionitrile	(4)	3.234	54	266780	158.816
46) Methacrylonitrile	(1)	3.374	67	623032	156.828
47) Bromochloromethane	(1)	3.393	128	67769	20.302
48) Tetrahydrofuran	(4)	3.441	71	161009M	101.532
50) Chloroform	(1)	3.472	83	203360	20.390
52)$Dibromofluoromethane	(1)	3.618	113	243929	49.124
45) 1,2-Dichloroethene (total)	(1)		96	241964	40.670
53) 1,1,1-Trichloroethane	(1)	3.648	97	193615	19.142

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

Digitally signed by Frank A. Valla Jr.
on 11/28/2011 at 21:55.
Target 3.5 esignature user ID: fav02618

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28105.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:38 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:54 fav02618

Sample Name: LCSY09 Lab Sample ID: LCSY09

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
56) Cyclohexane	(1)	3.703	56	190857	20.111
57) 1,1-Dichloropropene	(1)	3.800	75	155960	19.911
58) Carbon Tetrachloride	(1)	3.806	117	148860	18.795
62) $1,2-Dichloroethane-d4	(1)	3.934	102	63067	51.770
59) Isobutyl Alcohol	(4)	3.940	41	249594	495.802
63) Benzene	(1)	3.995	78	468388	20.583
65) 1,2-Dichloroethane	(1)	4.001	62	174817	19.414
69) t-Amyl Methyl Ether	(1)	4.123	73	328484	19.547
71) *Fluorobenzene	(1)	4.263	96	1002995	50.000
72) n-Heptane	(1)	4.281	43	163862	18.392
73) n-Butanol	(4)	4.585	56	390572	929.531
74) Trichloroethene	(1)	4.628	95	121666	19.816
76) Methylcyclohexane	(1)	4.828	83	212661	20.937
77) 1,2-Dichloropropane	(1)	4.840	63	119696	20.160
78) Dibromomethane	(1)	4.962	93	81089	19.548
79) 1,4-Dioxane	(4)	4.986	88	59156	432.397
80) Methyl Methacrylate	(1)	4.999	69	111863	18.407
83) Bromodichloromethane	(1)	5.132	83	133085	18.565
85) 2-Nitropropane	(1)	5.364	41	50026	17.585
86) 2-Chloroethyl Vinyl Ether	(1)	5.467	63	87829	19.021
87) cis-1,3-Dichloropropene	(1)	5.601	75	165907	18.963
89) 4-Methyl-2-Pentanone	(1)	5.789	43	1111229	99.726
93) $Toluene-d8	(2)	5.887	98	998000	50.216
94) Toluene	(2)	5.960	92	299034	20.148
95) trans-1,3-Dichloropropene	(2)	6.209	75	154737	18.663
96) Ethyl Methacrylate	(2)	6.349	69	171177	18.488
97) 1,1,2-Trichloroethane	(2)	6.398	97	117825	20.679
98) Tetrachloroethene	(2)	6.550	166	142878	19.481
99) 1,3-Dichloropropane	(2)	6.574	76	192067	20.059
101) 2-Hexanone	(2)	6.702	43	865739	99.463
102) Dibromochloromethane	(2)	6.818	129	109736	19.521
104) 1,2-Dibromoethane	(2)	6.921	107	124176	19.893
106) *Chlorobenzene-d5	(2)	7.444	117	753408	50.000
107) Chlorobenzene	(2)	7.469	112	349160	20.119
108) 1,1,1,2-Tetrachloroethane	(2)	7.566	131	113276	19.304
109) Ethylbenzene	(2)	7.602	91	576137	19.780
110) m+p-Xylene	(2)	7.724	106	469598	38.257
113) o-Xylene	(2)	8.083	106	232298	18.957

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

PCN09 0348

Digitally signed by Frank A. Valla Jr.
on 11/28/2011 at 21:55.
Target 3.5 esignature user ID: fav02618

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/11nov28b.b/yn28l05.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:38 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:54 fav02618

Sample Name: LCSY09 Lab Sample ID: LCSY09

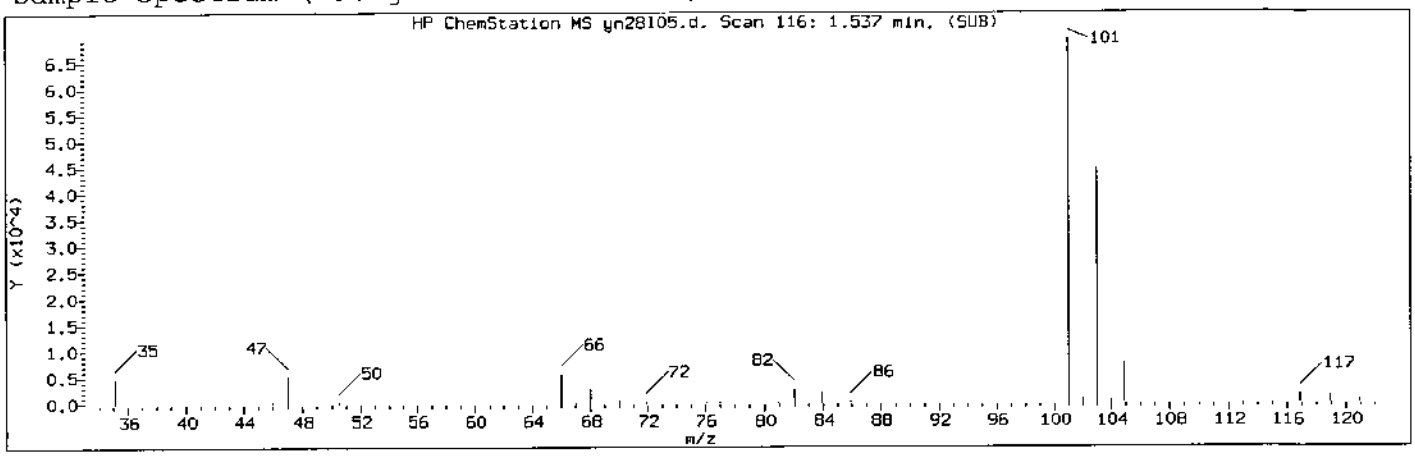
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
114) Styrene	(2)	8.095	104	362952	18.162
112) Xylene (Total)	(2)		106	701896	57.213
115) Bromoform	(2)	8.235	173	79518	18.288
116) Isopropylbenzene	(2)	8.418	105	606316	19.778
118) Cyclohexanone	(4)	8.466	55	194723	402.693
119) $4-Bromofluorobenzene	(2)	8.533	95	366601	48.825
121) Bromobenzene	(3)	8.643	156	164436	21.127
122) 1,1,2,2-Tetrachloroethane	(3)	8.667	83	197235	21.436
123) 1,2,3-Trichloropropane	(3)	8.691	110	65877	21.064
124) trans-1,4-Dichloro-2-Butene	(3)	8.716	53	285698	85.599
125) n-Propylbenzene	(3)	8.758	91	717112	21.958
126) 2-Chlorotoluene	(3)	8.813	126	151761	21.013
128) 4-Chlorotoluene	(3)	8.898	126	158949	20.194
127) 1,3,5-Trimethylbenzene	(3)	8.904	105	537085	20.973
130) tert-Butylbenzene	(3)	9.154	134	122253	19.682
131) Pentachloroethane	(3)	9.154	167	92413	19.719
132) 1,2,4-Trimethylbenzene	(3)	9.190	105	544004	21.265
133) sec-Butylbenzene	(3)	9.324	105	659835	21.415
134) 1,3-Dichlorobenzene	(3)	9.385	146	323507	21.185
135) p-Isopropyltoluene	(3)	9.434	119	622857	21.057
136) *1,4-Dichlorobenzene-d4	(3)	9.440	152	491830	50.000
138) 1,4-Dichlorobenzene	(3)	9.452	146	339753	20.737
139) 1,2,3-Trimethylbenzene	(3)	9.500	105	562121	21.474
141) Benzyl Chloride	(3)	9.555	91	339851	19.837
142) 1,3-Diethylbenzene	(3)	9.659	119	351764	20.918
143) 1,4-Diethylbenzene	(3)	9.713	119	375288	20.253
144) 1,2-Dichlorobenzene	(3)	9.719	146	333361	20.546
145) n-Butylbenzene	(3)	9.732	92	295329	20.431
146) 1,2-Diethylbenzene	(3)	9.799	119	298273	20.469
148) 1,2-Dibromo-3-Chloropropane	(3)	10.261	75	45245	18.487
149) 1,3,5-Trichlorobenzene	(3)	10.413	180	245401	19.760
150) 1,2,4-Trichlorobenzene	(3)	10.827	180	219195	19.059
151) Hexachlorobutadiene	(3)	10.942	225	98309	17.806
152) Naphthalene	(3)	10.979	128	735471	18.810
153) 1,2,3-Trichlorobenzene	(3)	11.137	180	209656	18.471
154) 2-Methylnaphthalene	(3)	11.703	142	357509	15.756

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

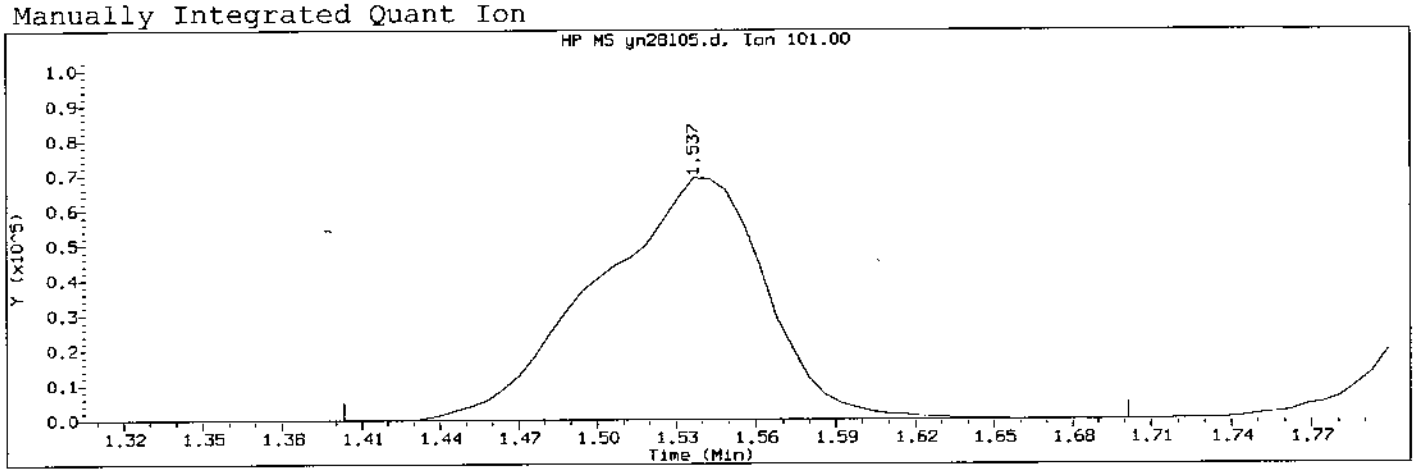
PCH09 5349

Digitally signed by Frank A. Valla Jr.
on 11/28/2011 at 21:55.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov28b.b/yn28105.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:38 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:54 fav02618

Sample Name: LCSY09 Lab Sample ID: LCSY09

Compound Number	: 10		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 116		
Retention Time (minutes)	: 1.537		
Quant Ion	: 101.00		
Area (flag)	: 307602M		
On-Column Amount (ng)	: 22.3561		
Integration start scan	: 93	Integration stop scan:	142
Y at integration start	: 0	Y at integration end:	0

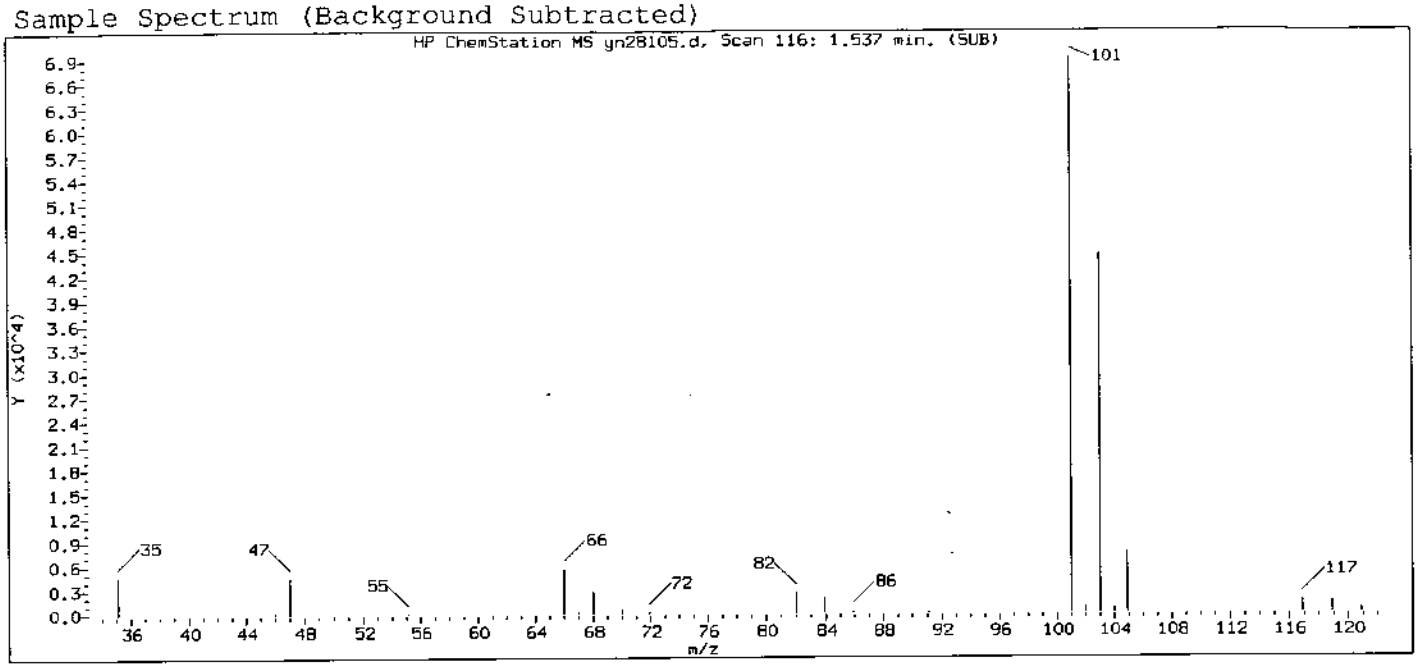
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:55. Target 3.5 esignature user ID: fav02618

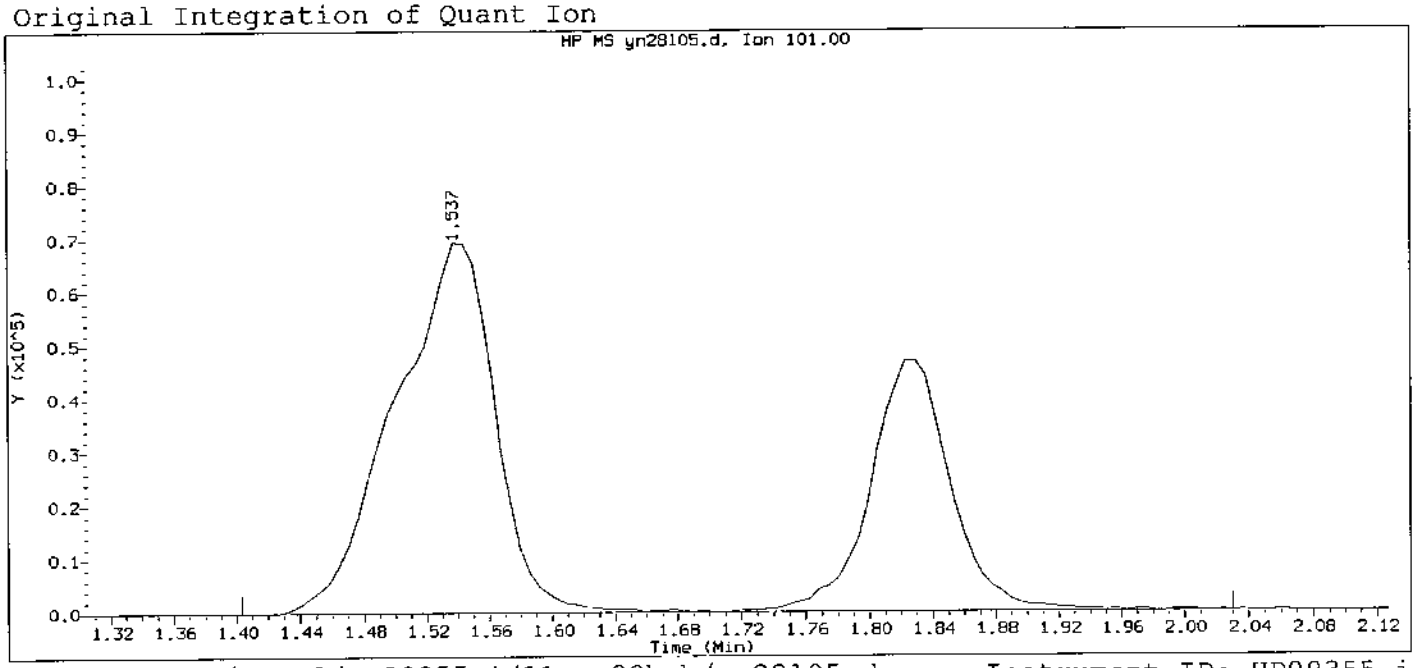
PCH09 8356

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36.
Parallax ID: cmd00448

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov28b.b/yn28105.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:38 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:53 Automation

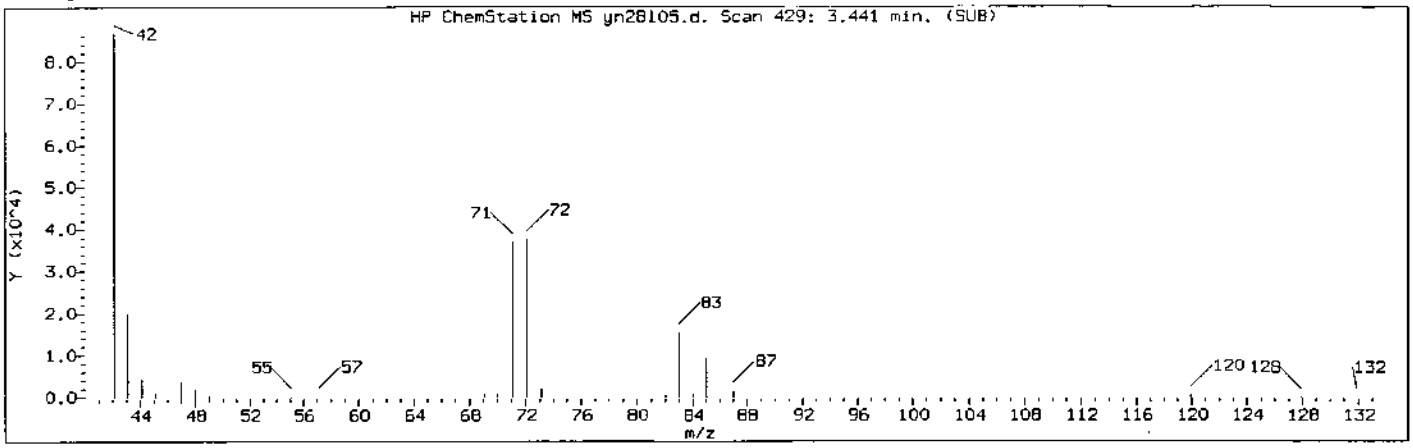
Sample Name: LCSY09 Lab Sample ID: LCSY09

Compound Number : 10
Compound Name : Trichlorofluoromethane
Scan Number : 116
Retention Time (minutes): 1.537
Quant Ion : 101.00
Area : 473848
On-column Amount (ng) : 34.4385
Integration start scan : 93 Integration stop scan: 196
Y at integration start : 0 Y at integration end: 0

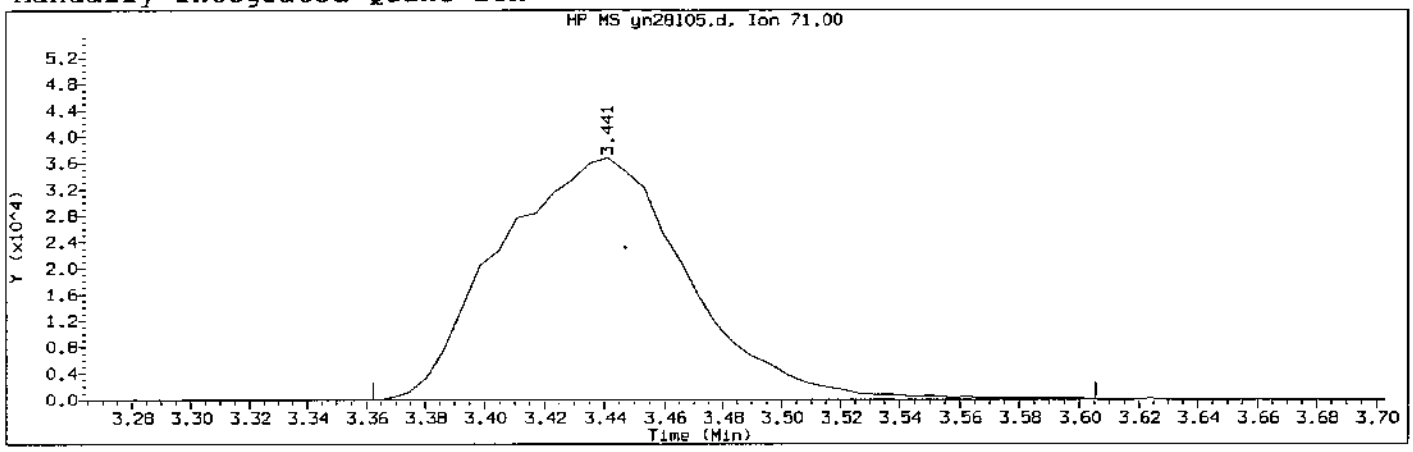
PCH09 8351

Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:55.
Target 3.5 esignature user ID: fav02618

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/11nov28b.b/yn28105.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:38 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:54 fav02618

Sample Name: LCSY09 Lab Sample ID: LCSY09

Compound Number	: 48		
Compound Name	: Tetrahydrofuran		
Scan Number	: 429		
Retention Time (minutes)	: 3.441		
Quant Ion	: 71.00		
Area (flag)	: 161009M		
On-Column Amount (ng)	: 101.5316		
Integration start scan	: 415	Integration stop scan:	455
Y at integration start	: 0	Y at integration end:	0

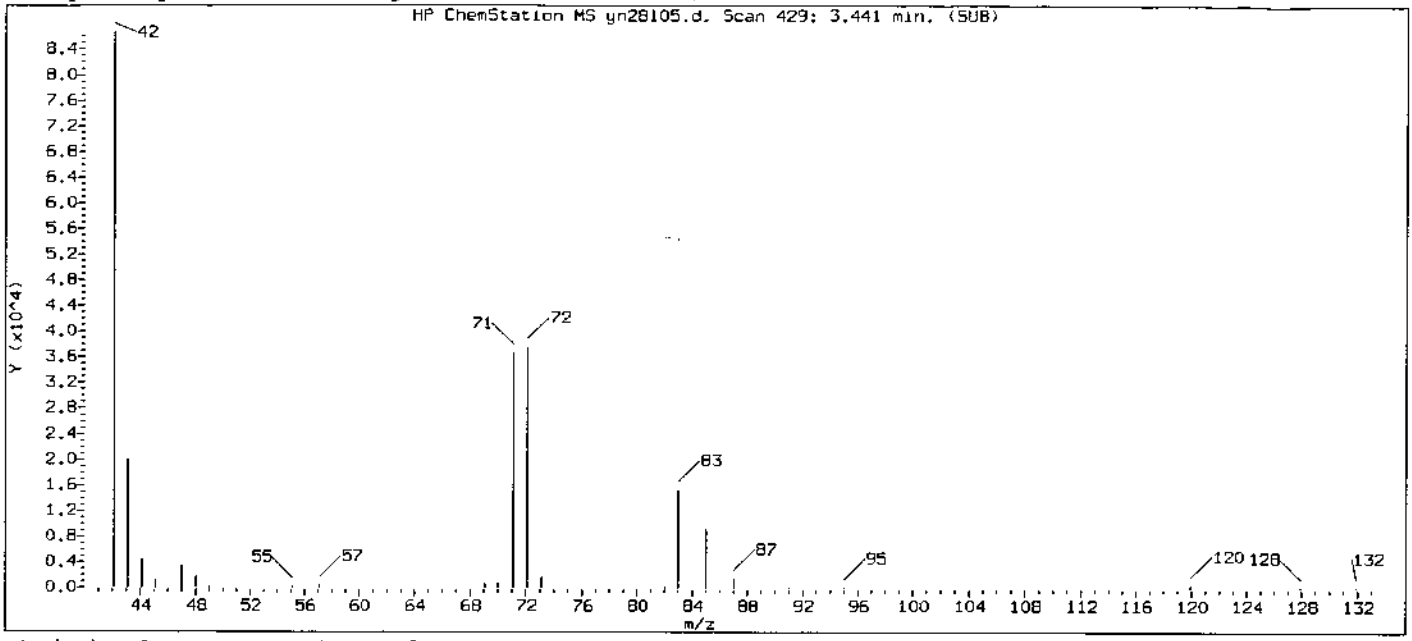
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:55. Target 3.5 esignature user ID: fav02618

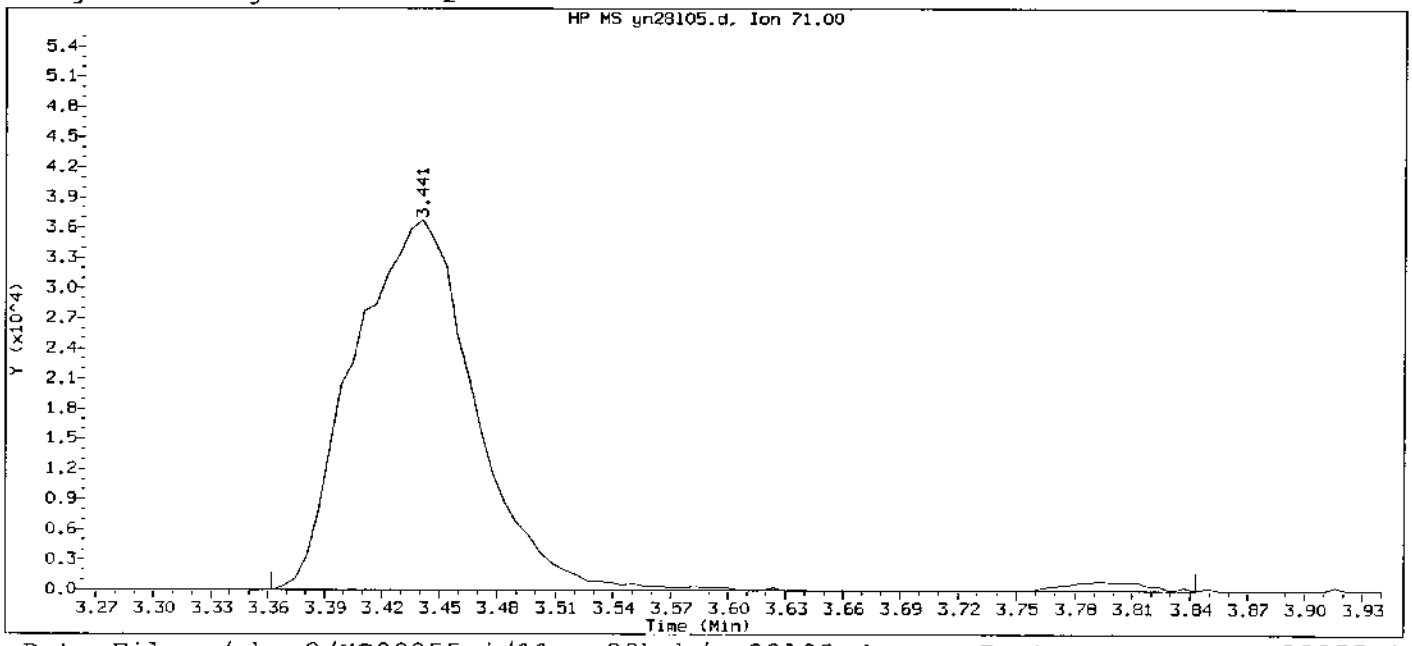
PCH09 8352

Secondary review performed and digitally signed by Christine M. Dulaney on 11/29/2011 at 20:36.
Parallax ID: cmd00448

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/11nov28b.b/yn28105.d Instrument ID: HP09355.i
Injection date and time: 28-NOV-2011 21:38 Analyst ID: FAV02618

Method used: /chem2/HP09355.i/11nov28b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-NOV-2011 21:12
Date, time and analyst ID of latest file update: 28-Nov-2011 21:53 Automation

Sample Name: LCSY09 Lab Sample ID: LCSY09

Compound Number	: 48		
Compound Name	: Tetrahydrofuran		
Scan Number	: 429		
Retention Time (minutes)	: 3.441		
Quant Ion	: 71.00		
Area	: 163777		
On-column Amount (ng)	: 103.2767		
Integration start scan	: 415	Integration stop scan:	494
Y at integration start	: 0	Y at integration end:	0

PCHAS 0353

Digitally signed by Frank A. Valla Jr. on 11/28/2011 at 21:55.
Target 3.5 esignature user ID: fav02618

Semivolatiles by GC/MS Data

PCN89 0354

Case Narrative
Conformance/Nonconformance
Summary

Lancaster Laboratories

CLIENT: Brown & Caldwell
SDG: PCH09

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

PAHs in Water by GC/MS

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
6477561	MW-1	X		1	Unspiked
6477562	MW-1 Matrix Spike	X		1	Matrix Spike
6477563	MW-1 Matrix Spike Dup	X		1	Matrix Spike Duplicate
6477564	MW-3	X		1	
6477565	MW-8D	X		1	
6477566	MW-8S	X		1	
6477567	DUP-111611	X		1	Field Duplicate Sample
6477568	MW-9S	X		1	
6477569	MW-9D	X		1	
6477570	MW-4S	X		1	
6477571	MW-4D	X		1	
6477572	FB-111711	X		1	Field Blank
6477573	MW-7S	X		1	
6477574	MW-7D	X		1	
6477575	MW-2D	X		1	
6477576	MW-2S	X		1	

See QC Reference List for Associated Batch QC Samples.

SAMPLE PREPARATION:

No problems were encountered with the preparation of the samples.

ANALYSIS:

Sample number 6477575: Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.

No other problems were encountered with the analysis of the samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

The retention times for a number of compounds in CCV file el0201 12/05/11 (instrument HP09572) are outside of specifications due to the trimming of the column during routine maintenance.

Lancaster Laboratories

CLIENT: Brown & Caldwell
SDG: PCH09

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

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 12/15/11 (Date) by Jessica R. Baron

Jessica R. Baron
Specialist

PCH09 8357

GC/MS Semivolatiles CALCULATIONS:

1. Relative response factor (RRF)

$$RRF = \frac{AX}{Ais} \times \frac{Cis}{Cx}$$

Where:
Ax = Area of the characteristic ion for the compound to be measured
Ais = Area of the characteristic ion for the specific internal standard to be measured
Cis = Concentration of the internal standard
Cx = Concentration of the compound to be measured

2. % Relative Standard Deviation (%RPD)

$$\%RSD = \frac{\text{standard deviation}}{\text{mean}} \times 100$$

3. % Difference (%D)

$$\%D = \frac{RRFc - RRFi}{RRFi} \times 100$$

Where:
RRFc = Relative response factor from continuing calibration standard
RRFi = Mean relative response factor form the initial calibration

4. Concentration

$$\text{Concentration (ug/l)} = \frac{(Ax)\ (Is)\ (Df)\ (Vt)}{(Ais)\ (RRF)\ (Vo)\ (Vi)}$$

Where:
Ax, Ais, and RRF are as given in 1. above
Is = Amount of internal standard added in parts per billion (ng)
Df = Dilution factor
Vt = volume of the concentrated extract (ul)
Vo = volume of water extracted (ml)
Vi = volume of extract injected (ul)

5. % Recovery

$$\%Rec = \frac{SSR - SR}{SA} \times 100$$

Where:
SSR = Spiked sample result
SR = Sample result
SA = Spike added

PON89 0350

GC/MS Semivolatiles CALCULATIONS (continued):

6. Relative Percent Difference (RPD)

$$RPD = \frac{|\ MSR - MSDR\ |}{(1/2)\ \ (MSR + MSDR)}$$

Where:
MSR = Matrix spike recovery
MSDR = Matrix spike duplicate recovery

Quality Control and Calibration Summary Forms

Lancaster Laboratories

Quality Control Reference List
GC/MS Semivolatiles

CLIENT: Brown & Caldwell
SDG: PCH09

Fraction: Semivolatiles by GC/MS

Analysis	Batch Number	Sample Number	Analysis Date
PAHs in Water by GC/MS	11325WAK026	SBLKWK325	12/05/2011 09:16:00
		325WKLCS	12/05/2011 09:40:00
		6477561 UNSPK	12/05/2011 12:52:00
		6477562 MS	12/05/2011 13:16:00
		6477563 MSD	12/05/2011 13:40:00
		6477564	12/05/2011 14:04:00
		6477565	12/05/2011 14:28:00
		6477566	12/05/2011 14:52:00
		6477567	12/05/2011 15:16:00
		6477568	12/05/2011 15:40:00
		6477569	12/05/2011 16:04:00
		6477570	12/05/2011 16:29:00
		6477571	12/05/2011 16:53:00
		6477572	12/05/2011 17:16:00
		6477573	12/05/2011 17:41:00
		6477574	12/05/2011 18:04:00
		6477575	12/05/2011 18:28:00
		6477576	12/05/2011 18:52:00

Lancaster Laboratories

Quality Control Summary
Method Blank
GC/MS Semivolatiles
SDG: PCH09
Matrix: LIQUID

Fraction: Semivolatiles by GC/MS

11325WAK026 / SBLKWK325 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Naphthalene	12/05/11	N.D.	ug/l	0.1	0.5
Acenaphthylene	12/05/11	N.D.	ug/l	0.1	0.5
Acenaphthene	12/05/11	N.D.	ug/l	0.1	0.5
Fluorene	12/05/11	N.D.	ug/l	0.1	0.5
Phenanthrene	12/05/11	N.D.	ug/l	0.1	0.5
Anthracene	12/05/11	N.D.	ug/l	0.1	0.5
Fluoranthene	12/05/11	N.D.	ug/l	0.1	0.5
Pyrene	12/05/11	N.D.	ug/l	0.1	0.5
Benzo(a)anthracene	12/05/11	N.D.	ug/l	0.1	0.5
Chrysene	12/05/11	N.D.	ug/l	0.1	0.5
Benzo(b)fluoranthene	12/05/11	N.D.	ug/l	0.1	0.5
Benzo(k)fluoranthene	12/05/11	N.D.	ug/l	0.1	0.5
Benzo(a)pyrene	12/05/11	N.D.	ug/l	0.1	0.5
Indeno(1,2,3-cd)pyrene	12/05/11	N.D.	ug/l	0.1	0.5
Dibenz(a,h)anthracene	12/05/11	N.D.	ug/l	0.1	0.5
Benzo(g,h,i)perylene	12/05/11	N.D.	ug/l	0.1	0.5

Lancaster Laboratories

Quality Control Summary
Surrogates
GC/MS Semivolatiles
SDG: PCH09
Matrix: LIQUID

Fraction: Semivolatiles by GC/MS

11325WAK026	Nitrobenzene-d5		2-Fluorobiphenyl		Terphenyl-d14	
	Spike Added	100 ug/l	Spike Added	100 ug/l	Spike Added	100 ug/l
Sample	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits
SBLKWK325	92	52 - 120	101	63 - 114	99	34 - 118
325WKLCS	88	52 - 120	96	63 - 114	94	34 - 118
6477561	85	52 - 120	91	63 - 114	89	34 - 118
6477562 MS	84	52 - 120	92	63 - 114	92	34 - 118
6477563 MSD	86	52 - 120	94	63 - 114	91	34 - 118
6477564	82	52 - 120	92	63 - 114	92	34 - 118
6477565	87	52 - 120	99	63 - 114	94	34 - 118
6477566	87	52 - 120	95	63 - 114	91	34 - 118
6477567	86	52 - 120	94	63 - 114	95	34 - 118
6477568	80	52 - 120	86	63 - 114	89	34 - 118
6477569	77	52 - 120	85	63 - 114	85	34 - 118
6477570	87	52 - 120	99	63 - 114	96	34 - 118
6477571	85	52 - 120	95	63 - 114	92	34 - 118
6477572	86	52 - 120	97	63 - 114	96	34 - 118
6477573	84	52 - 120	92	63 - 114	93	34 - 118
6477574	87	52 - 120	96	63 - 114	97	34 - 118
6477575	87	52 - 120	97	63 - 114	94	34 - 118
6477576	88	52 - 120	99	63 - 114	98	34 - 118

Lancaster Laboratories

Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: PCH09
Matrix: LIQUID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

UNSPK: 6477561 MS: 6477562 MSD: 6477563 **Analyte**	Batch: **11325WAK026** (Sample number(s): 6477561-6477576)								
	Spike Added ug/l	**Unspiked Conc ug/l**	**MS Conc ug/l**	**MSD Conc ug/l**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Naphthalene	49.5	N.D.	43.6	45.01	88	93	73-113	3	30
Acenaphthylene	49.5	N.D.	51.03	50.86	103	105	75-124	0	30
Acenaphthene	49.5	N.D.	45.75	46.35	92	96	78-107	1	30
Fluorene	49.5	N.D.	47.73	48.29	96	100	71-123	1	30
Phenanthrene	49.5	N.D.	47.61	46.78	96	97	72-121	2	30
Anthracene	49.5	N.D.	49.43	48.62	100	101	78-114	2	30
Fluoranthene	49.5	N.D.	52.79	51.76	107	107	73-110	2	30
Pyrene	49.5	N.D.	47.68	47.16	96	98	77-117	1	30
Benzo(a)anthracene	49.5	N.D.	49.21	48.7	99	101	76-114	1	30
Chrysene	49.5	N.D.	48.92	46.99	99	97	78-116	4	30
Benzo(b)fluoranthene	49.5	N.D.	46.57	46.05	94	95	65-125	1	30
Benzo(k)fluoranthene	49.5	N.D.	48.45	48.28	98	100	71-121	0	30
Benzo(a)pyrene	49.5	N.D.	47.89	47.5	97	98	58-128	1	30
Indeno(1,2,3-cd)pyrene	49.5	N.D.	50.62	39.88	102	83	69-120	24	30
Dibenz(a,h)anthracene	49.5	N.D.	51.53	50.66	104	105	73-133	2	30
Benzo(g,h,i)perylene	49.5	N.D.	49.15	48.66	99	101	72-122	1	30

Results are being reported on an as received basis.

Lancaster Laboratories

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

SDG: PCH09
Matrix: LIQUID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

LCS: 325WKLCS	Batch: **11325WAK026** (Sample number(s): 6477561-6477576)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Naphthalene	50	47		94		70-111		
Acenaphthylene	50	53.05		106		80-122		
Acenaphthene	50	47.87		96		75-114		
Fluorene	50	49.75		100		76-116		
Phenanthrene	50	50.15		100		76-113		
Anthracene	50	51.58		103		76-115		
Fluoranthene	50	57.5		115		76-119		
Pyrene	50	48.96		98		75-119		
Benzo(a)anthracene	50	52.42		105		75-116		
Chrysene	50	52.9		106		76-116		
Benzo(b)fluoranthene	50	52.24		104		66-125		
Benzo(k)fluoranthene	50	52.09		104		66-131		
Benzo(a)pyrene	50	50.13		100		64-126		
Indeno(1,2,3-cd)pyrene	50	52.39		105		69-121		
Dibenz(a,h)anthracene	50	52.72		105		67-131		
Benzo(g,h,i)perylene	50	51.54		103		66-132		

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: ek1120v.d DFTPP Injection Date: 11/22/11

Instrument ID: HP09572 DFTPP Injection Time: 21:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.4
70	Less than 2.0% of mass 69	0.3 (0.58)1
127	40.0 - 60.0% of mass 198	54.5
197	Less than 1.0% of mass 198	0.28
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.47
275	10.0 - 30.0% of mass 198	17.6
365	Greater than 1.00% of mass 198	1.84
441	Present, and less than mass 443	6.83
442	Greater than 40.0 % of mass 198	48.4
443	17.0 - 23.0% of mass 442	9.49 (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	STD3191 - SSTD30	ek1121a.d	11/22/11	21:56
02	STD3191 - SSTD.5	ek1122.d	11/22/11	22:19
03	STD3191 - SSTD120	ek1123.d	11/22/11	22:43
04	STD3191 - SSTD80	ek1124.d	11/22/11	23:07
05	STD3191 - SSTD50	ek1125.d	11/22/11	23:31
06	STD3191 - SSTD15	ek1126.d	11/22/11	23:55
07	STD3191 - SSTD5	ek1127.d	11/23/11	00:19
08	STD3191 - SSTD1	ek1128.d	11/23/11	00:43
09	STD3191 - SSTD0.5	ek1129.d	11/23/11	01:08
10	STDMDL3191 - SSTD0.1	ek1130.d	11/23/11	01:32
11	ICV2691 - SSTD050	ek1131.d	11/23/11	01:56
12	BASICV2971 - SSTD050	ek1132.d	11/23/11	02:20
13	STD3081 - SSTD50	ek1133.d	11/23/11	02:44
14	STD3081 - SSTD120	ek1134.d	11/23/11	03:08
15	STD3081 - SSTD80	ek1135.d	11/23/11	03:32
16	STD3081 - SSTD30	ek1136.d	11/23/11	03:56
17	STD3081 - SSTD15	ek1137.d	11/23/11	04:20
18	STD3081 - SSTD5	ek1138.d	11/23/11	04:45

PCH09 8366

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: ek1120v.d DFTPP Injection Date: 11/22/11

Instrument ID: HP09572 DFTPP Injection Time: 21:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.4
70	Less than 2.0% of mass 69	0.3 (0.58)1
127	40.0 - 60.0% of mass 198	54.5
197	Less than 1.0% of mass 198	0.28
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.47
275	10.0 - 30.0% of mass 198	17.6
365	Greater than 1.00% of mass 198	1.84
441	Present, and less than mass 443	6.83
442	Greater than 40.0 % of mass 198	48.4
443	17.0 - 23.0% of mass 442	9.49 (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	STD3081 - SSTD001	ek1139.d	11/23/11	05:09
20	STD2091 - SSTD050	ek1140.d	11/23/11	05:33

FORM V SV

PCH89 63367

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: el0200.d DFTPP Injection Date: 12/05/11

Instrument ID: HP09572 DFTPP Injection Time: 07:58

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	0.18 (0.42)1
69	Mass 69 relative abundance	44.2
70	Less than 2.0% of mass 69	0.23 (0.51)1
127	40.0 - 60.0% of mass 198	50.0
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.63
275	10.0 - 30.0% of mass 198	20.0
365	Greater than 1.00% of mass 198	1.88
441	Present, and less than mass 443	9.32
442	Greater than 40.0 % of mass 198	66.1
443	17.0 - 23.0% of mass 442	12.4 (18.8)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	STD3321 - SSTD30	el0201.d	12/05/11	08:17
02	SBLKWK325	el0202.d	12/05/11	09:16
03	325WKLCS	el0203.d	12/05/11	09:40
04	SBLKWB336	el0204.d	12/05/11	10:04
05	336WBLCS	el0205.d	12/05/11	10:28
06	6477836DL	el0206.d	12/05/11	10:52
07	6477842DL	el0207.d	12/05/11	11:15
08	6477561	el0211.d	12/05/11	12:52
09	6477562MS	el0212.d	12/05/11	13:16
10	6477563MSD	el0213.d	12/05/11	13:40
11	6477564	el0214.d	12/05/11	14:04
12	6477565	el0215.d	12/05/11	14:28
13	6477566	el0216.d	12/05/11	14:52
14	6477567	el0217.d	12/05/11	15:16
15	6477568	el0218.d	12/05/11	15:40
16	6477569	el0219.d	12/05/11	16:04
17	6477570	el0220.d	12/05/11	16:29
18	6477571	el0221.d	12/05/11	16:53

FORM V SV

PCH89 8368

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: e10200.d DFTPP Injection Date: 12/05/11

Instrument ID: HP09572 DFTPP Injection Time: 07:58

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	0.18 (0.42)1
69	Mass 69 relative abundance	44.2
70	Less than 2.0% of mass 69	0.23 (0.51)1
127	40.0 - 60.0% of mass 198	50.0
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.63
275	10.0 - 30.0% of mass 198	20.0
365	Greater than 1.00% of mass 198	1.88
441	Present, and less than mass 443	9.32
442	Greater than 40.0 % of mass 198	66.1
443	17.0 - 23.0% of mass 442	12.4 (18.8)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	6477572	e10222.d	12/05/11	17:16
20	6477573	e10223.d	12/05/11	17:41
21	6477574	e10224.d	12/05/11	18:04
22	6477575	e10225.d	12/05/11	18:28
23	6477576	e10226.d	12/05/11	18:52

PCH89 8369

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09572 Calibration Date(s): 11/22/11 11/23/11

Calibration Times: 21:56 00:43

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID:RRF0.5 = ek1122.d RRF1 = ek1128.d RRF5 = ek1127.d RRF15 = ek1126.d
RRF30 = ek1121a.d RRF50 = ek1125.d RRF80 = ek1124.d RRF120 = ek1123.d

	COMPOUND	RRF0.5	RRF1	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	$\overline{RRF}$	% RSD	CAL. METHOD	
	1,4-Dioxane			0.659	0.595	0.539	0.592	0.631	0.591	0.601	7	AVG	
	N-Nitrosodimethylamine			1.064	1.001	0.983	1.043	1.133	1.059	1.047	5	AVG	
	Pyridine			1.981	1.632	1.880	1.695	1.758	1.708	1.776	7	AVG	
	2-Picoline			1.965	1.599	1.810	1.781	1.871	1.812	1.806	7	AVG	
	N-Nitrosomethylethylamine			0.944	0.883	0.950	0.892	0.927	0.883	0.913	3	AVG	
	Methyl methanesulfonate			0.822	0.839	0.911	0.879	0.923	0.866	0.873	5	AVG	
	N-Nitrosodiethylamine		0.895	0.872	0.847	0.946	0.900	0.935	0.887	0.897	4	AVG	
	Ethyl methanesulfonate		0.879	0.810	0.817	0.879	0.870	0.908	0.856	0.860	4	AVG	
	Aniline		2.814	2.894	2.811	3.081	2.892	3.072	2.863	2.918	4	AVG	
*	Phenol		2.522	2.465	2.431	2.673	2.567	2.705	2.523	2.555	4	AVG	*
	bis(2-Chloroethyl)ether		2.014	1.861	1.805	1.940	1.855	1.946	1.840	1.894	4	AVG	
	2-Chlorophenol		1.525	1.600	1.552	1.706	1.635	1.726	1.632	1.625	5	AVG	
	1,3-Dichlorobenzene		1.666	1.589	1.513	1.622	1.561	1.620	1.545	1.588	3	AVG	
*	1,4-Dichlorobenzene		1.668	1.699	1.538	1.677	1.616	1.681	1.581	1.637	4	AVG	*
	Benzyl alcohol			1.240	1.190	1.302	1.245	1.311	1.240	1.255	4	AVG	
	1,2-Dichlorobenzene		1.545	1.542	1.445	1.586	1.506	1.598	1.491	1.531	4	AVG	
	2-Methylphenol		1.606	1.606	1.563	1.703	1.659	1.748	1.655	1.648	4	AVG	
	2,2'-oxybis(1-Chloropropane)		3.472	3.185	2.892	3.091	3.025	3.082	2.883	3.090	6	AVG	
	bis(2-Chloroisopropyl)ether		3.472	3.185	2.892	3.091	3.025	3.082	2.883	3.090	6	AVG	
	N-Nitrosopyrrolidine		0.798	0.977	0.953	1.077	1.039	1.088	1.018	0.993	10	AVG	
	Acetophenone		2.562	2.438	2.346	2.527	2.393	2.503	2.363	2.448	3	AVG	
#	N-Nitroso-di-n-propylamine		1.517	1.555	1.427	1.525	1.477	1.549	1.429	1.497	4	AVG	#
	N-Nitrosomorpholine			1.374	1.282	1.355	1.288	1.359	1.269	1.321	3	AVG	
	4-Methylphenol		1.872	1.866	1.914	2.072	1.986	2.098	1.921	1.961	5	AVG	
	o-Toluidine		2.863	2.817	2.689	2.924	2.810	2.944	2.737	2.826	3	AVG	
	Hexachloroethane			0.651	0.586	0.648	0.618	0.647	0.613	0.627	4	AVG	
	Nitrobenzene		0.444	0.431	0.430	0.460	0.445	0.456	0.432	0.443	3	AVG	
	N-Nitrosopiperidine		0.186	0.196	0.196	0.210	0.202	0.207	0.199	0.199	4	AVG	
	Isophorone		0.850	0.830	0.816	0.864	0.821	0.845	0.806	0.833	3	AVG	
*	2-Nitrophenol		0.166	0.184	0.192	0.204	0.200	0.209	0.201	0.194	8	AVG	*
	2,4-Dimethylphenol		0.367	0.389	0.381	0.411	0.399	0.408	0.387	0.392	4	AVG	
	O,O,O-triethylphosphorothioate			0.165	0.162	0.174	0.168	0.171	0.163	0.167	3	AVG	
	bis(2-Chloroethoxy)methane		0.563	0.505	0.492	0.536	0.492	0.517	0.625	0.533	9	AVG	
	Benzoic acid			0.342	0.363	0.380	0.356	0.375	0.356	0.362	4	AVG	
*	2,4-Dichlorophenol		0.286	0.276	0.276	0.302	0.295	0.306	0.294	0.291	4	AVG	*
	1,2,4-Trichlorobenzene			0.307	0.301	0.314	0.309	0.316	0.303	0.308	2	AVG	
	Naphthalene	1.153	1.138	1.079	1.057	1.129	1.084	1.103	1.043	1.098	4	AVG	
	4-Chloroaniline		0.483	0.475	0.469	0.501	0.489	0.500	0.471	0.484	3	AVG	
	2,6-Dichlorophenol		0.282	0.287	0.278	0.301	0.295	0.304	0.287	0.290	3	AVG	
	Hexachloropropene			0.136	0.141	0.155	0.154	0.164	0.159	0.152	7	AVG	
*	Hexachlorobutadiene		0.148	0.136	0.126	0.134	0.130	0.132	0.127	0.133	5	AVG	*
	Caprolactam			0.147	0.157	0.169	0.162	0.168	0.158	0.160	5	AVG	
	N-Nitrosodi-n-butylamine			0.421	0.385	0.431	0.310	0.317	0.299	0.361	16	2NDDEG	
*	4-Chloro-3-methylphenol		0.373	0.371	0.356	0.385	0.371	0.385	0.363	0.372	3	AVG	*
	Safrole			0.279	0.270	0.296	0.287	0.294	0.281	0.284	3	AVG	
	2-Methylnaphthalene	0.770	0.769	0.740	0.713	0.750	0.730	0.753	0.715	0.743	3	AVG	
	1-Methylnaphthalene	0.699	0.741	0.688	0.680	0.716	0.690	0.710	0.672	0.700	3	AVG	
#	Hexachlorocyclopentadiene			0.162	0.180	0.213	0.215	0.224	0.223	0.203	13	AVG	#
	1,2,4,5-Tetrachlorobenzene		0.474	0.440	0.424	0.447	0.448	0.447	0.441	0.446	3	AVG	
	cis-Isosafrole			0.701	0.671	0.729	0.736	0.756	0.764	0.726	5	AVG	
*	2,4,6-Trichlorophenol		0.339	0.324	0.309	0.348	0.337	0.350	0.340	0.335	4	AVG	*
	2,4,5-Trichlorophenol		0.401	0.380	0.379	0.386	0.389	0.387	0.393	0.388	2	AVG	

PCH89 10378

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: HP09572 Calibration Date(s): 11/22/11 11/23/11

Calibration Times: 21:56 00:43

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID:RRF0.5 = ek1122.d RRF1 = ek1128.d RRF5 = ek1127.d RRF15 = ek1126.d
RRF30 = ek1121a.d RRF50 = ek1125.d RRF80 = ek1124.d RRF120 = ek1123.d

		COMPOUND	RRF0.5	RRF1	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	$\overline{RRF}$	% RSD	CAL. METHOD	
		trans-Isosafrole			0.479	0.508	0.541	0.537	0.541	0.538	0.524	5	AVG	
		Isosafrole			0.427	0.452	0.481	0.478	0.482	0.479	0.467	5	AVG	
		1,1'-Biphenyl		1.463	1.448	1.338	1.454	1.413	1.412	1.373	1.414	3	AVG	
		2-Chloronaphthalene		1.122	1.142	1.440	1.401	1.205	1.524	1.381	1.316	12	AVG	
		1-Chloronaphthalene		1.185	1.176	0.983	1.135	1.094	1.036	1.143	1.108	7	AVG	
		Diphenyl ether		0.766	0.776	0.717	0.759	0.758	0.754	0.747	0.754	2	AVG	
		2-Nitroaniline		0.360	0.366	0.385	0.421	0.428	0.427	0.421	0.401	7	AVG	
		1,4-Naphthoquinone			0.484	0.485	0.506	0.505	0.498	0.482	0.493	2	AVG	
		1,4-Dinitrobenzene			0.170	0.189	0.213	0.219	0.222	0.223	0.206	10	AVG	
		Dimethylphthalate			1.353	1.270	1.313	1.292	1.293	1.266	1.298	2	AVG	
		1,3-Dinitrobenzene			0.212	0.226	0.249	0.250	0.257	0.254	0.241	7	AVG	
		2,6-Dinitrotoluene		0.246	0.293	0.300	0.320	0.320	0.323	0.324	0.304	9	AVG	
		Acenaphthylene	1.588	1.620	1.670	1.621	1.741	1.713	1.707	1.678	1.667	3	AVG	
		3-Nitroaniline		0.329	0.345	0.344	0.371	0.369	0.378	0.374	0.359	5	AVG	
	*	Acenaphthene	1.151	1.181	1.156	1.069	1.134	1.113	1.114	1.107	1.128	3	AVG	*
	#	2,4-Dinitrophenol			0.149	0.177	0.185	0.200	0.207	0.212	0.188	12	AVG	#
		Pentachlorobenzene		0.378	0.359	0.334	0.356	0.344	0.351	0.349	0.353	4	AVG	
	#	4-Nitrophenol			0.159	0.180	0.186	0.191	0.216	0.213	0.191	11	AVG	#
		Dibenzofuran		1.702	1.613	1.533	1.619	1.599	1.577	1.545	1.598	4	AVG	
		2,4-Dinitrotoluene			0.394	0.394	0.425	0.426	0.430	0.424	0.415	4	AVG	
		1-Naphthylamine			1.269	1.245	1.338	1.308	1.317	1.287	1.294	3	AVG	
		2,3,4,6-Tetrachlorophenol		0.211	0.264	0.261	0.262	0.273	0.281	0.275	0.261	9	AVG	
		2-Naphthylamine			1.283	1.278	1.379	1.335	1.313	1.282	1.312	3	AVG	
		Diethylphthalate			1.302	1.242	1.316	1.301	1.291	1.263	1.286	2	AVG	
		Thionazin			0.271	0.255	0.281	0.283	0.277	0.268	0.272	4	AVG	
		Fluorene	1.356	1.294	1.343	1.292	1.384	1.359	1.328	1.282	1.330	3	AVG	
		4-Chlorophenyl-phenylether		0.623	0.617	0.587	0.615	0.611	0.604	0.586	0.606	2	AVG	
		5-Nitro-o-toluidine		0.335	0.452	0.404	0.431	0.452	0.454	0.429	0.422	10	AVG	
		4-Nitroaniline		0.371	0.405	0.389	0.412	0.397	0.403	0.390	0.395	3	AVG	
		4,6-Dinitro-2-methylphenol			0.107	0.131	0.147	0.151	0.160	0.153	0.141	14	AVG	
	*	N-Nitrosodiphenylamine (1)		0.637	0.673	0.641	0.685	0.686	0.686	0.659	0.667	3	AVG	*
		1,2-Diphenylhydrazine		0.877	0.930	0.897	0.951	0.952	0.943	0.912	0.923	3	AVG	
		Tetraethyldithiopyrophosphate			0.119	0.118	0.131	0.129	0.132	0.124	0.125	5	AVG	
		1,3,5-Trinitrobenzene			0.056	0.071	0.092	0.095	0.104	0.098	0.086	21	1STDEG	
		Diallate (peak 1)			0.479	0.450	0.491	0.488	0.488	0.467	0.477	3	AVG	
		Phorate		0.505	0.562	0.557	0.617	0.615	0.618	0.584	0.580	7	AVG	
		Phenacetin		0.414	0.454	0.422	0.460	0.454	0.461	0.441	0.444	4	AVG	
		4-Bromophenyl-phenylether			0.158	0.161	0.166	0.169	0.168	0.165	0.165	3	AVG	
		Diallate (peak 2)			0.313	0.284	0.306	0.288	0.304	0.291	0.298	4	AVG	
		Hexachlorobenzene	0.167	0.162	0.150	0.152	0.155	0.158	0.158	0.152	0.157	4	AVG	
		Dimethoate			0.361	0.353	0.381	0.368	0.355	0.326	0.357	5	AVG	
		Diallate TRANS/CIS			0.437	0.408	0.444	0.438	0.442	0.423	0.432	3	AVG	
	*	Pentachlorophenol		0.085	0.114	0.112	0.123	0.124	0.126	0.123	0.115	12	AVG	*
		Pentachloronitrobenzene			0.060	0.065	0.071	0.074	0.073	0.069	0.069	7	AVG	
		4-Aminobiphenyl		0.597	0.644	0.617	0.659	0.619	0.598	0.530	0.609	7	AVG	
		Pronamide		0.239	0.296	0.311	0.342	0.340	0.350	0.336	0.316	12	AVG	
		Dinoseb			0.123	0.164	0.200	0.206	0.218	0.215	0.188	20	1STDEG	+
		Phenanthrene	1.197	1.228	1.146	1.068	1.149	1.136	1.147	1.077	1.143	5	AVG	
		Anthracene	1.096	1.082	1.106	1.104	1.170	1.170	1.182	1.115	1.128	3	AVG	
		Carbazole		1.109	1.100	1.068	1.146	1.107	1.127	1.064	1.103	3	AVG	
		Methyl parathion			0.225	0.249	0.285	0.272	0.267	0.249	0.258	8	AVG	
		Di-n-butylphthalate			1.219	1.219	1.332	1.315	1.336	1.254	1.279	4	AVG	

+ %RSD is less than or equal to 20%; however, value rounds to 20.
(1) Cannot be separated from Diphenylamine

FCH09 0321

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09572 Calibration Date(s): 11/22/11 11/23/11

Calibration Times: 21:56 00:43

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

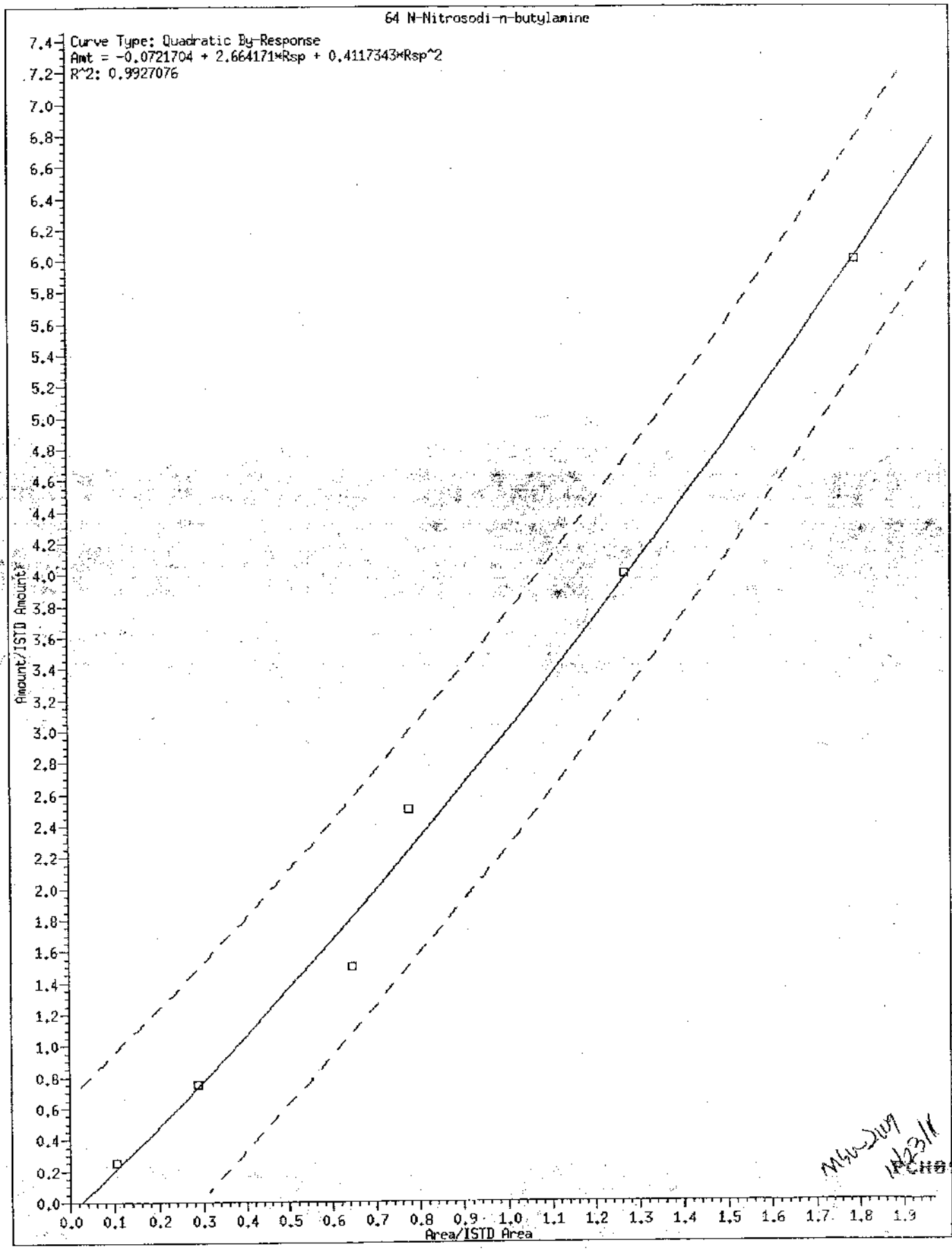
LAB FILE ID:RRF0.5 = ek1122.d RRF1 = ek1128.d RRF5 = ek1127.d RRF15 = ek1126.d
RRF30 = ek1121a.d RRF50 = ek1125.d RRF80 = ek1124.d RRF120 = ek1123.d

	COMPOUND	RRF0.5	RRF1	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	$\overline{RRF}$	% RSD	CAL. METHOD	
	Parathion			0.138	0.155	0.182	0.182	0.186	0.180	0.170	11	AVG	
	4-Nitroquinoline-1-oxide			0.059	0.084	0.120	0.125	0.130	0.121	0.107	27	1STDEG	
	Isodrin		0.112	0.113	0.119	0.126	0.123	0.128	0.123	0.120	5	AVG	
*	Fluoranthene	1.008	1.064	1.103	1.066	1.163	1.160	1.161	1.085	1.101	5	AVG	*
	Benzidine			0.549	0.629	0.749	0.688	0.693	0.651	0.660	10	AVG	
	Pyrene	1.124	1.208	1.087	1.052	1.092	1.076	1.070	1.046	1.094	5	AVG	
	p-Dimethylaminoazobenzene		0.126	0.175	0.190	0.213	0.214	0.214	0.212	0.192	17	1STDEG	
	Chlorobenzilate		0.257	0.317	0.312	0.338	0.332	0.340	0.330	0.318	9	AVG	
	3,3'-Dimethylbenzidine			0.381	0.499	0.630	0.583	0.596	0.594	0.547	17	1STDEG	
	Butylbenzylphthalate			0.473	0.477	0.525	0.523	0.529	0.514	0.507	5	AVG	
	2-Acetylaminofluorene			0.376	0.399	0.454	0.456	0.463	0.458	0.434	9	AVG	
	3,3'-Dichlorobenzidine			0.254	0.271	0.315	0.314	0.316	0.301	0.295	9	AVG	
	4,4'-Methylenebis(2-Chloroanil			0.137	0.147	0.170	0.166	0.169	0.160	0.158	8	AVG	
	Benzo(a)anthracene	0.750	0.787	0.839	0.835	0.903	0.891	0.902	0.851	0.845	7	AVG	
	Chrysene	0.867	0.832	0.899	0.861	0.879	0.888	0.879	0.864	0.871	2	AVG	
	bis(2-Ethylhexyl)phthalate			0.610	0.619	0.700	0.697	0.712	0.704	0.674	7	AVG	
	6-Methylchrysene			0.566	0.574	0.622	0.630	0.638	0.622	0.609	5	AVG	
*	Di-n-octylphthalate			1.279	1.469	1.706	1.742	1.851	1.784	1.638	13	AVG	*
	Dibenz(a,h)acridine			0.674	0.722	0.803	0.838	0.888	0.830	0.793	10	AVG	
	Dibenz(a,j)acridine			0.811	0.824	0.906	0.901	0.939	0.905	0.881	6	AVG	
	7,12-Dimethylbenz[a]anthracene		0.384	0.460	0.526	0.579	0.585	0.616	0.579	0.533	16	1STDEG	
	Benzo(b)fluoranthene	0.912	1.026	1.132	1.145	1.289	1.309	1.384	1.310	1.188	14	AVG	
	Quinoline			0.765	0.725	0.785	0.748	0.765	0.727	0.752	3	AVG	
	Benzo(k)fluoranthene	1.075	1.179	1.175	1.207	1.255	1.246	1.274	1.211	1.203	5	AVG	
*	Benzo(a)pyrene	1.000	0.850	0.966	1.040	1.137	1.124	1.174	1.125	1.052	10	AVG	*
	NDPA as diphenylamine			0.673	0.641	0.685	0.686	0.686	0.659	0.672	3	AVG	
	3-Methylcholanthrene		0.364	0.480	0.505	0.565	0.575	0.596	0.577	0.523	16	1STDEG	
	Indeno(1,2,3-cd)pyrene	0.978	0.956	1.052	1.080	1.153	1.146	1.201	1.150	1.089	8	AVG	
	Dibenz(a,h)anthracene	0.874	0.816	0.874	0.910	0.979	0.998	1.028	0.981	0.933	8	AVG	
	Benzo(g,h,i)perylene	0.898	0.865	0.862	0.901	0.952	0.983	1.018	0.963	0.930	6	AVG	
	Indene			2.477	2.433	2.701	2.596	2.709	2.574	2.580	4	AVG	
	2-Fluorophenol			1.464	1.468	1.602	1.535	1.635	1.559	1.544	4	AVG	
	Phenol-d5			2.162	2.109	2.325	2.214	2.371	2.221	2.234	4	AVG	
	Phenol-d6			2.162	2.109	2.325	2.214	2.371	2.221	2.234	4	AVG	
	Nitrobenzene-d5			0.429	0.416	0.451	0.435	0.449	0.426	0.434	3	AVG	
	2-Fluorobiphenyl			1.249	1.163	1.241	1.211	1.207	1.189	1.210	3	AVG	
	2,4,6-Tribromophenol			0.111	0.113	0.120	0.123	0.123	0.124	0.119	5	AVG	
	Terphenyl-d14			0.600	0.576	0.616	0.610	0.619	0.599	0.603	3	AVG	

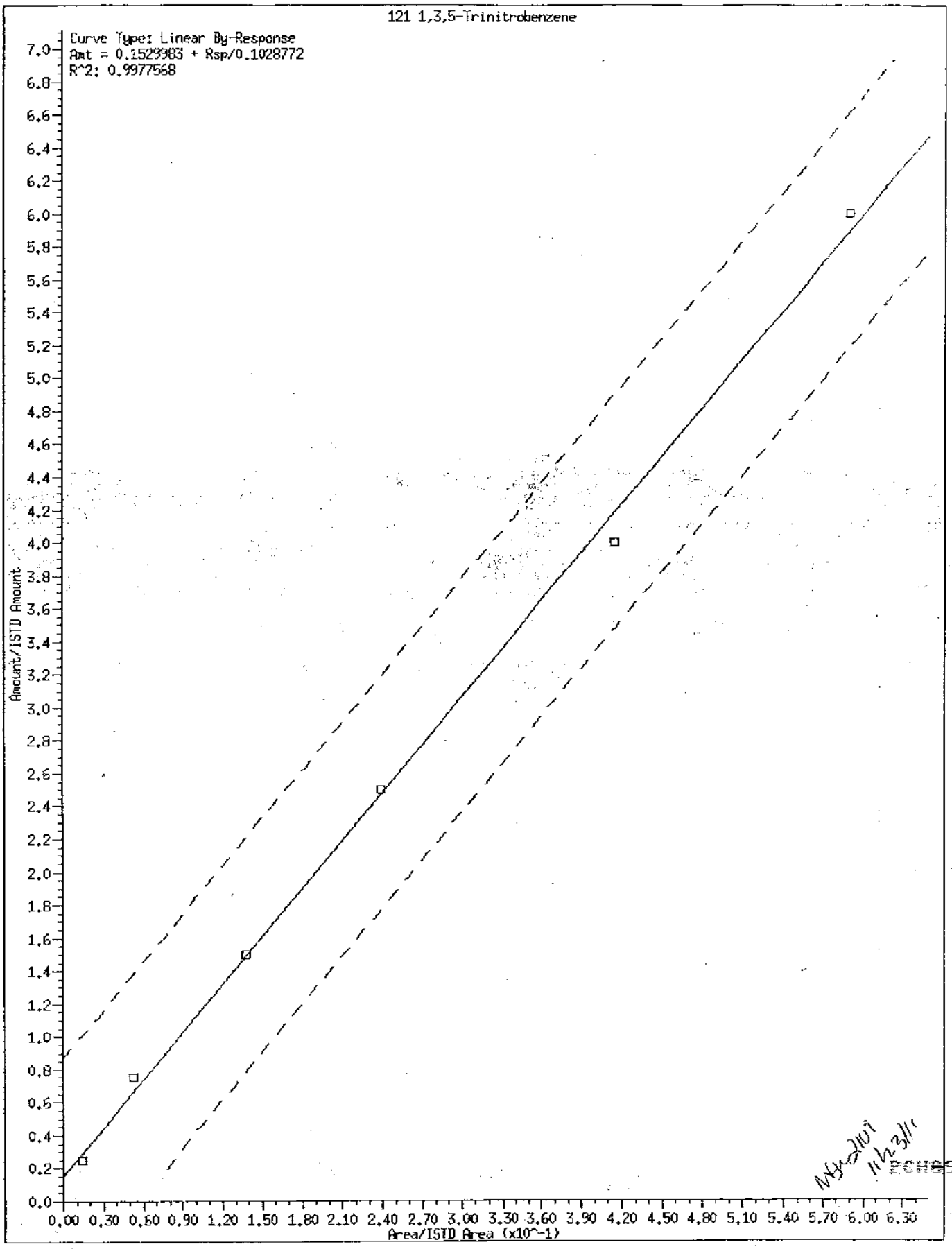
Average %RSD 6

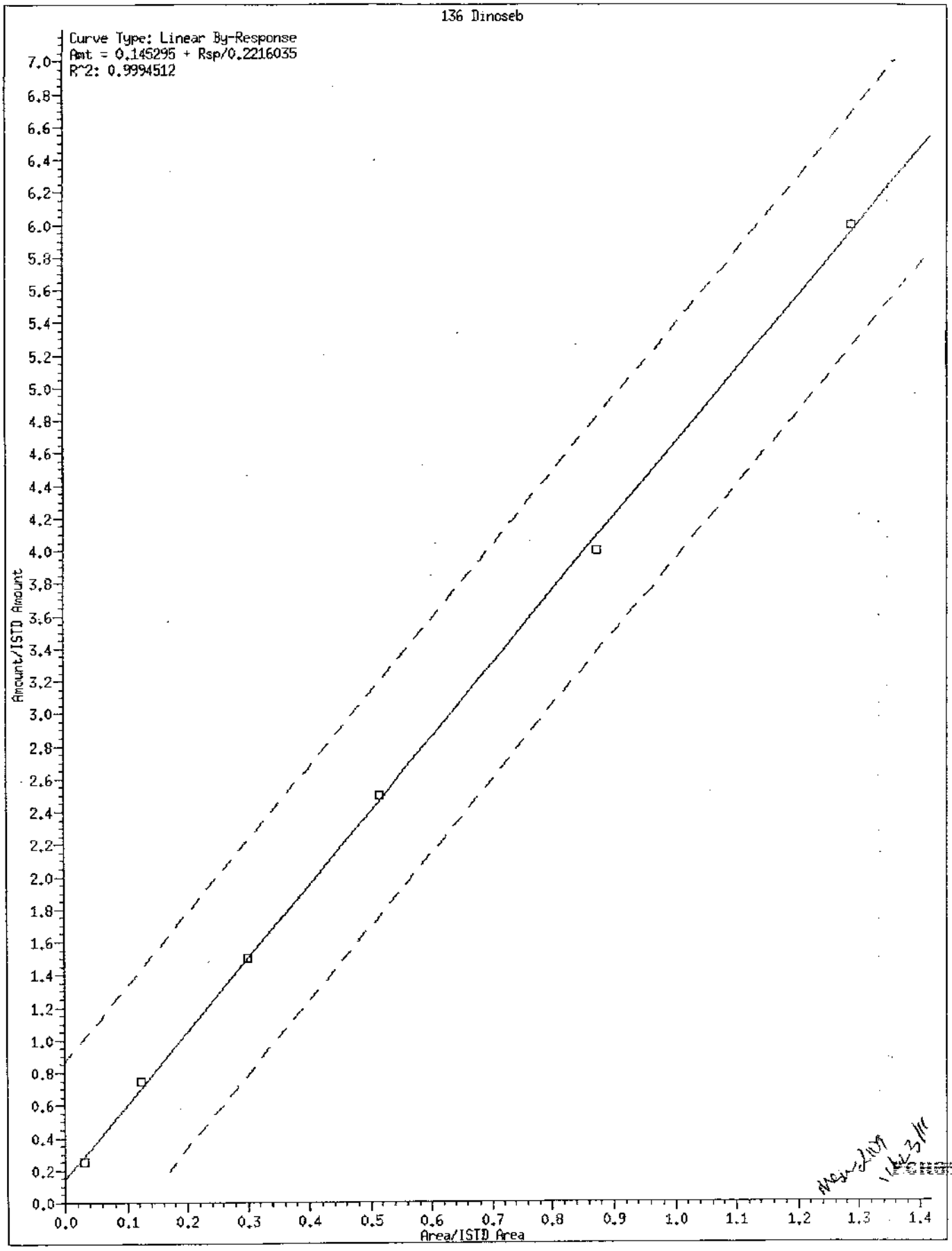
4,6-Dinitro-2-methylphenol and 4-Nitrophenol are at 10 ng/ul in the 5 standard.
Benzidine Levels in the 5,15,30,50,80,120 standards are 15,45,90,150,240,360 ng/ul, respectively.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul, 30 ng/ul,40 ng/ul in the 5,15,30 standards.

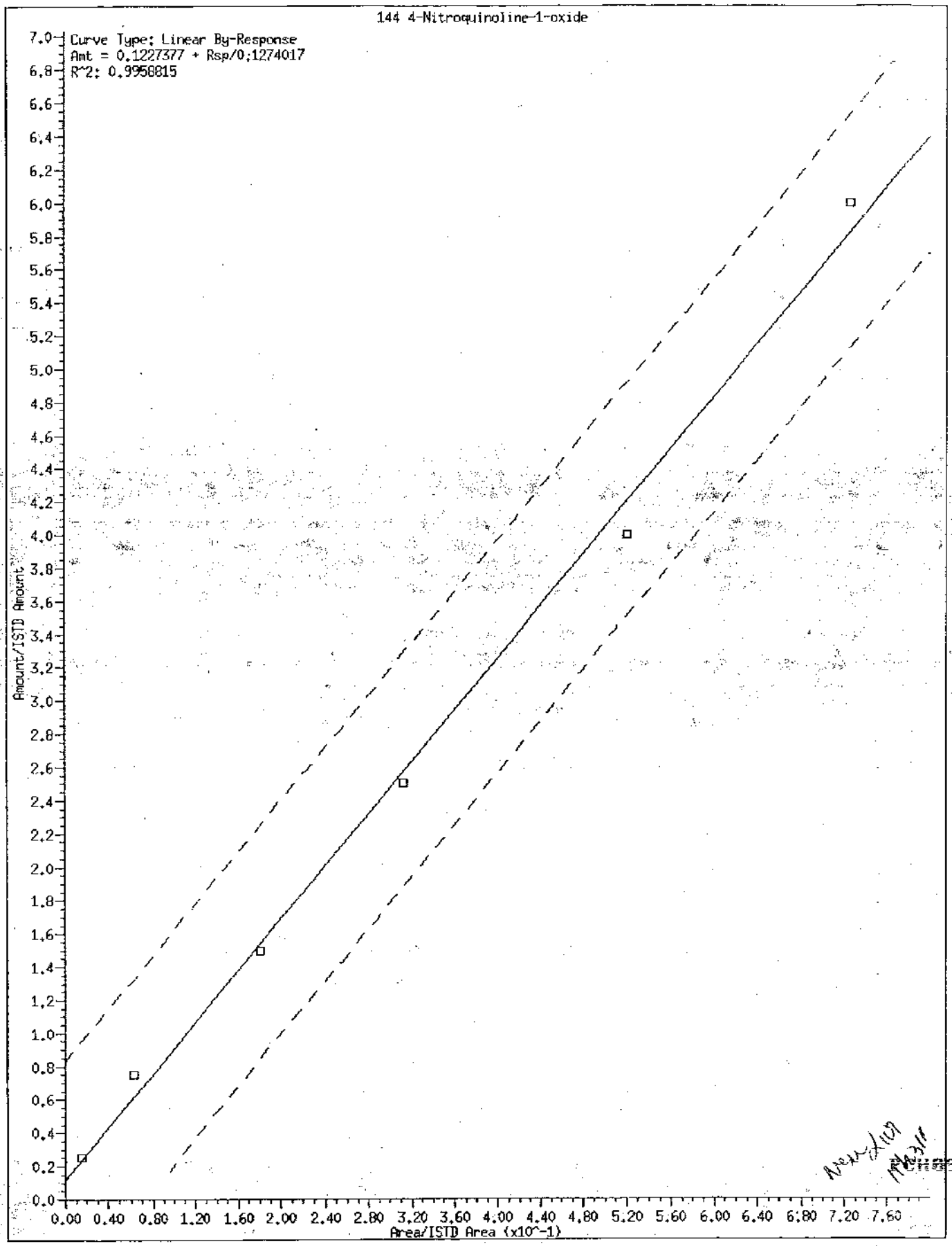
FQN89 8872


64 N-Nitrosodi-n-butylamine
Curve Type: Quadratic By-Response
Amt = -0.0721704 + 2.664171*Rsp + 0.4117343*Rsp^2
R^2: 0.9927076
Amount/ISTD Amount
Area/ISTD Area
7.4
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 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9

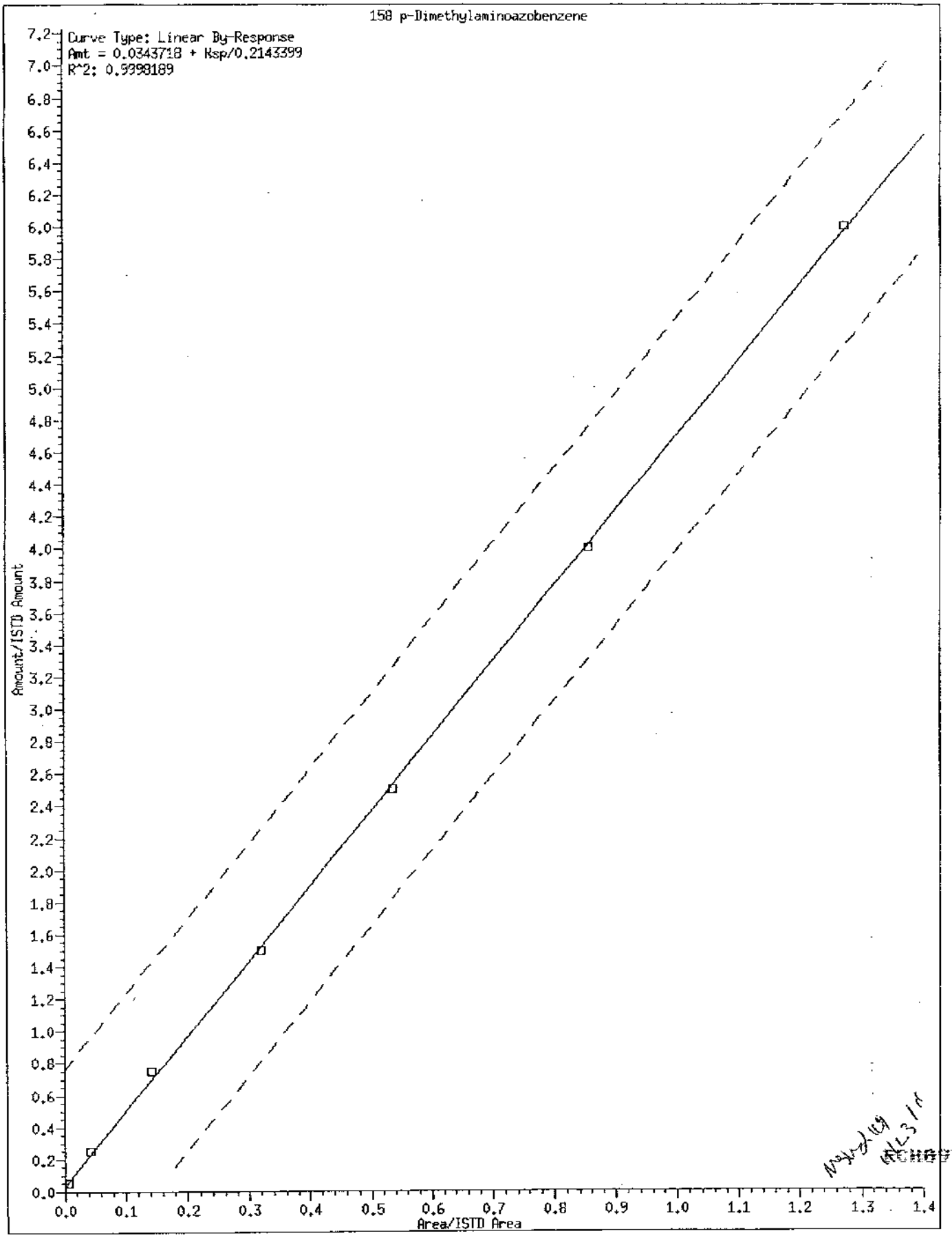
PCN89 8373

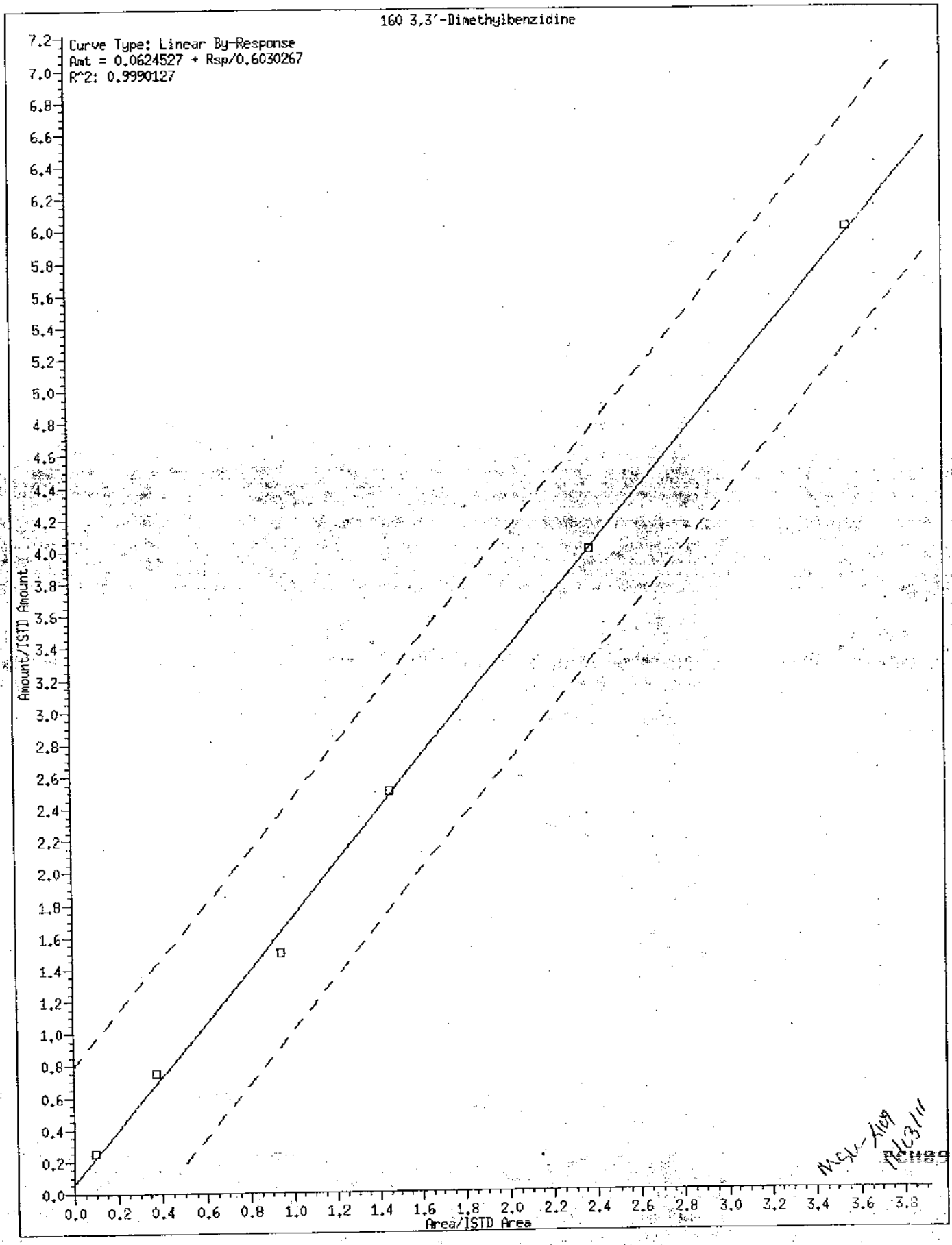

121 1,3,5-Trinitrobenzene
Curve Type: Linear By-Response
Amt = 0.1523983 + Rsp/0.1028772
R^2: 0.9977568
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00 6.30
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 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 7.0

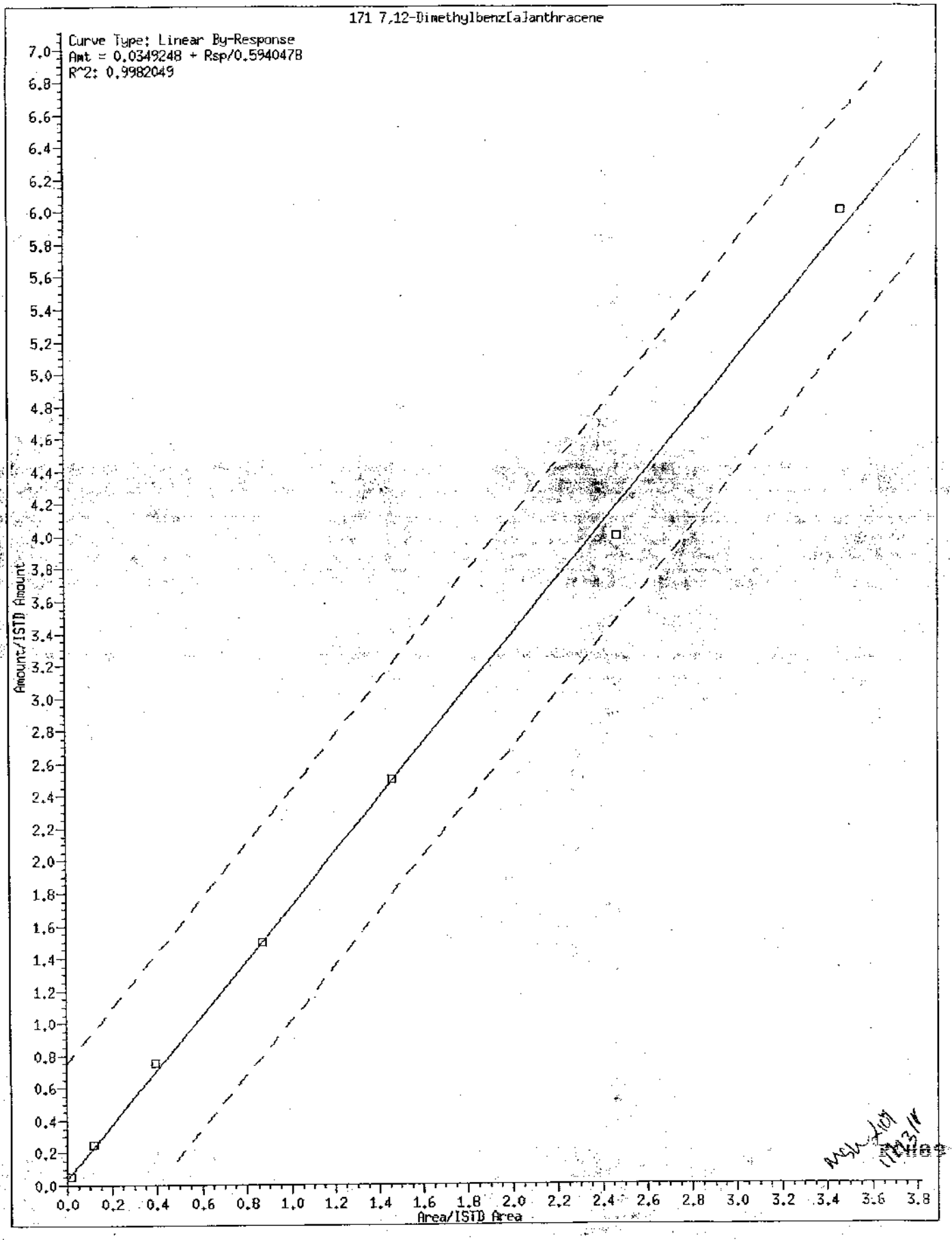

136 Dinoseb
Curve Type: Linear By-Response
Amt = 0.145295 + Rsp/0.2216035
R^2: 0.9994512
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4

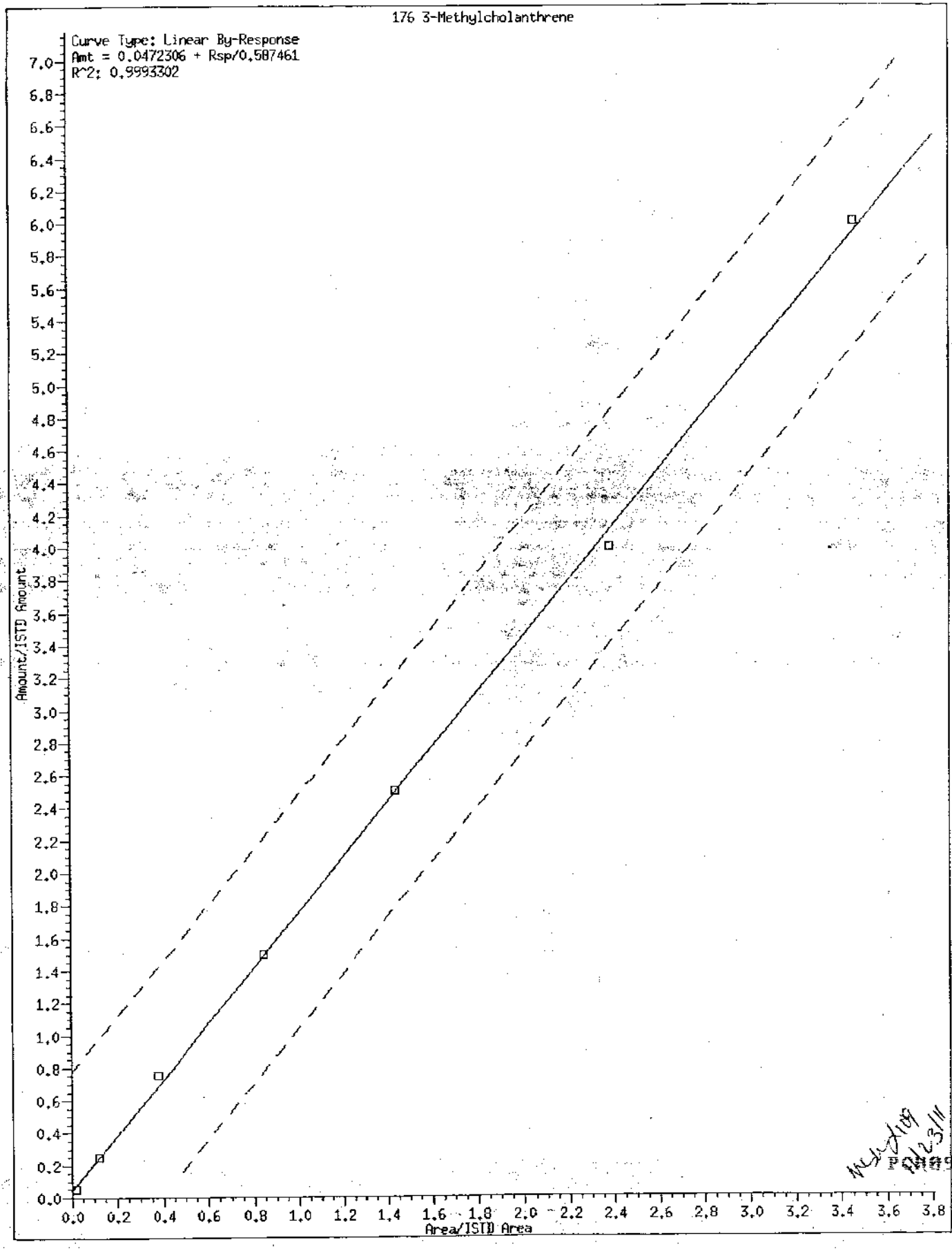


ARCHIVE 8376


158 p-Dimethylaminoazobenzene
Curve Type: Linear By-Response
Amt = 0.0343718 + Rsp/0.2143399
R^2: 0.9998189
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
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
7.0
7.2


160 3,3'-Dimethylbenzidine
Curve Type: Linear By-Response
Amt = 0.0624527 + Rsp/0.6030267
R^2: 0.9990127
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
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 7.0 7.2


171 7,12-Dimethylbenz[a]anthracene
Curve Type: Linear By-Response
Amt = 0.0349248 + Rsp/0.5940478
R^2: 0.9982049
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
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 7.0


176 3-Methylcholanthrene
Curve Type: Linear By-Response
Amt = 0.0472306 + Rsp/0.587461
R^2: 0.9993302
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
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 7.0

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09572.i/11nov22b.b/ek1121a.d SSTD030
/chem/HP09572.i/11nov22b.b/ek1122.d SSTD0.5
/chem/HP09572.i/11nov22b.b/ek1123.d SSTD120
/chem/HP09572.i/11nov22b.b/ek1124.d SSTD080
/chem/HP09572.i/11nov22b.b/ek1125.d SSTD050
/chem/HP09572.i/11nov22b.b/ek1126.d SSTD015
/chem/HP09572.i/11nov22b.b/ek1127.d SSTD005
/chem/HP09572.i/11nov22b.b/ek1128.d SSTD001

Area Summary

	File ID:								
Internal Standard Name	ek1121a.d	ek1122.d	ek1123.d	ek1124.d	ek1125.d	ek1126.d	ek1127.d	ek1128.d	Avg. Area	%RSD
1,4-Dichlorobenzene-d4	110510	86607	111524	103487	114946	109758	104418	97993	104905	9
Naphthalene-d8	507749	385894	510297	484041	522573	497792	476397	427967	476589	10
Acenaphthene-d10	326029	243182	314284	311866	327989	321472	304928	282479	304028	9
Phenanthrene-d10	560418	443549	546422	530039	557720	558897	518020	500879	529493	8
Pyrene-d10	646825	500702	624668	613860	643177	640982	628581	578478	608409	8
Perylene-d12	424995	331672	401601	389792	423194	420016	422458	376715	398805	8

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

RT Summary

	File ID:							
Internal Standard Name	ek1121a.d	ek1122.d	ek1123.d	ek1124.d	ek1125.d	ek1126.d	ek1127.d	ek1128.d
1,4-Dichlorobenzene-d4	5.215	5.215	5.215	5.215	5.215	5.215	5.215	5.215
Naphthalene-d8	6.352	6.346	6.352	6.352	6.352	6.346	6.346	6.346
Acenaphthene-d10	7.823	7.823	7.829	7.823	7.823	7.823	7.823	7.823
Phenanthrene-d10	9.044	9.038	9.044	9.044	9.044	9.038	9.038	9.038
Pyrene-d10	10.198	10.198	10.204	10.204	10.198	10.198	10.198	10.198
Perylene-d12	12.800	12.801	12.807	12.807	12.807	12.801	12.800	12.801

Comments: _____

Report generated on 11/23/2011 at 09:29

MG 11/23/11

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C (LL) File ID: ek1131.d

ICV SAMPLE ID: ICV2691 BATCH: 11NOV22B026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
1,4-Dioxane	50.00	46.96	-6	30	YES
N-Nitrosodimethylamine	50.00	47.31	-5	30	YES
Pyridine	50.00	45.39	-9	30	YES
2-Picoline	50.00	48.79	-2	30	YES
N-Nitrosomethylethylamine	50.00	50.10	0	30	YES
Methyl methanesulfonate	50.00	55.96	12	30	YES
2-Fluorophenol	50.00	47.45	-5	30	YES
N-Nitrosodiethylamine	50.00	50.87	2	30	YES
Ethyl methanesulfonate	50.00	51.89	4	30	YES
Aniline	50.00	48.84	-2	30	YES
Phenol-d5	50.00	47.21	-6	30	YES
Phenol-d6	50.00	47.21	-6	30	YES
Phenol	50.00	50.00	0	30	YES
bis(2-Chloroethyl)ether	50.00	47.40	-5	30	YES
2-Chlorophenol	50.00	48.81	-2	30	YES
1,3-Dichlorobenzene	50.00	49.80	0	30	YES
1,4-Dichlorobenzene	50.00	49.36	-1	30	YES
Benzyl alcohol	50.00	48.46	-3	30	YES
1,2-Dichlorobenzene	50.00	49.58	-1	30	YES
2-Methylphenol	50.00	50.68	1	30	YES
2,2'-oxybis(1-Chloropropane	50.00	46.13	-8	30	YES
bis(2-Chloroisopropyl)ether	50.00	46.13	-8	30	YES
N-Nitrosopyrrolidine	50.00	53.30	7	30	YES
Acetophenone	50.00	48.15	-4	30	YES
N-Nitroso-di-n-propylamine	50.00	49.02	-2	30	YES
N-Nitrosomorpholine	50.00	50.01	0	30	YES
4-Methylphenol	50.00	50.05	0	30	YES
o-Toluidine	50.00	49.08	-2	30	YES
Hexachloroethane	50.00	47.39	-5	30	YES
Nitrobenzene-d5	50.00	47.24	-6	30	YES
Nitrobenzene	50.00	48.37	-3	30	YES
N-Nitrosopiperidine	50.00	53.08	6	30	YES
Isophorone	50.00	48.47	-3	30	YES
2-Nitrophenol	50.00	50.80	2	30	YES
2,4-Dimethylphenol	50.00	49.93	0	30	YES
O,O,O-triethylphosphorothio	50.00	52.92	6	30	YES
bis(2-Chloroethoxy)methane	50.00	45.47	-9	30	YES

NC = Could not calculate

Comments: _____

PCH89 8382

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C (LL) File ID: ek1131.d

ICV SAMPLE ID: ICV2691 BATCH: 11NOV228026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Benzoic acid	50.00	48.31	-3	30	YES
2,4-Dichlorophenol	50.00	51.25	3	30	YES
1,2,4-Trichlorobenzene	50.00	50.21	0	30	YES
Naphthalene	50.00	48.08	-4	30	YES
4-Chloroaniline	50.00	52.24	4	30	YES
2,6-Dichlorophenol	50.00	52.79	6	30	YES
Hexachloropropene	50.00	54.13	8	30	YES
Hexachlorobutadiene	50.00	47.60	-5	30	YES
N-Nitrosodi-n-butylamine	50.00	46.77	-6	30	YES
4-Chloro-3-methylphenol	50.00	49.88	0	30	YES
Safrole	50.00	52.28	5	30	YES
2-Methylnaphthalene	50.00	48.93	-2	30	YES
1-Methylnaphthalene	50.00	48.80	-2	30	YES
Hexachlorocyclopentadiene	100.00	104.31	4	30	YES
1,2,4,5-Tetrachlorobenzene	50.00	48.46	-3	30	YES
cis-Isosafrole	5.50	5.95	8	30	YES
2,4,6-Trichlorophenol	50.00	50.95	2	30	YES
2,4,5-Trichlorophenol	50.00	46.71	-7	30	YES
2-Fluorobiphenyl	50.00	46.90	-6	30	YES
trans-Isosafrole	44.50	46.85	5	30	YES
Isosafrole	50.00	52.64	5	30	YES
1,1'-Biphenyl	50.00	49.16	-2	30	YES
2-Chloronaphthalene	50.00	38.54	-23	30	YES
Diphenyl ether	50.00	48.92	-2	30	YES
2-Nitroaniline	50.00	51.31	3	30	YES
1,4-Naphthoquinone	62.50	60.41	-3	30	YES
1,4-Dinitrobenzene	50.00	50.72	1	30	YES
Dimethylphthalate	50.00	47.63	-5	30	YES
1,3-Dinitrobenzene	50.00	52.12	4	30	YES
2,6-Dinitrotoluene	50.00	50.12	0	30	YES
Acenaphthylene	50.00	50.41	1	30	YES
3-Nitroaniline	50.00	51.04	2	30	YES
Acenaphthene	50.00	47.50	-5	30	YES
2,4-Dinitrophenol	50.00	48.85	-2	30	YES
Pentachlorobenzene	50.00	50.87	2	30	YES
4-Nitrophenol	50.00	53.63	7	30	YES
Dibenzofuran	50.00	48.85	-2	30	YES

NC = Could not calculate

Comments:

PCN89 8383

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C (LL) File ID: ek1131.d

ICV SAMPLE ID: ICV2691 BATCH: 11NOV22B026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
2,4-Dinitrotoluene	50.00	49.15	-2	30	YES
1-Naphthylamine	100.00	97.02	-3	30	YES
2,3,4,6-Tetrachlorophenol	50.00	52.08	4	30	YES
2-Naphthylamine	100.00	96.43	-4	30	YES
Diethylphthalate	50.00	47.22	-6	30	YES
Thionazin	50.00	52.11	4	30	YES
Fluorene	50.00	49.29	-1	30	YES
4-Chlorophenyl-phenylether	50.00	47.75	-4	30	YES
5-Nitro-o-toluidine	50.00	52.35	5	30	YES
4-Nitroaniline	50.00	49.46	-1	30	YES
4,6-Dinitro-2-methylphenol	50.00	49.46	-1	30	YES
N-Nitrosodiphenylamine	50.00	50.21	0	30	YES
1,2-Diphenylhydrazine	50.00	48.36	-3	30	YES
2,4,6-Tribromophenol	50.00	48.63	-3	30	YES
Tetraethyldithiopyrophospha	50.00	49.67	-1	30	YES
1,3,5-Trinitrobenzene	50.00	48.03	-4	30	YES
Diallate (peak 1)	37.50	35.78	-5	30	YES
Phorate	50.00	51.76	4	30	YES
Phenacetin	50.00	50.74	1	30	YES
4-Bromophenyl-phenylether	50.00	47.38	-5	30	YES
Diallate (peak 2)	12.50	11.89	-5	30	YES
Hexachlorobenzene	50.00	46.83	-6	30	YES
Dimethoate	50.00	49.05	-2	30	YES
Diallate TRANS/CIS	50.00	47.68	-5	30	YES
Pentachlorophenol	50.00	53.37	7	30	YES
Pentachloronitrobenzene	50.00	52.59	5	30	YES
4-Aminobiphenyl	50.00	72.61	45	30	NO +
Pronamide	50.00	53.12	6	30	YES
Dinoseb	50.00	49.87	0	30	YES
Phenanthrene	50.00	46.14	-8	30	YES
Anthracene	50.00	48.43	-3	30	YES
Carbazole	50.00	49.21	-2	30	YES
Methyl parathion	50.00	52.08	4	30	YES
Di-n-butylphthalate	50.00	48.06	-4	30	YES
Parathion	50.00	53.36	7	30	YES
4-Nitroquinoline-1-oxide	550.00	732.77	33	30	NO +
Isodrin	50.00	52.52	5	30	YES

NC = Could not calculate

Comments: + non-CCC <50% OK

Cm/1237 11-23-11

PCH89 8384

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP09572

Method: SW-846 8270C (LL) File ID: ek1131.d

ICV SAMPLE ID: ICV2691 BATCH: 11NOV22B026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Fluoranthene	50.00	51.02	2	30	YES
Benzidine	250.00	242.62	-3	30	YES
Pyrene	50.00	47.28	-5	30	YES
Terphenyl-d14	50.00	47.71	-5	30	YES
p-Dimethylaminoazobenzene	50.00	52.84	6	30	YES
Chlorobenzilate	50.00	52.96	6	30	YES
3,3'-Dimethylbenzidine	50.00	48.42	-3	30	YES
Butylbenzylphthalate	50.00	49.75	-1	30	YES
2-Acetylaminofluorene	50.00	54.58	9	30	YES
3,3'-Dichlorobenzidine	50.00	47.94	-4	30	YES
4,4'-Methylenebis(2-Chloroa	50.00	48.25	-4	30	YES
Benzo(a)anthracene	50.00	50.26	1	30	YES
Chrysene	50.00	49.89	0	30	YES
bis(2-Ethylhexyl)phthalate	50.00	50.25	0	30	YES
Di-n-octylphthalate	50.00	51.27	3	30	YES
7,12-Dimethylbenz[a]anthrac	50.00	49.47	-1	30	YES
Benzo(b)fluoranthene	50.00	51.34	3	30	YES
Benzo(k)fluoranthene	50.00	50.45	1	30	YES
Benzo(a)pyrene	50.00	52.61	5	30	YES
3-Methylcholanthrene	50.00	50.62	1	30	YES
Indeno(1,2,3-cd)pyrene	50.00	51.51	3	30	YES
Dibenz(a,h)anthracene	50.00	51.37	3	30	YES
Benzo(g,h,i)perylene	50.00	50.34	1	30	YES
6-Methylchrysene	50.00	50.56	1	30	YES
Dibenz(a,h)acridine	50.00	47.21	-6	30	YES
Dibenz(a,j)acridine	50.00	53.67	7	30	YES
Quinoline	50.00	50.05	0	30	YES
Indene	50.00	47.42	-5	30	YES

NC = Could not calculate

Comments: _____

PCH65 8385

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09572 Calibration Date: 12/05/11 Time: 08:17

Lab File ID: el0201.d Init. Calib. Date(s): 11/22/11 11/23/11

Init. Calib. Times(s): 21:56 00:43

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.601	0.582	29.030	30.0	-3
	N-Nitrosodimethylamine	1.047	0.838	24.020	30.0	-20
	Pyridine	1.776	1.624	27.440	30.0	-9
	2-Picoline	1.806	1.859	30.870	30.0	3
	N-Nitrosomethylethylamine	0.913	0.778	25.580	30.0	-15
	Methyl methanesulfonate	0.873	0.919	31.560	30.0	5
	N-Nitrosodiethylamine	0.897	0.865	28.920	30.0	-4
	Ethyl methanesulfonate	0.860	0.870	30.340	30.0	1
	Aniline	2.918	2.764	28.410	30.0	-5
*	Phenol	2.555	2.306	27.070	30.0	-10*
	bis(2-Chloroethyl)ether	1.894	1.791	28.360	30.0	-5
	2-Chlorophenol	1.625	1.657	30.580	30.0	2
	1,3-Dichlorobenzene	1.588	1.595	30.130	30.0	0
*	1,4-Dichlorobenzene	1.637	1.665	30.520	30.0	2*
	Benzyl alcohol	1.255	1.131	27.050	30.0	-10
	1,2-Dichlorobenzene	1.531	1.561	30.610	30.0	2
	2-Methylphenol	1.648	1.596	29.050	30.0	-3
	2,2'-oxybis(1-Chloropropane)	3.090	2.453	23.820	30.0	-21
	bis(2-Chloroisopropyl)ether	3.090	2.453	23.820	30.0	-21
	N-Nitrosopyrrolidine	0.993	1.011	30.560	30.0	2
	Acetophenone	2.448	2.355	28.870	30.0	-4
#	N-Nitroso-di-n-propylamine	1.497	1.348	27.030	30.0	-10#
	N-Nitrosomorpholine	1.321	1.163	26.400	30.0	-12
	4-Methylphenol	1.961	1.763	26.980	30.0	-10
	o-Toluidine	2.826	2.700	28.650	30.0	-4
	Hexachloroethane	0.627	0.597	28.570	30.0	-5
	Nitrobenzene	0.443	0.397	26.880	30.0	-10
	N-Nitrosopiperidine	0.199	0.196	29.520	30.0	-2
	Isophorone	0.833	0.747	26.910	30.0	-10
*	2-Nitrophenol	0.194	0.207	32.110	30.0	7*
	2,4-Dimethylphenol	0.392	0.386	29.540	30.0	-2
	O,O,O-triethylphosphorothioate	0.167	0.176	31.630	30.0	5
	bis(2-Chloroethoxy)methane	0.533	0.477	26.860	30.0	-10
	Benzoic acid	0.362	0.296	32.730	40.0	-18
*	2,4-Dichlorophenol	0.291	0.295	30.380	30.0	1*
	1,2,4-Trichlorobenzene	0.308	0.313	30.430	30.0	1

PCH89 8396

FORM VII SV-1

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09572 Calibration Date: 12/05/11 Time: 08:17

Lab File ID: el0201.d Init. Calib. Date(s): 11/22/11 11/23/11

Init. Calib. Times(s): 21:56 00:43

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	Naphthalene	1.098	1.058	28.910	30.0	-4
	4-Chloroaniline	0.484	0.465	28.830	30.0	-4
	2,6-Dichlorophenol	0.290	0.295	30.430	30.0	1
	Hexachloropropene	0.152	0.158	31.300	30.0	4
*	Hexachlorobutadiene	0.133	0.135	30.290	30.0	1*
	Caprolactam	0.160	0.167	31.250	30.0	4
	N-Nitrosodi-n-butylamine	0.361	0.383	31.860	30.0	6
*	4-Chloro-3-methylphenol	0.372	0.364	29.380	30.0	-2*
	Safrole	0.284	0.289	30.470	30.0	2
	2-Methylnaphthalene	0.743	0.732	29.570	30.0	-1
	1-Methylnaphthalene	0.700	0.703	30.170	30.0	1
#	Hexachlorocyclopentadiene	0.203	0.197	29.150	30.0	-3#
	1,2,4,5-Tetrachlorobenzene	0.446	0.446	30.030	30.0	0
	cis-Isosafrole	0.726	0.745	3.390	3.3	3
*	2,4,6-Trichlorophenol	0.335	0.339	30.360	30.0	1*
	2,4,5-Trichlorophenol	0.388	0.383	29.650	30.0	-1
	trans-Isosafrole	0.524	0.491	25.030	26.7	-6
	Isosafrole	0.467	0.437	28.130	30.0	-6
	1,1'-Biphenyl	1.414	1.401	29.720	30.0	-1
	2-Chloronaphthalene	1.316	1.388	31.620	30.0	5
	1-Chloronaphthalene	1.108	1.059	28.690	30.0	-4
	Diphenyl ether	0.754	0.739	29.400	30.0	-2
	2-Nitroaniline	0.401	0.417	31.220	30.0	4
	1,4-Naphthoquinone	0.493	0.492	29.890	30.0	0
	1,4-Dinitrobenzene	0.206	0.217	31.680	30.0	6
	Dimethylphthalate	1.298	1.285	29.700	30.0	-1
	1,3-Dinitrobenzene	0.241	0.258	32.050	30.0	7
	2,6-Dinitrotoluene	0.304	0.323	31.950	30.0	7
	Acenaphthylene	1.667	1.660	29.860	30.0	0
	3-Nitroaniline	0.359	0.377	31.520	30.0	5
*	Acenaphthene	1.128	1.098	29.210	30.0	-3*
#	2,4-Dinitrophenol	0.188	0.185	39.370	40.0	-2#
	Pentachlorobenzene	0.353	0.365	30.980	30.0	3
#	4-Nitrophenol	0.191	0.185	29.060	30.0	-3#
	Dibenzofuran	1.598	1.550	29.090	30.0	-3
	2,4-Dinitrotoluene	0.415	0.439	31.690	30.0	6

PCH89 83887

FORM VII SV-1

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09572 Calibration Date: 12/05/11 Time: 08:17

Lab File ID: el0201.d Init. Calib. Date(s): 11/22/11 11/23/11

Init. Calib. Times(s): 21:56 00:43

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1-Naphthylamine	1.294	1.312	30.430	30.0	1
	2,3,4,6-Tetrachlorophenol	0.261	0.282	32.380	30.0	8
	2-Naphthylamine	1.312	1.342	30.680	30.0	2
	Diethylphthalate	1.286	1.284	29.940	30.0	0
	Thionazin	0.272	0.269	29.610	30.0	-1
	Fluorene	1.330	1.354	30.540	30.0	2
	4-Chlorophenyl-phenylether	0.606	0.595	29.450	30.0	-2
	5-Nitro-o-toluidine	0.422	0.453	32.180	30.0	7
	4-Nitroaniline	0.395	0.402	30.520	30.0	2
	4,6-Dinitro-2-methylphenol	0.141	0.148	31.390	30.0	5
*	N-Nitrosodiphenylamine (1)	0.667	0.686	30.850	30.0	3*
	1,2-Diphenylhydrazine	0.923	0.830	26.980	30.0	-10
	Tetraethyldithiopyrophosphate	0.125	0.118	28.150	30.0	-6
	1,3,5-Trinitrobenzene	0.086	0.099	31.820	30.0	6
	Diallate (peak 1)	0.477	0.409	19.290	22.5	-14
	Phorate	0.580	0.746	38.600	30.0	29
	Phenacetin	0.444	0.431	29.110	30.0	-3
	4-Bromophenyl-phenylether	0.165	0.176	32.050	30.0	7
	Diallate (peak 2)	0.298	0.258	6.490	7.5	-13
	Hexachlorobenzene	0.157	0.170	32.600	30.0	9
	Dimethoate	0.357	0.388	32.570	30.0	9
	Diallate TRANS/CIS	0.432	0.371	25.770	30.0	-14
*	Pentachlorophenol	0.115	0.111	28.960	30.0	-3*
	Pentachloronitrobenzene	0.069	0.073	31.930	30.0	6
	4-Aminobiphenyl	0.609	0.833	41.000	30.0	37
	Pronamide	0.316	0.342	32.460	30.0	8
	Dinoseb	0.188	0.200	30.040	30.0	0
	Phenanthrene	1.143	1.154	30.270	30.0	1
	Anthracene	1.128	1.194	31.760	30.0	6
	Carbazole	1.103	1.149	31.240	30.0	4
	Methyl parathion	0.258	0.303	35.210	30.0	17
	Di-n-butylphthalate	1.279	1.340	31.420	30.0	5
	Parathion	0.170	0.182	32.080	30.0	7
	4-Nitroquinoline-1-oxide	0.107	0.126	32.040	30.0	7
	Isodrin	0.120	0.127	31.650	30.0	5
*	Fluoranthene	1.101	1.244	33.880	30.0	13*

PCH07 #388

(1) Cannot be Separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09572 Calibration Date: 12/05/11 Time: 08:17

Lab File ID: el0201.d Init. Calib. Date(s): 11/22/11 11/23/11

Init. Calib. Times(s): 21:56 00:43

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	Benzidine	0.660	0.735	100.220	90.0	11
	Pyrene	1.094	1.085	29.750	30.0	-1
	p-Dimethylaminoazobenzene	0.192	0.219	31.370	30.0	5
	Chlorobenzilate	0.318	0.321	30.290	30.0	1
	3,3'-Dimethylbenzidine	0.547	0.666	34.380	30.0	15
	Butylbenzylphthalate	0.507	0.505	29.870	30.0	0
	2-Acetylaminofluorene	0.434	0.469	32.390	30.0	8
	3,3'-Dichlorobenzidine	0.295	0.322	32.710	30.0	9
	4,4'-Methylenebis(2-Chloroanil	0.158	0.178	33.690	30.0	12
	Benzo(a)anthracene	0.845	0.871	30.920	30.0	3
	Chrysene	0.871	0.907	31.250	30.0	4
	bis(2-Ethylhexyl)phthalate	0.674	0.675	30.050	30.0	0
	6-Methylchrysene	0.609	0.640	31.530	30.0	5
	Dibenz(a,h)acridine	0.793	0.834	31.580	30.0	5
*	Di-n-octylphthalate	1.638	1.639	30.010	30.0	0*
	Dibenz(a,j)acridine	0.881	0.849	28.910	30.0	-4
	7,12-Dimethylbenz[a]anthracene	0.533	0.568	29.360	30.0	-2
	Quinoline	0.752	0.769	30.660	30.0	2
	Benzo(b)fluoranthene	1.188	1.215	30.670	30.0	2
	Benzo(k)fluoranthene	1.203	1.245	31.050	30.0	4
*	Benzo(a)pyrene	1.052	1.104	31.470	30.0	5*
	3-Methylcholanthrene	0.523	0.576	30.380	30.0	1
	NDPA as diphenylamine	0.672	0.686	30.620	30.0	2
	Indeno(1,2,3-cd)pyrene	1.089	1.107	30.480	30.0	2
	Dibenz(a,h)anthracene	0.933	0.953	30.650	30.0	2
	Benzo(g,h,i)perylene	0.930	0.940	30.300	30.0	1
	Indene	2.580	2.586	30.070	30.0	0
	2-Fluorophenol	1.544	1.522	29.570	30.0	-1
	Phenol-d5	2.234	2.181	29.280	30.0	-2
	Phenol-d6	2.234	2.181	29.280	30.0	-2
	Nitrobenzene-d5	0.434	0.391	27.010	30.0	-10
	2-Fluorobiphenyl	1.210	1.172	29.050	30.0	-3
	2,4,6-Tribromophenol	0.119	0.135	34.070	30.0	14
	Terphenyl-d14	0.603	0.631	31.390	30.0	5
				Average %Drift:		6

PCH09 8389

FORM VII SV-1

Continuing Calibration
Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09572.i/11nov22b.b/ek1121a.d
/chem/HP09572.i/11nov22b.b/ek1122.d
/chem/HP09572.i/11nov22b.b/ek1123.d
/chem/HP09572.i/11nov22b.b/ek1124.d
/chem/HP09572.i/11nov22b.b/ek1125.d
/chem/HP09572.i/11nov22b.b/ek1126.d **
/chem/HP09572.i/11nov22b.b/ek1127.d
/chem/HP09572.i/11nov22b.b/ek1128.d

** indicates the Mid Level Calibration Standard.

Mid Level Calibration Standard is used for comparison.

Current Continuing Calibration Standard:

/chem/HP09572.i/11dec05.b/el0201.d

Area Summary

File ID:

Internal Standard Name	el0201.d	ICAL Area	Low Limit	High Limit	In Spec
1,4-Dichlorobenzene-d4	100943	109758	54879	219516	Yes
Naphthalene-d8	472463	497792	248896	995584	Yes
Acenaphthene-d10	308354	321472	160736	642944	Yes
Phenanthrene-d10	533007	558897	279448	1117794	Yes
Pyrene-d10	641072	640982	320491	1281964	Yes
Perylene-d12	447604	420016	210008	840032	Yes

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

RT Summary

File ID:

Internal Standard Name	el0201.d	ICAL RT	In Spec
1,4-Dichlorobenzene-d4	4.619	5.215	No
Naphthalene-d8	5.792	6.346	No
Acenaphthene-d10	7.264	7.823	No
Phenanthrene-d10	8.472	9.038	No
Pyrene-d10	9.615	10.198	No
Perylene-d12	11.924	12.801	No

OK Due to column maintenance
MSW 2/09
12/15/11

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

Comments: _____

PCH09: 8398

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): e10201.d Date Analyzed: 12/05/11

Instrument ID: HP09572 Time Analyzed: 08:17

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	100943	4.619	472463	5.792	308354	7.264
	UPPER LIMIT	201886	5.119	944926	6.292	616708	7.764
	LOWER LIMIT	50472	4.119	236232	5.292	154177	6.764
	LLI SAMPLE NO.						
01	SBLKWK325	86165	4.619	379259	5.786	239759	7.264
02	325WKLCS	88868	4.619	386329	5.786	251684	7.264
03	SBLKWB336	80335	4.619	350083	5.786	224389	7.264
04	336WBLCS	88299	4.625	396486	5.792	255720	7.264
05	6477836DL	83171	4.619	355199	5.786	228288	7.264
06	6477842DL	77155	4.619	348395	5.786	228161	7.264
07	6477561	87712	4.625	389248	5.792	255875	7.270
08	6477562MS	89309	4.625	403791	5.792	254916	7.270
09	6477563MSD	91147	4.625	404741	5.792	262172	7.269
10	6477564	85464	4.625	370704	5.792	238883	7.269
11	6477565	90147	4.625	385654	5.792	242957	7.264
12	6477566	89026	4.625	399350	5.792	255778	7.263
13	6477567	82675	4.625	365261	5.792	236380	7.263
14	6477568	87092	4.625	385026	5.792	256238	7.264
15	6477569	84546	4.625	377821	5.792	246648	7.264
16	6477570	85261	4.625	385220	5.792	243134	7.264
17	6477571	83395	4.626	379968	5.792	238495	7.264

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.

PCH89 3391

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): e10201.d Date Analyzed: 12/05/11

Instrument ID: HP09572 Time Analyzed: 08:17

	IS4(PHN) AREA	#	RT	#	IS5(PYR) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD		533007		8.472		641072		9.615		447604		11.924	
	UPPER LIMIT		1066014		8.972		1282144		10.115		895208		12.424	
	LOWER LIMIT		266504		7.972		320536		9.115		223802		11.424	
	LLI SAMPLE NO.													
01	SBLKWK325		430804		8.472		511428		9.615		372035		11.918	
02	325WKLCS		438908		8.472		531287		9.615		366742		11.918	
03	SBLKWB336		407822		8.466		471495		9.609		355786		11.912	
04	336WBLCS		452538		8.472		510506		9.615		344474		11.918	
05	6477836DL		411632		8.466		491228		9.609		376462		11.912	
06	6477842DL		403992		8.466		481949		9.609		375461		11.912	
07	6477561		432708		8.472		501636		9.621		336610		11.930	
08	6477562MS		435598		8.472		486827		9.621		322448		11.930	
09	6477563MSD		454381		8.472		504063		9.620		332340		11.930	
10	6477564		404511		8.472		459922		9.614		308524		11.924	
11	6477565		425026		8.472		476044		9.615		318335		11.924	
12	6477566		445403		8.472		496583		9.614		333956		11.924	
13	6477567		408815		8.472		454236		9.614		303862		11.924	
14	6477568		433716		8.472		464582		9.615		306884		11.930	
15	6477569		418675		8.472		460956		9.615		303645		11.924	
16	6477570		429616		8.472		467846		9.615		323492		11.918	
17	6477571		413432		8.472		472300		9.615		310995		11.924	

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.

PGW89 8392

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): el0201.d Date Analyzed: 12/05/11

Instrument ID: HP09572 Time Analyzed: 08:17

		IS1(DCB)			IS2(NPT)			IS3(ANT)		
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	100943		4.619		472463		5.792		308354		7.264	
	UPPER LIMIT	201886		5.119		944926		6.292		616708		7.764	
	LOWER LIMIT	50472		4.119		236232		5.292		154177		6.764	
	LLI SAMPLE NO.												
18	6477572	81529		4.619		371499		5.792		236052		7.263	
19	6477573	87082		4.619		383032		5.792		249609		7.263	
20	6477574	86394		4.619		383423		5.792		244535		7.264	
21	6477575	82153		4.619		367011		5.792		235165		7.263	
22	6477576	89708		4.619		395080		5.792		249994		7.264	

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.

PCH89 8393

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): el0201.d Date Analyzed: 12/05/11

Instrument ID: HP09572 Time Analyzed: 08:17

		IS4(PHN)			IS5(PYR)			IS6(PRY)		
		AREA	#	RT	AREA	#	RT	AREA	#	RT
	12 HOUR STD	533007		8.472	641072		9.615	447604		11.924
	UPPER LIMIT	1066014		8.972	1282144		10.115	895208		12.424
	LOWER LIMIT	266504		7.972	320536		9.115	223802		11.424
	LLI SAMPLE NO.									
18	6477572	414228		8.472	468900		9.614	313063		11.918
19	6477573	425776		8.472	478581		9.614	314562		11.918
20	6477574	423781		8.472	472896		9.615	320314		11.918
21	6477575	408603		8.472	471893		9.614	309962		11.918
22	6477576	428774		8.472	476105		9.615	327422		11.918

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.

PCH89 8394

Sample Data

Lancaster Laboratories

LOQ/MDL Summary
GC/MS Semivolatiles

SDG: PCH09

Fraction: Semivolatiles by GC/MS

07805: PAHs in Water by GC/MS Analyte Name	Default MDL	Default LOQ	Units
Naphthalene	0.1	0.5	ug/l
Acenaphthylene	0.1	0.5	ug/l
Acenaphthene	0.1	0.5	ug/l
Fluorene	0.1	0.5	ug/l
Phenanthrene	0.1	0.5	ug/l
Anthracene	0.1	0.5	ug/l
Fluoranthene	0.1	0.5	ug/l
Pyrene	0.1	0.5	ug/l
Benzo(a)anthracene	0.1	0.5	ug/l
Chrysene	0.1	0.5	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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT01

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477561

Sample wt/vol: 1034 (g/mL)ML Lab File ID: el0211.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			0.5	U
208-96-8	Acenaphthylene			0.5	U
83-32-9	Acenaphthene			0.5	U
86-73-7	Fluorene			0.5	U
85-01-8	Phenanthrene			0.5	U
120-12-7	Anthracene			0.5	U
206-44-0	Fluoranthene			0.5	U
129-00-0	Pyrene			0.5	U
56-55-3	Benzo(a)anthracene			0.5	U
218-01-9	Chrysene			0.5	U
205-99-2	Benzo(b)fluoranthene			0.5	U
207-08-9	Benzo(k)fluoranthene			0.5	U
50-32-8	Benzo(a)pyrene			0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene			0.5	U
53-70-3	Dibenz(a,h)anthracene			0.5	U
191-24-2	Benzo(g,h,i)perylene			0.5	U

PCH69 6397

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477561

Data file: /chem/HP09572.i/11dec05.b/el0211.d
Data file Sample Info. Line: XXXXX;6477561;
Date, time and analyst ID of latest file update: 05-Dec-2011 13:47 msw02109

Injection date and time: **05-DEC-2011 12:52**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH2893**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1034 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	4.625(-0.006)	559	152	87712 (-13)	20.00	
52) Naphthalene-d8	5.792(0.000)	754	136	389248 (-18)	20.00	
98) Acenaphthene-d10	7.270(-0.006)	1001	164	255875 (-17)	20.00	
135) Phenanthrene-d10	8.472(0.000)	1202	188	432708 (-19)	20.00	
167) Pyrene-d10	9.621(-0.006)	1394	212	501636 (-22)	20.00	
175) Perylene-d12	11.930(-0.006)	1780	264	336610 (-25)	20.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164(-0.001)	82	719124	85.097	85%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.737(0.000)	172	1411390	91.152	91%		63 - 114
156) Terphenyl-d14	(5)	9.794(0.000)	244	1347775	89.070	89%		34 - 118

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)			Not Detected					0.1
70) 2-Methylnaphthalene	(2)			Not Detected					0.1
95) Acenaphthylene	(3)			Not Detected					0.1
99) Acenaphthene	(3)			Not Detected					0.1
111) Fluorene	(3)			Not Detected					0.1
137) Phenanthrene	(4)			Not Detected					0.1
138) Anthracene	(4)			Not Detected					0.1
147) Fluoranthene	(4)			Not Detected					0.1
154) Pyrene	(5)			Not Detected					0.1
166) Benzo(a)anthracene	(5)			Not Detected					0.1
168) Chrysene	(5)			Not Detected					0.1
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

PCH89 8398

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:11. Target 3.5 esignature user ID: msw02109

XXXXX Lancaster Labs Analysis Summary for GC/MS Semivolatiles 6477561

Data file: /chem/HP09572.i/11dec05.b/el0211.d
Data file Sample Info. Line: XXXXX;6477561;
Date, time and analyst ID of latest file update: 05-Dec-2011 13:47 msw02109

Injection date and time: **05-DEC-2011 12:52**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH2893**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1034 ml Volume Injected (Vi): 1 ul

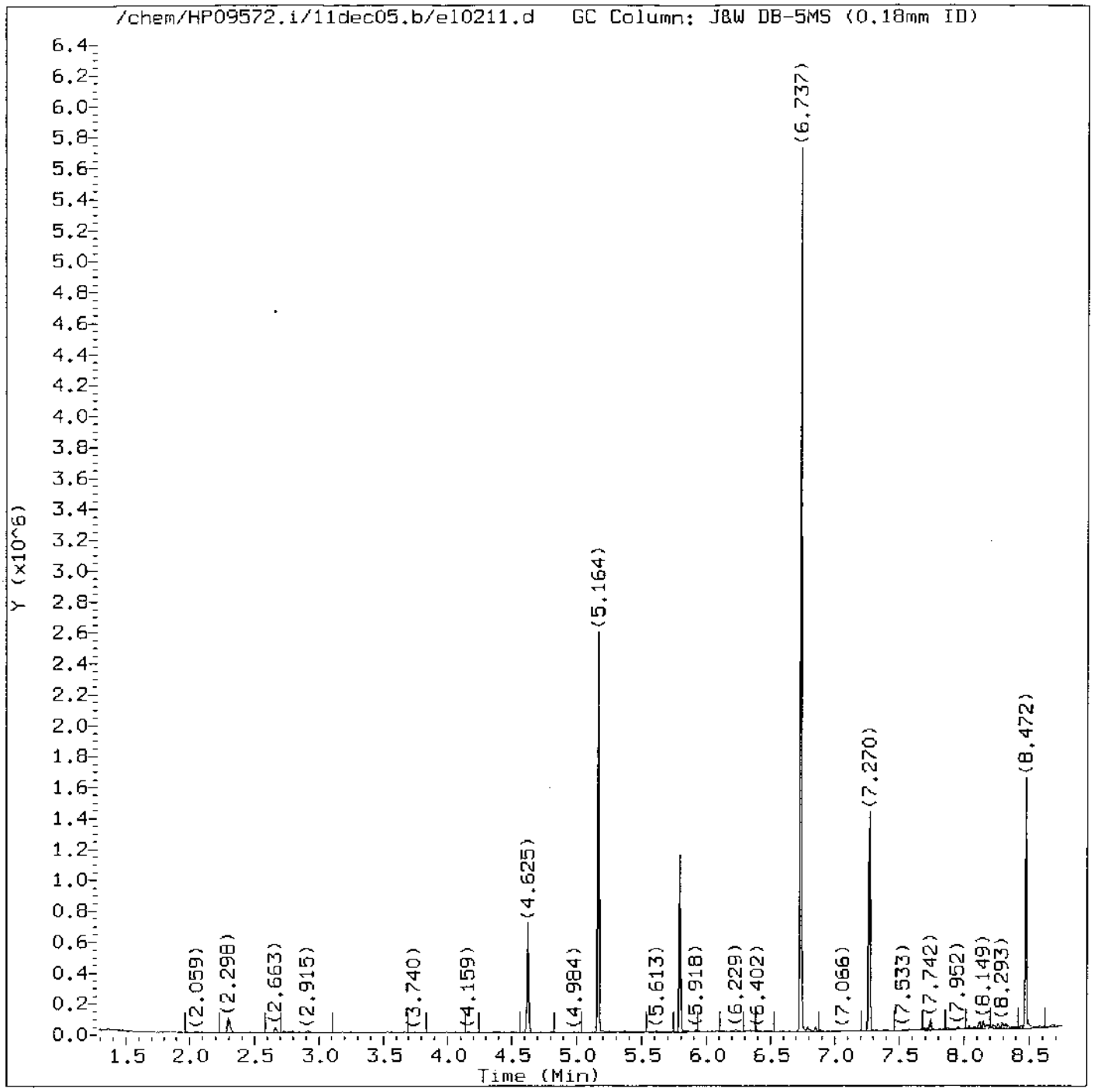
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WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 17

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:11. Target 3.5 esignature user ID: msw02109

PCH89 8399

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

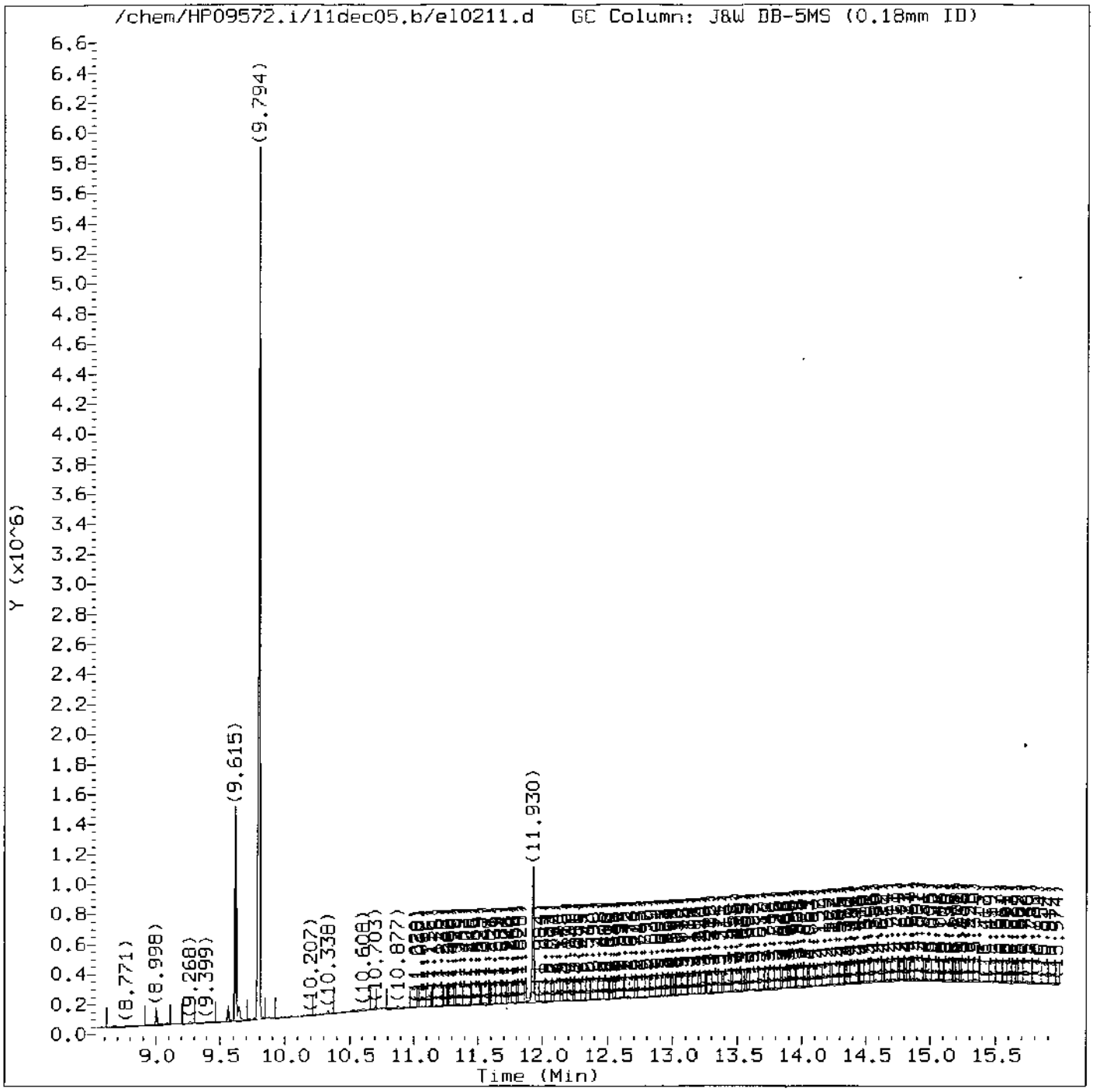
Data File: /chem/HP09572.i/11dec05.b/el0211.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 12:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 13:47 msw02109

Sample Name: XXXXX Lab Sample ID: 6477561

PCH89 8488

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:11.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0211.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 12:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 13:47 msw02109

Sample Name: XXXXX Lab Sample ID: 6477561

PCH89 8481

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:11.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0211.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 12:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 13:47 msw02109

Sample Name: XXXXX Lab Sample ID: 6477561

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	87712	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	719124	85.097
52)*Naphthalene-d8	(2)	5.792	136	389248	20.000
78)$2-Fluorobiphenyl	(3)	6.737	172	1411390	91.152
98)*Acenaphthene-d10	(3)	7.270	164	255875	20.000
135)*Phenanthrene-d10	(4)	8.472	188	432708	20.000
167)*Pyrene-d10	(5)	9.621	212	501636	20.000
156)$Terphenyl-d14	(5)	9.794	244	1347775	89.070
175)*Perylene-d12	(6)	11.930	264	336610	20.000

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

PCN89 8482

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:11.
Target 3.5 esignature user ID: msw02109

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT03

Lab Name: Lancaster Laboratories Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 6477564

Sample wt/vol: 1014 (g/mL)ML Lab File ID: el0214.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ	UG/L	Q
91-20-3	Naphthalene		0.5	U
208-96-8	Acenaphthylene		0.7	
83-32-9	Acenaphthene		0.9	
86-73-7	Fluorene		0.5	U
85-01-8	Phenanthrene		0.5	U
120-12-7	Anthracene		0.2	J
206-44-0	Fluoranthene		3	
129-00-0	Pyrene		3	
56-55-3	Benzo(a)anthracene		0.1	J
218-01-9	Chrysene		0.2	J
205-99-2	Benzo(b)fluoranthene		0.2	J
207-08-9	Benzo(k)fluoranthene		0.1	J
50-32-8	Benzo(a)pyrene		0.2	J
193-39-5	Indeno(1,2,3-cd)pyrene		0.5	J
53-70-3	Dibenz(a,h)anthracene		0.2	J
191-24-2	Benzo(g,h,i)perylene		1	

PCH89 8483

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477564

Data file: /chem/HP09572.i/11dec05.b/el0214.d
Data file Sample Info. Line: XXXXX;6477564;
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Injection date and time: **05-DEC-2011 14:04**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1014 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	4.625	(-0.006)	559	152	85464	(-15)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	370704	(-22)	20.00	
98) Acenaphthene-d10	7.269	(-0.006)	1001	164	238883	(-23)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	404511	(-24)	20.00	
167) Pyrene-d10	9.614	(0.000)	1393	212	459922	(-28)	20.00	
175) Perylene-d12	11.924	(0.000)	1779	264	308524	(-31)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	660593	82.082	82%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.737	(0.000)	172	1324546	91.628	92%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1275729	91.955	92%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)				Not Detected					0.1
95) Acenaphthylene	(3)	7.150	(0.000)	152	14127	0.709	0.70			0.1
99) Acenaphthene	(3)	7.293	(0.000)	153	12358	0.917	0.90			0.1
111) Fluorene	(3)				Not Detected					0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)	8.532	(-0.000)	178	5664	0.248	0.24			0.1
147) Fluoranthene	(4)	9.453	(-0.000)	202	57548	2.584	2.55			0.1
154) Pyrene	(5)	9.626	(0.000)	202	71161	2.828	2.79			0.1
166) Benzo(a)anthracene	(5)	10.601	(0.000)	228	2599	0.134	0.13			0.1
168) Chrysene	(5)	10.631	(0.000)	228	3660	0.183	0.18			0.1
172) Benzo(b)fluoranthene	(6)	11.547	(0.001)	252	3180M	0.174	0.17			0.1
173) Benzo(k)fluoranthene	(6)	11.577	(0.001)	252	2568M	0.138	0.14			0.1
174) Benzo(a)pyrene	(6)	11.864	(0.000)	252	2496	0.154	0.15			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	13.042	(0.001)	276	8302	0.494	0.49			0.1
178) Dibenz(a,h)anthracene	(6)	13.084	(0.000)	278	3062	0.213	0.21			0.1
179) Benzo(g,h,i)perylene	(6)	13.329	(0.000)	276	17402	1.213	1.20			0.1

M = Compound was manually integrated.

PCN89 9484

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08 * Target 3.5 esignature user ID: msw02109

XXXXX Lancaster Labs
Analysis Summary for GC/MS Semivolatiles 6477564

Data file: /chem/HP09572.i/11dec05.b/el0214.d
Data file Sample Info. Line: XXXXX;6477564;
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Injection date and time: **05-DEC-2011 14:04**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1014 ml Volume Injected (Vi): 1 ul

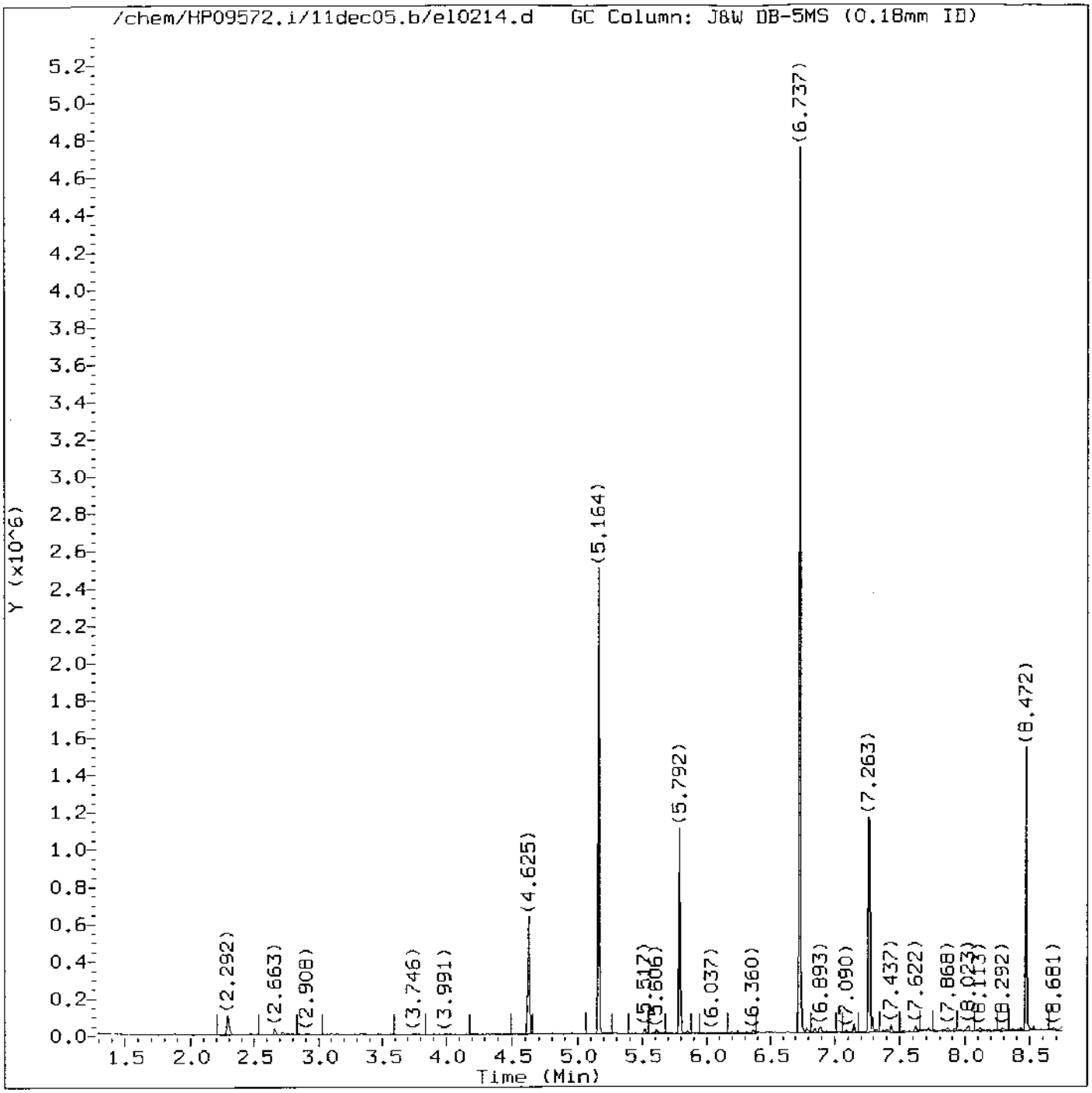
THIS SPACE
WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 16

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08. Target 3.5 esignature user ID: msw02109

PCH89 #485

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

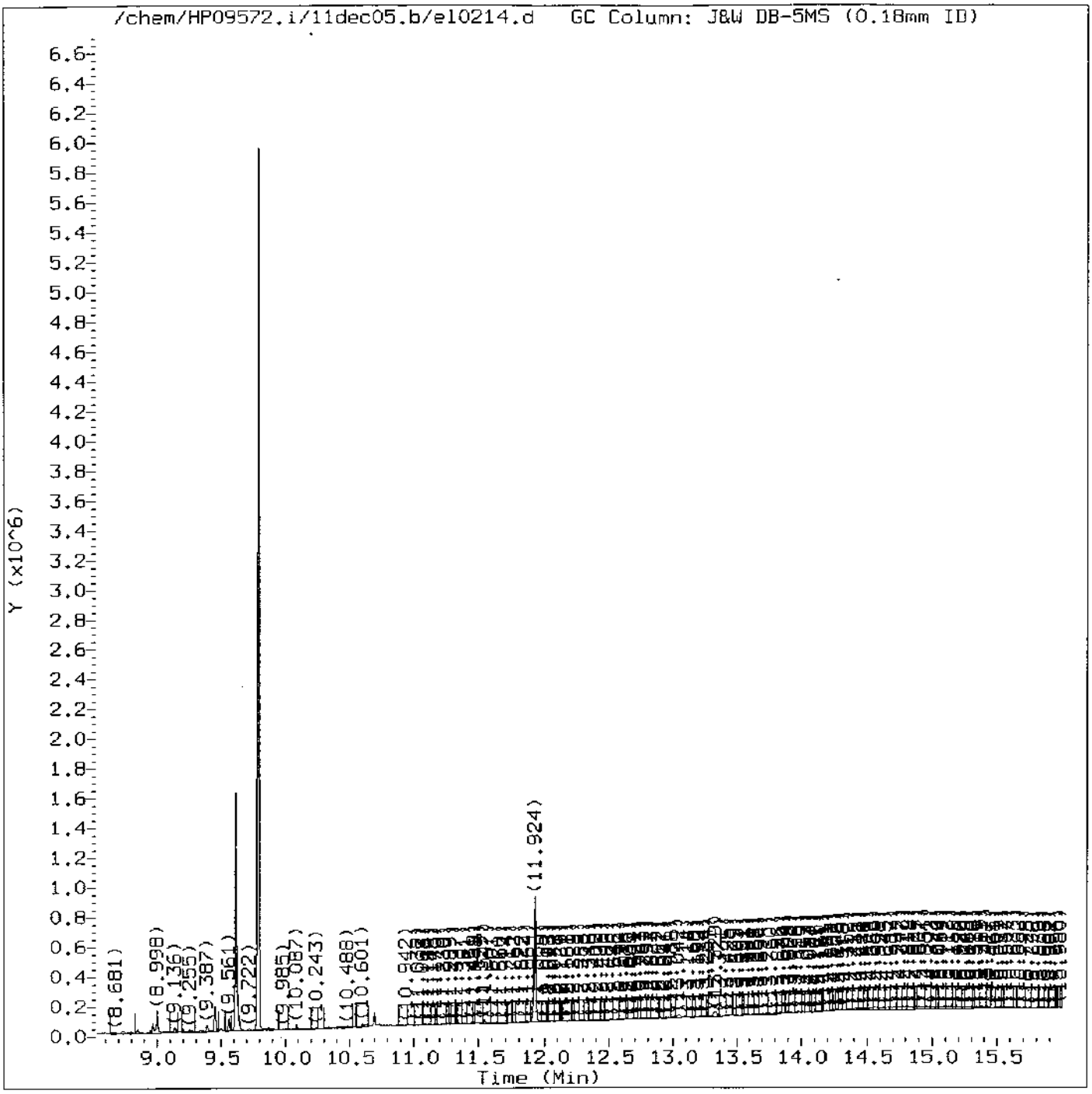
Data File: /chem/HP09572.i/11dec05.b/el0214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sample Name: XXXXX Lab Sample ID: 6477564

PCH09 6486

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sample Name: XXXXX Lab Sample ID: 6477564

PCN89 8487

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sample Name: XXXXX Lab Sample ID: 6477564

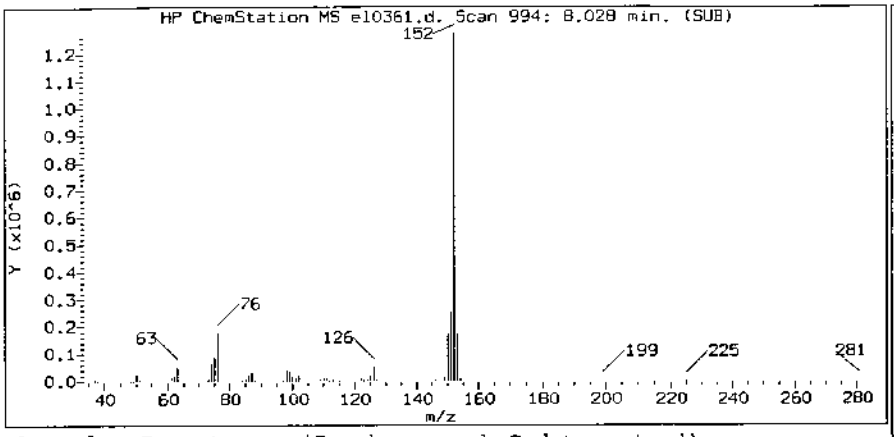
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	85464	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	660593	82.082
52)*Naphthalene-d8	(2)	5.792	136	370704	20.000
78)$2-Fluorobiphenyl	(3)	6.737	172	1324546	91.628
95) Acenaphthylene	(3)	7.150	152	14127	0.709
98)*Acenaphthene-d10	(3)	7.269	164	238883	20.000
99) Acenaphthene	(3)	7.293	153	12358	0.917
135)*Phenanthrene-d10	(4)	8.472	188	404511	20.000
138) Anthracene	(4)	8.532	178	5664	0.248
147) Fluoranthene	(4)	9.453	202	57548	2.584
167)*Pyrene-d10	(5)	9.614	212	459922	20.000
154) Pyrene	(5)	9.626	202	71161	2.828
156)$Terphenyl-d14	(5)	9.794	244	1275729	91.955
166) Benzo(a)anthracene	(5)	10.601	228	2599	0.134
168) Chrysene	(5)	10.631	228	3660	0.183
172) Benzo(b)fluoranthene	(6)	11.547	252	3180M	0.174
173) Benzo(k)fluoranthene	(6)	11.577	252	2568M	0.138
174) Benzo(a)pyrene	(6)	11.864	252	2496	0.154
175)*Perylene-d12	(6)	11.924	264	308524	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	13.042	276	8302	0.494
178) Dibenz(a,h)anthracene	(6)	13.084	278	3062	0.213
179) Benzo(g,h,i)perylene	(6)	13.329	276	17402	1.213

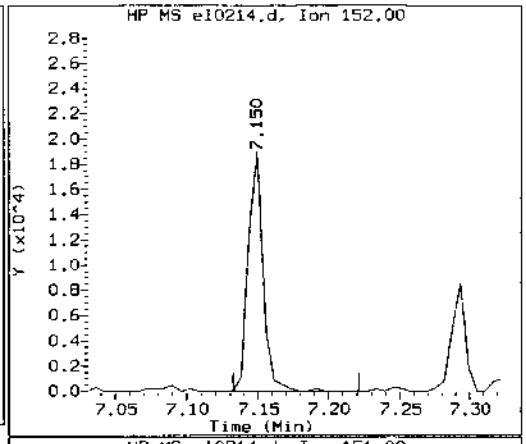
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PCH09 8488

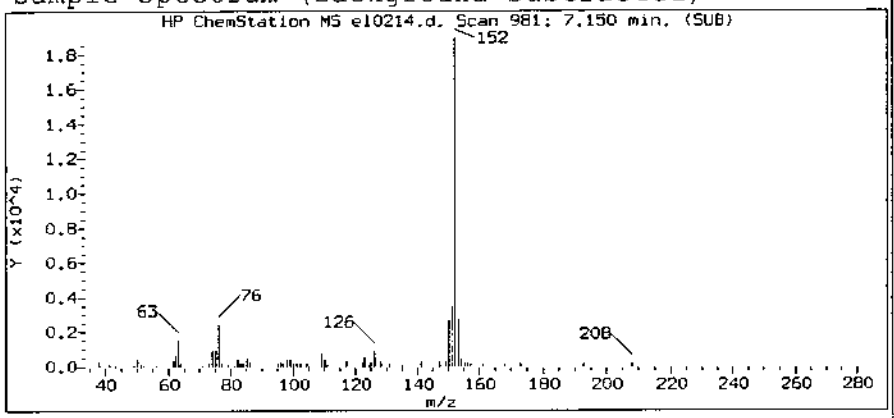
Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

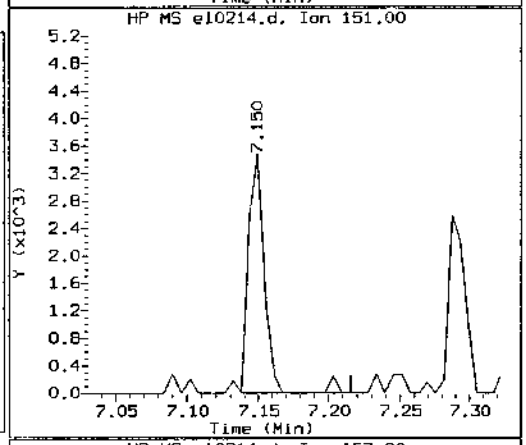
Reference Standard Spectrum for Acenaphthylene



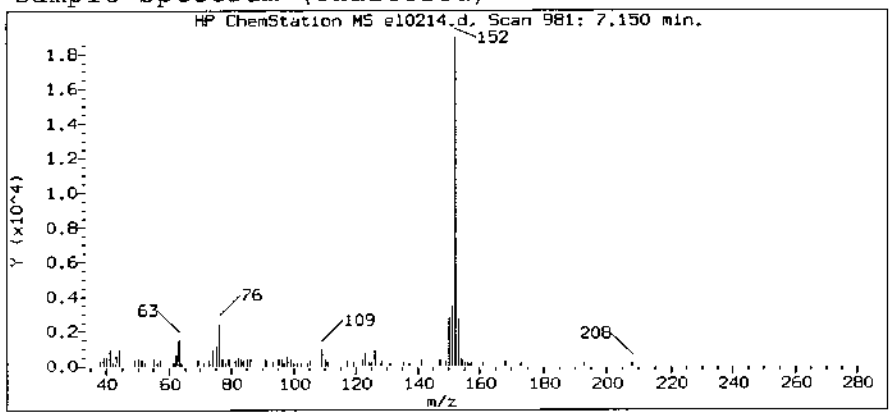


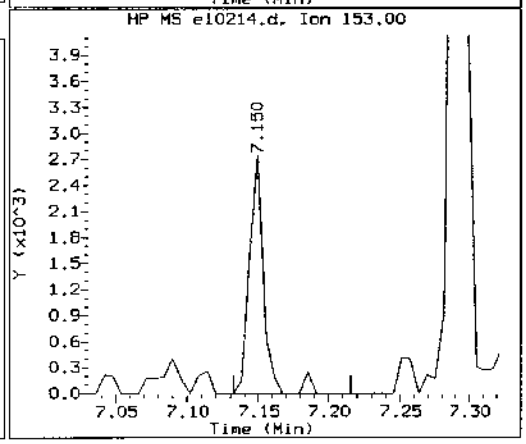
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10214.d
Injection date and time: 05-DEC-2011 14:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sublist used: WPAH0826

Sample Name: XXXXX

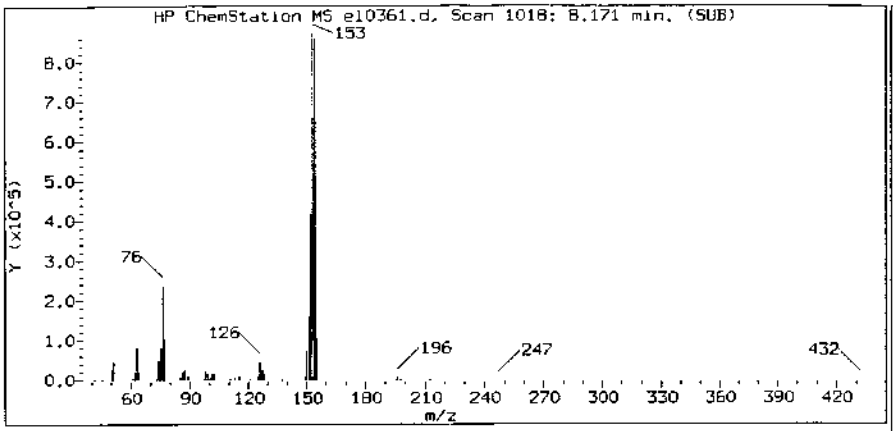
Lab Sample ID: 6477564

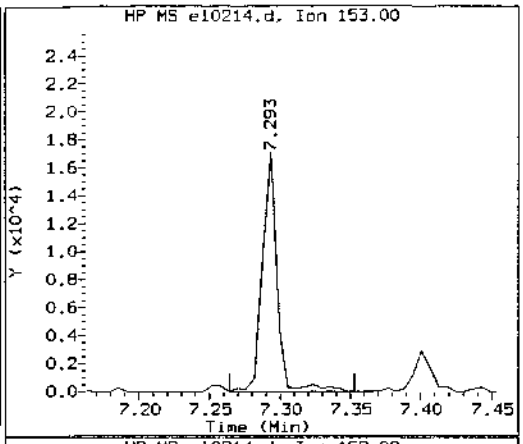
Compound Number	: 95
Compound Name	: Acenaphthylene
Scan Number	: 981
Retention Time (minutes)	: 7.150
Relative Retention Time	: 0.00081
Quant Ion	: 152.00
Area (flag)	: 14127
On-column Amount (ng/ul)	: 0.7093

PCH89 8489

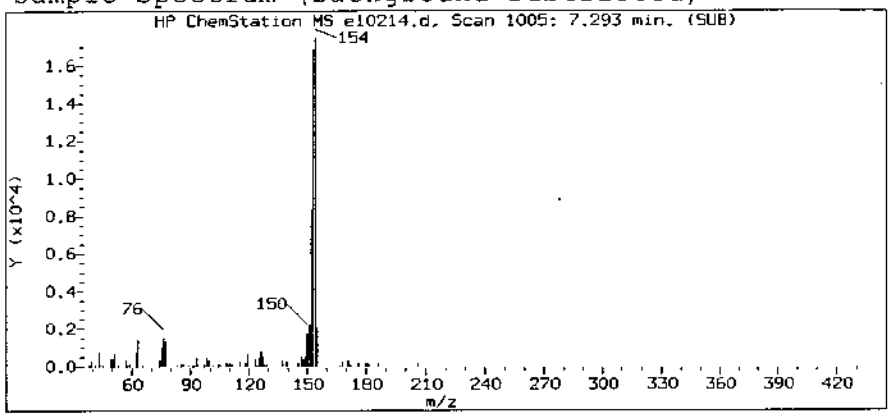
Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

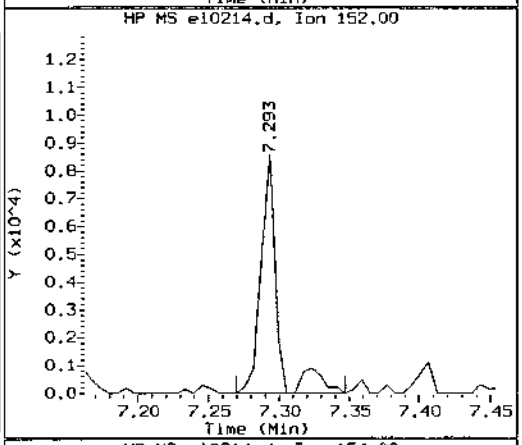
Reference Standard Spectrum for Acenaphthene



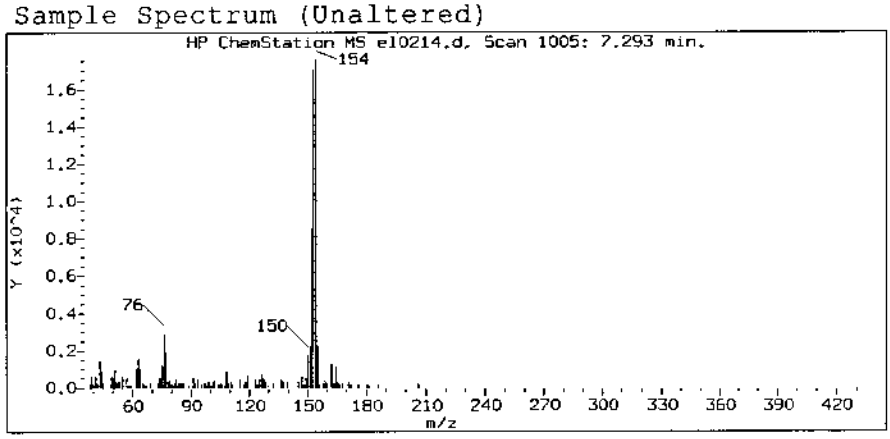


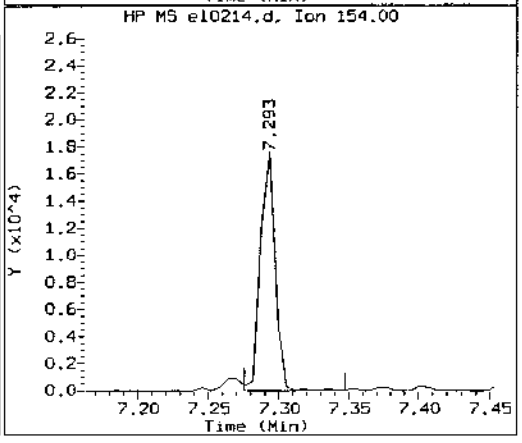
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10214.d
Injection date and time: 05-DEC-2011 14:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sublist used: WPAH0826

Sample Name: XXXXX

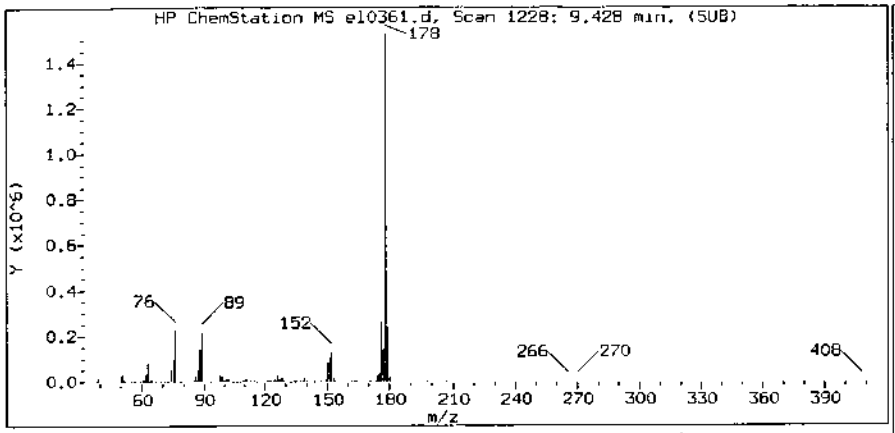
Lab Sample ID: 6477564

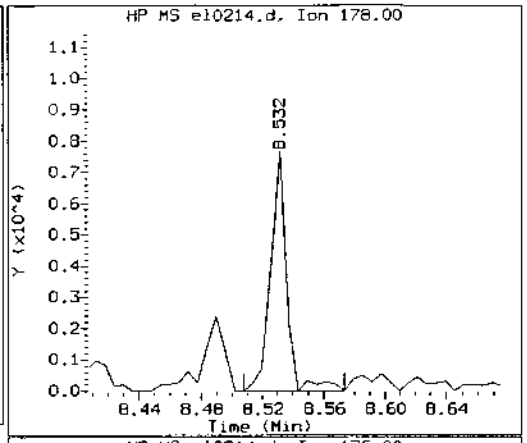
Compound Number	: 99
Compound Name	: Acenaphthene
Scan Number	: 1005
Retention Time (minutes)	: 7.293
Relative Retention Time	: 0.00083
Quant Ion	: 153.00
Area (flag)	: 12358
On-column Amount (ng/ul)	: 0.9171

PCH09 8418

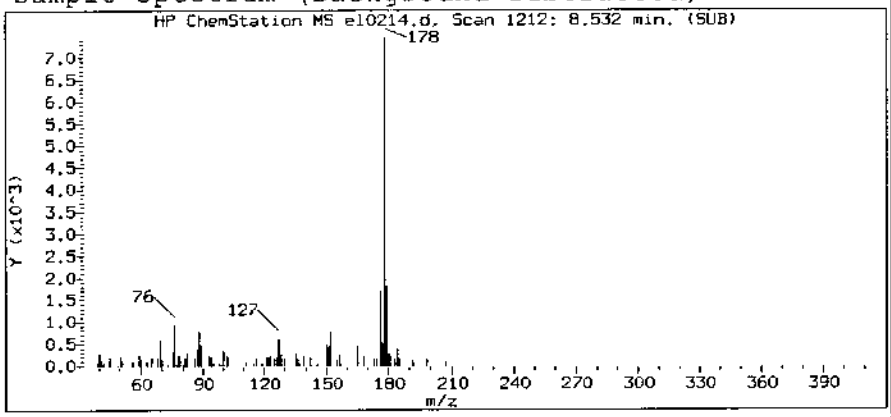
Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

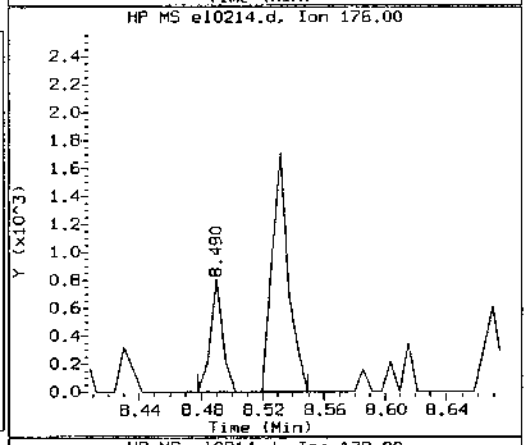
Reference Standard Spectrum for Anthracene



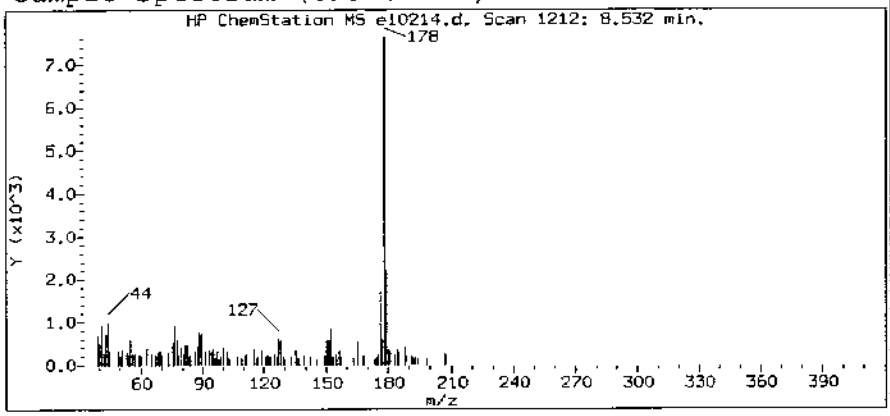


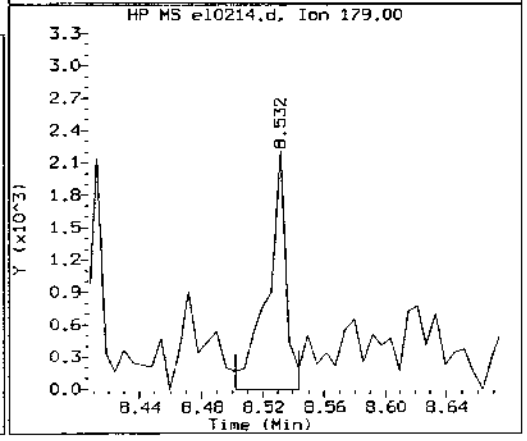
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

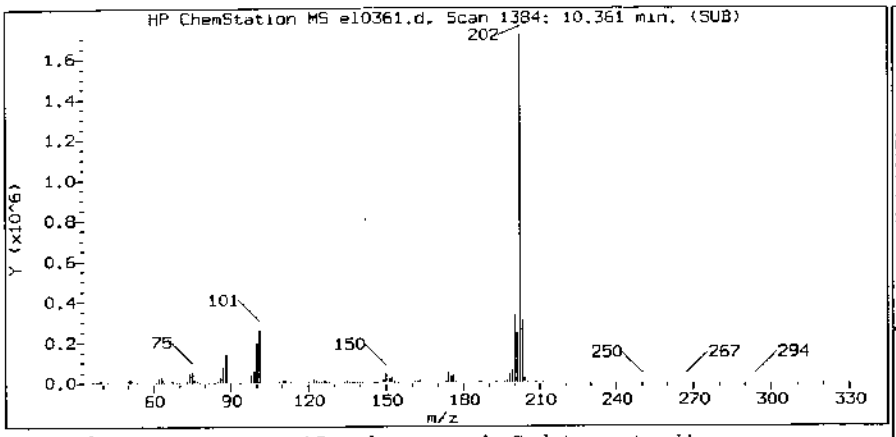
Sample Name: XXXXX Lab Sample ID: 6477564

Compound Number : 138
Compound Name : Anthracene
Scan Number : 1212
Retention Time (minutes) : 8.532
Relative Retention Time :-0.00000
Quant Ion : 178.00
Area (flag) : 5664
On-column Amount (ng/ul) : 0.2483

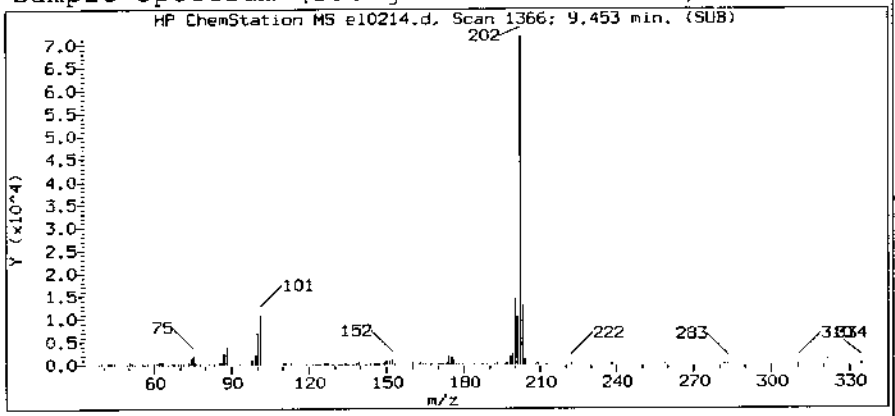
PCN09-09411

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

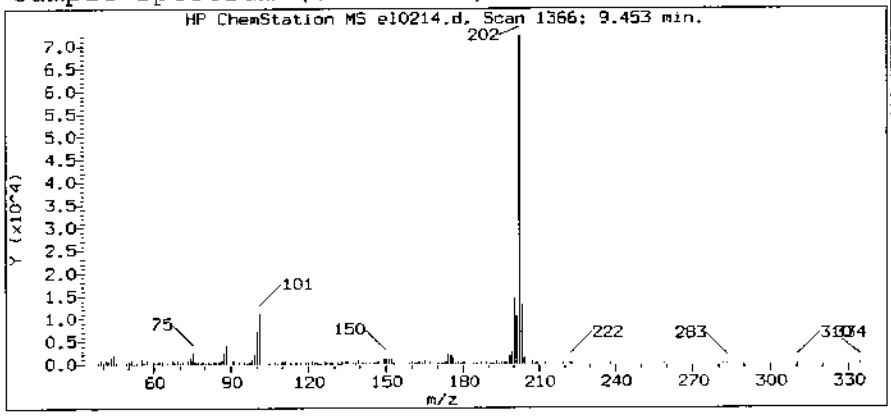
Reference Standard Spectrum for Fluoranthene

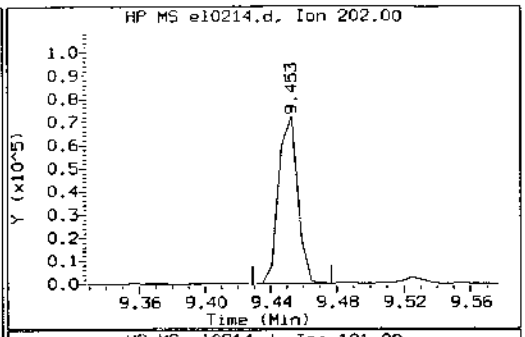


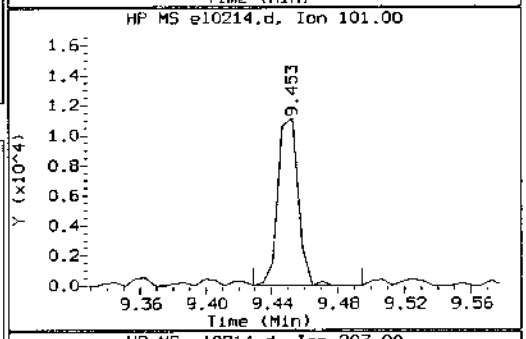
Sample Spectrum (Background Subtracted)

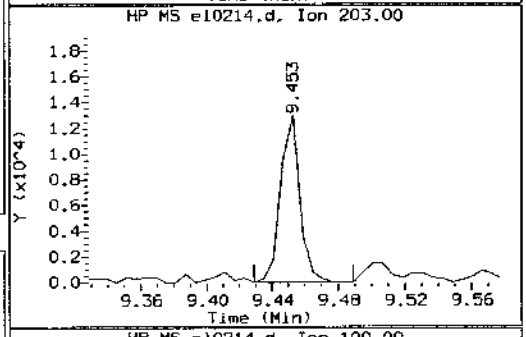


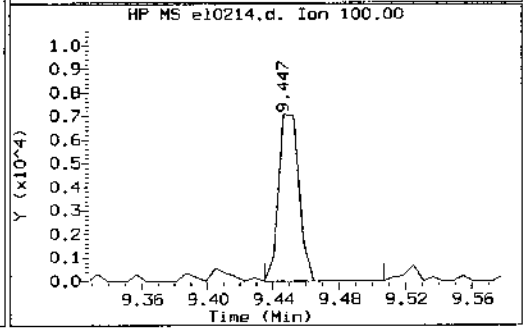
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11dec05.b/e10214.d
Injection date and time: 05-DEC-2011 14:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sublist used: WPAH0826

Sample Name: XXXXX

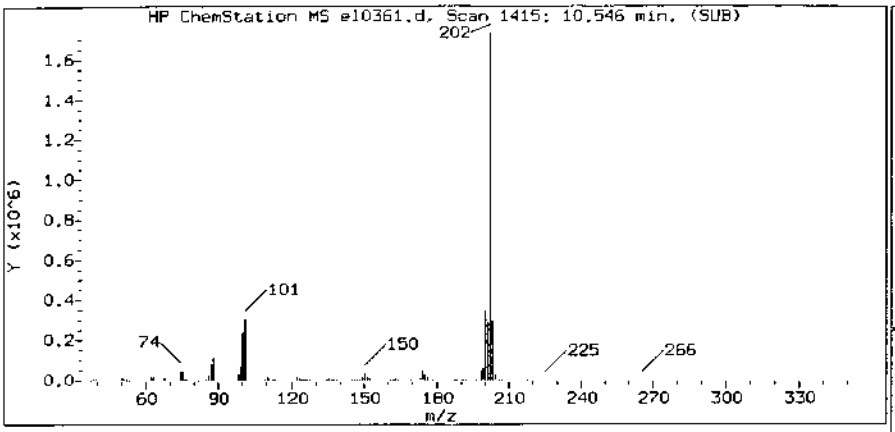
Lab Sample ID: 6477564

Compound Number	: 147
Compound Name	: Fluoranthene
Scan Number	: 1366
Retention Time (minutes)	: 9.453
Relative Retention Time	:-0.00000
Quant Ion	: 202.00
Area (flag)	: 57548
On-column Amount (ng/ul)	: 2.5837

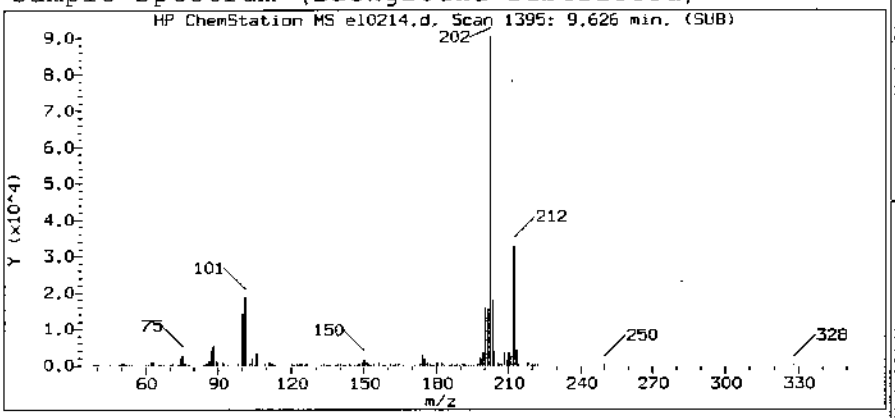
PCN09 0412

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

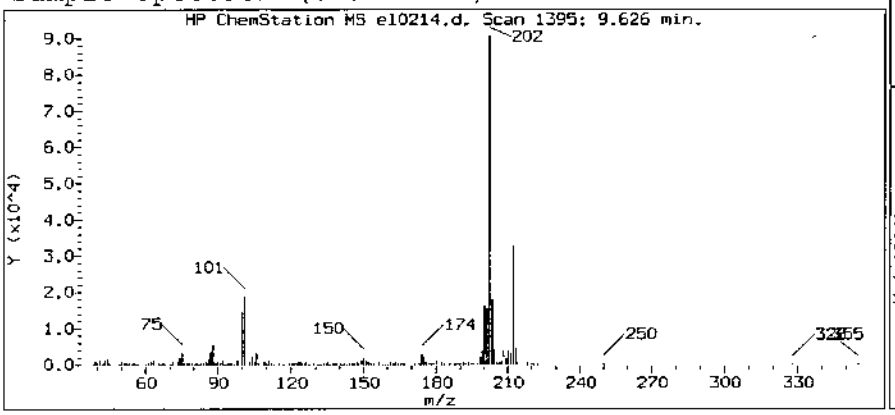
Reference Standard Spectrum for Pyrene

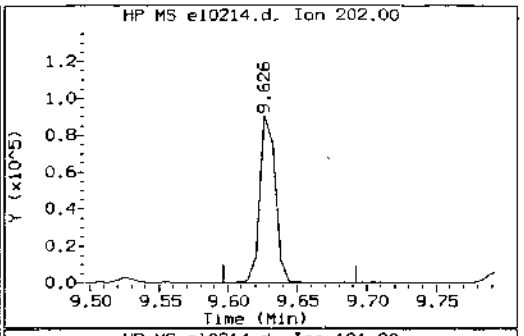


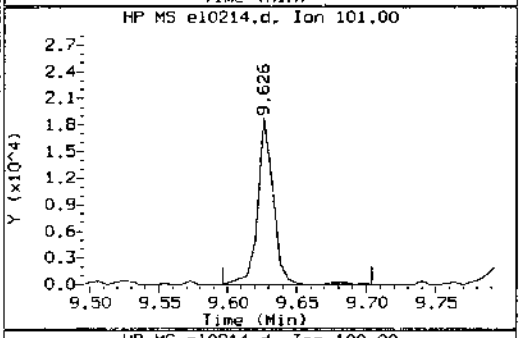
Sample Spectrum (Background Subtracted)

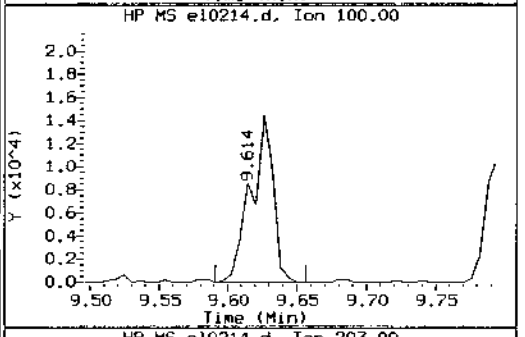


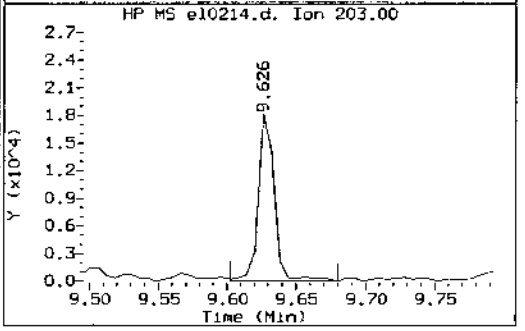
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11dec05.b/e10214.d
Injection date and time: 05-DEC-2011 14:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55

Sublist used: WPAH0826

Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sample Name: XXXXX

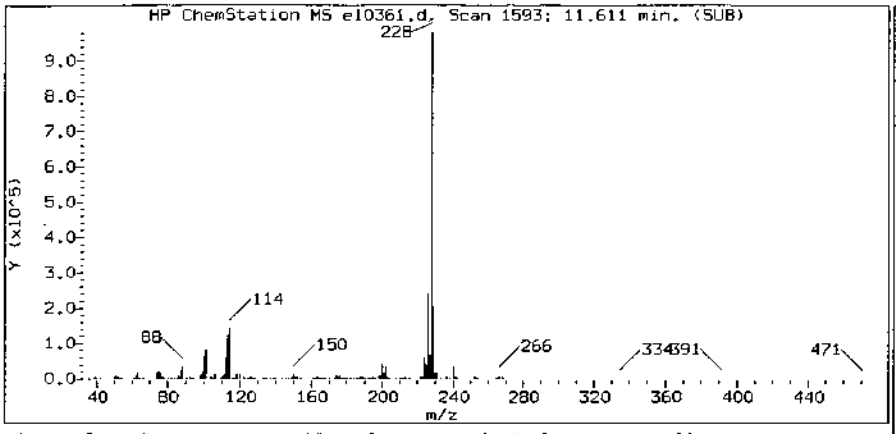
Lab Sample ID: 6477564

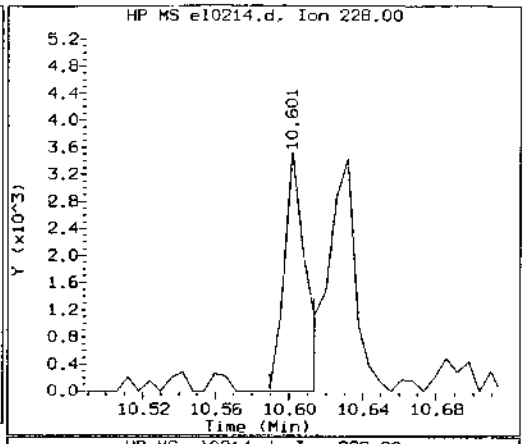
Compound Number	: 154
Compound Name	: Pyrene
Scan Number	: 1395
Retention Time (minutes)	: 9.626
Relative Retention Time	: 0.00062
Quant Ion	: 202.00
Area (flag)	: 71161
On-column Amount (ng/ul)	: 2.8277

PQN09 0413

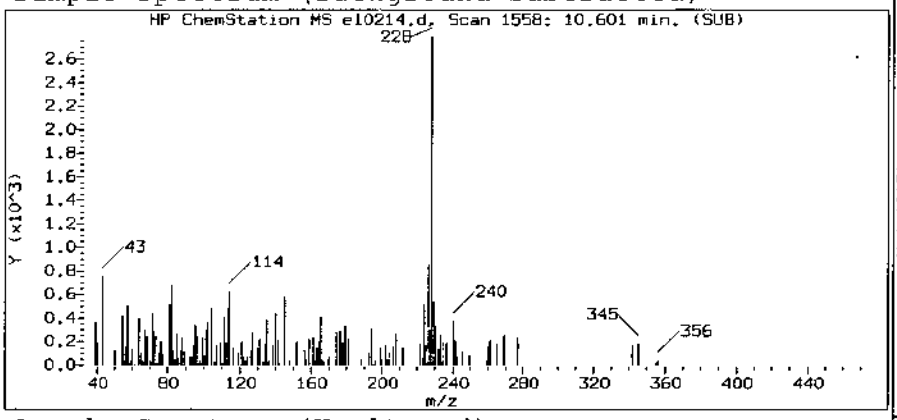
Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

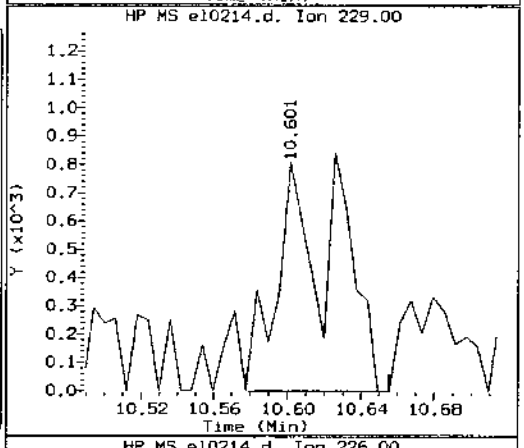
Reference Standard Spectrum for Benzo(a)anthracene



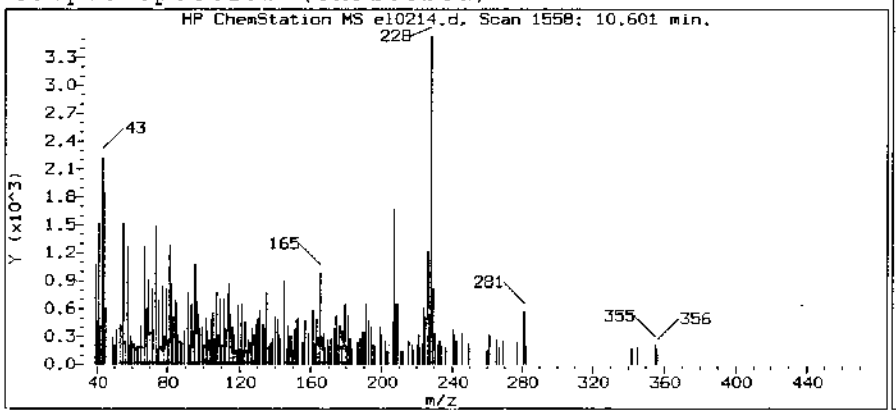


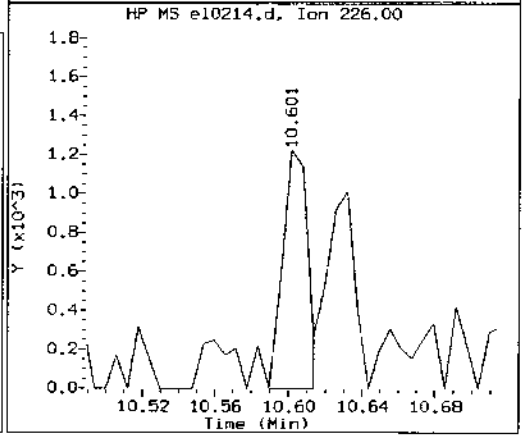
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

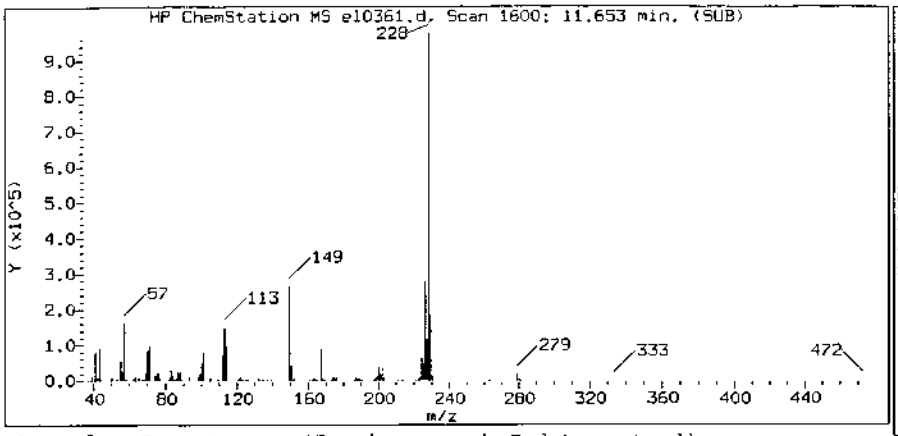
Sample Name: XXXXX Lab Sample ID: 6477564

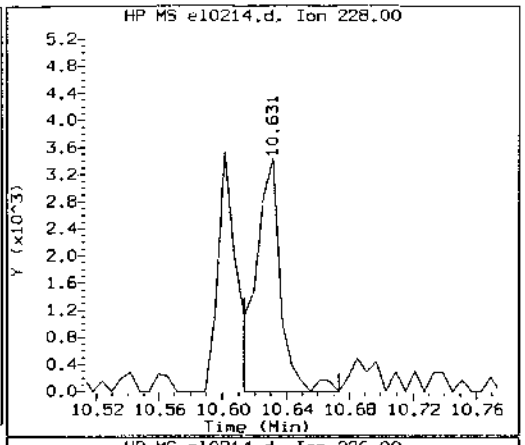
Compound Number	: 166
Compound Name	: Benzo(a)anthracene
Scan Number	: 1558
Retention Time (minutes)	: 10.601
Relative Retention Time	: 0.00062
Quant Ion	: 228.00
Area (flag)	: 2599
On-column Amount (ng/ul)	: 0.1338

PCH89 8414

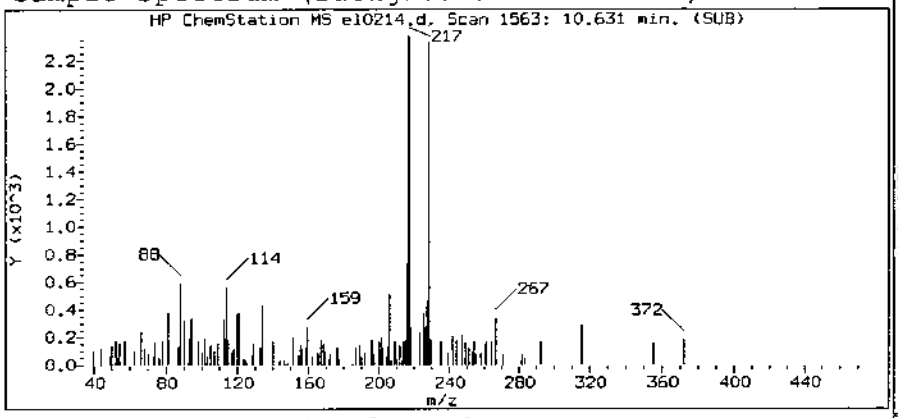
Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

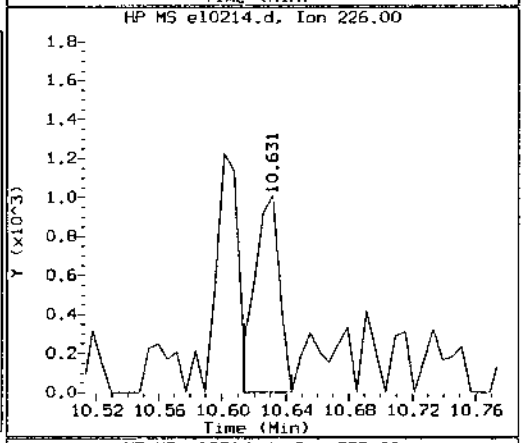
Reference Standard Spectrum for Chrysene



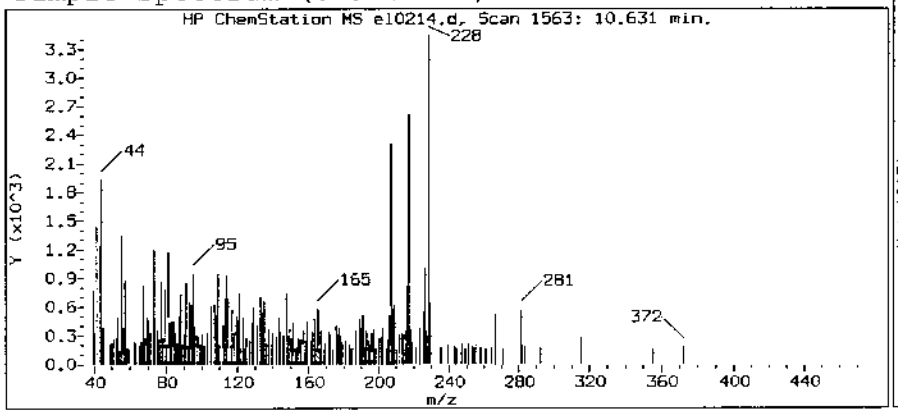


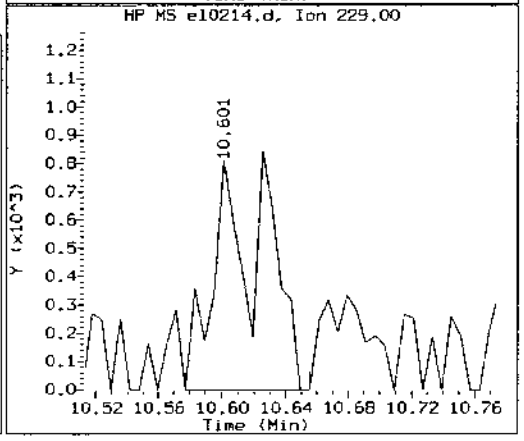
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10214.d
Injection date and time: 05-DEC-2011 14:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sublist used: WPAH0826

Sample Name: XXXXX

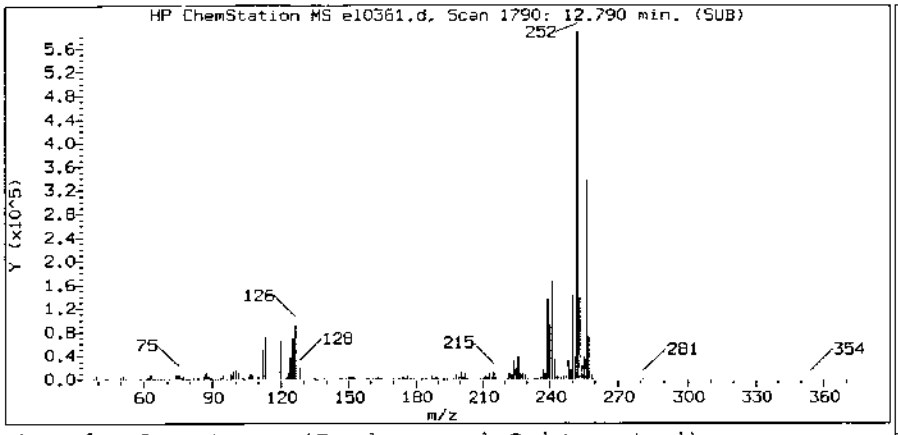
Lab Sample ID: 6477564

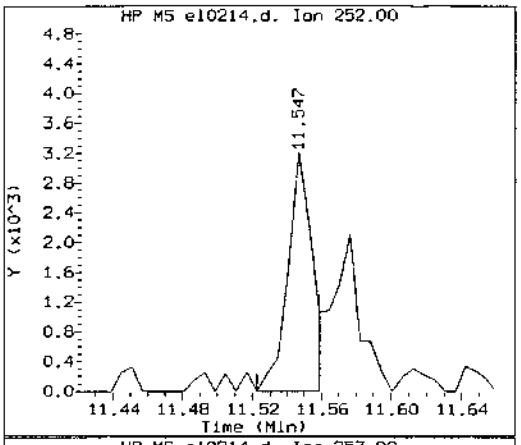
Compound Number	: 168
Compound Name	: Chrysene
Scan Number	: 1563
Retention Time (minutes)	: 10.631
Relative Retention Time	: 0.00062
Quant Ion	: 228.00
Area (flag)	: 3660
On-column Amount (ng/ul)	: 0.1827

PCH89 6415

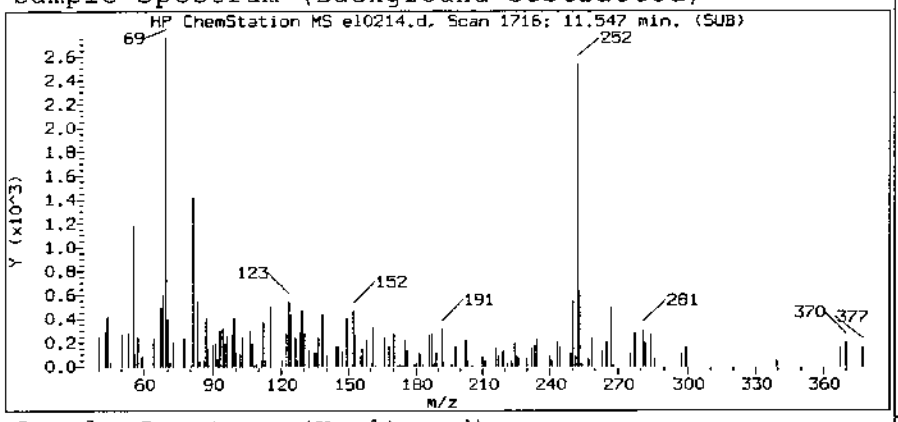
Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

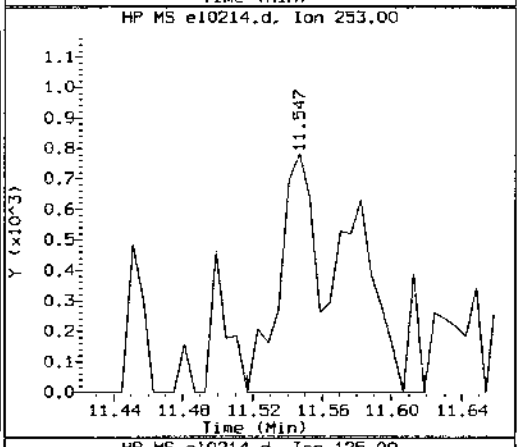
Reference Standard Spectrum for Benzo(b)fluoranthene



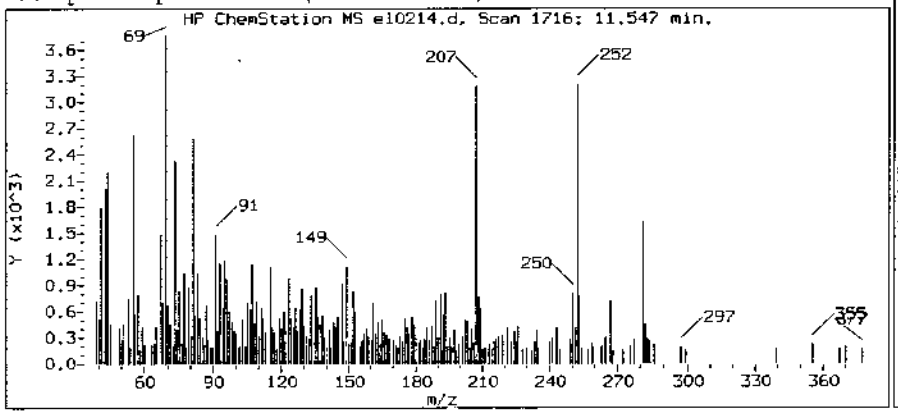


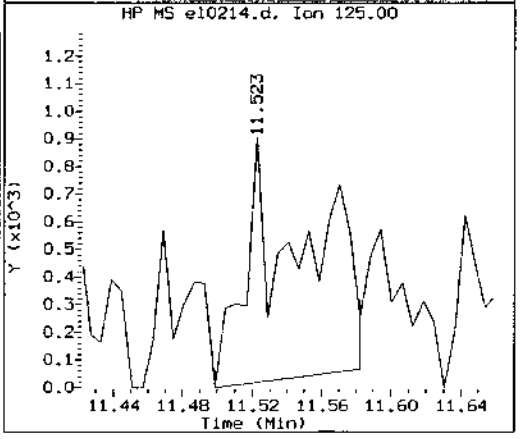
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

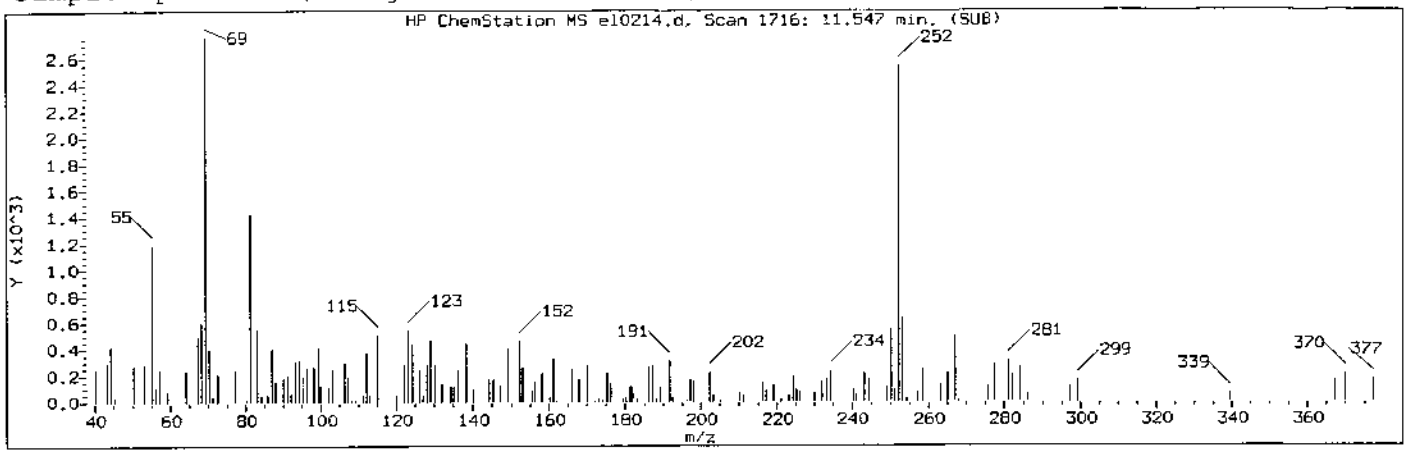
Sample Name: XXXXX Lab Sample ID: 6477564

Compound Number	: 172
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1716
Retention Time (minutes)	: 11.547
Relative Retention Time	: 0.00100
Quant Ion	: 252.00
Area (flag)	: 3180M
On-column Amount (ng/ul)	: 0.1735

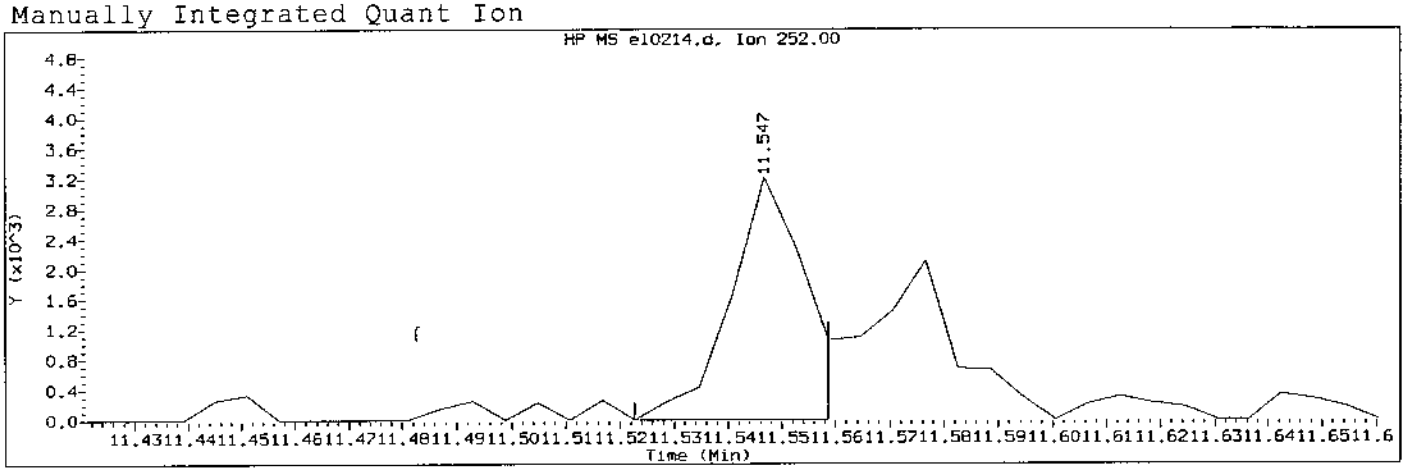
PCH09 9416

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sample Name: XXXXX Lab Sample ID: 6477564

Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1716
Retention Time (minutes) : 11.547
Quant Ion : 252.00
Area (flag) : 3180M
On-column Amount (ng/ul) : 0.1735
Integration start scan : 1711 Integration stop scan: 1717
Y at integration start : 0 Y at integration end: 0

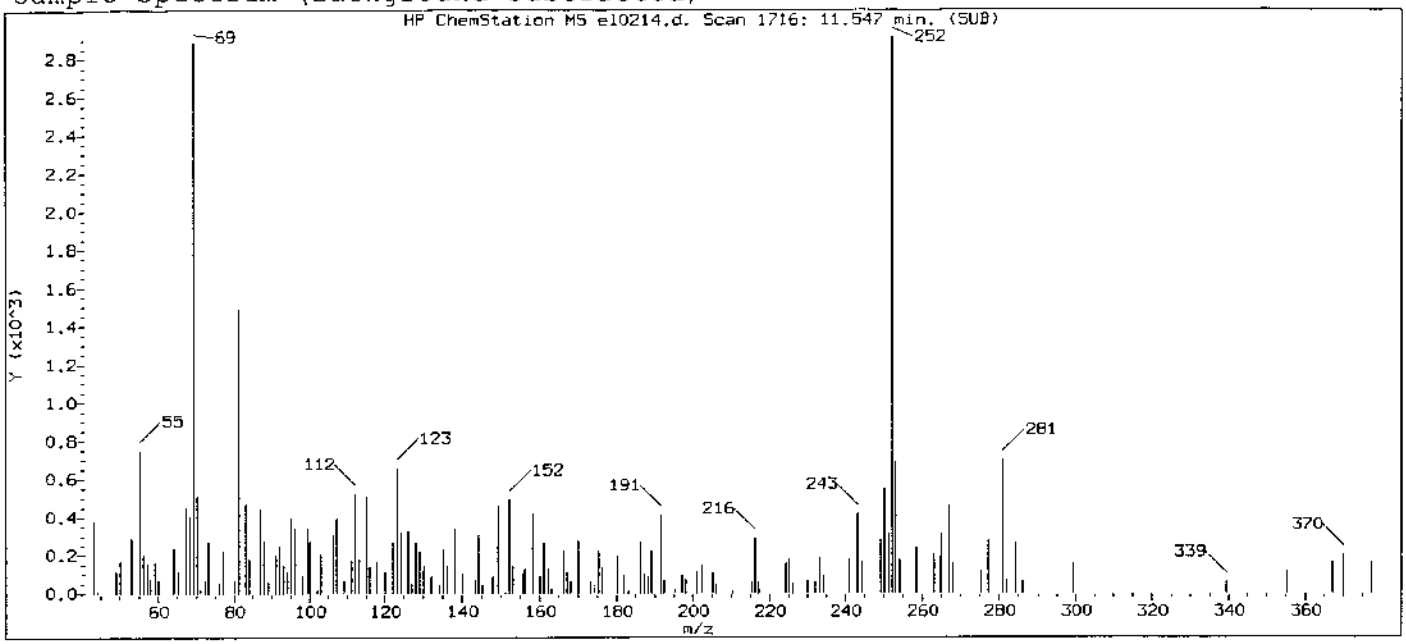
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

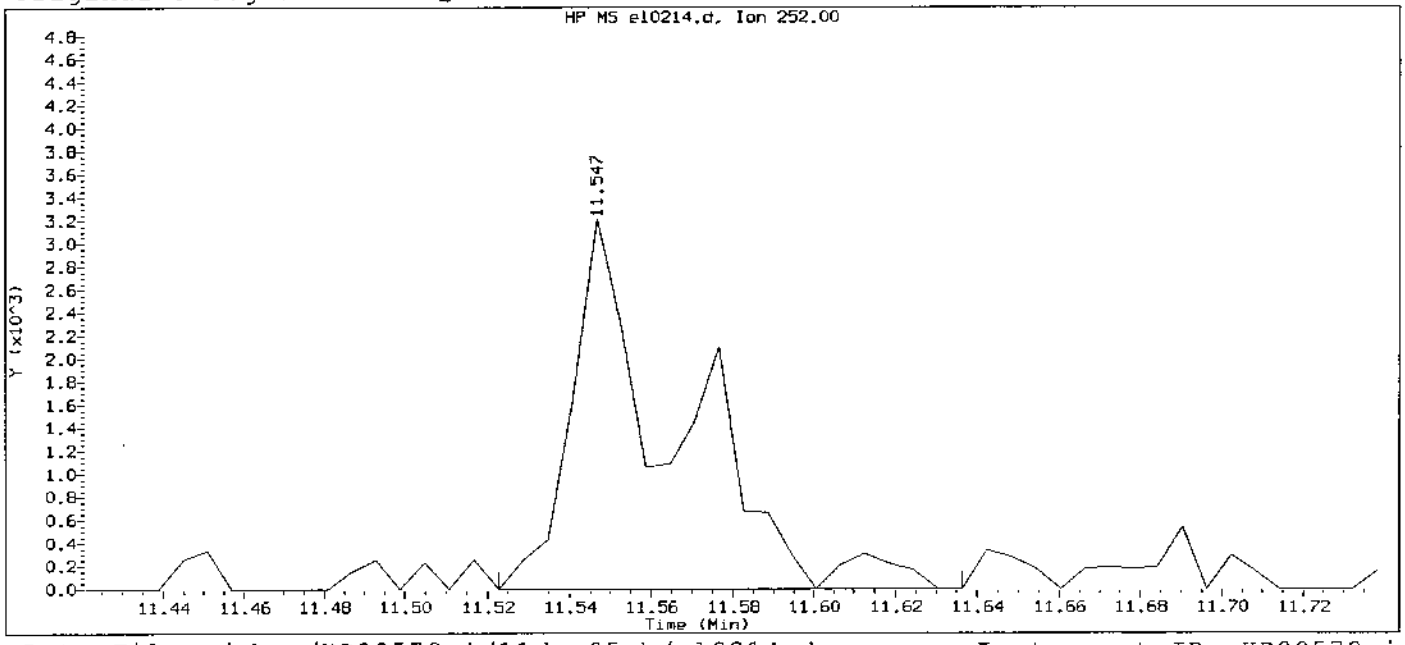
PCH89 8417

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 14:57 msw02109

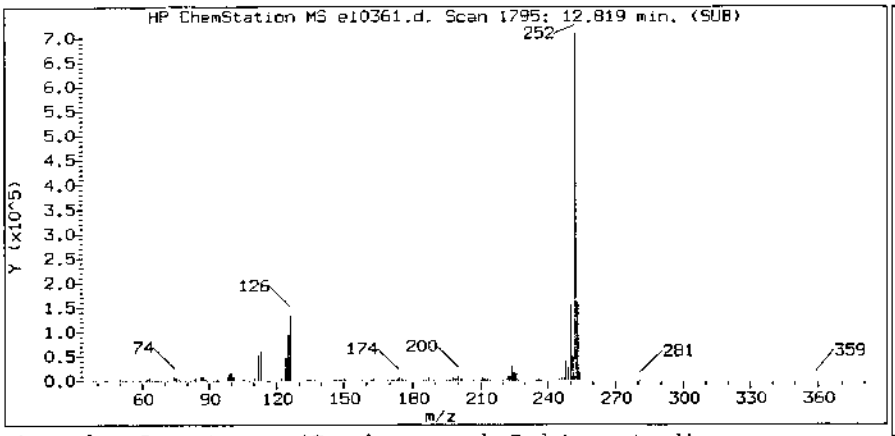
Sample Name: XXXXX Lab Sample ID: 6477564

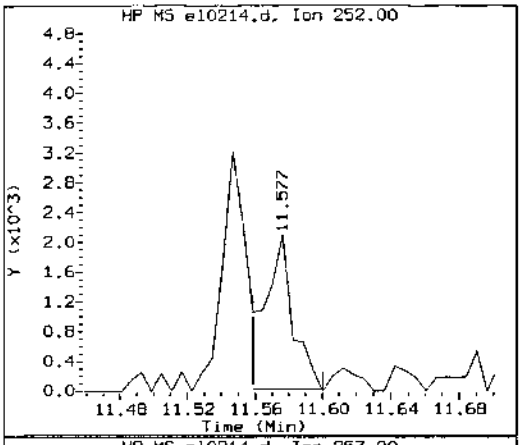
Compound Number	: 172		
Compound Name	: Benzo(b)fluoranthene		
Scan Number	: 1716		
Retention Time (minutes)	: 11.547		
Quant Ion	: 252.00		
Area	: 5758		
On-column Amount (ng/ul)	: 0.3142		
Integration start scan	: 1711	Integration stop scan:	1730
Y at integration start	: 0	Y at integration end:	0

PCH89 0418

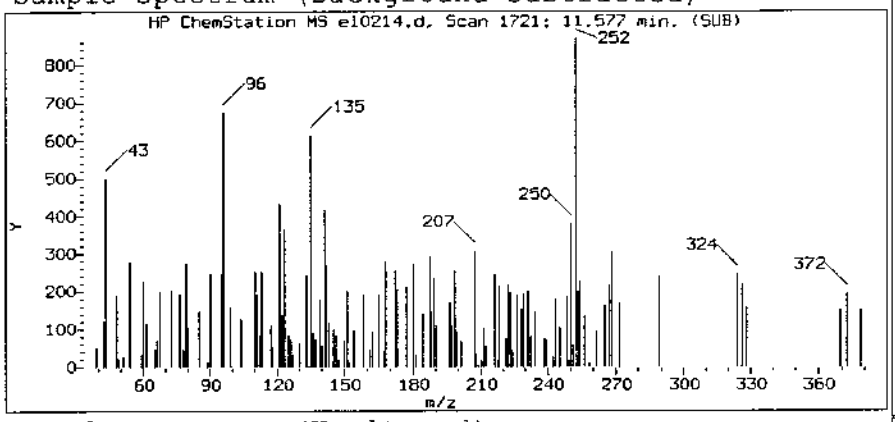
Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

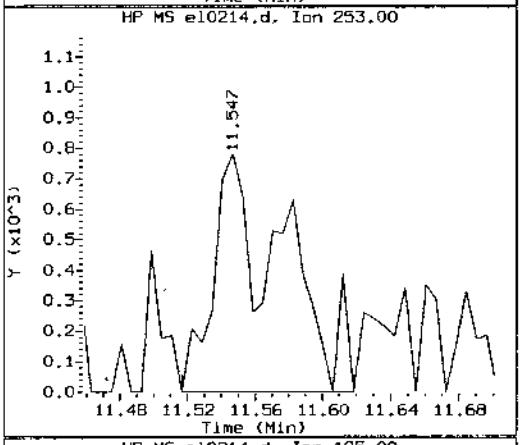
Reference Standard Spectrum for Benzo(k)fluoranthene



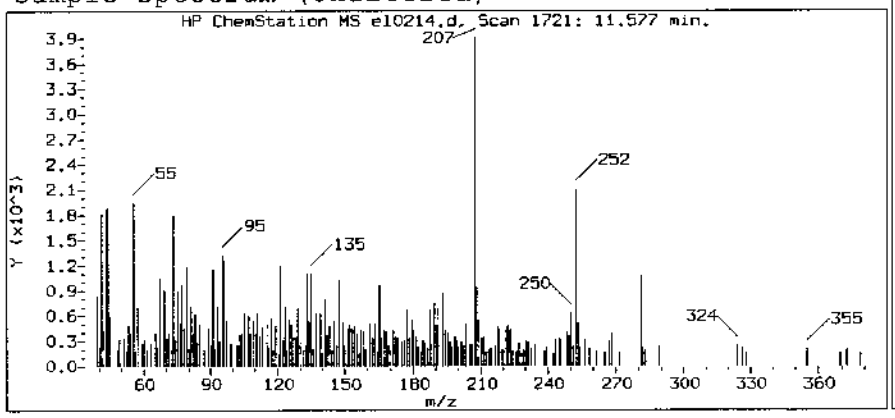


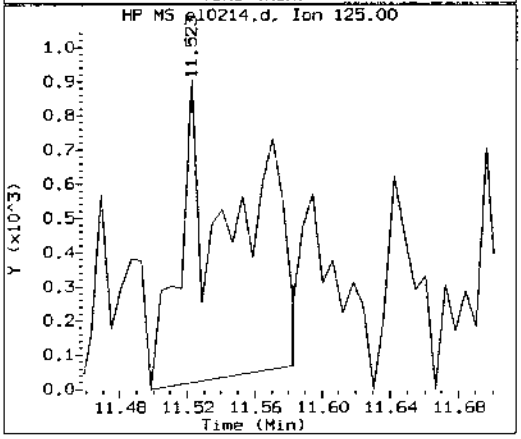
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

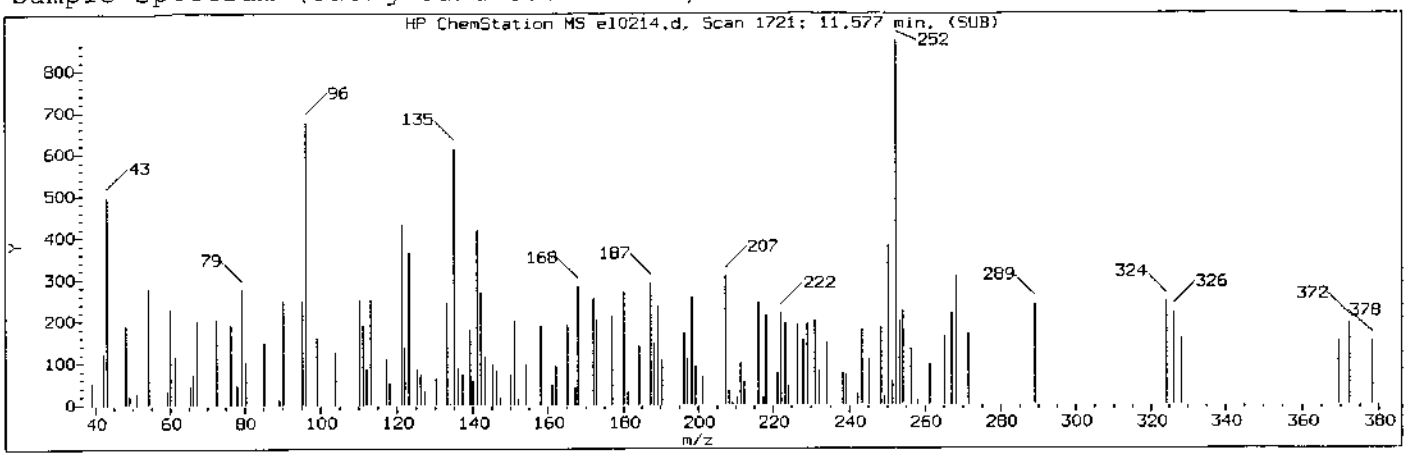
Sample Name: XXXXX Lab Sample ID: 6477564

Compound Number	: 173
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1721
Retention Time (minutes)	: 11.577
Relative Retention Time	: 0.00100
Quant Ion	: 252.00
Area (flag)	: 2568M
On-column Amount (ng/ul)	: 0.1384

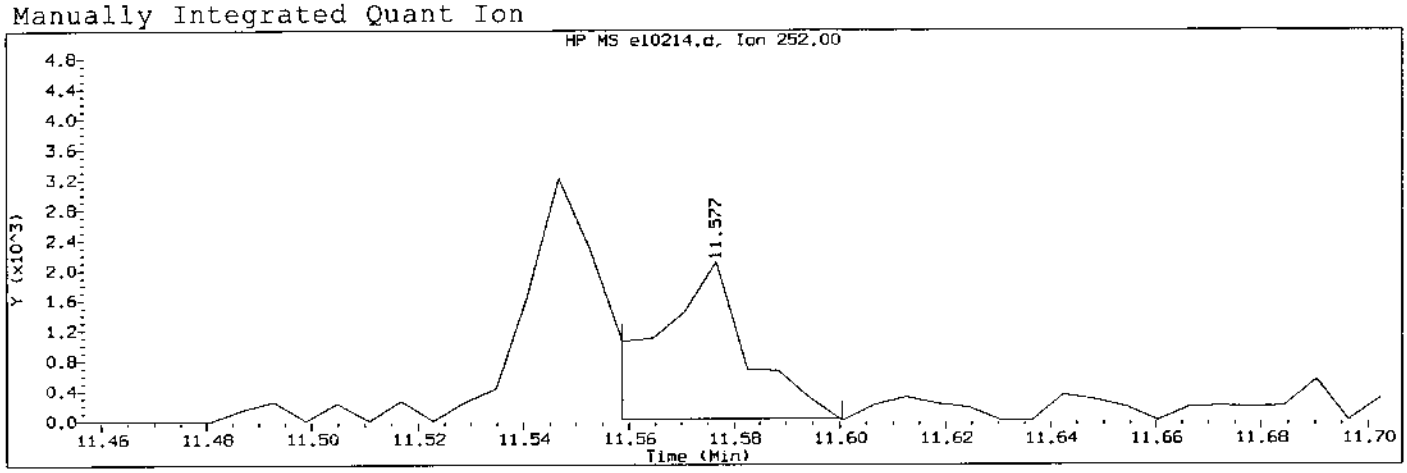
PCH09 0419

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sample Name: XXXXX Lab Sample ID: 6477564

Compound Number	: 173		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1721		
Retention Time (minutes)	: 11.577		
Quant Ion	: 252.00		
Area (flag)	: 2568M		
On-column Amount (ng/ul)	: 0.1384		
Integration start scan	: 1717	Integration stop scan:	1724
Y at integration start	: 23	Y at integration end:	23

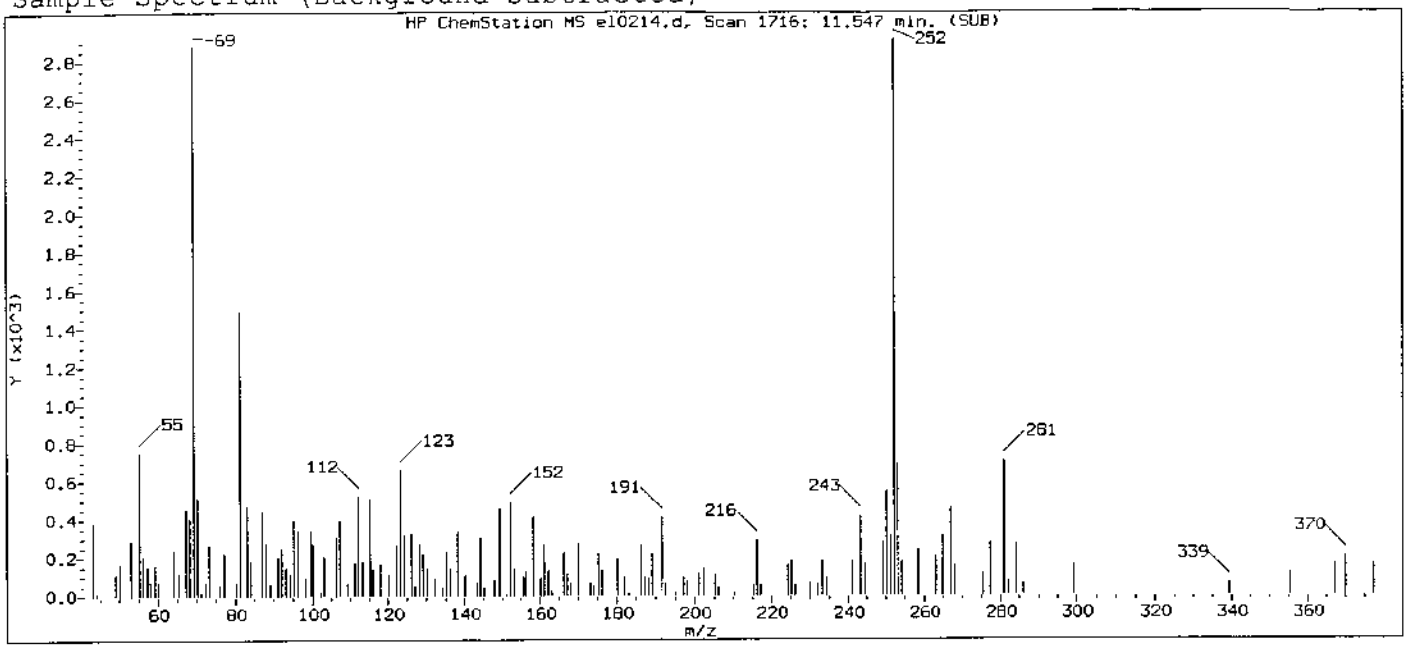
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08. Target 3.5 esignature user ID: msw02109

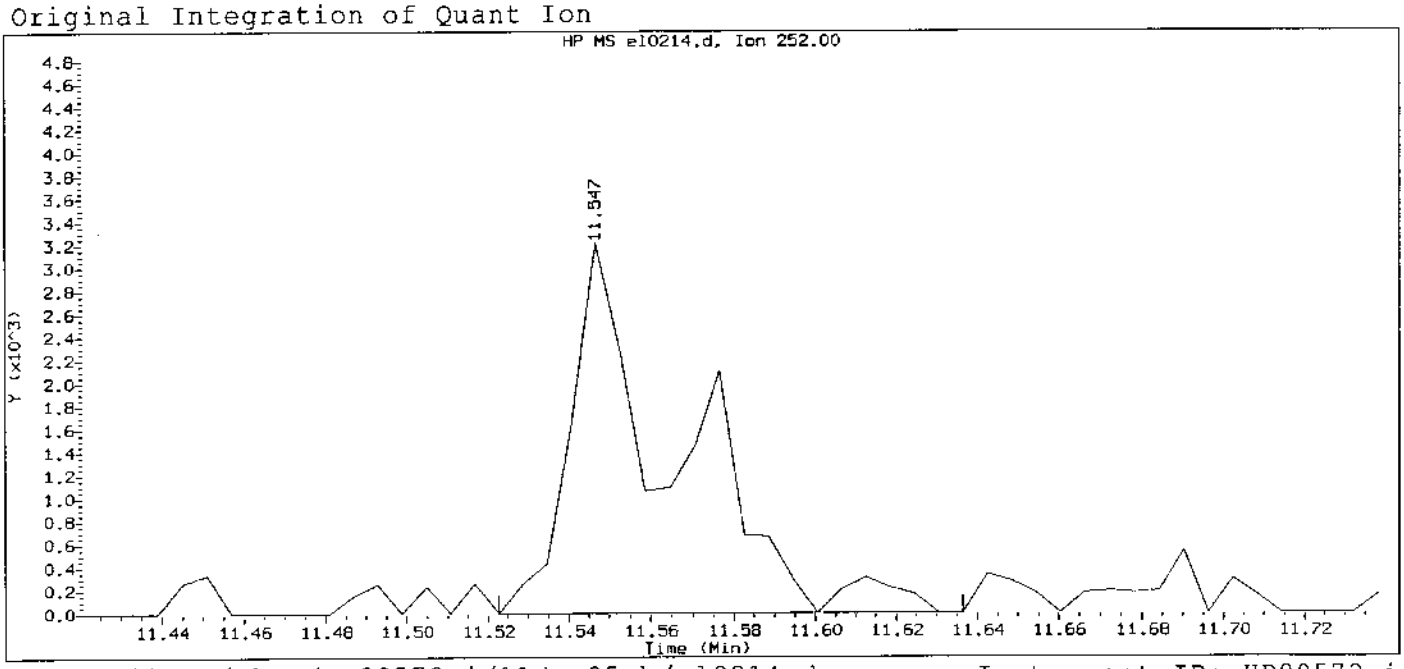
PCH89 0428

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0214.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 14:57 msw02109

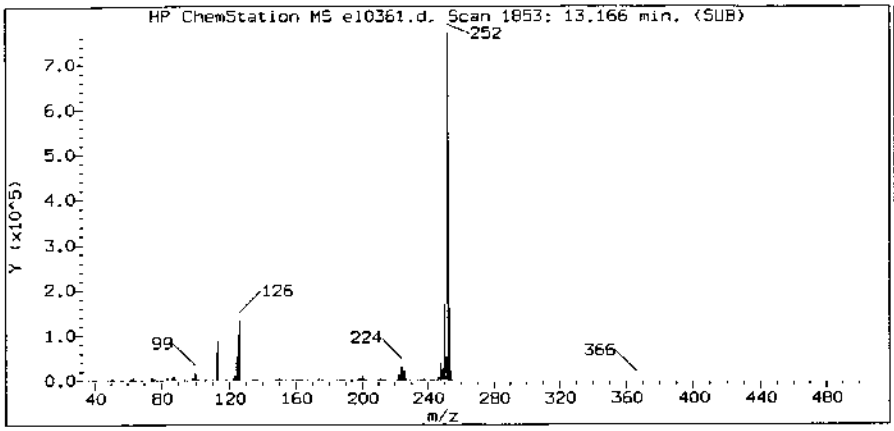
Sample Name: XXXXX Lab Sample ID: 6477564

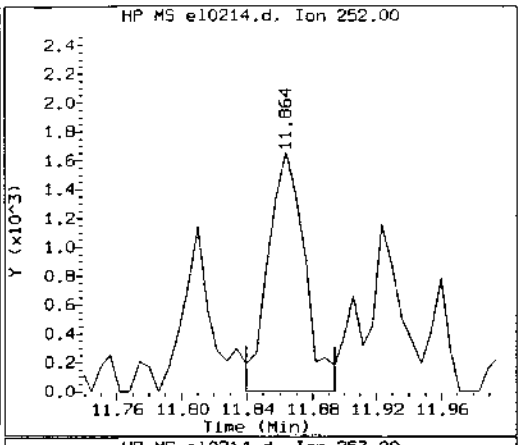
Compound Number	: 173		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1716		
Retention Time (minutes)	: 11.547		
Quant Ion	: 252.00		
Area	: 5758		
On-column Amount (ng/ul)	: 0.3104		
Integration start scan	: 1711	Integration stop scan:	1730
Y at integration start	: 0	Y at integration end:	0

PCH09 0421

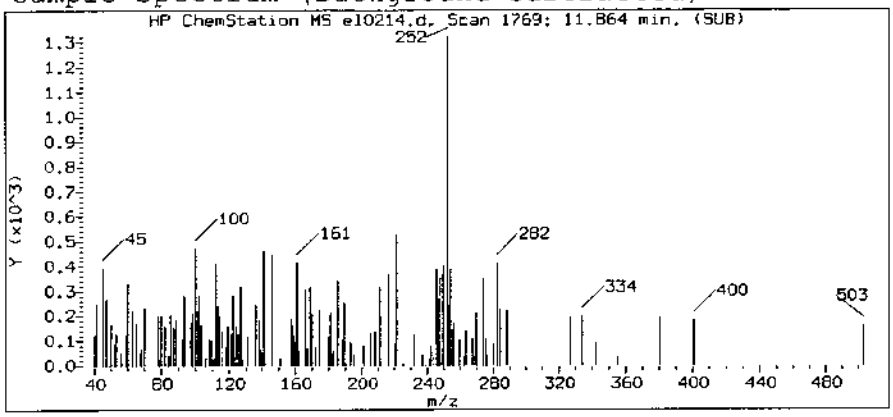
Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

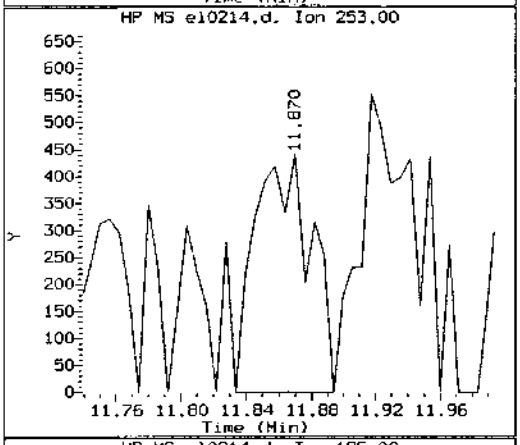
Reference Standard Spectrum for Benzo(a)pyrene



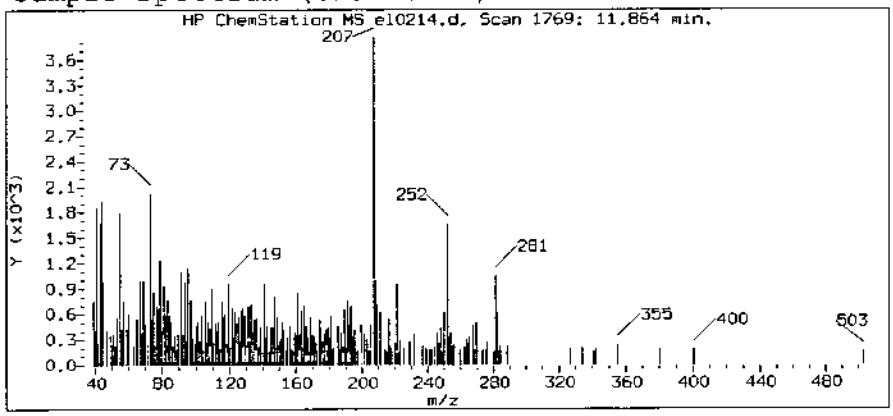


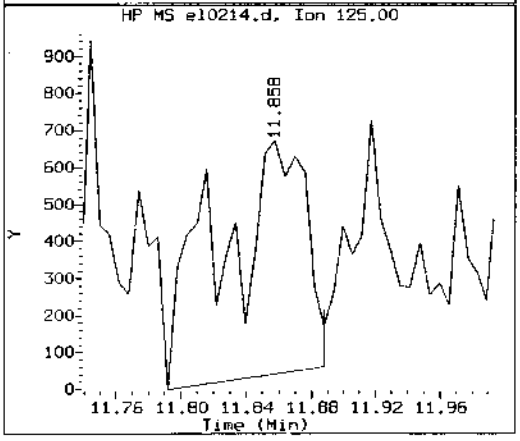
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10214.d
Injection date and time: 05-DEC-2011 14:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55

Sublist used: WPAH0826

Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sample Name: XXXXX

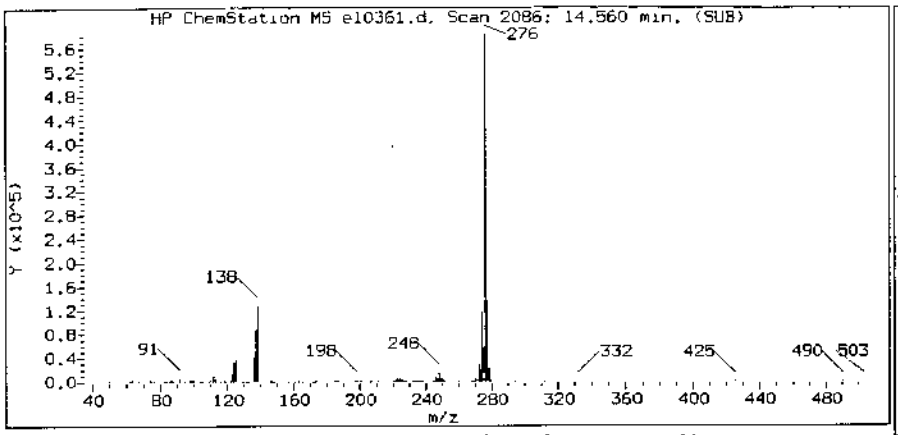
Lab Sample ID: 6477564

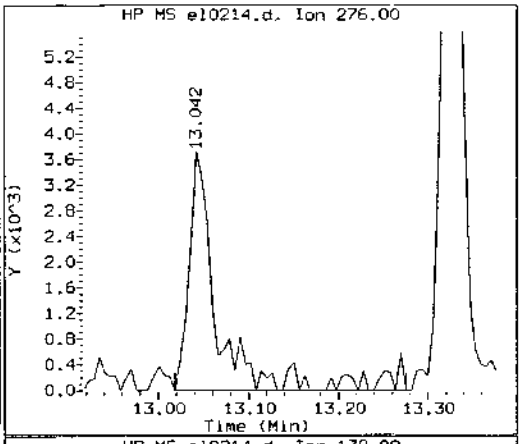
Compound Number	: 174
Compound Name	: Benzo(a)pyrene
Scan Number	: 1769
Retention Time (minutes)	: 11.864
Relative Retention Time	: 0.00050
Quant Ion	: 252.00
Area (flag)	: 2496
On-column Amount (ng/ul)	: 0.1538

PCH09 2422

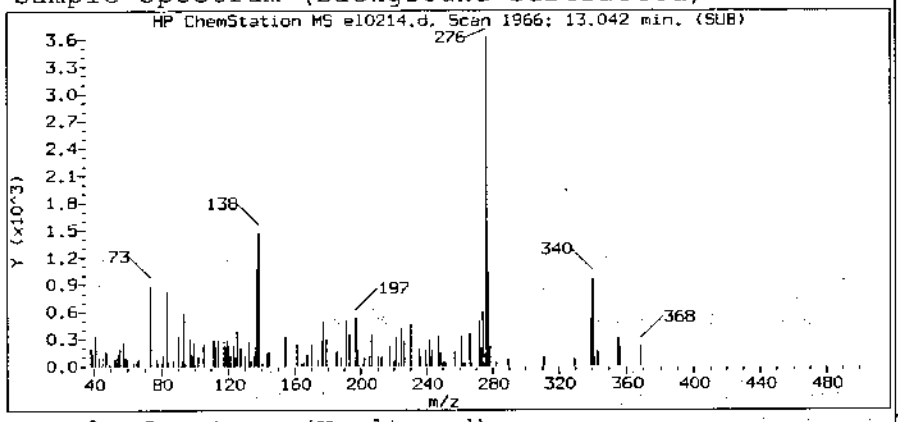
Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

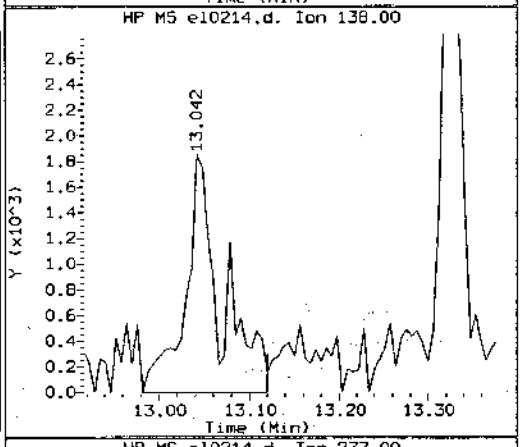
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



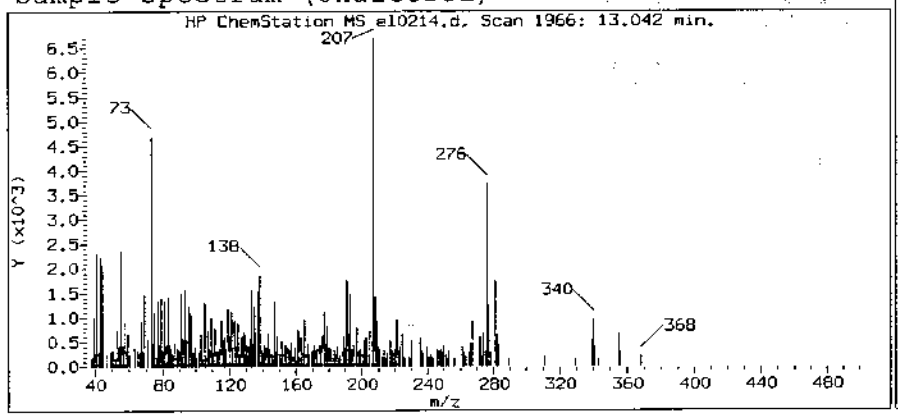


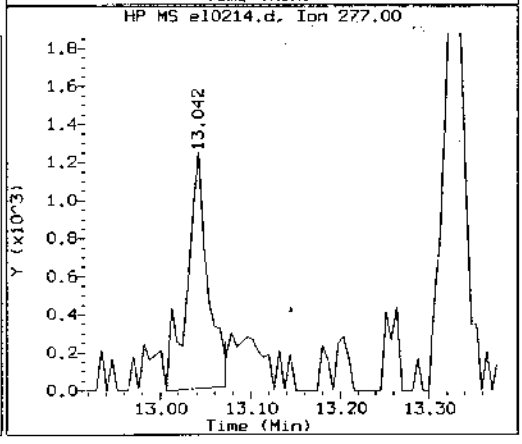
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10214.d
Injection date and time: 05-DEC-2011 14:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55

Sublist used: WPAH0826

Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sample Name: XXXXX

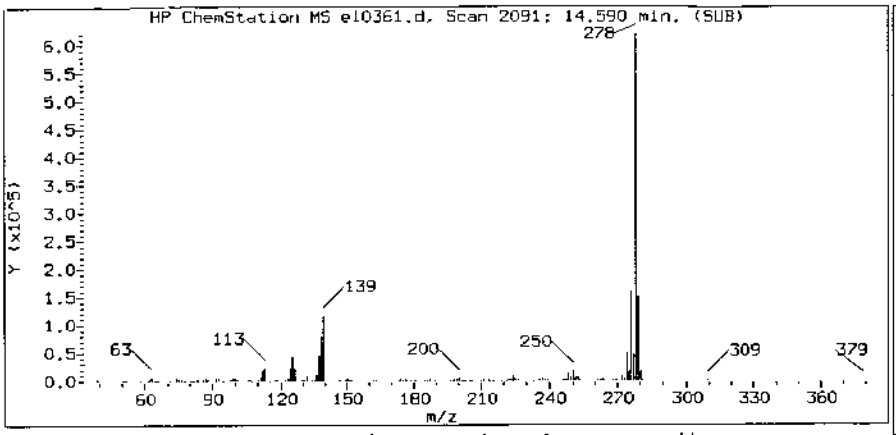
Lab Sample ID: 6477564

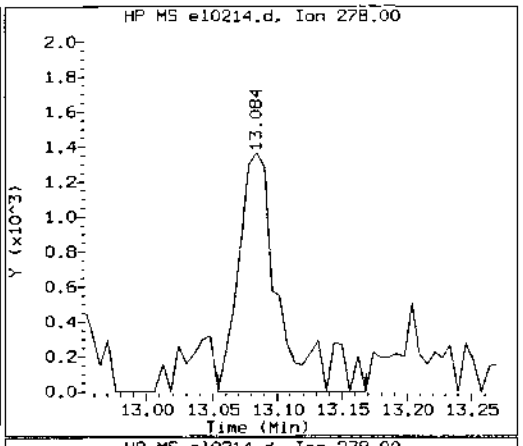
Compound Number	: 177
Compound Name	: Indeno(1,2,3-cd)pyrene
Scan Number	: 1966
Retention Time (minutes)	: 13.042
Relative Retention Time	: 0.00100
Quant Ion	: 276.00
Area (flag)	: 8302
On-column Amount (ng/ul)	: 0.4940

PCNB9 8423

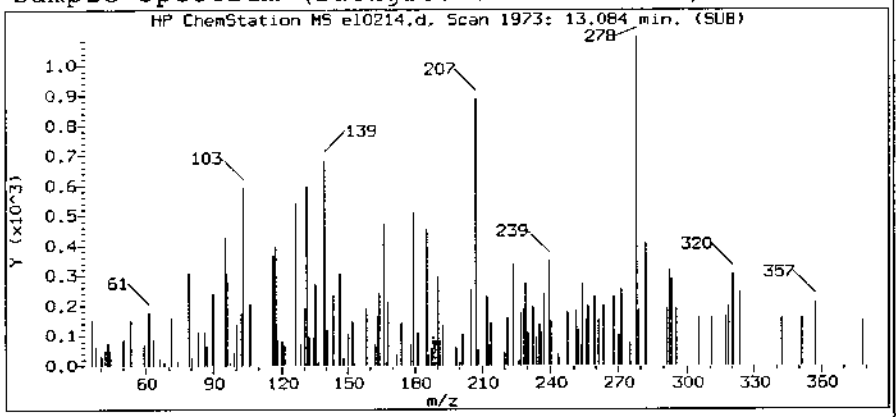
Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

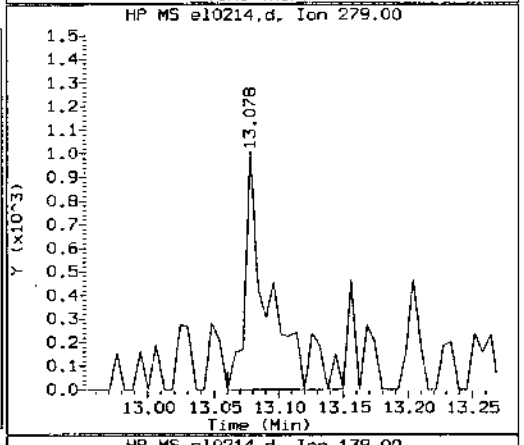
Reference Standard Spectrum for Dibenz(a,h)anthracene



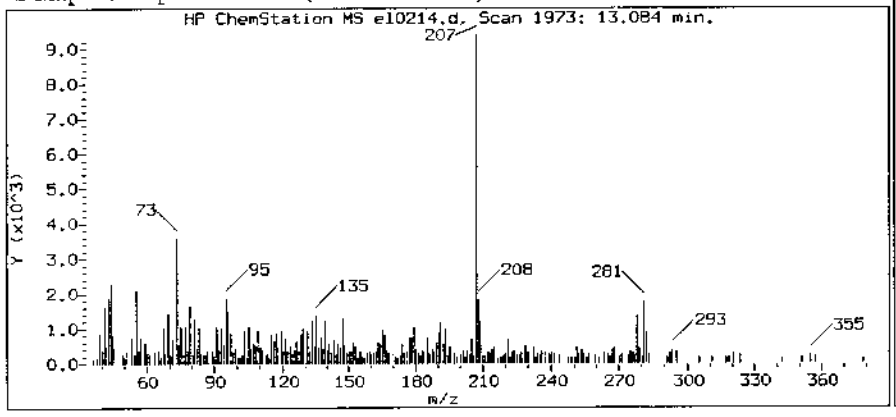


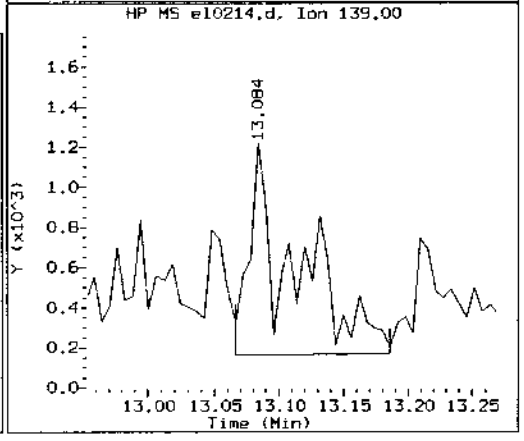
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10214.d
Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:04
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

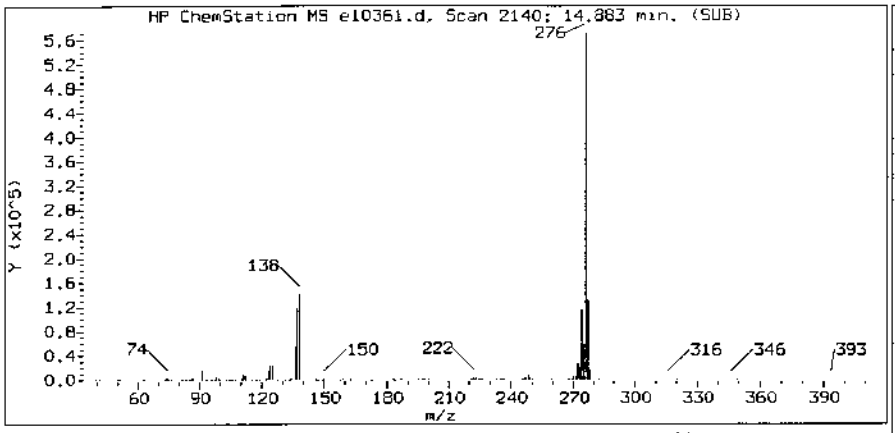
Sample Name: XXXXX
Lab Sample ID: 6477564

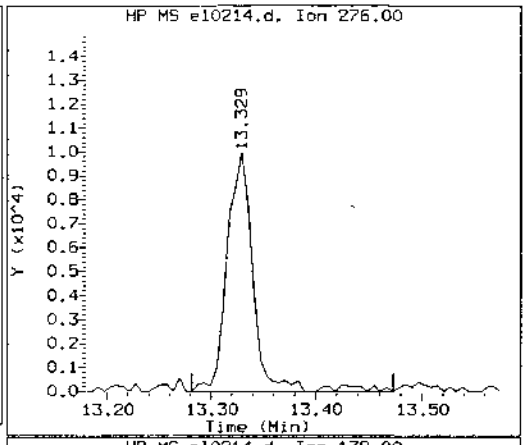
Compound Number	: 178
Compound Name	: Dibenz(a,h)anthracene
Scan Number	: 1973
Retention Time (minutes)	: 13.084
Relative Retention Time	: 0.00050
Quant Ion	: 278.00
Area (flag)	: 3062
On-column Amount (ng/ul)	: 0.2128

PCH89 0424

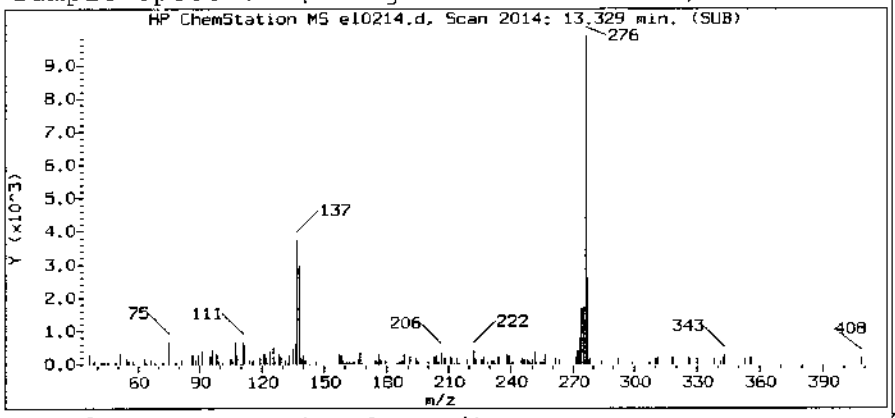
Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

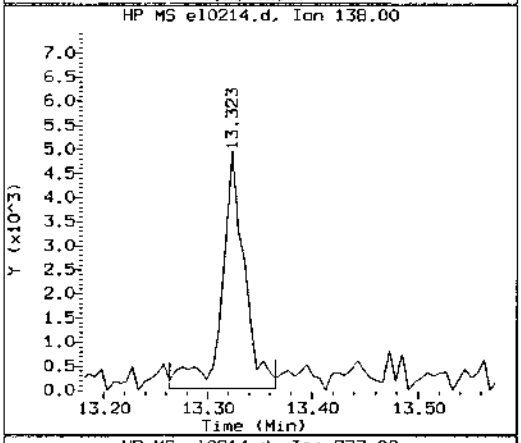
Reference Standard Spectrum for Benzo(g,h,i)perylene



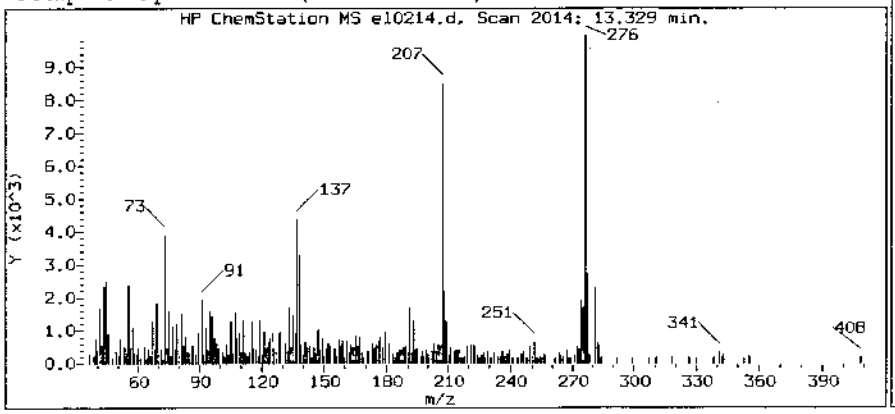


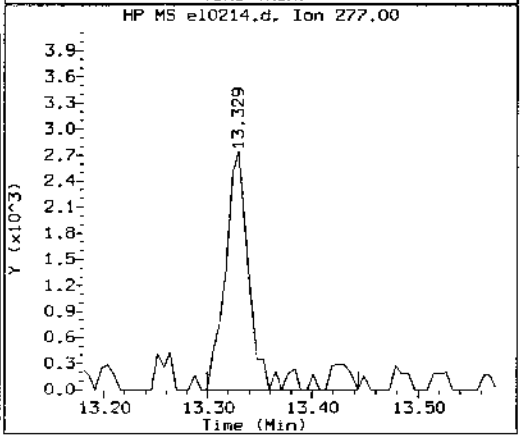
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10214.d
Injection date and time: 05-DEC-2011 14:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55

Sublist used: WPAH0826

Date, time and analyst ID of latest file update: 05-Dec-2011 15:00 msw02109

Sample Name: XXXXX

Lab Sample ID: 6477564

Compound Number	: 179
Compound Name	: Benzo(g,h,i)perylene
Scan Number	: 2014
Retention Time (minutes)	: 13.329
Relative Retention Time	: 0.00050
Quant Ion	: 276.00
Area (flag)	: 17402
On-column Amount (ng/ul)	: 1.2125

PCN69 0425

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT8D

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477565

Sample wt/vol: 1023 (g/mL)ML Lab File ID: el0215.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			0.5	U
208-96-8	Acenaphthylene			0.5	U
83-32-9	Acenaphthene			0.5	U
86-73-7	Fluorene			0.5	U
85-01-8	Phenanthrene			0.5	U
120-12-7	Anthracene			0.5	U
206-44-0	Fluoranthene			0.5	U
129-00-0	Pyrene			0.5	U
56-55-3	Benzo(a)anthracene			0.5	U
218-01-9	Chrysene			0.5	U
205-99-2	Benzo(b)fluoranthene			0.5	U
207-08-9	Benzo(k)fluoranthene			0.5	U
50-32-8	Benzo(a)pyrene			0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene			0.5	U
53-70-3	Dibenz(a,h)anthracene			0.5	U
191-24-2	Benzo(g,h,i)perylene			0.2	J

PCH89 8426

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477565

Data file: /chem/HP09572.i/11dec05.b/el0215.d
Data file Sample Info. Line: XXXXX;6477565;
Date, time and analyst ID of latest file update: 05-Dec-2011 15:01 msw02109

Injection date and time: **05-DEC-2011 14:28**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1023 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	4.625	(-0.006)	559	152	90147	(-11)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	385654	(-18)	20.00	
98) Acenaphthene-d10	7.263	(0.000)	1000	164	242957	(-21)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	425026	(-20)	20.00	
167) Pyrene-d10	9.615	(0.000)	1393	212	476044	(-26)	20.00	
175) Perylene-d12	11.924	(0.000)	1779	264	318335	(-29)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	730635	87.265	87%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.737	(-0.001)	172	1455381	98.991	99%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1344377	93.621	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)
53) Naphthalene	(2)				Not Detected					0.1
95) Acenaphthylene	(3)				Not Detected					0.1
99) Acenaphthene	(3)				Not Detected					0.1
111) Fluorene	(3)				Not Detected					0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)				Not Detected					0.1
147) Fluoranthene	(4)				Not Detected					0.1
154) Pyrene	(5)				Not Detected					0.1
166) Benzo(a)anthracene	(5)				Not Detected					0.1
168) Chrysene	(5)				Not Detected					0.1
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)	13.324	(0.001)	276	2348M	0.159	0.16			0.1

M = Compound was manually integrated.

PCH89 8427

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08. Target 3.5 esignature user ID: msw02109

XXXXX Lancaster Labs
Analysis Summary for GC/MS Semivolatiles 6477565

Data file: /chem/HP09572.i/11dec05.b/el0215.d
Data file Sample Info. Line: XXXXX;6477565;
Date, time and analyst ID of latest file update: 05-Dec-2011 15:01 msw02109

Injection date and time: **05-DEC-2011 14:28**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1023 ml Volume Injected (Vi): 1 ul

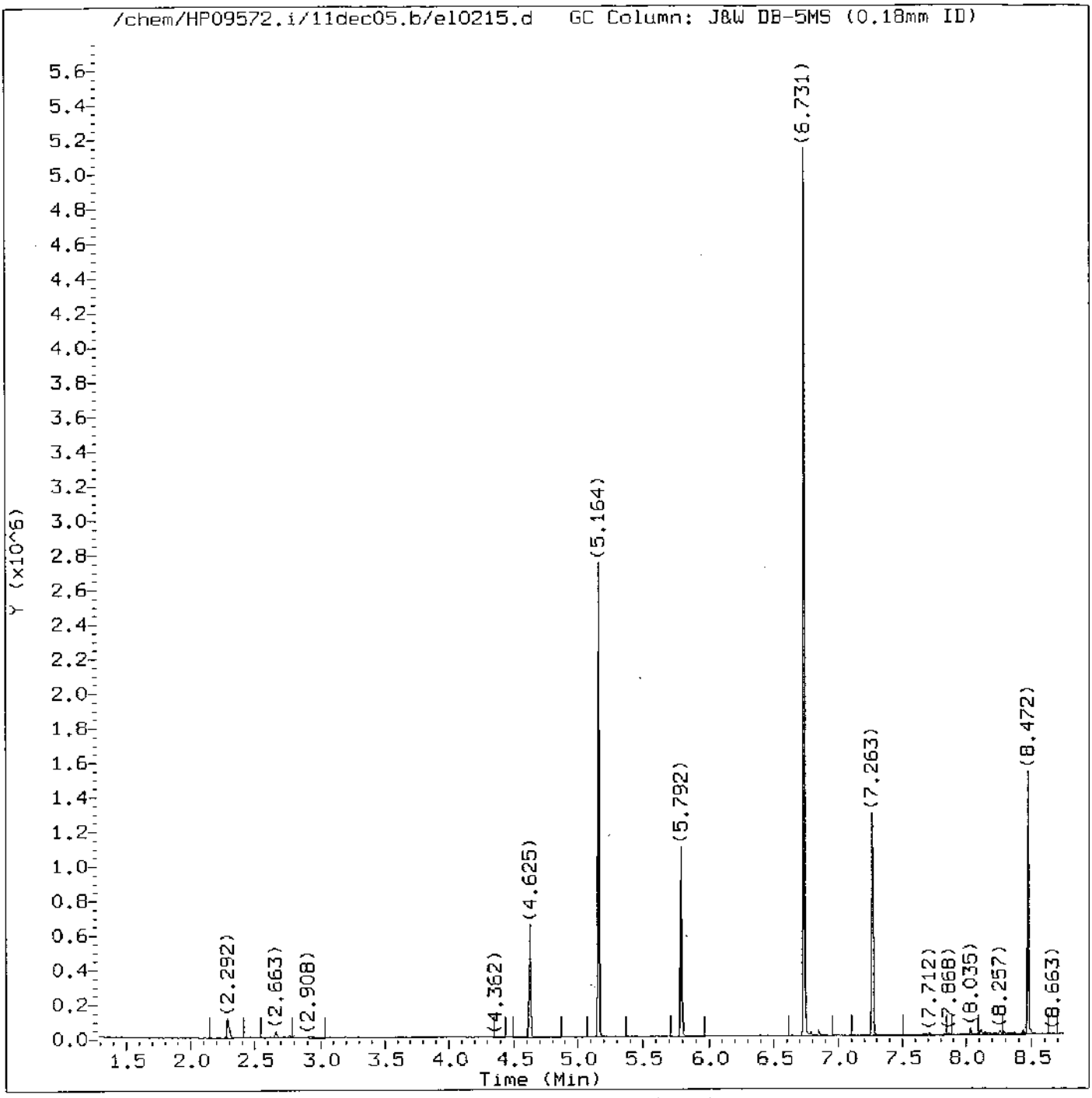
THIS SPACE
WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 16

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08. Target 3.5 esignature user ID: msw02109

FCHB9 8428

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

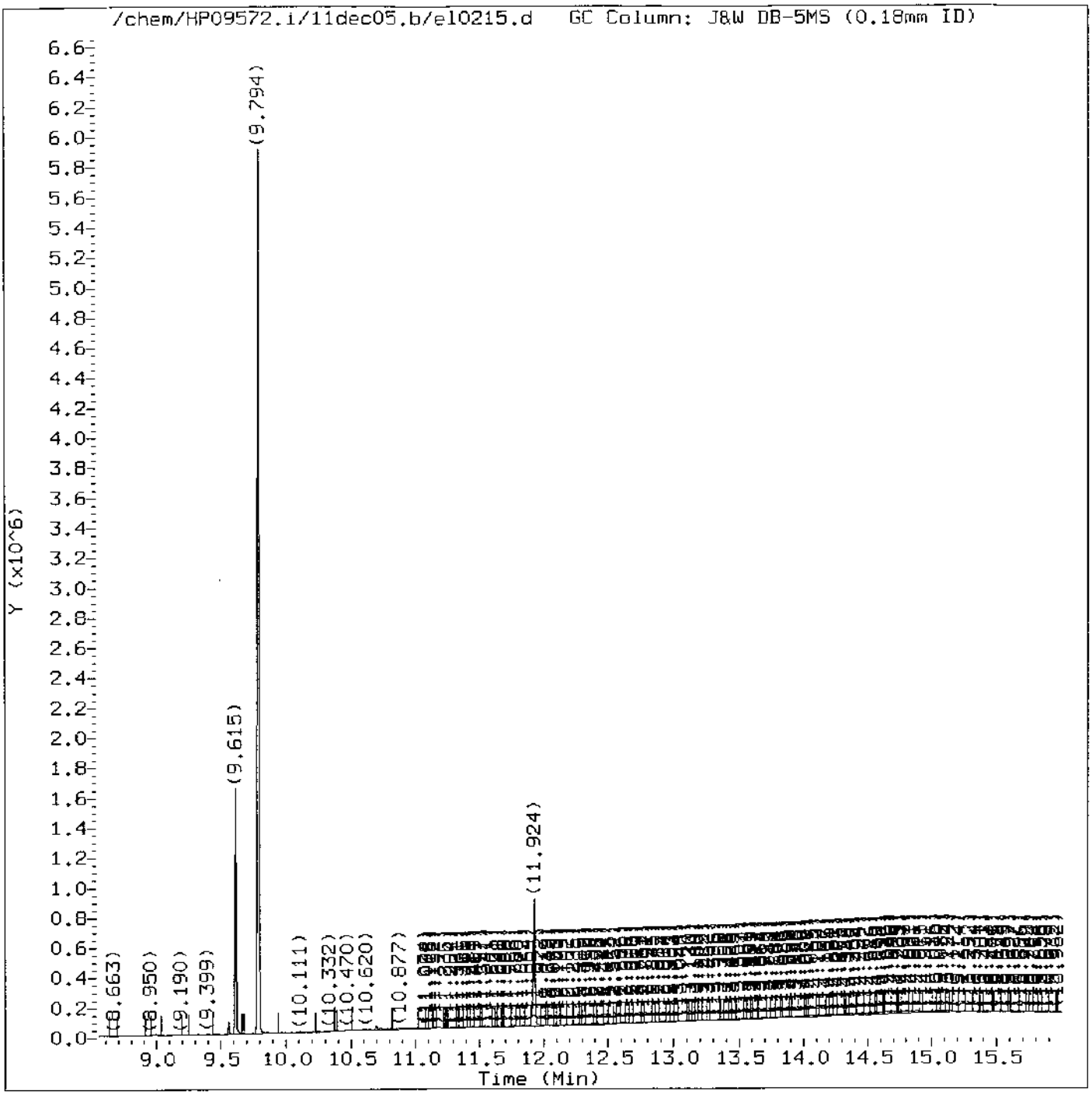
Data File: /chem/HP09572.i/11dec05.b/el0215.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:01 msw02109

Sample Name: XXXXX Lab Sample ID: 6477565

PQH89 8429

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0215.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:01 msw02109

Sample Name: XXXXX Lab Sample ID: 6477565

PCH89 8438

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0215.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:01 msw02109

Sample Name: XXXXX Lab Sample ID: 6477565

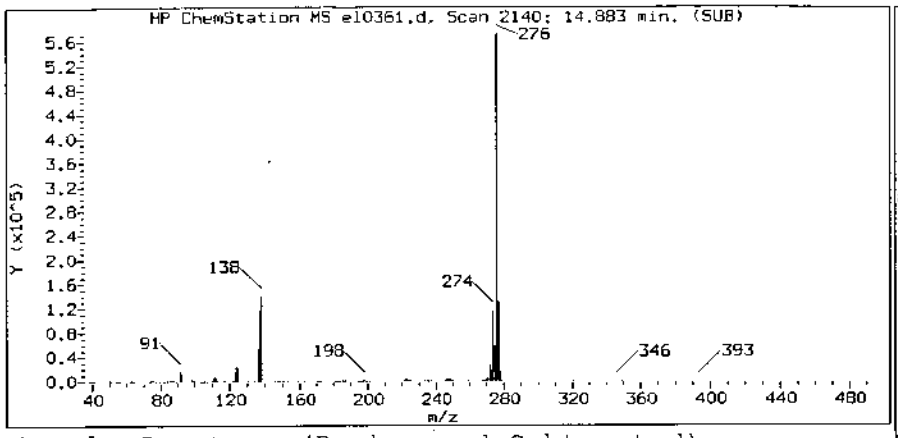
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	90147	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	730635	87.265
52)*Naphthalene-d8	(2)	5.792	136	385654	20.000
78)$2-Fluorobiphenyl	(3)	6.737	172	1455381	98.991
98)*Acenaphthene-d10	(3)	7.263	164	242957	20.000
135)*Phenanthrene-d10	(4)	8.472	188	425026	20.000
167)*Pyrene-d10	(5)	9.615	212	476044	20.000
156)$Terphenyl-d14	(5)	9.794	244	1344377	93.621
175)*Perylene-d12	(6)	11.924	264	318335	20.000
179) Benzo(g,h,i)perylene	(6)	13.323	276	2348M	0.159

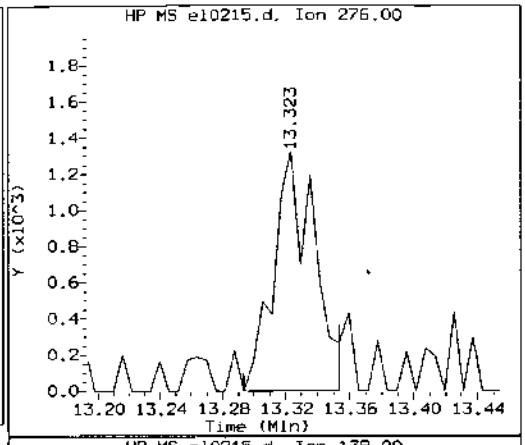
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PCH09 8431

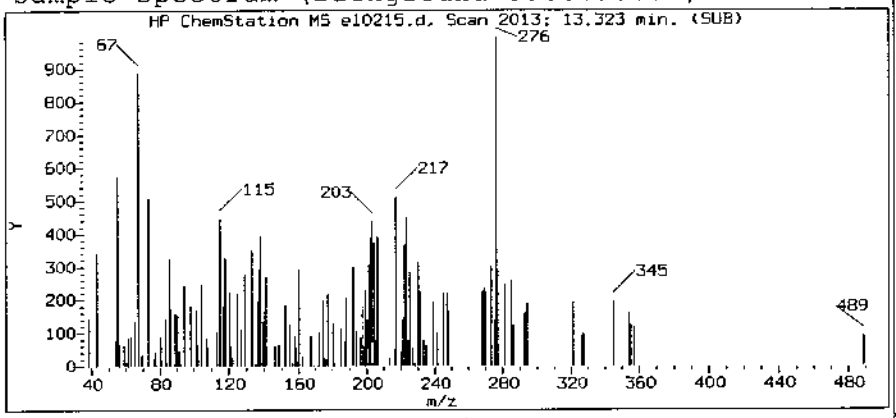
Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

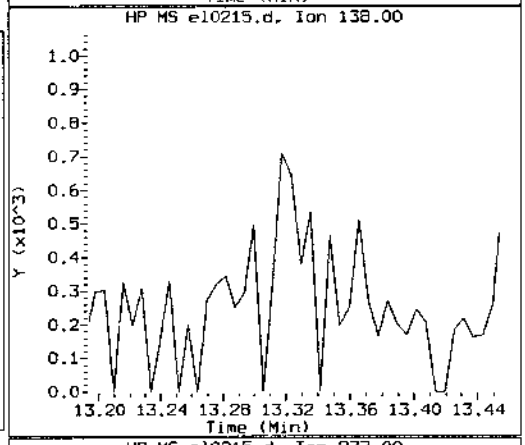
Reference Standard Spectrum for Benzo(g,h,i)perylene



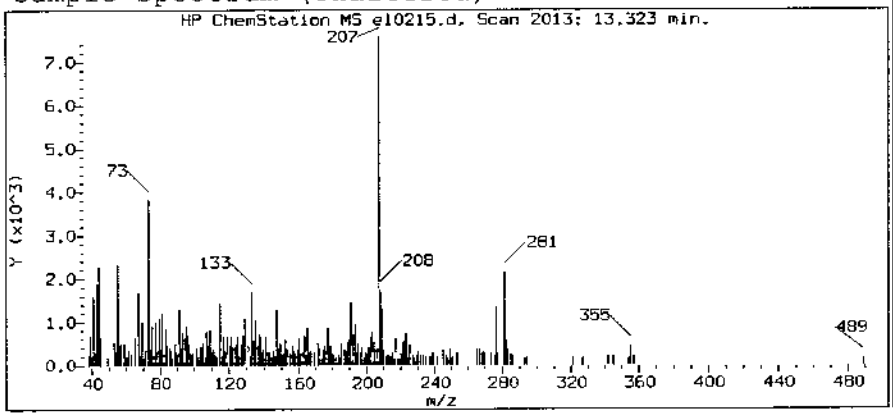


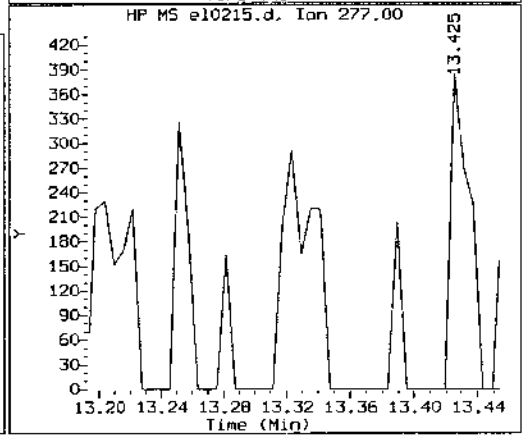
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10215.d
Injection date and time: 05-DEC-2011 14:28

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:01 msw02109

Sublist used: WPAH0826

Sample Name: XXXXX

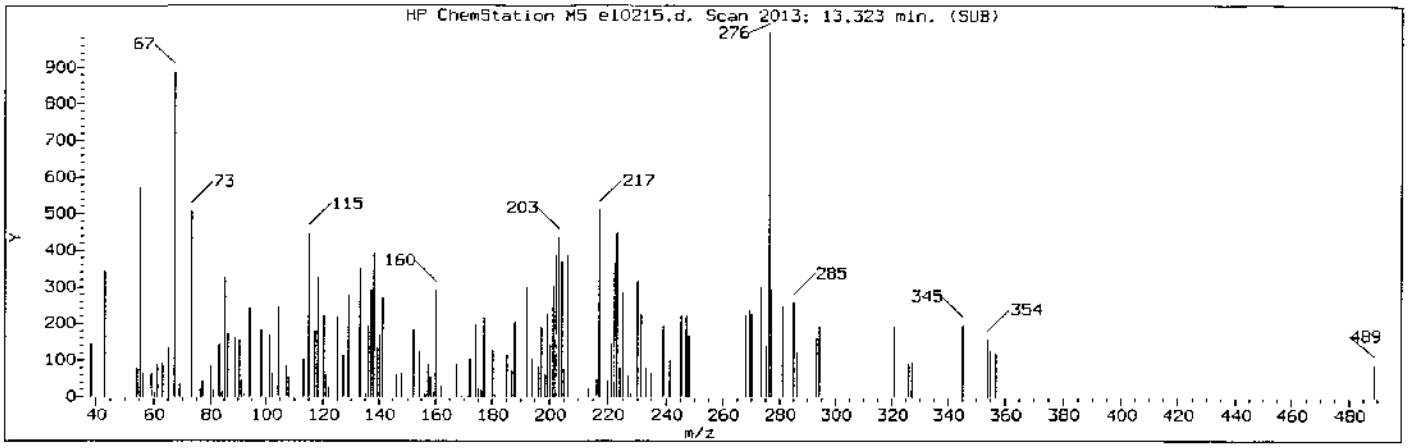
Lab Sample ID: 6477565

Compound Number	: 179
Compound Name	: Benzo(g,h,i)perylene
Scan Number	: 2013
Retention Time (minutes)	: 13.323
Relative Retention Time	: 0.00100
Quant Ion	: 276.00
Area (flag)	: 2348M
On-column Amount (ng/ul)	: 0.1586

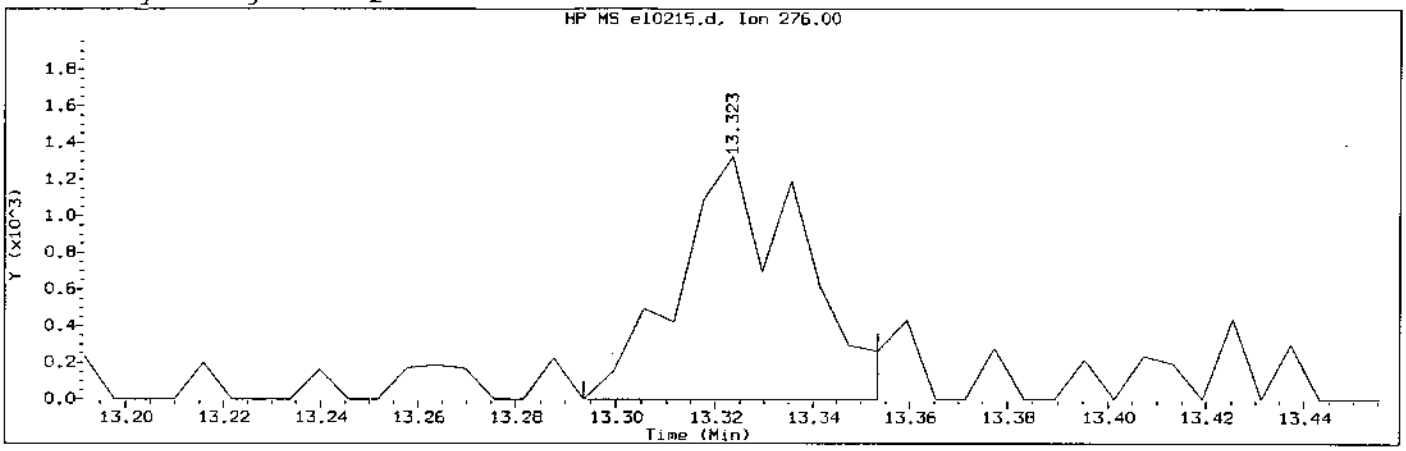
PCH89 3432

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10215.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:01 msw02109

Sample Name: XXXXX Lab Sample ID: 6477565

Compound Number	: 179		
Compound Name	: Benzo(g,h,i)perylene		
Scan Number	: 2013		
Retention Time (minutes)	: 13.323		
Quant Ion	: 276.00		
Area (flag)	: 2348M		
On-column Amount (ng/ul)	: 0.1586		
Integration start scan	: 2007	Integration stop scan:	2017
Y at integration start	: 0	Y at integration end:	0

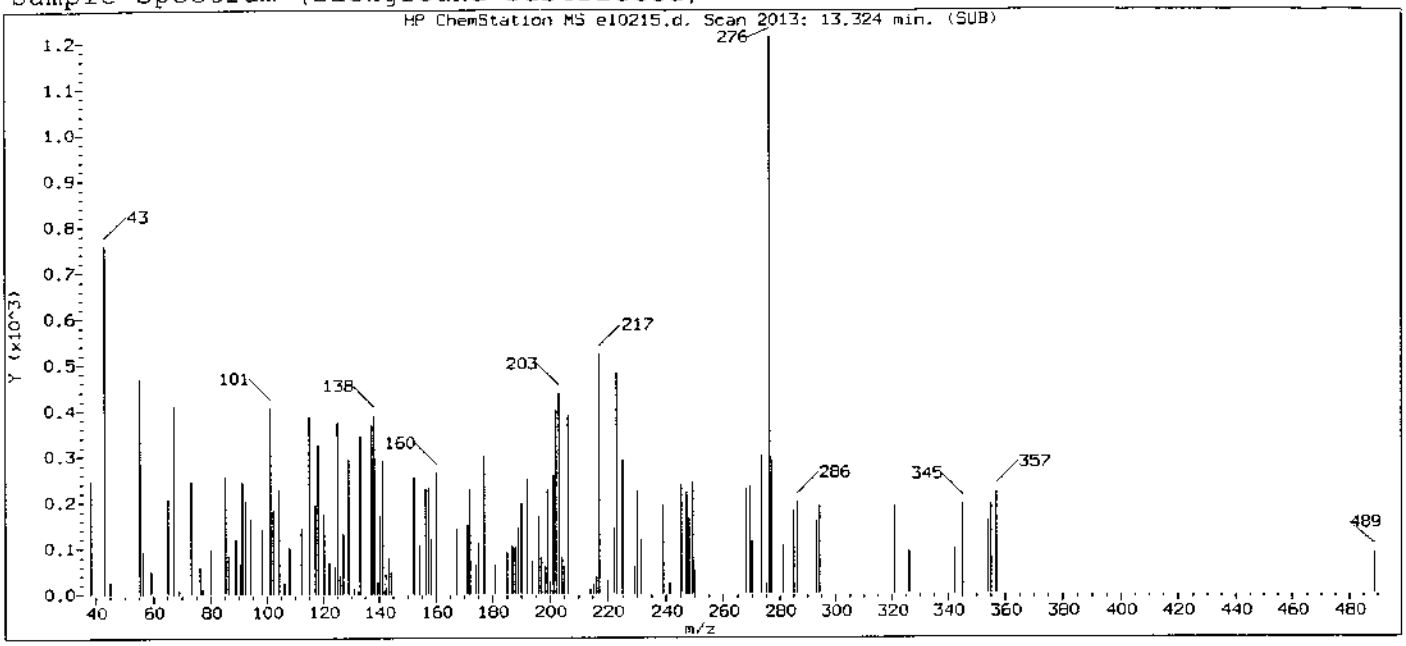
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08. Target 3.5 esignature user ID: msw02109

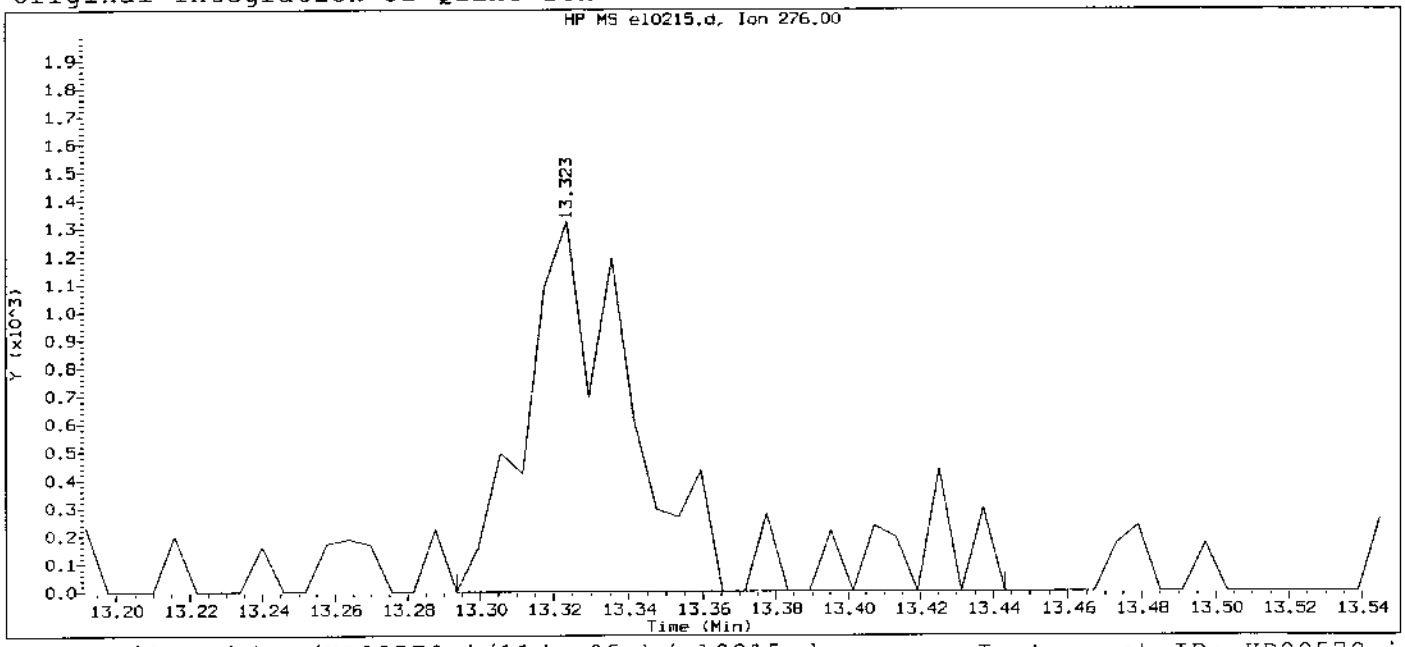
PCH89 8433

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10215.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 14:58 msw02109

Sample Name: XXXXX Lab Sample ID: 6477565

Compound Number	: 179		
Compound Name	: Benzo(g,h,i)perylene		
Scan Number	: 2013		
Retention Time (minutes)	: 13.323		
Quant Ion	: 276.00		
Area	: 3099		
On-column Amount (ng/ul)	: 0.2093		
Integration start scan	: 2007	Integration stop scan:	2032
Y at integration start	: 0	Y at integration end:	0

PCH89 8434

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:08.
Target 3.5 esignature user ID: msw02109

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT8S

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477566

Sample wt/vol: 1052 (g/mL)ML Lab File ID: el0216.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ UG/L	Q
91-20-3	Naphthalene		0.2	J
208-96-8	Acenaphthylene		0.5	U
83-32-9	Acenaphthene		0.5	J
86-73-7	Fluorene		0.1	J
85-01-8	Phenanthrene		0.5	U
120-12-7	Anthracene		0.5	U
206-44-0	Fluoranthene		0.5	U
129-00-0	Pyrene		0.5	U
56-55-3	Benzo(a)anthracene		0.5	U
218-01-9	Chrysene		0.5	U
205-99-2	Benzo(b)fluoranthene		0.5	U
207-08-9	Benzo(k)fluoranthene		0.5	U
50-32-8	Benzo(a)pyrene		0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.5	U
53-70-3	Dibenz(a,h)anthracene		0.5	U
191-24-2	Benzo(g,h,i)perylene		0.5	U

PCH89 0435

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477566

Data file: /chem/HP09572.i/11dec05.b/el0216.d
Data file Sample Info. Line: XXXXX;6477566;
Date, time and analyst ID of latest file update: 05-Dec-2011 16:21 jrr02820

Injection date and time: **05-DEC-2011 14:52**
Instrument ID: **HP09572.i** Batch: **11325WAX**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1052 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	4.625	(-0.006)	559	152	89026	(-12)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	399350	(-15)	20.00	
98) Acenaphthene-d10	7.263	(0.000)	1000	164	255778	(-17)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	445403	(-16)	20.00	
167) Pyrene-d10	9.614	(0.000)	1393	212	496583	(-23)	20.00	
175) Perylene-d12	11.924	(0.000)	1779	264	333956	(-25)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	753330	86.890	87%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731	(0.000)	172	1476032	95.363	95%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1361557	90.896	91%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)	5.810	(-0.000)	128	3815M	0.174	0.17			0.1
95) Acenaphthylene	(3)				Not Detected					0.1
99) Acenaphthene	(3)	7.293	(0.000)	153	7156	0.496	0.47			0.1
111) Fluorene	(3)	7.712	(0.000)	166	2359M	0.139	0.13			0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)				Not Detected					0.1
147) Fluoranthene	(4)				Not Detected					0.1
154) Pyrene	(5)				Not Detected					0.1
166) Benzo(a)anthracene	(5)				Not Detected					0.1
168) Chrysene	(5)				Not Detected					0.1
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

M = Compound was manually integrated.

PCN89 8436

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:33. Target 3.5 esignature user ID: jrr02820

XXXXX Lancaster Labs Analysis Summary for GC/MS Semivolatiles 6477566

Data file: /chem/HP09572.i/11dec05.b/el0216.d
Data file Sample Info. Line: XXXXX;6477566;
Injection date and time: **05-DEC-2011 14:52**
Instrument ID: **HP09572.i** Batch: **11325WAK**
Date, time and analyst ID of latest file update: 05-Dec-2011 16:21 jrr02820

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH08B26**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1052 ml Volume Injected (Vi): 1 ul

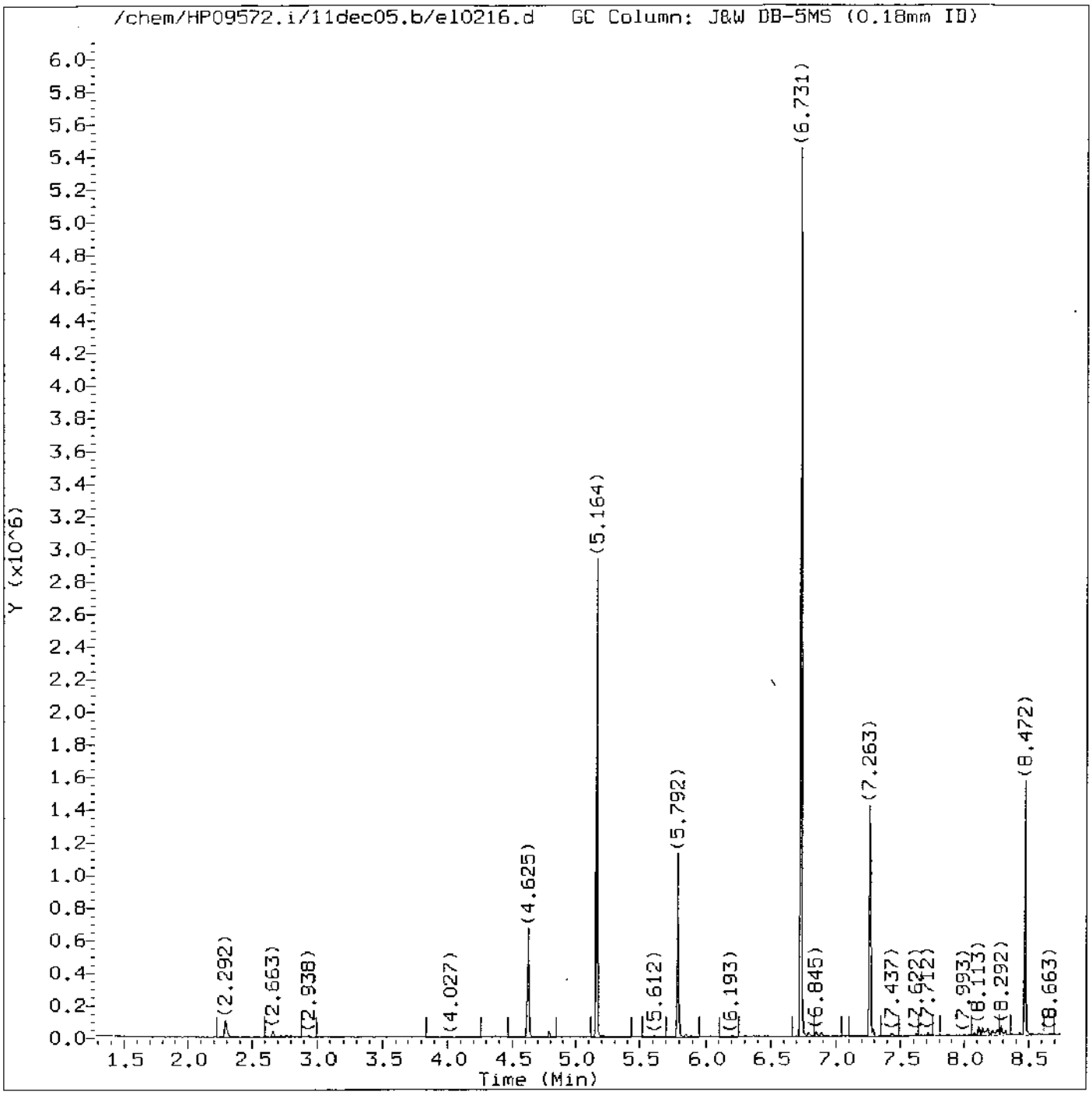
THIS SPACE
WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 16

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:33. Target 3.5 esignature user ID: jrr02820

PCH09 8437

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

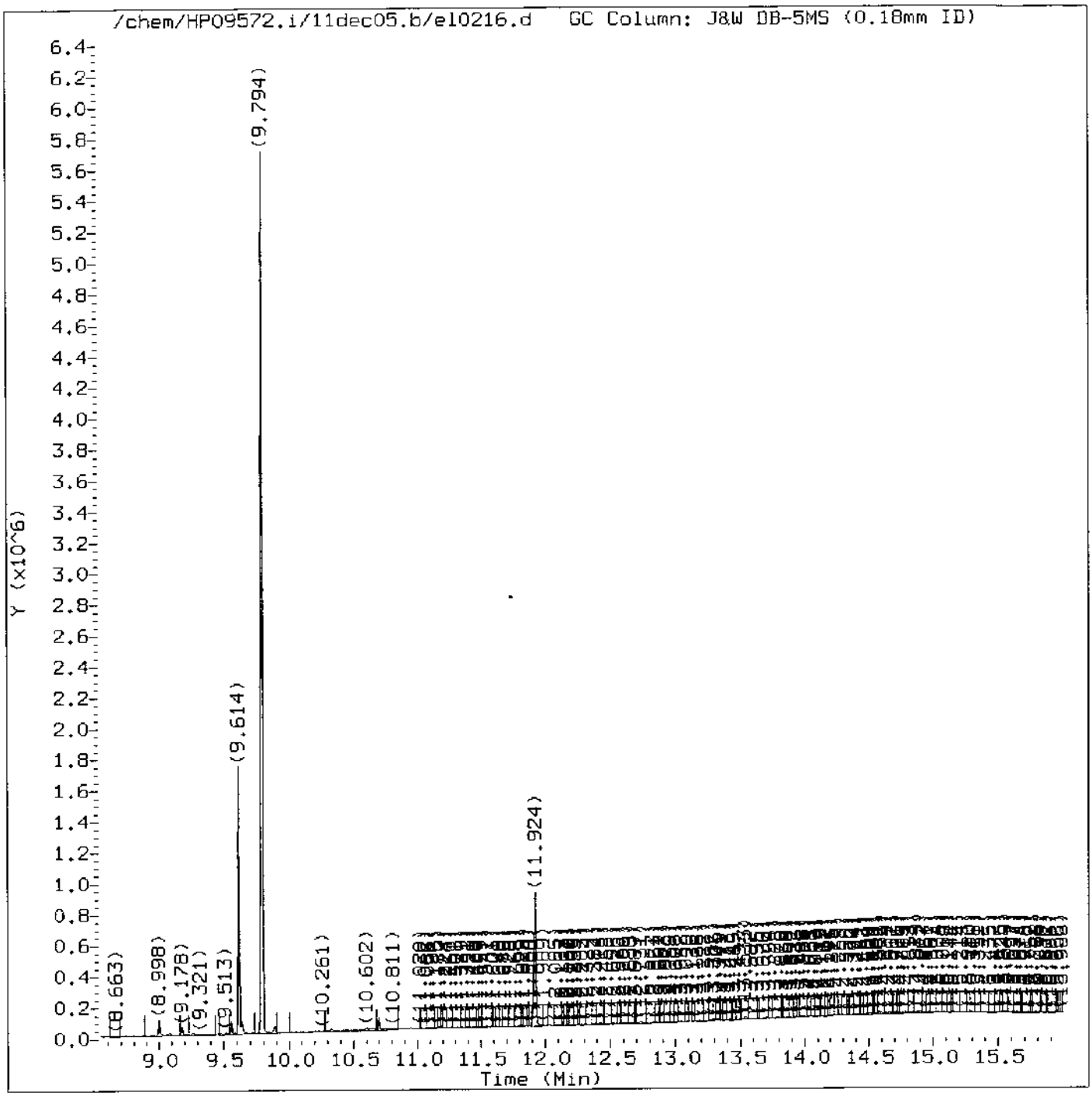
Data File: /chem/HP09572.i/11dec05.b/el0216.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:21 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477566

PCH09 8438

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:33.
Target 3.5 esignature user ID: jrr02820



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0216.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:21 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477566

PCH89 0439

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:33.
Target 3.5 esignature user ID: jrr02820

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0216.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:21 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477566

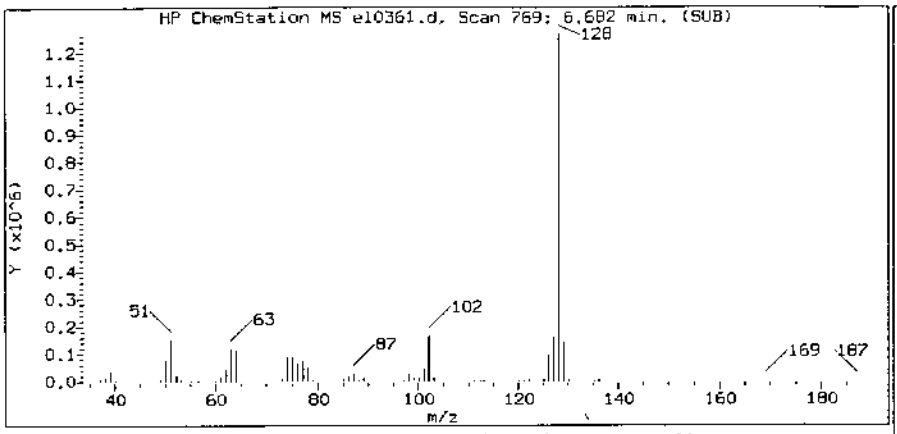
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	89026	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	753330	86.890
52)*Naphthalene-d8	(2)	5.792	136	399350	20.000
53) Naphthalene	(2)	5.810	128	3815M	0.174
78)$2-Fluorobiphenyl	(3)	6.731	172	1476032	95.363
98)*Acenaphthene-d10	(3)	7.263	164	255778	20.000
99) Acenaphthene	(3)	7.293	153	7156	0.496
111) Fluorene	(3)	7.712	166	2359M	0.139
135)*Phenanthrene-d10	(4)	8.472	188	445403	20.000
167)*Pyrene-d10	(5)	9.614	212	496583	20.000
156)$Terphenyl-d14	(5)	9.794	244	1361557	90.896
175)*Perylene-d12	(6)	11.924	264	333956	20.000

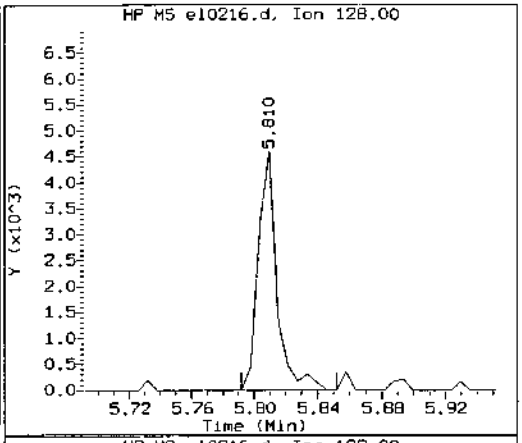
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PCH09 8448

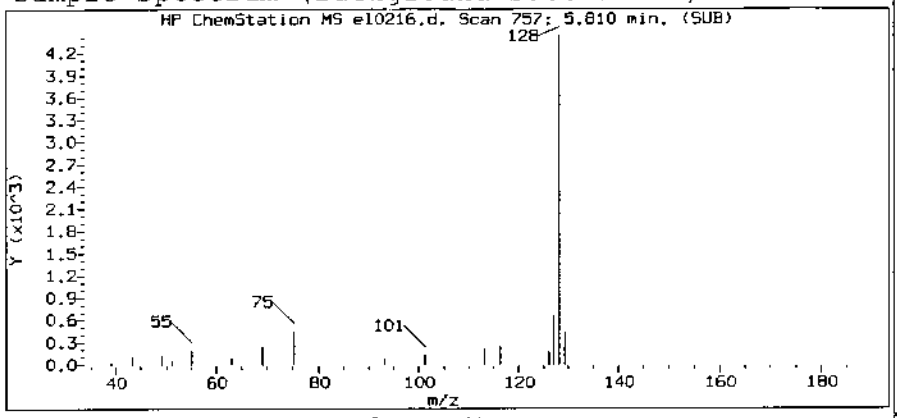
Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:33.
Target 3.5 esignature user ID: jrr02820

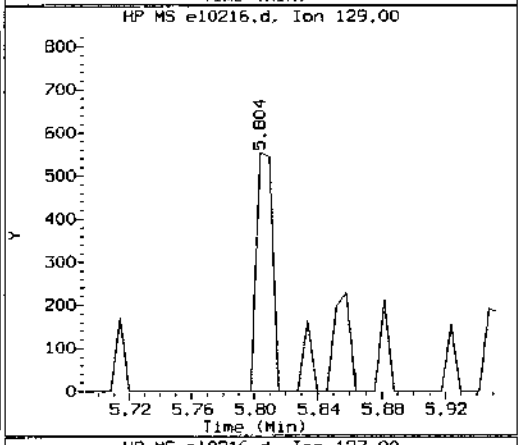
Reference Standard Spectrum for Naphthalene



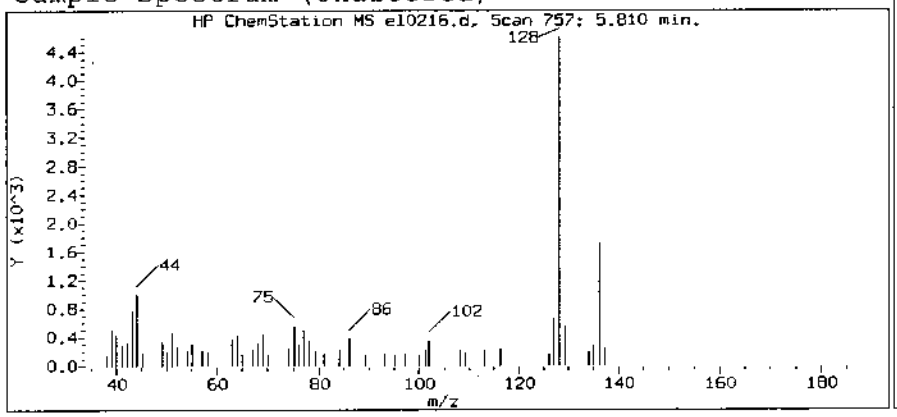


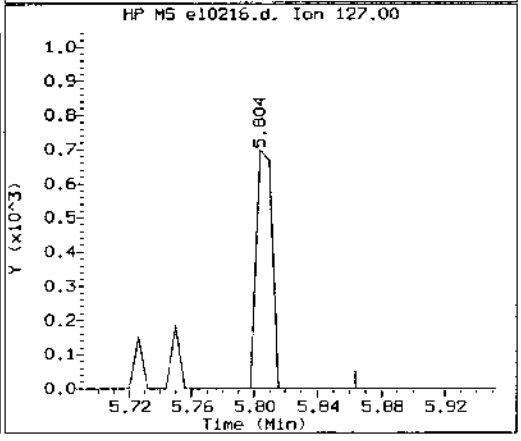
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10216.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:21 jrr02820

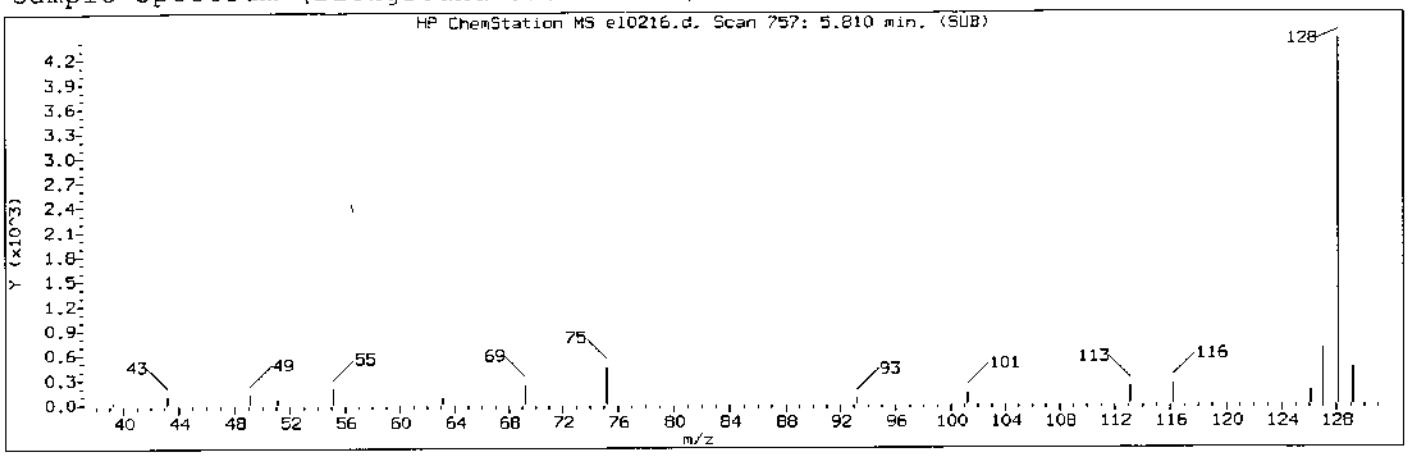
Sample Name: XXXXX Lab Sample ID: 6477566

Compound Number : 53
Compound Name : Naphthalene
Scan Number : 757
Retention Time (minutes) : 5.810
Relative Retention Time :-0.00000
Quant Ion : 128.00
Area (flag) : 3815M
On-column Amount (ng/ul) : 0.1740

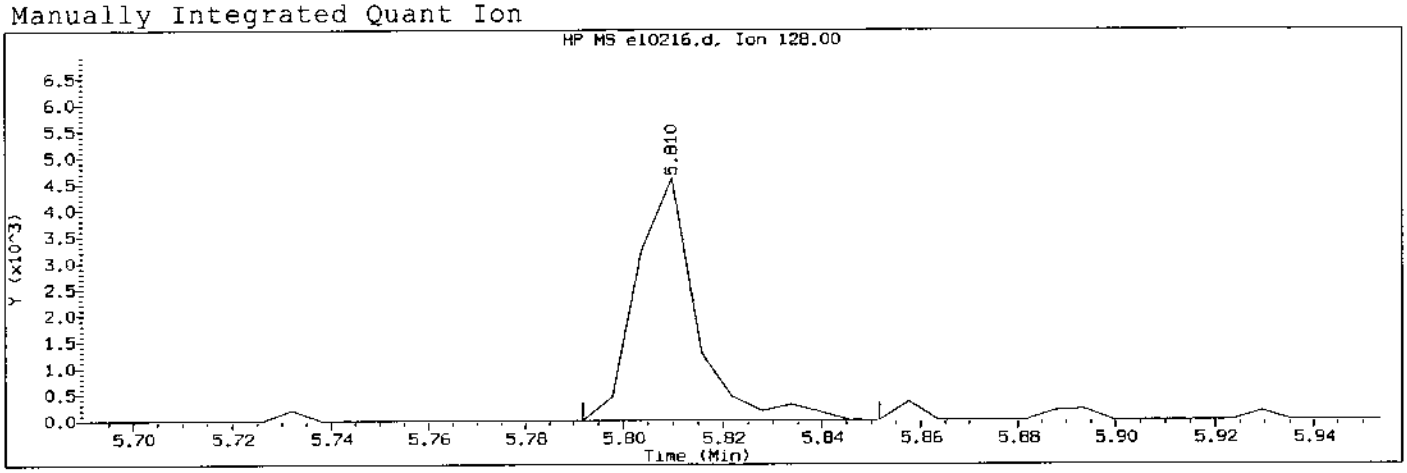
PCH09 8441

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:33.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10216.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:21 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477566

Compound Number	: 53		
Compound Name	: Naphthalene		
Scan Number	: 757		
Retention Time (minutes)	: 5.810		
Quant Ion	: 128.00		
Area (flag)	: 3815M		
On-column Amount (ng/ul)	: 0.1740		
Integration start scan	: 753	Integration stop scan:	763
Y at integration start	: 0	Y at integration end:	0

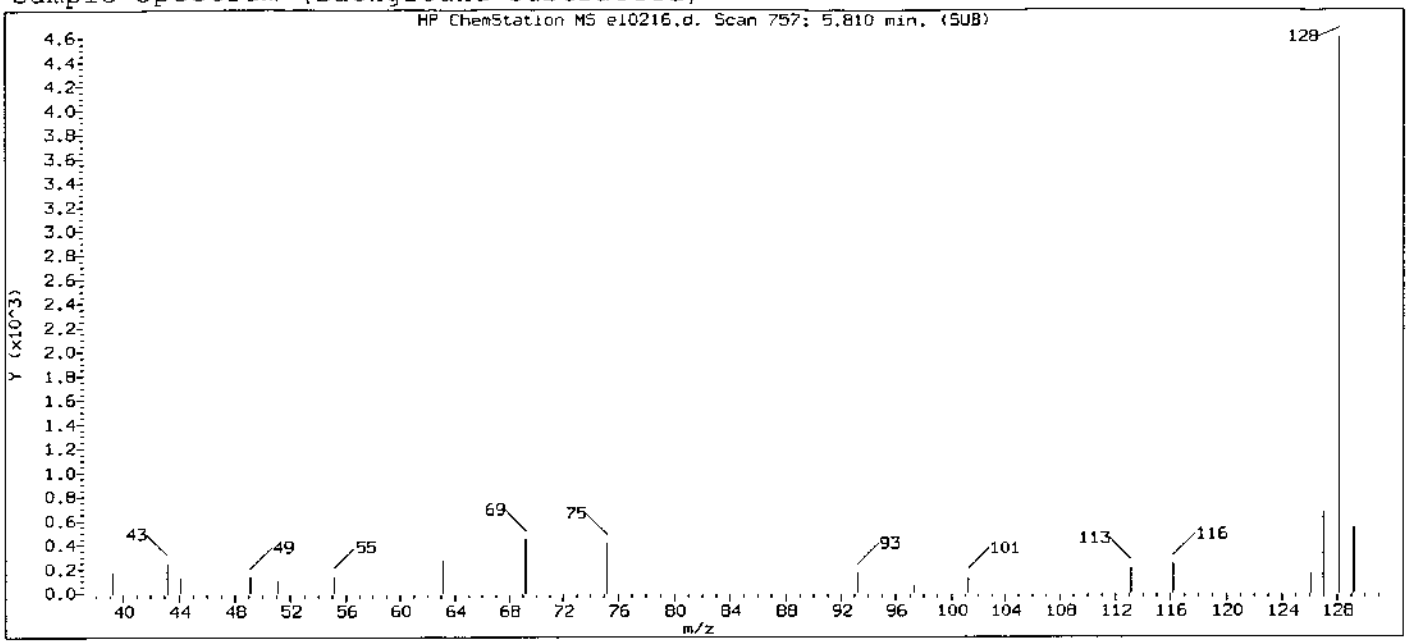
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:33.
Target 3.5 esignature user ID: jrr02820

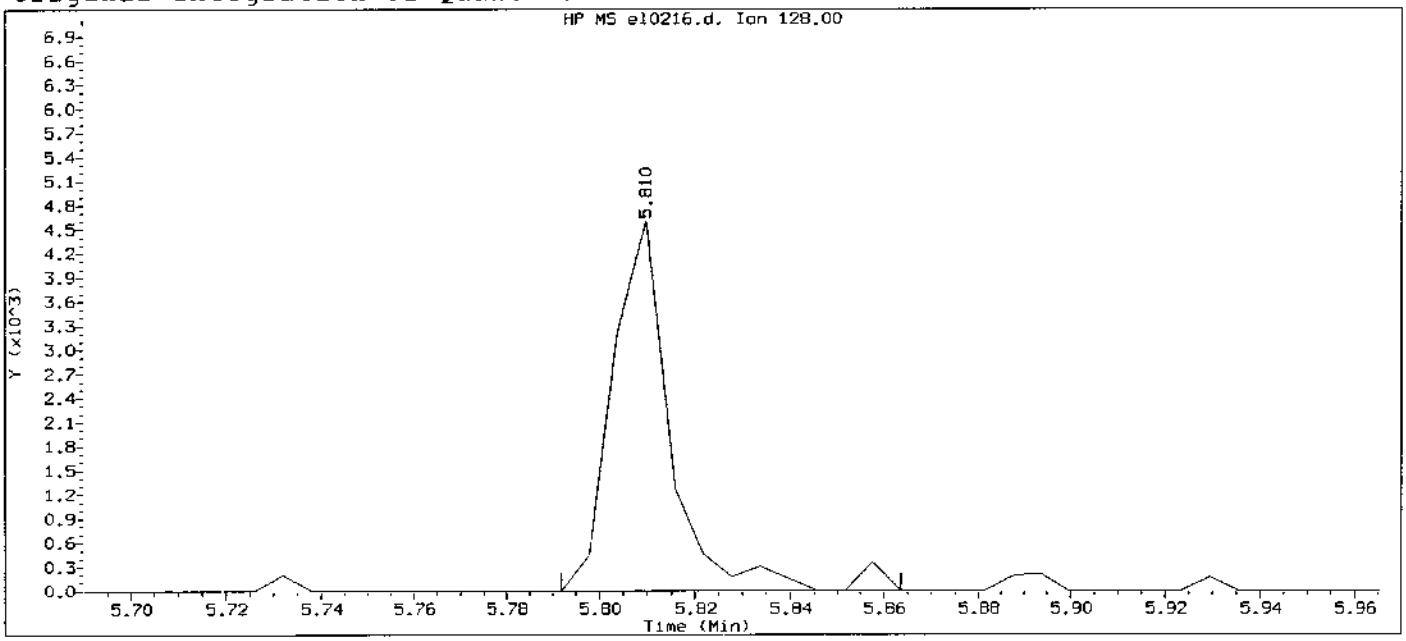
PCH09 0442

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10216.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:30 msw02109

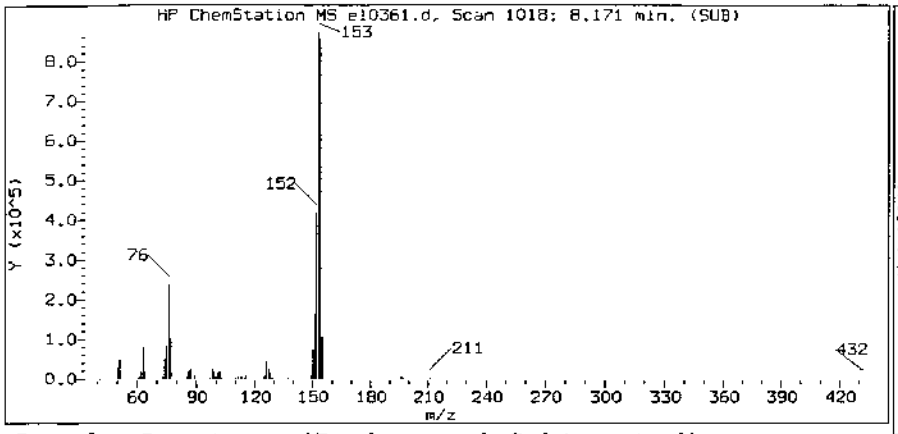
Sample Name: XXXXX Lab Sample ID: 6477566

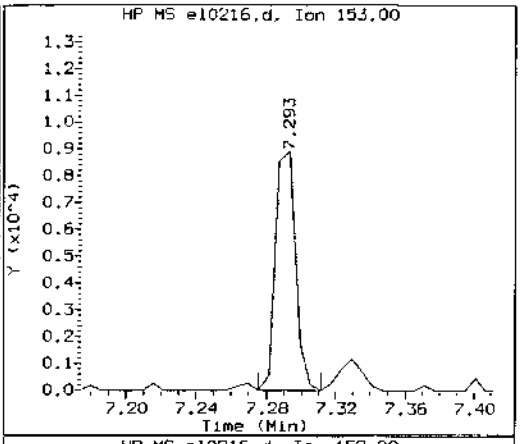
Compound Number	: 53		
Compound Name	: Naphthalene		
Scan Number	: 757		
Retention Time (minutes)	: 5.810		
Quant Ion	: 128.00		
Area	: 3942		
On-column Amount (ng/ul)	: 0.1798		
Integration start scan	: 753	Integration stop scan:	765
Y at integration start	: 0	Y at integration end:	0

PCH09 [illegible]443

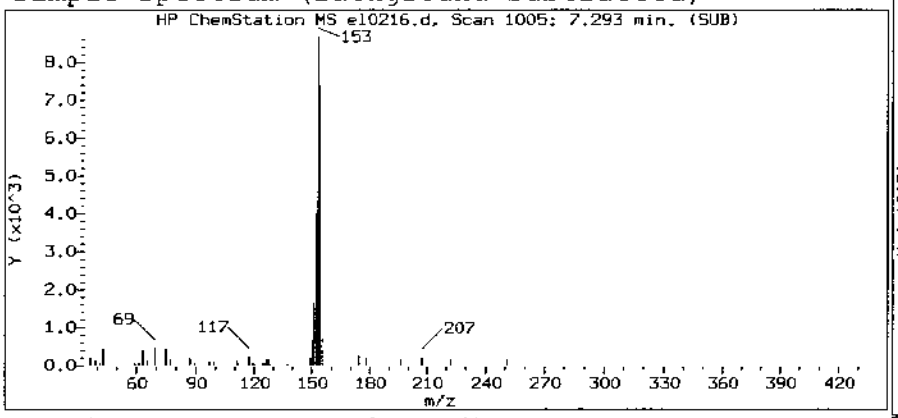
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:33.
Target 3.5 esignature user ID: jrr02820

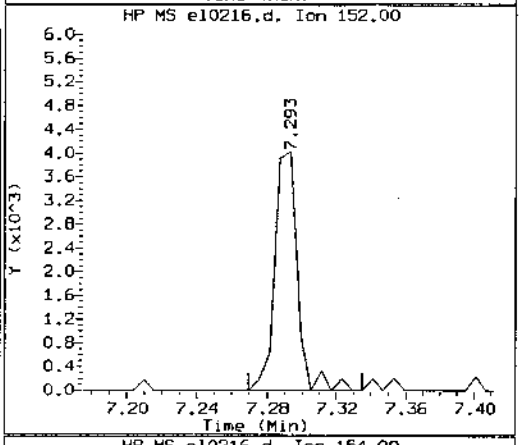
Reference Standard Spectrum for Acenaphthene



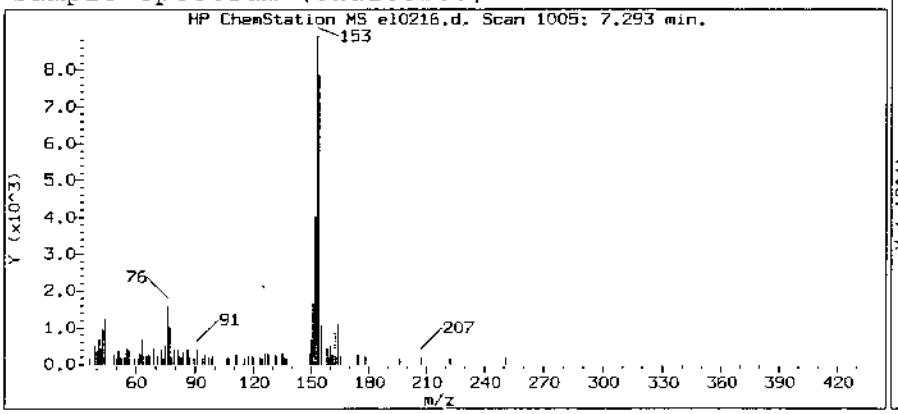


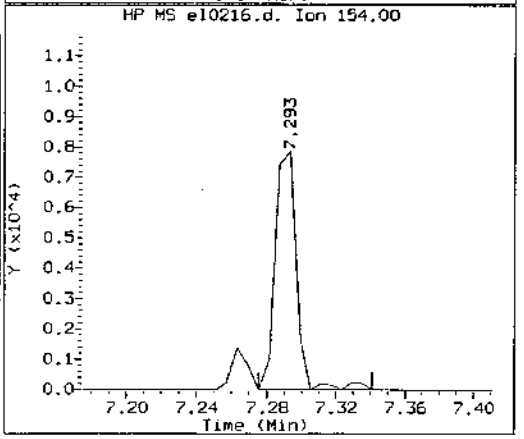
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10216.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:21 jrr02820

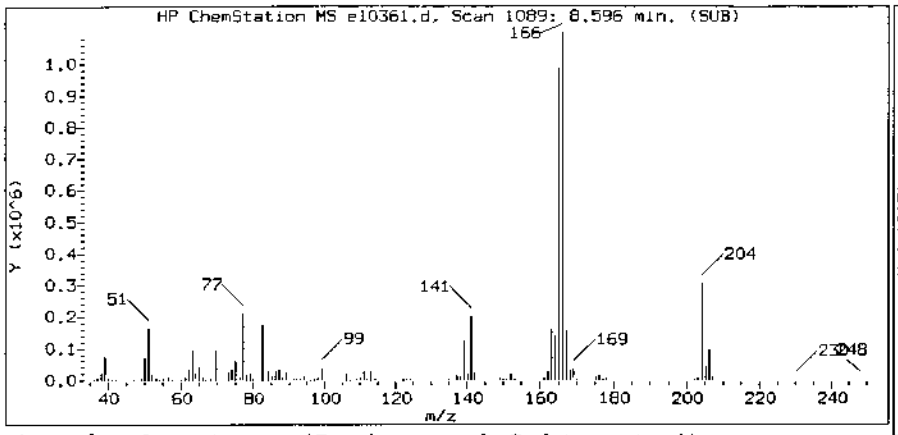
Sample Name: XXXXX Lab Sample ID: 6477566

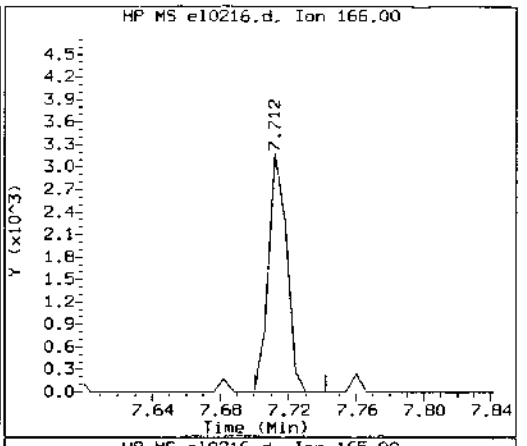
Compound Number	: 99
Compound Name	: Acenaphthene
Scan Number	: 1005
Retention Time (minutes)	: 7.293
Relative Retention Time	: 0.00000
Quant Ion	: 153.00
Area (flag)	: 7156
On-column Amount (ng/ul)	: 0.4960

PCH09 0444

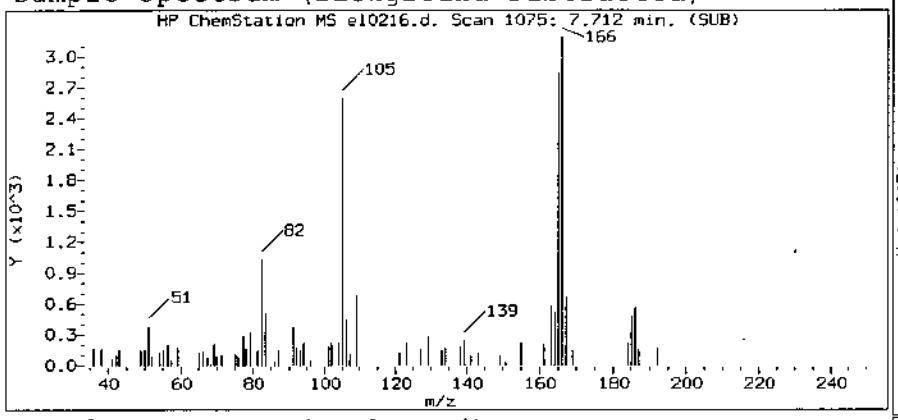
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:33.
Target 3.5 esignature user ID: jrr02820

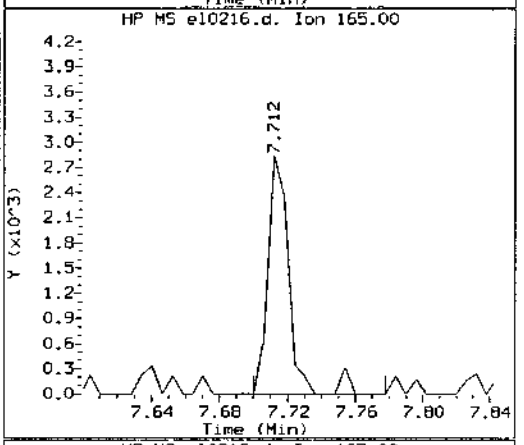
Reference Standard Spectrum for Fluorene



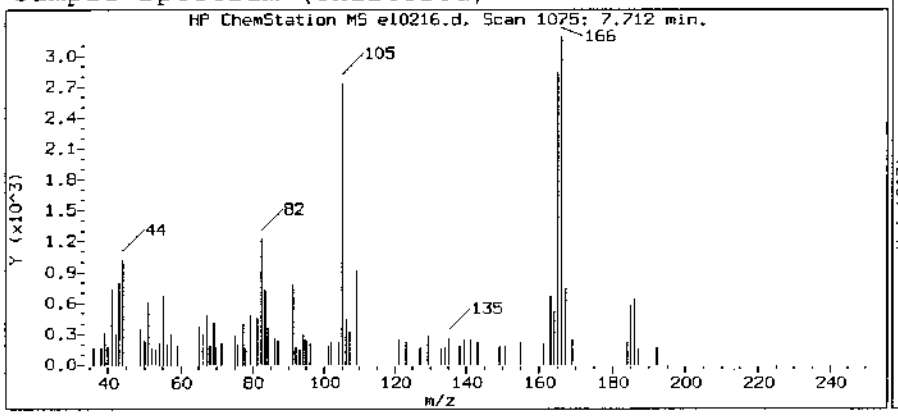


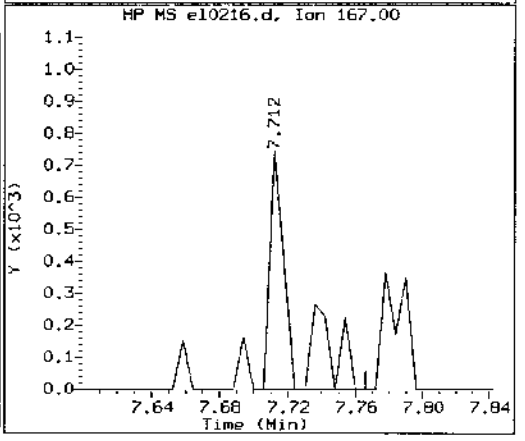
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10216.d
Injection date and time: 05-DEC-2011 14:52

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:21 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

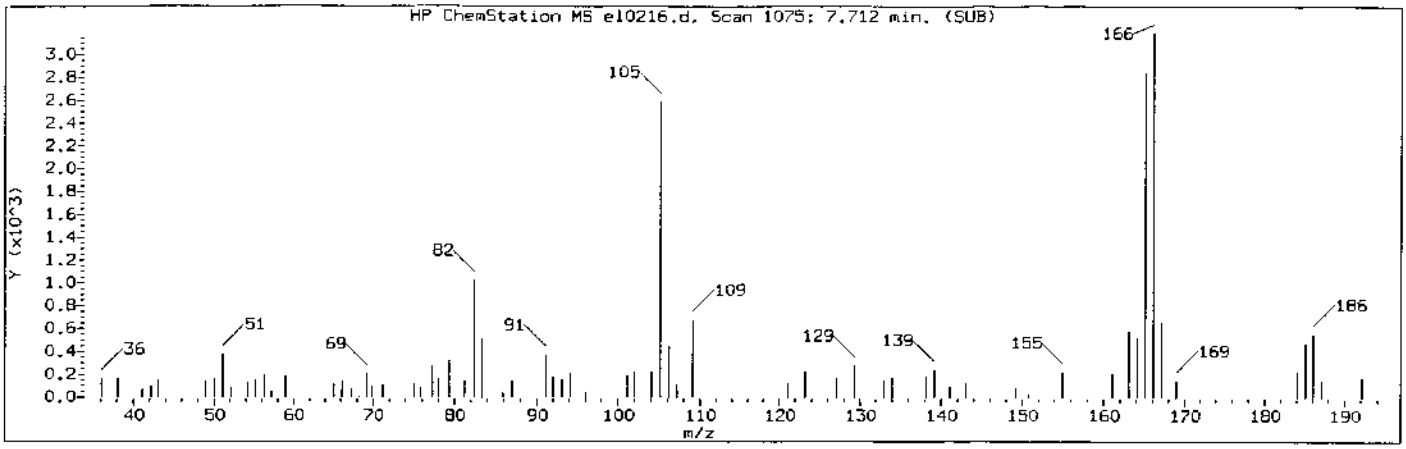
Lab Sample ID: 6477566

Compound Number	: 111
Compound Name	: Fluorene
Scan Number	: 1075
Retention Time (minutes)	: 7.712
Relative Retention Time	: 0.00082
Quant Ion	: 166.00
Area (flag)	: 2359M
On-column Amount (ng/ul)	: 0.1387

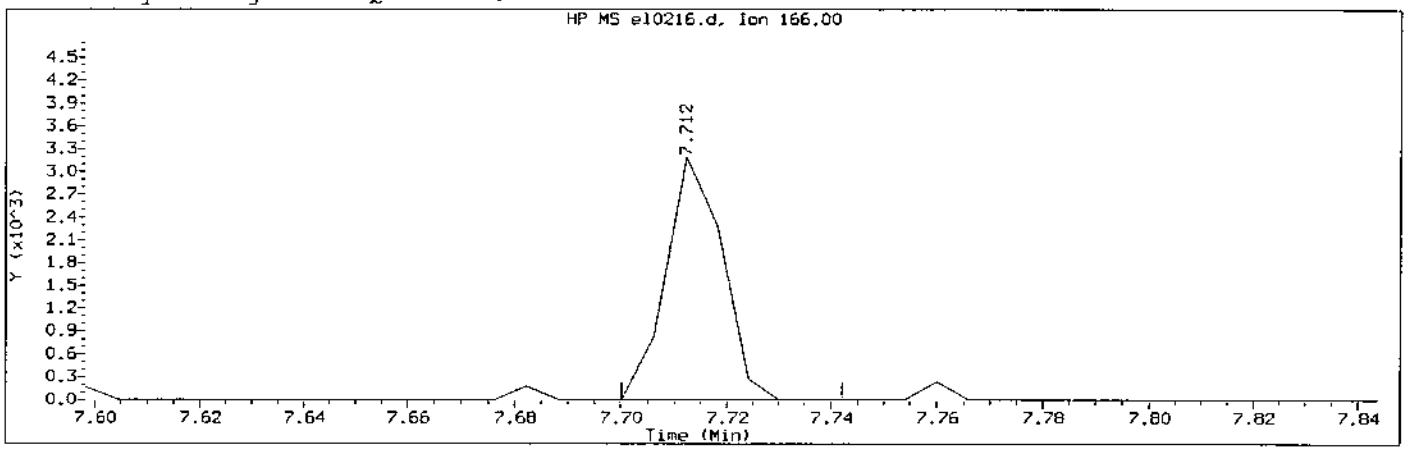
PCN89 8445

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:33.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10216.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:21 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477566

Compound Number	: 111		
Compound Name	: Fluorene		
Scan Number	: 1075		
Retention Time (minutes)	: 7.712		
Quant Ion	: 166.00		
Area (flag)	: 2359M		
On-column Amount (ng/ul)	: 0.1387		
Integration start scan	: 1072	Integration stop scan:	1079
Y at integration start	: 0	Y at integration end:	0

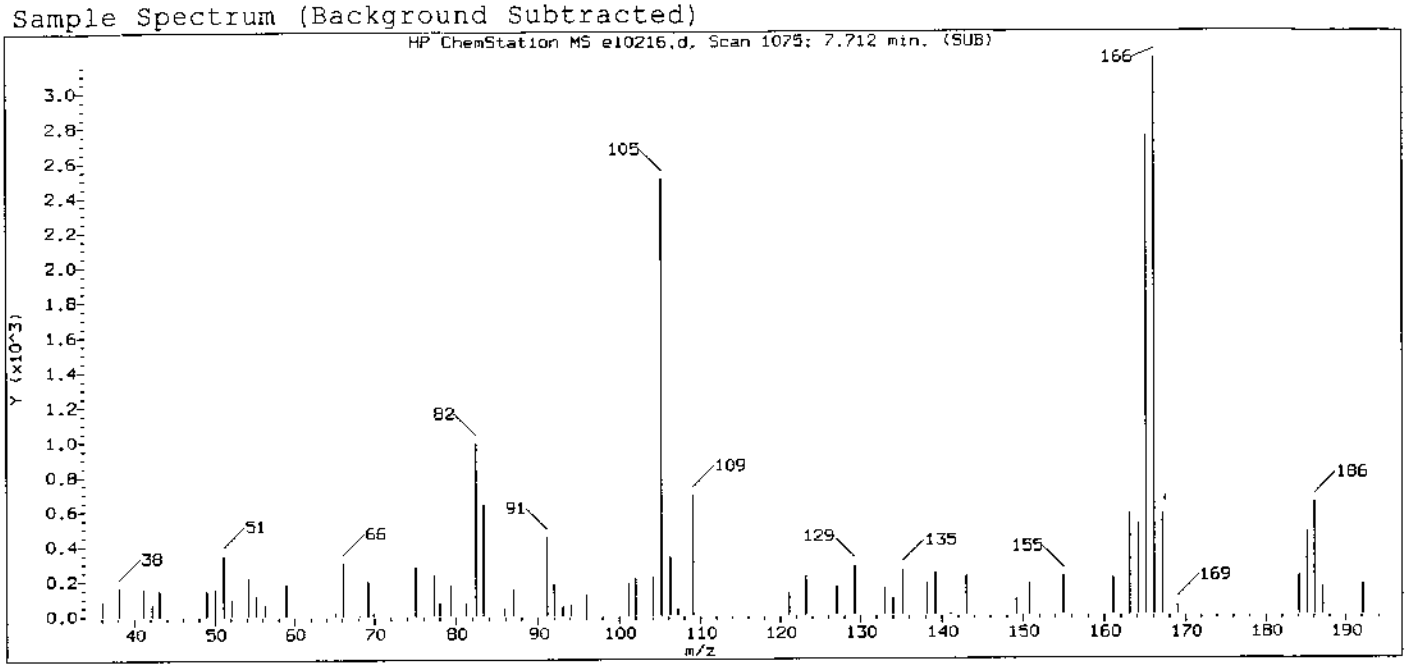
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:33.
Target 3.5 esignature user ID: jrr02820

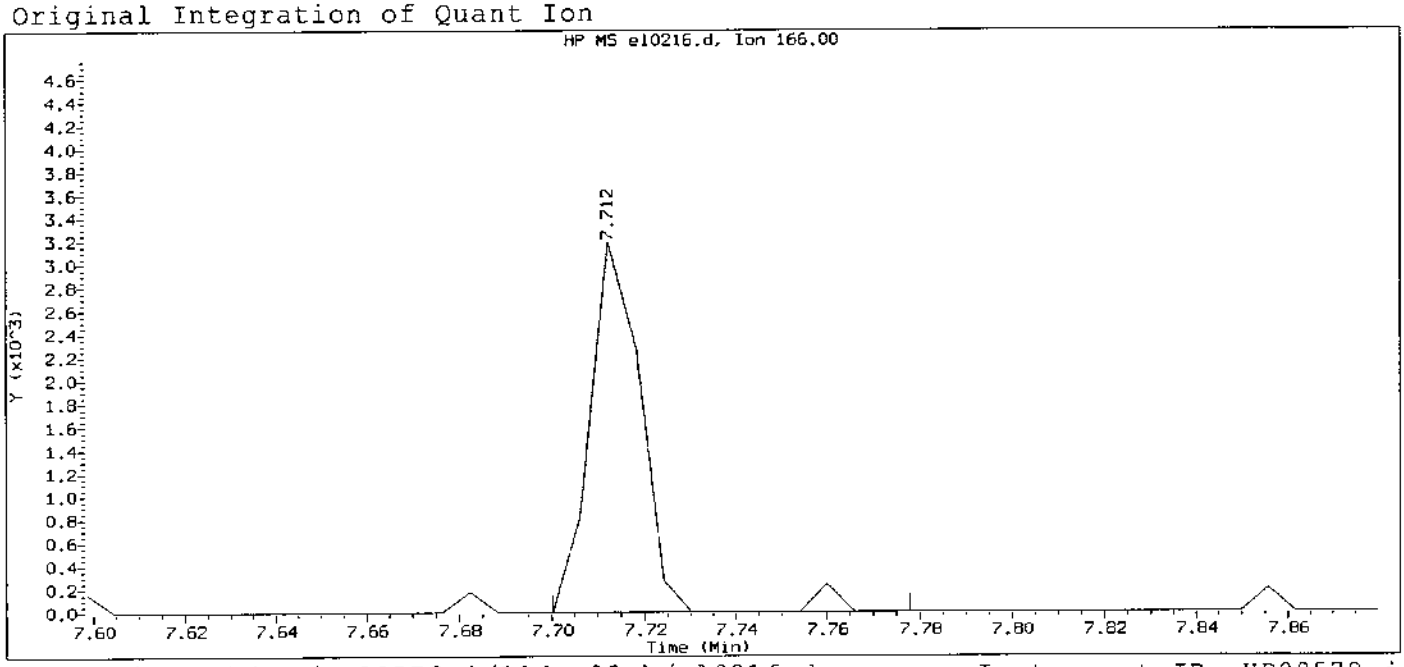
PCH09 8446

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10216.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 14:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:30 msw02109

Sample Name: XXXXX Lab Sample ID: 6477566

Compound Number	: 111		
Compound Name	: Fluorene		
Scan Number	: 1075		
Retention Time (minutes)	: 7.712		
Quant Ion	: 166.00		
Area	: 2445		
On-column Amount (ng/ul)	: 0.1438		
Integration start scan	: 1072	Integration stop scan:	1085
Y at integration start	: 0	Y at integration end:	0

PCH89 8447

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:33.
Target 3.5 esignature user ID: jrr02820

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PATFD

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477567

Sample wt/vol: 1049 (g/mL)ML Lab File ID: el0217.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ	UG/L	Q
91-20-3	Naphthalene		0.5	U
208-96-8	Acenaphthylene		0.9	
83-32-9	Acenaphthene		1	
86-73-7	Fluorene		0.1	J
85-01-8	Phenanthrene		0.5	U
120-12-7	Anthracene		0.3	J
206-44-0	Fluoranthene		3	
129-00-0	Pyrene		3	
56-55-3	Benzo(a)anthracene		0.1	J
218-01-9	Chrysene		0.1	J
205-99-2	Benzo(b)fluoranthene		0.5	U
207-08-9	Benzo(k)fluoranthene		0.5	U
50-32-8	Benzo(a)pyrene		0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.5	U
53-70-3	Dibenz(a,h)anthracene		0.5	U
191-24-2	Benzo(g,h,i)perylene		0.5	U

FORM I SV-1

PCH89 8448

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477567

Data file: /chem/HP09572.i/11dec05.b/el0217.d
Data file Sample Info. Line: XXXXX;6477567;
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Injection date and time: **05-DEC-2011 15:16**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1049 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	4.625	(-0.006)	559	152	82675	(-18)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	365261	(-23)	20.00	
98) Acenaphthene-d10	7.263	(0.000)	1000	164	236380	(-23)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	408815	(-23)	20.00	
167) Pyrene-d10	9.614	(0.000)	1393	212	454236	(-29)	20.00	
175) Perylene-d12	11.924	(0.000)	1779	264	303862	(-32)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	681408	85.930	86%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731	(0.000)	172	1346969	94.166	94%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1295390	94.541	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)
53) Naphthalene	(2)				Not Detected					0.1
95) Acenaphthylene	(3)	7.150	(-0.000)	152	18343	0.931	0.89			0.1
99) Acenaphthene	(3)	7.293	(-0.000)	153	14889	1.117	1.06			0.1
111) Fluorene	(3)	7.724	(-0.000)	166	1695M	0.108	0.10			0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)	8.532	(-0.000)	178	8448M	0.366	0.35			0.1
147) Fluoranthene	(4)	9.447	(0.000)	202	60825	2.702	2.58			0.1
154) Pyrene	(5)	9.626	(0.000)	202	74914	3.014	2.87			0.1
166) Benzo(a)anthracene	(5)	10.601	(0.000)	228	2146	0.112	0.11			0.1
168) Chrysene	(5)	10.625	(0.001)	228	2124M	0.107	0.10			0.1
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

M = Compound was manually integrated.

PCH89 8449

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34. Target 3.5 esignature user ID: jrr02820

XXXXX Lancaster Labs
Analysis Summary for GC/MS Semivolatiles 6477567

Data file: /chem/HP09572.i/11dec05.b/e10217.d
Data file Sample Info. Line: XXXXX;6477567;
Injection date and time: **05-DEC-2011 15:16**
Instrument ID: **HP09572.i** Batch: **11325WAK**
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Blank Data file reference: **/chem/HP09572.i/11dec05.b/e10202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/e10201.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): 1049 ml Volume Injected (Vi): 1 ul

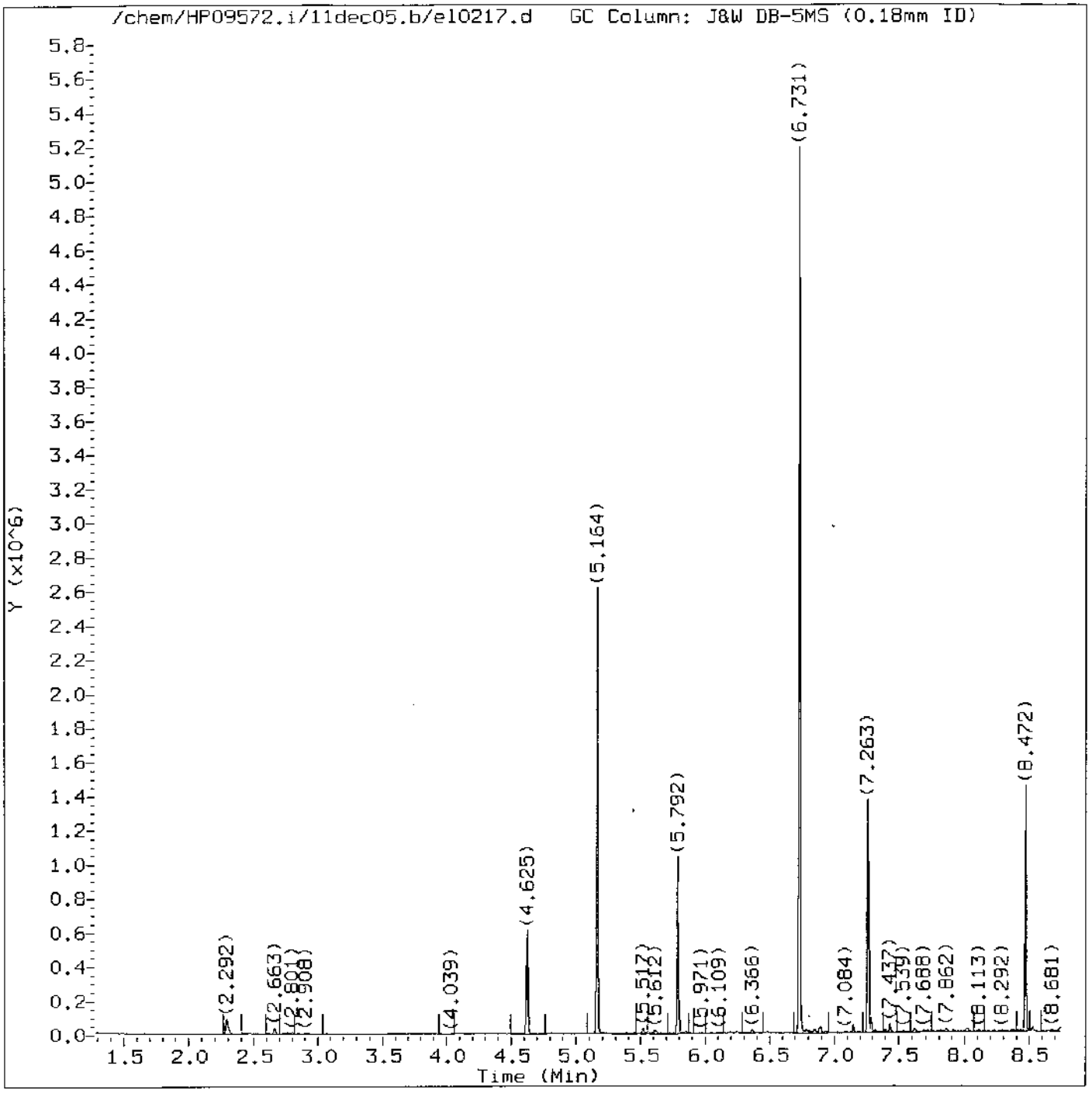
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WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 16

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34. Target 3.5 esignature user ID: jrr02820

PCH07 8458

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

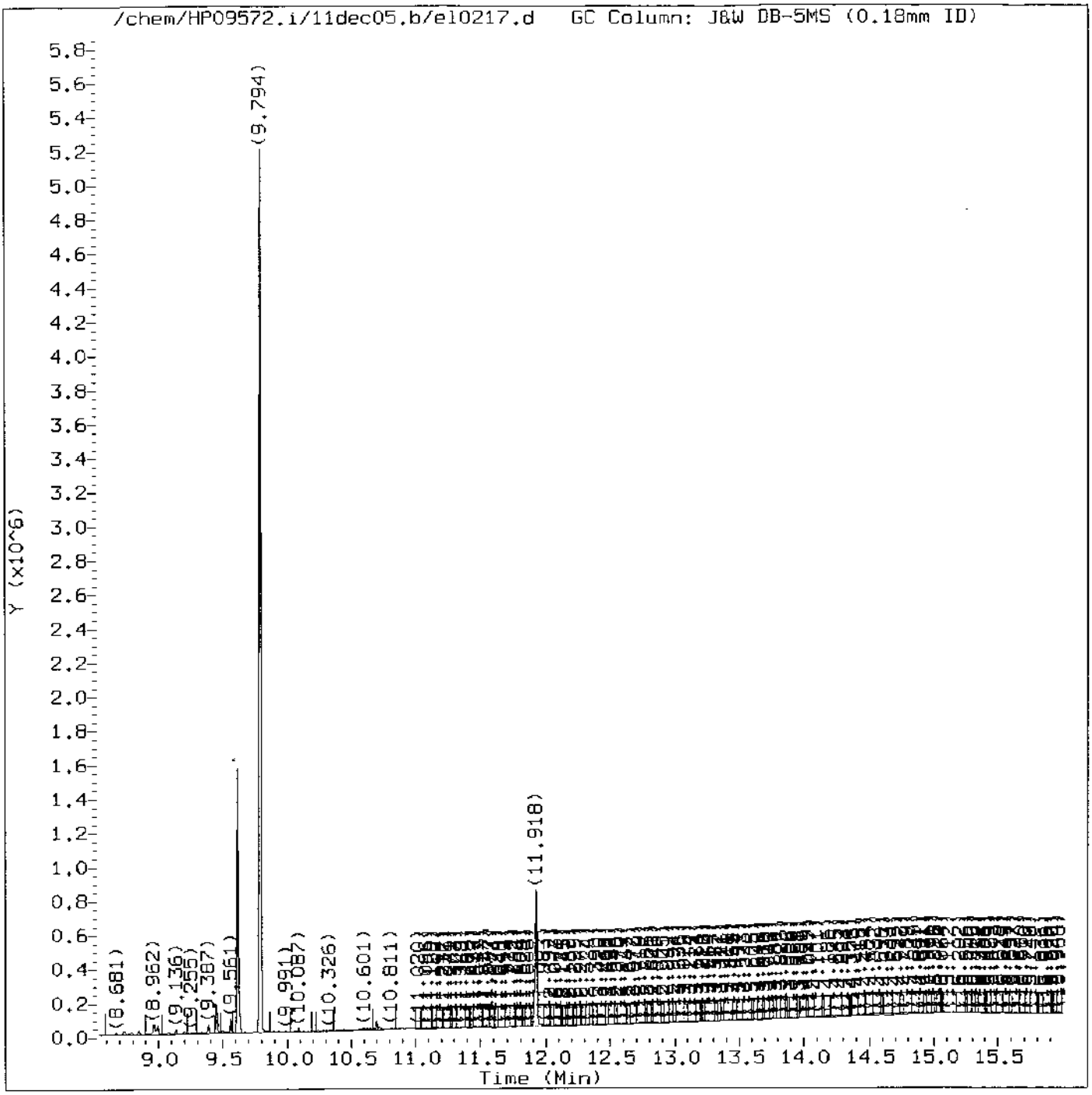
Data File: /chem/HP09572.i/11dec05.b/el0217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477567

PCH09 8451

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477567

PCH09 0452

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477567

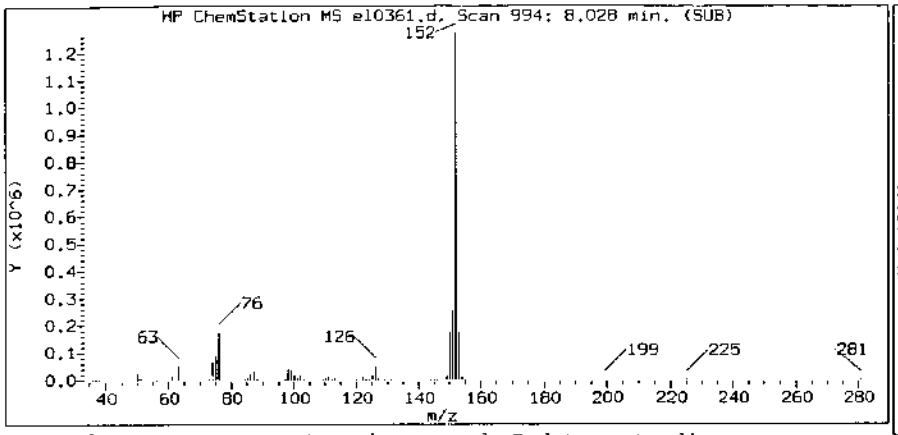
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	82675	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	681408	85.930
52)*Naphthalene-d8	(2)	5.792	136	365261	20.000
78)$2-Fluorobiphenyl	(3)	6.731	172	1346969	94.166
95) Acenaphthylene	(3)	7.150	152	18343	0.931
98)*Acenaphthene-d10	(3)	7.263	164	236380	20.000
99) Acenaphthene	(3)	7.293	153	14889	1.117
111) Fluorene	(3)	7.724	166	1695M	0.108
135)*Phenanthrene-d10	(4)	8.472	188	408815	20.000
138) Anthracene	(4)	8.532	178	8448M	0.366
147) Fluoranthene	(4)	9.447	202	60825	2.702
167)*Pyrene-d10	(5)	9.614	212	454236	20.000
154) Pyrene	(5)	9.626	202	74914	3.014
156)$Terphenyl-d14	(5)	9.794	244	1295390	94.541
166) Benzo(a)anthracene	(5)	10.601	228	2146	0.112
168) Chrysene	(5)	10.625	228	2124M	0.107
175)*Perylene-d12	(6)	11.924	264	303862	20.000

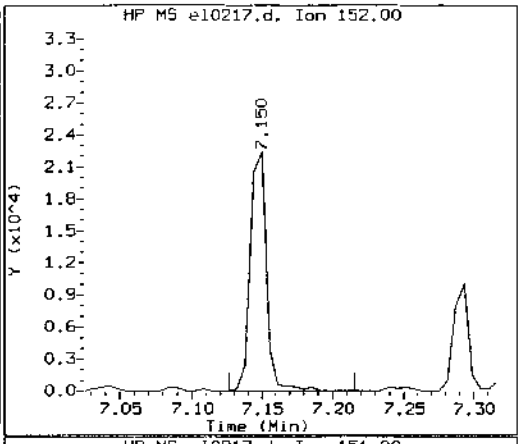
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PCN09 0453

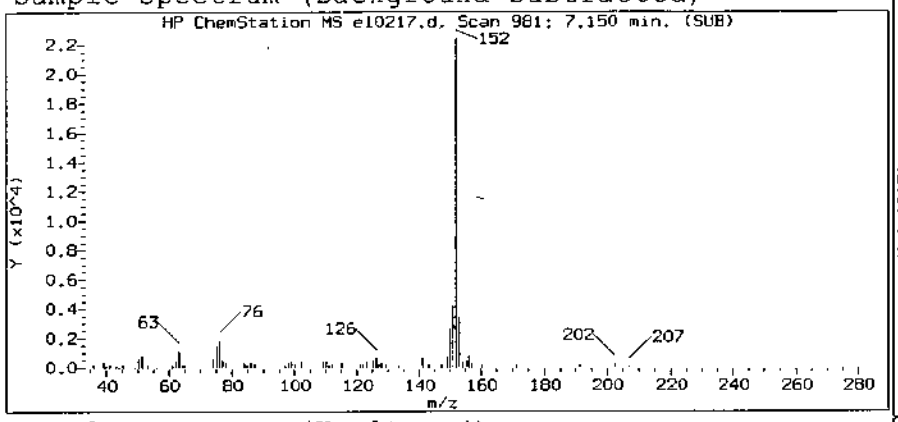
Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

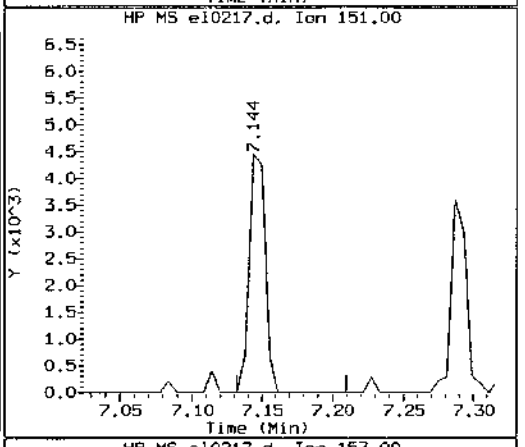
Reference Standard Spectrum for Acenaphthylene



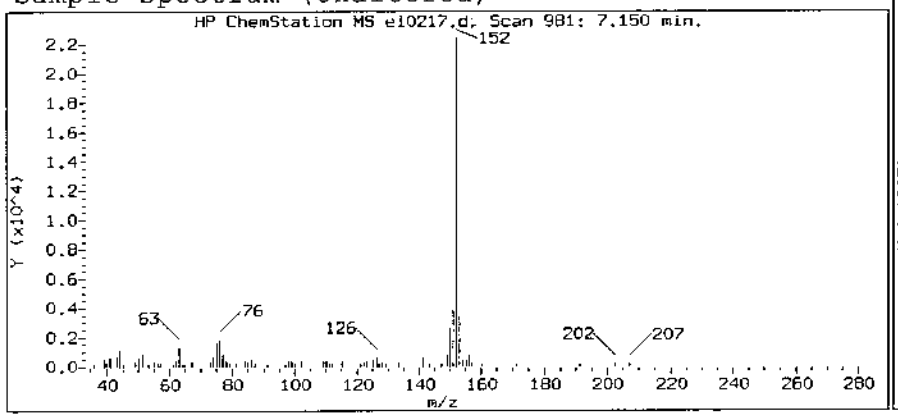


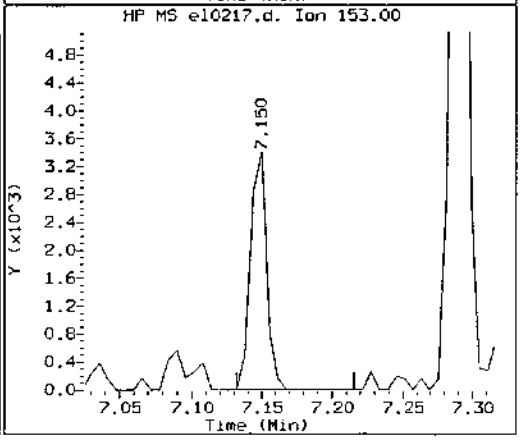
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10217.d
Injection date and time: 05-DEC-2011 15:16

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

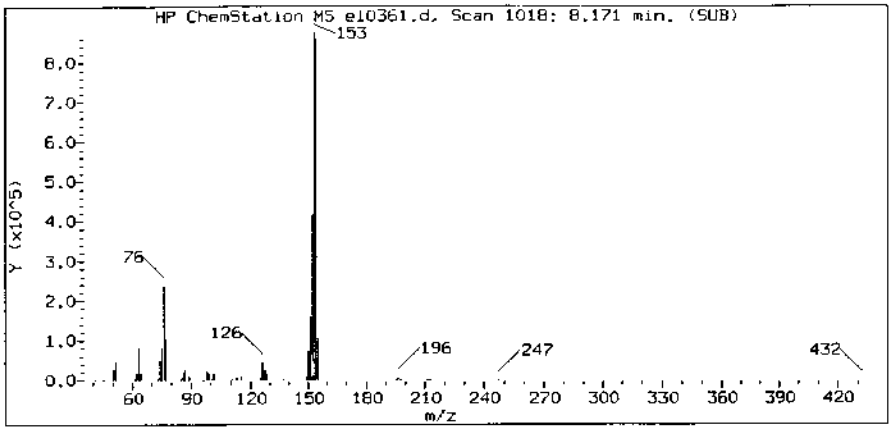
Lab Sample ID: 6477567

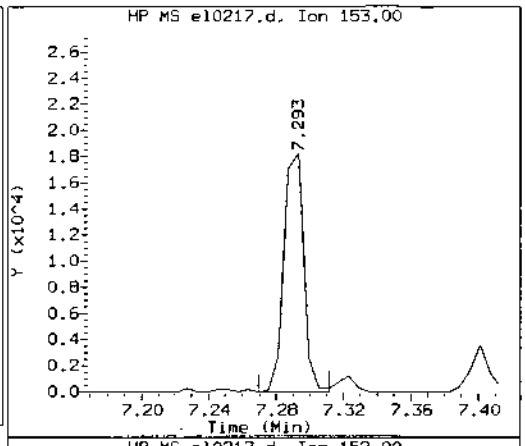
Compound Number : 95
Compound Name : Acenaphthylene
Scan Number : 981
Retention Time (minutes) : 7.150
Relative Retention Time :-0.00000
Quant Ion : 152.00
Area (flag) : 18343
On-column Amount (ng/ul) : 0.9308

PCH89 8454

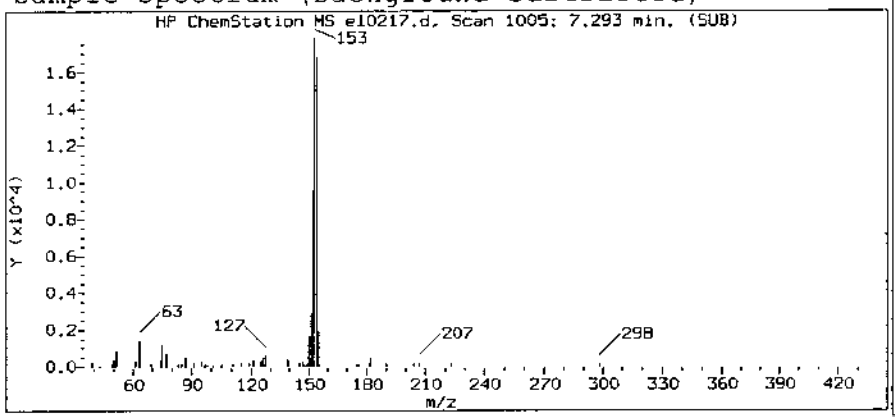
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

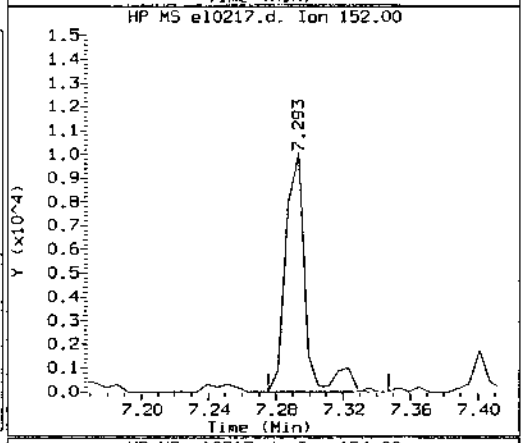
Reference Standard Spectrum for Acenaphthene



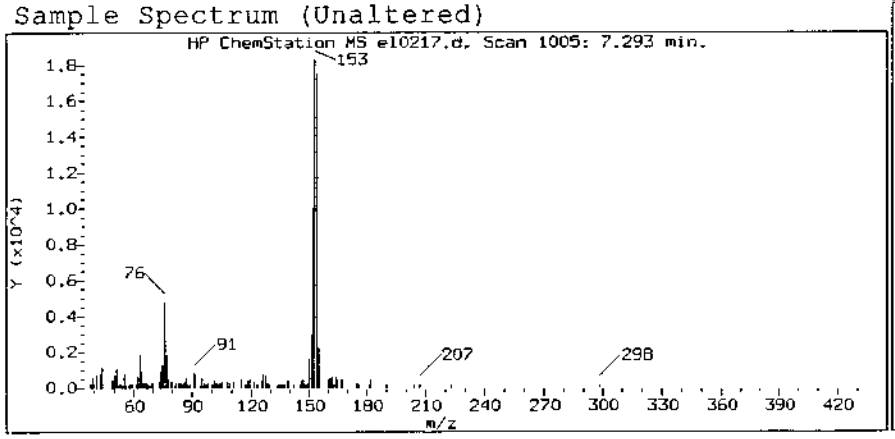


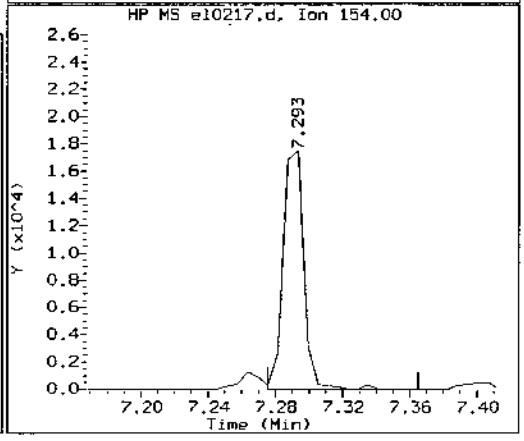
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10217.d
Injection date and time: 05-DEC-2011 15:16

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

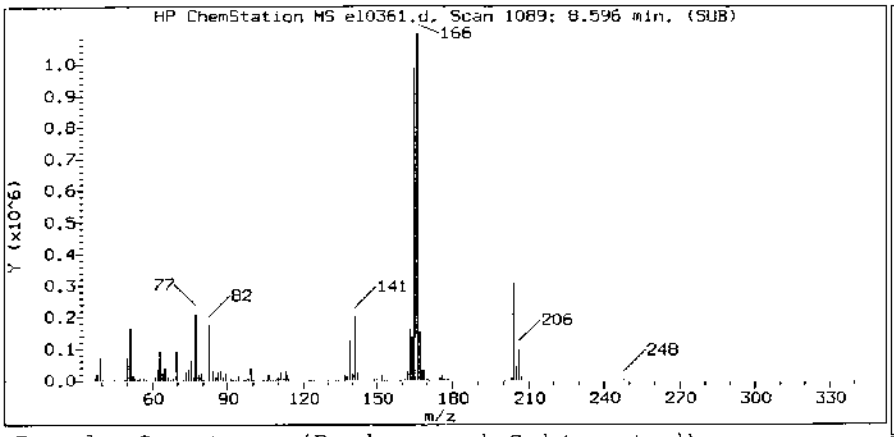
Lab Sample ID: 6477567

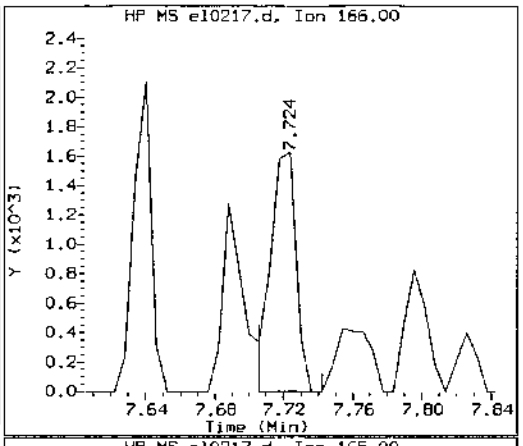
Compound Number	: 99
Compound Name	: Acenaphthene
Scan Number	: 1005
Retention Time (minutes)	: 7.293
Relative Retention Time	:-0.00000
Quant Ion	: 153.00
Area (flag)	: 14889
On-column Amount (ng/ul)	: 1.1167

PCH89 8455

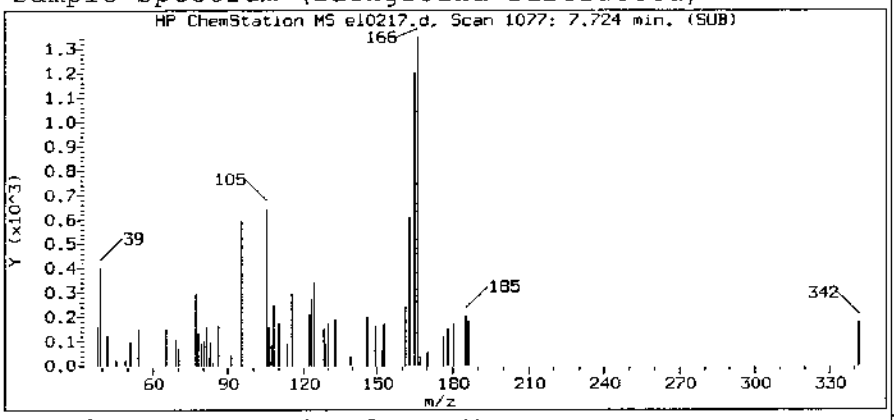
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

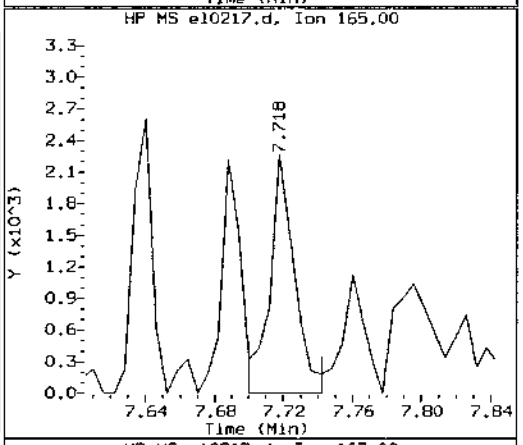
Reference Standard Spectrum for Fluorene



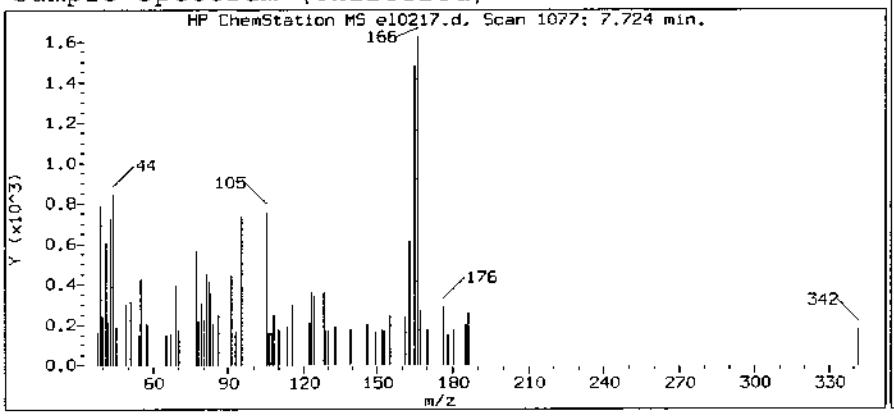


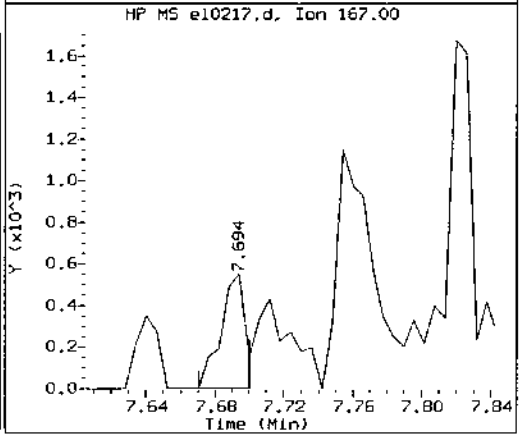
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10217.d
Injection date and time: 05-DEC-2011 15:16

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

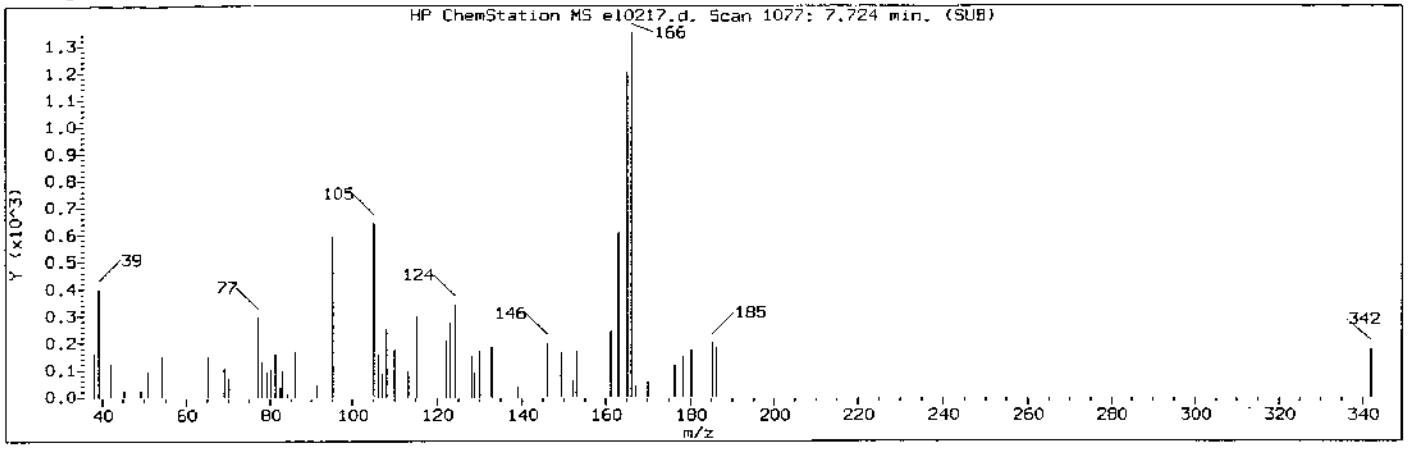
Lab Sample ID: 6477567

Compound Number	: 111
Compound Name	: Fluorene
Scan Number	: 1077
Retention Time (minutes)	: 7.724
Relative Retention Time	:-0.00083
Quant Ion	: 166.00
Area (flag)	: 1695M
On-column Amount (ng/ul)	: 0.1079

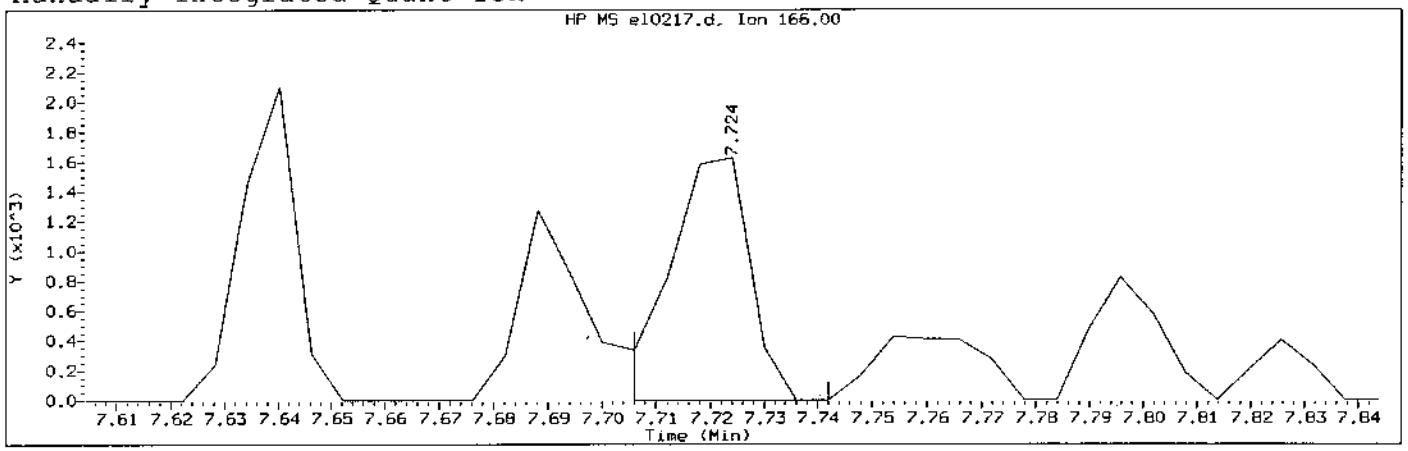
PCH89 8456

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477567

Compound Number	: 111		
Compound Name	: Fluorene		
Scan Number	: 1077		
Retention Time (minutes)	: 7.724		
Quant Ion	: 166.00		
Area (flag)	: 1695M		
On-column Amount (ng/ul)	: 0.1079		
Integration start scan	: 1073	Integration stop scan:	1079
Y at integration start	: 0	Y at integration end:	0

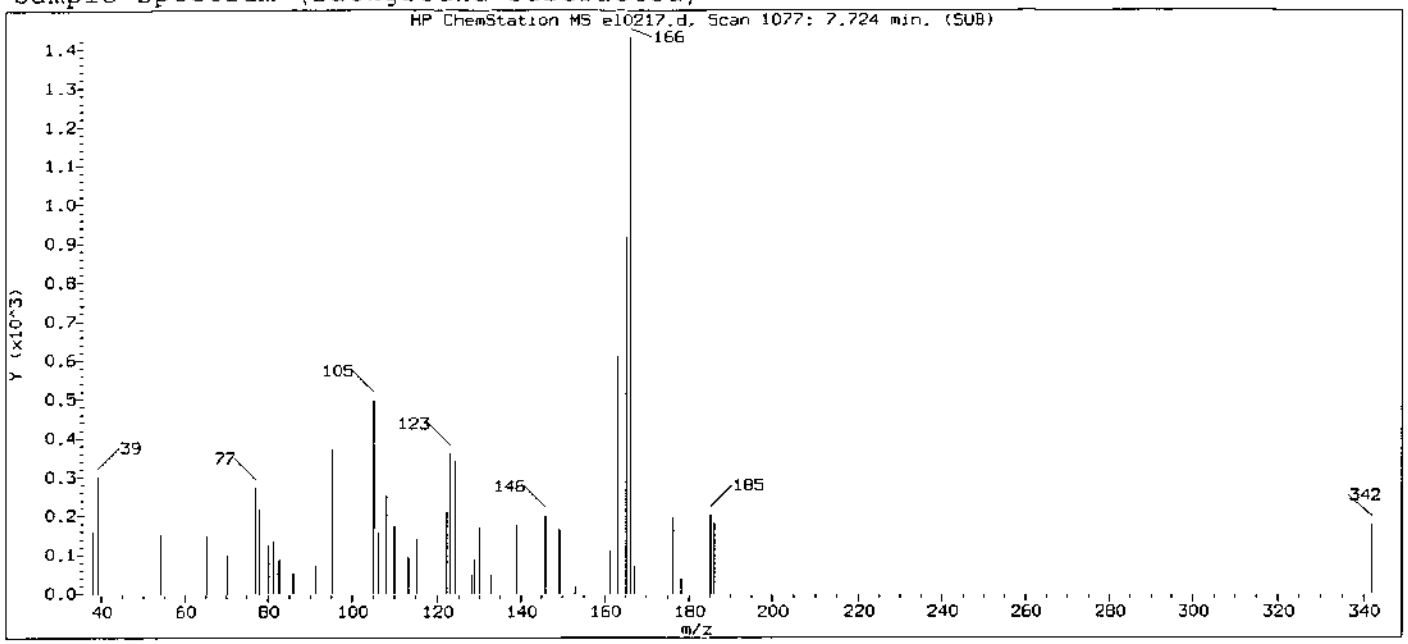
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

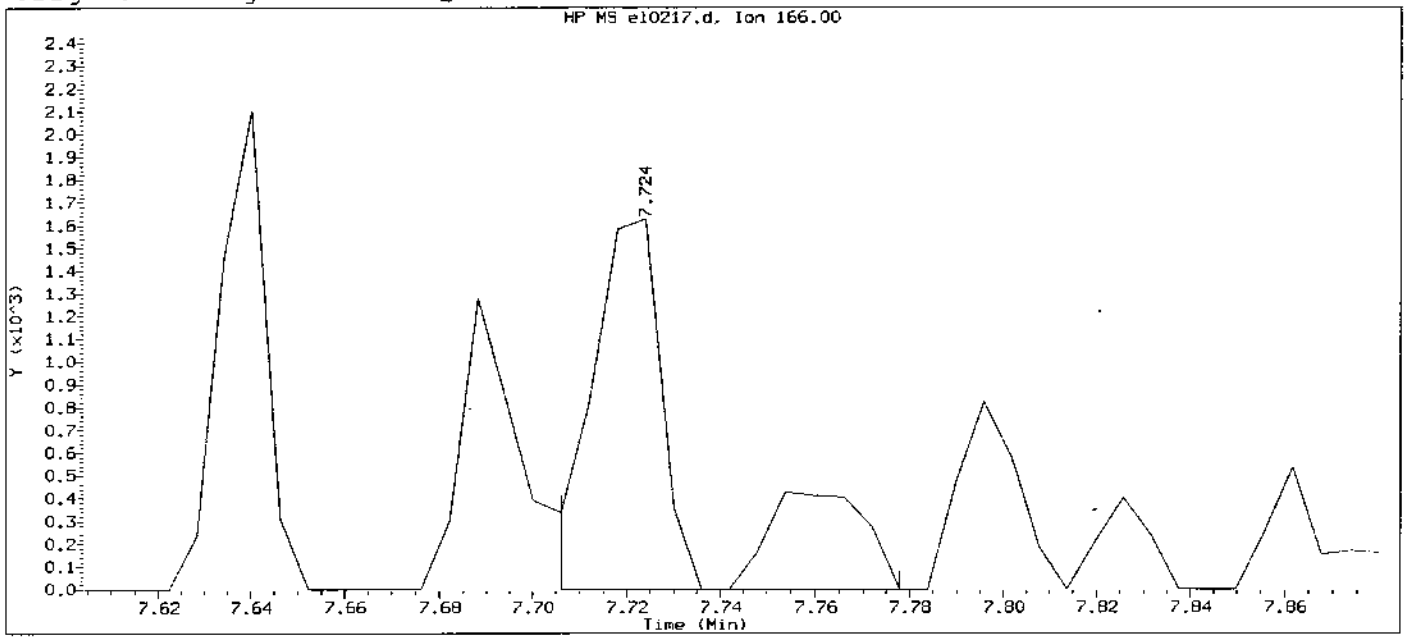
PCH09 8457

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:40 msw02109

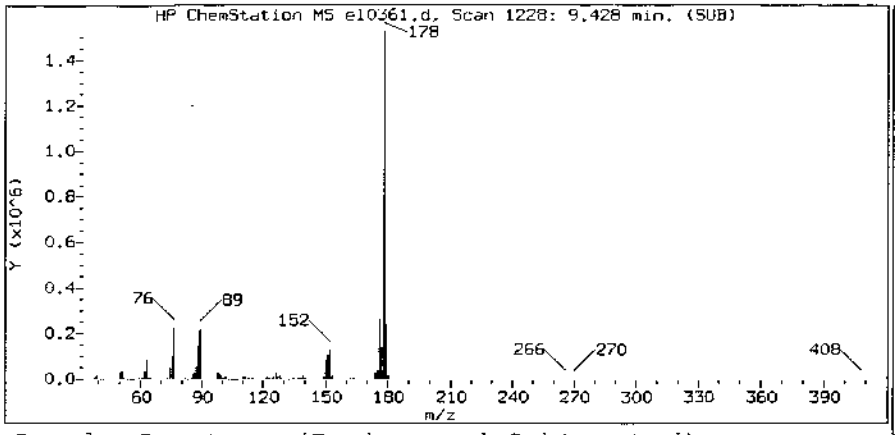
Sample Name: XXXXX Lab Sample ID: 6477567

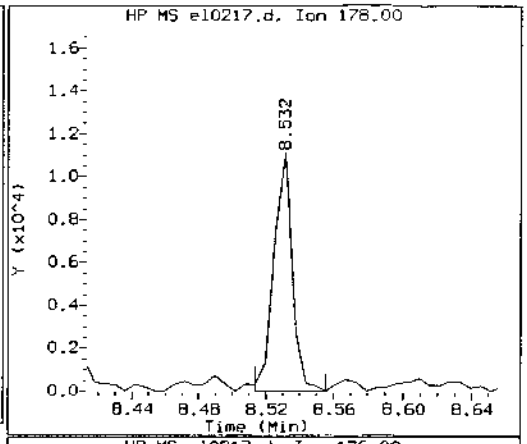
Compound Number	: 111
Compound Name	: Fluorene
Scan Number	: 1077
Retention Time (minutes)	: 7.724
Quant Ion	: 166.00
Area	: 2239
On-column Amount (ng/ul)	: 0.1425
Integration start scan	: 1073
Integration stop scan	: 1085
Y at integration start	: 0
Y at integration end	: 0

PCN09 0458

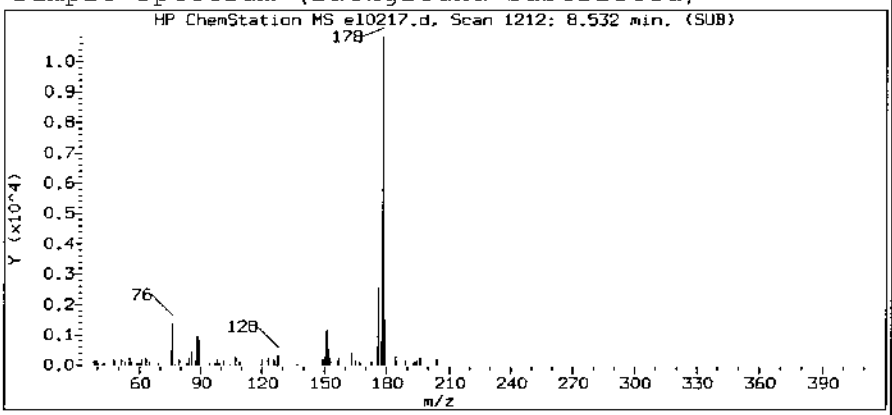
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

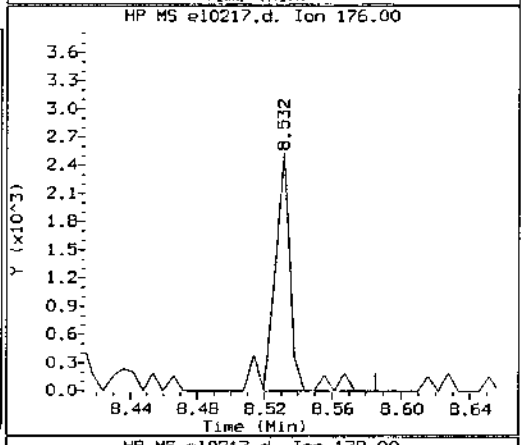
Reference Standard Spectrum for Anthracene



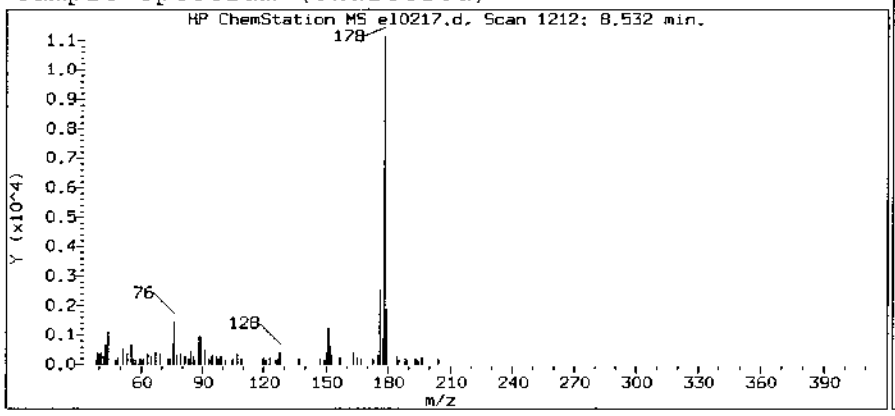


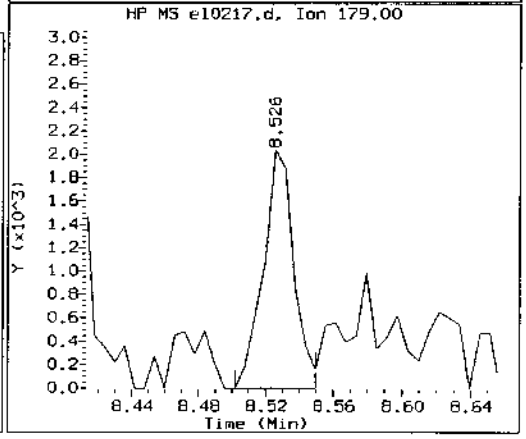
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

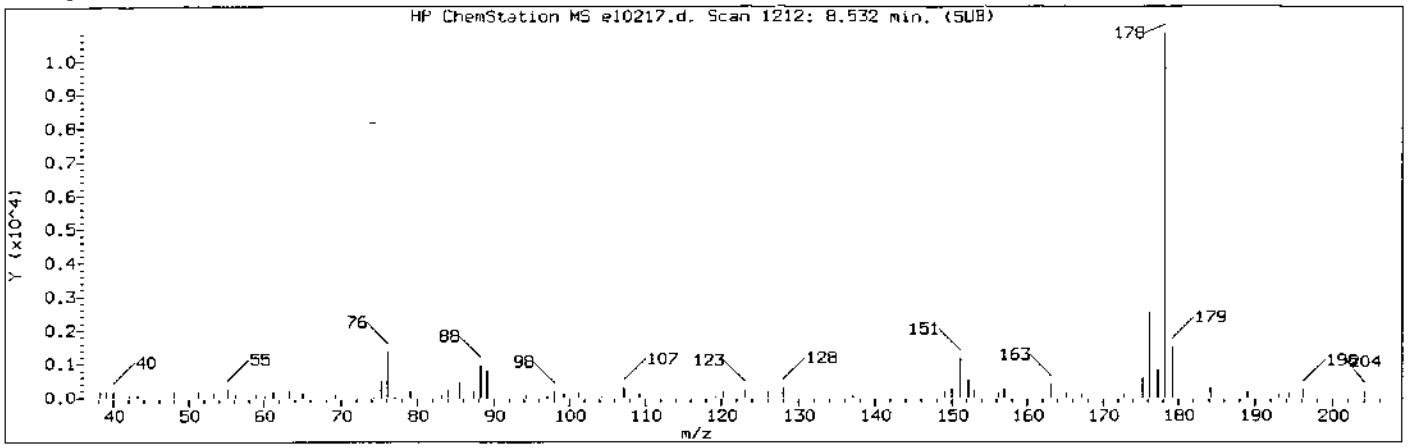
Sample Name: XXXXX Lab Sample ID: 6477567

Compound Number	: 138
Compound Name	: Anthracene
Scan Number	: 1212
Retention Time (minutes)	: 8.532
Relative Retention Time	:-0.00000
Quant Ion	: 178.00
Area (flag)	: 8448M
On-column Amount (ng/ul)	: 0.3664

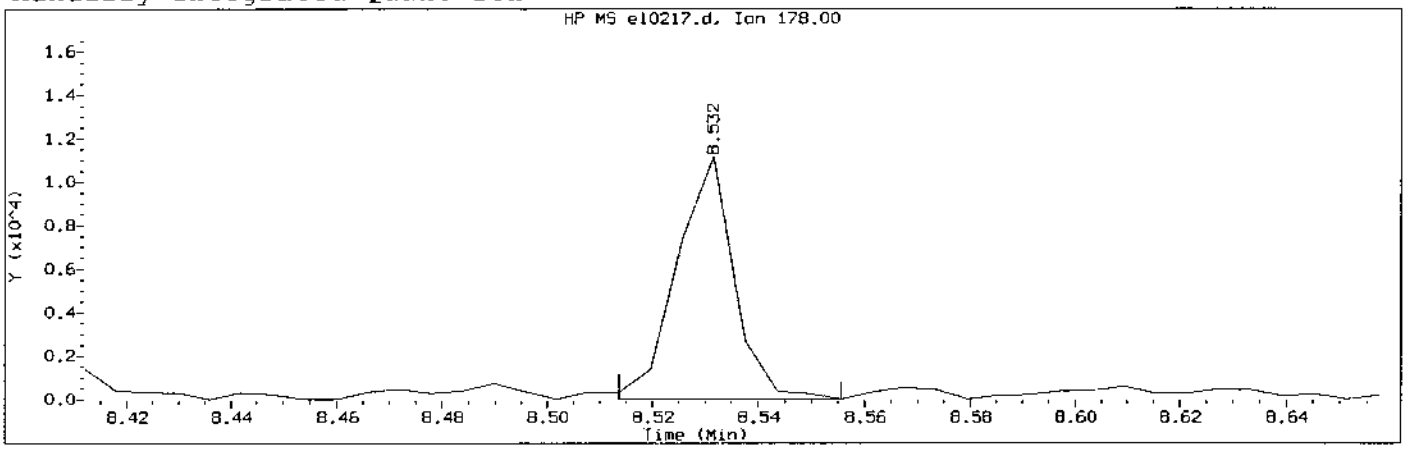
PCN89 8459

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477567

Compound Number	: 138		
Compound Name	: Anthracene		
Scan Number	: 1212		
Retention Time (minutes)	: 8.532		
Quant Ion	: 178.00		
Area (flag)	: 8448M		
On-column Amount (ng/ul)	: 0.3664		
Integration start scan	: 1208	Integration stop scan:	1215
Y at integration start	: 0	Y at integration end:	0

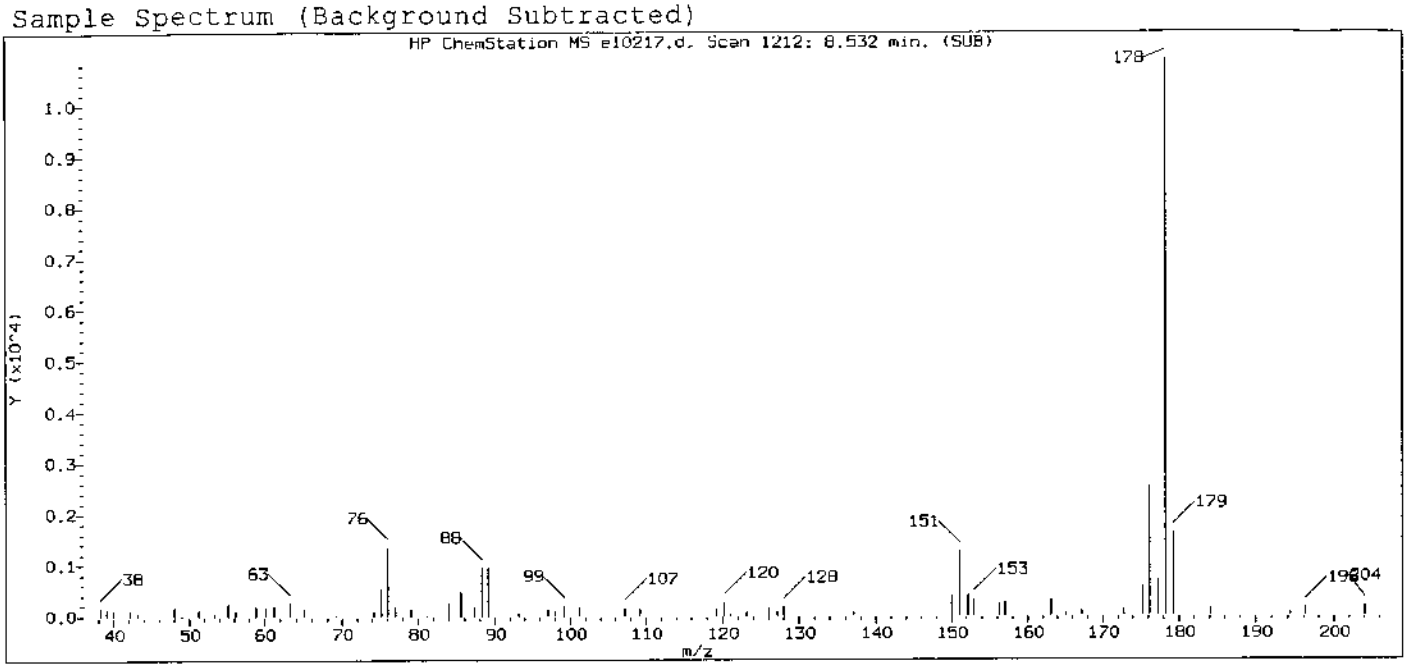
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

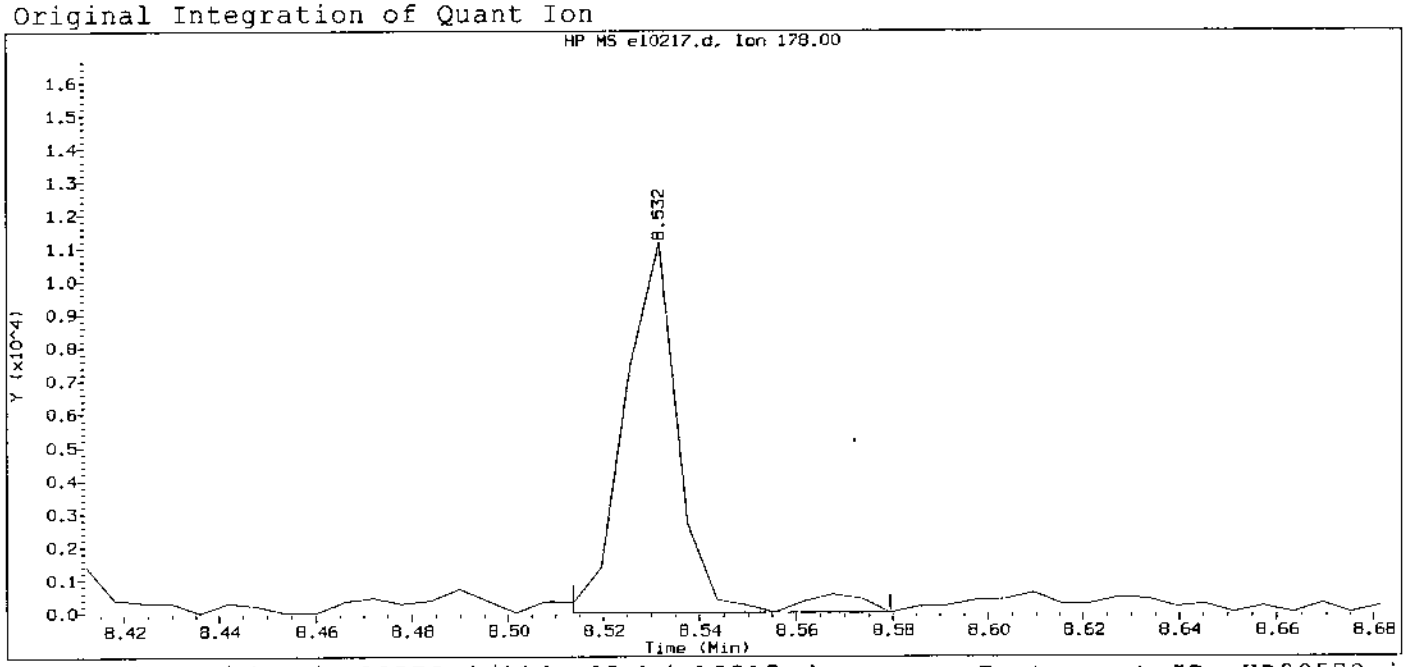
PCH09 0468

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:40 msw02109

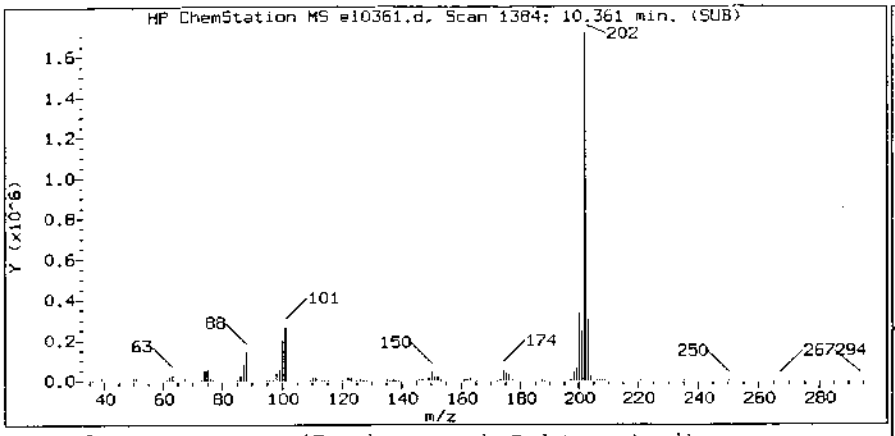
Sample Name: XXXXX Lab Sample ID: 6477567

Compound Number : 138
Compound Name : Anthracene
Scan Number : 1212
Retention Time (minutes) : 8.532
Quant Ion : 178.00
Area : 8853
On-column Amount (ng/ul) : 0.3840
Integration start scan : 1208 Integration stop scan: 1219
Y at integration start : 0 Y at integration end: 0

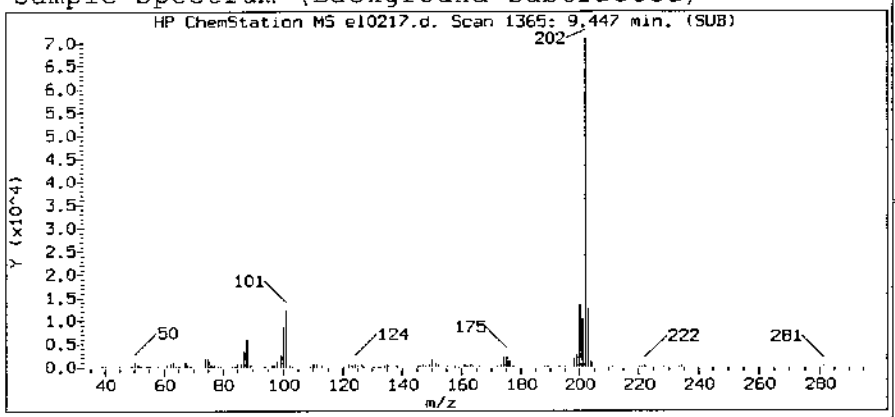
PCH89 8461

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

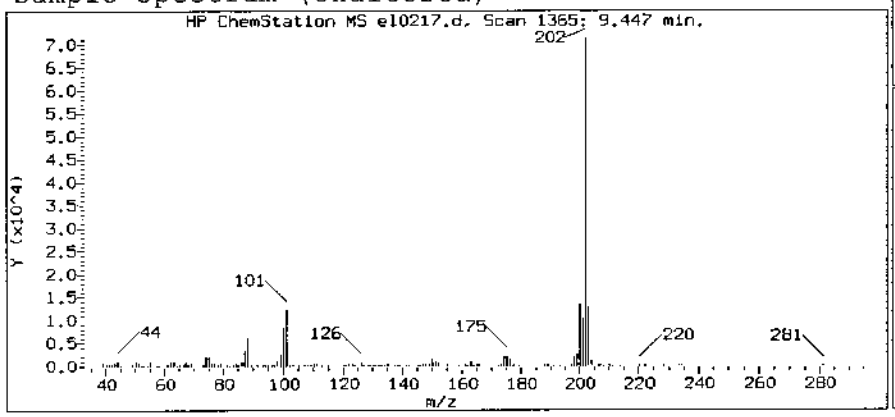
Reference Standard Spectrum for Fluoranthene

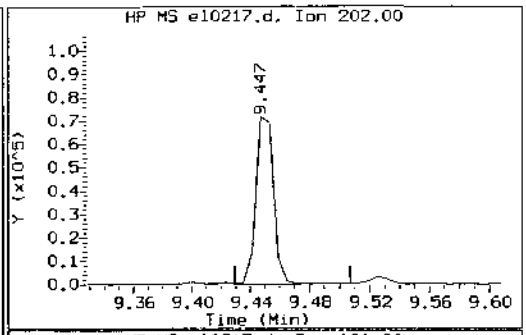


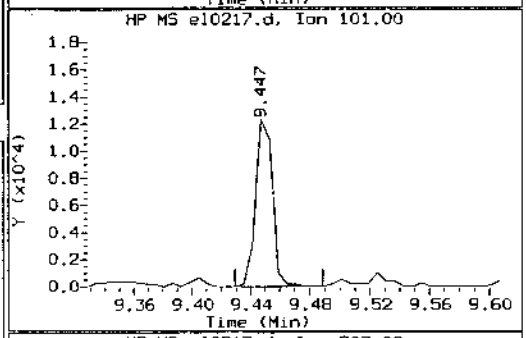
Sample Spectrum (Background Subtracted)

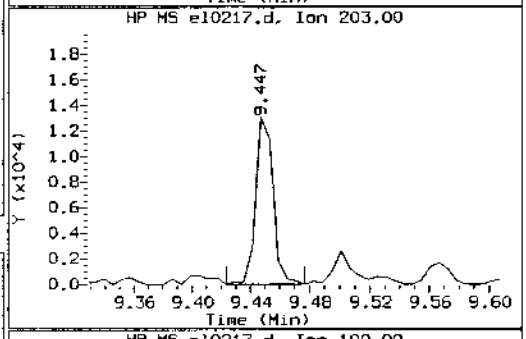


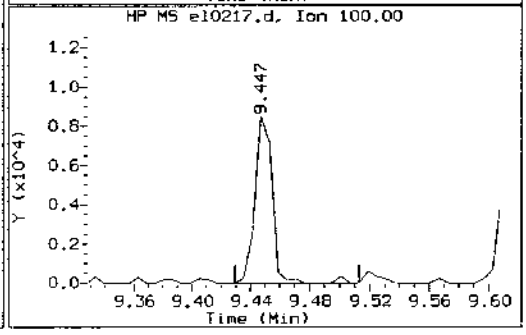
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11dec05.b/e10217.d
Injection date and time: 05-DEC-2011 15:16

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

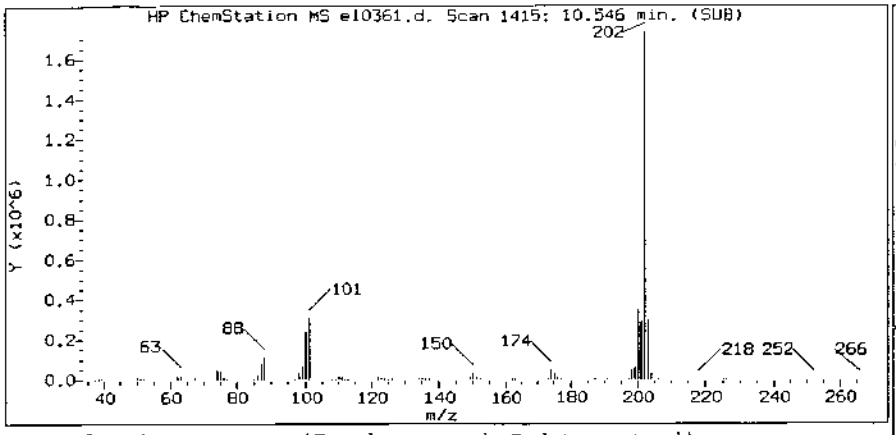
Lab Sample ID: 6477567

Compound Number	: 147
Compound Name	: Fluoranthene
Scan Number	: 1365
Retention Time (minutes)	: 9.447
Relative Retention Time	: 0.00070
Quant Ion	: 202.00
Area (flag)	: 60825
On-column Amount (ng/ul)	: 2.7020

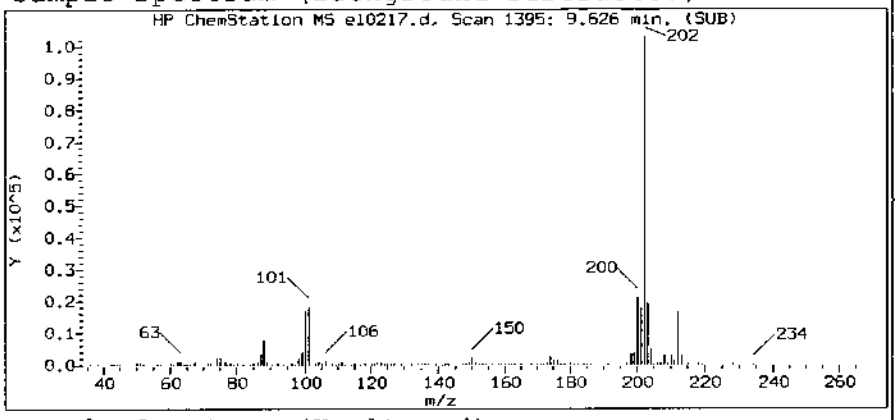
PCH09 8462

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

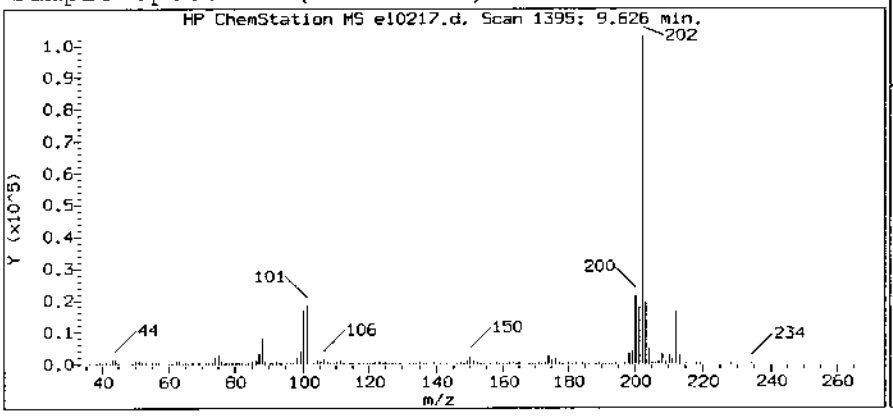
Reference Standard Spectrum for Pyrene

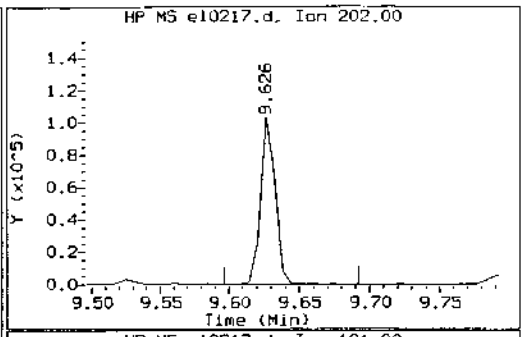


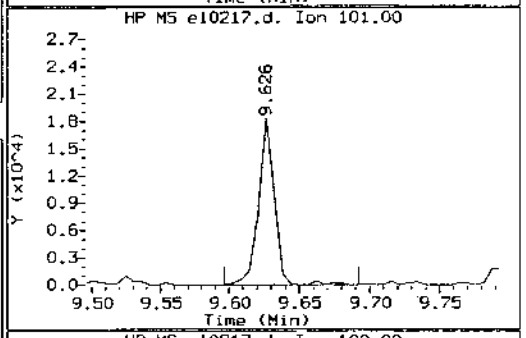
Sample Spectrum (Background Subtracted)

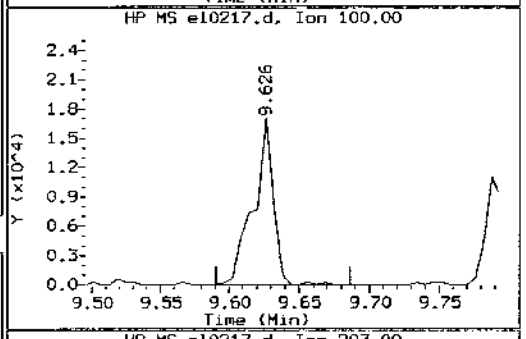


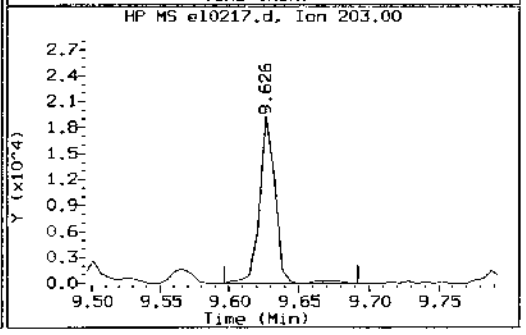
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11dec05.b/e10217.d
Injection date and time: 05-DEC-2011 15:16

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

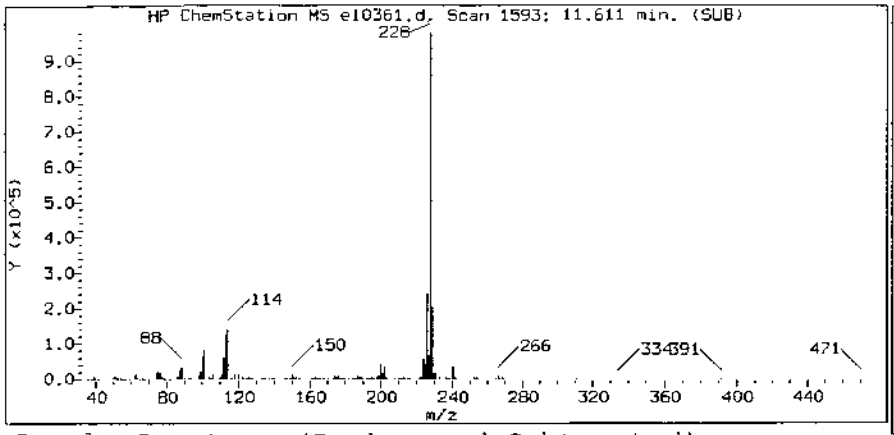
Lab Sample ID: 6477567

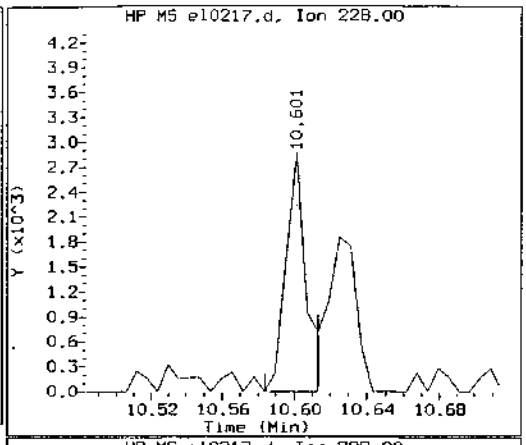
Compound Number	: 154
Compound Name	: Pyrene
Scan Number	: 1395
Retention Time (minutes)	: 9.626
Relative Retention Time	: 0.00062
Quant Ion	: 202.00
Area (flag)	: 74914
On-column Amount (ng/ul)	: 3.0141

PCH09 8463

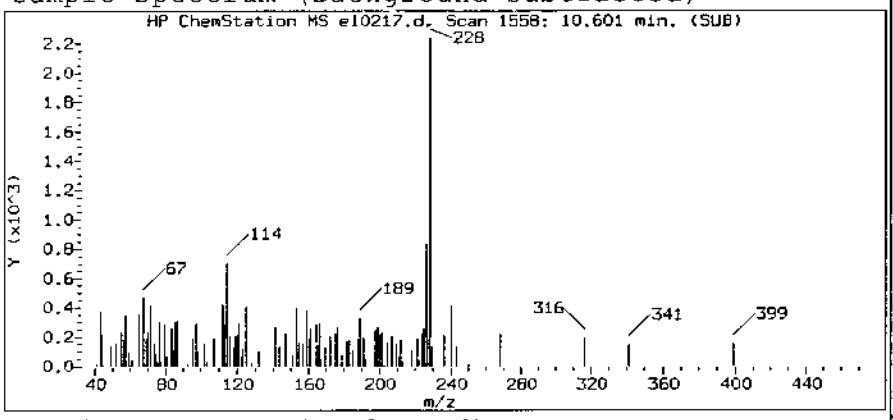
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

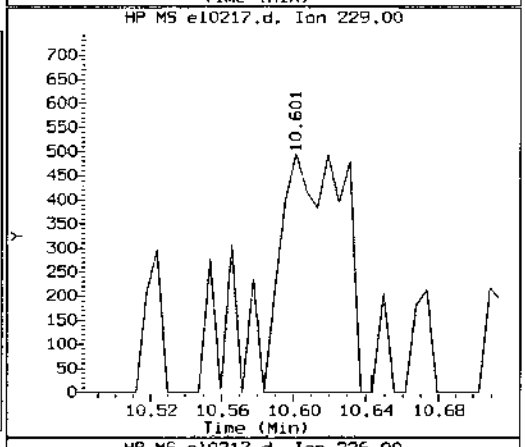
Reference Standard Spectrum for Benzo(a)anthracene



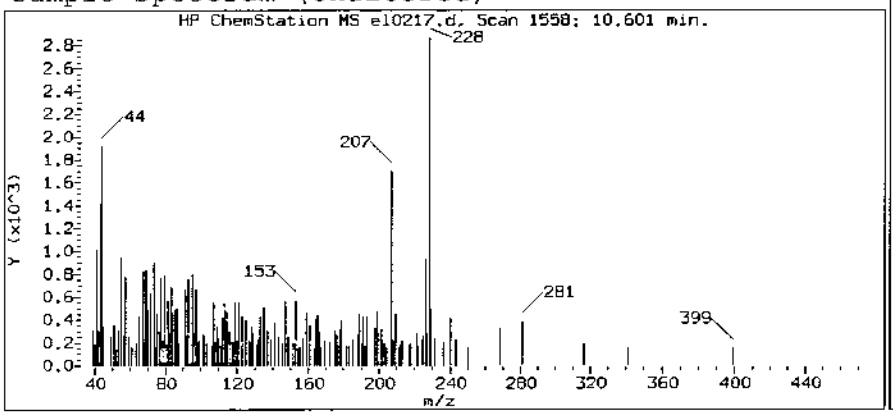


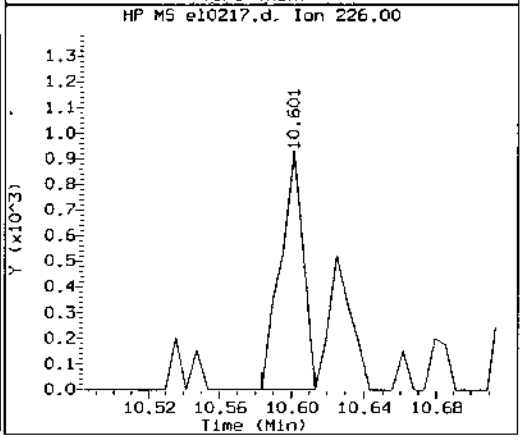
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

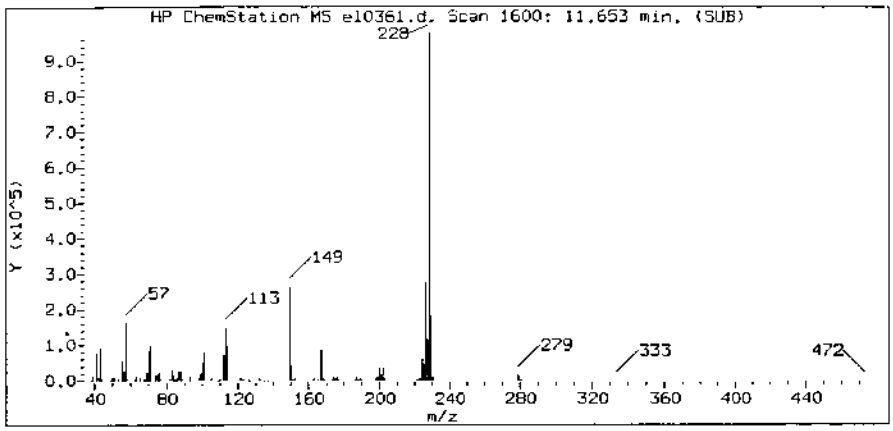
Sample Name: XXXXX Lab Sample ID: 6477567

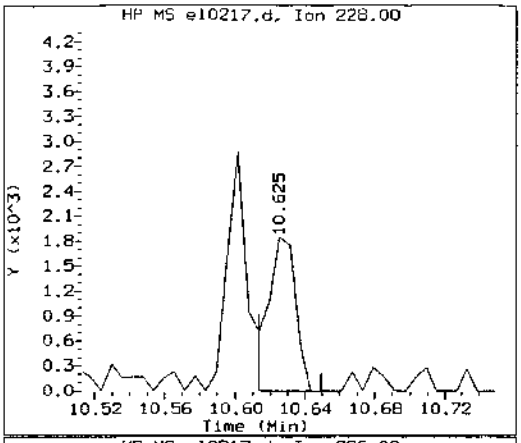
Compound Number	: 166
Compound Name	: Benzo(a)anthracene
Scan Number	: 1558
Retention Time (minutes)	: 10.601
Relative Retention Time	: 0.00062
Quant Ion	: 228.00
Area (flag)	: 2146
On-column Amount (ng/ul)	: 0.1119

PCH89 [8464

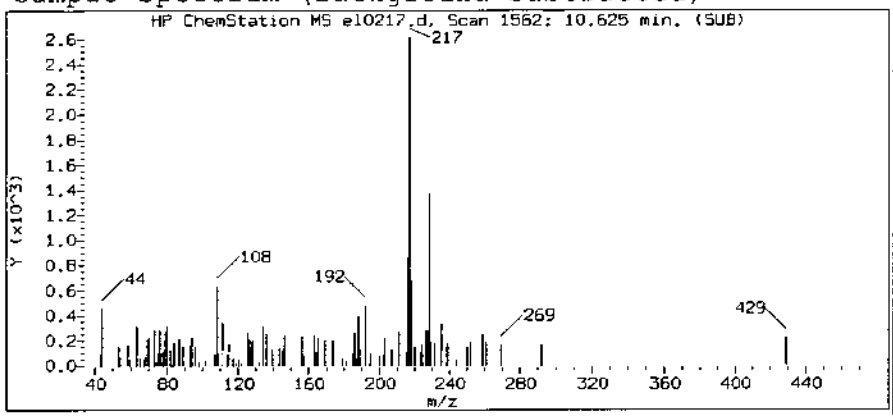
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

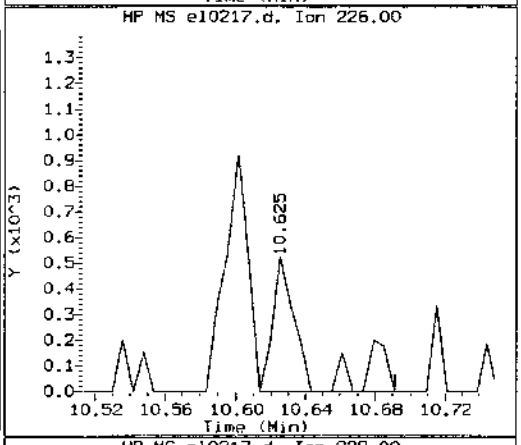
Reference Standard Spectrum for Chrysene



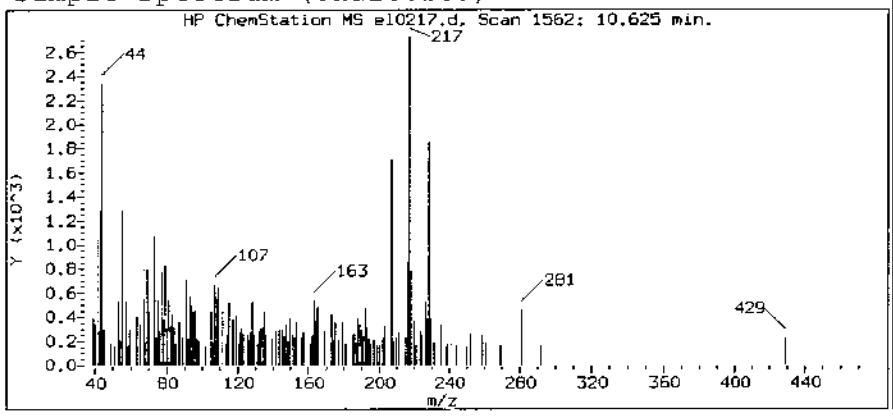


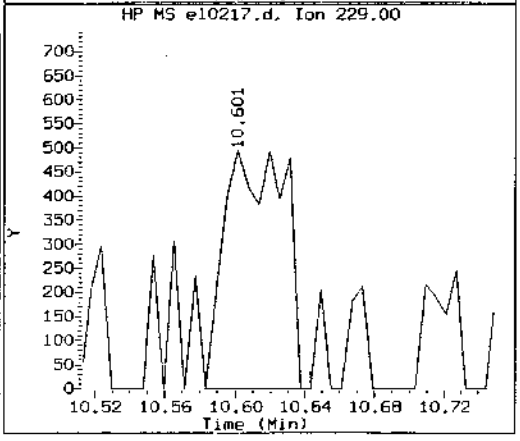
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

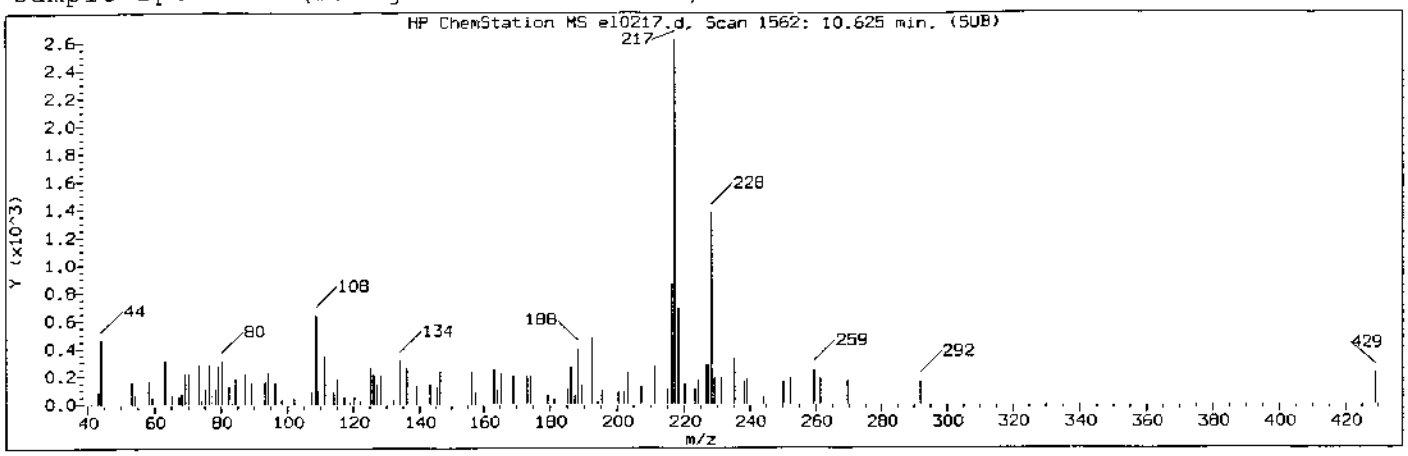
Sample Name: XXXXX Lab Sample ID: 6477567

Compound Number	: 168
Compound Name	: Chrysene
Scan Number	: 1562
Retention Time (minutes)	: 10.625
Relative Retention Time	: 0.00124
Quant Ion	: 228.00
Area (flag)	: 2124M
On-column Amount (ng/ul)	: 0.1074

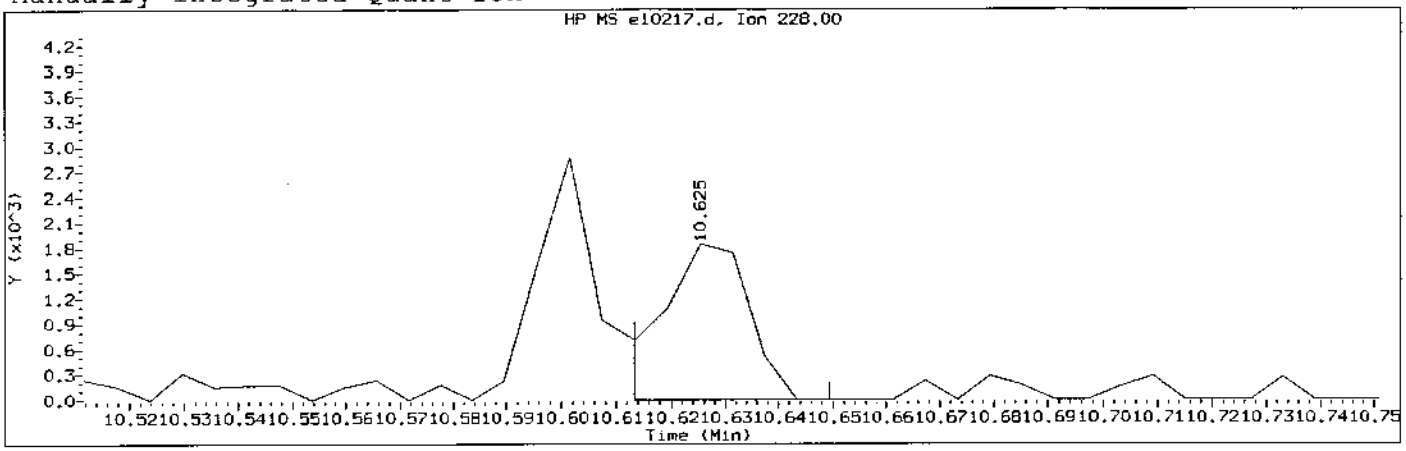
PCH09 8465

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:27 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477567

Compound Number	: 168		
Compound Name	: Chrysene		
Scan Number	: 1562		
Retention Time (minutes)	: 10.625		
Quant Ion	: 228.00		
Area (flag)	: 2124M		
On-column Amount (ng/ul)	: 0.1074		
Integration start scan	: 1559	Integration stop scan:	1565
Y at integration start	: 0	Y at integration end:	0

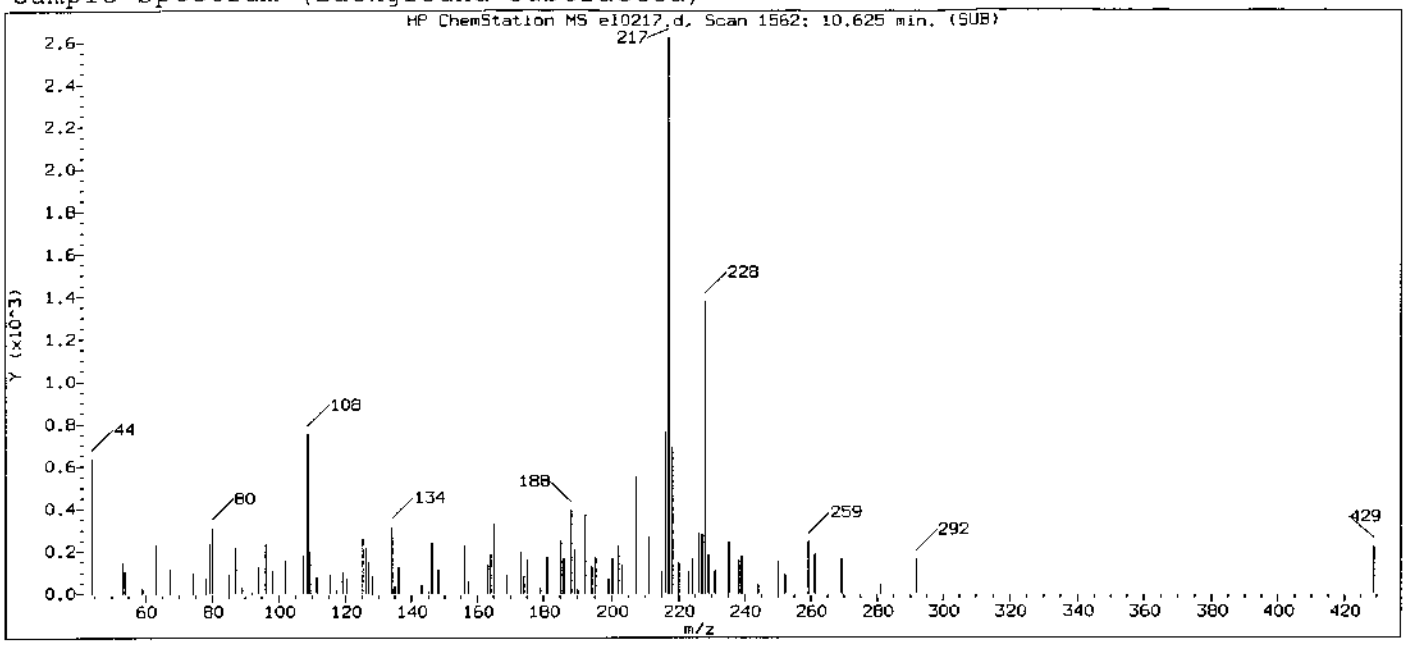
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

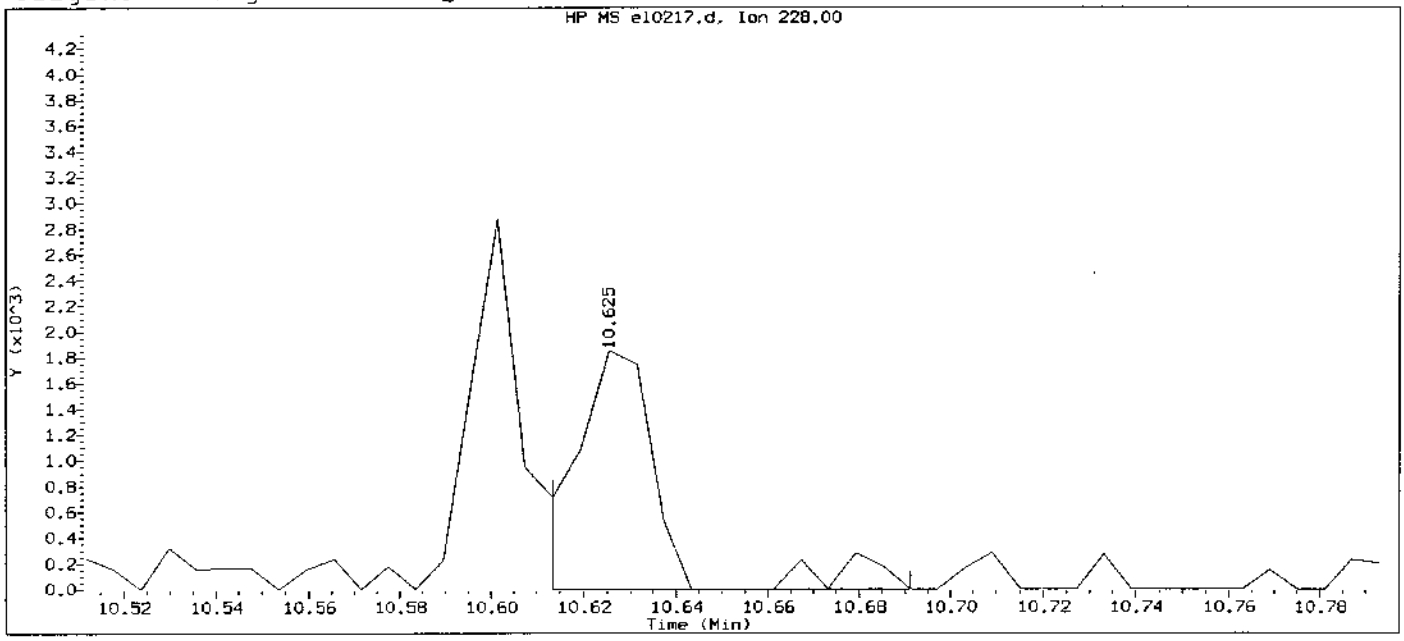
PCH89 8466

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
ParaMax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0217.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 15:40 msw02109

Sample Name: XXXXX Lab Sample ID: 6477567

Compound Number	: 168
Compound Name	: Chrysene
Scan Number	: 1562
Retention Time (minutes)	: 10.625
Quant Ion	: 228.00
Area	: 2241
On-column Amount (ng/ul)	: 0.1133
Integration start scan	: 1559
Integration stop scan	: 1572
Y at integration start	: 0
Y at integration end	: 0

PCH89 8467

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:34.
Target 3.5 esignature user ID: jrr02820

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT9S

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477568

Sample wt/vol: 1050 (g/mL)ML Lab File ID: el0218.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ	UG/L	Q
91-20-3	Naphthalene		0.5	U
208-96-8	Acenaphthylene		0.9	
83-32-9	Acenaphthene		3	
86-73-7	Fluorene		0.3	J
85-01-8	Phenanthrene		0.2	J
120-12-7	Anthracene		0.1	J
206-44-0	Fluoranthene		0.7	
129-00-0	Pyrene		1	
56-55-3	Benzo(a)anthracene		0.3	J
218-01-9	Chrysene		0.3	J
205-99-2	Benzo(b)fluoranthene		0.3	J
207-08-9	Benzo(k)fluoranthene		0.5	U
50-32-8	Benzo(a)pyrene		0.2	J
193-39-5	Indeno(1,2,3-cd)pyrene		0.5	U
53-70-3	Dibenz(a,h)anthracene		0.5	U
191-24-2	Benzo(g,h,i)perylene		0.2	J

PCH89 8468

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477568

Data file: /chem/HP09572.i/11dec05.b/el0218.d
Data file Sample Info. Line: XXXXX;6477568;
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Injection date and time: **05-DEC-2011 15:40**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew6270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1050 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	4.625(-0.006)	559	152	87092 (-14)	20.00	
52) Naphthalene-d8	5.792(0.000)	754	136	385026 (-19)	20.00	
98) Acenaphthene-d10	7.264(0.000)	1000	164	256238 (-17)	20.00	
135) Phenanthrene-d10	8.472(0.000)	1202	188	433716 (-19)	20.00	
167) Pyrene-d10	9.615(0.000)	1393	212	464582 (-28)	20.00	
175) Perylene-d12	11.930(-0.006)	1780	264	306884 (-31)	20.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164(-0.001)	82	666000	79.675	80%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731(0.000)	172	1335860	86.152	86%		63 - 114
156) Terphenyl-d14	(5)	9.794(-0.001)	244	1248368	89.080	89%		34 - 118

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)			Not Detected					0.1
95) Acenaphthylene	(3)	7.150(-0.000)	152	21097	0.988	0.94			0.1
99) Acenaphthene	(3)	7.294(0.000)	153	41345	2.861	2.72			0.1
111) Fluorene	(3)	7.718(0.000)	166	5531M	0.325	0.31			0.1
137) Phenanthrene	(4)	8.490(0.000)	178	6334	0.255	0.24			0.1
138) Anthracene	(4)	8.532(0.000)	178	2490	0.102	0.10			0.1
147) Fluoranthene	(4)	9.447(0.000)	202	18043	0.756	0.72			0.1
154) Pyrene	(5)	9.633(0.000)	202	2554BM	1.005	0.96			0.1
166) Benzo(a)anthracene	(5)	10.608(0.000)	228	5545M	0.283	0.27			0.1
168) Chrysene	(5)	10.632(0.000)	228	5995M	0.296	0.28			0.1
172) Benzo(b)fluoranthene	(6)	11.559(0.000)	252	5502M	0.302	0.29			0.1
173) Benzo(k)fluoranthene	(6)			Not Detected					0.1
174) Benzo(a)pyrene	(6)	11.870(0.000)	252	3602M	0.223	0.21			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)	13.330(0.001)	276	2776M	0.195	0.19			0.1

M = Compound was manually integrated.

PCN89 8469

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36. Target 3.5 esignature user ID: jrr02820

XXXXX Lancaster Labs Analysis Summary for GC/MS Semivolatiles 6477568

Data file: /chem/HP09572.i/11dec05.b/el0218.d
Data file Sample Info. Line: XXXXX;6477568;
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Injection date and time: **05-DEC-2011 15:40**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1050 ml Volume Injected (Vi): 1 ul

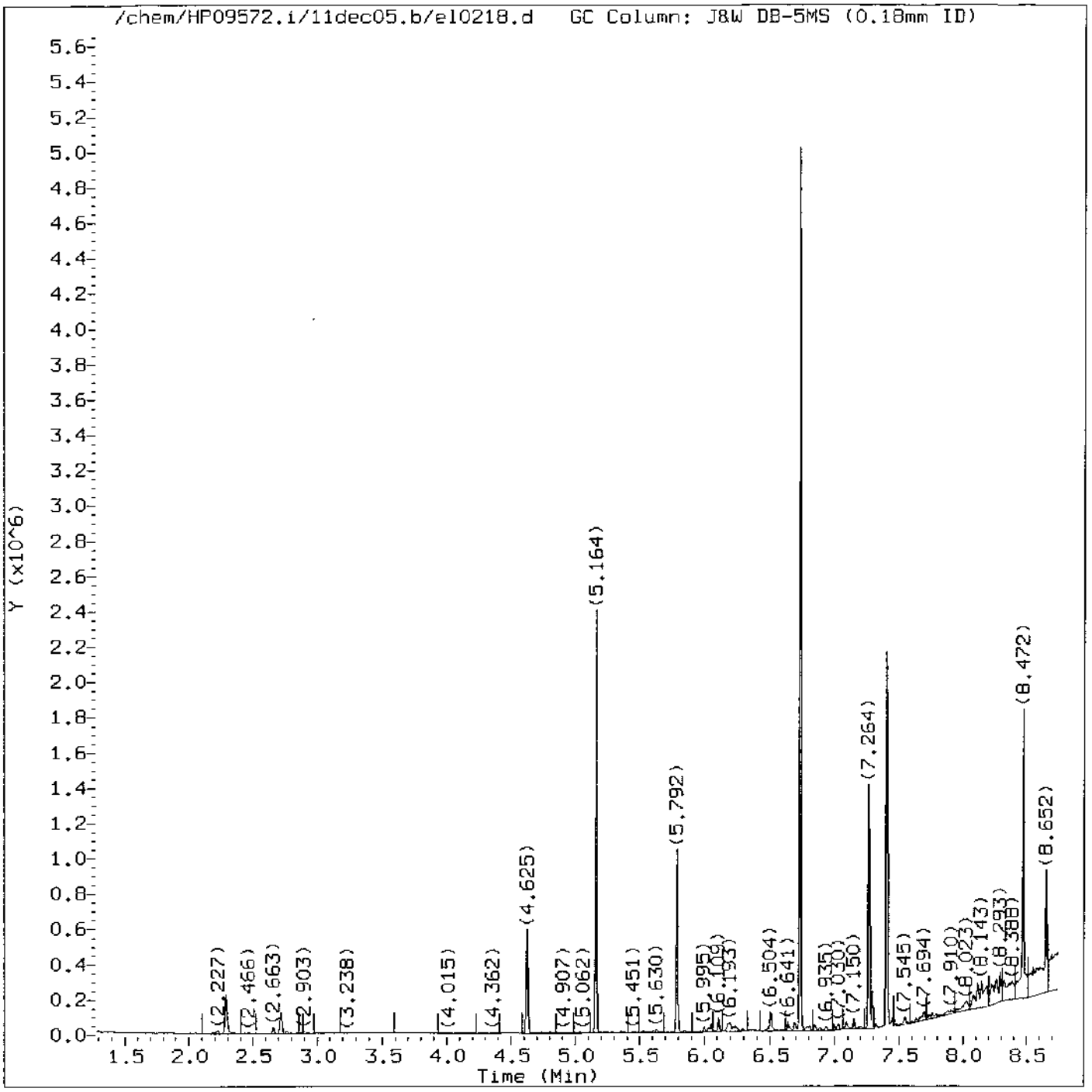
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WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 16

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36. Target 3.5 esignature user ID: jrr02820

PCH09 8478

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: Cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

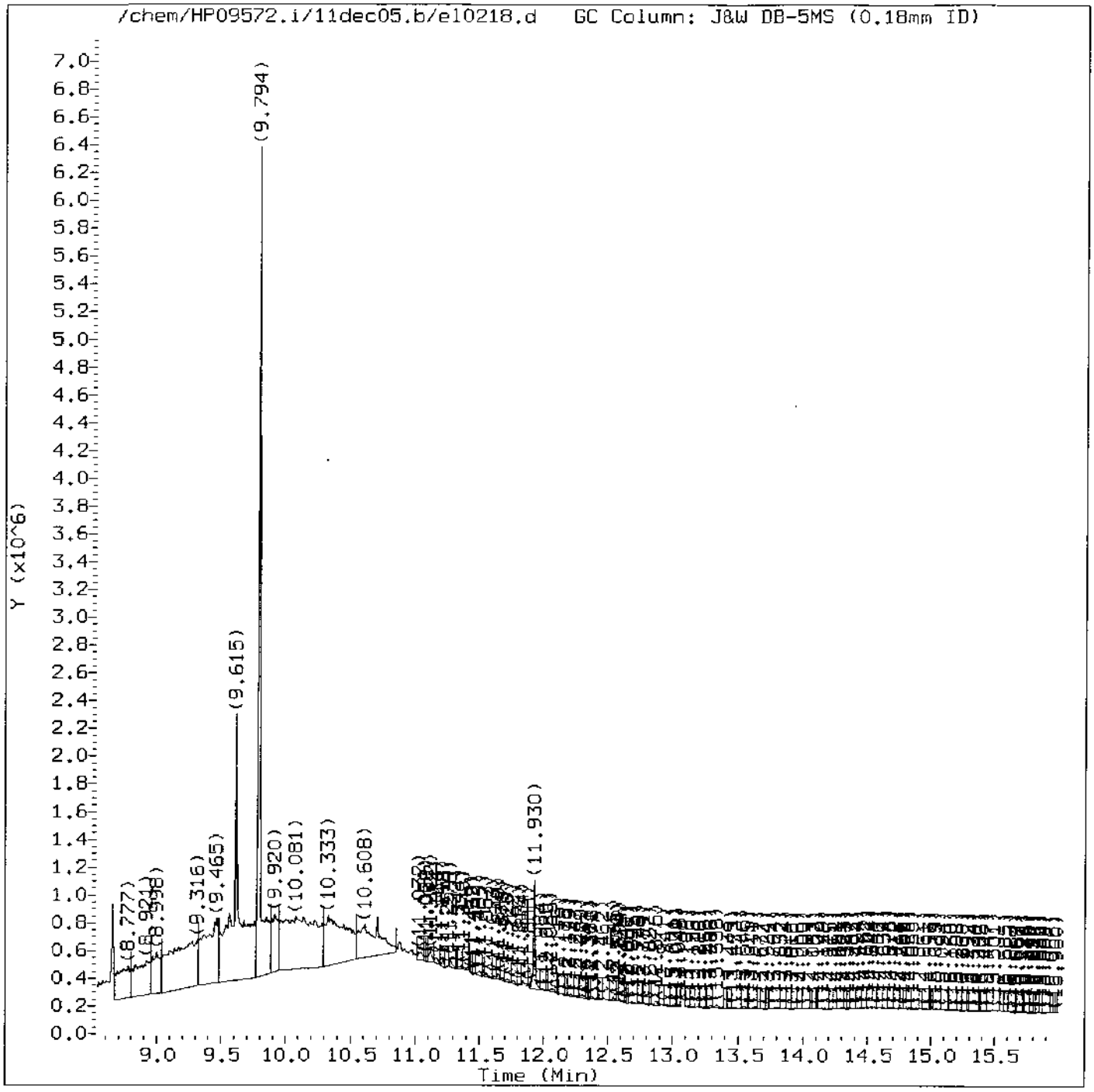
Data File: /chem/HP09572.i/11dec05.b/el0218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477568

PCH89 8471

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477568

PCN89 8472

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477568

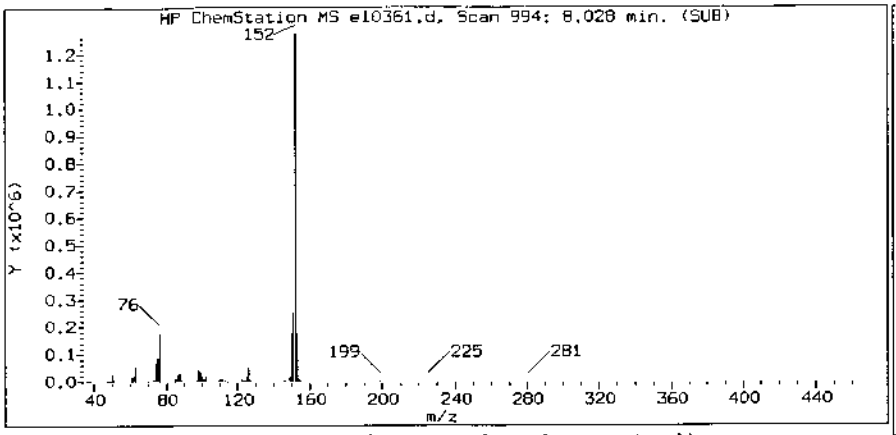
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	87092	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	666000	79.675
52)*Naphthalene-d8	(2)	5.792	136	385026	20.000
78)$2-Fluorobiphenyl	(3)	6.731	172	1335860	86.152
95) Acenaphthylene	(3)	7.150	152	21097	0.988
98)*Acenaphthene-d10	(3)	7.264	164	256238	20.000
99) Acenaphthene	(3)	7.294	153	41345	2.861
111) Fluorene	(3)	7.718	166	5531M	0.325
135)*Phenanthrene-d10	(4)	8.472	188	433716	20.000
137) Phenanthrene	(4)	8.490	178	6334	0.255
138) Anthracene	(4)	8.532	178	2490	0.102
147) Fluoranthene	(4)	9.447	202	18043	0.756
167)*Pyrene-d10	(5)	9.615	212	464582	20.000
154) Pyrene	(5)	9.633	202	25548M	1.005
156)$Terphenyl-d14	(5)	9.794	244	1248368	89.080
166) Benzo(a)anthracene	(5)	10.608	228	5545M	0.283
168) Chrysene	(5)	10.632	228	5995M	0.296
172) Benzo(b)fluoranthene	(6)	11.559	252	5502M	0.302
174) Benzo(a)pyrene	(6)	11.870	252	3602M	0.223
175)*Perylene-d12	(6)	11.930	264	306884	20.000
179) Benzo(g,h,i)perylene	(6)	13.330	276	2776M	0.195

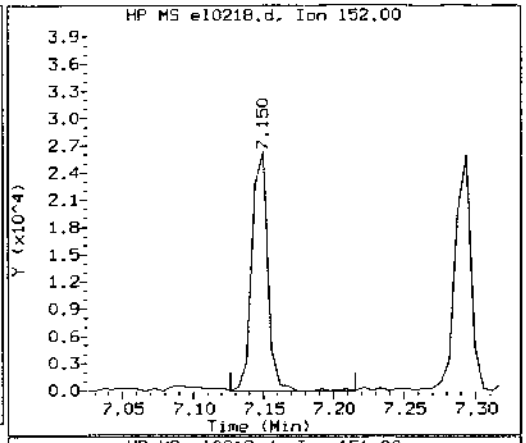
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PCH85 8473

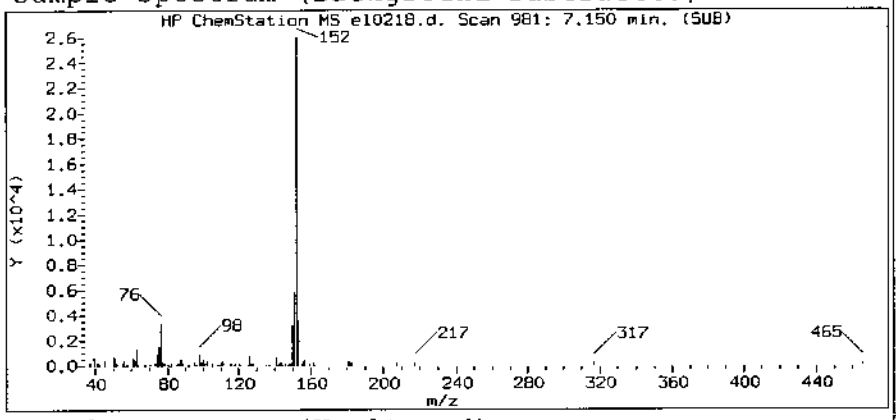
Digitally signed by Jennifer R. Riggs.
on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

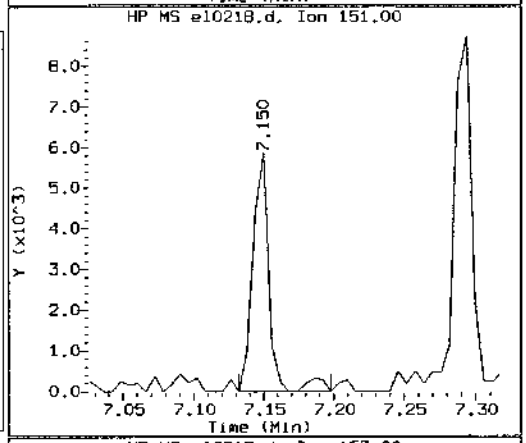
Reference Standard Spectrum for Acenaphthylene



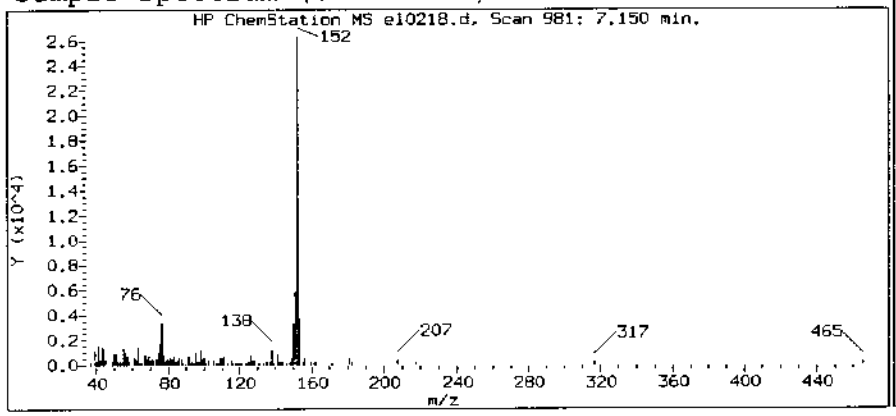


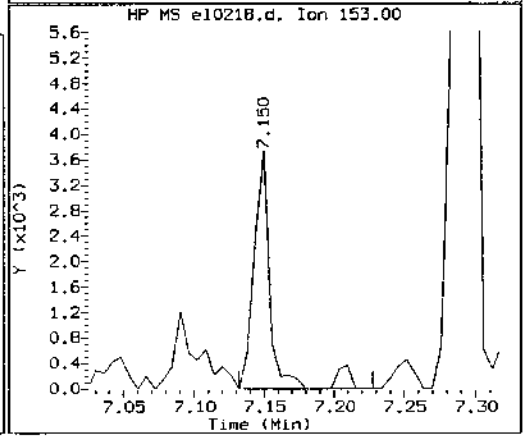
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10218.d
Injection date and time: 05-DEC-2011 15:40

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55

Sublist used: WPAH0826

Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX

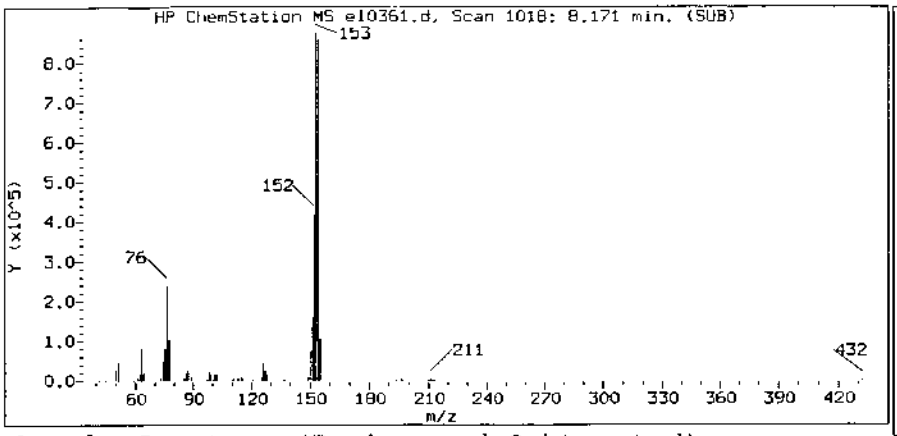
Lab Sample ID: 6477568

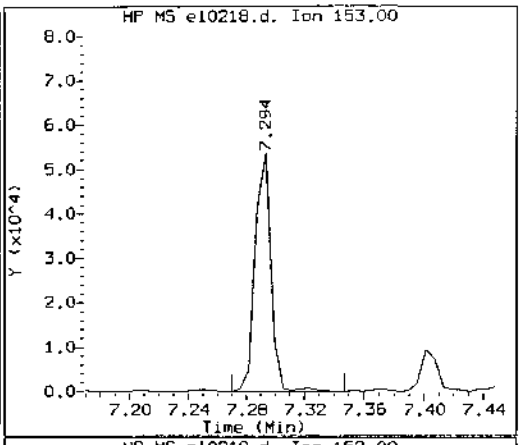
Compound Number : 95
Compound Name : Acenaphthylene
Scan Number : 981
Retention Time (minutes) : 7.150
Relative Retention Time :-0.00000
Quant Ion : 152.00
Area (flag) : 21097
On-column Amount (ng/ul) : 0.9876

PCH09 8474

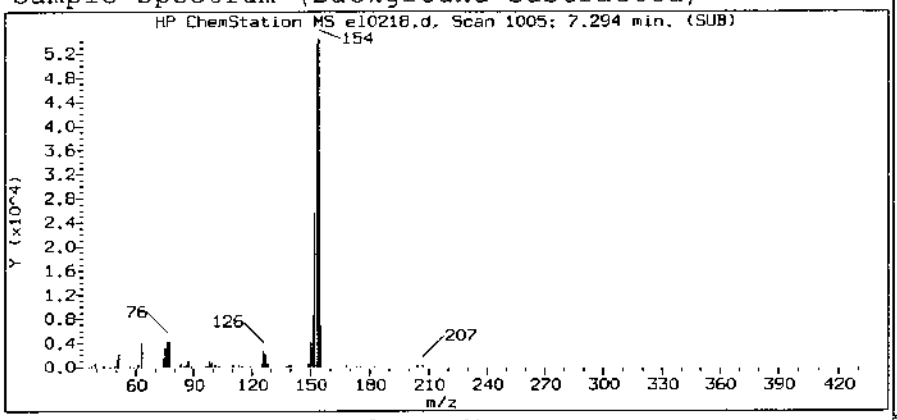
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

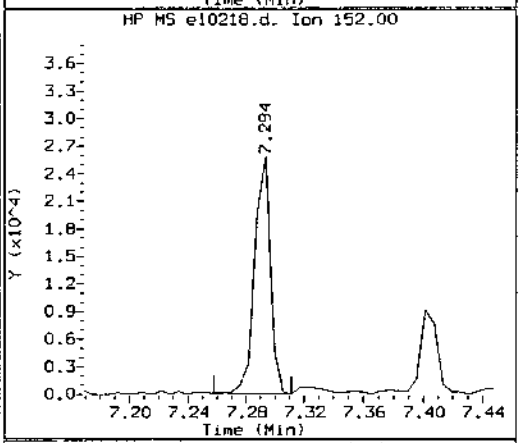
Reference Standard Spectrum for Acenaphthene



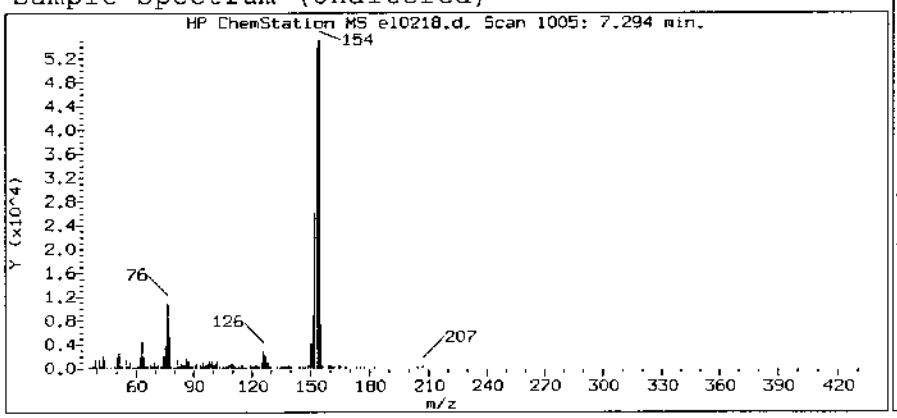


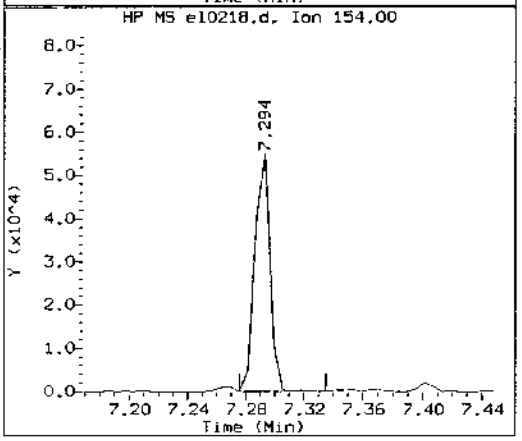
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10218.d
Injection date and time: 05-DEC-2011 15:40

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55

Sublist used: WPAH0826

Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX

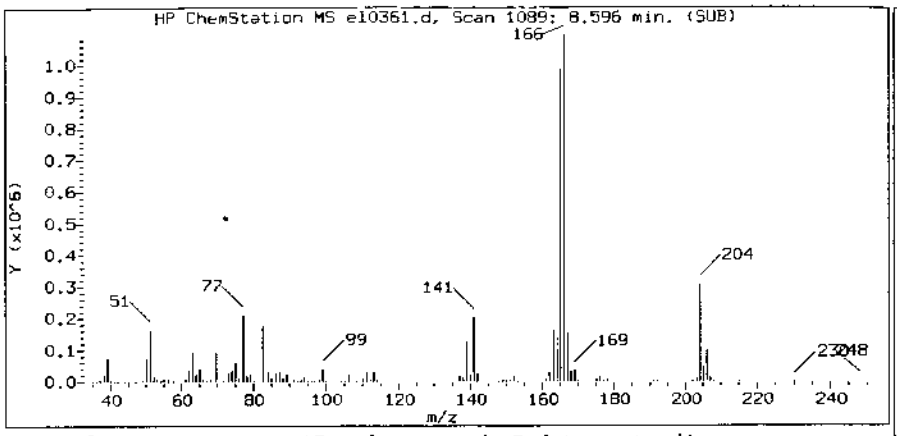
Lab Sample ID: 6477568

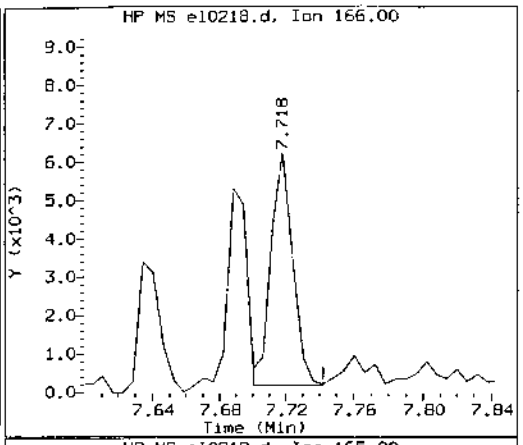
Compound Number	: 99
Compound Name	: Acenaphthene
Scan Number	: 1005
Retention Time (minutes)	: 7.294
Relative Retention Time	: 0.00000
Quant Ion	: 153.00
Area (flag)	: 41345
On-column Amount (ng/ul)	: 2.8606

PCH09-10475

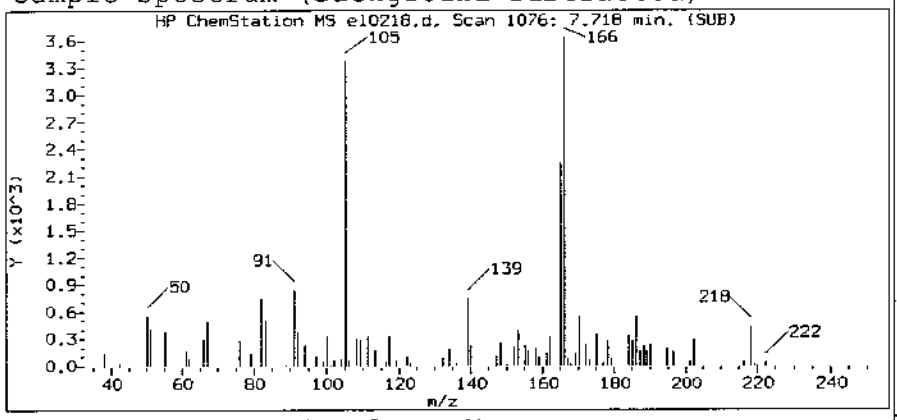
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

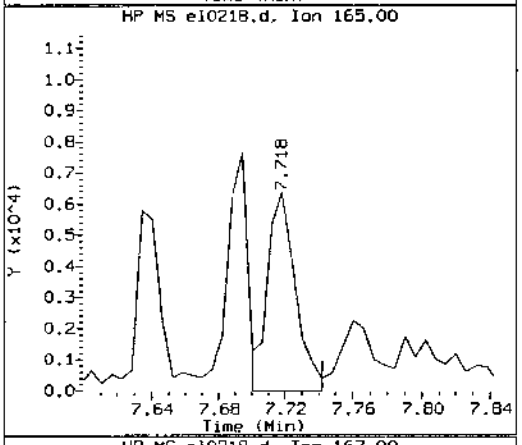
Reference Standard Spectrum for Fluorene



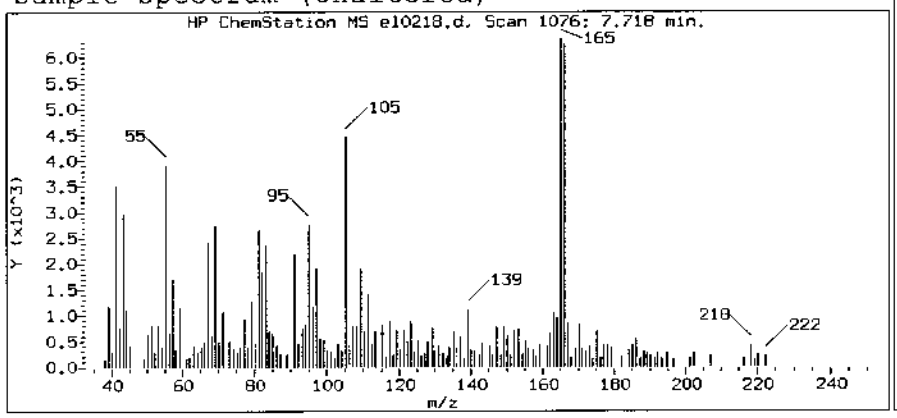


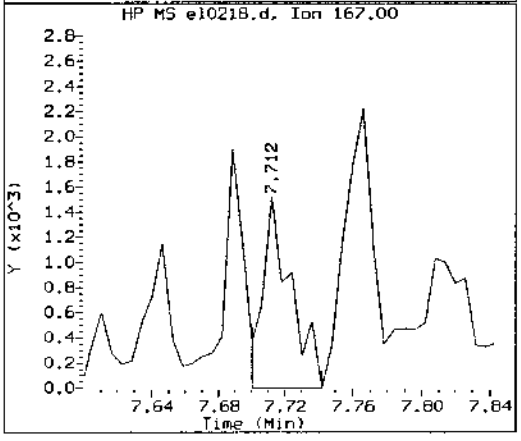
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

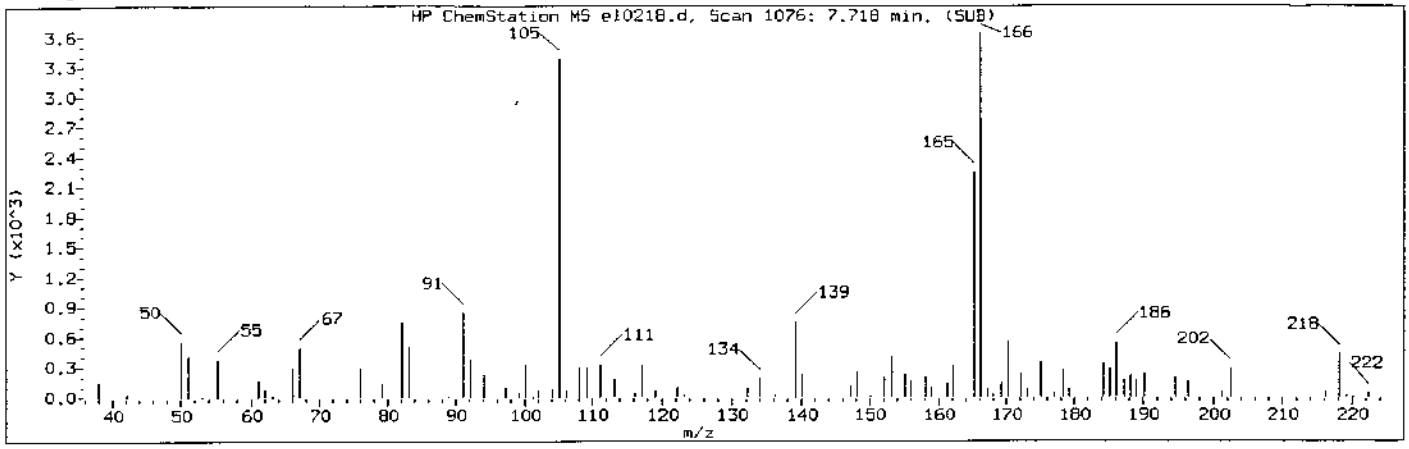
Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 111
Compound Name	: Fluorene
Scan Number	: 1076
Retention Time (minutes)	: 7.718
Relative Retention Time	: 0.00000
Quant Ion	: 166.00
Area (flag)	: 5531M
On-column Amount (ng/ul)	: 0.3247

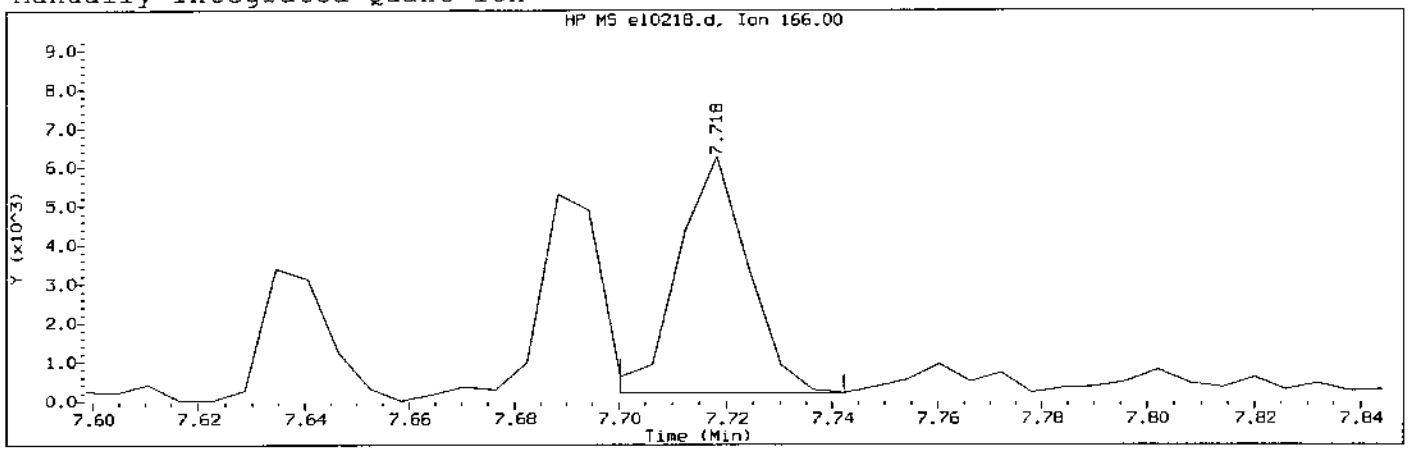
PCH09 0476

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 111		
Compound Name	: Fluorene		
Scan Number	: 1076		
Retention Time (minutes)	: 7.718		
Quant Ion	: 166.00		
Area (flag)	: 5531M		
On-column Amount (ng/ul)	: 0.3247		
Integration start scan	: 1072	Integration stop scan:	1079
Y at integration start	: 189	Y at integration end:	189

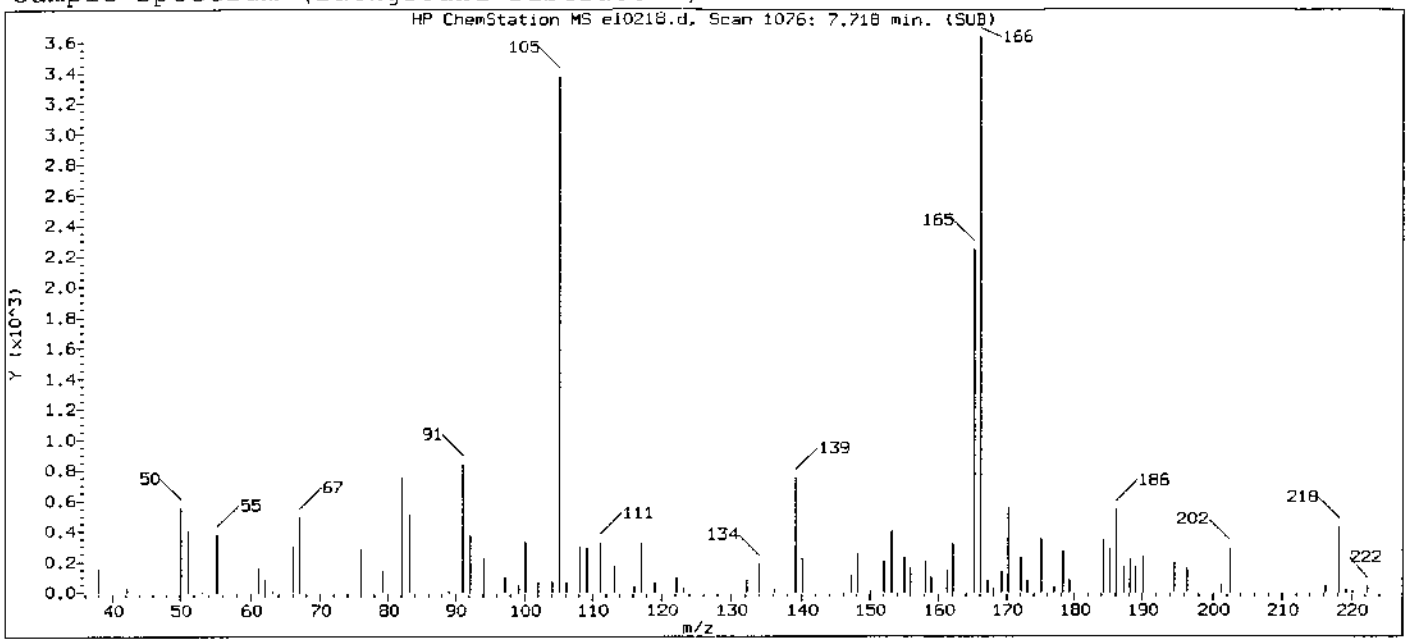
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36. Target 3.5 esignature user ID: jrr02820

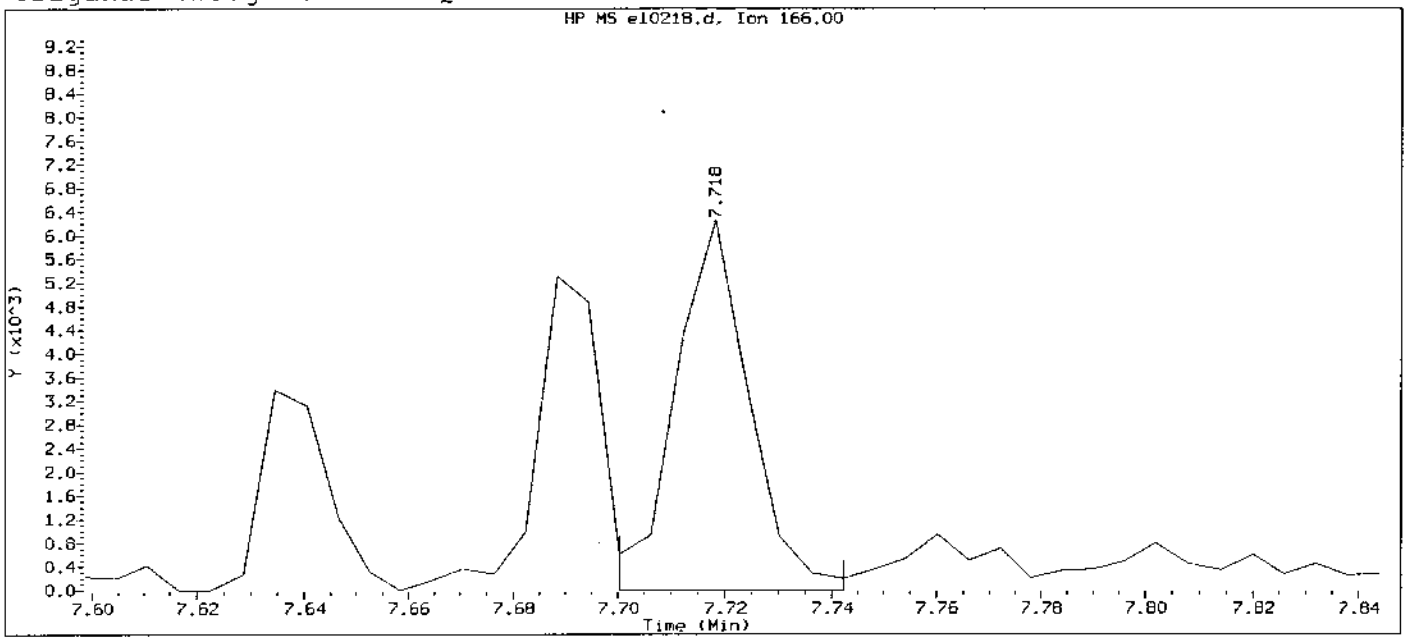
PCH89 6477

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newal11
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:03 Automation

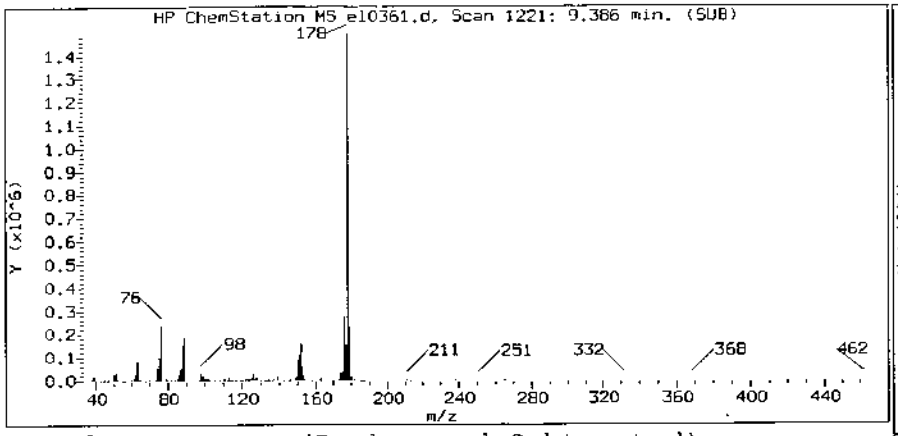
Sample Name: XXXXX Lab Sample ID: 6477568

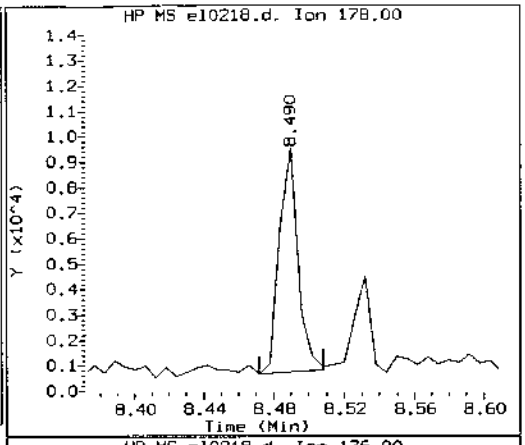
Compound Number	: 111		
Compound Name	: Fluorene		
Scan Number	: 1076		
Retention Time (minutes)	: 7.718		
Quant Ion	: 166.00		
Area	: 5928		
On-column Amount (ng/ul)	: 0.3480		
Integration start scan	: 1072	Integration stop scan:	1079
Y at integration start	: 0	Y at integration end:	0

PCH09 8478

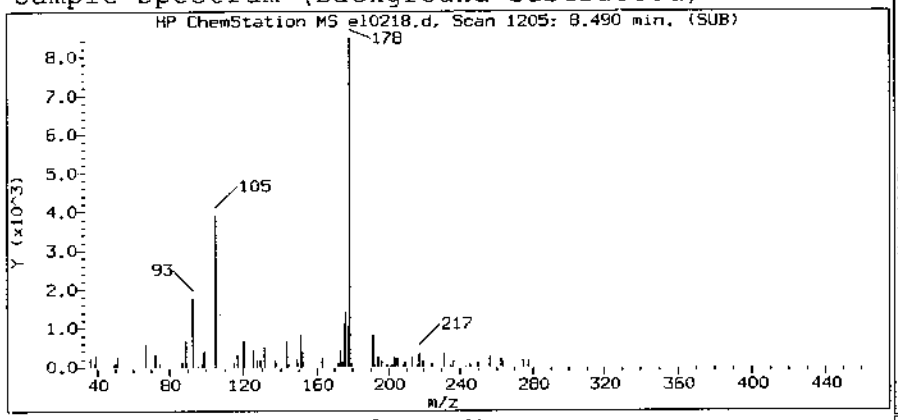
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

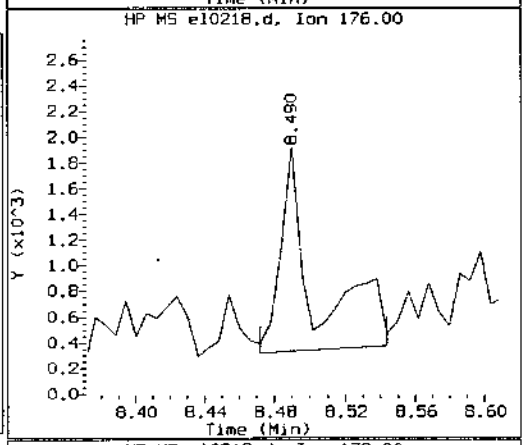
Reference Standard Spectrum for Phenanthrene



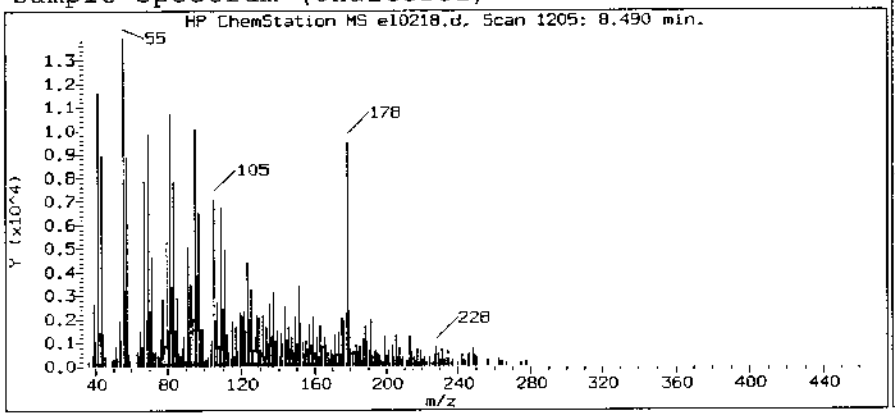


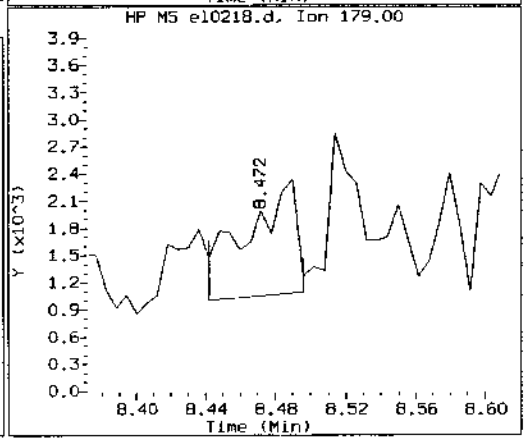
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10218.d
Injection date and time: 05-DEC-2011 15:40

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

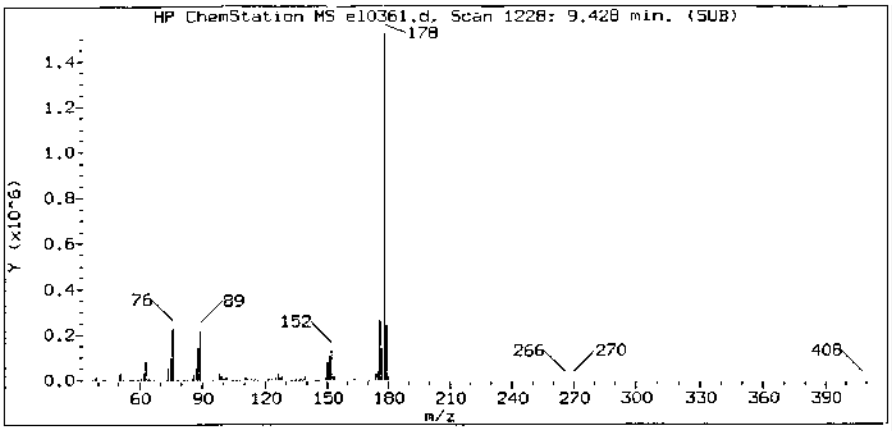
Lab Sample ID: 6477568

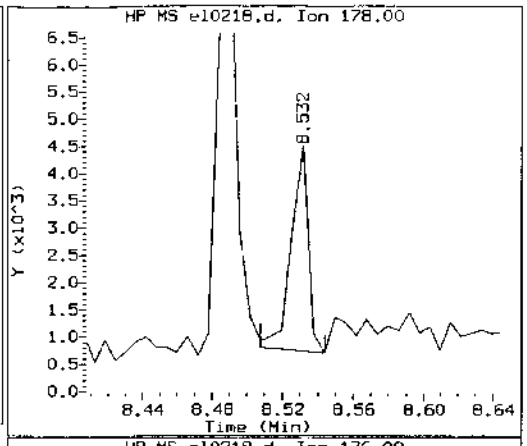
Compound Number	: 137
Compound Name	: Phenanthrene
Scan Number	: 1205
Retention Time (minutes)	: 8.490
Relative Retention Time	: 0.00000
Quant Ion	: 178.00
Area (flag)	: 6334
On-column Amount (ng/ul)	: 0.2554

PCH89 0479

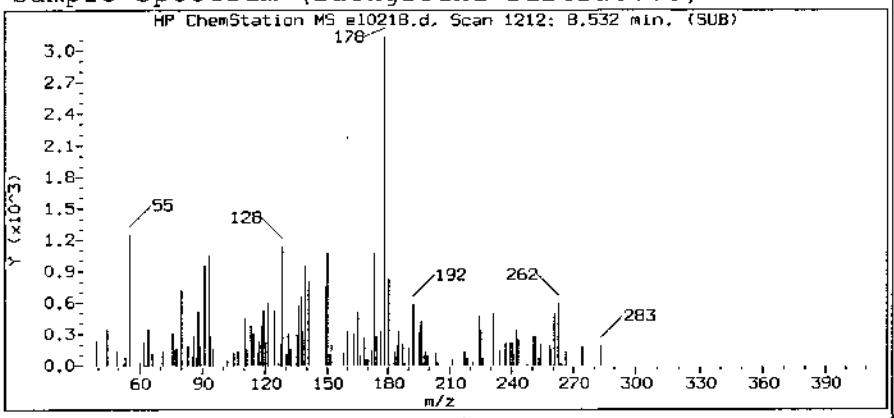
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

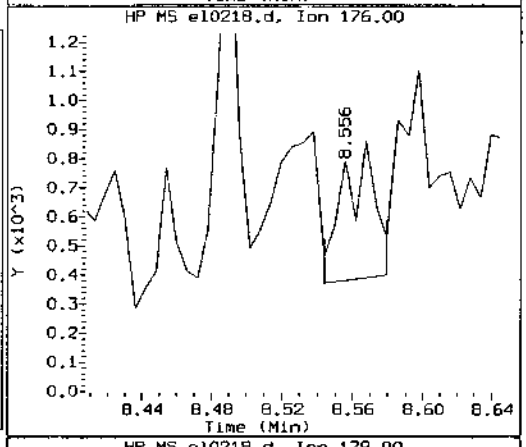
Reference Standard Spectrum for Anthracene



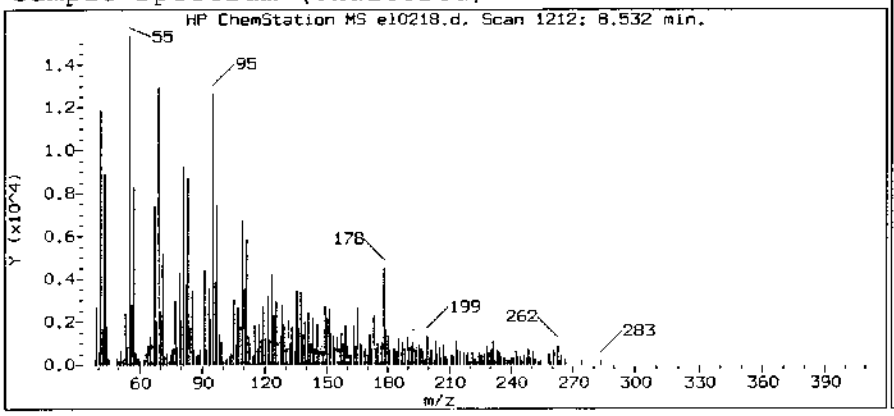


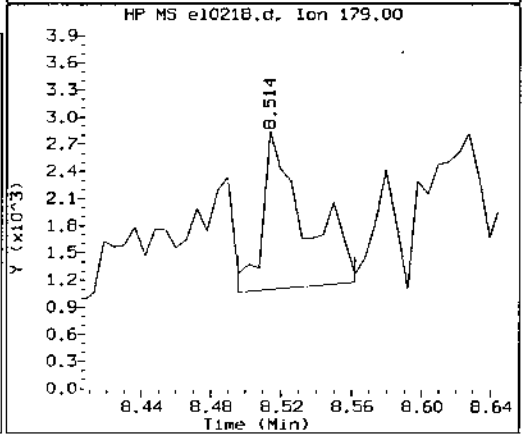
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10218.d
Injection date and time: 05-DEC-2011 15:40

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

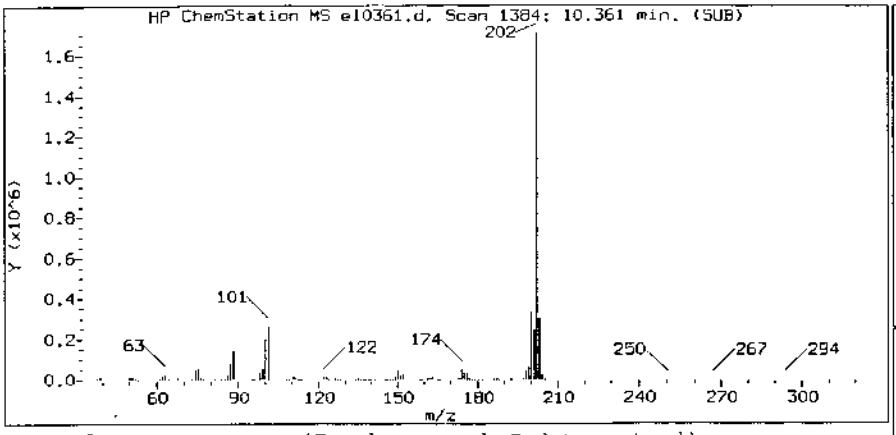
Lab Sample ID: 6477568

Compound Number	: 138
Compound Name	: Anthracene
Scan Number	: 1212
Retention Time (minutes)	: 8.532
Relative Retention Time	: 0.00000
Quant Ion	: 178.00
Area (flag)	: 2490
On-column Amount (ng/ul)	: 0.1018

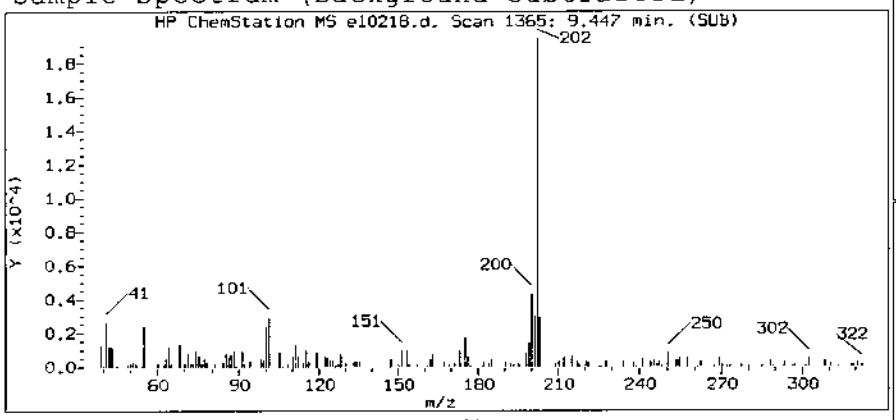
PCN89 8486

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

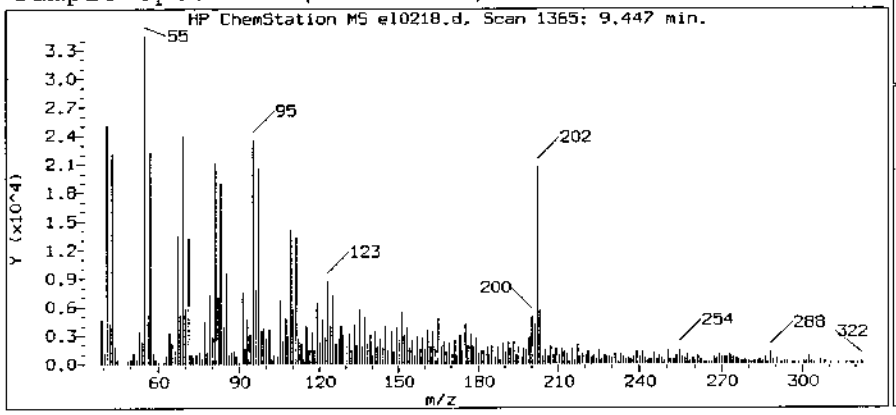
Reference Standard Spectrum for Fluoranthene

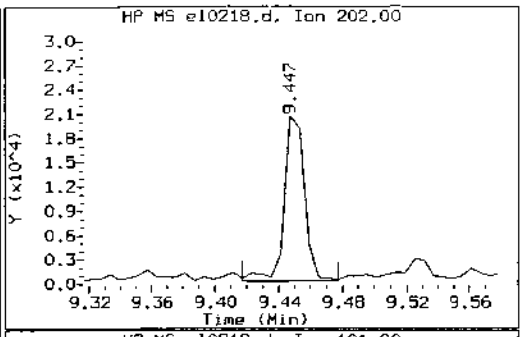


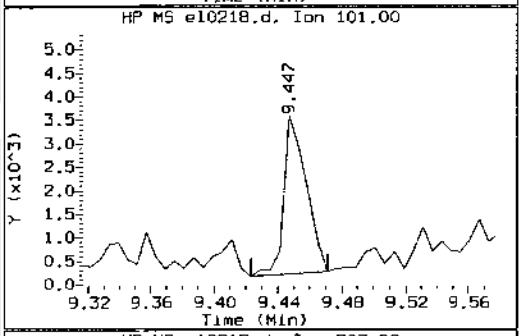
Sample Spectrum (Background Subtracted)

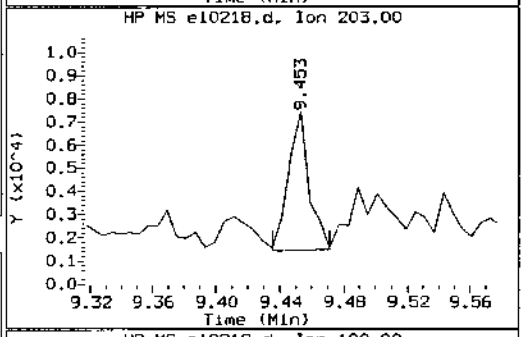


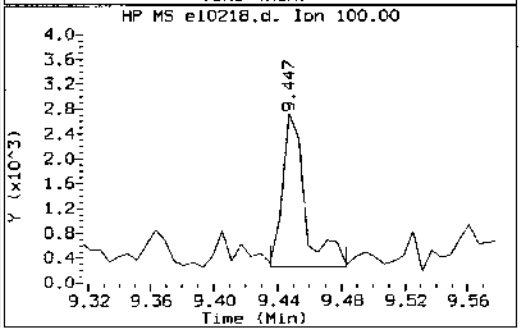
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11dec05.b/e10218.d
Injection date and time: 05-DEC-2011 15:40

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

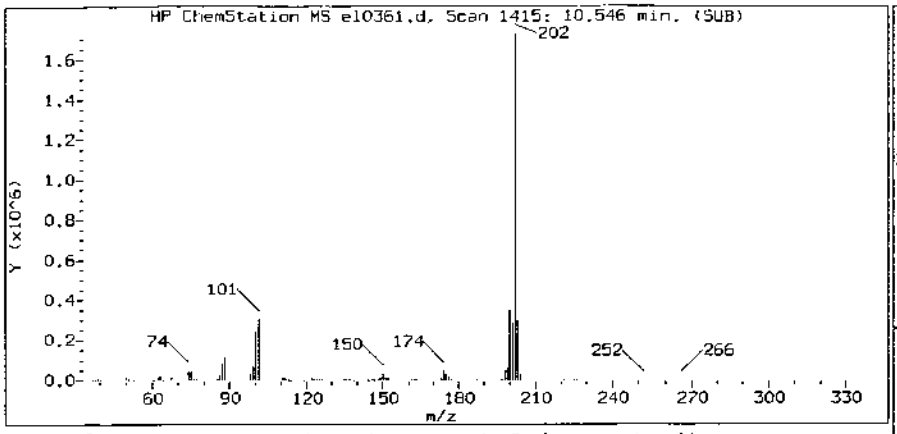
Lab Sample ID: 6477568

Compound Number	: 147
Compound Name	: Fluoranthene
Scan Number	: 1365
Retention Time (minutes)	: 9.447
Relative Retention Time	: 0.00071
Quant Ion	: 202.00
Area (flag)	: 18043
On-column Amount (ng/ul)	: 0.7555

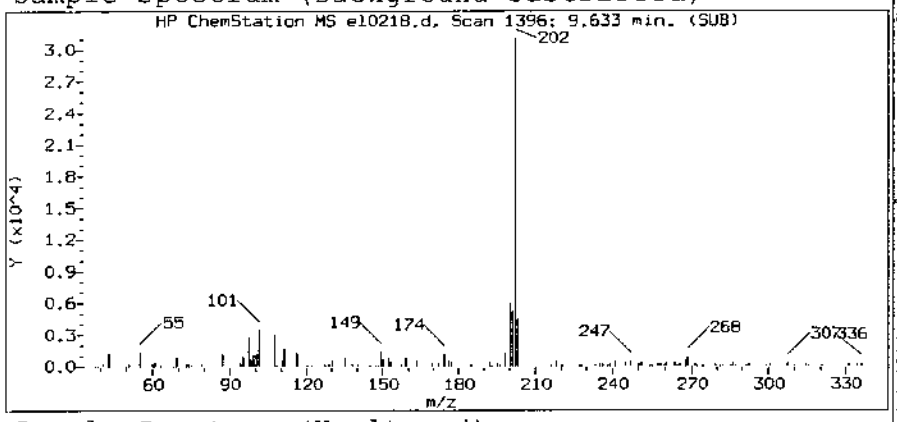
PCH09 8481

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

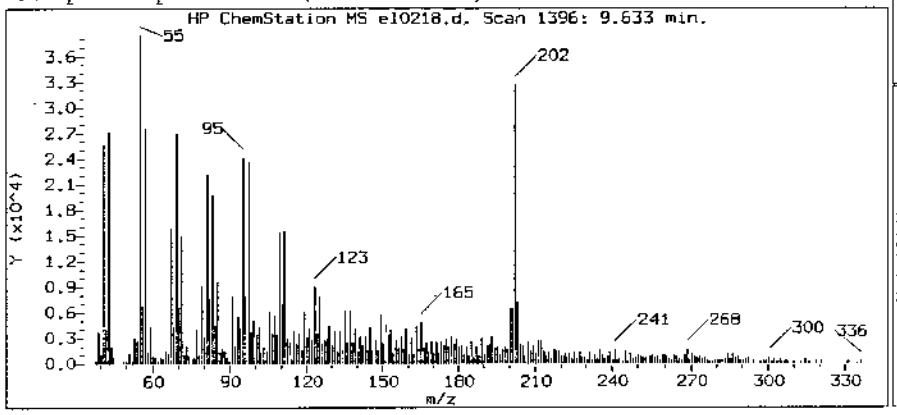
Reference Standard Spectrum for Pyrene

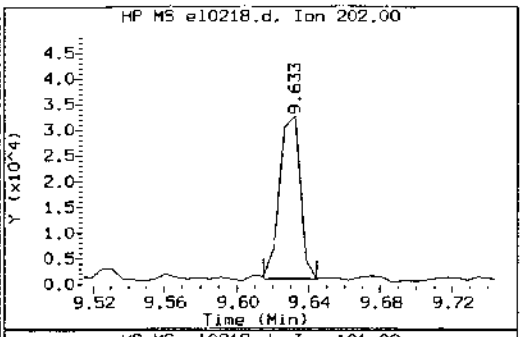


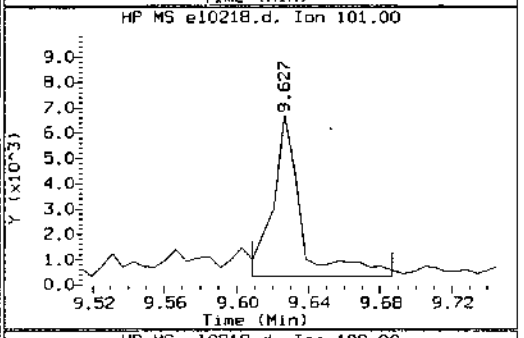
Sample Spectrum (Background Subtracted)

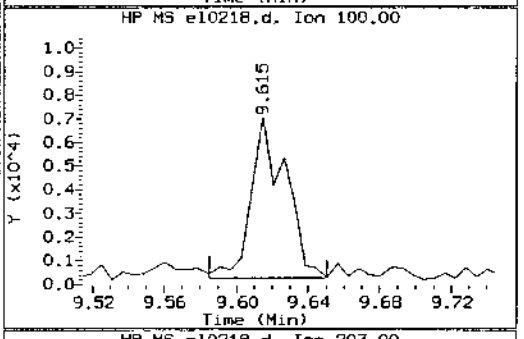


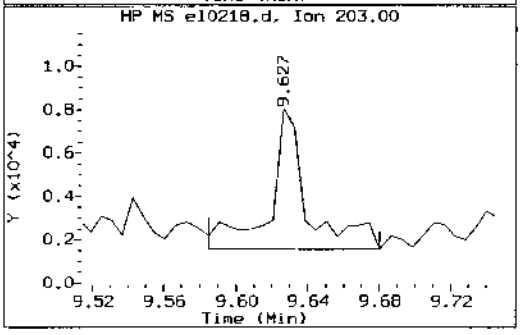
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11dec05.b/el0218.d
Injection date and time: 05-DEC-2011 15:40

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

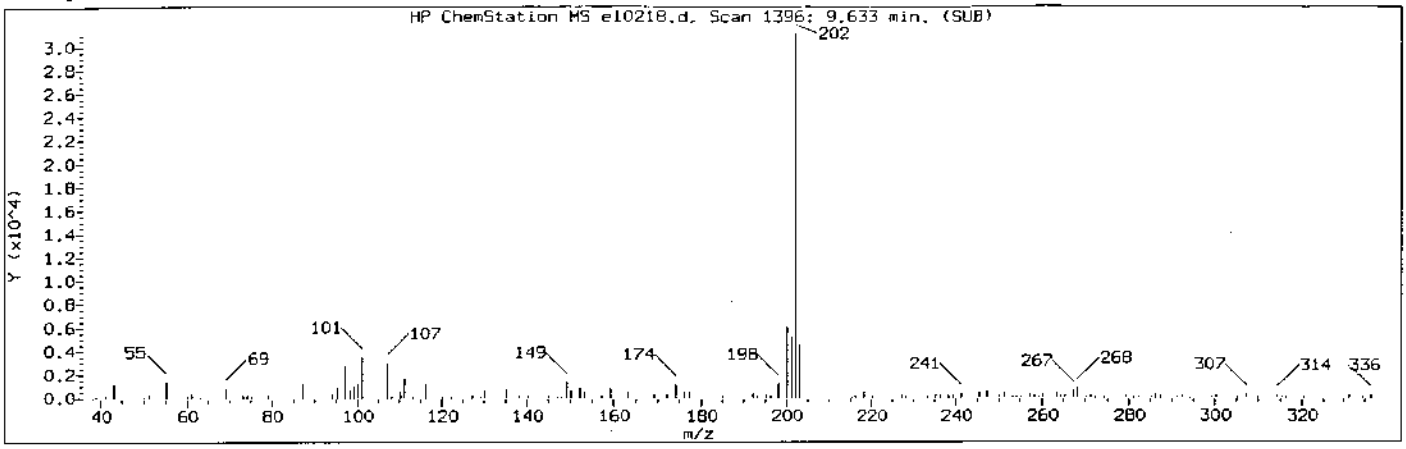
Lab Sample ID: 6477568

Compound Number	: 154
Compound Name	: Pyrene
Scan Number	: 1396
Retention Time (minutes)	: 9.633
Relative Retention Time	: 0.00000
Quant Ion	: 202.00
Area (flag)	: 25548M
On-column Amount (ng/ul)	: 1.0050

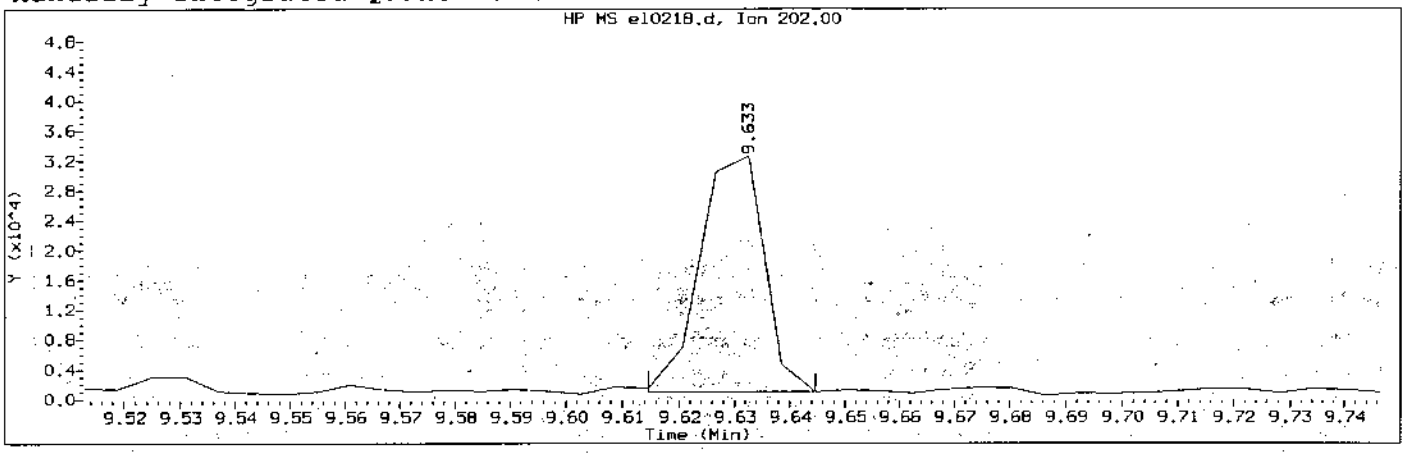
PCN89 8482

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 154		
Compound Name	: Pyrene		
Scan Number	: 1396		
Retention Time (minutes)	: 9.633		
Quant Ion	: 202.00		
Area (flag)	: 25548M		
On-column Amount (ng/ul)	: 1.0050		
Integration start scan	: 1392	Integration stop scan:	1397
Y at integration start	: 1034	Y at integration end:	1034

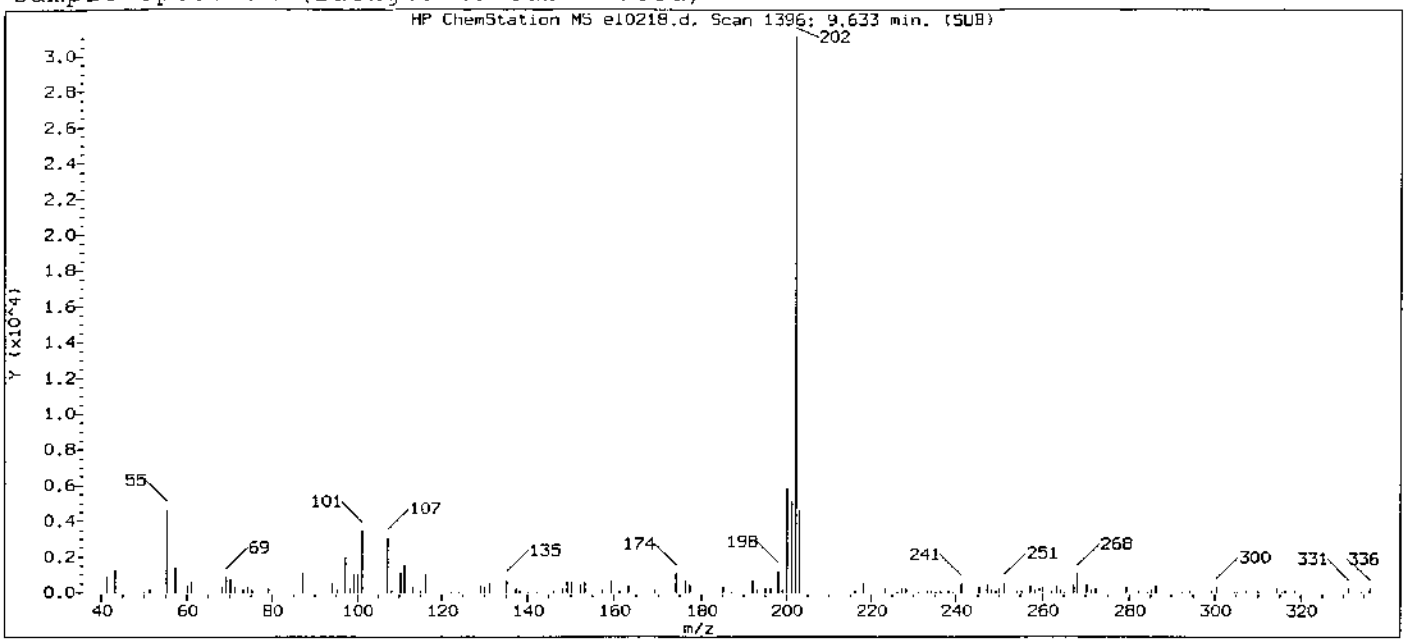
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36. Target 3.5 esignature user ID: jrr02820

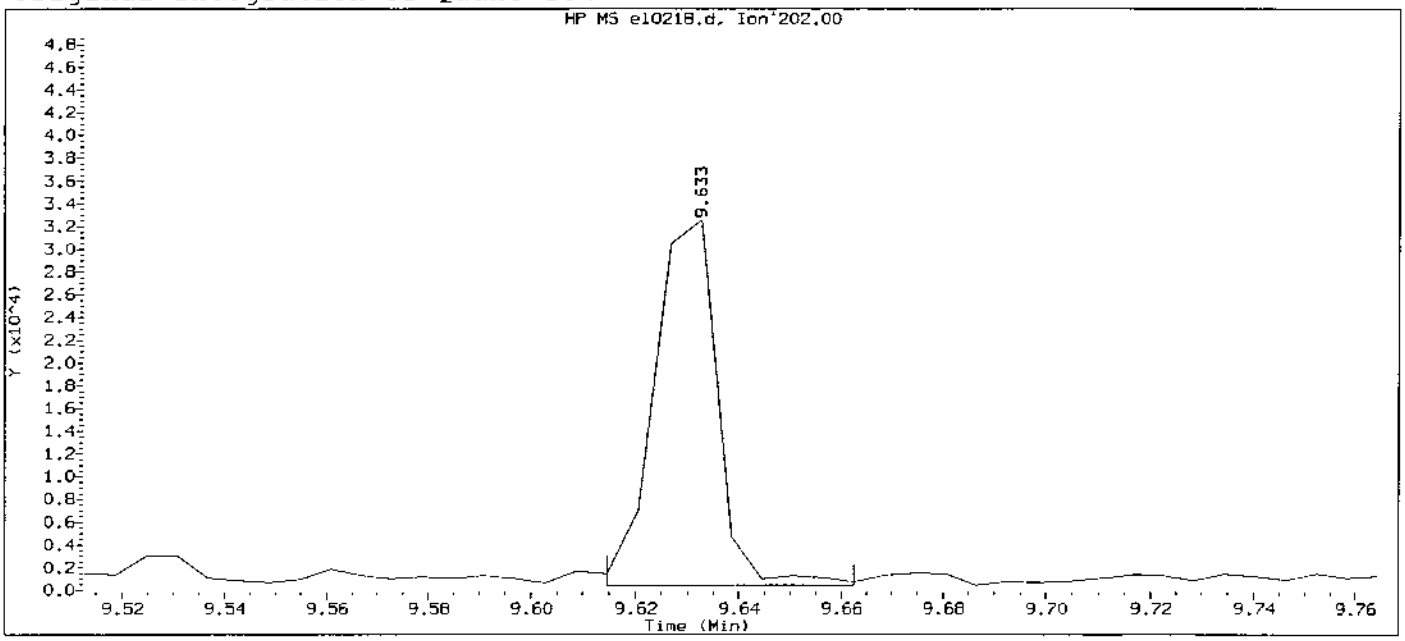
PCH89 8483

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:03 Automation

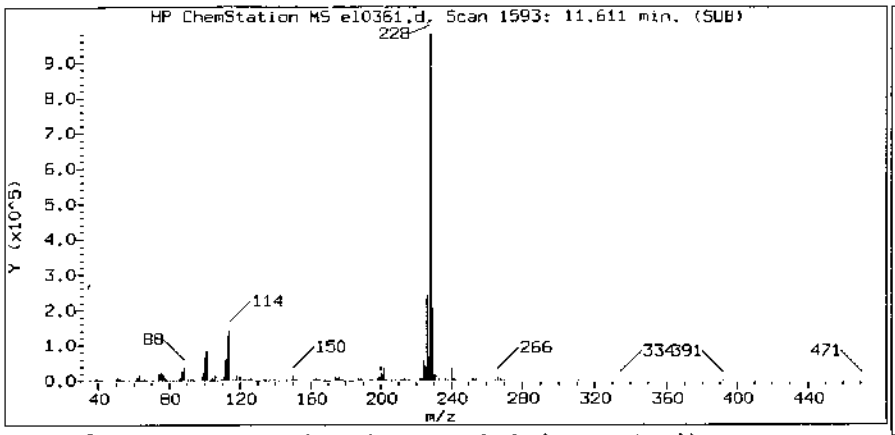
Sample Name: XXXXX Lab Sample ID: 6477568

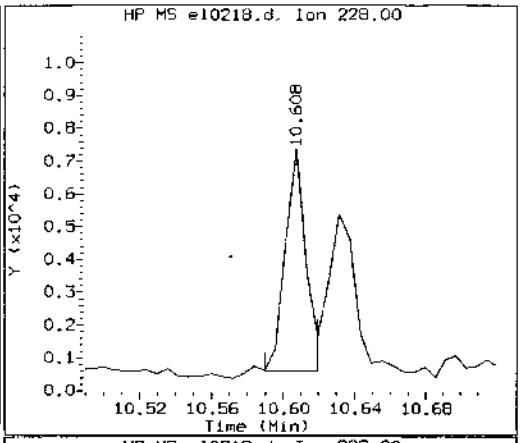
Compound Number	: 154		
Compound Name	: Pyrene		
Scan Number	: 1396		
Retention Time (minutes)	: 9.633		
Quant Ion	: 202.00		
Area	: 27263		
On-column Amount (ng/ul)	: 1.0725		
Integration start scan	: 1392	Integration stop scan:	1400
Y at integration start	: 431	Y at integration end:	435

PCH09 8484

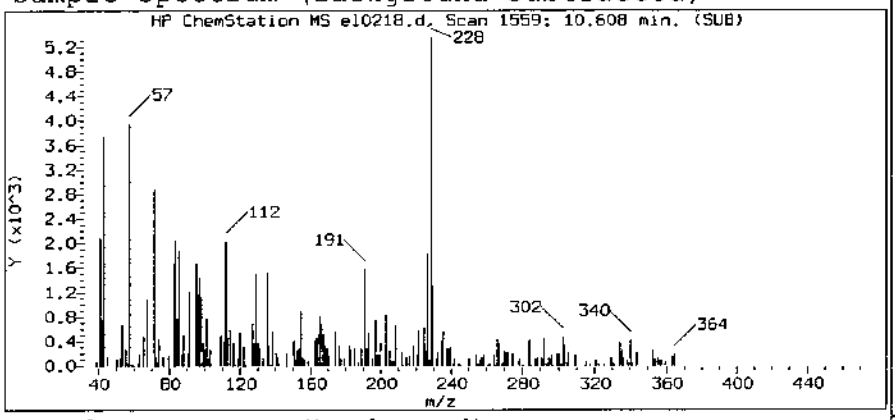
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

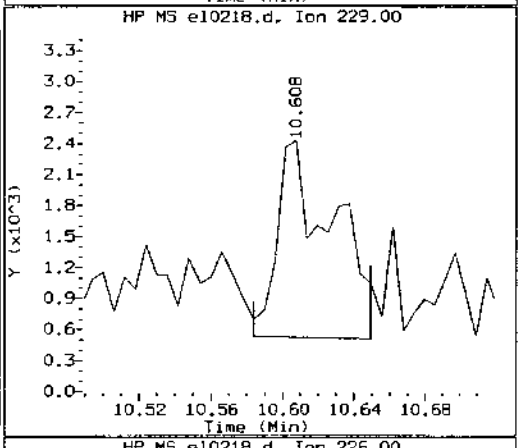
Reference Standard Spectrum for Benzo(a)anthracene



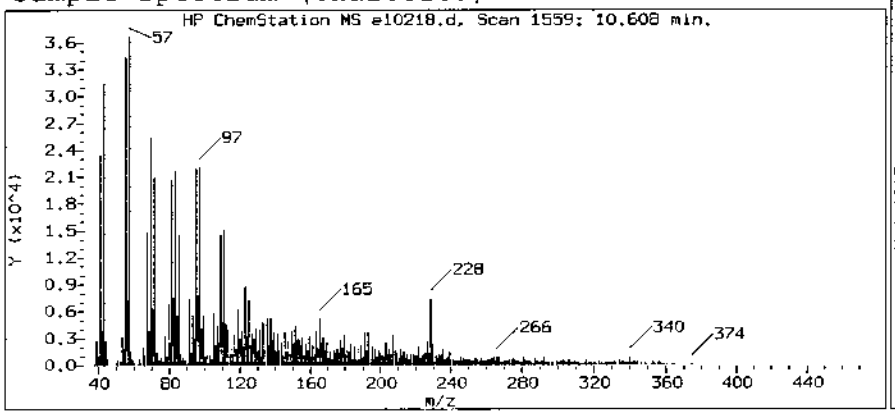


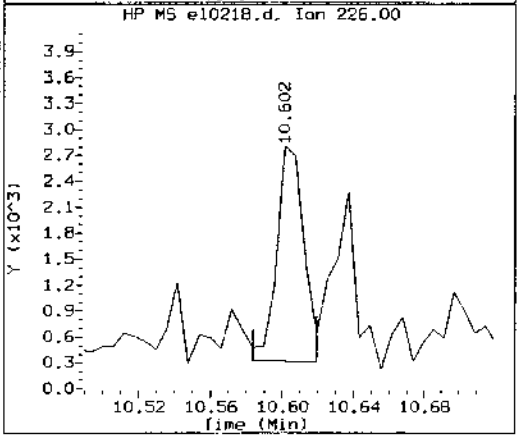
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

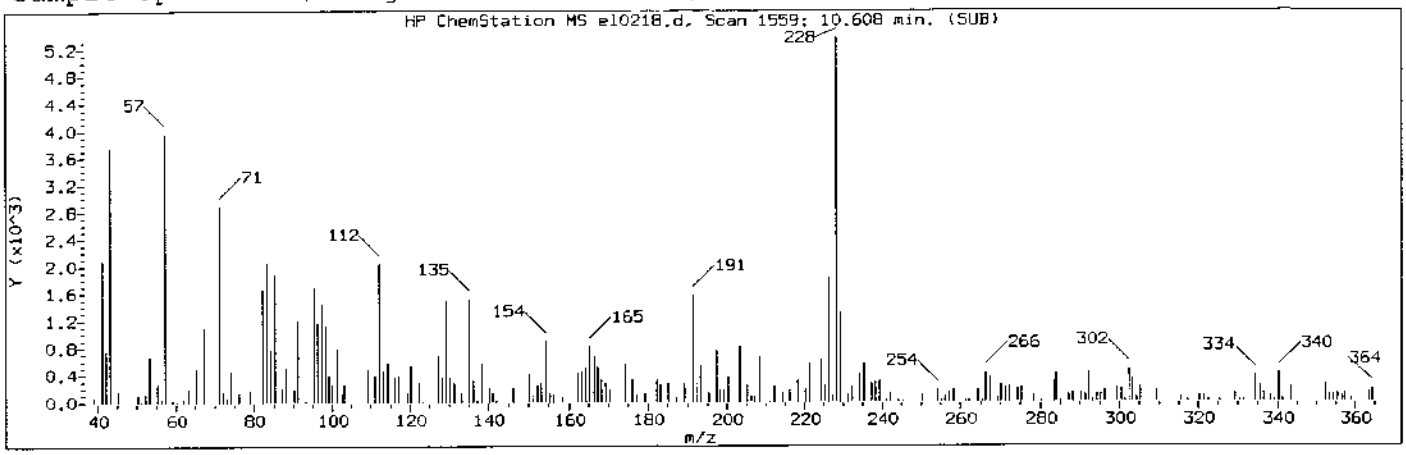
Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 166
Compound Name	: Benzo(a)anthracene
Scan Number	: 1559
Retention Time (minutes)	: 10.608
Relative Retention Time	: 0.00000
Quant Ion	: 228.00
Area (flag)	: 5545M
On-column Amount (ng/ul)	: 0.2826

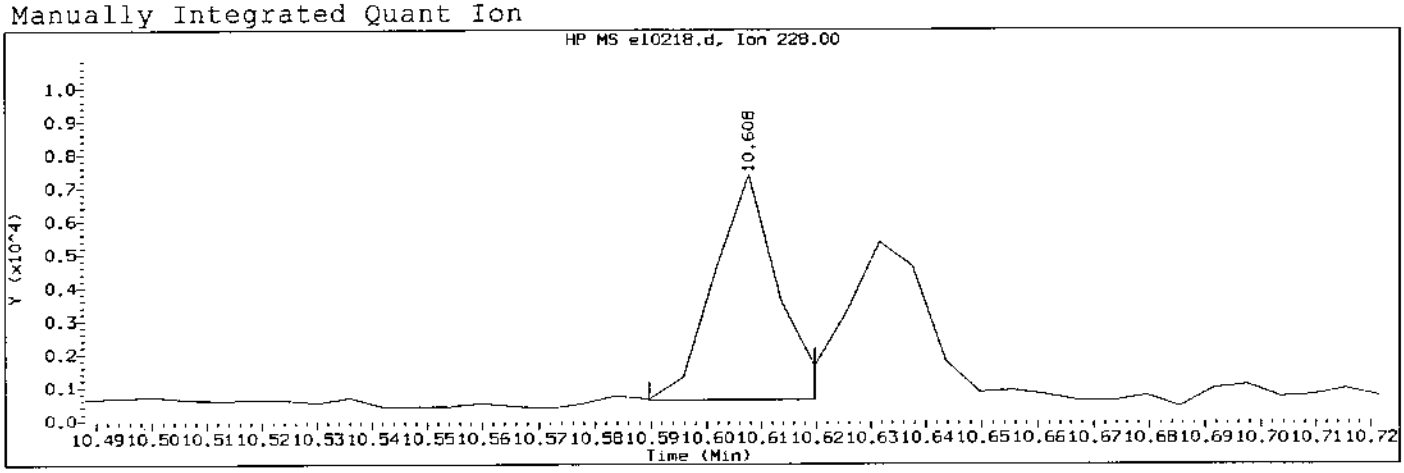
PCH89 8485

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 166		
Compound Name	: Benzo(a)anthracene		
Scan Number	: 1559		
Retention Time (minutes)	: 10.608		
Quant Ion	: 228.00		
Area (flag)	: 5545M		
On-column Amount (ng/ul)	: 0.2826		
Integration start scan	: 1555	Integration stop scan:	1560
Y at integration start	: 606	Y at integration end:	606

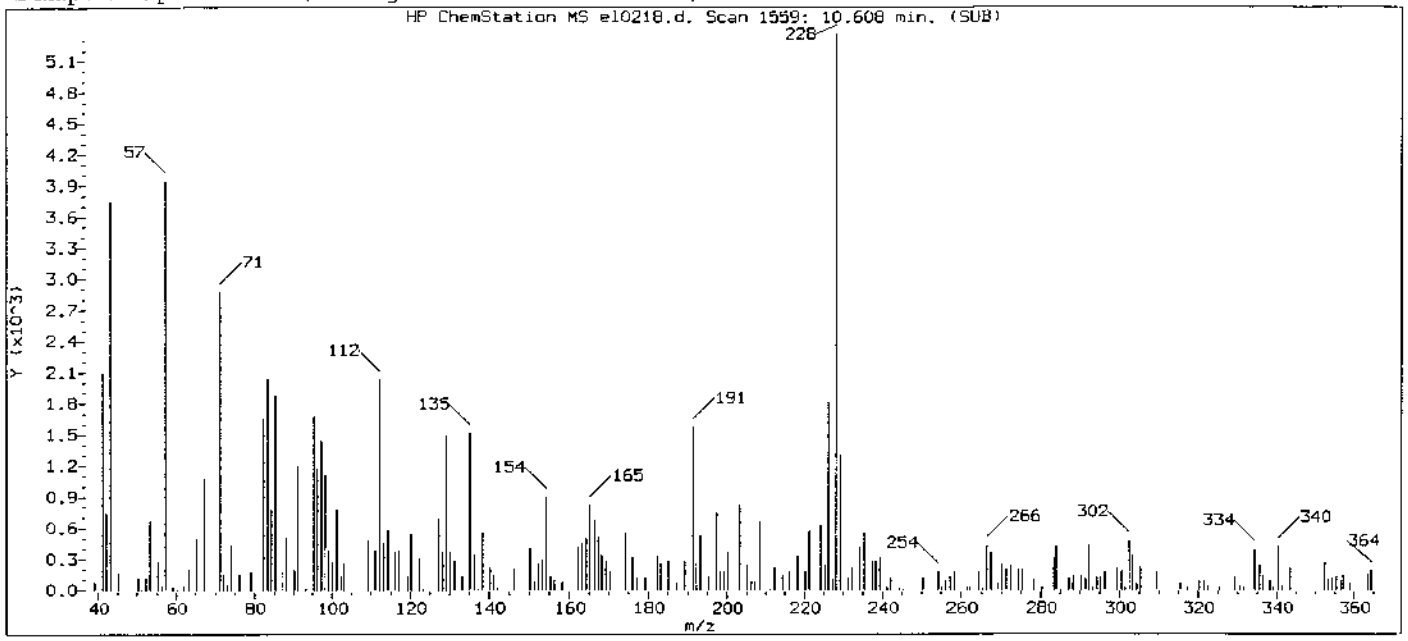
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

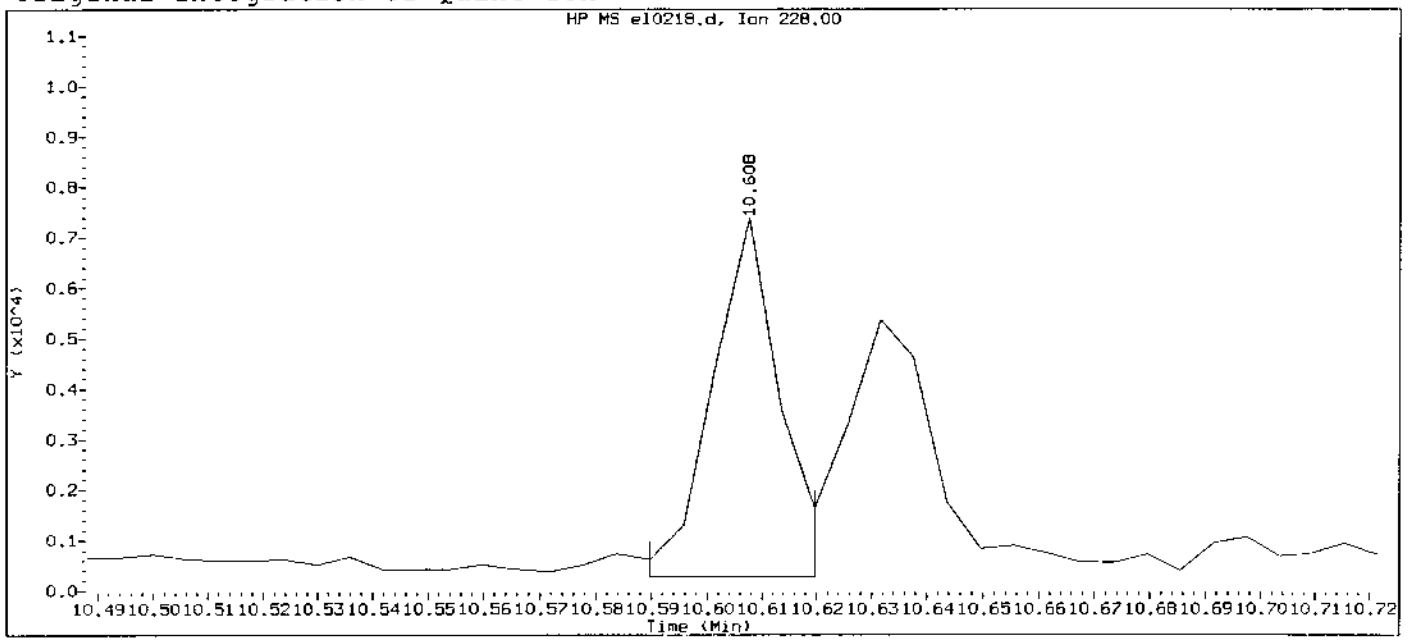
PCH69 3486

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:03 Automation

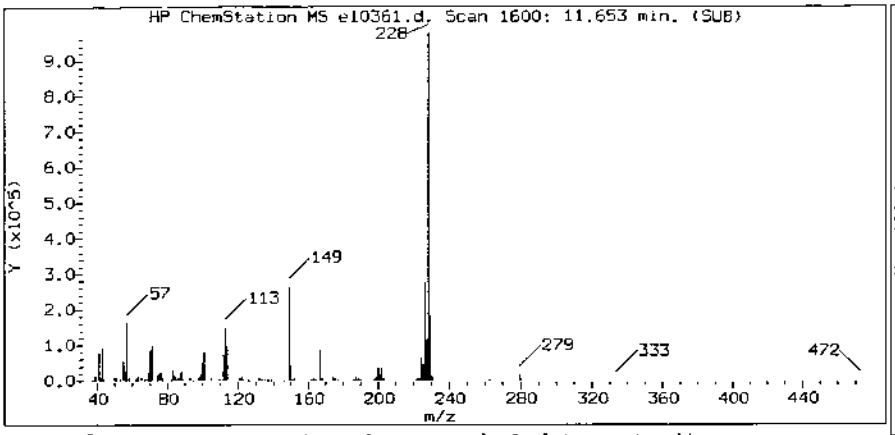
Sample Name: XXXXX Lab Sample ID: 6477568

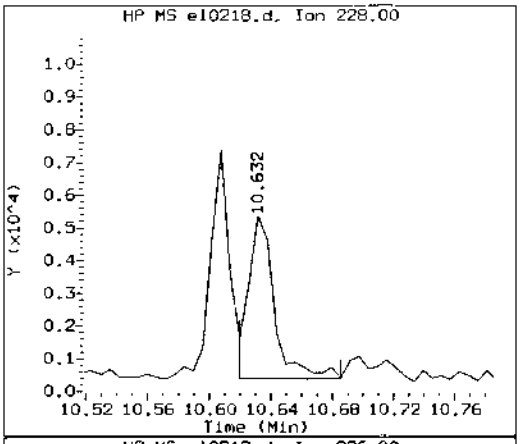
Compound Number	: 166		
Compound Name	: Benzo(a)anthracene		
Scan Number	: 1559		
Retention Time (minutes)	: 10.608		
Quant Ion	: 228.00		
Area	: 5938		
On-column Amount (ng/ul)	: 0.3027		
Integration start scan	: 1555	Integration stop scan:	1560
Y at integration start	: 285	Y at integration end:	280

PCH09 8487

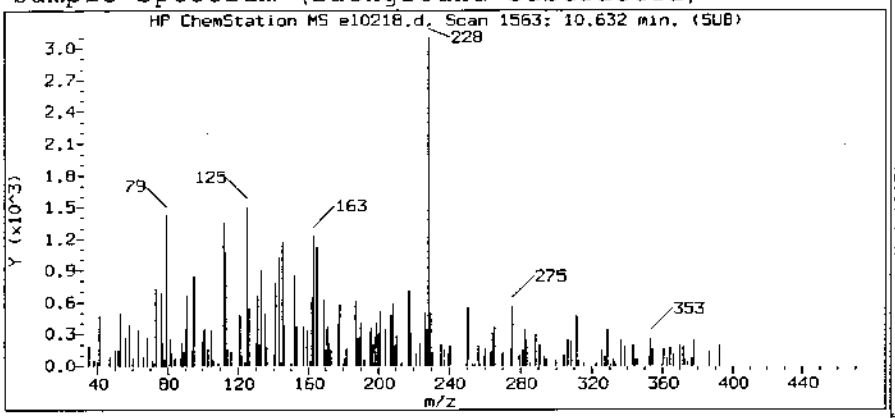
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

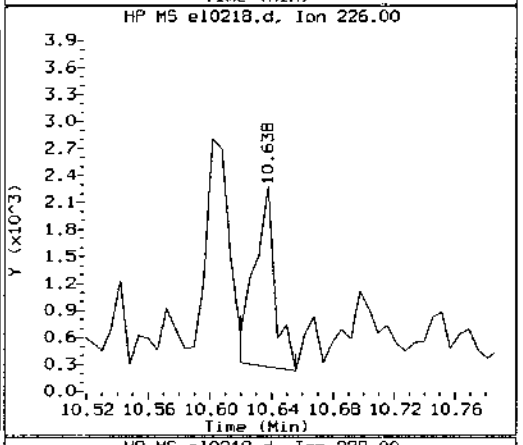
Reference Standard Spectrum for Chrysene



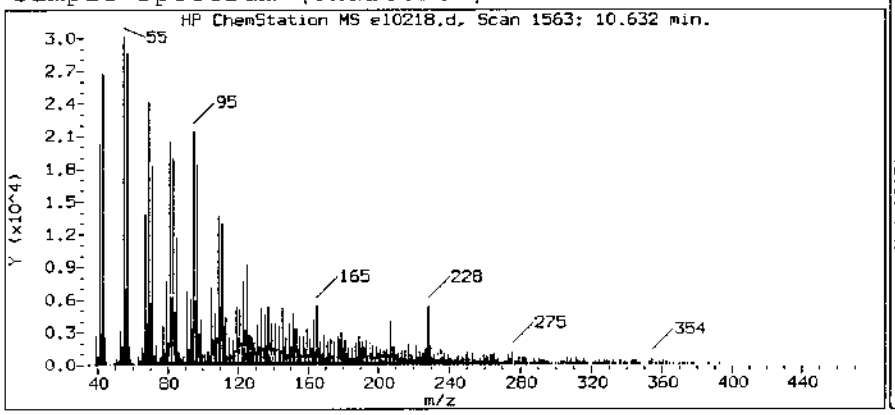


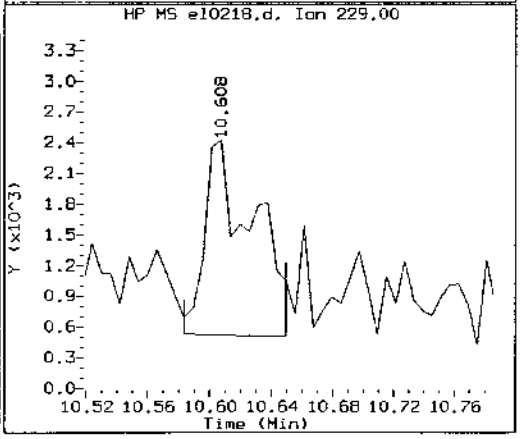
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

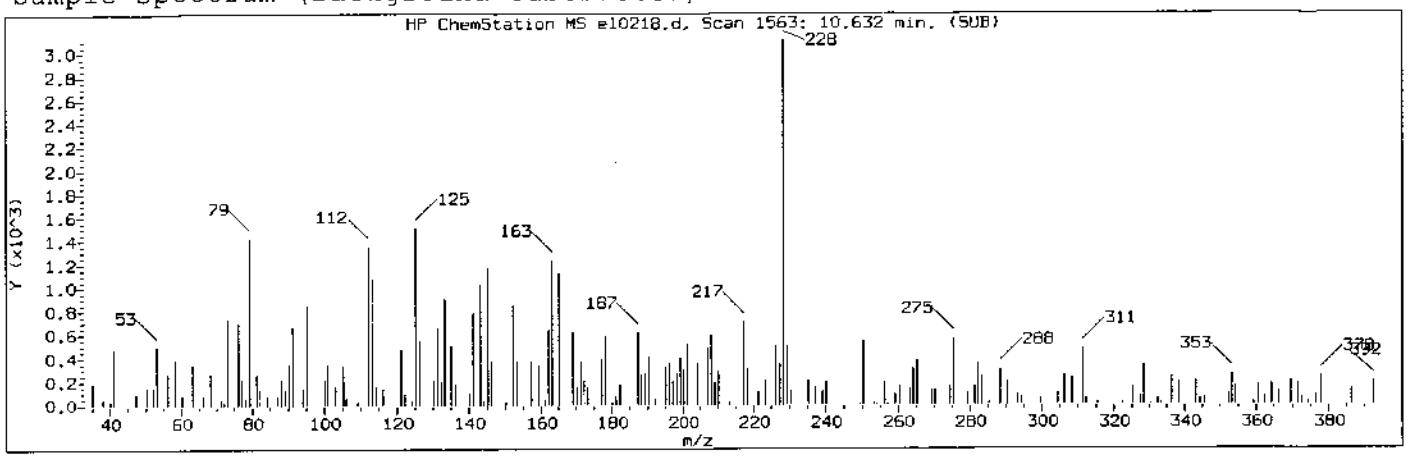
Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 168
Compound Name	: Chrysene
Scan Number	: 1563
Retention Time (minutes)	: 10.632
Relative Retention Time	: 0.00062
Quant Ion	: 228.00
Area (flag)	: 5995M
On-column Amount (ng/ul)	: 0.2963

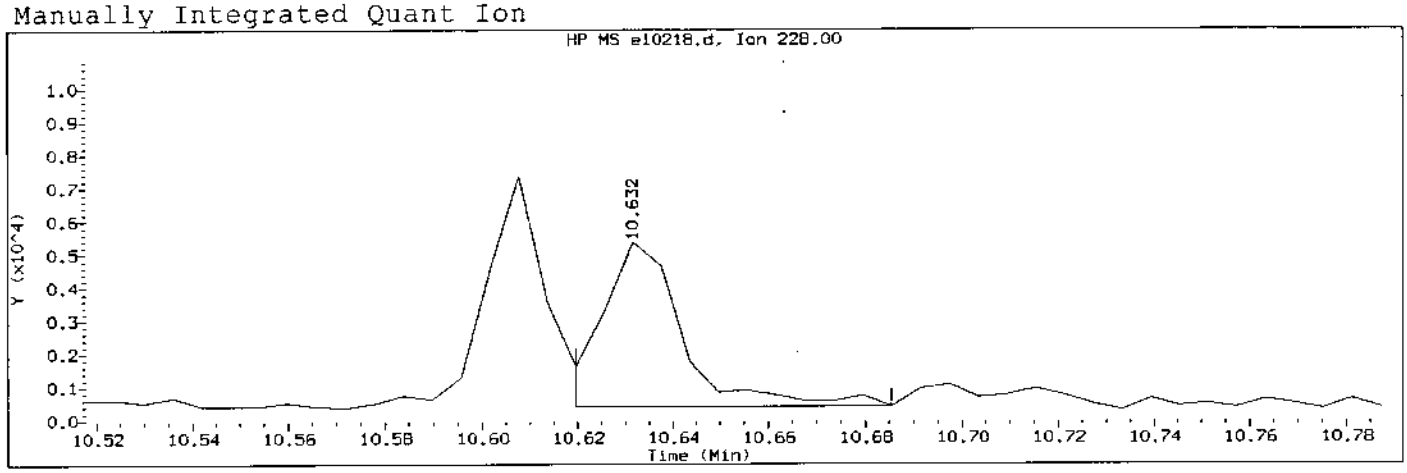
PCH09 8488

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 168		
Compound Name	: Chrysene		
Scan Number	: 1563		
Retention Time (minutes)	: 10.632		
Quant Ion	: 228.00		
Area (flag)	: 5995M		
On-column Amount (ng/ul)	: 0.2963		
Integration start scan	: 1560	Integration stop scan:	1571
Y at integration start	: 397	Y at integration end:	397

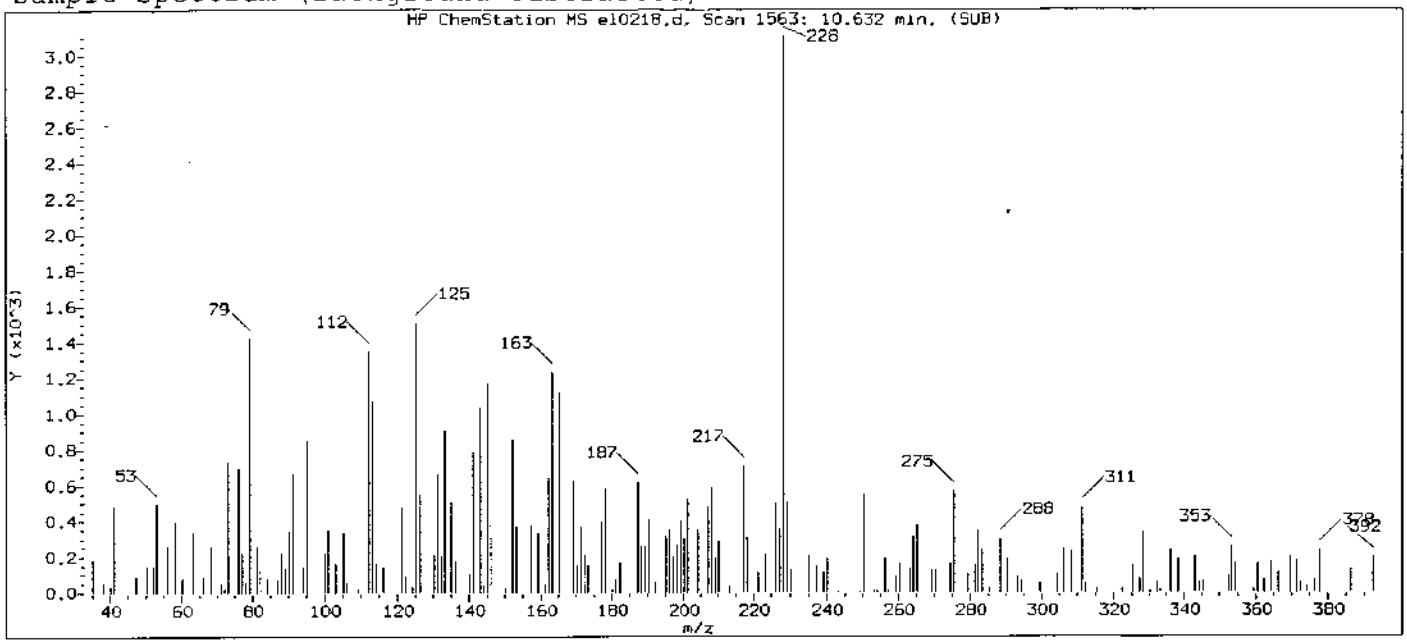
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36. Target 3.5 esignature user ID: jrr02820

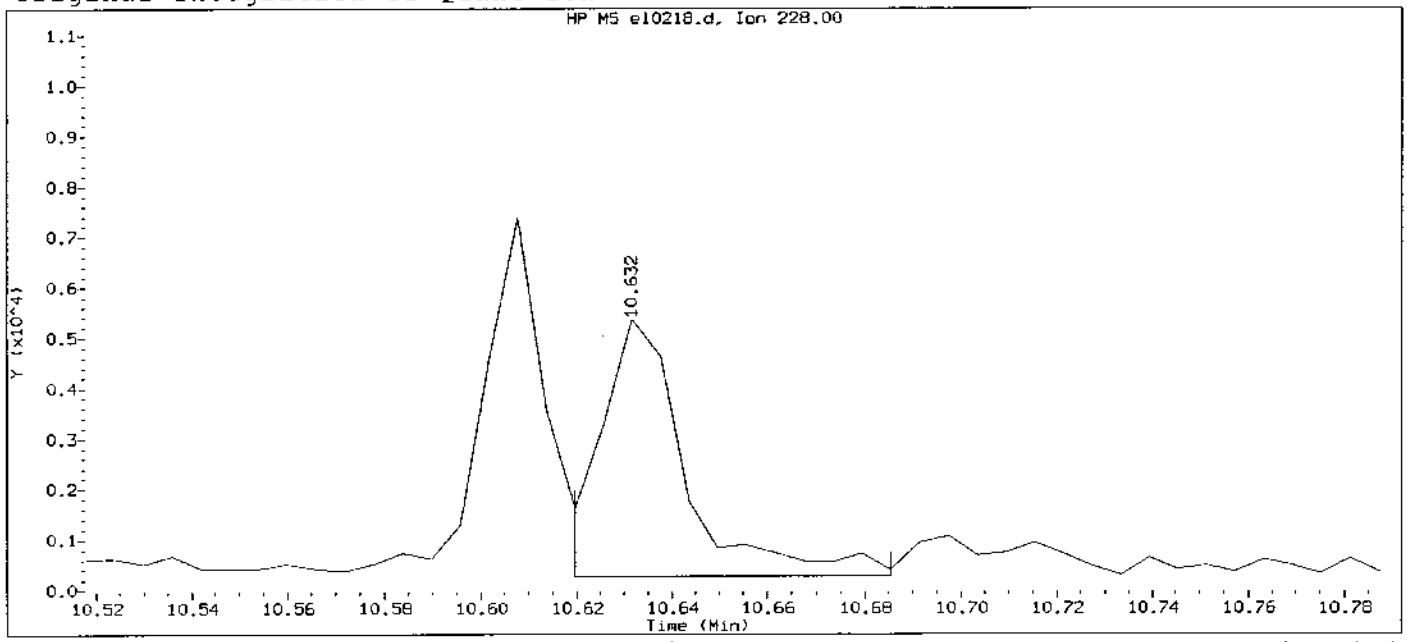
PCH89 8489

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:03 Automation

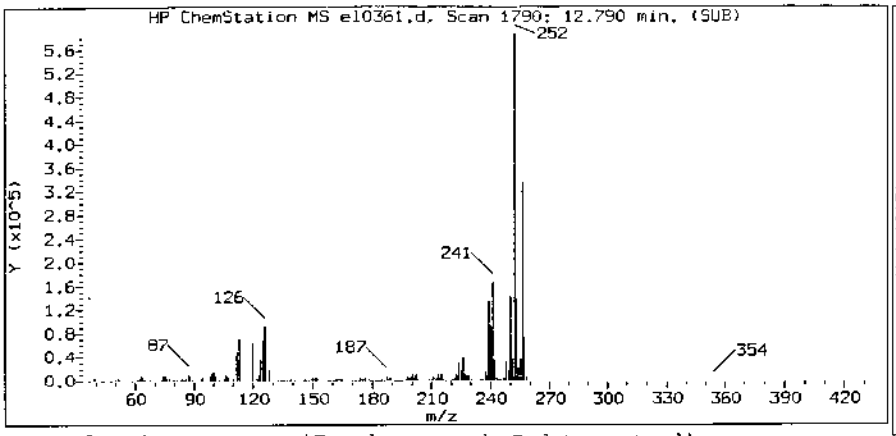
Sample Name: XXXXX Lab Sample ID: 6477568

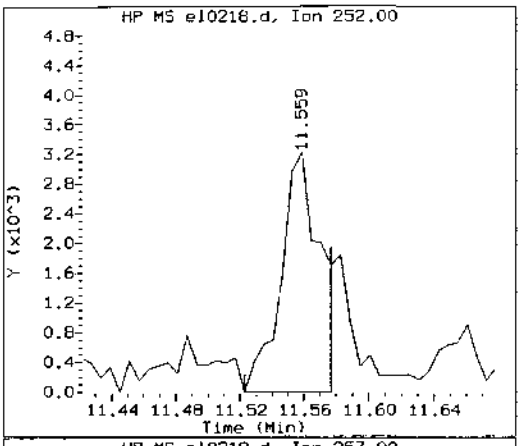
Compound Number	: 168
Compound Name	: Chrysene
Scan Number	: 1563
Retention Time (minutes)	: 10.632
Quant Ion	: 228.00
Area	: 6244
On-column Amount (ng/ul)	: 0.3086
Integration start scan	: 1560
Integration stop scan	: 1571
Y at integration start	: 280
Y at integration end	: 275

PCH69 9498

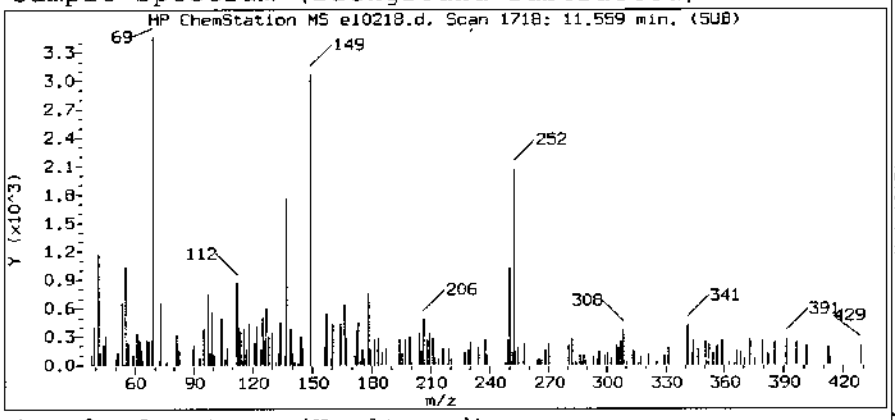
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

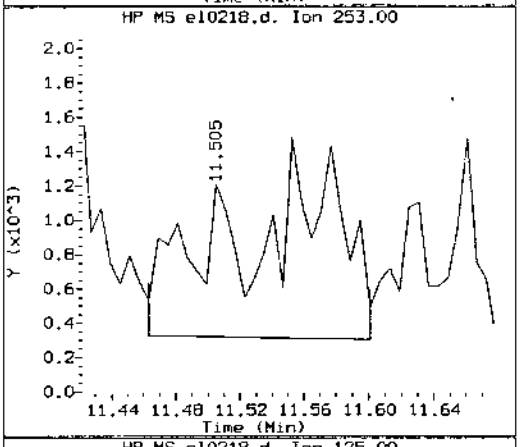
Reference Standard Spectrum for Benzo(b)fluoranthene



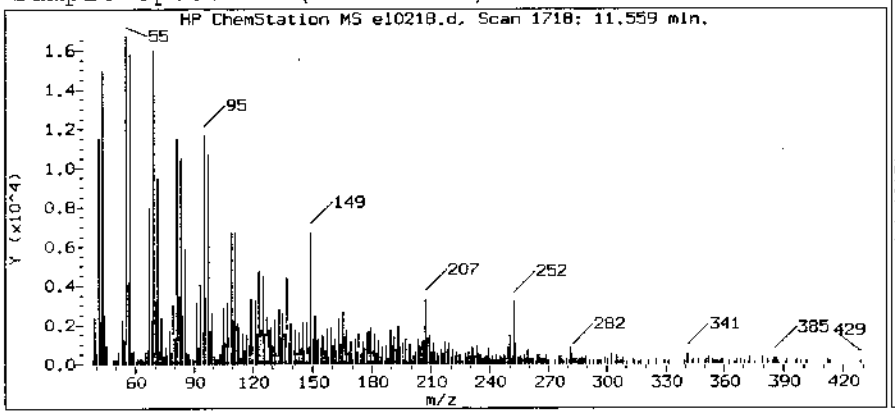


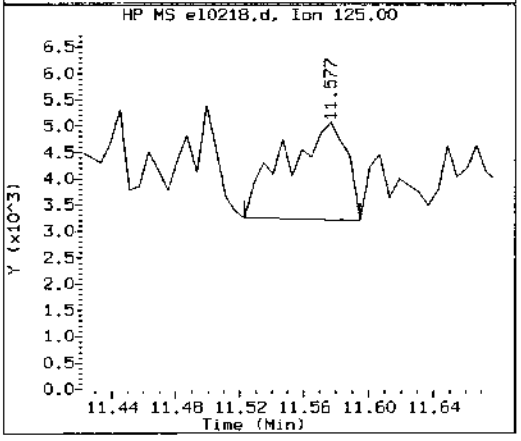
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0218.d
Injection date and time: 05-DEC-2011 15:40

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

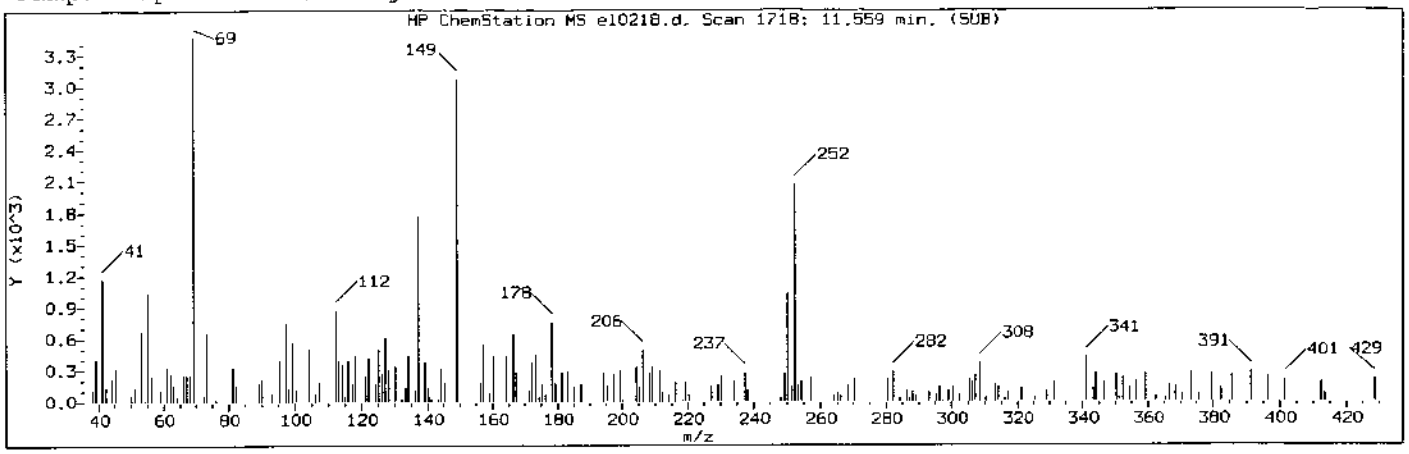
Lab Sample ID: 6477568

Compound Number	: 172
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1718
Retention Time (minutes)	: 11.559
Relative Retention Time	: 0.00049
Quant Ion	: 252.00
Area (flag)	: 5502M
On-column Amount (ng/ul)	: 0.3018

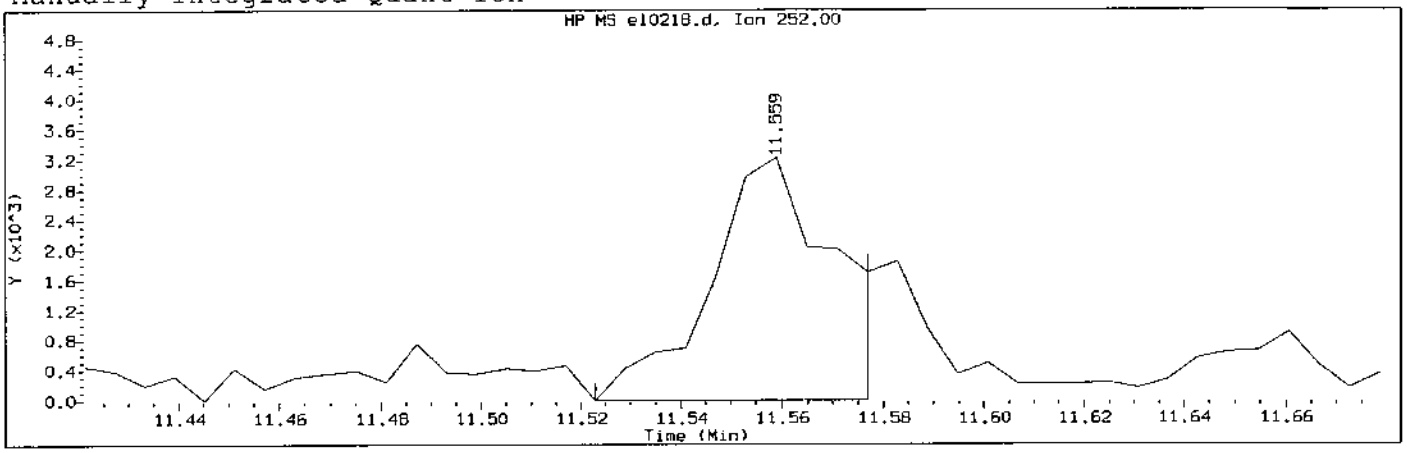
PCH09 8491

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1718
Retention Time (minutes) : 11.559
Quant Ion : 252.00
Area (flag) : 5502M
On-column Amount (ng/ul) : 0.3018
Integration start scan : 1711 Integration stop scan: 1720
Y at integration start : 0 Y at integration end: 0

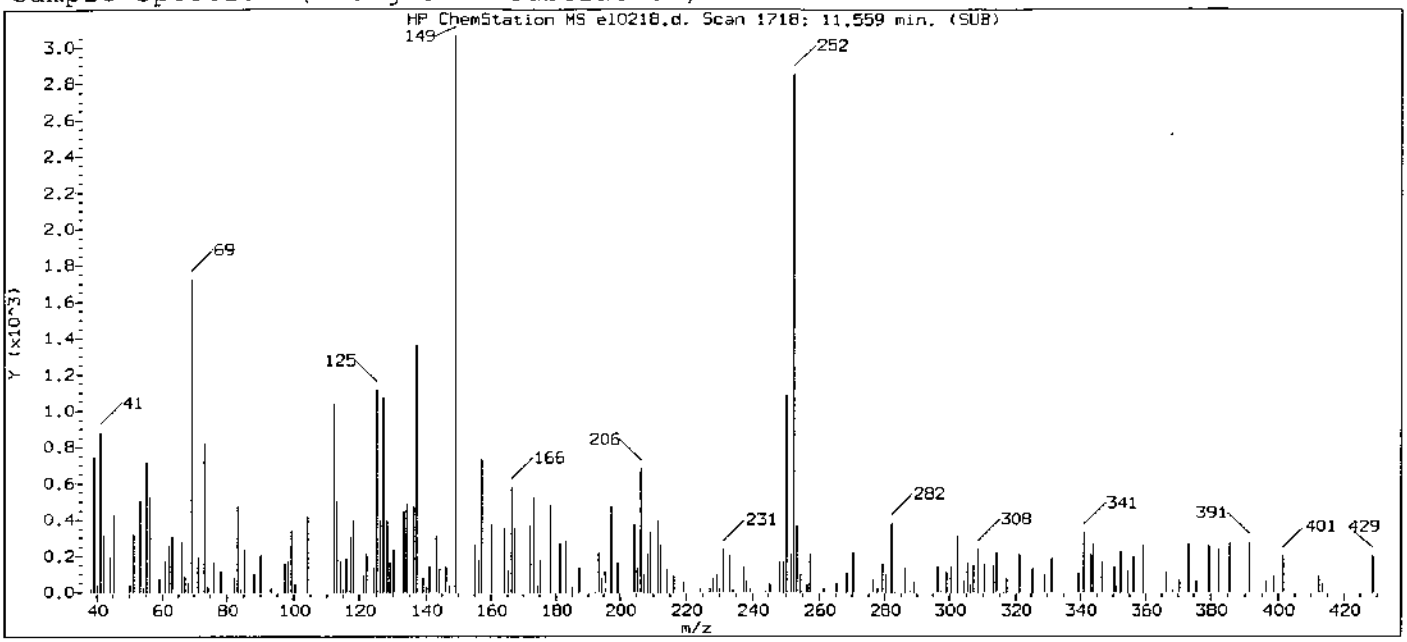
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 16:36
Target 3.5 esignature user ID: jrr02820

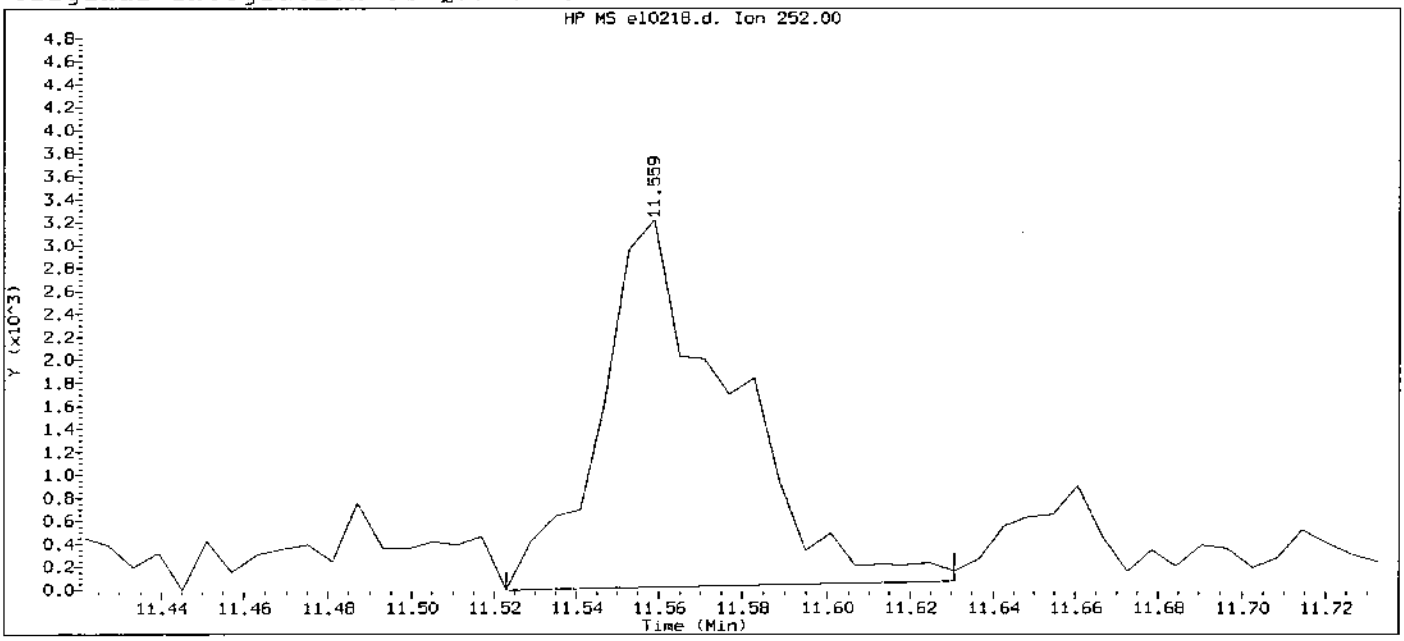
PCH89 8492

Secondary review performed and digitally signed by Christine M. Ratcliffon 12/07/2011 at 12:42
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:03 Automation

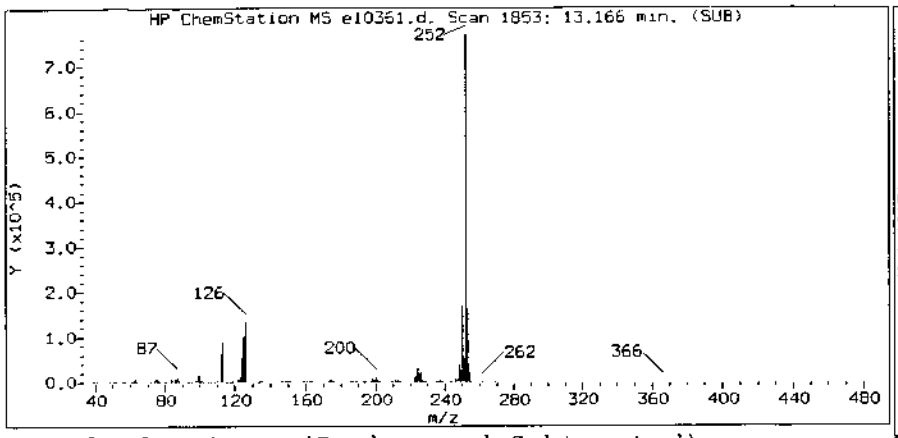
Sample Name: XXXXX Lab Sample ID: 6477568

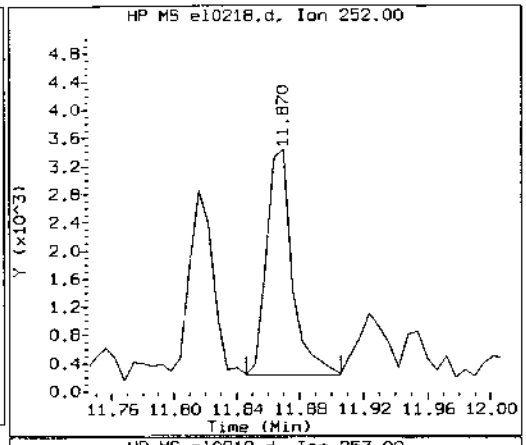
Compound Number	:	172
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1718
Retention Time (minutes)	:	11.559
Quant Ion	:	252.00
Area	:	6910
On-column Amount (ng/ul)	:	0.3790
Integration start scan	:	1711
Integration stop scan	:	1729
Y at integration start	:	0
Y at integration end	:	75

PCH09 8493

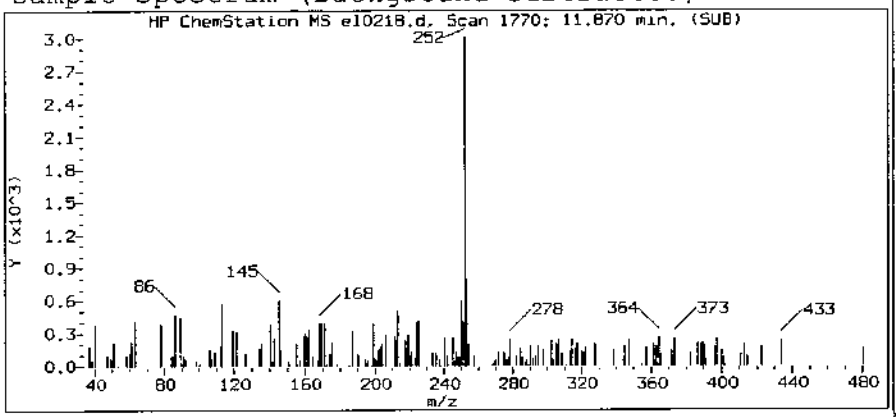
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

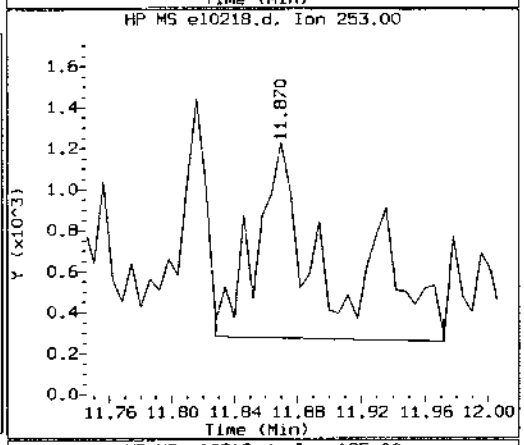
Reference Standard Spectrum for Benzo(a)pyrene



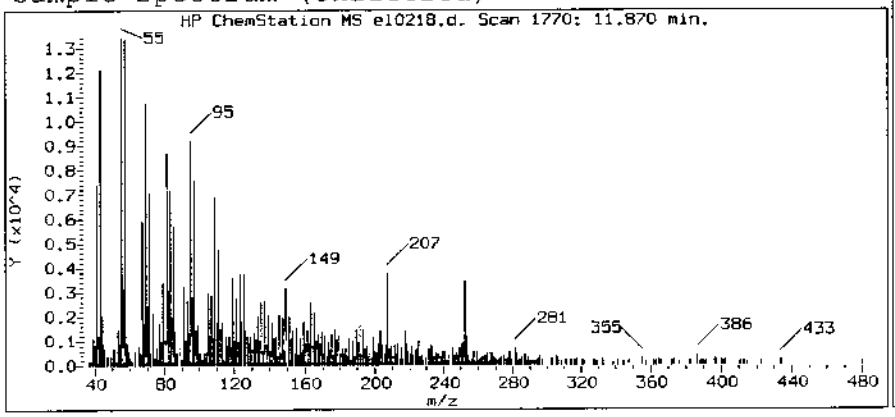


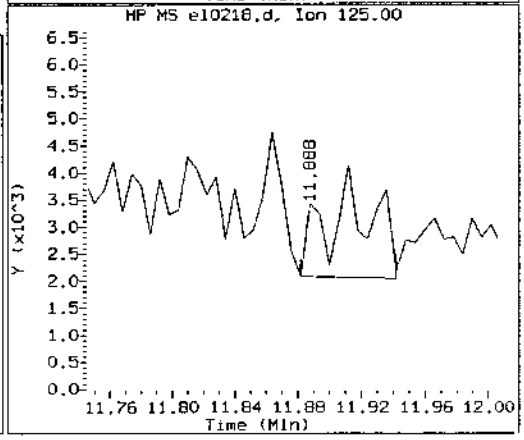
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10218.d
Injection date and time: 05-DEC-2011 15:40

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55

Sublist used: WPAH0826

Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX

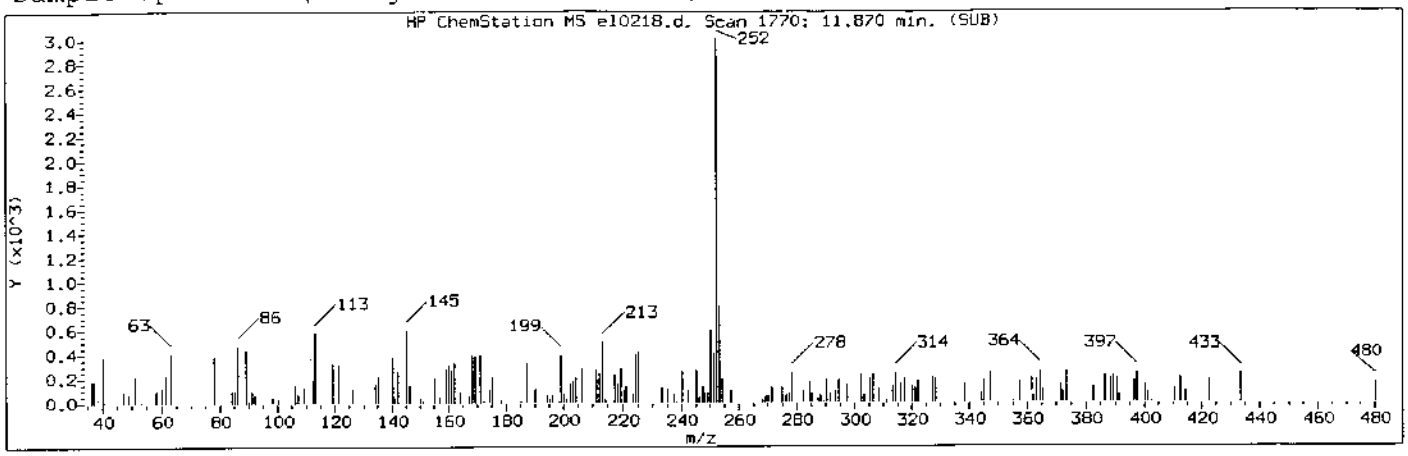
Lab Sample ID: 6477568

Compound Number	: 174
Compound Name	: Benzo(a)pyrene
Scan Number	: 1770
Retention Time (minutes)	: 11.870
Relative Retention Time	: 0.00050
Quant Ion	: 252.00
Area (flag)	: 3602M
On-column Amount (ng/ul)	: 0.2232

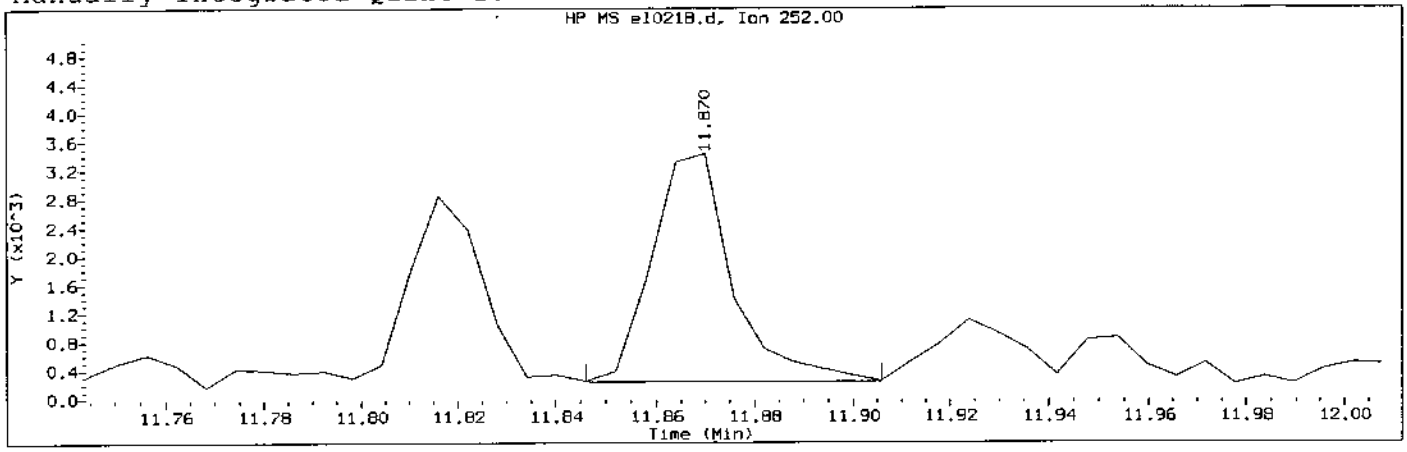
PCH09 0494

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 174		
Compound Name	: Benzo(a)pyrene		
Scan Number	: 1770		
Retention Time (minutes)	: 11.870		
Quant Ion	: 252.00		
Area (flag)	: 3602M		
On-column Amount (ng/ul)	: 0.2232		
Integration start scan	: 1765	Integration stop scan:	1775
Y at integration start	: 236	Y at integration end:	236

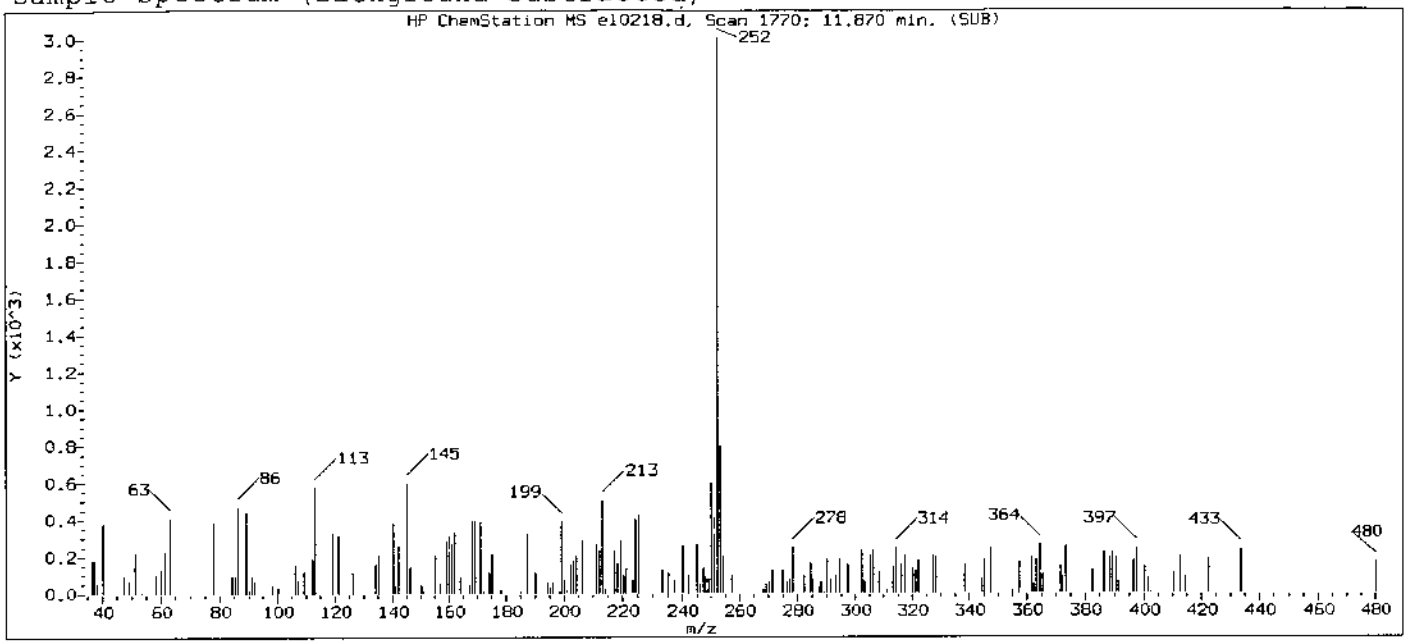
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36. Target 3.5 esignature user ID: jrr02820

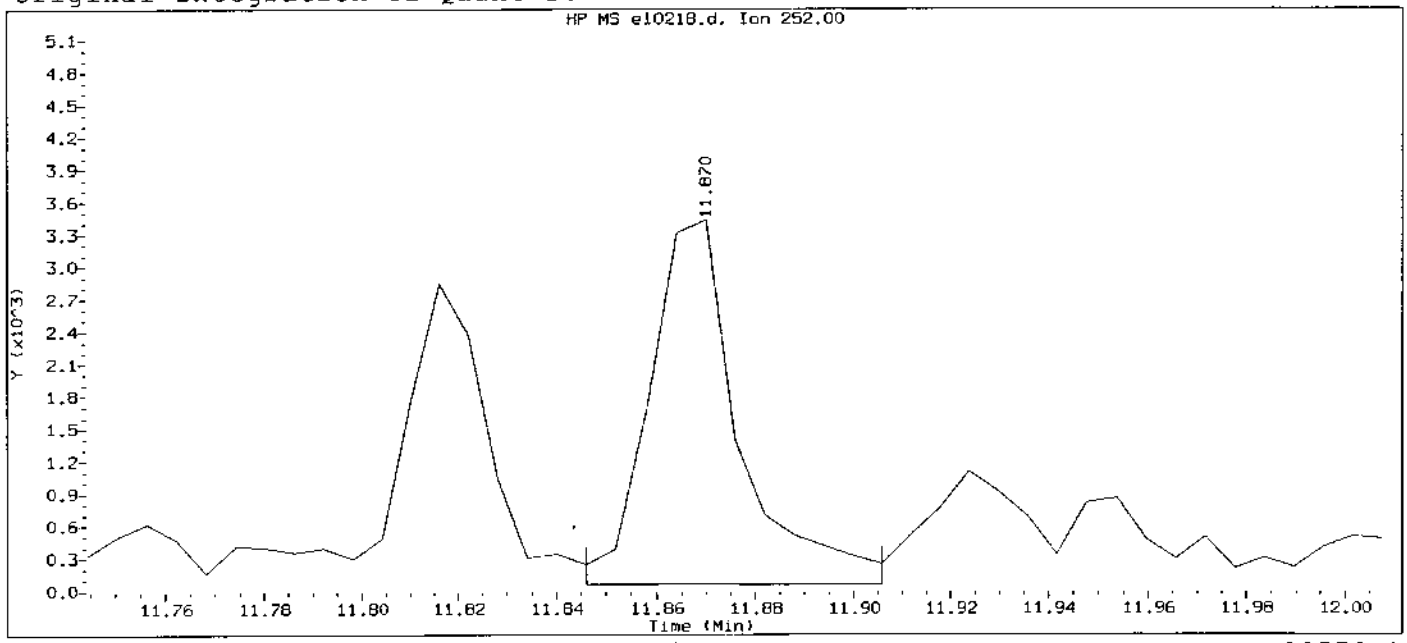
PCH09 8495

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:03 Automation

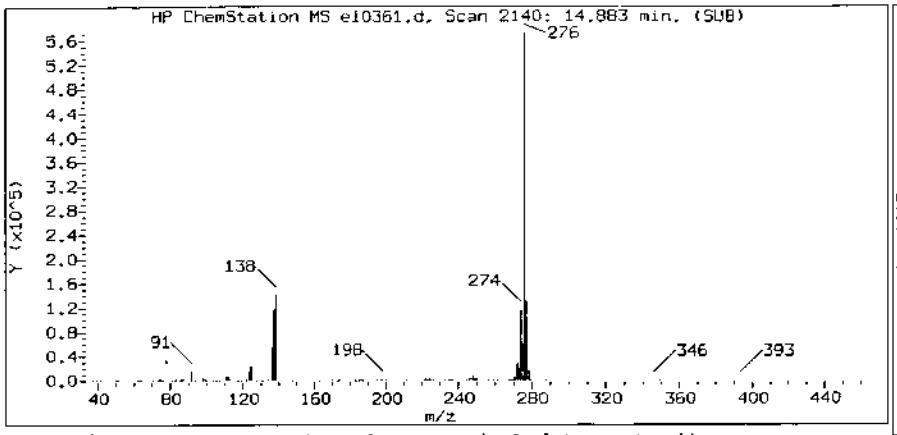
Sample Name: XXXXX Lab Sample ID: 6477568

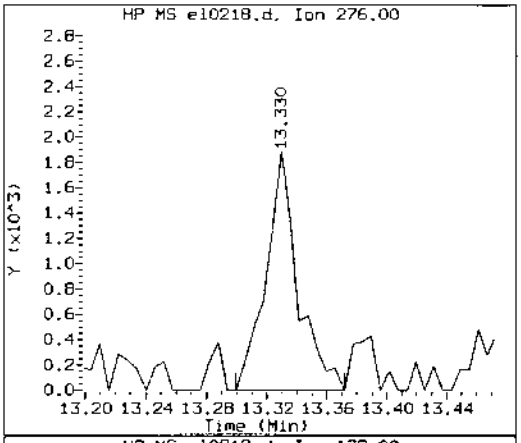
Compound Number	: 174		
Compound Name	: Benzo(a)pyrene		
Scan Number	: 1770		
Retention Time (minutes)	: 11.870		
Quant Ion	: 252.00		
Area	: 4247		
On-column Amount (ng/ul)	: 0.2632		
Integration start scan	: 1765	Integration stop scan:	1775
Y at integration start	: 57	Y at integration end:	54

PCH89 0496

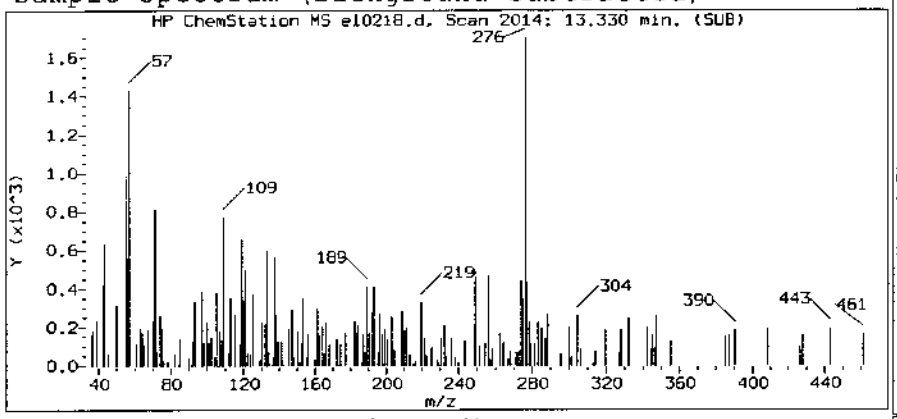
Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

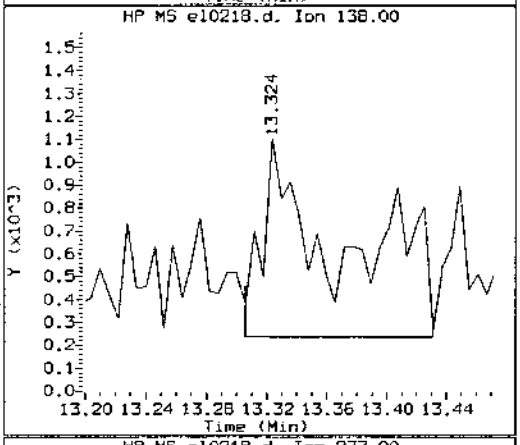
Reference Standard Spectrum for Benzo(g,h,i)perylene



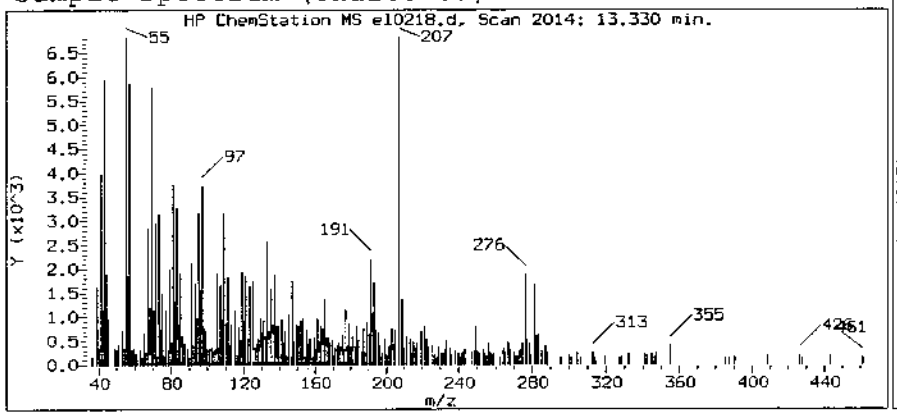


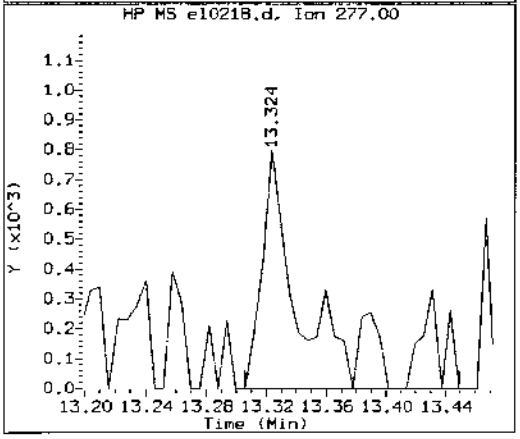
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

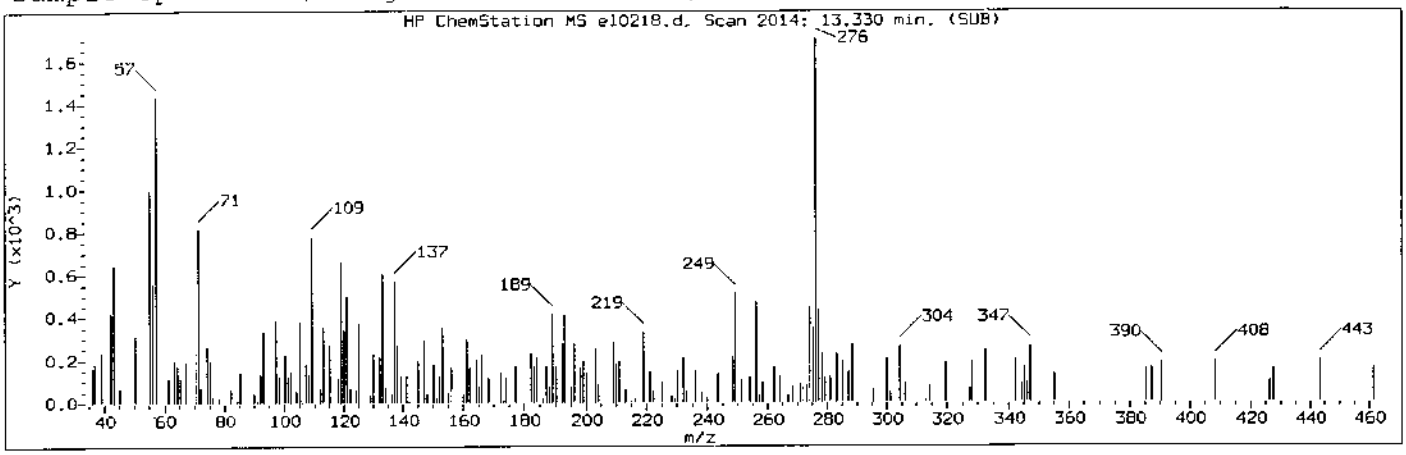
Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 179
Compound Name	: Benzo(g,h,i)perylene
Scan Number	: 2014
Retention Time (minutes)	: 13.330
Relative Retention Time	: 0.00106
Quant Ion	: 276.00
Area (flag)	: 2776M
On-column Amount (ng/ul)	: 0.1945

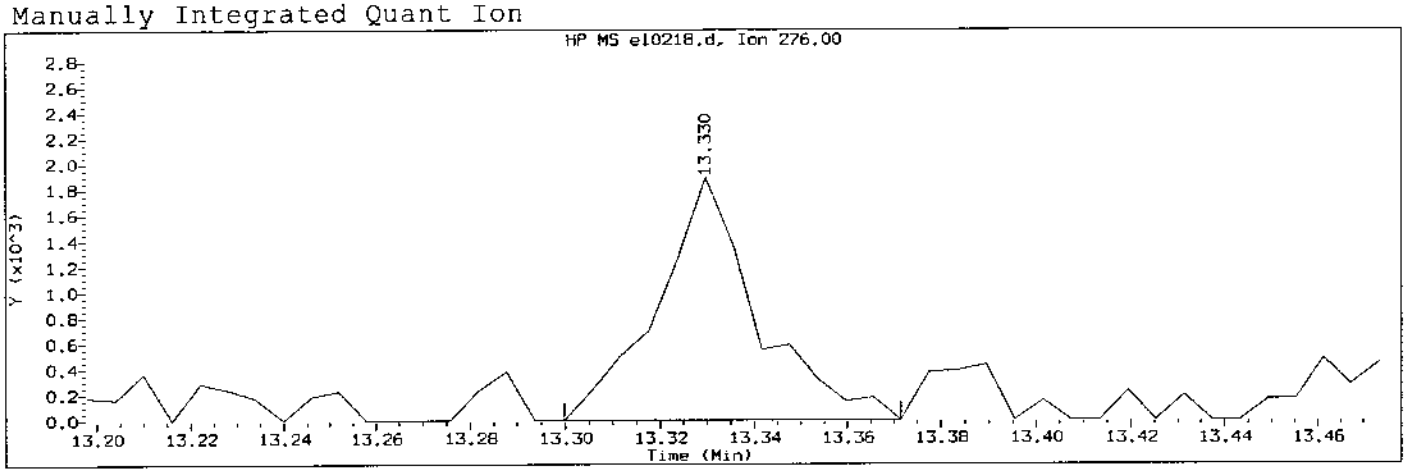
PCH09 8497

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:30 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 179		
Compound Name	: Benzo(g,h,i)perylene		
Scan Number	: 2014		
Retention Time (minutes)	: 13.330		
Quant Ion	: 276.00		
Area (flag)	: 2776M		
On-column Amount (ng/ul)	: 0.1945		
Integration start scan	: 2008	Integration stop scan:	2020
Y at integration start	: 0	Y at integration end:	0

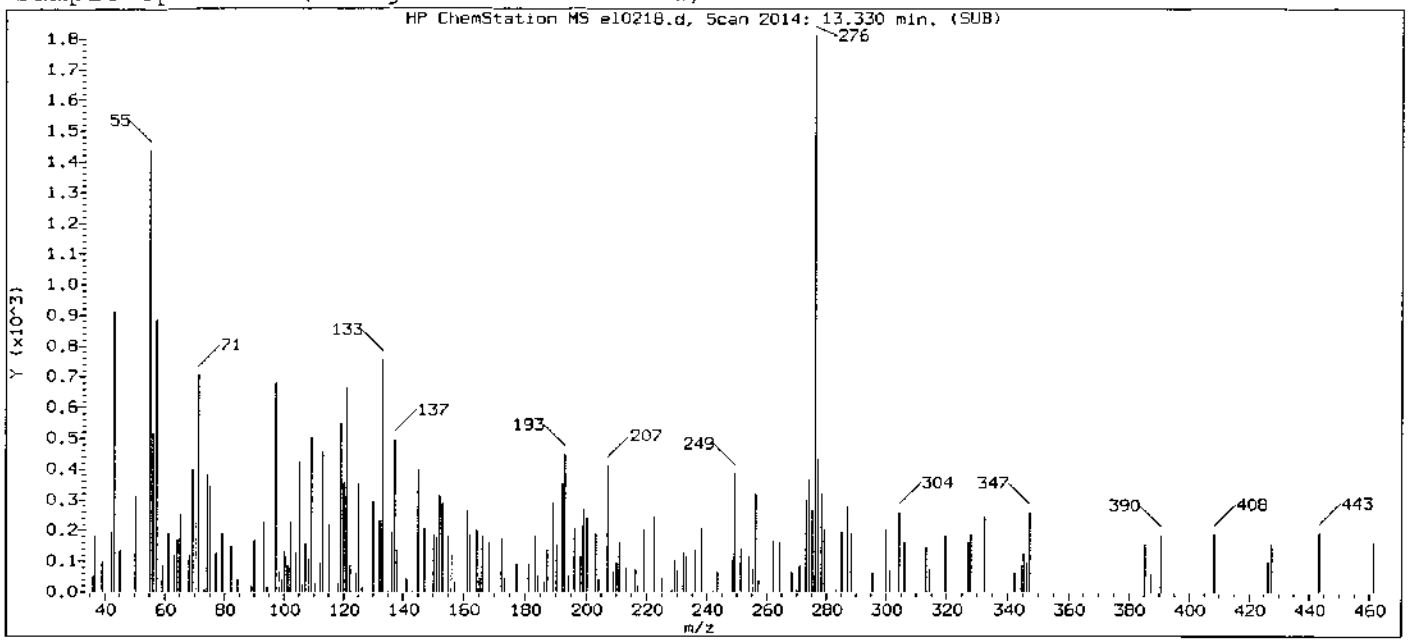
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36. Target 3.5 esignature user ID: jrr02820

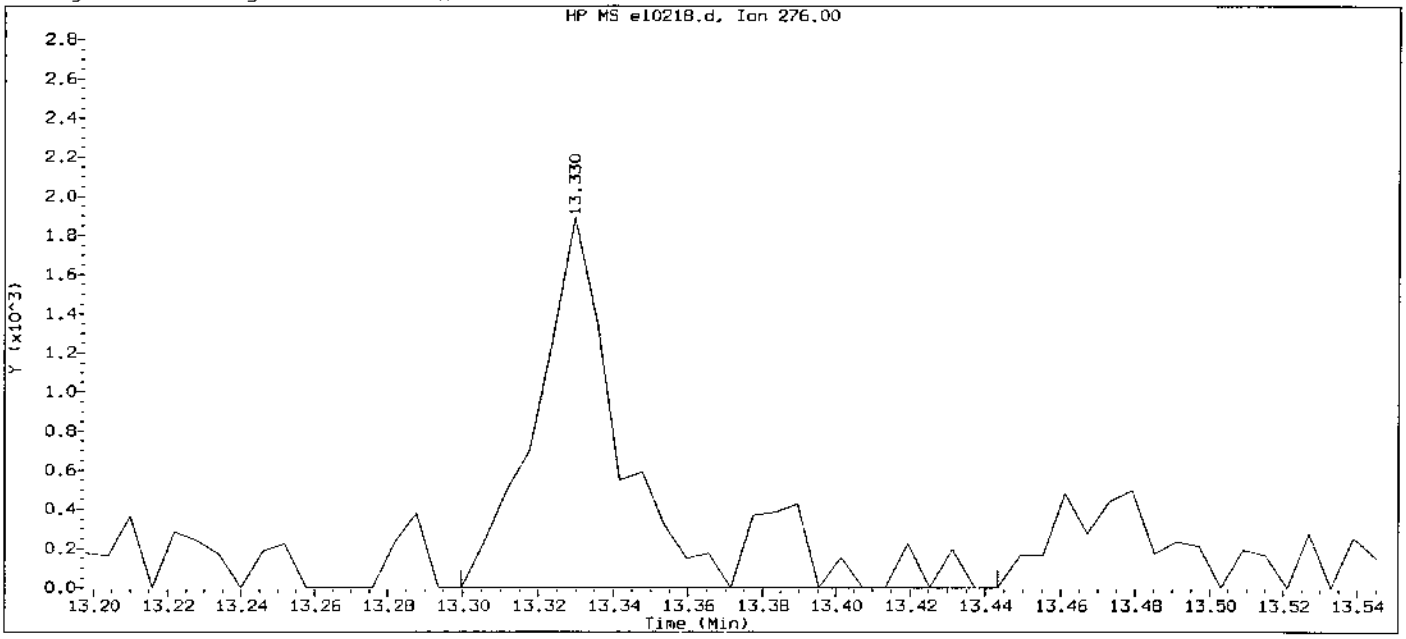
PCH09 8498

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
ParaDigm ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10218.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 15:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newal11
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:03 Automation

Sample Name: XXXXX Lab Sample ID: 6477568

Compound Number	: 179		
Compound Name	: Benzo(g,h,i)perylene		
Scan Number	: 2014		
Retention Time (minutes)	: 13.330		
Quant Ion	: 276.00		
Area	: 3408		
On-column Amount (ng/ul)	: 0.2388		
Integration start scan	: 2008	Integration stop scan:	2032
Y at integration start	: 0	Y at integration end:	0

PCB#9: 8499

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 16:36.
Target 3.5 esignature user ID: jrr02820

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT9D

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477569

Sample wt/vol: 1003 (g/mL)ML Lab File ID: el0219.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ	UG/L	Q
91-20-3	Naphthalene		0.5	U
208-96-8	Acenaphthylene		0.1	J
83-32-9	Acenaphthene		0.5	U
86-73-7	Fluorene		0.2	J
85-01-8	Phenanthrene		0.4	J
120-12-7	Anthracene		0.2	J
206-44-0	Fluoranthene		0.4	J
129-00-0	Pyrene		0.6	
56-55-3	Benzo(a)anthracene		0.2	J
218-01-9	Chrysene		0.3	J
205-99-2	Benzo(b)fluoranthene		0.3	J
207-08-9	Benzo(k)fluoranthene		0.2	J
50-32-8	Benzo(a)pyrene		0.2	J
193-39-5	Indeno(1,2,3-cd)pyrene		0.1	J
53-70-3	Dibenz(a,h)anthracene		0.5	U
191-24-2	Benzo(g,h,i)perylene		0.2	J

PCH89 8588

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477569

Data file: /chem/HP09572.i/11dec05.b/el0219.d
Data file Sample Info. Line: XXXXX;6477569;
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Injection date and time: **05-DEC-2011 16:04**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1003 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	4.625	(-0.006)	559	152	84546	(-16)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	377821	(-20)	20.00	
98) Acenaphthene-d10	7.264	(0.000)	1000	164	246648	(-20)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	418675	(-21)	20.00	
167) Pyrene-d10	9.615	(0.000)	1393	212	460956	(-28)	20.00	
175) Perylene-d12	11.924	(0.000)	1779	264	303645	(-32)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	629512	76.746	77%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731	(0.000)	172	1272635	85.266	85%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1184286	85.172	85%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)				Not Detected					0.1
95) Acenaphthylene	(3)	7.150	(0.000)	152	2746M	0.134	0.13			0.1
99) Acenaphthene	(3)				Not Detected					0.1
111) Fluorene	(3)	7.712	(0.000)	166	2808M	0.171	0.17			0.1
137) Phenanthrene	(4)	8.490	(-0.000)	178	9193	0.384	0.38			0.1
138) Anthracene	(4)	8.532	(-0.000)	178	3891	0.165	0.16			0.1
147) Fluoranthene	(4)	9.453	(-0.000)	202	10287	0.446	0.44			0.1
154) Pyrene	(5)	9.632	(-0.000)	202	16209M	0.643	0.64			0.1
166) Benzo(a)anthracene	(5)	10.602	(0.000)	228	3865M	0.199	0.20			0.1
168) Chrysene	(5)	10.632	(0.000)	228	5846M	0.291	0.29			0.1
172) Benzo(b)fluoranthene	(6)	11.547	(0.001)	252	4568M	0.253	0.25			0.1
173) Benzo(k)fluoranthene	(6)	11.577	(0.001)	252	3547M	0.194	0.19			0.1
174) Benzo(a)pyrene	(6)	11.864	(0.000)	252	3820M	0.239	0.24			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	13.048	(0.000)	276	2301MA	0.139	0.14			0.1
178) Dibenz(a,h)anthracene	(6)				Not Detected					0.1
179) Benzo(g,h,i)perylene	(6)	13.324	(0.001)	276	3419M	0.242	0.24			0.1

M = Compound was manually integrated. A = User selected an alternate peak.

PCH89 8581

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56. Target 3.5 esignature user ID: msw02109

XXXXX Lancaster Labs Analysis Summary for GC/MS Semivolatiles 6477569

Data file: /chem/HP09572.i/11dec05.b/el0219.d
Data file Sample Info. Line: XXXXX;6477569;
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Injection date and time: **05-DEC-2011 16:04**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAE0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1003 ml Volume Injected (Vi): 1 ul

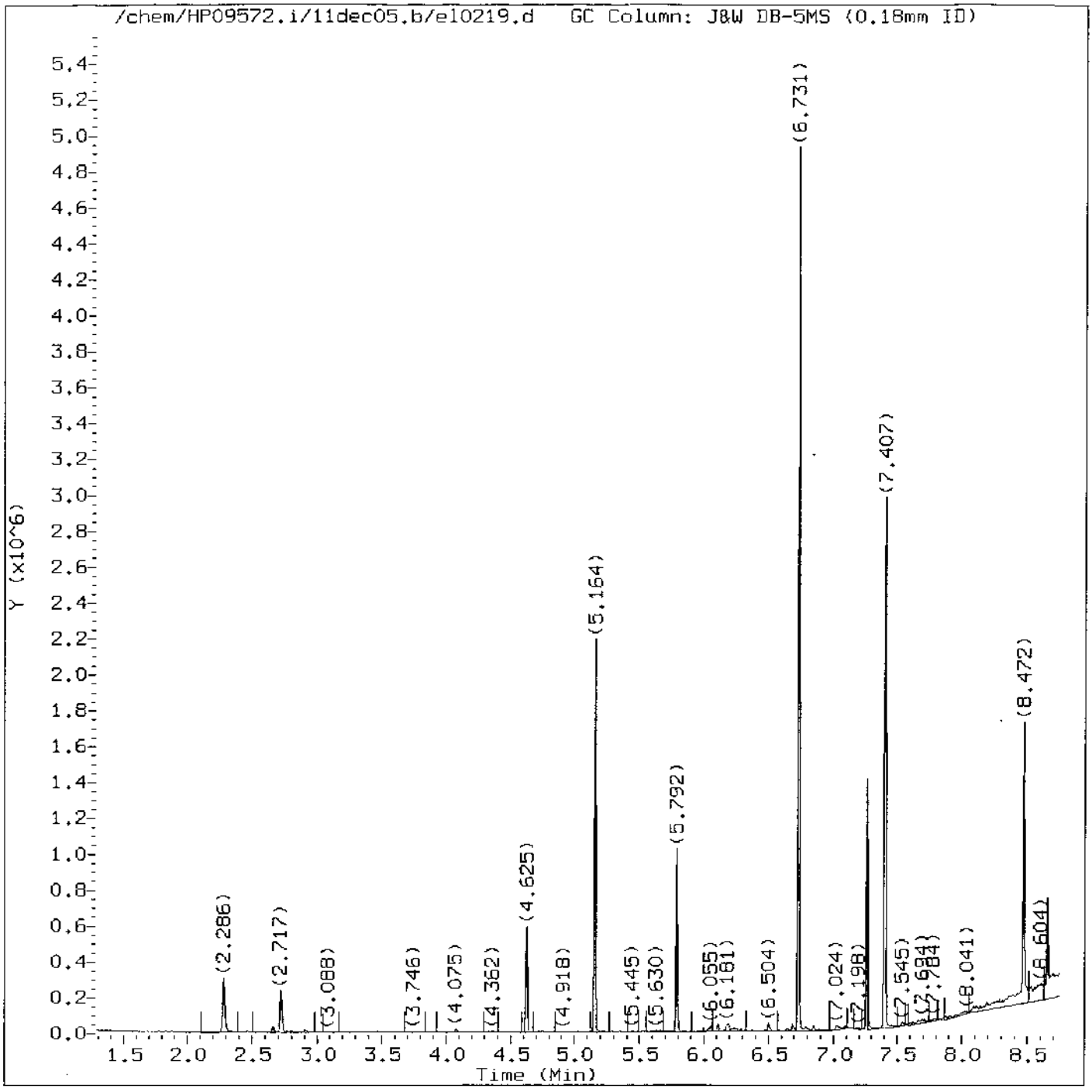
THIS SPACE
WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 16

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56. Target 3.5 esignature user ID: msw02109

PCB87 0582

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59. Parallax ID: rrc00863



Total Ion Chromatogram (TIC)

Target Revision 3.5

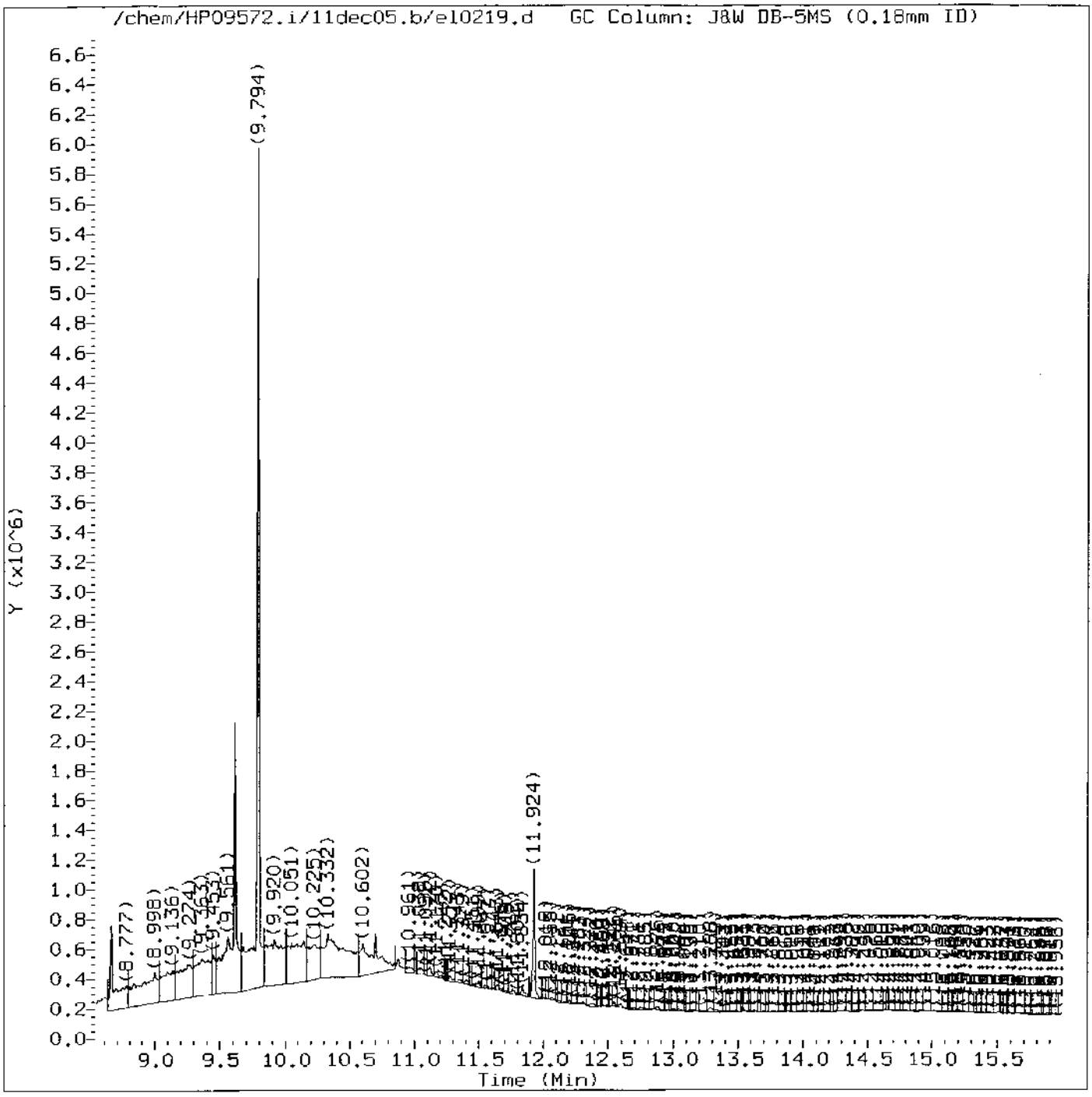
Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

PCH69 0563

Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

PCH89 8584

Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

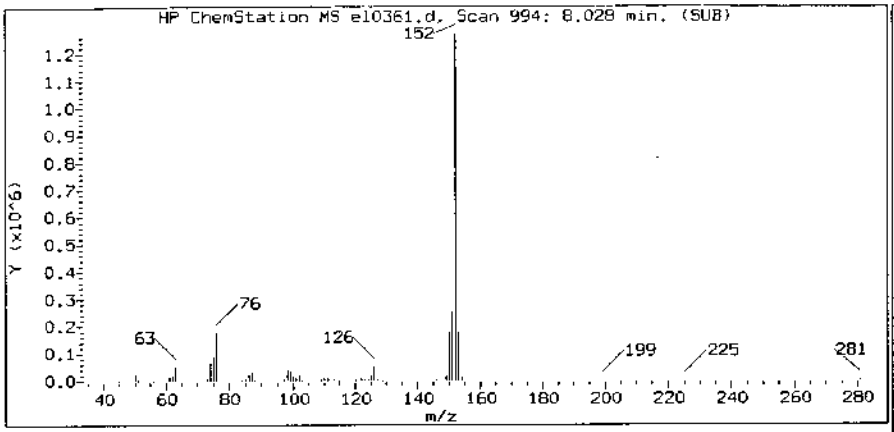
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	84546	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	629512	76.746
52)*Naphthalene-d8	(2)	5.792	136	377821	20.000
78)$2-Fluorobiphenyl	(3)	6.731	172	1272635	85.266
95) Acenaphthylene	(3)	7.150	152	2746M	0.134
98)*Acenaphthene-d10	(3)	7.264	164	246648	20.000
111) Fluorene	(3)	7.712	166	2808M	0.171
135)*Phenanthrene-d10	(4)	8.472	188	418675	20.000
137) Phenanthrene	(4)	8.490	178	9193	0.384
138) Anthracene	(4)	8.532	178	3891	0.165
147) Fluoranthene	(4)	9.453	202	10287	0.446
167)*Pyrene-d10	(5)	9.615	212	460956	20.000
154) Pyrene	(5)	9.632	202	16209M	0.643
156)$Terphenyl-d14	(5)	9.794	244	1184286	85.172
166) Benzo(a)anthracene	(5)	10.602	228	3865M	0.199
168) Chrysene	(5)	10.632	228	5846M	0.291
172) Benzo(b)fluoranthene	(6)	11.547	252	4568M	0.253
173) Benzo(k)fluoranthene	(6)	11.577	252	3547M	0.194
174) Benzo(a)pyrene	(6)	11.864	252	3820M	0.239
175)*Perylene-d12	(6)	11.924	264	303645	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	13.048	276	2301MA	0.139
179) Benzo(g,h,i)perylene	(6)	13.324	276	3419M	0.242

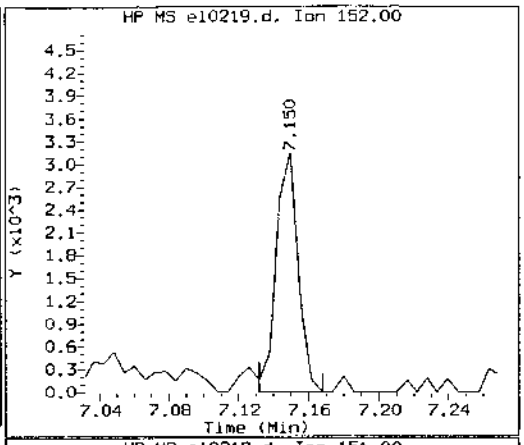
M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PCH09 8585

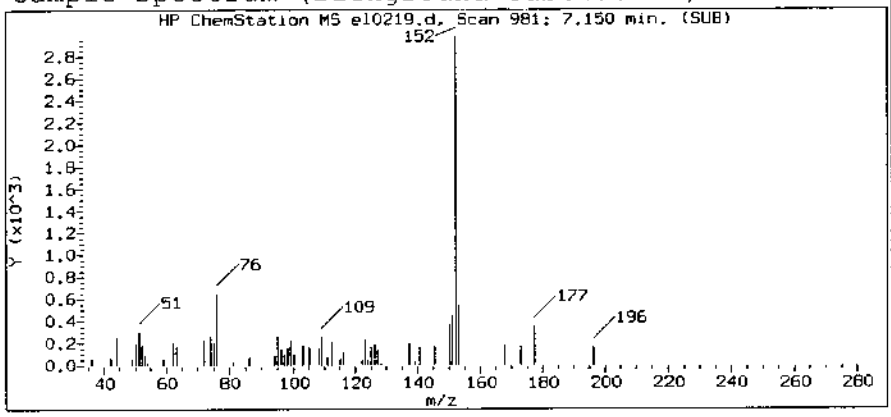
Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

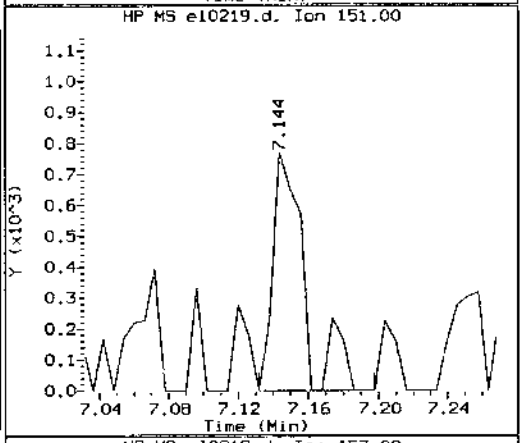
Reference Standard Spectrum for Acenaphthylene



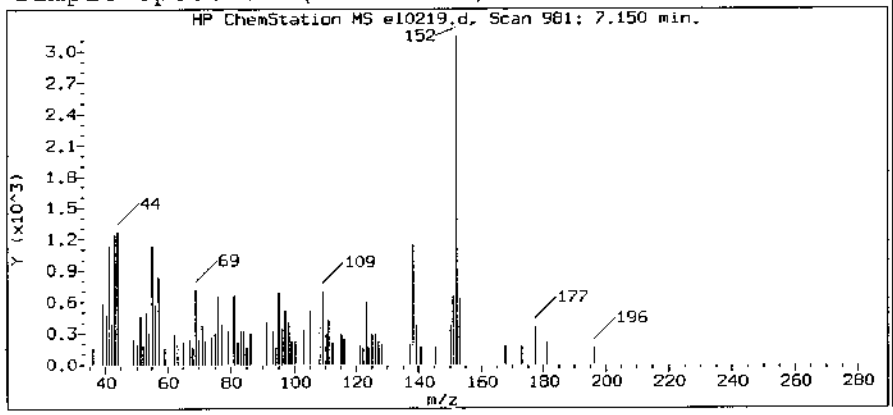


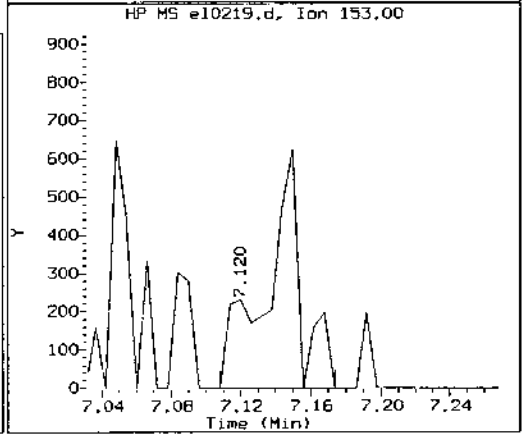
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

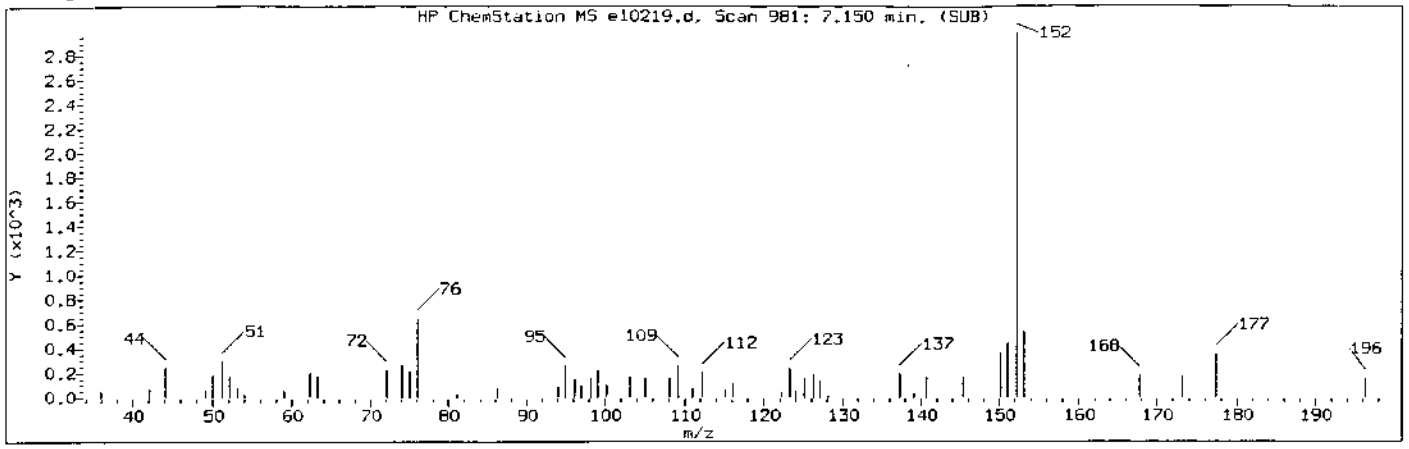
Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 95
Compound Name	: Acenaphthylene
Scan Number	: 981
Retention Time (minutes)	: 7.150
Relative Retention Time	: 0.00000
Quant Ion	: 152.00
Area (flag)	: 2746M
On-column Amount (ng/ul)	: 0.1335

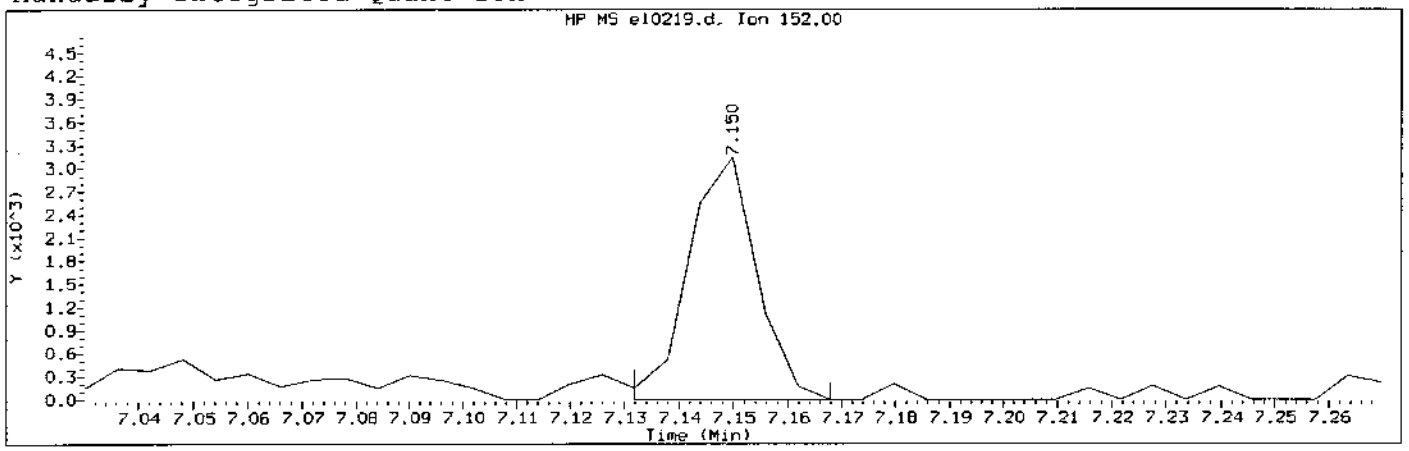
PCH69 0586

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 95		
Compound Name	: Acenaphthylene		
Scan Number	: 981		
Retention Time (minutes)	: 7.150		
Quant Ion	: 152.00		
Area (flag)	: 2746M		
On-column Amount (ng/ul)	: 0.1335		
Integration start scan	: 977	Integration stop scan:	983
Y at integration start	: 0	Y at integration end:	0

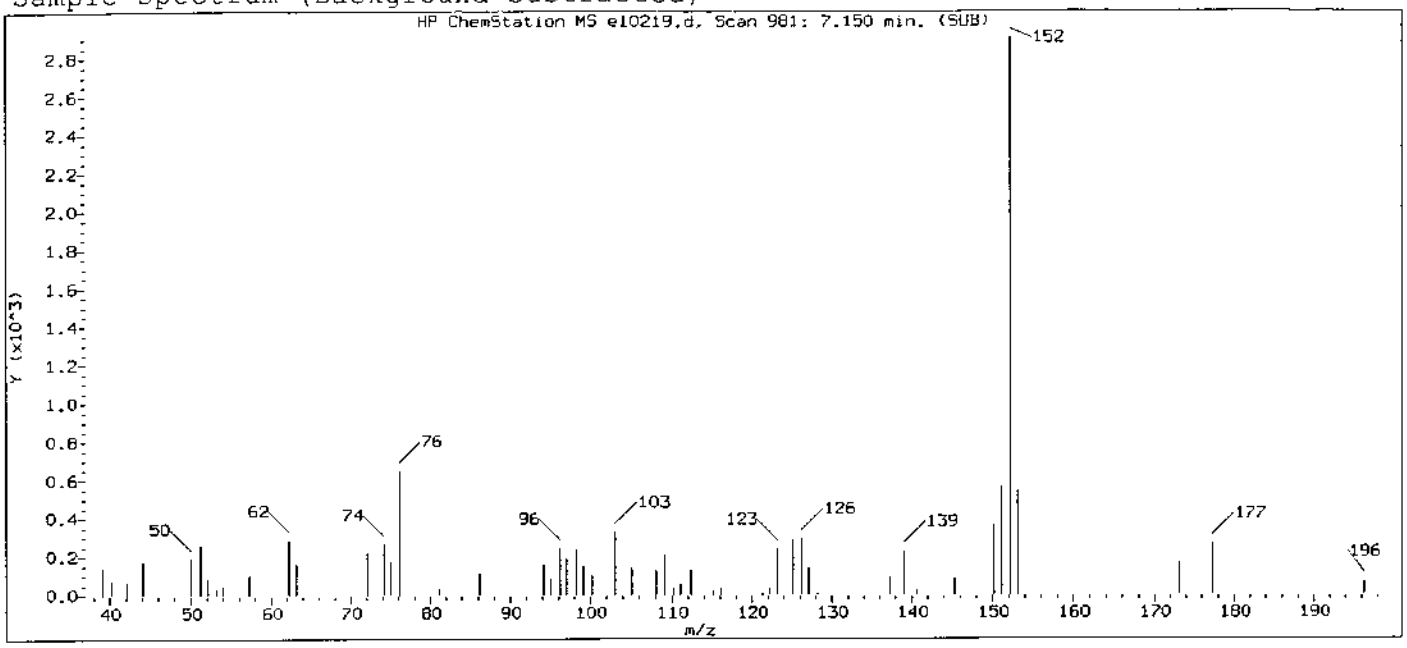
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

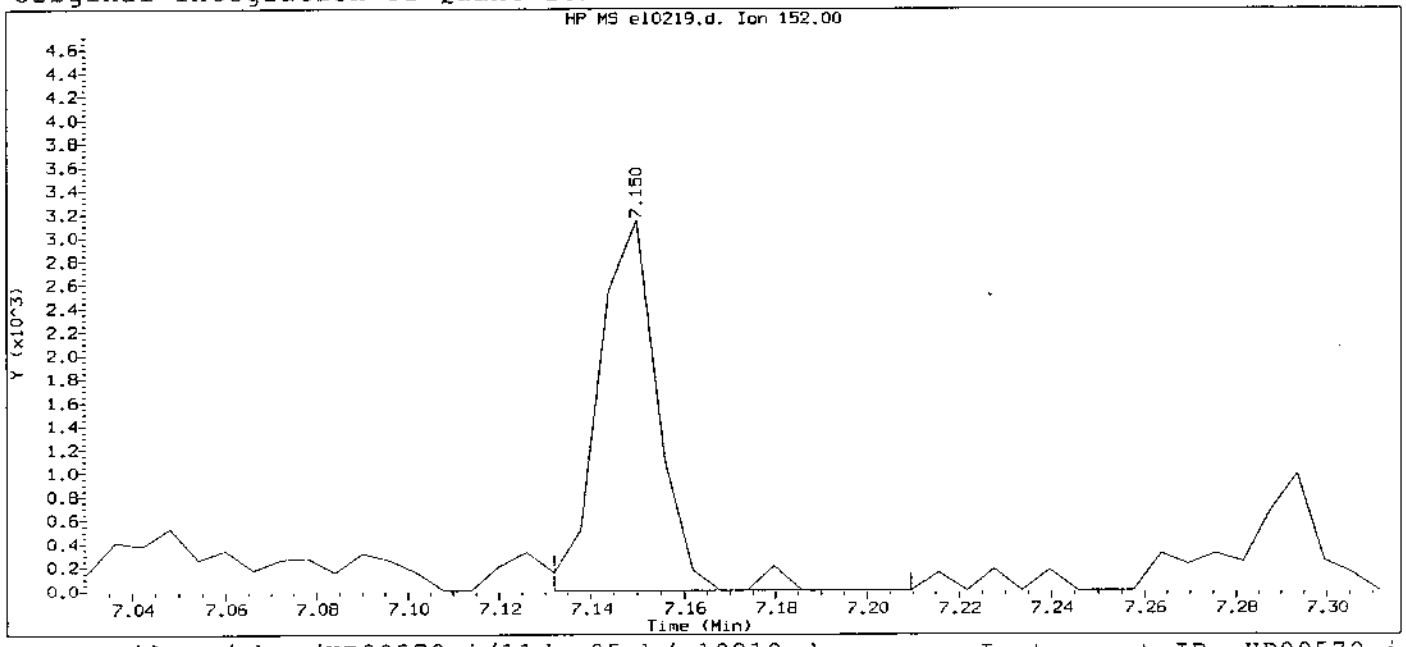
PCH89 0587

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59.
Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:39 jrr02820

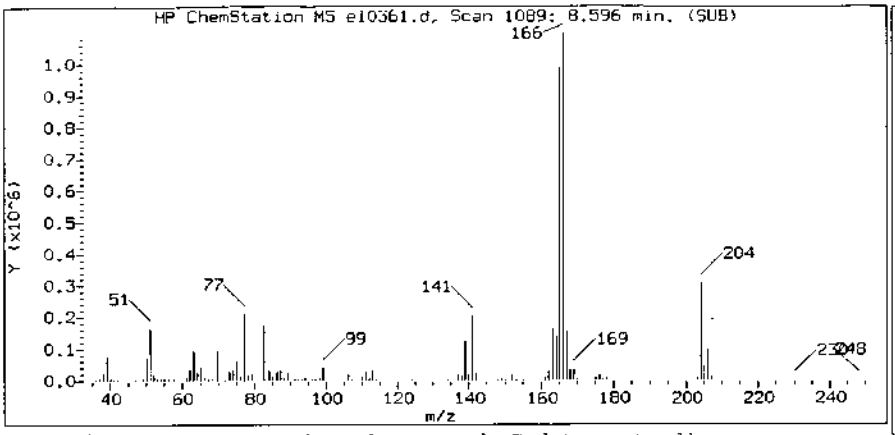
Sample Name: XXXXX Lab Sample ID: 6477569

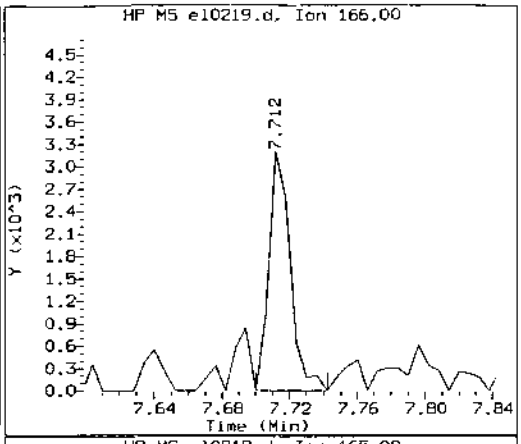
Compound Number	: 95		
Compound Name	: Acenaphthylene		
Scan Number	: 981		
Retention Time (minutes)	: 7.150		
Quant Ion	: 152.00		
Area	: 2792		
On-column Amount (ng/ul)	: 0.1358		
Integration start scan	: 977	Integration stop scan:	990
Y at integration start	: 0	Y at integration end:	0

PCH09 8588

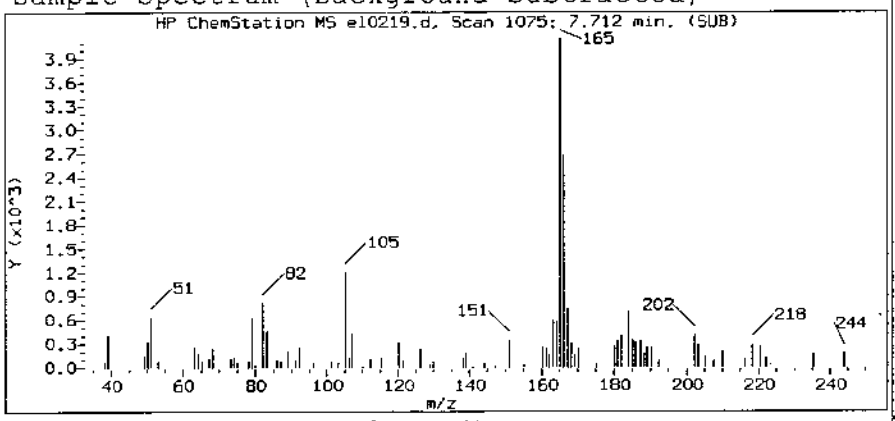
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

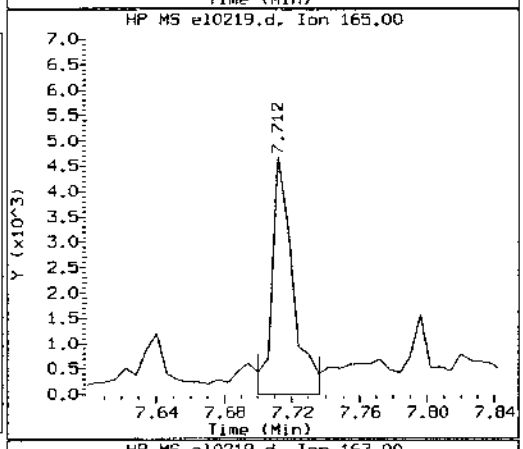
Reference Standard Spectrum for Fluorene



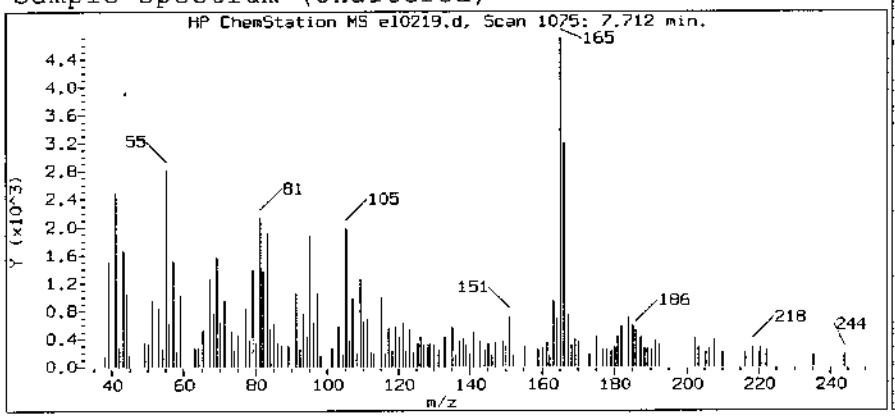


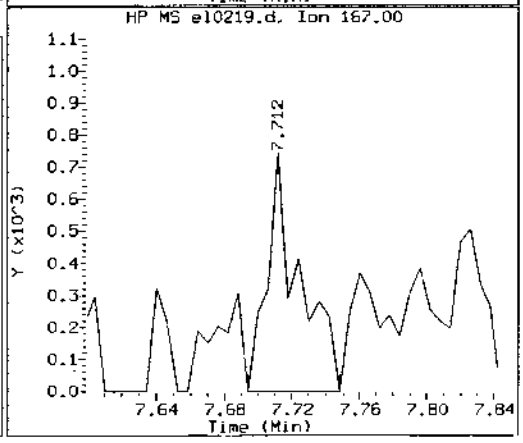
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0219.d
Injection date and time: 05-DEC-2011 16:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sublist used: WPAH0826

Sample Name: XXXXX

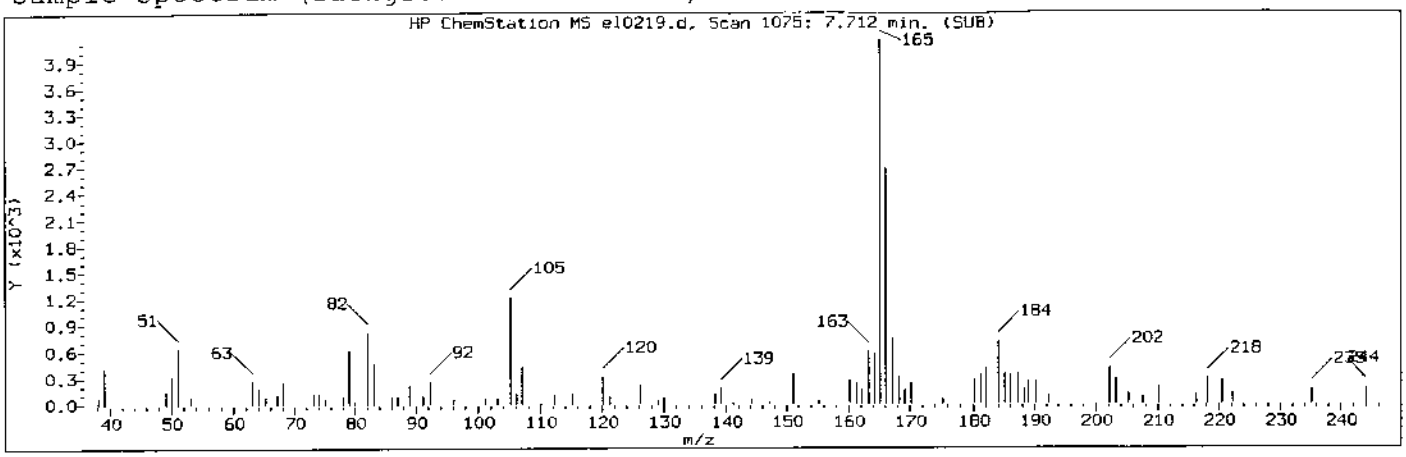
Lab Sample ID: 6477569

Compound Number	: 111
Compound Name	: Fluorene
Scan Number	: 1075
Retention Time (minutes)	: 7.712
Relative Retention Time	: 0.00082
Quant Ion	: 166.00
Area (flag)	: 2808M
On-column Amount (ng/ul)	: 0.1712

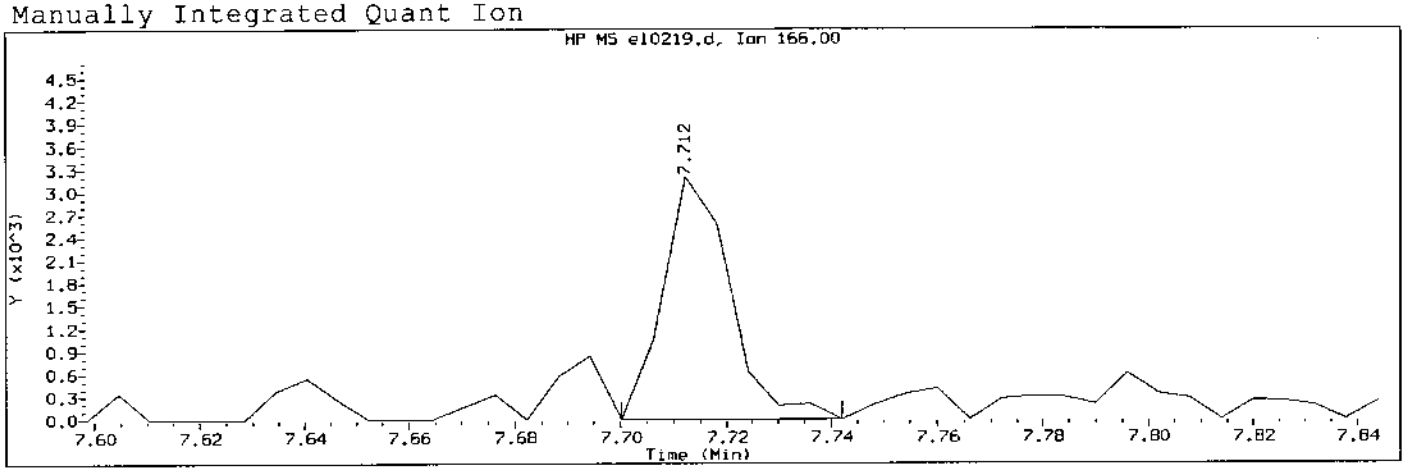
PCN09 8589

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56:
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 111		
Compound Name	: Fluorene		
Scan Number	: 1075		
Retention Time (minutes)	: 7.712		
Quant Ion	: 166.00		
Area (flag)	: 2808M		
On-column Amount (ng/ul)	: 0.1712		
Integration start scan	: 1072	Integration stop scan:	1079
Y at integration start	: 0	Y at integration end:	0

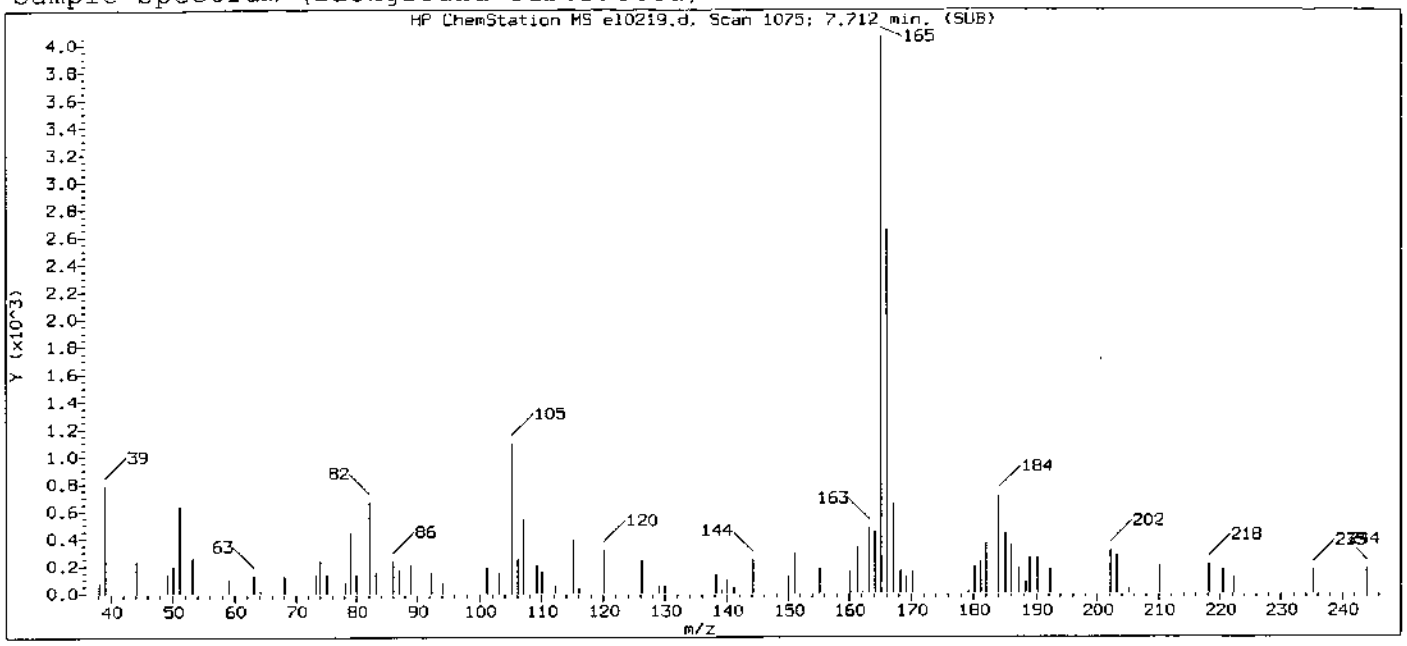
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56. Target 3.5 esignature user ID: msw02109

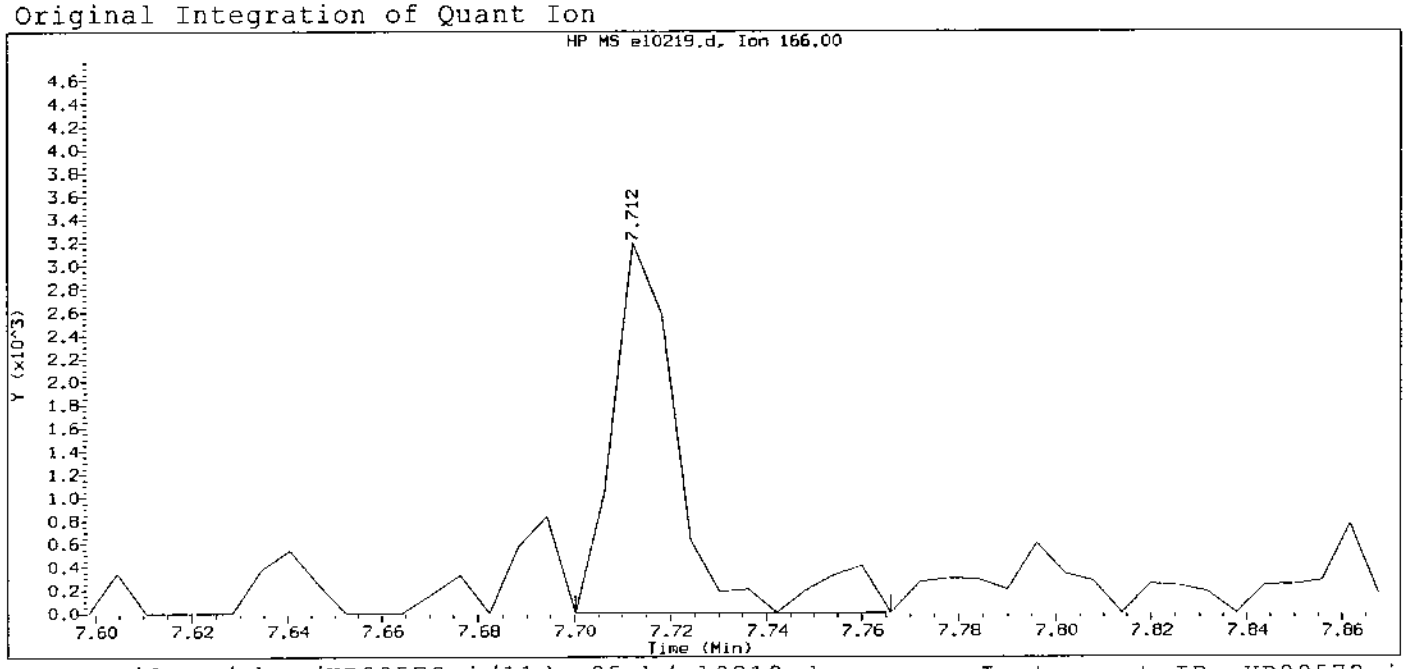
PCH07 0518

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59.
Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:39 jrr02820

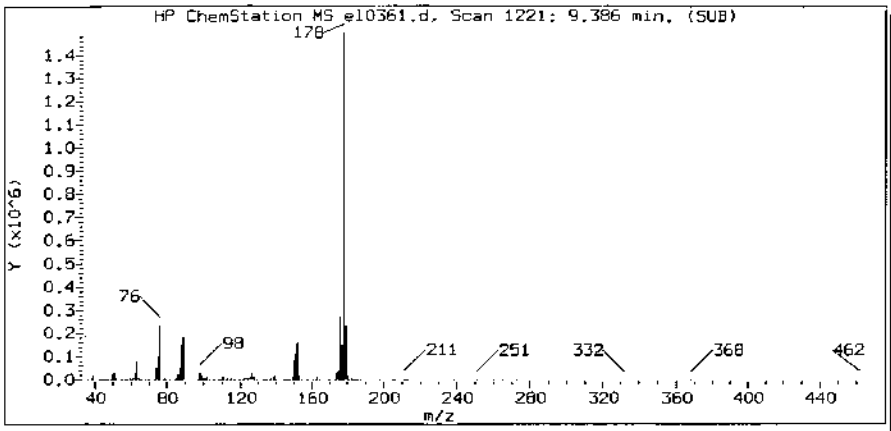
Sample Name: XXXXX Lab Sample ID: 6477569

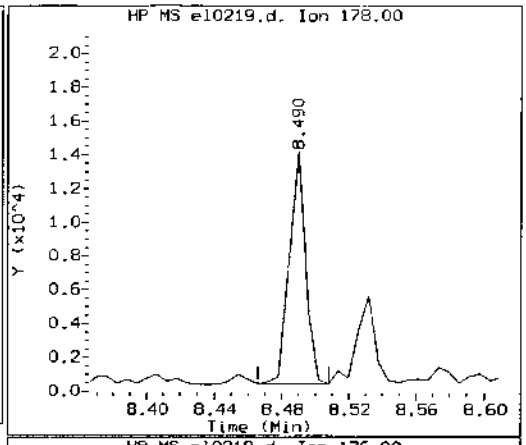
Compound Number	: 111		
Compound Name	: Fluorene		
Scan Number	: 1075		
Retention Time (minutes)	: 7.712		
Quant Ion	: 166.00		
Area	: 3140		
On-column Amount (ng/ul)	: 0.1915		
Integration start scan	: 1072	Integration stop scan:	1083
Y at integration start	: 0	Y at integration end:	0

PCH89 8511

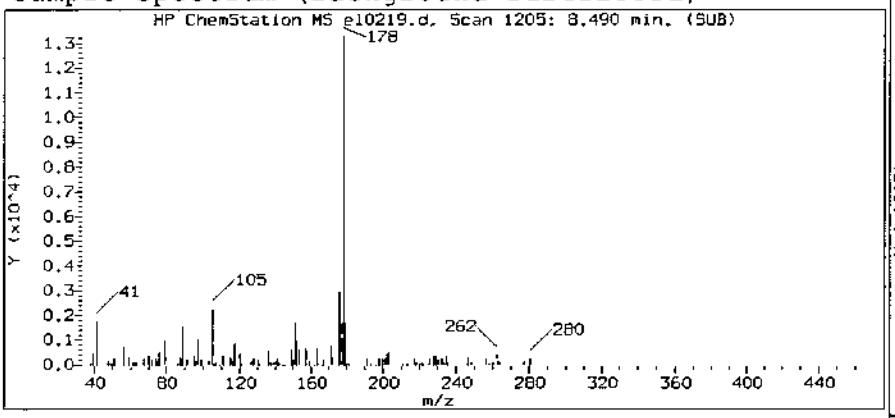
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

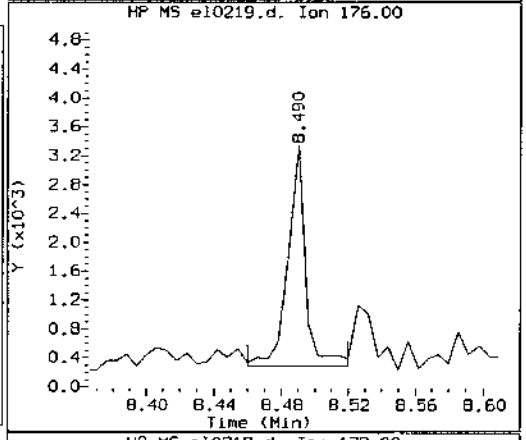
Reference Standard Spectrum for Phenanthrene



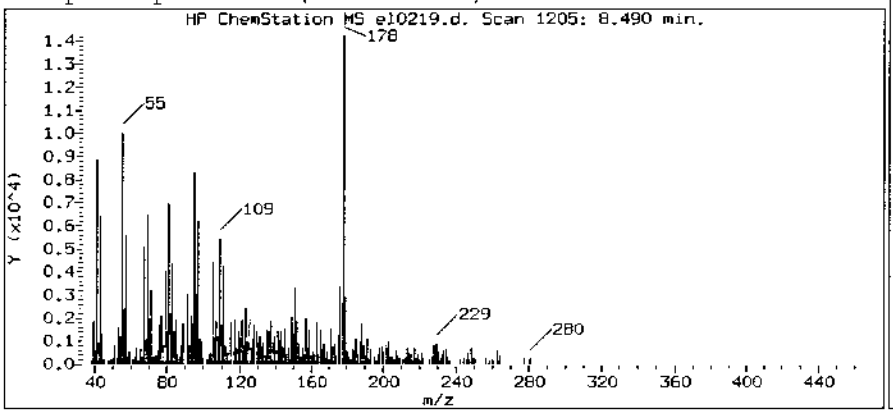


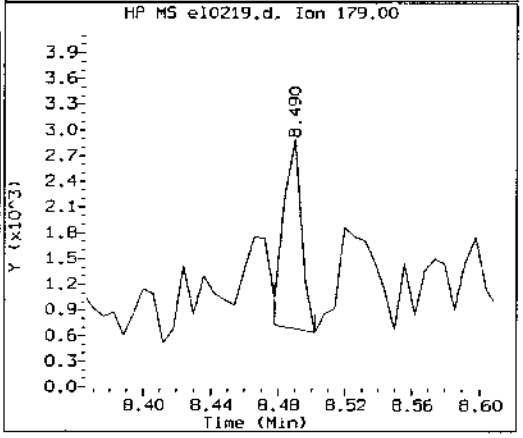
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

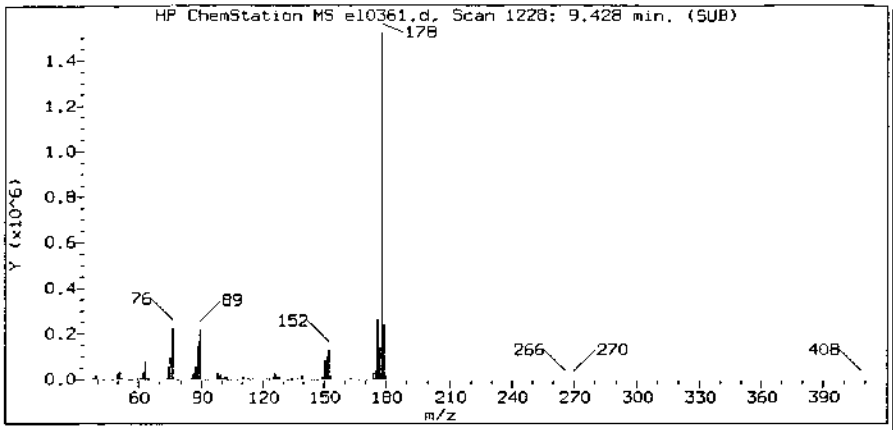
Sample Name: XXXXX Lab Sample ID: 6477569

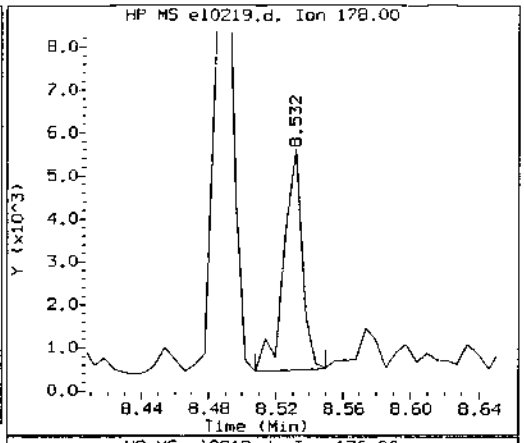
Compound Number	: 137
Compound Name	: Phenanthrene
Scan Number	: 1205
Retention Time (minutes)	: 8.490
Relative Retention Time	:-0.00000
Quant Ion	: 178.00
Area (flag)	: 9193
On-column Amount (ng/ul)	: 0.3840

PCH09 0512

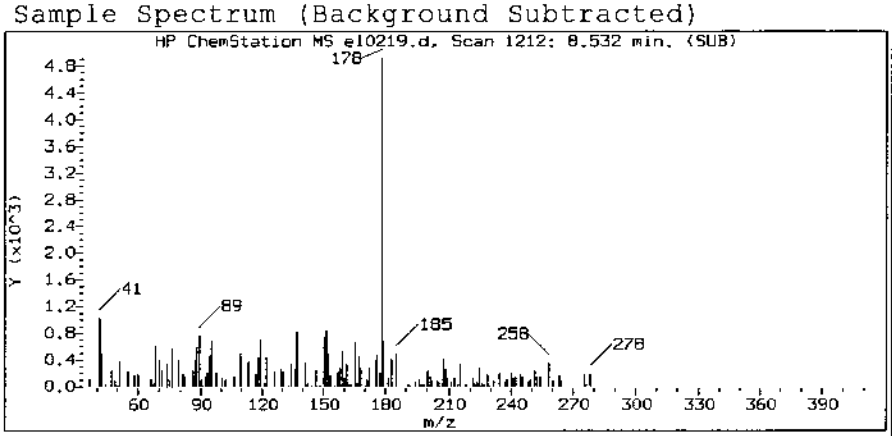
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

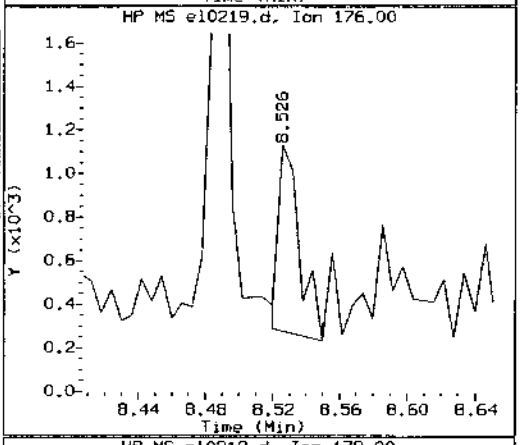
Reference Standard Spectrum for Anthracene



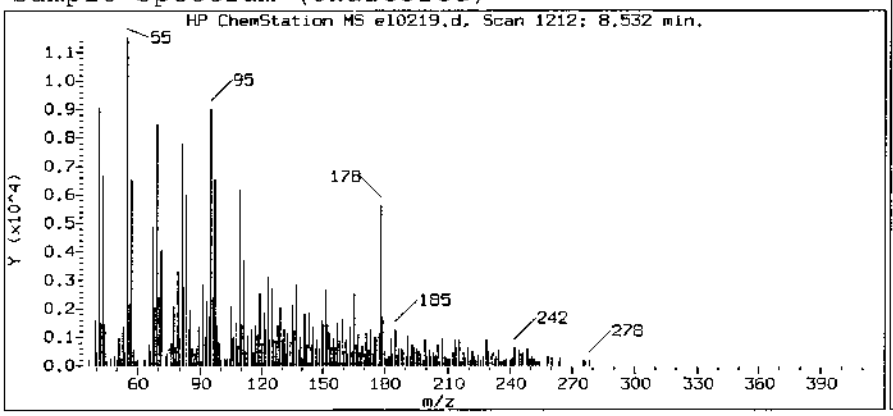


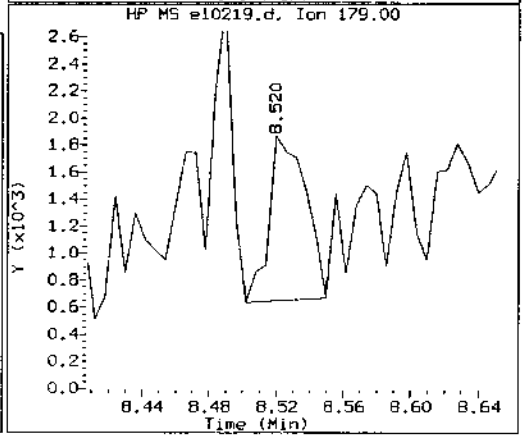
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

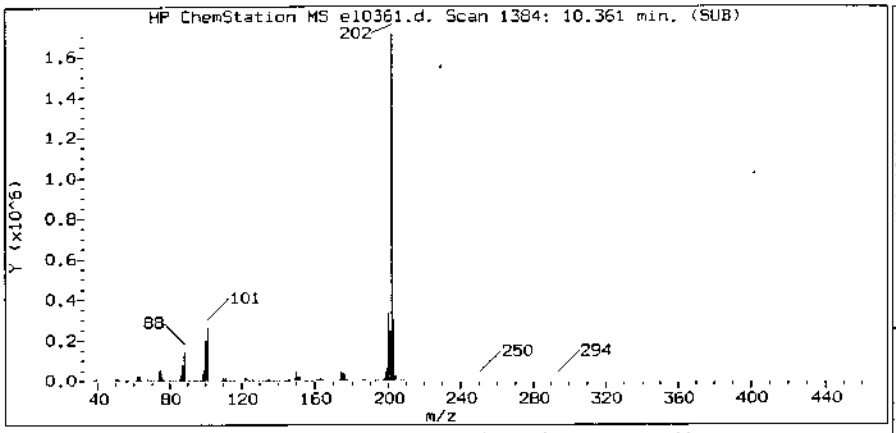
Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 138
Compound Name	: Anthracene
Scan Number	: 1212
Retention Time (minutes)	: 8.532
Relative Retention Time	:-0.00000
Quant Ion	: 178.00
Area (flag)	: 3891
On-column Amount (ng/ul)	: 0.1648

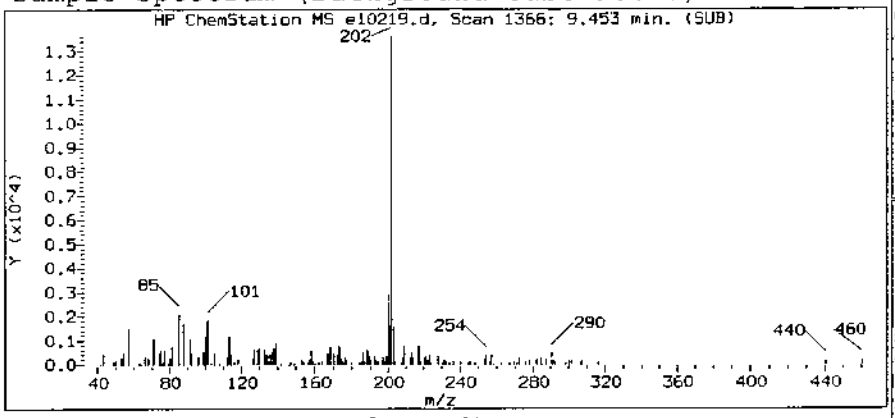
PCH09 8513

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

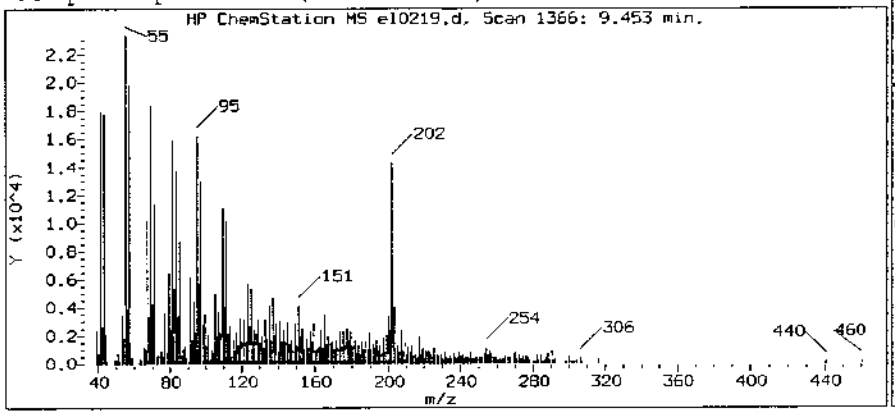
Reference Standard Spectrum for Fluoranthene

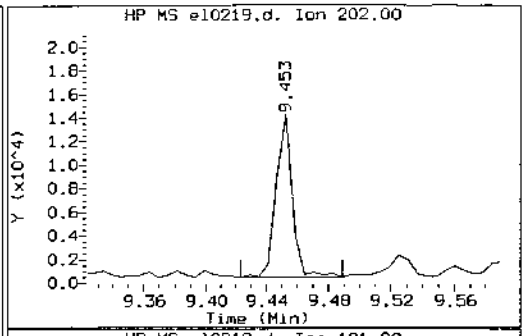


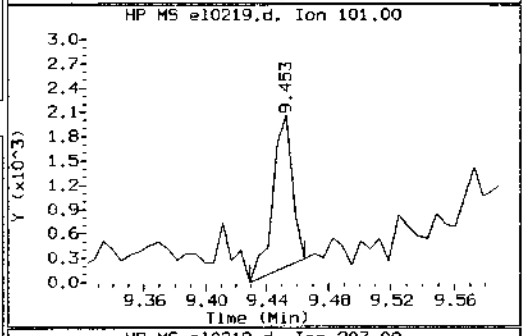
Sample Spectrum (Background Subtracted)

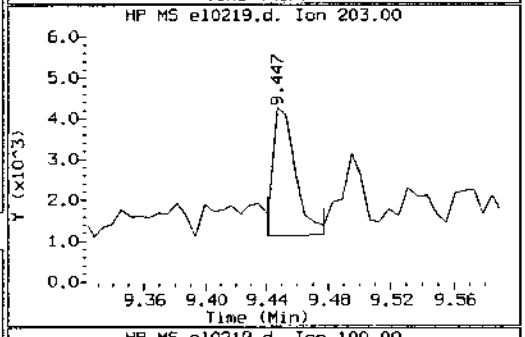


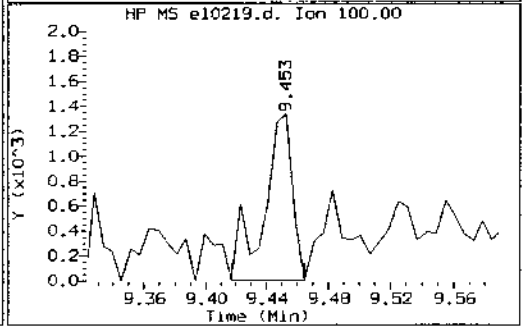
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11dec05.b/e10219.d
Injection date and time: 05-DEC-2011 16:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sublist used: WPAH0826

Sample Name: XXXXX

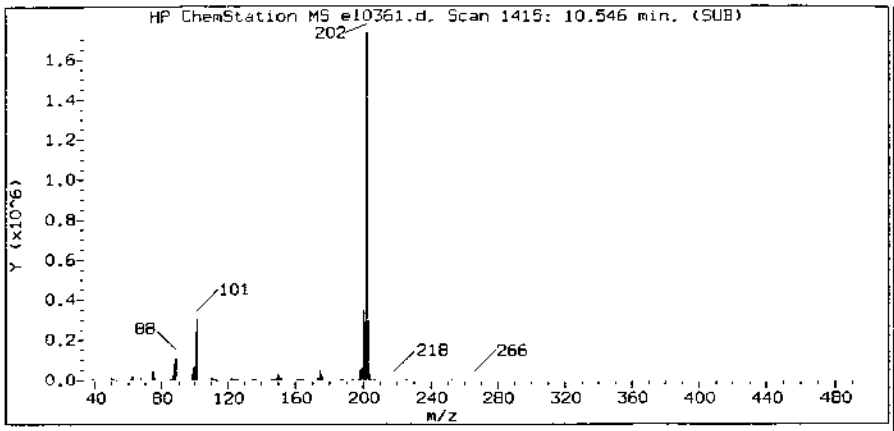
Lab Sample ID: 6477569

Compound Number	: 147
Compound Name	: Fluoranthene
Scan Number	: 1366
Retention Time (minutes)	: 9.453
Relative Retention Time	:-0.00000
Quant Ion	: 202.00
Area (flag)	: 10287
On-column Amount (ng/ul)	: 0.4462

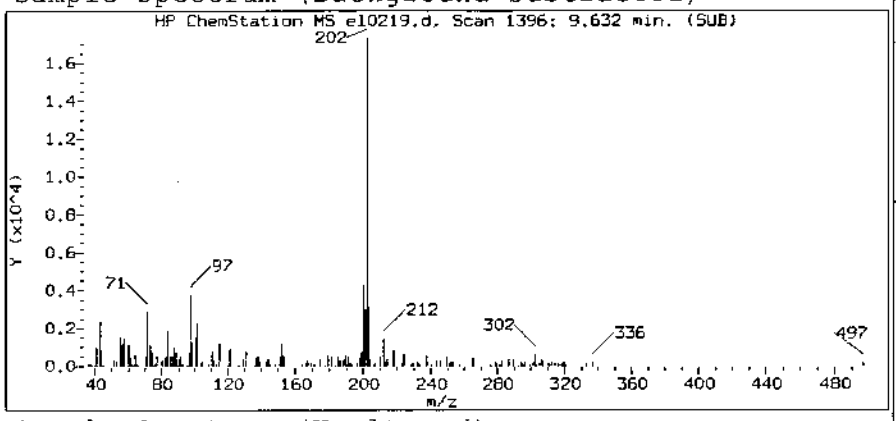
FOR00 0514

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

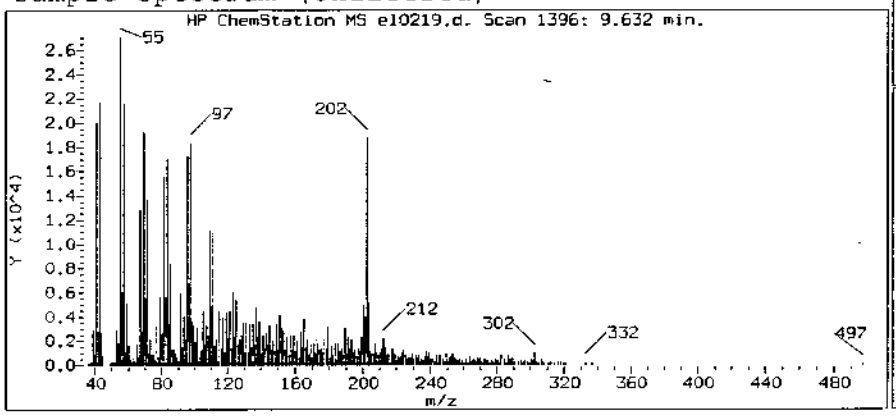
Reference Standard Spectrum for Pyrene

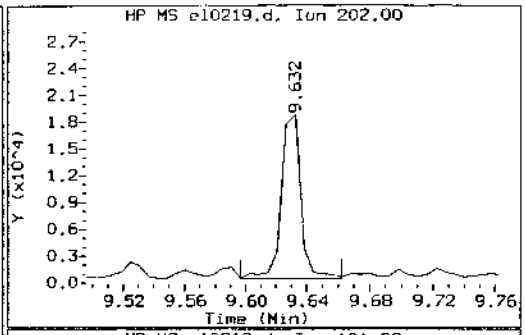


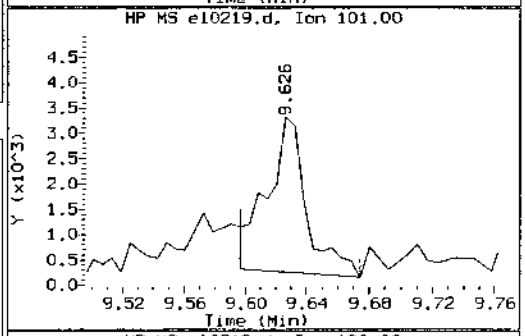
Sample Spectrum (Background Subtracted)

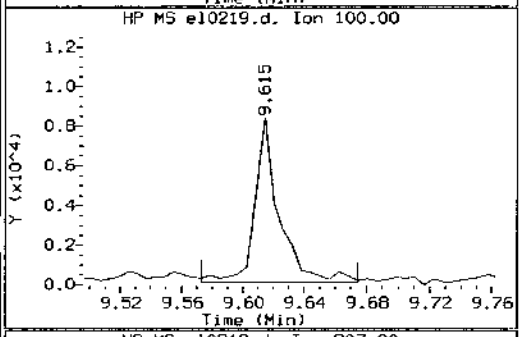


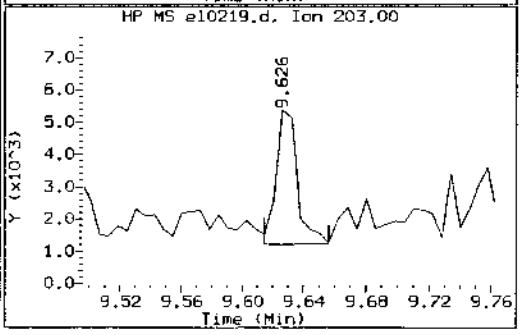
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11dec05.b/el0219.d
Injection date and time: 05-DEC-2011 16:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sublist used: WPAH0826

Sample Name: XXXXX

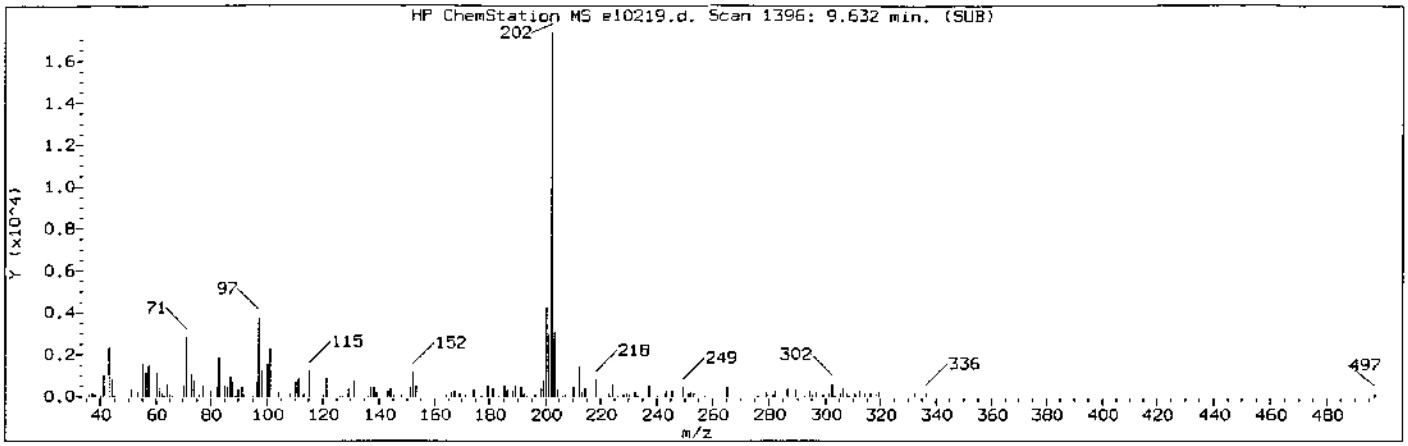
Lab Sample ID: 6477569

Compound Number	: 154
Compound Name	: Pyrene
Scan Number	: 1396
Retention Time (minutes)	: 9.632
Relative Retention Time	:-0.00000
Quant Ion	: 202.00
Area (flag)	: 16209M
On-column Amount (ng/ul)	: 0.6426

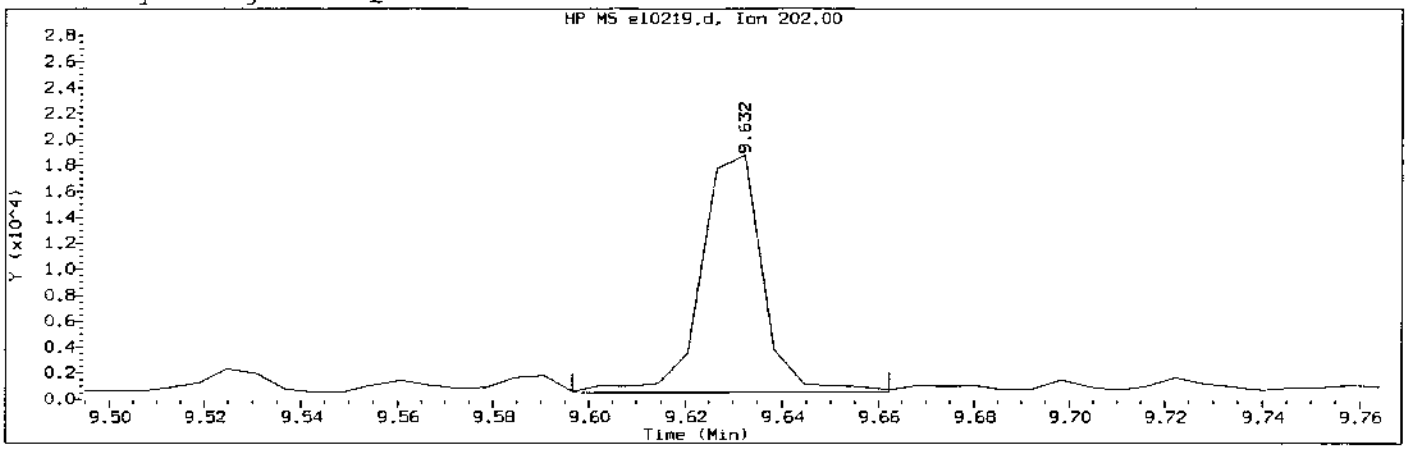
PCH89 9515

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 154		
Compound Name	: Pyrene		
Scan Number	: 1396		
Retention Time (minutes)	: 9.632		
Quant Ion	: 202.00		
Area (flag)	: 16209M		
On-column Amount (ng/ul)	: 0.6426		
Integration start scan	: 1389	Integration stop scan:	1400
Y at integration start	: 513	Y at integration end:	521

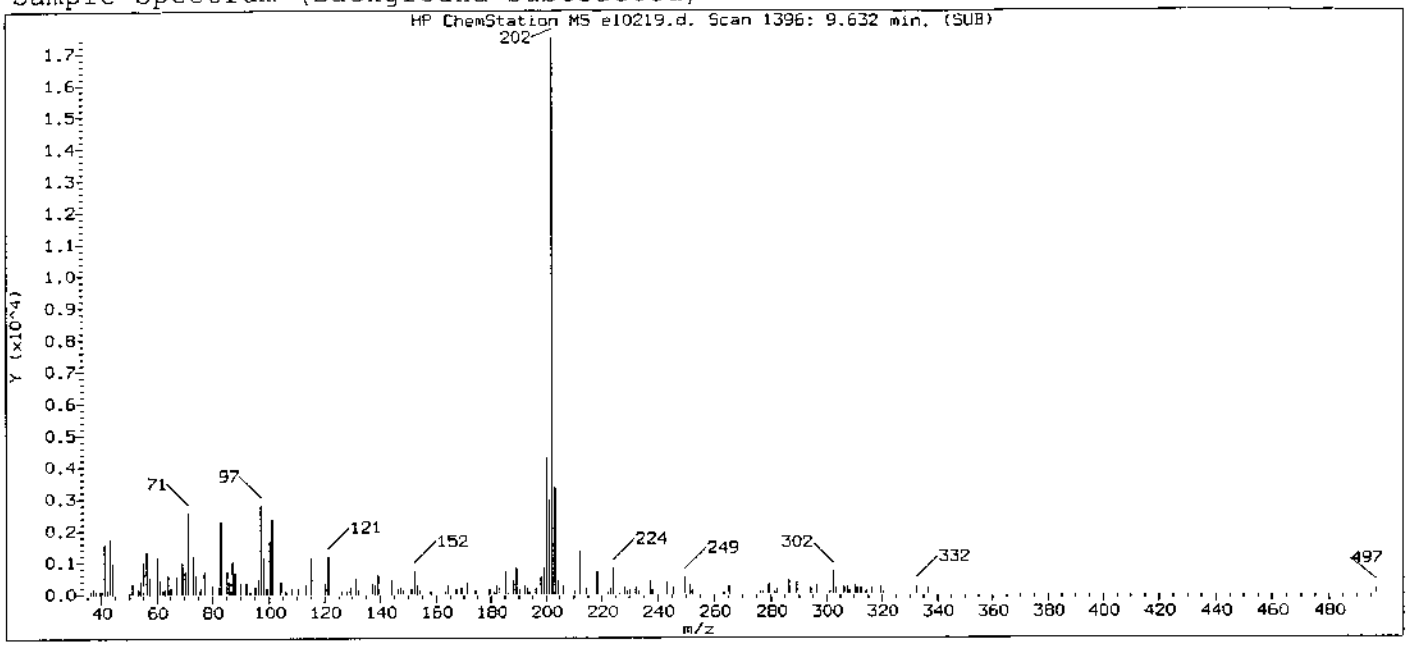
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

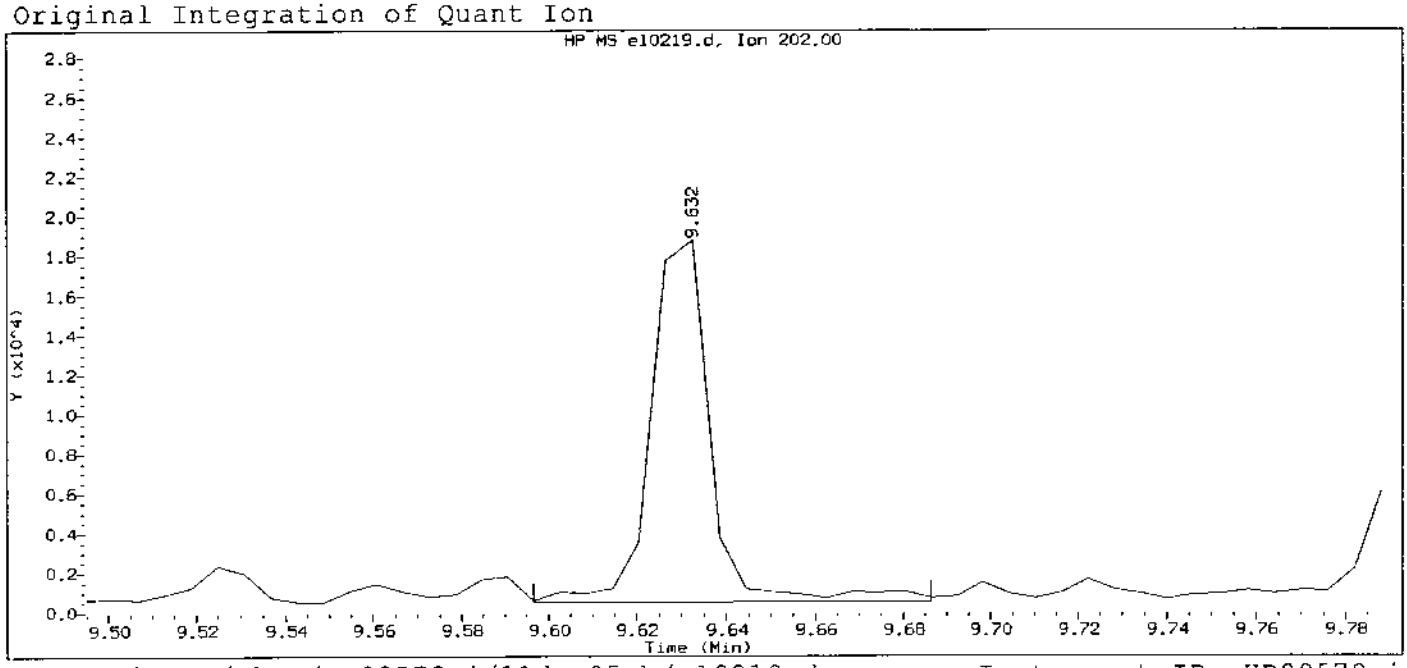
PCH89 8516

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59.
Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:39 jrr02820

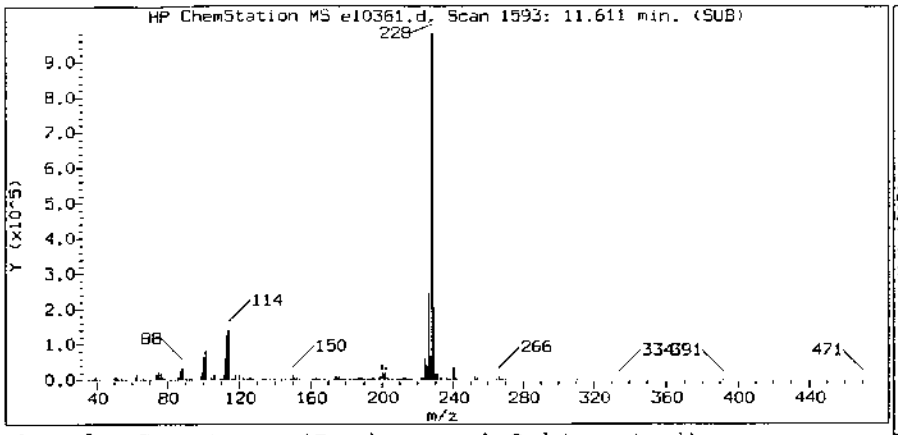
Sample Name: XXXXX Lab Sample ID: 6477569

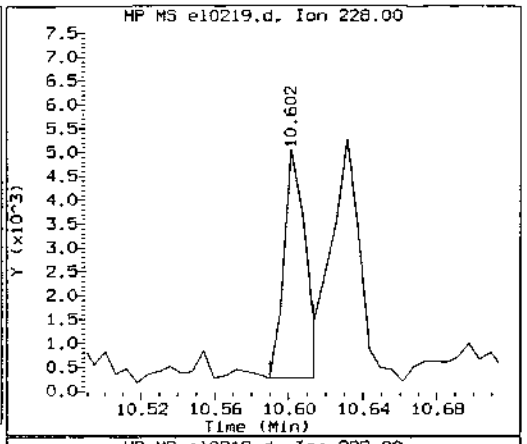
Compound Number	: 154		
Compound Name	: Pyrene		
Scan Number	: 1396		
Retention Time (minutes)	: 9.632		
Quant Ion	: 202.00		
Area	: 16764		
On-column Amount (ng/ul)	: 0.6647		
Integration start scan	: 1389	Integration stop scan:	1404
Y at integration start	: 513	Y at integration end:	524

PCH89 0517

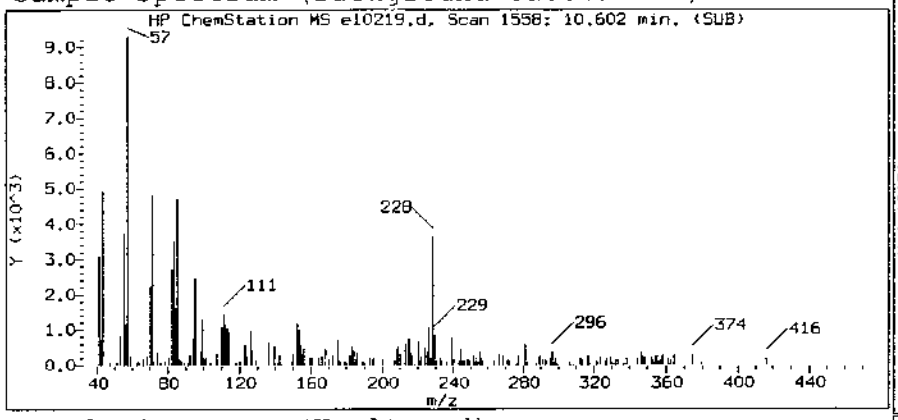
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

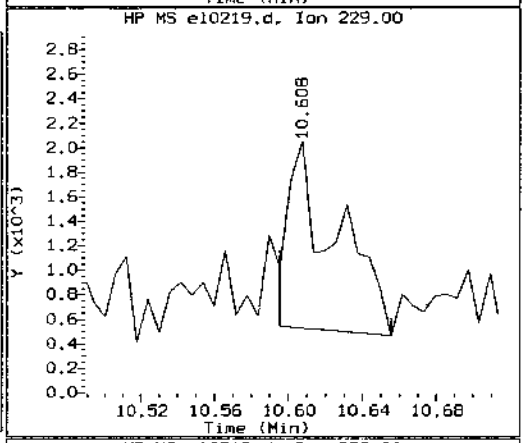
Reference Standard Spectrum for Benzo(a)anthracene



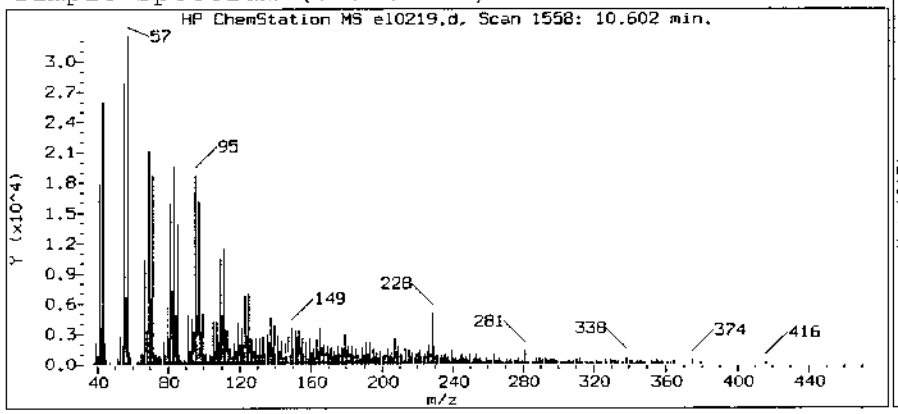


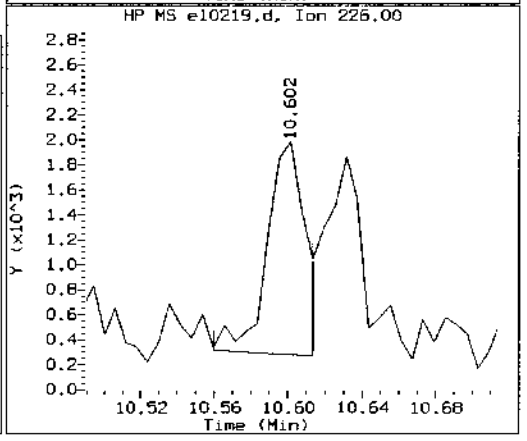
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10219.d
Injection date and time: 05-DEC-2011 16:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sublist used: WPAH0826

Sample Name: XXXXX

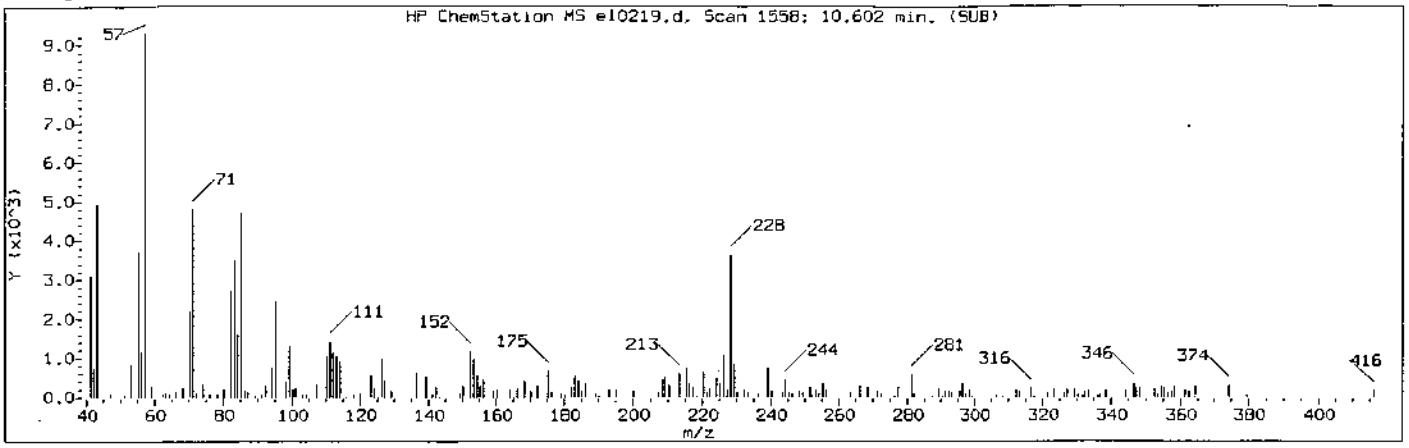
Lab Sample ID: 6477569

Compound Number	: 166
Compound Name	: Benzo(a)anthracene
Scan Number	: 1558
Retention Time (minutes)	: 10.602
Relative Retention Time	: 0.00062
Quant Ion	: 228.00
Area (flag)	: 3865M
On-column Amount (ng/ul)	: 0.1985

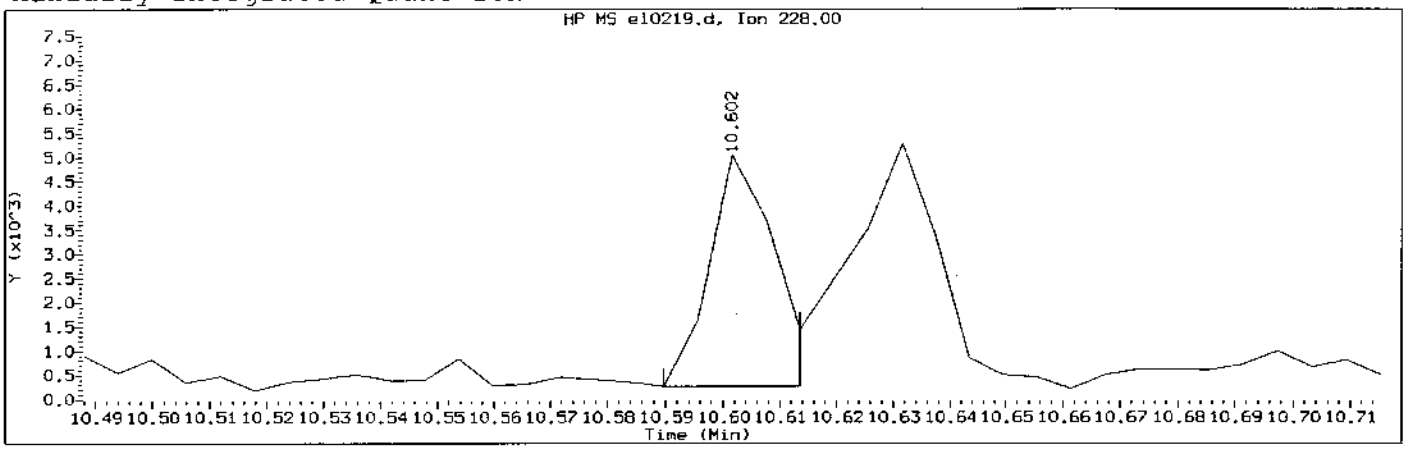
PCH89 9518

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 166		
Compound Name	: Benzo(a)anthracene		
Scan Number	: 1558		
Retention Time (minutes)	: 10.602		
Quant Ion	: 228.00		
Area (flag)	: 3865M		
On-column Amount (ng/ul)	: 0.1985		
Integration start scan	: 1555	Integration stop scan:	1559
Y at integration start	: 267	Y at integration end:	267

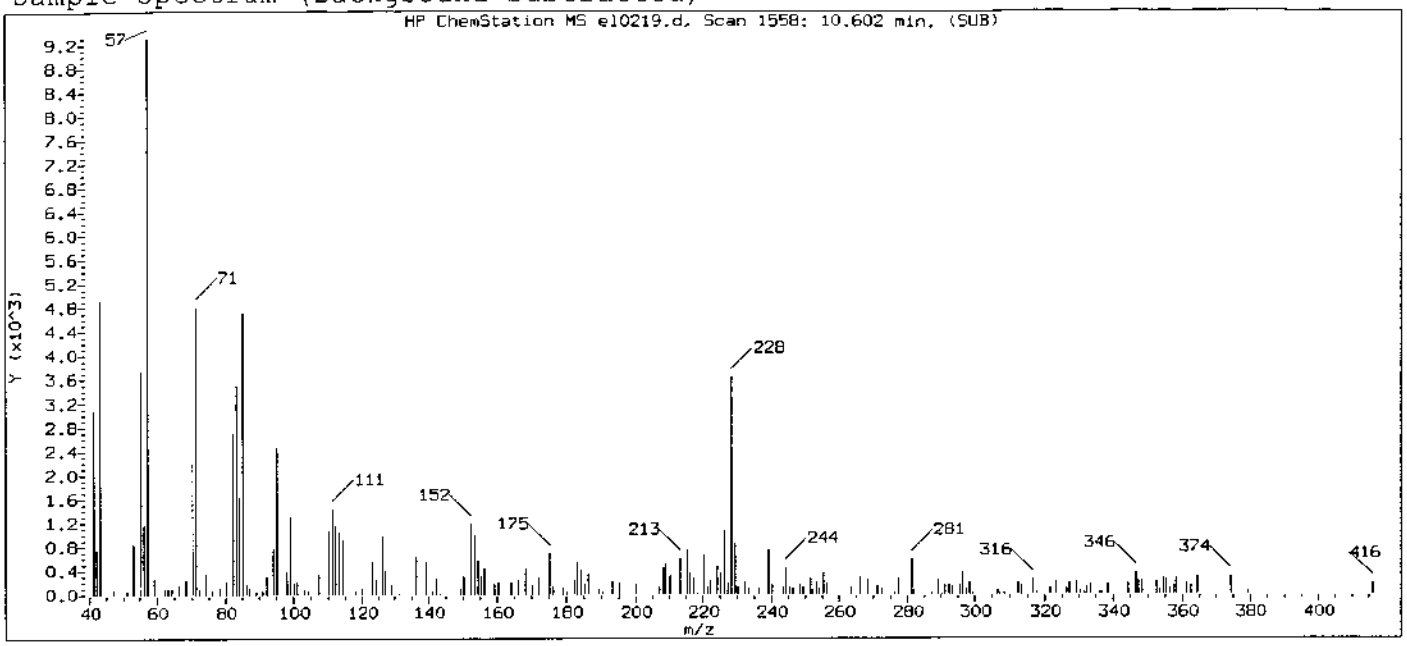
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56. Target 3.5 esignature user ID: msw02109

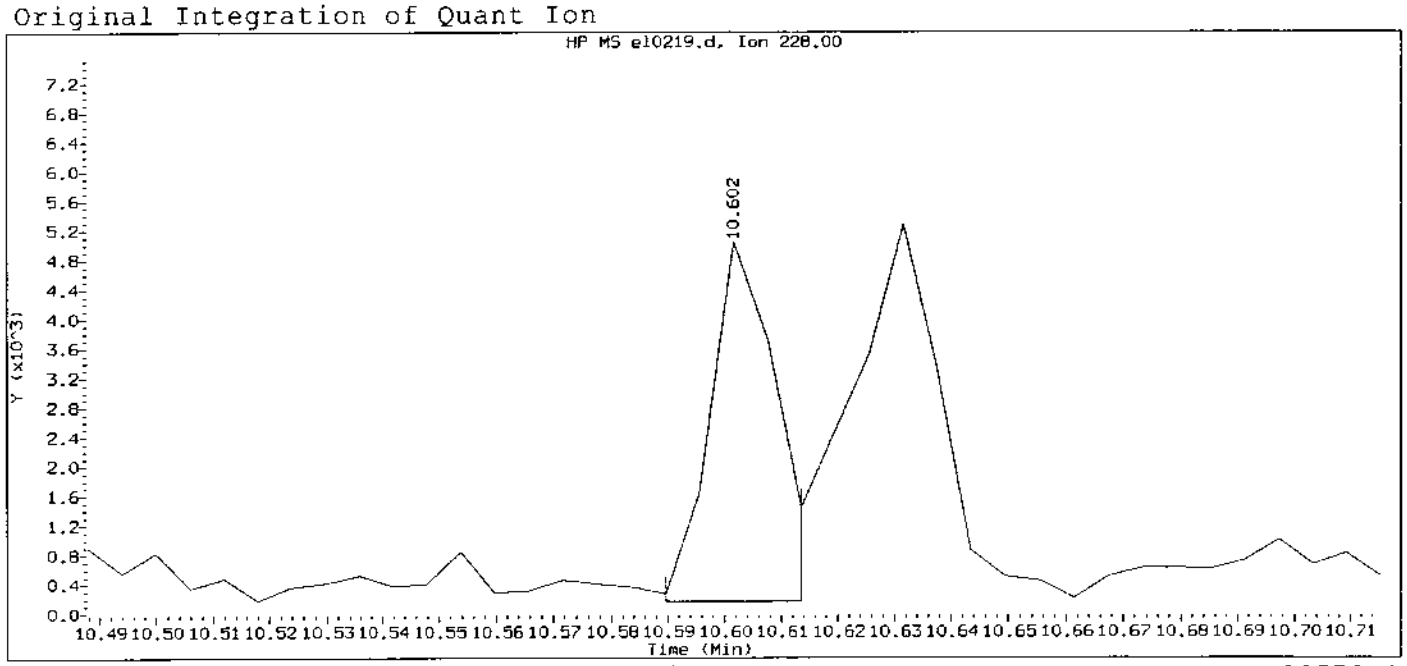
PCH89 8519

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59. Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:39 jrr02820

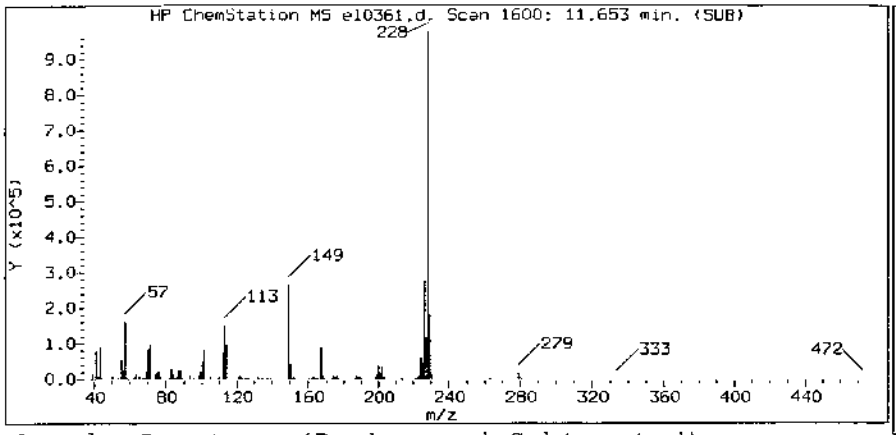
Sample Name: XXXXX Lab Sample ID: 6477569

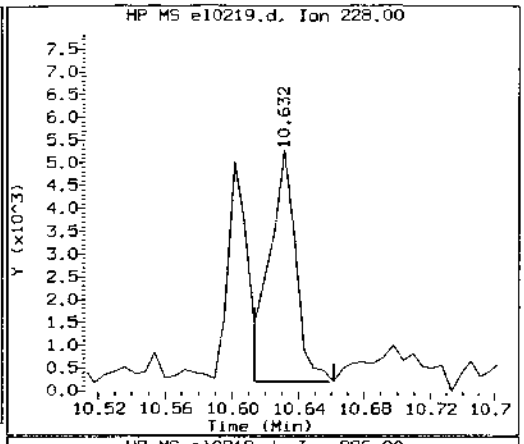
Compound Number	: 166		
Compound Name	: Benzo(a)anthracene		
Scan Number	: 1558		
Retention Time (minutes)	: 10.602		
Quant Ion	: 228.00		
Area	: 3794		
On-column Amount (ng/ul)	: 0.1949		
Integration start scan	: 1555	Integration stop scan:	1559
Y at integration start	: 169	Y at integration end:	169

PCH89 8528

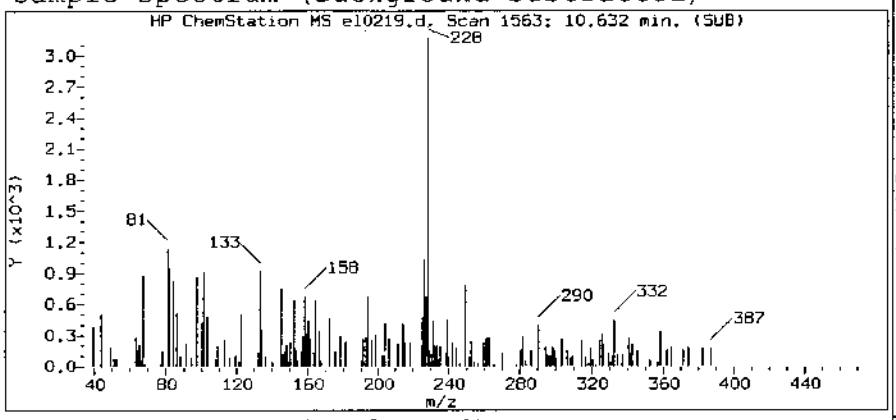
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

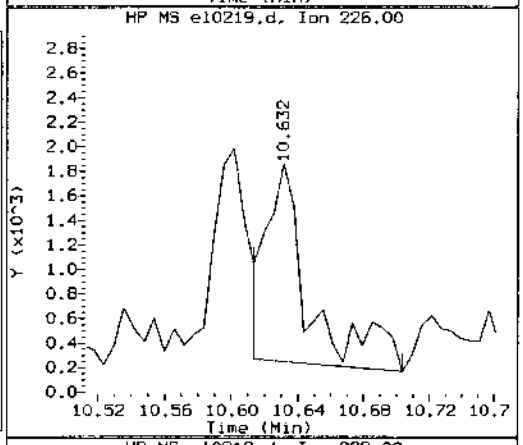
Reference Standard Spectrum for Chrysene



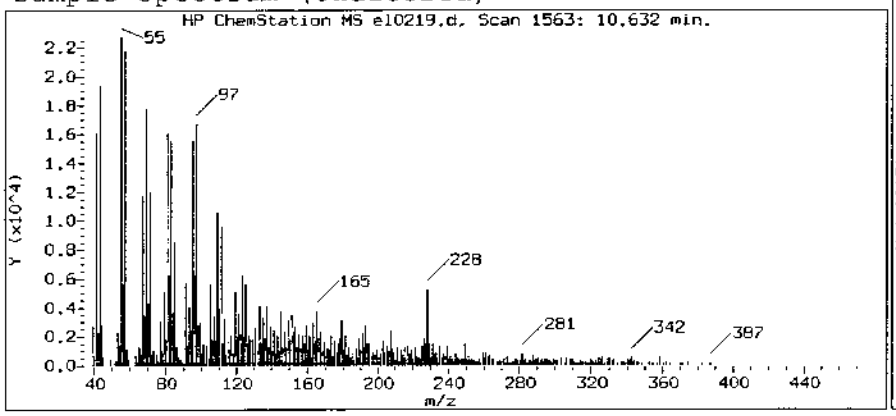


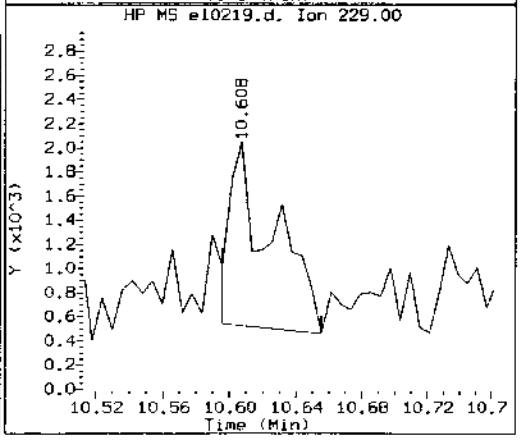
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0219.d
Injection date and time: 05-DEC-2011 16:04

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sublist used: WPAH0826

Sample Name: XXXXX

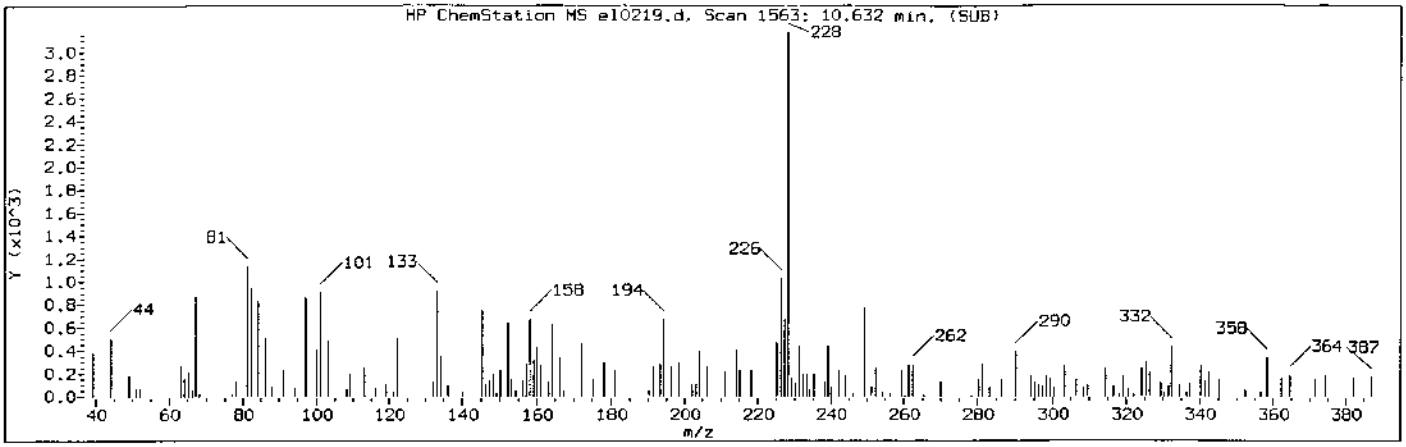
Lab Sample ID: 6477569

Compound Number	: 168
Compound Name	: Chrysene
Scan Number	: 1563
Retention Time (minutes)	: 10.632
Relative Retention Time	: 0.00062
Quant Ion	: 228.00
Area (flag)	: 5846M
On-column Amount (ng/ul)	: 0.2912

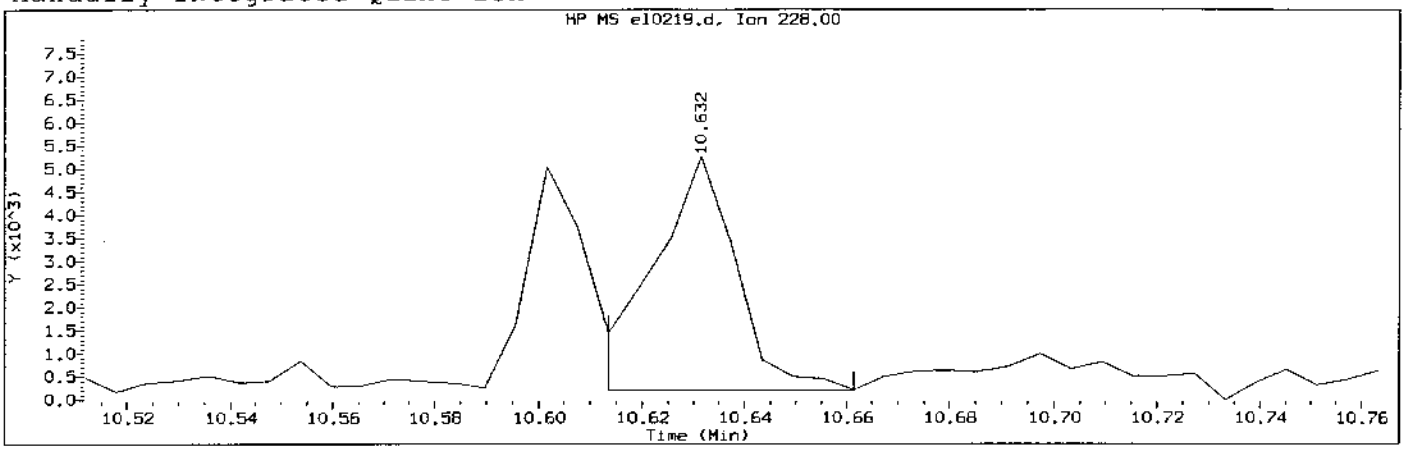
PCN#9 6521

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 168		
Compound Name	: Chrysene		
Scan Number	: 1563		
Retention Time (minutes)	: 10.632		
Quant Ion	: 228.00		
Area (flag)	: 5846M		
On-column Amount (ng/ul)	: 0.2912		
Integration start scan	: 1559	Integration stop scan:	1567
Y at integration start	: 204	Y at integration end:	204

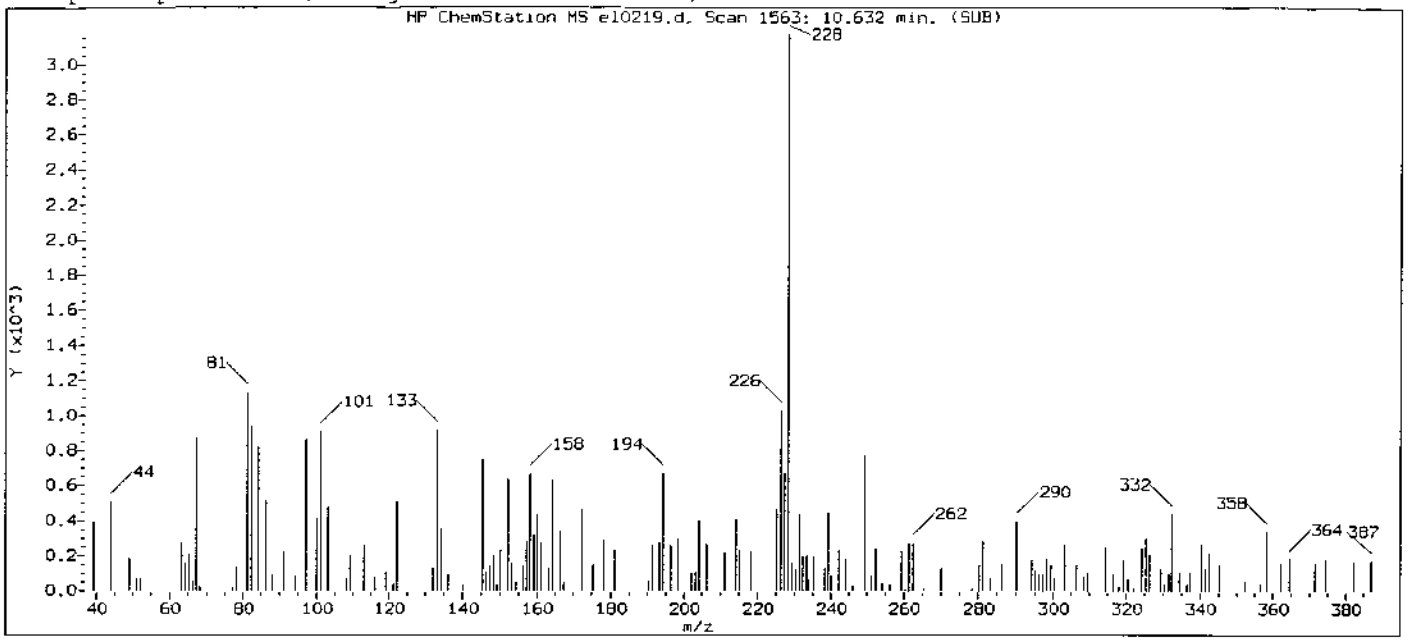
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

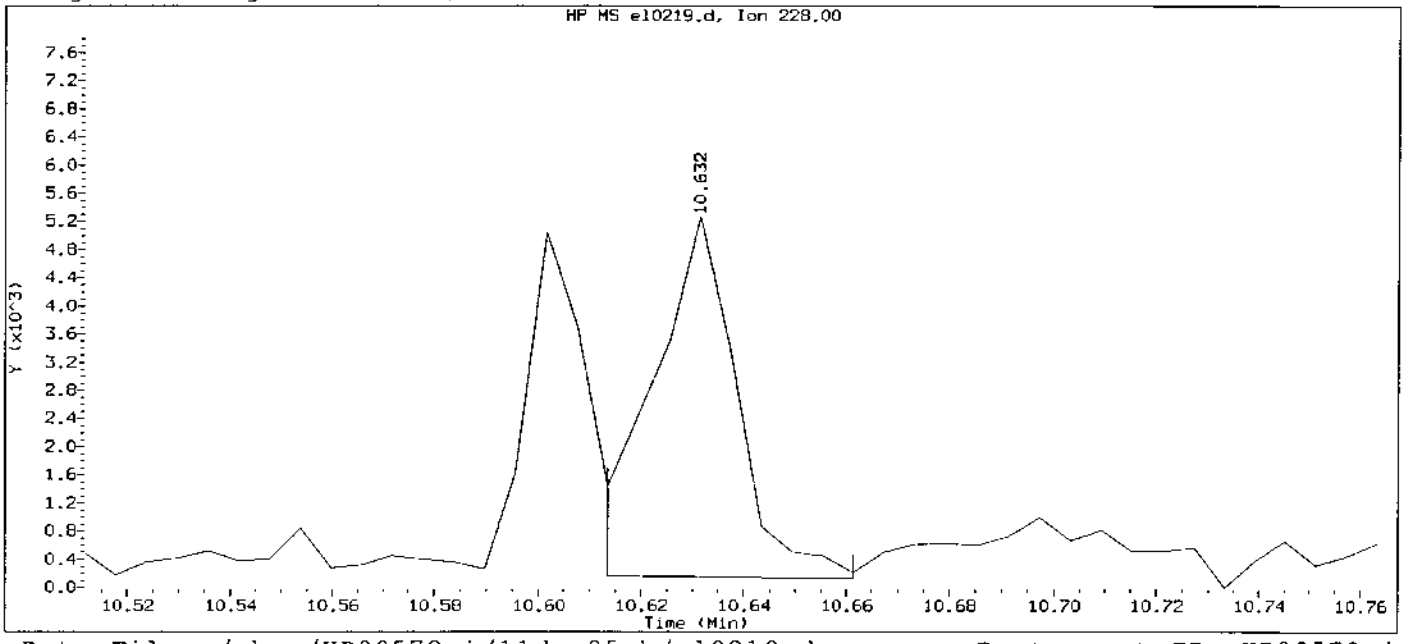
PCH89 8522

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59.
ParaMax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:39 jrr02820

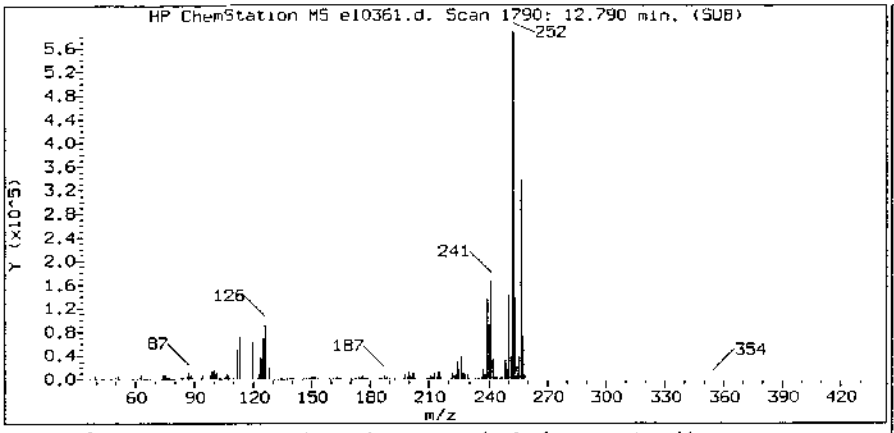
Sample Name: XXXXX Lab Sample ID: 6477569

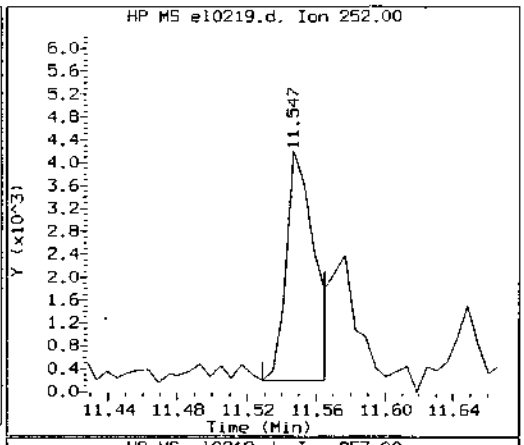
Compound Number	: 168		
Compound Name	: Chrysene		
Scan Number	: 1563		
Retention Time (minutes)	: 10.632		
Quant Ion	: 228.00		
Area	: 5772		
On-column Amount (ng/ul)	: 0.2875		
Integration start scan	: 1559	Integration stop scan:	1567
Y at integration start	: 169	Y at integration end:	134

PCH09 8523

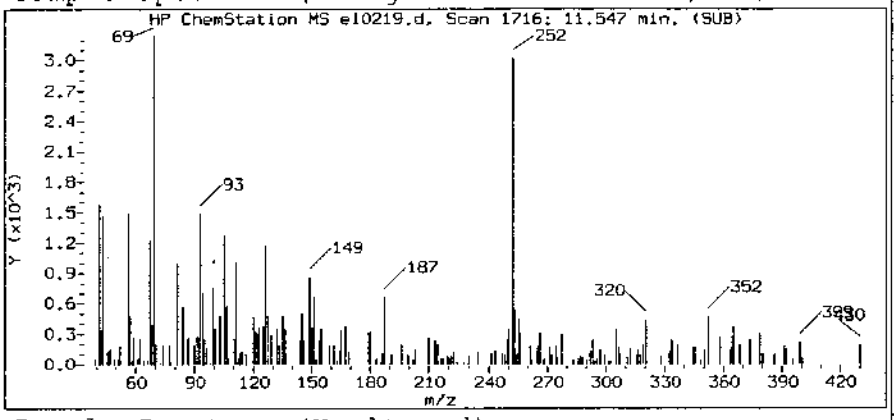
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

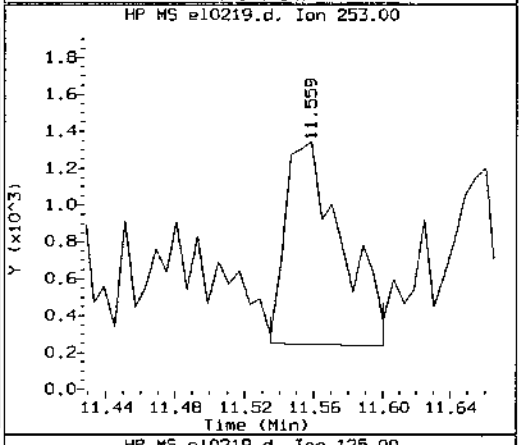
Reference Standard Spectrum for Benzo(b)fluoranthene



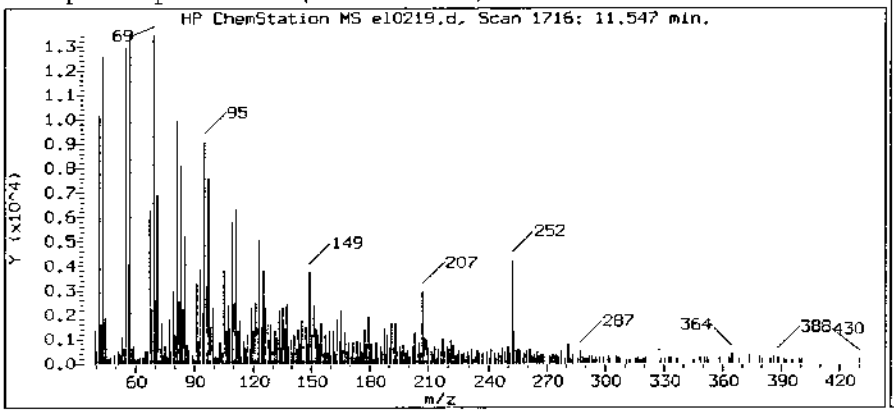


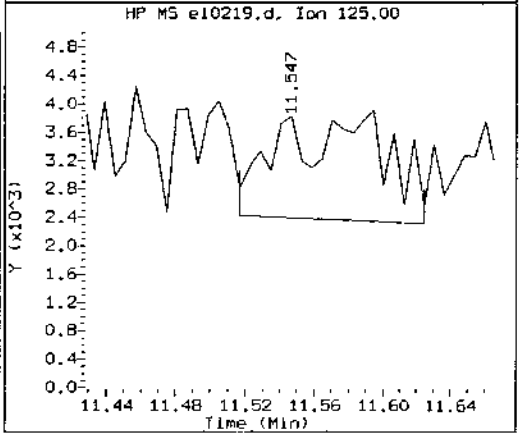
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

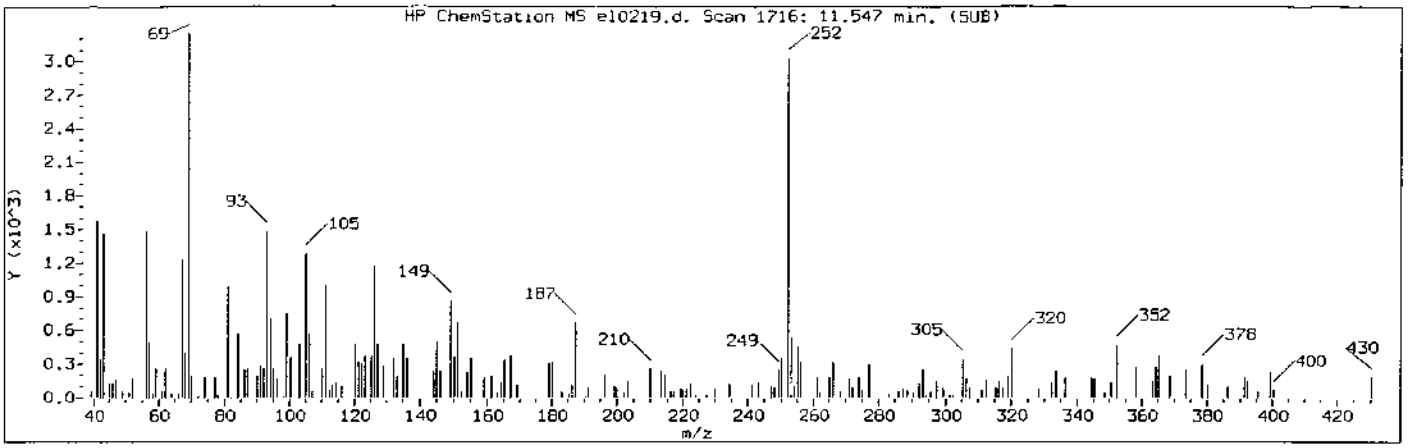
Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 172
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1716
Retention Time (minutes)	: 11.547
Relative Retention Time	: 0.00100
Quant Ion	: 252.00
Area (flag)	: 4568M
On-column Amount (ng/ul)	: 0.2532

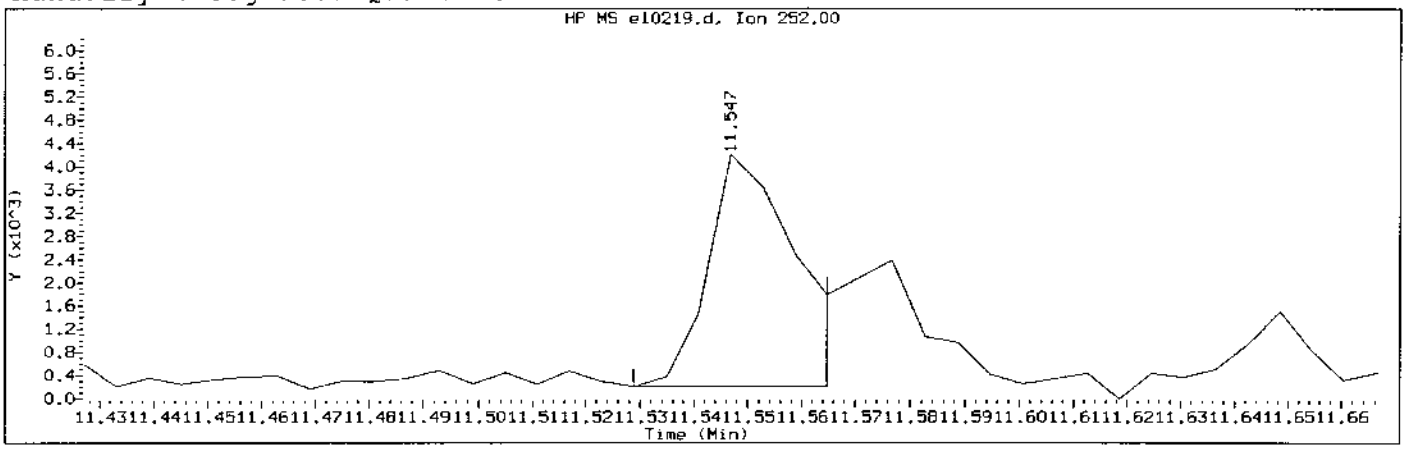
PCH09 8524

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 172		
Compound Name	: Benzo(b)fluoranthene		
Scan Number	: 1716		
Retention Time (minutes)	: 11.547		
Quant Ion	: 252.00		
Area (flag)	: 4568M		
On-column Amount (ng/ul)	: 0.2532		
Integration start scan	: 1712	Integration stop scan:	1718
Y at integration start	: 207	Y at integration end:	207

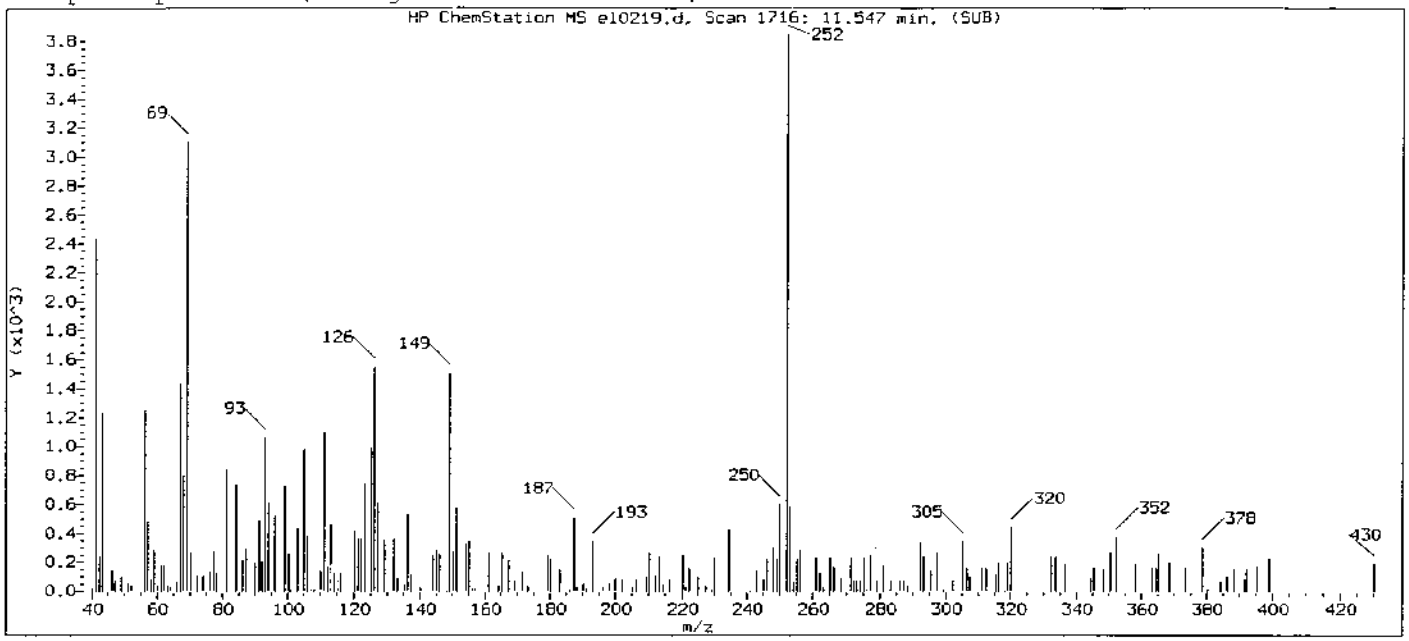
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56. Target 3.5 esignature user ID: msw02109

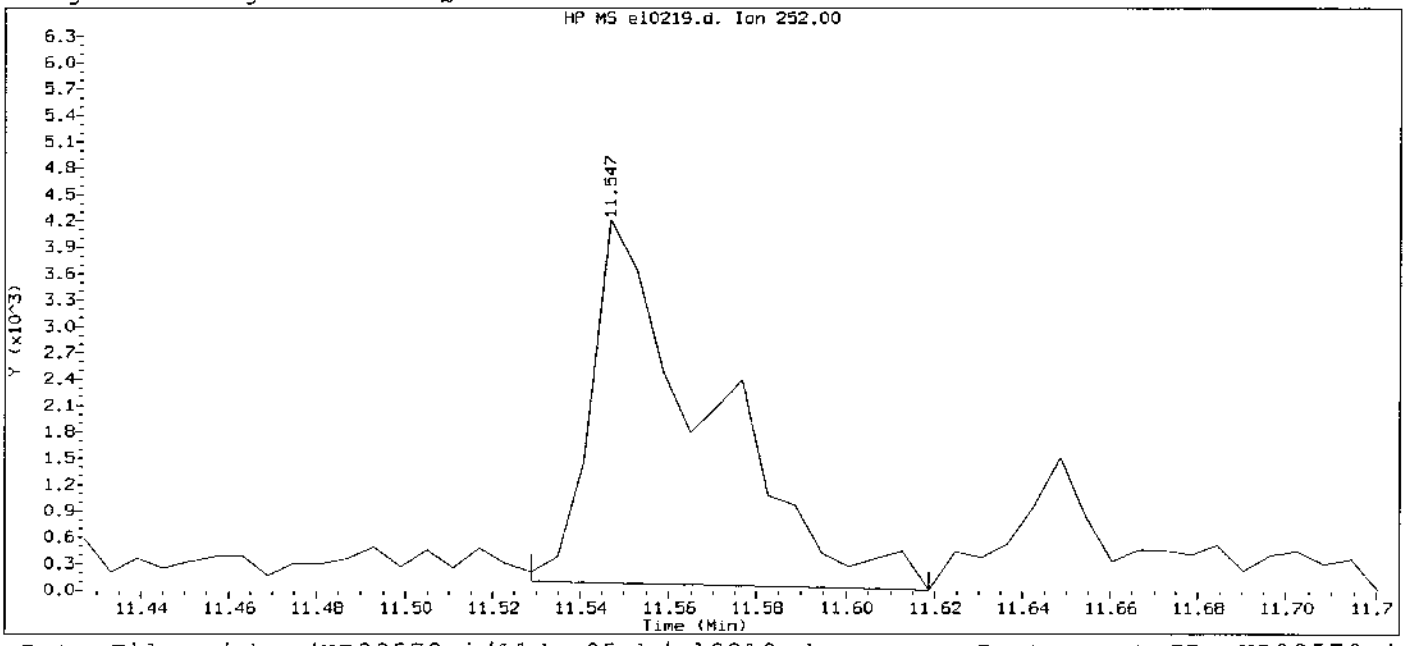
PCH09 9525

Secondary review performed and digitally signed by Rachel R Cochis on 12/08/2011 at 09:59.
Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:39 jrr02820

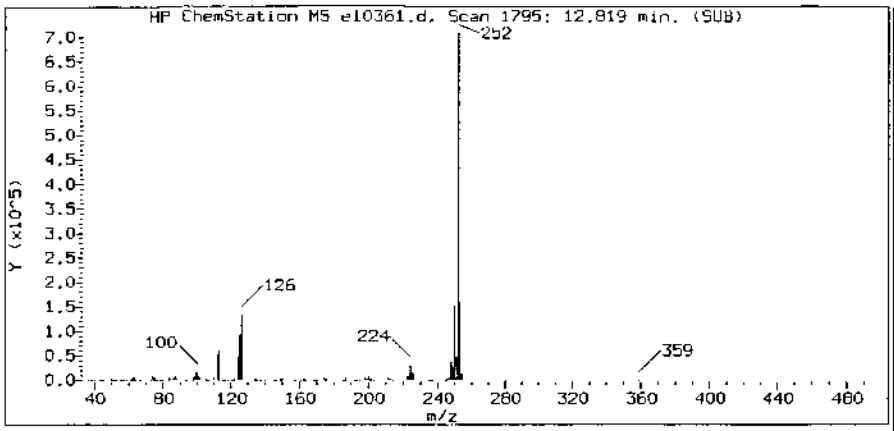
Sample Name: XXXXX Lab Sample ID: 6477569

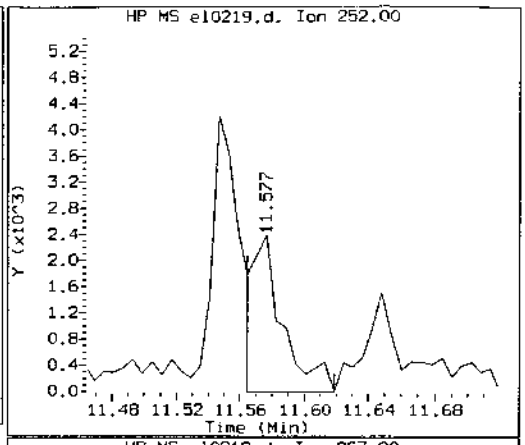
Compound Number	: 172
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1716
Retention Time (minutes)	: 11.547
Quant Ion	: 252.00
Area	: 7655
On-column Amount (ng/ul)	: 0.4244
Integration start scan	: 1712 Integration stop scan: 1727
Y at integration start	: 99 Y at integration end: 0

PCH09 8526

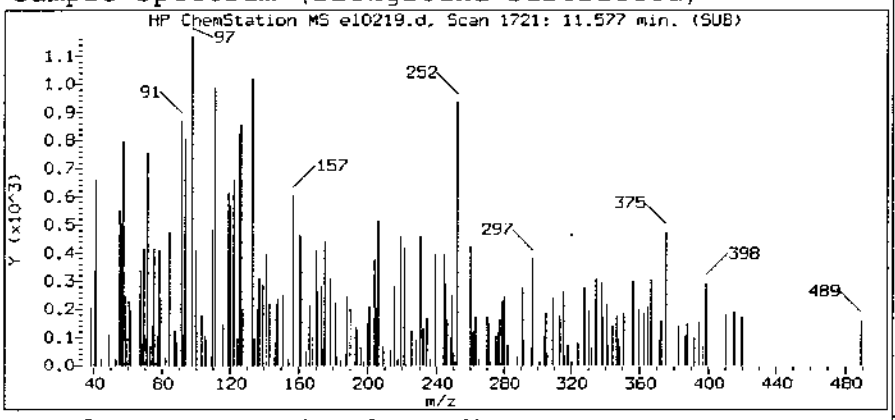
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

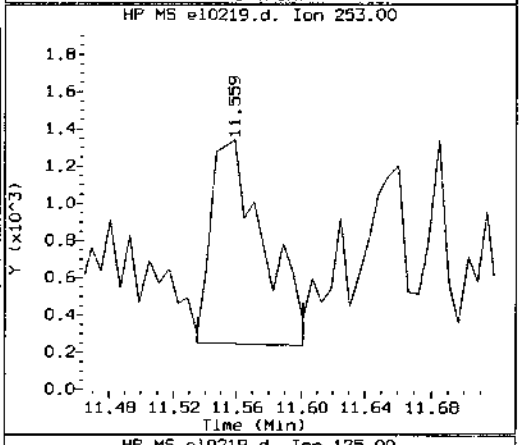
Reference Standard Spectrum for Benzo(k)fluoranthene



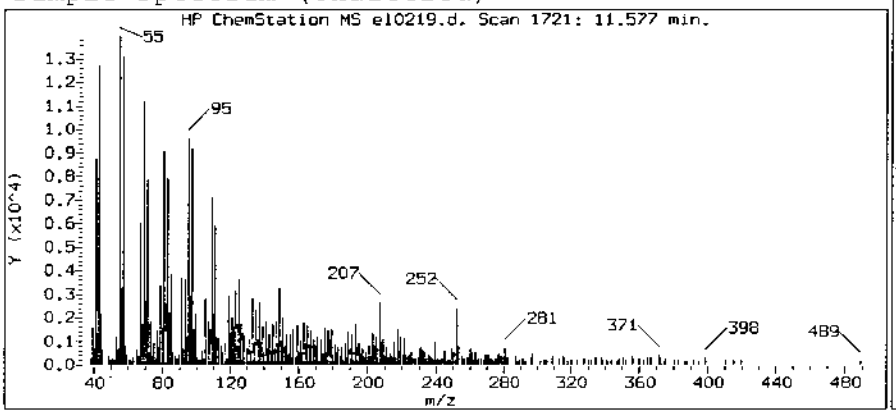


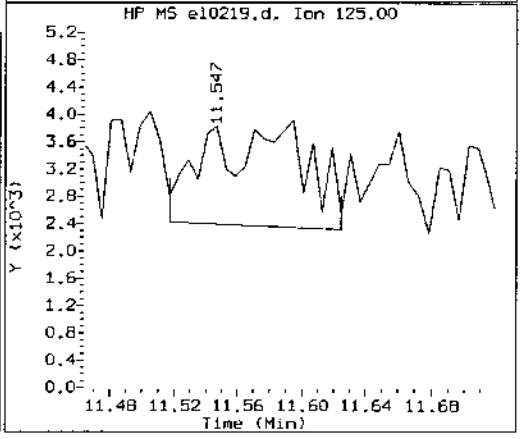
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

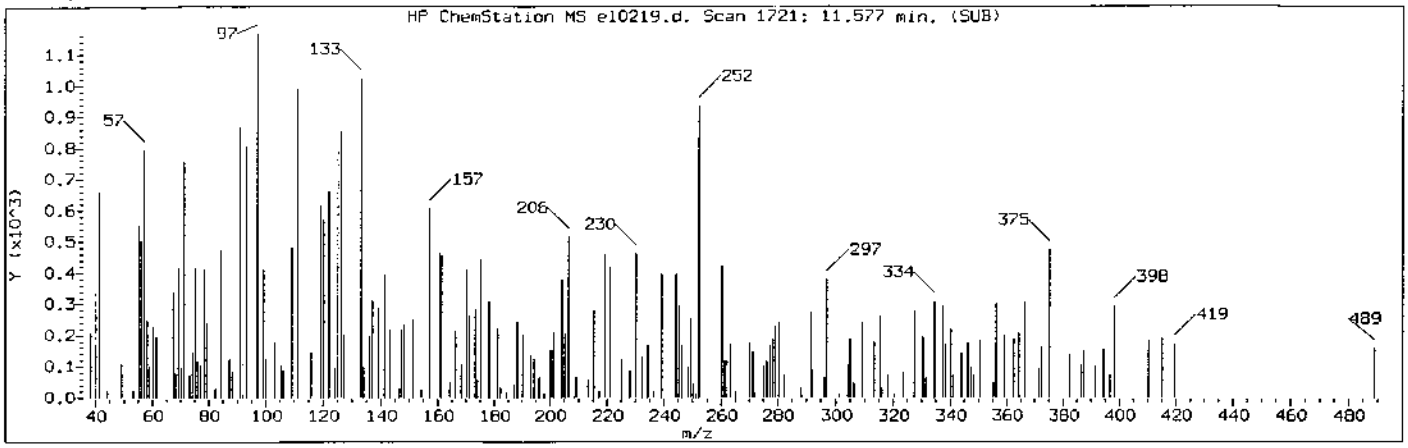
Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 173
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1721
Retention Time (minutes)	: 11.577
Relative Retention Time	: 0.00100
Quant Ion	: 252.00
Area (flag)	: 3547M
On-column Amount (ng/ul)	: 0.1943

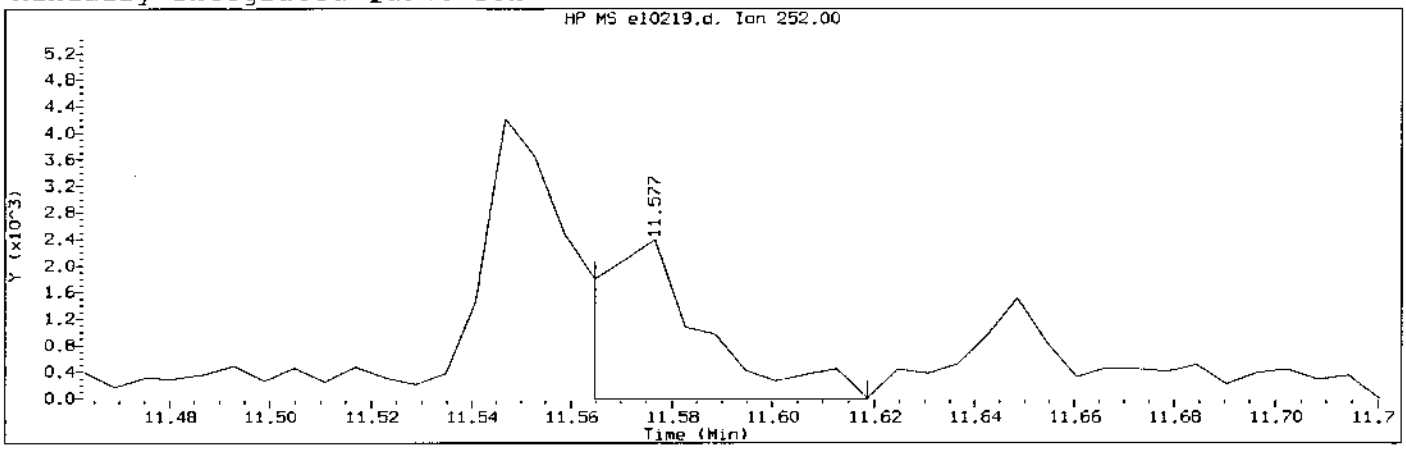
PCH09 8527

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number : 173
Compound Name : Benzo(k)fluoranthene
Scan Number : 1721
Retention Time (minutes) : 11.577
Quant Ion : 252.00
Area (flag) : 3547M
On-column Amount (ng/ul) : 0.1943
Integration start scan : 1718 Integration stop scan: 1727
Y at integration start : -9 Y at integration end: -9

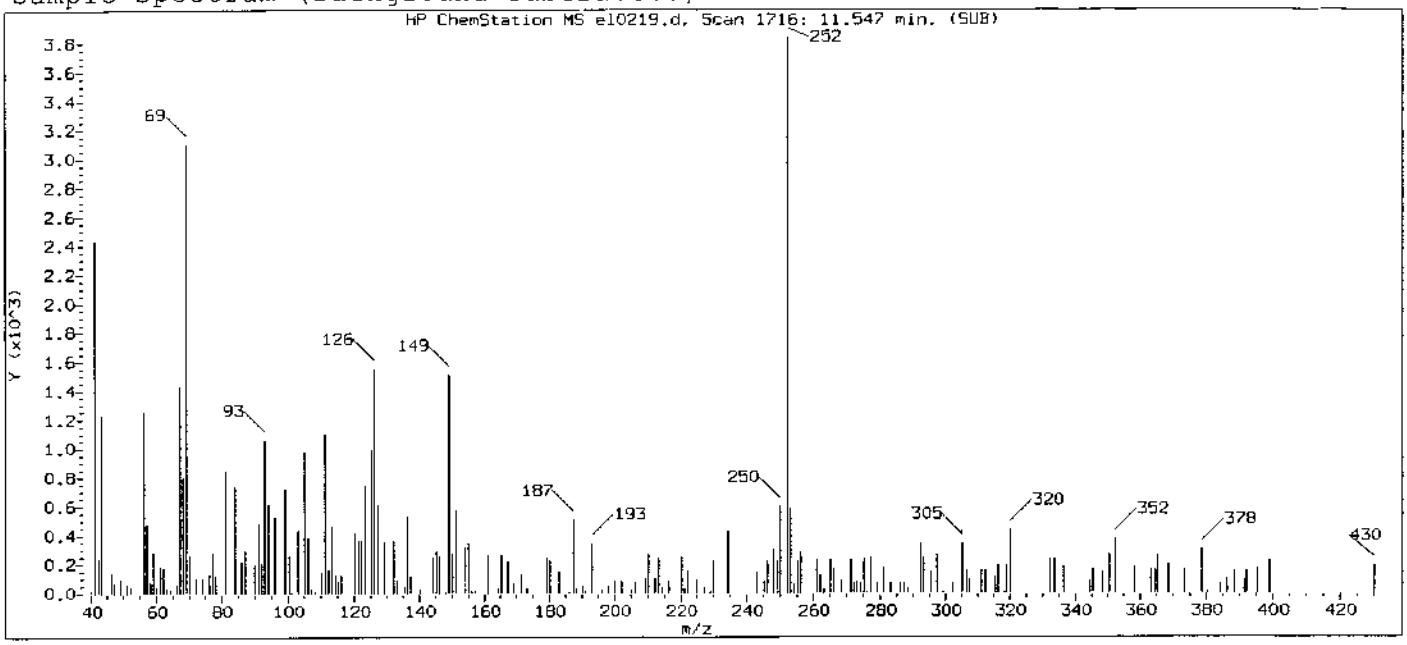
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56. Target 3.5 esignature user ID: msw02109

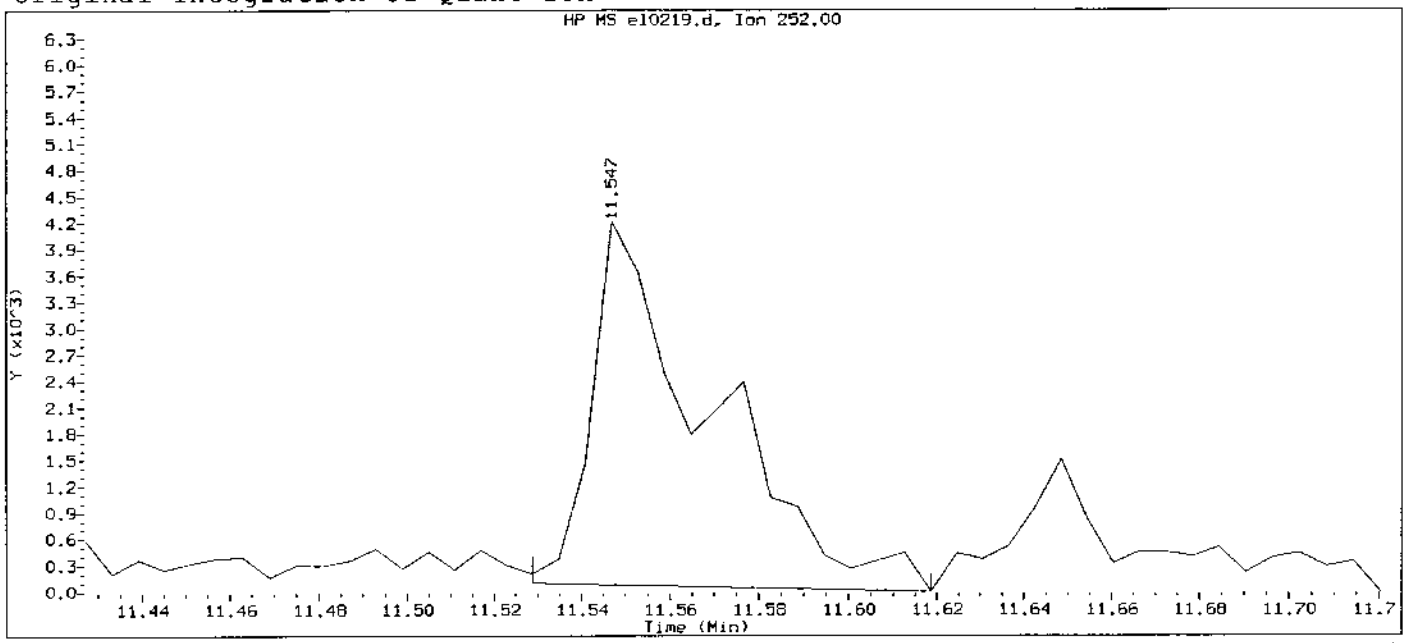
PCH89 #528

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59. Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:39 jrr02820

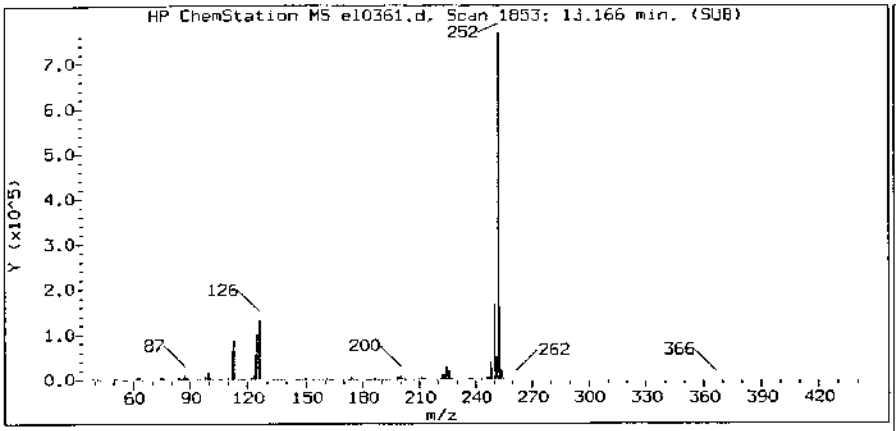
Sample Name: XXXXX Lab Sample ID: 6477569

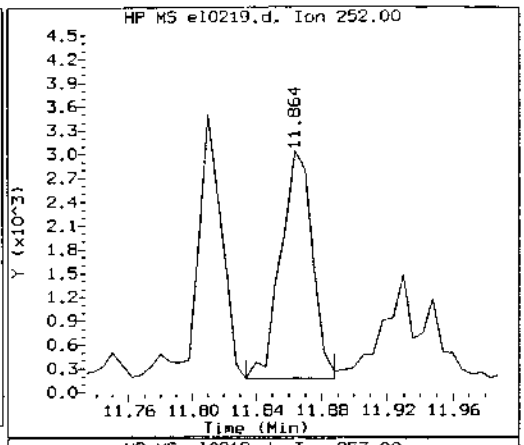
Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1716
Retention Time (minutes)	:	11.547
Quant Ion	:	252.00
Area	:	7660
On-column Amount (ng/ul)	:	0.4196
Integration start scan	:	1712
Integration stop scan	:	1727
Y at integration start	:	97
Y at integration end	:	0

PCH89 8529

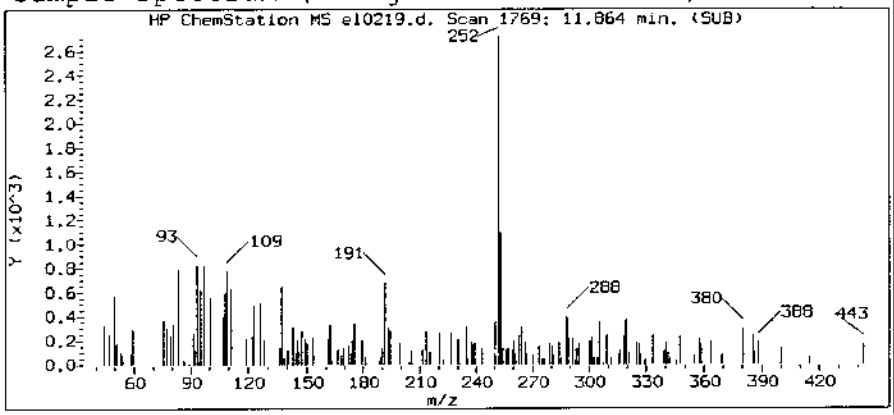
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

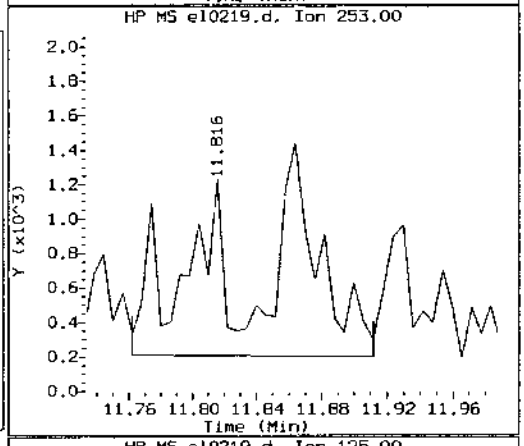
Reference Standard Spectrum for Benzo(a)pyrene



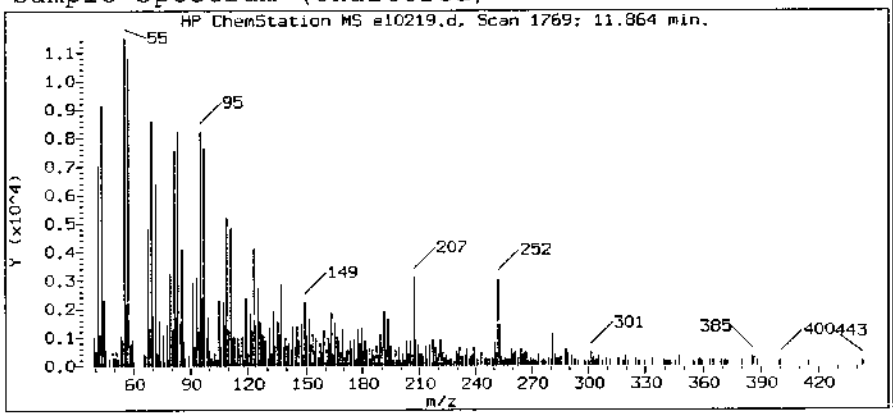


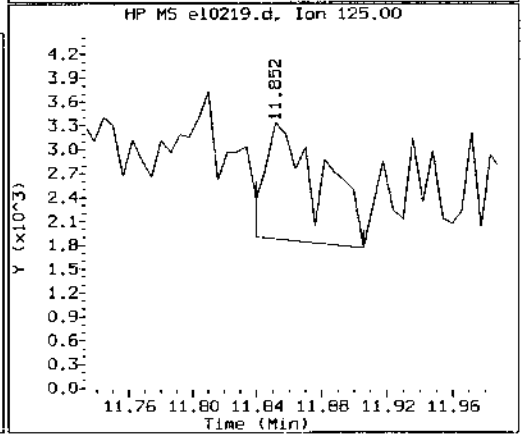
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

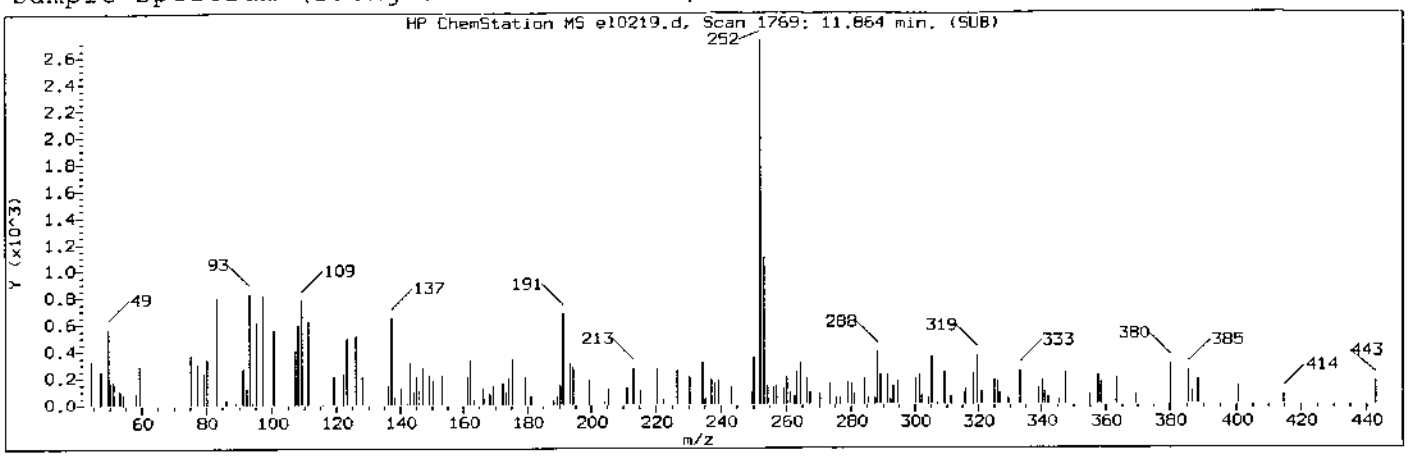
Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 174
Compound Name	: Benzo(a)pyrene
Scan Number	: 1769
Retention Time (minutes)	: 11.864
Relative Retention Time	: 0.00050
Quant Ion	: 252.00
Area (flag)	: 3820M
On-column Amount (ng/ul)	: 0.2392

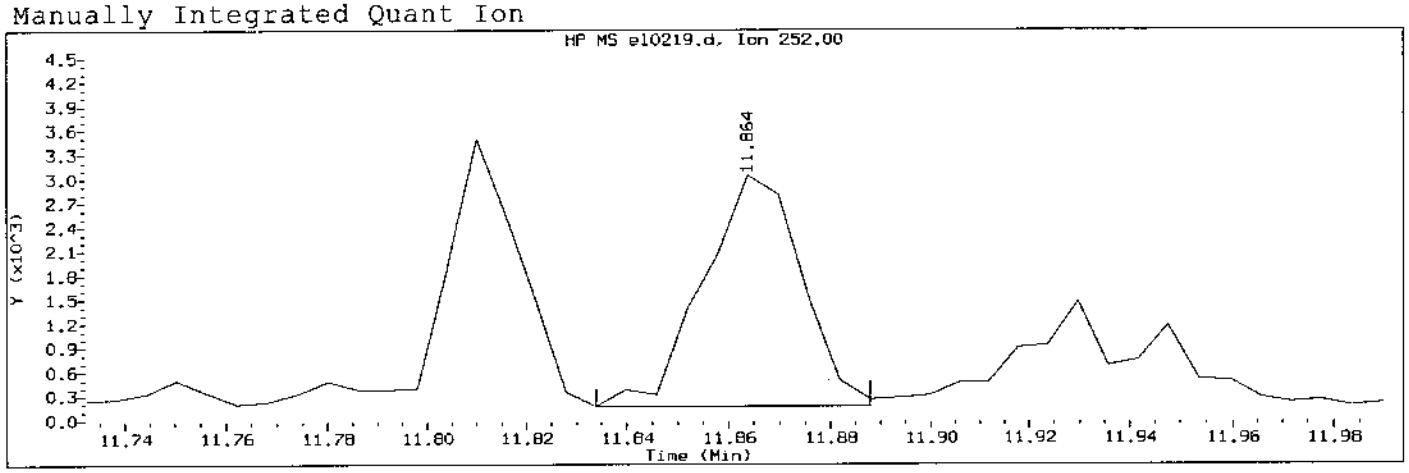
PCH69 8538

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 174		
Compound Name	: Benzo(a)pyrene		
Scan Number	: 1769		
Retention Time (minutes)	: 11.864		
Quant Ion	: 252.00		
Area (flag)	: 3820M		
On-column Amount (ng/ul)	: 0.2392		
Integration start scan	: 1763	Integration stop scan:	1772
Y at integration start	: 174	Y at integration end:	174

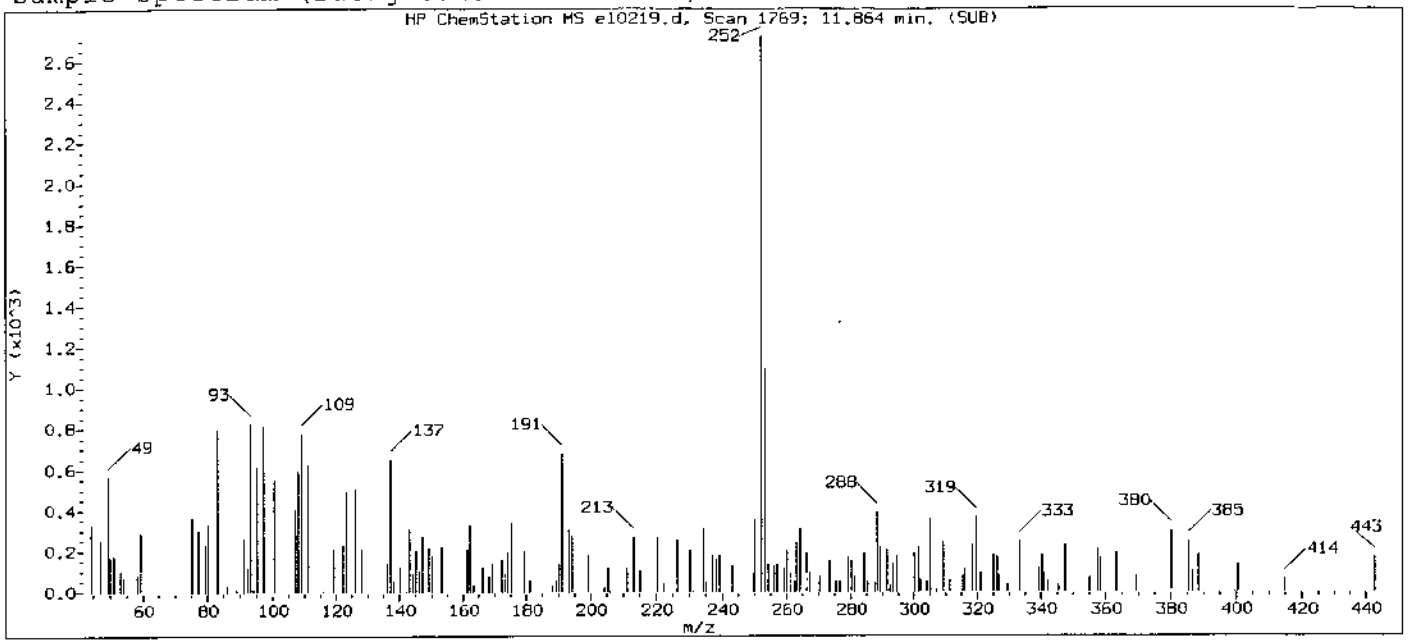
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

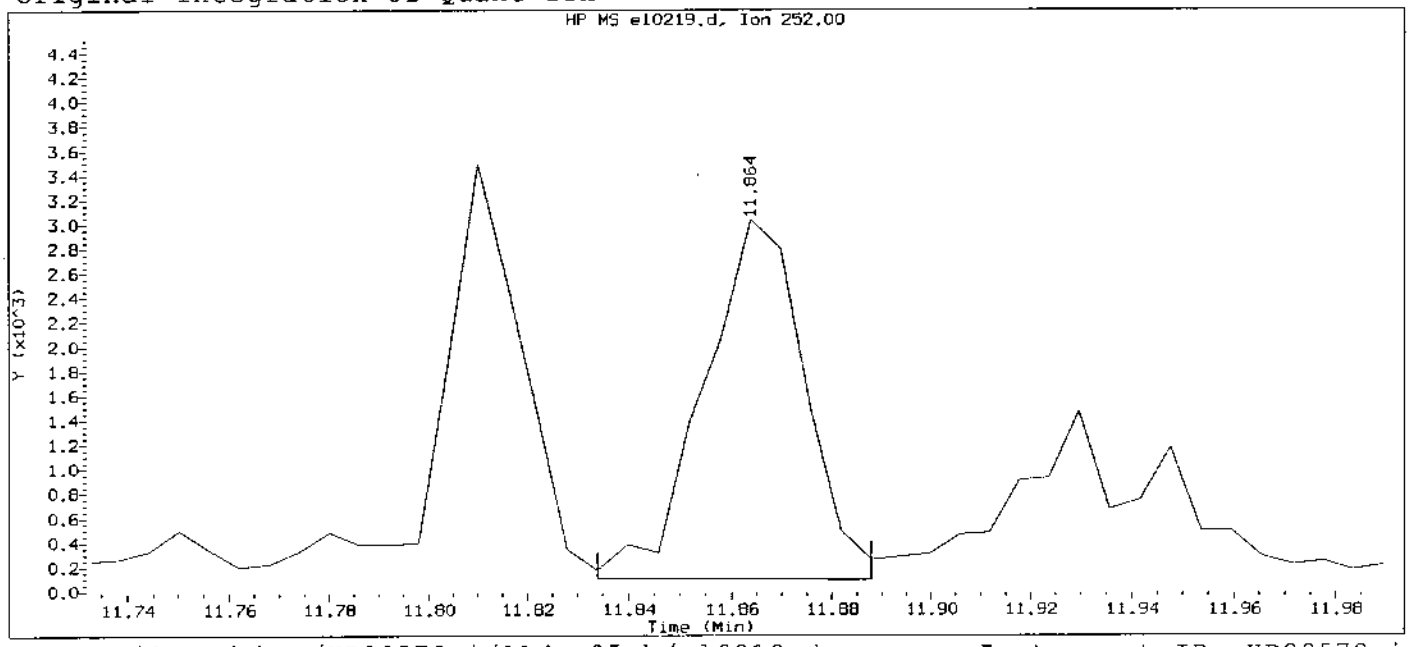
PCH89 8531

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59.
Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:39 jrr02820

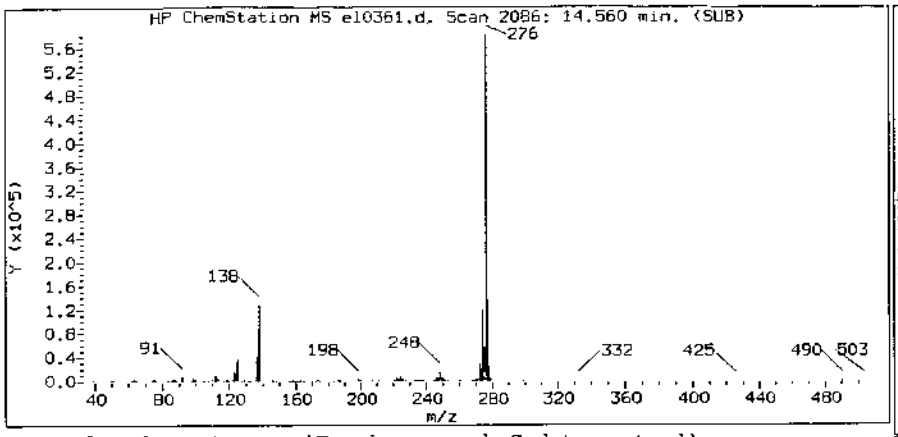
Sample Name: XXXXX Lab Sample ID: 6477569

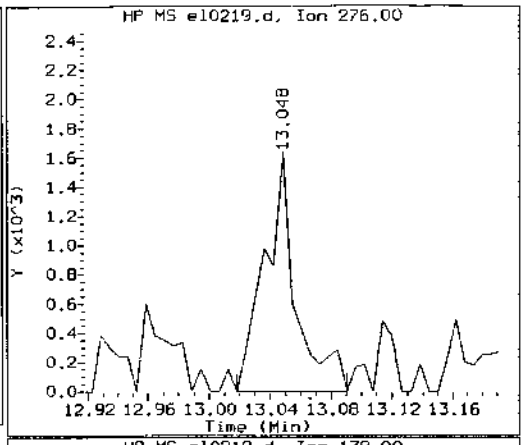
Compound Number	: 174		
Compound Name	: Benzo(a)pyrene		
Scan Number	: 1769		
Retention Time (minutes)	: 11.864		
Quant Ion	: 252.00		
Area	: 4033		
On-column Amount (ng/ul)	: 0.2526		
Integration start scan	: 1763	Integration stop scan:	1772
Y at integration start	: 109	Y at integration end:	97

PCH89 8532

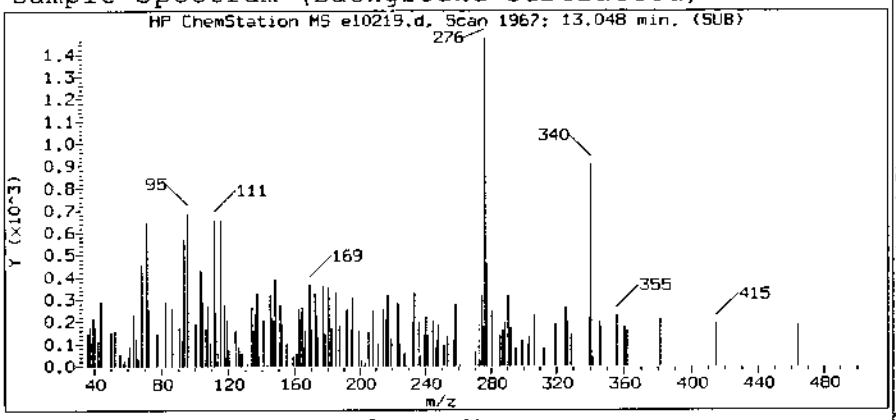
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56:
Target 3.5 esignature user ID: msw02109

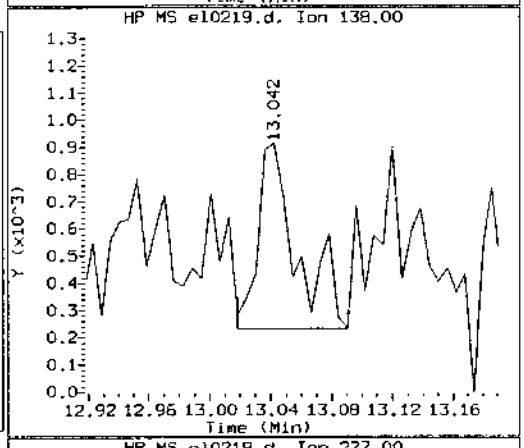
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



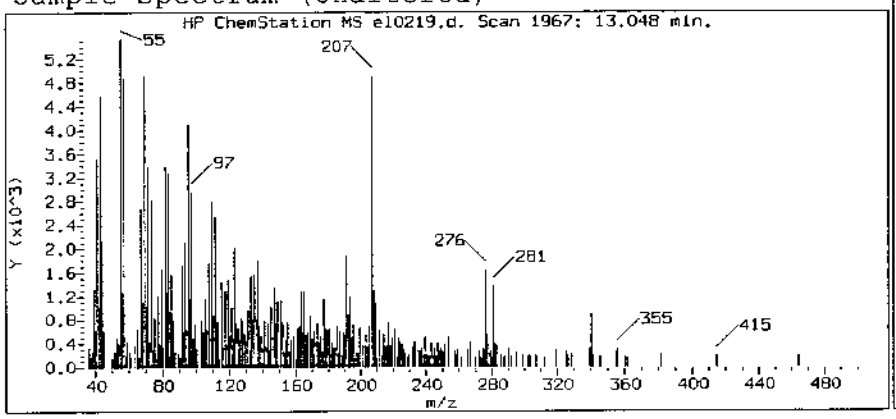


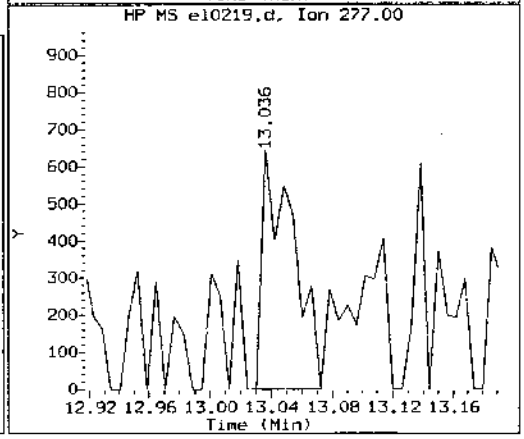
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

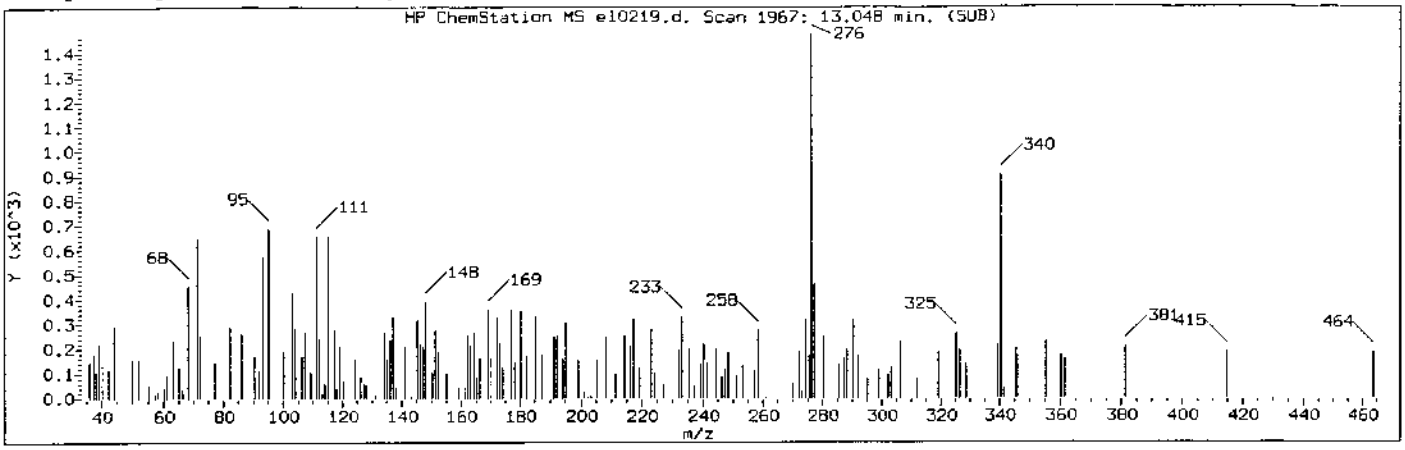
Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 177
Compound Name	: Indeno(1,2,3-cd)pyrene
Scan Number	: 1967
Retention Time (minutes)	: 13.048
Relative Retention Time	: 0.00050
Quant Ion	: 276.00
Area (flag)	: 2301AM
On-column Amount (ng/ul)	: 0.1391

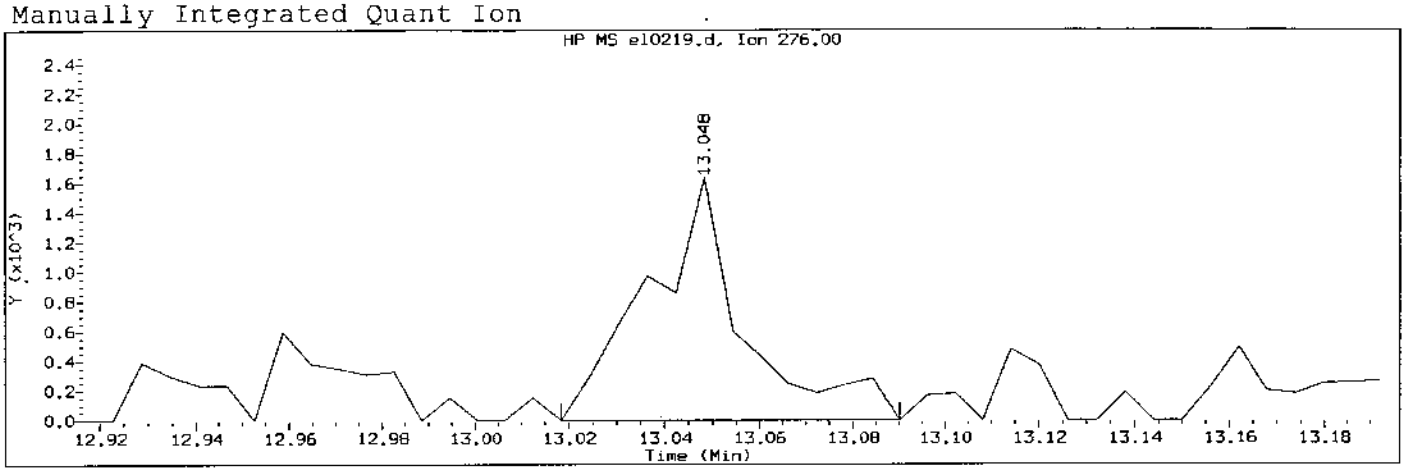
PCH09 6533

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 177		
Compound Name	: Indeno(1,2,3-cd)pyrene		
Scan Number	: 1967		
Retention Time (minutes)	: 13.048		
Quant Ion	: 276.00		
Area (flag)	: 2301AM		
On-column Amount (ng/ul)	: 0.1391		
Integration start scan	: 1961	Integration stop scan:	1973
Y at integration start	: 0	Y at integration end:	0

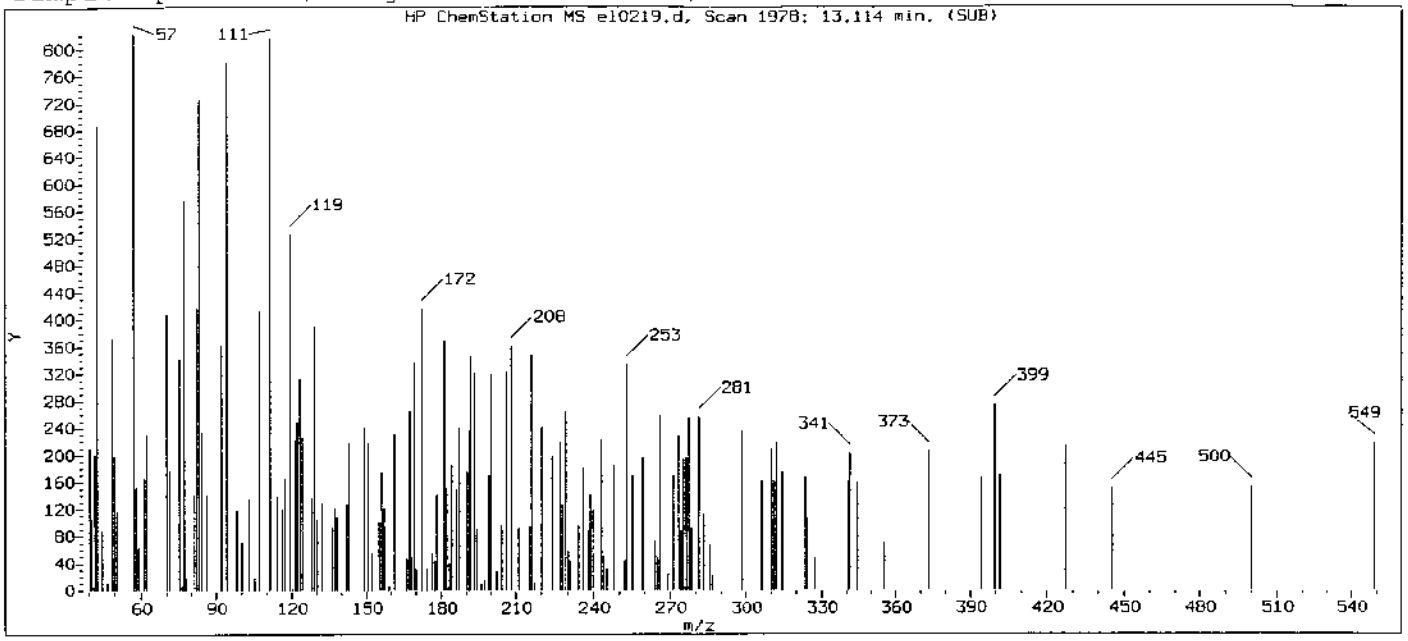
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

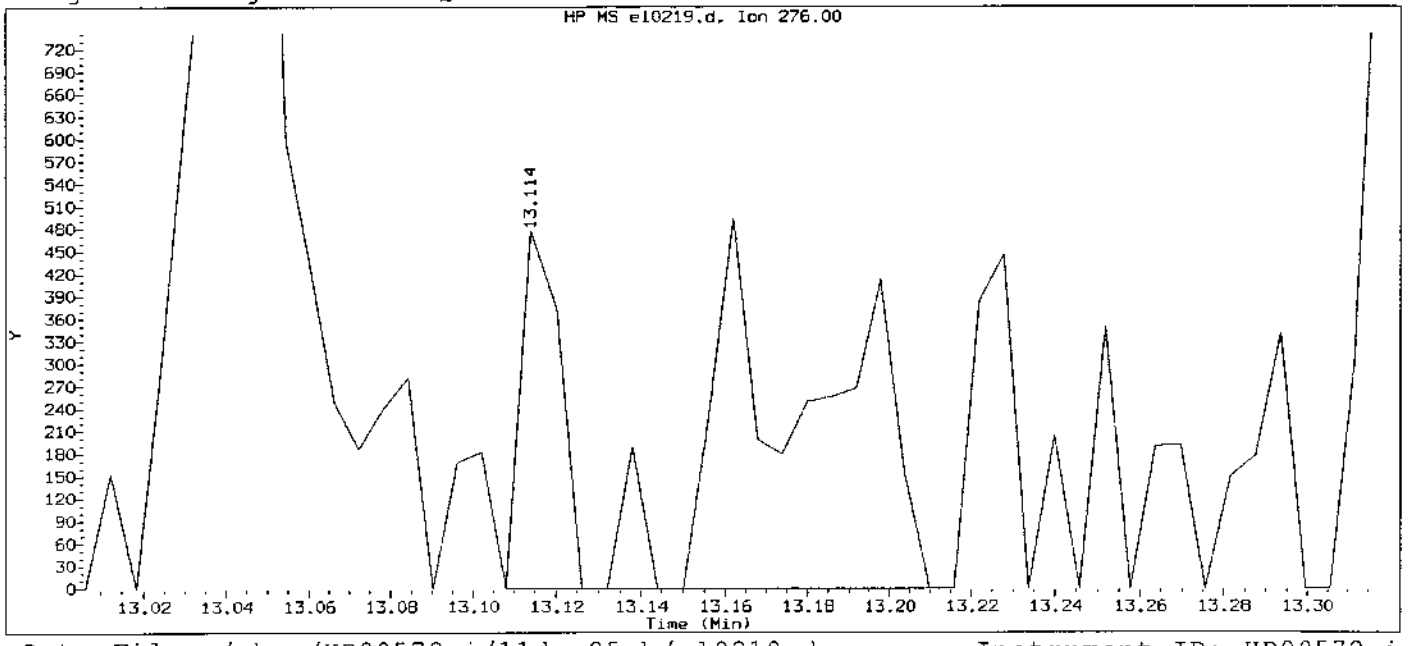
PCH89 8534

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59.
Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:39 jrr02820

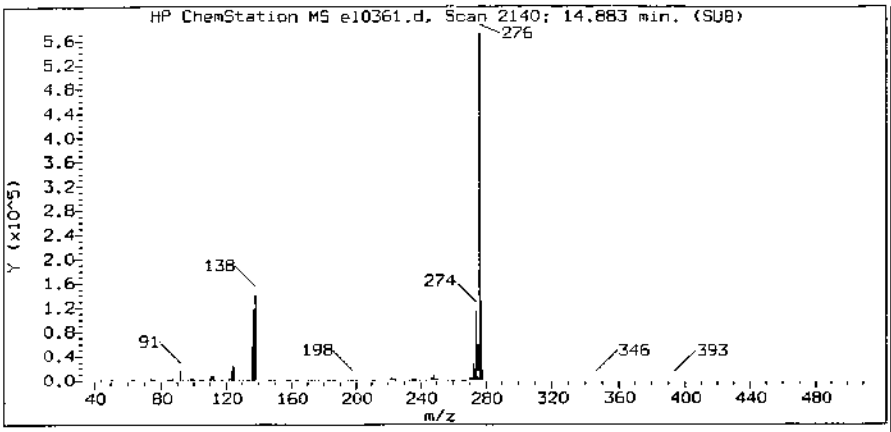
Sample Name: XXXXX Lab Sample ID: 6477569

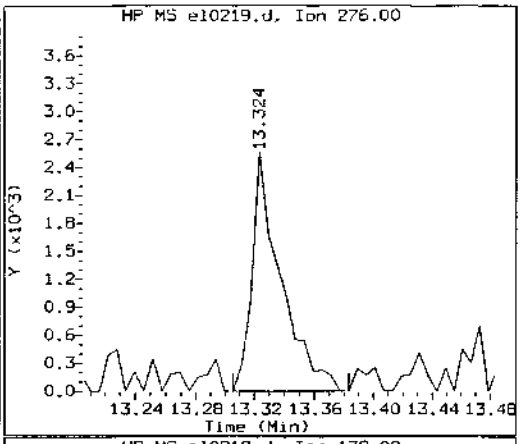
Compound Number	: 177		
Compound Name	: Indeno(1,2,3-cd)pyrene		
Scan Number	: 1978		
Retention Time (minutes)	: 13.114		
Quant Ion	: 276.00		
Area	: 1249		
On-column Amount (ng/ul)	: 0.0755		
Integration start scan	: 1976	Integration stop scan:	1994
Y at integration start	: 0	Y at integration end:	0

PCH89 8535

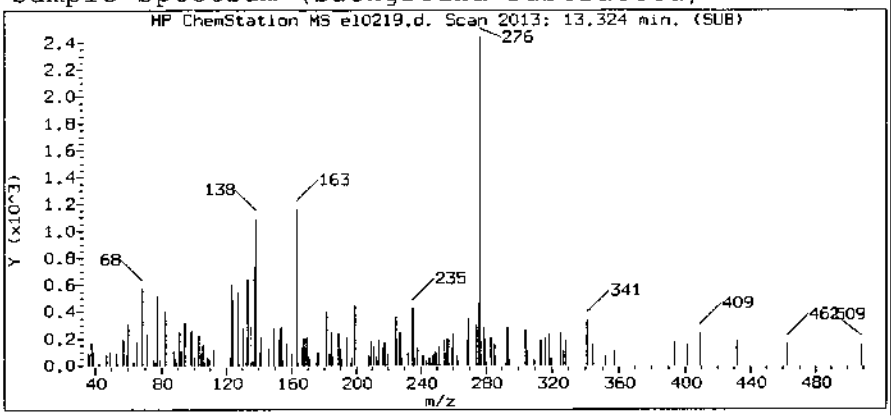
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56:
Target 3.5 esignature user ID: msw02109

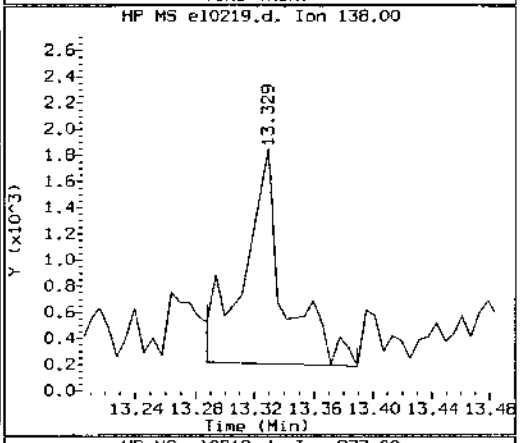
Reference Standard Spectrum for Benzo(g,h,i)perylene



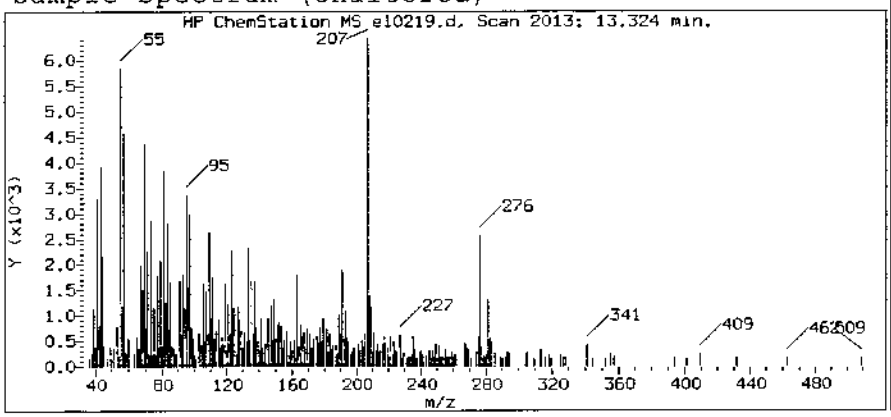


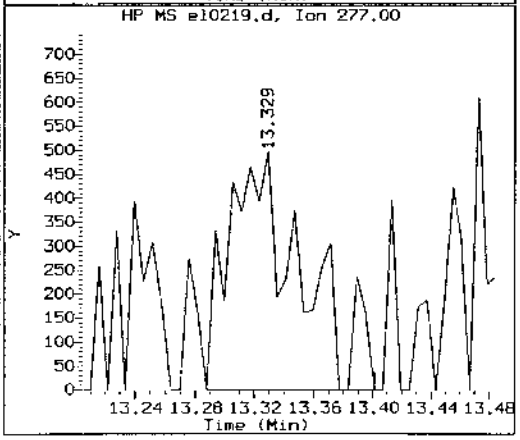
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

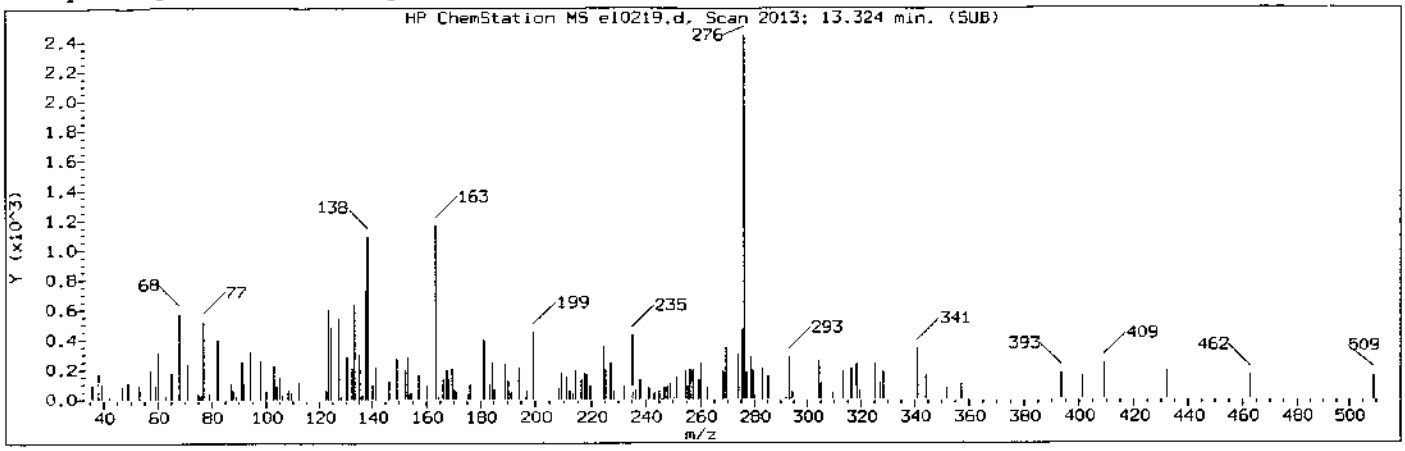
Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 179
Compound Name	: Benzo(g,h,i)perylene
Scan Number	: 2013
Retention Time (minutes)	: 13.324
Relative Retention Time	: 0.00100
Quant Ion	: 276.00
Area (flag)	: 3419M
On-column Amount (ng/ul)	: 0.2421

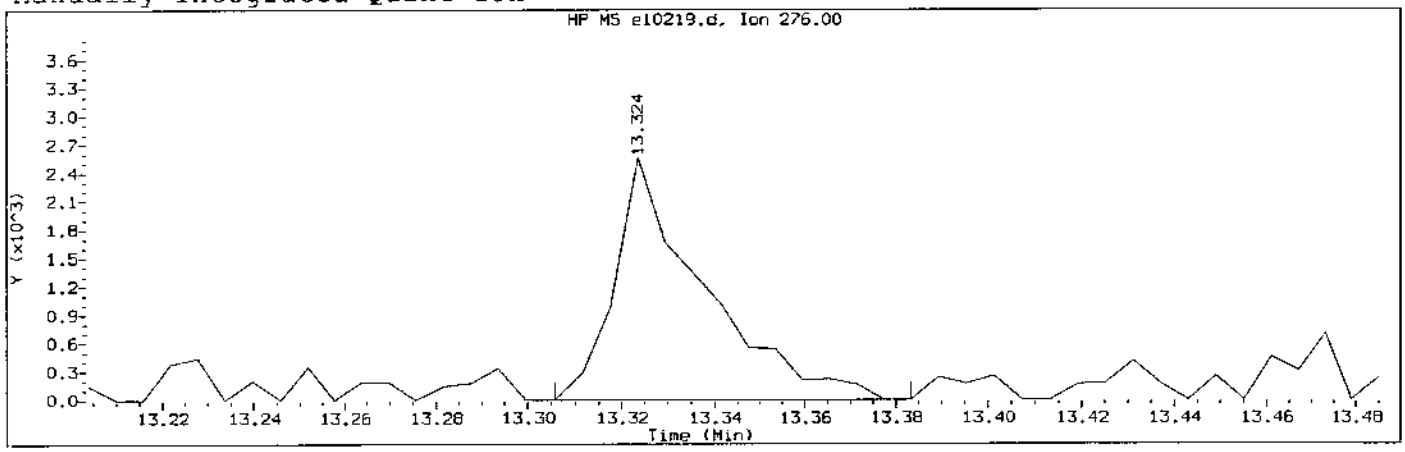
PCN09 8536

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 08-Dec-2011 09:56 msw02109

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 179		
Compound Name	: Benzo(g,h,i)perylene		
Scan Number	: 2013		
Retention Time (minutes)	: 13.324		
Quant Ion	: 276.00		
Area (flag)	: 3419M		
On-column Amount (ng/ul)	: 0.2421		
Integration start scan	: 2009	Integration stop scan:	2022
Y at integration start	: 0	Y at integration end:	0

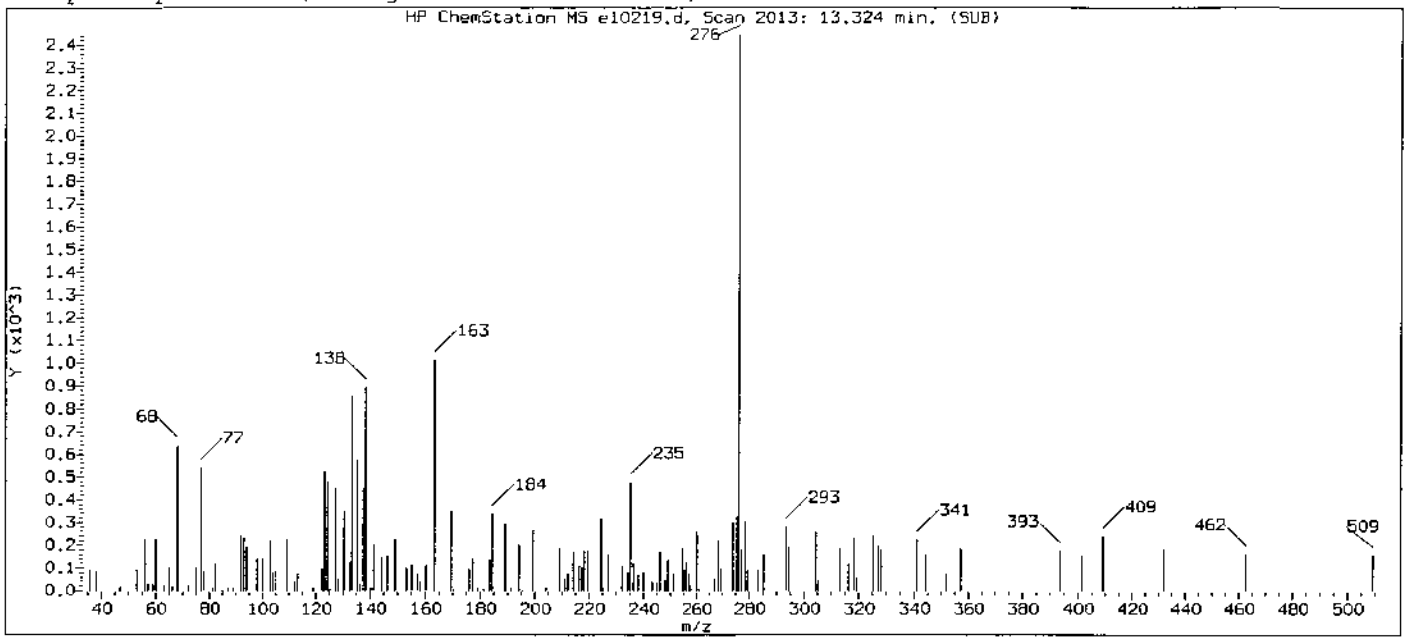
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

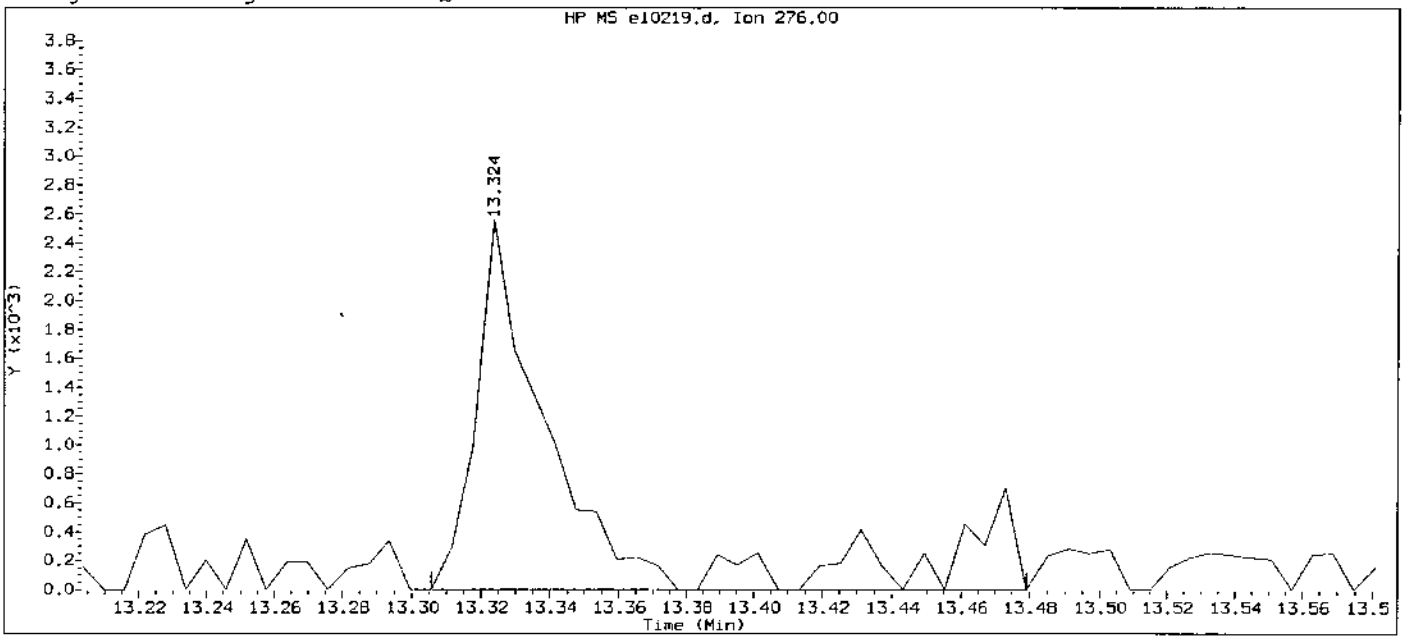
PCB89 8537

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59.
Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10219.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:39 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477569

Compound Number	: 179		
Compound Name	: Benzo(g,h,i)perylene		
Scan Number	: 2013		
Retention Time (minutes)	: 13.324		
Quant Ion	: 276.00		
Area	: 4605		
On-column Amount (ng/ul)	: 0.3260		
Integration start scan	: 2009	Integration stop scan:	2038
Y at integration start	: 0	Y at integration end:	0

PCB89 0538

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:56.
Target 3.5 esignature user ID: msw02109

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT4S

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477570

Sample wt/vol: 1046 (g/mL)ML Lab File ID: e10220.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ	UG/L	Q
91-20-3	Naphthalene		0.1	J
208-96-8	Acenaphthylene		0.2	J
83-32-9	Acenaphthene		0.5	U
86-73-7	Fluorene		0.5	U
85-01-8	Phenanthrene		0.5	U
120-12-7	Anthracene		0.5	U
206-44-0	Fluoranthene		0.5	U
129-00-0	Pyrene		0.1	J
56-55-3	Benzo(a)anthracene		0.5	U
218-01-9	Chrysene		0.5	U
205-99-2	Benzo(b)fluoranthene		0.5	U
207-08-9	Benzo(k)fluoranthene		0.5	U
50-32-8	Benzo(a)pyrene		0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.5	U
53-70-3	Dibenz(a,h)anthracene		0.5	U
191-24-2	Benzo(g,h,i)perylene		0.5	U

PCH09#8539

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477570

Data file: /chem/HP09572.i/11dec05.b/el0220.d
Data file Sample Info. Line: XXXXX;6477570;
Date, time and analyst ID of latest file update: 05-Dec-2011 20:40 jrr02820

Injection date and time: **05-DEC-2011 16:29**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1046 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	4.625	(-0.006)	559	152	85261	(-16)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	385220	(-18)	20.00	
98) Acenaphthene-d10	7.264	(0.000)	1000	164	243134	(-21)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	429616	(-19)	20.00	
167) Pyrene-d10	9.615	(0.000)	1393	212	467846	(-27)	20.00	
175) Perylene-d12	11.918	(0.006)	1778	264	323492	(-28)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	725954	86.804	87%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731	(0.000)	172	1453391	98.783	99%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1353836	95.932	96%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)	5.810	(0.000)	128	2641M	0.125	0.12			0.1
95) Acenaphthylene	(3)	7.150	(-0.000)	152	3640	0.180	0.17			0.1
99) Acenaphthene	(3)				Not Detected					0.1
111) Fluorene	(3)				Not Detected					0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)				Not Detected					0.1
147) Fluoranthene	(4)				Not Detected					0.1
154) Pyrene	(5)	9.627	(0.000)	202	3449M	0.135	0.13			0.1
166) Benzo(a)anthracene	(5)				Not Detected					0.1
168) Chrysene	(5)				Not Detected					0.1
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

M = Compound was manually integrated.

PCH09 8548

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58. Target 3.5 esignature user ID: msw02109

XXXXX Lancaster Labs
Analysis Summary for GC/MS Semivolatiles 6477570

Data file: /chem/HP09572.i/11dec05.b/el0220.d
Data file Sample Info. Line: XXXXX;6477570;
Date, time and analyst ID of latest file update: 05-Dec-2011 20:40 jrr02820

Injection date and time: **05-DEC-2011 16:29**
Instrument ID: **HP09572.i** Batch: **11325WAX**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1046 ml Volume Injected (Vi): 1 ul

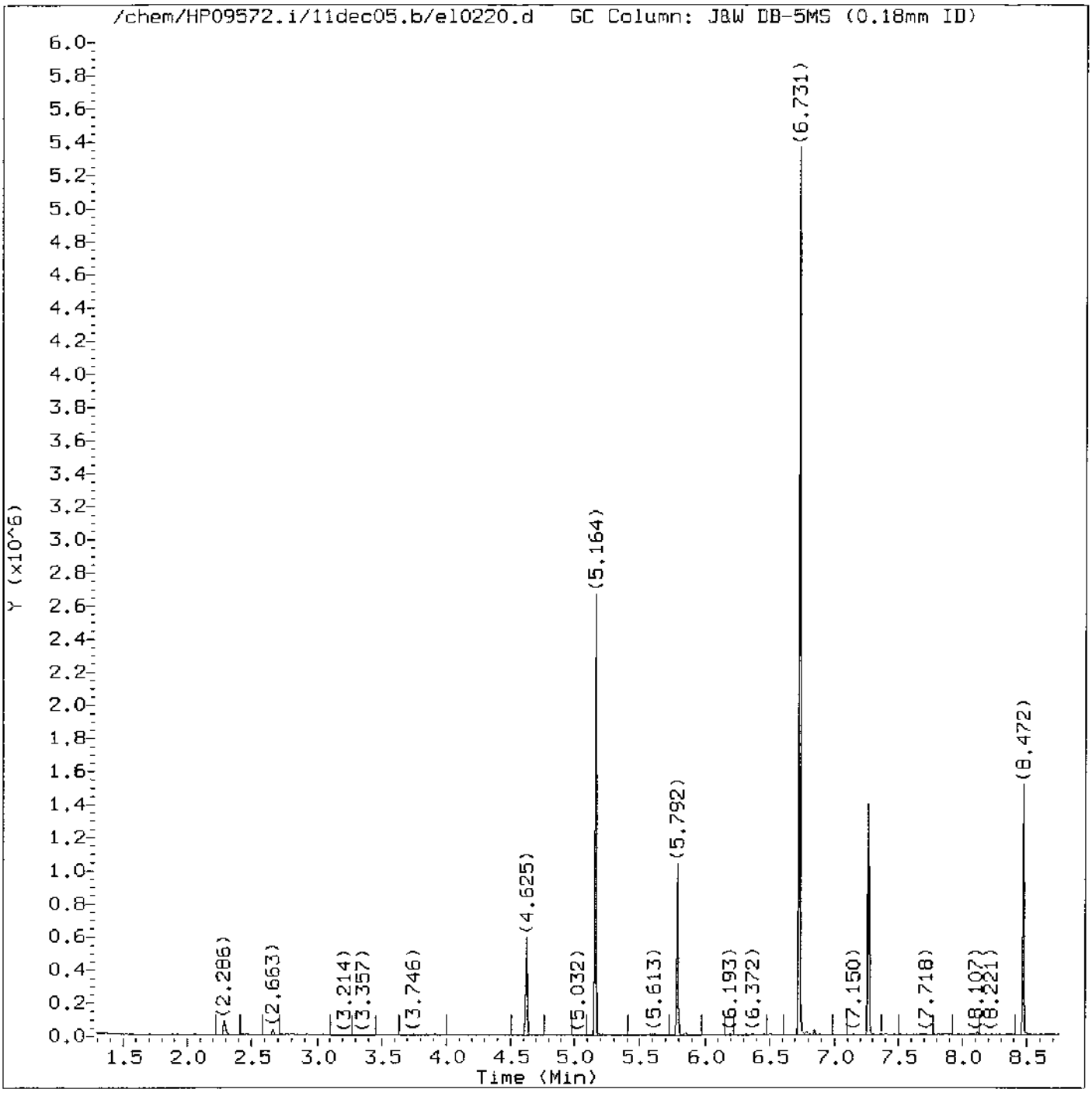
THIS SPACE
WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 16

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58. Target 3.5 esignature user ID: msw02109

PCH09 8541

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59. Parallax ID: rrc00863



Total Ion Chromatogram (TIC)

Target Revision 3.5

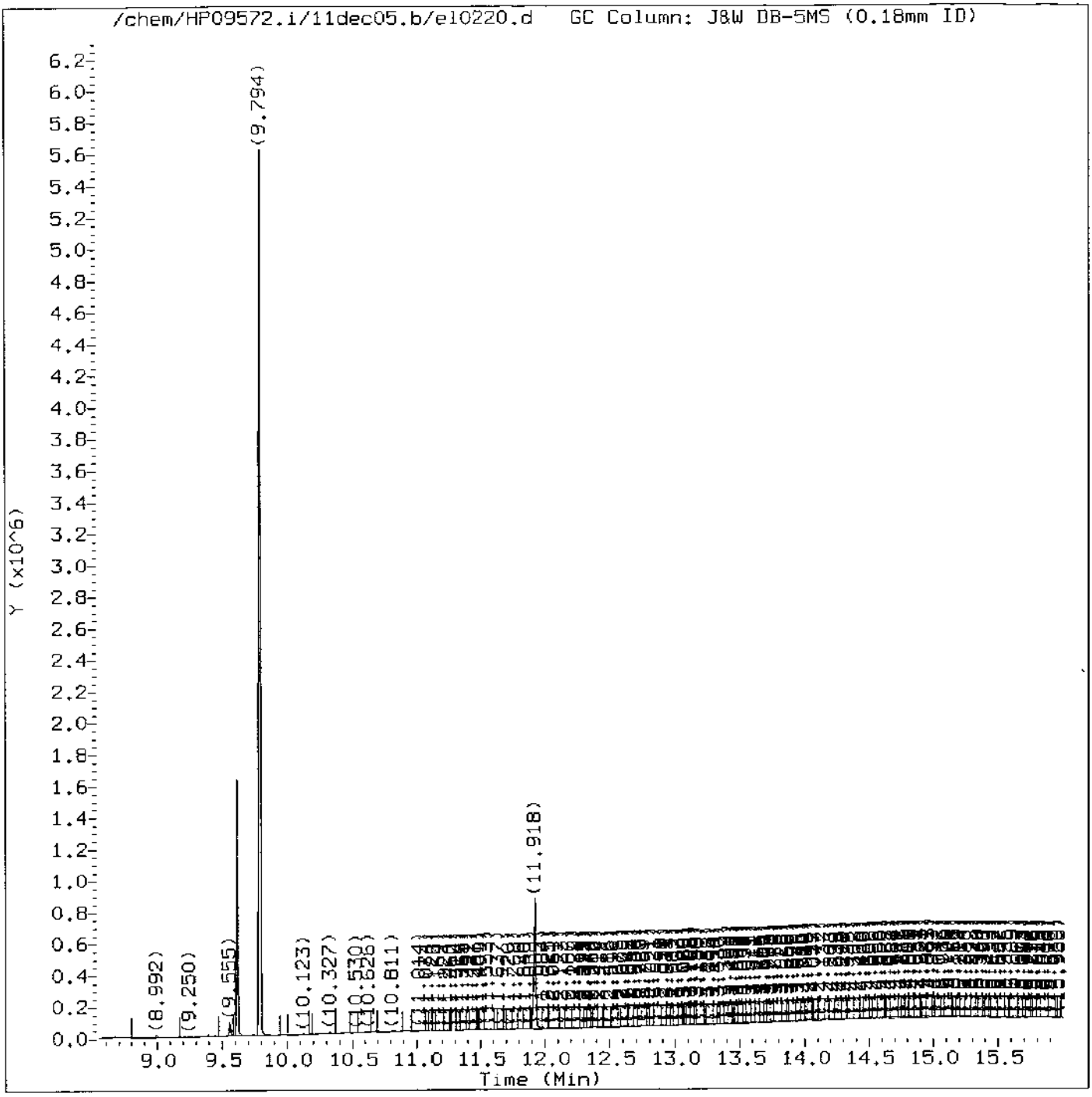
Data File: /chem/HP09572.i/11dec05.b/el0220.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:29 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:40 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477570

PCH89 0542

Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:58:
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0220.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:29 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:40 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477570

PCN89 8543

Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0220.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:29 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:40 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477570

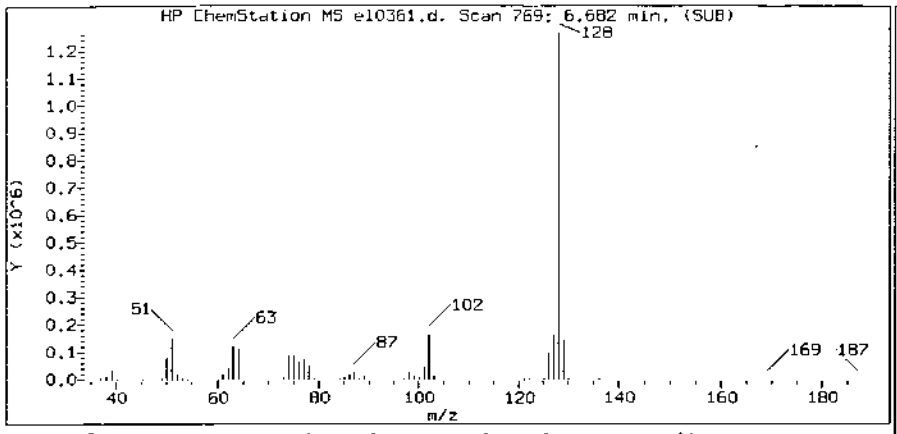
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	85261	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	725954	86.804
52)*Naphthalene-d8	(2)	5.792	136	385220	20.000
53) Naphthalene	(2)	5.810	128	2641M	0.125
78)$2-Fluorobiphenyl	(3)	6.731	172	1453391	98.783
95) Acenaphthylene	(3)	7.150	152	3640	0.180
98)*Acenaphthene-d10	(3)	7.264	164	243134	20.000
135)*Phenanthrene-d10	(4)	8.472	188	429616	20.000
167)*Pyrene-d10	(5)	9.615	212	467846	20.000
154) Pyrene	(5)	9.627	202	3449M	0.135
156)$Terphenyl-d14	(5)	9.794	244	1353836	95.932
175)*Perylene-d12	(6)	11.918	264	323492	20.000

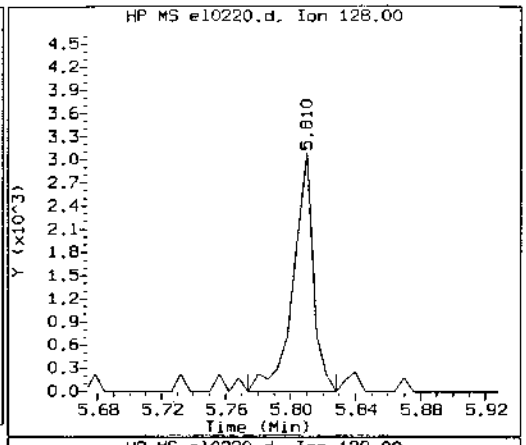
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PCH89 0544

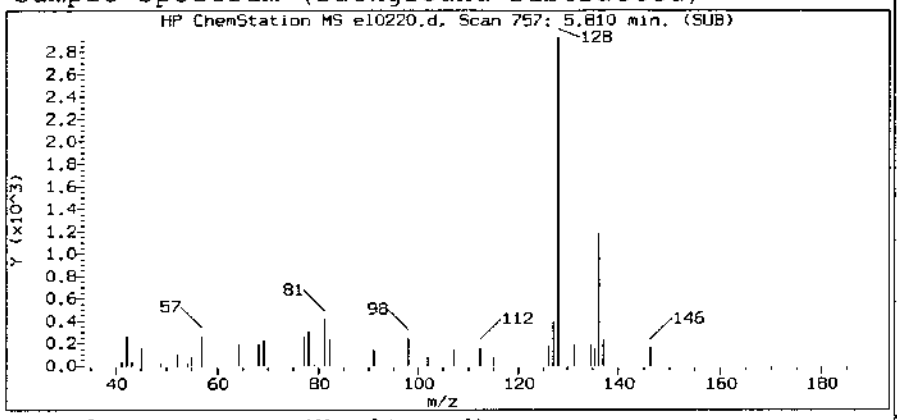
Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

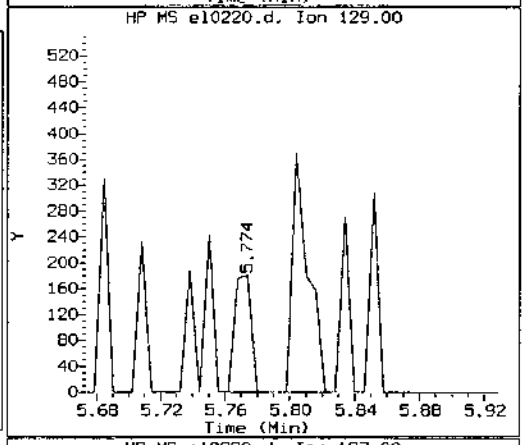
Reference Standard Spectrum for Naphthalene



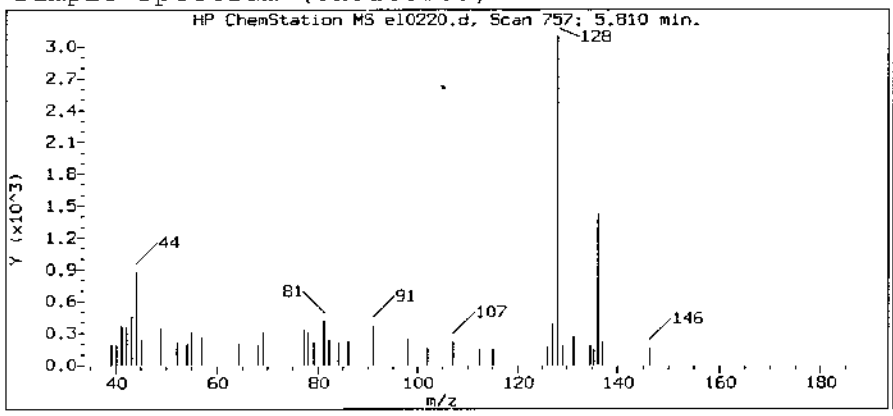


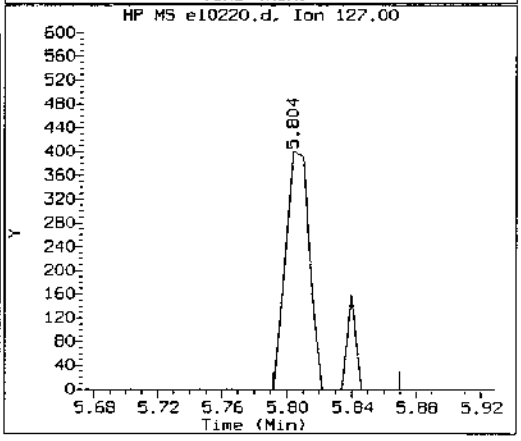
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/el0220.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:29 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:40 jrr02820

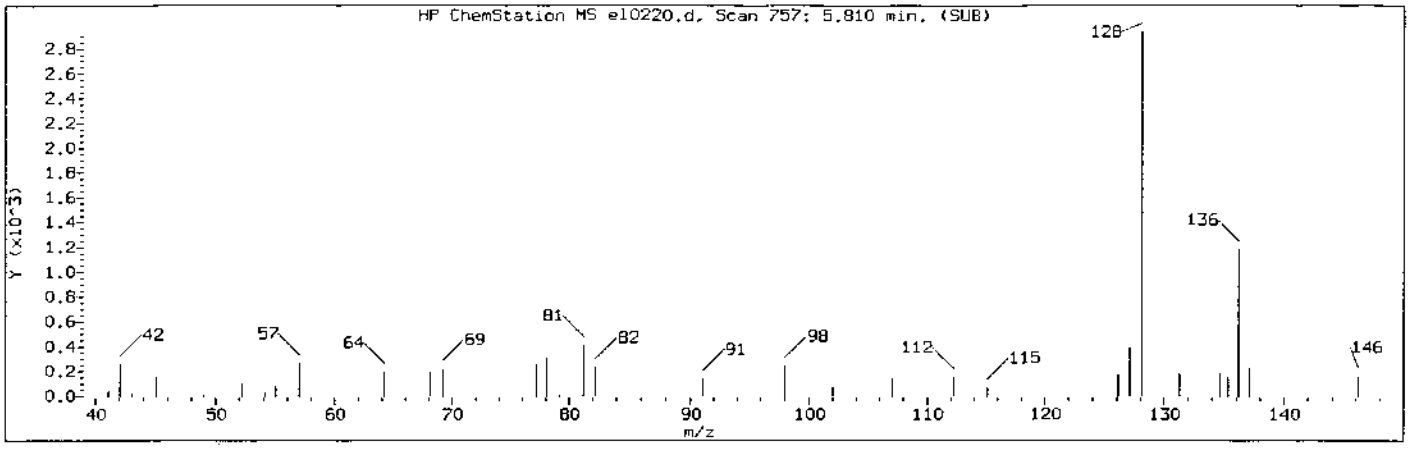
Sample Name: XXXXX Lab Sample ID: 6477570

Compound Number	: 53
Compound Name	: Naphthalene
Scan Number	: 757
Retention Time (minutes)	: 5.810
Relative Retention Time	: 0.00000
Quant Ion	: 128.00
Area (flag)	: 2641M
On-column Amount (ng/ul)	: 0.1249

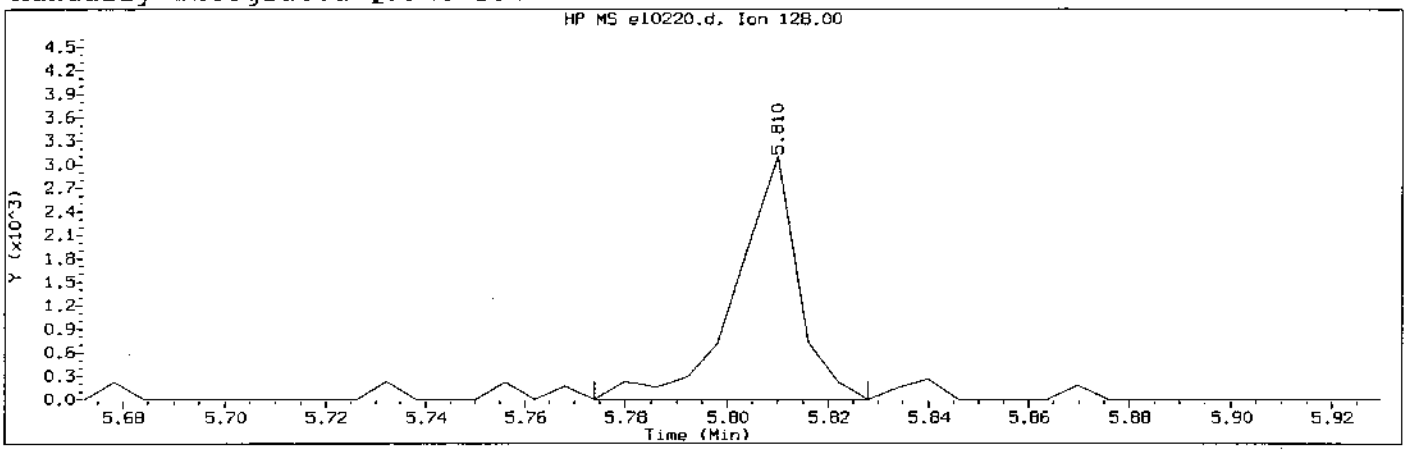
PCH09 8545

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10220.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:29 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:40 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477570

Compound Number	: 53		
Compound Name	: Naphthalene		
Scan Number	: 757		
Retention Time (minutes)	: 5.810		
Quant Ion	: 128.00		
Area (flag)	: 2641M		
On-column Amount (ng/ul)	: 0.1249		
Integration start scan	: 750	Integration stop scan:	759
Y at integration start	: 0	Y at integration end:	0

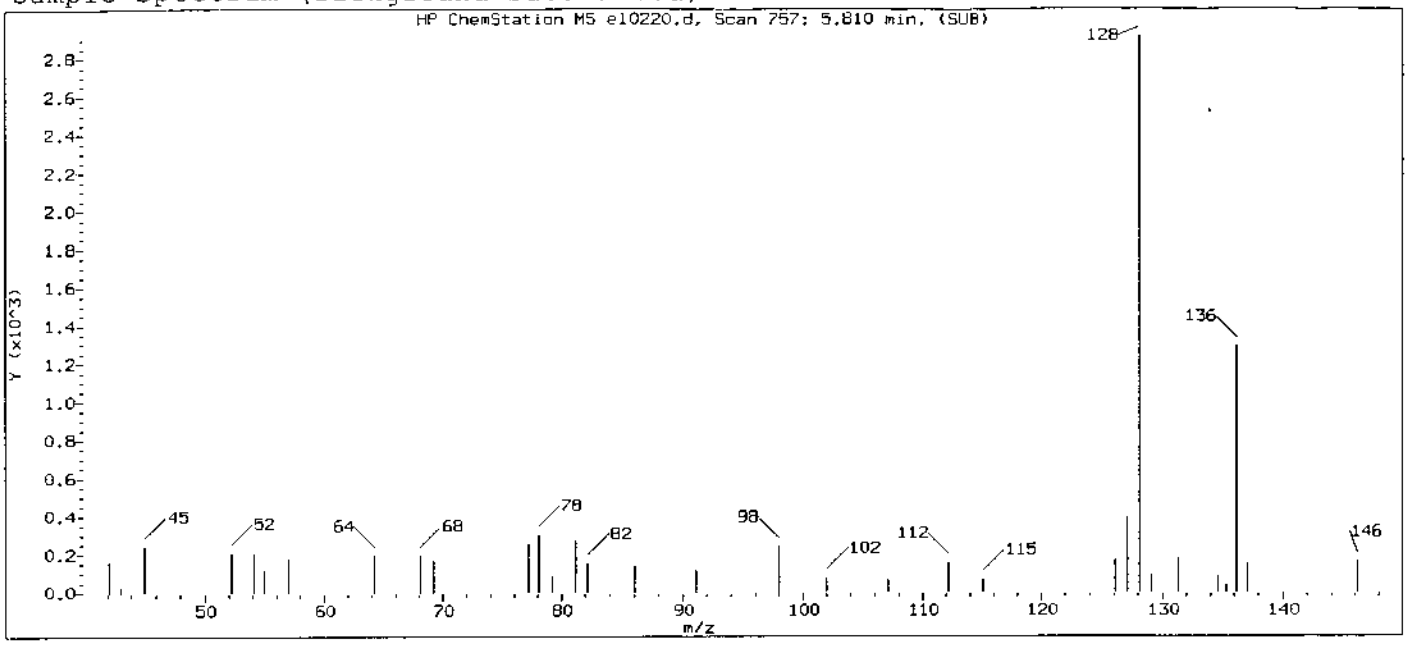
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58. Target 3.5 esignature user ID: msw02109

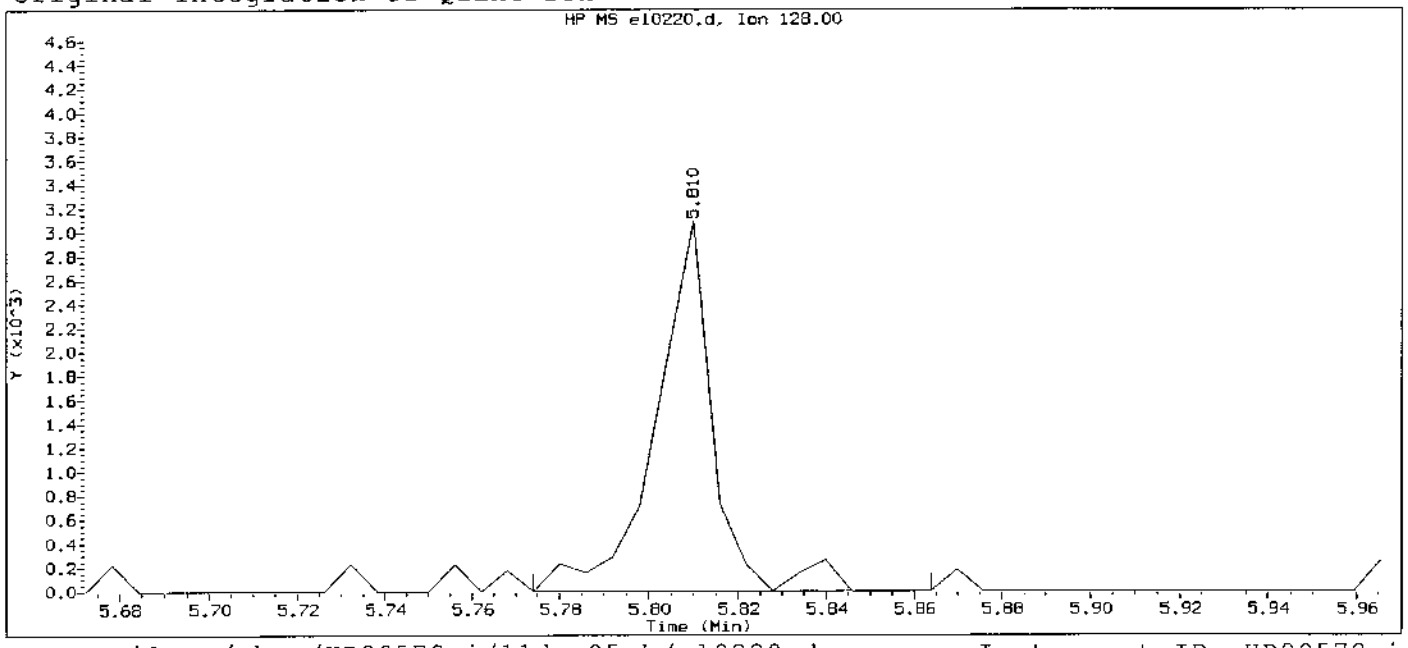
PCH69 8546

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59.
Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10220.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:29 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:51 Automation

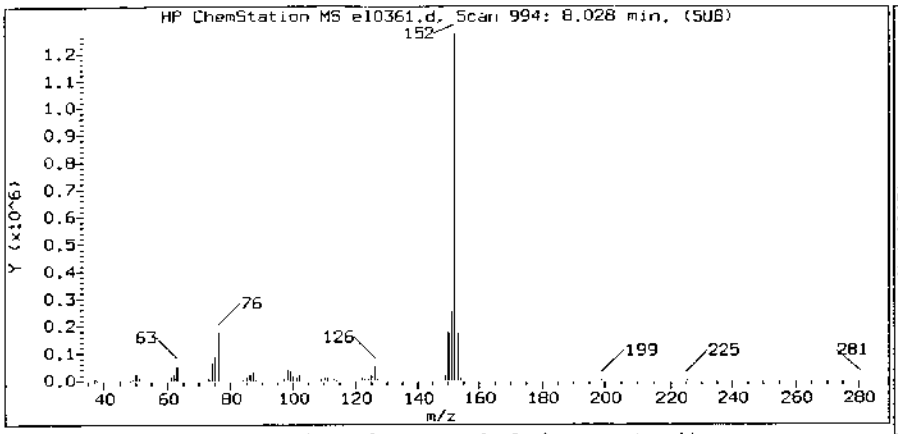
Sample Name: XXXXX Lab Sample ID: 6477570

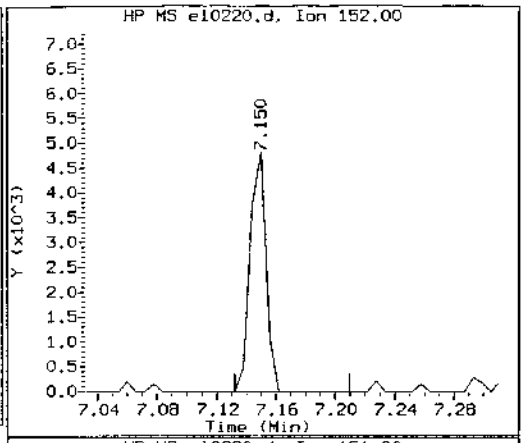
Compound Number	: 53
Compound Name	: Naphthalene
Scan Number	: 757
Retention Time (minutes)	: 5.810
Quant Ion	: 128.00
Area	: 2789
On-column Amount (ng/ul)	: 0.1319
Integration start scan	: 750
Integration stop scan	: 765
Y at integration start	: 0
Y at integration end	: 0

PCH09 0547

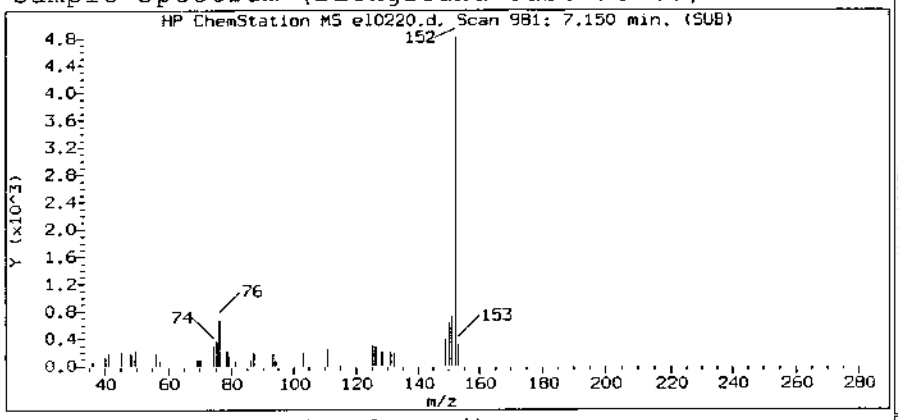
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58:
Target 3.5 esignature user ID: msw02109

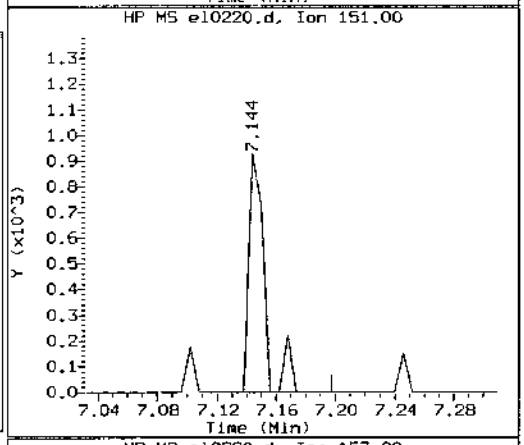
Reference Standard Spectrum for Acenaphthylene



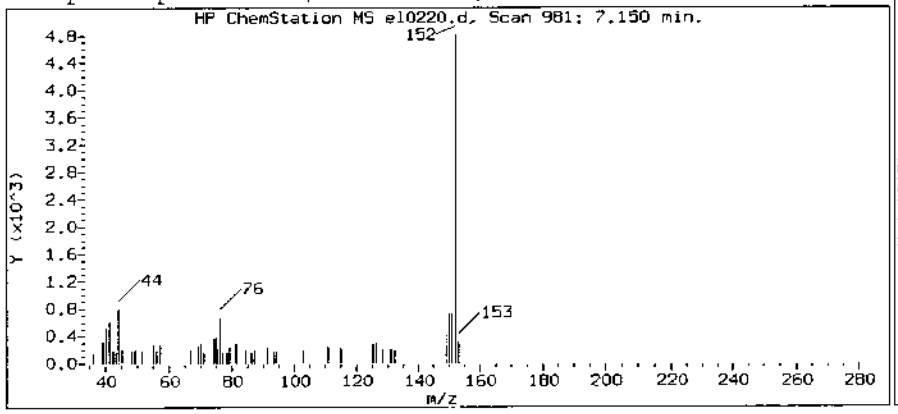


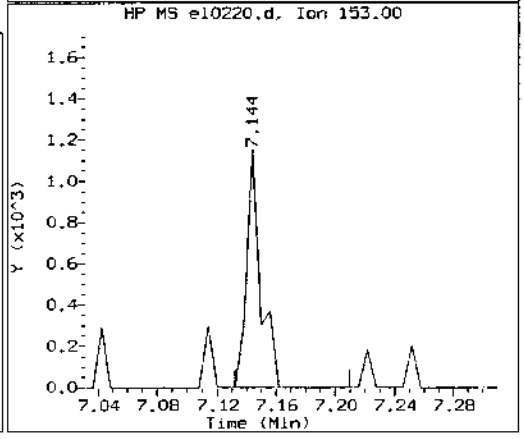
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10220.d
Injection date and time: 05-DEC-2011 16:29

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55

Sublist used: WPAH0826

Date, time and analyst ID of latest file update: 05-Dec-2011 20:40 jrr02820

Sample Name: XXXXX

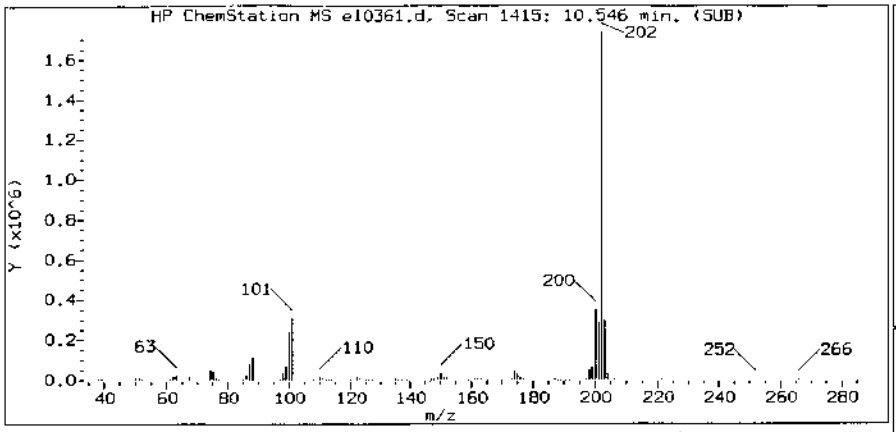
Lab Sample ID: 6477570

Compound Number	: 95
Compound Name	: Acenaphthylene
Scan Number	: 981
Retention Time (minutes)	: 7.150
Relative Retention Time	:-0.00000
Quant Ion	: 152.00
Area (flag)	: 3640
On-column Amount (ng/ul)	: 0.1796

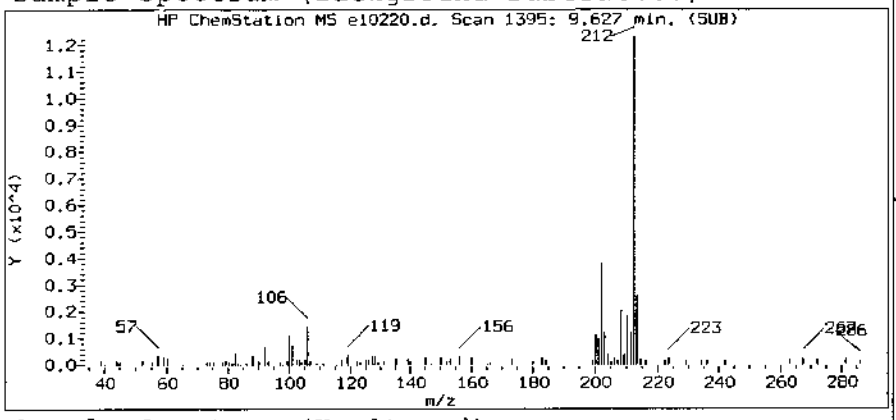
PCH09 9548

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

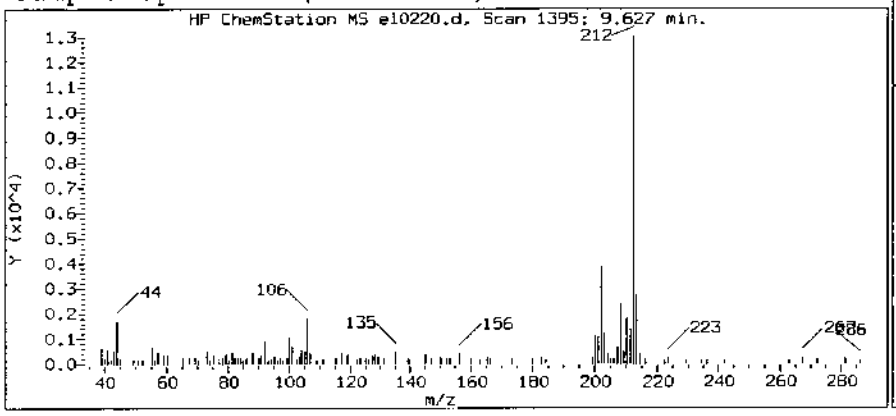
Reference Standard Spectrum for Pyrene

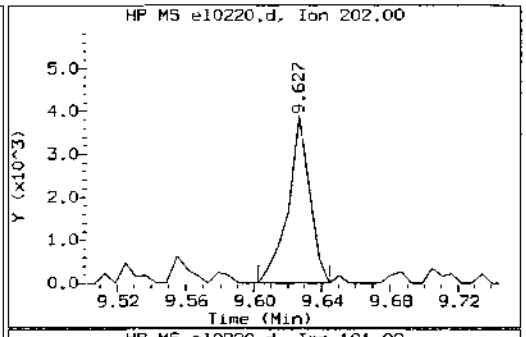


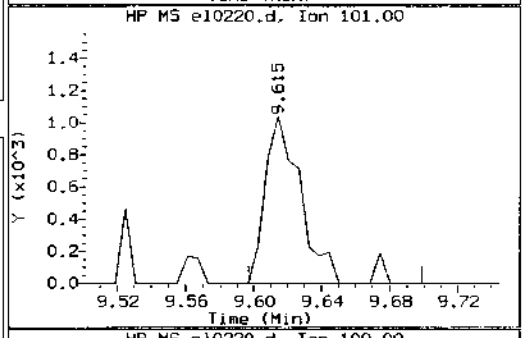
Sample Spectrum (Background Subtracted)

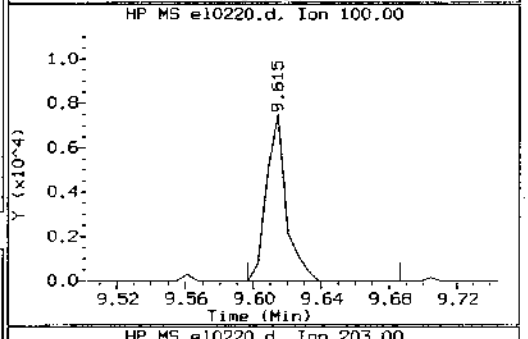


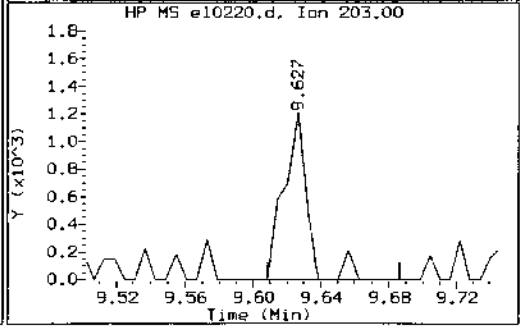
Sample Spectrum (Unaltered)











Data File: /chem/HP09572.i/11dec05.b/e10220.d
Injection date and time: 05-DEC-2011 16:29

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:40 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

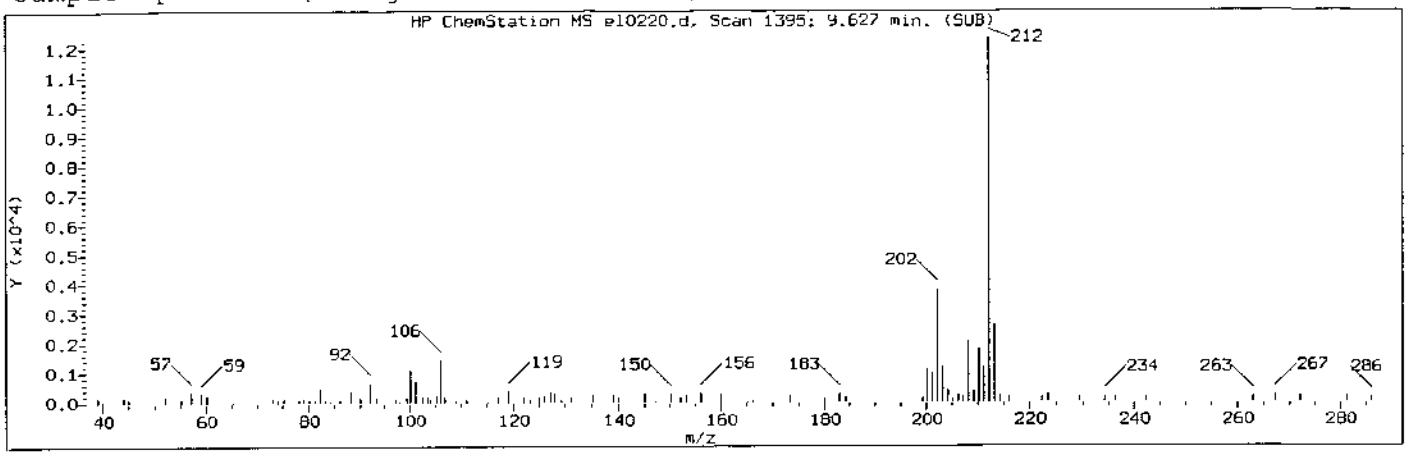
Lab Sample ID: 6477570

Compound Number	: 154
Compound Name	: Pyrene
Scan Number	: 1395
Retention Time (minutes)	: 9.627
Relative Retention Time	: 0.00062
Quant Ion	: 202.00
Area (flag)	: 3449M
On-column Amount (ng/ul)	: 0.1348

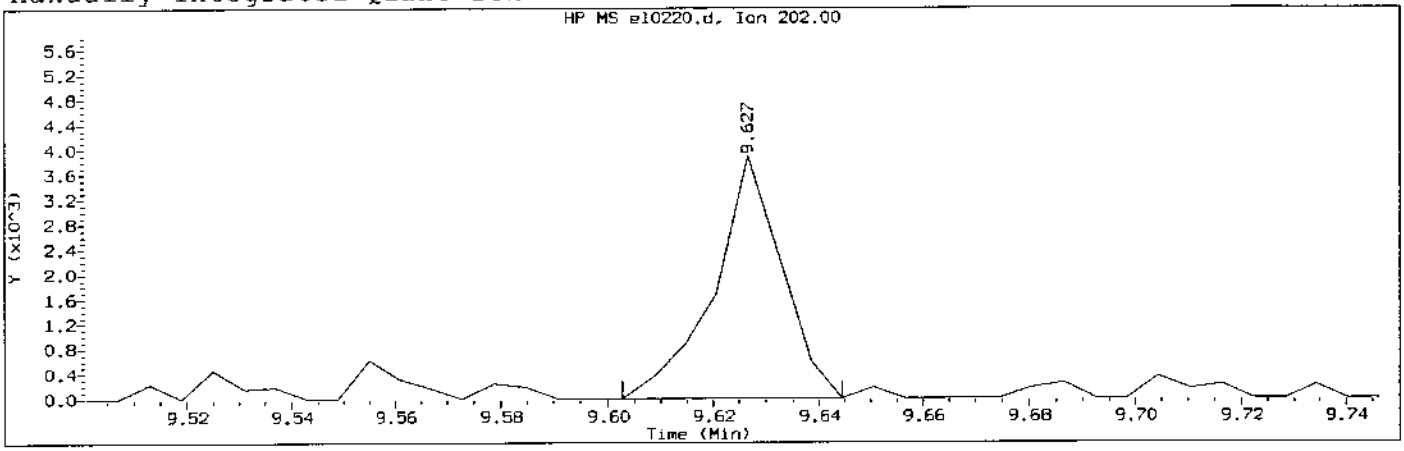
PCH09 8549

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10220.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:29 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:40 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477570

Compound Number	: 154		
Compound Name	: Pyrene		
Scan Number	: 1395		
Retention Time (minutes)	: 9.627		
Quant Ion	: 202.00		
Area (flag)	: 3449M		
On-column Amount (ng/ul)	: 0.1348		
Integration start scan	: 1390	Integration stop scan:	1397
Y at integration start	: 0	Y at integration end:	0

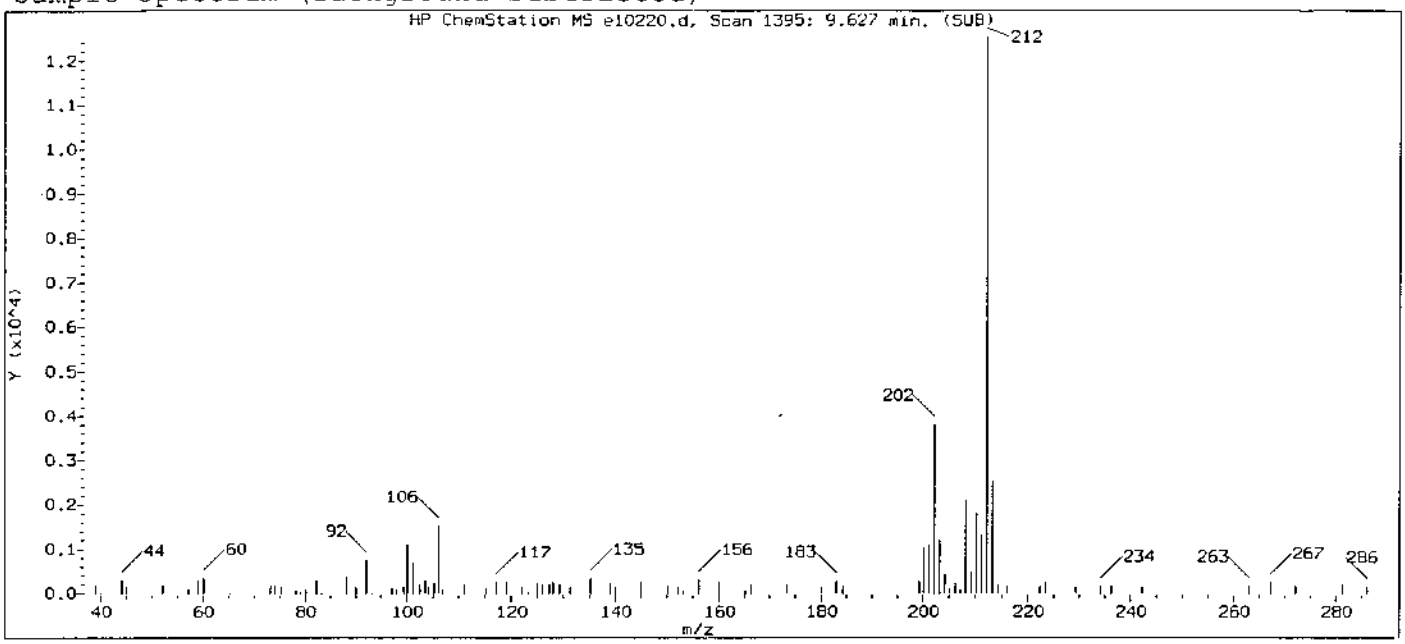
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58. Target 3.5 signature user ID: msw02109

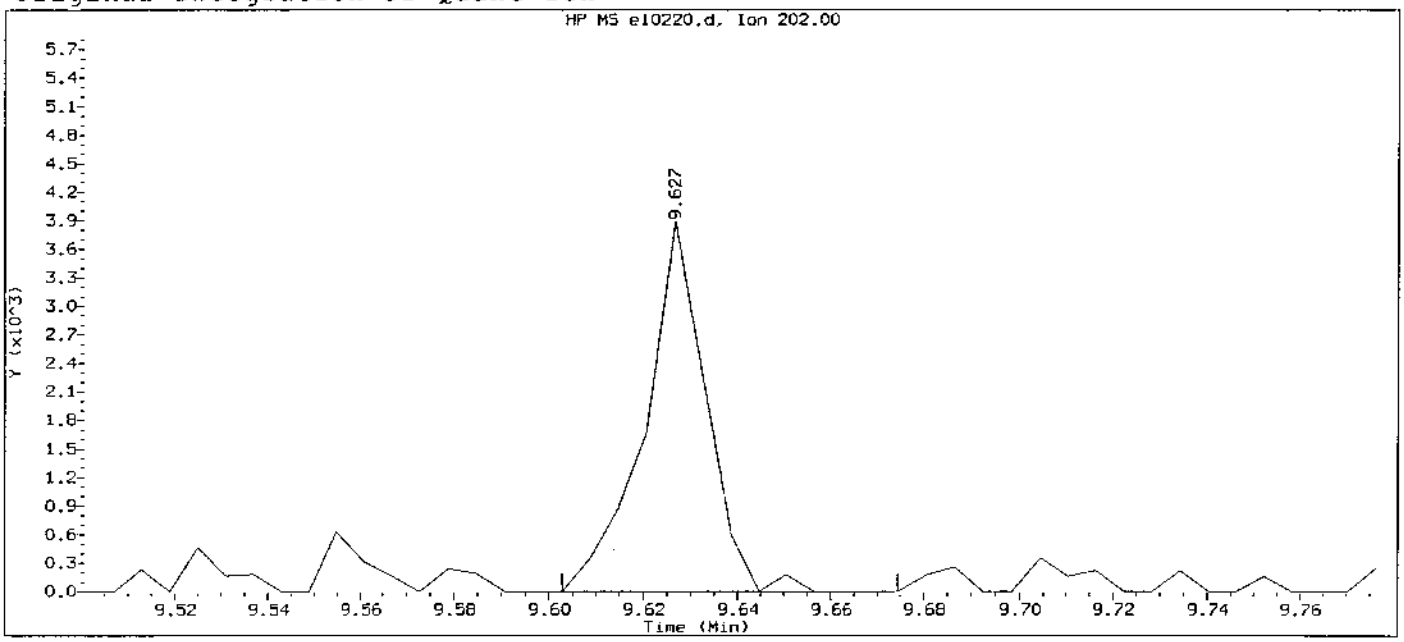
PCB89 8556

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59
Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10220.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:29 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 16:51 Automation

Sample Name: XXXXX Lab Sample ID: 6477570

Compound Number	: 154		
Compound Name	: Pyrene		
Scan Number	: 1395		
Retention Time (minutes)	: 9.627		
Quant Ion	: 202.00		
Area	: 3512		
On-column Amount (ng/ul)	: 0.1372		
Integration start scan	: 1390	Integration stop scan:	1402
Y at integration start	: 0	Y at integration end:	0

PCH09 8551

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT4D

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477571

Sample wt/vol: 1049 (g/mL)ML Lab File ID: el0221.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ UG/L	Q
91-20-3	Naphthalene		0.5	U
208-96-8	Acenaphthylene		0.5	U
83-32-9	Acenaphthene		0.5	U
86-73-7	Fluorene		0.5	U
85-01-8	Phenanthrene		0.5	U
120-12-7	Anthracene		0.5	U
206-44-0	Fluoranthene		0.5	U
129-00-0	Pyrene		0.5	U
56-55-3	Benzo(a)anthracene		0.5	U
218-01-9	Chrysene		0.5	U
205-99-2	Benzo(b)fluoranthene		0.5	U
207-08-9	Benzo(k)fluoranthene		0.5	U
50-32-8	Benzo(a)pyrene		0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.5	U
53-70-3	Dibenz(a,h)anthracene		0.5	U
191-24-2	Benzo(g,h,i)perylene		0.5	U

PCH89 8552

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477571

Data file: /chem/HP09572.i/11dec05.b/el0221.d
Data file Sample Info. Line: XXXXX;6477571;
Date, time and analyst ID of latest file update: 05-Dec-2011 20:41 jrr02820

Injection date and time: **05-DEC-2011 16:53**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1049 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	4.625	(-0.006)	559	152	83395	(-17)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	379968	(-20)	20.00	
98) Acenaphthene-d10	7.264	(0.000)	1000	164	238495	(-23)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	413432	(-22)	20.00	
167) Pyrene-d10	9.615	(0.000)	1393	212	472300	(-26)	20.00	
175) Perylene-d12	11.924	(0.000)	1779	264	310995	(-31)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	697264	84.526	85%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731	(0.000)	172	1376728	95.393	95%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1314699	92.280	92%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)				Not Detected					0.1
95) Acenaphthylene	(3)				Not Detected					0.1
99) Acenaphthene	(3)				Not Detected					0.1
111) Fluorene	(3)				Not Detected					0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)				Not Detected					0.1
147) Fluoranthene	(4)				Not Detected					0.1
154) Pyrene	(5)				Not Detected					0.1
166) Benzo(a)anthracene	(5)				Not Detected					0.1
168) Chrysene	(5)				Not Detected					0.1
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

PCH09 0553

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 20:55. Target 3.5 esignature user ID: jrr02820

XXXXX Lancaster Labs Analysis Summary for GC/MS Semivolatiles 6477571

Data file: /chem/HP09572.i/11dec05.b/el0221.d
Data file Sample Info. Line: XXXXX;6477571;
Injection date and time: **05-DEC-2011 16:53**
Instrument ID: **HP09572.i** Batch: **11325WAK**
Date, time and analyst ID of latest file update: 05-Dec-2011 20:41 jrr02820

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1049 ml Volume Injected (Vi): 1 ul

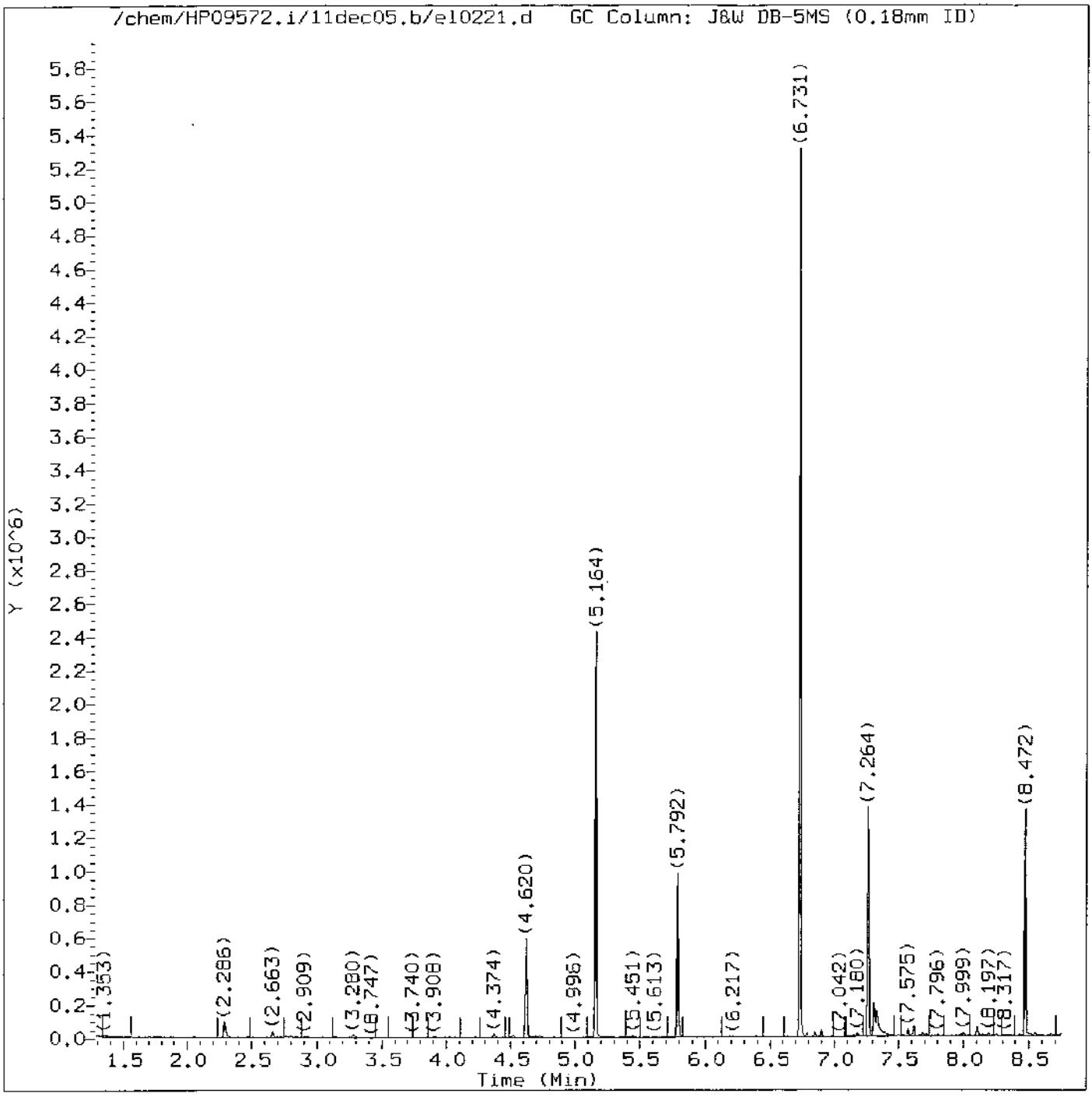
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Total number of targets = **16**

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 20:55. Target 3.5 esignature user ID: jrr02820

PCH09 8554

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

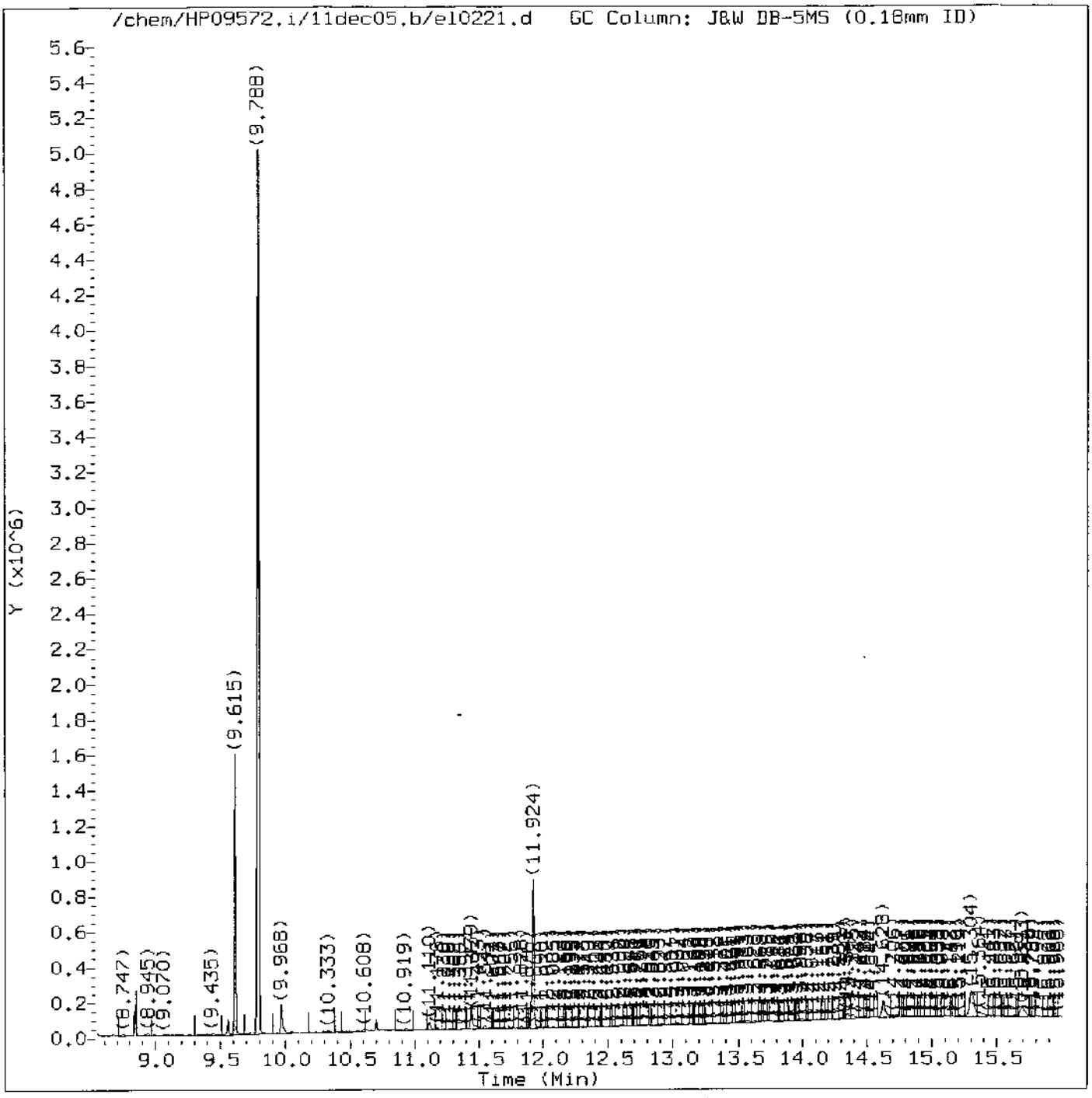
Data File: /chem/HP09572.i/11dec05.b/e10221.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:53 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:41 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477571

PCH09 8555

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:55.
Target 3.5 esignature user ID: jrr02820



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0221.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:53 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:41 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477571

PCH09 6556

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:55.
Target 3.5 esignature user ID: jrr02820

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10221.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 16:53 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:41 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477571

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	83395	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	697264	84.526
52)*Naphthalene-d8	(2)	5.792	136	379968	20.000
78)$2-Fluorobiphenyl	(3)	6.731	172	1376728	95.393
98)*Acenaphthene-d10	(3)	7.264	164	238495	20.000
135)*Phenanthrene-d10	(4)	8.472	188	413432	20.000
167)*Pyrene-d10	(5)	9.615	212	472300	20.000
156)$Terphenyl-d14	(5)	9.794	244	1314699	92.280
175)*Perylene-d12	(6)	11.924	264	310995	20.000

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

PCH09 8557

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:55.
Target 3.5 esignature user ID: jrr02820

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PATFB

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477572

Sample wt/vol: 1048 (g/mL)ML Lab File ID: el0222.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			0.5	U
208-96-8	Acenaphthylene			0.5	U
83-32-9	Acenaphthene			0.5	U
86-73-7	Fluorene			0.5	U
85-01-8	Phenanthrene			0.5	U
120-12-7	Anthracene			0.5	U
206-44-0	Fluoranthene			0.5	U
129-00-0	Pyrene			0.5	U
56-55-3	Benzo(a)anthracene			0.5	U
218-01-9	Chrysene			0.5	U
205-99-2	Benzo(b)fluoranthene			0.5	U
207-08-9	Benzo(k)fluoranthene			0.5	U
50-32-8	Benzo(a)pyrene			0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene			0.5	U
53-70-3	Dibenz(a,h)anthracene			0.5	U
191-24-2	Benzo(g,h,i)perylene			0.5	U

PCN69 6558

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477572

Data file: /chem/HP09572.i/11dec05.b/el0222.d
Data file Sample Info. Line: XXXXX;6477572;
Date, time and analyst ID of latest file update: 05-Dec-2011 20:42 jrr02820

Injection date and time: **05-DEC-2011 17:16**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1048 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	4.619	(0.000)	558	152	81529	(-19)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	371499	(-21)	20.00	
98) Acenaphthene-d10	7.263	(0.000)	1000	164	236052	(-23)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	414228	(-22)	20.00	
167) Pyrene-d10	9.614	(0.000)	1393	212	468900	(-27)	20.00	
175) Perylene-d12	11.918	(0.006)	1778	264	313063	(-30)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	695245	86.202	86%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731	(0.000)	172	1386774	97.083	97%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1358044	96.014	96%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)				Not Detected					0.1
95) Acenaphthylene	(3)				Not Detected					0.1
99) Acenaphthene	(3)				Not Detected					0.1
111) Fluorene	(3)				Not Detected					0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)				Not Detected					0.1
147) Fluoranthene	(4)				Not Detected					0.1
154) Pyrene	(5)				Not Detected					0.1
166) Benzo(a)anthracene	(5)				Not Detected					0.1
168) Chrysene	(5)				Not Detected					0.1
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

PCH69 8559

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 20:56. Target 3.5 esignature user ID: jrr02820

XXXXX Lancaster Labs
Analysis Summary for GC/MS Semivolatiles 6477572

Data file: /chem/HP09572.i/11dec05.b/el0222.d
Data file Sample Info. Line: XXXXX;6477572;
Date, time and analyst ID of latest file update: 05-Dec-2011 20:42 jrr02820

Injection date and time: **05-DEC-2011 17:16**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daiiy Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1048 ml Volume Injected (Vi): 1 ul

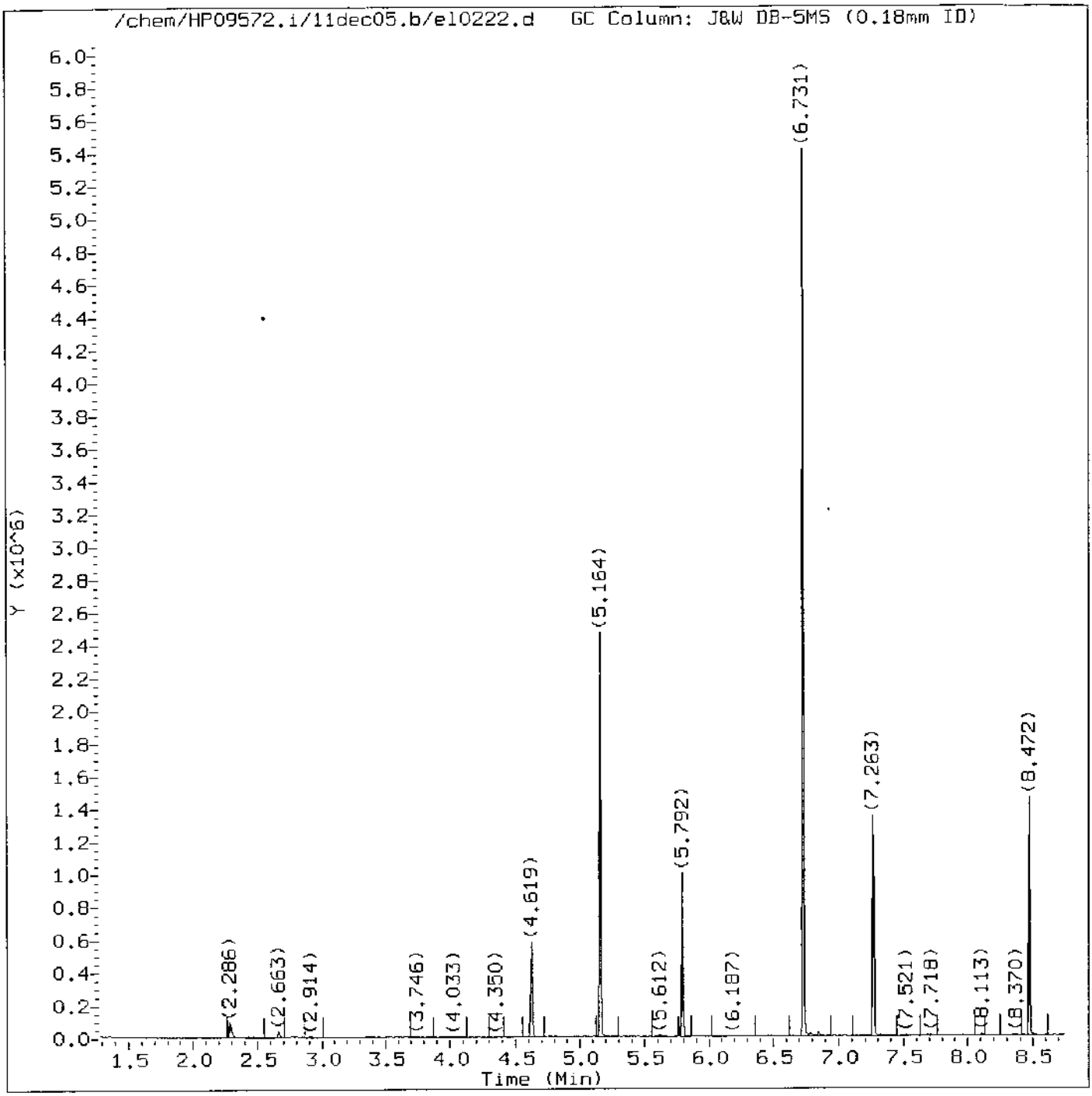
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Total number of targets = 16

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 20:56. Target 3.5 esignature user ID: jrr02820

PCH89 0560

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

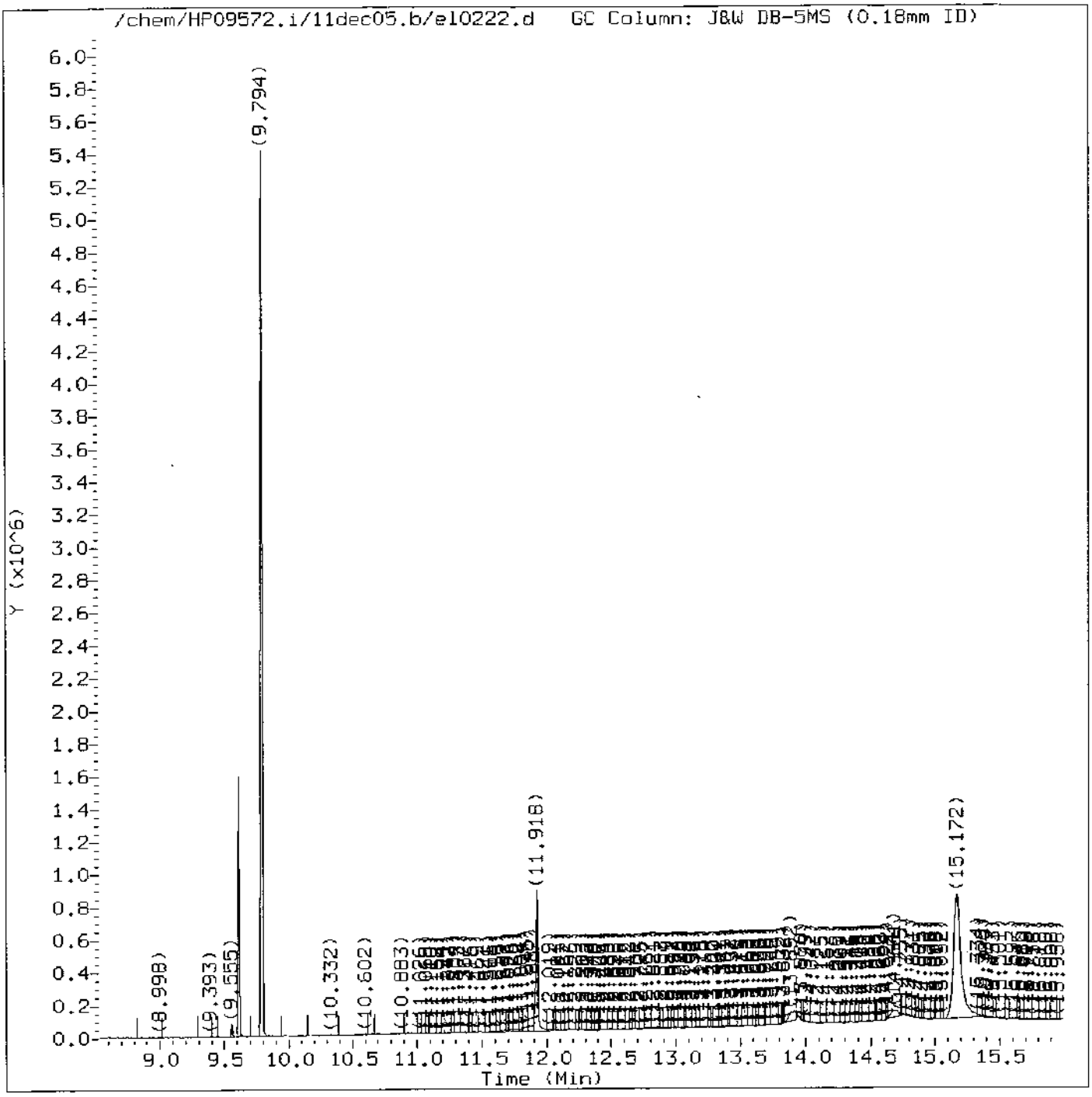
Data File: /chem/HP09572.i/11dec05.b/el0222.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 17:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:42 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477572

PCH89 6561

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:56.
Target 3.5 esignature user ID: jrr02820



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10222.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 17:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:42 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477572

PCH89 8562

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:56.
Target 3.5 esignature user ID: jrr02820

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10222.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 17:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:42 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477572

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.619	152	81529	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	695245	86.202
52)*Naphthalene-d8	(2)	5.792	136	371499	20.000
78)$2-Fluorobiphenyl	(3)	6.731	172	1386774	97.083
98)*Acenaphthene-d10	(3)	7.263	164	236052	20.000
135)*Phenanthrene-d10	(4)	8.472	188	414228	20.000
167)*Pyrene-d10	(5)	9.614	212	468900	20.000
156)$Terphenyl-d14	(5)	9.794	244	1358044	96.014
175)*Perylene-d12	(6)	11.918	264	313063	20.000

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

PCH09 0563

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:56.
Target 3.5 esignature user ID: jrr02820

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT7S

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477573

Sample wt/vol: 1003 (g/mL)ML Lab File ID: el0223.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ UG/L	Q
91-20-3	Naphthalene	0.5	U
208-96-8	Acenaphthylene	0.5	U
83-32-9	Acenaphthene	0.5	U
86-73-7	Fluorene	0.5	U
85-01-8	Phenanthrene	0.5	U
120-12-7	Anthracene	0.5	U
206-44-0	Fluoranthene	0.5	U
129-00-0	Pyrene	0.5	U
56-55-3	Benzo(a)anthracene	0.5	U
218-01-9	Chrysene	0.5	U
205-99-2	Benzo(b)fluoranthene	0.5	U
207-08-9	Benzo(k)fluoranthene	0.5	U
50-32-8	Benzo(a)pyrene	0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	U
53-70-3	Dibenz(a,h)anthracene	0.5	U
191-24-2	Benzo(g,h,i)perylene	0.5	U

PCH09 8564

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477573

Data file: /chem/HP09572.i/11dec05.b/el0223.d
Data file Sample Info. Line: XXXXX;6477573;
Date, time and analyst ID of latest file update: 05-Dec-2011 20:44 jrr02820

Injection date and time: **05-DEC-2011 17:41**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1003 ml Volume Injected (Vi): 1 ul

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
21) I,4-Dichlorobenzene-d4	4.619	(0.000)	558	152	87082	(-14)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	383032	(-19)	20.00	
98) Acenaphthene-d10	7.263	(0.000)	1000	164	249609	(-19)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	425776	(-20)	20.00	
167) Pyrene-d10	9.614	(0.000)	1393	212	478581	(-25)	20.00	
175) Perylene-d12	11.918	(0.006)	1778	264	314562	(-30)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	698016	83.940	84%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731	(0.000)	172	1382784	91.546	92%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1344506	93.134	93%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)				Not Detected					0.1
95) Acenaphthylene	(3)				Not Detected					0.1
99) Acenaphthene	(3)				Not Detected					0.1
111) Fluorene	(3)				Not Detected					0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)				Not Detected					0.1
147) Fluoranthene	(4)				Not Detected					0.1
154) Pyrene	(5)				Not Detected					0.1
166) Benzo(a)anthracene	(5)				Not Detected					0.1
168) Chrysene	(5)				Not Detected					0.1
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

PCH09 8565

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 20:56. Target 3.5 esignature user ID: jrr02820

XXXXX Lancaster Labs
Analysis Summary for GC/MS Semivolatiles 6477573

Data file: /chem/HP09572.i/11dec05.b/el0223.d
Data file Sample Info. Line: XXXXX;6477573;
Date, time and analyst ID of latest file update: 05-Dec-2011 20:44 jrr02820

Injection date and time: **05-DEC-2011 17:41**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1003 ml Volume Injected (Vi): 1 ul

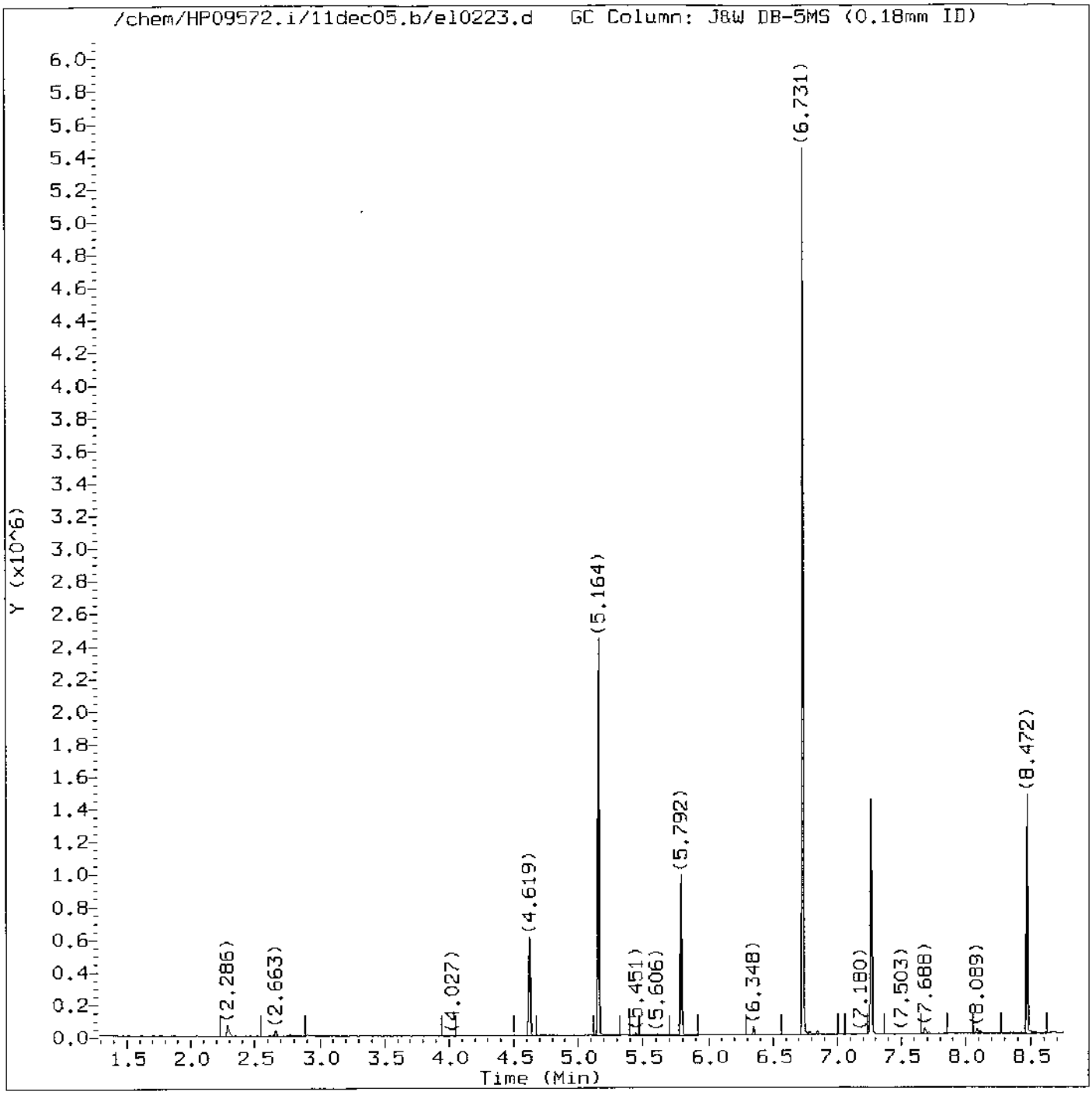
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Total number of targets = 16

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 20:56. Target 3.5 esignature user ID: jrr02820

PCH09 8566

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

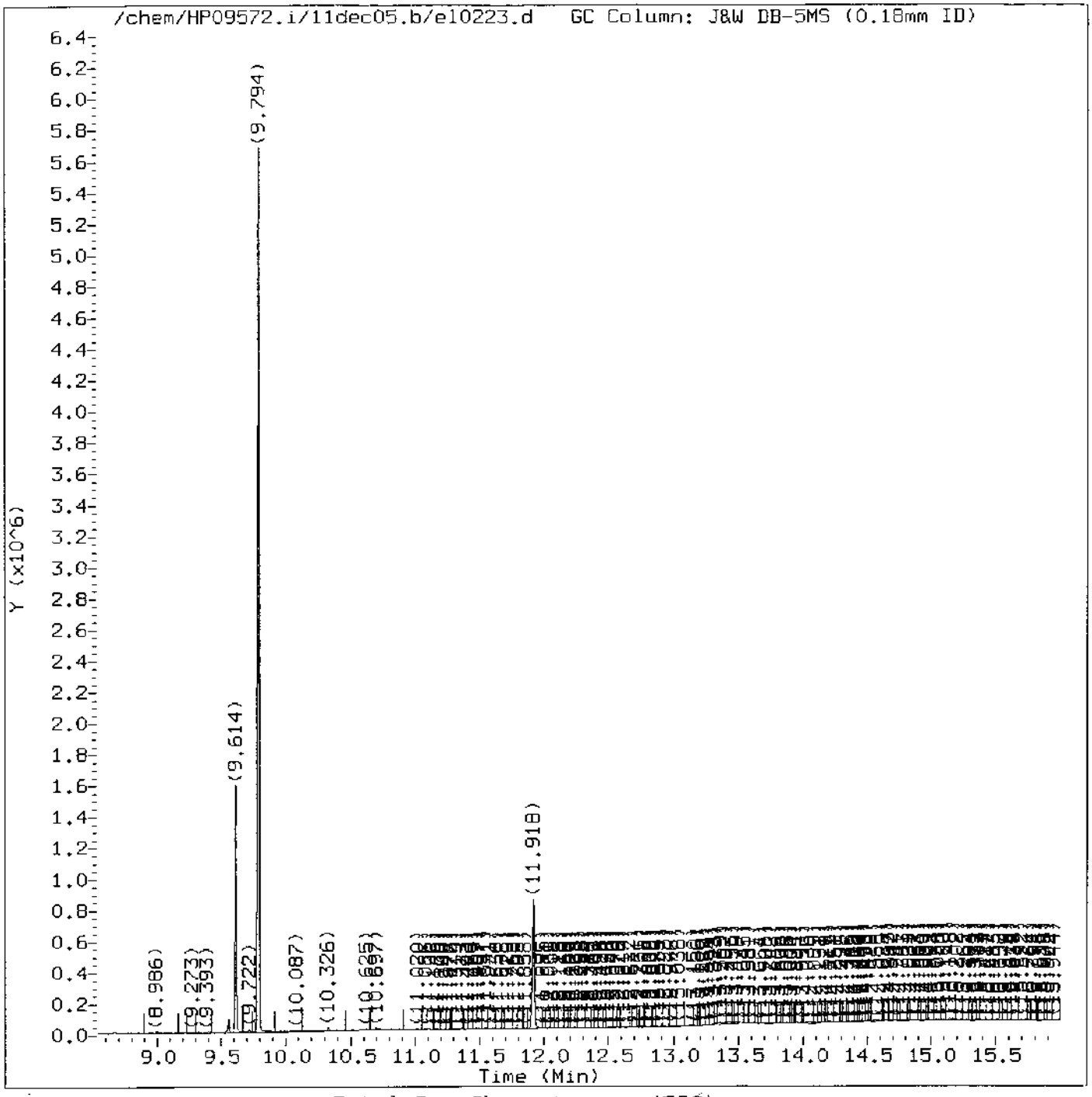
Data File: /chem/HP09572.i/11dec05.b/el0223.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 17:41 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:44 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477573

PCH89 6567

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:56.
Target 3.5 esignature user ID: jrr02820



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10223.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 17:41 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:44 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477573

PCH89 8568

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:56.
Target 3.5 esignature user ID: jrr02820

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0223.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 17:41 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:44 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477573

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.619	152	87082	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	698016	83.940
52)*Naphthalene-d8	(2)	5.792	136	383032	20.000
78)$2-Fluorobiphenyl	(3)	6.731	172	1382784	91.546
98)*Acenaphthene-d10	(3)	7.263	164	249609	20.000
135)*Phenanthrene-d10	(4)	8.472	188	425776	20.000
167)*Pyrene-d10	(5)	9.614	212	478581	20.000
156)$Terphenyl-d14	(5)	9.794	244	1344506	93.134
175)*Perylene-d12	(6)	11.918	264	314562	20.000

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

PCH09 8569

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:56.
Target 3.5 esignature user ID: jrr02820

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT7D

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477574

Sample wt/vol: 1048 (g/mL)ML Lab File ID: el0224.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			0.5	U
208-96-8	Acenaphthylene			0.5	U
83-32-9	Acenaphthene			0.5	U
86-73-7	Fluorene			0.5	U
85-01-8	Phenanthrene			0.5	U
120-12-7	Anthracene			0.5	U
206-44-0	Fluoranthene			0.5	U
129-00-0	Pyrene			0.5	U
56-55-3	Benzo(a)anthracene			0.5	U
218-01-9	Chrysene			0.5	U
205-99-2	Benzo(b)fluoranthene			0.5	U
207-08-9	Benzo(k)fluoranthene			0.5	U
50-32-8	Benzo(a)pyrene			0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene			0.5	U
53-70-3	Dibenz(a,h)anthracene			0.5	U
191-24-2	Benzo(g,h,i)perylene			0.5	U

PCH09 8578

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles 6477574

Data file: /chem/HP09572.i/11dec05.b/el0224.d
Data file Sample Info. Line: XXXXX;6477574;
Date, time and analyst ID of latest file update: 05-Dec-2011 20:46 jrr02820

Injection date and time: **05-DEC-2011 18:04**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1048 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	4.619	(0.000)	558	152	86394	(-14)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	383423	(-19)	20.00	
98) Acenaphthene-d10	7.264	(0.000)	1000	164	244535	(-21)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	423781	(-20)	20.00	
167) Pyrene-d10	9.615	(0.000)	1393	212	472896	(-26)	20.00	
175) Perylene-d12	11.918	(0.006)	1778	264	320314	(-28)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	725889	87.203	87%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731	(0.000)	172	1422787	96.149	96%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1389280	97.392	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)
53) Naphthalene	(2)				Not Detected					0.1
95) Acenaphthylene	(3)				Not Detected					0.1
99) Acenaphthene	(3)				Not Detected					0.1
111) Fluorene	(3)				Not Detected					0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)				Not Detected					0.1
147) Fluoranthene	(4)				Not Detected					0.1
154) Pyrene	(5)				Not Detected					0.1
166) Benzo(a)anthracene	(5)				Not Detected					0.1
168) Chrysene	(5)				Not Detected					0.1
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

PCH09 8571

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 20:56. Target 3.5 esignature user ID: jrr02820

XXXXX Lancaster Labs Analysis Summary for GC/MS Semivolatiles 6477574

Data file: /chem/HP09572.i/11dec05.b/el0224.d
Data file Sample Info. Line: XXXXX;6477574;
Date, time and analyst ID of latest file update: 05-Dec-2011 20:46 jrr02820

Injection date and time: **05-DEC-2011 18:04**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1048 ml Volume Injected (Vi): 1 ul

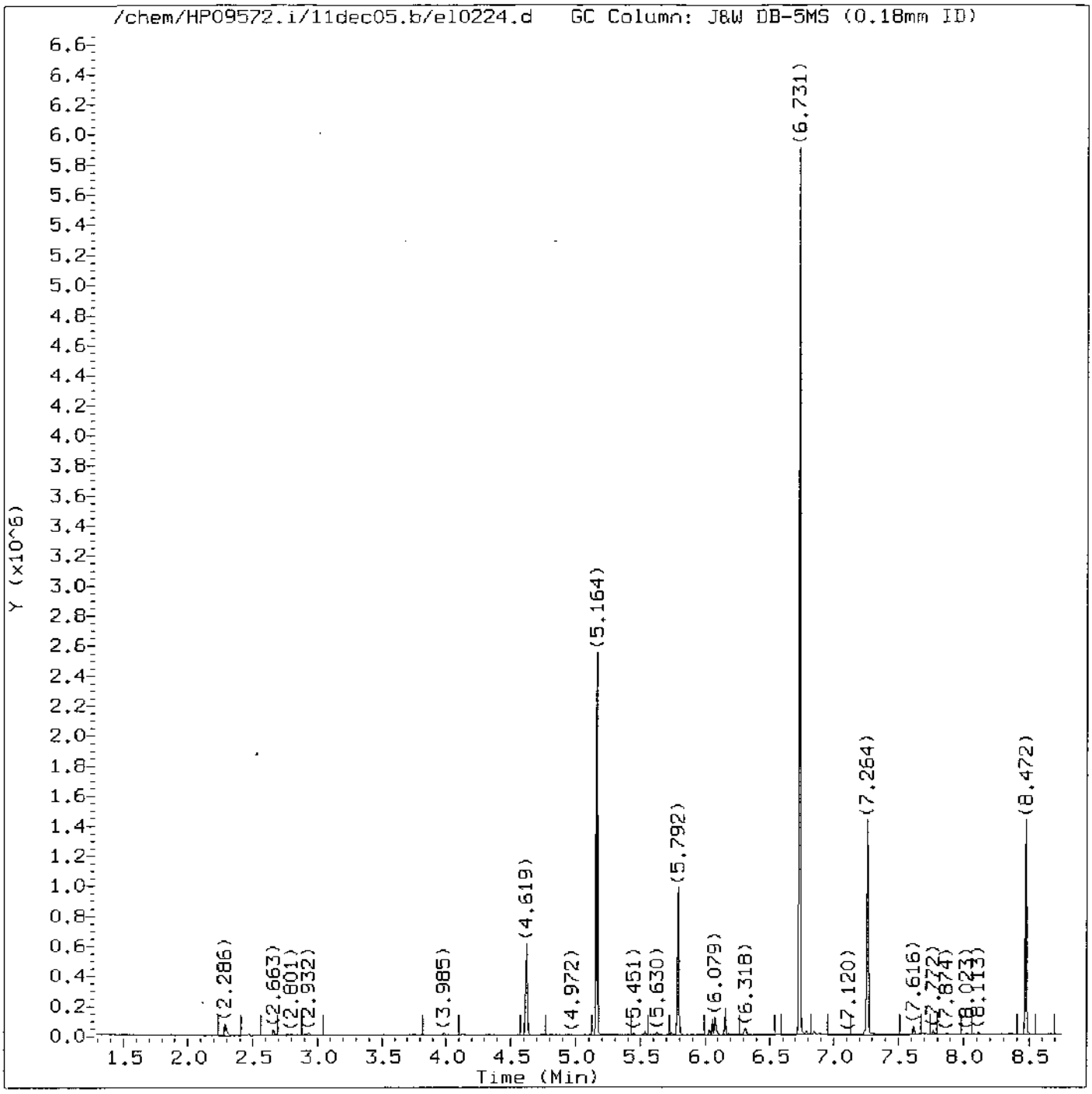
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Total number of targets = 16

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 20:56. Target 3.5 esignature user ID: jrr02820

PCH09 0572

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

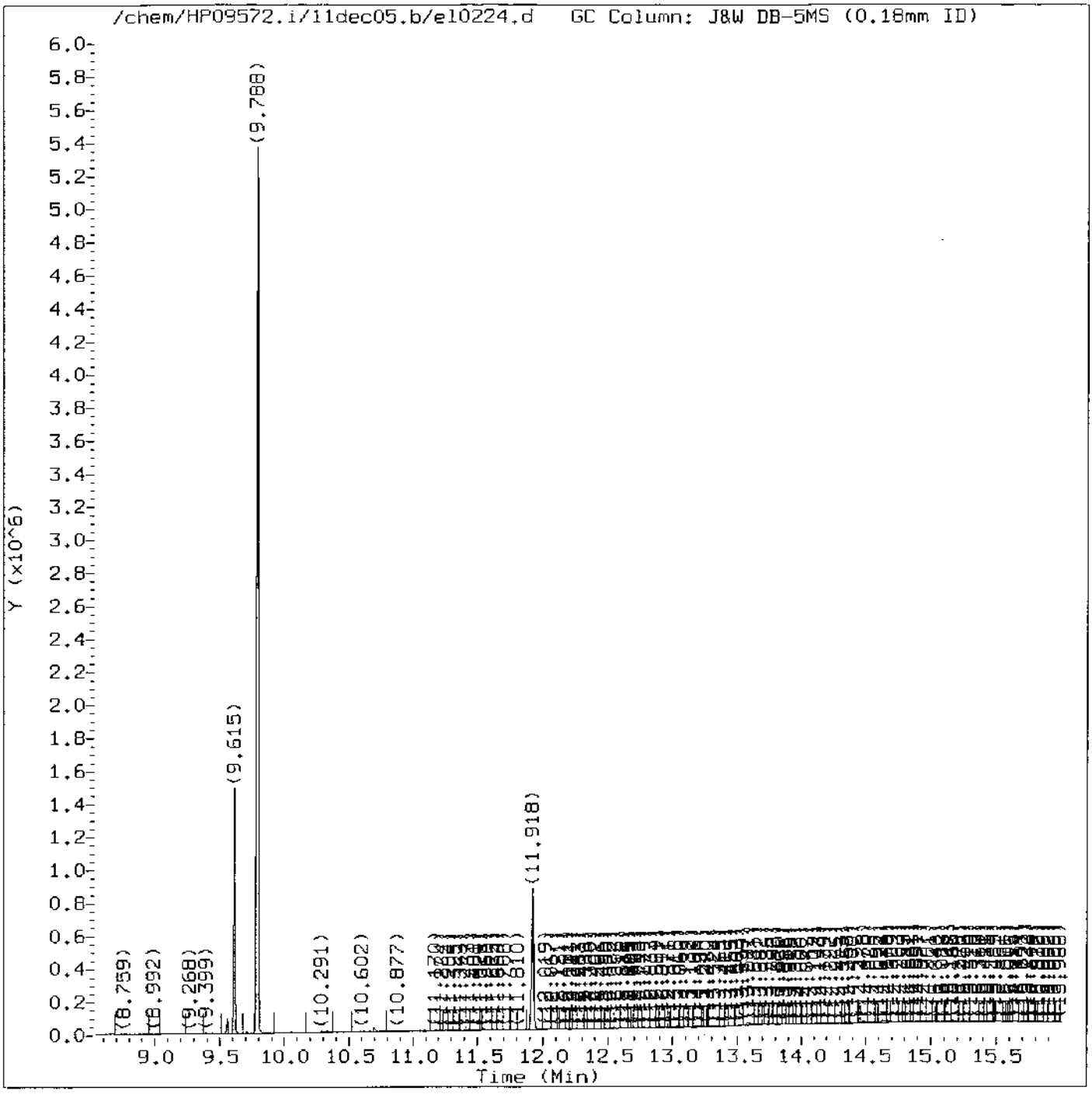
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Injection date and time: 05-DEC-2011 18:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:46 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477574

PCH09 6573

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:56.
Target 3.5 esignature user ID: jrr02820



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0224.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 18:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:46 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477574

PCH09 0574

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:56.
Target 3.5 esignature user ID: jrr02820

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0224.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 18:04 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:46 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477574

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.619	152	86394	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	725889	87.203
52)*Naphthalene-d8	(2)	5.792	136	383423	20.000
78)$2-Fluorobiphenyl	(3)	6.731	172	1422787	96.149
98)*Acenaphthene-d10	(3)	7.264	164	244535	20.000
135)*Phenanthrene-d10	(4)	8.472	188	423781	20.000
167)*Pyrene-d10	(5)	9.615	212	472896	20.000
156)$Terphenyl-d14	(5)	9.794	244	1389280	97.392
175)*Perylene-d12	(6)	11.918	264	320314	20.000

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

PCH09 8575

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:56.
Target 3.5 esignature user ID: jrr02820

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT2D

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477575

Sample wt/vol: 999 (g/mL)ML Lab File ID: el0225.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ	UG/L	Q
91-20-3	Naphthalene		0.1	J
208-96-8	Acenaphthylene		0.5	U
83-32-9	Acenaphthene		0.5	U
86-73-7	Fluorene		0.5	U
85-01-8	Phenanthrene		0.5	U
120-12-7	Anthracene		0.5	U
206-44-0	Fluoranthene		0.5	U
129-00-0	Pyrene		0.5	U
56-55-3	Benzo(a)anthracene		0.5	U
218-01-9	Chrysene		0.5	U
205-99-2	Benzo(b)fluoranthene		0.1	J
207-08-9	Benzo(k)fluoranthene		0.5	U
50-32-8	Benzo(a)pyrene		0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.5	U
53-70-3	Dibenz(a,h)anthracene		0.5	U
191-24-2	Benzo(g,h,i)perylene		0.5	U

PCH89 0576

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477575

Data file: /chem/HP09572.i/11dec05.b/el0225.d
Data file Sample Info. Line: XXXXX;6477575;
Date, time and analyst ID of latest file update: 05-Dec-2011 20:48 jrr02820

Injection date and time: **05-DEC-2011 18:28**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 999 ml Volume Injected (Vi): 1 ul

Analysis Comments:112

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Change)	Conc. (on-column)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.619(0.000)	558	152	92153 (-19)	20.00	
52) Naphthalene-d8	5.792(0.000)	754	136	367011 (-22)	20.00	
98) Acenaphthene-d10	7.263(0.000)	1000	164	235165 (-24)	20.00	
135) Phenanthrene-d10	8.472(0.000)	1202	188	408603 (-23)	20.00	
167) Pyrene-d10	9.614(0.000)	1393	212	471893 (-26)	20.00	
175) Perylene-d12	11.918(0.006)	1778	264	309962 (-31)	20.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164(-0.001)	82	696810	87.453	87%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731(0.000)	172	1377338	96.787	97%		63 - 114
156) Terphenyl-d14	(5)	9.788(0.000)	244	1341497	94.243	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)
53) Naphthalene	(2)	5.810(-0.000)	128	2364	0.117	0.12			0.1
95) Acenaphthylene	(3)			Not Detected					0.1
99) Acenaphthene	(3)			Not Detected					0.1
111) Fluorene	(3)			Not Detected					0.1
137) Phenanthrene	(4)			Not Detected					0.1
138) Anthracene	(4)			Not Detected					0.1
147) Fluoranthene	(4)			Not Detected					0.1
154) Pyrene	(5)			Not Detected					0.1
166) Benzo(a)anthracene	(5)			Not Detected					0.1
168) Chrysene	(5)			Not Detected					0.1
172) Benzo(b)fluoranthene	(6)	11.547(0.000)	252	1979M	0.107	0.11			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

M = Compound was manually integrated.

PCH09 0577

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58. Target 3.5 esignature user ID: msw02109

XXXXX Lancaster Labs Analysis Summary for GC/MS Semivolatiles 6477575

Data file: /chem/HP09572.i/11dec05.b/el0225.d
Data file Sample Info. Line: XXXXX;6477575;
Injection date and time: **05-DEC-2011 18:28**
Instrument ID: **HP09572.i** Batch: **11325WAK**
Date, time and analyst ID of latest file update: 05-Dec-2011 20:48 jrr02820

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 999 ml Volume Injected (Vi): 1 ul

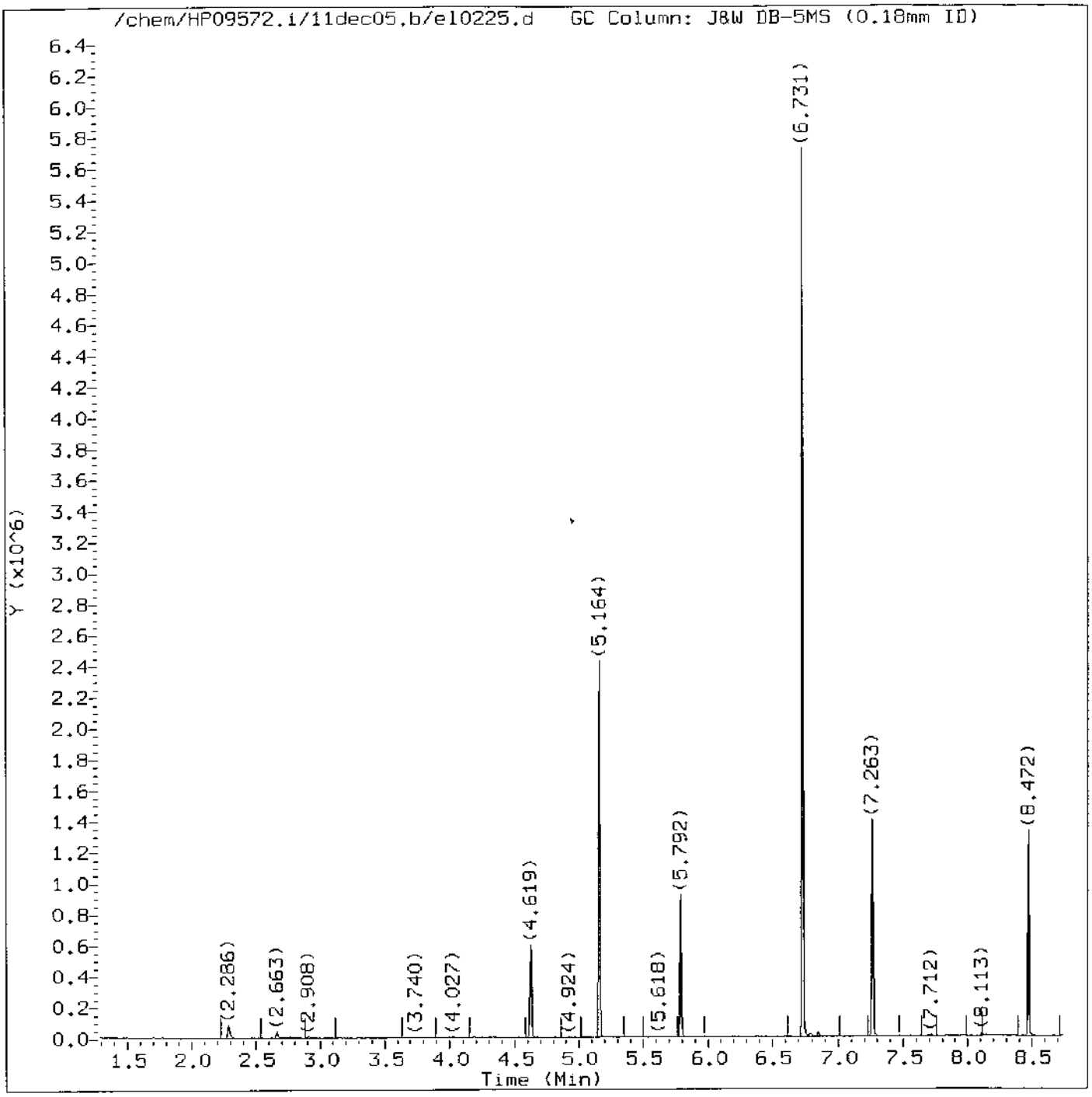
THIS SPACE
WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 16

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58. Target 3.5 esignature user ID: msw02109

PCH09 8578

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59. Parallax ID: rrc00863



Total Ion Chromatogram (TIC)

Target Revision 3.5

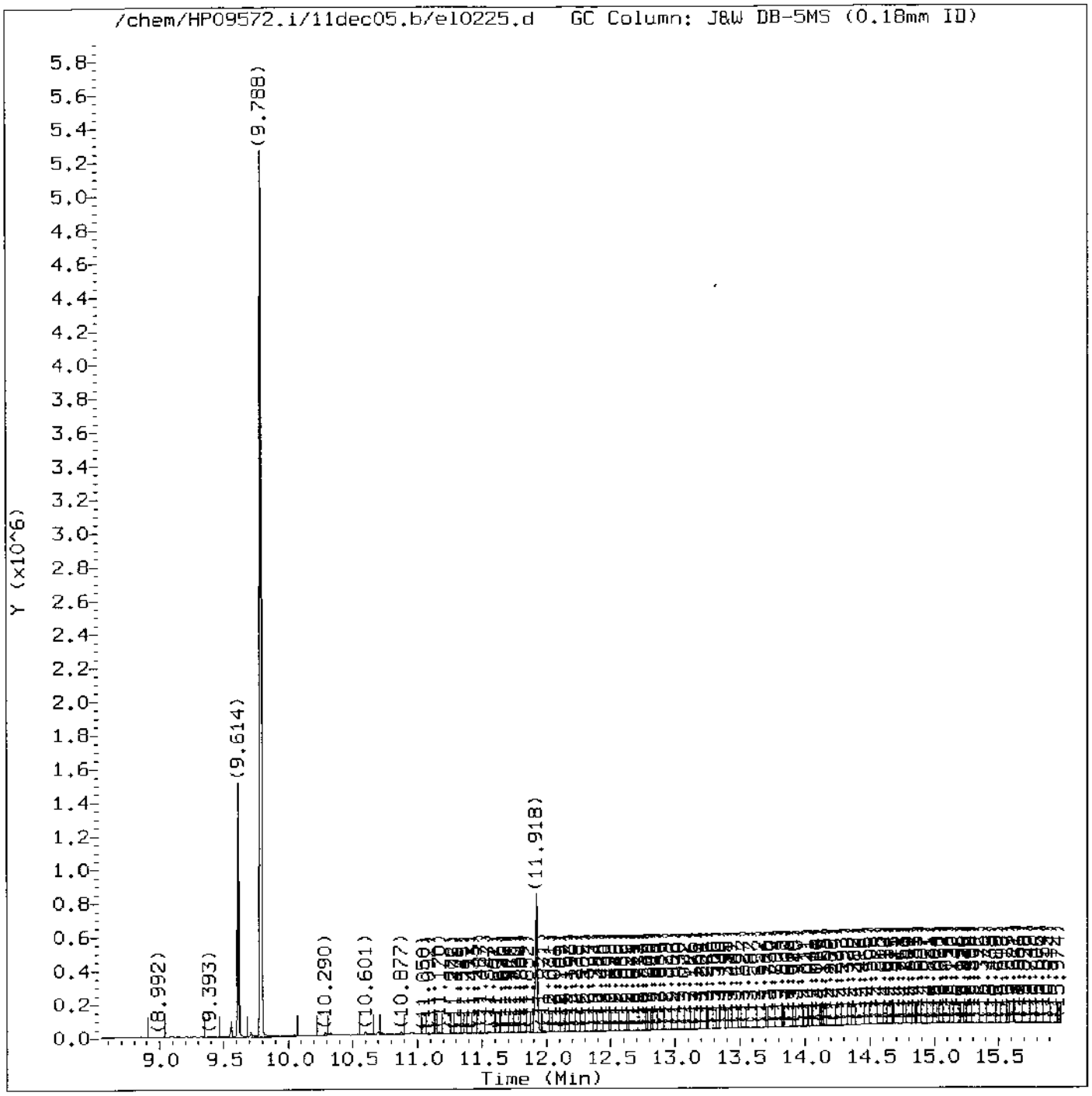
Data File: /chem/HP09572.i/11dec05.b/el0225.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 18:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:48 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477575

PCH09 0579

Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0225.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 18:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:48 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477575

PCH69 8588

Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0225.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 18:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:48 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477575

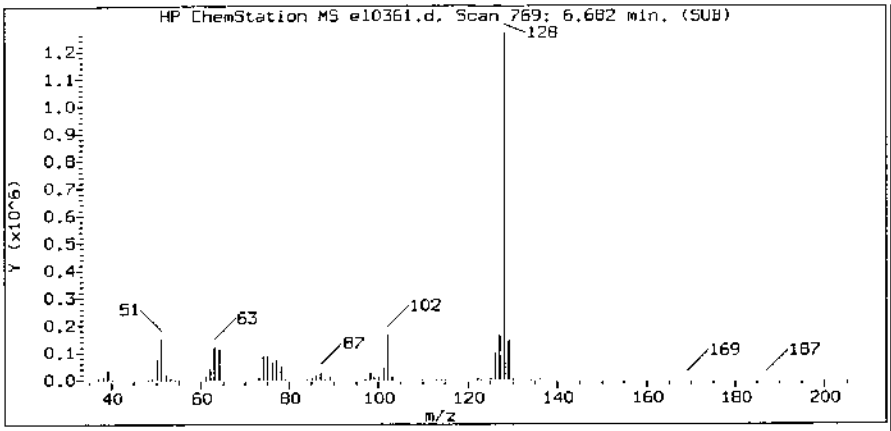
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.619	152	82153	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	696810	87.453
52)*Naphthalene-d8	(2)	5.792	136	367011	20.000
53) Naphthalene	(2)	5.810	128	2364	0.117
78)$2-Fluorobiphenyl	(3)	6.731	172	1377338	96.787
98)*Acenaphthene-d10	(3)	7.263	164	235165	20.000
135)*Phenanthrene-d10	(4)	8.472	188	408603	20.000
167)*Pyrene-d10	(5)	9.614	212	471893	20.000
156)$Terphenyl-d14	(5)	9.788	244	1341497	94.243
172) Benzo(b)fluoranthene	(6)	11.547	252	1979M	0.107
175)*Perylene-d12	(6)	11.918	264	309962	20.000

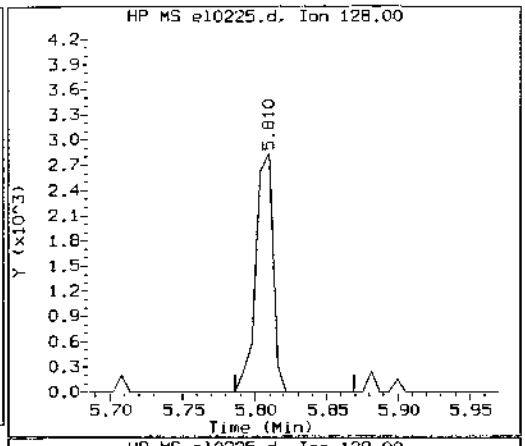
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PCH09 0581

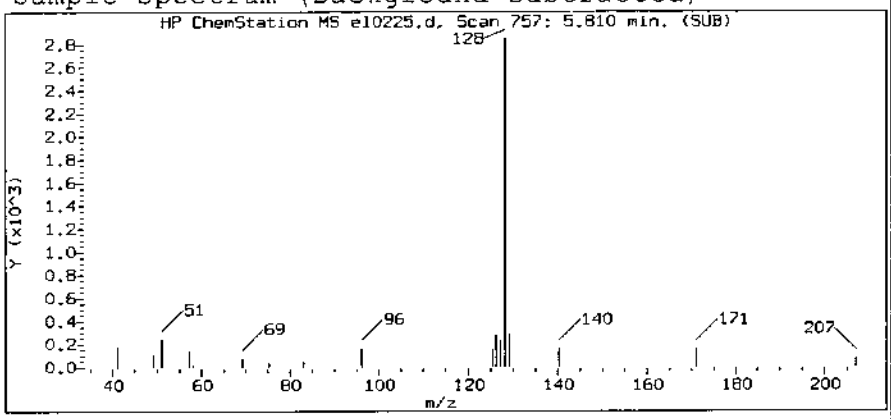
Digitally signed by Matthew S. Woods
on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

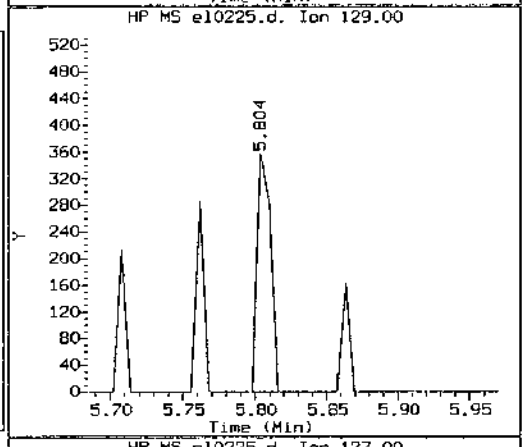
Reference Standard Spectrum for Naphthalene



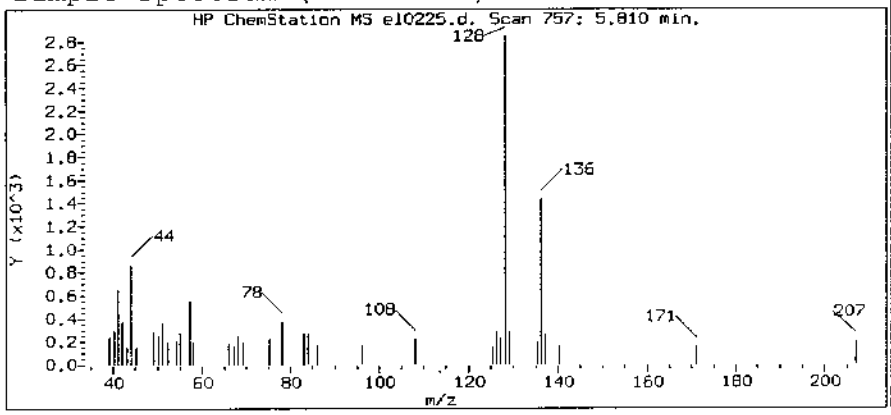


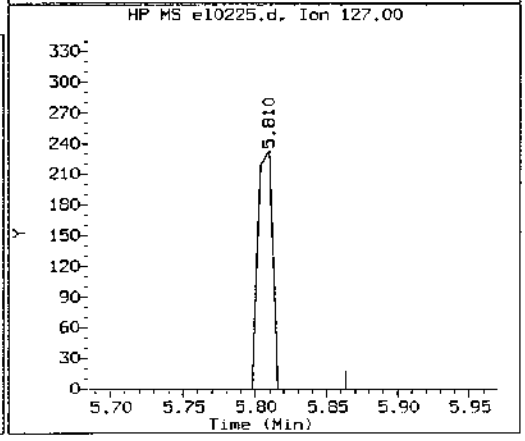
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10225.d
Injection date and time: 05-DEC-2011 18:28

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:48 jrr02820

Sublist used: WPAH0826

Sample Name: XXXXX

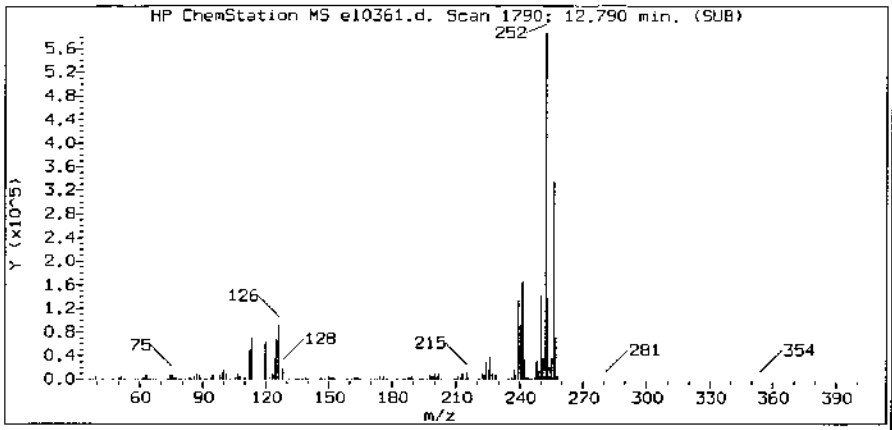
Lab Sample ID: 6477575

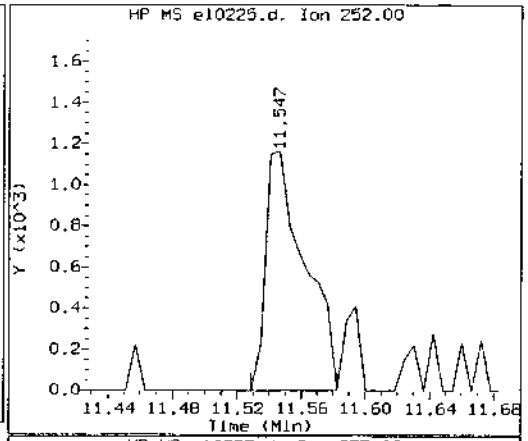
Compound Number : 53
Compound Name : Naphthalene
Scan Number : 757
Retention Time (minutes) : 5.810
Relative Retention Time :-0.00000
Quant Ion : 128.00
Area (flag) : 2364
On-column Amount (ng/ul) : 0.1173

PCH89 8682

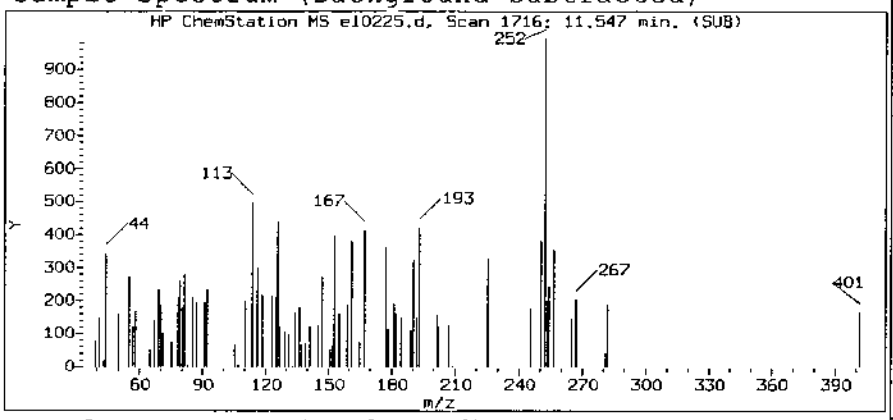
Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

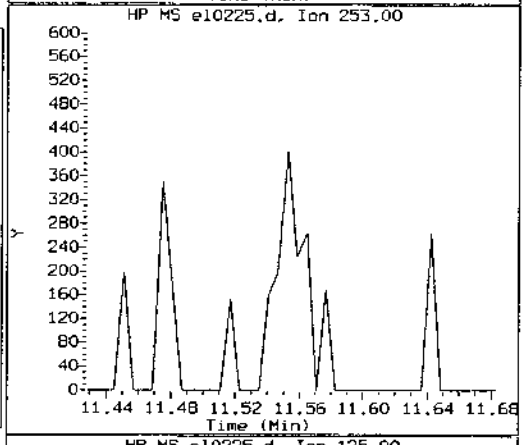
Reference Standard Spectrum for Benzo(b)fluoranthene



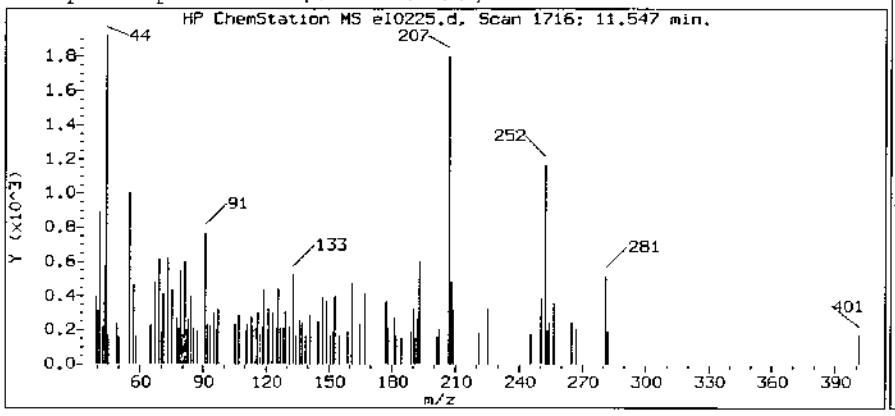


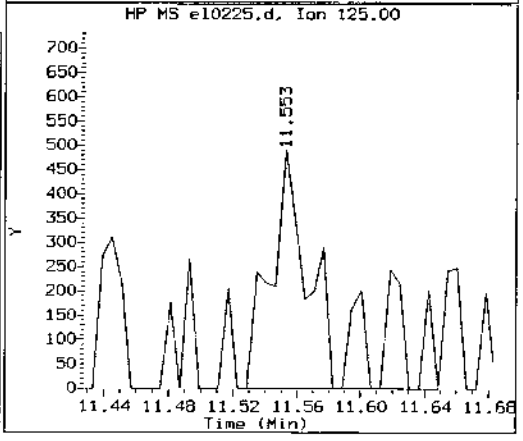
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09572.i/11dec05.b/e10225.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 18:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:48 jrr02820

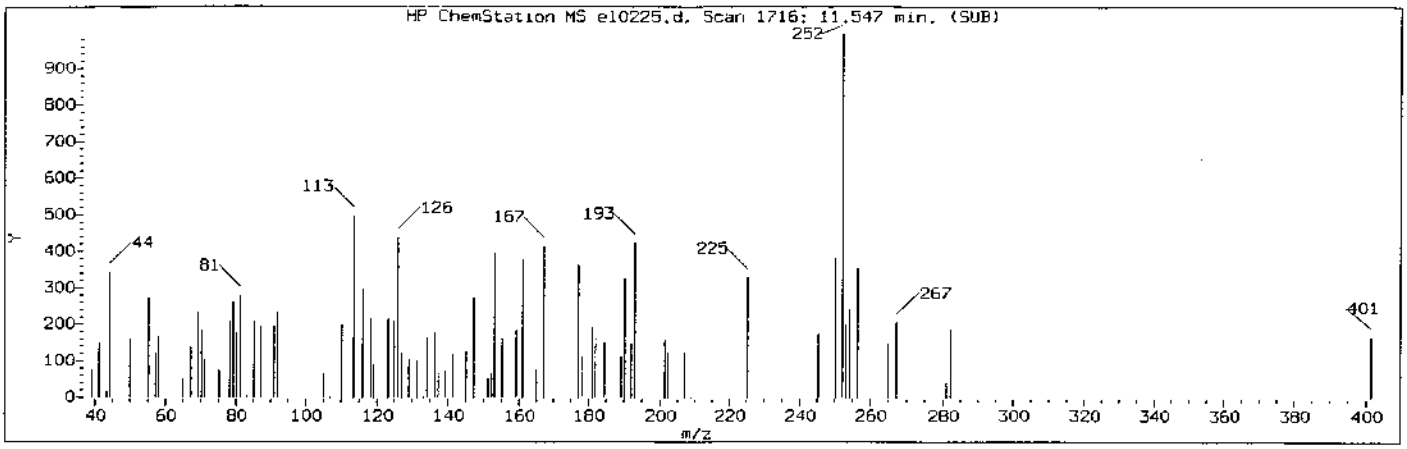
Sample Name: XXXXX Lab Sample ID: 6477575

Compound Number	: 172
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1716
Retention Time (minutes)	: 11.547
Relative Retention Time	: 0.00052
Quant Ion	: 252.00
Area (flag)	: 1979M
On-column Amount (ng/ul)	: 0.1075

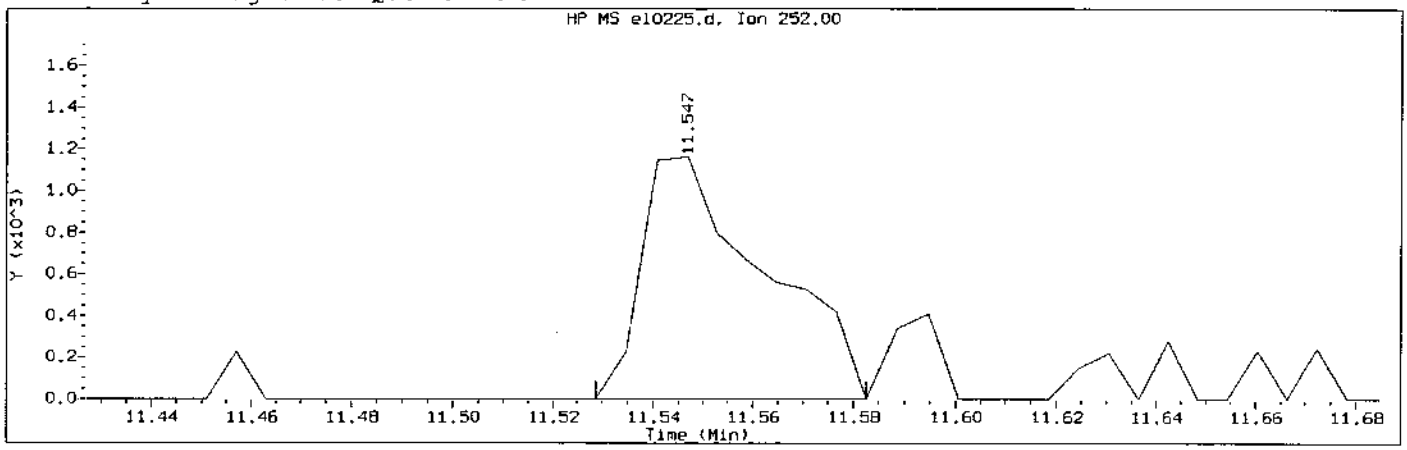
PCH09 8583

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10225.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 18:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:48 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477575

Compound Number	: 172		
Compound Name	: Benzo(b)fluoranthene		
Scan Number	: 1716		
Retention Time (minutes)	: 11.547		
Quant Ion	: 252.00		
Area (flag)	: 1979M		
On-column Amount (ng/ul)	: 0.1075		
Integration start scan	: 1712	Integration stop scan:	1721
Y at integration start	: 0	Y at integration end:	0

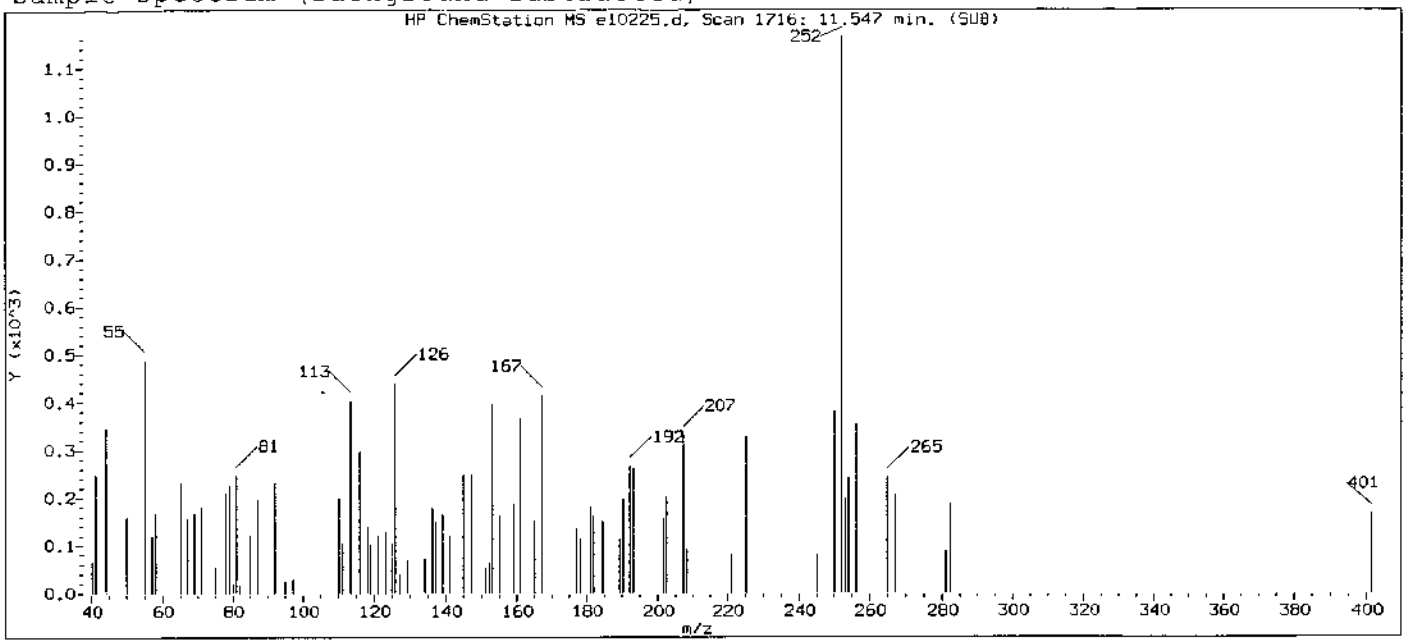
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58. Target 3.5 esignature user ID: msw02109

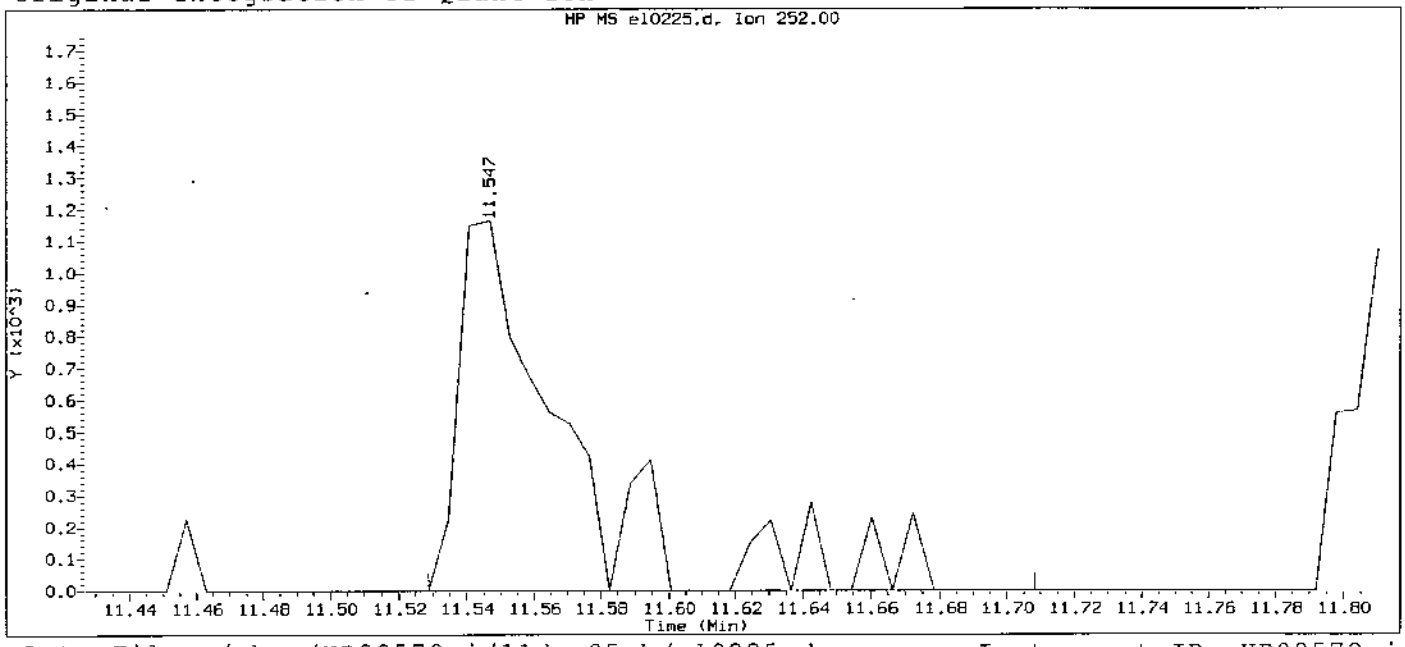
PCH69 8584

Secondary review performed and digitally signed by Rachel R. Cochis on 12/08/2011 at 09:59. Parallax ID: rrc00863

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10225.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 18:28 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 18:51 Automation

Sample Name: XXXXX Lab Sample ID: 6477575

Compound Number	: 172		
Compound Name	: Benzo(b)fluoranthene		
Scan Number	: 1716		
Retention Time (minutes)	: 11.547		
Quant Ion	: 252.00		
Area	: 2651		
On-column Amount (ng/ul)	: 0.1440		
Integration start scan	: 1712	Integration stop scan:	1742
Y at integration start	: 0	Y at integration end:	0

PCH69 8585

Digitally signed by Matthew S. Woods on 12/08/2011 at 09:58.
Target 3.5 esignature user ID: msw02109

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT2S

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477576

Sample wt/vol: 1048 (g/mL)ML Lab File ID: el0226.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ UG/L	Q
91-20-3	Naphthalene		0.5	U
208-96-8	Acenaphthylene		0.5	U
83-32-9	Acenaphthene		0.5	U
86-73-7	Fluorene		0.5	U
85-01-8	Phenanthrene		0.5	U
120-12-7	Anthracene		0.5	U
206-44-0	Fluoranthene		0.5	U
129-00-0	Pyrene		0.5	U
56-55-3	Benzo(a)anthracene		0.5	U
218-01-9	Chrysene		0.5	U
205-99-2	Benzo(b)fluoranthene		0.5	U
207-08-9	Benzo(k)fluoranthene		0.5	U
50-32-8	Benzo(a)pyrene		0.5	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.5	U
53-70-3	Dibenz(a,h)anthracene		0.5	U
191-24-2	Benzo(g,h,i)perylene		0.5	U

PCH09 8506

XXXXX

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477576

Data file: /chem/HP09572.i/11dec05.b/el0226.d
Data file Sample Info. Line: XXXXX;6477576;
Injection date and time: **05-DEC-2011 18:52**
Instrument ID: **HP09572.i** Batch: **11325WAK**
Date, time and analyst ID of latest file update: 05-Dec-2011 20:50 jrr02820

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1048 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	4.619	(0.000)	558	152	89708	(-11)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	395080	(-16)	20.00	
98) Acenaphthene-d10	7.264	(0.000)	1000	164	249994	(-19)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	428774	(-20)	20.00	
167) Pyrene-d10	9.615	(0.000)	1393	212	476105	(-26)	20.00	
175) Perylene-d12	11.918	(0.006)	1778	264	327422	(-27)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	755313	88.061	88%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731	(0.000)	172	1491966	98.623	99%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1413038	98.390	98%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)				Not Detected					0.1
95) Acenaphthylene	(3)				Not Detected					0.1
99) Acenaphthene	(3)				Not Detected					0.1
111) Fluorene	(3)				Not Detected					0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)				Not Detected					0.1
147) Fluoranthene	(4)				Not Detected					0.1
154) Pyrene	(5)				Not Detected					0.1
166) Benzo(a)anthracene	(5)				Not Detected					0.1
168) Chrysene	(5)				Not Detected					0.1
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

PCH89 8587

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 20:57. Target 3.5 esignature user ID: jrr02820

XXXXX Lancaster Labs
Analysis Summary for GC/MS Semivolatiles 6477576

Data file: /chem/HP09572.i/11dec05.b/el0226.d Injection date and time: **05-DEC-2011 18:52**
Data file Sample Info. Line: XXXXX;6477576; Instrument ID: **HP09572.i** Batch: **11325WAK**
Date, time and analyst ID of latest file update: 05-Dec-2011 20:50 jrr02820

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH0826**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1048 ml Volume Injected (Vi): 1 ul

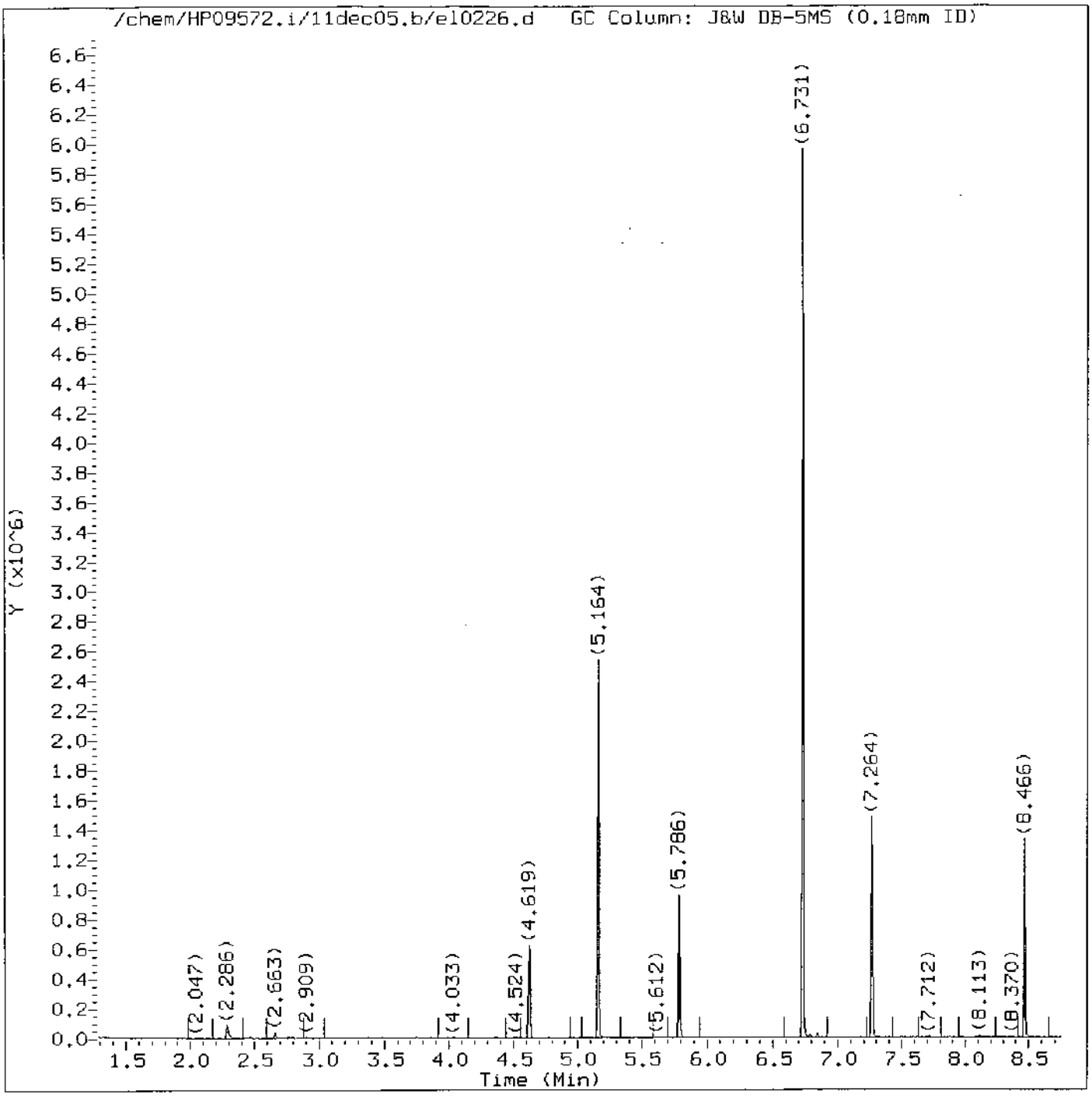
THIS SPACE
WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 16

Digitally signed by Jennifer R. Riggs on 12/05/2011 at 20:57. Target 3.5 esignature user ID: jrr02820

PCH09 6588

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

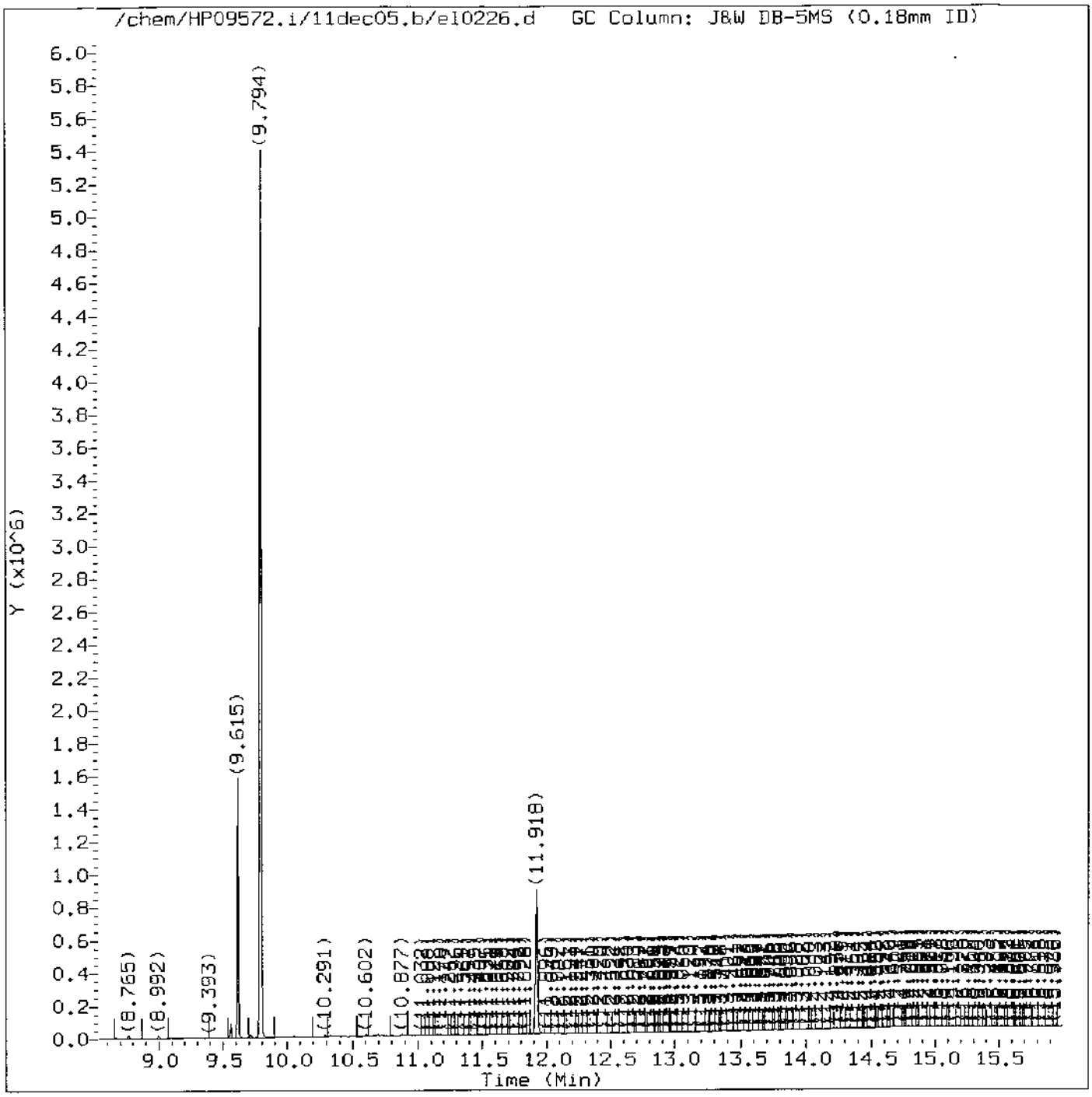
Data File: /chem/HP09572.i/11dec05.b/el0226.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 18:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:50 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477576

PCH09 8589

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:57.
Target 3.5 esignature user ID: jrr02820



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10226.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 18:52 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH0826
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 20:50 jrr02820

Sample Name: XXXXX Lab Sample ID: 6477576

PCH09 8598

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:57.
Target 3.5 esignature user ID: jrr02820

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0226.d
Injection date and time: 05-DEC-2011 18:52
Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Sublist used: WPAH0826
Date, time and analyst ID of latest file update: 05-Dec-2011 20:50 jrr02820

Sample Name: XXXXX
Lab Sample ID: 6477576

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.619	152	89708	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	755313	88.061
52)*Naphthalene-d8	(2)	5.792	136	395080	20.000
78)$2-Fluorobiphenyl	(3)	6.731	172	1491966	98.623
98)*Acenaphthene-d10	(3)	7.264	164	249994	20.000
135)*Phenanthrene-d10	(4)	8.472	188	428774	20.000
167)*Pyrene-d10	(5)	9.615	212	476105	20.000
156)$Terphenyl-d14	(5)	9.794	244	1413038	98.390
175)*Perylene-d12	(6)	11.918	264	327422	20.000

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

PCH89 8591

Digitally signed by Jennifer R. Riggs
on 12/05/2011 at 20:57.
Target 3.5 esignature user ID: jrr02820

Standards Data

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP09572 **HP #05**

*** Shift #1 Analyst: msw02109 *** 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:

*

*

*

*

Data Directory Path is - C:\MSDCHEM\1\DATA\11nov22b\

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	ek1120.D	DFTPP	8270DFTPP3131	22 Nov 2011	18:56			nu
1	ek1120z.D	DFTPP	8270DFTPP3131	22 Nov 2011	19:47			nu
1	ek1120y.D	DFTPP	8270DFTPP3131	22 Nov 2011	20:06			nu
1	ek1120x.D	DFTPP	8270DFTPP3131	22 Nov 2011	20:27			nu
1	ek1120w.D	DFTPP	8270DFTPP3131	22 Nov 2011	20:48			nu
1	ek1120v.D	DFTPP	8270DFTPP3131	22 Nov 2011	21:12			mr
2	ek1121.D	SSTD030	STD3191	22 Nov 2011	21:28			nu
2	ek1121a.D	SSTD030	STD3191	22 Nov 2011	21:56			mr
3	ek1122.D	SSTD0.5	STD3191	22 Nov 2011	22:19			mr
4	ek1123.D	SSTD120	STD3191	22 Nov 2011	22:43			mr
5	ek1124.D	SSTD080	STD3191	22 Nov 2011	23:07			mr
6	ek1125.D	SSTD050	STD3191	22 Nov 2011	23:31			mr
7	ek1126.D	SSTD015	STD3191	22 Nov 2011	23:55			mr
8	ek1127.D	SSTD005	STD3191	23 Nov 2011	00:19			mr
9	ek1128.D	SSTD001	STD3191	23 Nov 2011	00:43			mr
3	ek1129.D	SSTD0.5	STD3191	23 Nov 2011	01:08			mr
10	ek1130.D	SSTD0.1	STDMDL3191	23 Nov 2011	01:32			mr
11	ek1131.D	SSTD050	ICV2691	23 Nov 2011	01:56			mr
12	ek1132.D	SSTD050	BASICV2971	23 Nov 2011	02:20			mr
13	ek1133.D	SSTD050	STD3081	23 Nov 2011	02:44			mr
14	ek1134.D	SSTD120	STD3081	23 Nov 2011	03:08			mr
15	ek1135.D	SSTD080	STD3081	23 Nov 2011	03:32			mr
16	ek1136.D	SSTD030	STD3081	23 Nov 2011	03:56			mr
17	ek1137.D	SSTD015	STD3081	23 Nov 2011	04:20			mr
18	ek1138.D	SSTD005	STD3081	23 Nov 2011	04:45			mr
19	ek1139.D	SSTD001	STD3081	23 Nov 2011	05:09			mr
20	ek1140.D	SSTD050	STD2091	23 Nov 2011	05:33			mr

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP09572 **HP #05**

*** Shift #1 Analyst: MSW *** Shift #2 Analyst: JRR|2820 *

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\11dec05\

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	e10200.D	DFTPP	8270DFTPP3131	05 Dec 2011	07:58			MR
2	e10201.D	SSTD030	STD3321	05 Dec 2011	08:17			MR
3	e10202.D	SBLKWK3255	SBLKWK325	05 Dec 2011	09:16	11325WAK		MR
4	e10203.D	325WKLCS5	325WKLCS	05 Dec 2011	09:40	11325WAK		MR
5	e10204.D	SBLKWB3365	SBLKWB336	05 Dec 2011	10:04	11336WAB		MR
6	e10205.D	336WBLCS5	336WBLCS	05 Dec 2011	10:28	11336WAB		MR
7	e10206.D	XXXXXDL	6477836	05 Dec 2011	10:52	11326WAH	10	MR
8	e10207.D	XXXXXDL	6477842	05 Dec 2011	11:15	11326WAH	10	MR
9	e10208.D	XXXXX	6476633	05 Dec 2011	11:39	11325WAK		MR
10	e10209.D	XXXXX	6476634	05 Dec 2011	12:03	11325WAK		MR
11	e10210.D	XXXXX	6476635	05 Dec 2011	12:28	11325WAK		MR
13	e10211.D	XXXXX	6477561	05 Dec 2011	12:52	11325WAK		MR
14	e10212.D	XXXXXMS	6477562	05 Dec 2011	13:16	11325WAK		MR
15	e10213.D	XXXXXMSD	6477563	05 Dec 2011	13:40	11325WAK		MR
16	e10214.D	XXXXX	6477564	05 Dec 2011	14:04	11325WAK		MR
17	e10215.D	XXXXX	6477565	05 Dec 2011	14:28	11325WAK		MR
18	e10216.D	XXXXX	6477566	05 Dec 2011	14:52	11325WAK		MR
19	e10217.D	XXXXX	6477567	05 Dec 2011	15:16	11325WAK		MR
20	e10218.D	XXXXX	6477568	05 Dec 2011	15:40	11325WAK		MR
21	e10219.D	XXXXX	6477569	05 Dec 2011	16:04	11325WAK		MR
22	e10220.D	XXXXX	6477570	05 Dec 2011	16:29	11325WAK		MR
23	e10221.D	XXXXX	6477571	05 Dec 2011	16:53	11325WAK		MR
24	e10222.D	XXXXX	6477572	05 Dec 2011	17:16	11325WAK		MR
25	e10223.D	XXXXX	6477573	05 Dec 2011	17:41	11325WAK		MR
26	e10224.D	XXXXX	6477574	05 Dec 2011	18:04	11325WAK		MR
27	e10225.D	XXXXX	6477575	05 Dec 2011	18:28	11325WAK		MR
28	e10226.D	XXXXX	6477576	05 Dec 2011	18:52	11325WAK		MR

Data File: /chem/HP09572.i/11nov22b.b/ek1120v.d

Date : 22-NOV-2011 21:12

Client ID: DFTPP

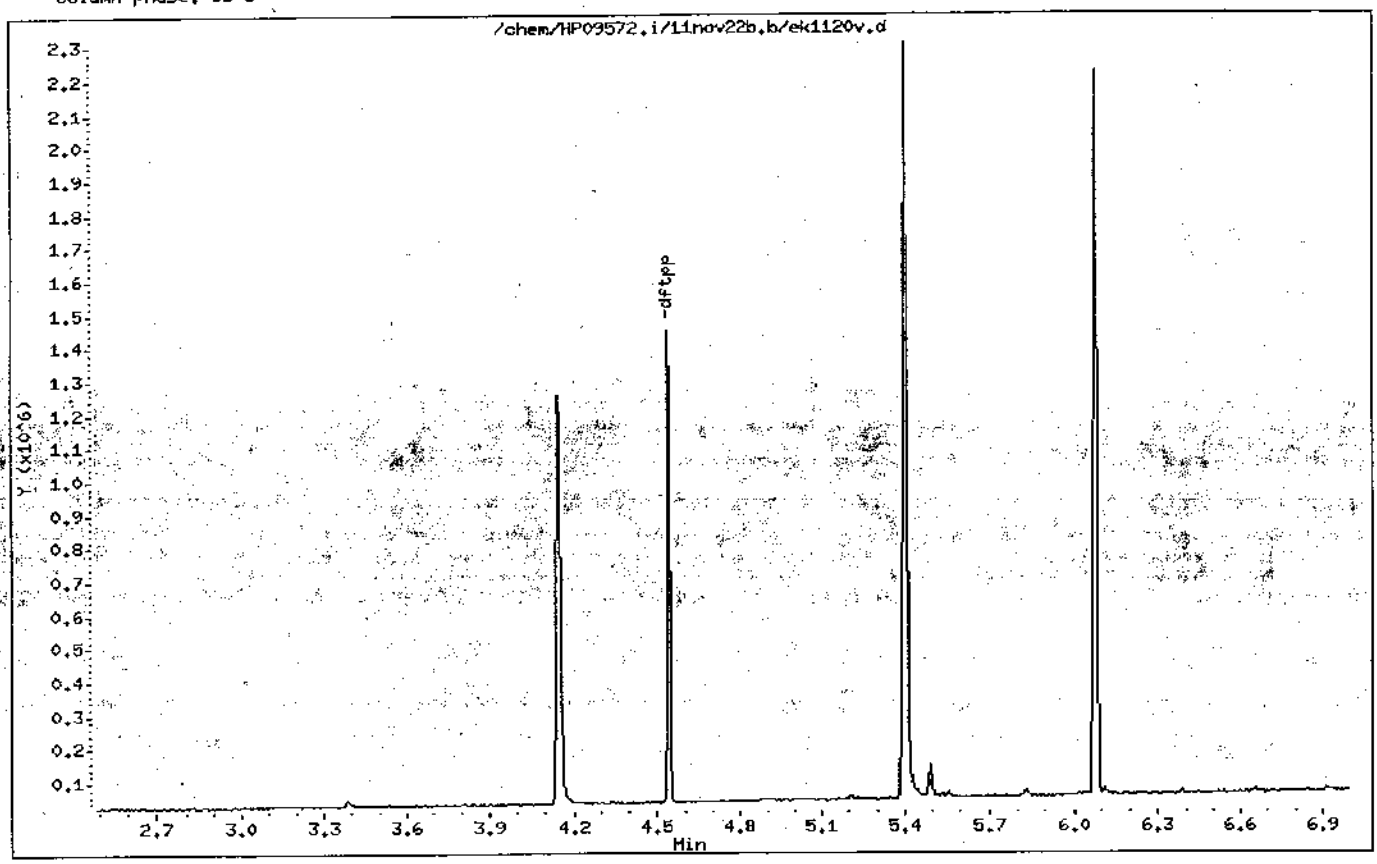
Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP3131;

Operator: jrr02820

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP09572.i/11nov22b.b/ek1120v.d

Date : 22-NOV-2011 21:12

Client ID: DFTPP

Instrument: HP09572.i

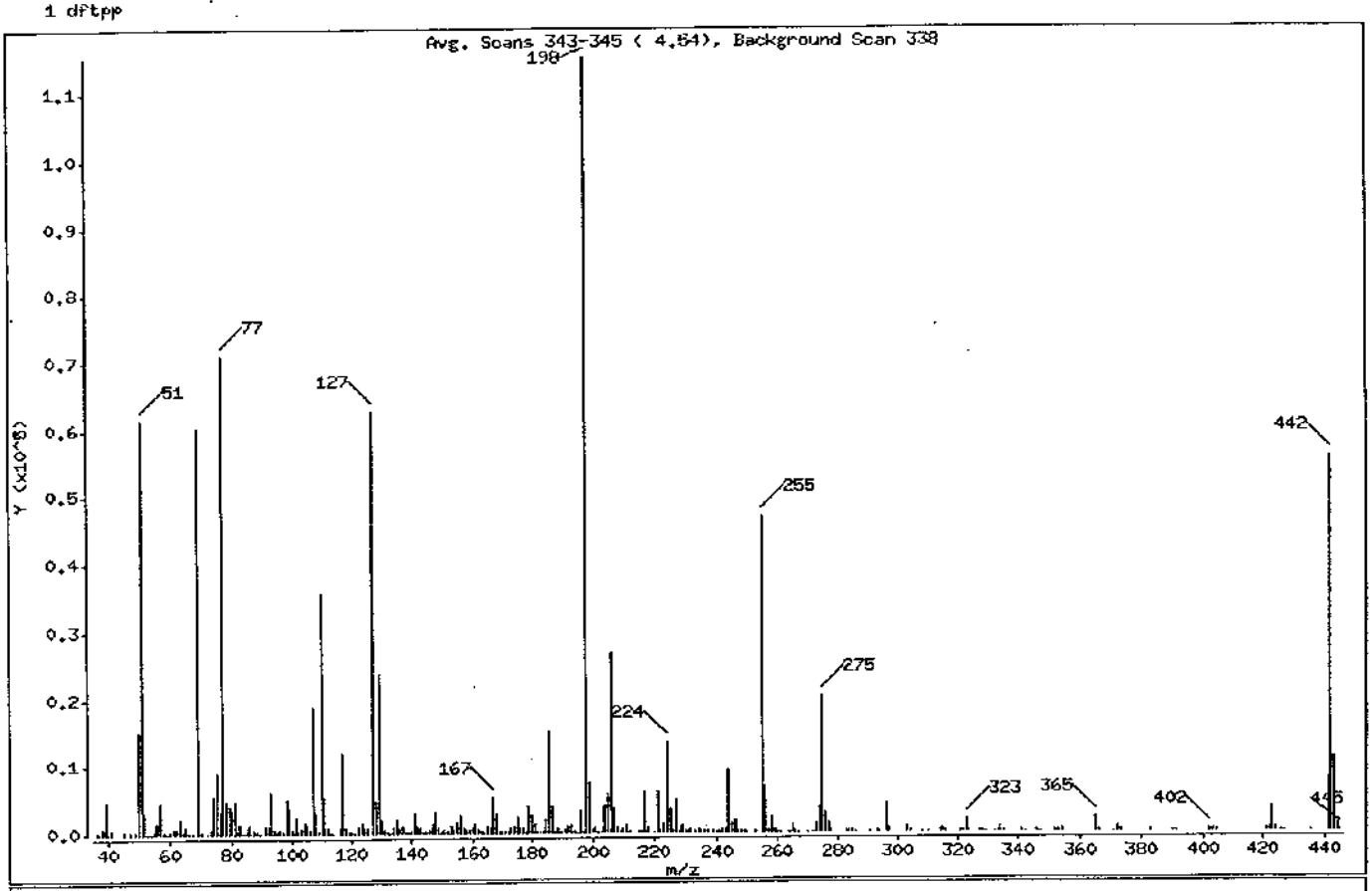
Sample Info: DFTPP;8270DFTPP3131;

Operator: jrr02820

Column phase: DB-5

Column diameter: 0.25

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	53.40
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.41
70	Less than 2.00% of mass 69	0.30 (0.58)
127	40.00 - 60.00% of mass 198	54.45
197	Less than 1.00% of mass 198	0.28
199	5.00 - 9.00% of mass 198	6.47
275	10.00 - 30.00% of mass 198	17.56
365	Greater than 1.00% of mass 198	1.84
441	Present, but less than mass 443	6.83
442	40.00 - 99.99% of mass 198	48.36
443	17.00 - 23.00% of mass 442	9.49 (19.63)

Data File: /chem/HP09572.i/11nov22b.b/ek1120v.d

Date : 22-NOV-2011 21:12

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP3131;

Operator: jrr02820

Column phase: DB-5

Column diameter: 0.25

Data File: ek1120v.d

Spectrum: Avg. Scans 343-345 (4.54), Background Scan 338

Location of Maximum: 198.00

Number of points: 277

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	233	114.00	53	186.00	15029	266.00	271
37.00	132	116.00	908	187.00	3900	267.00	52
38.00	820	117.00	11966	188.00	356	270.00	67
39.00	4708	118.00	921	189.00	836	272.00	57
40.00	129	119.00	154	190.00	158	273.00	1322
41.00	411	120.00	345	191.00	402	274.00	3664
45.00	400	121.00	54	192.00	1157	275.00	20256
47.00	186	122.00	1056	193.00	1412	276.00	2847
49.00	323	123.00	1573	194.00	275	277.00	1385
50.00	15115	124.00	692	195.00	98	278.00	369
51.00	61608	125.00	865	196.00	3316	283.00	201
52.00	3277	127.00	62816	197.00	320	284.00	174
53.00	7	128.00	4811	198.00	115368	285.00	281
54.00	63	129.00	23816	199.00	7460	286.00	92
55.00	439	130.00	2024	200.00	540	291.00	57
56.00	1664	131.00	423	201.00	866	293.00	391
57.00	4545	132.00	137	202.00	127	294.00	56
58.00	288	133.00	57	203.00	669	296.00	4242
59.00	66	134.00	714	204.00	4006	297.00	517
60.00	176	135.00	2163	205.00	5872	303.00	677
61.00	858	136.00	816	206.00	26800	304.00	194
62.00	879	137.00	1022	207.00	3708	308.00	64
63.00	2047	138.00	158	208.00	726	310.00	63
64.00	363	139.00	144	209.00	353	314.00	168
65.00	1173	140.00	272	210.00	416	315.00	542
66.00	83	141.00	2802	211.00	1116	316.00	313
67.00	68	142.00	977	212.00	155	321.00	216
69.00	60456	143.00	704	215.00	203	322.00	136
70.00	350	144.00	169	216.00	135	323.00	1774
72.00	130	145.00	226	217.00	6198	324.00	299
73.00	589	146.00	648	218.00	765	327.00	294
74.00	5460	147.00	1371	220.00	56	328.00	169
75.00	9120	148.00	3166	221.00	6111	329.00	50
76.00	3284	149.00	767	222.00	238	332.00	61
77.00	71112	150.00	214	223.00	1429	333.00	218

Data File: /chem/HP09572.i/11nov22b.b/ek1120v.d

Date : 22-NOV-2011 21:12

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP3131;

Operator: jrr02820

Column phase: DB-5

Column diameter: 0.25

Data File: ek1120v.d

Spectrum: Avg. Scans 343-345 (4,54), Background Scan 338

Location of Maximum: 198.00

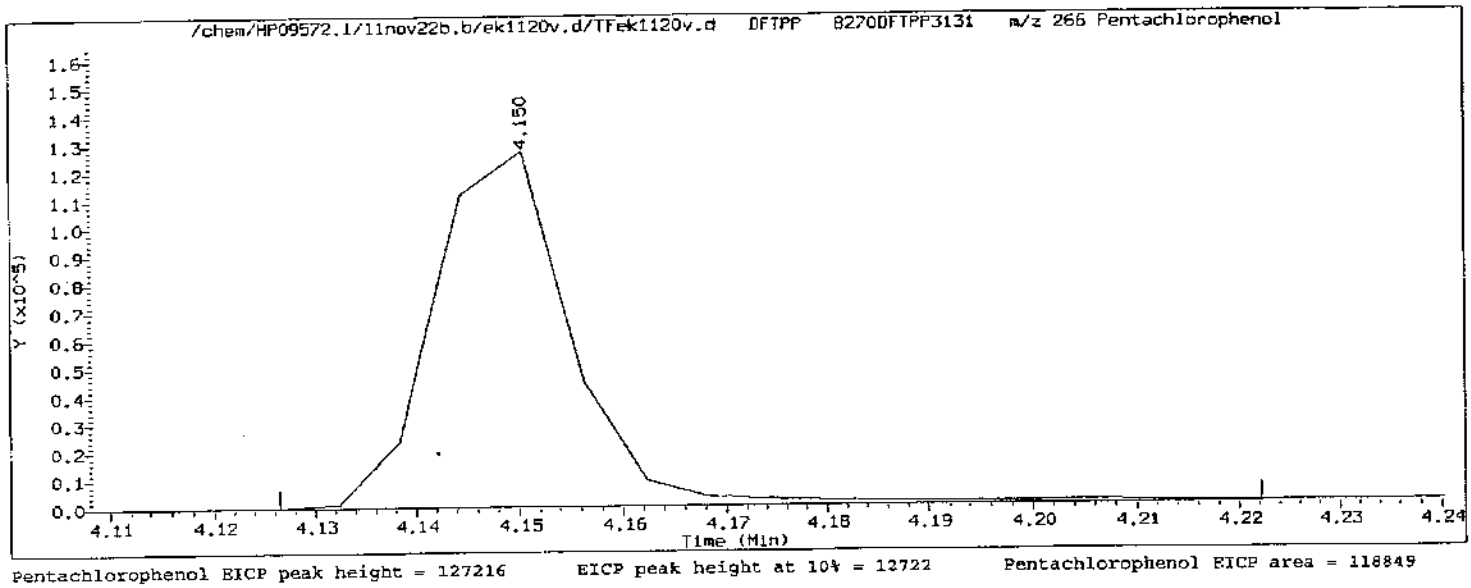
Number of points: 277

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	4644	151.00	404	224.00	13432	334.00	904
79.00	4058	152.00	267	225.00	3317	335.00	220
80.00	3450	153.00	1118	226.00	329	341.00	184
81.00	4707	154.00	636	227.00	4747	342.00	74
82.00	1375	155.00	1631	228.00	680	346.00	199
83.00	1277	156.00	2534	229.00	1015	347.00	82
84.00	66	157.00	723	230.00	197	352.00	377
85.00	807	158.00	656	231.00	442	353.00	354
86.00	1237	159.00	422	233.00	168	354.00	532
87.00	570	160.00	845	234.00	412	365.00	2120
88.00	256	161.00	1428	235.00	291	366.00	219
89.00	50	162.00	401	236.00	203	371.00	91
91.00	1179	163.00	145	237.00	385	372.00	699
92.00	1107	164.00	53	239.00	256	373.00	156
93.00	5996	165.00	987	240.00	113	383.00	253
94.00	543	166.00	755	241.00	260	390.00	73
95.00	134	167.00	5175	242.00	654	391.00	51
96.00	491	168.00	2959	243.00	648	402.00	357
97.00	265	169.00	394	244.00	9214	403.00	320
98.00	5145	170.00	209	245.00	1299	404.00	161
99.00	3788	171.00	272	246.00	1874	421.00	342
100.00	441	172.00	363	247.00	346	422.00	447
101.00	2512	173.00	673	248.00	138	423.00	3420
102.00	179	174.00	1135	249.00	346	424.00	582
103.00	913	175.00	2302	250.00	65	426.00	56
104.00	1587	176.00	784	253.00	211	427.00	68
105.00	1265	177.00	928	255.00	46936	435.00	54
106.00	475	178.00	258	256.00	7021	441.00	7875
107.00	18728	179.00	3957	257.00	471	442.00	55784
108.00	3078	180.00	2678	258.00	2400	443.00	10953
109.00	202	181.00	1249	259.00	432	444.00	977
110.00	35696	182.00	202	260.00	52	445.00	81
111.00	5434	183.00	159	261.00	124		
112.00	778	184.00	296	264.00	125		
113.00	69	185.00	2134	265.00	1034		

PCH85 8598

Assessment of GC Column Performance and Injection Port Inertness for

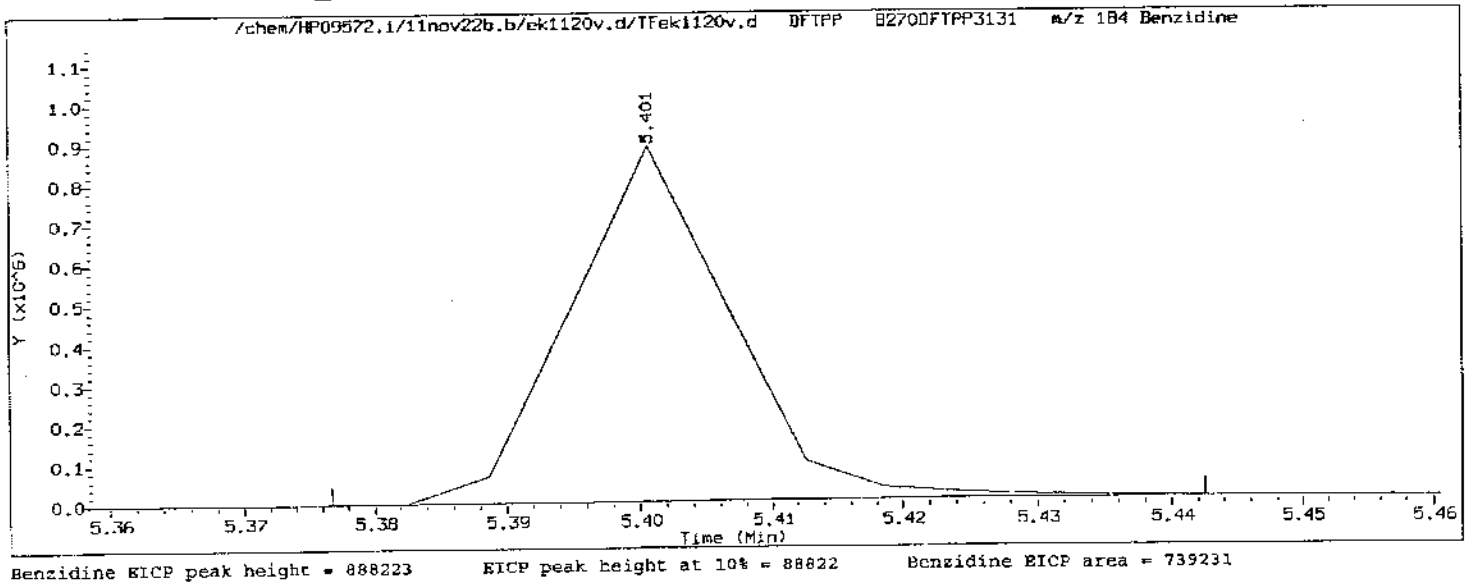
Instrument ID: HP09572.i Injection Date: 22-NOV-2011 21:12 Operator: jrr02820



Pentachlorophenol EICP peak height = 127216 EICP peak height at 10% = 12722 Pentachlorophenol EICP area = 118849

Pentachlorophenol EICP peak apex (min.) = 4.150
RT at 10% of front half of EICP (min.) = 4.135 'Front' peak width (min.) = 0.0148833333
RT at 10% of back half of EICP (min.) = 4.162 'Tailing' peak width (min.) = 0.0113333333

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0113333333}{0.0148833333} = 0.761$



Benzidine EICP peak height = 888223 EICP peak height at 10% = 88822 Benzidine EICP area = 739231

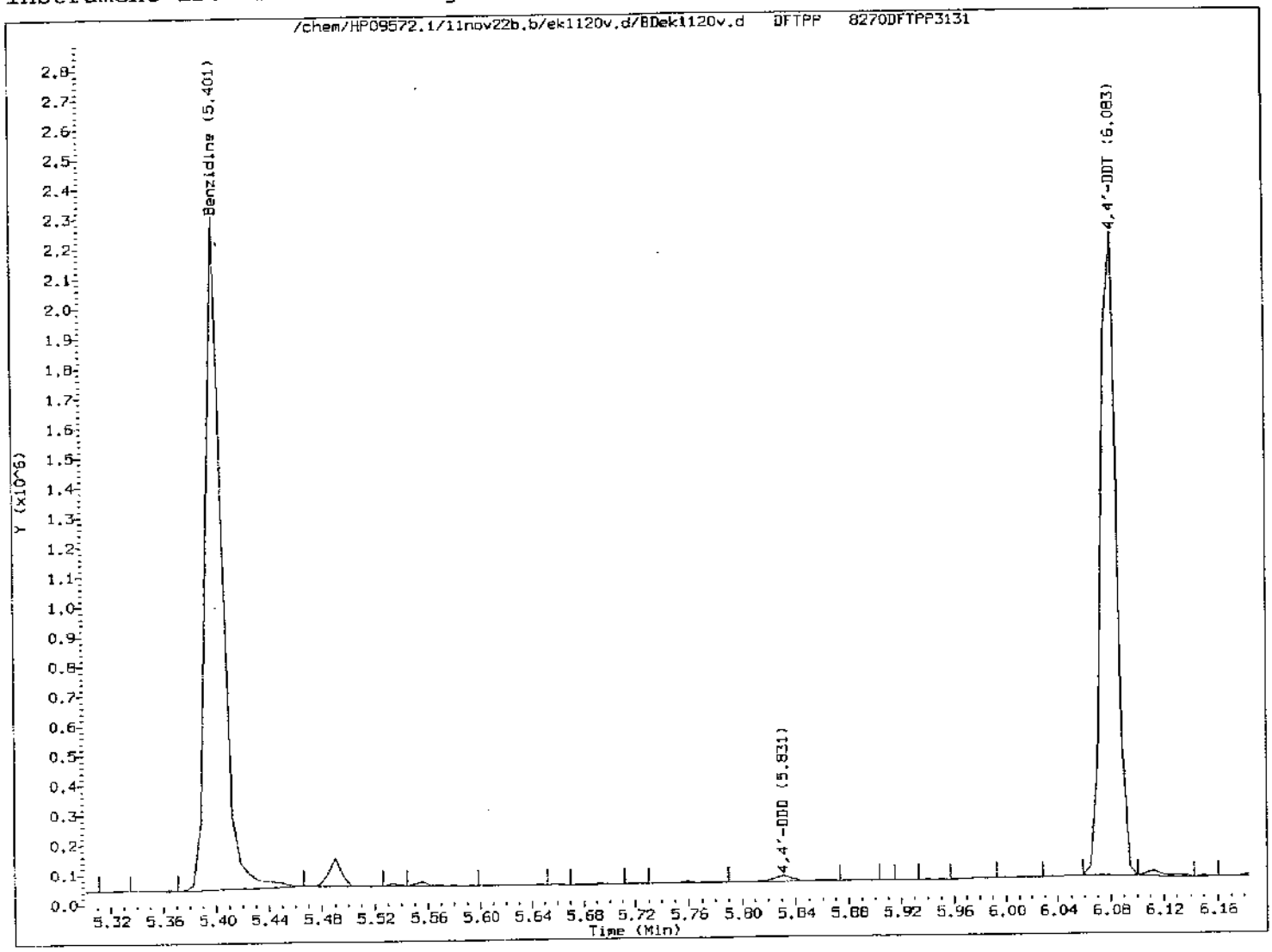
Benzidine EICP peak apex (min.) = 5.401
RT at 10% of front half of EICP (min.) = 5.389 'Front' peak width (min.) = 0.0116000000
RT at 10% of back half of EICP (min.) = 5.413 'Tailing' peak width (min.) = 0.0128000000

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0128000000}{0.0116000000} = 1.103$

PCH89 0599

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP09572.i Injection Date: 22-NOV-2011 21:12 Operator: jrr02820

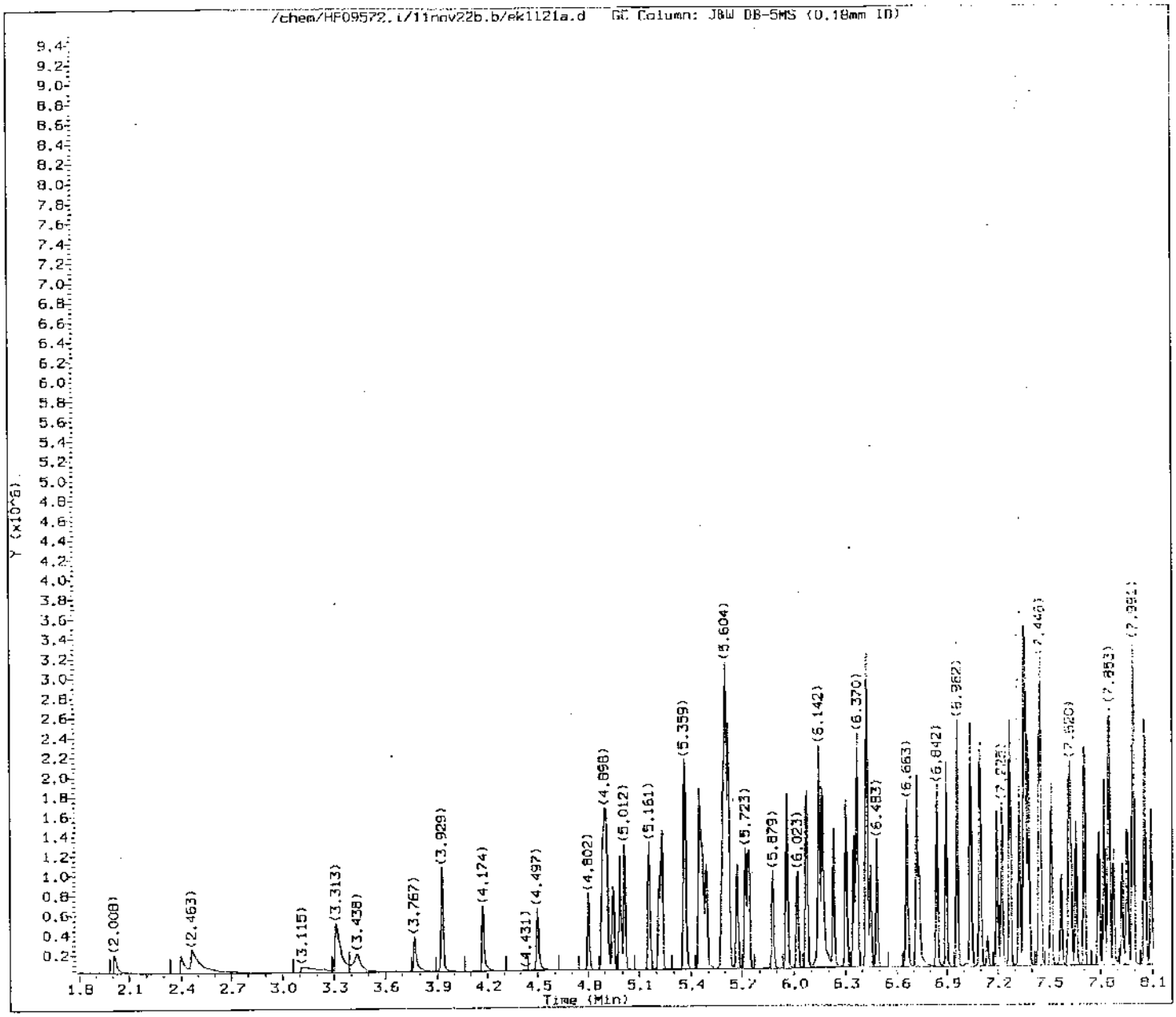


$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 27916}{0 + 27916 + 1771373} \times 100 = 1.6$$

PCH89 8688

printed on 11/22/2011 at 21:26



Quant Report

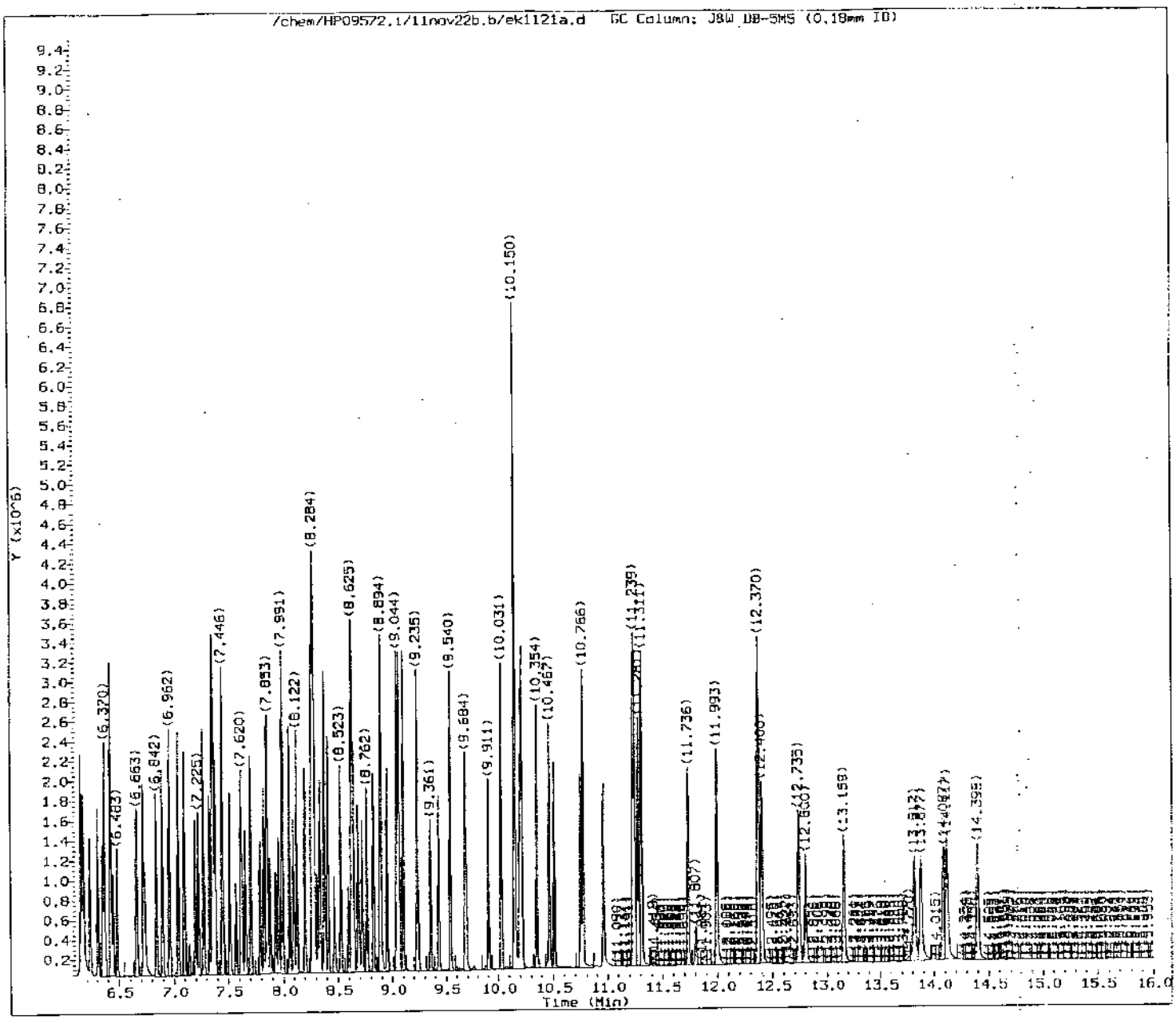
Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

11/23/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

PCH89 6682

11/23/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.008	88	89292	30.0000
2)	N-Nitrosodimethylamine	(1)	2.397	74	163012	30.0000
3)	Pyridine	(1)	2.463	79	311715M	30.0000
5)	2-Picoline	(1)	3.313	93	300084	30.0000
6)	N-Nitrosomethylethylamine	(1)	3.438	88	157403	30.0000
7)	Methyl methanesulfonate	(1)	3.767	80	151041	30.0000
10)	N-Nitrosodiethylamine	(1)	4.174	102	156739	30.0000
11)	Ethyl methanesulfonate	(1)	4.497	109	145763	30.0000
13)	Aniline	(1)	4.910	93	510714	30.0000
16)	Phenol	(1)	4.898	94	443164	30.0000
18)	bis(2-Chloroethyl)ether	(1)	4.988	93	321588	30.0000
19)	2-Chlorophenol	(1)	5.012	128	282773	30.0000
20)	1,3-Dichlorobenzene	(1)	5.161	146	268895	30.0000
21)	1,4-Dichlorobenzene-d4	(1)	5.215	152	110510	20.0000
22)	1,4-Dichlorobenzene	(1)	5.233	146	278009	30.0000
24)	Benzyl alcohol	(1)	5.359	108	215892	30.0000
25)	1,2-Dichlorobenzene	(1)	5.365	146	262862	30.0000
26)	2-Methylphenol	(1)	5.466	108	282292	30.0000
27)	2,2'-oxybis(1-Chloropropane)	(1)	5.490	45	512395	30.0000
28)	bis(2-Chloroisopropyl)ether	(1)	5.490	45	512395	30.0000
29)	N-Nitrosopyrrolidine	(1)	5.580	100	178593	30.0000
30)	Acetophenone	(1)	5.592	105	418906	30.0000
31)	N-Nitroso-di-n-propylamine	(1)	5.604	70	252789	30.0000
32)	N-Nitrosomorpholine	(1)	5.622	56	224689	30.0000
33)	4-Methylphenol	(1)	5.604	108	343422	30.0000
34)	o-Toluidine	(1)	5.622	106	484703	30.0000
37)	Hexachloroethane	(1)	5.676	117	107386	30.0000
39)	Nitrobenzene	(2)	5.741	77	350059	30.0000
40)	N-Nitrosopiperidine	(2)	5.879	114	159860	30.0000
41)	Isophorone	(2)	5.963	82	658302	30.0000
42)	2-Nitrophenol	(2)	6.023	139	155415	30.0000
44)	2,4-Dimethylphenol	(2)	6.076	107	313206	30.0000
45)	O,O,O-triethylphosphorothioate	(2)	6.142	198	132718	30.0000
46)	bis(2-Chloroethoxy)methane	(2)	6.160	93	408187	30.0000
47)	Benzoic acid	(2)	6.172	105	385473	40.0000
49)	2,4-Dichlorophenol	(2)	6.232	162	230207	30.0000
50)	1,2,4-Trichlorobenzene	(2)	6.304	180	239401	30.0000
52)	Naphthalene-d8	(2)	6.352	136	507749	20.0000
53)	Naphthalene	(2)	6.370	128	859582	30.0000
56)	4-Chloroaniline	(2)	6.423	127	381719	30.0000
57)	2,6-Dichlorophenol	(2)	6.423	162	229019	30.0000
58)	Hexachloropropene	(2)	6.447	213	118258	30.0000
60)	Hexachlorobutadiene	(2)	6.483	225	102283	30.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
63) Caprolactam	(2)	6.734	113	128808M	30.0000
64) N-Nitrosodi-n-butylamine	(2)	6.723	84	327918	30.0000
68) 4-Chloro-3-methylphenol	(2)	6.842	107	293472	30.0000
69) Safrole	(2)	6.896	162	225562	30.0000
70) 2-Methylnaphthalene	(2)	6.962	142	571126	30.0000
71) 1-Methylnaphthalene	(2)	7.040	142	545589	30.0000
72) Hexachlorocyclopentadiene	(3)	7.093	237	104089	30.0000
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.099	216	218599	30.0000
74) cis-Isosafrole	(3)	7.141	162	39227	3.3000
75) 2,4,6-Trichlorophenol	(3)	7.195	196	170017	30.0000
77) 2,4,5-Trichlorophenol	(3)	7.225	196	188969	30.0000
79) trans-Isosafrole	(3)	7.327	162	235362	26.7000
80) Isosafrole	(3)	7.327	162	235362	30.0000
83) 1,1'-Biphenyl	(3)	7.357	154	711047	30.0000
84) 2-Chloronaphthalene	(3)	7.363	162	685313M	30.0000
85) 1-Chloronaphthalene	(3)	7.381	162	555261M	30.0000
88) Diphenyl ether	(3)	7.446	170	371052	30.0000
89) 2-Nitroaniline	(3)	7.452	138	205909	30.0000
90) 1,4-Naphthoquinone	(3)	7.512	158	247617	30.0000
91) 1,4-Dinitrobenzene	(3)	7.572	168	104010	30.0000
92) Dimethylphthalate	(3)	7.620	163	642089	30.0000
93) 1,3-Dinitrobenzene	(3)	7.632	168	121928	30.0000
94) 2,6-Dinitrotoluene	(3)	7.662	165	156429	30.0000
95) Acenaphthylene	(3)	7.704	152	851368	30.0000
97) 3-Nitroaniline	(3)	7.793	138	181424	30.0000
98) Acenaphthene-d10	(3)	7.823	164	326029	20.0000
99) Acenaphthene	(3)	7.853	153	554648	30.0000
100) 2,4-Dinitrophenol	(3)	7.877	184	120873	40.0000
101) Pentachlorobenzene	(3)	7.961	250	174220	30.0000
103) 4-Nitrophenol	(3)	7.931	109	90944M	30.0000
104) Dibenzofuran	(3)	7.997	168	791709	30.0000
105) 2,4-Dinitrotoluene	(3)	7.991	165	207738	30.0000
106) 1-Naphthylamine	(3)	8.057	143	654408	30.0000
107) 2,3,4,6-Tetrachlorophenol	(3)	8.092	232	128312	30.0000
108) 2-Naphthylamine	(3)	8.122	143	674322	30.0000
109) Diethylphthalate	(3)	8.200	149	643521	30.0000
110) Thionazin	(3)	8.266	107	137524	30.0000
111) Fluorene	(3)	8.278	166	676703	30.0000
112) 4-Chlorophenyl-phenylether	(3)	8.284	204	300755	30.0000
113) 5-Nitro-o-toluidine	(3)	8.290	152	210904	30.0000
114) 4-Nitroaniline	(3)	8.296	138	201348	30.0000
115) 4,6-Dinitro-2-methylphenol	(4)	8.320	198	123310	30.0000
117) N-Nitrosodiphenylamine	(4)	8.380	169	576054	30.0000

M = Compound was manually integrated. A = User selected an alternate hit

PCH89 8684

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
118)	1,2-Diphenylhydrazine	(4)	8.409	77	799715	30.0000
120)	Tetraethyldithiopyrophosphate	(4)	8.523	97	110154	30.0000
121)	1,3,5-Trinitrobenzene	(4)	8.595	213	77411	30.0000
122)	Diallate (peak 1)	(4)	8.625	86	309303	22.5000
123)	Phorate	(4)	8.631	75	518682	30.0000
124)	Phenacetin	(4)	8.643	108	386717	30.0000
125)	4-Bromophenyl-phenylether	(4)	8.685	248	139902	30.0000
126)	Diallate (peak 2)	(4)	8.697	86	64209	7.5000
127)	Hexachlorobenzene	(4)	8.721	284	130637	30.0000
128)	Dimethoate	(4)	8.762	87	320681	30.0000
129)	Diallate TRANS/CIS	(4)	23.156	86	373512	30.0000
131)	Pentachlorophenol	(4)	8.882	266	103436	30.0000
132)	Pentachloronitrobenzene	(4)	8.894	237	59863	30.0000
133)	4-Aminobiphenyl	(4)	8.894	169	553940	30.0000
134)	Pronamide	(4)	8.954	173	287834	30.0000
135)	Phenanthrene-d10	(4)	9.044	188	560418	20.0000
136)	Dinoseb	(4)	9.044	211	168209	30.0000
137)	Phenanthrene	(4)	9.062	178	965560	30.0000
138)	Anthracene	(4)	9.103	178	983462	30.0000
140)	Carbazole	(4)	9.235	167	963727	30.0000
141)	Methyl parathion	(4)	9.361	109	239663	30.0000
142)	Di-n-butylphthalate	(4)	9.540	149	1119463	30.0000
143)	Parathion	(4)	9.678	109	152637	30.0000
144)	4-Nitroquinoline-1-oxide	(4)	9.690	190	101280	30.0000
146)	Isodrin	(4)	9.911	193	105764	30.0000
147)	Fluoranthene	(4)	10.031	202	977657	30.0000
152)	Benzidine	(5)	10.150	184	2179120	90.0000
154)	Pyrene	(5)	10.216	202	1059067	30.0000
158)	p-Dimethylaminoazobenzene	(5)	10.467	225	206614	30.0000
159)	Chlorobenzilate	(5)	10.509	139	327687	30.0000
160)	3,3'-Dimethylbenzidine	(5)	10.743	212	610969	30.0000
161)	Butylbenzylphthalate	(5)	10.766	149	509016	30.0000
162)	2-Acetylaminofluorene	(5)	10.964	181	440606	30.0000
164)	3,3'-Dichlorobenzidine	(5)	11.227	252	305313	30.0000
165)	4,4'-Methylenebis(2-Chloroanil	(5)	11.233	231	164870	30.0000
166)	Benzo(a)anthracene	(5)	11.245	228	876168	30.0000
167)	Pyrene-d10	(5)	10.198	212	646825	20.0000
168)	Chrysene	(5)	11.281	228	852402	30.0000
169)	bis(2-Ethylhexyl)phthalate	(5)	11.311	149	679584	30.0000
189)	6-Methylchrysene	(5)	11.736	242	603618	30.0000
190)	Dibenz(a,h)acridine	(6)	13.817	279	511822	30.0000
170)	Di-n-octylphthalate	(6)	11.993	149	1087852	30.0000
191)	Dibenz(a,j)acridine	(6)	13.877	279	577576	30.0000

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

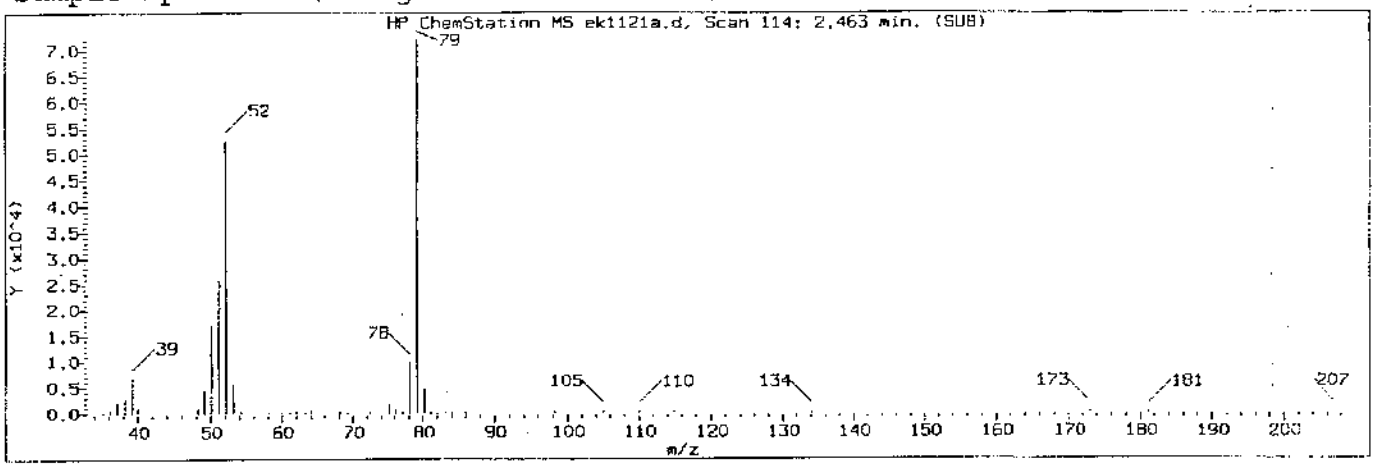
Sample Name: SSTD030 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
171)	7,12-Dimethylbenz[a]anthracene	(6)	12.370	256	369205	30.0000
172)	Benzo(b)fluoranthene	(6)	12.370	252	821618M	30.0000
194)	Quinoline	(2)	6.663	129	597897	30.0000
173)	Benzo(k)fluoranthene	(6)	12.400	252	799910M	30.0000
174)	Benzo(a)pyrene	(6)	12.735	252	724528	30.0000
175)	Perylene-d12	(6)	12.800	264	424995	20.0000
202)	NDPA as diphenylamine	(4)	8.380	169	576054	30.0000
176)	3-Methylcholanthrene	(6)	13.159	268	360230	30.0000
177)	Indeno(1,2,3-cd)pyrene	(6)	14.087	276	735063	30.0000
178)	Dibenz(a,h)anthracene	(6)	14.117	278	624085	30.0000
206)	Indene	(1)	5.448	115	447806	30.0000
179)	Benzo(g,h,i)perylene	(6)	14.398	276	607137	30.0000
9)	2-Fluorophenol	(1)	3.929	112	265551	30.0000
14)	Phenol-d5	(1)	4.886	99	385394	30.0000
15)	Phenol-d6	(1)	4.886	99	385394	30.0000
38)	Nitrobenzene-d5	(2)	5.723	82	343144	30.0000
78)	2-Fluorobiphenyl	(3)	7.273	172	606860	30.0000
119)	2,4,6-Tribromophenol	(3)	8.469	330	58903	30.0000
156)	Terphenyl-d14	(5)	10.354	244	597928	30.0000

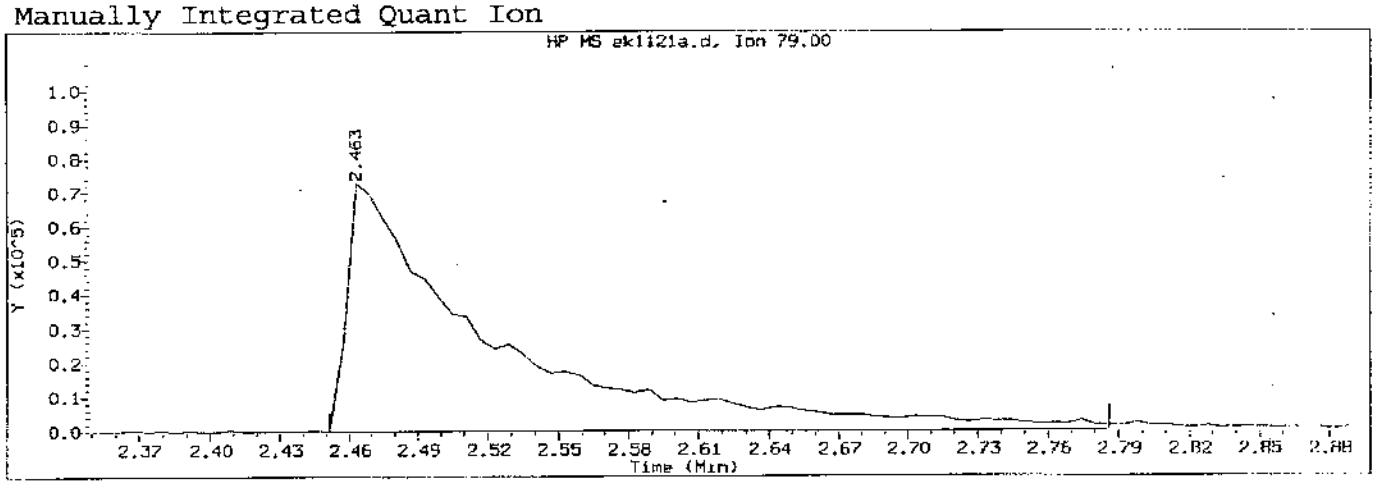
M = Compound was manually integrated. A = User selected an alternate hit

PCH89 0606

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number	: 3		
Compound Name	: Pyridine		
Scan Number	: 114		
Retention Time (minutes)	: 2.463		
Quant Ion	: 79		
Area (flag)	: 311715	M	
Concentration (ng/ul)	: 30.0000		
Integration start scan	: 111	Integration stop scan:	167
Y at integration start	: 50	Y at integration end:	50

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: Meyer 11/23/11

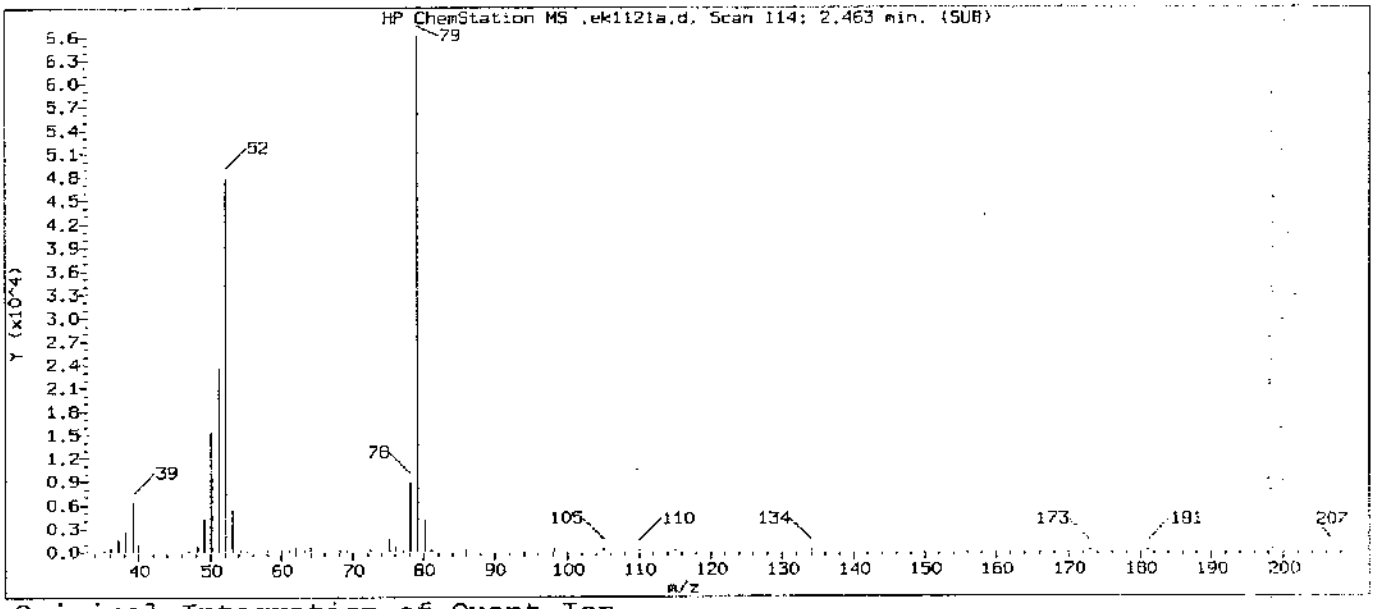
GC/MS audit/management approval: Matthew E. Barton PCH09 06687

NOV 25 2011

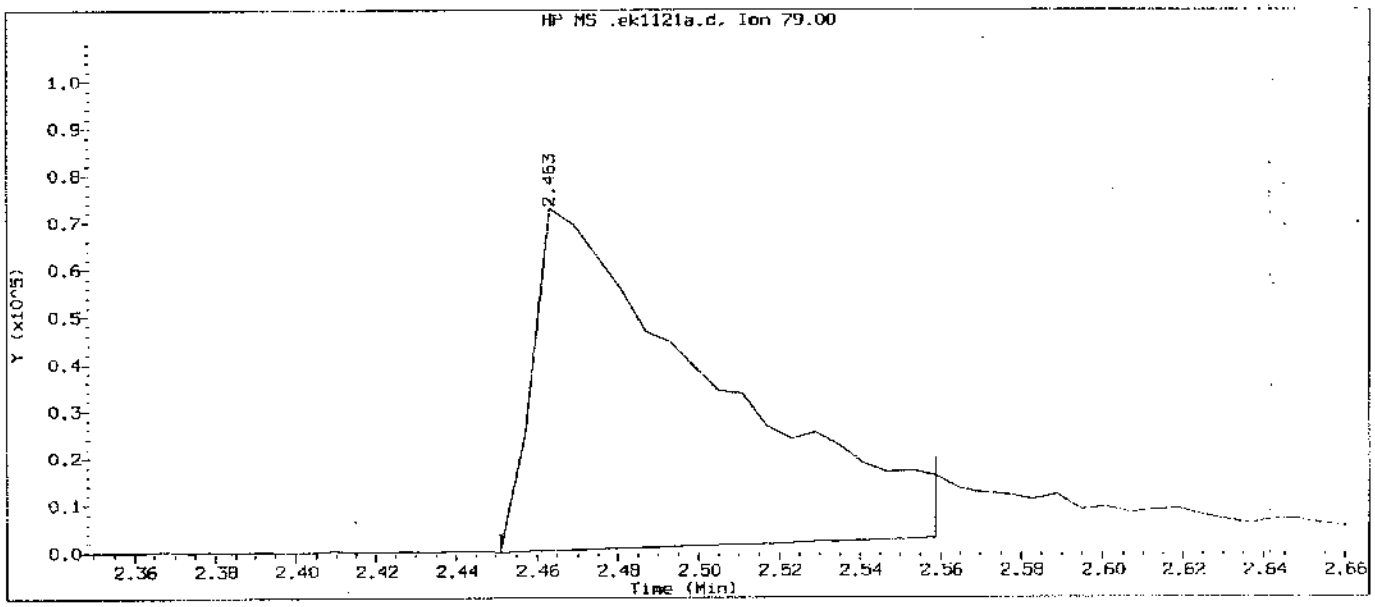
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:01
Date, time and analyst ID of latest file update: 23-Nov-2011 08:01 msw02109

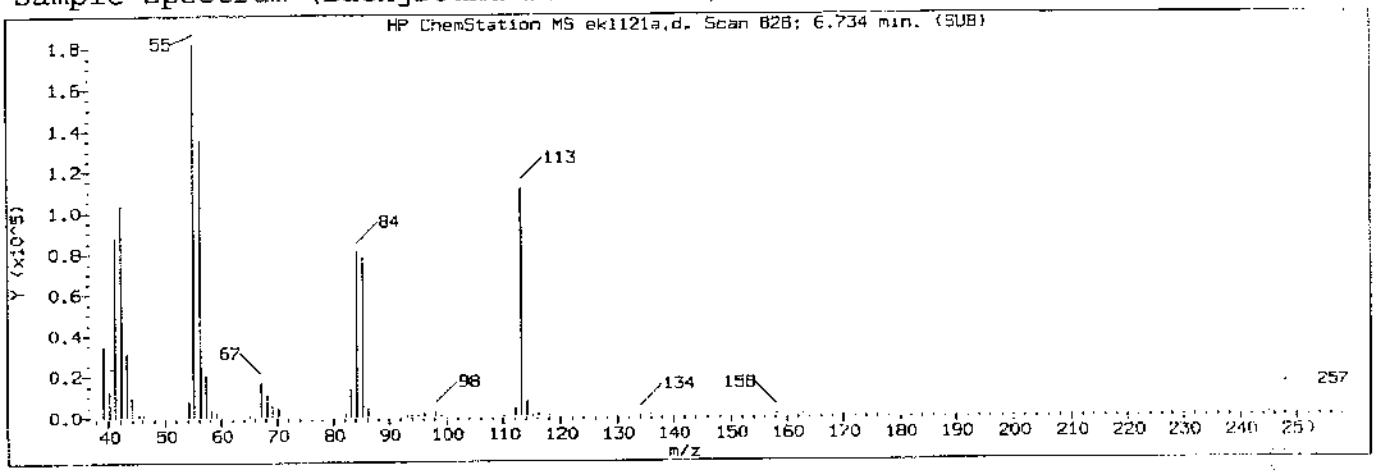
Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number	:	3
Compound Name	:	Pyridine
Scan Number	:	114
Retention Time (minutes)	:	2.463
Quant Ion	:	79
Area	:	221928
Concentration (ng/ul)	:	52.9457
Integration start scan	:	111 Integration stop scan: 129
Y at integration start	:	0 Y at integration end: 2849

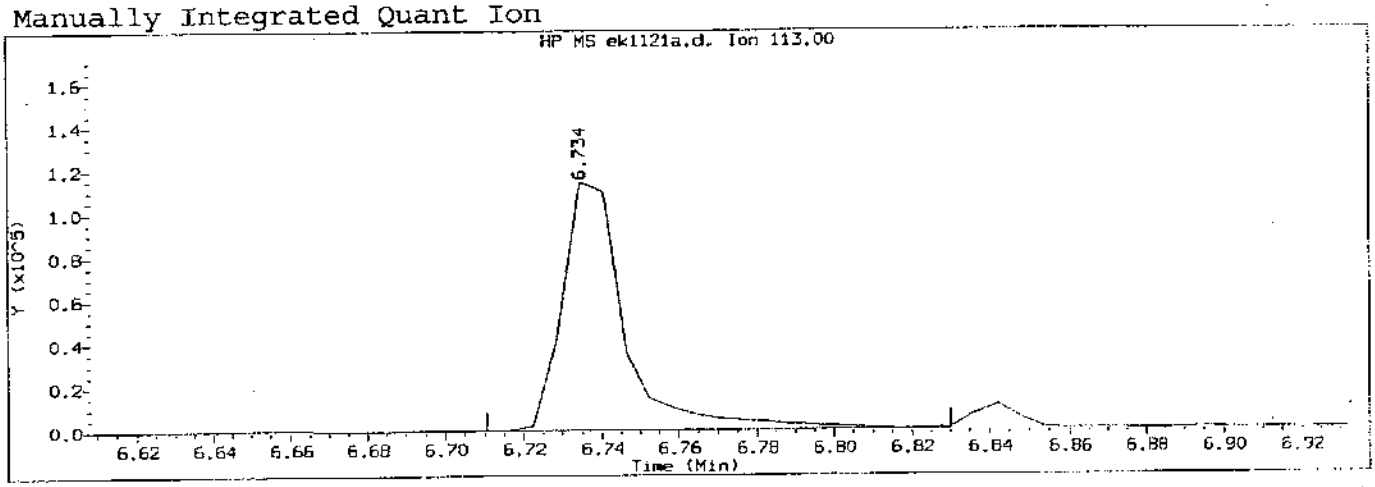
PCN69 0688

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number : 63
Compound Name : Caprolactam
Scan Number : 828
Retention Time (minutes): 6.734
Quant Ion : 113
Area (flag) : 128808 M
Concentration (ng/ul) : 30.0000
Integration start scan : 823 Integration stop scan: 843
Y at integration start : 0 Y at integration end: 27

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: msw2109 11/25/11

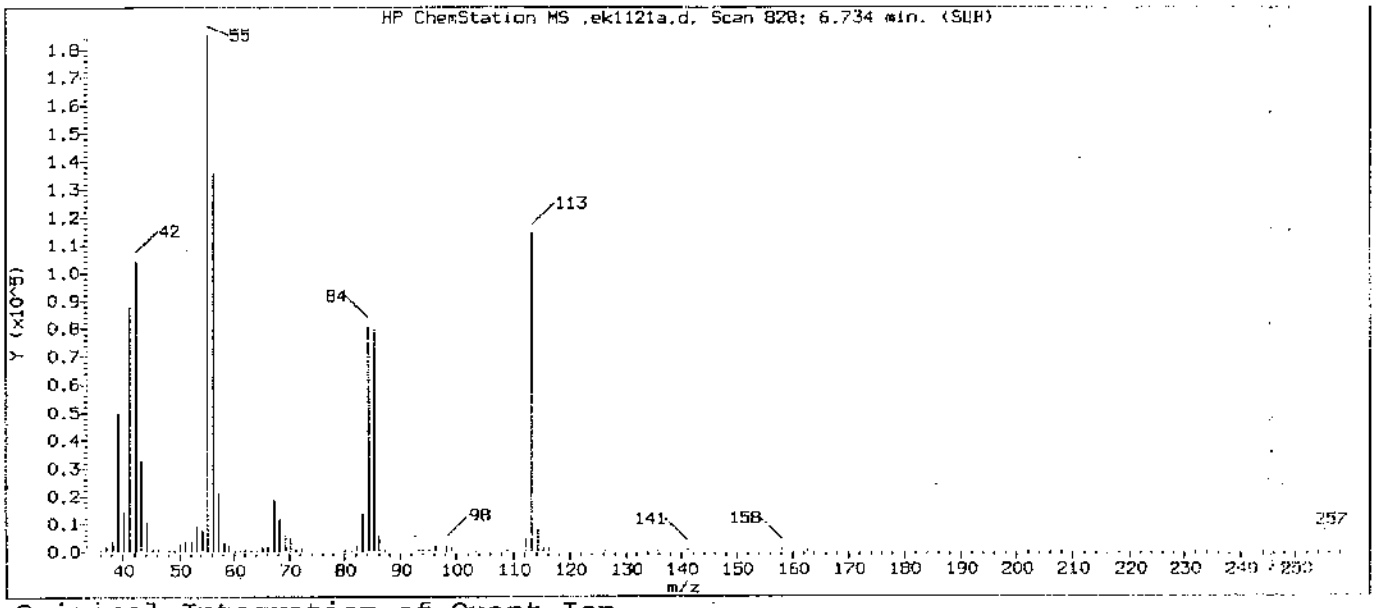
GC/MS audit/management approval: Matthew E. Barton PCH09 8609

NOV 25 2011

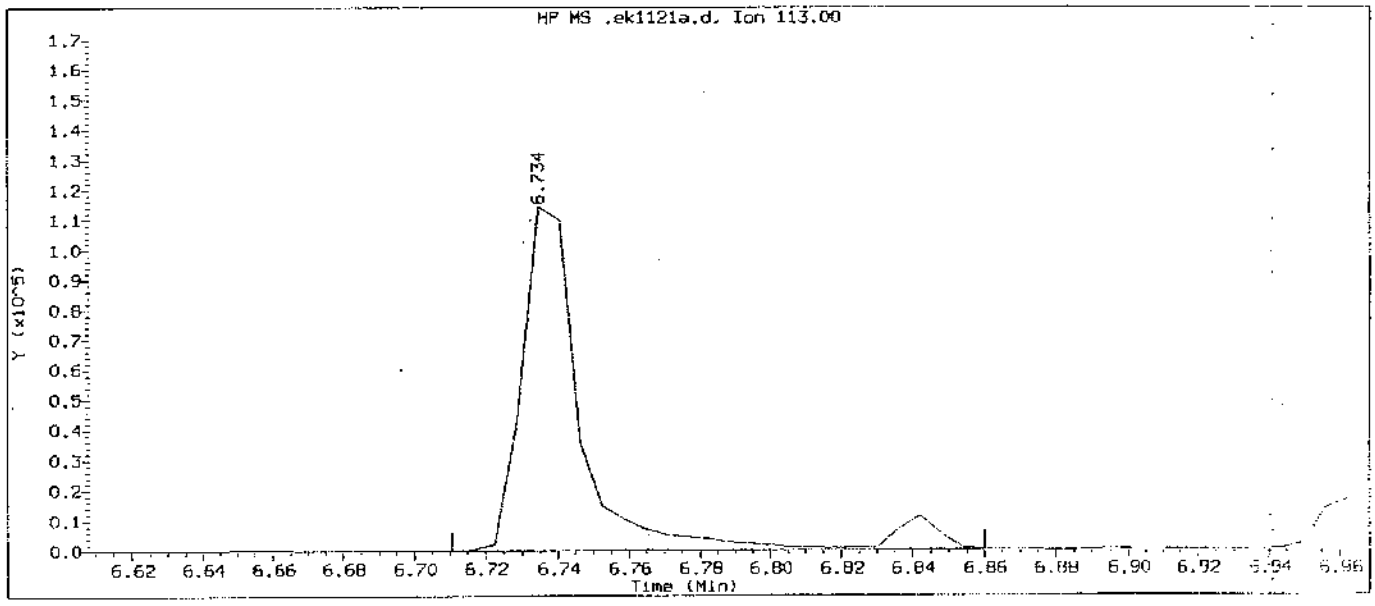
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:01
Date, time and analyst ID of latest file update: 23-Nov-2011 08:01 msw02109

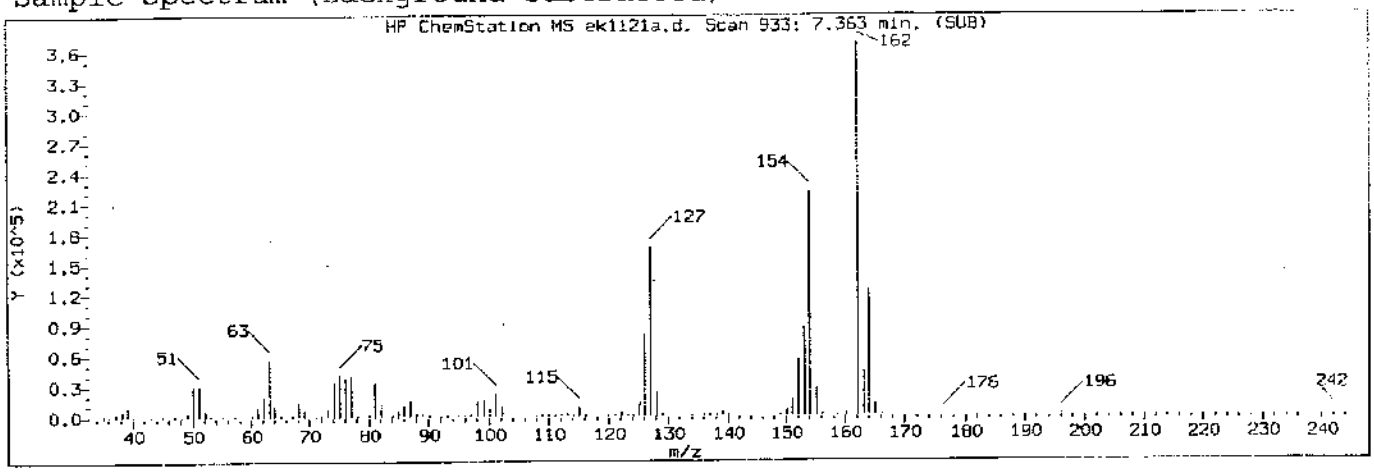
Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number : 63
Compound Name : Caprolactam
Scan Number : 828
Retention Time (minutes): 6.734
Quant Ion : 113
Area : 137260
Concentration (ng/ul) : 85.0152
Integration start scan : 823 Integration stop scan: 848
Y at integration start : 0 Y at integration end: 35

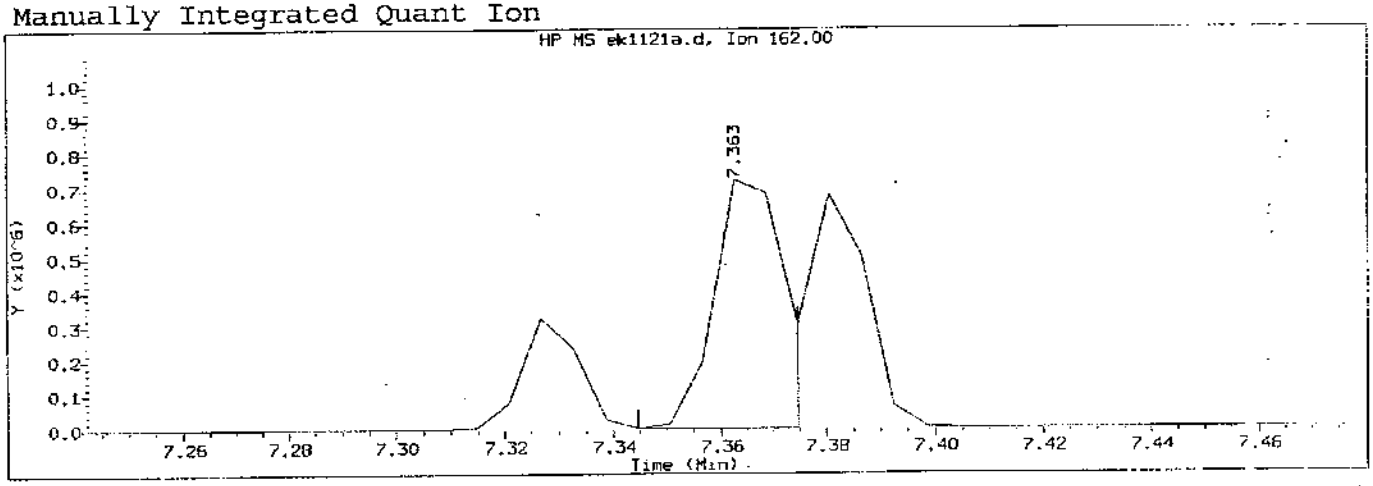
PCH09 6=16

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number	:	84
Compound Name	:	2-Chloronaphthalene
Scan Number	:	933
Retention Time (minutes)	:	7.363
Quant Ion	:	162
Area (flag)	:	685313 M
Concentration (ng/ul)	:	30.0000
Integration start scan	:	929 Integration stop scan: 934
Y at integration start	:	162 Y at integration end: 139

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: msw2107 11/30/11

GC/MS audit/management approval: Matthew E. Barton

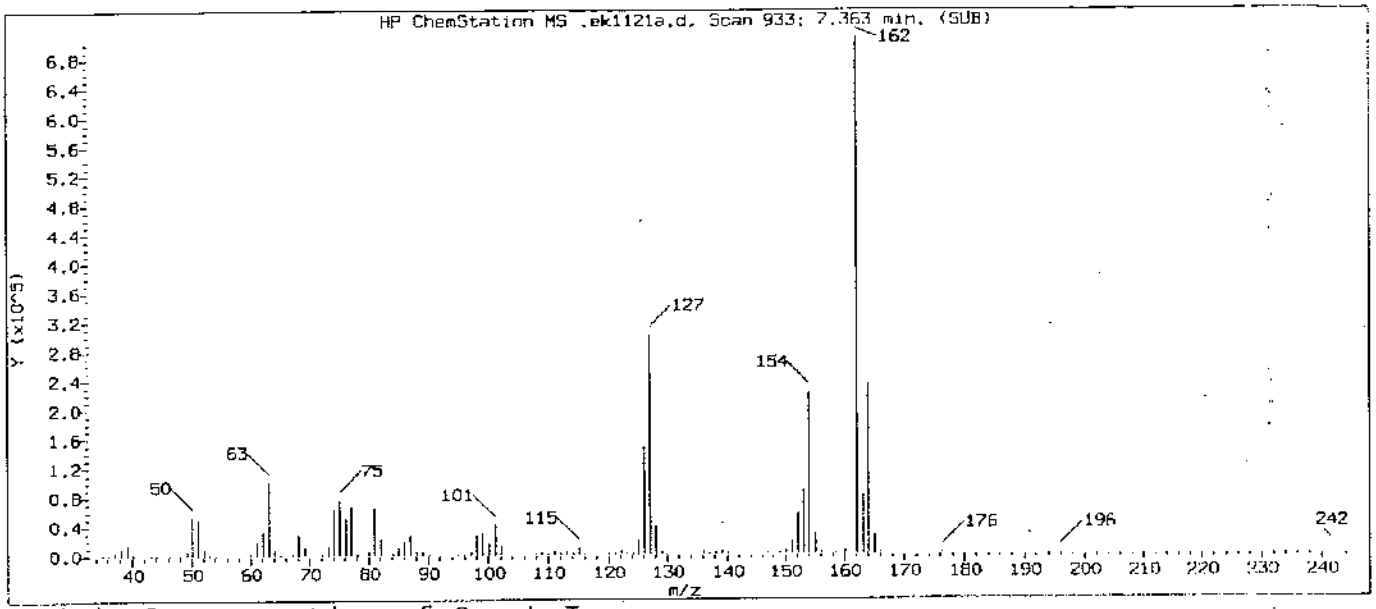
PCH09 0611

NOV 25 2011

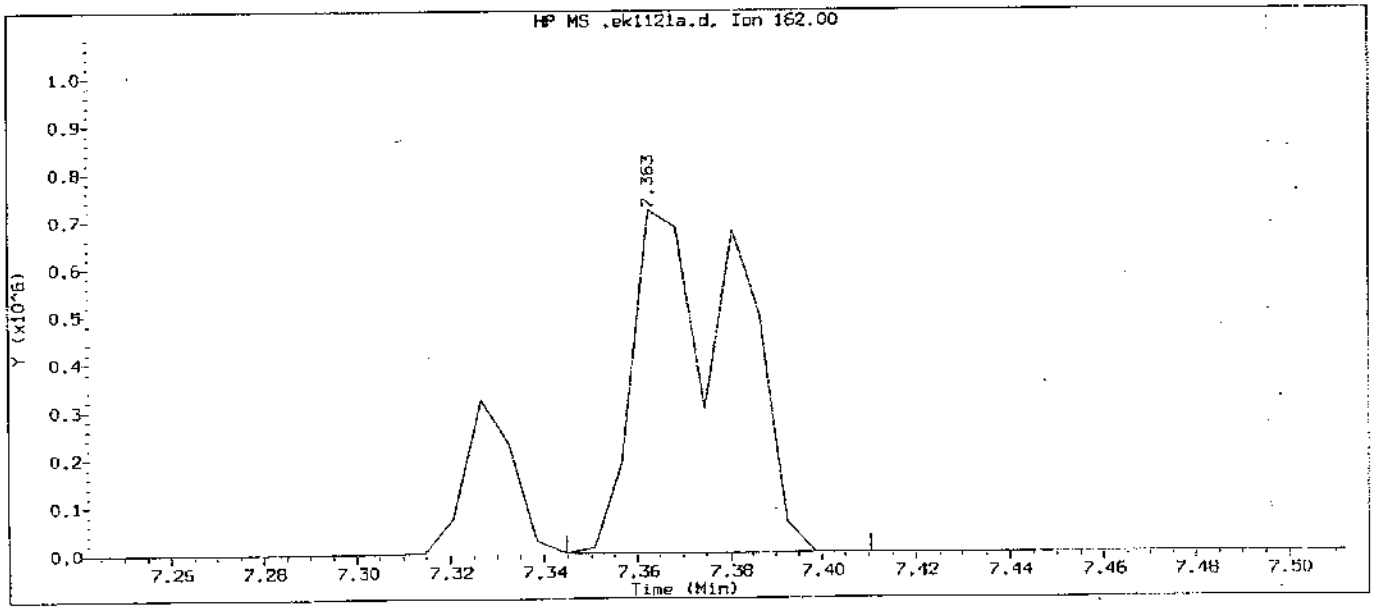
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:01
Date, time and analyst ID of latest file update: 23-Nov-2011 08:01 msw02109

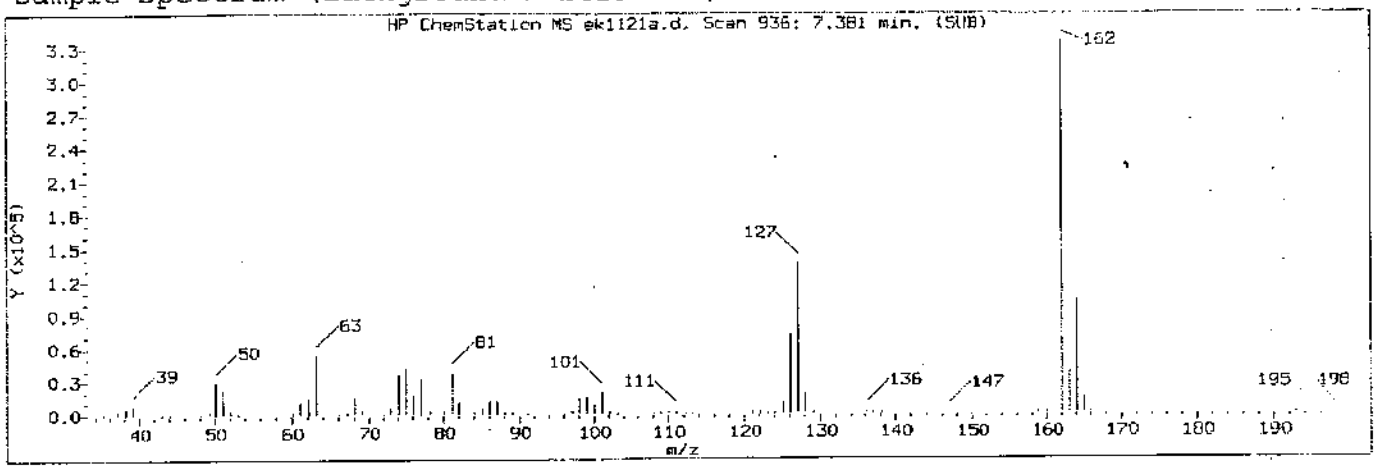
Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number	: 84		
Compound Name	: 2-Chloronaphthalene		
Scan Number	: 933		
Retention Time (minutes)	: 7.363		
Quant Ion	: 162		
Area	: 1132771		
Concentration (ng/ul)	: 27.7754		
Integration start scan	: 929	Integration stop scan:	940
Y at integration start	: 162	Y at integration end:	110

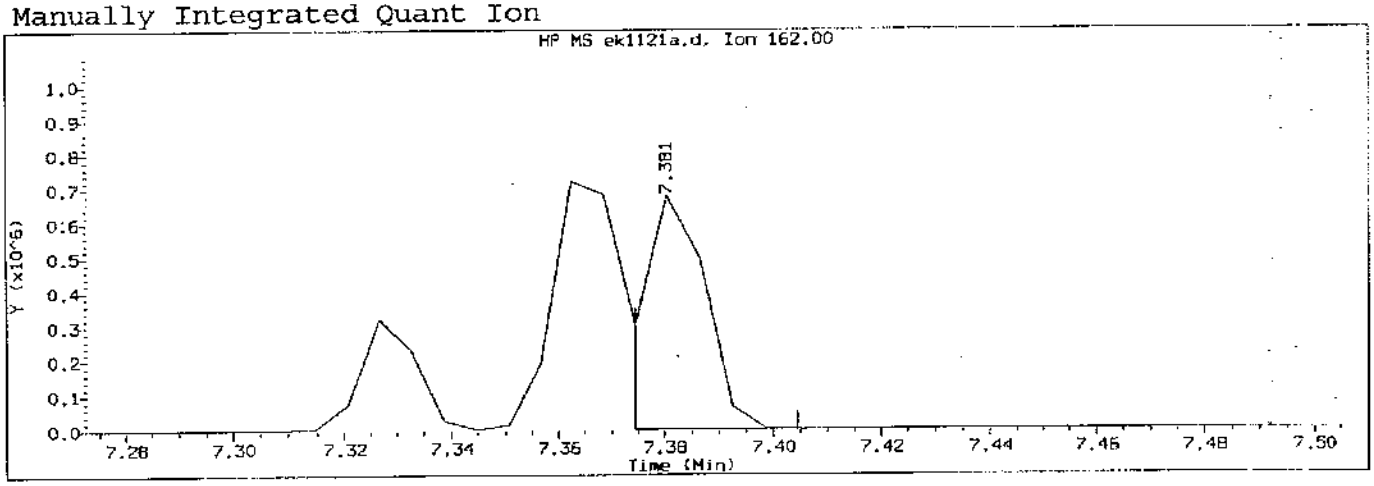
PCN89 0612

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number	:	85
Compound Name	:	1-Chloronaphthalene
Scan Number	:	936
Retention Time (minutes)	:	7.381
Quant Ion	:	162
Area (flag)	:	555261 M
Concentration (ng/ul)	:	30.0000
Integration start scan	:	934 Integration stop scan: 939
Y at integration start	:	137 Y at integration end: 137

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: mgr 2M 11/23/11

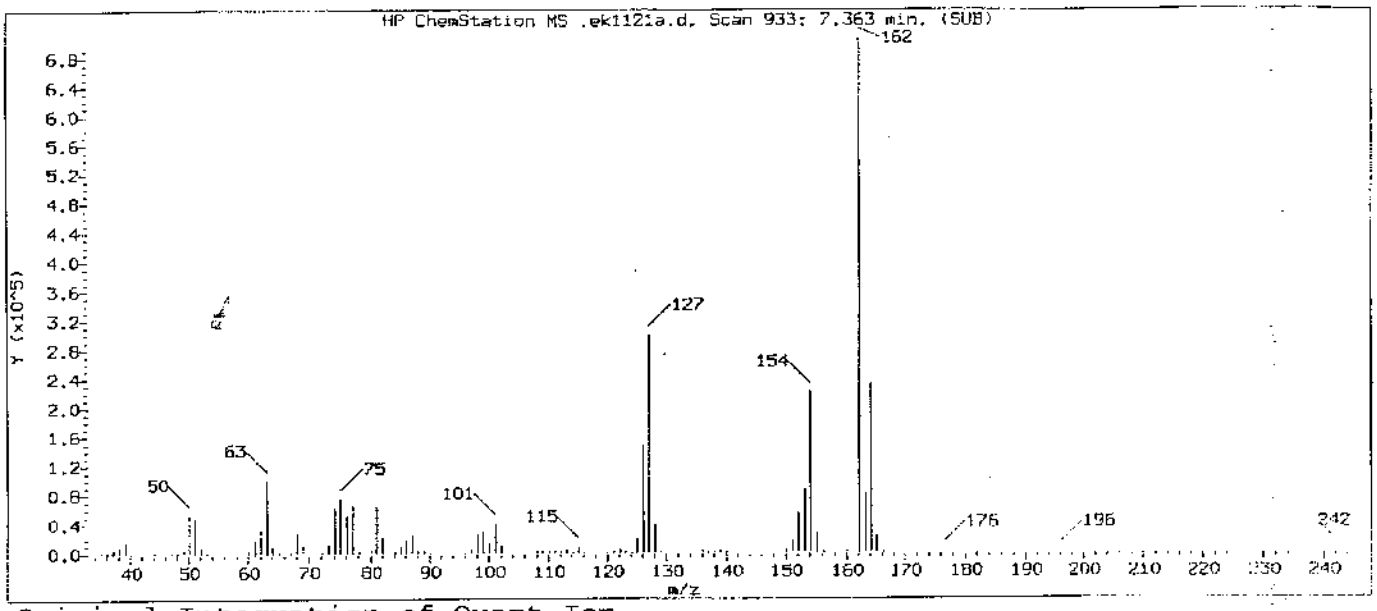
GC/MS audit/management approval: PCH09 8613

NOV 25 2011

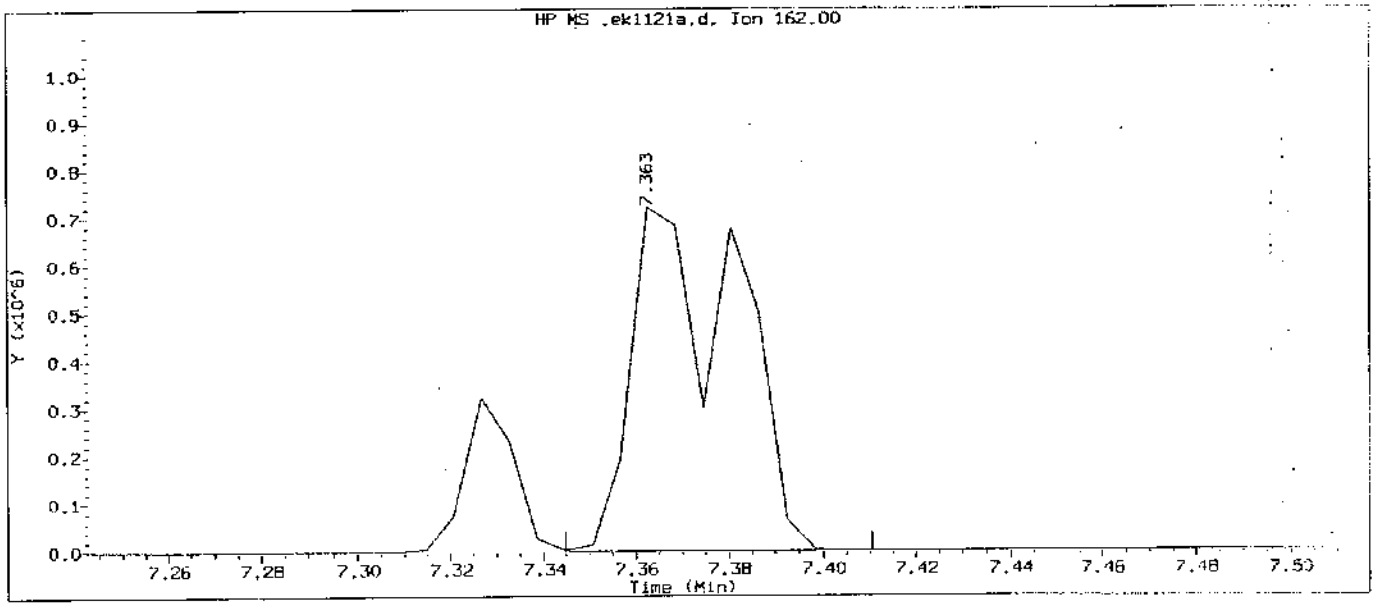
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:01
Date, time and analyst ID of latest file update: 23-Nov-2011 08:01 msw02109

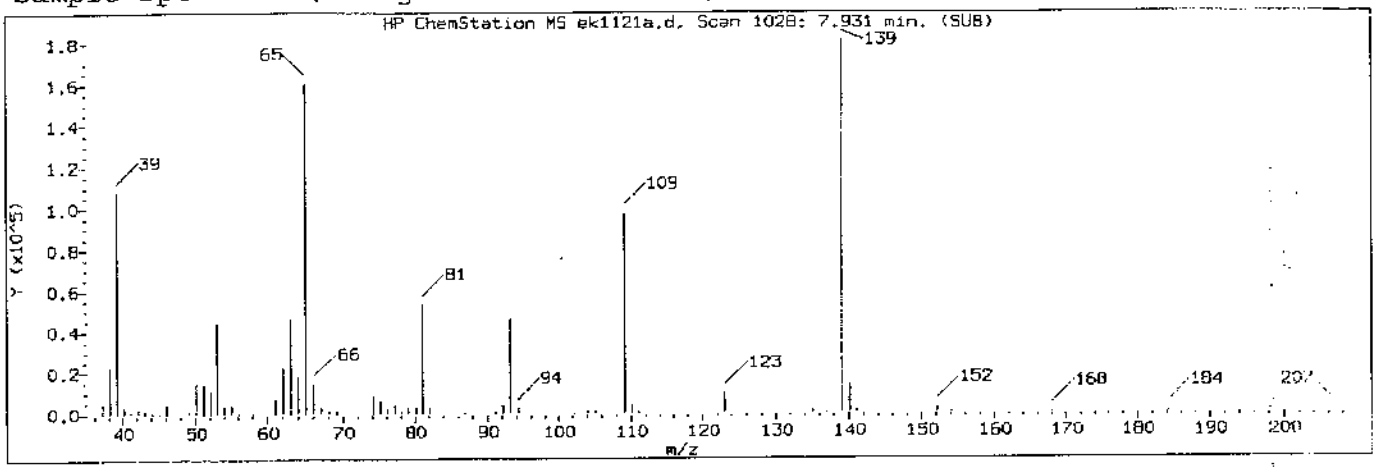
Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number	: 85
Compound Name	: 1-Chloronaphthalene
Scan Number	: 933
Retention Time (minutes)	: 7.363
Quant Ion	: 162
Area	: 1132605
Concentration (ng/ul)	: 49.9002
Integration start scan	: 929 Integration stop scan: 940
Y at integration start	: 209 Y at integration end: 147

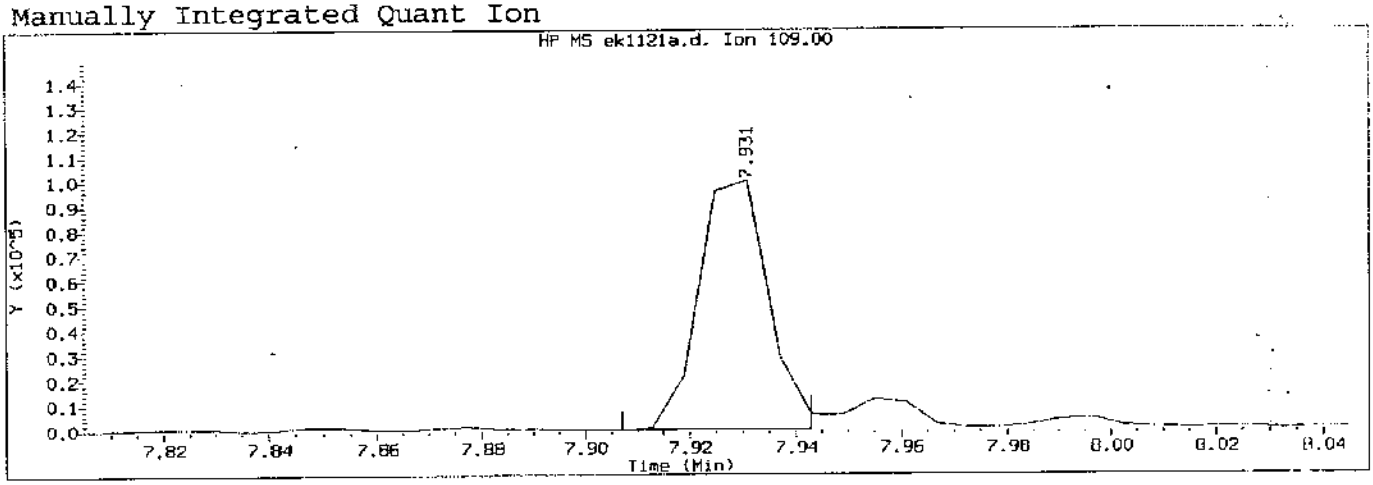
PCH89 0614

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number	:	103
Compound Name	:	4-Nitrophenol
Scan Number	:	1028
Retention Time (minutes)	:	7.931
Quant Ion	:	109
Area (flag)	:	90944 M
Concentration (ng/ul)	:	30.0000
Integration start scan	:	1023 Integration stop scan: 1029
Y at integration start	:	-29 Y at integration end: -29

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: MEB 2109 11/23/11

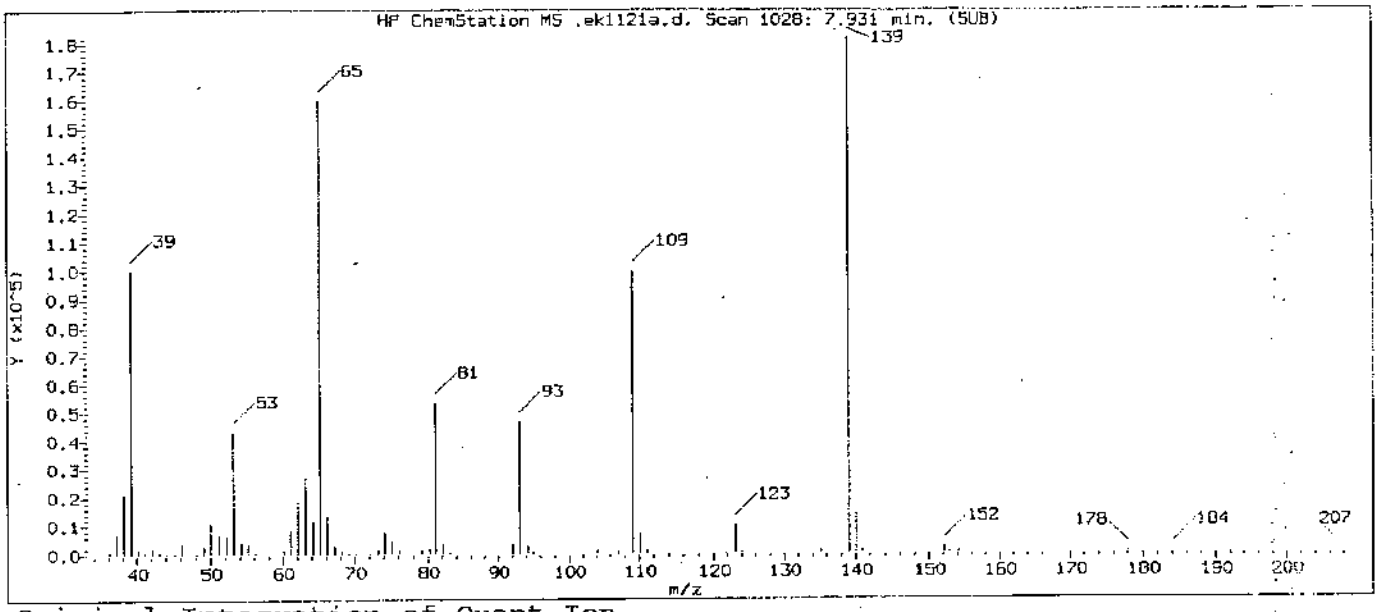
GC/MS audit/management approval: _____ PCH09 8615

NOV 25 2011

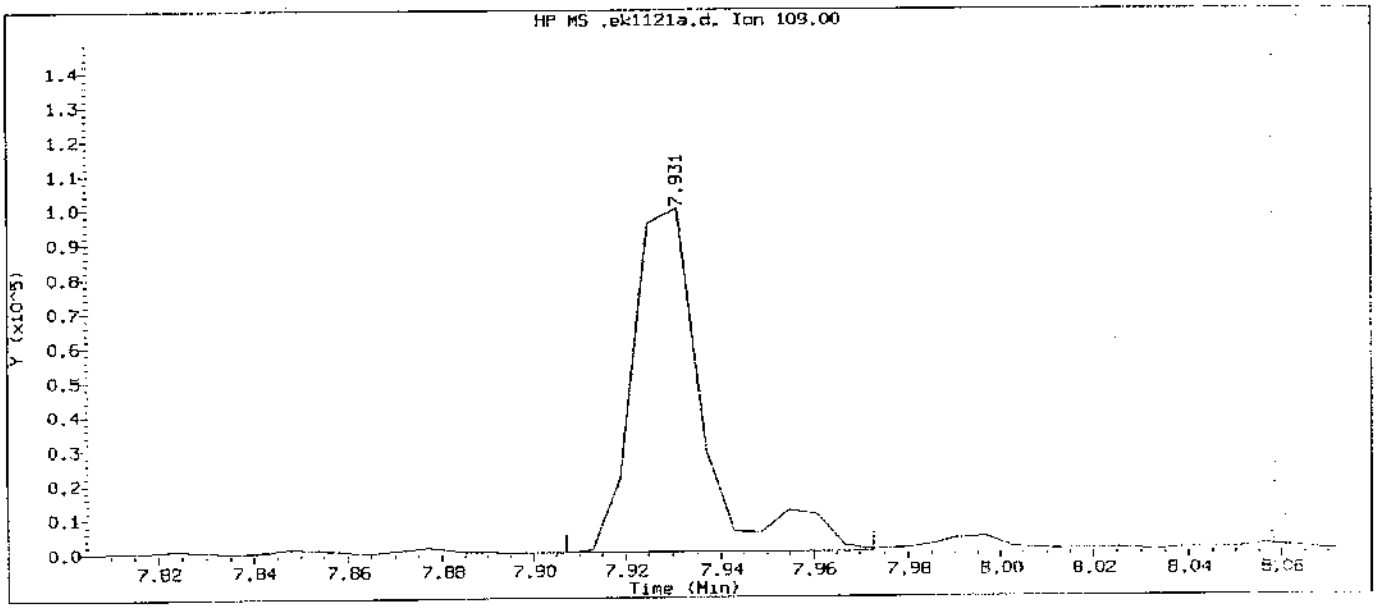
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:01
Date, time and analyst ID of latest file update: 23-Nov-2011 08:01 msw02109

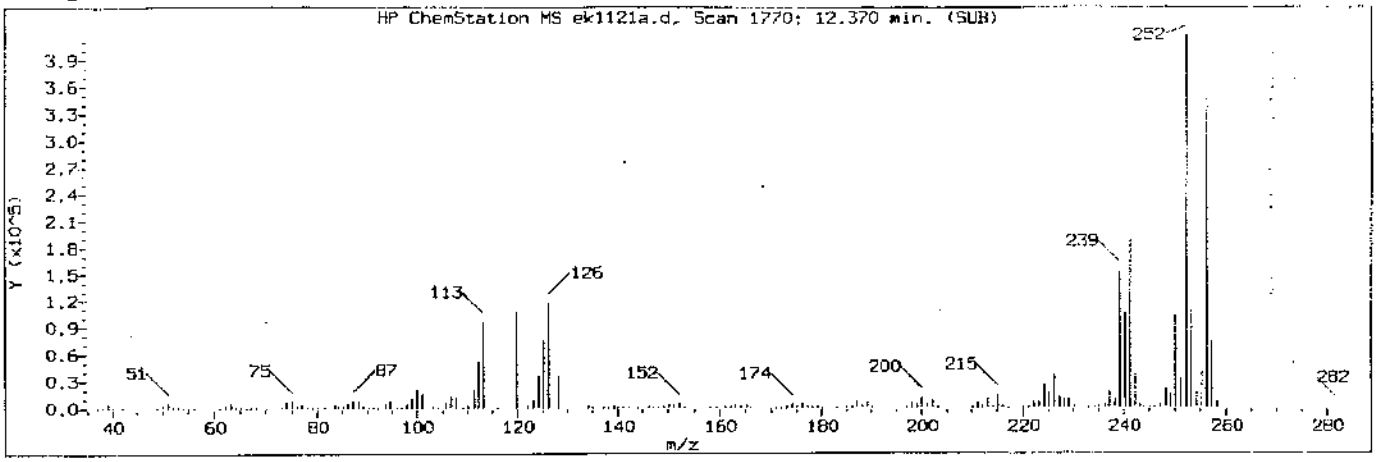
Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number : 103
Compound Name : 4-Nitrophenol
Scan Number : 1028
Retention Time (minutes): 7.931
Quant Ion : 109
Area : 101792
Concentration (ng/ul) : 92.4464
Integration start scan : 1023 Integration stop scan: 1034
Y at integration start : 0 Y at integration end: 0

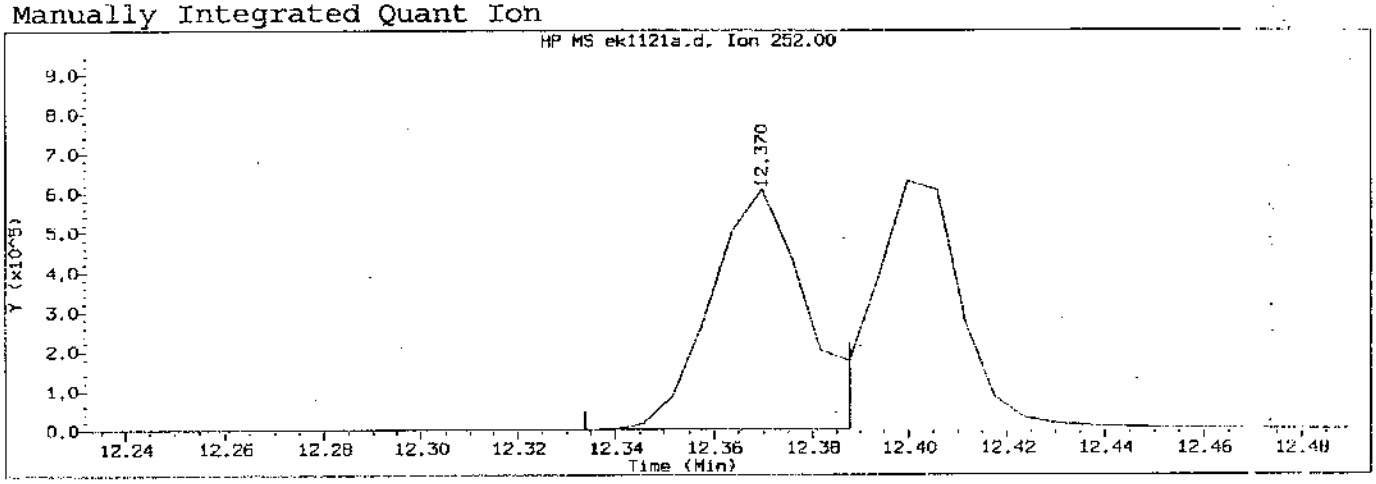
PCH09 0616

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1770
Retention Time (minutes): 12.370
Quant Ion : 252
Area (flag) : 821618 M
Concentration (ng/ul) : 30.0000
Integration start scan : 1763 Integration stop scan: 1772
Y at integration start : 0 Y at integration end: 333

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MSW 11/23/11

GC/MS audit/management approval: [signature]

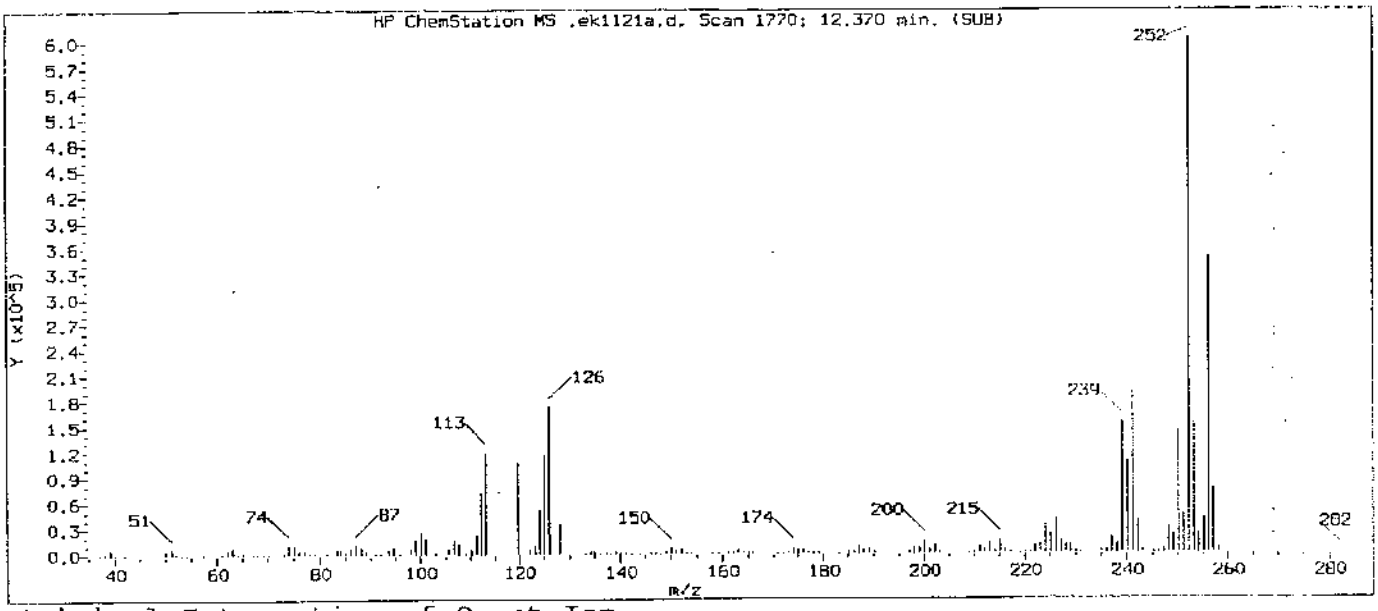
PCH09 8617

NOV 25 2011

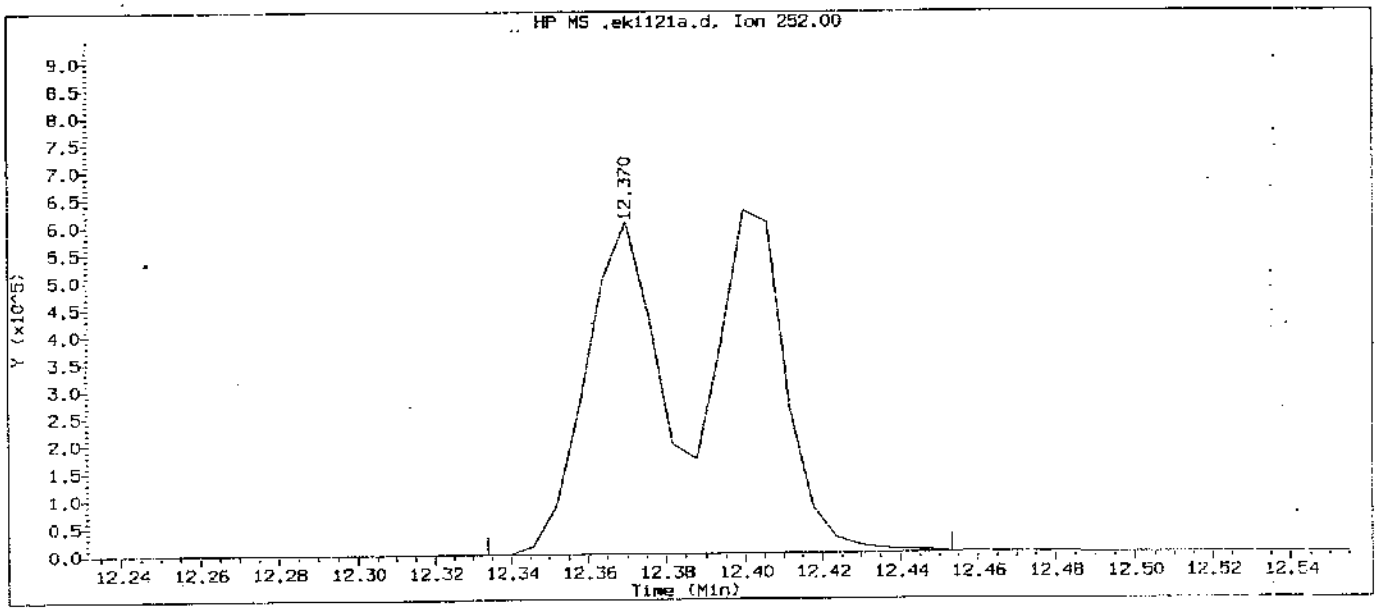
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:01
Date, time and analyst ID of latest file update: 23-Nov-2011 08:01 msw02109

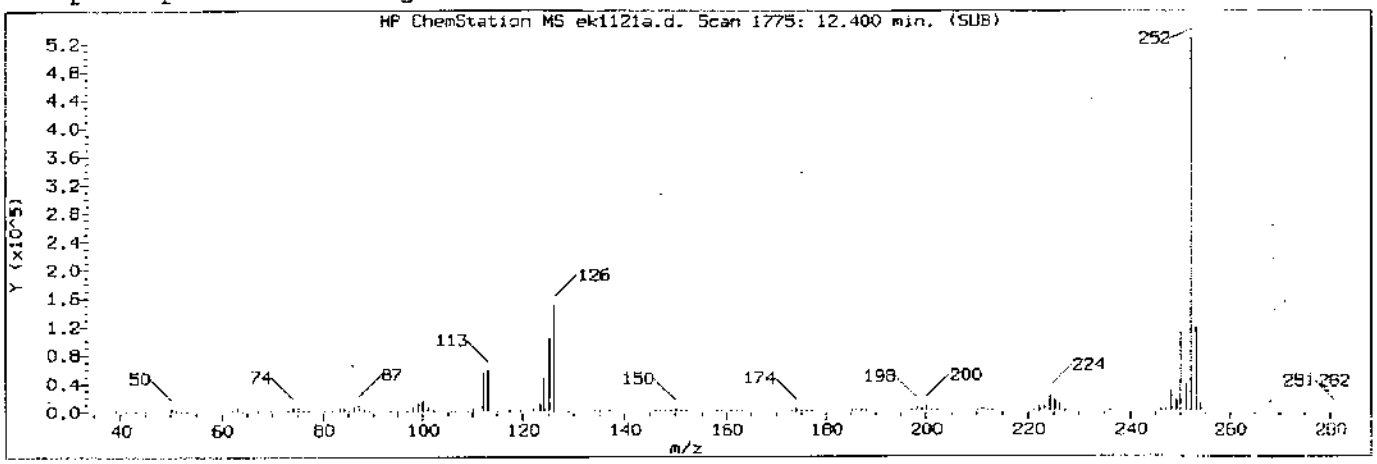
Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1770
Retention Time (minutes): 12.370
Quant Ion : 252
Area : 1550784
Concentration (ng/ul) : 73.9544
Integration start scan : 1763 Integration stop scan: 1783
Y at integration start : 0 Y at integration end: 742

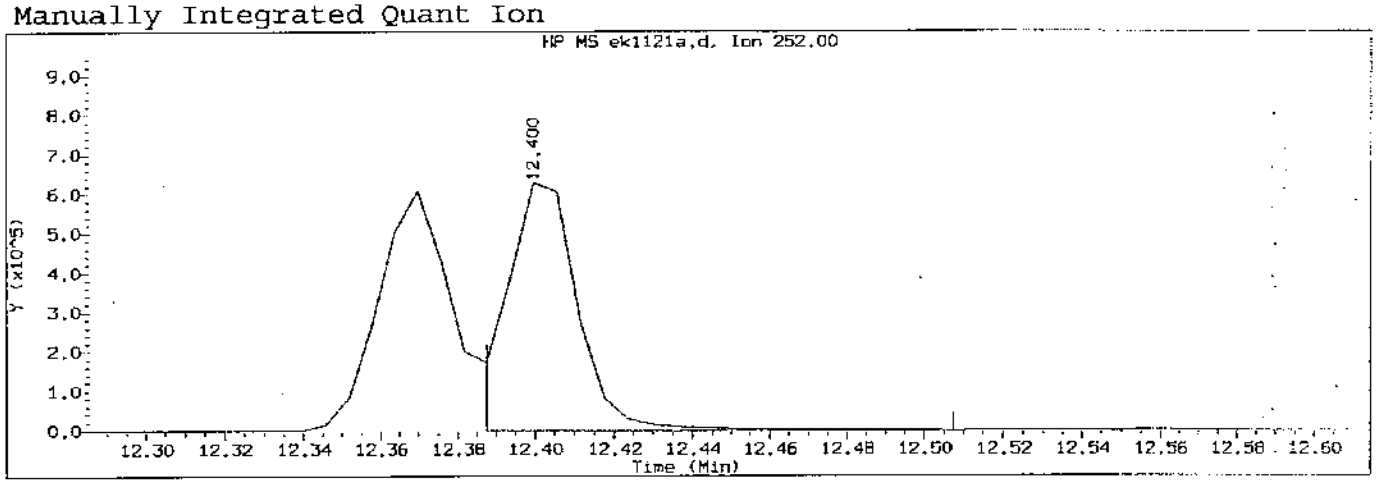
PCN89 8618

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number : 173
Compound Name : Benzo(k)fluoranthene
Scan Number : 1775
Retention Time (minutes): 12.400
Quant Ion : 252
Area (flag) : 799910 M
Concentration (ng/ul) : 30.0000
Integration start scan : 1772 Integration stop scan: 1792
Y at integration start : 156 Y at integration end: 156

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Jennifer Rhyne

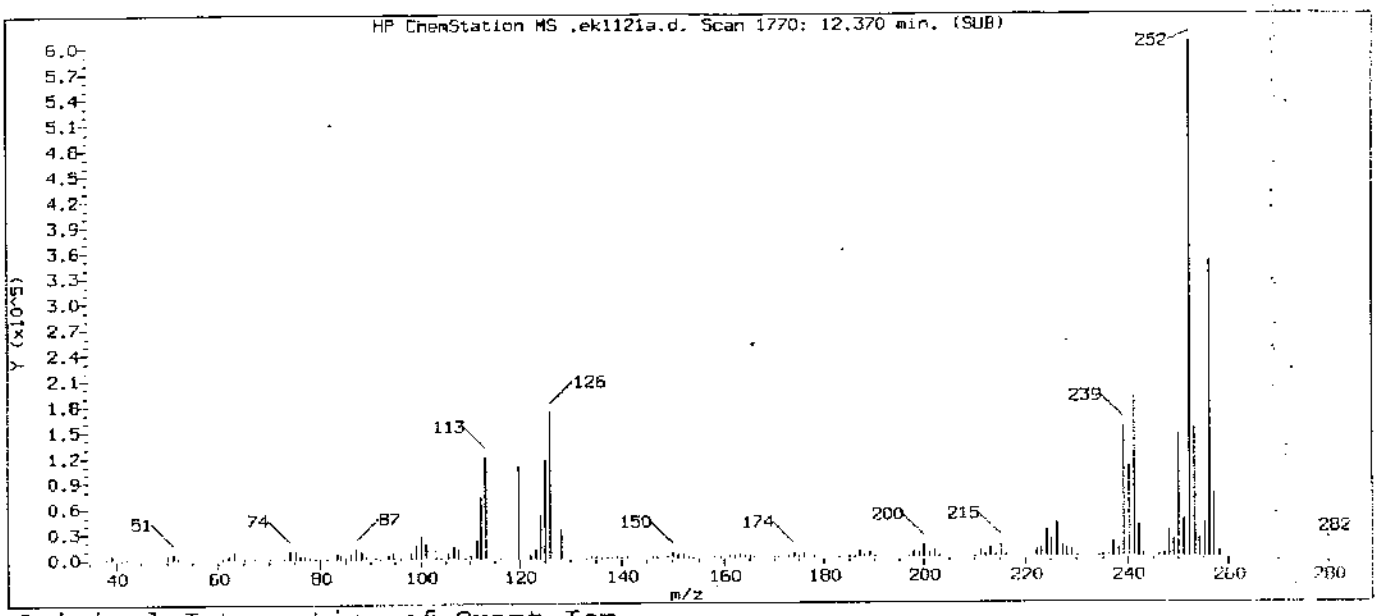
GC/MS audit/management approval: Matthew E. Barton PCH09 0619

NOV 25 2011

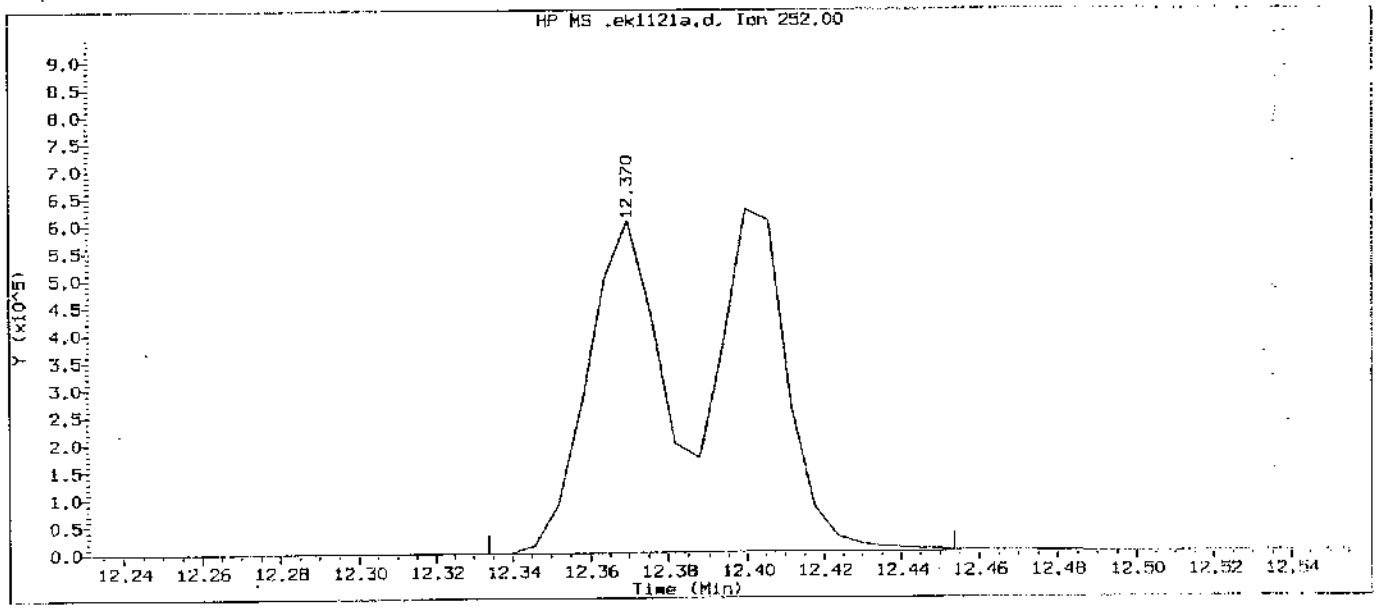
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 5: 08:25

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1121a.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 21:56 Analyst ID: jrr02820

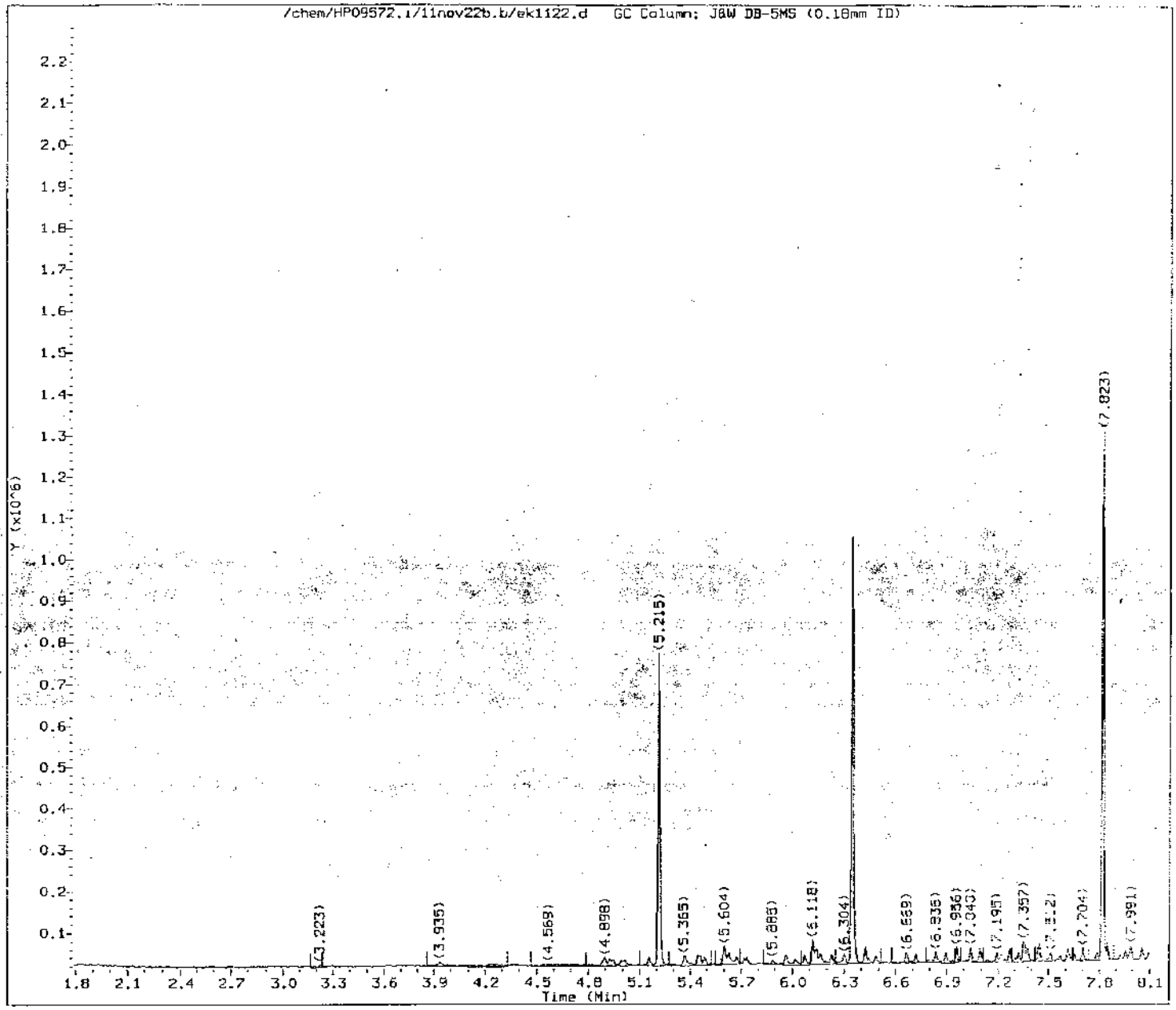
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:01
Date, time and analyst ID of latest file update: 23-Nov-2011 08:01 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3191

Compound Number	: 173
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1770
Retention Time (minutes)	: 12.370
Quant Ion	: 252
Area	: 1550784
Concentration (ng/ul)	: 65.2037
Integration start scan	: 1763 Integration stop scan: 1783
Y at integration start	: 0 Y at integration end: 742

PCH09 8628

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1121a.d, generated on 11/23/2011 at 08:25



Quant Report

Target Revision 3.5

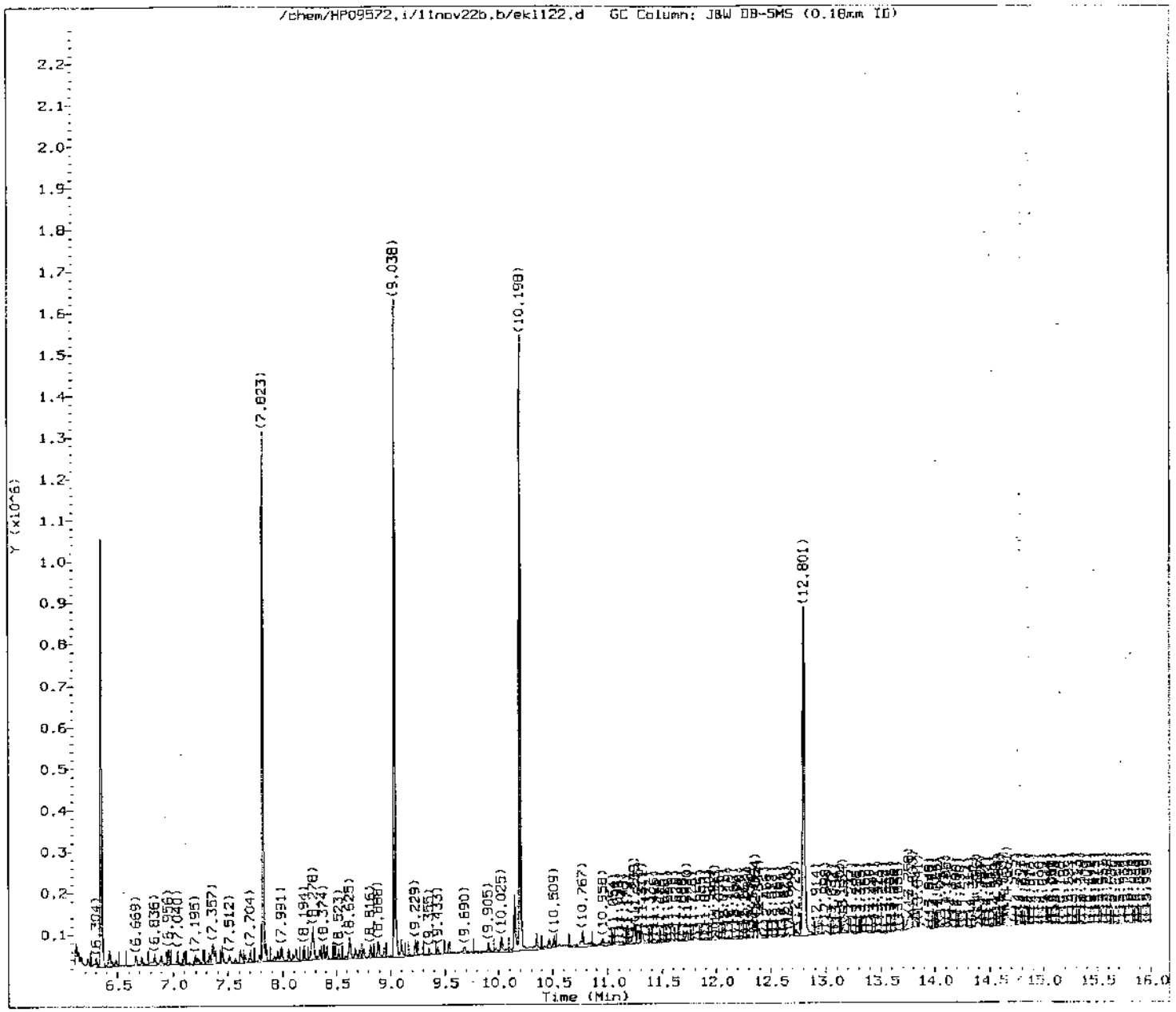
Data File: /chem/HP09572.i/11nov22b.b/ek1122.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

MSW107 11/28/11

PCH09=0621



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1122.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

PCH09 8622

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1122.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2)	N-Nitrosodimethylamine	(1)	2.798	74	395	0.0928
3)	Pyridine	(1)	2.619	79	372	0.0457
5)	2-Picoline	(1)	3.349	93	131	0.0167
13)	Aniline	(1)	4.898	93	215	0.0161
16)	Phenol	(1)	4.898	94	5280	0.4561
18)	bis(2-Chloroethyl)ether	(1)	4.994	93	4182	0.4978
19)	2-Chlorophenol	(1)	5.012	128	3829	0.5183
20)	1,3-Dichlorobenzene	(1)	5.155	146	3618	0.5151
21)	1,4-Dichlorobenzene-d4	(1)	5.215	152	86607	20.0000
22)	1,4-Dichlorobenzene	(1)	5.233	146	3684	0.5073
24)	Benzyl alcohol	(1)	5.377	108	2955	0.5240
25)	1,2-Dichlorobenzene	(1)	5.365	146	3583	0.5218
26)	2-Methylphenol	(1)	5.460	108	3681	0.4992
27)	2,2'-oxybis(1-Chloropropane)	(1)	5.490	45	8102	0.6053
28)	bis(2-Chloroisopropyl)ether	(1)	5.490	45	8102	0.6053
30)	Acetophenone	(1)	5.598	105	6181	0.5648
31)	N-Nitroso-di-n-propylamine	(1)	5.604	70	3209	0.4859
32)	N-Nitrosomorpholine	(1)	5.215	56	3354	0.5714
33)	4-Methylphenol	(1)	5.604	108	4420	0.4927
34)	o-Toluidine	(1)	5.628	106	5819	0.4596
37)	Hexachloroethane	(1)	5.676	117	1603	0.5714
39)	Nitrobenzene	(2)	5.736	77	4432	0.4998
40)	N-Nitrosopiperidine	(2)	5.885	114	1954	0.4825
41)	Isophorone	(2)	5.963	82	8841	0.5301
42)	2-Nitrophenol	(2)	6.023	139	1542	0.3916
44)	2,4-Dimethylphenol	(2)	6.071	107	3943	0.4969
45)	O,O,O-triethylphosphorothioate	(2)	6.142	198	1762	0.5241
46)	bis(2-Chloroethoxy)methane	(2)	6.160	93	5076	0.4909
47)	Benzoic acid	(2)	6.118	105	21679	2.9600
49)	2,4-Dichlorophenol	(2)	6.226	162	2633	0.4515
50)	1,2,4-Trichlorobenzene	(2)	6.304	180	2826	0.4660
52)	Naphthalene-d8	(2)	6.346	136	385894	20.0000
53)	Naphthalene	(2)	6.364	128	11127	0.5054
56)	4-Chloroaniline	(2)	6.423	127	4050	0.4188
57)	2,6-Dichlorophenol	(2)	6.423	162	2870	0.4947
58)	Hexachloropropene	(2)	6.447	213	900	0.3004
60)	Hexachlorobutadiene	(2)	6.483	225	1344	0.5187
63)	Caprolactam	(2)	5.215	113	3394	1.0401
64)	N-Nitrosodi-n-butylamine	(2)	6.717	84	3686	0.4437
68)	4-Chloro-3-methylphenol	(2)	6.836	107	3947	0.5309
69)	Safrole	(2)	6.896	162	2709	0.4741
70)	2-Methylnaphthalene	(2)	6.956	142	7427	0.5066
71)	1-Methylnaphthalene	(2)	7.040	142	6741	0.4938

M = Compound was manually integrated. A = User selected an alternate hit

PCH89 0623

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1122.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
72)	Hexachlorocyclopentadiene	(3)	7.093	237	784	0.3029
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.093	216	2793	0.5139
74)	cis-Isosafrole	(3)	7.141	162	527	0.0594
75)	2,4,6-Trichlorophenol	(3)	7.195	196	2055	0.4861
77)	2,4,5-Trichlorophenol	(3)	7.219	196	2394	0.5095
79)	trans-Isosafrole	(3)	7.327	162	3308	0.5031
80)	Isosafrole	(3)	7.327	162	3308	0.5653
83)	1,1'-Biphenyl	(3)	7.351	154	8745	0.4947
84)	2-Chloronaphthalene	(3)	7.363	162	6781	0.3980
85)	1-Chloronaphthalene	(3)	7.381	162	7597	0.5503
88)	Diphenyl ether	(3)	7.440	170	4667	0.5059
89)	2-Nitroaniline	(3)	7.452	138	1981	0.3870
90)	1,4-Naphthoquinone	(3)	7.512	158	2691	0.4371
91)	1,4-Dinitrobenzene	(3)	7.626	168	1179	0.4559
92)	Dimethylphthalate	(3)	7.614	163	8537	0.5348
93)	1,3-Dinitrobenzene	(3)	7.626	168	1179	0.3889
94)	2,6-Dinitrotoluene	(3)	7.656	165	1319	0.3391
95)	Acenaphthylene	(3)	7.704	152	9655	0.4771
97)	3-Nitroaniline	(3)	7.787	138	2063	0.4574
98)	Acenaphthene-d10	(3)	7.823	164	243182	20.0000
99)	Acenaphthene	(3)	7.847	153	6998	0.5037
100)	2,4-Dinitrophenol	(3)	8.266	184	799	0.3545
101)	Pentachlorobenzene	(3)	7.955	250	2064	0.4765
103)	4-Nitrophenol	(3)	7.925	109	1300	0.5749
104)	Dibenzofuran	(3)	7.991	168	9876	0.5017
105)	2,4-Dinitrotoluene	(3)	7.985	165	1633	0.3162
106)	1-Naphthylamine	(3)	8.057	143	7056	0.4337
107)	2,3,4,6-Tetrachlorophenol	(3)	8.093	232	1548	0.4852
108)	2-Naphthylamine	(3)	8.122	143	7282	0.4343
109)	Diethylphthalate	(3)	8.194	149	8135	0.5084
110)	Thionazin	(3)	8.260	107	1707	0.4992
111)	Fluorene	(3)	8.272	166	8244	0.4949
112)	4-Chlorophenyl-phenylether	(3)	8.284	204	4155	0.5557
113)	5-Nitro-o-toluidine	(3)	8.284	152	2355	0.4491
114)	4-Nitroaniline	(3)	8.284	138	2117	0.4229
115)	4,6-Dinitro-2-methylphenol	(4)	8.314	198	463	0.1423
117)	N-Nitrosodiphenylamine	(4)	8.374	169	7293	0.4799
118)	1,2-Diphenylhydrazine	(4)	8.410	77	10803	0.5120
120)	Tetraethyldithiopyrophosphate	(4)	8.523	97	1375	0.4731
122)	Diallate (peak 1)	(4)	8.619	86	4602	0.4230
123)	Phorate	(4)	8.625	75	5083	0.3715
124)	Phenacetin	(4)	8.631	108	4858	0.4762
125)	4-Bromophenyl-phenylether	(4)	8.679	248	1526	0.4134

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1122.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
126) Diallate (peak 2)	(4)	8.619	86	4602	0.6792
127) Hexachlorobenzene	(4)	8.721	284	1847	0.5173
128) Dimethoate	(4)	8.757	87	3481	0.4115
129) Diallate TRANS/CIS	(4)	23.156	86	9204	0.9340
131) Pentachlorophenol	(4)	8.882	266	1144	0.4192
133) 4-Aminobiphenyl	(4)	8.888	169	6517	0.4459
134) Pronamide	(4)	8.948	173	2759	0.3633
135) Phenanthrene-d10	(4)	9.038	188	443549	20.0000
136) Dinoseb	(4)	10.198	211	30713	6.9209
137) Phenanthrene	(4)	9.056	178	13274	0.5103
138) Anthracene	(4)	9.098	178	12148	0.4836
140) Carbazole	(4)	9.229	167	11205	0.4407
141) Methyl parathion	(4)	9.355	109	1534	0.2426
142) Di-n-butylphthalate	(4)	9.540	149	12459	0.4219
143) Parathion	(4)	9.355	109	1534	0.3809
146) Isodrin	(4)	9.911	193	1176	0.4215
147) Fluoranthene	(4)	10.025	202	11173	0.4642
152) Benzidine	(5)	10.144	184	43733	2.3333
154) Pyrene	(5)	10.210	202	14072	0.5074
158) p-Dimethylaminoazobenzene	(5)	10.467	225	1509	0.2830
159) Chlorobenzilate	(5)	10.509	139	2851	0.3372
160) 3,3'-Dimethylbenzidine	(5)	10.743	212	4047	0.2567
161) Butylbenzylphthalate	(5)	10.767	149	4630	0.3525
162) 2-Acetylaminofluorene	(5)	10.952	181	3619	0.3183
164) 3,3'-Dichlorobenzidine	(5)	11.221	252	2538	0.3222
166) Benzo(a)anthracene	(5)	11.239	228	9385	0.4536
167) Pyrene-d10	(5)	10.198	212	500702	20.0000
168) Chrysene	(5)	11.275	228	10855	0.4967
169) bis(2-Ethylhexyl)phthalate	(5)	11.311	149	5338	0.3044
189) 6-Methylchrysene	(5)	11.730	242	6085	0.3907
190) Dibenz(a,h)acridine	(6)	13.818	279	5453	0.4096
170) Di-n-octylphthalate	(6)	11.993	149	6515	0.2302
191) Dibenz(a,j)acridine	(6)	13.818	279	5453	0.3629
171) 7,12-Dimethylbenz[a]anthracene	(6)	12.358	256	3068	0.3194
172) Benzo(b)fluoranthene	(6)	12.364	252	7560	0.4143
194) Quinoline	(2)	6.669	129	7625	0.5034
173) Benzo(k)fluoranthene	(6)	12.394	252	8912M	0.4614
174) Benzo(a)pyrene	(6)	12.735	252	8292	0.4681
175) Perylene-d12	(6)	12.801	264	331672	20.0000
202) NDPA as diphenylamine	(4)	8.374	169	7293	0.4799
176) 3-Methylcholanthrene	(6)	13.159	268	2880	0.3073
177) Indeno(1,2,3-cd)pyrene	(6)	14.069	276	8112	0.4590
178) Dibenz(a,h)anthracene	(6)	14.105	278	7243	0.4715

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1122.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:19 Analyst ID: jrr02820

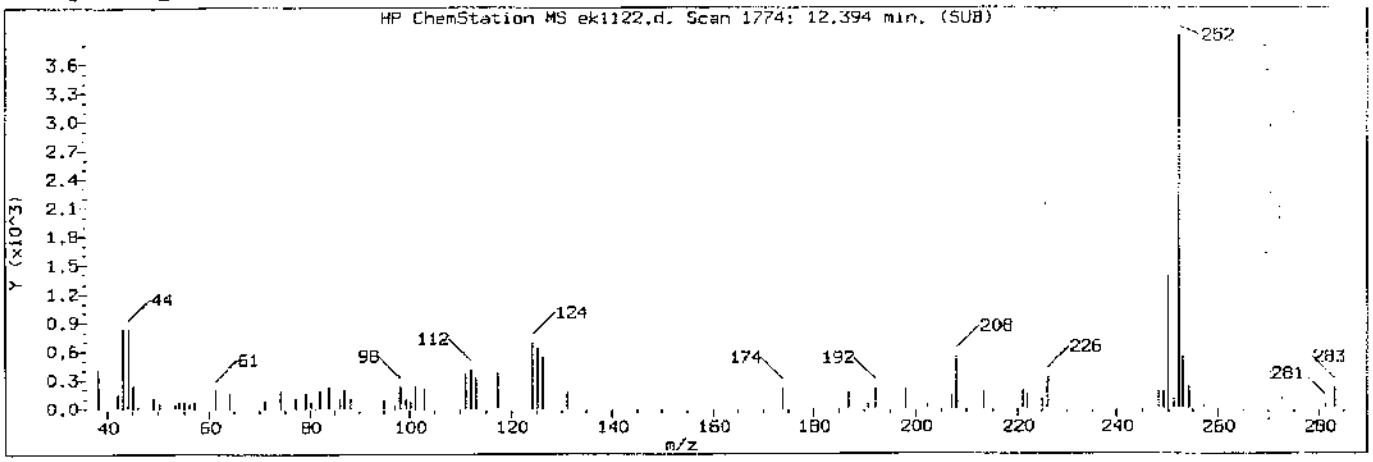
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

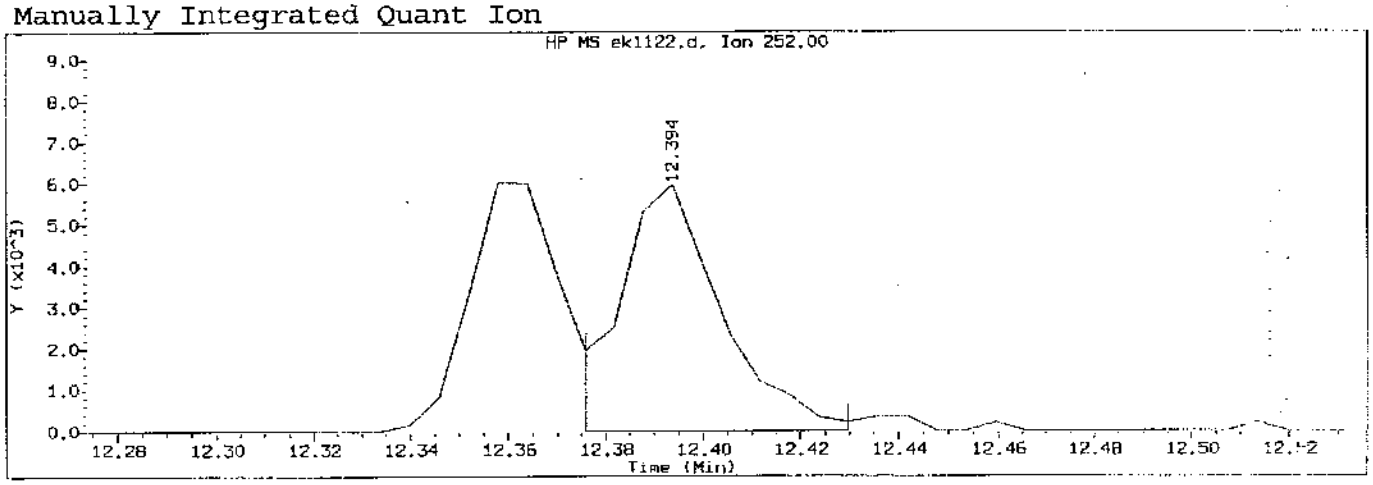
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
206)	Indene	(1)	5.448	115	5588	0.4777
179)	Benzo(g,h,i)perylene	(6)	14.392	276	7447	0.4853
9)	2-Fluorophenol	(1)	3.935	112	3368	0.4855
14)	Phenol-d5	(1)	4.886	99	4510	0.4480
15)	Phenol-d6	(1)	4.886	99	4510	0.4480
38)	Nitrobenzene-d5	(2)	5.718	82	4370	0.5027
78)	2-Fluorobiphenyl	(3)	7.273	172	7811	0.5177
119)	2,4,6-Tribromophenol	(3)	8.469	330	585	0.3995
156)	Terphenyl-d14	(5)	10.348	244	6520	0.4226

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1122.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1774
Retention Time (minutes)	:	12.394
Quant Ion	:	252
Area (flag)	:	8912 M
Concentration (ng/ul)	:	0.4614
Integration start scan	:	1770 Integration stop scan: 1779
Y at integration start	:	-6 Y at integration end: -6

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: MEB 11/23/11

GC/MS audit/management approval: Matthew E. Barton

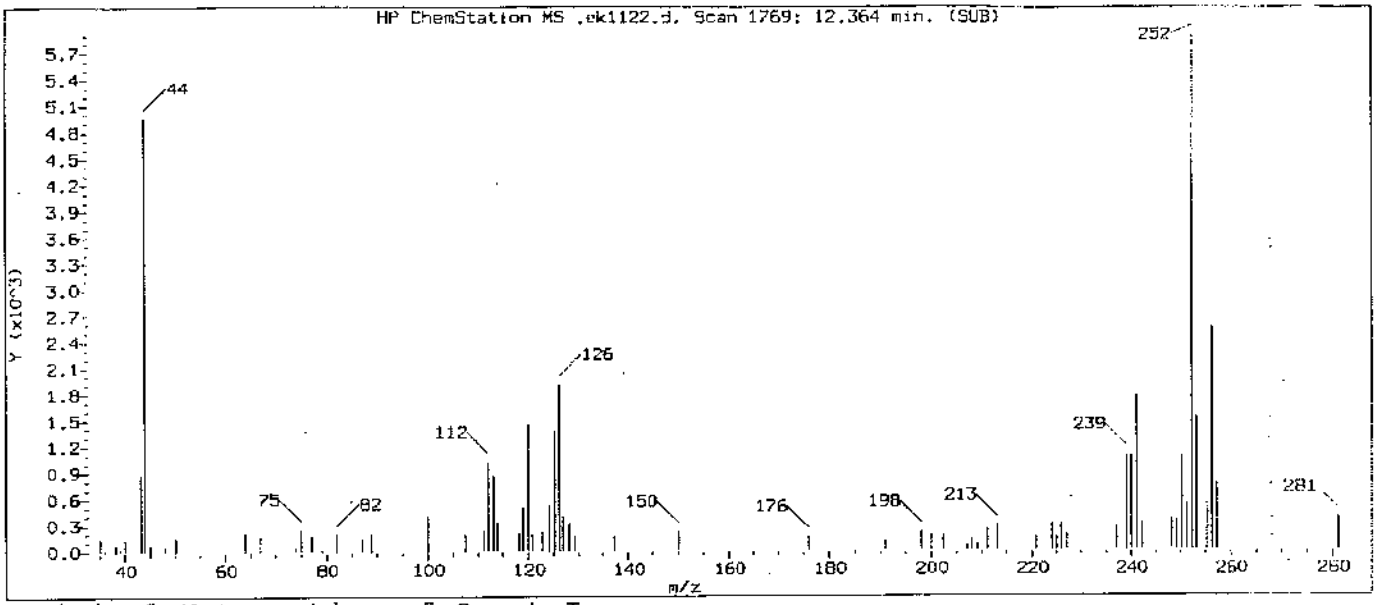
NOV 25 2011

PCH09 8627

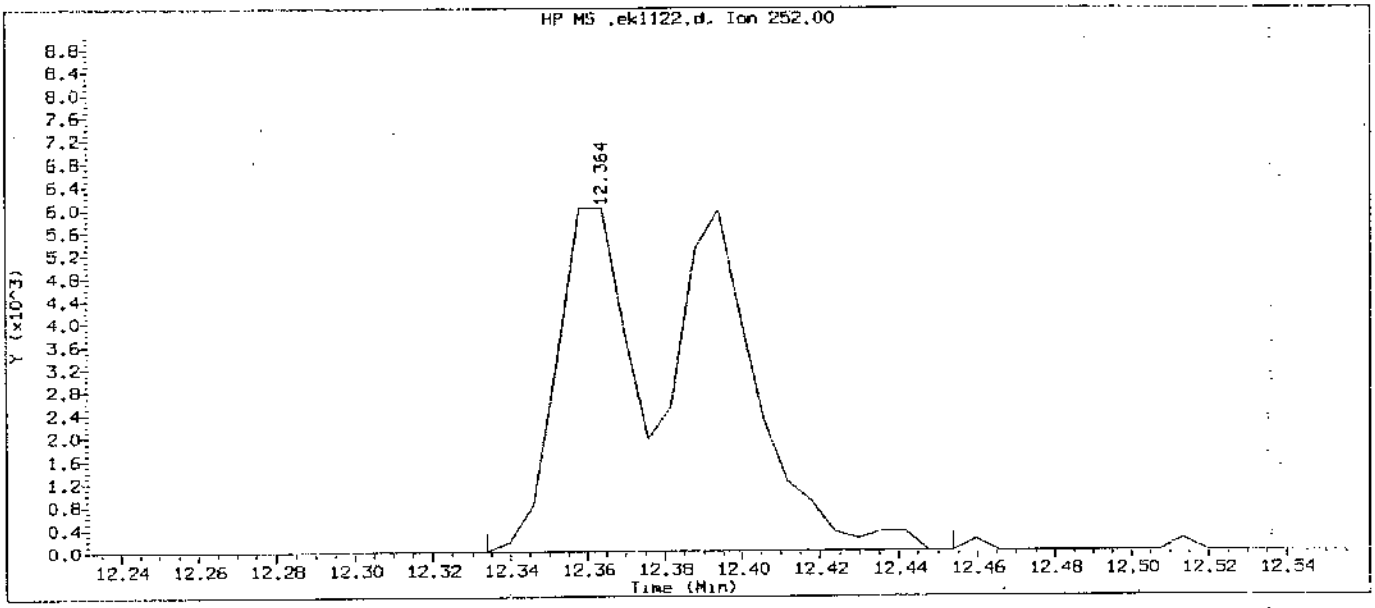
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1122.d, generated on 11/23/2011 at 08:25

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1122.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:19 Analyst ID: jrr02820

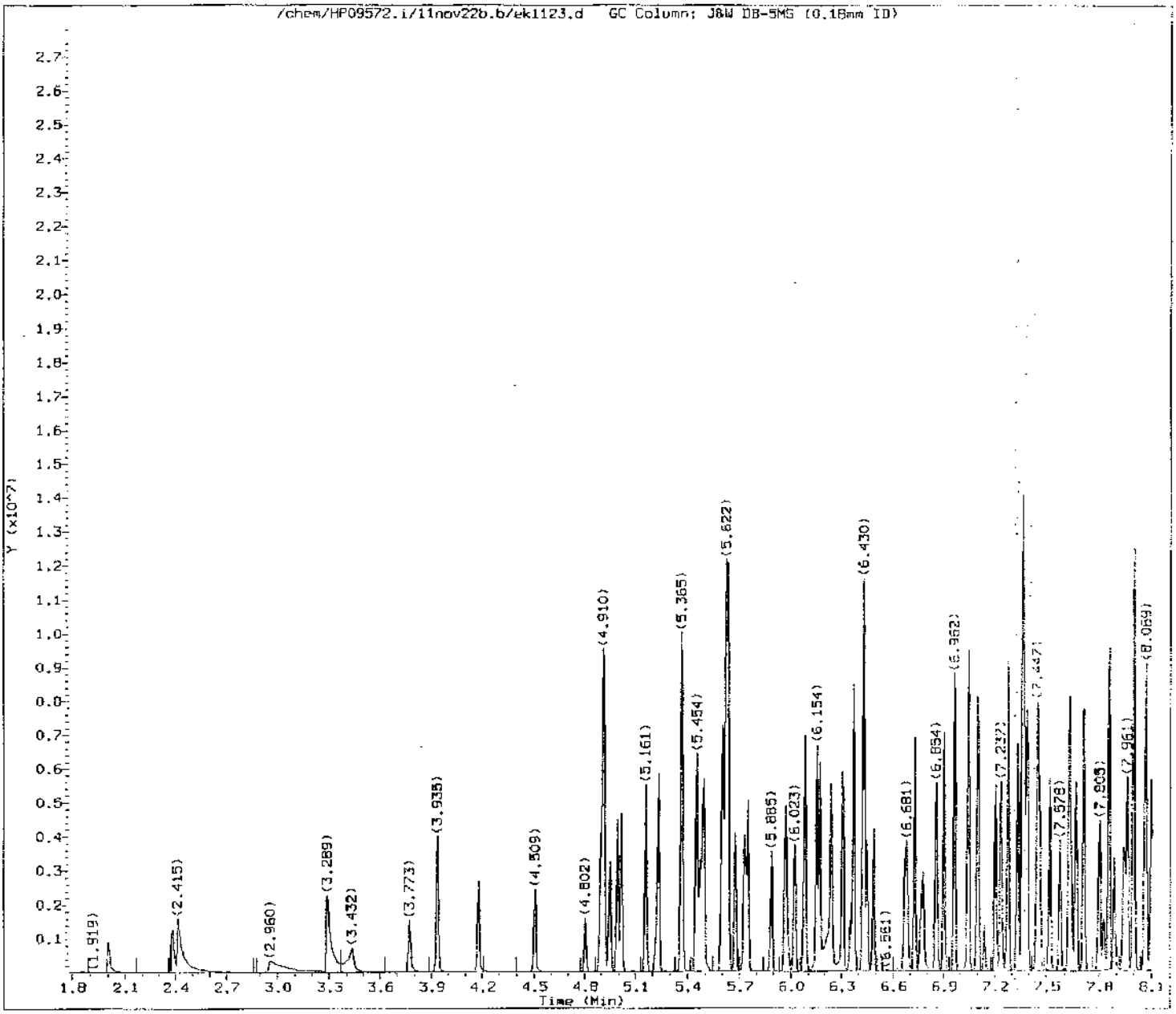
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:02
Date, time and analyst ID of latest file update: 23-Nov-2011 08:02 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1769
Retention Time (minutes)	:	12.364
Quant Ion	:	252
Area	:	16345
Concentration (ng/ul)	:	0.8806
Integration start scan	:	1763 Integration stop scan: 1783
Y at integration start	:	0 Y at integration end: 0

PCH69 8628

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1122.d, generated on 11/23/2011 at 08:25



Quant Report

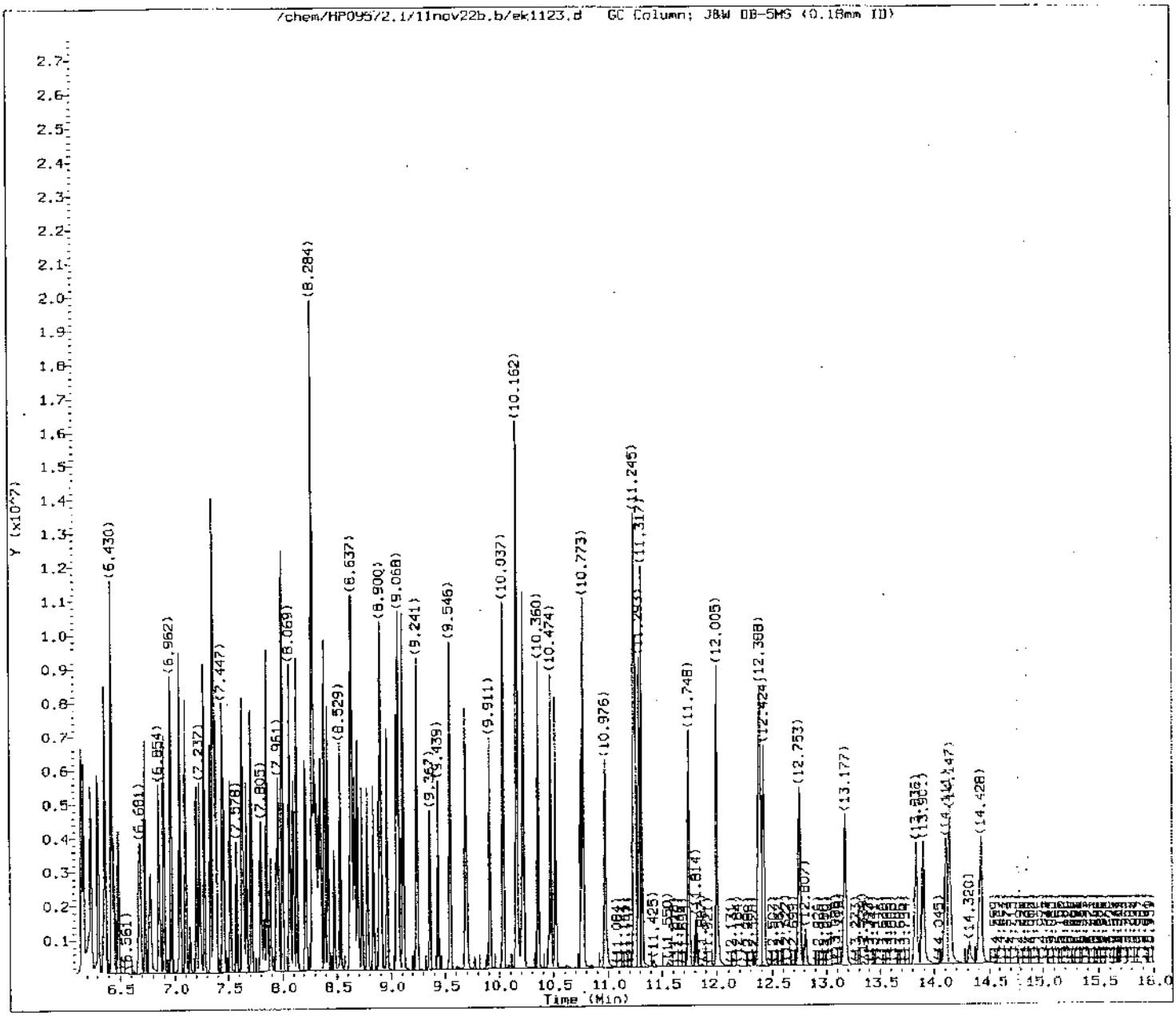
Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

PCN89 8629



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

PCH89 8638

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.003	88	395399	125.5494
2)	N-Nitrosodimethylamine	(1)	2.386	74	708311	124.4159
3)	Pyridine	(1)	2.415	79	1142704	114.2226
5)	2-Picoline	(1)	3.289	93	1212351	120.0496
6)	N-Nitrosomethylethylamine	(1)	3.432	88	590664	115.6225
7)	Methyl methanesulfonate	(1)	3.773	80	579272	116.9282
10)	N-Nitrosodiethylamine	(1)	4.180	102	593341	116.1469
11)	Ethyl methanesulfonate	(1)	4.509	109	573022	118.4109
13)	Aniline	(1)	4.916	93	1915671	115.5971
16)	Phenol	(1)	4.910	94	1688064	116.5191
18)	bis(2-Chloroethyl)ether	(1)	4.994	93	1231430	116.8347
19)	2-Chlorophenol	(1)	5.018	128	1092133	117.3494
20)	1,3-Dichlorobenzene	(1)	5.161	146	1033744	117.0722
21)	1,4-Dichlorobenzene-d4	(1)	5.215	152	111524	20.0000
22)	1,4-Dichlorobenzene	(1)	5.233	146	1057691	116.4468
24)	Benzyl alcohol	(1)	5.365	108	829900	117.0665
25)	1,2-Dichlorobenzene	(1)	5.371	146	997886	116.3161
26)	2-Methylphenol	(1)	5.472	108	1107134M	118.2697
27)	2,2'-oxybis(1-Chloropropane)	(1)	5.490	45	1929235	115.8230
28)	bis(2-Chloroisopropyl)ether	(1)	5.490	45	1929235	115.8230
29)	N-Nitrosopyrrolidine	(1)	5.598	100	681008	116.5831
30)	Acetophenone	(1)	5.604	105	1581153	115.9716
31)	N-Nitroso-di-n-propylamine	(1)	5.628	70	956096	116.0939
32)	N-Nitrosomorpholine	(1)	5.634	56	849071	116.0413
33)	4-Methylphenol	(1)	5.622	108	1285163 A	115.4573
34)	o-Toluidine	(1)	5.634	106	1831753	116.0453
37)	Hexachloroethane	(1)	5.676	117	410199	116.6879
39)	Nitrobenzene	(2)	5.748	77	1322903	116.2921
40)	N-Nitrosopiperidine	(2)	5.885	114	609177	116.7914
41)	Isophorone	(2)	5.969	82	2466619	115.7801
42)	2-Nitrophenol	(2)	6.029	139	616849	119.2335
44)	2,4-Dimethylphenol	(2)	6.083	107	1185620	116.3927
45)	O,O,O-triethylphosphorothioate	(2)	6.154	198	499667	116.0663
46)	bis(2-Chloroethoxy)methane	(2)	6.172	93	1912663M	129.1756
47)	Benzoic acid	(2)	6.220	105	1089762	116.1389
49)	2,4-Dichlorophenol	(2)	6.238	162	901637	118.4361
50)	1,2,4-Trichlorobenzene	(2)	6.304	180	927081	117.7563
52)	Naphthalene-d8	(2)	6.352	136	510297	20.0000
53)	Naphthalene	(2)	6.370	128	3194042	112.9412
56)	4-Chloroaniline	(2)	6.430	127	1441574	116.2516
57)	2,6-Dichlorophenol	(2)	6.430	162	879531	117.2575
58)	Hexachloropropene	(2)	6.447	213	488288	121.6041
60)	Hexachlorobutadiene	(2)	6.489	225	389933	116.8166

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
63)	Caprolactam	(2)	6.777	113	483459M	115.8822
64)	N-Nitrosodi-n-butylamine	(2)	6.729	84	914155	98.2782
68)	4-Chloro-3-methylphenol	(2)	6.854	107	1110386	116.3640
69)	Safrole	(2)	6.902	162	859174	116.7654
70)	2-Methylnaphthalene	(2)	6.962	142	2189850	115.2060
71)	1-Methylnaphthalene	(2)	7.046	142	2057647	115.9175
72)	Hexachlorocyclopentadiene	(3)	7.100	237	420275	122.7630
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.106	216	830900	119.1399
74)	cis-Isosafrole	(3)	7.141	162	158403	13.5047
75)	2,4,6-Trichlorophenol	(3)	7.207	196	640463	118.6013
77)	2,4,5-Trichlorophenol	(3)	7.237	196	740913	121.0017
79)	trans-Isosafrole	(3)	7.333	162	903492	106.5617
80)	Isosafrole	(3)	7.333	162	903492	119.7322
83)	1,1'-Biphenyl	(3)	7.363	154	2589777	116.5799
84)	2-Chloronaphthalene	(3)	7.375	162	2603980M	119.1190
85)	1-Chloronaphthalene	(3)	7.387	162	2155322M	120.3991
88)	Diphenyl ether	(3)	7.447	170	1408903	119.0772
89)	2-Nitroaniline	(3)	7.464	138	793022	119.9287
90)	1,4-Naphthoquinone	(3)	7.518	158	909377	117.0769
91)	1,4-Dinitrobenzene	(3)	7.578	168	420642	122.8609
92)	Dimethylphthalate	(3)	7.632	163	2386845	117.8040
93)	1,3-Dinitrobenzene	(3)	7.644	168	478442	121.0499
94)	2,6-Dinitrotoluene	(3)	7.668	165	611200	120.7930
95)	Acenaphthylene	(3)	7.716	152	3164901	120.6647
97)	3-Nitroaniline	(3)	7.805	138	704599	120.4312
98)	Acenaphthene-d10	(3)	7.829	164	314284	20.0000
99)	Acenaphthene	(3)	7.859	153	2087384	117.4771
100)	2,4-Dinitrophenol	(3)	7.889	184	399123	127.9447
101)	Pentachlorobenzene	(3)	7.961	250	658311	118.7853
103)	4-Nitrophenol	(3)	7.943	109	401983	128.1809
104)	Dibenzofuran	(3)	8.003	168	2913810	117.2056
105)	2,4-Dinitrotoluene	(3)	8.003	165	799289	119.8704
106)	1-Naphthylamine	(3)	8.069	143	2427715	117.6825
107)	2,3,4,6-Tetrachlorophenol	(3)	8.099	232	519280	122.9018
108)	2-Naphthylamine	(3)	8.134	143	2417930	115.6432
109)	Diethylphthalate	(3)	8.212	149	2382419	117.5591
110)	Thionazin	(3)	8.278	107	505032	117.0737
111)	Fluorene	(3)	8.284	166	2416700	114.7311
112)	4-Chlorophenyl-phenylether	(3)	8.290	204	1104168	117.0574
113)	5-Nitro-o-toluidine	(3)	8.302	152	809365	119.7145
114)	4-Nitroaniline	(3)	8.320	138	735811	116.7808
115)	4,6-Dinitro-2-methylphenol	(4)	8.338	198	502887	122.6792
117)	N-Nitrosodiphenylamine	(4)	8.392	169	2159865	117.6361

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
118)	1,2-Diphenylhydrazine	(4)	8.416	77	2989707	117.4607
120)	Tetraethyldithiopyrophosphate	(4)	8.529	97	405642	116.5563
121)	1,3,5-Trinitrobenzene	(4)	8.619	213	322628	123.9806
122)	Diallate (peak 1)	(4)	8.631	86	1149391	87.8253
123)	Phorate	(4)	8.637	75	1913927	116.6780
124)	Phenacetin	(4)	8.667	108	1447451	117.5321
125)	4-Bromophenyl-phenylether	(4)	8.691	248	540215	119.4013
126)	Diallate (peak 2)	(4)	8.697	86	238802	29.2875
127)	Hexachlorobenzene	(4)	8.727	284	498025	115.4013
128)	Dimethoate	(4)	8.781	87	1067873	110.5381
129)	Diallate TRANS/CIS	(4)	23.156	86	1388193	117.1089
131)	Pentachlorophenol	(4)	8.894	266	402540	119.8703
132)	Pentachloronitrobenzene	(4)	8.906	237	227780	118.5192
133)	4-Aminobiphenyl	(4)	8.900	169	1736580	106.9486
134)	Pronamide	(4)	8.966	173	1101058	118.8384
135)	Phenanthrene-d10	(4)	9.044	188	546422	20.0000
136)	Dinoseb	(4)	9.050	211	703901	124.2239
137)	Phenanthrene	(4)	9.068	178	3531328	113.2870
138)	Anthracene	(4)	9.110	178	3654842	118.7262
140)	Carbazole	(4)	9.241	167	3488634	115.5293
141)	Methyl parathion	(4)	9.361	109	815138	111.8000
142)	Di-n-butylphthalate	(4)	9.546	149	4110521	116.3830
143)	Parathion	(4)	9.690	109	588947	119.3562
144)	4-Nitroquinoline-1-oxide	(4)	9.702	190	396877	120.2841
146)	Isodrin	(4)	9.911	193	403258	118.6419
147)	Fluoranthene	(4)	10.037	202	3558330	120.0028
152)	Benzidine	(5)	10.168	184	7200492	334.8281
154)	Pyrene	(5)	10.222	202	3857684	115.4483
158)	p-Dimethylaminoazobenzene	(5)	10.474	225	782604	119.7884
159)	Chlorobenzilate	(5)	10.515	139	1218233	118.6679
160)	3,3'-Dimethylbenzidine	(5)	10.755	212	2190216	116.4855
161)	Butylbenzylphthalate	(5)	10.773	149	1894060	118.7219
162)	2-Acetylaminofluorene	(5)	10.976	181	1688575	120.4913
164)	3,3'-Dichlorobenzidine	(5)	11.239	252	1111256	117.3969
165)	4,4'-Methylenebis(2-Chloroanil	(5)	11.245	231	588318	116.2098
166)	Benzo(a)anthracene	(5)	11.257	228	3139323	122.3797
167)	Pyrene-d10	(5)	10.204	212	614668	20.0000
168)	Chrysene	(5)	11.293	228	3185192	119.1534
169)	bis(2-Ethylhexyl)phthalate	(5)	11.317	149	2596119	120.2995
189)	6-Methylchrysene	(5)	11.748	242	2293468	119.9747
190)	Dibenz(a,h)acridine	(6)	13.836	279	2000658	122.0145
170)	Di-n-octylphthalate	(6)	12.005	149	4299207	122.6725
191)	Dibenz(a,j)acridine	(6)	13.901	279	2180632	119.9312

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

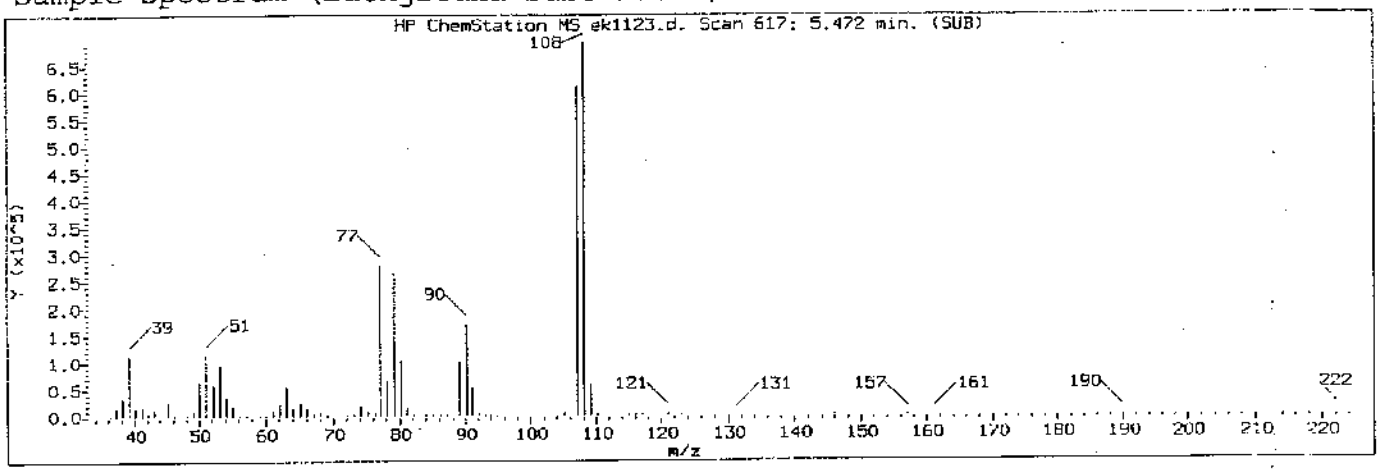
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

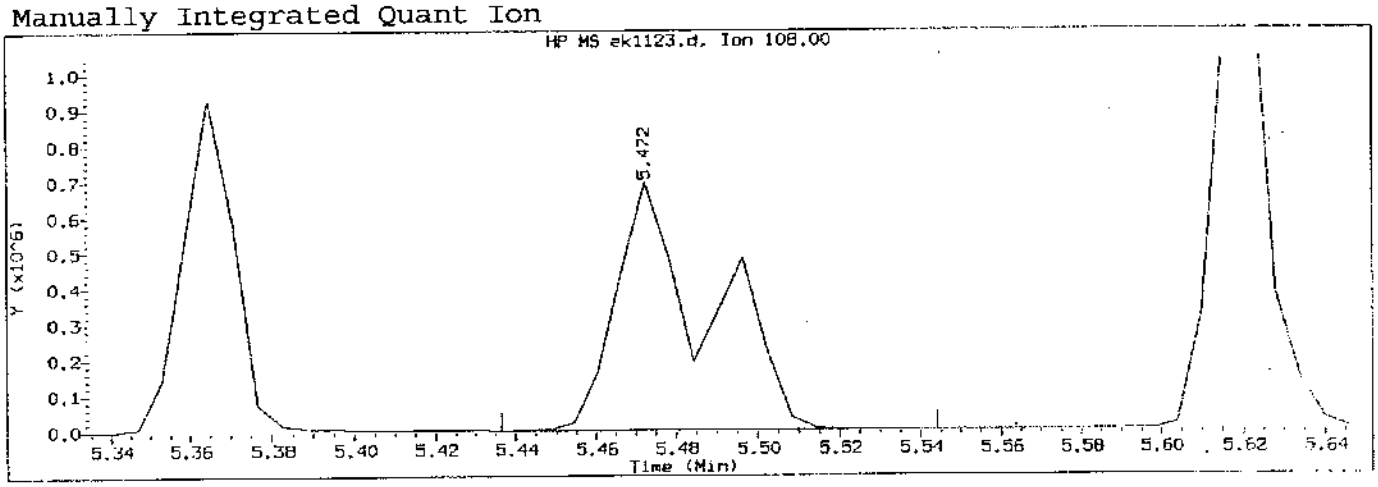
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
171)	7,12-Dimethylbenz[a]anthracene	(6)	12.388	256	1394120	119.9394
172)	Benzo(b)fluoranthene	(6)	12.394	252	3157319M	134.3567
194)	Quinoline	(2)	6.681	129	2224741	115.3629
173)	Benzo(k)fluoranthene	(6)	12.424	252	2918140M	123.1356
174)	Benzo(a)pyrene	(6)	12.753	252	2710867	124.1758
175)	Perylene-d12	(6)	12.807	264	401601	20.0000
202)	NDPA as diphenylamine	(4)	8.392	169	2159865	117.6361
176)	3-Methylcholanthrene	(6)	13.177	268	1389792	121.2294
177)	Indeno(1,2,3-cd)pyrene	(6)	14.111	276	2769956	126.1346
178)	Dibenz(a,h)anthracene	(6)	14.147	278	2364636	124.6662
206)	Indene	(1)	5.454	115	1722365	117.1005
179)	Benzo(g,h,i)perylene	(6)	14.428	276	2319875	123.2001
9)	2-Fluorophenol	(1)	3.935	112	1043408	118.3808
14)	Phenol-d5	(1)	4.898	99	1486412	117.2660
15)	Phenol-d6	(1)	4.898	99	1486412	117.2660
38)	Nitrobenzene-d5	(2)	5.730	82	1303416	116.5985
78)	2-Fluorobiphenyl	(3)	7.279	172	2242954	117.4591
119)	2,4,6-Tribromophenol	(3)	8.481	330	234275	121.8598
156)	Terphenyl-d14	(5)	10.360	244	2208734	118.2843

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number	: 26
Compound Name	: 2-Methylphenol
Scan Number	: 617
Retention Time (minutes)	: 5.472
Quant Ion	: 108
Area (flag)	: 1107134 M
Concentration (ng/ul)	: 118.2697
Integration start scan	: 610 Integration stop scan: 628
Y at integration start	: 204 Y at integration end: 204

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 11/23/11

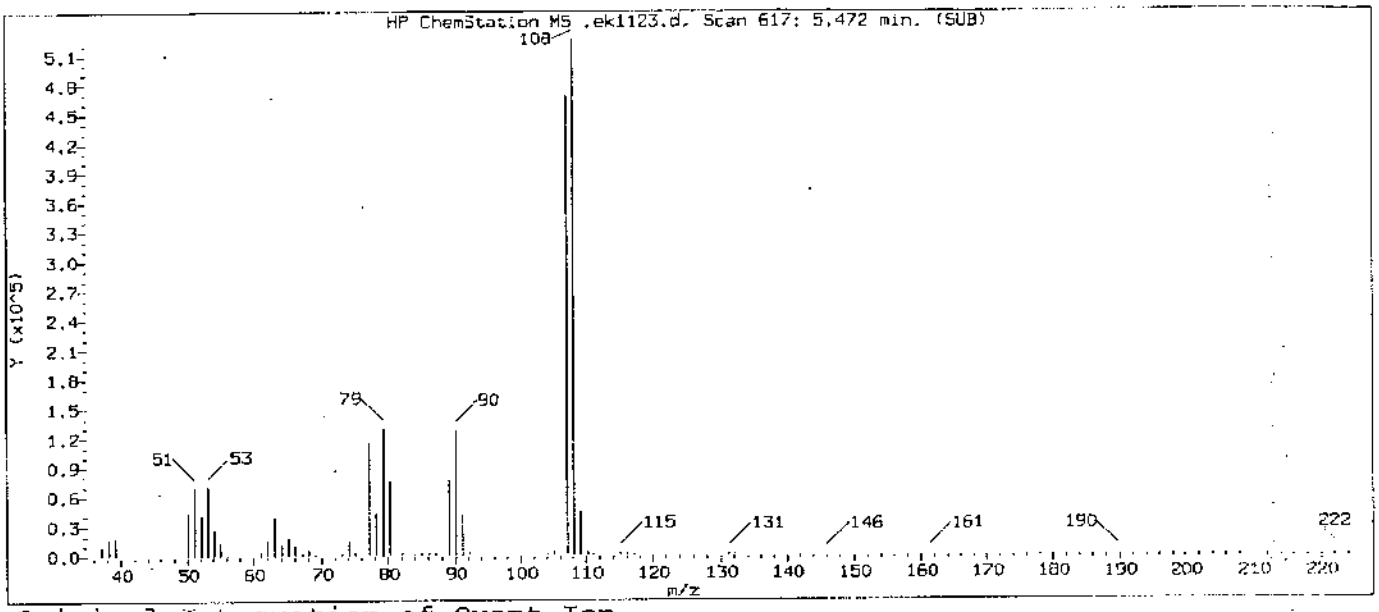
GC/MS audit/management approval: NOV 25 2011

PCH89 0635

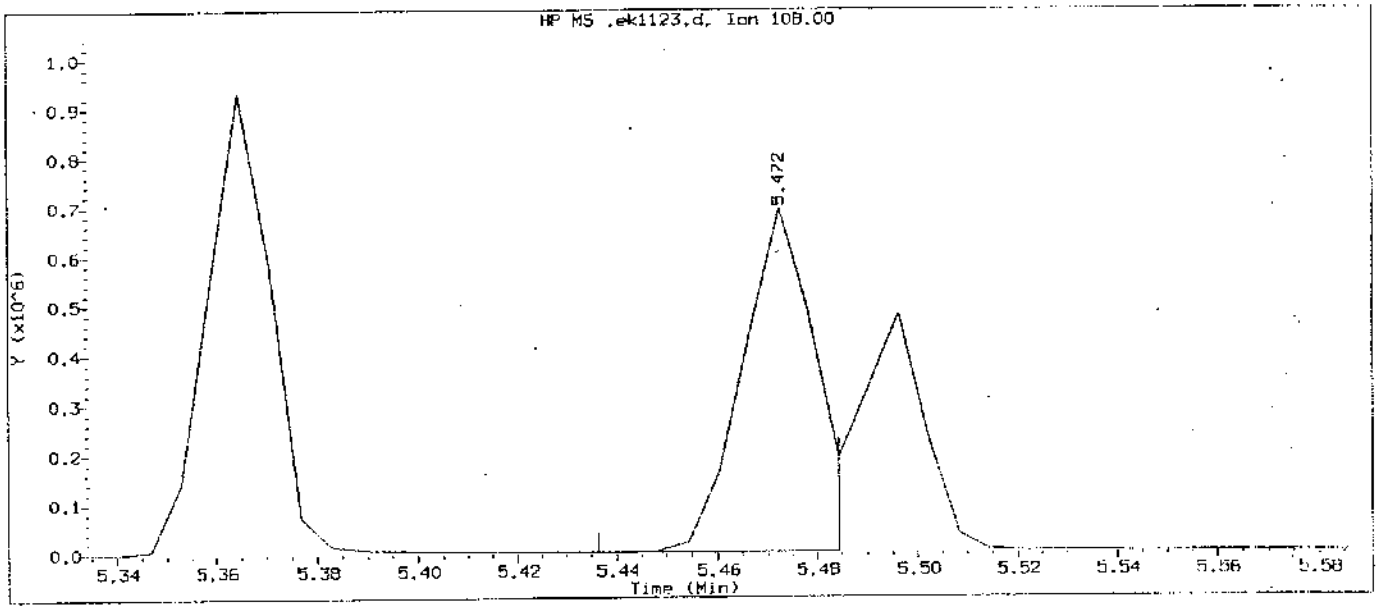
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:03
Date, time and analyst ID of latest file update: 23-Nov-2011 08:03 msw02109

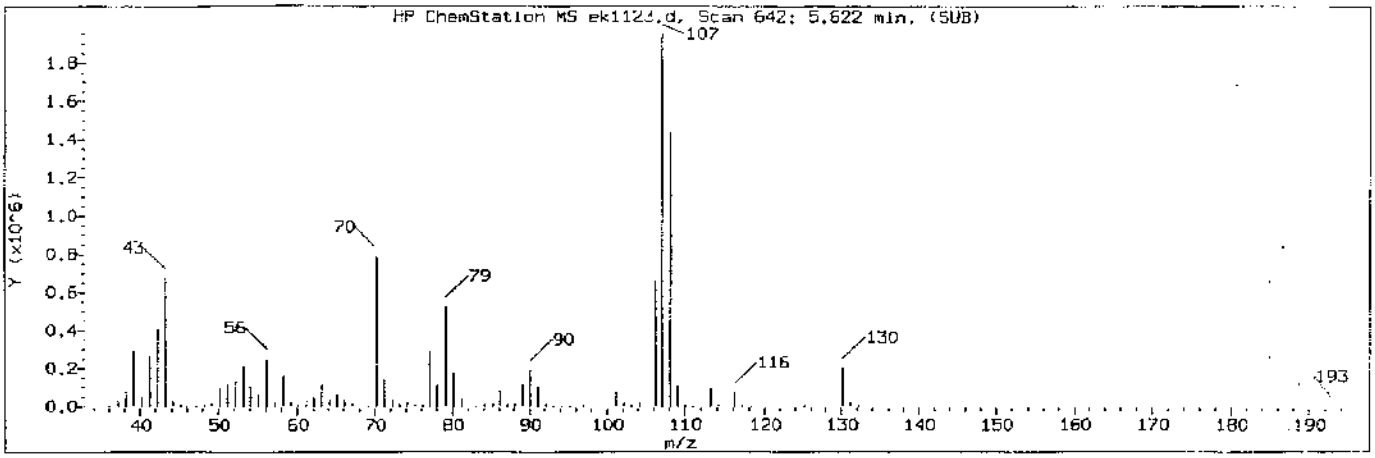
Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number	: 26
Compound Name	: 2-Methylphenol
Scan Number	: 617
Retention Time (minutes)	: 5.472
Quant Ion	: 108
Area	: 682732
Concentration (ng/ul)	: 142.6616
Integration start scan	: 610 Integration stop scan: 618
Y at integration start	: 0 Y at integration end: 0

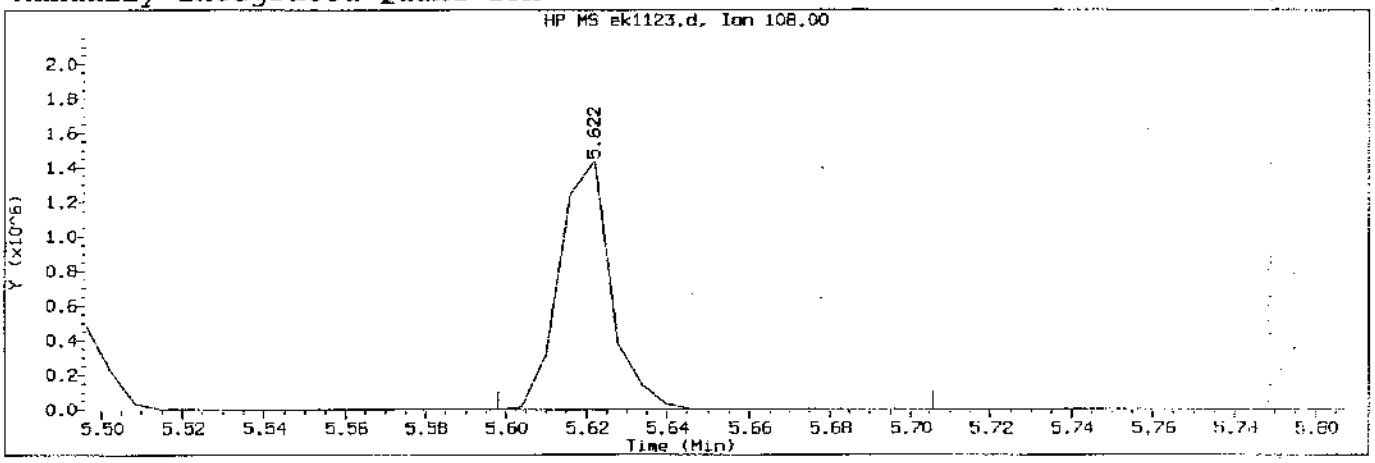
PCN89 8636

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number : 33
Compound Name : 4-Methylphenol
Scan Number : 642
Retention Time (minutes): 5.622
Quant Ion : 108
Area (flag) : 1285163A
Concentration (ng/ul) : 115.4573
Integration start scan : 637 Integration stop scan: 655
Y at integration start : 106 Y at integration end: 87

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature]

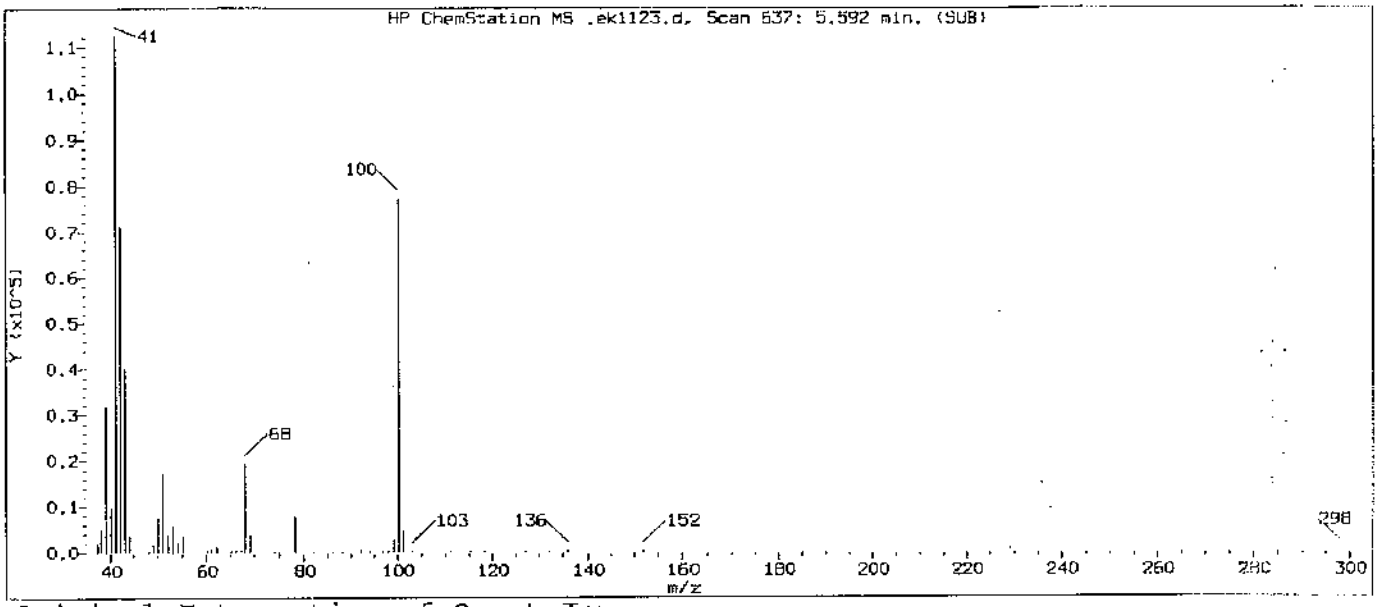
GC/MS audit/management approval: [signature] PCH09 8637

NOV 25 2011

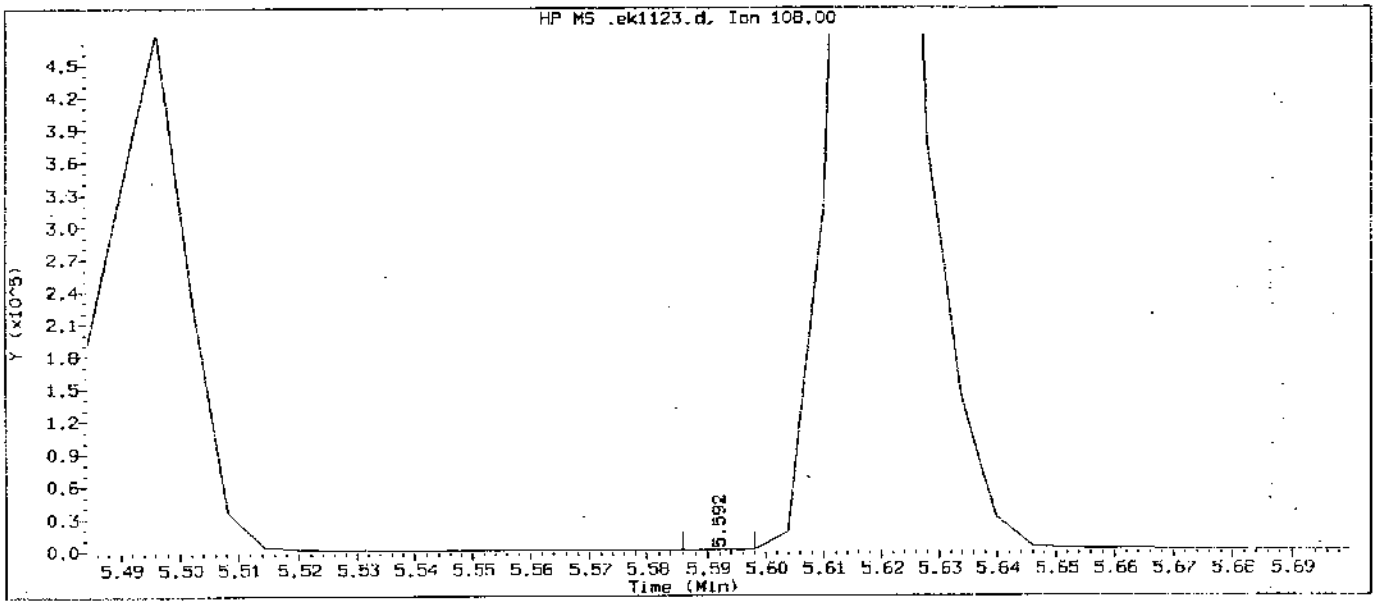
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:03
Date, time and analyst ID of latest file update: 23-Nov-2011 08:03 msw02109

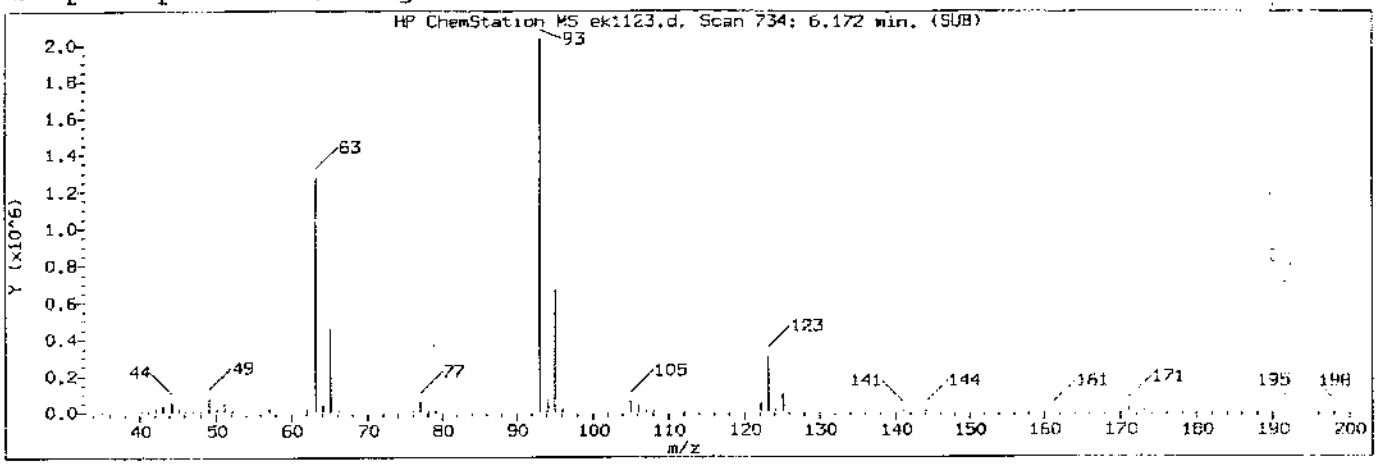
Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number	: 33
Compound Name	: 4-Methylphenol
Scan Number	: 637
Retention Time (minutes)	: 5.592
Quant Ion	: 108
Area	: 415
Concentration (ng/ul)	: 0.0876
Integration start scan	: 635 Integration stop scan: 637
Y at integration start	: 106 Y at integration end: 106

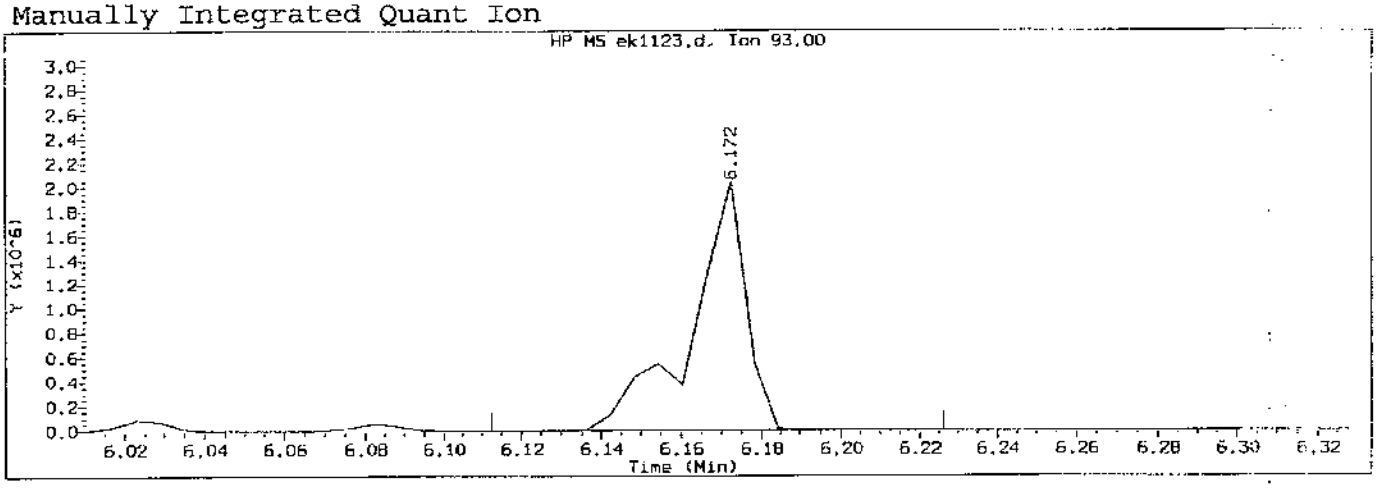
PCH89 8638

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number : 46
Compound Name : bis(2-Chloroethoxy)methane
Scan Number : 734
Retention Time (minutes): 6.172
Quant Ion : 93
Area (flag) : 1912663 M
Concentration (ng/ul) : 129.1756
Integration start scan : 723 Integration stop scan: 742
Y at integration start : 221 Y at integration end: 1662

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: Matthew E Barton

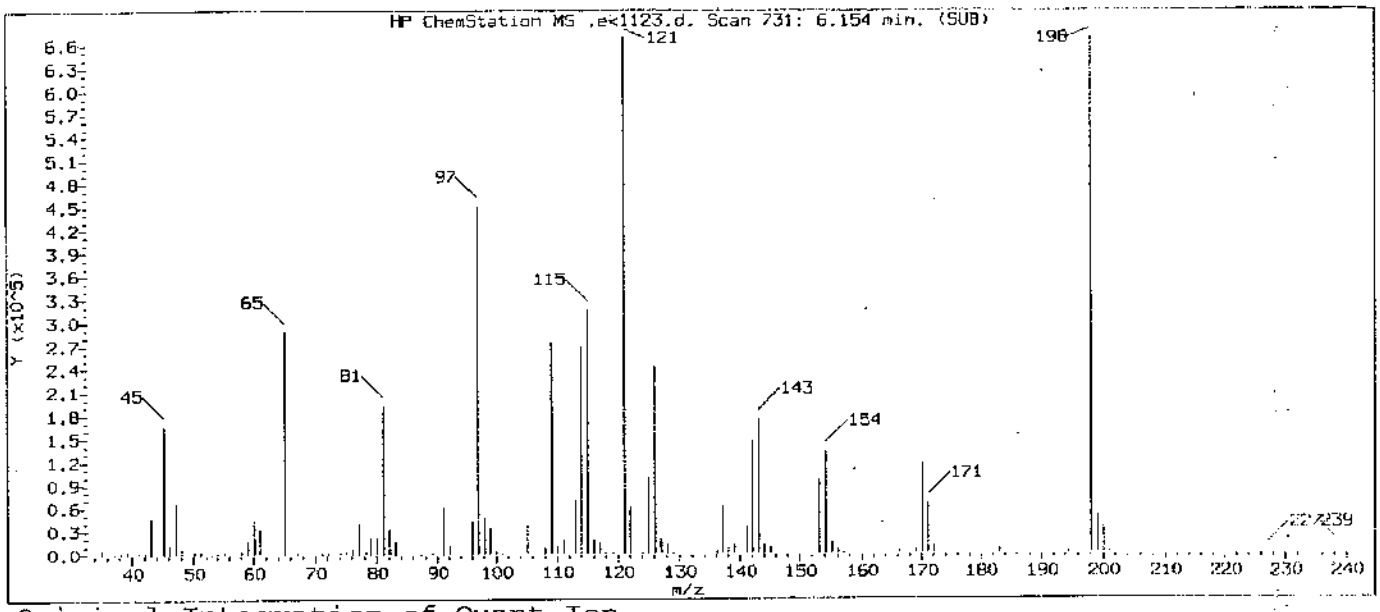
GC/MS audit/management approval: Matthew E Barton FCH09 0639

NOV 25 2011

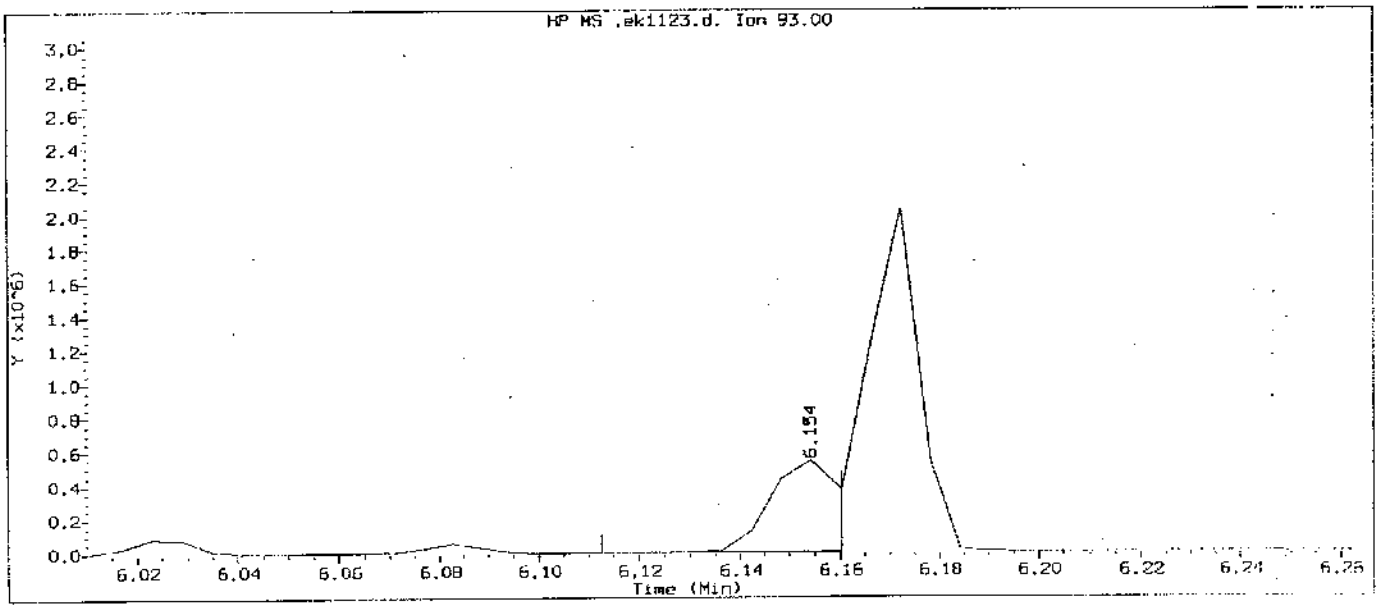
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:03
Date, time and analyst ID of latest file update: 23-Nov-2011 08:03 msw02109

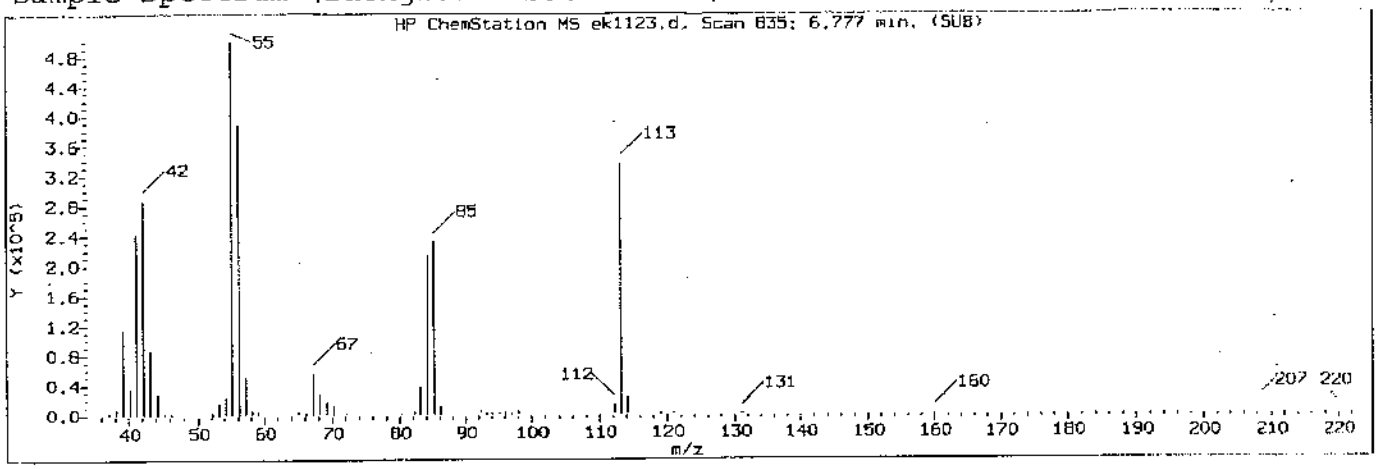
Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number : 46
Compound Name : bis(2-Chloroethoxy)methane
Scan Number : 731
Retention Time (minutes): 6.154
Quant Ion : 93
Area : 468065
Concentration (ng/ul) : 52.5738
Integration start scan : 723 Integration stop scan: 731
Y at integration start : 0 Y at integration end: 0

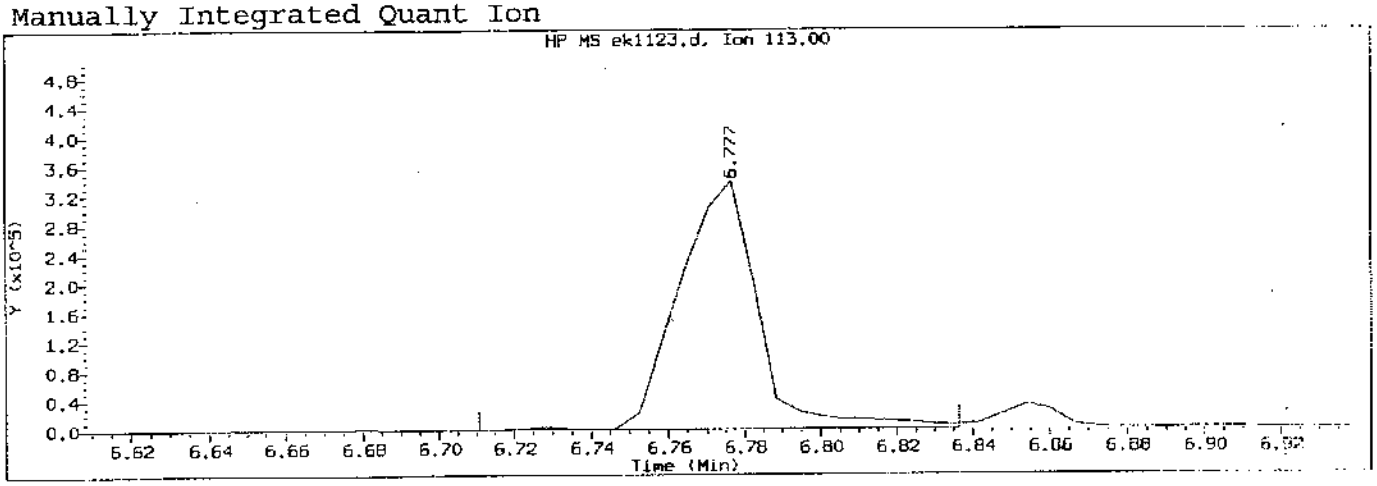
PCH89 8648

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number	: 63
Compound Name	: Caprolactam
Scan Number	: 835
Retention Time (minutes)	: 6.777
Quant Ion	: 113
Area (flag)	: 483459 M
Concentration (ng/ul)	: 115.8822
Integration start scan	: 823 Integration stop scan: 844
Y at integration start	: 105 Y at integration end: 105

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: NSwalin 11/25/11

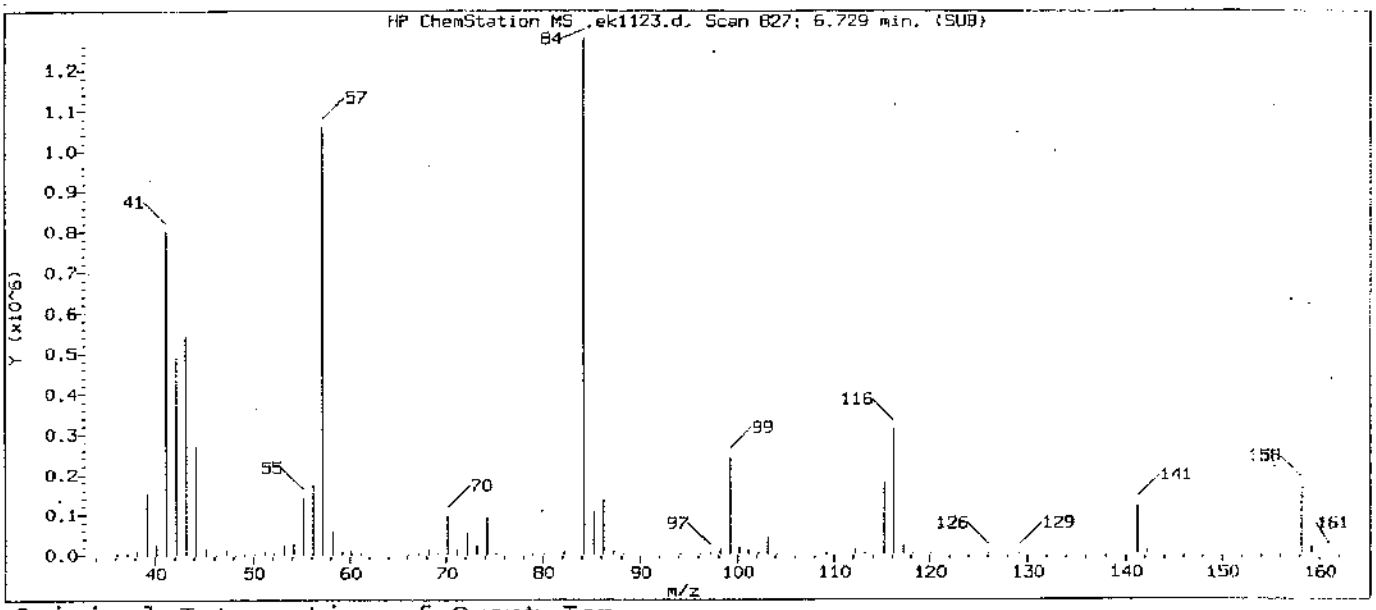
GC/MS audit/management approval: PCH89 8641

NOV 25 2011

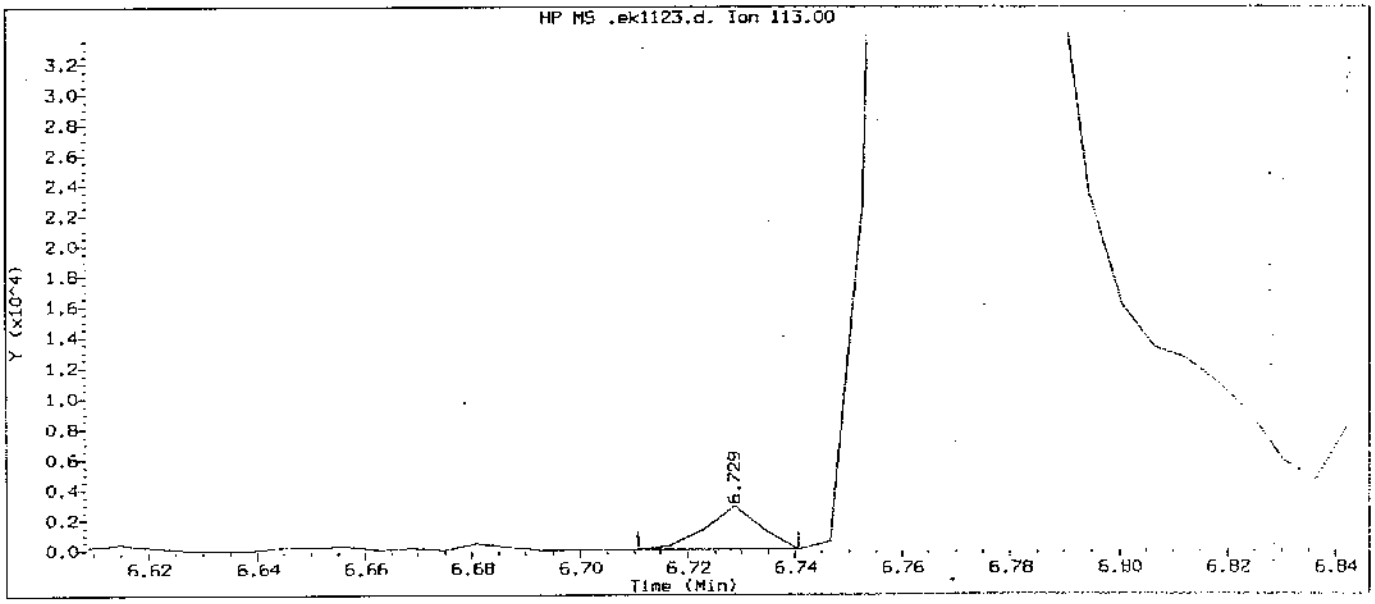
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:03
Date, time and analyst ID of latest file update: 23-Nov-2011 08:03 msw02109

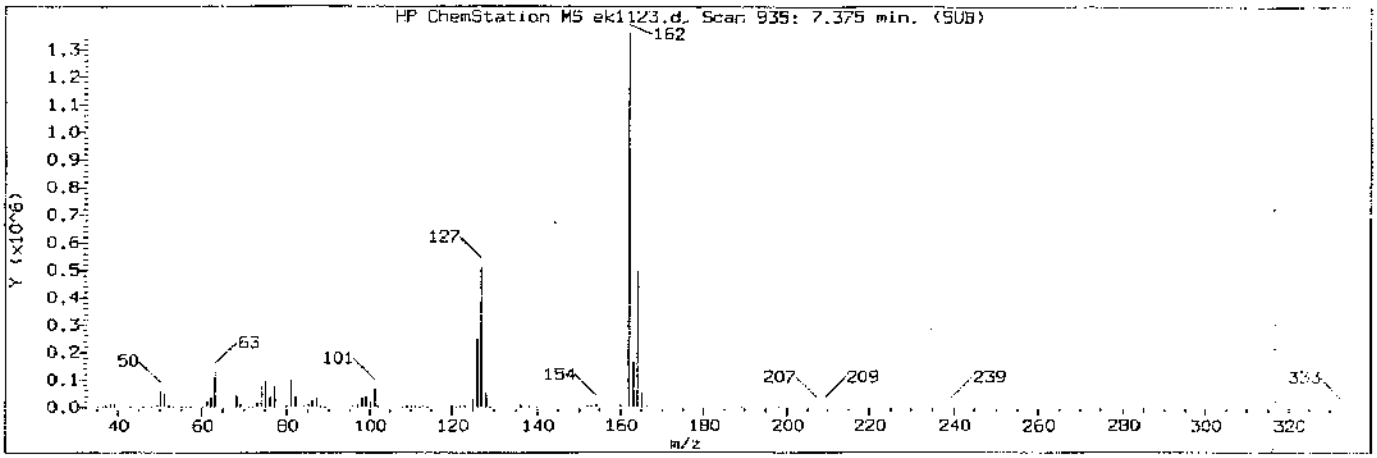
Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number : 63
Compound Name : Caprolactam
Scan Number : 827
Retention Time (minutes): 6.729
Quant Ion : 113
Area : 2015
Concentration (ng/ul) : 1.2441
Integration start scan : 823 Integration stop scan: 828
Y at integration start : 0 Y at integration end: 0

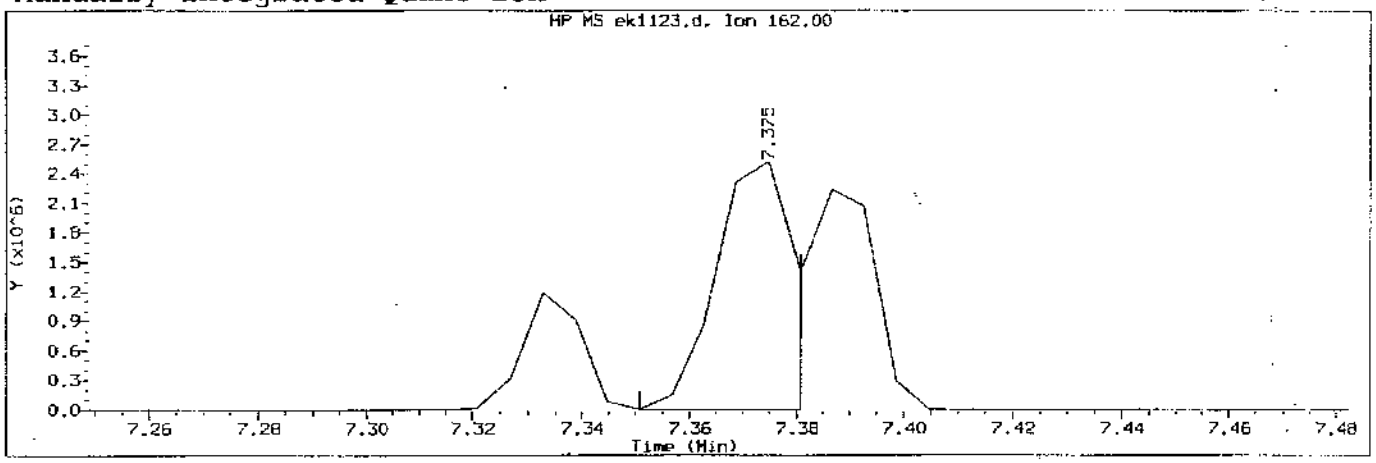
PCN89 5642

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number : 84
Compound Name : 2-Chloronaphthalene
Scan Number : 935
Retention Time (minutes): 7.375
Quant Ion : 162
Area (flag) : 2603980 M
Concentration (ng/ul) : 119.1190
Integration start scan : 930 Integration stop scan: 935
Y at integration start : 753 Y at integration end: 613

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

GC/MS audit/management approval: _____

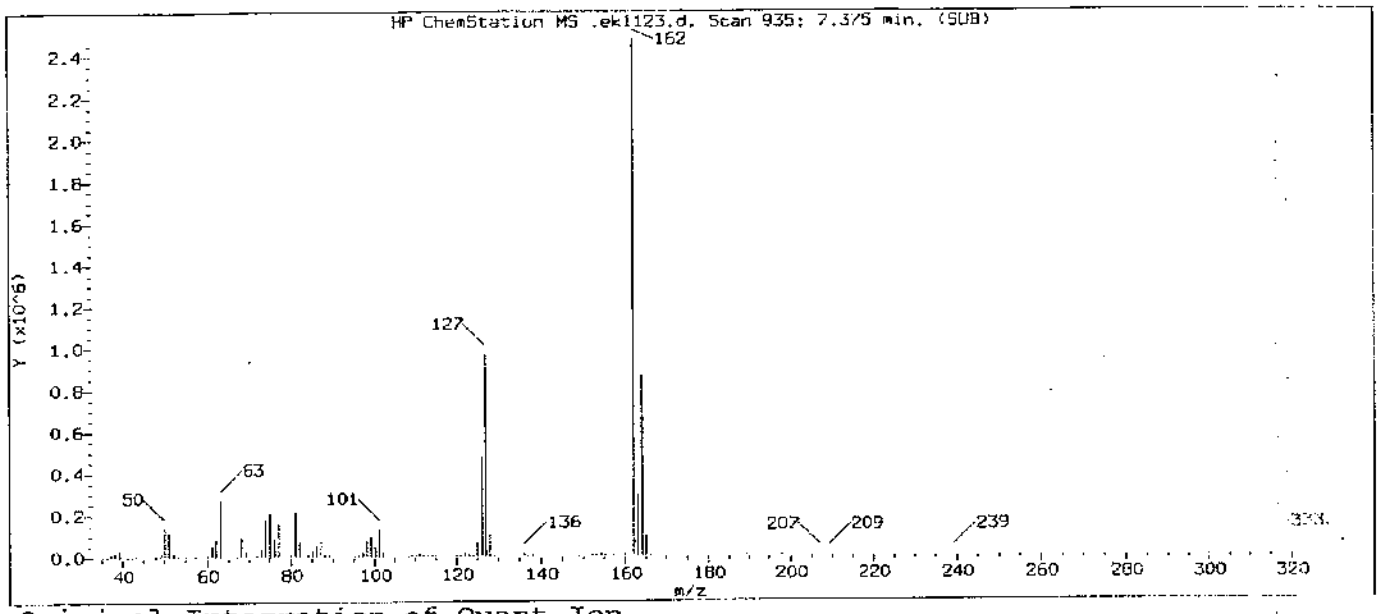
FCH09 0643

NOV 25 2011

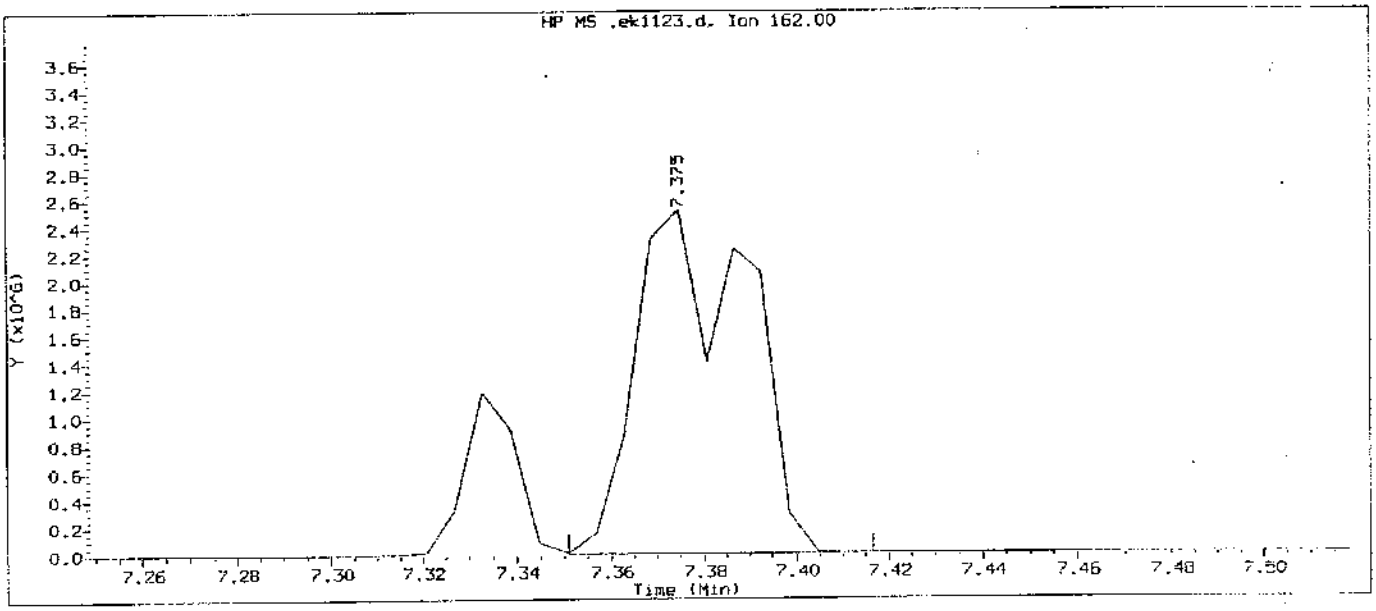
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:03
Date, time and analyst ID of latest file update: 23-Nov-2011 08:03 msw02109

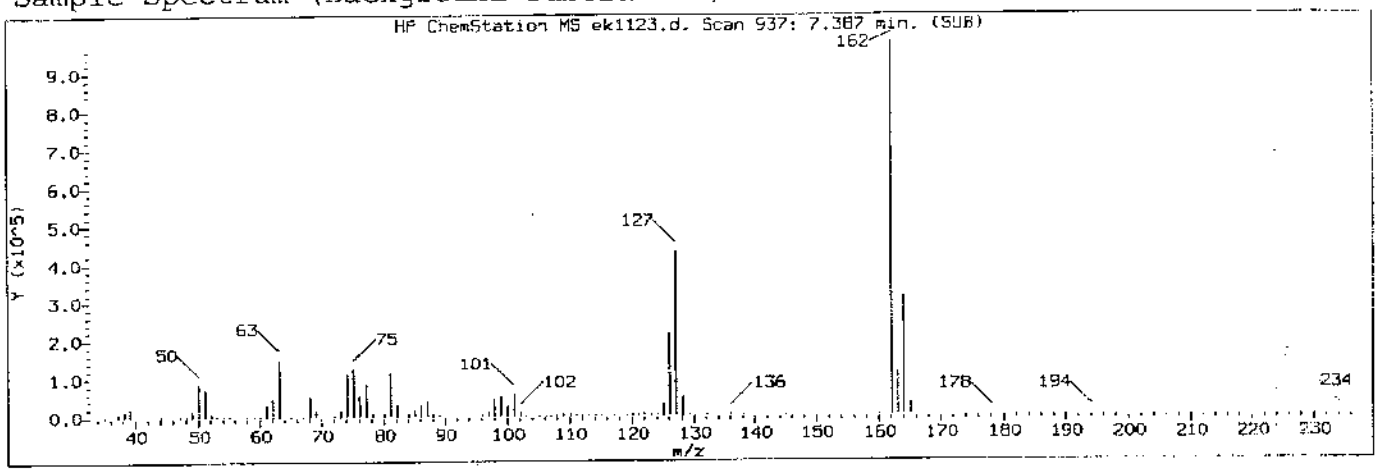
Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number : 84
Compound Name : 2-Chloronaphthalene
Scan Number : 935
Retention Time (minutes): 7.375
Quant Ion : 162
Area : 4255297
Concentration (ng/ul) : 119.5227
Integration start scan : 930 Integration stop scan: 941
Y at integration start : 753 Y at integration end: 443

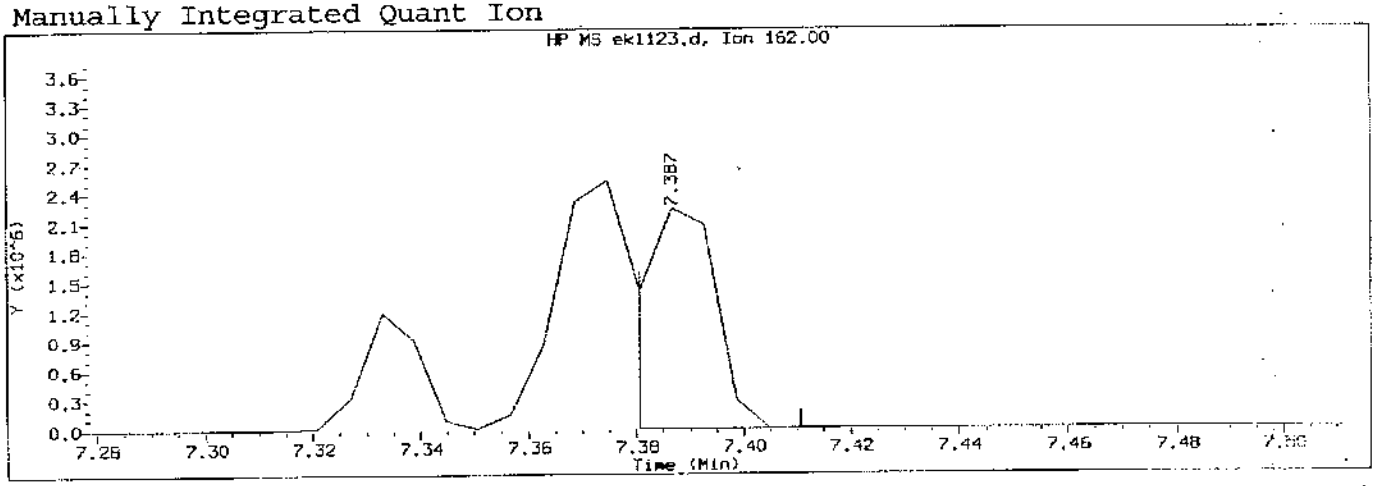
PCH09 0644

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number	:	85
Compound Name	:	1-Chloronaphthalene
Scan Number	:	937
Retention Time (minutes)	:	7.387
Quant Ion	:	162
Area (flag)	:	2155322 M
Concentration (ng/ul)	:	120.3991
Integration start scan	:	935 Integration stop scan: 940
Y at integration start	:	968 Y at integration end: 968

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 11/28/11

GC/MS audit/management approval: [signature]

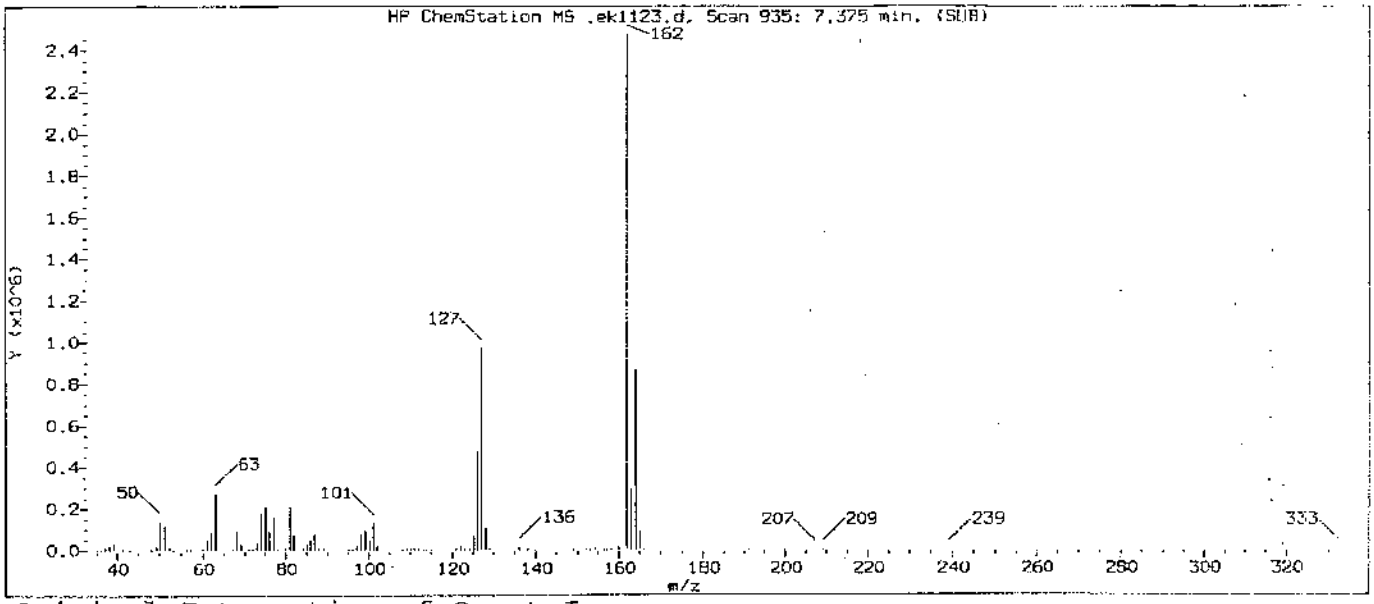
PCH09 0045

NOV 25 2011

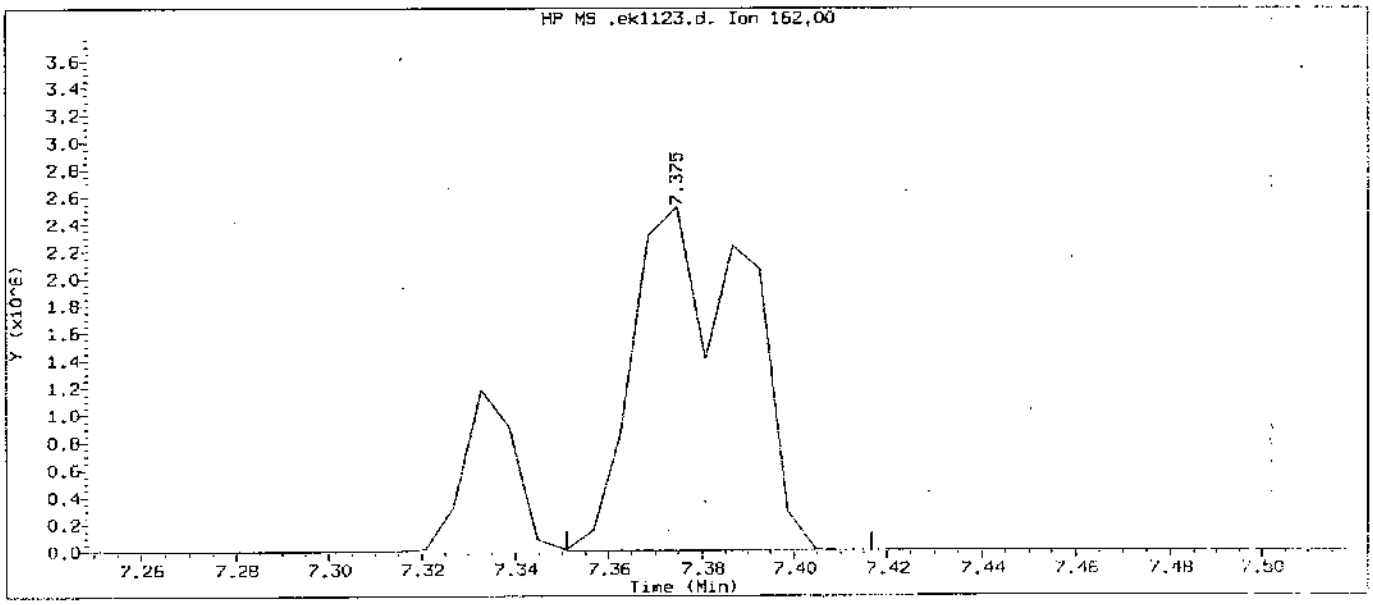
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:03
Date, time and analyst ID of latest file update: 23-Nov-2011 08:03 msw02109

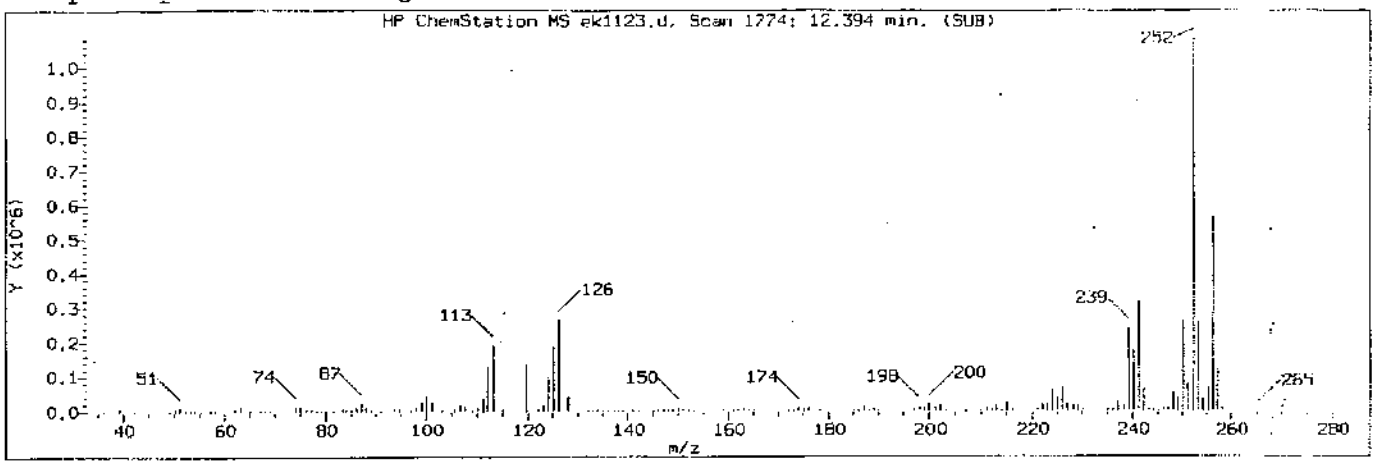
Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number	: 85		
Compound Name	: 1-Chloronaphthalene		
Scan Number	: 935		
Retention Time (minutes)	: 7.375		
Quant Ion	: 162		
Area	: 4253674		
Concentration (ng/ul)	: 159.9218		
Integration start scan	: 930	Integration stop scan:	941
Y at integration start	: 1242	Y at integration end:	776

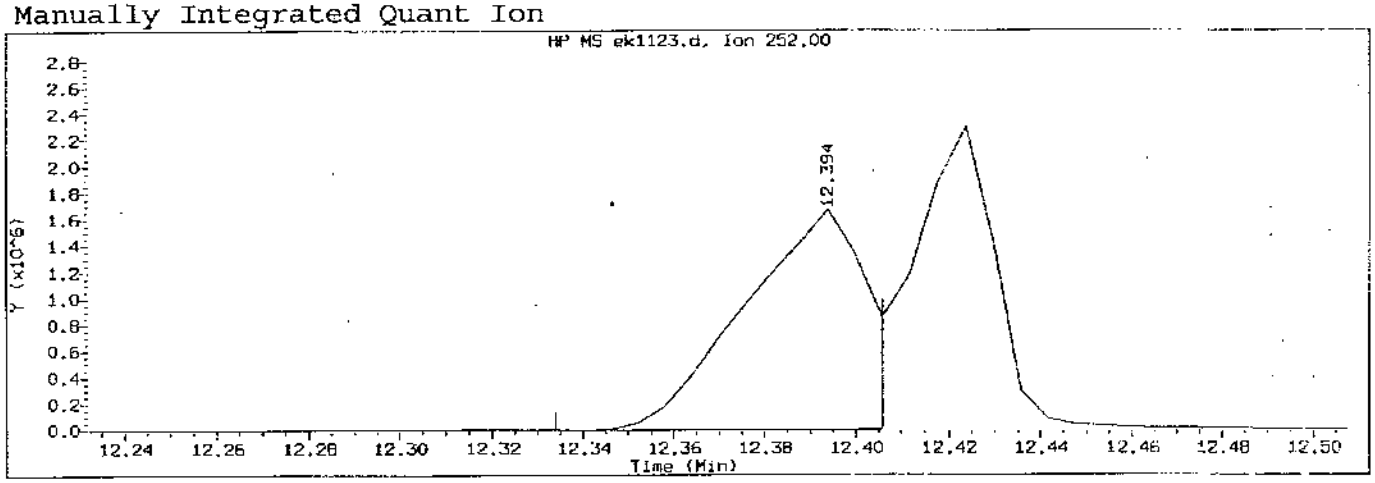
PCH89 8646

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1774
Retention Time (minutes): 12.394
Quant Ion : 252
Area (flag) : 3157319 M
Concentration (ng/ul) : 134.3567
Integration start scan : 1763 Integration stop scan: 1775
Y at integration start : 0 Y at integration end: 785

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 11/23/11

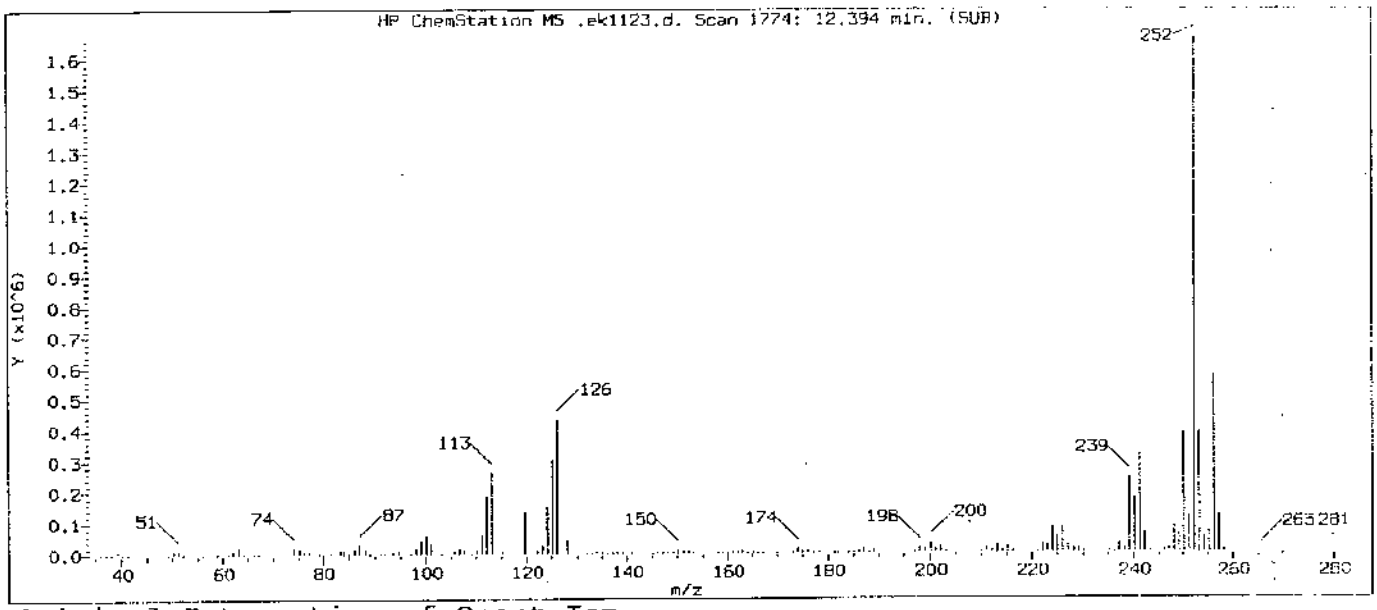
GC/MS audit/management approval: PCH89 8647

NOV 25 2011

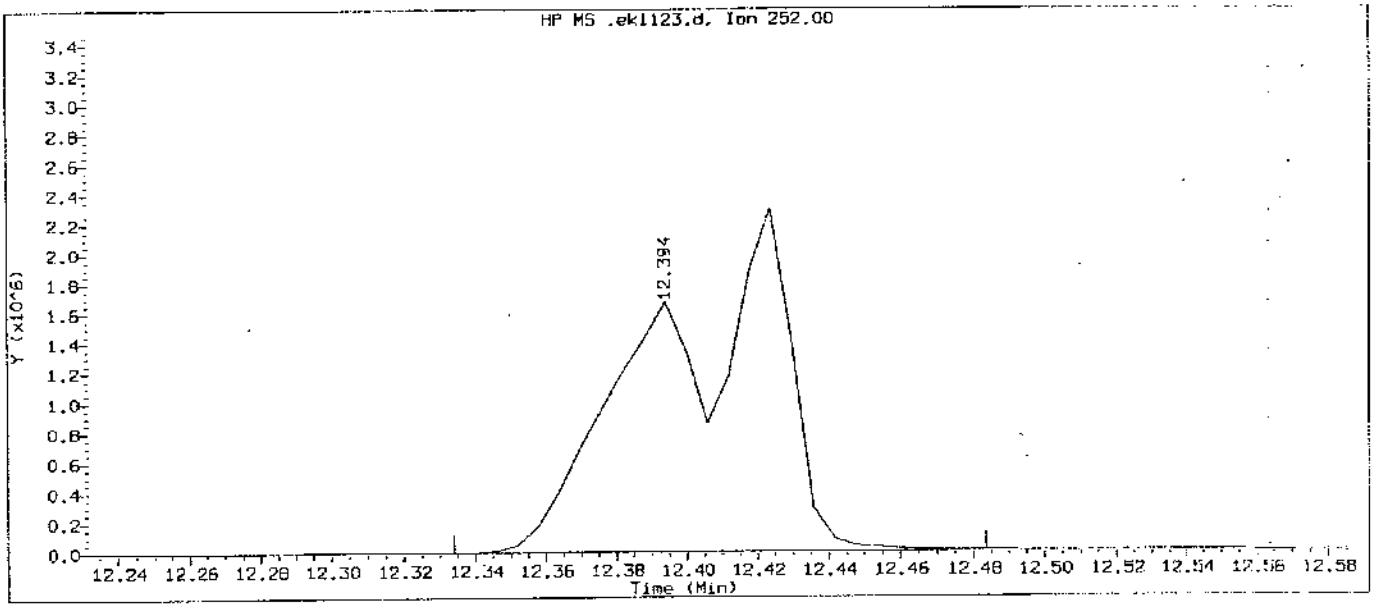
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:03
Date, time and analyst ID of latest file update: 23-Nov-2011 08:03 msw02109

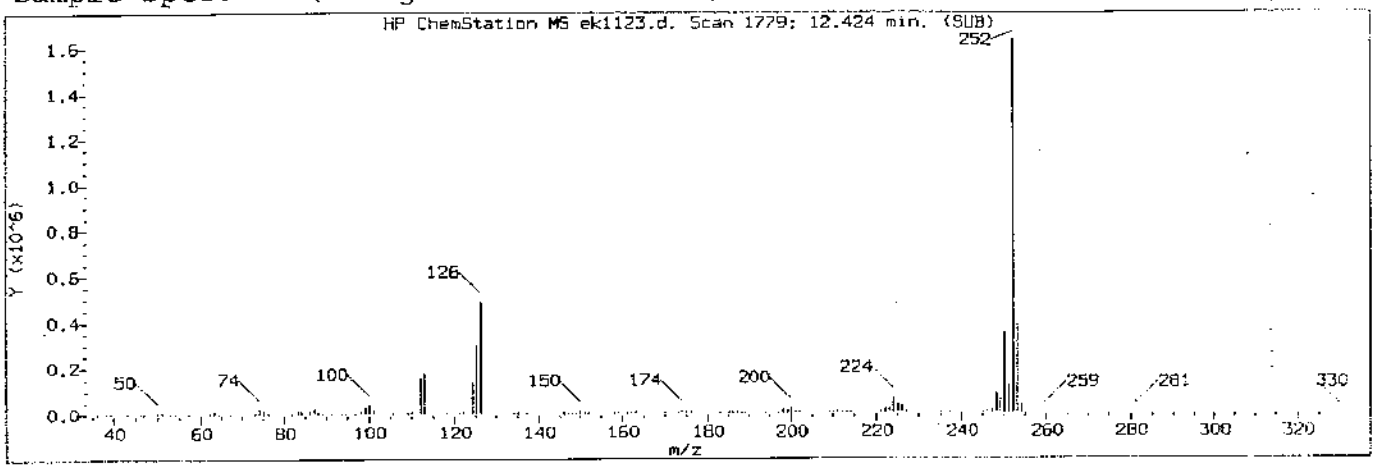
Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number	:	172
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1774
Retention Time (minutes)	:	12.394
Quant Ion	:	252
Area	:	5765005
Concentration (ng/ul)	:	223.2852
Integration start scan	:	1763 Integration stop scan: 1788
Y at integration start	:	0 Y at integration end: 1637

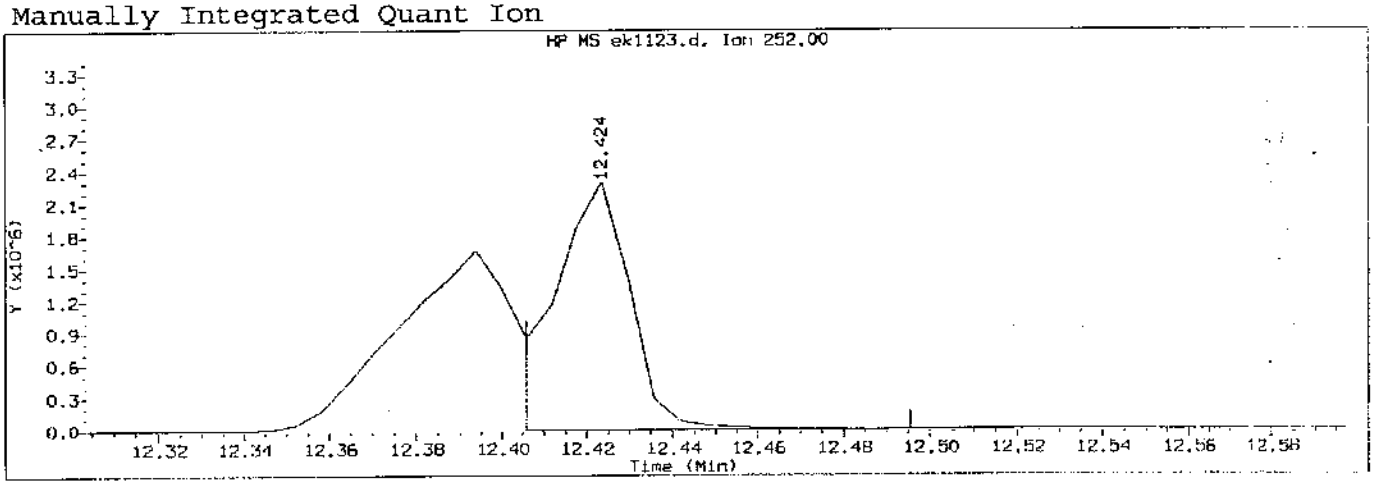
PCN89 8648

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:25
Date, time and analyst ID of latest file update: 23-Nov-2011 08:25 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number	: 173	
Compound Name	: Benzo(k)fluoranthene	
Scan Number	: 1779	
Retention Time (minutes)	: 12.424	
Quant Ion	: 252	
Area (flag)	: 2918140 M	
Concentration (ng/ul)	: 123.1356	
Integration start scan	: 1775	Integration stop scan: 1790
Y at integration start	: 1447	Y at integration end: 1447

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: mej 11/23/11

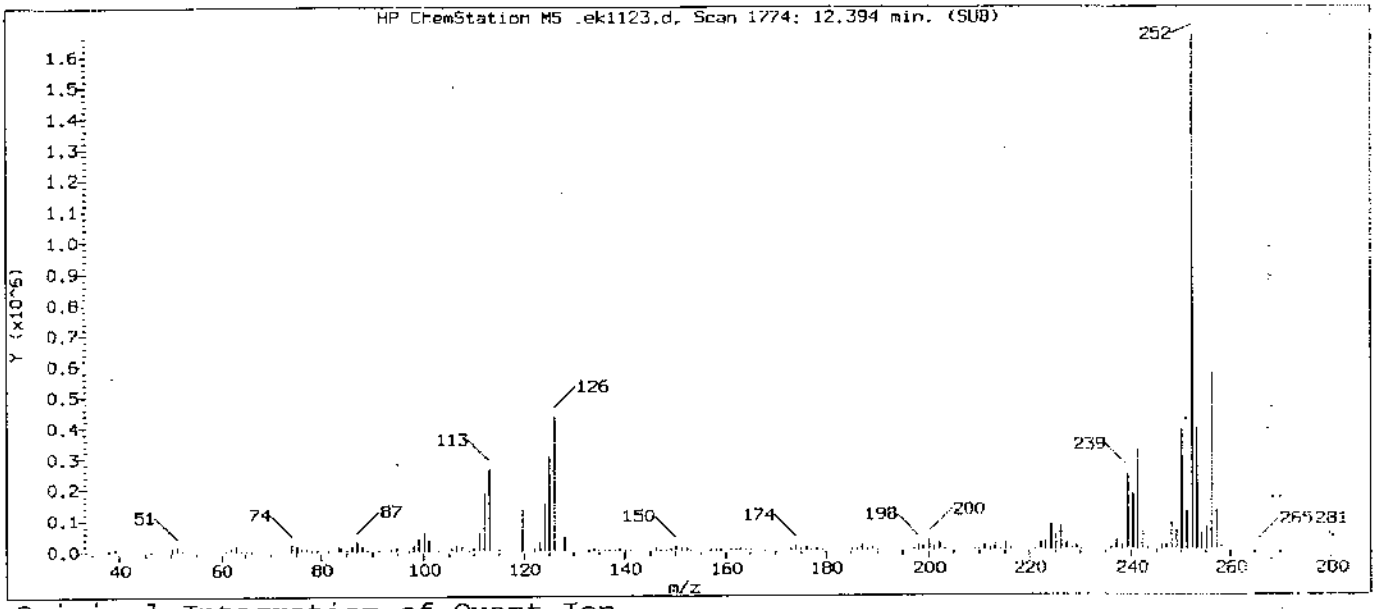
GC/MS audit/management approval: PCH89 8649

NOV 25 2011

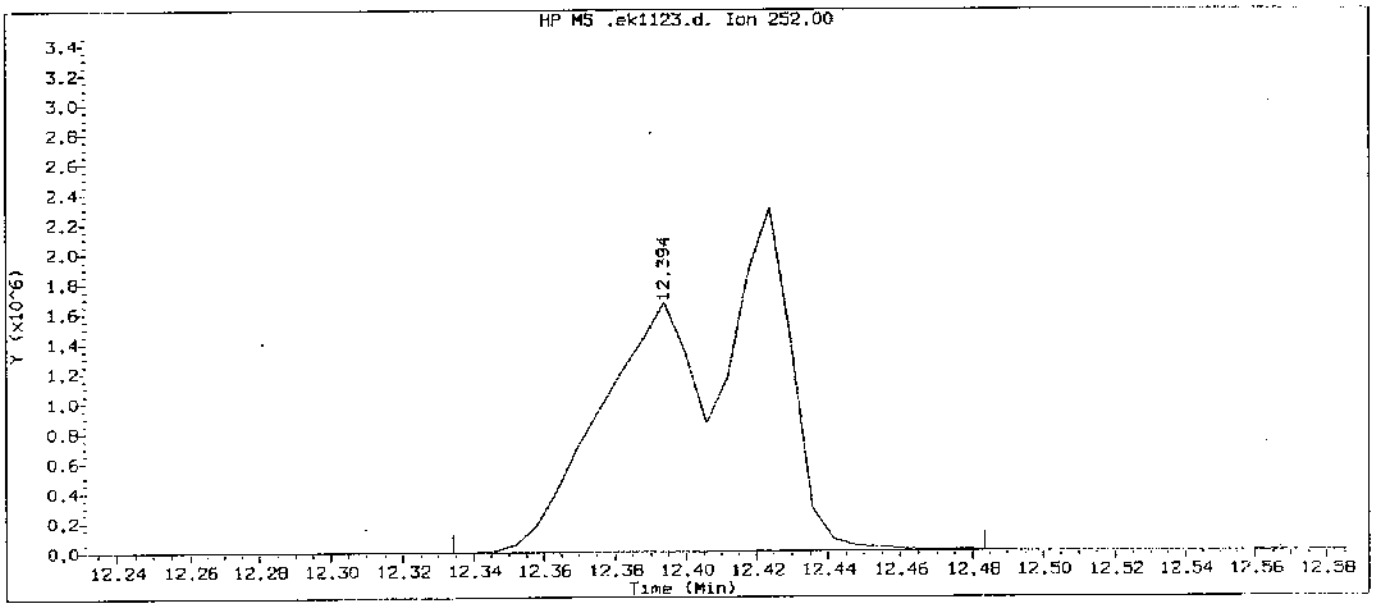
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1123.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 22:43 Analyst ID: jrr02820

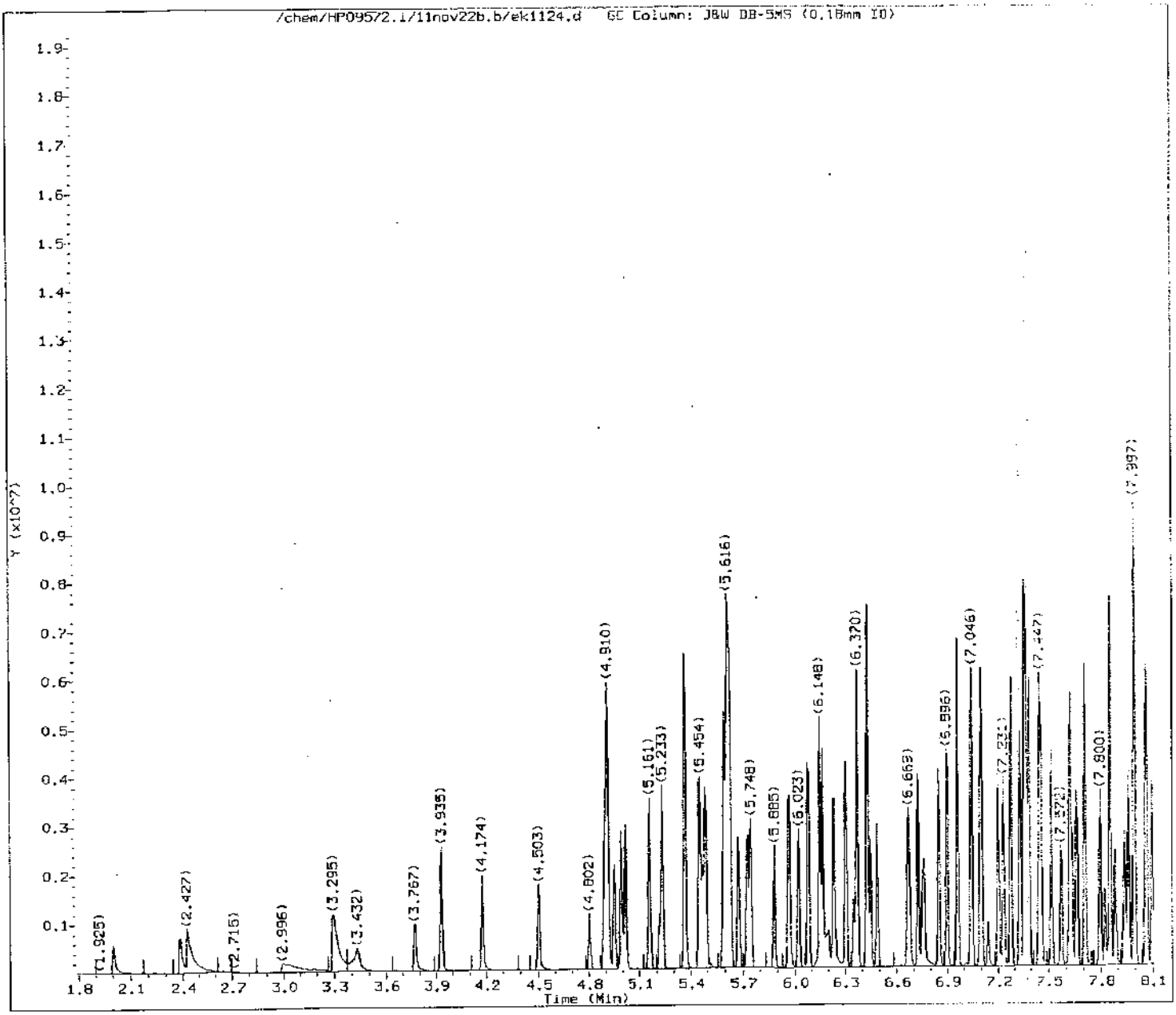
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:03
Date, time and analyst ID of latest file update: 23-Nov-2011 08:03 msw02109

Sample Name: SSTD120 Lab Sample ID: STD3191

Compound Number	: 173
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1774
Retention Time (minutes)	: 12.394
Quant Ion	: 252
Area	: 5764570
Concentration (ng/ul)	: 202.4228
Integration start scan	: 1763 Integration stop scan: 1788
Y at integration start	: 0 Y at integration end: 1741

PCH89 8658

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1123.d, generated on 11/23/2011 at 08:26



Quant Report

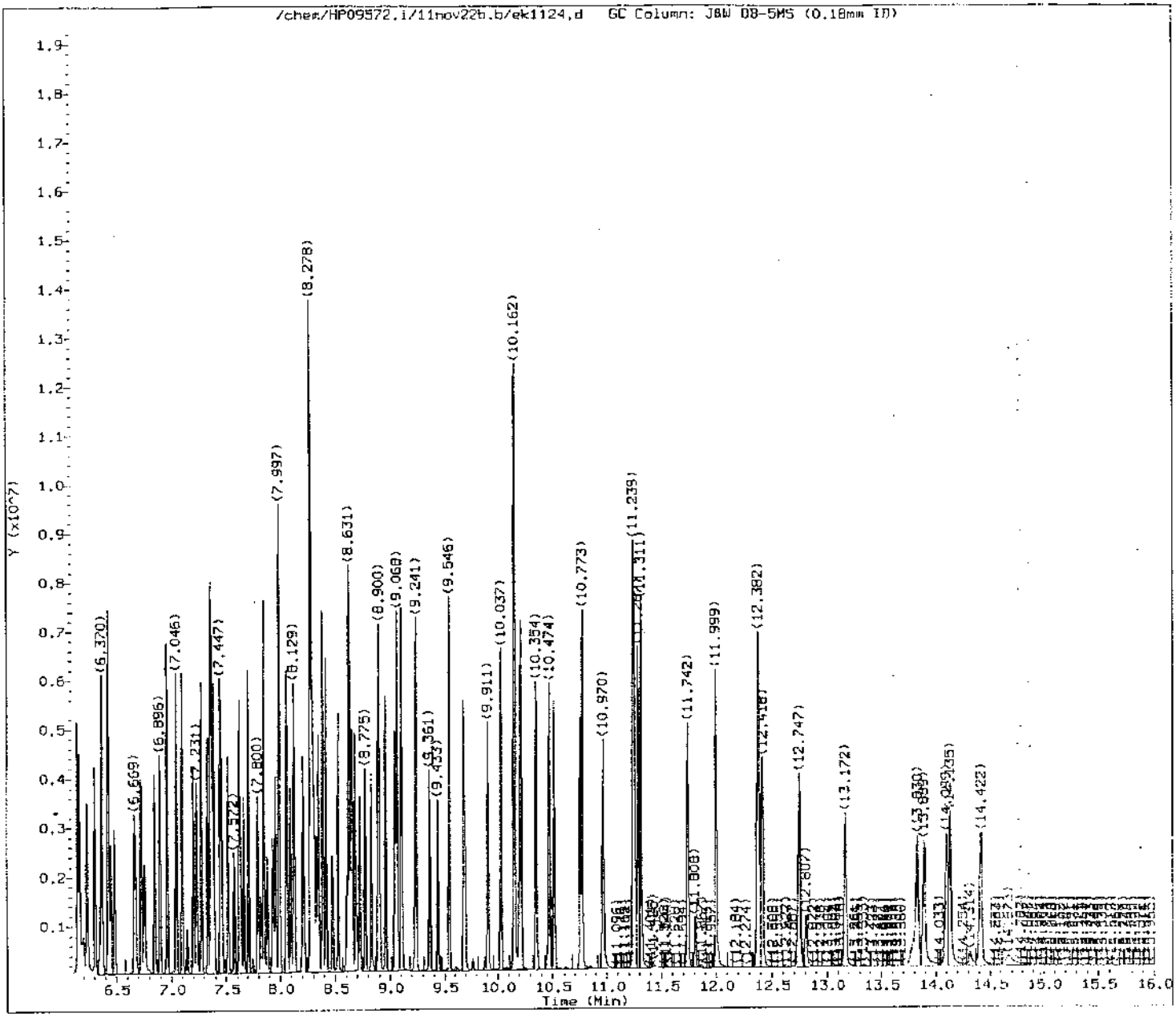
Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

11/23/11 PCB89 8651



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

PCH89 8652

11/23/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.003	88	261260	86.0301
2)	N-Nitrosodimethylamine	(1)	2.386	74	468800	85.6223
3)	Pyridine	(1)	2.427	79	727538	78.9067
5)	2-Picoline	(1)	3.295	93	774698	81.7603
6)	N-Nitrosomethylethylamine	(1)	3.432	88	383781	80.6371
7)	Methyl methanesulfonate	(1)	3.767	80	381932	82.0284
10)	N-Nitrosodiethylamine	(1)	4.174	102	387077	81.0958
11)	Ethyl methanesulfonate	(1)	4.503	109	375819	82.4238
13)	Aniline	(1)	4.916	93	1271582	81.7734
16)	Phenol	(1)	4.904	94	1119555	82.1566
18)	bis(2-Chloroethyl)ether	(1)	4.994	93	805426	81.5523
19)	2-Chlorophenol	(1)	5.018	128	714665	81.8153
20)	1,3-Dichlorobenzene	(1)	5.161	146	670603	81.2202
21)	1,4-Dichlorobenzene-d4	(1)	5.215	152	103487	20.0000
22)	1,4-Dichlorobenzene	(1)	5.233	146	695897	81.6919
24)	Benzyl alcohol	(1)	5.365	108	542845	81.6633
25)	1,2-Dichlorobenzene	(1)	5.371	146	661638	82.0479
26)	2-Methylphenol	(1)	5.466	108	723476	82.1621
27)	2,2'-oxybis(1-Chloropropane)	(1)	5.490	45	1275624	81.6694
28)	bis(2-Chloroisopropyl)ether	(1)	5.490	45	1275624	81.6694
29)	N-Nitrosopyrrolidine	(1)	5.592	100	450279	82.0212
30)	Acetophenone	(1)	5.598	105	1036222	81.2603
31)	N-Nitroso-di-n-propylamine	(1)	5.616	70	641302	82.5698
32)	N-Nitrosomorpholine	(1)	5.628	56	562527	81.8779
33)	4-Methylphenol	(1)	5.616	108	868448	82.6742
34)	o-Toluidine	(1)	5.628	106	1218796	82.1116
37)	Hexachloroethane	(1)	5.676	117	267857	81.3970
39)	Nitrobenzene	(2)	5.748	77	882606	81.1882
40)	N-Nitrosopiperidine	(2)	5.885	114	400919	80.6861
41)	Isophorone	(2)	5.969	82	1635339	80.6140
42)	2-Nitrophenol	(2)	6.023	139	403759	81.5042
44)	2,4-Dimethylphenol	(2)	6.077	107	790819	81.2214
45)	O,O,O-triethylphosphorothioate	(2)	6.148	198	331353	80.7592
46)	bis(2-Chloroethoxy)methane	(2)	6.166	93	1000096	73.9153
47)	Benzoic acid	(2)	6.202	105	726940	81.1085
49)	2,4-Dichlorophenol	(2)	6.238	162	592741	81.3773
50)	1,2,4-Trichlorobenzene	(2)	6.304	180	611160	81.2169
52)	Naphthalene-d8	(2)	6.352	136	484041	20.0000
53)	Naphthalene	(2)	6.370	128	2135023	79.6917
56)	4-Chloroaniline	(2)	6.430	127	968552	81.5468
57)	2,6-Dichlorophenol	(2)	6.430	162	587765	81.7215
58)	Hexachloropropene	(2)	6.448	213	316785	82.0871
60)	Hexachlorobutadiene	(2)	6.483	225	254900	80.3363

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
63)	Caprolactam	(2)	6.759	113	324575M	81.3346
64)	N-Nitrosodi-n-butylamine	(2)	6.729	84	614197	72.7616
68)	4-Chloro-3-methylphenol	(2)	6.848	107	744674	81.5004
69)	Safrole	(2)	6.902	162	568433	80.9562
70)	2-Methylnaphthalene	(2)	6.962	142	1458023	80.6477
71)	1-Methylnaphthalene	(2)	7.046	142	1374232	81.2064
72)	Hexachlorocyclopentadiene	(3)	7.100	237	279392	81.4819
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.100	216	557138	80.3363
74)	cis-Isosafrole	(3)	7.141	162	103795	8.8781
75)	2,4,6-Trichlorophenol	(3)	7.201	196	436431	80.9577
77)	2,4,5-Trichlorophenol	(3)	7.231	196	482643	79.6215
79)	trans-Isosafrole	(3)	7.333	162	600979	71.3542
80)	Isosafrole	(3)	7.333	162	600979	80.1733
83)	1,1'-Biphenyl	(3)	7.357	154	1760865	79.9204
84)	2-Chloronaphthalene	(3)	7.369	162	1901536M	84.9488
85)	1-Chloronaphthalene	(3)	7.387	162	1292311M	75.0160
88)	Diphenyl ether	(3)	7.447	170	940887	80.0920
89)	2-Nitroaniline	(3)	7.459	138	533111	80.8273
90)	1,4-Naphthoquinone	(3)	7.518	158	621280	80.4032
91)	1,4-Dinitrobenzene	(3)	7.578	168	276734	80.9641
92)	Dimethylphthalate	(3)	7.626	163	1612667	80.1406
93)	1,3-Dinitrobenzene	(3)	7.638	168	320454	81.1295
94)	2,6-Dinitrotoluene	(3)	7.668	165	402830	80.1529
95)	Acenaphthylene	(3)	7.710	152	2129904	81.3677
97)	3-Nitroaniline	(3)	7.800	138	472127	80.8768
98)	Acenaphthene-d10	(3)	7.823	164	311866	20.0000
99)	Acenaphthene	(3)	7.853	153	1389834	79.1161
100)	2,4-Dinitrophenol	(3)	7.883	184	258025	82.2058
101)	Pentachlorobenzene	(3)	7.961	250	437792	79.7378
103)	4-Nitrophenol	(3)	7.937	109	268968	84.1756
104)	Dibenzofuran	(3)	7.997	168	1966791	79.8171
105)	2,4-Dinitrotoluene	(3)	7.997	165	536576	80.7266
106)	1-Naphthylamine	(3)	8.063	143	1643244	80.1819
107)	2,3,4,6-Tetrachlorophenol	(3)	8.099	232	350015	82.2887
108)	2-Naphthylamine	(3)	8.129	143	1637562	79.2818
109)	Diethylphthalate	(3)	8.212	149	1611015	80.0739
110)	Thionazin	(3)	8.278	107	345233	80.4325
111)	Fluorene	(3)	8.278	166	1657029	79.4559
112)	4-Chlorophenyl-phenylether	(3)	8.284	204	752973	80.2959
113)	5-Nitro-o-toluidine	(3)	8.296	152	565797	82.8399
114)	4-Nitroaniline	(3)	8.308	138	502474	80.2437
115)	4,6-Dinitro-2-methylphenol	(4)	8.332	198	339666	83.5352
117)	N-Nitrosodiphenylamine	(4)	8.386	169	1454149	81.0909

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
118)	1,2-Diphenylhydrazine	(4)	8.416	77	1998320	80.6225
120)	Tetraethyldithiopyrophosphate	(4)	8.529	97	278838	81.7129
121)	1,3,5-Trinitrobenzene	(4)	8.607	213	219629	84.5398
122)	Diallate (peak 1)	(4)	8.625	86	776159	60.7550
123)	Phorate	(4)	8.631	75	1309420	81.5142
124)	Phenacetin	(4)	8.655	108	976624	81.1598
125)	4-Bromophenyl-phenylether	(4)	8.685	248	356509	80.8179
126)	Diallate (peak 2)	(4)	8.697	86	161366	20.2663
127)	Hexachlorobenzene	(4)	8.727	284	333991	79.8377
128)	Dimethoate	(4)	8.775	87	753124	80.2445
129)	Diallate TRANS/CIS	(4)	23.156	86	937525	81.0167
131)	Pentachlorophenol	(4)	8.888	266	266695	81.2386
132)	Pentachloronitrobenzene	(4)	8.900	237	153936	81.6966
133)	4-Aminobiphenyl	(4)	8.900	169	1268662	80.3635
134)	Pronamide	(4)	8.960	173	742443	81.7210
135)	Phenanthrene-d10	(4)	9.044	188	530039	20.0000
136)	Dinoseb	(4)	9.050	211	462548	82.7217
137)	Phenanthrene	(4)	9.068	178	2431912	80.3210
138)	Anthracene	(4)	9.110	178	2505641	82.8976
140)	Carbazole	(4)	9.241	167	2389470	81.0434
141)	Methyl parathion	(4)	9.361	109	566641	80.0797
142)	Di-n-butylphthalate	(4)	9.546	149	2832968	81.7736
143)	Parathion	(4)	9.684	109	394550	81.6045
144)	4-Nitroquinoline-1-oxide	(4)	9.696	190	275466	83.9454
146)	Isodrin	(4)	9.911	193	270624	81.3753
147)	Fluoranthene	(4)	10.037	202	2460688	84.0918
152)	Benzidine	(5)	10.162	184	5103061	238.4003
154)	Pyrene	(5)	10.222	202	2626897	79.0348
158)	p-Dimethylaminoazobenzene	(5)	10.474	225	524405	80.2484
159)	Chlorobenzilate	(5)	10.515	139	835766	81.0063
160)	3,3'-Dimethylbenzidine	(5)	10.749	212	1463108	78.5992
161)	Butylbenzylphthalate	(5)	10.773	149	1298893	81.0091
162)	2-Acetylaminofluorene	(5)	10.970	181	1136135	80.7813
164)	3,3'-Dichlorobenzidine	(5)	11.233	252	777069	81.4535
165)	4,4'-Methylenebis(2-Chloroanil	(5)	11.239	231	415396	81.4276
166)	Benzo(a)anthracene	(5)	11.251	228	2214708	84.7414
167)	Pyrene-d10	(5)	10.204	212	613860	20.0000
168)	Chrysene	(5)	11.287	228	2158345	80.6335
169)	bis(2-Ethylhexyl)phthalate	(5)	11.311	149	1747820	80.7283
189)	6-Methylchrysene	(5)	11.742	242	1566457	81.3561
190)	Dibenz(a,h)acridine	(6)	13.830	279	1384708	84.5394
170)	Di-n-octylphthalate	(6)	11.999	149	2885896	83.1630
191)	Dibenz(a,j)acridine	(6)	13.889	279	1463969	81.9462

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

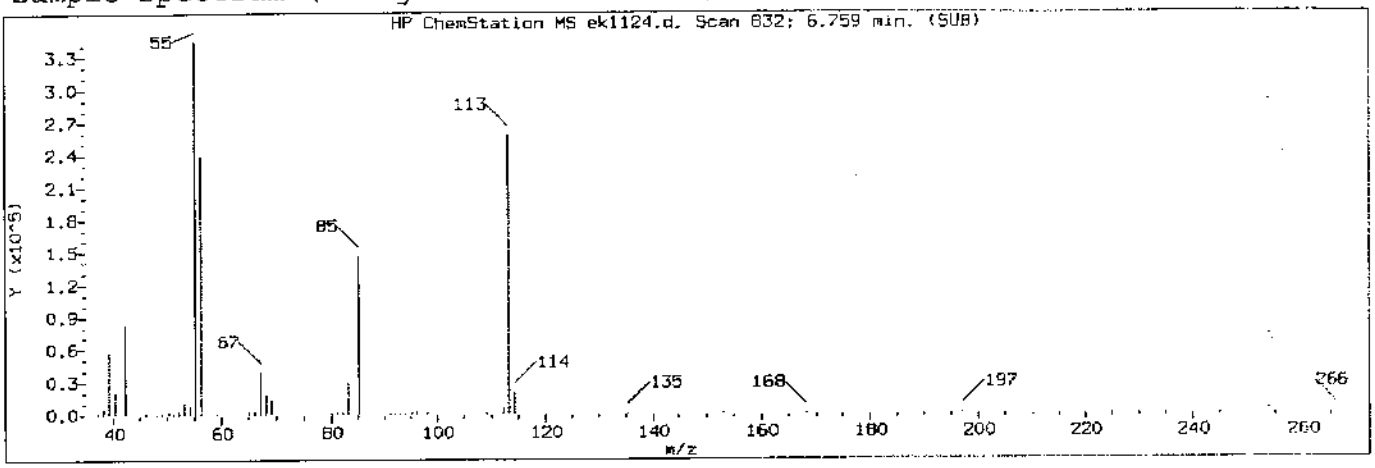
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

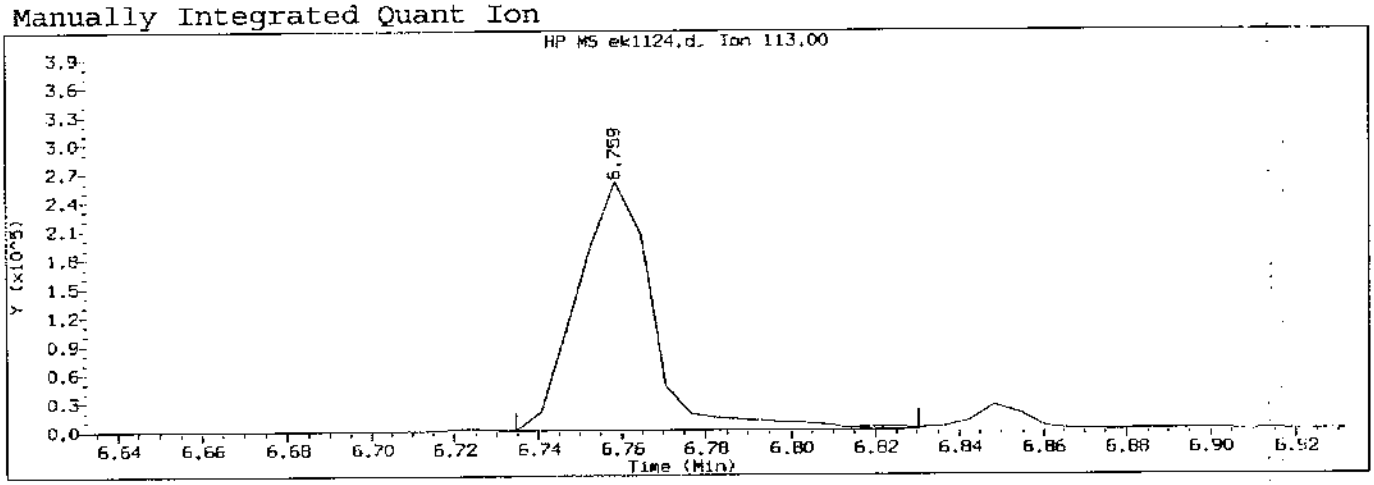
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
171)	7,12-Dimethylbenz[a]anthracene	(6)	12.382	256	960506	83.3536
172)	Benzo(b)fluoranthene	(6)	12.382	252	2157380M	90.4630
194)	Quinoline	(2)	6.669	129	1480994	80.6387
173)	Benzo(k)fluoranthene	(6)	12.418	252	1986277M	84.6723
174)	Benzo(a)pyrene	(6)	12.747	252	1829996	84.6811
175)	Perylene-d12	(6)	12.807	264	389792	20.0000
202)	NDPA as diphenylamine	(4)	8.386	169	1454149	81.0909
176)	3-Methylcholanthrene	(6)	13.172	268	929237	82.3073
177)	Indeno(1,2,3-cd)pyrene	(6)	14.099	276	1872114	85.7340
178)	Dibenz(a,h)anthracene	(6)	14.135	278	1603515	85.2096
206)	Indene	(1)	5.454	115	1117624	81.2478
179)	Benzo(g,h,i)perylene	(6)	14.422	276	1587383	85.0328
9)	2-Fluorophenol	(1)	3.935	112	676778	81.8111
14)	Phenol-d5	(1)	4.892	99	981541	82.2671
15)	Phenol-d6	(1)	4.892	99	981541	82.2671
38)	Nitrobenzene-d5	(2)	5.730	82	868680	81.2724
78)	2-Fluorobiphenyl	(3)	7.279	172	1506180	79.6574
119)	2,4,6-Tribromophenol	(3)	8.476	330	153582	80.3367
156)	Terphenyl-d14	(5)	10.354	244	1520819	81.0278

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

Compound Number	:	63
Compound Name	:	Caprolactam
Scan Number	:	832
Retention Time (minutes)	:	6.759
Quant Ion	:	113
Area (flag)	:	324575 M
Concentration (ng/ul)	:	81.3346
Integration start scan	:	827 Integration stop scan: 843
Y at integration start	:	50 Y at integration end: 50

Reason for manual integration (circle one): missed peak (improper integration)

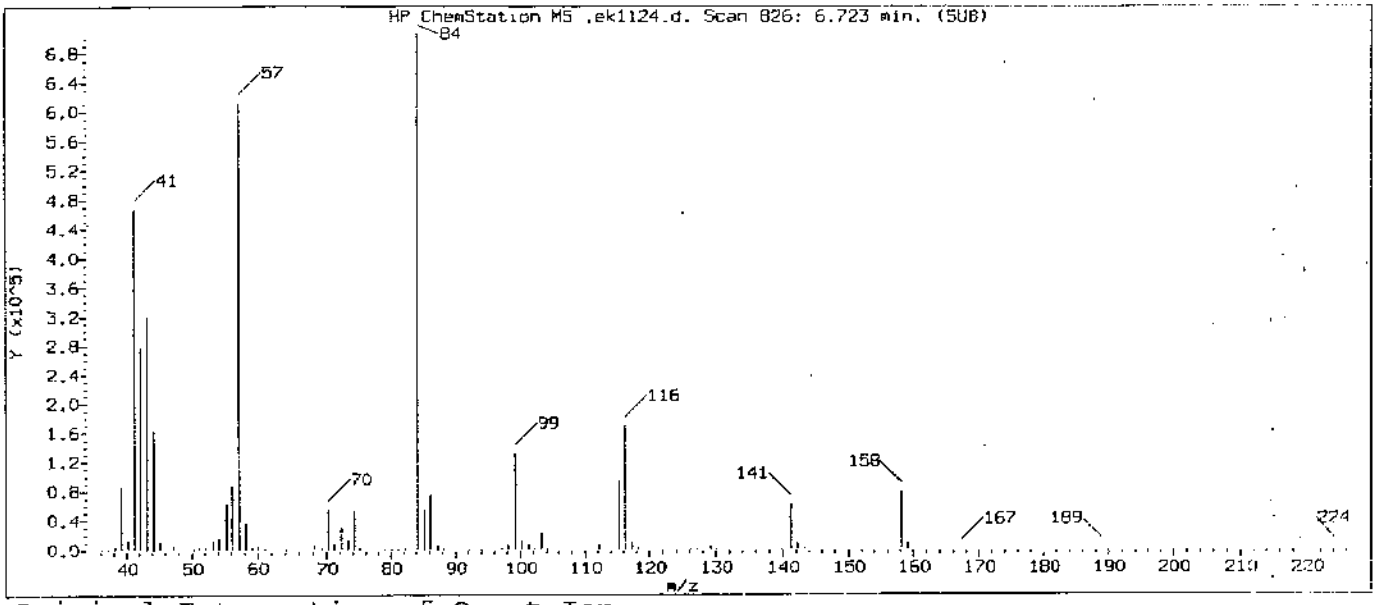
Analyst responsible for change: [signature] 11/23/11

GC/MS audit/management approval: [signature] NOV 25 2011 PCH89 8657

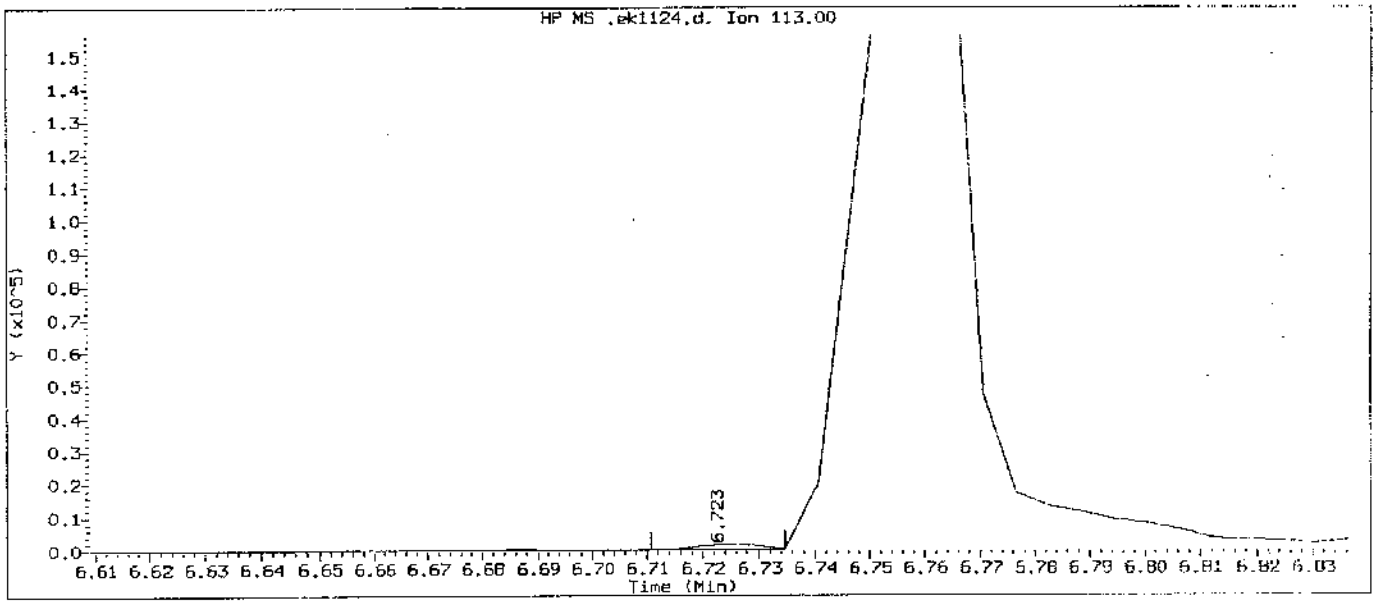
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1124.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:04
Date, time and analyst ID of latest file update: 23-Nov-2011 08:04 msw02109

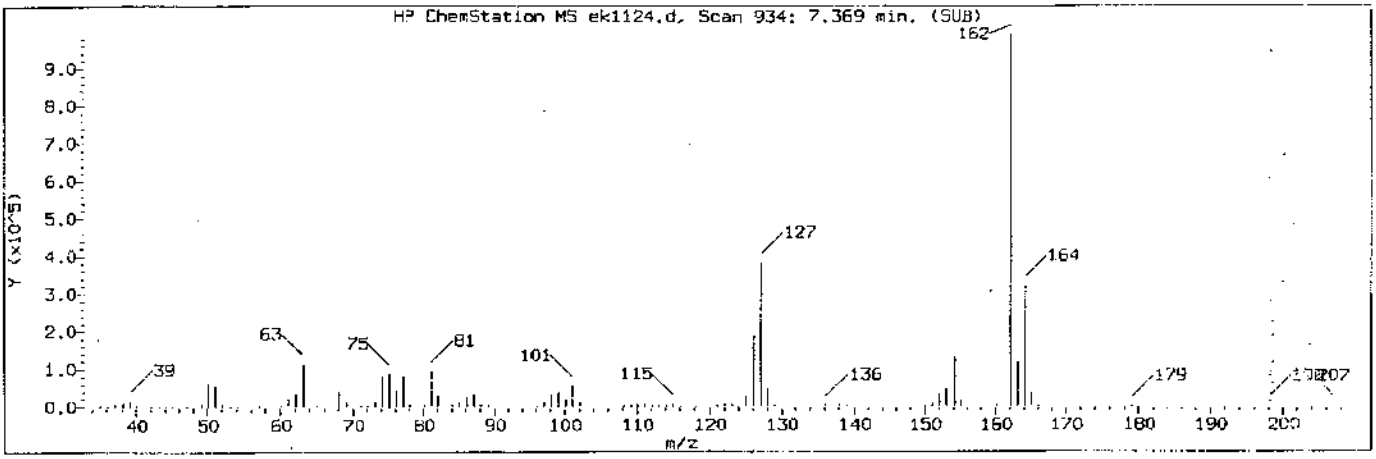
Sample Name: SSTD080 Lab Sample ID: STD3191

Compound Number : 63
Compound Name : Caprolactam
Scan Number : 826
Retention Time (minutes): 6.723
Quant Ion : 113
Area : 1316
Concentration (ng/ul) : 0.8592
Integration start scan : 823 Integration stop scan: 827
Y at integration start : 0 Y at integration end: 38

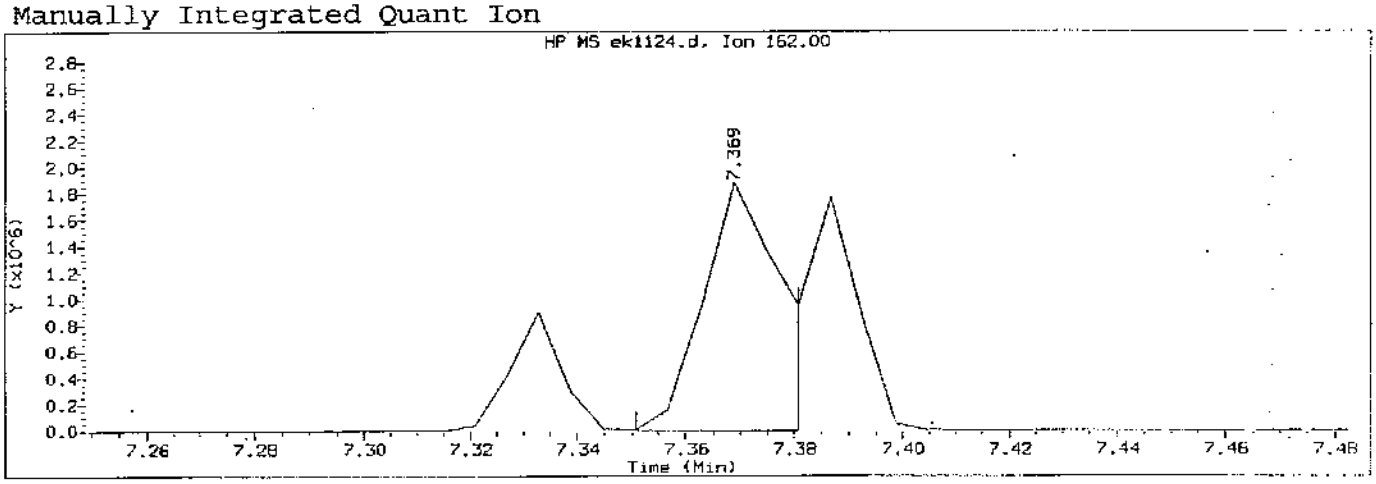
PCH09 8658

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1124.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

Compound Number : 84
Compound Name : 2-Chloronaphthalene
Scan Number : 934
Retention Time (minutes): 7.369
Quant Ion : 162
Area (flag) : 1901536 M
Concentration (ng/ul) : 84.9488
Integration start scan : 930 Integration stop scan: 935
Y at integration start : 641 Y at integration end: 503

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: _____

GC/MS audit/management approval: _____

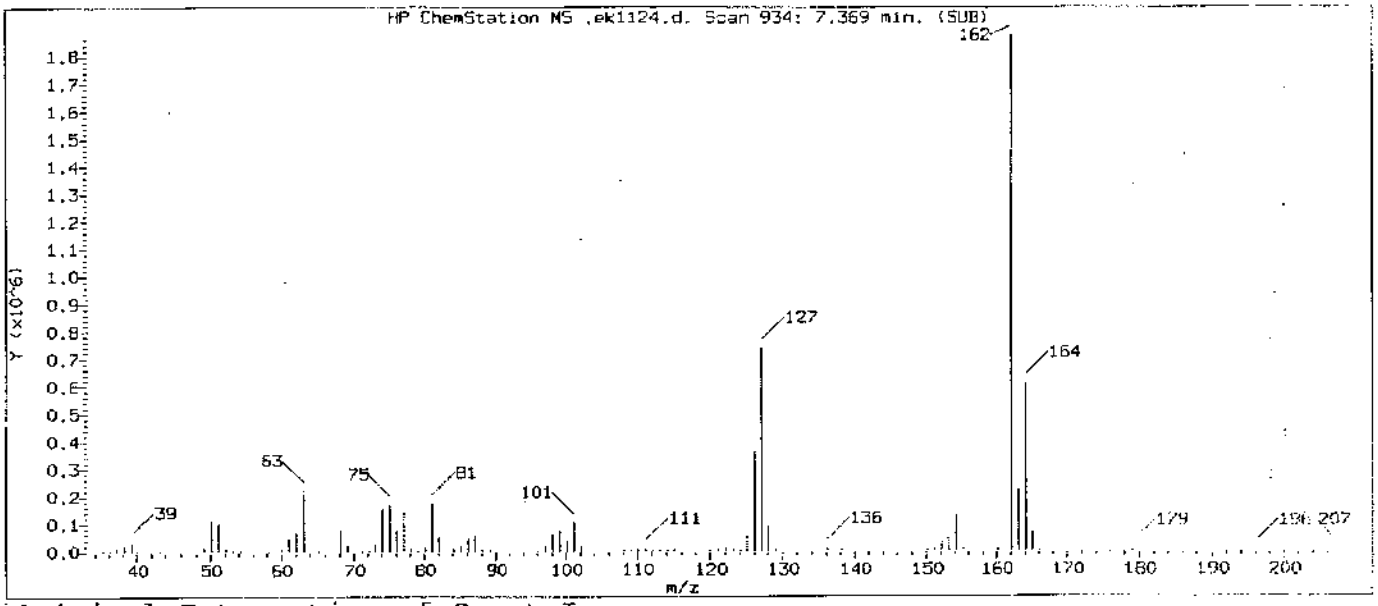
PCH89 0659

NOV 25 2011

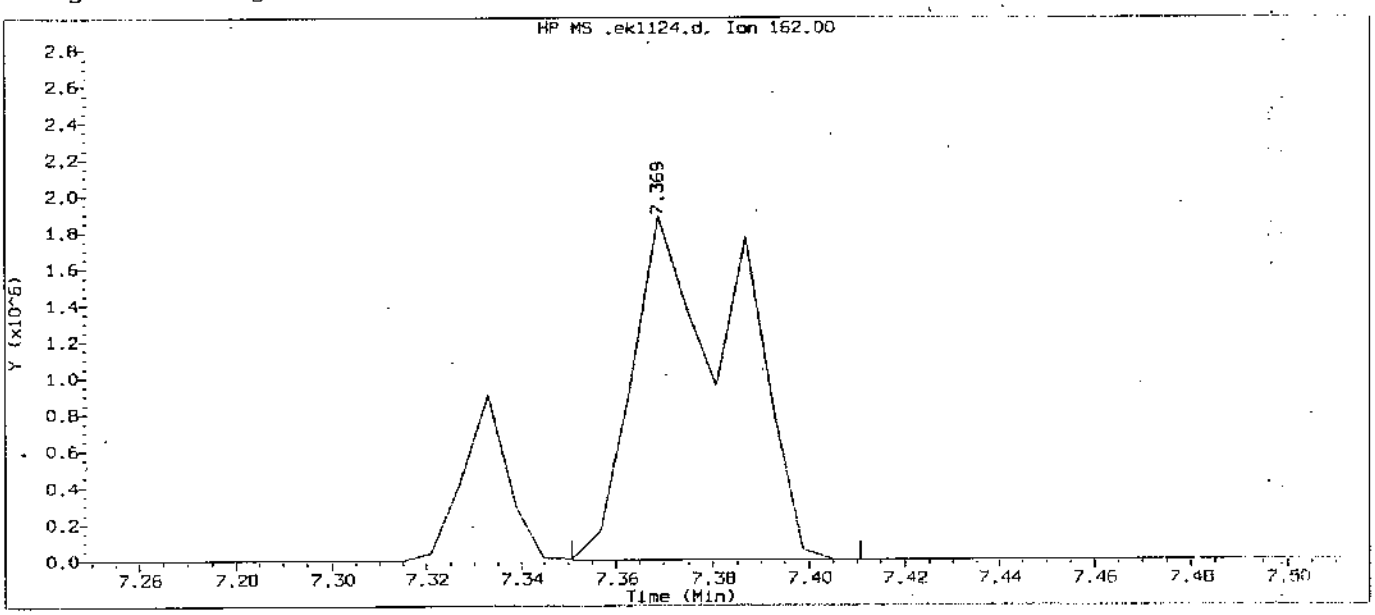
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1124.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newal11
Calibration date and time: 23-NOV-2011 08:04
Date, time and analyst ID of latest file update: 23-Nov-2011 08:04 msw02109

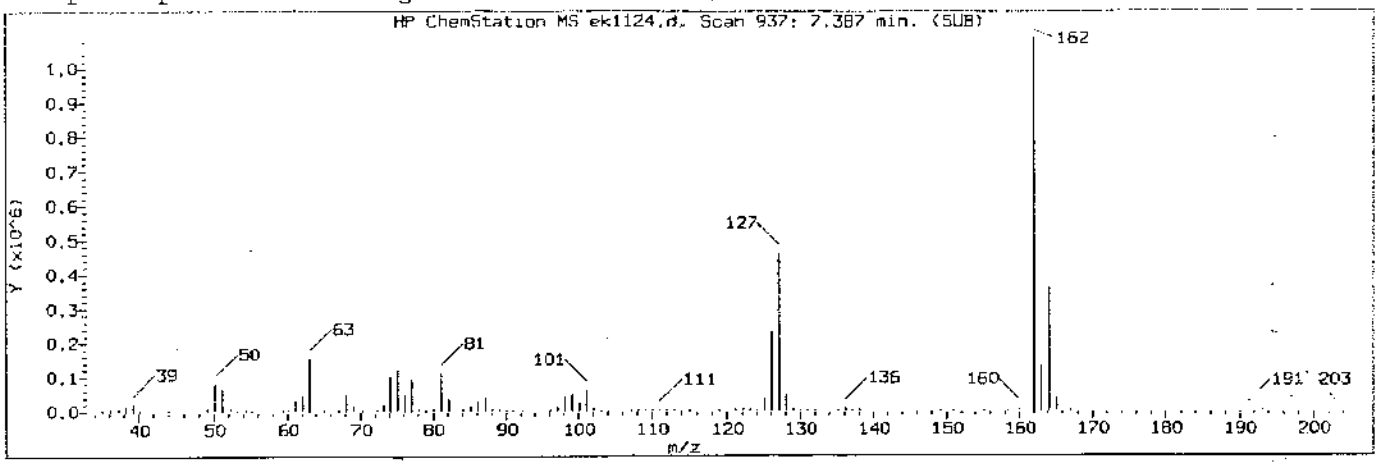
Sample Name: SSTD080 Lab Sample ID: STD3191

Compound Number : 84
Compound Name : 2-Chloronaphthalene
Scan Number : 934
Retention Time (minutes): 7.369
Quant Ion : 162
Area : 2852838
Concentration (ng/ul) : 86.1111
Integration start scan : 930 Integration stop scan: 940
Y at integration start : 641 Y at integration end: 365

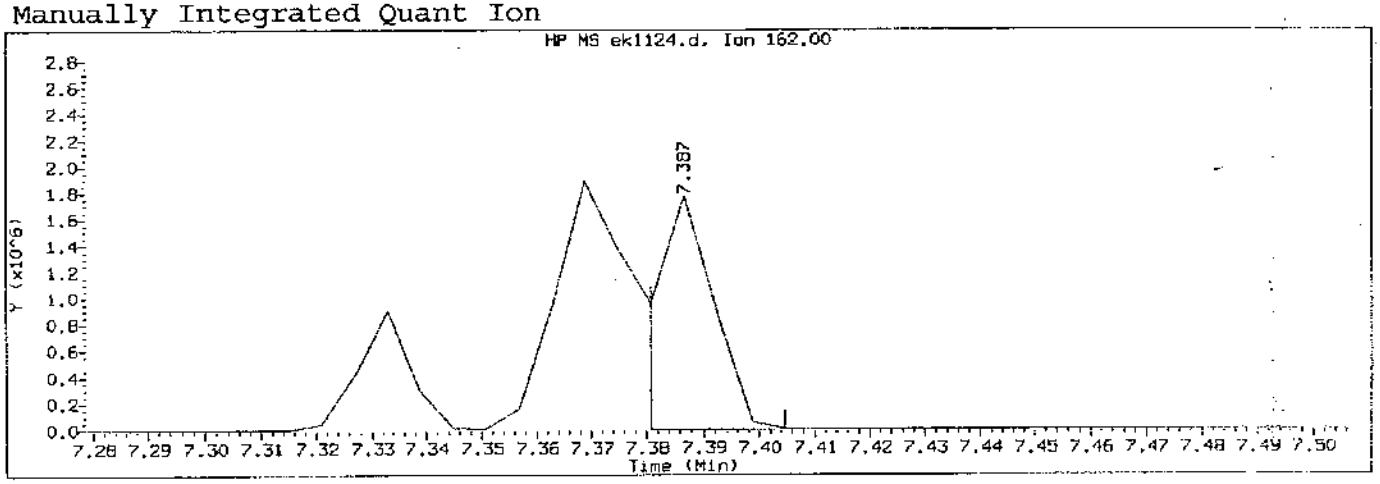
PCH89 8568

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1124.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

Compound Number	: 85		
Compound Name	: 1-Chloronaphthalene		
Scan Number	: 937		
Retention Time (minutes)	: 7.387		
Quant Ion	: 162		
Area (flag)	: 1292311	M	
Concentration (ng/ul)	: 75.0160		
Integration start scan	: 935	Integration stop scan:	939
Y at integration start	: 1501	Y at integration end:	1501

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Matthew Barton 11/25/11

GC/MS audit/management approval: Matthew E. Barton

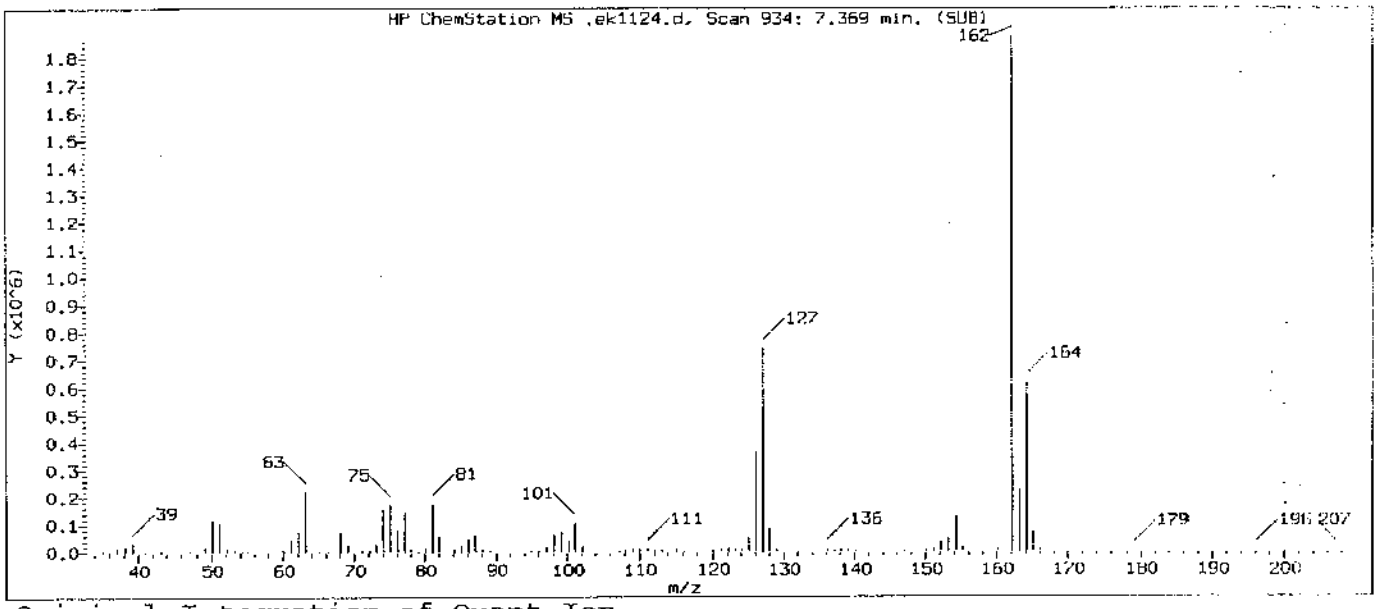
NOV 25 2011

PCH89 8661

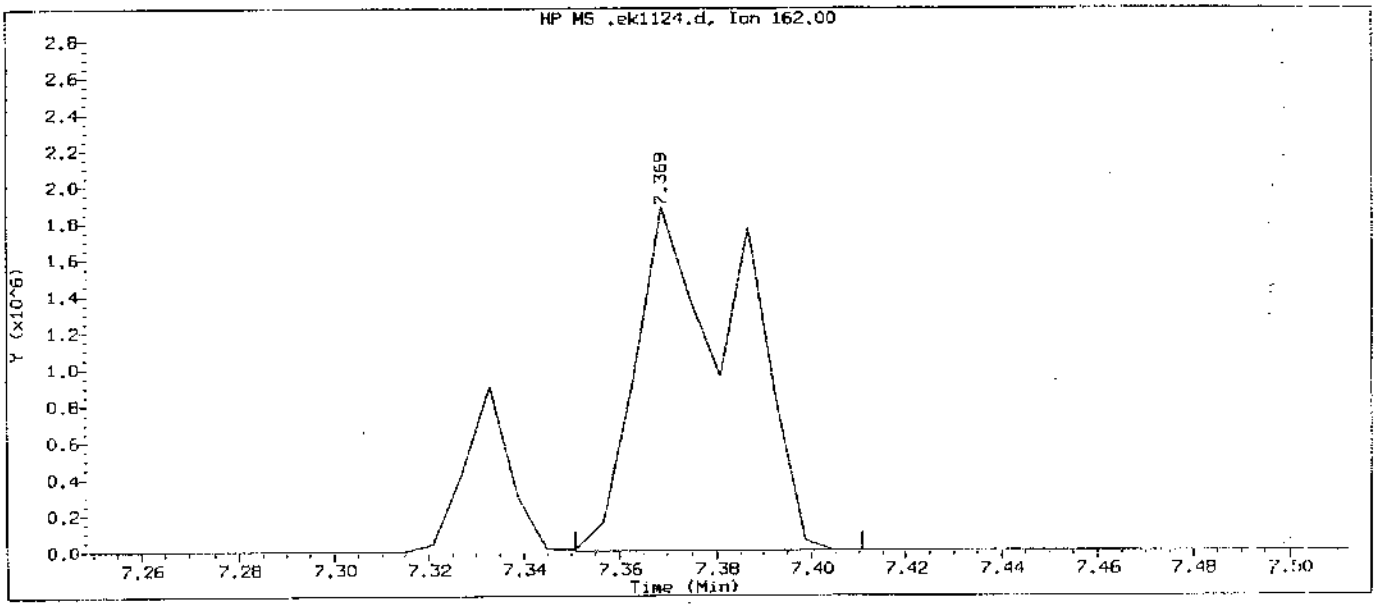
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1124.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:04
Date, time and analyst ID of latest file update: 23-Nov-2011 08:04 msw02109

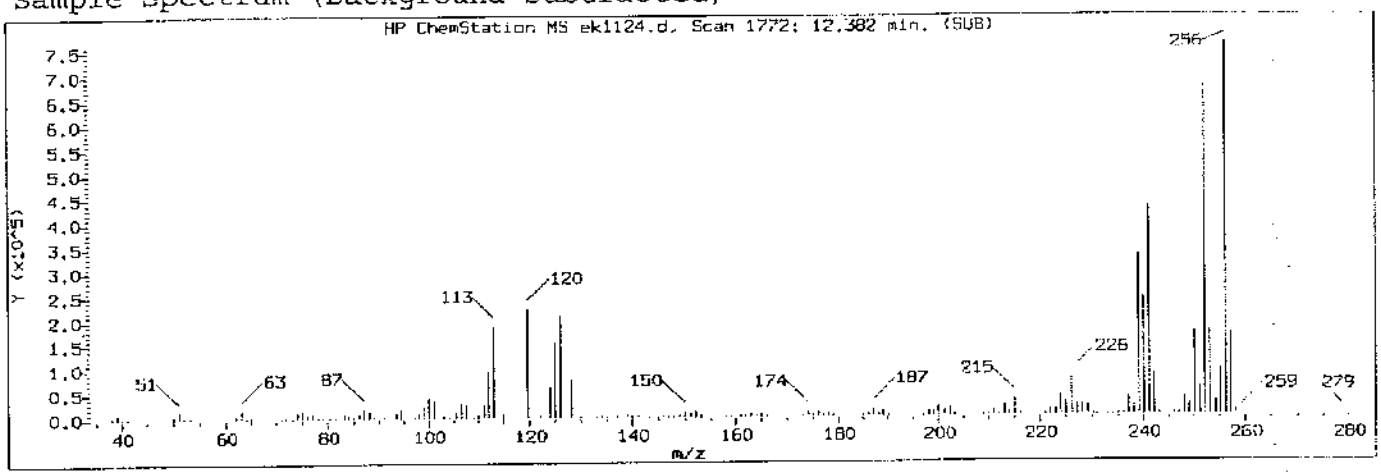
Sample Name: SSTD080 Lab Sample ID: STD3191

Compound Number	: 85		
Compound Name	: 1-Chloronaphthalene		
Scan Number	: 934		
Retention Time (minutes)	: 7.369		
Quant Ion	: 162		
Area	: 2851668		
Concentration (ng/ul)	: 92.0639		
Integration start scan	: 930	Integration stop scan: 940	
Y at integration start	: 1205	Y at integration end: 453	

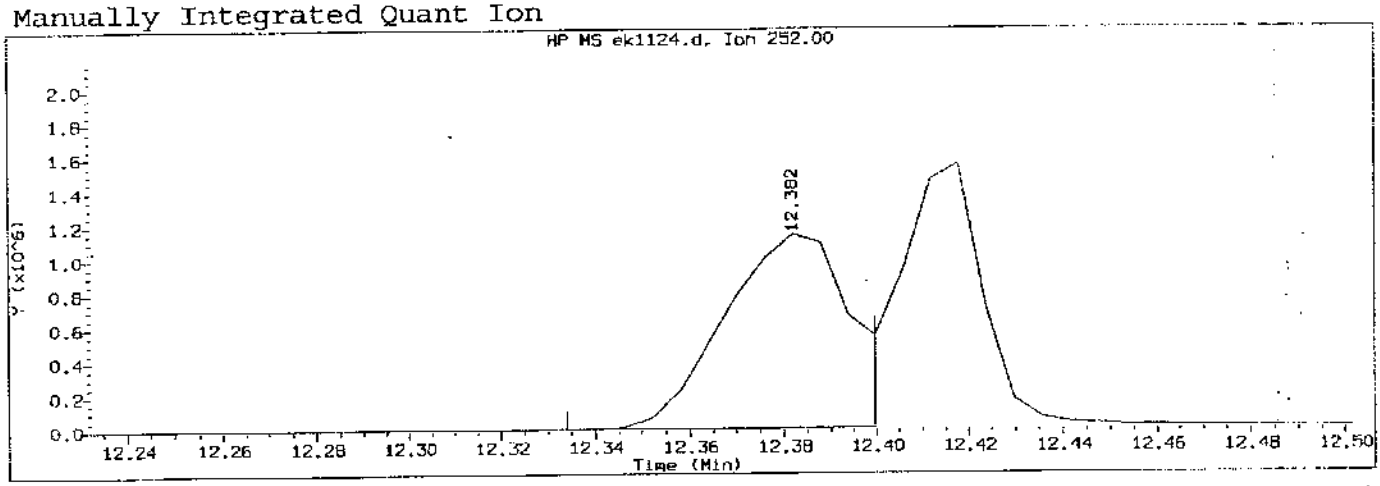
PCH09 8662

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1124.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

Compound Number	:	172
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1772
Retention Time (minutes)	:	12.382
Quant Ion	:	252
Area (flag)	:	2157380 M
Concentration (ng/ul)	:	90.4630
Integration start scan	:	1763 Integration stop scan: 1774
Y at integration start	:	0 Y at integration end: 571

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 11/23/11

GC/MS audit/management approval:

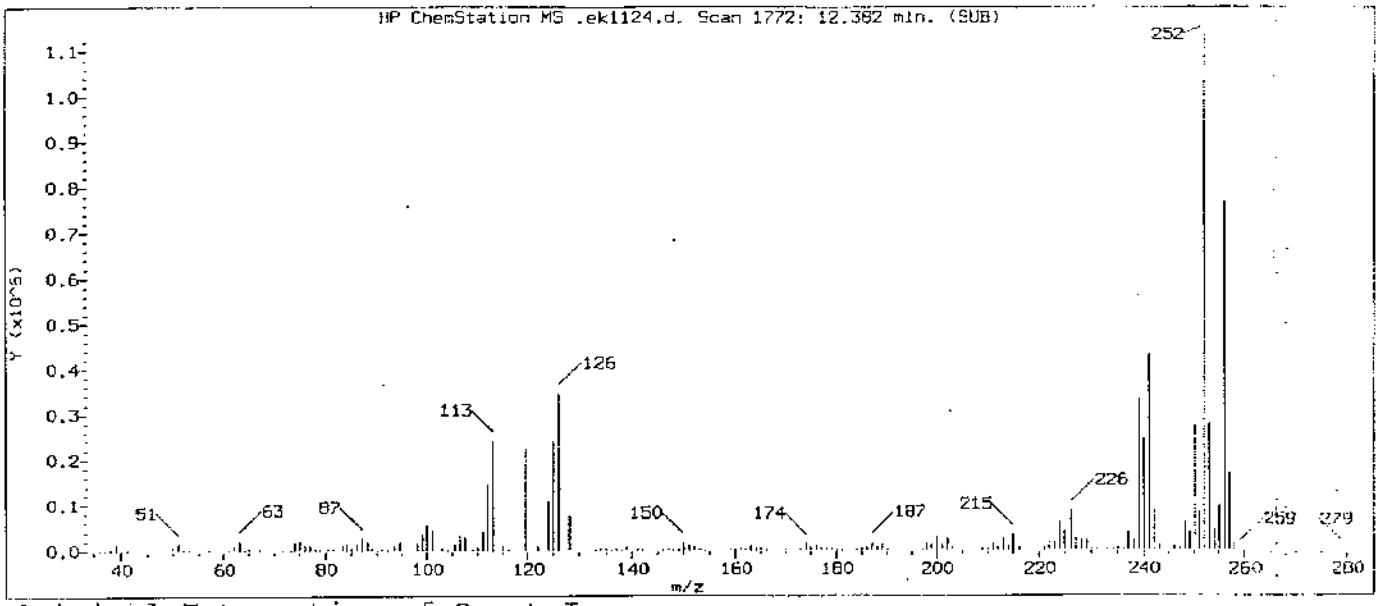
PCH09 0663

NOV 25 2011

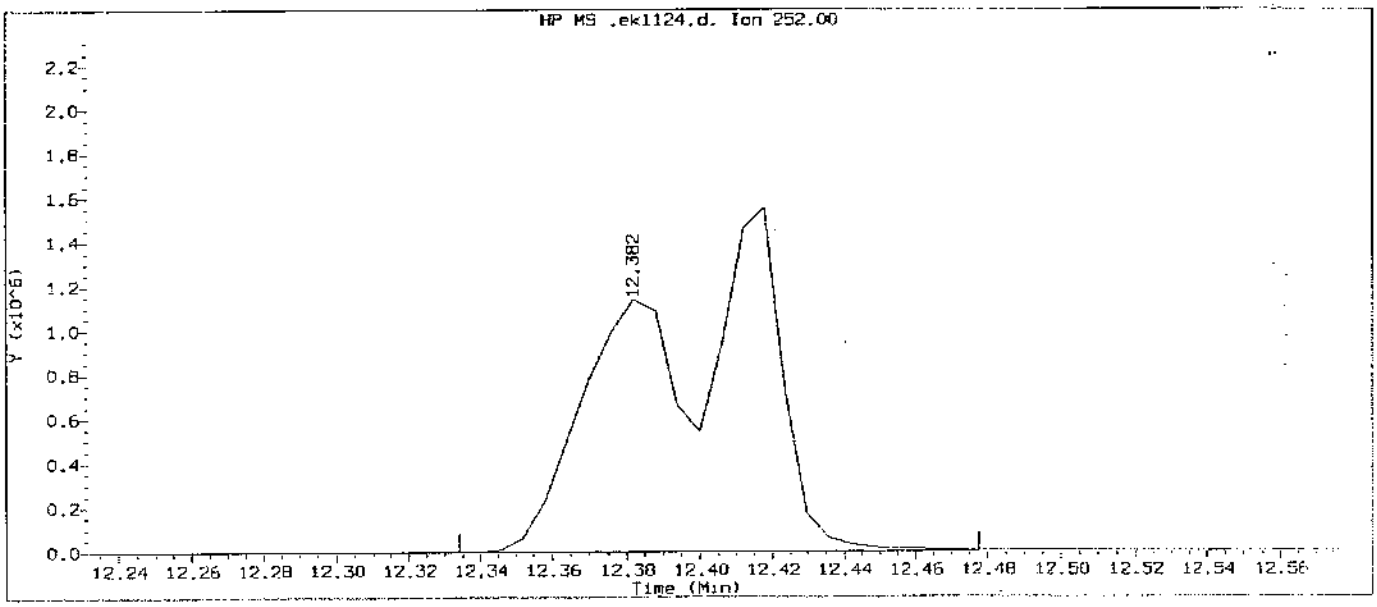
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1124.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:04
Date, time and analyst ID of latest file update: 23-Nov-2011 08:04 msw02109

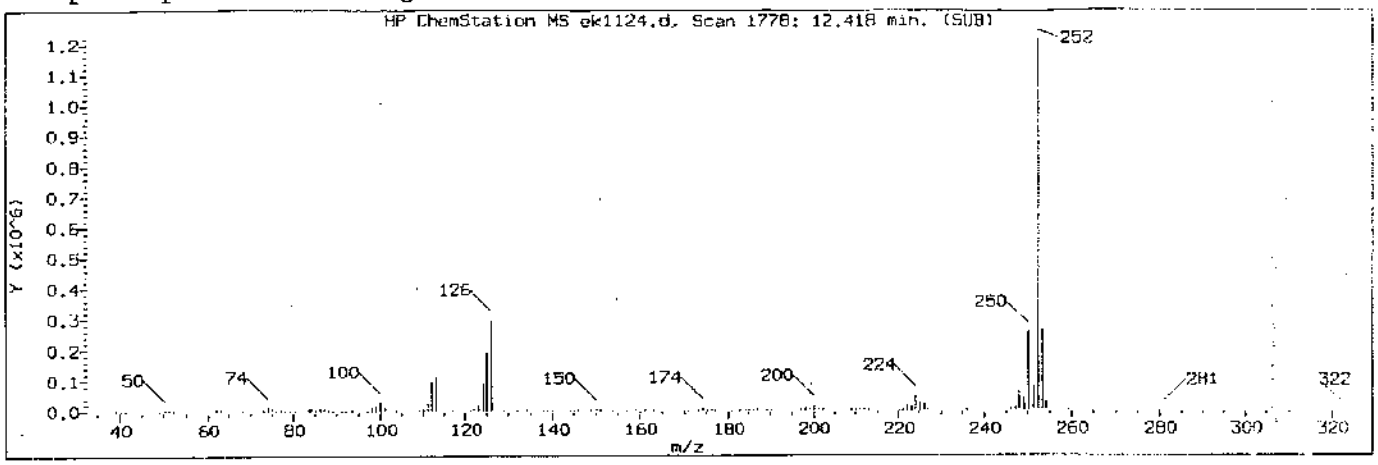
Sample Name: SSTD080 Lab Sample ID: STD3191

Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1772
Retention Time (minutes): 12.382
Quant Ion : 252
Area : 3941826
Concentration (ng/ul) : 126.2706
Integration start scan : 1763 Integration stop scan: 1787
Y at integration start : 0 Y at integration end: 1246

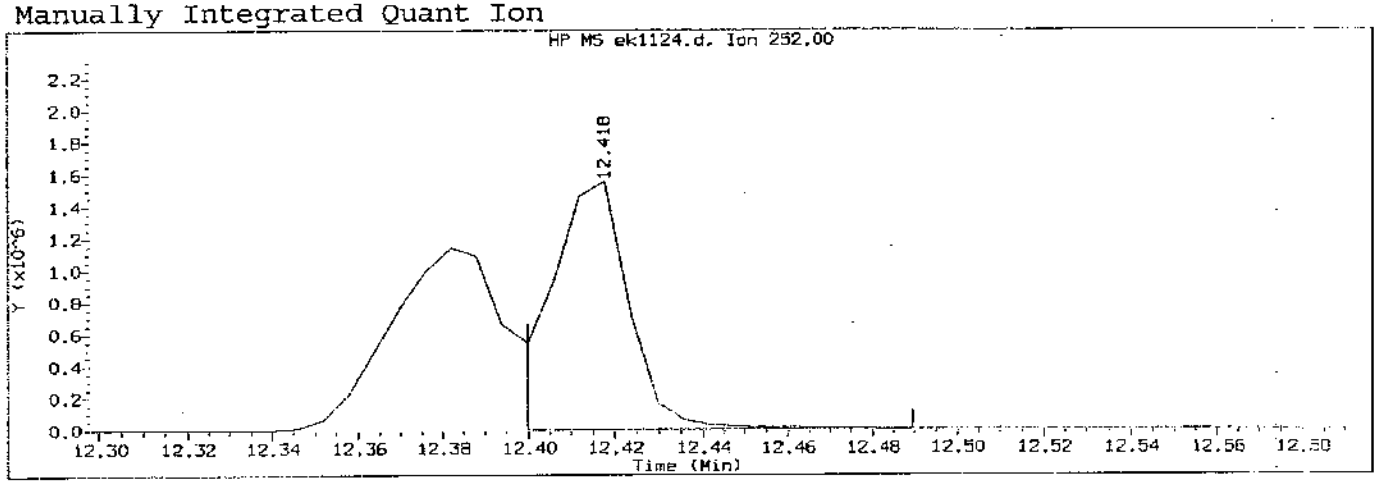
PCH89-00664

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1124.d, generated on 11/23/2011 at 08:26

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

Compound Number : 173
Compound Name : Benzo(k)fluoranthene
Scan Number : 1778
Retention Time (minutes): 12.418
Quant Ion : 252
Area (flag) : 1986277 M
Concentration (ng/ul) : 84.6723
Integration start scan : 1774 Integration stop scan: 1789
Y at integration start : 399 Y at integration end: 399

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: _____

GC/MS audit/management approval: _____

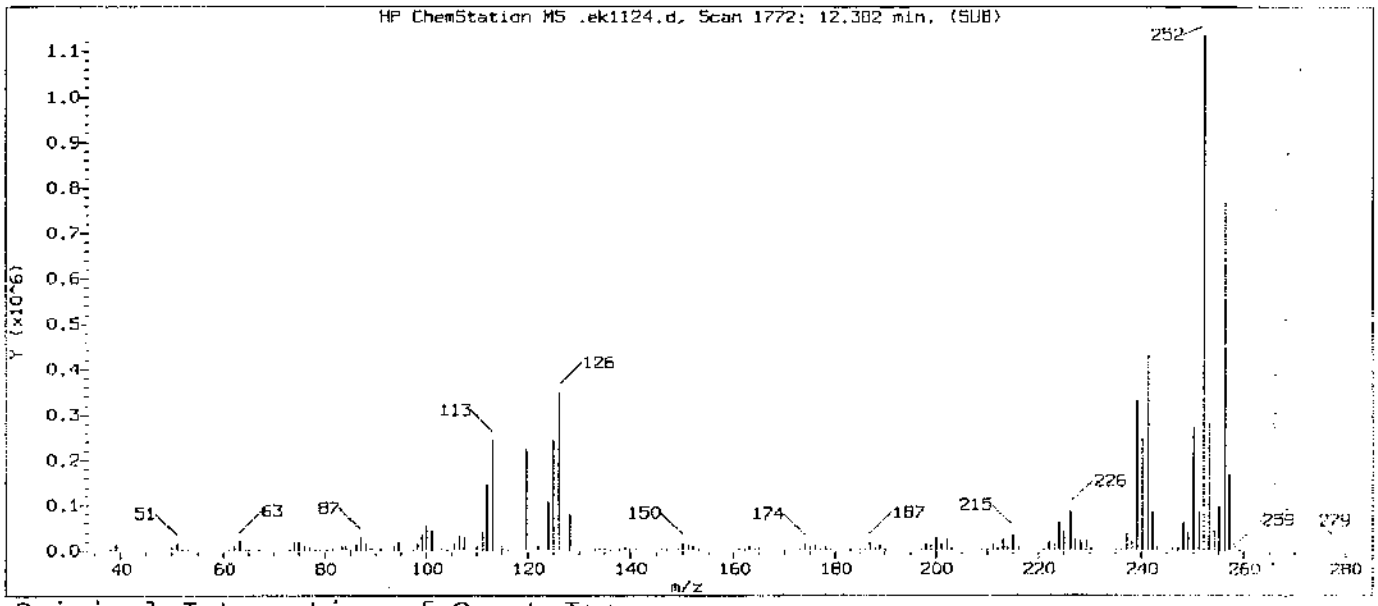
NOV 25 2011

PCH09 8665

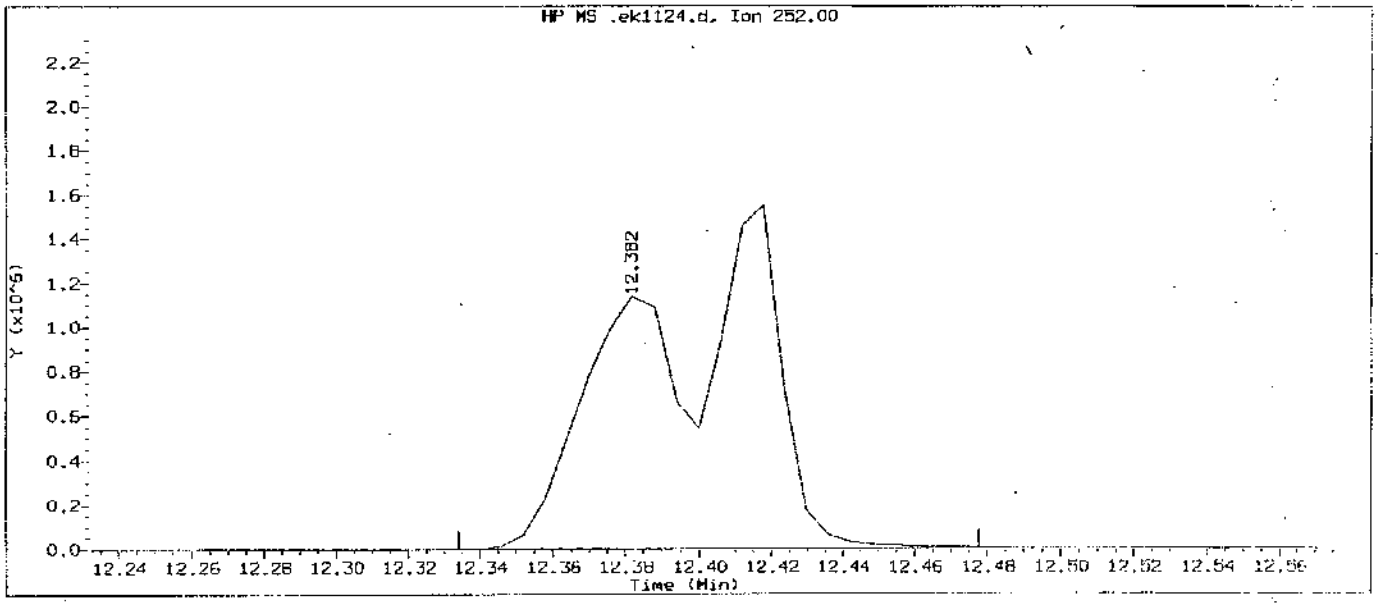
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1124.d, generated on 11/23/2011 at 08:26

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1124.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:07 Analyst ID: jrr02820

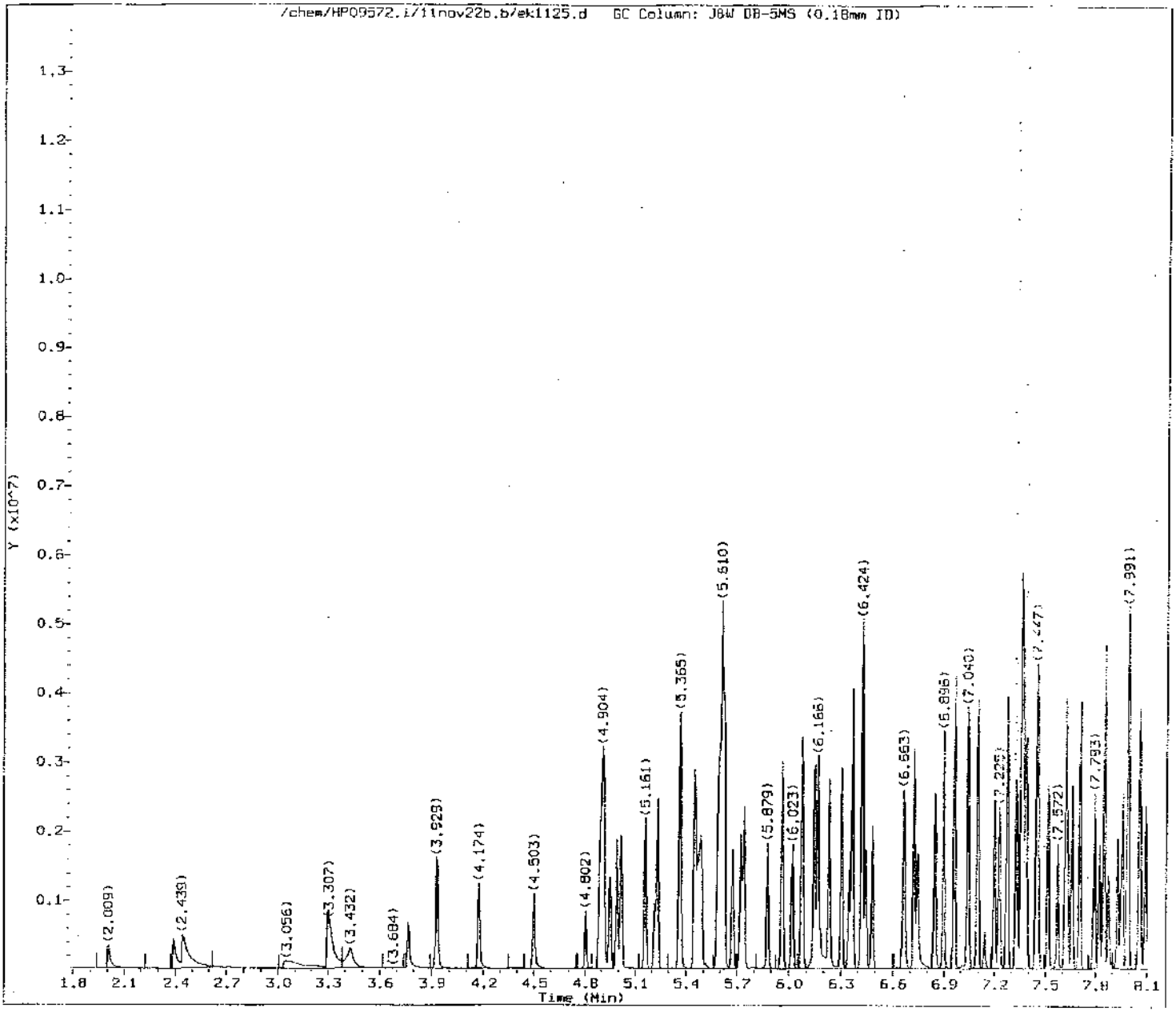
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:04
Date, time and analyst ID of latest file update: 23-Nov-2011 08:04 msw02109

Sample Name: SSTD080 Lab Sample ID: STD3191

Compound Number : 173
Compound Name : Benzo(k)fluoranthene
Scan Number : 1772
Retention Time (minutes): 12.382
Quant Ion : 252
Area : 3941994
Concentration (ng/ul) : 116.6332
Integration start scan : 1763 Integration stop scan: 1787
Y at integration start : 0 Y at integration end: 1207

PCH89 8666

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1124.d, generated on 11/23/2011 at 08:26



Quant Report

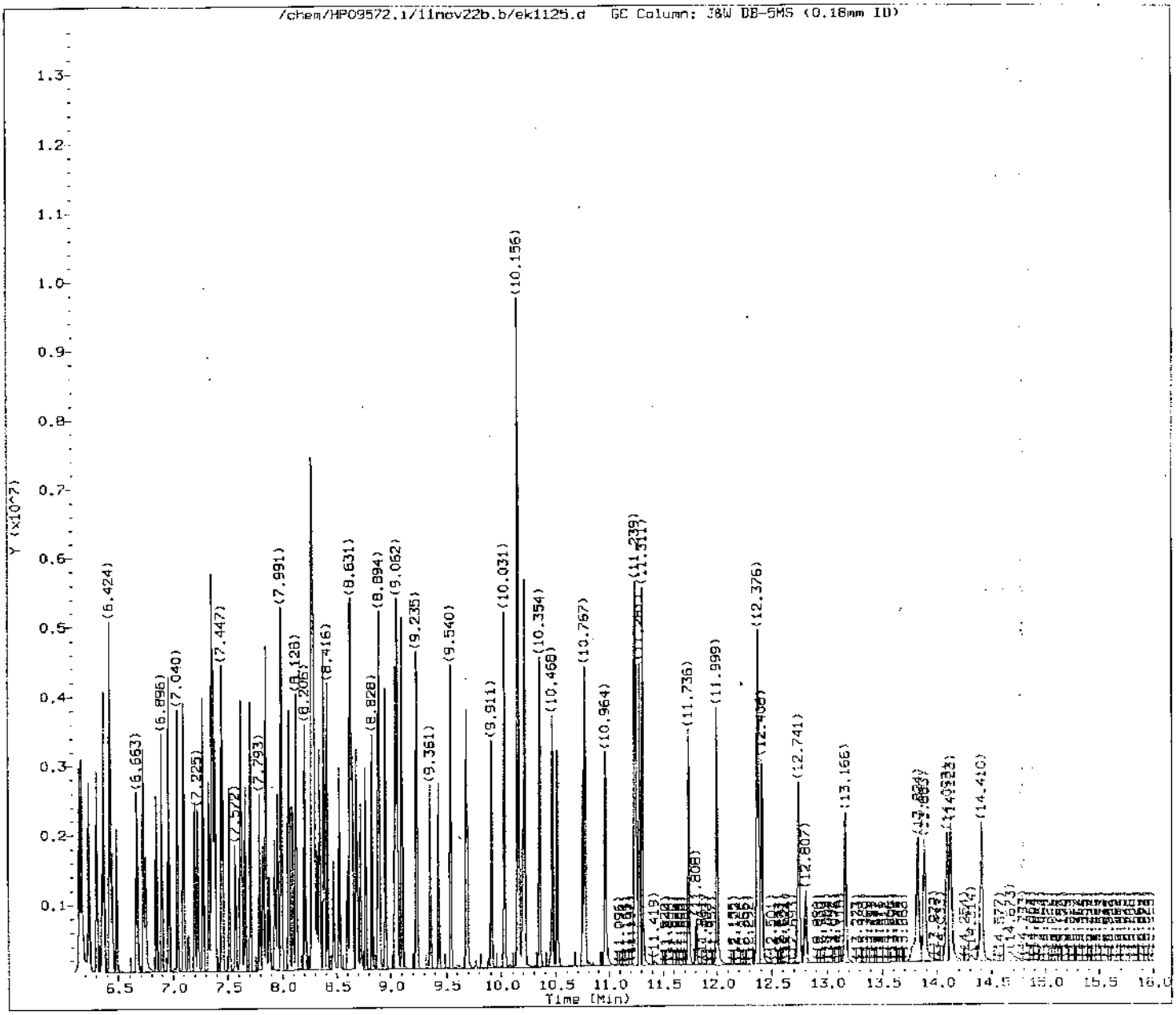
Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1125.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:31 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD050 Lab Sample ID: STD3191

CH09 8667



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1125.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:31 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD050 Lab Sample ID: STD3191

msw 12/7/11

PCH89 8668

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1125.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:31 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD050 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.009	88	170199	50.3424
2)	N-Nitrosodimethylamine	(1)	2.386	74	299650	49.4524
3)	Pyridine	(1)	2.439	79	487005	48.1425
5)	2-Picoline	(1)	3.301	93	511656	48.9548
6)	N-Nitrosomethylethylamine	(1)	3.432	88	256468	48.8780
7)	Methyl methanesulfonate	(1)	3.767	80	252692	49.1408
10)	N-Nitrosodiethylamine	(1)	4.174	102	258545	49.0698
11)	Ethyl methanesulfonate	(1)	4.503	109	250079	49.5329
13)	Aniline	(1)	4.910	93	830958	48.5693
16)	Phenol	(1)	4.904	94	737639	49.0445
18)	bis(2-Chloroethyl)ether	(1)	4.988	93	533026	48.9353
19)	2-Chlorophenol	(1)	5.012	128	469730	48.8011
20)	1,3-Dichlorobenzene	(1)	5.161	146	448702	49.1909
21)	1,4-Dichlorobenzene-d4	(1)	5.215	152	114946	20.0000
22)	1,4-Dichlorobenzene	(1)	5.233	146	464277	49.2981
24)	Benzyl alcohol	(1)	5.359	108	357647	48.8202
25)	1,2-Dichlorobenzene	(1)	5.365	146	432735	48.7237
26)	2-Methylphenol	(1)	5.466	108	476786	49.0556
27)	2,2'-oxybis(1-Chloropropane)	(1)	5.490	45	869337	50.0818
28)	bis(2-Chloroisopropyl)ether	(1)	5.490	45	869337	50.0818
29)	N-Nitrosopyrrolidine	(1)	5.586	100	298535	49.2151
30)	Acetophenone	(1)	5.598	105	687666	48.9051
31)	N-Nitroso-di-n-propylamine	(1)	5.610	70	424375	49.3920
32)	N-Nitrosomorpholine	(1)	5.622	56	370221	48.8780
33)	4-Methylphenol	(1)	5.610	108	570601	49.1740
34)	o-Toluidine	(1)	5.628	106	807615	49.2354
37)	Hexachloroethane	(1)	5.676	117	177544	48.9228
39)	Nitrobenzene	(2)	5.742	77	581480	49.6576
40)	N-Nitrosopiperidine	(2)	5.879	114	263735	49.3702
41)	Isophorone	(2)	5.963	82	1072233	49.2147
42)	2-Nitrophenol	(2)	6.023	139	261118	49.1125
44)	2,4-Dimethylphenol	(2)	6.077	107	521522	49.7097
45)	O,O,O-triethylphosphorothioate	(2)	6.148	198	219213	49.6152
46)	bis(2-Chloroethoxy)methane	(2)	6.166	93	642580	45.3529
47)	Benzoic acid	(2)	6.178	105	465198	48.5440
49)	2,4-Dichlorophenol	(2)	6.232	162	385776	49.2901
50)	1,2,4-Trichlorobenzene	(2)	6.304	180	404278	49.8221
52)	Naphthalene-d8	(2)	6.352	136	522573	20.0000
53)	Naphthalene	(2)	6.370	128	1415709	49.1534
56)	4-Chloroaniline	(2)	6.424	127	638652	49.8545
57)	2,6-Dichlorophenol	(2)	6.430	162	385047	49.6908
58)	Hexachloropropene	(2)	6.447	213	201532	48.7686
60)	Hexachlorobutadiene	(2)	6.483	225	169858	49.6892

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1125.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:31 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD050 Lab Sample ID: STD3191

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
63) Caprolactam	(2)	6.747	113	211949	49.3943
64) N-Nitrosodi-n-butylamine	(2)	6.723	84	405264	45.7346
68) 4-Chloro-3-methylphenol	(2)	6.842	107	484260	49.3156
69) Safrole	(2)	6.896	162	375242	49.6251
70) 2-Methylnaphthalene	(2)	6.962	142	953930	49.0953
71) 1-Methylnaphthalene	(2)	7.040	142	901394	49.4689
72) Hexachlorocyclopentadiene	(3)	7.094	237	176369	49.1763
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.100	216	367153	50.2538
74) cis-Isosafrole	(3)	7.141	162	66398	5.4248
75) 2,4,6-Trichlorophenol	(3)	7.201	196	276082	49.0152
77) 2,4,5-Trichlorophenol	(3)	7.231	196	318828	50.0086
79) trans-Isosafrole	(3)	7.333	162	392062	44.3207
80) Isosafrole	(3)	7.333	162	392062	49.7986
83) 1,1'-Biphenyl	(3)	7.357	154	1158618	50.0009
84) 2-Chloronaphthalene	(3)	7.369	162	987843	43.7185
85) 1-Chloronaphthalene	(3)	7.387	162	896775	49.6218
88) Diphenyl ether	(3)	7.447	170	621917	50.2528
89) 2-Nitroaniline	(3)	7.458	138	350804	50.4281
90) 1,4-Naphthoquinone	(3)	7.518	158	413850	50.6911
91) 1,4-Dinitrobenzene	(3)	7.572	168	179257	49.9003
92) Dimethylphthalate	(3)	7.620	163	1059387	50.0433
93) 1,3-Dinitrobenzene	(3)	7.632	168	205230	49.5517
94) 2,6-Dinitrotoluene	(3)	7.662	165	262118	49.6926
95) Acenaphthylene	(3)	7.710	152	1404972	50.8246
97) 3-Nitroaniline	(3)	7.793	138	302655	49.4710
98) Acenaphthene-d10	(3)	7.823	164	327989	20.0000
99) Acenaphthene	(3)	7.853	153	912936	49.5302
100) 2,4-Dinitrophenol	(3)	7.883	184	164216	49.8099
101) Pentachlorobenzene	(3)	7.961	250	282041	49.1285
103) 4-Nitrophenol	(3)	7.931	109	156723	47.4343
104) Dibenzofuran	(3)	7.997	168	1311114	50.4431
105) 2,4-Dinitrotoluene	(3)	7.991	165	349018	49.9458
106) 1-Naphthylamine	(3)	8.063	143	1072288	49.8124
107) 2,3,4,6-Tetrachlorophenol	(3)	8.099	232	223725	50.0092
108) 2-Naphthylamine	(3)	8.128	143	1095054	50.3072
109) Diethylphthalate	(3)	8.206	149	1067102	50.3233
110) Thionazin	(3)	8.272	107	231979	51.0351
111) Fluorene	(3)	8.278	166	1113965	50.6298
112) 4-Chlorophenyl-phenylether	(3)	8.284	204	501036	50.6000
113) 5-Nitro-o-toluidine	(3)	8.290	152	370346	51.1594
114) 4-Nitroaniline	(3)	8.302	138	325718	49.5934
115) 4,6-Dinitro-2-methylphenol	(4)	8.326	198	210089	49.3246
117) N-Nitrosodiphenylamine	(4)	8.380	169	956782	50.5284

M = Compound was manually integrated. A = User selected an alternate hit

PCH09 6670

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1125.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:31 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD050 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
118)	1,2-Diphenylhydrazine	(4)	8.416	77	1326760	50.6509
120)	Tetraethyldithiopyrophosphate	(4)	8.523	97	179501	49.9937
121)	1,3,5-Trinitrobenzene	(4)	8.601	213	132972	48.9755
122)	Diallate (peak 1)	(4)	8.625	86	510525	37.8579
123)	Phorate	(4)	8.631	75	857474	50.5457
124)	Phenacetin	(4)	8.649	108	633594	50.0299
125)	4-Bromophenyl-phenylether	(4)	8.685	248	236118	50.6493
126)	Diallate (peak 2)	(4)	8.697	86	100527	12.1203
127)	Hexachlorobenzene	(4)	8.721	284	220092	49.9999
128)	Dimethoate	(4)	8.769	87	513334	51.4708
129)	Diallate TRANS/CIS	(4)	23.156	86	611052	50.1375
131)	Pentachlorophenol	(4)	8.888	266	172915	50.0434
132)	Pentachloronitrobenzene	(4)	8.900	237	102995	51.4471
133)	4-Aminobiphenyl	(4)	8.894	169	863020	51.4519
134)	Pronamide	(4)	8.954	173	473402	49.6401
135)	Phenanthrene-d10	(4)	9.044	188	557720	20.0000
136)	Dinoseb	(4)	9.044	211	287661	49.1642
137)	Phenanthrene	(4)	9.062	178	1584287	49.7827
138)	Anthracene	(4)	9.104	178	1631362	51.0297
140)	Carbazole	(4)	9.235	167	1543901	49.8238
141)	Methyl parathion	(4)	9.361	109	378716	50.6460
142)	Di-n-butylphthalate	(4)	9.540	149	1833215	50.2168
143)	Parathion	(4)	9.684	109	254407	50.0054
144)	4-Nitroquinoline-1-oxide	(4)	9.696	190	174389	50.3783
146)	Isodrin	(4)	9.911	193	171377	49.2269
147)	Fluoranthene	(4)	10.031	202	1617215	51.9989
152)	Benzidine	(5)	10.156	184	3318801	148.4781
154)	Pyrene	(5)	10.216	202	1730152	49.7452
158)	p-Dimethylaminoazobenzene	(5)	10.473	225	343766	50.1557
159)	Chlorobenzilate	(5)	10.509	139	533083	49.4835
160)	3,3'-Dimethylbenzidine	(5)	10.749	212	938081	48.5593
161)	Butylbenzylphthalate	(5)	10.767	149	840633	50.0290
162)	2-Acetylaminofluorene	(5)	10.964	181	733230	49.8180
164)	3,3'-Dichlorobenzidine	(5)	11.233	252	505691	50.4420
165)	4,4'-Methylenebis(2-Chloroanil	(5)	11.239	231	266395	49.8796
166)	Benzo(a)anthracene	(5)	11.245	228	1432714	51.8398
167)	Pyrene-d10	(5)	10.198	212	643177	20.0000
168)	Chrysene	(5)	11.281	228	1427490	50.7164
169)	bis(2-Ethylhexyl)phthalate	(5)	11.311	149	1121509	49.5781
189)	6-Methylchrysene	(5)	11.736	242	1012535	50.1426
190)	Dibenz(a,h)acridine	(6)	13.824	279	886426	49.8850
170)	Di-n-octylphthalate	(6)	11.999	149	1842661	49.1772
191)	Dibenz(a,j)acridine	(6)	13.883	279	953026	49.3488

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1125.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:31 Analyst ID: jrr02820

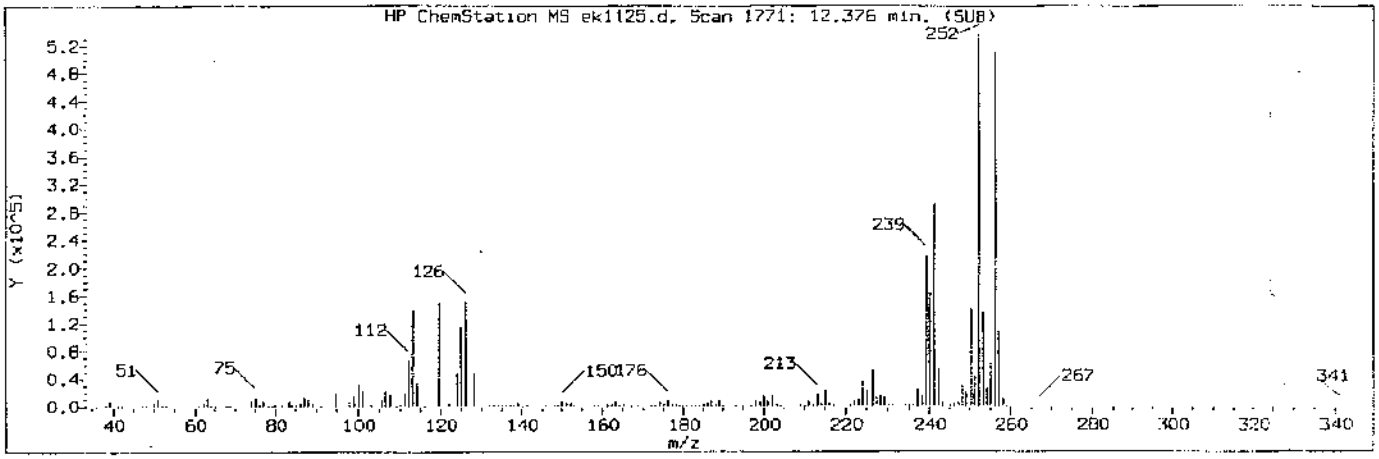
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD050 Lab Sample ID: STD3191

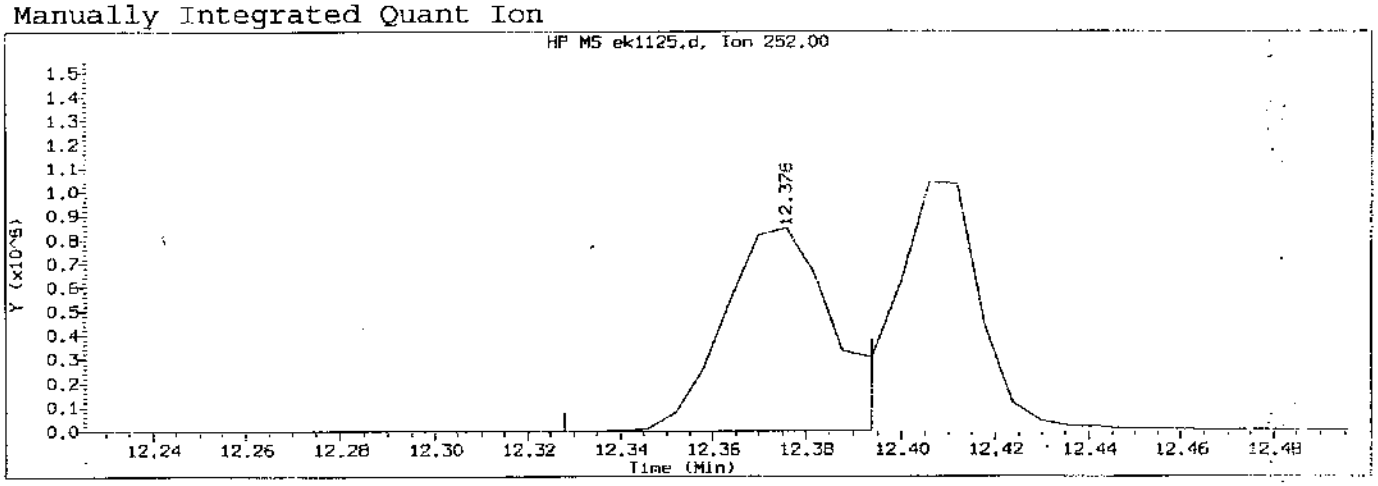
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
171)	7,12-Dimethylbenz[a]anthracene	(6)	12.376	256	618912	49.6018
172)	Benzo(b)fluoranthene	(6)	12.376	252	1384537M	52.7411
194)	Quinoline	(2)	6.663	129	977715	49.4810
173)	Benzo(k)fluoranthene	(6)	12.406	252	1318143M	51.3947
174)	Benzo(a)pyrene	(6)	12.741	252	1189118	50.5442
175)	Perylene-d12	(6)	12.807	264	423194	20.0000
202)	NDPA as diphenylamine	(4)	8.380	169	956782	50.5284
176)	3-Methylcholanthrene	(6)	13.166	268	608633	49.7406
177)	Indeno(1,2,3-cd)pyrene	(6)	14.093	276	1212309	50.9048
178)	Dibenz(a,h)anthracene	(6)	14.129	278	1055392	51.3163
206)	Indene	(1)	5.448	115	745915	49.1097
179)	Benzo(g,h,i)perylene	(6)	14.410	276	1040147	51.0510
9)	2-Fluorophenol	(1)	3.929	112	441101	48.4895
14)	Phenol-d5	(1)	4.892	99	636339	48.4981
15)	Phenol-d6	(1)	4.892	99	636339	48.4981
38)	Nitrobenzene-d5	(2)	5.724	82	568173	49.4262
78)	2-Fluorobiphenyl	(3)	7.273	172	993151	49.9571
119)	2,4,6-Tribromophenol	(3)	8.475	330	100687	50.0592
156)	Terphenyl-d14	(5)	10.354	244	980525	49.8951

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1125.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:31 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD050 Lab Sample ID: STD3191

Compound Number	:	172
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1771
Retention Time (minutes)	:	12.376
Quant Ion	:	252
Area (flag)	:	1384537 M
Concentration (ng/ul)	:	52.7411
Integration start scan	:	1762 Integration stop scan: 1773
Y at integration start	:	0 Y at integration end: 633

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: New Jersey chrom

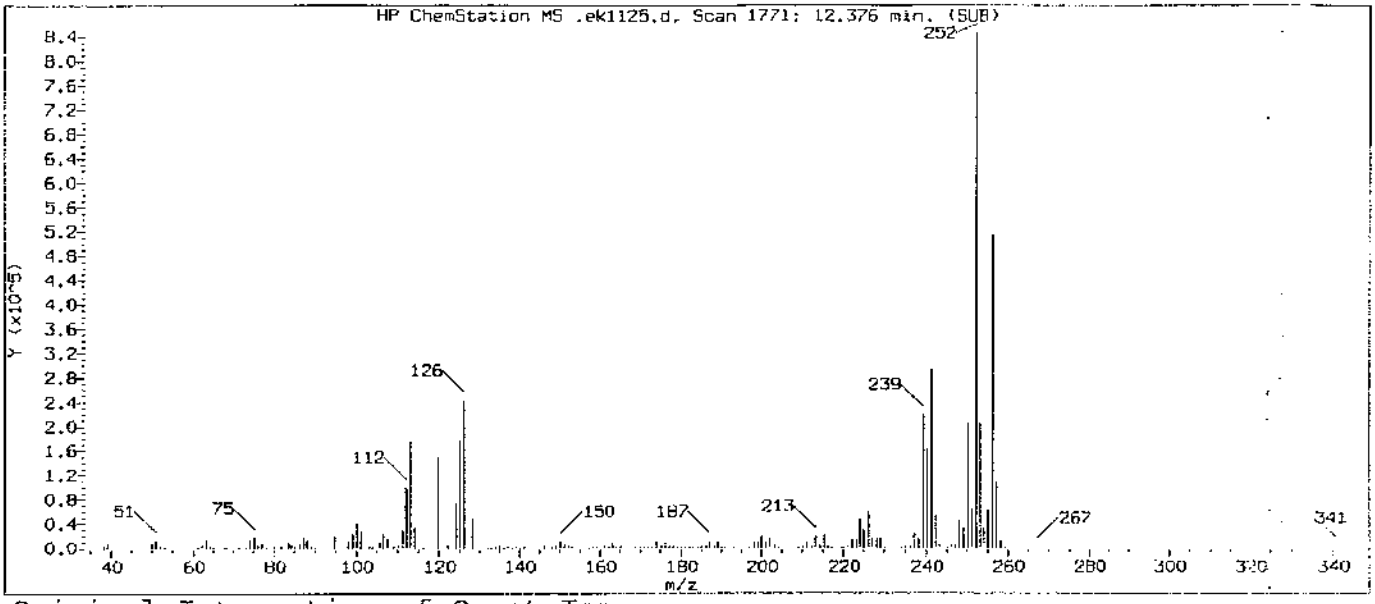
GC/MS audit/management approval: Matthew E. Barton PCH09 8673

NOV 25 2011

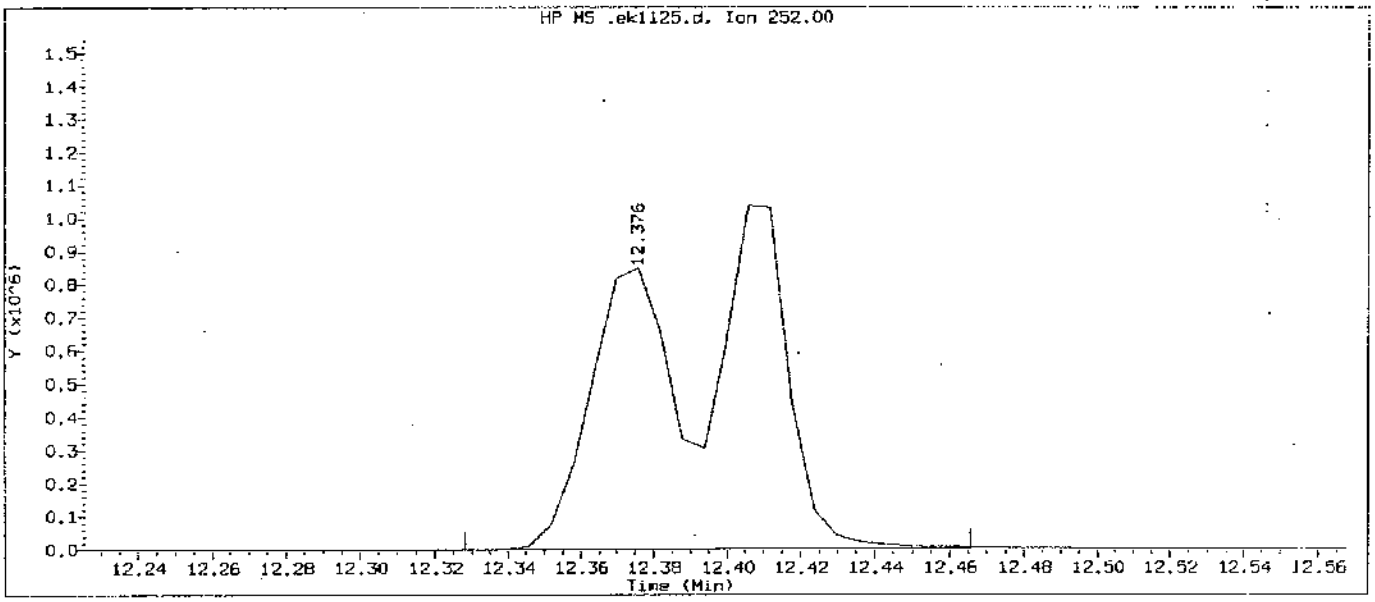
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1125.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1125.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:31 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:05
Date, time and analyst ID of latest file update: 23-Nov-2011 08:05 msw02109

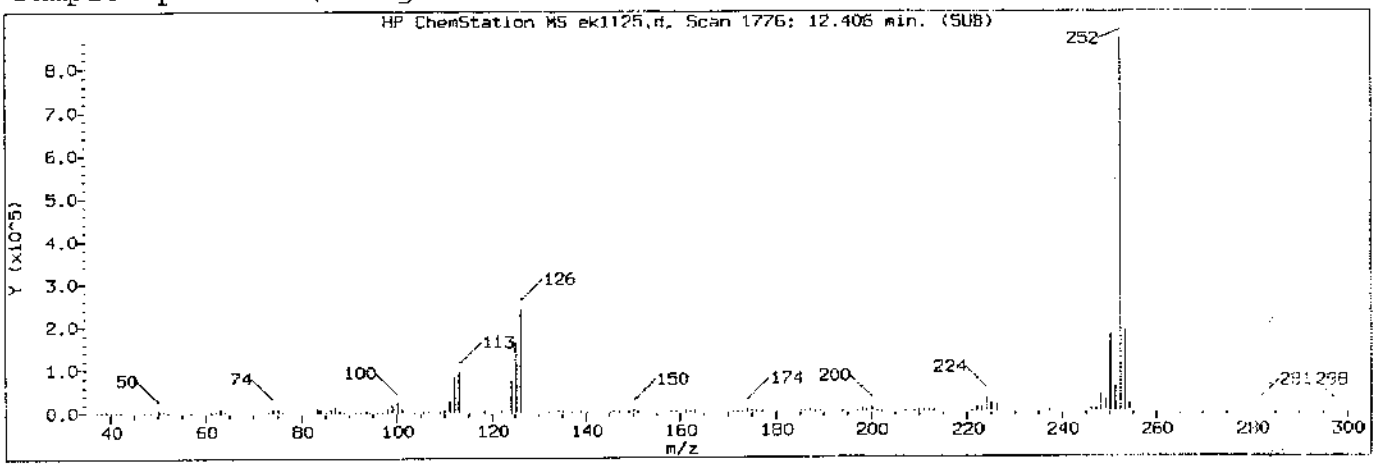
Sample Name: SSTD050 Lab Sample ID: STD3191

Compound Number	:	172
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1771
Retention Time (minutes)	:	12.376
Quant Ion	:	252
Area	:	2587150
Concentration (ng/ul)	:	76.3343
Integration start scan	:	1762 Integration stop scan: 1785
Y at integration start	:	0 Y at integration end: 1325

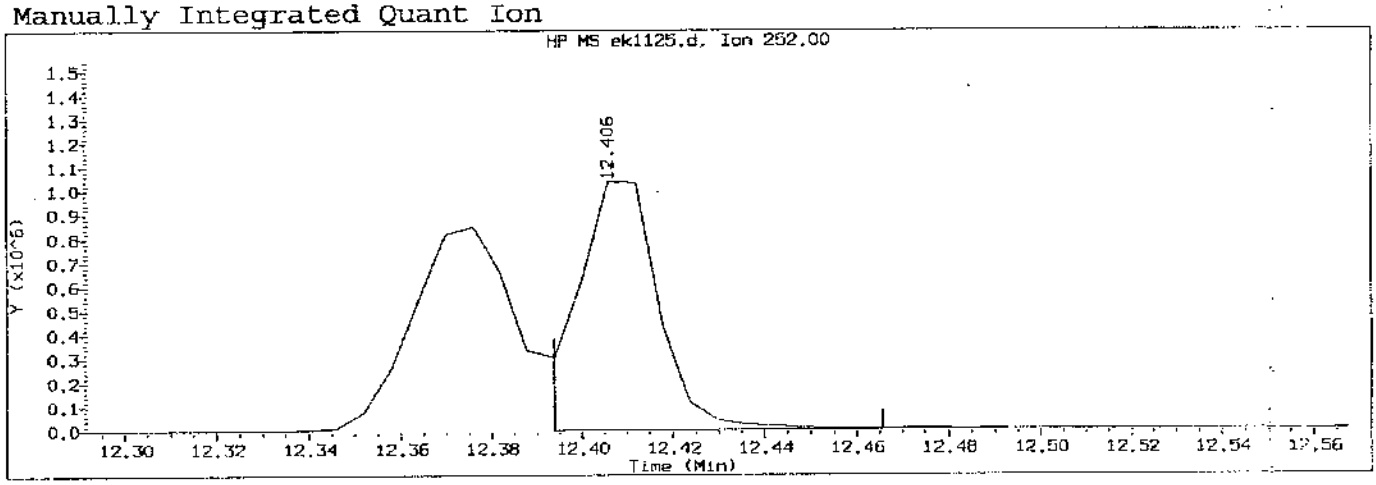
PCH09 6674

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1125.d, generated on 11/23/2011 at 08:27

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1125.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:31 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:26
Date, time and analyst ID of latest file update: 23-Nov-2011 08:26 msw02109

Sample Name: SSTD050 Lab Sample ID: STD3191

Compound Number	: 173		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1776		
Retention Time (minutes)	: 12.406		
Quant Ion	: 252		
Area (flag)	: 1318143	M	
Concentration (ng/ul)	: 51.3947		
Integration start scan	: 1773	Integration stop scan:	1785
Y at integration start	: -118	Y at integration end:	-118

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 11/23/11

GC/MS audit/management approval: [signature]

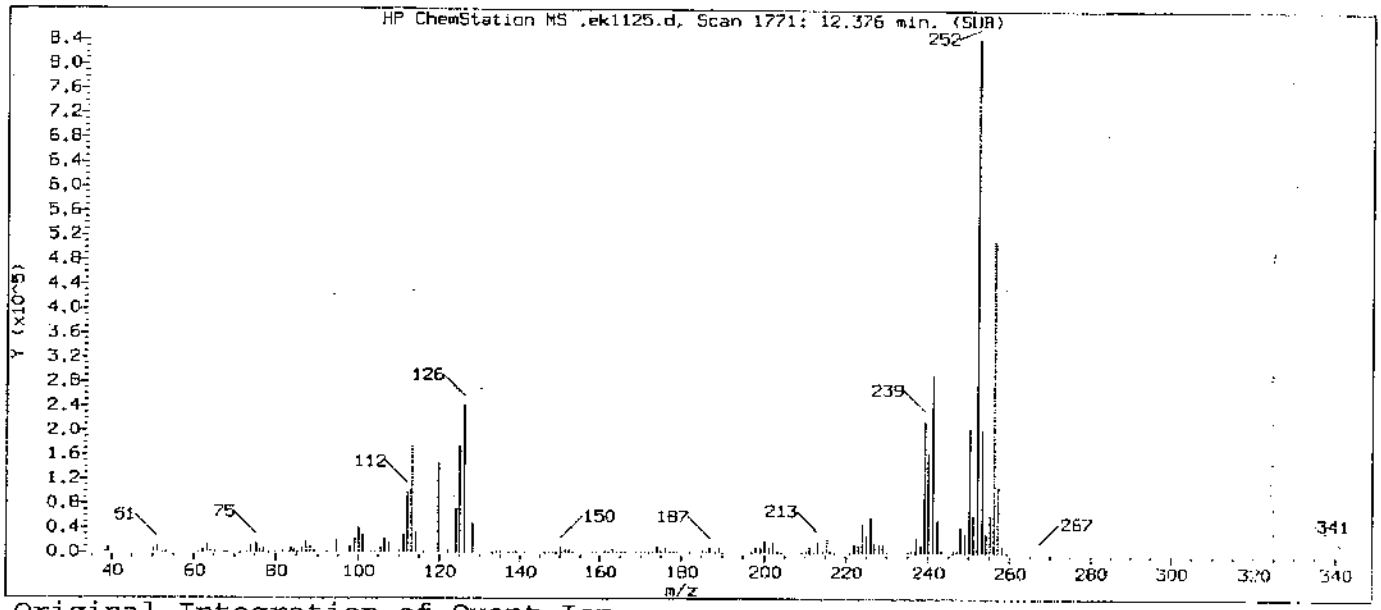
PCH89 0675

NOV 25 2011

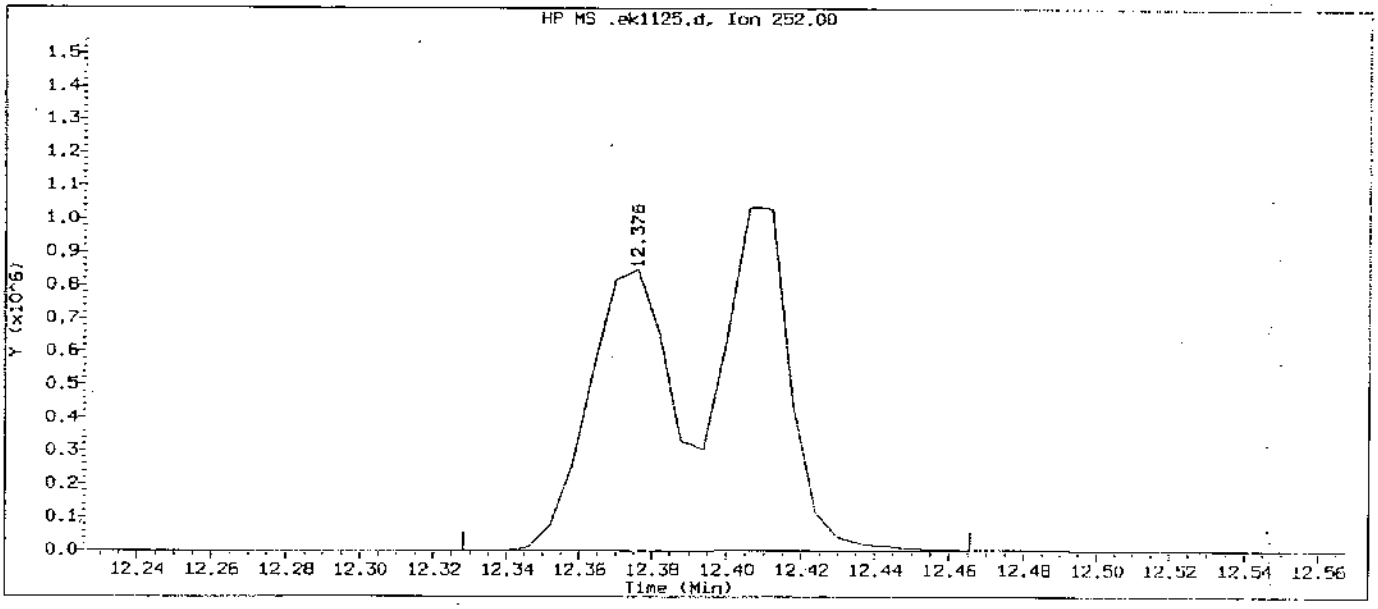
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1125.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1125.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:31 Analyst ID: jrr02820

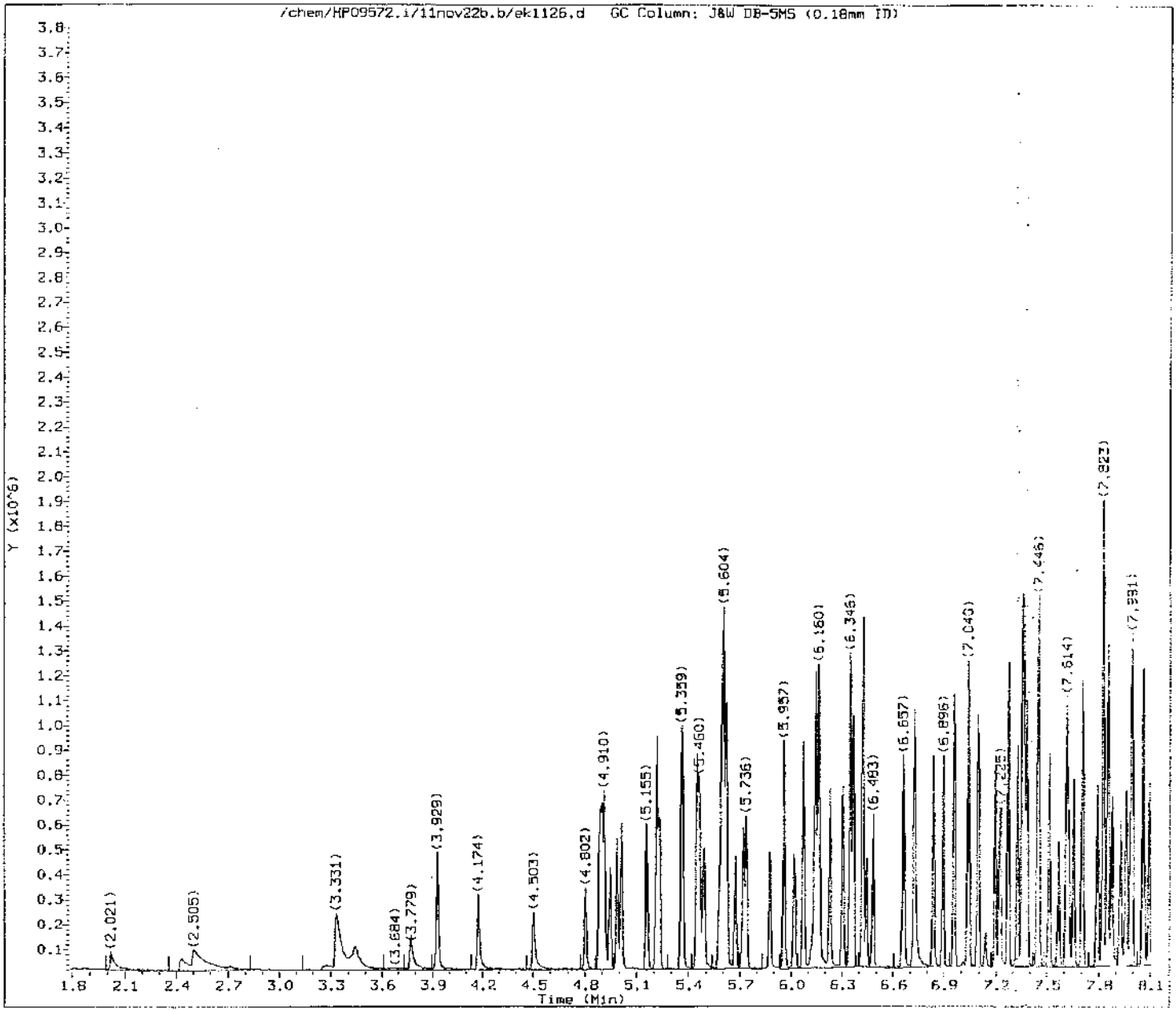
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:05
Date, time and analyst ID of latest file update: 23-Nov-2011 08:05 msw02109

Sample Name: SSTD050 Lab Sample ID: STD3191

Compound Number	: 173
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1771
Retention Time (minutes)	: 12.376
Quant Ion	: 252
Area	: 2587150
Concentration (ng/ul)	: 70.5052
Integration start scan	: 1762 Integration stop scan: 1785
Y at integration start	: 0 Y at integration end: 1325

PCH89 8676

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1125.d, generated on 11/23/2011 at 08:27



Quant Report

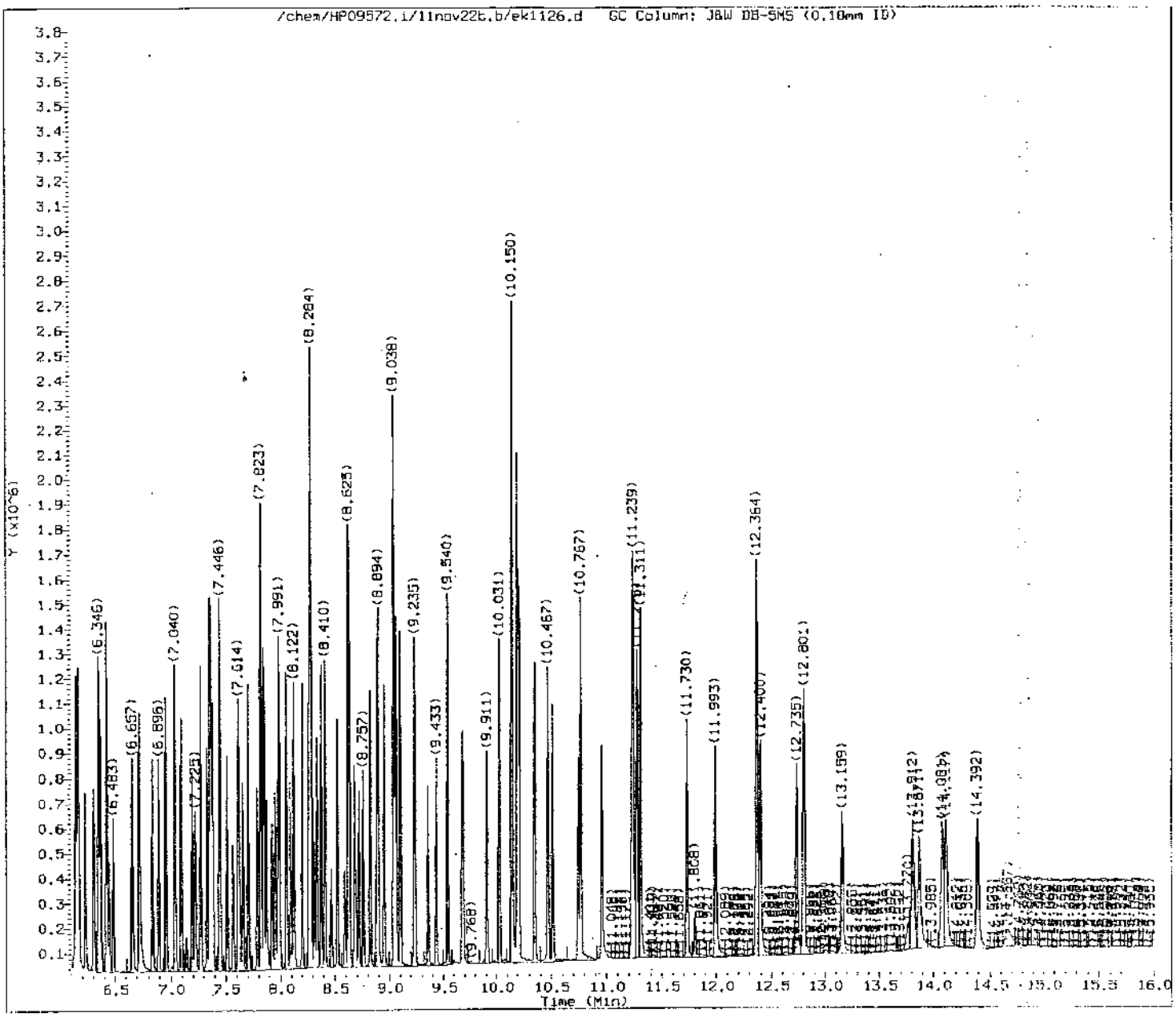
Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

PCH89 8677



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

PCH69 3678

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.021	88	48966	15.1341
2)	N-Nitrosodimethylamine	(1)	2.427	74	82431M	14.3914
3)	Pyridine	(1)	2.505	79	134341M	14.1134
5)	2-Picoline	(1)	3.331	93	131622	13.5151
6)	N-Nitrosomethylethylamine	(1)	3.444	88	72665	14.5999
7)	Methyl methanesulfonate	(1)	3.773	80	69061	14.2426
10)	N-Nitrosodiethylamine	(1)	4.174	102	69699	14.0686
11)	Ethyl methanesulfonate	(1)	4.503	109	67279	14.1528
13)	Aniline	(1)	4.910	93	231370	14.3226
16)	Phenol	(1)	4.898	94	200156	14.1375
18)	bis(2-Chloroethyl)ether	(1)	4.988	93	148564	14.4216
19)	2-Chlorophenol	(1)	5.012	128	127760	14.1074
20)	1,3-Dichlorobenzene	(1)	5.155	146	124567	14.4361
21)	1,4-Dichlorobenzene-d4	(1)	5.215	152	109758	20.0000
22)	1,4-Dichlorobenzene	(1)	5.233	146	126610	14.2542
24)	Benzyl alcohol	(1)	5.359	108	97919	14.1877
25)	1,2-Dichlorobenzene	(1)	5.365	146	118981	14.2137
26)	2-Methylphenol	(1)	5.460	108	128648	14.0756
27)	2,2'-oxybis(1-Chloropropane)	(1)	5.490	45	238028	14.4842
28)	bis(2-Chloroisopropyl)ether	(1)	5.490	45	238028	14.4842
29)	N-Nitrosopyrrolidine	(1)	5.580	100	78480	13.8166
30)	Acetophenone	(1)	5.592	105	193123	14.5028
31)	N-Nitroso-di-n-propylamine	(1)	5.604	70	117438	14.4465
32)	N-Nitrosomorpholine	(1)	5.616	56	105573	14.6758
33)	4-Methylphenol	(1)	5.604	108	157540	14.3682
34)	o-Toluidine	(1)	5.622	106	221333	14.2968
37)	Hexachloroethane	(1)	5.676	117	48224	14.1204
39)	Nitrobenzene	(2)	5.736	77	160591	14.5137
40)	N-Nitrosopiperidine	(2)	5.873	114	73033	14.4772
41)	Isophorone	(2)	5.957	82	304671	14.7432
42)	2-Nitrophenol	(2)	6.017	139	71562	14.2957
44)	2,4-Dimethylphenol	(2)	6.071	107	142092	14.3678
45)	O,O,O-triethylphosphorothioate	(2)	6.142	198	60390	14.4744
46)	bis(2-Chloroethoxy)methane	(2)	6.160	93	183778	13.8725
47)	Benzoic acid	(2)	6.166	105	271105	29.7583
49)	2,4-Dichlorophenol	(2)	6.226	162	103076	14.0455
50)	1,2,4-Trichlorobenzene	(2)	6.304	180	112193	14.6092
52)	Naphthalene-d8	(2)	6.346	136	497792	20.0000
53)	Naphthalene	(2)	6.364	128	394502	14.4789
56)	4-Chloroaniline	(2)	6.423	127	174982	14.4669
57)	2,6-Dichlorophenol	(2)	6.423	162	103657	14.2245
58)	Hexachloropropene	(2)	6.447	213	52799	13.7028
60)	Hexachlorobutadiene	(2)	6.483	225	47034	14.5519

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
63)	Caprolactam	(2)	6.729	113	58459	14.4363
64)	N-Nitrosodi-n-butylamine	(2)	6.723	84	143909	16.5955
68)	4-Chloro-3-methylphenol	(2)	6.836	107	133051	14.3727
69)	Safrole	(2)	6.896	162	100706	14.1737
70)	2-Methylnaphthalene	(2)	6.956	142	266334	14.4879
71)	1-Methylnaphthalene	(2)	7.040	142	253950	14.6910
72)	Hexachlorocyclopentadiene	(3)	7.094	237	43430	12.8066
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.099	216	102303	14.4237
74)	cis-Isosafrole	(3)	7.141	162	17791	1.5136
75)	2,4,6-Trichlorophenol	(3)	7.195	196	74589	13.7846
77)	2,4,5-Trichlorophenol	(3)	7.225	196	91449	14.7063
79)	trans-Isosafrole	(3)	7.327	162	108952	12.7155
80)	Isosafrole	(3)	7.327	162	108952	14.2871
83)	1,1'-Biphenyl	(3)	7.351	154	322574	14.3556
84)	2-Chloronaphthalene	(3)	7.363	162	347145M	15.5351
85)	1-Chloronaphthalene	(3)	7.381	162	237124M	13.6812
88)	Diphenyl ether	(3)	7.446	170	172807	14.3910
89)	2-Nitroaniline	(3)	7.452	138	92766	13.8632
90)	1,4-Naphthoquinone	(3)	7.512	158	116865	14.6820
91)	1,4-Dinitrobenzene	(3)	7.566	168	45538	13.3000
92)	Dimethylphthalate	(3)	7.614	163	306154	14.8036
93)	1,3-Dinitrobenzene	(3)	7.626	168	54491	13.7115
94)	2,6-Dinitrotoluene	(3)	7.656	165	72337	14.1824
95)	Acenaphthylene	(3)	7.704	152	390769	14.5157
97)	3-Nitroaniline	(3)	7.787	138	83021	14.0619
98)	Acenaphthene-d10	(3)	7.823	164	321472	20.0000
99)	Acenaphthene	(3)	7.847	153	257736	14.3838
100)	2,4-Dinitrophenol	(3)	7.877	184	85174	27.0144
101)	Pentachlorobenzene	(3)	7.955	250	80630	14.4588
103)	4-Nitrophenol	(3)	7.925	109	43302	13.6684
104)	Dibenzofuran	(3)	7.991	168	369575	14.6031
105)	2,4-Dinitrotoluene	(3)	7.985	165	94936	14.0748
106)	1-Naphthylamine	(3)	8.057	143	300186	14.3757
107)	2,3,4,6-Tetrachlorophenol	(3)	8.093	232	62838	14.4599
108)	2-Naphthylamine	(3)	8.122	143	308044	14.5474
109)	Diethylphthalate	(3)	8.200	149	299427	14.5217
110)	Thionazin	(3)	8.260	107	61407	14.0106
111)	Fluorene	(3)	8.272	166	311527	14.5354
112)	4-Chlorophenyl-phenylether	(3)	8.284	204	141582	14.6689
113)	5-Nitro-o-toluidine	(3)	8.284	152	97383	13.9625
114)	4-Nitroaniline	(3)	8.290	138	93882	14.6654
115)	4,6-Dinitro-2-methylphenol	(4)	8.314	198	54841	13.2279
117)	N-Nitrosodiphenylamine	(4)	8.380	169	268579	14.3155

M = Compound was manually integrated. A = User selected an alternate hit

PCH89 8688

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
118)	1,2-Diphenylhydrazine	(4)	8.410	77	375898	14.4512
120)	Tetraethyldithiopyrophosphate	(4)	8.523	97	49403	13.9669
121)	1,3,5-Trinitrobenzene	(4)	8.589	213	29784	11.5722
122)	Diallate (peak 1)	(4)	8.619	86	141434	10.6139
123)	Phorate	(4)	8.625	75	233475	13.9696
124)	Phenacetin	(4)	8.637	108	176875	14.1374
125)	4-Bromophenyl-phenylether	(4)	8.685	248	67616	14.5760
126)	Diallate (peak 2)	(4)	8.691	86	29770	3.6142
127)	Hexachlorobenzene	(4)	8.721	284	63691	14.5293
128)	Dimethoate	(4)	8.757	87	148099	14.8543
129)	Diallate TRANS/CIS	(4)	23.156	86	171204	14.2039
131)	Pentachlorophenol	(4)	8.882	266	46937	13.8217
132)	Pentachloronitrobenzene	(4)	8.894	237	27448	13.9265
133)	4-Aminobiphenyl	(4)	8.894	169	258691	15.3106
134)	Pronamide	(4)	8.948	173	130515	13.9058
135)	Phenanthrene-d10	(4)	9.038	188	558897	20.0000
136)	Dinoseb	(4)	9.044	211	68866	12.2780
137)	Phenanthrene	(4)	9.056	178	447531	14.1855
138)	Anthracene	(4)	9.098	178	462715	14.5333
140)	Carbazole	(4)	9.235	167	447512	14.5254
141)	Methyl parathion	(4)	9.355	109	104401	14.1335
142)	Di-n-butylphthalate	(4)	9.540	149	511026	14.1636
143)	Parathion	(4)	9.678	109	64955	13.1362
144)	4-Nitroquinoline-1-oxide	(4)	9.690	190	35202	10.8498
146)	Isodrin	(4)	9.911	193	49673	14.3843
147)	Fluoranthene	(4)	10.031	202	446834	14.4434
152)	Benzidine	(5)	10.150	184	907573	41.5283
154)	Pyrene	(5)	10.216	202	505723	14.6570
158)	p-Dimethylaminoazobenzene	(5)	10.467	225	91520	13.6909
159)	Chlorobenzilate	(5)	10.509	139	149794	14.1499
160)	3,3'-Dimethylbenzidine	(5)	10.743	212	239939	12.8992
161)	Butylbenzylphthalate	(5)	10.767	149	229516	13.9467
162)	2-Acetylaminofluorene	(5)	10.958	181	191760	13.4181
164)	3,3'-Dichlorobenzidine	(5)	11.227	252	130079	13.3728
165)	4,4'-Methylenebis(2-Chloroanil	(5)	11.233	231	70572	13.5742
166)	Benzo(a)anthracene	(5)	11.245	228	401338	14.6411
167)	Pyrene-d10	(5)	10.198	212	640982	20.0000
168)	Chrysene	(5)	11.275	228	413832	14.7937
169)	bis(2-Ethylhexyl)phthalate	(5)	11.311	149	297676	13.5282
189)	6-Methylchrysene	(5)	11.730	242	275796	13.9456
190)	Dibenz(a,h)acridine	(6)	13.812	279	227437	13.2684
170)	Di-n-octylphthalate	(6)	11.993	149	462602	12.8791
191)	Dibenz(a,j)acridine	(6)	13.877	279	259565	13.8107

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

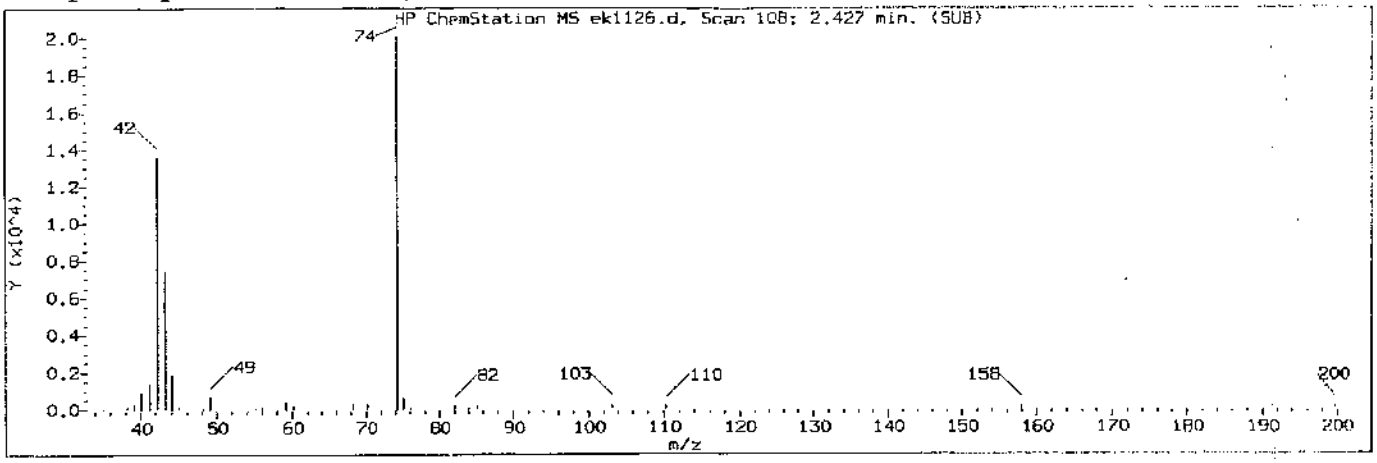
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

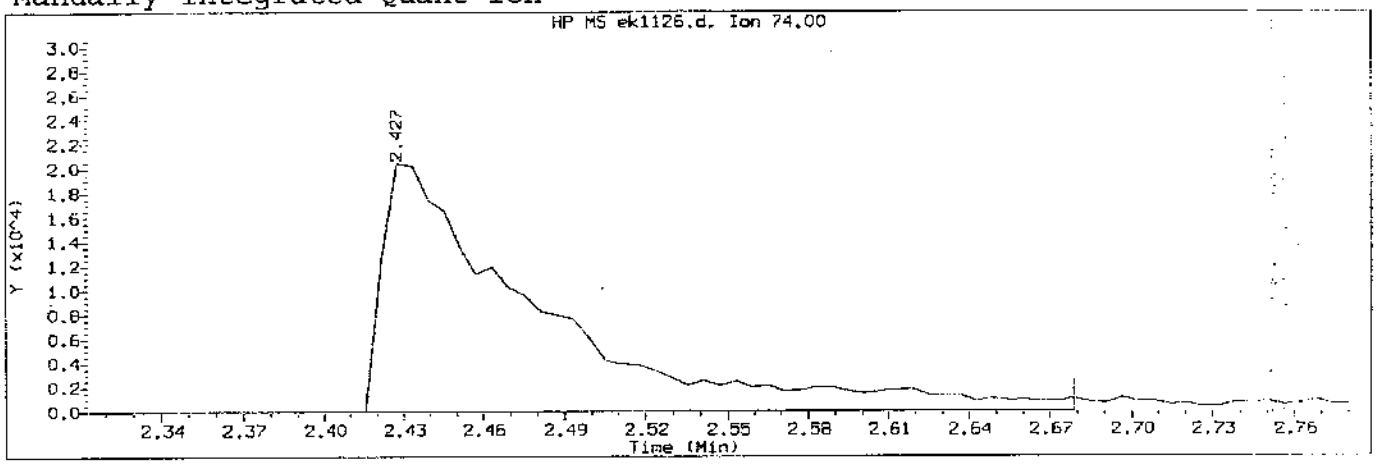
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
171)	7,12-Dimethylbenz[a]anthracene	(6)	12.364	256	165606	13.6693
172)	Benzo(b)fluoranthene	(6)	12.364	252	360640M	14.0222
194)	Quinoline	(2)	6.657	129	270511	14.4932
173)	Benzo(k)fluoranthene	(6)	12.400	252	380134	14.9447
174)	Benzo(a)pyrene	(6)	12.735	252	327720	14.1874
175)	Perylene-d12	(6)	12.801	264	420016	20.0000
202)	NDPA as diphenylamine	(4)	8.380	169	268579	14.3155
176)	3-Methylcholanthrene	(6)	13.159	268	158936	13.4298
177)	Indeno(1,2,3-cd)pyrene	(6)	14.081	276	340284	14.4938
178)	Dibenz(a,h)anthracene	(6)	14.117	278	286772	14.1992
206)	Indene	(1)	5.448	115	200292	14.0328
179)	Benzo(g,h,i)perylene	(6)	14.398	276	283873	14.1897
9)	2-Fluorophenol	(1)	3.929	112	120872	14.1195
14)	Phenol-d5	(1)	4.886	99	173625	14.0724
15)	Phenol-d6	(1)	4.886	99	173625	14.0724
38)	Nitrobenzene-d5	(2)	5.718	82	155356	14.3428
78)	2-Fluorobiphenyl	(3)	7.273	172	280489	14.5121
119)	2,4,6-Tribromophenol	(3)	8.469	330	27295	14.0620
156)	Terphenyl-d14	(5)	10.354	244	276669	14.2932

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

Compound Number : 2
Compound Name : N-Nitrosodimethylamine
Scan Number : 108
Retention Time (minutes): 2.427
Quant Ion : 74
Area (flag) : 82431 M
Concentration (ng/ul) : 14.3914
Integration start scan : 105 Integration stop scan: 149
Y at integration start : 12 Y at integration end: 12

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

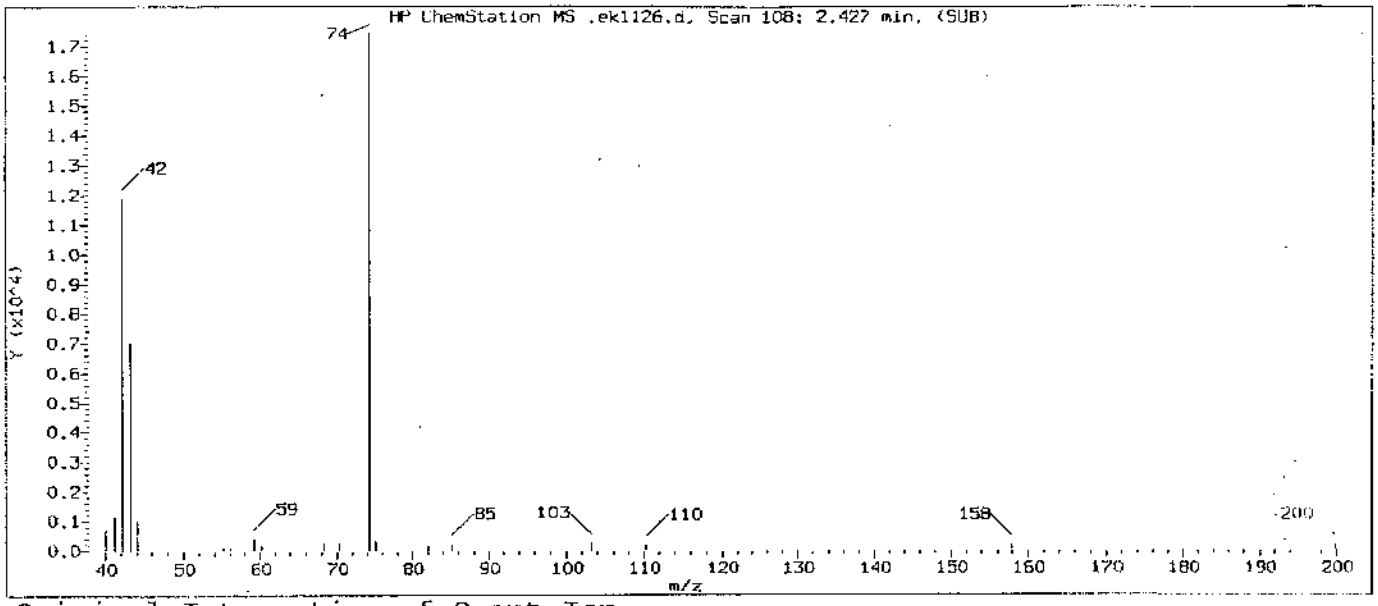
GC/MS audit/management approval: _____ PCH89 0683

NOV 25 2011

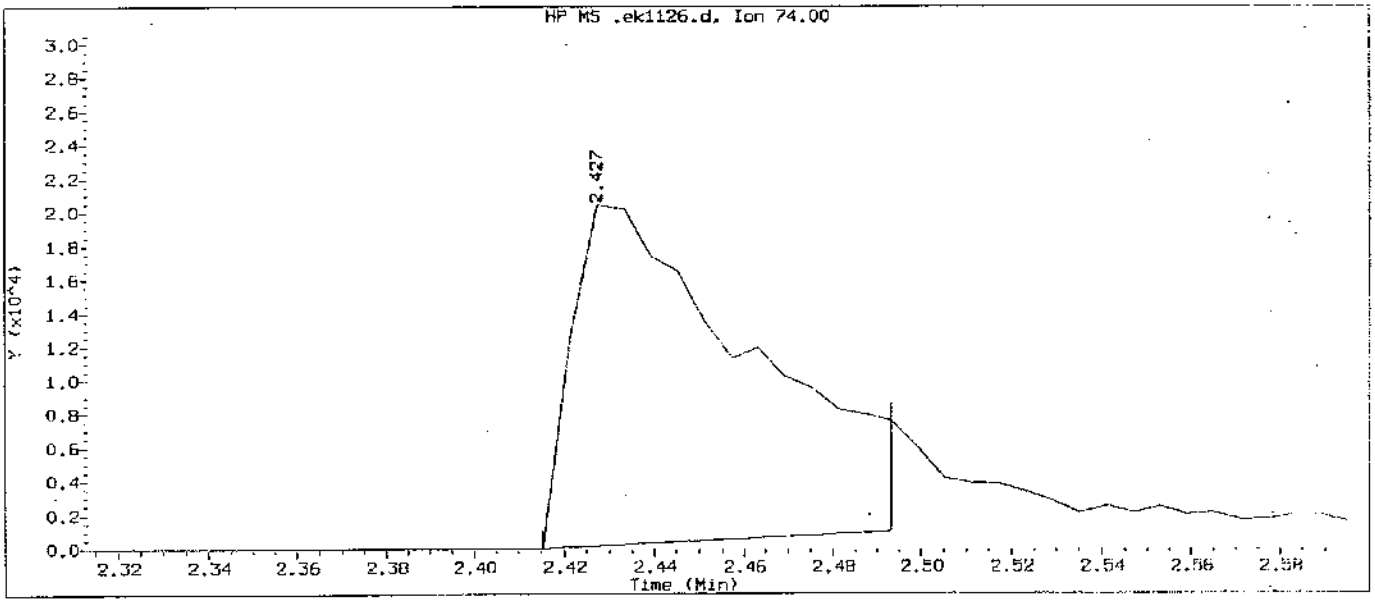
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1126.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

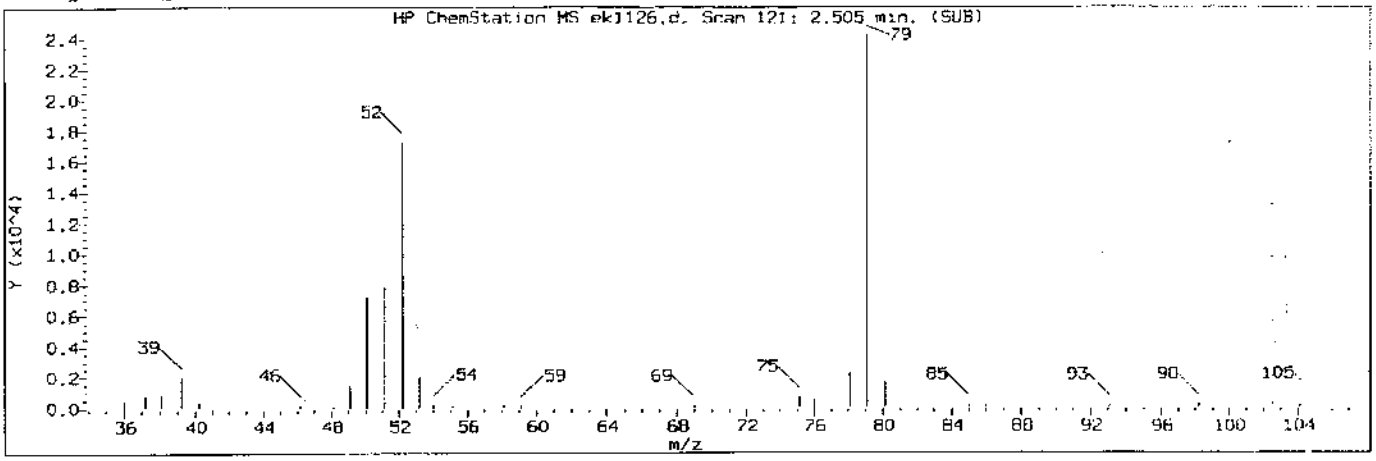
Sample Name: SSTD015 Lab Sample ID: STD3191

Compound Number	: 2
Compound Name	: N-Nitrosodimethylamine
Scan Number	: 108
Retention Time (minutes)	: 2.427
Quant Ion	: 74
Area	: 56330
Concentration (ng/ul)	: 10.4708
Integration start scan	: 105 Integration stop scan: 118
Y at integration start	: 0 Y at integration end: 1009

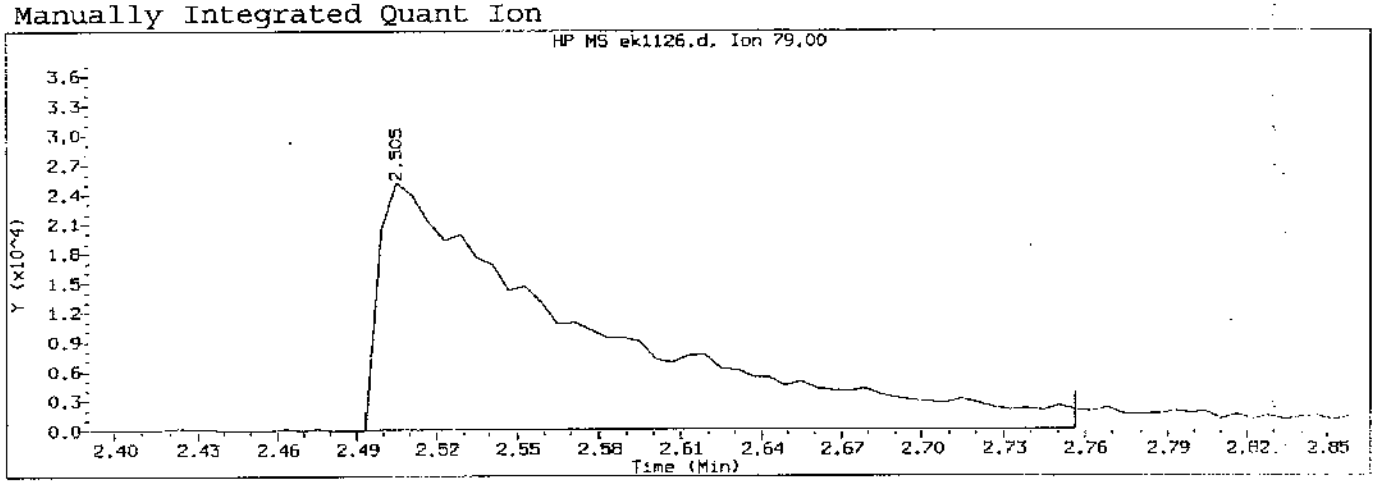
PCH09 8684

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1126.d, generated on 11/23/2011 at 08:27

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

Compound Number	:	3
Compound Name	:	Pyridine
Scan Number	:	121
Retention Time (minutes)	:	2.505
Quant Ion	:	79
Area (flag)	:	134341 M
Concentration (ng/ul)	:	14.1134
Integration start scan	:	118 Integration stop scan: 162
Y at integration start	:	112 Y at integration end: 112

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Matthew E Barton

GC/MS audit/management approval: Matthew E Barton

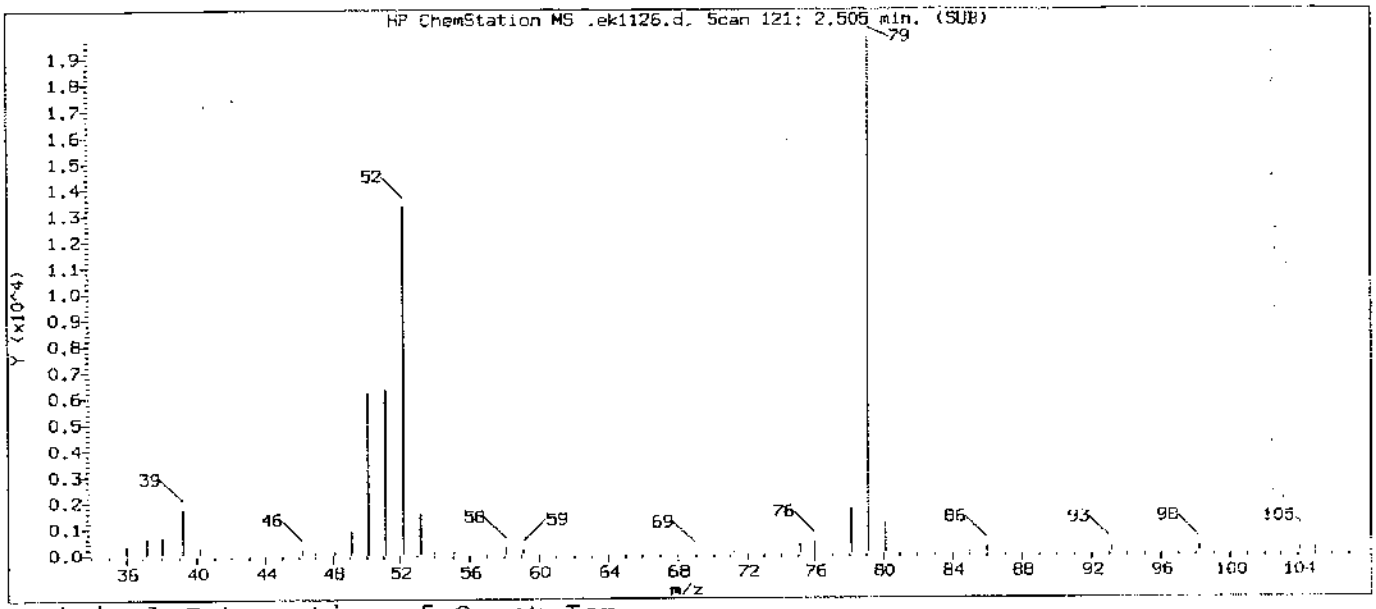
PCH69 8685

NOV 25 2011

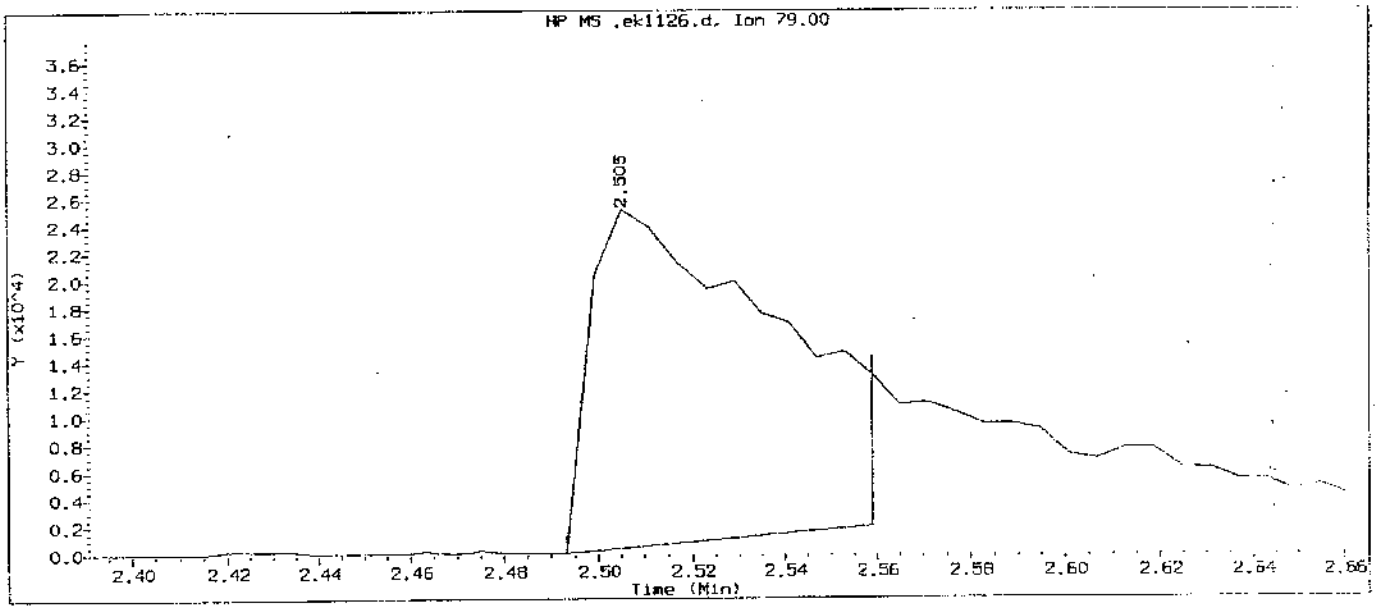
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1126.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

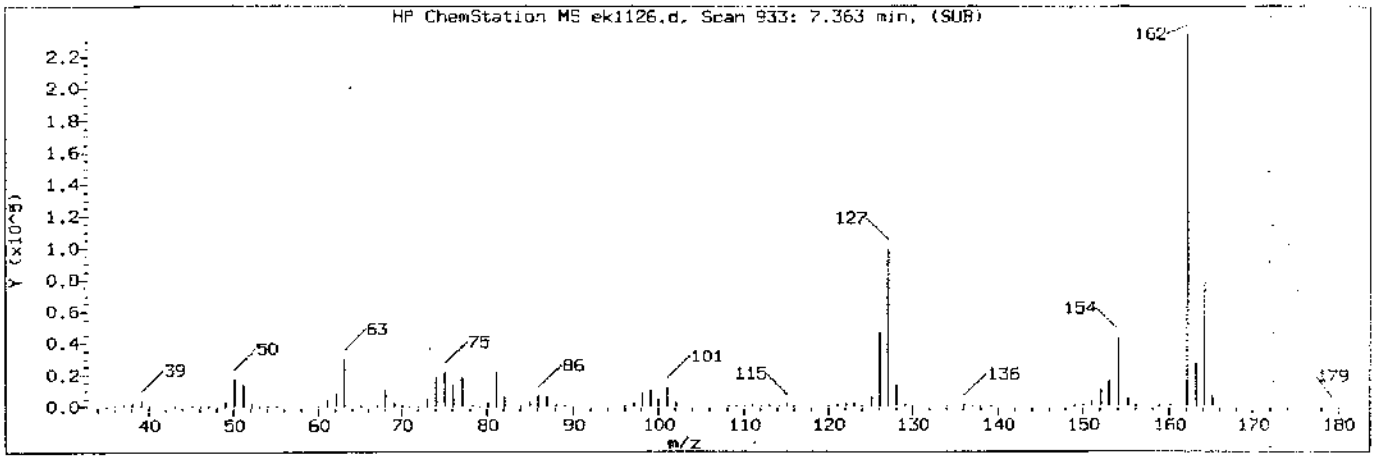
Sample Name: SSTD015 Lab Sample ID: STD3191

Compound Number	: 3
Compound Name	: Pyridine
Scan Number	: 121
Retention Time (minutes)	: 2.505
Quant Ion	: 79
Area	: 67870
Concentration (ng/ul)	: 8.4438
Integration start scan	: 118 Integration stop scan: 129
Y at integration start	: 0 Y at integration end: 1965

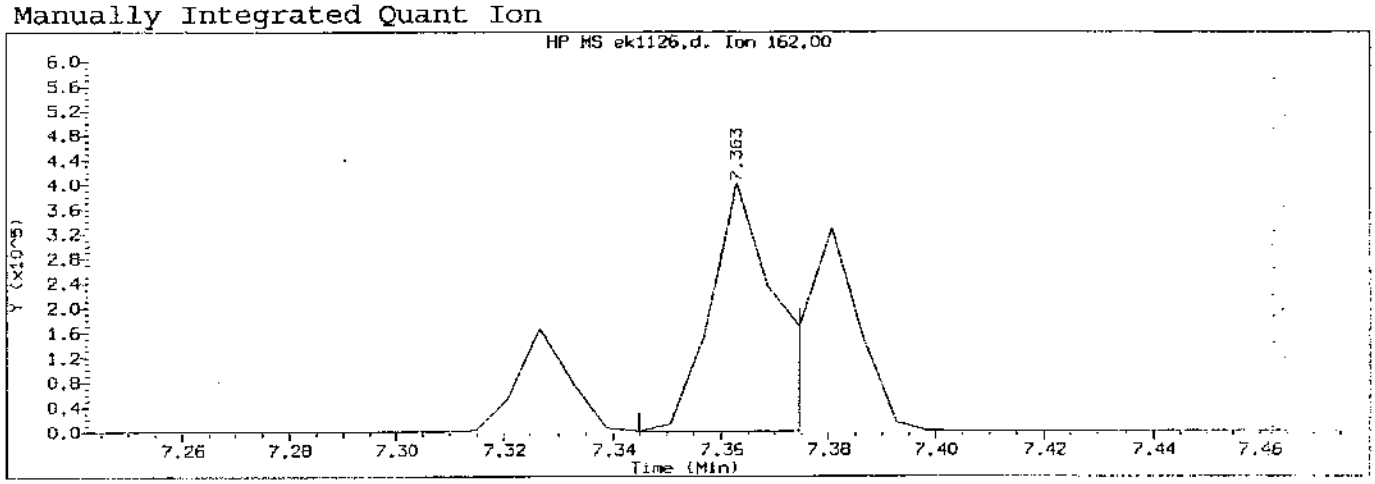
PCH09 0686

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1126.d, generated on 11/23/2011 at 08:27

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

Compound Number : 84
Compound Name : 2-Chloronaphthalene
Scan Number : 933
Retention Time (minutes): 7.363
Quant Ion : 162
Area (flag) : 347145 M
Concentration (ng/ul) : 15.5351
Integration start scan : 929 Integration stop scan: 934
Y at integration start : 77 Y at integration end: 67

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: NSW 11/23/11

GC/MS audit/management approval: Matthew E Barton

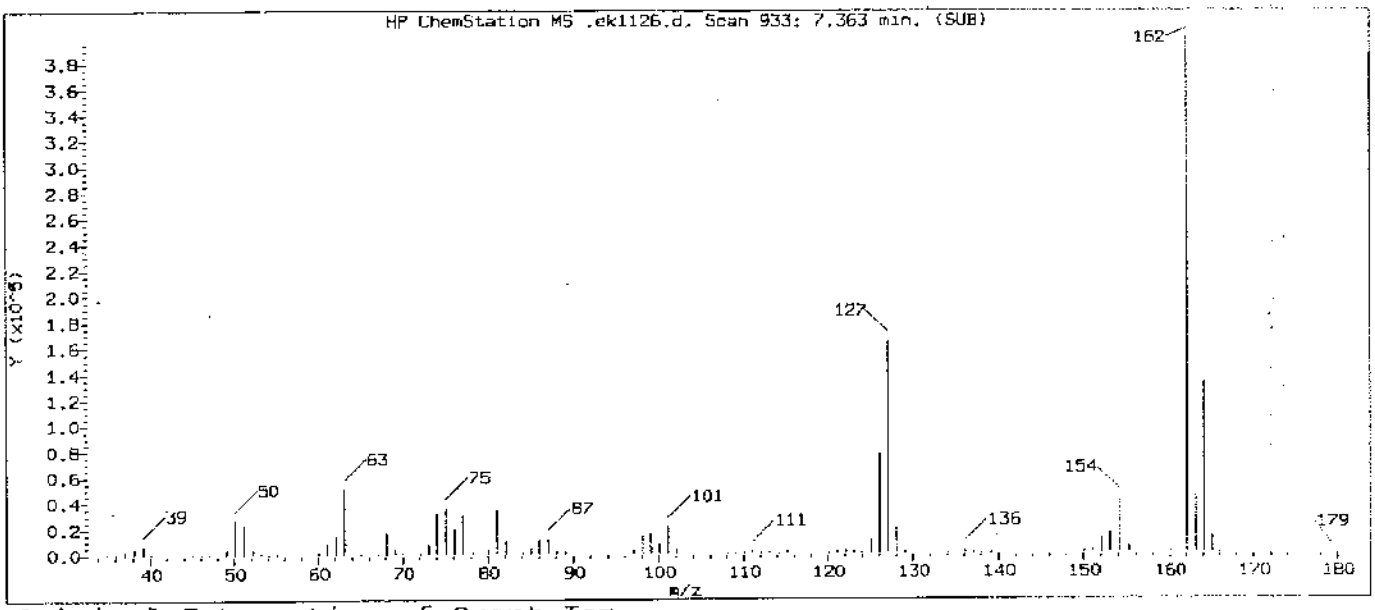
PCH09 0687

NOV 25 2011

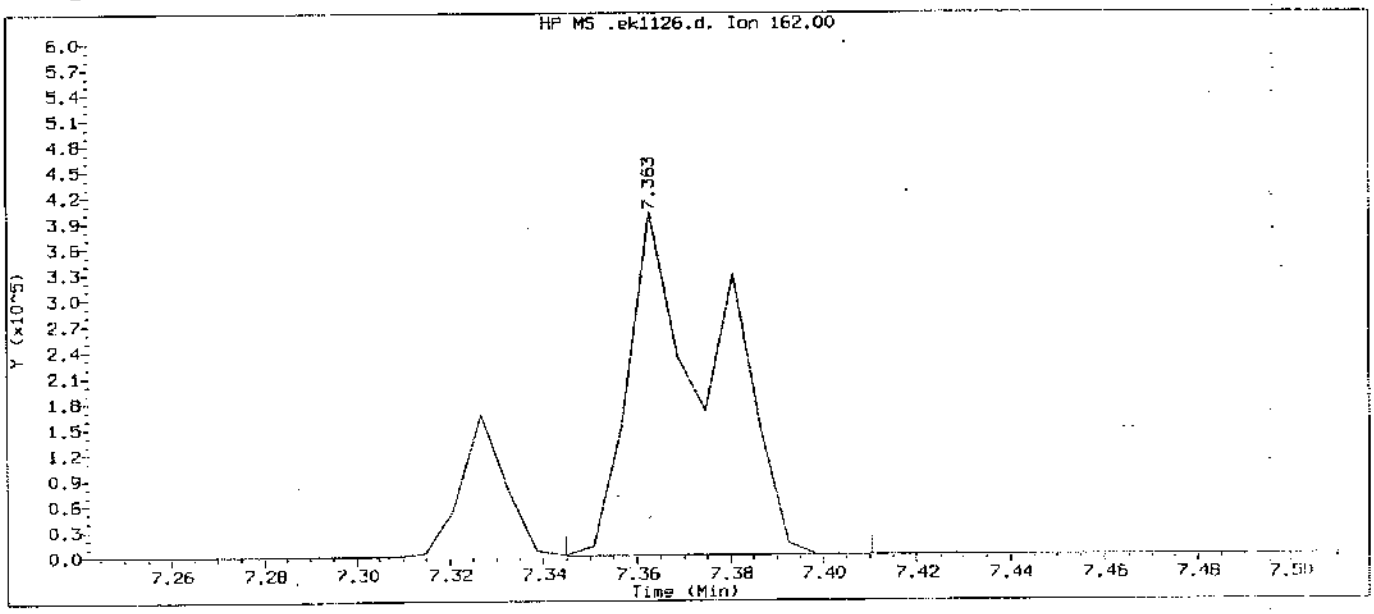
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1126.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

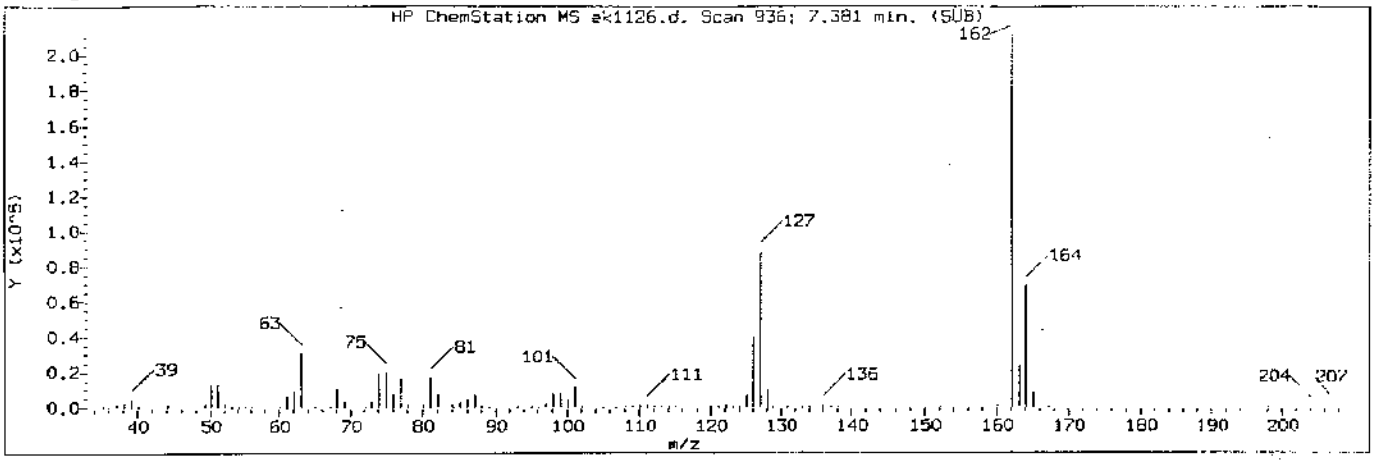
Sample Name: SSTD015 Lab Sample ID: STD3191

Compound Number	: 84
Compound Name	: 2-Chloronaphthalene
Scan Number	: 933
Retention Time (minutes)	: 7.363
Quant Ion	: 162
Area	: 523521
Concentration (ng/ul)	: 17.7961
Integration start scan	: 929 Integration stop scan: 940
Y at integration start	: 77 Y at integration end: 54

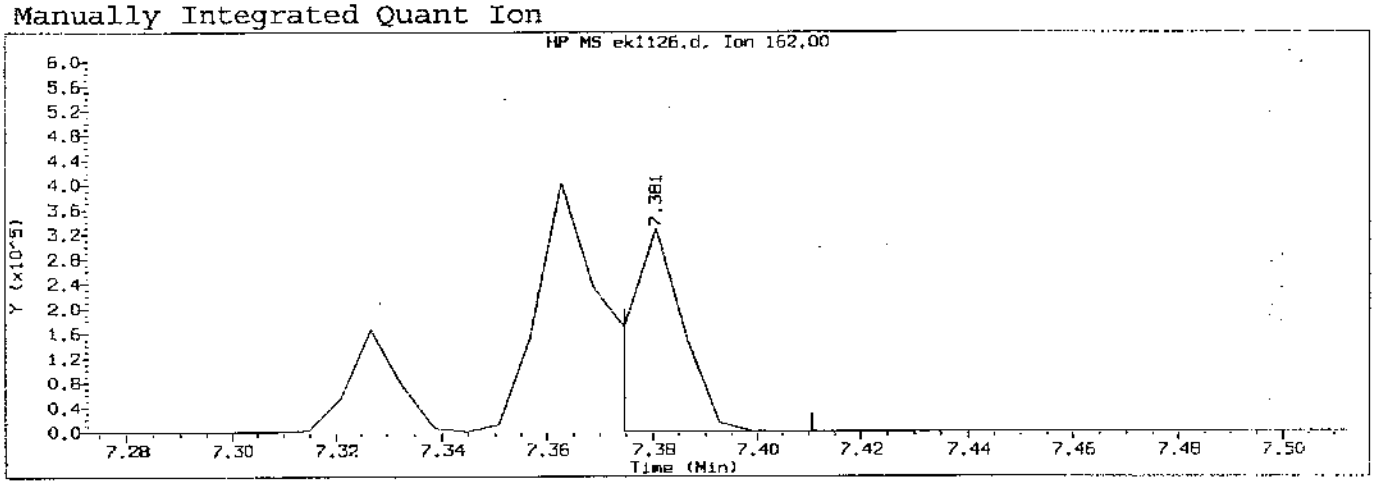
PCH89 8688

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1126.d, generated on 11/23/2011 at 08:27

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

Compound Number : 85
Compound Name : 1-Chloronaphthalene
Scan Number : 936
Retention Time (minutes): 7.381
Quant Ion : 162
Area (flag) : 237124 M
Concentration (ng/ul) : 13.6812
Integration start scan : 934 Integration stop scan: 940
Y at integration start : 117 Y at integration end: 117

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Mw Jrr 11/23/11

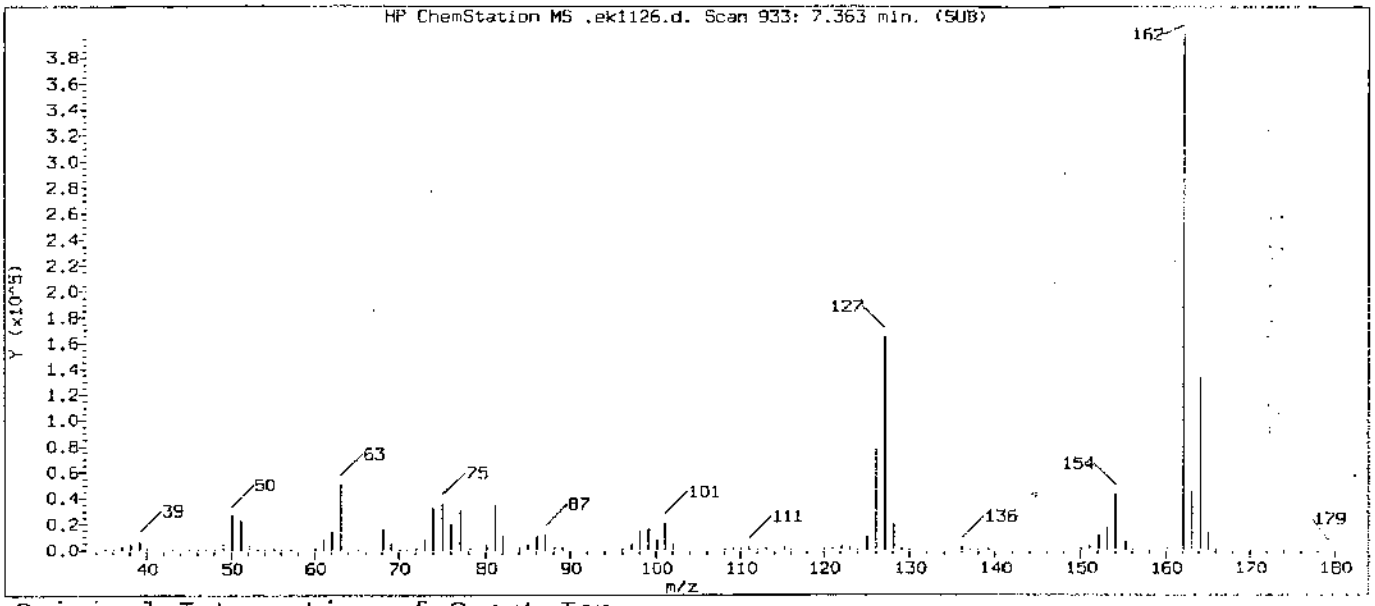
GC/MS audit/management approval: Matthew E Barton PCH89 8689

NOV 25 2011

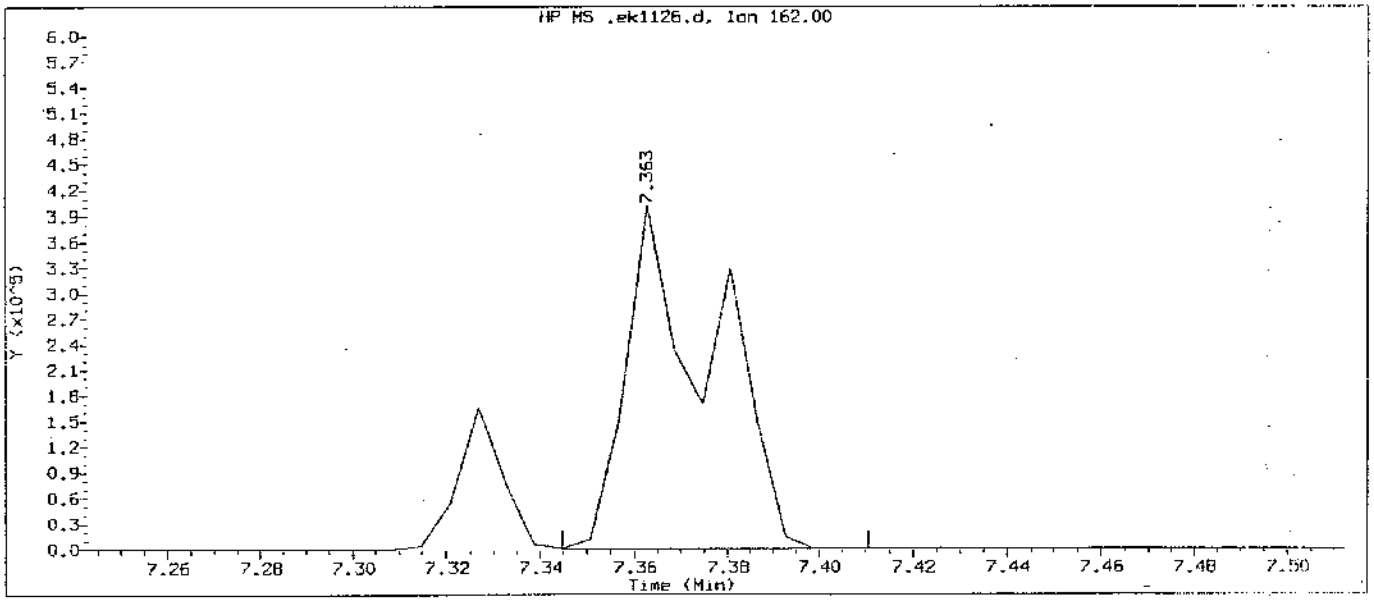
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1126.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

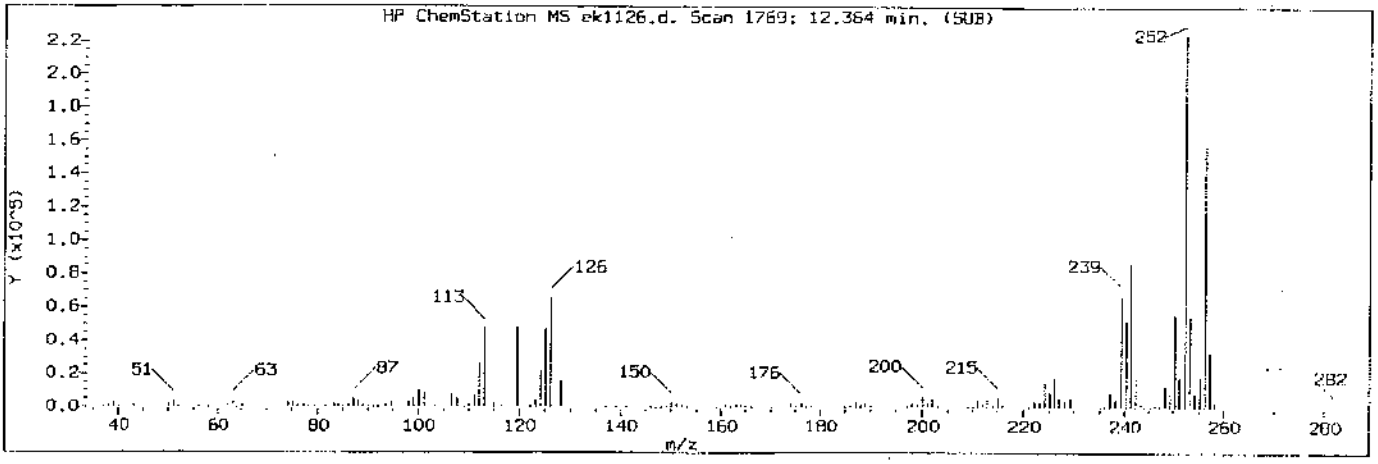
Sample Name: SSTD015 Lab Sample ID: STD3191

Compound Number : 85
Compound Name : 1-Chloronaphthalene
Scan Number : 933
Retention Time (minutes) : 7.363
Quant Ion : 162
Area : 523417
Concentration (ng/ul) : 15.3474
Integration start scan : 929 Integration stop scan: 940
Y at integration start : 106 Y at integration end: 79

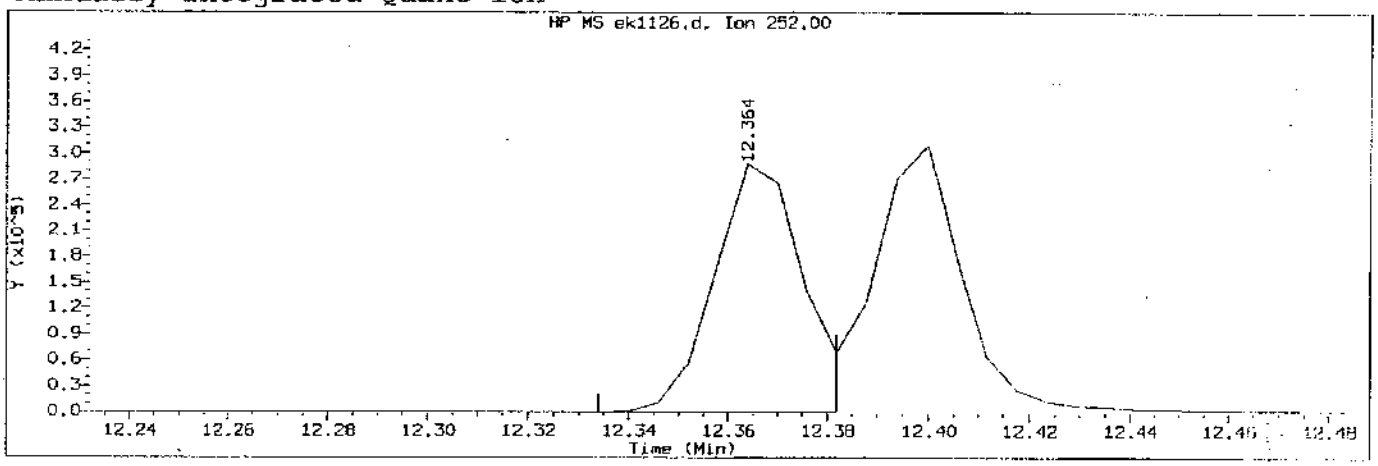
PCH09 8698

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1126.d, generated on 11/23/2011 at 08:27

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1769
Retention Time (minutes): 12.364
Quant Ion : 252
Area (flag) : 360640 M
Concentration (ng/ul) : 14.0222
Integration start scan : 1763 Integration stop scan: 1771
Y at integration start : 0 Y at integration end: 276

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature]

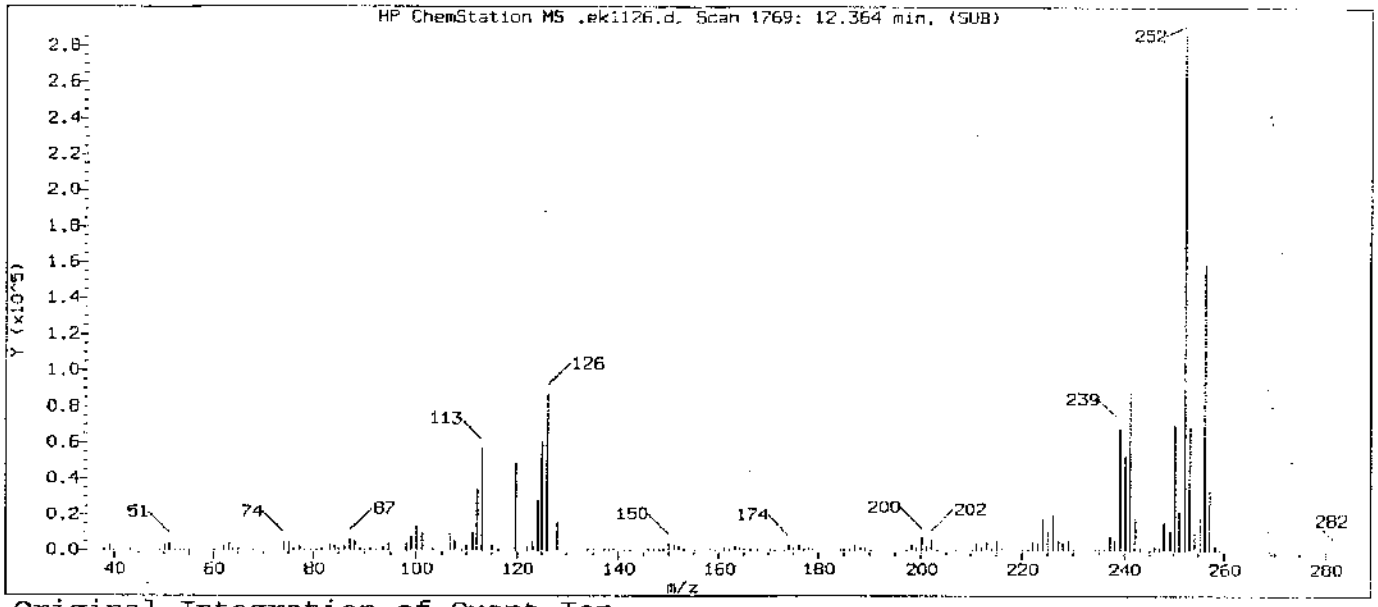
GC/MS audit/management approval: [signature] PCH09 0691

NOV 25 2011

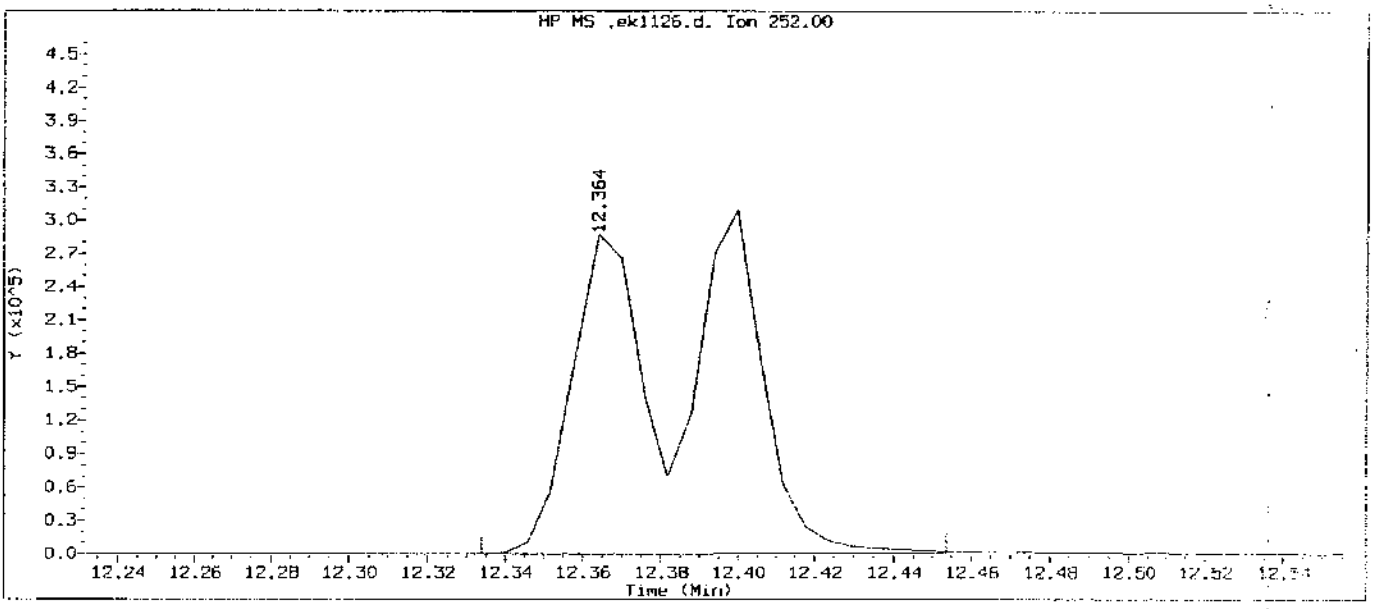
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1126.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1126.d Instrument ID: HP09572.i
Injection date and time: 22-NOV-2011 23:55 Analyst ID: jrr02820

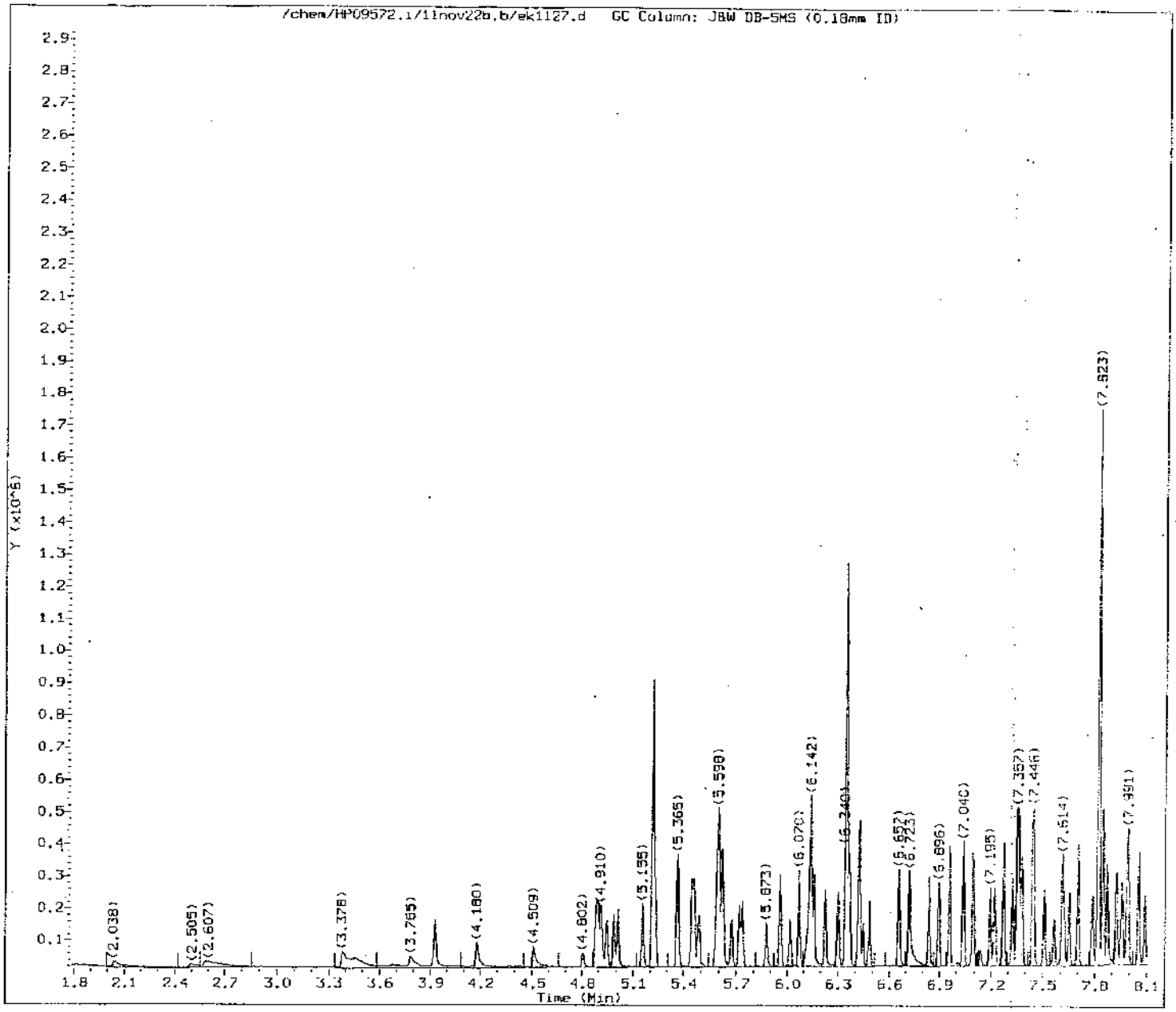
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Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

Sample Name: SSTD015 Lab Sample ID: STD3191

Compound Number	: 172
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1769
Retention Time (minutes)	: 12.364
Quant Ion	: 252
Area	: 718680
Concentration (ng/ul)	: 18.1414
Integration start scan	: 1763 Integration stop scan: 1783
Y at integration start	: 0 Y at integration end: 692

PCH89 8692

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1126.d, generated on 11/23/2011 at 08:27



Quant Report

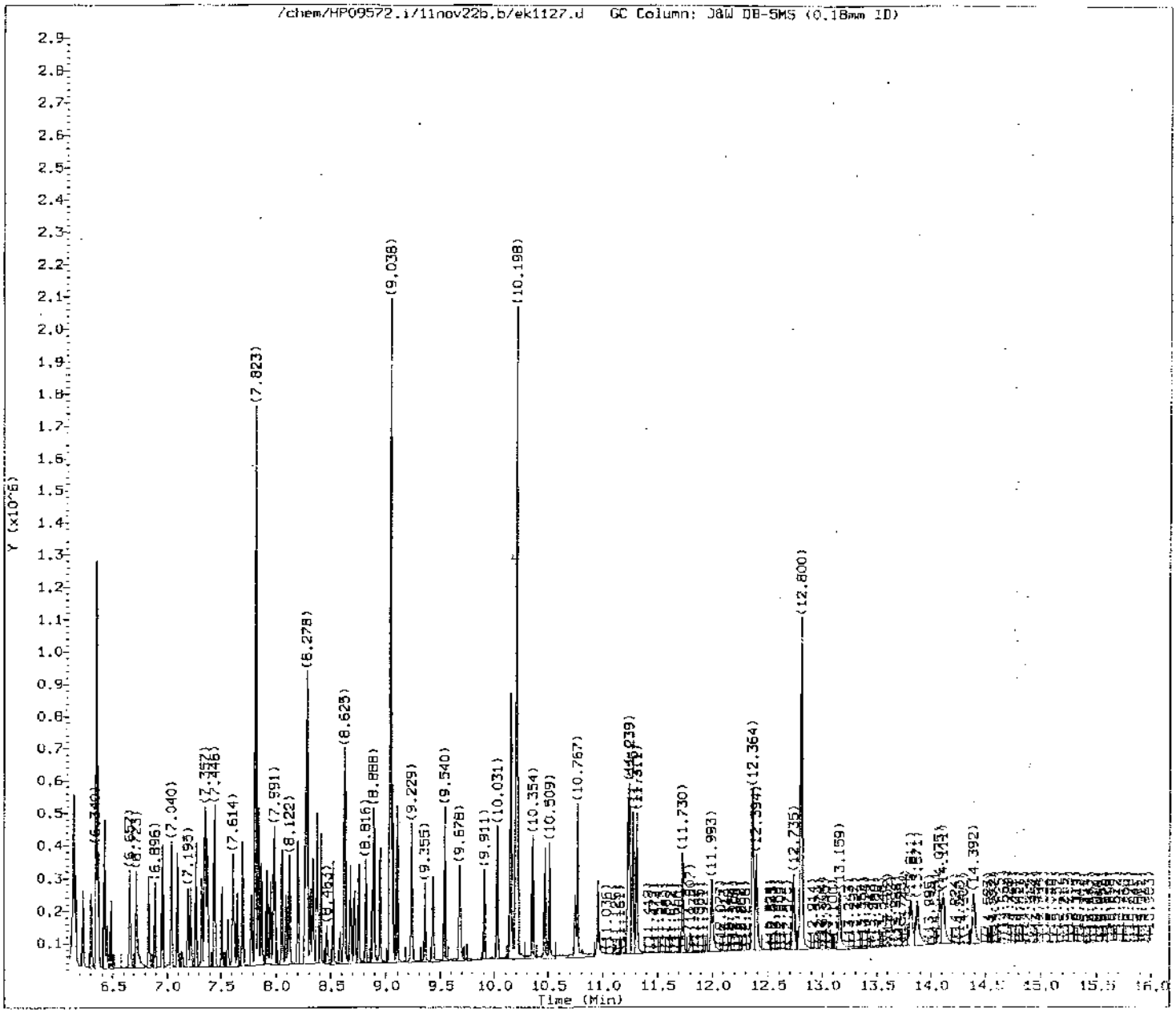
Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

msw 11/30/11 PCH09 8693



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27,
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

Nsw 1107 11/23/11

PCH89 8694

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	2.038	88	17194M	5.4790
2)	N-Nitrosodimethylamine	(1)	2.511	74	27778M	5.0812
3)	Pyridine	(1)	2.589	79	51708M	5.5780
5)	2-Picoline	(1)	3.378	93	51283M	5.4381
6)	N-Nitrosomethylethylamine	(1)	3.456	88	24631	5.1672
7)	Methyl methanesulfonate	(1)	3.785	80	21459	4.7065
10)	N-Nitrosodiethylamine	(1)	4.180	102	22774	4.8592
11)	Ethyl methanesulfonate	(1)	4.509	109	21146	4.7268
13)	Aniline	(1)	4.916	93	75557	4.9302
16)	Phenol	(1)	4.898	94	64345	4.8130
18)	bis(2-Chloroethyl)ether	(1)	4.988	93	48590	4.9649
19)	2-Chlorophenol	(1)	5.012	128	41771	4.8729
20)	1,3-Dichlorobenzene	(1)	5.155	146	41469	5.0429
21)	1,4-Dichlorobenzene-d4	(1)	5.215	152	104418	20.0000
22)	1,4-Dichlorobenzene	(1)	5.233	146	44340	5.2044
24)	Benzyl alcohol	(1)	5.359	108	32376	4.9423
25)	1,2-Dichlorobenzene	(1)	5.365	146	40264	5.0466
26)	2-Methylphenol	(1)	5.460	108	41912	4.8492
27)	2,2'-oxybis(1-Chloropropane)	(1)	5.490	45	83138	5.2620
28)	bis(2-Chloroisopropyl)ether	(1)	5.490	45	83138	5.2620
29)	N-Nitrosopyrrolidine	(1)	5.580	100	25512	4.7654
30)	Acetophenone	(1)	5.592	105	63655	5.0206
31)	N-Nitroso-di-n-propylamine	(1)	5.598	70	40587	5.2050
32)	N-Nitrosomorpholine	(1)	5.622	56	35857	5.1980
33)	4-Methylphenol	(1)	5.604	108	48700	4.7209
34)	o-Toluidine	(1)	5.622	106	73542	4.9944
37)	Hexachloroethane	(1)	5.676	117	16991	5.1898
39)	Nitrobenzene	(2)	5.735	77	51375	4.8757
40)	N-Nitrosopiperidine	(2)	5.873	114	23390	4.8700
41)	Isophorone	(2)	5.957	82	98867	4.9992
42)	2-Nitrophenol	(2)	6.017	139	21937	4.6442
44)	2,4-Dimethylphenol	(2)	6.070	107	46355	4.9145
45)	O,O,O-triethylphosphorothioate	(2)	6.142	198	19664	4.9372
46)	bis(2-Chloroethoxy)methane	(2)	6.160	93	60189	4.7877
47)	Benzoic acid	(2)	6.142	105	122062	14.1574
49)	2,4-Dichlorophenol	(2)	6.226	162	32877	4.7314
50)	1,2,4-Trichlorobenzene	(2)	6.304	180	36580	4.9810
52)	Naphthalene-d8	(2)	6.346	136	476397	20.0000
53)	Naphthalene	(2)	6.364	128	128549	4.9398
56)	4-Chloroaniline	(2)	6.423	127	56532	4.9028
57)	2,6-Dichlorophenol	(2)	6.423	162	34180	4.9173
58)	Hexachloropropene	(2)	6.447	213	16167	4.4761
60)	Hexachlorobutadiene	(2)	6.483	225	16214	5.1998

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
63) Caprolactam	(2)	6.723	113	17523	4.5949
64) N-Nitrosodi-n-butylamine	(2)	6.717	84	50129	5.8380
68) 4-Chloro-3-methylphenol	(2)	6.836	107	44191	4.9901
69) Safrole	(2)	6.896	162	33266	4.9099
70) 2-Methylnaphthalene	(2)	6.956	142	88112	5.0071
71) 1-Methylnaphthalene	(2)	7.040	142	81887	4.9570
72) Hexachlorocyclopentadiene	(3)	7.093	237	12360	3.9967
73) 1,2,4,5-Tetrachlorobenzene	(3)	7.099	216	33567	4.9912
74) cis-Isosafrole	(3)	7.141	162	5875	0.5307
75) 2,4,6-Trichlorophenol	(3)	7.195	196	24732	4.8479
77) 2,4,5-Trichlorophenol	(3)	7.219	196	28946	4.9227
79) trans-Isosafrole	(3)	7.327	162	32521	4.0697
80) Isosafrole	(3)	7.327	162	32521	4.5727
83) 1,1'-Biphenyl	(3)	7.351	154	110348	5.1469
84) 2-Chloronaphthalene	(3)	7.363	162	87045	4.2327
85) 1-Chloronaphthalene	(3)	7.381	162	89635 A	5.3712
88) Diphenyl ether	(3)	7.446	170	59171	5.1614
89) 2-Nitroaniline	(3)	7.446	138	27864	4.4811
90) 1,4-Naphthoquinone	(3)	7.512	158	36905	4.9063
91) 1,4-Dinitrobenzene	(3)	7.566	168	12977	4.1341
92) Dimethylphthalate	(3)	7.614	163	103104	5.2115
93) 1,3-Dinitrobenzene	(3)	7.626	168	16192	4.3987
94) 2,6-Dinitrotoluene	(3)	7.656	165	22345	4.6781
95) Acenaphthylene	(3)	7.704	152	127341	4.9888
97) 3-Nitroaniline	(3)	7.787	138	26281	4.7415
98) Acenaphthene-d10	(3)	7.823	164	304928	20.0000
99) Acenaphthene	(3)	7.847	153	88111	5.1570
100) 2,4-Dinitrophenol	(3)	7.871	184	33996	11.8455
101) Pentachlorobenzene	(3)	7.955	250	27337	5.1393
103) 4-Nitrophenol	(3)	7.925	109	24169	8.3141
104) Dibenzofuran	(3)	7.991	168	122980	5.1021
105) 2,4-Dinitrotoluene	(3)	7.985	165	30028	4.7418
106) 1-Naphthylamine	(3)	8.057	143	96722	4.9023
107) 2,3,4,6-Tetrachlorophenol	(3)	8.092	232	20135	4.9036
108) 2-Naphthylamine	(3)	8.122	143	97795	4.8903
109) Diethylphthalate	(3)	8.194	149	99230	5.0612
110) Thionazin	(3)	8.260	107	20644	4.9714
111) Fluorene	(3)	8.272	166	102413	5.0323
112) 4-Chlorophenyl-phenylether	(3)	8.284	204	47034	5.1140
113) 5-Nitro-o-toluidine	(3)	8.284	152	34474	5.1746
114) 4-Nitroaniline	(3)	8.284	138	30896	5.0733
115) 4,6-Dinitro-2-methylphenol	(4)	8.314	198	28677	7.5391
117) N-Nitrosodiphenylamine	(4)	8.374	169	90469	5.0076

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
118)	1,2-Diphenylhydrazine	(4)	8.410	77	125154	4.9985
120)	Tetraethyldithiopyrophosphate	(4)	8.523	97	15970	4.7391
121)	1,3,5-Trinitrobenzene	(4)	8.583	213	7572	3.2679
122)	Diallate (peak 1)	(4)	8.619	86	48305	3.7631
123)	Phorate	(4)	8.625	75	75625	4.7479
124)	Phenacetin	(4)	8.631	108	61003	5.0541
125)	4-Bromophenyl-phenylether	(4)	8.679	248	21289	4.8046
126)	Diallate (peak 2)	(4)	8.691	86	10524	1.3137
127)	Hexachlorobenzene	(4)	8.721	284	20191	4.8143
128)	Dimethoate	(4)	8.757	87	48490	5.0435
129)	Diallate TRANS/CIS	(4)	23.156	86	58829	5.0583
131)	Pentachlorophenol	(4)	8.882	266	15369	4.7486
132)	Pentachloronitrobenzene	(4)	8.894	237	8102	4.3767
133)	4-Aminobiphenyl	(4)	8.888	169	86609	5.2678
134)	Pronamide	(4)	8.948	173	39876	4.5015
135)	Phenanthrene-d10	(4)	9.038	188	538020	20.0000
136)	Dinoseb	(4)	9.044	211	16598	3.2849
137)	Phenanthrene	(4)	9.056	178	154122	5.0640
138)	Anthracene	(4)	9.097	178	148805	4.8753
140)	Carbazole	(4)	9.229	167	147892	4.9888
141)	Methyl parathion	(4)	9.355	109	30245	4.3619
142)	Di-n-butylphthalate	(4)	9.540	149	163993	4.7658
143)	Parathion	(4)	9.678	109	18616	4.0582
144)	4-Nitroquinoline-1-oxide	(4)	9.690	190	7955	2.7738
146)	Isodrin	(4)	9.911	193	15219	4.6434
147)	Fluoranthene	(4)	10.031	202	148397	4.9853
152)	Benzidine	(5)	10.144	184	258618	12.4737
154)	Pyrene	(5)	10.210	202	170811	5.0412
158)	p-Dimethylaminoazobenzene	(5)	10.467	225	27501	4.3108
159)	Chlorobenzilate	(5)	10.509	139	49785	4.8285
160)	3,3'-Dimethylbenzidine	(5)	10.743	212	59918	3.4840
161)	Butylbenzylphthalate	(5)	10.767	149	74372	4.6694
162)	2-Acetylaminofluorene	(5)	10.958	181	59159	4.3337
164)	3,3'-Dichlorobenzidine	(5)	11.227	252	39918	4.3016
165)	4,4'-Methylenebis(2-Chloroanil	(5)	11.233	231	21581	4.3440
166)	Benzo(a)anthracene	(5)	11.239	228	131846	4.9181
167)	Pyrene-d10	(5)	10.198	212	628581	20.0000
168)	Chrysene	(5)	11.275	228	141331	5.1297
169)	bis(2-Ethylhexyl)phthalate	(5)	11.311	149	95827	4.5252
189)	6-Methylchrysene	(5)	11.730	242	88986	4.6522
190)	Dibenz(a,h)acridine	(6)	13.811	279	71172	4.2517
170)	Di-n-octylphthalate	(6)	11.993	149	135047	3.9022
191)	Dibenz(a,j)acridine	(6)	13.871	279	85661	4.6033

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

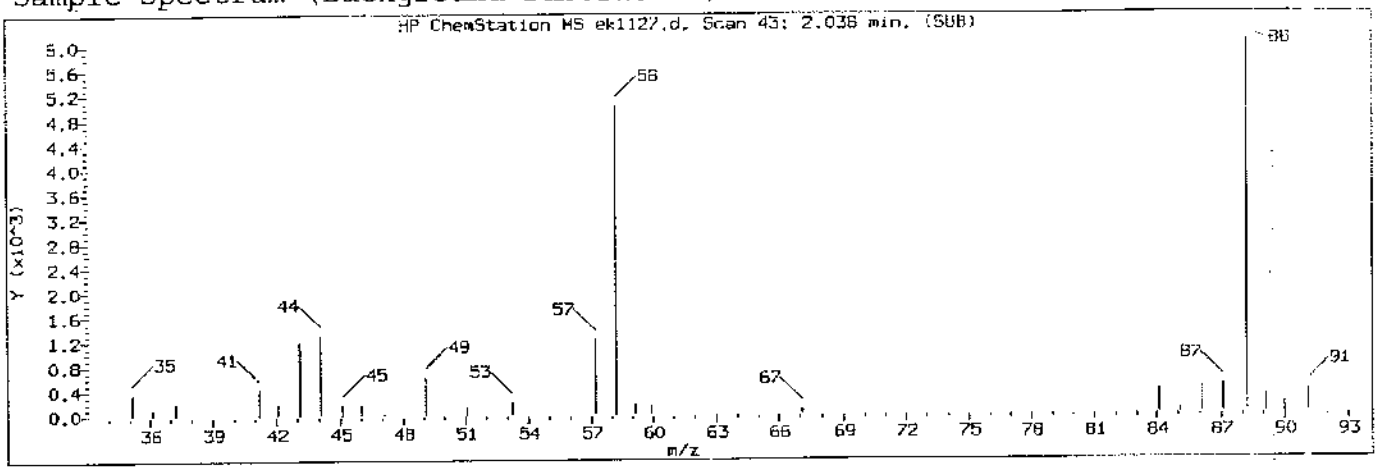
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

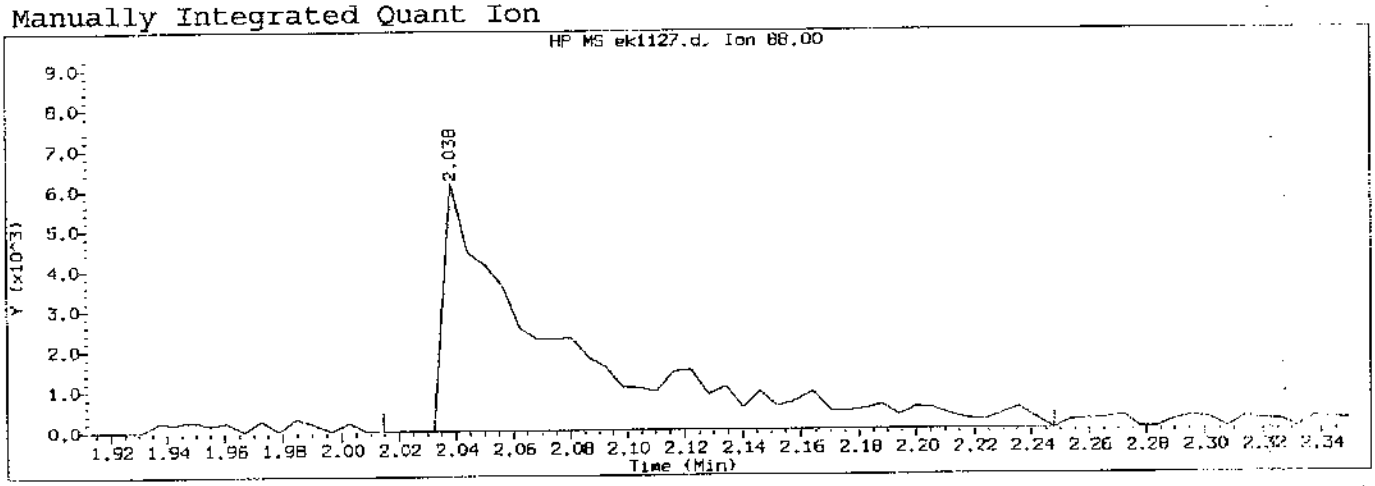
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
171)	7,12-Dimethylbenz[a]anthracene	(6)	12.364	256	48569	4.1252
172)	Benzo(b)fluoranthene	(6)	12.364	252	119584M	4.6731
194)	Quinoline	(2)	6.657	129	91105	5.0833
173)	Benzo(k)fluoranthene	(6)	12.394	252	124048M	4.8697
174)	Benzo(a)pyrene	(6)	12.735	252	101980	4.4673
175)	Perylene-d12	(6)	12.800	264	422458	20.0000
202)	NDPA as diphenylamine	(4)	8.374	169	90469	5.0076
176)	3-Methylcholanthrene	(6)	13.159	268	50743	4.3703
177)	Indeno(1,2,3-cd)pyrene	(6)	14.075	276	111078	4.7440
178)	Dibenz(a,h)anthracene	(6)	14.111	278	92306	4.6040
206)	Indene	(1)	5.448	115	64672	4.8007
179)	Benzo(g,h,i)perylene	(6)	14.392	276	91057	4.5875
9)	2-Fluorophenol	(1)	3.929	112	38225	4.7420
14)	Phenol-d5	(1)	4.886	99	56434	4.8389
15)	Phenol-d6	(1)	4.886	99	56434	4.8389
38)	Nitrobenzene-d5	(2)	5.718	82	51126	4.9432
78)	2-Fluorobiphenyl	(3)	7.273	172	95238	5.1613
119)	2,4,6-Tribromophenol	(3)	8.469	330	8438	4.6476
156)	Terphenyl-d14	(5)	10.354	244	94274	4.9720

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number : 1
Compound Name : 1,4-Dioxane
Scan Number : 43
Retention Time (minutes): 2.038
Quant Ion : 88
Area (flag) : 17194 M
Concentration (ng/ul) : 5.4790
Integration start scan : 38 Integration stop scan: 77
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: MEB 11/23/11

GC/MS audit/management approval: Matthew E. Barton

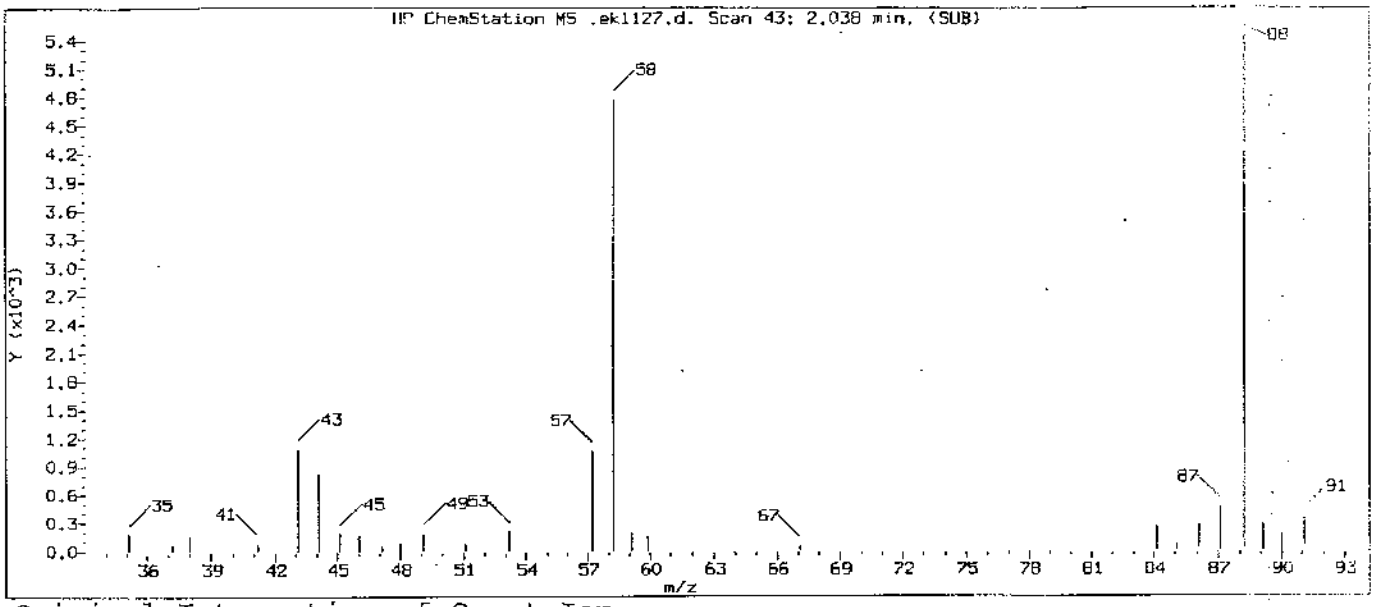
PCH89 8699

NOV 25 2011

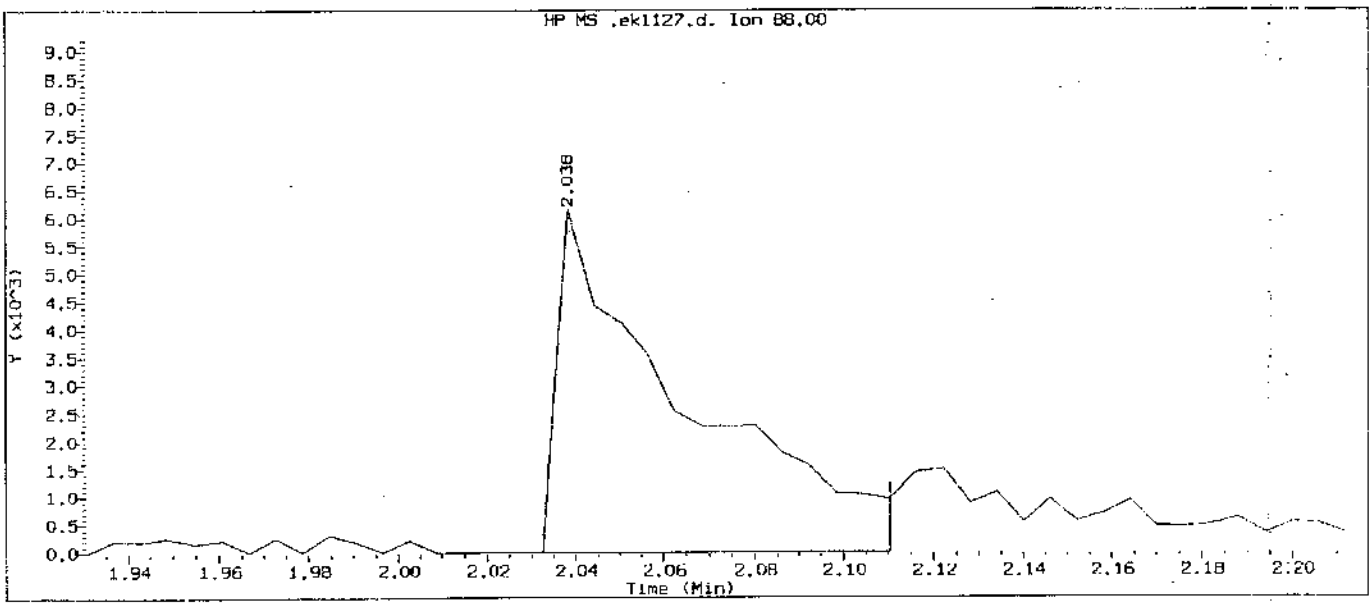
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

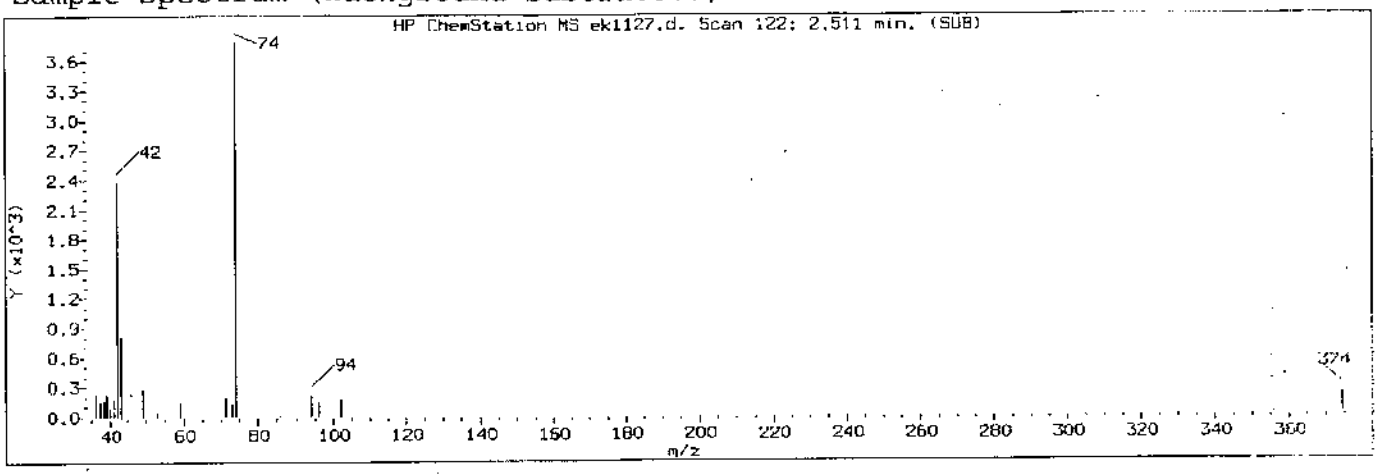
Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number : 1
Compound Name : 1,4-Dioxane
Scan Number : 43
Retention Time (minutes): 2.038
Quant Ion : 88
Area : 12055
Concentration (ng/ul) : 4.0634
Integration start scan : 41 Integration stop scan: 54
Y at integration start : 0 Y at integration end: 0

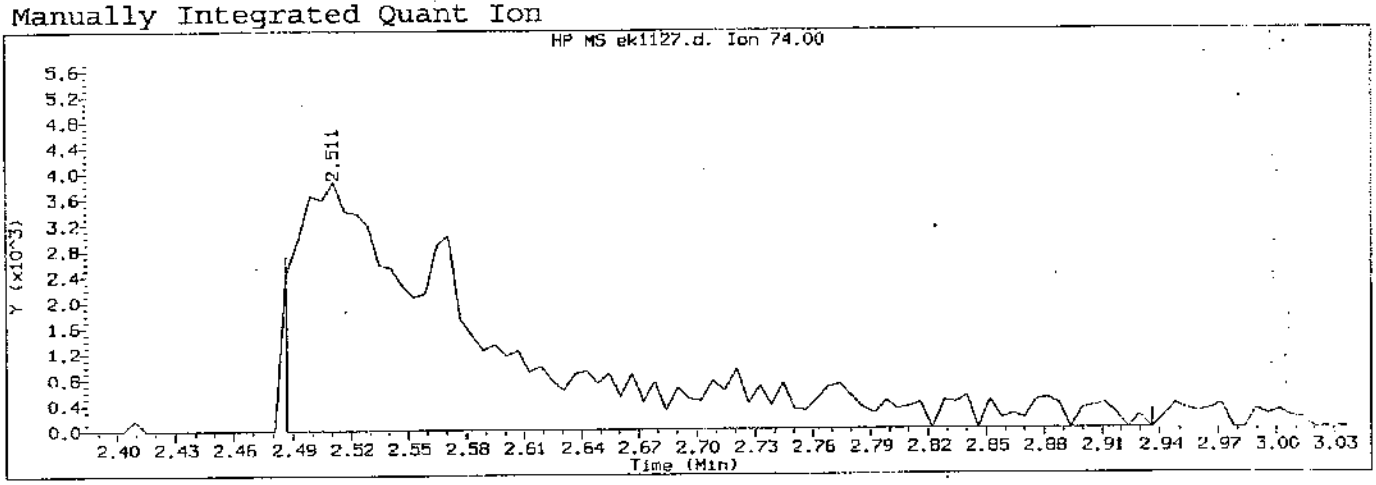
PCH09 8700

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:27

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number : 2
Compound Name : N-Nitrosodimethylamine
Scan Number : 122
Retention Time (minutes): 2.511
Quant Ion : 74
Area (flag) : 27778 M
Concentration (ng/ul) : 5.0812
Integration start scan : 117 Integration stop scan: 192
Y at integration start : 4 Y at integration end: 4

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Matthew E Barton 11/23/11

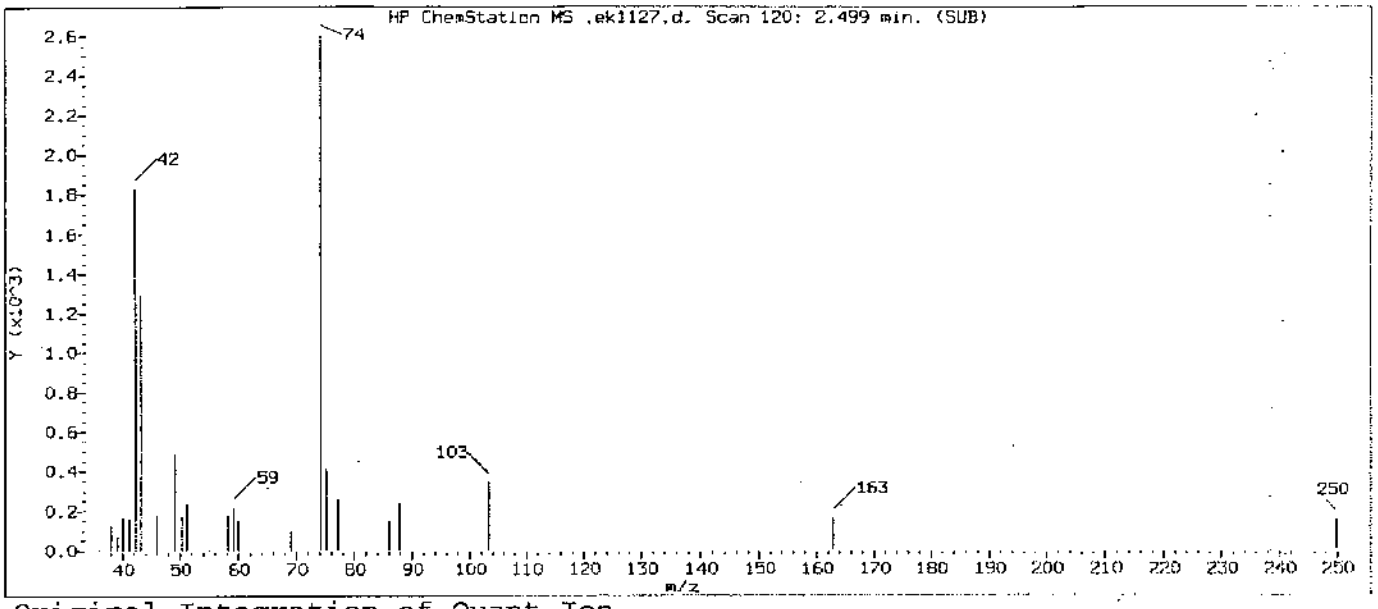
GC/MS audit/management approval: Matthew E Barton PCH89 8781

NOV 25 2011

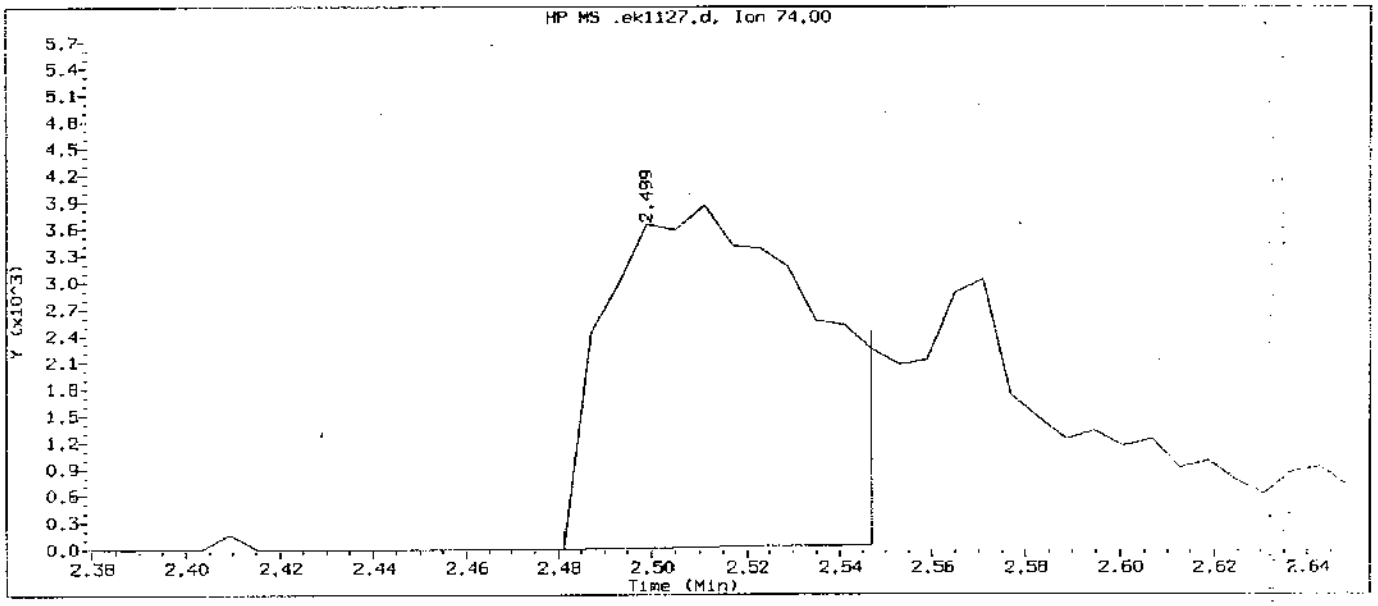
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

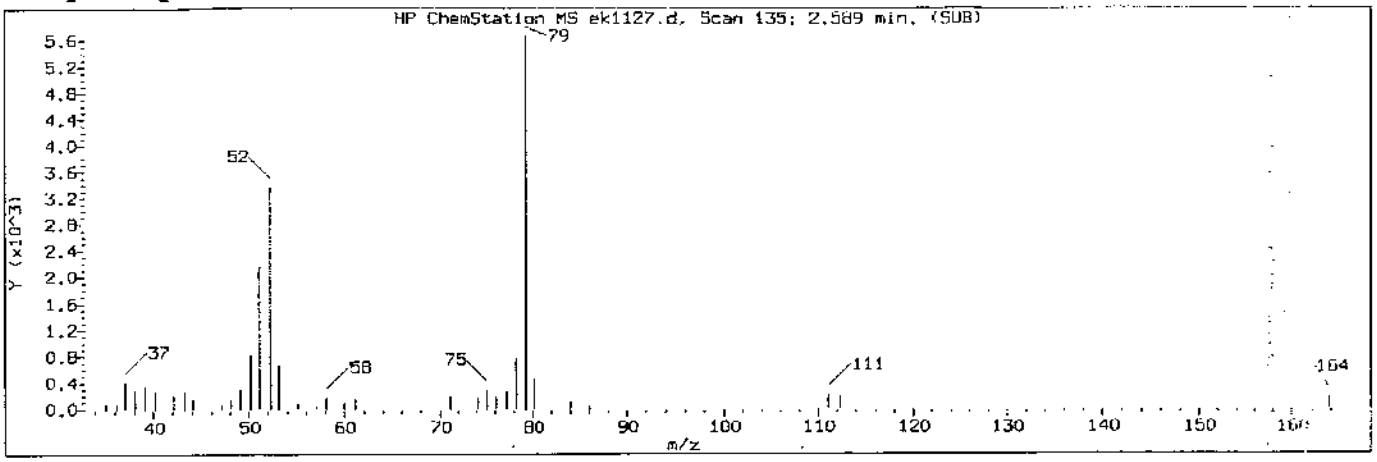
Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number	: 2
Compound Name	: N-Nitrosodimethylamine
Scan Number	: 120
Retention Time (minutes)	: 2.499
Quant Ion	: 74
Area	: 11641
Concentration (ng/ul)	: 2.5018
Integration start scan	: 116 Integration stop scan: 127
Y at integration start	: 0 Y at integration end: 50

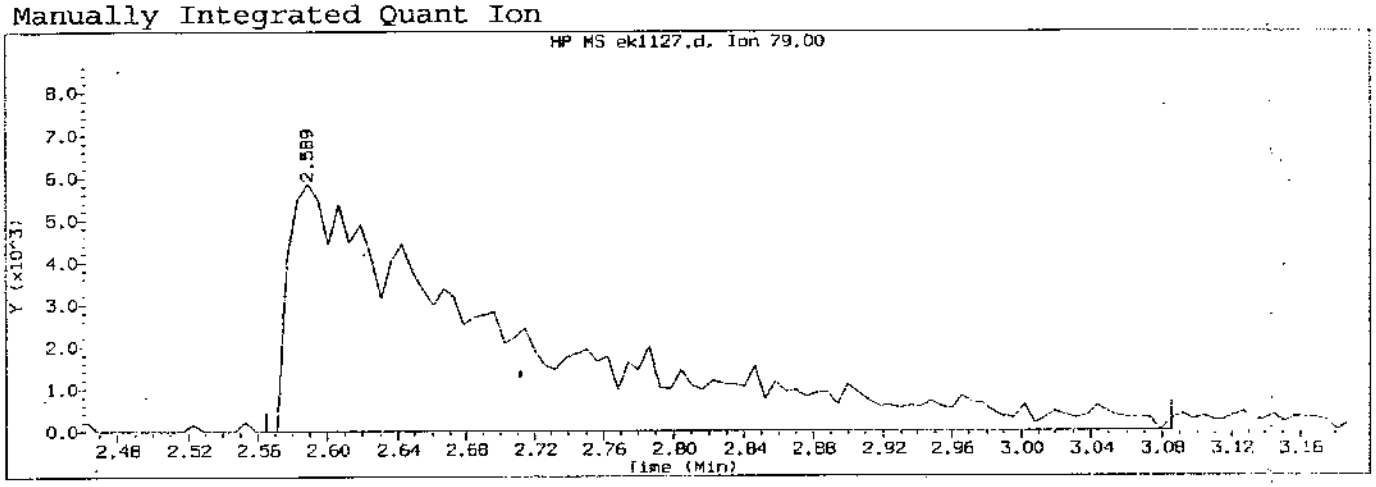
PCH89 8782

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:27

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number : 3
Compound Name : Pyridine
Scan Number : 135
Retention Time (minutes): 2.589
Quant Ion : 79
Area (flag) : 51708 M
Concentration (ng/ul) : 5.5780
Integration start scan : 130 Integration stop scan: 217
Y at integration start : -2 Y at integration end: -2

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

GC/MS audit/management approval: _____

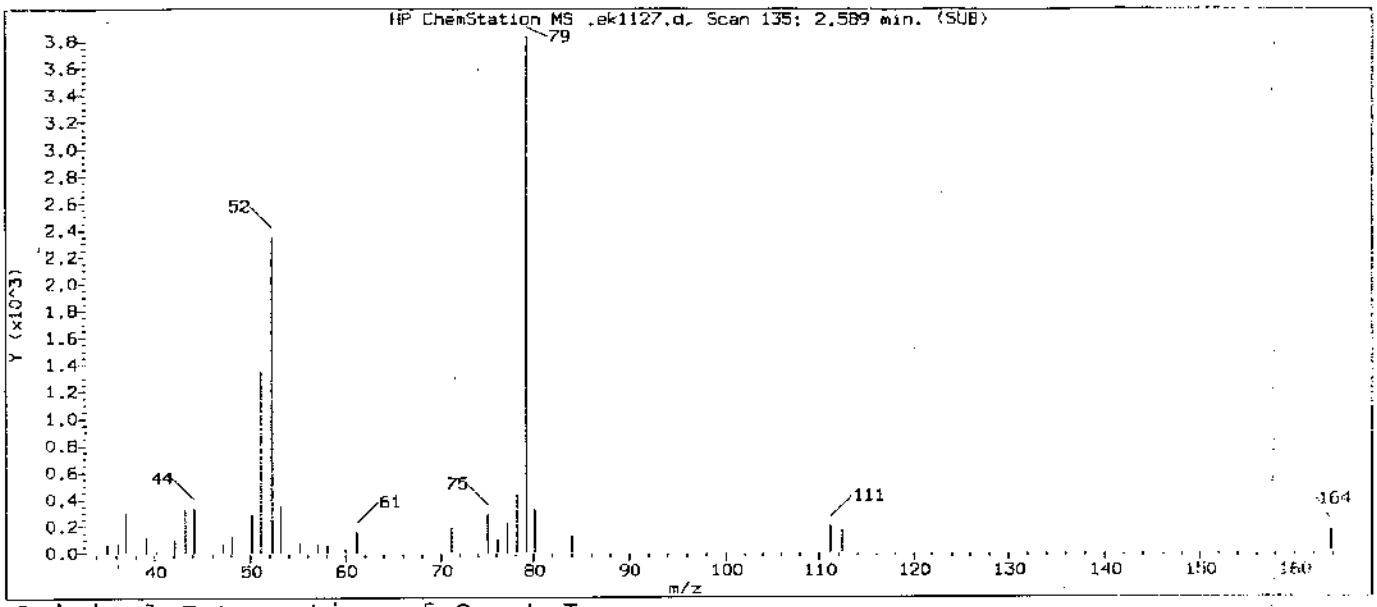
PCH89 0783

NOV 25 2011

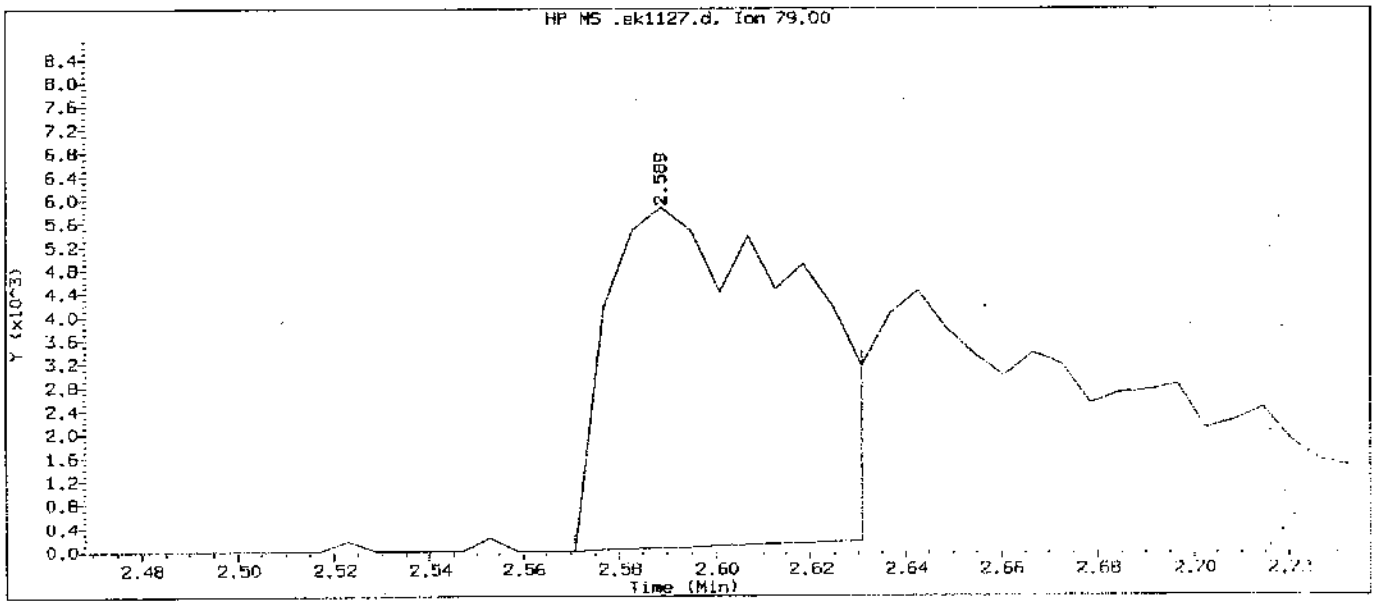
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

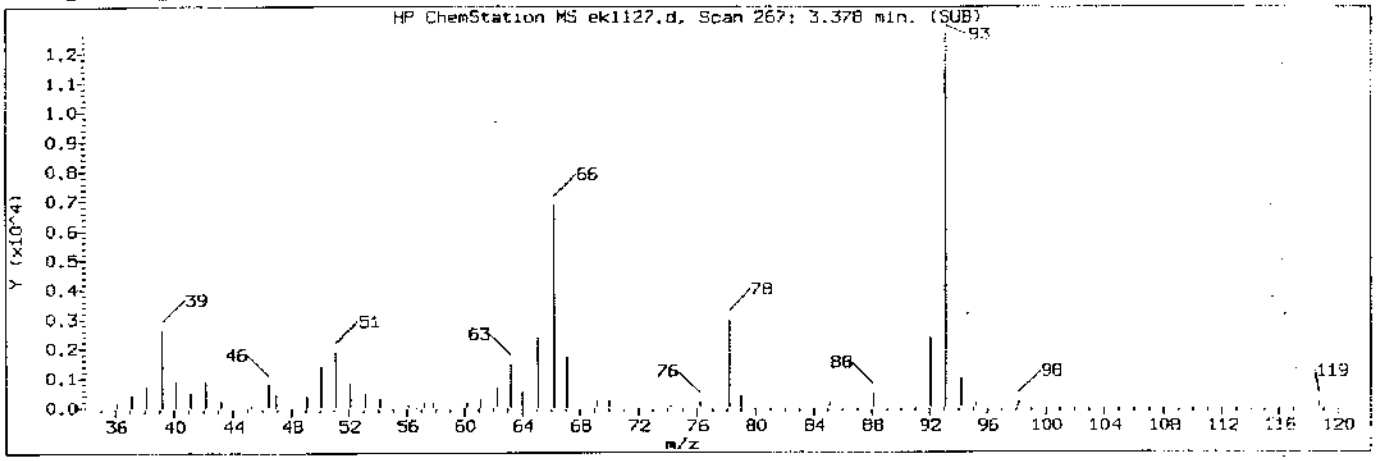
Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number	: 3
Compound Name	: Pyridine
Scan Number	: 135
Retention Time (minutes)	: 2.589
Quant Ion	: 79
Area	: 16159
Concentration (ng/ul)	: 2.3382
Integration start scan	: 131 Integration stop scan: 141
Y at integration start	: 0 Y at integration end: 159

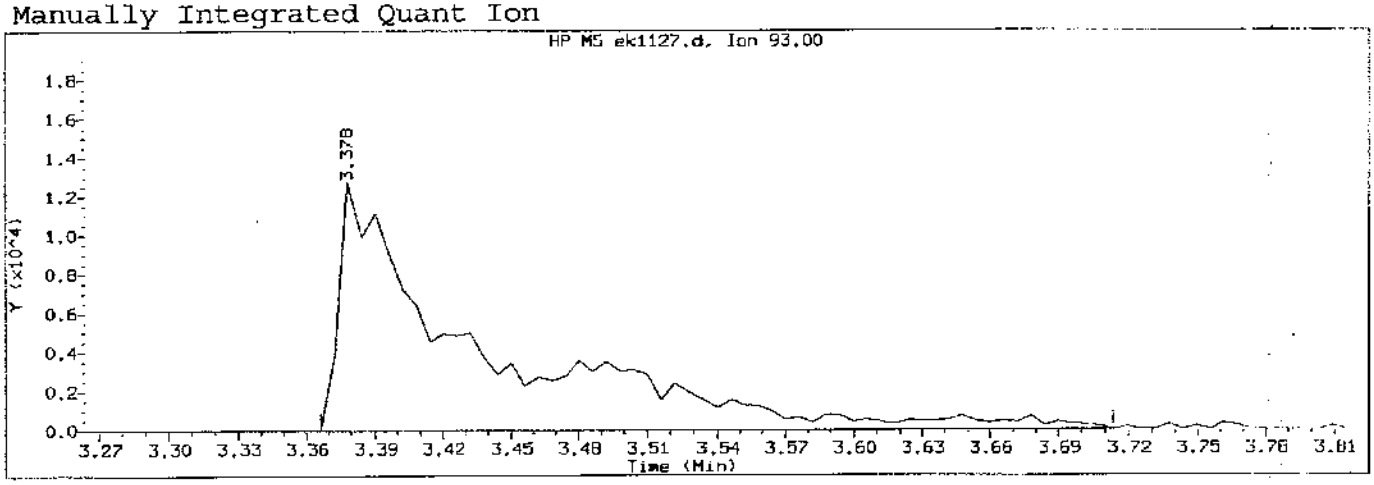
PCH09 6784

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:27

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number	: 5
Compound Name	: 2-Picoline
Scan Number	: 267
Retention Time (minutes)	: 3.378
Quant Ion	: 93
Area (flag)	: 51283 M
Concentration (ng/ul)	: 5.4381
Integration start scan	: 264 Integration stop scan: 322
Y at integration start	: 3 Y at integration end: 3

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature]

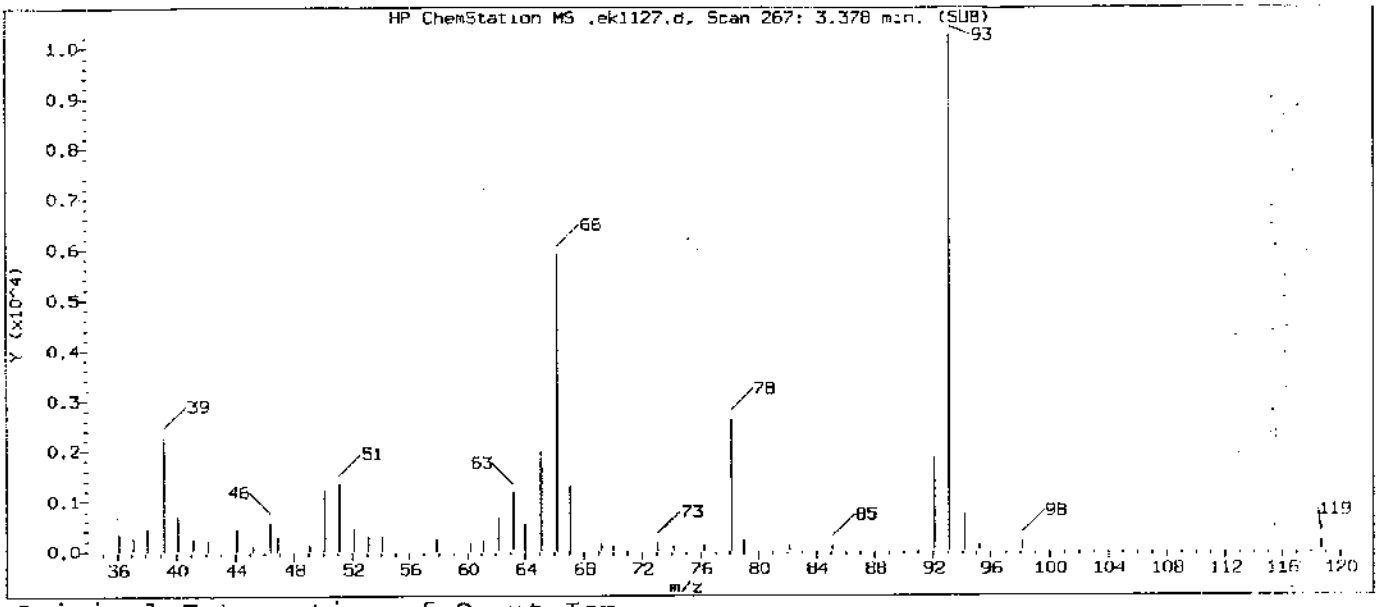
GC/MS audit/management approval: [signature] PCH89 8785

NOV 25 2011

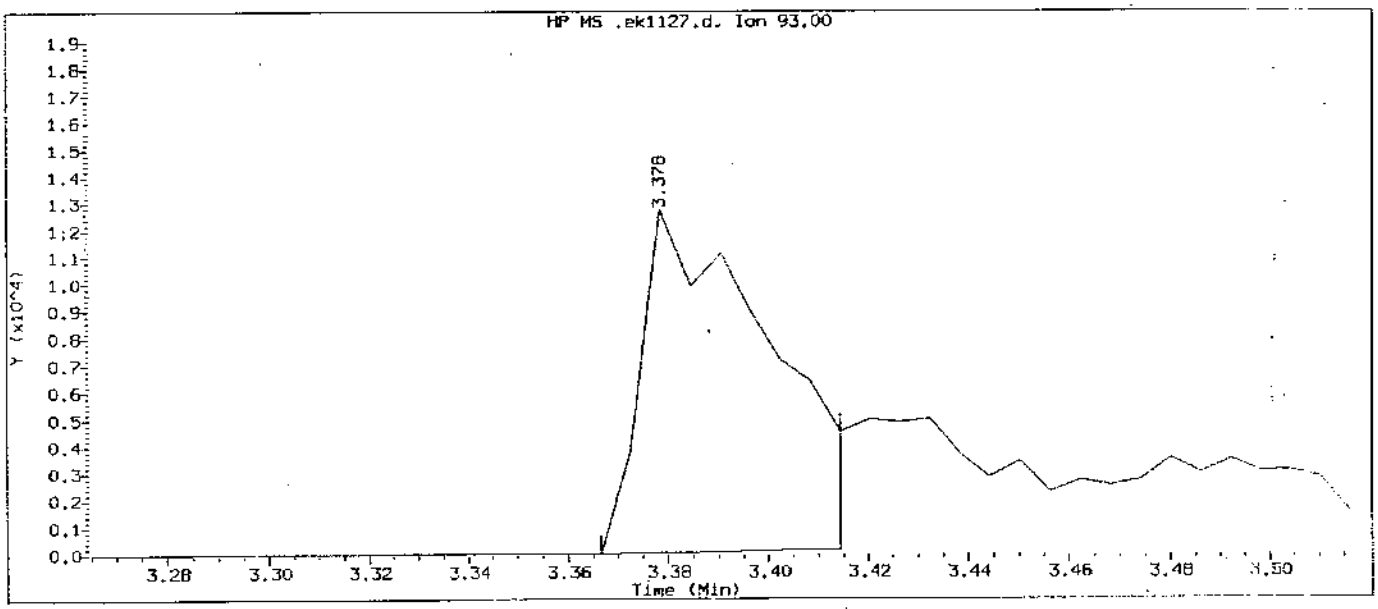
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

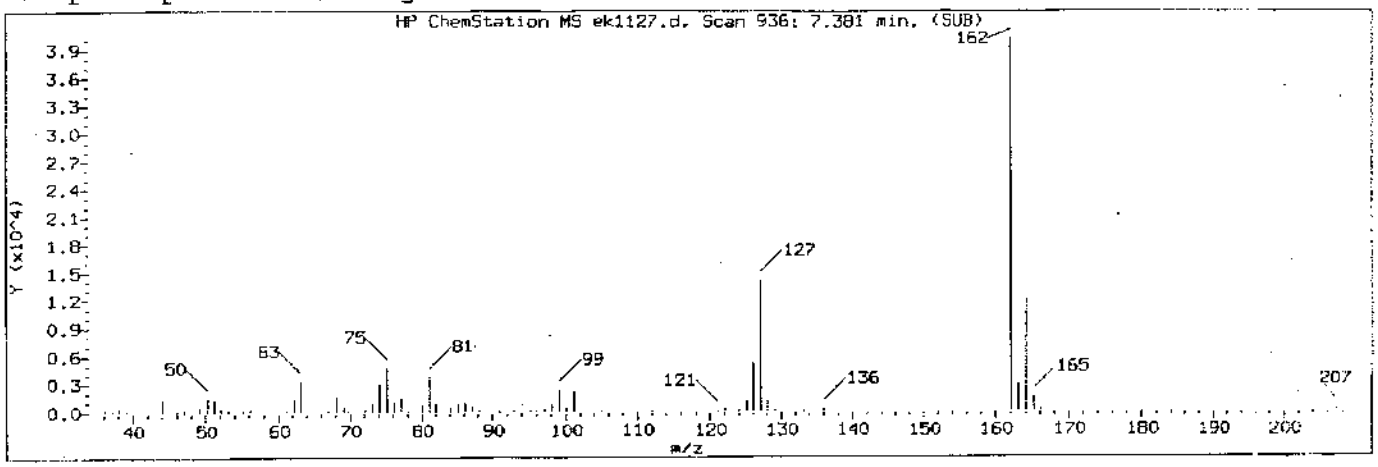
Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number : 5
Compound Name : 2-Picoline
Scan Number : 267
Retention Time (minutes): 3.378
Quant Ion : 93
Area : 22221
Concentration (ng/ul) : 2.6261
Integration start scan : 264 Integration stop scan: 272
Y at integration start : 0 Y at integration end: 125

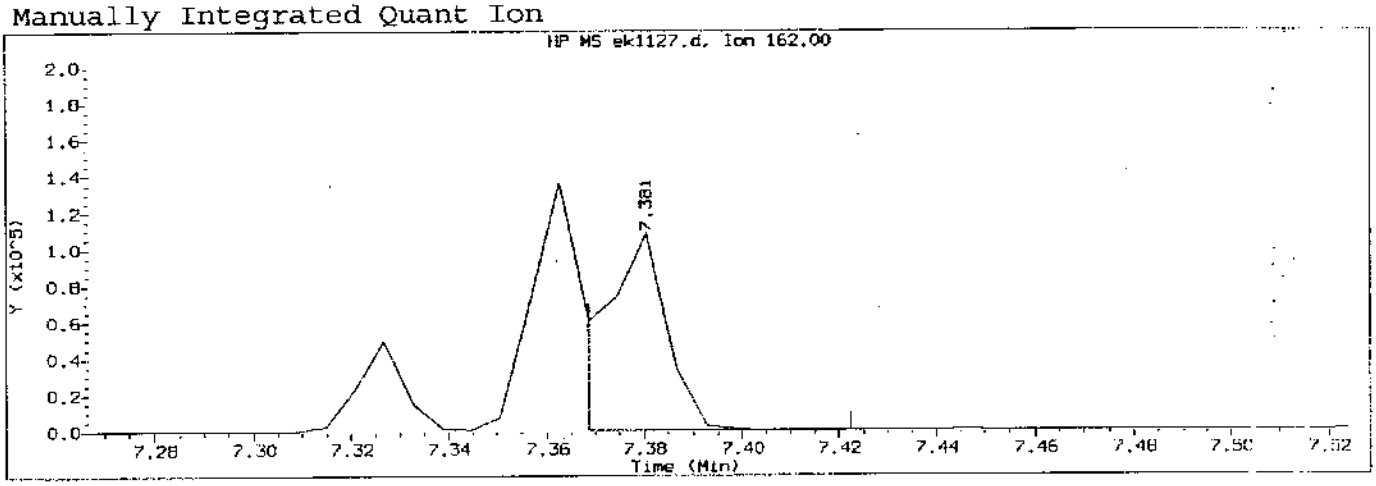
PCH89 8786

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number	: 85
Compound Name	: 1-Chloronaphthalene
Scan Number	: 936
Retention Time (minutes)	: 7.381
Quant Ion	: 162
Area (flag)	: 89635A
Concentration (ng/ul)	: 5.3712
Integration start scan	: 933 Integration stop scan: 942
Y at integration start	: 110 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

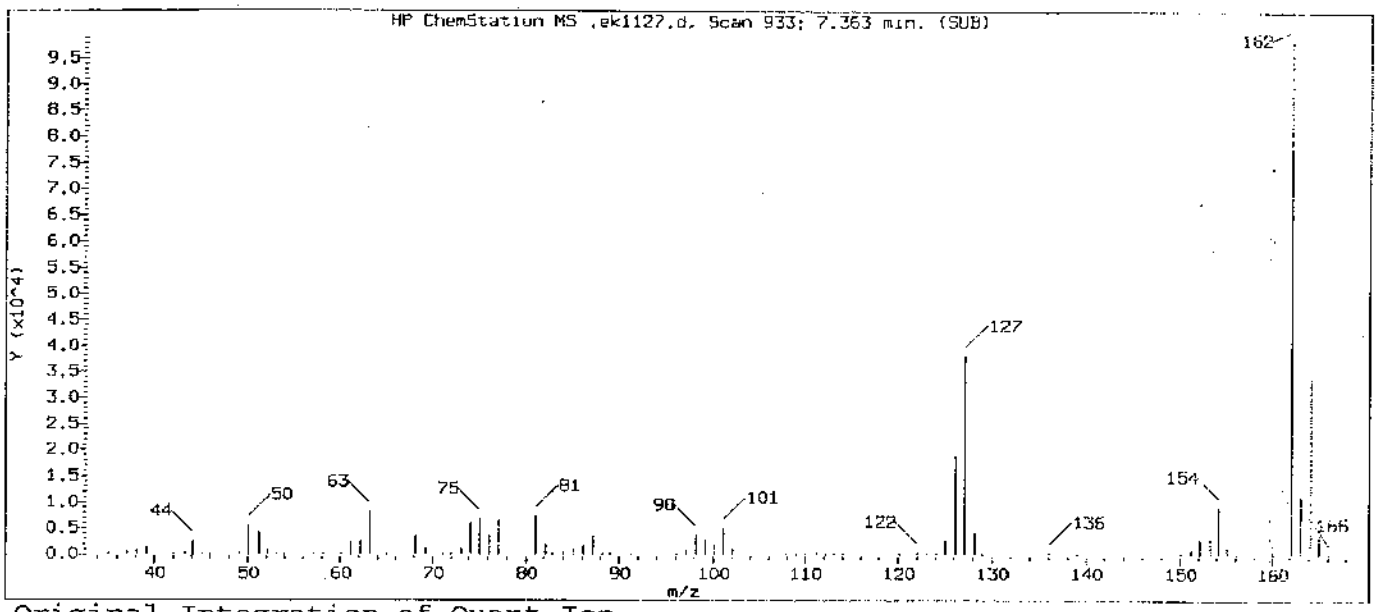
GC/MS audit/management approval: _____ PCH09 5787

NOV 25 2011

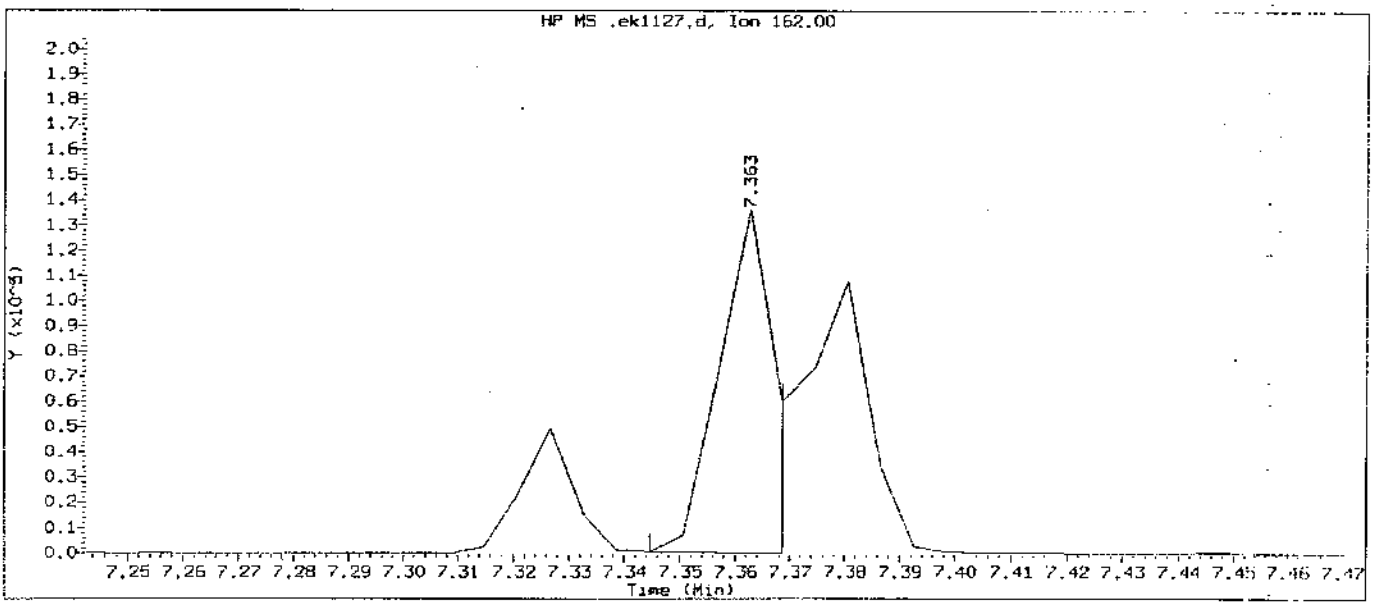
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

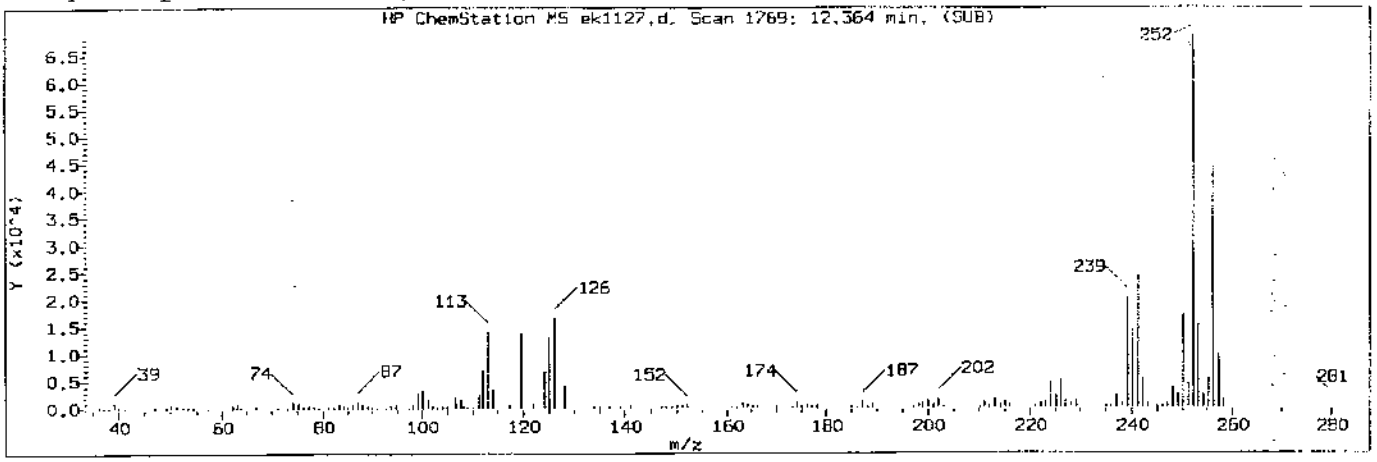
Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number	:	85
Compound Name	:	1-Chloronaphthalene
Scan Number	:	933
Retention Time (minutes)	:	7.363
Quant Ion	:	162
Area	:	87000
Concentration (ng/ul)	:	3.2251
Integration start scan	:	929
Integration stop scan	:	933
Y at integration start	:	132
Y at integration end	:	110

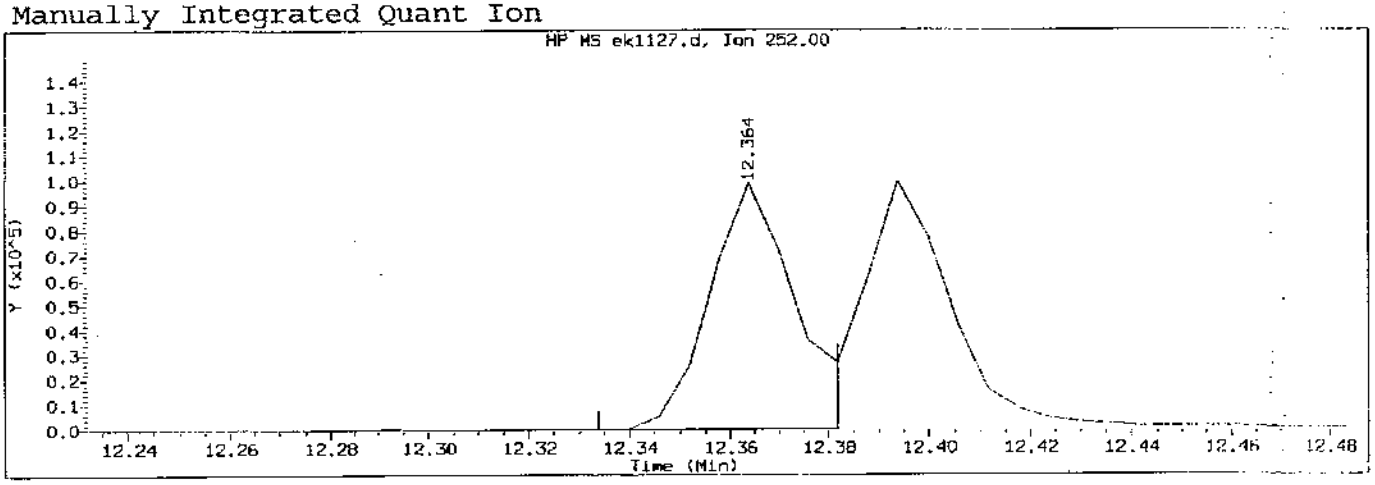
PCH09 8708

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1769
Retention Time (minutes): 12.364
Quant Ion : 252
Area (flag) : 119584 M
Concentration (ng/ul) : 4.6731
Integration start scan : 1763 Integration stop scan: 1771
Y at integration start : 0 Y at integration end: 87

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MW Lee 11/28/11

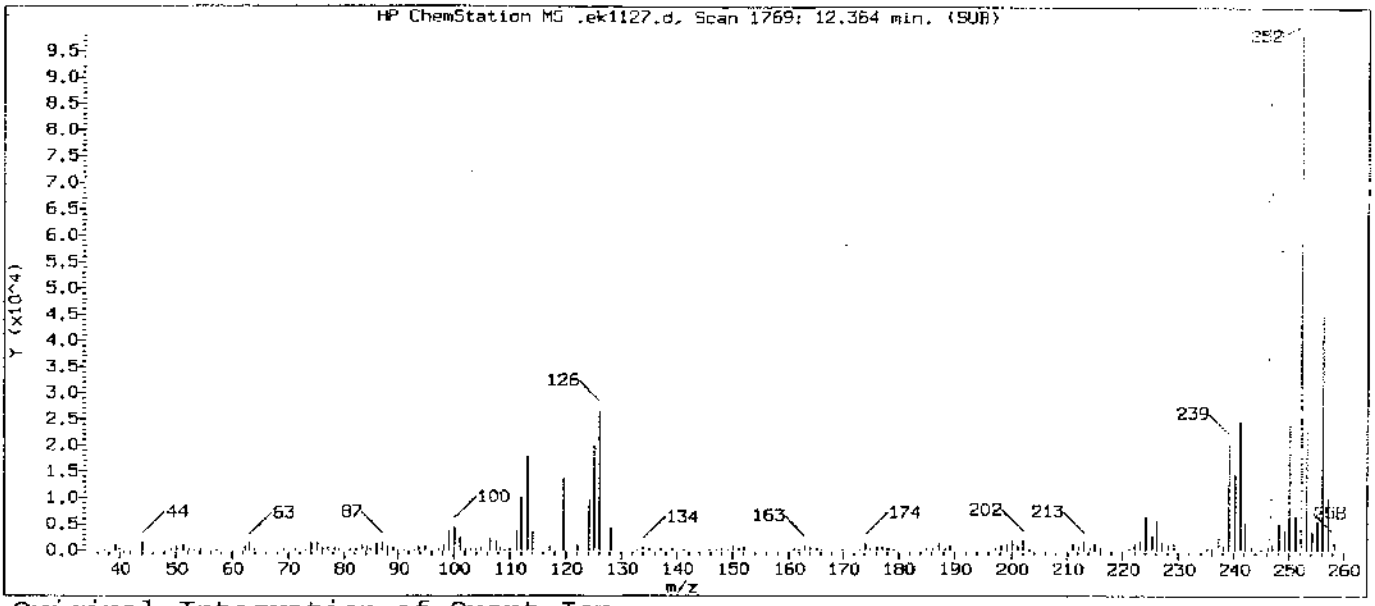
GC/MS audit/management approval: Matthew E Barton PCH89 8789

NOV 25 2011

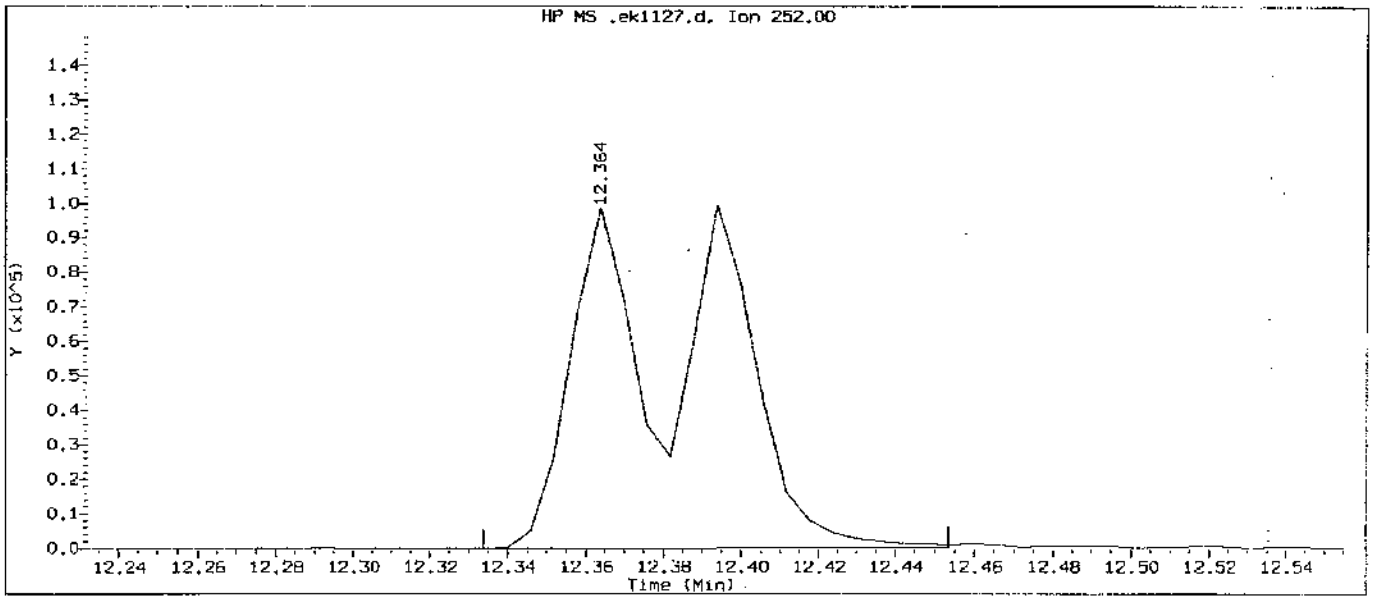
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 09:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

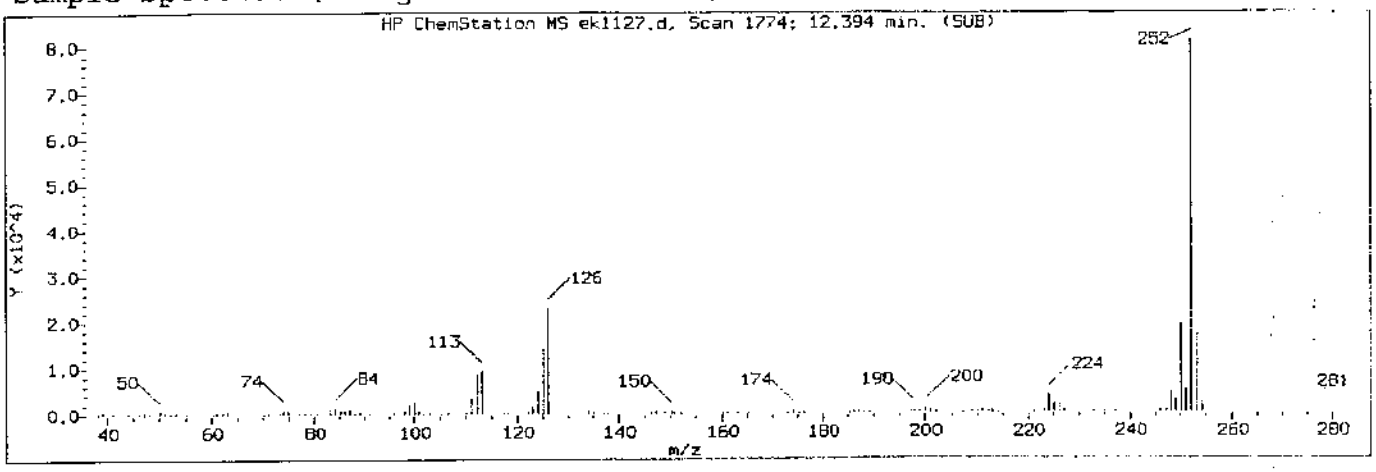
Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number	: 172
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1769
Retention Time (minutes)	: 12.364
Quant Ion	: 252
Area	: 232515
Concentration (ng/ul)	: 5.0963
Integration start scan	: 1763 Integration stop scan: 1783
Y at integration start	: 0 Y at integration end: 218

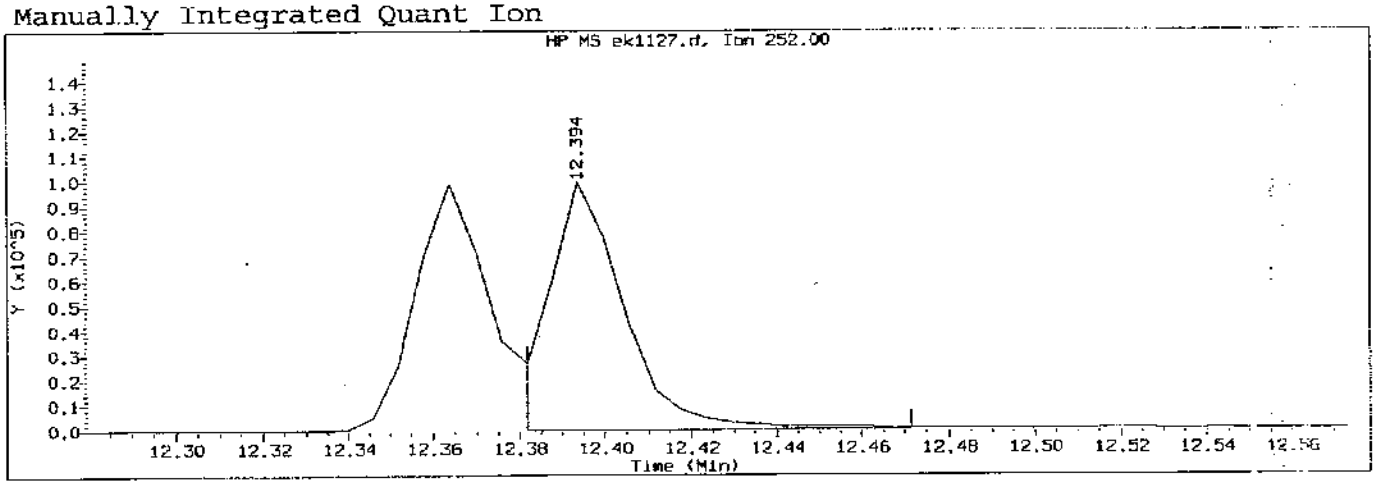
PCH09 8718

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:27
Date, time and analyst ID of latest file update: 23-Nov-2011 08:27 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1774
Retention Time (minutes)	:	12.394
Quant Ion	:	252
Area (flag)	:	124048 M
Concentration (ng/ul)	:	4.8697
Integration start scan	:	1771 Integration stop scan: 1786
Y at integration start	:	34 Y at integration end: 34

Reason for manual integration (circle one): missed peak improper integration

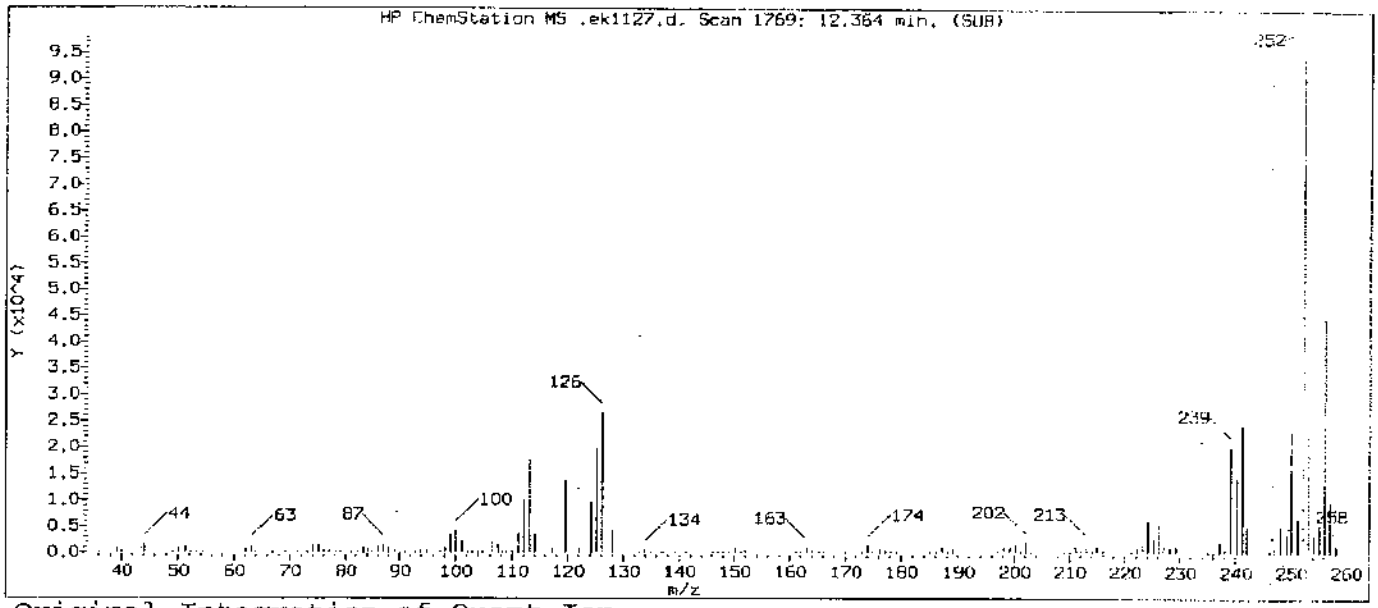
Analyst responsible for change: [signature]

GC/MS audit/management approval: [signature] NOV 25 2011 PCN89 8711

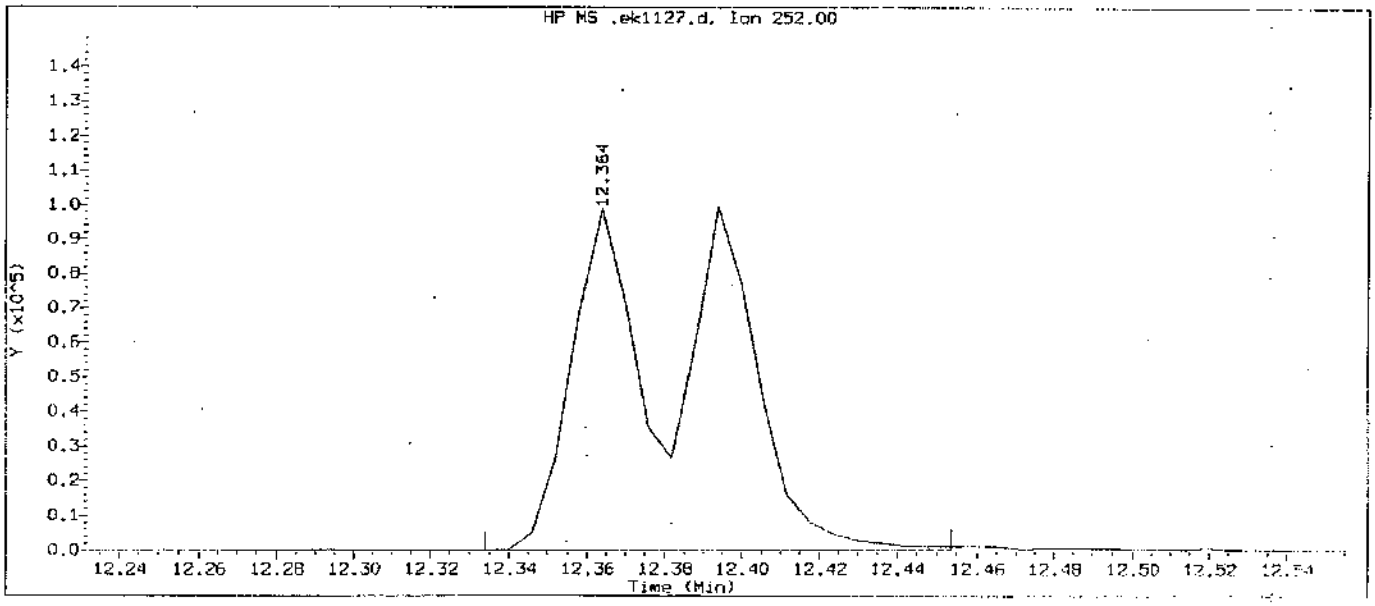
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:27

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1127.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:19 Analyst ID: jrr02820

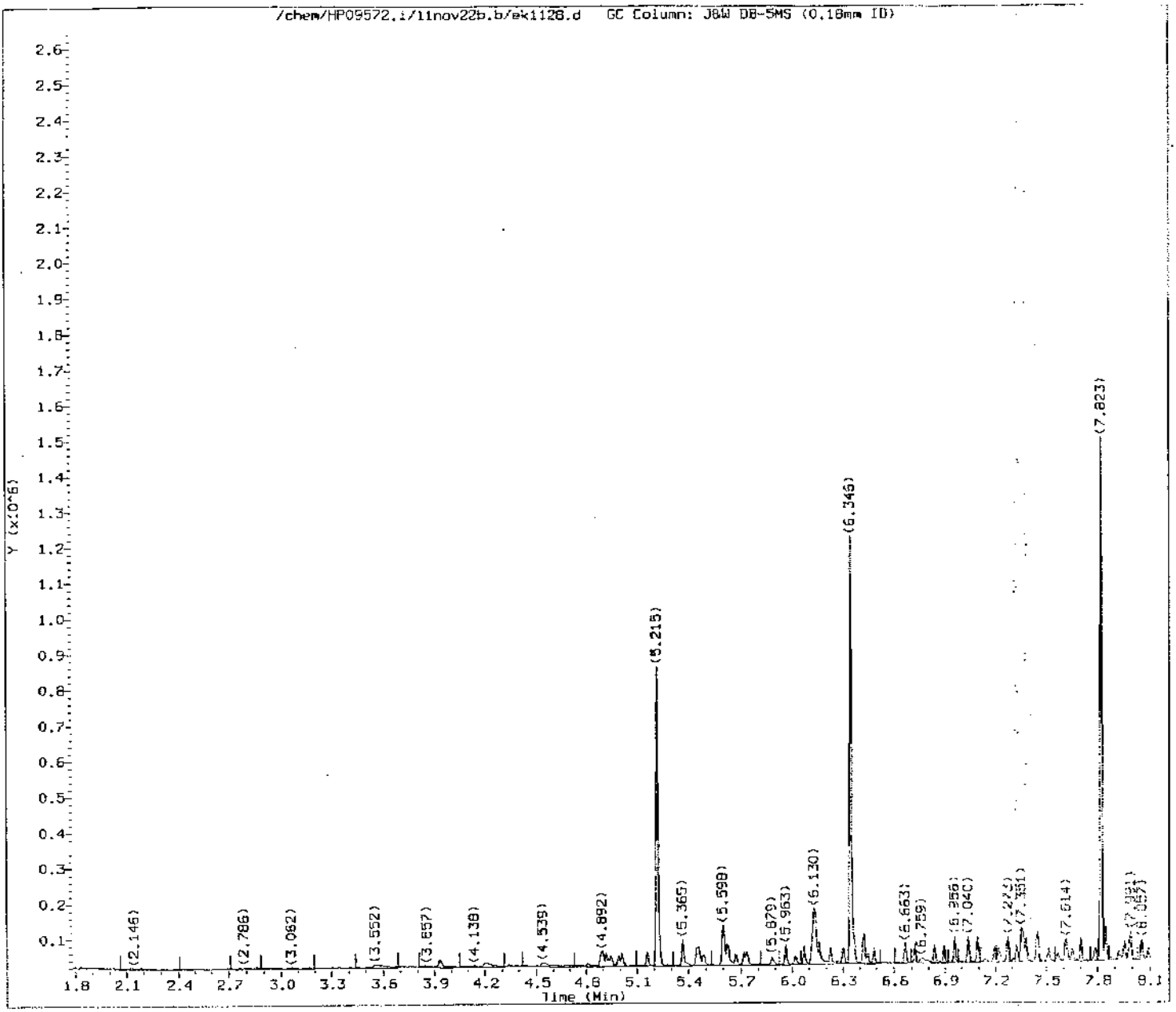
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:06
Date, time and analyst ID of latest file update: 23-Nov-2011 08:06 msw02109

Sample Name: SSTD005 Lab Sample ID: STD3191

Compound Number	: 173
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1769
Retention Time (minutes)	: 12.364
Quant Ion	: 252
Area	: 232516
Concentration (ng/ul)	: 5.1009
Integration start scan	: 1763 Integration stop scan: 1783
Y at integration start	: 0 Y at integration end: 218

PCH89 0712

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1127.d, generated on 11/23/2011 at 08:28



Quant Report

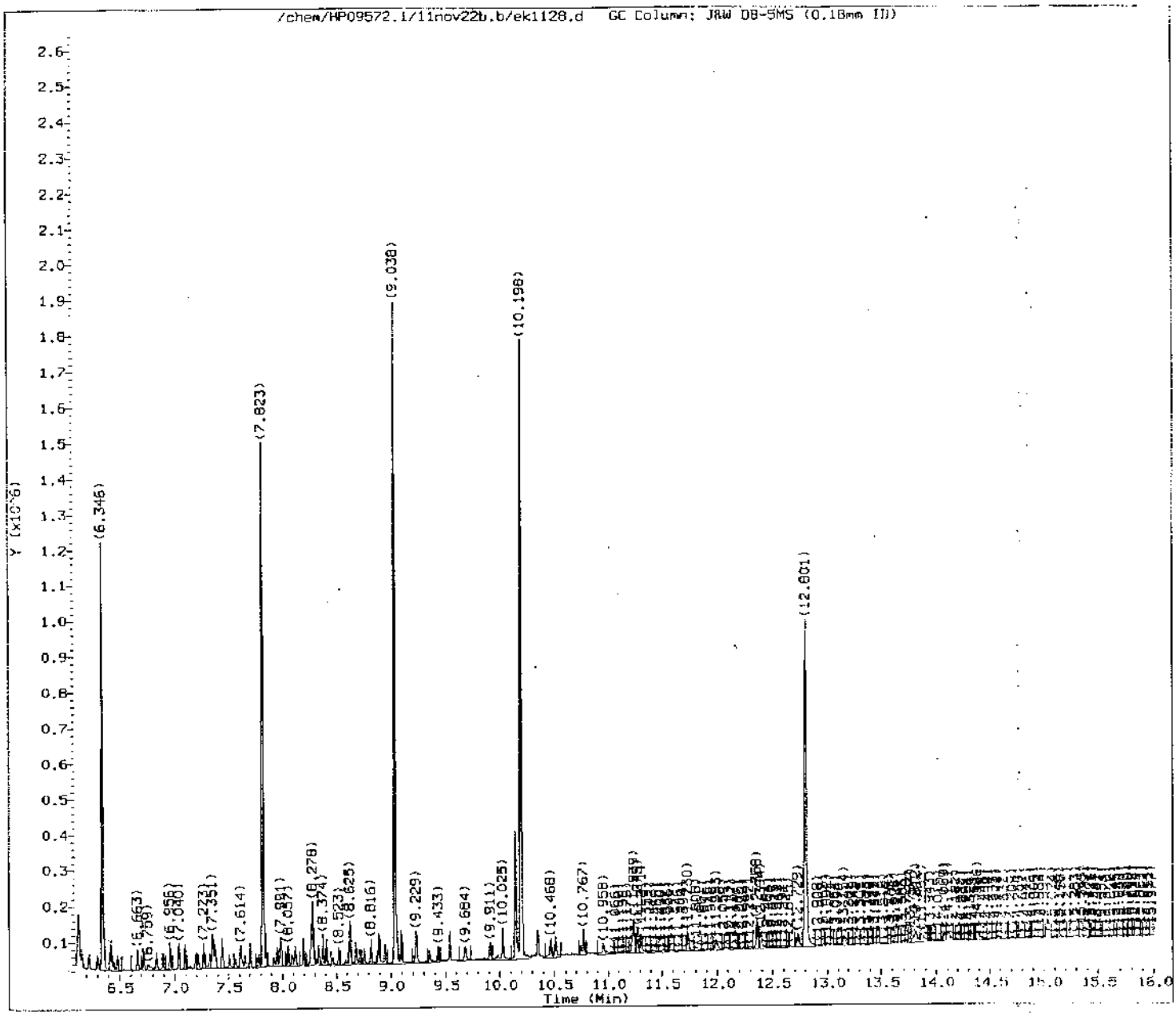
Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

CH69 6713



Quant Report

Target.Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

PCB69 8714

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.116	88	4610M	1.5653
2) N-Nitrosodimethylamine	(1)	2.744	74	5380M	1.0486
3) Pyridine	(1)	2.870	79	11812M	1.3578
5) 2-Picoline	(1)	3.582	93	10650M	1.2034
6) N-Nitrosomethylethylamine	(1)	3.570	88	5316	1.1883
7) Methyl methanesulfonate	(1)	3.851	80	4295M	1.0038
10) N-Nitrosodiethylamine	(1)	4.198	102	4384M	0.9972
11) Ethyl methanesulfonate	(1)	4.533	109	4309M	1.0225
13) Aniline	(1)	4.922	93	13790 A	0.9645
16) Phenol	(1)	4.898	94	12359	0.9872
18) bis(2-Chloroethyl)ether	(1)	4.994	93	9867	1.0630
19) 2-Chlorophenol	(1)	5.012	128	7474	0.9386
20) 1,3-Dichlorobenzene	(1)	5.155	146	8162	1.0490
21) 1,4-Dichlorobenzene-d4	(1)	5.215	152	97993	20.0000
22) 1,4-Dichlorobenzene	(1)	5.233	146	8175	1.0192
24) Benzyl alcohol	(1)	5.365	108	5611	0.9127
25) 1,2-Dichlorobenzene	(1)	5.365	146	7571	1.0095
26) 2-Methylphenol	(1)	5.460	108	7871	0.9745
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.484	45	17013	1.1237
28) bis(2-Chloroisopropyl)ether	(1)	5.484	45	17013	1.1237
29) N-Nitrosopyrrolidine	(1)	5.598	100	3908	0.8033
30) Acetophenone	(1)	5.592	105	12555	1.0469
31) N-Nitroso-di-n-propylamine	(1)	5.604	70	7431	1.0132
32) N-Nitrosomorpholine	(1)	5.634	56	6962	1.0754
33) 4-Methylphenol	(1)	5.604	108	9173	0.9547
34) o-Toluidine	(1)	5.622	106	14027	1.0129
37) Hexachloroethane	(1)	5.670	117	3510	1.1424
39) Nitrobenzene	(2)	5.736	77	9501	1.0032
40) N-Nitrosopiperidine	(2)	5.879	114	3983	0.9334
41) Isophorone	(2)	5.963	82	18199	1.0208
42) 2-Nitrophenol	(2)	6.017	139	3545	0.8555
44) 2,4-Dimethylphenol	(2)	6.071	107	7863	0.9376
45) O,O,O-triethylphosphorothioate	(2)	6.142	198	3458	0.9665
46) bis(2-Chloroethoxy)methane	(2)	6.160	93	12039	1.0561
47) Benzoic acid	(2)	6.130	105	63776	8.2341
49) 2,4-Dichlorophenol	(2)	6.226	162	6112	0.9821
50) 1,2,4-Trichlorobenzene	(2)	6.304	180	6865	1.0406
52) Naphthalene-d8	(2)	6.346	136	427967	20.0000
53) Naphthalene	(2)	6.364	128	24356	1.0364
56) 4-Chloroaniline	(2)	6.424	127	10339	0.9984
57) 2,6-Dichlorophenol	(2)	6.424	162	6037	0.9714
58) Hexachloropropene	(2)	6.447	213	2871	0.8848
60) Hexachlorobutadiene	(2)	6.483	225	3161	1.1081

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
63)	Caprolactam	(2)	6.753	113	2878M	0.8401
64)	N-Nitrosodi-n-butylamine	(2)	6.717	84	6670	0.8647
68)	4-Chloro-3-methylphenol	(2)	6.836	107	7985	1.0032
69)	Safrole	(2)	6.896	162	5287	0.8686
70)	2-Methylnaphthalene	(2)	6.956	142	16464	1.0361
71)	1-Methylnaphthalene	(2)	7.040	142	15863	1.0598
72)	Hexachlorocyclopentadiene	(3)	7.094	237	2036	0.7107
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.100	216	6691	1.0627
74)	cis-Isosafrole	(3)	7.141	162	1161	0.1132
75)	2,4,6-Trichlorophenol	(3)	7.195	196	4782	1.0101
77)	2,4,5-Trichlorophenol	(3)	7.219	196	5661	1.0335
79)	trans-Isosafrole	(3)	7.327	162	5966	0.8059
80)	Isosafrole	(3)	7.327	162	5966	0.9055
83)	1,1'-Biphenyl	(3)	7.351	154	20666	1.0345
84)	2-Chloronaphthalene	(3)	7.363	162	15844	0.8522
85)	1-Chloronaphthalene	(3)	7.381	162	16741 A	1.0702
88)	Diphenyl ether	(3)	7.441	170	10815	1.0157
89)	2-Nitroaniline	(3)	7.447	138	5082	0.8973
90)	1,4-Naphthoquinone	(3)	7.512	158	5820	0.8352
91)	1,4-Dinitrobenzene	(3)	7.566	168	1887	0.6489
92)	Dimethylphthalate	(3)	7.614	163	20718	1.1304
93)	1,3-Dinitrobenzene	(3)	7.626	168	2184	0.6405
94)	2,6-Dinitrotoluene	(3)	7.656	165	3475	0.8102
95)	Acenaphthylene	(3)	7.704	152	22881	0.9716
97)	3-Nitroaniline	(3)	7.787	138	4643	0.9168
98)	Acenaphthene-d10	(3)	7.823	164	282478	20.0000
99)	Acenaphthene	(3)	7.847	153	16674	1.0465
100)	2,4-Dinitrophenol	(3)	7.877	184	728	0.2738
101)	Pentachlorobenzene	(3)	7.955	250	5342	1.0712
103)	4-Nitrophenol	(3)	7.925	109	2725	1.0119
104)	Dibenzofuran	(3)	7.991	168	24045	1.0651
105)	2,4-Dinitrotoluene	(3)	7.985	165	4022	0.6856
106)	1-Naphthylamine	(3)	8.057	143	17335	0.9484
107)	2,3,4,6-Tetrachlorophenol	(3)	8.093	232	2981	0.8087
108)	2-Naphthylamine	(3)	8.117	143	18320	0.9889
109)	Diethylphthalate	(3)	8.194	149	17966	0.9892
110)	Thionazin	(3)	8.260	107	3079	0.8004
111)	Fluorene	(3)	8.272	166	18279	0.9733
112)	4-Chlorophenyl-phenylether	(3)	8.284	204	8800	1.0280
113)	5-Nitro-o-toluidine	(3)	8.278	152	4732	0.7932
114)	4-Nitroaniline	(3)	8.284	138	5233	0.9373
115)	4,6-Dinitro-2-methylphenol	(4)	8.314	198	1753	0.4950
117)	N-Nitrosodiphenylamine	(4)	8.374	169	15947	0.9552

M = Compound was manually integrated. A = User selected an alternate hit

PCH09 8716

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
118)	1,2-Diphenylhydrazine	(4)	8.410	77	21965	0.9501
120)	Tetraethyldithiopyrophosphate	(4)	8.523	97	2464	0.7854
121)	1,3,5-Trinitrobenzene	(4)	8.583	213	834M	0.3866
122)	Diallate (peak 1)	(4)	8.619	86	8807	0.7370
123)	Phorate	(4)	8.625	75	12652	0.8715
124)	Phenacetin	(4)	8.631	108	10356	0.9321
125)	4-Bromophenyl-phenylether	(4)	8.679	248	4074	0.9876
126)	Diallate (peak 2)	(4)	8.691	86	1801	0.2415
127)	Hexachlorobenzene	(4)	8.721	284	4048	1.0320
128)	Dimethoate	(4)	8.757	87	7674	0.8574
129)	Diallate TRANS/CIS	(4)	23.156	86	10608	0.9797
131)	Pentachlorophenol	(4)	8.882	266	2133	0.7387
132)	Pentachloronitrobenzene	(4)	8.894	237	1227	0.7120
133)	4-Aminobiphenyl	(4)	8.888	169	14956	0.9803
134)	Pronamide	(4)	8.948	173	5973	0.7540
135)	Phenanthrene-d10	(4)	9.038	188	500879	20.0000
136)	Dinoseb	(4)	9.038	211	1772	0.3767
137)	Phenanthrene	(4)	9.056	178	30763	1.0742
138)	Anthracene	(4)	9.098	178	27097	0.9592
140)	Carbazole	(4)	9.229	167	27765	1.0052
141)	Methyl parathion	(4)	9.355	109	4000	0.6197
142)	Di-n-butylphthalate	(4)	9.540	149	28636	0.8939
143)	Parathion	(4)	9.678	109	2212	0.5180
144)	4-Nitroquinoline-1-oxide	(4)	9.684	190	807	0.3023
146)	Isodrin	(4)	9.911	193	2815	0.9329
147)	Fluoranthene	(4)	10.025	202	26659	0.9666
152)	Benzidine	(5)	10.144	184	118335	6.2019
154)	Pyrene	(5)	10.210	202	34948	1.1041
158)	p-Dimethylaminoazobenzene	(5)	10.468	225	3653	0.6577
159)	Chlorobenzilate	(5)	10.509	139	7423	0.8074
160)	3,3'-Dimethylbenzidine	(5)	10.743	212	7869	0.4972
161)	Butylbenzylphthalate	(5)	10.767	149	11717	0.7994
162)	2-Acetylaminofluorene	(5)	10.958	181	7838	0.6239
164)	3,3'-Dichlorobenzidine	(5)	11.221	252	6681	0.7823
165)	4,4'-Methylenebis(2-Chloroanil	(5)	11.233	231	2557	0.5593
166)	Benzo(a)anthracene	(5)	11.239	228	22762	0.9316
167)	Pyrene-d10	(5)	10.198	212	578478	20.0000
168)	Chrysene	(5)	11.275	228	24064	0.9551
169)	bis(2-Ethylhexyl)phthalate	(5)	11.311	149	13388	0.6870
189)	6-Methylchrysene	(5)	11.730	242	14739	0.8373
190)	Dibenz(a,h)acridine	(6)	13.812	279	9966	0.6676
170)	Di-n-octylphthalate	(6)	11.993	149	15324	0.4966
191)	Dibenz(a,j)acridine	(6)	13.865	279	11865	0.7150

M = Compound was manually integrated. A = User selected an alternate hit

PCH89 8717

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

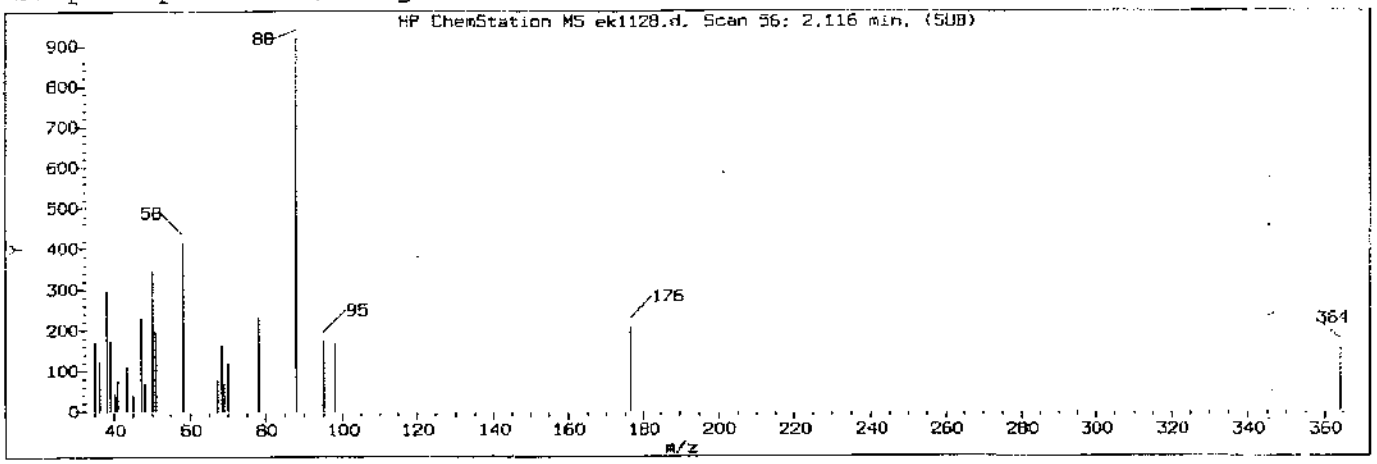
Sample Name: SSTD001 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
171)	7,12-Dimethylbenz[a]anthracene	(6)	12.358	256	7224	0.7202
172)	Benzo(b)fluoranthene	(6)	12.358	252	19317M	0.8631
194)	Quinoline	(2)	6.663	129	17895	1.1115
173)	Benzo(k)fluoranthene	(6)	12.394	252	22198M	0.9800
174)	Benzo(a)pyrene	(6)	12.735	252	16013	0.8082
175)	Perylene-d12	(6)	12.801	264	376715	20.0000
202)	NDPA as diphenylamine	(4)	8.374	169	15947	0.9482
176)	3-Methylcholanthrene	(6)	13.154	268	6852	0.6954
177)	Indeno(1,2,3-cd)pyrene	(6)	14.069	276	18011	0.8777
178)	Dibenz(a,h)anthracene	(6)	14.117	278	15377	0.8754
206)	Indene	(1)	5.448	115	12336	0.9758
179)	Benzo(g,h,i)perylene	(6)	14.392	276	16293	0.9298
9)	2-Fluorophenol	(1)	3.935	112	6977	0.9223
14)	Phenol-d5	(1)	4.886	99	11154	1.0191
15)	Phenol-d6	(1)	4.886	99	11154	1.0191
38)	Nitrobenzene-d5	(2)	5.718	82	9418	1.0136
78)	2-Fluorobiphenyl	(3)	7.273	172	16407	0.9598
119)	2,4,6-Tribromophenol	(3)	8.469	330	1372	0.8157
156)	Terphenyl-d14	(5)	10.348	244	17331	0.9932

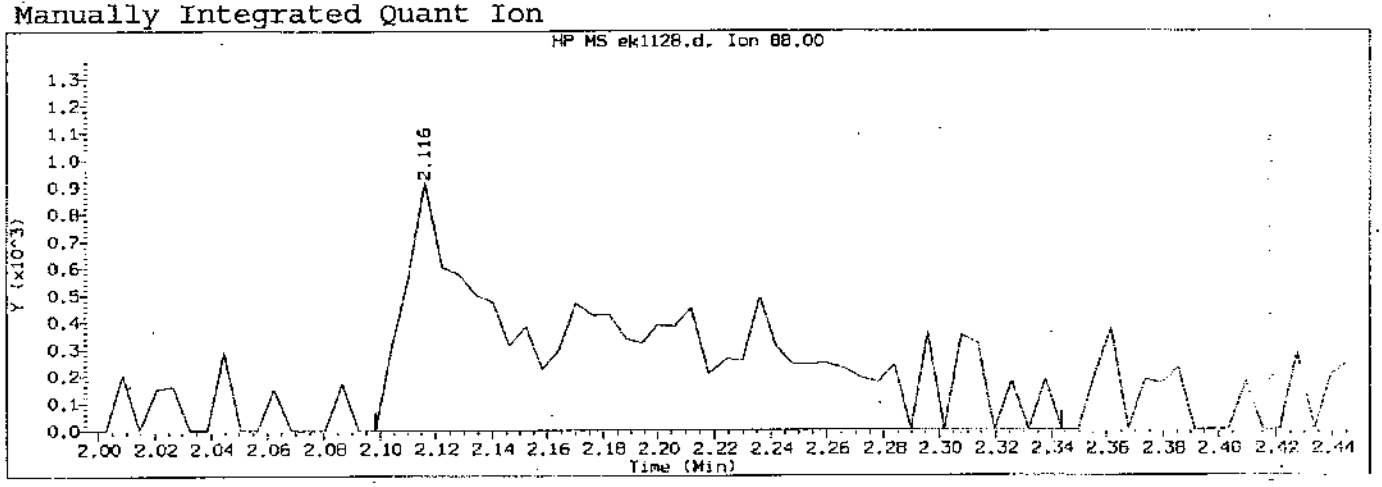
M = Compound was manually integrated. A = User selected an alternate hit

PCH09 8718

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 1
Compound Name	: 1,4-Dioxane
Scan Number	: 56
Retention Time (minutes)	: 2.116
Quant Ion	: 88
Area (flag)	: 4610 M
Concentration (ng/ul)	: 1.5653
Integration start scan	: 52 Integration stop scan: 93
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: _____

GC/MS audit/management approval: _____

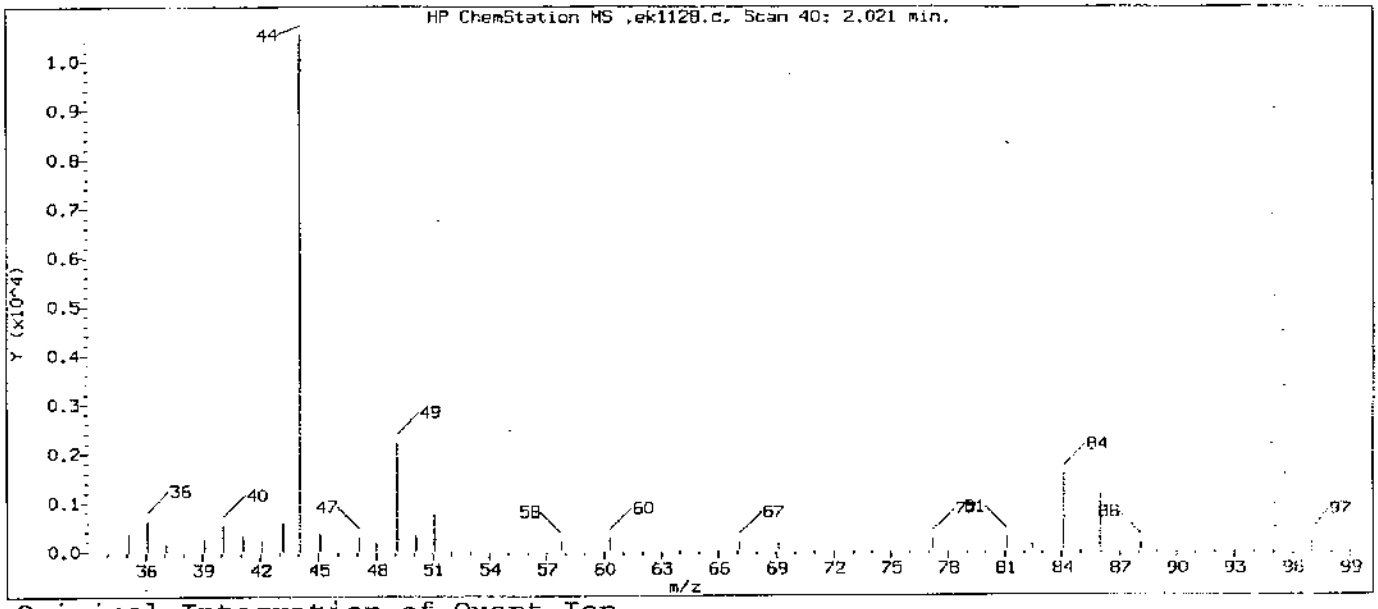
NOV 25 2011

FCH09 8719

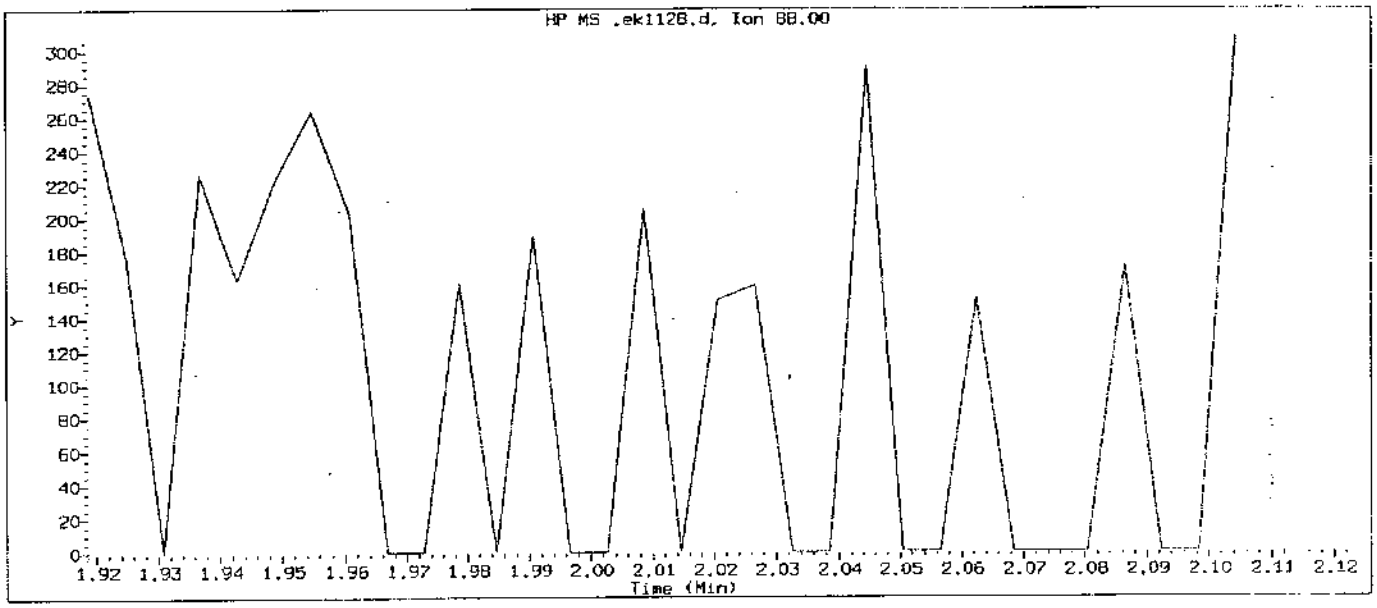
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

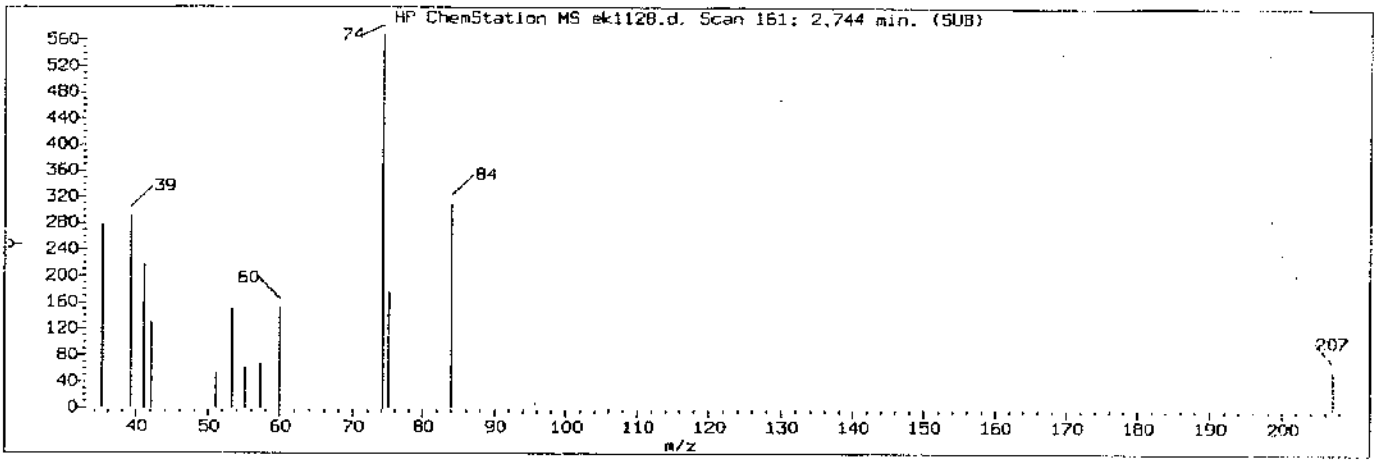
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Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

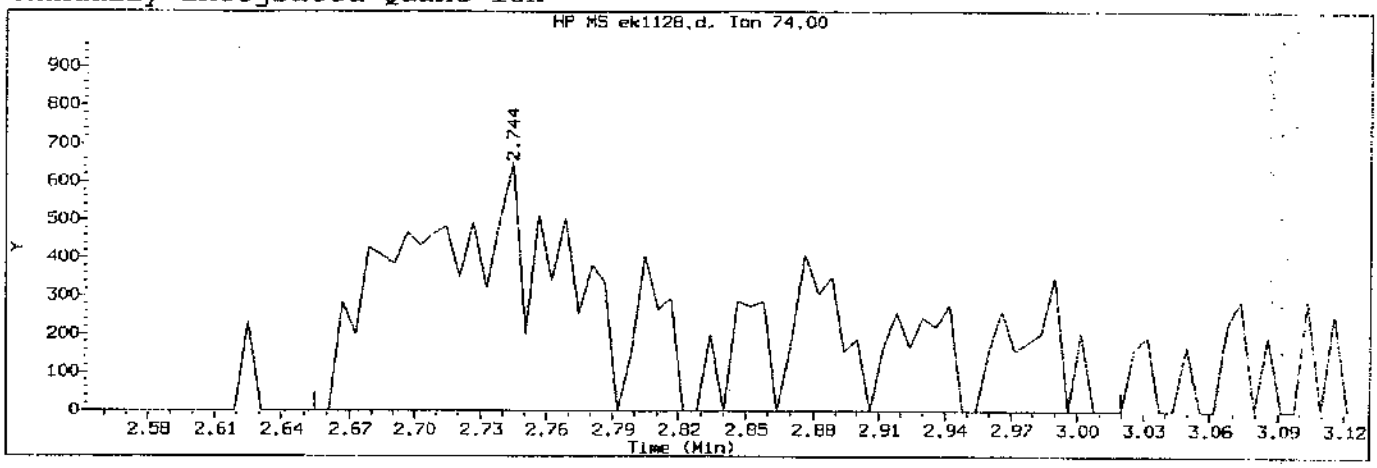
Compound Number : 1
Compound Name : 1,4-Dioxane
Expected RT (minutes) : 2.021
Quant Ion : 88

PCH09 8720

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number : 2
Compound Name : N-Nitrosodimethylamine
Scan Number : 161
Retention Time (minutes): 2.744
Quant Ion : 74
Area (flag) : 5380 M
Concentration (ng/ul) : 1.0486
Integration start scan : 145 Integration stop scan: 206
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: Matthew Barton 11/25/11

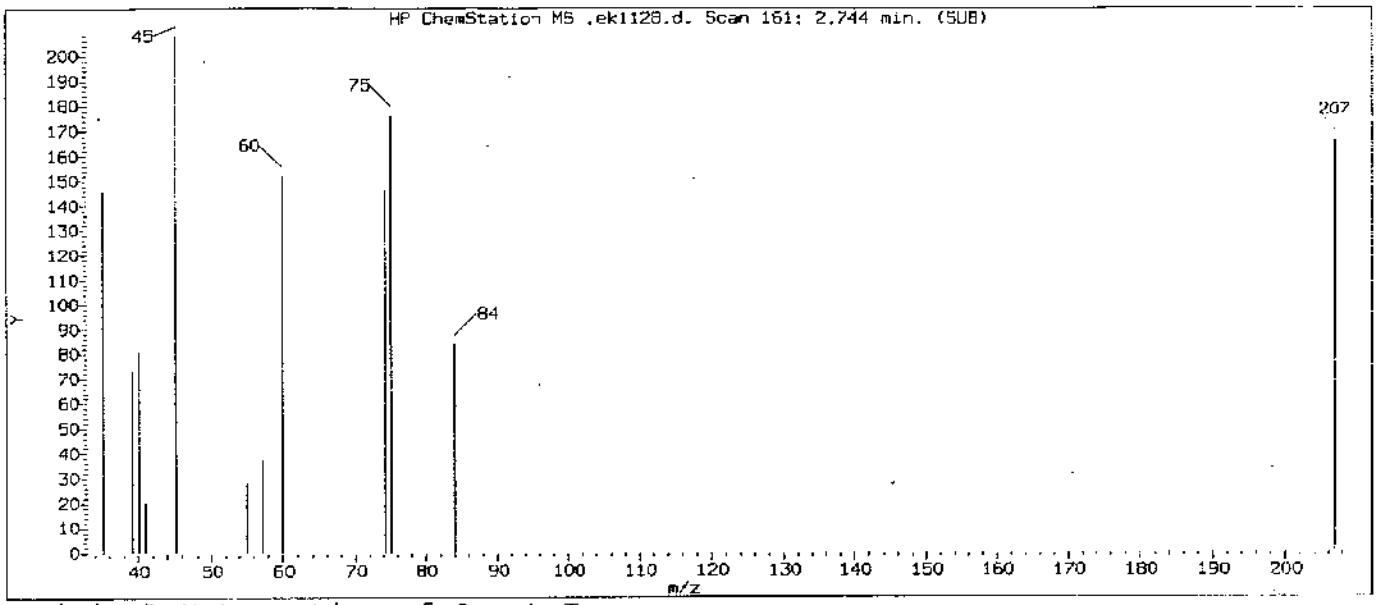
GC/MS audit/management approval: Matthew E. Barton PCH09 4721

NOV 25 2011

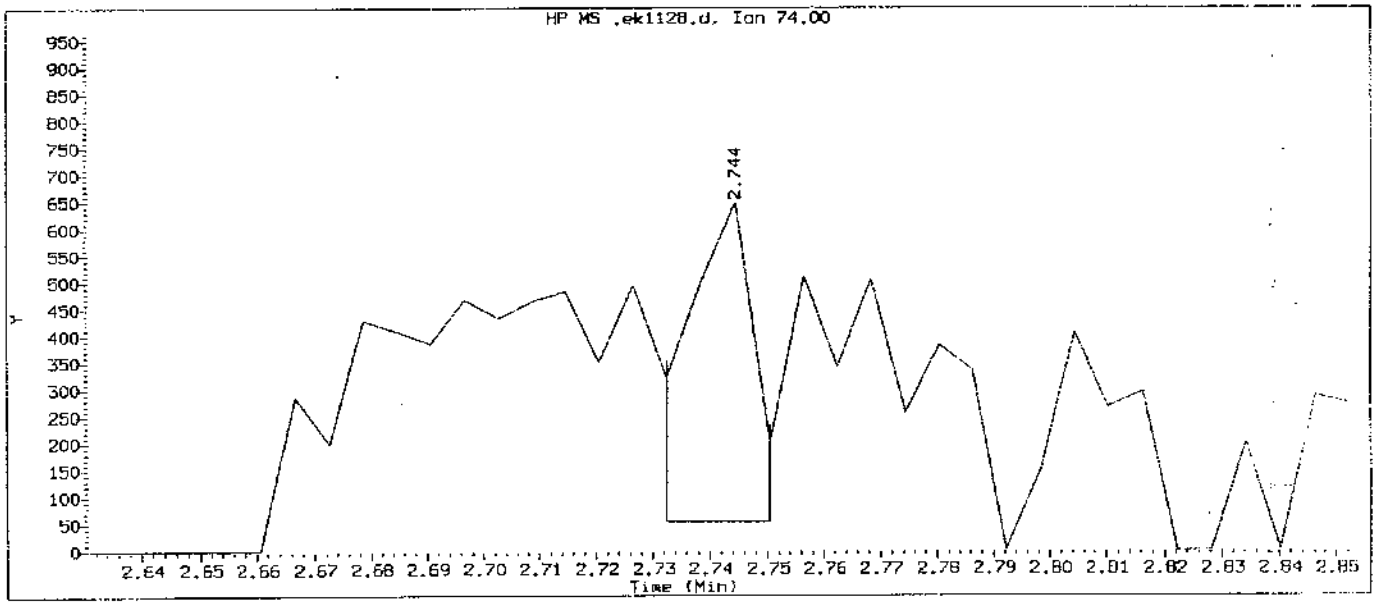
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

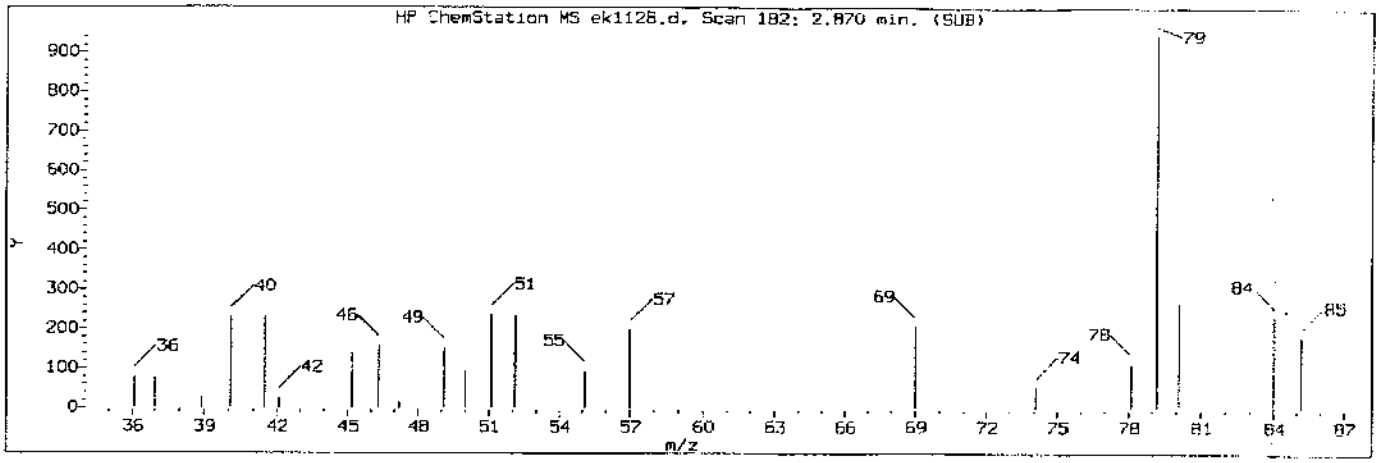
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 2		
Compound Name	: N-Nitrosodimethylamine		
Scan Number	: 161		
Retention Time (minutes)	: 2.744		
Quant Ion	: 74		
Area	: 449		
Concentration (ng/ul)	: 0.1028		
Integration start scan	: 158	Integration stop scan:	161
Y at integration start	: 53	Y at integration end:	53

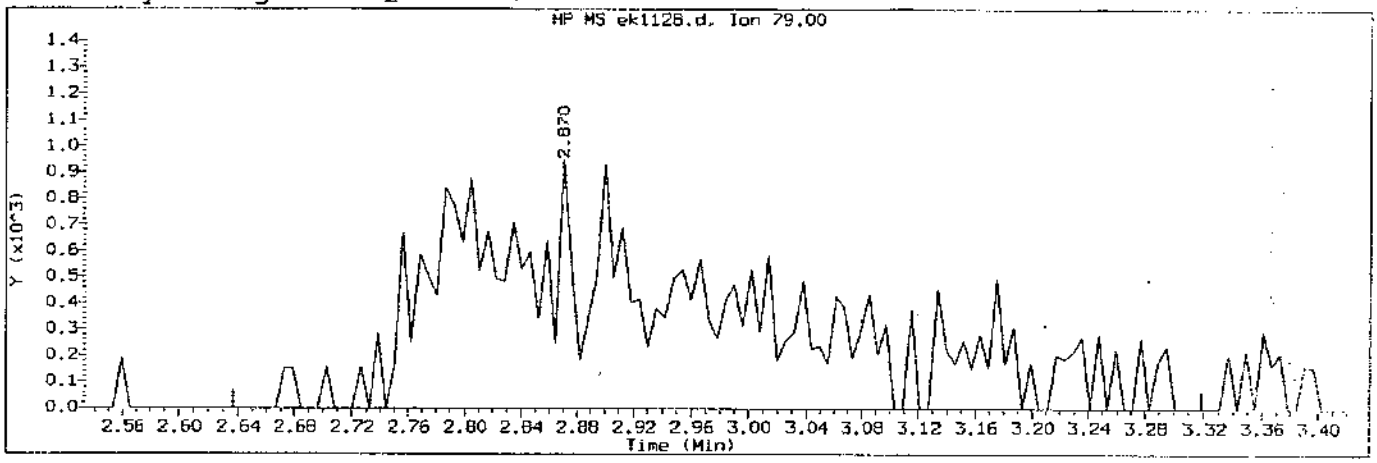
PCH09 6722

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 3
Compound Name	: Pyridine
Scan Number	: 182
Retention Time (minutes)	: 2.870
Quant Ion	: 79
Area (flag)	: 11812 M
Concentration (ng/ul)	: 1.3578
Integration start scan	: 142 Integration stop scan: 256
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: msw2109 11/23/11

GC/MS audit/management approval: Matthew E. Barton

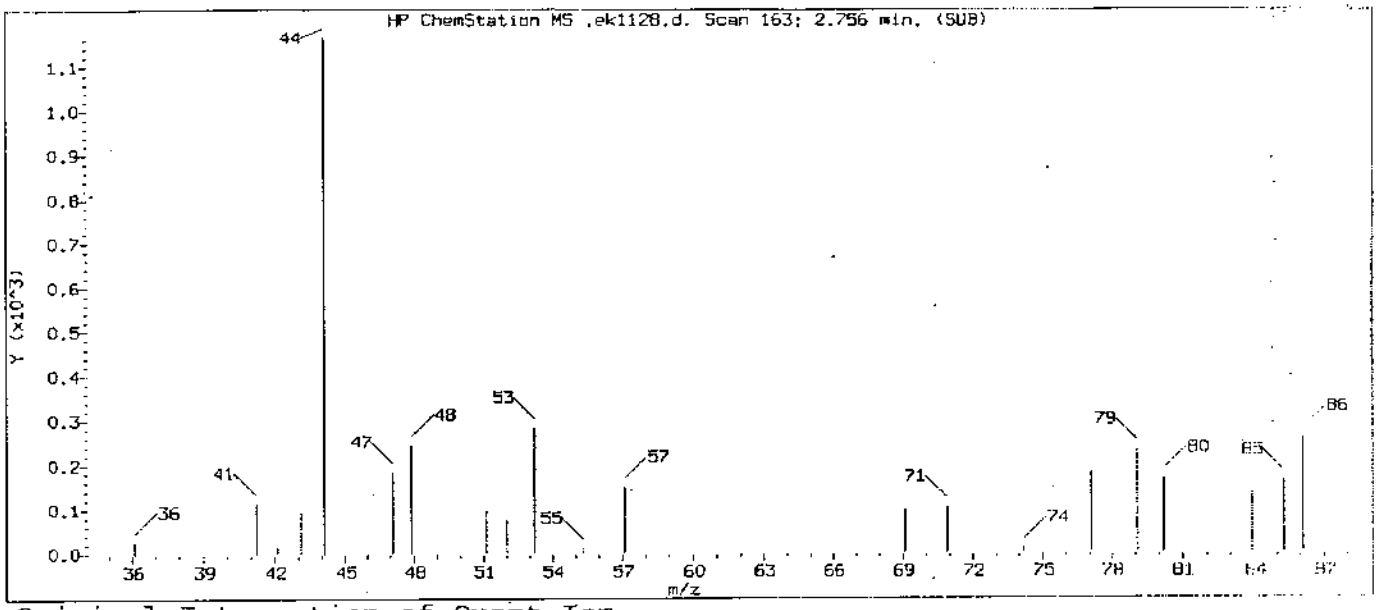
PCN09 8723

NOV 25 2011

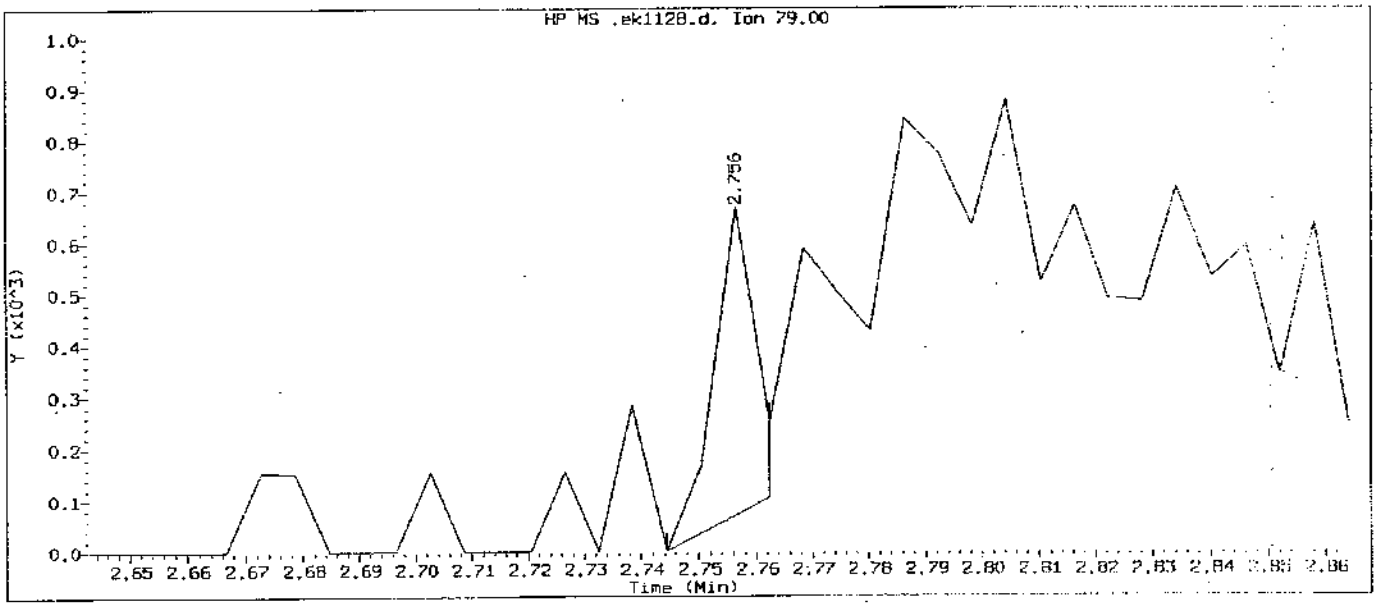
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

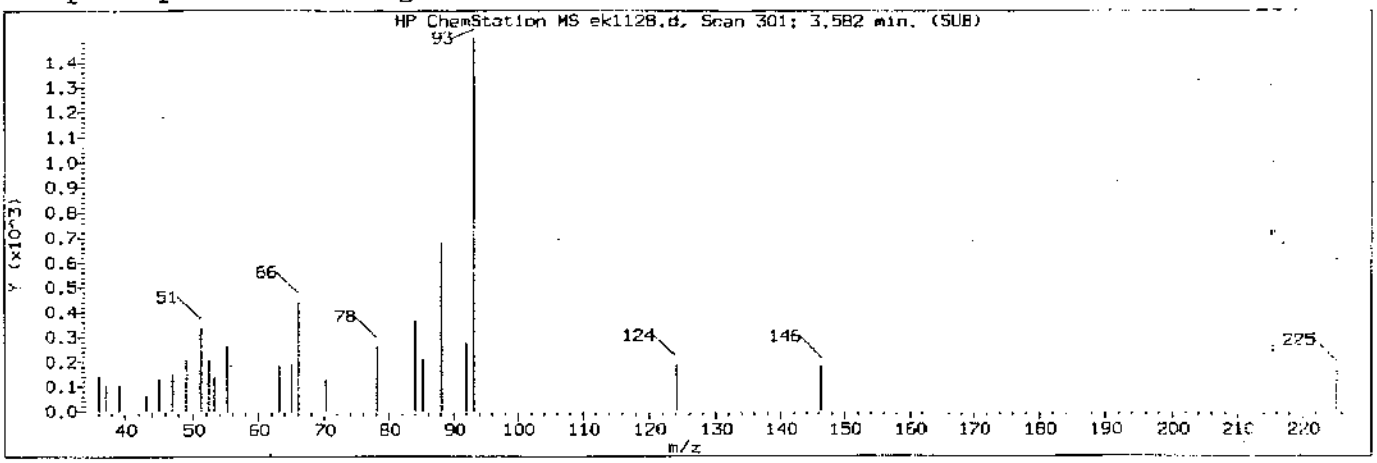
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 3
Compound Name	: Pyridine
Scan Number	: 163
Retention Time (minutes)	: 2.756
Quant Ion	: 79
Area	: 288
Concentration (ng/ul)	: 0.0446
Integration start scan	: 160 Integration stop scan: 163
Y at integration start	: 0 Y at integration end: 104

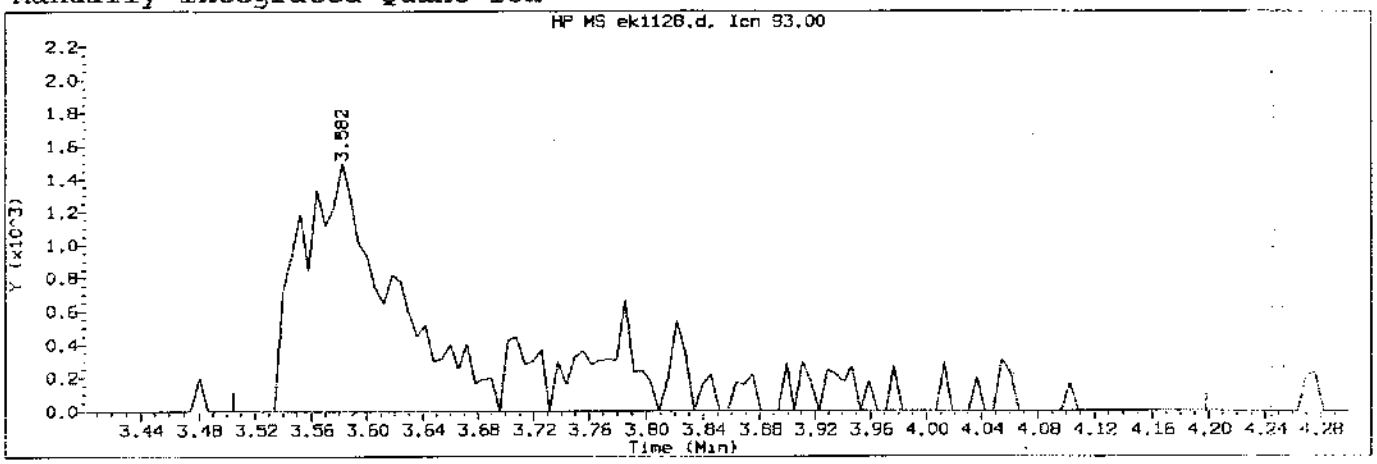
PCH09 8724

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number : 5
Compound Name : 2-Picoline
Scan Number : 301
Retention Time (minutes): 3.582
Quant Ion : 93
Area (flag) : 10650 M
Concentration (ng/ul) : 1.2034
Integration start scan : 287 Integration stop scan: 403
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 11/23/11

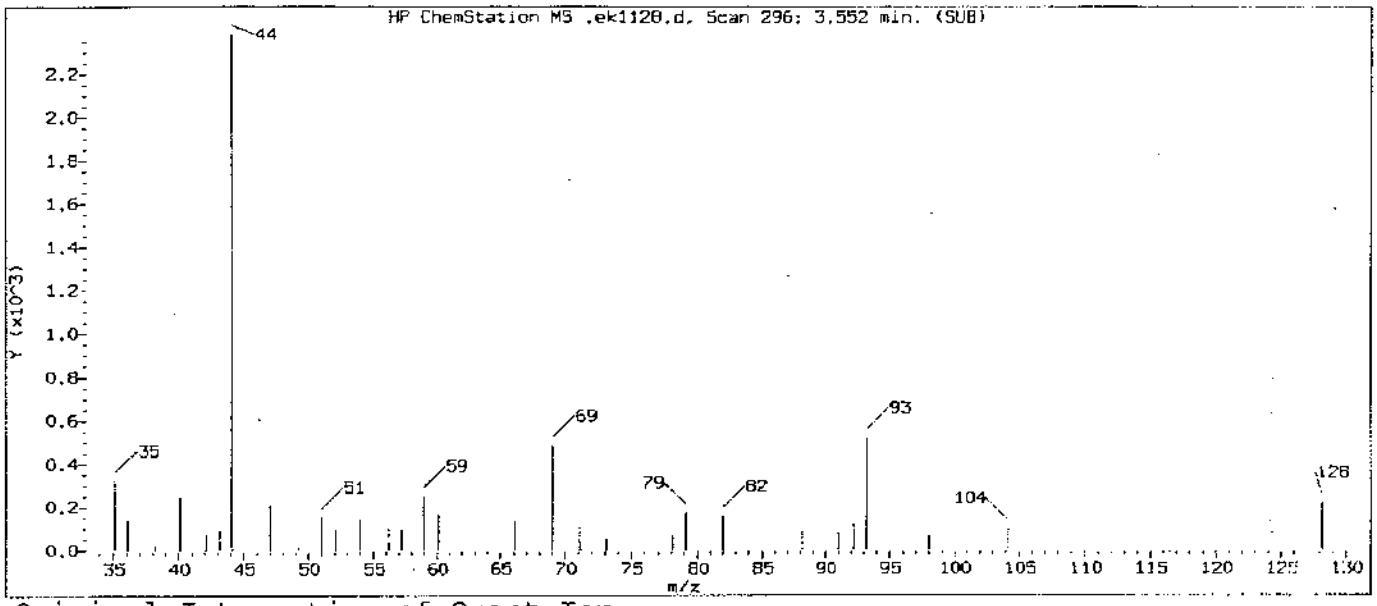
GC/MS audit/management approval: NOV 25 2011

PCH09 0725

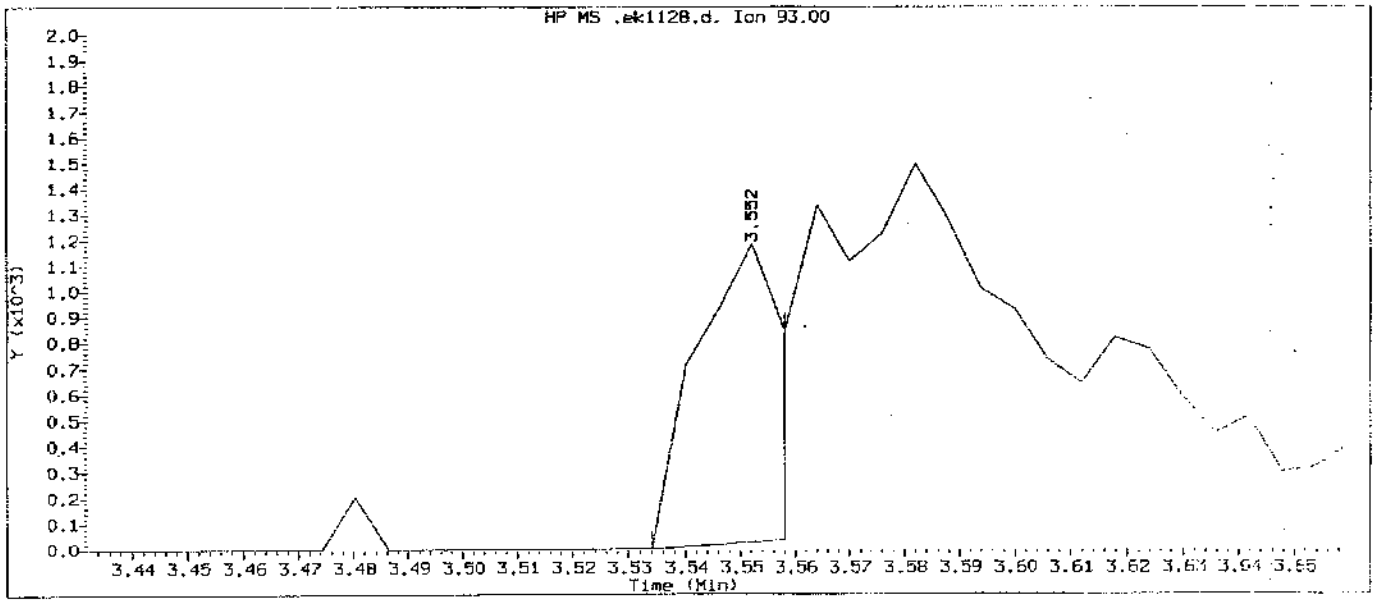
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

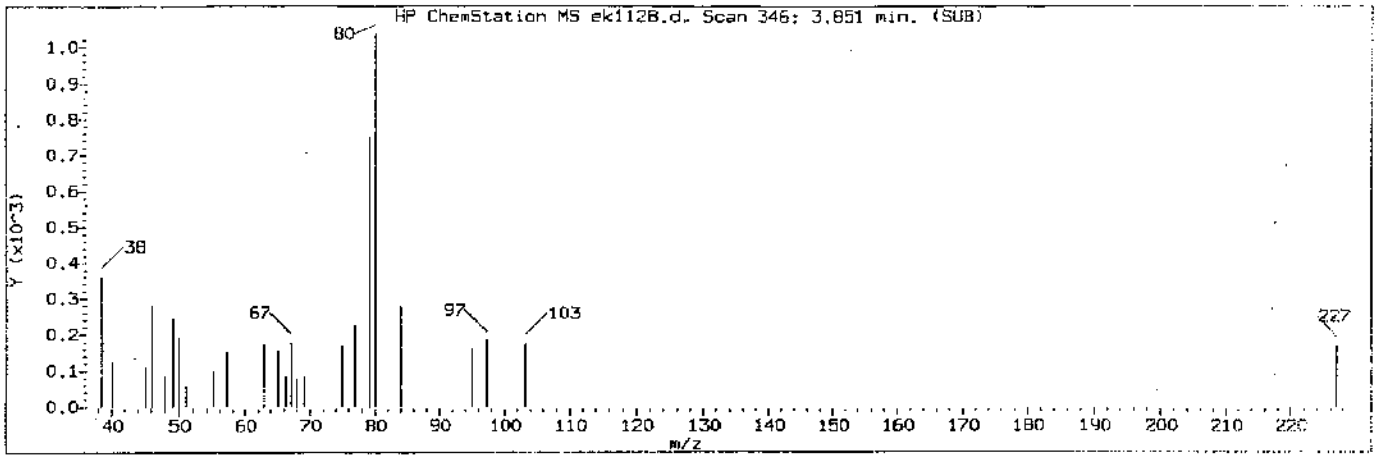
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number : 5
Compound Name : 2-Picoline
Scan Number : 296
Retention Time (minutes): 3.552
Quant Ion : 93
Area : 1144
Concentration (ng/ul) : 0.1441
Integration start scan : 292 Integration stop scan: 296
Y at integration start : 0 Y at integration end: 35

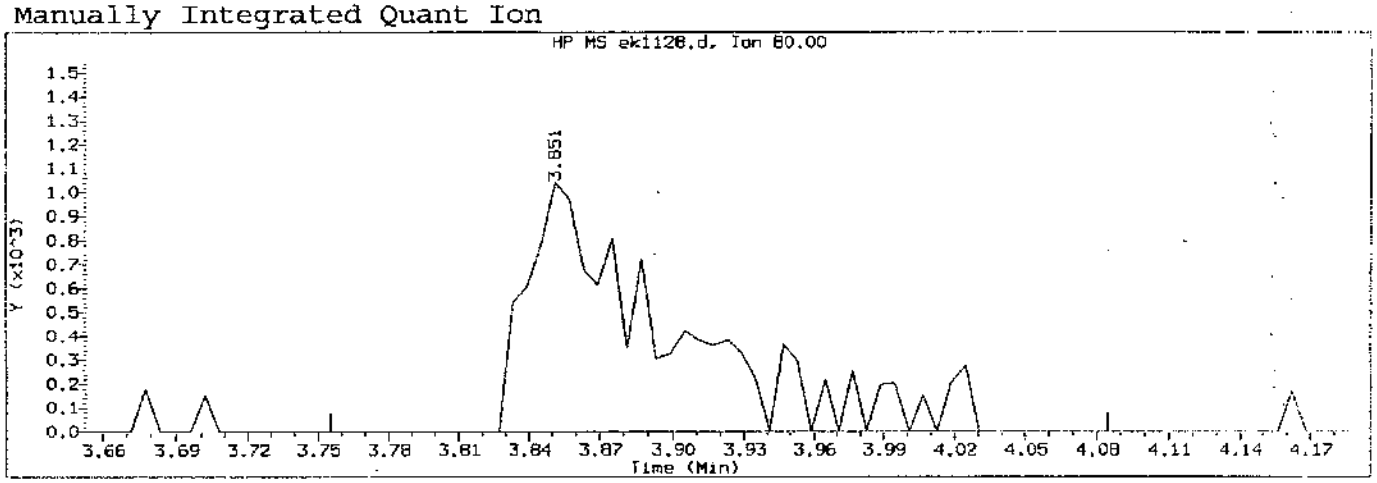
PCH09 8726

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	:	7
Compound Name	:	Methyl methanesulfonate
Scan Number	:	346
Retention Time (minutes)	:	3.851
Quant Ion	:	80
Area (flag)	:	4295 M
Concentration (ng/ul)	:	1.0038
Integration start scan	:	329 Integration stop scan: 384
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: MEW 101 11/23/11

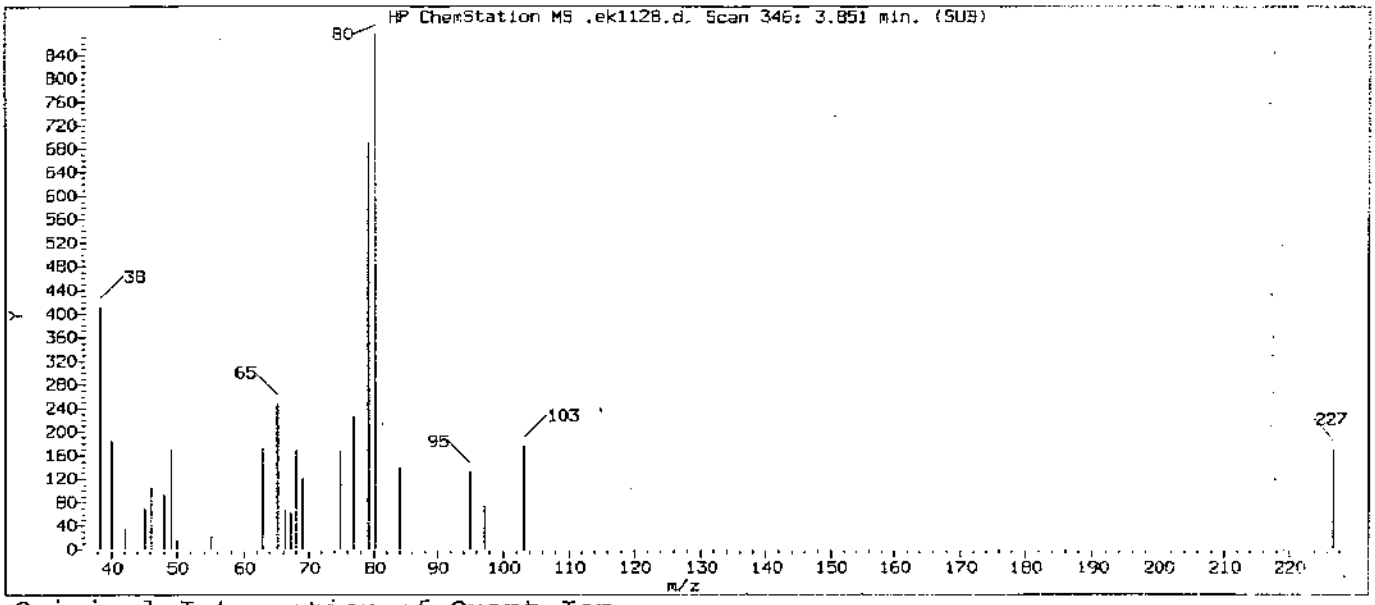
GC/MS audit/management approval: NOV 25 2011

PCH09 0727

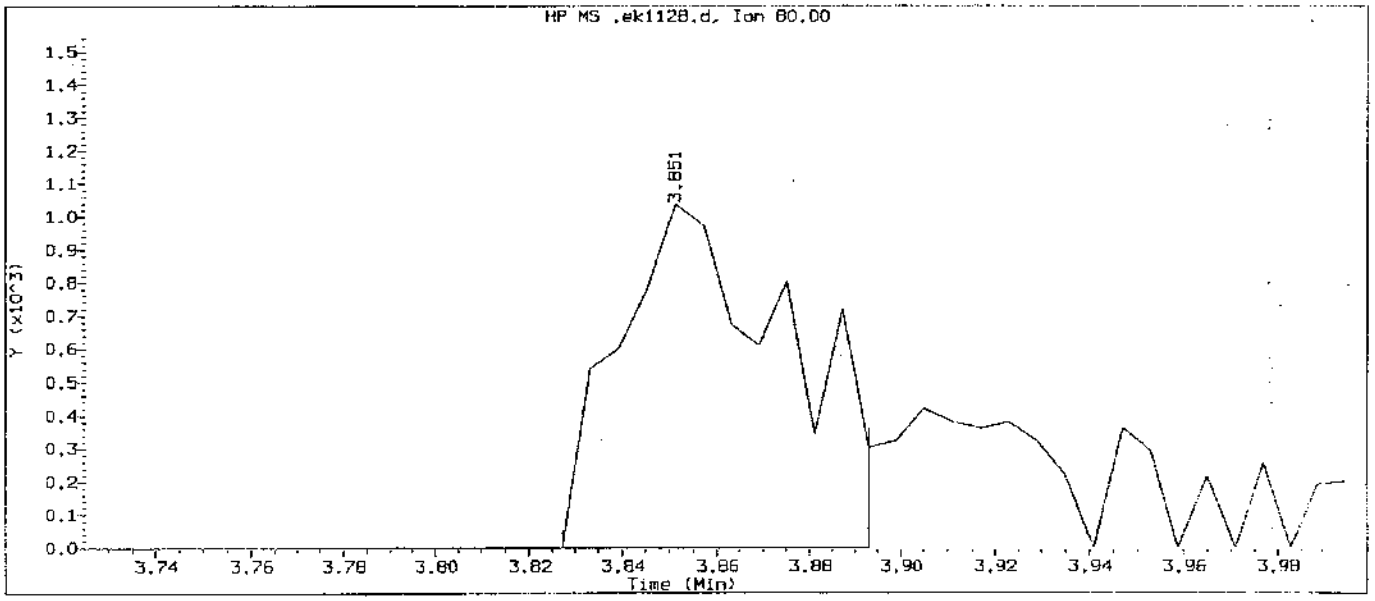
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

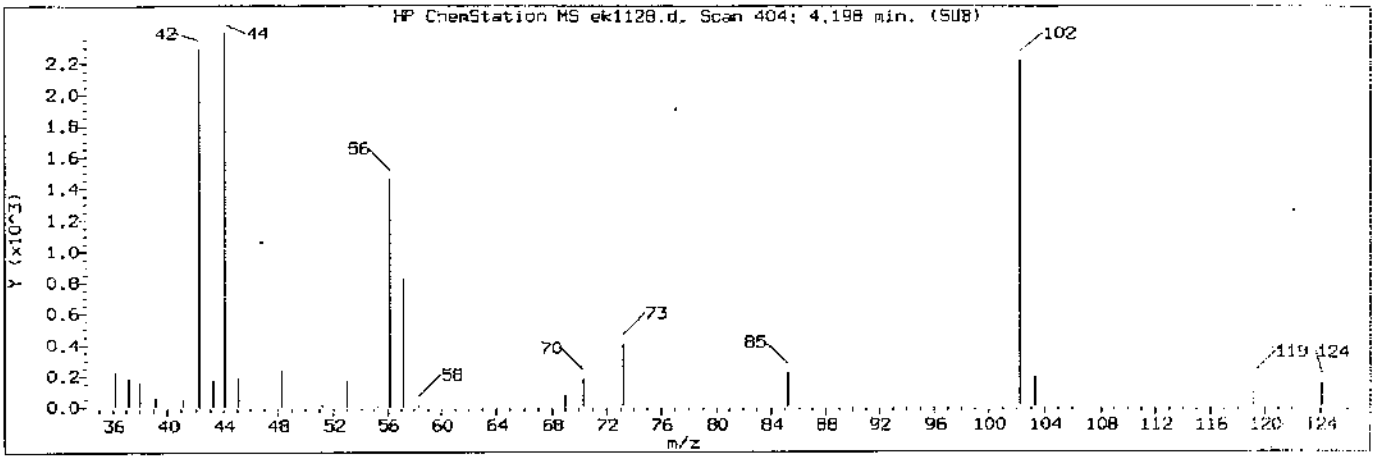
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 7
Compound Name	: Methyl methanesulfonate
Scan Number	: 346
Retention Time (minutes)	: 3.851
Quant Ion	: 80
Area	: 2600
Concentration (ng/ul)	: 0.6078
Integration start scan	: 341 Integration stop scan: 352
Y at integration start	: 0 Y at integration end: 0

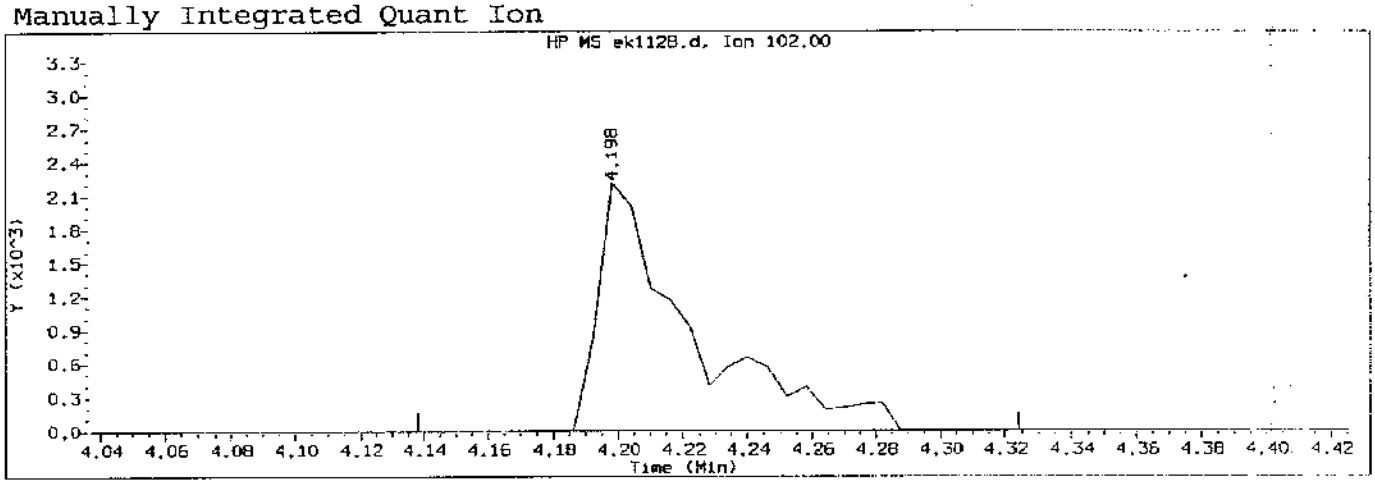
PCH89 8728

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number : 10
Compound Name : N-Nitrosodiethylamine
Scan Number : 404
Retention Time (minutes): 4.198
Quant Ion : 102
Area (flag) : 4384 M
Concentration (ng/ul) : 0.9972
Integration start scan : 393 Integration stop scan: 424
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

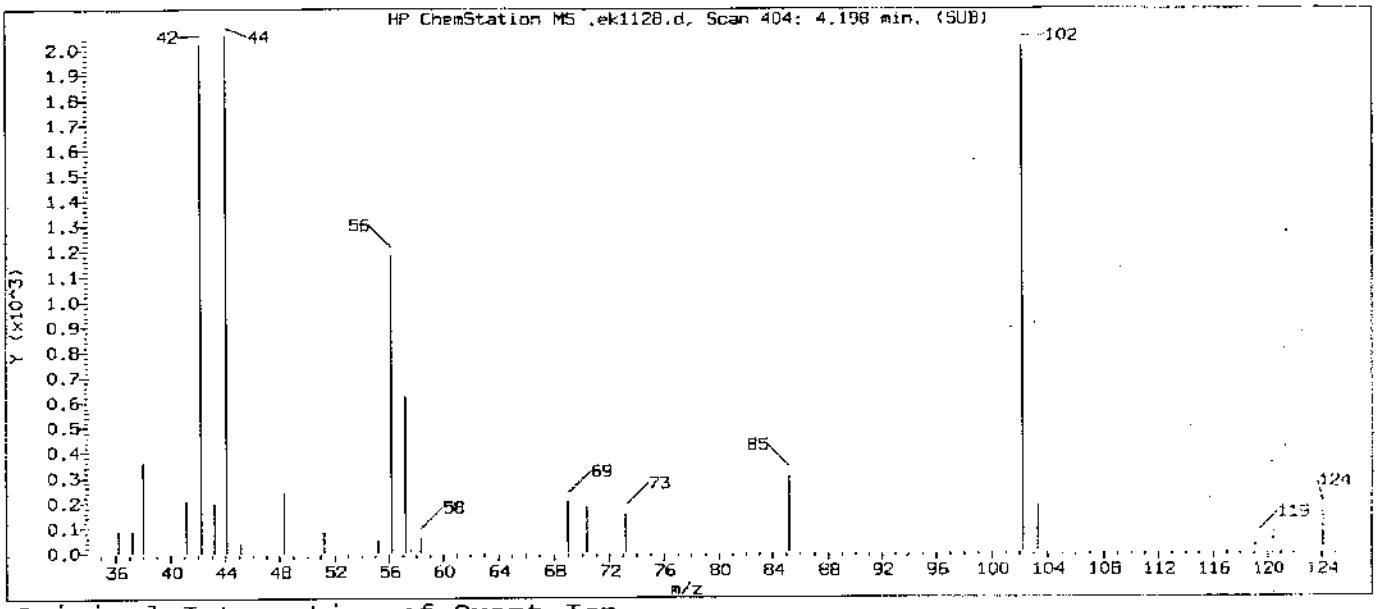
GC/MS audit/management approval: _____ PCH89 8729

NOV 25 2011

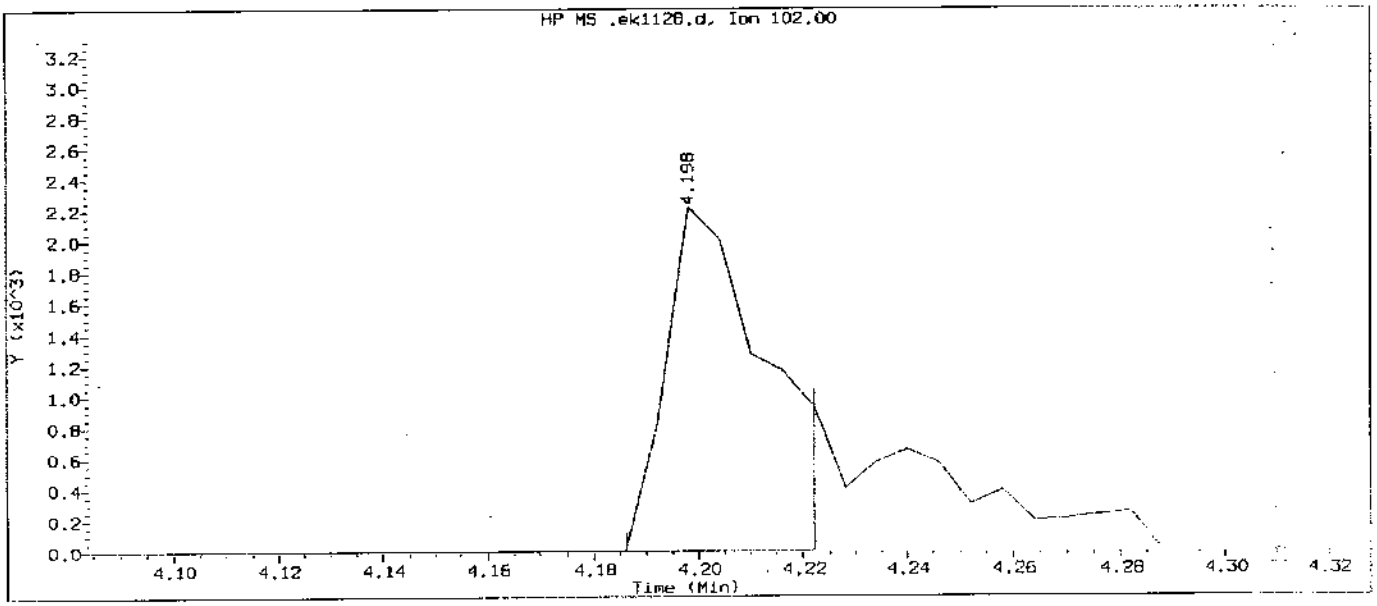
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

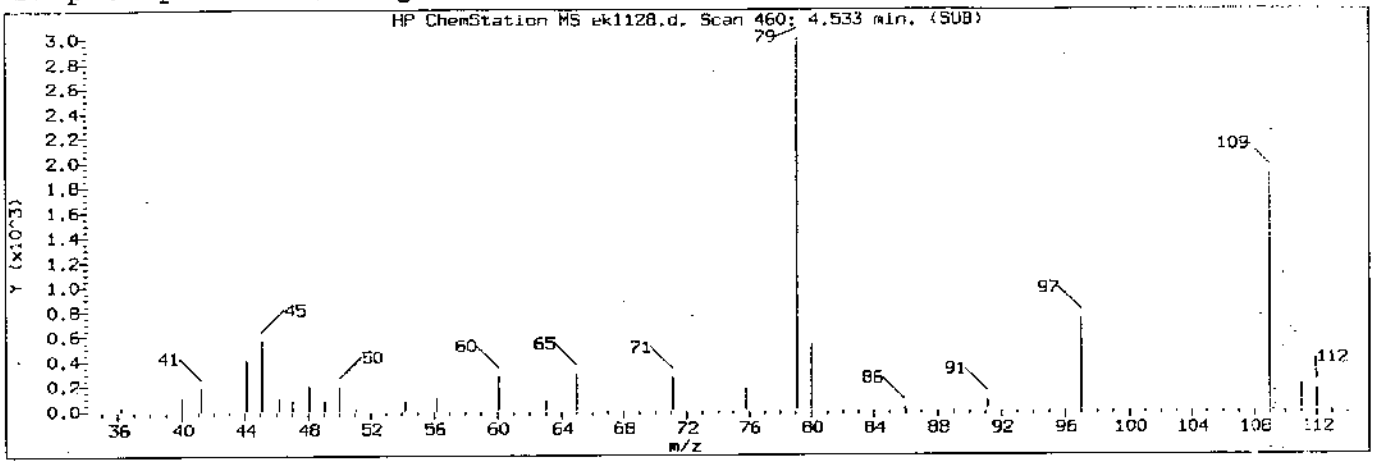
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	:	10
Compound Name	:	N-Nitrosodiethylamine
Scan Number	:	404
Retention Time (minutes)	:	4.198
Quant Ion	:	102
Area	:	2859
Concentration (ng/ul)	:	0.6843
Integration start scan	:	401 Integration stop scan: 407
Y at integration start	:	0 Y at integration end: 0

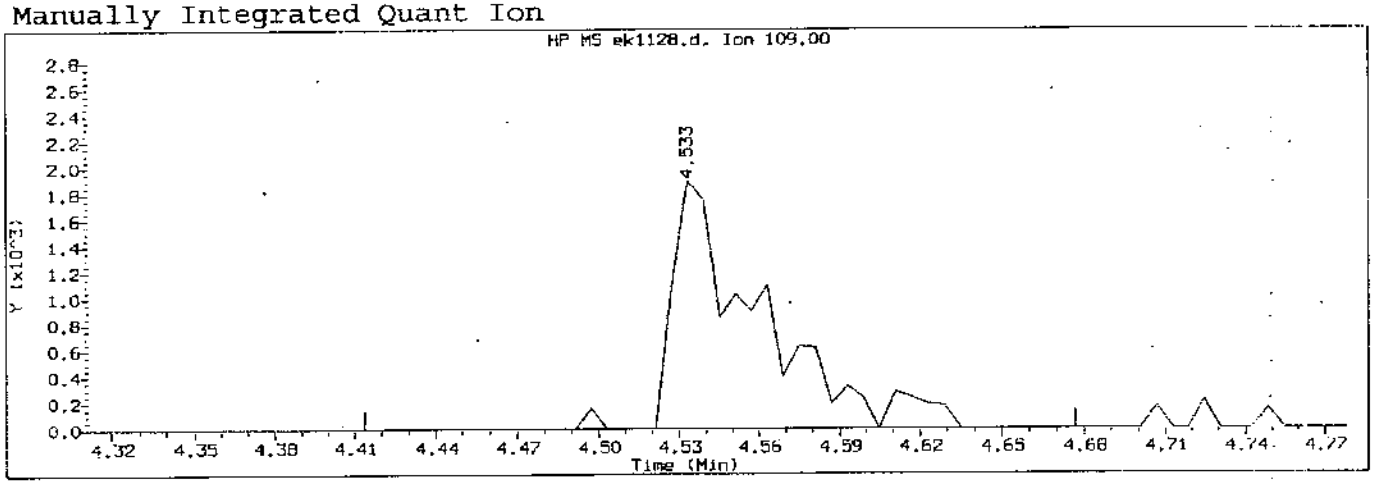
PCH09 0738

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number : 11
Compound Name : Ethyl methanesulfonate
Scan Number : 460
Retention Time (minutes): 4.533
Quant Ion : 109
Area (flag) : 4309 M
Concentration (ng/ul) : 1.0225
Integration start scan : 439 Integration stop scan: 483
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MEB 11/23/11

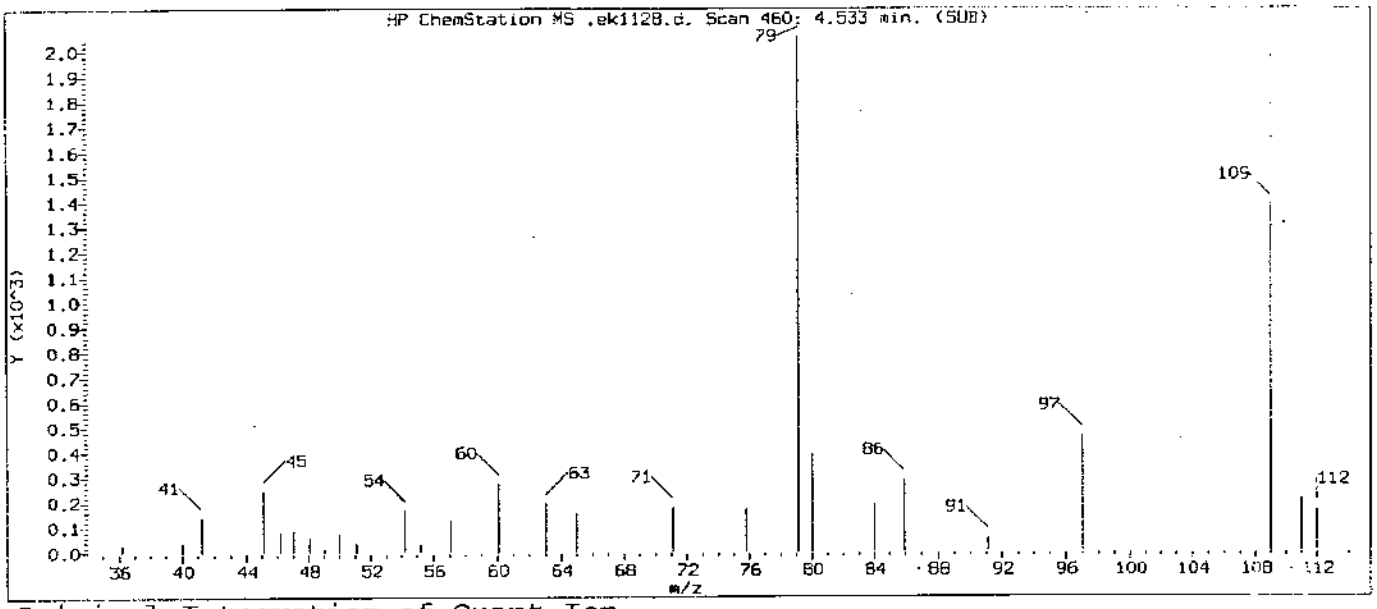
GC/MS audit/management approval: Matthew E Barton PCH09 8731

NOV 25 2011

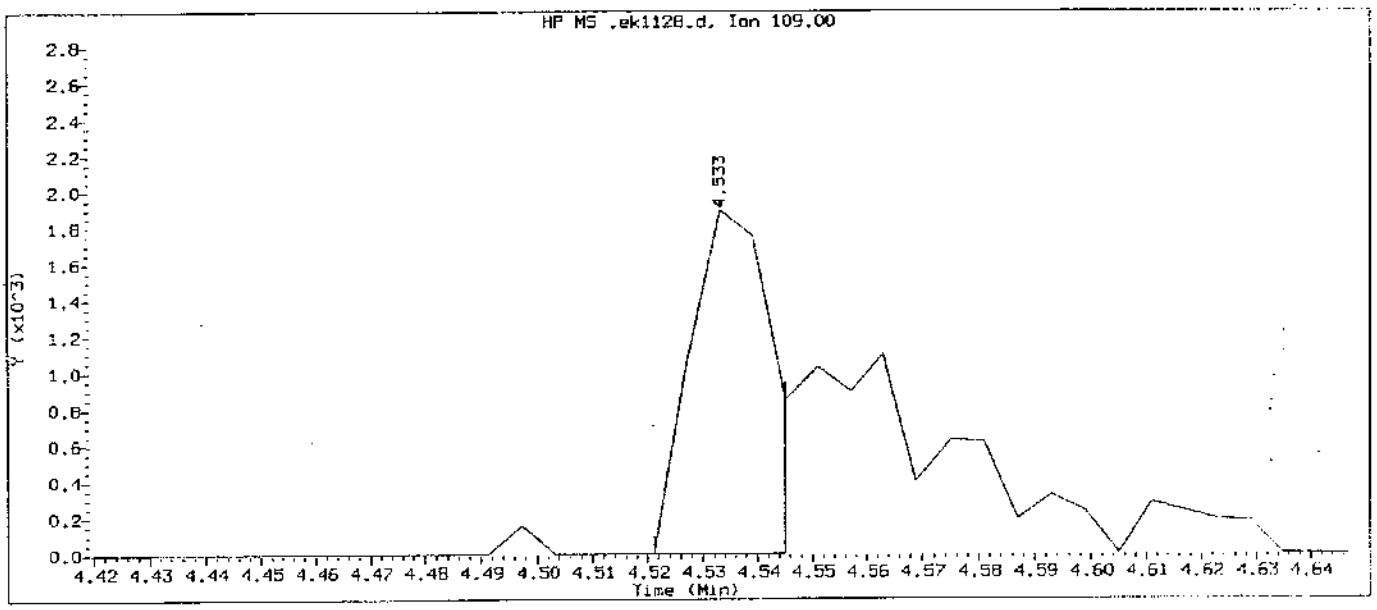
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

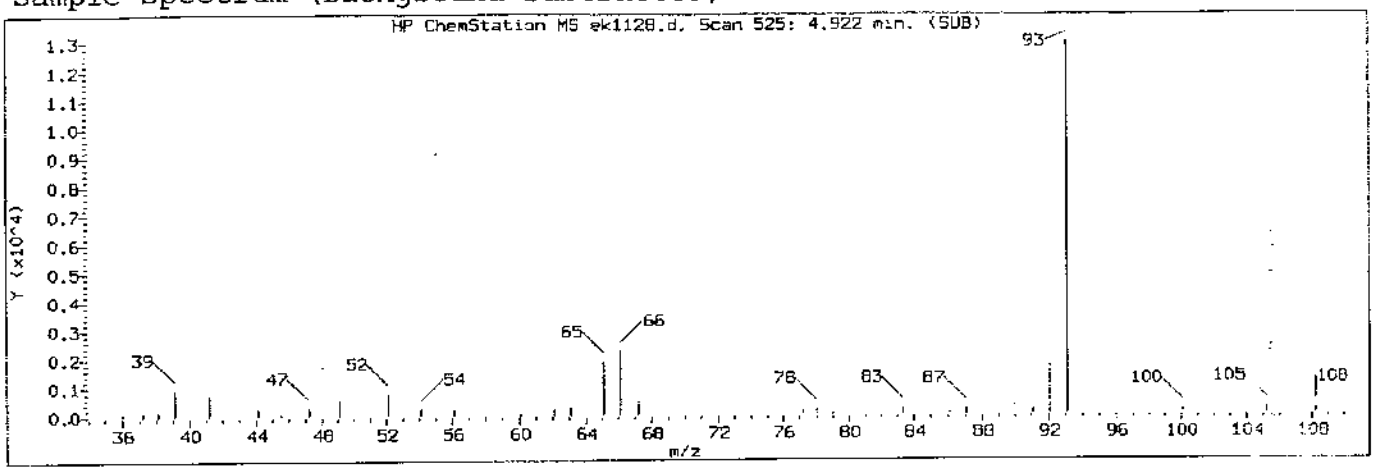
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	:	11
Compound Name	:	Ethyl methanesulfonate
Scan Number	:	460
Retention Time (minutes)	:	4.533
Quant Ion	:	109
Area	:	1839
Concentration (ng/ul)	:	0.4764
Integration start scan	:	457 Integration stop scan: 461
Y at integration start	:	0 Y at integration end: 0

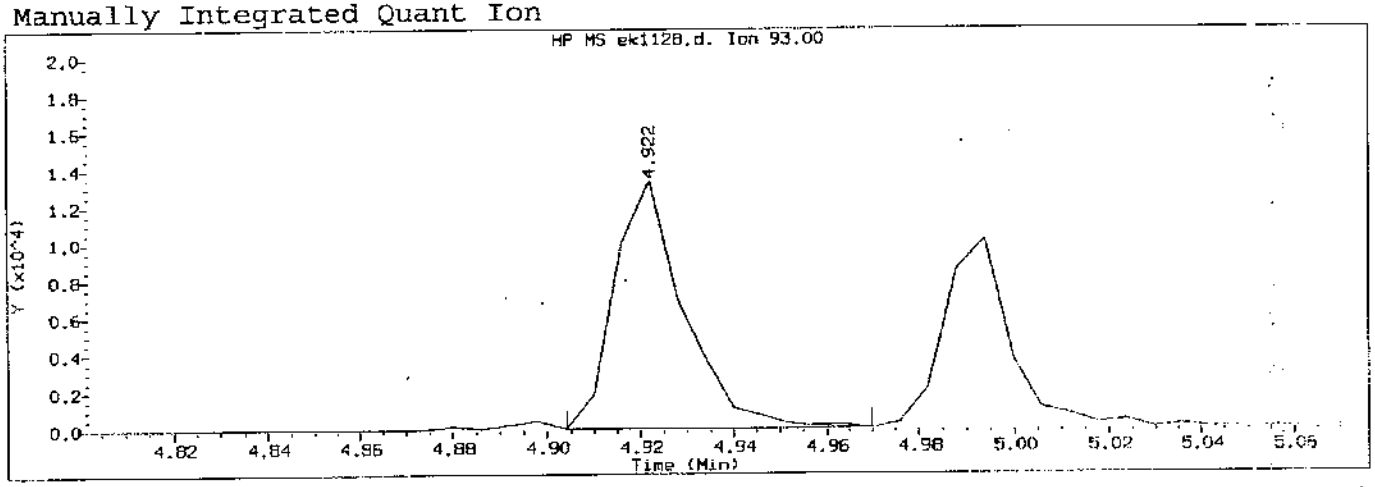
PCH09 8732

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 13
Compound Name	: Aniline
Scan Number	: 525
Retention Time (minutes)	: 4.922
Quant Ion	: 93
Area (flag)	: 13790A
Concentration (ng/ul)	: 0.9645
Integration start scan	: 521 Integration stop scan: 532
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MSW 11/25/11

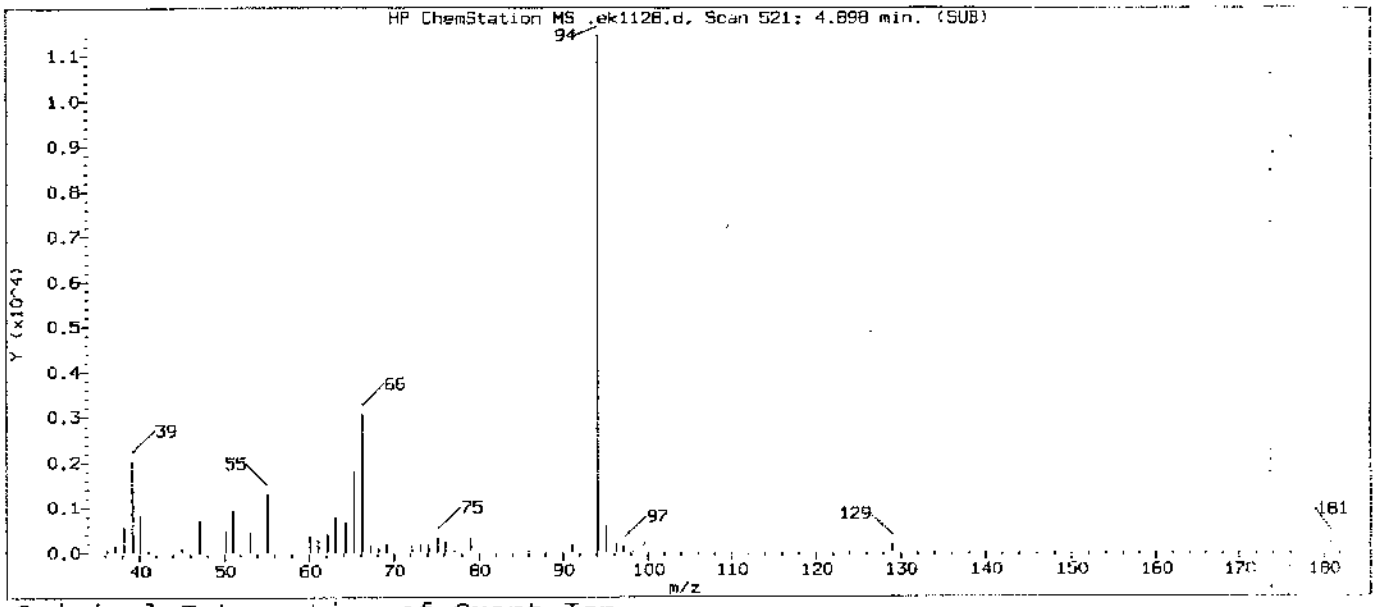
GC/MS audit/management approval: Matthew E. Barton PCH89 8733

NOV 25 2011

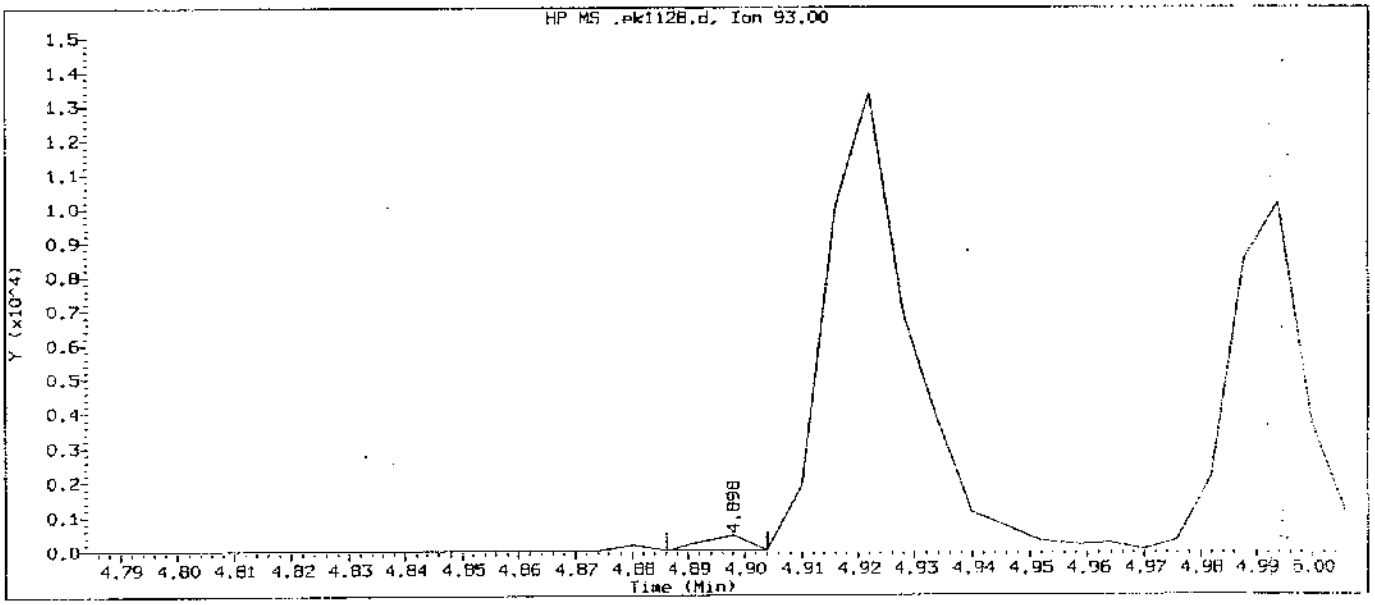
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

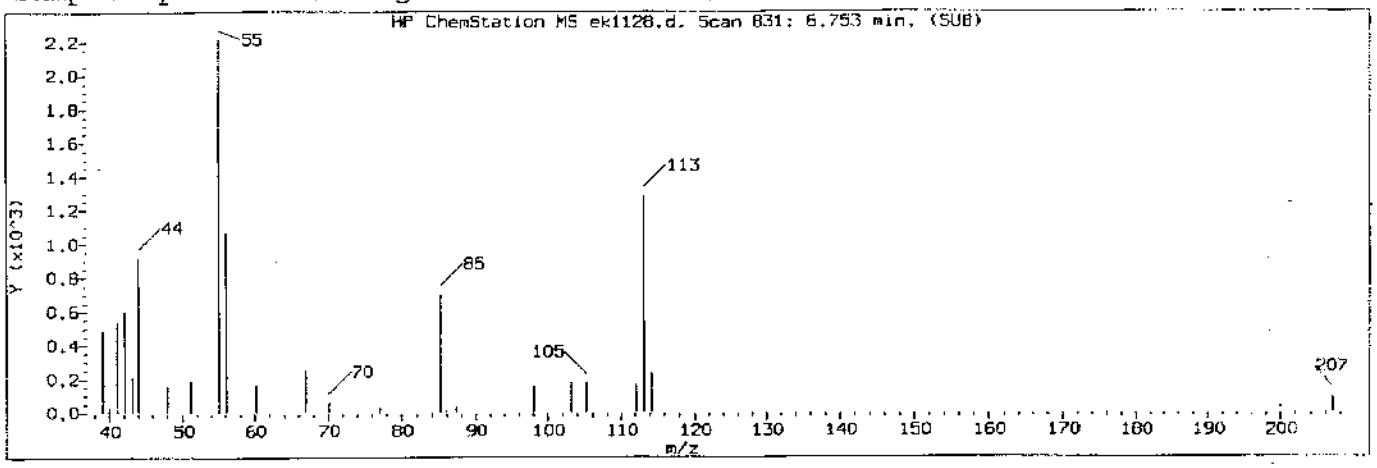
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	:	13
Compound Name	:	Aniline
Scan Number	:	521
Retention Time (minutes)	:	4.898
Quant Ion	:	93
Area	:	238
Concentration (ng/ul)	:	0.0193
Integration start scan	:	518
Integration stop scan	:	521
Y at integration start	:	0
Y at integration end	:	0

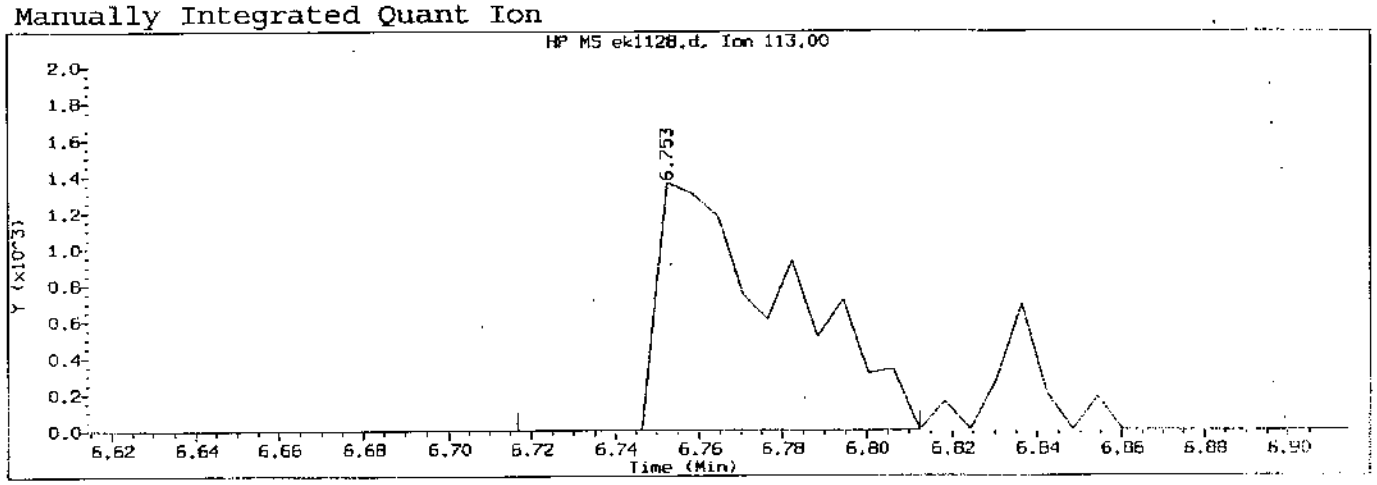
PCH09 8734

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number : 63
Compound Name : Caprolactam
Scan Number : 831
Retention Time (minutes): 6.753
Quant Ion : 113
Area (flag) : 2878 M
Concentration (ng/ul) : 0.8401
Integration start scan : 824 Integration stop scan: 840
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak / improper integration

Analyst responsible for change: _____

GC/MS audit/management approval: _____

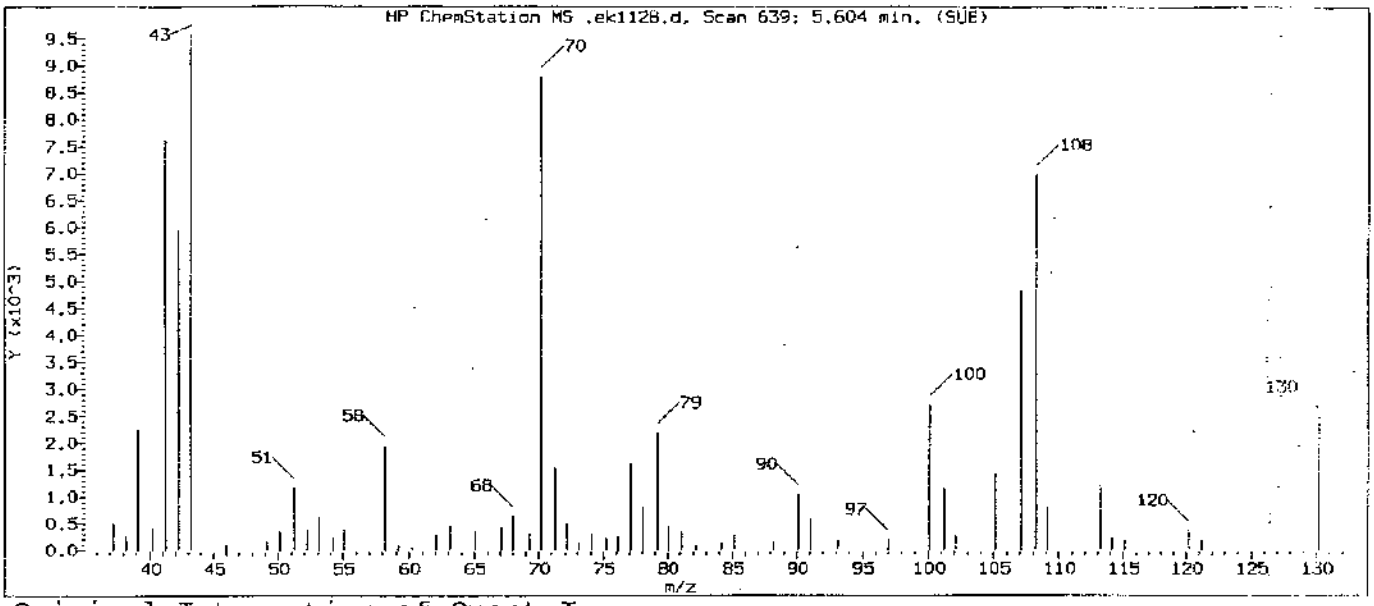
PCH69 0735

NOV 25 2011

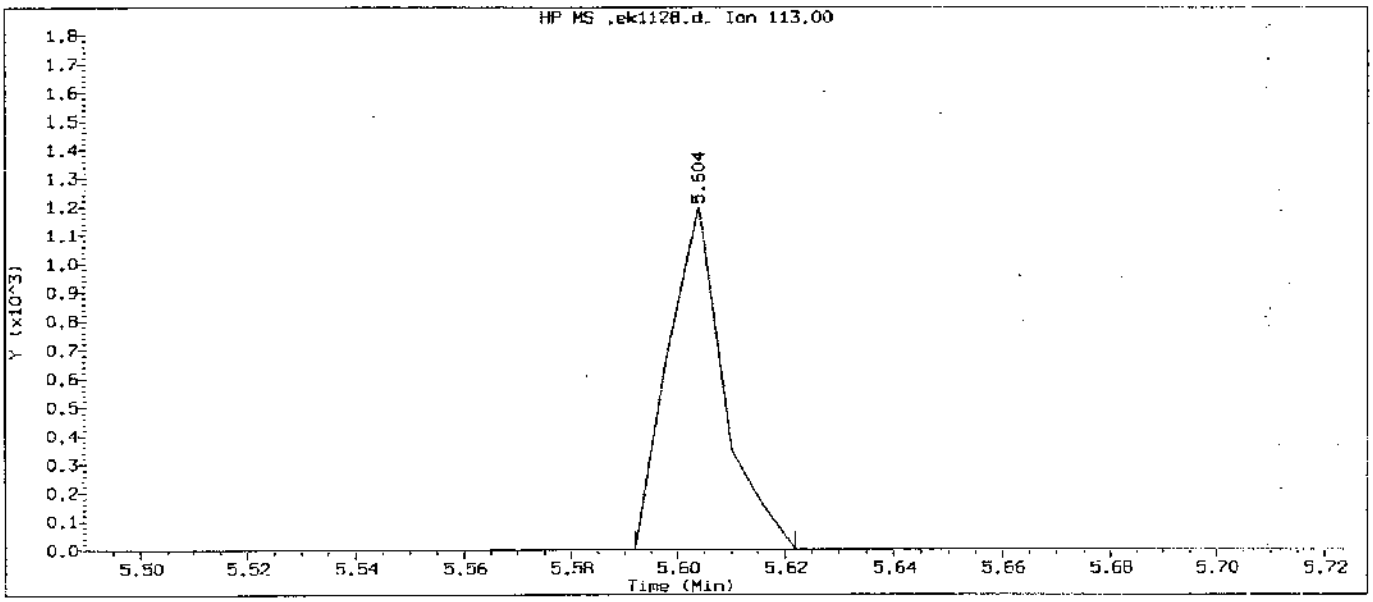
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

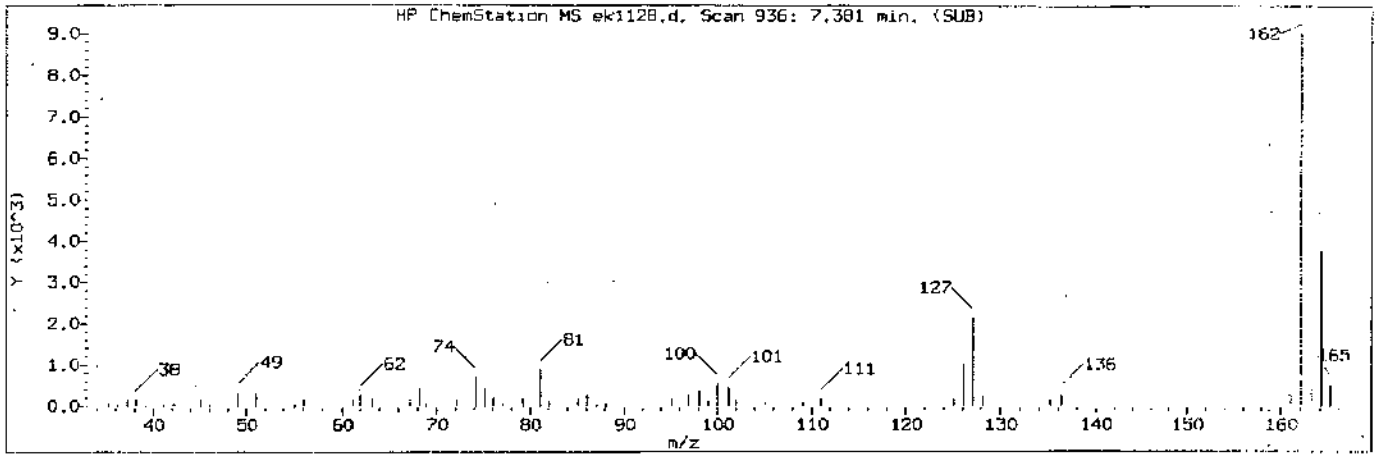
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number : 63
Compound Name : Caprolactam
Scan Number : 639
Retention Time (minutes): 5.604
Quant Ion : 113
Area : 853
Concentration (ng/ul) : 0.3695
Integration start scan : 636 Integration stop scan: 641
Y at integration start : 0 Y at integration end: 0

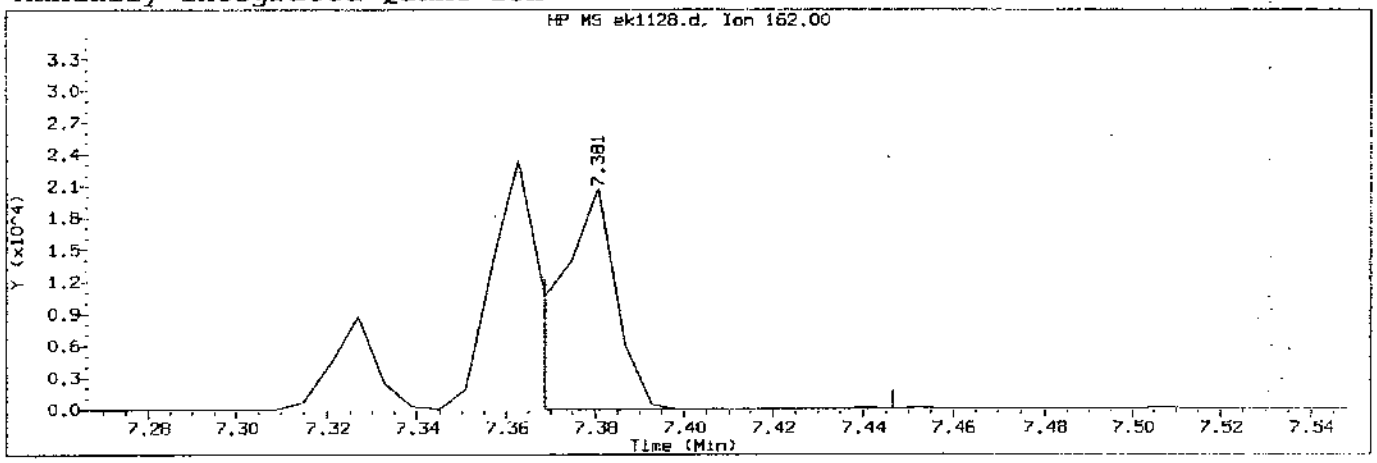
PCH89 0736

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 85
Compound Name	: 1-Chloronaphthalene
Scan Number	: 936
Retention Time (minutes)	: 7.381
Quant Ion	: 162
Area (flag)	: 16741A
Concentration (ng/ul)	: 1.0702
Integration start scan	: 933 Integration stop scan: 946
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 11/23/11

GC/MS audit/management approval:

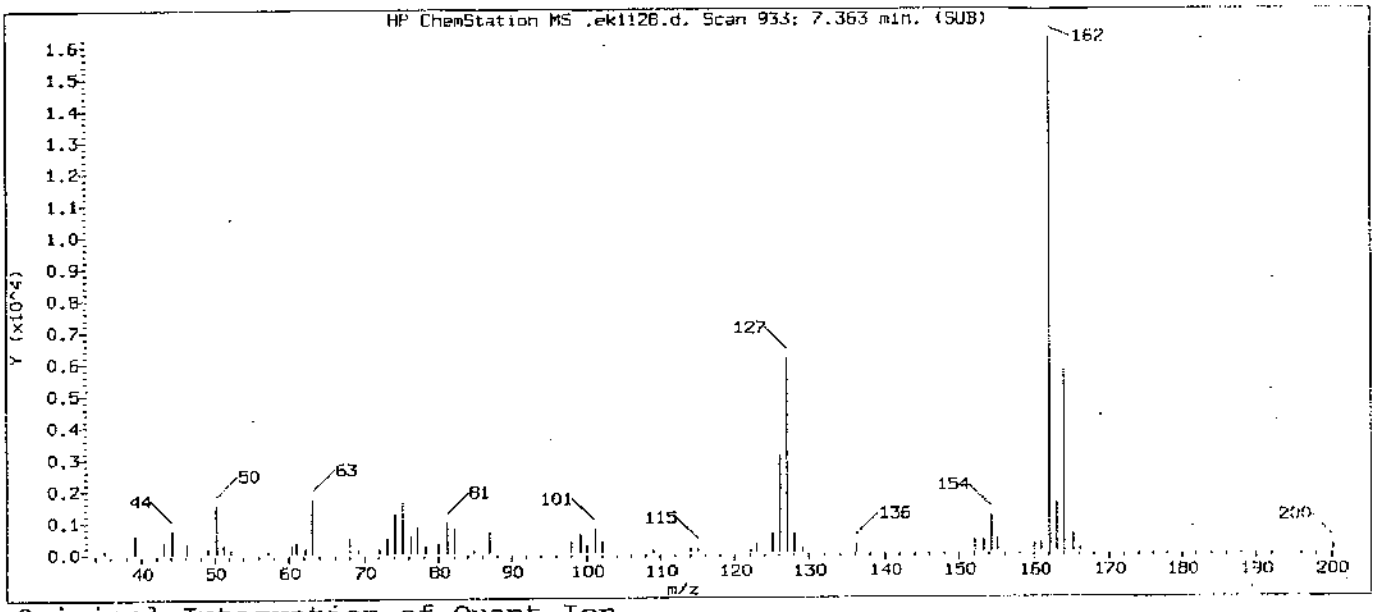
PCH69 6737

NOV 25 2011

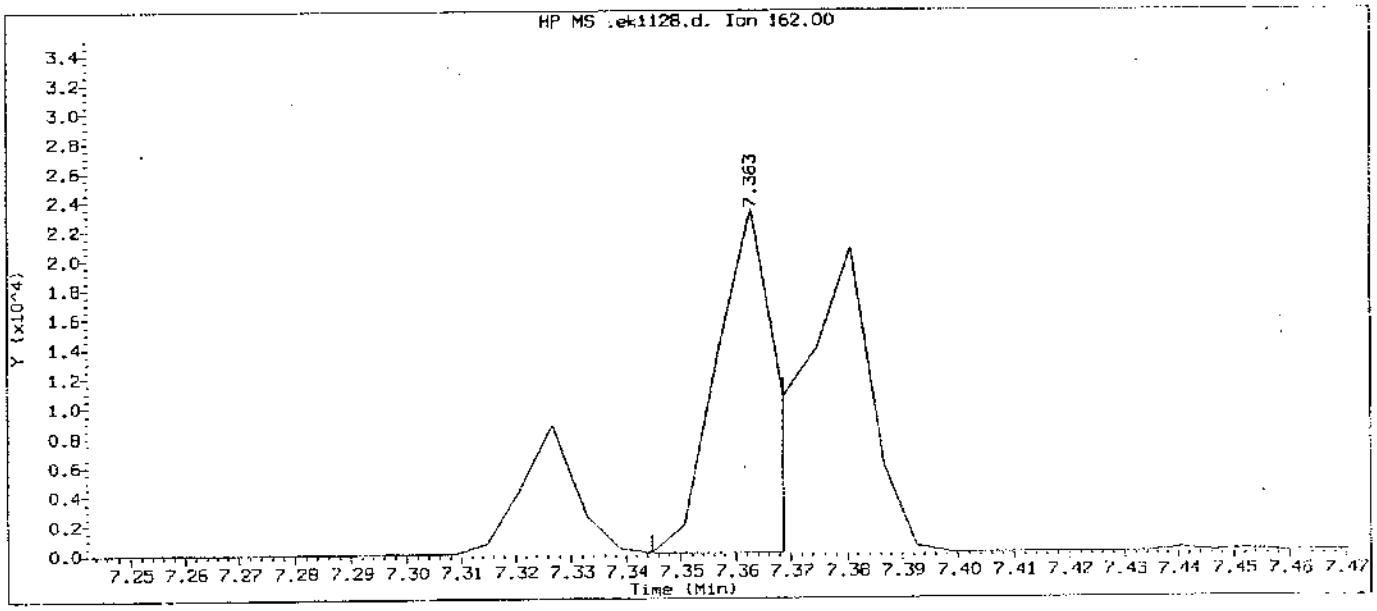
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

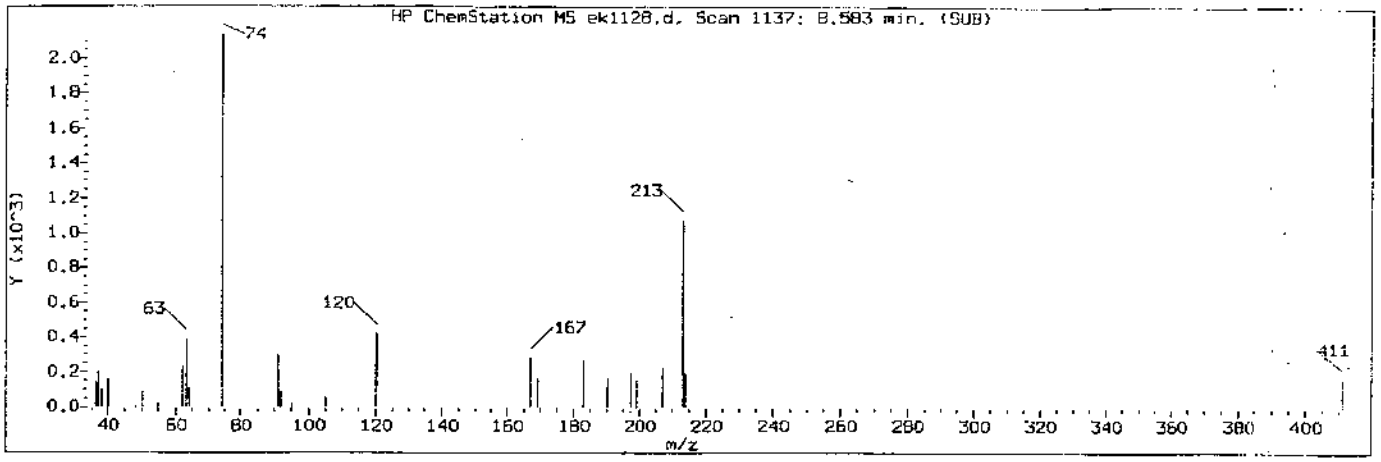
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 85
Compound Name	: 1-Chloronaphthalene
Scan Number	: 933
Retention Time (minutes)	: 7.363
Quant Ion	: 162
Area	: 15844
Concentration (ng/ul)	: 0.6340
Integration start scan	: 929 Integration stop scan: 933
Y at integration start	: 0 Y at integration end: 0

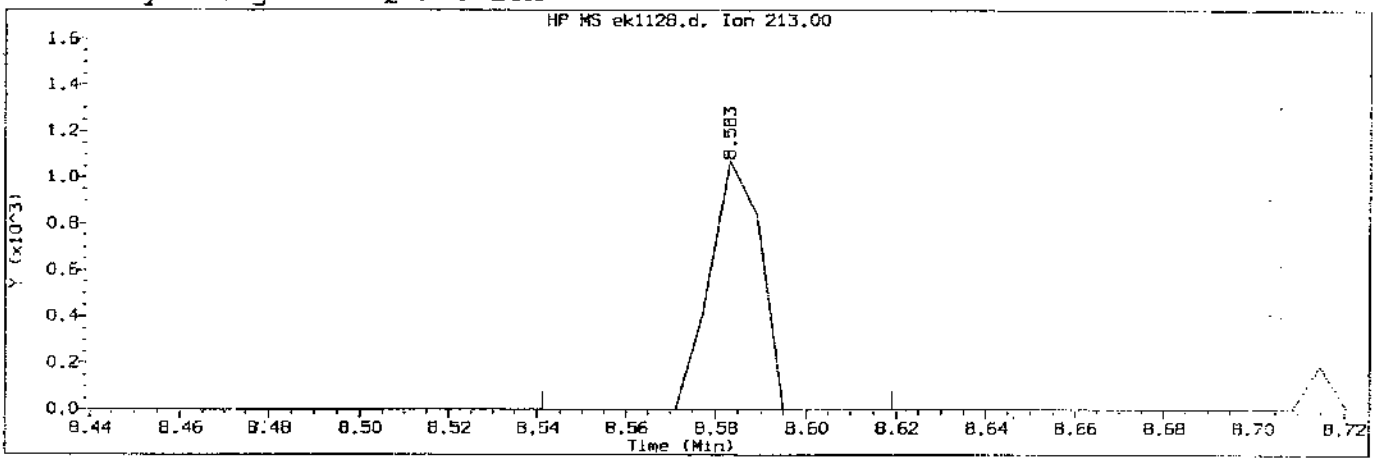
PCH89 8738

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number : 121
Compound Name : 1,3,5-Trinitrobenzene
Scan Number : 1137
Retention Time (minutes): 8.583
Quant Ion : 213
Area (flag) : 834 M
Concentration (ng/ul) : 0.3866
Integration start scan : 1129 Integration stop scan: 1142
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: mnew8270 11/25/11

GC/MS audit/management approval: Matthew E. Barton

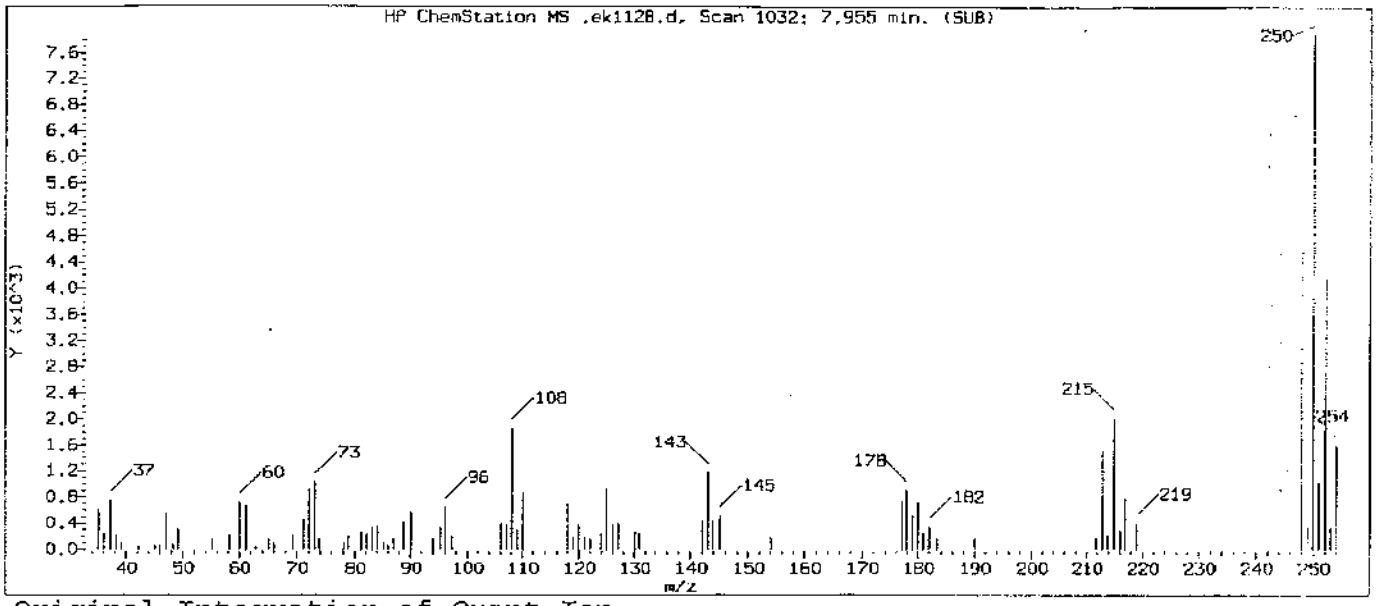
NOV 25 2011

PCH69 2739

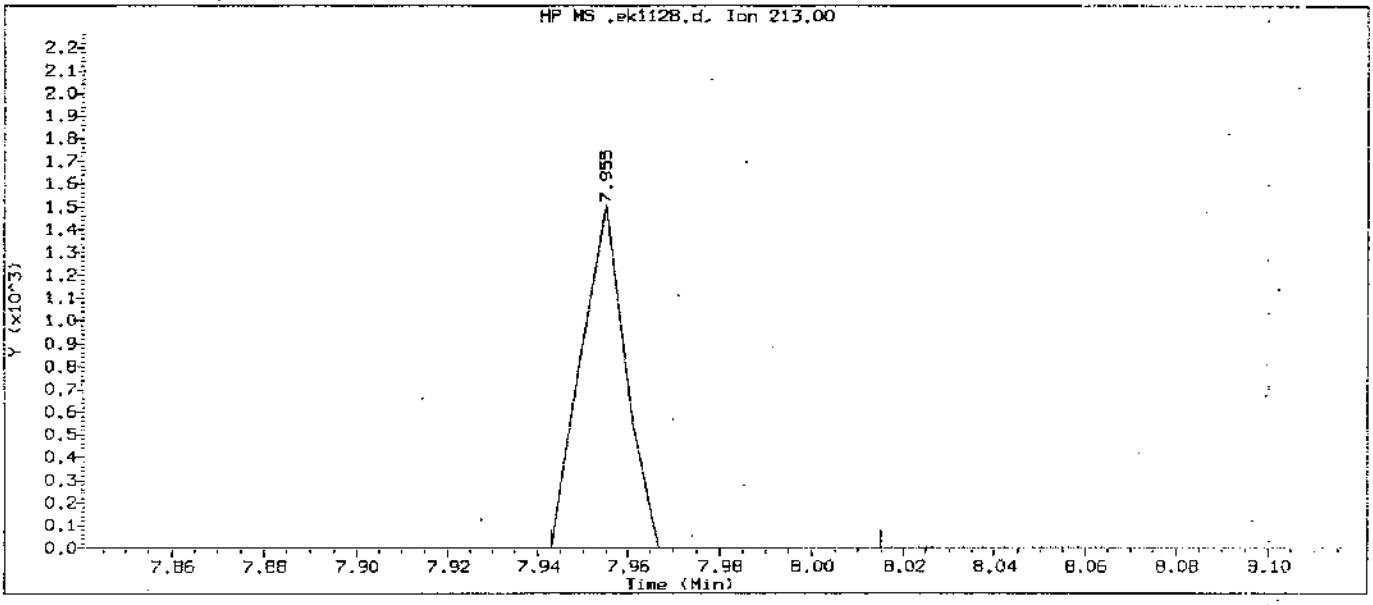
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

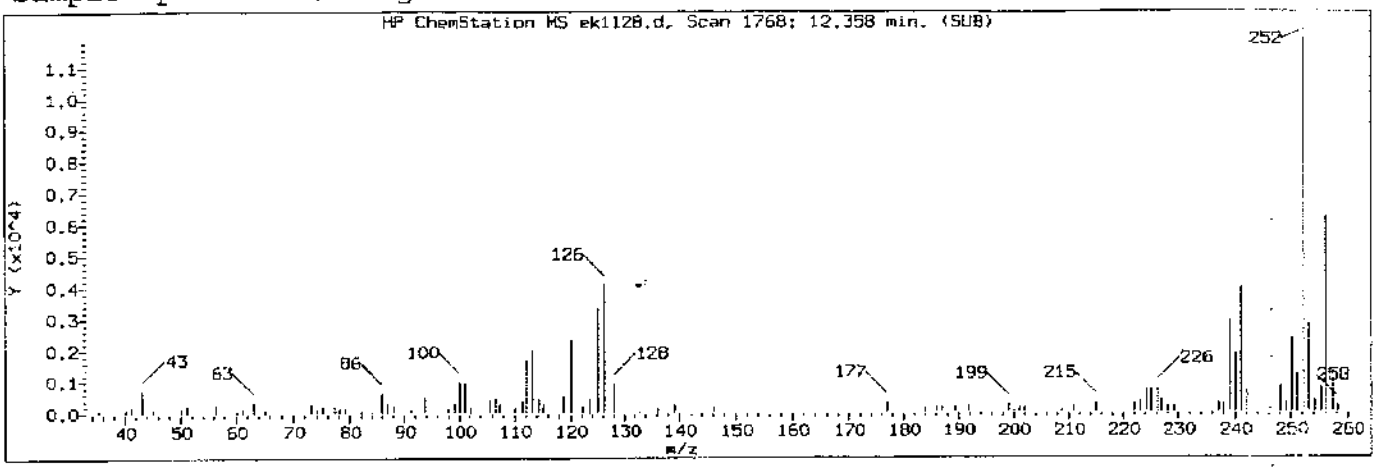
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 121
Compound Name	: 1,3,5-Trinitrobenzene
Scan Number	: 1032
Retention Time (minutes)	: 7.955
Quant Ion	: 213
Area	: 1030
Concentration (ng/ul)	: 3.4598
Integration start scan	: 1029 Integration stop scan: 1041
Y at integration start	: 0 Y at integration end: 0

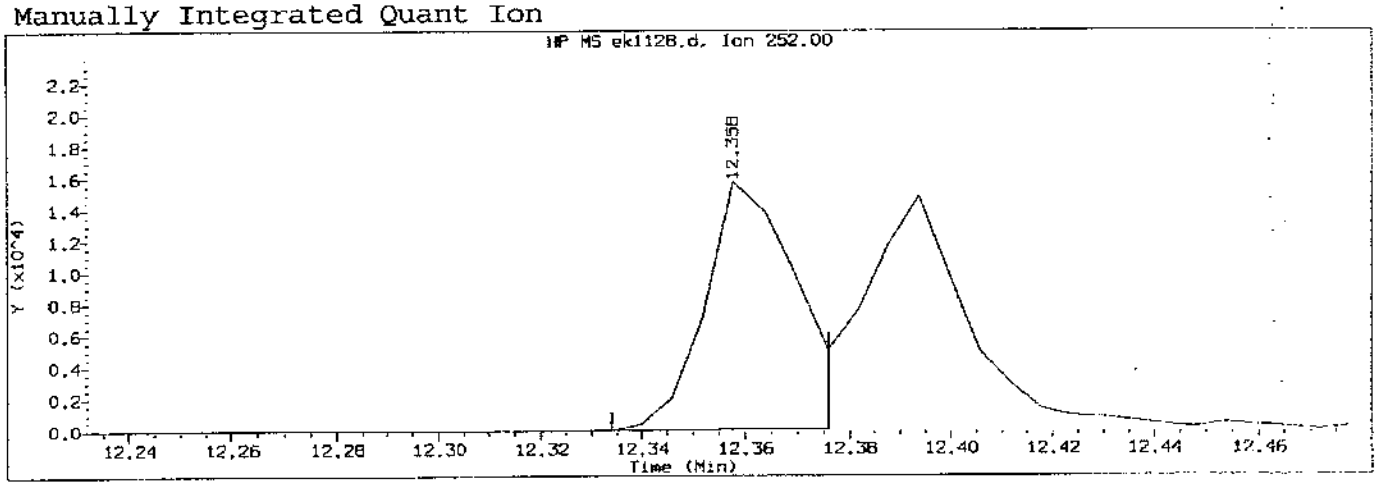
PCH89 6748

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	:	172
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1768
Retention Time (minutes)	:	12.358
Quant Ion	:	252
Area (flag)	:	19317 M
Concentration (ng/ul)	:	0.8631
Integration start scan	:	1763 Integration stop scan: 1770
Y at integration start	:	0 Y at integration end: 20

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 11/23/11

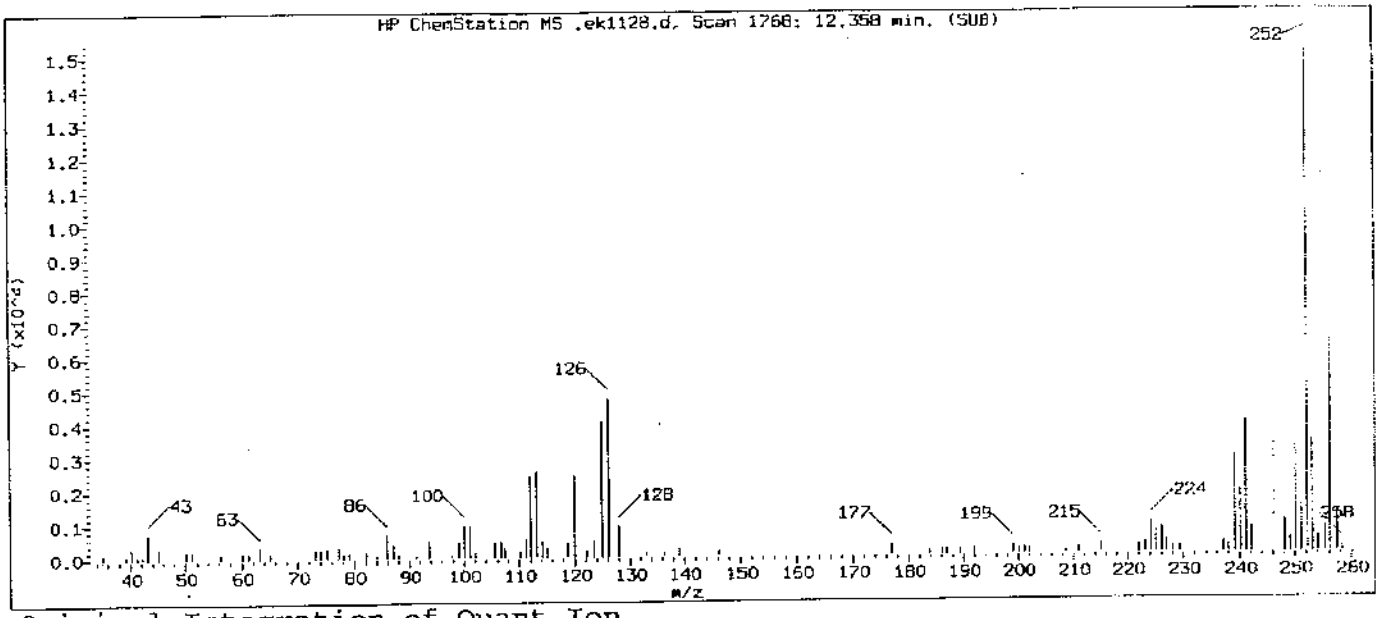
GC/MS audit/management approval: PCN89 8741

NOV 25 2011

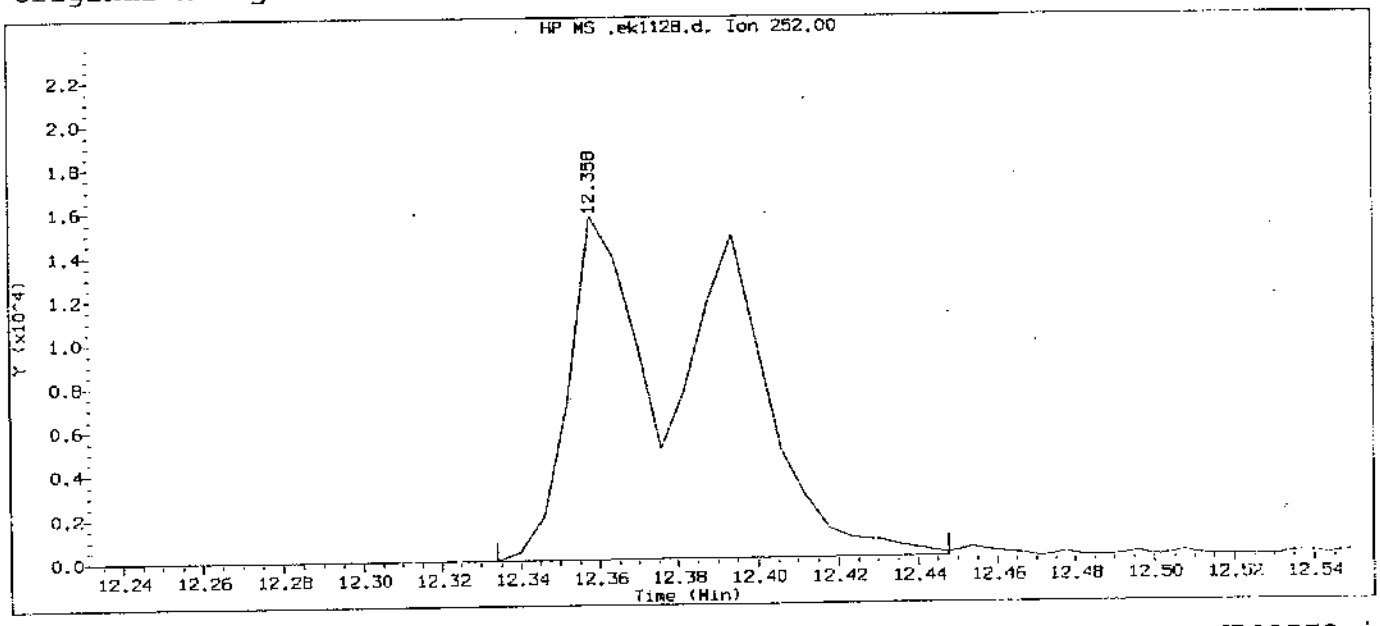
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

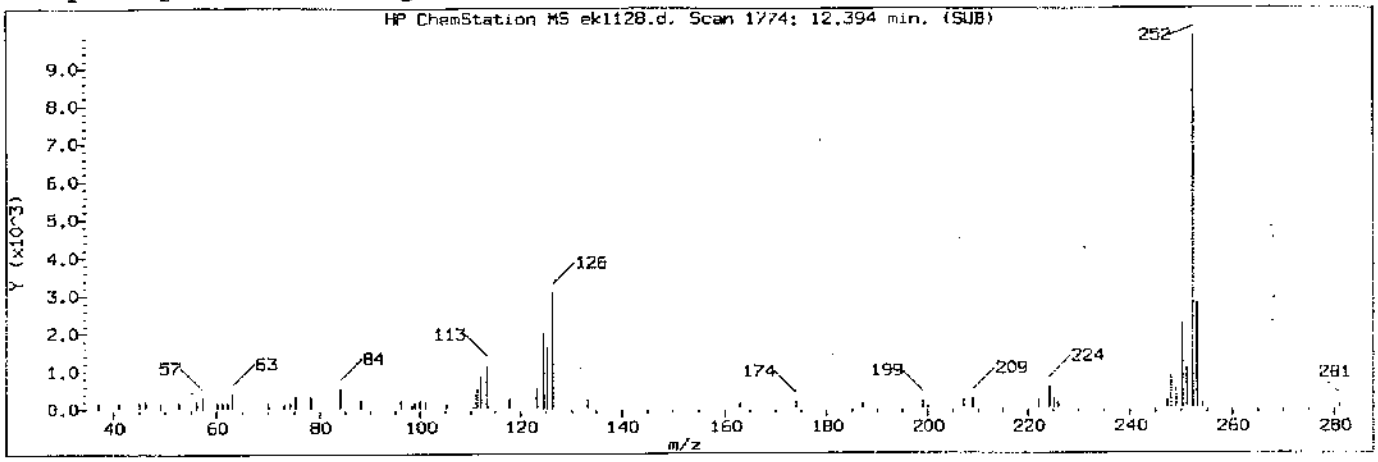
Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 172
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1768
Retention Time (minutes)	: 12.358
Quant Ion	: 252
Area	: 39294
Concentration (ng/ul)	: 0.9658
Integration start scan	: 1763 Integration stop scan: 1782
Y at integration start	: 0 Y at integration end: 55

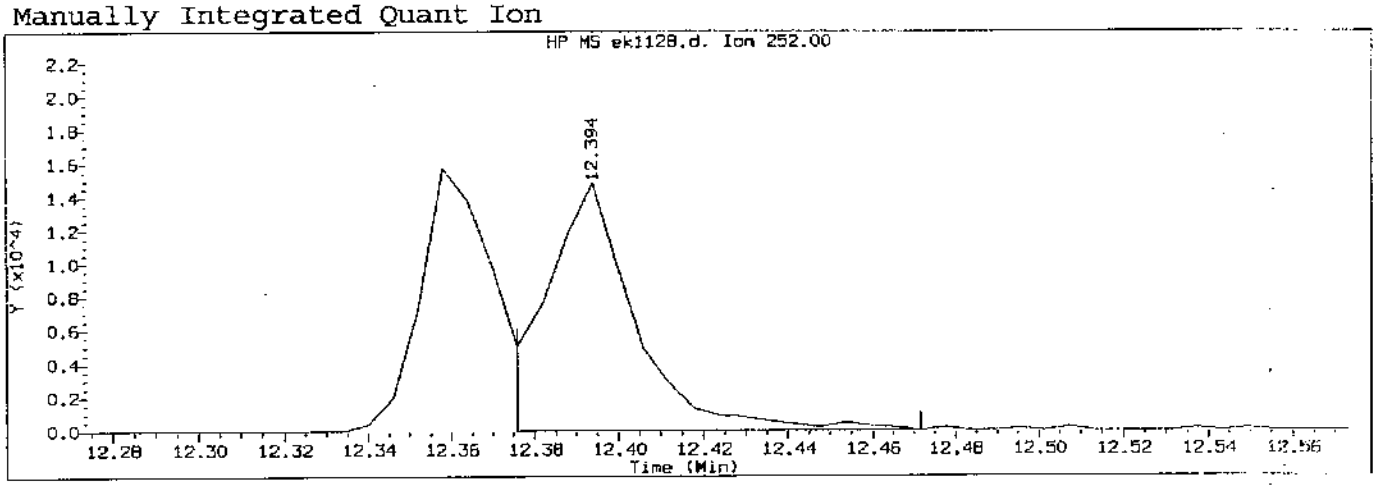
PCH09 8742

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:28
Date, time and analyst ID of latest file update: 23-Nov-2011 08:28 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number : 173
Compound Name : Benzo(k)fluoranthene
Scan Number : 1774
Retention Time (minutes): 12.394
Quant Ion : 252
Area (flag) : 22198 M
Concentration (ng/ul) : 0.9800
Integration start scan : 1770 Integration stop scan: 1786
Y at integration start : 22 Y at integration end: 16

Reason for manual integration (circle one): missed peak / improper integration

Analyst responsible for change: [signature] 11/23/11

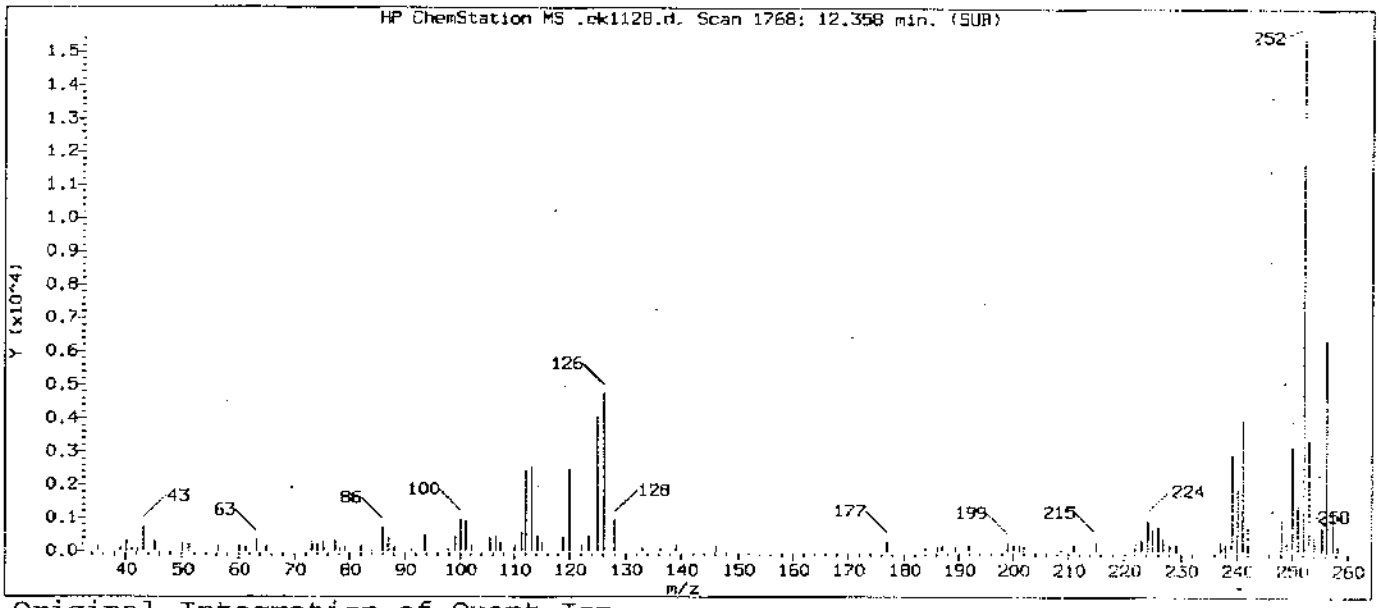
GC/MS audit/management approval: [signature] PCH09 6743

NOV 25 2011

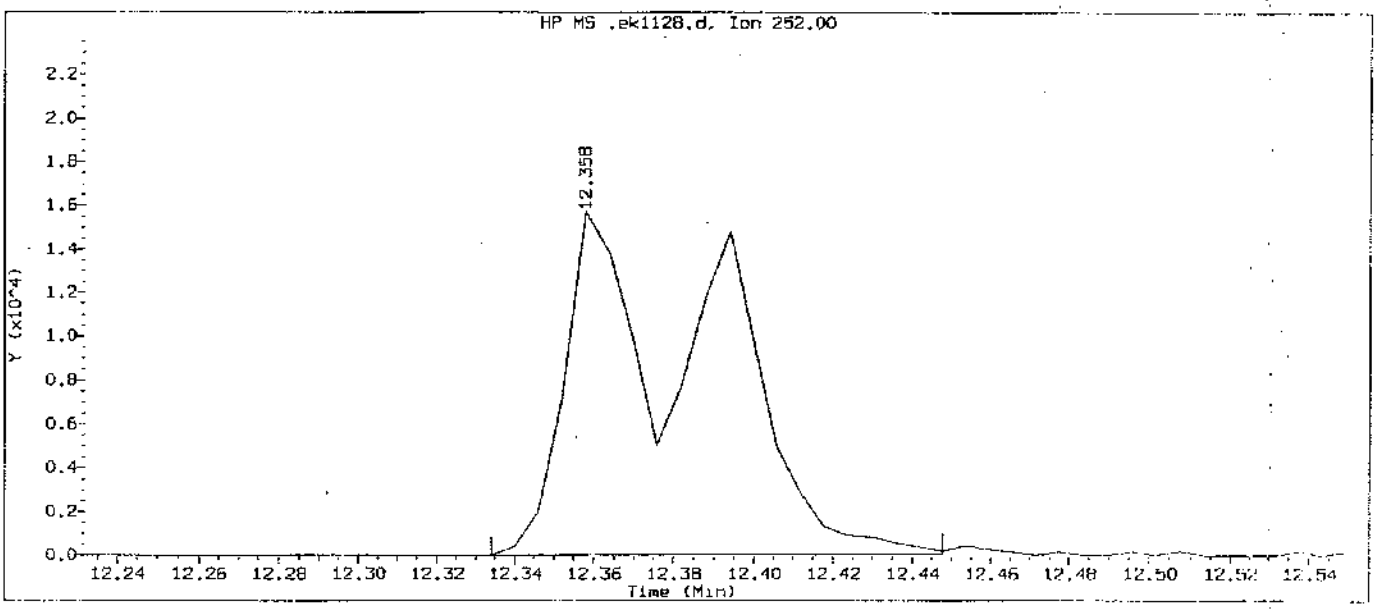
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1128.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 00:43 Analyst ID: jrr02820

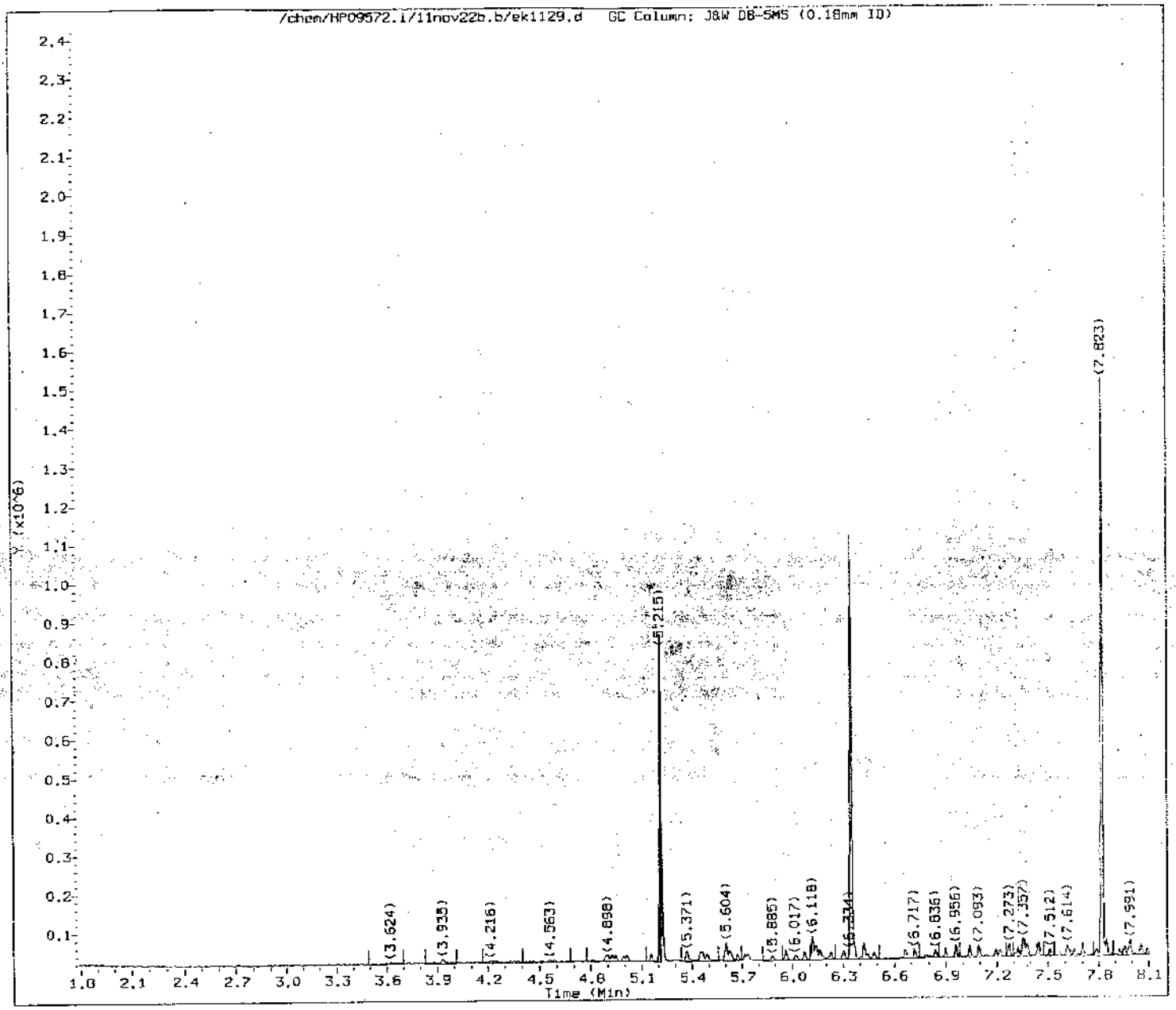
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newall1
Calibration date and time: 23-NOV-2011 08:07
Date, time and analyst ID of latest file update: 23-Nov-2011 08:07 msw02109

Sample Name: SSTD001 Lab Sample ID: STD3191

Compound Number	: 173
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1768
Retention Time (minutes)	: 12.358
Quant Ion	: 252
Area	: 39294
Concentration (ng/ul)	: 0.9667
Integration start scan	: 1763 Integration stop scan: 1782
Y at integration start	: 0 Y at integration end: 55

PCH09 0744

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1128.d, generated on 11/23/2011 at 08:28



Quant Report

Target Revision 3.5

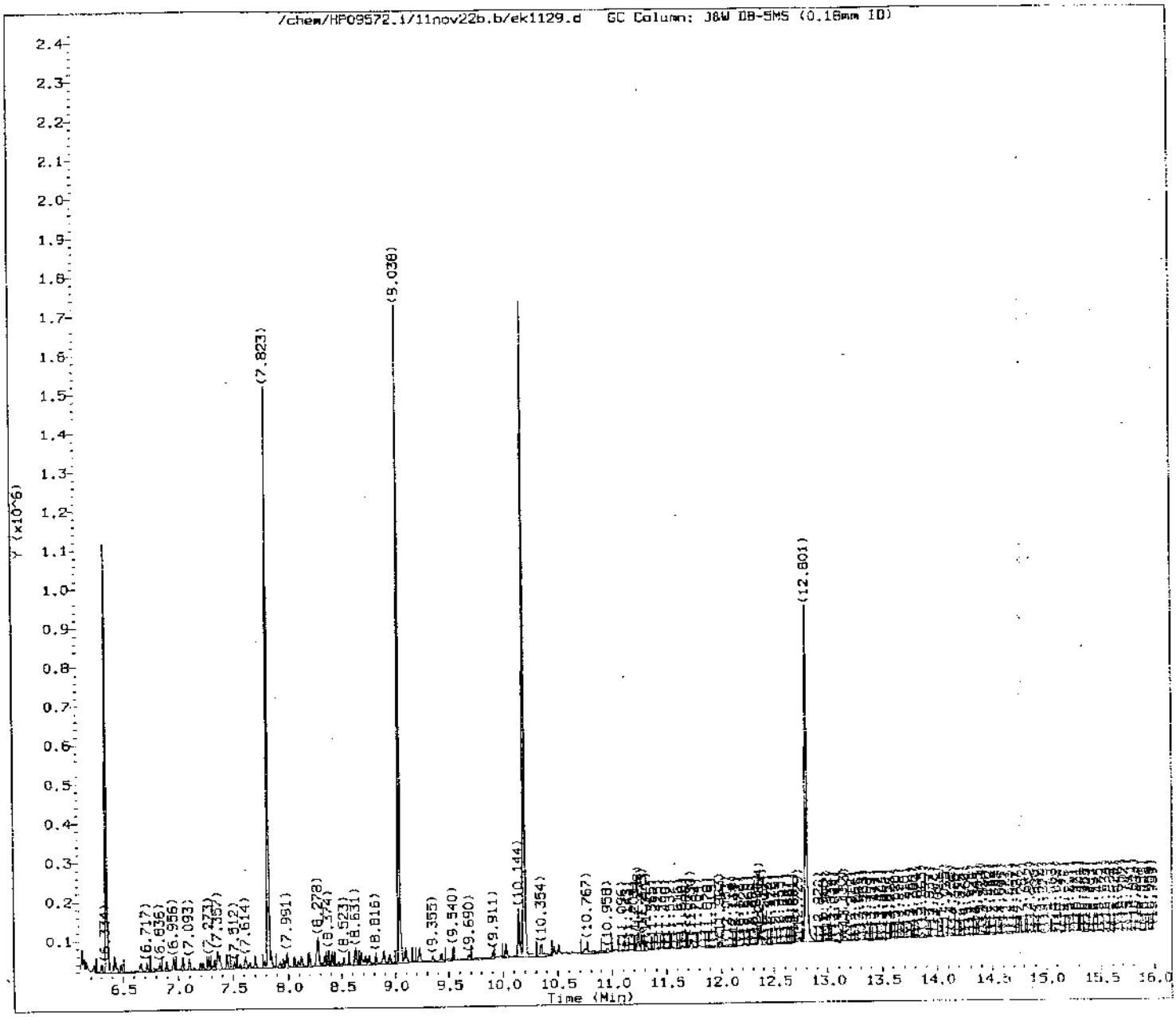
Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

PCH89 6745

23 Nov 2011 11:05



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

PCH85 6746

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) N-Nitrosodimethylamine	(1)	2.864	74	1854M	0.3739
3) Pyridine	(1)	2.960	79	5000M	0.5945
5) 2-Picoline	(1)	3.648	93	4016M	0.4693
6) N-Nitrosomethylethylamine	(1)	3.648	88	2353	0.5440
7) Methyl methanesulfonate	(1)	3.887	80	1802M	0.4356
10) N-Nitrosodiethylamine	(1)	4.222	102	2544M	0.5985
11) Ethyl methanesulfonate	(1)	4.563	109	1813M	0.4451
13) Aniline	(1)	4.922	93	6690	0.4839
16) Phenol	(1)	4.898	94	5765	0.4763
18) bis(2-Chloroethyl)ether	(1)	4.994	93	4712	0.5250
19) 2-Chlorophenol	(1)	5.012	128	3285	0.4267
20) 1,3-Dichlorobenzene	(1)	5.155	146	3693	0.4909
21) 1,4-Dichlorobenzene-d4	(1)	5.215	152	94747	20.0000
22) 1,4-Dichlorobenzene	(1)	5.233	146	4156	0.5359
24) Benzyl alcohol	(1)	5.377	108	2014	0.3388
25) 1,2-Dichlorobenzene	(1)	5.365	146	3906	0.5387
26) 2-Methylphenol	(1)	5.460	108	3729	0.4775
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.484	45	8356	0.5708
28) bis(2-Chloroisopropyl)ether	(1)	5.484	45	8356	0.5708
29) N-Nitrosopyrrolidine	(1)	5.616	100	1909M	0.4060
30) Acetophenone	(1)	5.598	105	6076	0.5240
31) N-Nitroso-di-n-propylamine	(1)	5.604	70	3517	0.4960
32) N-Nitrosomorpholine	(1)	5.640	56	3018	0.4822
33) 4-Methylphenol	(1)	5.604	108	4350	0.4682
34) o-Toluidine	(1)	5.628	106	6185	0.4619
37) Hexachloroethane	(1)	5.670	117	1286	0.4329
39) Nitrobenzene	(2)	5.736	77	5089	0.5598
40) N-Nitrosopiperidine	(2)	5.885	114	2008	0.4902
41) Isophorone	(2)	5.963	82	8583	0.5016
42) 2-Nitrophenol	(2)	6.017	139	1834	0.4611
44) 2,4-Dimethylphenol	(2)	6.071	107	3459	0.4297
45) O,O,O-triethylphosphorothioate	(2)	6.142	198	1306	0.3803
46) bis(2-Chloroethoxy)methane	(2)	6.160	93	5182	0.4736
47) Benzoic acid	(2)	6.118	105	17826	2.3977
49) 2,4-Dichlorophenol	(2)	6.226	162	2727	0.4565
50) 1,2,4-Trichlorobenzene	(2)	6.304	180	3313	0.5232
52) Naphthalene-d8	(2)	6.346	136	410799	20.0000
56) 4-Chloroaniline	(2)	6.423	127	4926	0.4956
57) 2,6-Dichlorophenol	(2)	6.423	162	2753	0.4615
58) Hexachloropropene	(2)	6.447	213	1226	0.3936
60) Hexachlorobutadiene	(2)	6.483	225	1383	0.5051
63) Caprolactam	(2)	6.776	113	1522M	0.4629
64) N-Nitrosodi-n-butylamine	(2)	6.717	84	3043M	0.0000

M = Compound was manually integrated. A = User selected an alternate hit

PCH09 8747

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68)	4-Chloro-3-methylphenol	(2)	6.836	107	3671	0.4805
69)	Safrole	(2)	6.896	162	3377	0.5780
72)	Hexachlorocyclopentadiene	(3)	7.093	237	563	0.2125
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.099	216	3460	0.5942
74)	cis-Isosafrole	(3)	7.141	162	581	0.0613
75)	2,4,6-Trichlorophenol	(3)	7.195	196	1945	0.4443
77)	2,4,5-Trichlorophenol	(3)	7.219	196	2213	0.4368
79)	trans-Isosafrole	(3)	7.327	162	3082	0.4502
80)	Isosafrole	(3)	7.327	162	3082	0.5058
83)	1,1'-Biphenyl	(3)	7.351	154	9806	0.5308
84)	2-Chloronaphthalene	(3)	7.363	162	10518M	0.6117
85)	1-Chloronaphthalene	(3)	7.381	162	6432M	0.4446
88)	Diphenyl ether	(3)	7.440	170	5048	0.5126
89)	2-Nitroaniline	(3)	7.446	138	1635	0.3122
90)	1,4-Naphthoquinone	(3)	7.512	158	2459	0.3816
91)	1,4-Dinitrobenzene	(3)	7.566	168	732M	0.2724
92)	Dimethylphthalate	(3)	7.614	163	9480	0.5593
93)	1,3-Dinitrobenzene	(3)	7.626	168	811M	0.2572
94)	2,6-Dinitrotoluene	(3)	7.656	165	1030	0.2597
97)	3-Nitroaniline	(3)	7.787	138	1926	0.4112
98)	Acenaphthene-d10	(3)	7.823	164	261246	20.0000
100)	2,4-Dinitrophenol	(3)	7.877	184	139M	0.0566
101)	Pentachlorobenzene	(3)	7.955	250	2275	0.4933
103)	4-Nitrophenol	(3)	7.925	109	1258	0.5051
104)	Dibenzofuran	(3)	7.991	168	10200	0.4886
105)	2,4-Dinitrotoluene	(3)	7.979	165	1903	0.3508
106)	1-Naphthylamine	(3)	8.057	143	7427	0.4394
107)	2,3,4,6-Tetrachlorophenol	(3)	8.093	232	1662	0.4875
108)	2-Naphthylamine	(3)	8.122	143	8510	0.4967
109)	Diethylphthalate	(3)	8.194	149	8344	0.4967
110)	Thionazin	(3)	8.260	107	1571	0.4416
112)	4-Chlorophenyl-phenylether	(3)	8.284	204	3849	0.4862
113)	5-Nitro-o-toluidine	(3)	8.284	152	2066	0.3744
114)	4-Nitroaniline	(3)	8.284	138	2158	0.4179
115)	4,6-Dinitro-2-methylphenol	(4)	8.314	198	592	0.1780
116)	1-Nitronaphthalene	(4)	9.223	173	228	0.0000
117)	N-Nitrosodiphenylamine	(4)	8.374	169	6891	0.4395
118)	1,2-Diphenylhydrazine	(4)	8.410	77	10475	0.4825
120)	Tetraethyldithiopyrophosphate	(4)	8.523	97	1069	0.3628
121)	1,3,5-Trinitrobenzene	(4)	8.583	213	509M	3.2706
122)	Diallate (peak 1)	(4)	8.619	86	3946	0.3516
123)	Phorate	(4)	8.625	75	4219	0.3095
124)	Phenacetin	(4)	8.631	108	4209	0.4034

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

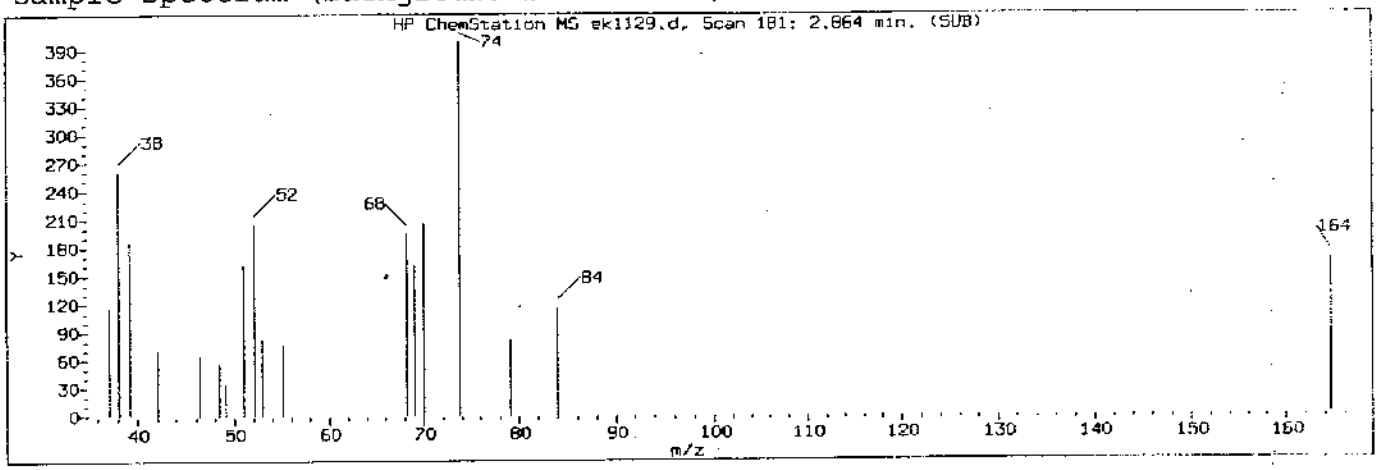
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

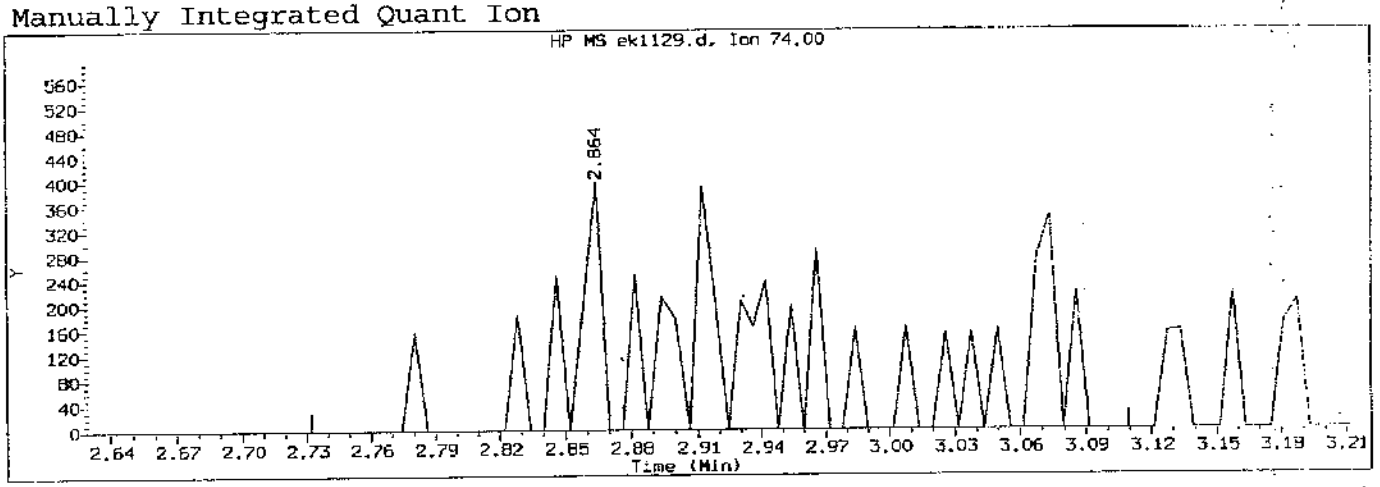
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
125) 4-Bromophenyl-phenylether	(4)	8.679	248	2143	0.5532
126) Diallate (peak 2)	(4)	8.691	86	1323M	0.1890
128) Dimethoate	(4)	8.757	87	3346	0.3981
129) Diallate TRANS/CIS	(4)	23.156	86	5269	0.5182
131) Pentachlorophenol	(4)	8.882	266	1132	0.4175
132) Pentachloronitrobenzene	(4)	8.894	237	569M	0.3522
133) 4-Aminobiphenyl	(4)	8.894	169	6398	0.4466
134) Pronamide	(4)	8.948	173	2503	0.3364
135) Phenanthrene-d10	(4)	9.038	188	470369	20.0000
136) Dinoseb	(4)	9.038	211	548M	3.0111
140) Carbazole	(4)	9.235	167	12958	0.4995
141) Methyl parathion	(4)	9.355	109	1416	0.2336
142) Di-n-butylphthalate	(4)	9.540	149	11060	0.3676
143) Parathion	(4)	9.678	109	820M	0.2046
144) 4-Nitroquinoline-1-oxide	(4)	9.690	190	225M	2.5300
146) Isodrin	(4)	9.905	193	1299M	0.4585
152) Benzidine	(5)	10.144	184	43745	2.4633
158) p-Dimethylaminoazobenzene	(5)	10.467	225	1412	0.9322
159) Chlorobenzilate	(5)	10.509	139	3101	0.3624
160) 3,3'-Dimethylbenzidine	(5)	10.743	212	3558	1.4682
161) Butylbenzylphthalate	(5)	10.767	149	4923	0.3609
162) 2-Acetylaminofluorene	(5)	10.952	181	2870	0.2455
164) 3,3'-Dichlorobenzidine	(5)	11.227	252	2501	0.3147
165) 4,4'-Methylenebis(2-Chloroanil	(5)	11.239	231	1450M	0.3410
167) Pyrene-d10	(5)	10.198	212	538394	20.0000
169) bis(2-Ethylhexyl)phthalate	(5)	11.311	149	5320	0.2933
189) 6-Methylchrysene	(5)	11.730	242	6421	0.3919
190) Dibenz(a,h)acridine	(6)	13.806	279	3290	0.2331
170) Di-n-octylphthalate	(6)	11.993	149	5322	0.1824
191) Dibenz(a,j)acridine	(6)	13.865	279	1919	0.1223
171) 7,12-Dimethylbenz[a]anthracene	(6)	12.364	256	2761	0.9594
175) Perylene-d12	(6)	12.801	264	356261	20.0000
202) NDPA as diphenylamine	(4)	8.374	169	6891	0.4363
176) 3-Methylcholanthrene	(6)	13.153	268	3183	1.2488
9) 2-Fluorophenol	(1)	3.935	112	2914	0.3984
14) Phenol-d5	(1)	4.886	99	4801	0.4537
15) Phenol-d6	(1)	4.886	99	4801	0.4537
38) Nitrobenzene-d5	(2)	5.718	82	4563	0.5116
78) 2-Fluorobiphenyl	(3)	7.273	172	8108	0.5129
119) 2,4,6-Tribromophenol	(3)	8.469	330	600	0.3857
156) Terphenyl-d14	(5)	10.354	244	8399	0.5172

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 2
Compound Name	: N-Nitrosodimethylamine
Scan Number	: 181
Retention Time (minutes)	: 2.864
Quant Ion	: 74
Area (flag)	: 1854 M
Concentration (ng/ul)	: 0.3739
Integration start scan	: 158 Integration stop scan: 221
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 11/23/11

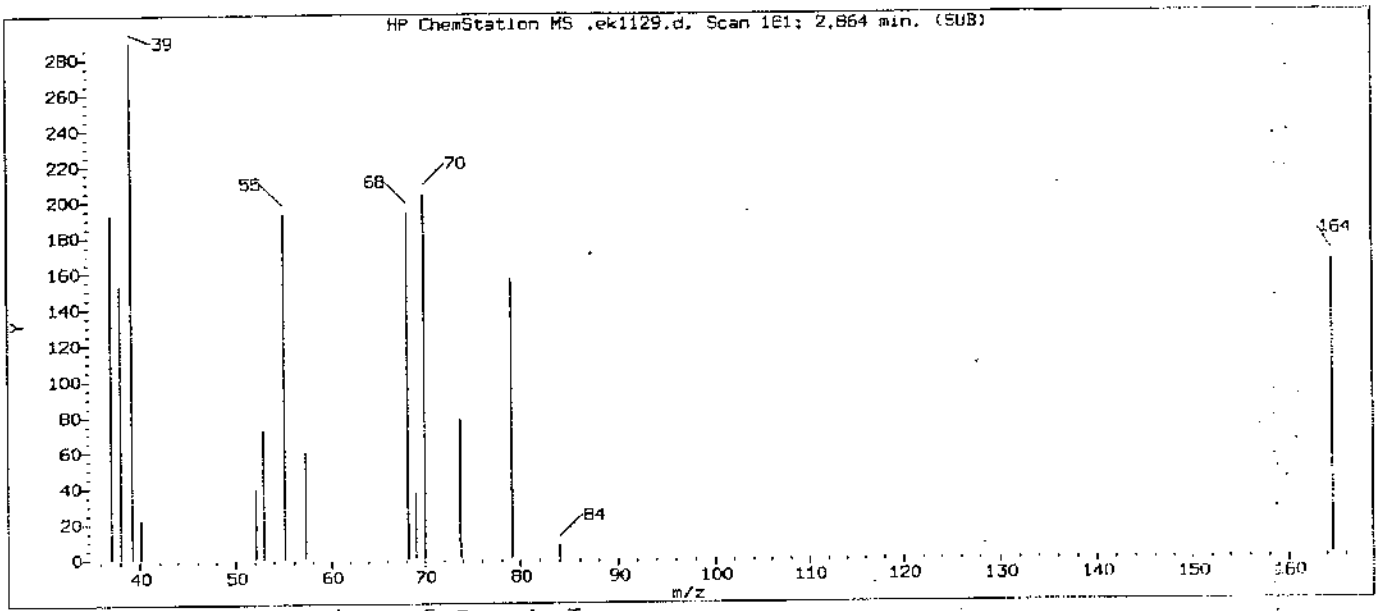
GC/MS audit/management approval: PCH69 0756

NOV 25 2011

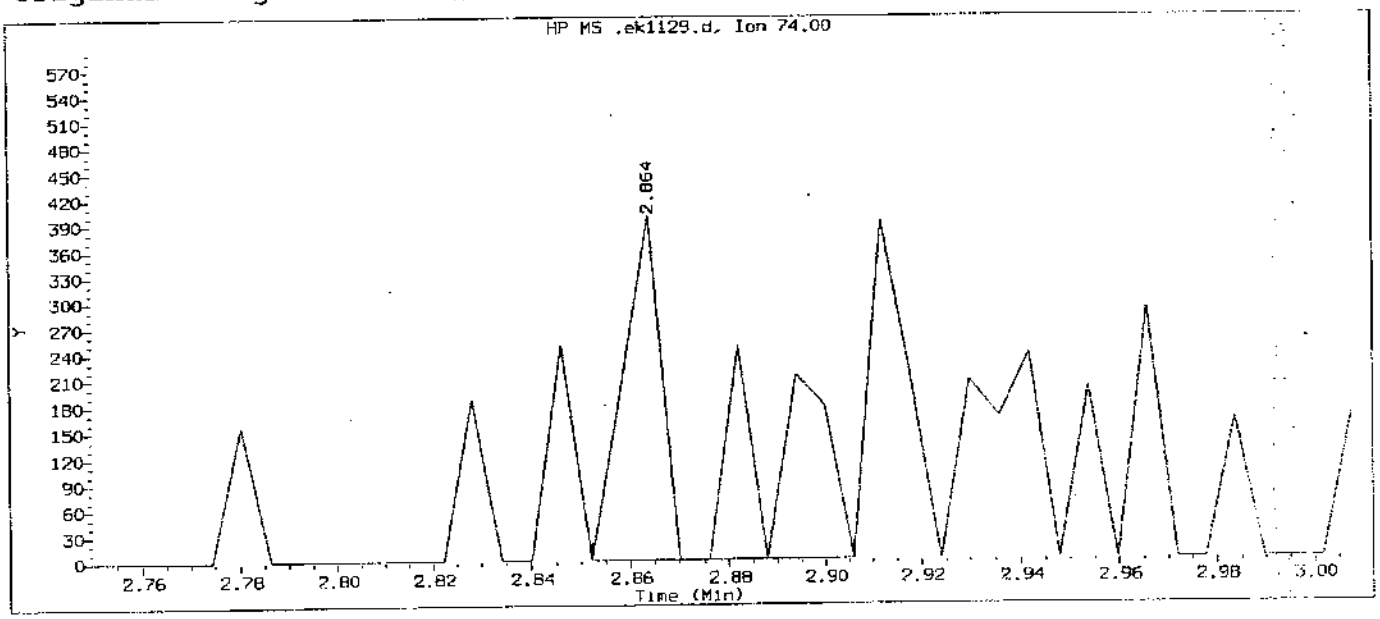
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

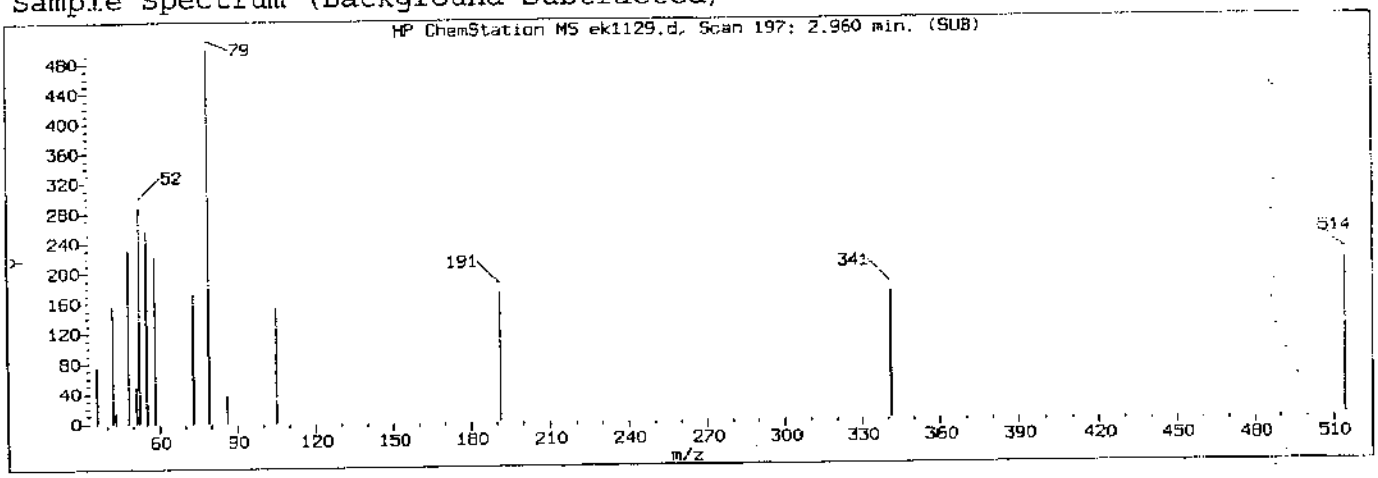
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 2
Compound Name : N-Nitrosodimethylamine
Scan Number : 181
Retention Time (minutes): 2.864
Quant Ion : 74
Area : 442
Concentration (ng/ul) : 0.0891
Integration start scan : 178 Integration stop scan: 187
Y at integration start : 0 Y at integration end: 0

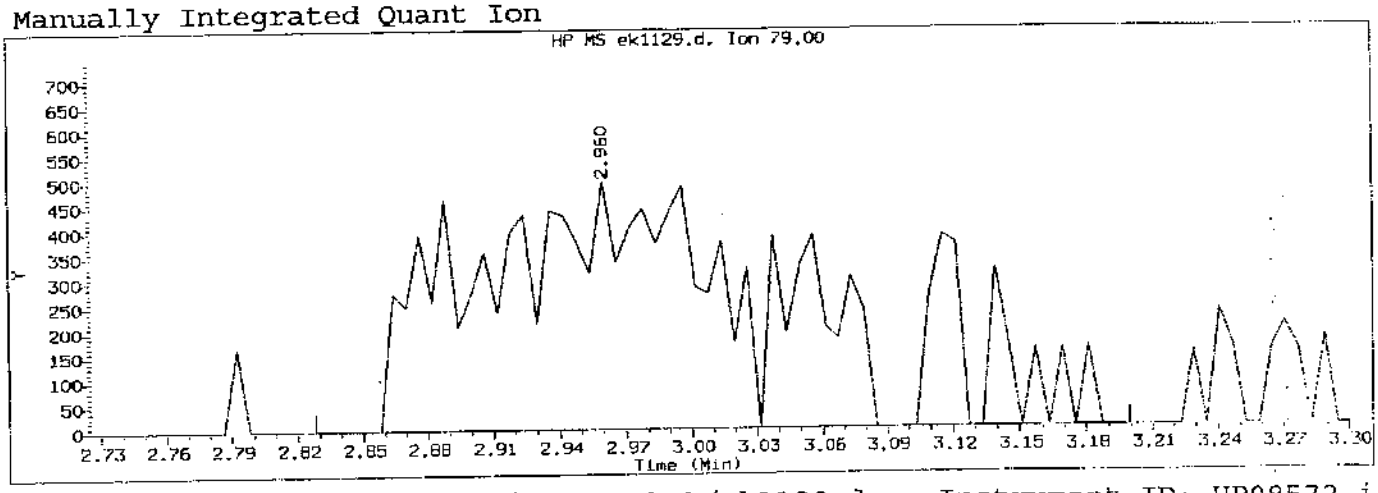
PCH09 0751

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	:	3
Compound Name	:	Pyridine
Scan Number	:	197
Retention Time (minutes)	:	2.960
Quant Ion	:	79
Area (flag)	:	5000 M
Concentration (ng/ul)	:	0.5945
Integration start scan	:	174 Integration stop scan: 236
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 11/23/11

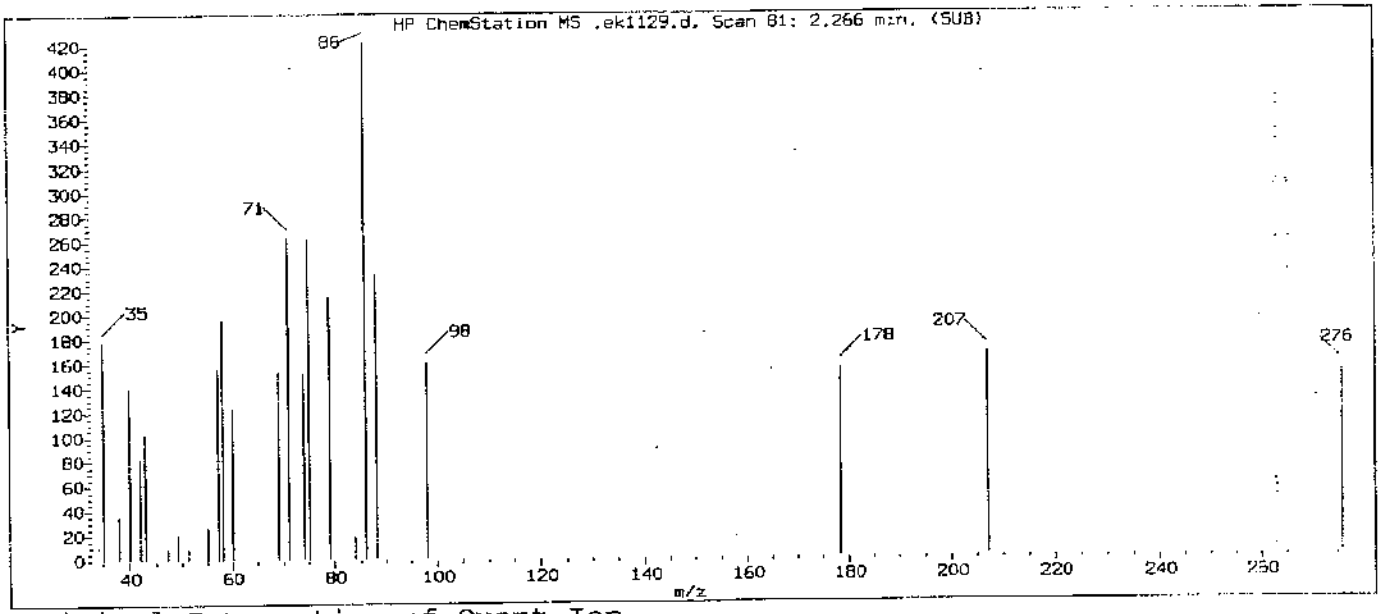
GC/MS audit/management approval: [signature] PCH09 8752

NOV 25 2011

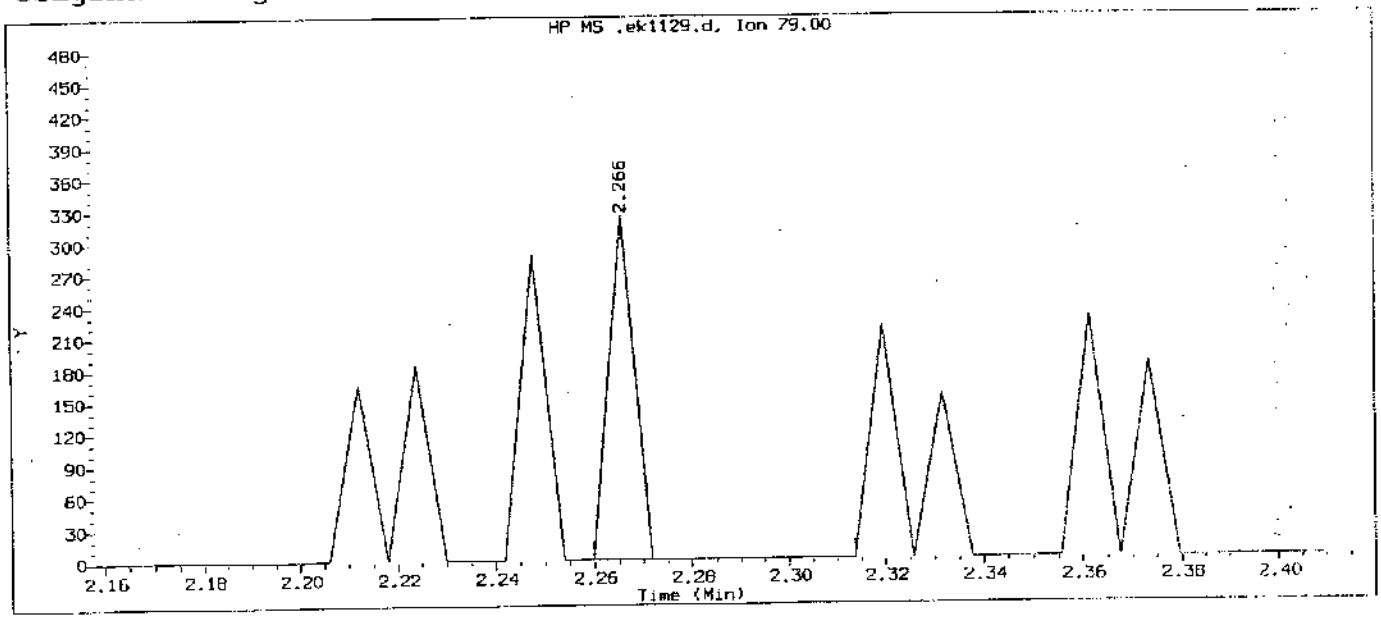
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

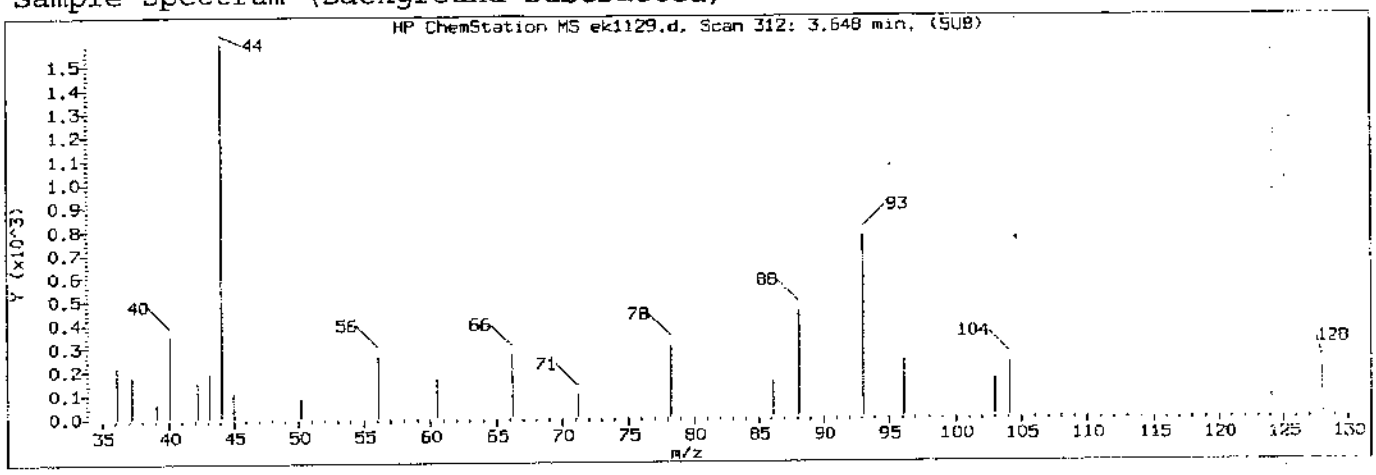
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 3		
Compound Name	: Pyridine		
Scan Number	: 81		
Retention Time (minutes)	: 2.266		
Quant Ion	: 79		
Area	: 116		
Concentration (ng/ul)	: 0.0138		
Integration start scan	: 79	Integration stop scan:	88
Y at integration start	: 0	Y at integration end:	0

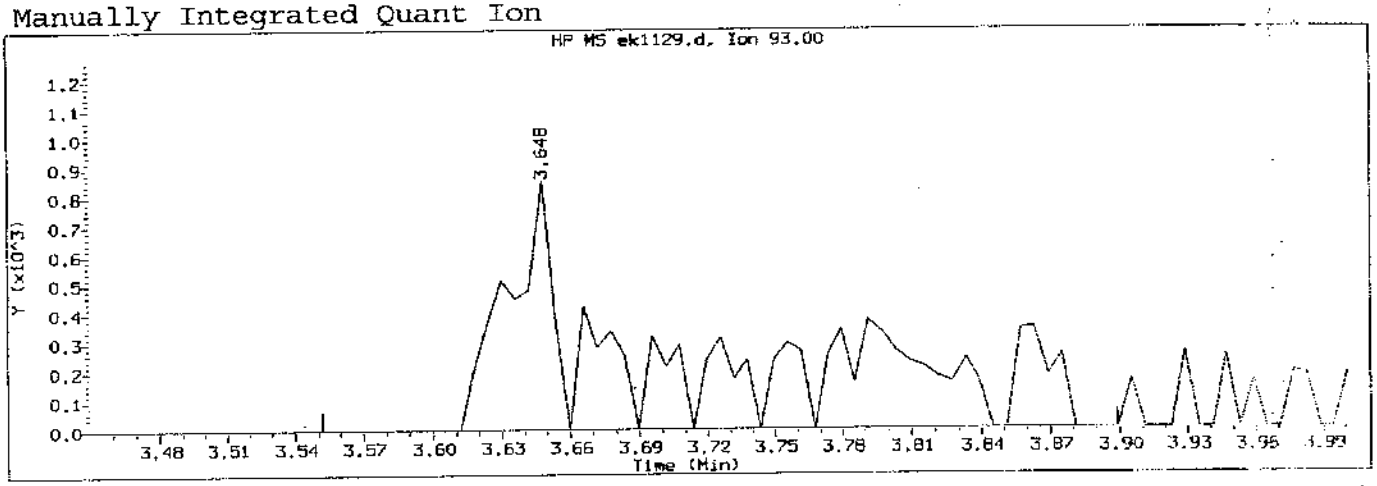
PCH09 8753

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 5
Compound Name : 2-Picoline
Scan Number : 312
Retention Time (minutes): 3.648
Quant Ion : 93
Area (flag) : 4016 M
Concentration (ng/ul) : 0.4693
Integration start scan : 295 Integration stop scan: 353
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: Nov 20 11h31

GC/MS audit/management approval: Matthew E Barton

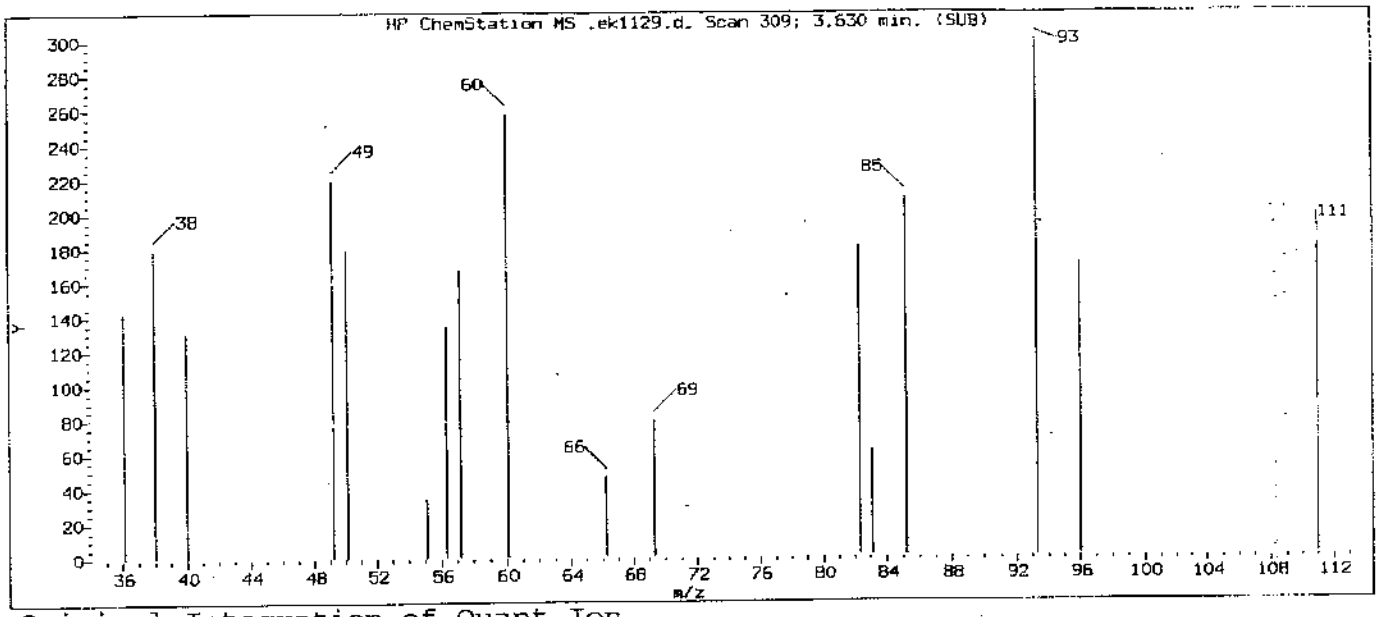
NOV 25 2011

FCH09 6754

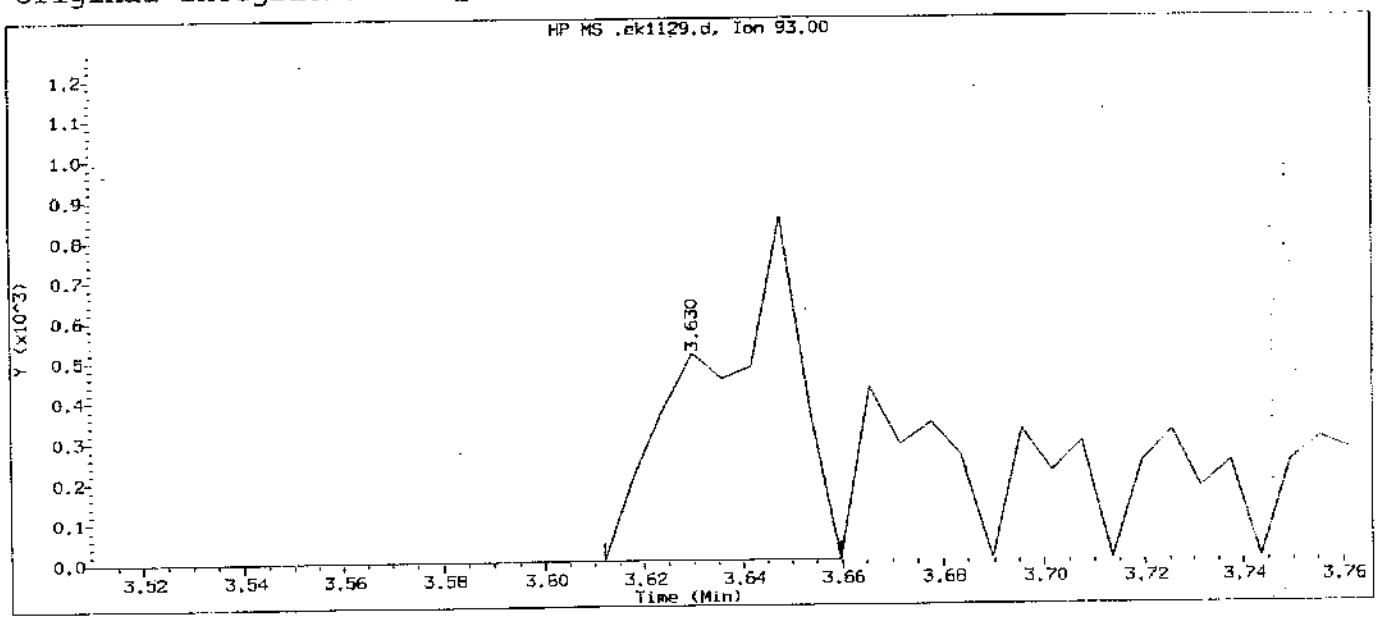
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

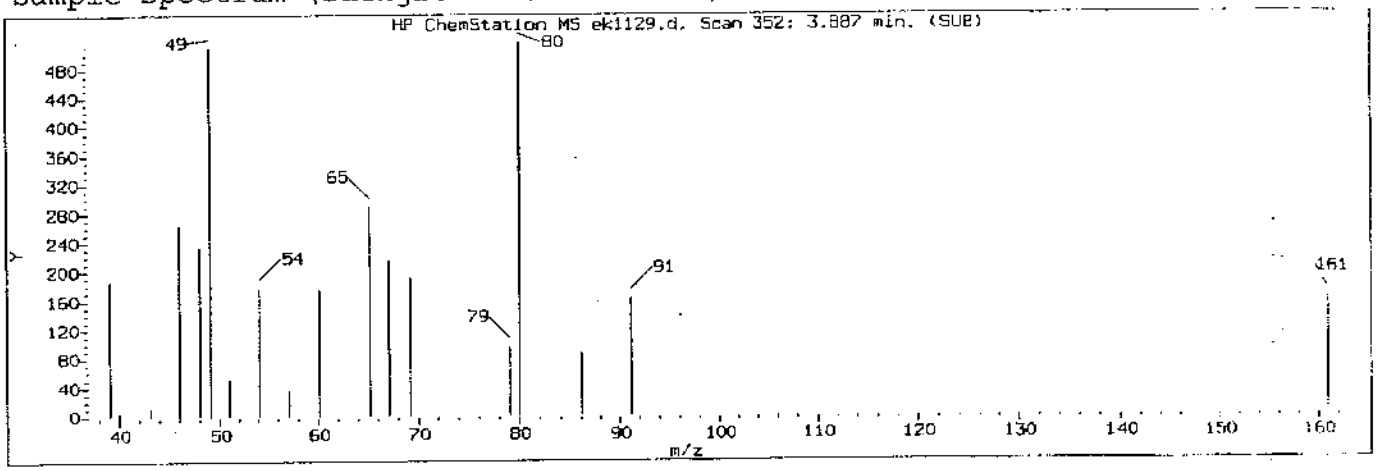
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 5
Compound Name	: 2-Picoline
Scan Number	: 309
Retention Time (minutes)	: 3.630
Quant Ion	: 93
Area	: 1162
Concentration (ng/ul)	: 0.1359
Integration start scan	: 305 Integration stop scan: 313
Y at integration start	: 0 Y at integration end: 0

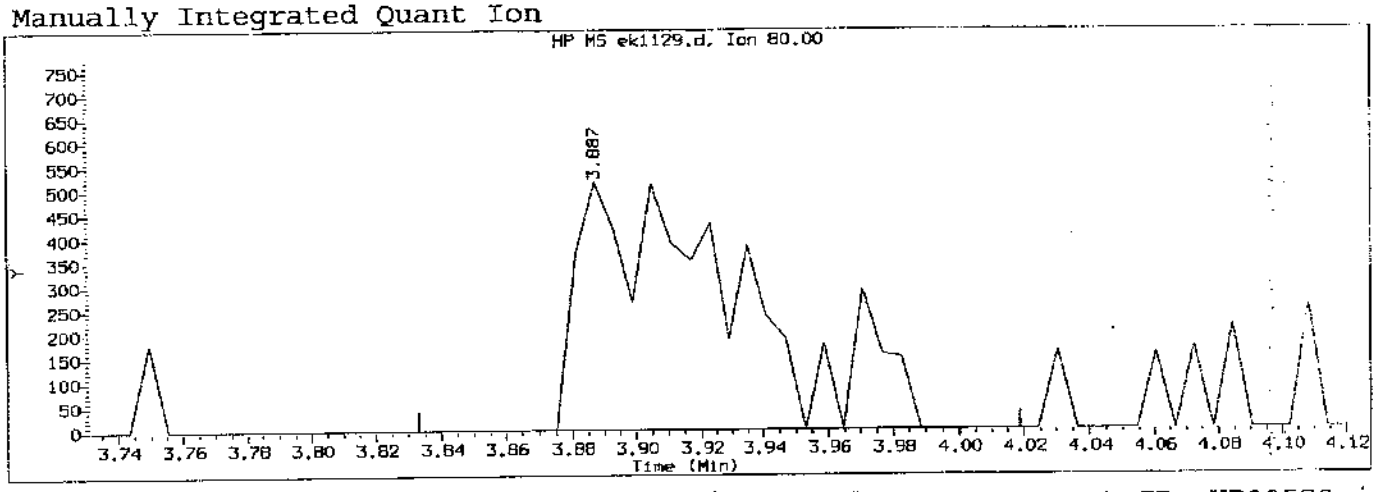
PCH89 8755

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	:	7
Compound Name	:	Methyl methanesulfonate
Scan Number	:	352
Retention Time (minutes)	:	3.887
Quant Ion	:	80
Area (flag)	:	1802 M
Concentration (ng/ul)	:	0.4356
Integration start scan	:	342 Integration stop scan: 373
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: New Data Unit

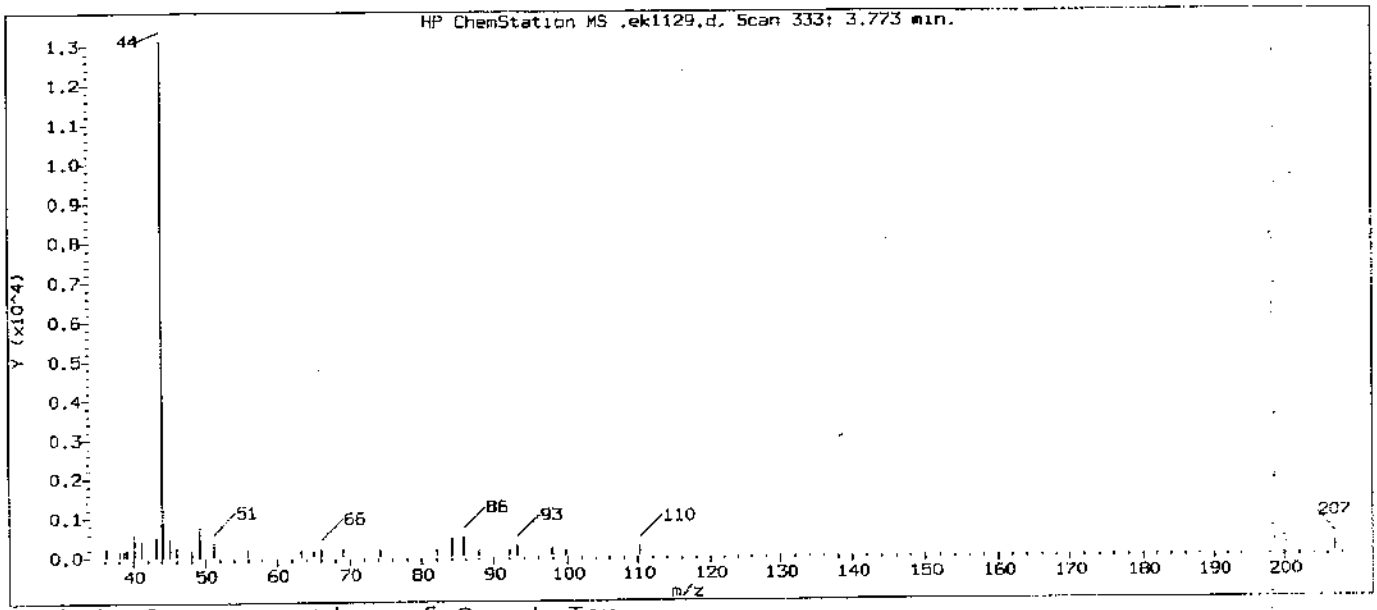
GC/MS audit/management approval: Matthew E. Barton PCH89 8756

NOV 25 2011

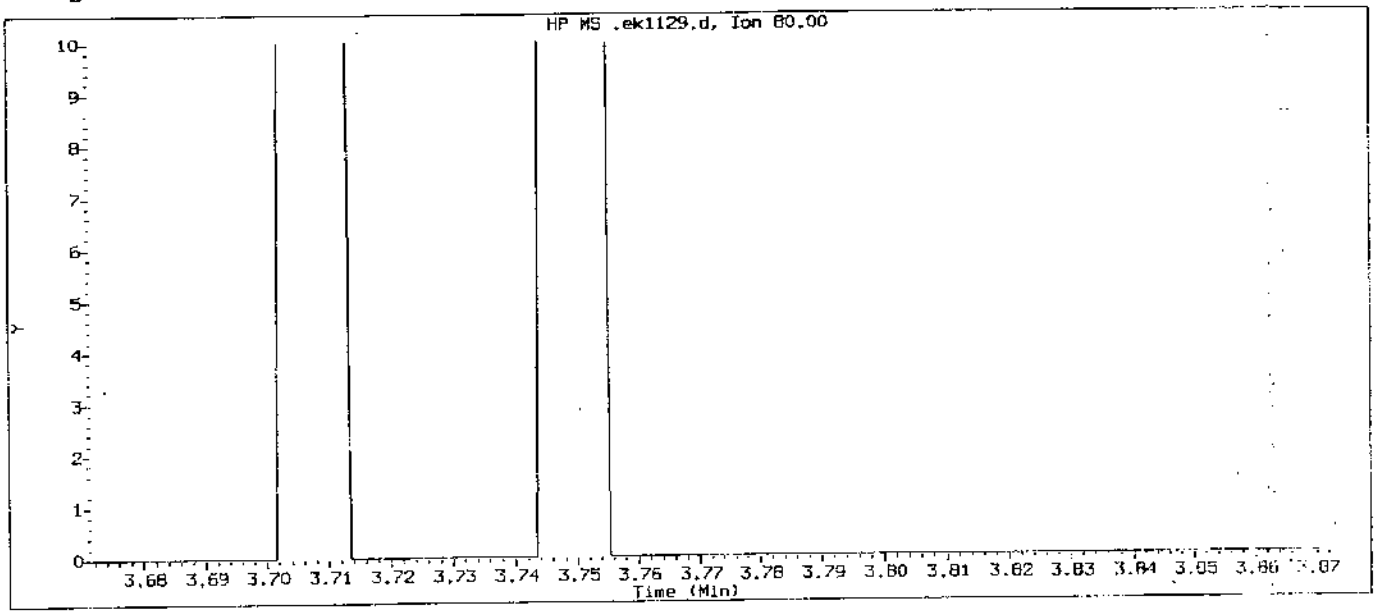
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

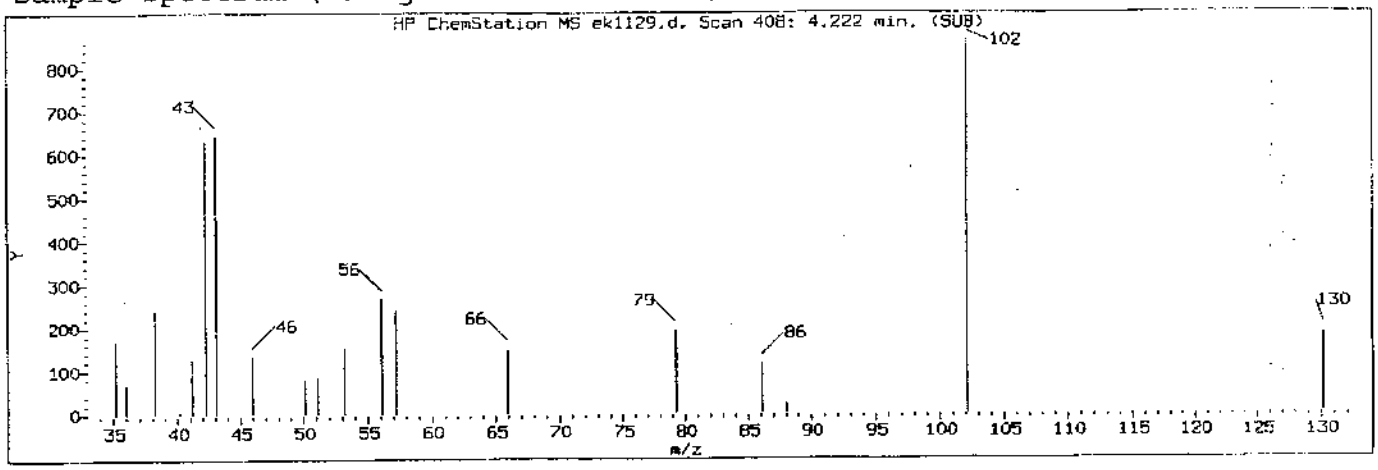
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 7
Compound Name : Methyl methanesulfonate
Expected RT (minutes) : 3.773
Quant Ion : 80

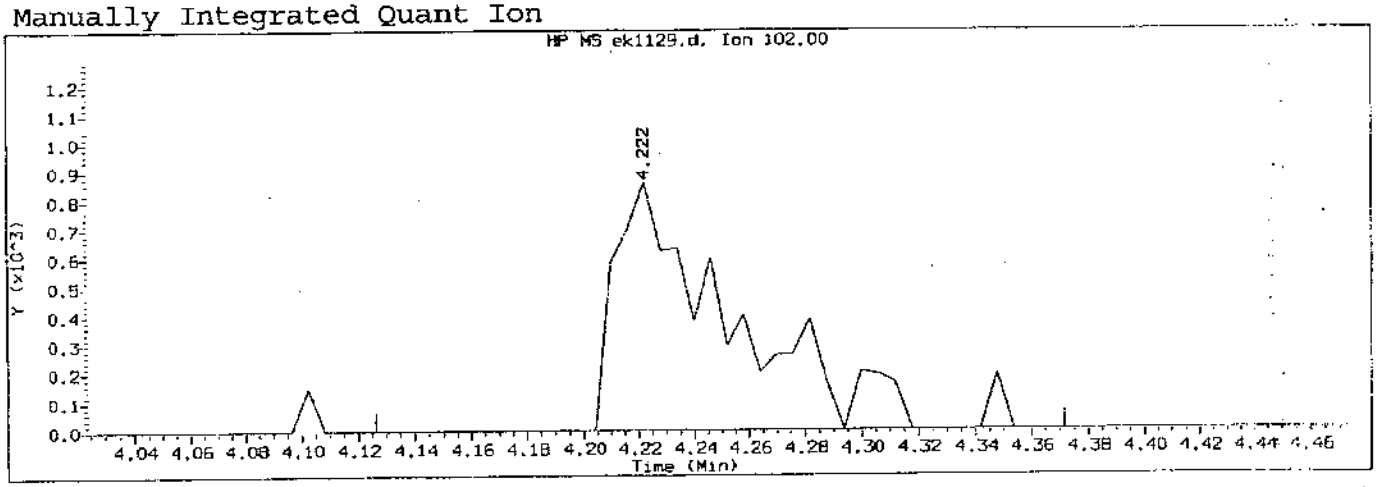
PCH09 8757

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 10
Compound Name : N-Nitrosodiethylamine
Scan Number : 408
Retention Time (minutes): 4.222
Quant Ion : 102
Area (flag) : 2544 M
Concentration (ng/ul) : 0.5985
Integration start scan : 391 Integration stop scan: 432
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Meyjuri Ilhsk

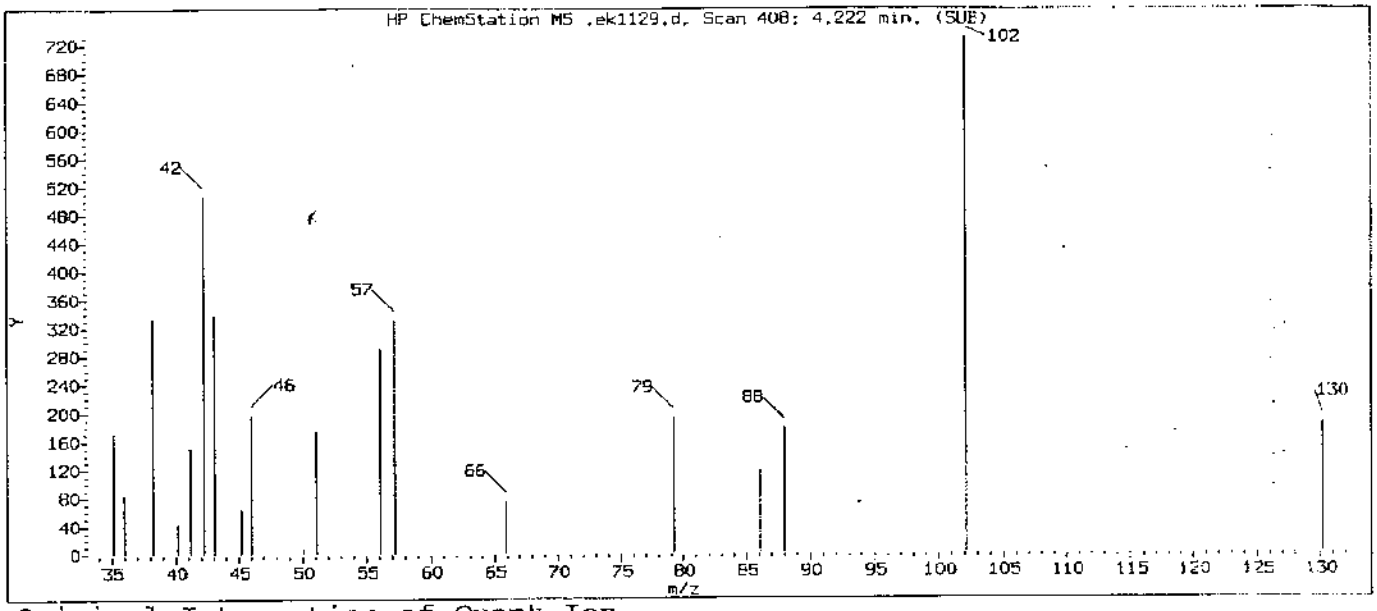
GC/MS audit/management approval: PCH09 8758

NOV 25 2011

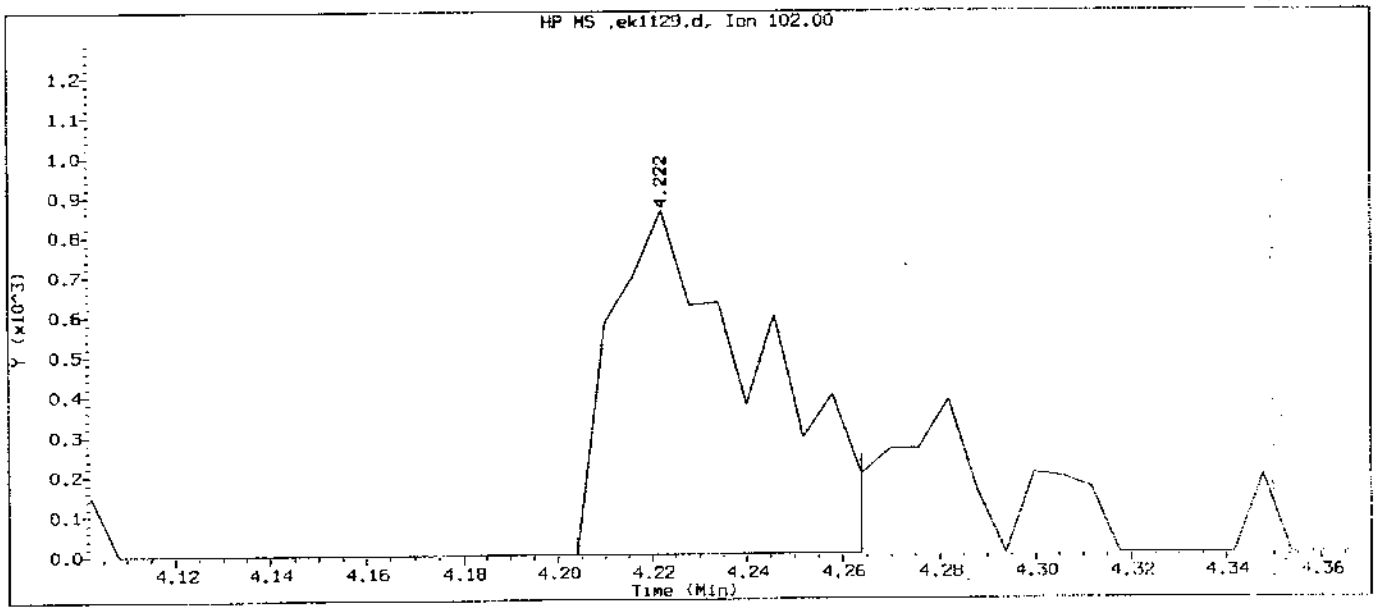
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

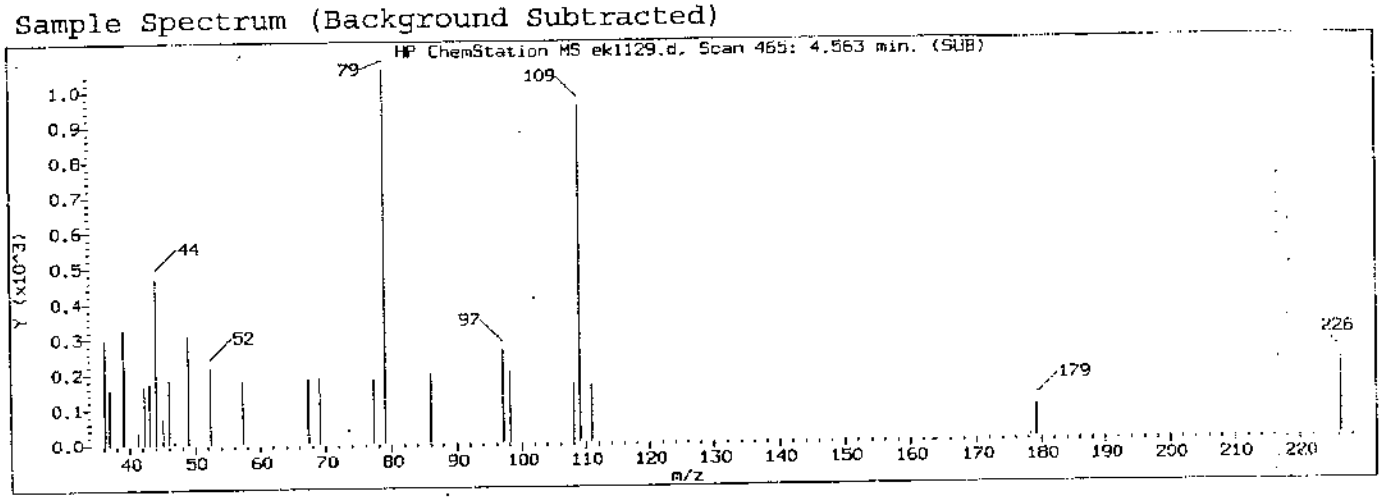
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 10
Compound Name	: N-Nitrosodiethylamine
Scan Number	: 408
Retention Time (minutes)	: 4.222
Quant Ion	: 102
Area	: 1852
Concentration (ng/ul)	: 0.4359
Integration start scan	: 404 Integration stop scan: 414
Y at integration start	: 0 Y at integration end: 0

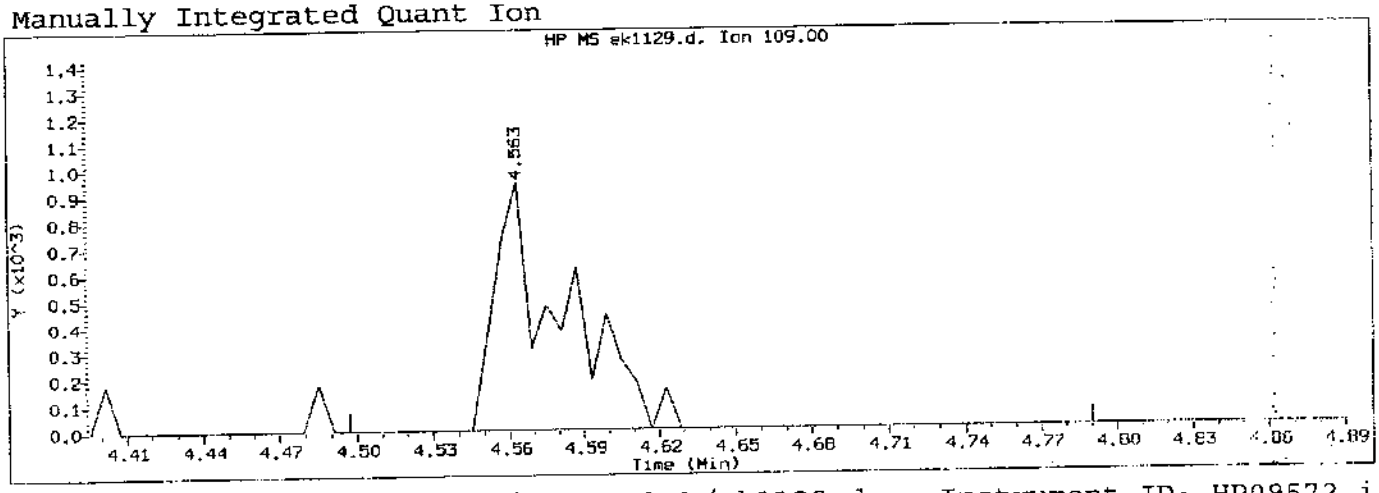
PCH89 8759

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 11
Compound Name	: Ethyl methanesulfonate
Scan Number	: 465
Retention Time (minutes)	: 4.563
Quant Ion	: 109
Area (flag)	: 1813 M
Concentration (ng/ul)	: 0.4451
Integration start scan	: 453 Integration stop scan: 502
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: New Jon Work

GC/MS audit/management approval: Matthew E Barton

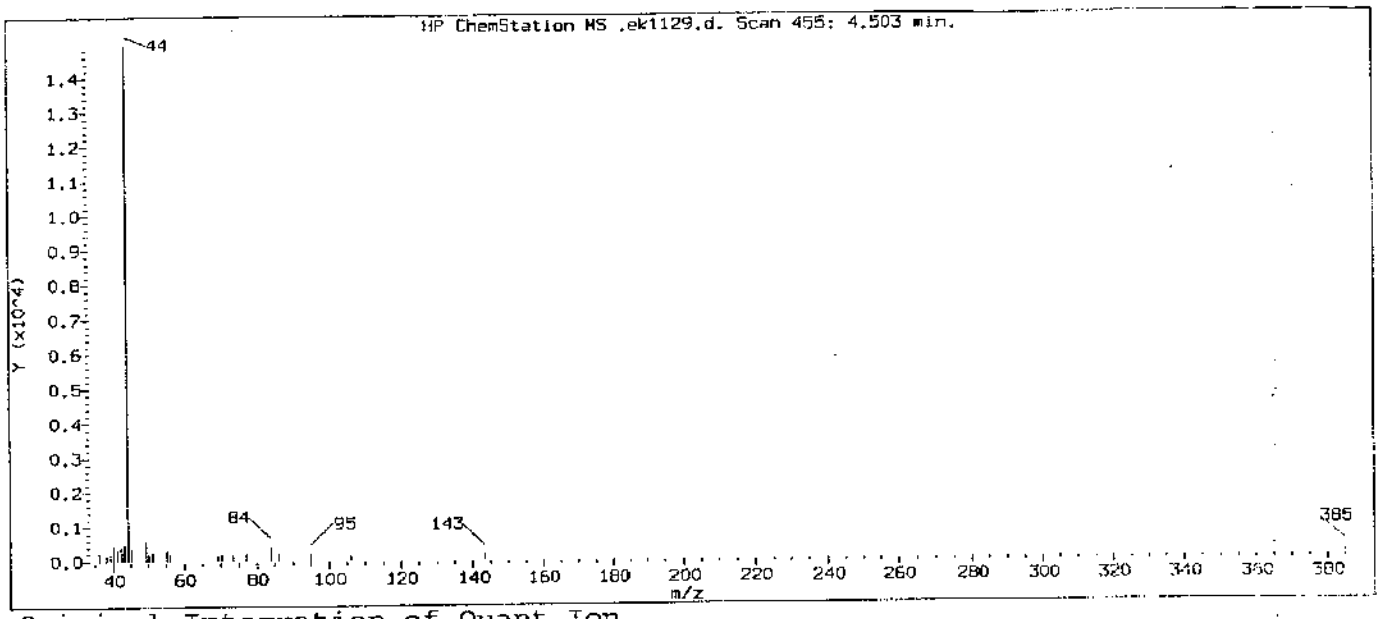
PCH09 8768

NOV 25 2011

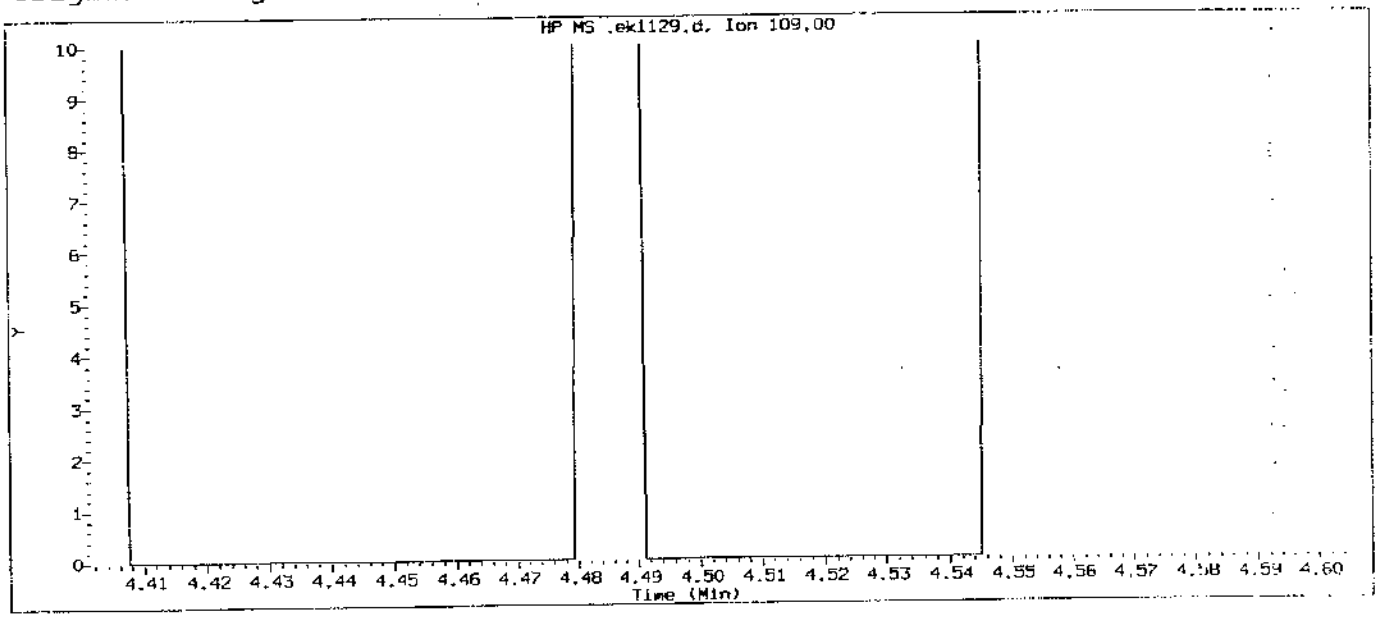
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

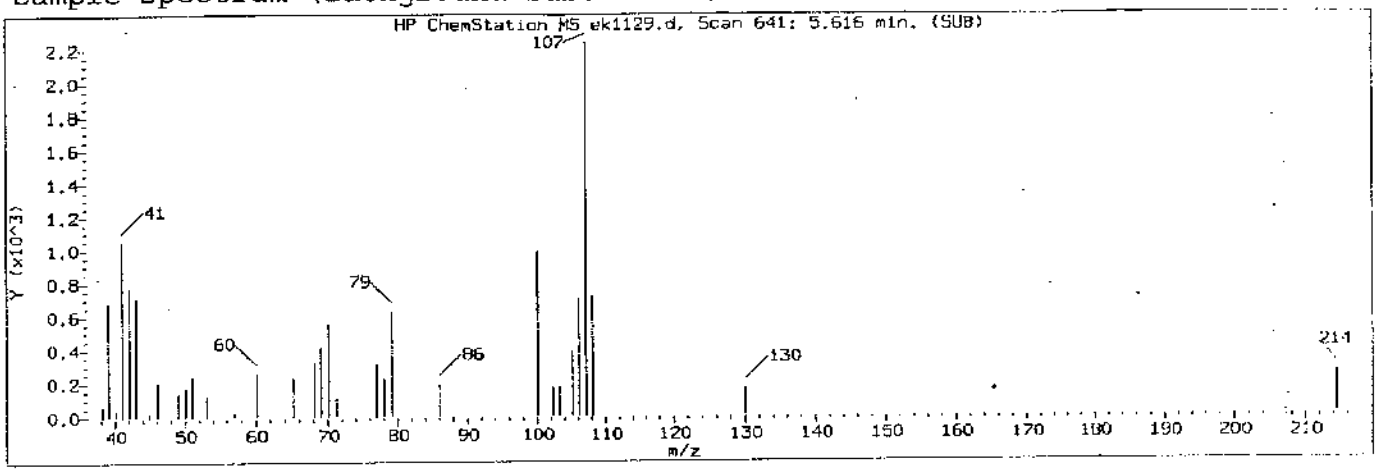
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

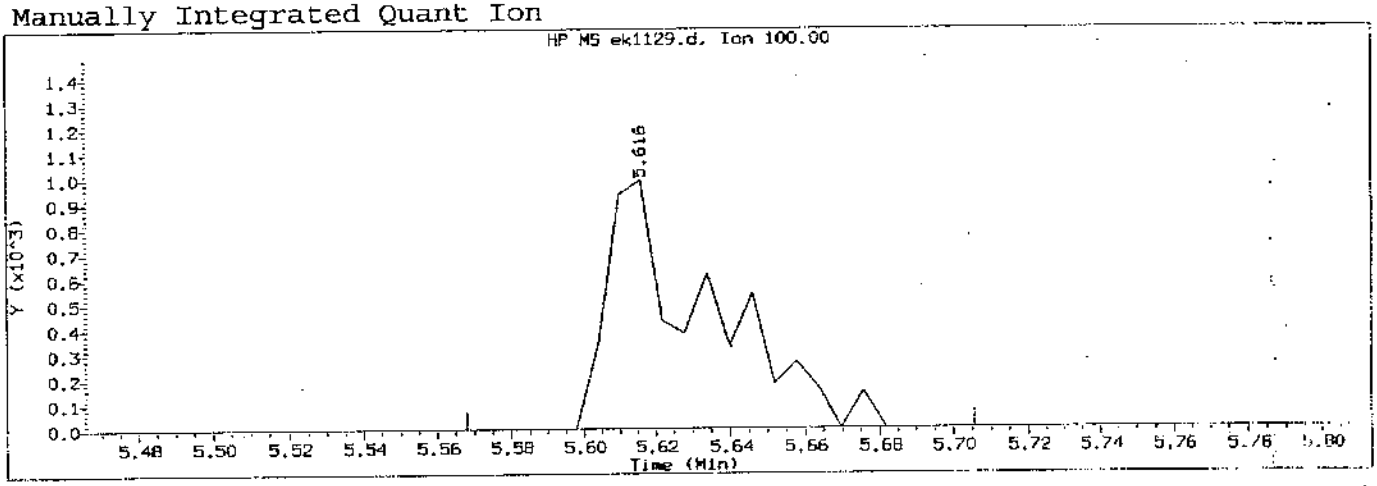
Compound Number : 11
Compound Name : Ethyl methanesulfonate
Expected RT (minutes) : 4.503
Quant Ion : 109

PCH89 2761

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 29
Compound Name : N-Nitrosopyrrolidine
Scan Number : 641
Retention Time (minutes): 5.616
Quant Ion : 100
Area (flag) : 1909 M
Concentration (ng/ul) : 0.4060
Integration start scan : 632 Integration stop scan: 655
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: New Jer ehsl

GC/MS audit/management approval: Matthew E Barton

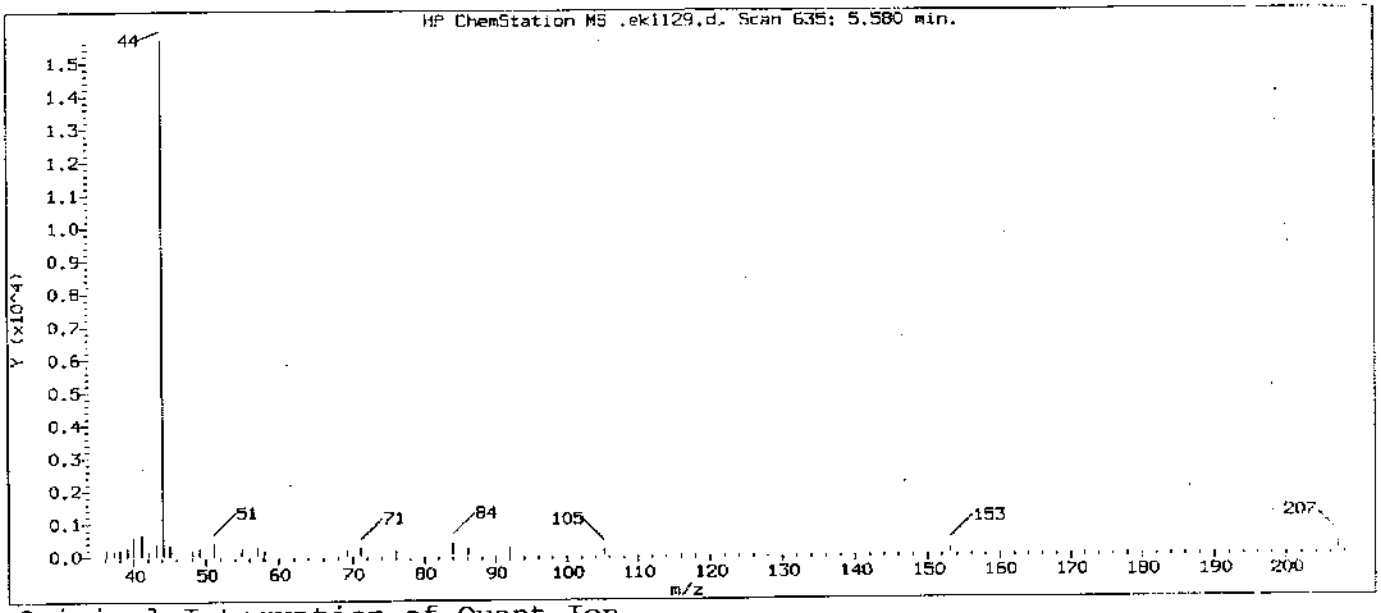
PCH89 8762

NOV 25 2011

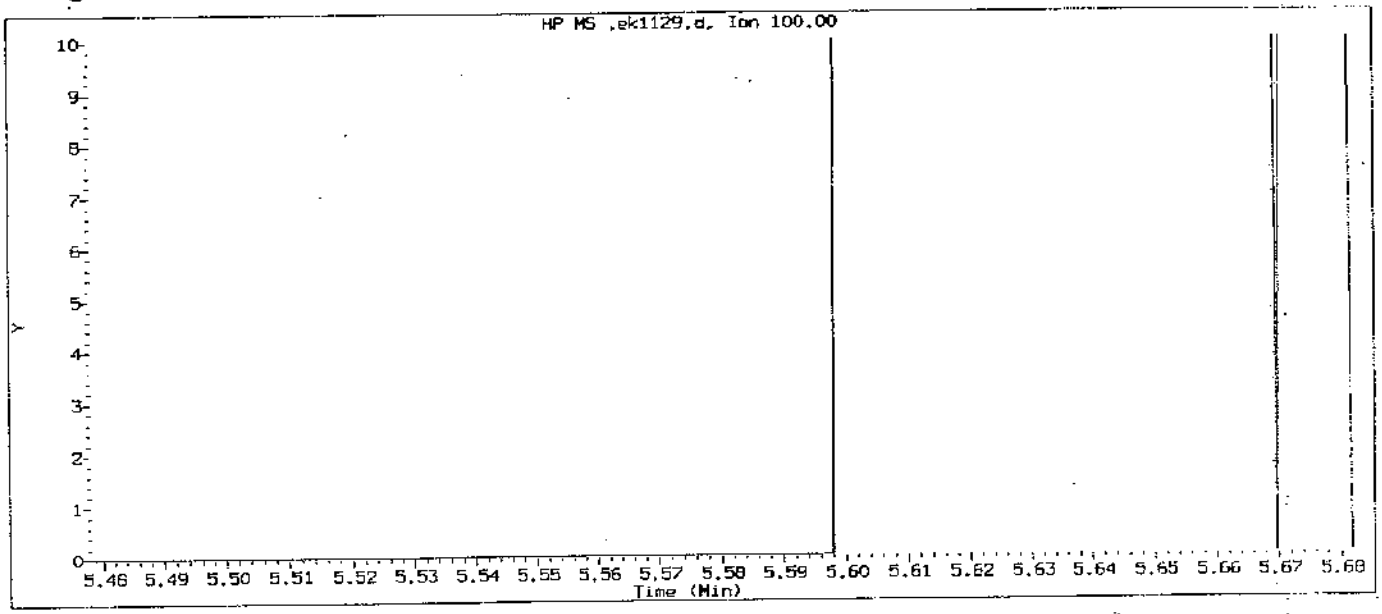
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

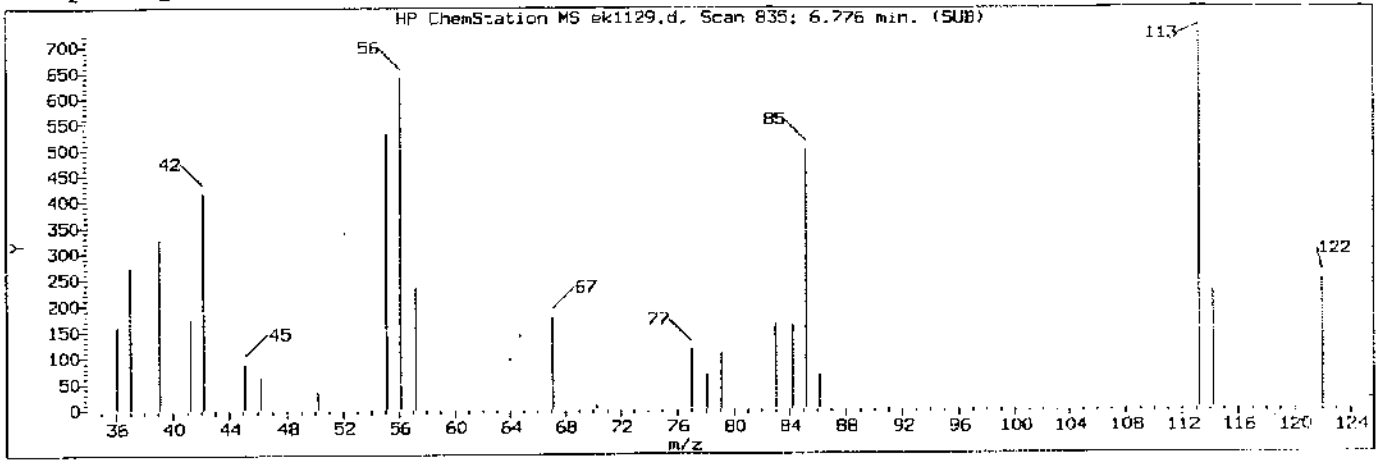
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

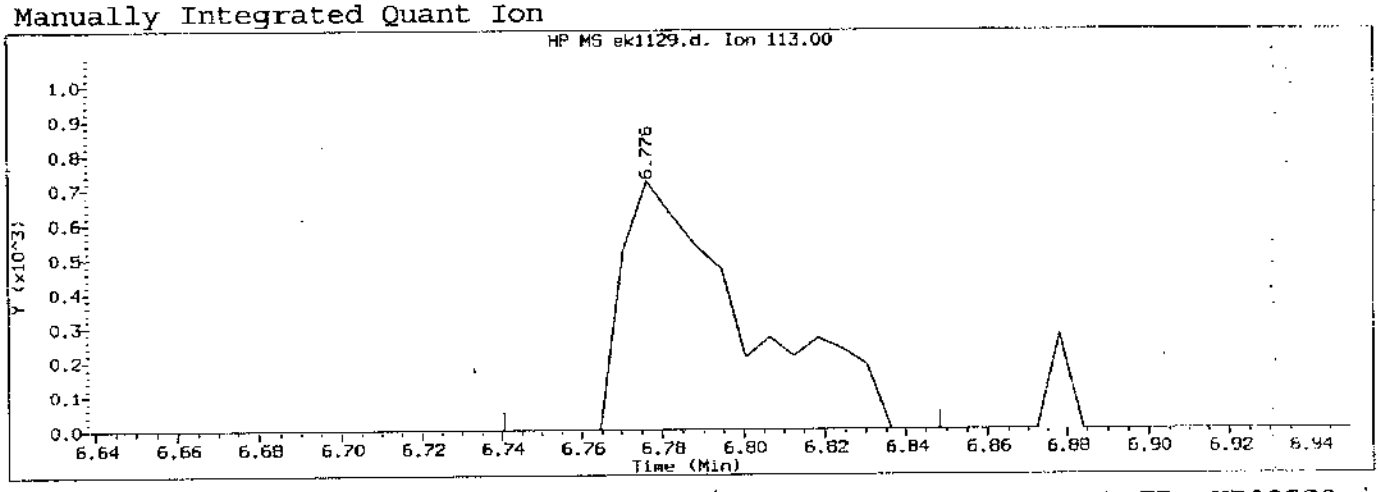
Compound Number : 29
Compound Name : N-Nitrosopyrrolidine
Expected RT (minutes) : 5.580
Quant Ion : 100

PCH89 8763

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 63
Compound Name : Caprolactam
Scan Number : 835
Retention Time (minutes): 6.776
Quant Ion : 113
Area (flag) : 1522 M
Concentration (ng/ul) : 0.4629
Integration start scan : 828 Integration stop scan: 846
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: new jrr analyst

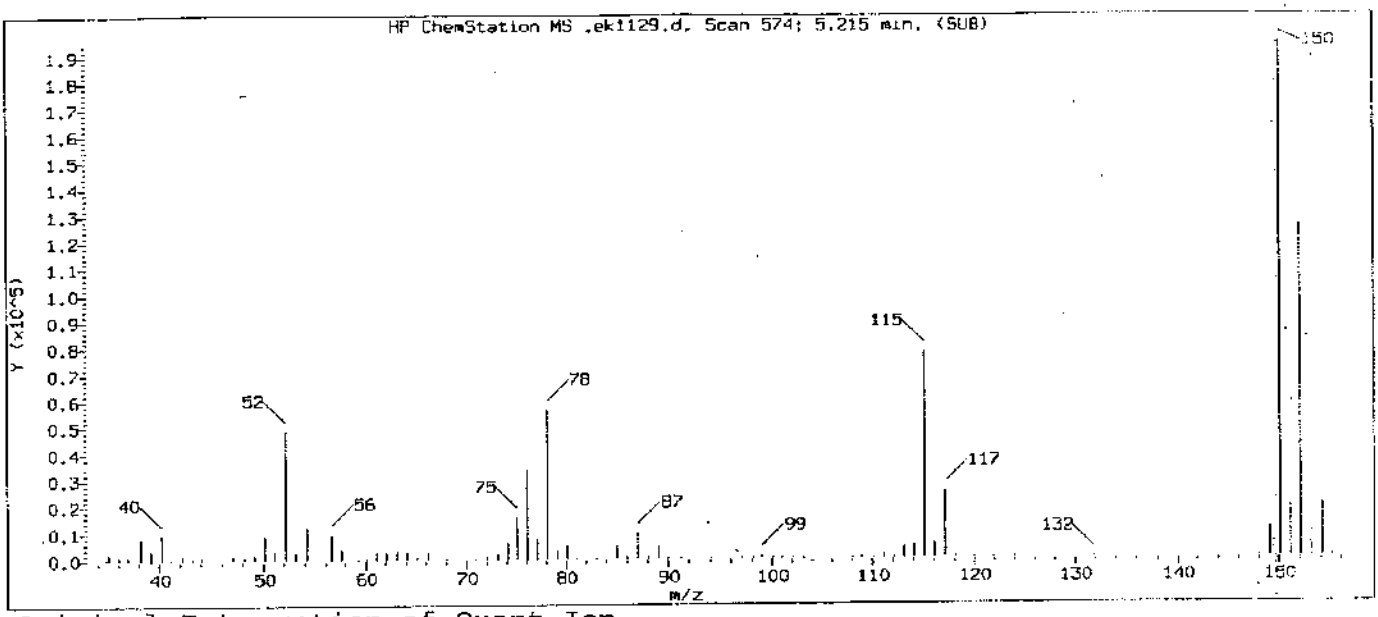
GC/MS audit/management approval: PCH69 8764

NOV 25 2011

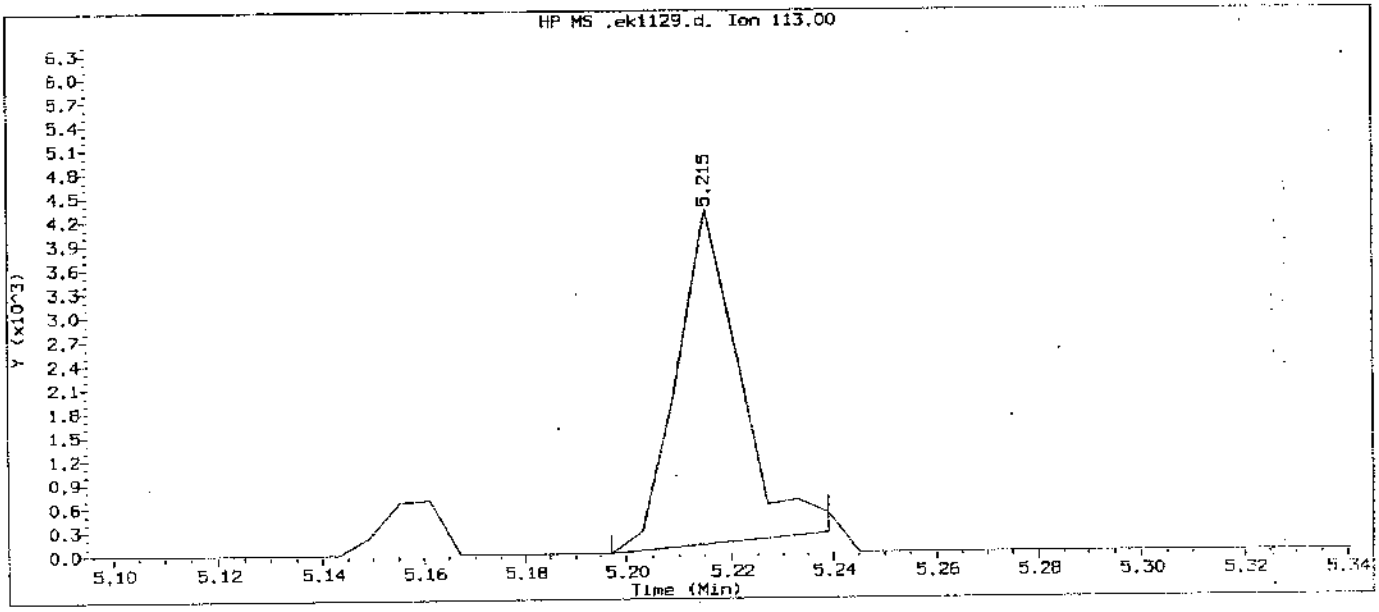
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

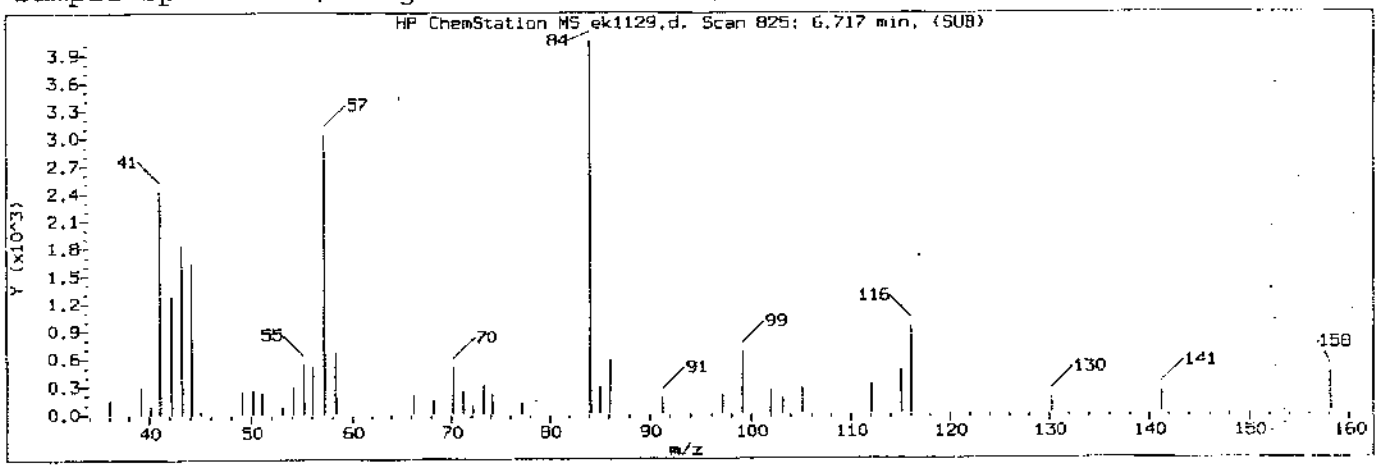
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 63
Compound Name : Caprolactam
Scan Number : 574
Retention Time (minutes): 5.215
Quant Ion : 113
Area : 3504
Concentration (ng/ul) : 1.0658
Integration start scan : 570 Integration stop scan: 577
Y at integration start : 0 Y at integration end: 248

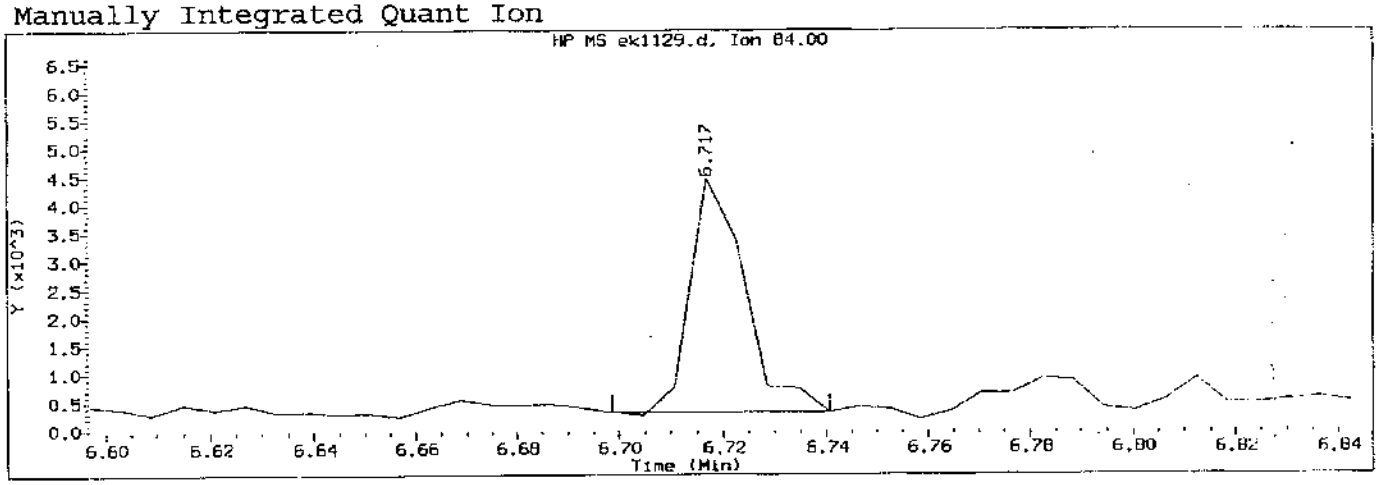
PCH09 8765

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlalll
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 64
Compound Name : N-Nitrosodi-n-butylamine
Scan Number : 825
Retention Time (minutes): 6.717
Quant Ion : 84
Area (flag) : 3043 M
Concentration (ng/ul) : 0.0000
Integration start scan : 821 Integration stop scan: 828
Y at integration start : 302 Y at integration end: 302

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: Nov 2011 11/23/11

GC/MS audit/management approval: Matthew E. Barton

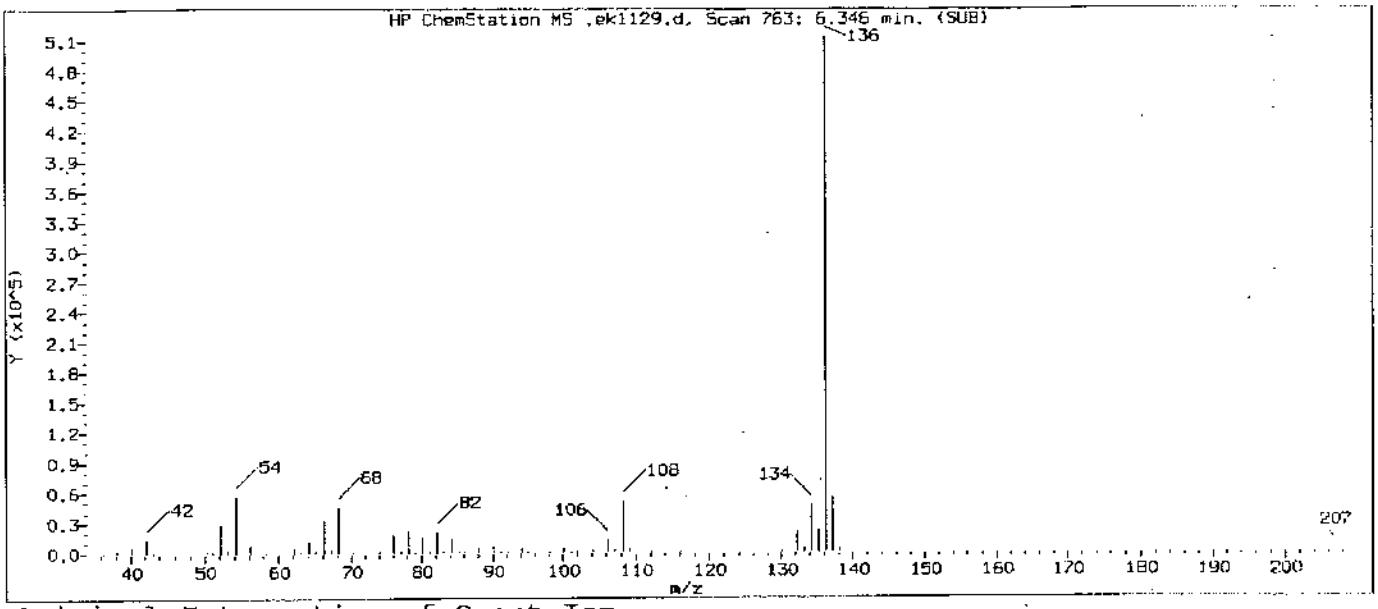
PCH89 8766

NOV 25 2011

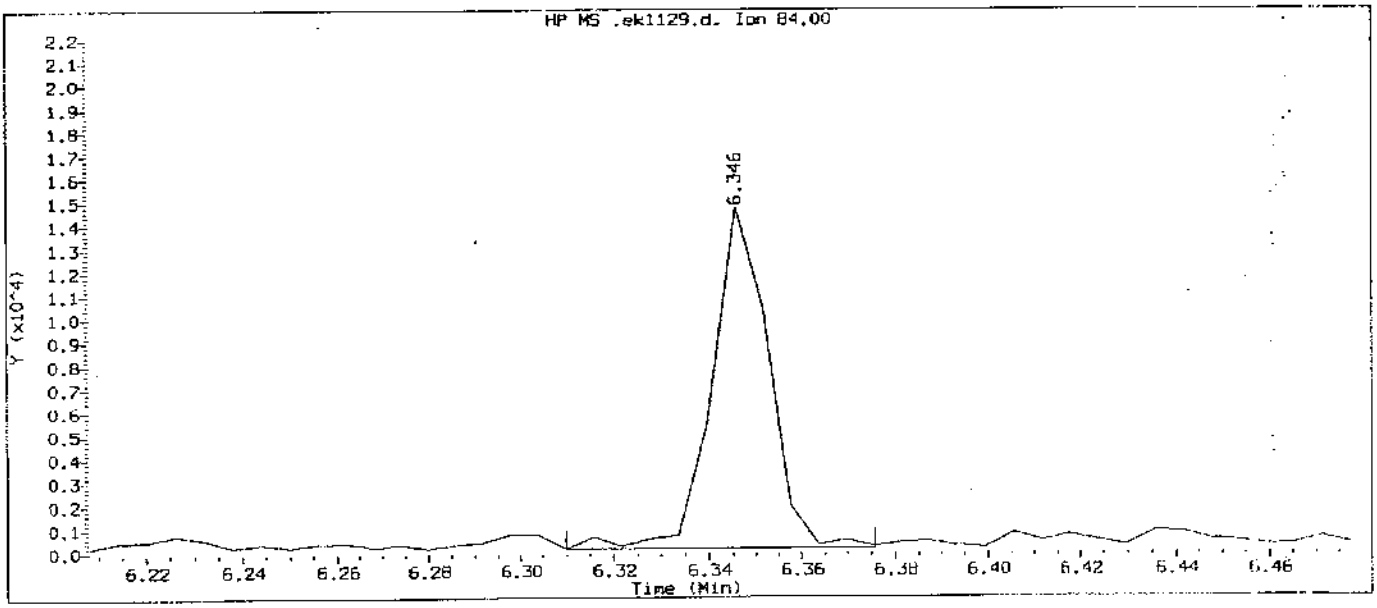
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

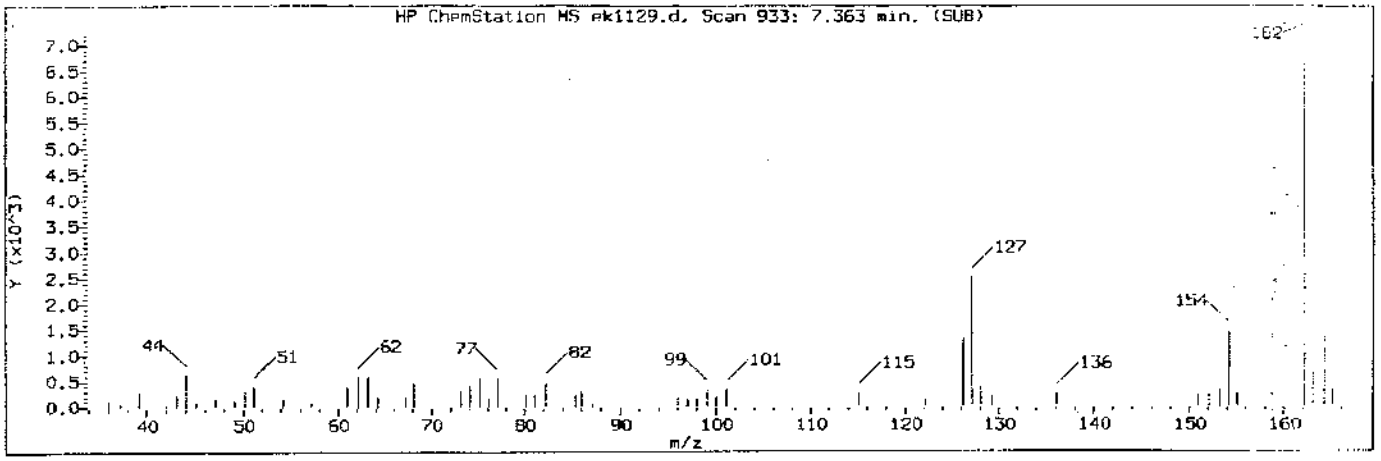
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 64
Compound Name	: N-Nitrosodi-n-butylamine
Scan Number	: 763
Retention Time (minutes)	: 6.346
Quant Ion	: 84
Area	: 12199
Concentration (ng/ul)	: 0.1462
Integration start scan	: 756 Integration stop scan: 767
Y at integration start	: 157 Y at integration end: 157

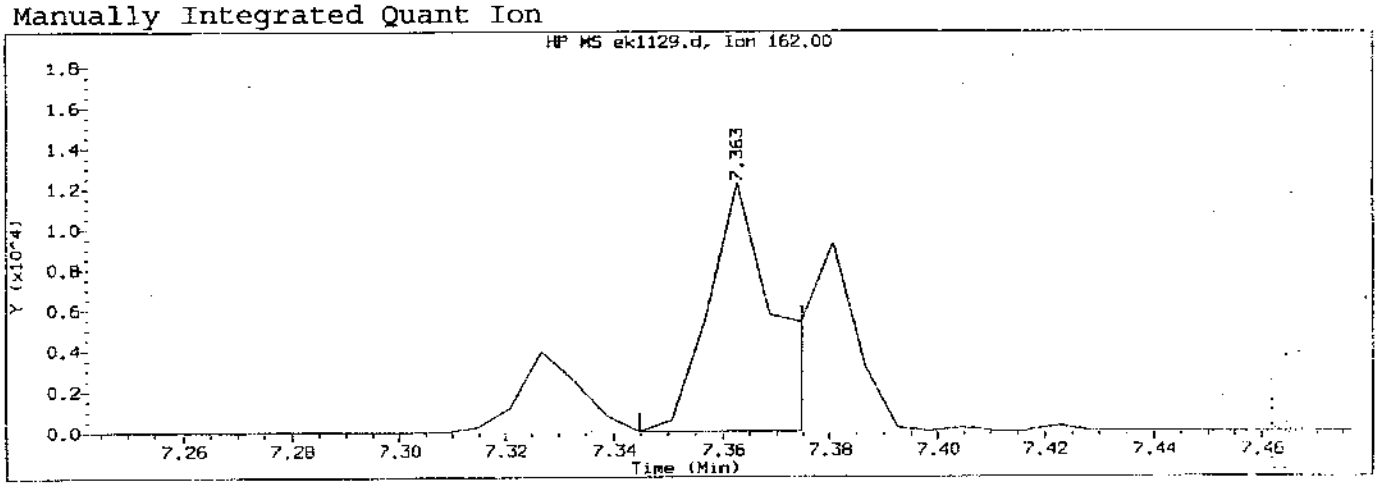
PCH09 0767

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 84
Compound Name : 2-Chloronaphthalene
Scan Number : 933
Retention Time (minutes): 7.363
Quant Ion : 162
Area (flag) : 10518 M
Concentration (ng/ul) : 0.6117
Integration start scan : 929 Integration stop scan: 934
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Matthew Barton 11/23/11

GC/MS audit/management approval: Matthew E. Barton

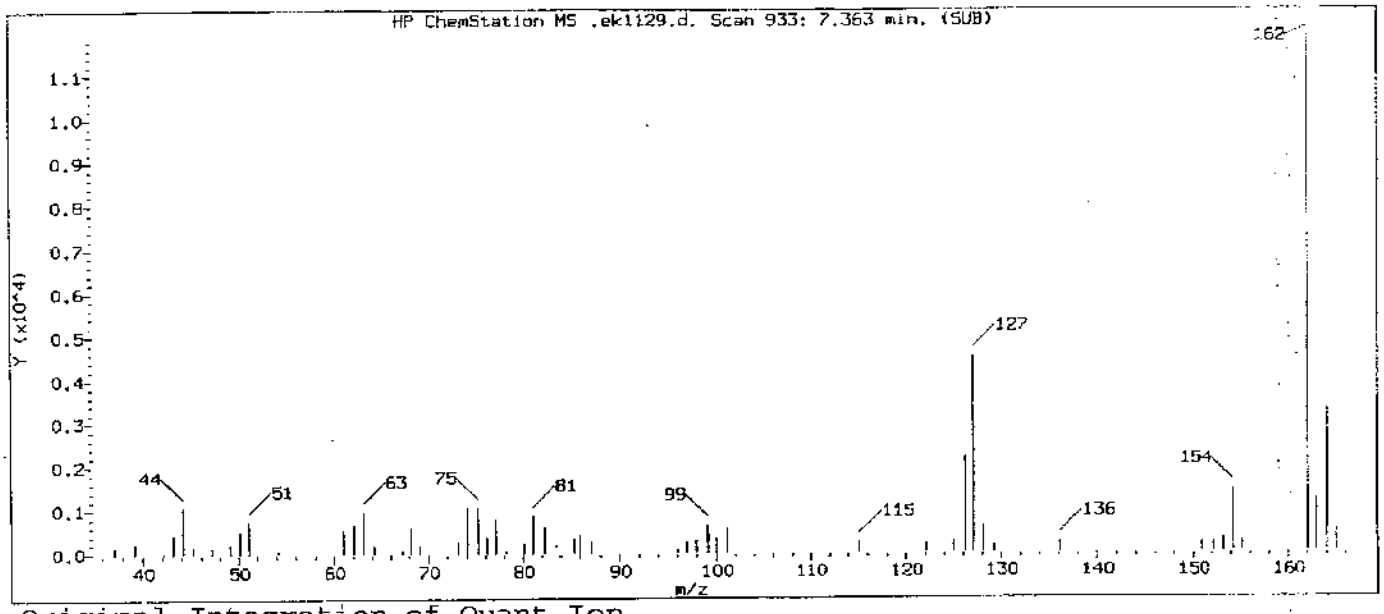
PCH09 6768

NOV 25 2011

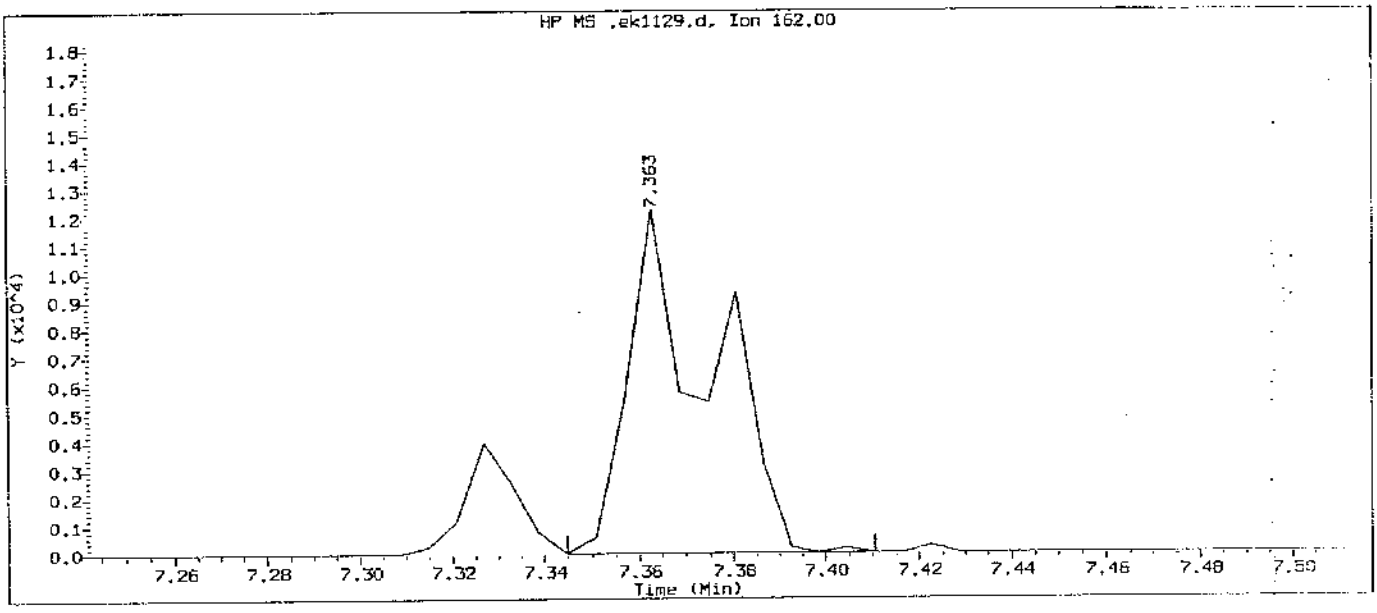
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

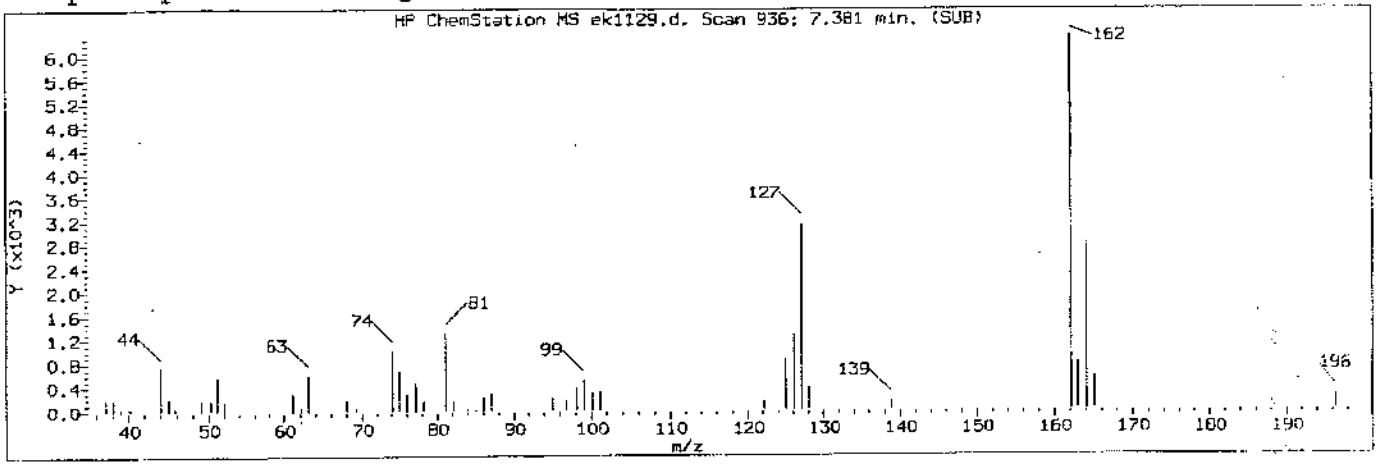
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 84
Compound Name : 2-Chloronaphthalene
Scan Number : 933
Retention Time (minutes): 7.363
Quant Ion : 162
Area : 15117
Concentration (ng/ul) : 0.8792
Integration start scan : 929 Integration stop scan: 940
Y at integration start : 0 Y at integration end: 0

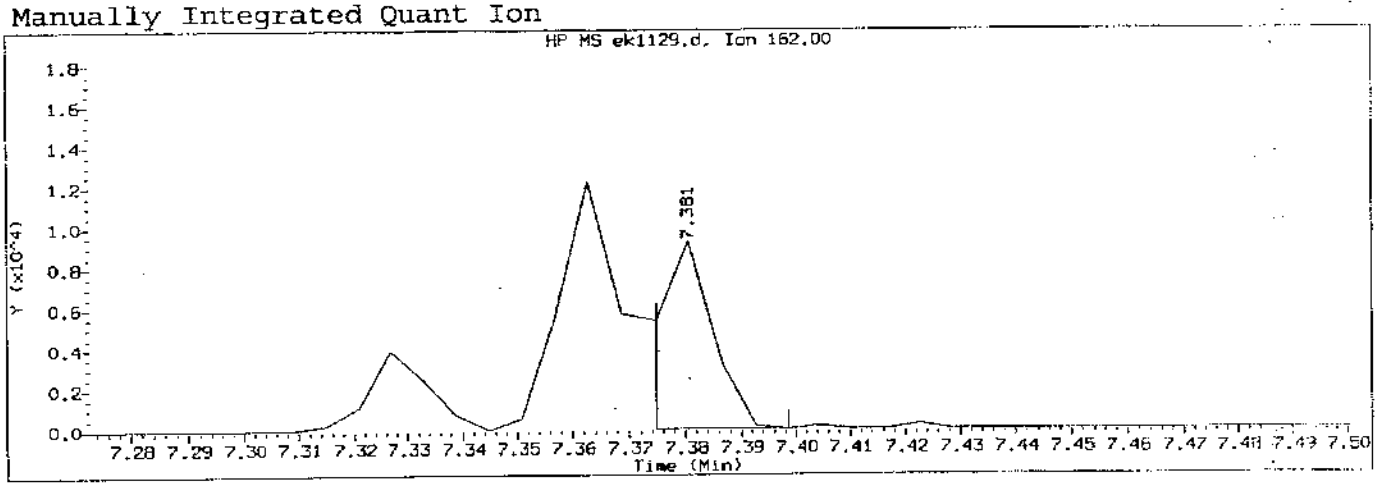
PCH89 8769

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	:	85
Compound Name	:	1-Chloronaphthalene
Scan Number	:	936
Retention Time (minutes)	:	7.381
Quant Ion	:	162
Area (flag)	:	6432 M
Concentration (ng/ul)	:	0.4446
Integration start scan	:	934 Integration stop scan: 938
Y at integration start	:	21 Y at integration end: 21

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: Matthew Barton

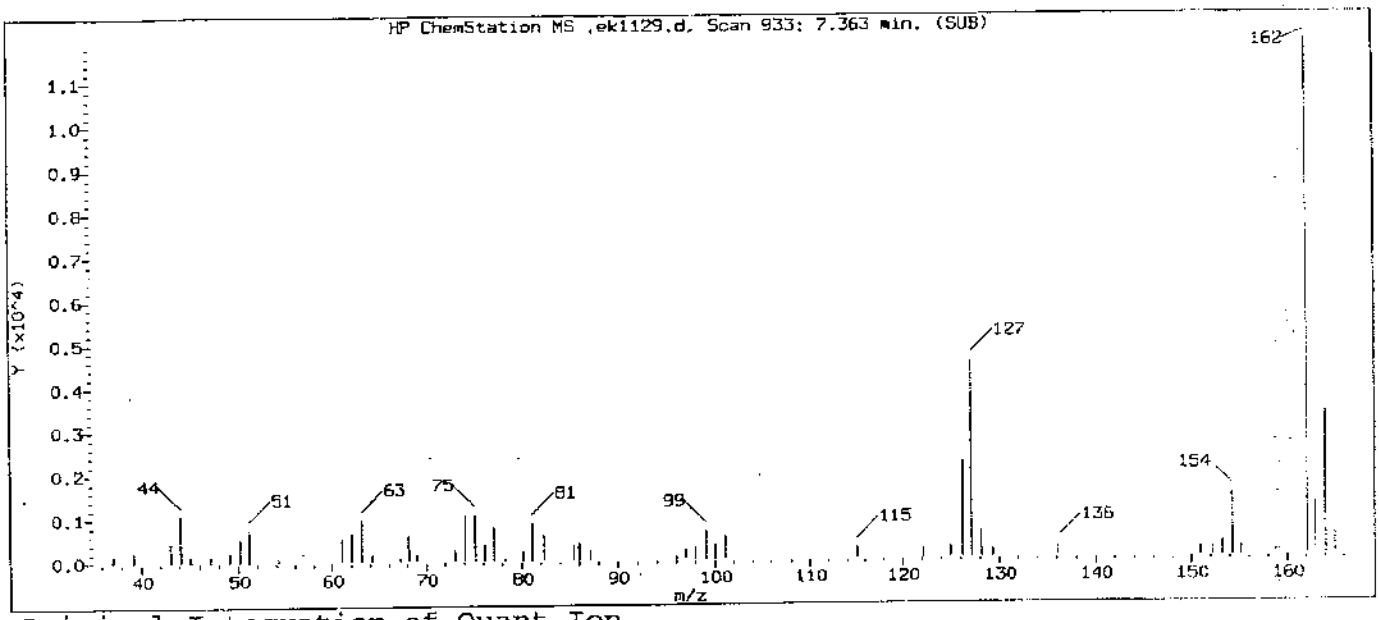
GC/MS audit/management approval: Matthew E. Barton PCH09 8770

NOV 25 2011

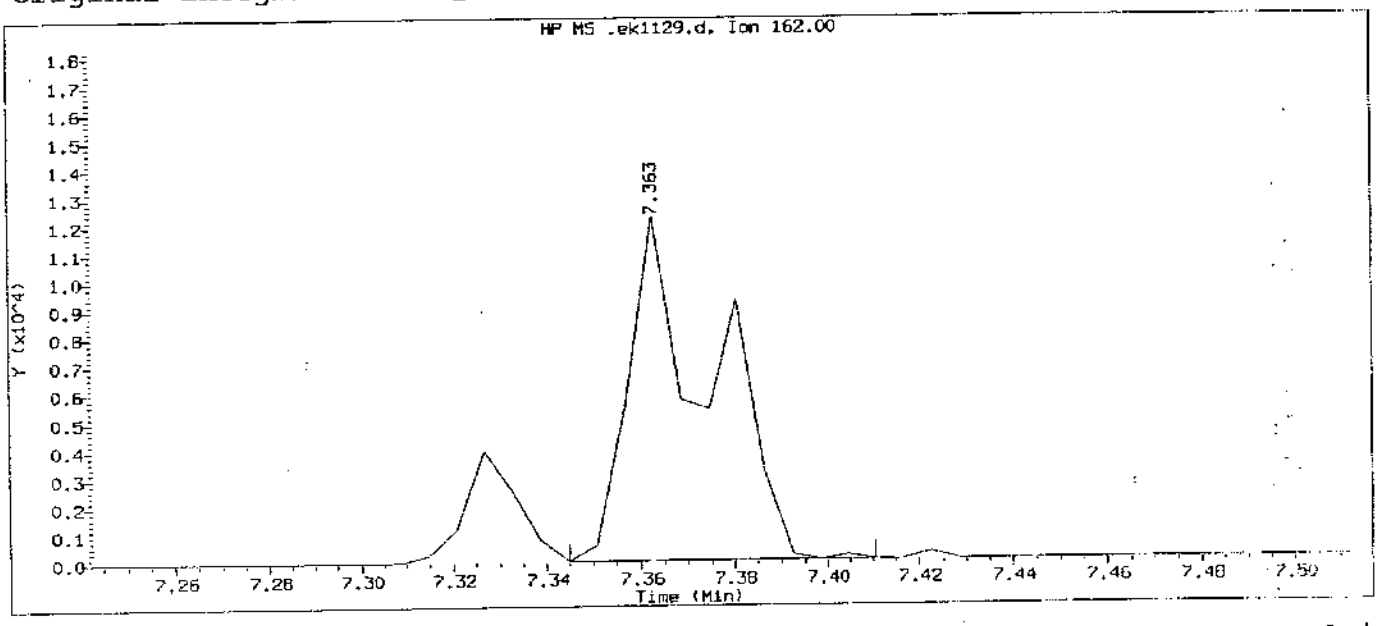
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

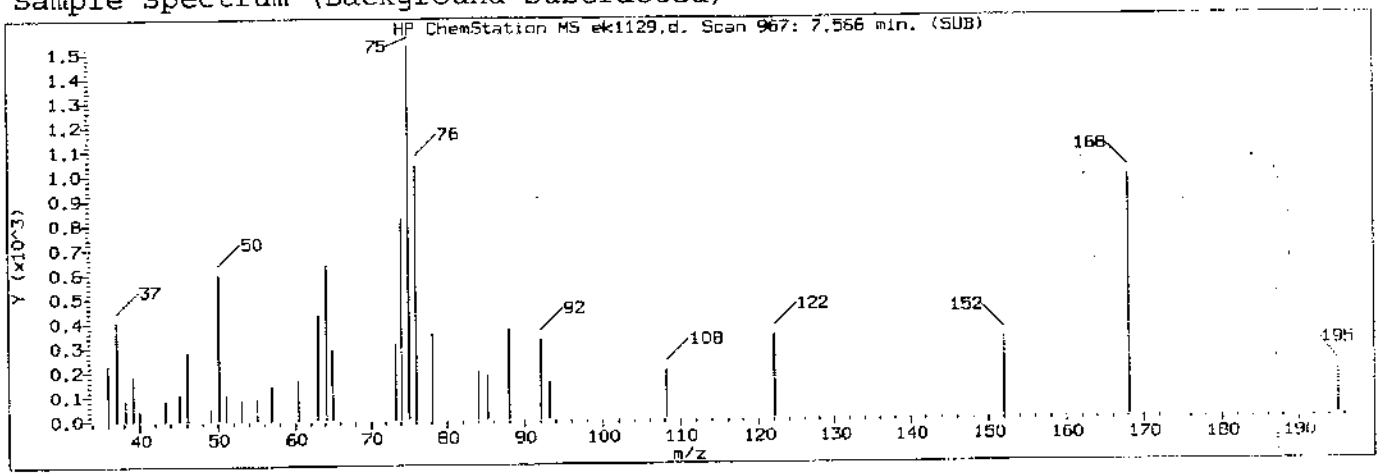
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 85
Compound Name	: 1-Chloronaphthalene
Scan Number	: 933
Retention Time (minutes)	: 7.363
Quant Ion	: 162
Area	: 15117
Concentration (ng/ul)	: 1.0450
Integration start scan	: 929 Integration stop scan: 940
Y at integration start	: 0 Y at integration end: 0

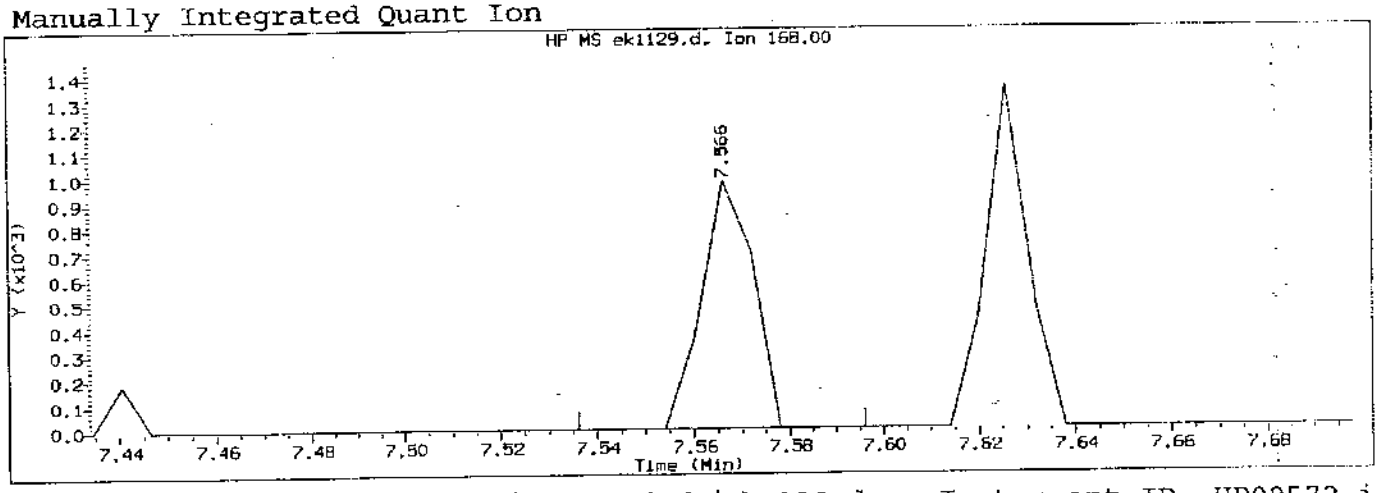
PCH09 6721

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 91
Compound Name : 1,4-Dinitrobenzene
Scan Number : 967
Retention Time (minutes): 7.566
Quant Ion : 168
Area (flag) : 732 M
Concentration (ng/ul) : 0.2724
Integration start scan : 961 Integration stop scan: 971
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: Matthew Barton 11/23/11

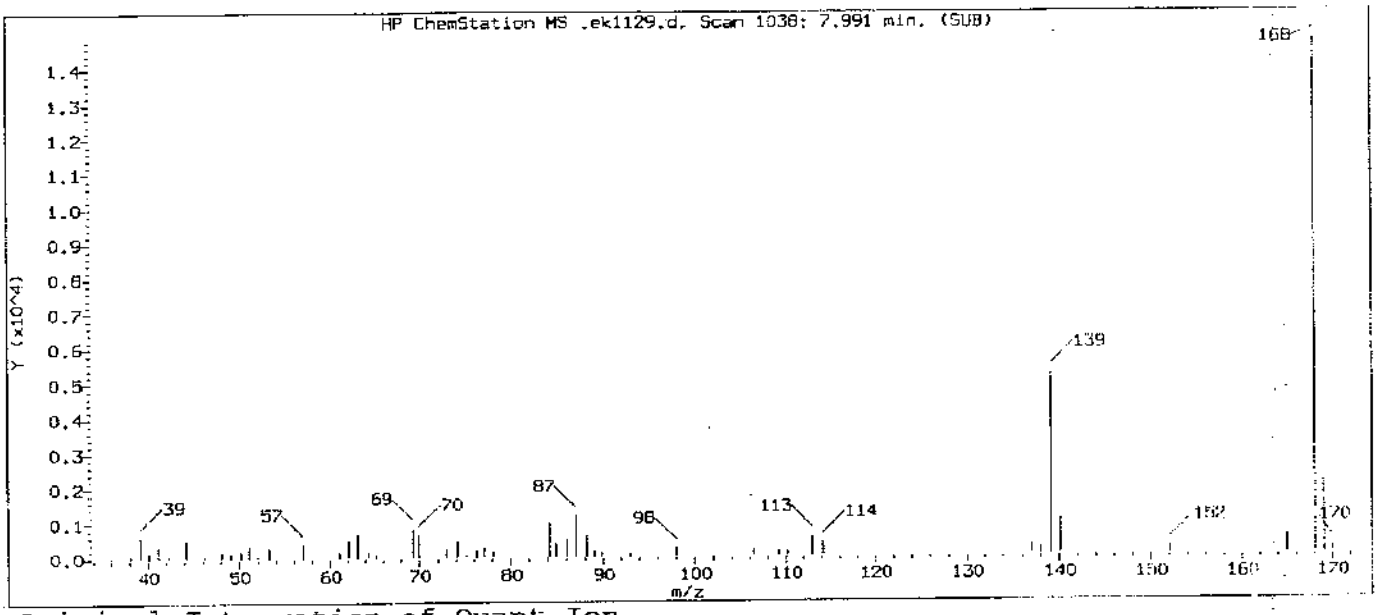
GC/MS audit/management approval: Matthew E Barton PCH09 #772

NOV 25 2011

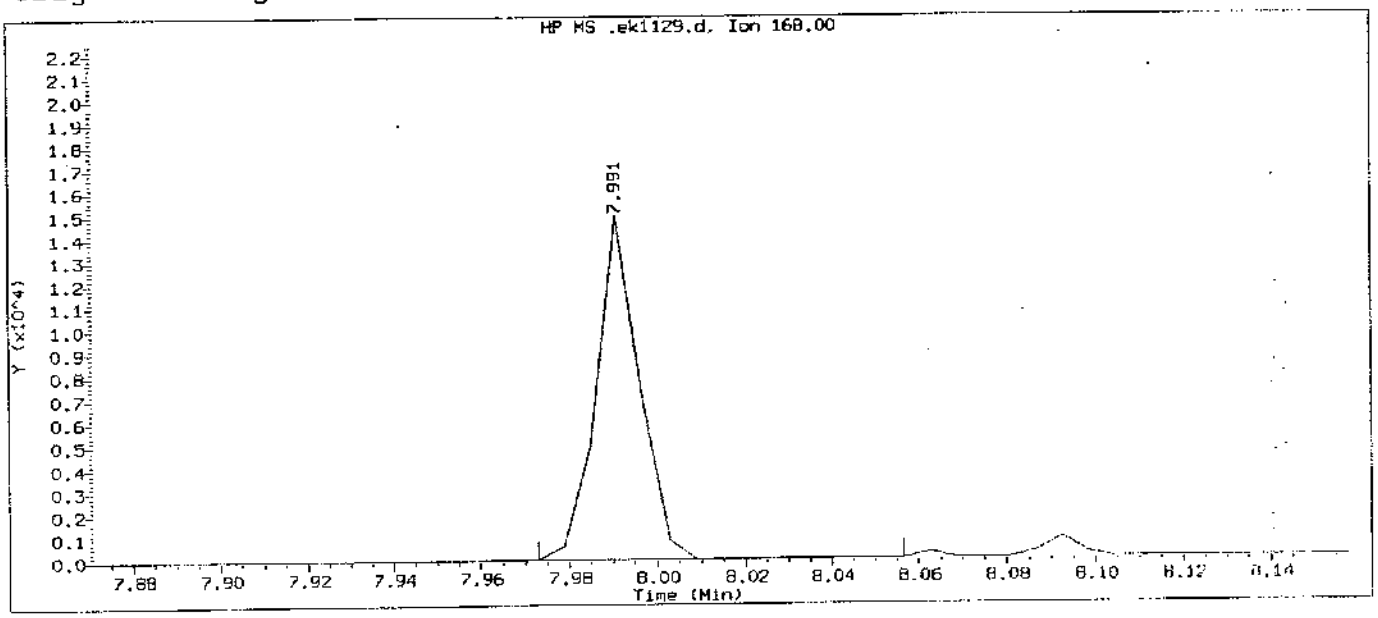
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

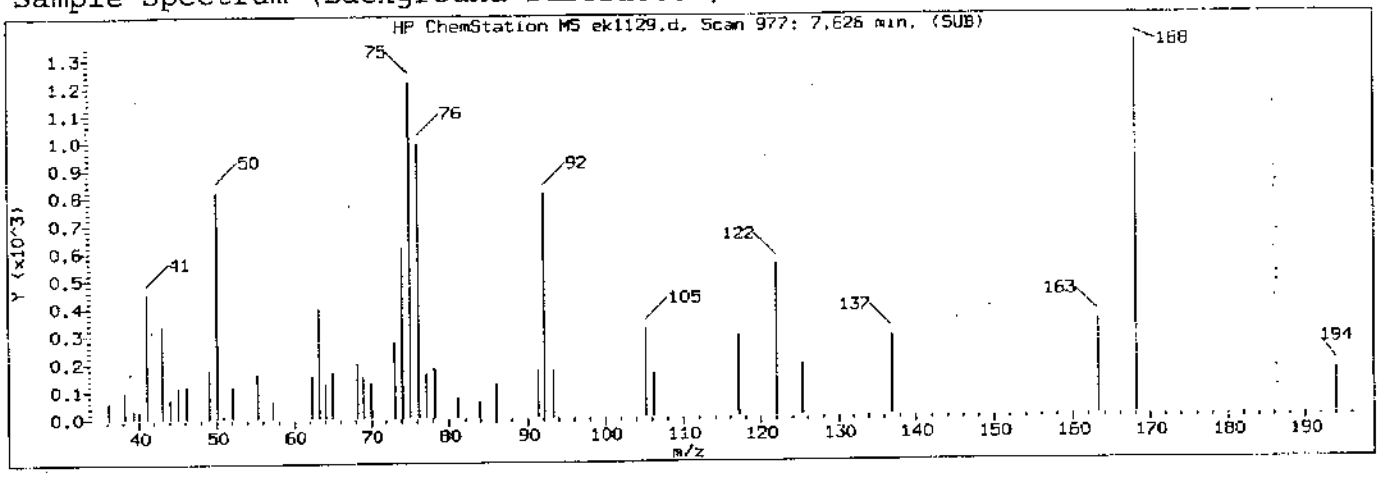
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	:	91
Compound Name	:	1,4-Dinitrobenzene
Scan Number	:	1038
Retention Time (minutes)	:	7.991
Quant Ion	:	168
Area	:	10200
Concentration (ng/ul)	:	3.7929
Integration start scan	:	1034 Integration stop scan: 1048
Y at integration start	:	0 Y at integration end: 0

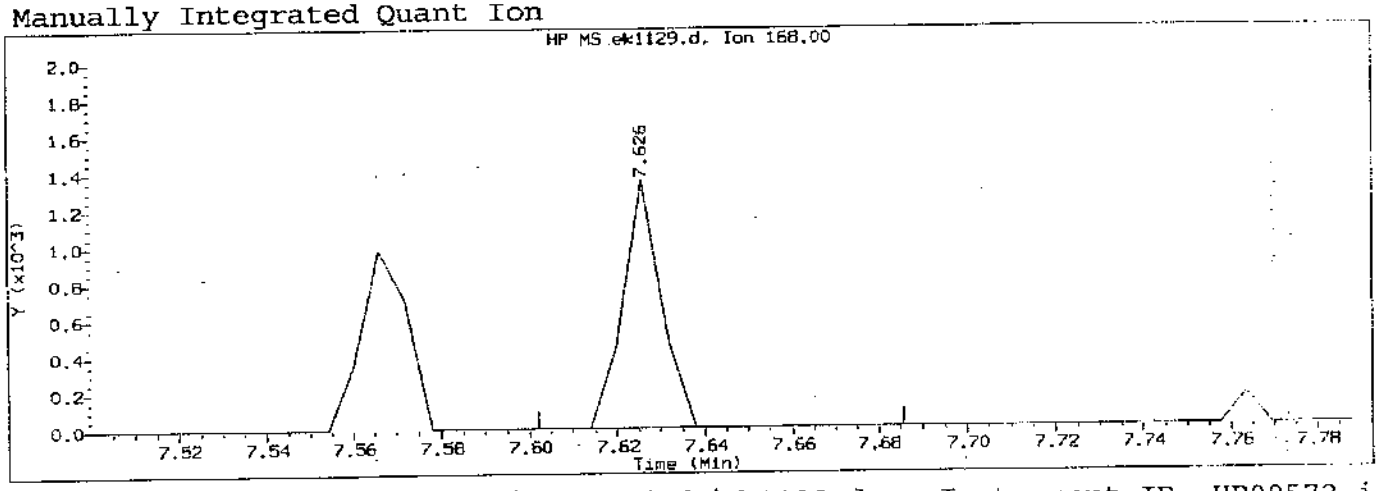
PCH89 8773

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	:	93
Compound Name	:	1,3-Dinitrobenzene
Scan Number	:	977
Retention Time (minutes)	:	7.626
Quant Ion	:	168
Area (flag)	:	811 M
Concentration (ng/ul)	:	0.2572
Integration start scan	:	972 Integration stop scan: 986
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 11/23/11

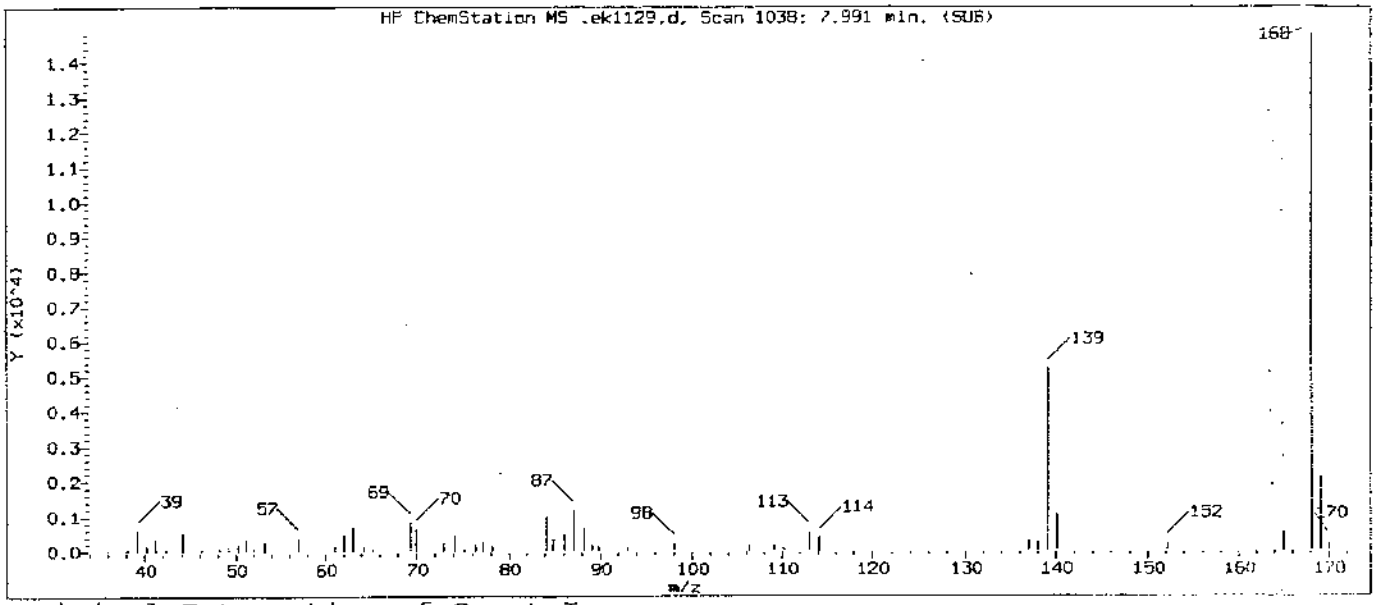
GC/MS audit/management approval: [signature] PCH89 0774

NOV 25 2011

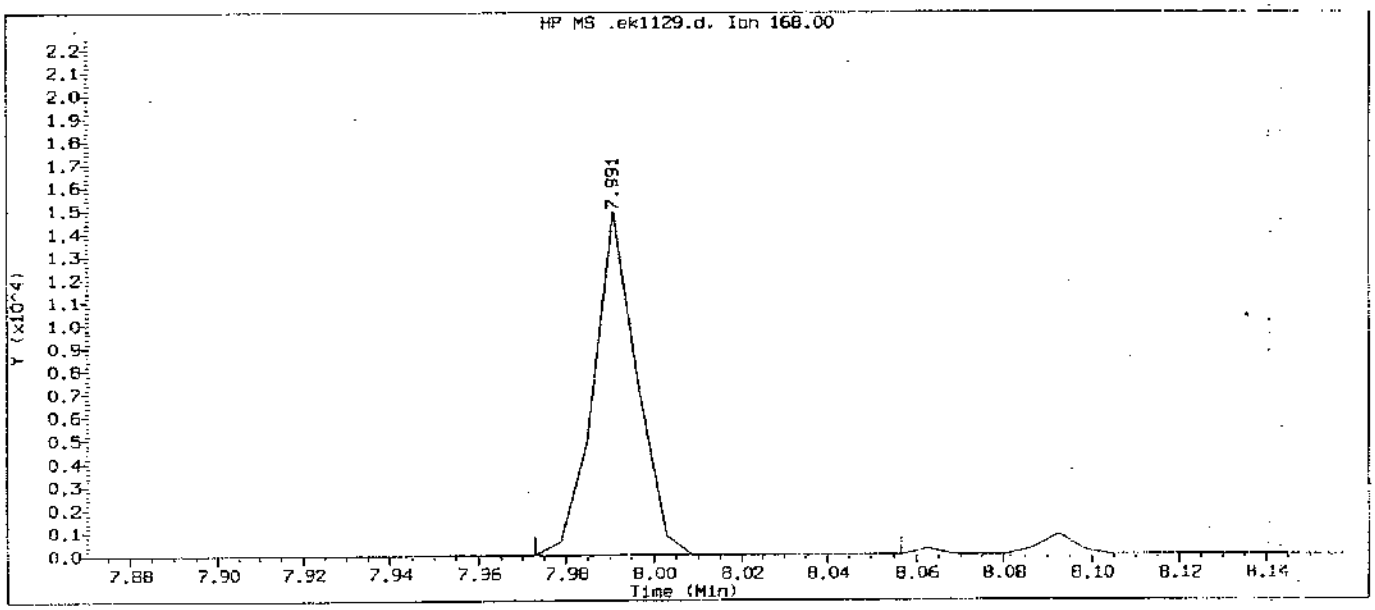
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

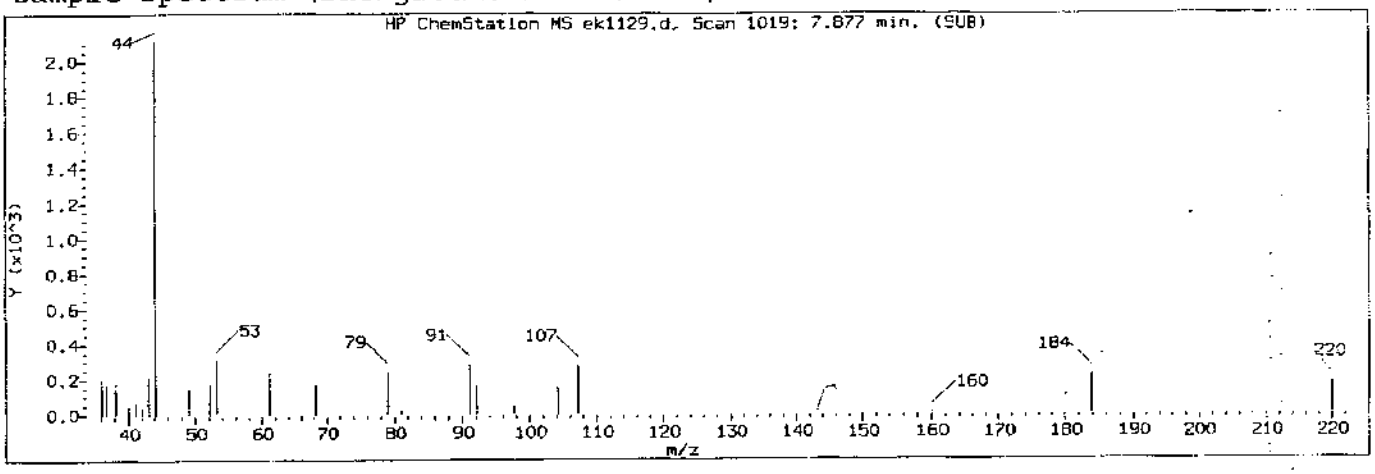
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 93
Compound Name	: 1,3-Dinitrobenzene
Scan Number	: 1038
Retention Time (minutes)	: 7.991
Quant Ion	: 168
Area	: 10200
Concentration (ng/ul)	: 3.2343
Integration start scan	: 1034 Integration stop scan: 1048
Y at integration start	: 0 Y at integration end: 0

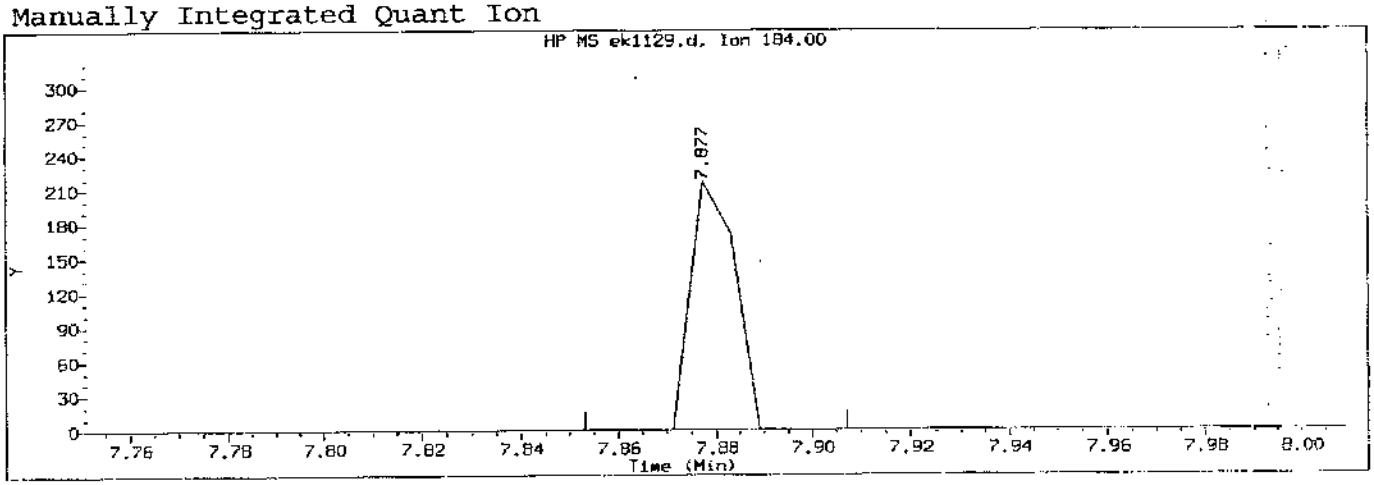
PCN89 8775

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 100
Compound Name	: 2,4-Dinitrophenol
Scan Number	: 1019
Retention Time (minutes)	: 7.877
Quant Ion	: 184
Area (flag)	: 139 M
Concentration (ng/ul)	: 0.0566
Integration start scan	: 1014 Integration stop scan: 1023
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: _____ 11/23/11

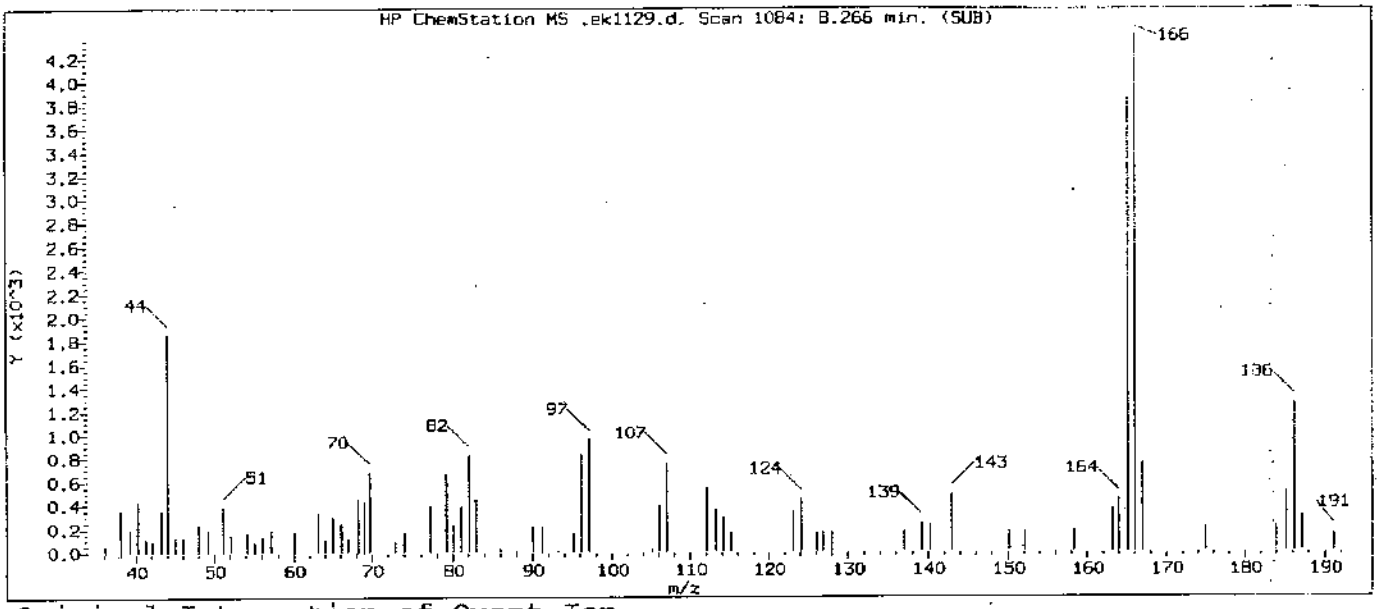
GC/MS audit/management approval: _____ PCH#9 8776

NOV 25 2011

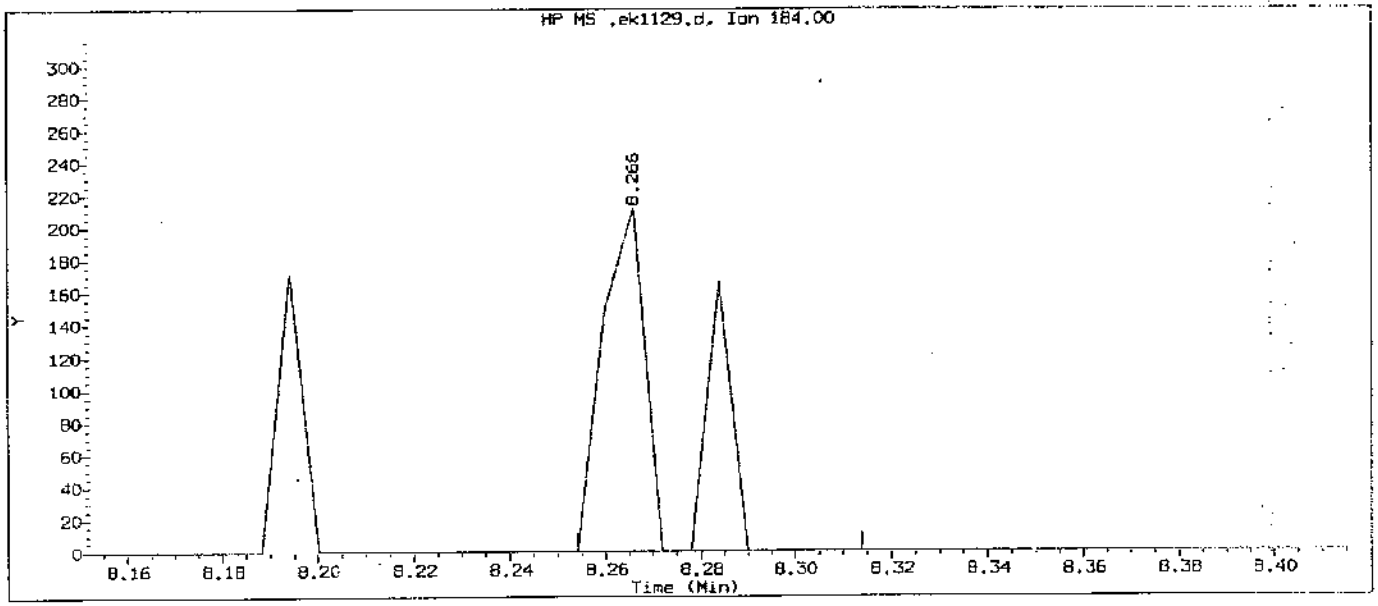
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

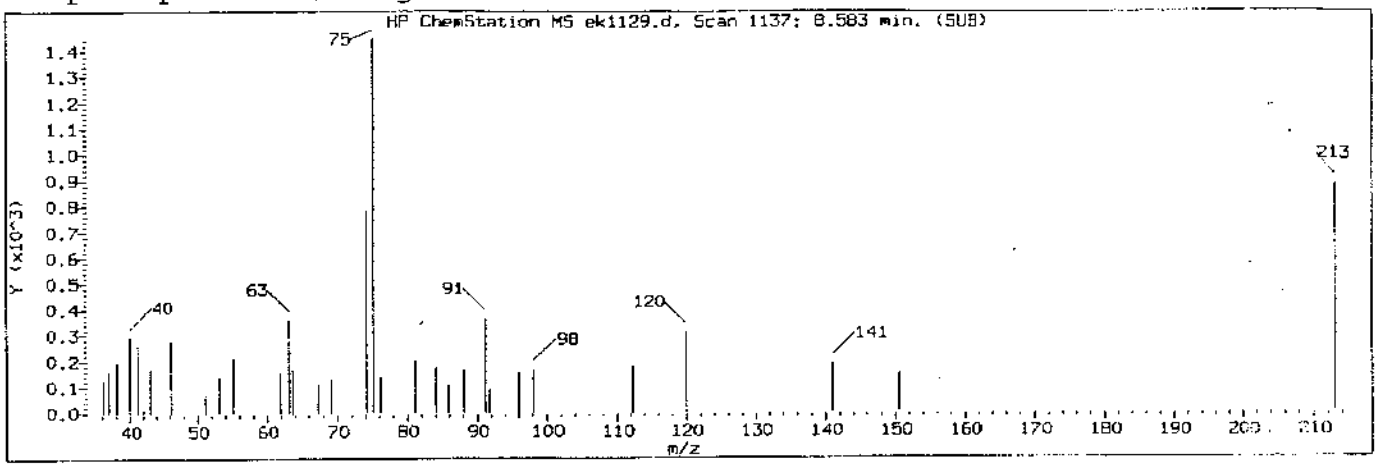
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 100
Compound Name : 2,4-Dinitrophenol
Scan Number : 1084
Retention Time (minutes): 8.266
Quant Ion : 184
Area : 189
Concentration (ng/ul) : 0.0771
Integration start scan : 1081 Integration stop scan: 1091
Y at integration start : 0 Y at integration end: 0

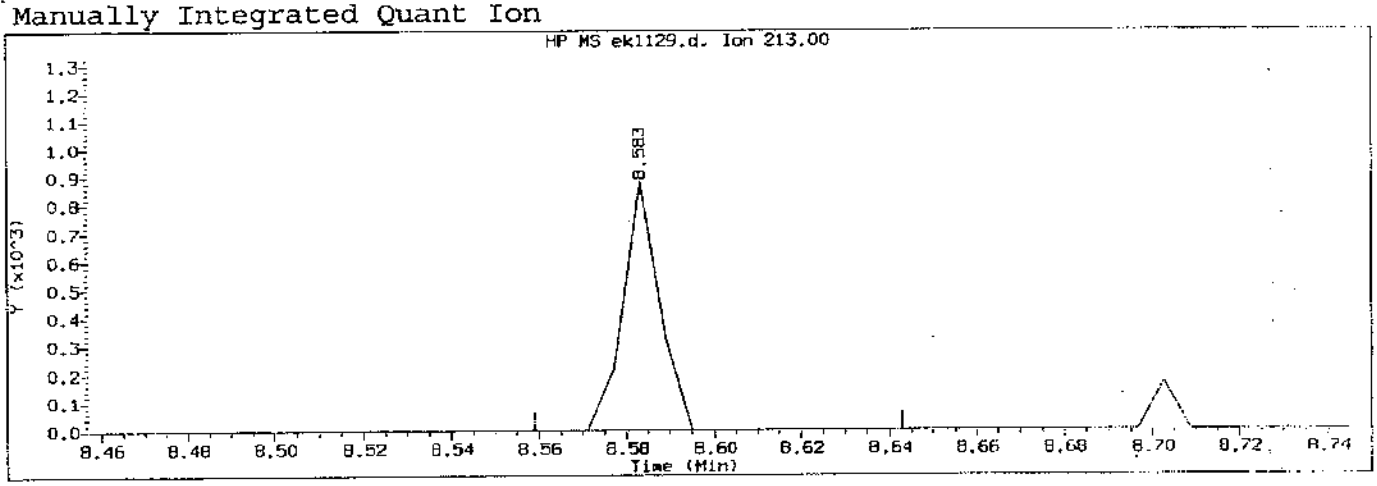
PCH89 8777

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 121
Compound Name	: 1,3,5-Trinitrobenzene
Scan Number	: 1137
Retention Time (minutes)	: 8.583
Quant Ion	: 213
Area (flag)	: 509 M
Concentration (ng/ul)	: 3.2706
Integration start scan	: 1132 Integration stop scan: 1146
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: NEB Lab 11/23/11

GC/MS audit/management approval: Matthew E. Barton

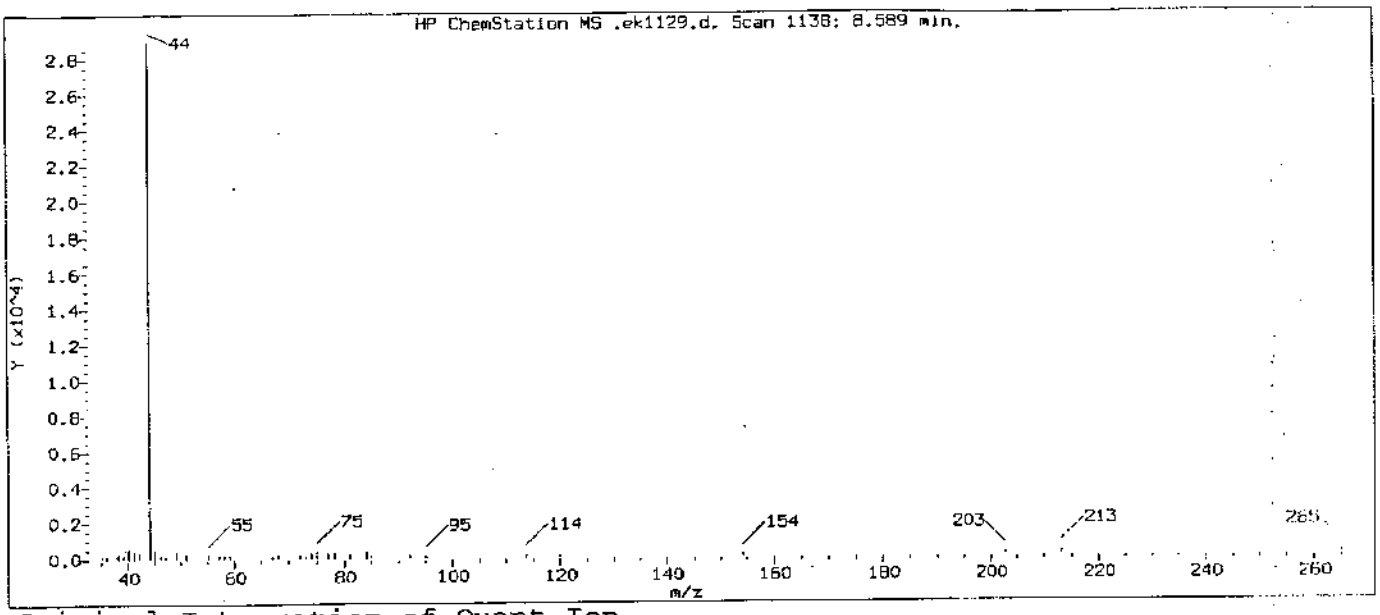
PCH89 6778

NOV 25 2011

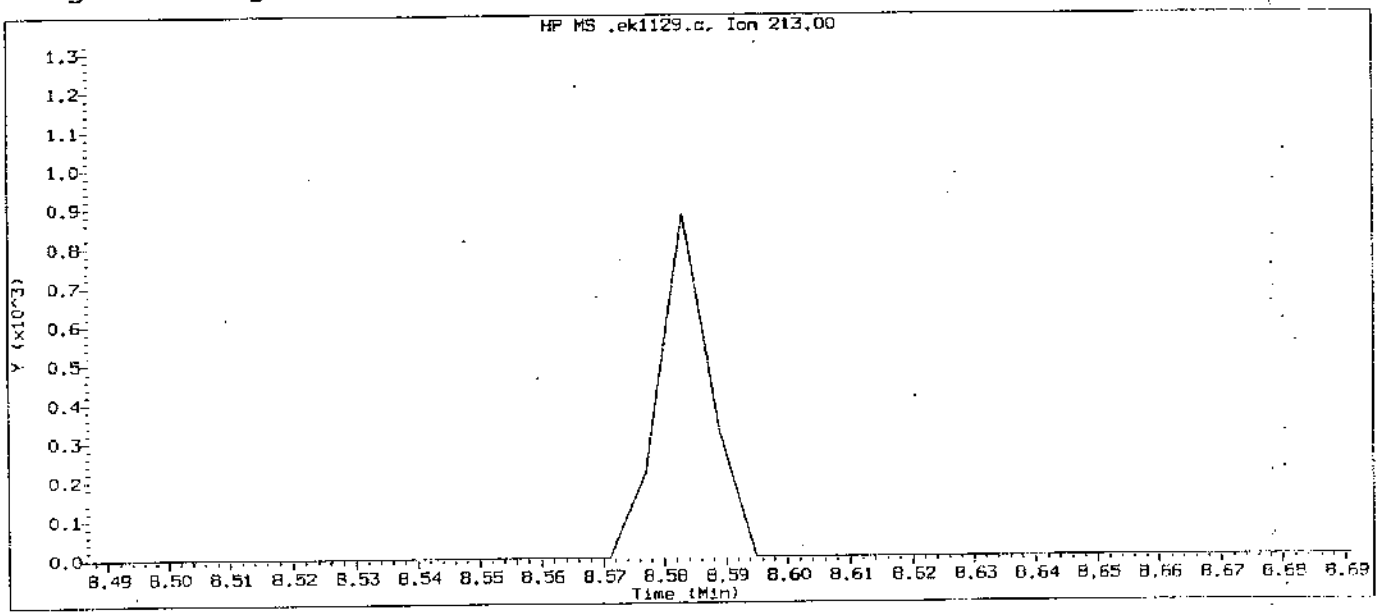
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

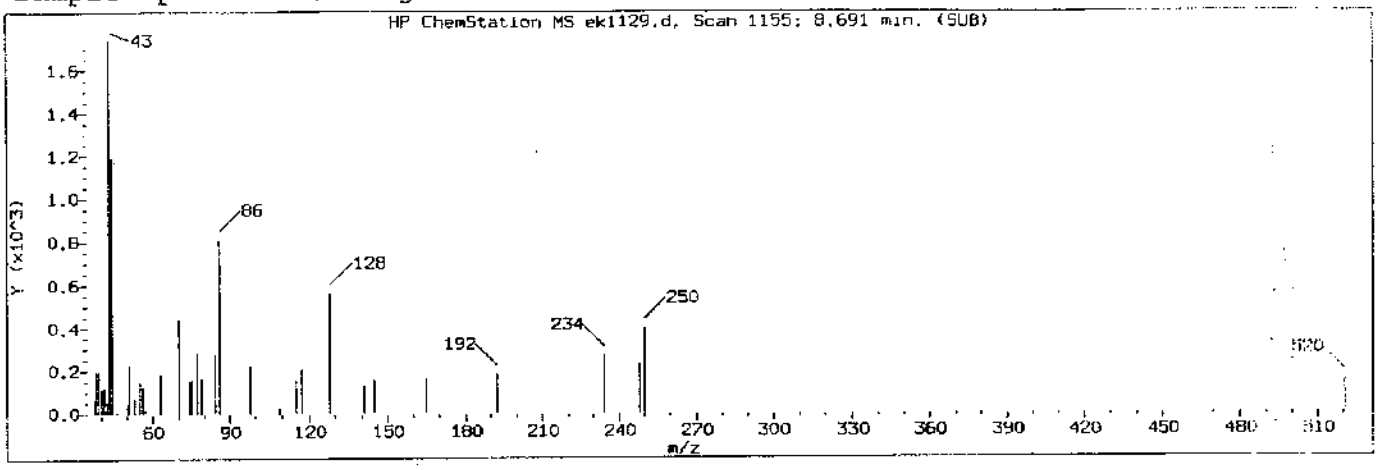
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 121
Compound Name : 1,3,5-Trinitrobenzene
Expected RT (minutes) : 8.589
Quant Ion : 213

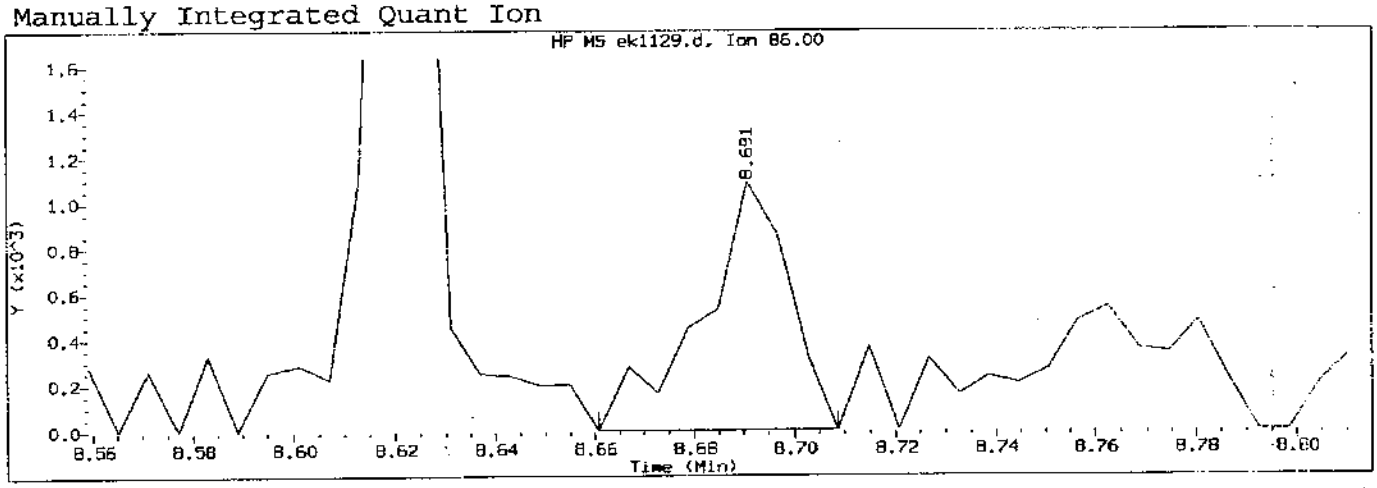
PCH89 0779

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 126
Compound Name : Diallate (peak 2)
Scan Number : 1155
Retention Time (minutes): 8.691
Quant Ion : 86
Area (flag) : 1323 M
Concentration (ng/ul) : 0.1890
Integration start scan : 1149 Integration stop scan: 1157
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 11/23/11

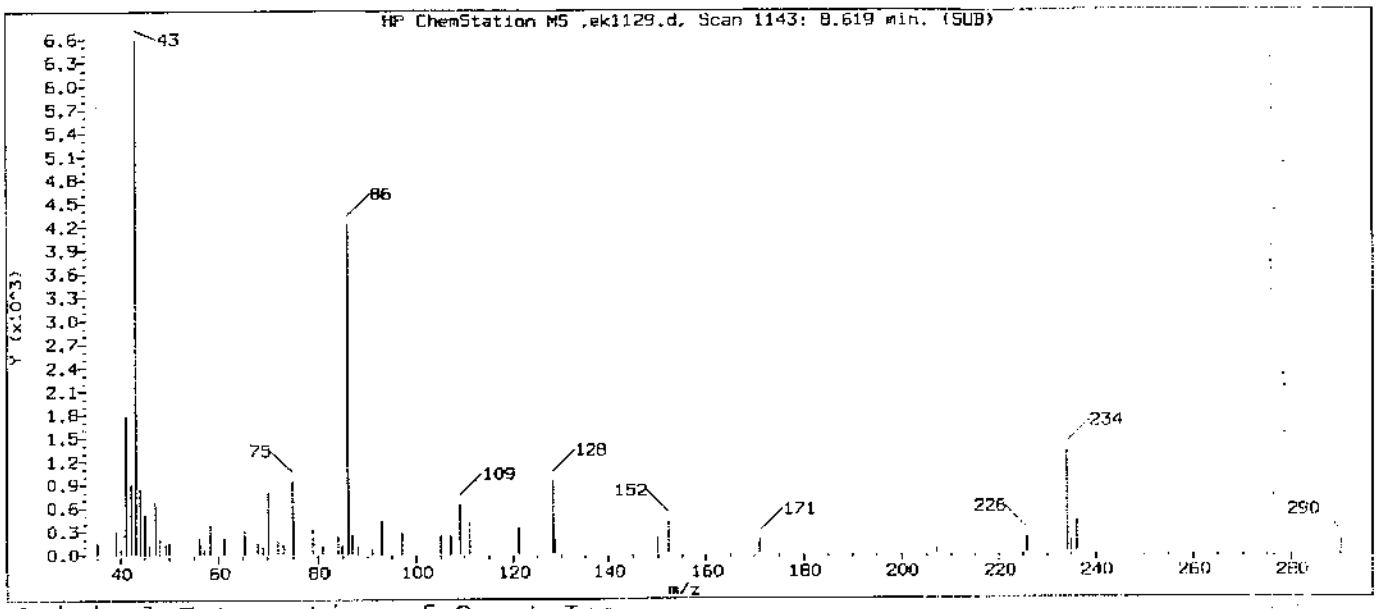
GC/MS audit/management approval: [signature] PCH89 6788

NOV 25 2011

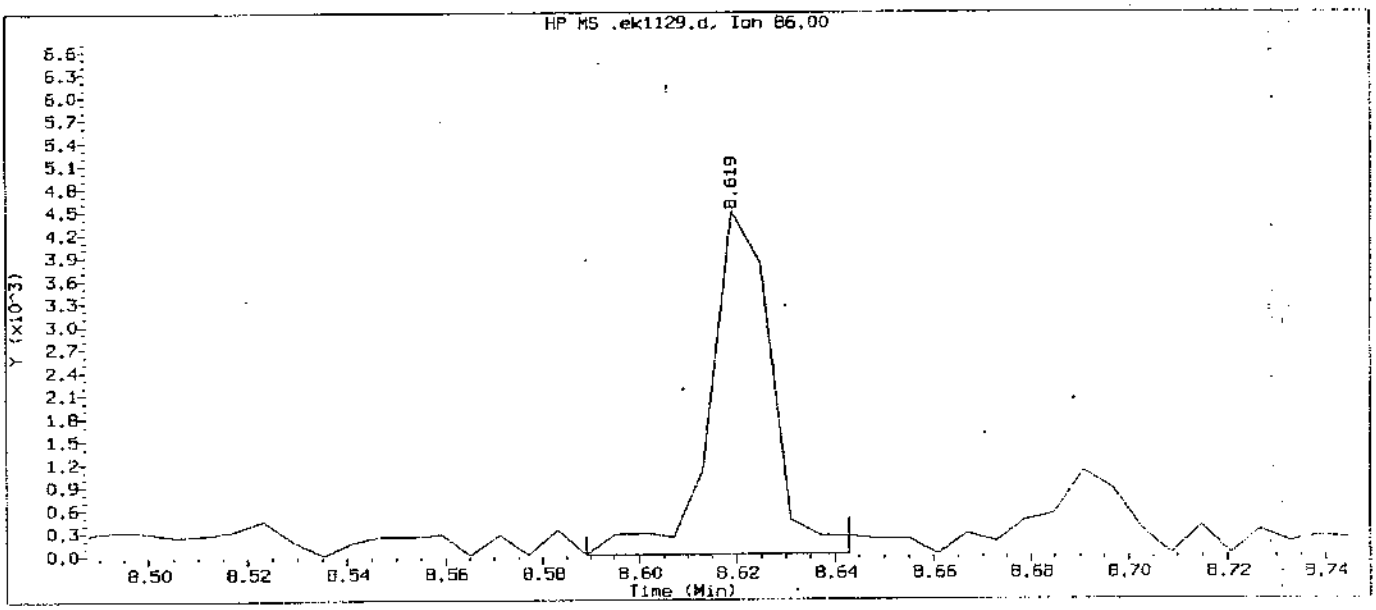
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

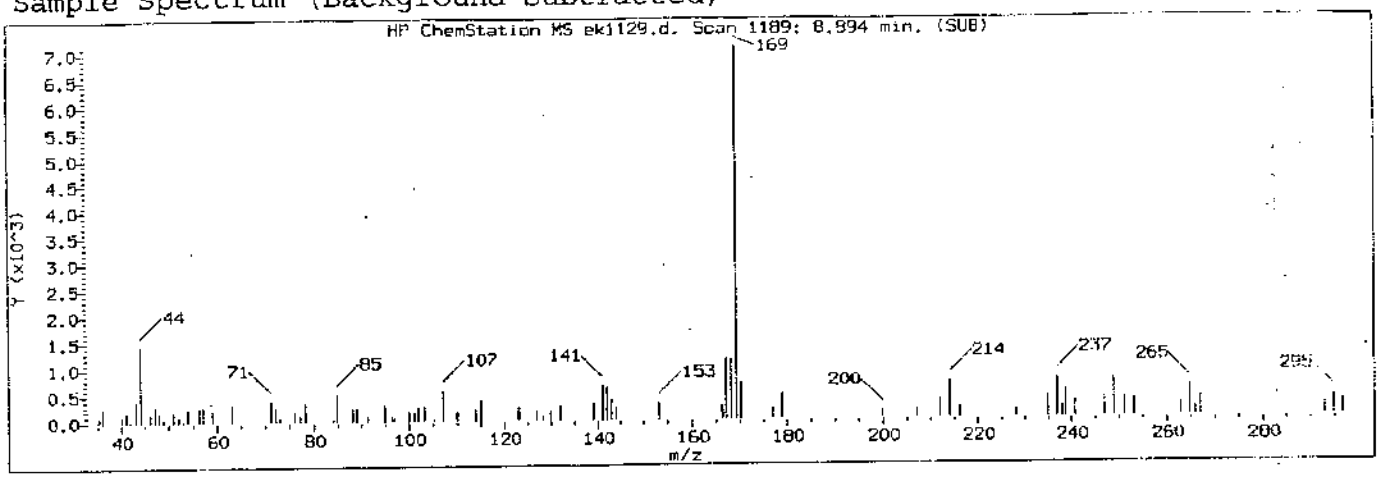
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

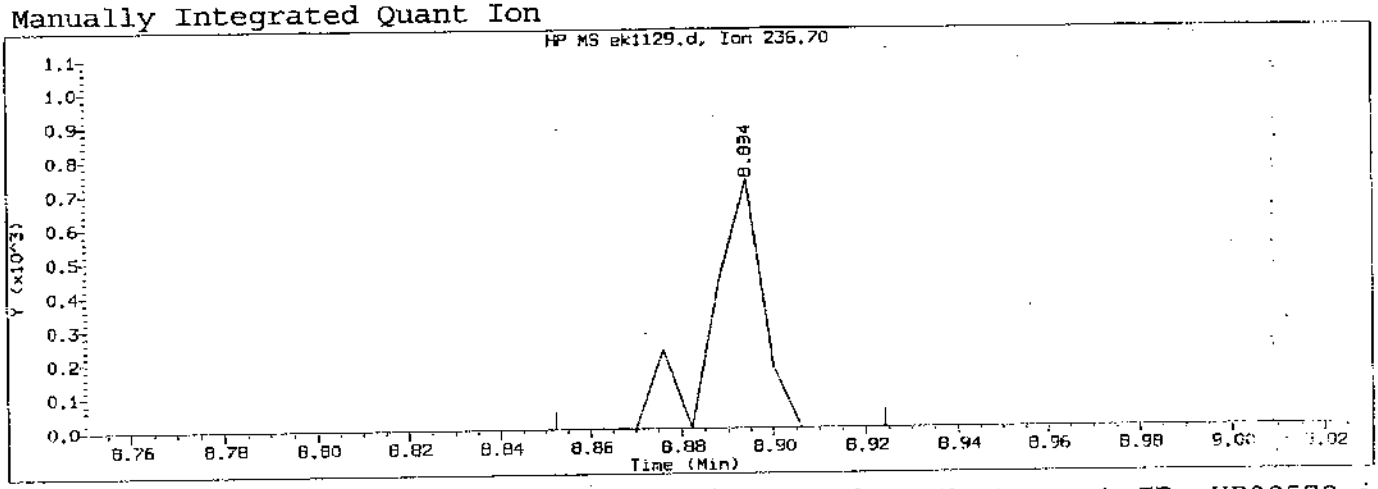
Compound Number : 126
Compound Name : Diallate (peak 2)
Scan Number : 1143
Retention Time (minutes): 8.619
Quant Ion : 86
Area : 3946
Concentration (ng/ul) : 0.5635
Integration start scan : 1137 Integration stop scan: 1146 PCH89 8781
Y at integration start : 0 Y at integration end: 0

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	:	132
Compound Name	:	Pentachloronitrobenzene
Scan Number	:	1189
Retention Time (minutes)	:	8.894
Quant Ion	:	237
Area (flag)	:	569 M
Concentration (ng/ul)	:	0.3522
Integration start scan	:	1181 Integration stop scan: 1193
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: [signature] 11/25/11

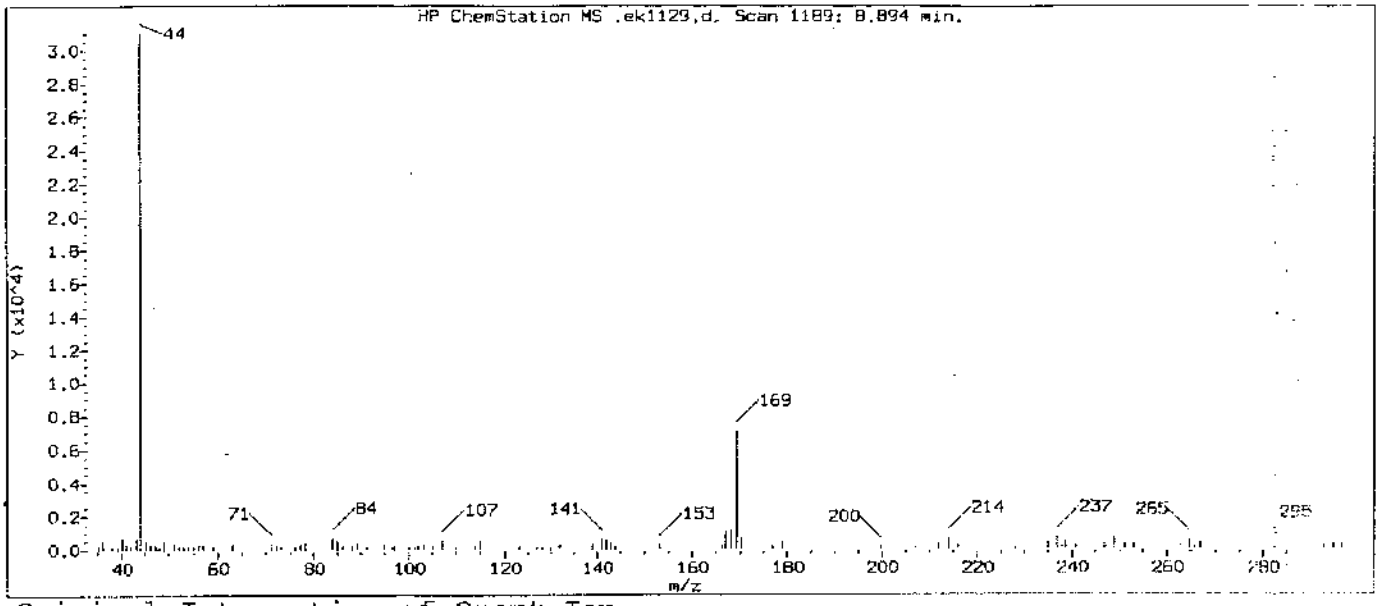
GC/MS audit/management approval: [signature] PCN69 6782

NOV 25 2011

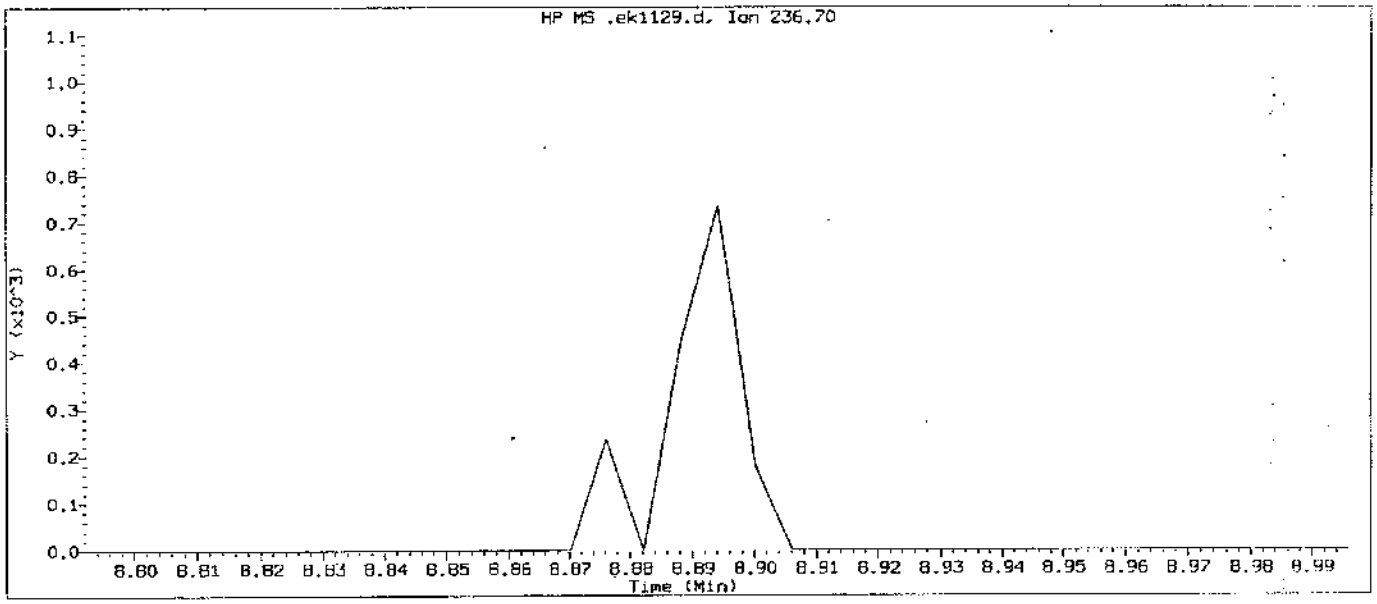
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

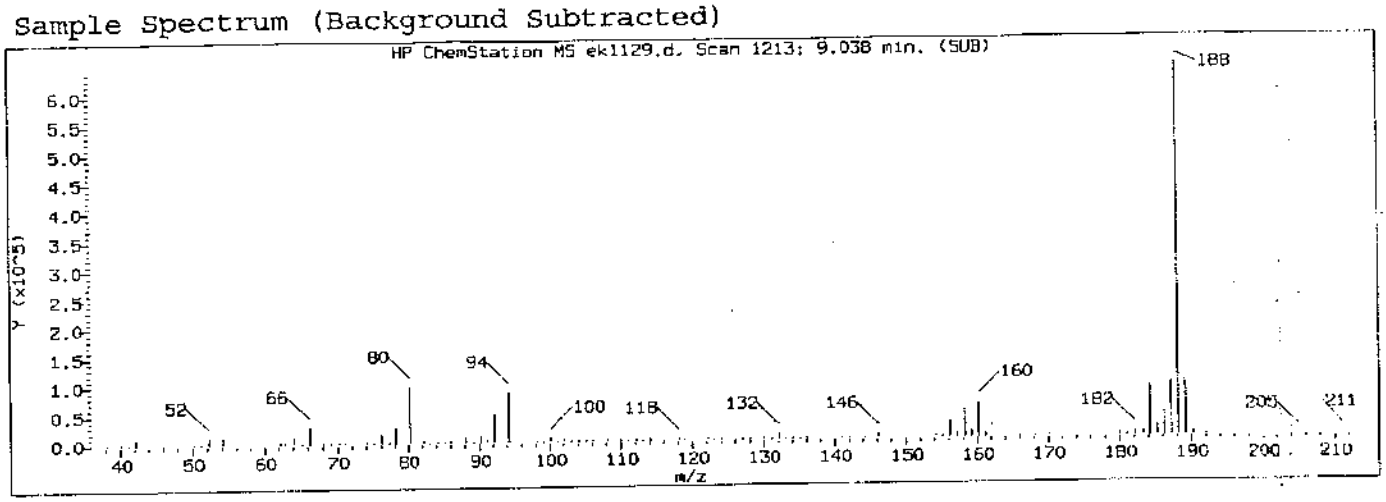
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 132
Compound Name : Pentachloronitrobenzene
Expected RT (minutes) : 8.894
Quant Ion : 237

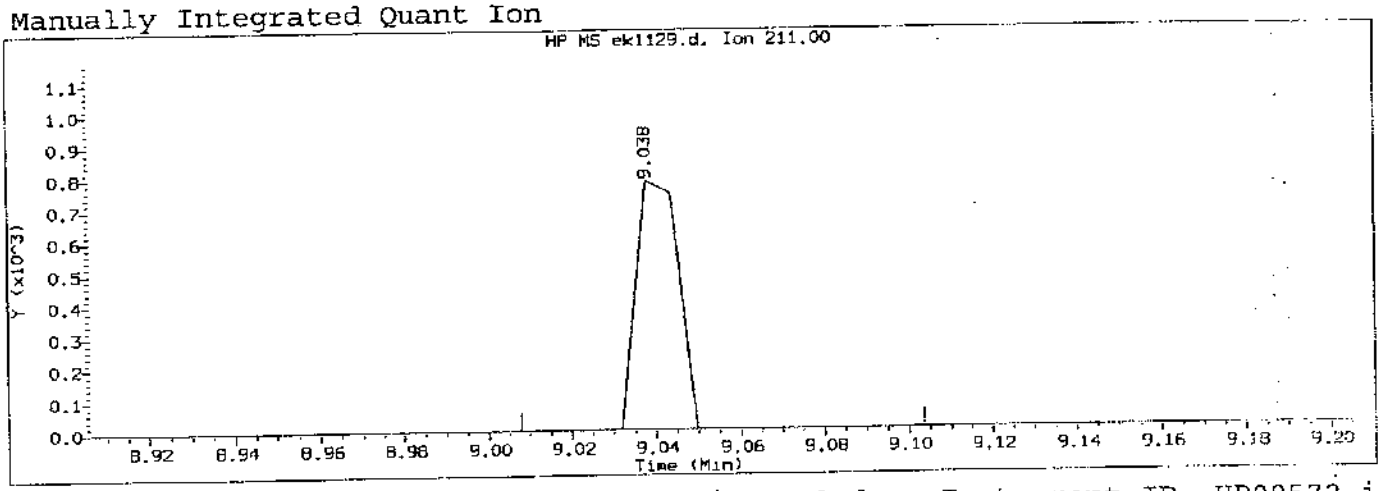
PCN89 6783

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlal11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 136
Compound Name	: Dinoseb
Scan Number	: 1213
Retention Time (minutes)	: 9.038
Quant Ion	: 211
Area (flag)	: 548 M
Concentration (ng/ul)	: 3.0111
Integration start scan	: 1207 Integration stop scan: 1223
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MSB 2011 11/23/11

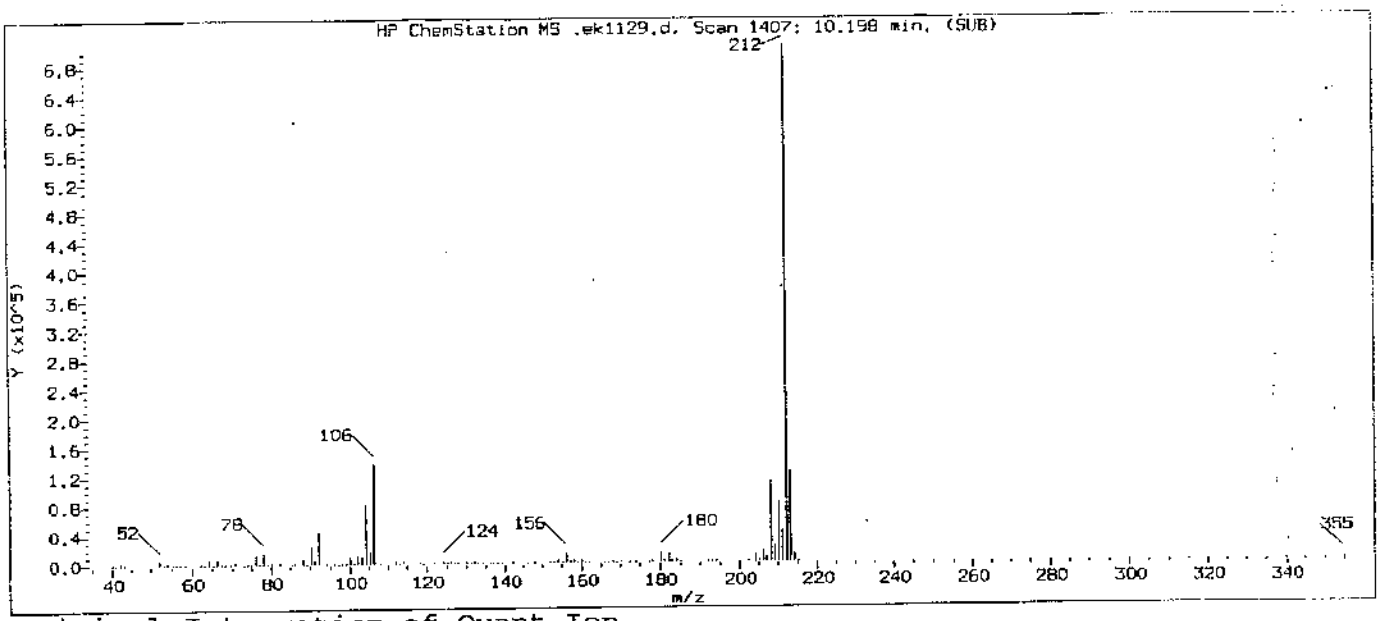
GC/MS audit/management approval: Matthew E. Barton NOV 25 2011

FCH09 6784

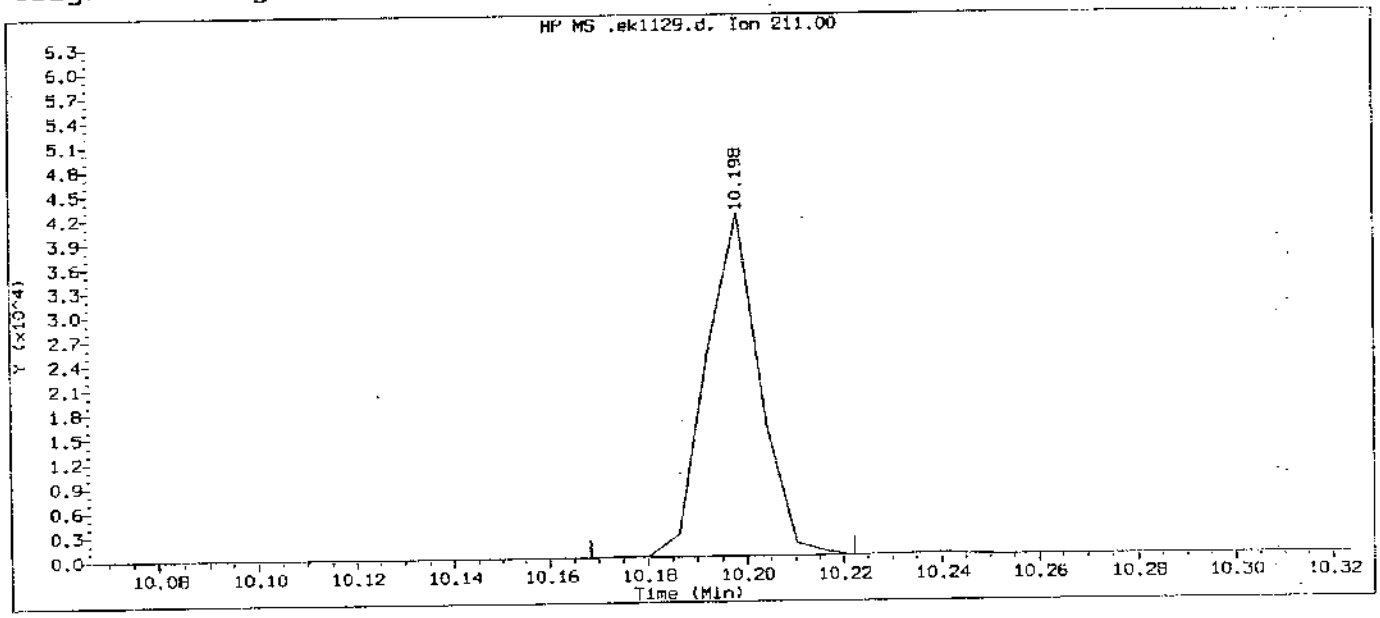
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlalll
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

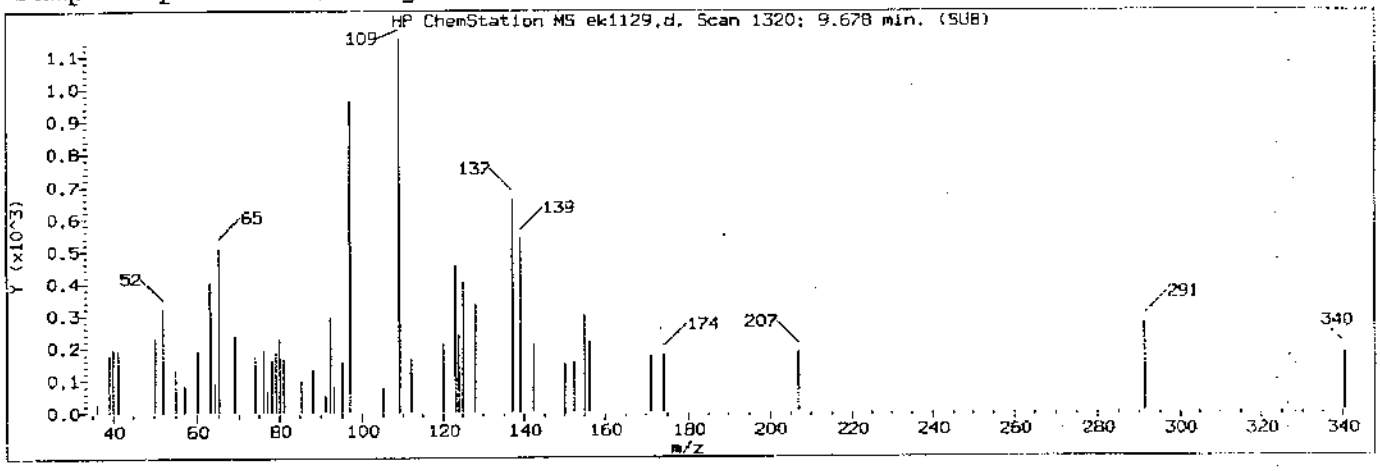
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 136
Compound Name	: Dinoseb
Scan Number	: 1407
Retention Time (minutes)	: 10.198
Quant Ion	: 211
Area	: 32073
Concentration (ng/ul)	: 9.0599
Integration start scan	: 1401 Integration stop scan: 1410
Y at integration start	: 0 Y at integration end: 0

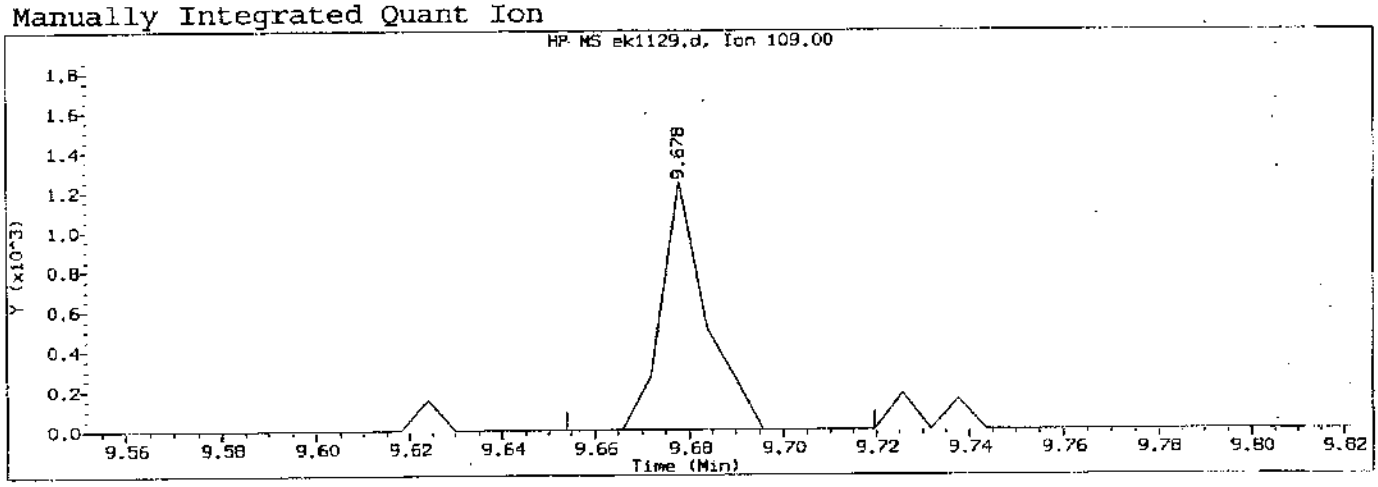
PCH89 8785

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 143
Compound Name : Parathion
Scan Number : 1320
Retention Time (minutes): 9.678
Quant Ion : 109
Area (flag) : 820 M
Concentration (ng/ul) : 0.2046
Integration start scan : 1315 Integration stop scan: 1326
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 11/25/11

GC/MS audit/management approval:

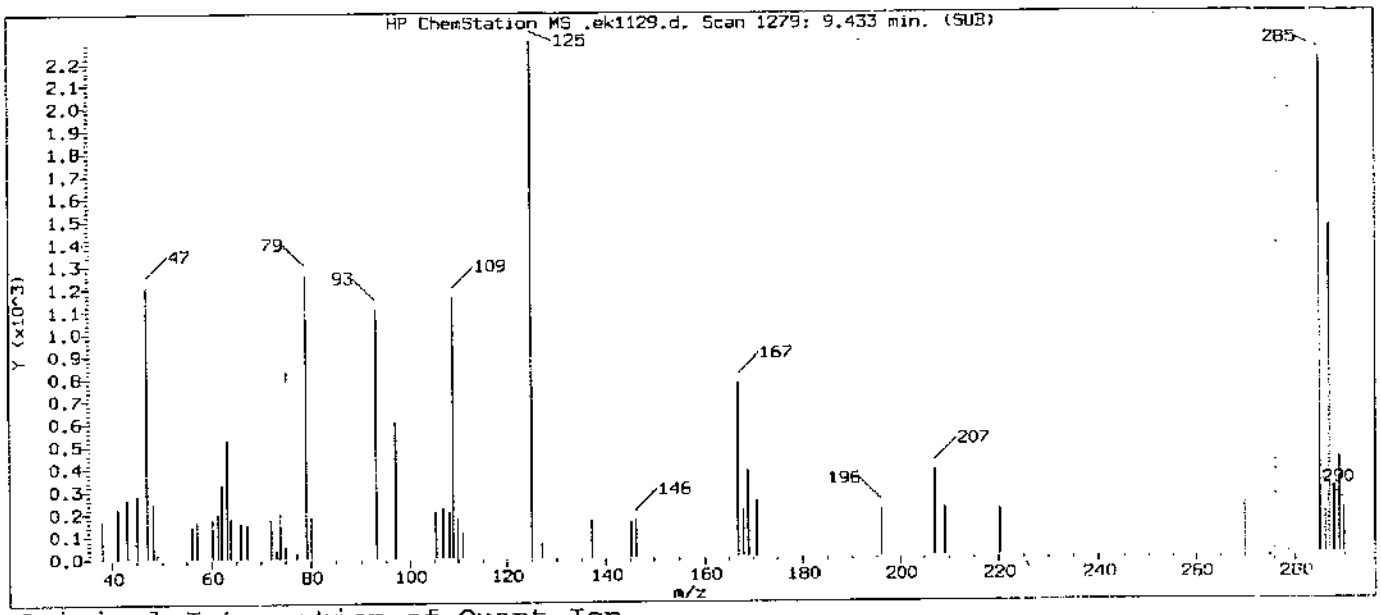
PCH69 5786

NOV 25 2011

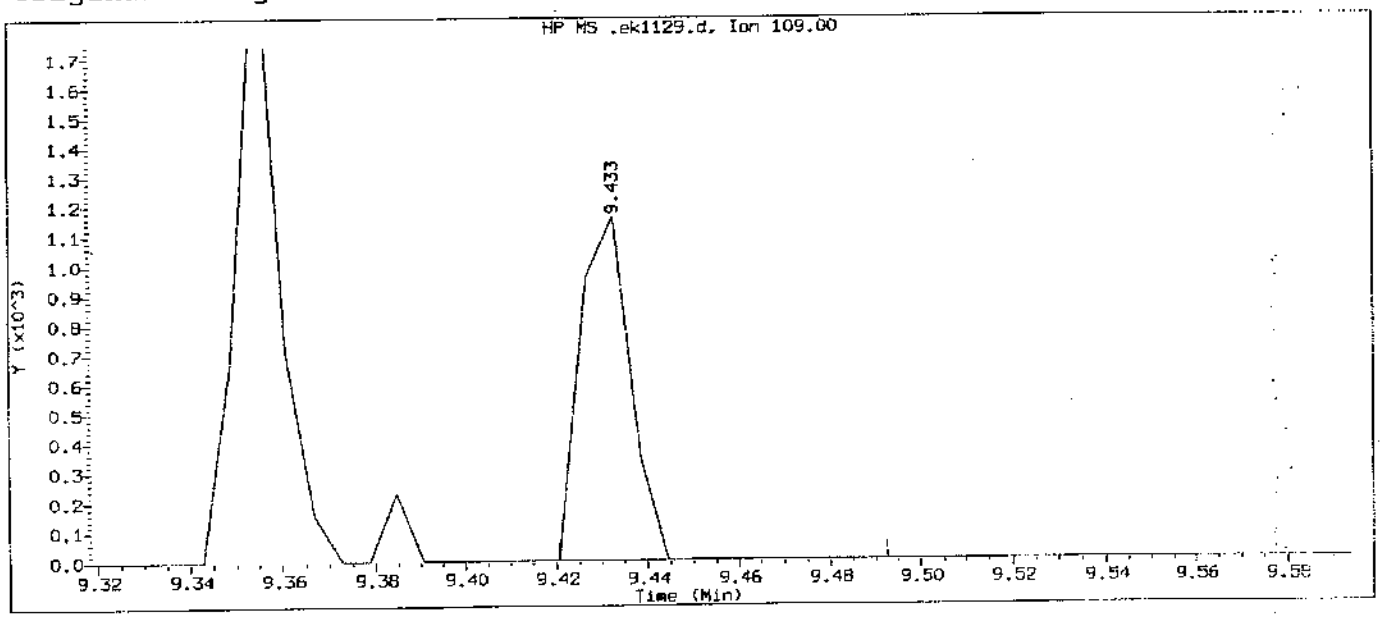
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

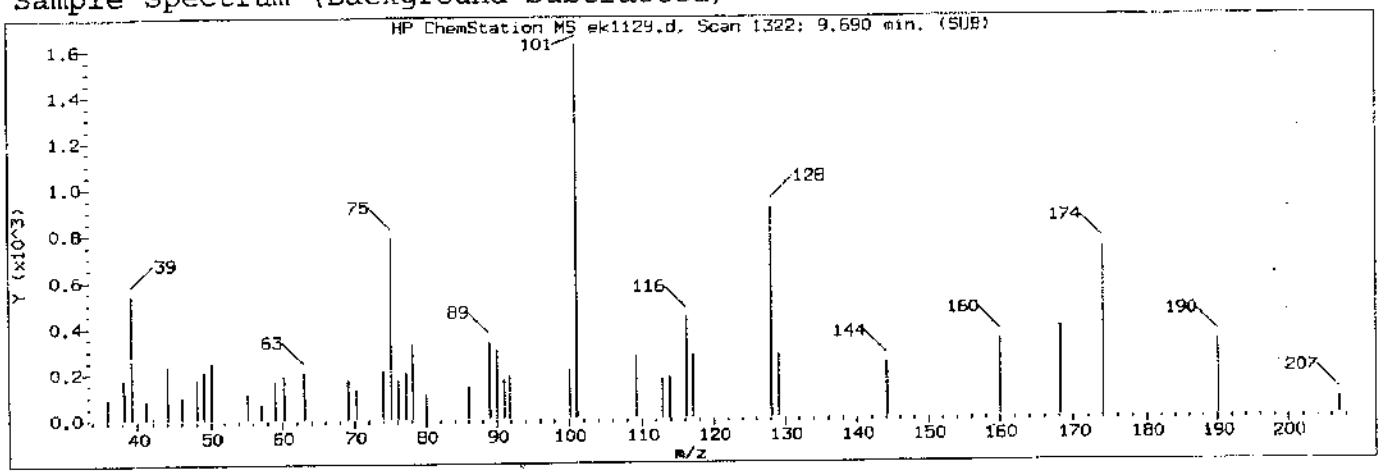
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 143
Compound Name	: Parathion
Scan Number	: 1279
Retention Time (minutes)	: 9.433
Quant Ion	: 109
Area	: 886
Concentration (ng/ul)	: 0.2211
Integration start scan	: 1276 Integration stop scan: 1288
Y at integration start	: 0 Y at integration end: 0

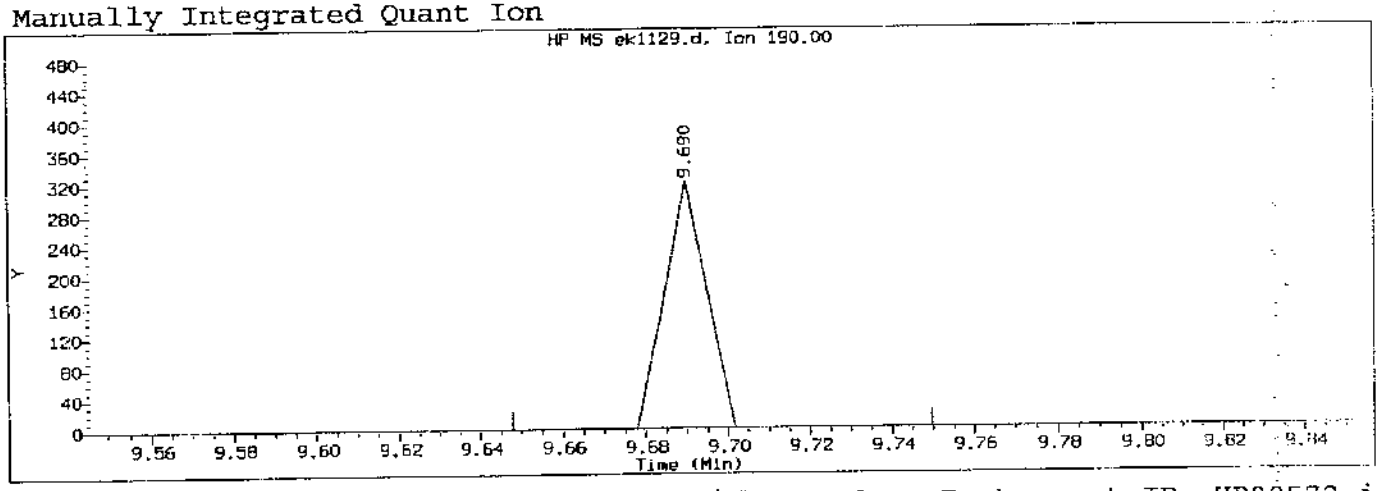
PCH09 8787

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 144
Compound Name : 4-Nitroquinoline-1-oxide
Scan Number : 1322
Retention Time (minutes): 9.690
Quant Ion : 190
Area (flag) : 225 M
Concentration (ng/ul) : 2.5300
Integration start scan : 1314 Integration stop scan: 1331
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: 11/23/11

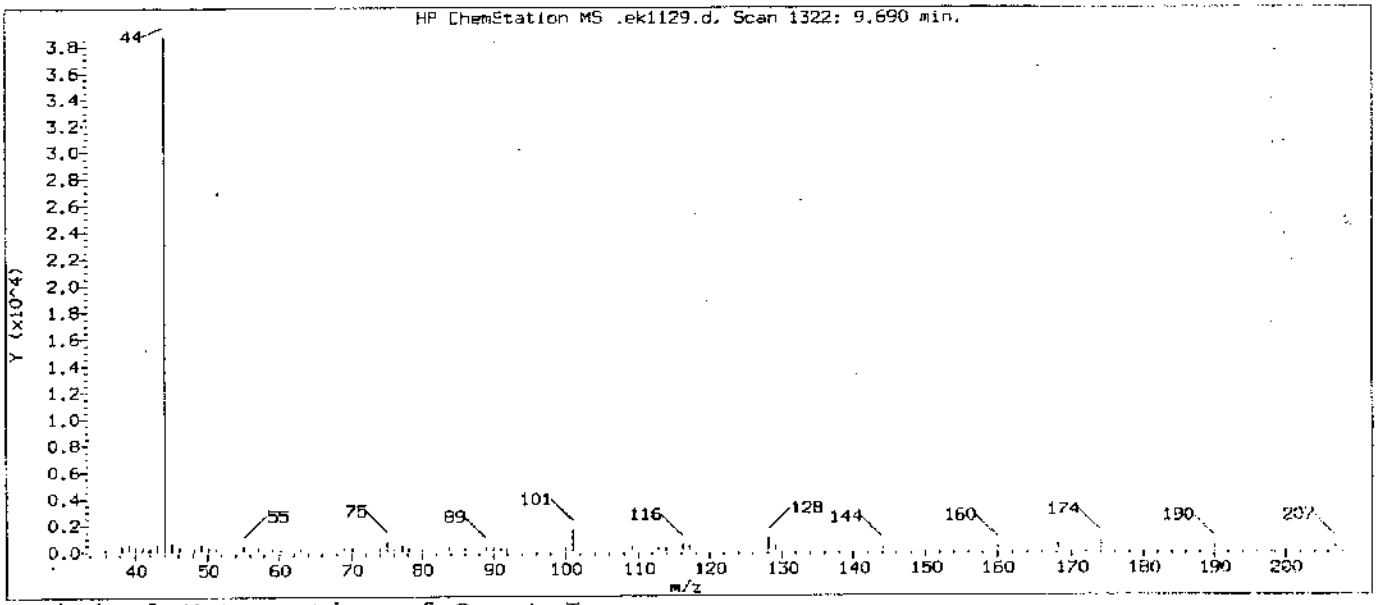
GC/MS audit/management approval: NOV 25 2011

PCH89 87B8

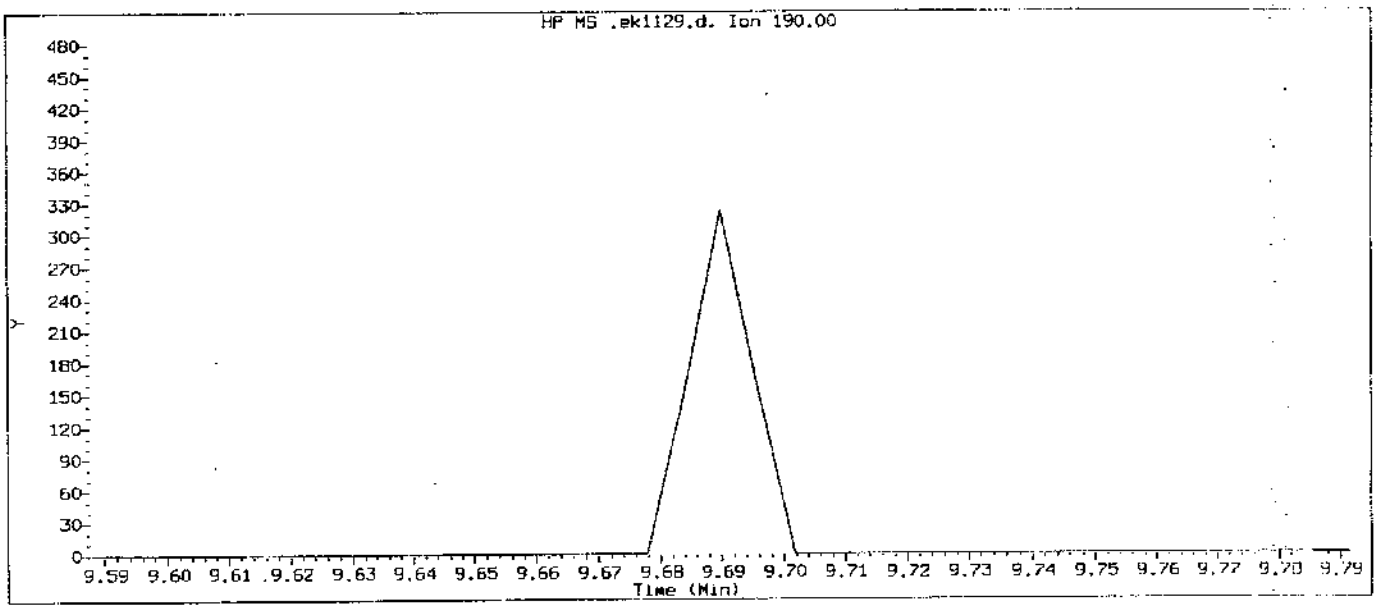
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

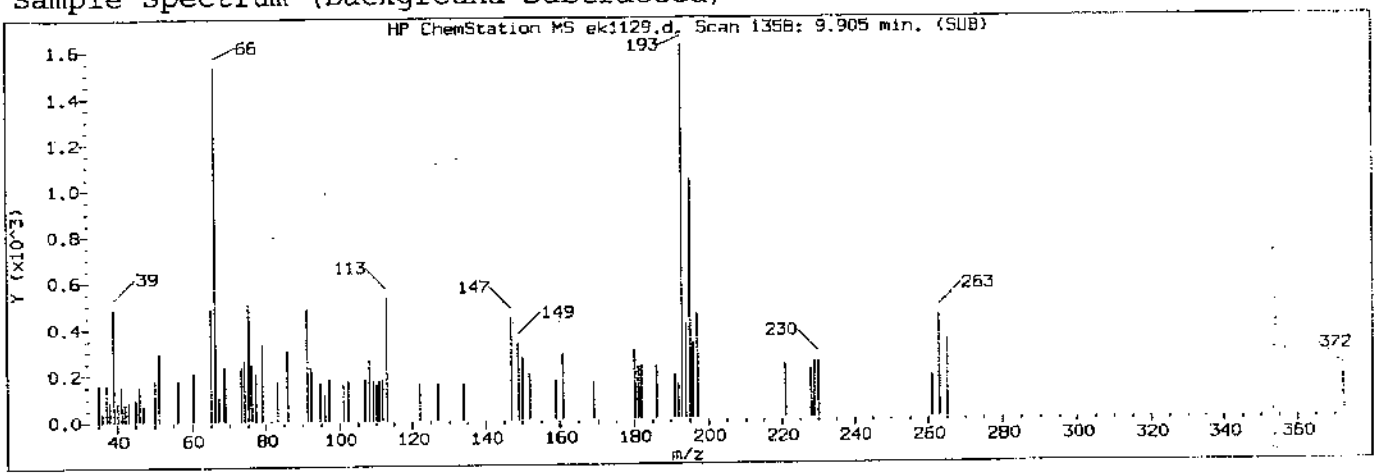
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

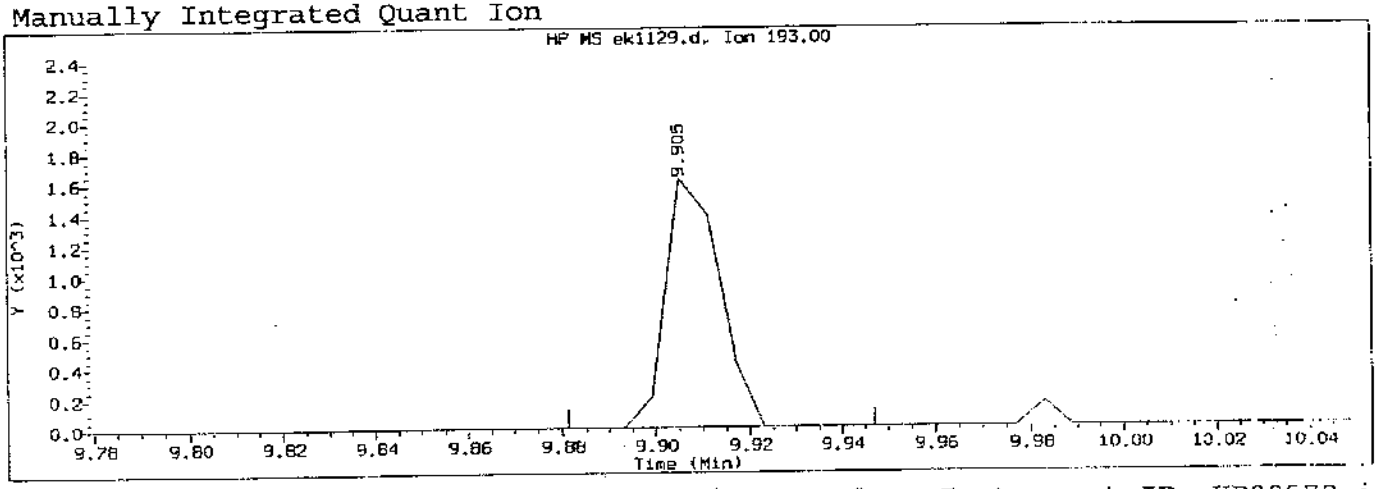
Compound Number : 144
Compound Name : 4-Nitroquinoline-1-oxide
Expected RT (minutes) : 9.690
Quant Ion : 190

FCH09 0789

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	:	146
Compound Name	:	Isodrin
Scan Number	:	1358
Retention Time (minutes)	:	9.905
Quant Ion	:	193
Area (flag)	:	1299 M
Concentration (ng/ul)	:	0.4585
Integration start scan	:	1353 Integration stop scan: 1364
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integration)

Analyst responsible for change: May 2011 11/25/11

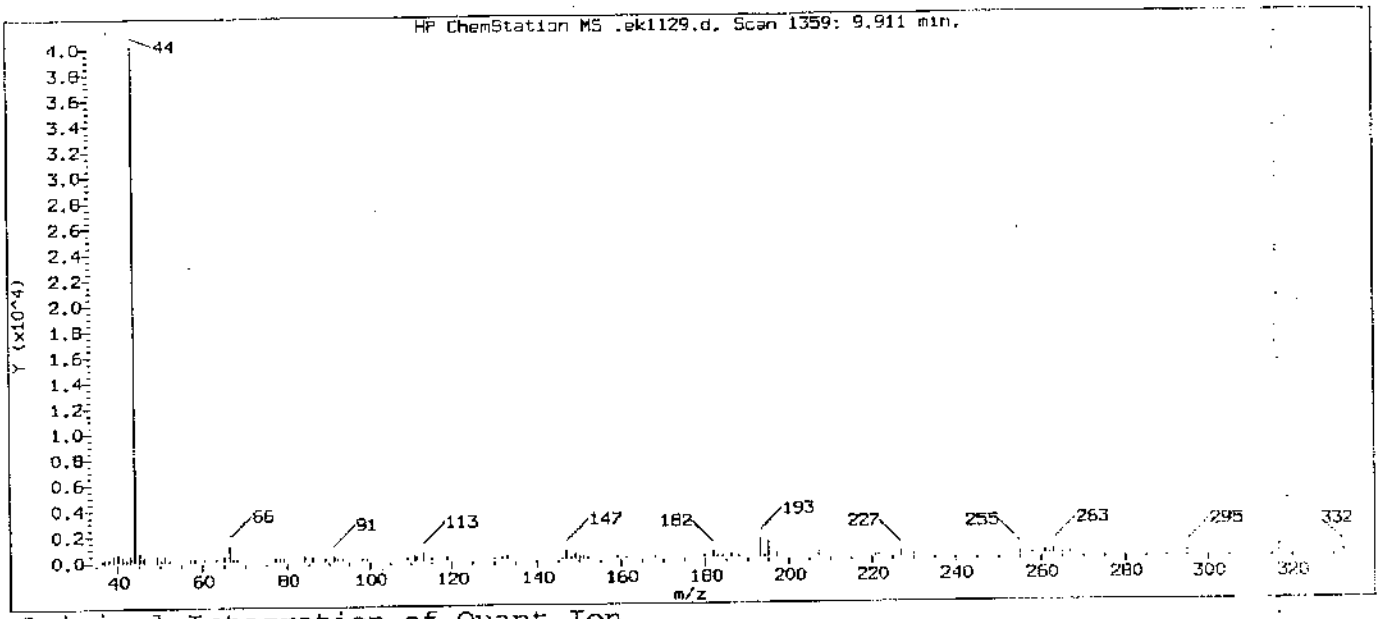
GC/MS audit/management approval: Matthew E Barton PCH09 8796

NOV 25 2011

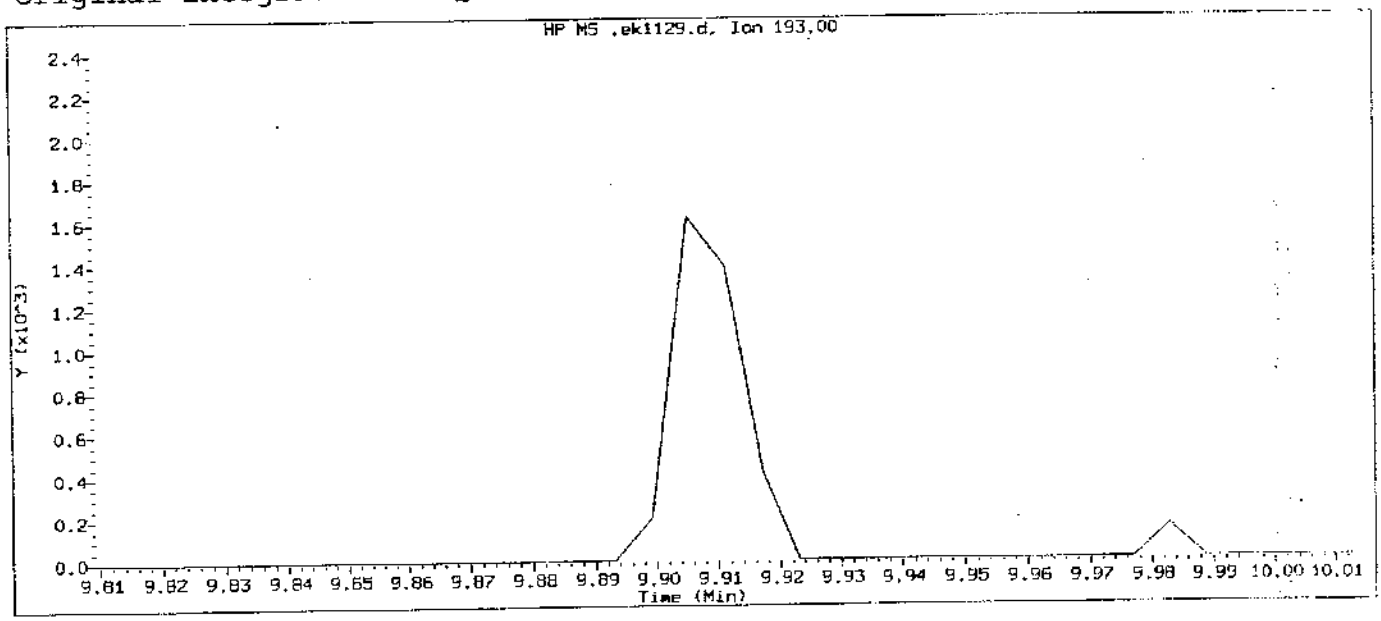
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

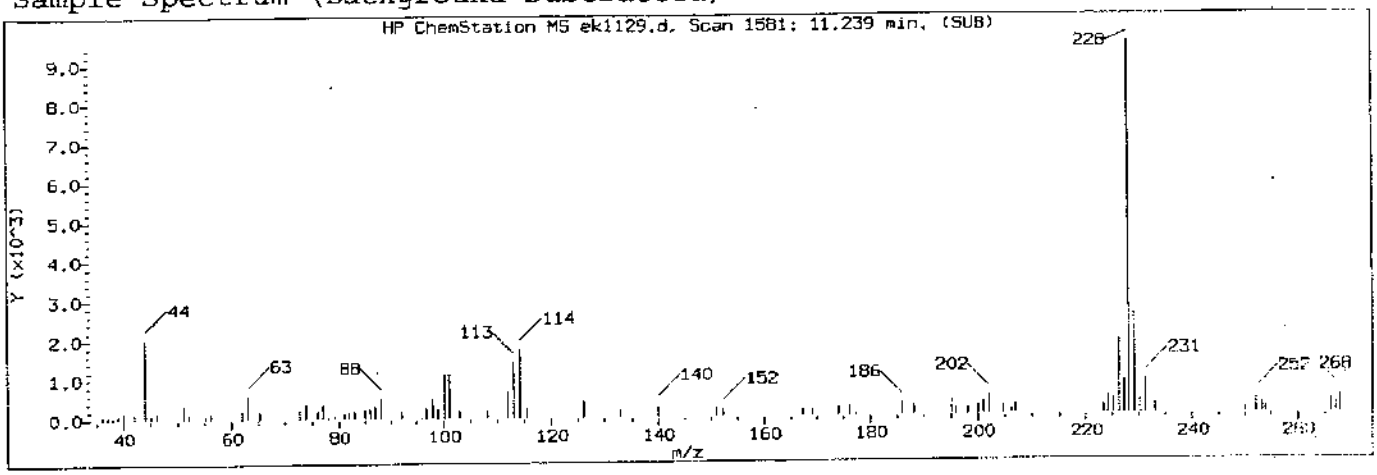
Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 146
Compound Name : Isodrin
Expected RT (minutes) : 9.911
Quant Ion : 193

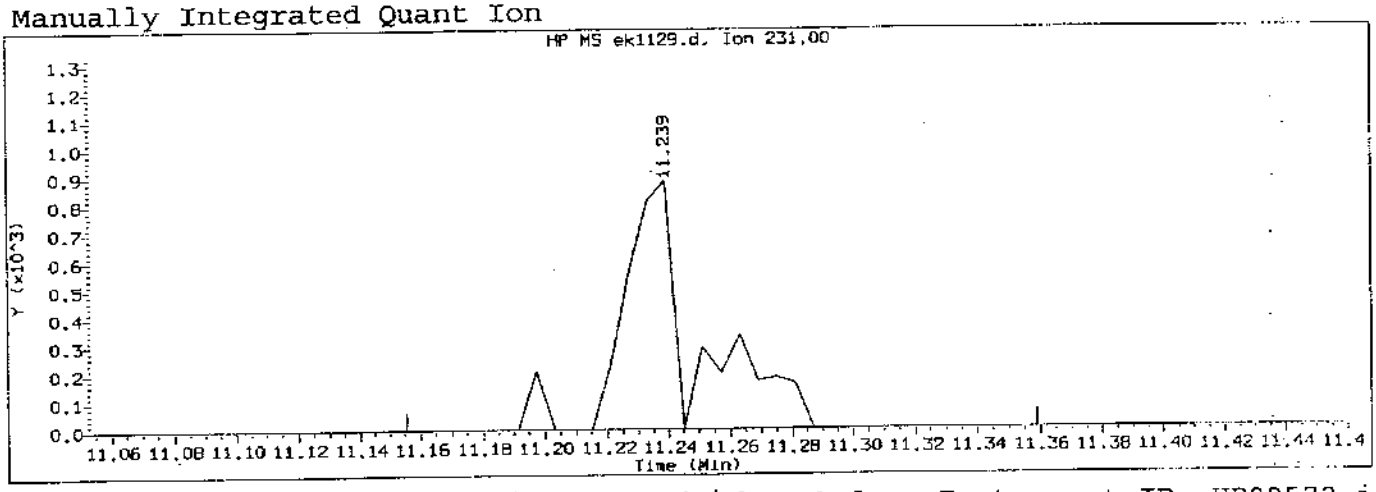
PCH89 8791

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5md1a111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:50 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number	: 165
Compound Name	: 4,4'-Methylenebis(2-Chloroanil
Scan Number	: 1581
Retention Time (minutes)	: 11.239
Quant Ion	: 231
Area (flag)	: 1450 M
Concentration (ng/ul)	: 0.3410
Integration start scan	: 1566 Integration stop scan: 1600
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak ~~improper integration~~

Analyst responsible for change: [signature] 11/23/11

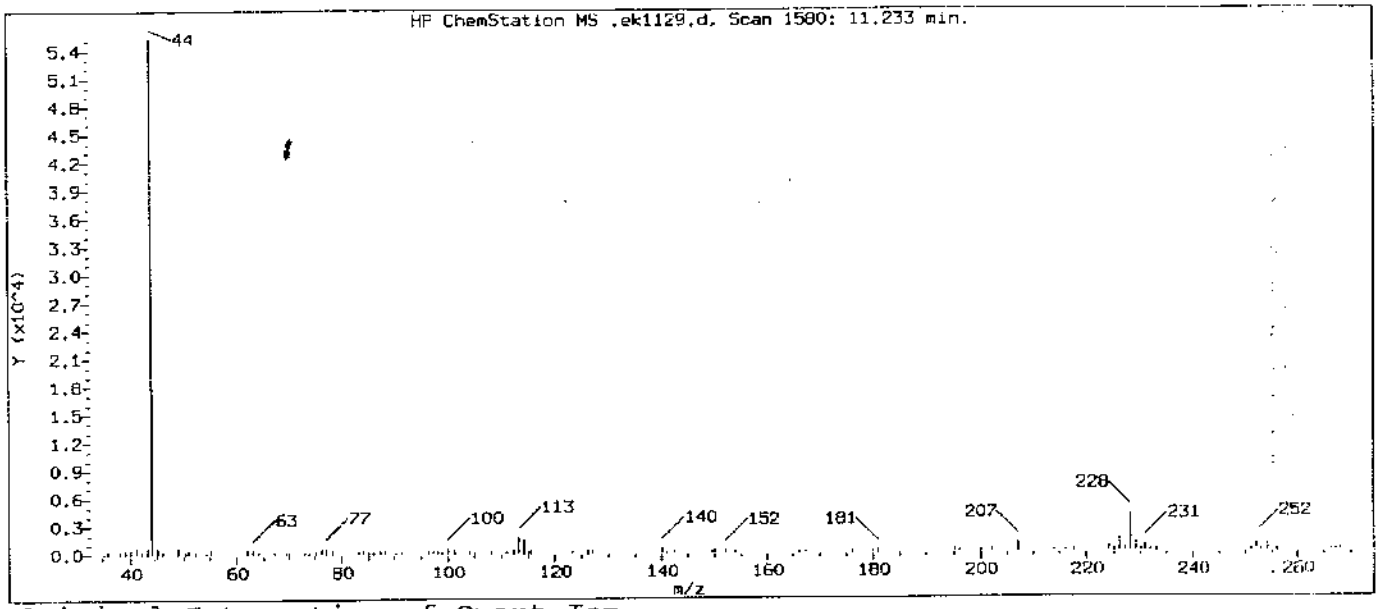
GC/MS audit/management approval: [signature] PCH89 8792

NOV 25 2011

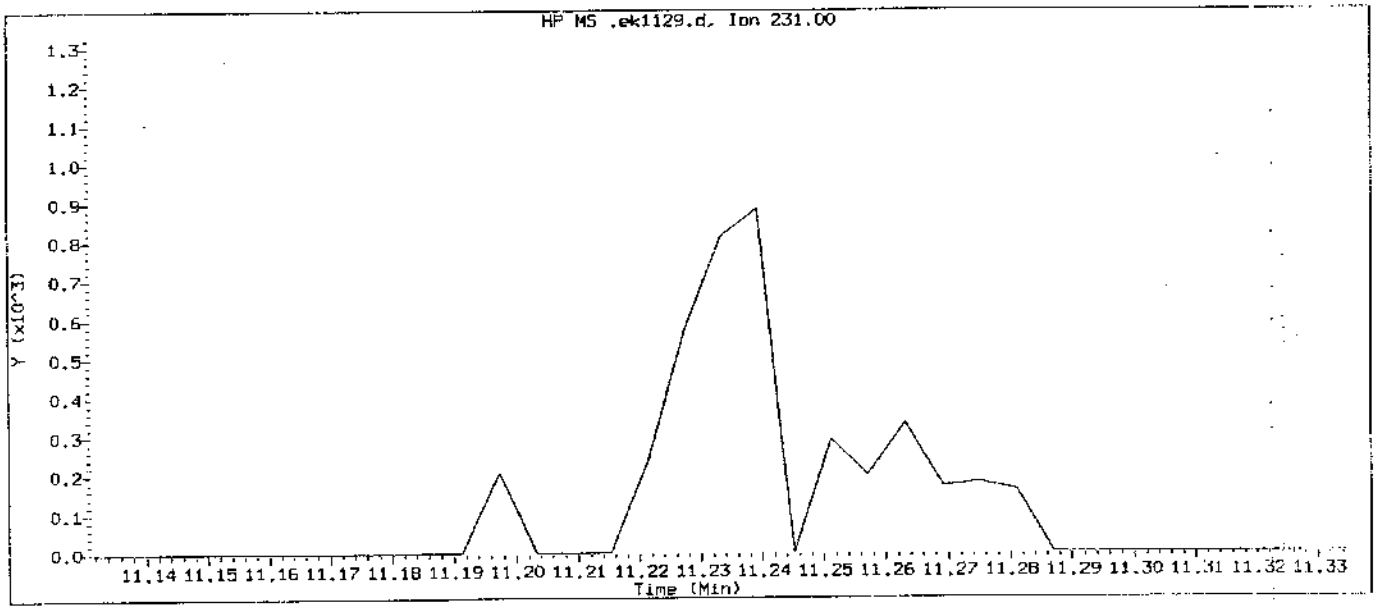
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1129.d, generated on 11/23/2011 at 08:54

Matthew E. Barton
Senior Specialist

Sample Spectrum



Original Integration of Quant Ion



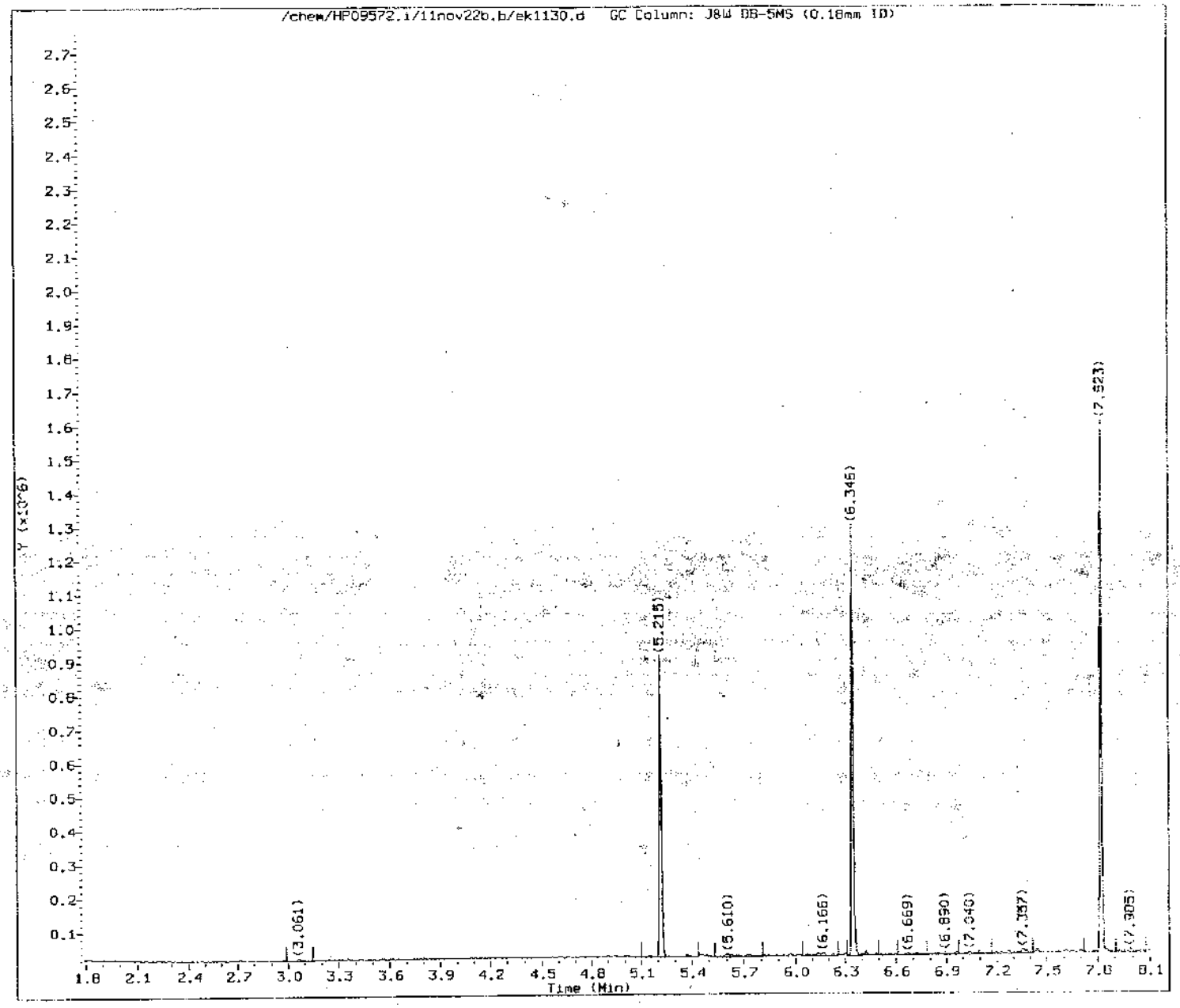
Data File: /chem/HP09572.i/11nov22b.b/ek1129.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:08 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.5mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:37 msw02109

Sample Name: SSTD0.5 Lab Sample ID: STD3191

Compound Number : 165
Compound Name : 4,4'-Methylenebis(2-Chloroanil
Expected RT (minutes) : 11.233
Quant Ion : 231

PCH89 18793



Quant Report

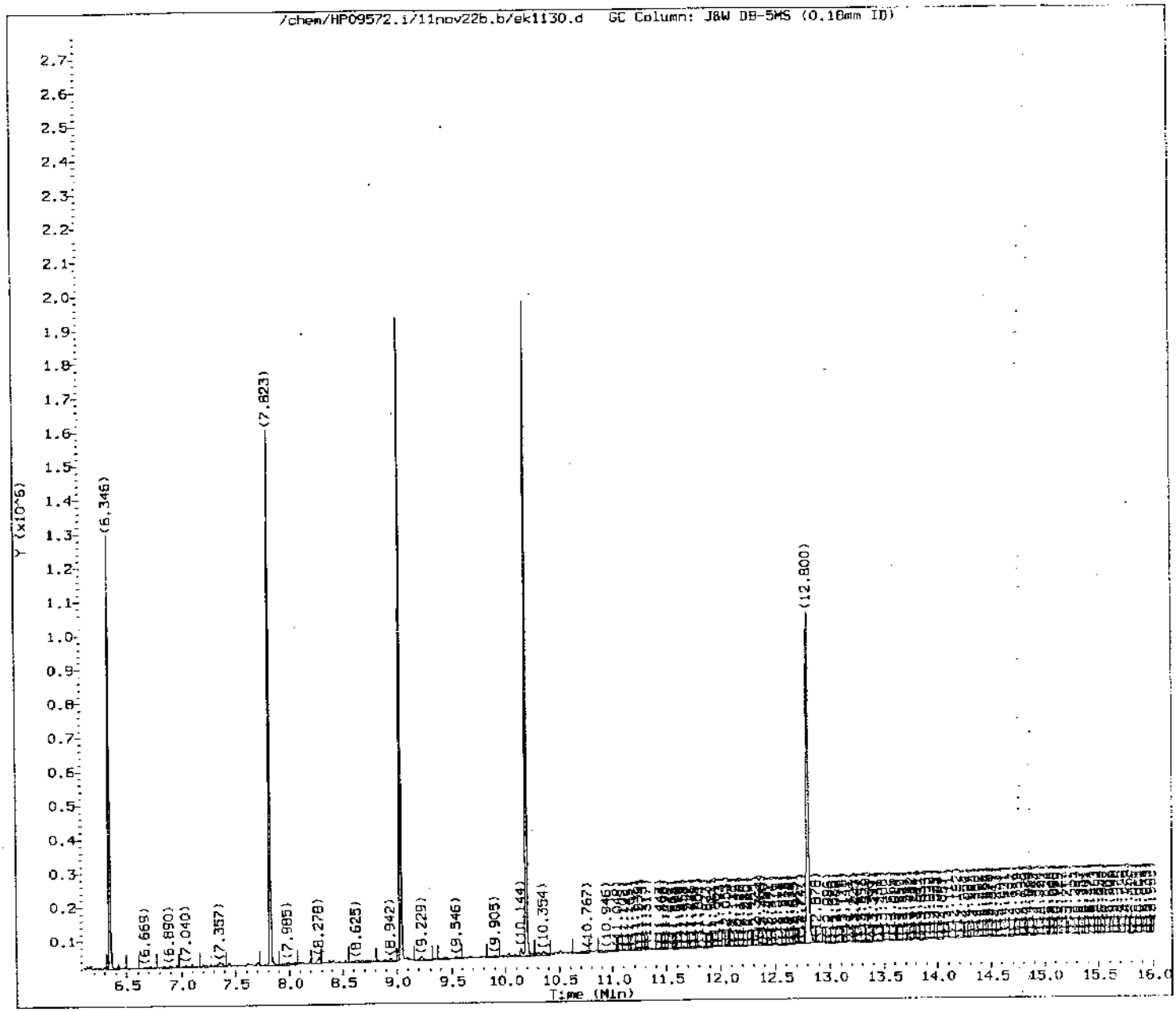
Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1130.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:32 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.1mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:51 msw02109

Sample Name: SSTD0.1 Lab Sample ID: STDMDL3191

PC#89 0794



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1130.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:32 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.1mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:51 msw02109

Sample Name: SSTD0.1 Lab Sample ID: STDMDL3191

PCH09 8295

11/23/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1130.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:32 Analyst ID: jrr02820

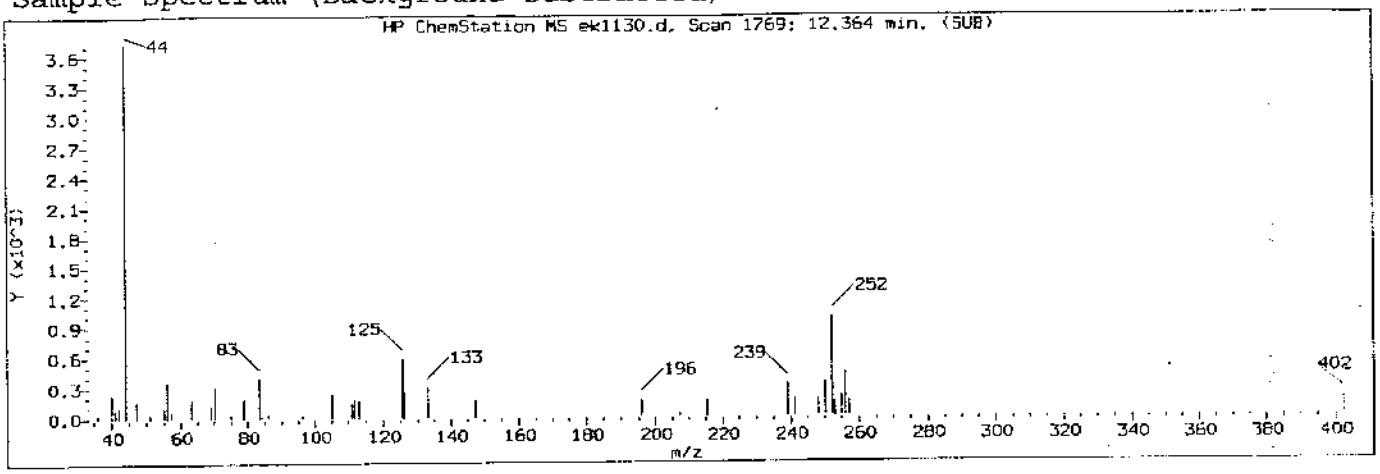
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.1mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:51 msw02109

Sample Name: SSTD0.1 Lab Sample ID: STDMDL3191

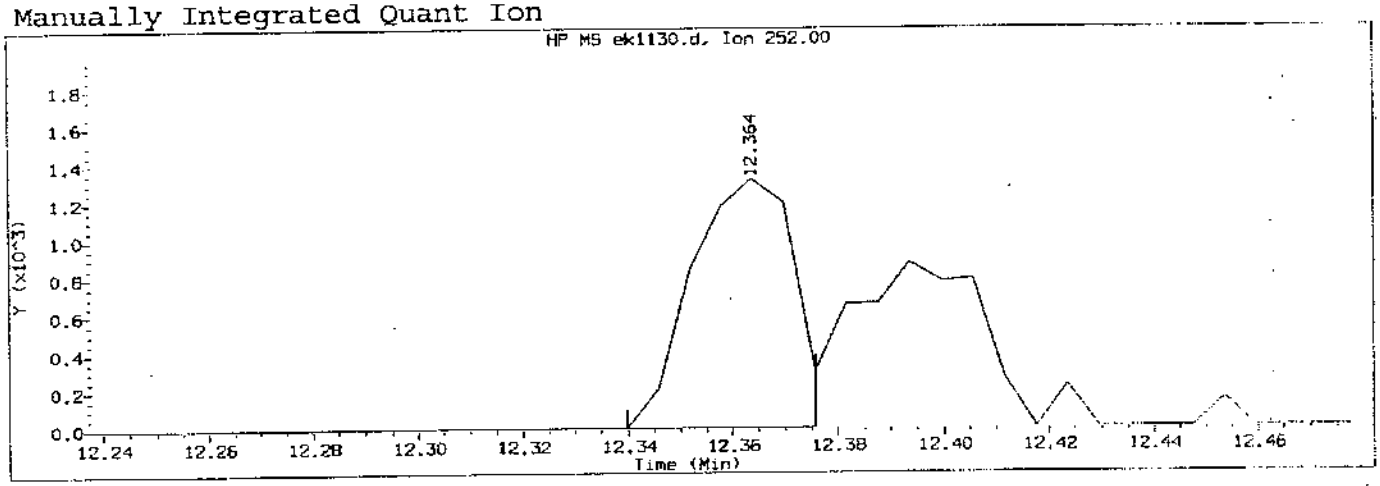
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21)	1,4-Dichlorobenzene-d4	(1)	5.215	152	106067	20.0000
52)	Naphthalene-d8	(2)	6.346	136	461361	20.0000
53)	Naphthalene	(2)	6.364	128	3212	0.1268
70)	2-Methylnaphthalene	(2)	6.956	142	1766	0.1031
71)	1-Methylnaphthalene	(2)	7.040	142	1454	0.0901
95)	Acenaphthylene	(3)	7.704	152	2653	0.1073
98)	Acenaphthene-d10	(3)	7.823	164	296565	20.0000
99)	Acenaphthene	(3)	7.847	153	1856	0.1110
111)	Fluorene	(3)	8.272	166	2159	0.1095
127)	Hexachlorobenzene	(4)	8.721	284	497	0.1192
135)	Phenanthrene-d10	(4)	9.038	188	532474	20.0000
137)	Phenanthrene	(4)	9.056	178	3821	0.1255
138)	Anthracene	(4)	9.097	178	2955	0.0984
147)	Fluoranthene	(4)	10.031	202	3200	0.1091
154)	Pyrene	(5)	10.210	202	4544	0.1348
166)	Benzo(a)anthracene	(5)	11.239	228	2163	0.0831
167)	Pyrene-d10	(5)	10.198	212	616117	20.0000
168)	Chrysene	(5)	11.275	228	2112	0.0787
172)	Benzo(b)fluoranthene	(6)	12.364	252	1805M	0.0759
173)	Benzo(k)fluoranthene	(6)	12.394	252	1544M	0.0641
174)	Benzo(a)pyrene	(6)	12.735	252	987	0.0469
175)	Perylene-d12	(6)	12.800	264	400498	20.0000
177)	Indeno(1,2,3-cd)pyrene	(6)	14.075	276	1449	0.0664
178)	Dibenz(a,h)anthracene	(6)	14.111	278	994	0.0532
179)	Benzo(g,h,i)perylene	(6)	14.392	276	1217	0.0653
9)	2-Fluorophenol	(1)	3.929	112	867	0.1059
14)	Phenol-d5	(1)	4.892	99	1038	0.0876
15)	Phenol-d6	(1)	4.892	99	1038	0.0876
38)	Nitrobenzene-d5	(2)	5.718	82	934	0.0932
78)	2-Fluorobiphenyl	(3)	7.273	172	2336	0.1302
156)	Terphenyl-d14	(5)	10.354	244	2295	0.1235

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1130.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:32 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.1mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:51 msw02109

Sample Name: SSTD0.1 Lab Sample ID: STDMDL3191

Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1769
Retention Time (minutes): 12.364
Quant Ion : 252
Area (flag) : 1805 M
Concentration (ng/ul) : 0.0759
Integration start scan : 1764 Integration stop scan: 1770
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: _____

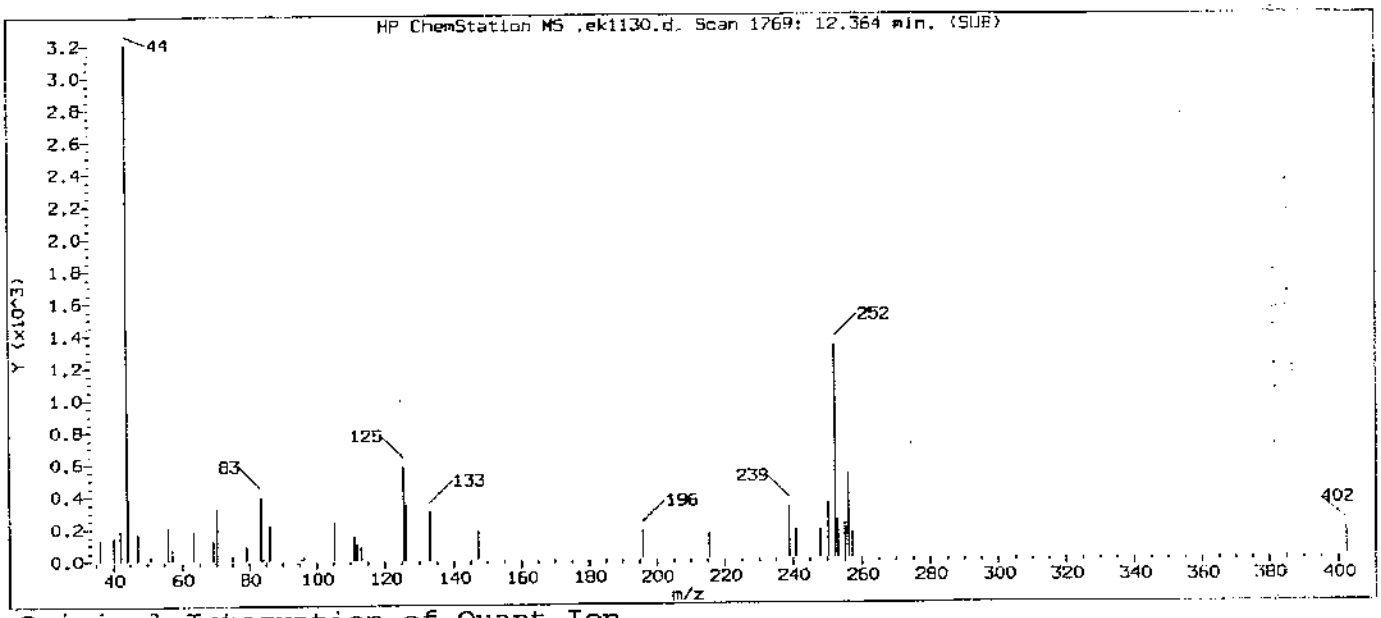
GC/MS audit/management approval: _____ PCH09 6797

NOV 25 2011

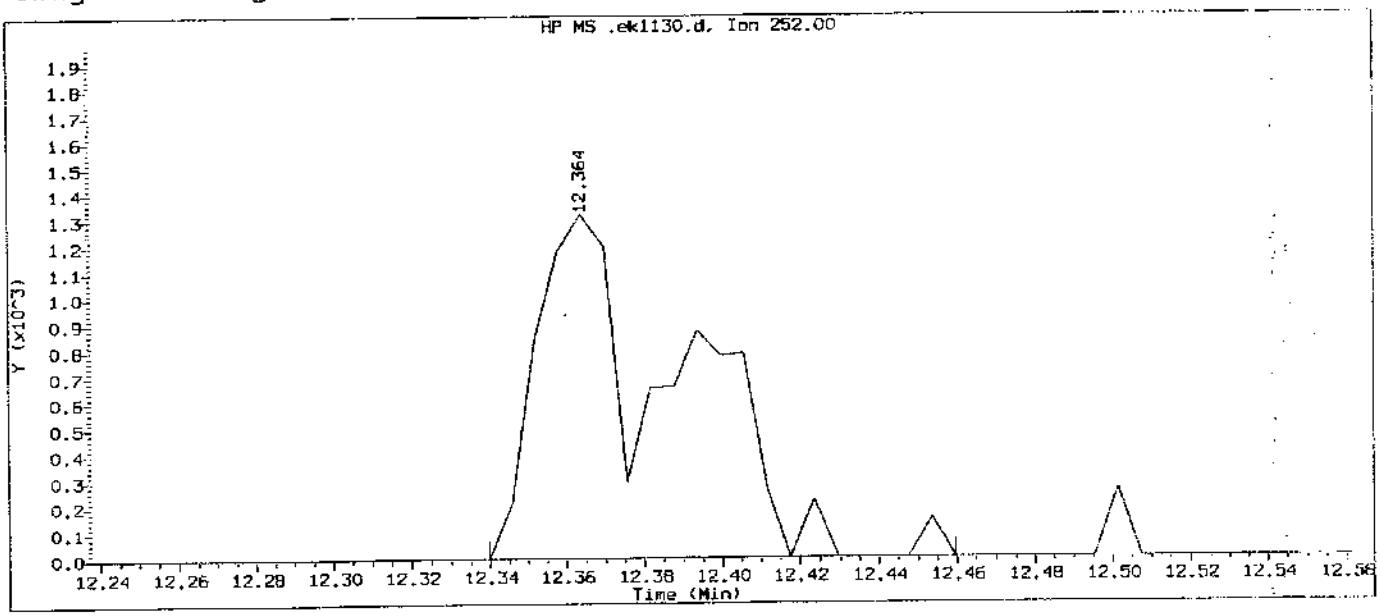
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1130.d, generated on 11/23/2011 at 08:53

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1130.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:32 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.1mdlall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:40 msw02109

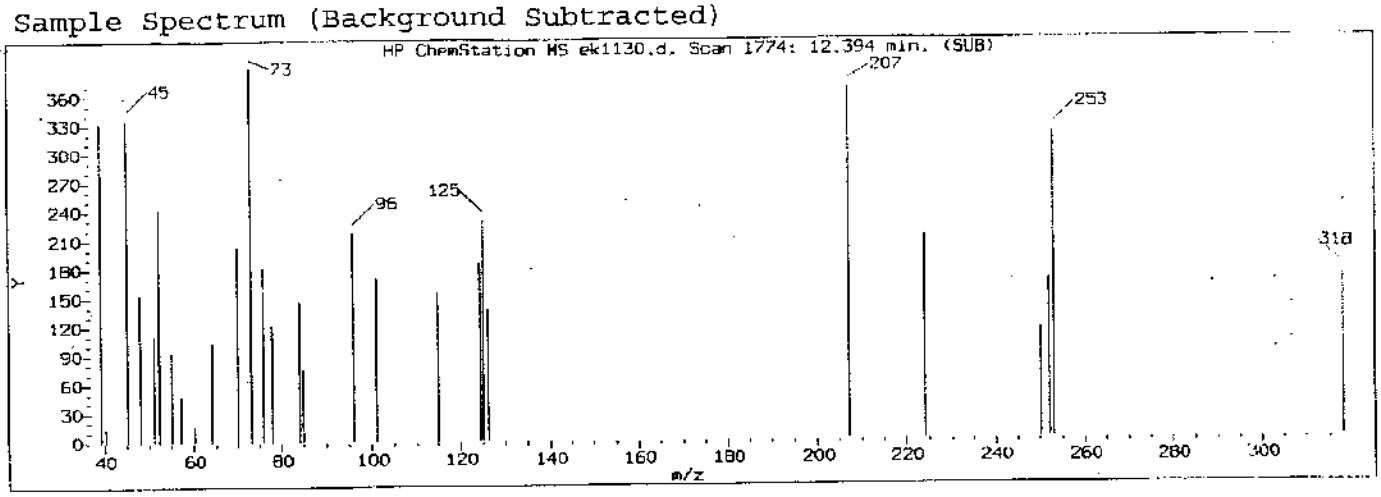
Sample Name: SSTD0.1 Lab Sample ID: STDMDL3191

Compound Number	:	172
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1769
Retention Time (minutes)	:	12.364
Quant Ion	:	252
Area	:	3379
Concentration (ng/ul)	:	0.1420
Integration start scan	:	1764 Integration stop scan: 1784
Y at integration start	:	0 Y at integration end: 0

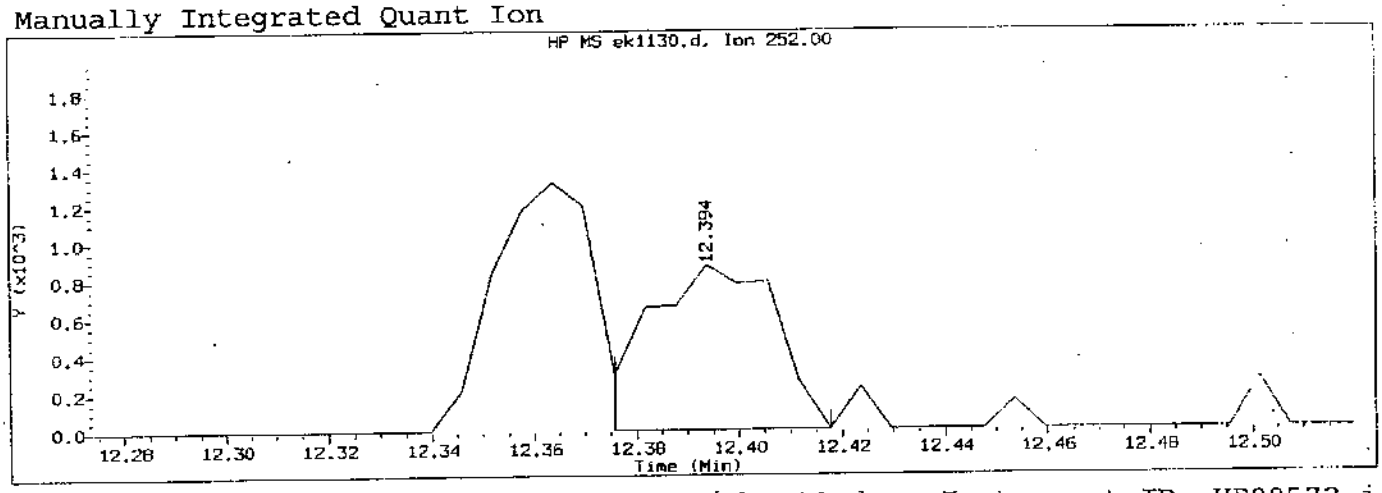
PCH89 0798

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1130.d, generated on 11/23/2011 at 08:53

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1130.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:32 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.1mdlal11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:51 msw02109

Sample Name: SSTD0.1 Lab Sample ID: STDMDL3191

Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1774
Retention Time (minutes)	:	12.394
Quant Ion	:	252
Area (flag)	:	1544 M
Concentration (ng/ul)	:	0.0641
Integration start scan	:	1770 Integration stop scan: 1777
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: [signature] 11/25/11

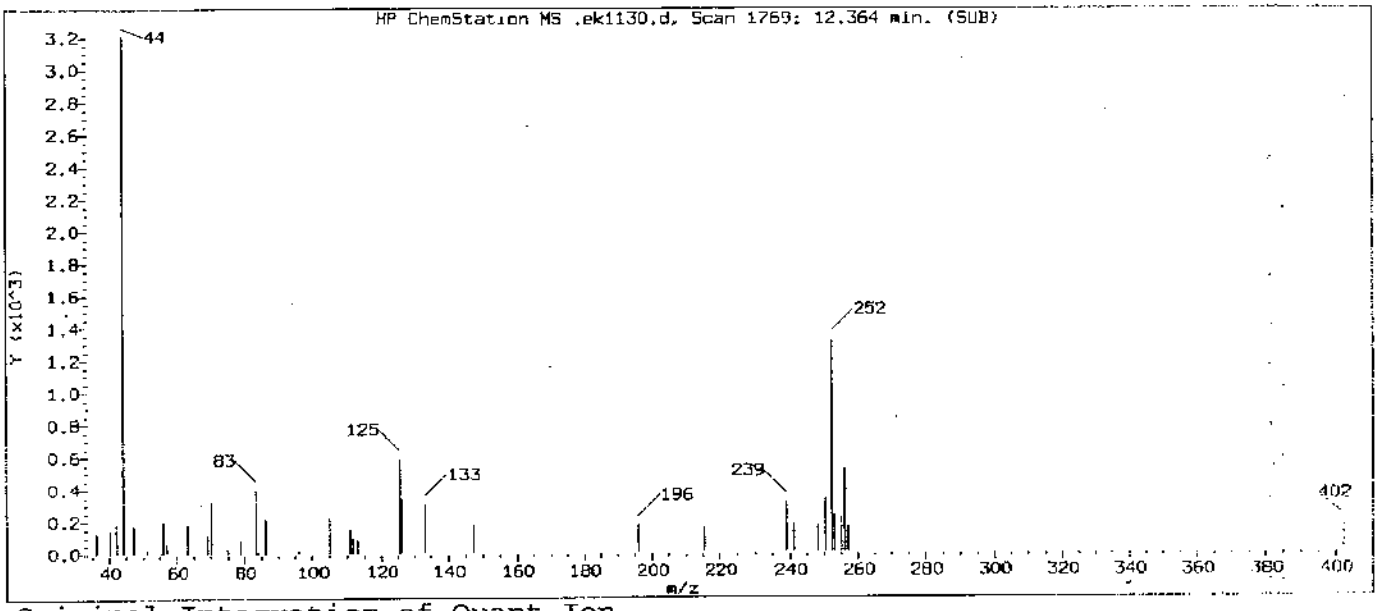
GC/MS audit/management approval: [signature] PCH09 8799

NOV 25 2011

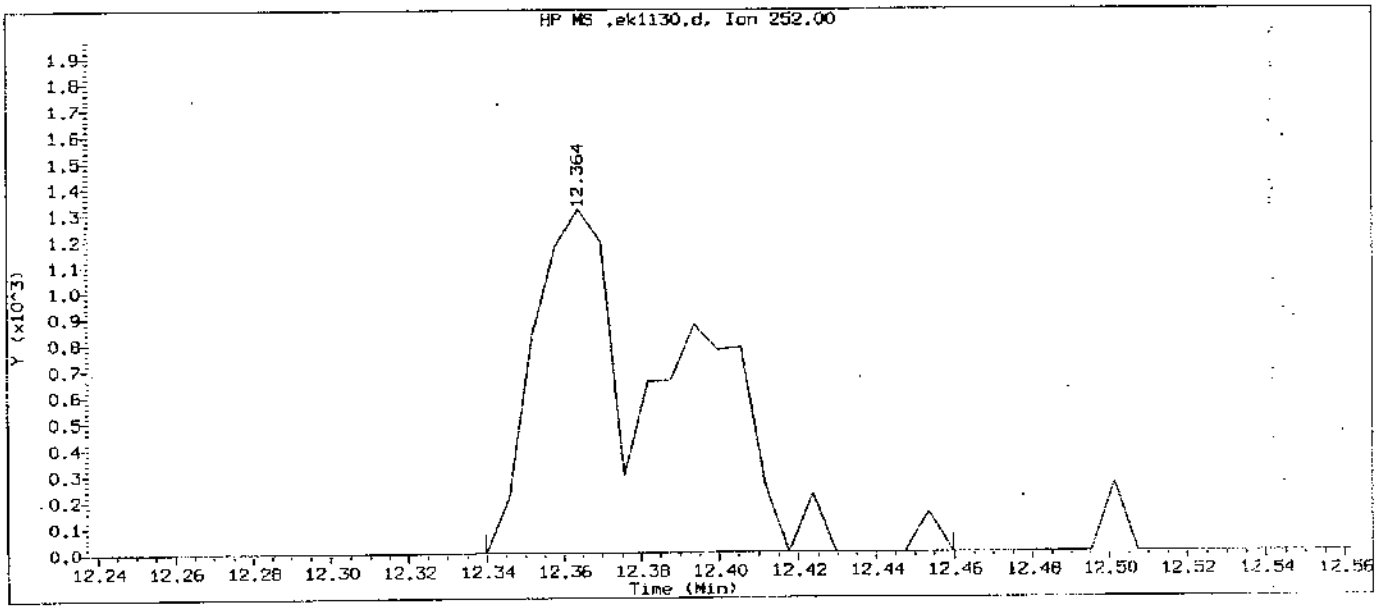
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1130.d, generated on 11/23/2011 at 08:53

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1130.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:32 Analyst ID: jrr02820

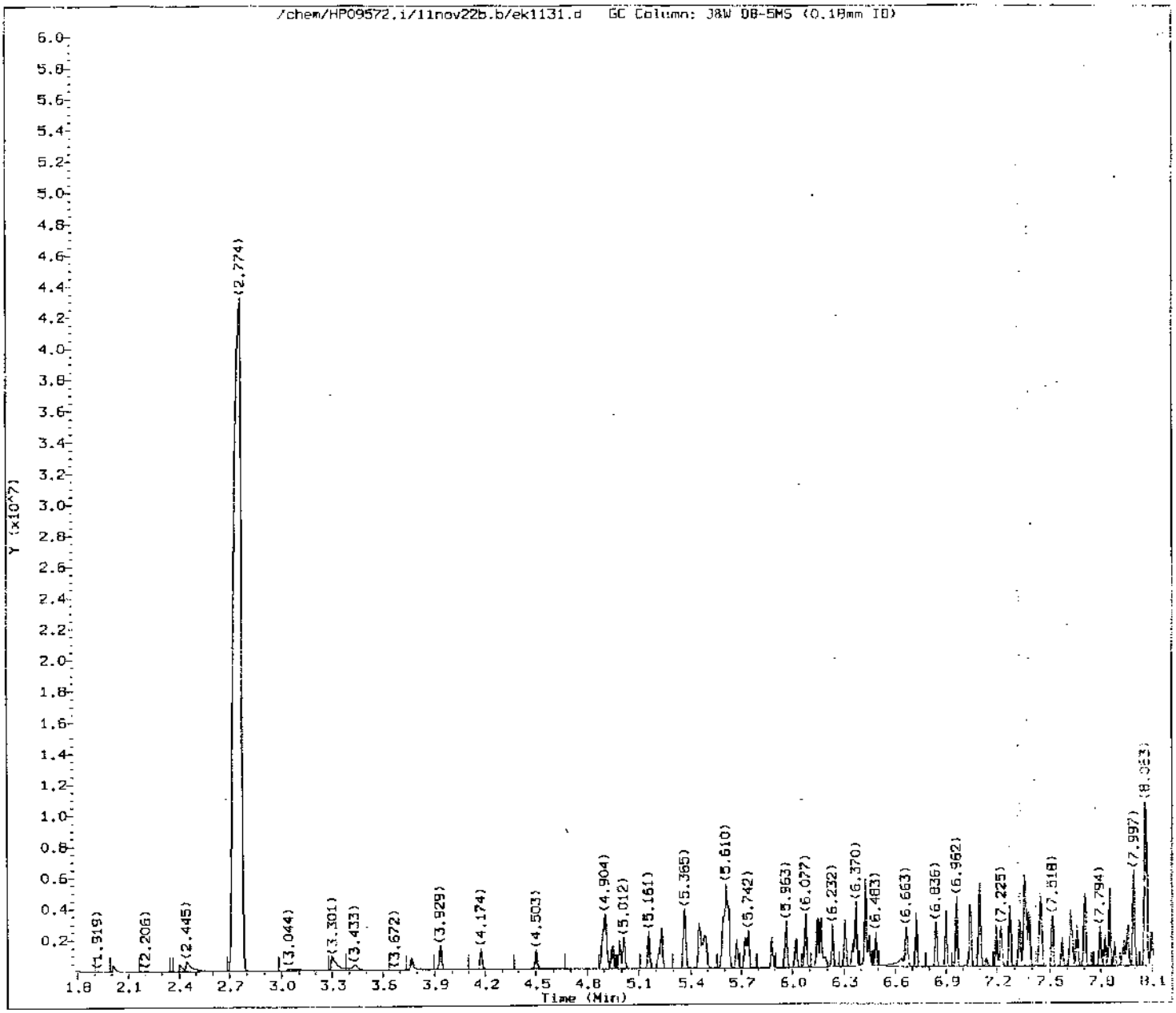
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: 0.1mdla111
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:40 msw02109

Sample Name: SSTD0.1 Lab Sample ID: STDMDL3191

Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1769
Retention Time (minutes)	:	12.364
Quant Ion	:	252
Area	:	3379
Concentration (ng/ul)	:	0.1403
Integration start scan	:	1764 Integration stop scan: 1784
Y at integration start	:	0 Y at integration end: 0

PCH89 0000

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1130.d, generated on 11/23/2011 at 08:53



Quant Report

Target Revision 3.5

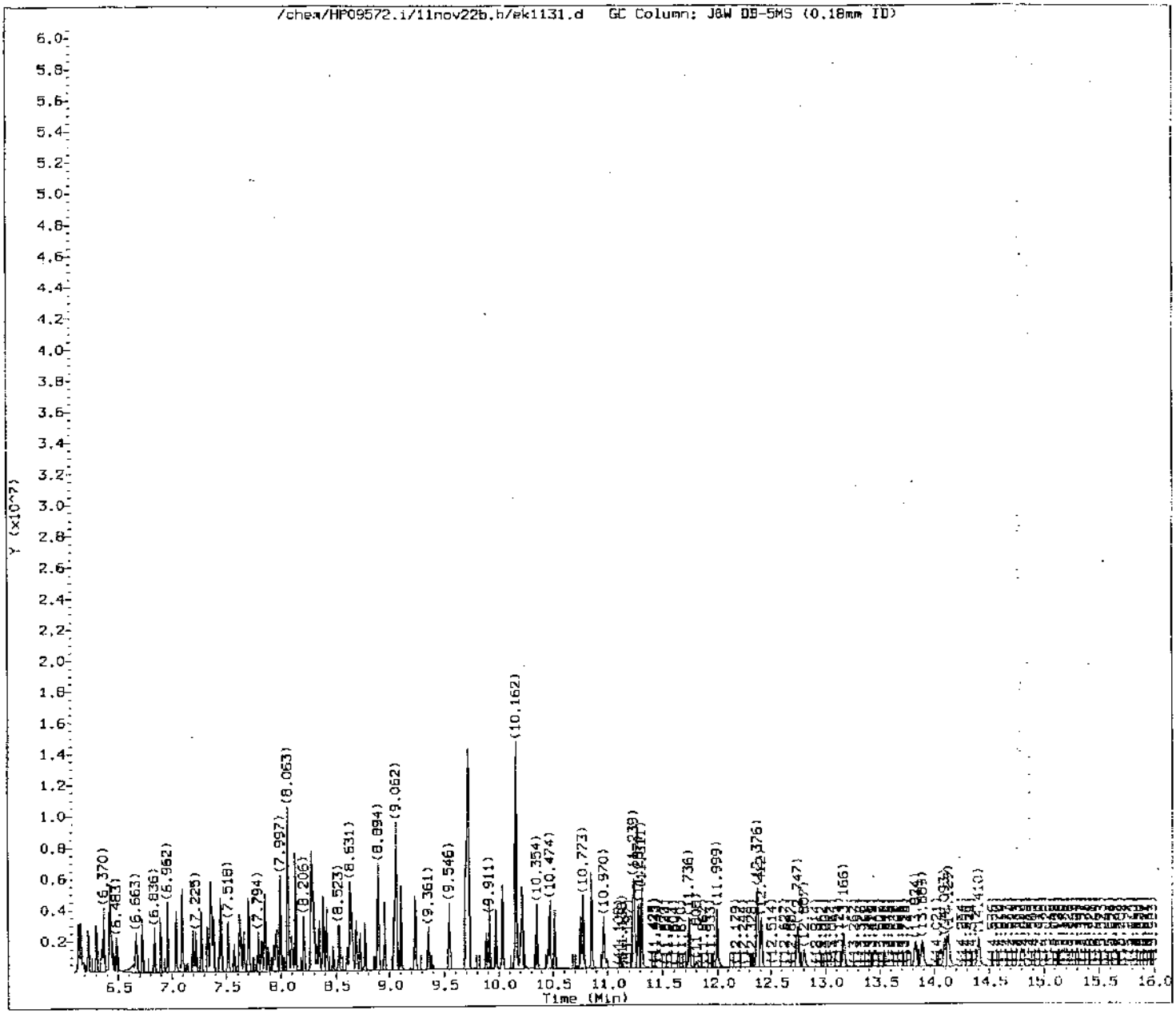
Data File: /chem/HP09572.i/11nov22b.b/ek1131.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newicval11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:59 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV2691

msw 2109 11/23/11

PCH89 8881



Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1131.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newicval11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:59 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV2691

PCH89 88882

11/28/11

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1131.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newicval11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:59 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV2691

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	2.009	88	170216	46.9632
2) N-Nitrosodimethylamine	(1)	2.404	74	298690	47.3062
3) Pyridine	(1)	2.445	79	485913	45.3856
5) 2-Picoline	(1)	3.301	93	531349	48.7854
6) N-Nitrosomethylethylamine	(1)	3.433	88	275840	50.1030
7) Methyl methanesulfonate	(1)	3.768	80	294703	55.9637
10) N-Nitrosodiethylamine	(1)	4.174	102	275234	50.8705
11) Ethyl methanesulfonate	(1)	4.503	109	269129	51.8927
13) Aniline	(1)	4.910	93	859474	48.8449
16) Phenol	(1)	4.904	94	770452	50.0045
18) bis(2-Chloroethyl)ether	(1)	4.988	93	541447	47.3994
19) 2-Chlorophenol	(1)	5.012	128	478314	48.8075
20) 1,3-Dichlorobenzene	(1)	5.161	146	476846	49.7981
21) 1,4-Dichlorobenzene-d4	(1)	5.215	152	120598	20.0000
22) 1,4-Dichlorobenzene	(1)	5.233	146	487248	49.3591
24) Benzyl alcohol	(1)	5.359	108	366618	48.4568
25) 1,2-Dichlorobenzene	(1)	5.365	146	457636	49.5844
26) 2-Methylphenol	(1)	5.466	108	503739	50.6777
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.490	45	859581	46.1344
28) bis(2-Chloroisopropyl)ether	(1)	5.490	45	859581	46.1344
29) N-Nitrosopyrrolidine	(1)	5.586	100	319119	53.3032
30) Acetophenone	(1)	5.598	105	710712	48.1550
31) N-Nitroso-di-n-propylamine	(1)	5.610	70	442458	49.0214
32) N-Nitrosomorpholine	(1)	5.622	56	398415	50.0068
33) 4-Methylphenol	(1)	5.610	108	591799	50.0462
34) o-Toluidine	(1)	5.628	106	836525	49.0829
37) Hexachloroethane	(1)	5.676	117	179180	47.3869
39) Nitrobenzene	(2)	5.742	77	582539	48.3680
40) N-Nitrosopiperidine	(2)	5.879	114	288026	53.0761
41) Isophorone	(2)	5.963	82	1098802	48.4661
42) 2-Nitrophenol	(2)	6.023	139	267696	50.8028
44) 2,4-Dimethylphenol	(2)	6.077	107	532540	49.9347
45) O,O,O-triethylphosphorothioate	(2)	6.148	198	240801	52.9224
46) bis(2-Chloroethoxy)methane	(2)	6.166	93	659132	45.4659
47) Benzoic acid	(2)	6.190	105	475856	48.3118
49) 2,4-Dichlorophenol	(2)	6.232	162	405604	51.2476
50) 1,2,4-Trichlorobenzene	(2)	6.304	180	421279	50.2130
52) Naphthalene-d8	(2)	6.352	136	544243	20.0000
53) Naphthalene	(2)	6.370	128	1436769	48.0766
56) 4-Chloroaniline	(2)	6.424	127	687911	52.2361
57) 2,6-Dichlorophenol	(2)	6.430	162	417239	52.7933
58) Hexachloropropene	(2)	6.448	213	223351	54.1296
60) Hexachlorobutadiene	(2)	6.483	225	172692	47.6048

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1131.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newicval11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:59 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV2691

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
64)	N-Nitrosodi-n-butylamine	(2)	6.723	84	437977	46.7691
68)	4-Chloro-3-methylphenol	(2)	6.836	107	504886	49.8784
69)	Safrole	(2)	6.896	162	404643	52.2780
70)	2-Methylnaphthalene	(2)	6.962	142	988685	48.9263
71)	1-Methylnaphthalene	(2)	7.040	142	928855	48.7980
72)	Hexachlorocyclopentadiene	(3)	7.100	237	370339	104.3092
73)	1,2,4,5-Tetrachlorobenzene	(3)	7.100	216	378134	48.4634
74)	cis-Isosafrole	(3)	7.141	162	75586	5.9470
75)	2,4,6-Trichlorophenol	(3)	7.195	196	298924	50.9529
77)	2,4,5-Trichlorophenol	(3)	7.225	196	317098	46.7114
79)	trans-Isosafrole	(3)	7.333	162	429754	46.8455
80)	Isosafrole	(3)	7.333	162	429754	52.6354
83)	1,1'-Biphenyl	(3)	7.357	154	1217010	49.1601
84)	2-Chloronaphthalene	(3)	7.369	162	888066	38.5423
85)	1-Chloronaphthalene	(3)	7.387	162	923944	47.6622
88)	Diphenyl ether	(3)	7.447	170	645567	48.9227
89)	2-Nitroaniline	(3)	7.453	138	360088	51.3055
90)	1,4-Naphthoquinone	(3)	7.518	158	521661	60.4093
91)	1,4-Dinitrobenzene	(3)	7.572	168	182785	50.7219
92)	Dimethylphthalate	(3)	7.620	163	1081713	47.6256
93)	1,3-Dinitrobenzene	(3)	7.632	168	220239	52.1156
94)	2,6-Dinitrotoluene	(3)	7.662	165	266409	50.1200
95)	Acenaphthylene	(3)	7.710	152	1471223	50.4092
97)	3-Nitroaniline	(3)	7.794	138	320362	51.0433
98)	Acenaphthene-d10	(3)	7.823	164	350068	20.0000
99)	Acenaphthene	(3)	7.853	153	937881	47.4970
100)	2,4-Dinitrophenol	(3)	7.883	184	160938	48.8462
101)	Pentachlorobenzene	(3)	7.961	250	314372	50.8695
103)	4-Nitrophenol	(3)	7.937	109	178979	53.6295
104)	Dibenzofuran	(3)	7.997	168	1366748	48.8543
105)	2,4-Dinitrotoluene	(3)	7.997	165	357334	49.1518
106)	1-Naphthylamine	(3)	8.063	143	2197543	97.0196
107)	2,3,4,6-Tetrachlorophenol	(3)	8.099	232	237905	52.0766
108)	2-Naphthylamine	(3)	8.129	143	2213920	96.4334
109)	Diethylphthalate	(3)	8.206	149	1062924	47.2233
110)	Thionazin	(3)	8.272	107	248416	52.1083
111)	Fluorene	(3)	8.278	166	1147221	49.2899
112)	4-Chlorophenyl-phenylether	(3)	8.284	204	506592	47.7549
113)	5-Nitro-o-toluidine	(3)	8.290	152	387063	52.3514
114)	4-Nitroaniline	(3)	8.302	138	342237	49.4622
115)	4,6-Dinitro-2-methylphenol	(4)	8.326	198	213663	49.4645
117)	N-Nitrosodiphenylamine	(4)	8.380	169	1022428	50.2082
118)	1,2-Diphenylhydrazine	(4)	8.416	77	1363831	48.3646

M = Compound was manually integrated. A = User selected an alternate hit

PCH89 #884

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1131.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newicval11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:59 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV2691

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
120)	Tetraethyldithiopyrophosphate	(4)	8.523	97	190072	49.6692
121)	1,3,5-Trinitrobenzene	(4)	8.601	213	141320	48.0271
122)	Diallate (peak 1)	(4)	8.625	86	521566	35.7799
123)	Phorate	(4)	8.631	75	916594	51.7599
124)	Phenacetin	(4)	8.649	108	687706	50.7419
125)	4-Bromophenyl-phenylether	(4)	8.685	248	238401	47.3794
126)	Diallate (peak 2)	(4)	8.697	86	108175	11.8910
127)	Hexachlorobenzene	(4)	8.721	284	224042	46.8270
128)	Dimethoate	(4)	8.769	87	535566	49.0534
129)	Diallate TRANS/CIS	(4)	23.156	86	629741	47.6820
131)	Pentachlorophenol	(4)	8.888	266	187959	53.3674
132)	Pentachloronitrobenzene	(4)	8.900	237	110542	52.5854
133)	4-Aminobiphenyl	(4)	8.894	169	1351138	72.6052
134)	Pronamide	(4)	8.954	173	513352	53.1241
135)	Phenanthrene-d10	(4)	9.044	188	610969	20.0000
136)	Dinoseb	(4)	9.044	211	317945	49.8722
137)	Phenanthrene	(4)	9.062	178	1611703	46.1383
138)	Anthracene	(4)	9.104	178	1668880	48.4301
140)	Carbazole	(4)	9.235	167	1658059	49.2103
141)	Methyl parathion	(4)	9.361	109	410093	52.0816
142)	Di-n-butylphthalate	(4)	9.546	149	1877955	48.0594
143)	Parathion	(4)	9.690	109	277968	53.3611
144)	4-Nitroquinoline-1-oxide	(4)	9.720	190	2842335	732.7710
146)	Isodrin	(4)	9.911	193	193300	52.5164
147)	Fluoranthene	(4)	10.037	202	1716502	51.0222
152)	Benzidine	(5)	10.162	184	5459119	242.6187
154)	Pyrene	(5)	10.216	202	1764975	47.2845
158)	p-Dimethylaminoazobenzene	(5)	10.474	225	381311	52.8443
159)	Chlorobenzilate	(5)	10.515	139	574152	52.9577
160)	3,3'-Dimethylbenzidine	(5)	10.749	212	970243	48.4205
161)	Butylbenzylphthalate	(5)	10.773	149	859892	49.7461
162)	2-Acetylaminofluorene	(5)	10.970	181	808572	54.5790
164)	3,3'-Dichlorobenzidine	(5)	11.233	252	482756	47.9356
165)	4,4'-Methylenebis(2-Chloroanil	(5)	11.239	231	260154	48.2517
166)	Benzo(a)anthracene	(5)	11.251	228	1448078	50.2587
167)	Pyrene-d10	(5)	10.204	212	682173	20.0000
168)	Chrysene	(5)	11.287	228	1482124	49.8862
169)	bis(2-Ethylhexyl)phthalate	(5)	11.311	149	1154717	50.2451
189)	6-Methylchrysene	(5)	11.742	242	1049654	50.5646
190)	Dibenz(a,h)acridine	(6)	13.824	279	836007	47.2086
170)	Di-n-octylphthalate	(6)	11.999	149	1876995	51.2685
191)	Dibenz(a,j)acridine	(6)	13.889	279	1056538	53.6706
171)	7,12-Dimethylbenz[a]anthracene	(6)	12.376	256	647402	49.4695

M = Compound was manually integrated. A = User selected an alternate hit

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11nov22b.b/ek1131.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:56 Analyst ID: jrr02820

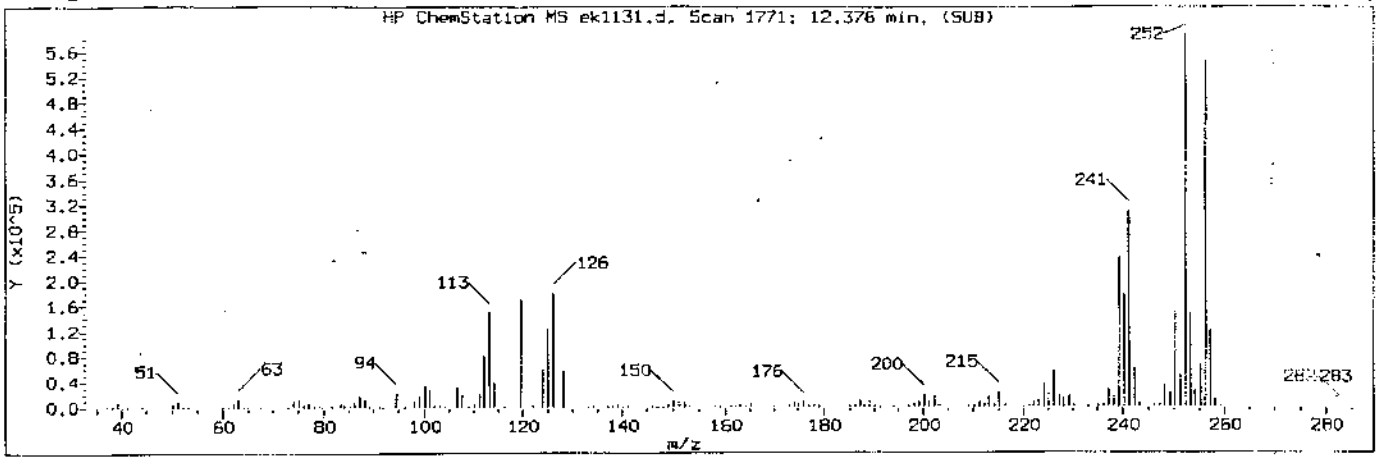
Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newicval11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:59 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV2691

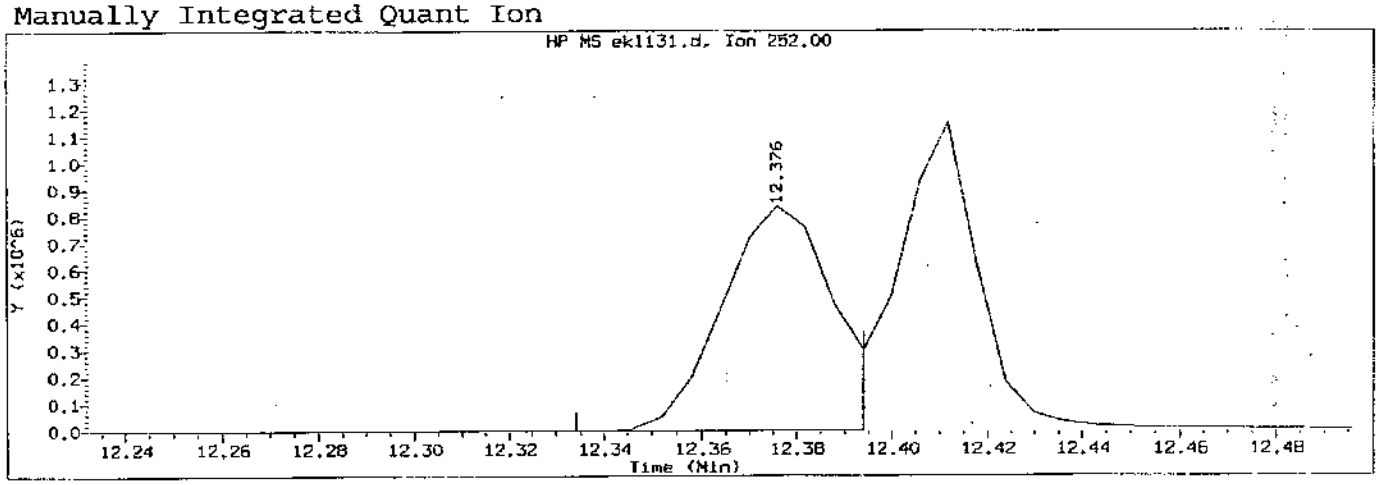
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
172)	Benzo(b)fluoranthene	(6)	12.376	252	1363130M	51.3387
194)	Quinoline	(2)	6.663	129	1024678	50.0461
173)	Benzo(k)fluoranthene	(6)	12.412	252	1355517M	50.4451
174)	Benzo(a)pyrene	(6)	12.747	252	1236699	52.6131
175)	Perylene-d12	(6)	12.807	264	446911	20.0000
202)	NDPA as diphenylamine	(4)	8.380	169	1022427	49.8363
176)	3-Methylcholanthrene	(6)	13.166	268	652088	50.6194
177)	Indeno(1,2,3-cd)pyrene	(6)	14.093	276	1253958	51.5088
178)	Dibenz(a,h)anthracene	(6)	14.129	278	1070552	51.3733
206)	Indene	(1)	5.449	115	737861	47.4241
179)	Benzo(g,h,i)perylene	(6)	14.410	276	1046523	50.3397
9)	2-Fluorophenol	(1)	3.935	112	441778	47.4518
14)	Phenol-d5	(1)	4.892	99	635960	47.2141
15)	Phenol-d6	(1)	4.892	99	635960	47.2141
38)	Nitrobenzene-d5	(2)	5.724	82	558197	47.2426
78)	2-Fluorobiphenyl	(3)	7.273	172	993436	46.8959
119)	2,4,6-Tribromophenol	(3)	8.470	330	101352	48.6257
156)	Terphenyl-d14	(5)	10.354	244	981777	47.7111

M = Compound was manually integrated. A = User selected an alternate hit

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1131.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newicval11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:59 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV2691

Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1771
Retention Time (minutes): 12.376
Quant Ion : 252
Area (flag) : 1363130 M
Concentration (ng/ul) : 51.3387
Integration start scan : 1763 Integration stop scan: 1773
Y at integration start : 0 Y at integration end: 600

Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Msw2107 11/29/11

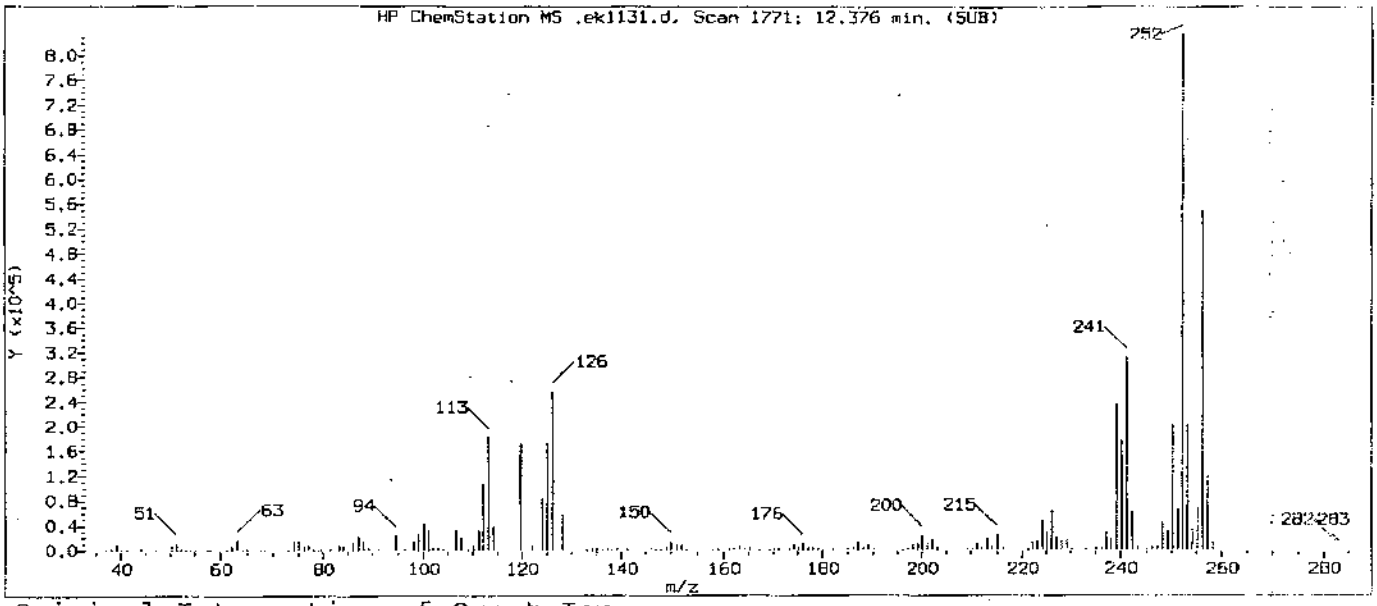
GC/MS audit/management approval: _____ PCH09 8867

NOV 25 2011

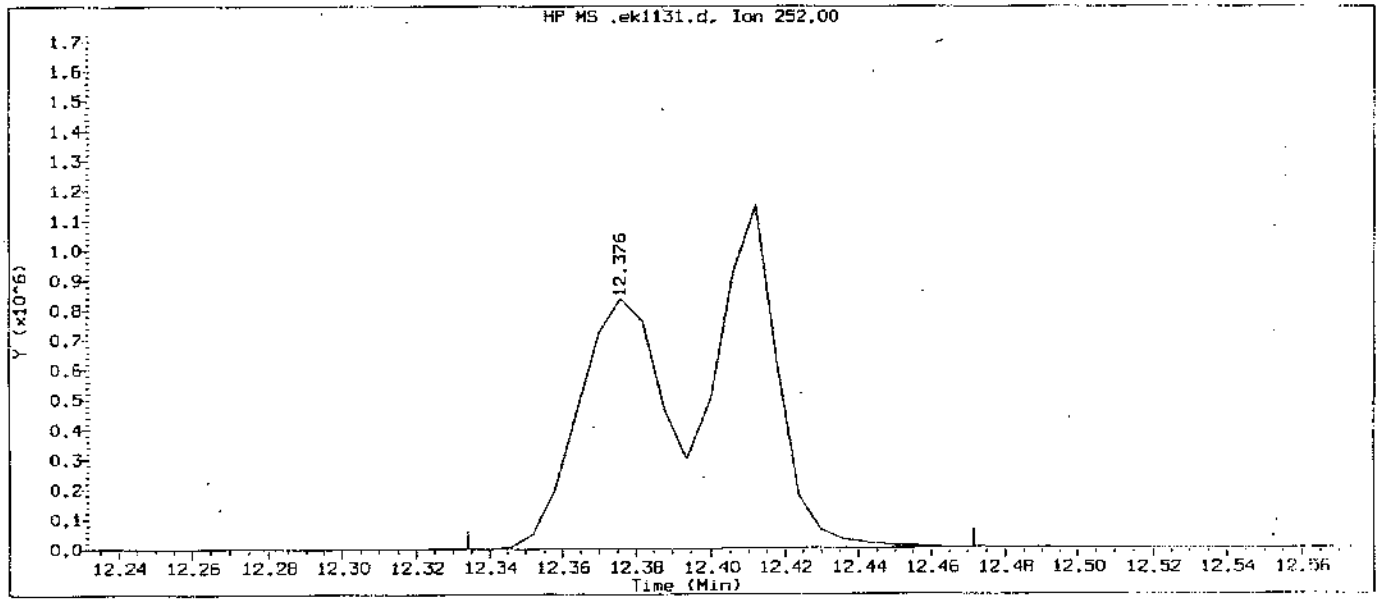
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1131.d, generated on 11/23/2011 at 08:59

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1131.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newicval11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:56 msw02109

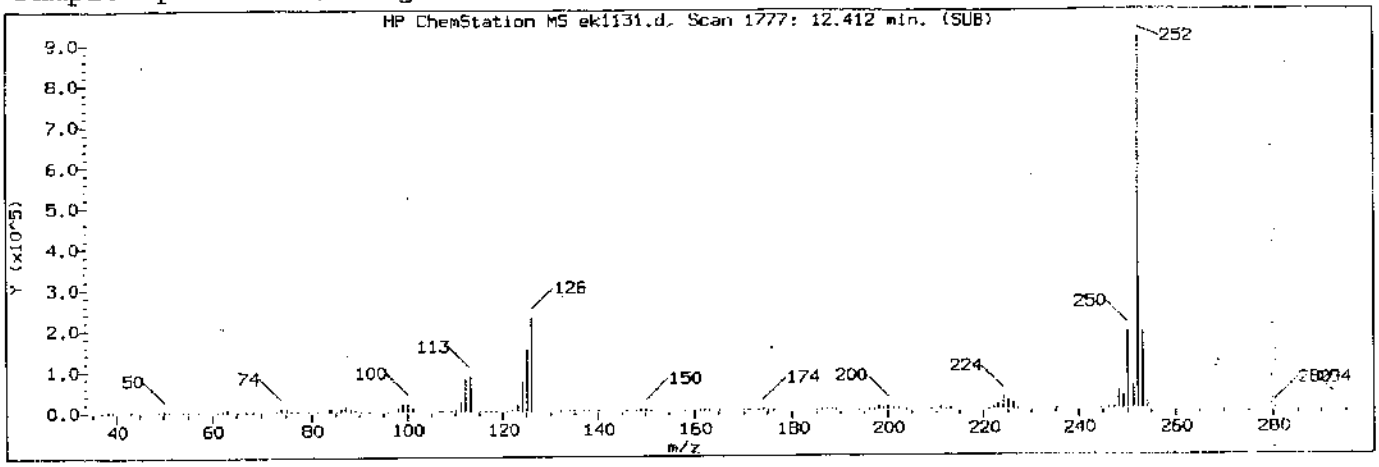
Sample Name: SSTD050 Lab Sample ID: ICV2691

Compound Number	:	172
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1771
Retention Time (minutes)	:	12.376
Quant Ion	:	252
Area	:	2627434
Concentration (ng/ul)	:	98.9551
Integration start scan	:	1763 Integration stop scan: 1786
Y at integration start	:	0 Y at integration end: 1381

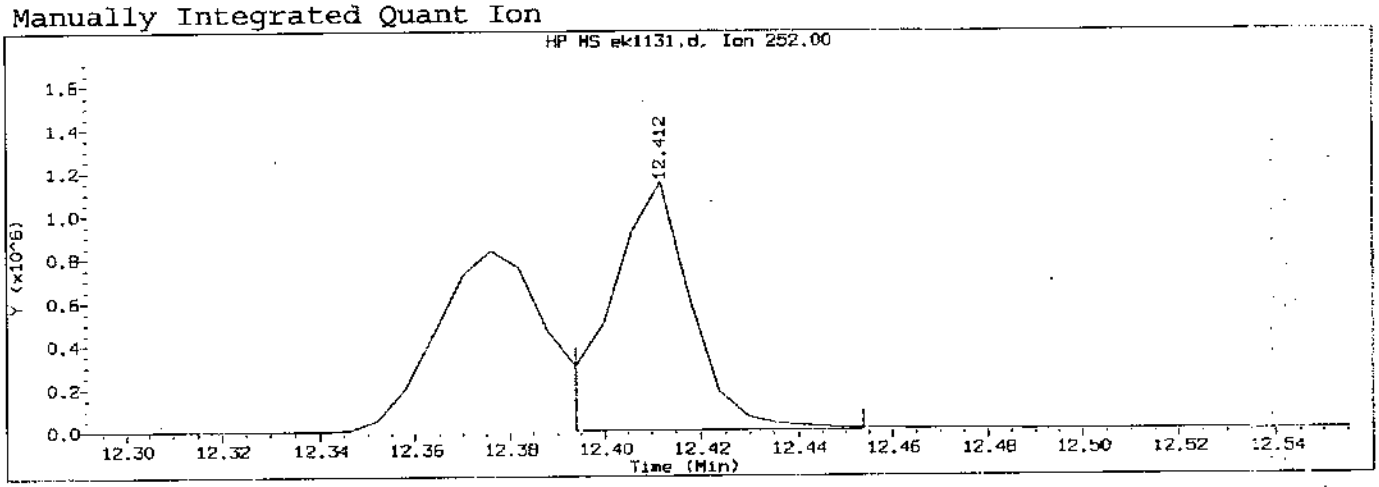
PCH09 8868

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1131.d, generated on 11/23/2011 at 08:59

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1131.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newicval11
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:59 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV2691

Compound Number	: 173		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1777		
Retention Time (minutes)	: 12.412		
Quant Ion	: 252		
Area (flag)	: 1355517	M	
Concentration (ng/ul)	: 50.4451		
Integration start scan	: 1773	Integration stop scan:	1783
Y at integration start	: 3552	Y at integration end:	3552

Reason for manual integration (circle one): missed peak improper integration

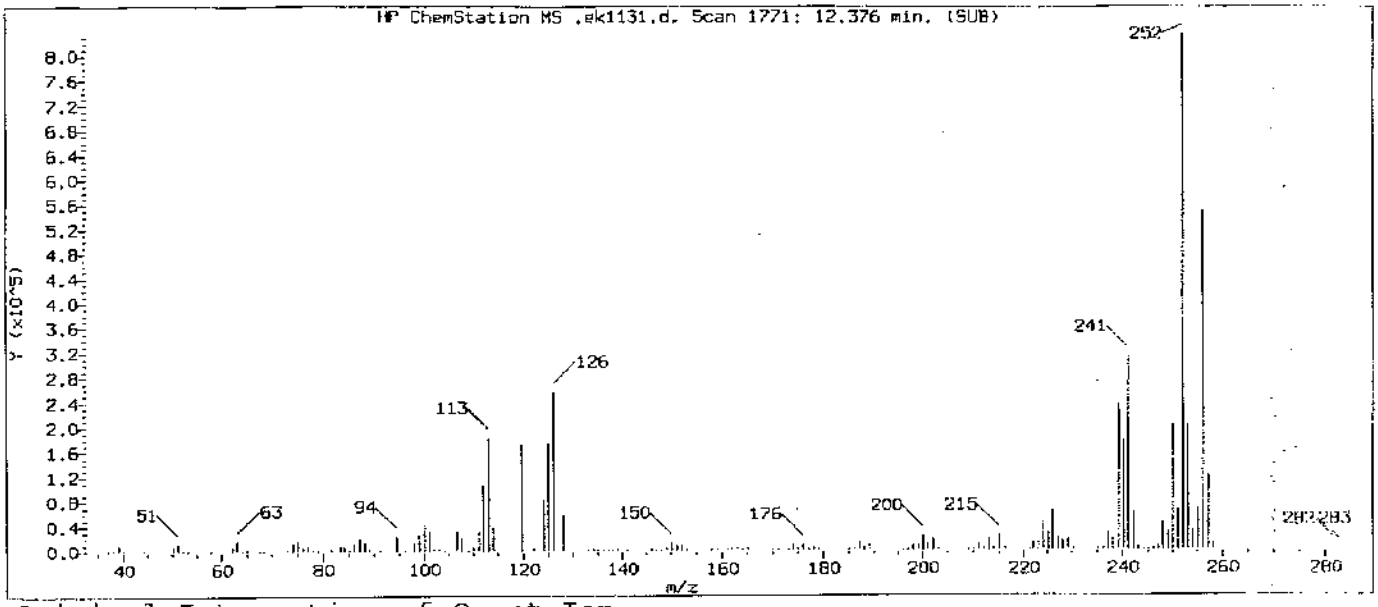
Analyst responsible for change: 11/23/11

GC/MS audit/management approval: NOV 25 2011 PCH69 0069

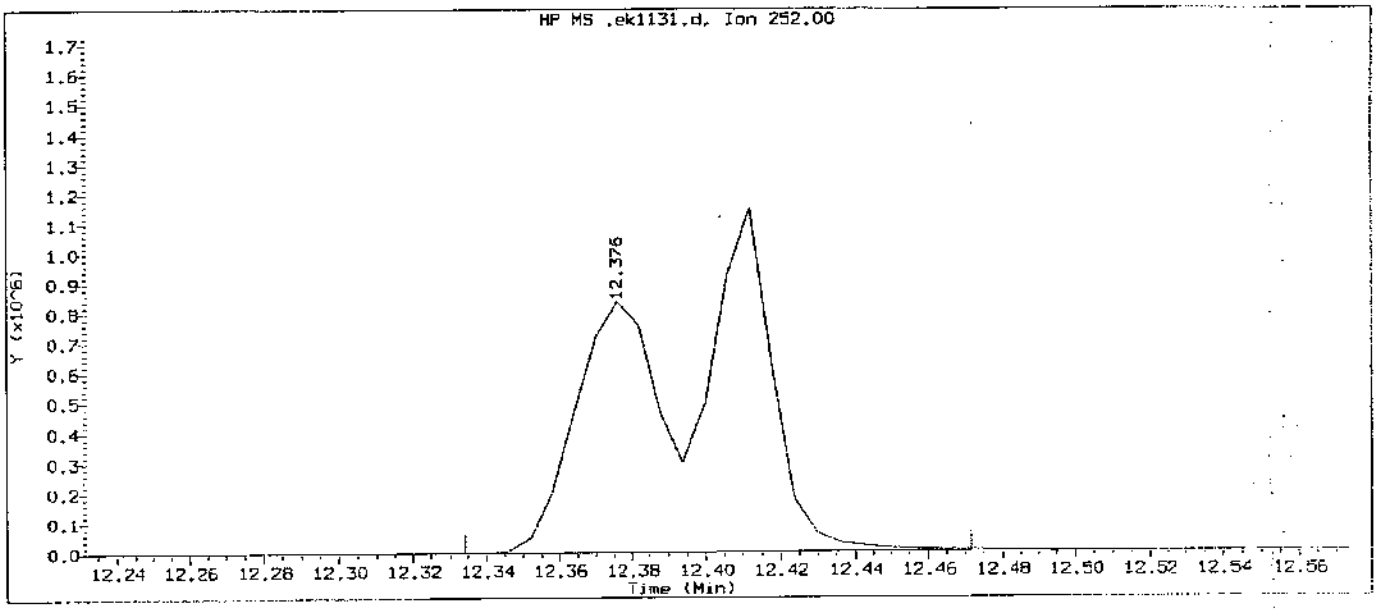
Manual Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1131.d, generated on 11/23/2011 at 08:59

Matthew E. Barton
Senior Specialist

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11nov22b.b/ek1131.d Instrument ID: HP09572.i
Injection date and time: 23-NOV-2011 01:56 Analyst ID: jrr02820

Method used: /chem/HP09572.i/11nov22b.b/mnew8270.m Sublist used: newicvall1
Calibration date and time: 23-NOV-2011 08:32
Date, time and analyst ID of latest file update: 23-Nov-2011 08:56 msw02109

Sample Name: SSTD050 Lab Sample ID: ICV2691

Compound Number	:	173
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1771
Retention Time (minutes)	:	12.376
Quant Ion	:	252
Area	:	2627434
Concentration (ng/ul)	:	97.7789
Integration start scan	:	1763 Integration stop scan: 1786
Y at integration start	:	0 Y at integration end: 1381

PCH09 6816

Original Integration Report for data file /chem/HP09572.i/11nov22b.b/ek1131.d, generated on 11/23/2011 at 08:59

Data File: /chem/HP09572.i/11dec05.b/el0200.d

Date : 05-DEC-2011 07:58

Client ID: DFTPP

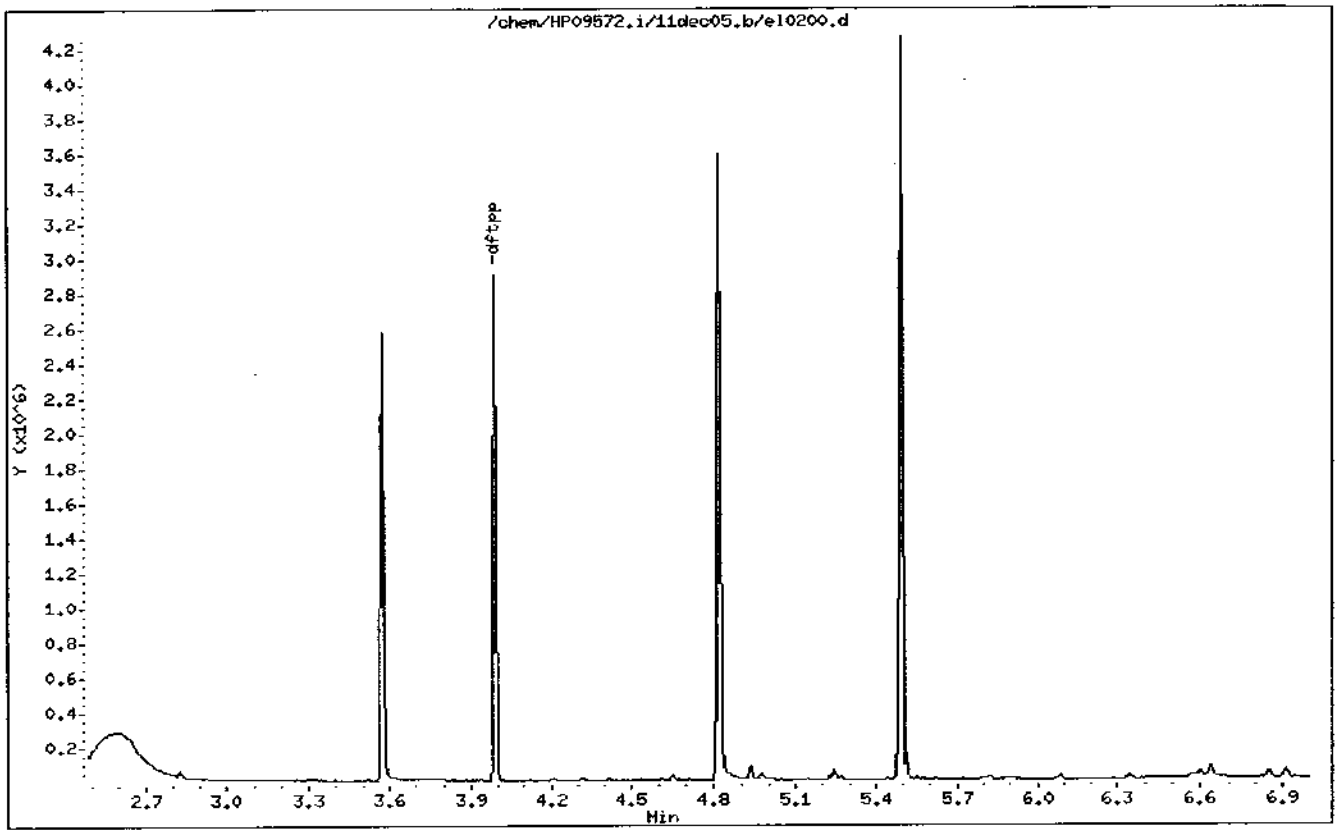
Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP3131;

Operator: msw02109

Column phase: DB-5

Column diameter: 0.25



PCH09 6811

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Data File: /chem/HP09572.i/11dec05.b/el0200.d

Date : 05-DEC-2011 07:58

Client ID: DFTPP

Instrument: HP09572.i

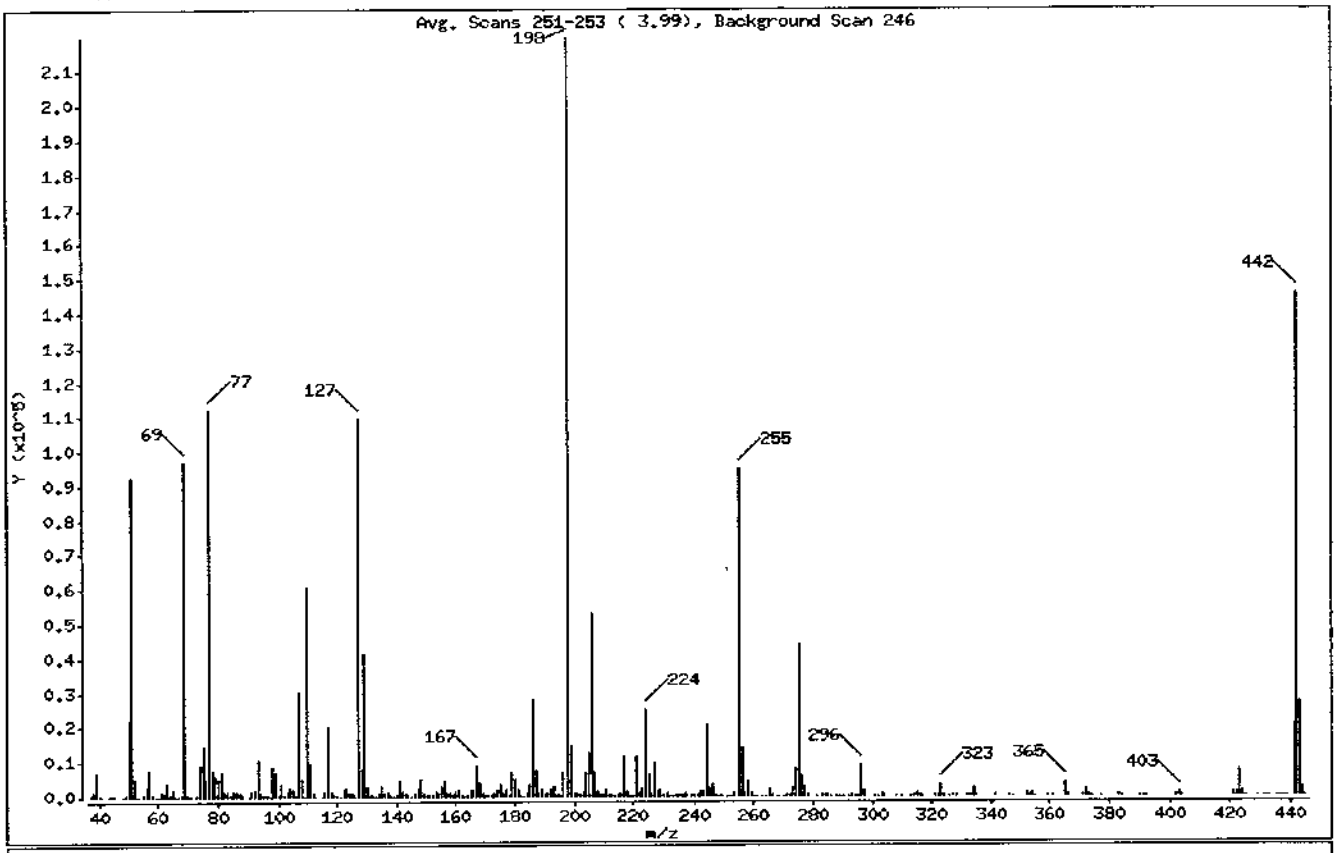
Sample Info: DFTPP;8270DFTPP3131;

Operator: msw02109

Column phase: DB-5

Column diameter: 0.25

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	42.11
68	Less than 2.00% of mass 69	0.18 (0.42)
69	Mass 69 relative abundance	44.23
70	Less than 2.00% of mass 69	0.23 (0.51)
127	40.00 - 60.00% of mass 198	49.96
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 30.00% of mass 198	20.04
365	Greater than 1.00% of mass 198	1.88
441	Present, but less than mass 443	9.32
442	40.00 - 99.99% of mass 198	66.11
443	17.00 - 23.00% of mass 442	12.39 (18.75)

PCHB9 8812

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Data File: /chem/HP09572.i/11dec05.b/el0200.d

Date : 05-DEC-2011 07:58

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP3131;

Operator: msw02109

Column phase: DB-5

Column diameter: 0.25

Data File: el0200.d

Spectrum: Avg. Scans 251-253 (3.99), Background Scan 246

Location of Maximum: 198.00

Number of points: 307

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	366	121.00	125	199.00	14583	285.00	647
38.00	1296	122.00	1849	200.00	1150	286.00	95
39.00	6994	123.00	2675	201.00	1043	288.00	69
40.00	268	124.00	1245	202.00	356	289.00	120
41.00	223	125.00	1077	203.00	1549	290.00	138
43.00	88	126.00	177	204.00	7147	292.00	60
44.00	264	127.00	109824	205.00	12480	293.00	754
45.00	371	128.00	8247	206.00	52912	294.00	217
48.00	115	129.00	41616	207.00	6876	295.00	169
49.00	614	130.00	3144	208.00	1654	296.00	9020
50.00	22232	131.00	660	209.00	528	297.00	1307
51.00	92576	132.00	393	210.00	428	301.00	189
52.00	5056	133.00	209	211.00	1996	302.00	60
53.00	108	134.00	1049	212.00	672	303.00	1012
55.00	512	135.00	2882	213.00	267	304.00	468
56.00	2912	136.00	1190	214.00	69	308.00	125
57.00	7478	137.00	1674	215.00	559	310.00	112
58.00	427	138.00	456	216.00	923	313.00	57
59.00	142	139.00	190	217.00	11743	314.00	470
60.00	87	140.00	527	218.00	1509	315.00	890
61.00	1367	141.00	4699	219.00	126	316.00	738
62.00	1226	142.00	1728	220.00	189	317.00	79
63.00	3974	143.00	1131	221.00	11659	321.00	319
64.00	373	144.00	428	222.00	903	322.00	271
65.00	1862	145.00	168	223.00	2475	323.00	3630
66.00	158	146.00	955	224.00	25320	324.00	713
67.00	150	147.00	2508	225.00	6490	326.00	125
68.00	405	148.00	5114	226.00	883	327.00	619
69.00	97232	149.00	1229	227.00	9550	328.00	277
70.00	498	150.00	337	228.00	1350	332.00	310
71.00	38	151.00	683	229.00	2215	333.00	266
73.00	730	152.00	730	230.00	408	334.00	2337
74.00	9319	153.00	1437	231.00	973	335.00	716
75.00	14889	154.00	1160	232.00	147	341.00	345
76.00	5101	155.00	3105	233.00	168	346.00	585

PCH89 8R13

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Data File: /chem/HP09572.i/11dec05.b/el0200.d

Date : 05-DEC-2011 07:58

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP3131;

Operator: msw02109

Column phase: DB-5

Column diameter: 0.25

Data File: el0200.d

Spectrum: Avg. Scans 251-253 (3.99), Background Scan 246

Location of Maximum: 198.00

Number of points: 307

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	112096	156.00	4426	234.00	738	347.00	144
78.00	7665	157.00	869	235.00	702	352.00	965
79.00	6275	158.00	896	236.00	343	353.00	671
80.00	5285	159.00	654	237.00	975	354.00	1089
81.00	7258	160.00	1465	239.00	418	355.00	179
82.00	1749	161.00	1985	240.00	296	359.00	50
83.00	1709	162.00	573	241.00	725	361.00	62
84.00	261	163.00	220	242.00	1288	365.00	4143
85.00	1331	164.00	458	243.00	1413	366.00	453
86.00	1674	165.00	2120	244.00	20944	371.00	324
87.00	791	166.00	1803	245.00	2762	372.00	2024
88.00	454	167.00	9253	246.00	3529	373.00	581
90.00	116	168.00	4254	247.00	673	374.00	99
91.00	1598	169.00	1023	248.00	162	377.00	112
92.00	1829	170.00	313	249.00	750	383.00	448
93.00	10366	171.00	528	251.00	152	384.00	108
94.00	796	172.00	744	252.00	183	390.00	146
95.00	275	173.00	1101	253.00	884	391.00	155
96.00	359	174.00	1804	255.00	95080	392.00	102
97.00	64	175.00	3659	256.00	14074	402.00	666
98.00	8668	176.00	1206	257.00	942	403.00	889
99.00	6925	177.00	2010	258.00	4772	404.00	477
100.00	527	178.00	698	259.00	973	421.00	1097
101.00	3778	179.00	7017	260.00	142	422.00	841
102.00	275	180.00	4934	261.00	164	423.00	7446
103.00	1497	181.00	1858	263.00	80	424.00	1641
104.00	2456	182.00	392	264.00	228	425.00	166
105.00	2097	183.00	200	265.00	2273	429.00	53
106.00	722	184.00	786	266.00	337	431.00	79
107.00	30104	185.00	3562	268.00	235	432.00	87
108.00	4982	186.00	28416	270.00	104	433.00	165
109.00	87	187.00	7608	271.00	284	435.00	65
110.00	60688	188.00	895	272.00	371	436.00	137
111.00	9351	189.00	1937	273.00	2545	437.00	165
112.00	1128	190.00	379	274.00	8144	438.00	59

PCH09 8814

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Data File: /chem/HP09572.i/11dec05.b/el0200.d

Date : 05-DEC-2011 07:58

Client ID: DFTPP

Instrument: HP09572.i

Sample Info: DFTPP;8270DFTPP3131;

Operator: msw02109

Column phase: DB-5

Column diameter: 0.25

Data File: el0200.d

Spectrum: Avg. Scans 251-253 (3.99), Background Scan 246

Location of Maximum: 198.00

Number of points: 307

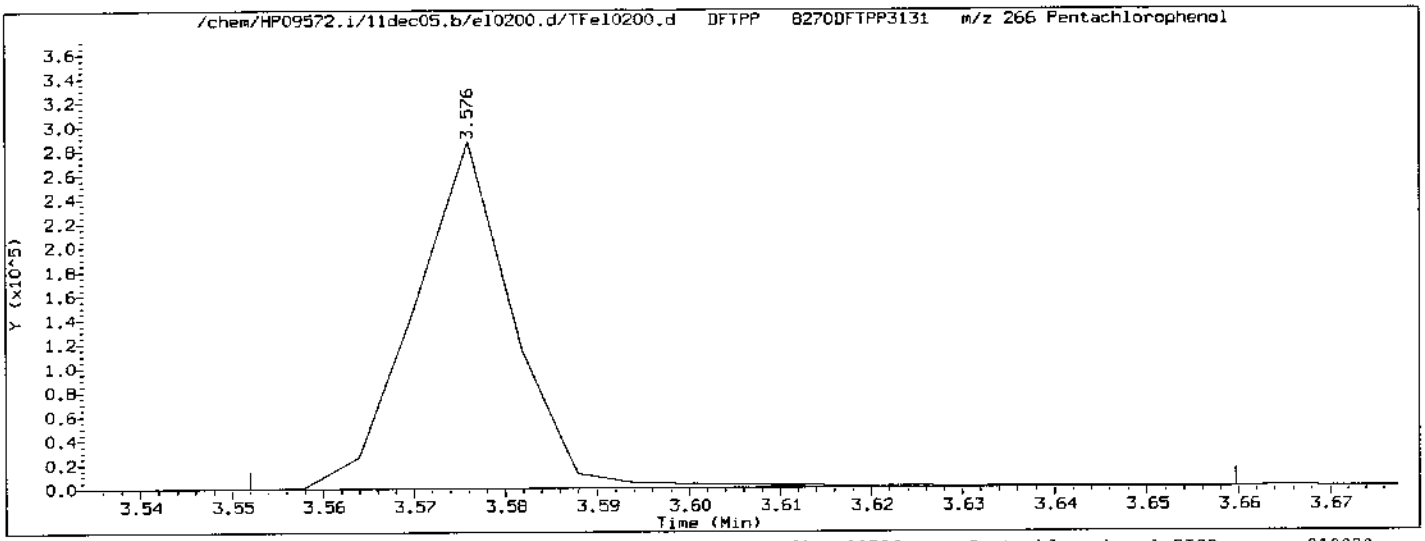
m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	215	191.00	890	275.00	44056	439.00	100
115.00	246	192.00	2008	276.00	6281	441.00	20480
116.00	1740	193.00	2817	277.00	2973	442.00	145344
117.00	20256	194.00	552	278.00	621	443.00	27248
118.00	1654	195.00	559	281.00	52	444.00	2329
119.00	304	196.00	6878	283.00	417	445.00	136
120.00	256	198.00	219840	284.00	327		

PCH89 0015

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Assessment of GC Column Performance and Injection Port Inertness for

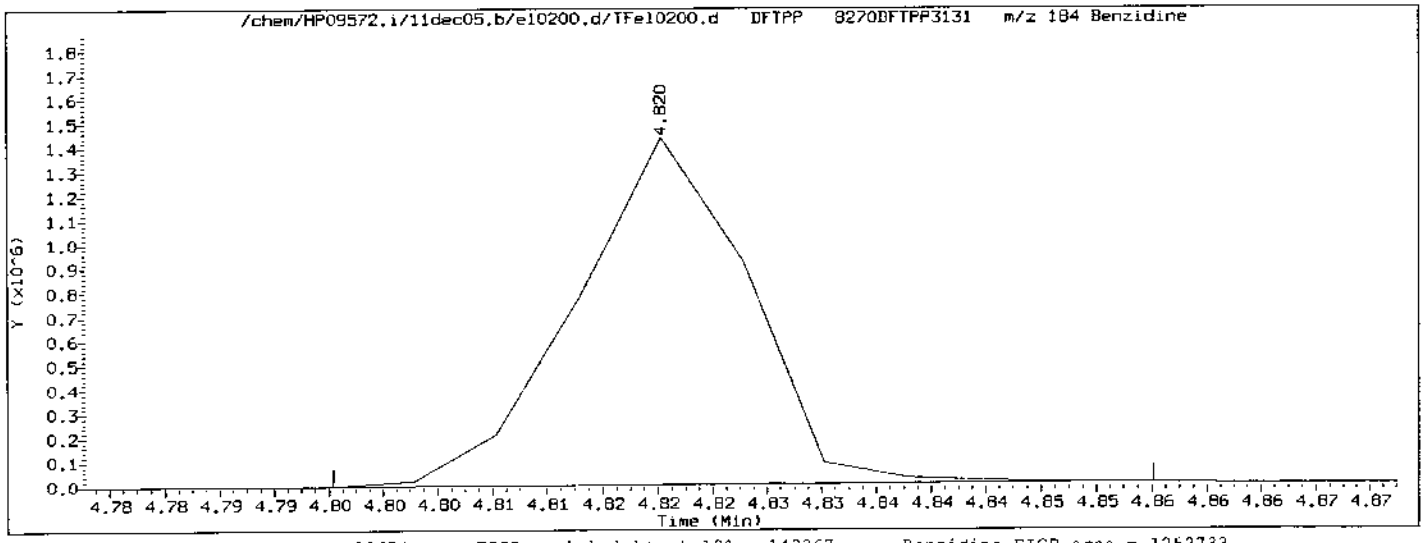
Instrument ID: HP09572.i Injection Date: 05-DEC-2011 07:58 Operator: msw02109



Pentachlorophenol EICP peak height = 287360 EICP peak height at 10% = 28736 Pentachlorophenol EICP area = 218270

Pentachlorophenol EICP peak apex (min.) = 3.576
RT at 10% of front half of EICP (min.) = 3.564 'Front' peak width (min.) = 0.0118166667
RT at 10% of back half of EICP (min.) = 3.587 'Tailing' peak width (min.) = 0.0109833333

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0109833333}{0.0118166667} = 0.929$



Benzidine EICP peak height = 1432674 EICP peak height at 10% = 143267 Benzidine EICP area = 1252733

Benzidine EICP peak apex (min.) = 4.820
RT at 10% of front half of EICP (min.) = 4.806 'Front' peak width (min.) = 0.0140000000
RT at 10% of back half of EICP (min.) = 4.832 'Tailing' peak width (min.) = 0.0115833333

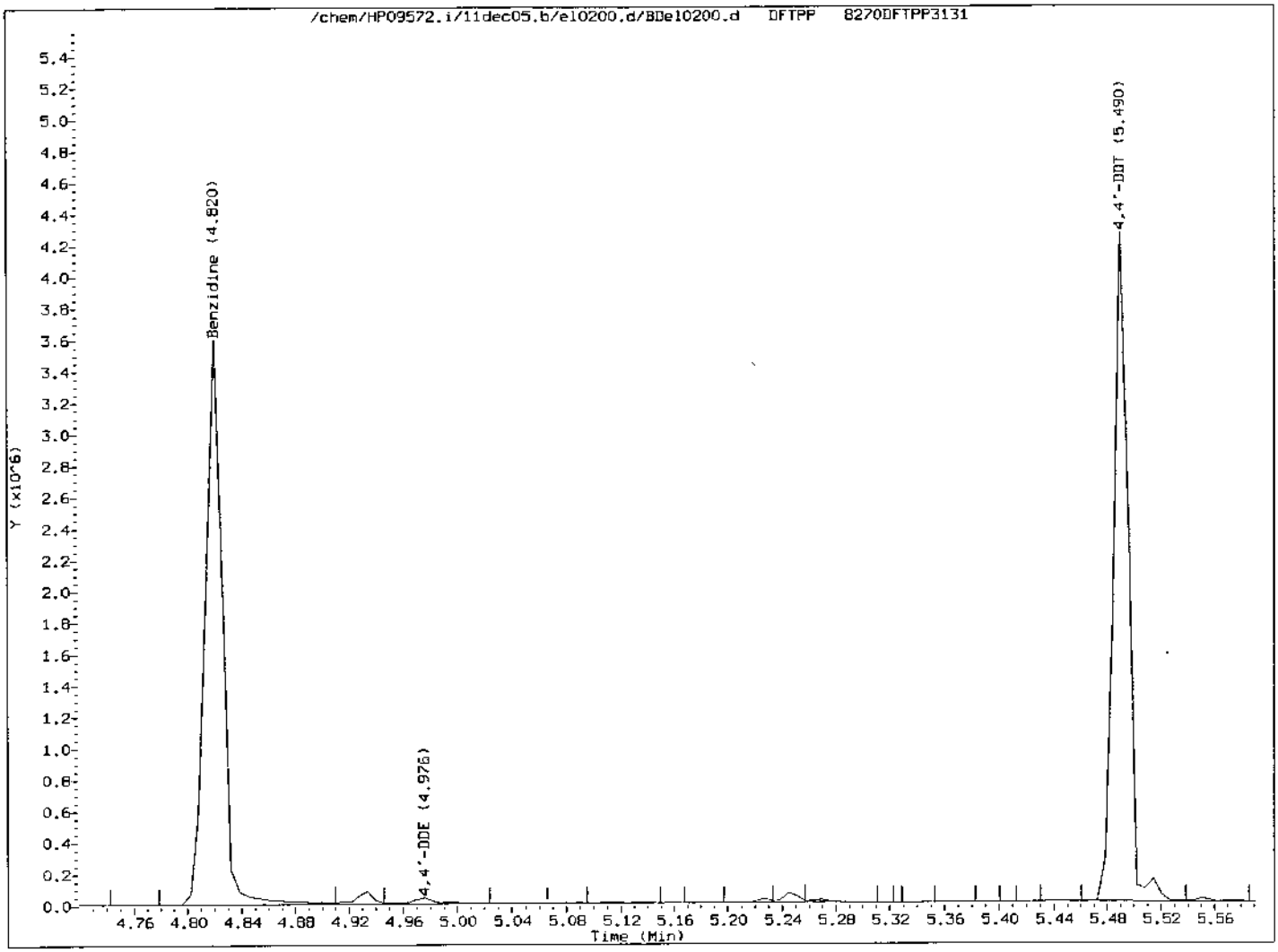
Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0115833333}{0.0140000000} = 0.827$

PCH89 8816

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP09572.i Injection Date: 05-DEC-2011 07:58 Operator: msw02109

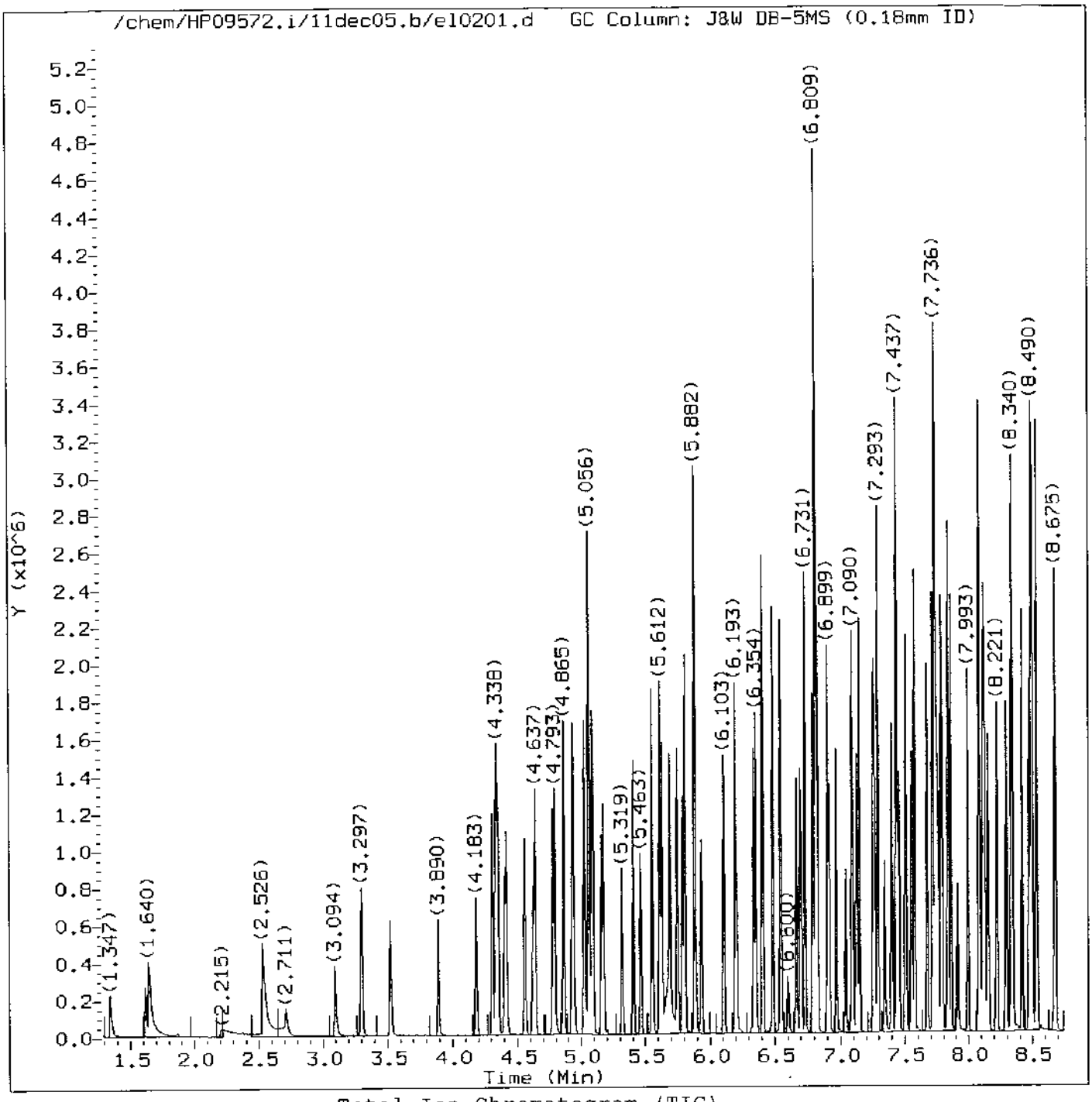


$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{52315 + 288833}{52315 + 288833 + 3299981} \times 100 = 9.4$$

printed on 12/05/2011 at 09:19
PCH09 0017

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

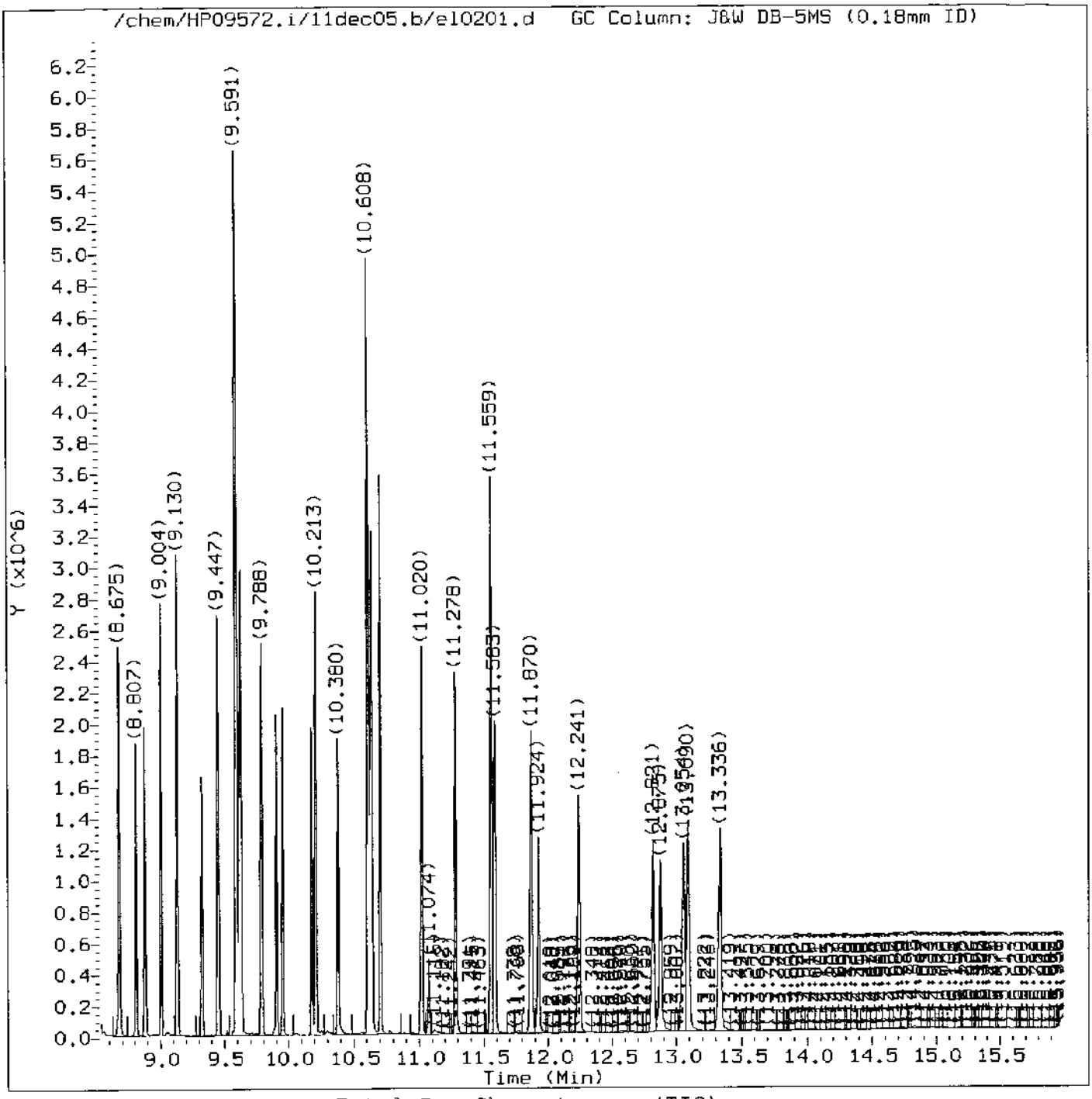
Data File: /chem/HP09572.i/11dec05.b/el0201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

PCH09 8818

Digitally signed by Matthew S. Woods
on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

PCH89 8819

Digitally signed by Matthew S. Woods
on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
1) 1,4-Dioxane	(1)	1.347	88	88071	29.030
2) N-Nitrosodimethylamine	(1)	1.610	74	126919	24.015
3) Pyridine	(1)	1.640	79	245933	27.444
5) 2-Picoline	(1)	2.526	93	281468	30.875
6) N-Nitrosomethylethylamine	(1)	2.711	88	117861	25.576
7) Methyl methanesulfonate	(1)	3.094	80	139090	31.556
9)$2-Fluorophenol	(1)	3.297	112	230462	29.574
10) N-Nitrosodiethylamine	(1)	3.525	102	130953	28.916
11) Ethyl methanesulfonate	(1)	3.890	109	131720	30.343
13) Aniline	(1)	4.308	93	418440	28.411
15)$Phenol-d6	(1)	4.338	99	330169	29.285
14)$Phenol-d5	(1)	4.338	99	330169	29.285
16) Phenol	(1)	4.350	94	349172	27.075
18) bis(2-Chloroethyl)ether	(1)	4.404	93	271140	28.358
19) 2-Chlorophenol	(1)	4.416	128	250840	30.580
20) 1,3-Dichlorobenzene	(1)	4.560	146	241479	30.129
21)*1,4-Dichlorobenzene-d4	(1)	4.619	152	100943	20.000
22) 1,4-Dichlorobenzene	(1)	4.637	146	252135	30.515
25) 1,2-Dichlorobenzene	(1)	4.775	146	236432	30.605
24) Benzyl alcohol	(1)	4.793	108	171290	27.048
206) Indene	(1)	4.865	115	391550	30.066
28) bis(2-Chloroisopropyl)ether	(1)	4.925	45	371469	23.819
27) 2,2'-oxybis(1-Chloropropane)	(1)	4.925	45	371469	23.819
26) 2-Methylphenol	(1)	4.942	108	241691	29.049
29) N-Nitrosopyrrolidine	(1)	5.020	100	153139	30.560
30) Acetophenone	(1)	5.026	105	356605	28.867
31) N-Nitroso-di-n-propylamine	(1)	5.056	70	204173	27.026
34) o-Toluidine	(1)	5.062	106	408745	28.653
32) N-Nitrosomorpholine	(1)	5.062	56	176051	26.400
33) 4-Methylphenol	(1)	5.086	108	267003	26.976
37) Hexachloroethane	(1)	5.092	117	90412	28.567
38)$Nitrobenzene-d5	(2)	5.158	82	277052	27.011
39) Nitrobenzene	(2)	5.176	77	281069	26.883
40) N-Nitrosopiperidine	(2)	5.319	114	139046	29.516
41) Isophorone	(2)	5.409	82	529608	26.909
42) 2-Nitrophenol	(2)	5.463	139	146865	32.106
44) 2,4-Dimethylphenol	(2)	5.553	107	273489	29.540
45) O,O,O-triethylphosphorothioate	(2)	5.612	198	124955	31.634
46) bis(2-Chloroethoxy)methane	(2)	5.630	93	338096A	26.864
47) Benzoic acid	(2)	5.684	105	279862	32.730

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

PCH89 8826

Digitally signed by Matthew S. Woods
on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0201.d
Injection date and time: 05-DEC-2011 08:17
Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030
Lab Sample ID: STD3321

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
49) 2,4-Dichlorophenol	(2)	5.696	162	208746	30.382
50) 1,2,4-Trichlorobenzene	(2)	5.750	180	221644	30.432
52)*Naphthalene-d8	(2)	5.792	136	472463	20.000
53) Naphthalene	(2)	5.810	128	750041	28.911
56) 4-Chloroaniline	(2)	5.882	127	329619	28.832
57) 2,6-Dichlorophenol	(2)	5.888	162	208765	30.428
58) Hexachloropropene	(2)	5.888	213	112107	31.297
60) Hexachlorobutadiene	(2)	5.936	225	95389	30.290
194) Quinoline	(2)	6.103	129	544895	30.656
64) N-Nitrosodi-n-butylamine	(2)	6.193	84	271248	31.862
63) Caprolactam	(2)	6.211	113	118191	31.250
68) 4-Chloro-3-methylphenol	(2)	6.336	107	258199	29.383
69) Safrole	(2)	6.354	162	204762	30.473
70) 2-Methylnaphthalene	(2)	6.408	142	518703	29.568
71) 1-Methylnaphthalene	(2)	6.486	142	498543	30.170
72) Hexachlorocyclopentadiene	(3)	6.546	237	91160	29.149
73) 1,2,4,5-Tetrachlorobenzene	(3)	6.552	216	206401	30.032
74) cis-Isosafrole	(3)	6.600	162	37901	3.385
75) 2,4,6-Trichlorophenol	(3)	6.665	196	156889	30.360
77) 2,4,5-Trichlorophenol	(3)	6.695	196	177264	29.645
78)$2-Fluorobiphenyl	(3)	6.731	172	542037	29.049
80) Isosafrole	(3)	6.791	162	202279	28.126
79) trans-Isosafrole	(3)	6.791	162	202279	25.032
83) 1,1'-Biphenyl	(3)	6.809	154	648139	29.723
84) 2-Chloronaphthalene	(3)	6.809	162	641786M	31.622
85) 1-Chloronaphthalene	(3)	6.827	162	489884M	28.690
88) Diphenyl ether	(3)	6.899	170	341780	29.405
89) 2-Nitroaniline	(3)	6.917	138	193038	31.225
90) 1,4-Naphthoquinone	(3)	6.970	158	227387	29.894
91) 1,4-Dinitrobenzene	(3)	7.042	168	100573A	31.684
92) Dimethylphthalate	(3)	7.090	163	594253	29.703
93) 1,3-Dinitrobenzene	(3)	7.096	168	119318	32.054
94) 2,6-Dinitrotoluene	(3)	7.126	165	149613	31.955
95) Acenaphthylene	(3)	7.150	152	767700	29.862
97) 3-Nitroaniline	(3)	7.258	138	174240	31.517
98)*Acenaphthene-d10	(3)	7.264	164	308354	20.000
99) Acenaphthene	(3)	7.293	153	508022	29.208
100) 2,4-Dinitrophenol	(3)	7.347	184	114259	39.370
101) Pentachlorobenzene	(3)	7.401	250	168643	30.980
104) Dibenzofuran	(3)	7.437	168	716887	29.092

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

PCH09 8821

Digitally signed by Matthew S. Woods
on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
103) 4-Nitrophenol	(3)	7.437	109	85415	29.056
105) 2,4-Dinitrotoluene	(3)	7.455	165	202931	31.690
106) 1-Naphthylamine	(3)	7.509	143	607054	30.427
107) 2,3,4,6-Tetrachlorophenol	(3)	7.551	232	130316	32.385
108) 2-Naphthylamine	(3)	7.575	143	620507	30.684
109) Diethylphthalate	(3)	7.670	149	593682	29.944
111) Fluorene	(3)	7.718	166	626159	30.542
110) Thionazin	(3)	7.736	107	124332	29.608
112) 4-Chlorophenyl-phenylether	(3)	7.736	204	275189	29.451
113) 5-Nitro-o-toluidine	(3)	7.748	152	209602	32.184
114) 4-Nitroaniline	(3)	7.760	138	185998	30.518
115) 4,6-Dinitro-2-methylphenol	(4)	7.784	198	118278	31.387
202) NDPA as diphenylamine	(4)	7.838	169	548085	30.623
117) N-Nitrosodiphenylamine	(4)	7.838	169	548085	30.851
118) 1,2-Diphenylhydrazine	(4)	7.862	77	663769	26.982
119)$2,4,6-Tribromophenol	(3)	7.916	330	62548	34.068
120) Tetraethyldithiopyrophosphate	(4)	7.993	97	93966	28.147
122) Diallate (peak 1)	(4)	8.077	86	245374	19.295
123) Phorate	(4)	8.083	75	596303	38.598
121) 1,3,5-Trinitrobenzene	(4)	8.095	213	78857	31.822
124) Phenacetin	(4)	8.119	108	344195	29.111
125) 4-Bromophenyl-phenylether	(4)	8.131	248	140679	32.048
126) Diallate (peak 2)	(4)	8.149	86	51531	6.493
127) Hexachlorobenzene	(4)	8.155	284	136079	32.602
128) Dimethoate	(4)	8.221	87	310270	32.575
131) Pentachlorophenol	(4)	8.334	266	88967	28.955
132) Pentachloronitrobenzene	(4)	8.334	237	58559	31.931
133) 4-Aminobiphenyl	(4)	8.340	169	665700	41.005
134) Pronamide	(4)	8.418	173	273646	32.460
135)*Phenanthrene-d10	(4)	8.472	188	533007	20.000
137) Phenanthrene	(4)	8.490	178	922457	30.270
136) Dinoseb	(4)	8.502	211	160277	30.045
138) Anthracene	(4)	8.532	178	954780	31.760
140) Carbazole	(4)	8.681	167	918393	31.244
141) Methyl parathion	(4)	8.807	109	241888	35.213
142) Di-n-butylphthalate	(4)	9.004	149	1071022	31.418
144) 4-Nitroquinoline-1-oxide	(4)	9.130	190	100445	32.038
143) Parathion	(4)	9.130	109	145787	32.080
146) Isodrin	(4)	9.321	193	101616	31.645
147) Fluoranthene	(4)	9.453	202	994273	33.877

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

PCHB9 8822

Digitally signed by Matthew S. Woods
on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

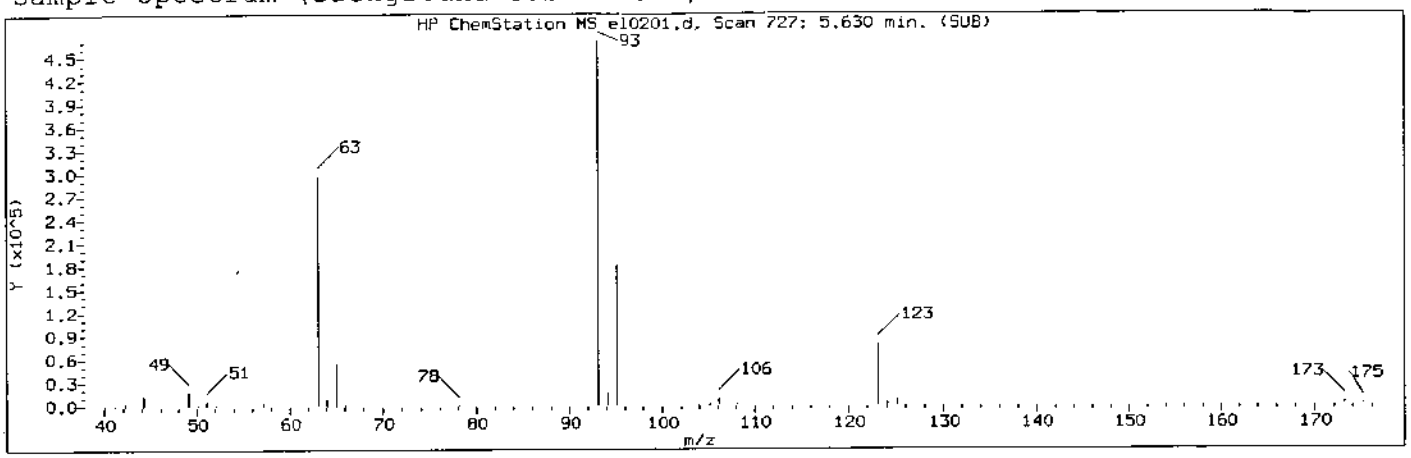
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
152) Benzidine	(5)	9.591	184	2119169	100.220
167)*Pyrene-d10	(5)	9.615	212	641072	20.000
154) Pyrene	(5)	9.633	202	1043571	29.750
156)$Terphenyl-d14	(5)	9.788	244	606981	31.388
158) p-Dimethylaminoazobenzene	(5)	9.908	225	210779	31.367
159) Chlorobenzilate	(5)	9.956	139	308596	30.289
160) 3,3'-Dimethylbenzidine	(5)	10.183	212	640348	34.378
161) Butylbenzylphthalate	(5)	10.213	149	485241	29.872
162) 2-Acetylaminofluorene	(5)	10.386	181	450914	32.388
166) Benzo(a)anthracene	(5)	10.608	228	837110	30.916
164) 3,3'-Dichlorobenzidine	(5)	10.614	252	309608	32.714
165) 4,4'-Methylenebis(2-Chloroanil	(5)	10.620	231	170708	33.692
168) Chrysene	(5)	10.638	228	872567	31.252
169) bis(2-Ethylhexyl)phthalate	(5)	10.703	149	648933	30.047
189) 6-Methylchrysene	(5)	11.020	242	615089	31.530
170) Di-n-octylphthalate	(6)	11.278	149	1100494	30.012
171) 7,12-Dimethylbenz[a]anthracene	(6)	11.559	256	381035	29.359
172) Benzo(b)fluoranthene	(6)	11.559	252	815513M	30.667
173) Benzo(k)fluoranthene	(6)	11.589	252	835679M	31.051
174) Benzo(a)pyrene	(6)	11.870	252	740936	31.473
175)*Perylene-d12	(6)	11.924	264	447604	20.000
176) 3-Methylcholanthrene	(6)	12.241	268	387014	30.381
190) Dibenz(a,h)acridine	(6)	12.821	279	560127	31.581
191) Dibenz(a,j)acridine	(6)	12.881	279	570050	28.913
177) Indeno(1,2,3-cd)pyrene	(6)	13.054	276	743154	30.479
178) Dibenz(a,h)anthracene	(6)	13.090	278	639793	30.655
179) Benzo(g,h,i)perylene	(6)	13.336	276	630932	30.302
129) Diallate TRANS/CIS	(4)		86	296905	25.769

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

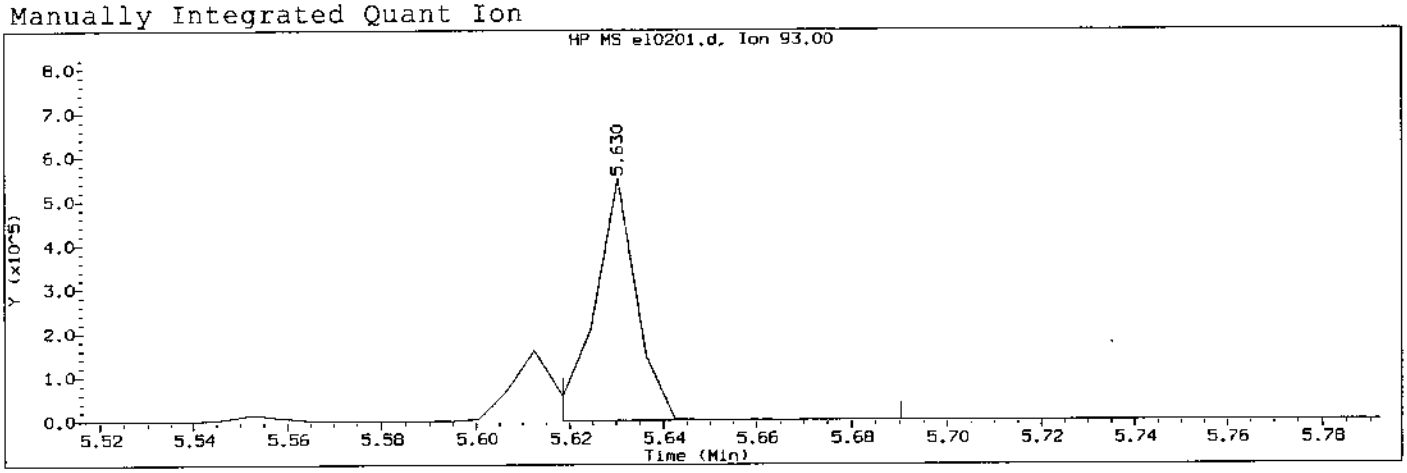
PCH85 0023

Digitally signed by Matthew S. Woods
on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 46		
Compound Name	: bis(2-Chloroethoxy)methane		
Scan Number	: 727		
Retention Time (minutes)	: 5.630		
Quant Ion	: 93.00		
Area (flag)	: 338096A		
On-Column Amount (ng/ul)	: 26.8645		
Integration start scan	: 724	Integration stop scan:	736
Y at integration start	: 0	Y at integration end:	0

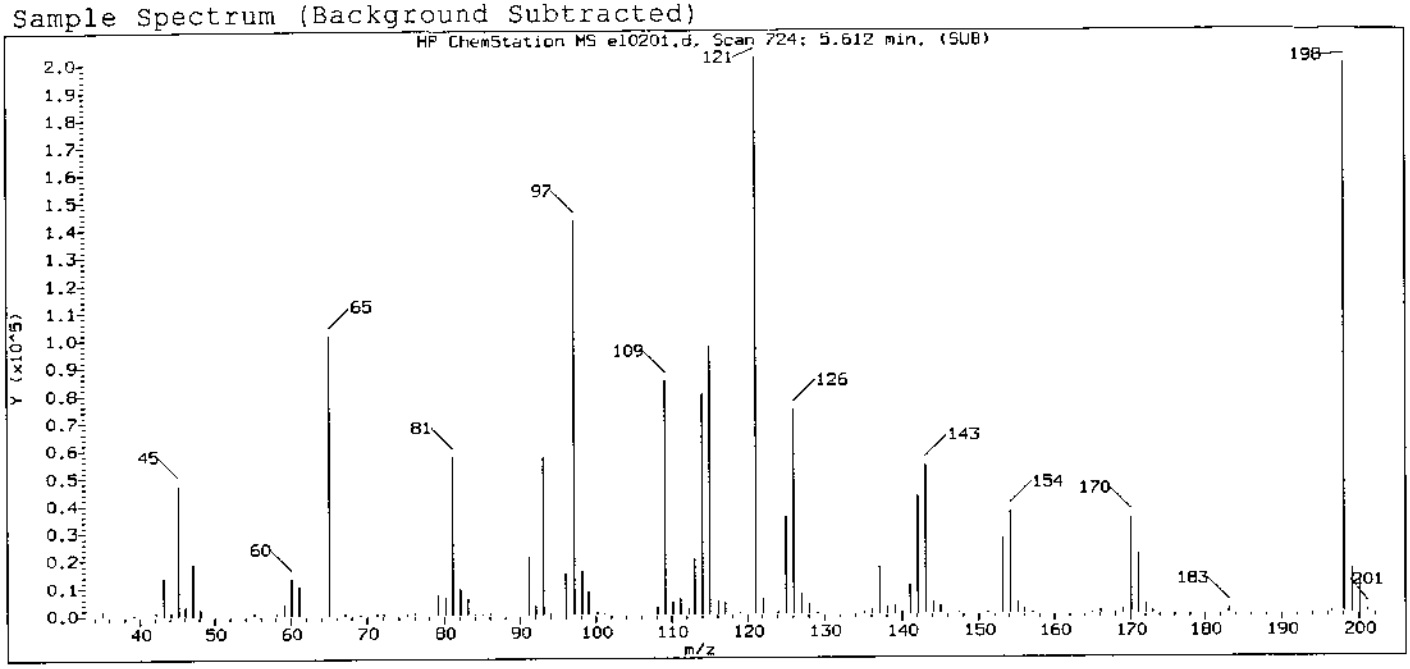
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

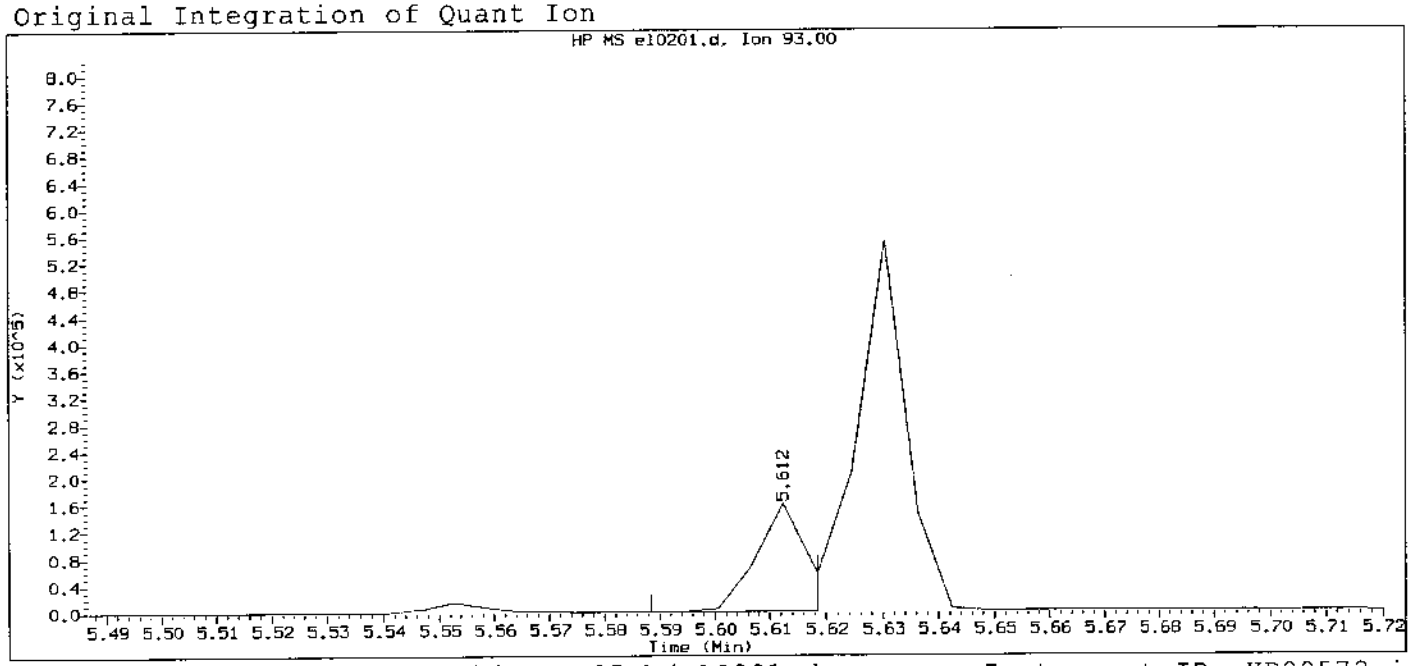
PCH89 8824

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:39
Date, time and analyst ID of latest file update: 05-Dec-2011 08:39 Automation

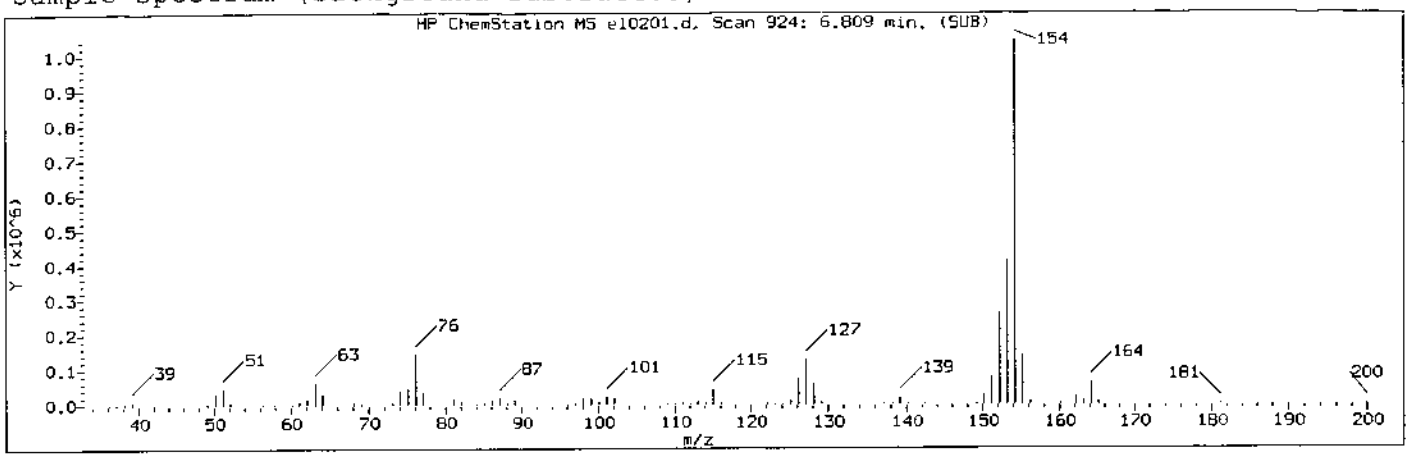
Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 46		
Compound Name	: bis(2-Chloroethoxy)methane		
Scan Number	: 724		
Retention Time (minutes)	: 5.612		
Quant Ion	: 93.00		
Area	: 92728		
On-column Amount (ng/ul)	: 7.3680		
Integration start scan	: 719	Integration stop scan:	724
Y at integration start	: 0	Y at integration end:	0

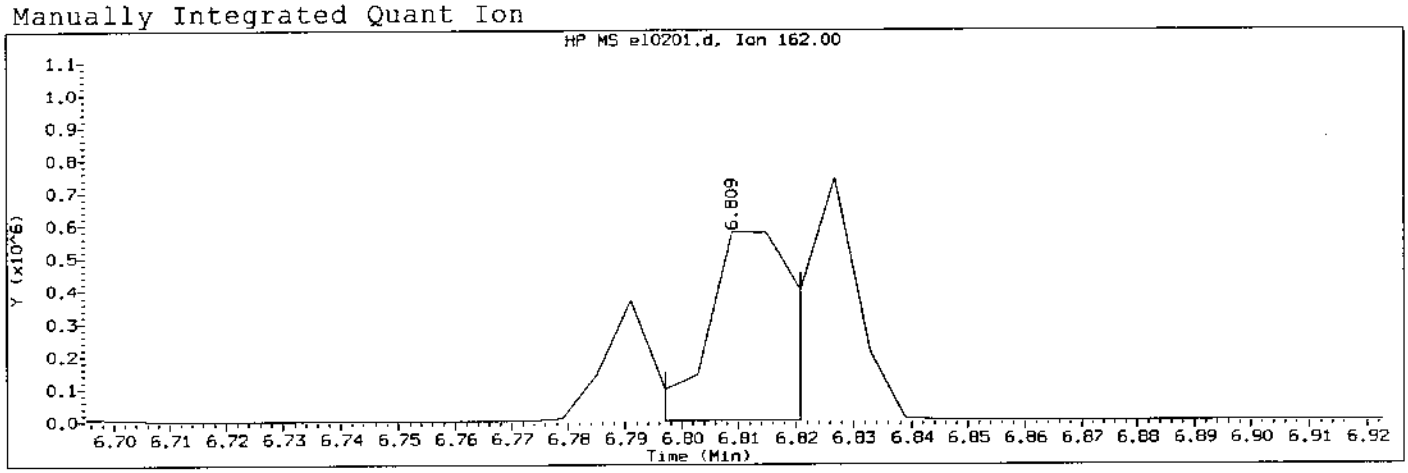
PCH09 8825

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 84		
Compound Name	: 2-Chloronaphthalene		
Scan Number	: 924		
Retention Time (minutes)	: 6.809		
Quant Ion	: 162.00		
Area (flag)	: 641786M		
On-Column Amount (ng/ul)	: 31.6218		
Integration start scan	: 921	Integration stop scan:	925
Y at integration start	: 70	Y at integration end:	67

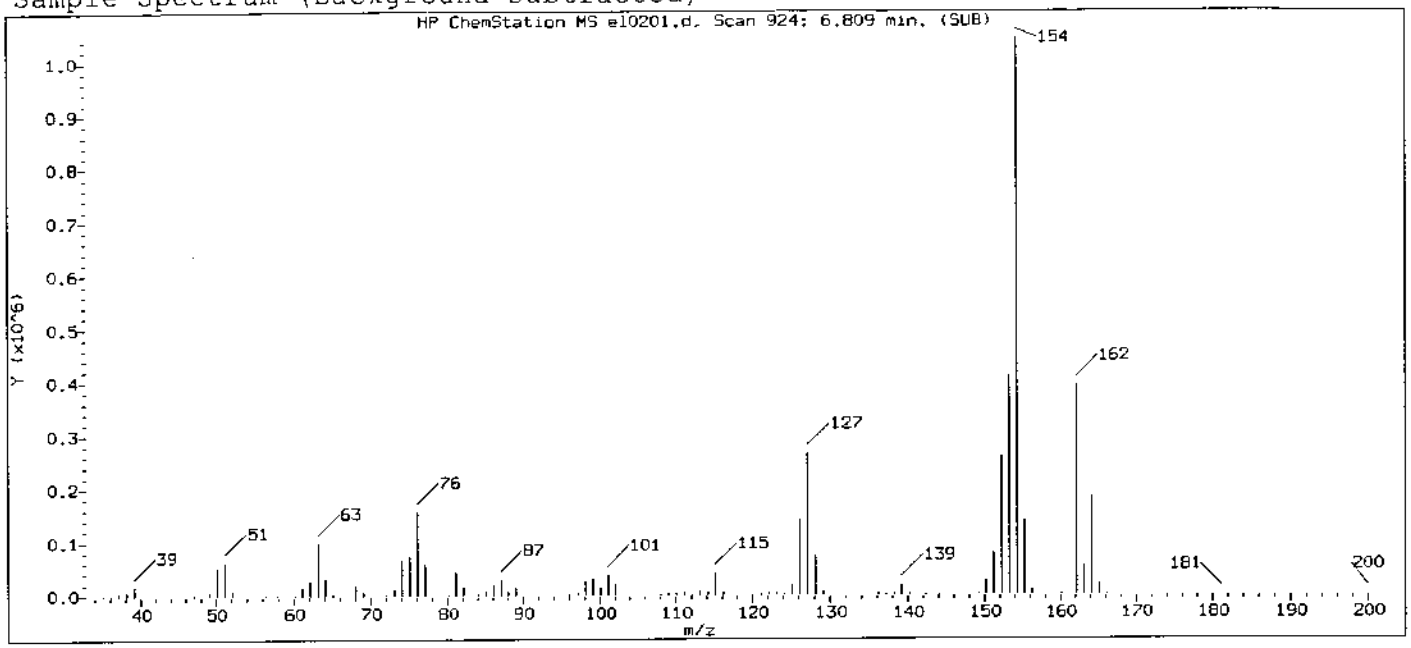
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

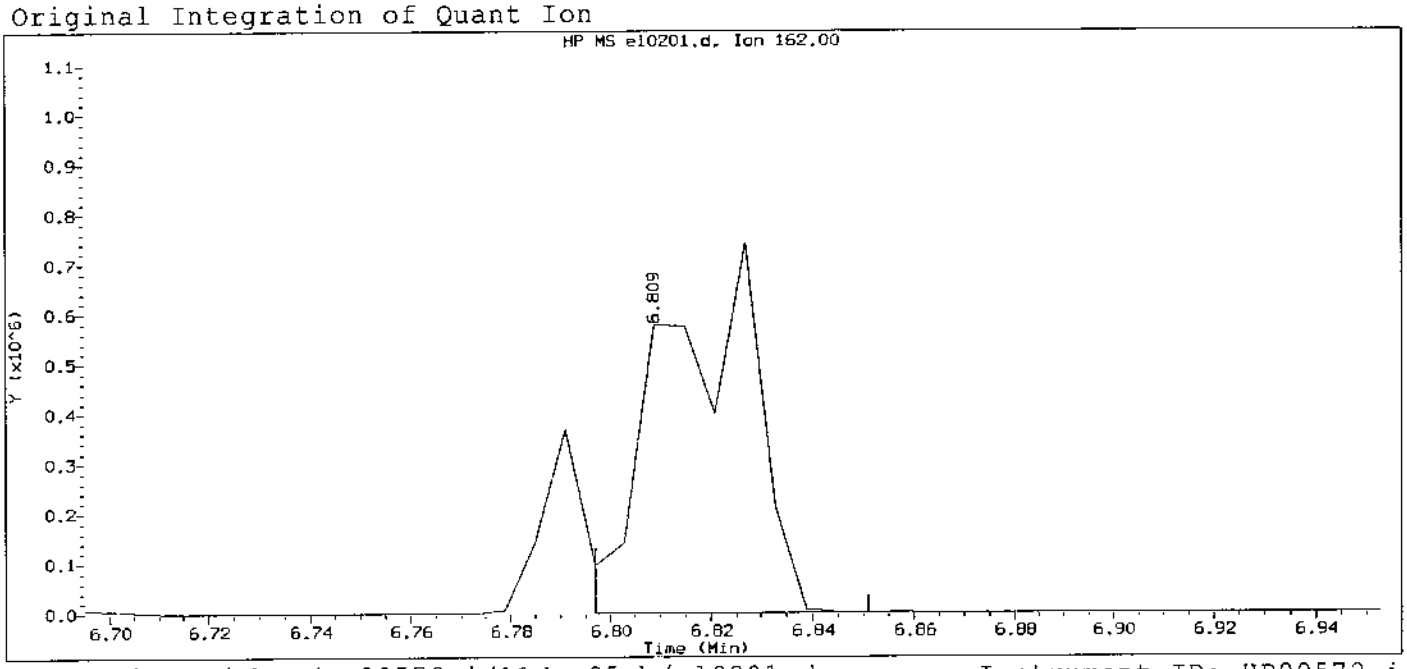
PCH89 8826

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
ParaMax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:39
Date, time and analyst ID of latest file update: 05-Dec-2011 08:39 Automation

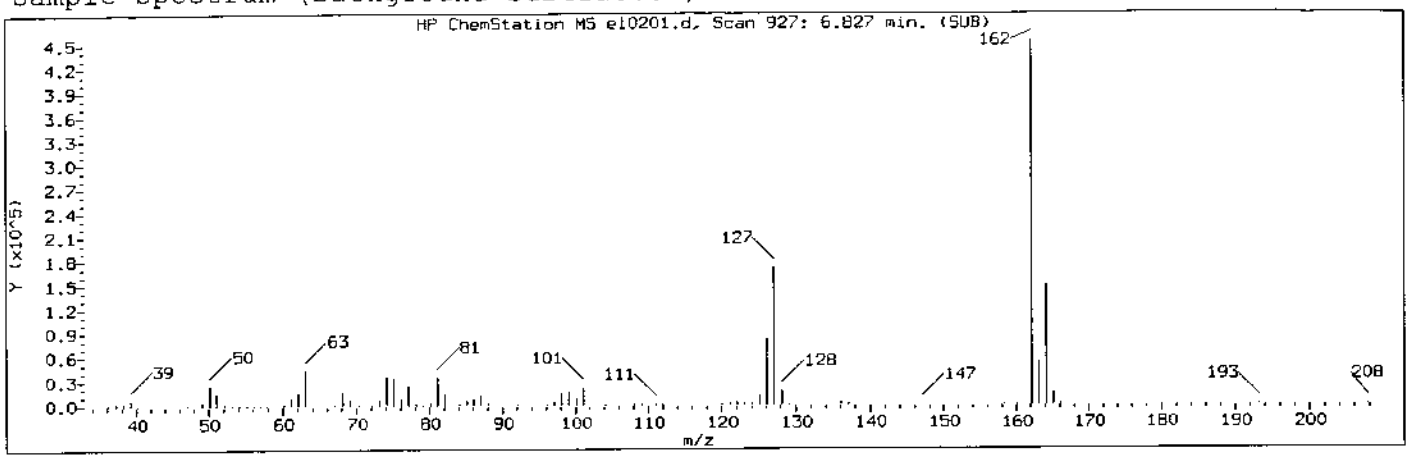
Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 84		
Compound Name	: 2-Chloronaphthalene		
Scan Number	: 924		
Retention Time (minutes)	: 6.809		
Quant Ion	: 162.00		
Area	: 970464		
On-column Amount (ng/ul)	: 47.8161		
Integration start scan	: 921	Integration stop scan:	930
Y at integration start	: 70	Y at integration end:	63

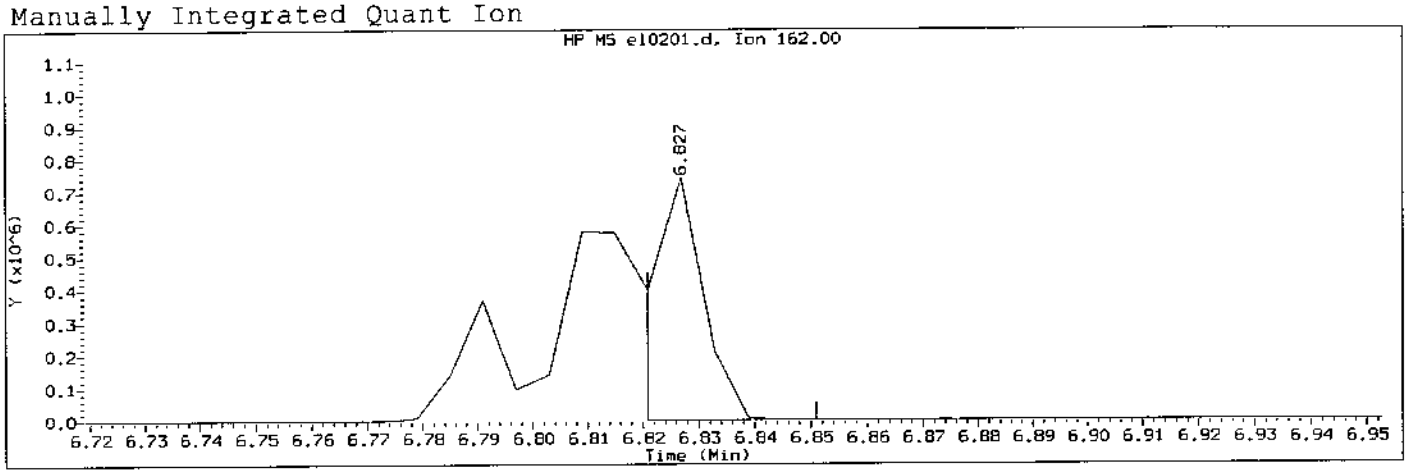
PCH89 8827

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 85		
Compound Name	: 1-Chloronaphthalene		
Scan Number	: 927		
Retention Time (minutes)	: 6.827		
Quant Ion	: 162.00		
Area (flag)	: 489884M		
On-Column Amount (ng/ul)	: 28.6896		
Integration start scan	: 925	Integration stop scan:	930
Y at integration start	: -235	Y at integration end:	-235

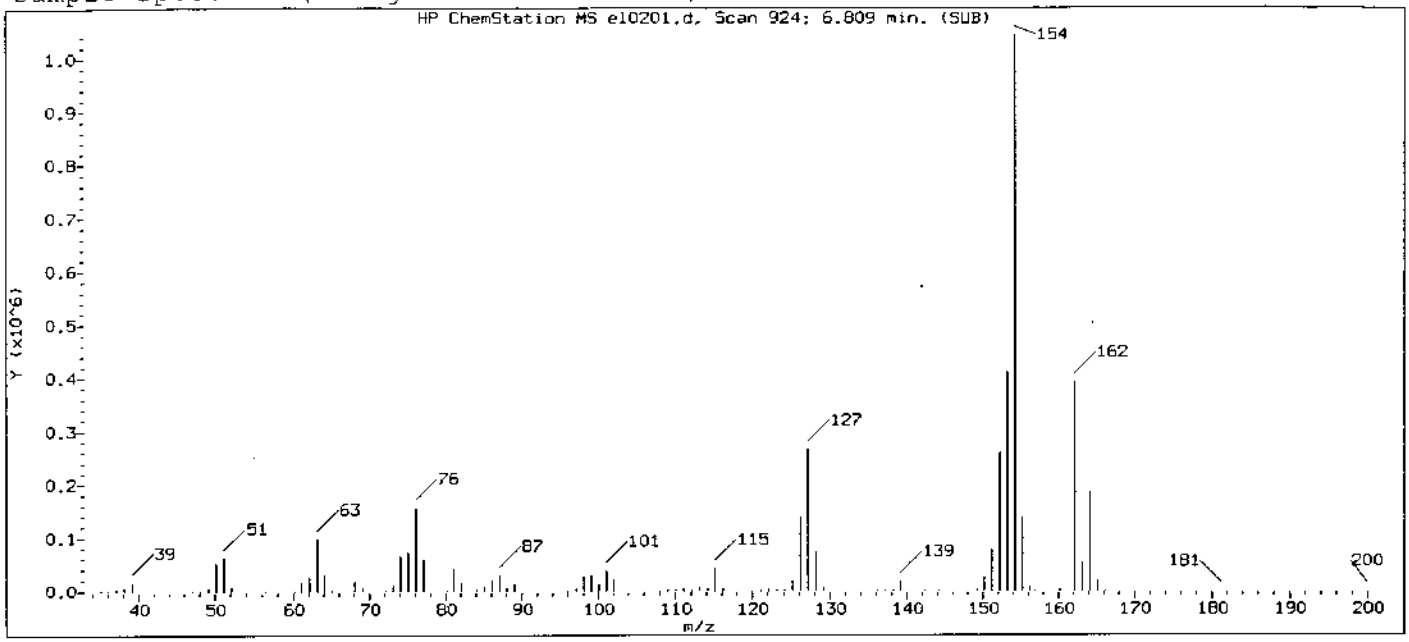
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

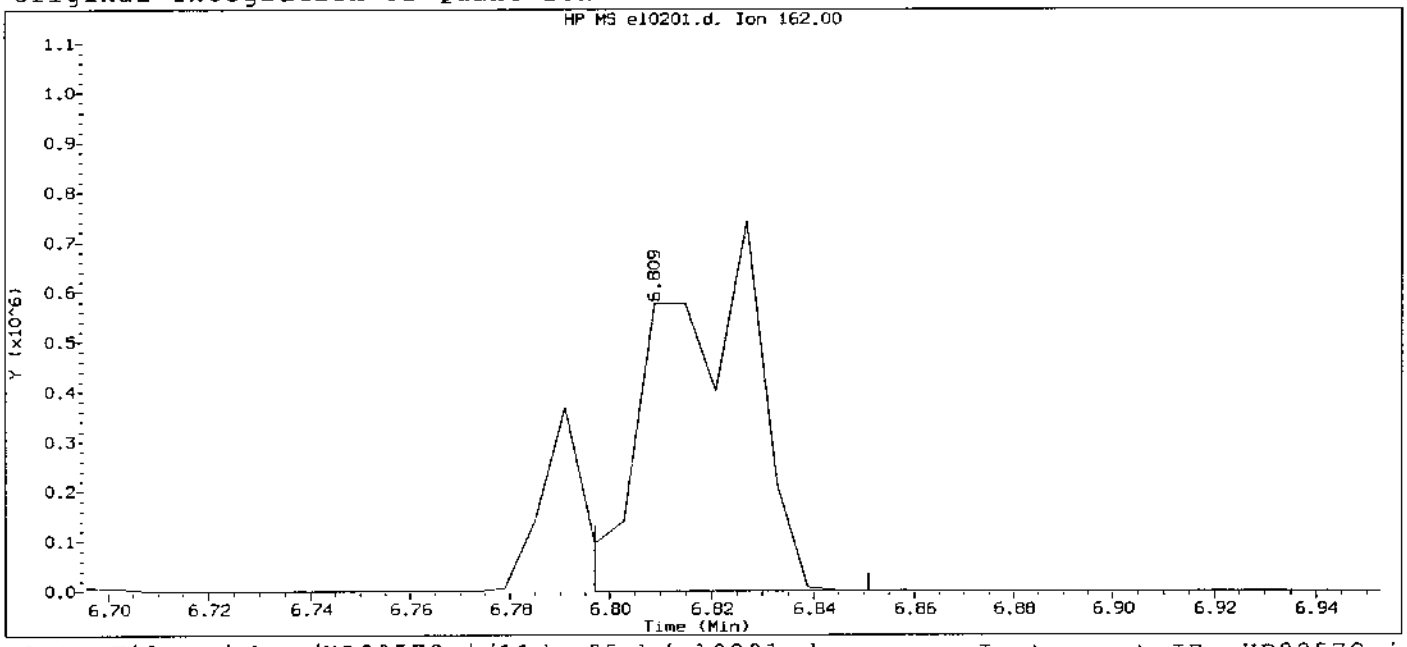
PCH89 8828

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
ParaHax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:39
Date, time and analyst ID of latest file update: 05-Dec-2011 08:39 Automation

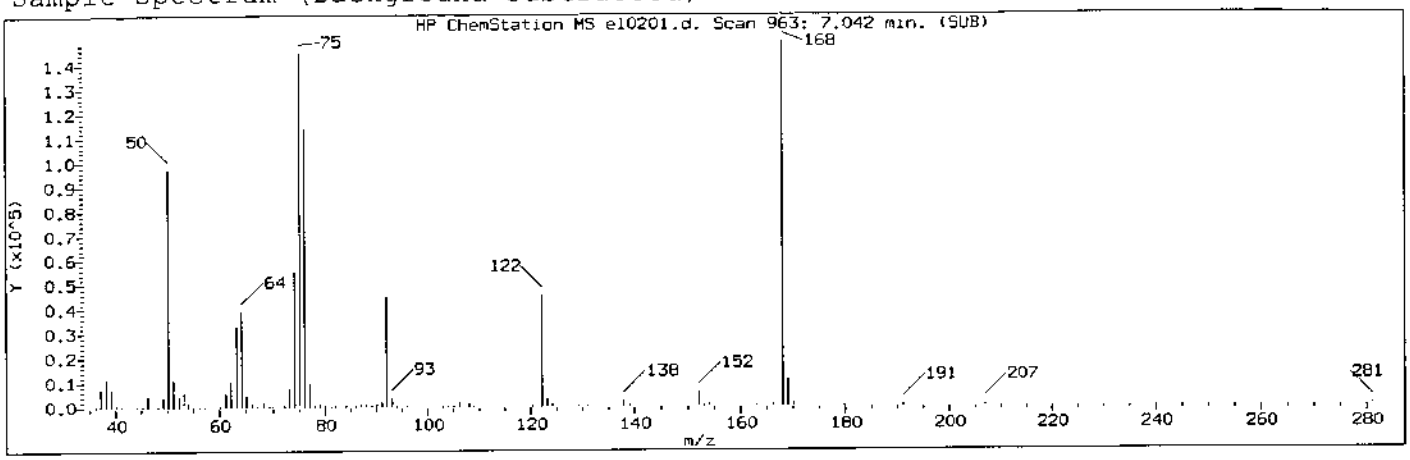
Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 85
Compound Name	: 1-Chloronaphthalene
Scan Number	: 924
Retention Time (minutes)	: 6.809
Quant Ion	: 162.00
Area	: 970435
On-column Amount (ng/ul)	: 56.8324
Integration start scan	: 921
Integration stop scan	: 930
Y at integration start	: 79
Y at integration end	: 72

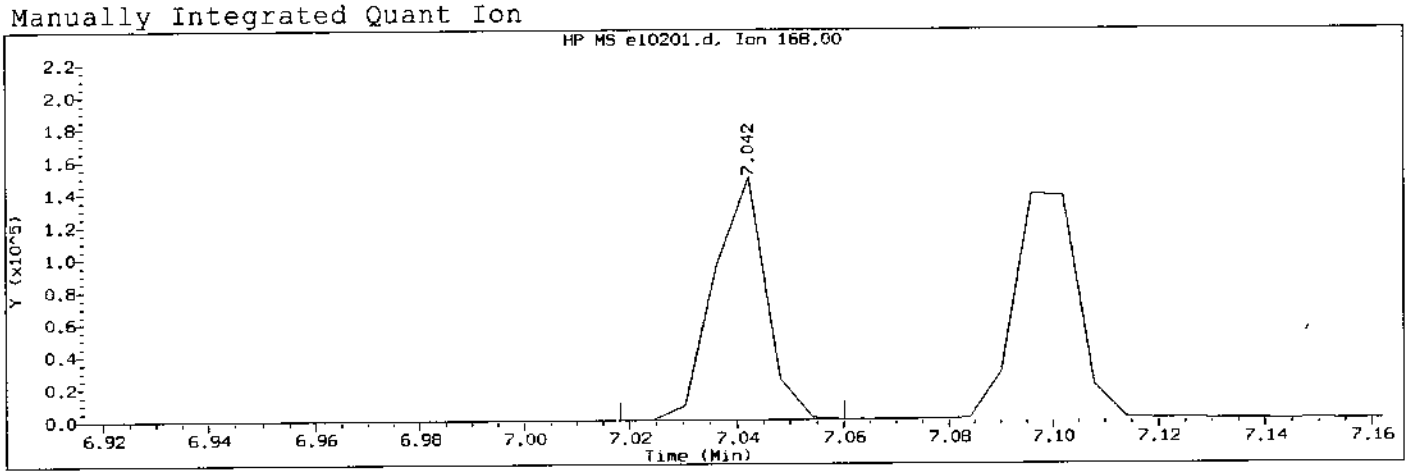
PCH09 0029

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 91		
Compound Name	: 1,4-Dinitrobenzene		
Scan Number	: 963		
Retention Time (minutes)	: 7.042		
Quant Ion	: 168.00		
Area (flag)	: 100573A		
On-Column Amount (ng/ul)	: 31.6840		
Integration start scan	: 958	Integration stop scan:	965
Y at integration start	: 0	Y at integration end:	0

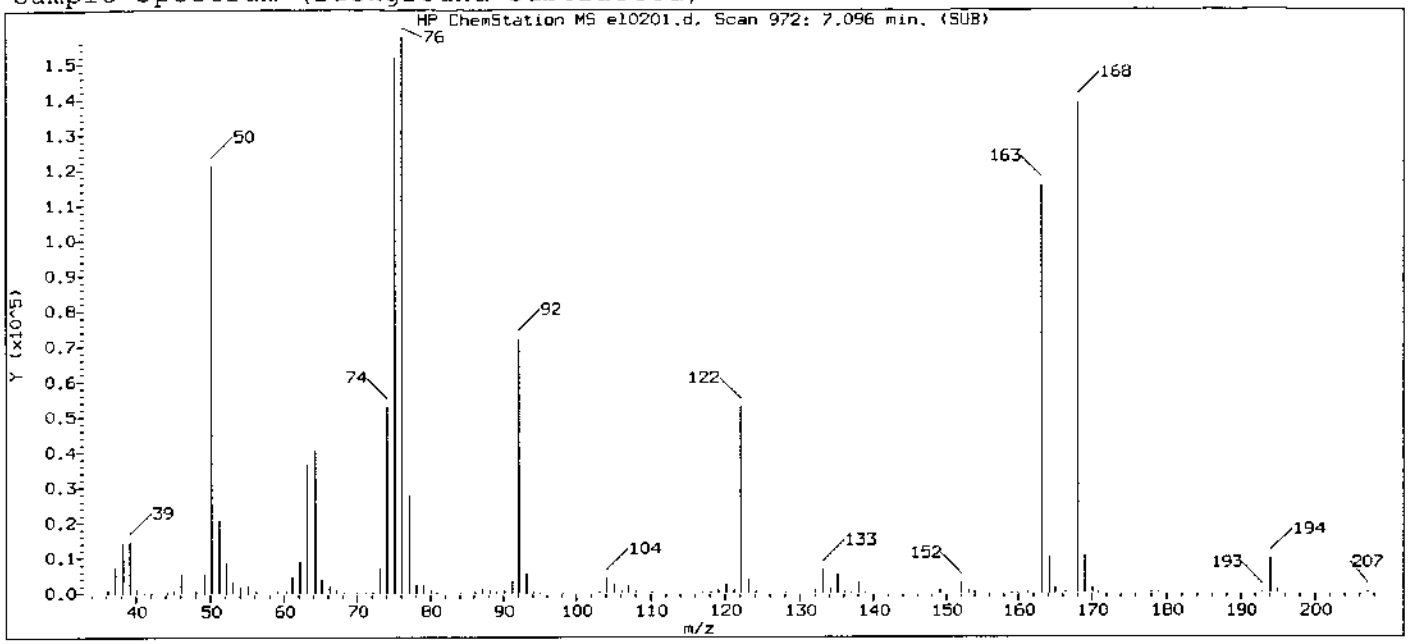
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48. Target 3.5 esignature user ID: msw02109

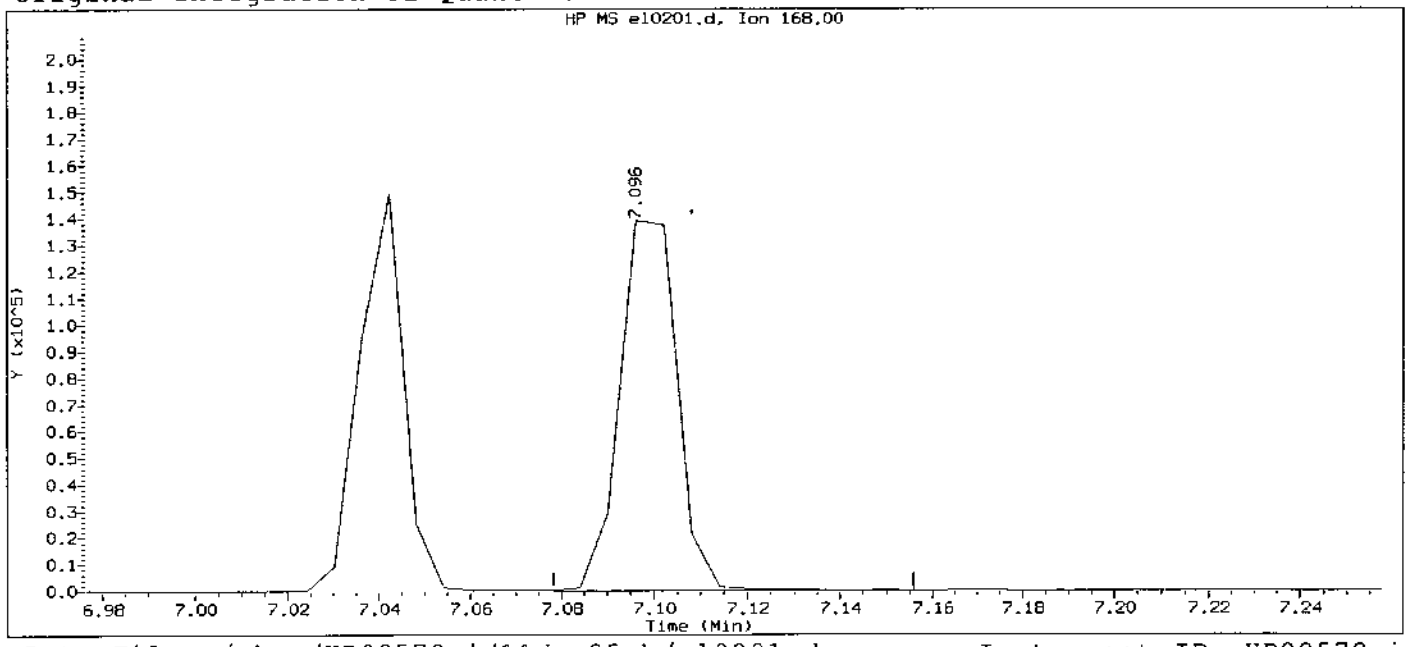
PCHB9 8838

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:39
Date, time and analyst ID of latest file update: 05-Dec-2011 08:39 Automation

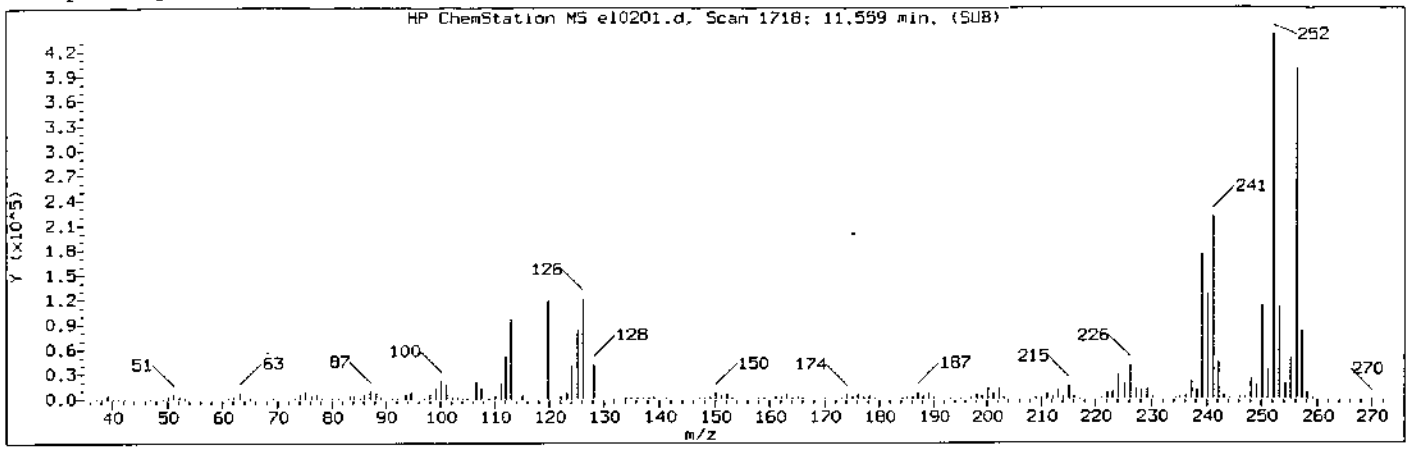
Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 91		
Compound Name	: 1,4-Dinitrobenzene		
Scan Number	: 972		
Retention Time (minutes)	: 7.096		
Quant Ion	: 168.00		
Area	: 119318		
On-column Amount (ng/ul)	: 37.5894		
Integration start scan	: 968	Integration stop scan:	981
Y at integration start	: 0	Y at integration end:	0

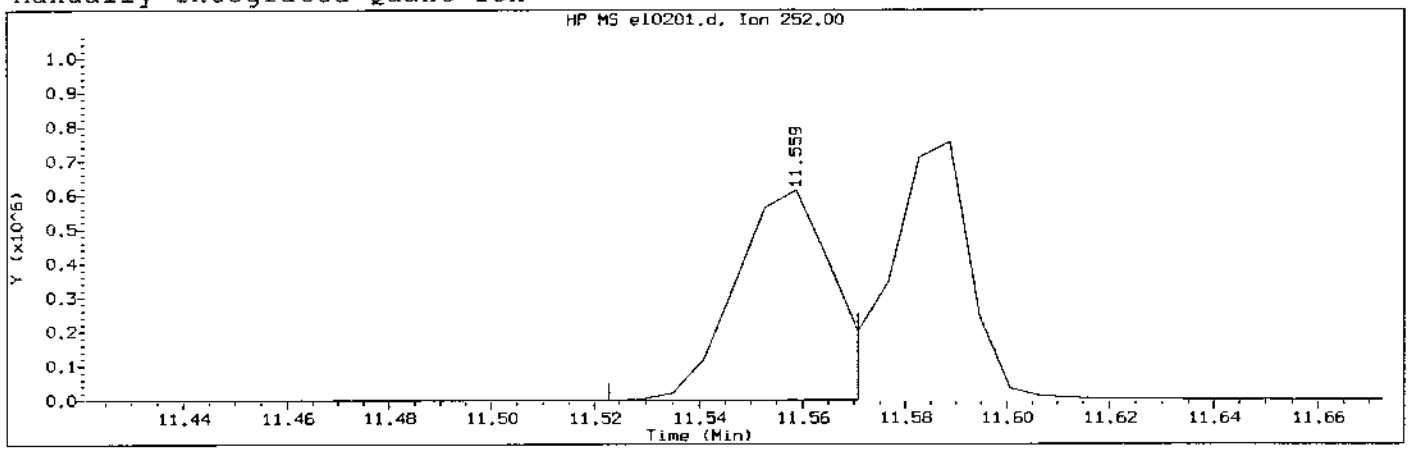
PCH09 8831

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 172		
Compound Name	: Benzo(b)fluoranthene		
Scan Number	: 1718		
Retention Time (minutes)	: 11.559		
Quant Ion	: 252.00		
Area (flag)	: 815513M		
On-Column Amount (ng/ul)	: 30.6666		
Integration start scan	: 1711	Integration stop scan:	1719
Y at integration start	: 0	Y at integration end:	128

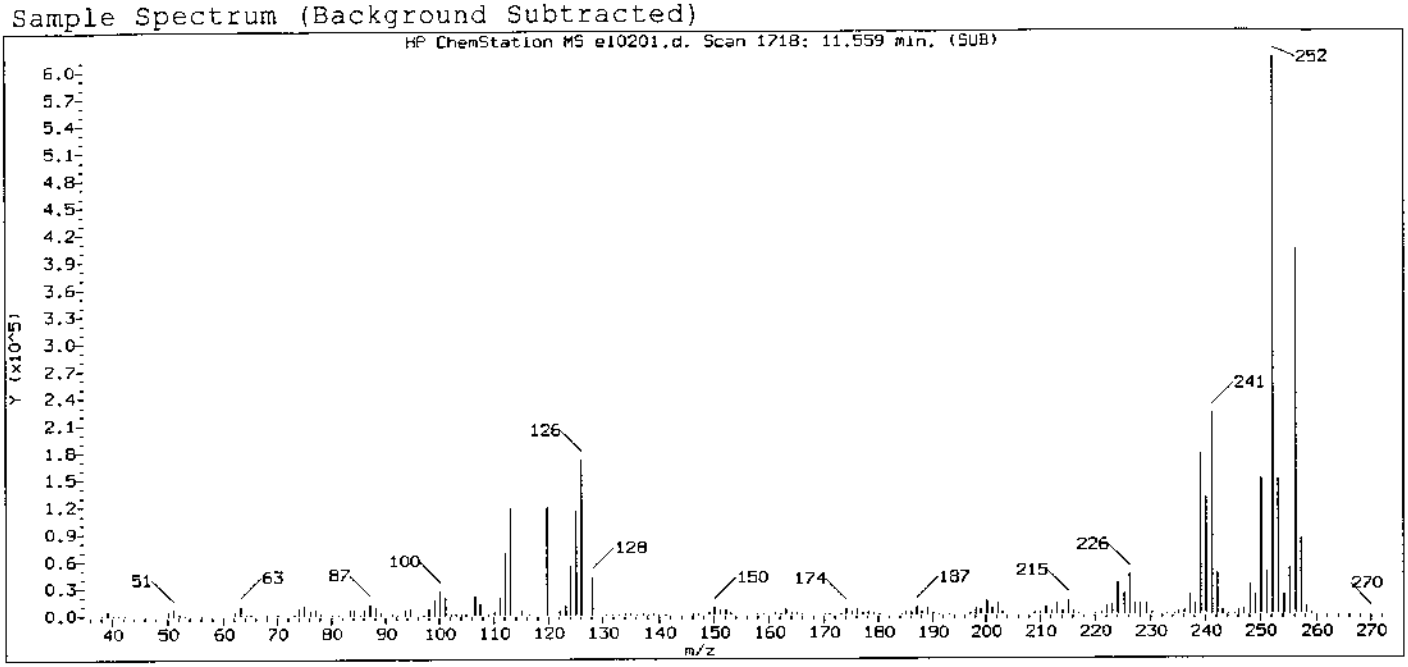
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48. Target 3.5 esignature user ID: msw02109

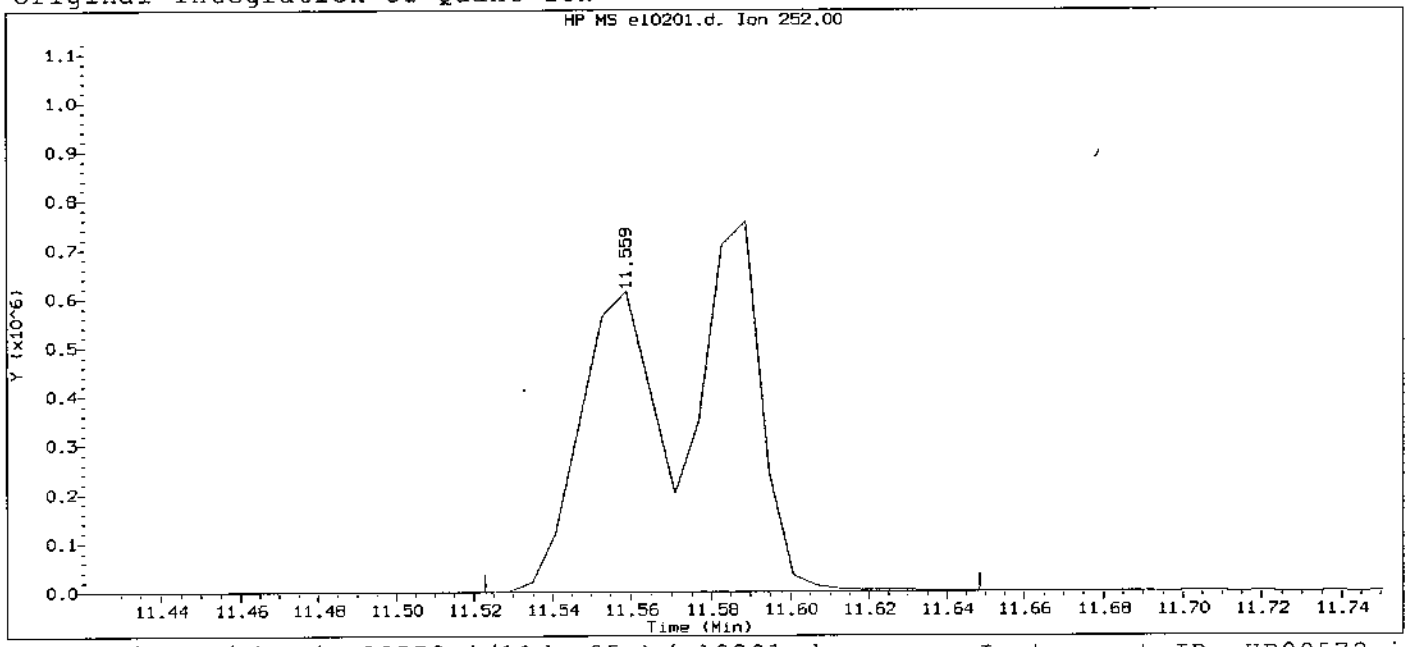
PCH09 0832

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:39
Date, time and analyst ID of latest file update: 05-Dec-2011 08:39 Automation

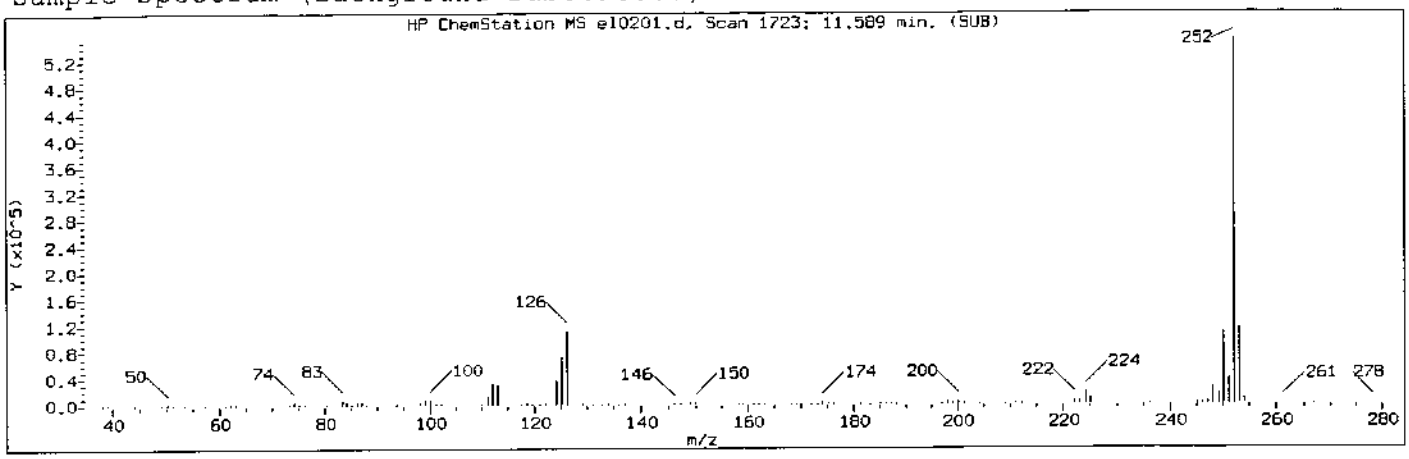
Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 172		
Compound Name	: Benzo(b)fluoranthene		
Scan Number	: 1718		
Retention Time (minutes)	: 11.559		
Quant Ion	: 252.00		
Area	: 1576269		
On-column Amount (ng/ul)	: 59.2740		
Integration start scan	: 1711	Integration stop scan:	1732
Y at integration start	: 0	Y at integration end:	338

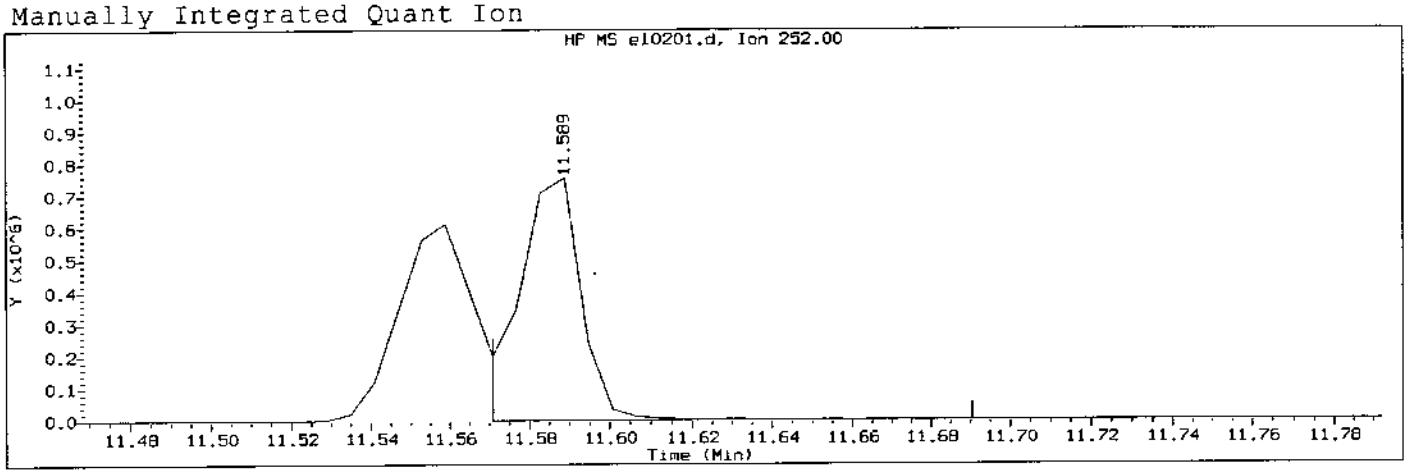
PCH89 8833

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 08:55 msw02109

Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 173		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1723		
Retention Time (minutes)	: 11.589		
Quant Ion	: 252.00		
Area (flag)	: 835679M		
On-Column Amount (ng/ul)	: 31.0514		
Integration start scan	: 1719	Integration stop scan:	1739
Y at integration start	: 111	Y at integration end:	111

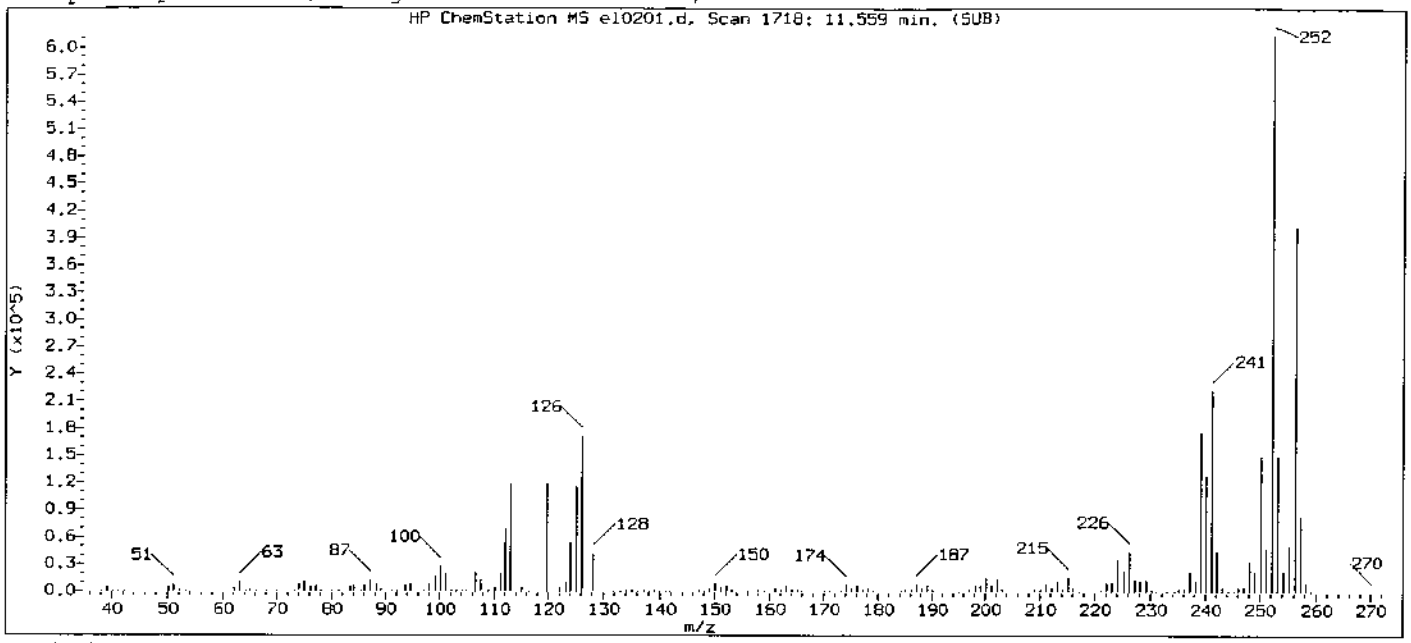
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48. Target 3.5 esignature user ID: msw02109

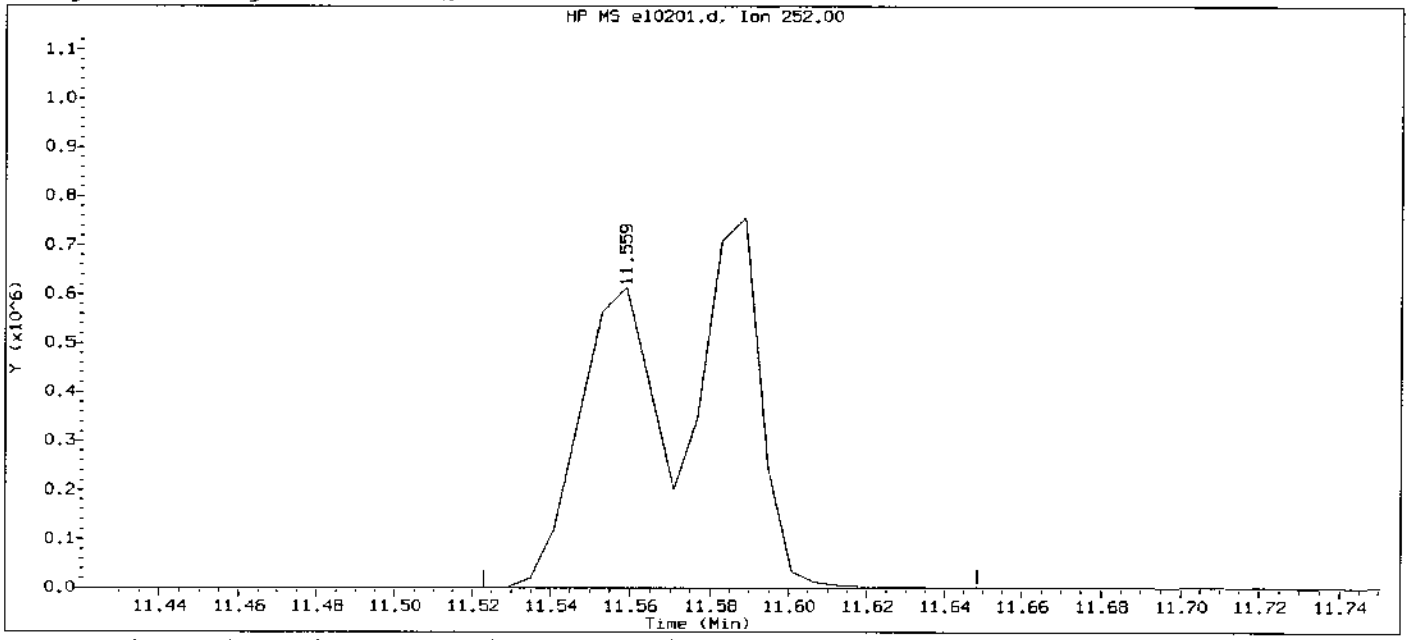
PCH89 8834

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10201.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 08:17 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: newall1
Calibration date and time: 05-DEC-2011 08:39
Date, time and analyst ID of latest file update: 05-Dec-2011 08:39 Automation

Sample Name: SSTD030 Lab Sample ID: STD3321

Compound Number	: 173		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1718		
Retention Time (minutes)	: 11.559		
Quant Ion	: 252.00		
Area	: 1576269		
On-column Amount (ng/ul)	: 58.5695		
Integration start scan	: 1711	Integration stop scan:	1732
Y at integration start	: 0	Y at integration end:	338

PCH89 0835

Digitally signed by Matthew S. Woods on 12/05/2011 at 13:48.
Target 3.5 esignature user ID: msw02109

Raw QC Data

SBLKWK3255 Lancaster Labs Analysis Summary for GC/MS Semivolatiles SBLKWK325

Data file: /chem/HP09572.i/11dec05.b/el0202.d
Data file Sample Info. Line: SBLKWK3255;SBLKWK325;
Date, time and analyst ID of latest file update: 05-Dec-2011 12:24 msw02109

Injection date and time: **05-DEC-2011 09:16**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH2893**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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	4.619	(0.000)	558	152	86165	(-15)	20.00	
52) Naphthalene-d8	5.786	(0.006)	753	136	379259	(-20)	20.00	
98) Acenaphthene-d10	7.264	(0.000)	1000	164	239759	(-22)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	430804	(-19)	20.00	
167) Pyrene-d10	9.615	(0.000)	1393	212	511428	(-20)	20.00	
175) Perylene-d12	11.918	(0.006)	1778	264	372035	(-17)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.158	(-0.001)	82	753940	91.567	92%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731	(0.000)	172	1464731	100.956	101%		63 - 114
156) Terphenyl-d14	(5)	9.794	(-0.001)	244	1534260	99.453	99%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)				Not Detected					0.1
70) 2-Methylnaphthalene	(2)				Not Detected					0.1
95) Acenaphthylene	(3)				Not Detected					0.1
99) Acenaphthene	(3)				Not Detected					0.1
111) Fluorene	(3)				Not Detected					0.1
137) Phenanthrene	(4)				Not Detected					0.1
138) Anthracene	(4)				Not Detected					0.1
147) Fluoranthene	(4)				Not Detected					0.1
154) Pyrene	(5)				Not Detected					0.1
166) Benzo(a)anthracene	(5)				Not Detected					0.1
168) Chrysene	(5)				Not Detected					0.1
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

PCH89 6837

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:13. Target 3.5 esignature user ID: msw02109

Data file: /chem/HP09572.i/11dec05.b/el0202.d
Injection date and time: **05-DEC-2011 09:16**
Data file Sample Info. Line: SBLKWK3255;SBLKWK325;
Instrument ID: **HP09572.i** Batch: **11325WAK**
Date, time and analyst ID of latest file update: 05-Dec-2011 12:24 msw02109

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH2893**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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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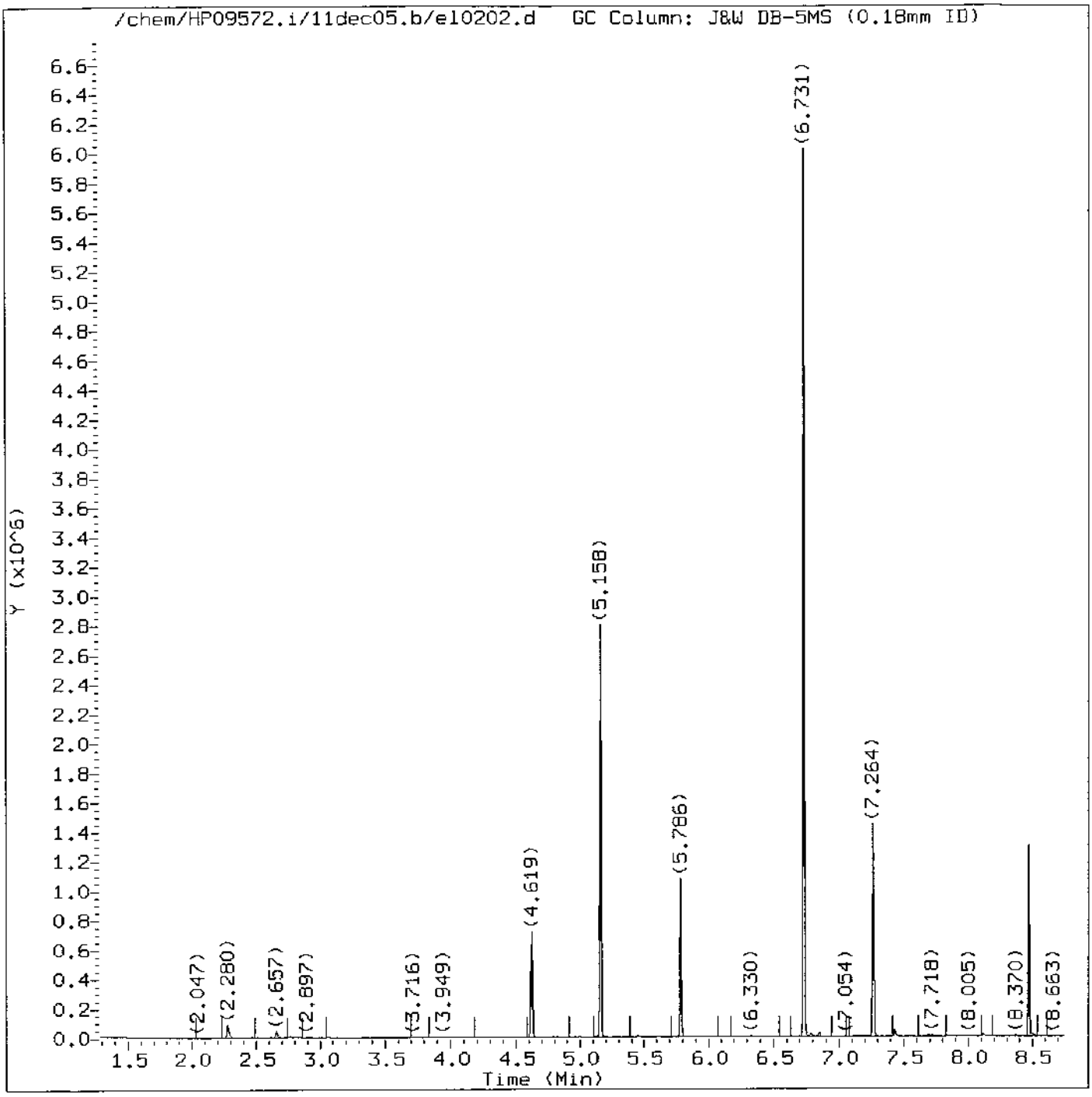
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Total number of targets = 17

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:13. Target 3.5 esignature user ID: msw02109

PCNB9 8838

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10202.d
Injection date and time: 05-DEC-2011 09:16

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55

Sublist used: WPAH2893

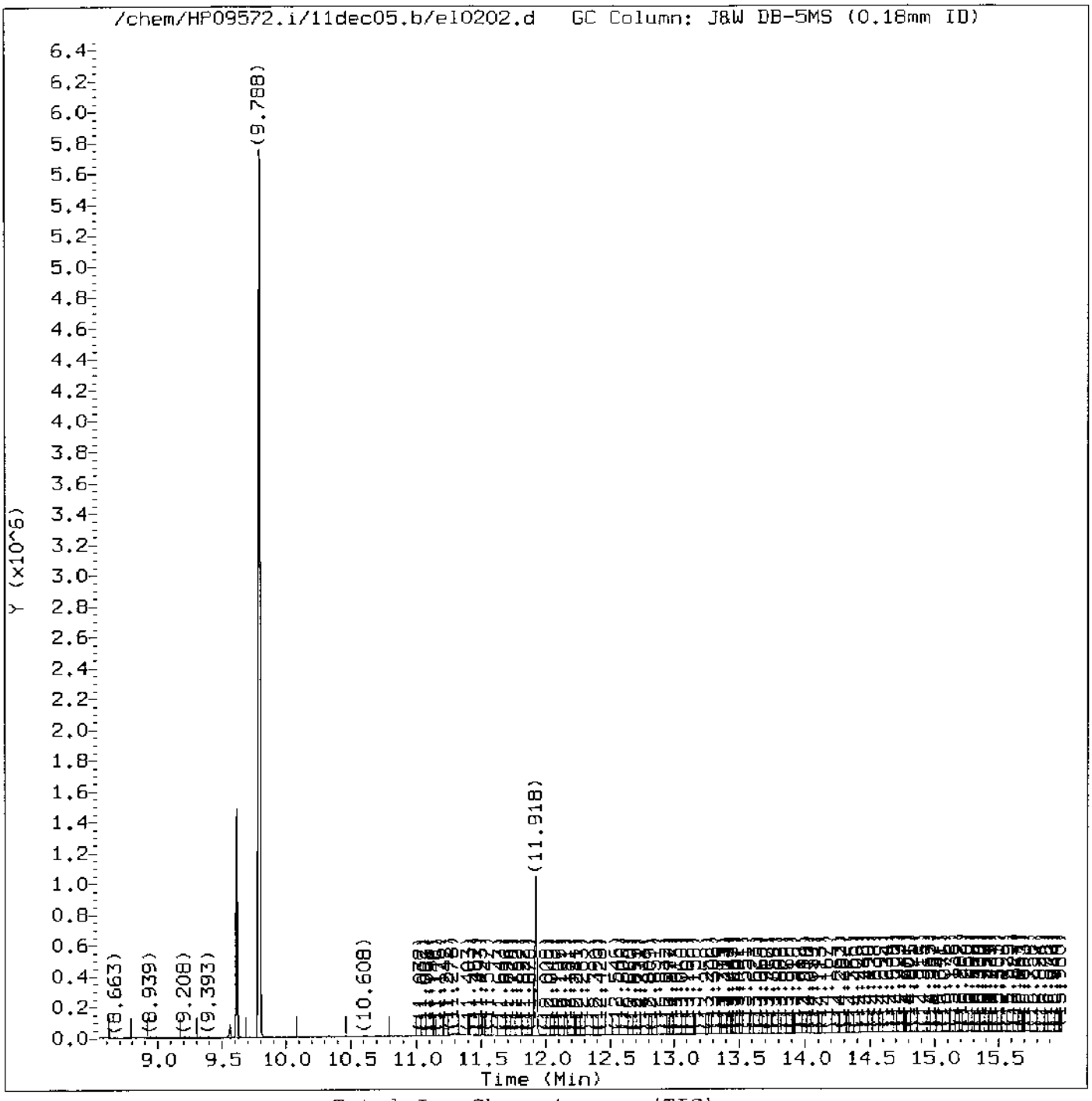
Date, time and analyst ID of latest file update: 05-Dec-2011 12:24 msw02109

Sample Name: SBLKWK3255

Lab Sample ID: SBLKWK325

PCH89 8839

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:13.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0202.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 09:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 12:24 msw02109

Sample Name: SBLKWK3255 Lab Sample ID: SBLKWK325

PCH89 8848

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:13.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0202.d
Injection date and time: 05-DEC-2011 09:16
Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55
Sublist used: WPAH2893
Date, time and analyst ID of latest file update: 05-Dec-2011 12:24 msw02109

Sample Name: SBLKWK3255
Lab Sample ID: SBLKWK325

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.619	152	86165	20.000
38)$Nitrobenzene-d5	(2)	5.158	82	753940	91.567
52)*Naphthalene-d8	(2)	5.786	136	379259	20.000
78)$2-Fluorobiphenyl	(3)	6.731	172	1464731	100.956
98)*Acenaphthene-d10	(3)	7.264	164	239759	20.000
135)*Phenanthrene-d10	(4)	8.472	188	430804	20.000
167)*Pyrene-d10	(5)	9.615	212	511428	20.000
156)$Terphenyl-d14	(5)	9.794	244	1534260	99.453
175)*Perylene-d12	(6)	11.918	264	372035	20.000

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

PCH89 8841

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:13.
Target 3.5 esignature user ID: msw02109

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PAT01MS

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 6477562

Sample wt/vol: 1010 (g/mL)ML Lab File ID: el0212.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			44	
91-57-6	2-Methylnaphthalene			44	
208-96-8	Acenaphthylene			51	
83-32-9	Acenaphthene			46	
86-73-7	Fluorene			48	
85-01-8	Phenanthrene			48	
120-12-7	Anthracene			49	
206-44-0	Fluoranthene			53	
129-00-0	Pyrene			48	
56-55-3	Benzo(a)anthracene			49	
218-01-9	Chrysene			49	
205-99-2	Benzo(b)fluoranthene			47	
207-08-9	Benzo(k)fluoranthene			48	
50-32-8	Benzo(a)pyrene			48	
193-39-5	Indeno(1,2,3-cd)pyrene			51	
53-70-3	Dibenz(a,h)anthracene			52	
191-24-2	Benzo(g,h,i)perylene			49	

PCH#9 8842

XXXXXMS

Lancaster Labs
Analysis Summary for GC/MS Semivolatiles

6477562

Data file: /chem/HP09572.i/11dec05.b/e10212.d
Data file Sample Info. Line: XXXXXMS;6477562;
Date, time and analyst ID of latest file update: 05-Dec-2011 13:46 msw02109

Injection date and time: **05-DEC-2011 13:16**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/e10202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH2893**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/e10201.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): 1010 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	4.625	(-0.006)	559	152	89309	(-12)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	403791	(-15)	20.00	
98) Acenaphthene-d10	7.270	(-0.006)	1001	164	254916	(-17)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	435598	(-18)	20.00	
167) Pyrene-d10	9.621	(-0.006)	1394	212	486827	(-24)	20.00	
175) Perylene-d12	11.930	(-0.006)	1780	264	322448	(-28)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	737200	84.095	84%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.737	(0.000)	172	1418593	91.962	92%		63 - 114
156) Terphenyl-d14	(5)	9.794	(0.000)	244	1346477	91.691	92%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)	5.810	(0.000)	128	976307	44.032	43.60			0.1
70) 2-Methylnaphthalene	(2)	6.414	(-0.001)	142	671338	44.778	44.33			0.1
95) Acenaphthylene	(3)	7.150	(0.000)	152	1095330	51.538	51.03			0.1
99) Acenaphthene	(3)	7.294	(0.000)	153	664421	46.208	45.75			0.1
111) Fluorene	(3)	7.718	(0.000)	166	817041	48.207	47.73			0.1
137) Phenanthrene	(4)	8.496	(-0.000)	178	1197522	48.083	47.61			0.1
138) Anthracene	(4)	8.538	(-0.000)	178	1226675	49.929	49.43			0.1
147) Fluoranthene	(4)	9.453	(0.000)	202	1278754	53.313	52.79			0.1
154) Pyrene	(5)	9.632	(0.000)	202	1282684	48.153	47.68			0.1
166) Benzo(a)anthracene	(5)	10.608	(0.000)	228	1021924	49.700	49.21			0.1
168) Chrysene	(5)	10.638	(0.000)	228	1047514	49.406	48.92			0.1
172) Benzo(b)fluoranthene	(6)	11.559	(0.000)	252	901099	47.037	46.57			0.1
173) Benzo(k)fluoranthene	(6)	11.589	(0.000)	252	948708	48.934	48.45			0.1
174) Benzo(a)pyrene	(6)	11.876	(-0.000)	252	820271	48.367	47.89			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	13.060	(0.000)	276	898043	51.128	50.62			0.1
178) Dibenz(a,h)anthracene	(6)	13.102	(-0.000)	278	782460	52.042	51.53			0.1
179) Benzo(g,h,i)perylene	(6)	13.348	(-0.000)	276	744663	49.646	49.15			0.1

PCH09 8843

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:10. Target 3.5 esignature user ID: msw02109

XXXXXMS Lancaster Labs
Analysis Summary for GC/MS Semivolatiles 6477562

Data file: /chem/HP09572.i/11dec05.b/e102i2.d
Data file Sample Info. Line: XXXXXMS;6477562;
Date, time and analyst ID of latest file update: 05-Dec-2011 13:46 msw02109

Injection date and time: **05-DEC-2011 13:16**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/e10202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH2893**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/e10201.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): 1010 ml Volume Injected (Vi): 1 ul

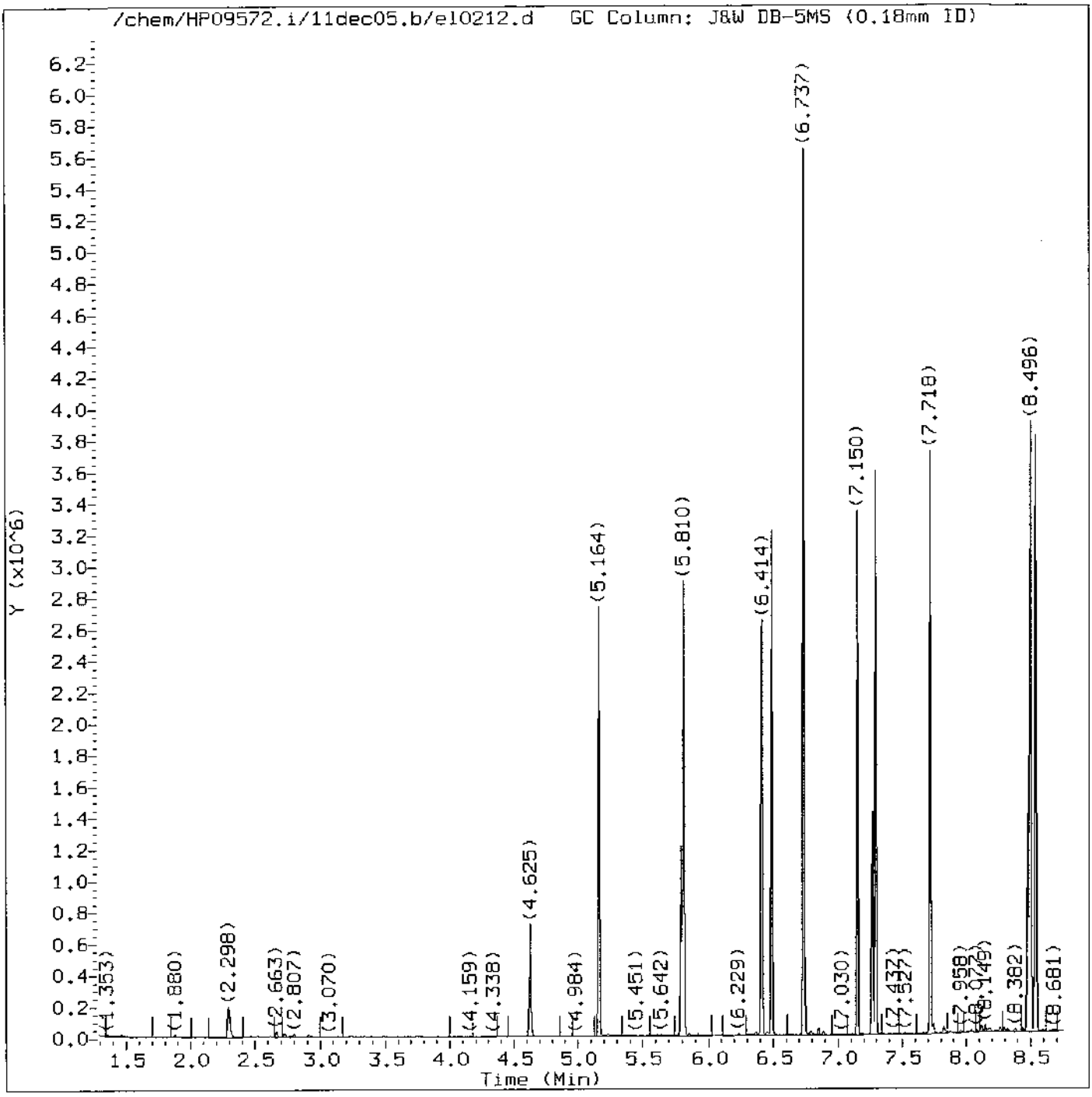
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Total number of targets = 17

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:10. Target 3.5 esignature user ID: msw02109

PCB85 8844

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

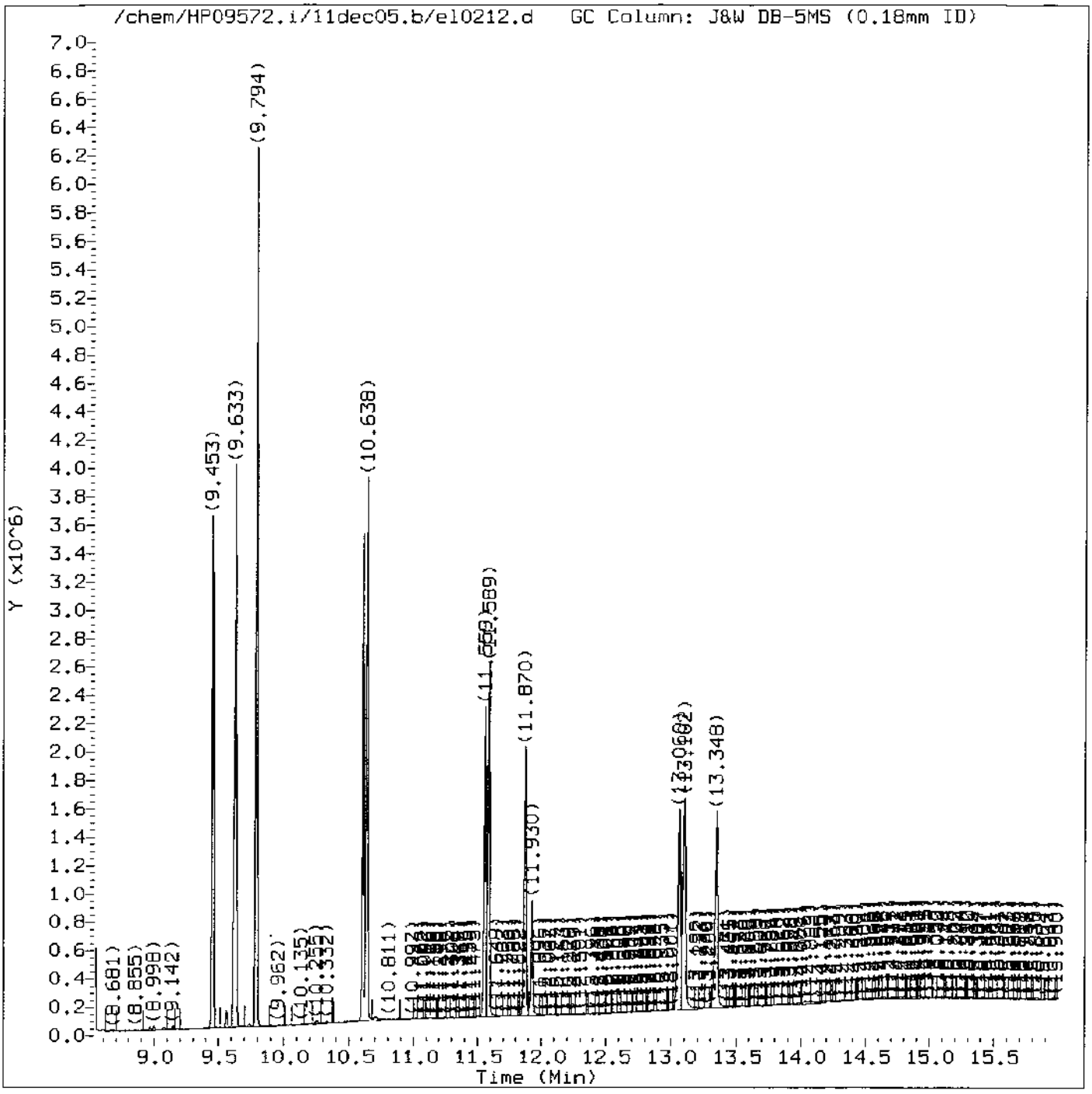
Data File: /chem/HP09572.i/11dec05.b/el0212.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 13:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 13:46 msw02109

Sample Name: XXXXXMS Lab Sample ID: 6477562

PCN89 8845

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:10.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0212.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 13:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 13:46 msw02109

Sample Name: XXXXXMS Lab Sample ID: 6477562

PCH89 8846

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:10.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0212.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 13:16 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 13:46 msw02109

Sample Name: XXXXXMS Lab Sample ID: 6477562

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	89309	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	737200	84.095
52)*Naphthalene-d8	(2)	5.792	136	403791	20.000
53) Naphthalene	(2)	5.810	128	976307	44.032
70) 2-Methylnaphthalene	(2)	6.414	142	671338	44.778
78)$2-Fluorobiphenyl	(3)	6.737	172	1418593	91.962
95) Acenaphthylene	(3)	7.150	152	1095330	51.538
98)*Acenaphthene-d10	(3)	7.270	164	254916	20.000
99) Acenaphthene	(3)	7.294	153	664421	46.208
111) Fluorene	(3)	7.718	166	817041	48.207
135)*Phenanthrene-d10	(4)	8.472	188	435598	20.000
137) Phenanthrene	(4)	8.496	178	1197522	48.083
138) Anthracene	(4)	8.538	178	1226675	49.929
147) Fluoranthene	(4)	9.453	202	1278754	53.313
167)*Pyrene-d10	(5)	9.621	212	486827	20.000
154) Pyrene	(5)	9.633	202	1282684	48.153
156)$Terphenyl-d14	(5)	9.794	244	1346477	91.691
166) Benzo(a)anthracene	(5)	10.608	228	1021924	49.700
168) Chrysene	(5)	10.638	228	1047514	49.406
172) Benzo(b)fluoranthene	(6)	11.559	252	901099	47.037
173) Benzo(k)fluoranthene	(6)	11.589	252	948708	48.934
174) Benzo(a)pyrene	(6)	11.876	252	820271	48.367
175)*Perylene-d12	(6)	11.930	264	322448	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	13.060	276	898043	51.128
178) Dibenz(a,h)anthracene	(6)	13.102	278	782460	52.042
179) Benzo(g,h,i)perylene	(6)	13.348	276	744663	49.646

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

PCH89 0547

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:10.
Target 3.5 esignature user ID: msw02109

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

PAT01MSD

Lab Name: Lancaster Laboratories Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 6477563

Sample wt/vol: 1035 (g/mL)ML Lab File ID: el0213.d

Level: (low/med) LOW Date Received: 11/19/11

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ UG/L	Q
91-20-3	Naphthalene		45	
91-57-6	2-Methylnaphthalene		45	
208-96-8	Acenaphthylene		51	
83-32-9	Acenaphthene		46	
86-73-7	Fluorene		48	
85-01-8	Phenanthrene		47	
120-12-7	Anthracene		49	
206-44-0	Fluoranthene		52	
129-00-0	Pyrene		47	
56-55-3	Benzo(a)anthracene		49	
218-01-9	Chrysene		47	
205-99-2	Benzo(b)fluoranthene		46	
207-08-9	Benzo(k)fluoranthene		48	
50-32-8	Benzo(a)pyrene		48	
193-39-5	Indeno(1,2,3-cd)pyrene		40	
53-70-3	Dibenz(a,h)anthracene		51	
191-24-2	Benzo(g,h,i)perylene		49	

PCH09 8248

XXXXXMSD Lancaster Labs Analysis Summary for GC/MS Semivolatiles 6477563

Data file: /chem/HP09572.i/11dec05.b/e10213.d
Data file Sample Info. Line: XXXXXMSD;6477563;
Date, time and analyst ID of latest file update: 05-Dec-2011 14:59 msw02109

Injection date and time: **05-DEC-2011 13:40**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/e10202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH2893**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/e10201.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): 1035 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	4.625	(-0.006)	559	152	91147	(-10)	20.00	
52) Naphthalene-d8	5.792	(0.000)	754	136	404741	(-14)	20.00	
98) Acenaphthene-d10	7.269	(-0.006)	1001	164	262172	(-15)	20.00	
135) Phenanthrene-d10	8.472	(0.000)	1202	188	454381	(-15)	20.00	
167) Pyrene-d10	9.620	(-0.006)	1394	212	504063	(-21)	20.00	
175) Perylene-d12	11.930	(-0.006)	1780	264	332340	(-26)	20.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.164	(-0.001)	82	759003	86.378	86%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.737	(0.000)	172	1499018	94.486	94%		63 - 114
156) Terphenyl-d14	(5)	9.794	(0.000)	244	1388065	91.291	91%		34 - 118

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
53) Naphthalene	(2)	5.810	(-0.000)	128	1035448	46.590	45.01			0.1
70) 2-Methylnaphthalene	(2)	6.408	(-0.000)	142	704909	46.906	45.32			0.1
95) Acenaphthylene	(3)	7.150	(0.000)	152	1150548	52.638	50.86			0.1
99) Acenaphthene	(3)	7.293	(0.000)	153	709441	47.973	46.35			0.1
111) Fluorene	(3)	7.718	(0.000)	166	871183	49.979	48.29			0.1
137) Phenanthrene	(4)	8.496	(-0.000)	178	1257891	48.419	46.78			0.1
138) Anthracene	(4)	8.538	(-0.000)	178	1289566	50.319	48.62			0.1
147) Fluoranthene	(4)	9.453	(-0.000)	202	1340453	53.575	51.76			0.1
154) Pyrene	(5)	9.632	(0.000)	202	1346245	48.811	47.16			0.1
166) Benzo(a)anthracene	(5)	10.607	(0.000)	228	1073174	50.408	48.70			0.1
168) Chrysene	(5)	10.637	(0.000)	228	1067773	48.639	46.99			0.1
172) Benzo(b)fluoranthene	(6)	11.559	(0.000)	252	941072	47.662	46.05			0.1
173) Benzo(k)fluoranthene	(6)	11.588	(0.000)	252	998546M	49.971	48.28			0.1
174) Benzo(a)pyrene	(6)	11.876	(-0.000)	252	859420	49.167	47.50			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	13.060	(0.000)	276	747174	41.272	39.88			0.1
178) Dibenz(a,h)anthracene	(6)	13.096	(0.000)	278	812455	52.428	50.66			0.1
179) Benzo(g,h,i)perylene	(6)	13.347	(-0.000)	276	778598	50.363	48.66			0.1

M = Compound was manually integrated.

PCH89 8849

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:09. Target 3.5 esignature user ID: msw02109

XXXXXMSD Lancaster Labs Analysis Summary for GC/MS Semivolatiles 6477563

Data file: /chem/HP09572.i/11dec05.b/el0213.d
Data file Sample Info. Line: XXXXXMSD;6477563;
Date, time and analyst ID of latest file update: 05-Dec-2011 14:59 msw02109

Injection date and time: **05-DEC-2011 13:40**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH2893**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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): 1035 ml Volume Injected (Vi): 1 ul

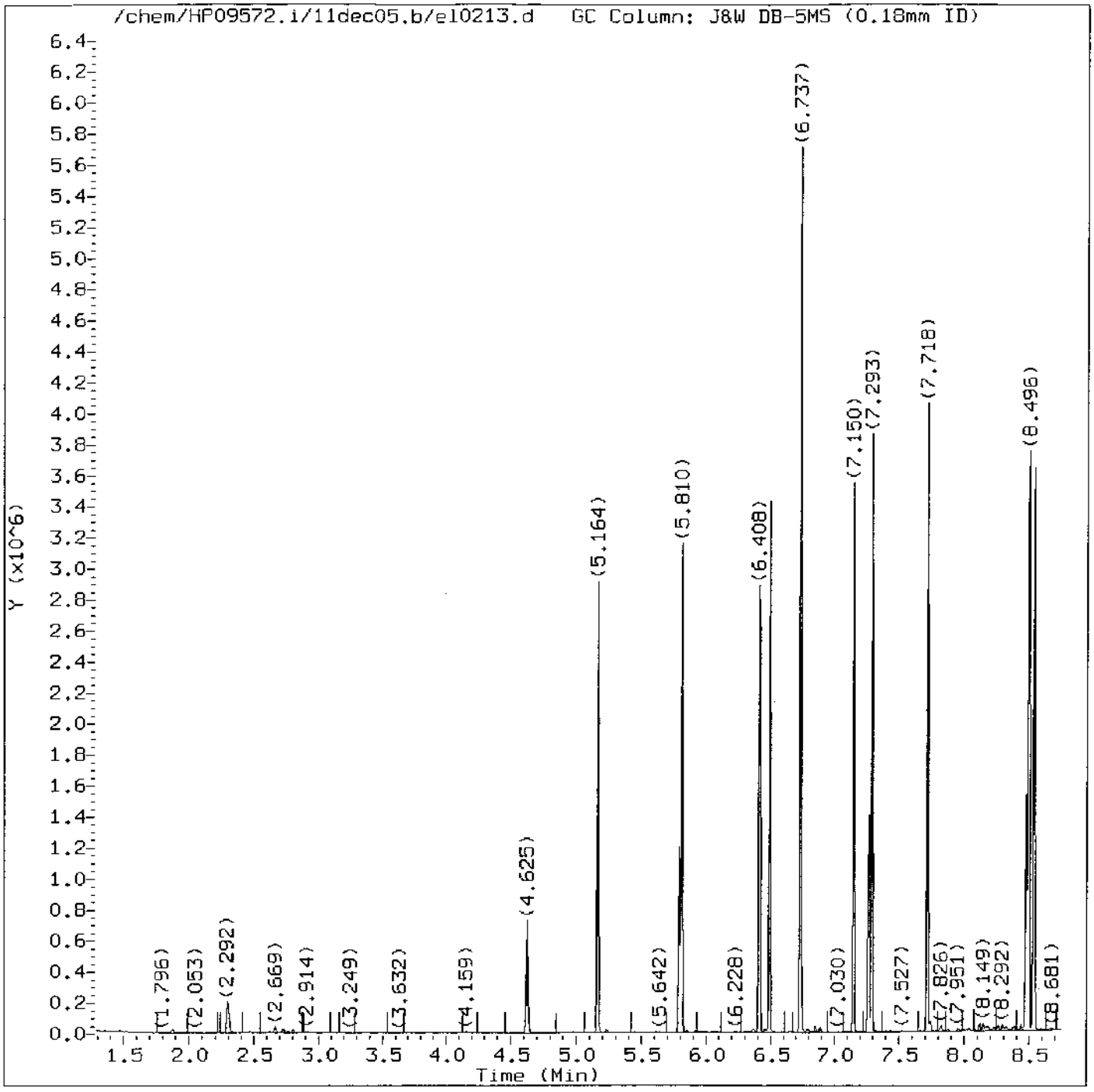
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WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 17

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:09. Target 3.5 esignature user ID: msw02109

PCH09 6858

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

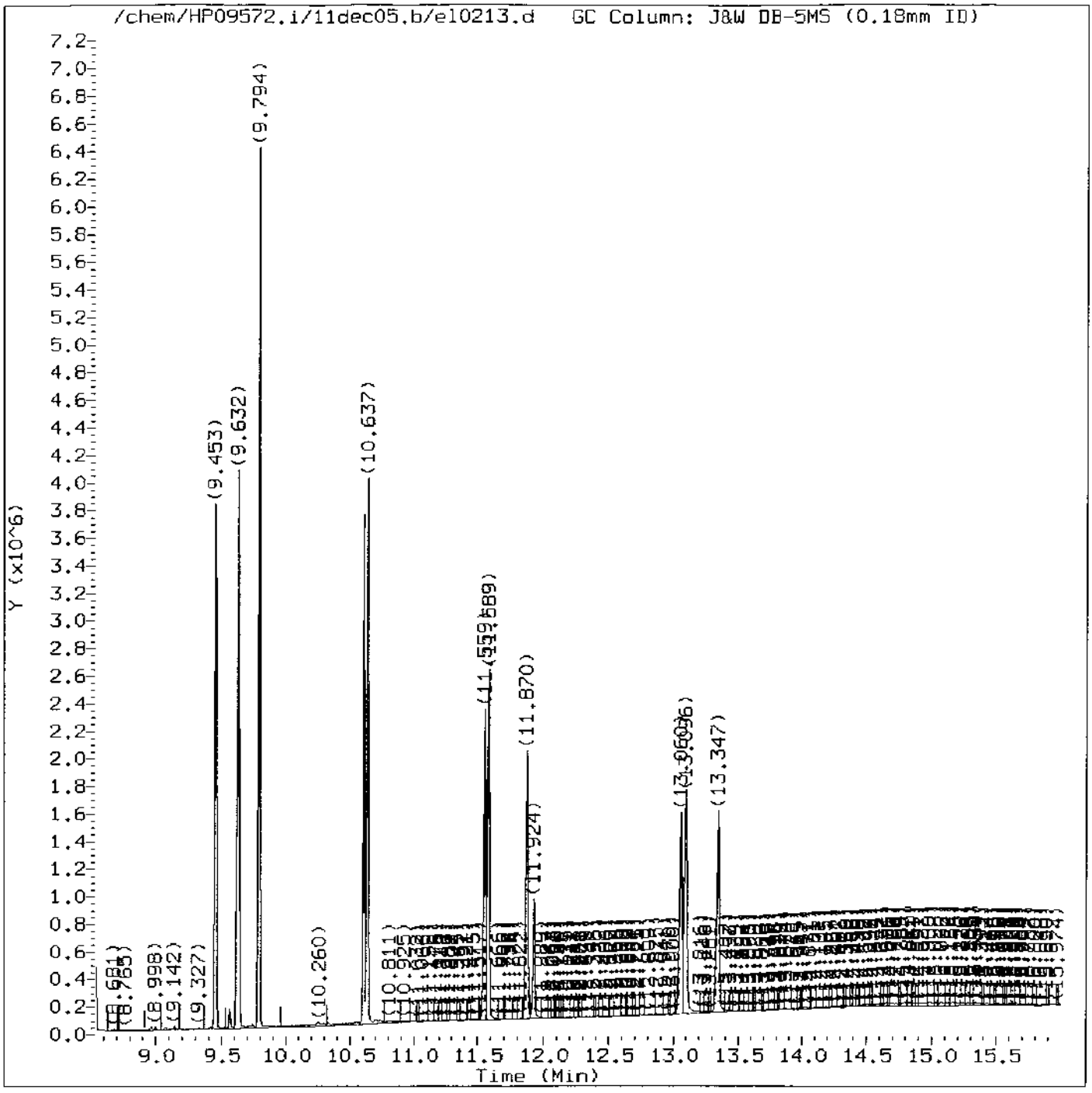
Data File: /chem/HP09572.i/11dec05.b/el0213.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 13:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 14:59 msw02109

Sample Name: XXXXXMSD Lab Sample ID: 6477563

PCH09 8851

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:09.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0213.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 13:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 14:59 msw02109

Sample Name: XXXXXMSD Lab Sample ID: 6477563

PCH09 8852

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:09.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0213.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 13:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 14:59 msw02109

Sample Name: XXXXXMSD Lab Sample ID: 6477563

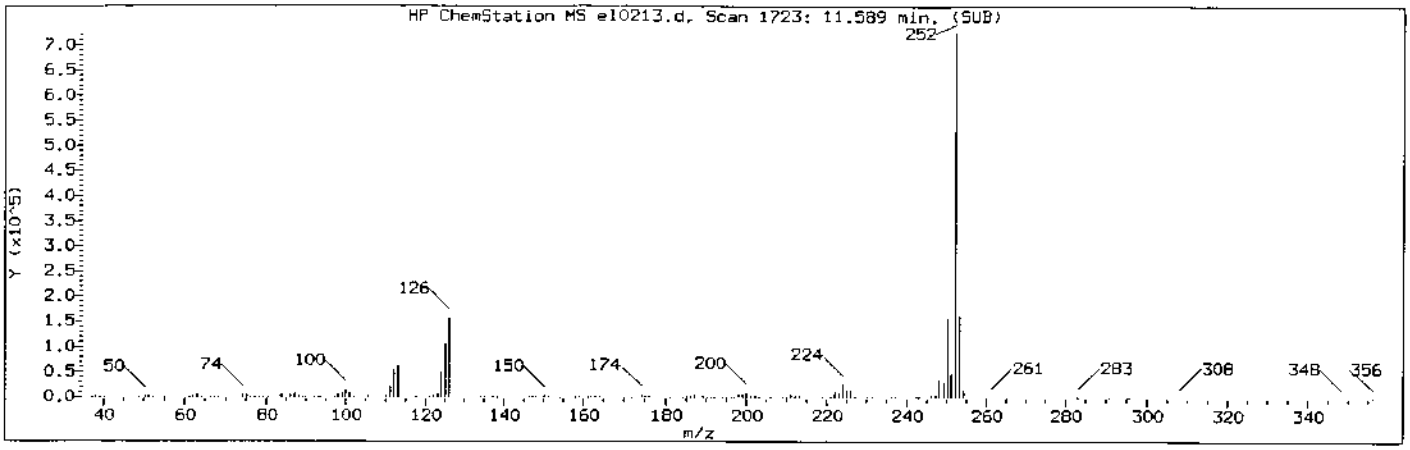
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.625	152	91147	20.000
38)$Nitrobenzene-d5	(2)	5.164	82	759003	86.378
52)*Naphthalene-d8	(2)	5.792	136	404741	20.000
53) Naphthalene	(2)	5.810	128	1035448	46.590
70) 2-Methylnaphthalene	(2)	6.408	142	704909	46.906
78)$2-Fluorobiphenyl	(3)	6.737	172	1499018	94.486
95) Acenaphthylene	(3)	7.150	152	1150548	52.638
98)*Acenaphthene-d10	(3)	7.269	164	262172	20.000
99) Acenaphthene	(3)	7.293	153	709441	47.973
111) Fluorene	(3)	7.718	166	871183	49.979
135)*Phenanthrene-d10	(4)	8.472	188	454381	20.000
137) Phenanthrene	(4)	8.496	178	1257891	48.419
138) Anthracene	(4)	8.538	178	1289566	50.319
147) Fluoranthene	(4)	9.453	202	1340453	53.575
167)*Pyrene-d10	(5)	9.620	212	504063	20.000
154) Pyrene	(5)	9.632	202	1346245	48.811
156)$Terphenyl-d14	(5)	9.794	244	1388065	91.291
166) Benzo(a)anthracene	(5)	10.607	228	1073174	50.408
168) Chrysene	(5)	10.637	228	1067773	48.639
172) Benzo(b)fluoranthene	(6)	11.559	252	941072	47.662
173) Benzo(k)fluoranthene	(6)	11.589	252	998546M	49.971
174) Benzo(a)pyrene	(6)	11.876	252	859420	49.167
175)*Perylene-d12	(6)	11.930	264	332340	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	13.060	276	747174	41.272
178) Dibenz(a,h)anthracene	(6)	13.096	278	812455	52.428
179) Benzo(g,h,i)perylene	(6)	13.347	276	778598	50.363

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

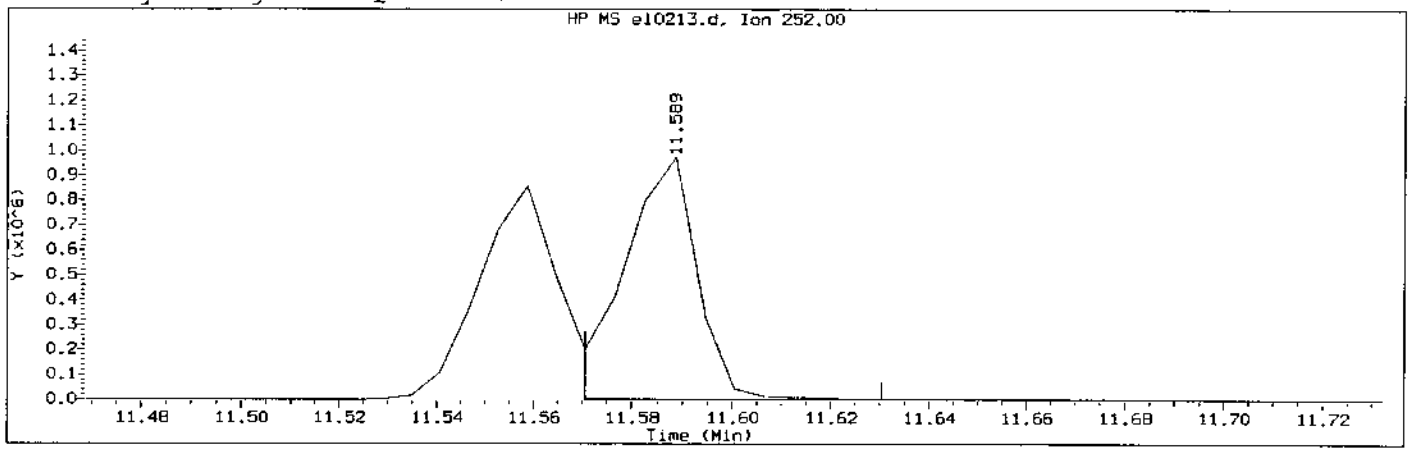
PCN89 8853

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:09.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10213.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 13:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 14:59 msw02109

Sample Name: XXXXXMSD Lab Sample ID: 6477563

Compound Number	: 173		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1723		
Retention Time (minutes)	: 11.589		
Quant Ion	: 252.00		
Area (flag)	: 998546M		
On-Column Amount (ng/ul)	: 49.9713		
Integration start scan	: 1719	Integration stop scan:	1729
Y at integration start	: 1502	Y at integration end:	1502

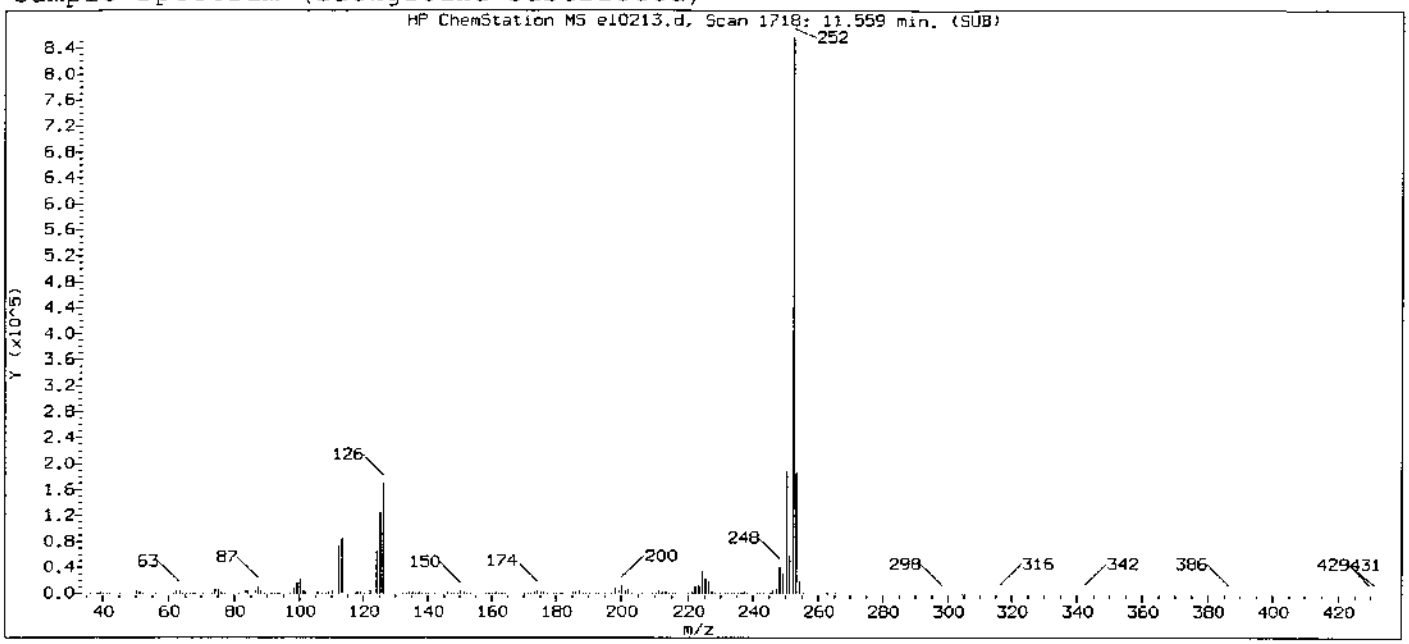
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/05/2011 at 15:09. Target 3.5 esignature user ID: msw02109

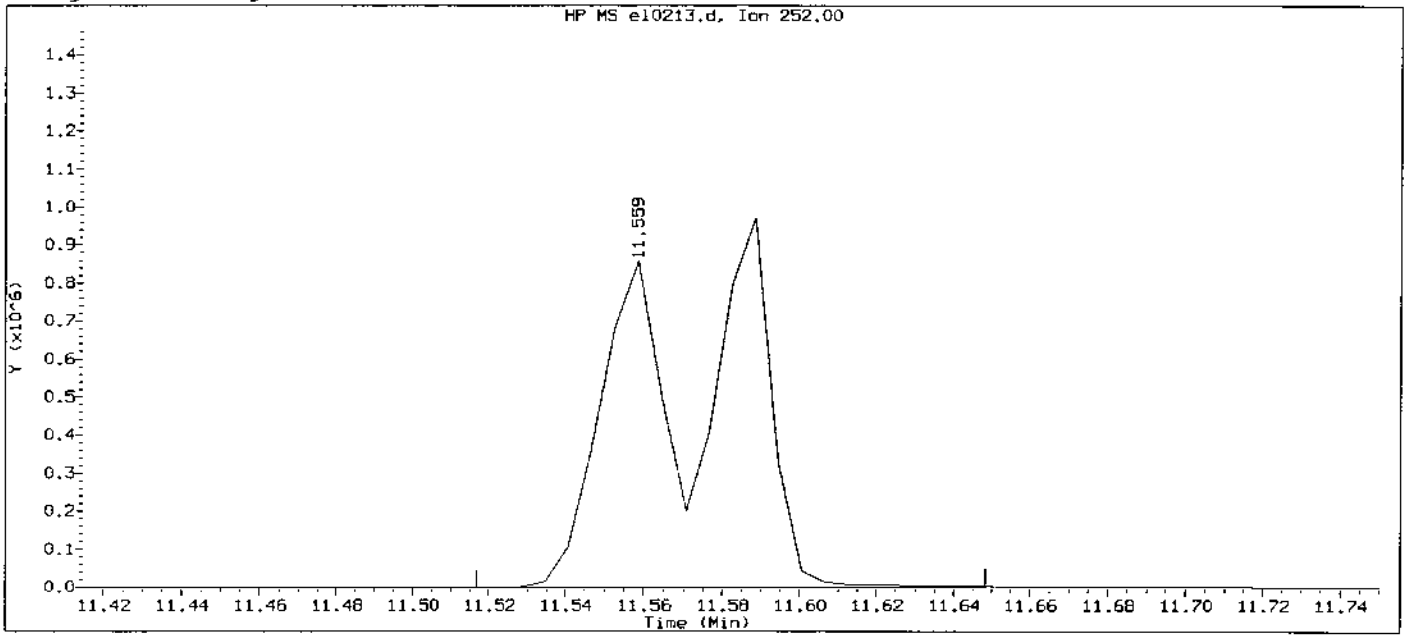
PCH09 8854

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42. Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10213.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 13:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 14:57 msw02109

Sample Name: XXXXXMSD Lab Sample ID: 6477563

Compound Number	: 173		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1718		
Retention Time (minutes)	: 11.559		
Quant Ion	: 252.00		
Area	: 1909906		
On-column Amount (ng/ul)	: 95.5793		
Integration start scan	: 1710	Integration stop scan:	1732
Y at integration start	: 0	Y at integration end:	490

PCH09 0055

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:09.
Target 3.5 esignature user ID: msw02109

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

325WKLCS5

Lab Name: Lancaster Laboratories Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 325WKLCS

Sample wt/vol: 1000 (g/mL)ML Lab File ID: e10203.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 11/22/11

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/11

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ UG/L	Q
91-20-3--------	Naphthalene		47	
91-57-6--------	2-Methylnaphthalene		47	
208-96-8-------	Acenaphthylene		53	
83-32-9--------	Acenaphthene		48	
86-73-7--------	Fluorene		50	
85-01-8--------	Phenanthrene		50	
120-12-7-------	Anthracene		52	
206-44-0-------	Fluoranthene		58	
129-00-0-------	Pyrene		49	
56-55-3--------	Benzo(a)anthracene		52	
218-01-9-------	Chrysene		53	
205-99-2-------	Benzo(b)fluoranthene		52	
207-08-9-------	Benzo(k)fluoranthene		52	
50-32-8--------	Benzo(a)pyrene		50	
193-39-5-------	Indeno(1,2,3-cd)pyrene		52	
53-70-3--------	Dibenz(a,h)anthracene		53	
191-24-2-------	Benzo(g,h,i)perylene		52	

PCH89 8856

325WKLCS5 Lancaster Labs Analysis Summary for GC/MS Semivolatiles 325WKLCS

Data file: /chem/HP09572.i/11dec05.b/el0203.d
Data file Sample Info. Line: 325WKLCS5;325WKLCS;
Date, time and analyst ID of latest file update: 05-Dec-2011 12:37 msw02109

Injection date and time: **05-DEC-2011 09:40**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/el0202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH2893**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/el0201.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	4.619(0.000)	558	152	88868 (-12)	20.00	
52) Naphthalene-d8	5.786(0.006)	753	136	386329 (-18)	20.00	
98) Acenaphthene-d10	7.264(0.000)	1000	164	251684 (-18)	20.00	
135) Phenanthrene-d10	8.472(0.000)	1202	188	438908 (-18)	20.00	
167) Pyrene-d10	9.615(0.000)	1393	212	531287 (-17)	20.00	
175) Perylene-d12	11.918(0.006)	1778	264	366742 (-18)	20.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.158(-0.001)	82	735019	87.636	88%		52 - 120
78) 2-Fluorobiphenyl	(3)	6.731(0.000)	172	1465831	96.244	96%		63 - 114
156) Terphenyl-d14	(5)	9.788(0.000)	244	1513261	94.425	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)
53) Naphthalene	(2)	5.810(-0.001)	128	997107	47.003	47.00			0.1
70) 2-Methylnaphthalene	(2)	6.408(-0.001)	142	667412	46.528	46.53			0.1
95) Acenaphthylene	(3)	7.144(0.000)	152	1113159	53.050	53.05			0.1
99) Acenaphthene	(3)	7.293(0.000)	153	679532	47.866	47.87			0.1
111) Fluorene	(3)	7.712(0.000)	166	832545	49.753	49.75			0.1
137) Phenanthrene	(4)	8.490(-0.000)	178	1258597	50.154	50.15			0.1
138) Anthracene	(4)	8.532(-0.000)	178	1276859	51.580	51.58			0.1
147) Fluoranthene	(4)	9.453(-0.000)	202	1389763	57.504	57.50			0.1
154) Pyrene	(5)	9.632(-0.000)	202	1423296	48.960	48.96			0.1
166) Benzo(a)anthracene	(5)	10.602(0.000)	228	1176278	52.420	52.42			0.1
168) Chrysene	(5)	10.632(0.000)	228	1224088	52.902	52.90			0.1
172) Benzo(b)fluoranthene	(6)	11.553(0.000)	252	1138244M	52.240	52.24			0.1
173) Benzo(k)fluoranthene	(6)	11.577(0.000)	252	1148719M	52.094	52.09			0.1
174) Benzo(a)pyrene	(6)	11.864(0.000)	252	967029	50.134	50.13			0.1
177) Indeno(1,2,3-cd)pyrene	(6)	13.048(-0.000)	276	1046714	52.395	52.39			0.1
178) Dibenz(a,h)anthracene	(6)	13.090(-0.000)	278	901558	52.721	52.72			0.1
179) Benzo(g,h,i)perylene	(6)	13.336(-0.000)	276	879209	51.536	51.54			0.1

M = Compound was manually integrated.

PCH09 8857

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:13. Target 3.5 esignature user ID: msw02109

Data file: /chem/HP09572.i/11dec05.b/e10203.d
Data file Sample Info. Line: 325WKLCS5;325WKLCS;
Date, time and analyst ID of latest file update: 05-Dec-2011 12:37 msw02109

Injection date and time: **05-DEC-2011 09:40**
Instrument ID: **HP09572.i** Batch: **11325WAK**

Blank Data file reference: **/chem/HP09572.i/11dec05.b/e10202.d**

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: **WPAH2893**
Calibration date and time (Last Method Edit): 05-DEC-2011 08:55
Mid Level Daily Calibration Standard Reference: **/chem/HP09572.i/11dec05.b/e10201.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

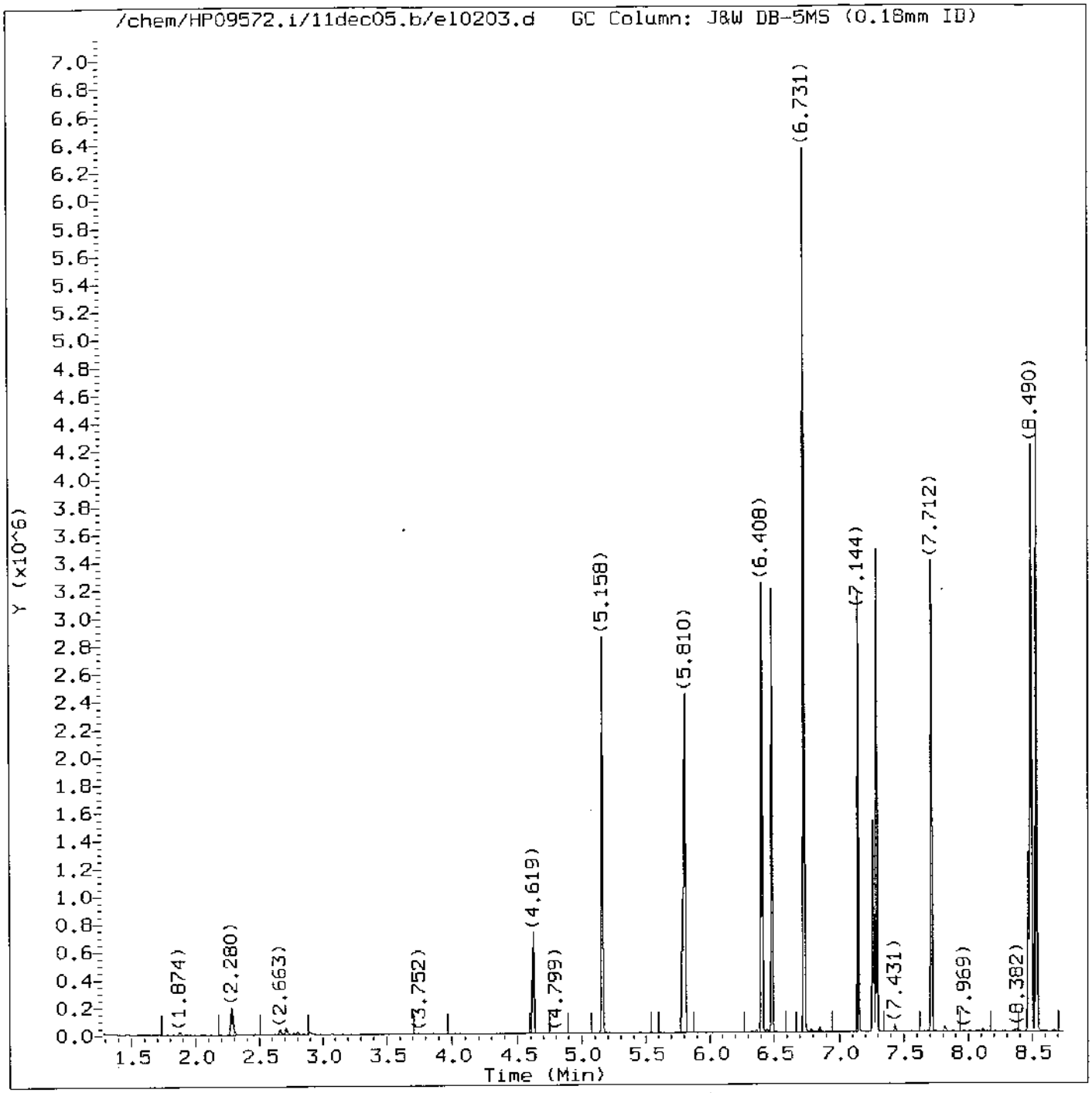
THIS SPACE
WAS LEFT
BLANK INTENTIONALLY

Total number of targets = 17

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:13. Target 3.5 esignature user ID: msw02109

PCH09 5858

Secondary review performed and digitally signed by Christine M. Ratcliffe on 12/07/2011 at 12:42. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0203.d
Injection date and time: 05-DEC-2011 09:40

Instrument ID: HP09572.i
Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m
Calibration date and time: 05-DEC-2011 08:55

Sublist used: WPAH2893

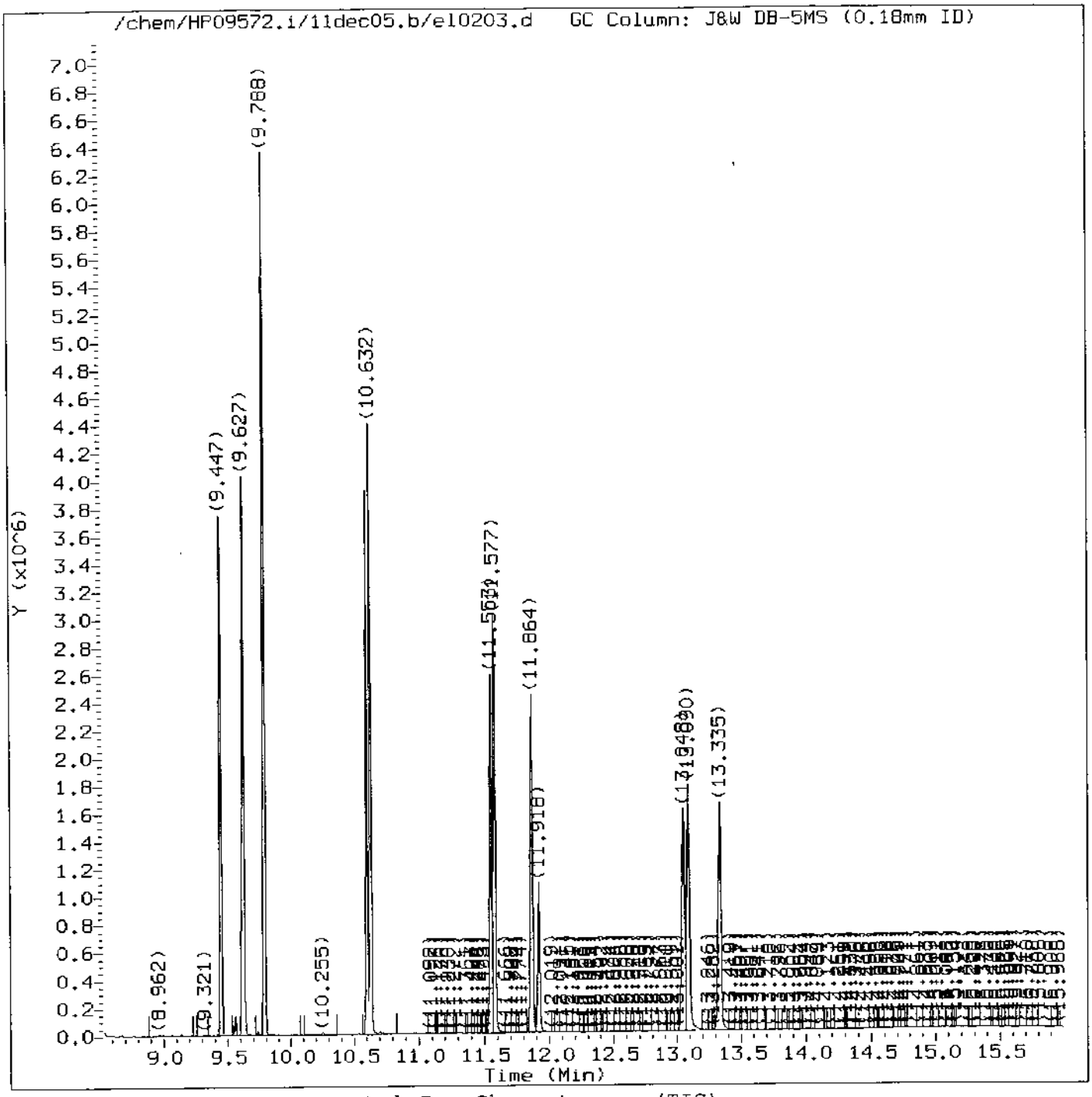
Date, time and analyst ID of latest file update: 05-Dec-2011 12:37 msw02109

Sample Name: 325WKLCS5

Lab Sample ID: 325WKLCS

PCH89 0855

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:13.
Target 3.5 esignature user ID: msw02109



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/e10203.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 09:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 12:37 msw02109

Sample Name: 325WKLCS5 Lab Sample ID: 325WKLCS

PCH09 8868

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:13.
Target 3.5 esignature user ID: msw02109

Quant Report

Target Revision 3.5

Data File: /chem/HP09572.i/11dec05.b/el0203.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 09:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 12:37 msw02109

Sample Name: 325WKLCS5 Lab Sample ID: 325WKLCS

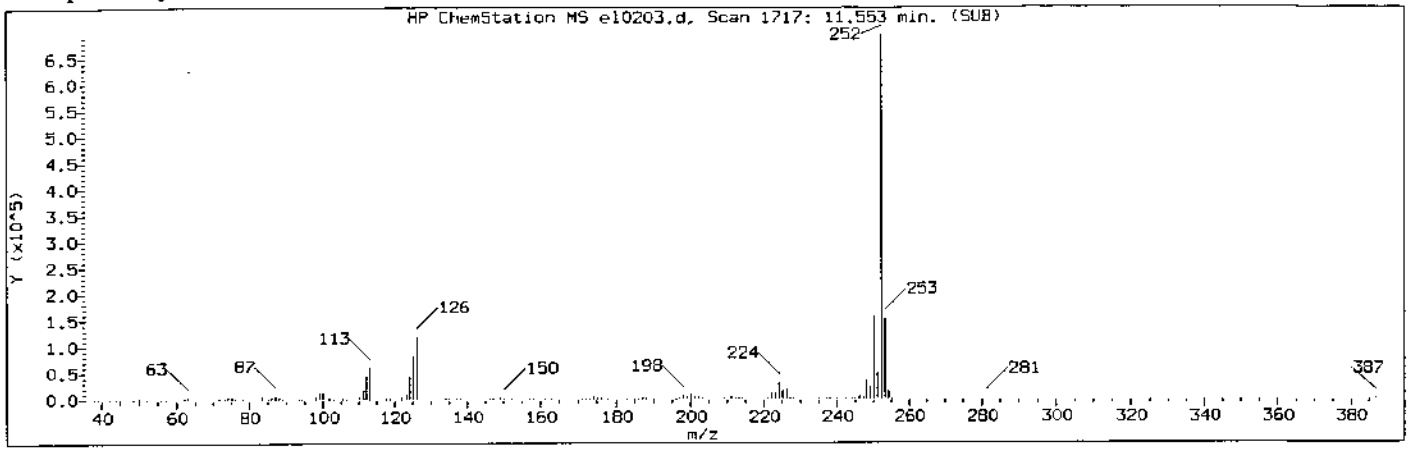
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng/ul)
21)*1,4-Dichlorobenzene-d4	(1)	4.619	152	88868	20.000
38)$Nitrobenzene-d5	(2)	5.158	82	735019	87.636
52)*Naphthalene-d8	(2)	5.786	136	386329	20.000
53) Naphthalene	(2)	5.810	128	997107	47.003
70) 2-Methylnaphthalene	(2)	6.408	142	667412	46.528
78)$2-Fluorobiphenyl	(3)	6.731	172	1465831	96.244
95) Acenaphthylene	(3)	7.144	152	1113159	53.050
98)*Acenaphthene-d10	(3)	7.264	164	251684	20.000
99) Acenaphthene	(3)	7.293	153	679532	47.866
111) Fluorene	(3)	7.712	166	832545	49.753
135)*Phenanthrene-d10	(4)	8.472	188	438908	20.000
137) Phenanthrene	(4)	8.490	178	1258597	50.154
138) Anthracene	(4)	8.532	178	1276859	51.580
147) Fluoranthene	(4)	9.453	202	1389763	57.504
167)*Pyrene-d10	(5)	9.615	212	531287	20.000
154) Pyrene	(5)	9.633	202	1423296	48.960
156)$Terphenyl-d14	(5)	9.788	244	1513261	94.425
166) Benzo(a)anthracene	(5)	10.602	228	1176278	52.420
168) Chrysene	(5)	10.632	228	1224088	52.902
172) Benzo(b)fluoranthene	(6)	11.553	252	1138244M	52.240
173) Benzo(k)fluoranthene	(6)	11.577	252	1148719M	52.094
174) Benzo(a)pyrene	(6)	11.864	252	967029	50.134
175)*Perylene-d12	(6)	11.918	264	366742	20.000
177) Indeno(1,2,3-cd)pyrene	(6)	13.048	276	1046714	52.395
178) Dibenz(a,h)anthracene	(6)	13.090	278	901558	52.721
179) Benzo(g,h,i)perylene	(6)	13.335	276	879209	51.536

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

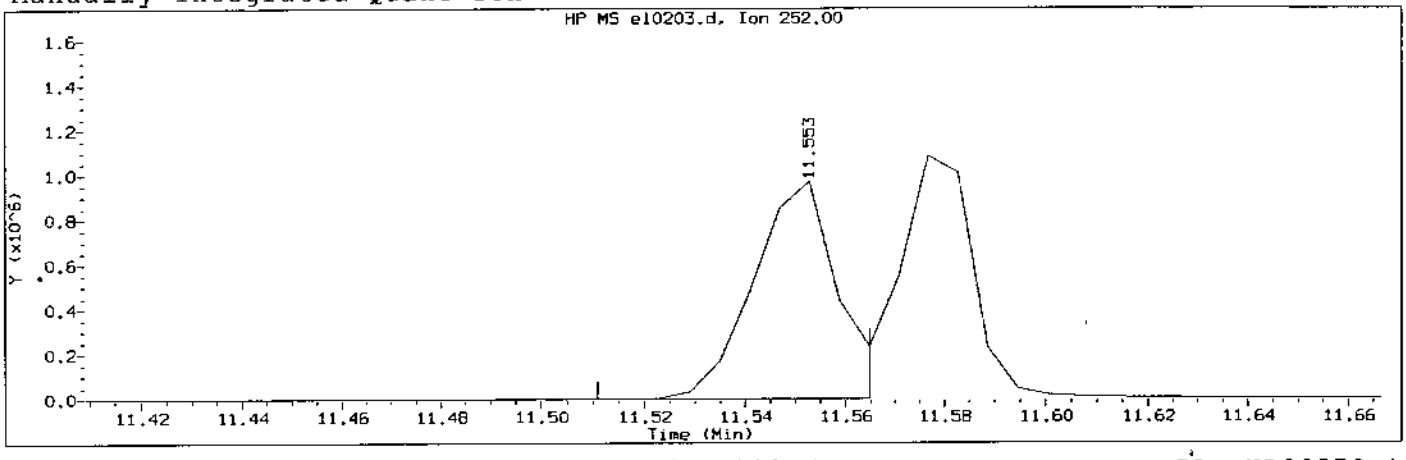
PCH89 8961

Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:13.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0203.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 09:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 12:37 msw02109

Sample Name: 325WKLCS5 Lab Sample ID: 325WKLCS

Compound Number	: 172		
Compound Name	: Benzo(b)fluoranthene		
Scan Number	: 1717		
Retention Time (minutes)	: 11.553		
Quant Ion	: 252.00		
Area (flag)	: 1138244M		
On-Column Amount (ng/ul)	: 52.2400		
Integration start scan	: 1709	Integration stop scan:	1718
Y at integration start	: 0	Y at integration end:	251

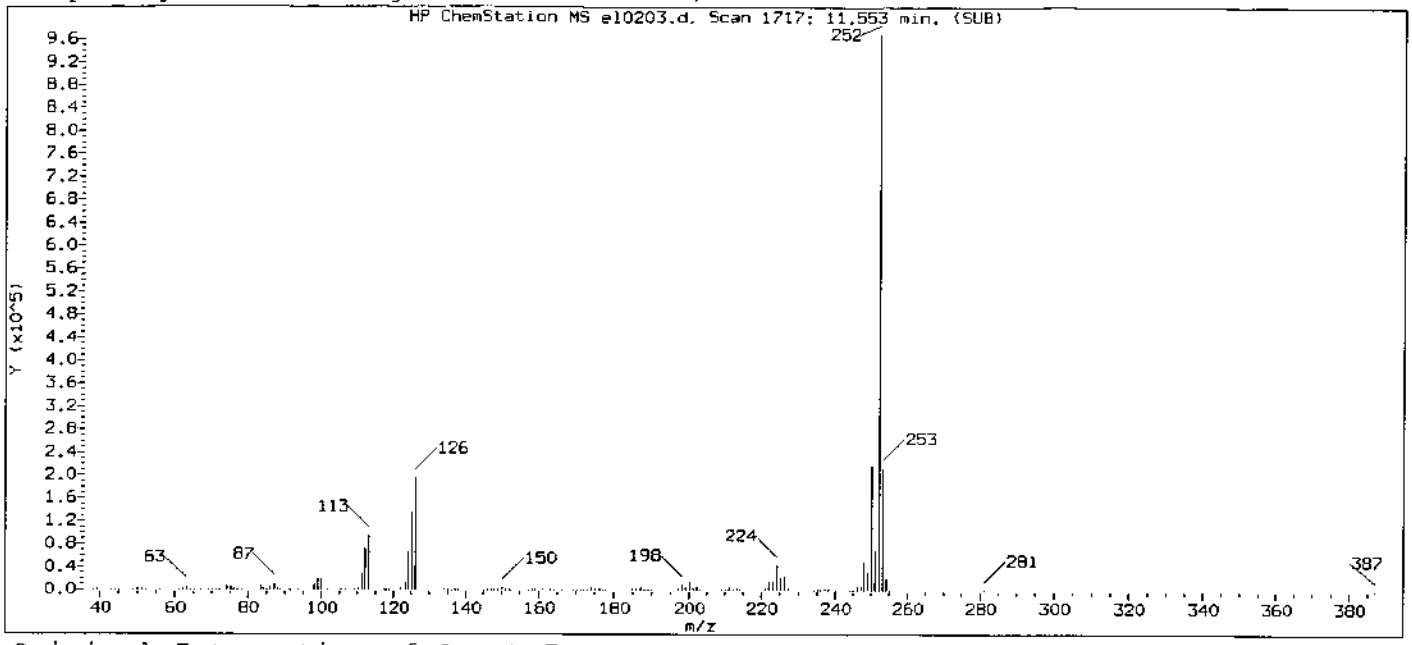
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods
on 12/05/2011 at 15:13.
Target 3.5 esignature user ID: msw02109

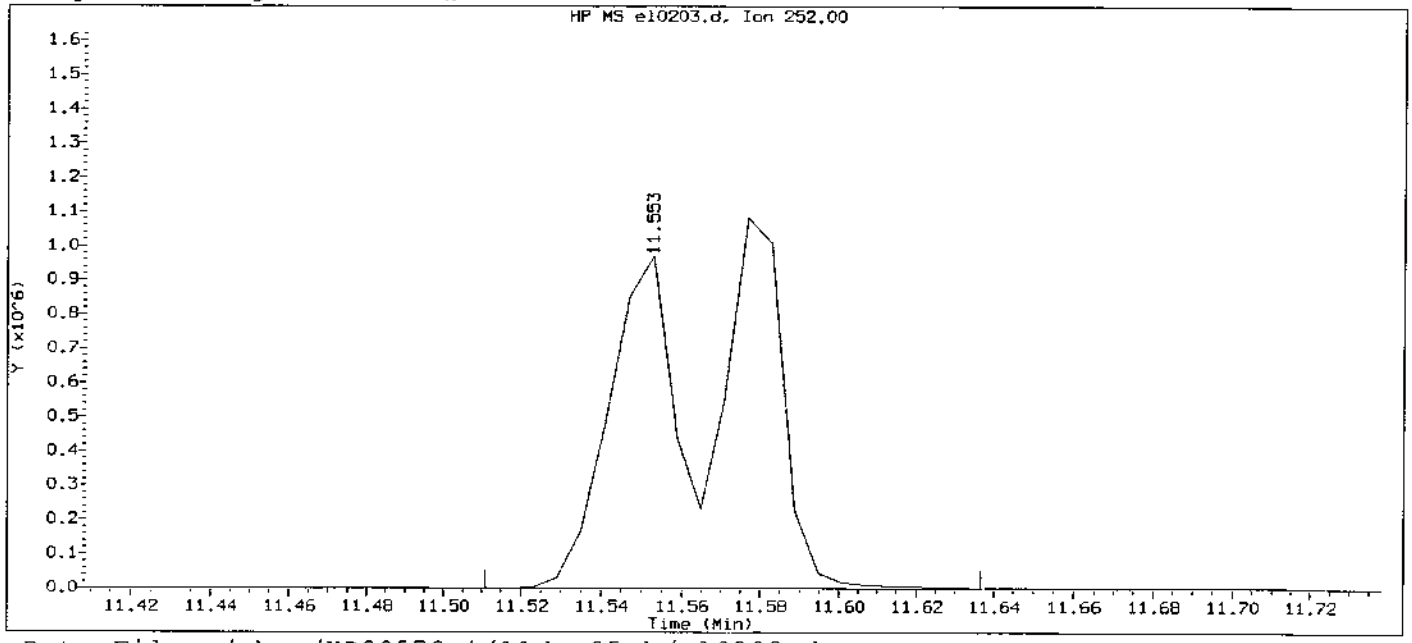
PCH09 8862

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10203.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 09:40 Analyst ID: msw02109

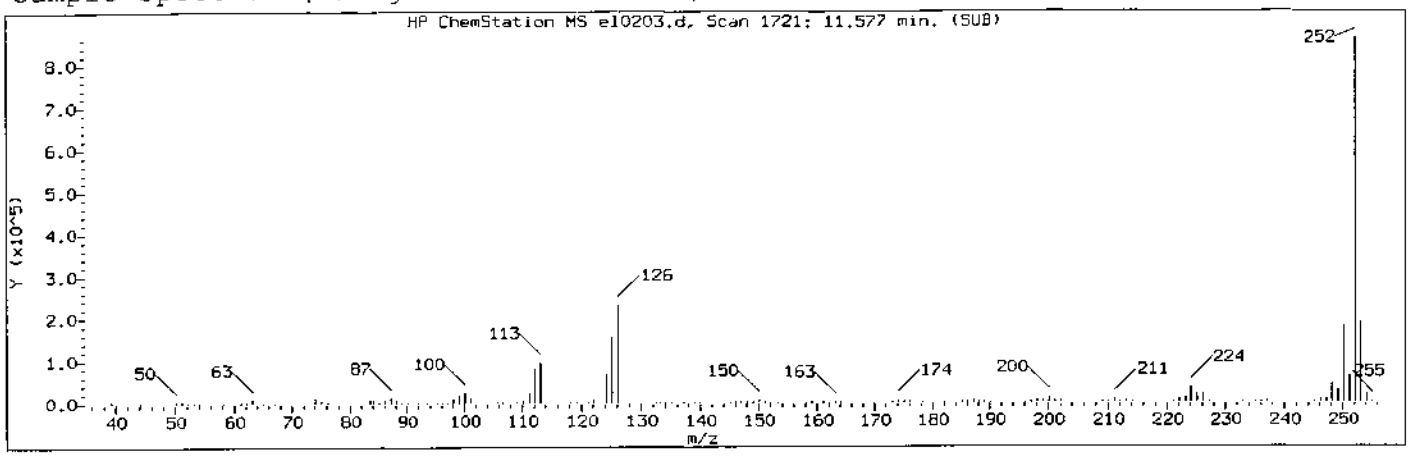
Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 12:35 msw02109

Sample Name: 325WKLCS5 Lab Sample ID: 325WKLCS

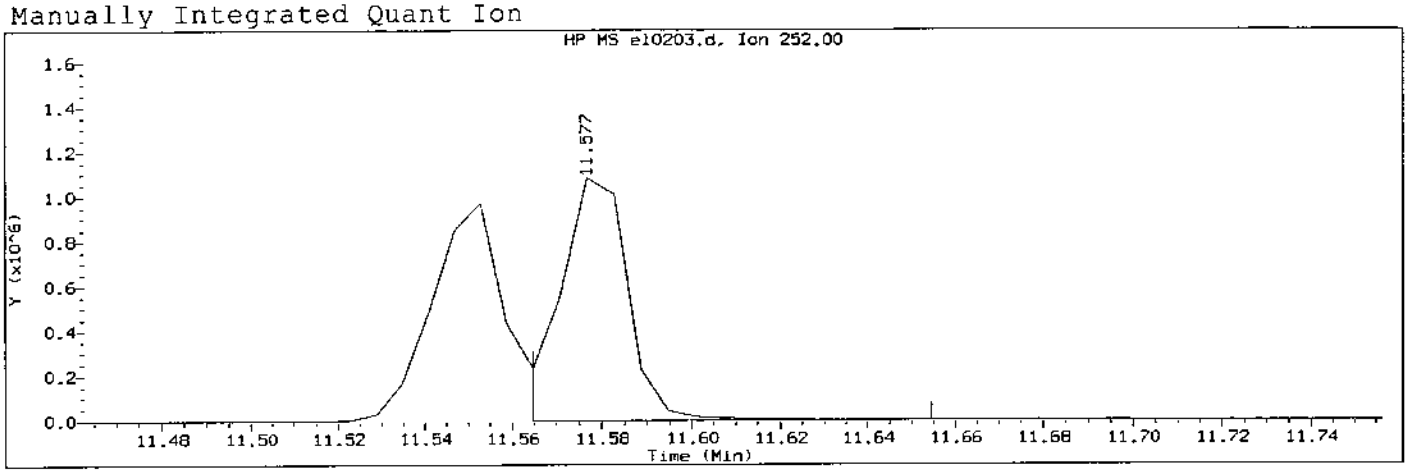
Compound Number : 172
Compound Name : Benzo(b)fluoranthene
Scan Number : 1717
Retention Time (minutes) : 11.553
Quant Ion : 252.00
Area : 2200300
On-column Amount (ng/ul) : 100.9831 PCN89 8863
Integration start scan : 1709 Integration stop scan: 1730
Y at integration start : 0 Y at integration end: 586

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:13.
Target 3.5 esignature user ID: msw02109

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09572.i/11dec05.b/el0203.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 09:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 12:37 msw02109

Sample Name: 325WKLCS5 Lab Sample ID: 325WKLCS

Compound Number	: 173		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1721		
Retention Time (minutes)	: 11.577		
Quant Ion	: 252.00		
Area (flag)	: 1148719M		
On-Column Amount (ng/ul)	: 52.0941		
Integration start scan	: 1718	Integration stop scan:	1733
Y at integration start	: 247	Y at integration end:	247

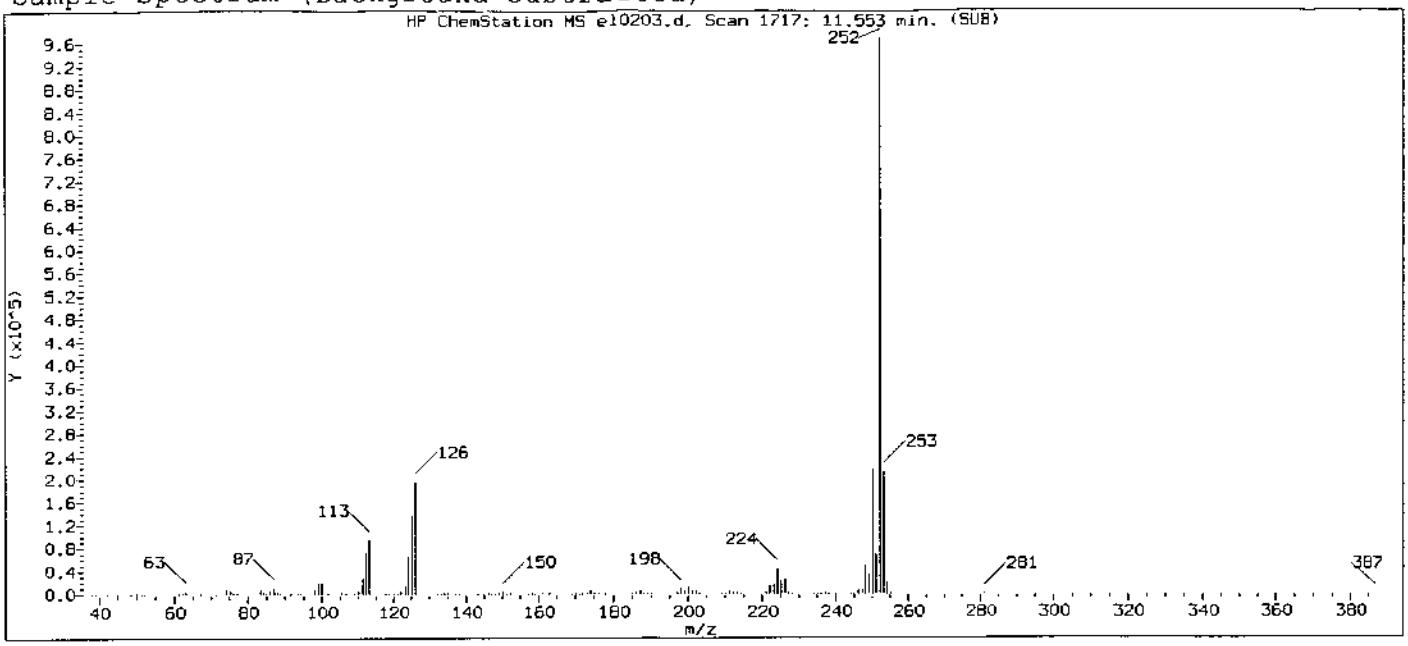
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Matthew S. Woods on 12/05/2011 at 15:13. Target 3.5 esignature user ID: msw02109

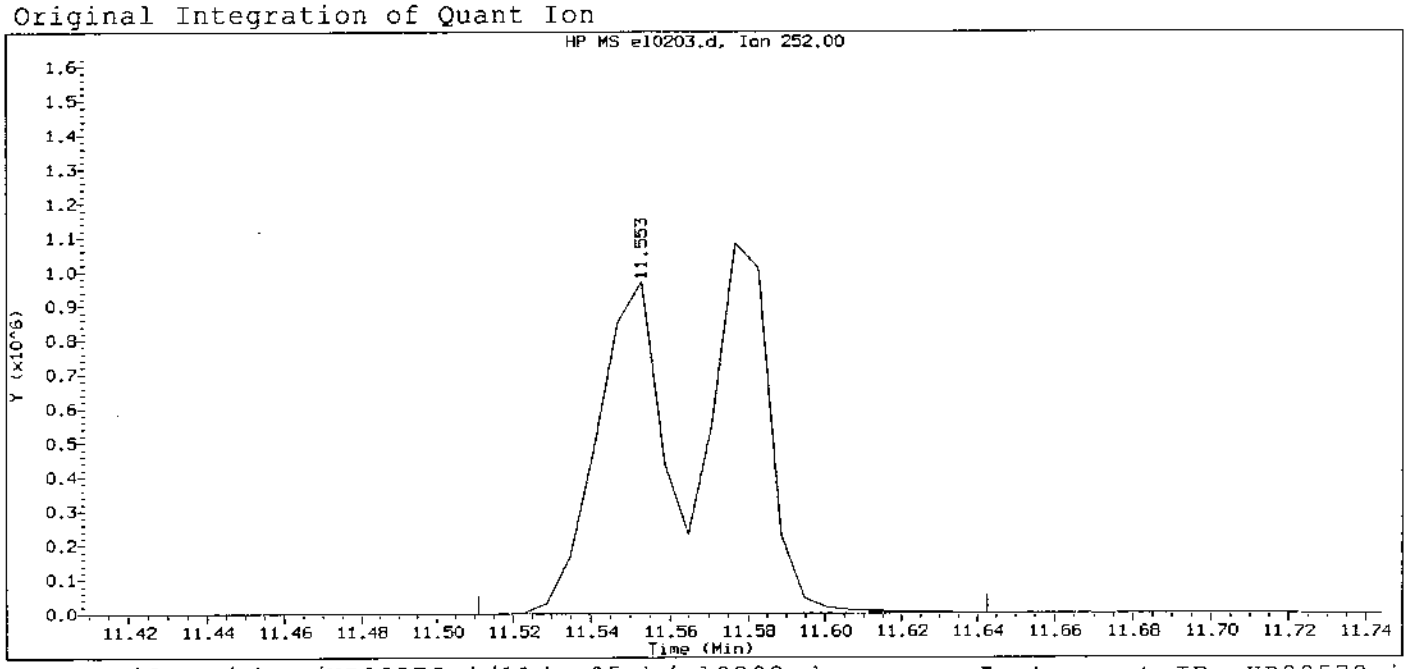
PCH89 8864

Secondary review performed and digitally signed by Christine M. Ratcliff on 12/07/2011 at 12:42.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09572.i/11dec05.b/e10203.d Instrument ID: HP09572.i
Injection date and time: 05-DEC-2011 09:40 Analyst ID: msw02109

Method used: /chem/HP09572.i/11dec05.b/mnew8270.m Sublist used: WPAH2893
Calibration date and time: 05-DEC-2011 08:55
Date, time and analyst ID of latest file update: 05-Dec-2011 12:35 msw02109

Sample Name: 325WKLCS5 Lab Sample ID: 325WKLCS

Compound Number	: 173
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1717
Retention Time (minutes)	: 11.553
Quant Ion	: 252.00
Area	: 2201249
On-column Amount (ng/ul)	: 99.8258
Integration start scan	: 1709 Integration stop scan: 1731
Y at integration start	: 0 Y at integration end: 544

PCH69 8865

Digitally signed by Matthew S. Woods on 12/05/2011 at 15:13.
Target 3.5 esignature user ID: msw02109

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog Assigned to: 1703 Kerrie Freeburn Reviewed by: MSW 2109 Start Date: 11-22-11 Start time: 9:30

11325WAK026 Tech 1: KF1703 Tech 2: 0052857

Dept: 26 Prep Analysis: 07807 BNA Water Extraction PAHs in Water by GC/MS

QC	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH 2	BC	Comments
6477562MS	PAT01	1010	SS1130626A	1.0	MS1128626A	1.0	1.0	N/A	✓	43A	yellow tint
6477563MSD	PAT01	1035	SS1130626A	1.0	MS1128626A	1.0	1.0	↓	✓	43A	↓
BLANKA	SBLKWK325	1000	SS1130626A	1.0			1.0	↓	✓	—	Tap H_2O
LCSA	LCSWK325	1000	SS1130626A	1.0	MS1128626A	1.0	1.0	↓	✓	—	↓

Solvent Used	Lot No.
Methylene Chloride	115543
Sodium Sulfate	113260A
Sulfuric Acid	111856

Spike Solutions: Witness:

MS1128626A PAH SPIKE - BY GCMS

SS1132126C ~~SS1130626A~~ KF1703 11-22-11 PAH SURROGATE STD. - BY GC

Sample #	Sample Code	Amt (mL)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH 2	BC	Comments	Analyses	Due Date	Prio
1 6476633	C160B	951	SS1130626A	1.0	1.0	N/A	✓	43A	brown tint	07805	12/02/2011	P
2 6476634	C160C	993	SS1130626A	1.0	1.0	↓	✓	43A	↓	07805	12/02/2011	P
3 6476635	C160D	957	SS1130626A	1.0	1.0	↓	✓	43A	↓	07805	12/02/2011	P
4 6477561BKG	PAT01	1034	SS1130626A	1.0	1.0	↓	✓	43A	Yellow tint	07805	12/05/2011	P
5 6477564	PAT03	1014	SS1130626A	1.0	1.0	↓	✓	43A	↓	07805	12/05/2011	P
6 6477565	PAT8D	1023	SS1130626A	1.0	1.0	↓	✓	43A	gray tint	07805	12/05/2011	P
7 6477566	PAT8S	1052	SS1130626A	1.0	1.0	↓	✓	43A	brown tint	07805	12/05/2011	P
8 6477567	PATFD	1049	SS1130626A	1.0	1.0	↓	✓	43A	Clear	07805	12/05/2011	P
9 6477568	PAT9S	1050	SS1130626A	1.0	1.0	↓	✓	43A	Yellow tint	07805	12/05/2011	P
10 6477569	PAT9D	1003	SS1130626A	1.0	1.0	↓	✓	43A	↓	07805	12/05/2011	P
11 6477570	PAT4S	1046	SS1130626A	1.0	1.0	↓	✓	43A	↓	07805	12/05/2011	P
12 6477571	PAT4D	1049	SS1130626A	1.0	1.0	↓	✓	43A	↓	07805	12/05/2011	P
13 6477572	PATFB	1048	SS1130626A	1.0	1.0	↓	✓	43A	Clear	07805	12/05/2011	P
14 6477573	PAT7S	1003	SS1130626A	1.0	1.0	↓	✓	43A	orange tint	07805	12/05/2011	P
15 6477574	PAT7D	1048	SS1130626A	1.0	1.0	↓	✓	43A	Clear	07805	12/05/2011	P
16 6477575	PAT2D	994	SS1130626A	1.0	1.0	↓	✓	43A	↓	07805	12/05/2011	P
17 6477576	PAT2S	1048	SS1130626A	1.0	1.0	↓	✓	43A	↓	07805	12/05/2011	P
18 6477683	WBS08	1003	~~SS1130626A~~	1.0	1.0	↓	✓	43A	↓	07805	12/02/2011	P

Dilutions prepared using Mech lot #115543 MSW 2109 12/6/11

Rack ID:		Work Station	H2OBench3
Internal Standard	UH8248	Balance #	15661

S-bath ID	87 C	S-bath ID	89 C	N-Evap — C	M-vap — C	11325WAK026

Documented temps are NIST corrected.

DF = Dilution Factor FV = Final Volume