ANALYTICAL REPORT

Job Number: 680-87279-1

SDG Number: 68087279-1

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
2/20/2013 2:14 PM

Designee for
Lisa Harvey
Project Manager II
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02/20/2013

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Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Method Summary 6

Method / Analyst Summary 7

Data Qualifiers 8

QC Association Summary 9

Manual Integration Summary 12

Organic Sample Data 27

GC/MS Semi VOA 27

Method 8270C Low Level 27

Method 8270C Low Level QC Summary 28

Method 8270C Low Level Sample Data 58

Standards Data 471

Method 8270C Low Level ICAL Data 471

Method 8270C Low Level CCAL Data 534

Raw QC Data 565

Method 8270C Low Level Tune Data 565

Method 8270C Low Level Blank Data 600

Method 8270C Low Level LCS/LCSD Data 606

Method 8270C Low Level MS/MSD Data 616

Method 8270C Low Level Run Logs 636

Method 8270C Low Level Prep Data 646

Inorganic Sample Data 650

General Chemistry Data 650

Table of Contents

Gen Chem Cover Page 651
Gen Chem MDL 652
Gen Chem Analysis Run Log 654
Gen Chem Prep Data 656
Shipping and Receiving Documents 658
Client Chain of Custody 659
Sample Receipt Checklist 662

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87279-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/08/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0018B-CS (680-87279-1), FM0018C-CS (680-87279-2), FM0034B-CS (680-87279-3), FM0123B-CS (680-87279-4), FM0138A-CS (680-87279-5), FM0138B-CS (680-87279-6), FM0139A-CS (680-87279-7), FM0139B-CS (680-87279-8), FM0139C-CS (680-87279-9), FM0153A-CS (680-87279-10), CV0748X-CS (680-87279-11), CV0748Z-CS (680-87279-12), CV0748FF-CS (680-87279-14), CV0748GG-CS (680-87279-15), CV0748HH-CS (680-87279-16), CV0748KK-CS (680-87279-17), CV0748LL-CS (680-87279-18), CV0748MM-CS (680-87279-19) and CV0748PP-CS (680-87279-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/13/2013 and 02/14/2013 and analyzed on 02/14/2013, 02/15/2013 and 02/18/2013.

Samples FM0018C-CS (680-87279-2)[4X], FM0139A-CS (680-87279-7)[4X], FM0139A-CS (680-87279-7)[40X], CV0748X-CS (680-87279-11)[4X], CV0748Z-CS (680-87279-12)[4X], CV0748GG-CS (680-87279-15)[4X] and CV0748HH-CS (680-87279-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-87218-45 in batch 660-134523. Benzo[k]fluoranthene exceeded the rpd limit.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87279-1
Sdg Number: 68087279-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87279-1	FM0018B-CS	Solid	02/06/2013 0855	02/08/2013 0916
680-87279-2	FM0018C-CS	Solid	02/06/2013 0859	02/08/2013 0916
680-87279-3	FM0034B-CS	Solid	02/06/2013 1024	02/08/2013 0916
680-87279-4	FM0123B-CS	Solid	02/06/2013 0837	02/08/2013 0916
680-87279-5	FM0138A-CS	Solid	02/06/2013 1040	02/08/2013 0916
680-87279-6	FM0138B-CS	Solid	02/06/2013 1043	02/08/2013 0916
680-87279-6MS	FM0138B-CS	Solid	02/06/2013 1043	02/08/2013 0916
680-87279-6MSD	FM0138B-CS	Solid	02/06/2013 1043	02/08/2013 0916
680-87279-7	FM0139A-CS	Solid	02/06/2013 1124	02/08/2013 0916
680-87279-8	FM0139B-CS	Solid	02/06/2013 1130	02/08/2013 0916
680-87279-9	FM0139C-CS	Solid	02/06/2013 1135	02/08/2013 0916
680-87279-10	FM0153A-CS	Solid	02/06/2013 1002	02/08/2013 0916
680-87279-11	CV0748X-CS	Solid	02/06/2013 0854	02/08/2013 0916
680-87279-12	CV0748Z-CS	Solid	02/06/2013 0909	02/08/2013 0916
680-87279-14	CV0748FF-CS	Solid	02/06/2013 0949	02/08/2013 0916
680-87279-15	CV0748GG-CS	Solid	02/06/2013 0952	02/08/2013 0916
680-87279-16	CV0748HH-CS	Solid	02/06/2013 1010	02/08/2013 0916
680-87279-17	CV0748KK-CS	Solid	02/06/2013 1041	02/08/2013 0916
680-87279-18	CV0748LL-CS	Solid	02/06/2013 1048	02/08/2013 0916
680-87279-19	CV0748MM-CS	Solid	02/06/2013 1050	02/08/2013 0916
680-87279-20	CV0748PP-CS	Solid	02/06/2013 1110	02/08/2013 0916

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87279-1
Sdg Number: 68087279-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87279-1
Sdg Number: 68087279-1

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AG

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87279-1
Sdg Number: 68087279-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87279-1
Sdg Number: 68087279-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134445					
LCS 660-134445/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134445/1-A	Method Blank	T	Solid	3546	
680-87218-A-45-B MS	Matrix Spike	T	Solid	3546	
680-87218-A-45-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87279-1	FM0018B-CS	T	Solid	3546	
680-87279-2	FM0018C-CS	T	Solid	3546	
680-87279-3	FM0034B-CS	T	Solid	3546	
680-87279-4	FM0123B-CS	T	Solid	3546	
680-87279-5	FM0138A-CS	T	Solid	3546	
680-87279-7	FM0139A-CS	T	Solid	3546	
680-87279-7DL	FM0139A-CS	T	Solid	3546	
680-87279-8	FM0139B-CS	T	Solid	3546	
680-87279-9	FM0139C-CS	T	Solid	3546	
680-87279-10	FM0153A-CS	T	Solid	3546	
680-87279-11	CV0748X-CS	T	Solid	3546	
680-87279-12	CV0748Z-CS	T	Solid	3546	
680-87279-14	CV0748FF-CS	T	Solid	3546	
680-87279-15	CV0748GG-CS	T	Solid	3546	
680-87279-16	CV0748HH-CS	T	Solid	3546	
Prep Batch: 660-134455					
LCS 660-134455/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134455/1-A	Method Blank	T	Solid	3546	
680-87279-6	FM0138B-CS	T	Solid	3546	
680-87279-6MS	Matrix Spike	T	Solid	3546	
680-87279-6MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87279-17	CV0748KK-CS	T	Solid	3546	
680-87279-18	CV0748LL-CS	T	Solid	3546	
680-87279-19	CV0748MM-CS	T	Solid	3546	
680-87279-20	CV0748PP-CS	T	Solid	3546	
Analysis Batch:660-134493					
680-87279-15	CV0748GG-CS	T	Solid	8270C LL	660-134445

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87279-1
Sdg Number: 68087279-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134523					
LCS 660-134445/2-A	Lab Control Sample	T	Solid	8270C LL	660-134445
MB 660-134445/1-A	Method Blank	T	Solid	8270C LL	660-134445
680-87218-A-45-B MS	Matrix Spike	T	Solid	8270C LL	660-134445
680-87218-A-45-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134445
680-87279-1	FM0018B-CS	T	Solid	8270C LL	660-134445
680-87279-2	FM0018C-CS	T	Solid	8270C LL	660-134445
680-87279-3	FM0034B-CS	T	Solid	8270C LL	660-134445
680-87279-4	FM0123B-CS	T	Solid	8270C LL	660-134445
680-87279-5	FM0138A-CS	T	Solid	8270C LL	660-134445
680-87279-7	FM0139A-CS	T	Solid	8270C LL	660-134445
680-87279-8	FM0139B-CS	T	Solid	8270C LL	660-134445
680-87279-9	FM0139C-CS	T	Solid	8270C LL	660-134445
680-87279-10	FM0153A-CS	T	Solid	8270C LL	660-134445
680-87279-11	CV0748X-CS	T	Solid	8270C LL	660-134445
680-87279-12	CV0748Z-CS	T	Solid	8270C LL	660-134445
680-87279-14	CV0748FF-CS	T	Solid	8270C LL	660-134445
Analysis Batch:660-134530					
680-87279-7DL	FM0139A-CS	T	Solid	8270C LL	660-134445
680-87279-16	CV0748HH-CS	T	Solid	8270C LL	660-134445
Analysis Batch:660-134532					
LCS 660-134455/2-A	Lab Control Sample	T	Solid	8270C LL	660-134455
MB 660-134455/1-A	Method Blank	T	Solid	8270C LL	660-134455
680-87279-6	FM0138B-CS	T	Solid	8270C LL	660-134455
680-87279-6MS	Matrix Spike	T	Solid	8270C LL	660-134455
680-87279-6MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134455
680-87279-20	CV0748PP-CS	T	Solid	8270C LL	660-134455
Analysis Batch:660-134598					
680-87279-17	CV0748KK-CS	T	Solid	8270C LL	660-134455
680-87279-18	CV0748LL-CS	T	Solid	8270C LL	660-134455
680-87279-19	CV0748MM-CS	T	Solid	8270C LL	660-134455

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87279-1
Sdg Number: 68087279-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134336					
LCS 660-134336/1	Lab Control Sample	T	Solid	Moisture	
680-87279-1	FM0018B-CS	T	Solid	Moisture	
680-87279-2	FM0018C-CS	T	Solid	Moisture	
680-87279-3	FM0034B-CS	T	Solid	Moisture	
680-87279-4	FM0123B-CS	T	Solid	Moisture	
680-87279-5	FM0138A-CS	T	Solid	Moisture	
680-87279-A-6 MSMS	Matrix Spike	T	Solid	Moisture	
680-87279-6	FM0138B-CS	T	Solid	Moisture	
680-87279-6MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87279-7	FM0139A-CS	T	Solid	Moisture	
680-87279-8	FM0139B-CS	T	Solid	Moisture	
680-87279-9	FM0139C-CS	T	Solid	Moisture	
680-87279-10	FM0153A-CS	T	Solid	Moisture	
680-87279-11	CV0748X-CS	T	Solid	Moisture	
680-87279-12	CV0748Z-CS	T	Solid	Moisture	
680-87279-14	CV0748FF-CS	T	Solid	Moisture	
680-87279-15	CV0748GG-CS	T	Solid	Moisture	
680-87279-16	CV0748HH-CS	T	Solid	Moisture	
680-87279-17	CV0748KK-CS	T	Solid	Moisture	
680-87279-18	CV0748LL-CS	T	Solid	Moisture	
680-87279-19	CV0748MM-CS	T	Solid	Moisture	
Analysis Batch:660-134338					
LCS 660-134338/1	Lab Control Sample	T	Solid	Moisture	
680-87279-20	CV0748PP-CS	T	Solid	Moisture	
680-87279-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-87279-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Analysis Batch Number: 133924

Lab Sample ID: ICIS 660-133924/3 Client Sample ID:

Date Analyzed: 01/30/13 11:38 Lab File ID: 1AA30003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	01/30/13 12:17

Lab Sample ID: IC 660-133924/4 Client Sample ID:

Date Analyzed: 01/30/13 12:04 Lab File ID: 1AA30004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	4.51	Baseline Event	cantins	01/30/13 13:28
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	01/30/13 13:28

Lab Sample ID: IC 660-133924/5 Client Sample ID:

Date Analyzed: 01/30/13 12:19 Lab File ID: 1AA30005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	01/30/13 13:29

Lab Sample ID: IC 660-133924/6 Client Sample ID:

Date Analyzed: 01/30/13 12:34 Lab File ID: 1AA30006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	01/30/13 13:29

Lab Sample ID: IC 660-133924/7 Client Sample ID:

Date Analyzed: 01/30/13 12:49 Lab File ID: 1AA30007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:30

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Analysis Batch Number: 133924

Lab Sample ID: IC 660-133924/8 Client Sample ID:

Date Analyzed: 01/30/13 13:04 Lab File ID: 1AA30008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:30

Lab Sample ID: IC 660-133924/9 Client Sample ID:

Date Analyzed: 01/30/13 13:20 Lab File ID: 1AA30009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:32

Lab Sample ID: ICV 660-133924/10 Client Sample ID:

Date Analyzed: 01/30/13 13:35 Lab File ID: 1AA30010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.70	Baseline Event	cantins	01/30/13 13:47
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: CCVIS 660-134523/3 Client Sample ID:

Date Analyzed: 02/14/13 10:21 Lab File ID: 1AB14003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/14/13 10:34

Lab Sample ID: LCS 660-134445/2-A Client Sample ID:

Date Analyzed: 02/14/13 17:10 Lab File ID: 1AB14030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 12:41

Lab Sample ID: 680-87218-A-45-B MS Client Sample ID:

Date Analyzed: 02/14/13 18:40 Lab File ID: 1AB14036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.29	Split Peak	cantins	02/15/13 13:45

Lab Sample ID: 680-87218-A-45-C MSD Client Sample ID:

Date Analyzed: 02/14/13 18:55 Lab File ID: 1AB14037.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 13:46

Lab Sample ID: 680-87279-1 Client Sample ID: FM0018B-CS

Date Analyzed: 02/14/13 19:10 Lab File ID: 1AB14038.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 13:46

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: 680-87279-2 Client Sample ID: FM0018C-CS

Date Analyzed: 02/14/13 19:25 Lab File ID: 1AB14039.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 13:47
Benzo[k]fluoranthene	7.27	Baseline Event	cantins	02/15/13 13:47
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 13:48
Dibenz(a,h)anthracene	8.29	Baseline Event	cantins	02/15/13 13:48

Lab Sample ID: 680-87279-3 Client Sample ID: FM0034B-CS

Date Analyzed: 02/14/13 19:41 Lab File ID: 1AB14040.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 13:49
Benzo[k]fluoranthene	7.27	Baseline Event	cantins	02/15/13 13:49
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 13:50

Lab Sample ID: 680-87279-4 Client Sample ID: FM0123B-CS

Date Analyzed: 02/14/13 19:56 Lab File ID: 1AB14041.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 13:50
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 13:51
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 13:51
Dibenz(a,h)anthracene	8.29	Baseline Event	cantins	02/15/13 13:51

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: 680-87279-5 Client Sample ID: FM0138A-CS

Date Analyzed: 02/14/13 20:11 Lab File ID: 1AB14042.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.26	Split Peak	cantins	02/15/13 13:52
Benzo[k]fluoranthene	7.27	Baseline Event	cantins	02/15/13 13:52
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 13:53

Lab Sample ID: 680-87279-7 Client Sample ID: FM0139A-CS

Date Analyzed: 02/14/13 20:26 Lab File ID: 1AB14043.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.36	Baseline Event	cantins	02/15/13 13:57

Lab Sample ID: 680-87279-8 Client Sample ID: FM0139B-CS

Date Analyzed: 02/14/13 20:41 Lab File ID: 1AB14044.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Baseline Event	cantins	02/15/13 13:59
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 14:00

Lab Sample ID: 680-87279-9 Client Sample ID: FM0139C-CS

Date Analyzed: 02/14/13 20:56 Lab File ID: 1AB14045.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.26	Split Peak	cantins	02/15/13 14:00
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 14:01
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 14:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: 680-87279-10 Client Sample ID: FM0153A-CS

Date Analyzed: 02/14/13 21:11 Lab File ID: 1AB14046.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 14:02
Benzo[g,h,i]perylene	8.50	Baseline Event	cantins	02/15/13 14:02

Lab Sample ID: 680-87279-11 Client Sample ID: CV0748X-CS

Date Analyzed: 02/14/13 21:26 Lab File ID: 1AB14047.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 14:04
Dibenz(a,h)anthracene	8.29	Baseline Event	cantins	02/15/13 14:03
Benzo[g,h,i]perylene	8.50	Baseline Event	cantins	02/15/13 14:03

Lab Sample ID: 680-87279-12 Client Sample ID: CV0748Z-CS

Date Analyzed: 02/14/13 21:42 Lab File ID: 1AB14048.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 14:05
Benzo[k]fluoranthene	7.27	Baseline Event	cantins	02/15/13 14:05
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/15/13 14:05

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: 680-87279-14 Client Sample ID: CV0748FF-CS

Date Analyzed: 02/14/13 21:57 Lab File ID: 1AB14049.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	4.43	Baseline Event	cantins	02/15/13 14:06
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 14:06
Benzo[k]fluoranthene	7.27	Baseline Event	cantins	02/15/13 14:07
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 14:07
Dibenz(a,h)anthracene	8.29	Baseline Event	cantins	02/15/13 14:07

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Analysis Batch Number: 134532

Lab Sample ID: CCVIS 660-134532/8 Client Sample ID:

Date Analyzed: 02/15/13 15:21 Lab File ID: 1AB15006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.24	Split Peak	cantins	02/15/13 15:35

Lab Sample ID: LCS 660-134455/2-A Client Sample ID:

Date Analyzed: 02/15/13 16:07 Lab File ID: 1AB15009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/18/13 11:09

Lab Sample ID: 680-87279-6 Client Sample ID: FM0138B-CS

Date Analyzed: 02/15/13 16:22 Lab File ID: 1AB15010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.43	Baseline Event	cantins	02/18/13 11:10

Lab Sample ID: 680-87279-6 MS Client Sample ID: FM0138B-CS MS

Date Analyzed: 02/15/13 16:37 Lab File ID: 1AB15011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/18/13 11:12

Lab Sample ID: 680-87279-6 MSD Client Sample ID: FM0138B-CS MSD

Date Analyzed: 02/15/13 16:52 Lab File ID: 1AB15012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.24	Split Peak	cantins	02/18/13 11:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Analysis Batch Number: 134532

Lab Sample ID: 680-87279-20 Client Sample ID: CV0748PP-CS

Date Analyzed: 02/15/13 17:52 Lab File ID: 1AB15016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.23	Split Peak	cantins	02/18/13 11:18
Benzo[k]fluoranthene	7.24	Baseline Event	cantins	02/18/13 11:18
Indeno[1,2,3-cd]pyrene	8.25	Split Peak	cantins	02/18/13 11:18

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMC5973 Analysis Batch Number: 133227

Lab Sample ID: IC 660-133227/3 Client Sample ID:

Date Analyzed: 01/07/13 15:23 Lab File ID: 1CA07013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.76	Baseline Event	cantins	01/08/13 12:35
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:35
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:35
Benzo[g,h,i]perylene	10.76	Baseline Event	cantins	01/08/13 12:35

Lab Sample ID: IC 660-133227/4 Client Sample ID:

Date Analyzed: 01/07/13 15:41 Lab File ID: 1CA07014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	7.89	Baseline Event	cantins	01/08/13 12:36
Indeno[1,2,3-cd]pyrene	10.36	Split Peak	cantins	01/08/13 12:37
Dibenz(a,h)anthracene	10.38	Baseline Event	cantins	01/08/13 12:36
Benzo[g,h,i]perylene	10.75	Baseline Event	cantins	01/08/13 12:36

Lab Sample ID: IC 660-133227/5 Client Sample ID:

Date Analyzed: 01/07/13 15:59 Lab File ID: 1CA07015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:38
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:37
Benzo[g,h,i]perylene	10.75	Baseline Event	cantins	01/08/13 12:38

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMC5973 Analysis Batch Number: 133227

Lab Sample ID: IC 660-133227/6 Client Sample ID:

Date Analyzed: 01/07/13 16:18 Lab File ID: 1CA07016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:39
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:38
Benzo[g,h,i]perylene	10.74	Baseline Event	cantins	01/08/13 12:39

Lab Sample ID: ICIS 660-133227/7 Client Sample ID:

Date Analyzed: 01/07/13 16:36 Lab File ID: 1CA07017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:32
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:32
Benzo[g,h,i]perylene	10.75	Baseline Event	cantins	01/08/13 12:32

Lab Sample ID: IC 660-133227/8 Client Sample ID:

Date Analyzed: 01/07/13 16:54 Lab File ID: 1CA07018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:39

Lab Sample ID: IC 660-133227/9 Client Sample ID:

Date Analyzed: 01/07/13 17:13 Lab File ID: 1CA07019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:40

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMC5973 Analysis Batch Number: 133227

Lab Sample ID: ICV 660-133227/10 Client Sample ID:

Date Analyzed: 01/07/13 17:31 Lab File ID: 1CA07020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:44

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMC5973 Analysis Batch Number: 134493

Lab Sample ID: CCVIS 660-134493/3 Client Sample ID:

Date Analyzed: 02/14/13 14:56 Lab File ID: 1CB14003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.27	Split Peak	cantins	02/14/13 15:13

Lab Sample ID: 680-87279-15 Client Sample ID: CV0748GG-CS

Date Analyzed: 02/14/13 18:39 Lab File ID: 1CB14015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/15/13 14:46
Benzo[g,h,i]perylene	10.61	Baseline Event	cantins	02/15/13 14:46

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMC5973 Analysis Batch Number: 134530

Lab Sample ID: CCVIS 660-134530/4 Client Sample ID:

Date Analyzed: 02/15/13 11:56 Lab File ID: 1CB15004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/15/13 12:21

Lab Sample ID: 680-87279-16 Client Sample ID: CV0748HH-CS

Date Analyzed: 02/15/13 12:43 Lab File ID: 1CB15006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/15/13 14:47

Lab Sample ID: 680-87279-7 DL Client Sample ID: FM0139A-CS DL

Date Analyzed: 02/15/13 15:09 Lab File ID: 1CB15014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/15/13 16:52
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/15/13 16:52
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/15/13 16:52

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMC5973 Analysis Batch Number: 134598

Lab Sample ID: CCVIS 660-134598/3 Client Sample ID:

Date Analyzed: 02/18/13 14:07 Lab File ID: 1CB18003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/18/13 14:26

Lab Sample ID: 680-87279-17 Client Sample ID: CV0748KK-CS

Date Analyzed: 02/18/13 15:41 Lab File ID: 1CB18008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/18/13 16:43
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/18/13 16:43
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/18/13 16:43

Lab Sample ID: 680-87279-18 Client Sample ID: CV0748LL-CS

Date Analyzed: 02/18/13 16:00 Lab File ID: 1CB18009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/18/13 16:44
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/18/13 16:44
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/18/13 16:44

Lab Sample ID: 680-87279-19 Client Sample ID: CV0748MM-CS

Date Analyzed: 02/18/13 16:18 Lab File ID: 1CB18010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	10.26	Baseline Event	cantins	02/18/13 16:45

Method 8270C Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Matrix: Solid Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
FM0018B-CS	680-87279-1	67
FM0018C-CS	680-87279-2	105
FM0034B-CS	680-87279-3	85
FM0123B-CS	680-87279-4	69
FM0138A-CS	680-87279-5	81
FM0138B-CS	680-87279-6	68
FM0139A-CS	680-87279-7	84
FM0139B-CS	680-87279-8	75
FM0139C-CS	680-87279-9	69
FM0153A-CS	680-87279-10	73
CV0748X-CS	680-87279-11	78
CV0748Z-CS	680-87279-12	100
CV0748FF-CS	680-87279-14	64
CV0748GG-CS	680-87279-15	87
CV0748HH-CS	680-87279-16	99
CV0748KK-CS	680-87279-17	61
CV0748LL-CS	680-87279-18	79
CV0748MM-CS	680-87279-19	80
CV0748PP-CS	680-87279-20	66
	MB 660-134445/1-A	96
	MB 660-134455/1-A	89
	LCS 660-134445/2-A	76
	LCS 660-134455/2-A	75
	680-87218-A-45-B MS	71
FM0138B-CS MS	680-87279-6 MS	91
	680-87218-A-45-C MSD	69
FM0138B-CS MSD	680-87279-6 MSD	84

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Matrix: Solid Level: Low Lab File ID: 1AB14030.D

Lab ID: LCS 660-134445/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	654	414	63	39-130	
Acenaphthylene	654	401	61	38-130	
Anthracene	654	435	67	37-130	
Benzo[a]anthracene	654	488	75	40-130	
Benzo[a]pyrene	654	351	54	49-130	
Benzo[b]fluoranthene	654	337	51	37-130	
Benzo[g,h,i]perylene	654	417	64	32-130	
Benzo[k]fluoranthene	654	413	63	32-130	
Chrysene	654	419	64	41-130	
Dibenz(a,h)anthracene	654	419	64	27-130	
Fluoranthene	654	494	76	40-130	
Fluorene	654	429	66	40-130	
Indeno[1,2,3-cd]pyrene	654	405	62	30-130	
1-Methylnaphthalene	654	451	69	31-130	
2-Methylnaphthalene	654	482	74	33-130	
Naphthalene	654	413	63	36-130	
Phenanthrene	654	437	67	42-130	
Pyrene	654	439	67	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Matrix: Solid Level: Low Lab File ID: 1AB15009.D

Lab ID: LCS 660-134455/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	661	415	63	39-130	
Acenaphthylene	661	416	63	38-130	
Anthracene	661	452	68	37-130	
Benzo[a]anthracene	661	532	80	40-130	
Benzo[a]pyrene	661	467	71	49-130	
Benzo[b]fluoranthene	661	483	73	37-130	
Benzo[g,h,i]perylene	661	507	77	32-130	
Benzo[k]fluoranthene	661	502	76	32-130	
Chrysene	661	487	74	41-130	
Dibenz(a,h)anthracene	661	491	74	27-130	
Fluoranthene	661	485	73	40-130	
Fluorene	661	426	64	40-130	
Indeno[1,2,3-cd]pyrene	661	552	84	30-130	
1-Methylnaphthalene	661	458	69	31-130	
2-Methylnaphthalene	661	492	75	33-130	
Naphthalene	661	446	68	36-130	
Phenanthrene	661	452	68	42-130	
Pyrene	661	440	67	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Matrix: Solid Level: Low Lab File ID: 1AB14036.D

Lab ID: 680-87218-A-45-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	790	120 U	394	50	39-130	
Acenaphthylene	790	47 U	417	53	38-130	
Anthracene	790	7.6 J	487	61	37-130	
Benzo[a]anthracene	790	32	590	71	40-130	
Benzo[a]pyrene	790	14	390	48	49-130	F
Benzo[b]fluoranthene	790	23	449	54	37-130	
Benzo[g,h,i]perylene	790	13 J	452	56	32-130	
Benzo[k]fluoranthene	790	4.9 J	418	52	32-130	
Chrysene	790	18	458	56	41-130	
Dibenz(a,h)anthracene	790	6.5 J	391	49	27-130	
Fluoranthene	790	28	551	66	40-130	
Fluorene	790	24 U	451	57	40-130	
Indeno[1,2,3-cd]pyrene	790	11 J	578	72	30-130	
1-Methylnaphthalene	790	11 J	425	52	31-130	
2-Methylnaphthalene	790	18 J	425	51	33-130	
Naphthalene	790	18 J	393	47	36-130	
Phenanthrene	790	30	517	62	42-130	
Pyrene	790	26	520	63	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Matrix: Solid Level: Low Lab File ID: 1AB15011.D

Lab ID: 680-87279-6 MS Client ID: FM0138B-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	677	100 U	550	81	39-130	
Acenaphthylene	677	41 U	549	81	38-130	
Anthracene	677	8.5 U	572	85	37-130	
Benzo[a]anthracene	677	12	692	100	40-130	
Benzo[a]pyrene	677	6.2 J	522	76	49-130	
Benzo[b]fluoranthene	677	8.0 J	572	83	37-130	
Benzo[g,h,i]perylene	677	4.5 J	554	81	32-130	
Benzo[k]fluoranthene	677	8.1 U	618	91	32-130	
Chrysene	677	9.0 J	619	90	41-130	
Dibenz(a,h)anthracene	677	20 U	517	76	27-130	
Fluoranthene	677	12 J	680	99	40-130	
Fluorene	677	20 U	573	85	40-130	
Indeno[1,2,3-cd]pyrene	677	20 U	540	80	30-130	
1-Methylnaphthalene	677	41 U	613	91	31-130	
2-Methylnaphthalene	677	41 U	650	96	33-130	
Naphthalene	677	5.7 J	590	86	36-130	
Phenanthrene	677	16	589	85	42-130	
Pyrene	677	10 J	679	99	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Matrix: Solid Level: Low Lab File ID: 1AB14037.D

Lab ID: 680-87218-A-45-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	790	437	55	10	40	39-130	
Acenaphthylene	790	437	55	5	40	38-130	
Anthracene	790	480	60	1	40	37-130	
Benzo[a]anthracene	790	567	68	4	40	40-130	
Benzo[a]pyrene	790	388	47	0	40	49-130	F
Benzo[b]fluoranthene	790	405	48	10	40	37-130	
Benzo[g,h,i]perylene	790	456	56	1	40	32-130	
Benzo[k]fluoranthene	790	432	54	3	40	32-130	
Chrysene	790	438	53	5	40	41-130	
Dibenz(a,h)anthracene	790	463	58	17	40	27-130	
Fluoranthene	790	546	66	1	40	40-130	
Fluorene	790	457	58	1	40	40-130	
Indeno[1,2,3-cd]pyrene	790	436	54	28	40	30-130	
1-Methylnaphthalene	790	490	61	14	40	31-130	
2-Methylnaphthalene	790	498	61	16	40	33-130	
Naphthalene	790	433	53	10	40	36-130	
Phenanthrene	790	512	61	1	40	42-130	
Pyrene	790	502	60	4	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Matrix: Solid Level: Low Lab File ID: 1AB15012.D

Lab ID: 680-87279-6 MSD Client ID: FM0138B-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	677	486	72	12	40	39-130	
Acenaphthylene	677	491	73	11	40	38-130	
Anthracene	677	519	77	10	40	37-130	
Benzo[a]anthracene	677	590	85	16	40	40-130	
Benzo[a]pyrene	677	403	59	26	40	49-130	
Benzo[b]fluoranthene	677	466	68	20	40	37-130	
Benzo[g,h,i]perylene	677	609	89	9	40	32-130	
Benzo[k]fluoranthene	677	408	60	41	40	32-130	F
Chrysene	677	505	73	20	40	41-130	
Dibenz(a,h)anthracene	677	556	82	7	40	27-130	
Fluoranthene	677	544	79	22	40	40-130	
Fluorene	677	515	76	11	40	40-130	
Indeno[1,2,3-cd]pyrene	677	585	86	8	40	30-130	
1-Methylnaphthalene	677	545	80	12	40	31-130	
2-Methylnaphthalene	677	577	85	12	40	33-130	
Naphthalene	677	514	75	14	40	36-130	
Phenanthrene	677	527	76	11	40	42-130	
Pyrene	677	548	80	21	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab File ID: 1AB14029.D Lab Sample ID: MB 660-134445/1-A

Matrix: Solid Date Extracted: 02/13/2013 15:28

Instrument ID: BSMA5973 Date Analyzed: 02/14/2013 16:54

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134445/2-A	1AB14030.D	02/14/2013 17:10
CV0748GG-CS	680-87279-15	1CB14015.D	02/14/2013 18:39
	680-87218-A-45-B MS	1AB14036.D	02/14/2013 18:40
	680-87218-A-45-C MSD	1AB14037.D	02/14/2013 18:55
FM0018B-CS	680-87279-1	1AB14038.D	02/14/2013 19:10
FM0018C-CS	680-87279-2	1AB14039.D	02/14/2013 19:25
FM0034B-CS	680-87279-3	1AB14040.D	02/14/2013 19:41
FM0123B-CS	680-87279-4	1AB14041.D	02/14/2013 19:56
FM0138A-CS	680-87279-5	1AB14042.D	02/14/2013 20:11
FM0139A-CS	680-87279-7	1AB14043.D	02/14/2013 20:26
FM0139B-CS	680-87279-8	1AB14044.D	02/14/2013 20:41
FM0139C-CS	680-87279-9	1AB14045.D	02/14/2013 20:56
FM0153A-CS	680-87279-10	1AB14046.D	02/14/2013 21:11
CV0748X-CS	680-87279-11	1AB14047.D	02/14/2013 21:26
CV0748Z-CS	680-87279-12	1AB14048.D	02/14/2013 21:42
CV0748FF-CS	680-87279-14	1AB14049.D	02/14/2013 21:57
CV0748HH-CS	680-87279-16	1CB15006.D	02/15/2013 12:43
FM0139A-CS DL	680-87279-7 DL	1CB15014.D	02/15/2013 15:09

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab File ID: 1AB15008.D Lab Sample ID: MB 660-134455/1-A

Matrix: Solid Date Extracted: 02/14/2013 08:35

Instrument ID: BSMA5973 Date Analyzed: 02/15/2013 15:52

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134455/2-A	1AB15009.D	02/15/2013 16:07
FM0138B-CS	680-87279-6	1AB15010.D	02/15/2013 16:22
FM0138B-CS MS	680-87279-6 MS	1AB15011.D	02/15/2013 16:37
FM0138B-CS MSD	680-87279-6 MSD	1AB15012.D	02/15/2013 16:52
CV0748PP-CS	680-87279-20	1AB15016.D	02/15/2013 17:52
CV0748KK-CS	680-87279-17	1CB18008.D	02/18/2013 15:41
CV0748LL-CS	680-87279-18	1CB18009.D	02/18/2013 16:00
CV0748MM-CS	680-87279-19	1CB18010.D	02/18/2013 16:18

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab File ID: 1AA30002.D DFTPP Injection Date: 01/30/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:20

Analysis Batch No.: 133924

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	40.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	43.7	
70	Less than 2.0 % of mass 69	0.7	(1.7)1
127	10.0 - 80.0 % of mass 198	44.2	
197	Less than 2.0 % of mass 198	1.7	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.9	
275	10.0 - 60.0 % of mass 198	23.5	
365	Greater than 1.0 % of mass 198	1.9	
441	Present but less than mass 443	8.6	
442	Greater than 50.0 % of mass 198	63.7	
443	15.0 - 24.0 % of mass 442	13.6	(21.3)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-133924/3	1AA30003.D	01/30/2013	11:38
	IC 660-133924/4	1AA30004.D	01/30/2013	12:04
	IC 660-133924/5	1AA30005.D	01/30/2013	12:19
	IC 660-133924/6	1AA30006.D	01/30/2013	12:34
	IC 660-133924/7	1AA30007.D	01/30/2013	12:49
	IC 660-133924/8	1AA30008.D	01/30/2013	13:04
	IC 660-133924/9	1AA30009.D	01/30/2013	13:20
	ICV 660-133924/10	1AA30010.D	01/30/2013	13:35

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab File ID: 1AB14002.D DFTPP Injection Date: 02/14/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 09:58

Analysis Batch No.: 134523

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	43.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.3	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	43.0	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.6	
275	10.0 - 60.0 % of mass 198	26.7	
365	Greater than 1.0 % of mass 198	3.5	
441	Present but less than mass 443	11.4	
442	Greater than 50.0 % of mass 198	77.3	
443	15.0 - 24.0 % of mass 442	14.5	(18.8)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134523/3	1AB14003.D	02/14/2013	10:21
	MB 660-134445/1-A	1AB14029.D	02/14/2013	16:54
	LCS 660-134445/2-A	1AB14030.D	02/14/2013	17:10
	680-87218-A-45-B MS	1AB14036.D	02/14/2013	18:40
	680-87218-A-45-C MSD	1AB14037.D	02/14/2013	18:55
FM0018B-CS	680-87279-1	1AB14038.D	02/14/2013	19:10
FM0018C-CS	680-87279-2	1AB14039.D	02/14/2013	19:25
FM0034B-CS	680-87279-3	1AB14040.D	02/14/2013	19:41
FM0123B-CS	680-87279-4	1AB14041.D	02/14/2013	19:56
FM0138A-CS	680-87279-5	1AB14042.D	02/14/2013	20:11
FM0139A-CS	680-87279-7	1AB14043.D	02/14/2013	20:26
FM0139B-CS	680-87279-8	1AB14044.D	02/14/2013	20:41
FM0139C-CS	680-87279-9	1AB14045.D	02/14/2013	20:56
FM0153A-CS	680-87279-10	1AB14046.D	02/14/2013	21:11
CV0748X-CS	680-87279-11	1AB14047.D	02/14/2013	21:26
CV0748Z-CS	680-87279-12	1AB14048.D	02/14/2013	21:42
CV0748FF-CS	680-87279-14	1AB14049.D	02/14/2013	21:57

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab File ID: 1AB15005.D DFTPP Injection Date: 02/15/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 15:08

Analysis Batch No.: 134532

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	34.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	40.4	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	38.8	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.7	
275	10.0 - 60.0 % of mass 198	27.6	
365	Greater than 1.0 % of mass 198	6.0	
441	Present but less than mass 443	13.2	
442	Greater than 50.0 % of mass 198	84.0	
443	15.0 - 24.0 % of mass 442	13.3	(15.8)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134532/8	1AB15006.D	02/15/2013	15:21
	MB 660-134455/1-A	1AB15008.D	02/15/2013	15:52
	LCS 660-134455/2-A	1AB15009.D	02/15/2013	16:07
FM0138B-CS	680-87279-6	1AB15010.D	02/15/2013	16:22
FM0138B-CS MS	680-87279-6 MS	1AB15011.D	02/15/2013	16:37
FM0138B-CS MSD	680-87279-6 MSD	1AB15012.D	02/15/2013	16:52
CV0748PP-CS	680-87279-20	1AB15016.D	02/15/2013	17:52

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab File ID: 1CA07002.D DFTPP Injection Date: 01/07/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:23

Analysis Batch No.: 133227

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	32.5	
68	Less than 2.0 % of mass 69	0.4	(1.1)1
69	Mass 69 relative abundance	39.9	
70	Less than 2.0 % of mass 69	0.4	(1.0)1
127	10.0 - 80.0 % of mass 198	46.8	
197	Less than 2.0 % of mass 198	1.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.2	
275	10.0 - 60.0 % of mass 198	23.0	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	13.3	
442	Greater than 50.0 % of mass 198	90.1	
443	15.0 - 24.0 % of mass 442	17.2	(19.1)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-133227/3	1CA07013.D	01/07/2013	15:23
	IC 660-133227/4	1CA07014.D	01/07/2013	15:41
	IC 660-133227/5	1CA07015.D	01/07/2013	15:59
	IC 660-133227/6	1CA07016.D	01/07/2013	16:18
	ICIS 660-133227/7	1CA07017.D	01/07/2013	16:36
	IC 660-133227/8	1CA07018.D	01/07/2013	16:54
	IC 660-133227/9	1CA07019.D	01/07/2013	17:13
	ICV 660-133227/10	1CA07020.D	01/07/2013	17:31

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab File ID: 1CB14002.D DFTPP Injection Date: 02/14/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 14:34

Analysis Batch No.: 134493

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	29.6	
68	Less than 2.0 % of mass 69	0.8	(1.8)1
69	Mass 69 relative abundance	47.2	
70	Less than 2.0 % of mass 69	0.4	(0.9)1
127	10.0 - 80.0 % of mass 198	44.4	
197	Less than 2.0 % of mass 198	0.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.8	
275	10.0 - 60.0 % of mass 198	24.7	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	13.2	
442	Greater than 50.0 % of mass 198	91.5	
443	15.0 - 24.0 % of mass 442	18.6	(20.3)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134493/3	1CB14003.D	02/14/2013	14:56
CV0748GG-CS	680-87279-15	1CB14015.D	02/14/2013	18:39

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab File ID: 1CB15003.D DFTPP Injection Date: 02/15/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:40

Analysis Batch No.: 134530

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	32.9	
68	Less than 2.0 % of mass 69	0.5	(1.1)1
69	Mass 69 relative abundance	43.5	
70	Less than 2.0 % of mass 69	0.4	(0.8)1
127	10.0 - 80.0 % of mass 198	46.7	
197	Less than 2.0 % of mass 198	0.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.4	
275	10.0 - 60.0 % of mass 198	22.9	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	10.9	
442	Greater than 50.0 % of mass 198	71.8	
443	15.0 - 24.0 % of mass 442	16.0	(22.2)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134530/4	1CB15004.D	02/15/2013	11:56
CV0748HH-CS	680-87279-16	1CB15006.D	02/15/2013	12:43
FM0139A-CS DL	680-87279-7 DL	1CB15014.D	02/15/2013	15:09

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab File ID: 1CB18002.D DFTPP Injection Date: 02/18/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 13:50

Analysis Batch No.: 134598

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	35.2	
68	Less than 2.0 % of mass 69	0.7	(1.6)1
69	Mass 69 relative abundance	45.8	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	46.1	
197	Less than 2.0 % of mass 198	1.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	22.1	
365	Greater than 1.0 % of mass 198	3.3	
441	Present but less than mass 443	10.8	
442	Greater than 50.0 % of mass 198	73.1	
443	15.0 - 24.0 % of mass 442	13.6	(18.5)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134598/3	1CB18003.D	02/18/2013	14:07
CV0748KK-CS	680-87279-17	1CB18008.D	02/18/2013	15:41
CV0748LL-CS	680-87279-18	1CB18009.D	02/18/2013	16:00
CV0748MM-CS	680-87279-19	1CB18010.D	02/18/2013	16:18

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: ICIS 660-133924/3 Date Analyzed: 01/30/2013 11:38

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AA30003.D Heated Purge: (Y/N) N

Calibration ID: 2712

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1356829	2.51	769245	3.54	1169097	4.50
UPPER LIMIT		2713658	3.01	1538490	4.04	2338194	5.00
LOWER LIMIT		678415	2.01	384623	3.04	584549	4.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133924/10		1317903	2.51	820848	3.54	1272419	4.50

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: ICIS 660-133924/3 Date Analyzed: 01/30/2013 11:38

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AA30003.D Heated Purge: (Y/N) N

Calibration ID: 2712

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		942927	6.54	892108	7.64		
UPPER LIMIT		1885854	7.04	1784216	8.14		
LOWER LIMIT		471464	6.04	446054	7.14		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133924/10		1032149	6.54	982321	7.64		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: CCVIS 660-134523/3 Date Analyzed: 02/14/2013 10:21

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AB14003.D Heated Purge: (Y/N) N

Calibration ID: 2712

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		982183	2.43	604288	3.46	878194	4.40
UPPER LIMIT		1964366	2.93	1208576	3.96	1756388	4.90
LOWER LIMIT		491092	1.93	302144	2.96	439097	3.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134445/1-A		814176	2.43	552151	3.47	751940	4.41
LCS 660-134445/2-A		895638	2.44	574202	3.47	797237	4.41
680-87218-A-45-B MS		853961	2.43	535075	3.46	744930	4.41
680-87218-A-45-C MSD		832763	2.43	508146	3.46	705369	4.41
680-87279-1	FM0018B-CS	886194	2.43	540877	3.46	766622	4.41
680-87279-2	FM0018C-CS	750106	2.44	459138	3.46	631377	4.41
680-87279-3	FM0034B-CS	865462	2.43	532380	3.46	734387	4.41
680-87279-4	FM0123B-CS	905096	2.43	544225	3.46	780846	4.41
680-87279-5	FM0138A-CS	892018	2.43	523123	3.46	709921	4.41
680-87279-7	FM0139A-CS	786437	2.44	468921	3.46	628537	4.41
680-87279-8	FM0139B-CS	872683	2.44	540681	3.47	725187	4.41
680-87279-9	FM0139C-CS	848706	2.44	521969	3.46	737519	4.41
680-87279-10	FM0153A-CS	878038	2.43	528480	3.46	752323	4.41
680-87279-11	CV0748X-CS	754591	2.43	467443	3.46	645887	4.41
680-87279-12	CV0748Z-CS	779489	2.43	482464	3.46	688134	4.41
680-87279-14	CV0748FF-CS	772884	2.43	495498	3.47	692045	4.41

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: CCVIS 660-134523/3 Date Analyzed: 02/14/2013 10:21

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AB14003.D Heated Purge: (Y/N) N

Calibration ID: 2712

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		720127	6.43	750593	7.53		
UPPER LIMIT		1440254	6.93	1501186	8.03		
LOWER LIMIT		360064	5.93	375297	7.03		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134445/1-A		532630	6.44	580910	7.54		
LCS 660-134445/2-A		658548	6.44	622309	7.54		
680-87218-A-45-B MS		592472	6.44	639506	7.54		
680-87218-A-45-C MSD		576697	6.44	607239	7.54		
680-87279-1	FM0018B-CS	548296	6.44	626180	7.54		
680-87279-2	FM0018C-CS	556197	6.44	520059	7.54		
680-87279-3	FM0034B-CS	574646	6.44	628827	7.54		
680-87279-4	FM0123B-CS	677799	6.44	647536	7.54		
680-87279-5	FM0138A-CS	560328	6.44	633434	7.54		
680-87279-7	FM0139A-CS	872180	6.48	809697	7.58		
680-87279-8	FM0139B-CS	573959	6.44	655193	7.54		
680-87279-9	FM0139C-CS	574908	6.44	632134	7.54		
680-87279-10	FM0153A-CS	600590	6.44	652227	7.54		
680-87279-11	CV0748X-CS	571270	6.44	595957	7.54		
680-87279-12	CV0748Z-CS	614993	6.44	584459	7.54		
680-87279-14	CV0748FF-CS	588044	6.44	599600	7.54		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: CCVIS 660-134532/8 Date Analyzed: 02/15/2013 15:21

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AB15006.D Heated Purge: (Y/N) N

Calibration ID: 2712

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1368017	2.42	840321	3.44	1266854	4.39
UPPER LIMIT		2736034	2.92	1680642	3.94	2533708	4.89
LOWER LIMIT		684009	1.92	420161	2.94	633427	3.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134455/1-A		1027824	2.41	716597	3.44	1014397	4.38
LCS 660-134455/2-A		987109	2.42	666683	3.44	1000324	4.38
680-87279-6	FM0138B-CS	1001883	2.42	656819	3.44	960764	4.38
680-87279-6 MS	FM0138B-CS MS	961578	2.42	617160	3.44	924347	4.38
680-87279-6 MSD	FM0138B-CS MSD	869735	2.42	542996	3.44	829645	4.38
680-87279-20	CV0748PP-CS	885617	2.42	577751	3.45	833952	4.39

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: CCVIS 660-134532/8 Date Analyzed: 02/15/2013 15:21

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AB15006.D Heated Purge: (Y/N) N

Calibration ID: 2712

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1066498	6.41	1048533	7.50		
UPPER LIMIT		2132996	6.91	2097066	8.00		
LOWER LIMIT		533249	5.91	524267	7.00		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134455/1-A		843677	6.40	853259	7.50		
LCS 660-134455/2-A		831616	6.40	824033	7.50		
680-87279-6	FM0138B-CS	664318	6.40	548459	7.50		
680-87279-6 MS	FM0138B-CS MS	676033	6.40	538897	7.50		
680-87279-6 MSD	FM0138B-CS MSD	581691	6.40	708330	7.50		
680-87279-20	CV0748PP-CS	548112	6.41	717356	7.51		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: ICIS 660-133227/7 Date Analyzed: 01/07/2013 16:36

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CA07017.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2194838	3.87	1653478	4.96	3141284	5.92
UPPER LIMIT		4389676	4.37	3306956	5.46	6282568	6.42
LOWER LIMIT		1097419	3.37	826739	4.46	1570642	5.42
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133227/10		2417094	3.87	1838803	4.96	3573060	5.92

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: ICIS 660-133227/7 Date Analyzed: 01/07/2013 16:36

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CA07017.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3787207	7.87	3790527	9.11		
UPPER LIMIT		7574414	8.37	7581054	9.61		
LOWER LIMIT		1893604	7.37	1895264	8.61		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133227/10		4267463	7.87	4342564	9.12		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: CCVIS 660-134493/3 Date Analyzed: 02/14/2013 14:56

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB14003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2053022	3.82	1531446	4.91	2933515	5.86
UPPER LIMIT		4106044	4.32	3062892	5.41	5867030	6.36
LOWER LIMIT		1026511	3.32	765723	4.41	1466758	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87279-15	CV0748GG-CS	2185282	3.82	1723970	4.90	3312932	5.86

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: CCVIS 660-134493/3 Date Analyzed: 02/14/2013 14:56

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB14003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3745630	7.82	4029021	9.04		
UPPER LIMIT		7491260	8.32	8058042	9.54		
LOWER LIMIT		1872815	7.32	2014511	8.54		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87279-15	CV0748GG-CS	3678698	7.81	3320800	9.03		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: CCVIS 660-134530/4 Date Analyzed: 02/15/2013 11:56

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB15004.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2569302	3.82	1996632	4.91	3819499	5.86
UPPER LIMIT		5138604	4.32	3993264	5.41	7638998	6.36
LOWER LIMIT		1284651	3.32	998316	4.41	1909750	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87279-16	CV0748HH-CS	1922249	3.82	1431014	4.91	2774175	5.86
680-87279-7 DL	FM0139A-CS DL	1862368	3.82	1440290	4.90	2715525	5.86

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: CCVIS 660-134530/4 Date Analyzed: 02/15/2013 11:56

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB15004.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4339487	7.82	4016358	9.04		
UPPER LIMIT		8678974	8.32	8032716	9.54		
LOWER LIMIT		2169744	7.32	2008179	8.54		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87279-16	CV0748HH-CS	3083234	7.81	2889990	9.03		
680-87279-7 DL	FM0139A-CS DL	2864538	7.81	2749680	9.03		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: CCVIS 660-134598/3 Date Analyzed: 02/18/2013 14:07

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB18003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2084677	3.82	1616631	4.90	3184282	5.86
UPPER LIMIT		4169354	4.32	3233262	5.40	6368564	6.36
LOWER LIMIT		1042339	3.32	808316	4.40	1592141	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87279-17	CV0748KK-CS	1898345	3.82	1471084	4.90	2693079	5.86
680-87279-18	CV0748LL-CS	1855812	3.82	1432433	4.90	2636128	5.86
680-87279-19	CV0748MM-CS	1965807	3.82	1550958	4.90	2879106	5.86

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Sample No.: CCVIS 660-134598/3 Date Analyzed: 02/18/2013 14:07

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB18003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3977138	7.81	3965161	9.03		
UPPER LIMIT		7954276	8.31	7930322	9.53		
LOWER LIMIT		1988569	7.31	1982581	8.53		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87279-17	CV0748KK-CS	2931982	7.80	2863209	9.02		
680-87279-18	CV0748LL-CS	2786555	7.80	2647667	9.03		
680-87279-19	CV0748MM-CS	3018479	7.80	2957547	9.02		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0018B-CS | Lab Sample ID: 680-87279-1

Matrix: Solid | Lab File ID: 1AB14038.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 08:55

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.29(g) | Date Analyzed: 02/14/2013 19:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	50	U	50	6.2
120-12-7	Anthracene	10	U	10	5.2
56-55-3	Benzo[a]anthracene	19		10	4.9
50-32-8	Benzo[a]pyrene	10	J	13	6.5
205-99-2	Benzo[b]fluoranthene	14	J	15	7.6
191-24-2	Benzo[g,h,i]perylene	7.8	J	25	5.5
207-08-9	Benzo[k]fluoranthene	10	U	10	4.5
218-01-9	Chrysene	13		11	5.6
53-70-3	Dibenz(a,h)anthracene	25	U	25	5.1
206-44-0	Fluoranthene	14	J	25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	25	U	25	8.9
90-12-0	1-Methylnaphthalene	50	U	50	5.5
91-57-6	2-Methylnaphthalene	50	U	50	8.9
91-20-3	Naphthalene	12	J	50	5.5
85-01-8	Phenanthrene	14		10	4.9
129-00-0	Pyrene	12	J	25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14038.D
Lab Smp Id: 680-87279-A-1-A Client Smp ID: FM0018B-CS
Inj Date : 14-FEB-2013 19:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-1-a
Misc Info : 680-87279-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.290	Weight Extracted
M	21.398	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.432	2.430	(1.000)	886194	40.0000	
* 6 Acenaphthene-d10	164	3.463	3.461	(1.000)	540877	40.0000	
* 10 Phenanthrene-d10	188	4.408	4.402	(1.000)	766622	40.0000	
$ 14 o-Terphenyl	230	4.686	4.685	(1.063)	75140	6.74541	561.2663
* 18 Chrysene-d12	240	6.438	6.426	(1.000)	548296	40.0000	
* 23 Perylene-d12	264	7.539	7.527	(1.000)	626180	40.0000	
2 Naphthalene	128	2.442	2.441	(1.004)	2976	0.13835	11.5120(Q)
11 Phenanthrene	178	4.424	4.418	(1.004)	3482	0.16635	13.8413
15 Fluoranthene	202	5.290	5.283	(1.200)	3505	0.16889	14.0530
16 Pyrene	202	5.461	5.454	(0.848)	2823	0.14256	11.8623
17 Benzo(a)anthracene	228	6.433	6.416	(0.999)	3780	0.23089	19.2117
19 Chrysene	228	6.454	6.448	(1.002)	2561	0.16049	13.3537
20 Benzo(b)fluoranthene	252	7.250	7.244	(0.962)	3003	0.17183	14.2972(M)
22 Benzo(a)pyrene	252	7.485	7.479	(0.993)	2003	0.12069	10.0422

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
26 Benzo(g,h,i)perylene	276	8.490	8.494	(1.126)	1276	0.09399	7.8202

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14038.D

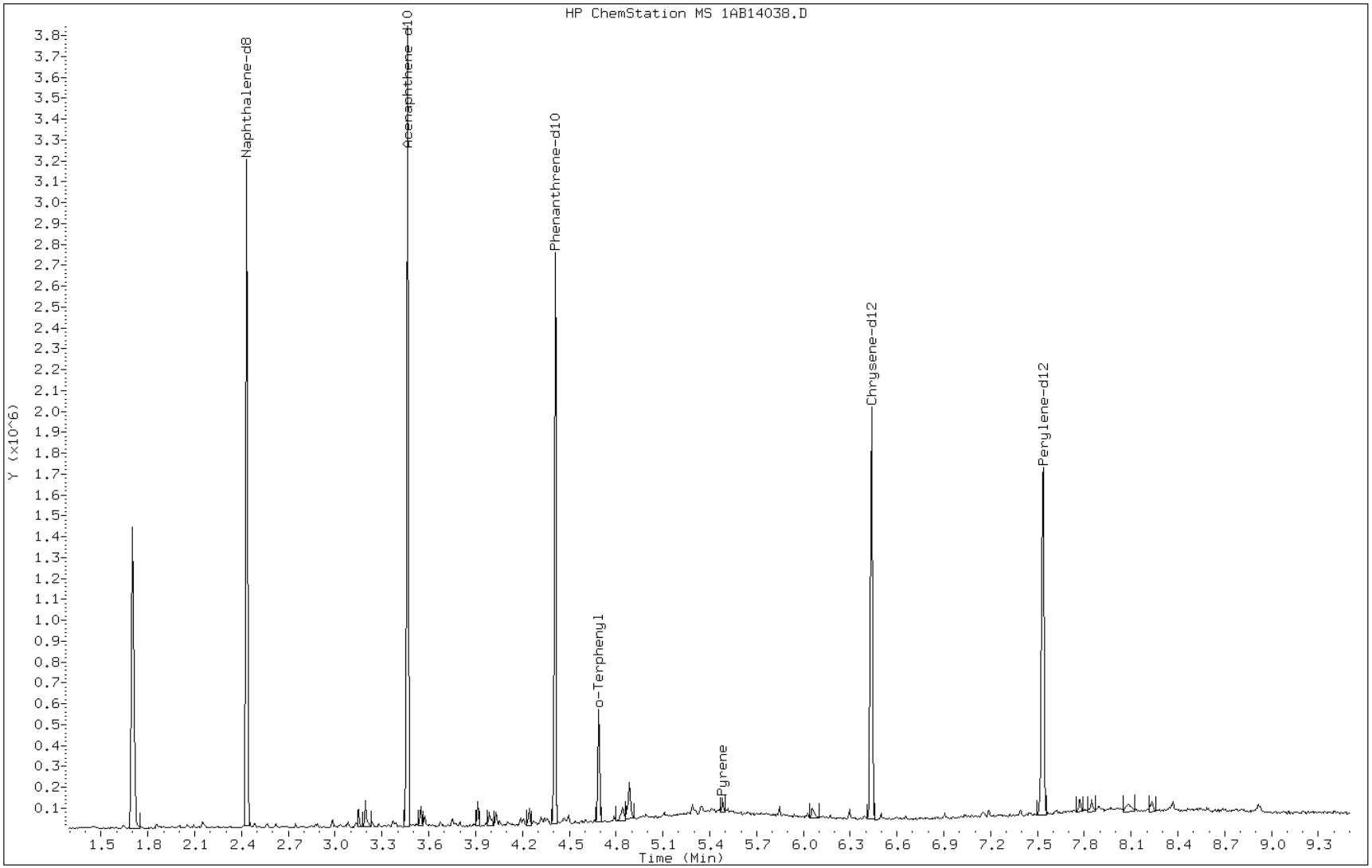
Date: 14-FEB-2013 19:10

Client ID: FM0018B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-1-a

Operator: SCC



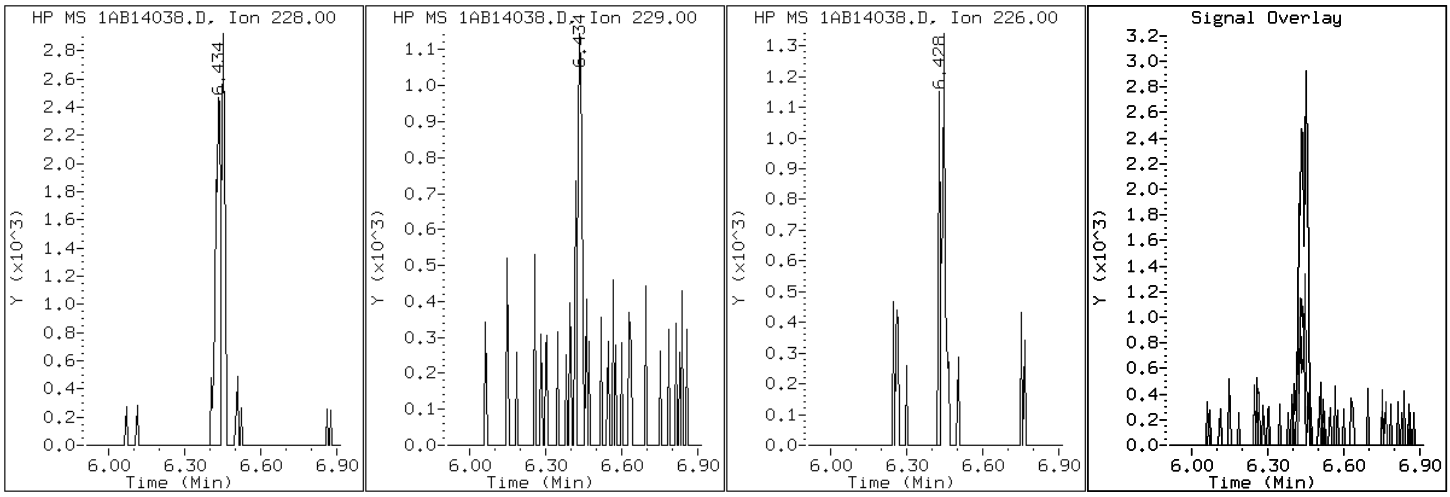
Data File: 1AB14038.D

Date: 14-FEB-2013 19:10

Client ID: FM0018B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-1-a Operator: SCC

17 Benzo(a)anthracene



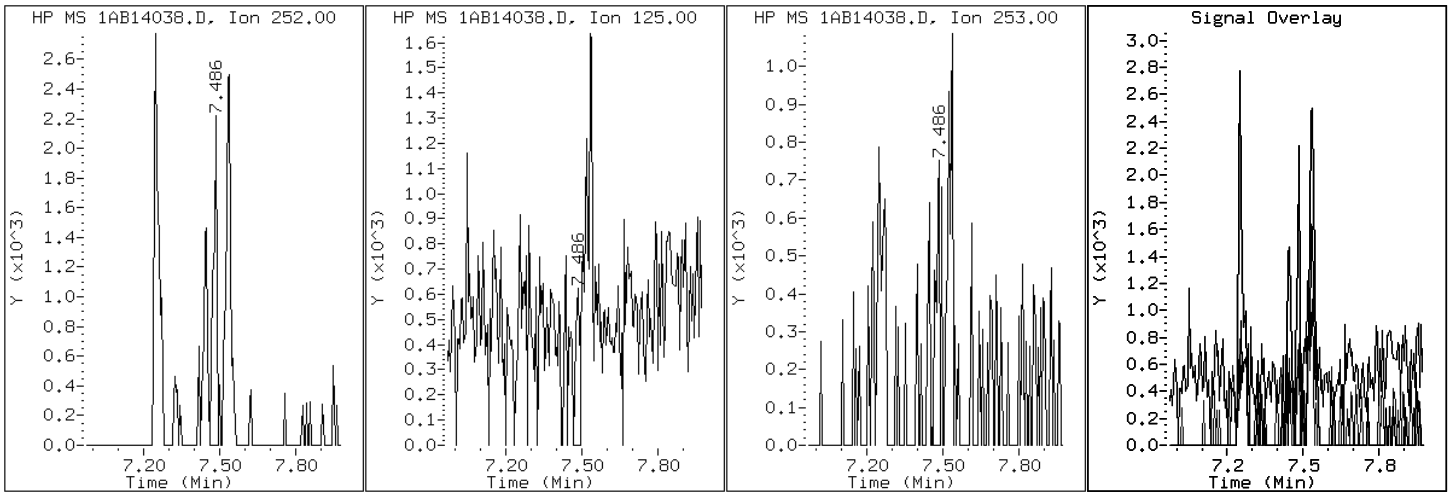
Data File: 1AB14038.D

Date: 14-FEB-2013 19:10

Client ID: FM0018B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-1-a Operator: SCC

22 Benzo(a)pyrene



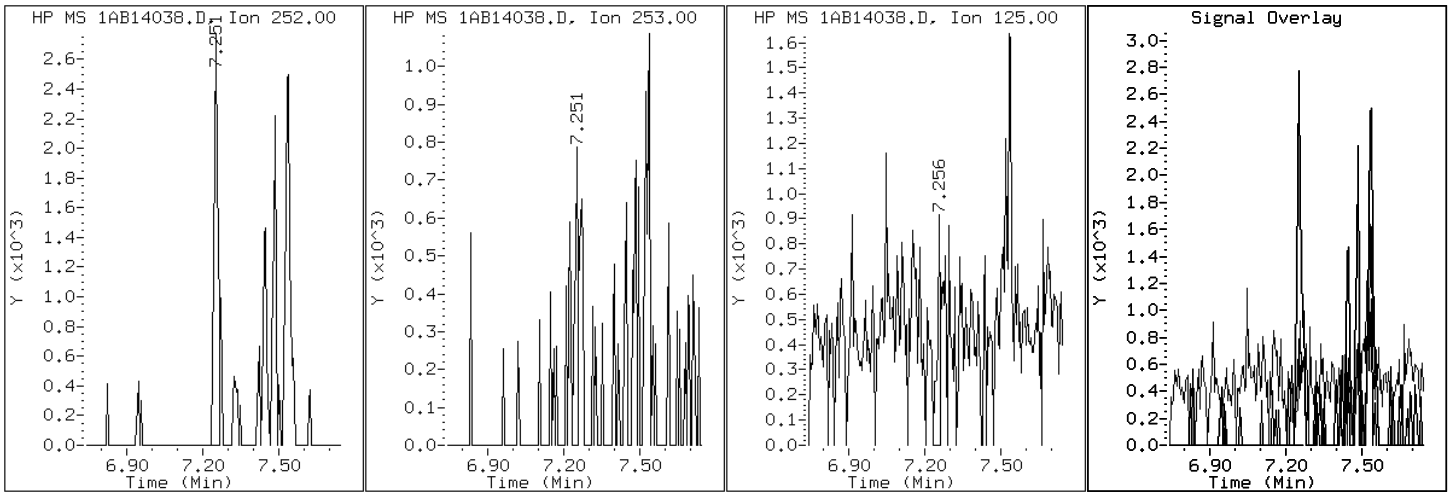
Data File: 1AB14038.D

Date: 14-FEB-2013 19:10

Client ID: FM0018B-CS | Instrument: BSMA5973.i

Sample Info: 680-87279-a-1-a | Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14038.D

Date: 14-FEB-2013 19:10

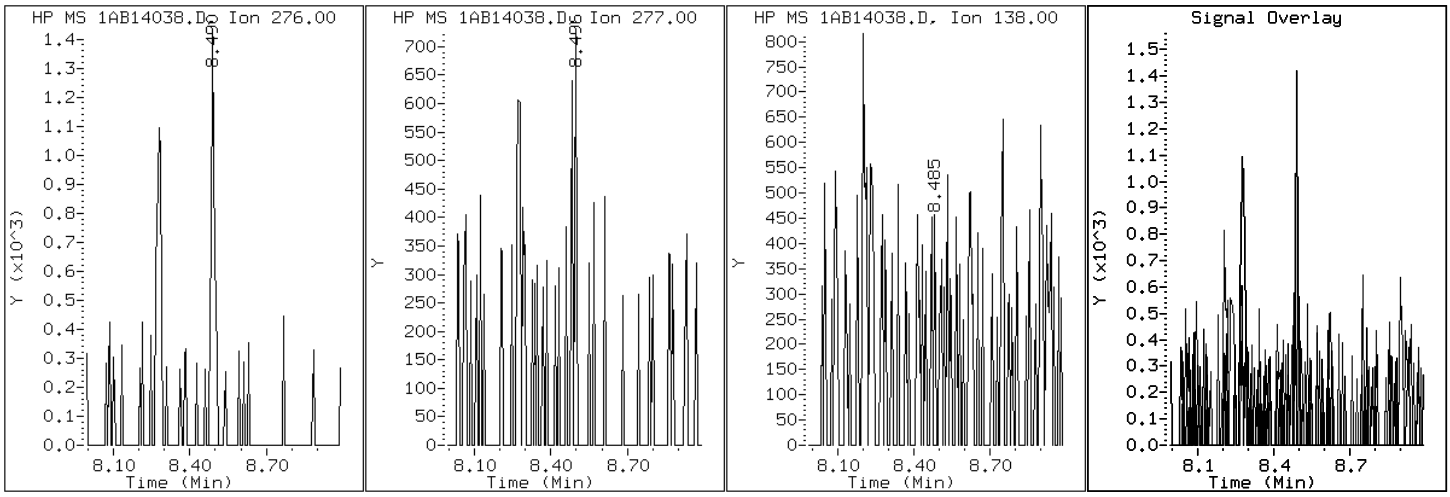
Client ID: FM0018B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB14038.D

Date: 14-FEB-2013 19:10

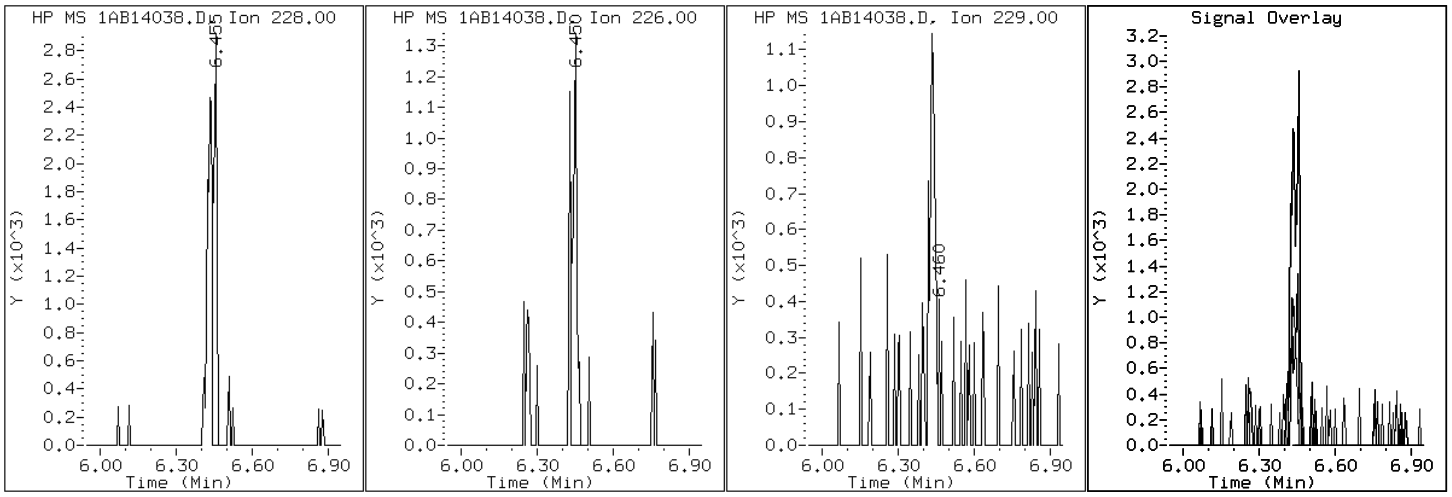
Client ID: FM0018B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-1-a

Operator: SCC

19 Chrysene



Data File: 1AB14038.D

Date: 14-FEB-2013 19:10

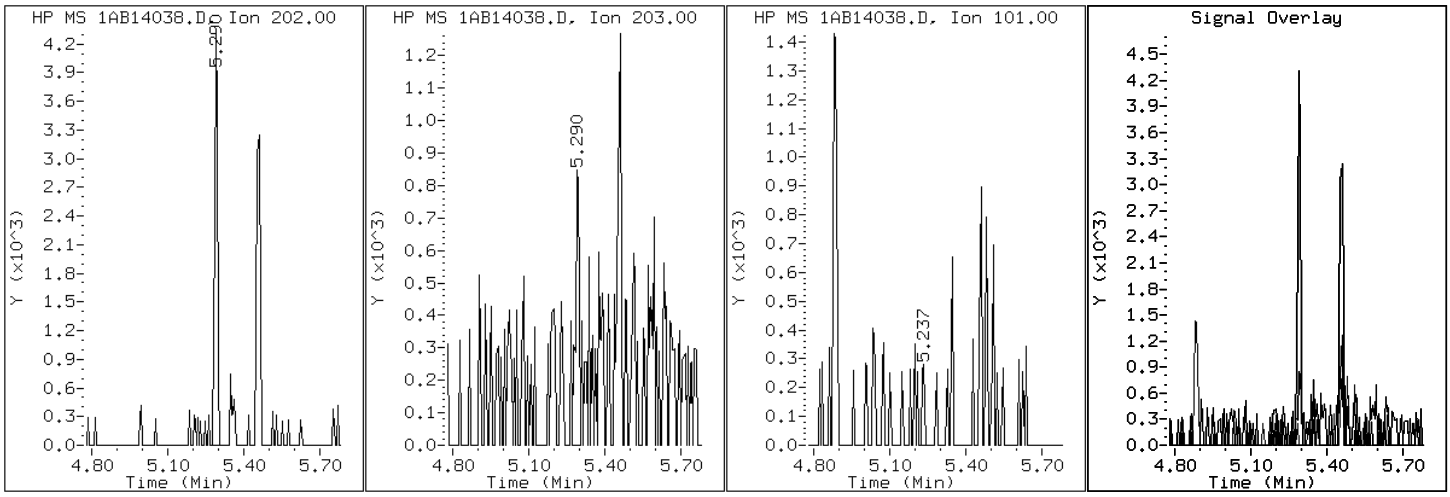
Client ID: FM0018B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-1-a

Operator: SCC

15 Fluoranthene



Data File: 1AB14038.D

Date: 14-FEB-2013 19:10

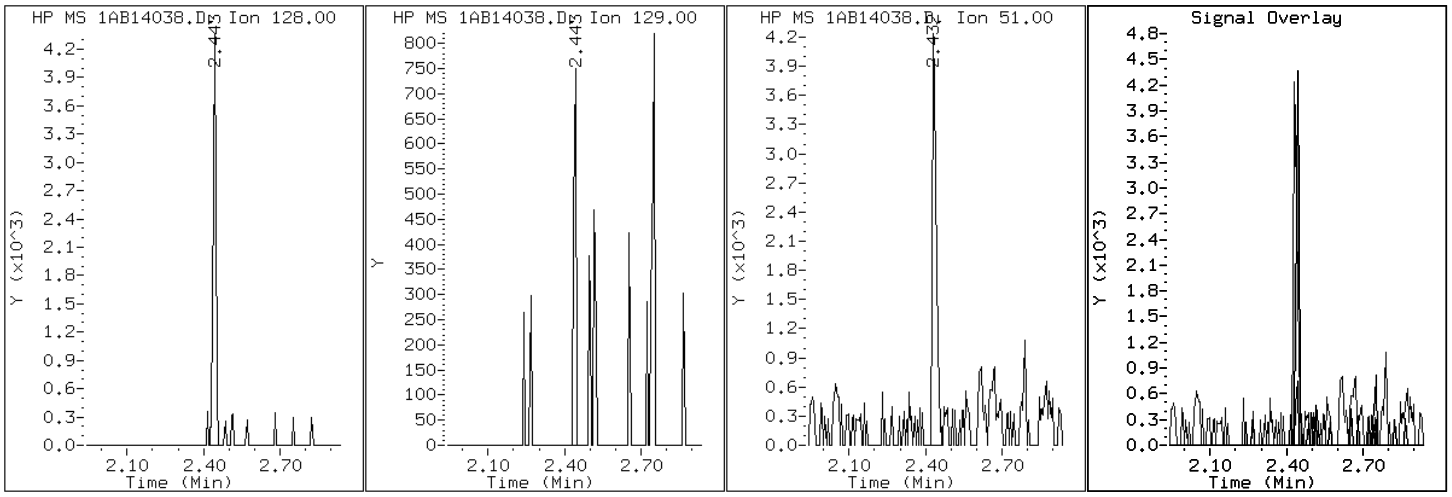
Client ID: FM0018B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-1-a

Operator: SCC

2 Naphthalene



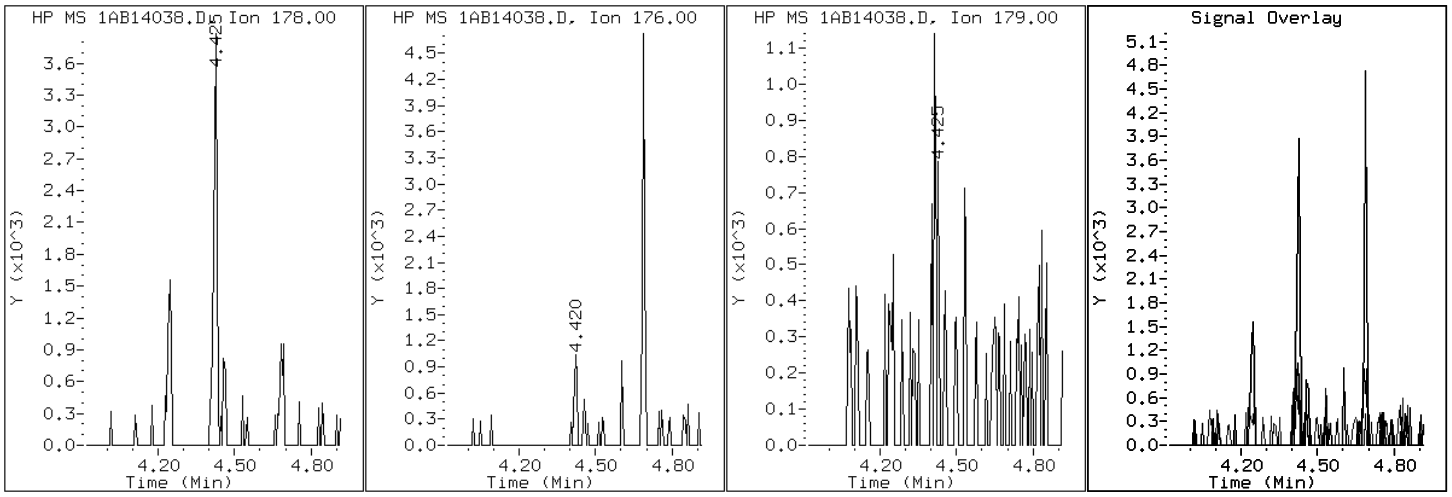
Data File: 1AB14038.D

Date: 14-FEB-2013 19:10

Client ID: FM0018B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-1-a Operator: SCC

11 Phenanthrene



Data File: 1AB14038.D

Date: 14-FEB-2013 19:10

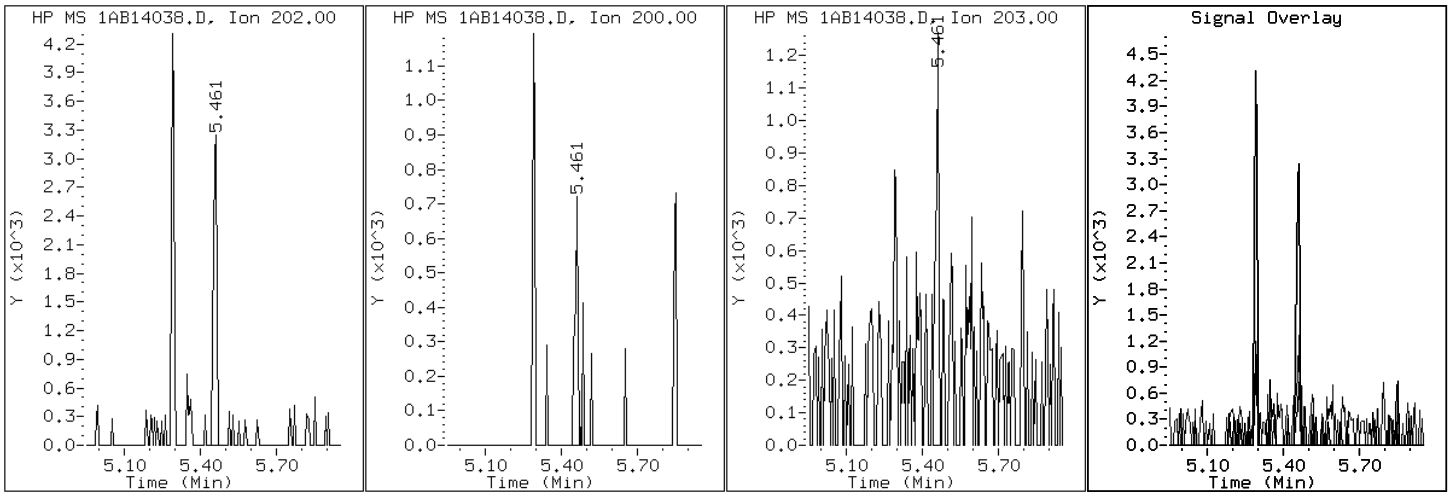
Client ID: FM0018B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-1-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14038.D
Inj. Date and Time: 14-FEB-2013 19:10
Instrument ID: BSMA5973.i
Client ID: FM0018B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

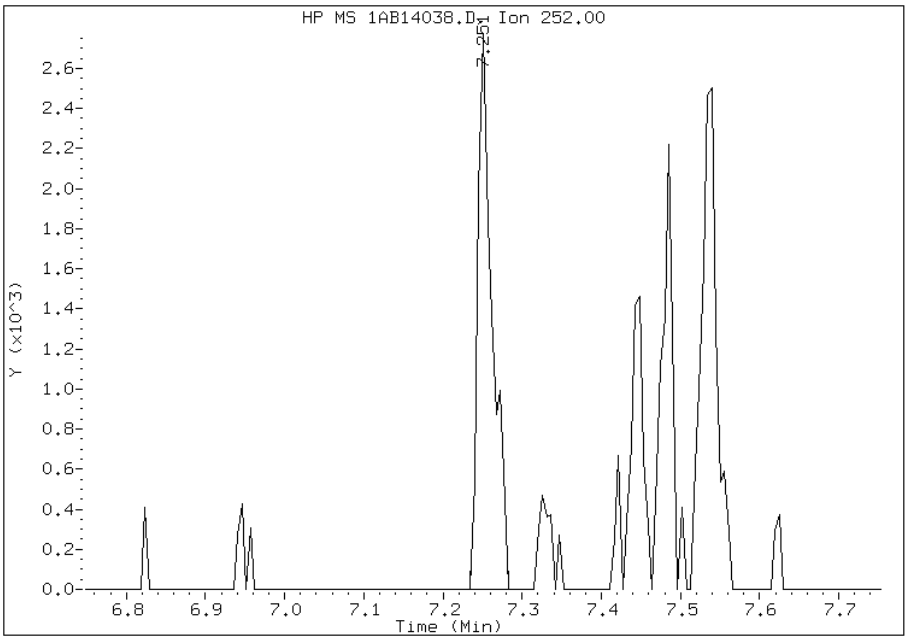
Processing Integration Results

RT: 7.25

Response: 3465

Amount: 0

Conc: 16



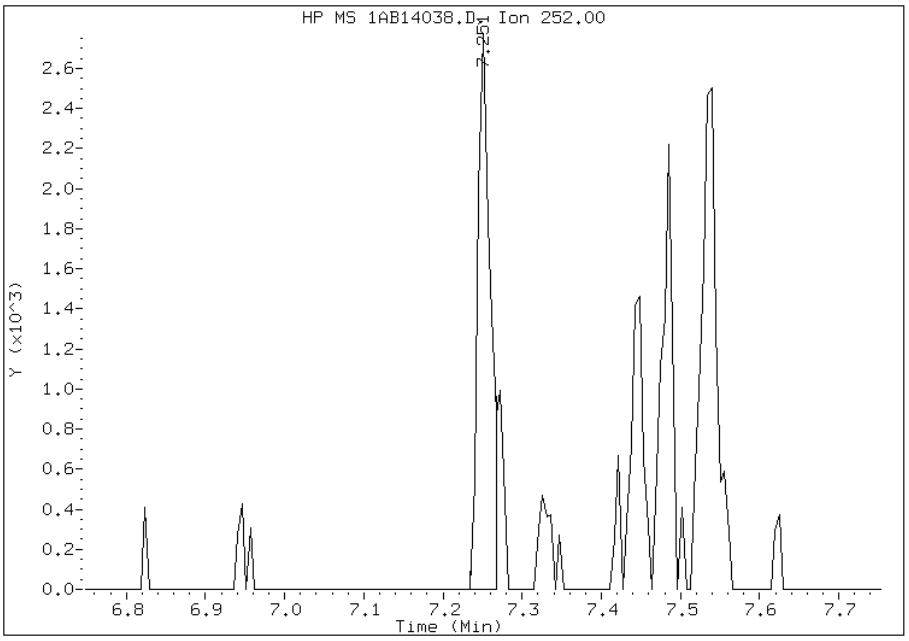
Manual Integration Results

RT: 7.25

Response: 3003

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0018C-CS | Lab Sample ID: 680-87279-2

Matrix: Solid | Lab File ID: 1AB14039.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 08:59

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.47(g) | Date Analyzed: 02/14/2013 19:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	97
208-96-8	Acenaphthylene	91	J	190	24
120-12-7	Anthracene	87		41	20
56-55-3	Benzo[a]anthracene	160		39	19
50-32-8	Benzo[a]pyrene	130		50	25
205-99-2	Benzo[b]fluoranthene	260		59	29
191-24-2	Benzo[g,h,i]perylene	97		97	21
207-08-9	Benzo[k]fluoranthene	75		39	17
218-01-9	Chrysene	270		43	22
53-70-3	Dibenz(a,h)anthracene	33	J	97	20
206-44-0	Fluoranthene	550		97	19
86-73-7	Fluorene	97	U	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	120		97	34
90-12-0	1-Methylnaphthalene	190	U	190	21
91-57-6	2-Methylnaphthalene	190	U	190	34
91-20-3	Naphthalene	50	J	190	21
85-01-8	Phenanthrene	200		39	19
129-00-0	Pyrene	380		97	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	105		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14039.D
Lab Smp Id: 680-87279-A-2-A Client Smp ID: FM0018C-CS
Inj Date : 14-FEB-2013 19:25
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-2-a
Misc Info : 680-87279-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 39
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.470	Weight Extracted
M	19.725	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.436	2.430	(1.000)	750106	40.0000	
* 6 Acenaphthene-d10	164	3.462	3.461	(1.000)	459138	40.0000	
* 10 Phenanthrene-d10	188	4.407	4.402	(1.000)	631377	40.0000	
$ 14 o-Terphenyl	230	4.685	4.685	(1.063)	24181	2.63575	848.9695
* 18 Chrysene-d12	240	6.437	6.426	(1.000)	556197	40.0000	
* 23 Perylene-d12	264	7.538	7.527	(1.000)	520059	40.0000	
2 Naphthalene	128	2.441	2.441	(1.002)	2815	0.15461	49.8003(Q)
5 Acenaphthylene	152	3.376	3.371	(0.975)	5719	0.28210	90.8623
11 Phenanthrene	178	4.423	4.418	(1.004)	10850	0.62938	202.7209
12 Anthracene	178	4.455	4.455	(1.011)	4723	0.26871	86.5514
13 Carbazole	167	4.616	4.610	(1.047)	1644	0.10912	35.1464
15 Fluoranthene	202	5.289	5.283	(1.200)	28975	1.69527	546.0424
16 Pyrene	202	5.460	5.454	(0.848)	23664	1.17807	379.4550
17 Benzo(a)anthracene	228	6.432	6.416	(0.999)	8056	0.48509	156.2460

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.448	6.448	(1.002)	13521	0.83527	269.0403
20 Benzo(b)fluoranthene	252	7.249	7.244	(0.962)	11707	0.80655	259.7871(M)
21 Benzo(k)fluoranthene	252	7.265	7.265	(0.964)	3533	0.23280	74.9855(QM)
22 Benzo(a)pyrene	252	7.484	7.479	(0.993)	5493	0.39852	128.3613
24 Indeno(1,2,3-cd)pyrene	276	8.280	8.275	(1.099)	4180	0.38405	123.7023(M)
25 Dibenzo(a,h)anthracene	278	8.286	8.291	(1.099)	1116	0.10257	33.0363(M)
26 Benzo(g,h,i)perylene	276	8.494	8.494	(1.127)	3407	0.30215	97.3229

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14039.D

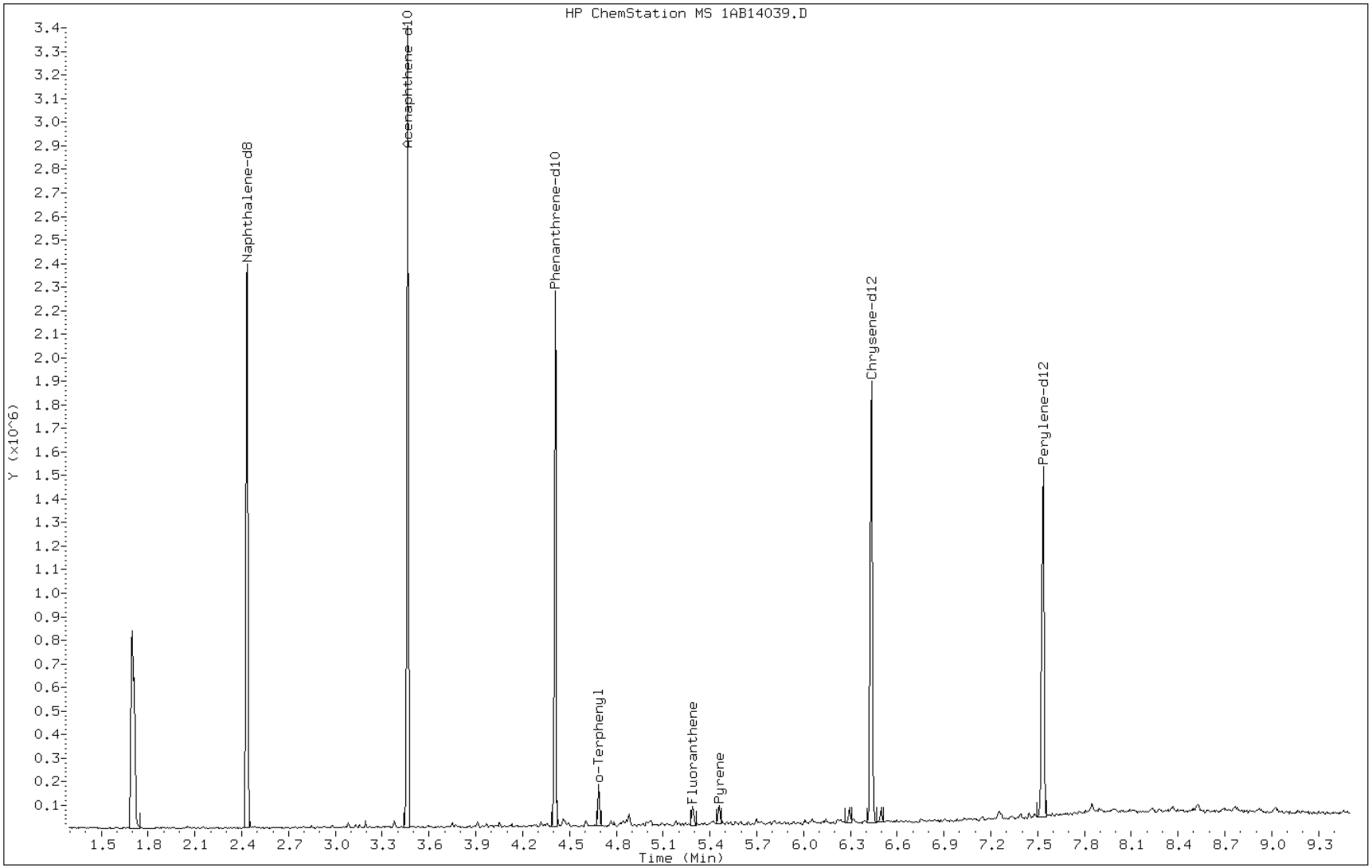
Date: 14-FEB-2013 19:25

Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC



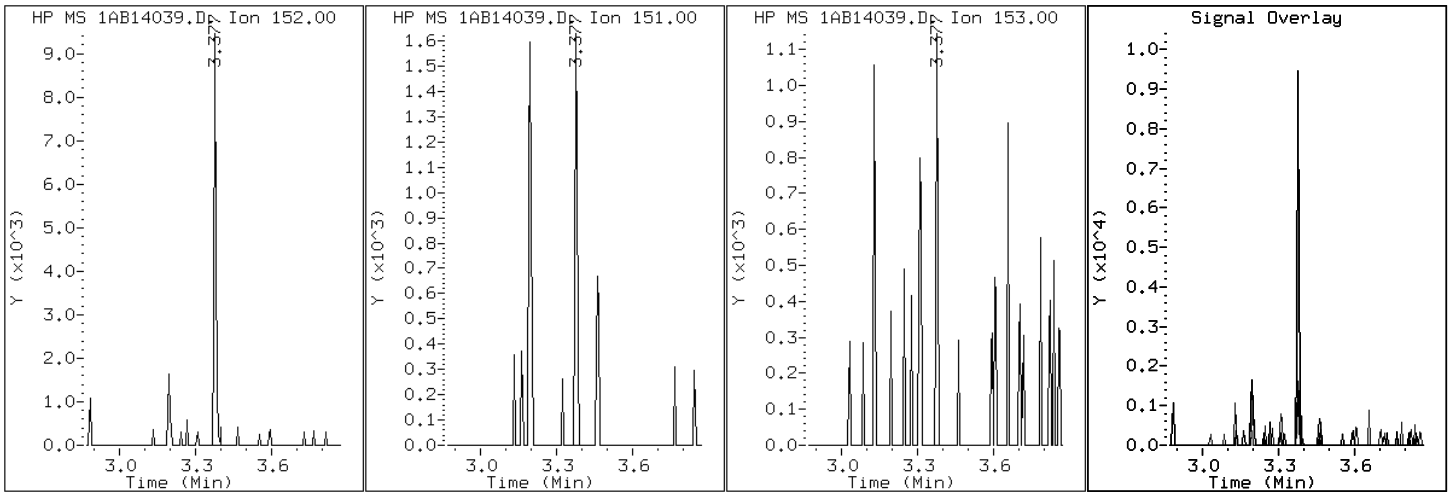
Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

Client ID: FM0018C-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a Operator: SCC

5 Acenaphthylene



Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

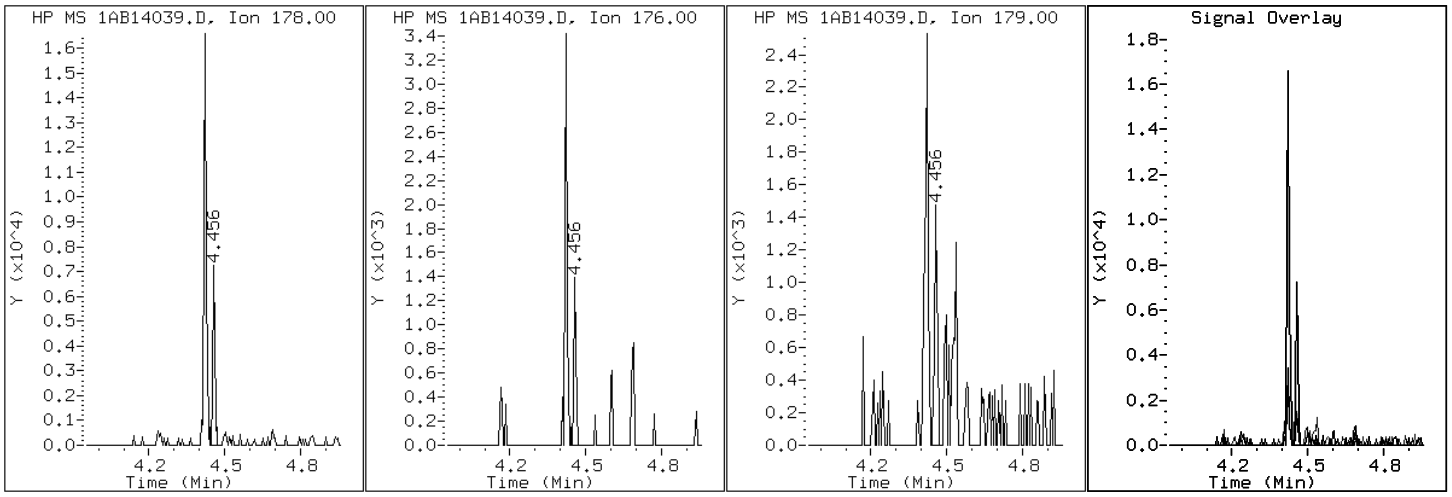
Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC

12 Anthracene



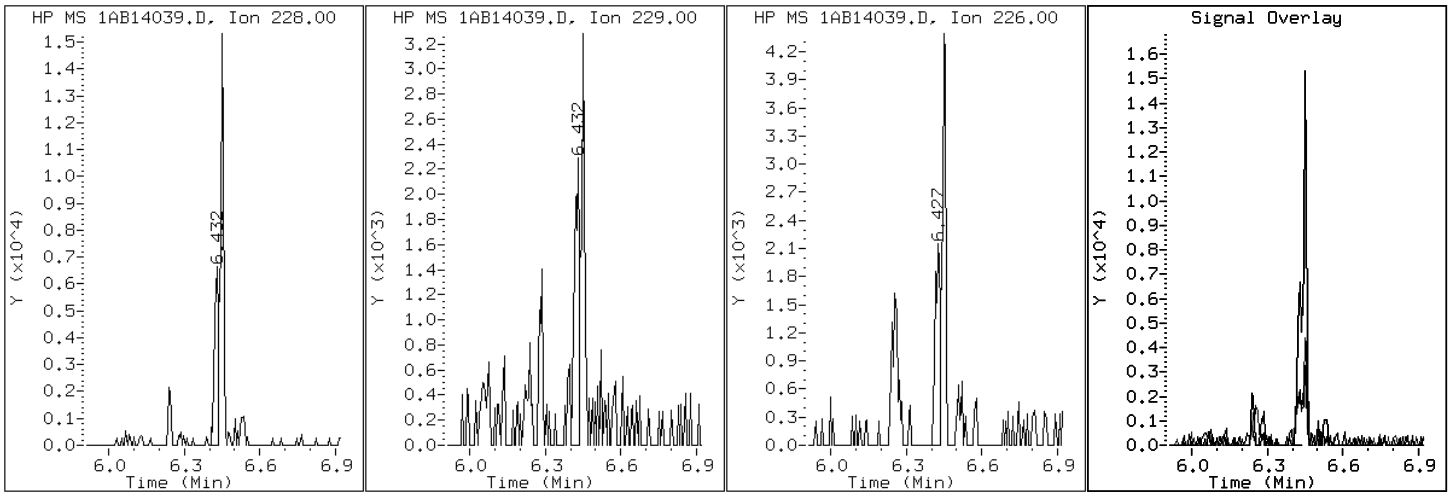
Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

Client ID: FM0018C-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

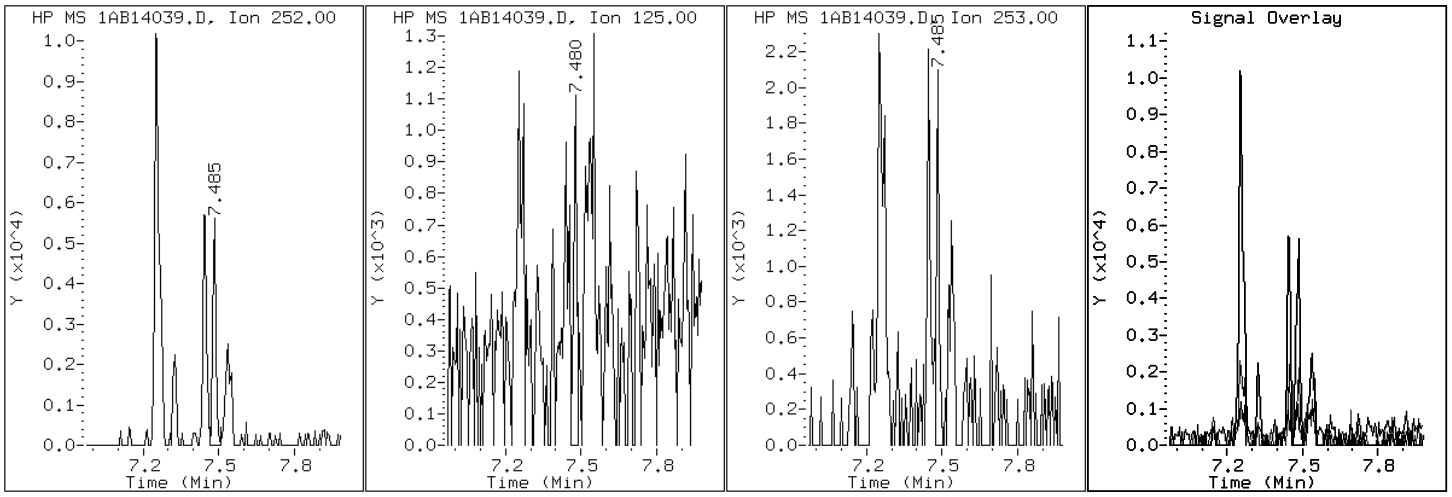
Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC

22 Benzo(a)pyrene



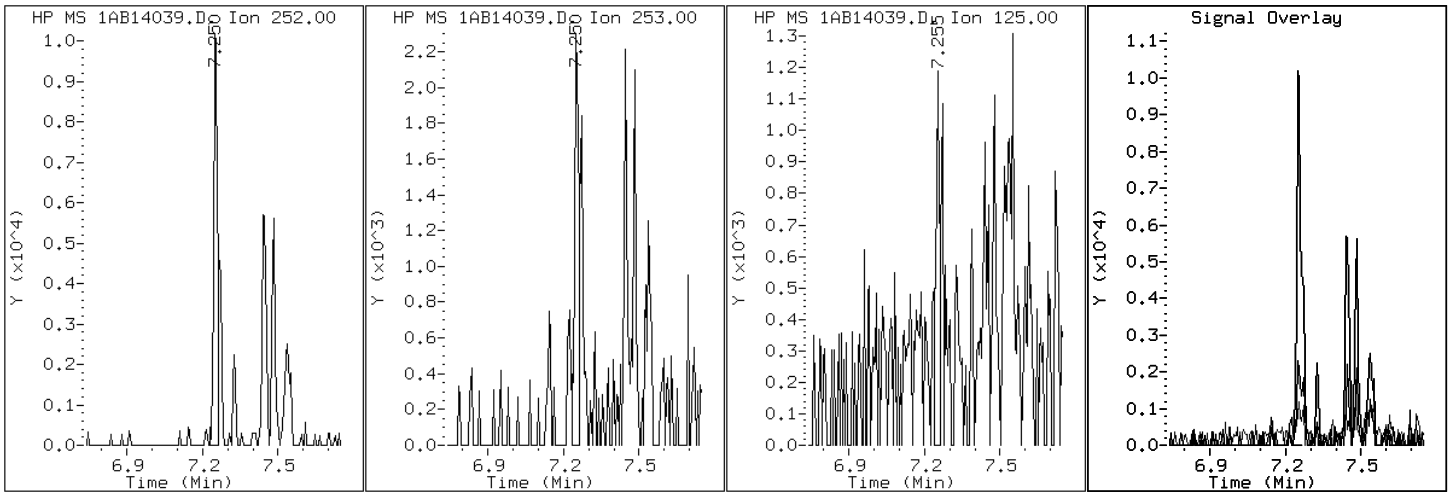
Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

Client ID: FM0018C-CS | Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a | Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

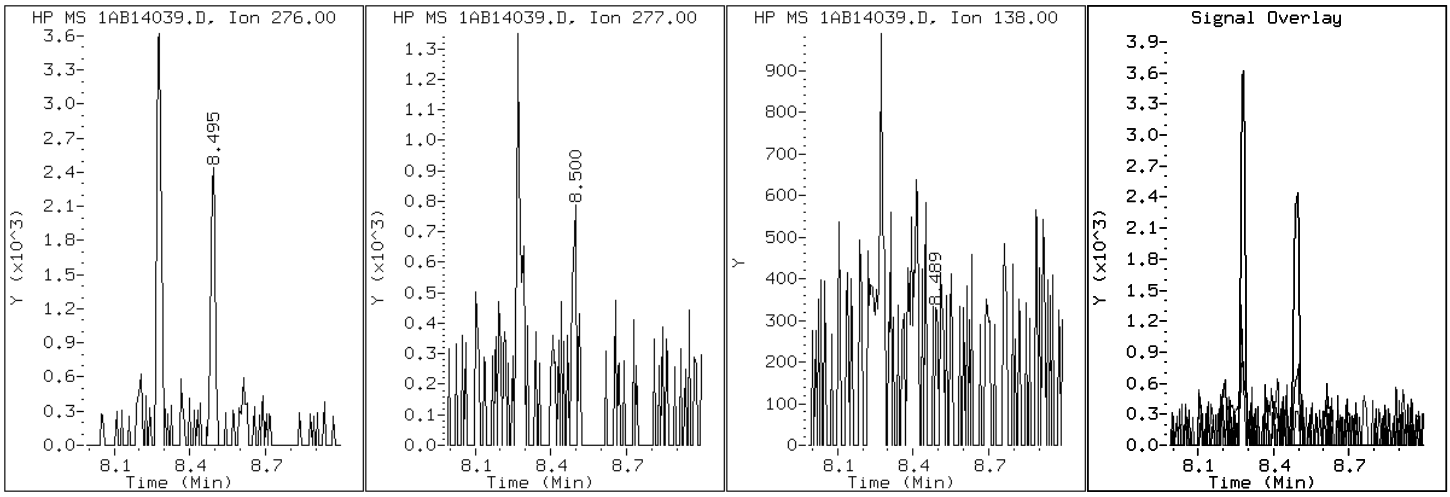
Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

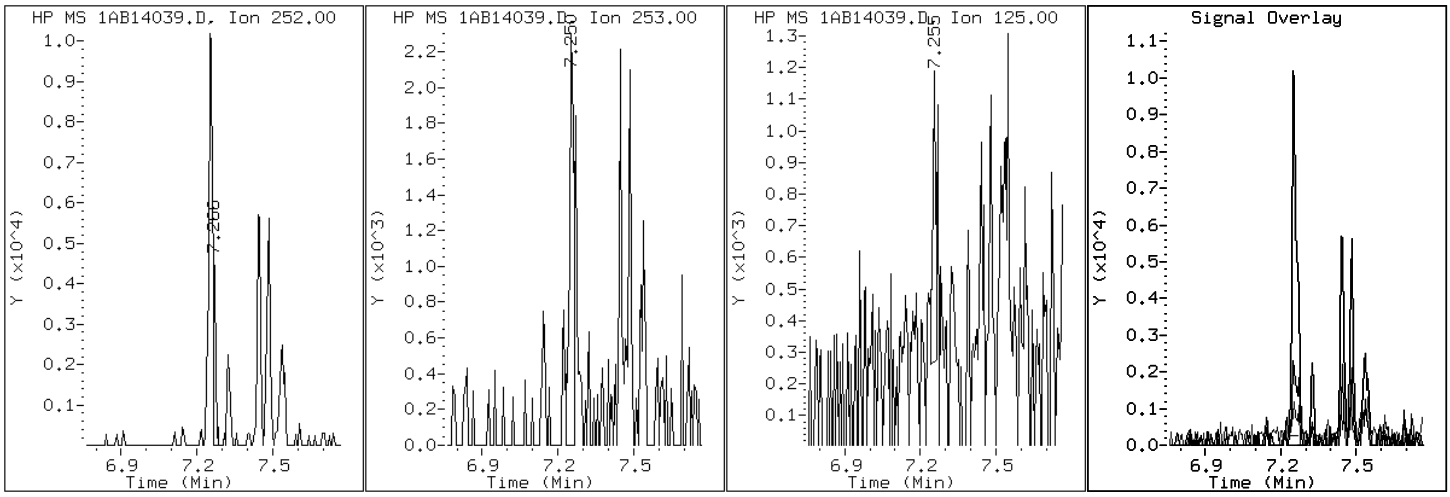
Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

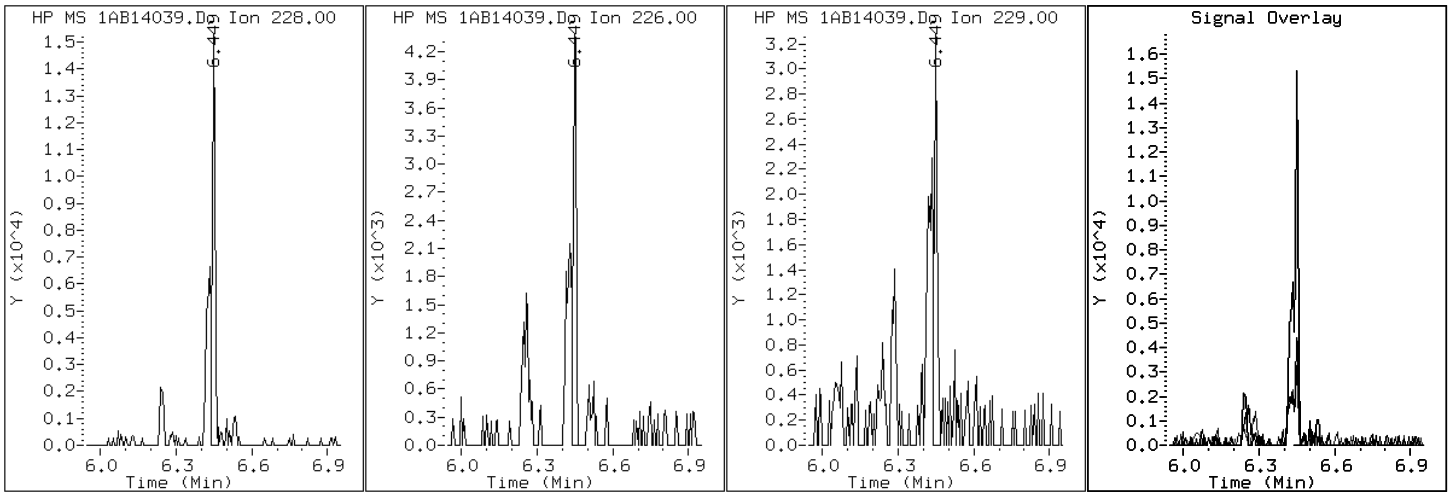
Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC

19 Chrysene



Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

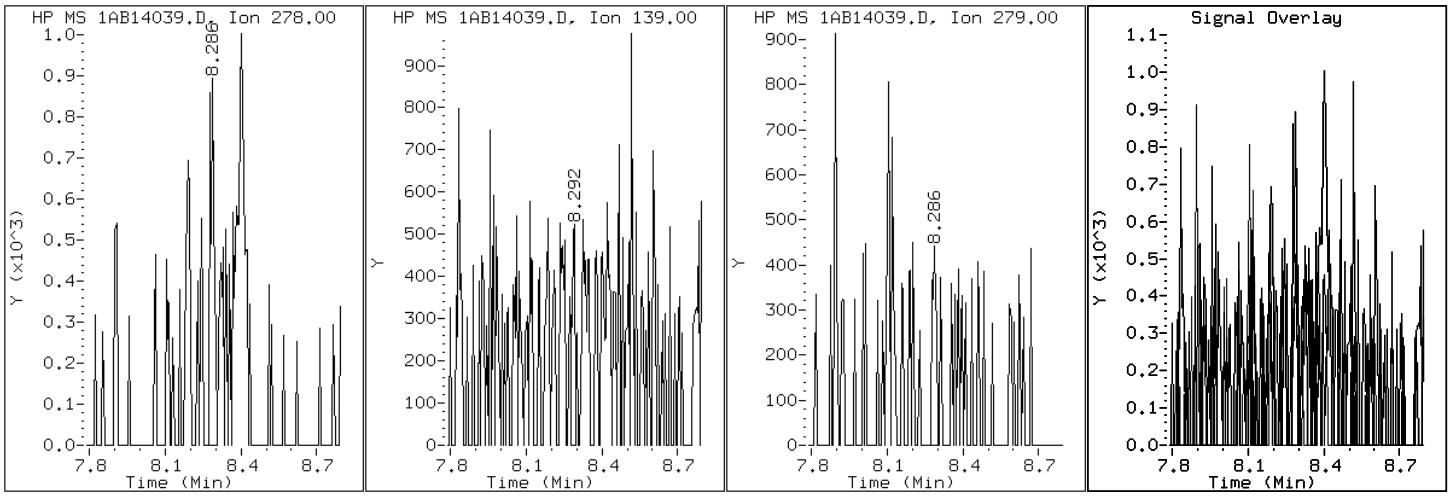
Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

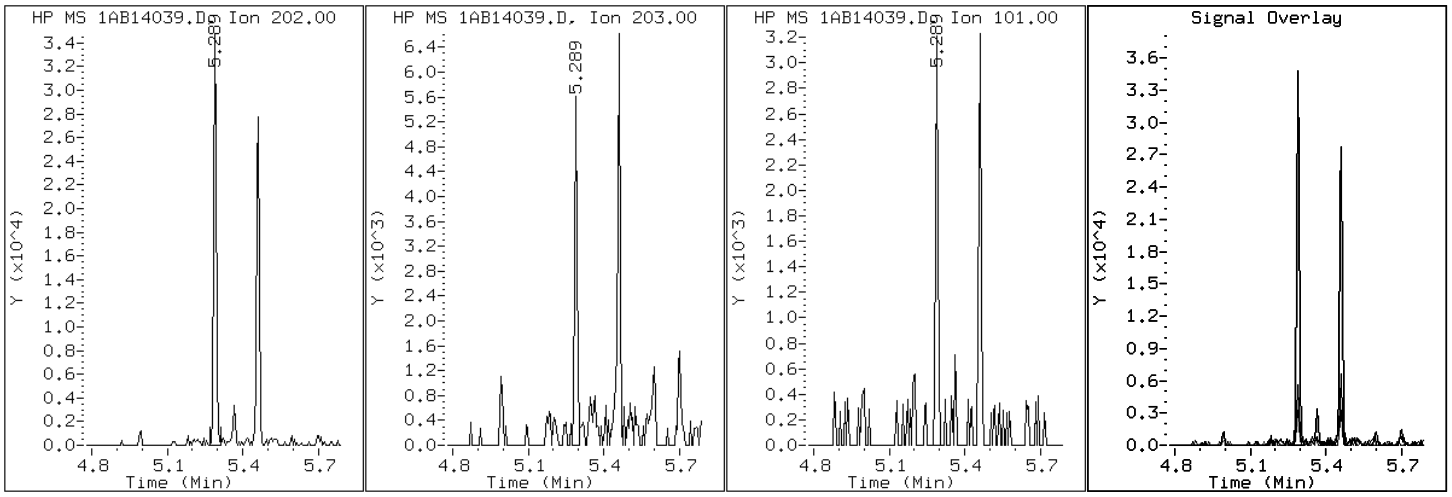
Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

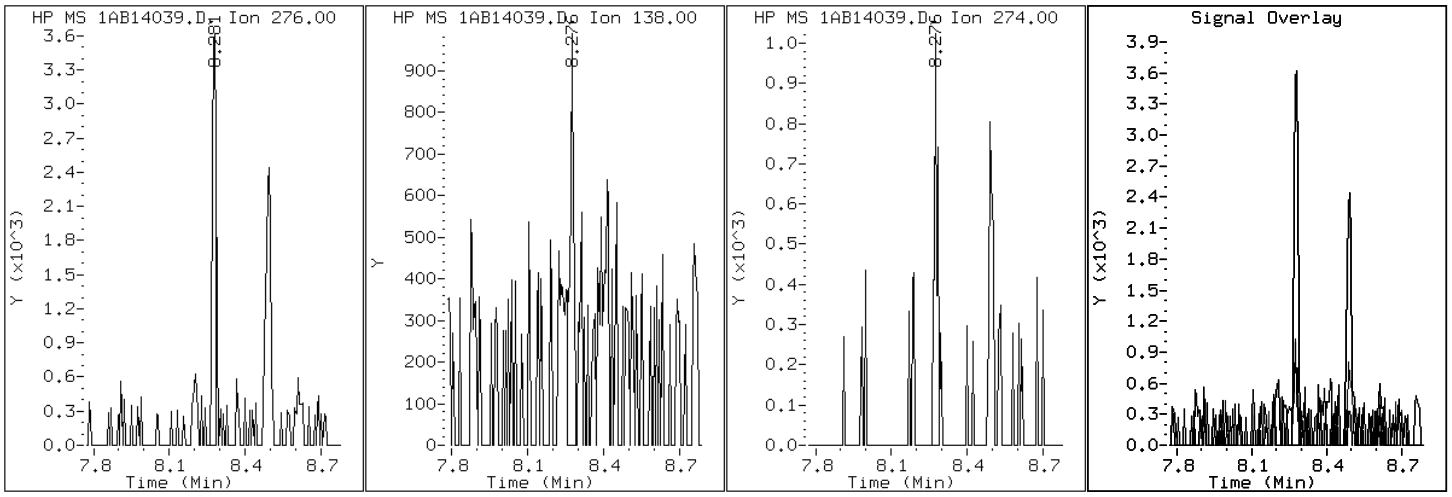
Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

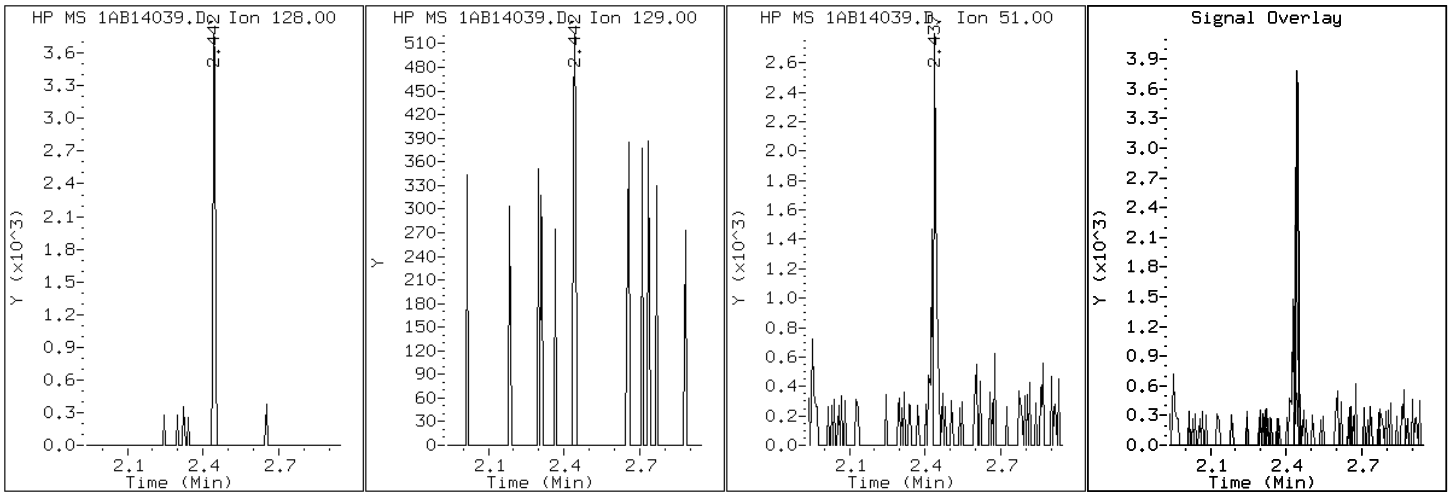
Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

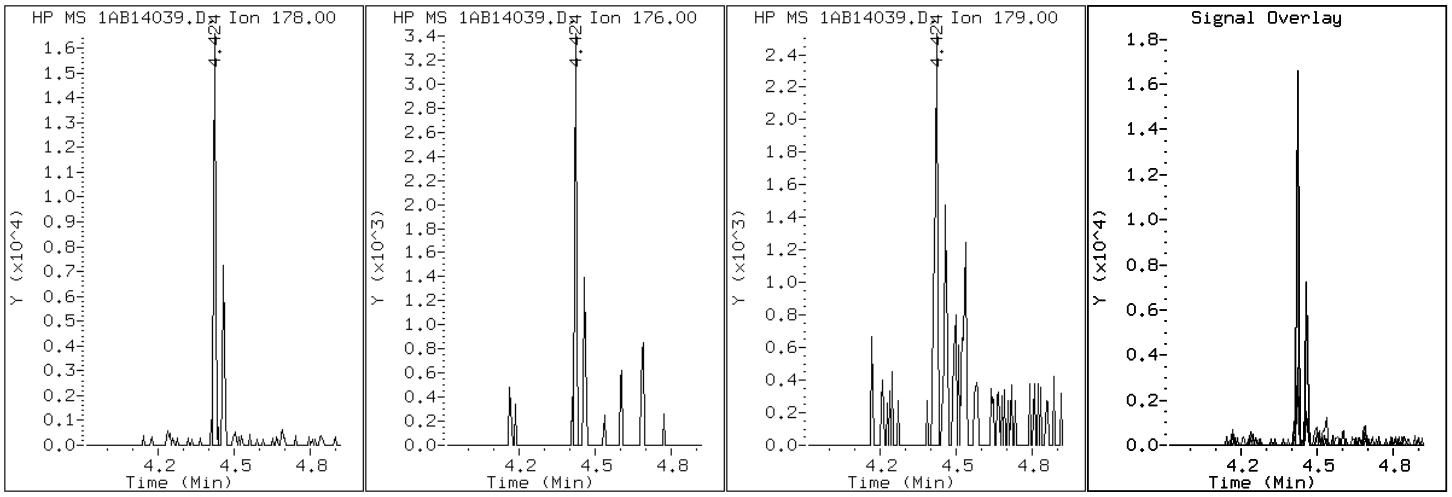
Client ID: FM0018C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a

Operator: SCC

11 Phenanthrene



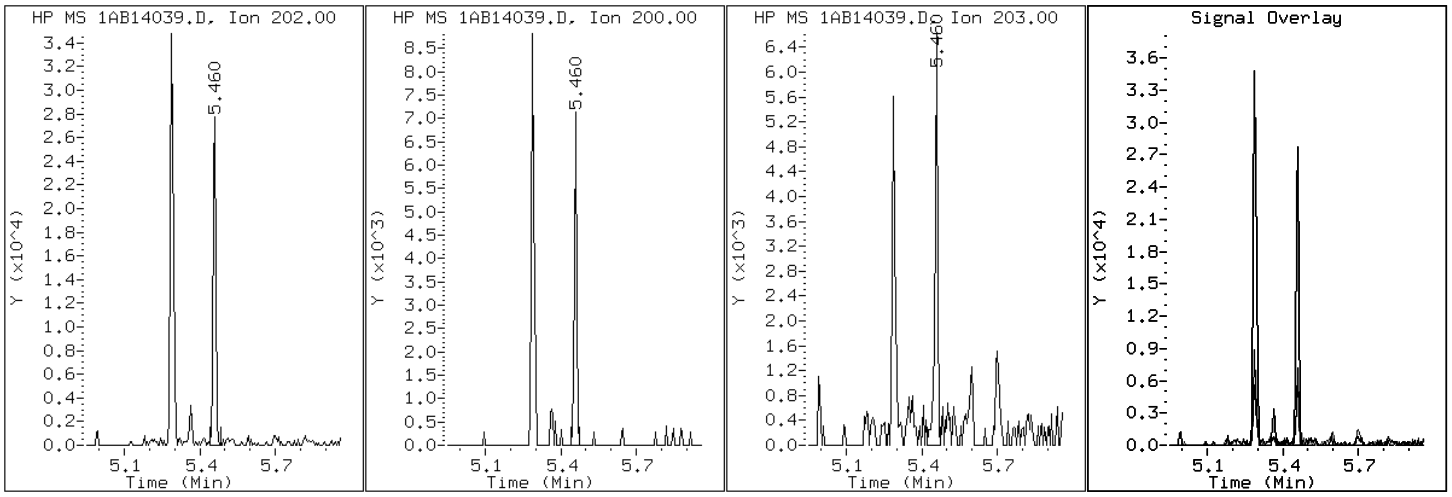
Data File: 1AB14039.D

Date: 14-FEB-2013 19:25

Client ID: FM0018C-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14039.D
Inj. Date and Time: 14-FEB-2013 19:25
Instrument ID: BSMA5973.i
Client ID: FM0018C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

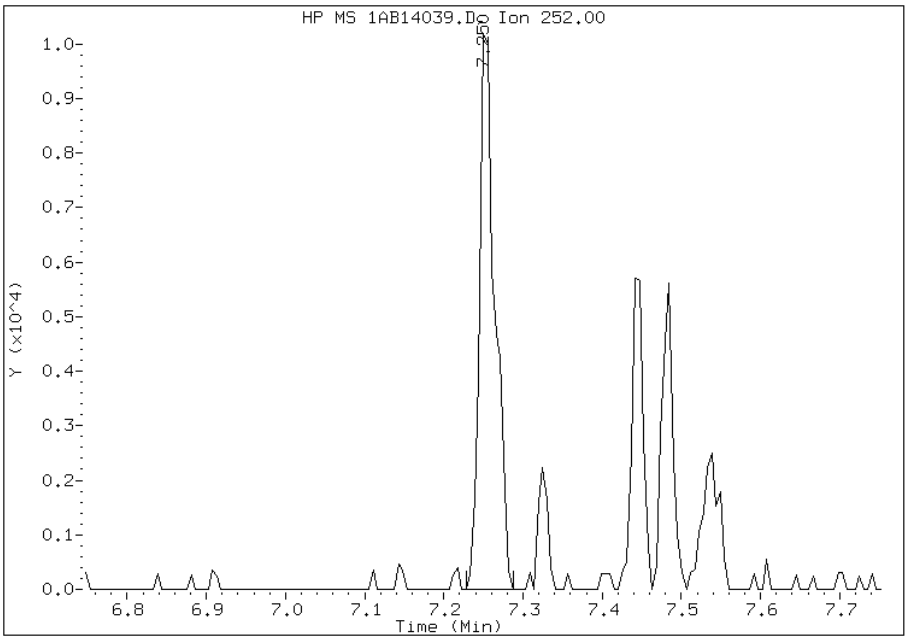
Processing Integration Results

RT: 7.25

Response: 13760

Amount: 1

Conc: 305



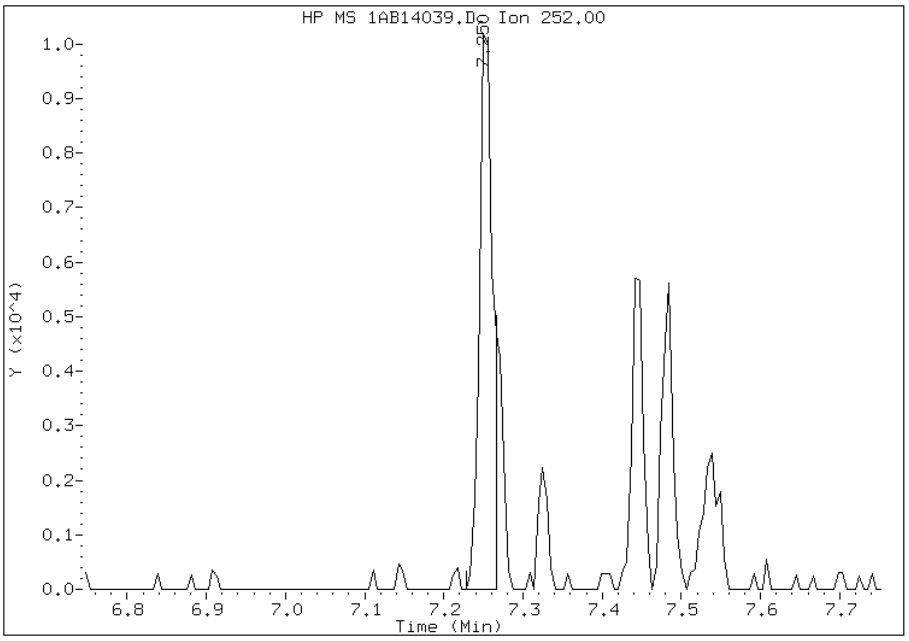
Manual Integration Results

RT: 7.25

Response: 11707

Amount: 1

Conc: 260



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14039.D
Inj. Date and Time: 14-FEB-2013 19:25
Instrument ID: BSMA5973.i
Client ID: FM0018C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

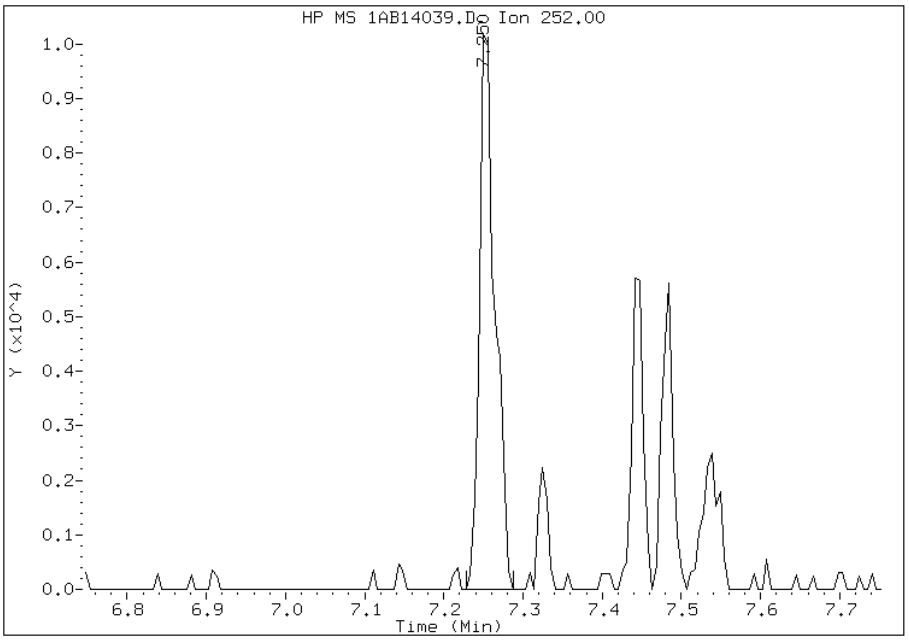
Processing Integration Results

RT: 7.25

Response: 13760

Amount: 1

Conc: 292



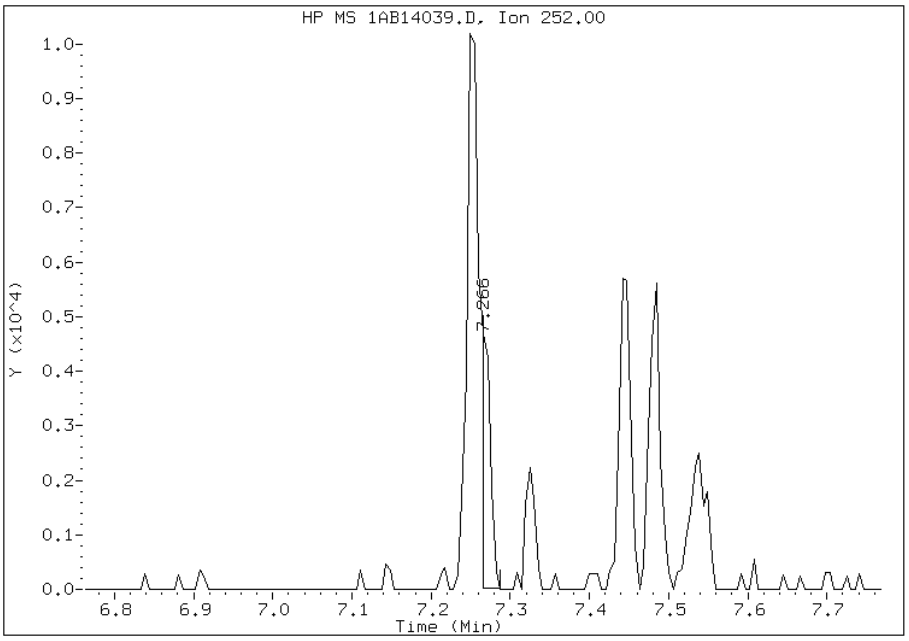
Manual Integration Results

RT: 7.27

Response: 3533

Amount: 0

Conc: 75



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14039.D
Inj. Date and Time: 14-FEB-2013 19:25
Instrument ID: BSMA5973.i
Client ID: FM0018C-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/15/2013

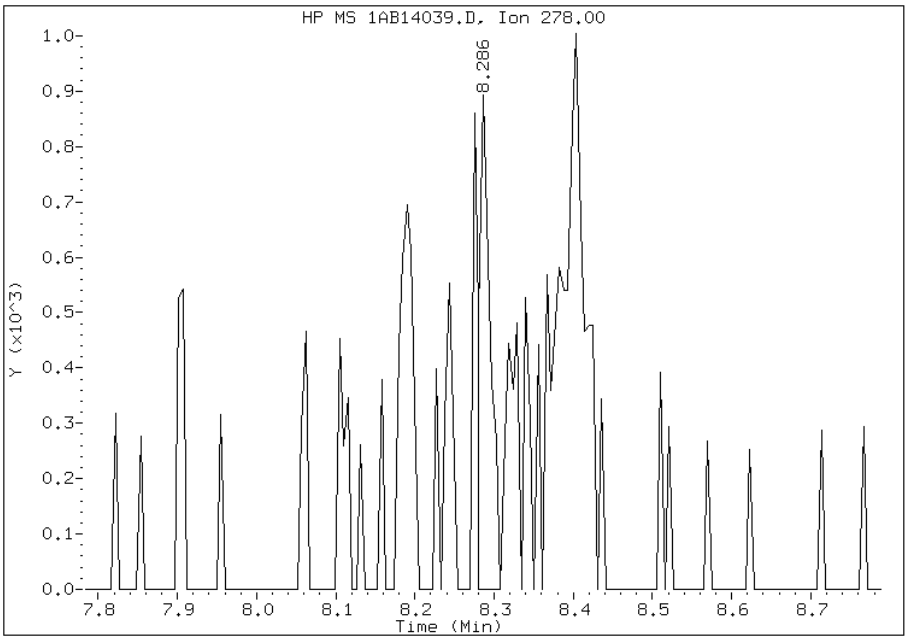
Processing Integration Results

RT: 8.29

Response: 840

Amount: 0

Conc: 25



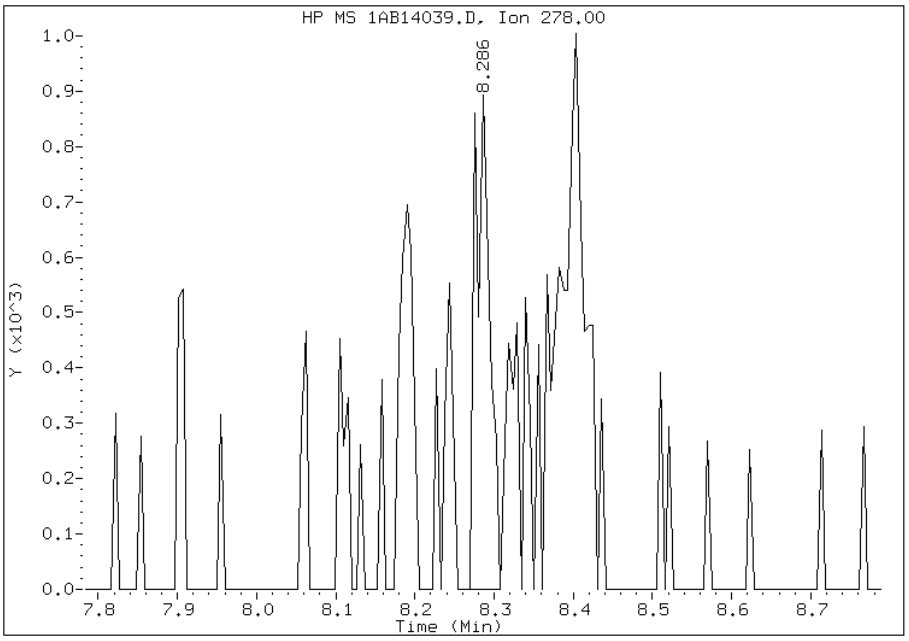
Manual Integration Results

RT: 8.29

Response: 1116

Amount: 0

Conc: 33



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14039.D
Inj. Date and Time: 14-FEB-2013 19:25
Instrument ID: BSMA5973.i
Client ID: FM0018C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

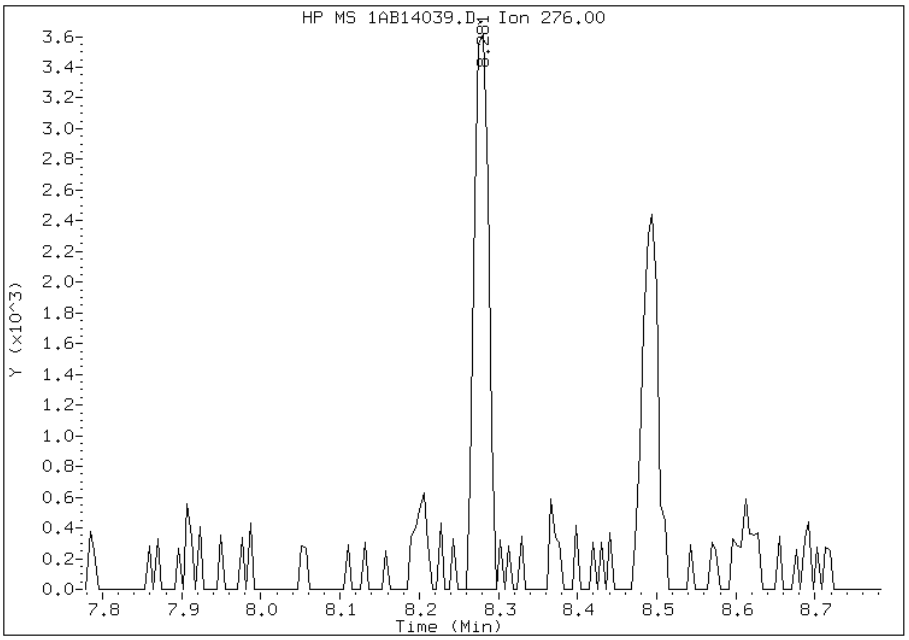
Processing Integration Results

RT: 8.28

Response: 4508

Amount: 0

Conc: 133



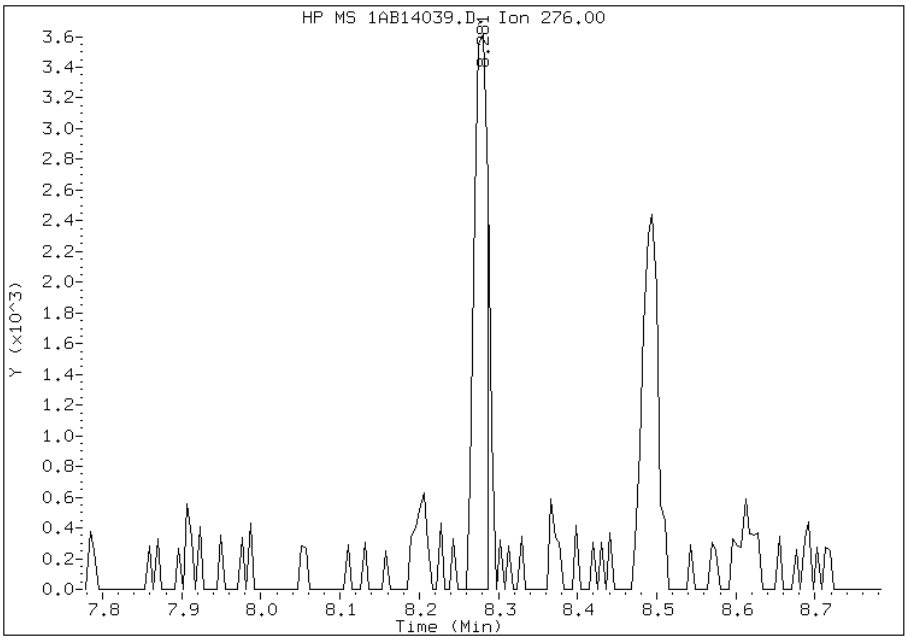
Manual Integration Results

RT: 8.28

Response: 4180

Amount: 0

Conc: 124



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0034B-CS | Lab Sample ID: 680-87279-3

Matrix: Solid | Lab File ID: 1AB14040.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:24

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.21(g) | Date Analyzed: 02/14/2013 19:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 4.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	41	U	41	5.2
120-12-7	Anthracene	12		8.7	4.3
56-55-3	Benzo[a]anthracene	42		8.3	4.0
50-32-8	Benzo[a]pyrene	29		11	5.4
205-99-2	Benzo[b]fluoranthene	49		13	6.3
191-24-2	Benzo[g,h,i]perylene	27		21	4.5
207-08-9	Benzo[k]fluoranthene	10		8.3	3.7
218-01-9	Chrysene	41		9.3	4.7
53-70-3	Dibenz(a,h)anthracene	12	J	21	4.2
206-44-0	Fluoranthene	62		21	4.1
86-73-7	Fluorene	5.4	J	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	29		21	7.3
90-12-0	1-Methylnaphthalene	8.5	J	41	4.5
91-57-6	2-Methylnaphthalene	16	J	41	7.3
91-20-3	Naphthalene	23	J	41	4.5
85-01-8	Phenanthrene	50		8.3	4.0
129-00-0	Pyrene	49		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14040.D
Lab Smp Id: 680-87279-A-3-A Client Smp ID: FM0034B-CS
Inj Date : 14-FEB-2013 19:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-3-a
Misc Info : 680-87279-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	Weight Extracted
M	4.605	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.433	2.430	(1.000)	865462	40.0000	
* 6 Acenaphthene-d10	164	3.464	3.461	(1.000)	532380	40.0000	
* 10 Phenanthrene-d10	188	4.409	4.402	(1.000)	734387	40.0000	
$ 14 o-Terphenyl	230	4.687	4.685	(1.063)	91122	8.53919	588.5225
* 18 Chrysene-d12	240	6.439	6.426	(1.000)	574646	40.0000	
* 23 Perylene-d12	264	7.540	7.527	(1.000)	628827	40.0000	
2 Naphthalene	128	2.443	2.441	(1.004)	6896	0.32827	22.6247(Q)
3 2-Methylnaphthalene	141	2.849	2.847	(1.171)	2551	0.22668	15.6228
4 1-Methylnaphthalene	142	2.908	2.900	(1.195)	1576	0.12371	8.5262(Q)
9 Fluorene	166	3.790	3.787	(1.094)	1246	0.07788	5.3677
11 Phenanthrene	178	4.425	4.418	(1.004)	14487	0.72248	49.7931
12 Anthracene	178	4.457	4.455	(1.011)	3618	0.17697	12.1968
13 Carbazole	167	4.612	4.610	(1.046)	3154	0.17998	12.4040
15 Fluoranthene	202	5.291	5.283	(1.200)	17986	0.90472	62.3533

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.456	5.454	(0.847)	14696	0.70813	48.8042
17 Benzo(a)anthracene	228	6.429	6.416	(0.998)	10462	0.60974	42.0233
19 Chrysene	228	6.450	6.448	(1.002)	9952	0.59506	41.0114
20 Benzo(b)fluoranthene	252	7.251	7.244	(0.962)	12389	0.70590	48.6505(M)
21 Benzo(k)fluoranthene	252	7.267	7.265	(0.964)	2677	0.14589	10.0545(QM)
22 Benzo(a)pyrene	252	7.481	7.479	(0.992)	7051	0.42307	29.1578
24 Indeno(1,2,3-cd)pyrene	276	8.282	8.275	(1.098)	5630	0.42780	29.4842(M)
25 Dibenzo(a,h)anthracene	278	8.288	8.291	(1.099)	2285	0.17368	11.9699(H)
26 Benzo(g,h,i)perylene	276	8.496	8.494	(1.127)	5332	0.39108	26.9533

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14040.D

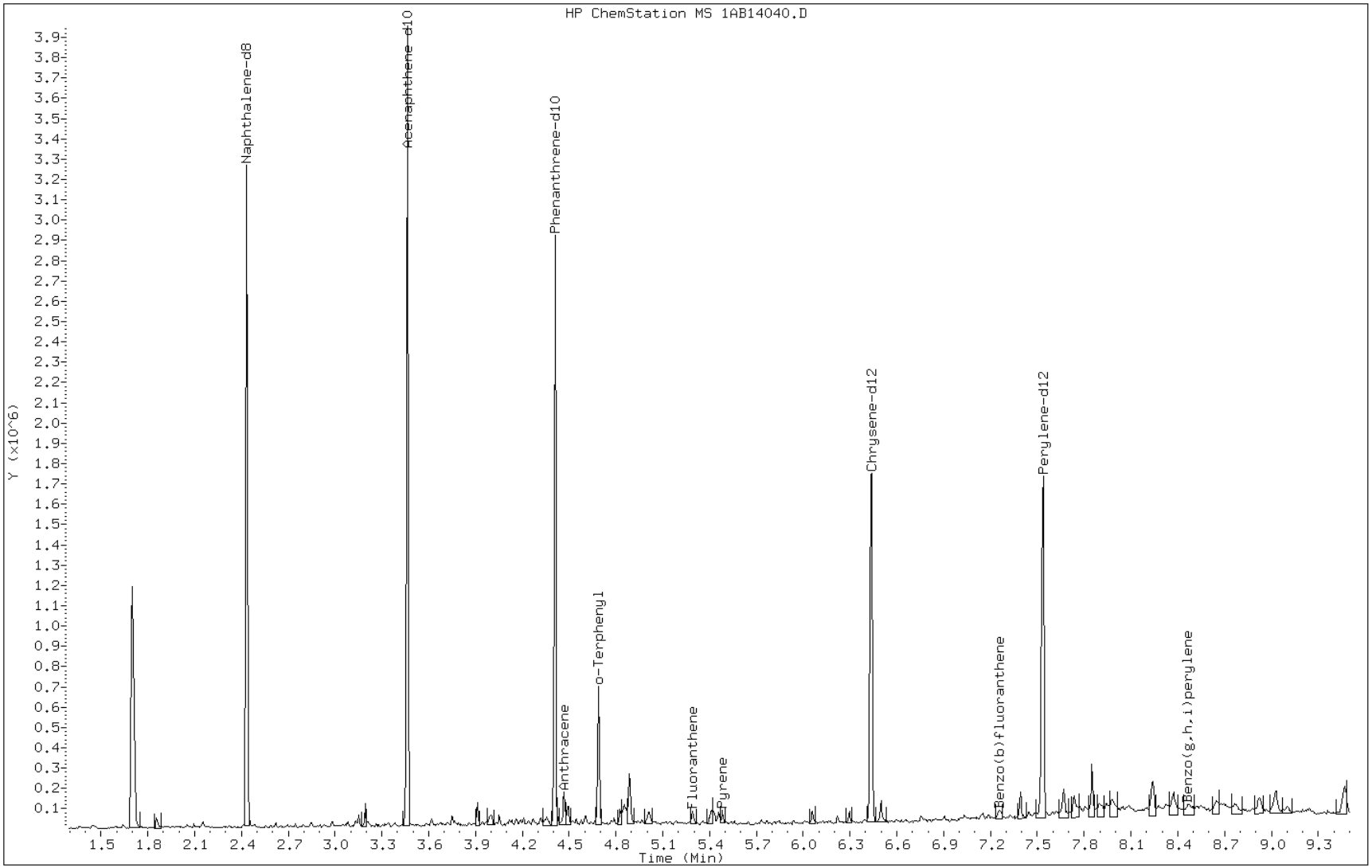
Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a

Operator: SCC



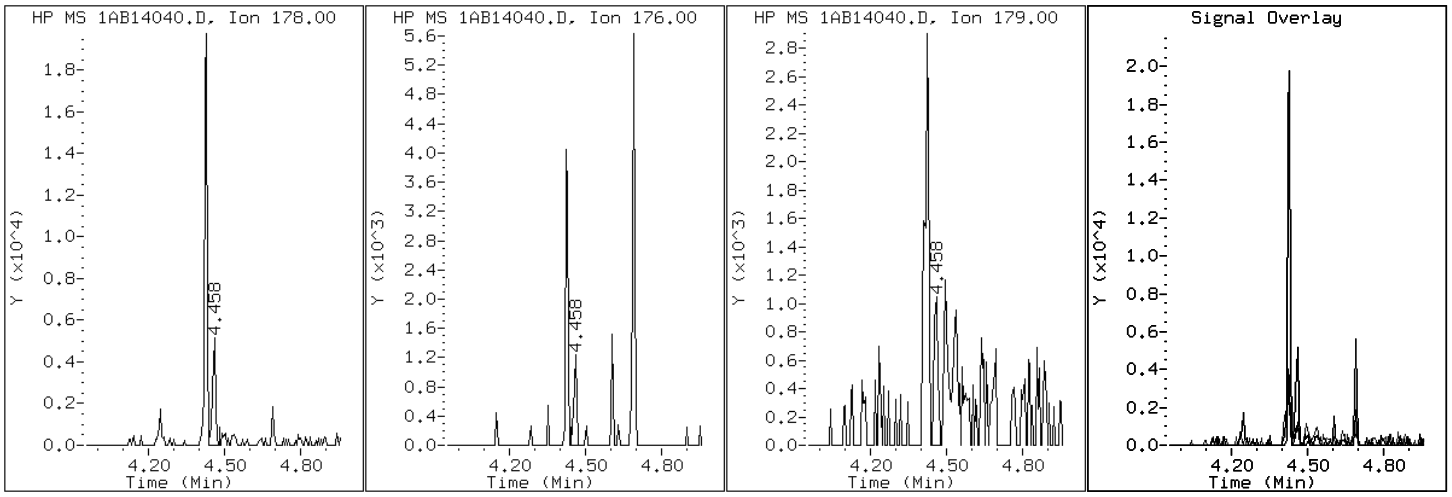
Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a Operator: SCC

12 Anthracene



Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

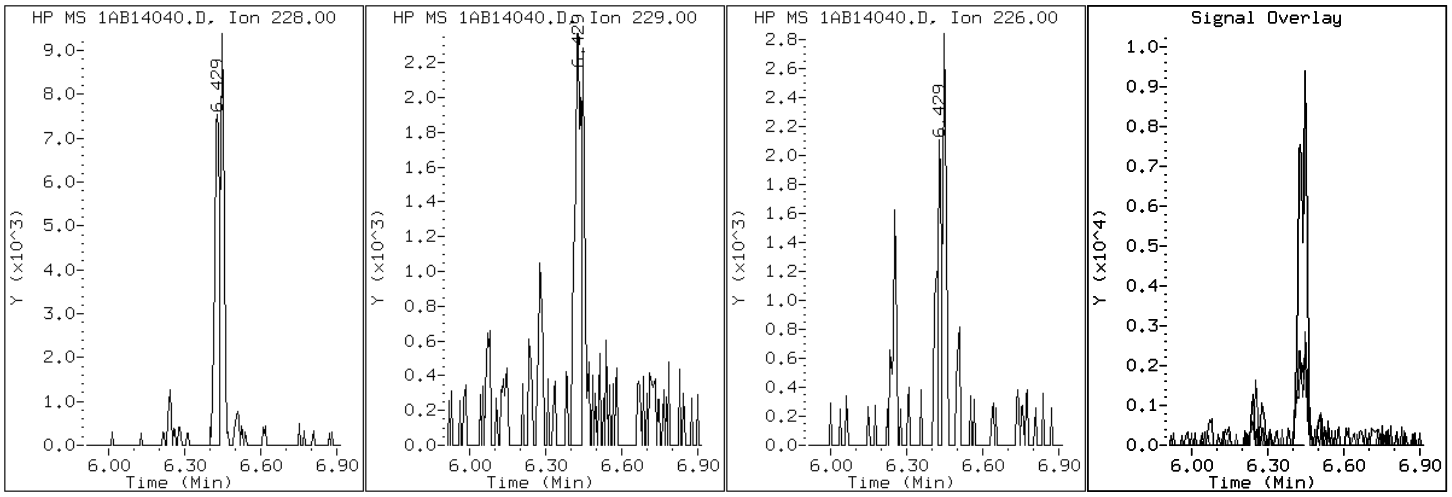
Client ID: FM0034B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a

Operator: SCC

17 Benzo(a)anthracene



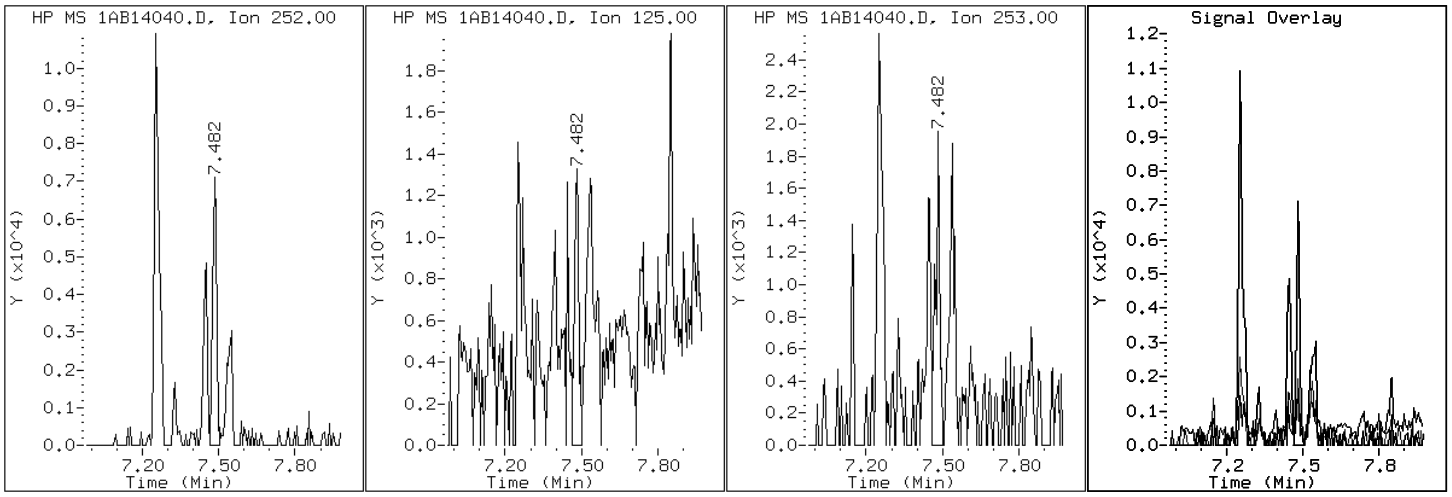
Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a Operator: SCC

22 Benzo(a)pyrene



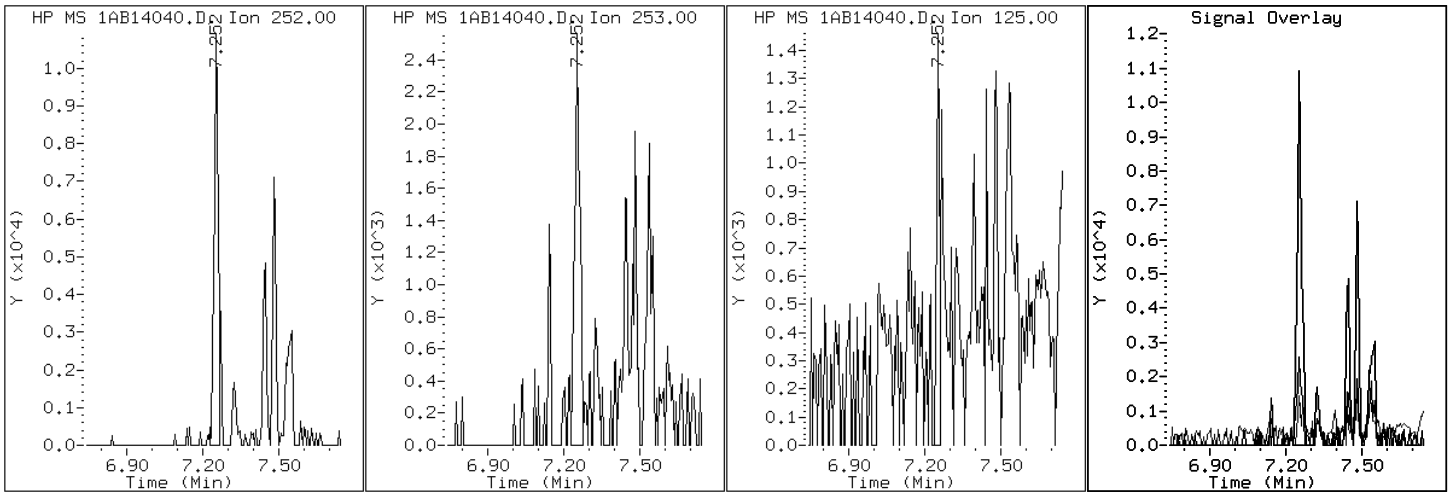
Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



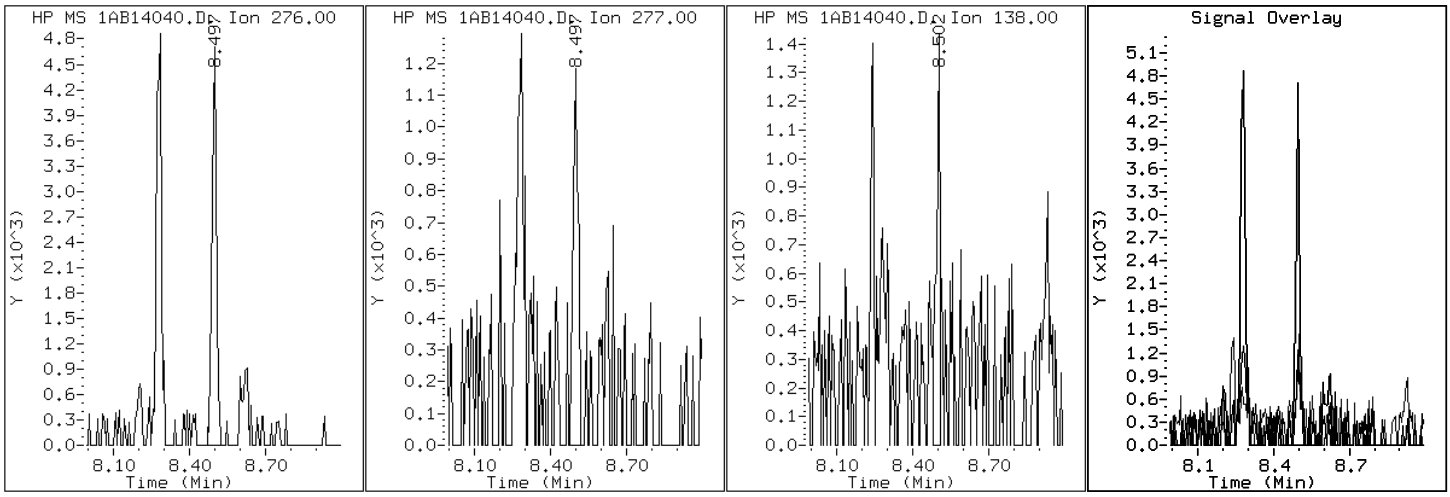
Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



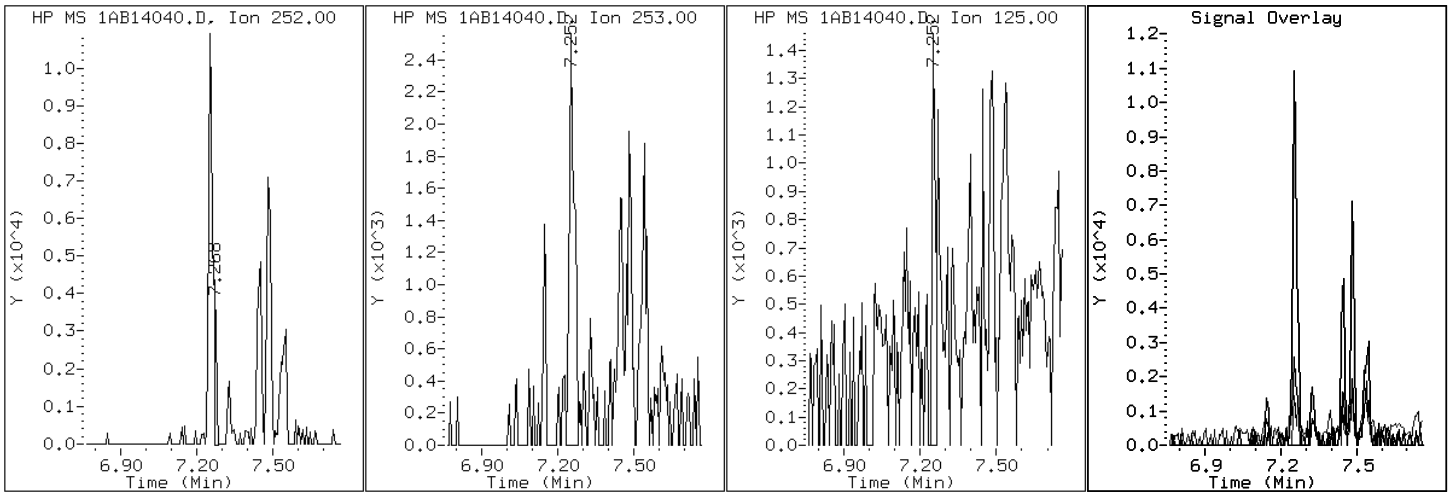
Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



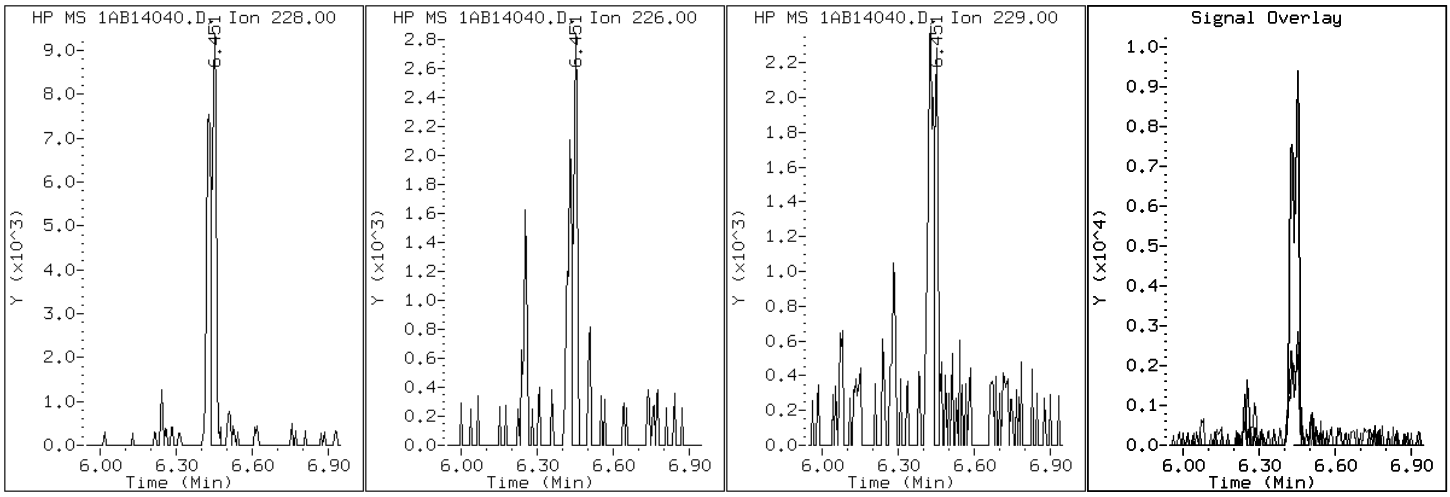
Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a Operator: SCC

19 Chrysene



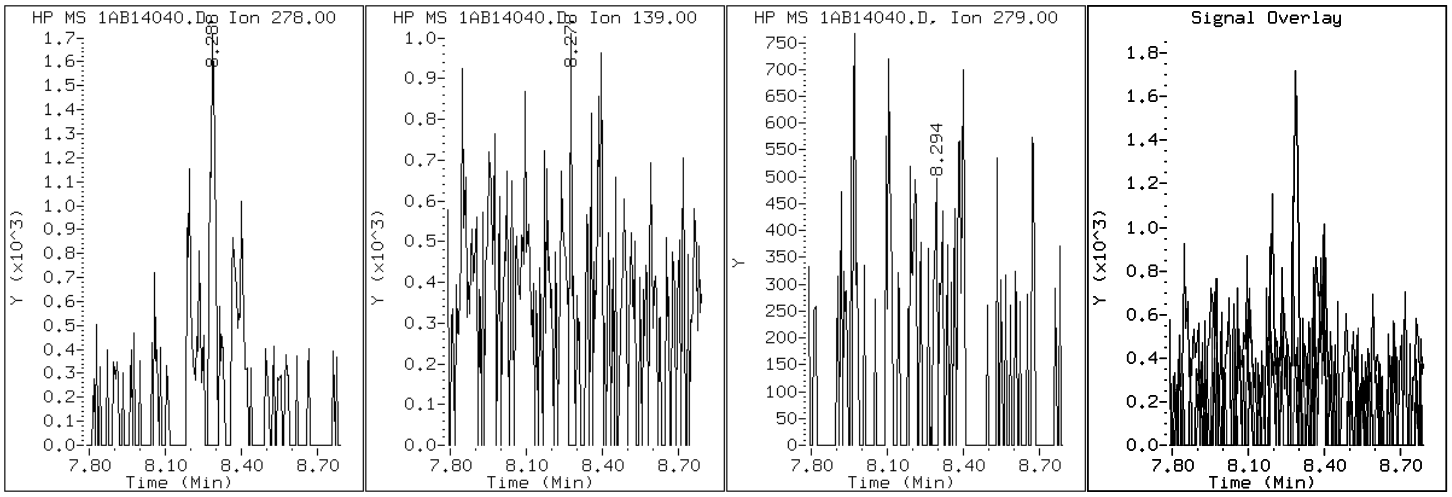
Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

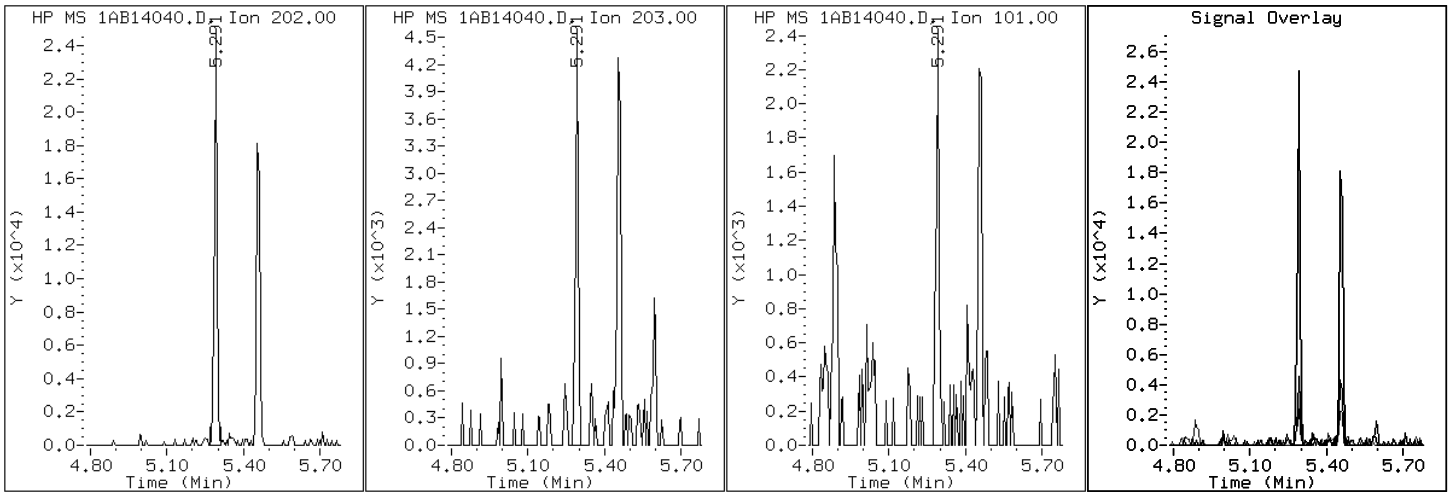
Client ID: FM0034B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a

Operator: SCC

15 Fluoranthene



Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

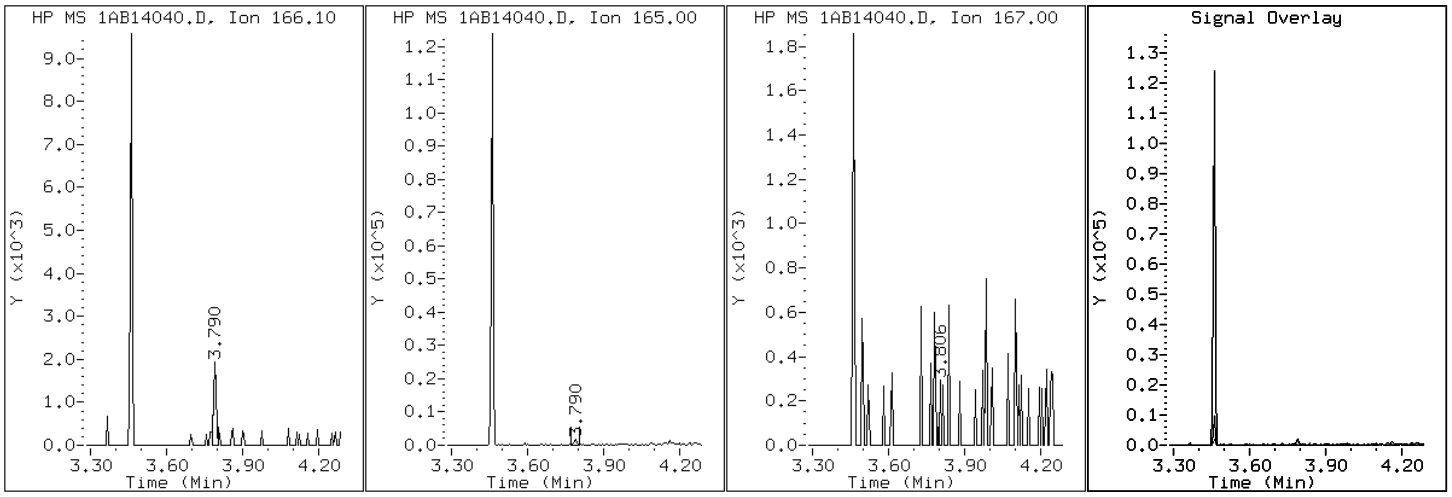
Client ID: FM0034B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a

Operator: SCC

9 Fluorene



Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

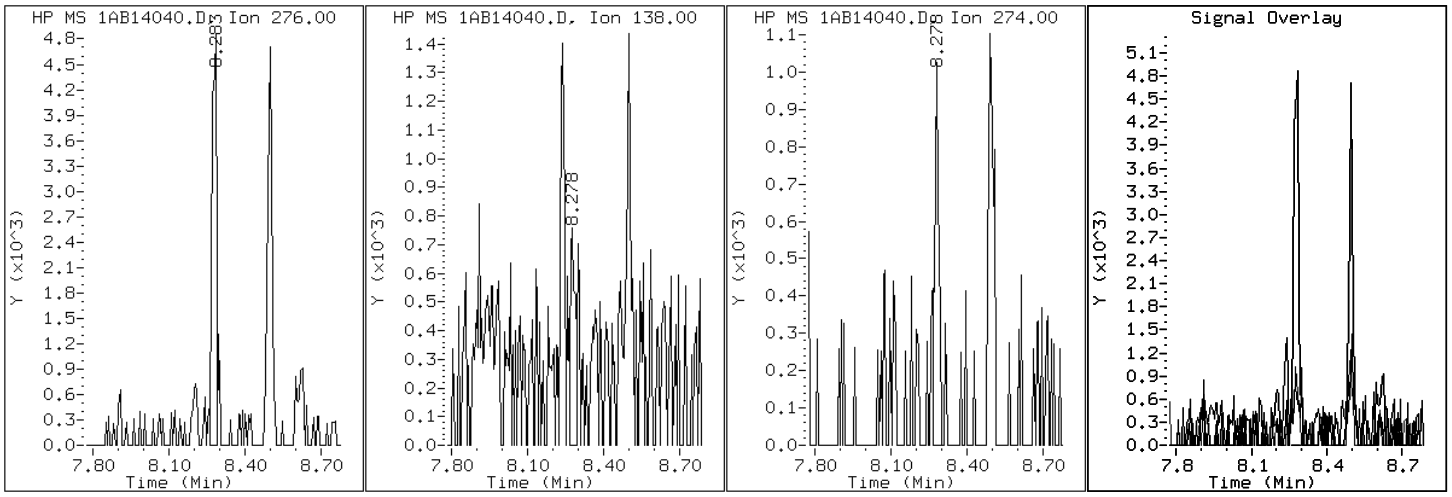
Client ID: FM0034B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



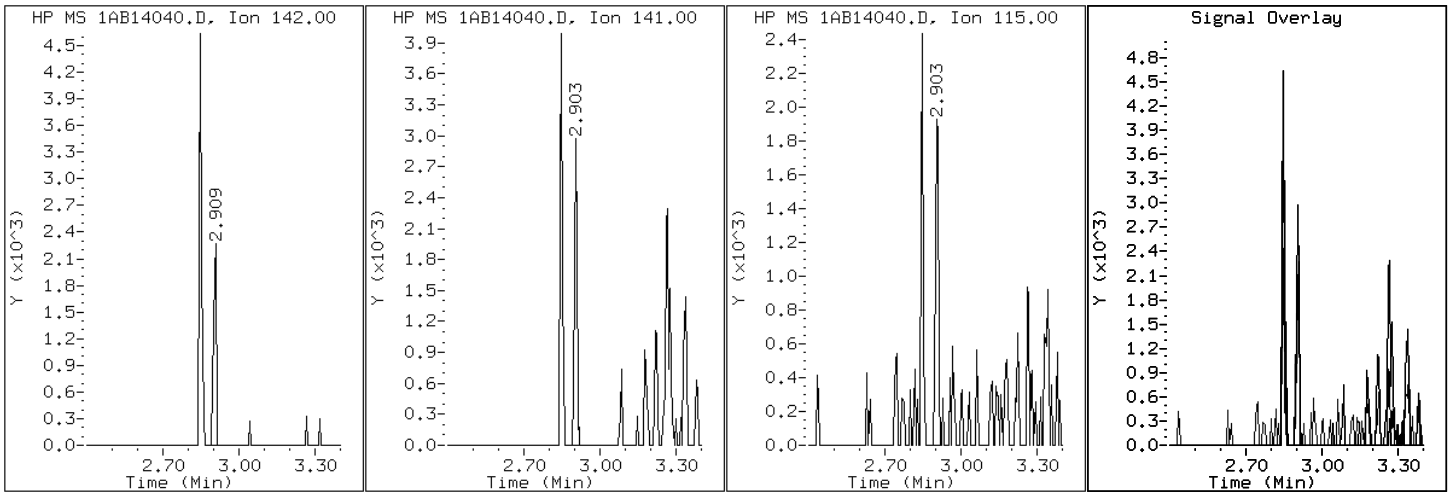
Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a Operator: SCC

4 1-Methylnaphthalene



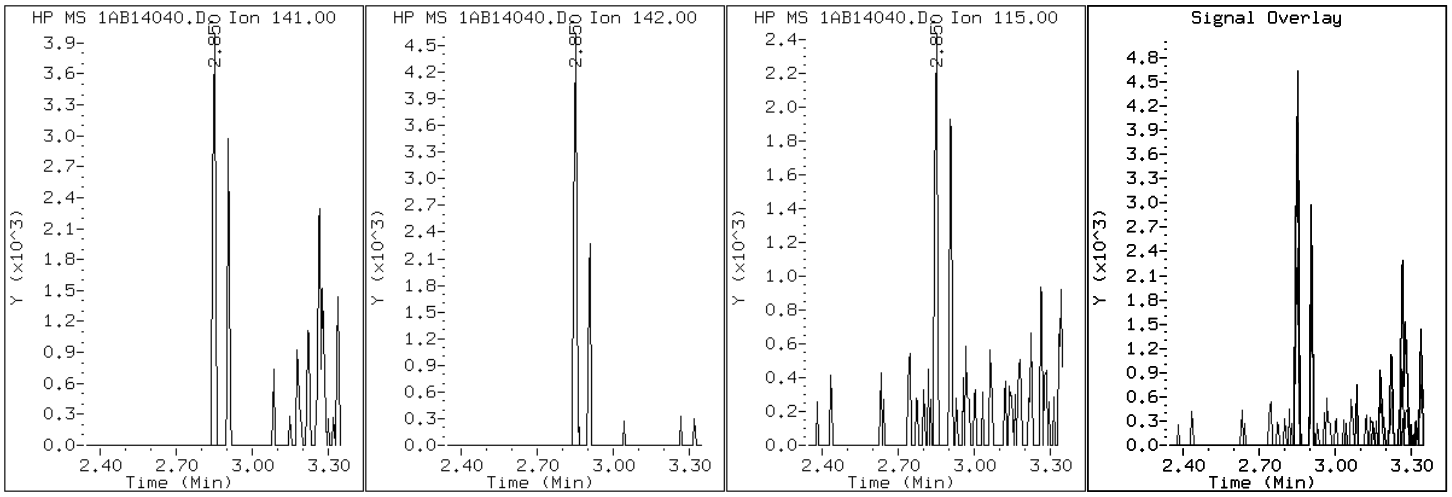
Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

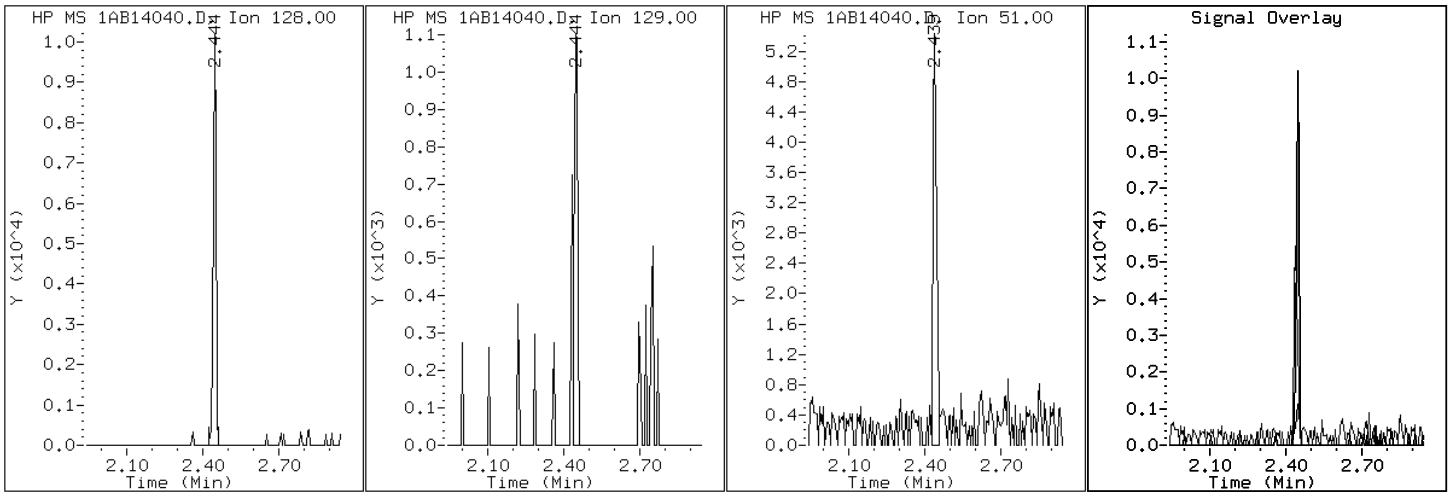
Client ID: FM0034B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a

Operator: SCC

2 Naphthalene



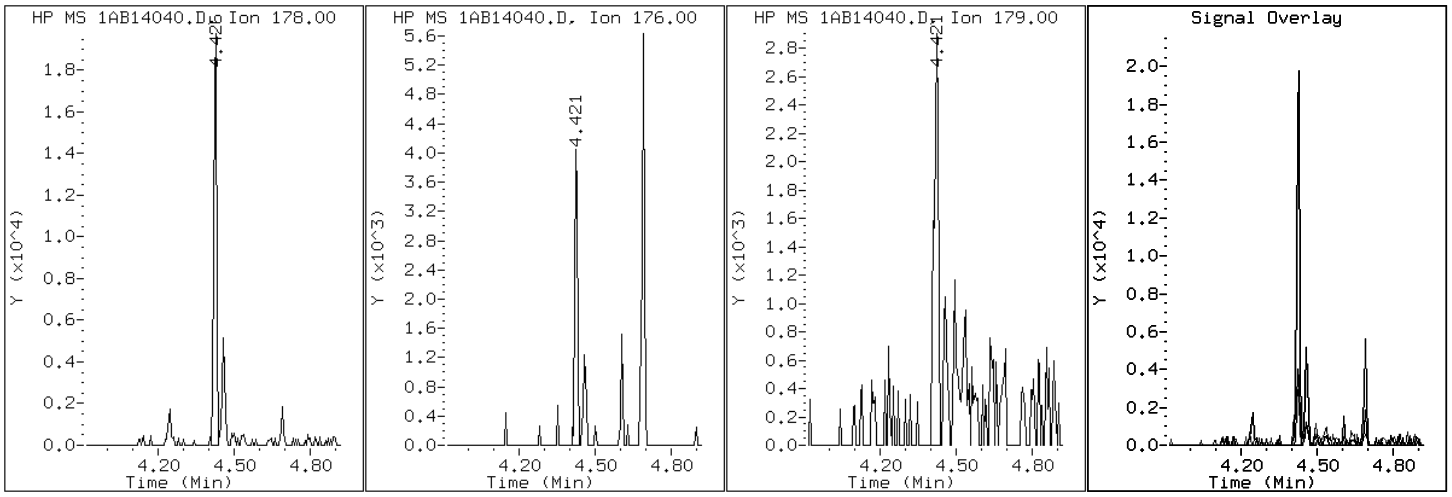
Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

Client ID: FM0034B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a Operator: SCC

11 Phenanthrene



Data File: 1AB14040.D

Date: 14-FEB-2013 19:41

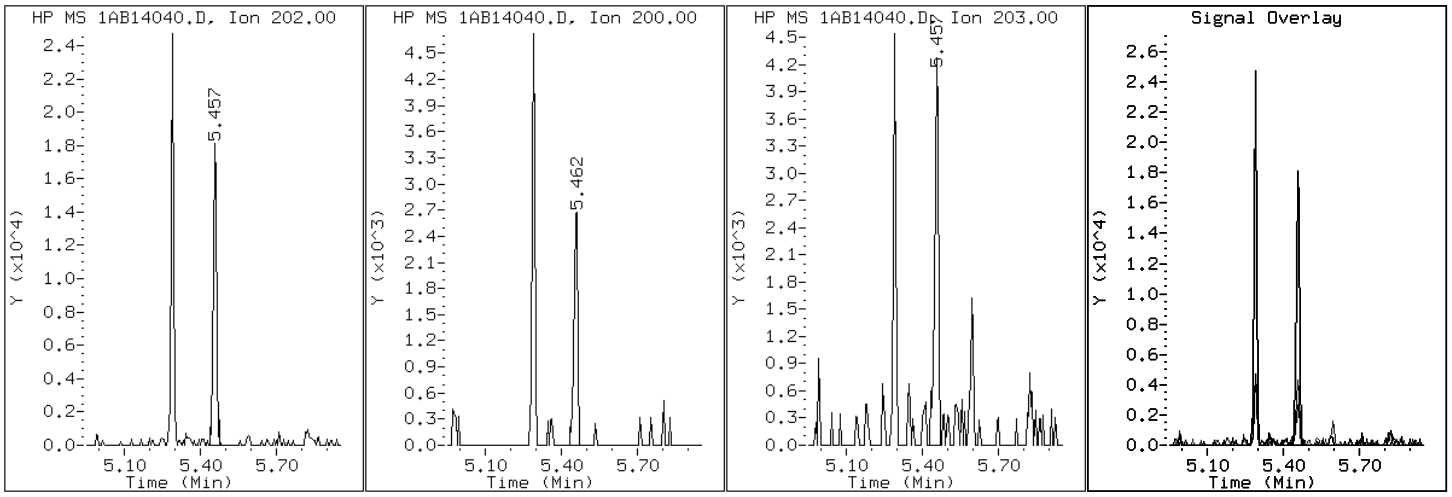
Client ID: FM0034B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-3-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14040.D
Inj. Date and Time: 14-FEB-2013 19:41
Instrument ID: BSMA5973.i
Client ID: FM0034B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

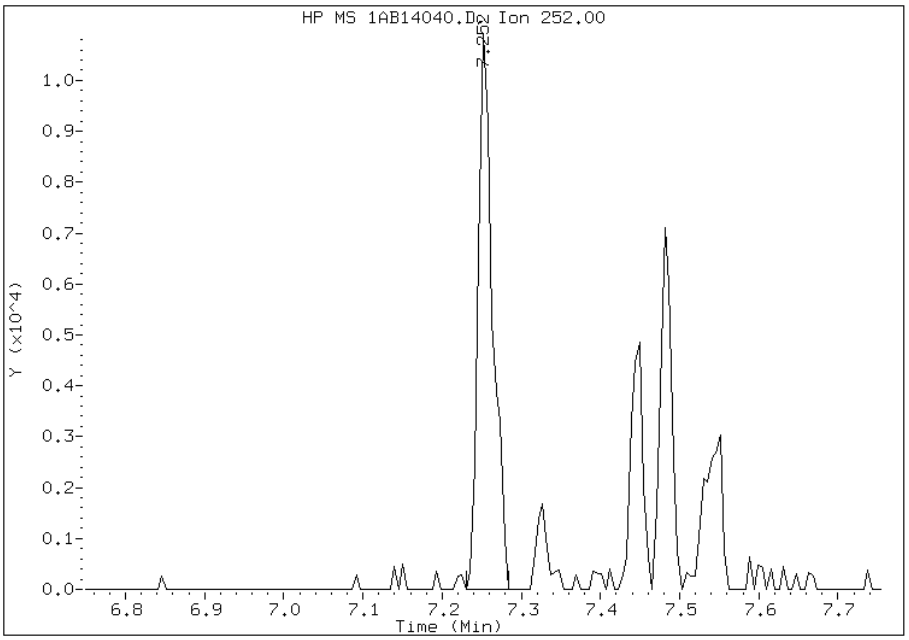
Processing Integration Results

RT: 7.25

Response: 13769

Amount: 1

Conc: 54



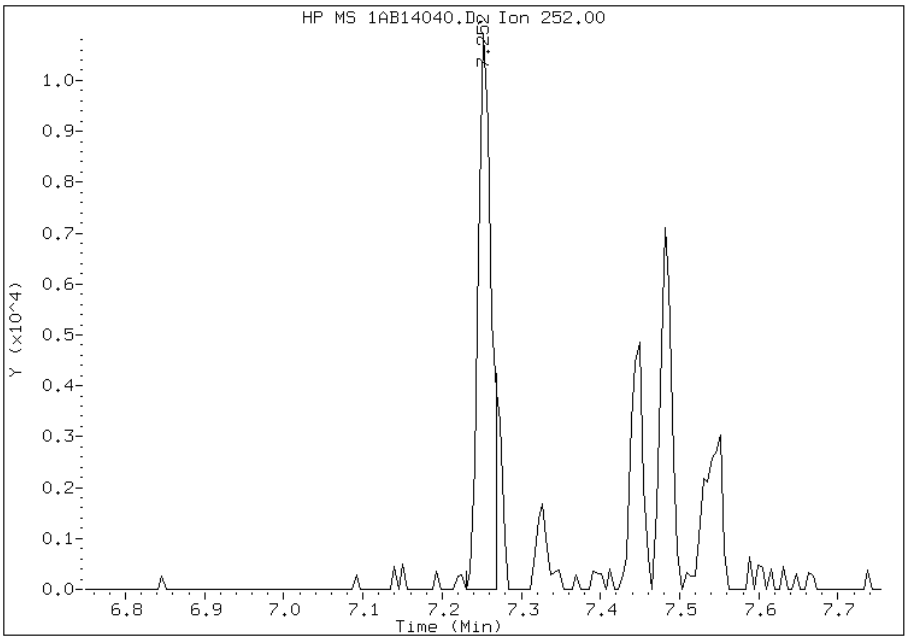
Manual Integration Results

RT: 7.25

Response: 12389

Amount: 1

Conc: 49



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:49
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14040.D
Inj. Date and Time: 14-FEB-2013 19:41
Instrument ID: BSMA5973.i
Client ID: FM0034B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

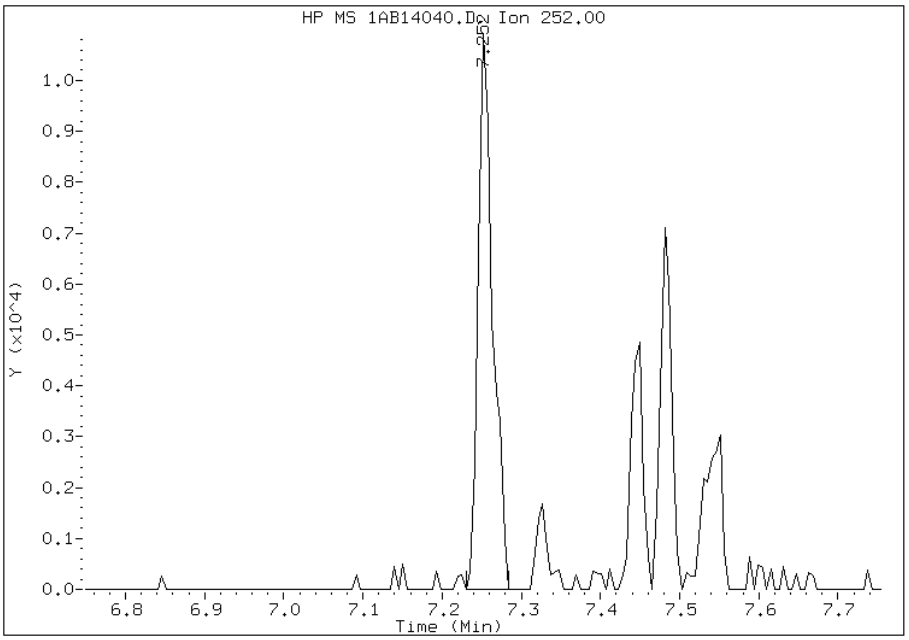
Processing Integration Results

RT: 7.25

Response: 13769

Amount: 1

Conc: 52



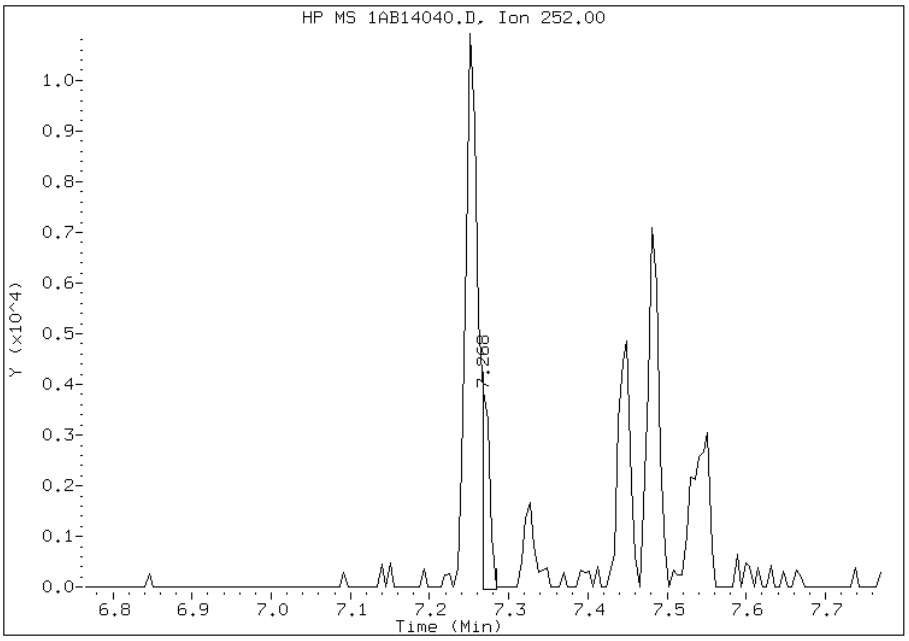
Manual Integration Results

RT: 7.27

Response: 2677

Amount: 0

Conc: 10



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14040.D
Inj. Date and Time: 14-FEB-2013 19:41
Instrument ID: BSMA5973.i
Client ID: FM0034B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

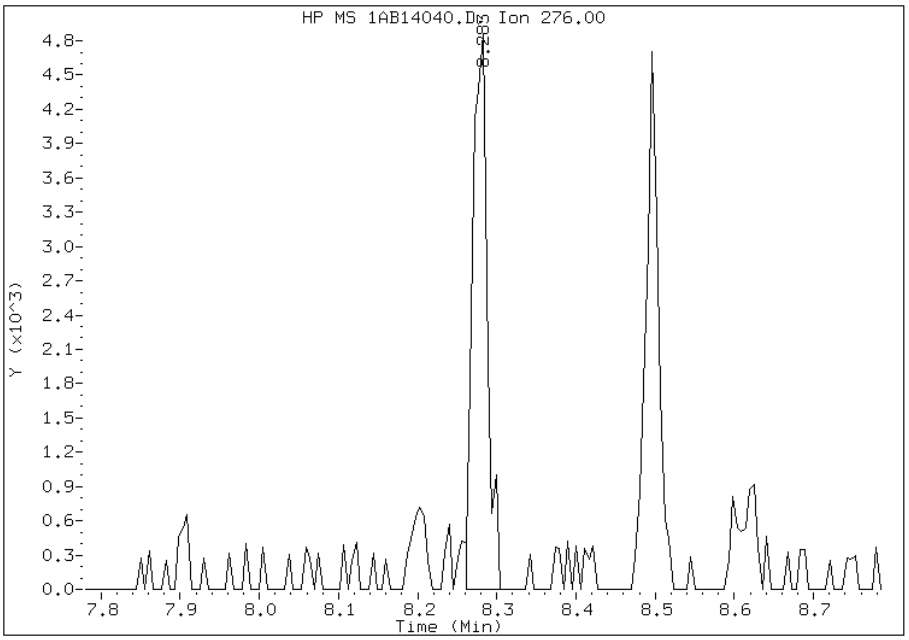
Processing Integration Results

RT: 8.28

Response: 6163

Amount: 0

Conc: 32



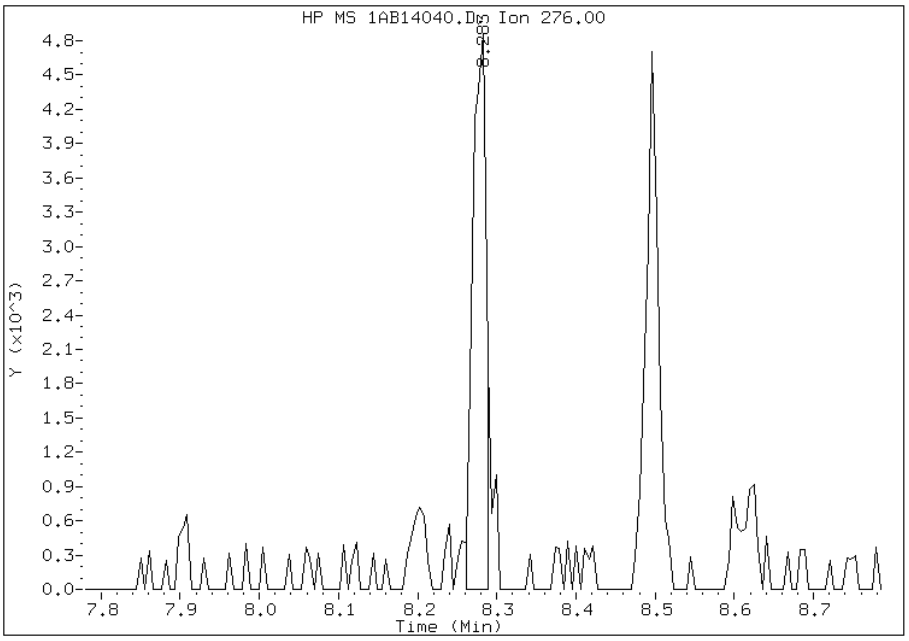
Manual Integration Results

RT: 8.28

Response: 5630

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0123B-CS | Lab Sample ID: 680-87279-4

Matrix: Solid | Lab File ID: 1AB14041.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 08:37

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.00(g) | Date Analyzed: 02/14/2013 19:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	54	U	54	6.7
120-12-7	Anthracene	7.9	J	11	5.7
56-55-3	Benzo[a]anthracene	33		11	5.3
50-32-8	Benzo[a]pyrene	19		14	7.0
205-99-2	Benzo[b]fluoranthene	29		16	8.2
191-24-2	Benzo[g,h,i]perylene	17	J	27	5.9
207-08-9	Benzo[k]fluoranthene	12		11	4.8
218-01-9	Chrysene	21		12	6.1
53-70-3	Dibenz(a,h)anthracene	6.3	J	27	5.5
206-44-0	Fluoranthene	36		27	5.4
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	14	J	27	9.6
90-12-0	1-Methylnaphthalene	12	J	54	5.9
91-57-6	2-Methylnaphthalene	13	J	54	9.6
91-20-3	Naphthalene	16	J	54	5.9
85-01-8	Phenanthrene	23		11	5.3
129-00-0	Pyrene	27		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14041.D
Lab Smp Id: 680-87279-A-4-A Client Smp ID: FM0123B-CS
Inj Date : 14-FEB-2013 19:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-4-a
Misc Info : 680-87279-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	25.714	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.431	2.430	(1.000)	905096	40.0000	
* 6 Acenaphthene-d10	164	3.462	3.461	(1.000)	544225	40.0000	
* 10 Phenanthrene-d10	188	4.408	4.402	(1.000)	780846	40.0000	
$ 14 o-Terphenyl	230	4.686	4.685	(1.063)	78289	6.90008	619.2375
* 18 Chrysene-d12	240	6.438	6.426	(1.000)	677799	40.0000	
* 23 Perylene-d12	264	7.538	7.527	(1.000)	647536	40.0000	
2 Naphthalene	128	2.442	2.441	(1.004)	3922	0.17853	16.0215(Q)
3 2-Methylnaphthalene	141	2.848	2.847	(1.171)	1673	0.14215	12.7571
4 1-Methylnaphthalene	142	2.907	2.900	(1.196)	1721	0.12918	11.5929
11 Phenanthrene	178	4.424	4.418	(1.004)	5413	0.25389	22.7848
12 Anthracene	178	4.456	4.455	(1.011)	1924	0.08851	7.9432
15 Fluoranthene	202	5.289	5.283	(1.200)	8413	0.39801	35.7184
16 Pyrene	202	5.460	5.454	(0.848)	7452	0.30443	27.3204
17 Benzo(a)anthracene	228	6.427	6.416	(0.998)	7537	0.37242	33.4218

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.449	6.448	(1.002)	4723	0.23942	21.4866
20 Benzo(b)fluoranthene	252	7.250	7.244	(0.962)	5853	0.32386	29.0639(M)
21 Benzo(k)fluoranthene	252	7.261	7.265	(0.963)	2575	0.13627	12.2296(QM)
22 Benzo(a)pyrene	252	7.485	7.479	(0.993)	3726	0.21710	19.4837
24 Indeno(1,2,3-cd)pyrene	276	8.276	8.275	(1.098)	2095	0.15459	13.8736(M)
25 Dibenzo(a,h)anthracene	278	8.286	8.291	(1.099)	948	0.06997	6.2797(MH)
26 Benzo(g,h,i)perylene	276	8.484	8.494	(1.125)	2678	0.19075	17.1181

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14041.D

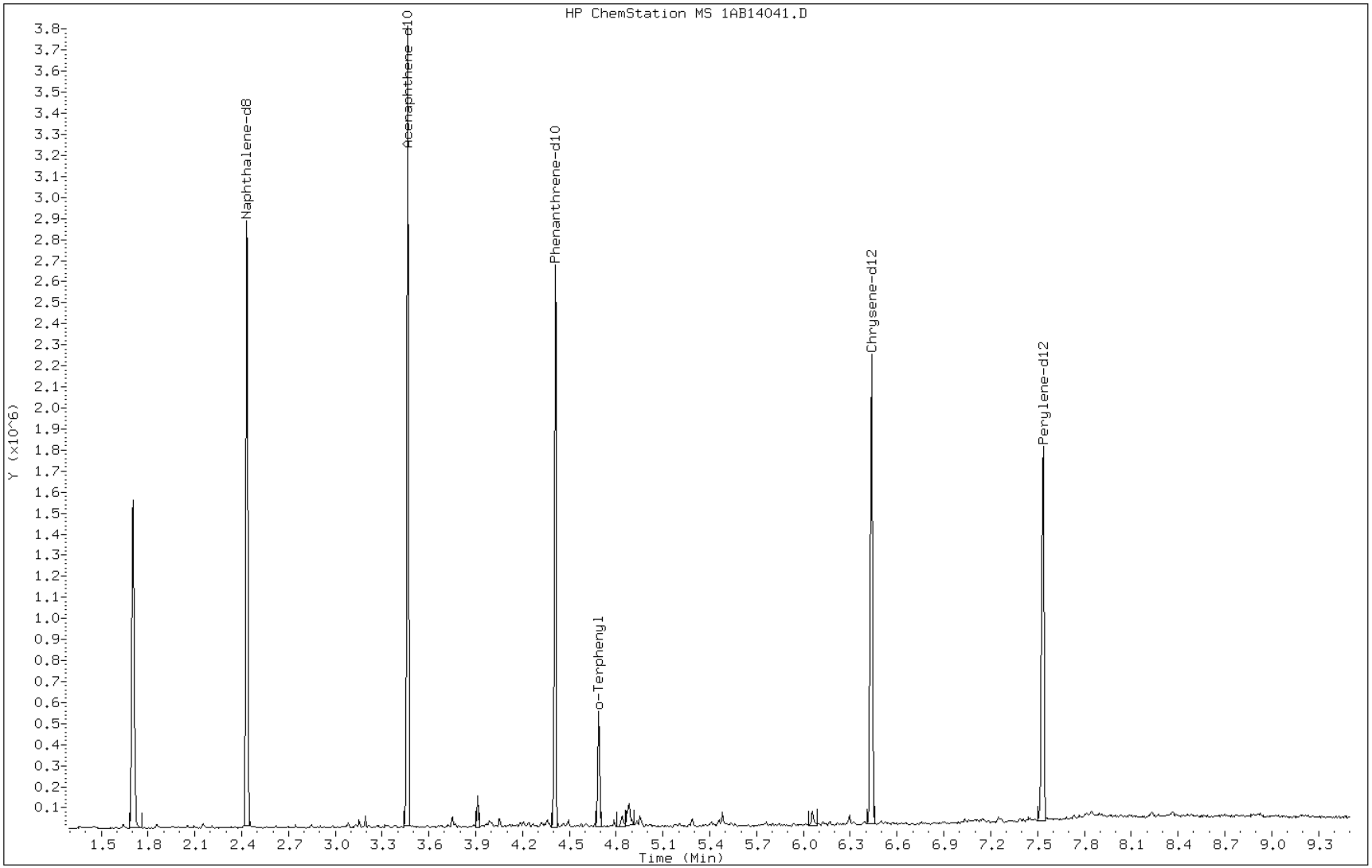
Date: 14-FEB-2013 19:56

Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

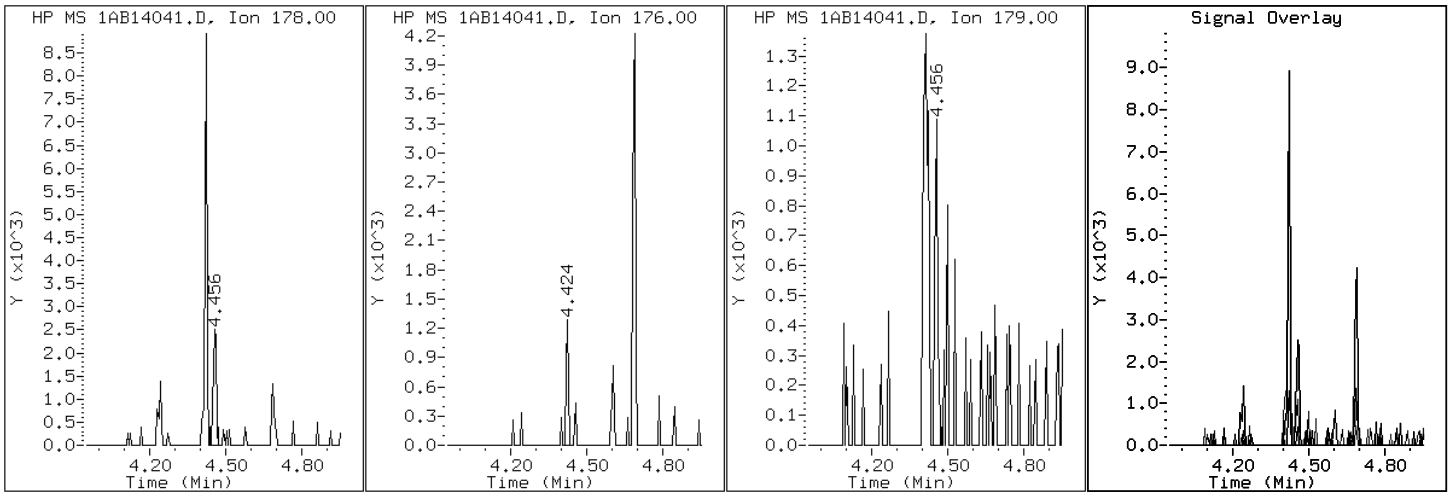
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

12 Anthracene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

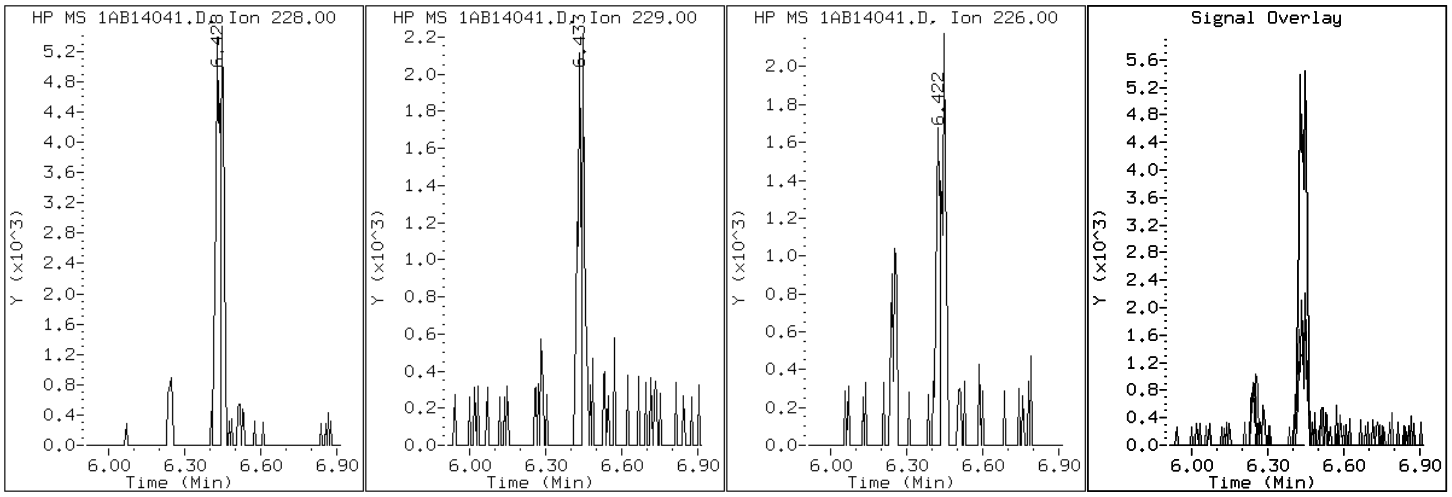
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

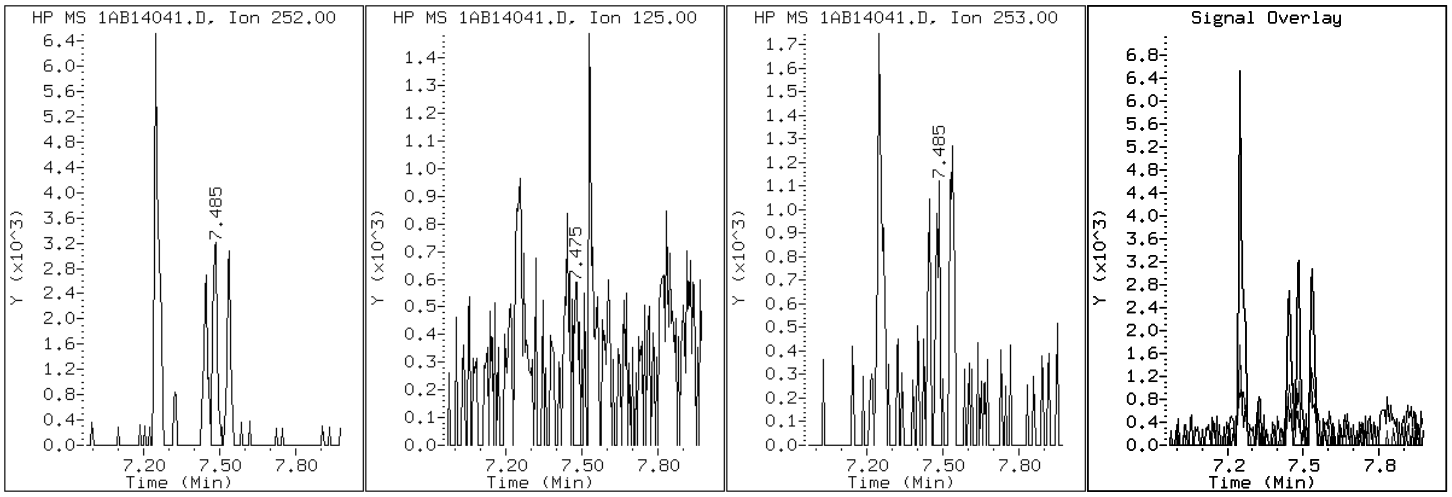
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

22 Benzo(a)pyrene



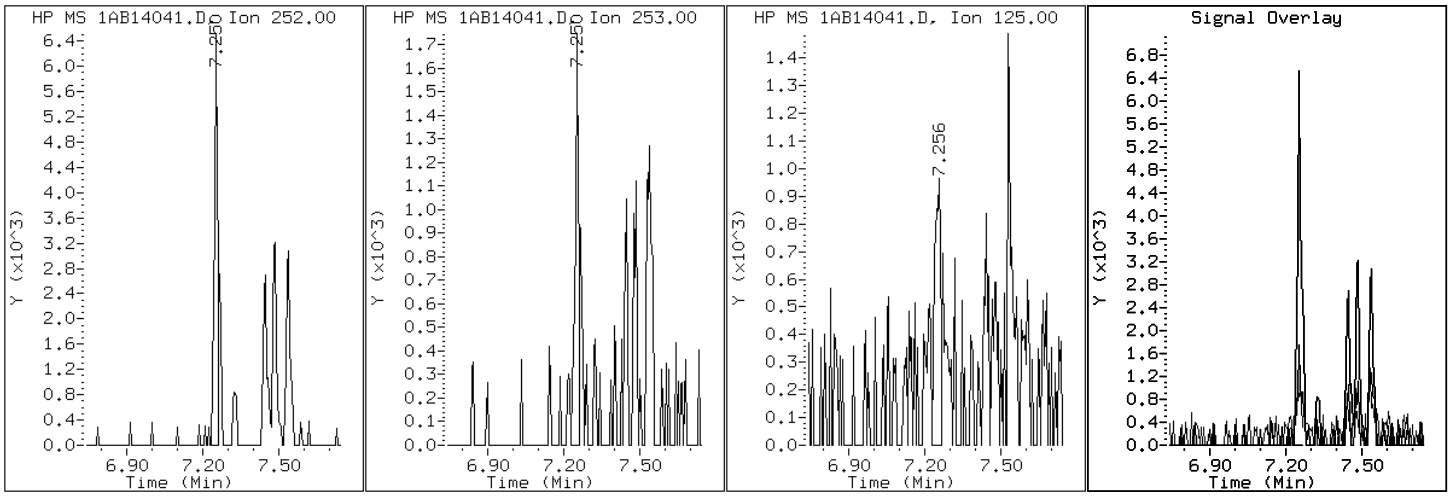
Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

Client ID: FM0123B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

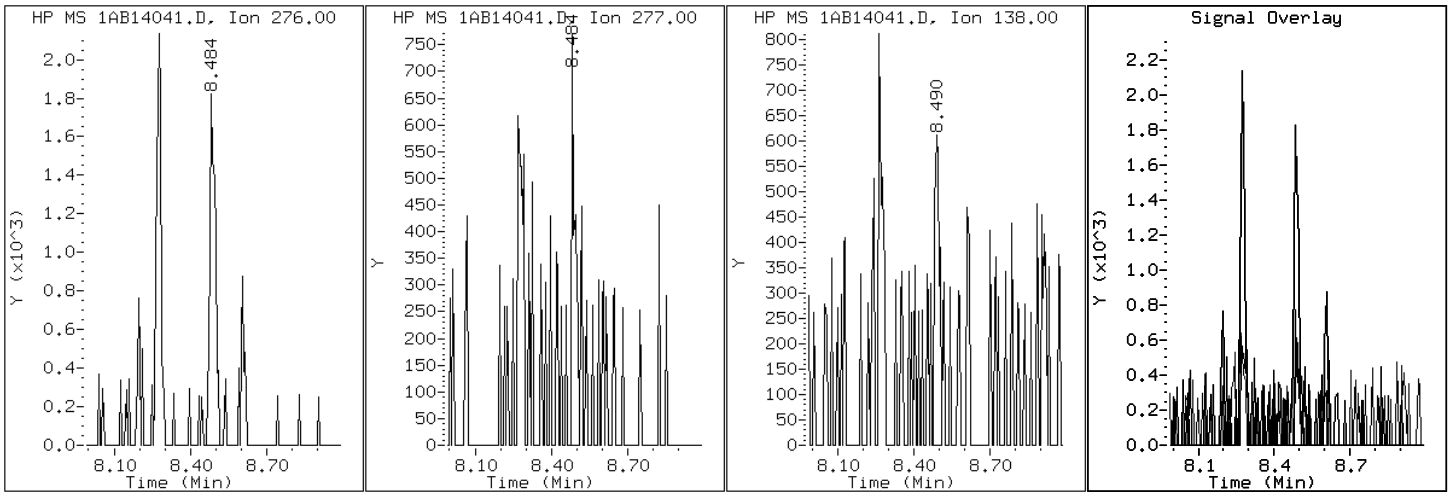
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

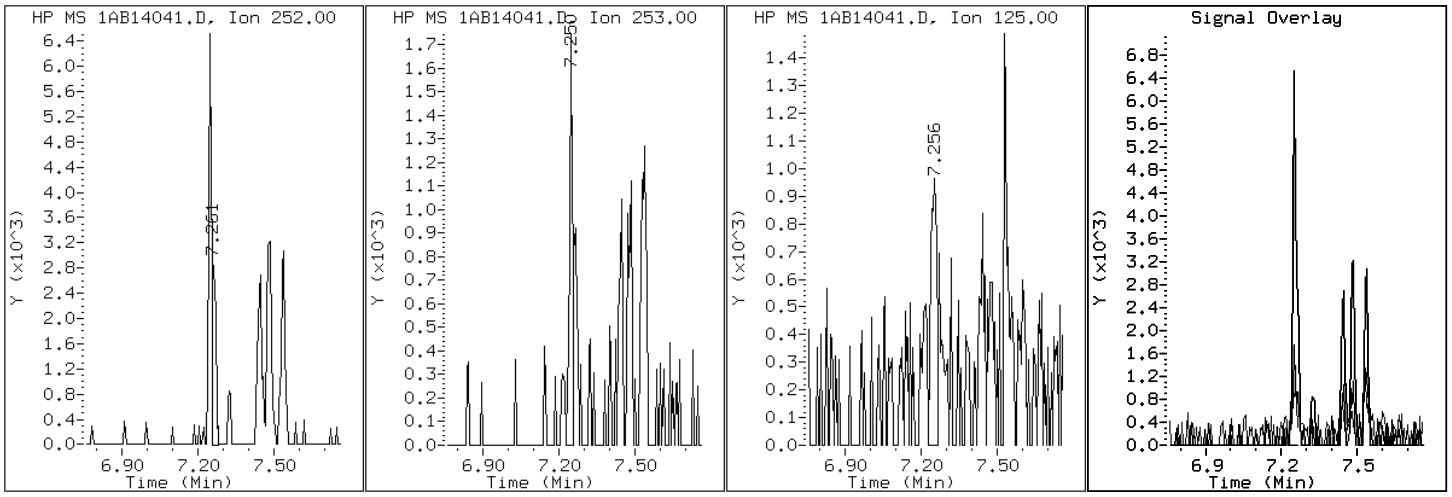
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

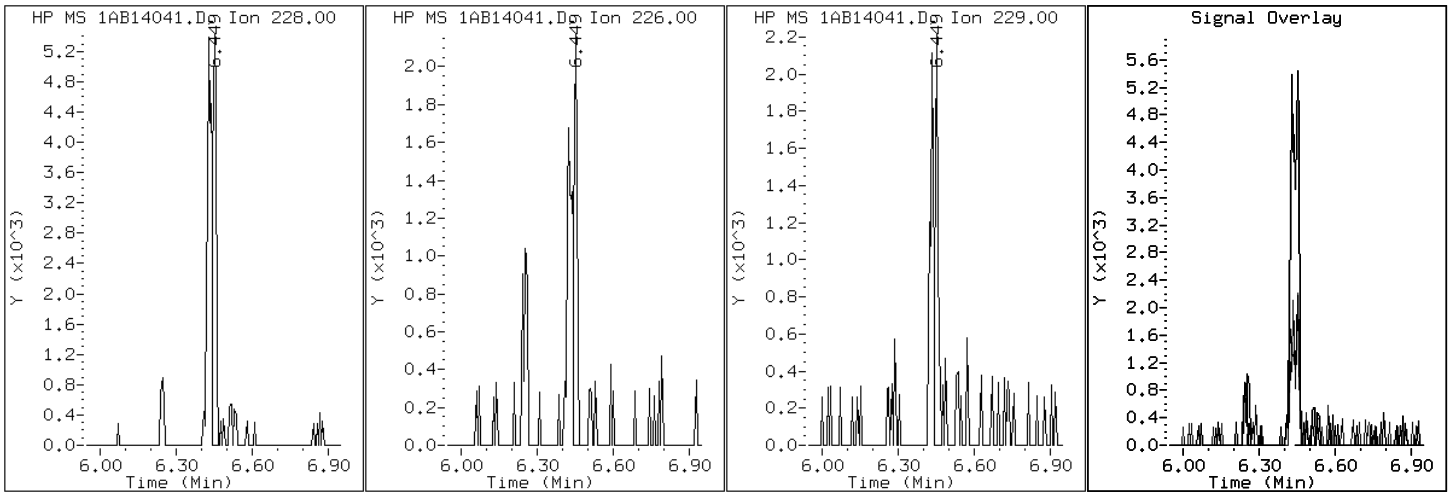
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

19 Chrysene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

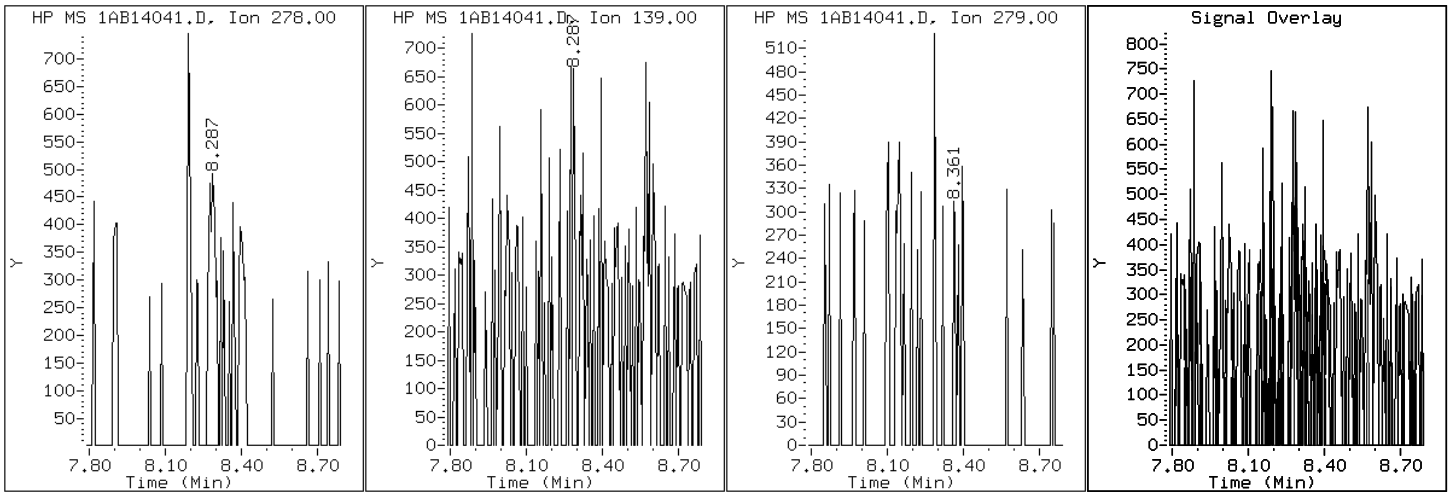
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

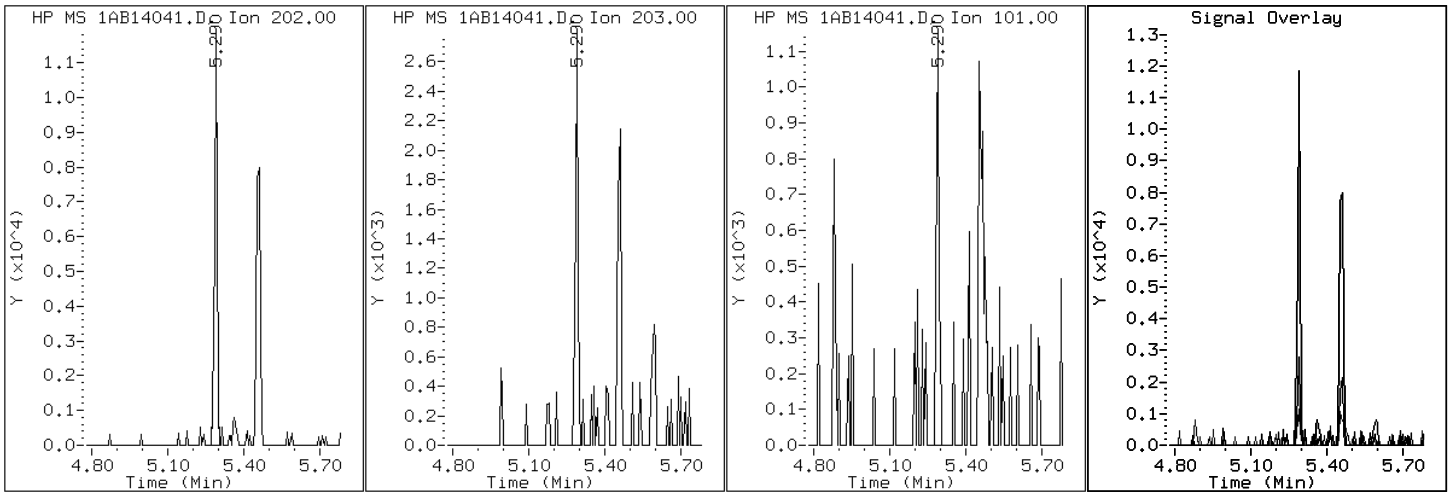
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

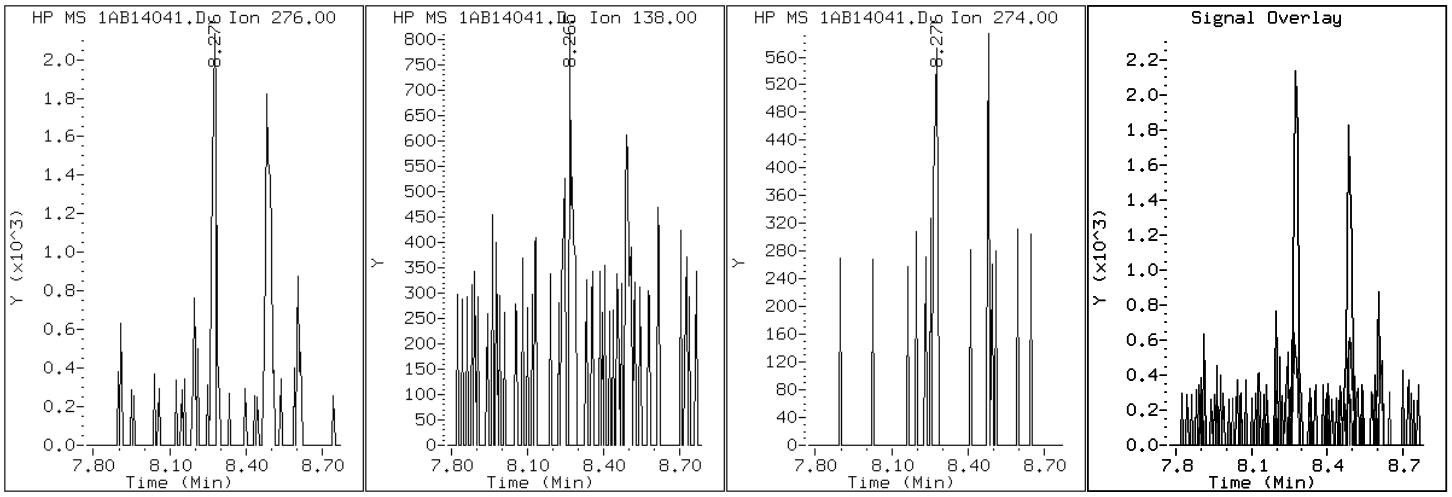
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



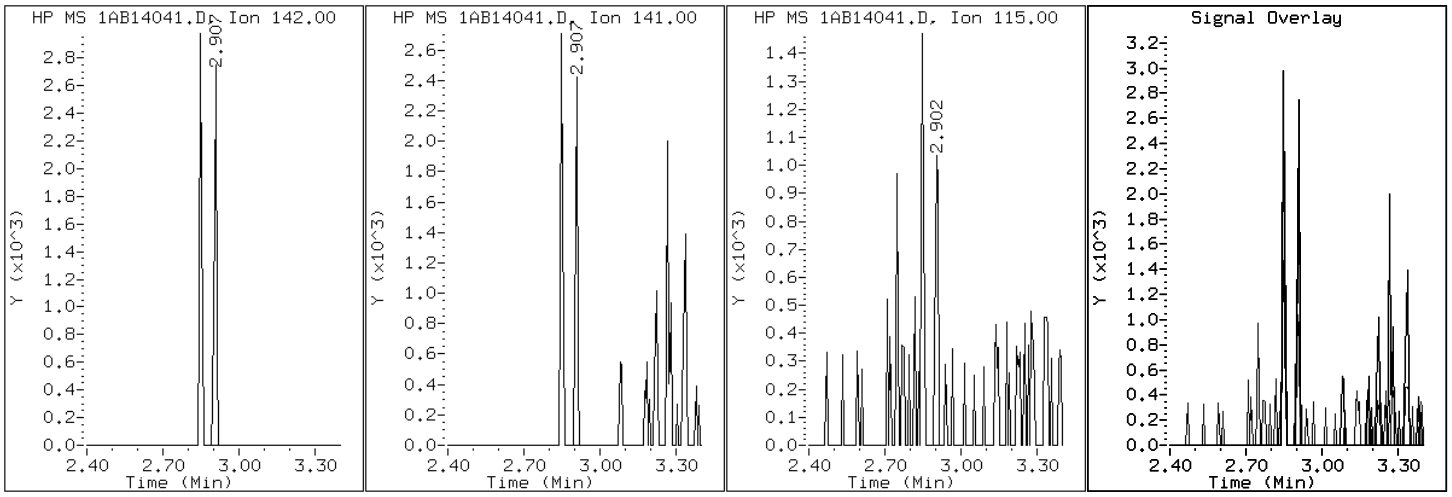
Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

Client ID: FM0123B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a Operator: SCC

4 1-Methylnaphthalene



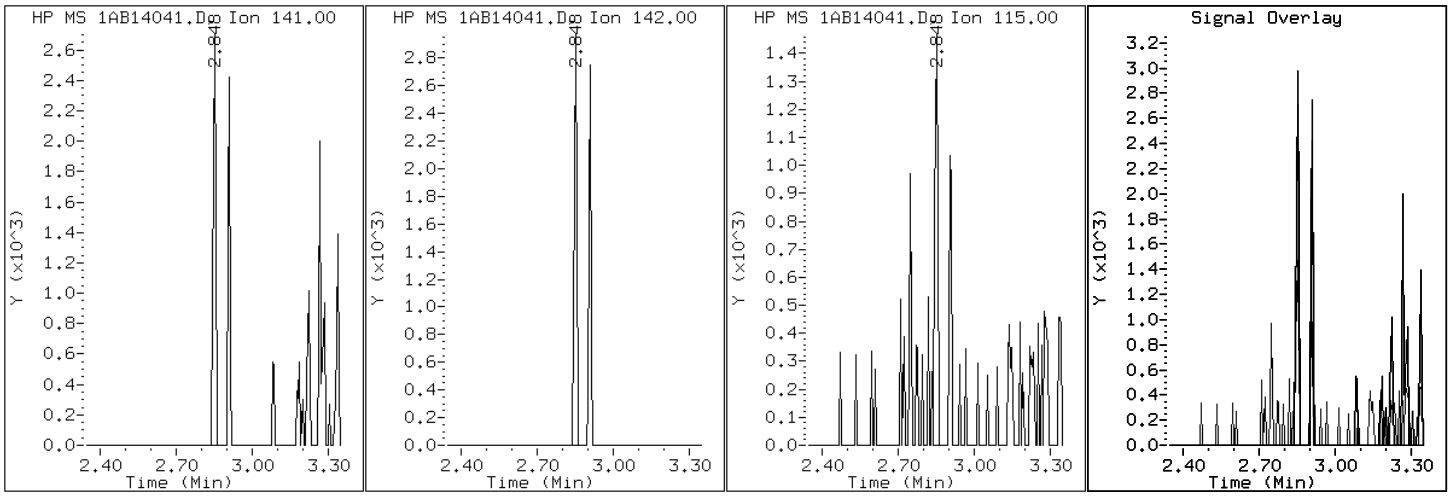
Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

Client ID: FM0123B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

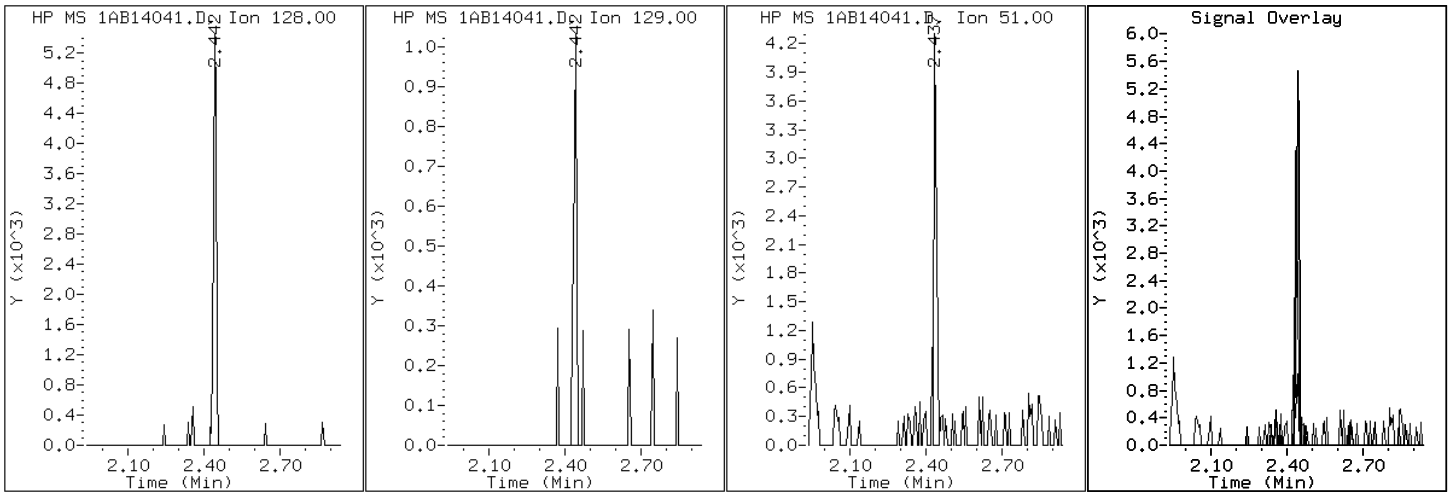
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

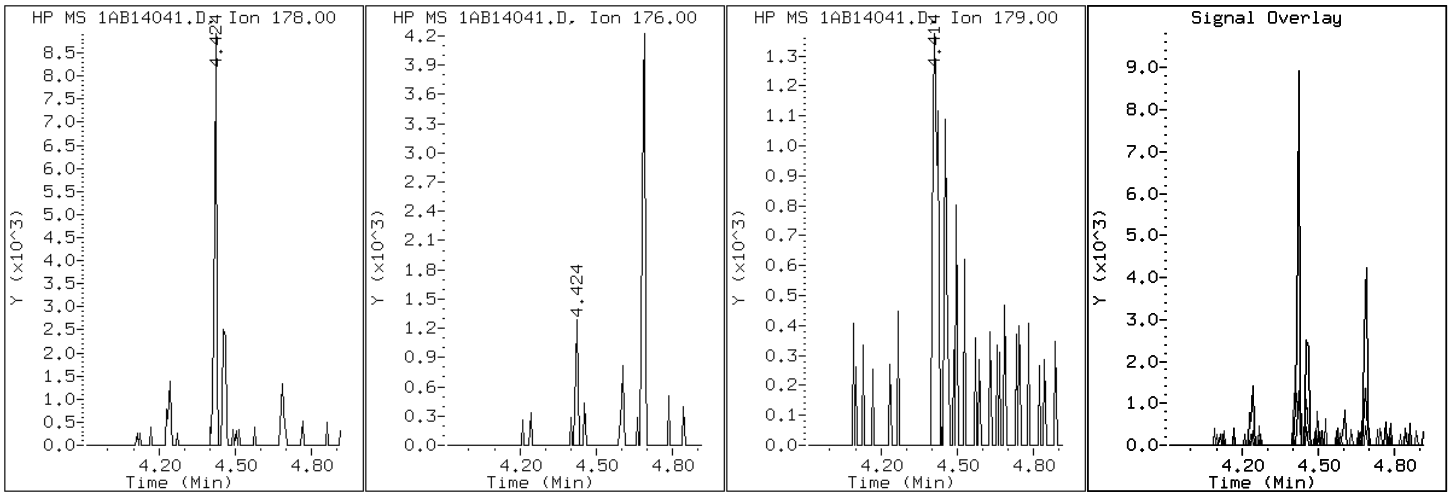
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1AB14041.D

Date: 14-FEB-2013 19:56

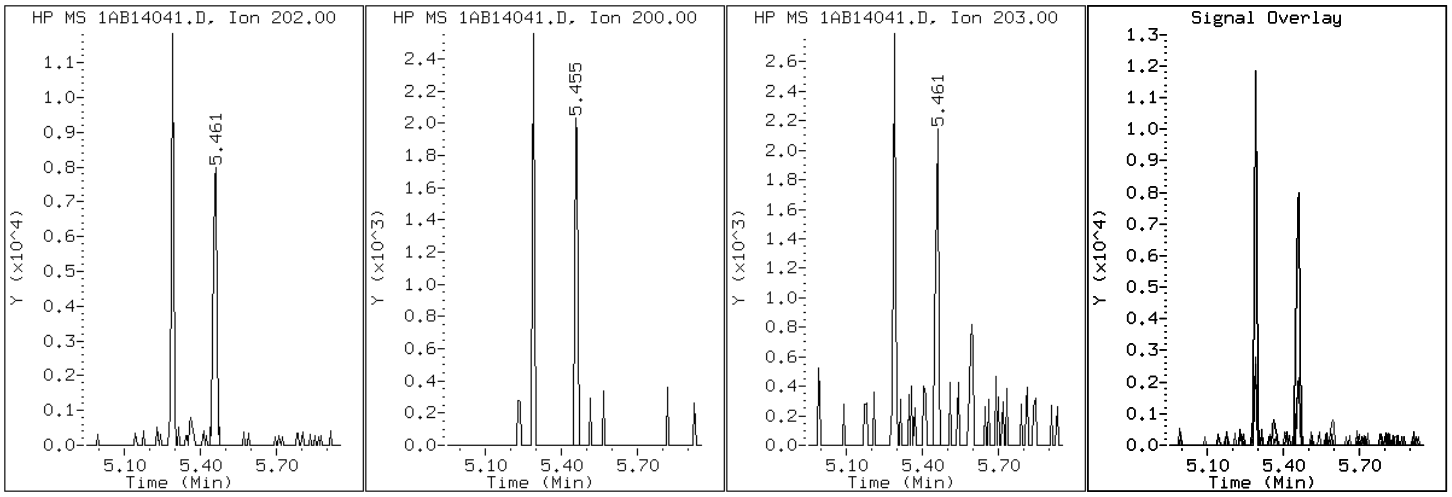
Client ID: FM0123B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-4-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14041.D
Inj. Date and Time: 14-FEB-2013 19:56
Instrument ID: BSMA5973.i
Client ID: FM0123B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

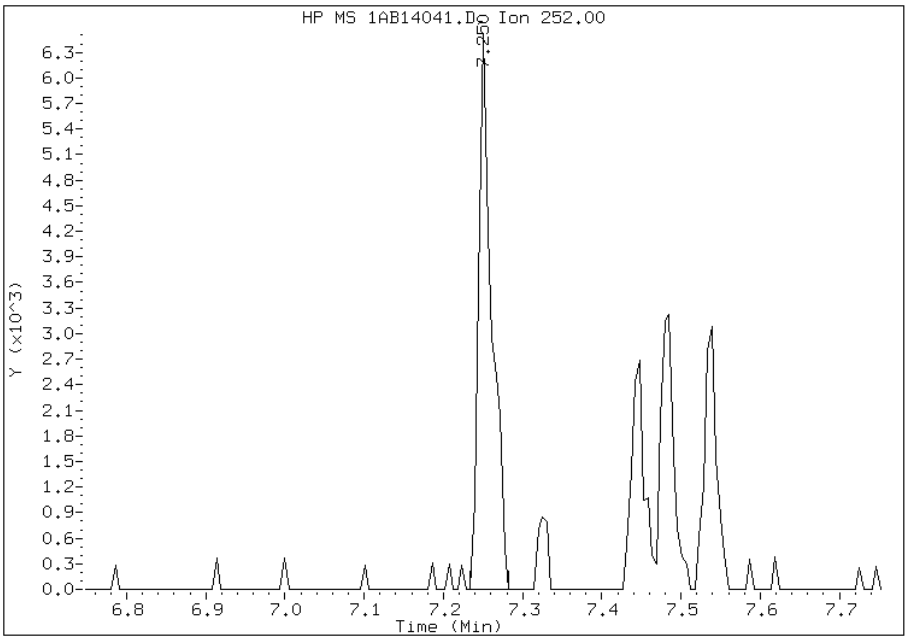
Processing Integration Results

RT: 7.25

Response: 7465

Amount: 0

Conc: 37



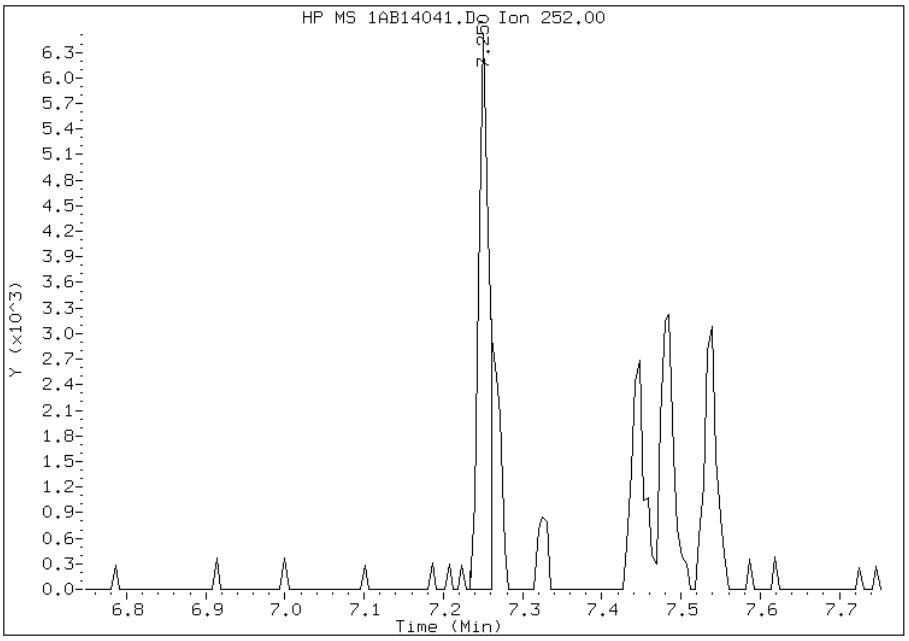
Manual Integration Results

RT: 7.25

Response: 5853

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14041.D
Inj. Date and Time: 14-FEB-2013 19:56
Instrument ID: BSMA5973.i
Client ID: FM0123B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

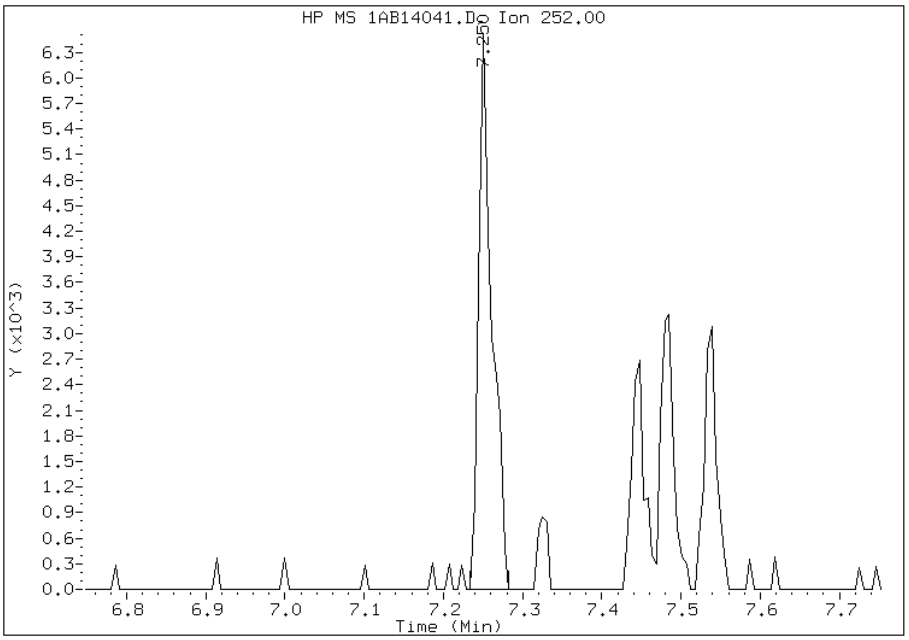
Processing Integration Results

RT: 7.25

Response: 7465

Amount: 0

Conc: 35



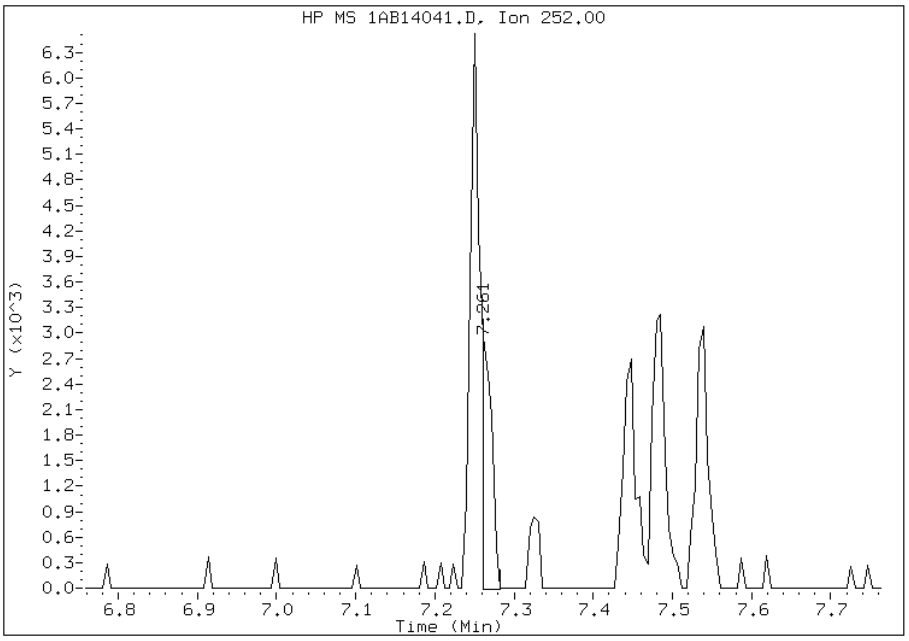
Manual Integration Results

RT: 7.26

Response: 2575

Amount: 0

Conc: 12



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14041.D
Inj. Date and Time: 14-FEB-2013 19:56
Instrument ID: BSMA5973.i
Client ID: FM0123B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/15/2013

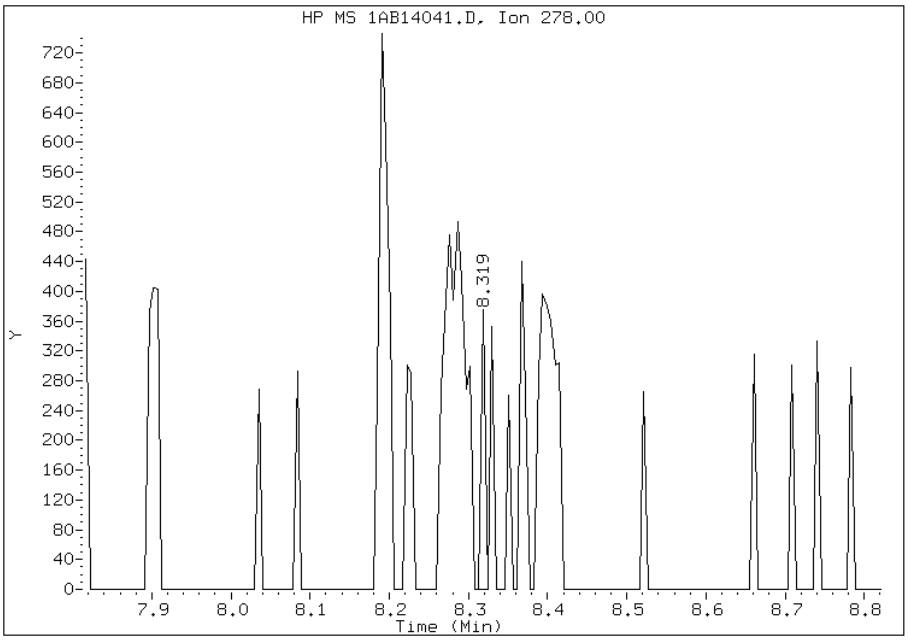
Processing Integration Results

RT: 8.32

Response: 120

Amount: 0

Conc: 1



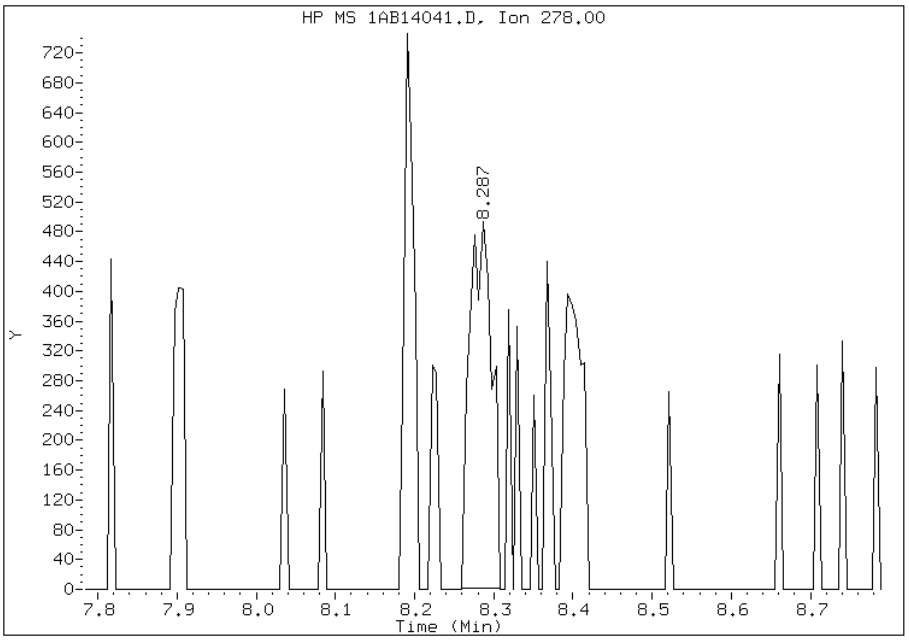
Manual Integration Results

RT: 8.29

Response: 948

Amount: 0

Conc: 6



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14041.D
Inj. Date and Time: 14-FEB-2013 19:56
Instrument ID: BSMA5973.i
Client ID: FM0123B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

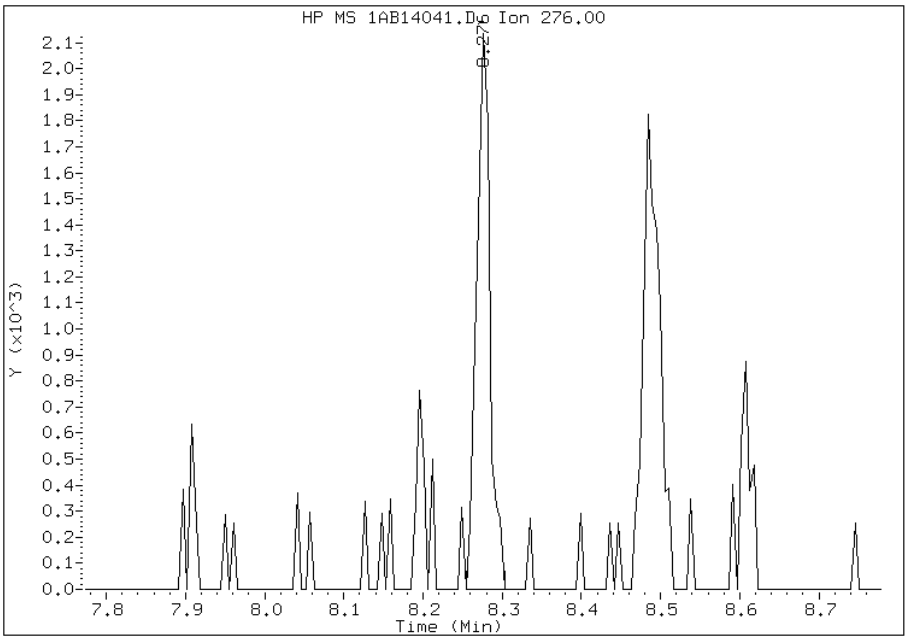
Processing Integration Results

RT: 8.28

Response: 2448

Amount: 0

Conc: 16



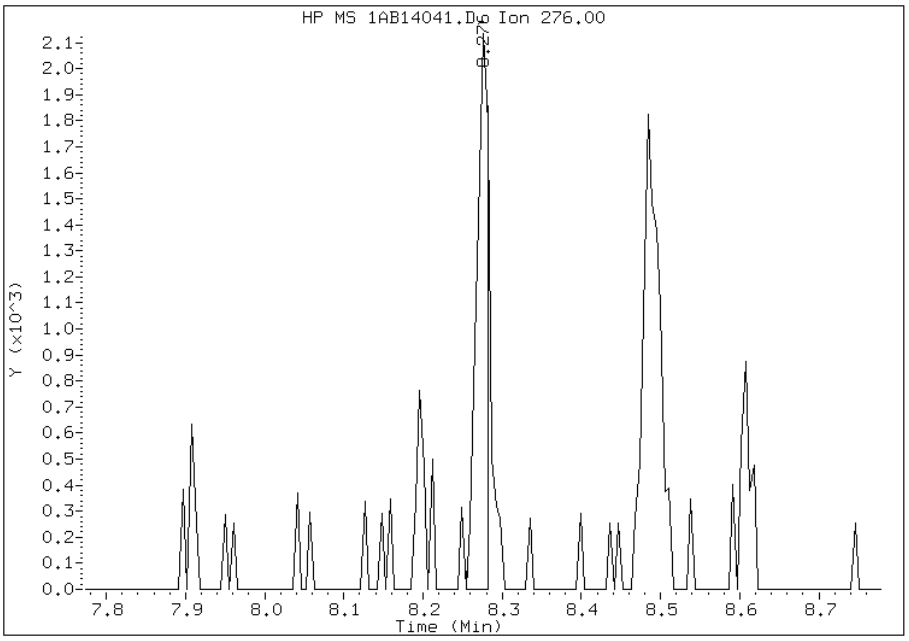
Manual Integration Results

RT: 8.28

Response: 2095

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0138A-CS | Lab Sample ID: 680-87279-5

Matrix: Solid | Lab File ID: 1AB14042.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:40

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.06(g) | Date Analyzed: 02/14/2013 20:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	46	U	46	5.8
120-12-7	Anthracene	14		9.8	4.9
56-55-3	Benzo[a]anthracene	56		9.3	4.5
50-32-8	Benzo[a]pyrene	32		12	6.0
205-99-2	Benzo[b]fluoranthene	59		14	7.1
191-24-2	Benzo[g,h,i]perylene	41		23	5.1
207-08-9	Benzo[k]fluoranthene	18		9.3	4.2
218-01-9	Chrysene	54		10	5.2
53-70-3	Dibenz(a,h)anthracene	16	J	23	4.8
206-44-0	Fluoranthene	68		23	4.6
86-73-7	Fluorene	6.0	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	29		23	8.3
90-12-0	1-Methylnaphthalene	24	J	46	5.1
91-57-6	2-Methylnaphthalene	35	J	46	8.3
91-20-3	Naphthalene	33	J	46	5.1
85-01-8	Phenanthrene	63		9.3	4.5
129-00-0	Pyrene	45		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14042.D
Lab Smp Id: 680-87279-A-5-A Client Smp ID: FM0138A-CS
Inj Date : 14-FEB-2013 20:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-5-a
Misc Info : 680-87279-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	14.286	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.431	2.430	(1.000)	892018	40.0000	
* 6 Acenaphthene-d10	164	3.462	3.461	(1.000)	523123	40.0000	
* 10 Phenanthrene-d10	188	4.408	4.402	(1.000)	709921	40.0000	
$ 14 o-Terphenyl	230	4.691	4.685	(1.064)	83976	8.14074	630.6456
* 18 Chrysene-d12	240	6.438	6.426	(1.000)	560328	40.0000	
* 23 Perylene-d12	264	7.538	7.527	(1.000)	633434	40.0000	
2 Naphthalene	128	2.442	2.441	(1.004)	9251	0.42727	33.0997(Q)
3 2-Methylnaphthalene	141	2.848	2.847	(1.171)	5208	0.44900	34.7831
4 1-Methylnaphthalene	142	2.901	2.900	(1.193)	4059	0.30914	23.9481
9 Fluorene	166	3.793	3.787	(1.096)	1211	0.07703	5.9677(Q)
11 Phenanthrene	178	4.424	4.418	(1.004)	15808	0.81552	63.1768
12 Anthracene	178	4.456	4.455	(1.011)	3465	0.17533	13.5822
13 Carbazole	167	4.616	4.610	(1.047)	2281	0.13465	10.4307
15 Fluoranthene	202	5.289	5.283	(1.200)	16856	0.87710	67.9469

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.460	5.454	(0.848)	11866	0.58637	45.4251
17 Benzo(a)anthracene	228	6.432	6.416	(0.999)	12071	0.72149	55.8923
19 Chrysene	228	6.454	6.448	(1.002)	11313	0.69372	53.7410
20 Benzo(b)fluoranthene	252	7.255	7.244	(0.962)	13578	0.76802	59.4966(M)
21 Benzo(k)fluoranthene	252	7.266	7.265	(0.964)	4362	0.23598	18.2812(QM)
22 Benzo(a)pyrene	252	7.485	7.479	(0.993)	7005	0.41725	32.3234
24 Indeno(1,2,3-cd)pyrene	276	8.281	8.275	(1.098)	4903	0.36985	28.6515(M)
25 Dibenzo(a,h)anthracene	278	8.286	8.291	(1.099)	2678	0.20207	15.6539
26 Benzo(g,h,i)perylene	276	8.500	8.494	(1.128)	7340	0.53444	41.4022

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14042.D

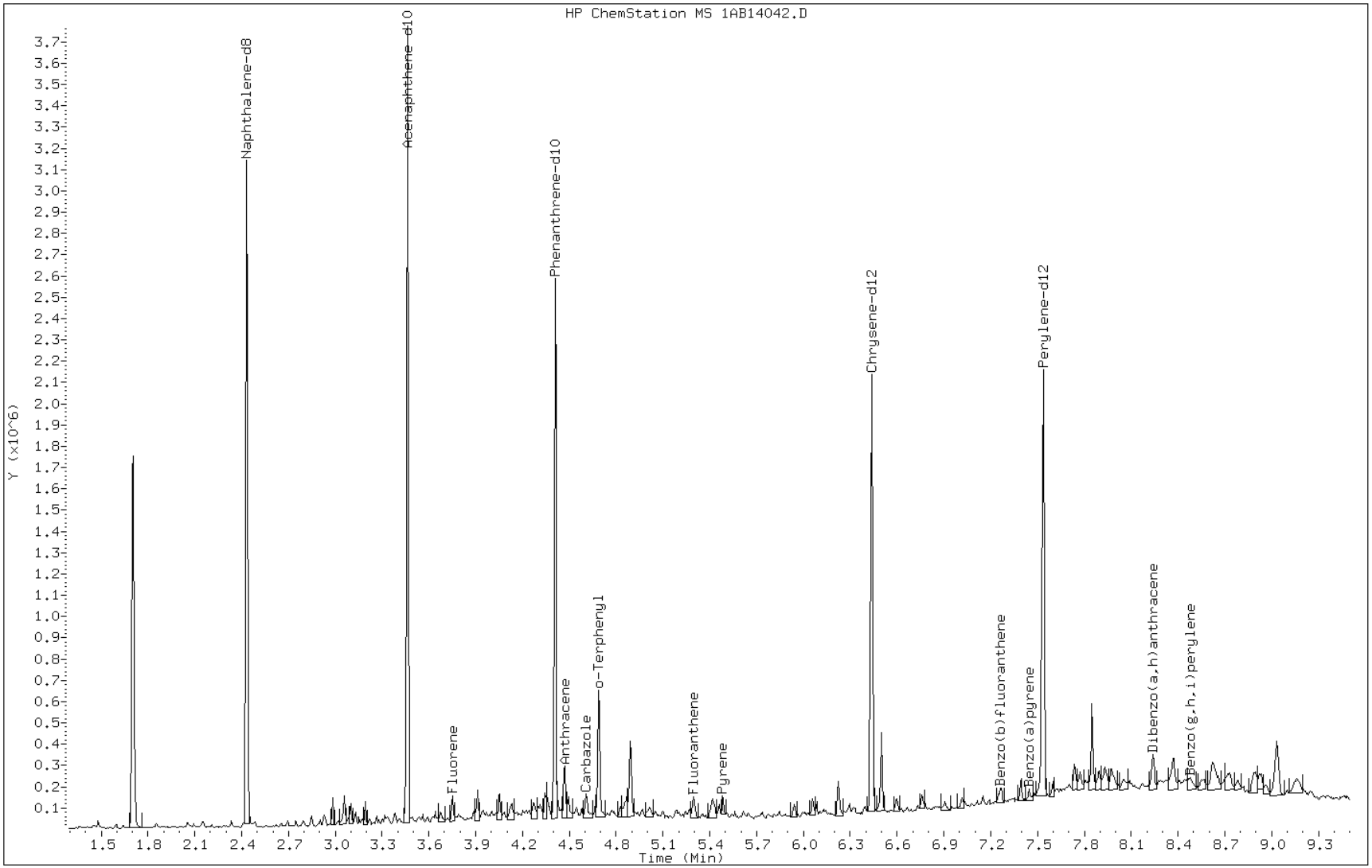
Date: 14-FEB-2013 20:11

Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

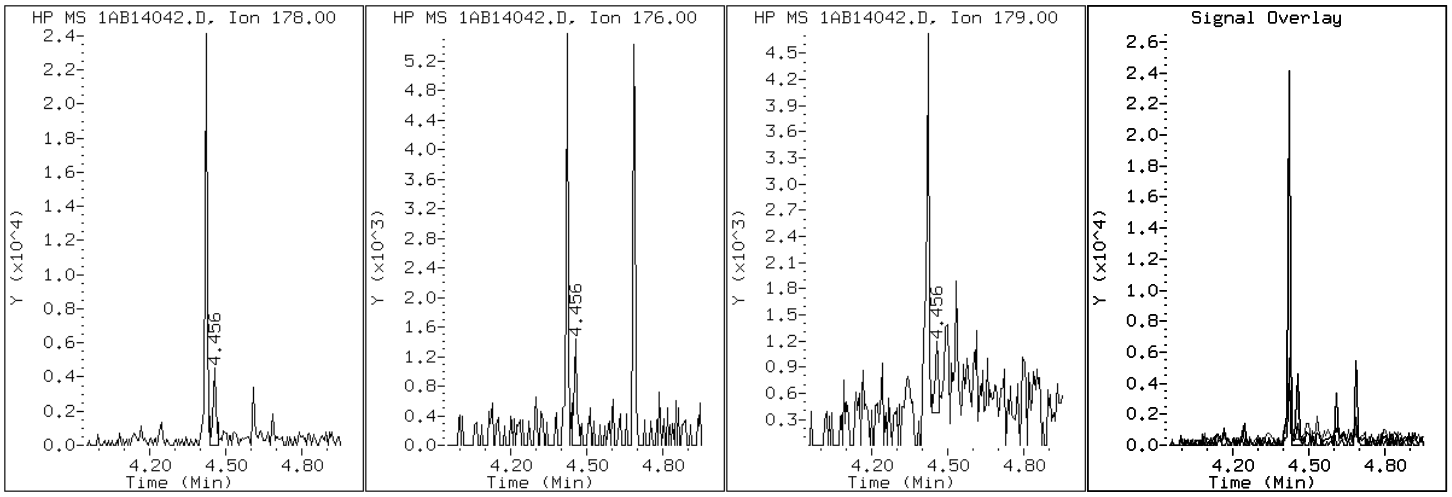
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

12 Anthracene



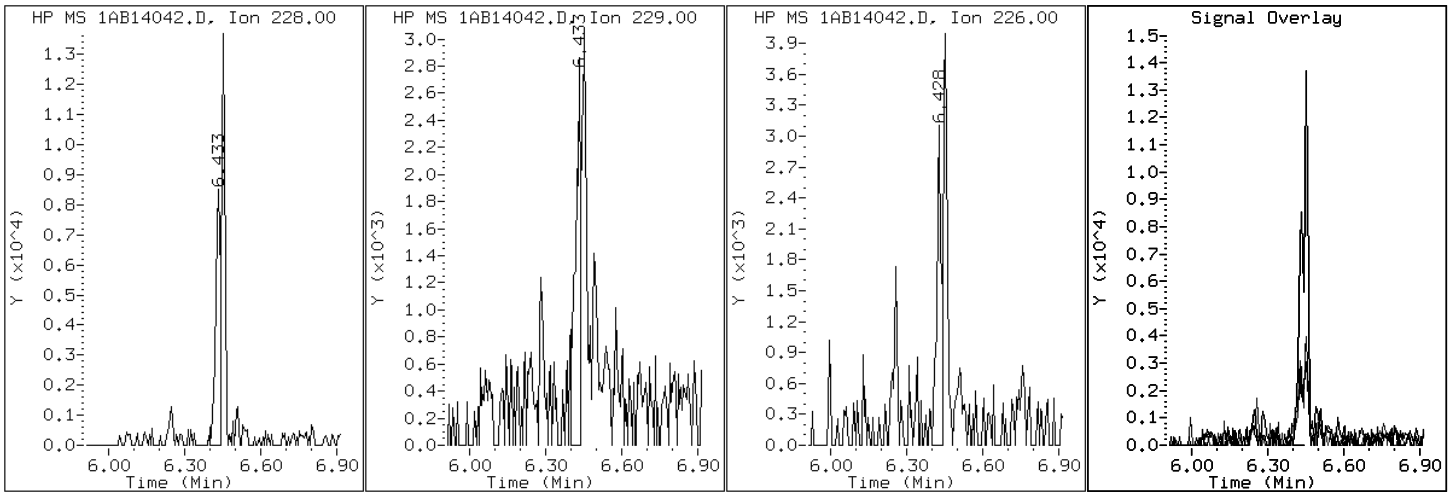
Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

Client ID: FM0138A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a Operator: SCC

17 Benzo(a)anthracene



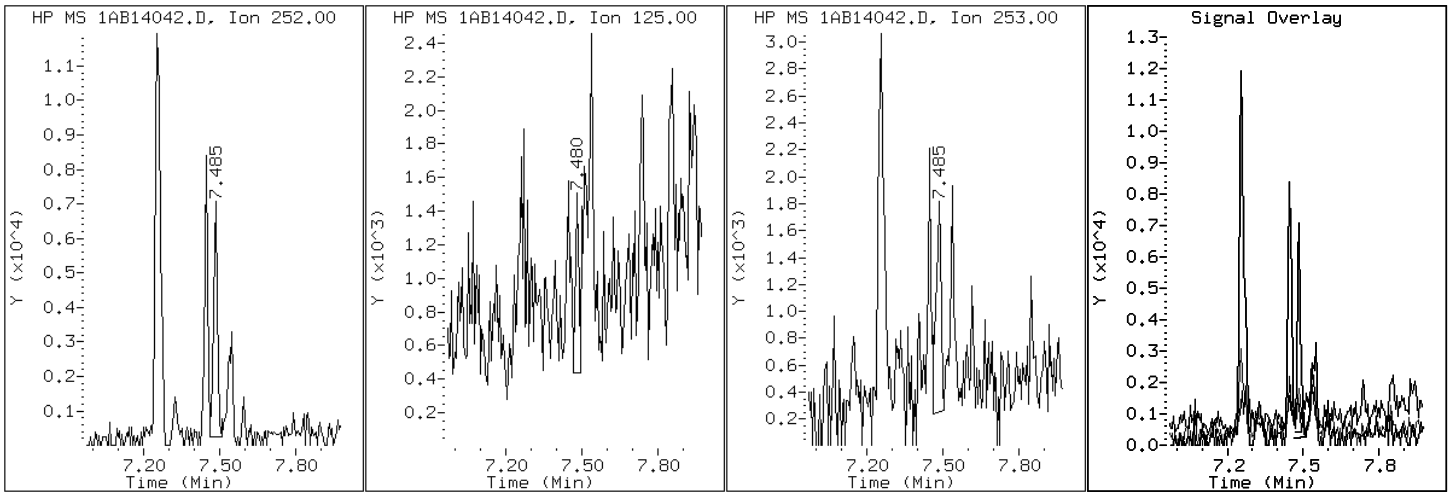
Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

Client ID: FM0138A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

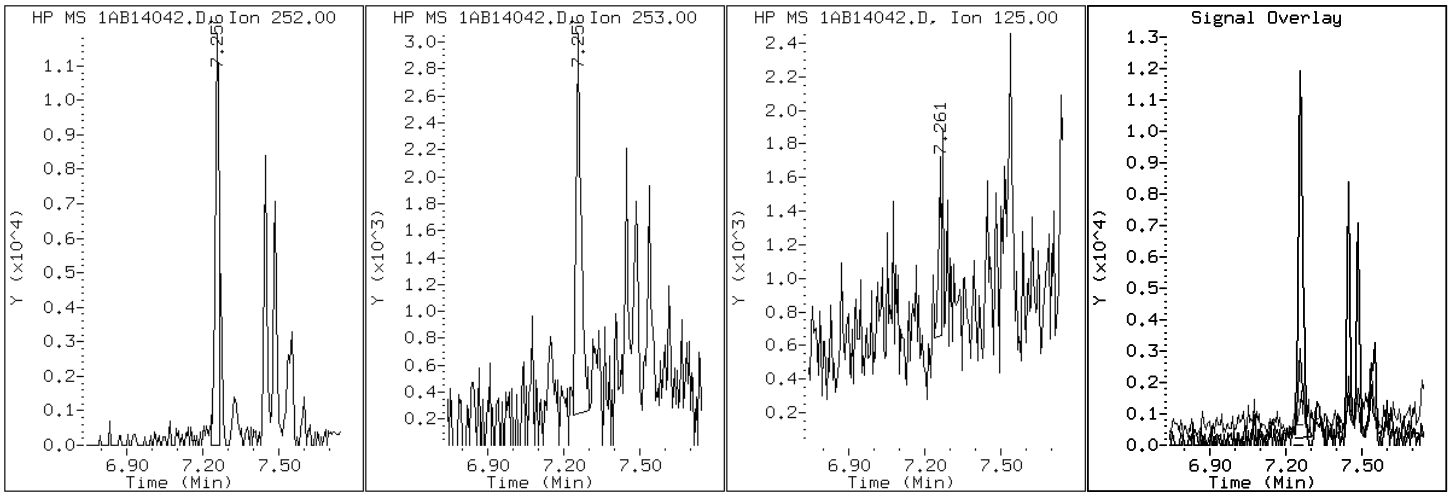
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

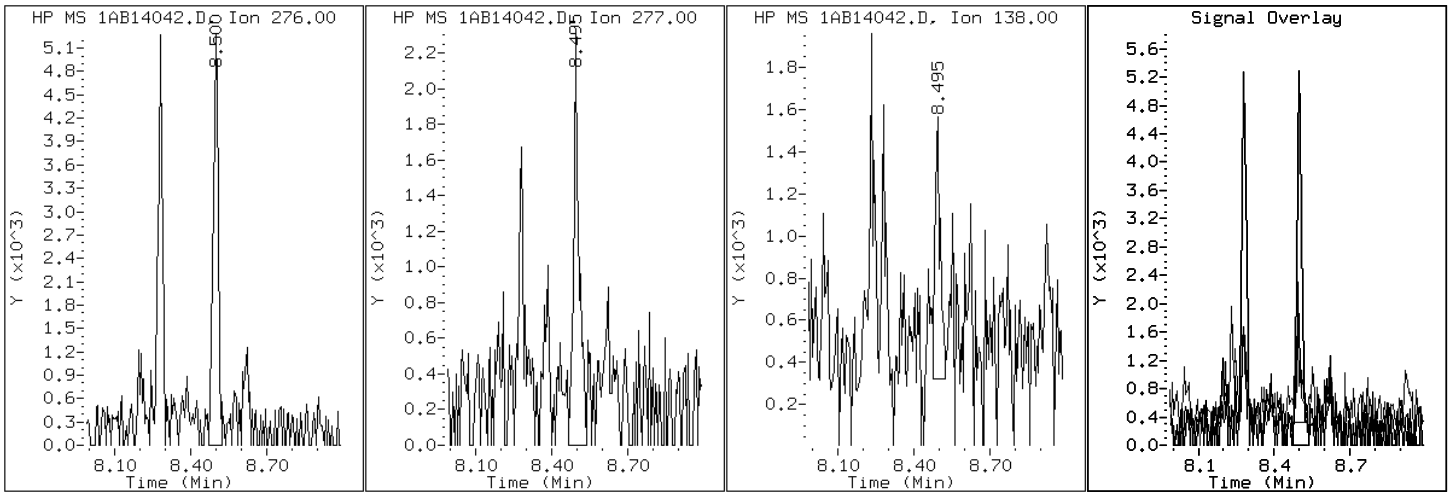
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

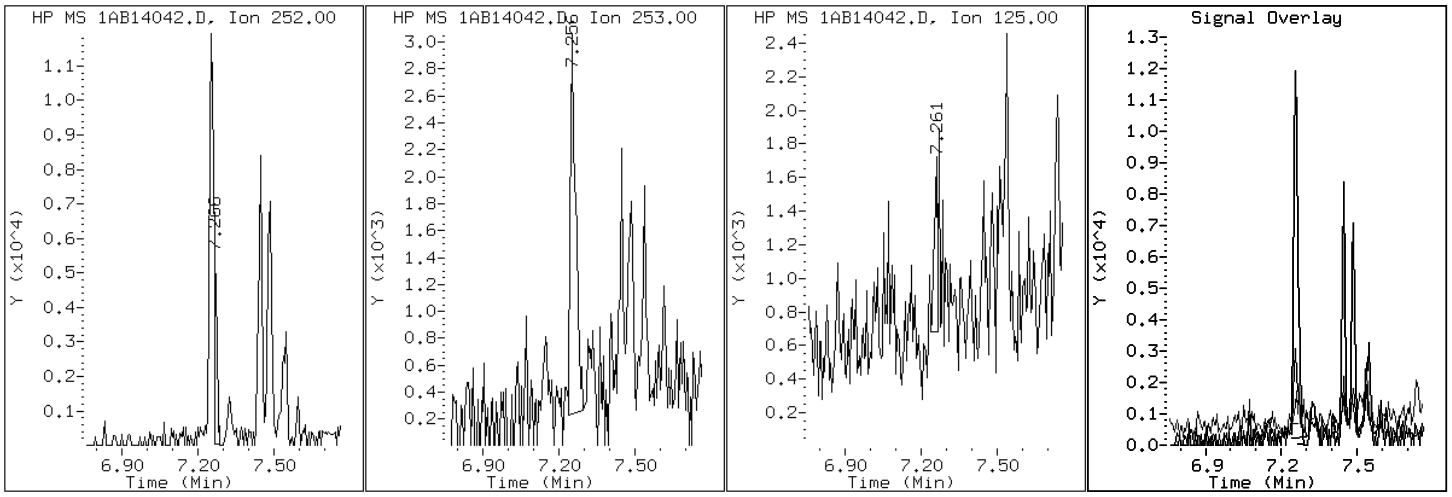
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

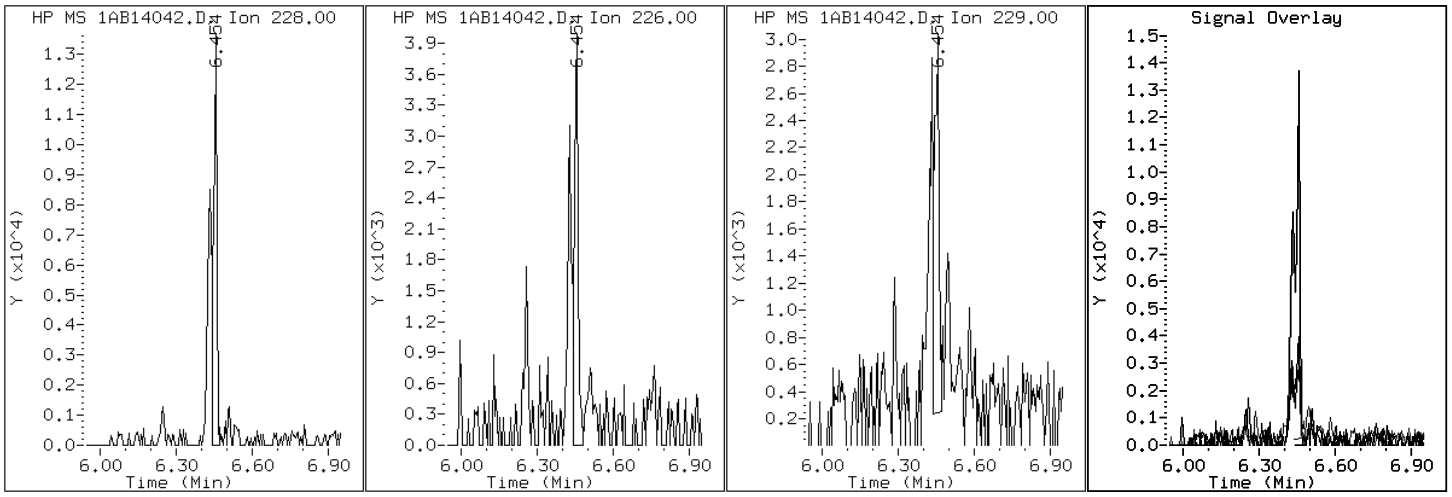
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

19 Chrysene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

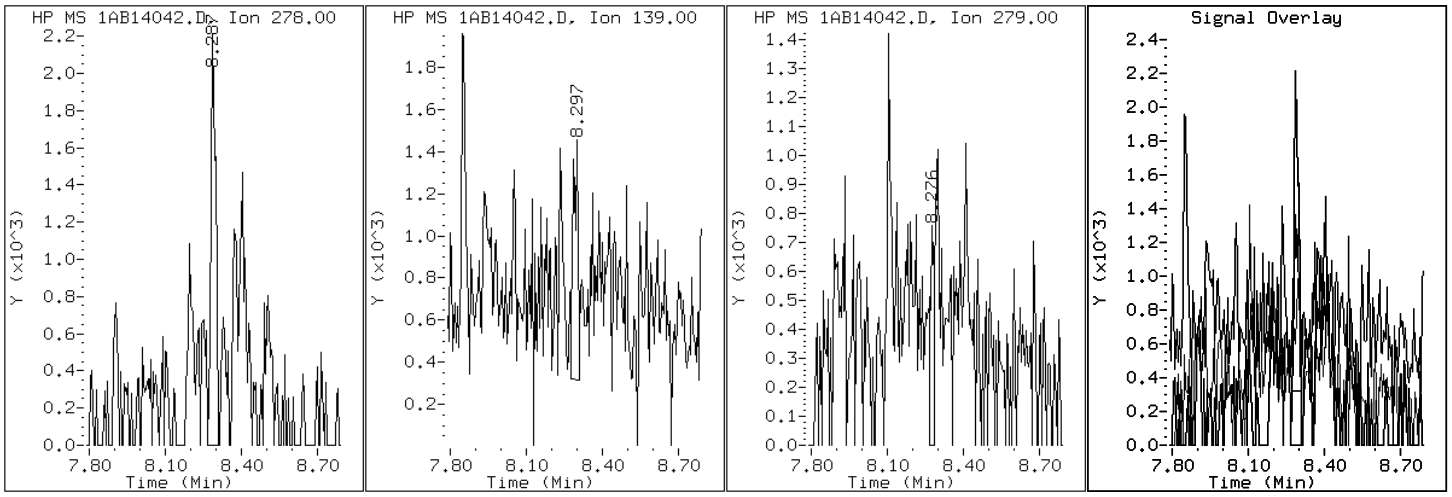
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

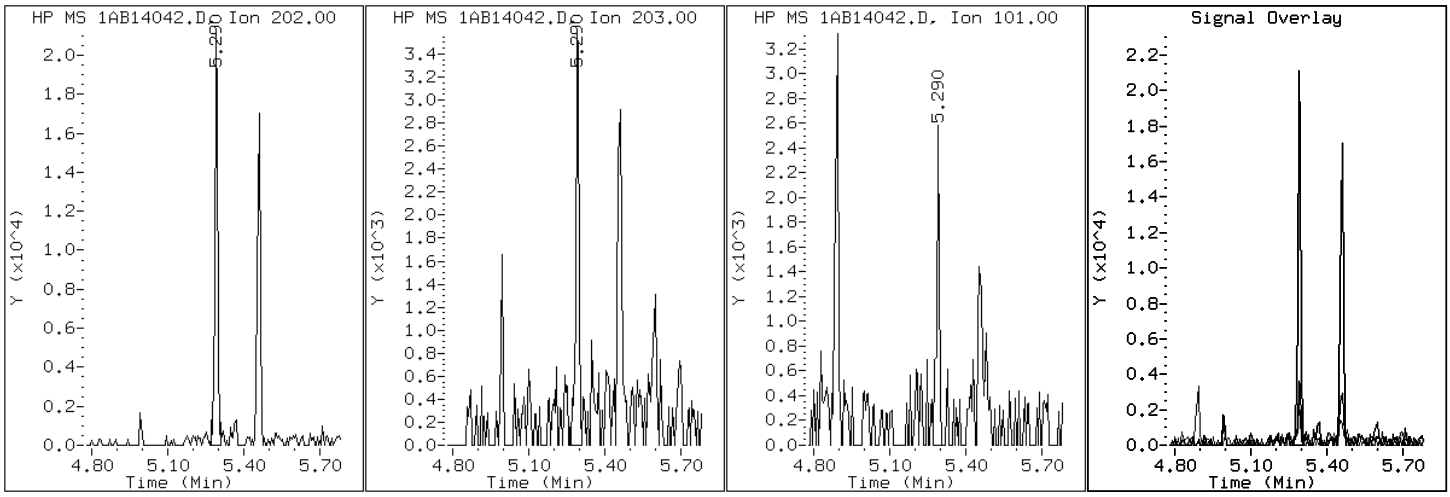
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

15 Fluoranthene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

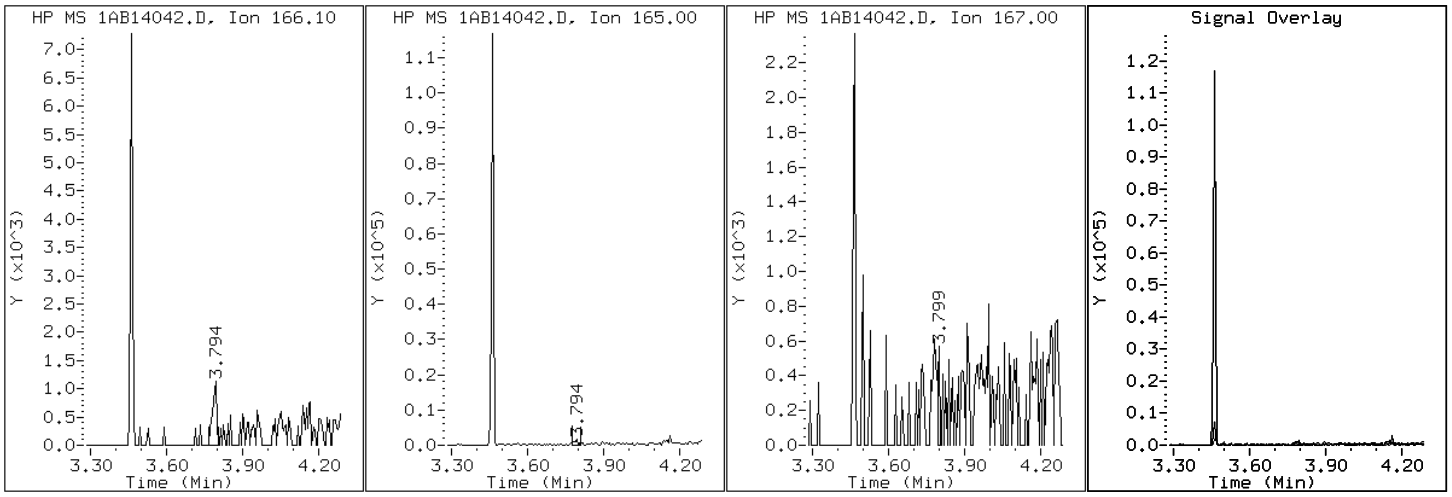
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

9 Fluorene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

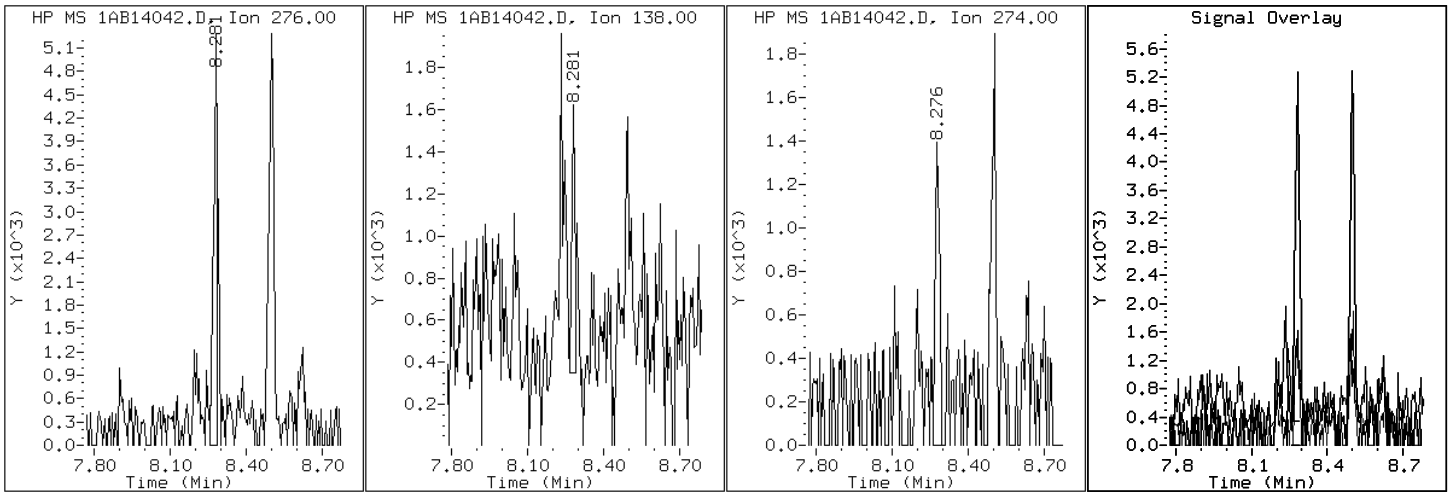
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



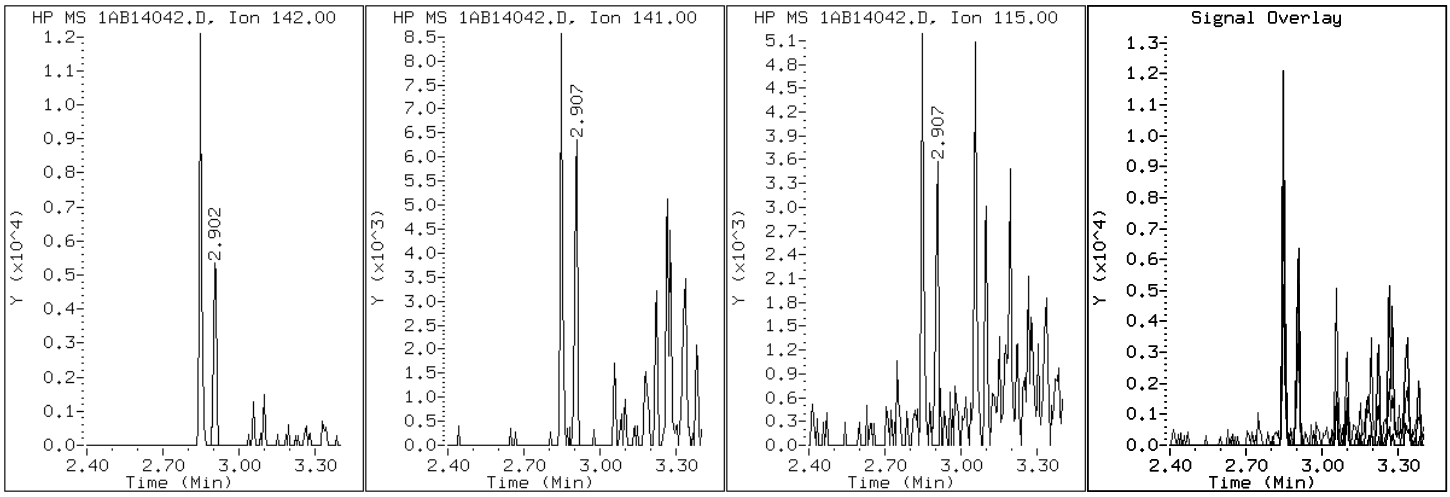
Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

Client ID: FM0138A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a Operator: SCC

4 1-Methylnaphthalene



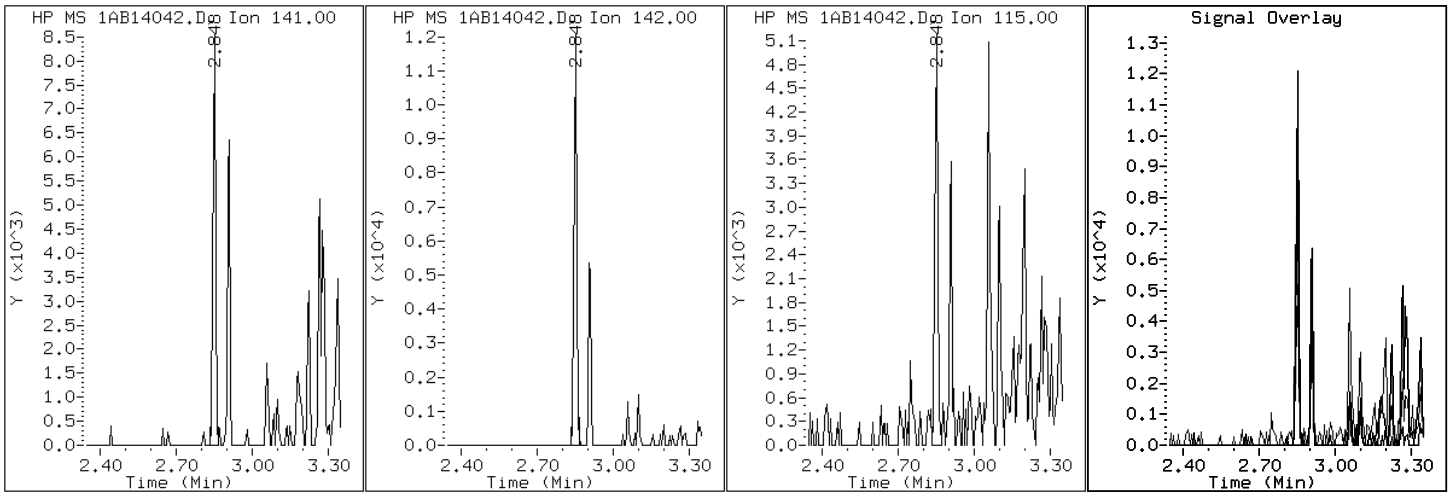
Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

Client ID: FM0138A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

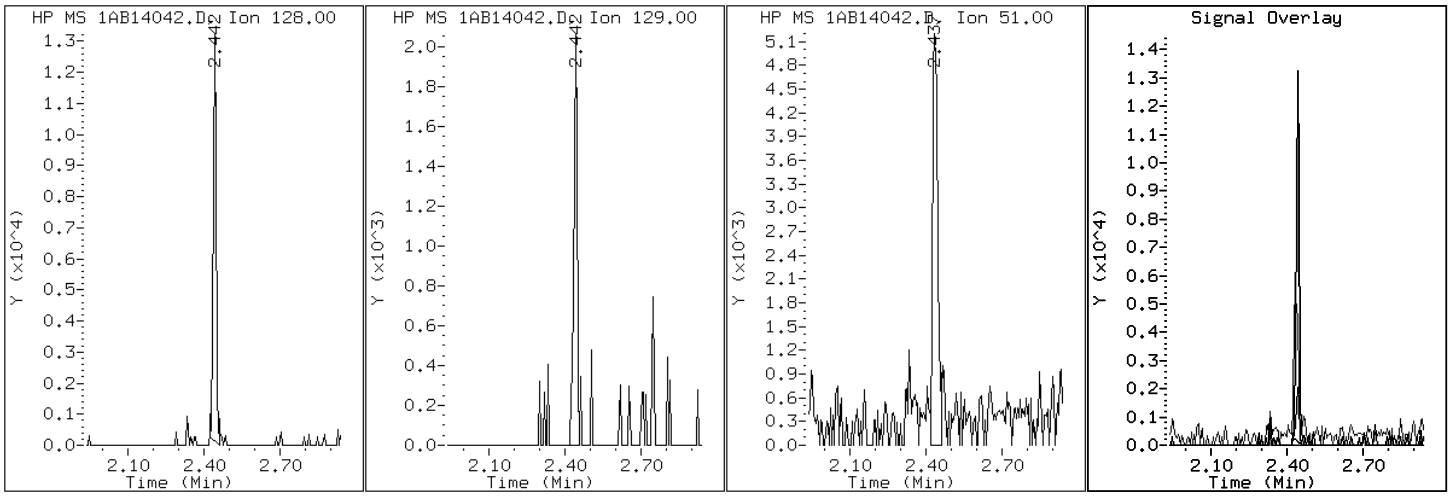
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

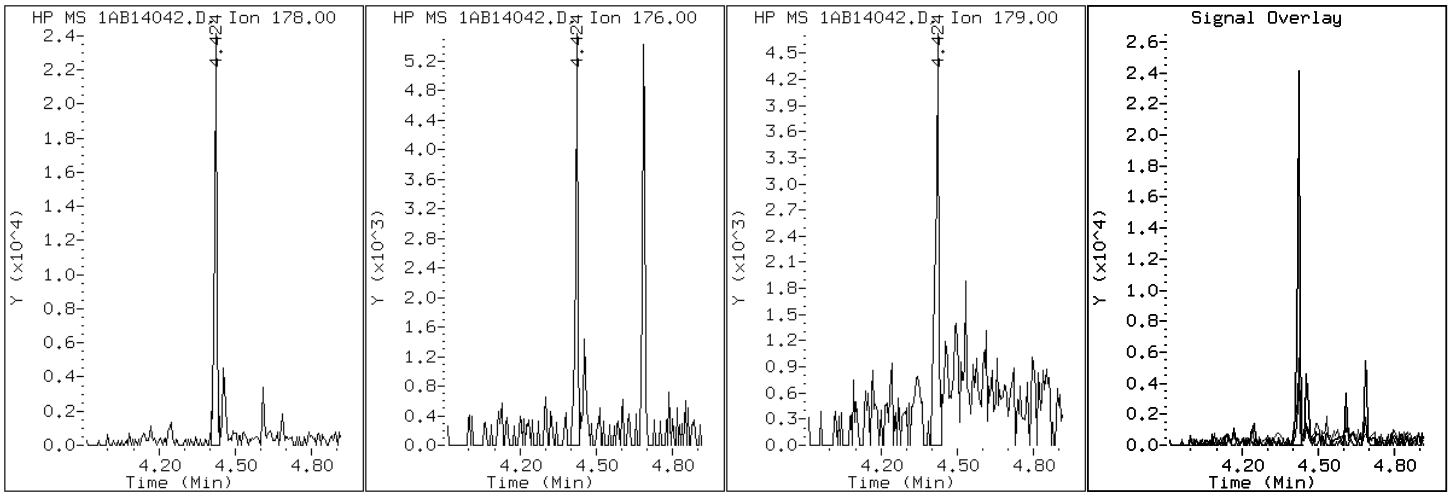
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

11 Phenanthrene



Data File: 1AB14042.D

Date: 14-FEB-2013 20:11

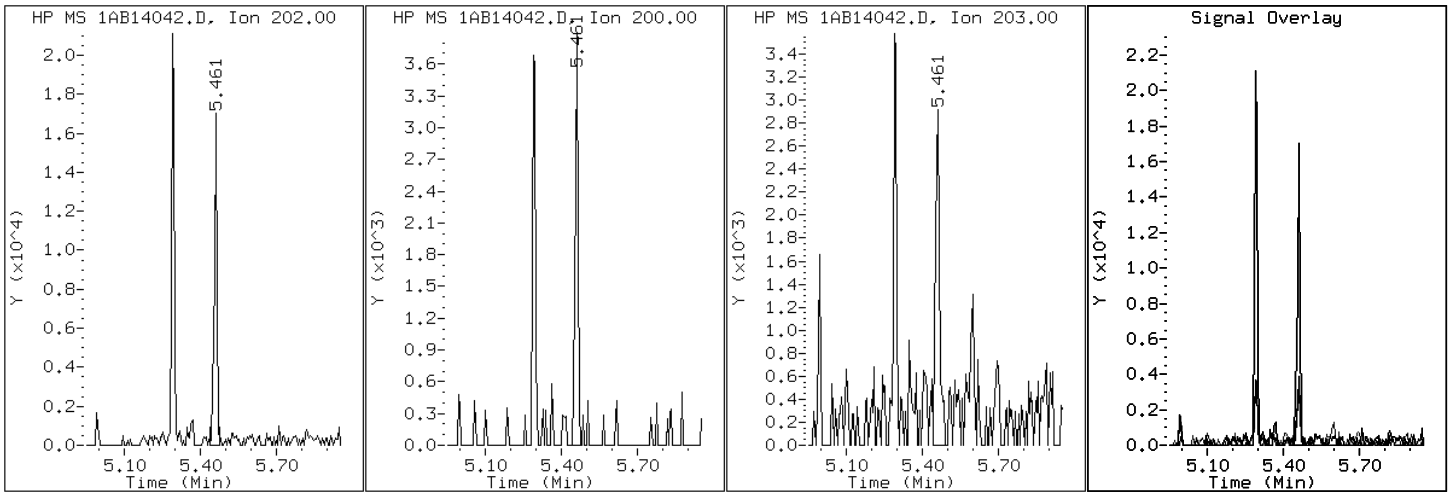
Client ID: FM0138A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-5-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14042.D
Inj. Date and Time: 14-FEB-2013 20:11
Instrument ID: BSMA5973.i
Client ID: FM0138A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

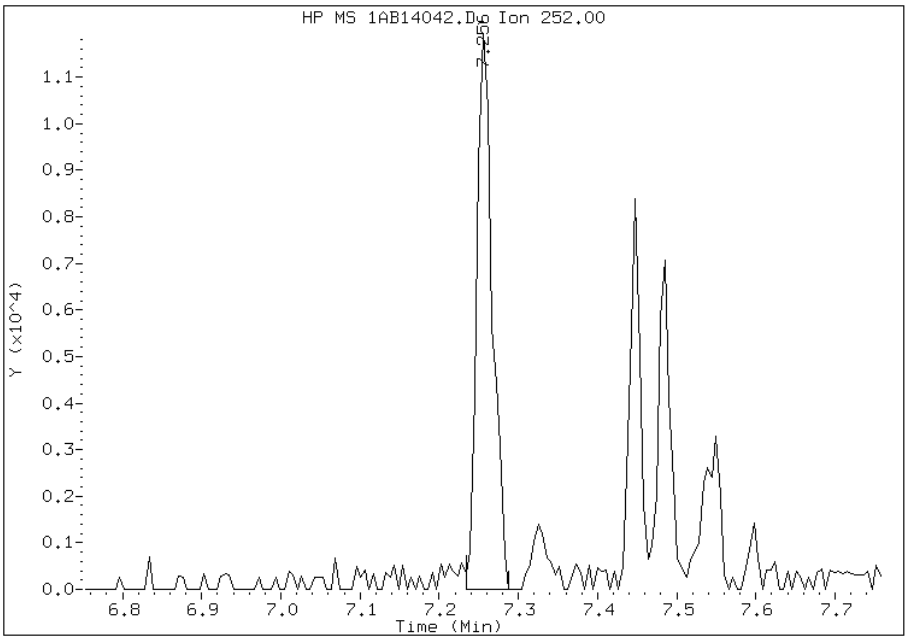
Processing Integration Results

RT: 7.26

Response: 16228

Amount: 1

Conc: 71



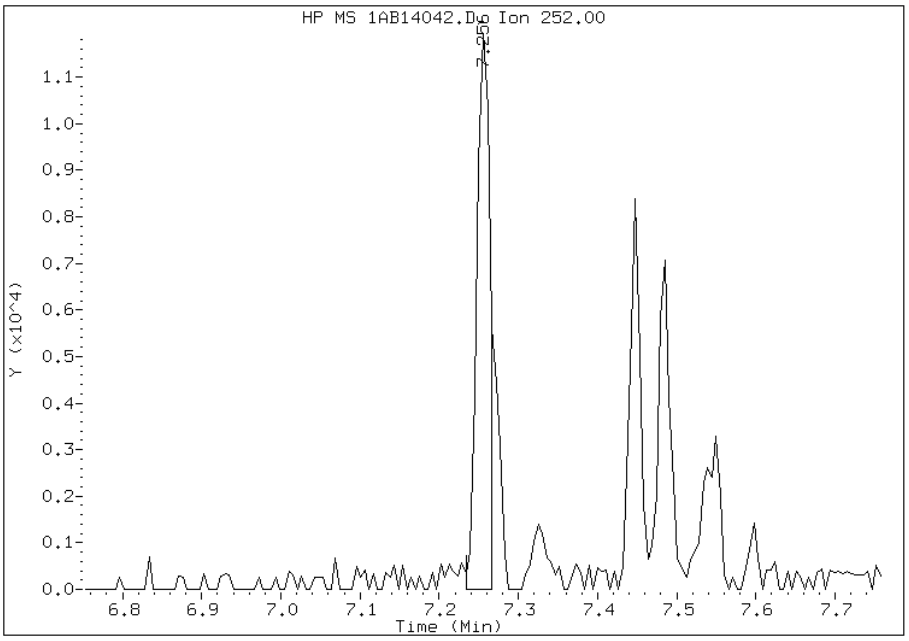
Manual Integration Results

RT: 7.26

Response: 13578

Amount: 1

Conc: 59



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14042.D
Inj. Date and Time: 14-FEB-2013 20:11
Instrument ID: BSMA5973.i
Client ID: FM0138A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

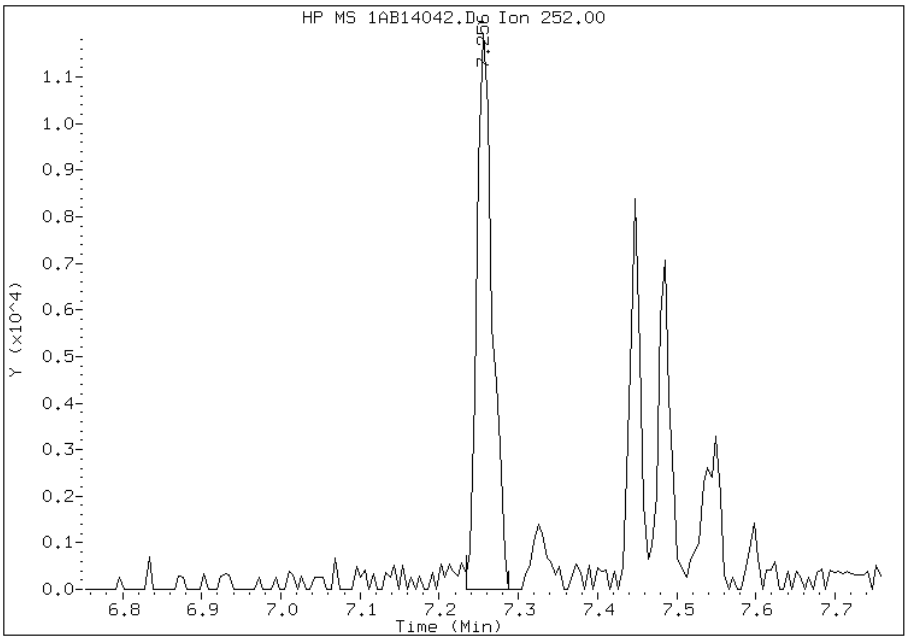
Processing Integration Results

RT: 7.26

Response: 16228

Amount: 1

Conc: 68



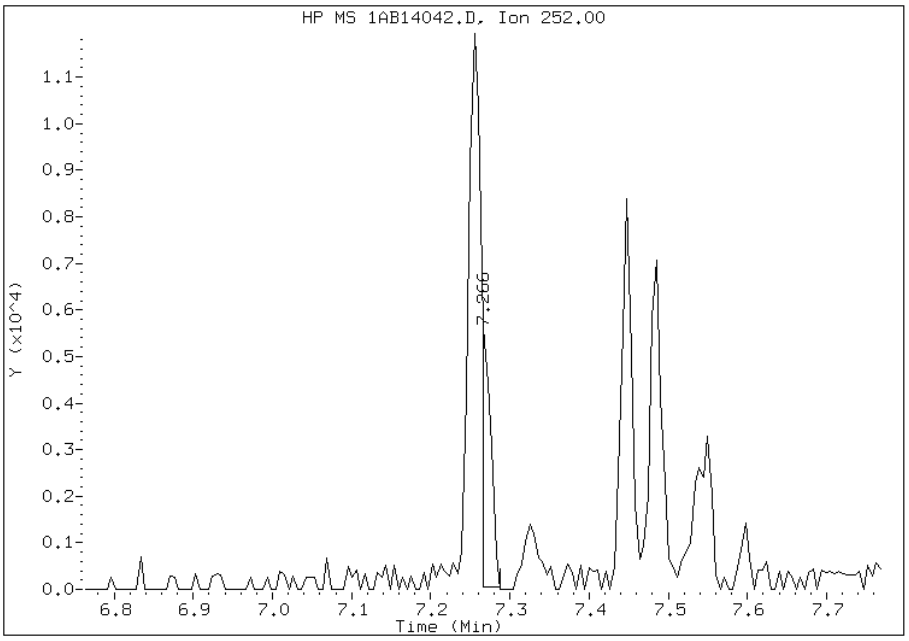
Manual Integration Results

RT: 7.27

Response: 4362

Amount: 0

Conc: 18



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14042.D
Inj. Date and Time: 14-FEB-2013 20:11
Instrument ID: BSMA5973.i
Client ID: FM0138A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

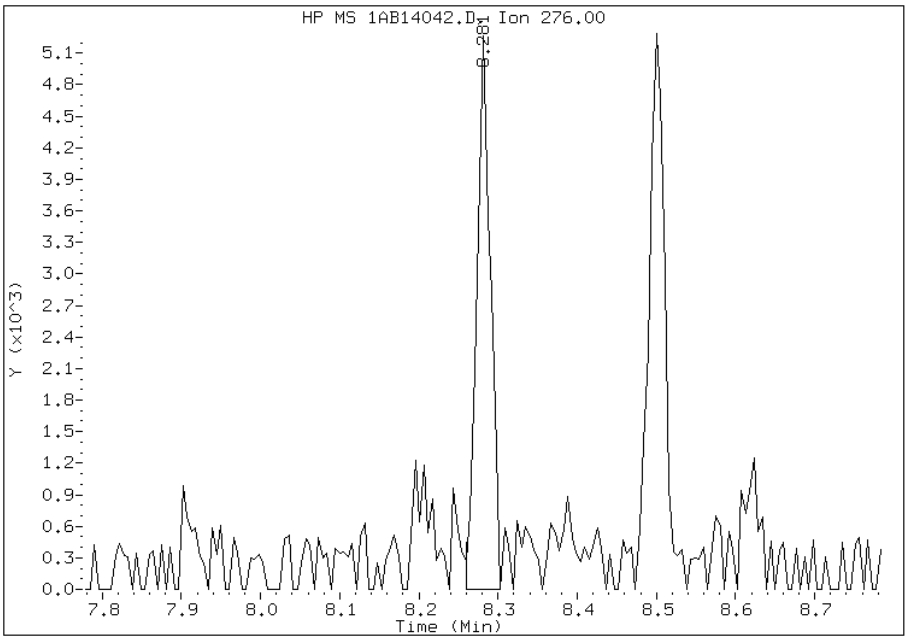
Processing Integration Results

RT: 8.28

Response: 6238

Amount: 0

Conc: 36



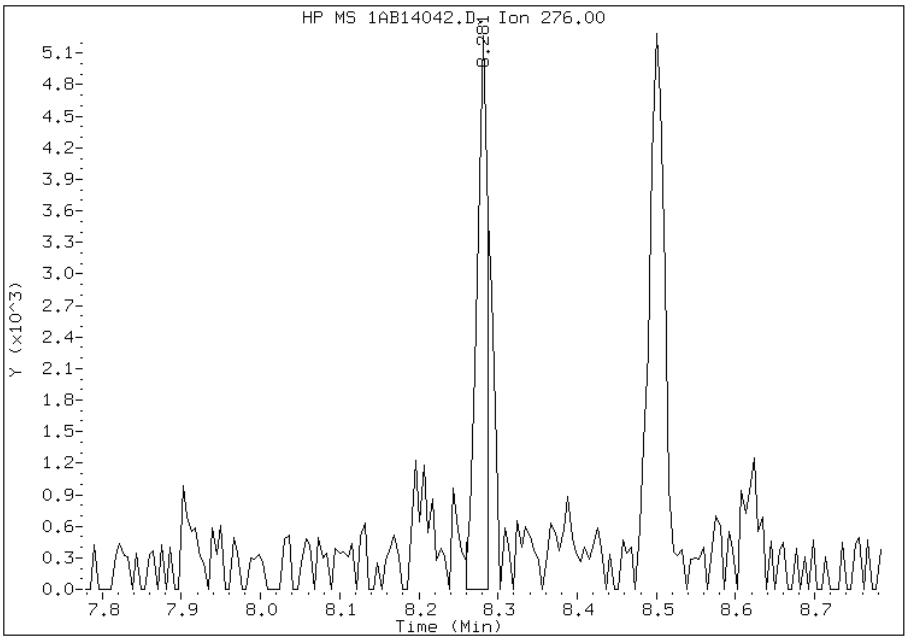
Manual Integration Results

RT: 8.28

Response: 4903

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0138B-CS | Lab Sample ID: 680-87279-6

Matrix: Solid | Lab File ID: 1AB15010.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:43

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.35(g) | Date Analyzed: 02/15/2013 16:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	41	U	41	5.1
120-12-7	Anthracene	8.5	U	8.5	4.3
56-55-3	Benzo[a]anthracene	12		8.1	4.0
50-32-8	Benzo[a]pyrene	6.2	J	11	5.3
205-99-2	Benzo[b]fluoranthene	8.0	J	12	6.2
191-24-2	Benzo[g,h,i]perylene	4.5	J	20	4.5
207-08-9	Benzo[k]fluoranthene	8.1	U F	8.1	3.7
218-01-9	Chrysene	9.0	J	9.1	4.6
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.2
206-44-0	Fluoranthene	12	J	20	4.1
86-73-7	Fluorene	20	U	20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.2
90-12-0	1-Methylnaphthalene	41	U	41	4.5
91-57-6	2-Methylnaphthalene	41	U	41	7.2
91-20-3	Naphthalene	5.7	J	41	4.5
85-01-8	Phenanthrene	16		8.1	4.0
129-00-0	Pyrene	10	J	20	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15010.D
Lab Smp Id: 680-87279-A-6-A Client Smp ID: FM0138B-CS
Inj Date : 15-FEB-2013 16:22
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-6-a
Misc Info : 680-87279-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.350	Weight Extracted
M	3.736	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.415	2.415	(1.000)	1001883	40.0000	
* 6 Acenaphthene-d10	164	3.440	3.441	(1.000)	656819	40.0000	
* 10 Phenanthrene-d10	188	4.381	4.386	(1.000)	960764	40.0000	
$ 14 o-Terphenyl	230	4.664	4.664	(1.065)	94614	6.77731	458.6549
* 18 Chrysene-d12	240	6.400	6.411	(1.000)	664318	40.0000	
* 23 Perylene-d12	264	7.495	7.501	(1.000)	548459	40.0000	
2 Naphthalene	128	2.425	2.426	(1.004)	2039	0.08385	5.6743(M)
11 Phenanthrene	178	4.397	4.402	(1.004)	6112	0.23299	15.7675
15 Fluoranthene	202	5.257	5.262	(1.200)	4619	0.17760	12.0188
16 Pyrene	202	5.422	5.433	(0.847)	3627	0.15118	10.2308
17 Benzo(a)anthracene	228	6.395	6.395	(0.999)	3609	0.18195	12.3131
19 Chrysene	228	6.416	6.427	(1.002)	2584	0.13365	9.0447
20 Benzo(b)fluoranthene	252	7.212	7.217	(0.962)	1799	0.11752	7.9533
22 Benzo(a)pyrene	252	7.447	7.452	(0.994)	1338	0.09205	6.2291

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
26 Benzo(g,h,i)perylene	276	8.441	8.446	(1.126)	798	0.06711	4.5414

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AB15010.D

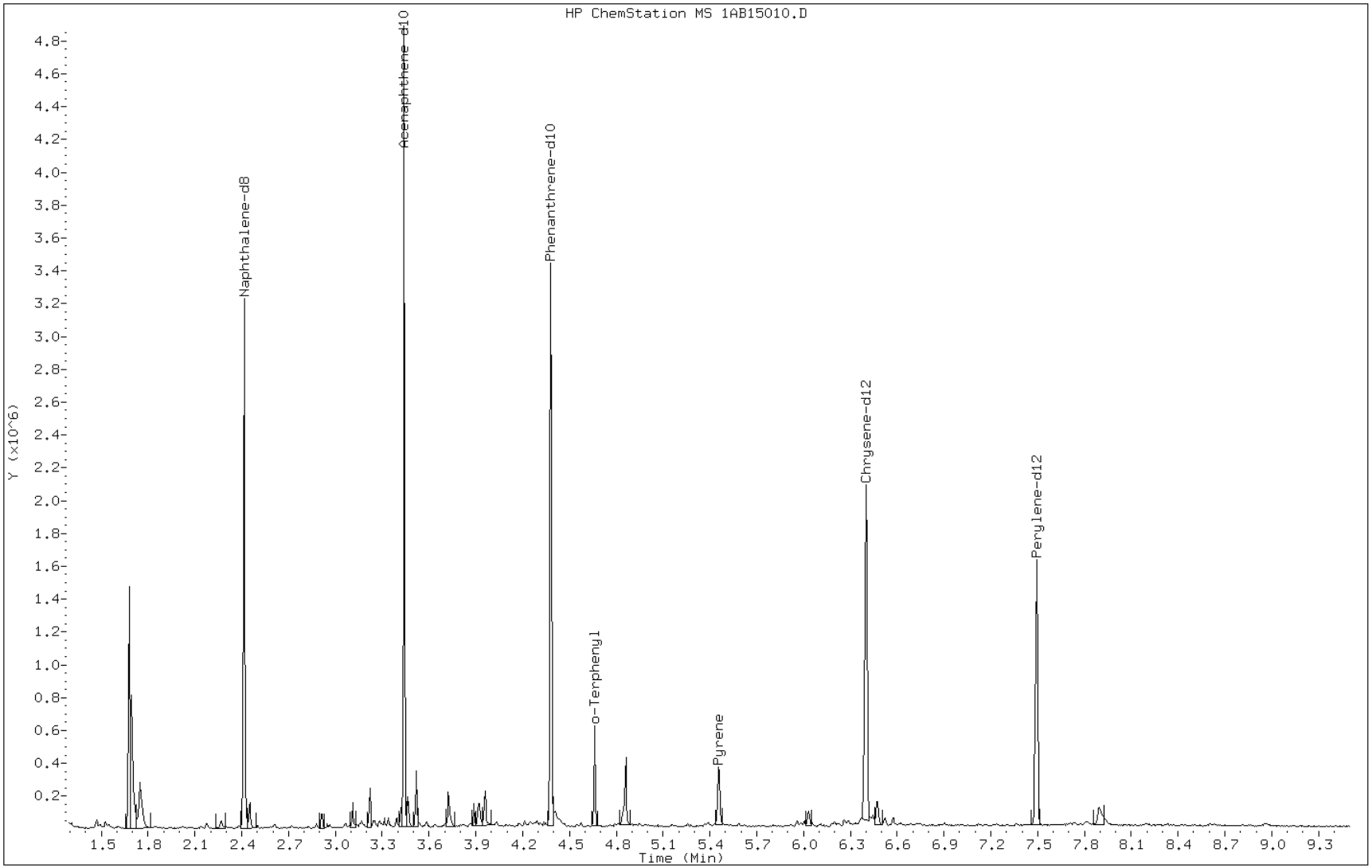
Date: 15-FEB-2013 16:22

Client ID: FM0138B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-a

Operator: SCC



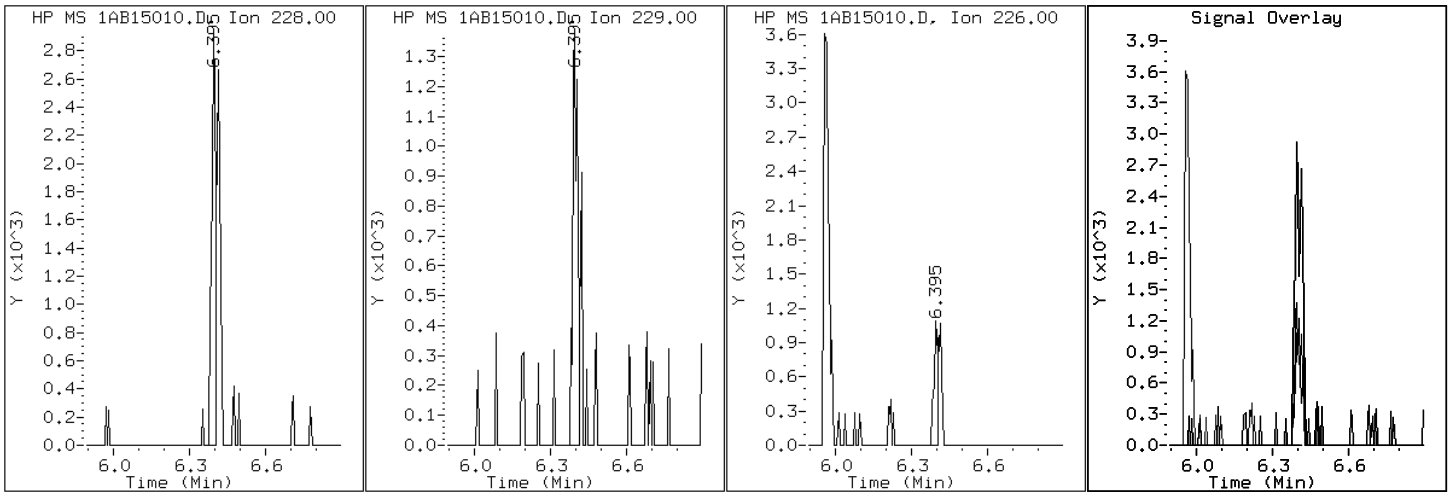
Data File: 1AB15010.D

Date: 15-FEB-2013 16:22

Client ID: FM0138B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1AB15010.D

Date: 15-FEB-2013 16:22

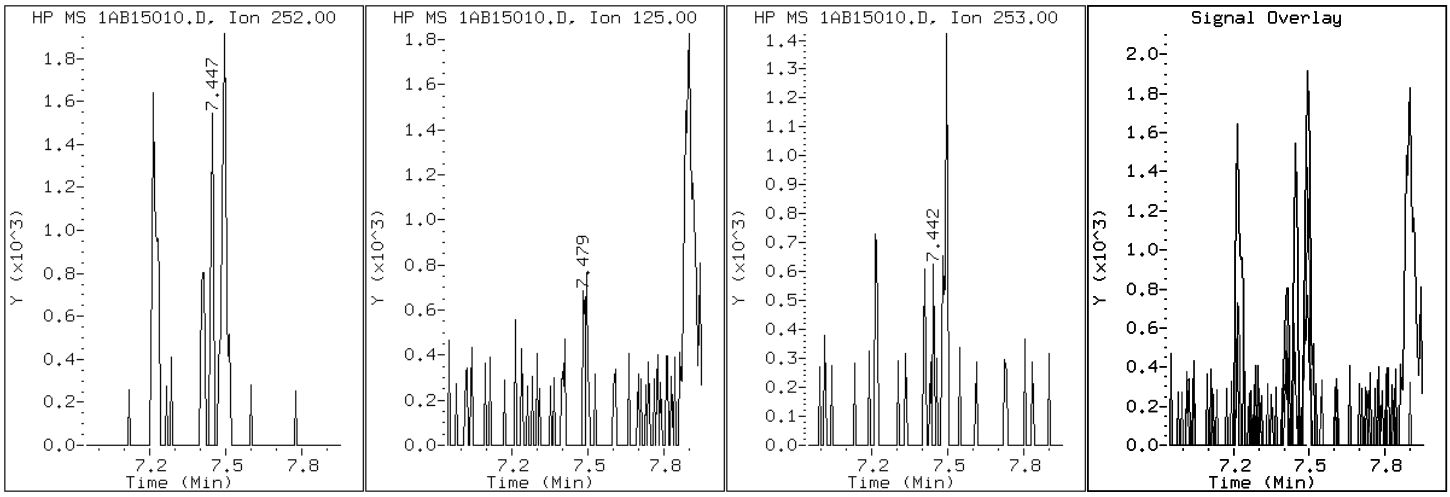
Client ID: FM0138B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB15010.D

Date: 15-FEB-2013 16:22

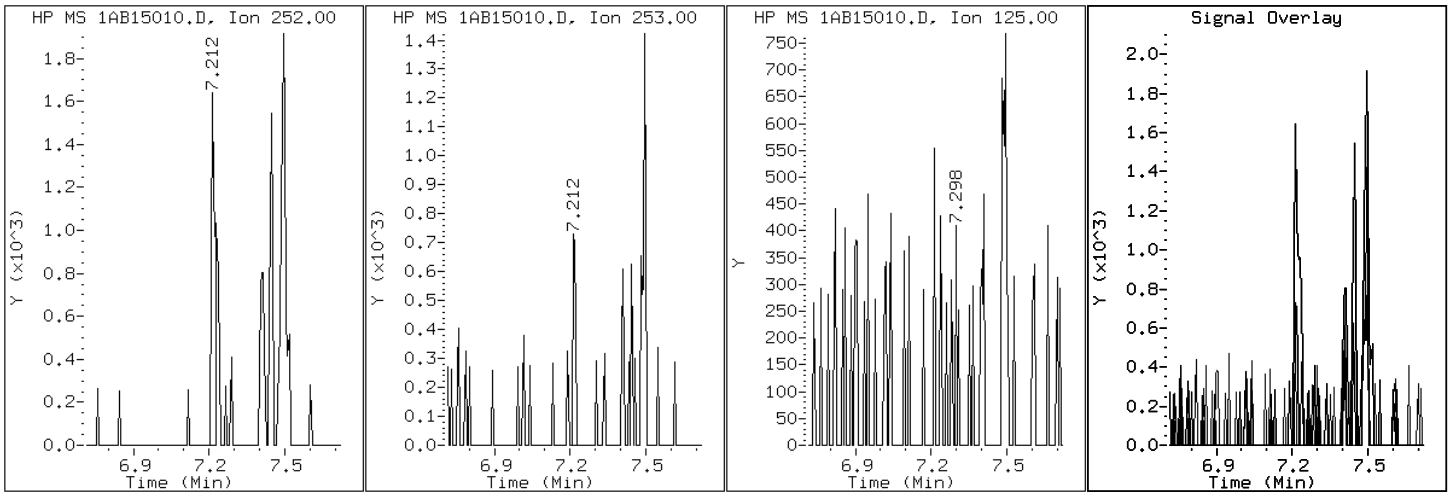
Client ID: FM0138B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB15010.D

Date: 15-FEB-2013 16:22

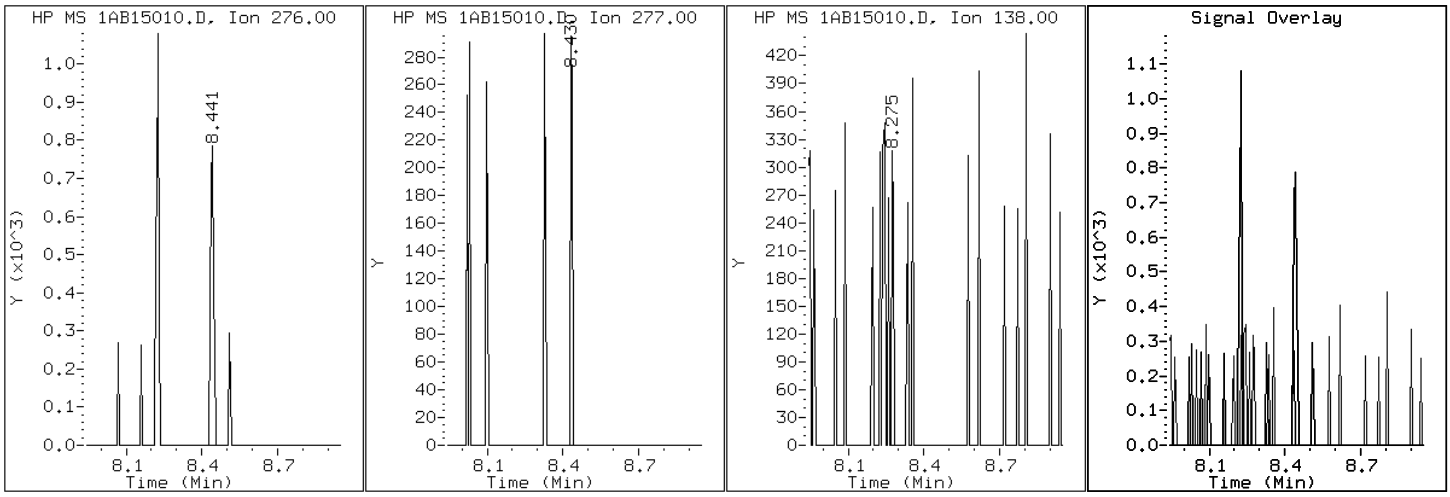
Client ID: FM0138B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB15010.D

Date: 15-FEB-2013 16:22

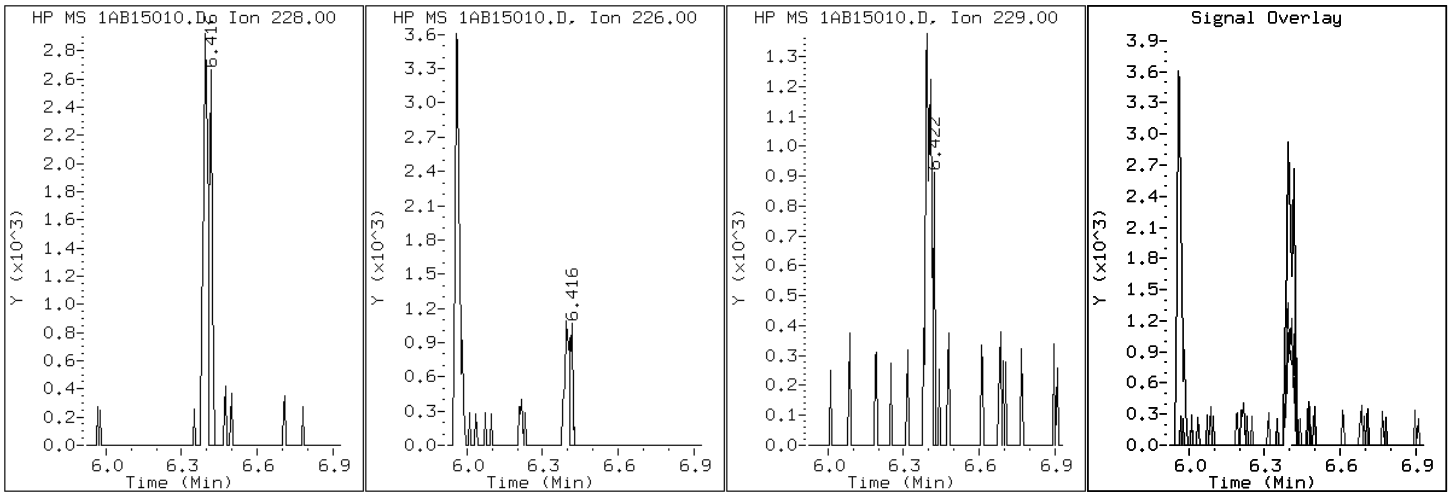
Client ID: FM0138B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-a

Operator: SCC

19 Chrysene



Data File: 1AB15010.D

Date: 15-FEB-2013 16:22

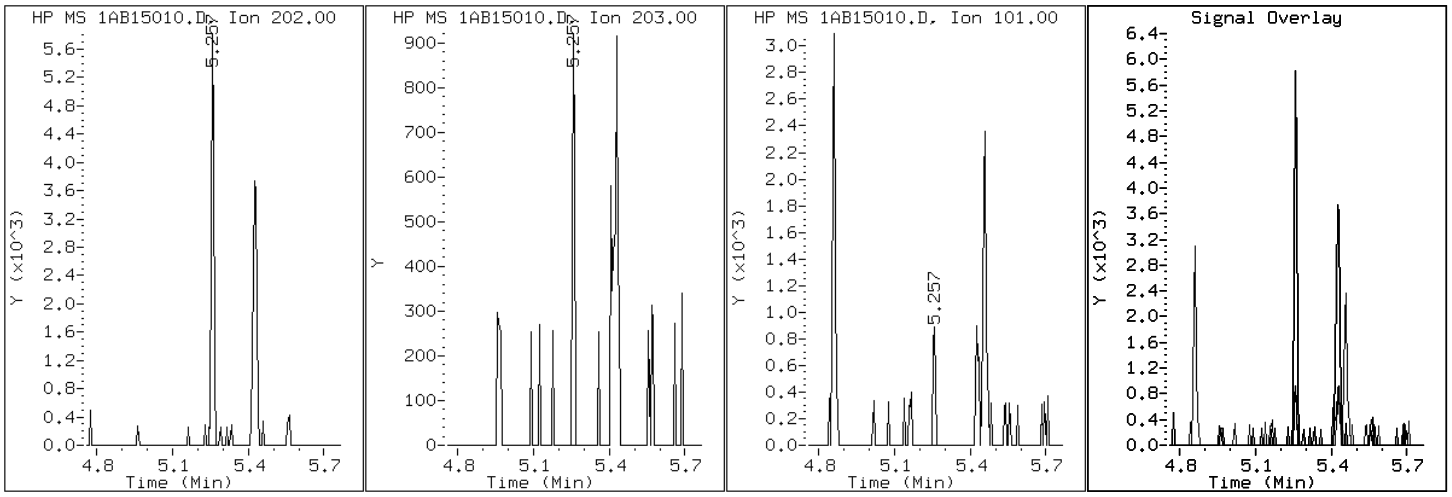
Client ID: FM0138B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-a

Operator: SCC

15 Fluoranthene



Data File: 1AB15010.D

Date: 15-FEB-2013 16:22

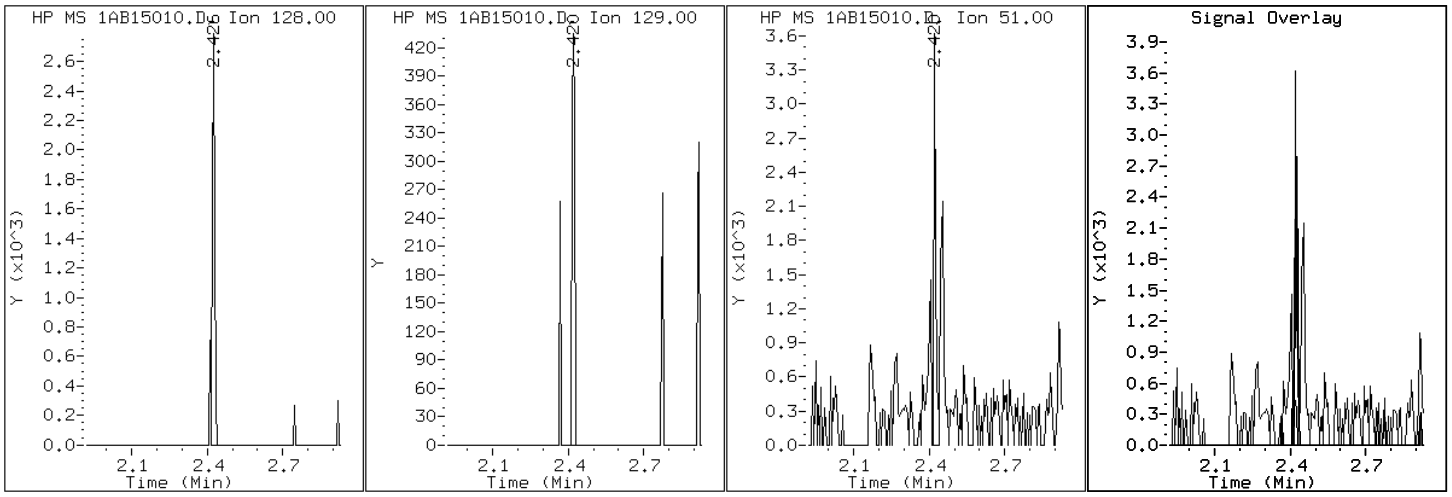
Client ID: FM0138B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1AB15010.D

Date: 15-FEB-2013 16:22

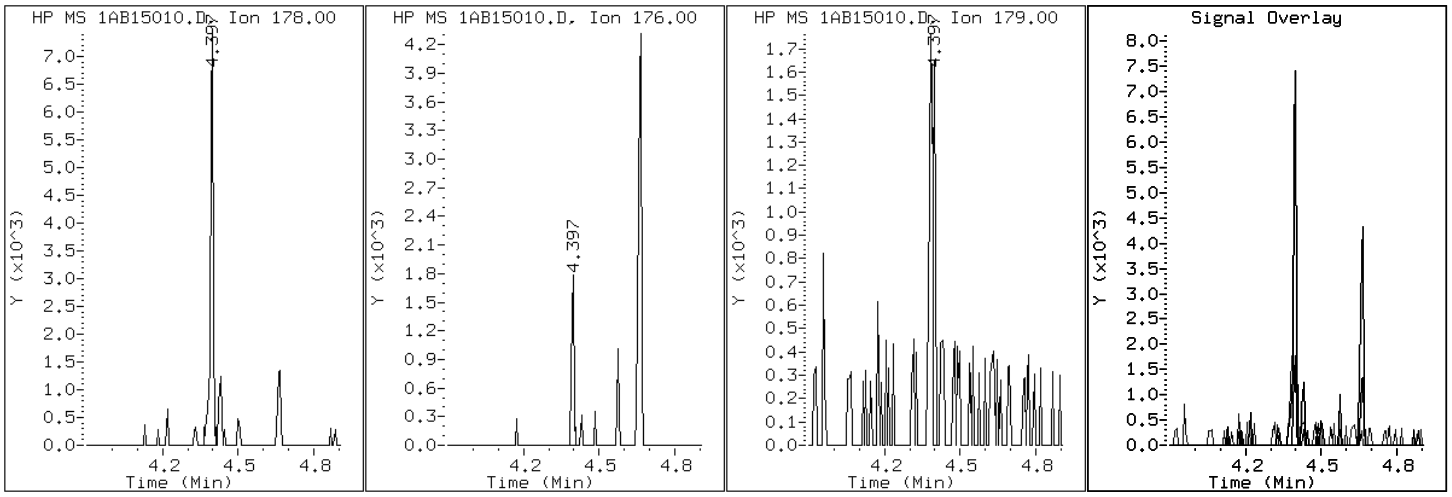
Client ID: FM0138B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-a

Operator: SCC

11 Phenanthrene



Data File: 1AB15010.D

Date: 15-FEB-2013 16:22

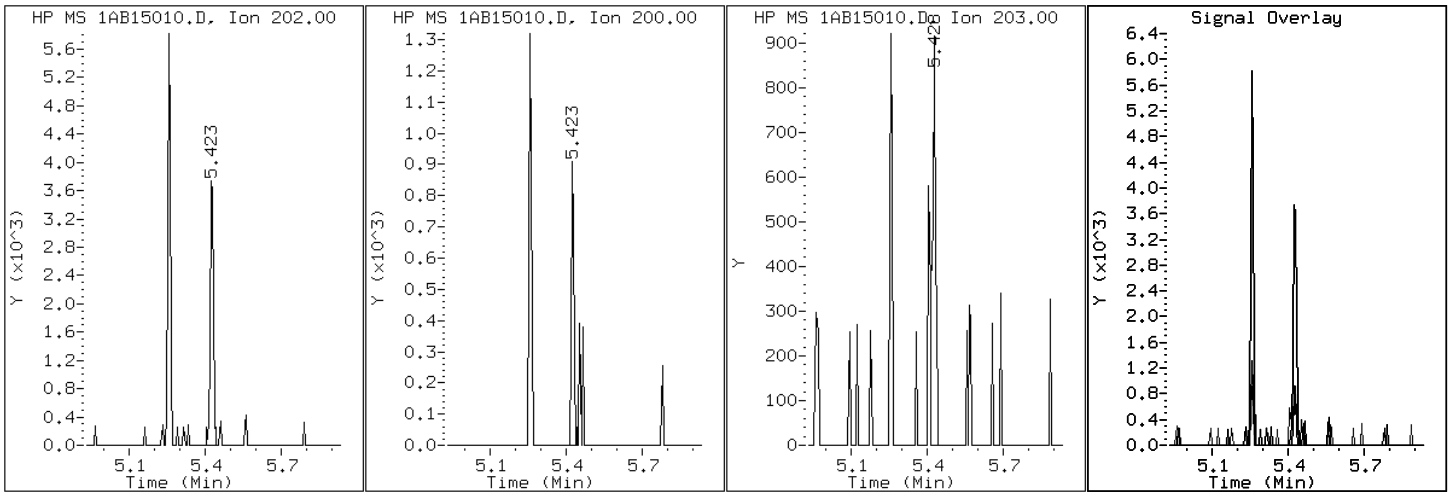
Client ID: FM0138B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15010.D
Inj. Date and Time: 15-FEB-2013 16:22
Instrument ID: BSMA5973.i
Client ID: FM0138B-CS
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 02/18/2013

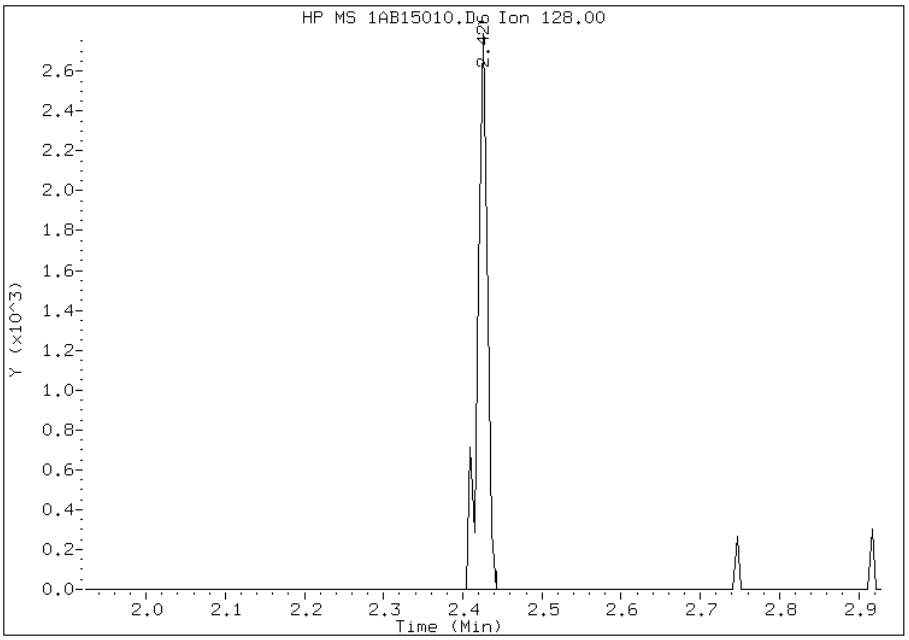
Processing Integration Results

RT: 2.43

Response: 2261

Amount: 0

Conc: 6



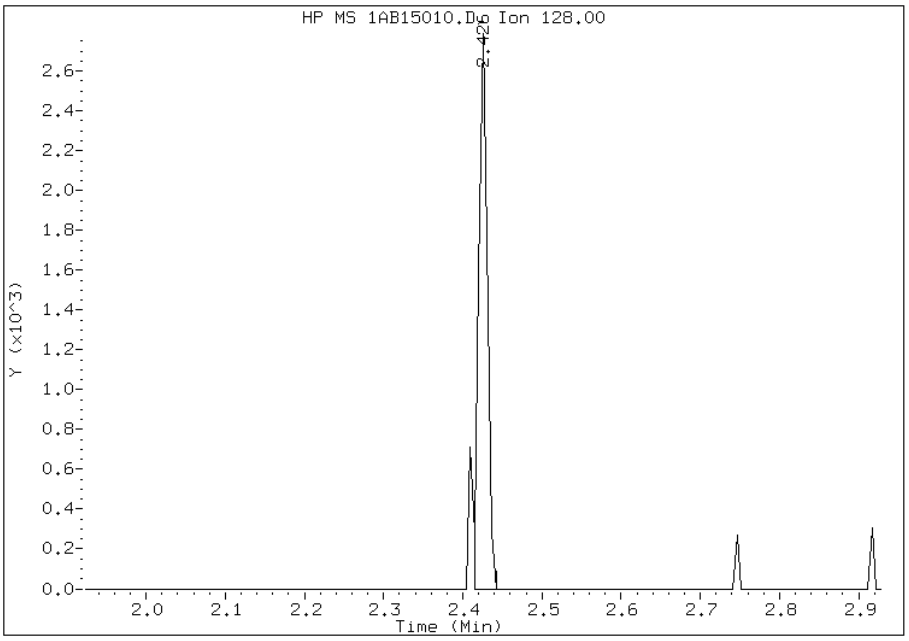
Manual Integration Results

RT: 2.43

Response: 2039

Amount: 0

Conc: 6



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:10
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0139A-CS | Lab Sample ID: 680-87279-7

Matrix: Solid | Lab File ID: 1AB14043.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 11:24

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.19(g) | Date Analyzed: 02/14/2013 20:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1600		410	81
208-96-8	Acenaphthylene	370		160	20
120-12-7	Anthracene	9700		34	17
53-70-3	Dibenz(a,h)anthracene	11000		81	17
86-73-7	Fluorene	1500		81	17
90-12-0	1-Methylnaphthalene	320		160	18
91-57-6	2-Methylnaphthalene	320		160	29
91-20-3	Naphthalene	440		160	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	84		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14043.D
Lab Smp Id: 680-87279-A-7-A Client Smp ID: FM0139A-CS
Inj Date : 14-FEB-2013 20:26
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-7-a
Misc Info : 680-87279-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 43
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	3.009	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.436	2.430	(1.000)	786437	40.0000	
* 6 Acenaphthene-d10	164	3.462	3.461	(1.000)	468921	40.0000	
* 10 Phenanthrene-d10	188	4.413	4.402	(1.000)	628537	40.0000	
$ 14 o-Terphenyl	230	4.691	4.685	(1.063)	19145	2.09625	569.1345
* 18 Chrysene-d12	240	6.475	6.426	(1.000)	872180	40.0000	(H)
* 23 Perylene-d12	264	7.581	7.527	(1.000)	809697	40.0000	(H)
2 Naphthalene	128	2.447	2.441	(1.004)	31045	1.62636	441.5583
3 2-Methylnaphthalene	141	2.848	2.847	(1.169)	12199	1.19292	323.8786
4 1-Methylnaphthalene	142	2.906	2.900	(1.193)	13560	1.17139	318.0338
5 Acenaphthylene	152	3.382	3.371	(0.977)	27881	1.34657	365.5942
7 Acenaphthene	154	3.478	3.477	(1.005)	65168	5.81515	1578.8199
9 Fluorene	166	3.793	3.787	(1.096)	78102	5.54256	1504.8114
11 Phenanthrene	178	4.434	4.418	(1.005)	2528068	147.308	39994.4128(A)
12 Anthracene	178	4.466	4.455	(1.012)	625349	35.7395	9703.3213

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.621	4.610	(1.047)	114752	7.65085	2077.2158
15 Fluoranthene	202	5.326	5.283	(1.207)	6426594	377.706	102547.6222(A)
16 Pyrene	202	5.497	5.454	(0.849)	5657209	179.601	48761.9109(AH)
17 Benzo(a)anthracene	228	6.464	6.416	(0.998)	5021899	192.838	52355.6778(AH)
19 Chrysene	228	6.496	6.448	(1.003)	3953180	155.736	42282.5929(AH)
20 Benzo(b)fluoranthene	252	7.319	7.244	(0.965)	6667332	295.030	80101.0155(AMH)
21 Benzo(k)fluoranthene	252	7.324	7.265	(0.966)	1709758	72.3620	19646.3879(AQMH)
22 Benzo(a)pyrene	252	7.549	7.479	(0.996)	3599431	167.726	45537.8420(AH)
24 Indeno(1,2,3-cd)pyrene	276	8.361	8.275	(1.103)	1398519	82.5300	22407.0099(AMH)
25 Dibenzo(a,h)anthracene	278	8.361	8.291	(1.103)	690200	40.7422	11061.5651(MH)
26 Benzo(g,h,i)perylene	276	8.580	8.494	(1.132)	1094780	62.3608	16931.0430(AH)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14043.D

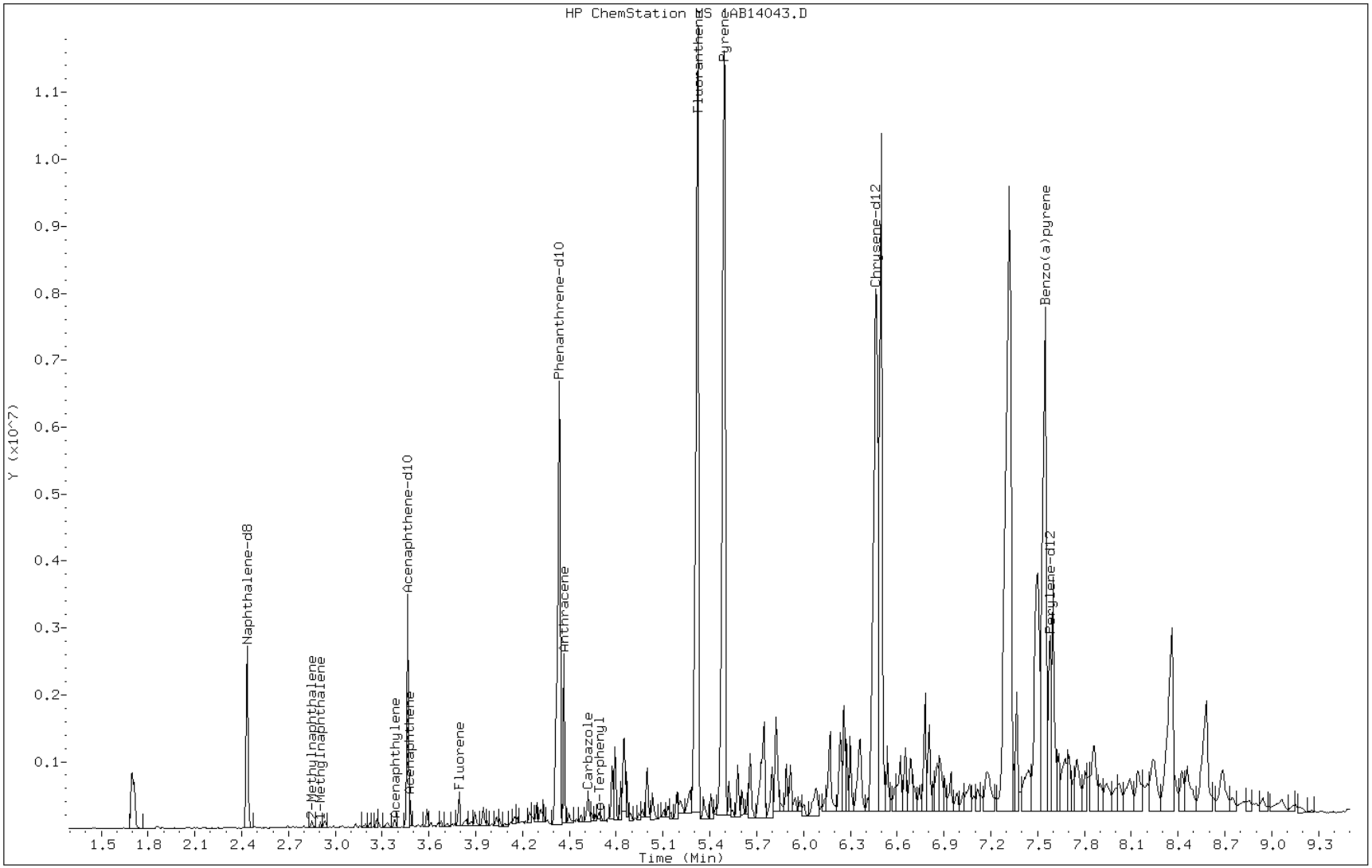
Date: 14-FEB-2013 20:26

Client ID: FM0139A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-7-a

Operator: SCC



Data File: 1AB14043.D

Date: 14-FEB-2013 20:26

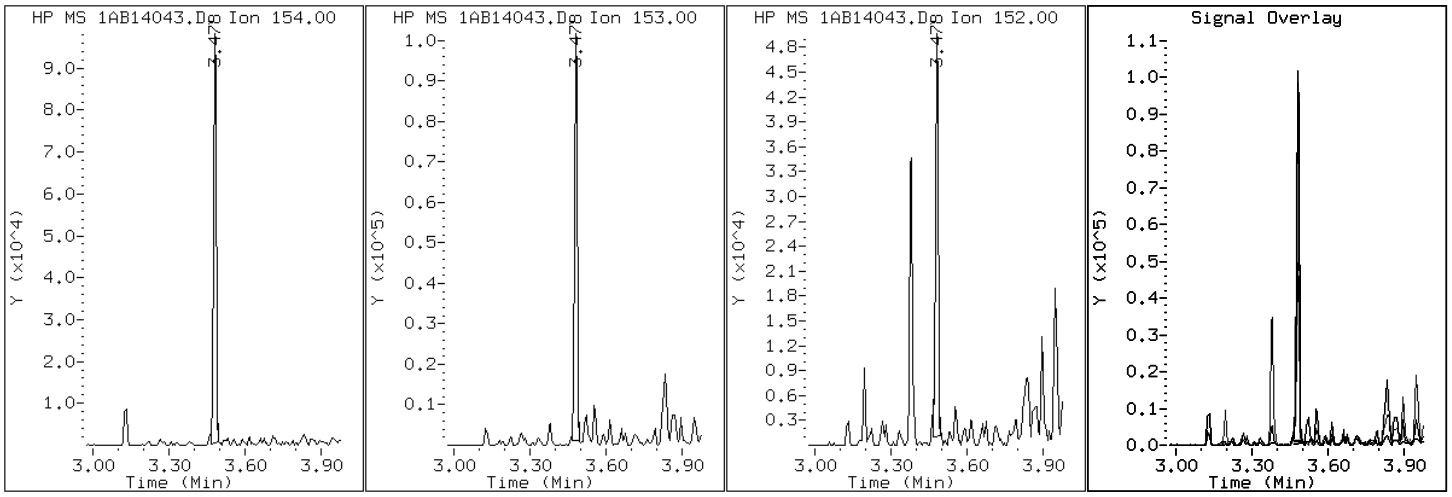
Client ID: FM0139A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-7-a

Operator: SCC

7 Acenaphthene



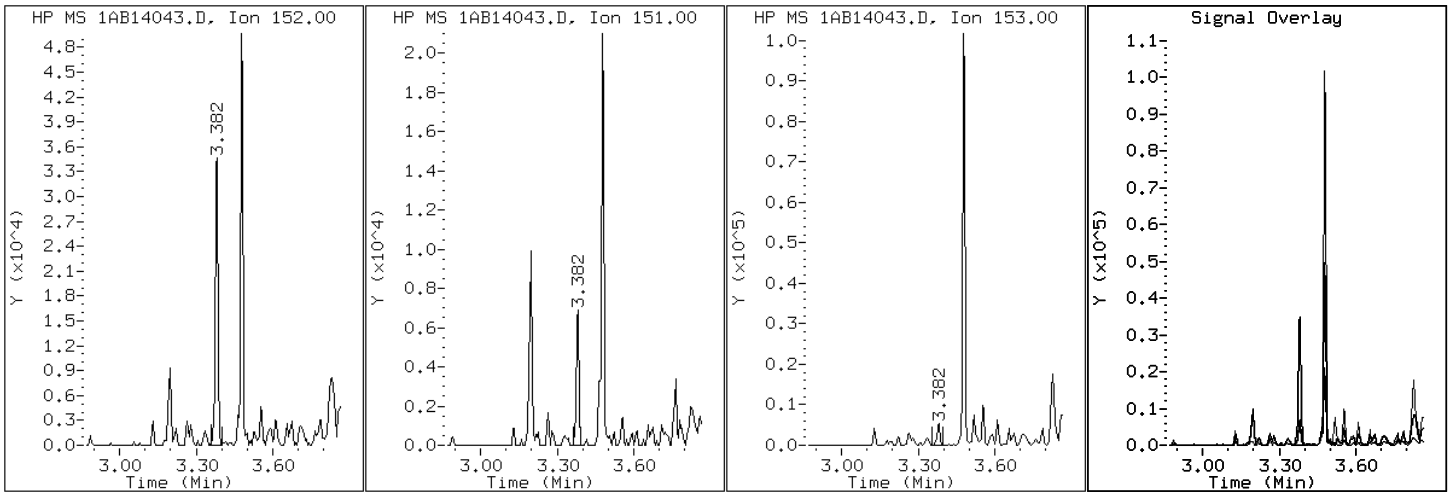
Data File: 1AB14043.D

Date: 14-FEB-2013 20:26

Client ID: FM0139A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-7-a Operator: SCC

5 Acenaphthylene



Data File: 1AB14043.D

Date: 14-FEB-2013 20:26

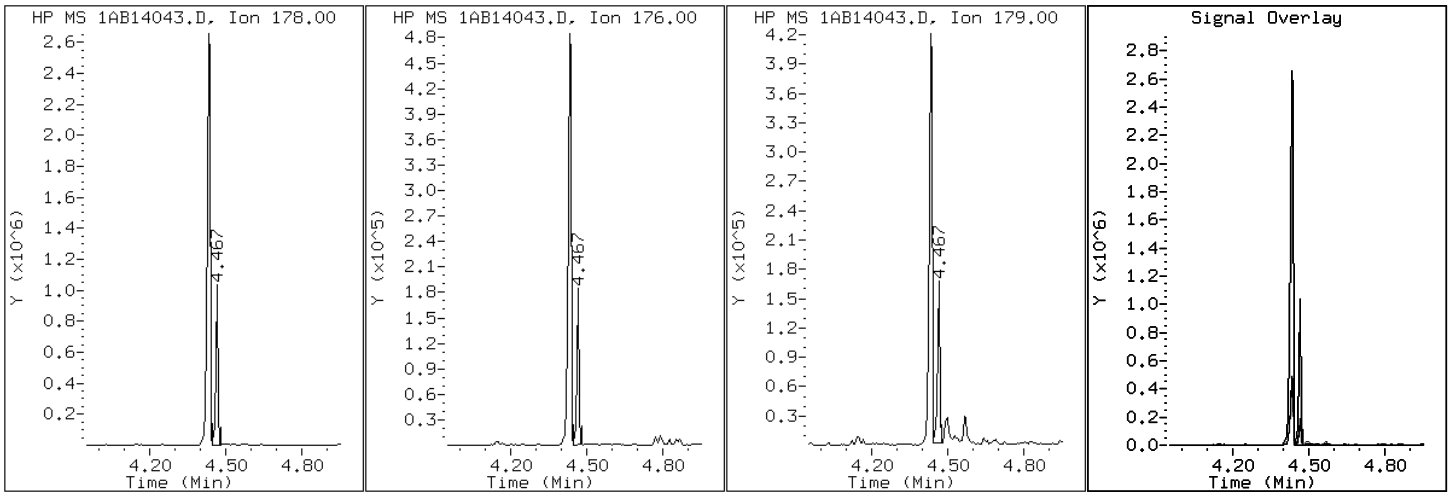
Client ID: FM0139A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-7-a

Operator: SCC

12 Anthracene



Data File: 1AB14043.D

Date: 14-FEB-2013 20:26

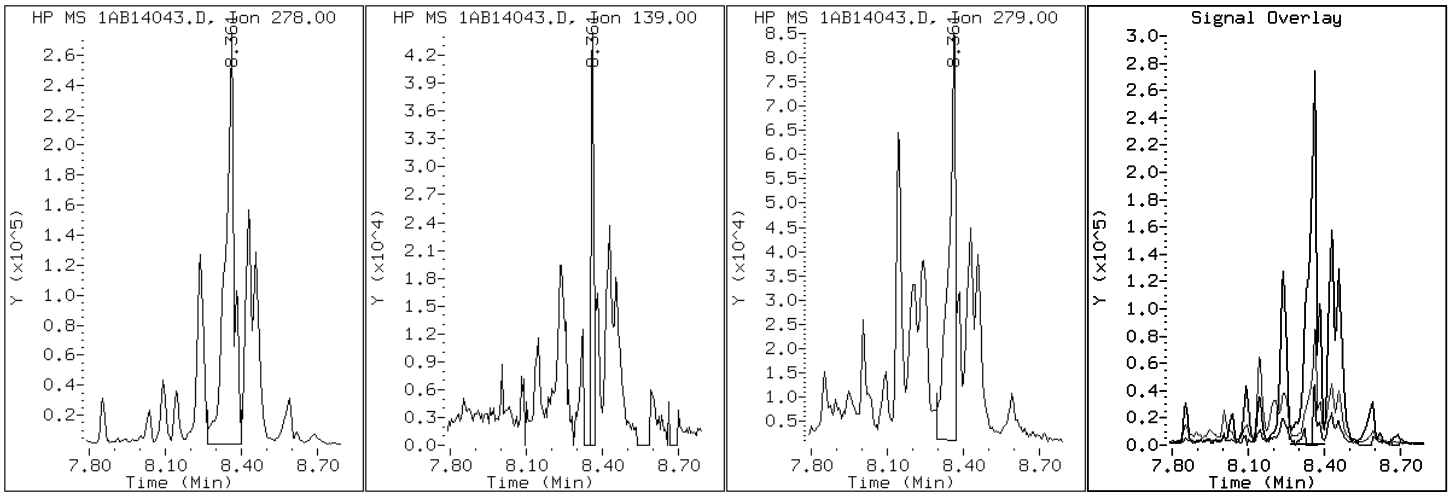
Client ID: FM0139A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-7-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14043.D

Date: 14-FEB-2013 20:26

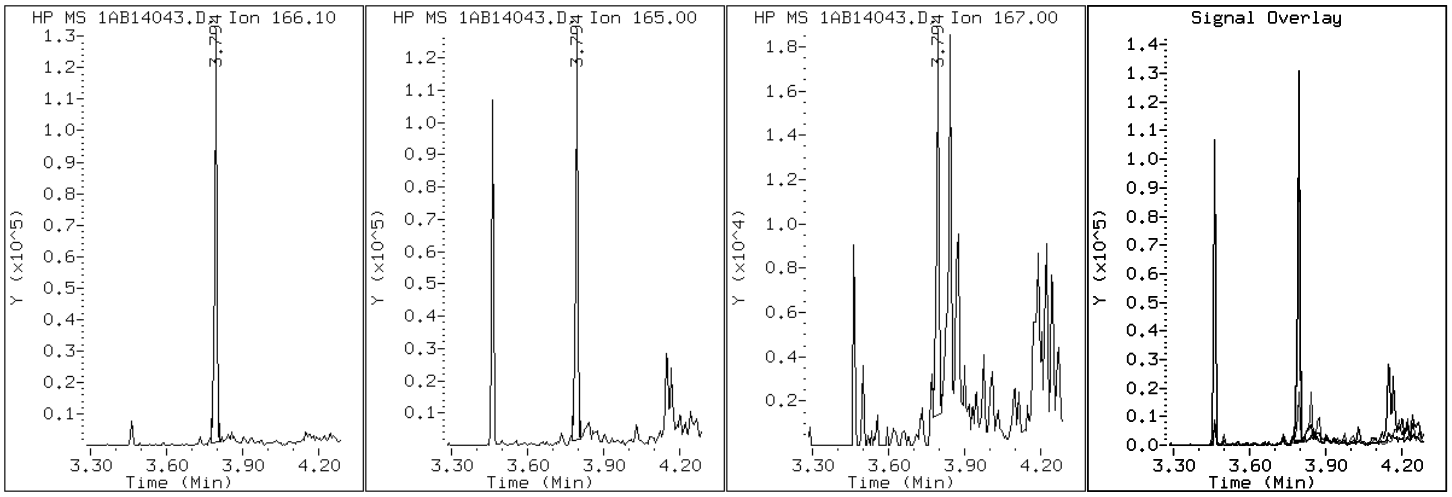
Client ID: FM0139A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-7-a

Operator: SCC

9 Fluorene



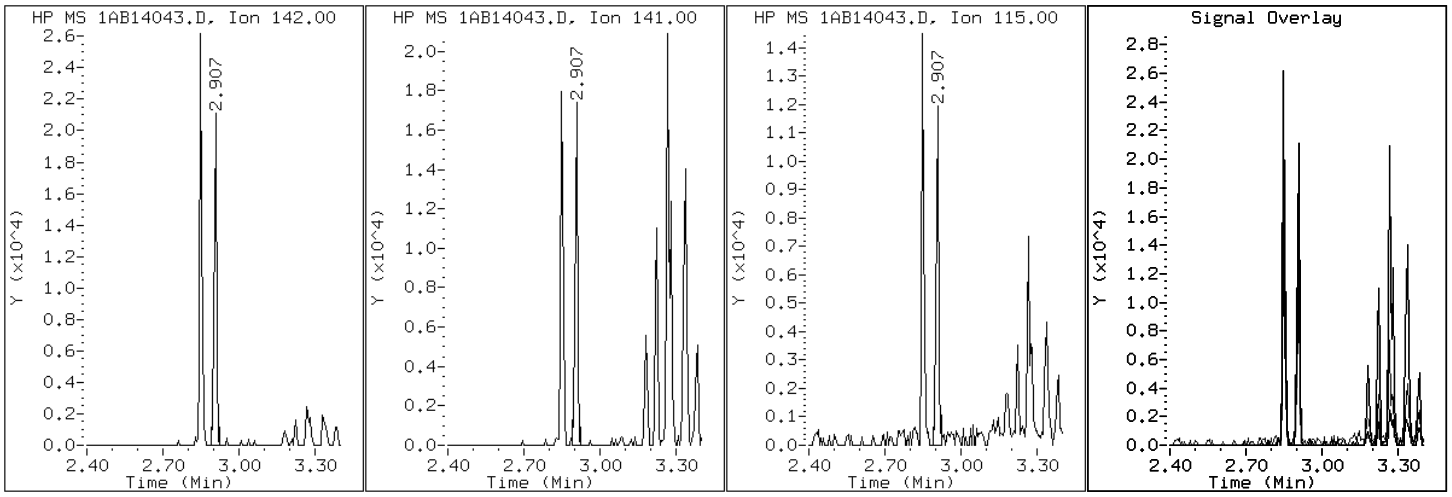
Data File: 1AB14043.D

Date: 14-FEB-2013 20:26

Client ID: FM0139A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-7-a Operator: SCC

4 1-Methylnaphthalene



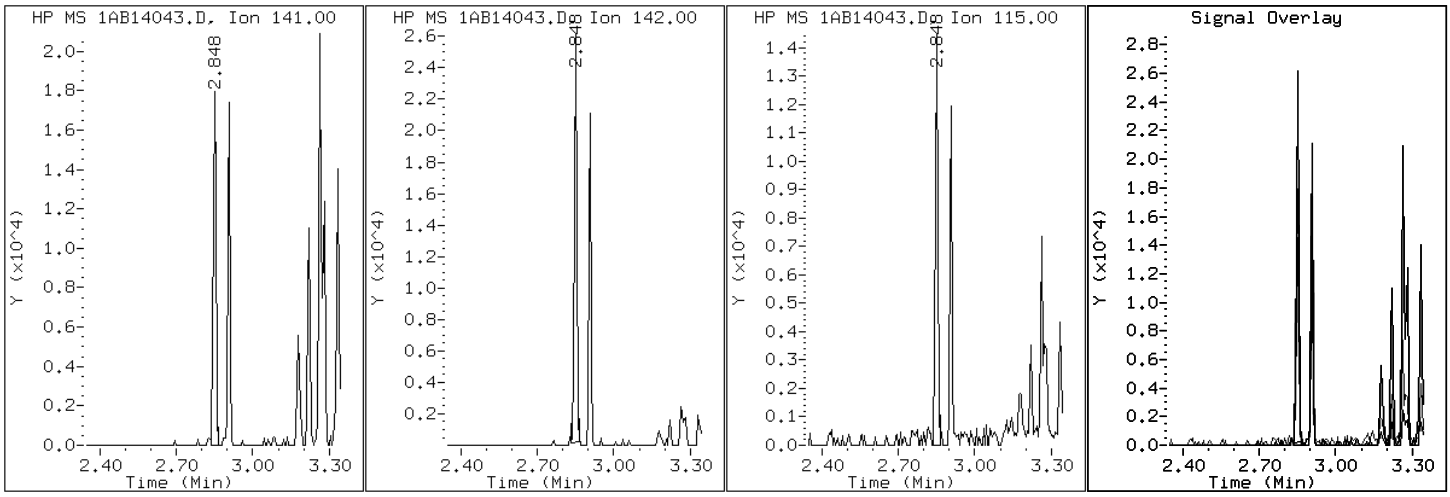
Data File: 1AB14043.D

Date: 14-FEB-2013 20:26

Client ID: FM0139A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-7-a Operator: SCC

3 2-Methylnaphthalene



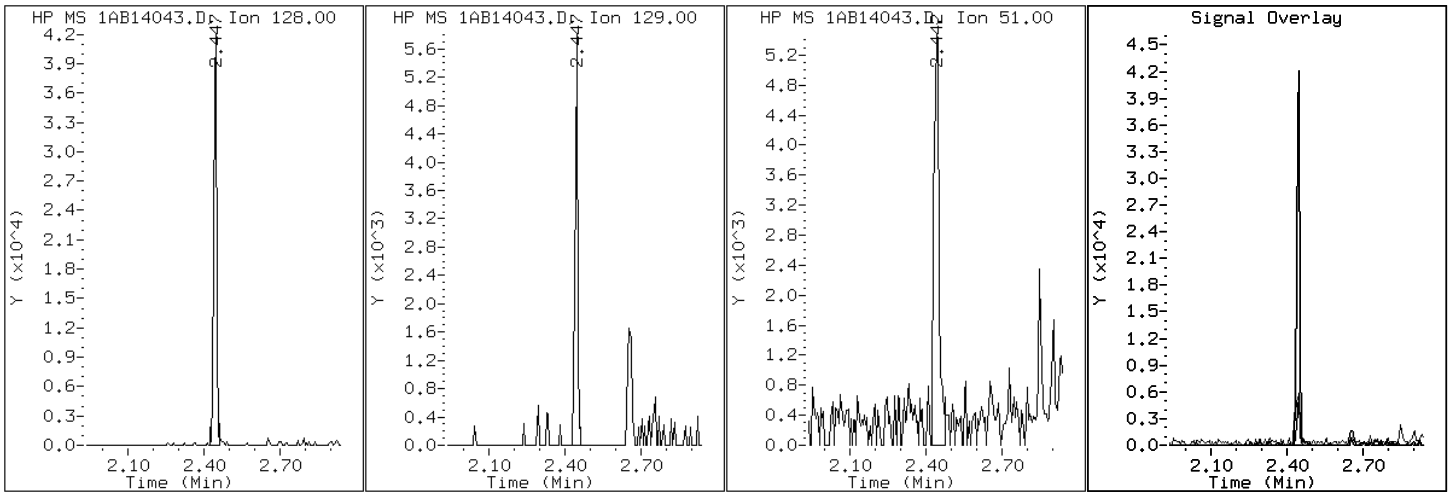
Data File: 1AB14043.D

Date: 14-FEB-2013 20:26

Client ID: FM0139A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-7-a Operator: SCC

2 Naphthalene



Manual Integration Report

Data File: 1AB14043.D
Inj. Date and Time: 14-FEB-2013 20:26
Instrument ID: BSMA5973.i
Client ID: FM0139A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/15/2013

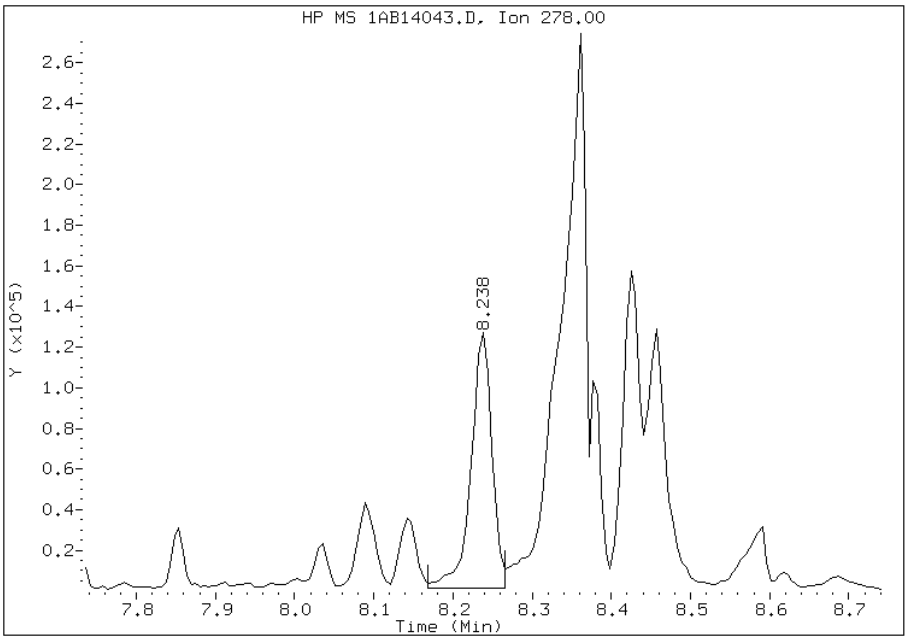
Processing Integration Results

RT: 8.24

Response: 228909

Amount: 14

Conc: 3669



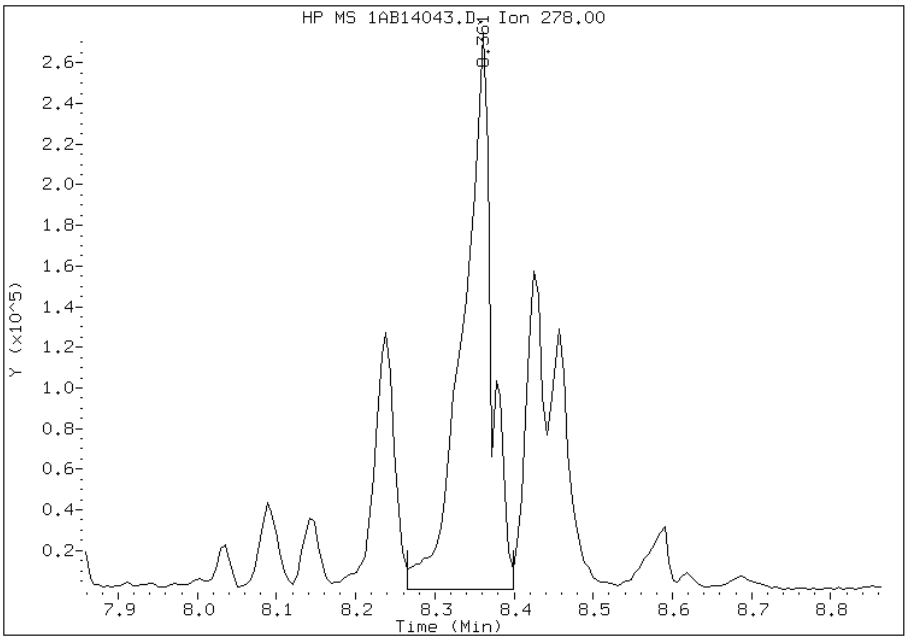
Manual Integration Results

RT: 8.36

Response: 690200

Amount: 41

Conc: 11062



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:57
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0139A-CS DL | Lab Sample ID: 680-87279-7 DL

Matrix: Solid | Lab File ID: 1CB15014.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 11:24

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.19(g) | Date Analyzed: 02/15/2013 15:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 40

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo[a]anthracene	47000		330	160
50-32-8	Benzo[a]pyrene	39000		420	210
205-99-2	Benzo[b]fluoranthene	55000		500	250
191-24-2	Benzo[g,h,i]perylene	19000		810	180
207-08-9	Benzo[k]fluoranthene	26000		330	150
218-01-9	Chrysene	40000		370	180
206-44-0	Fluoranthene	80000		810	160
193-39-5	Indeno[1,2,3-cd]pyrene	17000		810	290
85-01-8	Phenanthrene	28000		330	160
129-00-0	Pyrene	71000		810	150

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15014.D
Lab Smp Id: 680-87279-A-7-A Client Smp ID: FM0139A-CS
Inj Date : 15-FEB-2013 15:09
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87279-A-7-A
Misc Info : 680-87279-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 14
Dil Factor: 40.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	40.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	3.009	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.822	3.821	(1.000)	1862368	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.910	(1.000)	1440290	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	2715525	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	7783	0.19561	531.0798
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	2864538	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2749680	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	9441	0.19131	519.3976(Q)
3 2-Methylnaphthalene	142	4.263	4.257	(1.115)	4104	0.12790	347.2372
4 1-Methylnaphthalene	142	4.322	4.321	(1.131)	3906	0.13384	363.3750
7 Acenaphthene	154	4.927	4.927	(1.005)	21454	0.59697	1620.7758
9 Fluorene	166	5.245	5.245	(1.070)	28170	0.61063	1657.8817
11 Phenanthrene	178	5.874	5.880	(1.002)	844506	10.4187	28286.9673
12 Anthracene	178	5.910	5.910	(1.008)	240299	3.29044	8933.5884
13 Carbazole	167	6.016	6.015	(1.026)	54214	0.85464	2320.3598

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.716	6.721	(1.145)	2345971	29.6195	80417.3961
16 Pyrene	202	6.886	6.886	(0.882)	1999462	26.2187	71184.0436
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	1365308	17.2838	46925.6941
19 Chrysene	228	7.827	7.833	(1.002)	1197209	14.6724	39835.6655
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	1371723	20.3480	55245.0697(M)
21 Benzo(k)fluoranthene	252	8.680	8.698	(0.961)	704790	9.48995	25765.3380(M)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	911203	14.2048	38566.2901
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	379420	6.15819	16719.5742(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.280	(1.136)	131473	2.26282	6143.5822
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	444532	7.10277	19284.1129

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB15014.D

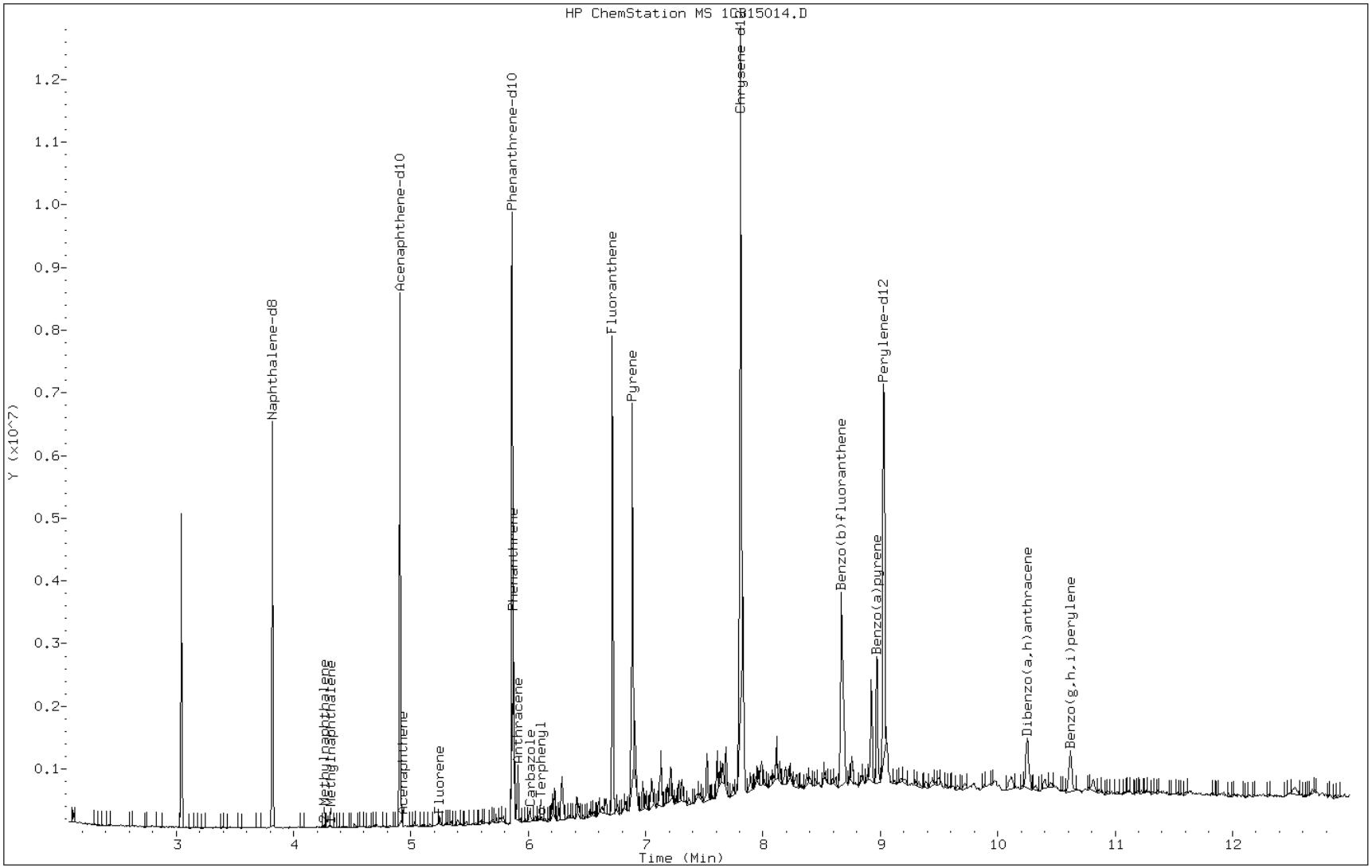
Date: 15-FEB-2013 15:09

Client ID: FM0139A-CS

Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A

Operator: SCC



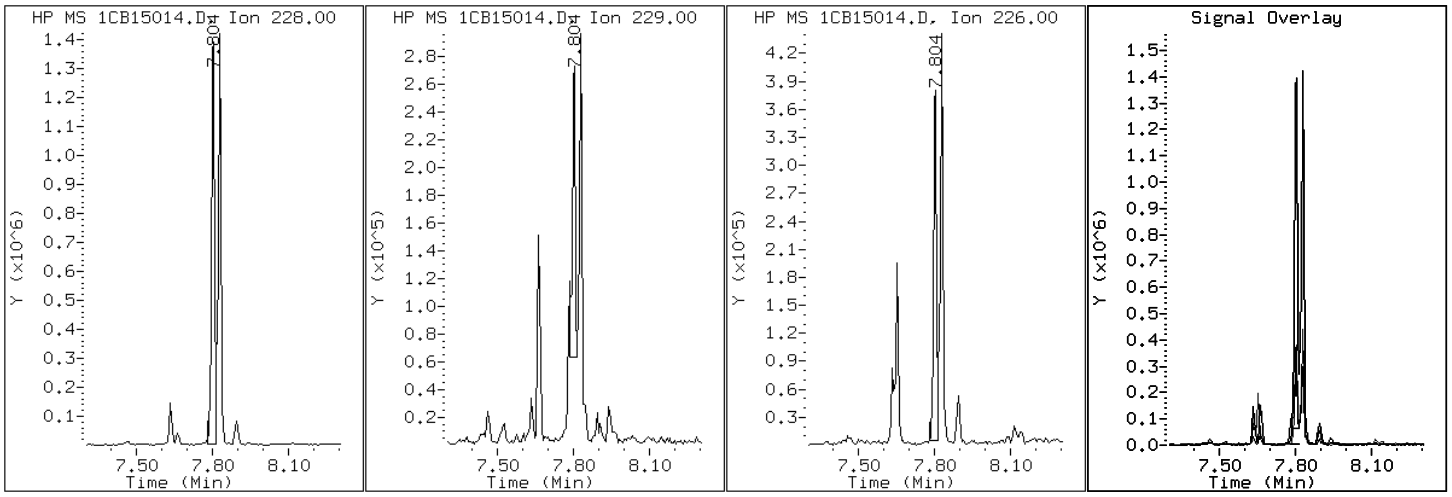
Data File: 1CB15014.D

Date: 15-FEB-2013 15:09

Client ID: FM0139A-CS | Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A | Operator: SCC

17 Benzo(a)anthracene



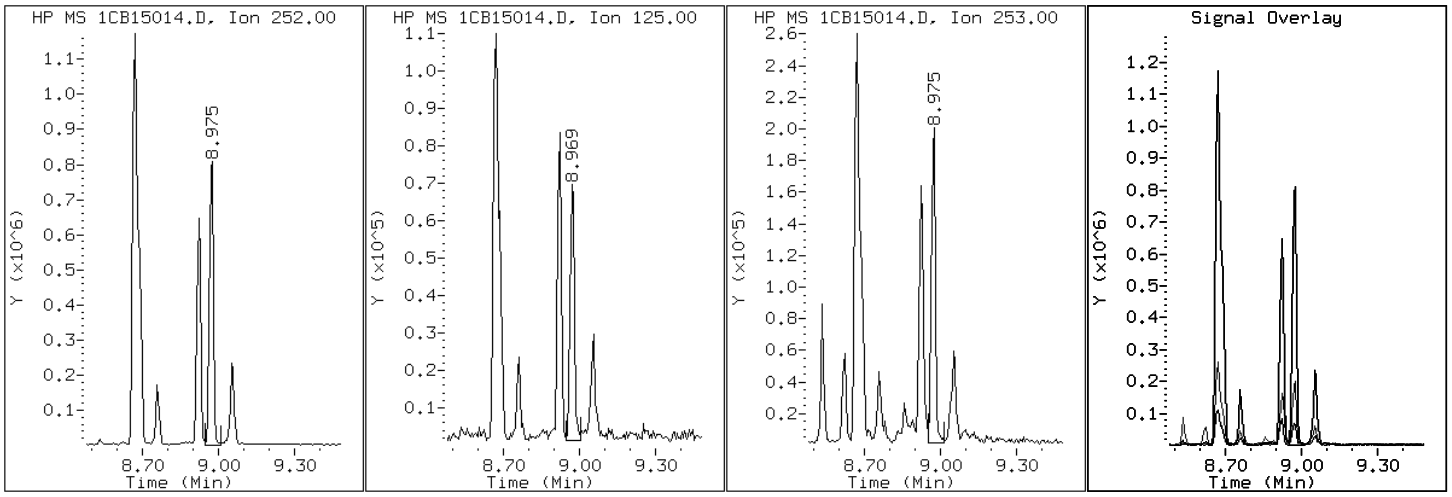
Data File: 1CB15014.D

Date: 15-FEB-2013 15:09

Client ID: FM0139A-CS | Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A | Operator: SCC

22 Benzo(a)pyrene



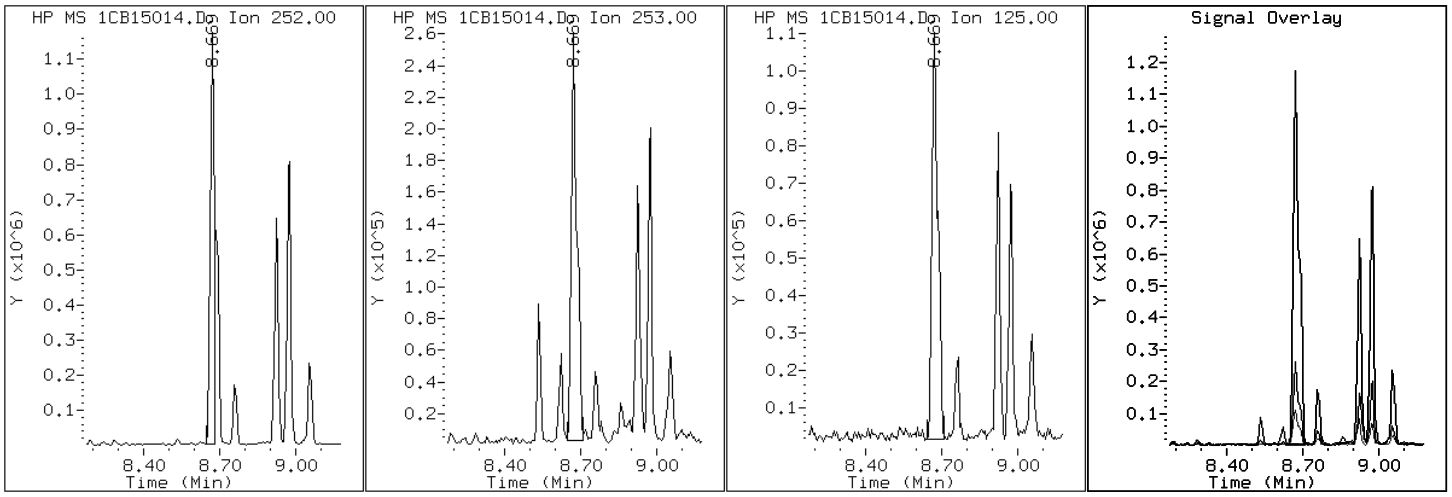
Data File: 1CB15014.D

Date: 15-FEB-2013 15:09

Client ID: FM0139A-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A Operator: SCC

20 Benzo(b)fluoranthene



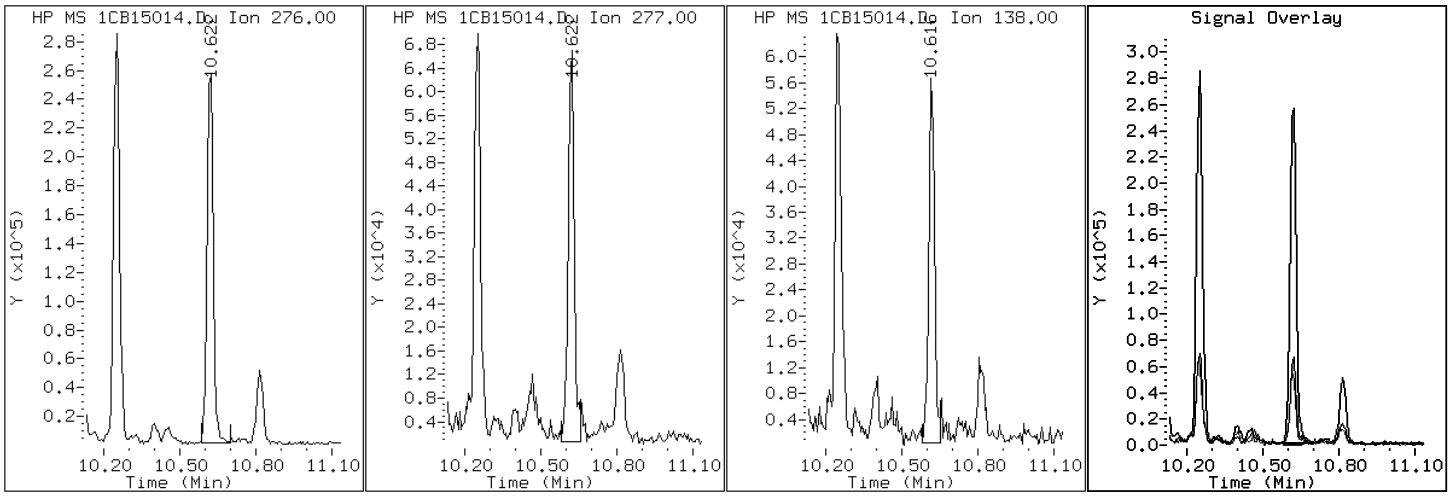
Data File: 1CB15014.D

Date: 15-FEB-2013 15:09

Client ID: FM0139A-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB15014.D

Date: 15-FEB-2013 15:09

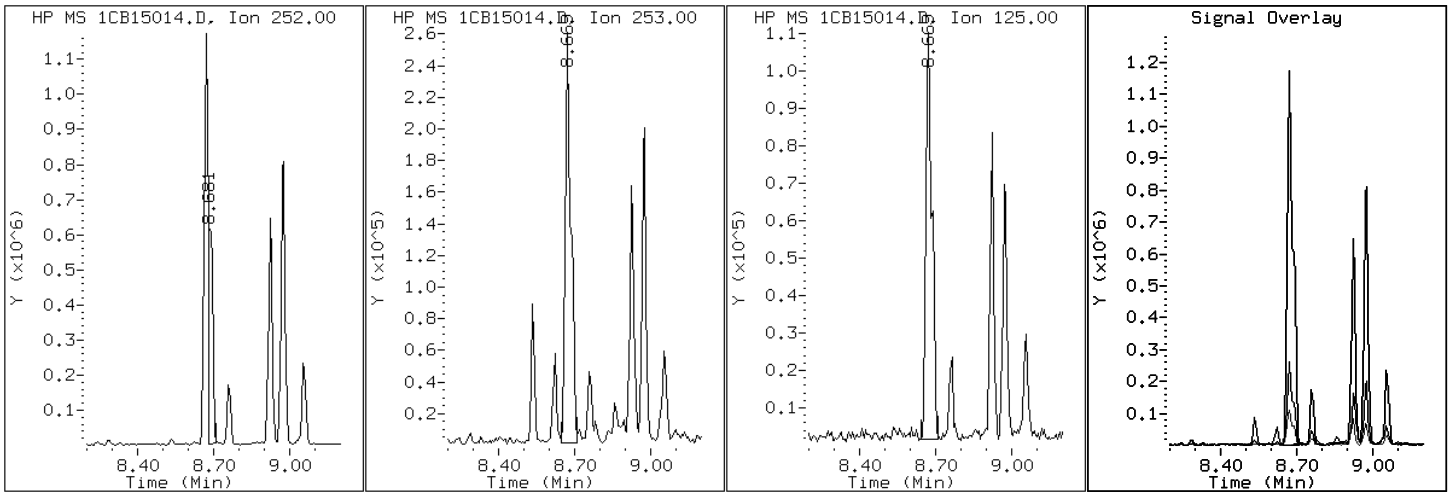
Client ID: FM0139A-CS

Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CB15014.D

Date: 15-FEB-2013 15:09

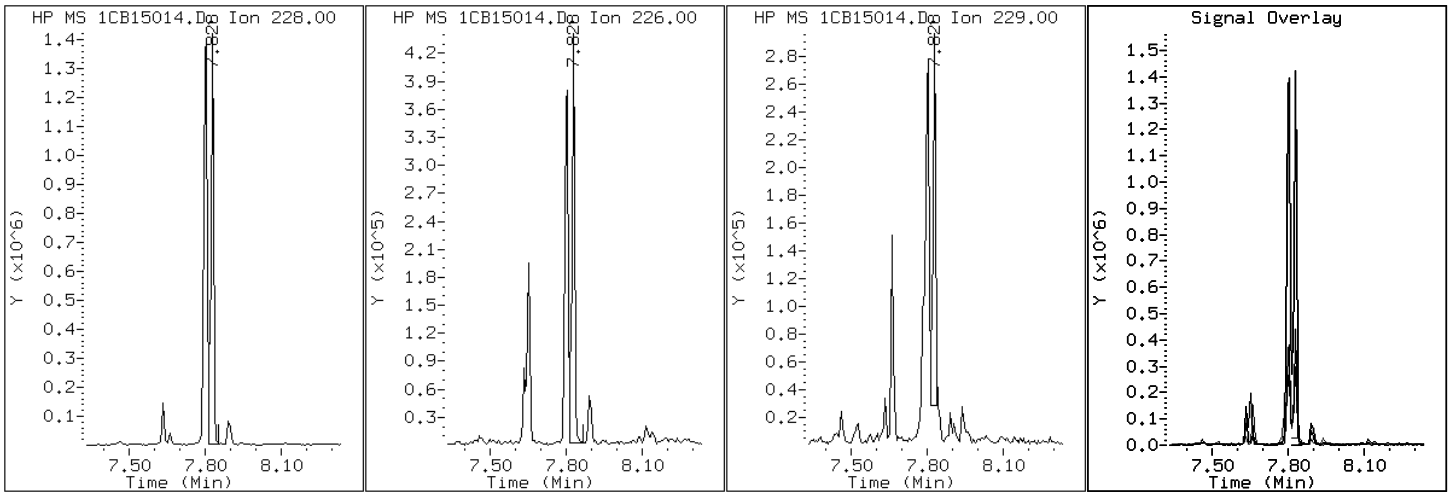
Client ID: FM0139A-CS

Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A

Operator: SCC

19 Chrysene



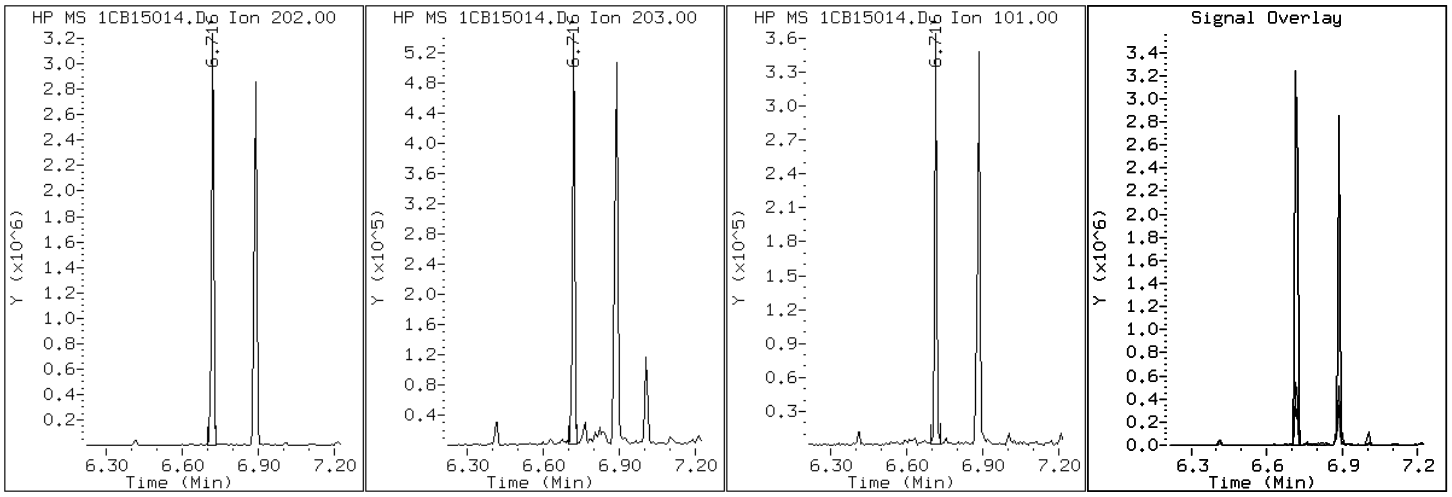
Data File: 1CB15014.D

Date: 15-FEB-2013 15:09

Client ID: FM0139A-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A Operator: SCC

15 Fluoranthene



Data File: 1CB15014.D

Date: 15-FEB-2013 15:09

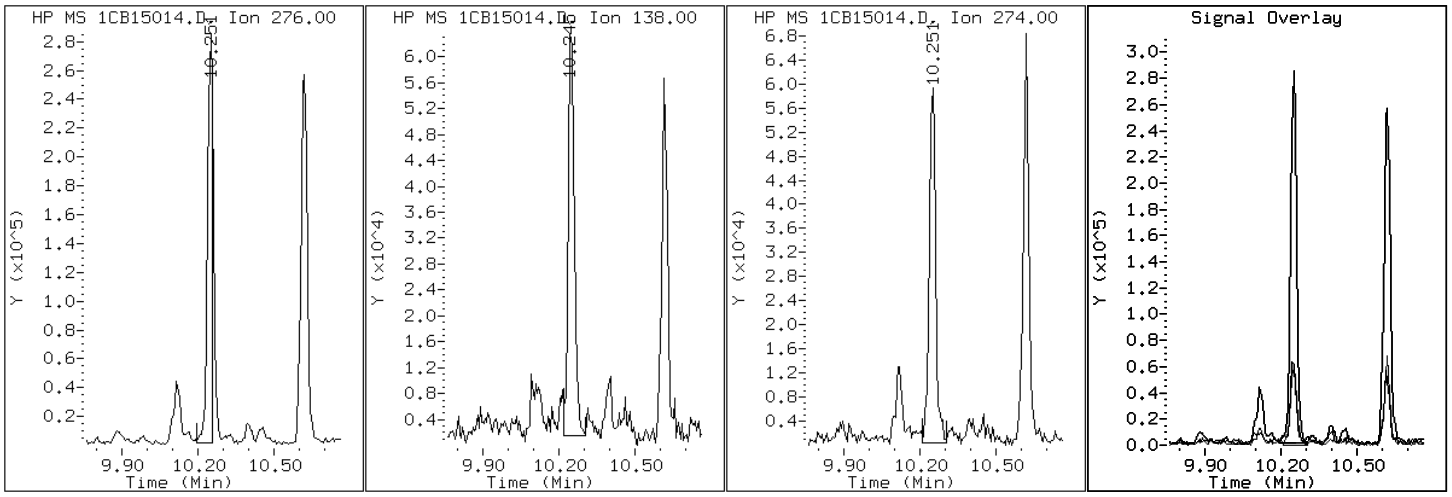
Client ID: FM0139A-CS

Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



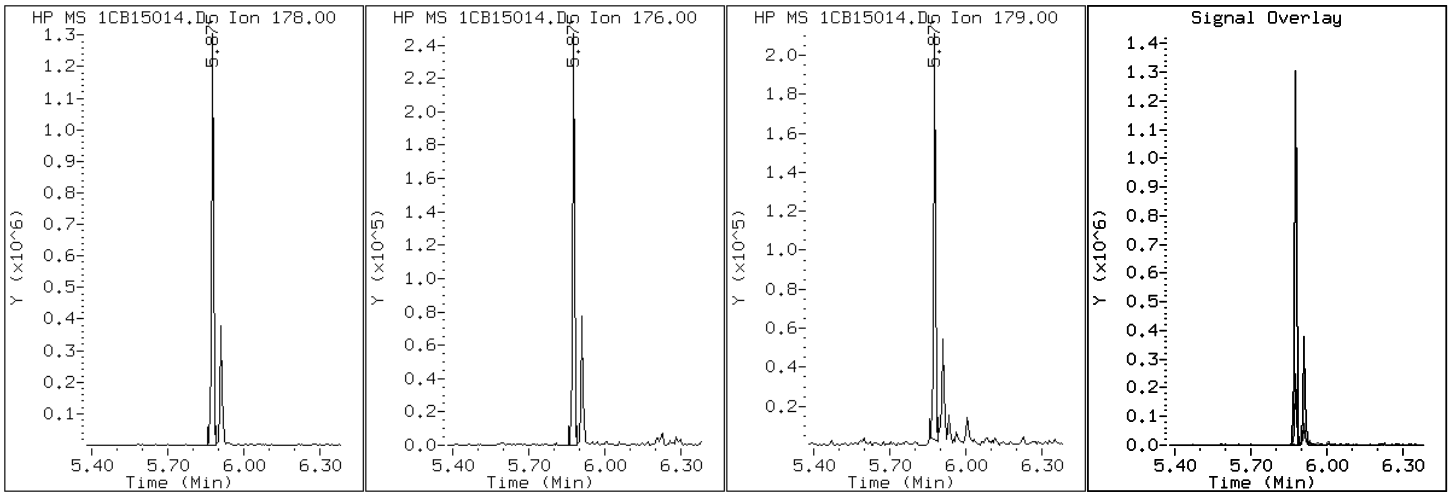
Data File: 1CB15014.D

Date: 15-FEB-2013 15:09

Client ID: FM0139A-CS | Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A | Operator: SCC

11 Phenanthrene



Data File: 1CB15014.D

Date: 15-FEB-2013 15:09

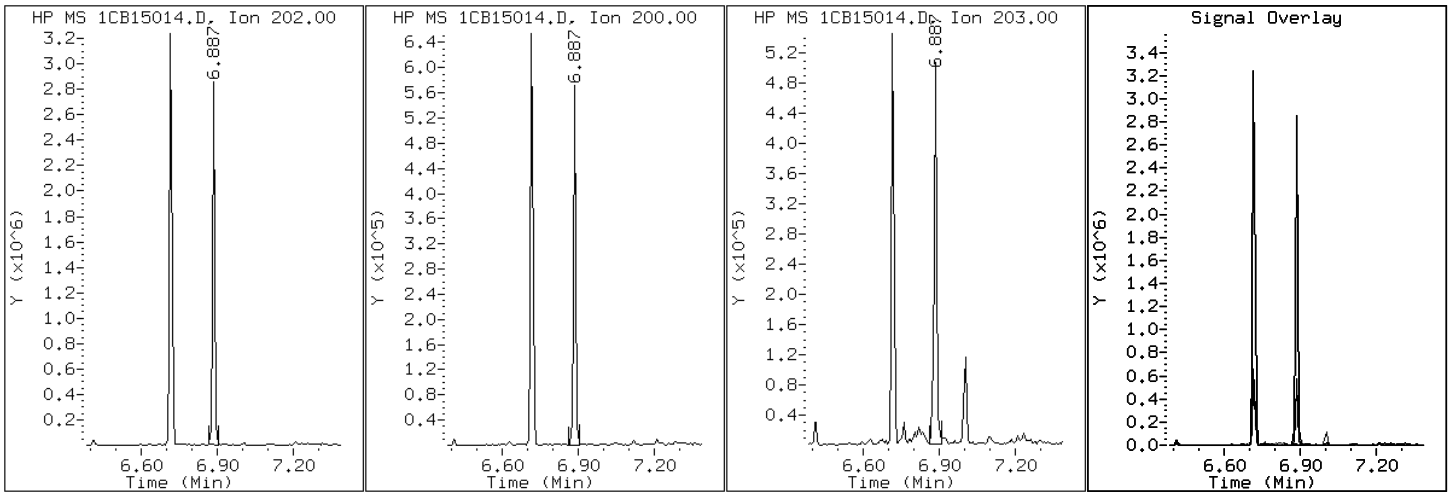
Client ID: FM0139A-CS

Instrument: BSMC5973.i

Sample Info: 680-87279-A-7-A

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15014.D
Inj. Date and Time: 15-FEB-2013 15:09
Instrument ID: BSMC5973.i
Client ID: FM0139A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

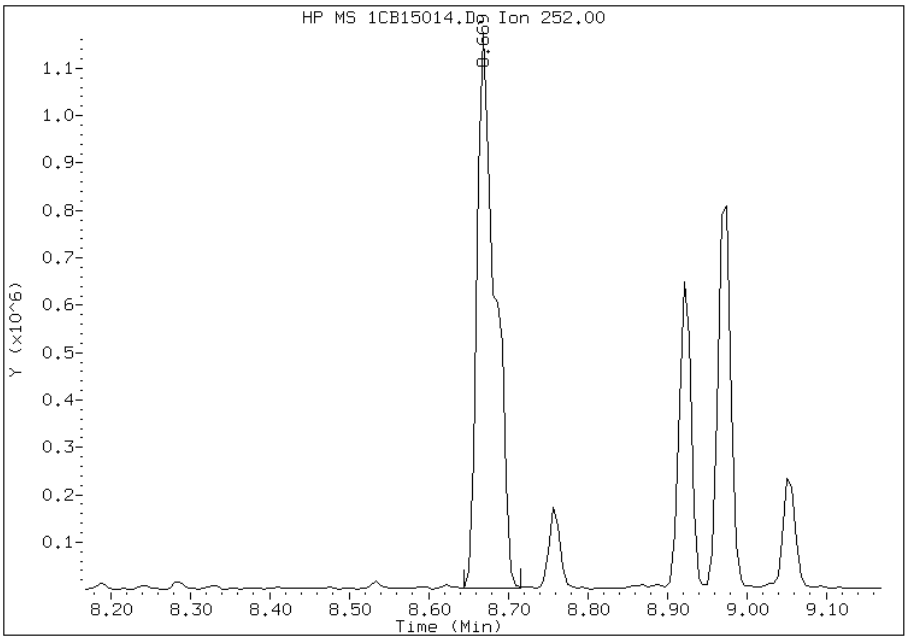
Processing Integration Results

RT: 8.67

Response: 1862306

Amount: 28

Conc: 75003



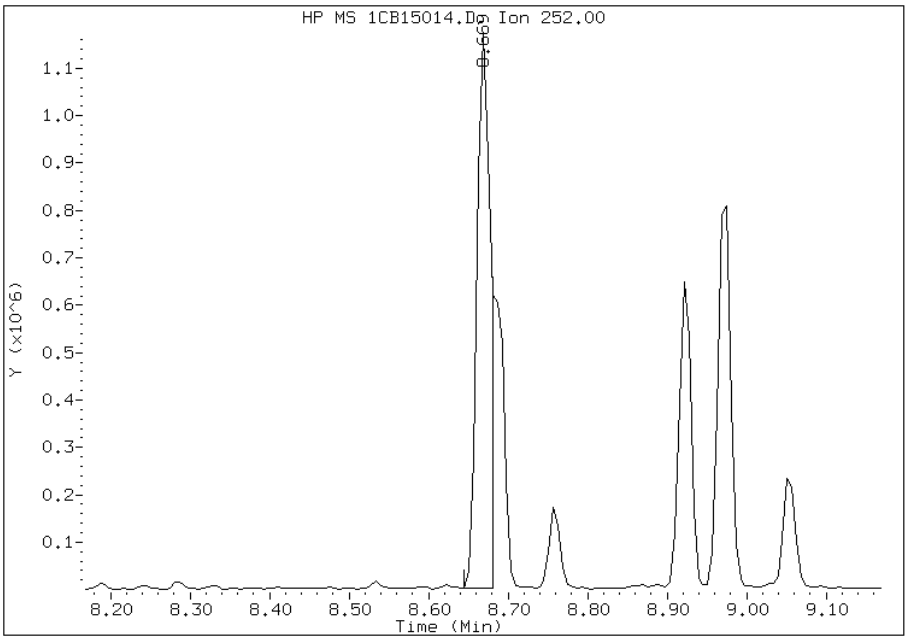
Manual Integration Results

RT: 8.67

Response: 1371723

Amount: 20

Conc: 55245



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 16:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15014.D
Inj. Date and Time: 15-FEB-2013 15:09
Instrument ID: BSMC5973.i
Client ID: FM0139A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

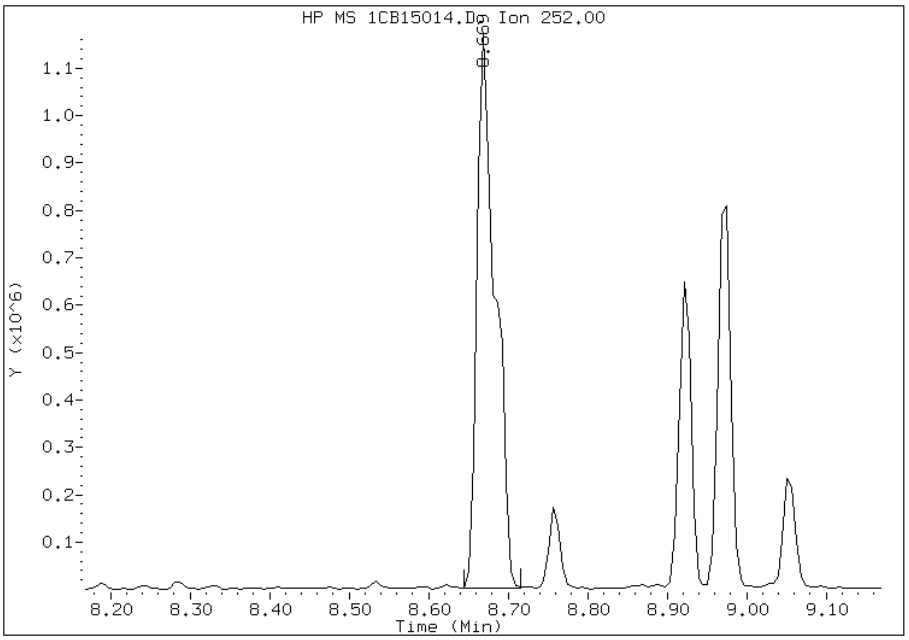
Processing Integration Results

RT: 8.67

Response: 1866213

Amount: 25

Conc: 68224



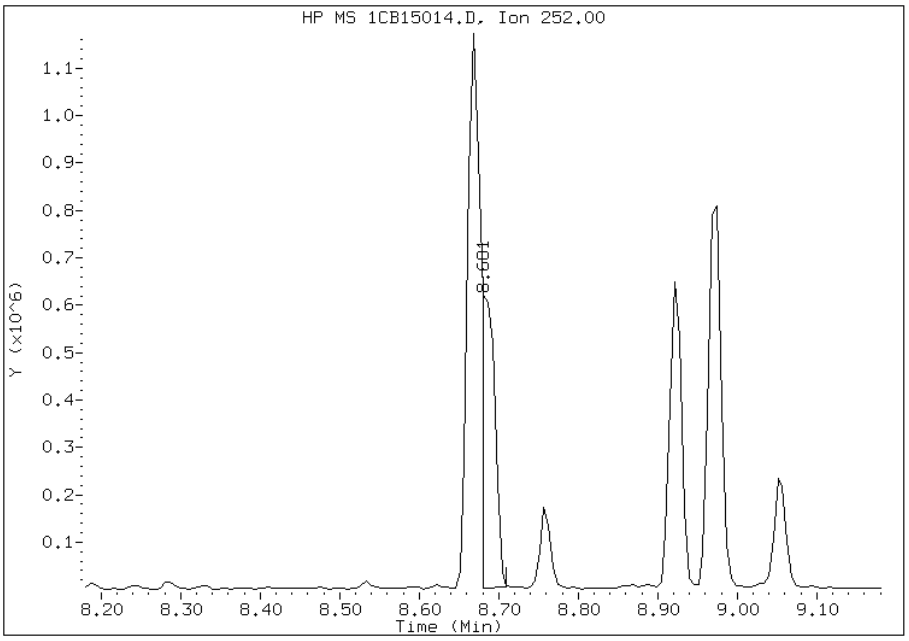
Manual Integration Results

RT: 8.68

Response: 704790

Amount: 9

Conc: 25765



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 16:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15014.D
Inj. Date and Time: 15-FEB-2013 15:09
Instrument ID: BSMC5973.i
Client ID: FM0139A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

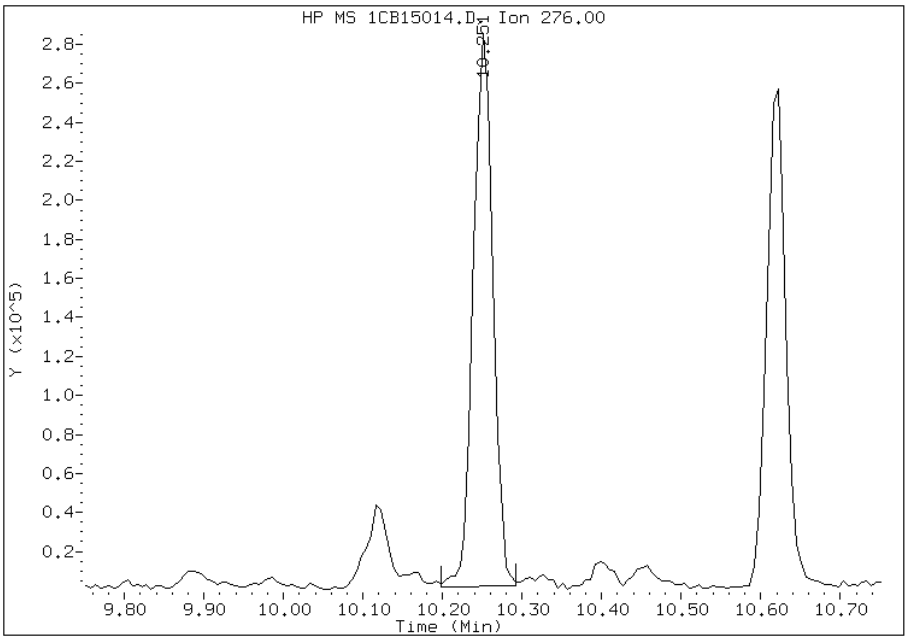
Processing Integration Results

RT: 10.25

Response: 481737

Amount: 8

Conc: 21228



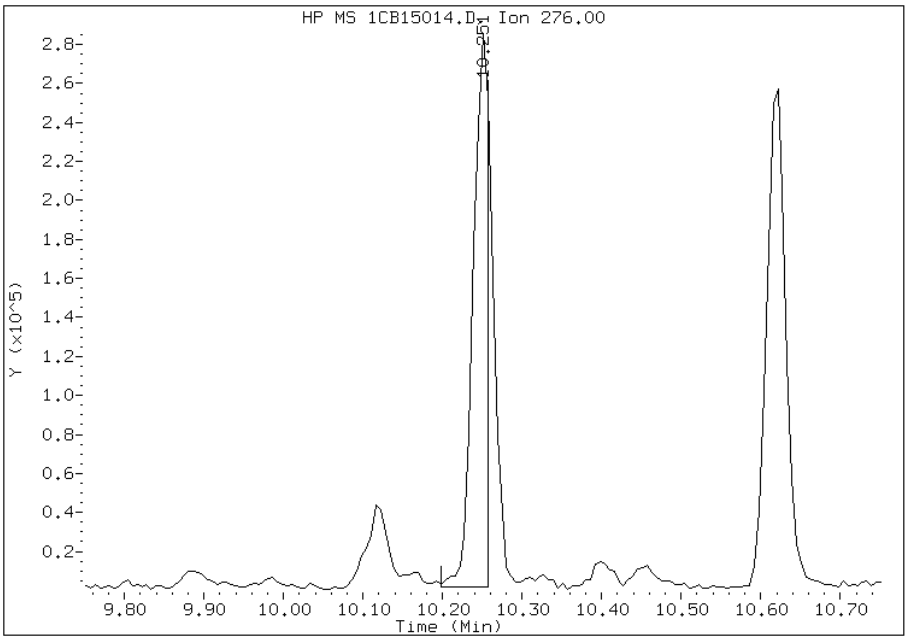
Manual Integration Results

RT: 10.25

Response: 379420

Amount: 6

Conc: 16720



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 16:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0139B-CS | Lab Sample ID: 680-87279-8

Matrix: Solid | Lab File ID: 1AB14044.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 11:30

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.31(g) | Date Analyzed: 02/14/2013 20:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	8.3	J	44	5.6
120-12-7	Anthracene	9.4		9.3	4.7
56-55-3	Benzo[a]anthracene	35		8.9	4.3
50-32-8	Benzo[a]pyrene	20		12	5.8
205-99-2	Benzo[b]fluoranthene	29		14	6.8
191-24-2	Benzo[g,h,i]perylene	18	J	22	4.9
207-08-9	Benzo[k]fluoranthene	15		8.9	4.0
218-01-9	Chrysene	34		10	5.0
53-70-3	Dibenz(a,h)anthracene	12	J	22	4.6
206-44-0	Fluoranthene	44		22	4.4
86-73-7	Fluorene	5.8	J	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	15	J	22	7.9
90-12-0	1-Methylnaphthalene	15	J	44	4.9
91-57-6	2-Methylnaphthalene	19	J	44	7.9
91-20-3	Naphthalene	16	J	44	4.9
85-01-8	Phenanthrene	34		8.9	4.3
129-00-0	Pyrene	33		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14044.D
Lab Smp Id: 680-87279-A-8-A Client Smp ID: FM0139B-CS
Inj Date : 14-FEB-2013 20:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-8-a
Misc Info : 680-87279-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 44
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.310	Weight Extracted
M	11.765	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.435	2.430	(1.000)	872683	40.0000	
* 6 Acenaphthene-d10	164	3.466	3.461	(1.000)	540681	40.0000	
* 10 Phenanthrene-d10	188	4.411	4.402	(1.000)	725187	40.0000	
$ 14 o-Terphenyl	230	4.689	4.685	(1.063)	79069	7.50369	555.4656
* 18 Chrysene-d12	240	6.441	6.426	(1.000)	573959	40.0000	
* 23 Perylene-d12	264	7.542	7.527	(1.000)	655193	40.0000	
2 Naphthalene	128	2.445	2.441	(1.004)	4488	0.21188	15.6843(Q)
3 2-Methylnaphthalene	141	2.851	2.847	(1.171)	2914	0.25679	19.0092(H)
4 1-Methylnaphthalene	142	2.905	2.900	(1.193)	2521	0.19626	14.5279
5 Acenaphthylene	152	3.380	3.371	(0.975)	2678	0.11217	8.3036
9 Fluorene	166	3.792	3.787	(1.094)	1272	0.07829	5.7953
11 Phenanthrene	178	4.422	4.418	(1.002)	9105	0.45983	34.0394
12 Anthracene	178	4.459	4.455	(1.011)	2570	0.12730	9.4237
13 Carbazole	167	4.620	4.610	(1.047)	1542	0.08911	6.5962

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.293	5.283	(1.200)	11685	0.59523	44.0620
16 Pyrene	202	5.458	5.454	(0.847)	9112	0.43959	32.5407
17 Benzo(a)anthracene	228	6.431	6.416	(0.998)	8050	0.46973	34.7718
19 Chrysene	228	6.452	6.448	(1.002)	7683	0.45994	34.0472(H)
20 Benzo(b)fluoranthene	252	7.253	7.244	(0.962)	7078	0.38706	28.6523(M)
21 Benzo(k)fluoranthene	252	7.269	7.265	(0.964)	3779	0.19765	14.6314(Q)
22 Benzo(a)pyrene	252	7.488	7.479	(0.993)	4639	0.26714	19.7754
24 Indeno(1,2,3-cd)pyrene	276	8.279	8.275	(1.098)	2742	0.19997	14.8029(M)
25 Dibenzo(a,h)anthracene	278	8.295	8.291	(1.100)	2280	0.16633	12.3123
26 Benzo(g,h,i)perylene	276	8.498	8.494	(1.127)	3494	0.24596	18.2072

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14044.D

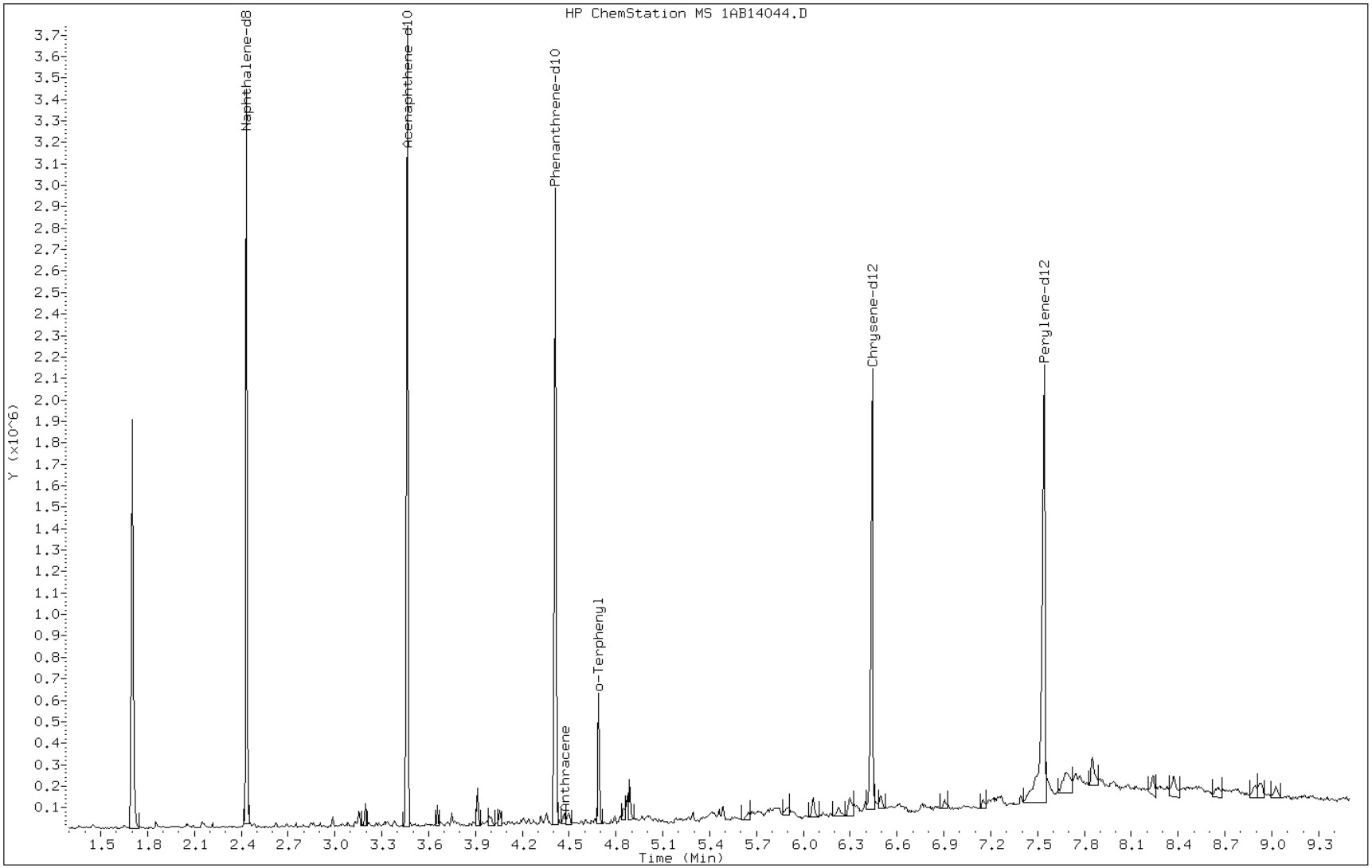
Date: 14-FEB-2013 20:41

Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC



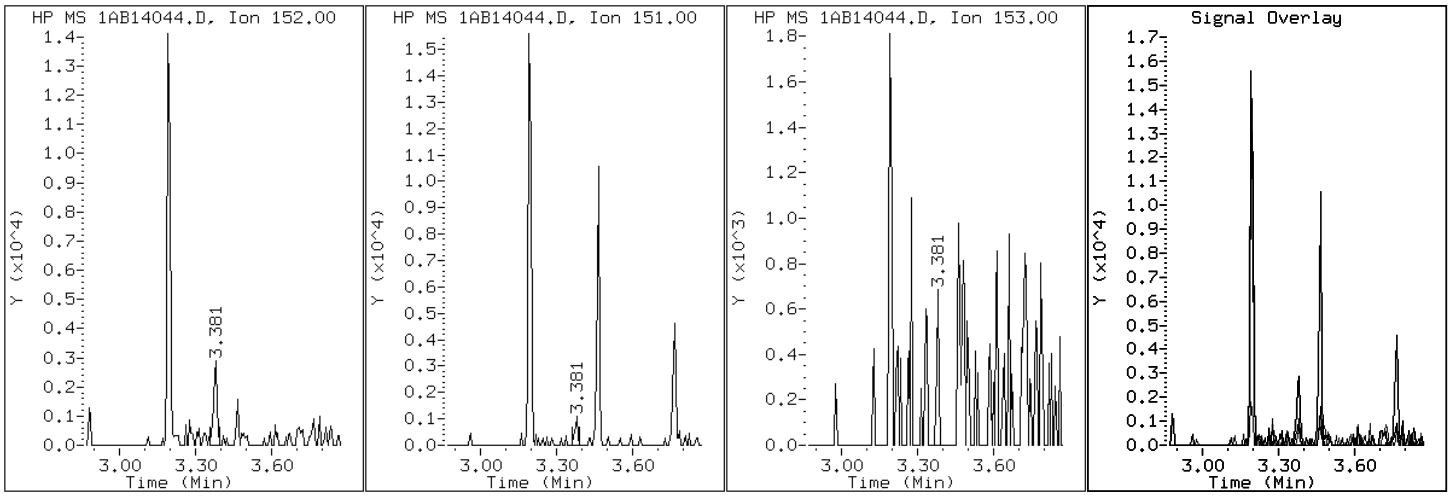
Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

Client ID: FM0139B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a Operator: SCC

5 Acenaphthylene



Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

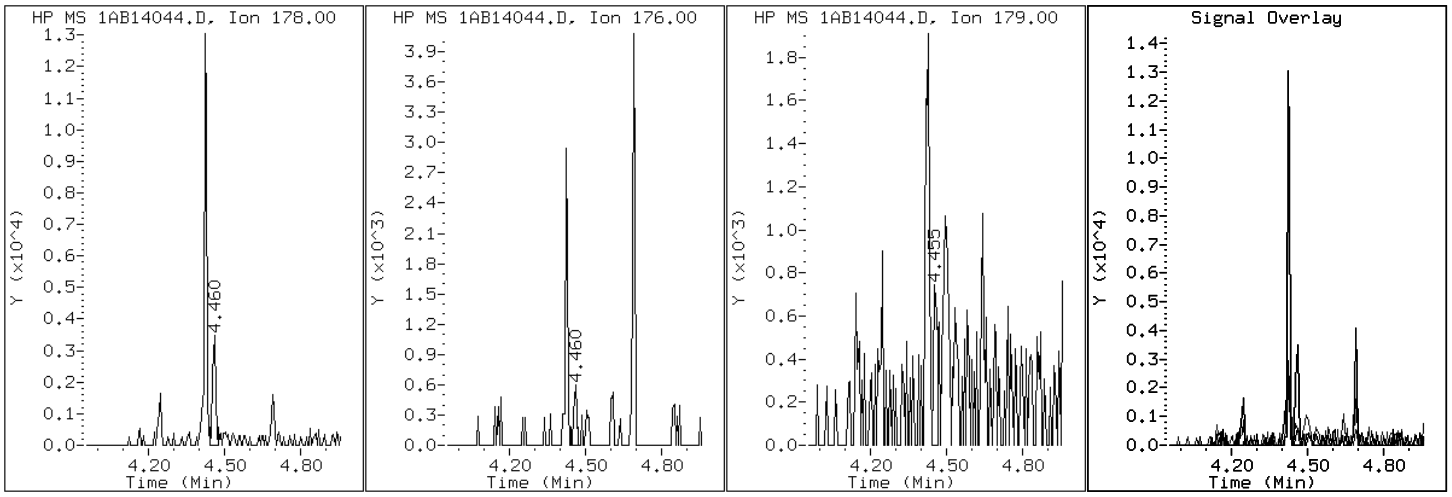
Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC

12 Anthracene



Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

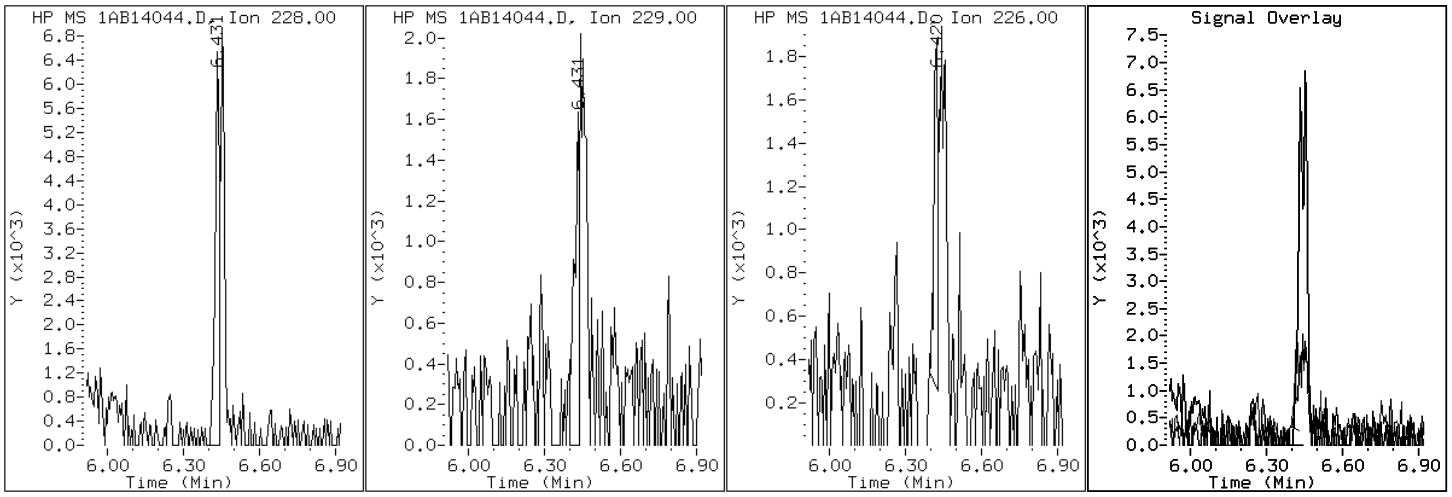
Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC

17 Benzo(a)anthracene



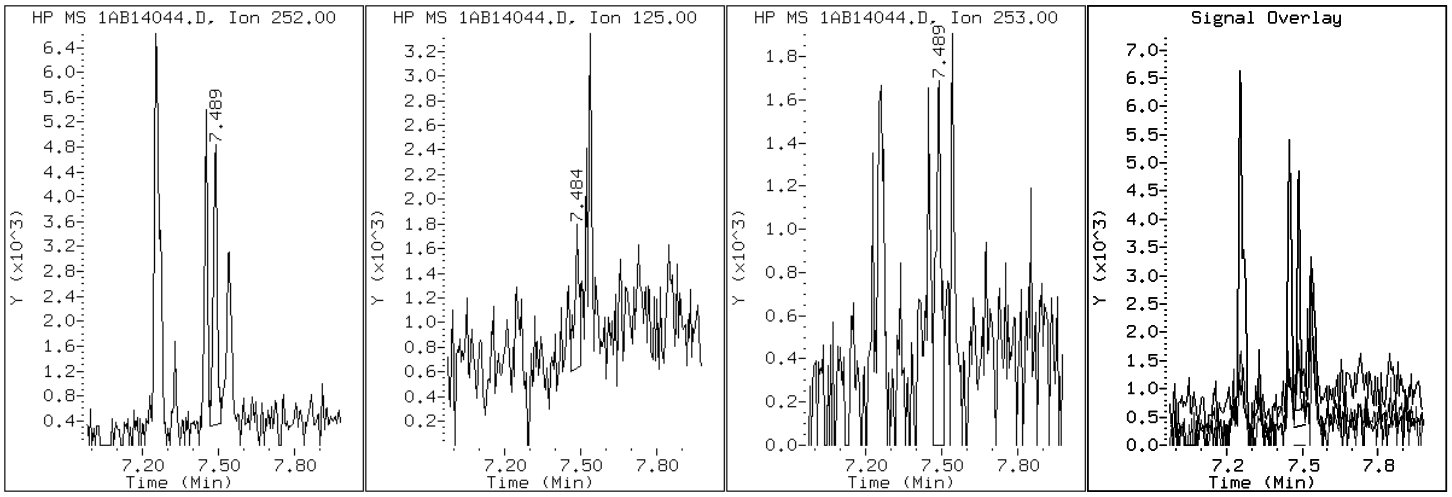
Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

Client ID: FM0139B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a Operator: SCC

22 Benzo(a)pyrene



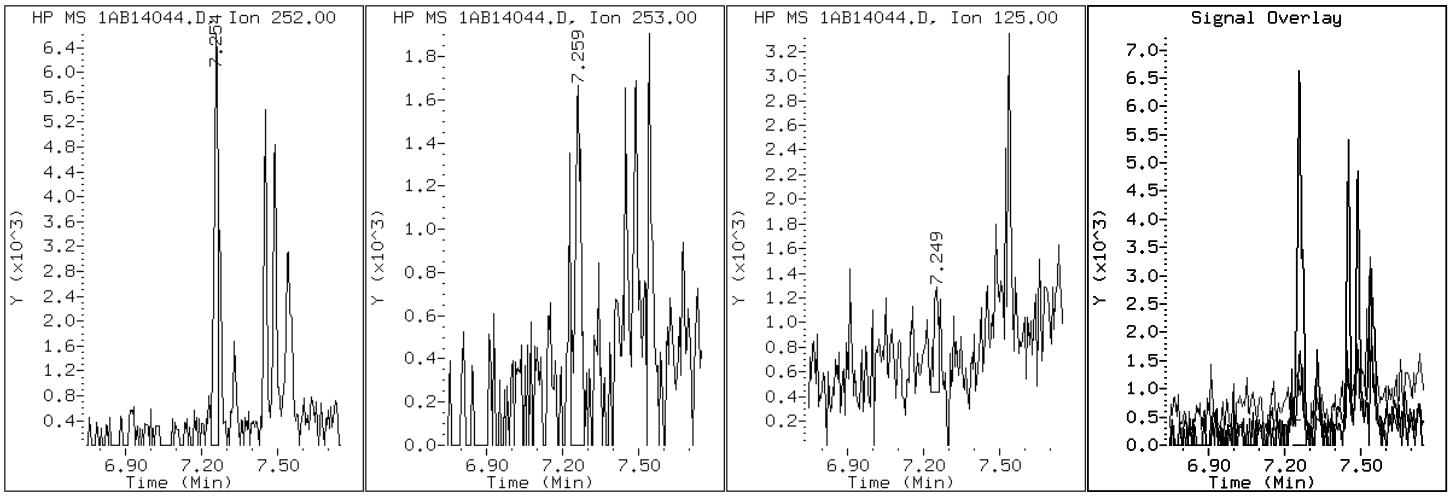
Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

Client ID: FM0139B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

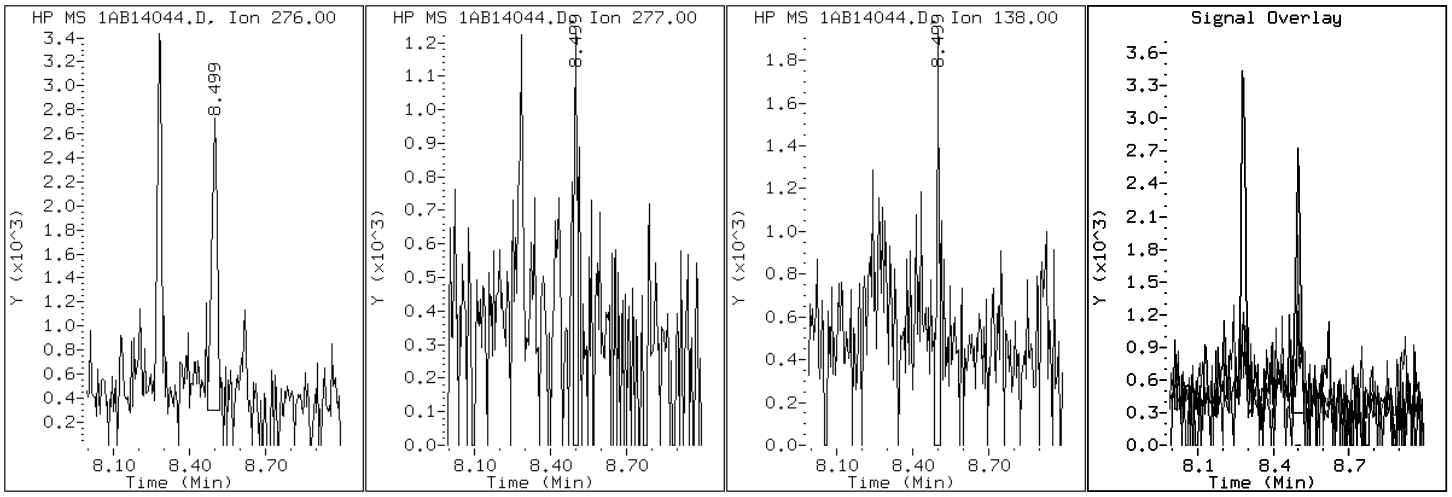
Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

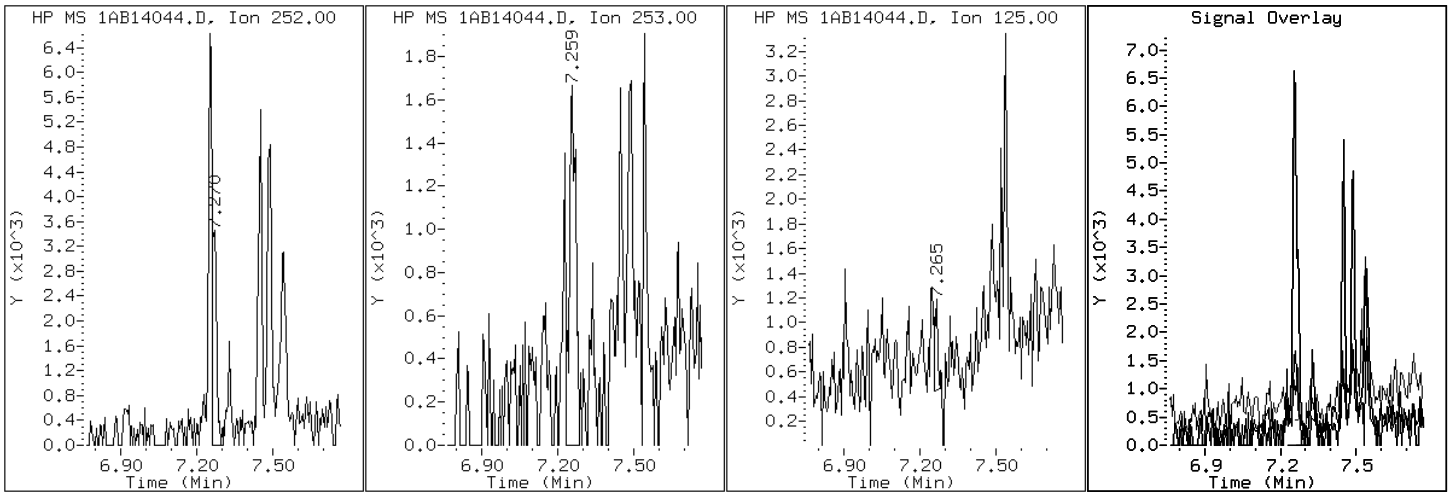
Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

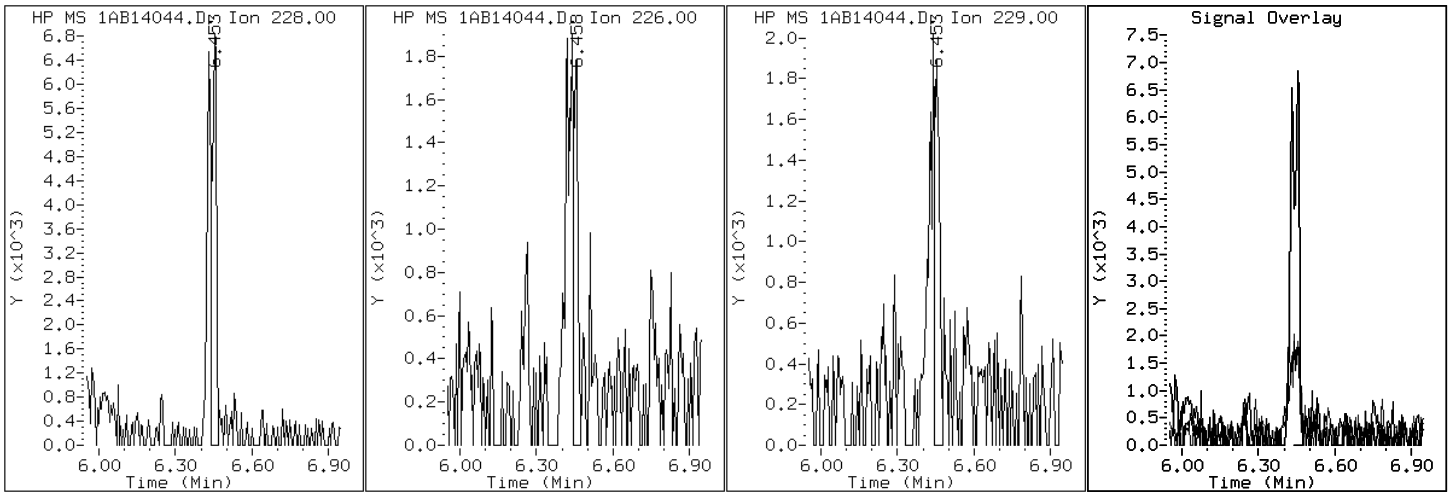
Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC

19 Chrysene



Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

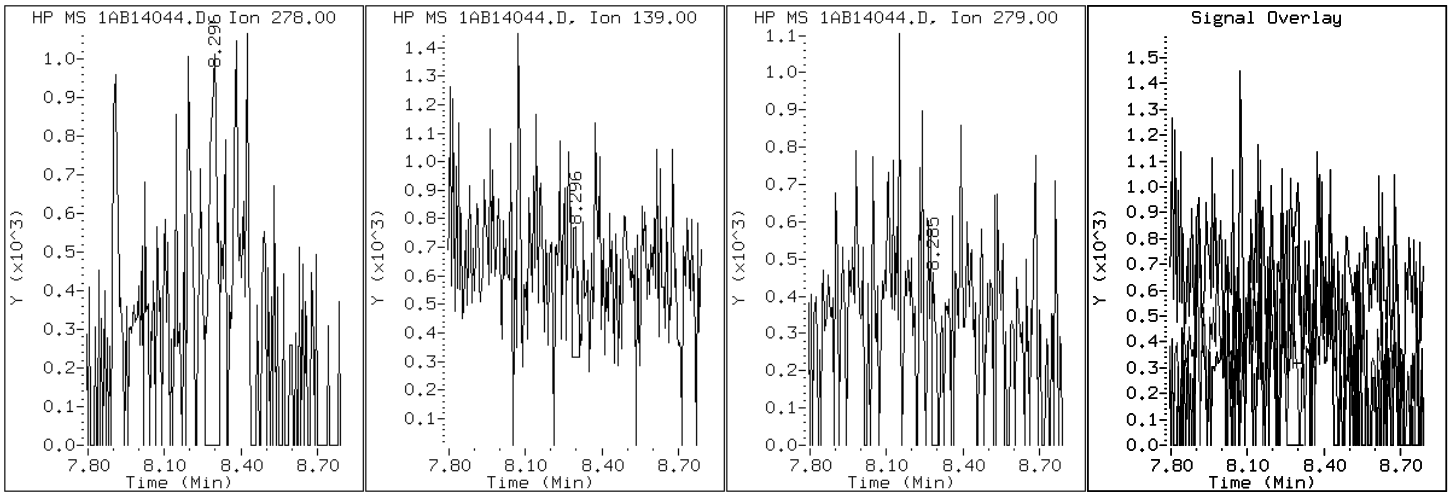
Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

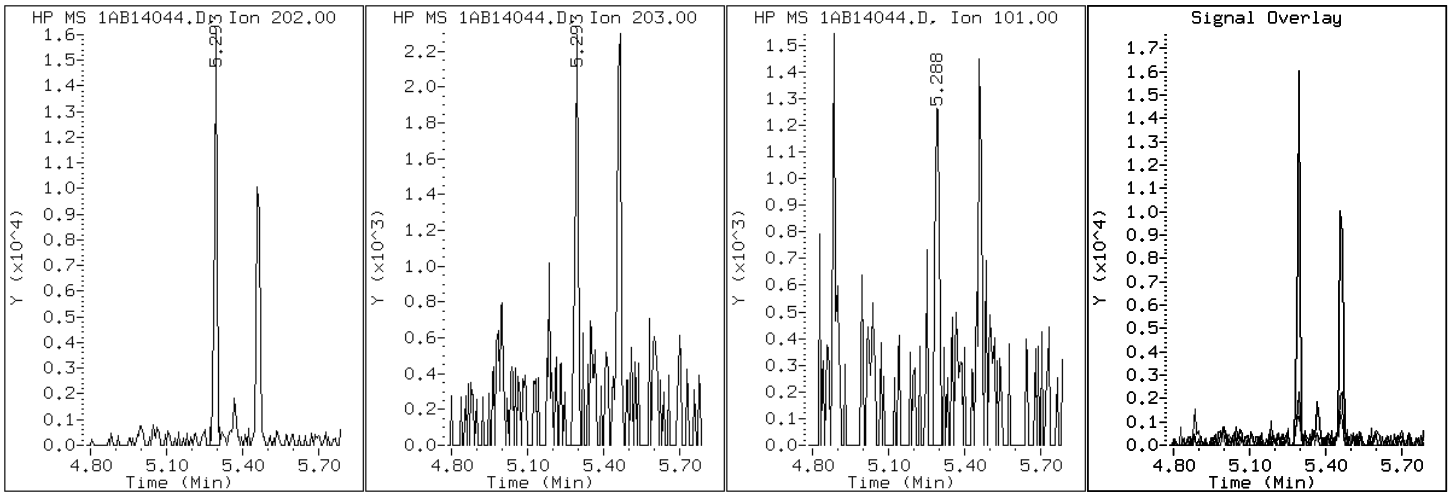
Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC

15 Fluoranthene



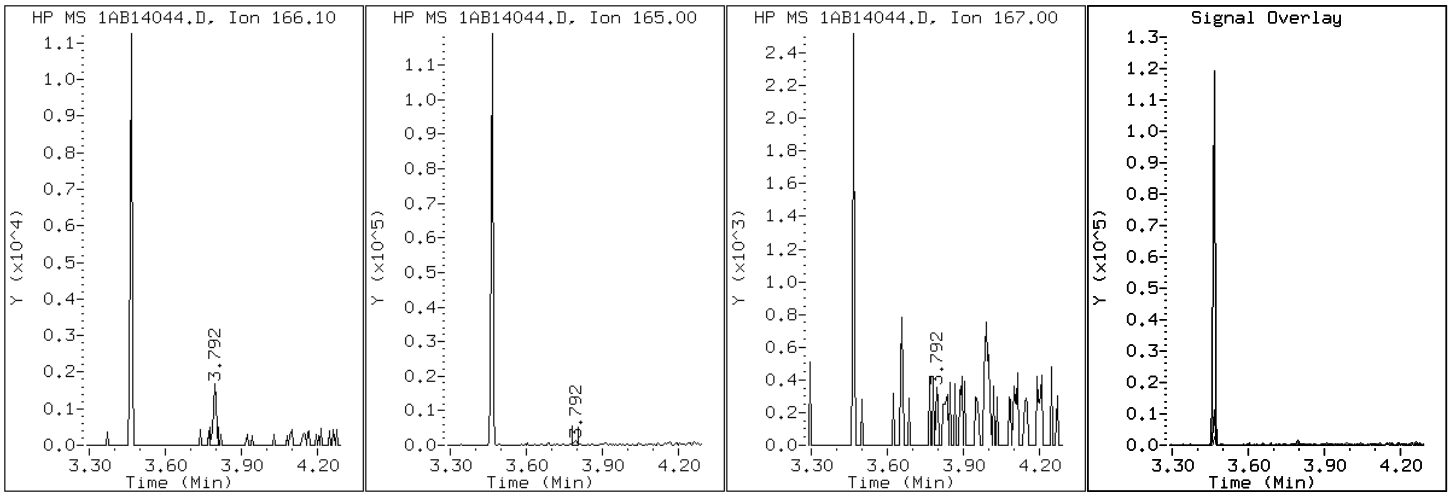
Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

Client ID: FM0139B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a Operator: SCC

9 Fluorene



Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

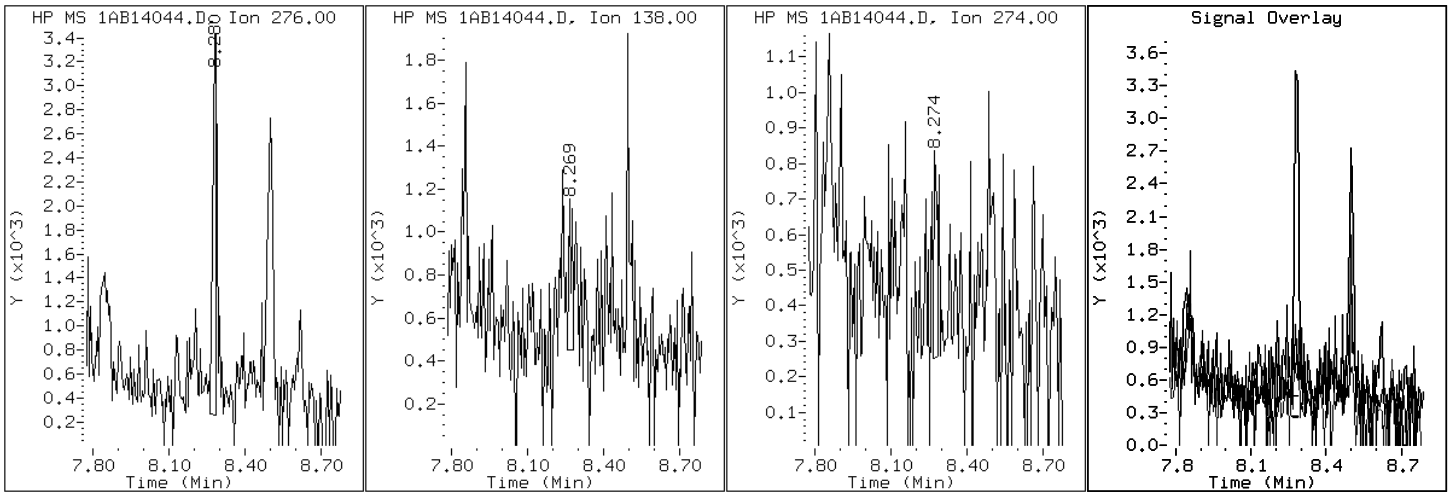
Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



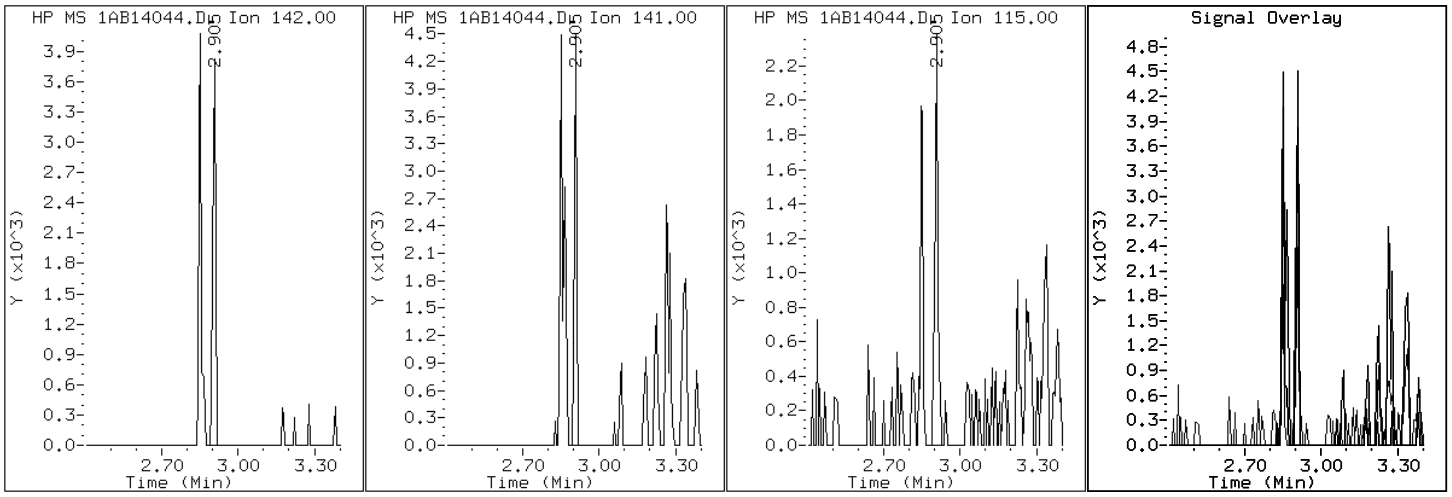
Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

Client ID: FM0139B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a Operator: SCC

4 1-Methylnaphthalene



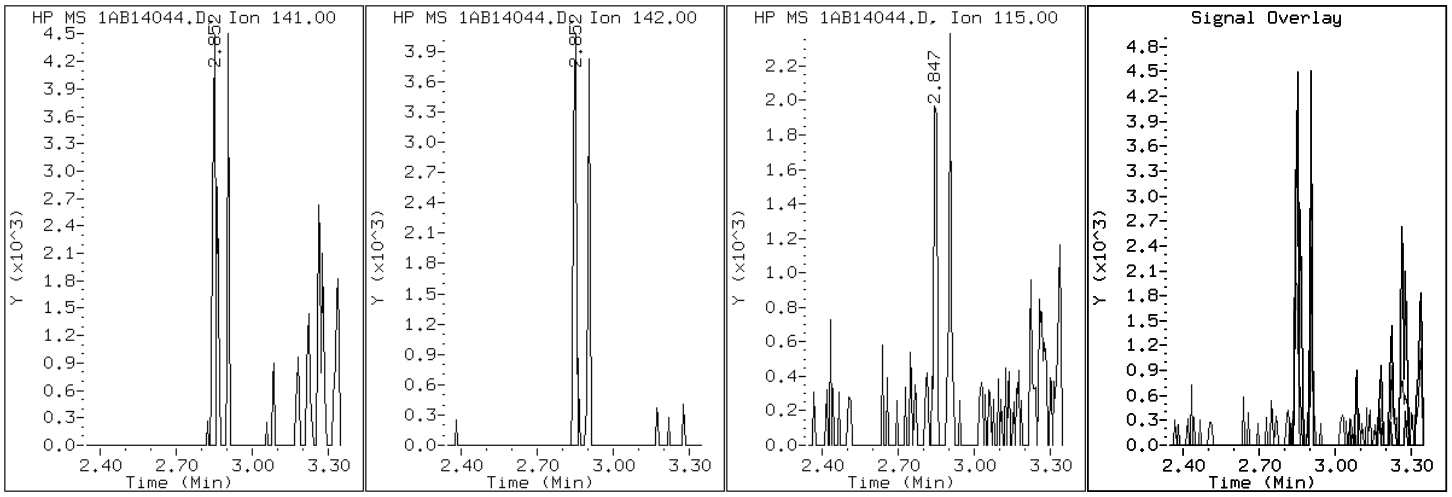
Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

Client ID: FM0139B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a Operator: SCC

3 2-Methylnaphthalene



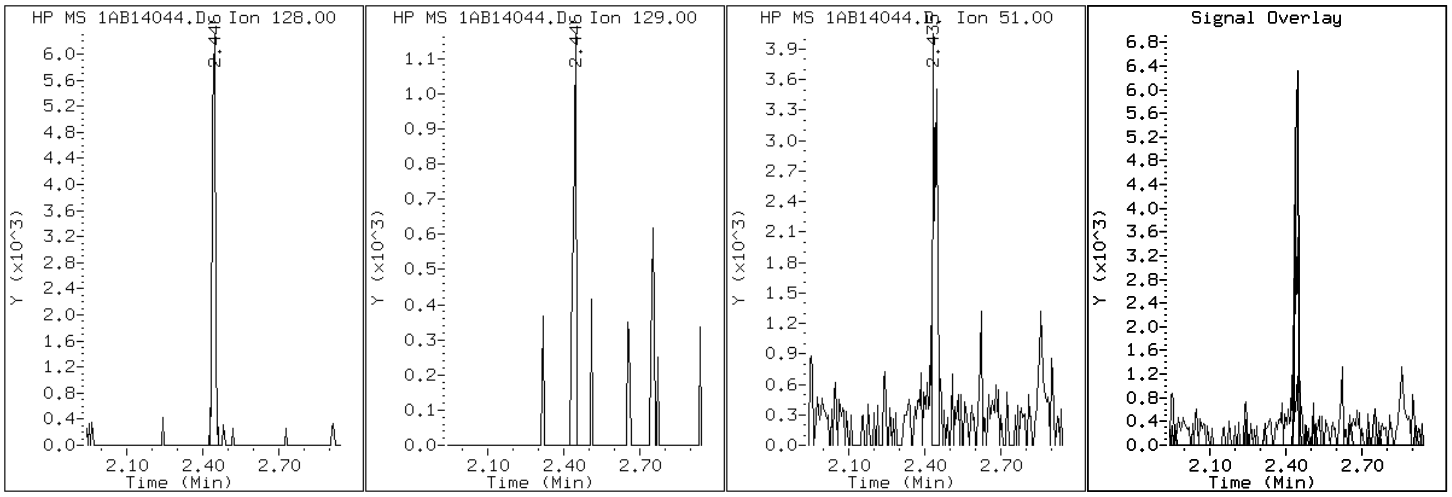
Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

Client ID: FM0139B-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a Operator: SCC

2 Naphthalene



Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

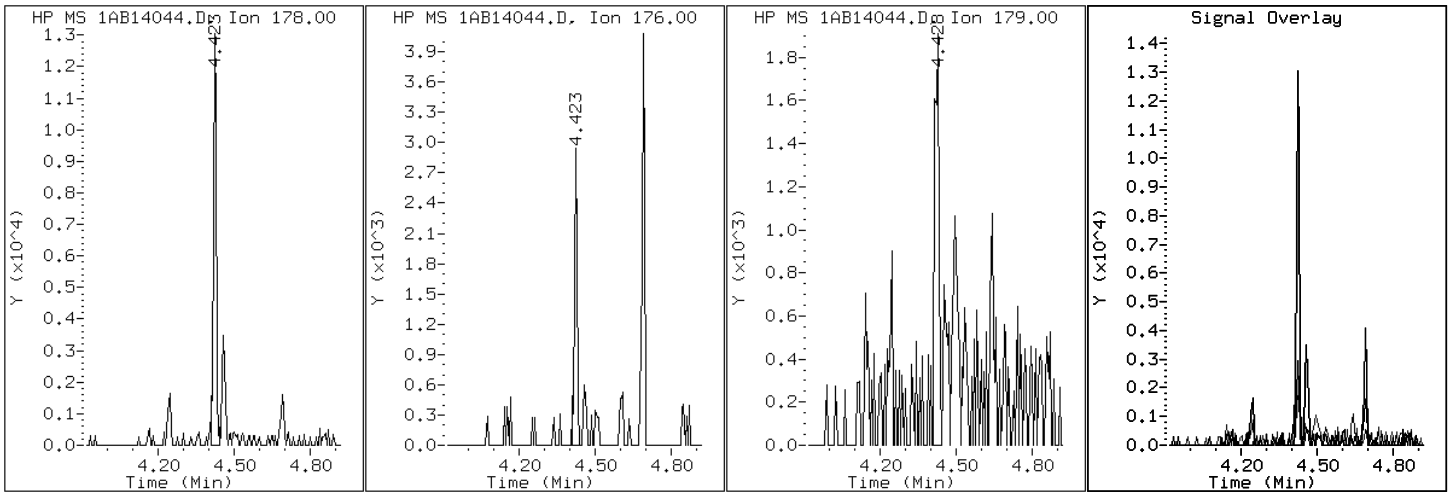
Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1AB14044.D

Date: 14-FEB-2013 20:41

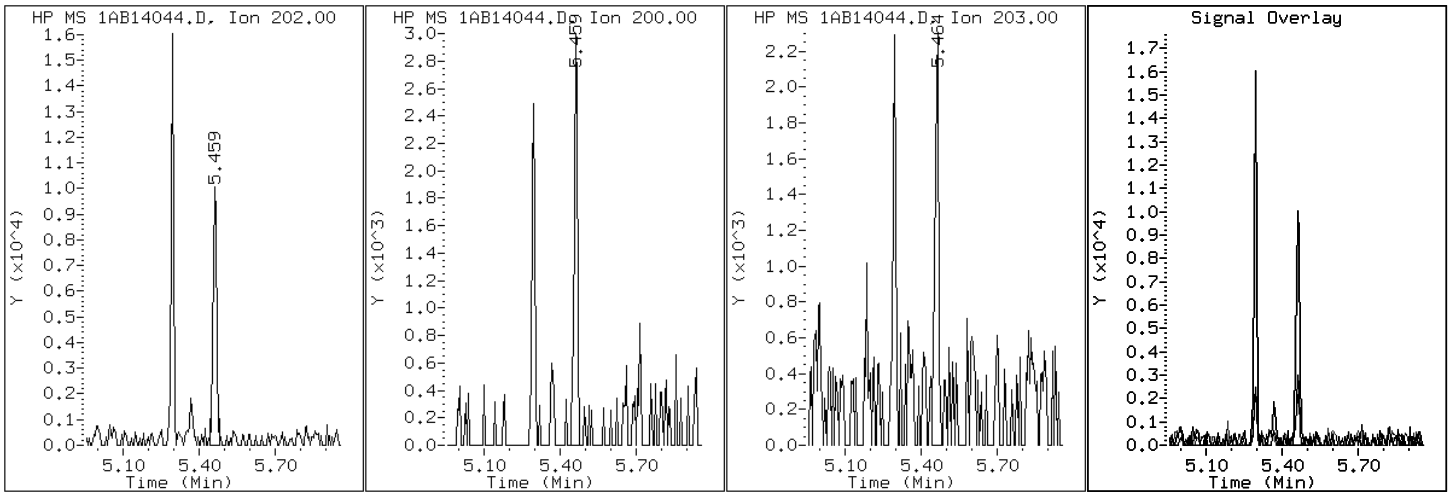
Client ID: FM0139B-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-8-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14044.D
Inj. Date and Time: 14-FEB-2013 20:41
Instrument ID: BSMA5973.i
Client ID: FM0139B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

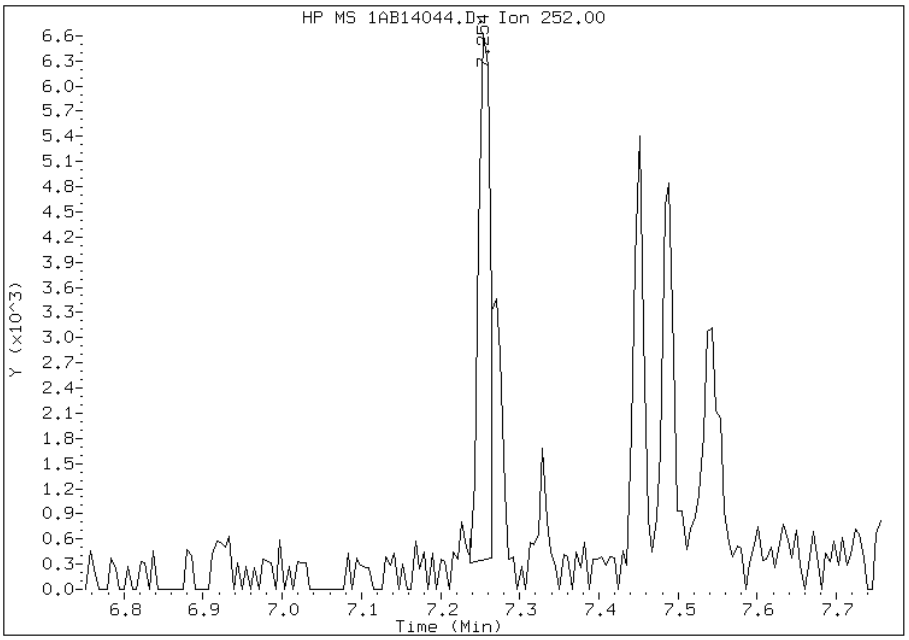
Processing Integration Results

RT: 7.25

Response: 6420

Amount: 0

Conc: 26



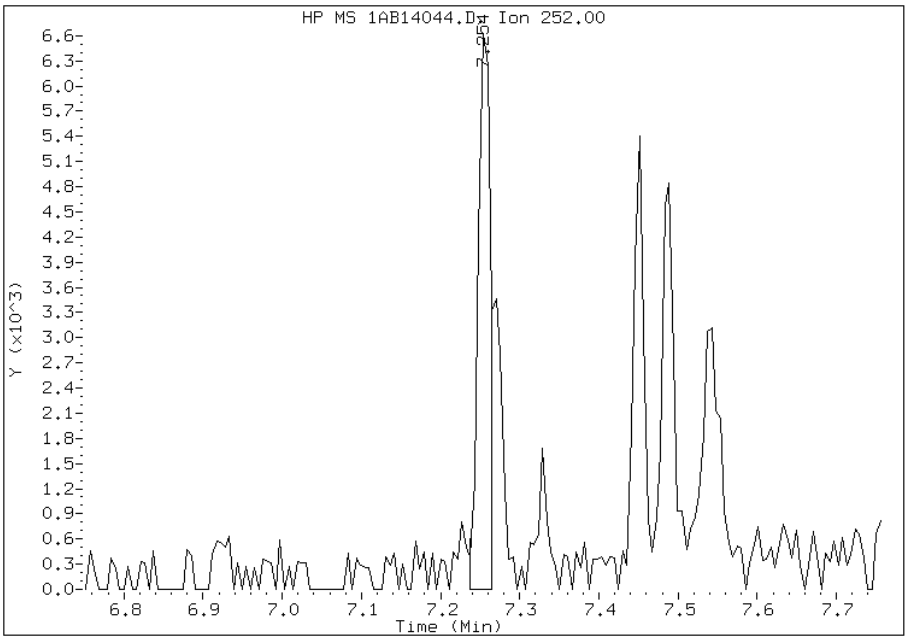
Manual Integration Results

RT: 7.25

Response: 7078

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14044.D
Inj. Date and Time: 14-FEB-2013 20:41
Instrument ID: BSMA5973.i
Client ID: FM0139B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

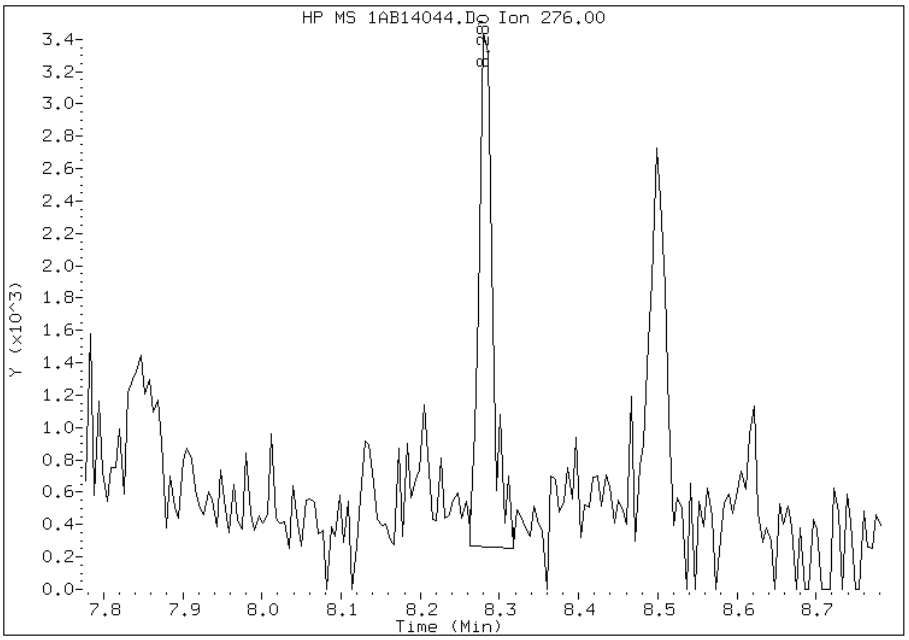
Processing Integration Results

RT: 8.28

Response: 3891

Amount: 0

Conc: 21



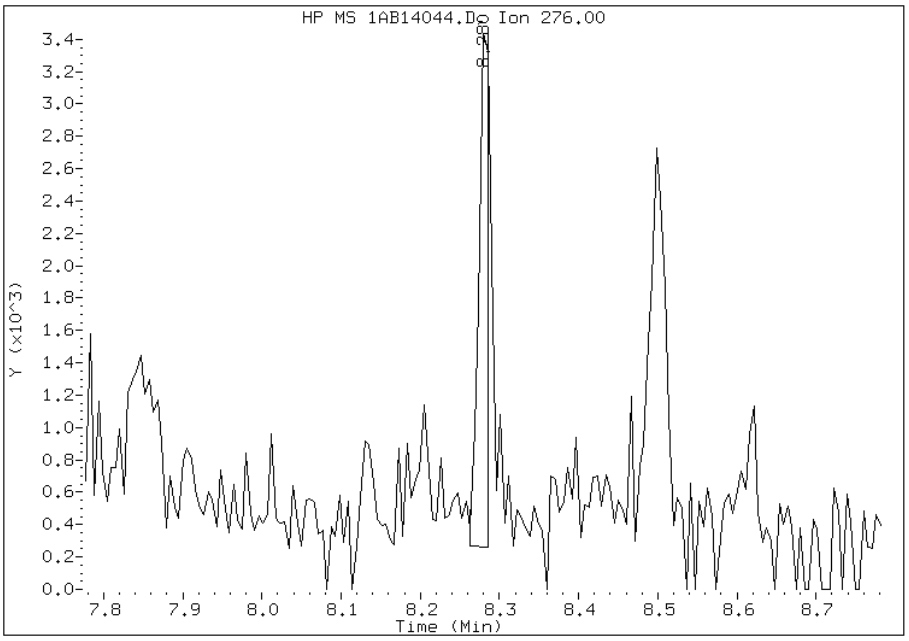
Manual Integration Results

RT: 8.28

Response: 2742

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0139C-CS | Lab Sample ID: 680-87279-9

Matrix: Solid | Lab File ID: 1AB14045.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 11:35

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.17(g) | Date Analyzed: 02/14/2013 20:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	9.7	J	42	5.3
120-12-7	Anthracene	14		8.9	4.4
56-55-3	Benzo[a]anthracene	50		8.4	4.1
50-32-8	Benzo[a]pyrene	35		11	5.5
205-99-2	Benzo[b]fluoranthene	47		13	6.4
191-24-2	Benzo[g,h,i]perylene	33		21	4.6
207-08-9	Benzo[k]fluoranthene	32		8.4	3.8
218-01-9	Chrysene	47		9.5	4.7
53-70-3	Dibenz(a,h)anthracene	11	J	21	4.3
206-44-0	Fluoranthene	73		21	4.2
86-73-7	Fluorene	21	U	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	30		21	7.5
90-12-0	1-Methylnaphthalene	14	J	42	4.6
91-57-6	2-Methylnaphthalene	15	J	42	7.5
91-20-3	Naphthalene	23	J	42	4.6
85-01-8	Phenanthrene	42		8.4	4.1
129-00-0	Pyrene	57		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14045.D
Lab Smp Id: 680-87279-A-9-A Client Smp ID: FM0139C-CS
Inj Date : 14-FEB-2013 20:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-9-a
Misc Info : 680-87279-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	6.264	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.437	2.430	(1.000)	848706	40.0000	
* 6 Acenaphthene-d10	164	3.463	3.461	(1.000)	521969	40.0000	
* 10 Phenanthrene-d10	188	4.413	4.402	(1.000)	737519	40.0000	
$ 14 o-Terphenyl	230	4.691	4.685	(1.063)	73691	6.87638	483.5792
* 18 Chrysene-d12	240	6.438	6.426	(1.000)	574908	40.0000	
* 23 Perylene-d12	264	7.539	7.527	(1.000)	632134	40.0000	
2 Naphthalene	128	2.448	2.441	(1.004)	6789	0.32956	23.1763(Q)
3 2-Methylnaphthalene	141	2.848	2.847	(1.169)	2354	0.21330	15.0005
4 1-Methylnaphthalene	142	2.907	2.900	(1.193)	2413	0.19315	13.5835
5 Acenaphthylene	152	3.377	3.371	(0.975)	3183	0.13811	9.7122
11 Phenanthrene	178	4.424	4.418	(1.002)	12028	0.59730	42.0046
12 Anthracene	178	4.456	4.455	(1.010)	4215	0.20530	14.4374
13 Carbazole	167	4.616	4.610	(1.046)	2361	0.13415	9.4343
15 Fluoranthene	202	5.295	5.283	(1.200)	20849	1.04428	73.4384

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.461	5.454	(0.848)	16721	0.80533	56.6349
17 Benzo(a)anthracene	228	6.433	6.416	(0.999)	12208	0.71117	50.0131
19 Chrysene	228	6.454	6.448	(1.002)	11286	0.67451	47.4349
20 Benzo(b)fluoranthene	252	7.255	7.244	(0.962)	11906	0.67483	47.4570(M)
21 Benzo(k)fluoranthene	252	7.261	7.265	(0.963)	8334	0.45180	31.7724(M)
22 Benzo(a)pyrene	252	7.485	7.479	(0.993)	8240	0.49182	34.5871
24 Indeno(1,2,3-cd)pyrene	276	8.281	8.275	(1.098)	5627	0.42534	29.9117(M)
25 Dibenzo(a,h)anthracene	278	8.292	8.291	(1.100)	1975	0.14933	10.5016
26 Benzo(g,h,i)perylene	276	8.495	8.494	(1.127)	6381	0.46557	32.7412

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14045.D

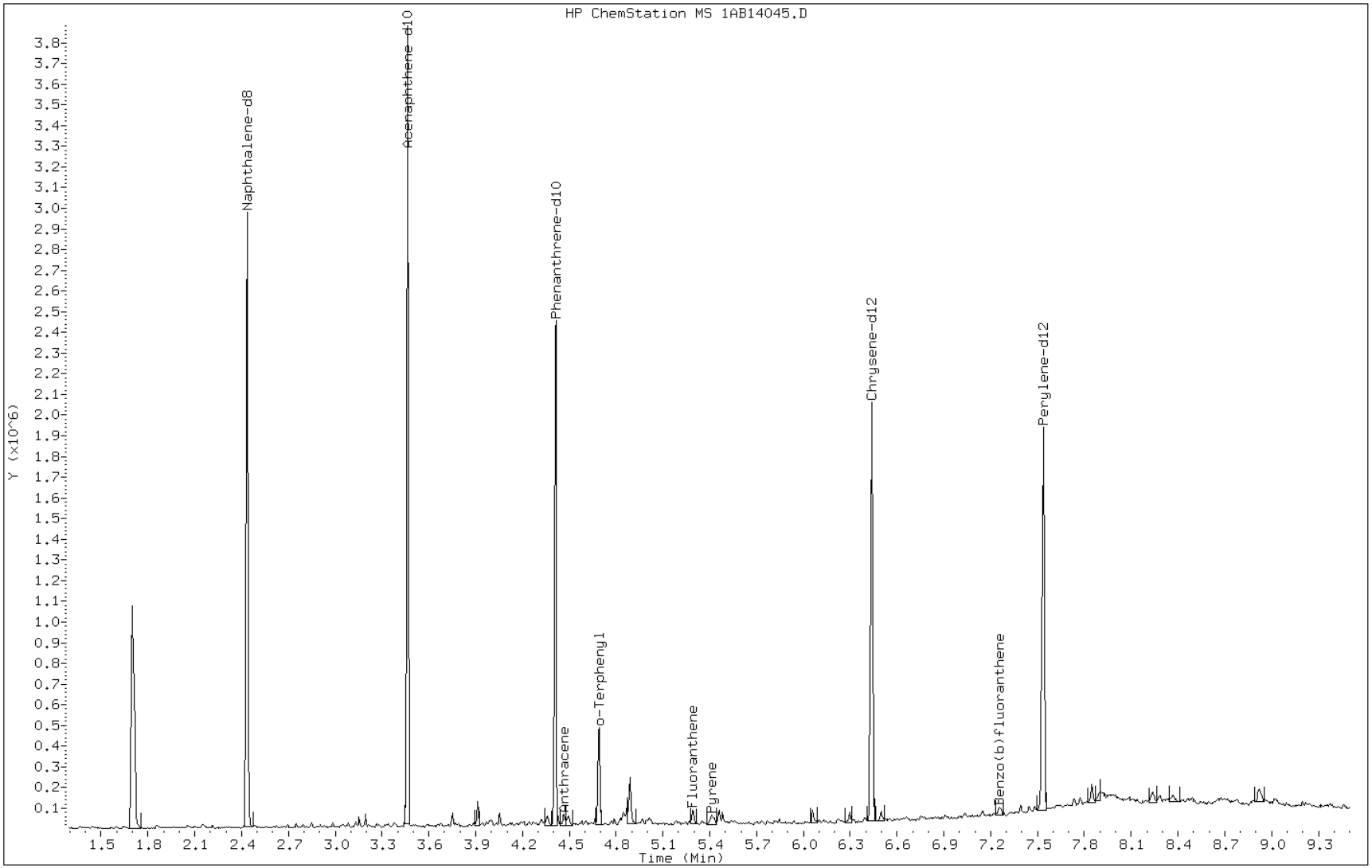
Date: 14-FEB-2013 20:56

Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC



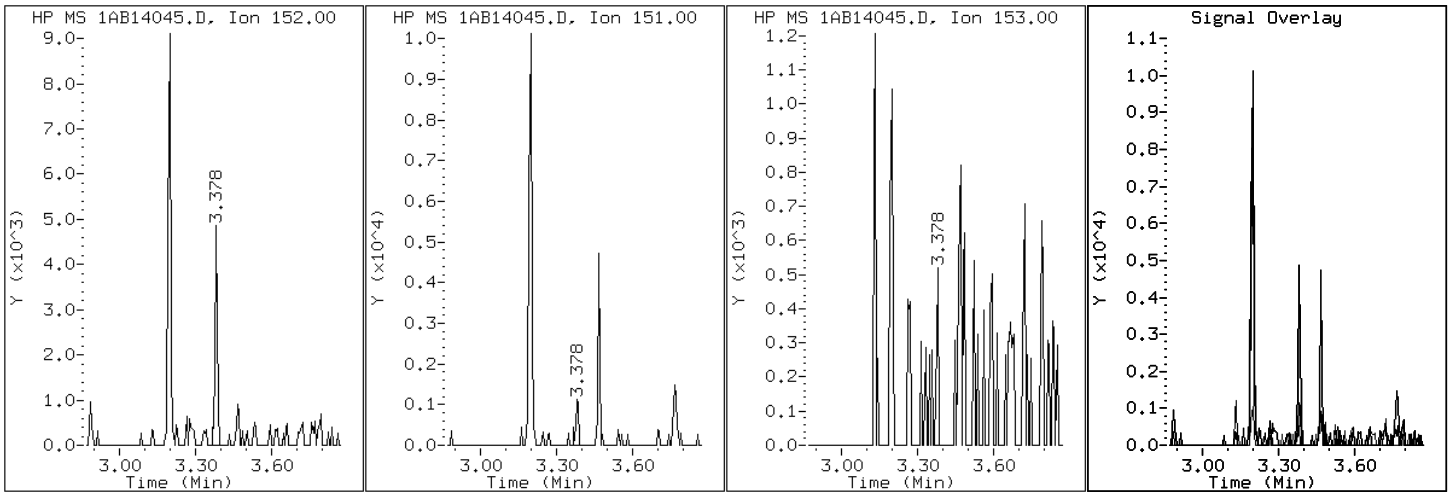
Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

Client ID: FM0139C-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a Operator: SCC

5 Acenaphthylene



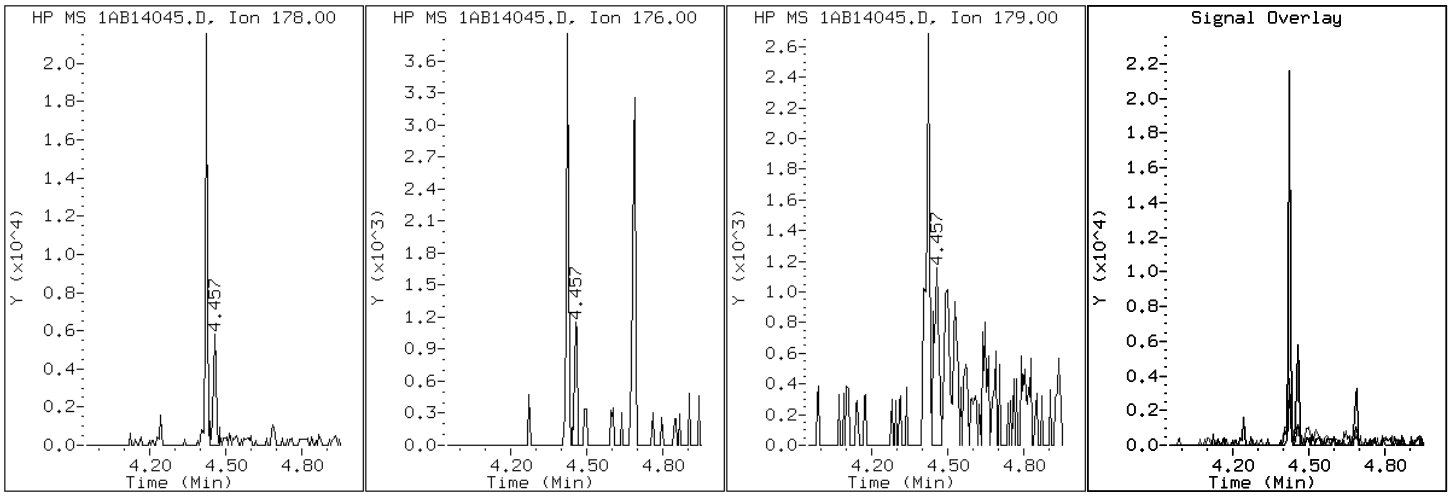
Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

Client ID: FM0139C-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a Operator: SCC

12 Anthracene



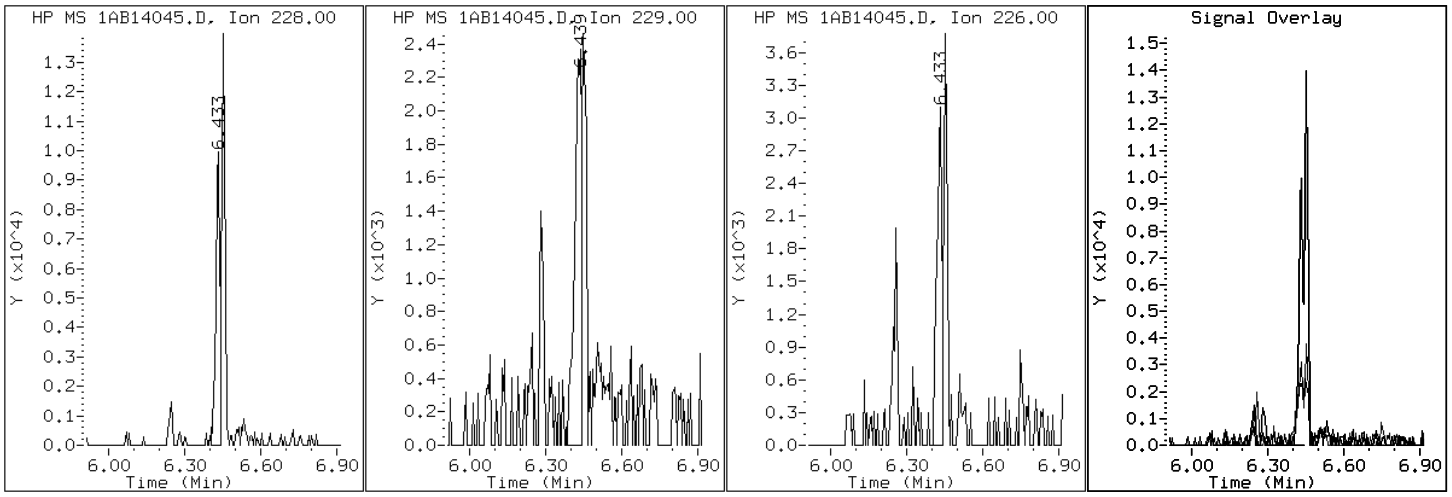
Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

Client ID: FM0139C-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a Operator: SCC

17 Benzo(a)anthracene



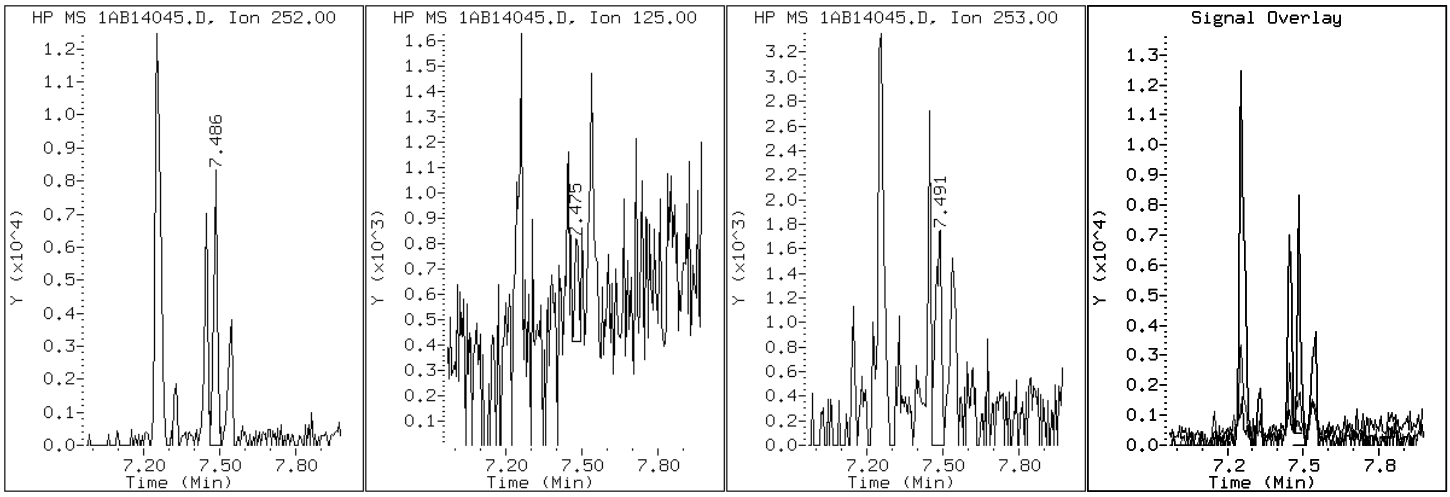
Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

Client ID: FM0139C-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

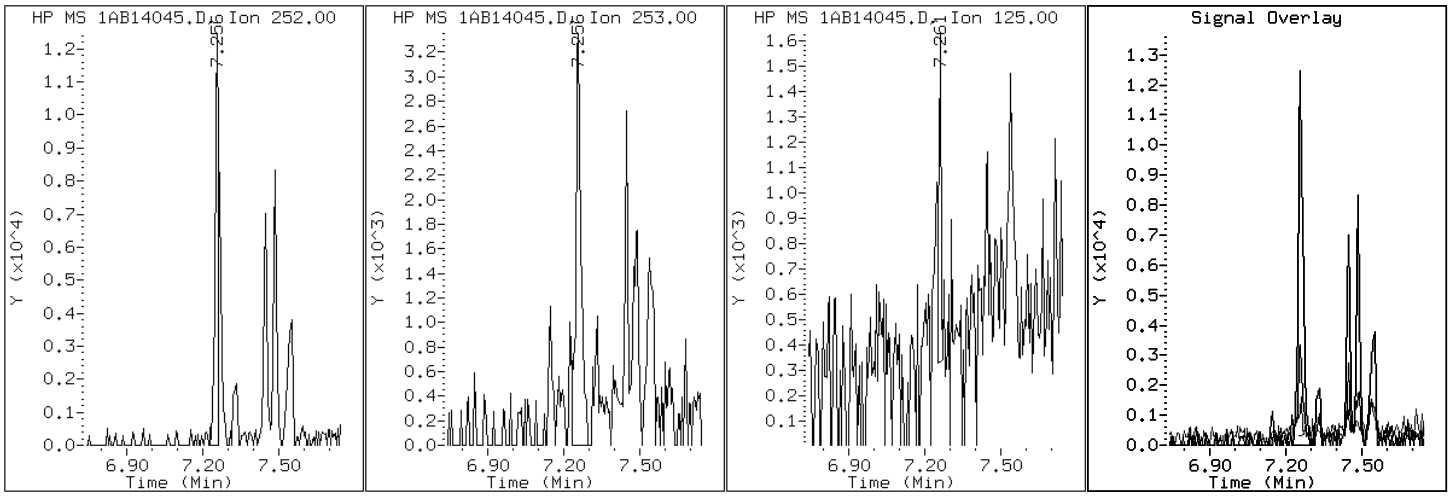
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

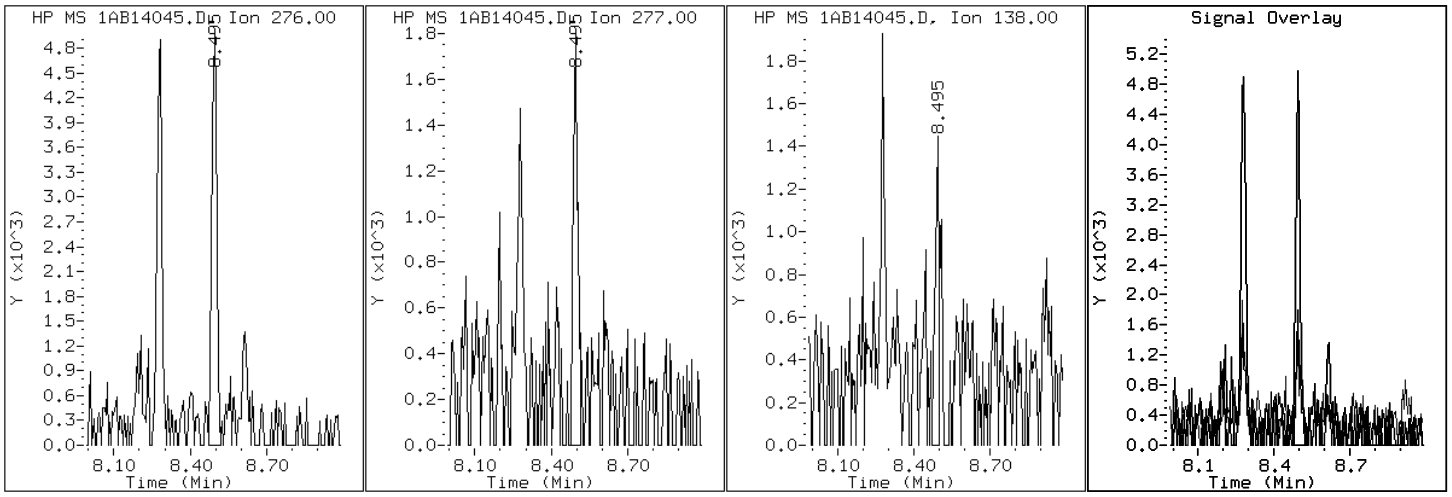
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

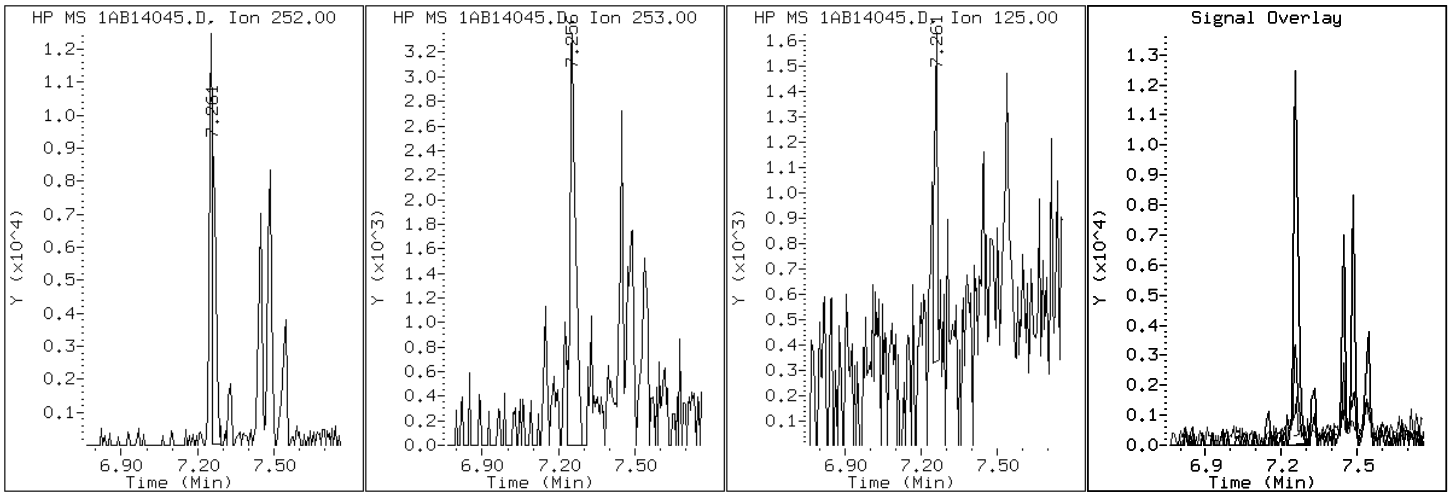
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

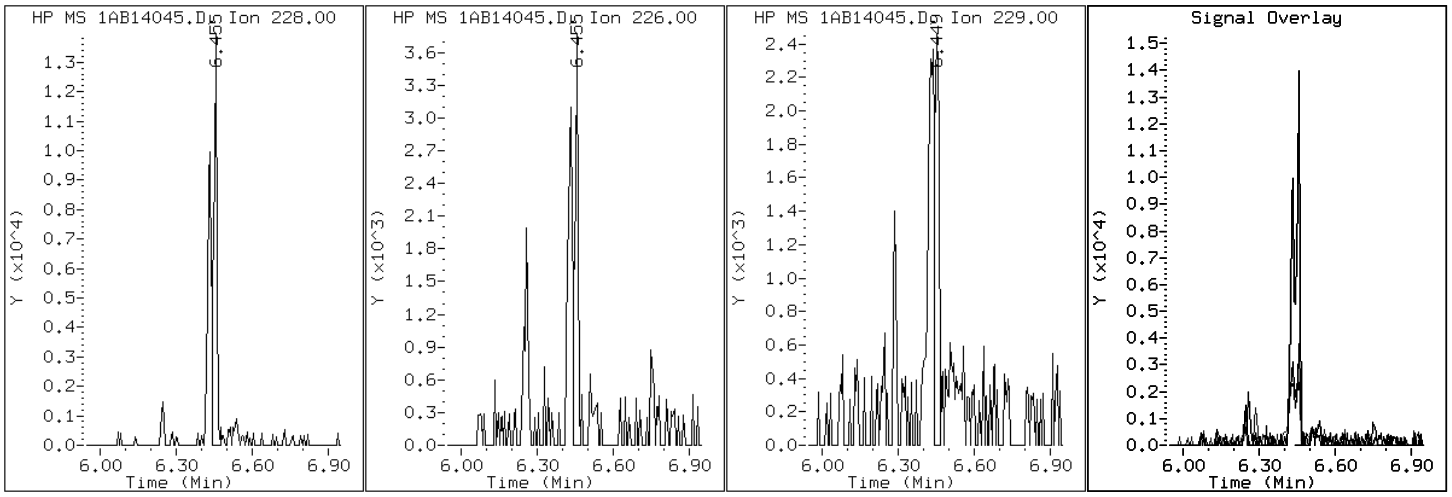
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

19 Chrysene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

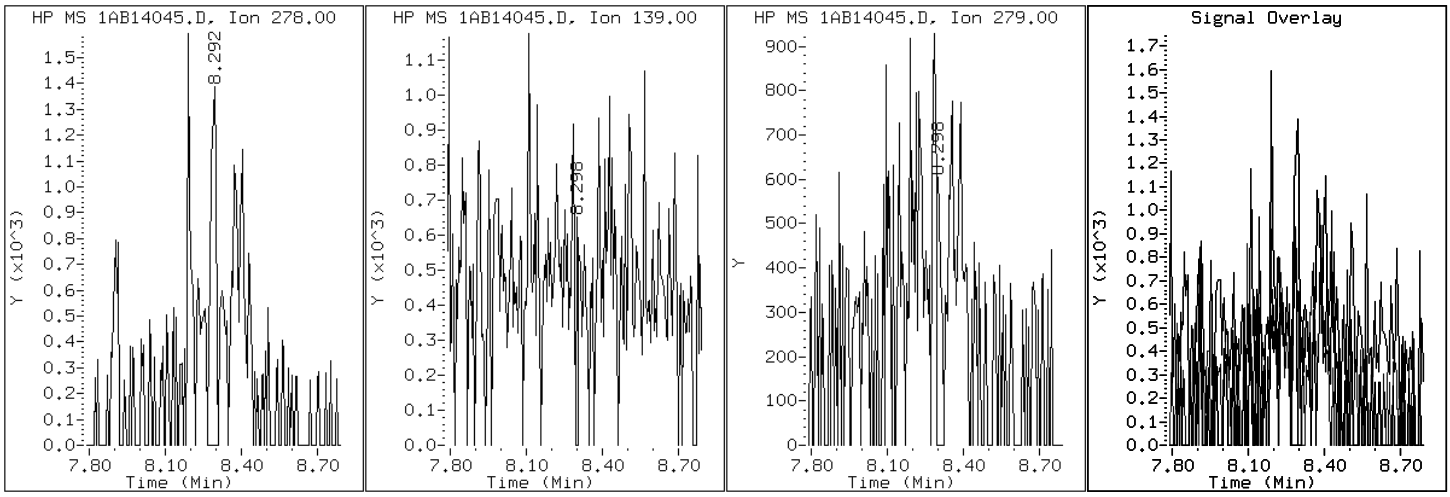
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

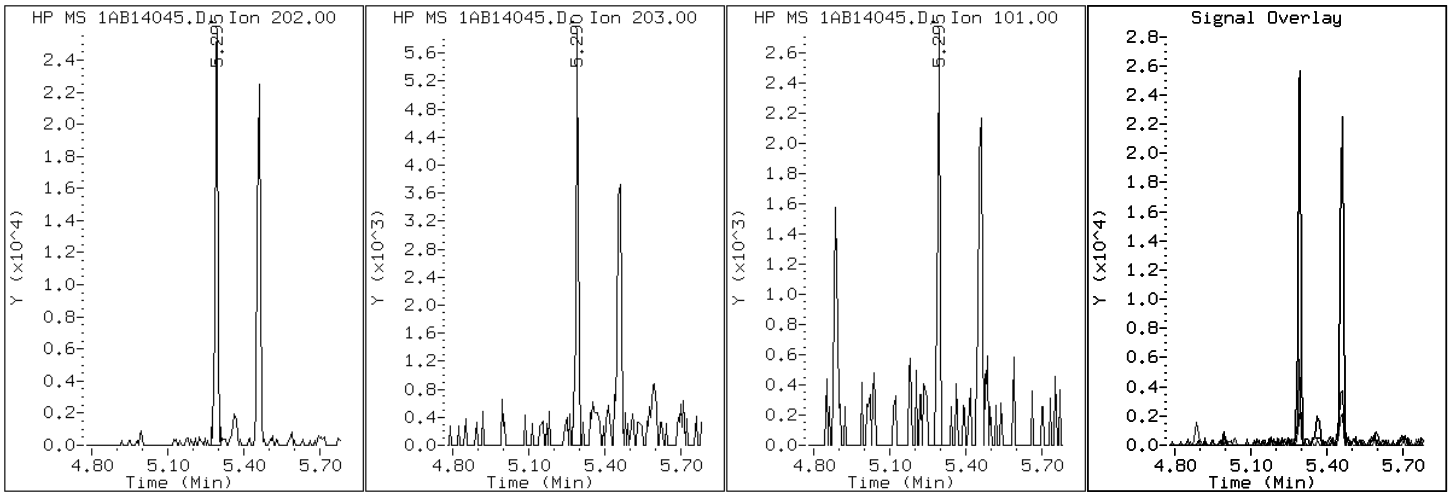
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

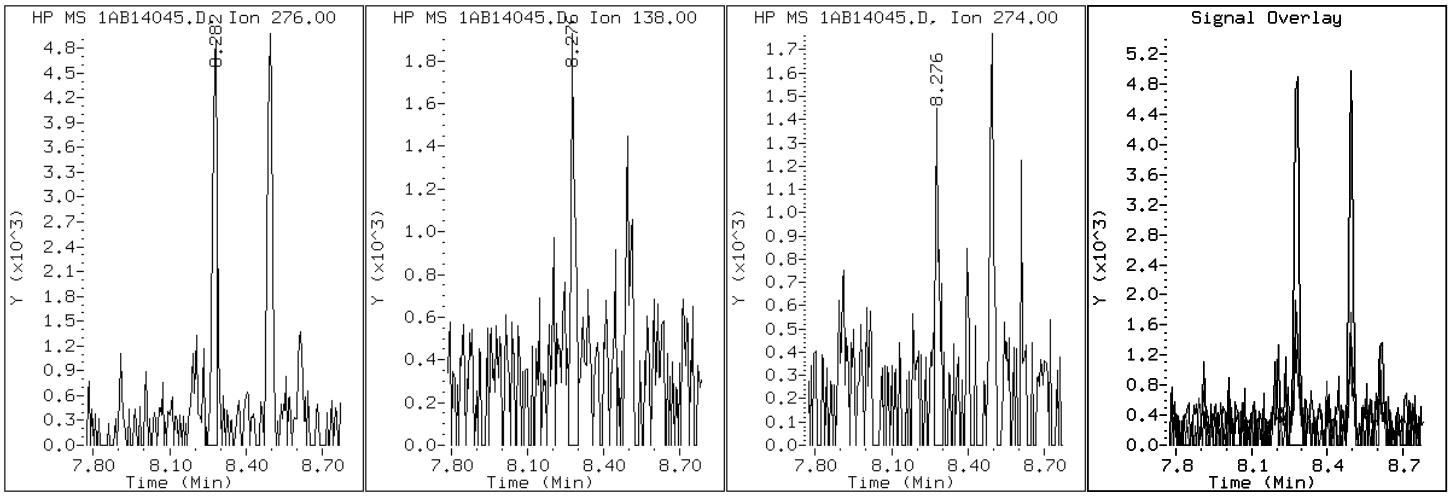
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



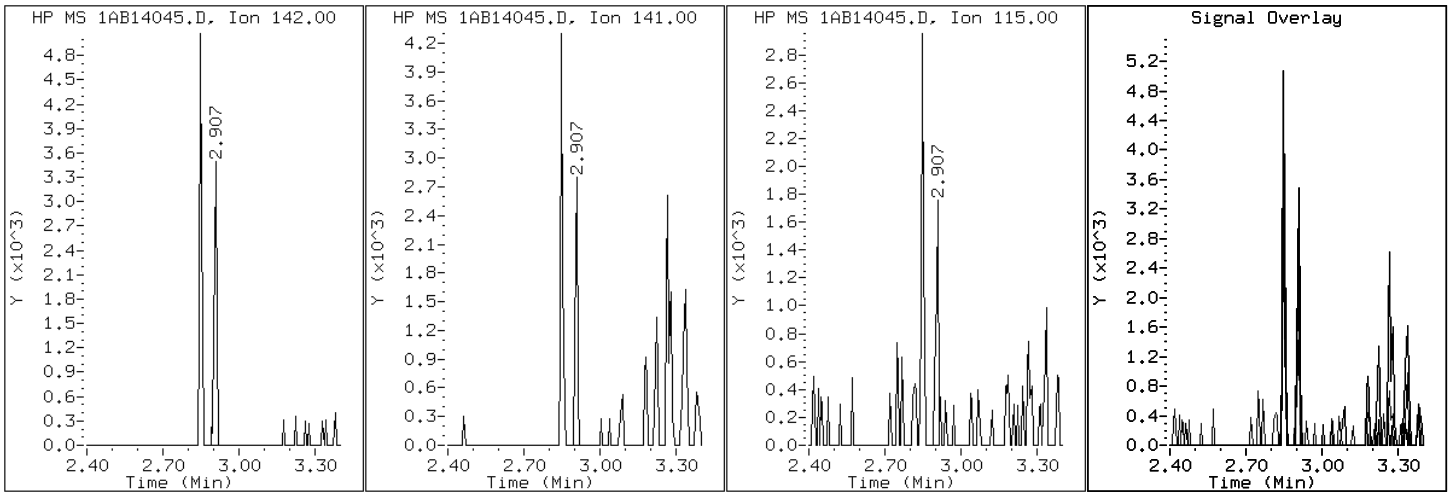
Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

Client ID: FM0139C-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

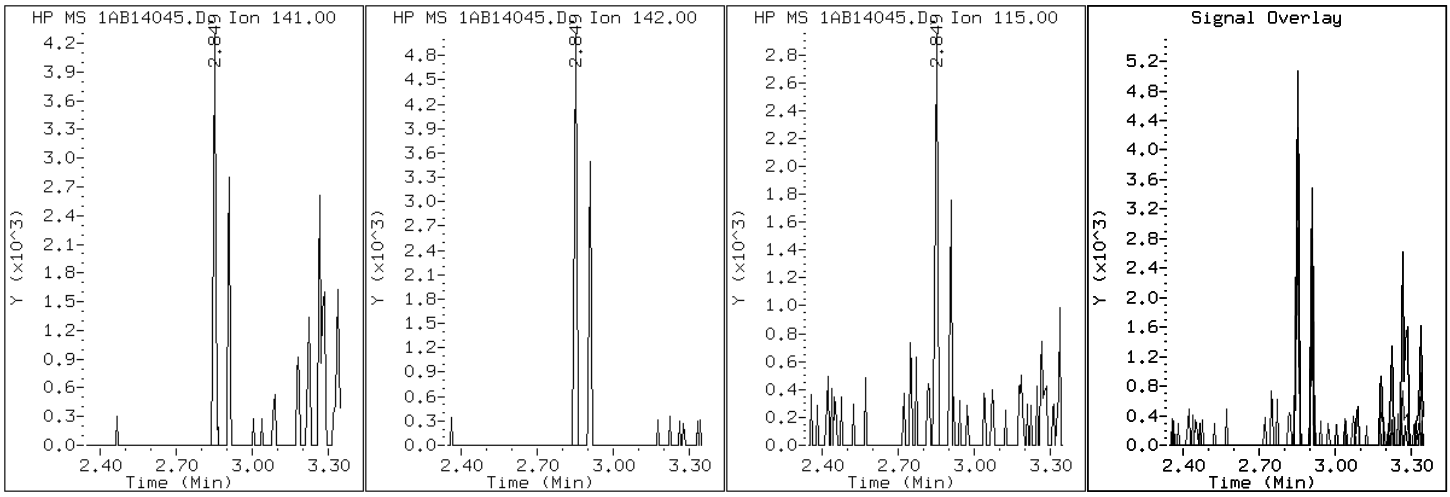
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

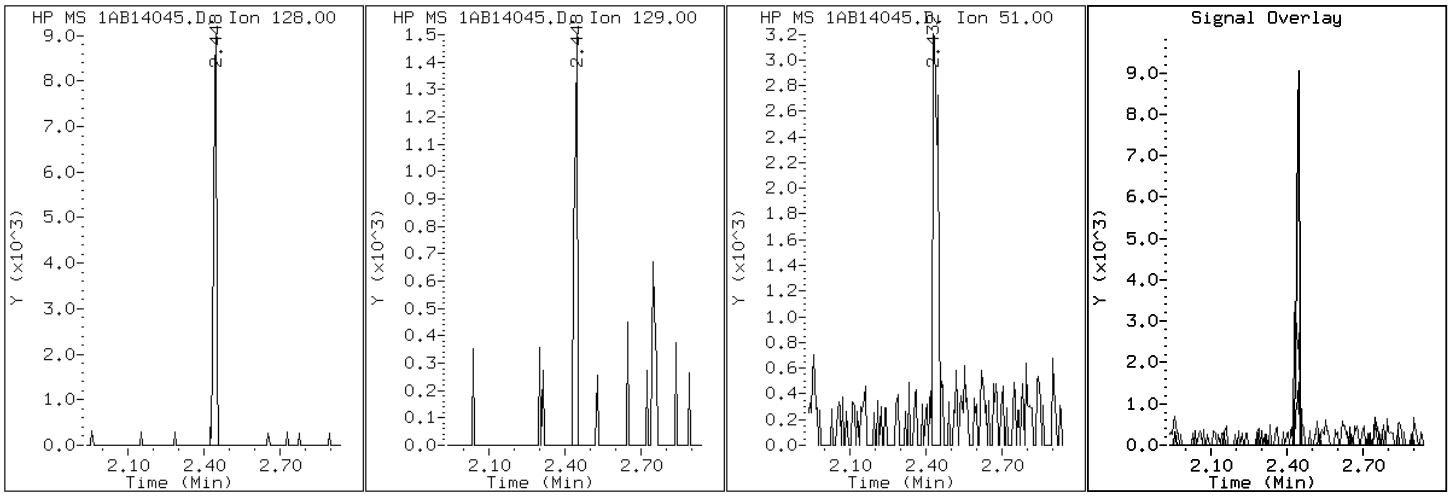
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

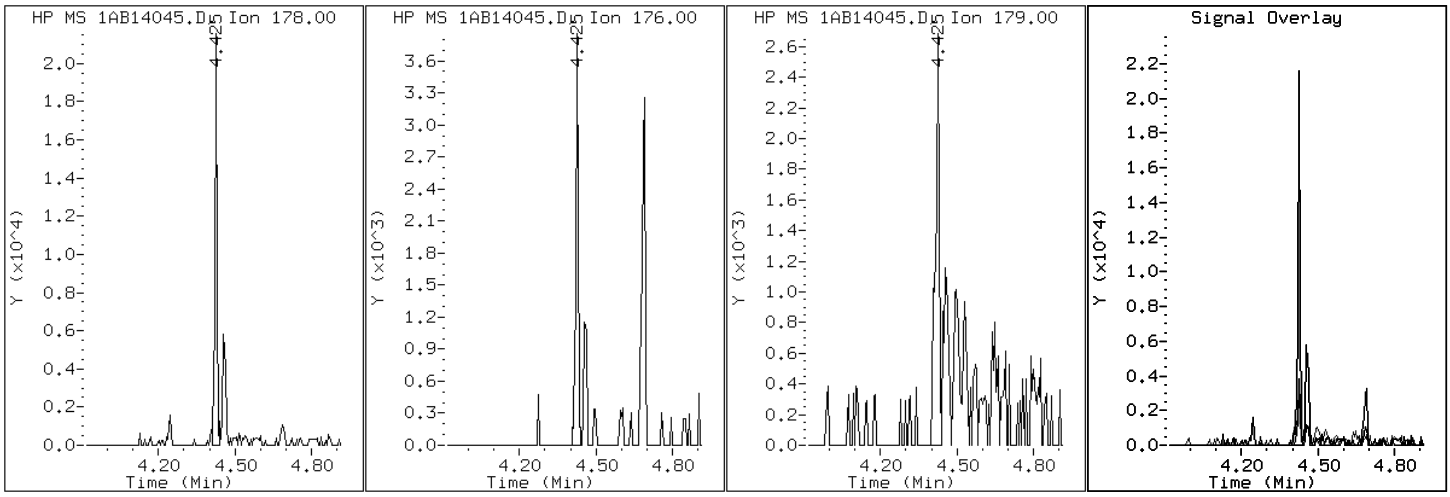
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1AB14045.D

Date: 14-FEB-2013 20:56

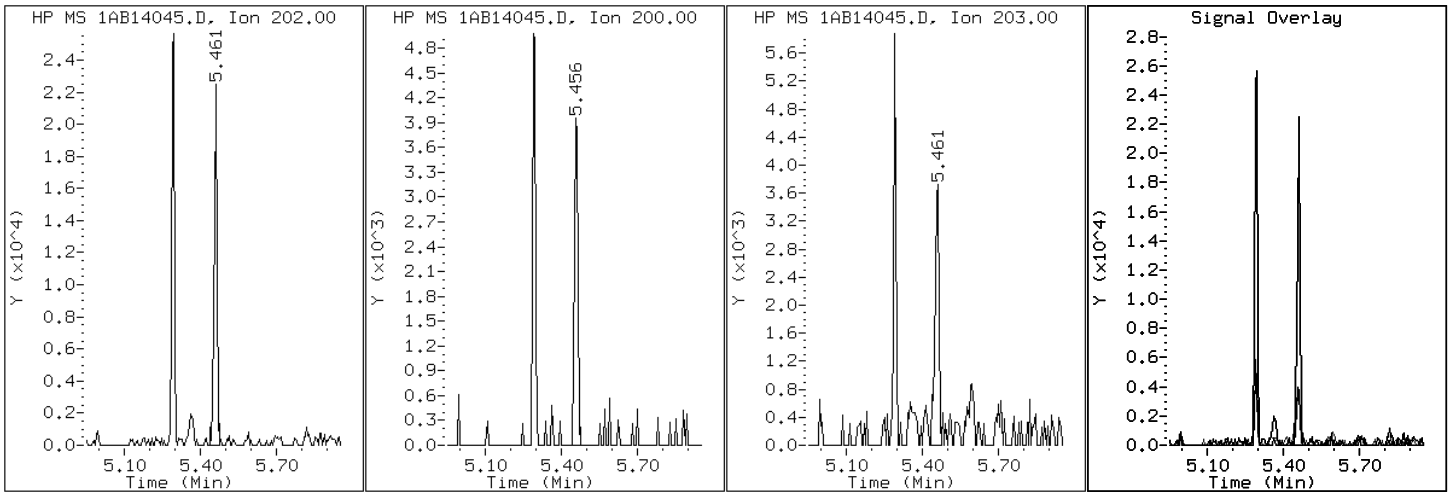
Client ID: FM0139C-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-9-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14045.D
Inj. Date and Time: 14-FEB-2013 20:56
Instrument ID: BSMA5973.i
Client ID: FM0139C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

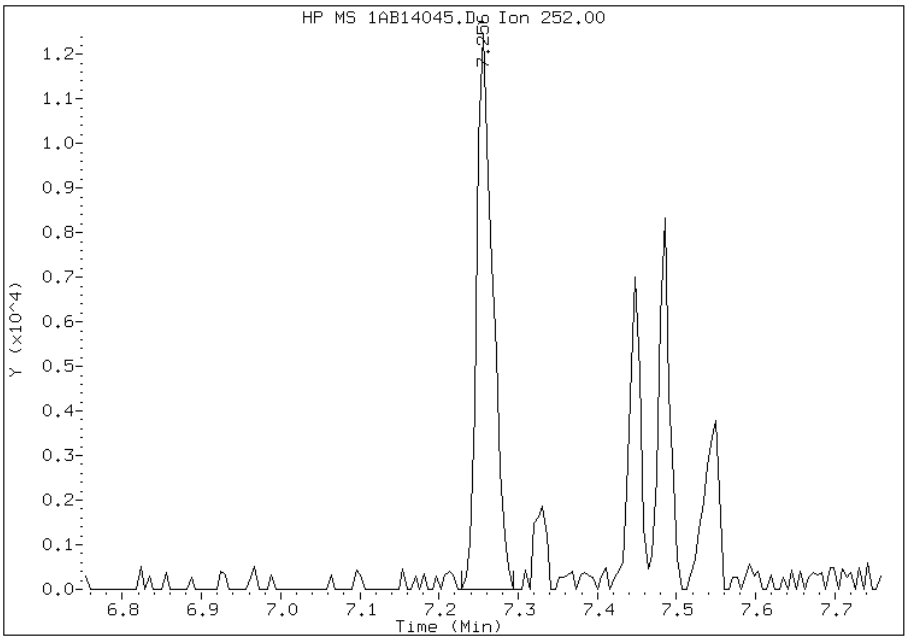
Processing Integration Results

RT: 7.26

Response: 17340

Amount: 1

Conc: 69



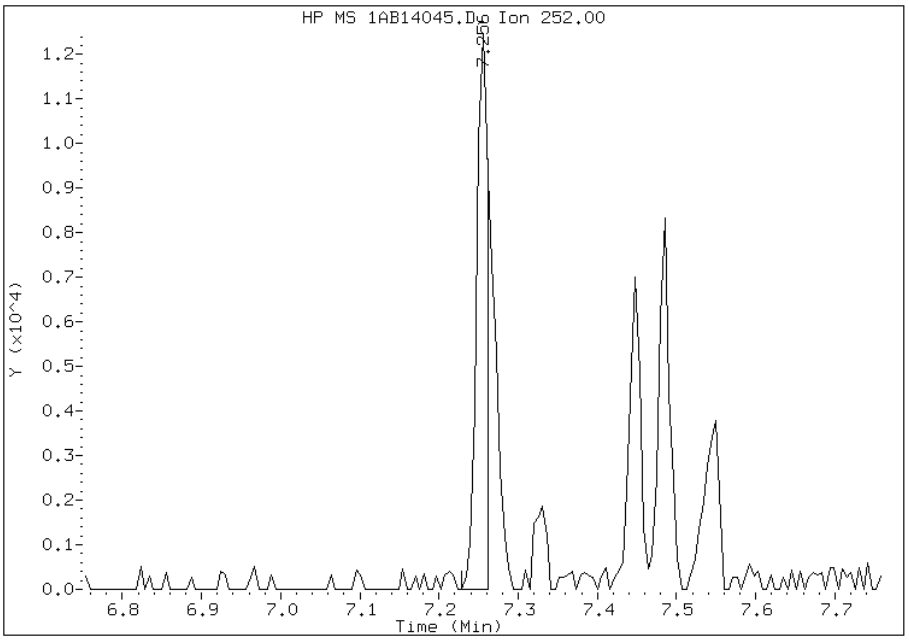
Manual Integration Results

RT: 7.26

Response: 11906

Amount: 1

Conc: 47



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:00
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14045.D
Inj. Date and Time: 14-FEB-2013 20:56
Instrument ID: BSMA5973.i
Client ID: FM0139C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

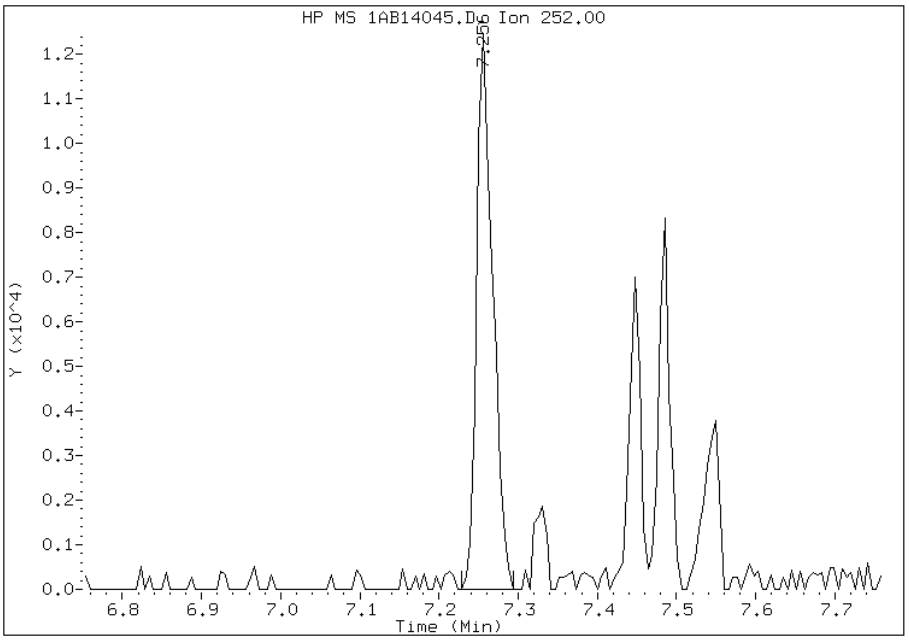
Processing Integration Results

RT: 7.26

Response: 17340

Amount: 1

Conc: 66



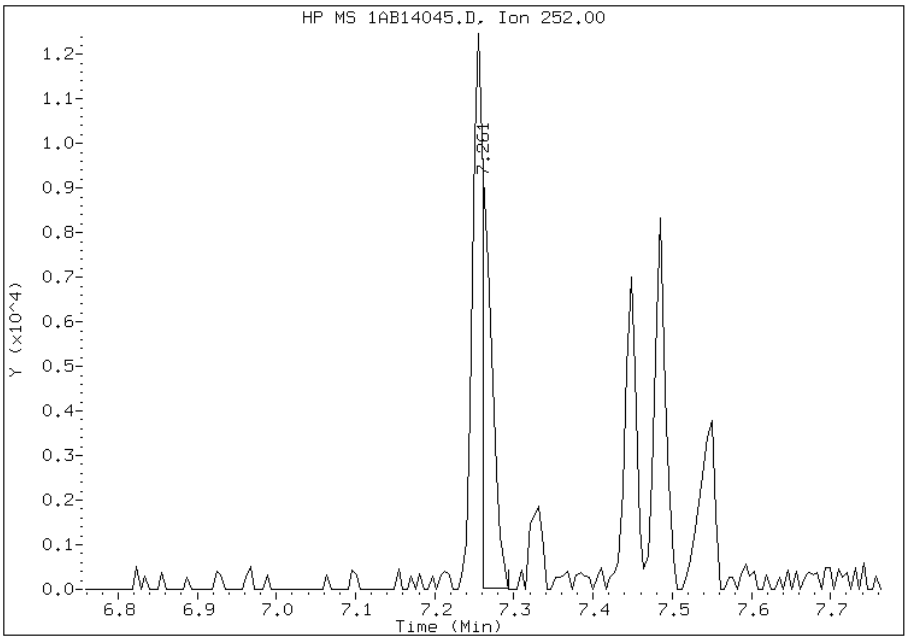
Manual Integration Results

RT: 7.26

Response: 8334

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14045.D
Inj. Date and Time: 14-FEB-2013 20:56
Instrument ID: BSMA5973.i
Client ID: FM0139C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

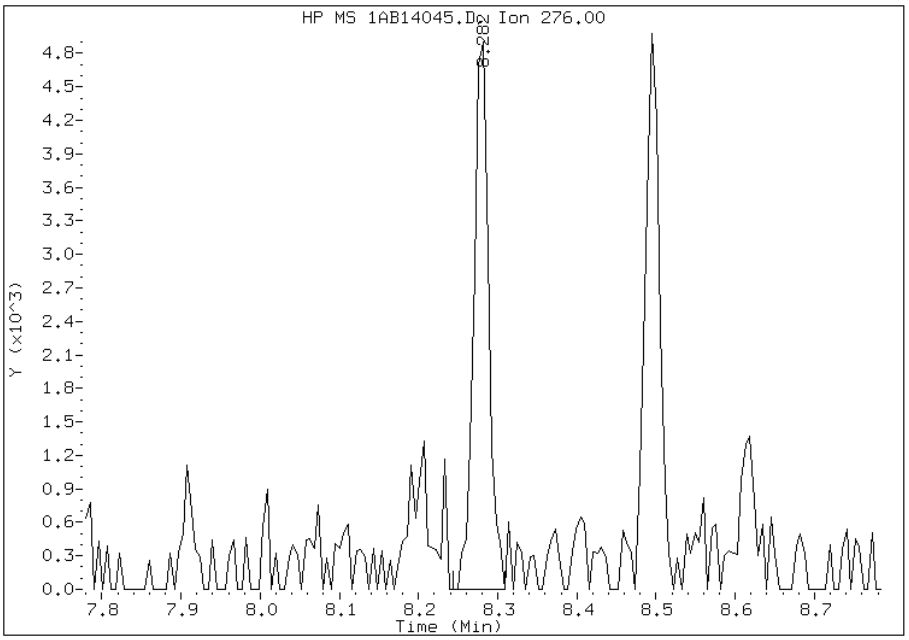
Processing Integration Results

RT: 8.28

Response: 6352

Amount: 0

Conc: 34



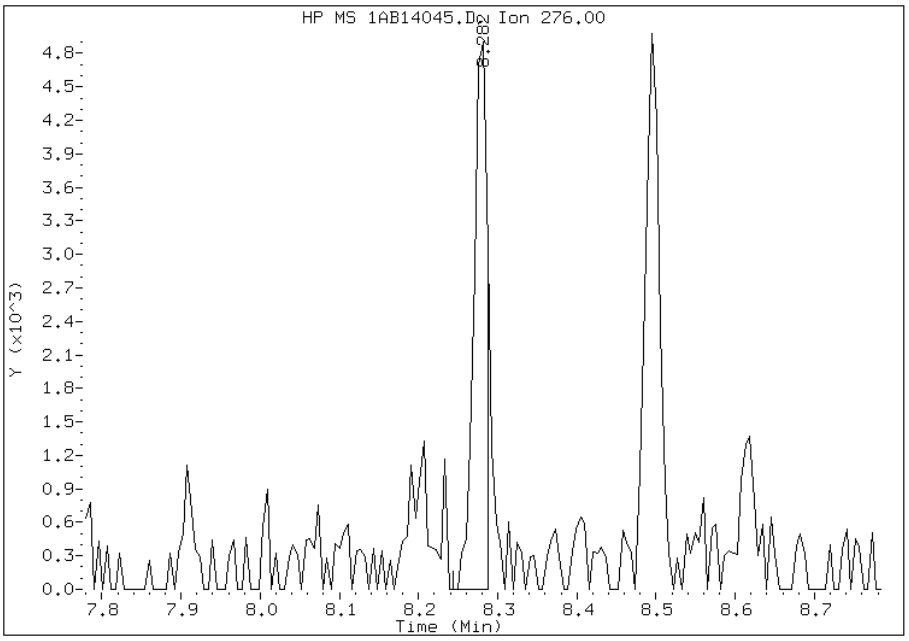
Manual Integration Results

RT: 8.28

Response: 5627

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0153A-CS | Lab Sample ID: 680-87279-10

Matrix: Solid | Lab File ID: 1AB14046.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:02

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.06(g) | Date Analyzed: 02/14/2013 21:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 8.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	43	U	43	5.4
120-12-7	Anthracene	9.1	U	9.1	4.6
56-55-3	Benzo[a]anthracene	19		8.7	4.2
50-32-8	Benzo[a]pyrene	6.4	J	11	5.6
205-99-2	Benzo[b]fluoranthene	12	J	13	6.6
191-24-2	Benzo[g,h,i]perylene	12	J	22	4.8
207-08-9	Benzo[k]fluoranthene	8.7	U	8.7	3.9
218-01-9	Chrysene	12		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	22	U	22	4.4
206-44-0	Fluoranthene	12	J	22	4.3
86-73-7	Fluorene	22	U	22	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	10	J	22	7.7
90-12-0	1-Methylnaphthalene	6.9	J	43	4.8
91-57-6	2-Methylnaphthalene	14	J	43	7.7
91-20-3	Naphthalene	13	J	43	4.8
85-01-8	Phenanthrene	18		8.7	4.2
129-00-0	Pyrene	8.2	J	22	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14046.D
Lab Smp Id: 680-87279-A-10-A Client Smp ID: FM0153A-CS
Inj Date : 14-FEB-2013 21:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-10-a
Misc Info : 680-87279-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	8.200	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.432	2.430	(1.000)	878038	40.0000	
* 6 Acenaphthene-d10	164	3.463	3.461	(1.000)	528480	40.0000	
* 10 Phenanthrene-d10	188	4.408	4.402	(1.000)	752323	40.0000	
$ 14 o-Terphenyl	230	4.686	4.685	(1.063)	79974	7.31582	529.1701
* 18 Chrysene-d12	240	6.438	6.426	(1.000)	600590	40.0000	
* 23 Perylene-d12	264	7.544	7.527	(1.000)	652227	40.0000	
2 Naphthalene	128	2.443	2.441	(1.004)	3930	0.18440	13.3382(Q)
3 2-Methylnaphthalene	141	2.849	2.847	(1.171)	2191	0.19190	13.8807
4 1-Methylnaphthalene	142	2.907	2.900	(1.195)	1231	0.09525	6.8894
11 Phenanthrene	178	4.425	4.418	(1.004)	5003	0.24355	17.6168
15 Fluoranthene	202	5.290	5.283	(1.200)	3399	0.16690	12.0720
16 Pyrene	202	5.461	5.454	(0.848)	2465	0.11365	8.2202
17 Benzo(a)anthracene	228	6.438	6.416	(1.000)	4686	0.26131	18.9010
19 Chrysene	228	6.449	6.448	(1.002)	2989	0.17100	12.3688

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
20 Benzo(b)fluoranthene	252	7.250	7.244	(0.961)	2976	0.16348	11.8250(M)
22 Benzo(a)pyrene	252	7.491	7.479	(0.993)	1528	0.08839	6.3936
24 Indeno(1,2,3-cd)pyrene	276	8.276	8.275	(1.097)	1947	0.14264	10.3172(H)
26 Benzo(g,h,i)perylene	276	8.501	8.494	(1.127)	2424	0.17141	12.3986(MH)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14046.D

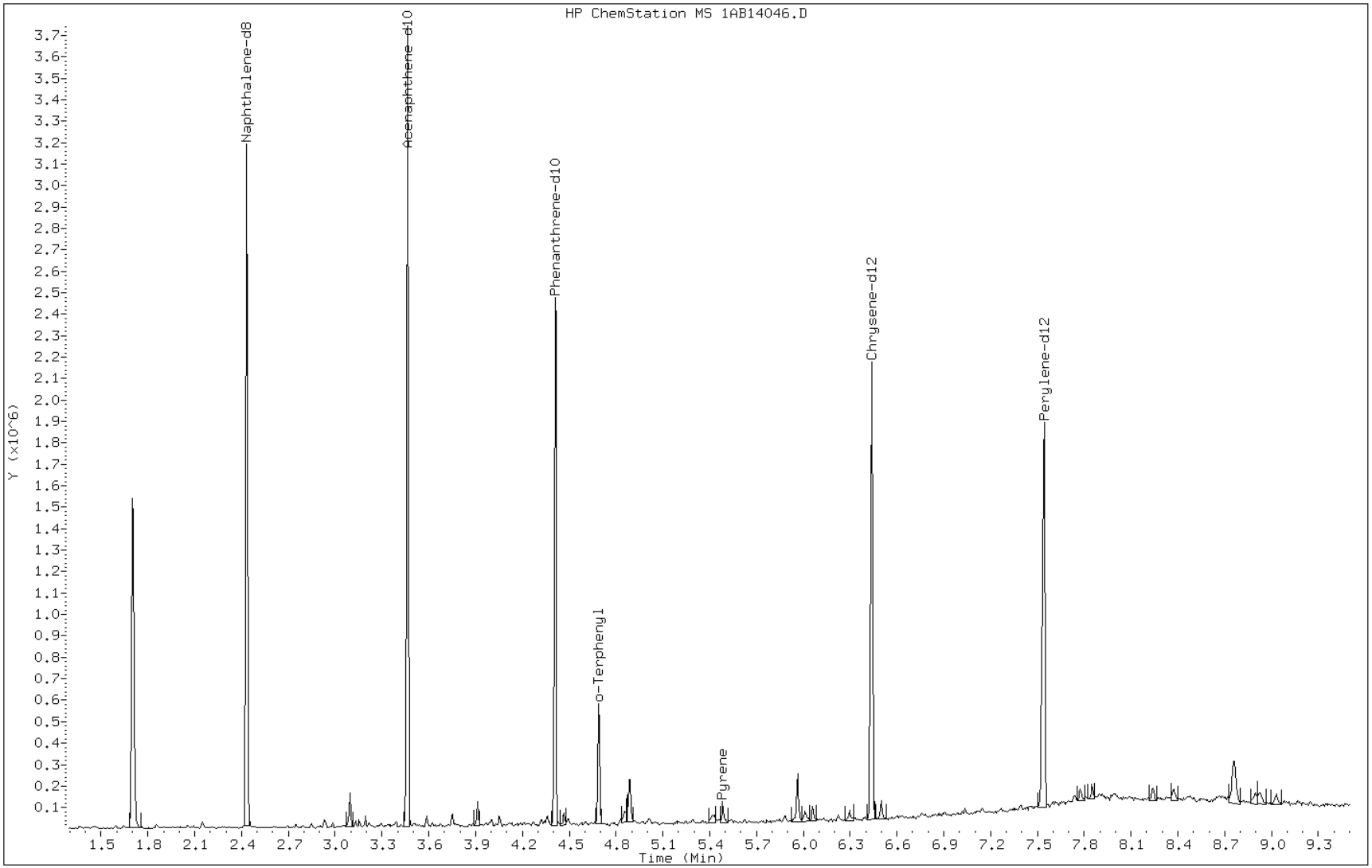
Date: 14-FEB-2013 21:11

Client ID: FM0153A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a

Operator: SCC



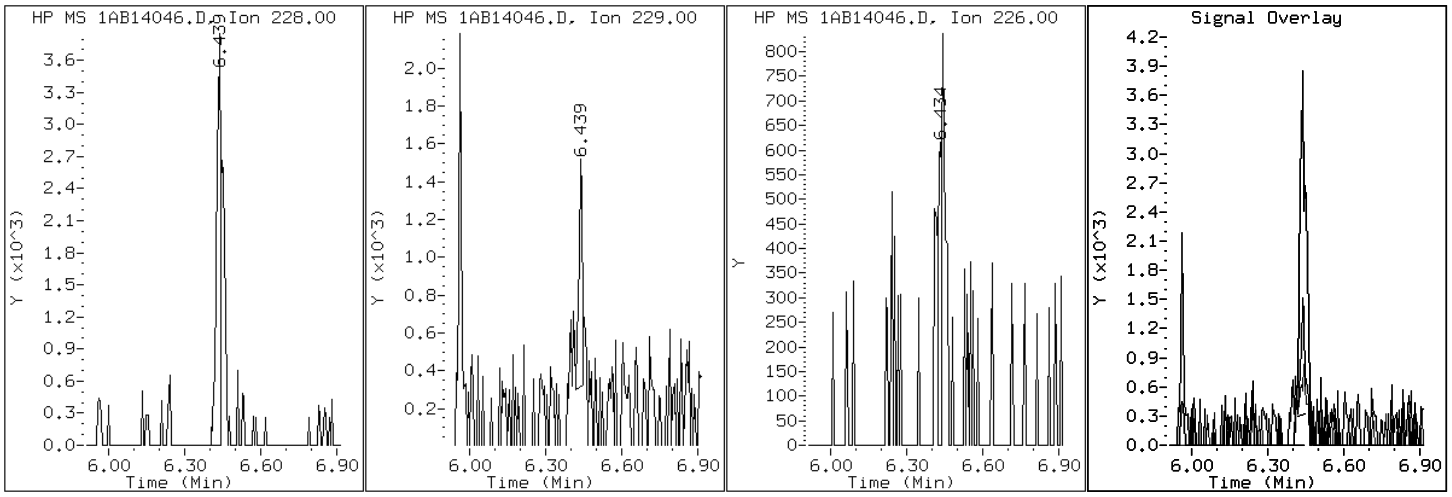
Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

Client ID: FM0153A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

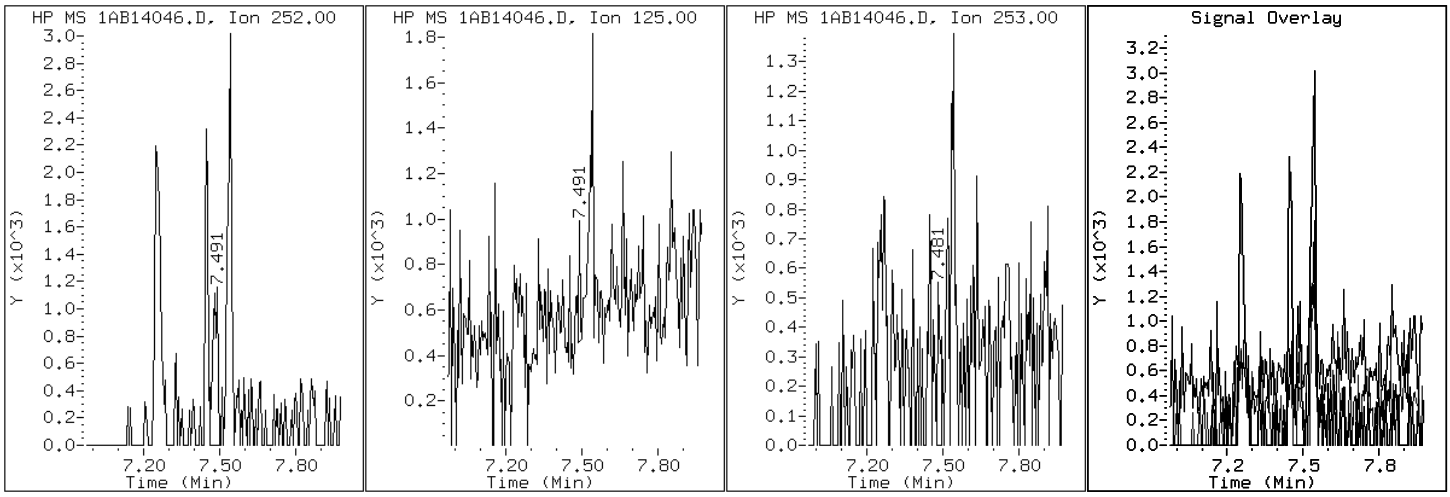
Client ID: FM0153A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a

Operator: SCC

22 Benzo(a)pyrene



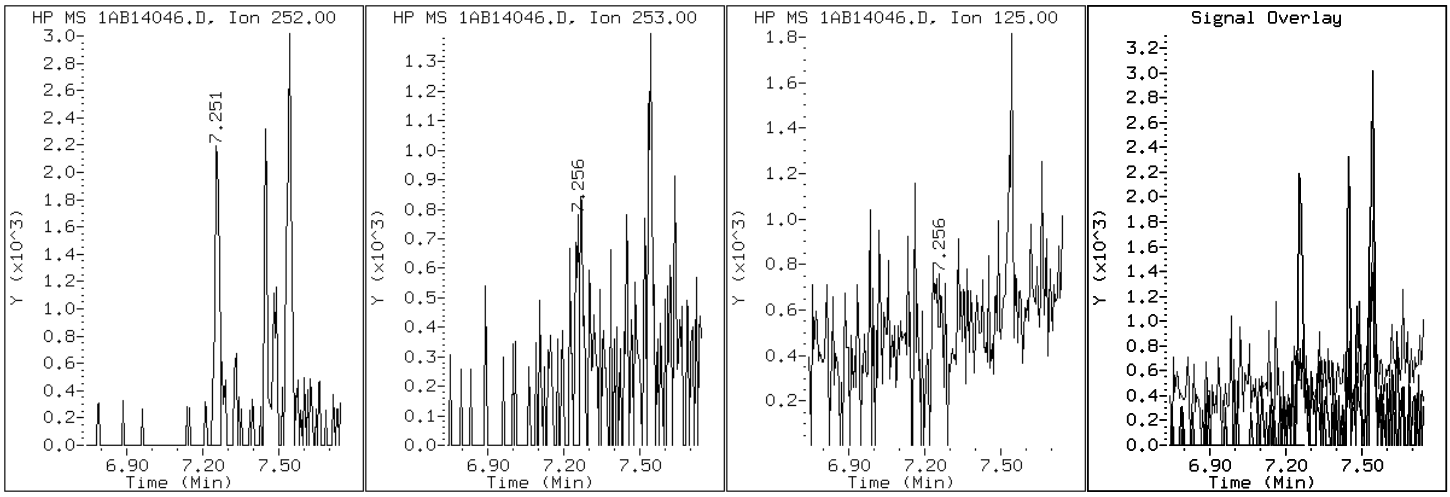
Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

Client ID: FM0153A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



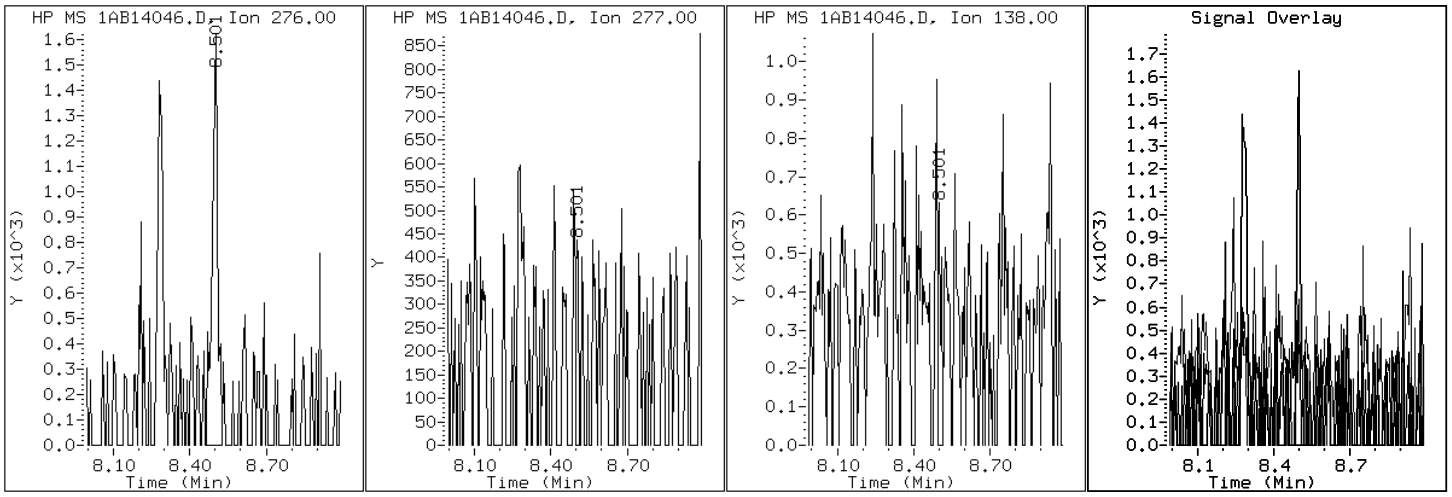
Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

Client ID: FM0153A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



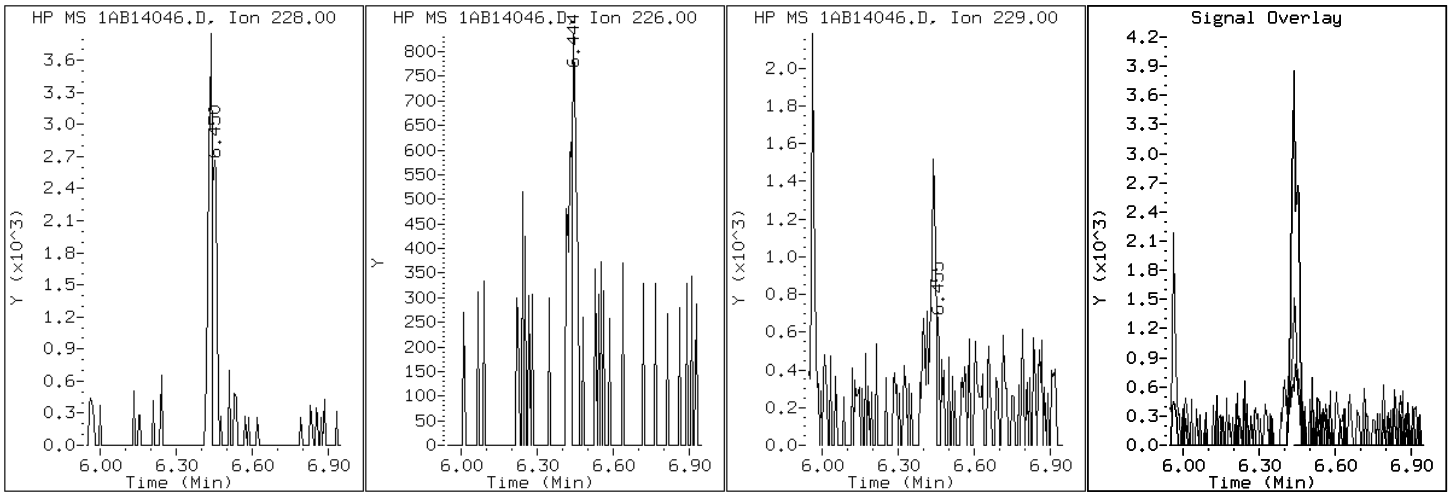
Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

Client ID: FM0153A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a Operator: SCC

19 Chrysene



Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

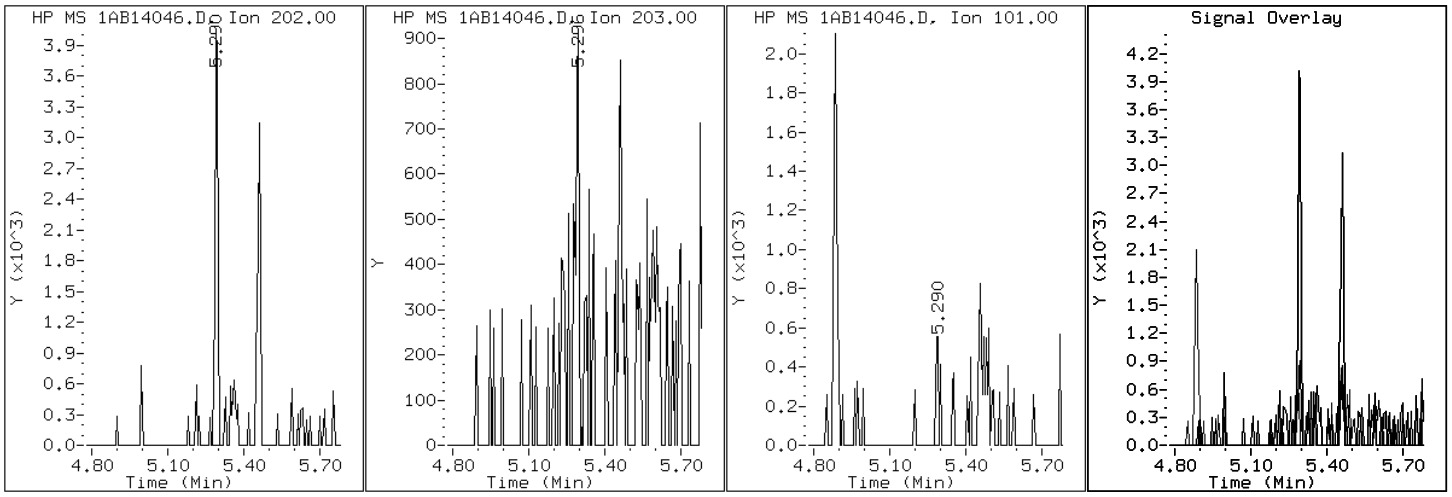
Client ID: FM0153A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a

Operator: SCC

15 Fluoranthene



Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

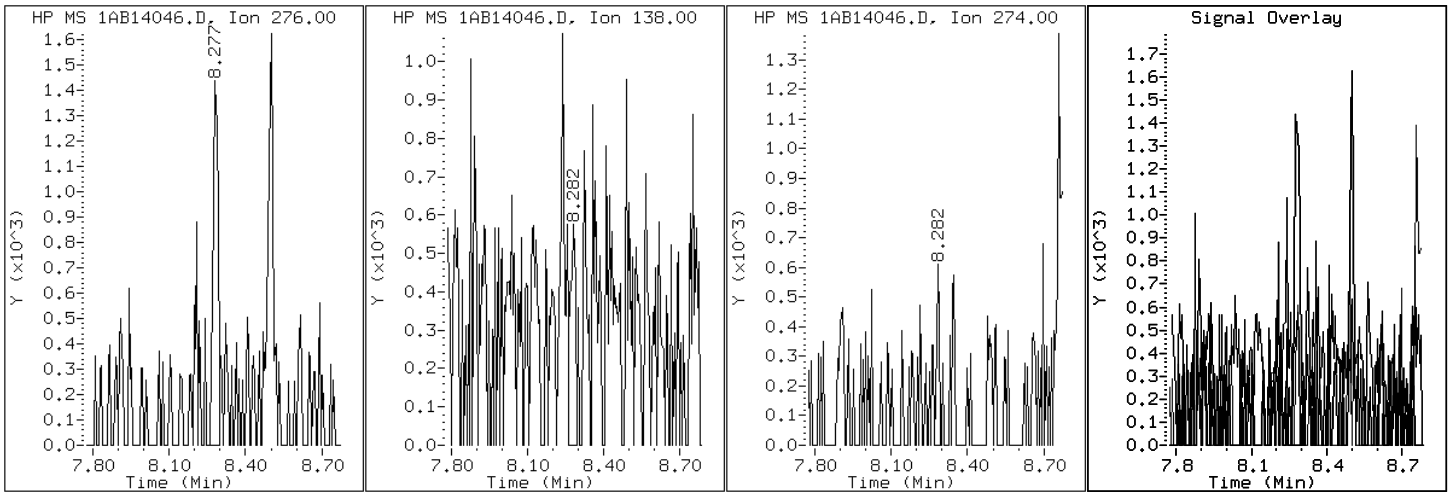
Client ID: FM0153A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



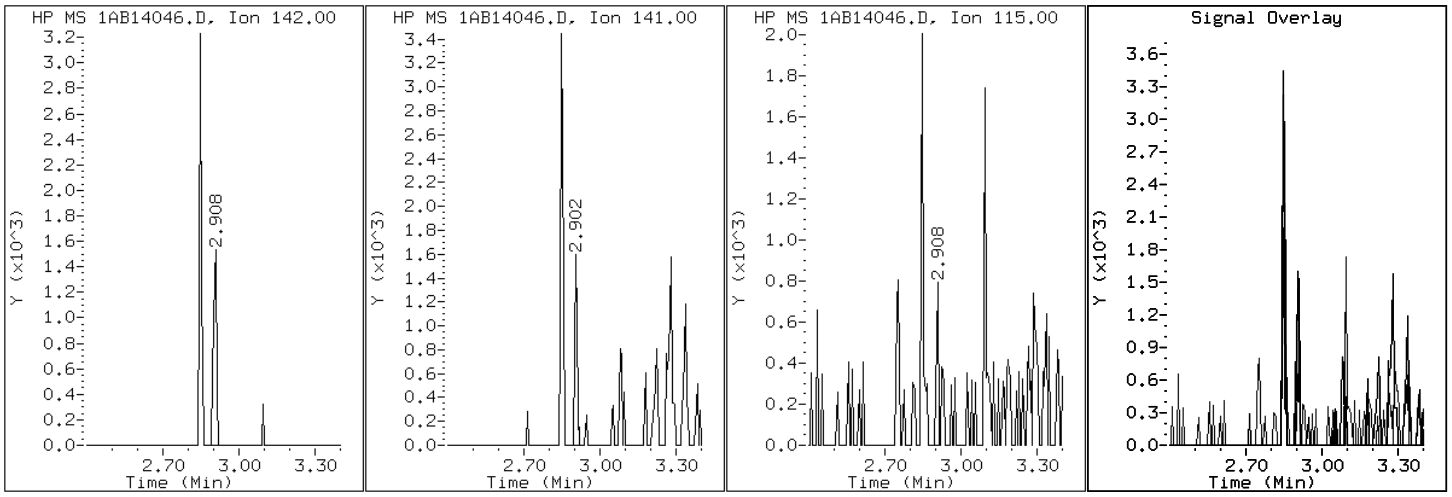
Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

Client ID: FM0153A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a Operator: SCC

4 1-Methylnaphthalene



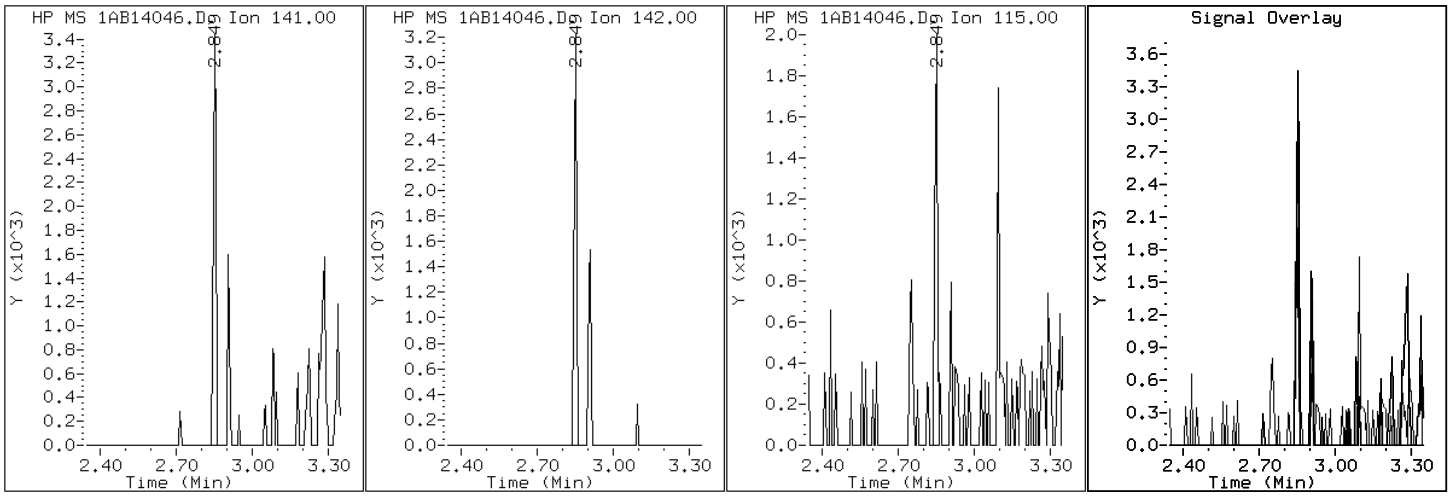
Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

Client ID: FM0153A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

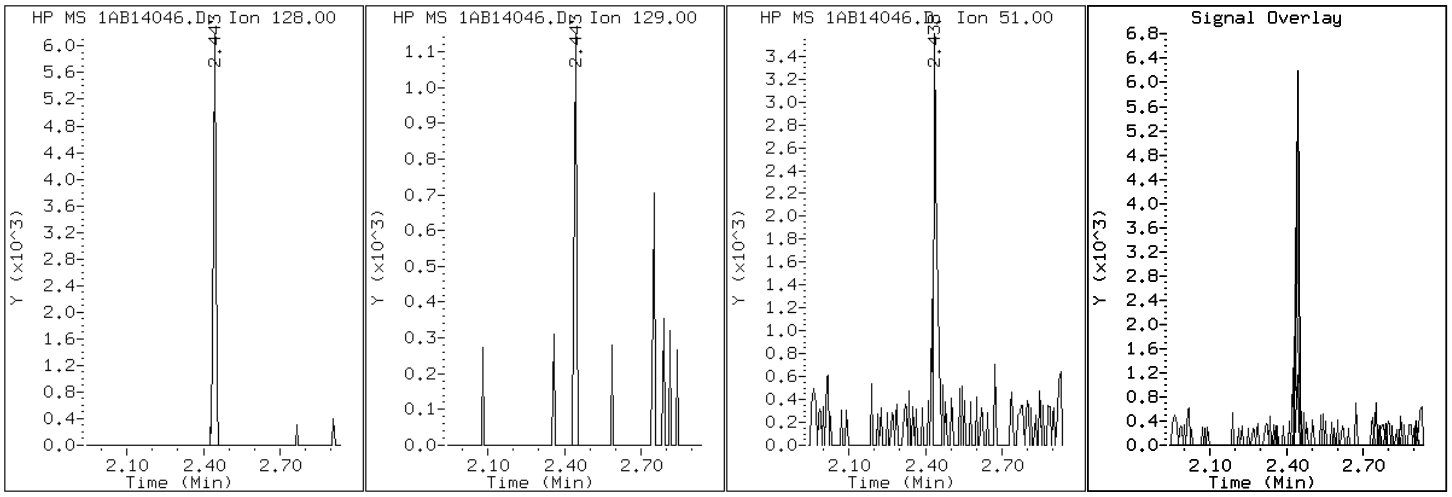
Client ID: FM0153A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a

Operator: SCC

2 Naphthalene



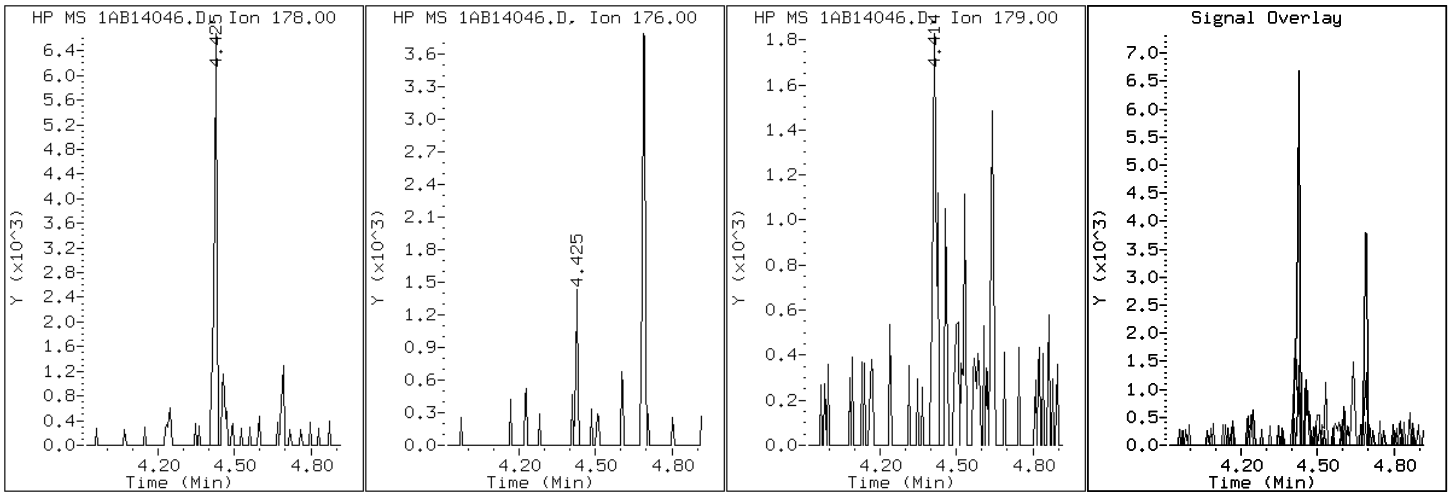
Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

Client ID: FM0153A-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a Operator: SCC

11 Phenanthrene



Data File: 1AB14046.D

Date: 14-FEB-2013 21:11

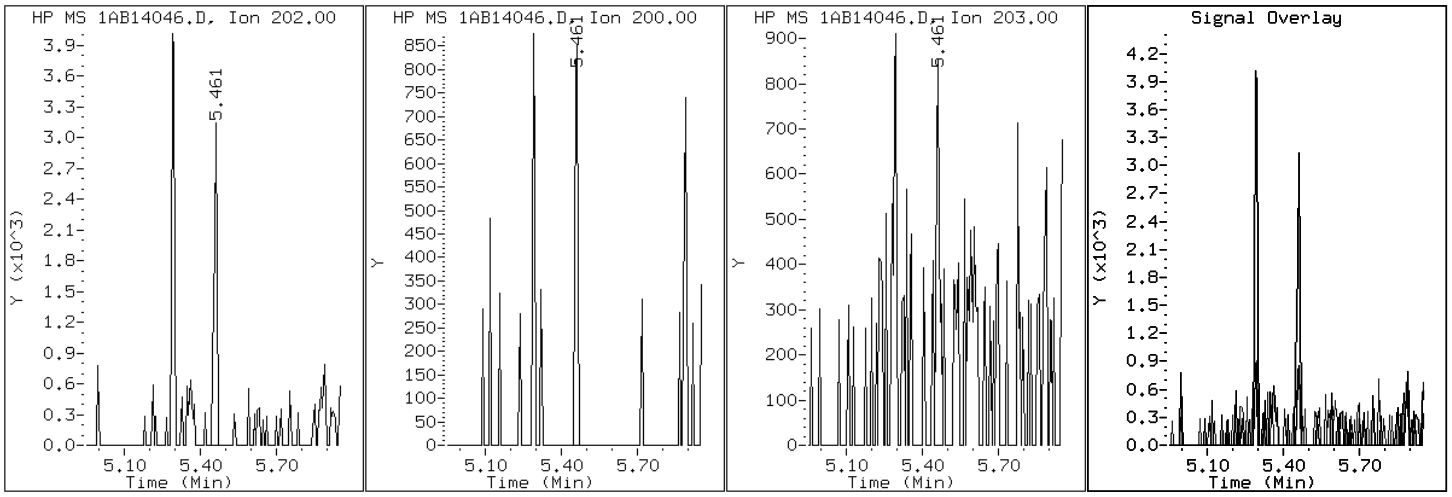
Client ID: FM0153A-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-10-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14046.D
Inj. Date and Time: 14-FEB-2013 21:11
Instrument ID: BSMA5973.i
Client ID: FM0153A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

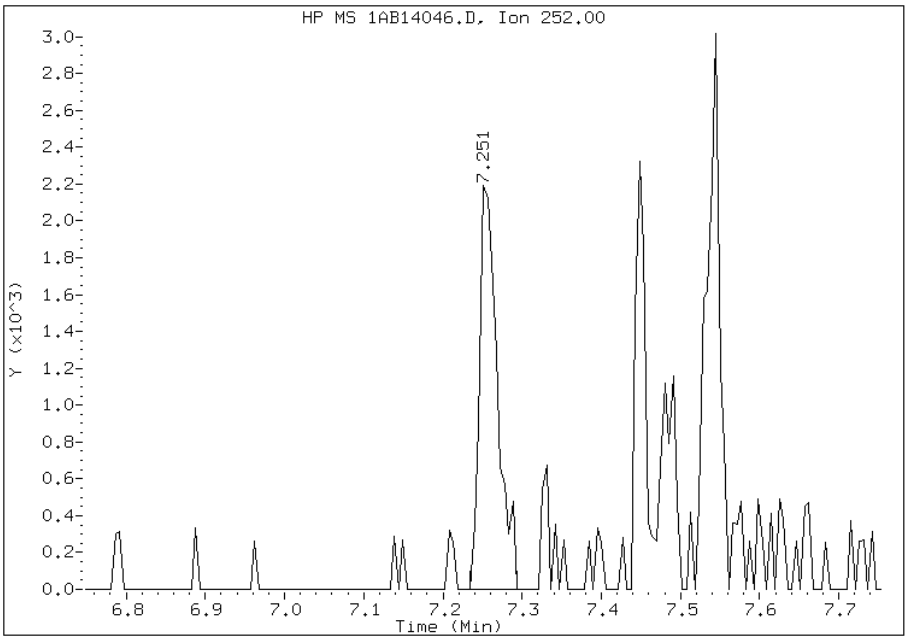
Processing Integration Results

RT: 7.25

Response: 3408

Amount: 0

Conc: 14



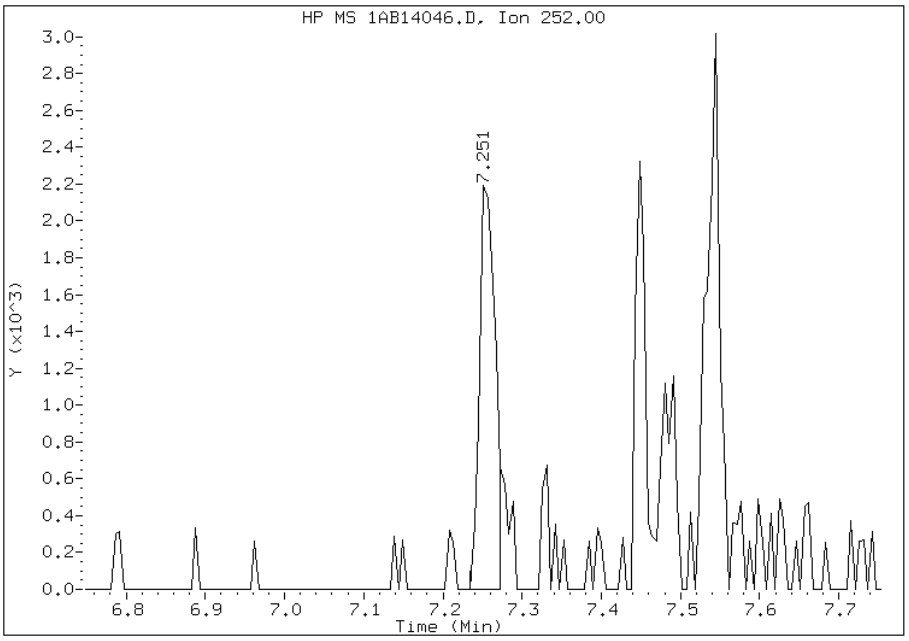
Manual Integration Results

RT: 7.25

Response: 2976

Amount: 0

Conc: 12



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14046.D
Inj. Date and Time: 14-FEB-2013 21:11
Instrument ID: BSMA5973.i
Client ID: FM0153A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/15/2013

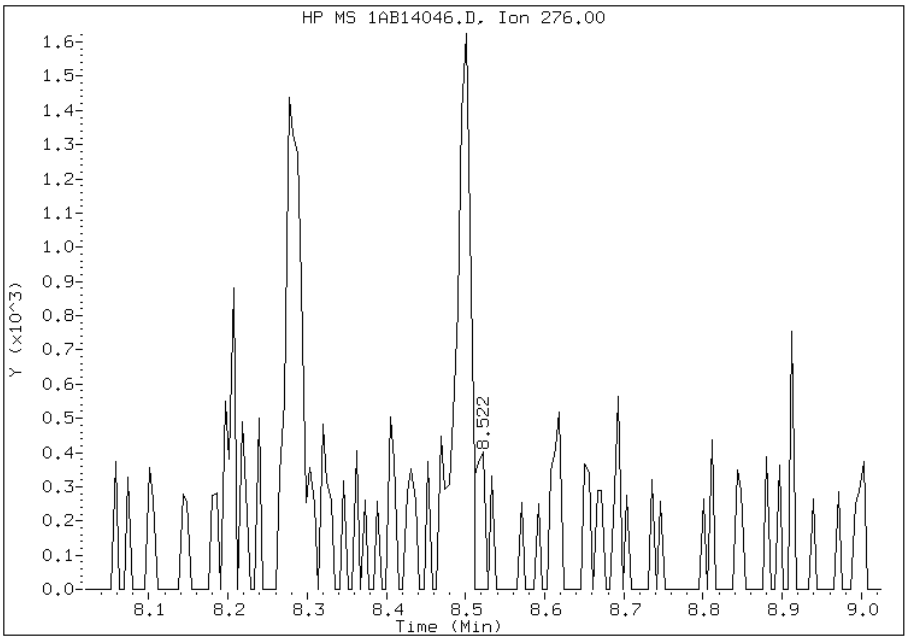
Processing Integration Results

RT: 8.52

Response: 355

Amount: 0

Conc: 2



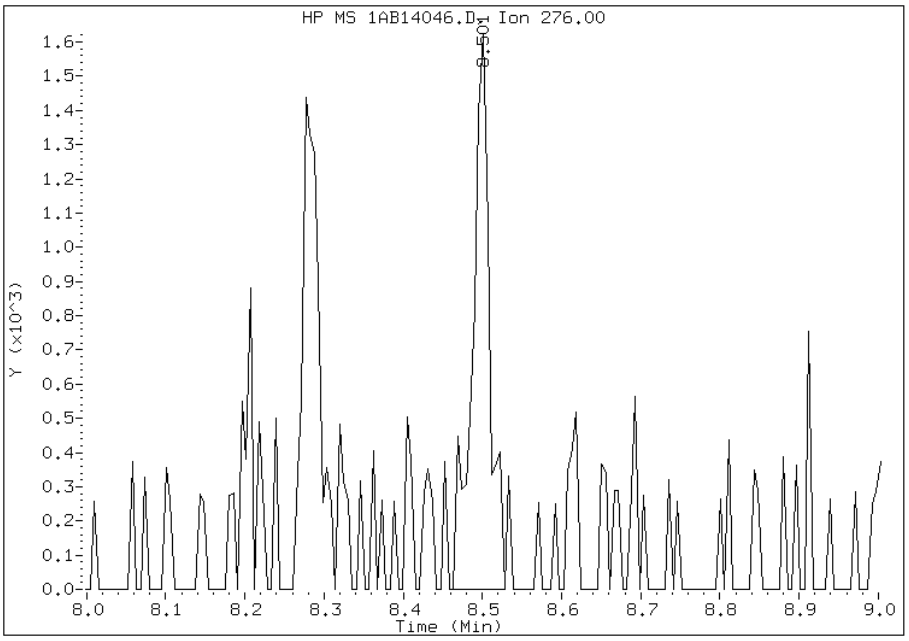
Manual Integration Results

RT: 8.50

Response: 2424

Amount: 0

Conc: 12



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:02
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: CV0748X-CS | Lab Sample ID: 680-87279-11

Matrix: Solid | Lab File ID: 1AB14047.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 08:54

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.19(g) | Date Analyzed: 02/14/2013 21:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 10.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	440	U	440	89
208-96-8	Acenaphthylene	180	U	180	22
120-12-7	Anthracene	36	J	37	19
56-55-3	Benzo[a]anthracene	140		35	17
50-32-8	Benzo[a]pyrene	80		46	23
205-99-2	Benzo[b]fluoranthene	110		54	27
191-24-2	Benzo[g,h,i]perylene	84	J	89	19
207-08-9	Benzo[k]fluoranthene	65		35	16
218-01-9	Chrysene	110		40	20
53-70-3	Dibenz(a,h)anthracene	35	J	89	18
206-44-0	Fluoranthene	200		89	18
86-73-7	Fluorene	89	U	89	18
193-39-5	Indeno[1,2,3-cd]pyrene	72	J	89	31
90-12-0	1-Methylnaphthalene	89	J	180	19
91-57-6	2-Methylnaphthalene	99	J	180	31
91-20-3	Naphthalene	76	J	180	19
85-01-8	Phenanthrene	140		35	17
129-00-0	Pyrene	150		89	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14047.D
Lab Smp Id: 680-87279-A-11-A Client Smp ID: CV0748X-CS
Inj Date : 14-FEB-2013 21:26
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-11-a
Misc Info : 680-87279-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 47
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	10.846	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.433	2.430	(1.000)	754591	40.0000	
* 6 Acenaphthene-d10	164	3.464	3.461	(1.000)	467443	40.0000	
* 10 Phenanthrene-d10	188	4.410	4.402	(1.000)	645887	40.0000	
$ 14 o-Terphenyl	230	4.688	4.685	(1.063)	18390	1.95949	578.7686
* 18 Chrysene-d12	240	6.440	6.426	(1.000)	571270	40.0000	
* 23 Perylene-d12	264	7.540	7.527	(1.000)	595957	40.0000	
2 Naphthalene	128	2.449	2.441	(1.007)	4683	0.25568	75.5200(Q)
3 2-Methylnaphthalene	141	2.850	2.847	(1.171)	3284	0.33469	98.8559
4 1-Methylnaphthalene	142	2.909	2.900	(1.195)	3330	0.29980	88.5522
11 Phenanthrene	178	4.426	4.418	(1.004)	8457	0.47954	141.6415
12 Anthracene	178	4.458	4.455	(1.011)	2197	0.12219	36.0904(Q)
13 Carbazole	167	4.618	4.610	(1.047)	1426	0.09252	27.3277(Q)
15 Fluoranthene	202	5.291	5.283	(1.200)	11659	0.66682	196.9562
16 Pyrene	202	5.462	5.454	(0.848)	10189	0.49386	145.8693

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.440	6.416	(1.000)	8350	0.48953	144.5893
19 Chrysene	228	6.456	6.448	(1.002)	6029	0.36262	107.1061
20 Benzo(b)fluoranthene	252	7.257	7.244	(0.962)	6426	0.38633	114.1099
21 Benzo(k)fluoranthene	252	7.268	7.265	(0.964)	3855	0.22167	65.4740(Q)
22 Benzo(a)pyrene	252	7.487	7.479	(0.993)	4275	0.27065	79.9413
24 Indeno(1,2,3-cd)pyrene	276	8.283	8.275	(1.098)	3047	0.24430	72.1580(M)
25 Dibenzo(a,h)anthracene	278	8.288	8.291	(1.099)	1491	0.11958	35.3196(M)
26 Benzo(g,h,i)perylene	276	8.496	8.494	(1.127)	3667	0.28379	83.8233(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14047.D

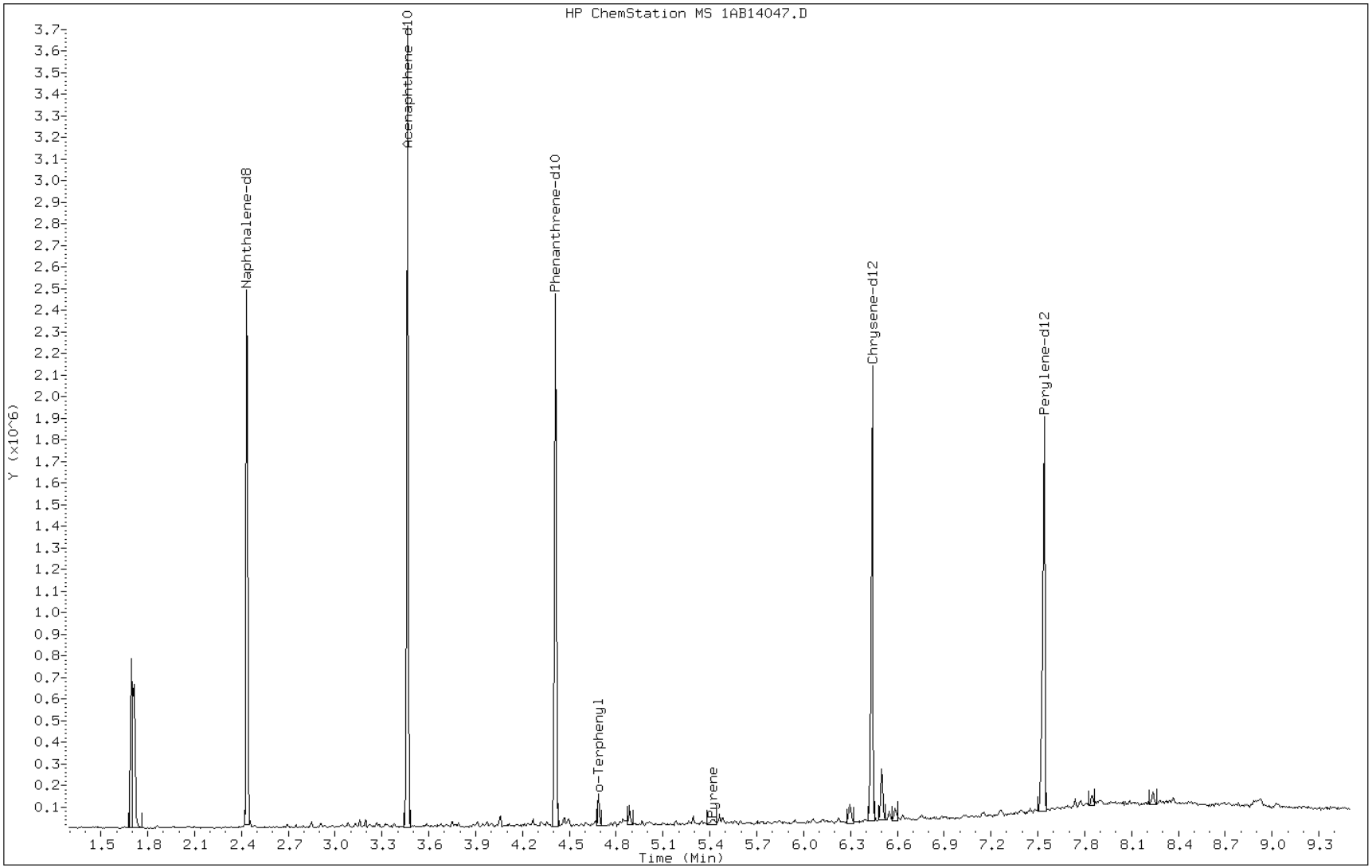
Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a

Operator: SCC



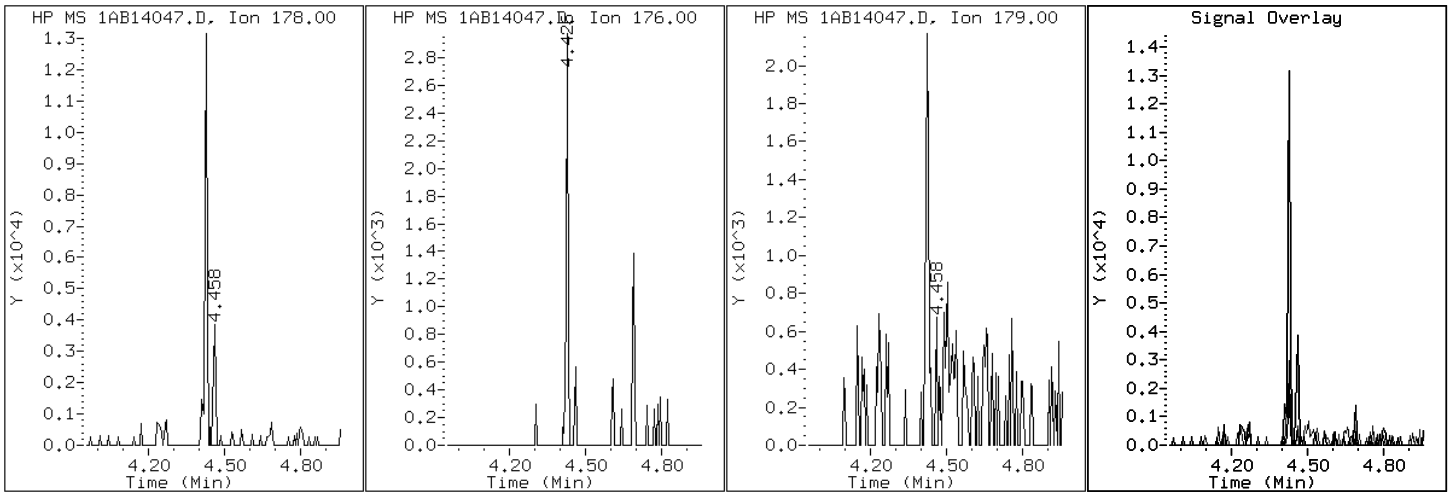
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

12 Anthracene



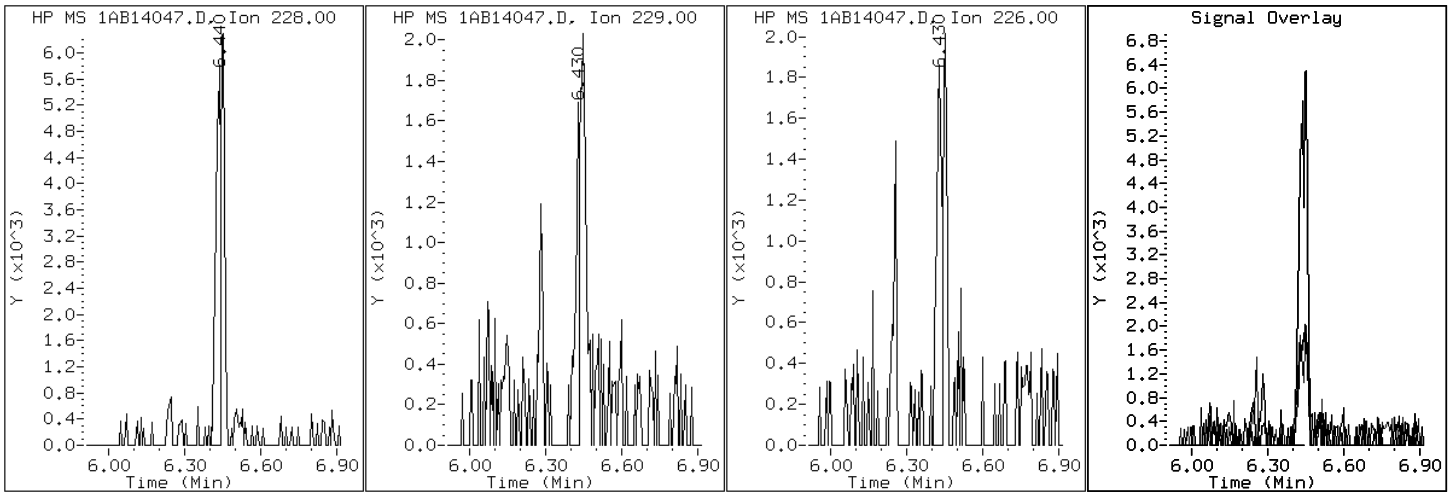
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

17 Benzo(a)anthracene



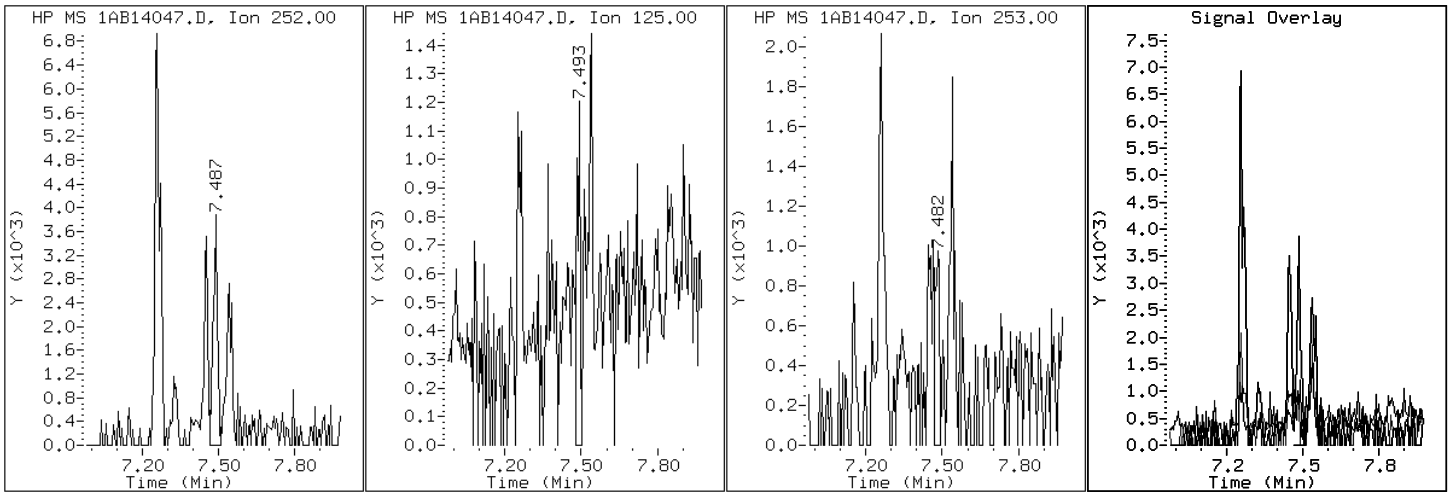
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

22 Benzo(a)pyrene



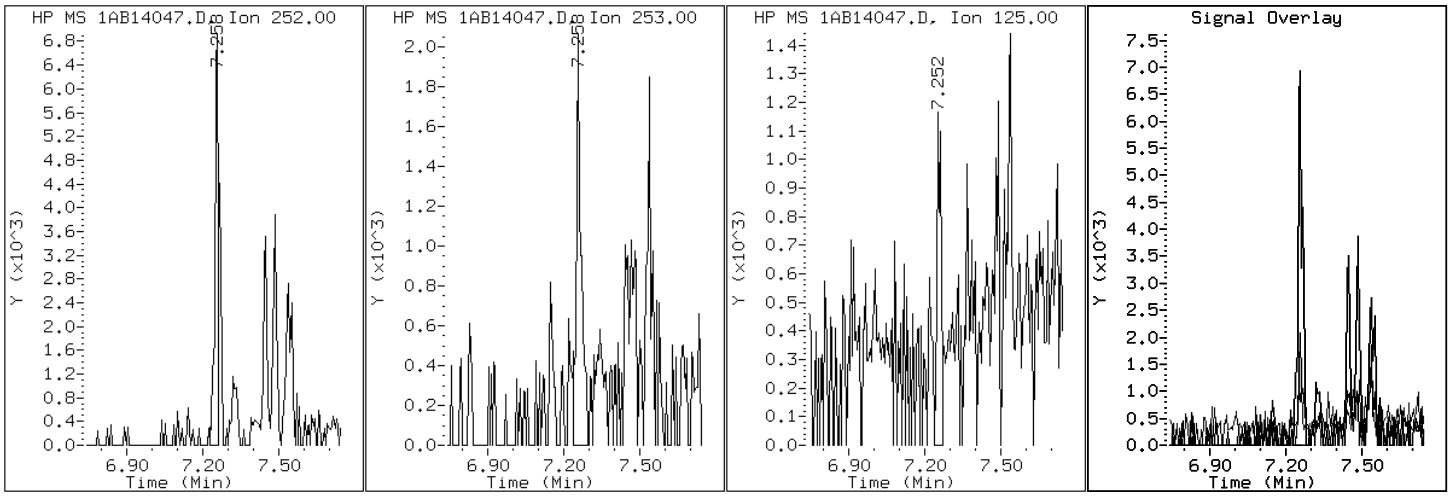
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

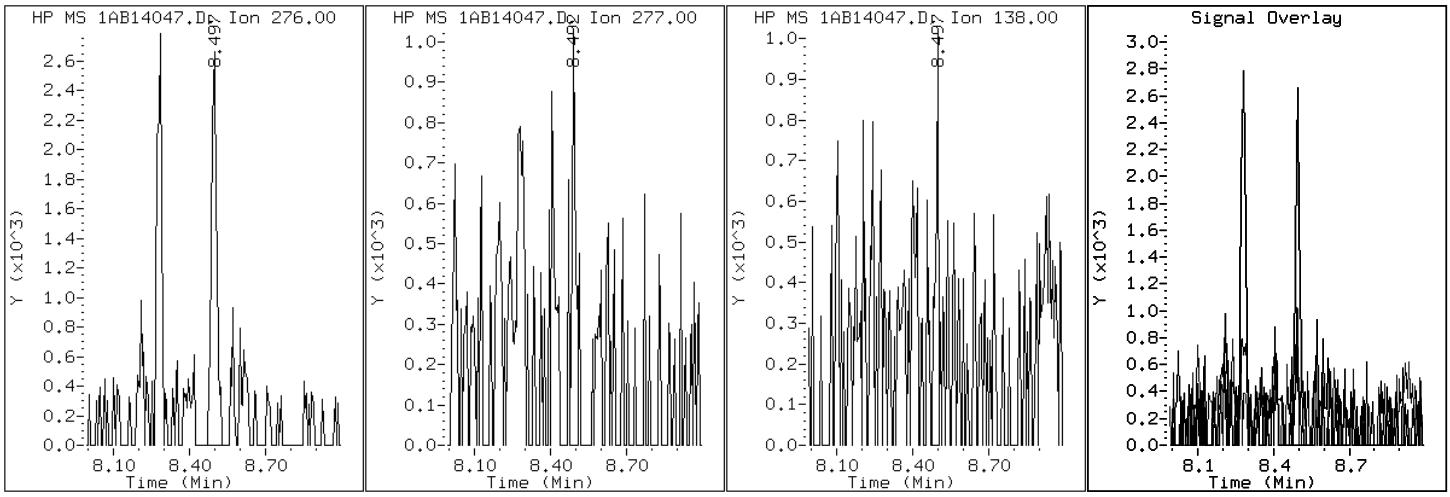
Client ID: CV0748X-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



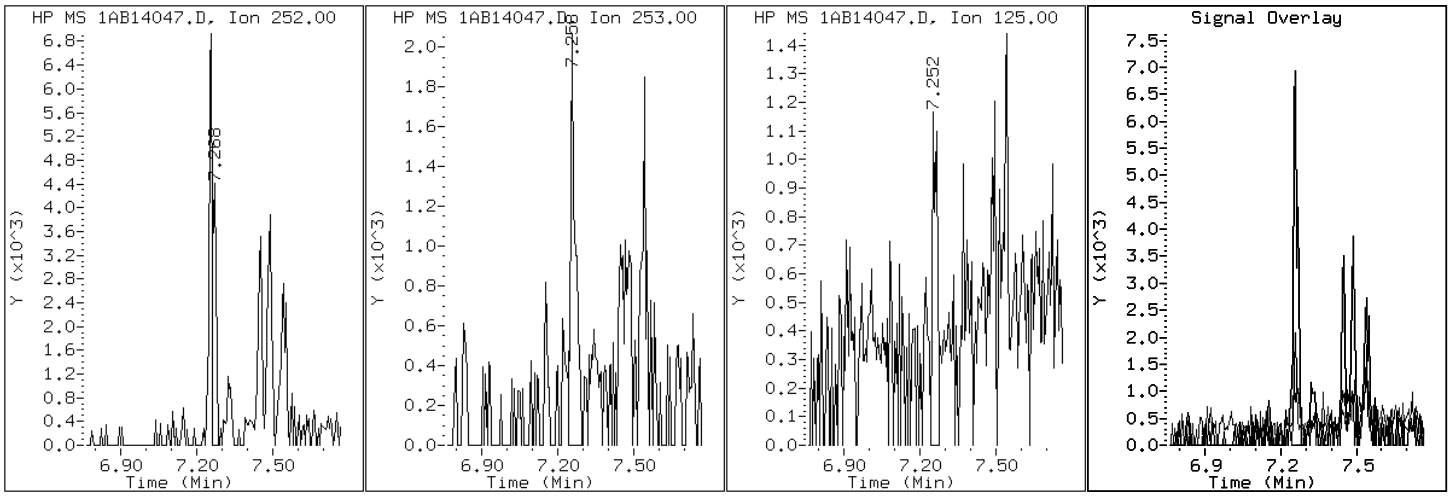
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



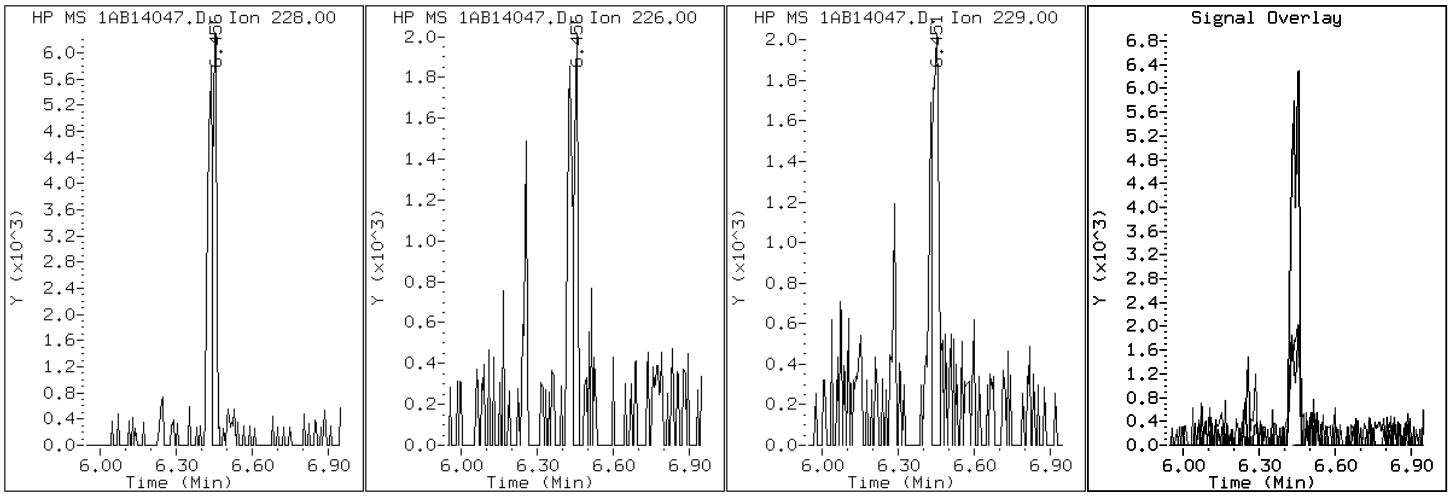
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

19 Chrysene



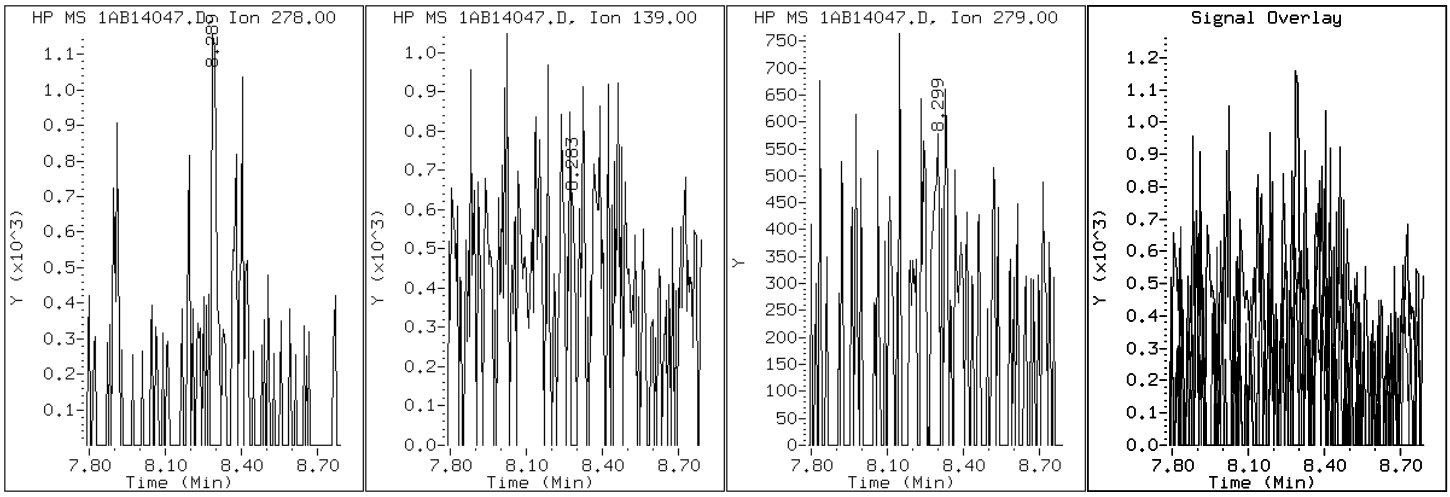
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

25 Dibenzo(a,h)anthracene



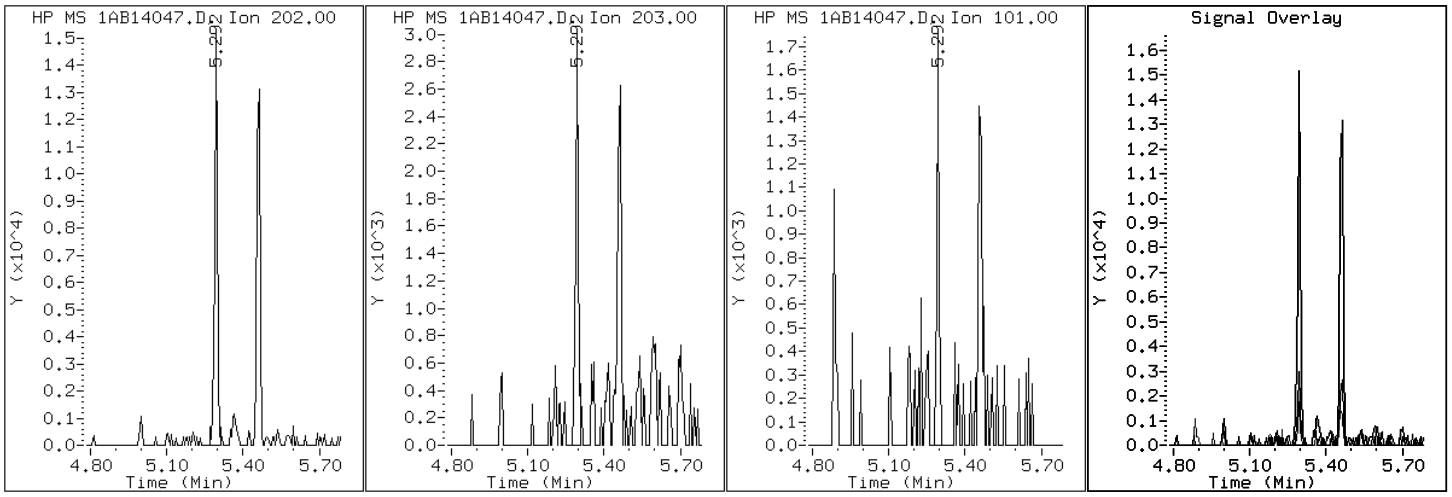
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

15 Fluoranthene



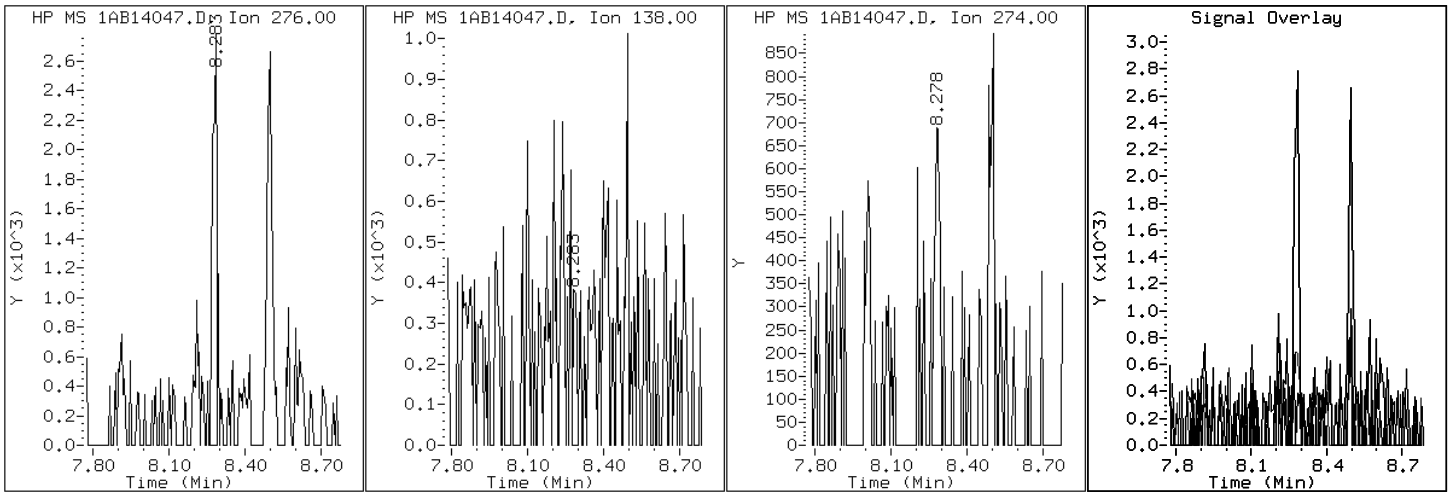
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

24 Indeno(1,2,3-cd)pyrene



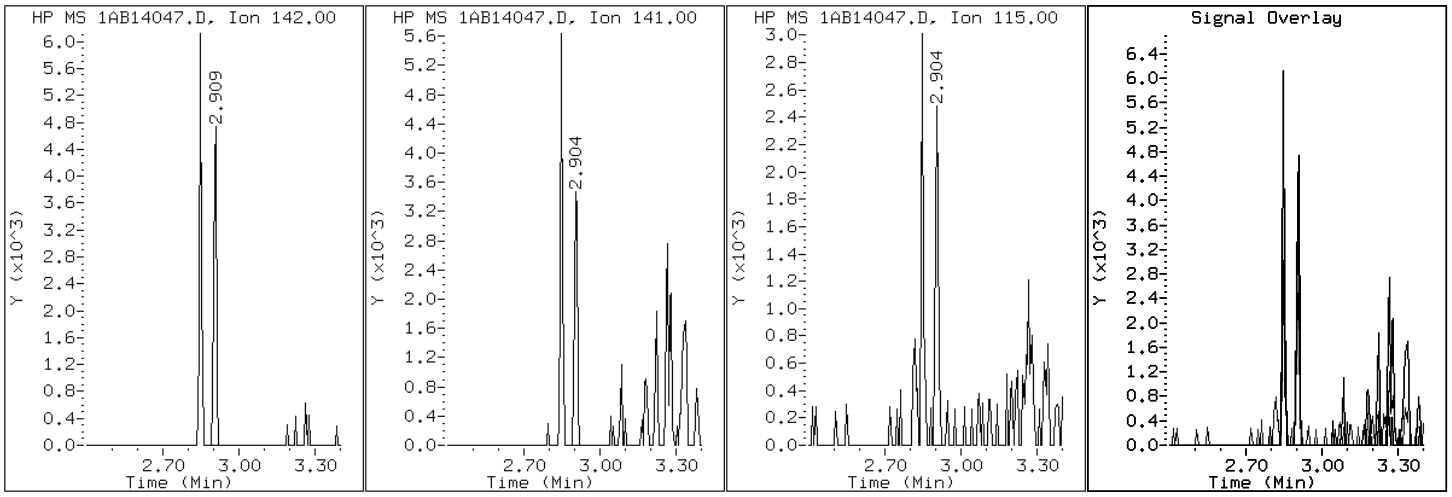
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

4 1-Methylnaphthalene



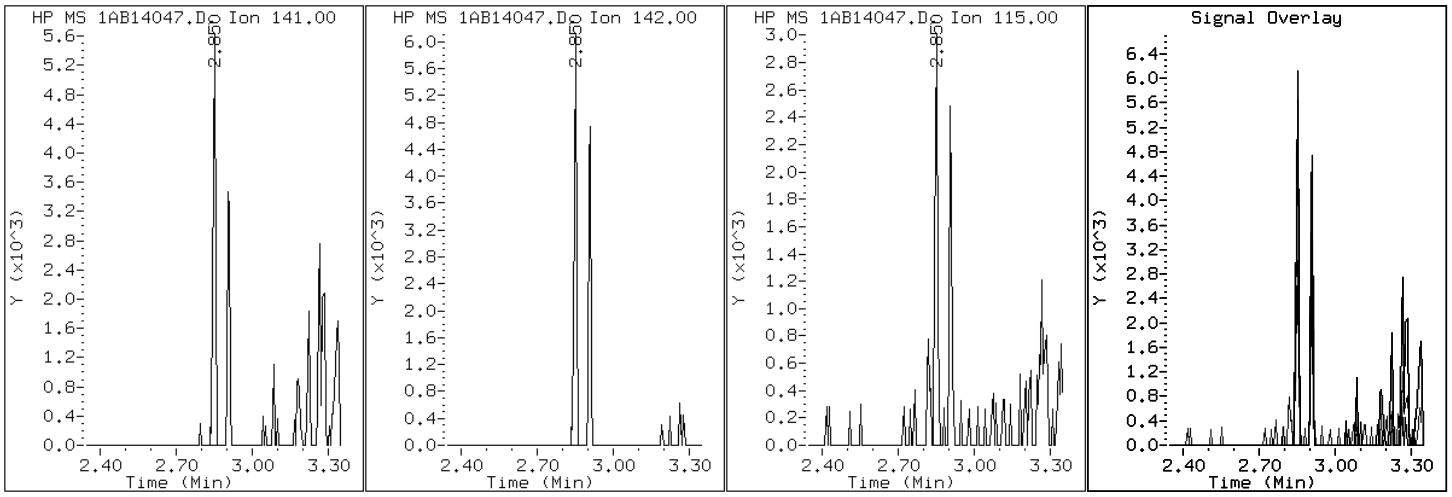
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

3 2-Methylnaphthalene



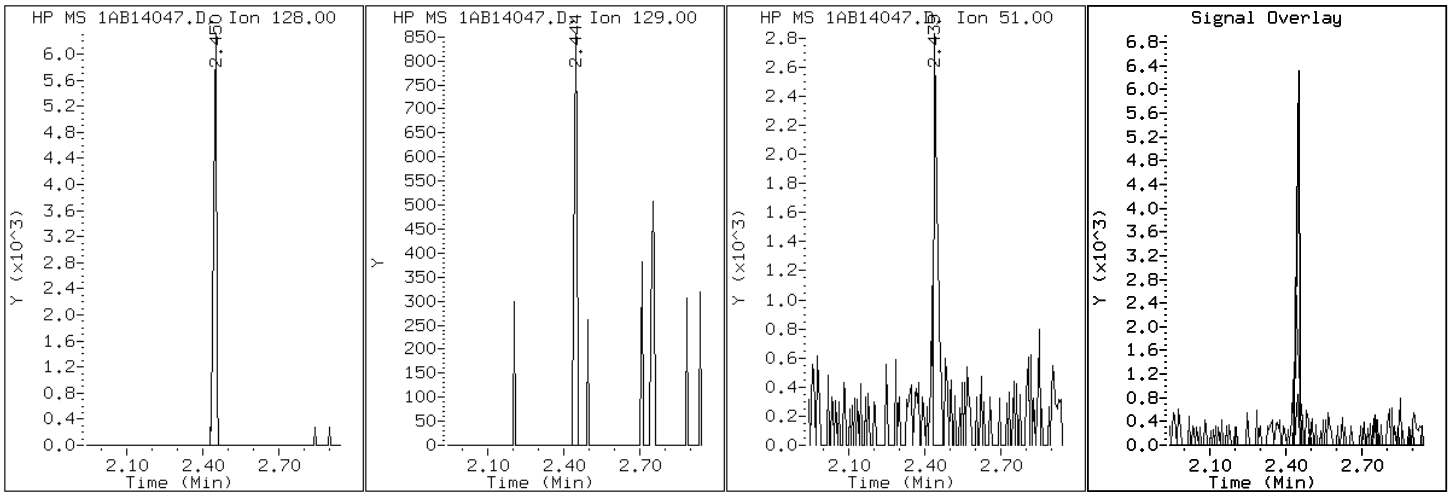
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

2 Naphthalene



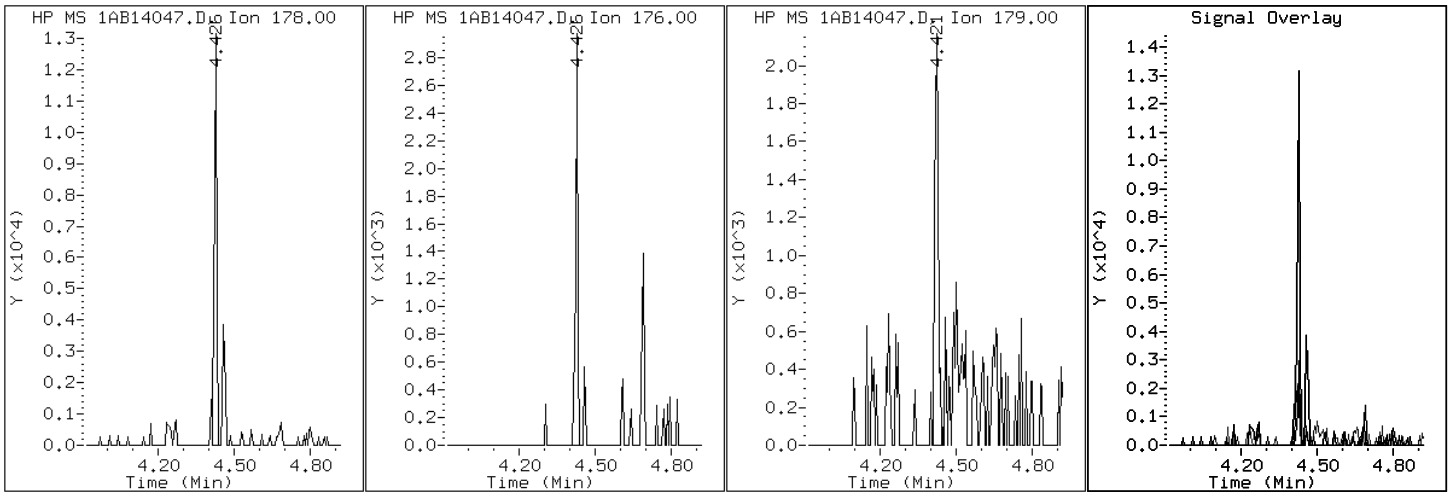
Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

Client ID: CV0748X-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a Operator: SCC

11 Phenanthrene



Data File: 1AB14047.D

Date: 14-FEB-2013 21:26

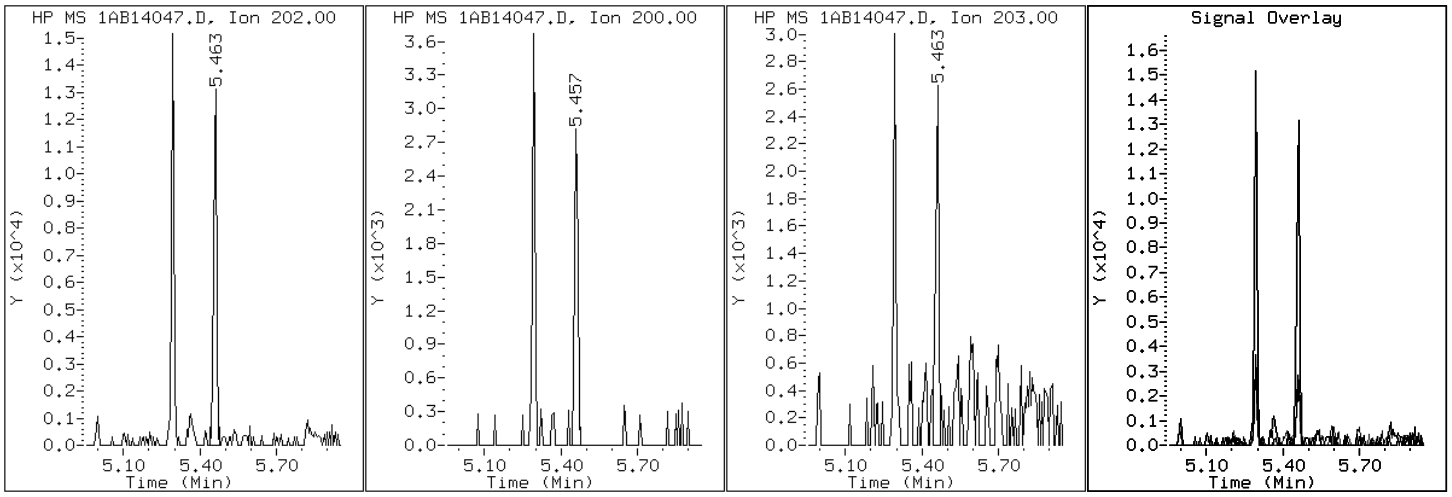
Client ID: CV0748X-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-11-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14047.D
Inj. Date and Time: 14-FEB-2013 21:26
Instrument ID: BSMA5973.i
Client ID: CV0748X-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/15/2013

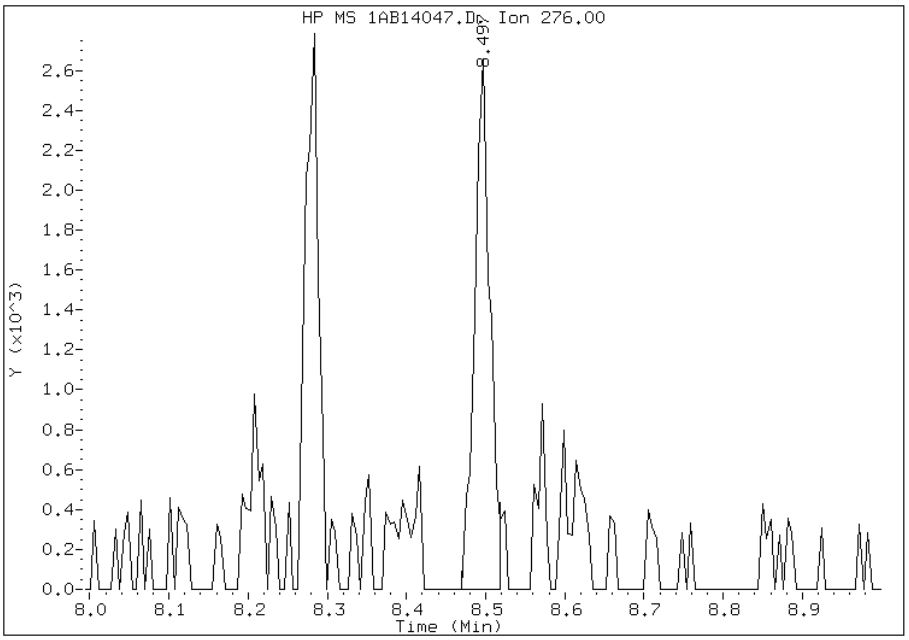
Processing Integration Results

RT: 8.50

Response: 3541

Amount: 0

Conc: 81



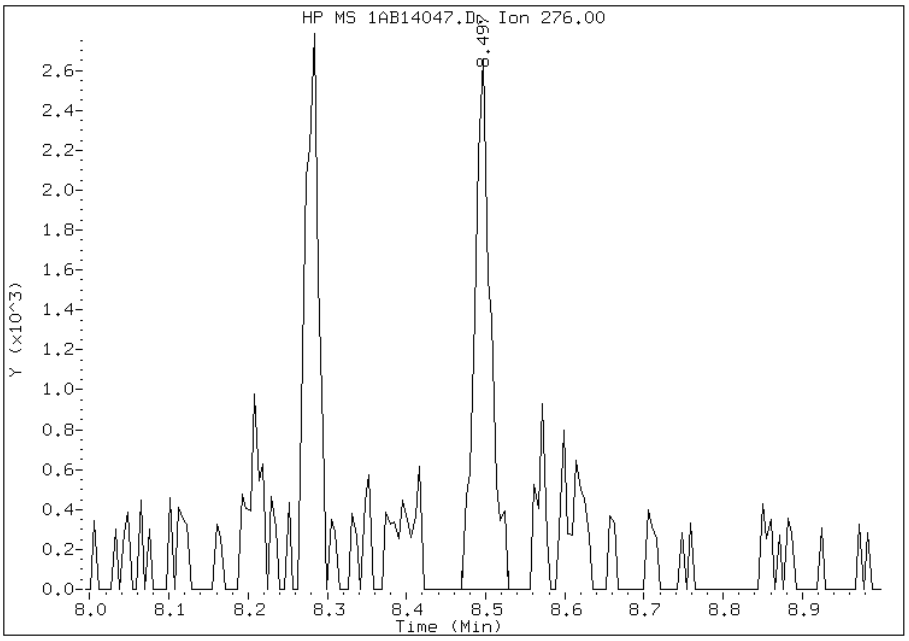
Manual Integration Results

RT: 8.50

Response: 3667

Amount: 0

Conc: 84



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14047.D
Inj. Date and Time: 14-FEB-2013 21:26
Instrument ID: BSMA5973.i
Client ID: CV0748X-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/15/2013

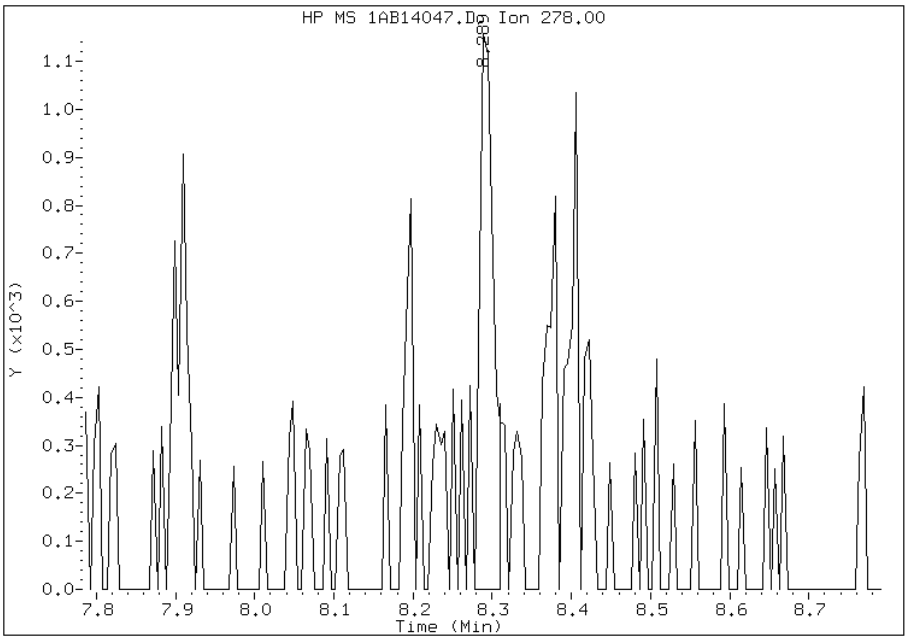
Processing Integration Results

RT: 8.29

Response: 1384

Amount: 0

Conc: 33



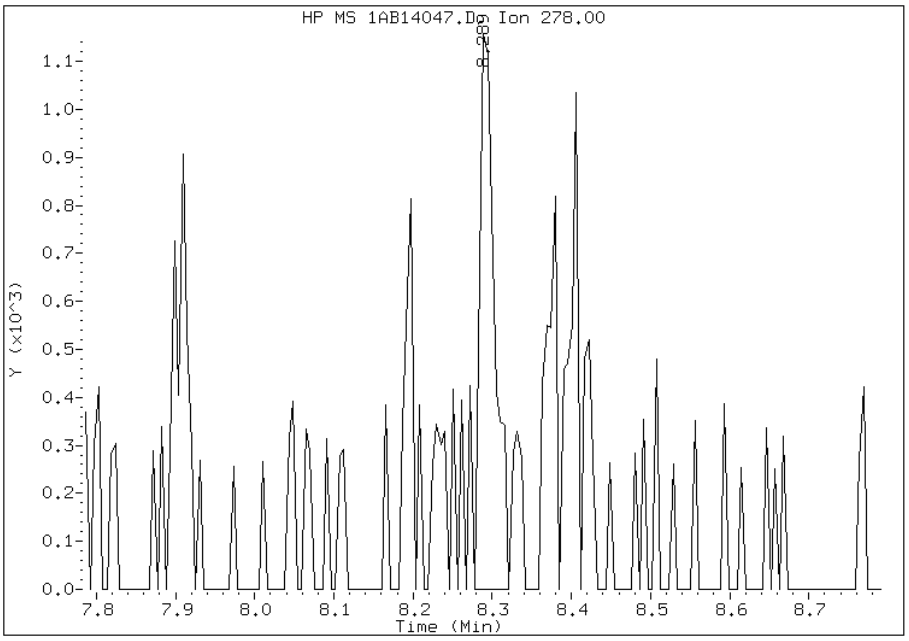
Manual Integration Results

RT: 8.29

Response: 1491

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14047.D
Inj. Date and Time: 14-FEB-2013 21:26
Instrument ID: BSMA5973.i
Client ID: CV0748X-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

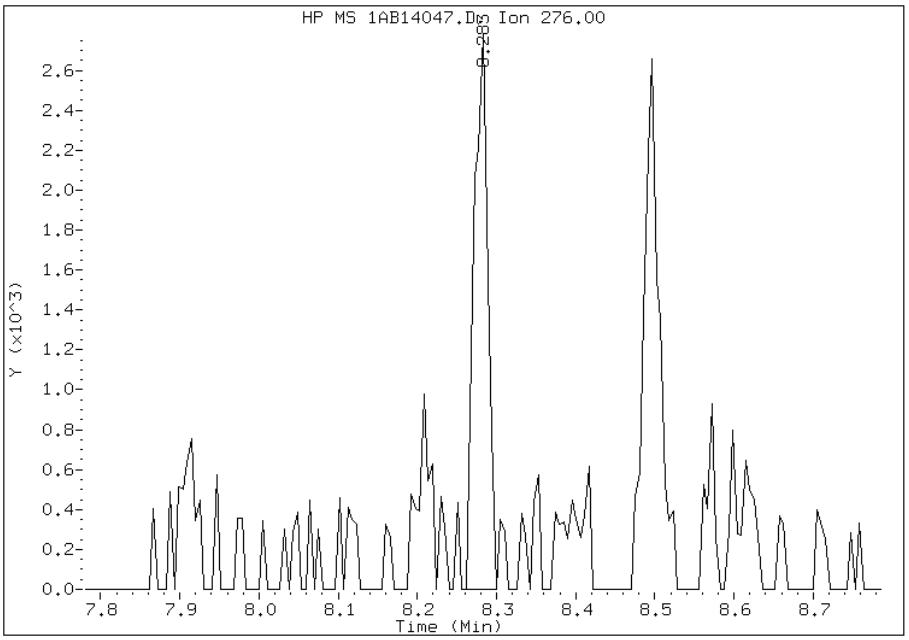
Processing Integration Results

RT: 8.28

Response: 3299

Amount: 0

Conc: 78



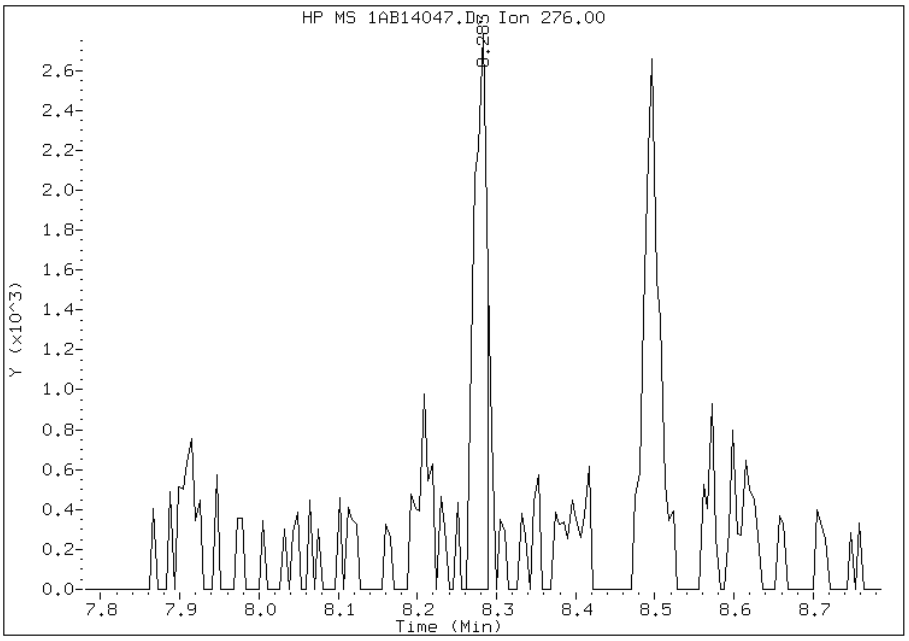
Manual Integration Results

RT: 8.28

Response: 3047

Amount: 0

Conc: 72



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: CV0748Z-CS | Lab Sample ID: 680-87279-12

Matrix: Solid | Lab File ID: 1AB14048.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:09

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.40(g) | Date Analyzed: 02/14/2013 21:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450	U	450	90
208-96-8	Acenaphthylene	180	U	180	23
120-12-7	Anthracene	24	J	38	19
56-55-3	Benzo[a]anthracene	140		36	18
50-32-8	Benzo[a]pyrene	70		47	23
205-99-2	Benzo[b]fluoranthene	110		55	27
191-24-2	Benzo[g,h,i]perylene	57	J	90	20
207-08-9	Benzo[k]fluoranthene	51		36	16
218-01-9	Chrysene	87		41	20
53-70-3	Dibenz(a,h)anthracene	29	J	90	18
206-44-0	Fluoranthene	140		90	18
86-73-7	Fluorene	90	U	90	18
193-39-5	Indeno[1,2,3-cd]pyrene	54	J	90	32
90-12-0	1-Methylnaphthalene	34	J	180	20
91-57-6	2-Methylnaphthalene	54	J	180	32
91-20-3	Naphthalene	39	J	180	20
85-01-8	Phenanthrene	88		36	18
129-00-0	Pyrene	110		90	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14048.D
Lab Smp Id: 680-87279-A-12-A Client Smp ID: CV0748Z-CS
Inj Date : 14-FEB-2013 21:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-12-a
Misc Info : 680-87279-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 48
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.400	Weight Extracted
M	13.559	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.433	2.430	(1.000)	779489	40.0000	
* 6 Acenaphthene-d10	164	3.464	3.461	(1.000)	482464	40.0000	
* 10 Phenanthrene-d10	188	4.409	4.402	(1.000)	688134	40.0000	
$ 14 o-Terphenyl	230	4.687	4.685	(1.063)	25059	2.50616	753.0612
* 18 Chrysene-d12	240	6.439	6.426	(1.000)	614993	40.0000	
* 23 Perylene-d12	264	7.540	7.527	(1.000)	584459	40.0000	
2 Naphthalene	128	2.444	2.441	(1.004)	2427	0.12828	38.5451(Q)
3 2-Methylnaphthalene	141	2.850	2.847	(1.171)	1837	0.18124	54.4590
4 1-Methylnaphthalene	142	2.908	2.900	(1.195)	1282	0.11173	33.5741
11 Phenanthrene	178	4.426	4.418	(1.004)	5487	0.29203	87.7510
12 Anthracene	178	4.458	4.455	(1.011)	1500	0.07830	23.5286
15 Fluoranthene	202	5.291	5.283	(1.200)	8917	0.47868	143.8369
16 Pyrene	202	5.462	5.454	(0.848)	8245	0.37122	111.5460
17 Benzo(a)anthracene	228	6.429	6.416	(0.998)	8351	0.45478	136.6530

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.450	6.448	(1.002)	5194	0.29019	87.1971
20 Benzo(b)fluoranthene	252	7.251	7.244	(0.962)	6142	0.37652	113.1392(M)
21 Benzo(k)fluoranthene	252	7.268	7.265	(0.964)	2905	0.17033	51.1813(M)
22 Benzo(a)pyrene	252	7.481	7.479	(0.992)	3592	0.23188	69.6774
24 Indeno(1,2,3-cd)pyrene	276	8.272	8.275	(1.097)	2205	0.18027	54.1678(M)
25 Dibenzo(a,h)anthracene	278	8.288	8.291	(1.099)	1188	0.09715	29.1927(H)
26 Benzo(g,h,i)perylene	276	8.496	8.494	(1.127)	2424	0.19129	57.4787(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14048.D

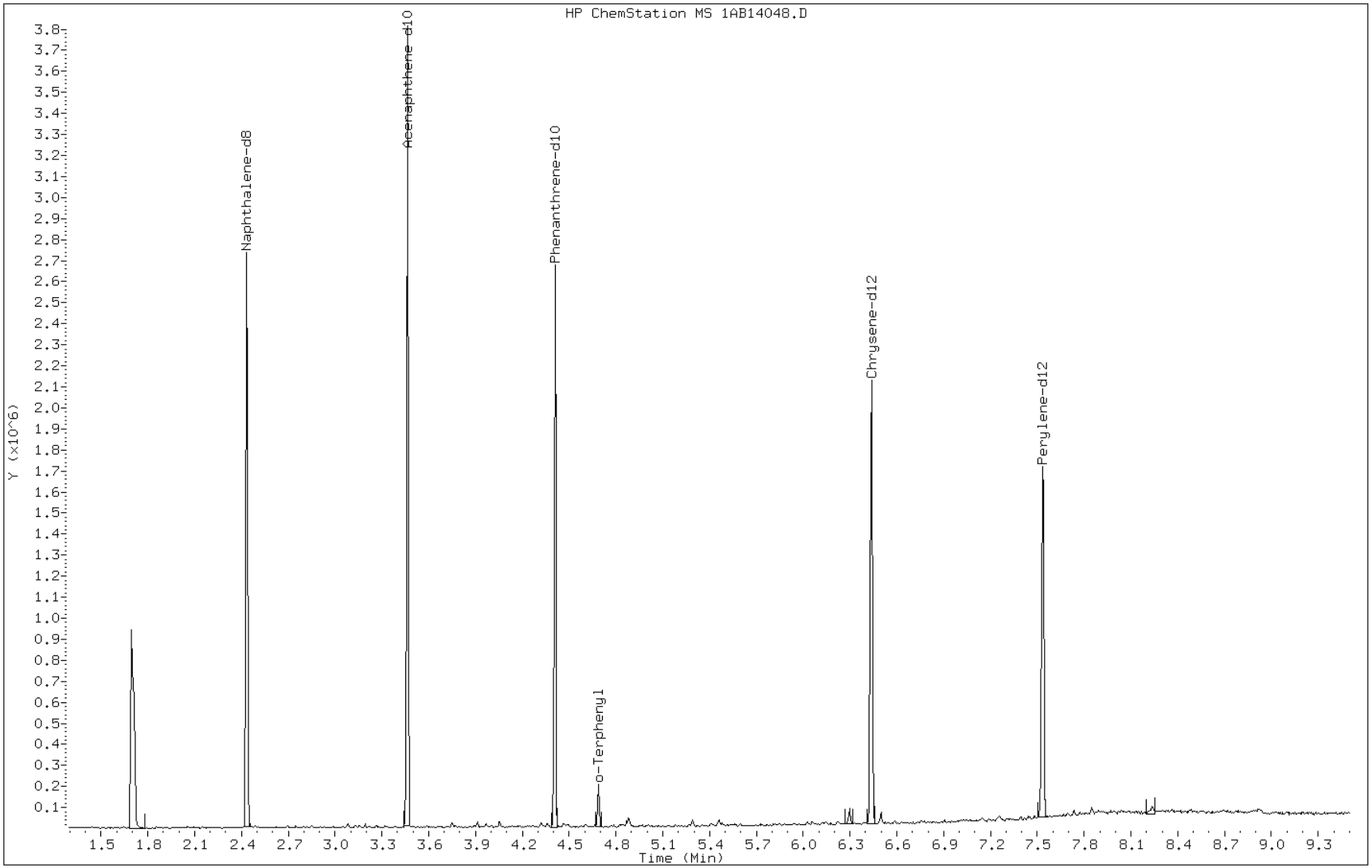
Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a

Operator: SCC



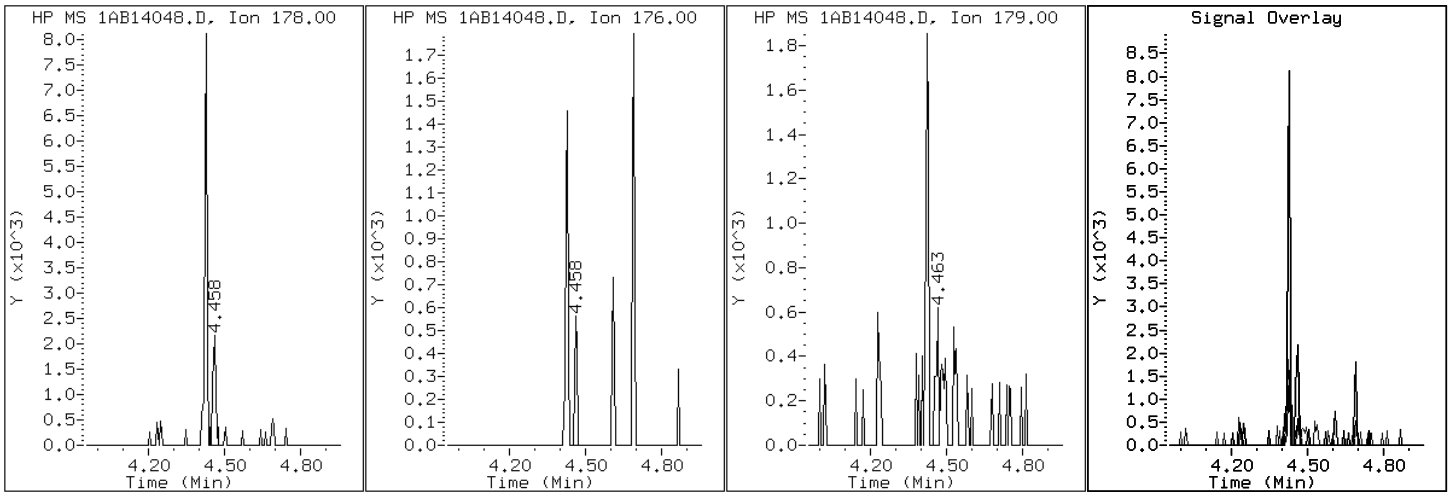
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

12 Anthracene



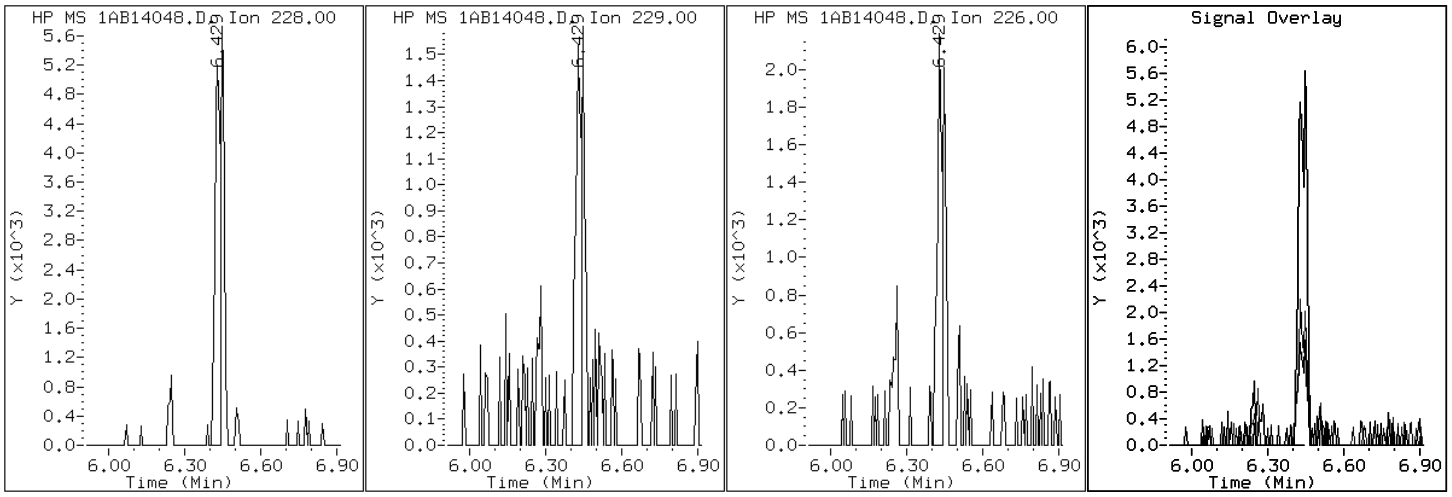
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

17 Benzo(a)anthracene



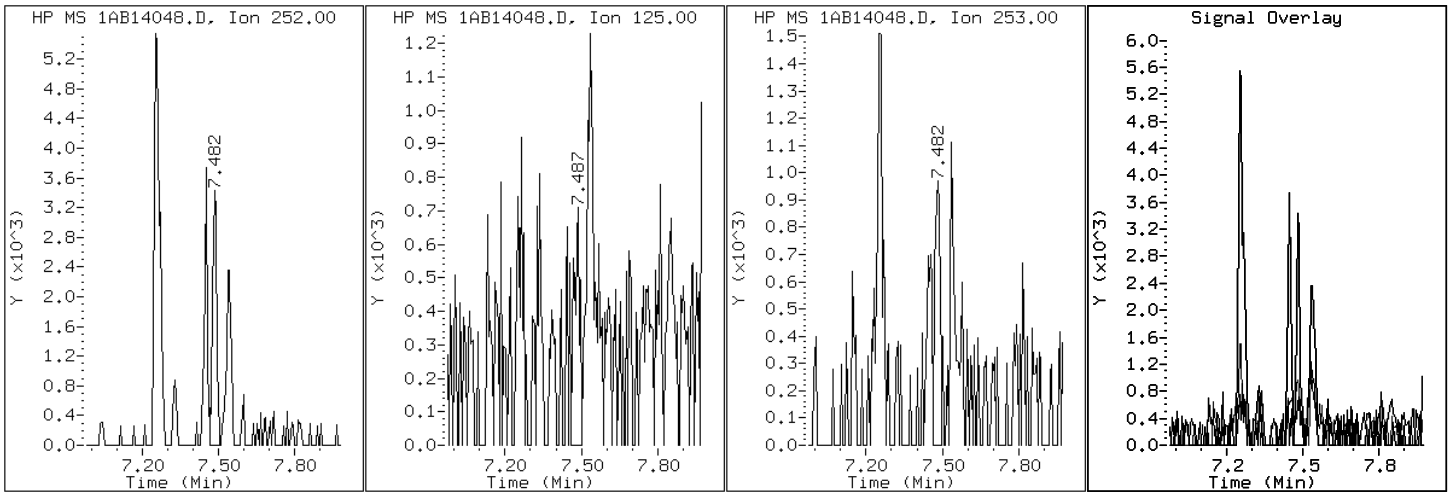
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

22 Benzo(a)pyrene



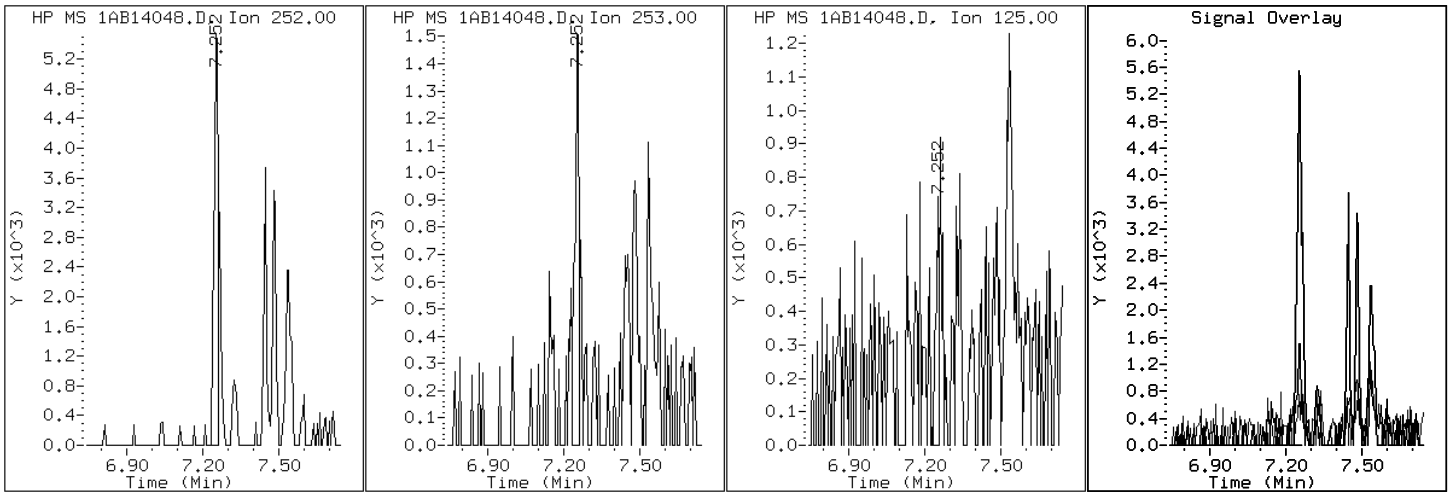
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



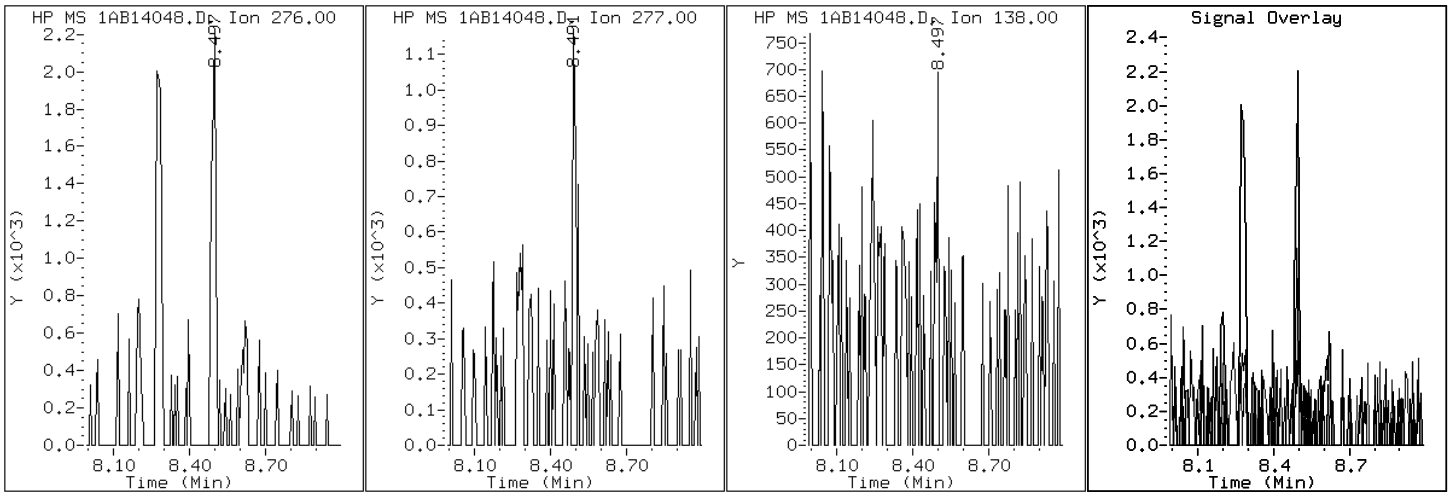
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

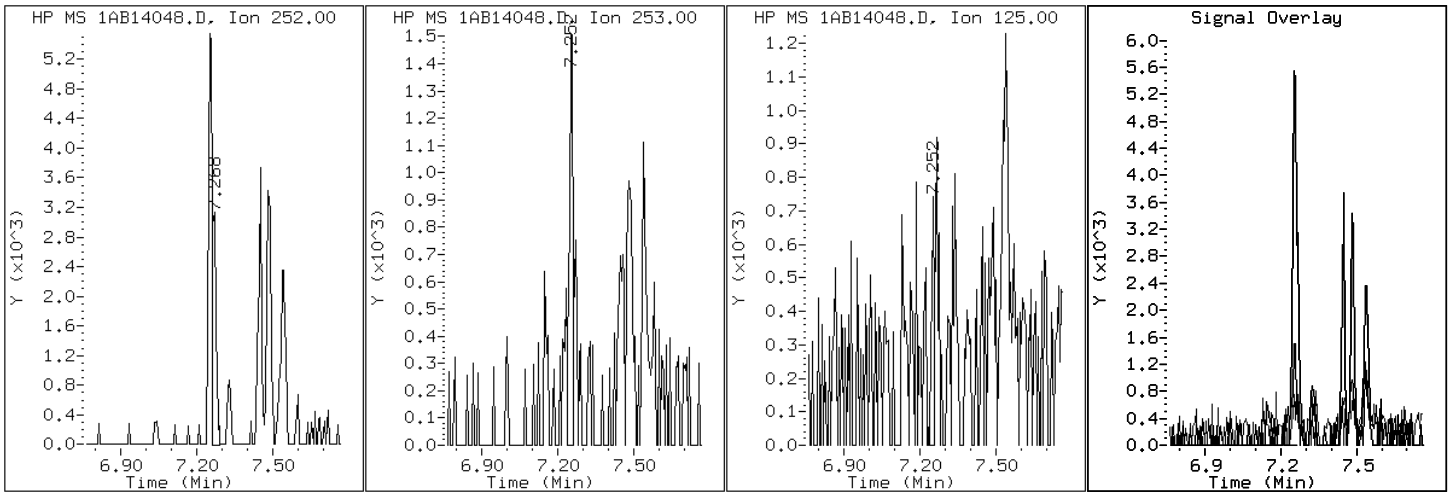
Client ID: CV0748Z-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



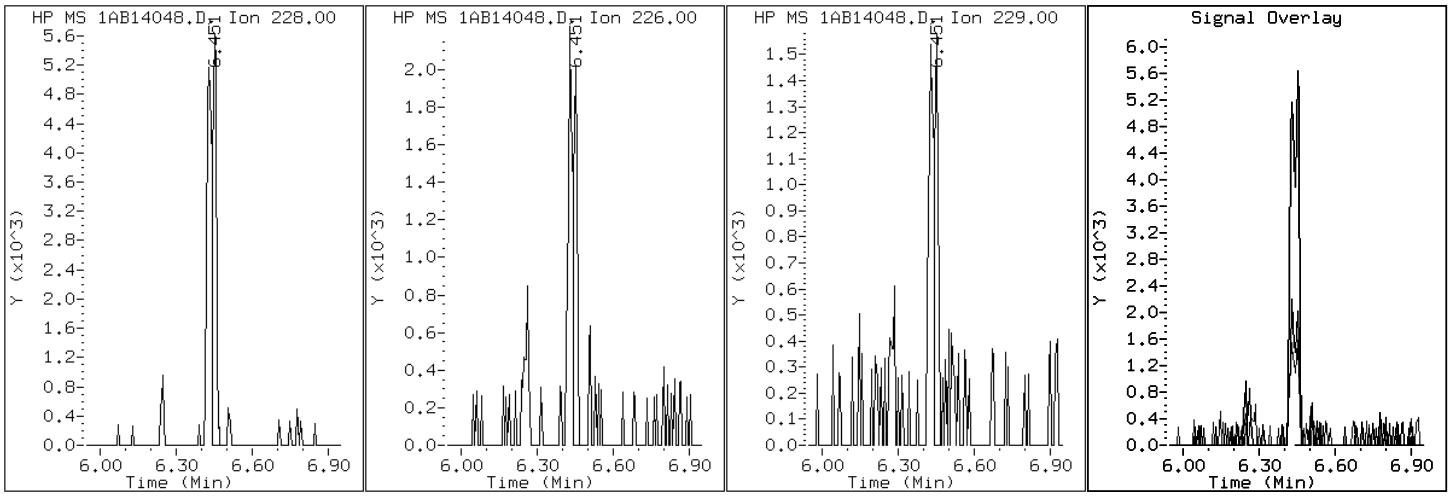
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

19 Chrysene



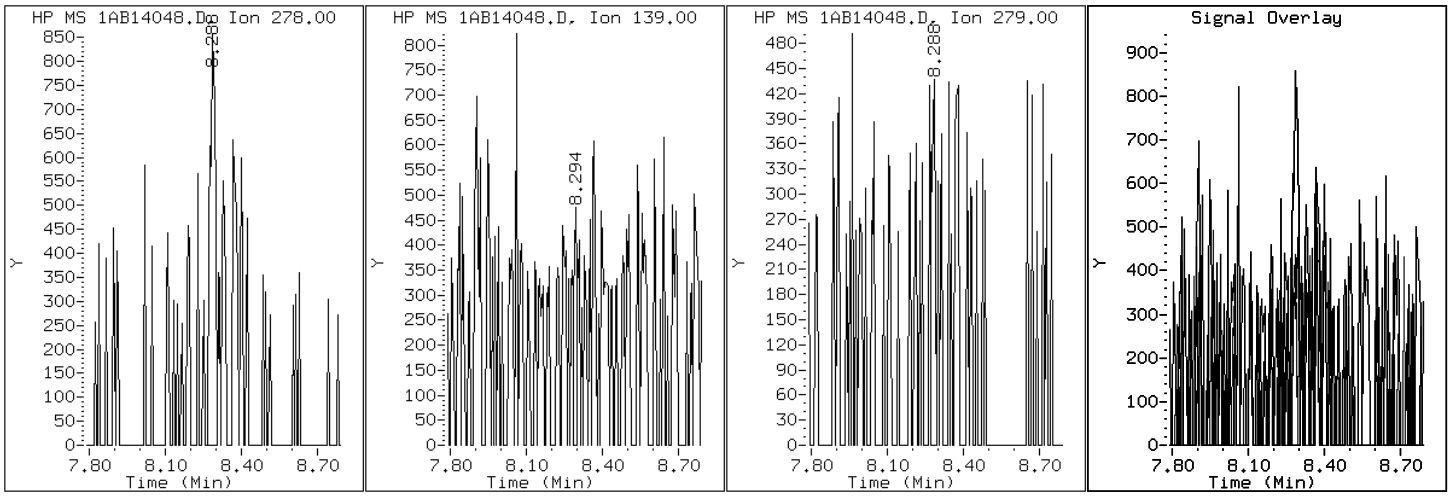
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



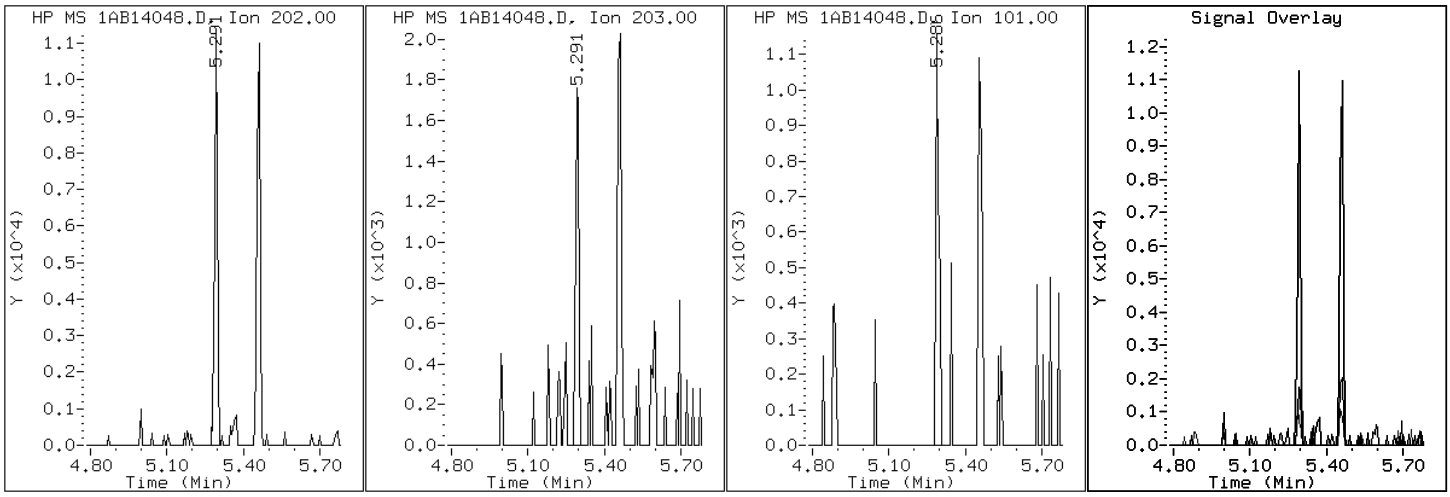
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

15 Fluoranthene



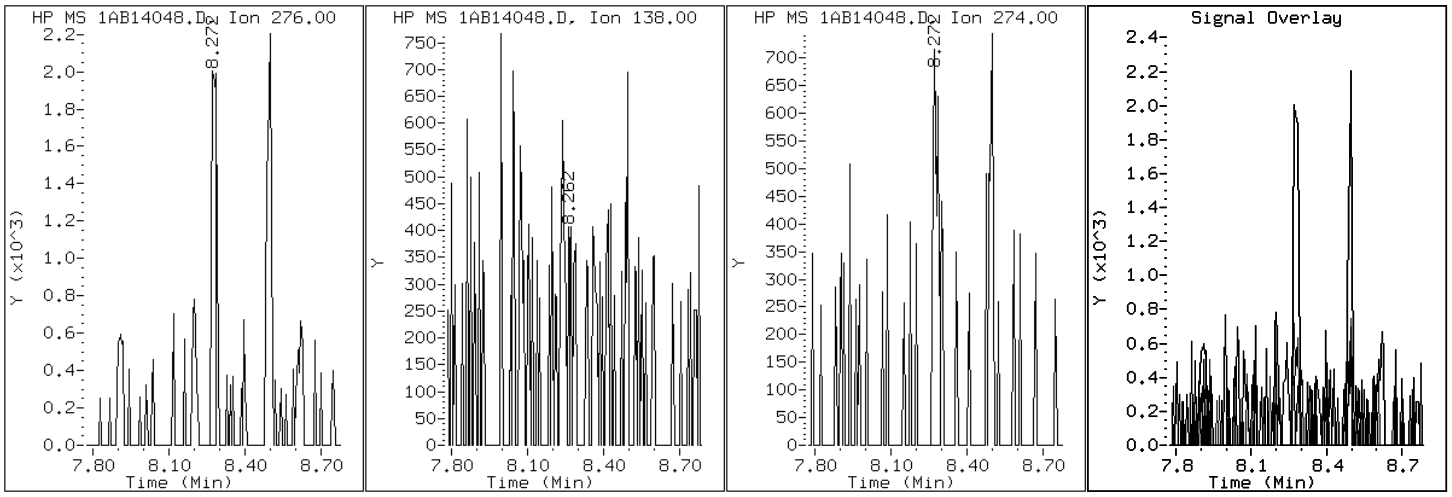
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

24 Indeno(1,2,3-cd)pyrene



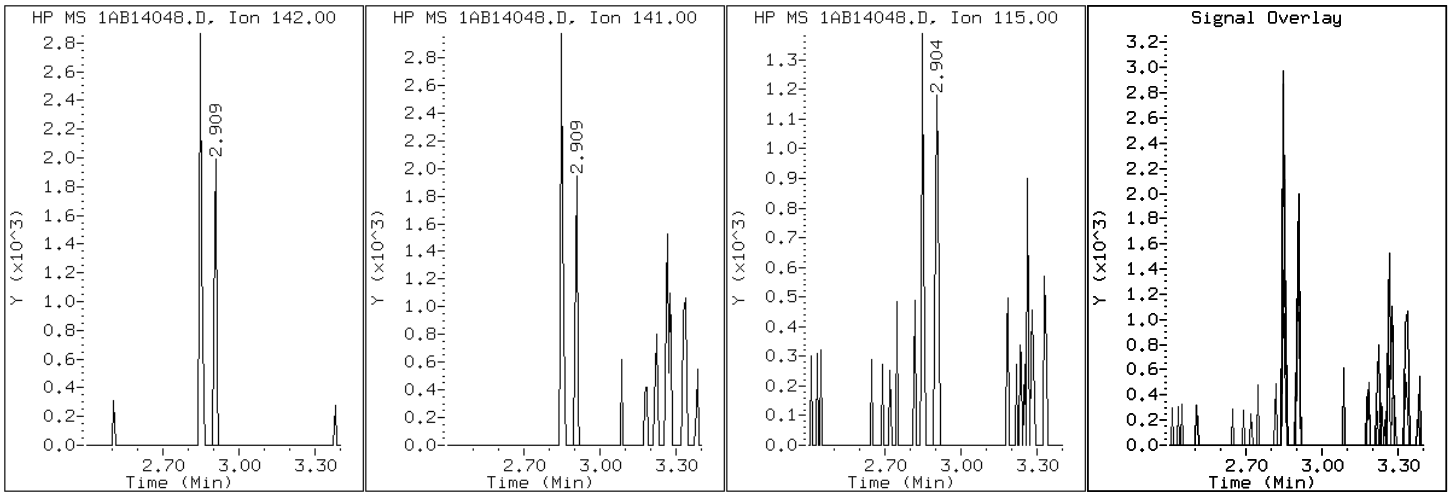
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

4 1-Methylnaphthalene



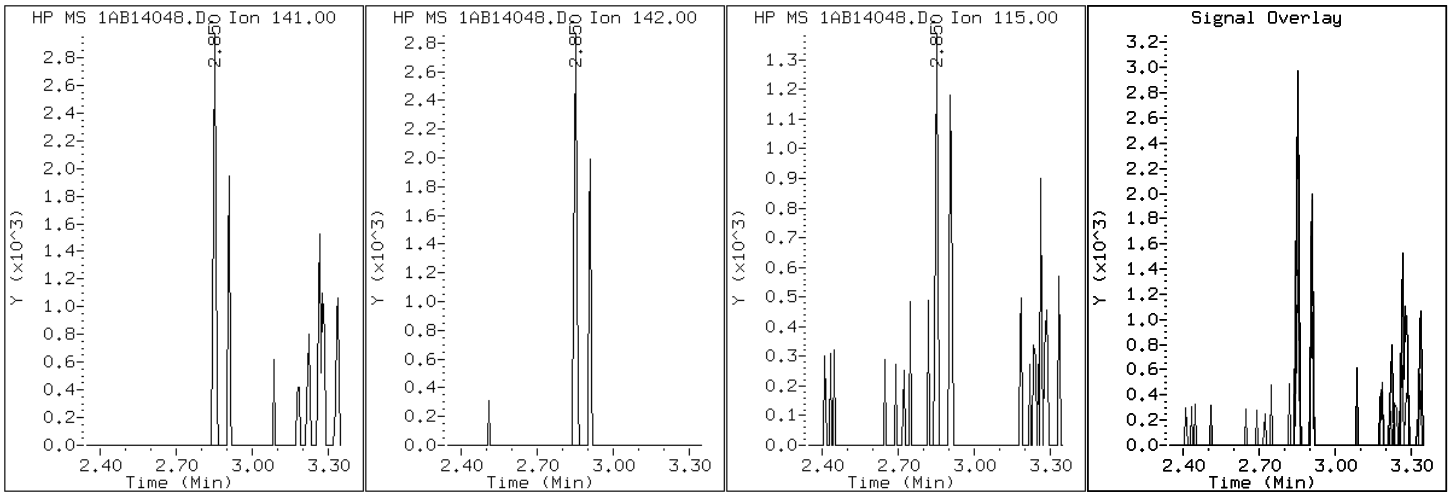
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

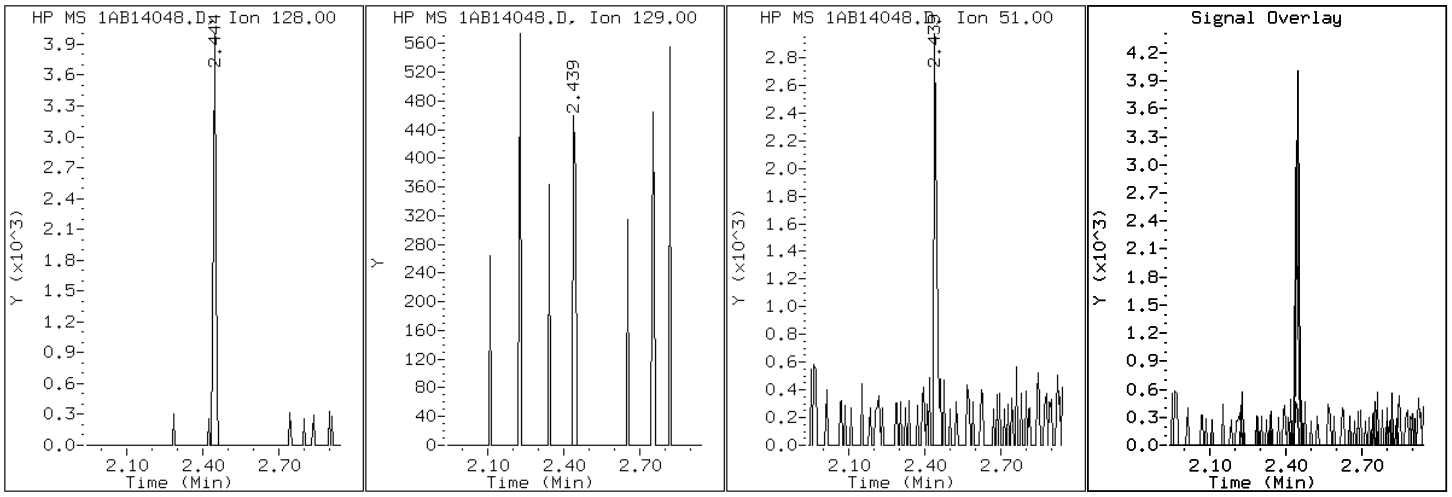
Client ID: CV0748Z-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a

Operator: SCC

2 Naphthalene



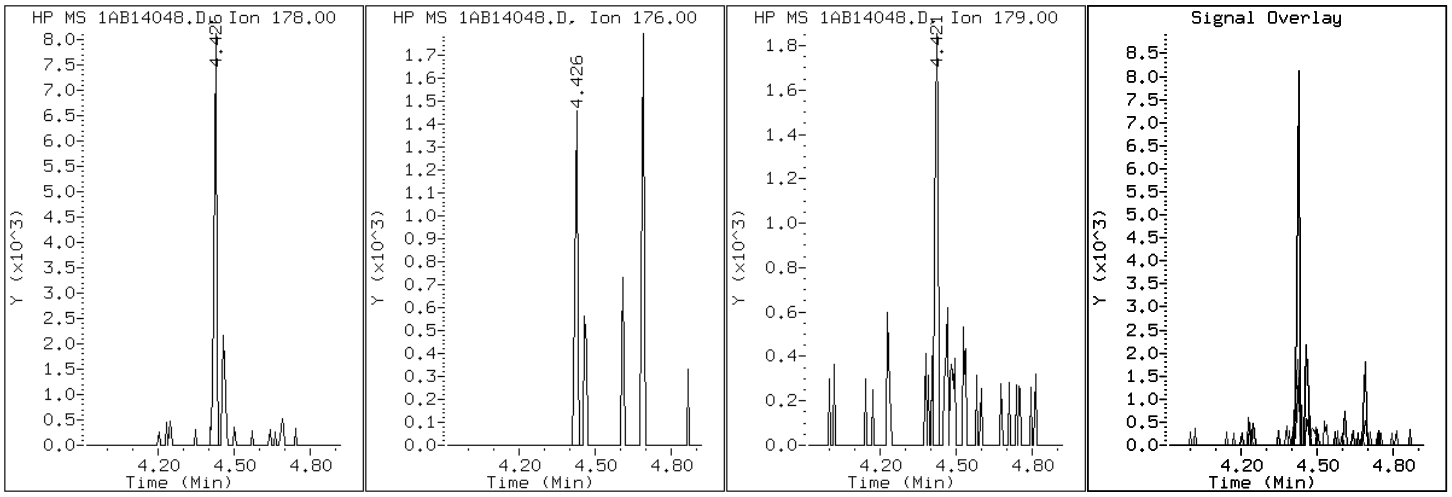
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

11 Phenanthrene



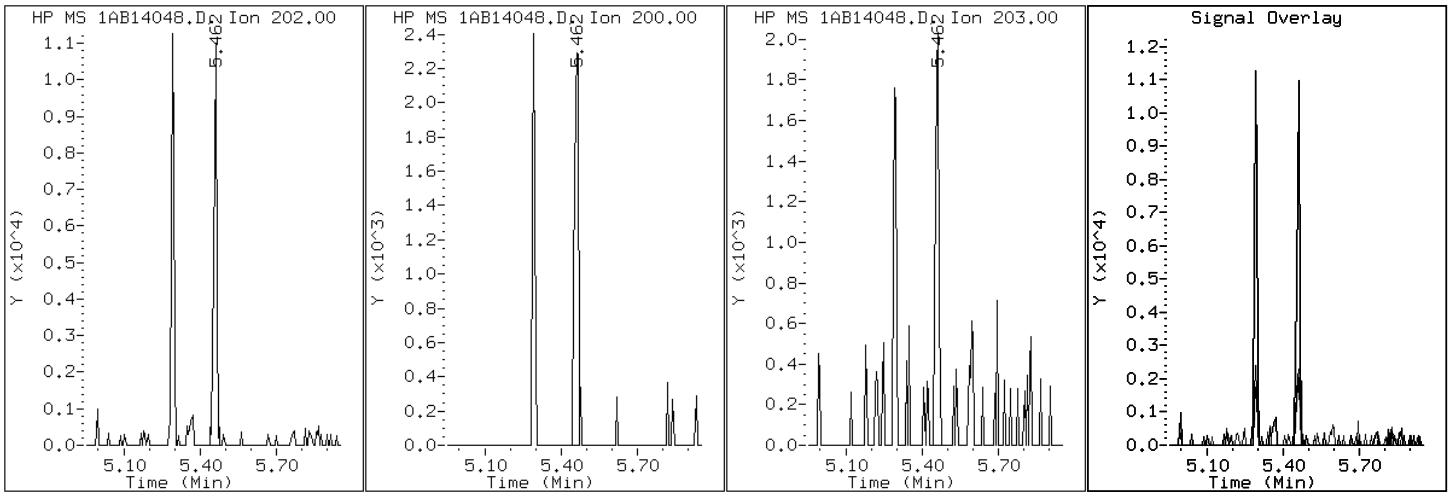
Data File: 1AB14048.D

Date: 14-FEB-2013 21:42

Client ID: CV0748Z-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14048.D
Inj. Date and Time: 14-FEB-2013 21:42
Instrument ID: BSMA5973.i
Client ID: CV0748Z-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

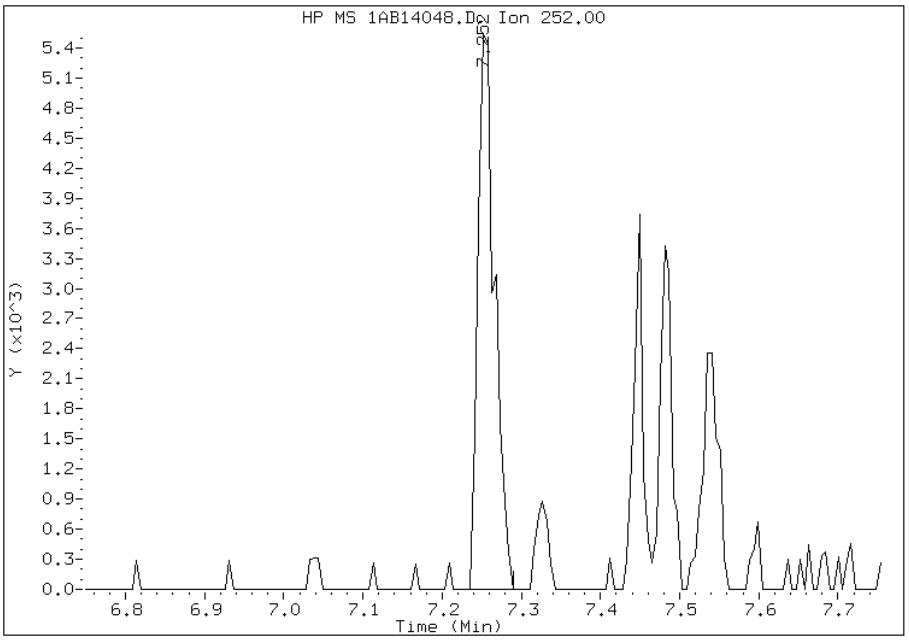
Processing Integration Results

RT: 7.25

Response: 8079

Amount: 0

Conc: 149



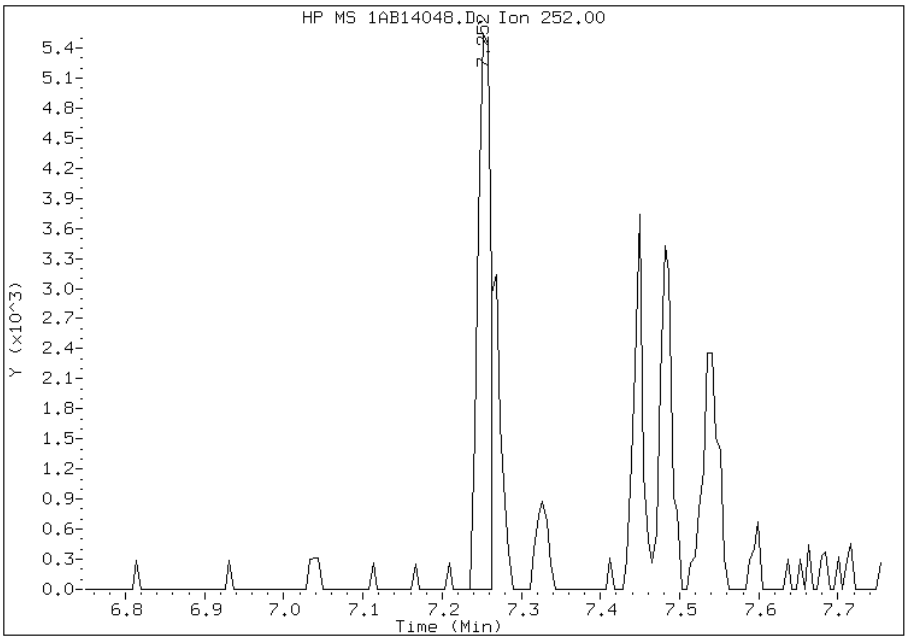
Manual Integration Results

RT: 7.25

Response: 6142

Amount: 0

Conc: 113



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:05
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14048.D
Inj. Date and Time: 14-FEB-2013 21:42
Instrument ID: BSMA5973.i
Client ID: CV0748Z-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

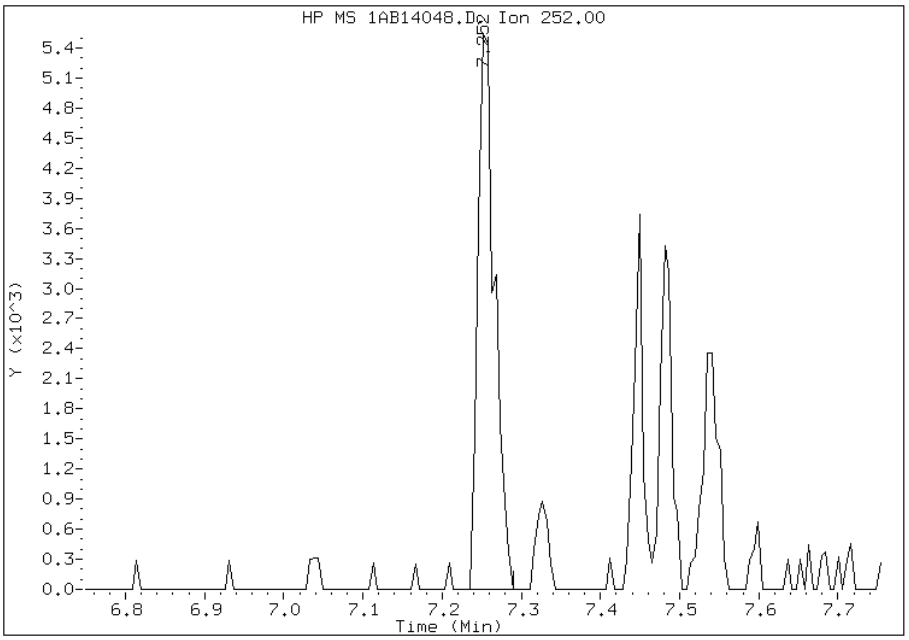
Processing Integration Results

RT: 7.25

Response: 8079

Amount: 0

Conc: 142



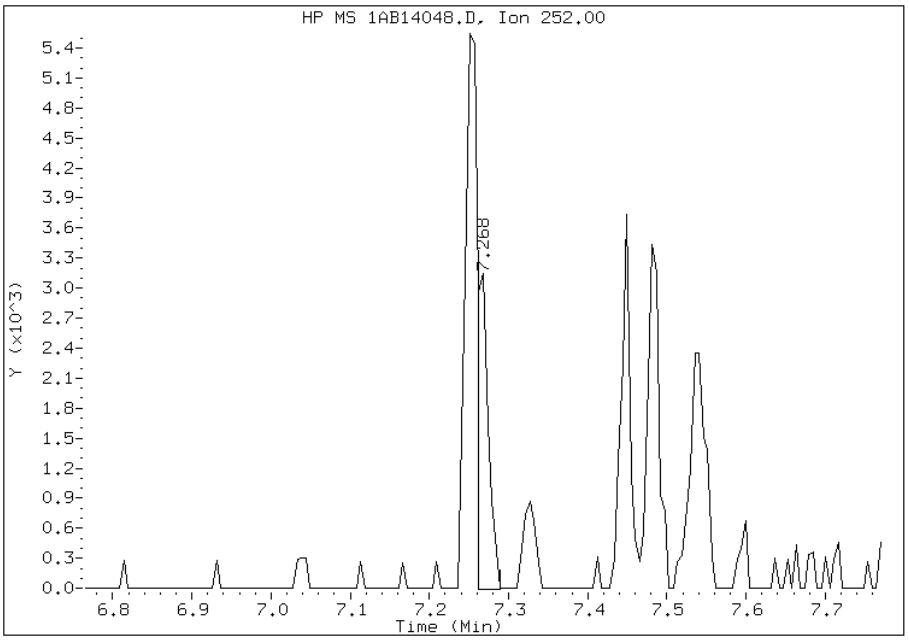
Manual Integration Results

RT: 7.27

Response: 2905

Amount: 0

Conc: 51



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14048.D
Inj. Date and Time: 14-FEB-2013 21:42
Instrument ID: BSMA5973.i
Client ID: CV0748Z-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

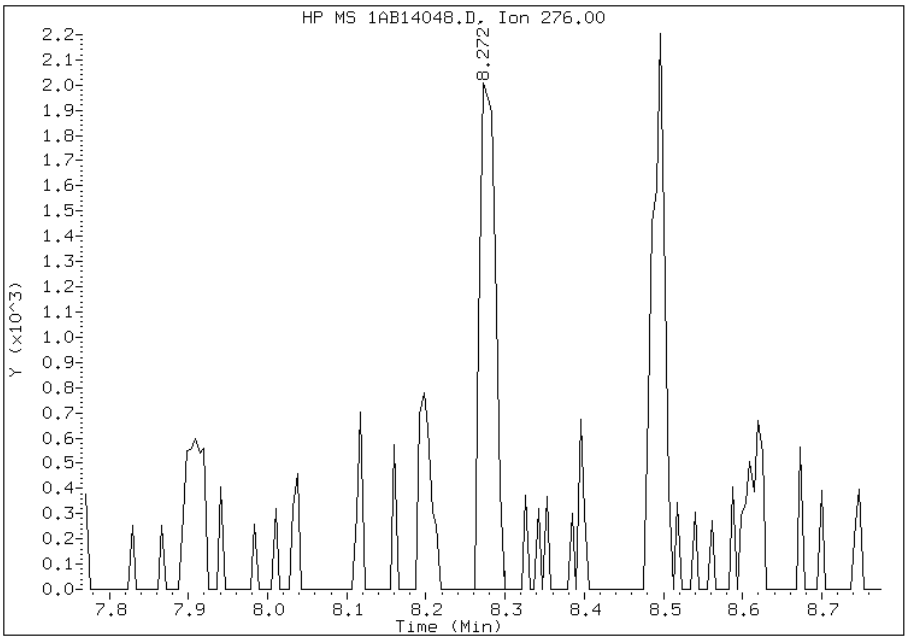
Processing Integration Results

RT: 8.27

Response: 2691

Amount: 0

Conc: 66



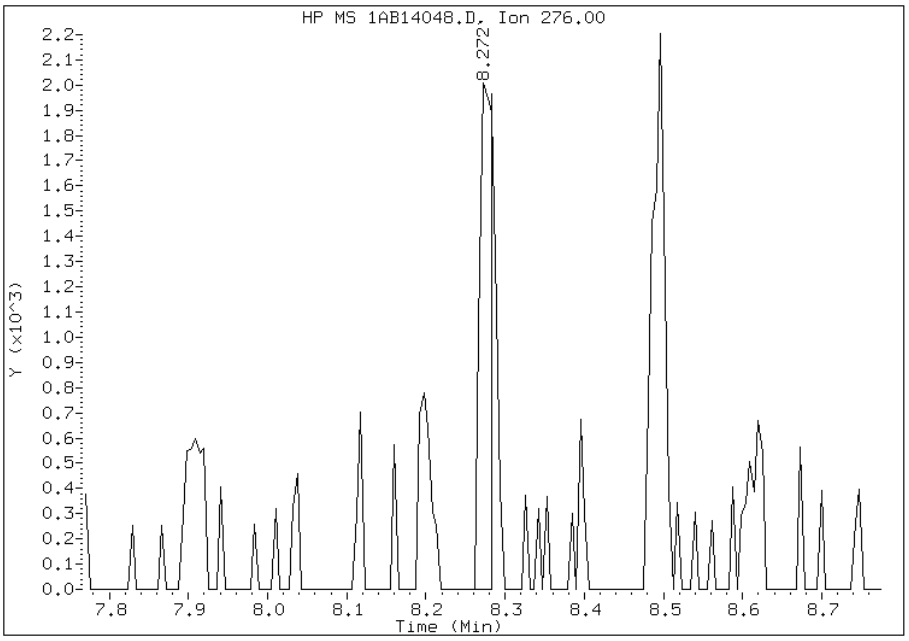
Manual Integration Results

RT: 8.27

Response: 2205

Amount: 0

Conc: 54



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: CV0748FF-CS | Lab Sample ID: 680-87279-14

Matrix: Solid | Lab File ID: 1AB14049.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:49

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.16(g) | Date Analyzed: 02/14/2013 21:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 4.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	7.8	J	41	5.2
120-12-7	Anthracene	14		8.7	4.3
56-55-3	Benzo[a]anthracene	40		8.3	4.0
50-32-8	Benzo[a]pyrene	34		11	5.4
205-99-2	Benzo[b]fluoranthene	54		13	6.3
191-24-2	Benzo[g,h,i]perylene	31		21	4.5
207-08-9	Benzo[k]fluoranthene	17		8.3	3.7
218-01-9	Chrysene	47		9.3	4.6
53-70-3	Dibenz(a,h)anthracene	12	J	21	4.2
206-44-0	Fluoranthene	66		21	4.1
86-73-7	Fluorene	21	U	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	32		21	7.3
90-12-0	1-Methylnaphthalene	20	J	41	4.5
91-57-6	2-Methylnaphthalene	27	J	41	7.3
91-20-3	Naphthalene	25	J	41	4.5
85-01-8	Phenanthrene	47		8.3	4.0
129-00-0	Pyrene	49		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14049.D
Lab Smp Id: 680-87279-A-14-A Client Smp ID: CV0748FF-CS
Inj Date : 14-FEB-2013 21:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-14-a
Misc Info : 680-87279-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 49
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	Weight Extracted
M	4.158	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.434	2.430	(1.000)	772884	40.0000	
* 6 Acenaphthene-d10	164	3.465	3.461	(1.000)	495498	40.0000	
* 10 Phenanthrene-d10	188	4.410	4.402	(1.000)	692045	40.0000	
$ 14 o-Terphenyl	230	4.688	4.685	(1.063)	64142	6.37862	439.0050
* 18 Chrysene-d12	240	6.440	6.426	(1.000)	588044	40.0000	
* 23 Perylene-d12	264	7.541	7.527	(1.000)	599600	40.0000	
2 Naphthalene	128	2.444	2.441	(1.004)	6680	0.35608	24.5071(Q)
3 2-Methylnaphthalene	141	2.850	2.847	(1.171)	3928	0.39085	26.8998
4 1-Methylnaphthalene	142	2.904	2.900	(1.193)	3358	0.29517	20.3149
5 Acenaphthylene	152	3.379	3.371	(0.975)	2490	0.11381	7.8328
11 Phenanthrene	178	4.426	4.418	(1.004)	12882	0.68174	46.9203(M)
12 Anthracene	178	4.458	4.455	(1.011)	3790	0.19673	13.5395
13 Carbazole	167	4.613	4.610	(1.046)	1952	0.11820	8.1352
15 Fluoranthene	202	5.292	5.283	(1.200)	18086	0.96541	66.4438

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.457	5.454	(0.847)	15116	0.71177	48.9872
17 Benzo(a)anthracene	228	6.435	6.416	(0.999)	10132	0.57705	39.7153
19 Chrysene	228	6.451	6.448	(1.002)	11598	0.67768	46.6407
20 Benzo(b)fluoranthene	252	7.252	7.244	(0.962)	13069	0.78094	53.7477(M)
21 Benzo(k)fluoranthene	252	7.268	7.265	(0.964)	4443	0.25393	17.4765(QMH)
22 Benzo(a)pyrene	252	7.487	7.479	(0.993)	7901	0.49718	34.2178
24 Indeno(1,2,3-cd)pyrene	276	8.283	8.275	(1.098)	5770	0.45981	31.6463(M)
25 Dibenzo(a,h)anthracene	278	8.294	8.291	(1.100)	2207	0.17593	12.1080(MH)
26 Benzo(g,h,i)perylene	276	8.497	8.494	(1.127)	5770	0.44384	30.5467

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14049.D

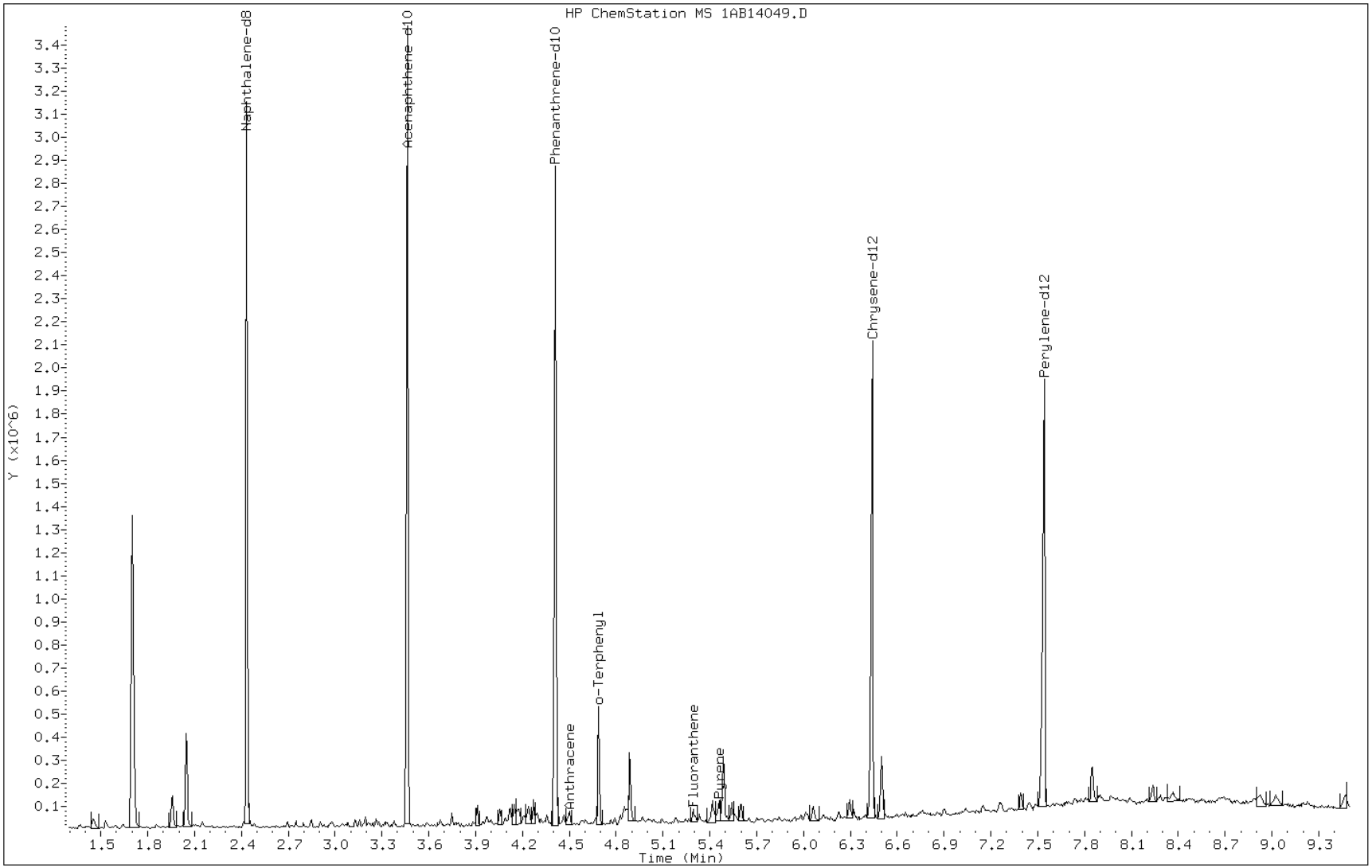
Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a

Operator: SCC



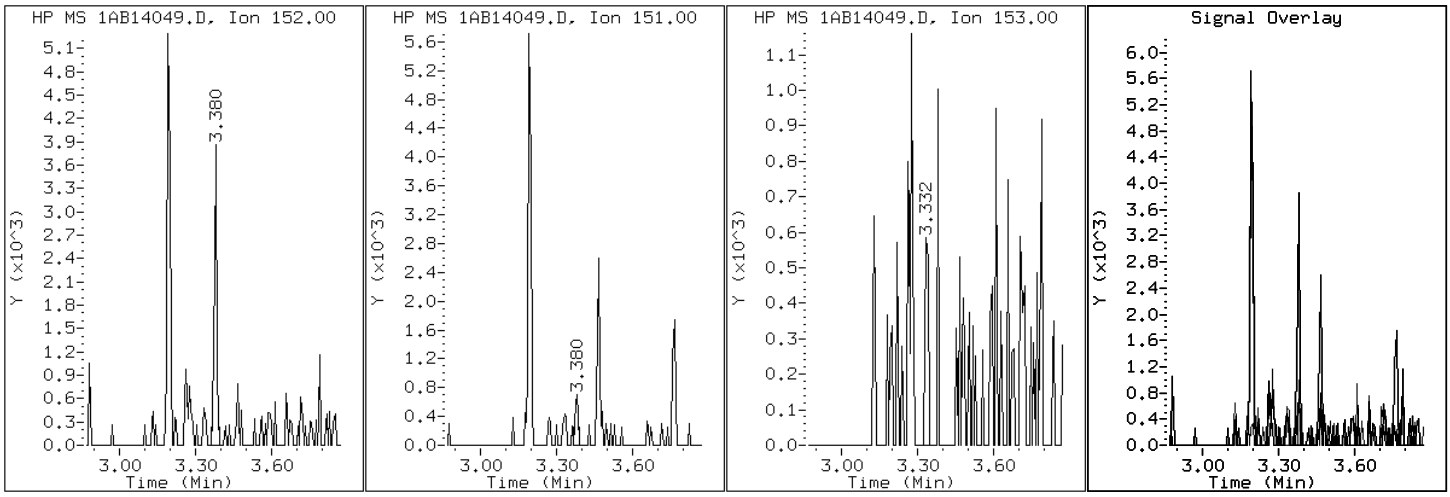
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

5 Acenaphthylene



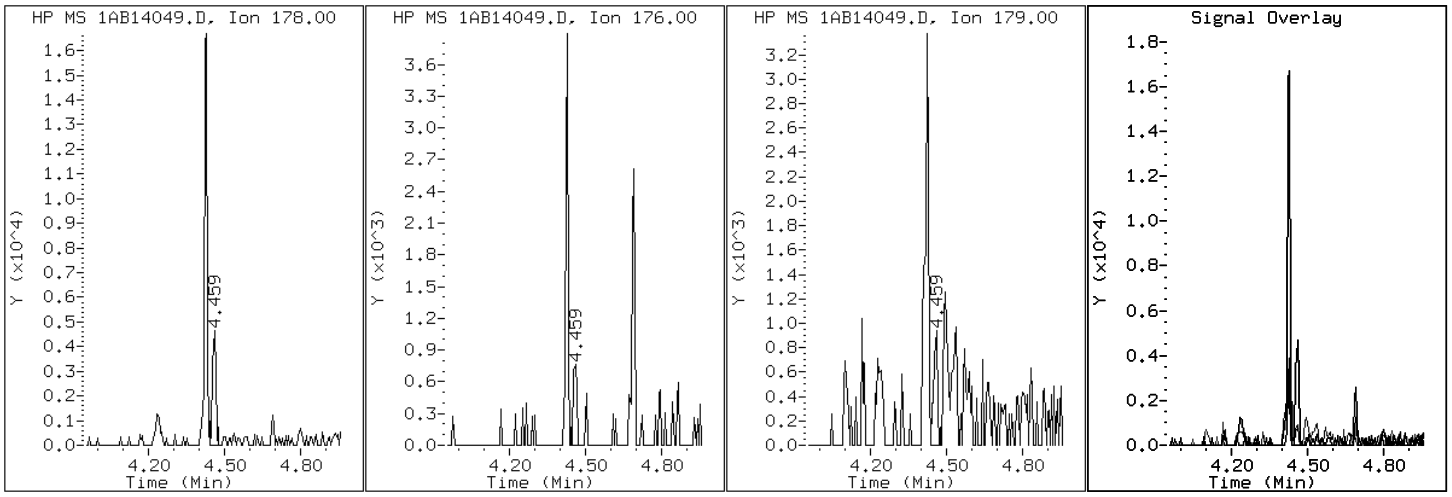
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

12 Anthracene



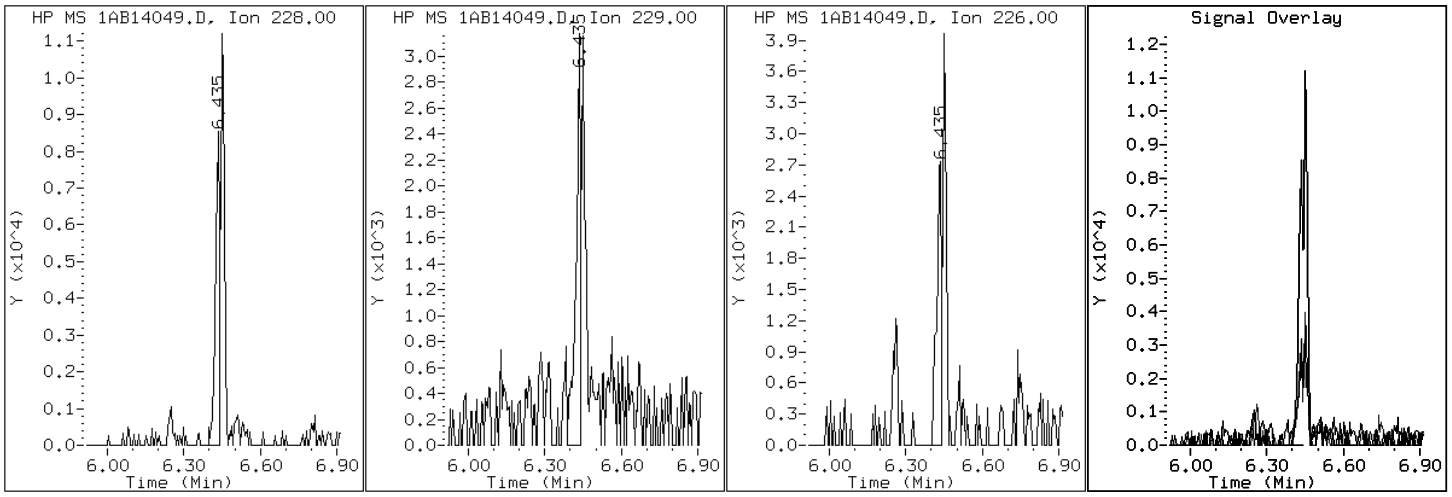
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

17 Benzo(a)anthracene



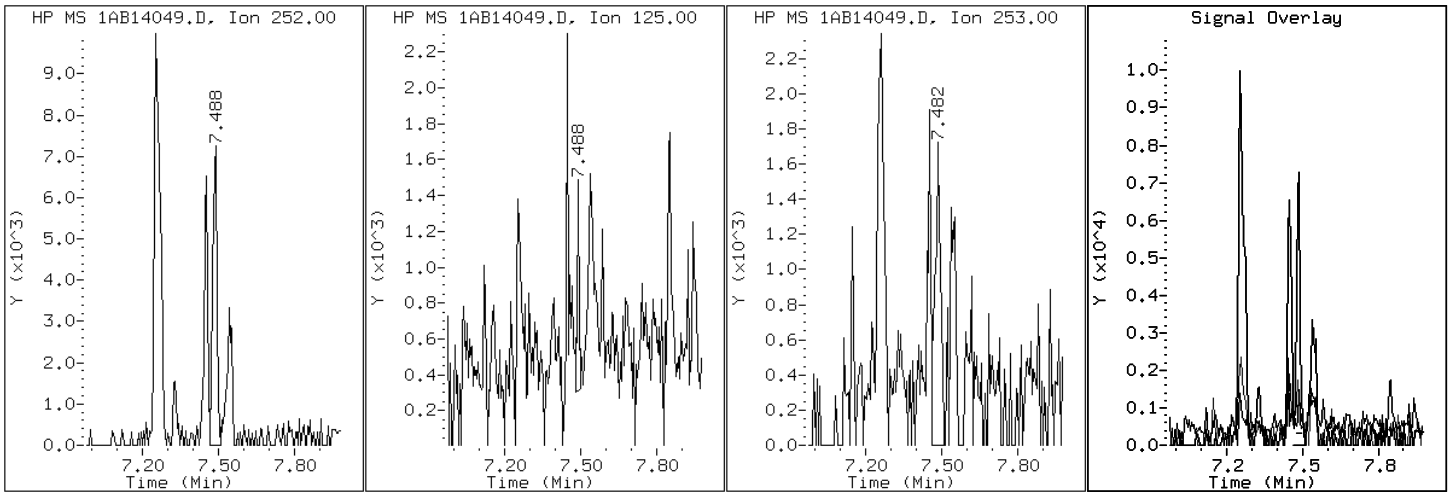
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

22 Benzo(a)pyrene



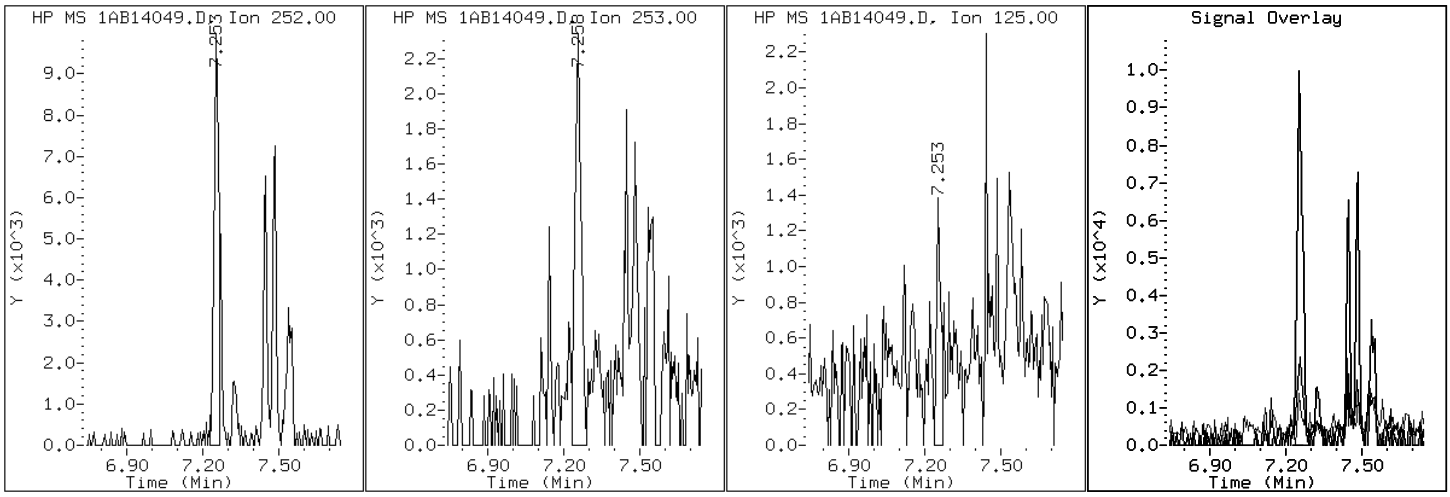
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

20 Benzo(b)fluoranthene



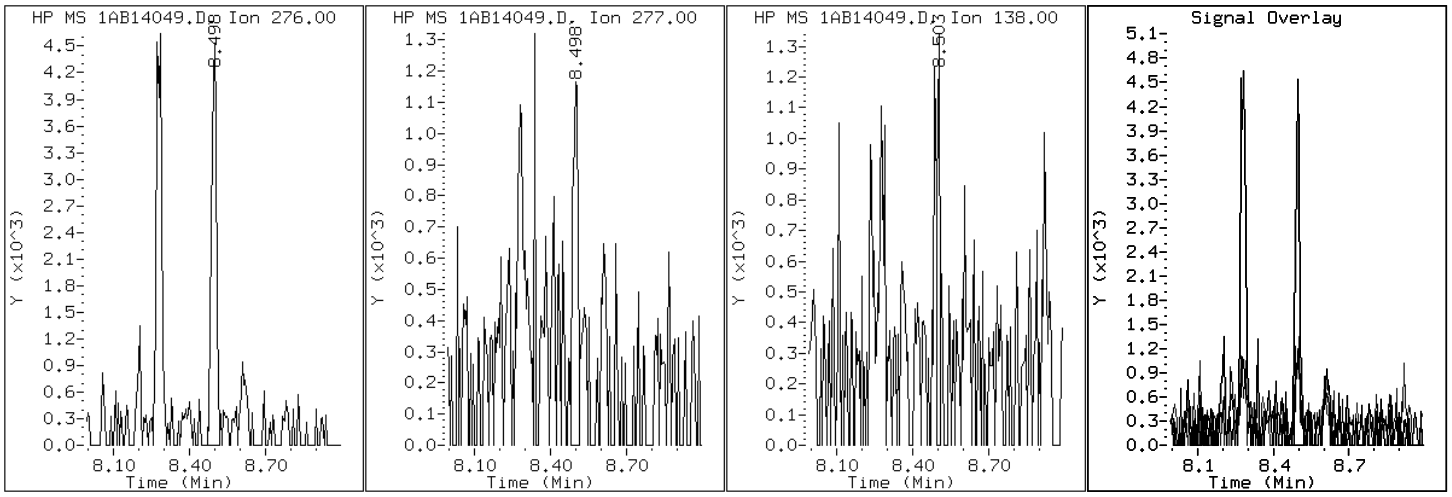
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

26 Benzo(g,h,i)perylene



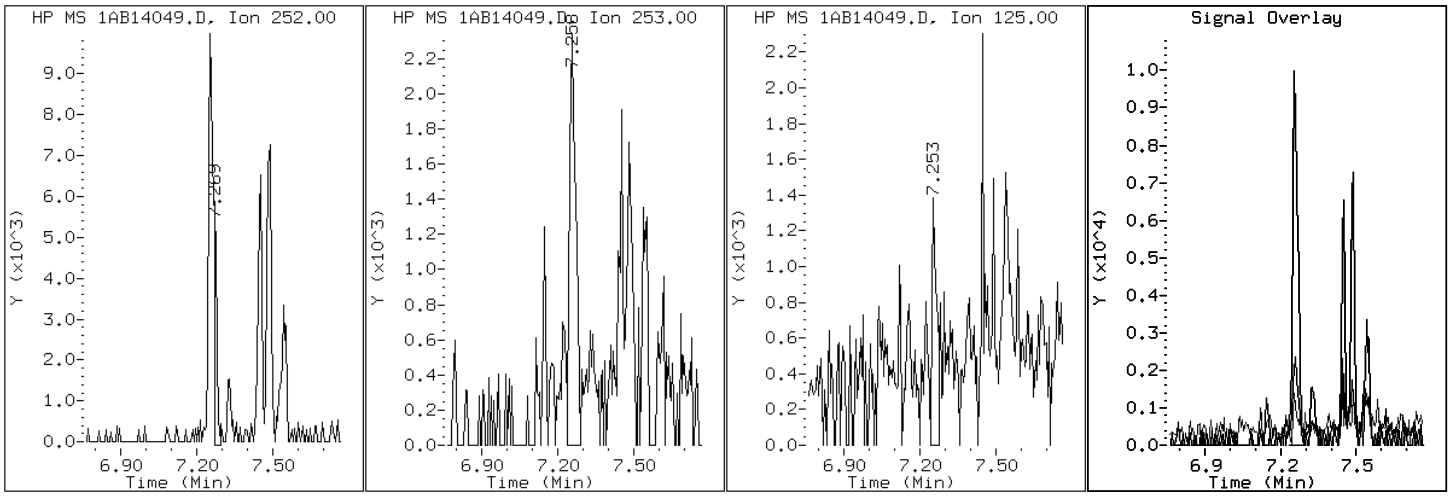
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

21 Benzo(k)fluoranthene



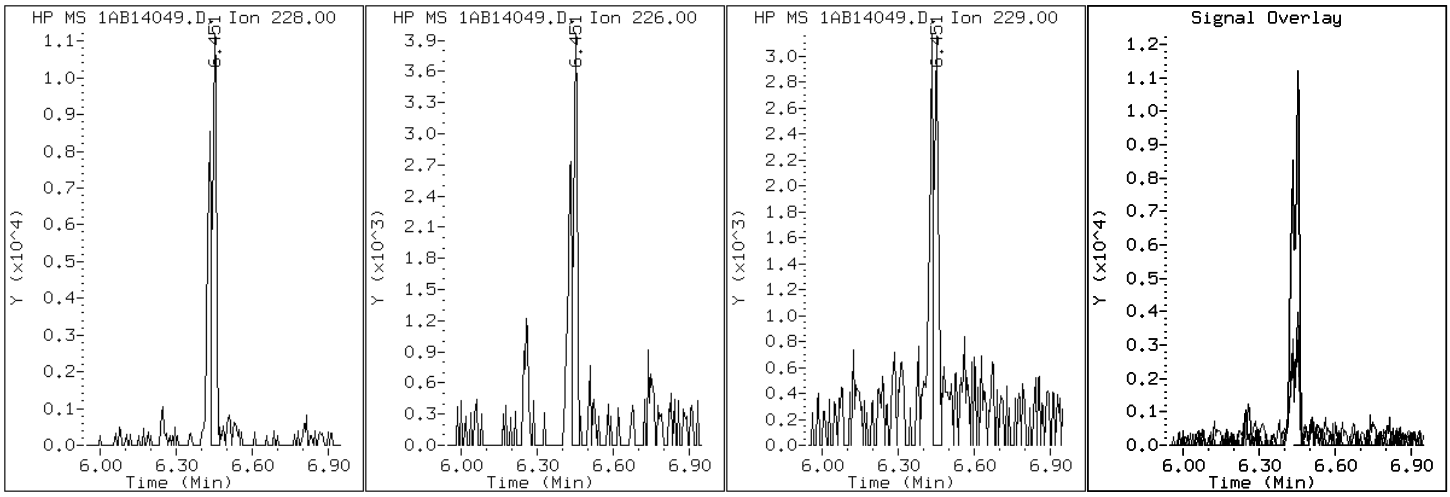
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

19 Chrysene



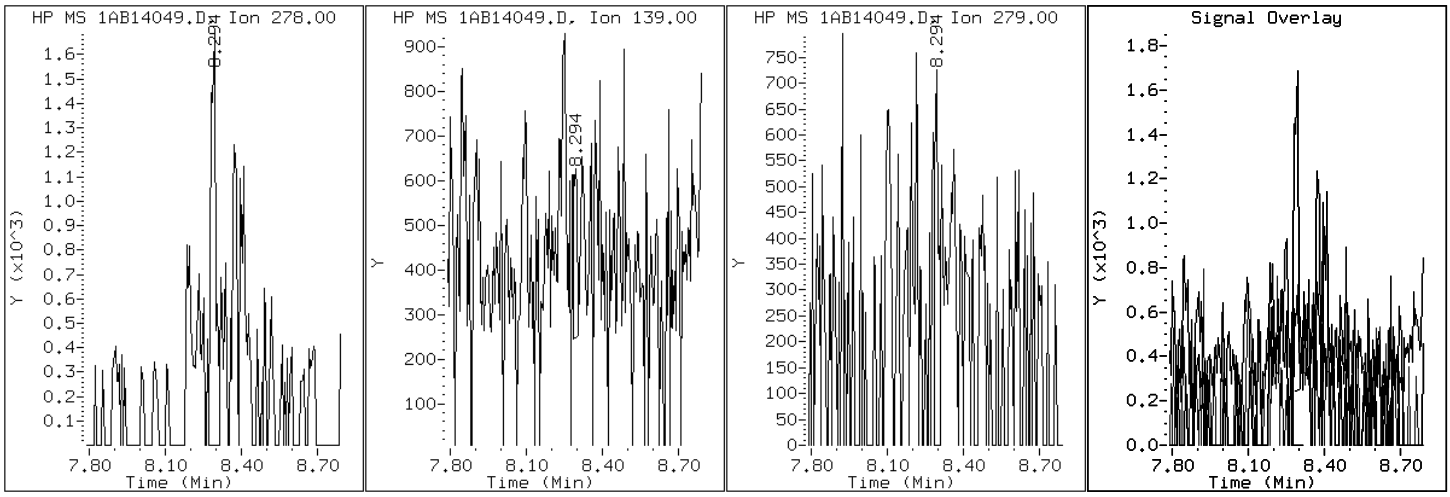
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

25 Dibenzo(a,h)anthracene



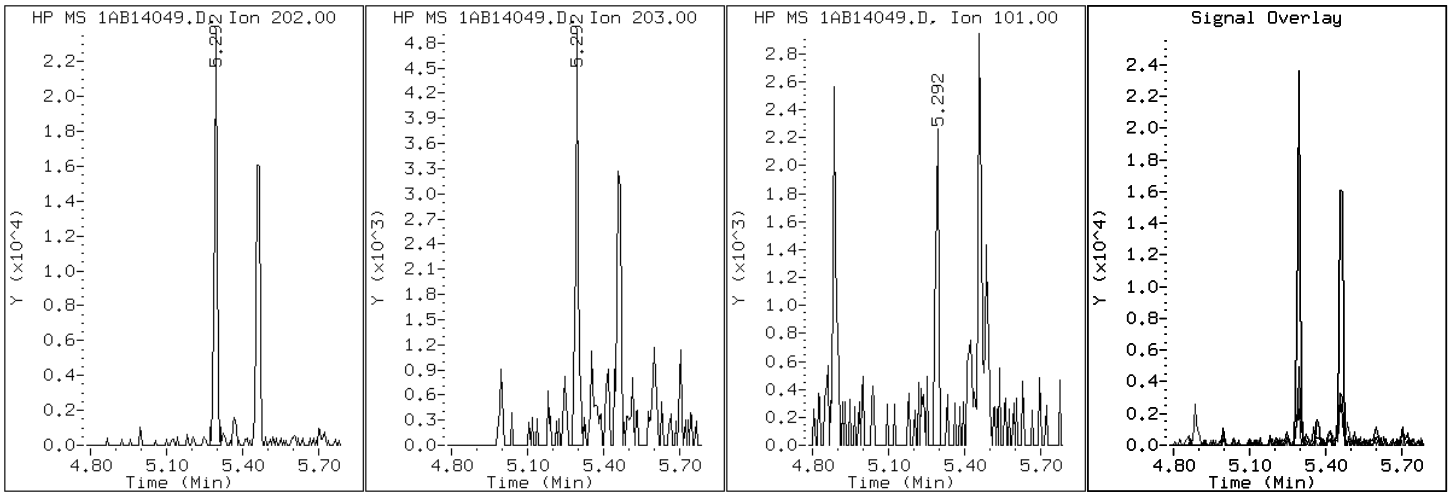
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

15 Fluoranthene



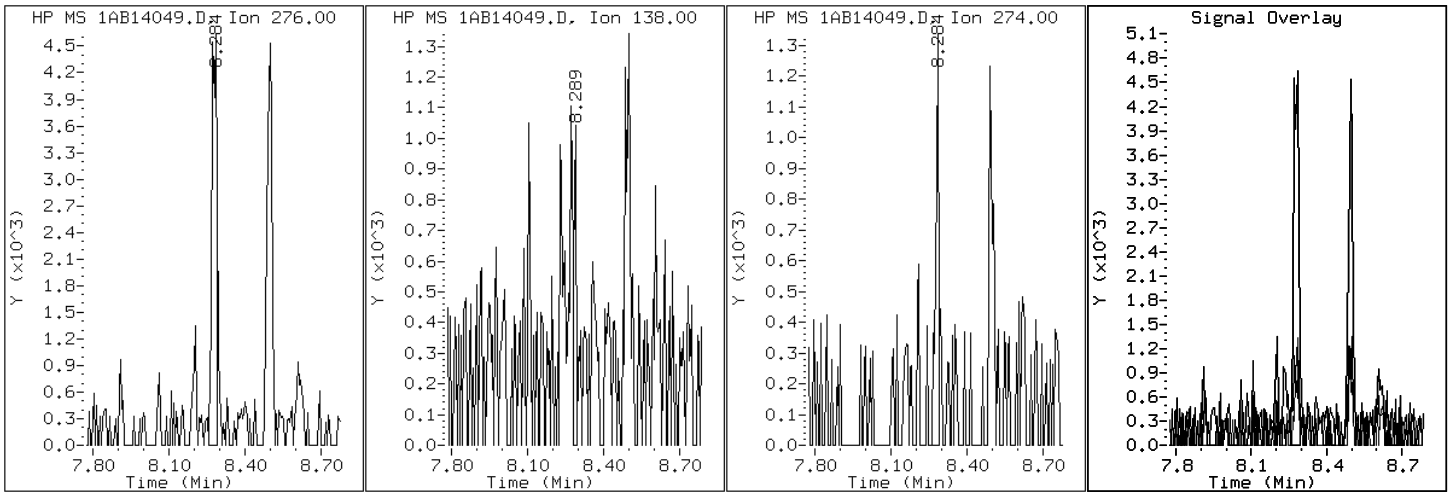
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

24 Indeno(1,2,3-cd)pyrene



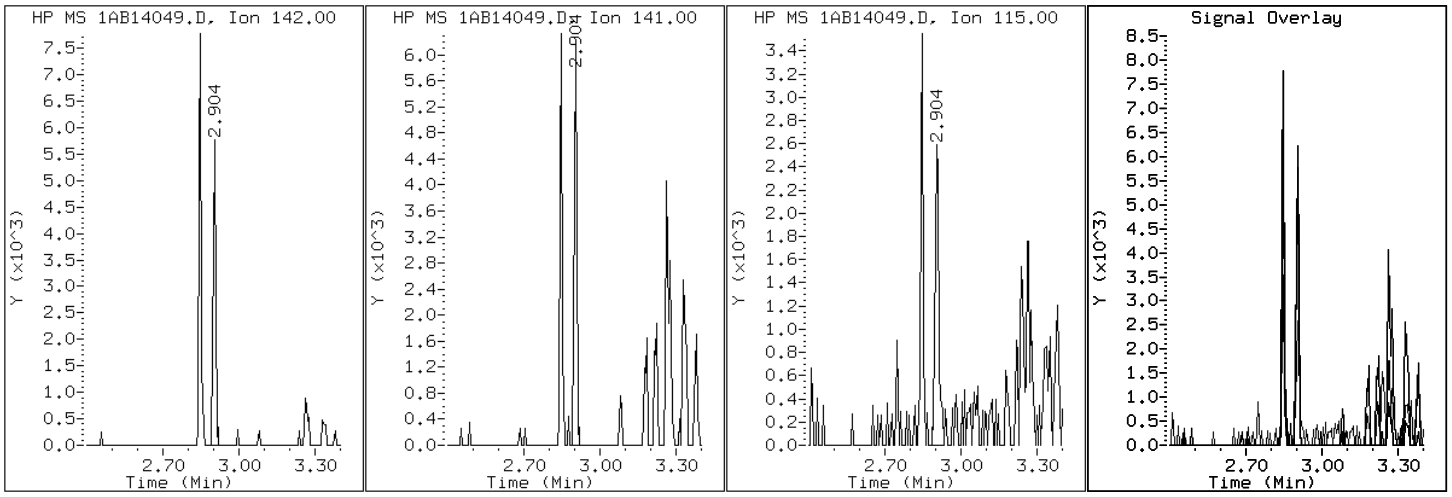
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

4 1-Methylnaphthalene



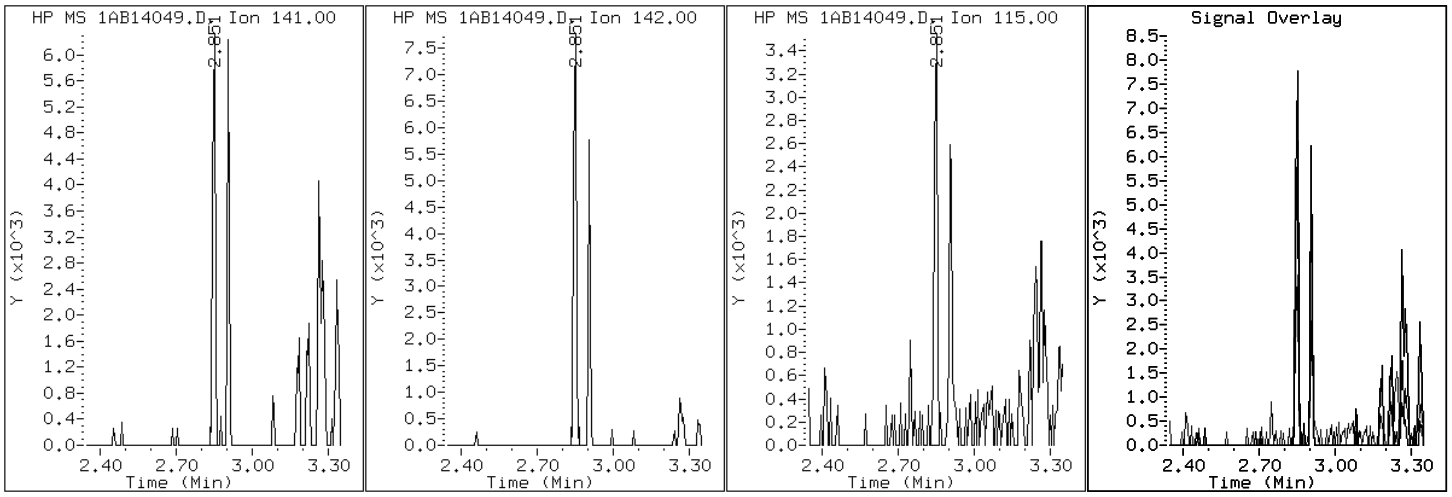
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

3 2-Methylnaphthalene



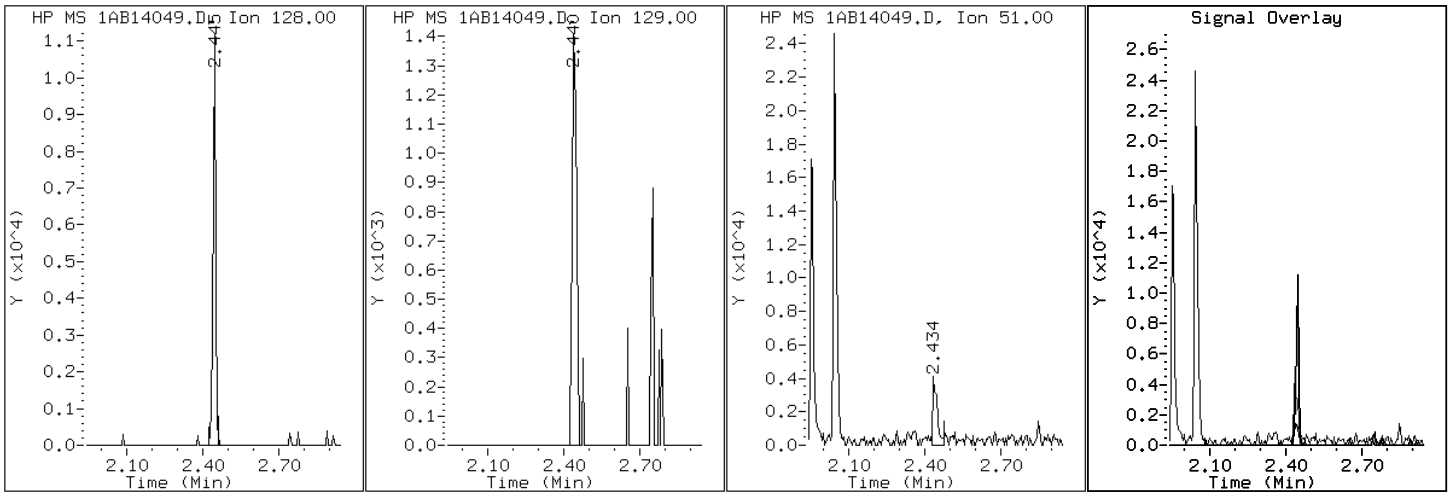
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

2 Naphthalene



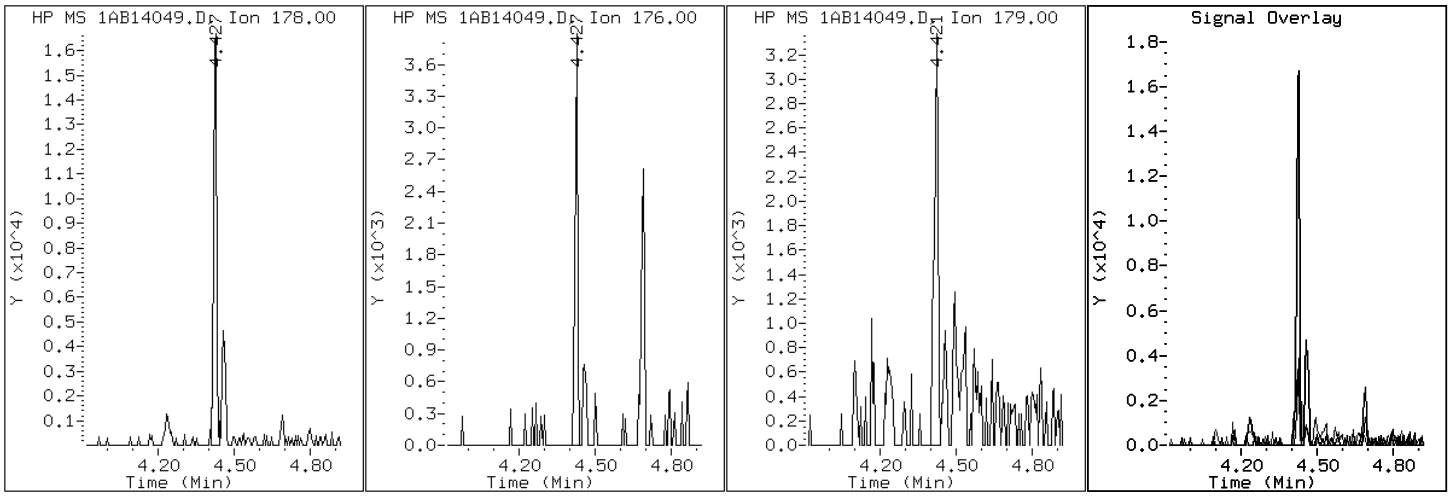
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

11 Phenanthrene



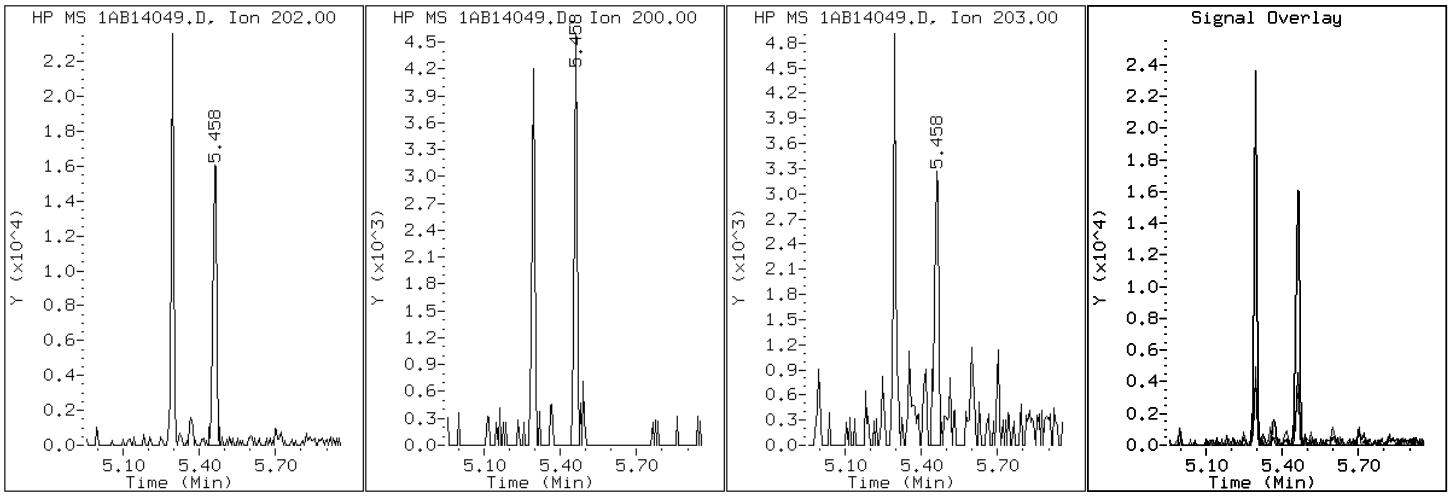
Data File: 1AB14049.D

Date: 14-FEB-2013 21:57

Client ID: CV0748FF-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-14-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14049.D
Inj. Date and Time: 14-FEB-2013 21:57
Instrument ID: BSMA5973.i
Client ID: CV0748FF-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

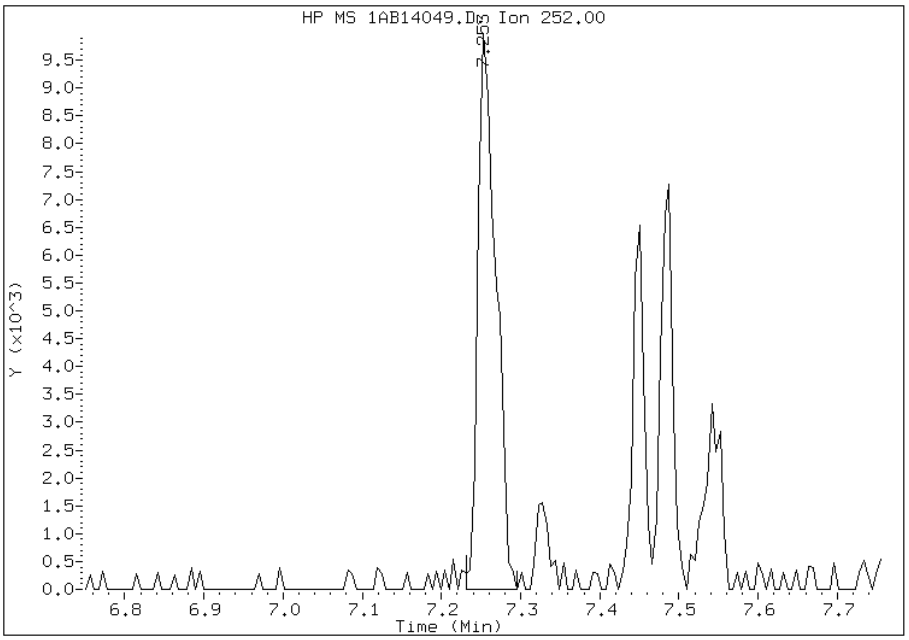
Processing Integration Results

RT: 7.25

Response: 15598

Amount: 1

Conc: 64



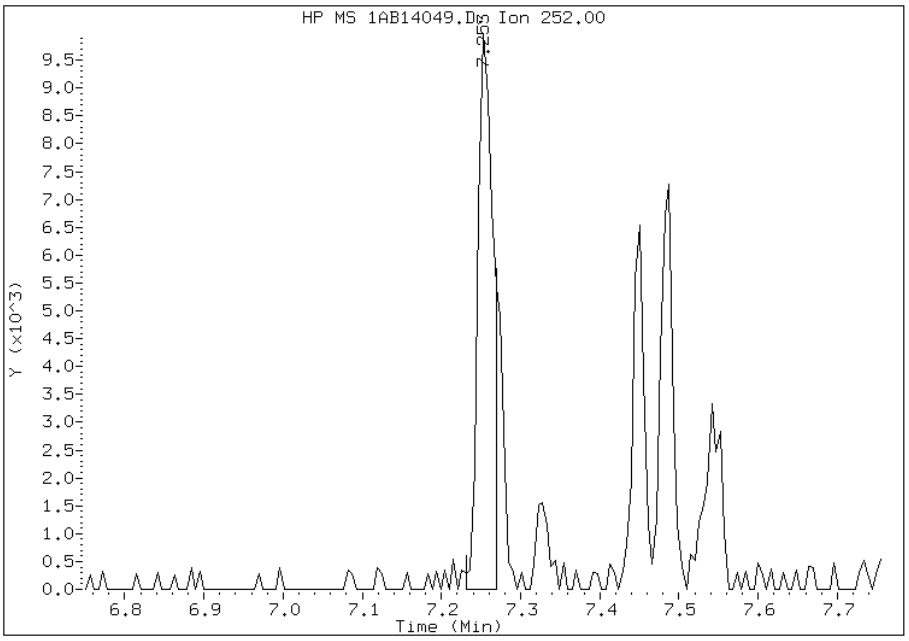
Manual Integration Results

RT: 7.25

Response: 13069

Amount: 1

Conc: 54



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14049.D
Inj. Date and Time: 14-FEB-2013 21:57
Instrument ID: BSMA5973.i
Client ID: CV0748FF-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

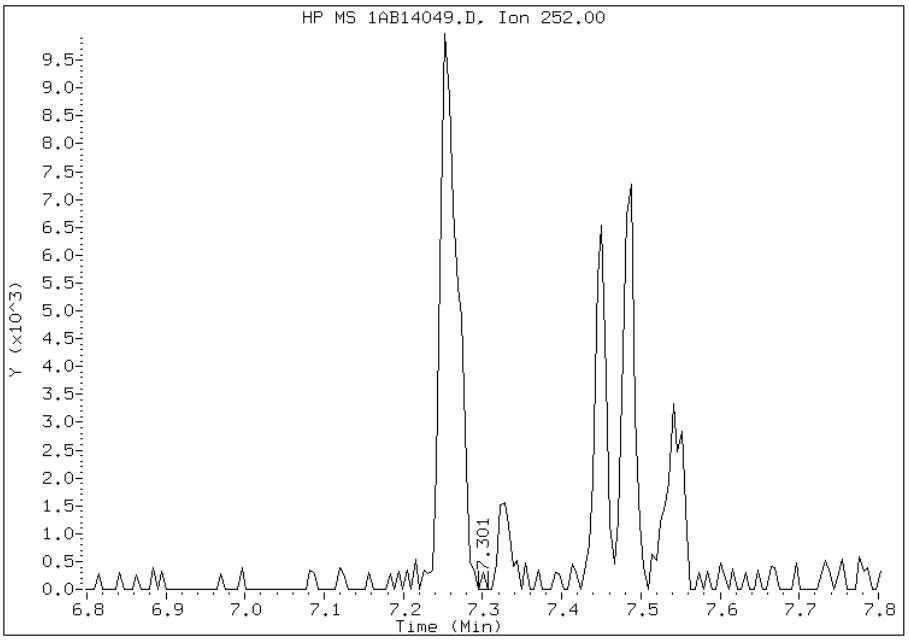
Processing Integration Results

RT: 7.30

Response: 97

Amount: 0

Conc: 0



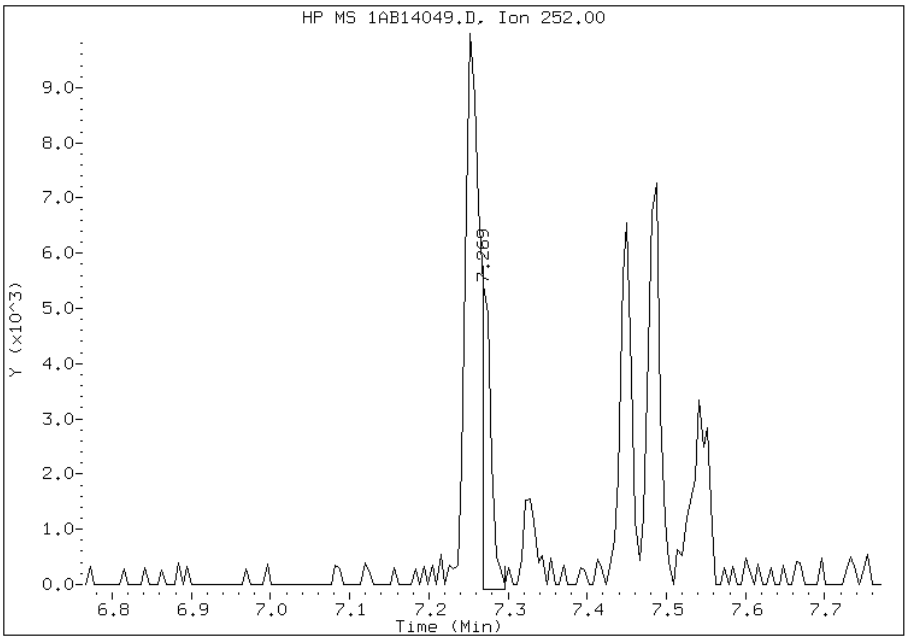
Manual Integration Results

RT: 7.27

Response: 4443

Amount: 0

Conc: 17



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14049.D
Inj. Date and Time: 14-FEB-2013 21:57
Instrument ID: BSMA5973.i
Client ID: CV0748FF-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/15/2013

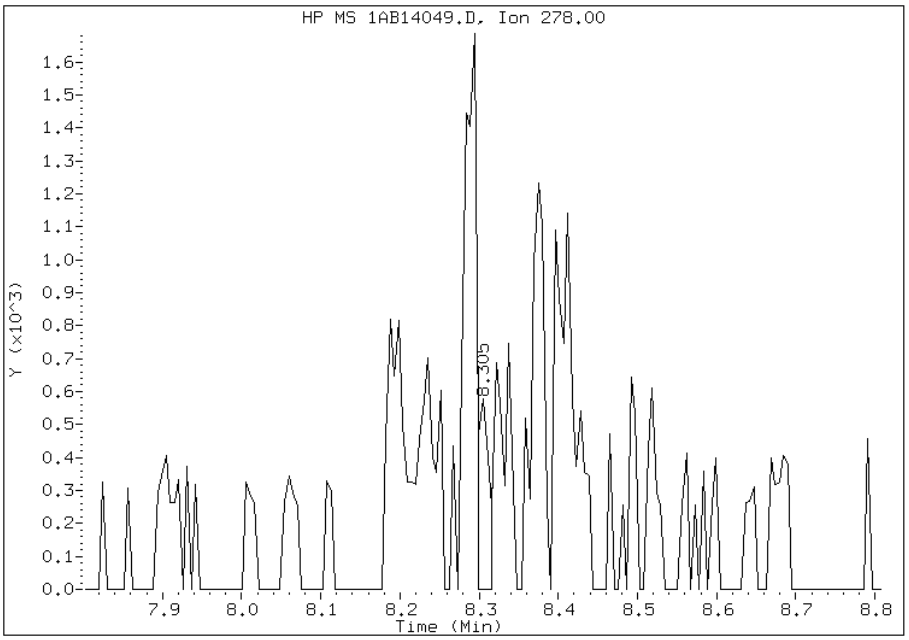
Processing Integration Results

RT: 8.31

Response: 543

Amount: 0

Conc: 3



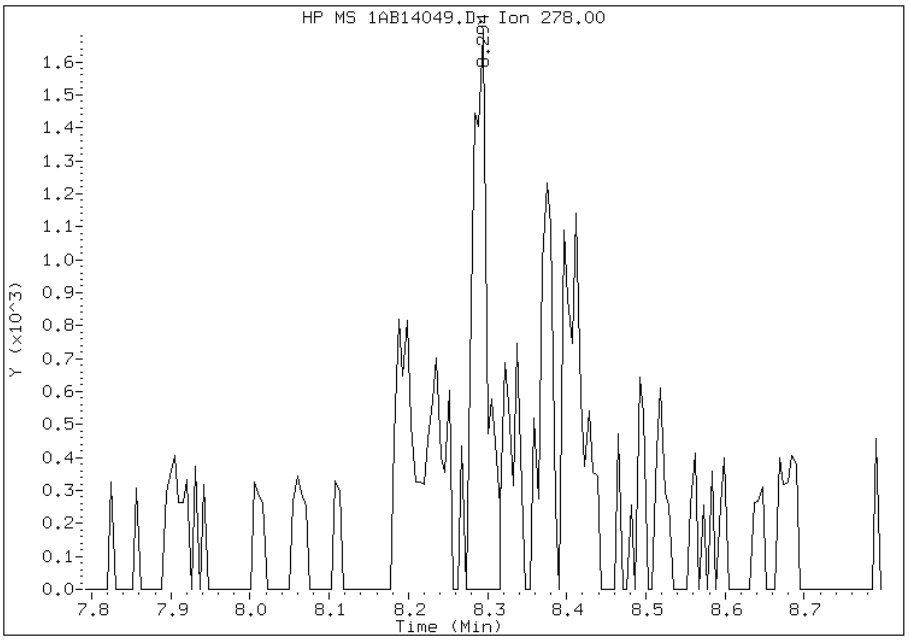
Manual Integration Results

RT: 8.29

Response: 2207

Amount: 0

Conc: 12



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14049.D
Inj. Date and Time: 14-FEB-2013 21:57
Instrument ID: BSMA5973.i
Client ID: CV0748FF-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

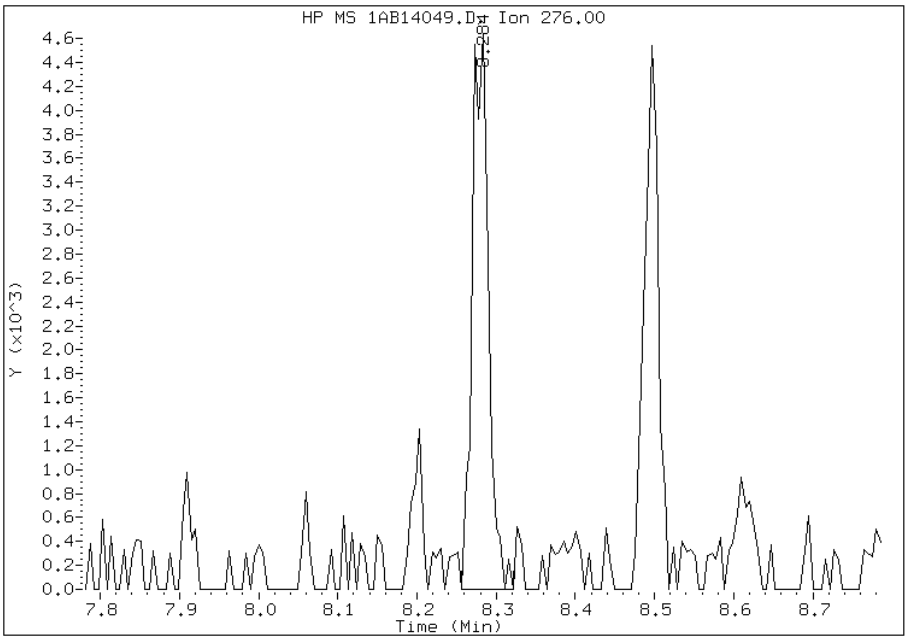
Processing Integration Results

RT: 8.28

Response: 6528

Amount: 1

Conc: 36



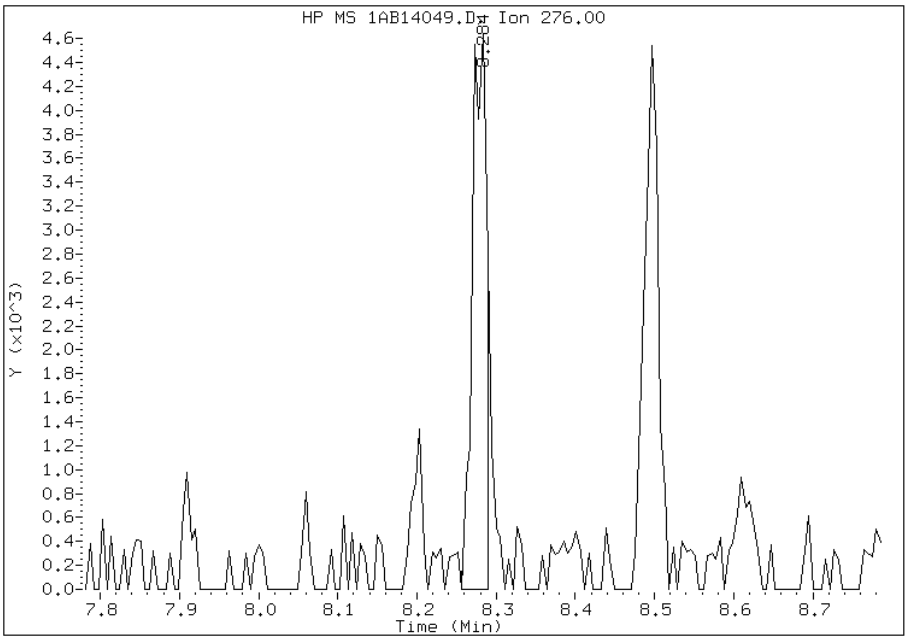
Manual Integration Results

RT: 8.28

Response: 5770

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14049.D
Inj. Date and Time: 14-FEB-2013 21:57
Instrument ID: BSMA5973.i
Client ID: CV0748FF-CS
Compound: 11 Phenanthrene
CAS #: 85-01-8
Report Date: 02/15/2013

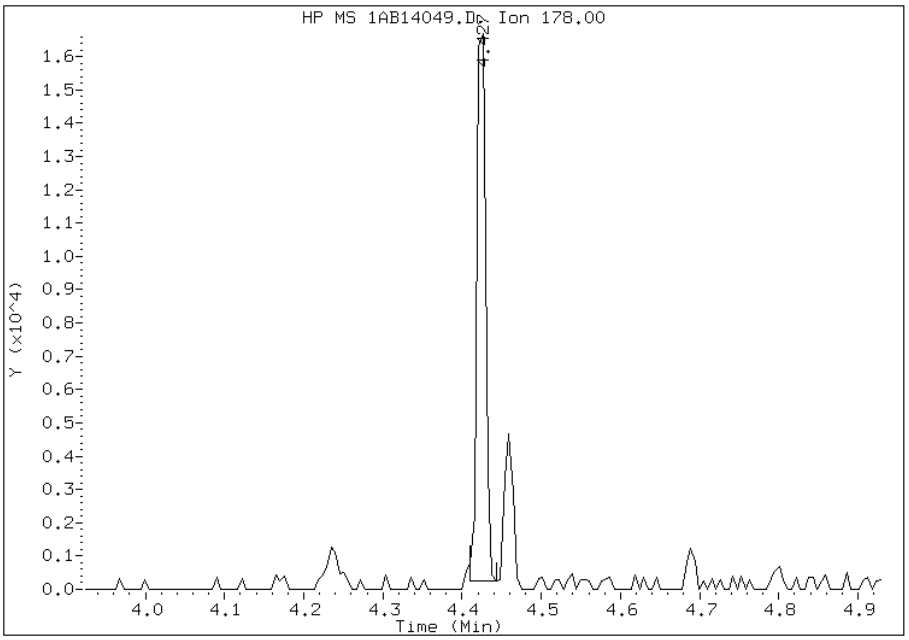
Processing Integration Results

RT: 4.43

Response: 12305

Amount: 1

Conc: 45



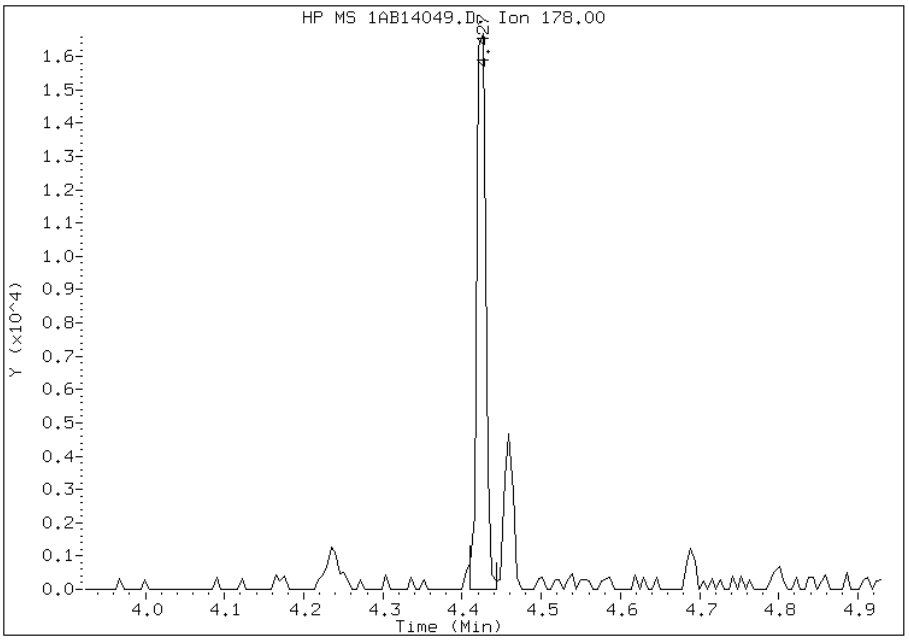
Manual Integration Results

RT: 4.43

Response: 12882

Amount: 1

Conc: 47



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:06
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: CV0748GG-CS | Lab Sample ID: 680-87279-15

Matrix: Solid | Lab File ID: 1CB14015.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:52

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.17(g) | Date Analyzed: 02/14/2013 18:39

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 0.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134493 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	400	U	400	80
208-96-8	Acenaphthylene	160	U	160	20
120-12-7	Anthracene	33	U	33	17
56-55-3	Benzo[a]anthracene	120		32	16
50-32-8	Benzo[a]pyrene	82		41	21
205-99-2	Benzo[b]fluoranthene	140		49	24
191-24-2	Benzo[g,h,i]perylene	79	J	80	18
207-08-9	Benzo[k]fluoranthene	50		32	14
218-01-9	Chrysene	95		36	18
53-70-3	Dibenz(a,h)anthracene	19	J	80	16
206-44-0	Fluoranthene	170		80	16
86-73-7	Fluorene	80	U	80	16
193-39-5	Indeno[1,2,3-cd]pyrene	63	J	80	28
90-12-0	1-Methylnaphthalene	35	J	160	18
91-57-6	2-Methylnaphthalene	37	J	160	28
91-20-3	Naphthalene	37	J	160	18
85-01-8	Phenanthrene	89		32	16
129-00-0	Pyrene	150		80	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14015.D
Lab Smp Id: 680-87279-A-15-A Client Smp ID: CV0748GG-CS
Inj Date : 14-FEB-2013 18:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87279-A-15-A
Misc Info : 680-87279-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 15
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	0.67265	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.822	3.821	(1.000)	2185282	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.909	(1.000)	1723970	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.862	(1.000)	3312932	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	104993	2.16293	574.1799
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	3678698	40.0000	
* 23 Perylene-d12	264	9.027	9.039	(1.000)	3320800	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	8059	0.13917	36.9449
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	5196	0.13800	36.6336
4 1-Methylnaphthalene	142	4.322	4.321	(1.131)	4566	0.13334	35.3956(Q)
11 Phenanthrene	178	5.874	5.880	(1.002)	33240	0.33614	89.2317
15 Fluoranthene	202	6.715	6.721	(1.145)	62757	0.64947	172.4107
16 Pyrene	202	6.886	6.886	(0.882)	56292	0.57478	152.5844
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	45237	0.44593	118.3771
19 Chrysene	228	7.827	7.833	(1.002)	37332	0.35626	94.5752
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	41789	0.51328	136.2580

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
21 Benzo(k)fluoranthene	252	8.686	8.697	(0.962)	16905	0.18848	50.0338(Q)
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	23801	0.30722	81.5569
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.268	(1.135)	17775	0.23888	63.4143(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.286	(1.136)	4929	0.07024	18.6473(QH)
26 Benzo(g,h,i)perylene	276	10.609	10.639	(1.175)	22594	0.29892	79.3528(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB14015.D

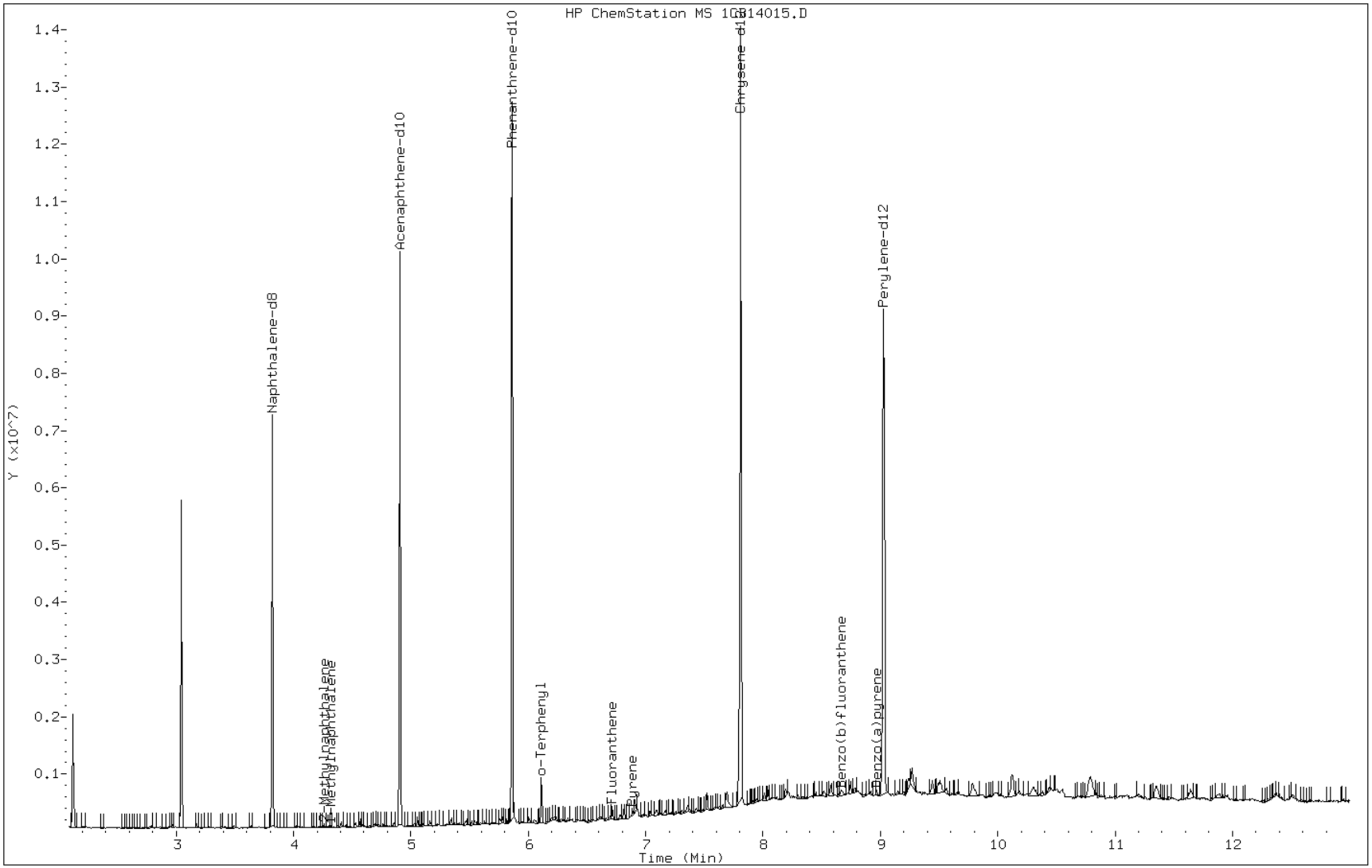
Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS

Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A

Operator: SCC



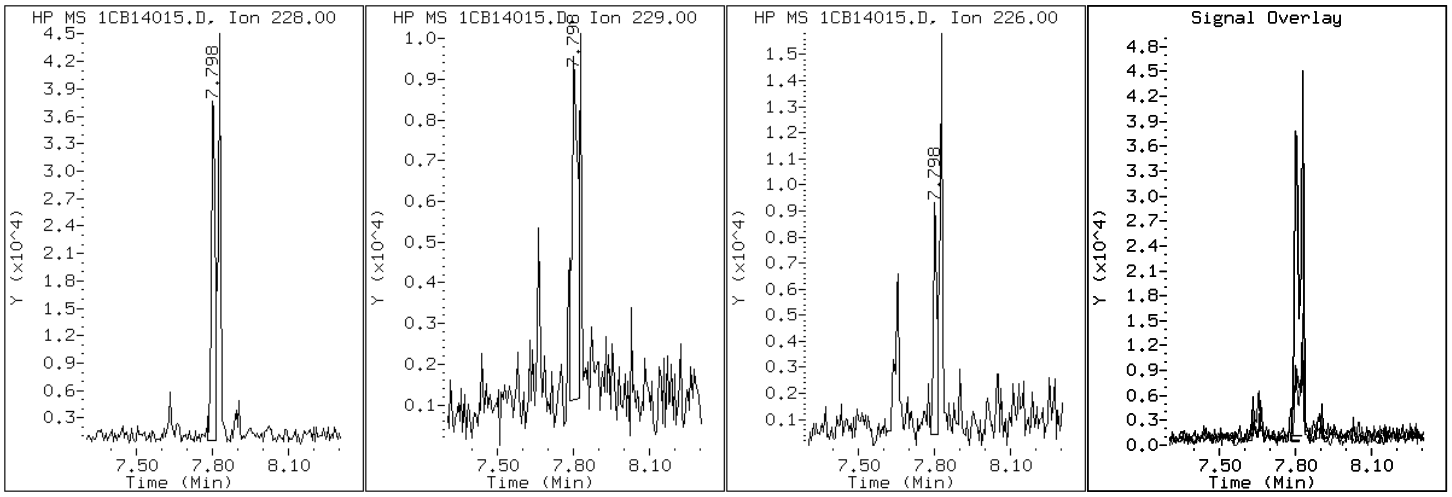
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

17 Benzo(a)anthracene



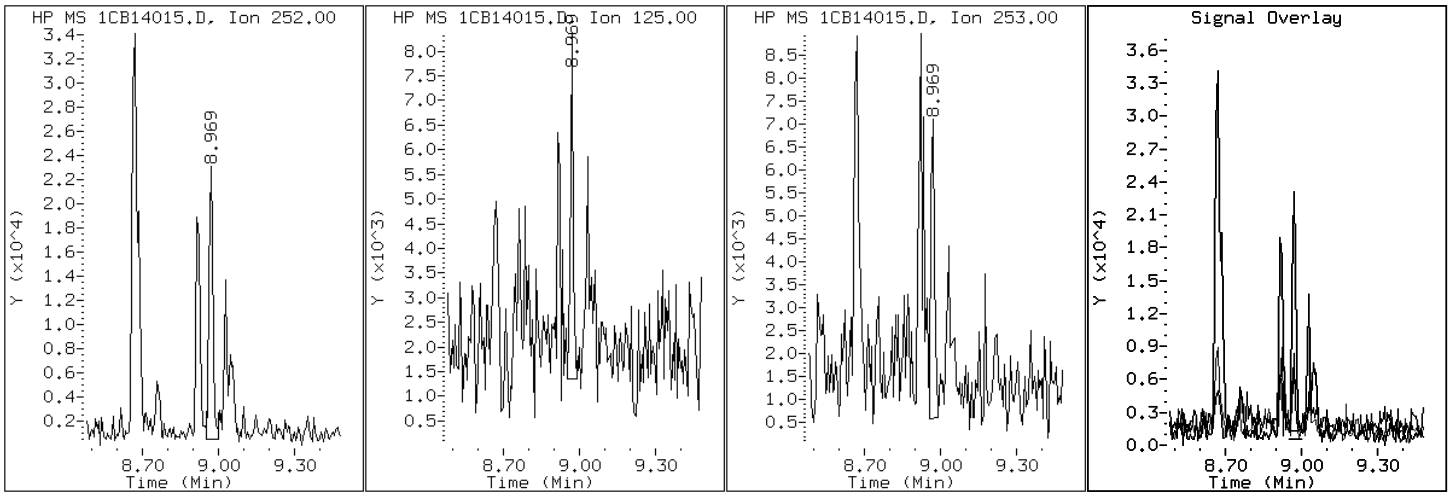
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

22 Benzo(a)pyrene



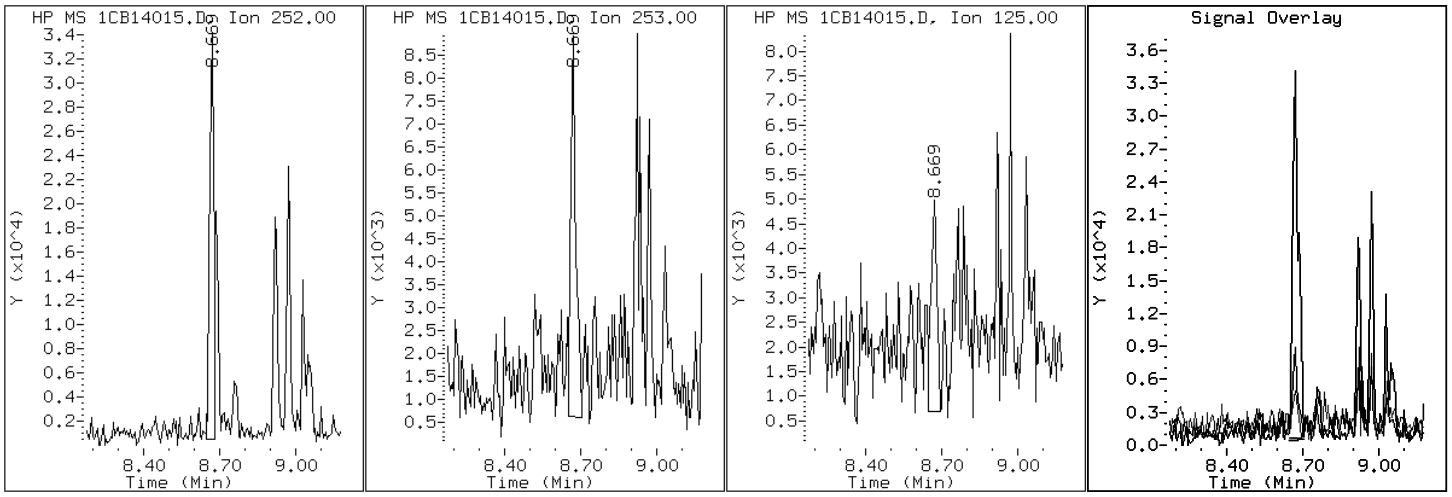
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

20 Benzo(b)fluoranthene



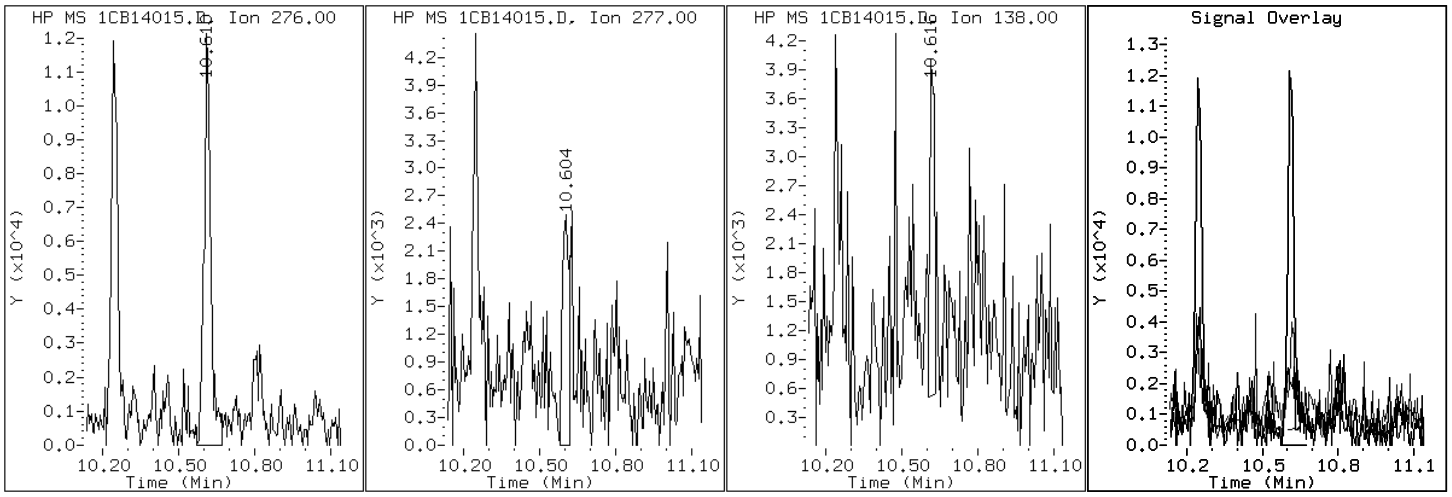
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

26 Benzo(g,h,i)perylene



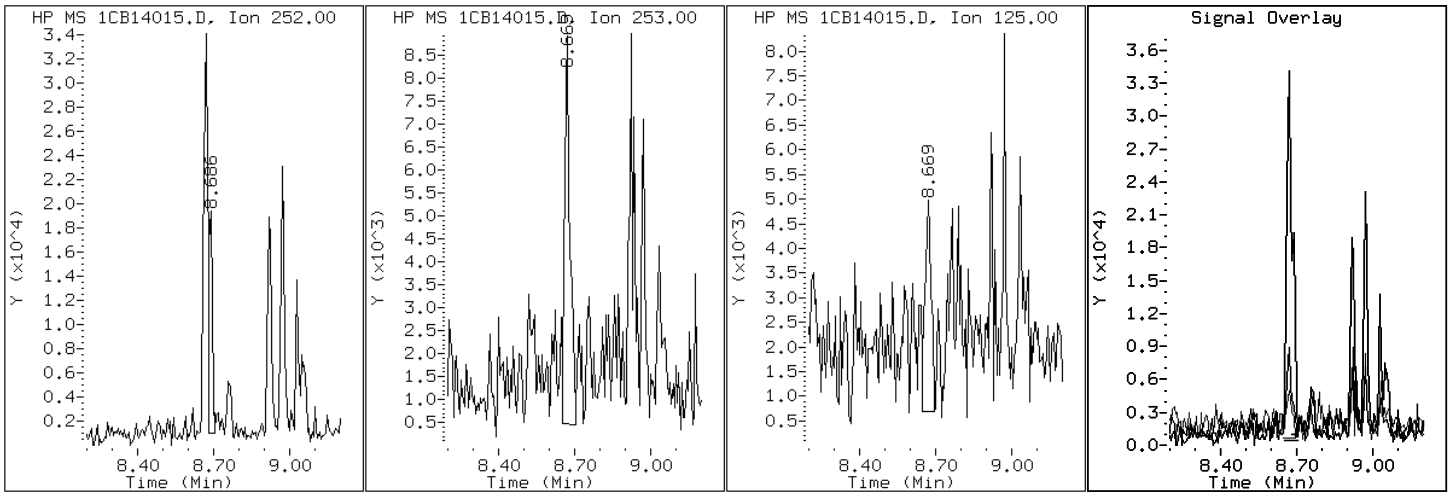
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

21 Benzo(k)fluoranthene



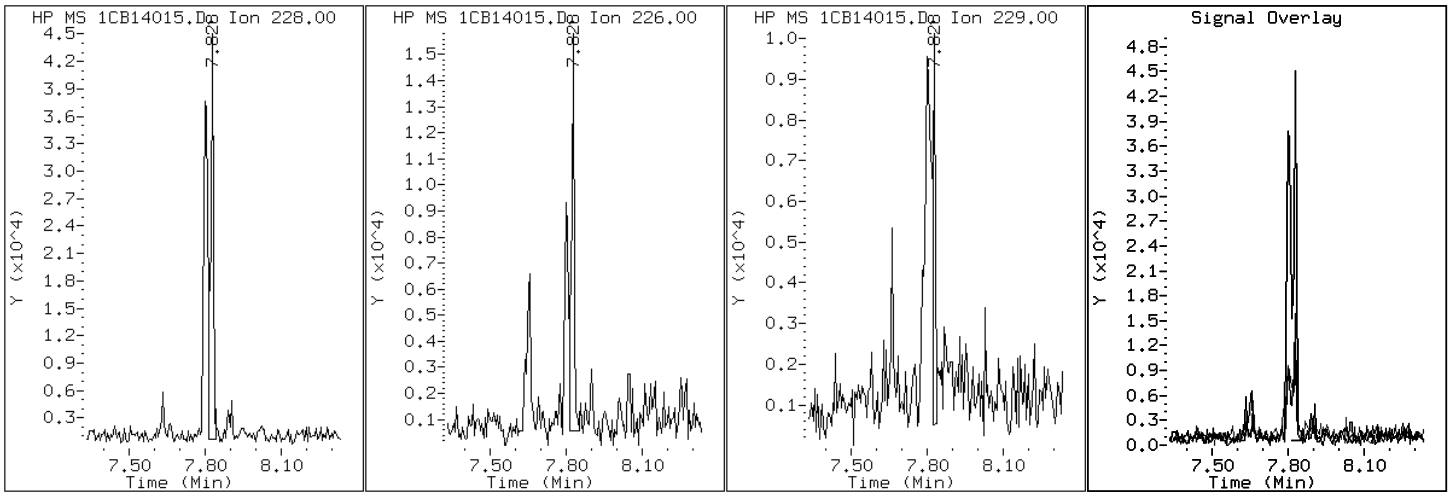
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

19 Chrysene



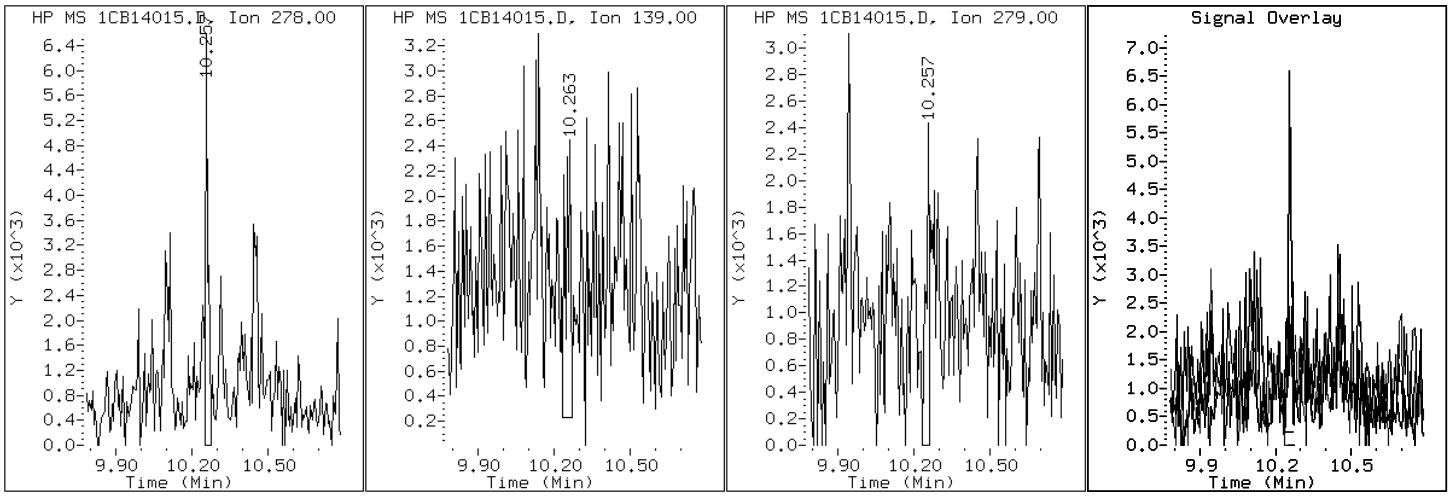
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

25 Dibenzo(a,h)anthracene



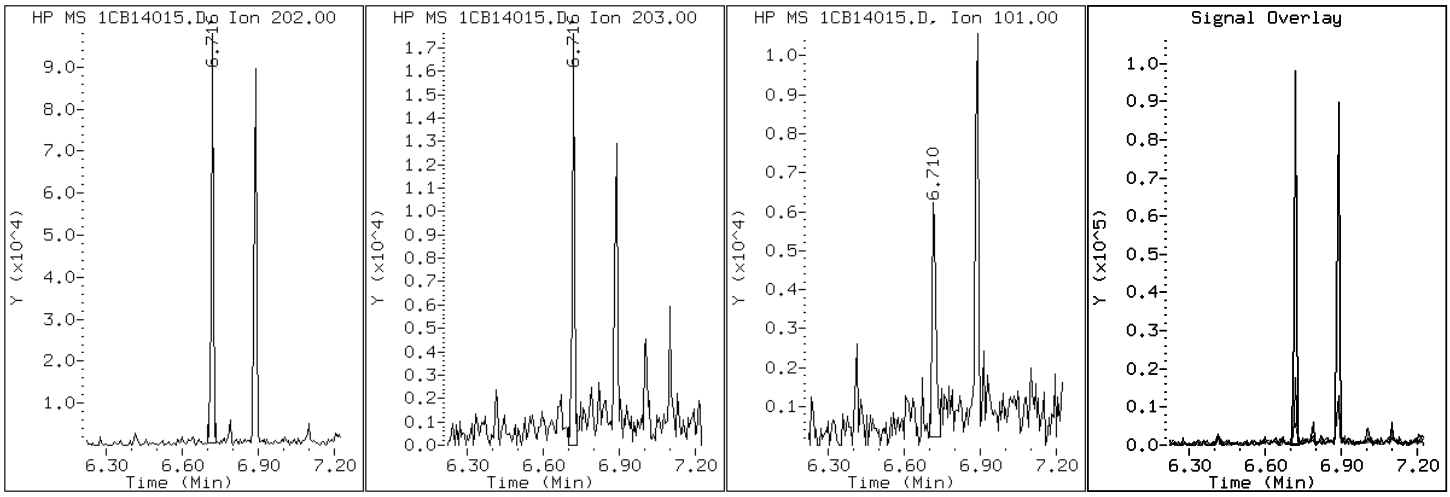
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

15 Fluoranthene



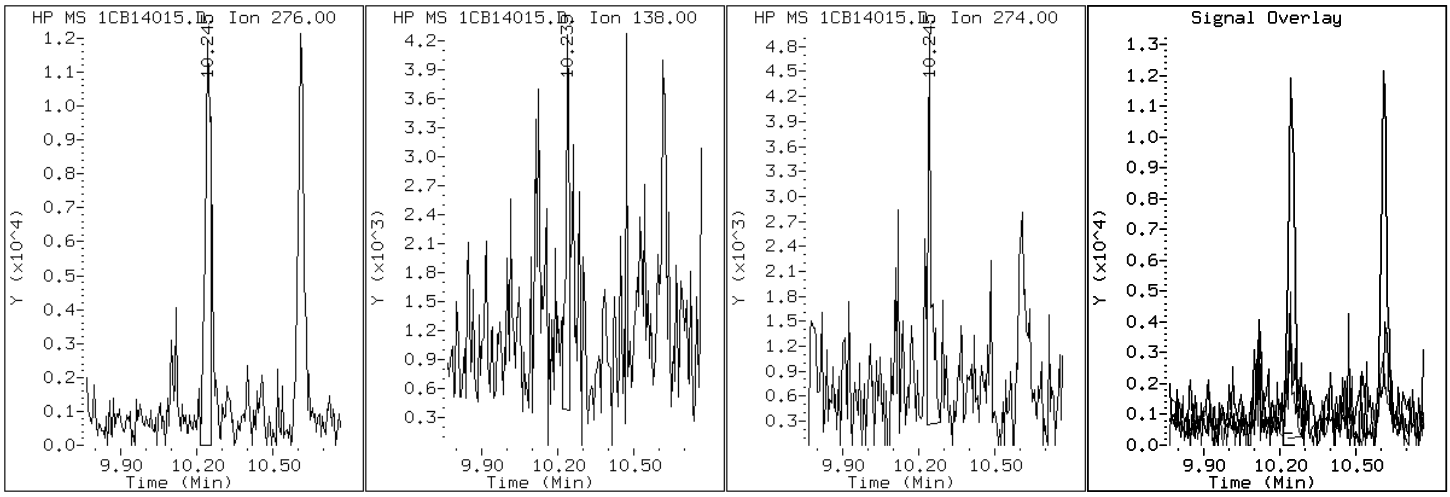
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

24 Indeno(1,2,3-cd)pyrene



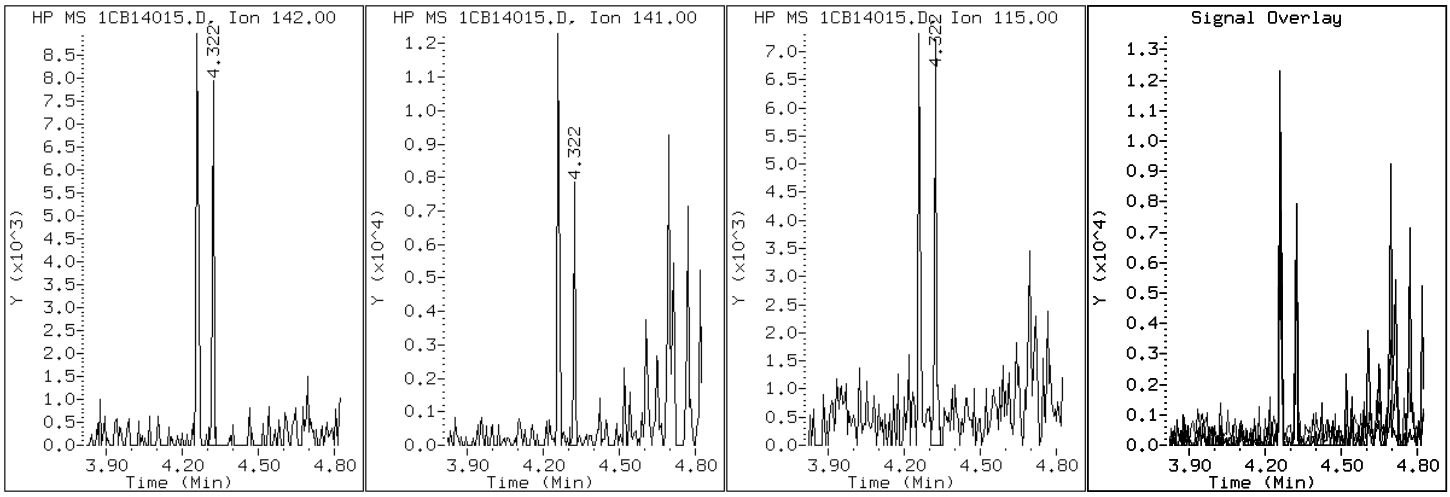
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

4 1-Methylnaphthalene



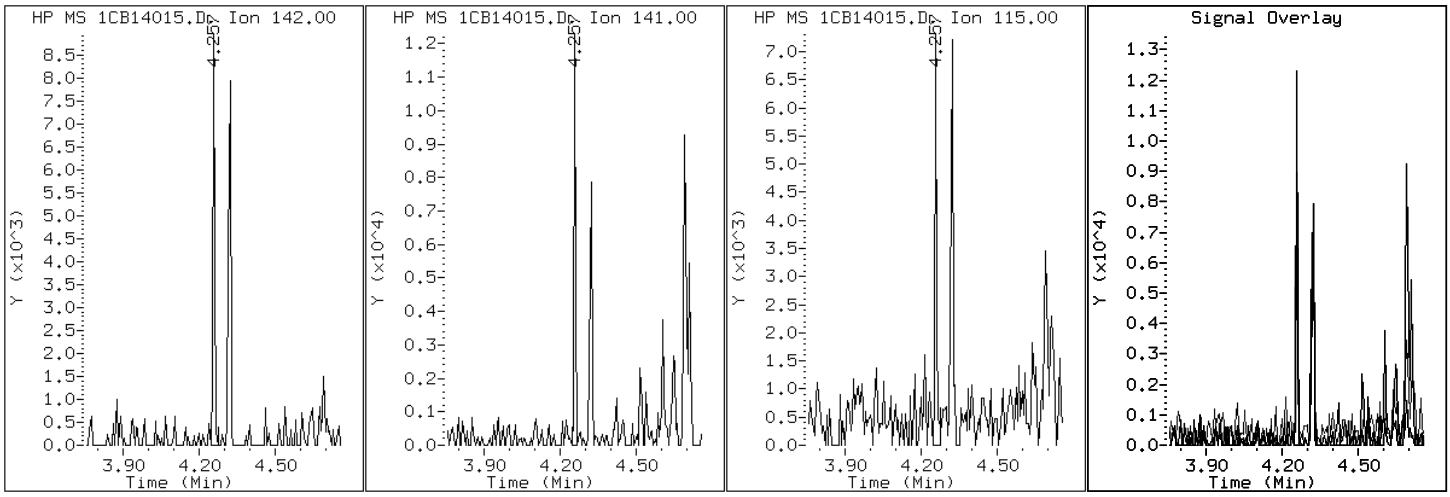
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

3 2-Methylnaphthalene



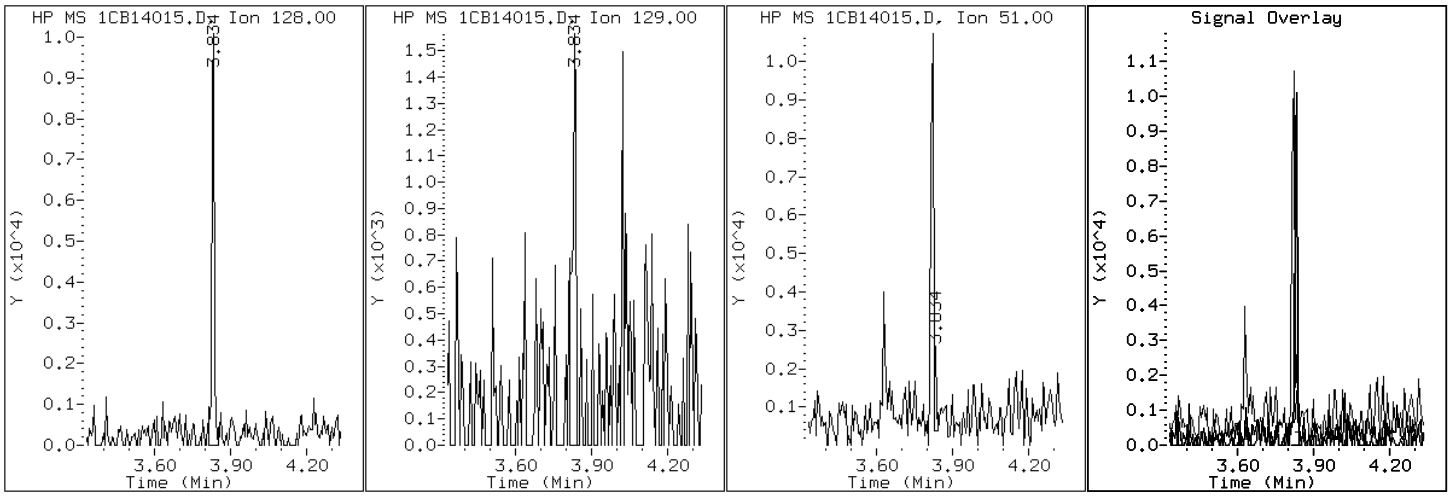
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

2 Naphthalene



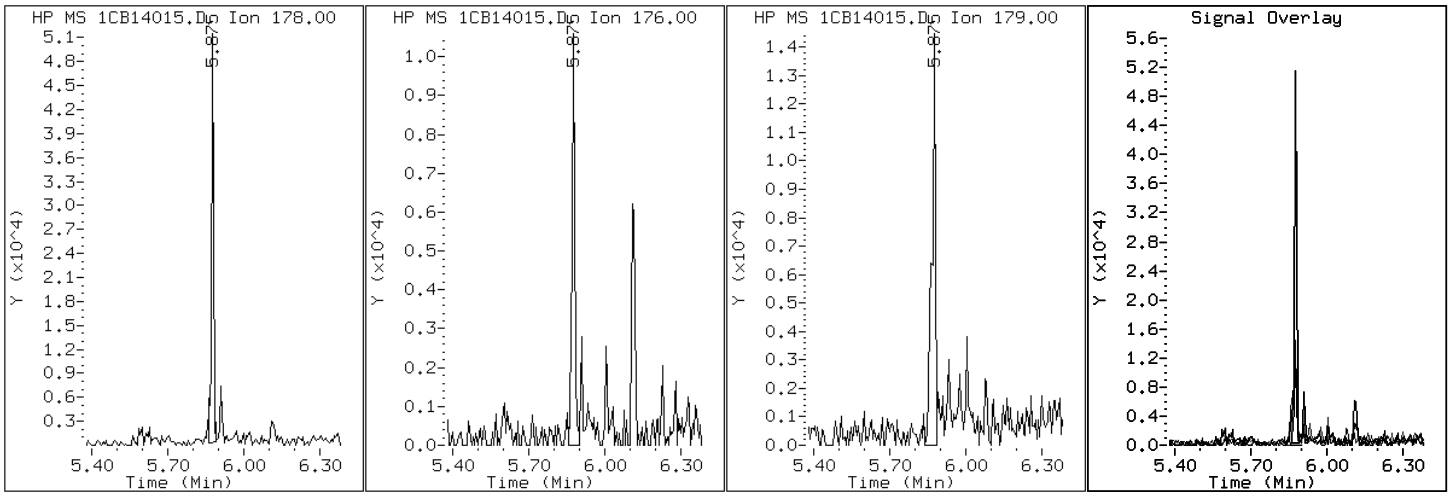
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

11 Phenanthrene



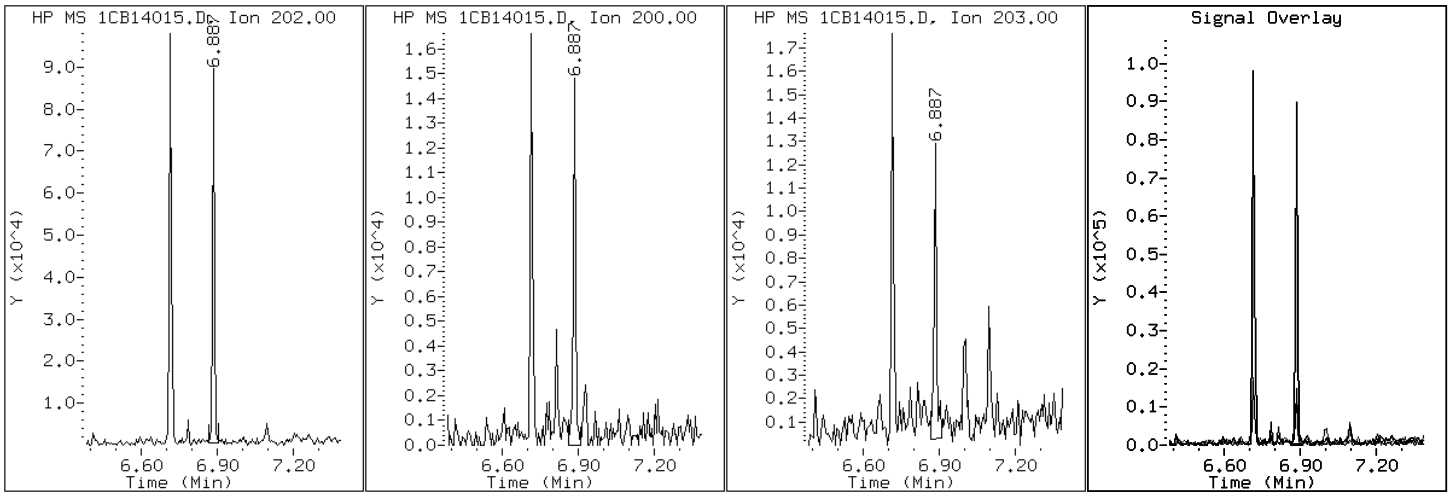
Data File: 1CB14015.D

Date: 14-FEB-2013 18:39

Client ID: CV0748GG-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-15-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB14015.D
Inj. Date and Time: 14-FEB-2013 18:39
Instrument ID: BSMC5973.i
Client ID: CV0748GG-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/15/2013

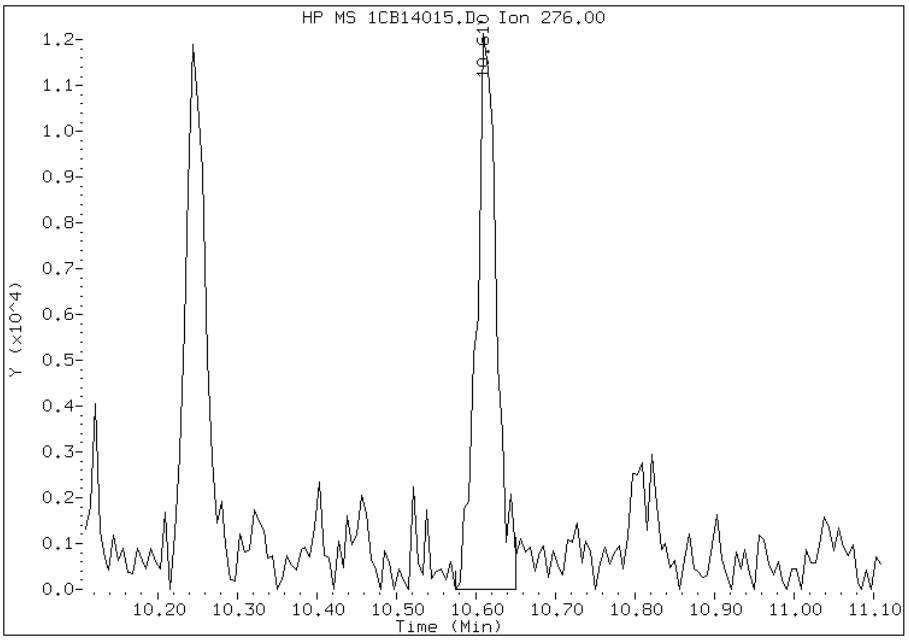
Processing Integration Results

RT: 10.61

Response: 21375

Amount: 0

Conc: 75



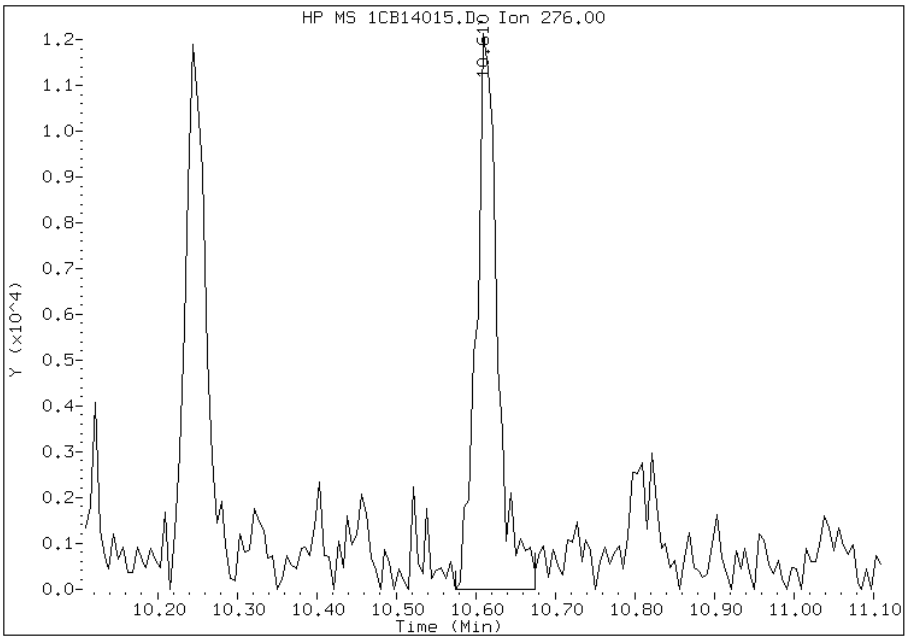
Manual Integration Results

RT: 10.61

Response: 22594

Amount: 0

Conc: 79



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB14015.D
Inj. Date and Time: 14-FEB-2013 18:39
Instrument ID: BSMC5973.i
Client ID: CV0748GG-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

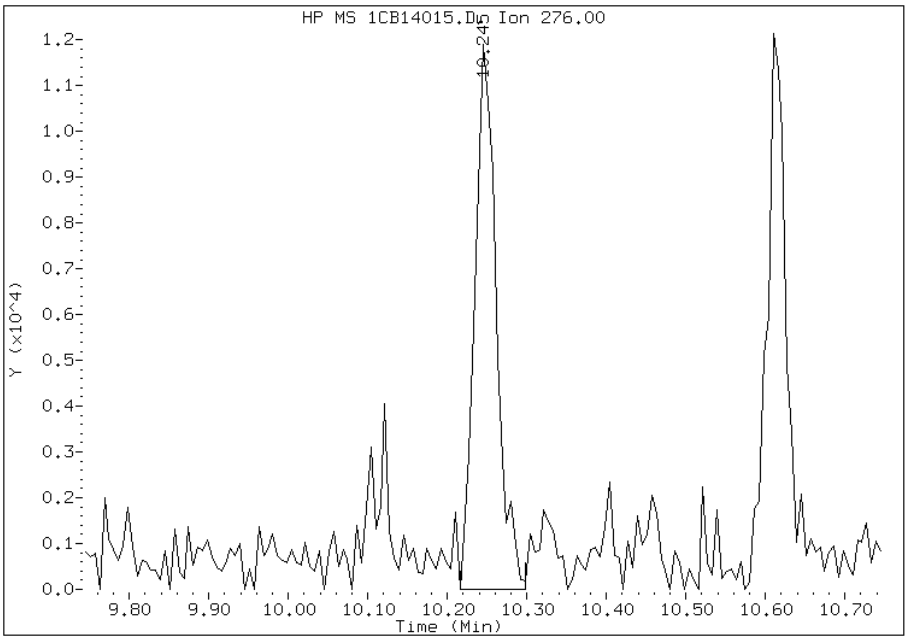
Processing Integration Results

RT: 10.25

Response: 22241

Amount: 0

Conc: 79



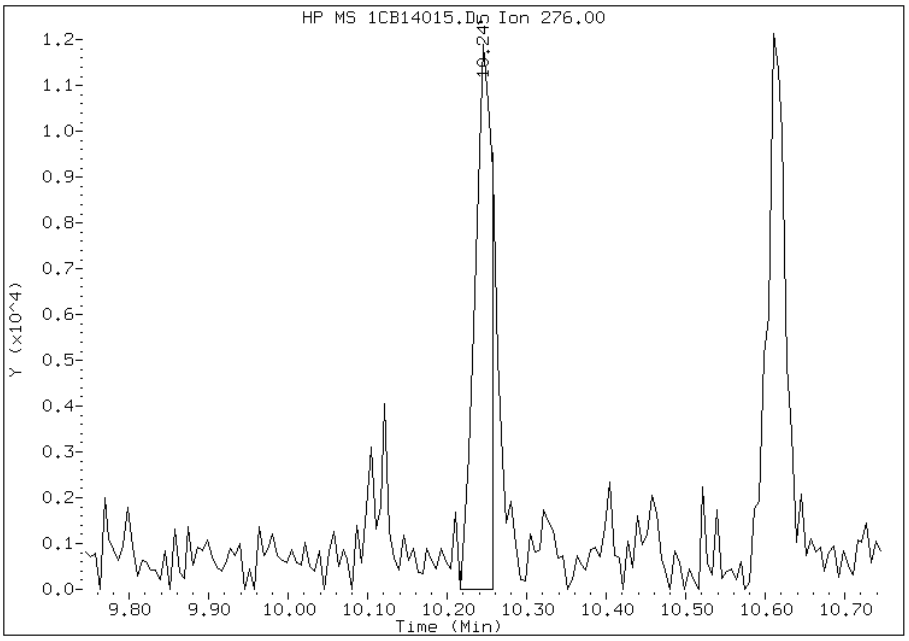
Manual Integration Results

RT: 10.25

Response: 17775

Amount: 0

Conc: 63



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: CV0748HH-CS | Lab Sample ID: 680-87279-16

Matrix: Solid | Lab File ID: 1CB15006.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:10

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.13(g) | Date Analyzed: 02/15/2013 12:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 7.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430	U	430	86
208-96-8	Acenaphthylene	170	U	170	21
120-12-7	Anthracene	22	J	36	18
56-55-3	Benzo[a]anthracene	190		34	17
50-32-8	Benzo[a]pyrene	160		45	22
205-99-2	Benzo[b]fluoranthene	240		52	26
191-24-2	Benzo[g,h,i]perylene	150		86	19
207-08-9	Benzo[k]fluoranthene	110		34	15
218-01-9	Chrysene	180		39	19
53-70-3	Dibenz(a,h)anthracene	38	J	86	18
206-44-0	Fluoranthene	270		86	17
86-73-7	Fluorene	86	U	86	18
193-39-5	Indeno[1,2,3-cd]pyrene	110		86	30
90-12-0	1-Methylnaphthalene	53	J	170	19
91-57-6	2-Methylnaphthalene	70	J	170	30
91-20-3	Naphthalene	78	J	170	19
85-01-8	Phenanthrene	140		34	17
129-00-0	Pyrene	240		86	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	99		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15006.D
Lab Smp Id: 680-87279-A-16-A Client Smp ID: CV0748HH-CS
Inj Date : 15-FEB-2013 12:43
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87279-A-16-A
Misc Info : 680-87279-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 6
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	7.598	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	1922249	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1431014	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	2774175	40.0000	
$ 14 o-Terphenyl	230	6.109	6.115	(1.042)	100170	2.46433	705.0761
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3083234	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2889990	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	13895	0.27279	78.0480(Q)
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	8092	0.24432	69.9030
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	5614	0.18637	53.3232
11 Phenanthrene	178	5.874	5.880	(1.002)	39680	0.47919	137.1010
12 Anthracene	178	5.910	5.910	(1.008)	5619	0.07531	21.5485
13 Carbazole	167	6.015	6.015	(1.026)	5599	0.08640	24.7195
15 Fluoranthene	202	6.715	6.721	(1.145)	76943	0.95092	272.0708
16 Pyrene	202	6.886	6.886	(0.882)	69157	0.84252	241.0567
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	57053	0.67102	191.9871

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	7.827	7.833	(1.002)	56305	0.64110	183.4267
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	59781	0.84373	241.4024
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	30394	0.38938	111.4077(Q)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	36787	0.54563	156.1127
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	24155	0.37301	106.7243(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.280	(1.135)	8031	0.13151	37.6275
26 Benzo(g,h,i)perylene	276	10.615	10.633	(1.175)	34061	0.51781	148.1512

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB15006.D

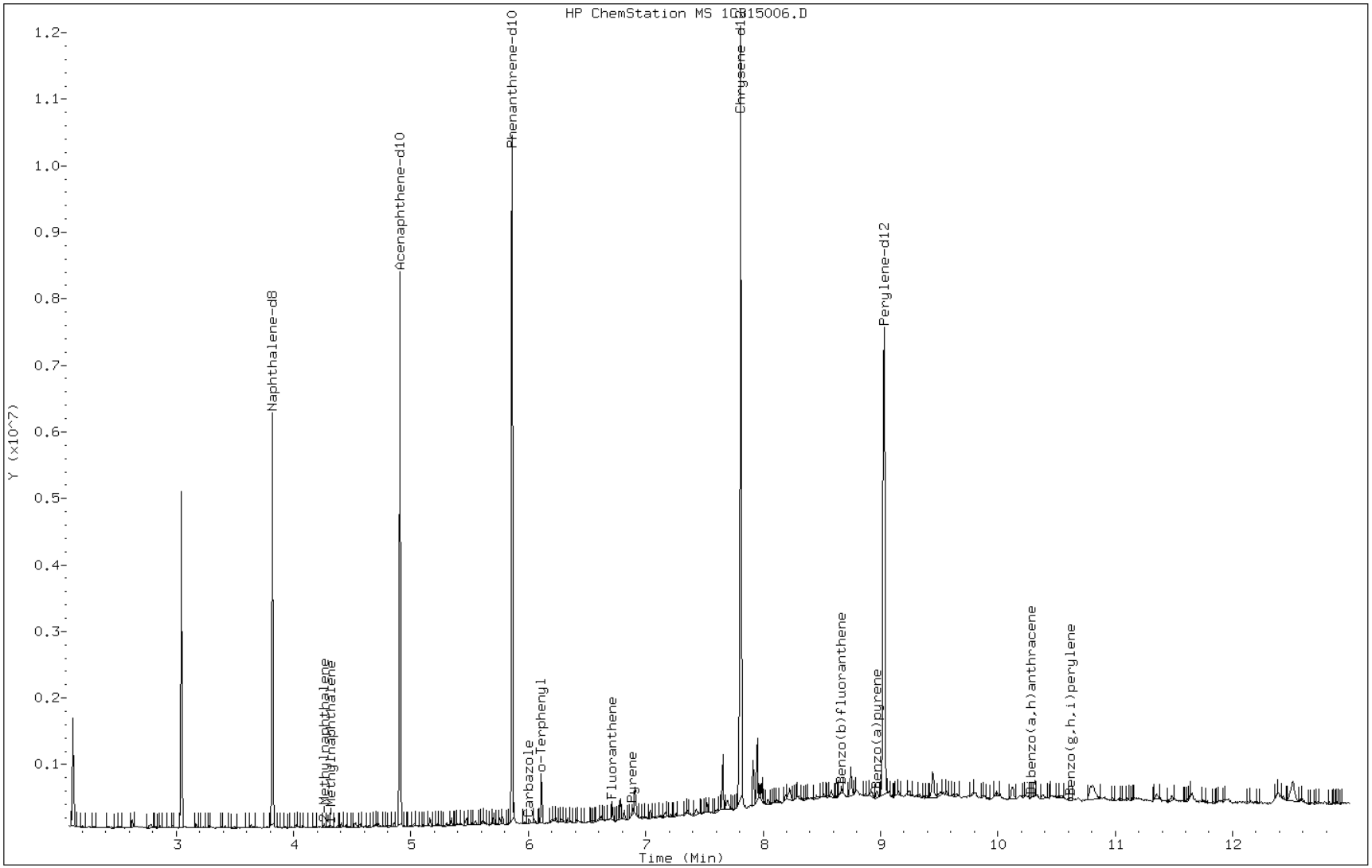
Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS

Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A

Operator: SCC



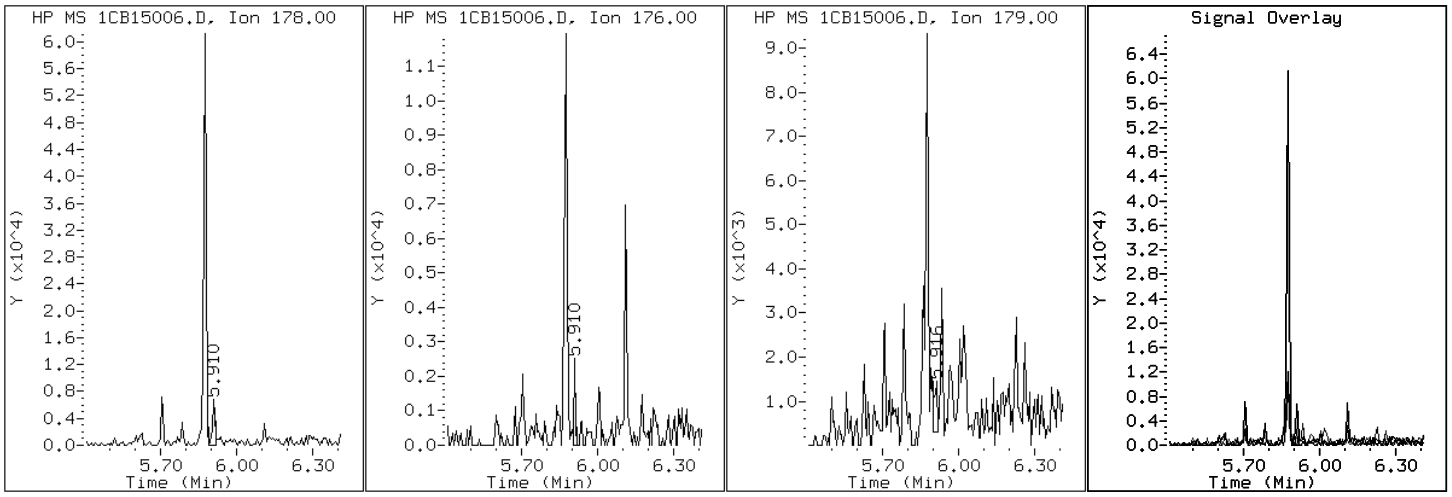
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

12 Anthracene



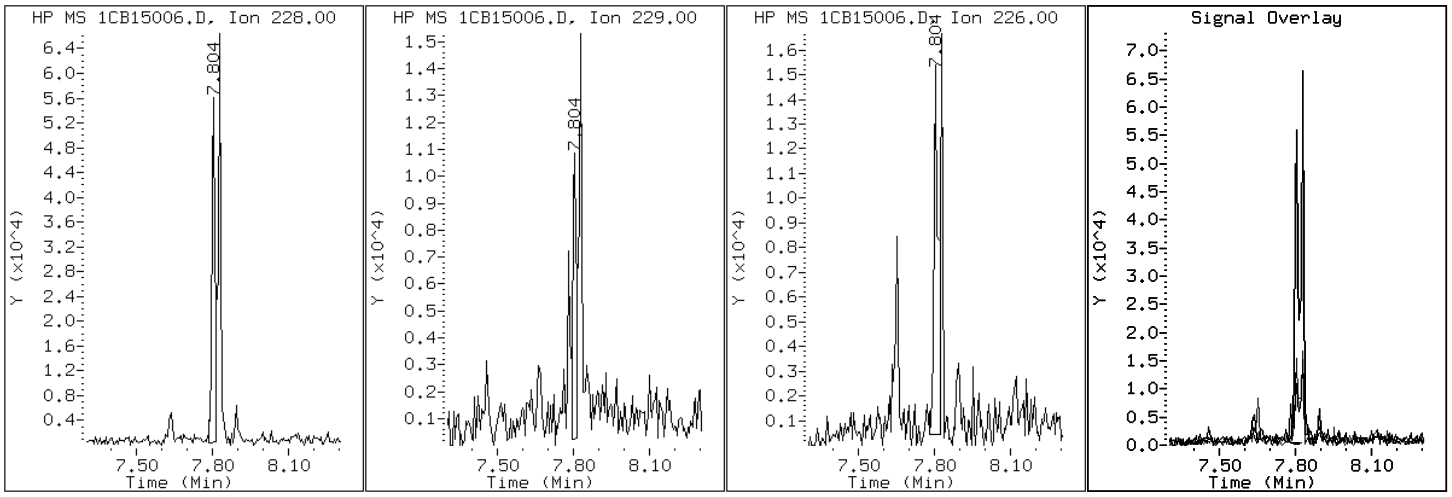
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

17 Benzo(a)anthracene



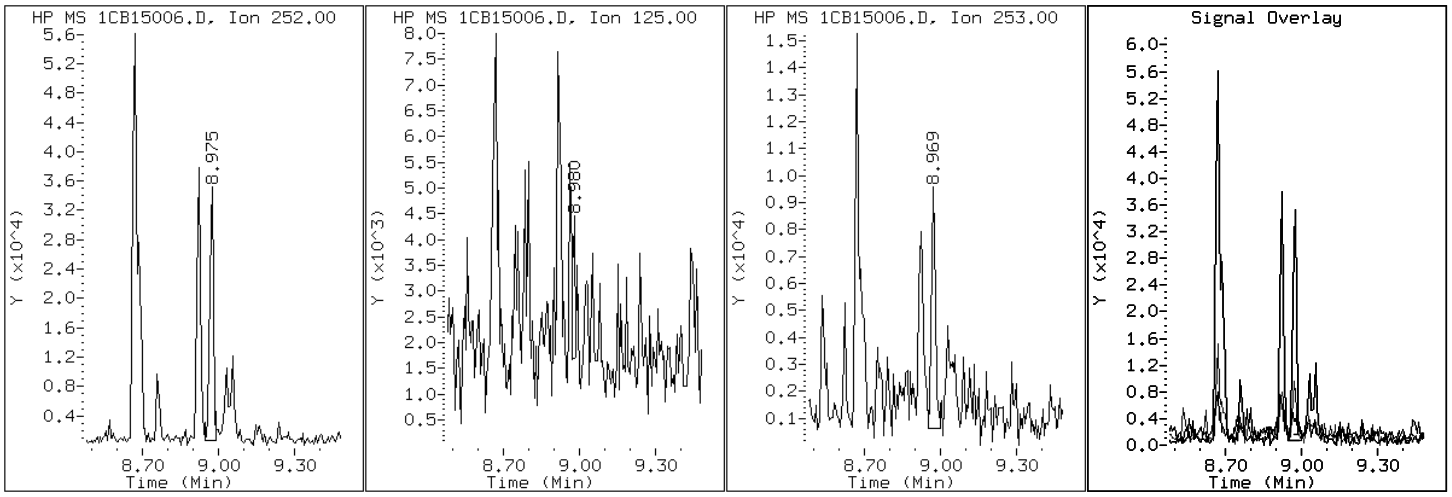
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

22 Benzo(a)pyrene



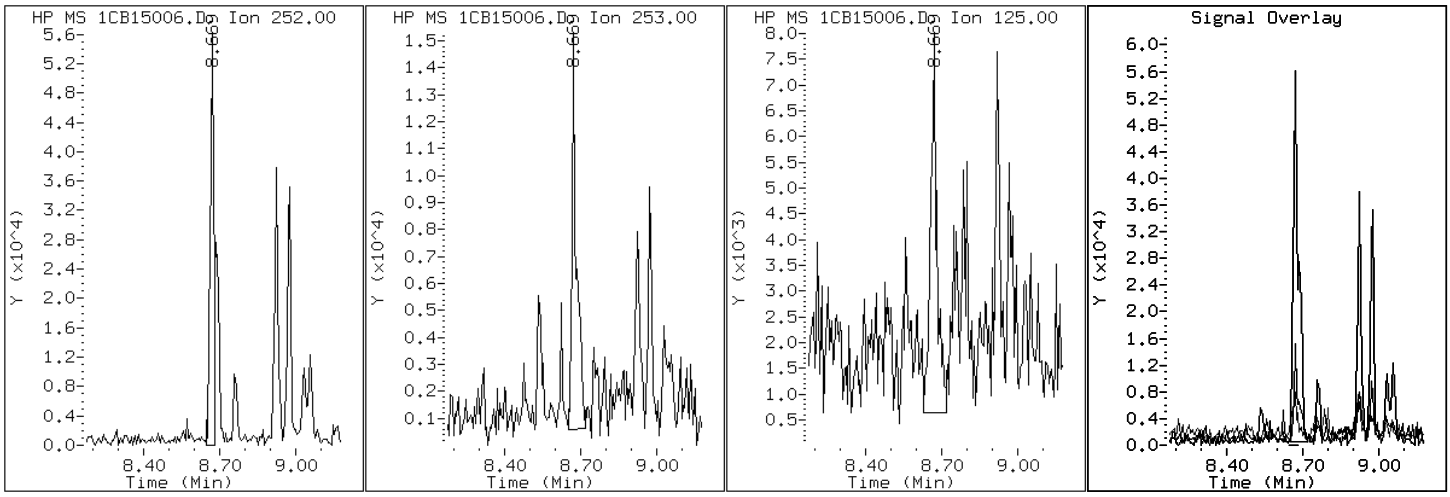
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

20 Benzo(b)fluoranthene



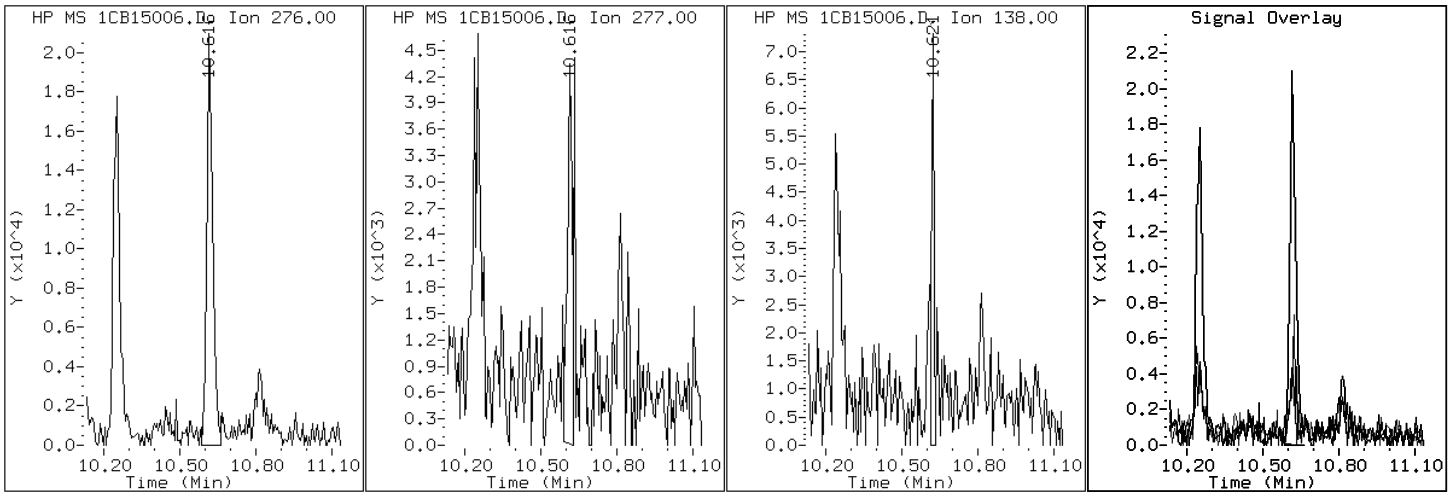
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

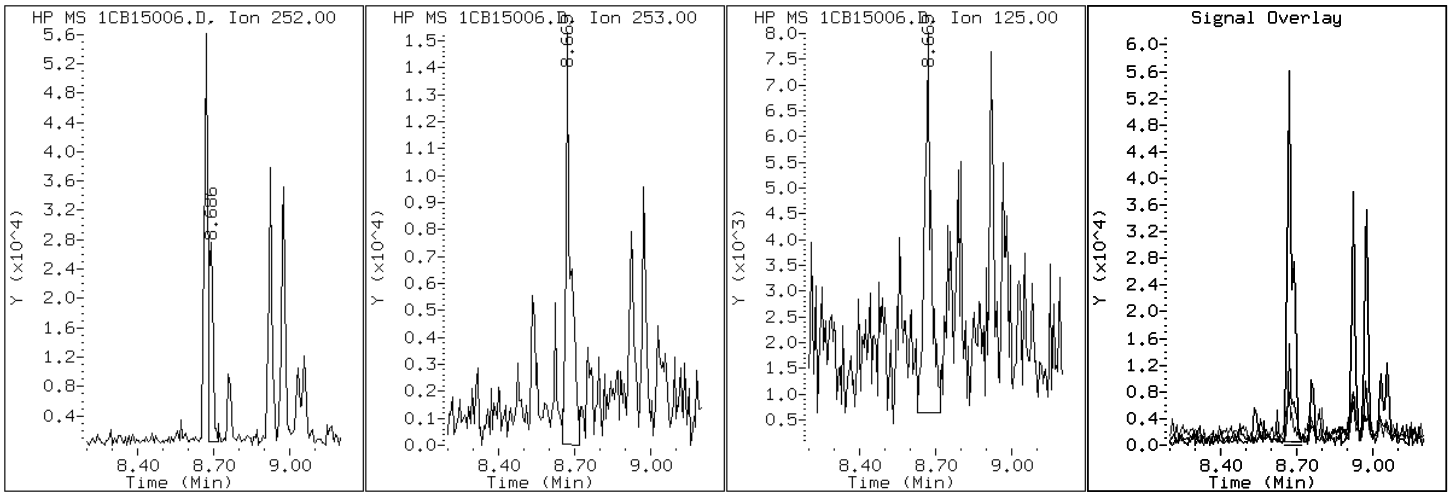
Client ID: CV0748HH-CS

Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A

Operator: SCC

21 Benzo(k)fluoranthene



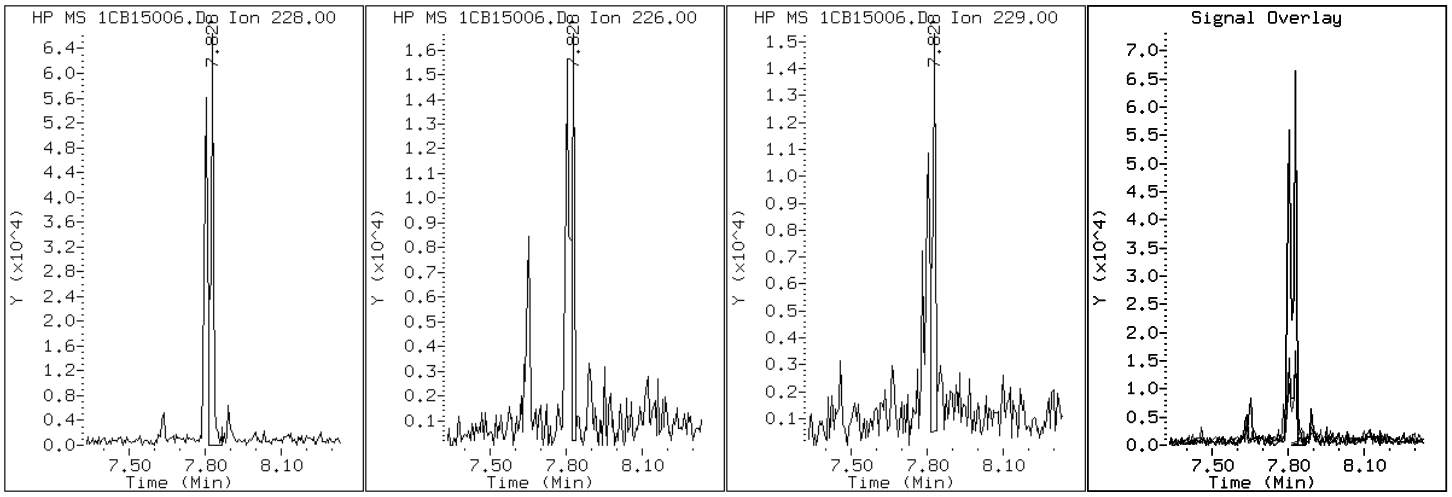
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

19 Chrysene



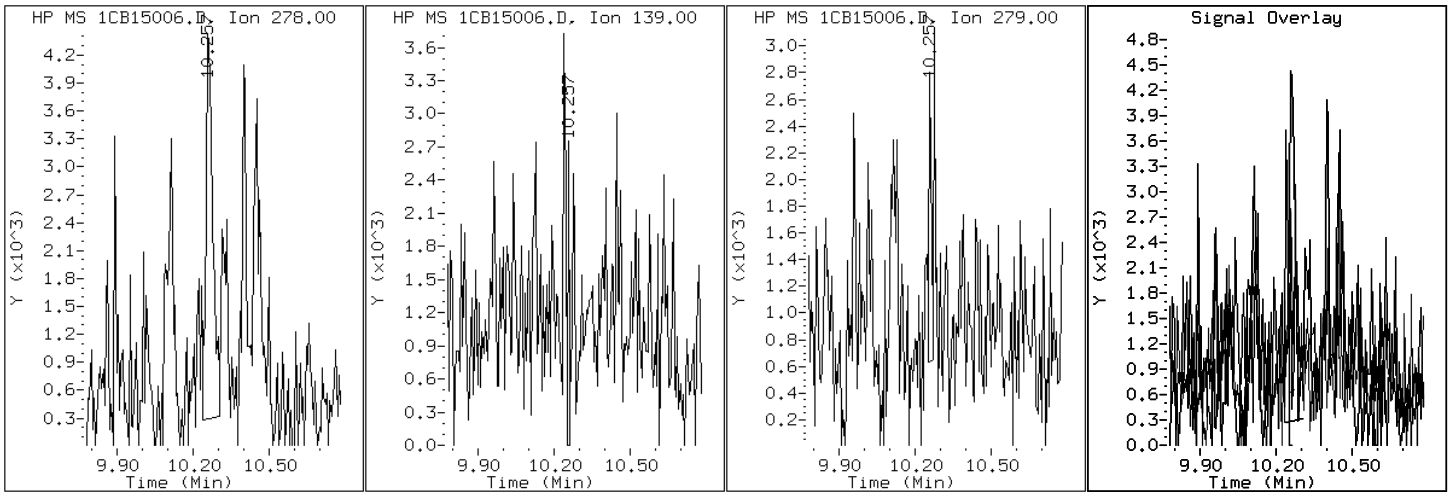
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

25 Dibenzo(a,h)anthracene



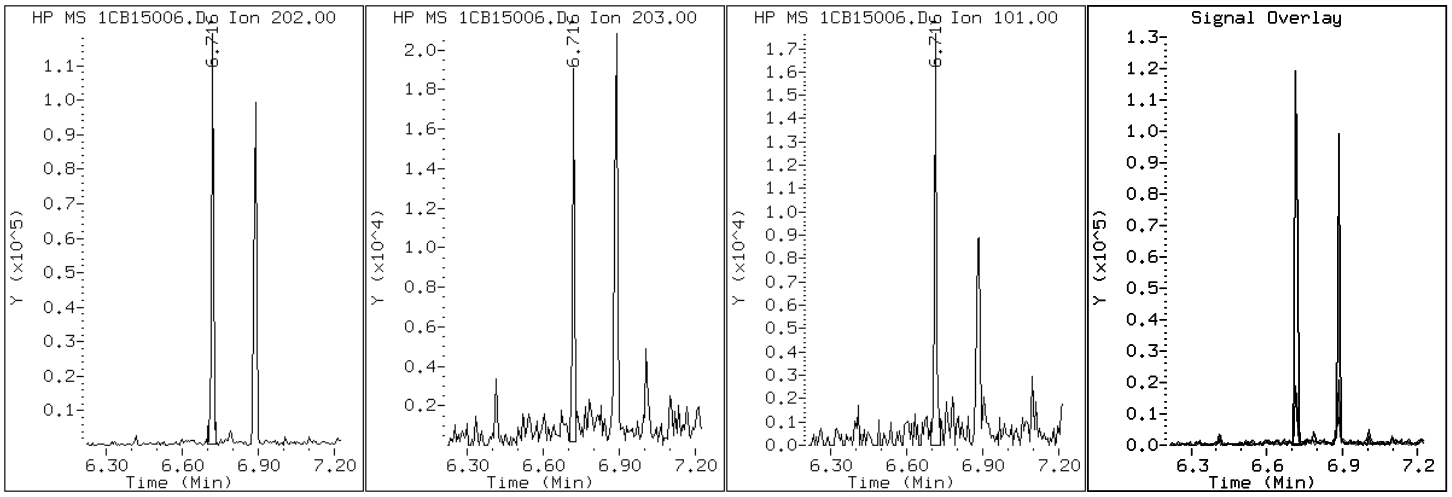
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

15 Fluoranthene



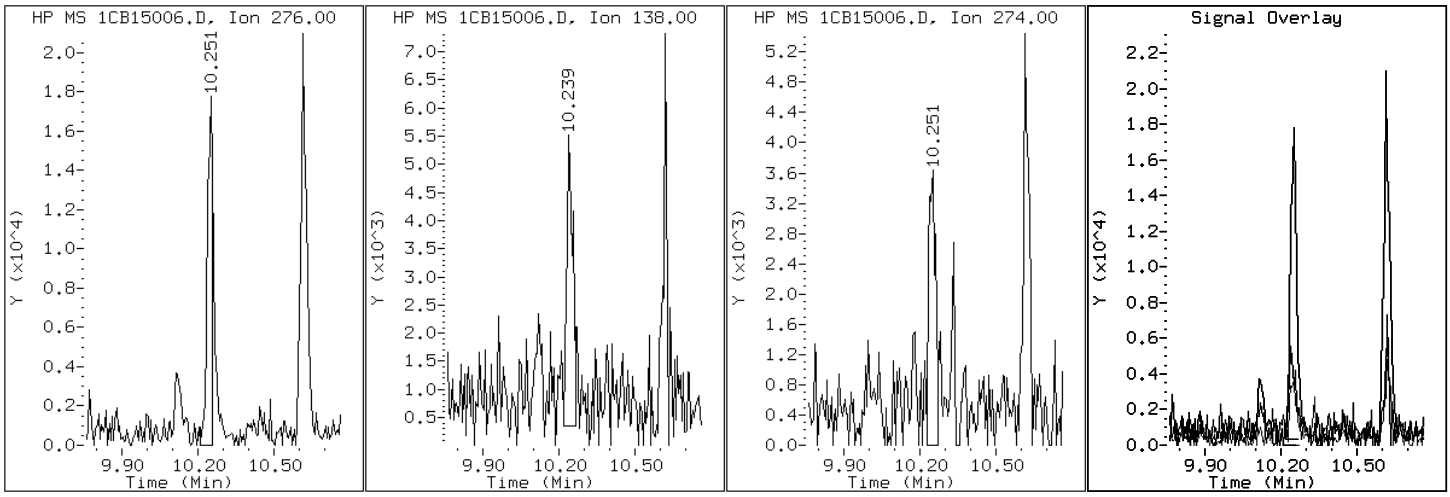
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

24 Indeno(1,2,3-cd)pyrene



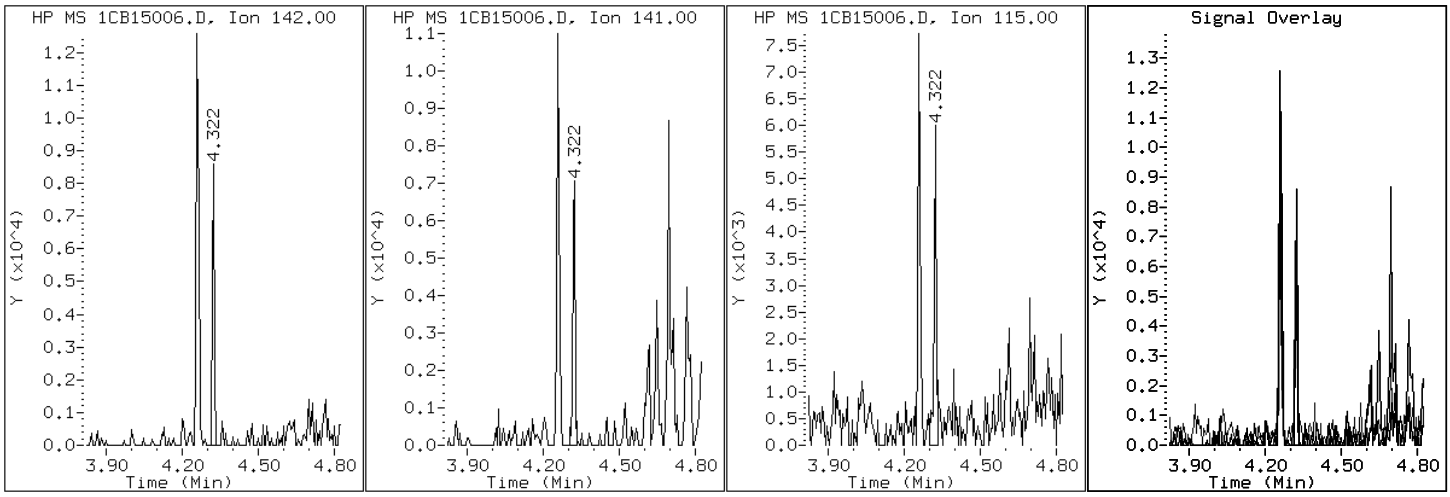
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

4 1-Methylnaphthalene



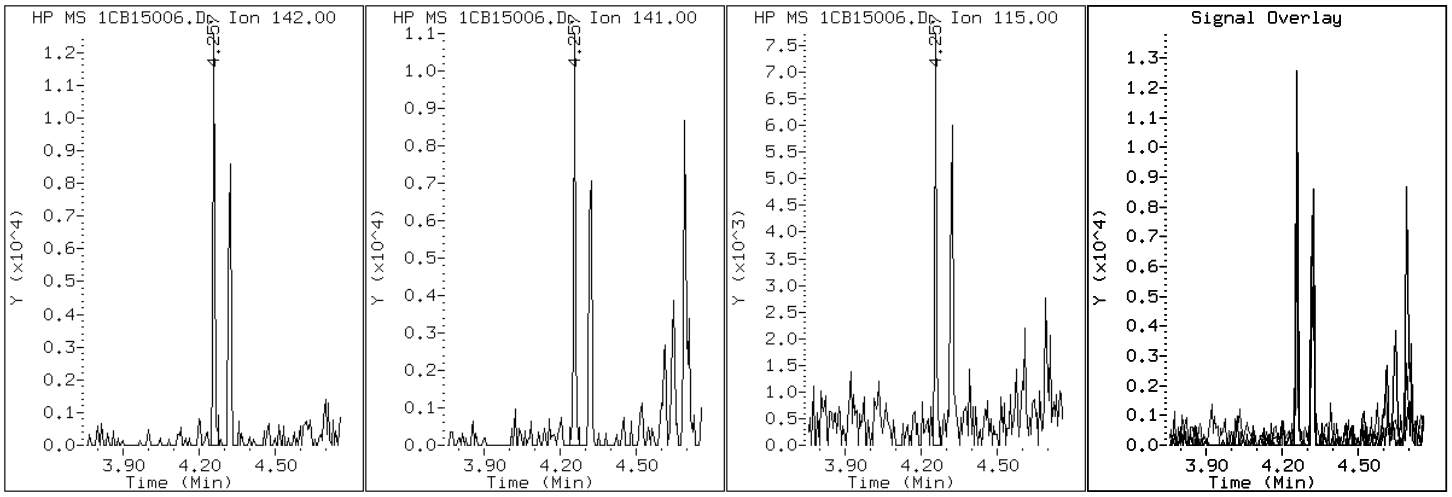
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

3 2-Methylnaphthalene



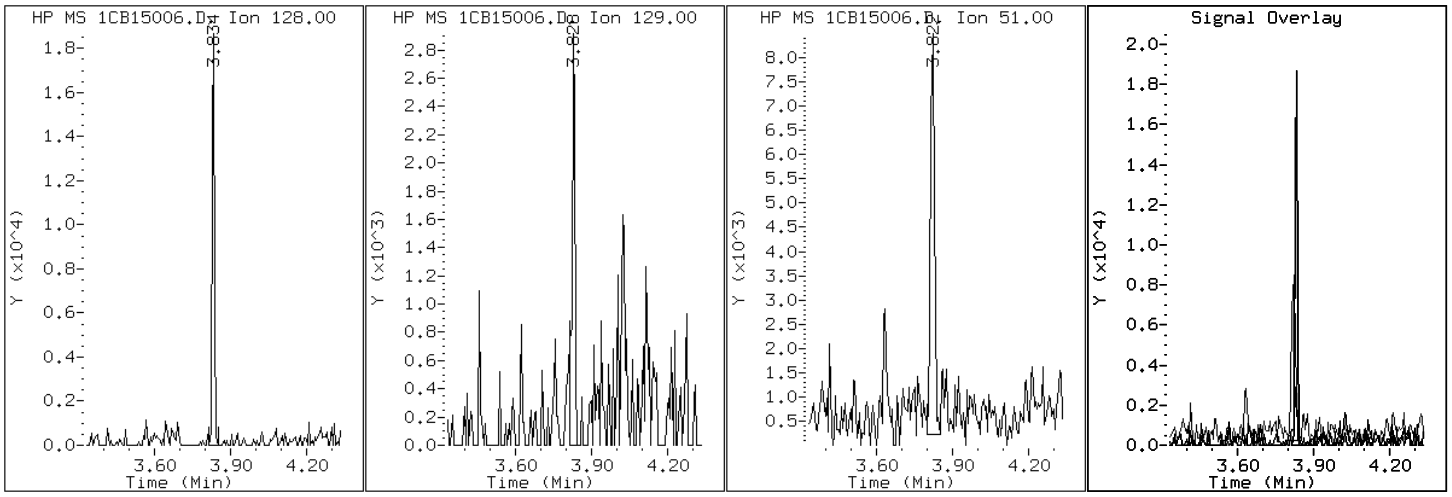
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

2 Naphthalene



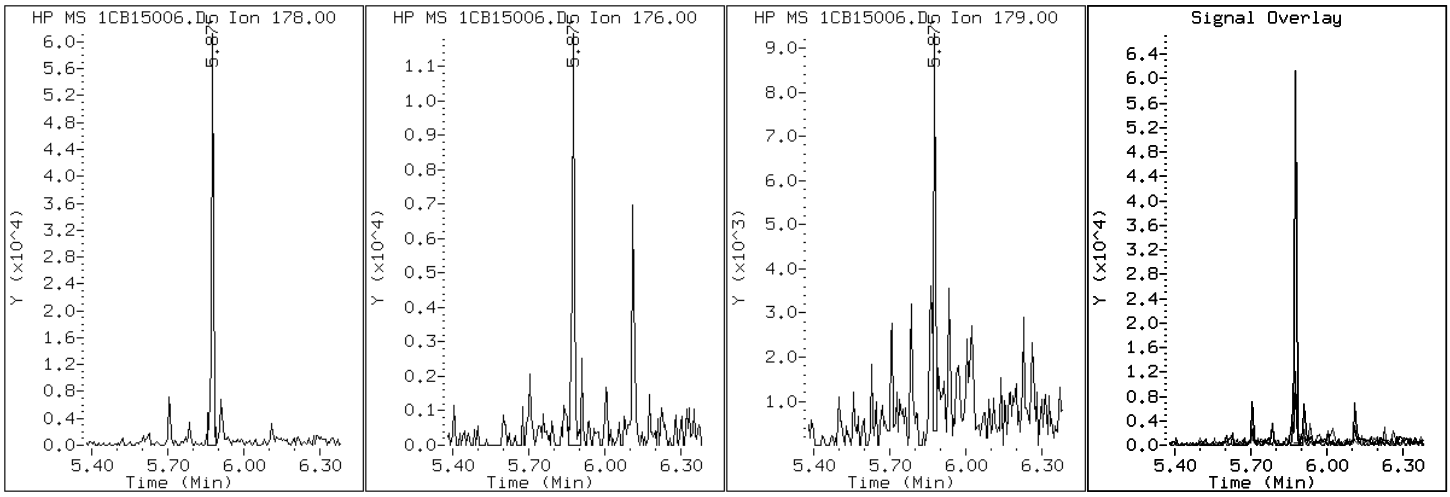
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

11 Phenanthrene



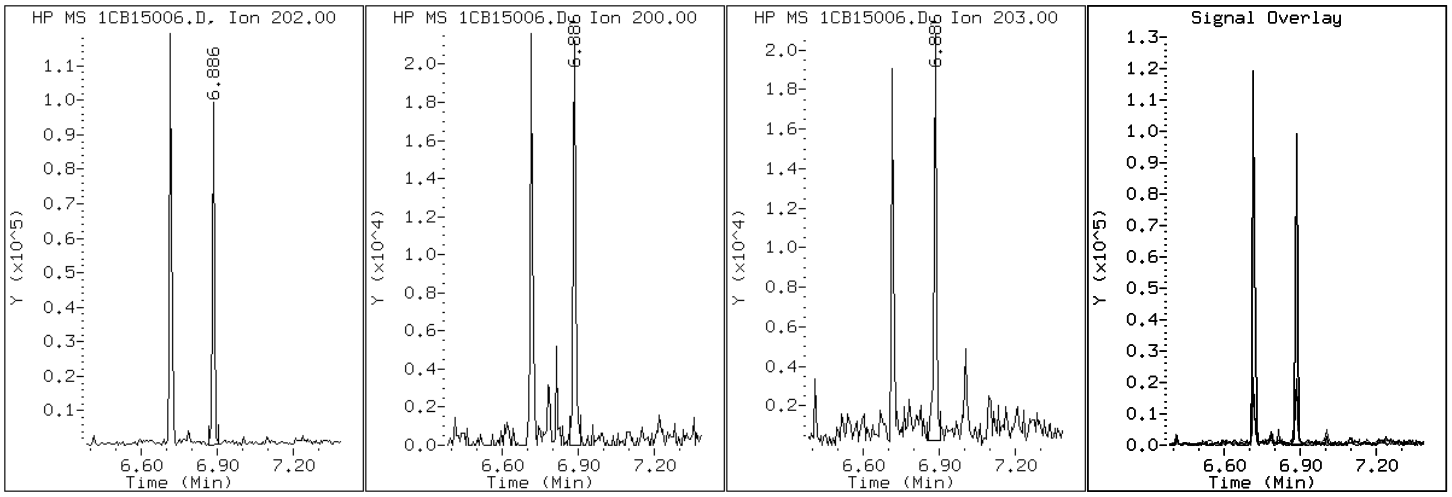
Data File: 1CB15006.D

Date: 15-FEB-2013 12:43

Client ID: CV0748HH-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-16-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15006.D
Inj. Date and Time: 15-FEB-2013 12:43
Instrument ID: BSMC5973.i
Client ID: CV0748HH-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

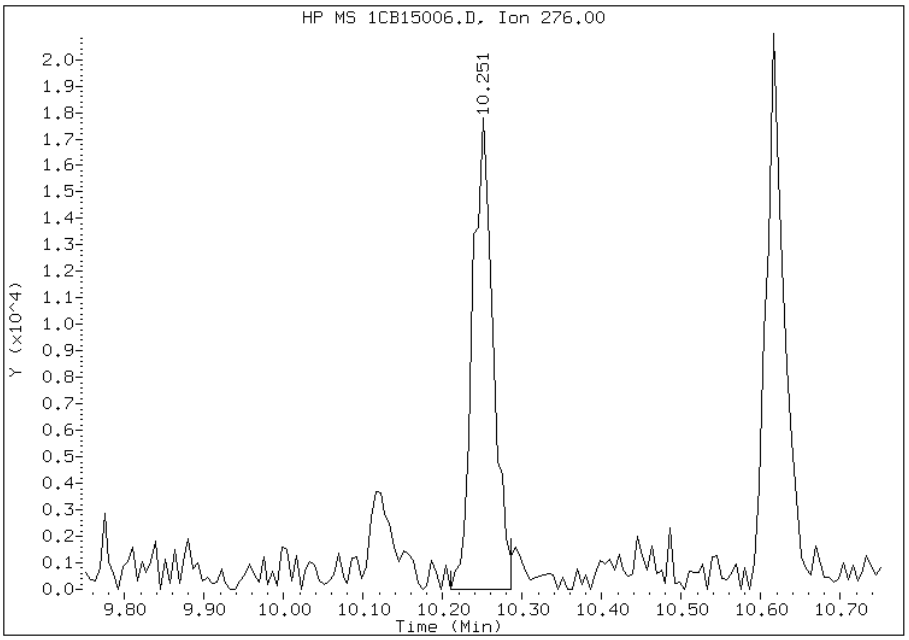
Processing Integration Results

RT: 10.25

Response: 31946

Amount: 0

Conc: 141



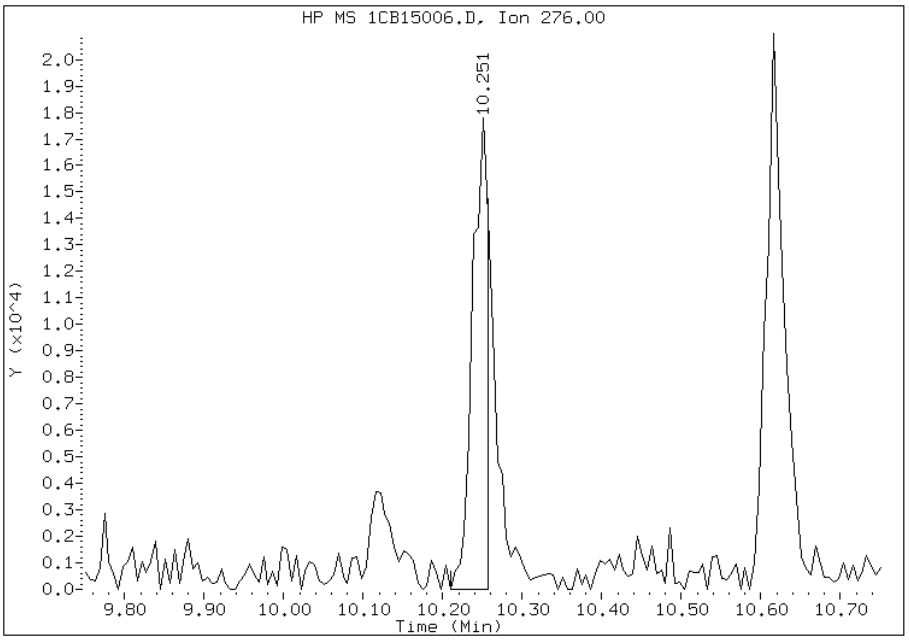
Manual Integration Results

RT: 10.25

Response: 24155

Amount: 0

Conc: 107



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 14:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: CV0748KK-CS | Lab Sample ID: 680-87279-17

Matrix: Solid | Lab File ID: 1CB18008.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:41

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 14.94(g) | Date Analyzed: 02/18/2013 15:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 2.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	8.0	J	41	5.1
120-12-7	Anthracene	17		8.6	4.3
56-55-3	Benzo[a]anthracene	100		8.2	4.0
50-32-8	Benzo[a]pyrene	91		11	5.3
205-99-2	Benzo[b]fluoranthene	140		13	6.3
191-24-2	Benzo[g,h,i]perylene	75		21	4.5
207-08-9	Benzo[k]fluoranthene	55		8.2	3.7
218-01-9	Chrysene	100		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	19	J	21	4.2
206-44-0	Fluoranthene	180		21	4.1
86-73-7	Fluorene	6.5	J	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	63		21	7.3
90-12-0	1-Methylnaphthalene	44		41	4.5
91-57-6	2-Methylnaphthalene	39	J	41	7.3
91-20-3	Naphthalene	34	J	41	4.5
85-01-8	Phenanthrene	97		8.2	4.0
129-00-0	Pyrene	150		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18008.D
Lab Smp Id: 680-87279-A-17-A Client Smp ID: CV0748KK-CS
Inj Date : 18-FEB-2013 15:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87279-A-17-A
Misc Info : 680-87279-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\a-bFASTPAHi-m.m
Meth Date : 18-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	2.188	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	1898345	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1471084	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2693079	40.0000	
$ 14 o-Terphenyl	230	6.104	6.109	(1.042)	242027	6.13351	419.7275
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2931982	40.0000	
* 23 Perylene-d12	264	9.021	9.027	(1.000)	2863209	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	24922	0.49543	33.9032
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	18442	0.56383	38.5836
4 1-Methylnaphthalene	142	4.316	4.315	(1.131)	18920	0.63601	43.5231
5 Acenaphthylene	152	4.816	4.815	(0.982)	6863	0.11726	8.0246
9 Fluorene	166	5.245	5.245	(1.070)	4449	0.09442	6.4614
11 Phenanthrene	178	5.868	5.874	(1.002)	114203	1.42067	97.2191
12 Anthracene	178	5.904	5.909	(1.008)	18027	0.24890	17.0328
13 Carbazole	167	6.010	6.015	(1.026)	15086	0.23980	16.4100

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.710	6.715	(1.146)	202132	2.57333	176.0975
16 Pyrene	202	6.880	6.880	(0.882)	168142	2.15411	147.4093
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	121587	1.50379	102.9074
19 Chrysene	228	7.821	7.827	(1.002)	121775	1.45808	99.7791
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	144214	2.05443	140.5884(M)
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	61649	0.79719	54.5528(QM)
22 Benzo(a)pyrene	252	8.962	8.968	(0.993)	88924	1.33128	91.1017
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.250	(1.135)	59432	0.92637	63.3928(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.268	(1.137)	16997	0.28094	19.2252
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.176)	71770	1.10128	75.3624

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB18008.D

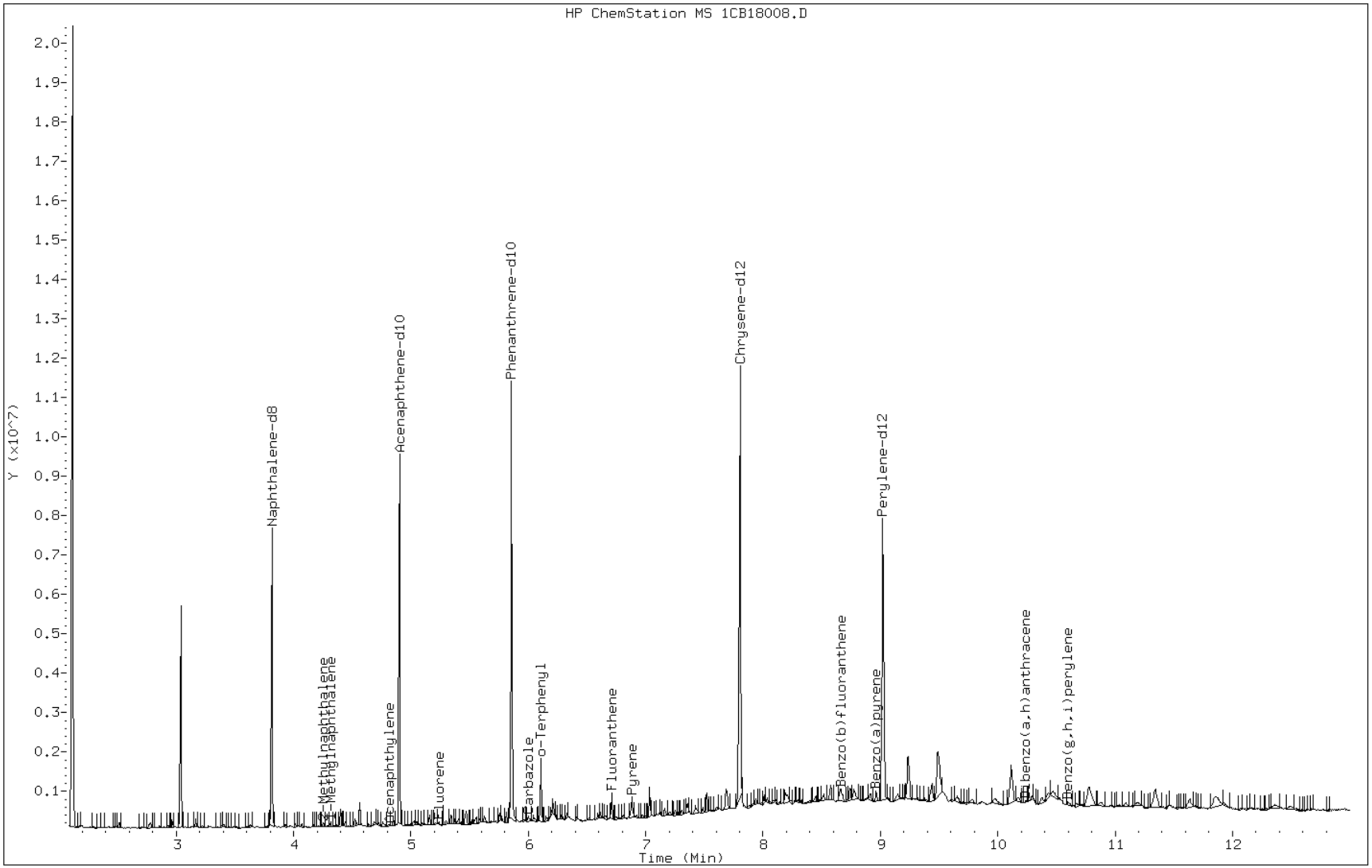
Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS

Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A

Operator: SCC



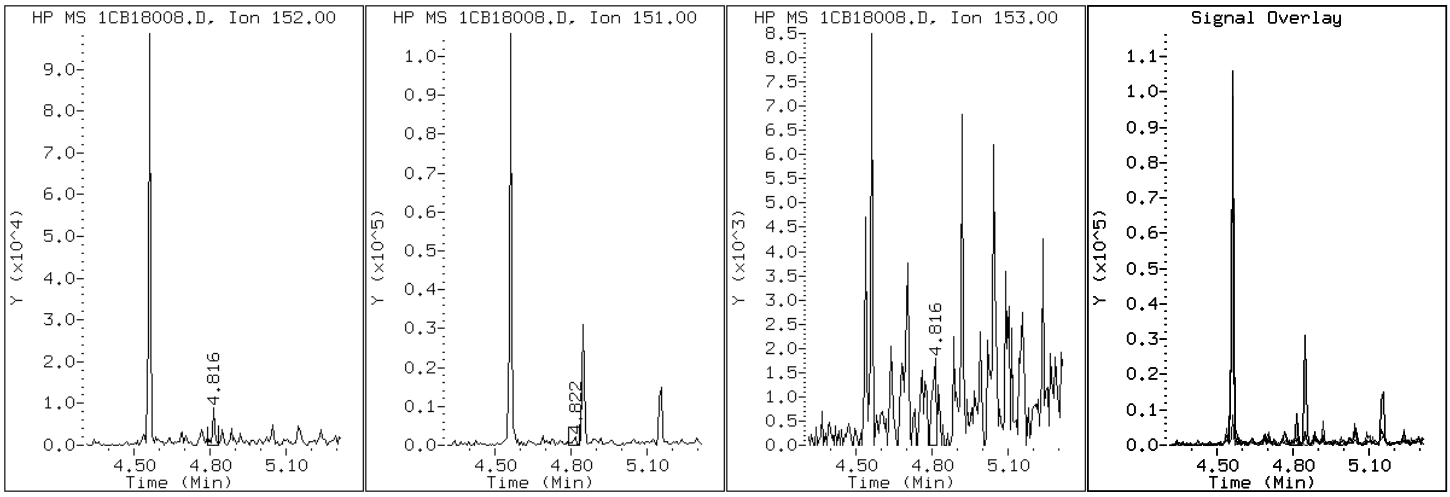
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

5 Acenaphthylene



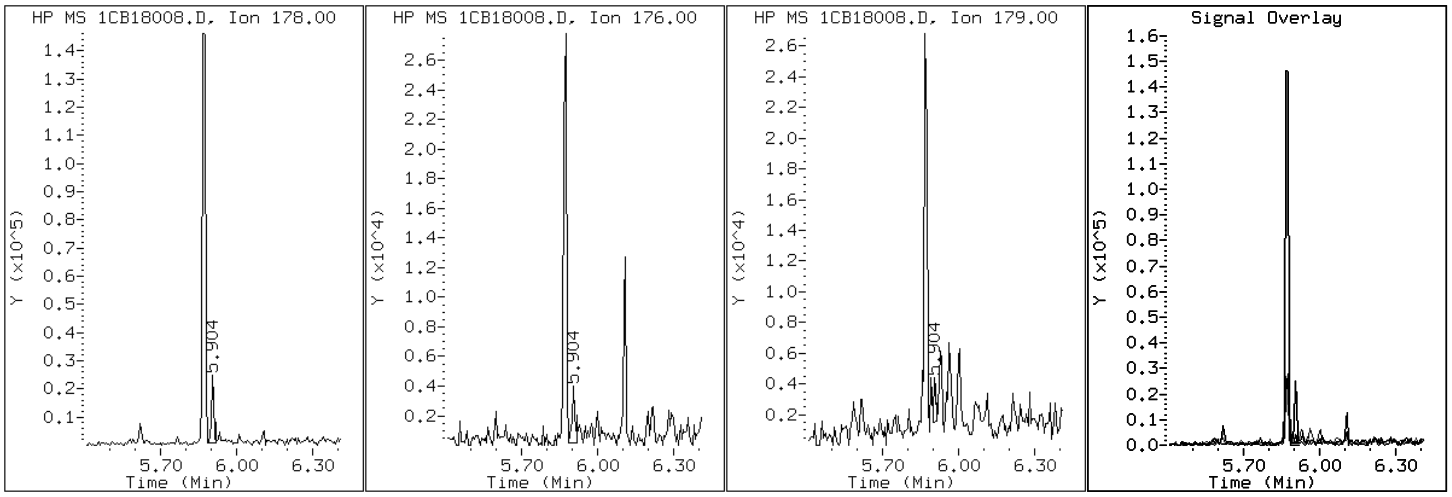
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

12 Anthracene



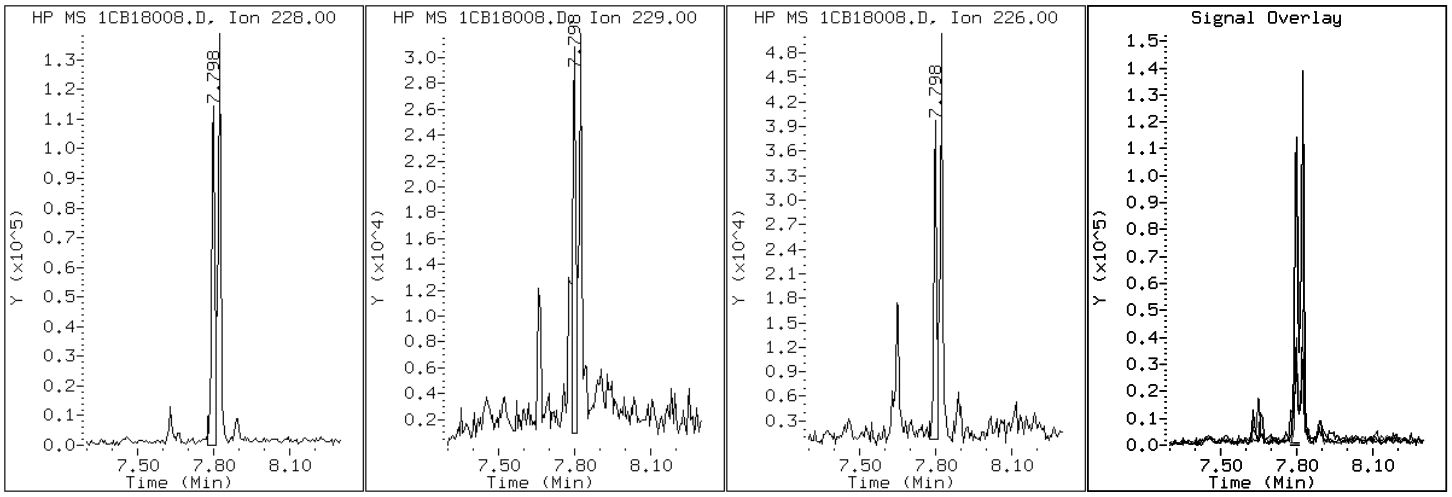
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

17 Benzo(a)anthracene



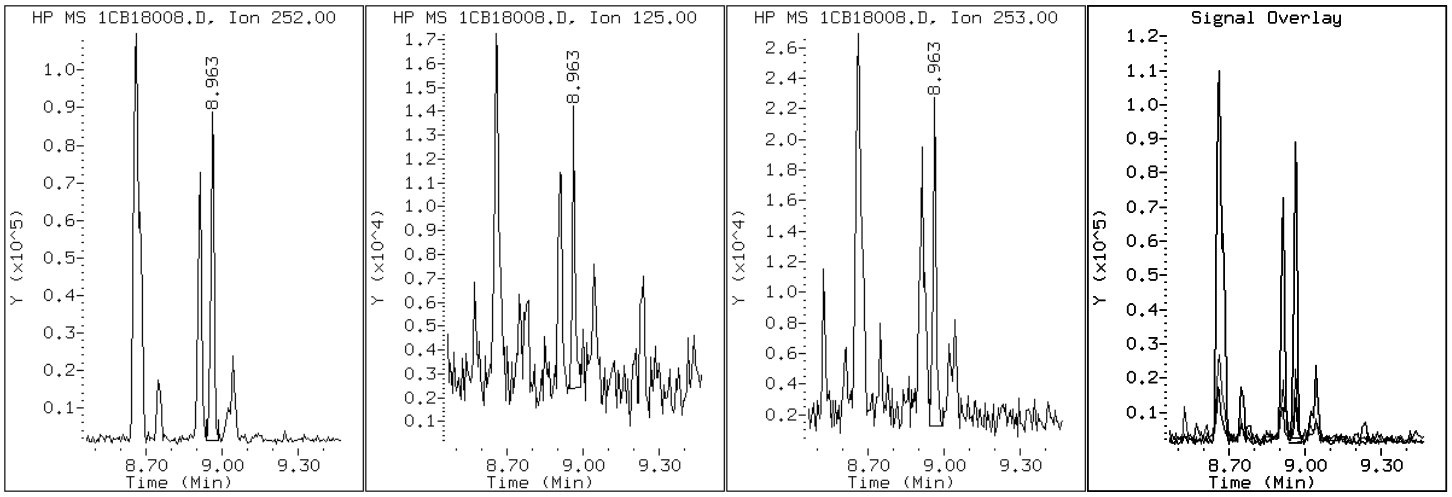
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

22 Benzo(a)pyrene



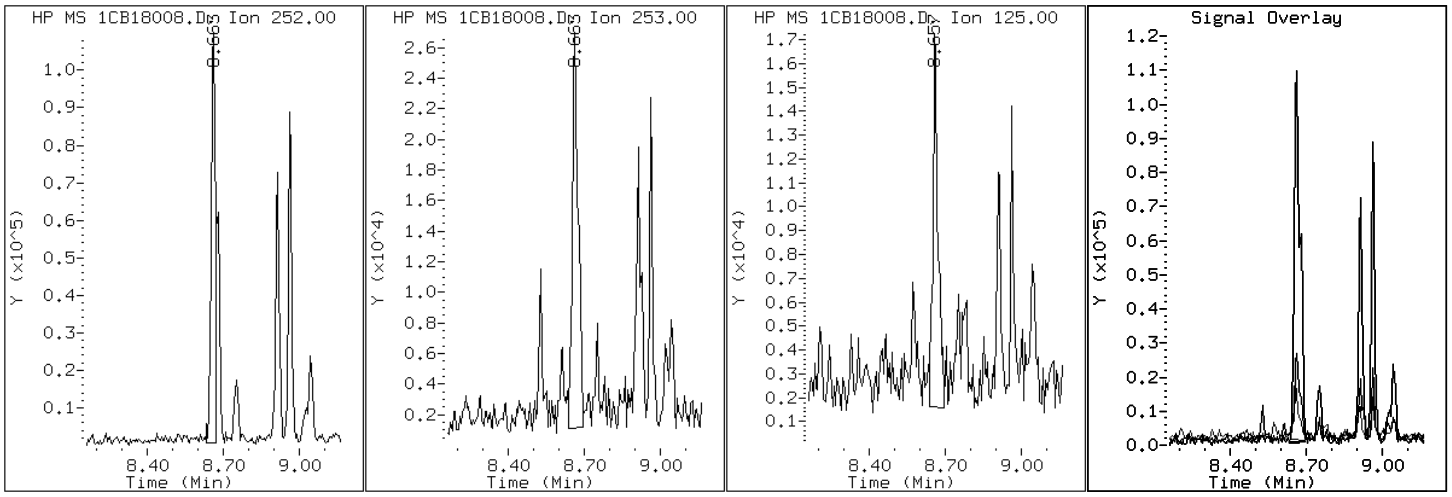
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

20 Benzo(b)fluoranthene



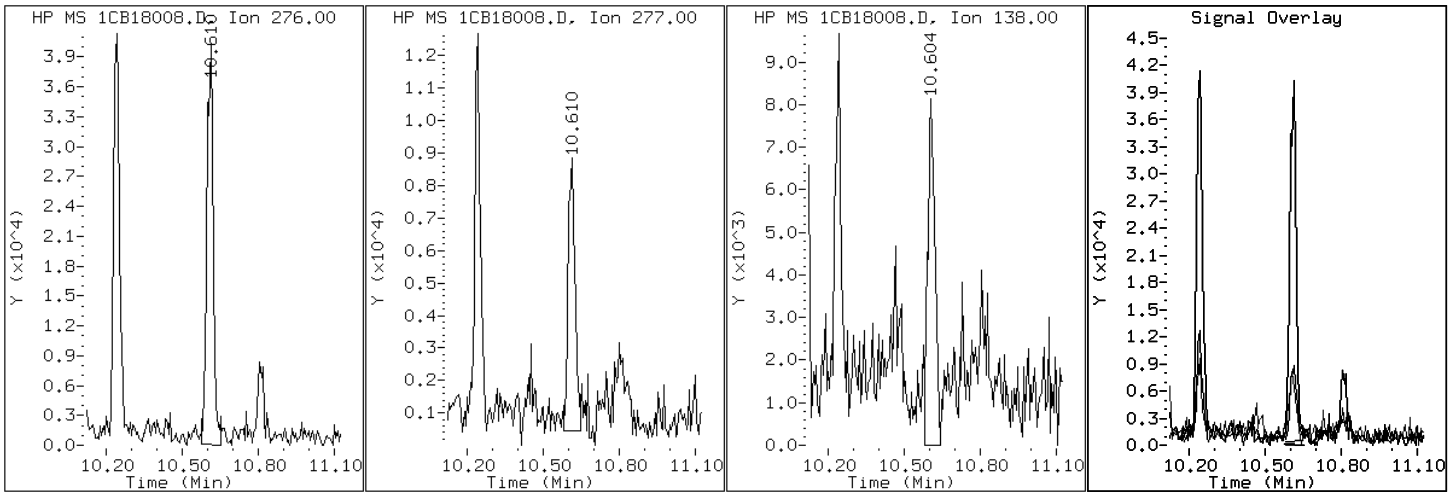
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

26 Benzo(g,h,i)perylene



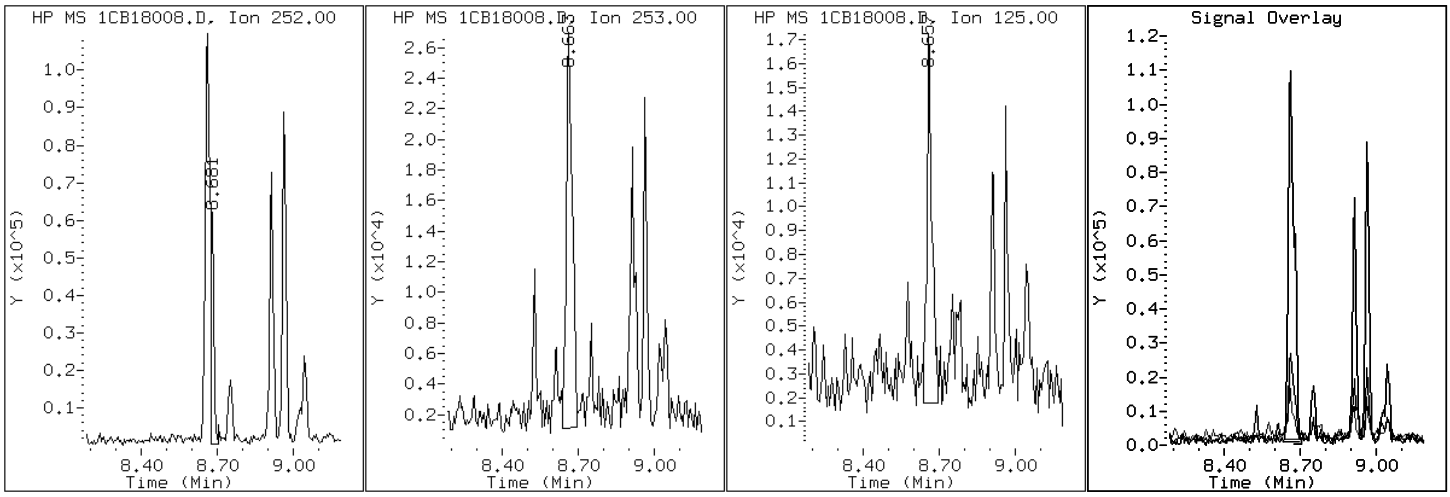
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

21 Benzo(k)fluoranthene



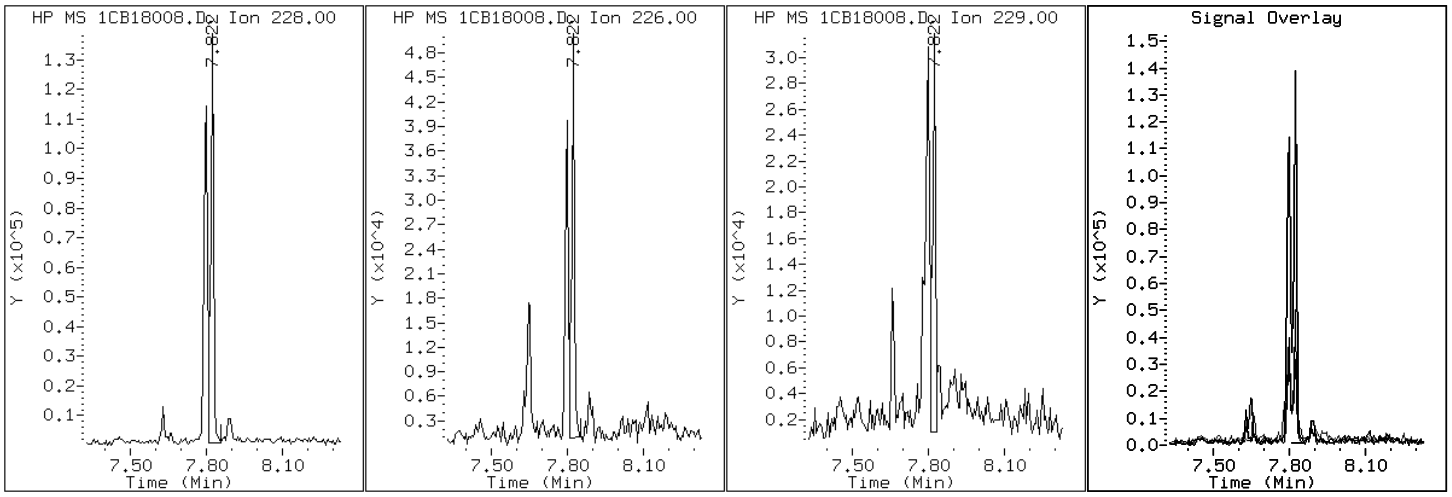
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

19 Chrysene



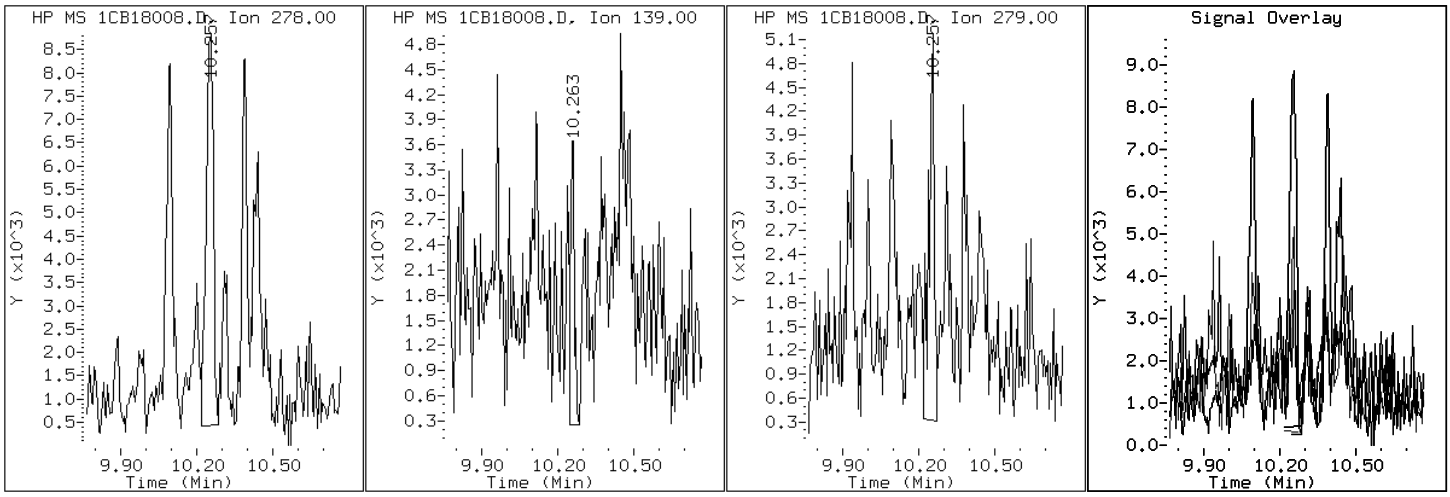
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

25 Dibenzo(a,h)anthracene



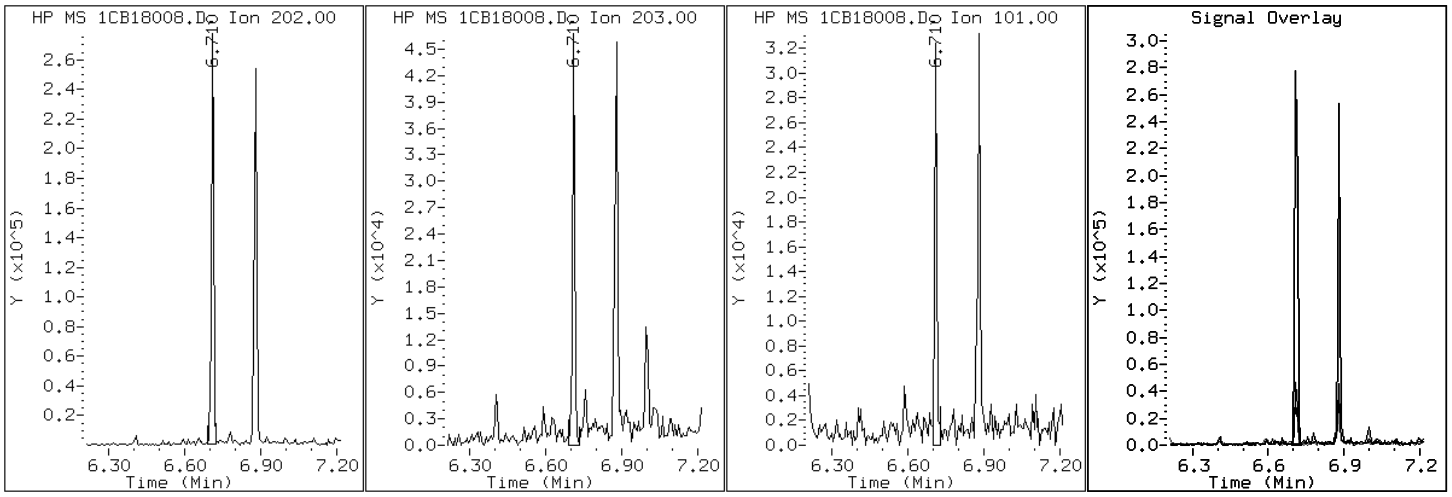
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

15 Fluoranthene



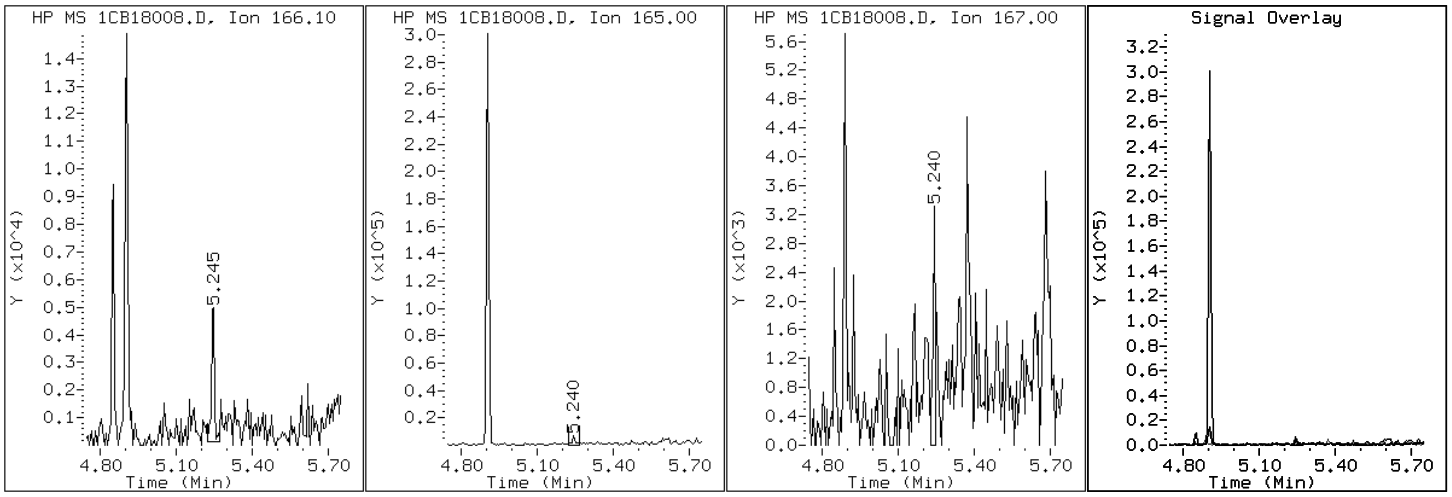
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

9 Fluorene



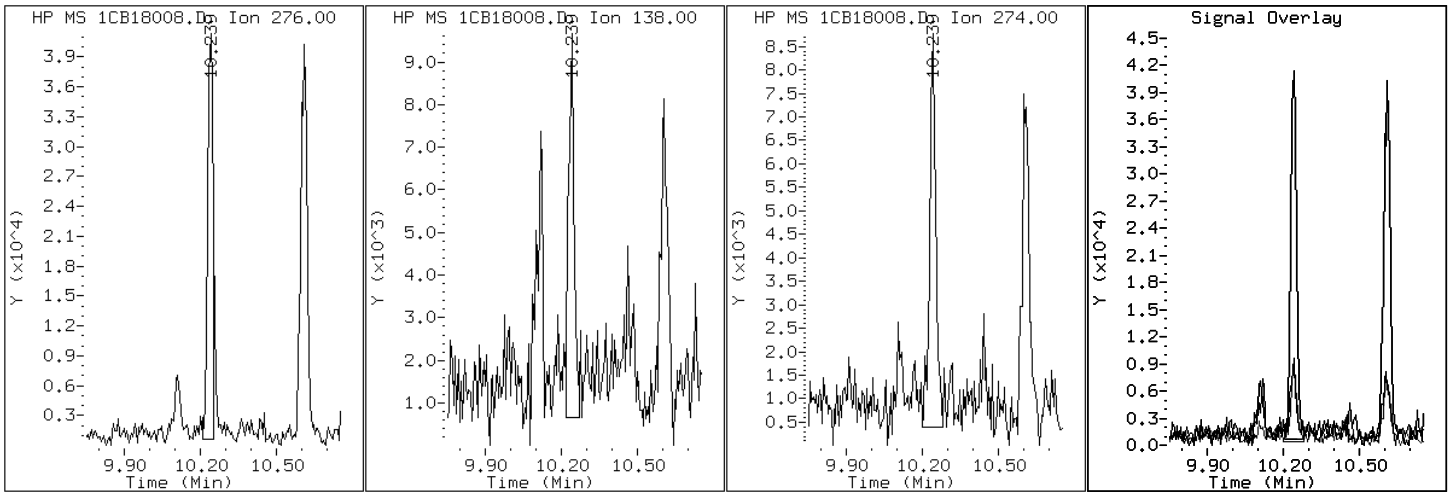
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

24 Indeno(1,2,3-cd)pyrene



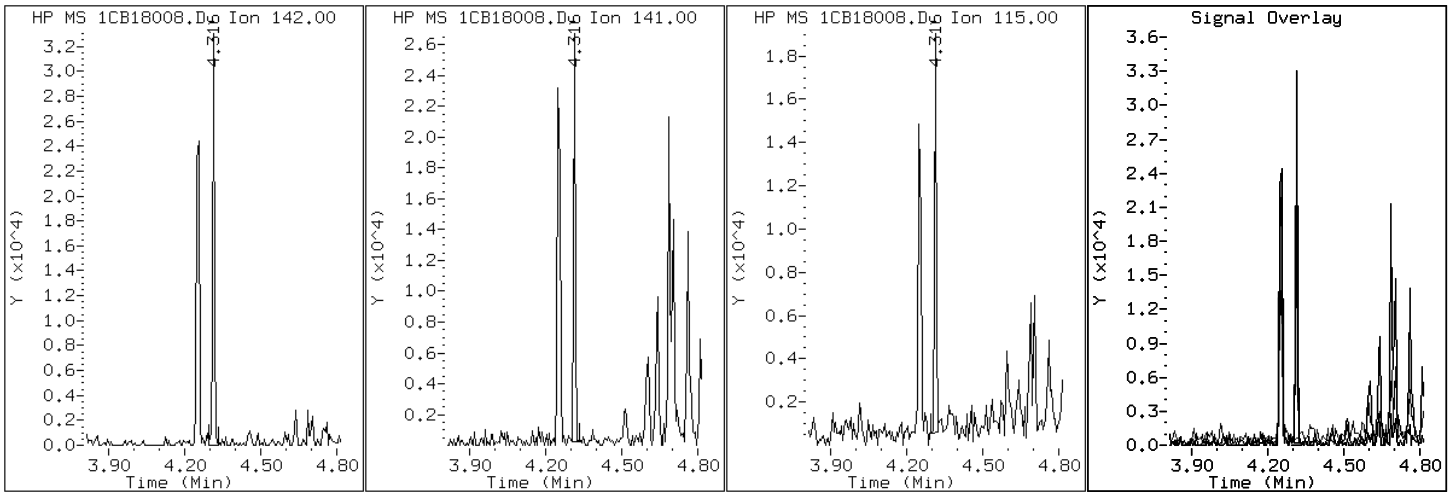
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

4 1-Methylnaphthalene



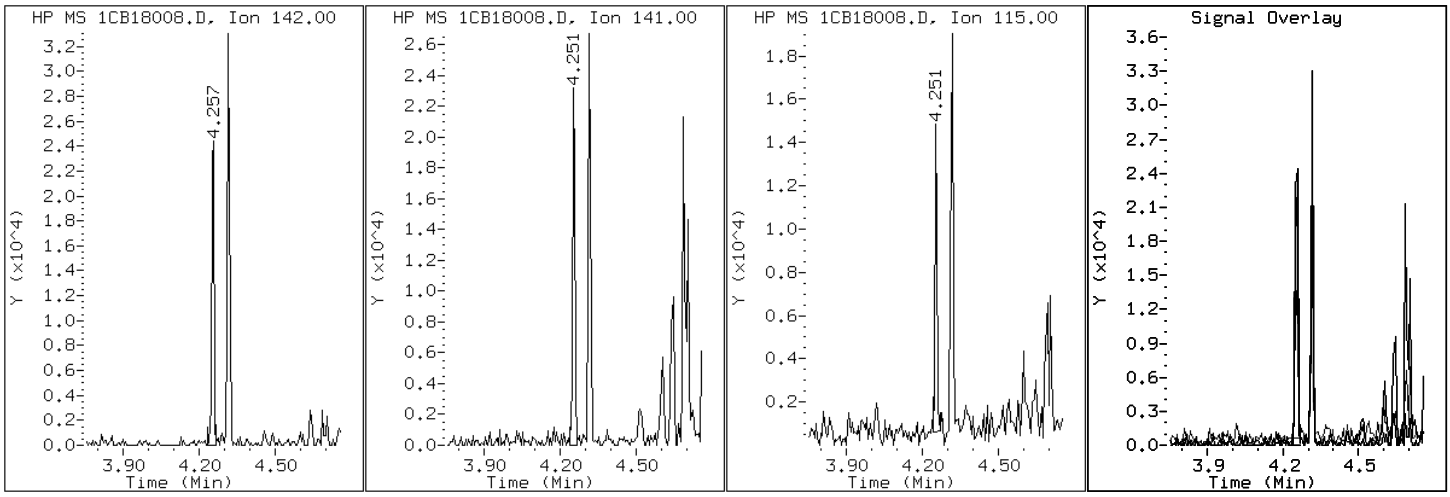
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

3 2-Methylnaphthalene



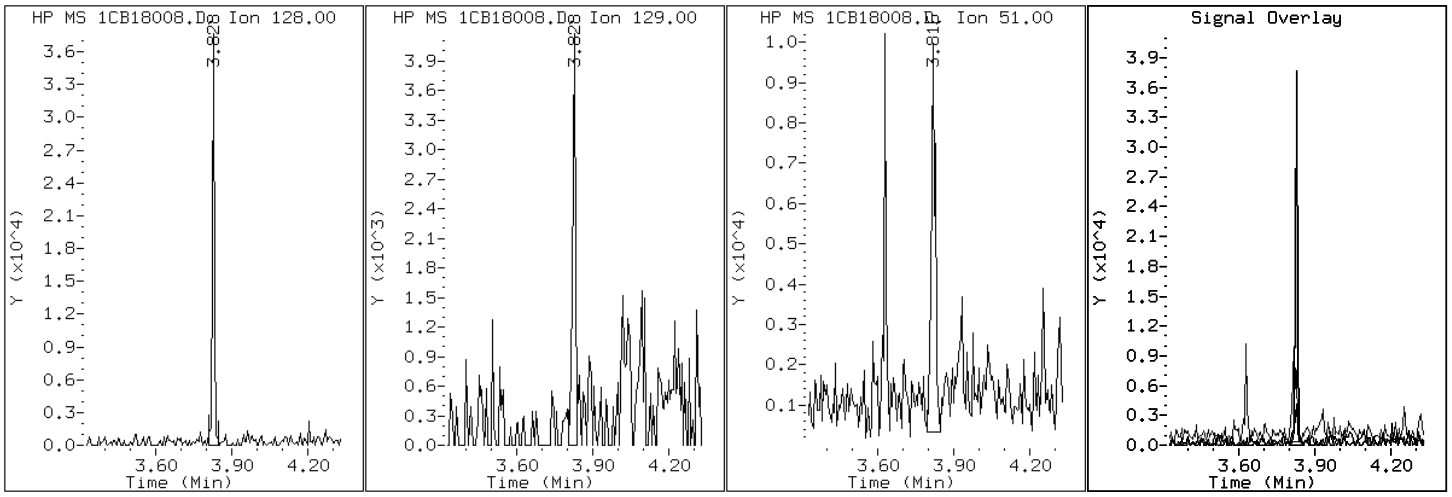
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

2 Naphthalene



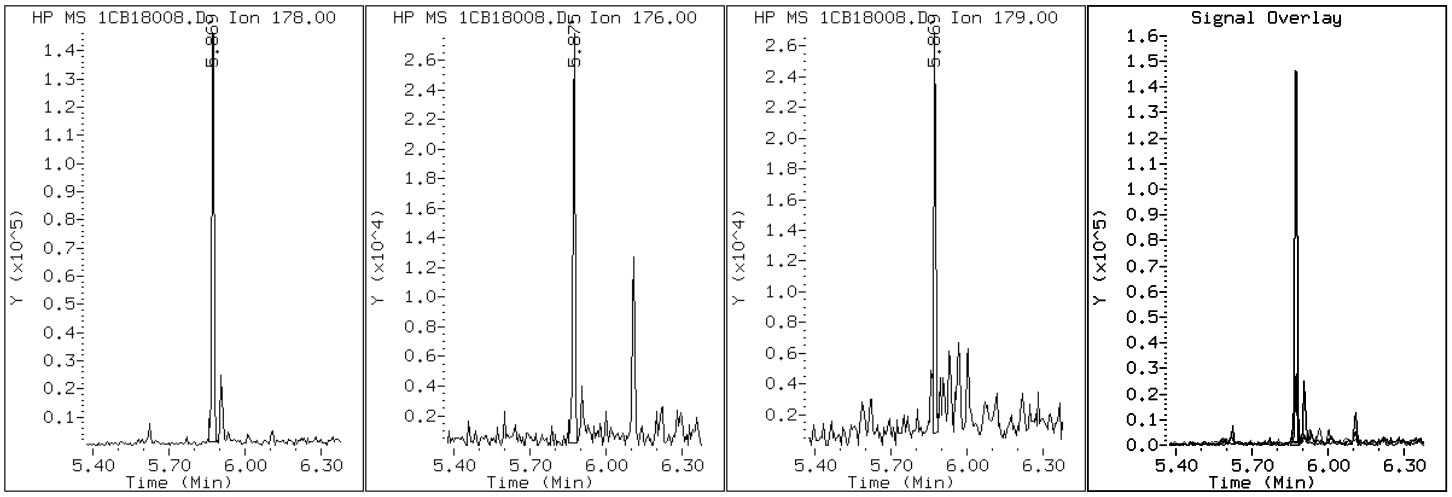
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

11 Phenanthrene



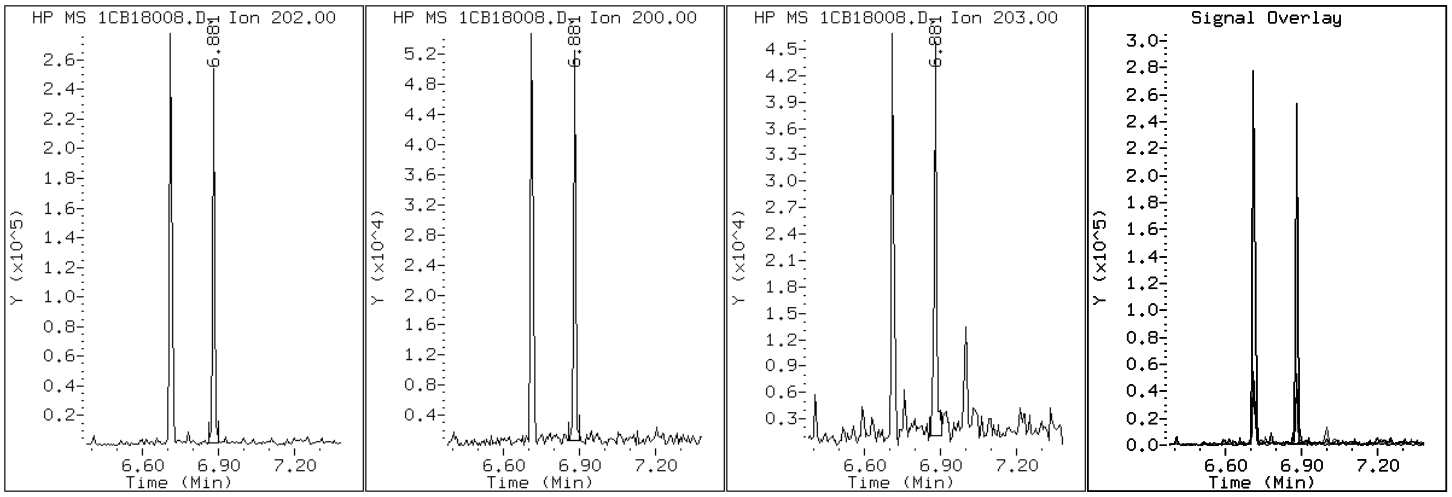
Data File: 1CB18008.D

Date: 18-FEB-2013 15:41

Client ID: CV0748KK-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-17-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB18008.D
Inj. Date and Time: 18-FEB-2013 15:41
Instrument ID: BSMC5973.i
Client ID: CV0748KK-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

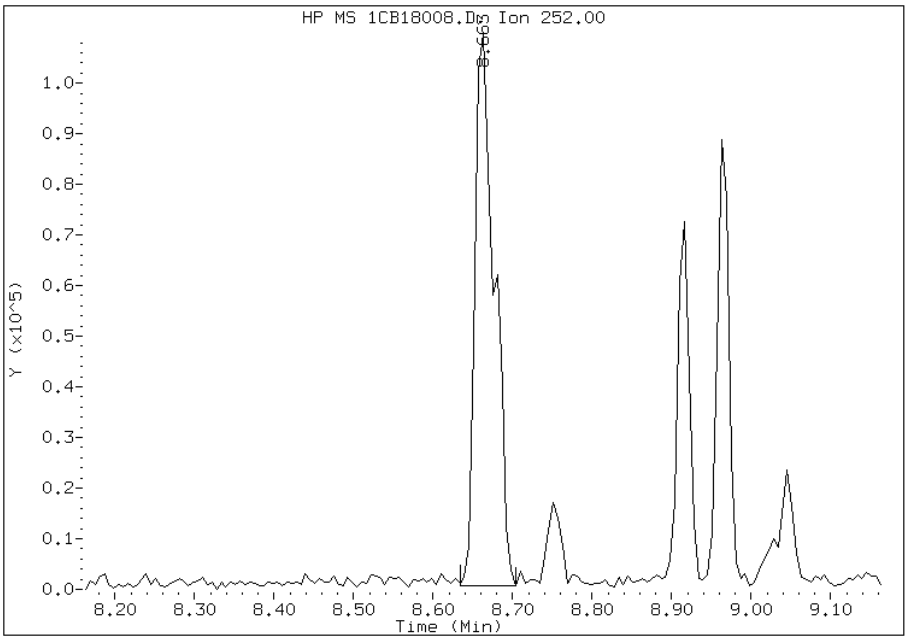
Processing Integration Results

RT: 8.66

Response: 185044

Amount: 3

Conc: 180



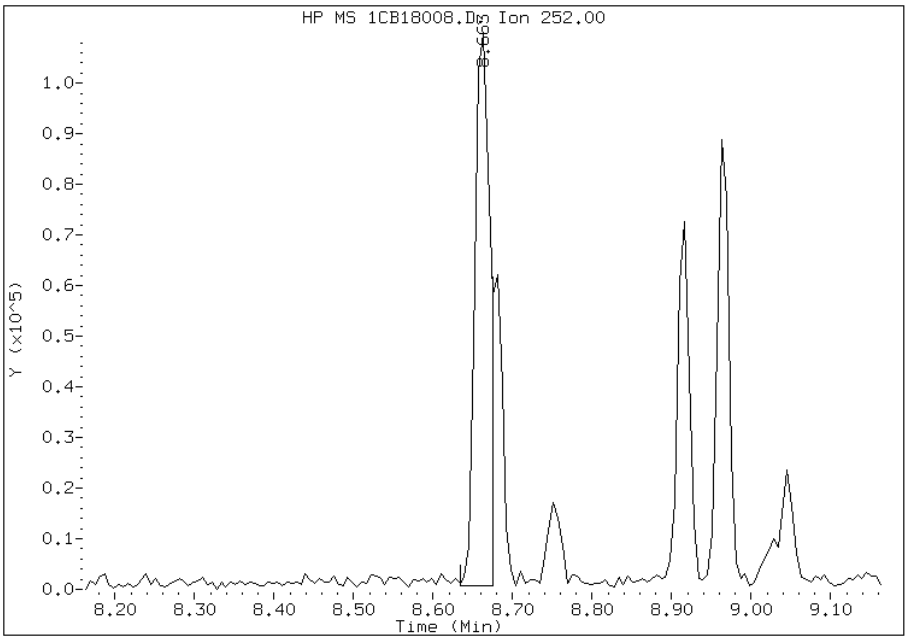
Manual Integration Results

RT: 8.66

Response: 144214

Amount: 2

Conc: 141



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB18008.D
Inj. Date and Time: 18-FEB-2013 15:41
Instrument ID: BSMC5973.i
Client ID: CV0748KK-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

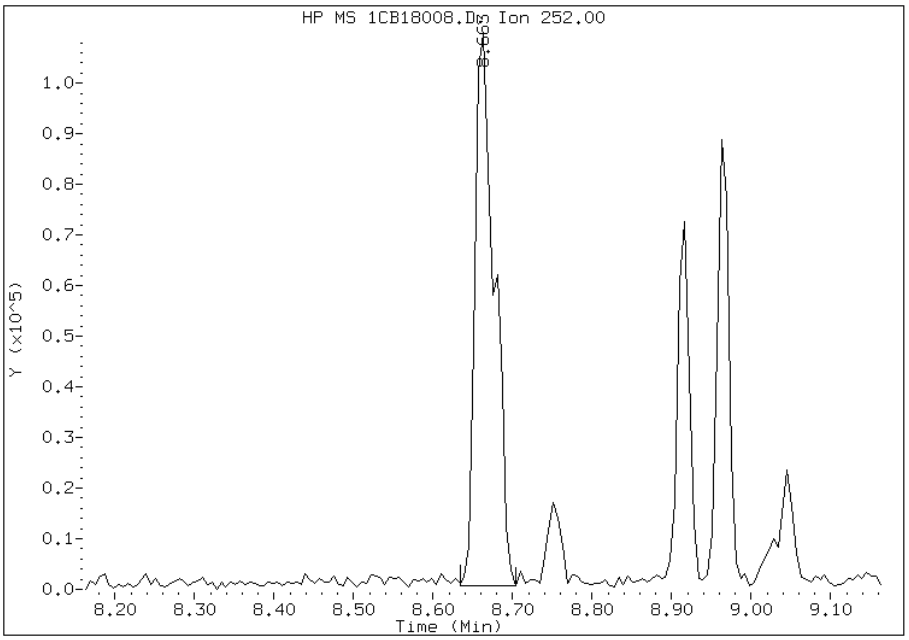
Processing Integration Results

RT: 8.66

Response: 185049

Amount: 2

Conc: 164



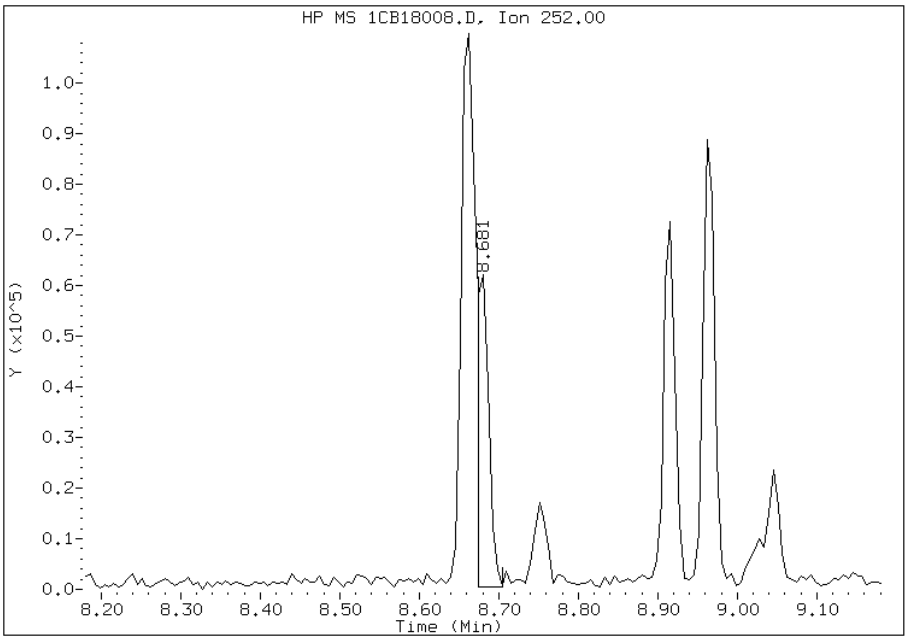
Manual Integration Results

RT: 8.68

Response: 61649

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB18008.D
Inj. Date and Time: 18-FEB-2013 15:41
Instrument ID: BSMC5973.i
Client ID: CV0748KK-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

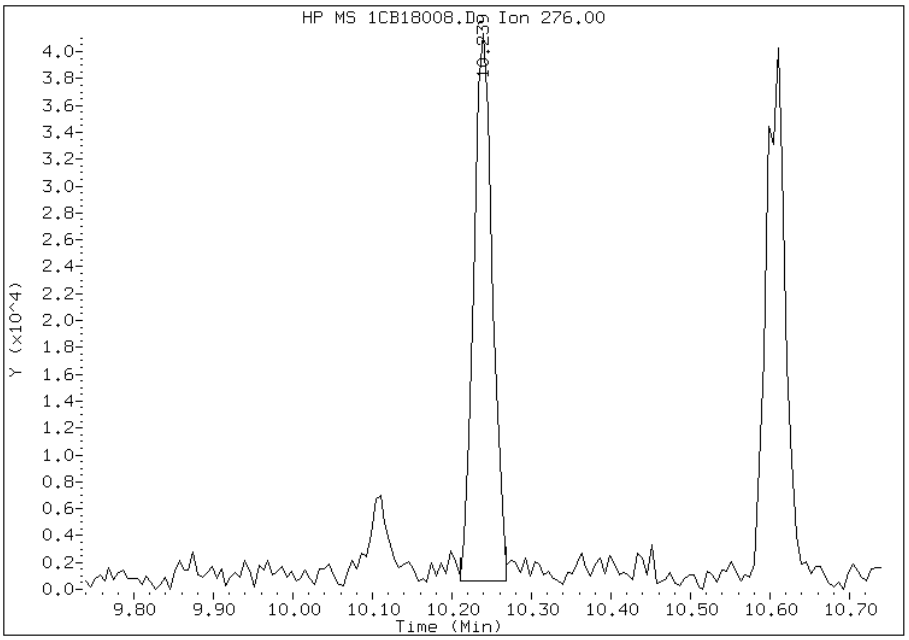
Processing Integration Results

RT: 10.24

Response: 66178

Amount: 1

Conc: 71



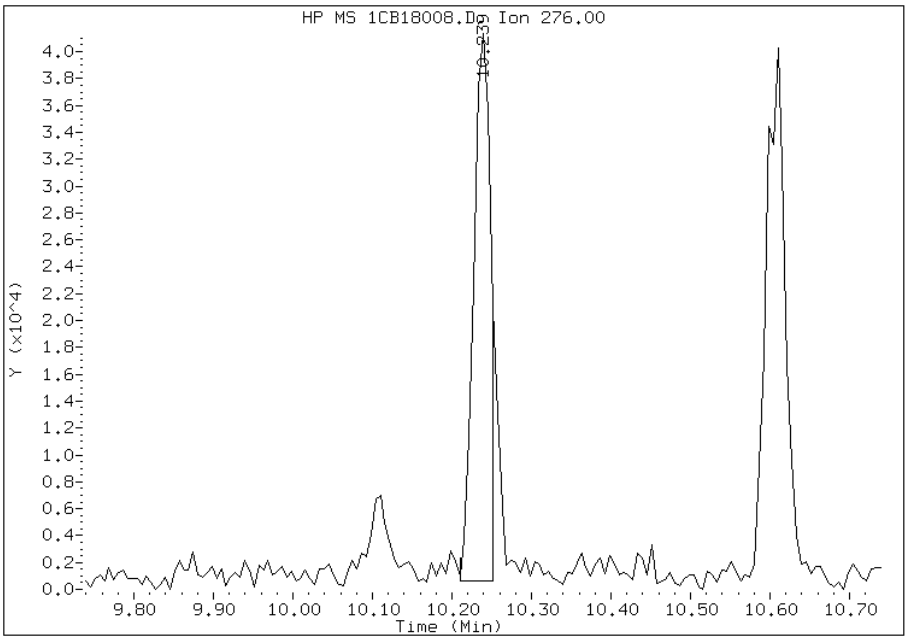
Manual Integration Results

RT: 10.24

Response: 59432

Amount: 1

Conc: 63



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: CV0748LL-CS | Lab Sample ID: 680-87279-18

Matrix: Solid | Lab File ID: 1CB18009.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:48

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.45(g) | Date Analyzed: 02/18/2013 16:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 7.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	18	J	42	5.2
120-12-7	Anthracene	18		8.8	4.4
56-55-3	Benzo[a]anthracene	120		8.4	4.1
50-32-8	Benzo[a]pyrene	120		11	5.5
205-99-2	Benzo[b]fluoranthene	190		13	6.4
191-24-2	Benzo[g,h,i]perylene	100		21	4.6
207-08-9	Benzo[k]fluoranthene	91		8.4	3.8
218-01-9	Chrysene	130		9.4	4.7
53-70-3	Dibenz(a,h)anthracene	28		21	4.3
206-44-0	Fluoranthene	210		21	4.2
86-73-7	Fluorene	9.4	J	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	79		21	7.4
90-12-0	1-Methylnaphthalene	37	J	42	4.6
91-57-6	2-Methylnaphthalene	43		42	7.4
91-20-3	Naphthalene	48		42	4.6
85-01-8	Phenanthrene	96		8.4	4.1
129-00-0	Pyrene	200		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18009.D
Lab Smp Id: 680-87279-A-18-A Client Smp ID: CV0748LL-CS
Inj Date : 18-FEB-2013 16:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87279-A-18-A
Misc Info : 680-87279-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\a-bFASTPAHi-m.m
Meth Date : 18-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.450	Weight Extracted
M	7.415	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	1855812	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1432433	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2636128	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	306038	7.92325	553.9054
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2786555	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2647667	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	33797	0.68726	48.0453
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	19656	0.61471	42.9739
4 1-Methylnaphthalene	142	4.316	4.315	(1.131)	15423	0.53034	37.0751
5 Acenaphthylene	152	4.816	4.815	(0.982)	14568	0.25563	17.8709
9 Fluorene	166	5.239	5.245	(1.068)	6148	0.13400	9.3677
11 Phenanthrene	178	5.868	5.874	(1.002)	107687	1.36856	95.6740
12 Anthracene	178	5.904	5.909	(1.008)	17795	0.25101	17.5476
13 Carbazole	167	6.015	6.015	(1.027)	16262	0.26408	18.4614(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.710	6.715	(1.146)	227742	2.96201	207.0703
16 Pyrene	202	6.880	6.880	(0.882)	209640	2.82591	197.5562
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	137347	1.78737	124.9529
19 Chrysene	228	7.821	7.827	(1.002)	150839	1.90034	132.8503
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	178538	2.75046	192.2811(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.961)	92590	1.29475	90.5147(MH)
22 Benzo(a)pyrene	252	8.962	8.968	(0.993)	104726	1.69549	118.5294
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.250	(1.135)	67027	1.12980	78.9830(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.268	(1.136)	22593	0.40384	28.2317
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	86721	1.43902	100.6004

QC Flag Legend

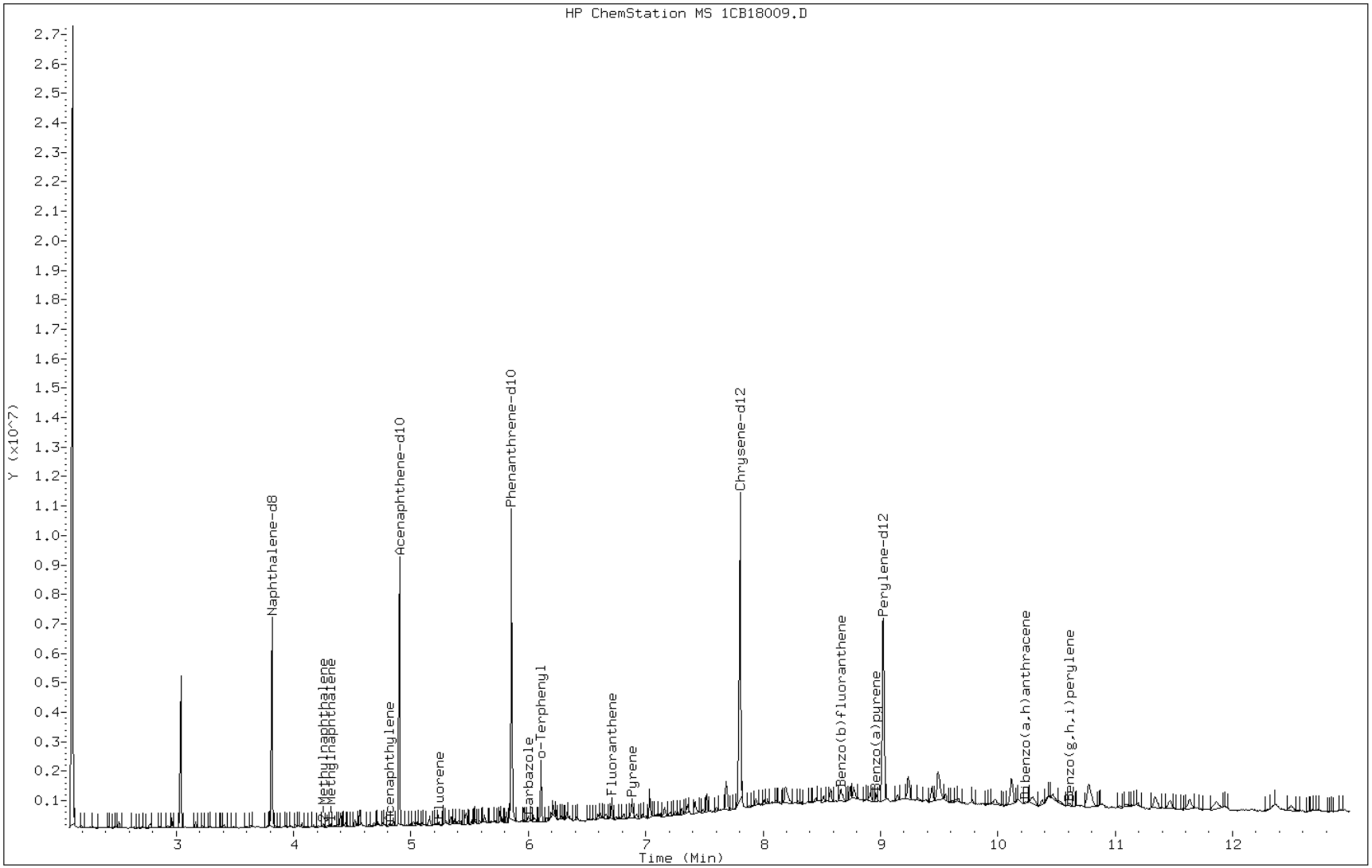
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC



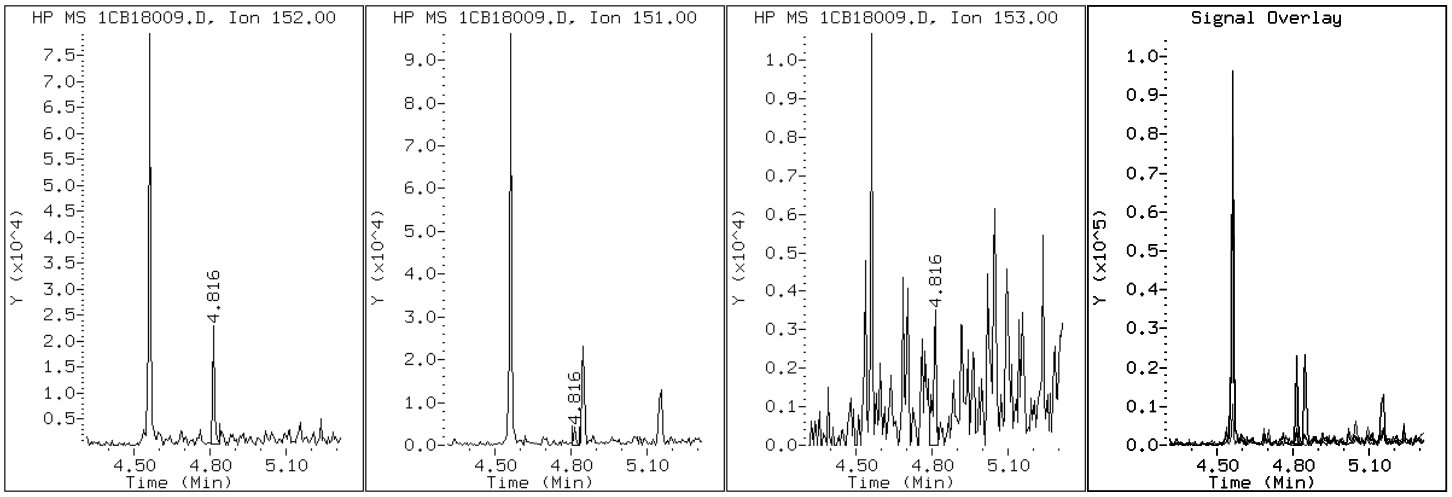
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

5 Acenaphthylene



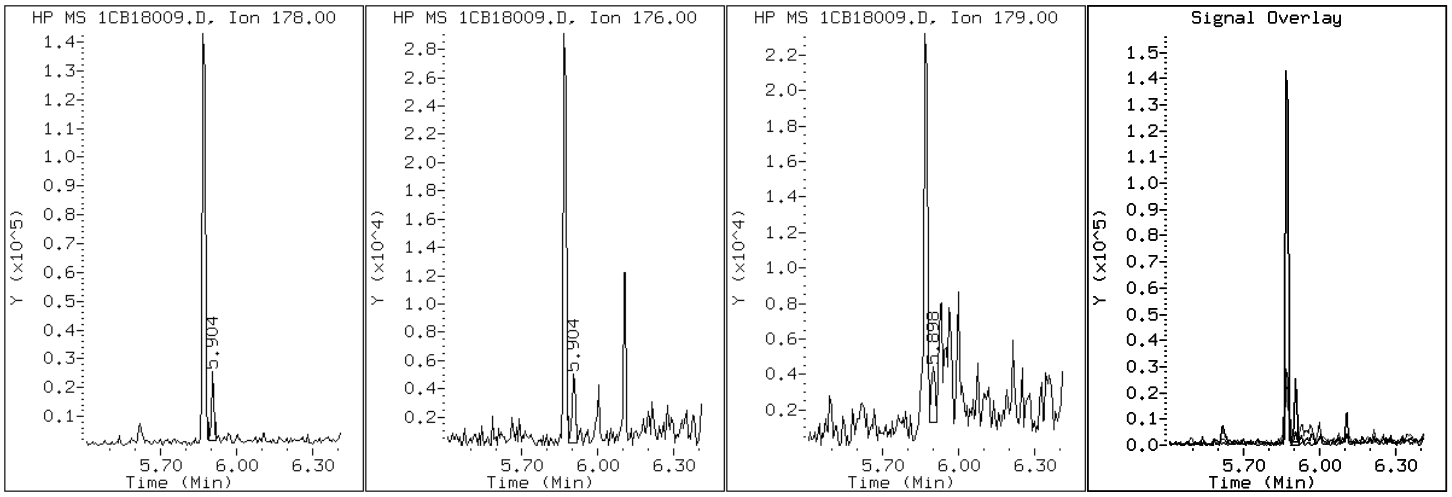
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

12 Anthracene



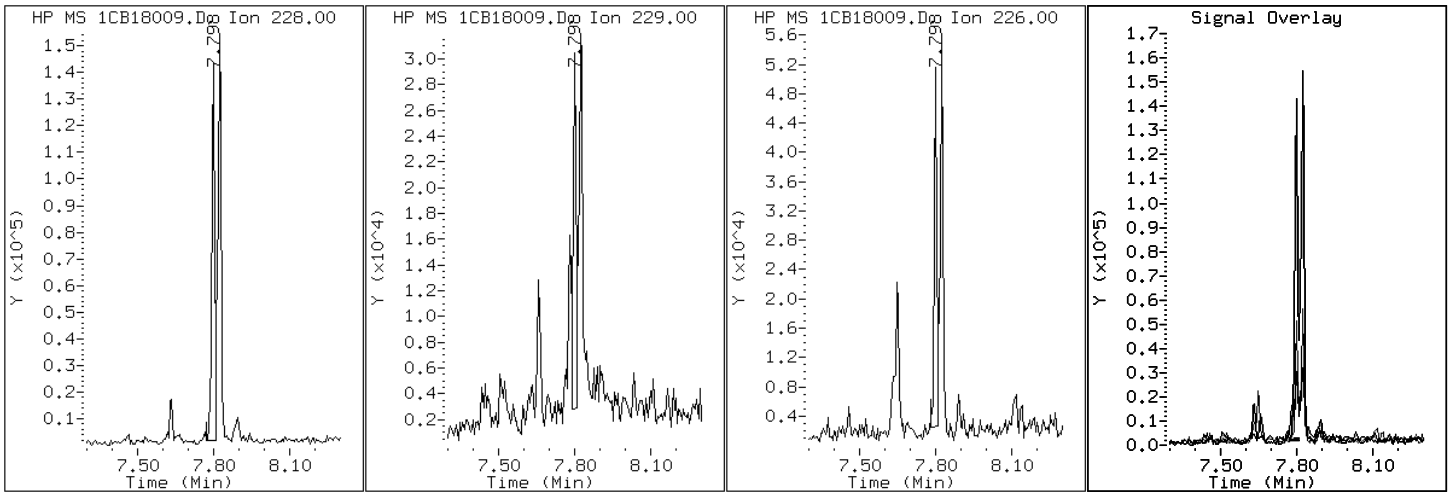
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

17 Benzo(a)anthracene



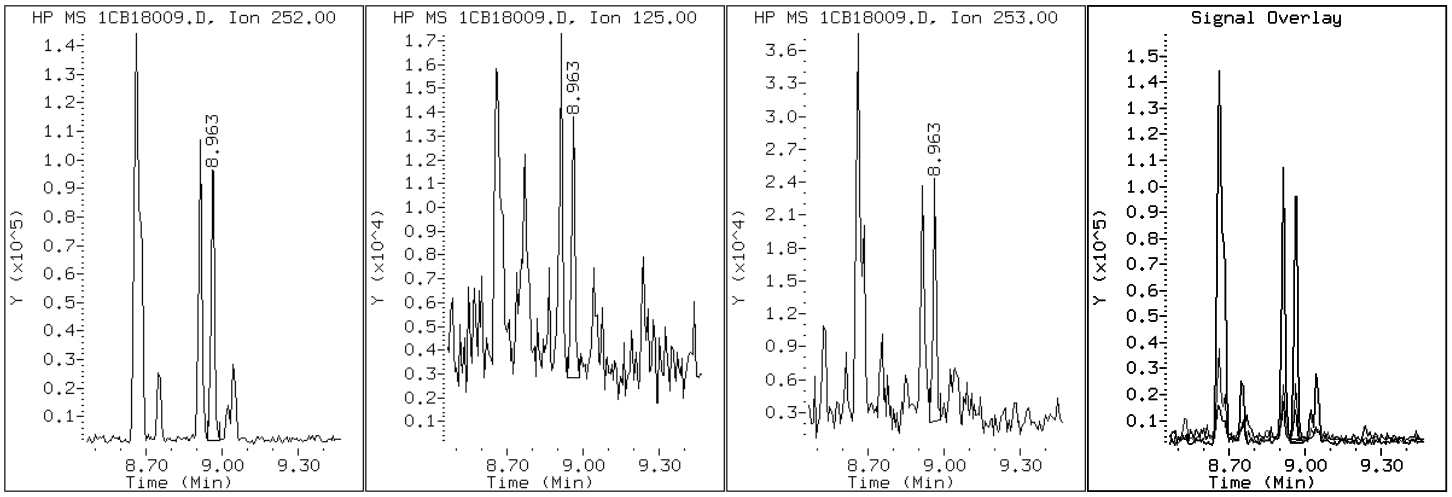
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

22 Benzo(a)pyrene



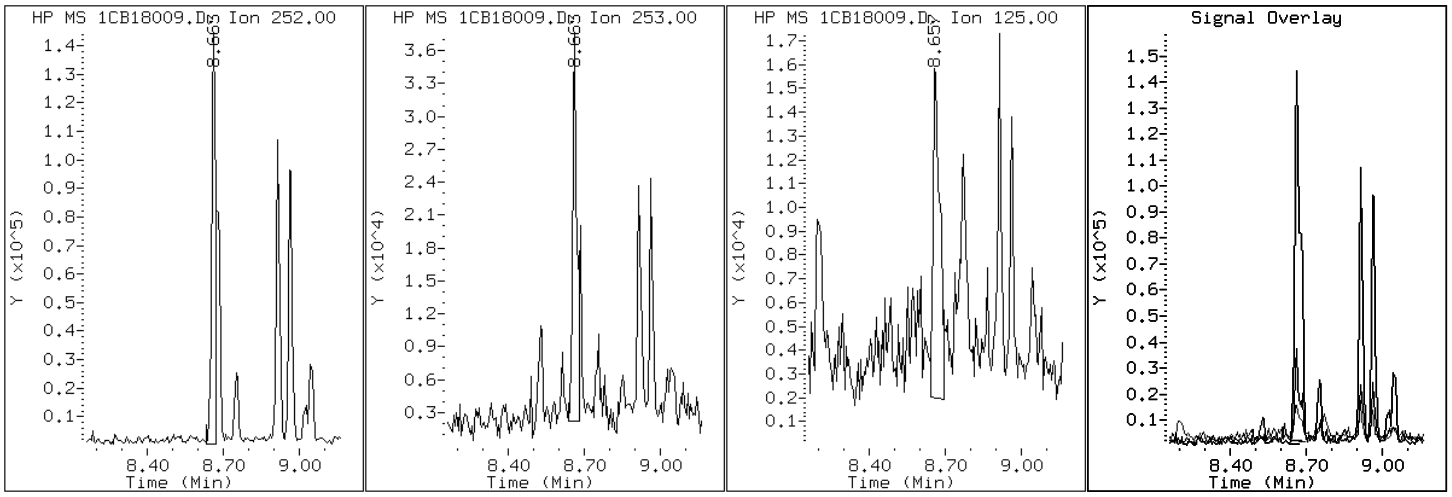
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

20 Benzo(b)fluoranthene



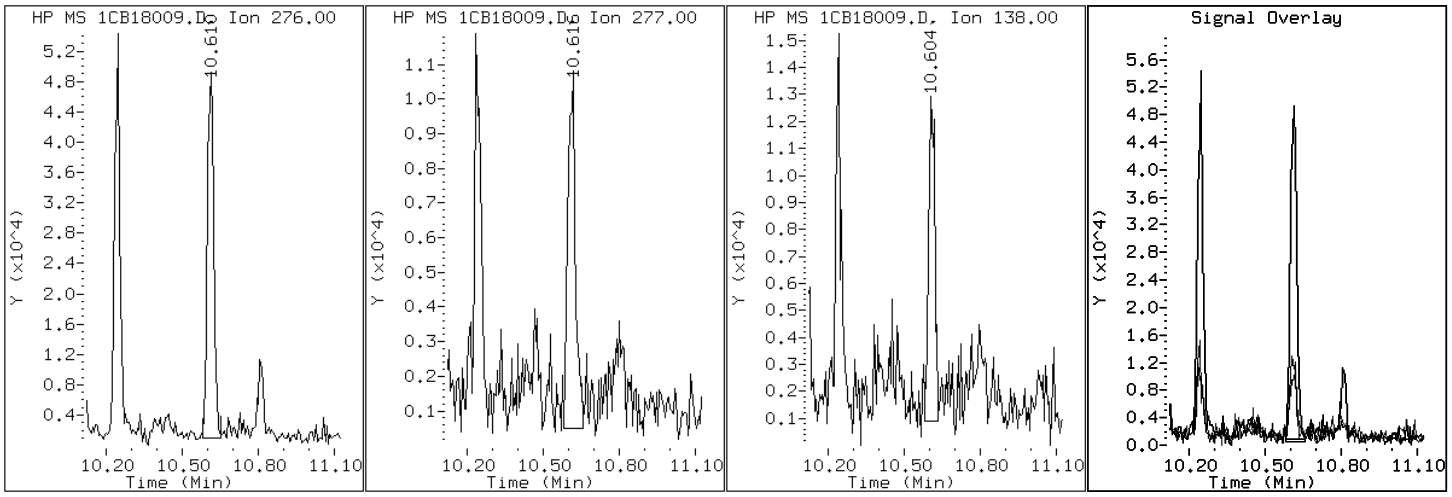
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

26 Benzo(g,h,i)perylene



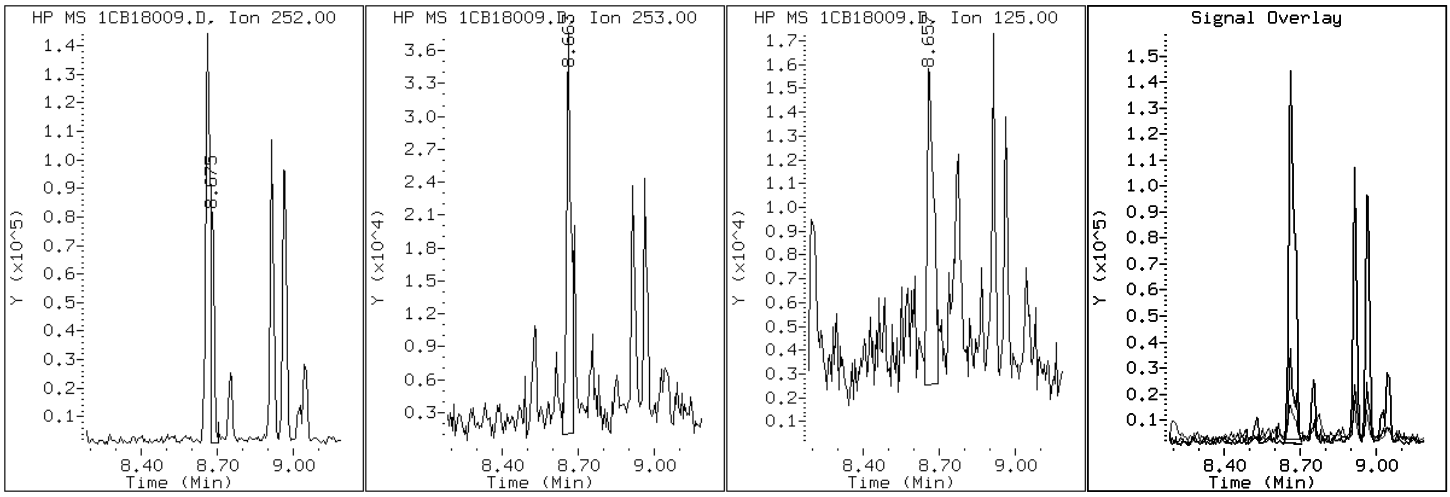
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

21 Benzo(k)fluoranthene



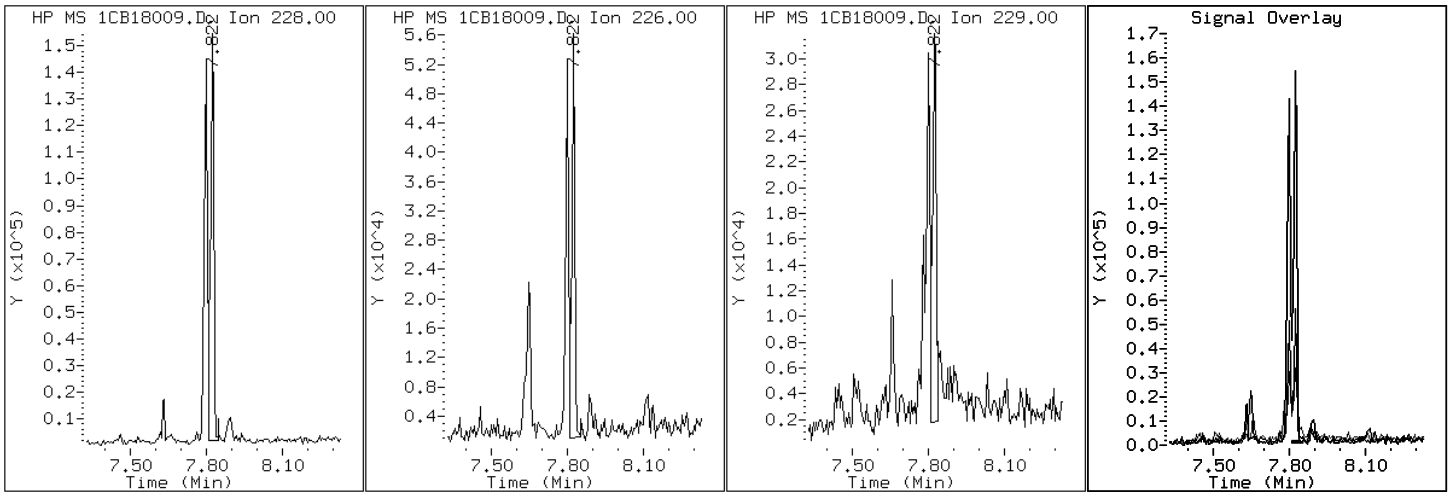
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

19 Chrysene



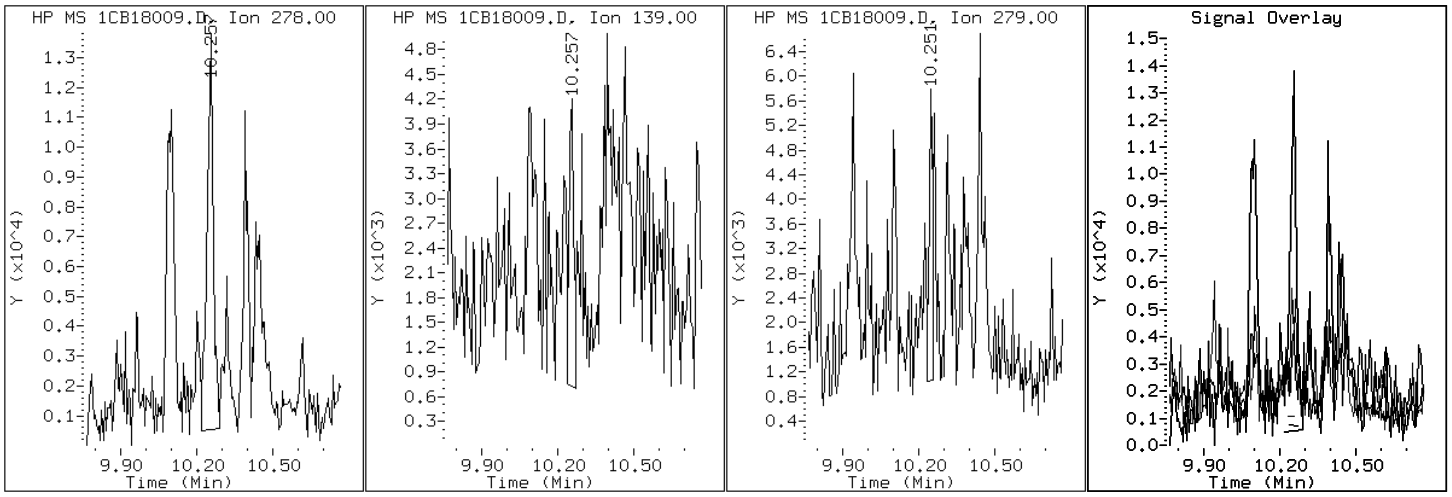
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

25 Dibenzo(a,h)anthracene



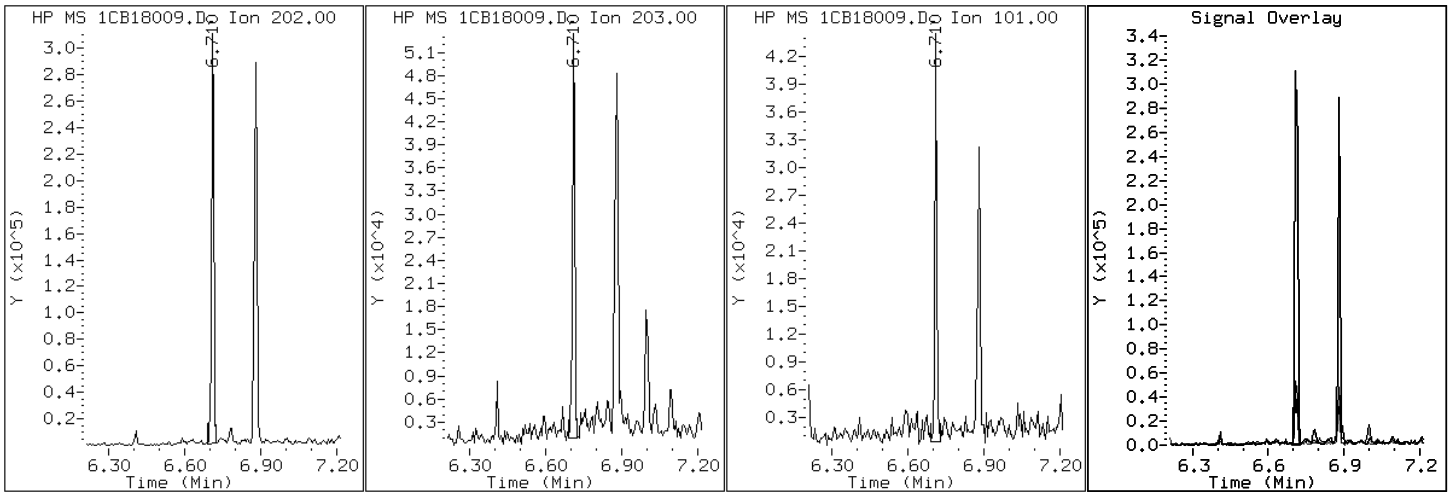
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

15 Fluoranthene



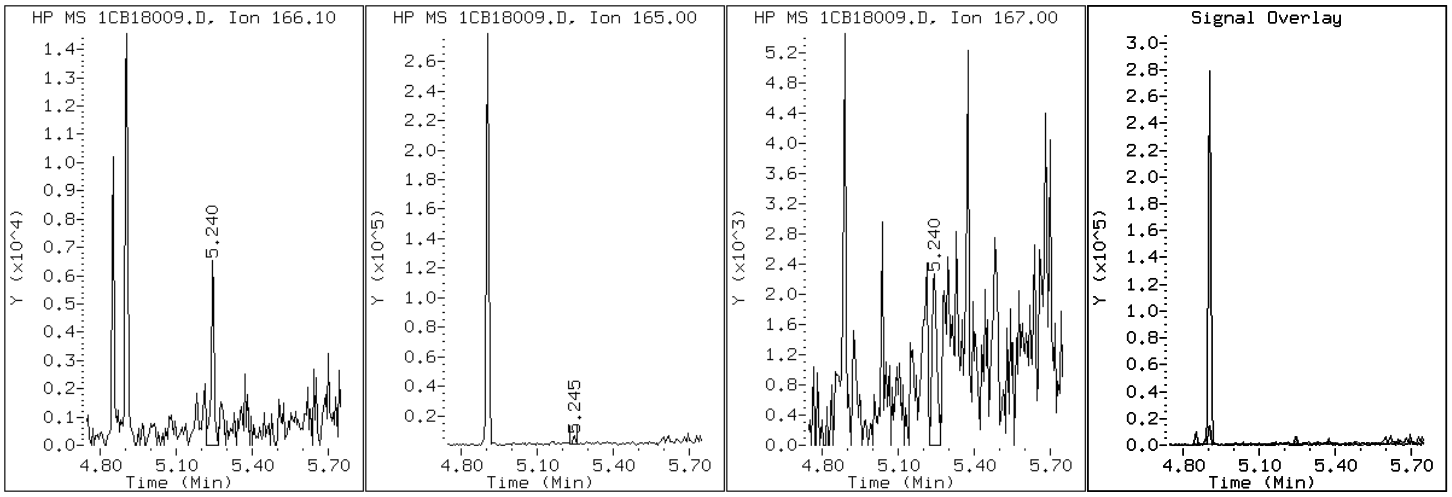
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

9 Fluorene



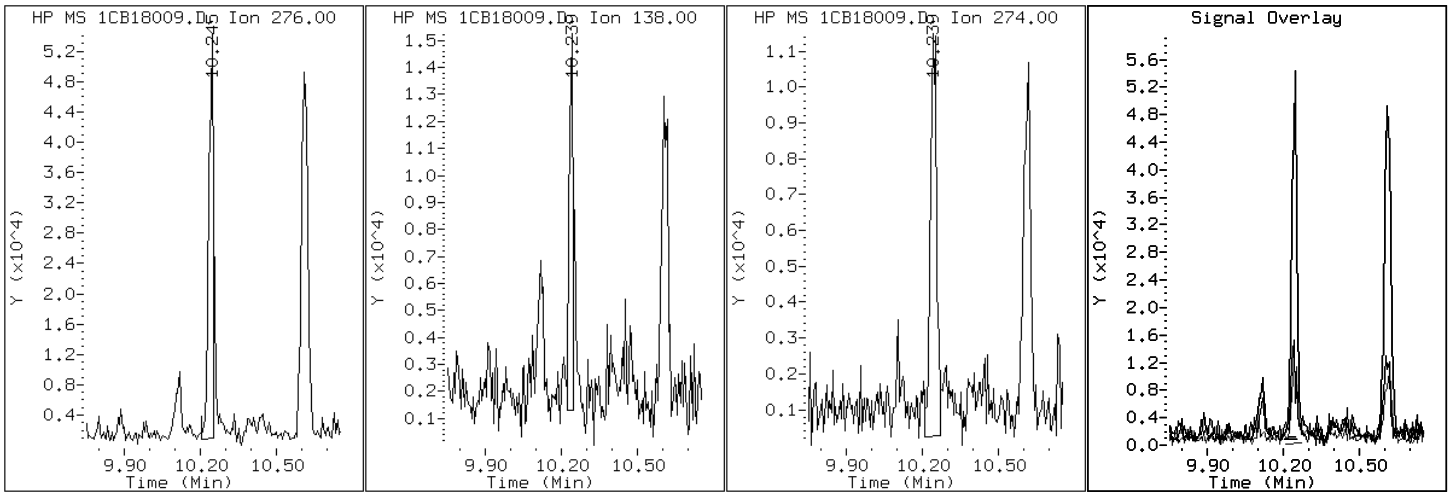
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

24 Indeno(1,2,3-cd)pyrene



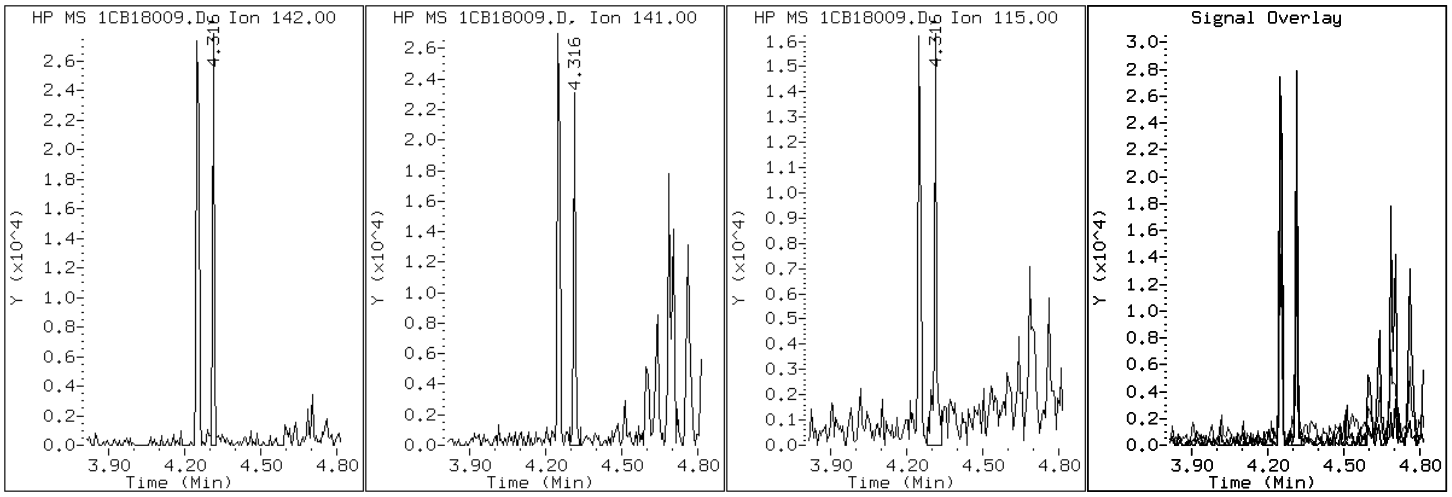
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

4 1-Methylnaphthalene



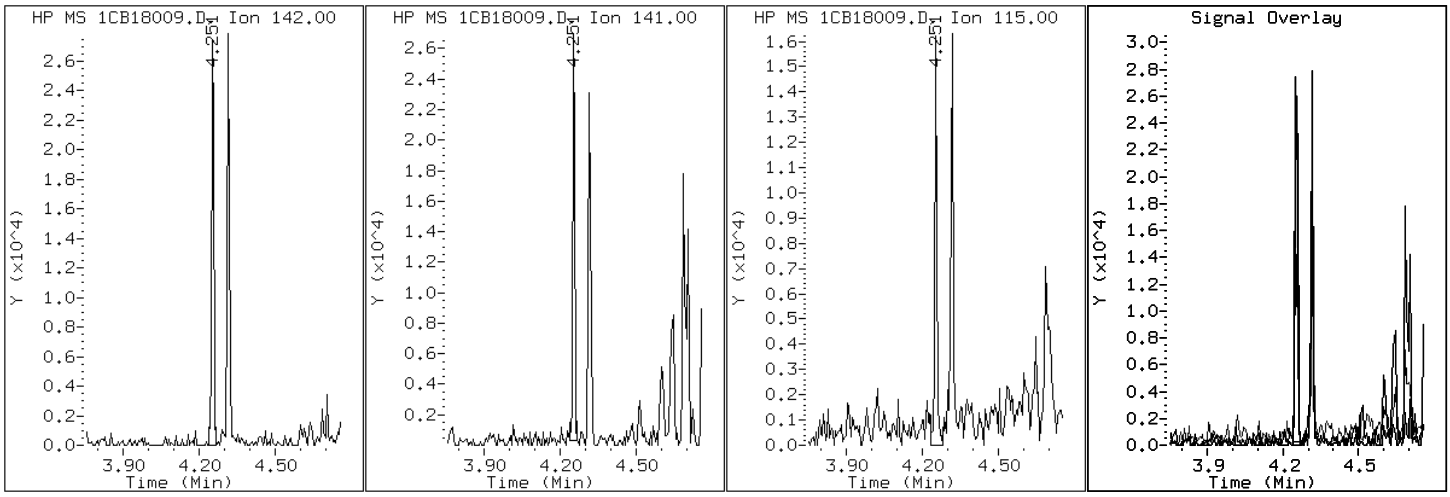
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

3 2-Methylnaphthalene



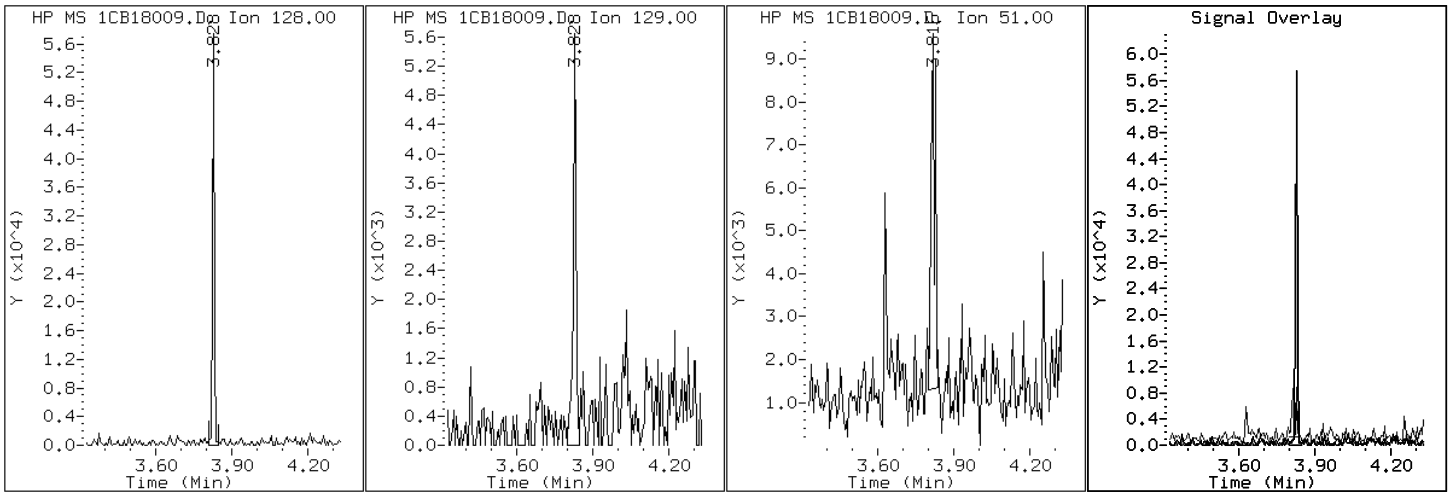
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

2 Naphthalene



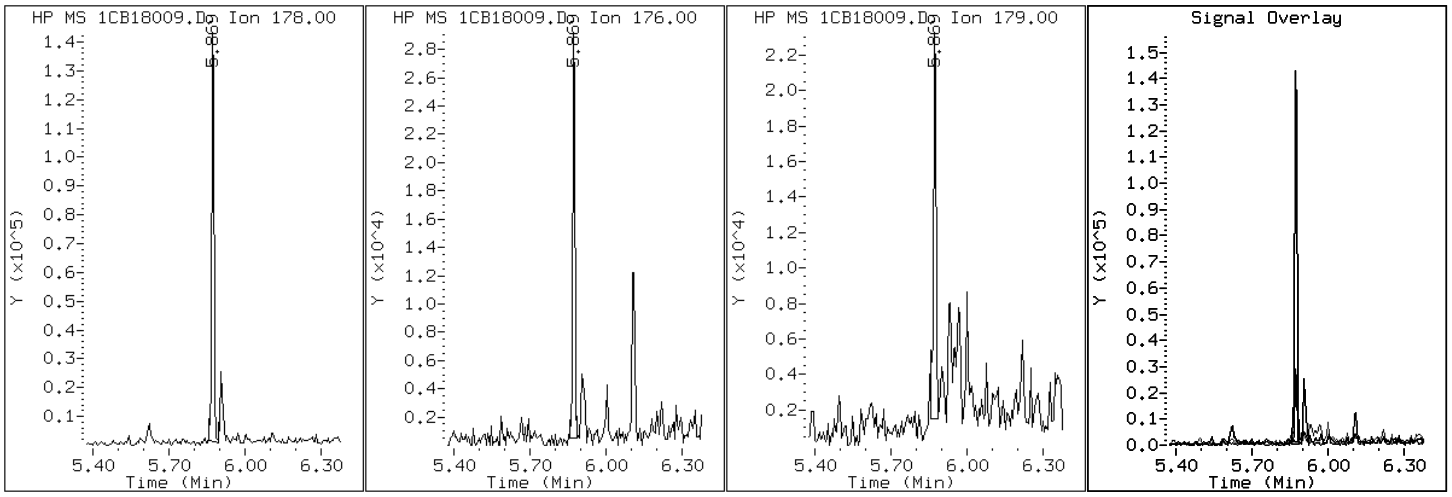
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

11 Phenanthrene



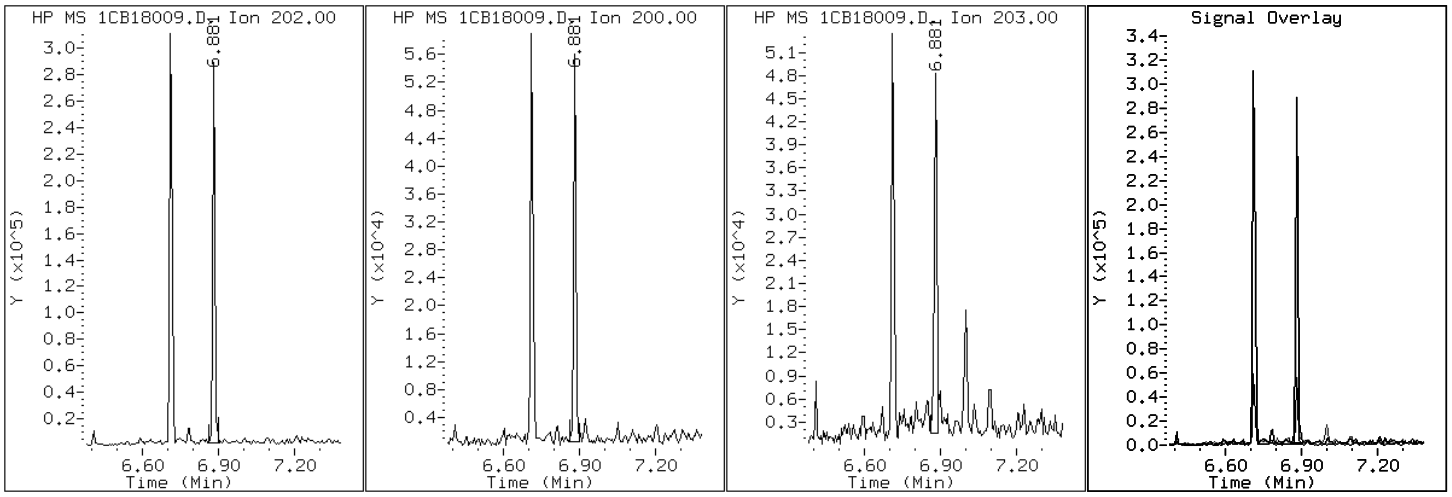
Data File: 1CB18009.D

Date: 18-FEB-2013 16:00

Client ID: CV0748LL-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-18-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB18009.D
Inj. Date and Time: 18-FEB-2013 16:00
Instrument ID: BSMC5973.i
Client ID: CV0748LL-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

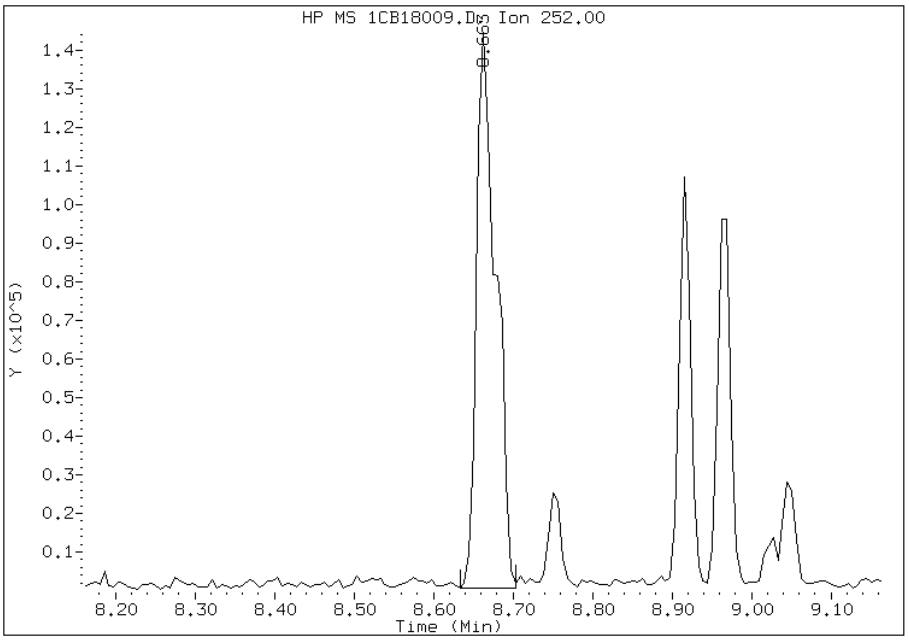
Processing Integration Results

RT: 8.66

Response: 243202

Amount: 4

Conc: 262



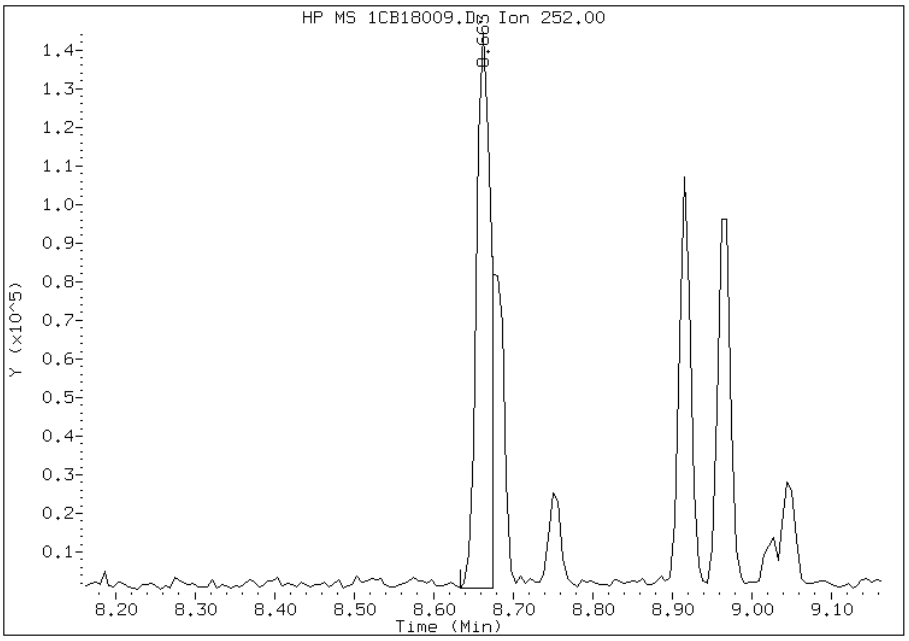
Manual Integration Results

RT: 8.66

Response: 178538

Amount: 3

Conc: 192



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB18009.D
Inj. Date and Time: 18-FEB-2013 16:00
Instrument ID: BSMC5973.i
Client ID: CV0748LL-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

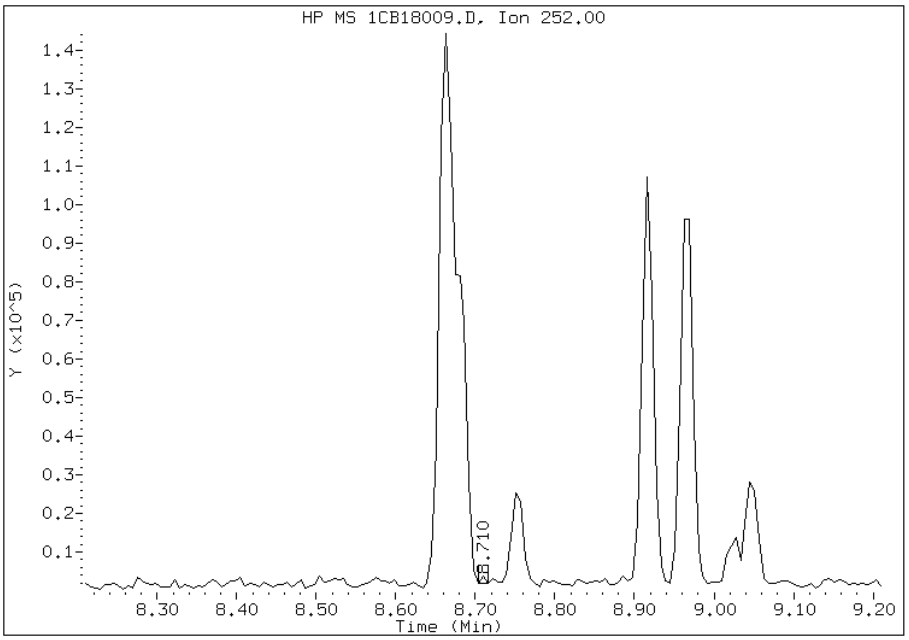
Processing Integration Results

RT: 8.71

Response: 803

Amount: 0

Conc: 1



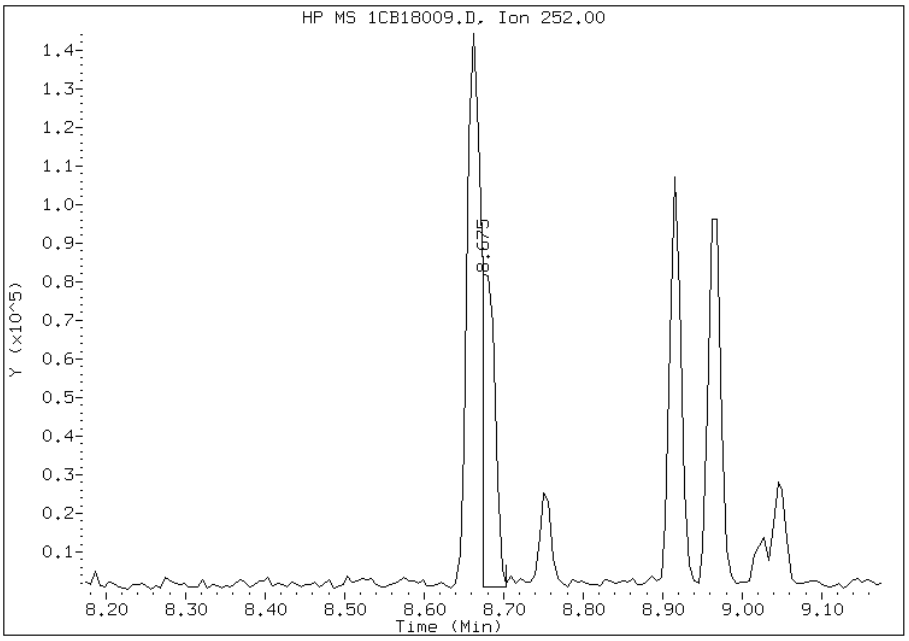
Manual Integration Results

RT: 8.67

Response: 92590

Amount: 1

Conc: 91



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB18009.D
Inj. Date and Time: 18-FEB-2013 16:00
Instrument ID: BSMC5973.i
Client ID: CV0748LL-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

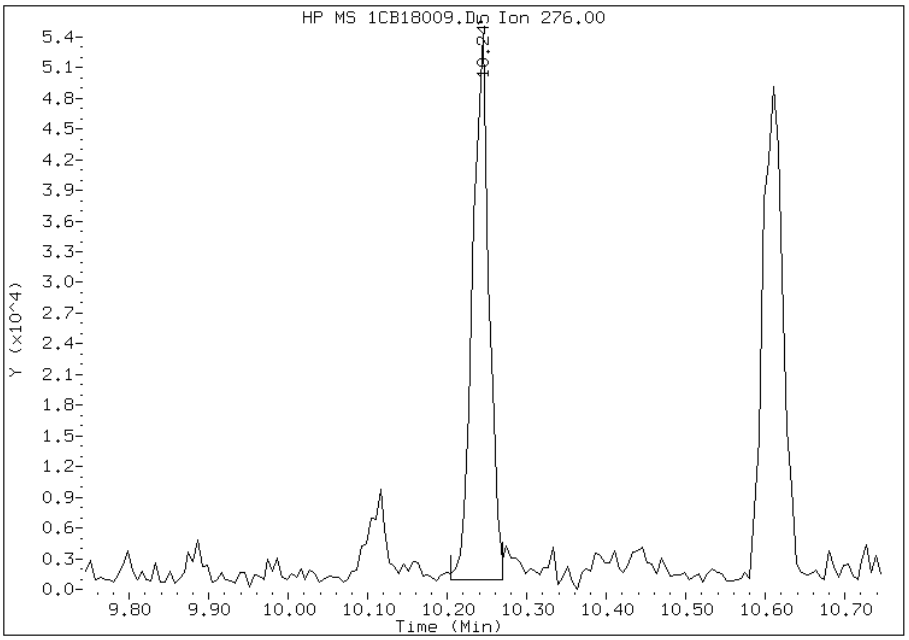
Processing Integration Results

RT: 10.25

Response: 76637

Amount: 1

Conc: 90



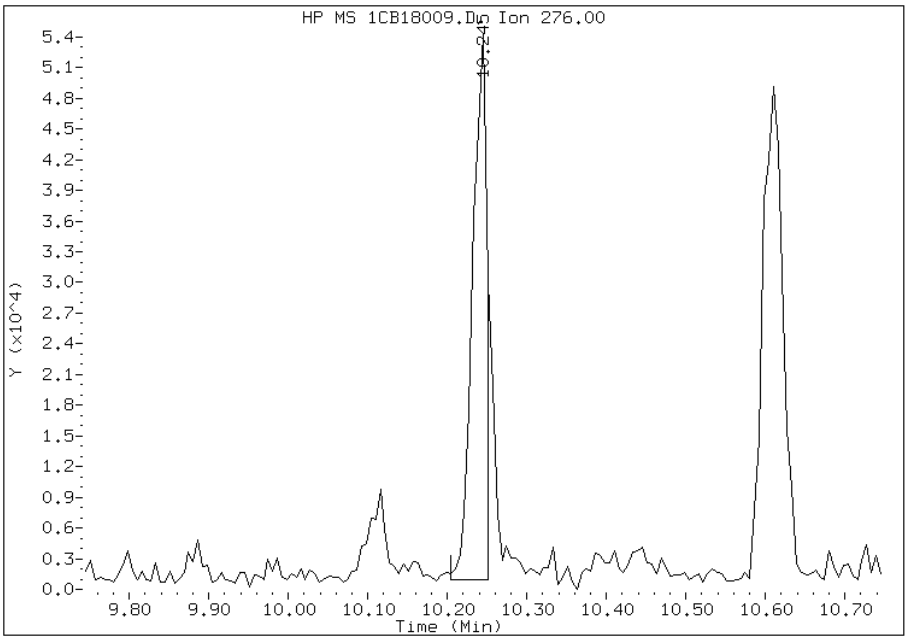
Manual Integration Results

RT: 10.25

Response: 67027

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: CV0748MM-CS | Lab Sample ID: 680-87279-19

Matrix: Solid | Lab File ID: 1CB18010.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:50

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.23(g) | Date Analyzed: 02/18/2013 16:18

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	6.0
120-12-7	Anthracene	10	U	10	5.0
56-55-3	Benzo[a]anthracene	29		9.6	4.7
50-32-8	Benzo[a]pyrene	23		12	6.2
205-99-2	Benzo[b]fluoranthene	31		15	7.3
191-24-2	Benzo[g,h,i]perylene	15	J	24	5.3
207-08-9	Benzo[k]fluoranthene	20		9.6	4.3
218-01-9	Chrysene	27		11	5.4
53-70-3	Dibenz(a,h)anthracene	5.4	J	24	4.9
206-44-0	Fluoranthene	40		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	14	J	24	8.5
90-12-0	1-Methylnaphthalene	7.2	J	48	5.3
91-57-6	2-Methylnaphthalene	11	J	48	8.5
91-20-3	Naphthalene	11	J	48	5.3
85-01-8	Phenanthrene	22		9.6	4.7
129-00-0	Pyrene	41		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18010.D
Lab Smp Id: 680-87279-A-19-A Client Smp ID: CV0748MM-CS
Inj Date : 18-FEB-2013 16:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87279-A-19-A
Misc Info : 680-87279-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\a-bFASTPAHi-m.m
Meth Date : 18-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	Weight Extracted
M	17.773	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.815	3.816	(1.000)	1965807	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1550958	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2879106	40.0000	
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	336033	7.96561	636.0696
* 18 Chrysene-d12	240	7.803	7.809	(1.000)	3018479	40.0000	
* 23 Perylene-d12	264	9.021	9.027	(1.000)	2957547	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	7383	0.14173	11.3175
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	4588	0.13545	10.8163
4 1-Methylnaphthalene	142	4.315	4.315	(1.131)	2774	0.09005	7.1906(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	23449	0.27286	21.7880
15 Fluoranthene	202	6.709	6.715	(1.146)	42332	0.50410	40.2537
16 Pyrene	202	6.880	6.880	(0.882)	41258	0.51342	40.9975
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	29811	0.35814	28.5980
19 Chrysene	228	7.821	7.827	(1.002)	29467	0.34271	27.3664

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
20 Benzo(b)fluoranthene	252	8.656	8.662	(0.960)	28481	0.39279	31.3650
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	20259	0.25361	20.2515
22 Benzo(a)pyrene	252	8.962	8.968	(0.993)	19690	0.28538	22.7878
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.250	(1.134)	11668	0.17607	14.0593
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.138)	4229	0.06767	5.4036(QM)
26 Benzo(g,h,i)perylene	276	10.603	10.621	(1.175)	12983	0.19286	15.4005

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB18010.D

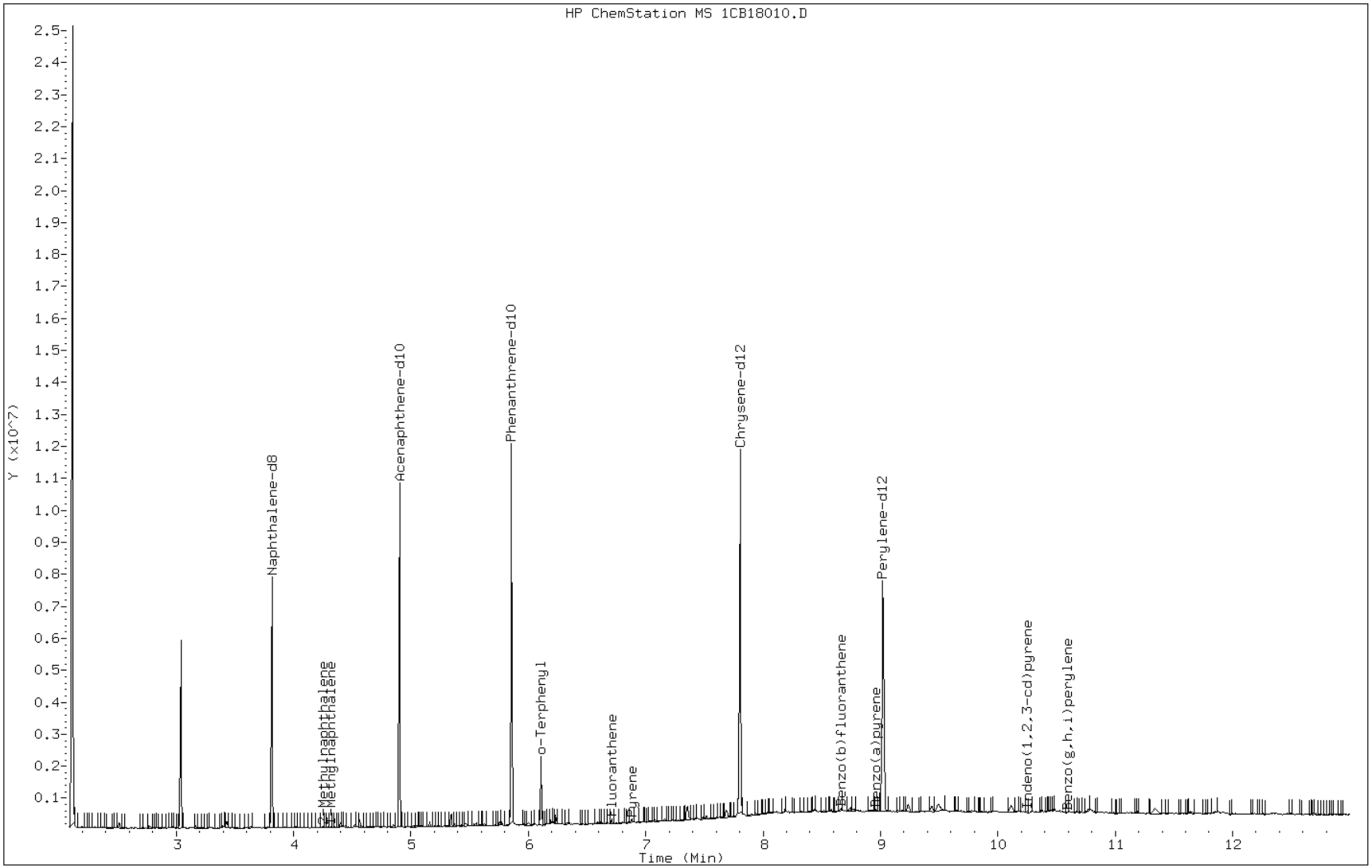
Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS

Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A

Operator: SCC



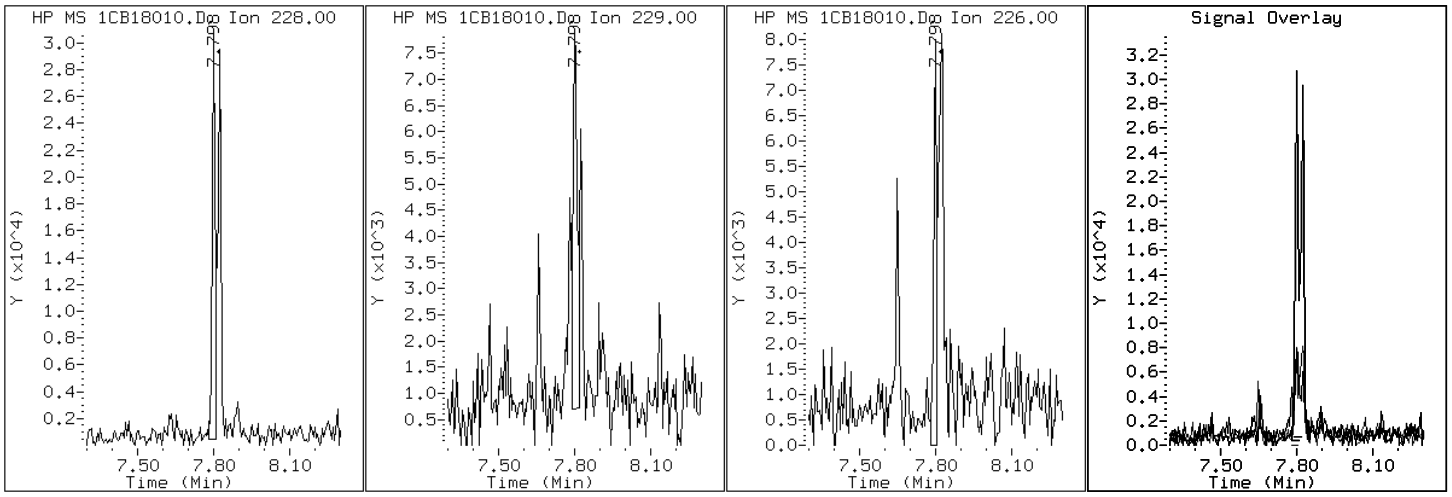
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

17 Benzo(a)anthracene



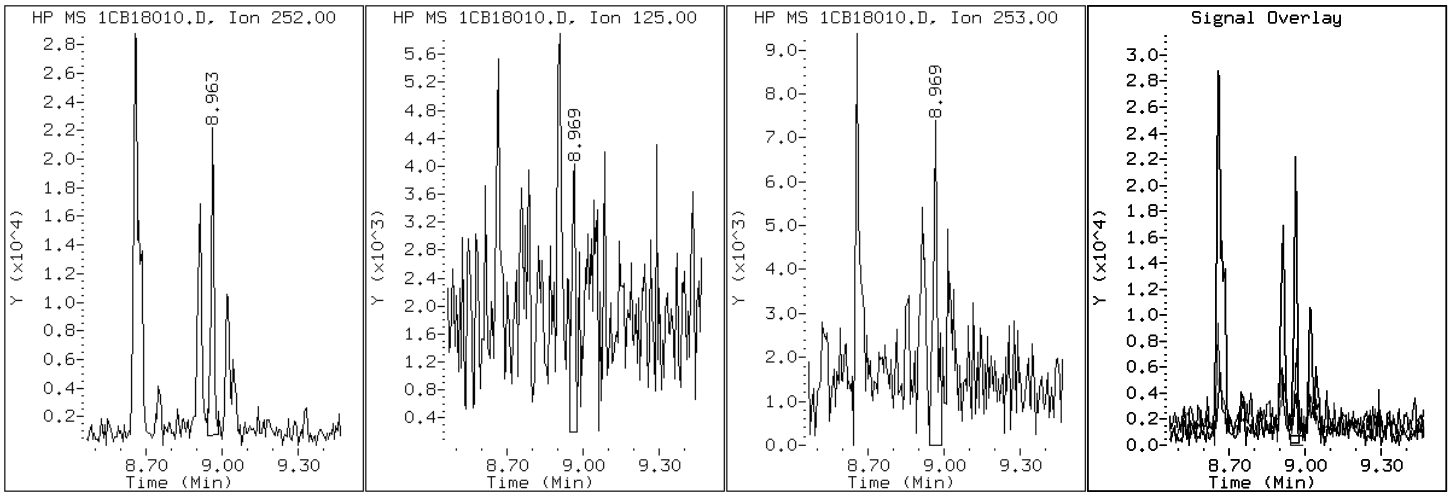
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

22 Benzo(a)pyrene



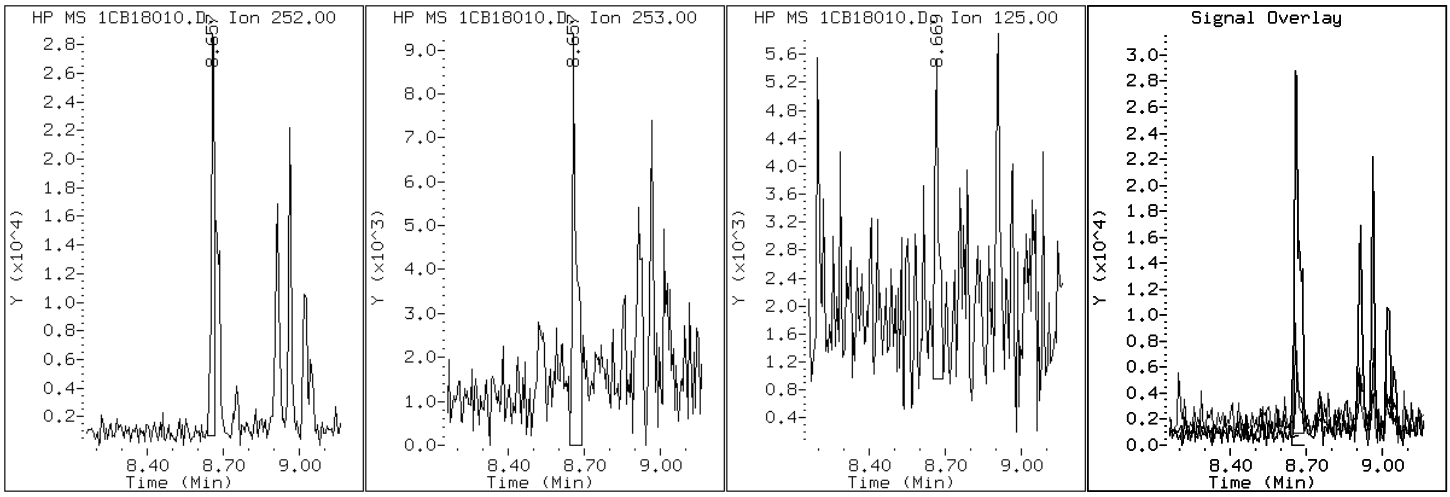
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

20 Benzo(b)fluoranthene



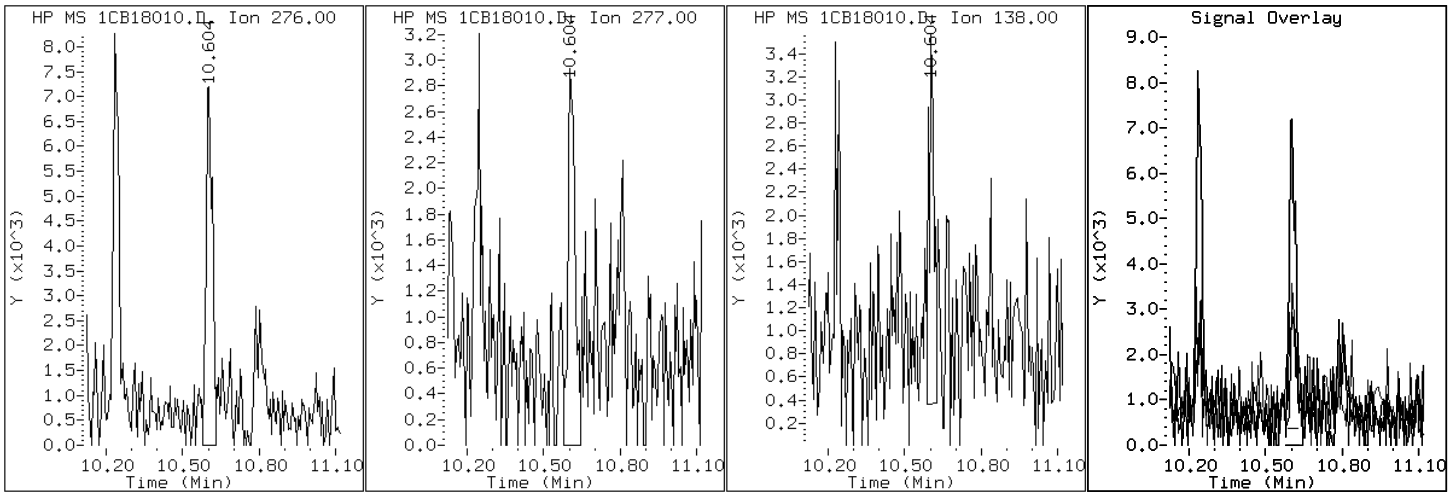
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

26 Benzo(g,h,i)perylene



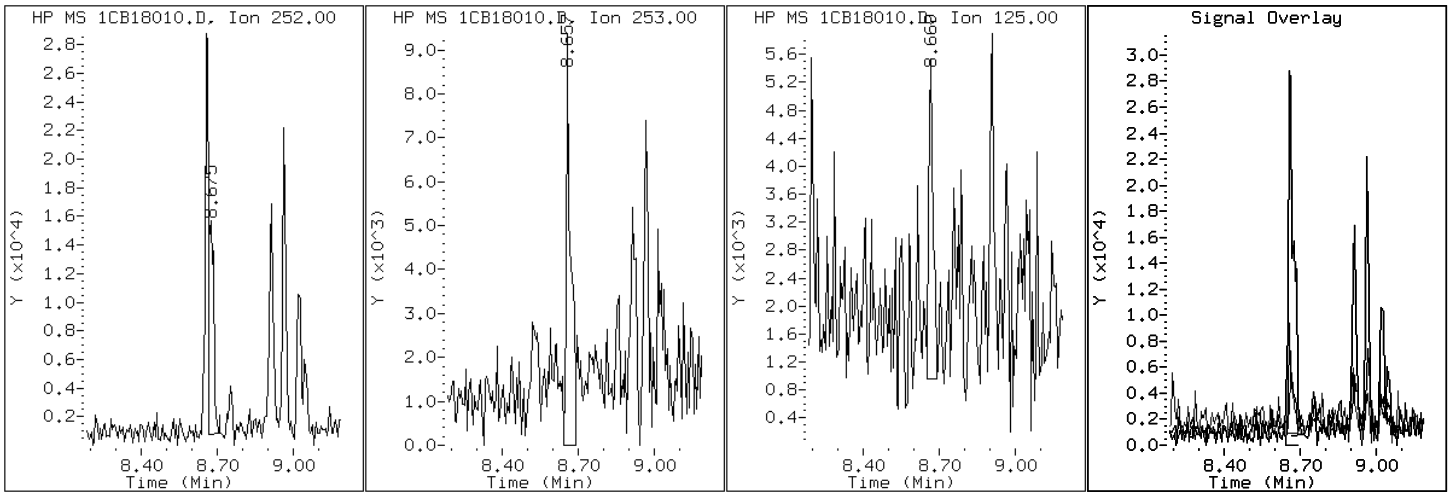
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

21 Benzo(k)fluoranthene



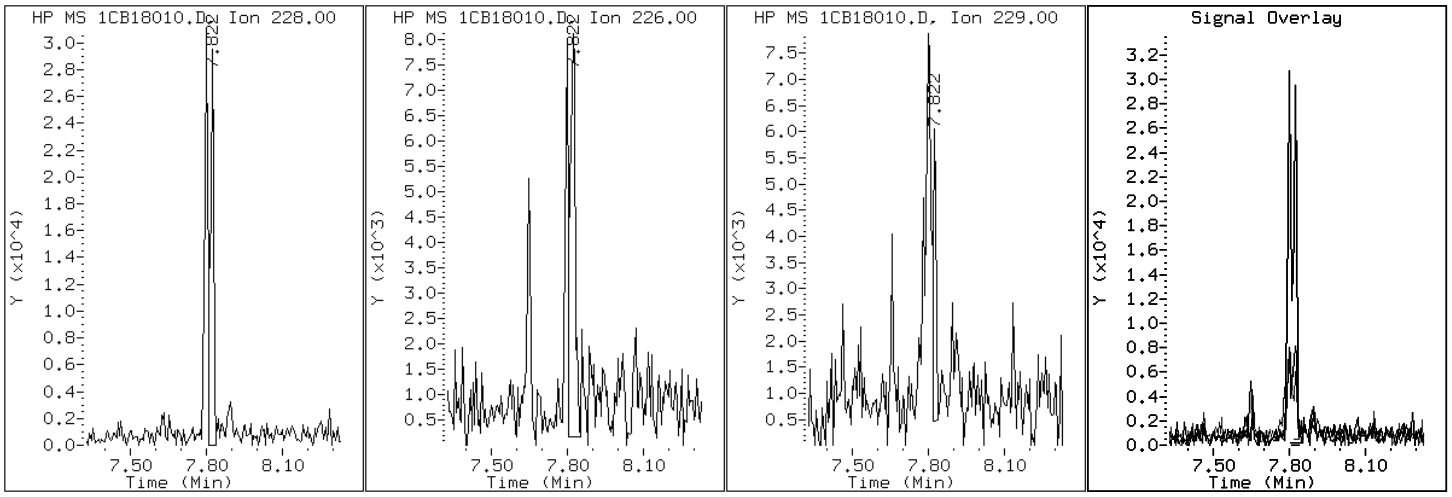
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

19 Chrysene



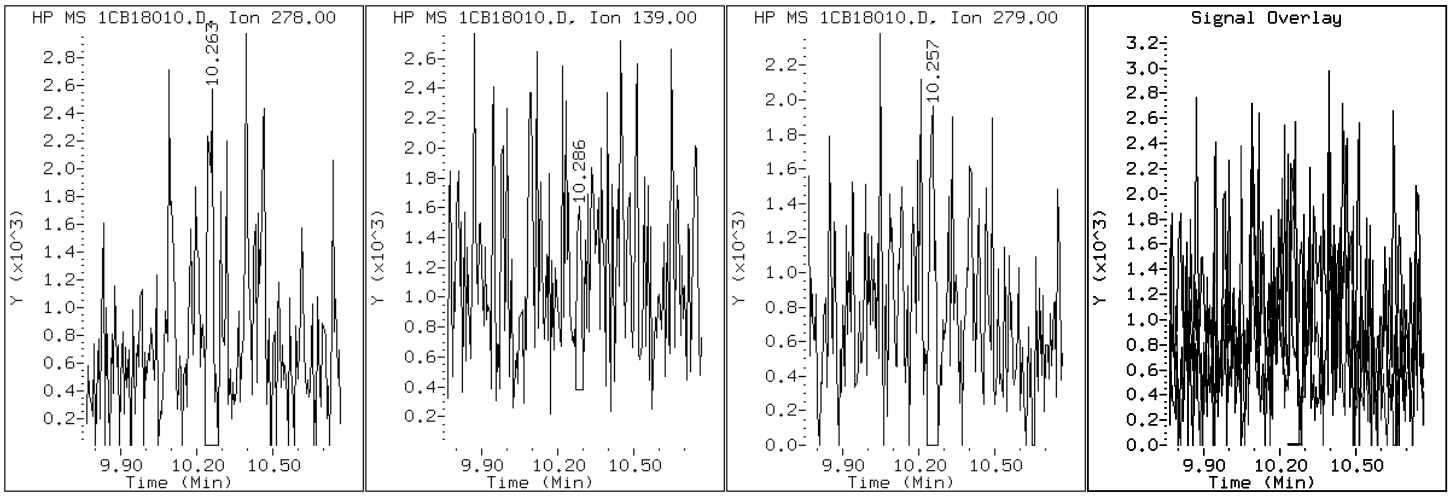
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

25 Dibenzo(a,h)anthracene



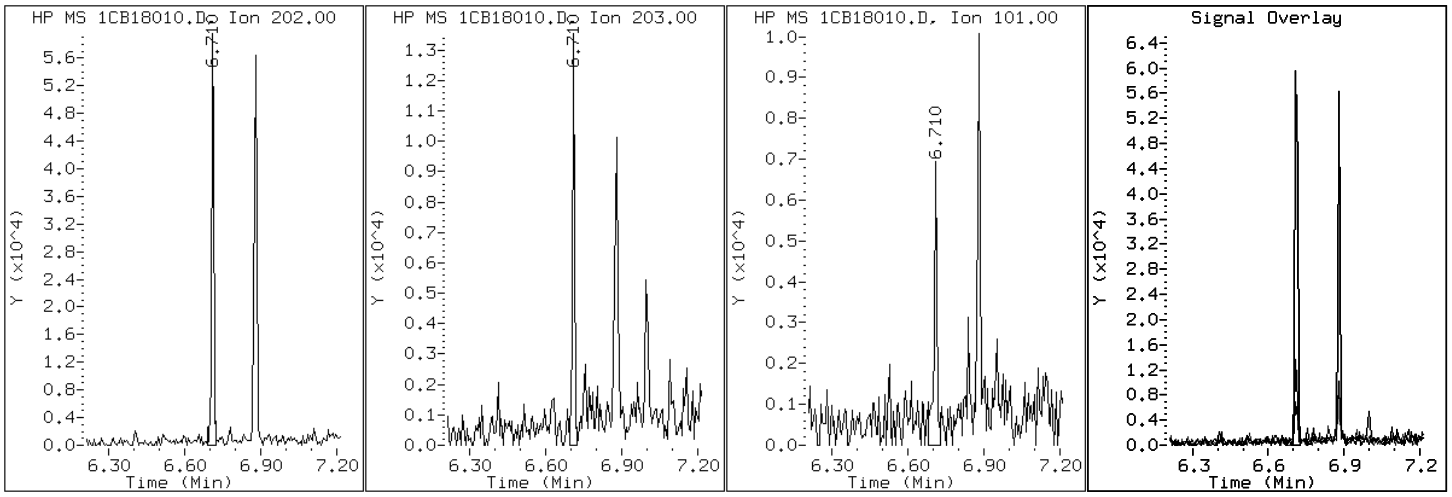
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

15 Fluoranthene



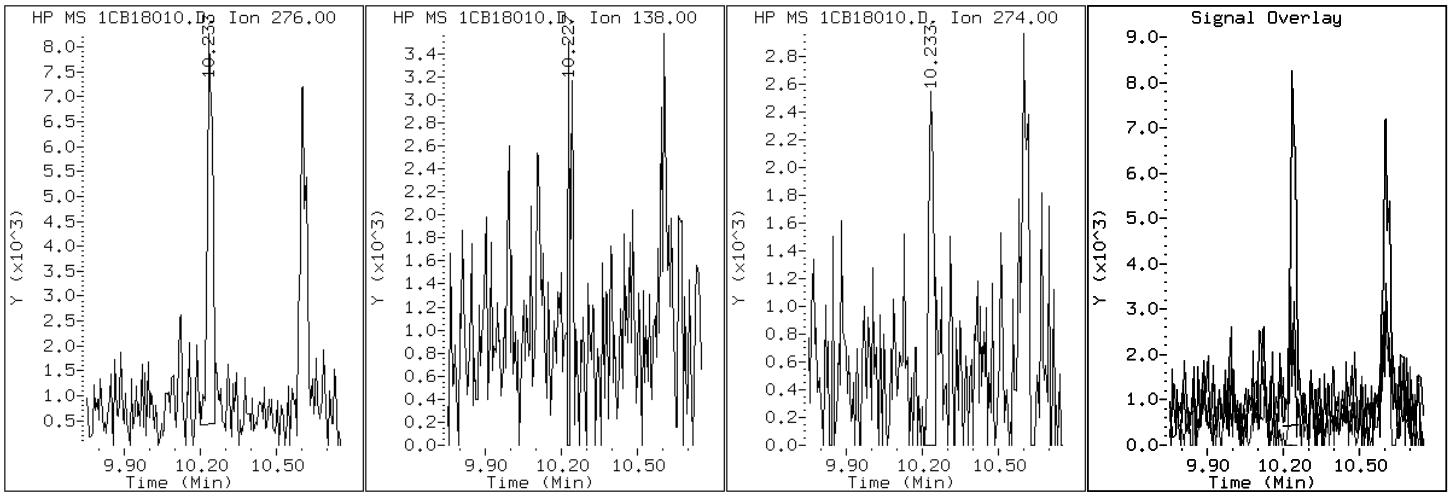
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

24 Indeno(1,2,3-cd)pyrene



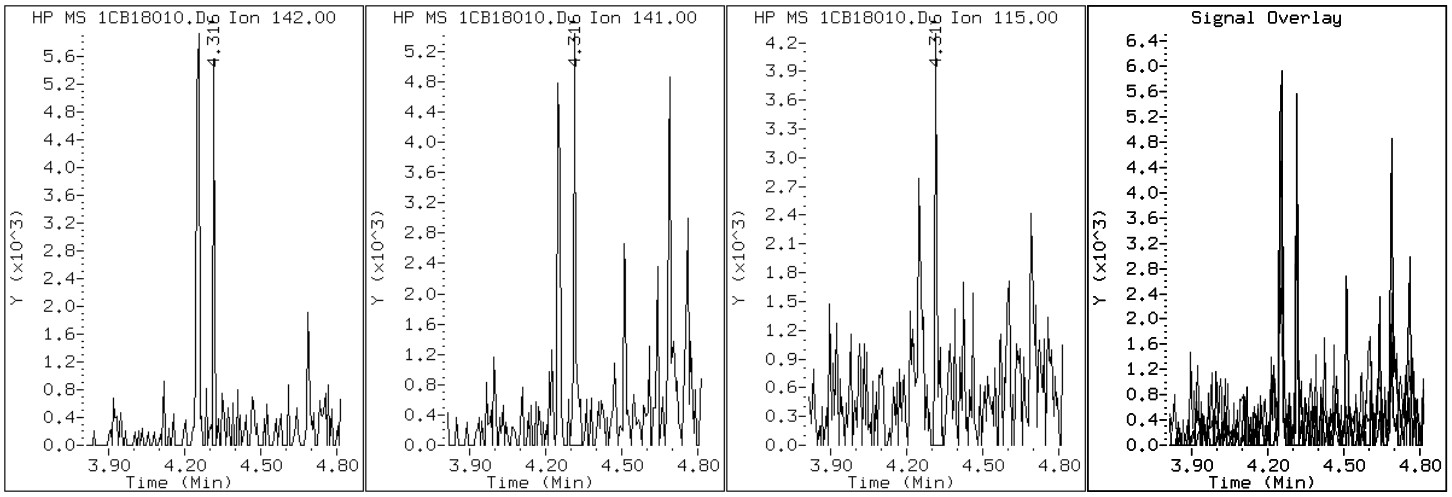
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

4 1-Methylnaphthalene



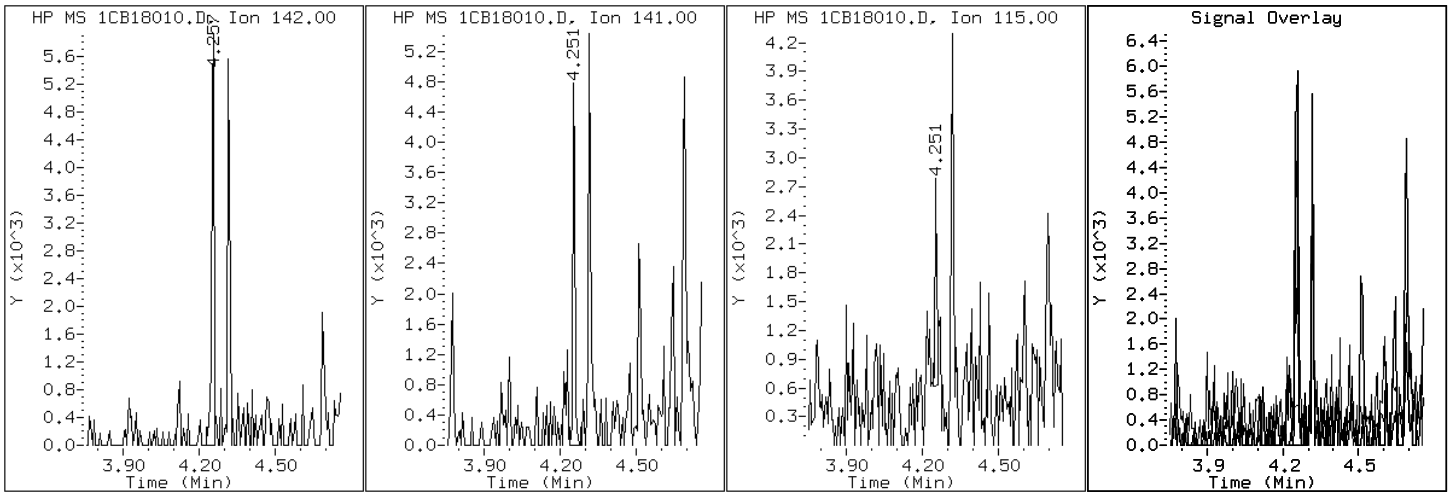
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

3 2-Methylnaphthalene



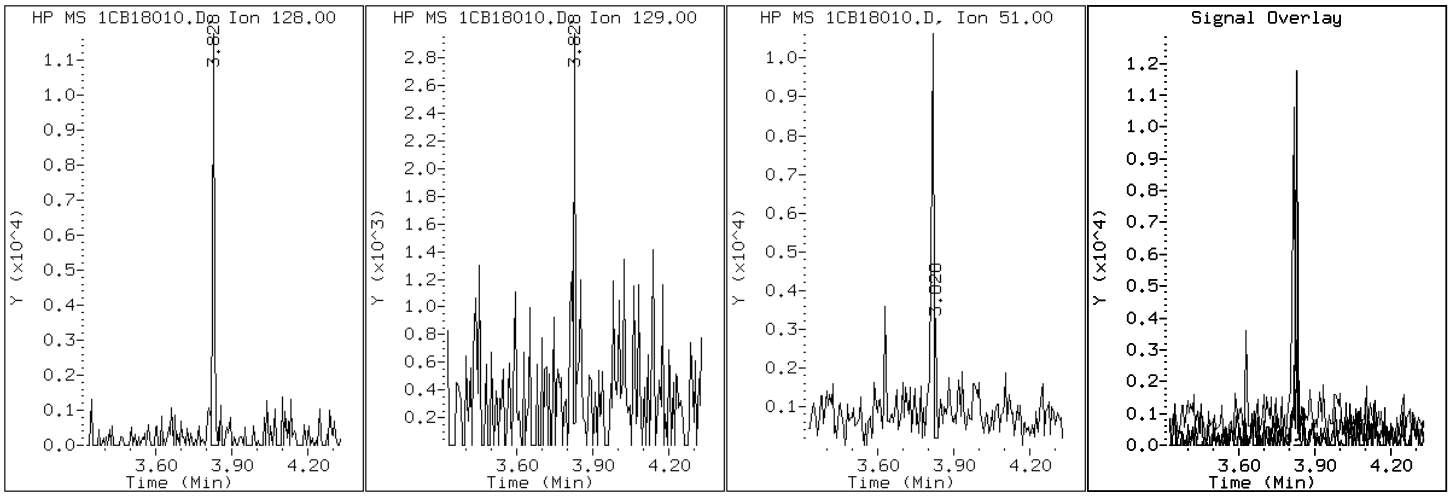
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

2 Naphthalene



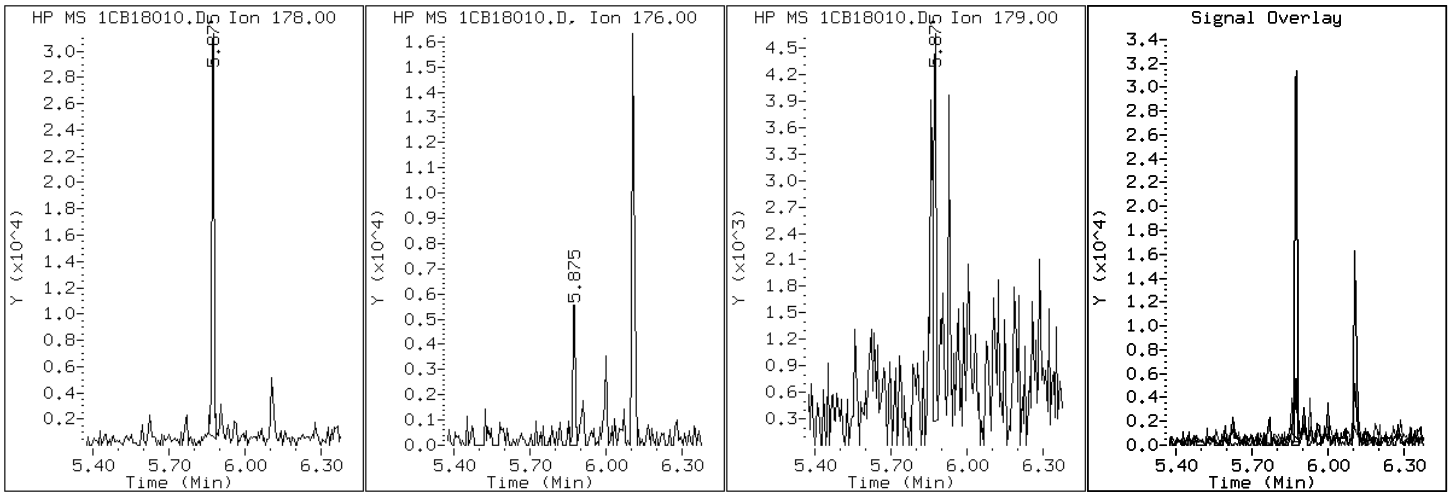
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

11 Phenanthrene



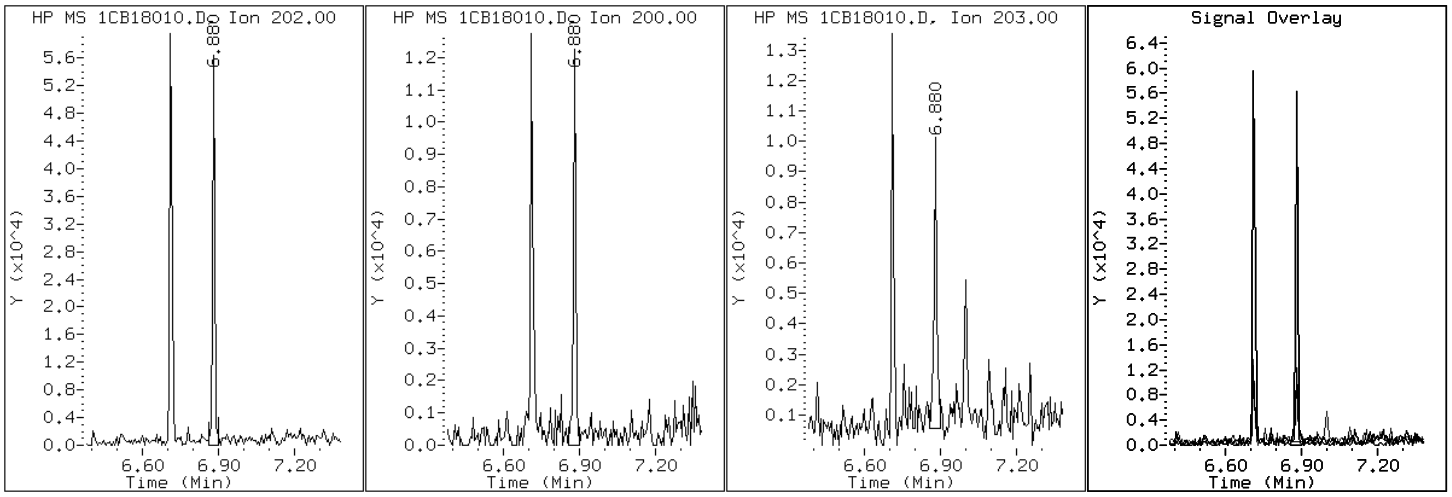
Data File: 1CB18010.D

Date: 18-FEB-2013 16:18

Client ID: CV0748MM-CS Instrument: BSMC5973.i

Sample Info: 680-87279-A-19-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB18010.D
Inj. Date and Time: 18-FEB-2013 16:18
Instrument ID: BSMC5973.i
Client ID: CV0748MM-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/18/2013

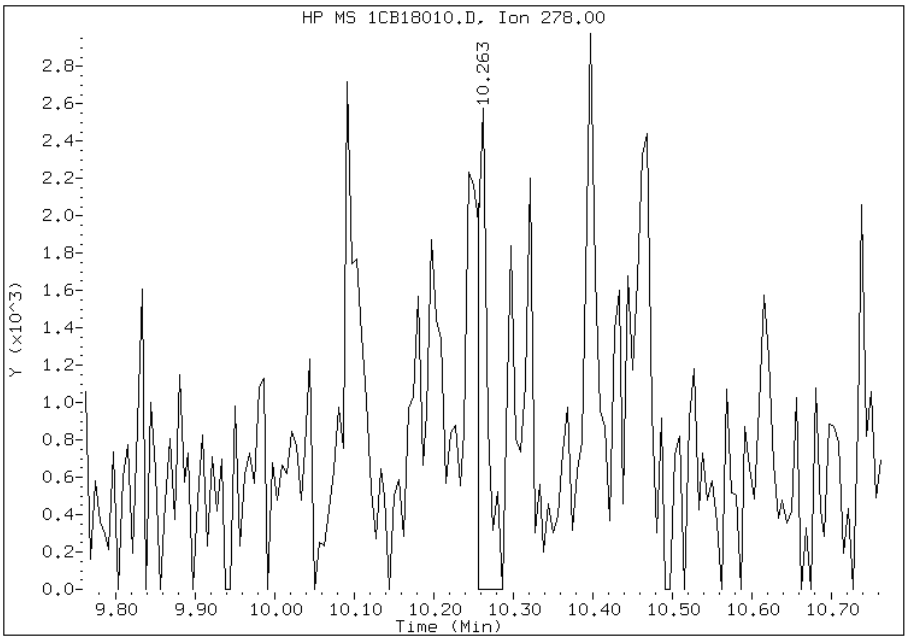
Processing Integration Results

RT: 10.26

Response: 2208

Amount: 0

Conc: 3



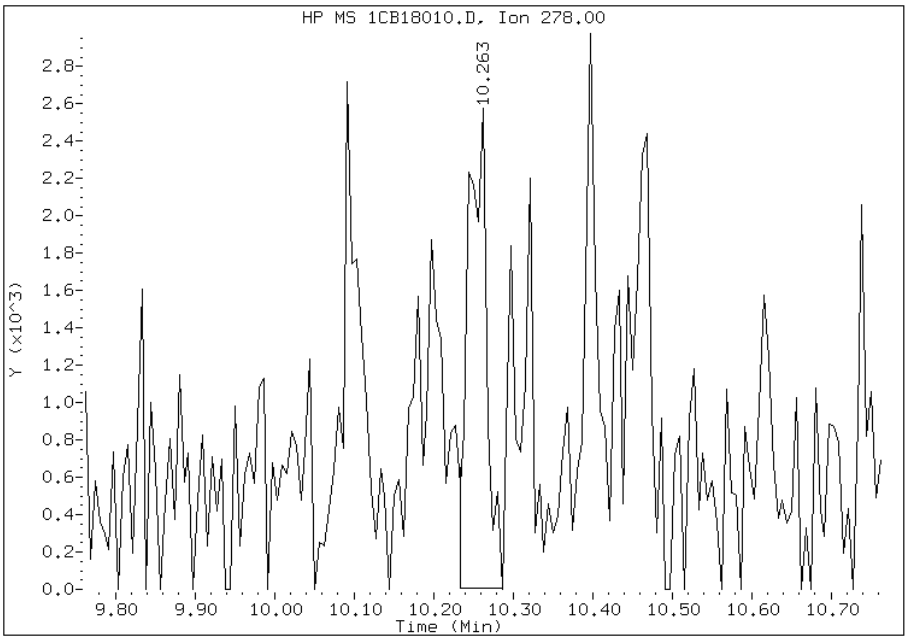
Manual Integration Results

RT: 10.26

Response: 4229

Amount: 0

Conc: 5



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:45
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: CV0748PP-CS | Lab Sample ID: 680-87279-20

Matrix: Solid | Lab File ID: 1AB15016.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 11:10

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.19(g) | Date Analyzed: 02/15/2013 17:52

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	20	J	41	5.1
120-12-7	Anthracene	57		8.6	4.3
56-55-3	Benzo[a]anthracene	340		8.2	4.0
50-32-8	Benzo[a]pyrene	190		11	5.3
205-99-2	Benzo[b]fluoranthene	290		13	6.3
191-24-2	Benzo[g,h,i]perylene	170		21	4.5
207-08-9	Benzo[k]fluoranthene	130		8.2	3.7
218-01-9	Chrysene	300		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	64		21	4.2
206-44-0	Fluoranthene	600		21	4.1
86-73-7	Fluorene	11	J	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	170		21	7.3
90-12-0	1-Methylnaphthalene	26	J	41	4.5
91-57-6	2-Methylnaphthalene	35	J	41	7.3
91-20-3	Naphthalene	32	J	41	4.5
85-01-8	Phenanthrene	300		8.2	4.0
129-00-0	Pyrene	480		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15016.D
Lab Smp Id: 680-87279-A-20-A Client Smp ID: CV0748PP-CS
Inj Date : 15-FEB-2013 17:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-20-a
Misc Info : 680-87279-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	3.820	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.420	2.415	(1.000)	885617	40.0000	
* 6 Acenaphthene-d10	164	3.446	3.441	(1.000)	577751	40.0000	
* 10 Phenanthrene-d10	188	4.386	4.386	(1.000)	833952	40.0000	
$ 14 o-Terphenyl	230	4.669	4.664	(1.065)	80441	6.63827	454.3738
* 18 Chrysene-d12	240	6.411	6.411	(1.000)	548112	40.0000	
* 23 Perylene-d12	264	7.511	7.501	(1.000)	717356	40.0000	
2 Naphthalene	128	2.425	2.426	(1.002)	10073	0.46860	32.0744(Q)
3 2-Methylnaphthalene	141	2.831	2.832	(1.170)	5893	0.51173	35.0266
4 1-Methylnaphthalene	142	2.885	2.885	(1.192)	5041	0.38670	26.4688
5 Acenaphthylene	152	3.360	3.355	(0.975)	7431	0.29129	19.9381
9 Fluorene	166	3.772	3.772	(1.095)	2802	0.16139	11.0467
11 Phenanthrene	178	4.402	4.402	(1.004)	100144	4.39798	301.0314
12 Anthracene	178	4.434	4.434	(1.011)	19317	0.83206	56.9526
13 Carbazole	167	4.589	4.589	(1.046)	9989	0.50195	34.3573

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.267	5.262	(1.201)	196353	8.69761	595.3310
16 Pyrene	202	5.433	5.433	(0.848)	138361	6.98968	478.4268
17 Benzo(a)anthracene	228	6.405	6.395	(0.999)	80736	4.93319	337.6652
19 Chrysene	228	6.427	6.427	(1.002)	70596	4.42548	302.9133
20 Benzo(b)fluoranthene	252	7.228	7.217	(0.962)	85914	4.29107	293.7136(M)
21 Benzo(k)fluoranthene	252	7.239	7.239	(0.964)	40362	1.92813	131.9760(QM)
22 Benzo(a)pyrene	252	7.458	7.452	(0.993)	52628	2.76803	189.4653
24 Indeno(1,2,3-cd)pyrene	276	8.248	8.238	(1.098)	36659	2.44181	167.1361(M)
25 Dibenzo(a,h)anthracene	278	8.254	8.254	(1.099)	13956	0.92986	63.6468
26 Benzo(g,h,i)perylene	276	8.462	8.446	(1.127)	39733	2.55461	174.8567

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB15016.D

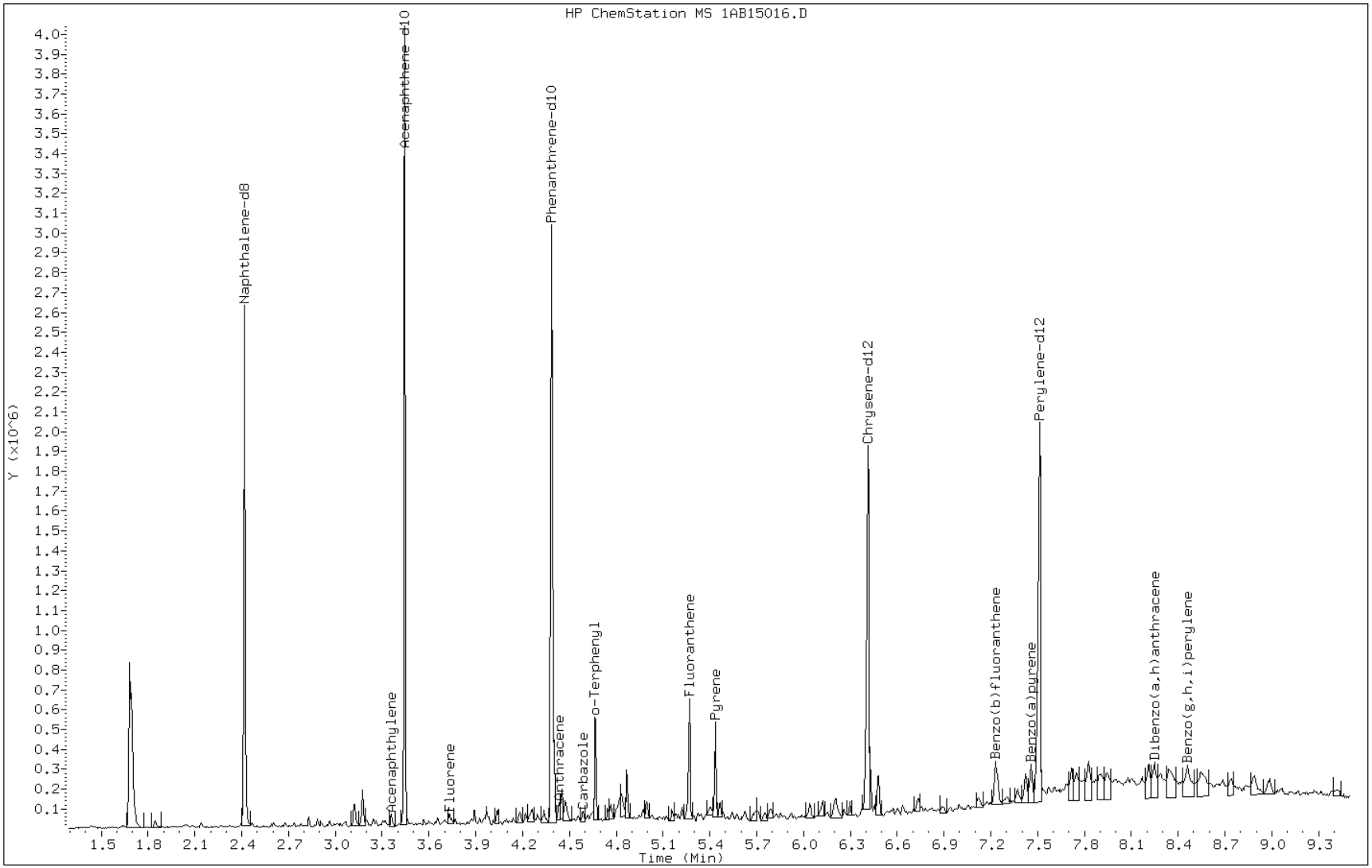
Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS

Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a

Operator: SCC



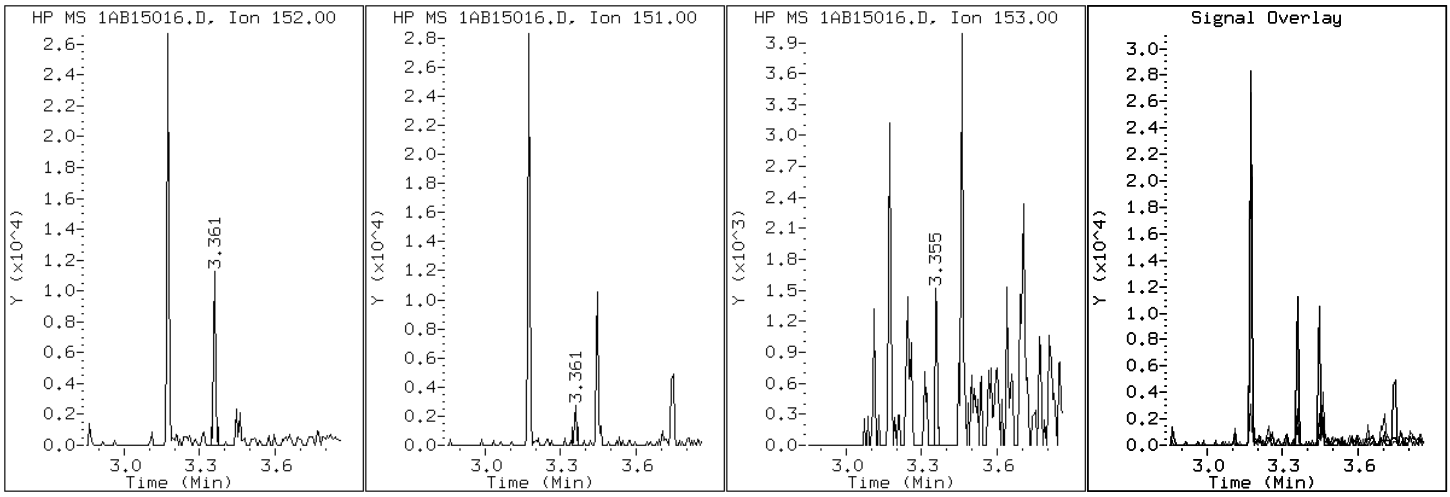
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

5 Acenaphthylene



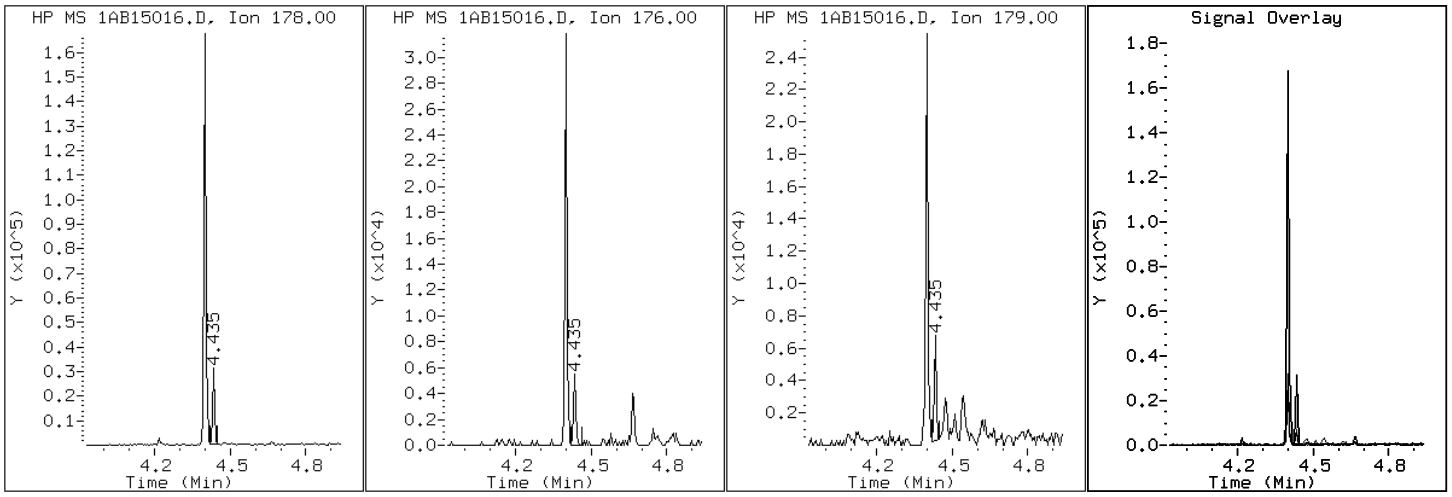
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

12 Anthracene



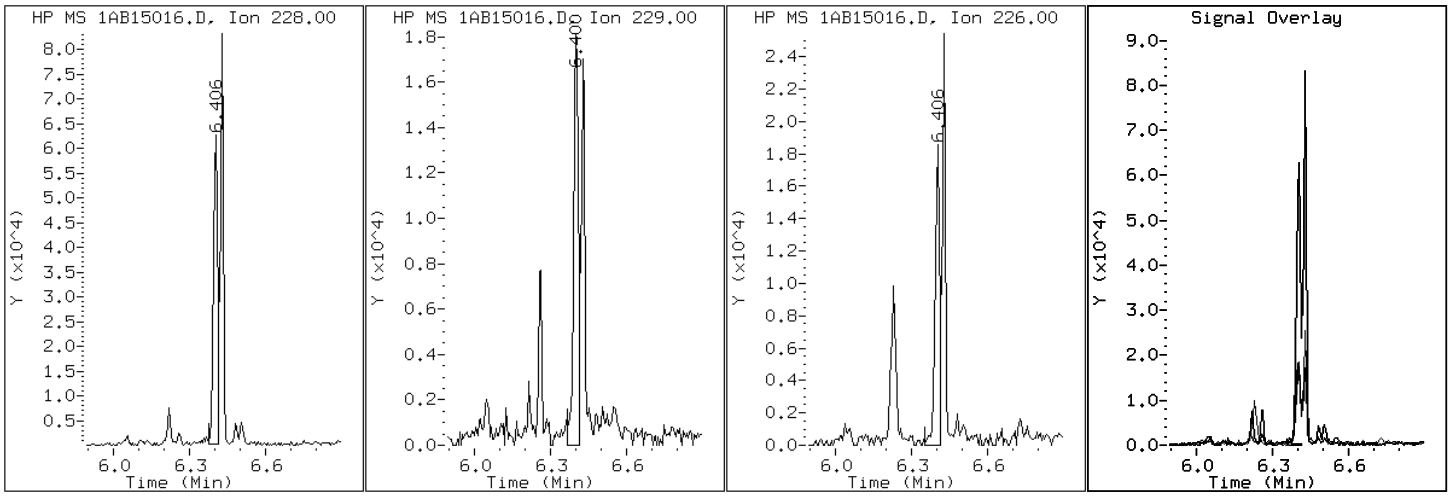
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

17 Benzo(a)anthracene



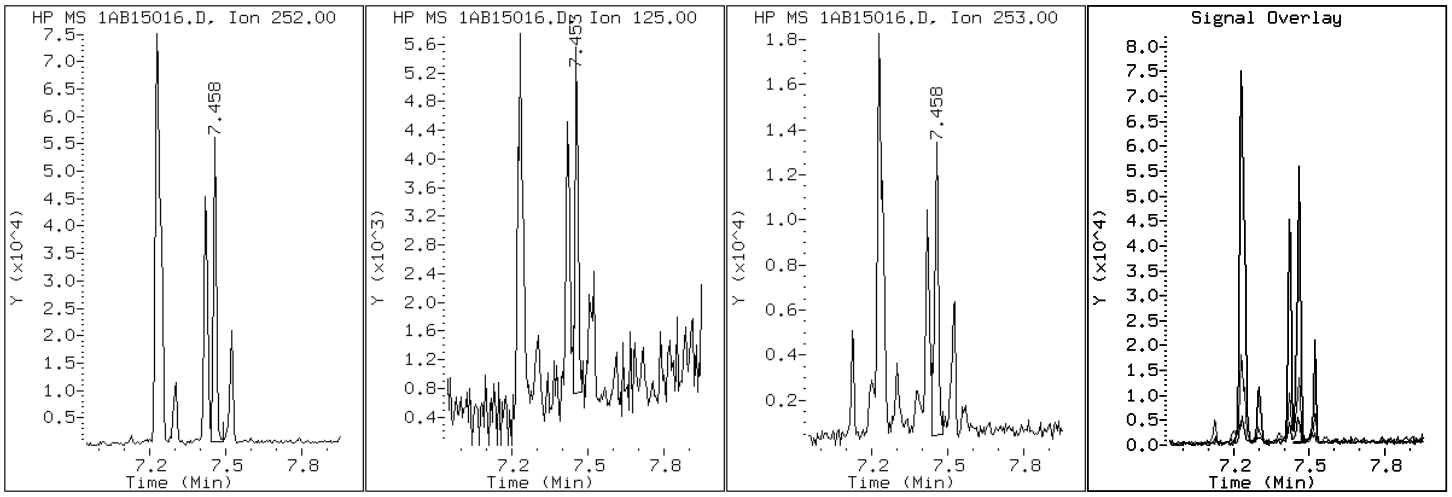
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

22 Benzo(a)pyrene



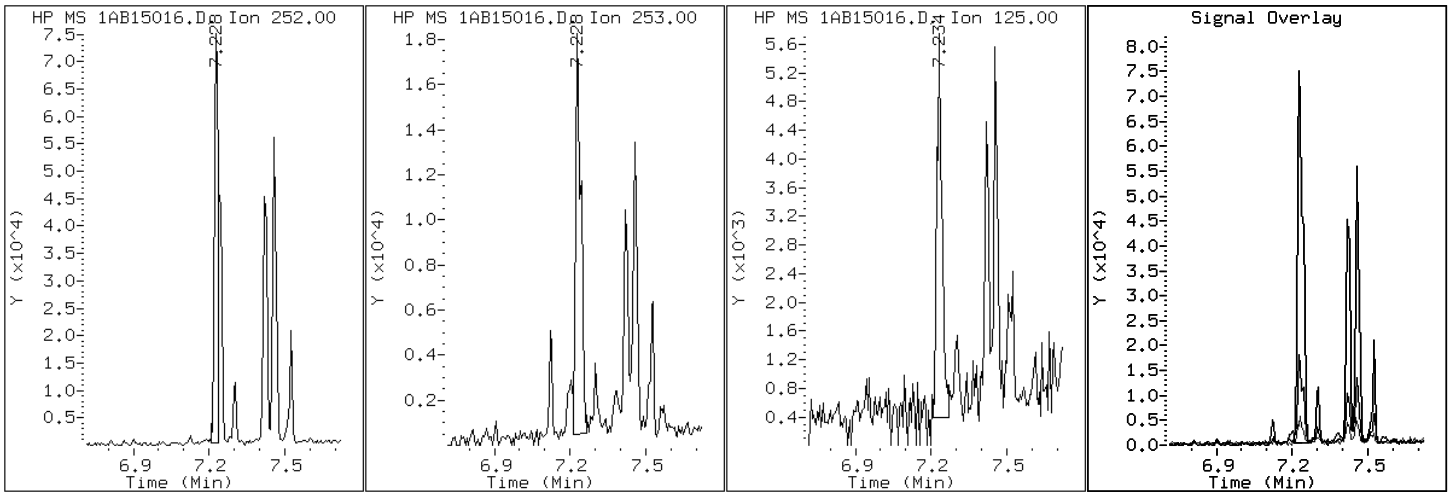
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

20 Benzo(b)fluoranthene



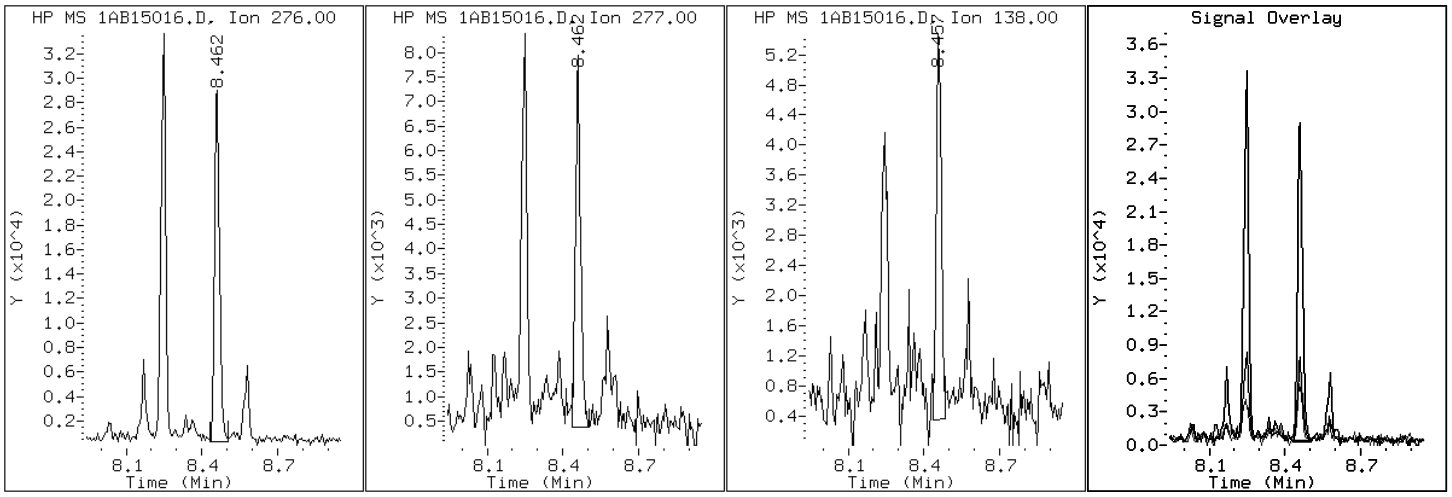
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

26 Benzo(g,h,i)perylene



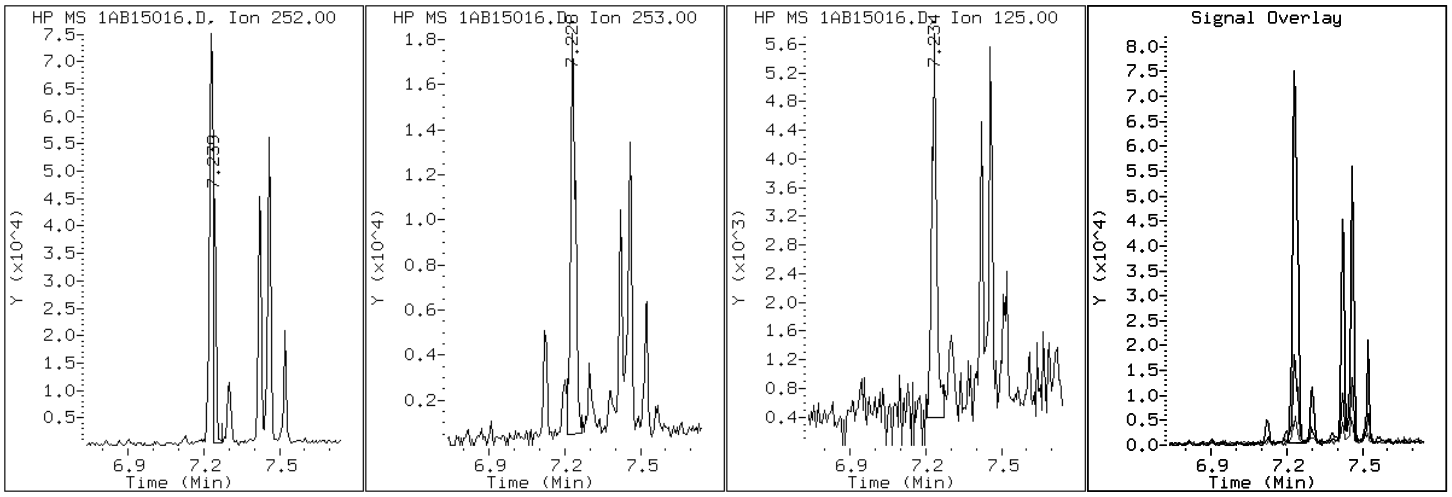
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

21 Benzo(k)fluoranthene



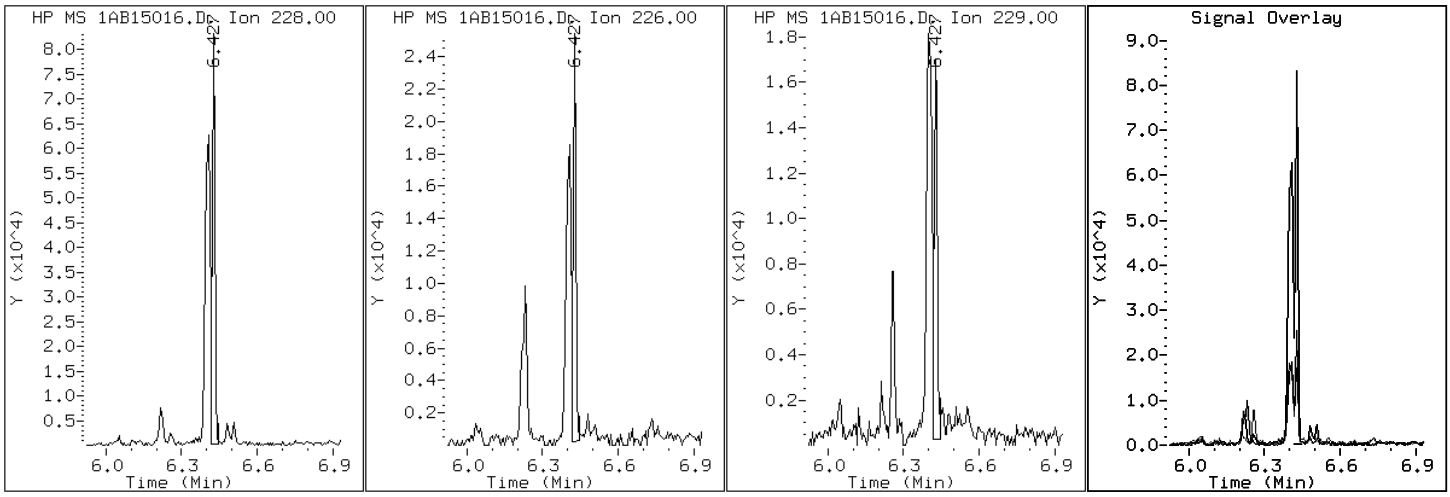
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

19 Chrysene



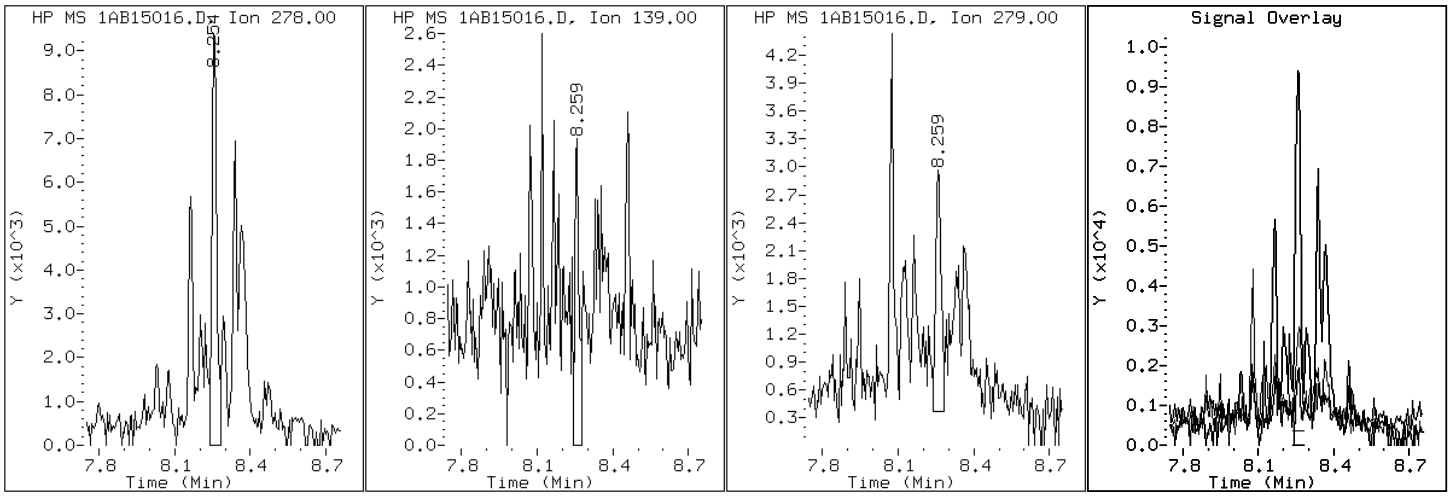
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

25 Dibenzo(a,h)anthracene



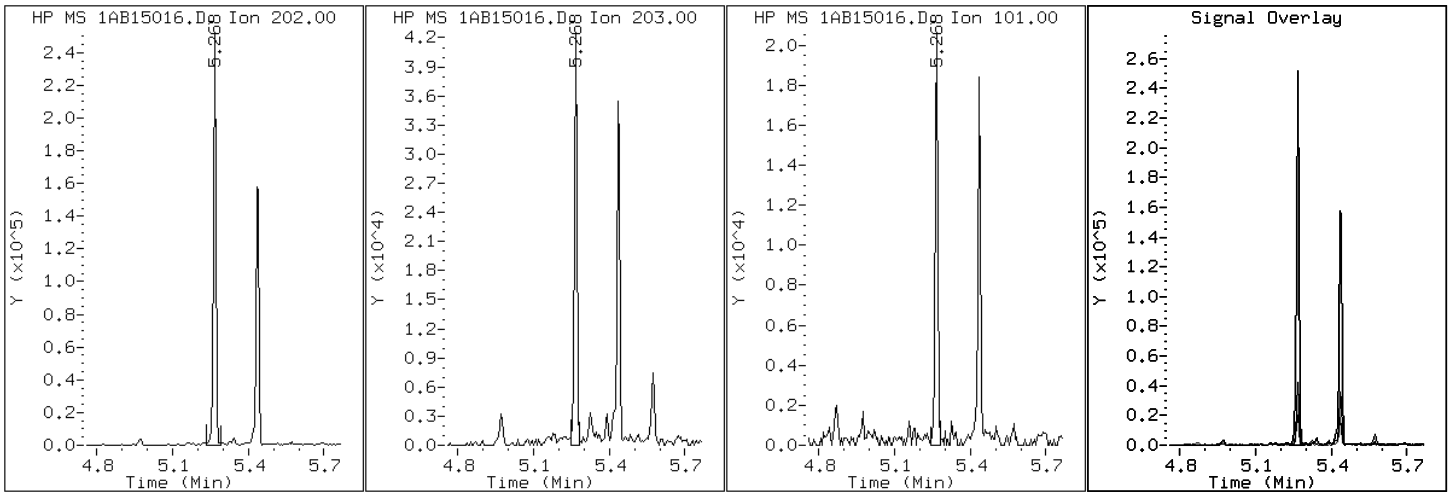
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

15 Fluoranthene



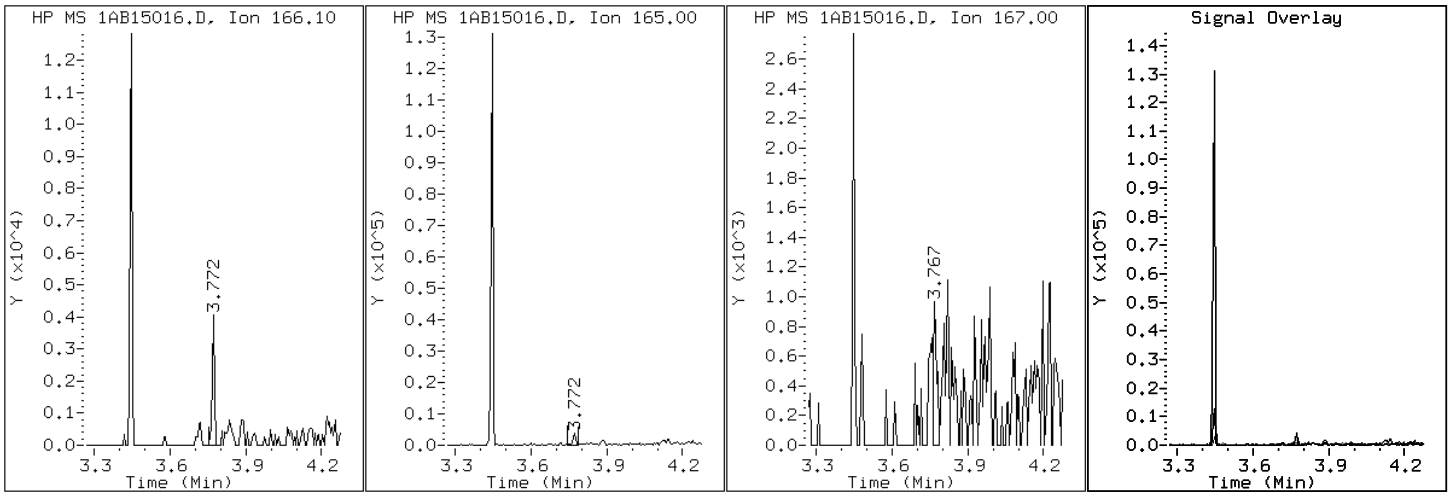
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

9 Fluorene



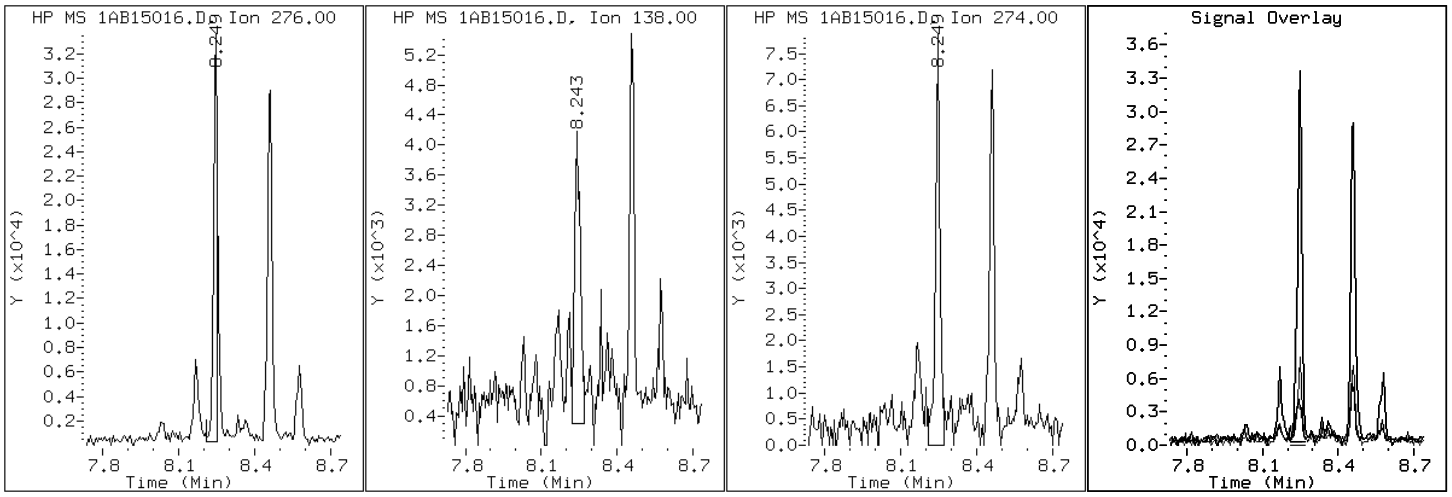
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

24 Indeno(1,2,3-cd)pyrene



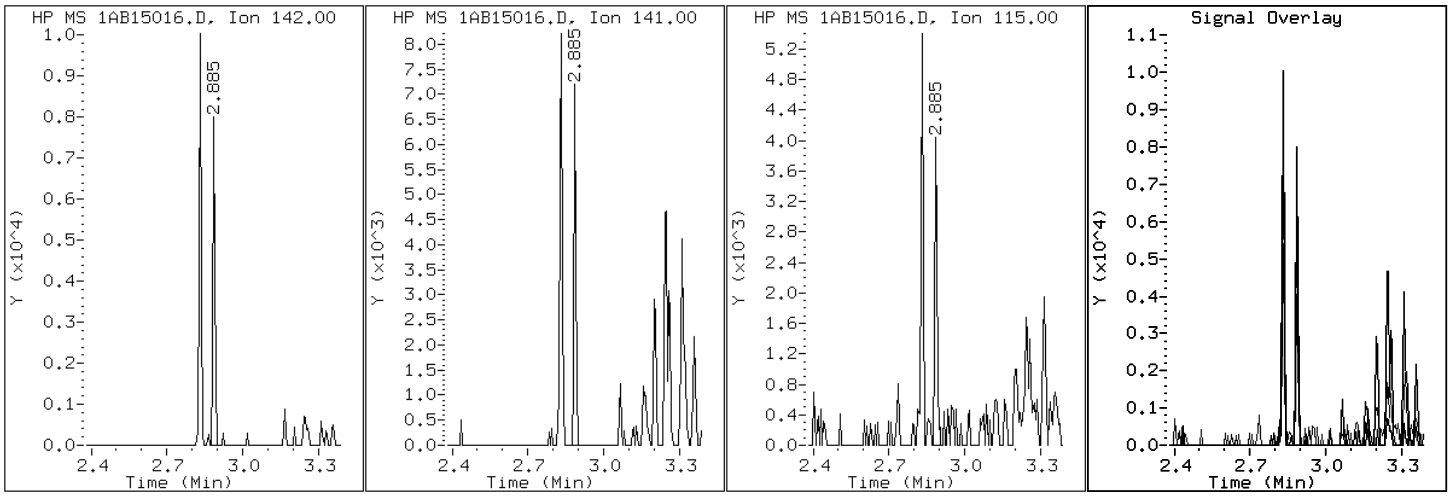
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

4 1-Methylnaphthalene



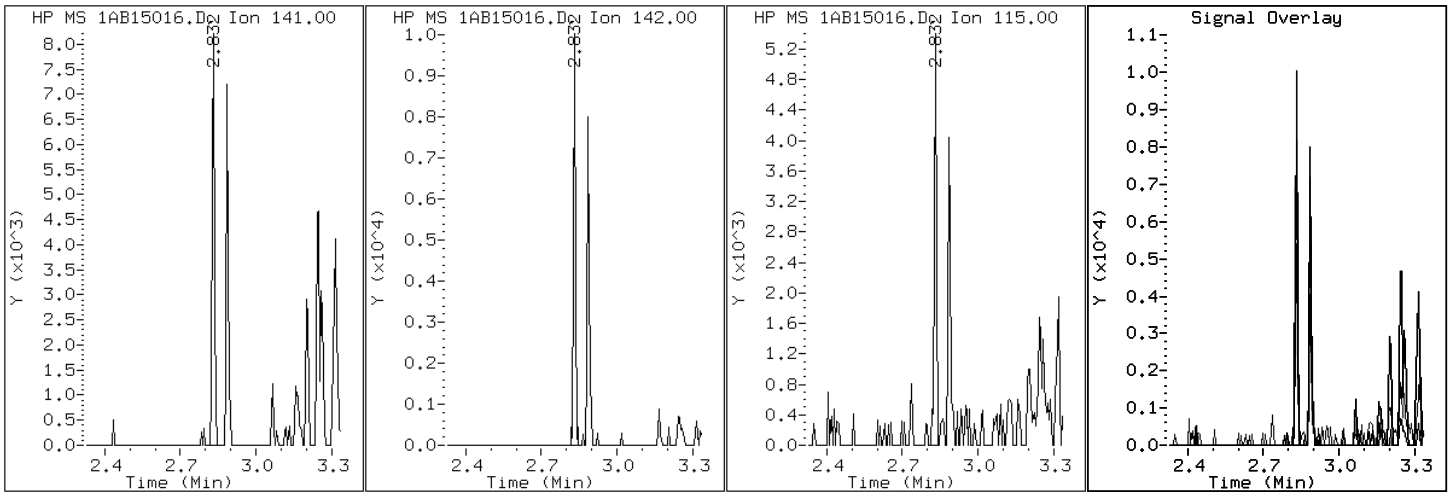
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

3 2-Methylnaphthalene



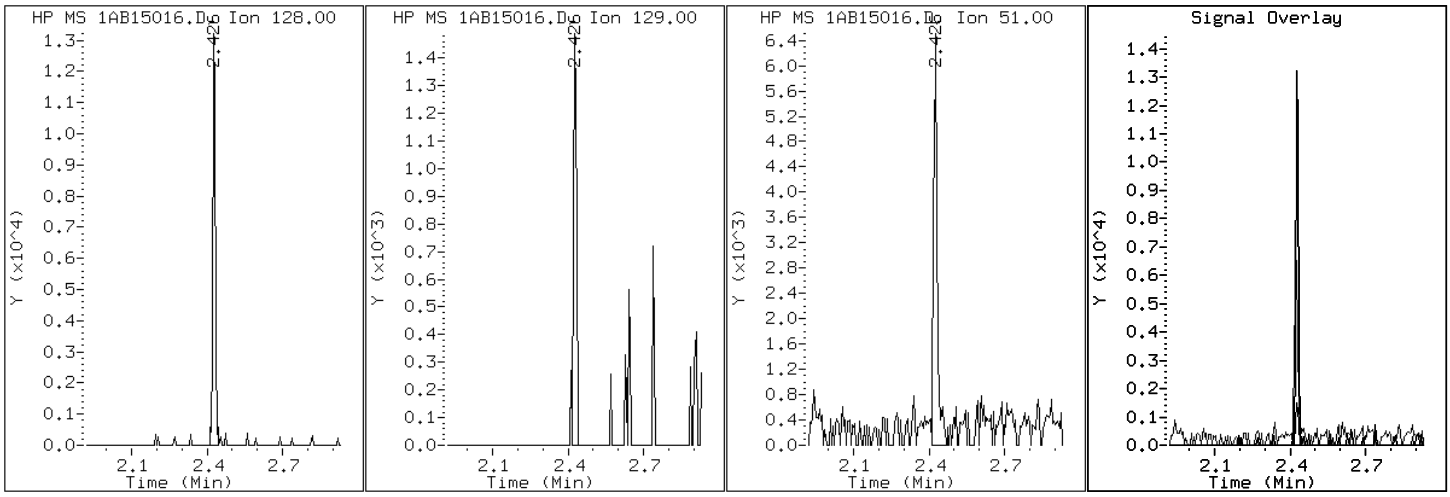
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

2 Naphthalene



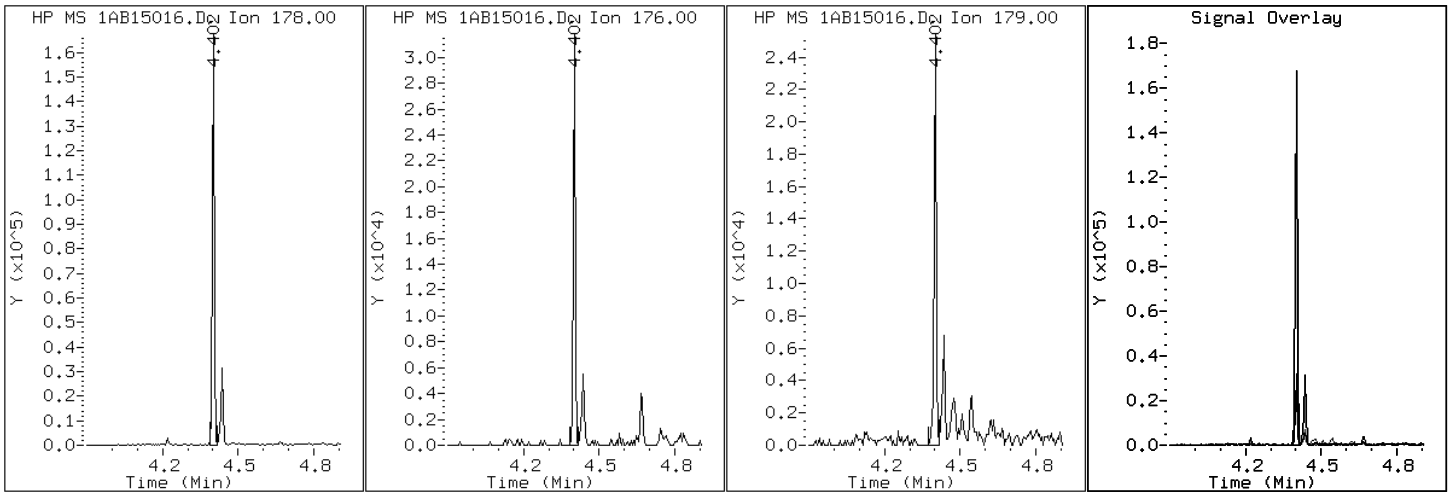
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

11 Phenanthrene



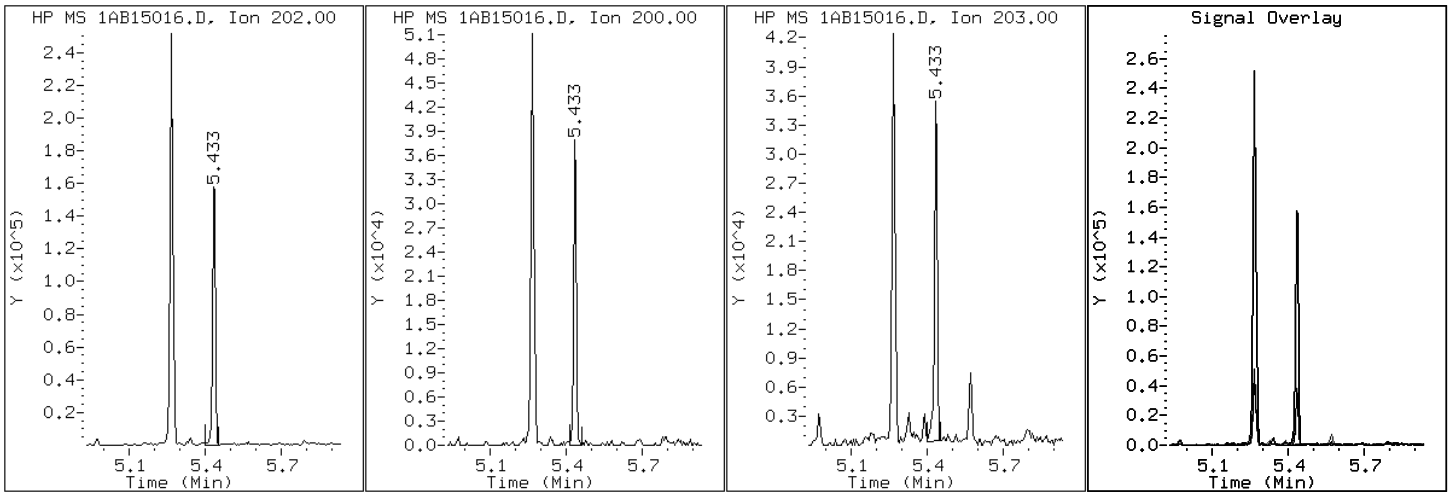
Data File: 1AB15016.D

Date: 15-FEB-2013 17:52

Client ID: CV0748PP-CS Instrument: BSMA5973.i

Sample Info: 680-87279-a-20-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15016.D
Inj. Date and Time: 15-FEB-2013 17:52
Instrument ID: BSMA5973.i
Client ID: CV0748PP-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

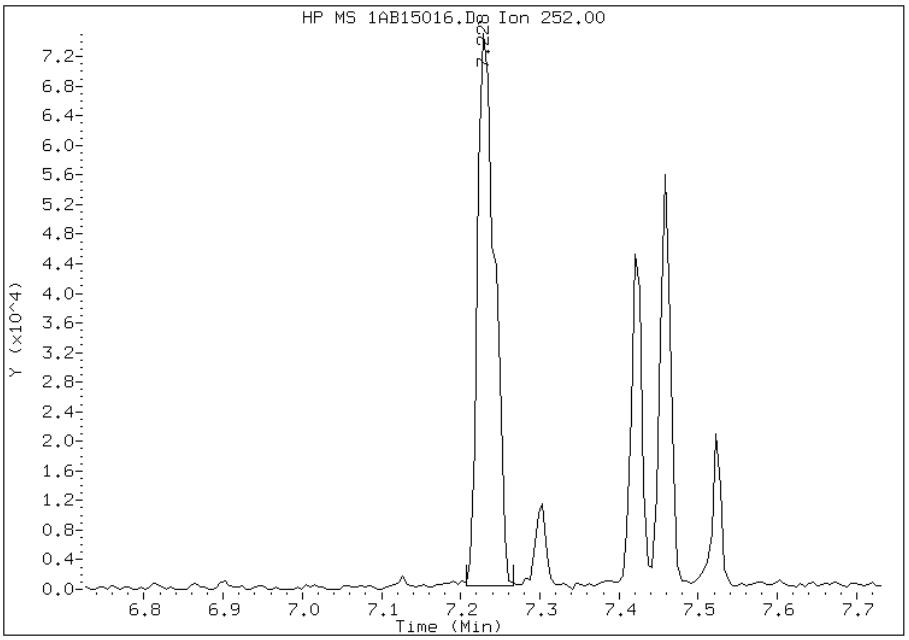
Processing Integration Results

RT: 7.23

Response: 111362

Amount: 6

Conc: 381



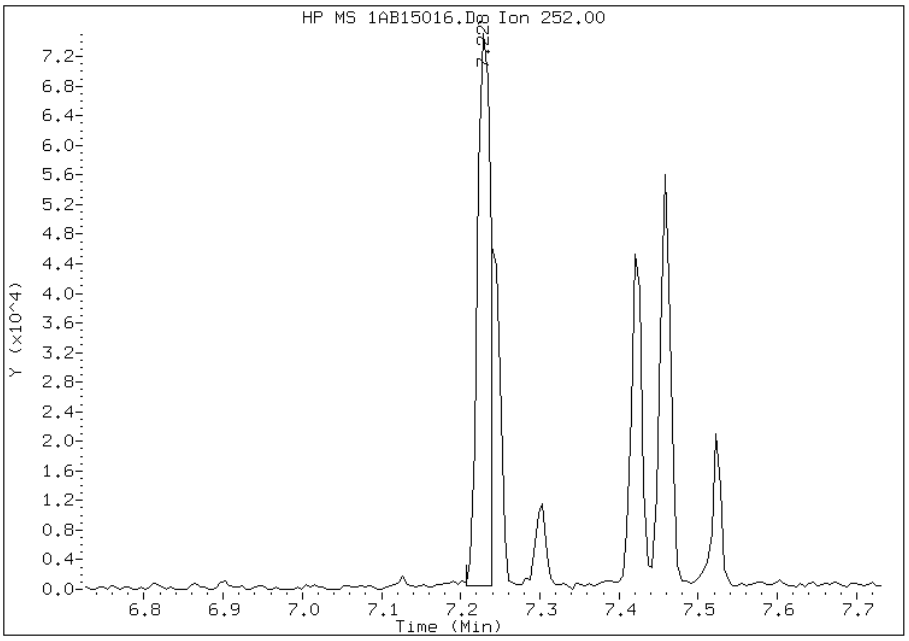
Manual Integration Results

RT: 7.23

Response: 85914

Amount: 4

Conc: 294



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:18
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15016.D
Inj. Date and Time: 15-FEB-2013 17:52
Instrument ID: BSMA5973.i
Client ID: CV0748PP-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

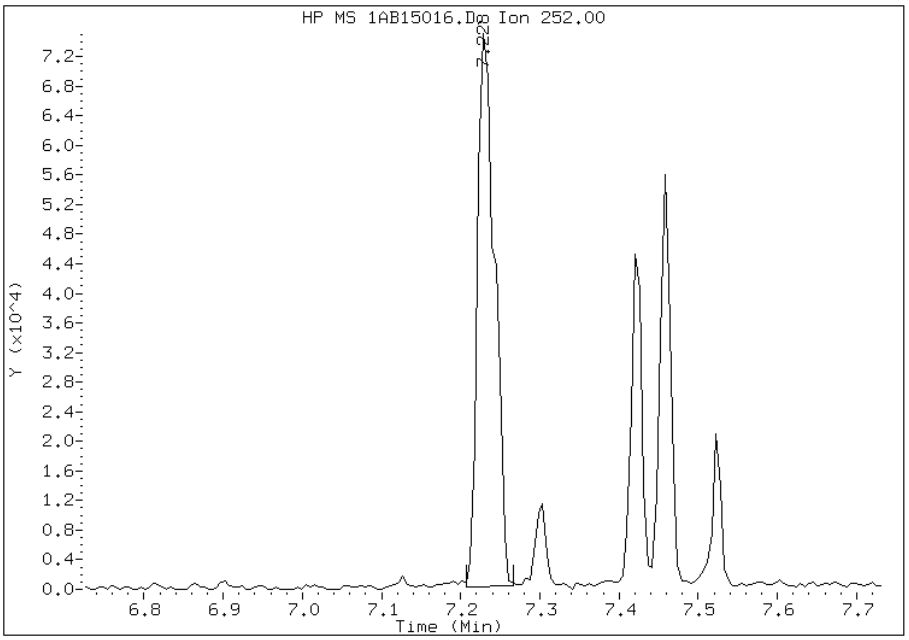
Processing Integration Results

RT: 7.23

Response: 111720

Amount: 5

Conc: 365



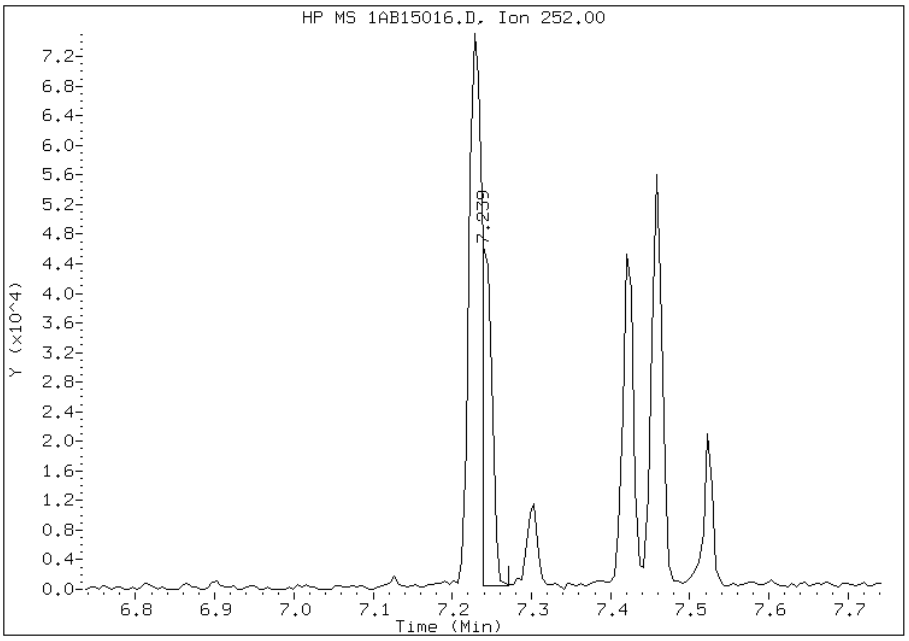
Manual Integration Results

RT: 7.24

Response: 40362

Amount: 2

Conc: 132



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15016.D
Inj. Date and Time: 15-FEB-2013 17:52
Instrument ID: BSMA5973.i
Client ID: CV0748PP-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

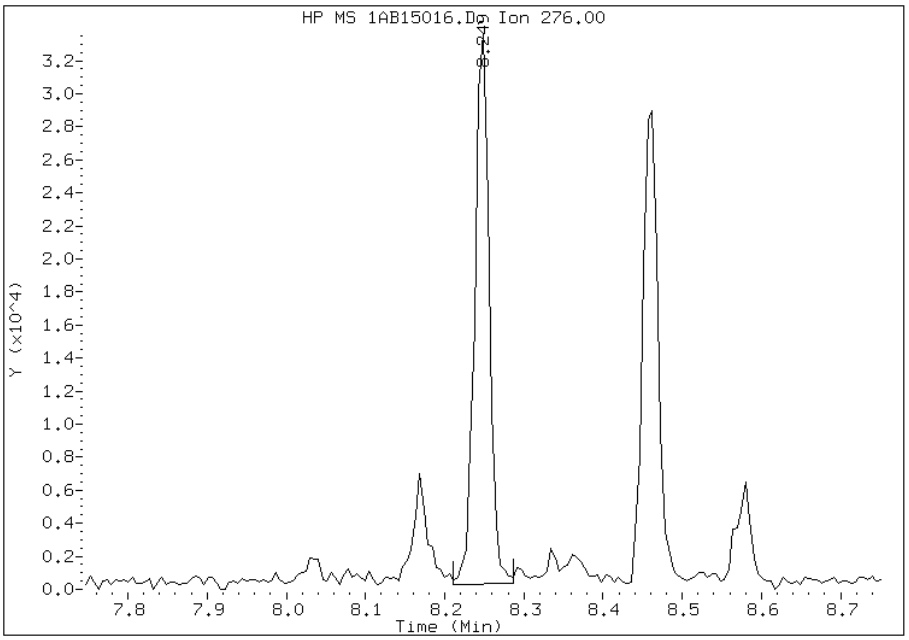
Processing Integration Results

RT: 8.25

Response: 42086

Amount: 3

Conc: 192



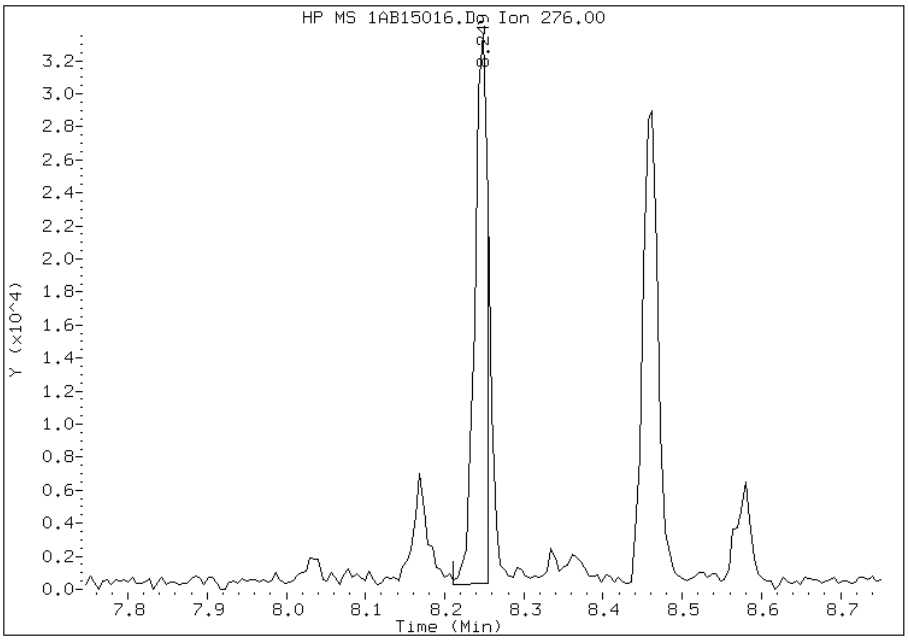
Manual Integration Results

RT: 8.25

Response: 36659

Amount: 2

Conc: 167



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:18
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87279-1 Analy Batch No.: 133924

SDG No.: 68087279-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133924/4	1AA30004.D
Level 2	IC 660-133924/5	1AA30005.D
Level 3	IC 660-133924/6	1AA30006.D
Level 4	IC 660-133924/7	1AA30007.D
Level 5	ICIS 660-133924/3	1AA30003.D
Level 6	IC 660-133924/8	1AA30008.D
Level 7	IC 660-133924/9	1AA30009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.8691 1.0049	0.9779 0.9900	0.9957	0.9868	0.9720	Ave		0.9709			0.0000	4.8		15.0			
2-Methylnaphthalene	0.4405 0.5310	0.5425 0.5229	0.5533	0.5344	0.5162	Ave		0.5201			0.0000	7.1		15.0			
1-Methylnaphthalene	0.5799 0.5720	0.6359 0.5649	0.5884	0.6038	0.5766	Ave		0.5888			0.0000	4.1		15.0			
Acenaphthylene	1.8063 1.7961	1.7485 1.7517	1.7336	1.7759	1.7513	Ave		1.7662			0.0000	1.5		15.0			
Acenaphthene	0.8363 0.9749	1.0408 0.9370	0.9784	0.9922	0.9321	Ave		0.9559			0.0000	6.7		15.0			
Fluorene	1.2093 1.2053	1.1827 1.1841	1.2172	1.2123	1.2033	Ave		1.2020			0.0000	1.1		15.0			
Phenanthrene	1.1514 1.0704	1.1299 1.0364	1.1042	1.0910	1.0619	Ave		1.0922			0.0000	3.7		15.0			
Anthracene	1.1112 1.0910	1.1548 1.0728	1.1460	1.1218	1.0971	Ave		1.1135			0.0000	2.7		15.0			
Carbazole	0.9544 0.9635	0.9474 0.9325	0.9805	0.9504	0.9530	Ave		0.9545			0.0000	1.5		15.0			
Fluoranthene	1.0706 1.0987	1.0941 1.0549	1.0898	1.1074	1.0642	Ave		1.0828			0.0000	1.8		15.0			
Pyrene	1.4604 1.4486	1.4735 1.4287	1.4495	1.4522	1.3994	Ave		1.4446			0.0000	1.7		15.0			
Benzo[a]anthracene	1.8736 1.2185	1.3140 1.1887	1.2043	1.2254	1.1641	LinF		1.1943			0.0000				0.9996		0.9900
Chrysene	1.2214 1.1280	1.2208 1.1199	1.1854	1.1445	1.1290	Ave		1.1642			0.0000	3.8		15.0			
Benzo[b]fluoranthene	0.8835 1.1569	1.1859 1.1686	1.0690	1.1835	1.1674	Ave		1.1164			0.0000	9.9		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87279-1 Analy Batch No.: 133924

SDG No.: 68087279-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.3342 1.1629	1.1471 1.0500	1.2419	1.1682	1.0664	Ave		1.1672			0.0000	8.4		15.0			
Benzo[a]pyrene	1.0378 1.0773	1.0634 1.0590	1.0649	1.0975	1.0213	Ave		1.0602			0.0000	2.4		15.0			
Indeno[1,2,3-cd]pyrene	0.7463 0.8627	0.8312 0.8416	0.8499	0.8359	0.8924	Ave		0.8371			0.0000	5.4		15.0			
Dibenz(a,h)anthracene	0.8535 0.8371	0.8458 0.8214	0.8193	0.8495	0.8317	Ave		0.8369			0.0000	1.6		15.0			
Benzo[g,h,i]perylene	0.8260 0.8801	0.8693 0.8717	0.8470	0.8981	0.8787	Ave		0.8673			0.0000	2.7		15.0			
o-Terphenyl	0.6160 0.5745	0.5755 0.5632	0.5719	0.5995	0.5679	Ave		0.5812			0.0000	3.3		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87279-1 Analy Batch No.: 133924

SDG No.: 68087279-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133924/4	1AA30004.D
Level 2	IC 660-133924/5	1AA30005.D
Level 3	IC 660-133924/6	1AA30006.D
Level 4	IC 660-133924/7	1AA30007.D
Level 5	ICIS 660-133924/3	1AA30003.D
Level 6	IC 660-133924/8	1AA30008.D
Level 7	IC 660-133924/9	1AA30009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	6607 931156	30367 1392262	157606	301178	659441	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	3349 492071	16848 735363	87583	163104	350225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	4409 530019	19749 794373	93134	184298	391143	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	8115 932857	32040 1380232	163466	310278	673599	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	3757 506350	19071 738267	92259	173347	358522	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5433 626008	21671 932971	114770	211811	462830	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	7708 845549	30365 1235274	153087	280076	620739	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	7439 861847	31036 1278708	158879	287973	641280	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	6389 761082	25461 1111447	135929	243964	557093	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	7167 867897	29405 1257334	151084	284287	622099	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	7924 909822	32526 1318254	165790	301919	659745	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	10166 765266	29004 1096876	137745	254775	548828	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	6627 708484	26947 1033398	135587	237952	532301	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	4560 708379	25297 1080002	117636	238908	520719	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	6886 712080	24469 970372	136662	235819	475653	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87279-1 Analy Batch No.: 133924

SDG No.: 68087279-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	5356 659672	22683 978664	117182	221540	455561	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	3852 528224	17731 777793	93523	168724	398038	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	4405 512548	18042 759088	90159	171475	370987	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4263 538912	18543 805634	93202	181282	391957	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	4124 453816	15467 671289	79289	153886	331984	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30003.D
Lab Smp Id: ICIS-1489898
Inj Date : 30-JAN-2013 11:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.508	2.508	(1.000)	1356829	40.0000	
* 6 Acenaphthene-d10	164	3.539	3.539	(1.000)	769245	40.0000	
* 10 Phenanthrene-d10	188	4.501	4.501	(1.000)	1169097	40.0000	
$ 14 o-Terphenyl	230	4.779	4.779	(1.062)	331984	20.0000	19.5427
* 18 Chrysene-d12	240	6.536	6.536	(1.000)	942927	40.0000	
* 23 Perylene-d12	264	7.637	7.637	(1.000)	892108	40.0000	
2 Naphthalene	128	2.519	2.519	(1.004)	659441	20.0000	20.0234
3 2-Methylnaphthalene	141	2.925	2.925	(1.166)	350225	20.0000	19.8505
4 1-Methylnaphthalene	142	2.978	2.978	(1.187)	391143	20.0000	19.5846
5 Acenaphthylene	152	3.454	3.454	(0.976)	673599	20.0000	19.8314
7 Acenaphthene	154	3.555	3.555	(1.005)	358522	20.0000	19.5019
9 Fluorene	166	3.871	3.871	(1.094)	462830	20.0000	20.0218
11 Phenanthrene	178	4.517	4.517	(1.004)	620739	20.0000	19.4458
12 Anthracene	178	4.549	4.549	(1.011)	641280	20.0000	19.7039
13 Carbazole	167	4.704	4.704	(1.045)	557093	20.0000	19.9690
15 Fluoranthene	202	5.388	5.388	(1.197)	622099	20.0000	19.6567
16 Pyrene	202	5.559	5.559	(0.850)	659745	20.0000	19.3736
17 Benzo(a)anthracene	228	6.531	6.531	(0.999)	548828	20.0000	19.4934
19 Chrysene	228	6.558	6.558	(1.003)	532301	20.0000	19.3967
20 Benzo(b)fluoranthene	252	7.359	7.359	(0.964)	520719	20.0000	20.9132
21 Benzo(k)fluoranthene	252	7.380	7.380	(0.966)	475653	20.0000	18.2713
22 Benzo(a)pyrene	252	7.594	7.594	(0.994)	455561	20.0000	19.2671
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.427	(1.104)	398038	20.0000	21.3193(M)
25 Dibenzo(a,h)anthracene	278	8.443	8.443	(1.106)	370987	20.0000	19.8762
26 Benzo(g,h,i)perylene	276	8.657	8.657	(1.134)	391957	20.0000	20.2641

QC Flag Legend

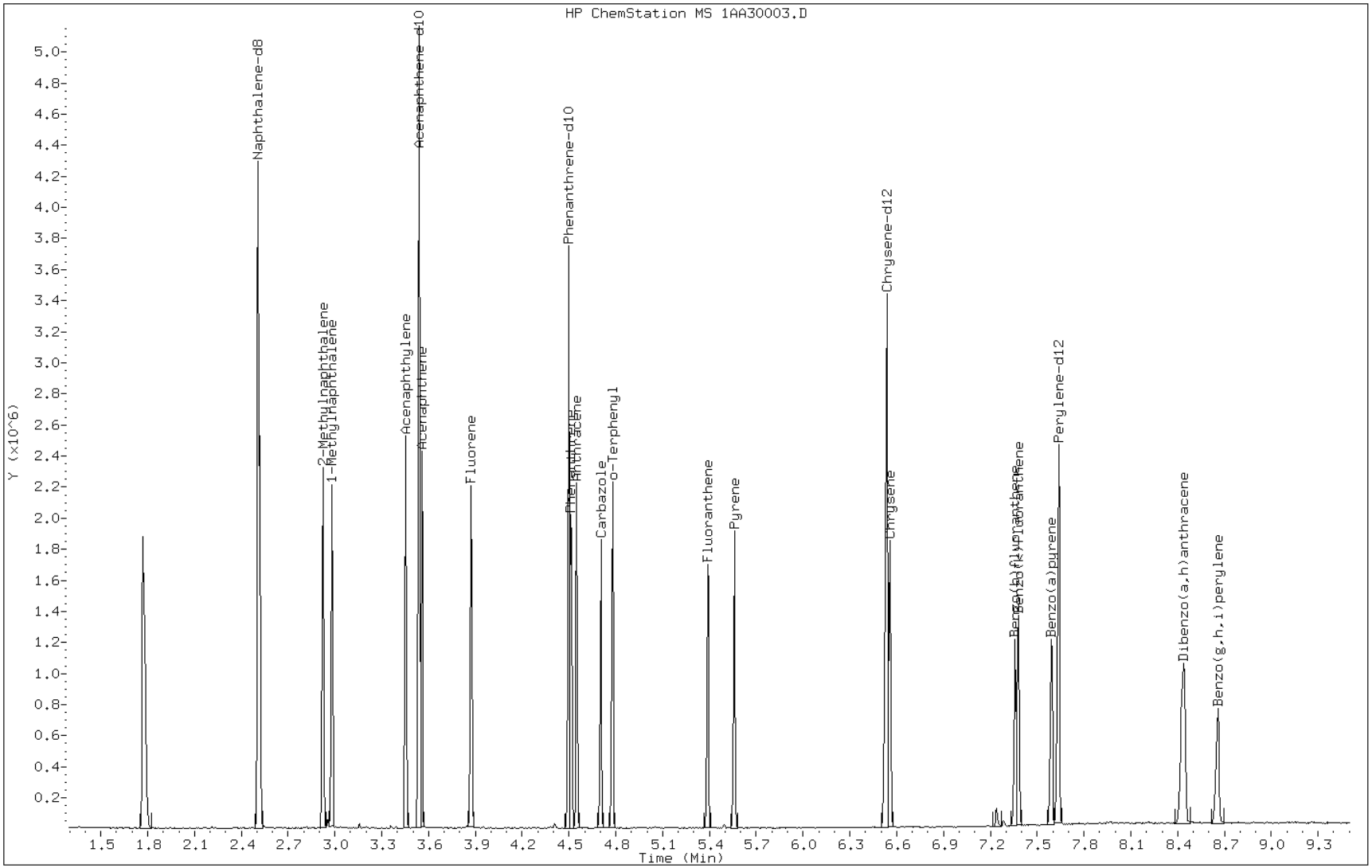
M - Compound response manually integrated.

Data File: 1AA30003.D

Date: 30-JAN-2013 11:38

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1AA30003.D
Inj. Date and Time: 30-JAN-2013 11:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

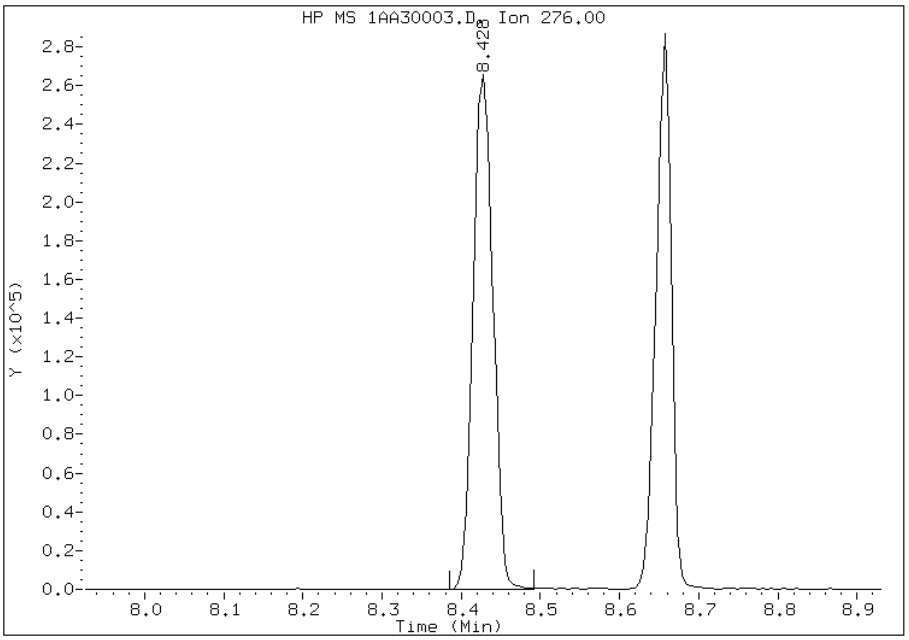
Processing Integration Results

RT: 8.43

Response: 458405

Amount: 22

Conc: 22



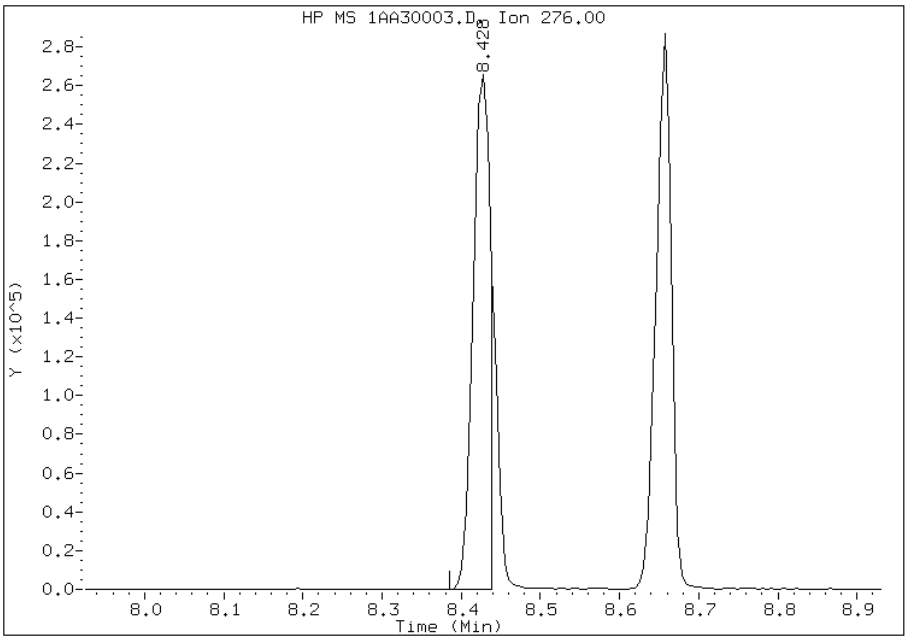
Manual Integration Results

RT: 8.43

Response: 398038

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 12:17
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30004.D
Lab Smp Id: IC-1489894
Inj Date : 30-JAN-2013 12:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 11:38 Cal File: 1AA30003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.508	2.508	(1.000)	1520482	40.0000	
* 6 Acenaphthene-d10	164	3.539	3.539	(1.000)	898530	40.0000	
* 10 Phenanthrene-d10	188	4.501	4.501	(1.000)	1338880	40.0000	
$ 14 o-Terphenyl	230	4.779	4.779	(1.062)	4124	0.20000	0.2119
* 18 Chrysene-d12	240	6.536	6.536	(1.000)	1085169	40.0000	
* 23 Perylene-d12	264	7.647	7.637	(1.000)	1032233	40.0000	
2 Naphthalene	128	2.519	2.519	(1.004)	6607	0.20000	0.1790
3 2-Methylnaphthalene	141	2.925	2.925	(1.166)	3349	0.20000	0.1693
4 1-Methylnaphthalene	142	2.978	2.978	(1.187)	4409	0.20000	0.1969
5 Acenaphthylene	152	3.454	3.454	(0.976)	8115	0.20000	0.2045
7 Acenaphthene	154	3.555	3.555	(1.005)	3757	0.20000	0.1749
9 Fluorene	166	3.870	3.871	(1.094)	5433	0.20000	0.2012
11 Phenanthrene	178	4.512	4.517	(1.002)	7708	0.20000	0.2108(M)
12 Anthracene	178	4.549	4.549	(1.011)	7439	0.20000	0.1995
13 Carbazole	167	4.704	4.704	(1.045)	6389	0.20000	0.1999
15 Fluoranthene	202	5.388	5.388	(1.197)	7167	0.20000	0.1977
16 Pyrene	202	5.559	5.559	(0.850)	7924	0.20000	0.2021
17 Benzo(a)anthracene	228	6.531	6.531	(0.999)	10166	0.20000	0.3137
19 Chrysene	228	6.552	6.558	(1.002)	6627	0.20000	0.2098
20 Benzo(b)fluoranthene	252	7.359	7.359	(0.962)	4560	0.20000	0.1582(H)
21 Benzo(k)fluoranthene	252	7.375	7.380	(0.964)	6886	0.20000	0.2286
22 Benzo(a)pyrene	252	7.594	7.594	(0.993)	5356	0.20000	0.1957
24 Indeno(1,2,3-cd)pyrene	276	8.433	8.427	(1.103)	3852	0.20000	0.1783(M)
25 Dibenzo(a,h)anthracene	278	8.443	8.443	(1.104)	4405	0.20000	0.2039
26 Benzo(g,h,i)perylene	276	8.657	8.657	(1.132)	4263	0.20000	0.1904

QC Flag Legend

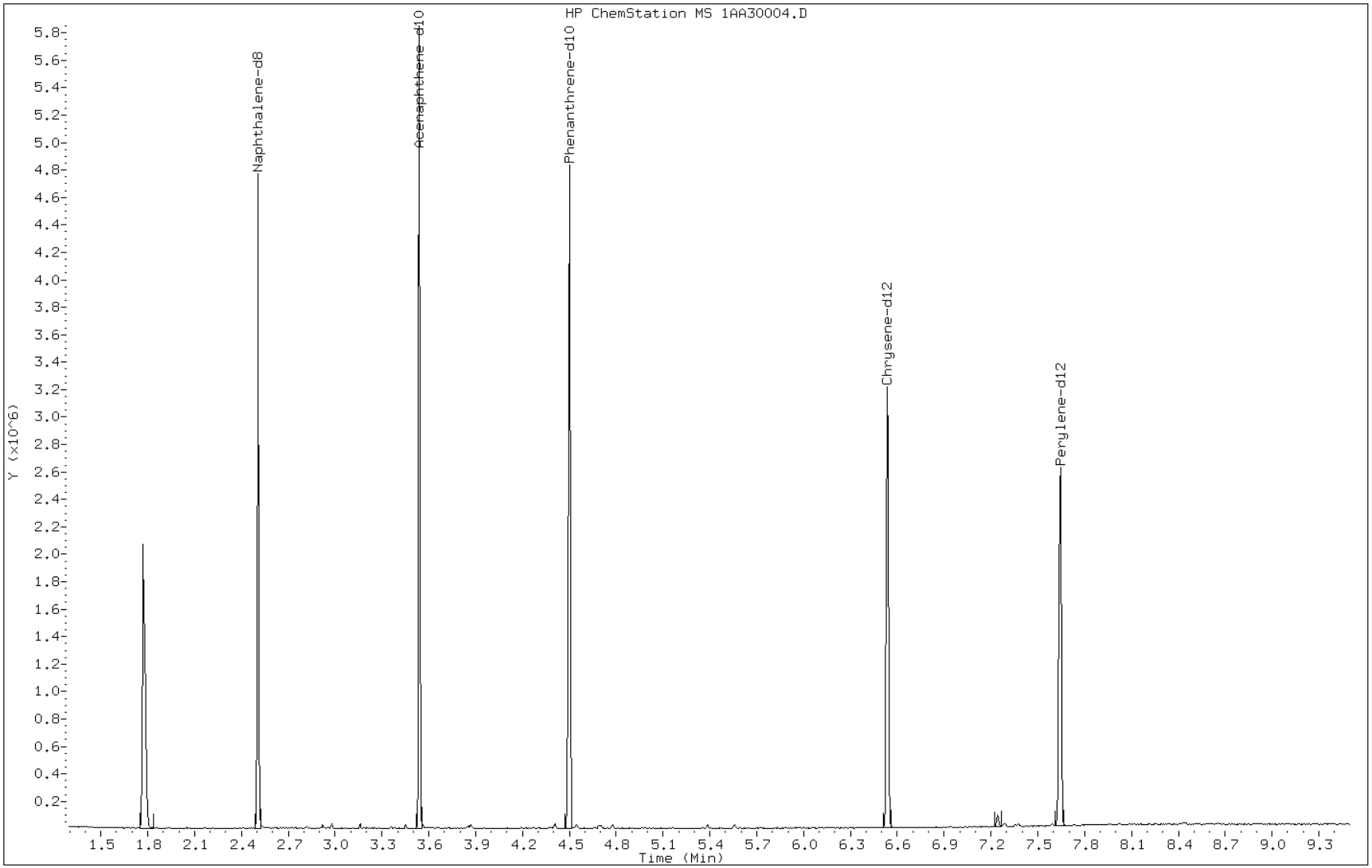
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AA30004.D

Date: 30-JAN-2013 12:04

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1AA30004.D
Inj. Date and Time: 30-JAN-2013 12:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 11 Phenanthrene
CAS #: 85-01-8
Report Date: 01/30/2013

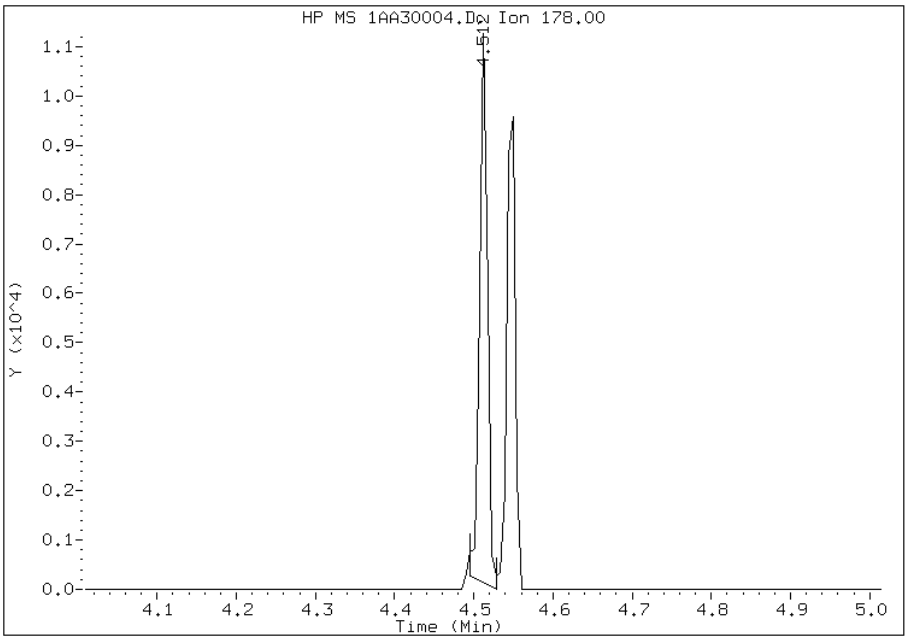
Processing Integration Results

RT: 4.51

Response: 7417

Amount: 0

Conc: 0



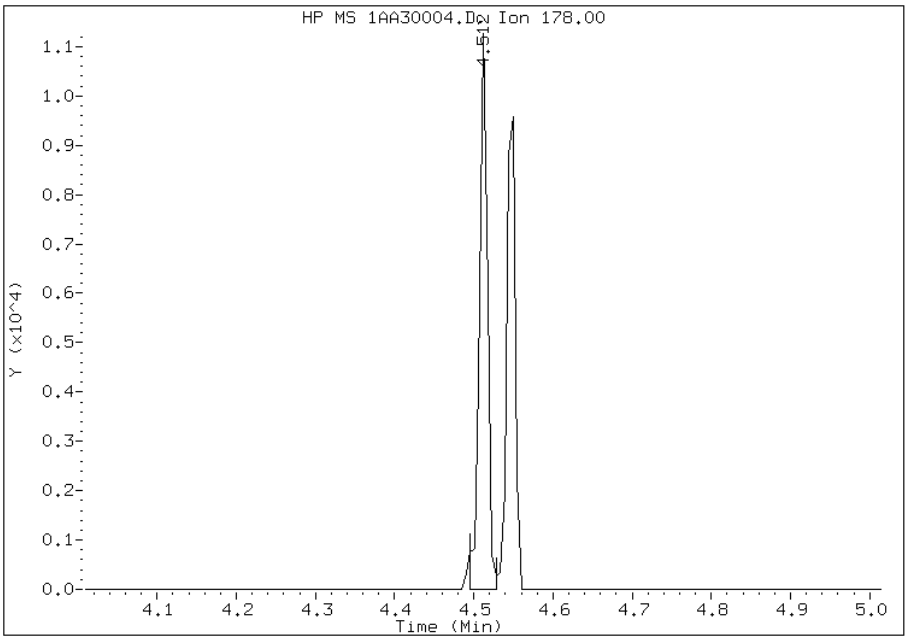
Manual Integration Results

RT: 4.51

Response: 7708

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AA30004.D
Inj. Date and Time: 30-JAN-2013 12:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

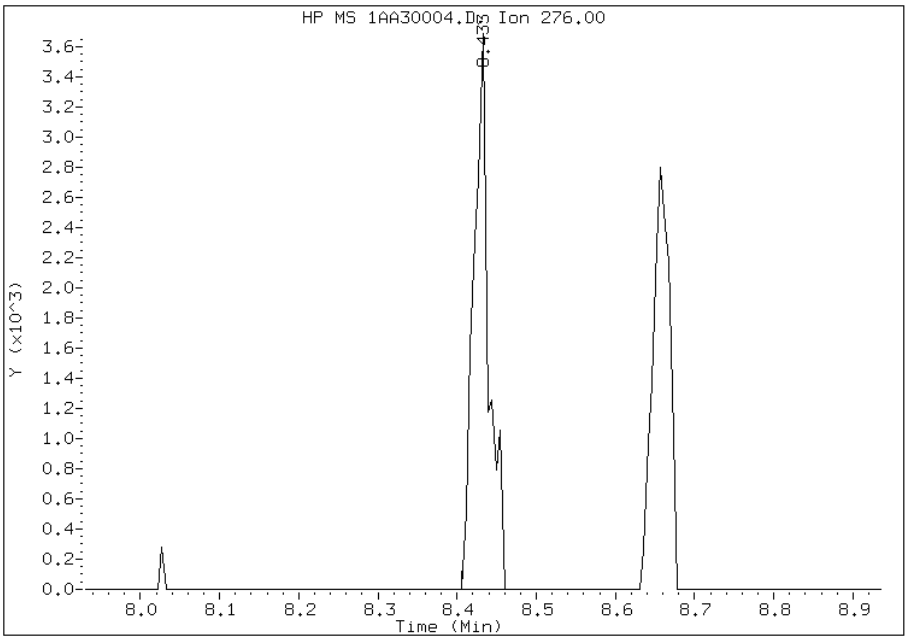
Processing Integration Results

RT: 8.43

Response: 4847

Amount: 0

Conc: 0



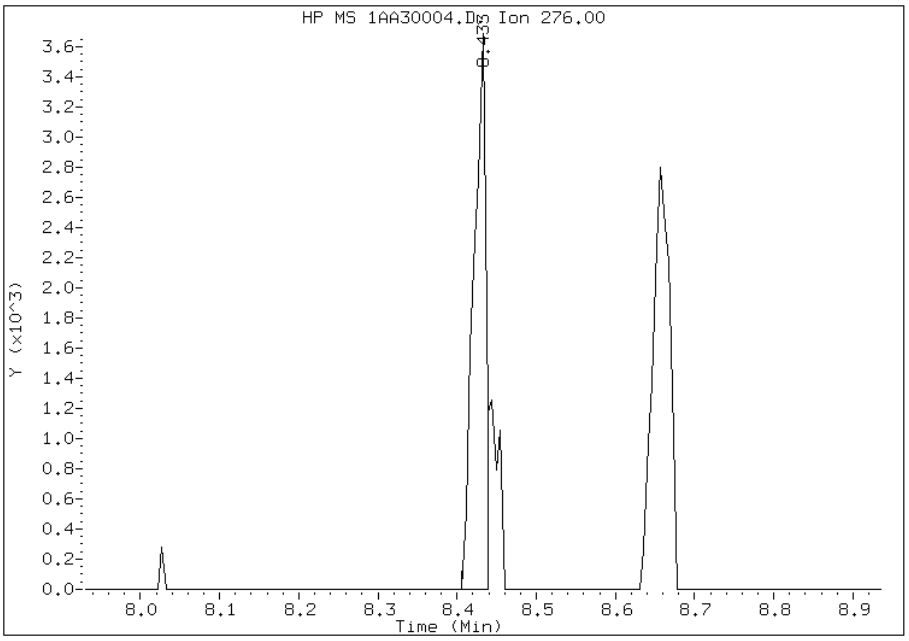
Manual Integration Results

RT: 8.43

Response: 3852

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:28
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30005.D
Lab Smp Id: IC-1489895
Inj Date : 30-JAN-2013 12:19
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:04 Cal File: 1AA30004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.505	2.508	(1.000)	1242193	40.0000	
* 6 Acenaphthene-d10	164	3.536	3.539	(1.000)	732960	40.0000	
* 10 Phenanthrene-d10	188	4.498	4.501	(1.000)	1075002	40.0000	
$ 14 o-Terphenyl	230	4.776	4.779	(1.062)	15467	1.00000	0.9901
* 18 Chrysene-d12	240	6.533	6.536	(1.000)	882947	40.0000	
* 23 Perylene-d12	264	7.634	7.637	(1.000)	853244	40.0000	
2 Naphthalene	128	2.516	2.519	(1.004)	30367	1.00000	1.0071
3 2-Methylnaphthalene	141	2.922	2.925	(1.166)	16848	1.00000	1.0430
4 1-Methylnaphthalene	142	2.976	2.978	(1.188)	19749	1.00000	1.0800
5 Acenaphthylene	152	3.451	3.454	(0.976)	32040	1.00000	0.9899
7 Acenaphthene	154	3.552	3.555	(1.005)	19071	1.00000	1.0887
9 Fluorene	166	3.868	3.871	(1.094)	21671	1.00000	0.9838
11 Phenanthrene	178	4.509	4.517	(1.002)	30365	1.00000	1.0345
12 Anthracene	178	4.546	4.549	(1.011)	31036	1.00000	1.0370
13 Carbazole	167	4.701	4.704	(1.045)	25461	1.00000	0.9925
15 Fluoranthene	202	5.385	5.388	(1.197)	29405	1.00000	1.0104
16 Pyrene	202	5.556	5.559	(0.850)	32526	1.00000	1.0200
17 Benzo(a)anthracene	228	6.523	6.531	(0.998)	29004	1.00000	1.1001
19 Chrysene	228	6.549	6.558	(1.002)	26947	1.00000	1.0486
20 Benzo(b)fluoranthene	252	7.351	7.359	(0.963)	25297	1.00000	1.0622
21 Benzo(k)fluoranthene	252	7.372	7.380	(0.966)	24469	1.00000	0.9827
22 Benzo(a)pyrene	252	7.586	7.594	(0.994)	22683	1.00000	1.0030
24 Indeno(1,2,3-cd)pyrene	276	8.408	8.427	(1.101)	17731	1.00000	0.9929(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.443	(1.104)	18042	1.00000	1.0106
26 Benzo(g,h,i)perylene	276	8.638	8.657	(1.132)	18543	1.00000	1.0023

QC Flag Legend

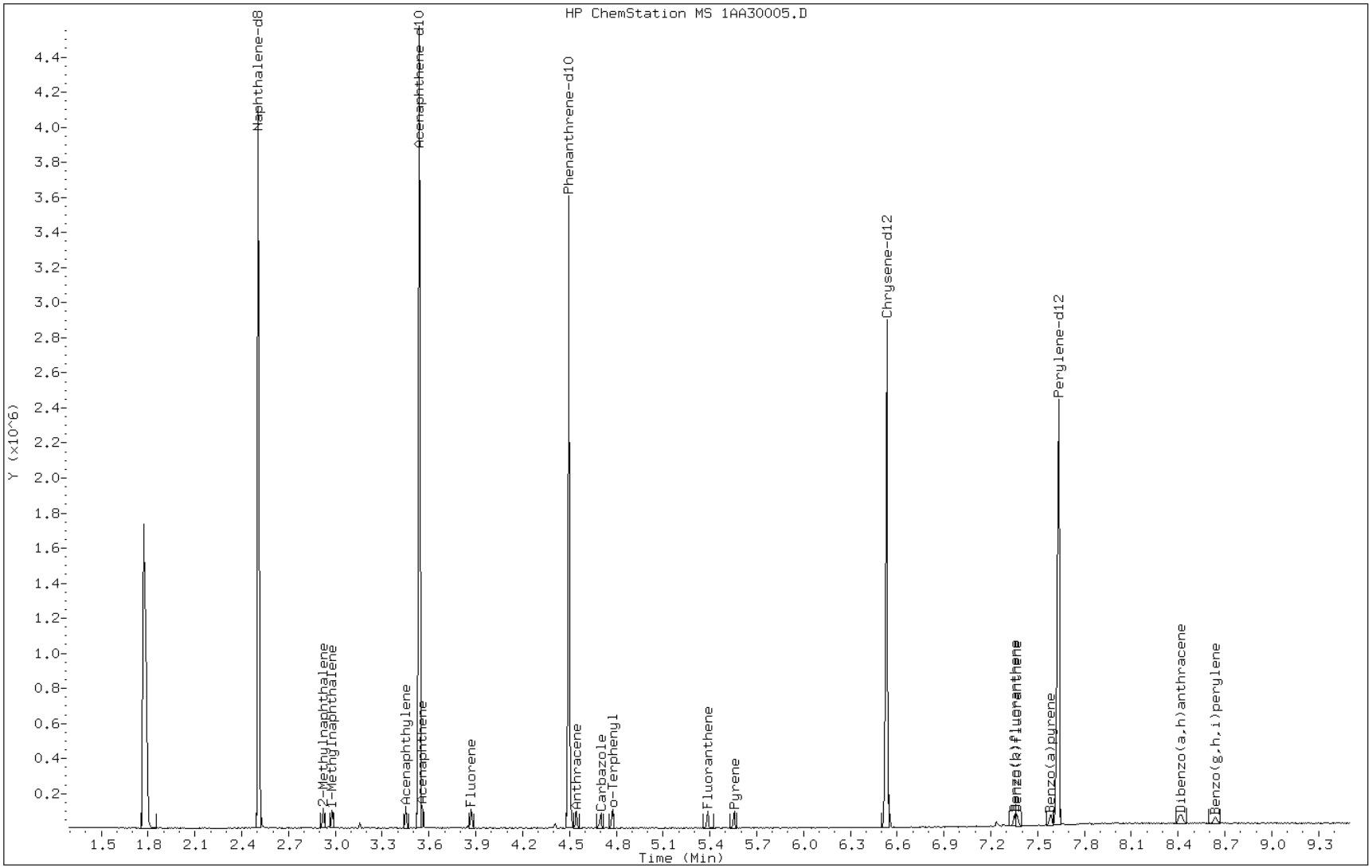
M - Compound response manually integrated.

Data File: 1AA30005.D

Date: 30-JAN-2013 12:19

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1AA30005.D
Inj. Date and Time: 30-JAN-2013 12:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

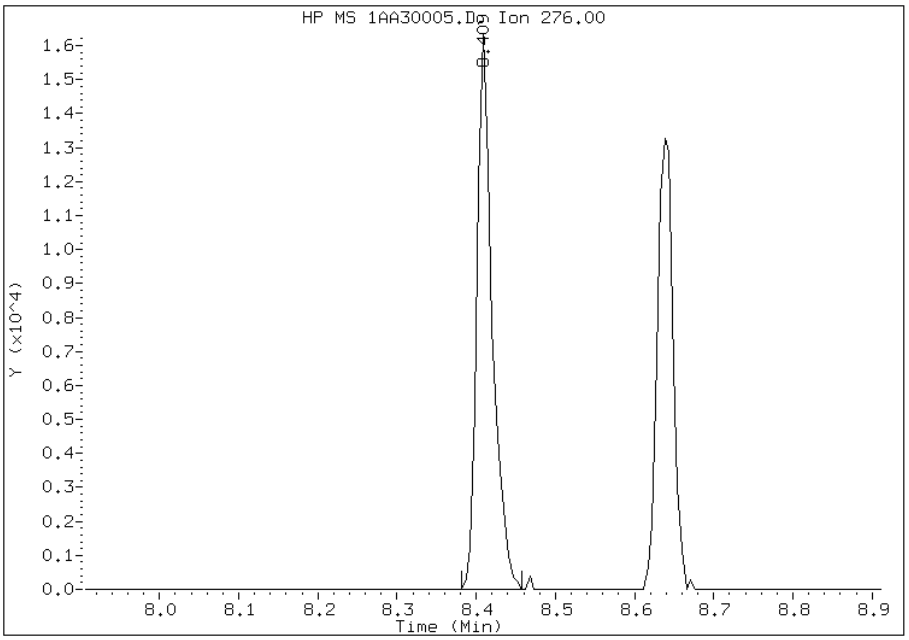
Processing Integration Results

RT: 8.41

Response: 21625

Amount: 1

Conc: 1



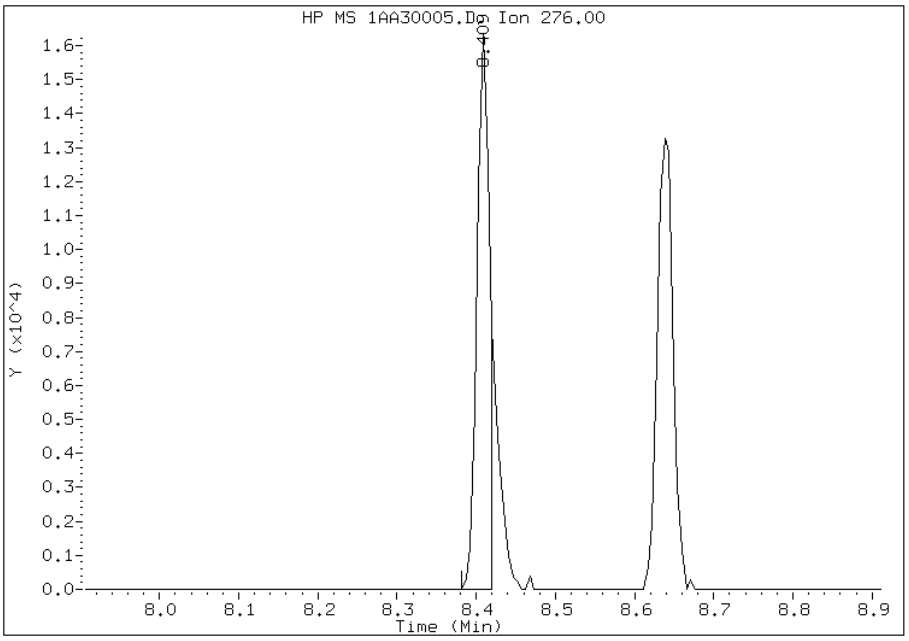
Manual Integration Results

RT: 8.41

Response: 17731

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30006.D
Lab Smp Id: IC-1489896
Inj Date : 30-JAN-2013 12:34
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:19 Cal File: 1AA30005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.509	2.508	(1.000)	1266331	40.0000	
* 6 Acenaphthene-d10	164	3.540	3.539	(1.000)	754333	40.0000	
* 10 Phenanthrene-d10	188	4.496	4.501	(1.000)	1109110	40.0000	
$ 14 o-Terphenyl	230	4.774	4.779	(1.062)	79289	5.00000	4.9199
* 18 Chrysene-d12	240	6.532	6.536	(1.000)	915040	40.0000	
* 23 Perylene-d12	264	7.632	7.637	(1.000)	880349	40.0000	
2 Naphthalene	128	2.520	2.519	(1.004)	157606	5.00000	5.1275
3 2-Methylnaphthalene	141	2.920	2.925	(1.164)	87583	5.00000	5.3189
4 1-Methylnaphthalene	142	2.979	2.978	(1.187)	93134	5.00000	4.9965
5 Acenaphthylene	152	3.455	3.454	(0.976)	163466	5.00000	4.9077
7 Acenaphthene	154	3.556	3.555	(1.005)	92259	5.00000	5.1176
9 Fluorene	166	3.871	3.871	(1.094)	114770	5.00000	5.0630
11 Phenanthrene	178	4.512	4.517	(1.004)	153087	5.00000	5.0551
12 Anthracene	178	4.544	4.549	(1.011)	158879	5.00000	5.1457
13 Carbazole	167	4.699	4.704	(1.045)	135929	5.00000	5.1359
15 Fluoranthene	202	5.383	5.388	(1.197)	151084	5.00000	5.0320
16 Pyrene	202	5.554	5.559	(0.850)	165790	5.00000	5.0168
17 Benzo(a)anthracene	228	6.526	6.531	(0.999)	137745	5.00000	5.0415
19 Chrysene	228	6.553	6.558	(1.003)	135587	5.00000	5.0912
20 Benzo(b)fluoranthene	252	7.354	7.359	(0.964)	117636	5.00000	4.7876
21 Benzo(k)fluoranthene	252	7.370	7.380	(0.966)	136662	5.00000	5.3197
22 Benzo(a)pyrene	252	7.584	7.594	(0.994)	117182	5.00000	5.0222
24 Indeno(1,2,3-cd)pyrene	276	8.412	8.427	(1.102)	93523	5.00000	5.0760(M)
25 Dibenzo(a,h)anthracene	278	8.428	8.443	(1.104)	90159	5.00000	4.8949
26 Benzo(g,h,i)perylene	276	8.642	8.657	(1.132)	93202	5.00000	4.8828

QC Flag Legend

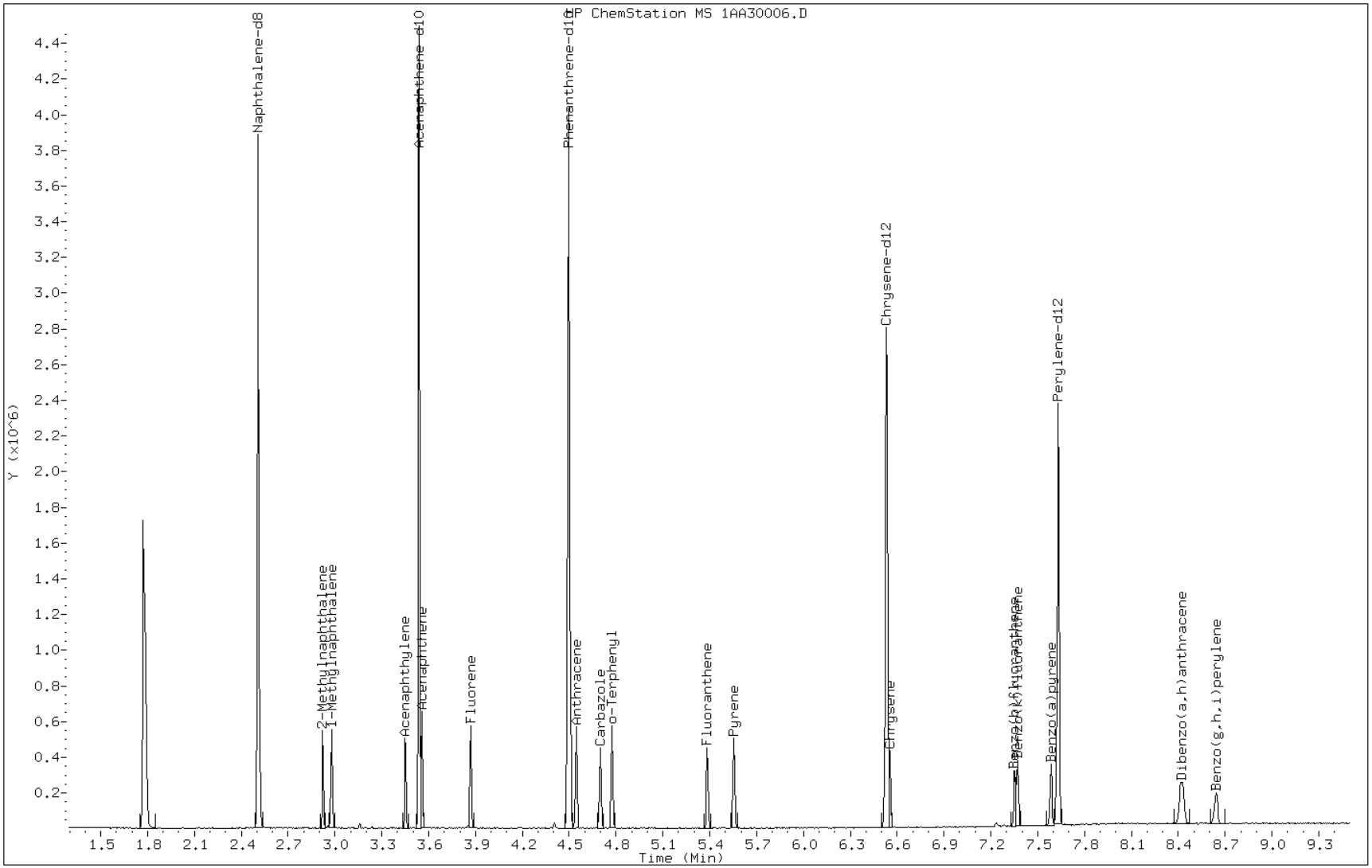
M - Compound response manually integrated.

Data File: 1AA30006.D

Date: 30-JAN-2013 12:34

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489896 Operator: SCC



Manual Integration Report

Data File: 1AA30006.D
Inj. Date and Time: 30-JAN-2013 12:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

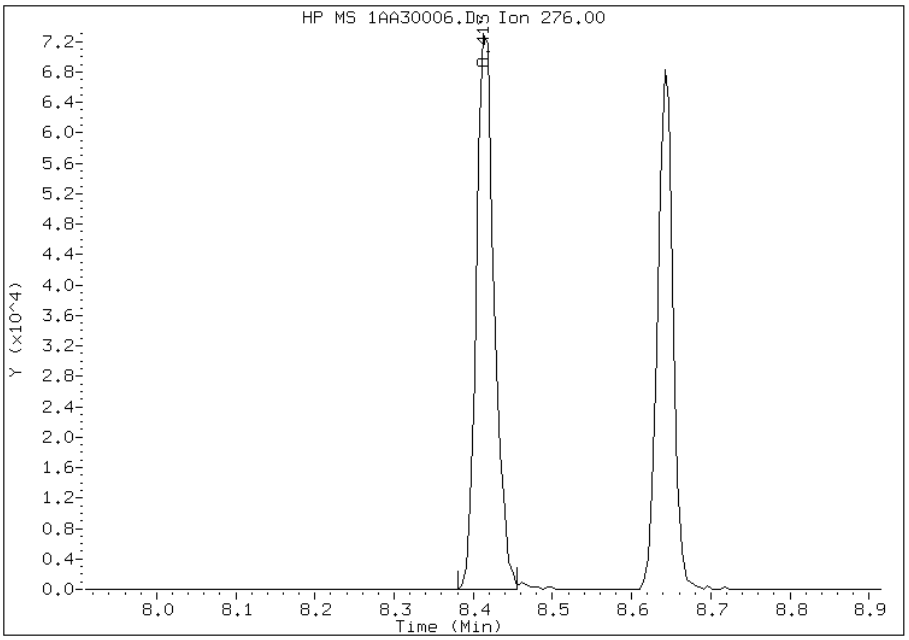
Processing Integration Results

RT: 8.41

Response: 113911

Amount: 5

Conc: 5



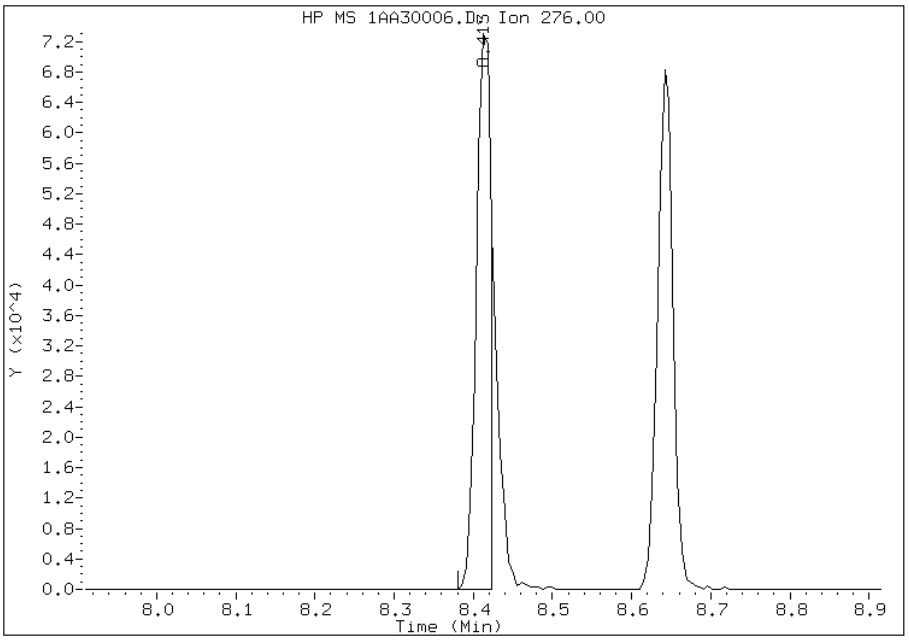
Manual Integration Results

RT: 8.41

Response: 93523

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30007.D
Lab Smp Id: IC-1489897
Inj Date : 30-JAN-2013 12:49
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:34 Cal File: 1AA30006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.506	2.508	(1.000)	1220847	40.0000	
* 6 Acenaphthene-d10	164	3.537	3.539	(1.000)	698867	40.0000	
* 10 Phenanthrene-d10	188	4.499	4.501	(1.000)	1026818	40.0000	
$ 14 o-Terphenyl	230	4.777	4.779	(1.062)	153886	10.0000	10.3139
* 18 Chrysene-d12	240	6.534	6.536	(1.000)	831641	40.0000	
* 23 Perylene-d12	264	7.635	7.637	(1.000)	807429	40.0000	
2 Naphthalene	128	2.517	2.519	(1.004)	301178	10.0000	10.1636
3 2-Methylnaphthalene	141	2.923	2.925	(1.166)	163104	10.0000	10.2743
4 1-Methylnaphthalene	142	2.976	2.978	(1.188)	184298	10.0000	10.2556
5 Acenaphthylene	152	3.452	3.454	(0.976)	310278	10.0000	10.0548
7 Acenaphthene	154	3.553	3.555	(1.005)	173347	10.0000	10.3788
9 Fluorene	166	3.868	3.871	(1.094)	211811	10.0000	10.0855
11 Phenanthrene	178	4.510	4.517	(1.002)	280076	10.0000	9.9896
12 Anthracene	178	4.547	4.549	(1.011)	287973	10.0000	10.0743
13 Carbazole	167	4.702	4.704	(1.045)	243964	10.0000	9.9566
15 Fluoranthene	202	5.386	5.388	(1.197)	284287	10.0000	10.2274
16 Pyrene	202	5.557	5.559	(0.850)	301919	10.0000	10.0523
17 Benzo(a)anthracene	228	6.524	6.531	(0.998)	254775	10.0000	10.2600
19 Chrysene	228	6.550	6.558	(1.002)	237952	10.0000	9.8311
20 Benzo(b)fluoranthene	252	7.352	7.359	(0.963)	238908	10.0000	10.6013
21 Benzo(k)fluoranthene	252	7.373	7.380	(0.966)	235819	10.0000	10.0085
22 Benzo(a)pyrene	252	7.581	7.594	(0.993)	221540	10.0000	10.3523
24 Indeno(1,2,3-cd)pyrene	276	8.415	8.427	(1.102)	168724	10.0000	9.9847(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.443	(1.104)	171475	10.0000	10.1505
26 Benzo(g,h,i)perylene	276	8.644	8.657	(1.132)	181282	10.0000	10.3551

QC Flag Legend

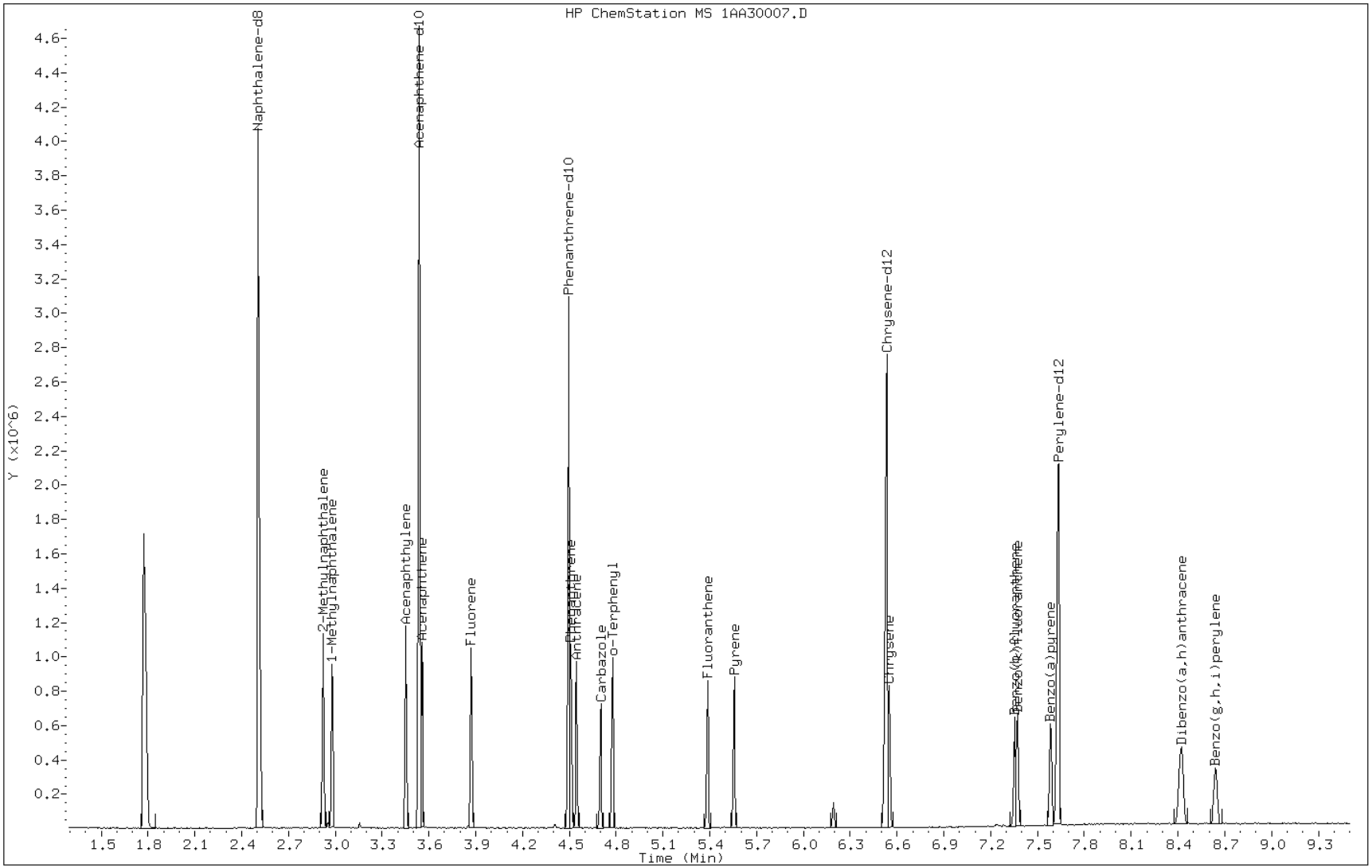
M - Compound response manually integrated.

Data File: 1AA30007.D

Date: 30-JAN-2013 12:49

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1AA30007.D
Inj. Date and Time: 30-JAN-2013 12:49
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

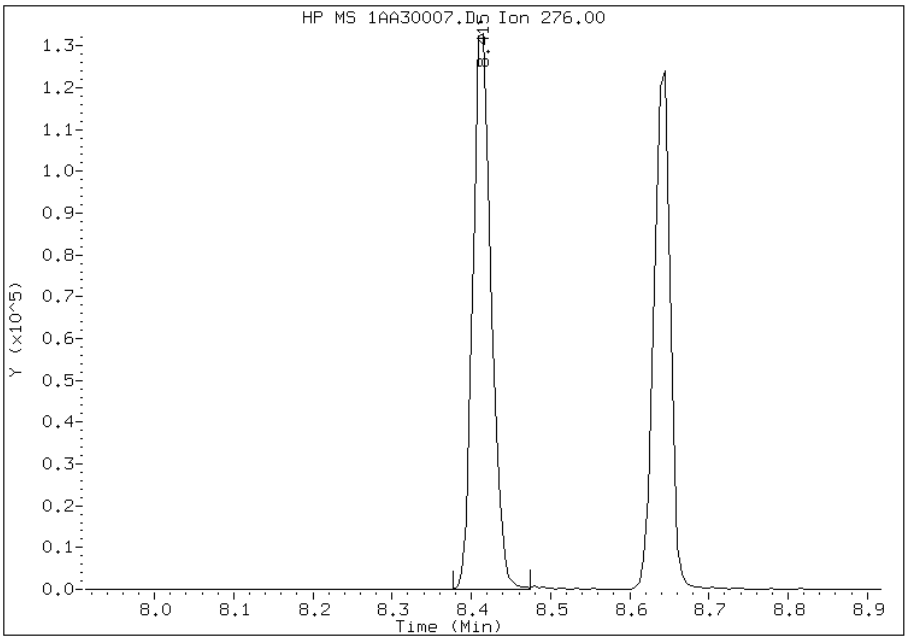
Processing Integration Results

RT: 8.42

Response: 213637

Amount: 11

Conc: 11



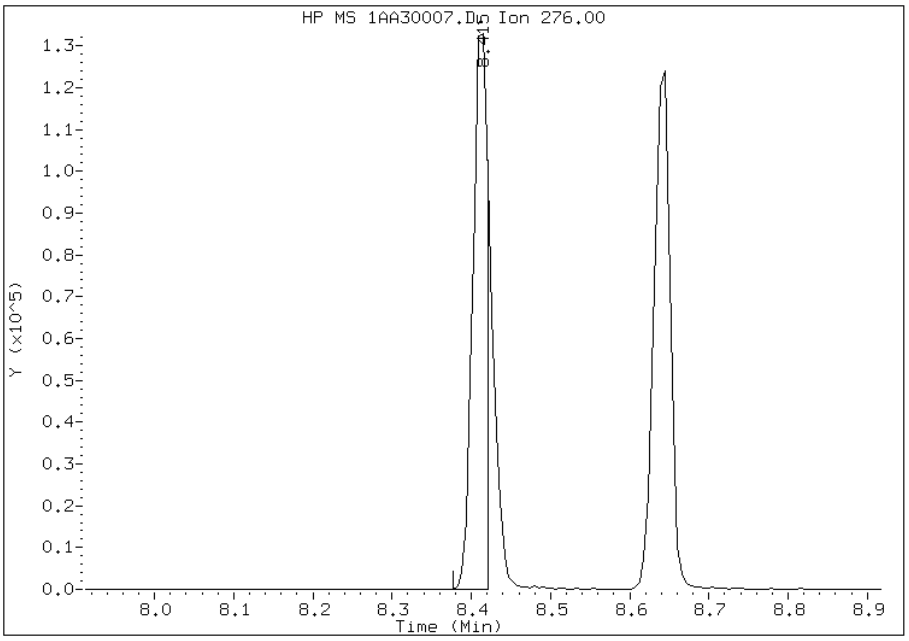
Manual Integration Results

RT: 8.42

Response: 168724

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30008.D
Lab Smp Id: IC-1489899
Inj Date : 30-JAN-2013 13:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:49 Cal File: 1AA30007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.506	2.508	(1.000)	1235536	40.0000	
* 6 Acenaphthene-d10	164	3.537	3.539	(1.000)	692518	40.0000	
* 10 Phenanthrene-d10	188	4.498	4.501	(1.000)	1053254	40.0000	
$ 14 o-Terphenyl	230	4.776	4.779	(1.062)	453816	30.0000	29.6527
* 18 Chrysene-d12	240	6.539	6.536	(1.000)	837416	40.0000	
* 23 Perylene-d12	264	7.634	7.637	(1.000)	816422	40.0000	
2 Naphthalene	128	2.522	2.519	(1.006)	931156	30.0000	31.0495
3 2-Methylnaphthalene	141	2.922	2.925	(1.166)	492071	30.0000	30.6282
4 1-Methylnaphthalene	142	2.981	2.978	(1.190)	530019	30.0000	29.1434
5 Acenaphthylene	152	3.456	3.454	(0.977)	932857	30.0000	30.5072
7 Acenaphthene	154	3.558	3.555	(1.006)	506350	30.0000	30.5946
9 Fluorene	166	3.873	3.871	(1.095)	626008	30.0000	30.0812
11 Phenanthrene	178	4.514	4.517	(1.004)	845549	30.0000	29.4018
12 Anthracene	178	4.546	4.549	(1.011)	861847	30.0000	29.3936
13 Carbazole	167	4.701	4.704	(1.045)	761082	30.0000	30.2815
15 Fluoranthene	202	5.390	5.388	(1.198)	867897	30.0000	30.4395
16 Pyrene	202	5.556	5.559	(0.850)	909822	30.0000	30.0834
17 Benzo(a)anthracene	228	6.528	6.531	(0.998)	765266	30.0000	30.6056
19 Chrysene	228	6.555	6.558	(1.002)	708484	30.0000	29.0695
20 Benzo(b)fluoranthene	252	7.356	7.359	(0.964)	708379	30.0000	31.0876
21 Benzo(k)fluoranthene	252	7.378	7.380	(0.966)	712080	30.0000	29.8890
22 Benzo(a)pyrene	252	7.591	7.594	(0.994)	659672	30.0000	30.4861
24 Indeno(1,2,3-cd)pyrene	276	8.419	8.427	(1.103)	528224	30.0000	30.9150(M)
25 Dibenzo(a,h)anthracene	278	8.435	8.443	(1.105)	512548	30.0000	30.0062
26 Benzo(g,h,i)perylene	276	8.654	8.657	(1.134)	538912	30.0000	30.4446

QC Flag Legend

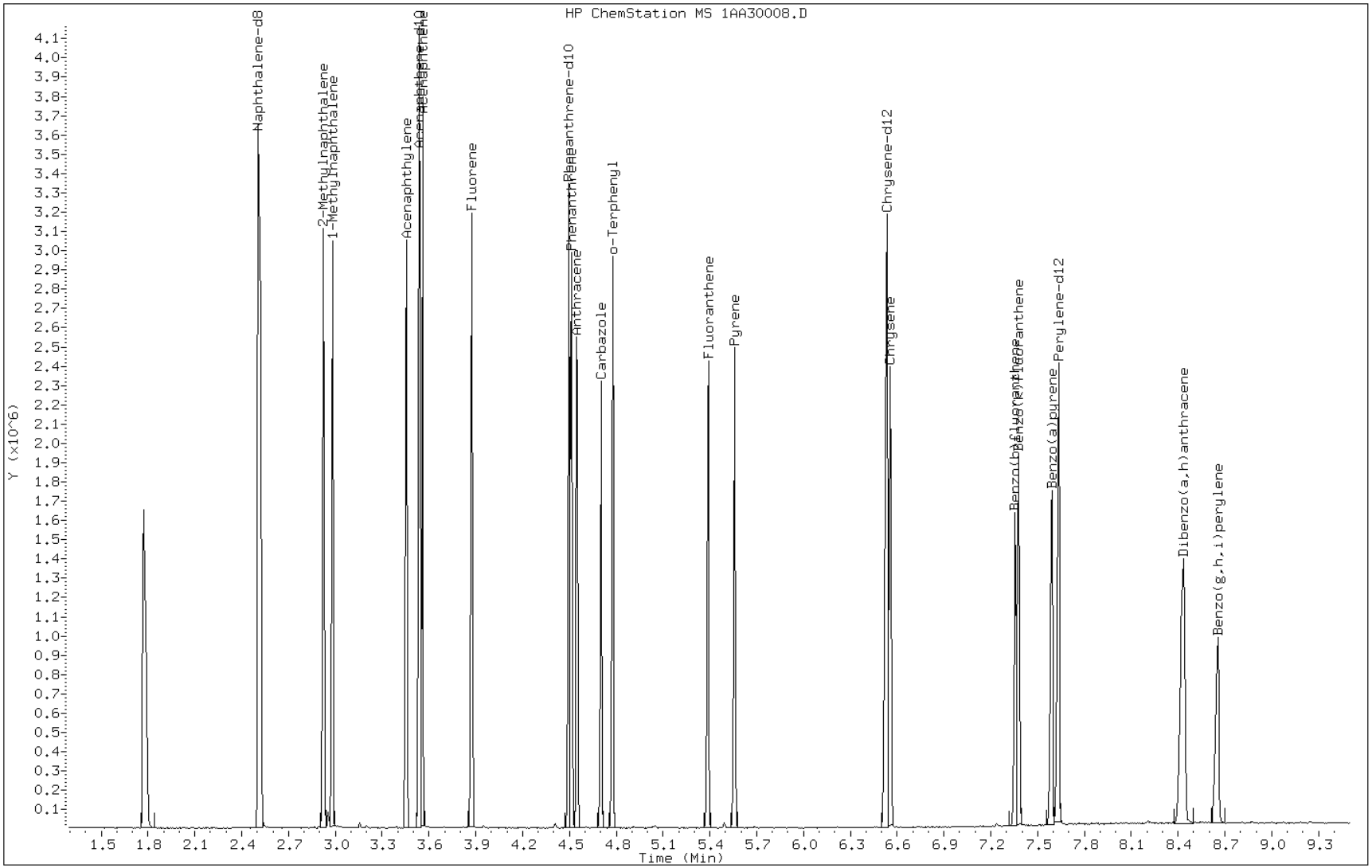
M - Compound response manually integrated.

Data File: 1AA30008.D

Date: 30-JAN-2013 13:04

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489899 Operator: SCC



Manual Integration Report

Data File: 1AA30008.D
Inj. Date and Time: 30-JAN-2013 13:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

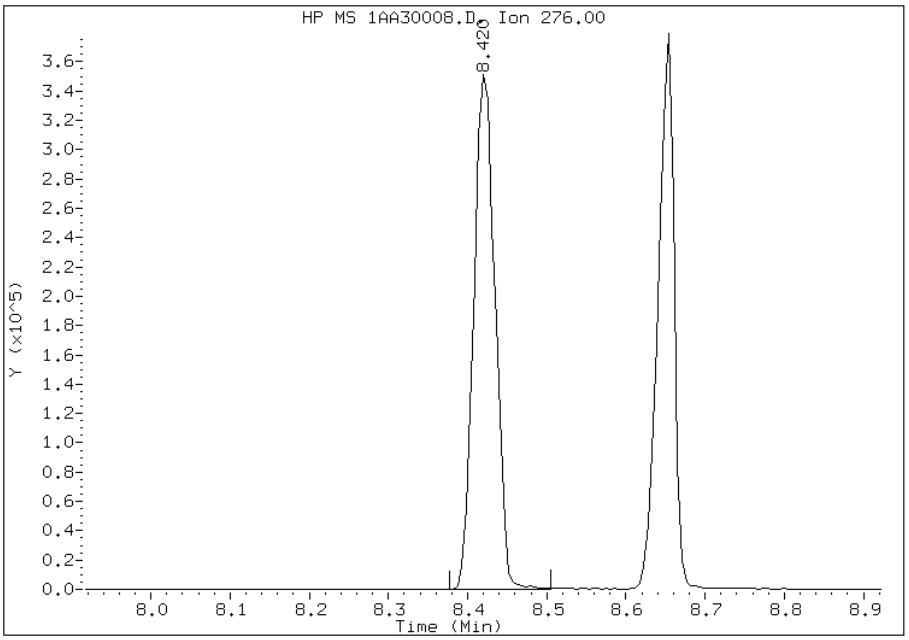
Processing Integration Results

RT: 8.42

Response: 649974

Amount: 32

Conc: 32



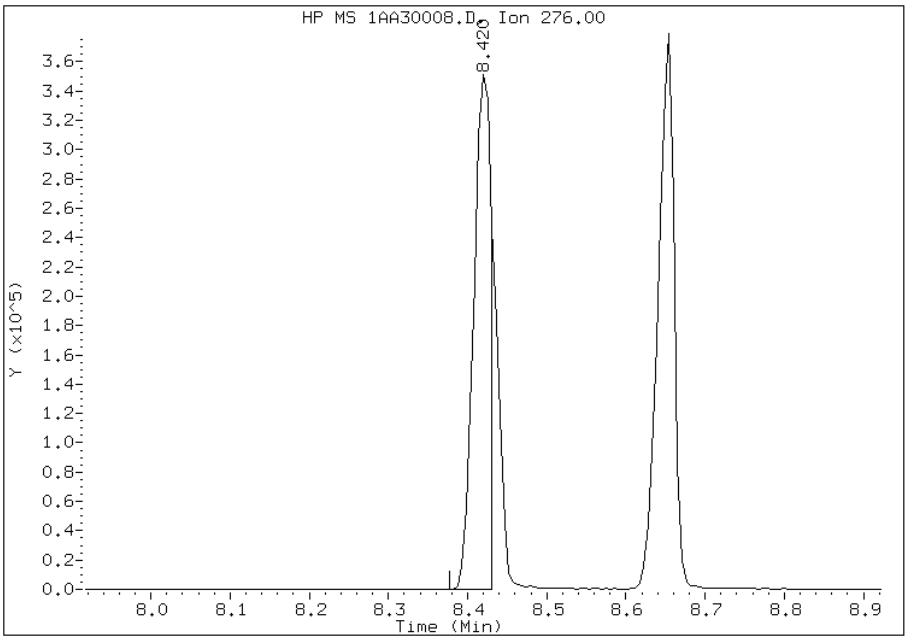
Manual Integration Results

RT: 8.42

Response: 528224

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30009.D
Lab Smp Id: IC-1489900
Inj Date : 30-JAN-2013 13:20
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 13:04 Cal File: 1AA30008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.510	2.508	(1.000)	1125072	40.0000	
* 6 Acenaphthene-d10	164	3.541	3.539	(1.000)	630343	40.0000	
* 10 Phenanthrene-d10	188	4.497	4.501	(1.000)	953549	40.0000	
$ 14 o-Terphenyl	230	4.781	4.779	(1.063)	671289	50.0000	48.4490
* 18 Chrysene-d12	240	6.538	6.536	(1.000)	738179	40.0000	
* 23 Perylene-d12	264	7.633	7.637	(1.000)	739344	40.0000	
2 Naphthalene	128	2.521	2.519	(1.004)	1392262	50.0000	50.9834(A)
3 2-Methylnaphthalene	141	2.927	2.925	(1.166)	735363	50.0000	50.2656(A)
4 1-Methylnaphthalene	142	2.980	2.978	(1.187)	794373	50.0000	47.9677
5 Acenaphthylene	152	3.456	3.454	(0.976)	1380232	50.0000	49.5899
7 Acenaphthene	154	3.557	3.555	(1.005)	738267	50.0000	49.0074
9 Fluorene	166	3.872	3.871	(1.094)	932971	50.0000	49.2537
11 Phenanthrene	178	4.514	4.517	(1.004)	1235274	50.0000	47.4449
12 Anthracene	178	4.551	4.549	(1.012)	1278708	50.0000	48.1709
13 Carbazole	167	4.706	4.704	(1.046)	1111447	50.0000	48.8456
15 Fluoranthene	202	5.390	5.388	(1.198)	1257334	50.0000	48.7092
16 Pyrene	202	5.561	5.559	(0.850)	1318254	50.0000	49.4481
17 Benzo(a)anthracene	228	6.527	6.531	(0.998)	1096876	50.0000	49.7652
19 Chrysene	228	6.560	6.558	(1.003)	1033398	50.0000	48.1011
20 Benzo(b)fluoranthene	252	7.361	7.359	(0.964)	1080002	50.0000	52.3376(A)
21 Benzo(k)fluoranthene	252	7.382	7.380	(0.967)	970372	50.0000	44.9769
22 Benzo(a)pyrene	252	7.591	7.594	(0.994)	978664	50.0000	49.9431
24 Indeno(1,2,3-cd)pyrene	276	8.424	8.427	(1.104)	777793	50.0000	50.2670(AM)
25 Dibenzo(a,h)anthracene	278	8.440	8.443	(1.106)	759088	50.0000	49.0724
26 Benzo(g,h,i)perylene	276	8.664	8.657	(1.135)	805634	50.0000	50.2572(A)

QC Flag Legend

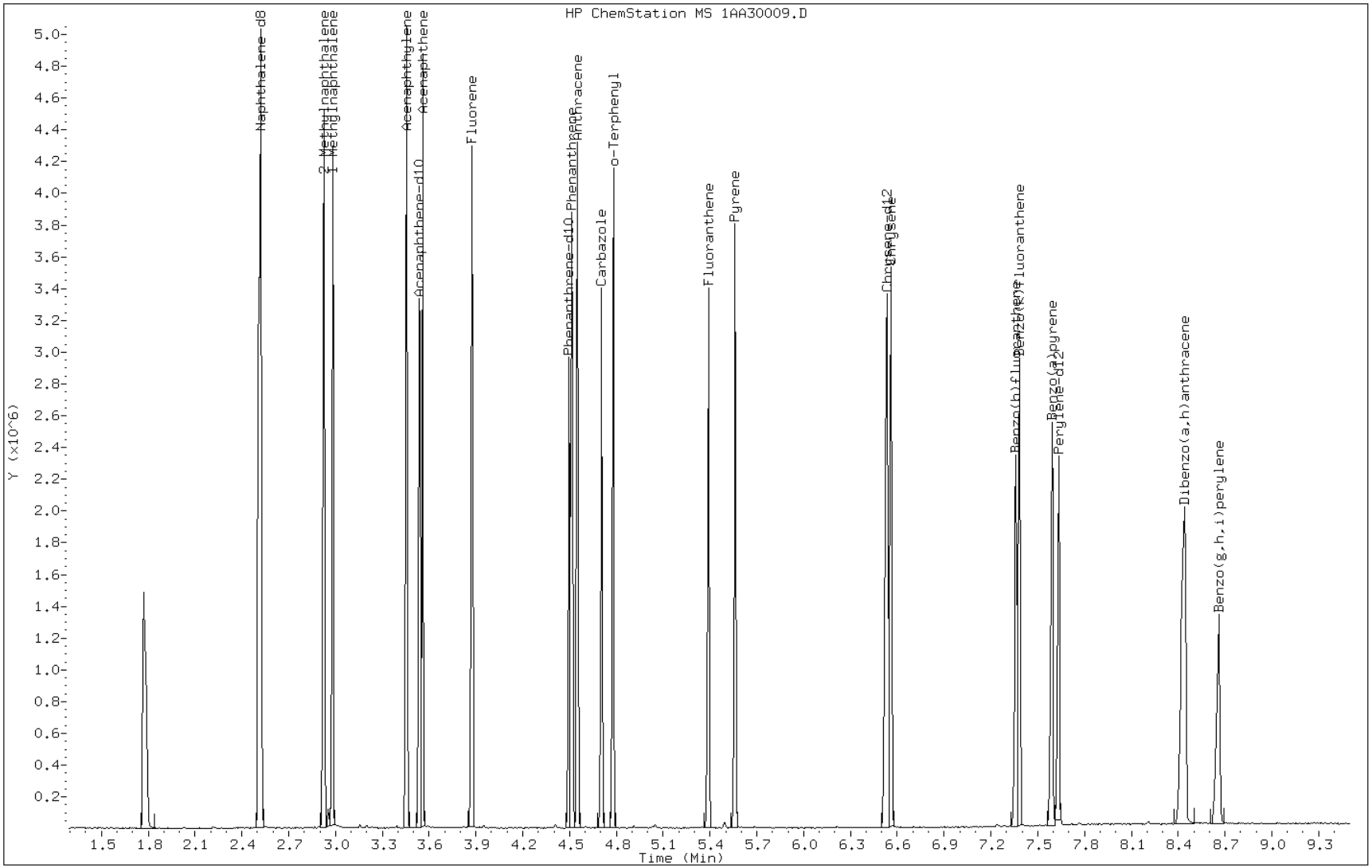
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AA30009.D

Date: 30-JAN-2013 13:20

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1AA30009.D
Inj. Date and Time: 30-JAN-2013 13:20
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

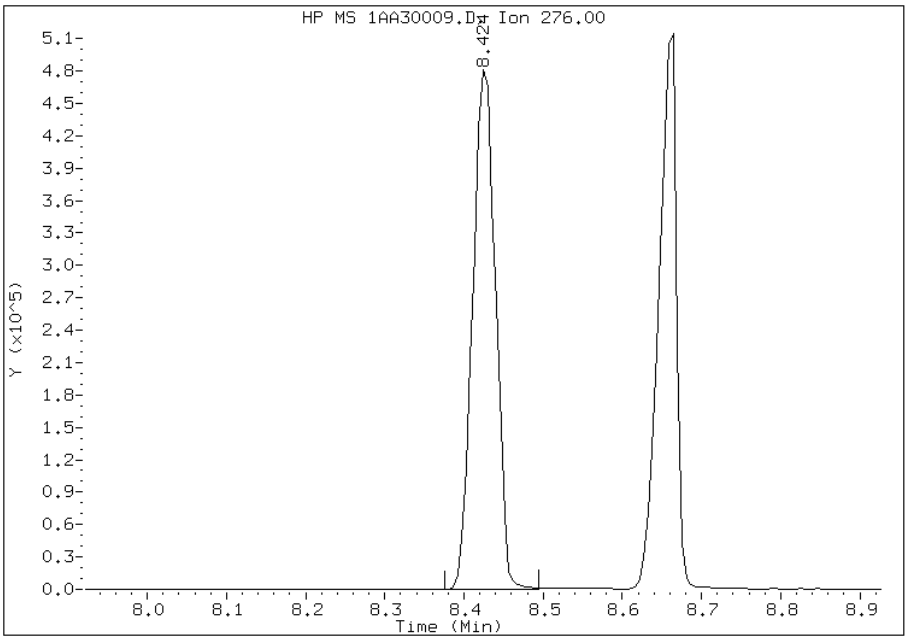
Processing Integration Results

RT: 8.42

Response: 954291

Amount: 60

Conc: 60



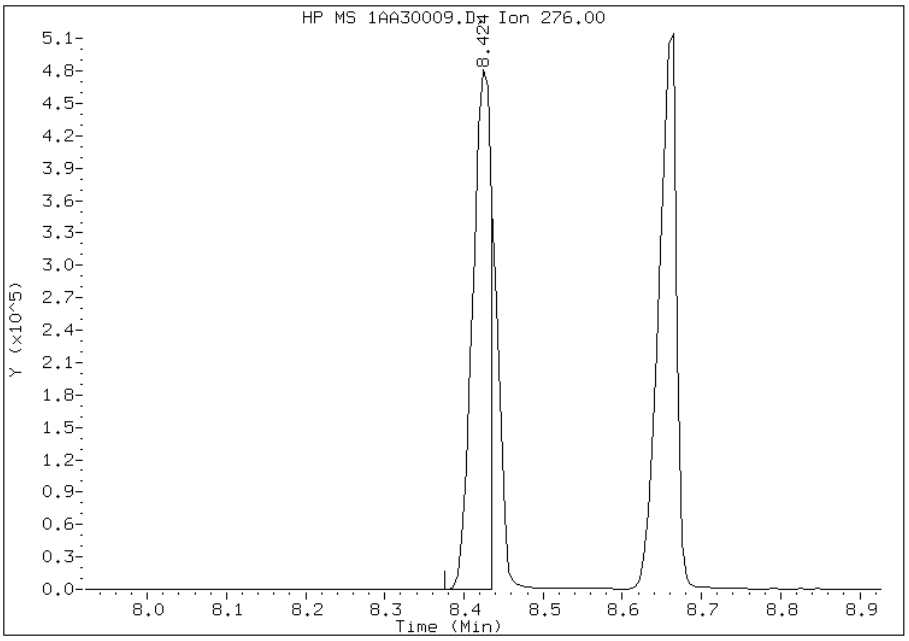
Manual Integration Results

RT: 8.42

Response: 777793

Amount: 50

Conc: 50



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:32
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87279-1 Analy Batch No.: 133227

SDG No.: 68087279-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.0948 1.0545	0.9495 1.0923	1.1033	1.0932	1.0321	Ave		1.0599			0.0000	5.2		15.0			
2-Methylnaphthalene	0.7336 0.6800	0.6777 0.6981	0.6603	0.7017	0.6730	Ave		0.6892			0.0000	3.5		15.0			
1-Methylnaphthalene	0.5817 0.6643	0.5360 0.6684	0.6316	0.6552	0.6507	Ave		0.6268			0.0000	7.9		15.0			
Acenaphthylene	1.7181 1.6465	1.4412 1.6572	1.4779	1.5857	1.6130	Ave		1.5914			0.0000	6.3		15.0			
Acenaphthene	1.1390 0.9603	1.0282 0.9633	0.9458	1.0094	0.9406	Ave		0.9981			0.0000	7.0		15.0			
Fluorene	1.3483 1.3015	1.2058 1.2912	1.2211	1.3274	1.2732	Ave		1.2812			0.0000	4.1		15.0			
Phenanthrene	1.5909 1.1271	1.1807 1.1120	1.0815	1.1674	1.0983	Ave		1.1940			0.0000	15.0		15.0			
Anthracene	1.0132 1.1091	0.9972 1.1231	1.0674	1.1234	1.0967	Ave		1.0757			0.0000	4.8		15.0			
Carbazole	0.8906 0.9895	0.8628 0.9866	0.8811	0.9644	0.9658	Ave		0.9344			0.0000	5.8		15.0			
Fluoranthene	0.9799 1.2313	1.0735 1.2497	1.1621	1.2234	1.2469	Ave		1.1667			0.0000	8.9		15.0			
Pyrene	0.8059 1.1858	1.0113 1.1112	1.0616	1.1543	1.1241	Ave		1.0649			0.0000	12.0		15.0			
Benzo[a]anthracene	1.4670 1.0800	0.9986 1.0530	1.0400	1.0600	1.0228	Ave		1.1031			0.0000	14.7		15.0			
Chrysene	1.2057 1.1045	1.2101 1.0821	1.1125	1.1626	1.0982	Ave		1.1394			0.0000	4.7		15.0			
Benzo[b]fluoranthene	0.8713 1.0190	0.8691 1.1293	0.9456	1.0325	0.9979	Ave		0.9807			0.0000	9.5		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87279-1 Analy Batch No.: 133227

SDG No.: 68087279-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9252 1.2002	0.9572 1.1097	1.0697	1.1497	1.1509	Ave		1.0804			0.0000	9.6		15.0			
Benzo[a]pyrene	0.7248 1.0316	0.8455 1.0436	0.9117	0.9956	0.9794	Ave		0.9332			0.0000	12.3		15.0			
Indeno[1,2,3-cd]pyrene	0.6998 0.9422	0.4820 0.8813	0.8137	0.8316	0.9002	LinF		0.8963			0.0000				0.9980		0.9900
Dibenz(a,h)anthracene	0.7712 0.9005	0.7805 0.9132	0.8152	0.8774	0.8585	Ave		0.8452			0.0000	6.7		15.0			
Benzo[g,h,i]perylene	0.8112 0.9967	0.7908 0.9698	0.9172	0.9667	0.9207	Ave		0.9104			0.0000	8.8		15.0			
o-Terphenyl	0.5355 0.5984	0.5589 0.5994	0.5931	0.6168	0.6005	Ave		0.5861			0.0000	4.8		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87279-1 Analy Batch No.: 133227

SDG No.: 68087279-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	11168 1744899	49180 2683662	279616	562439	1132608	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7484 1125305	35101 1715115	167348	360991	738557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	5934 1099203	27760 1642265	160060	337071	714057	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	13060 2078096	55638 3143102	277566	597168	1333542	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8658 1212087	39694 1826987	177622	380155	777625	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10249 1642686	46551 2448772	229328	499898	1052584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	22944 2725408	87138 3980821	382657	852208	1725035	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	14612 2681981	73594 4020655	377684	820090	1722588	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	12845 2392859	63677 3531798	311754	704012	1516911	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	14132 2977438	79223 4473693	411201	893123	1958378	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13699 3254878	87607 4789001	444176	1032505	2128584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	24935 2964525	86510 4538204	435113	948119	1936797	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	20495 3031738	104834 4663655	465452	1039885	2079538	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	15170 2773683	75135 4834833	409334	924867	1891292	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	16108 3267104	82752 4750961	463057	1029821	2181246	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87279-1 Analy Batch No.: 133227

SDG No.: 68087279-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12619 2808161	73092 4467973	394642	891772	1856241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	LinF	12184 2564602	41666 3772962	352250	744949	1706161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13428 2451088	67472 3909634	352888	785898	1627151	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14123 2713188	68360 4151782	397056	865965	1745002	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7723 1447125	41244 2145891	209857	450297	943151	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07013.D
Lab Smp Id: IC-1489894
Inj Date : 07-JAN-2013 15:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2040281	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1520300	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2884412	40.0000	
$ 14 o-Terphenyl	230	6.162	6.162	(1.042)	7723	0.20000	0.1827
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3399562	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3482211	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	11168	0.20000	0.2065(Q)
3 2-Methylnaphthalene	142	4.304	4.304	(1.113)	7484	0.20000	0.2128
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	5934	0.20000	0.1855
5 Acenaphthylene	152	4.868	4.868	(0.982)	13060	0.20000	0.2159
7 Acenaphthene	154	4.974	4.974	(1.004)	8658	0.20000	0.2282
9 Fluorene	166	5.298	5.298	(1.069)	10249	0.20000	0.2104
11 Phenanthrene	178	5.927	5.927	(1.002)	22944	0.20000	0.2664
12 Anthracene	178	5.962	5.962	(1.008)	14612	0.20000	0.1883
13 Carbazole	167	6.074	6.074	(1.027)	12845	0.20000	0.1906
15 Fluoranthene	202	6.774	6.774	(1.145)	14132	0.20000	0.1679
16 Pyrene	202	6.945	6.945	(0.883)	13699	0.20000	0.1513
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	24935	0.20000	0.2659
19 Chrysene	228	7.886	7.886	(1.002)	20495	0.20000	0.2116
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	15170	0.20000	0.1776
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	16108	0.20000	0.1712(M)
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	12619	0.20000	0.1553
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	12184	0.20000	0.1764(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	13428	0.20000	0.1824(M)
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	14123	0.20000	0.1781(M)

QC Flag Legend

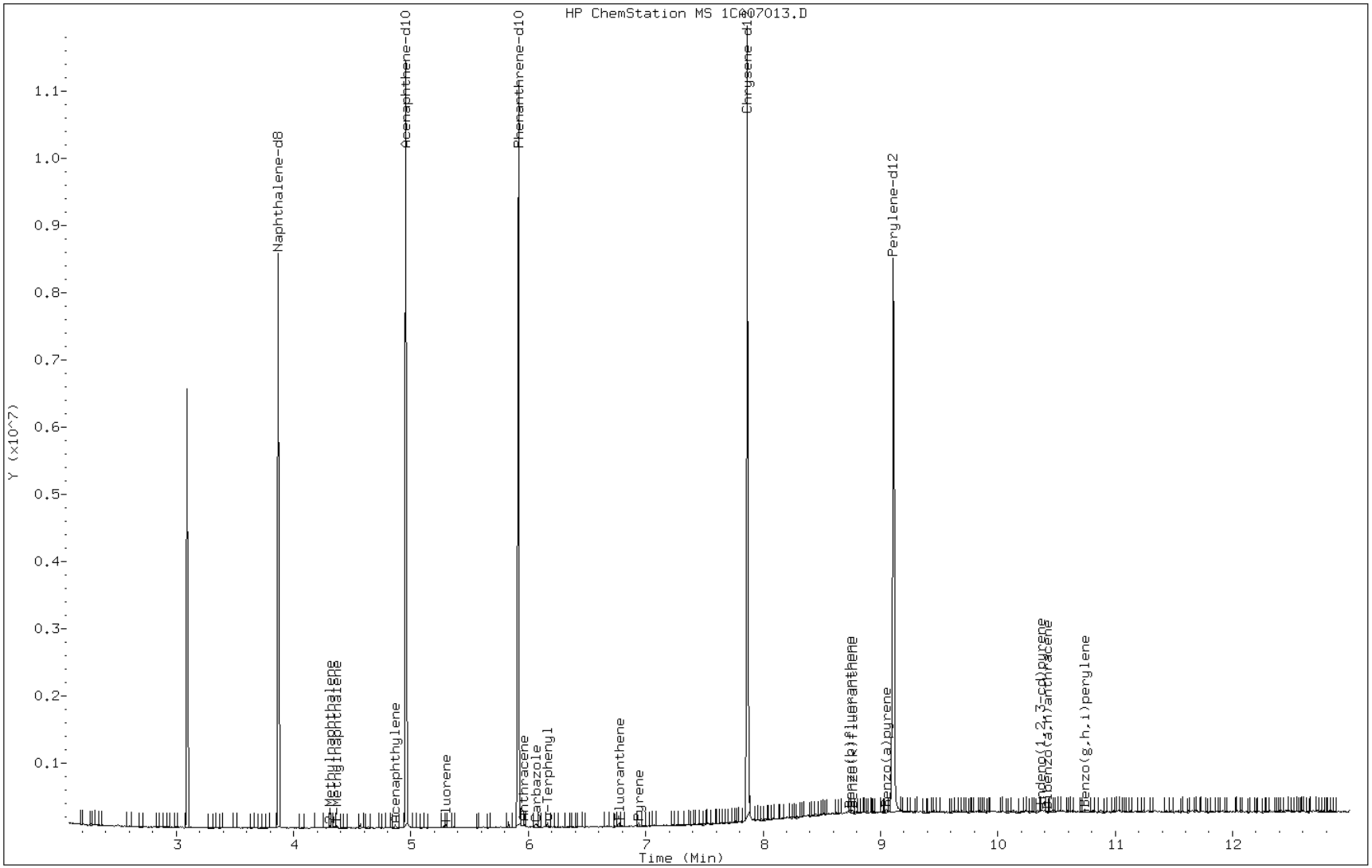
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07013.D

Date: 07-JAN-2013 15:23

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/08/2013

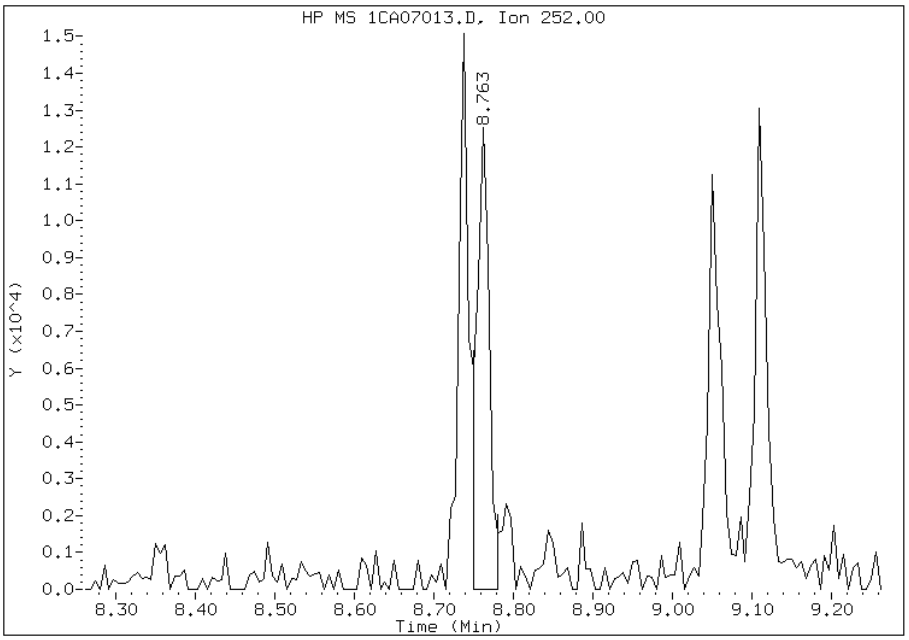
Processing Integration Results

RT: 8.76

Response: 14049

Amount: 0

Conc: 0



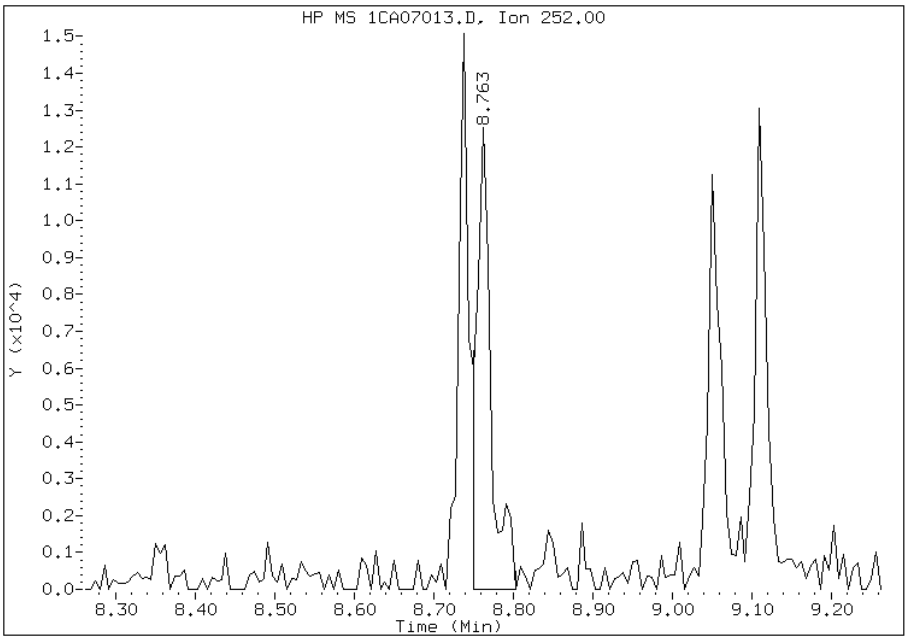
Manual Integration Results

RT: 8.76

Response: 16108

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

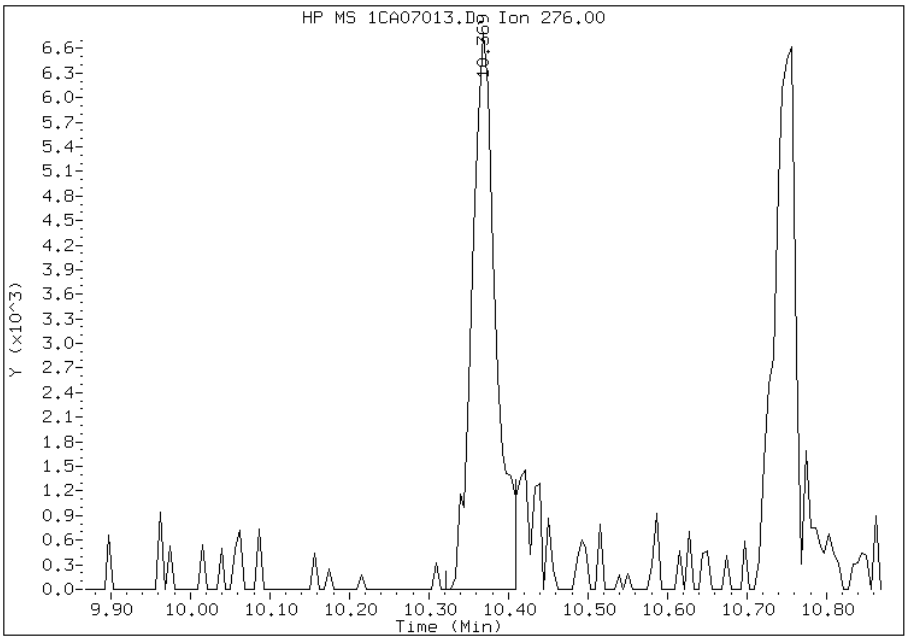
Processing Integration Results

RT: 10.37

Response: 14154

Amount: 0

Conc: 0



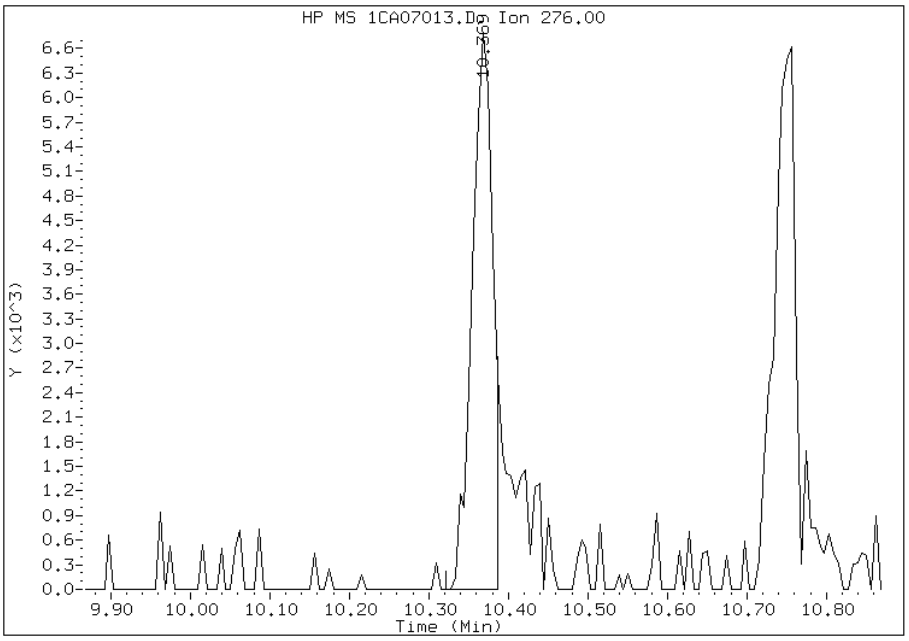
Manual Integration Results

RT: 10.37

Response: 12184

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

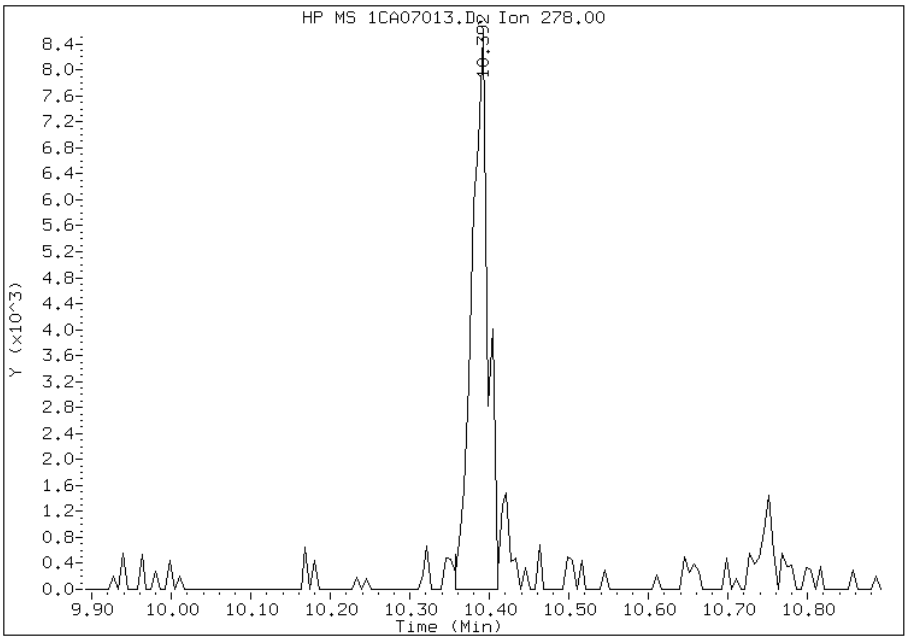
Processing Integration Results

RT: 10.39

Response: 12138

Amount: 0

Conc: 0



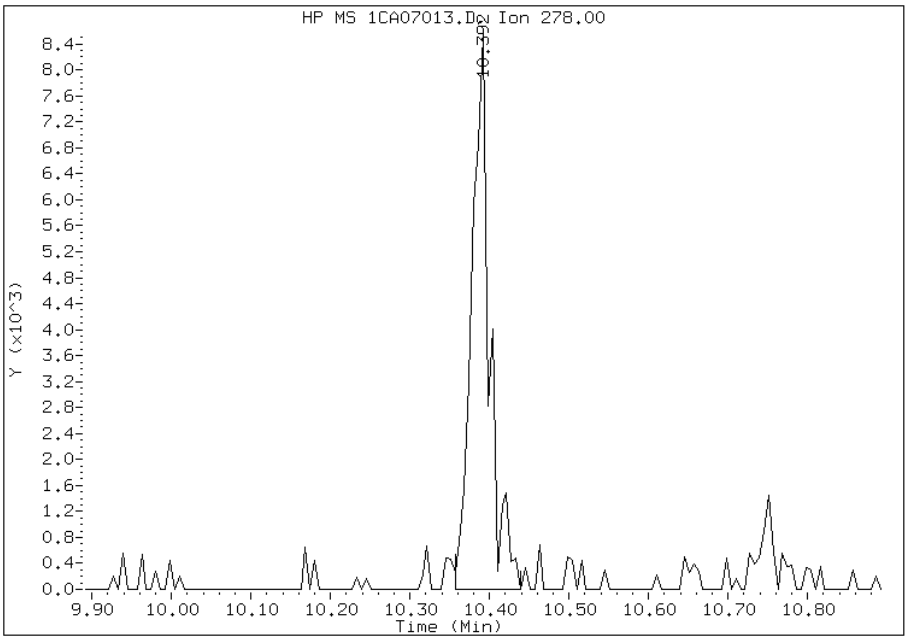
Manual Integration Results

RT: 10.39

Response: 13428

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

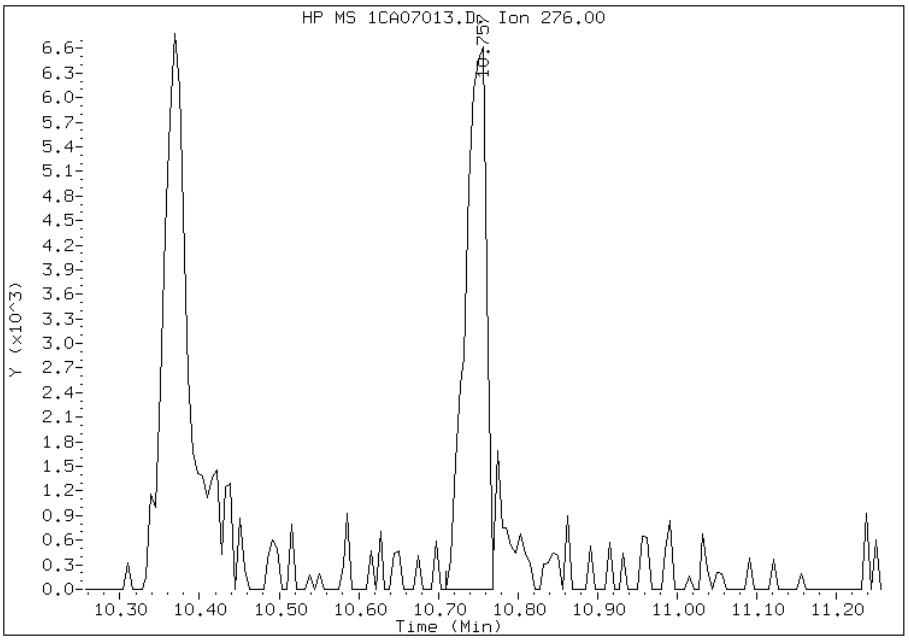
Processing Integration Results

RT: 10.76

Response: 12183

Amount: 0

Conc: 0



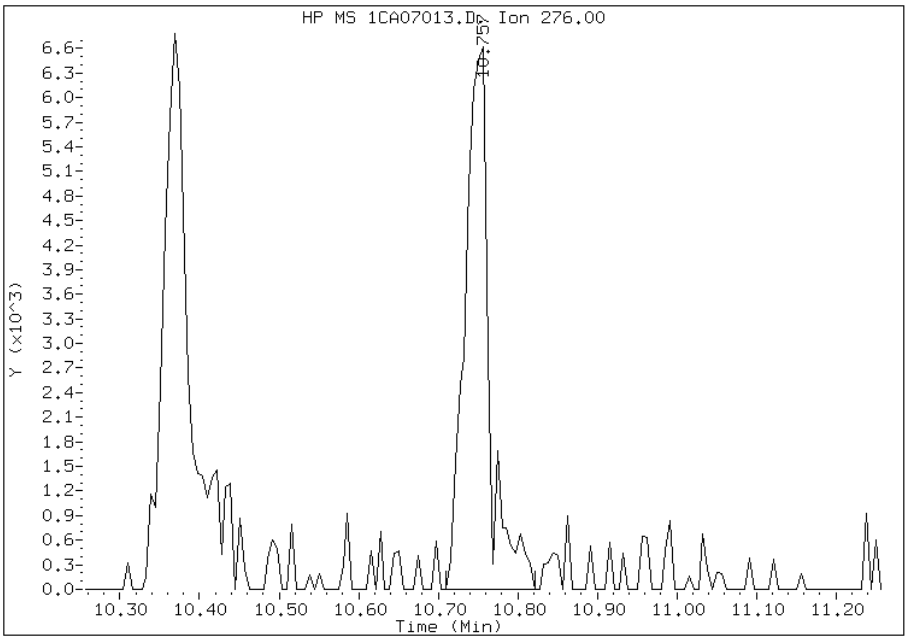
Manual Integration Results

RT: 10.76

Response: 14123

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07014.D
Lab Smp Id: IC-1489895
Inj Date : 07-JAN-2013 15:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:23 Cal File: 1CA07013.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2071724	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1544247	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2952062	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	41244	1.00000	0.9535
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3465163	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3457962	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	49180	1.00000	0.8958(Q)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	35101	1.00000	0.9833
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	27760	1.00000	0.8550
5 Acenaphthylene	152	4.868	4.868	(0.982)	55638	1.00000	0.9056
7 Acenaphthene	154	4.974	4.974	(1.004)	39694	1.00000	1.0301
9 Fluorene	166	5.298	5.298	(1.069)	46551	1.00000	0.9411
11 Phenanthrene	178	5.933	5.933	(1.003)	87138	1.00000	0.9888
12 Anthracene	178	5.962	5.962	(1.008)	73594	1.00000	0.9269
13 Carbazole	167	6.074	6.074	(1.027)	63677	1.00000	0.9233
15 Fluoranthene	202	6.774	6.774	(1.145)	79223	1.00000	0.9201
16 Pyrene	202	6.945	6.945	(0.883)	87607	1.00000	0.9496
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	86510	1.00000	0.9053
19 Chrysene	228	7.886	7.886	(1.002)	104834	1.00000	1.0620(M)
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	75135	1.00000	0.8862
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	82752	1.00000	0.8860
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	73092	1.00000	0.9060
24 Indeno(1,2,3-cd)pyrene	276	10.362	10.362	(1.138)	41666	1.00000	0.6078(M)
25 Dibenzo(a,h)anthracene	278	10.380	10.380	(1.139)	67472	1.00000	0.9234(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	68360	1.00000	0.8685(M)

QC Flag Legend

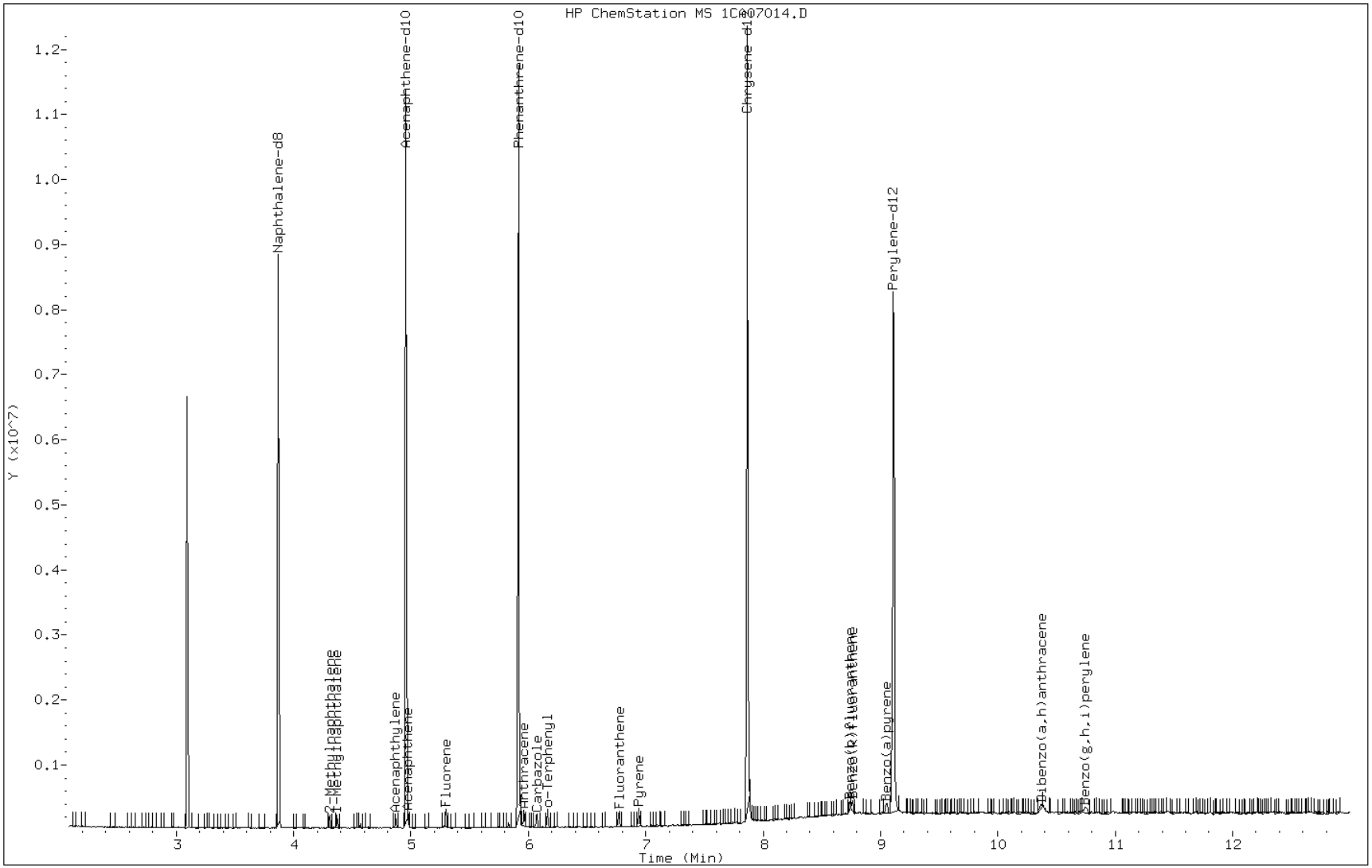
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07014.D

Date: 07-JAN-2013 15:41

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 01/08/2013

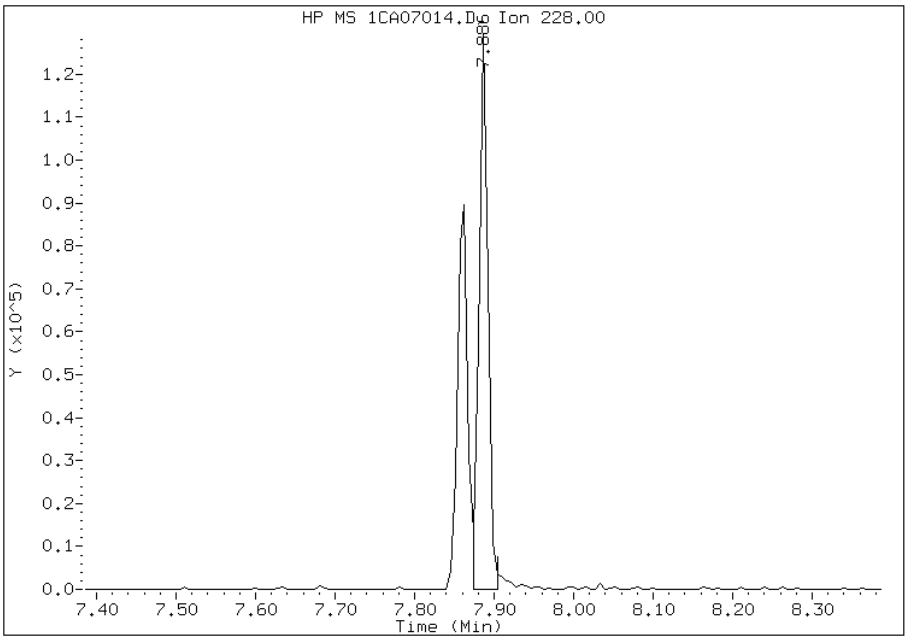
Processing Integration Results

RT: 7.89

Response: 101100

Amount: 1

Conc: 1



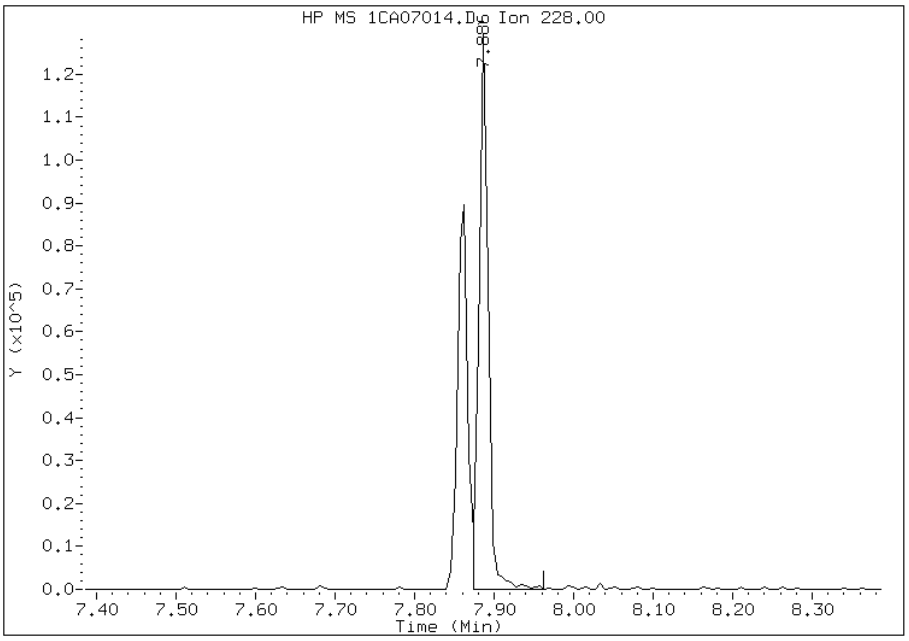
Manual Integration Results

RT: 7.89

Response: 104834

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

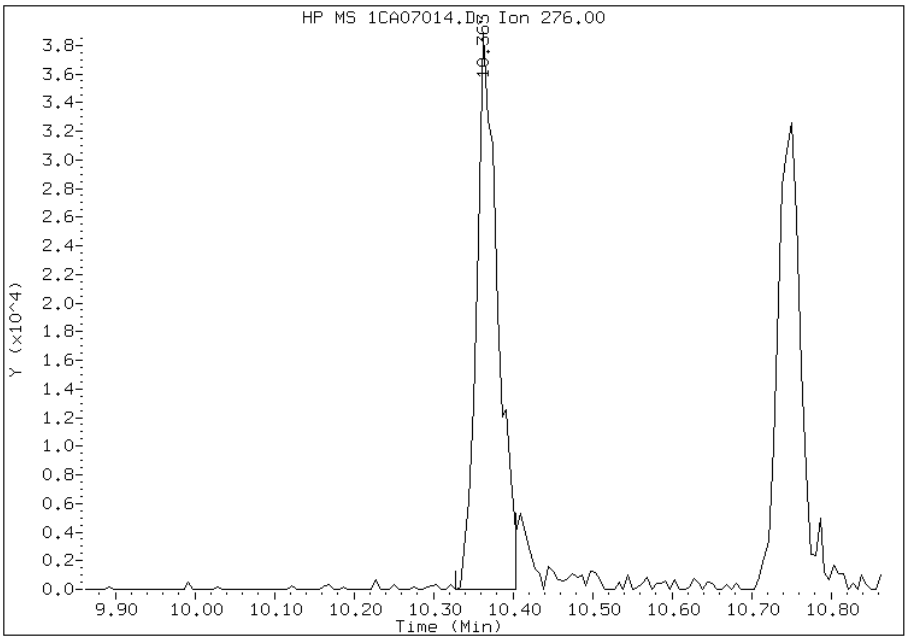
Processing Integration Results

RT: 10.36

Response: 72270

Amount: 1

Conc: 1



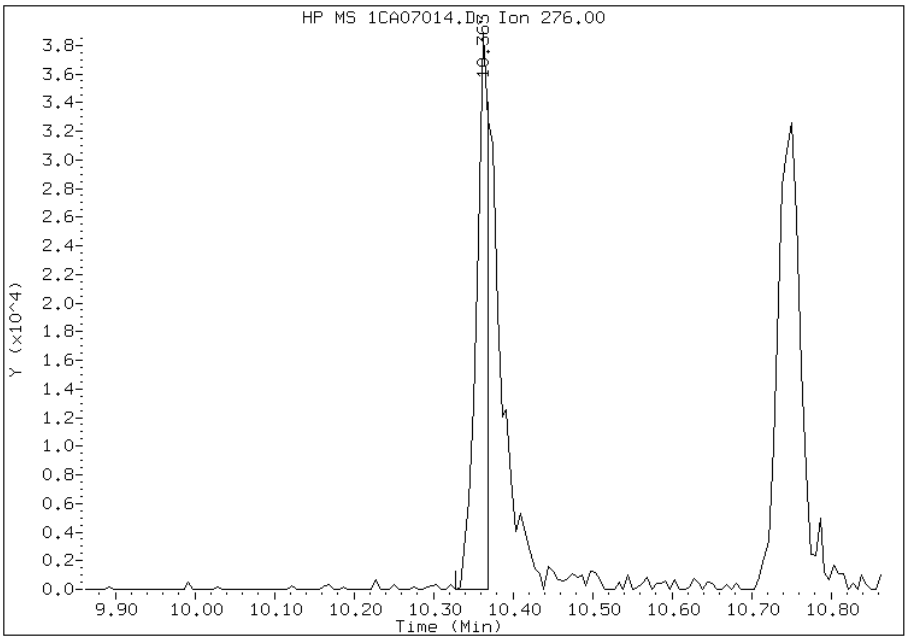
Manual Integration Results

RT: 10.36

Response: 41666

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

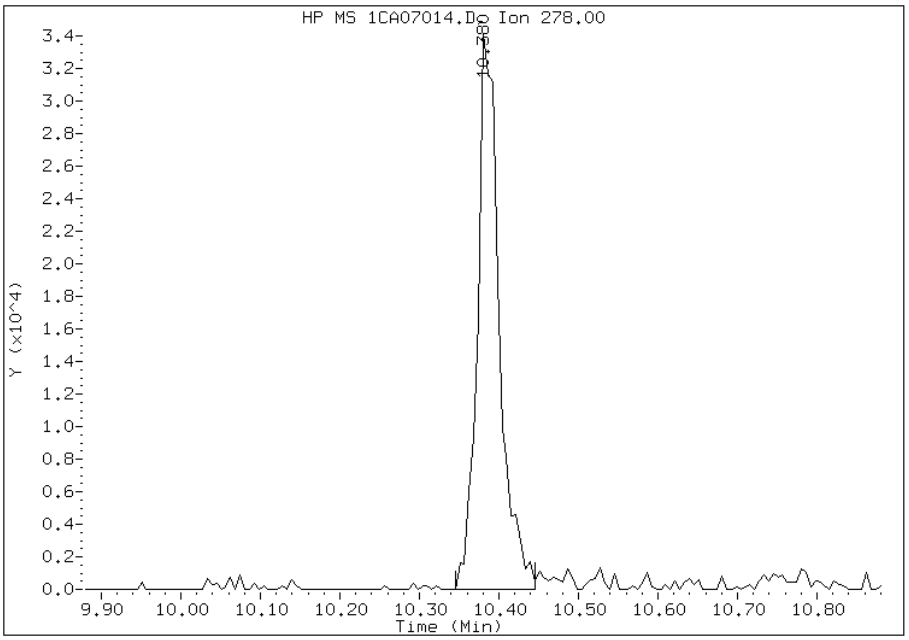
Processing Integration Results

RT: 10.38

Response: 65243

Amount: 1

Conc: 1



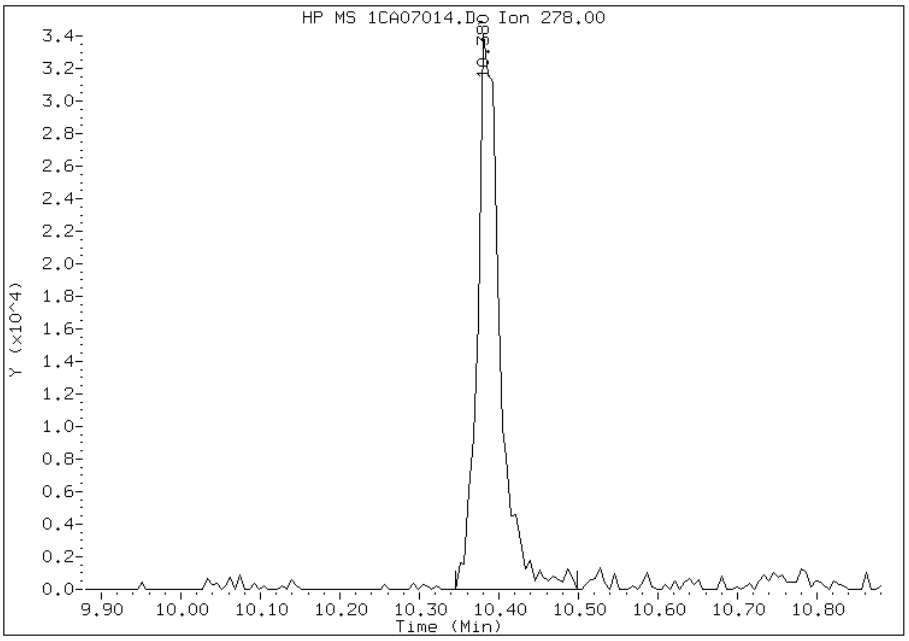
Manual Integration Results

RT: 10.38

Response: 67472

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

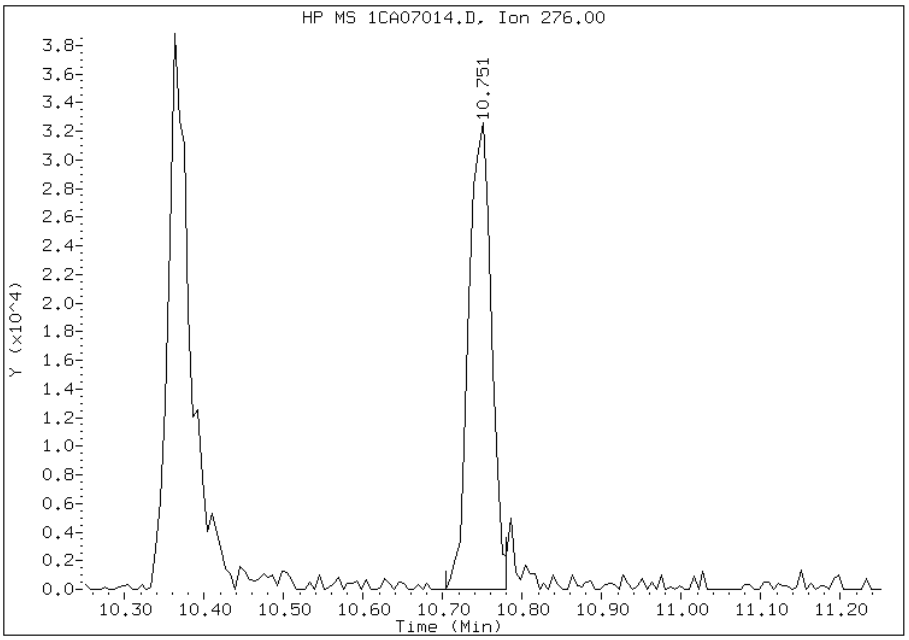
Processing Integration Results

RT: 10.75

Response: 64475

Amount: 1

Conc: 1



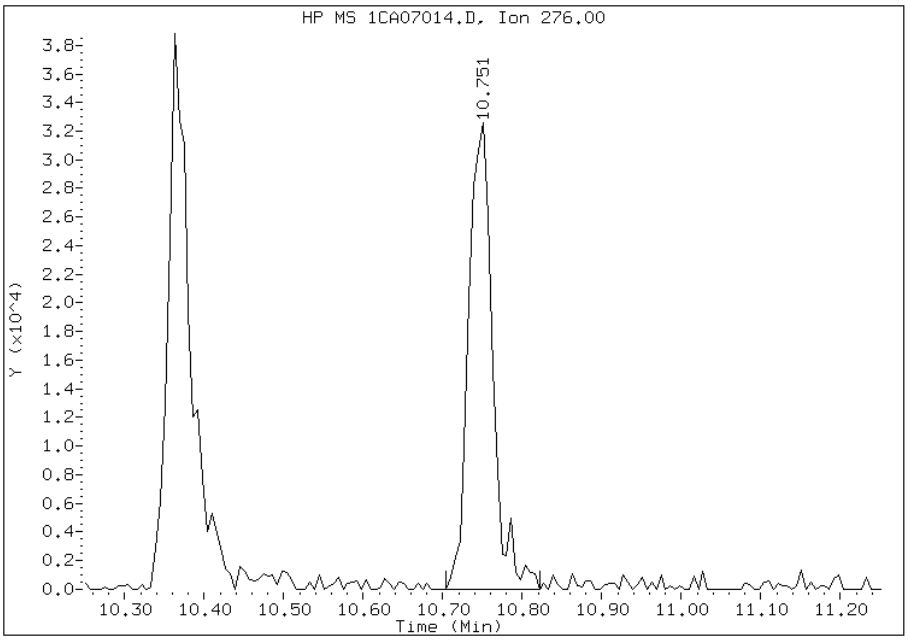
Manual Integration Results

RT: 10.75

Response: 68360

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07015.D
Lab Smp Id: IC-1489896
Inj Date : 07-JAN-2013 15:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:41 Cal File: 1CA07014.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2027501	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1502475	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2830661	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	209857	5.00000	5.0597
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3347096	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3463066	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	279616	5.00000	5.2044
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	167348	5.00000	4.7904
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	160060	5.00000	5.0377
5 Acenaphthylene	152	4.869	4.869	(0.982)	277566	5.00000	4.6435
7 Acenaphthene	154	4.974	4.974	(1.004)	177622	5.00000	4.7378
9 Fluorene	166	5.298	5.298	(1.069)	229328	5.00000	4.7653
11 Phenanthrene	178	5.927	5.927	(1.002)	382657	5.00000	4.5288
12 Anthracene	178	5.963	5.963	(1.008)	377684	5.00000	4.9613
13 Carbazole	167	6.074	6.074	(1.027)	311754	5.00000	4.7146
15 Fluoranthene	202	6.774	6.774	(1.145)	411201	5.00000	4.9805
16 Pyrene	202	6.945	6.945	(0.883)	444176	5.00000	4.9847
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	435113	5.00000	4.7140
19 Chrysene	228	7.886	7.886	(1.002)	465452	5.00000	4.8819
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	409334	5.00000	4.8211
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	463057	5.00000	4.9506
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	394642	5.00000	4.8847
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	352250	5.00000	5.1308(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	352888	5.00000	4.8224(M)
26 Benzo(g,h,i)perylene	276	10.751	10.751	(1.180)	397056	5.00000	5.0373(M)

QC Flag Legend

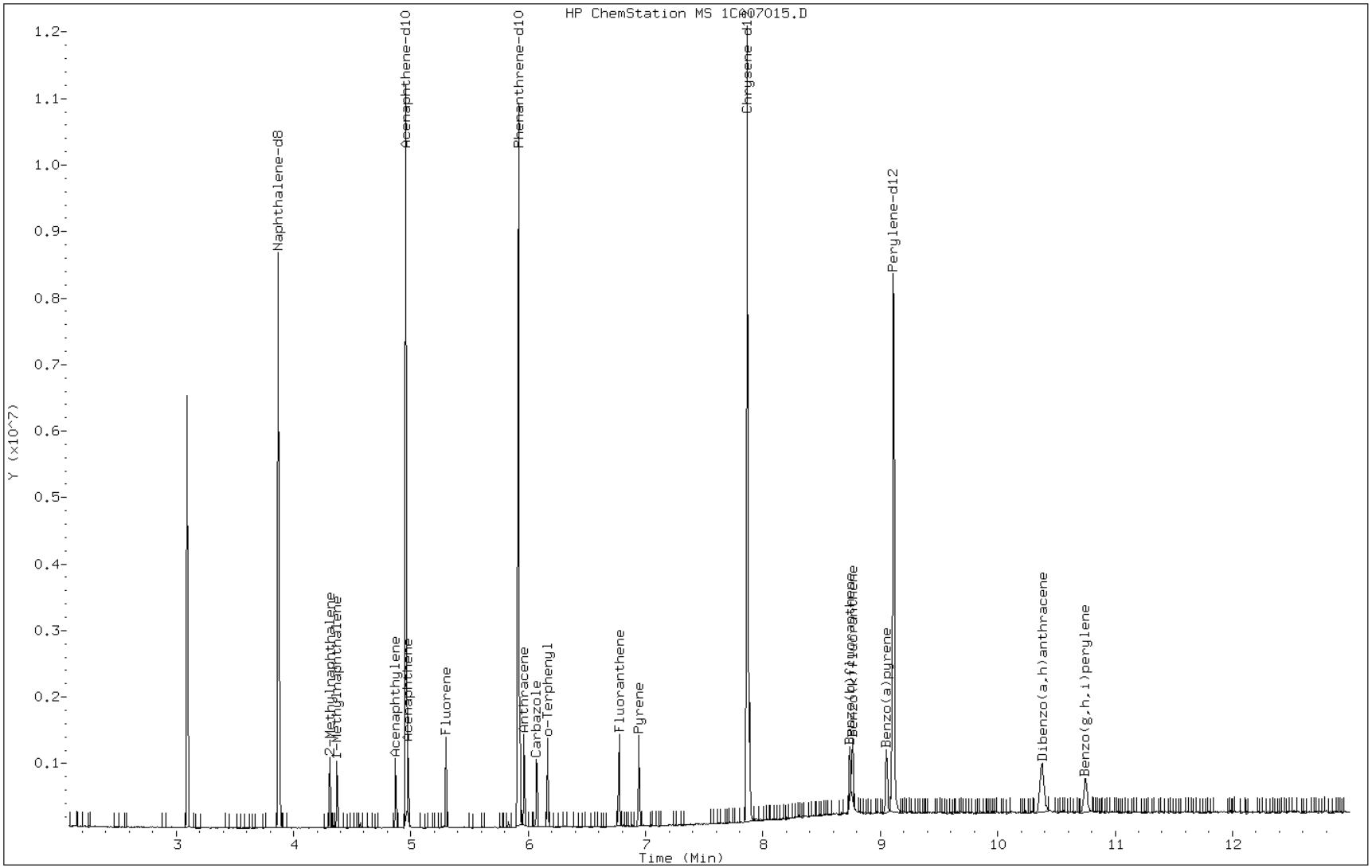
M - Compound response manually integrated.

Data File: 1CA07015.D

Date: 07-JAN-2013 15:59

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489896 Operator: SCC



Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

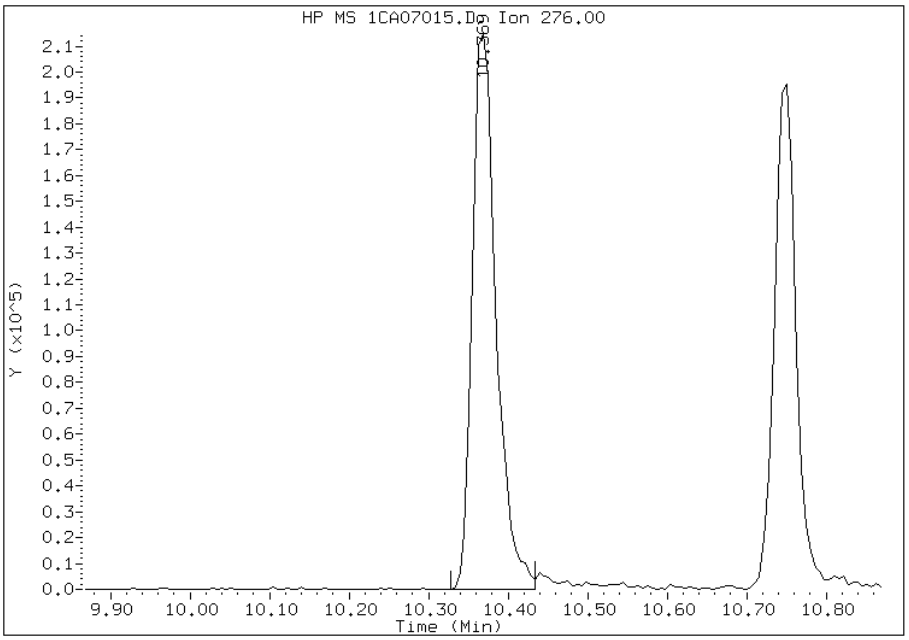
Processing Integration Results

RT: 10.37

Response: 445493

Amount: 6

Conc: 6



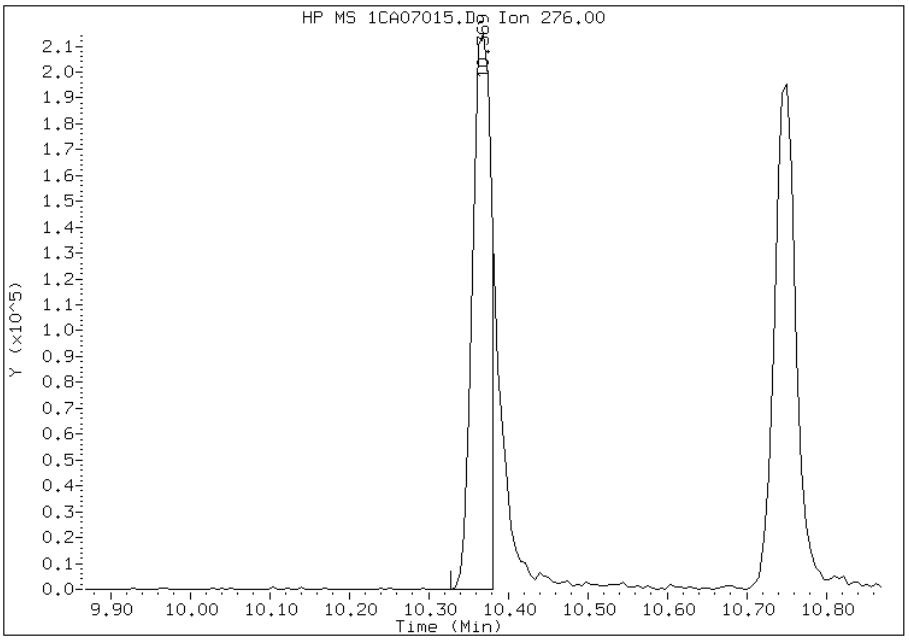
Manual Integration Results

RT: 10.37

Response: 352250

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

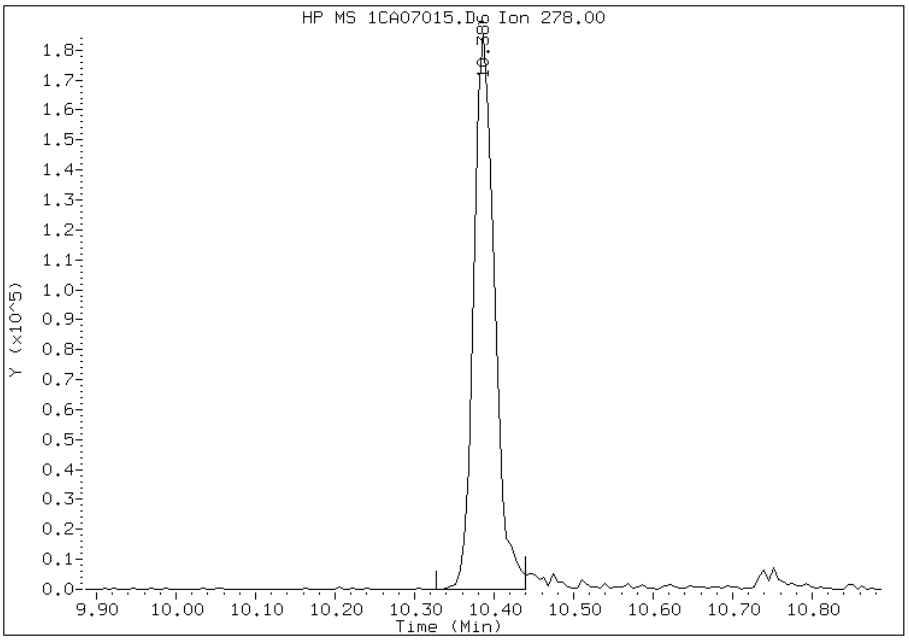
Processing Integration Results

RT: 10.39

Response: 335936

Amount: 5

Conc: 5



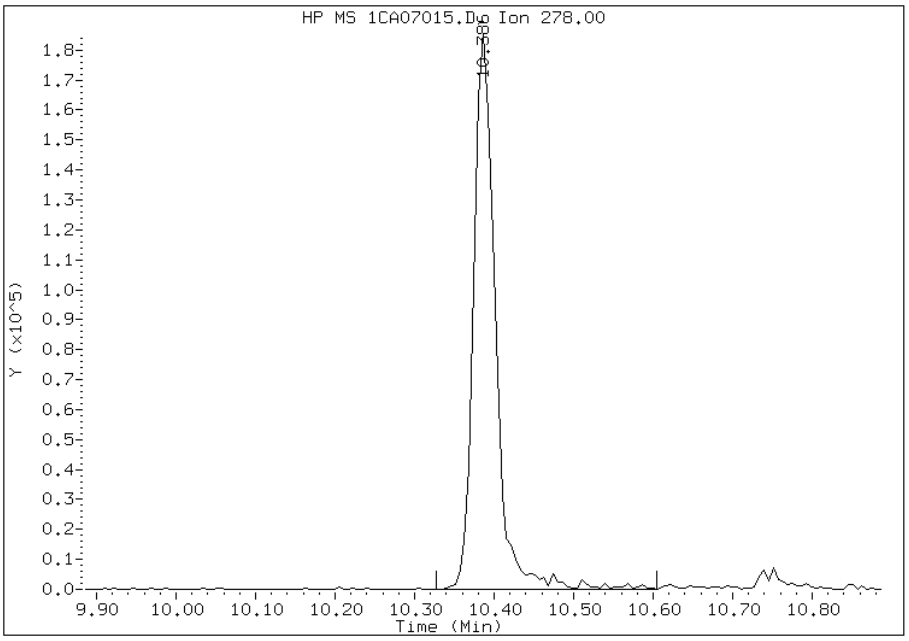
Manual Integration Results

RT: 10.39

Response: 352888

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

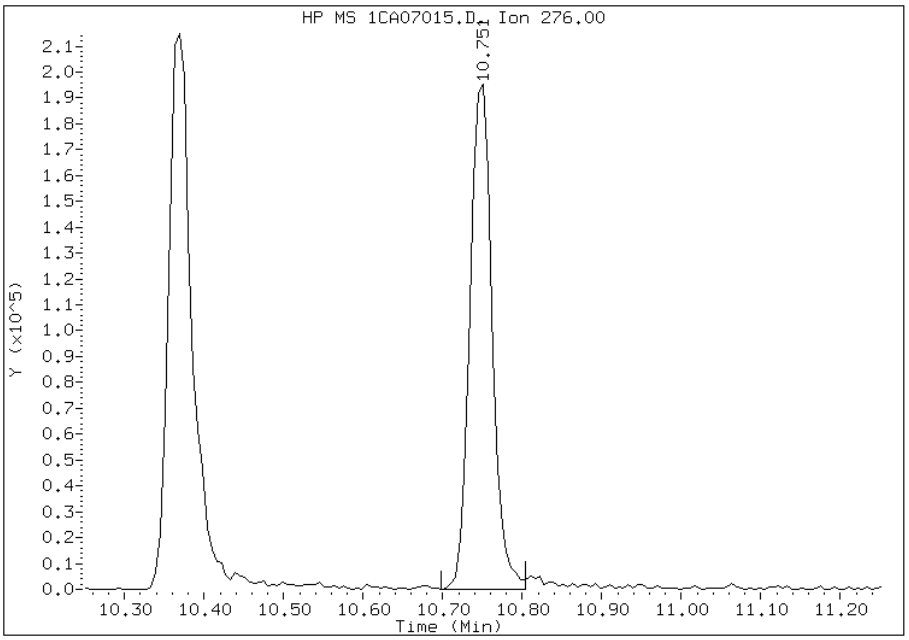
Processing Integration Results

RT: 10.75

Response: 377997

Amount: 5

Conc: 5



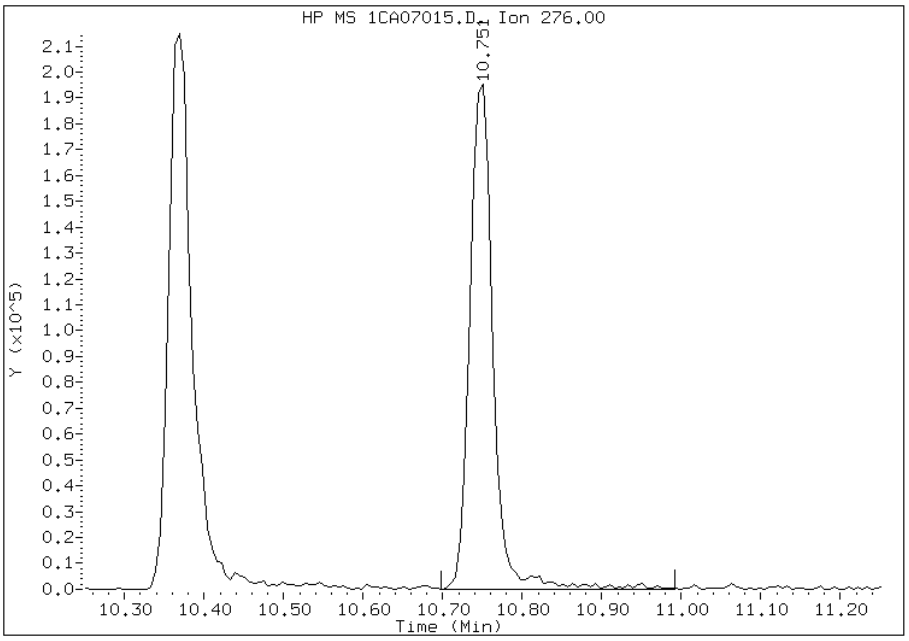
Manual Integration Results

RT: 10.75

Response: 397056

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07016.D
Lab Smp Id: IC-1489897
Inj Date : 07-JAN-2013 16:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:59 Cal File: 1CA07015.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2057907	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1506425	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2920094	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	450297	10.0000	10.5243
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3577892	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3583032	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	562439	10.0000	10.3139
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	360991	10.0000	10.1808
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	337071	10.0000	10.4523
5 Acenaphthylene	152	4.868	4.868	(0.982)	597168	10.0000	9.9641
7 Acenaphthene	154	4.974	4.974	(1.004)	380155	10.0000	10.1136
9 Fluorene	166	5.298	5.298	(1.069)	499898	10.0000	10.3604
11 Phenanthrene	178	5.927	5.927	(1.002)	852208	10.0000	9.7771
12 Anthracene	178	5.962	5.962	(1.008)	820090	10.0000	10.4428
13 Carbazole	167	6.068	6.068	(1.026)	704012	10.0000	10.3206
15 Fluoranthene	202	6.774	6.774	(1.145)	893123	10.0000	10.4863
16 Pyrene	202	6.945	6.945	(0.883)	1032505	10.0000	10.8396
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	948119	10.0000	9.6094
19 Chrysene	228	7.886	7.886	(1.002)	1039885	10.0000	10.2033
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	924867	10.0000	10.5284
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	1029821	10.0000	10.6413
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	891772	10.0000	10.6685
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	744949	10.0000	10.4876(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	785898	10.0000	10.3803(M)
26 Benzo(g,h,i)perylene	276	10.744	10.744	(1.179)	865965	10.0000	10.6183(M)

QC Flag Legend

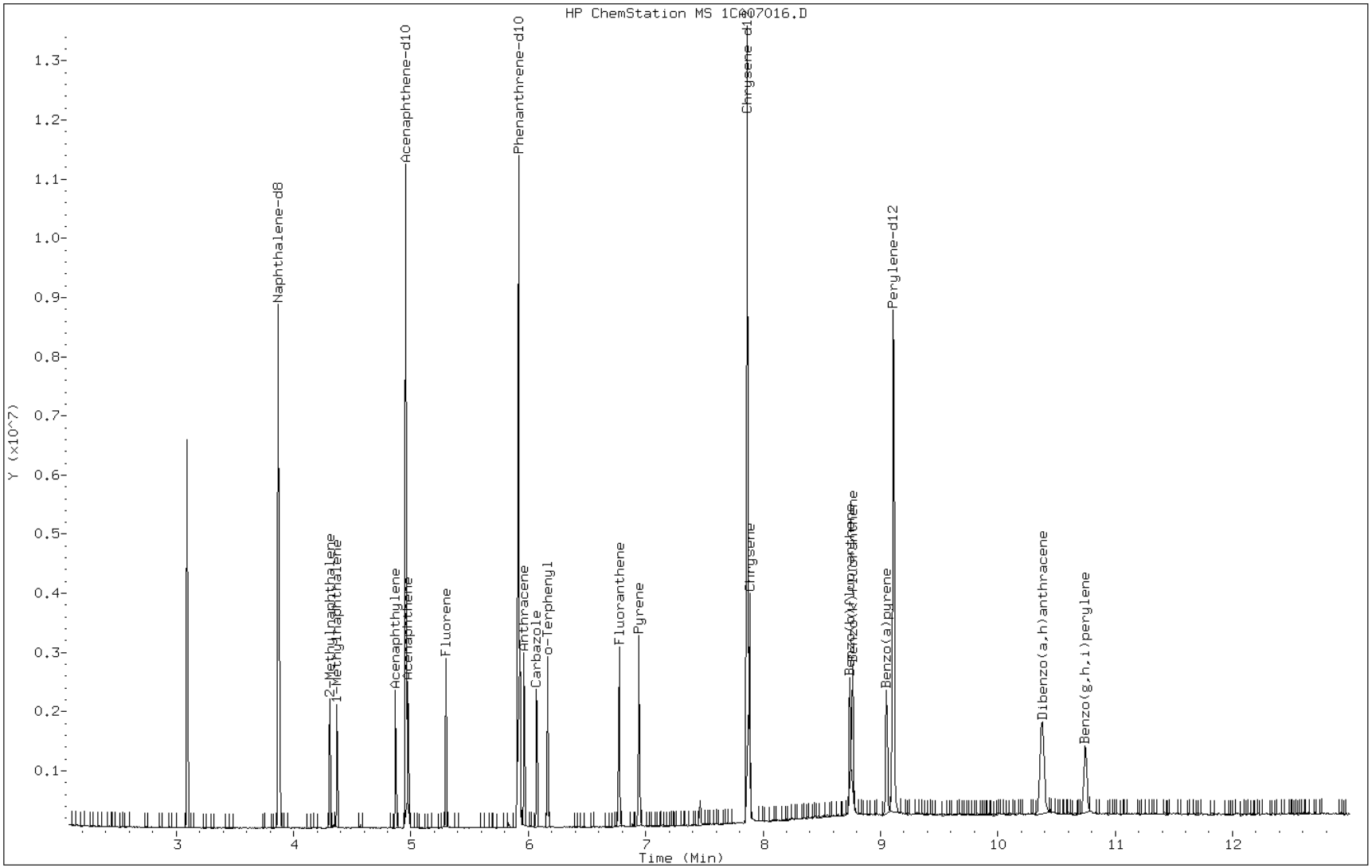
M - Compound response manually integrated.

Data File: 1CA07016.D

Date: 07-JAN-2013 16:18

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

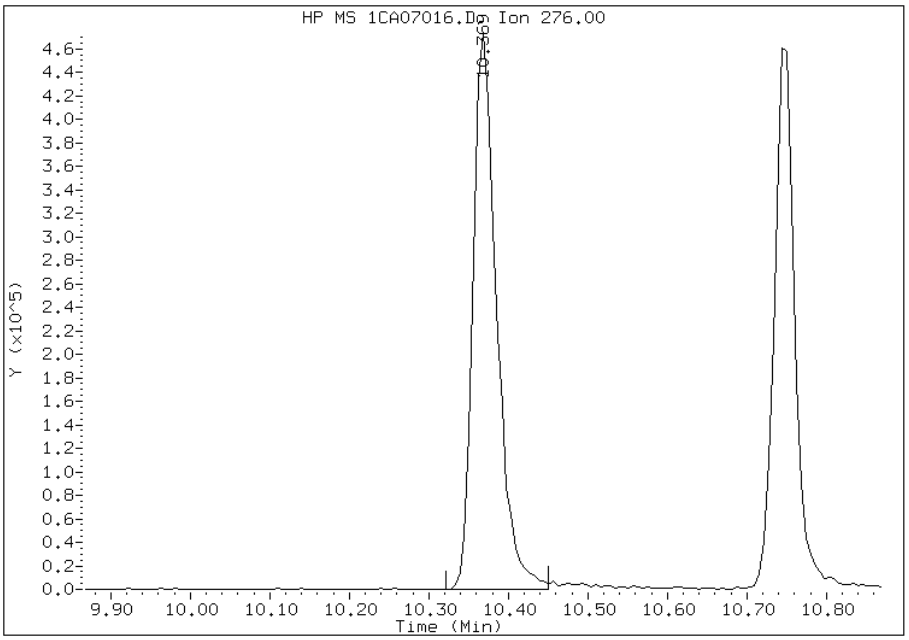
Processing Integration Results

RT: 10.37

Response: 970985

Amount: 12

Conc: 12



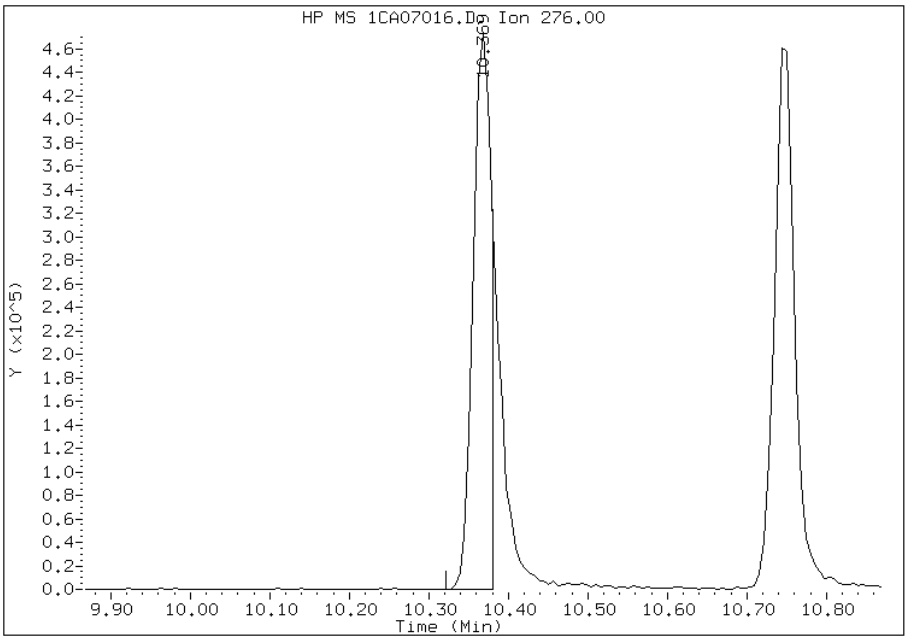
Manual Integration Results

RT: 10.37

Response: 744949

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

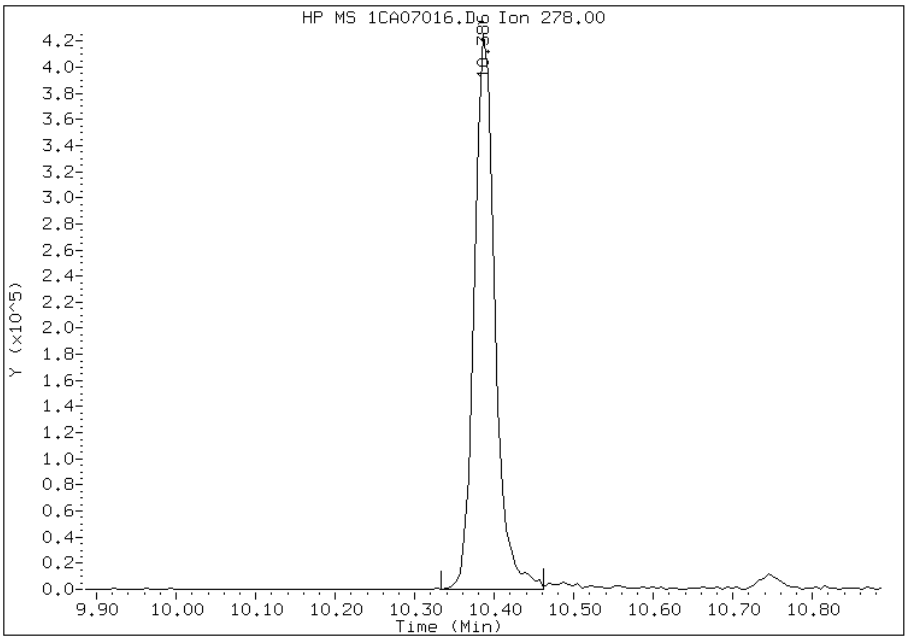
Processing Integration Results

RT: 10.39

Response: 764351

Amount: 10

Conc: 10



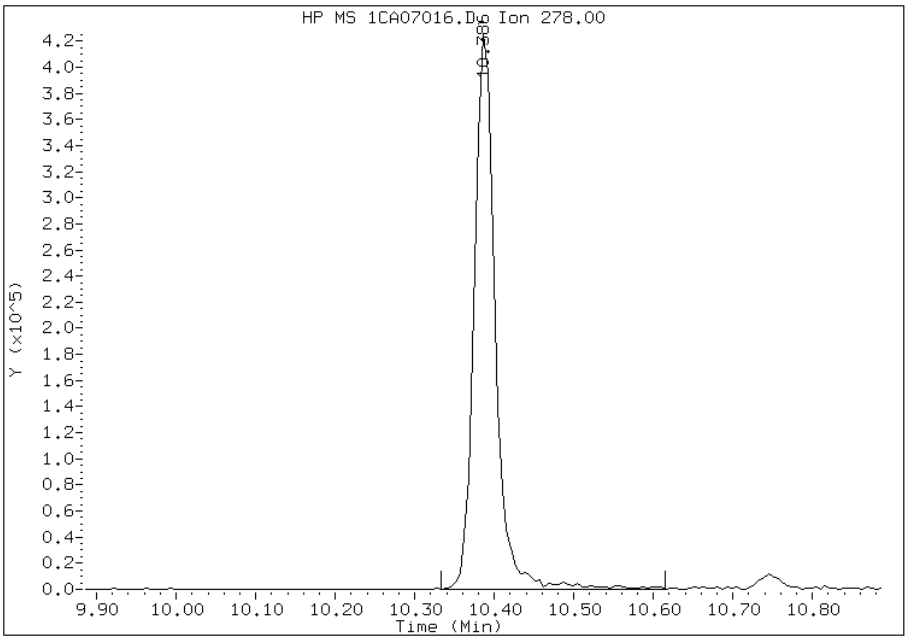
Manual Integration Results

RT: 10.39

Response: 785898

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

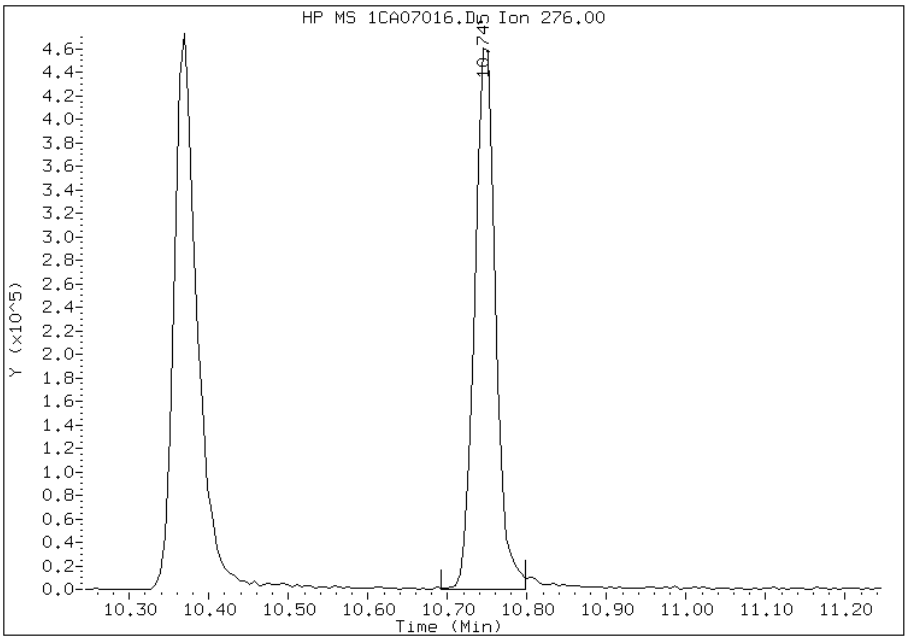
Processing Integration Results

RT: 10.74

Response: 835718

Amount: 10

Conc: 10



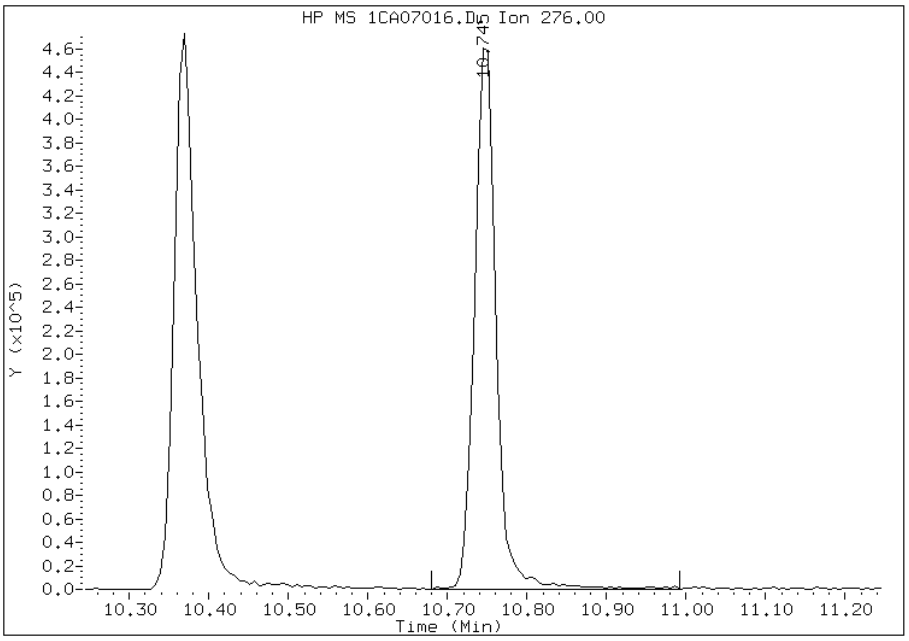
Manual Integration Results

RT: 10.74

Response: 865965

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07017.D
Lab Smp Id: ICIS-1489898
Inj Date : 07-JAN-2013 16:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:18 Cal File: 1CA07016.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2194838	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1653478	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	3141284	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	943151	20.0000	20.4912
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3787207	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3790527	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1132608	20.0000	19.4738
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	738557	20.0000	19.5296
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	714057	20.0000	20.7609
5 Acenaphthylene	152	4.868	4.868	(0.982)	1333542	20.0000	20.2720
7 Acenaphthene	154	4.974	4.974	(1.004)	777625	20.0000	18.8479
9 Fluorene	166	5.298	5.298	(1.069)	1052584	20.0000	19.8748
11 Phenanthrene	178	5.927	5.927	(1.002)	1725035	20.0000	18.3973
12 Anthracene	178	5.962	5.962	(1.008)	1722588	20.0000	20.3906
13 Carbazole	167	6.074	6.074	(1.027)	1516911	20.0000	20.6718
15 Fluoranthene	202	6.774	6.774	(1.145)	1958378	20.0000	21.3746
16 Pyrene	202	6.945	6.945	(0.883)	2128584	20.0000	21.1117
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	1936797	20.0000	18.5450
19 Chrysene	228	7.886	7.886	(1.002)	2079538	20.0000	19.2766
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	1891292	20.0000	20.3514
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	2181246	20.0000	21.3054
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	1856241	20.0000	20.9912
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	1706161	20.0000	22.7051(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	1627151	20.0000	20.3153(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	1745002	20.0000	20.2256(M)

QC Flag Legend

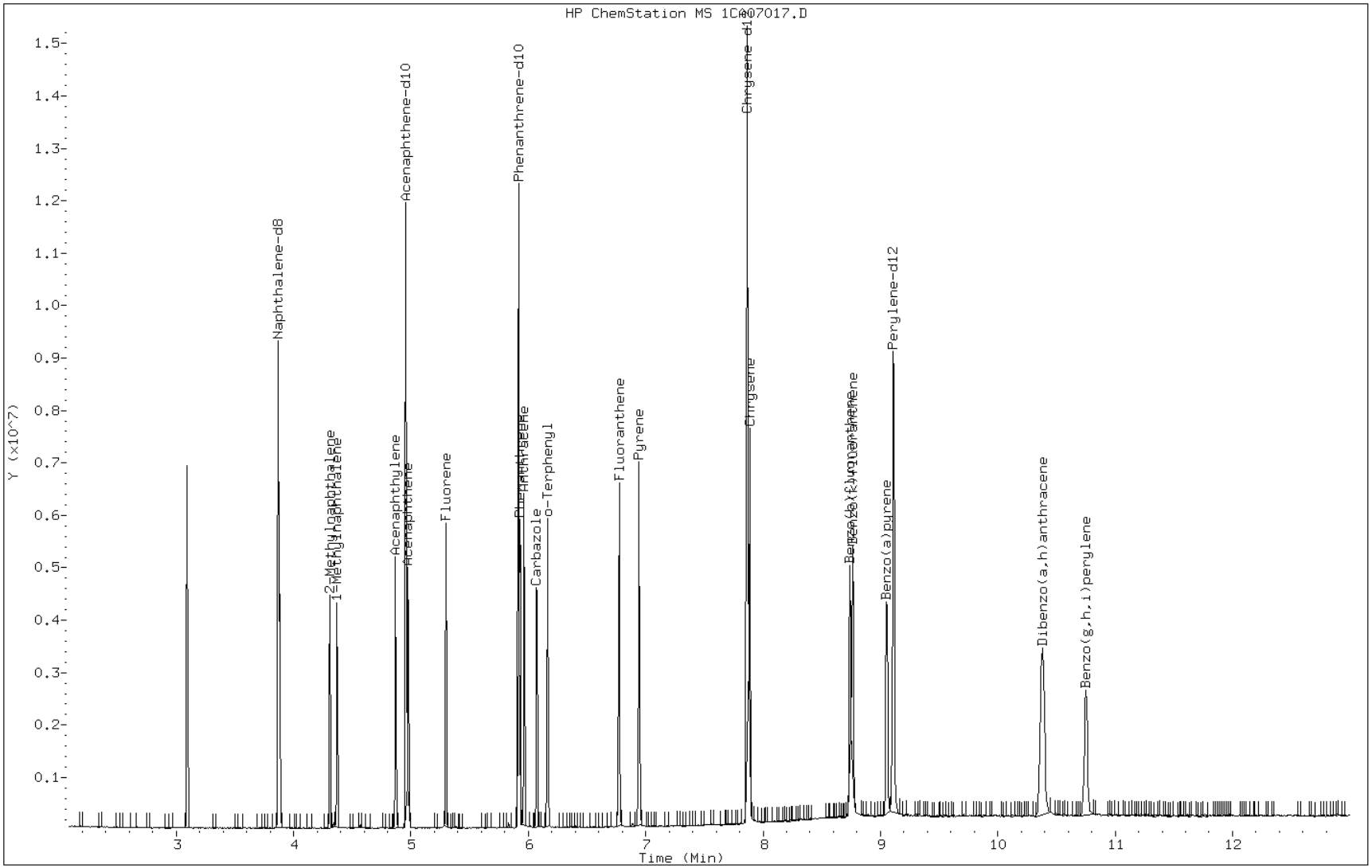
M - Compound response manually integrated.

Data File: 1CA07017.D

Date: 07-JAN-2013 16:36

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

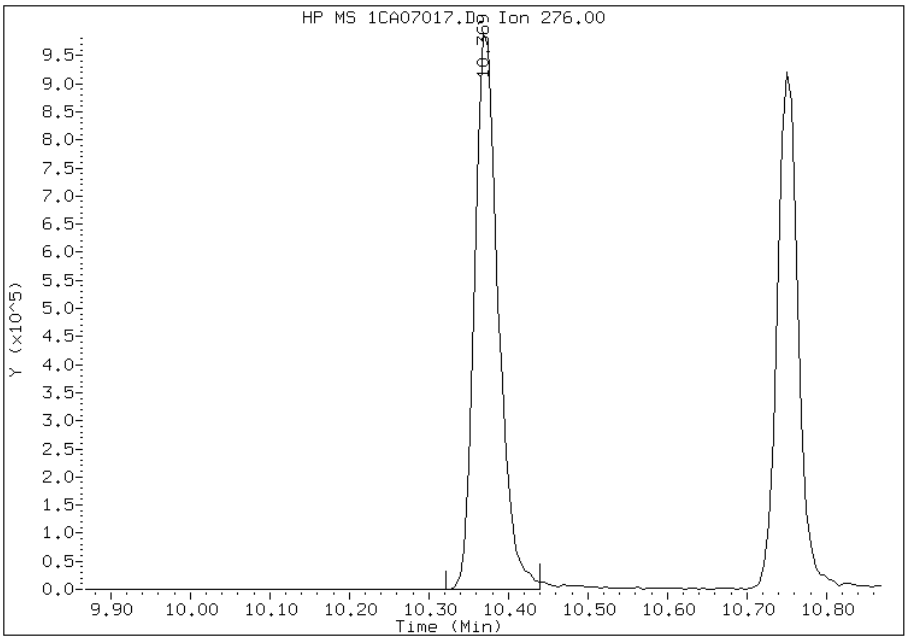
Processing Integration Results

RT: 10.37

Response: 2044337

Amount: 23

Conc: 23



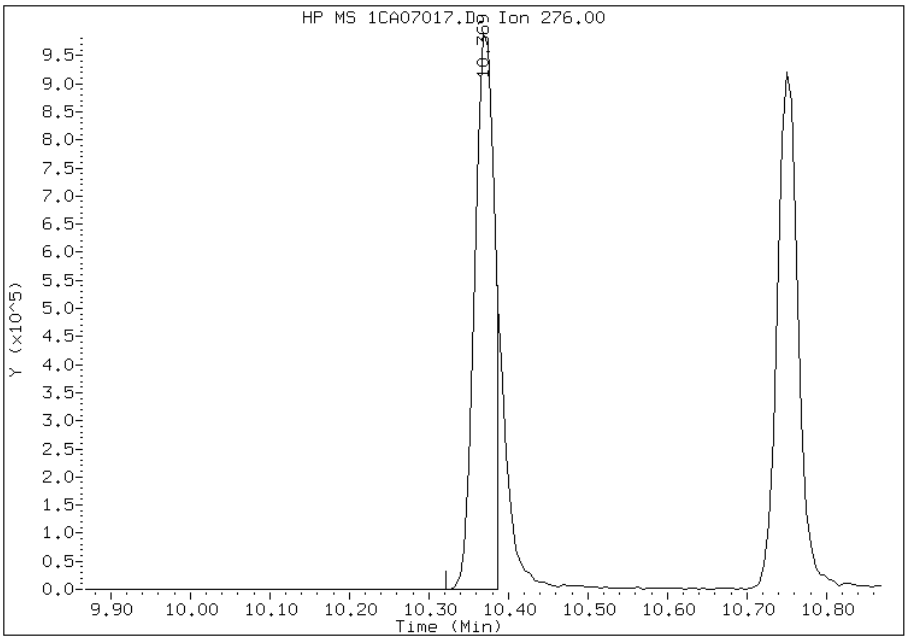
Manual Integration Results

RT: 10.37

Response: 1706161

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

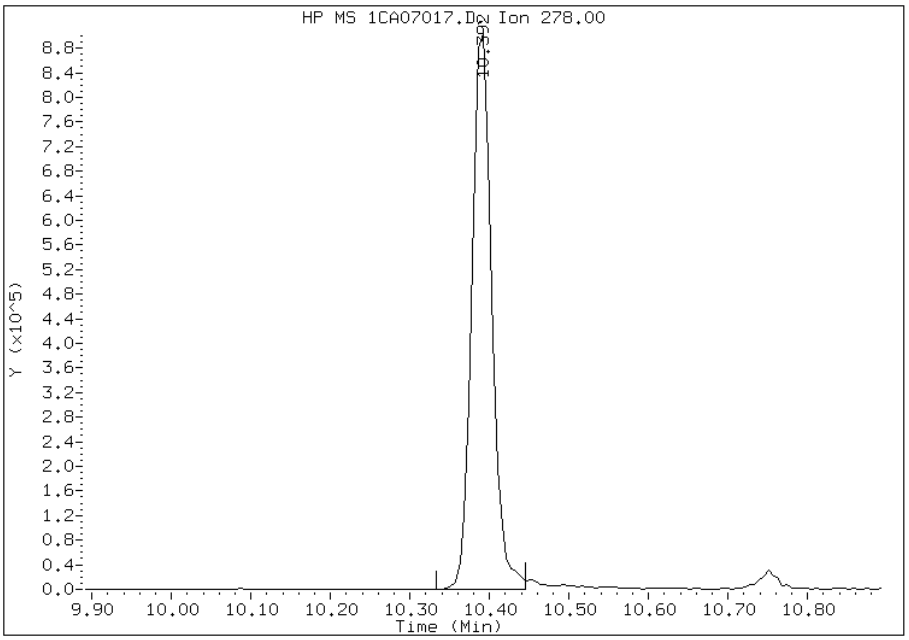
Processing Integration Results

RT: 10.39

Response: 1569221

Amount: 19

Conc: 19



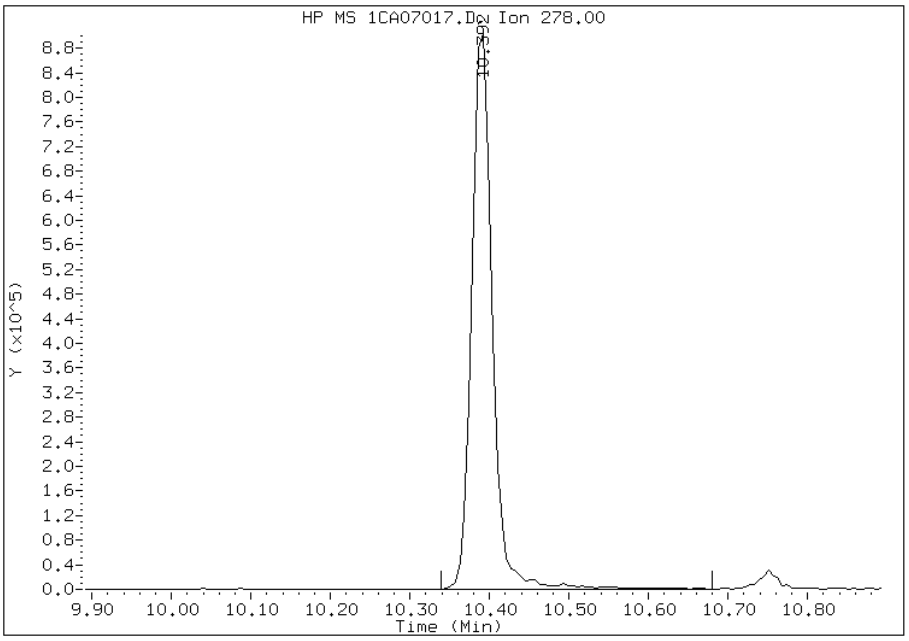
Manual Integration Results

RT: 10.39

Response: 1627151

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

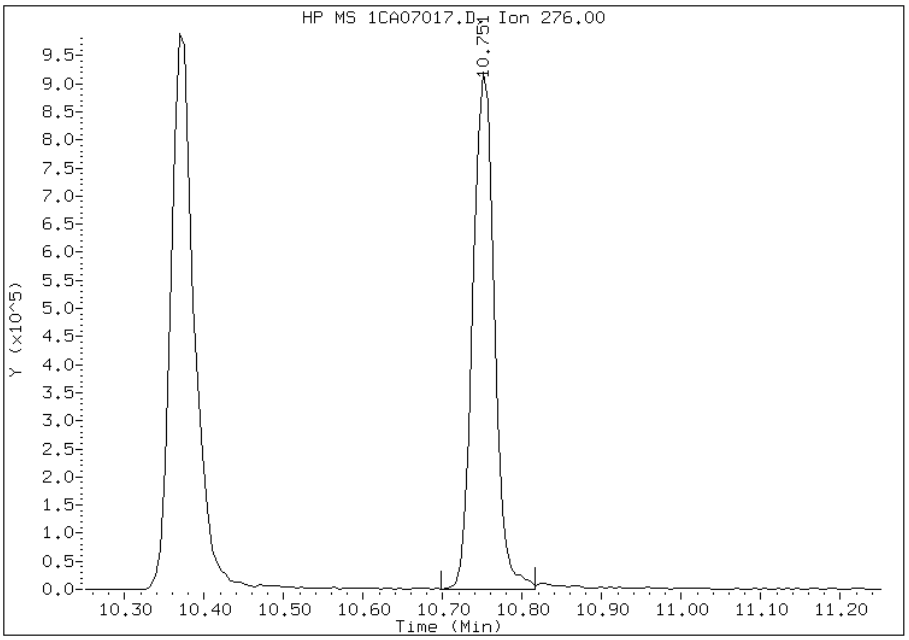
Processing Integration Results

RT: 10.75

Response: 1711397

Amount: 19

Conc: 19



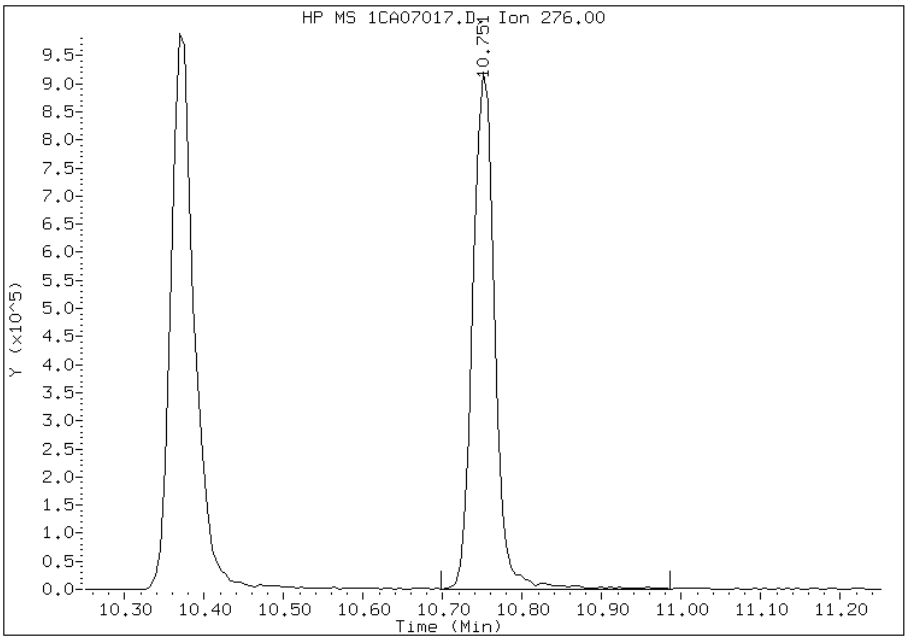
Manual Integration Results

RT: 10.75

Response: 1745002

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07018.D
Lab Smp Id: IC-1489899
Inj Date : 07-JAN-2013 16:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:36 Cal File: 1CA07017.D
Als bottle: 18 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2206384	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1682844	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	3224181	40.0000	
$ 14 o-Terphenyl	230	6.169	6.169	(1.043)	1447125	30.0000	30.6324
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3659777	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3629385	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1744899	30.0000	29.8445
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1125305	30.0000	29.6006
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1099203	30.0000	31.7916
5 Acenaphthylene	152	4.869	4.869	(0.982)	2078096	30.0000	31.0392
7 Acenaphthene	154	4.974	4.974	(1.004)	1212087	30.0000	28.8657
9 Fluorene	166	5.298	5.298	(1.069)	1642686	30.0000	30.4758
11 Phenanthrene	178	5.927	5.927	(1.002)	2725408	30.0000	28.3189
12 Anthracene	178	5.963	5.963	(1.008)	2681981	30.0000	30.9308
13 Carbazole	167	6.074	6.074	(1.027)	2392859	30.0000	31.7704
15 Fluoranthene	202	6.774	6.774	(1.145)	2977438	30.0000	31.6615
16 Pyrene	202	6.945	6.945	(0.883)	3254878	30.0000	33.4065
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	2964525	30.0000	29.3740
19 Chrysene	228	7.886	7.886	(1.002)	3031738	30.0000	29.0818
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	2773683	30.0000	31.1717
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	3267104	30.0000	33.3285
22 Benzo(a)pyrene	252	9.057	9.057	(0.994)	2808161	30.0000	33.1659
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.139)	2564602	30.0000	35.6443(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	2451088	30.0000	31.9610
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	2713188	30.0000	32.8438

QC Flag Legend

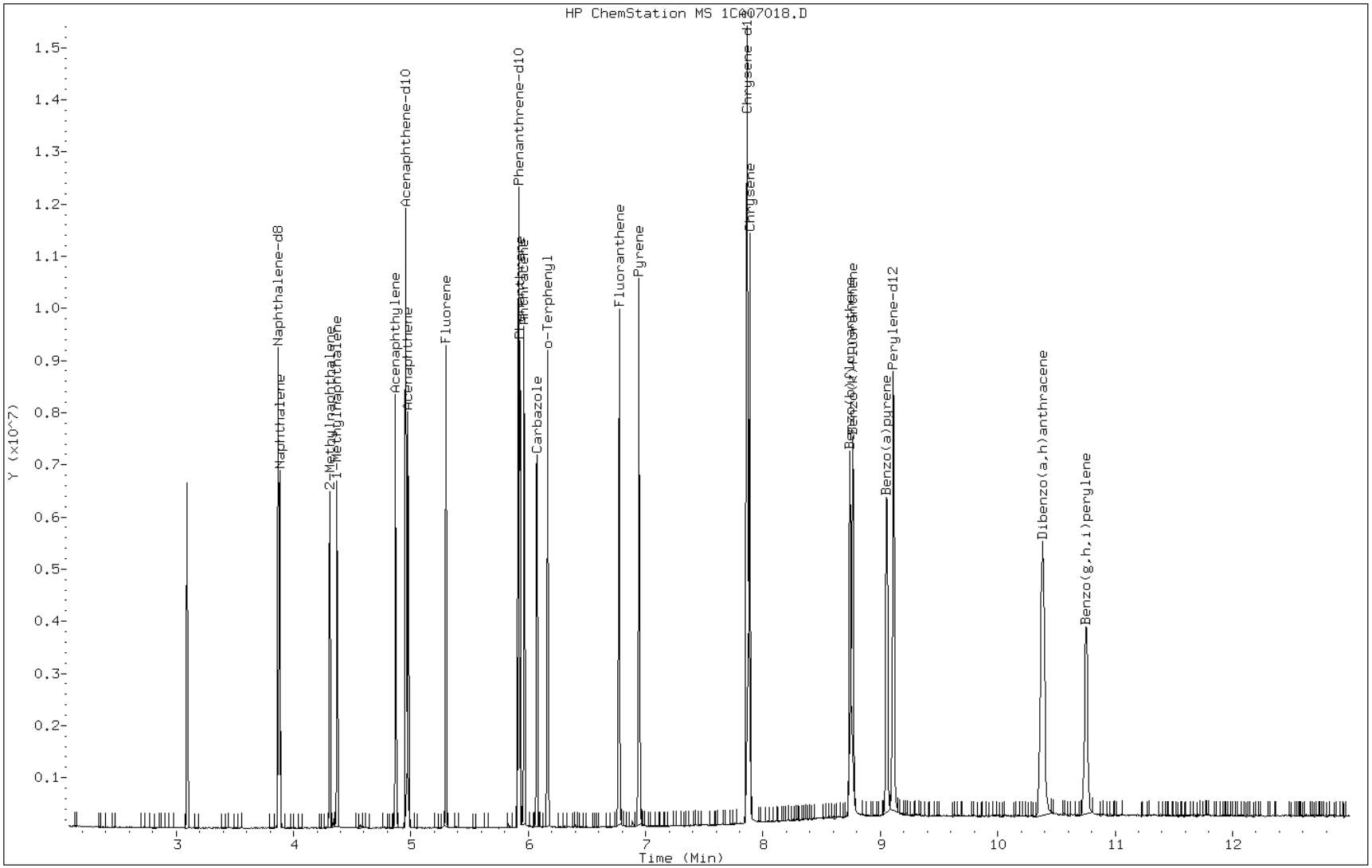
M - Compound response manually integrated.

Data File: 1CA07018.D

Date: 07-JAN-2013 16:54

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489899 Operator: SCC



Manual Integration Report

Data File: 1CA07018.D
Inj. Date and Time: 07-JAN-2013 16:54
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

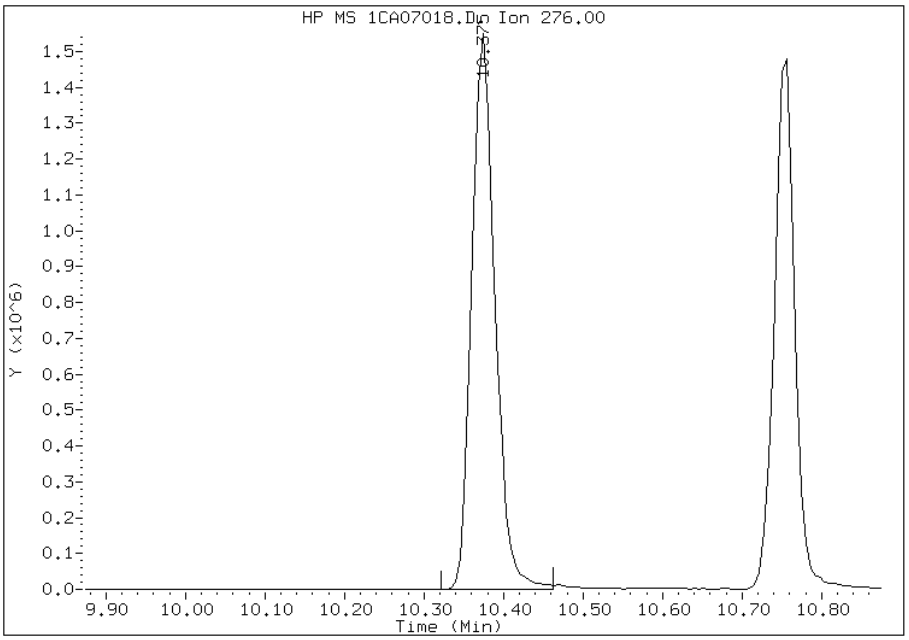
Processing Integration Results

RT: 10.37

Response: 3123860

Amount: 35

Conc: 35



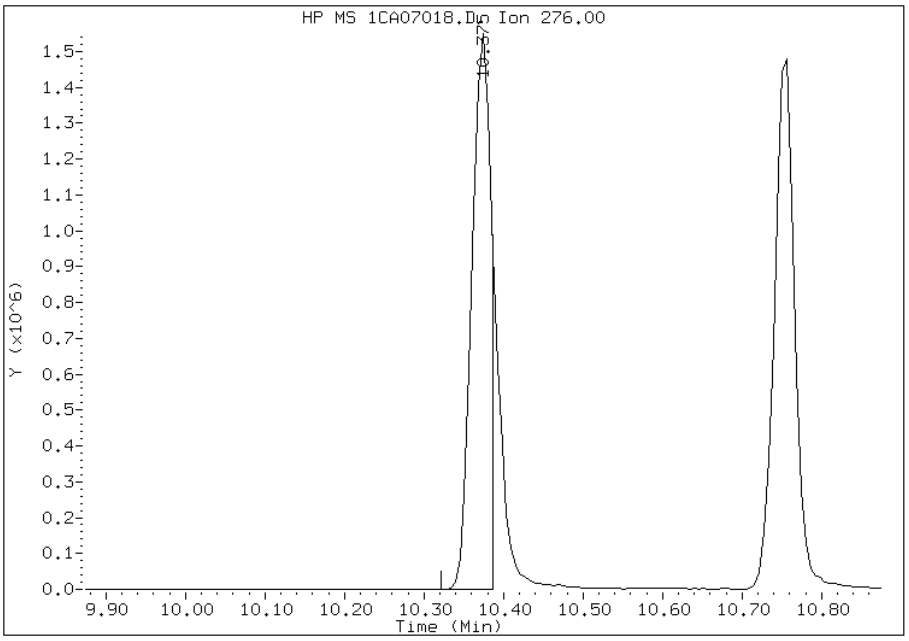
Manual Integration Results

RT: 10.37

Response: 2564602

Amount: 36

Conc: 36



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07019.D
Lab Smp Id: IC-1489900
Inj Date : 07-JAN-2013 17:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:41 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:54 Cal File: 1CA07018.D
Als bottle: 19 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	1965517	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1517262	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2863889	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	2145891	50.0000	51.1382(A)
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3447806	40.0000	
* 23 Perylene-d12	264	9.115	9.115	(1.000)	3425001	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	2683662	50.0000	51.5260(A)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1715115	50.0000	50.6441(A)
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1642265	50.0000	53.3190(A)
5 Acenaphthylene	152	4.869	4.869	(0.982)	3143102	50.0000	52.0699(A)
7 Acenaphthene	154	4.974	4.974	(1.004)	1826987	50.0000	48.2578
9 Fluorene	166	5.298	5.298	(1.069)	2448772	50.0000	50.3886(A)
11 Phenanthrene	178	5.933	5.933	(1.003)	3980821	50.0000	46.5673
12 Anthracene	178	5.963	5.963	(1.008)	4020655	50.0000	52.2031(A)
13 Carbazole	167	6.074	6.074	(1.027)	3531798	50.0000	52.7916(A)
15 Fluoranthene	202	6.774	6.774	(1.145)	4473693	50.0000	53.5573(A)
16 Pyrene	202	6.945	6.945	(0.883)	4789001	50.0000	52.1740(A)
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	4538204	50.0000	47.7313
19 Chrysene	228	7.892	7.892	(1.003)	4663655	50.0000	47.4863
20 Benzo(b)fluoranthene	252	8.745	8.745	(0.959)	4834833	50.0000	57.5782(A)
21 Benzo(k)fluoranthene	252	8.768	8.768	(0.962)	4750961	50.0000	51.3578(A)
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	4467973	50.0000	55.9181(A)
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.138)	3772962	50.0000	55.5680(AM)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	3909634	50.0000	54.0220(A)
26 Benzo(g,h,i)perylene	276	10.762	10.762	(1.181)	4151782	50.0000	53.2574(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CA07019.D

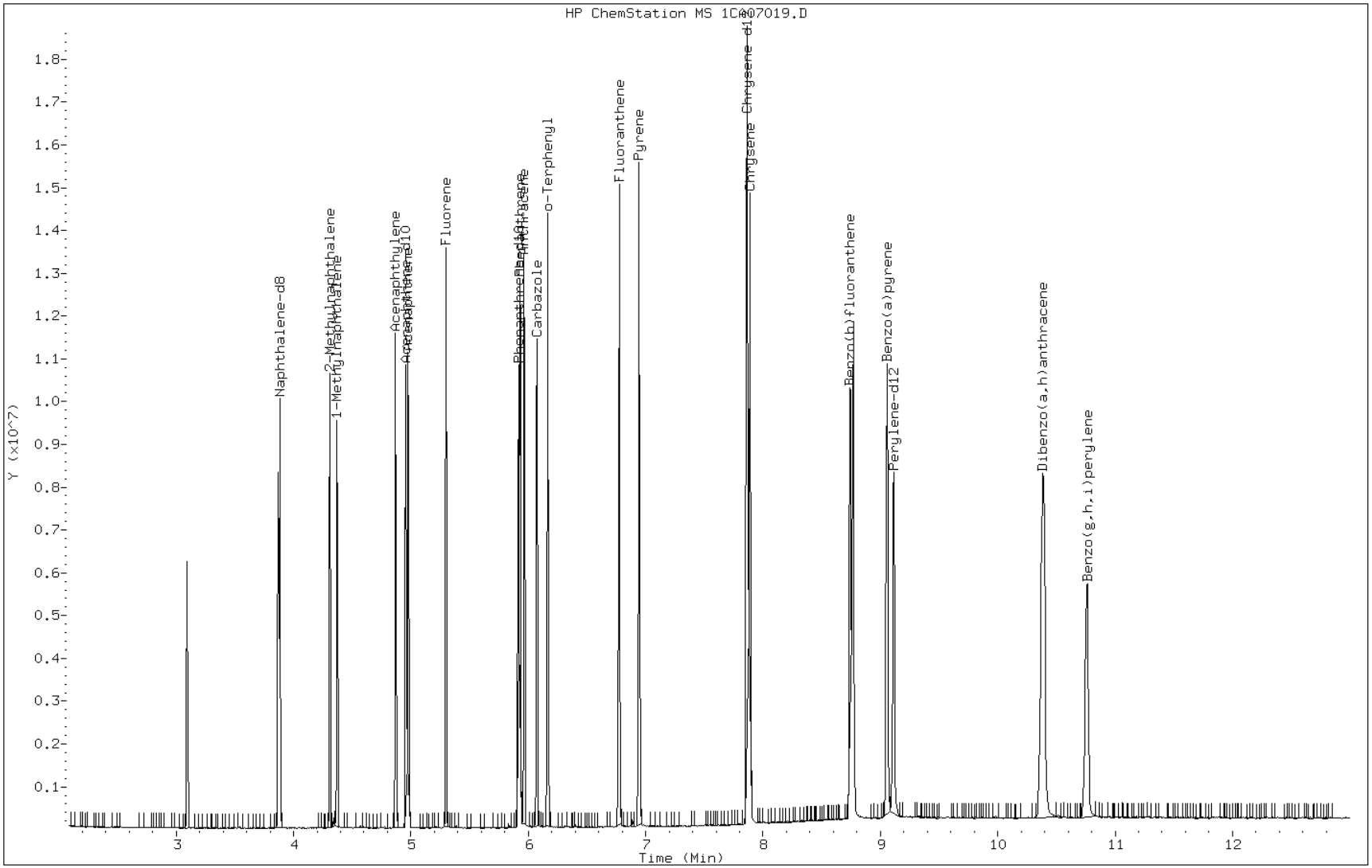
Date: 07-JAN-2013 17:13

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1489900

Operator: SCC



Manual Integration Report

Data File: 1CA07019.D
Inj. Date and Time: 07-JAN-2013 17:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

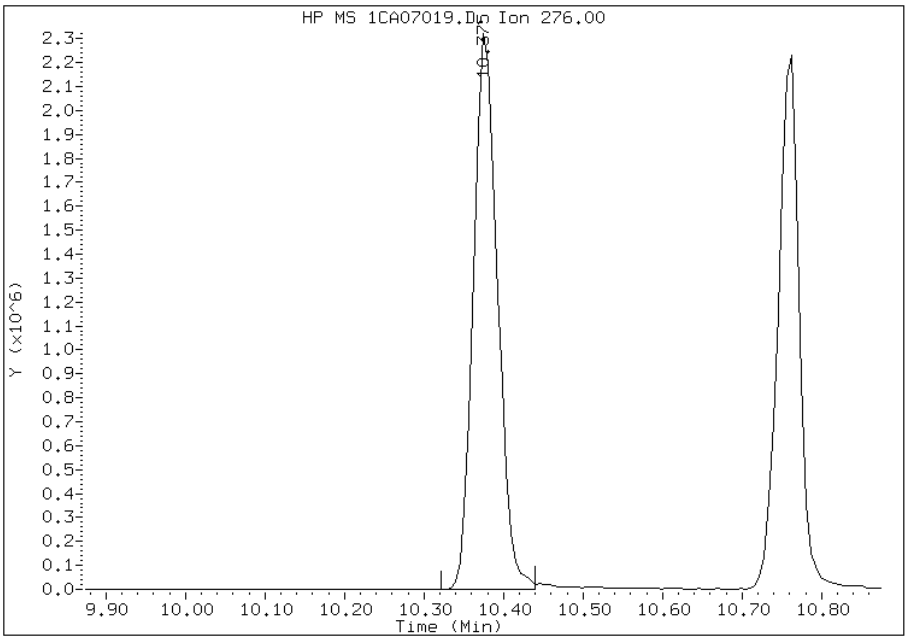
Processing Integration Results

RT: 10.37

Response: 4872897

Amount: 57

Conc: 57



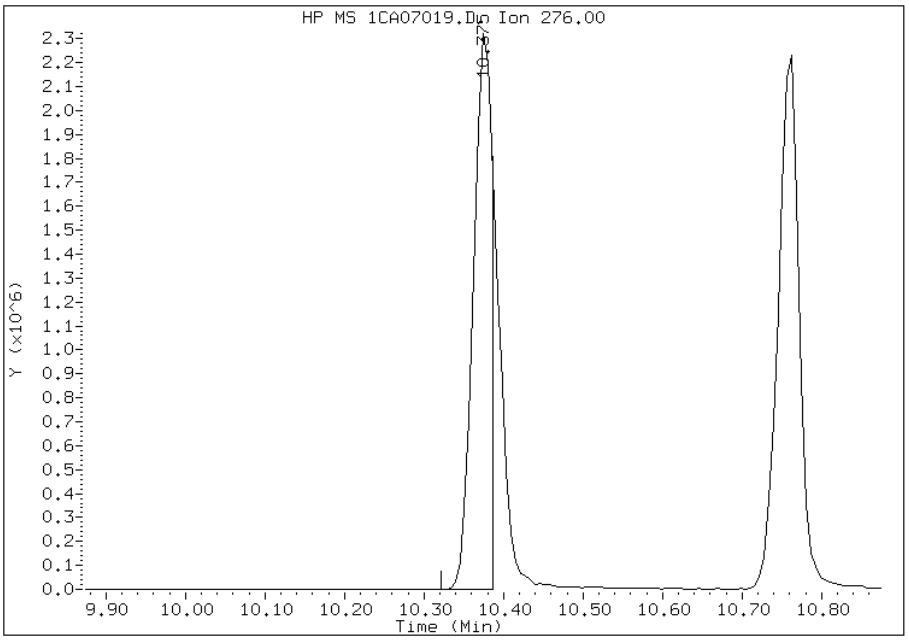
Manual Integration Results

RT: 10.37

Response: 3772962

Amount: 56

Conc: 56



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:40
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab Sample ID: ICV 660-133924/10 Calibration Date: 01/30/2013 13:35

Instrument ID: BSMA5973 Calib Start Date: 01/30/2013 11:38

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/30/2013 13:20

Lab File ID: 1AA30010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9709	1.081	0.0000	22300	20000	11.3	35.0
2-Methylnaphthalene	Ave	0.5201	0.6432	0.0000	24700	20000	23.7	35.0
1-Methylnaphthalene	Ave	0.5888	0.6870	0.0000	23300	20000	16.7	35.0
Acenaphthylene	Ave	1.766	1.803	0.0000	20400	20000	2.1	35.0
Acenaphthene	Ave	0.9559	0.9878	0.0000	20700	20000	3.3	35.0
Fluorene	Ave	1.202	1.257	0.0000	20900	20000	4.6	35.0
Phenanthrene	Ave	1.092	1.109	0.0000	20300	20000	1.6	35.0
Anthracene	Ave	1.114	1.151	0.0000	20700	20000	3.4	35.0
Carbazole	Ave	0.9545	1.015	0.0000	21300	20000	6.4	35.0
Fluoranthene	Ave	1.083	1.202	0.0000	22200	20000	11.0	35.0
Pyrene	Ave	1.445	1.459	0.0000	20200	20000	1.0	35.0
Benzo[a]anthracene	LinF	1.313	1.281	0.0000	21500	20000	7.3	35.0
Chrysene	Ave	1.164	1.204	0.0000	20700	20000	3.4	35.0
Benzo[b]fluoranthene	Ave	1.116	1.303	0.0000	23300	20000	16.7	35.0
Benzo[k]fluoranthene	Ave	1.167	1.133	0.0000	19400	20000	-2.9	35.0
Benzo[a]pyrene	Ave	1.060	0.9876	0.0000	18600	20000	-6.8	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.8371	0.9115	0.0000	21800	20000	8.9	35.0
Dibenz(a,h)anthracene	Ave	0.8369	0.9680	0.0000	23100	20000	15.7	35.0
Benzo[g,h,i]perylene	Ave	0.8673	0.9214	0.0000	21200	20000	6.2	35.0
o-Terphenyl	Ave	0.5812	0.6137	0.0000	21100	20000	5.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30010.D
Lab Smp Id: ICV-1448440
Inj Date : 30-JAN-2013 13:35
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:34 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.507	2.509	(1.000)	1317903	40.0000	
* 6 Acenaphthene-d10	164	3.543	3.540	(1.000)	820848	40.0000	
* 10 Phenanthrene-d10	188	4.499	4.501	(1.000)	1272419	40.0000	
$ 14 o-Terphenyl	230	4.777	4.779	(1.062)	390413	21.1160	21.1160
* 18 Chrysene-d12	240	6.540	6.537	(1.000)	1032149	40.0000	
* 23 Perylene-d12	264	7.635	7.637	(1.000)	982321	40.0000	
2 Naphthalene	128	2.517	2.519	(1.004)	712111	22.2614	22.2614
3 2-Methylnaphthalene	141	2.923	2.925	(1.166)	423845	24.7328	24.7328
4 1-Methylnaphthalene	142	2.982	2.979	(1.190)	452724	23.3376	23.3375
5 Acenaphthylene	152	3.457	3.454	(0.976)	739875	20.4134	20.4133
7 Acenaphthene	154	3.559	3.556	(1.005)	405435	20.6673	20.6673
9 Fluorene	166	3.874	3.871	(1.093)	515972	20.9176	20.9175
11 Phenanthrene	178	4.515	4.517	(1.004)	705650	20.3109	20.3108
12 Anthracene	178	4.547	4.549	(1.011)	732417	20.6769	20.6768
13 Carbazole	167	4.702	4.704	(1.045)	645980	21.2750	21.2749(M)
15 Fluoranthene	202	5.391	5.388	(1.198)	764893	22.2062	22.2061
16 Pyrene	202	5.557	5.559	(0.850)	753079	20.2028	20.2027

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.529	6.531	(0.998)	661139	21.4526	21.4526
19 Chrysene	228	6.556	6.558	(1.002)	621167	20.6783	20.6783
20 Benzo(b)fluoranthene	252	7.357	7.359	(0.964)	639815	23.3366	23.3365
21 Benzo(k)fluoranthene	252	7.379	7.381	(0.966)	556542	19.4153	19.4152
22 Benzo(a)pyrene	252	7.587	7.594	(0.994)	485058	18.6307	18.6307
24 Indeno(1,2,3-cd)pyrene	276	8.420	8.428	(1.103)	447706	21.7774	21.7773(M)
25 Dibenzo(a,h)anthracene	278	8.436	8.444	(1.105)	475426	23.1325	23.1324
26 Benzo(g,h,i)perylene	276	8.650	8.657	(1.133)	452542	21.2477	21.2477

QC Flag Legend

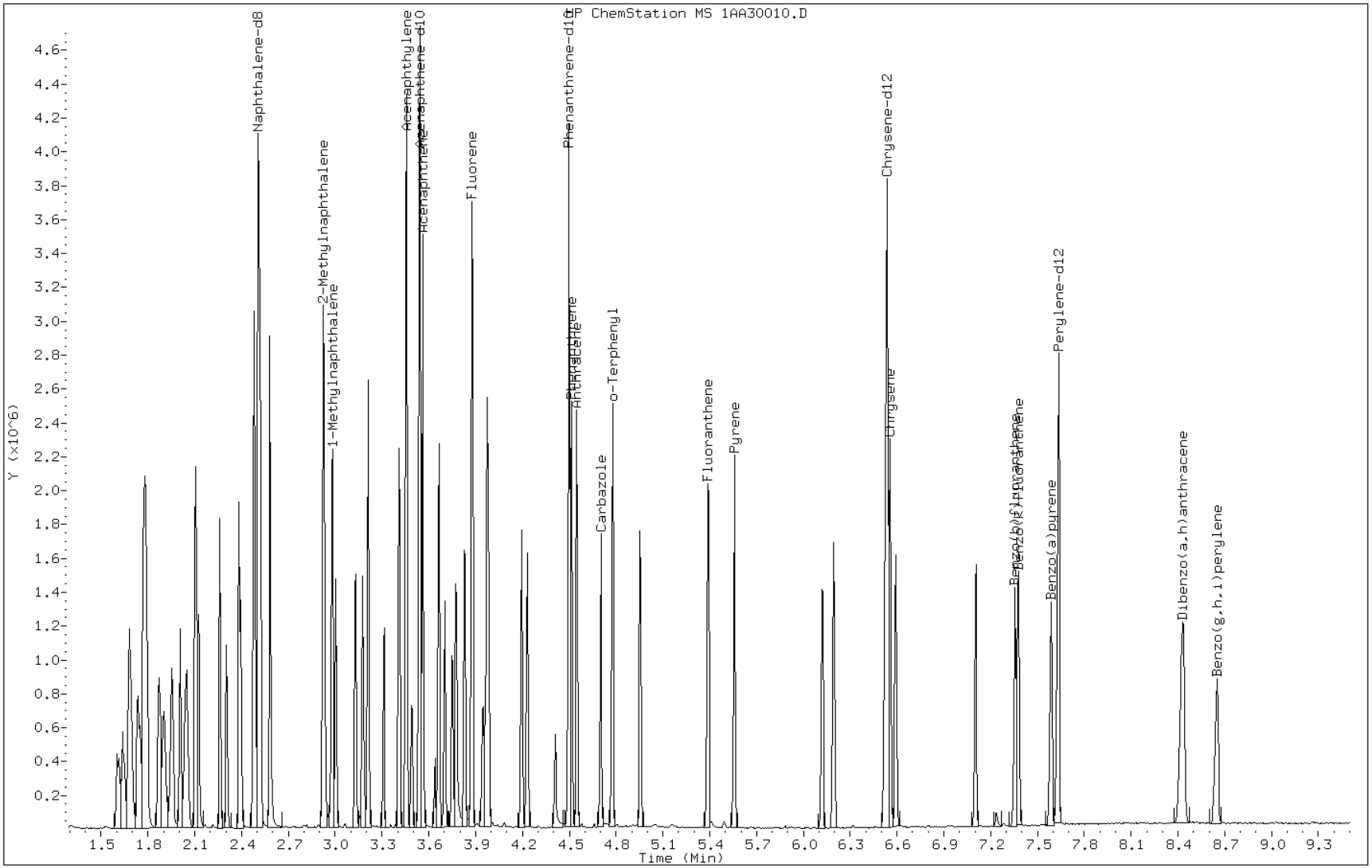
M - Compound response manually integrated.

Data File: 1AA30010.D

Date: 30-JAN-2013 13:35

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1AA30010.D
Inj. Date and Time: 30-JAN-2013 13:35
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 01/30/2013

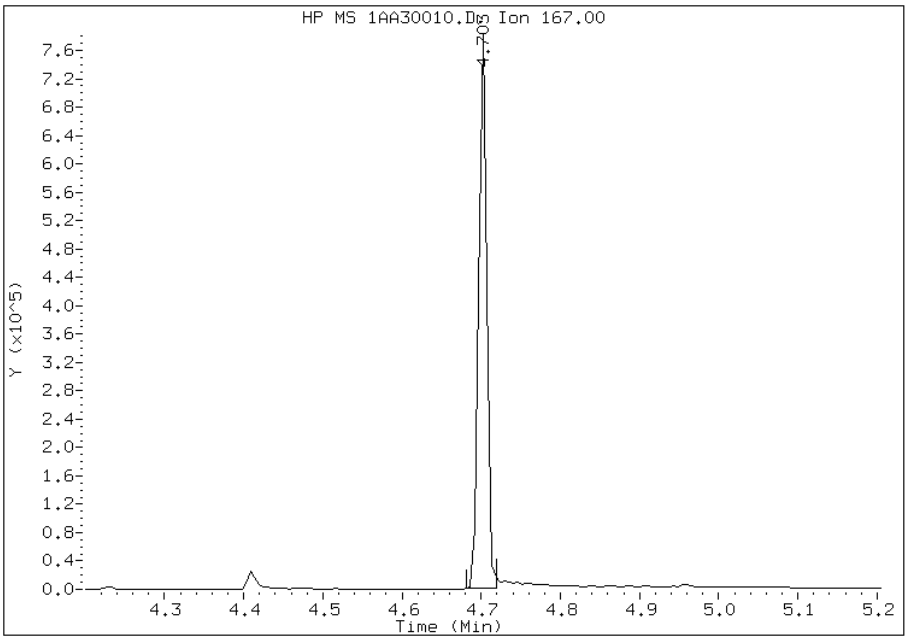
Processing Integration Results

RT: 4.70

Response: 529890

Amount: 17

Conc: 17



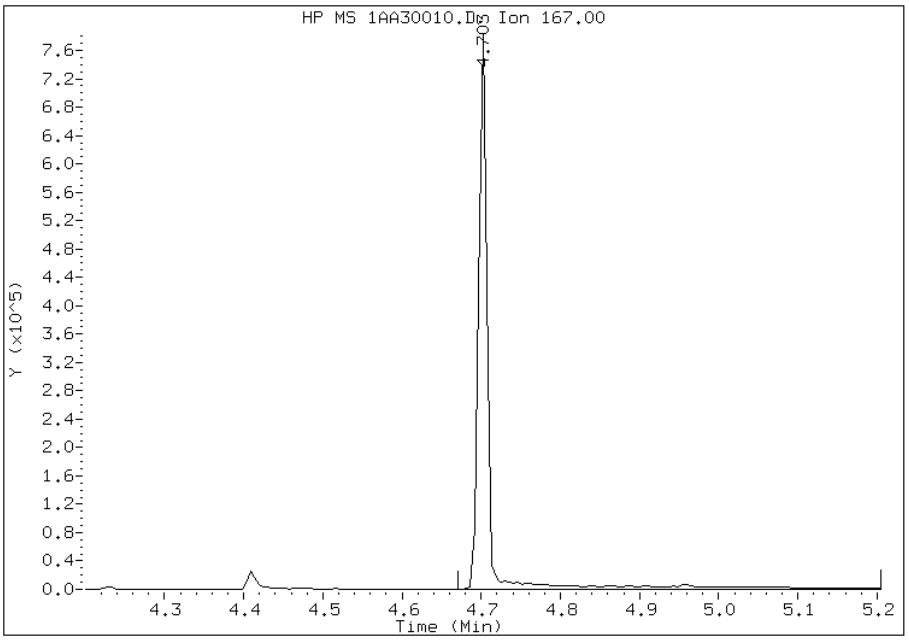
Manual Integration Results

RT: 4.70

Response: 645980

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AA30010.D
Inj. Date and Time: 30-JAN-2013 13:35
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

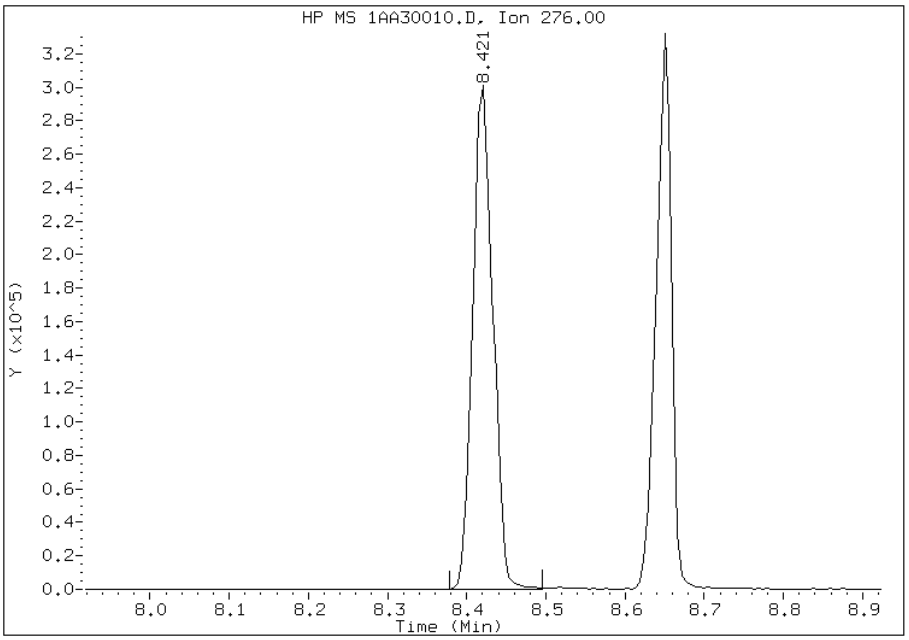
Processing Integration Results

RT: 8.42

Response: 525230

Amount: 26

Conc: 26



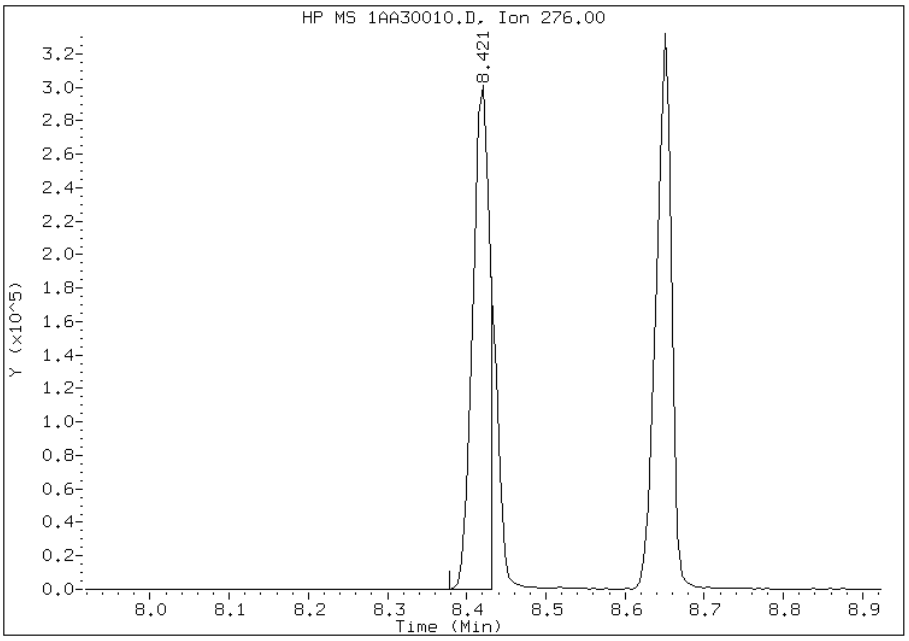
Manual Integration Results

RT: 8.42

Response: 447706

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:47
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab Sample ID: CCVIS 660-134523/3 Calibration Date: 02/14/2013 10:21

Instrument ID: BSMA5973 Calib Start Date: 01/30/2013 11:38

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/30/2013 13:20

Lab File ID: 1AB14003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9709	0.9134	0.0000	18800	20000	-5.9	20.0
2-Methylnaphthalene	Ave	0.5201	0.4836	0.0000	18600	20000	-7.0	20.0
1-Methylnaphthalene	Ave	0.5888	0.5346	0.0000	18200	20000	-9.2	20.0
Acenaphthylene	Ave	1.766	1.521	0.0000	17200	20000	-13.9	20.0
Acenaphthene	Ave	0.9559	0.8638	0.0000	18100	20000	-9.6	20.0
Fluorene	Ave	1.202	1.045	0.0000	17400	20000	-13.0	20.0
Phenanthrene	Ave	1.092	0.9849	0.0000	18000	20000	-9.8	20.0
Anthracene	Ave	1.114	0.9914	0.0000	17800	20000	-11.0	20.0
Carbazole	Ave	0.9545	0.8494	0.0000	17800	20000	-11.0	20.0
Fluoranthene	Ave	1.083	0.9879	0.0000	18200	20000	-8.8	20.0
Pyrene	Ave	1.445	1.267	0.0000	17500	20000	-12.3	20.0
Benzo[a]anthracene	LinF	1.313	1.123	0.0000	18800	20000	-6.0	20.0
Chrysene	Ave	1.164	1.025	0.0000	17600	20000	-11.9	20.0
Benzo[b]fluoranthene	Ave	1.116	1.055	0.0000	18900	20000	-5.5	20.0
Benzo[k]fluoranthene	Ave	1.167	1.001	0.0000	17100	20000	-14.3	20.0
Benzo[a]pyrene	Ave	1.060	0.9751	0.0000	18400	20000	-8.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8371	0.8841	0.0000	21100	20000	5.6	20.0
Dibenz(a,h)anthracene	Ave	0.8369	0.8865	0.0000	21200	20000	5.9	20.0
Benzo[g,h,i]perylene	Ave	0.8673	0.9191	0.0000	21200	20000	6.0	20.0
o-Terphenyl	Ave	0.5812	0.5610	0.0000	19300	20000	-3.5	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 14-FEB-2013 10:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.430	2.430	(1.000)	982183	40.0000	(H)
* 6 Acenaphthene-d10	164	3.461	3.461	(1.000)	604288	40.0000	(H)
* 10 Phenanthrene-d10	188	4.402	4.402	(1.000)	878194	40.0000	(H)
$ 14 o-Terphenyl	230	4.685	4.685	(1.064)	246331	20.0000	19.3039(H)
* 18 Chrysene-d12	240	6.426	6.426	(1.000)	720127	40.0000	(H)
* 23 Perylene-d12	264	7.527	7.527	(1.000)	750593	40.0000	(H)
2 Naphthalene	128	2.441	2.441	(1.004)	448540	20.0000	18.8146(H)
3 2-Methylnaphthalene	141	2.847	2.847	(1.171)	237471	20.0000	18.5938(H)
4 1-Methylnaphthalene	142	2.900	2.900	(1.193)	262531	20.0000	18.1590(H)
5 Acenaphthylene	152	3.371	3.371	(0.974)	459562	20.0000	17.2234(H)
7 Acenaphthene	154	3.477	3.477	(1.005)	260986	20.0000	18.0717(H)
9 Fluorene	166	3.787	3.787	(1.094)	315857	20.0000	17.3937(H)
11 Phenanthrene	178	4.418	4.418	(1.004)	432455	20.0000	18.0351(H)
12 Anthracene	178	4.455	4.455	(1.012)	435315	20.0000	17.8061(H)
13 Carbazole	167	4.610	4.610	(1.047)	372983	20.0000	17.7983(H)
15 Fluoranthene	202	5.283	5.283	(1.200)	433782	20.0000	18.2467(H)
16 Pyrene	202	5.454	5.454	(0.849)	456272	20.0000	17.5439(H)
17 Benzo(a)anthracene	228	6.416	6.416	(0.998)	404418	20.0000	18.8083(H)
19 Chrysene	228	6.448	6.448	(1.003)	369150	20.0000	17.6133(H)
20 Benzo(b)fluoranthene	252	7.244	7.244	(0.962)	395954	20.0000	18.9006(H)
21 Benzo(k)fluoranthene	252	7.265	7.265	(0.965)	375629	20.0000	17.1495(H)
22 Benzo(a)pyrene	252	7.479	7.479	(0.994)	365938	20.0000	18.3946(H)
24 Indeno(1,2,3-cd)pyrene	276	8.275	8.275	(1.099)	331783	20.0000	21.1210(MH)
25 Dibenzo(a,h)anthracene	278	8.291	8.291	(1.101)	332710	20.0000	21.1862(H)
26 Benzo(g,h,i)perylene	276	8.494	8.494	(1.128)	344948	20.0000	21.1961(H)

QC Flag Legend

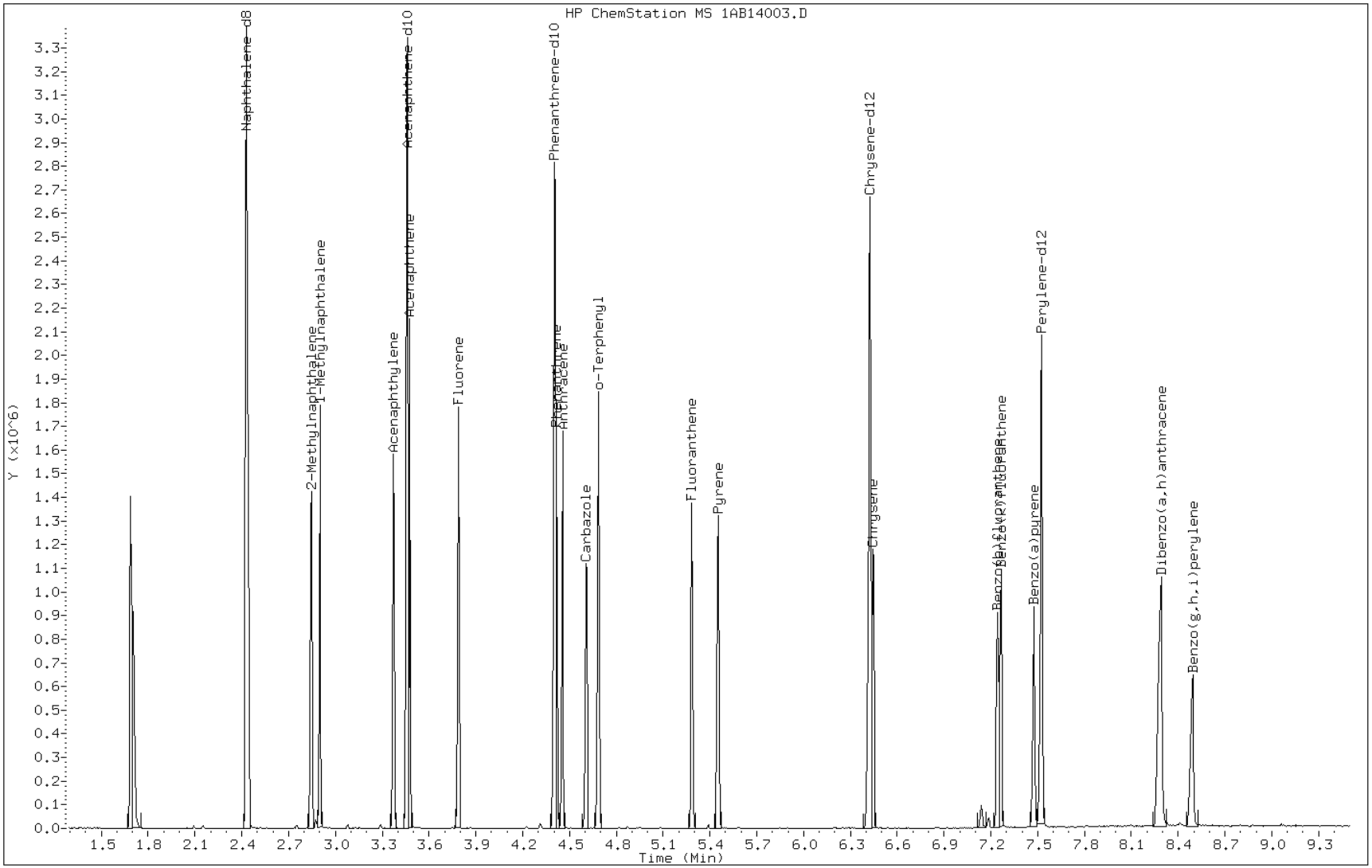
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14003.D

Date: 14-FEB-2013 10:21

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1AB14003.D
Inj. Date and Time: 14-FEB-2013 10:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

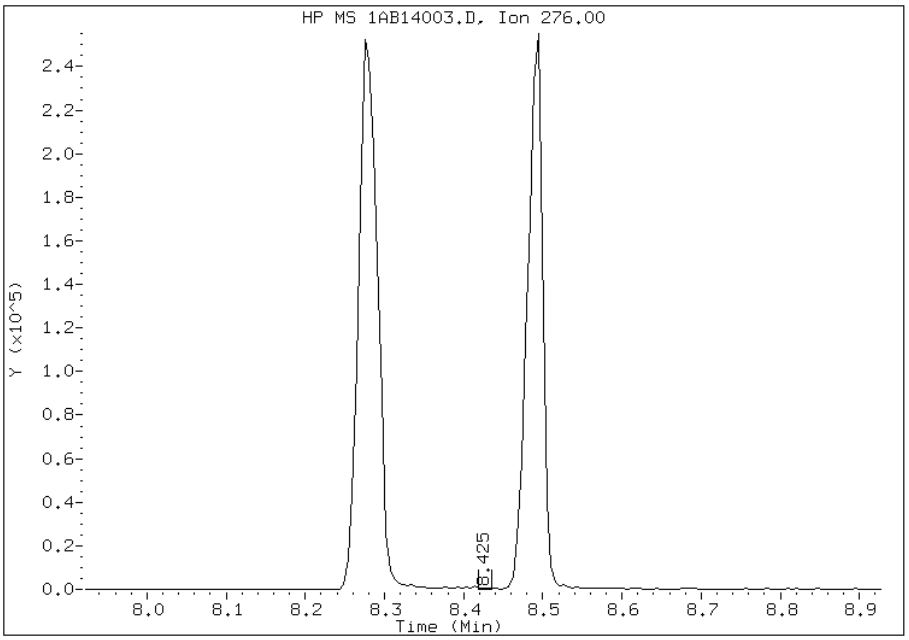
Processing Integration Results

RT: 8.42

Response: 865

Amount: 0

Conc: 0



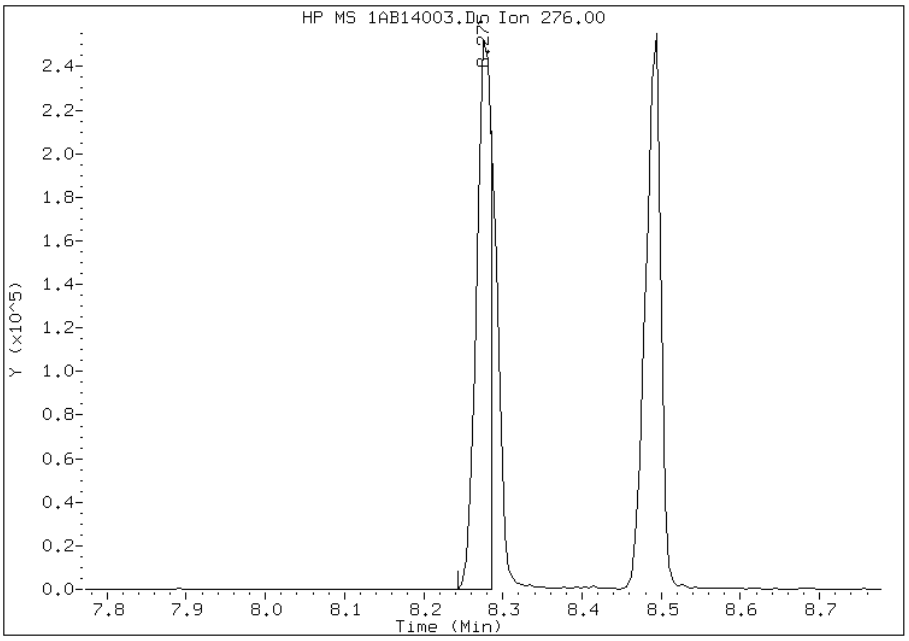
Manual Integration Results

RT: 8.28

Response: 331783

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 10:34
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab Sample ID: CCVIS 660-134532/8 Calibration Date: 02/15/2013 15:21

Instrument ID: BSMA5973 Calib Start Date: 01/30/2013 11:38

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/30/2013 13:20

Lab File ID: 1AB15006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9709	0.9256	0.0000	19100	20000	-4.7	20.0
2-Methylnaphthalene	Ave	0.5201	0.4843	0.0000	18600	20000	-6.9	20.0
1-Methylnaphthalene	Ave	0.5888	0.5342	0.0000	18100	20000	-9.3	20.0
Acenaphthylene	Ave	1.766	1.569	0.0000	17800	20000	-11.2	20.0
Acenaphthene	Ave	0.9559	0.8712	0.0000	18200	20000	-8.9	20.0
Fluorene	Ave	1.202	1.114	0.0000	18500	20000	-7.3	20.0
Phenanthrene	Ave	1.092	1.004	0.0000	18400	20000	-8.1	20.0
Anthracene	Ave	1.114	1.000	0.0000	18000	20000	-10.2	20.0
Carbazole	Ave	0.9545	0.8604	0.0000	18000	20000	-9.9	20.0
Fluoranthene	Ave	1.083	1.011	0.0000	18700	20000	-6.6	20.0
Pyrene	Ave	1.445	1.277	0.0000	17700	20000	-11.6	20.0
Benzo[a]anthracene	LinF	1.313	1.103	0.0000	18500	20000	-7.6	20.0
Chrysene	Ave	1.164	1.078	0.0000	18500	20000	-7.4	20.0
Benzo[b]fluoranthene	Ave	1.116	0.9929	0.0000	17800	20000	-11.1	20.0
Benzo[k]fluoranthene	Ave	1.167	1.089	0.0000	18700	20000	-6.7	20.0
Benzo[a]pyrene	Ave	1.060	0.9707	0.0000	18300	20000	-8.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8371	0.9032	0.0000	21600	20000	7.9	20.0
Dibenz(a,h)anthracene	Ave	0.8369	0.7994	0.0000	19100	20000	-4.5	20.0
Benzo[g,h,i]perylene	Ave	0.8673	0.7939	0.0000	18300	20000	-8.5	20.0
o-Terphenyl	Ave	0.5812	0.5665	0.0000	19500	20000	-2.5	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15006.D
Lab Smp Id: CCVIS-1489898
Inj Date : 15-FEB-2013 15:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.415	2.415	(1.000)	1368017	40.0000	(H)
* 6 Acenaphthene-d10	164	3.441	3.441	(1.000)	840321	40.0000	(H)
* 10 Phenanthrene-d10	188	4.386	4.386	(1.000)	1266854	40.0000	(H)
$ 14 o-Terphenyl	230	4.664	4.664	(1.063)	358819	20.0000	19.4924(H)
* 18 Chrysene-d12	240	6.411	6.411	(1.000)	1066498	40.0000	(H)
* 23 Perylene-d12	264	7.501	7.501	(1.000)	1048533	40.0000	(H)
2 Naphthalene	128	2.426	2.426	(1.004)	633095	20.0000	19.0662(H)
3 2-Methylnaphthalene	141	2.832	2.832	(1.173)	331256	20.0000	18.6218(H)
4 1-Methylnaphthalene	142	2.885	2.885	(1.195)	365397	20.0000	18.1459(H)
5 Acenaphthylene	152	3.355	3.355	(0.975)	659230	20.0000	17.7668(H)
7 Acenaphthene	154	3.462	3.462	(1.006)	366021	20.0000	18.2258(H)
9 Fluorene	166	3.772	3.772	(1.096)	468236	20.0000	18.5424(H)
11 Phenanthrene	178	4.402	4.402	(1.004)	635753	20.0000	18.3794(H)
12 Anthracene	178	4.434	4.434	(1.011)	633384	20.0000	17.9596(H)
13 Carbazole	167	4.589	4.589	(1.046)	545009	20.0000	18.0284(H)
15 Fluoranthene	202	5.262	5.262	(1.200)	640457	20.0000	18.6752(H)
16 Pyrene	202	5.433	5.433	(0.848)	680876	20.0000	17.6774(H)
17 Benzo(a)anthracene	228	6.395	6.395	(0.997)	588343	20.0000	18.4756(H)
19 Chrysene	228	6.427	6.427	(1.002)	574660	20.0000	18.5139(H)
20 Benzo(b)fluoranthene	252	7.217	7.217	(0.962)	520555	20.0000	17.7877(H)
21 Benzo(k)fluoranthene	252	7.239	7.239	(0.965)	571010	20.0000	18.6620(H)
22 Benzo(a)pyrene	252	7.452	7.452	(0.994)	508919	20.0000	18.3128(H)
24 Indeno(1,2,3-cd)pyrene	276	8.238	8.238	(1.098)	473511	20.0000	21.5781(MH)
25 Dibenzo(a,h)anthracene	278	8.254	8.254	(1.100)	419118	20.0000	19.1049(H)
26 Benzo(g,h,i)perylene	276	8.446	8.446	(1.126)	416199	20.0000	18.3073(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB15006.D

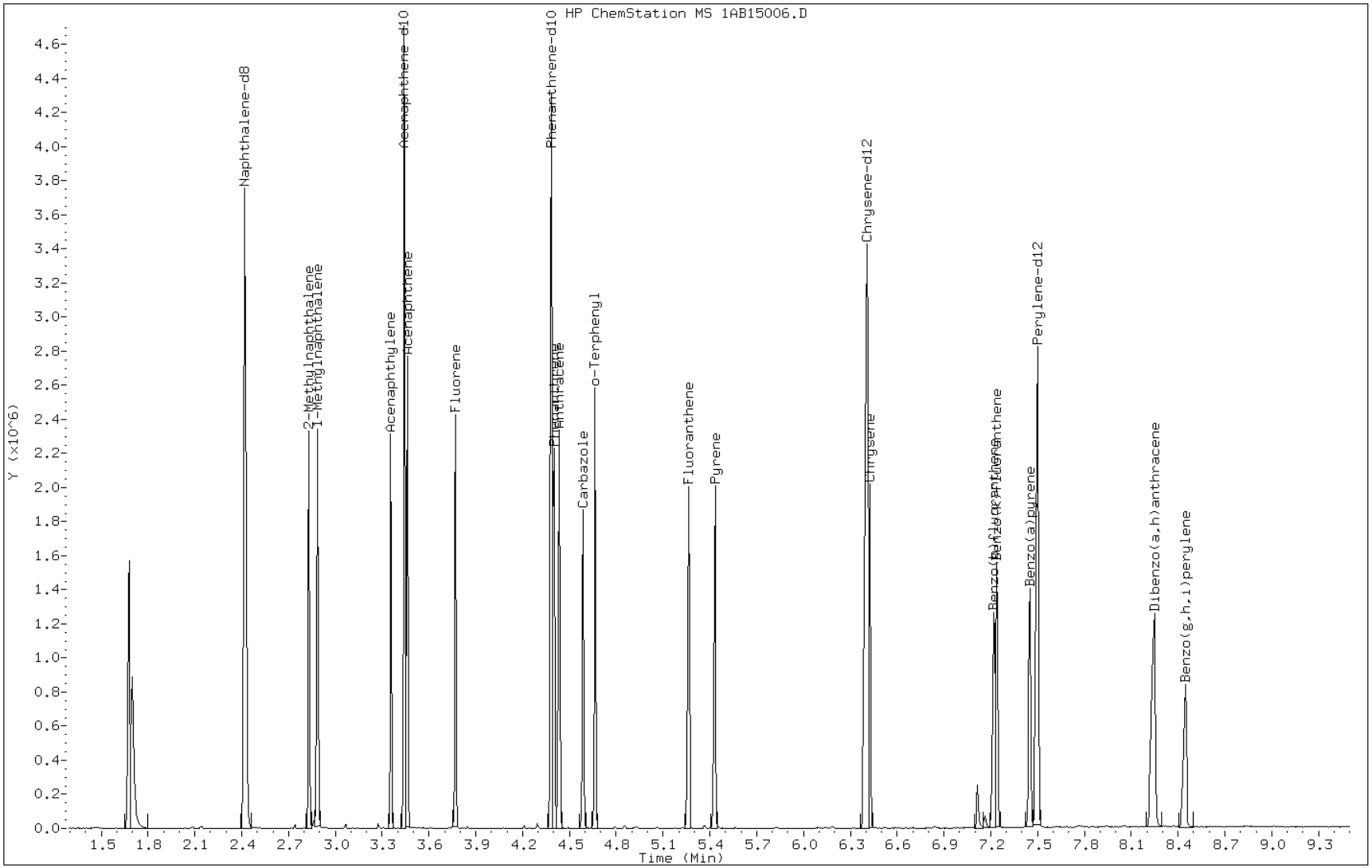
Date: 15-FEB-2013 15:21

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1489898

Operator: SCC



Manual Integration Report

Data File: 1AB15006.D
Inj. Date and Time: 15-FEB-2013 15:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

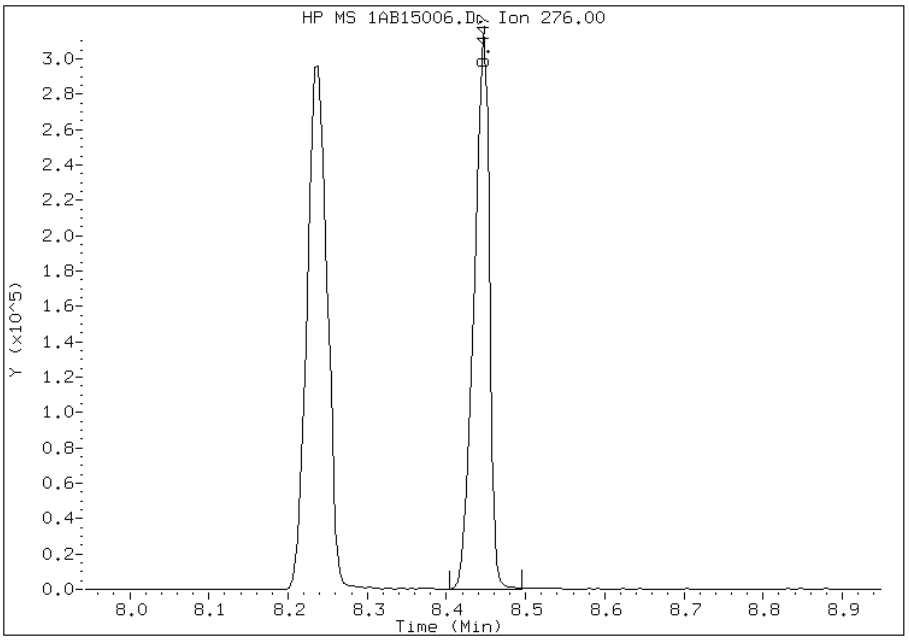
Processing Integration Results

RT: 8.45

Response: 416199

Amount: 19

Conc: 19



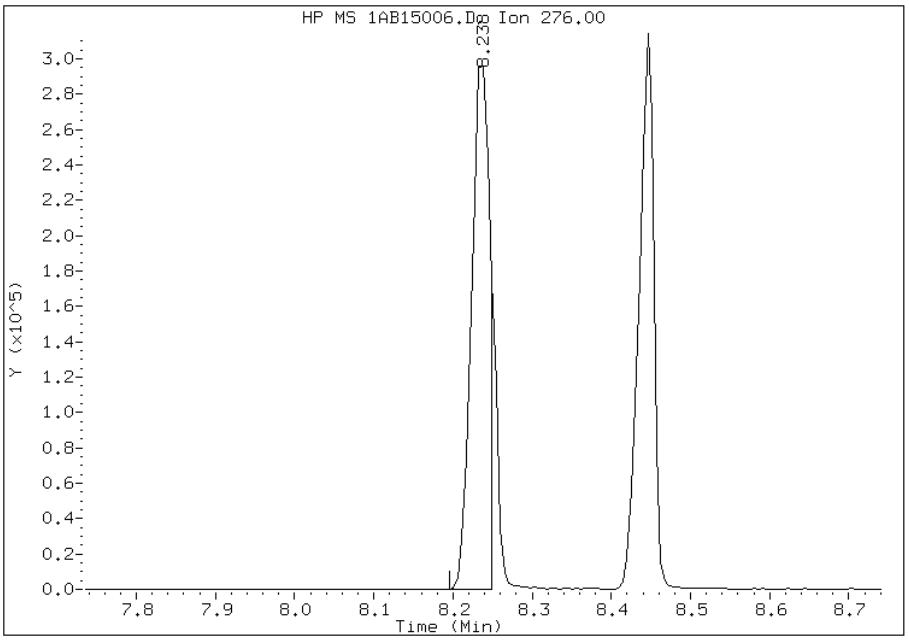
Manual Integration Results

RT: 8.24

Response: 473511

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 15:35
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab Sample ID: ICV 660-133227/10 Calibration Date: 01/07/2013 17:31

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CA07020.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.007	0.0000	19000	20000	-5.0	35.0
2-Methylnaphthalene	Ave	0.6892	0.6589	0.0000	19100	20000	-4.4	35.0
1-Methylnaphthalene	Ave	0.6268	0.6593	0.0000	21000	20000	5.2	35.0
Acenaphthylene	Ave	1.591	1.636	0.0000	20600	20000	2.8	35.0
Acenaphthene	Ave	0.998	0.995	0.0000	19900	20000	-0.3	35.0
Fluorene	Ave	1.281	1.256	0.0000	19600	20000	-1.9	35.0
Phenanthrene	Ave	1.194	1.049	0.0000	17600	20000	-12.2	35.0
Anthracene	Ave	1.076	1.057	0.0000	19700	20000	-1.7	35.0
Carbazole	Ave	0.9344	0.9714	0.0000	20800	20000	4.0	35.0
Fluoranthene	Ave	1.167	1.235	0.0000	21200	20000	5.9	35.0
Pyrene	Ave	1.065	1.062	0.0000	19900	20000	-0.3	35.0
Benzo[a]anthracene	Ave	1.103	1.074	0.0000	19500	20000	-2.6	35.0
Chrysene	Ave	1.139	1.025	0.0000	18000	20000	-10.0	35.0
Benzo[b]fluoranthene	Ave	0.9807	0.9511	0.0000	19400	20000	-3.0	35.0
Benzo[k]fluoranthene	Ave	1.080	1.106	0.0000	20500	20000	2.4	35.0
Benzo[a]pyrene	Ave	0.9332	0.8638	0.0000	18500	20000	-7.4	35.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8346	0.0000	18600	20000	-6.9	35.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8921	0.0000	21100	20000	5.5	35.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8897	0.0000	19500	20000	-2.3	35.0
o-Terphenyl	Ave	0.5861	0.5611	0.0000	19100	20000	-4.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07020.D
Lab Smp Id: ICV-1448440
Inj Date : 07-JAN-2013 17:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:43 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 20 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2417094	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1838803	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.916	(1.000)	3573060	40.0000	
$ 14 o-Terphenyl	230	6.168	6.169	(1.043)	1002344	19.1457	19.1456
* 18 Chrysene-d12	240	7.868	7.869	(1.000)	4267463	40.0000	
* 23 Perylene-d12	264	9.115	9.116	(1.000)	4342564	40.0000	
2 Naphthalene	128	3.880	3.881	(1.003)	1216880	18.9990	18.9989
3 2-Methylnaphthalene	142	4.310	4.309	(1.114)	796260	19.1194	19.1193
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	796834	21.0373	21.0373
5 Acenaphthylene	152	4.868	4.869	(0.982)	1503892	20.5575	20.5575
7 Acenaphthene	154	4.980	4.975	(1.005)	914978	19.9420	19.9419
9 Fluorene	166	5.298	5.298	(1.069)	1155136	19.6129	19.6129
11 Phenanthrene	178	5.933	5.934	(1.003)	1873312	17.5645	17.5644
12 Anthracene	178	5.963	5.963	(1.008)	1888199	19.6500	19.6500
13 Carbazole	167	6.074	6.075	(1.027)	1735453	20.7921	20.7920
15 Fluoranthene	202	6.774	6.775	(1.145)	2206550	21.1730	21.1730
16 Pyrene	202	6.945	6.945	(0.883)	2266055	19.9459	19.9458

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.862	7.863	(0.999)	2292513	19.4807	19.4807
19 Chrysene	228	7.886	7.892	(1.002)	2187685	17.9970	17.9969
20 Benzo(b)fluoranthene	252	8.739	8.745	(0.959)	2065017	19.3961	19.3961
21 Benzo(k)fluoranthene	252	8.762	8.769	(0.961)	2402437	20.4829	20.4829
22 Benzo(a)pyrene	252	9.051	9.057	(0.993)	1875598	18.5138	18.5138
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.375	(1.137)	1812061	18.6227	18.6226(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	1936939	21.1089	21.1088
26 Benzo(g,h,i)perylene	276	10.750	10.763	(1.179)	1931721	19.5436	19.5436

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CA07020.D

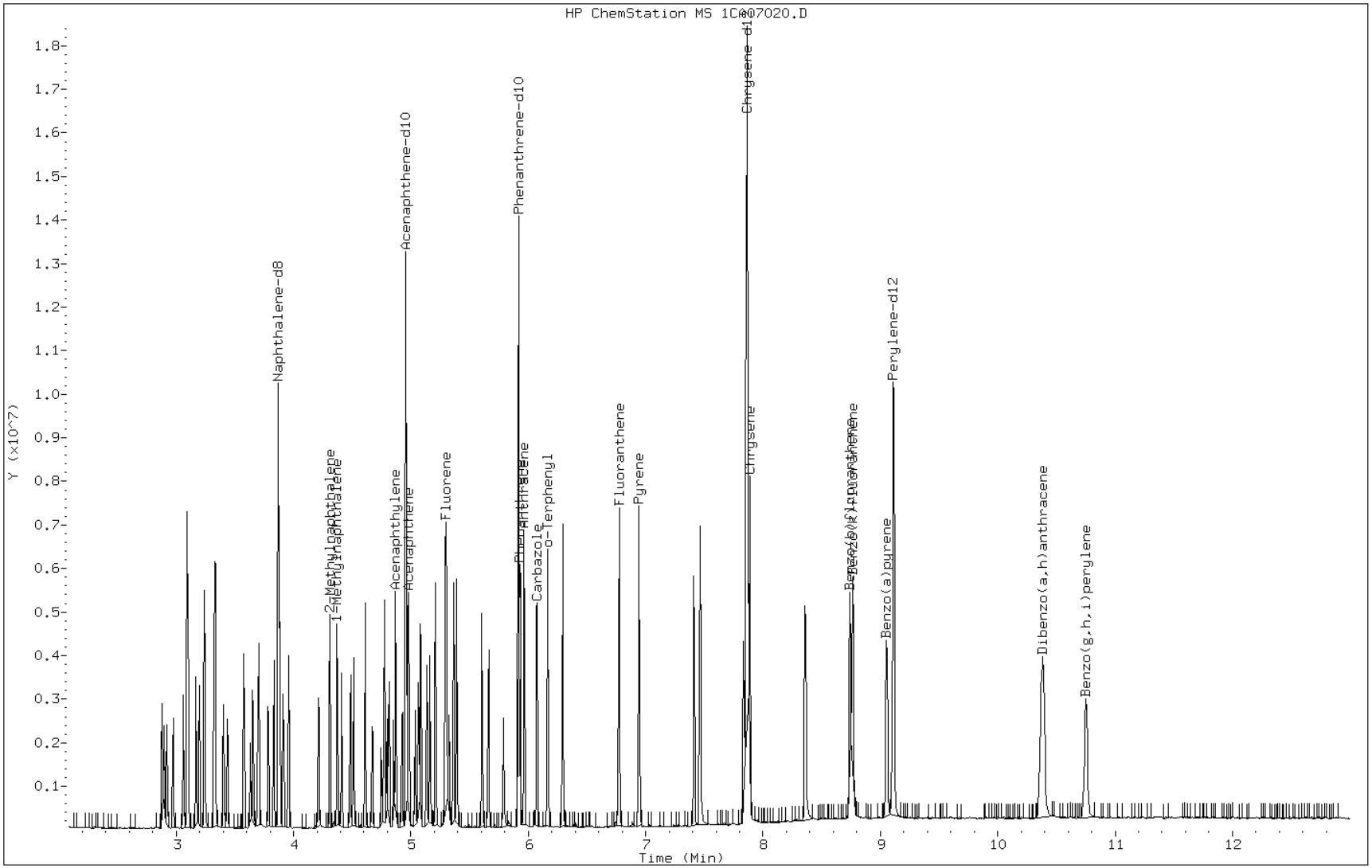
Date: 07-JAN-2013 17:31

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CA07020.D
Inj. Date and Time: 07-JAN-2013 17:31
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

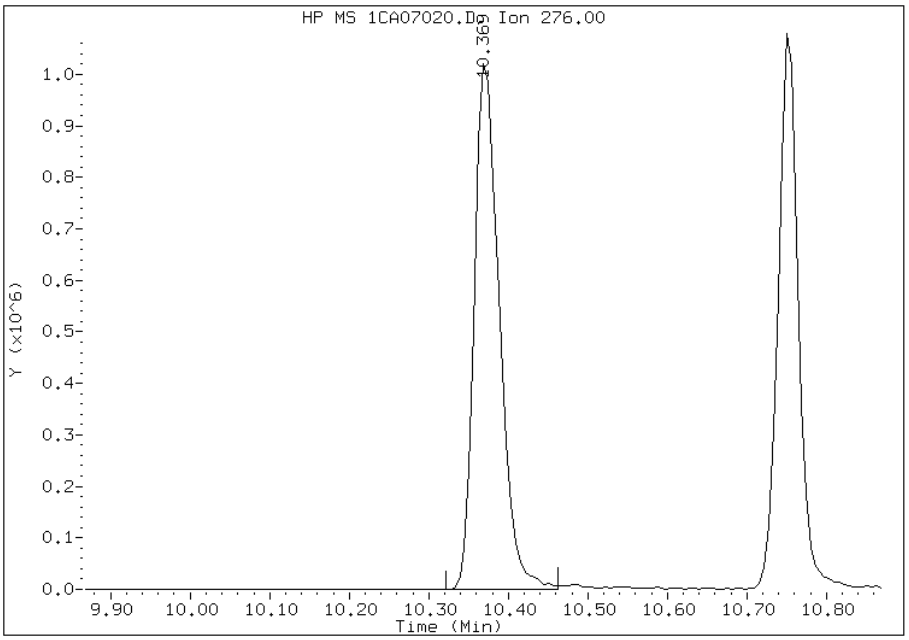
Processing Integration Results

RT: 10.37

Response: 2215563

Amount: 23

Conc: 23



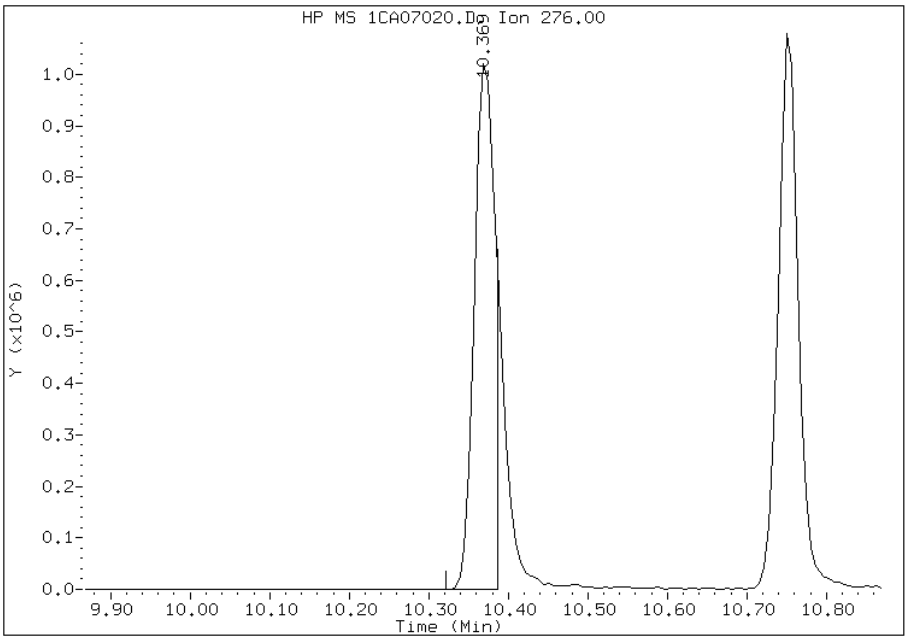
Manual Integration Results

RT: 10.37

Response: 1812061

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:44
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab Sample ID: CCVIS 660-134493/3 Calibration Date: 02/14/2013 14:56

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CB14003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.044	0.0000	19700	20000	-1.5	20.0
2-Methylnaphthalene	Ave	0.6892	0.6588	0.0000	19100	20000	-4.4	20.0
1-Methylnaphthalene	Ave	0.6268	0.6348	0.0000	20300	20000	1.3	20.0
Acenaphthylene	Ave	1.591	1.622	0.0000	20400	20000	1.9	20.0
Acenaphthene	Ave	0.998	0.9484	0.0000	19000	20000	-5.0	20.0
Fluorene	Ave	1.281	1.237	0.0000	19300	20000	-3.5	20.0
Phenanthrene	Ave	1.194	1.063	0.0000	17800	20000	-10.9	20.0
Anthracene	Ave	1.076	1.071	0.0000	19900	20000	-0.4	20.0
Carbazole	Ave	0.9344	0.9557	0.0000	20500	20000	2.3	20.0
Fluoranthene	Ave	1.167	1.244	0.0000	21300	20000	6.6	20.0
Pyrene	Ave	1.065	1.057	0.0000	19900	20000	-0.7	20.0
Benzo[a]anthracene	Ave	1.103	1.060	0.0000	19200	20000	-3.9	20.0
Chrysene	Ave	1.139	1.048	0.0000	18400	20000	-8.1	20.0
Benzo[b]fluoranthene	Ave	0.9807	1.002	0.0000	20400	20000	2.2	20.0
Benzo[k]fluoranthene	Ave	1.080	1.049	0.0000	19400	20000	-2.9	20.0
Benzo[a]pyrene	Ave	0.9332	0.9945	0.0000	21300	20000	6.6	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.9713	0.0000	21700	20000	8.4	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8847	0.0000	20900	20000	4.7	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.9548	0.0000	21000	20000	4.9	20.0
o-Terphenyl	Ave	0.5861	0.5917	0.0000	20200	20000	1.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 14-FEB-2013 14:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2053022	40.0000	(H)
* 6 Acenaphthene-d10	164	4.909	4.909	(1.000)	1531446	40.0000	(H)
* 10 Phenanthrene-d10	188	5.862	5.862	(1.000)	2933515	40.0000	(H)
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	867880	20.0000	20.1913(H)
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3745630	40.0000	(H)
* 23 Perylene-d12	264	9.039	9.039	(1.000)	4029021	40.0000	(H)
2 Naphthalene	128	3.833	3.833	(1.003)	1071876	20.0000	19.7027(H)
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	676262	20.0000	19.1176(H)
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	651642	20.0000	20.2549(H)
5 Acenaphthylene	152	4.821	4.821	(0.982)	1242137	20.0000	20.3871(H)
7 Acenaphthene	154	4.927	4.927	(1.004)	726193	20.0000	19.0039(H)
9 Fluorene	166	5.251	5.251	(1.069)	947183	20.0000	19.3097(H)
11 Phenanthrene	178	5.880	5.880	(1.003)	1559815	20.0000	17.8135(H)
12 Anthracene	178	5.909	5.909	(1.008)	1571537	20.0000	19.9201(H)
13 Carbazole	167	6.015	6.015	(1.026)	1401844	20.0000	20.4567(H)
15 Fluoranthene	202	6.721	6.721	(1.146)	1823927	20.0000	21.3171(H)
16 Pyrene	202	6.886	6.886	(0.881)	1979931	20.0000	19.8553(H)
17 Benzo(a)anthracene	228	7.803	7.803	(0.998)	1984578	20.0000	19.2134(H)
19 Chrysene	228	7.833	7.833	(1.002)	1961932	20.0000	18.3883(H)
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	2018946	20.0000	20.4391(H)
21 Benzo(k)fluoranthene	252	8.697	8.697	(0.962)	2113355	20.0000	19.4204(H)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	2003418	20.0000	21.3144(H)
24 Indeno(1,2,3-cd)pyrene	276	10.268	10.268	(1.136)	1956614	20.0000	21.6730(MH)
25 Dibenzo(a,h)anthracene	278	10.286	10.286	(1.138)	1782225	20.0000	20.9342(H)
26 Benzo(g,h,i)perylene	276	10.639	10.639	(1.177)	1923505	20.0000	20.9749(H)

QC Flag Legend

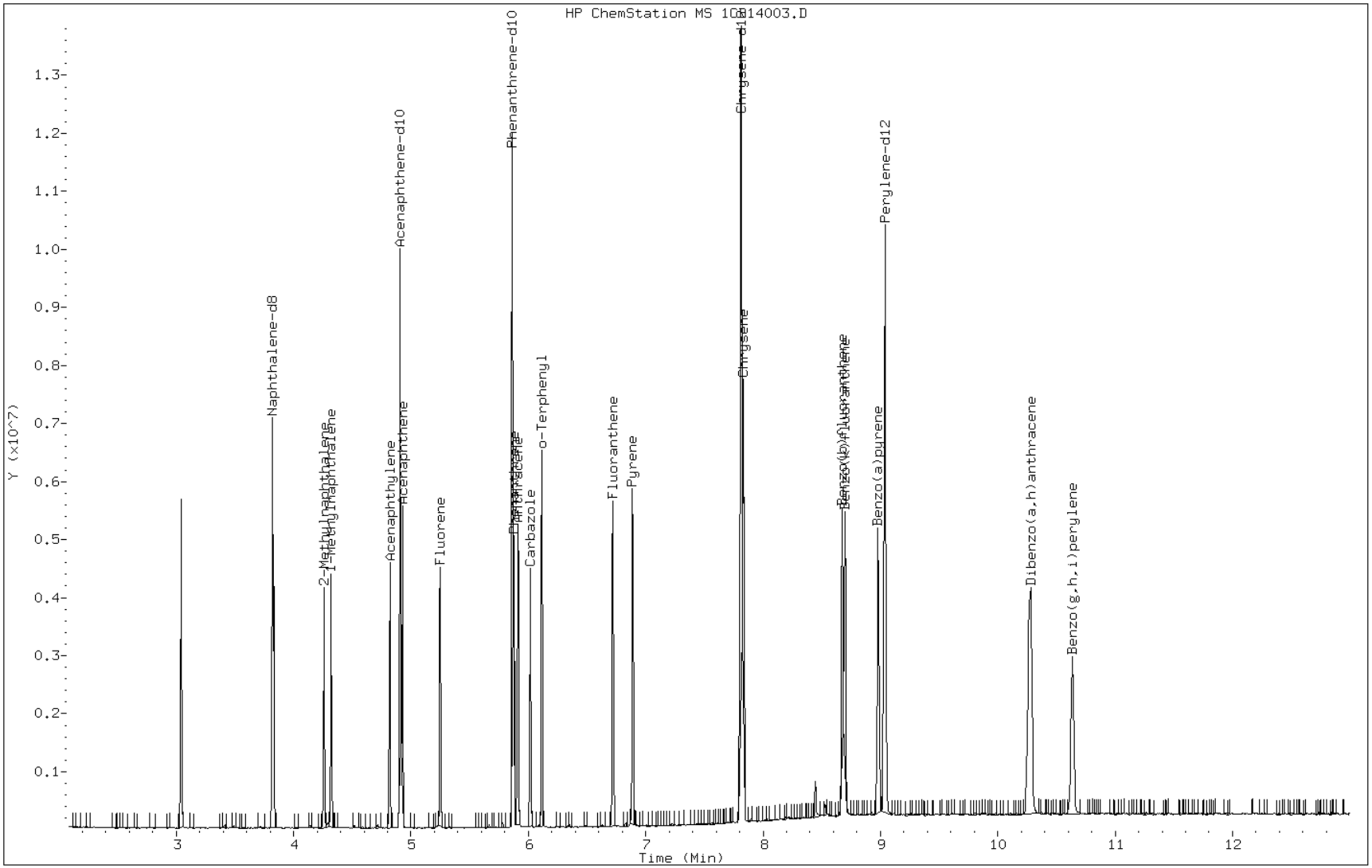
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB14003.D

Date: 14-FEB-2013 14:56

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB14003.D
Inj. Date and Time: 14-FEB-2013 14:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

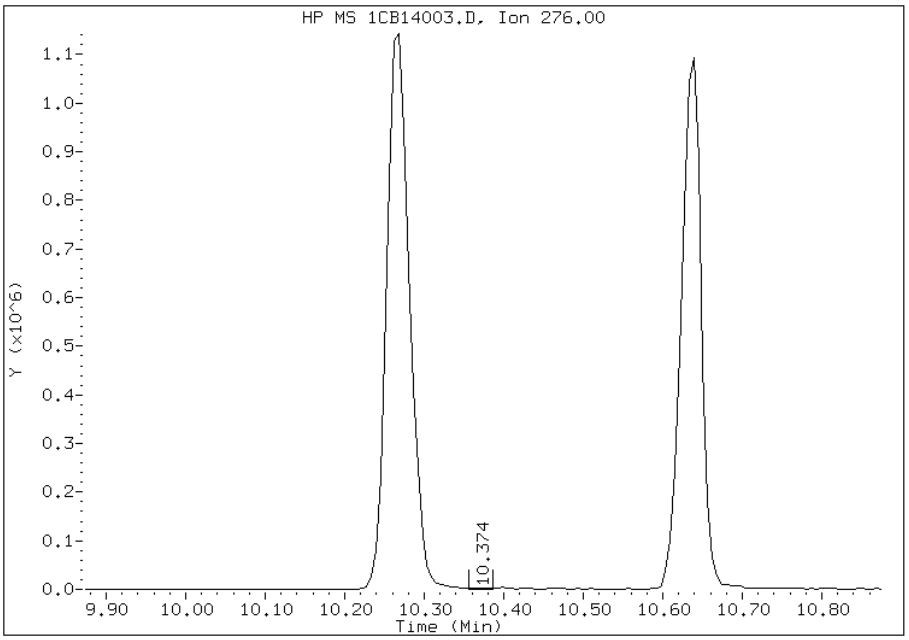
Processing Integration Results

RT: 10.37

Response: 4460

Amount: 0

Conc: 0



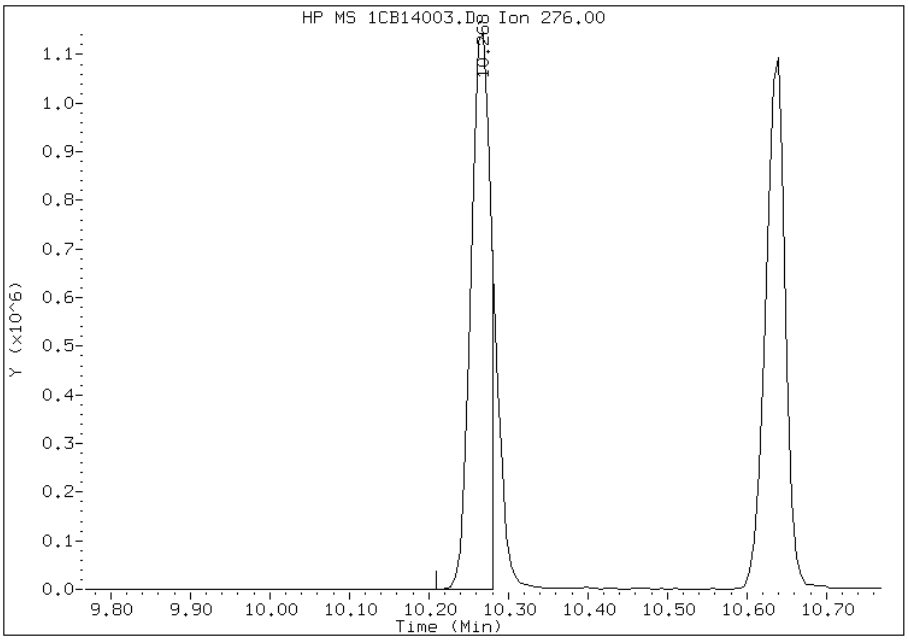
Manual Integration Results

RT: 10.27

Response: 1956614

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 15:13
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab Sample ID: CCVIS 660-134530/4 Calibration Date: 02/15/2013 11:56

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CB15004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.060	0.0000	20000	20000	0.0	20.0
2-Methylnaphthalene	Ave	0.6892	0.6809	0.0000	19800	20000	-1.2	20.0
1-Methylnaphthalene	Ave	0.6268	0.6407	0.0000	20400	20000	2.2	20.0
Acenaphthylene	Ave	1.591	1.582	0.0000	19900	20000	-0.6	20.0
Acenaphthene	Ave	0.998	0.9393	0.0000	18800	20000	-5.9	20.0
Fluorene	Ave	1.281	1.238	0.0000	19300	20000	-3.4	20.0
Phenanthrene	Ave	1.194	1.089	0.0000	18200	20000	-8.8	20.0
Anthracene	Ave	1.076	1.108	0.0000	20600	20000	3.0	20.0
Carbazole	Ave	0.9344	0.9721	0.0000	20800	20000	4.0	20.0
Fluoranthene	Ave	1.167	1.234	0.0000	21200	20000	5.8	20.0
Pyrene	Ave	1.065	1.167	0.0000	21900	20000	9.6	20.0
Benzo[a]anthracene	Ave	1.103	1.079	0.0000	19600	20000	-2.2	20.0
Chrysene	Ave	1.139	1.065	0.0000	18700	20000	-6.5	20.0
Benzo[b]fluoranthene	Ave	0.9807	1.095	0.0000	22300	20000	11.6	20.0
Benzo[k]fluoranthene	Ave	1.080	1.070	0.0000	19800	20000	-0.9	20.0
Benzo[a]pyrene	Ave	0.9332	0.997	0.0000	21400	20000	6.8	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8864	0.0000	19800	20000	-1.1	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8200	0.0000	19400	20000	-3.0	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8634	0.0000	19000	20000	-5.2	20.0
o-Terphenyl	Ave	0.5861	0.5769	0.0000	19700	20000	-1.6	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15004.D
Lab Smp Id: CCVIS-1489898
Inj Date : 15-FEB-2013 11:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2569302	40.0000	(H)
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1996632	40.0000	(H)
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3819499	40.0000	(H)
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	1101673	20.0000	19.6852(H)
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	4339487	40.0000	(H)
* 23 Perylene-d12	264	9.039	9.039	(1.000)	4016358	40.0000	(H)
2 Naphthalene	128	3.833	3.833	(1.003)	1362273	20.0000	20.0089(H)
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	874660	20.0000	19.7577(H)
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	823032	20.0000	20.4417(H)
5 Acenaphthylene	152	4.821	4.821	(0.982)	1579018	20.0000	19.8782(H)
7 Acenaphthene	154	4.927	4.927	(1.004)	937736	20.0000	18.8224(H)
9 Fluorene	166	5.245	5.245	(1.068)	1235679	20.0000	19.3220(H)
11 Phenanthrene	178	5.880	5.880	(1.003)	2079382	20.0000	18.2386(H)
12 Anthracene	178	5.910	5.910	(1.008)	2116673	20.0000	20.6064(H)
13 Carbazole	167	6.015	6.015	(1.026)	1856475	20.0000	20.8069(H)
15 Fluoranthene	202	6.721	6.721	(1.146)	2356572	20.0000	21.1535(H)
16 Pyrene	202	6.886	6.886	(0.881)	2531402	20.0000	21.9116(H)
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	2341337	20.0000	19.5653(H)
19 Chrysene	228	7.833	7.833	(1.002)	2311739	20.0000	18.7018(H)
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	2198183	20.0000	22.3238(H)
21 Benzo(k)fluoranthene	252	8.698	8.698	(0.962)	2149559	20.0000	19.8154(H)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	2002073	20.0000	21.3673(H)
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	1780040	20.0000	19.7793(MH)
25 Dibenzo(a,h)anthracene	278	10.280	10.280	(1.137)	1646677	20.0000	19.4031(H)
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	1733826	20.0000	18.9661(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB15004.D

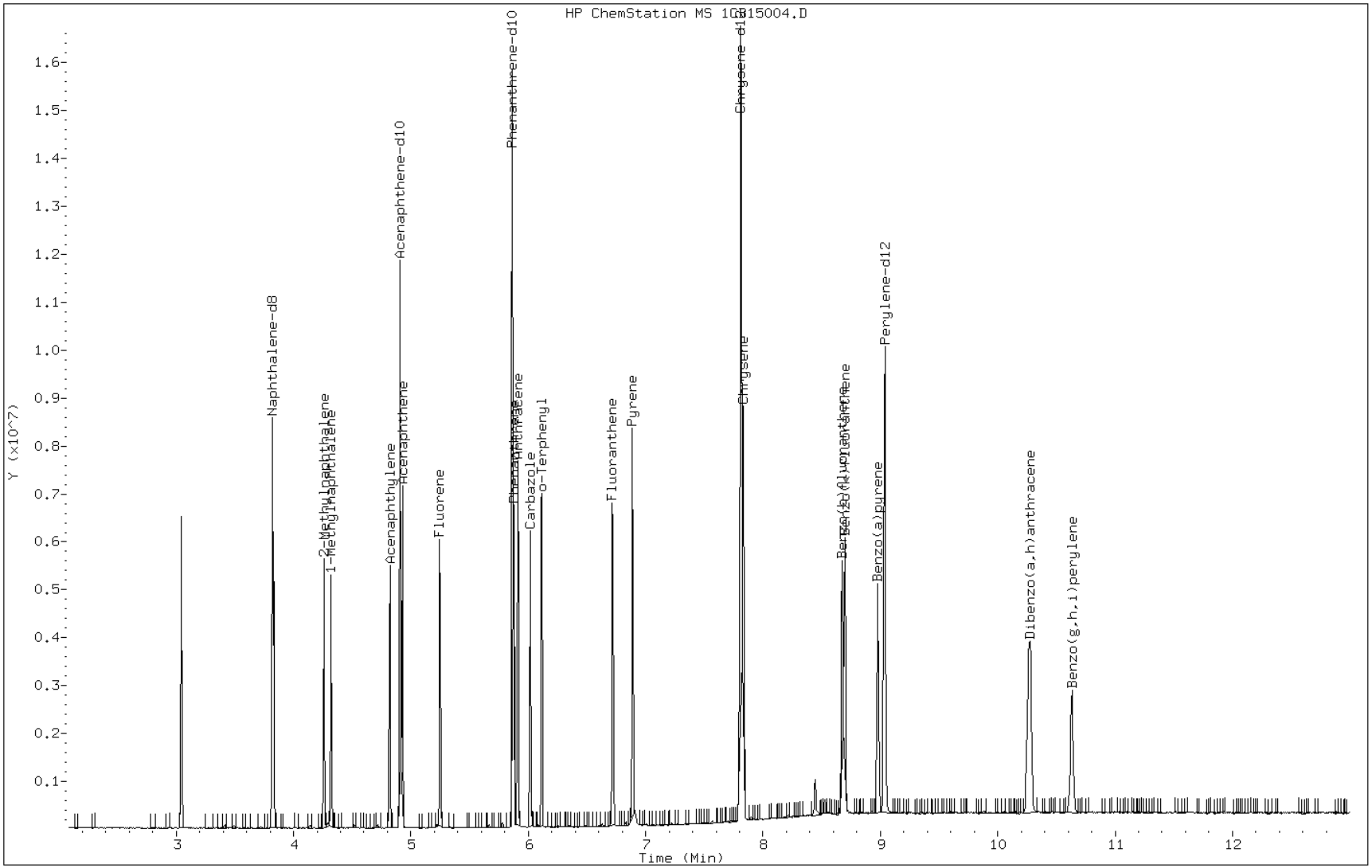
Date: 15-FEB-2013 11:56

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1489898

Operator: SCC



Manual Integration Report

Data File: 1CB15004.D
Inj. Date and Time: 15-FEB-2013 11:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

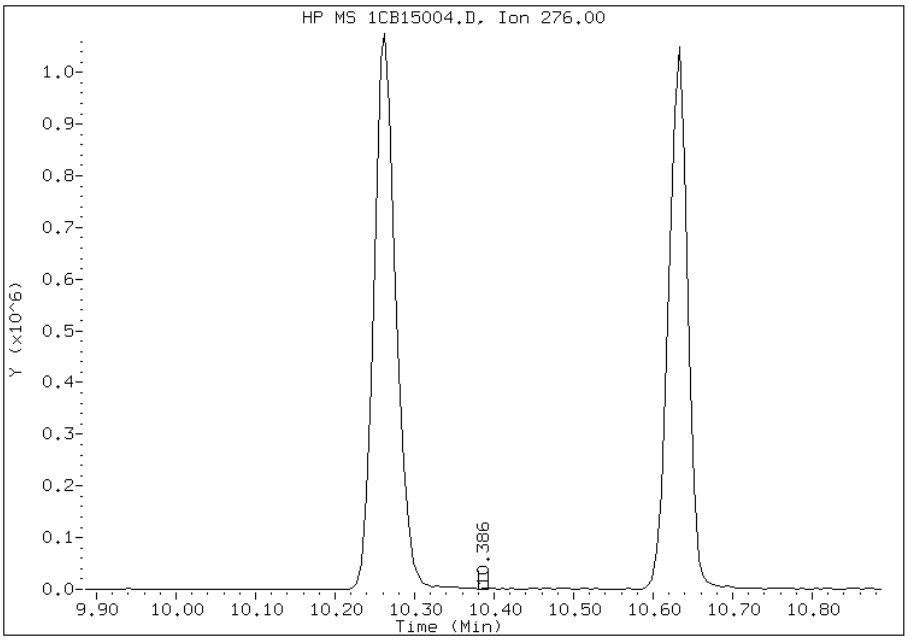
Processing Integration Results

RT: 10.39

Response: 862

Amount: 0

Conc: 0



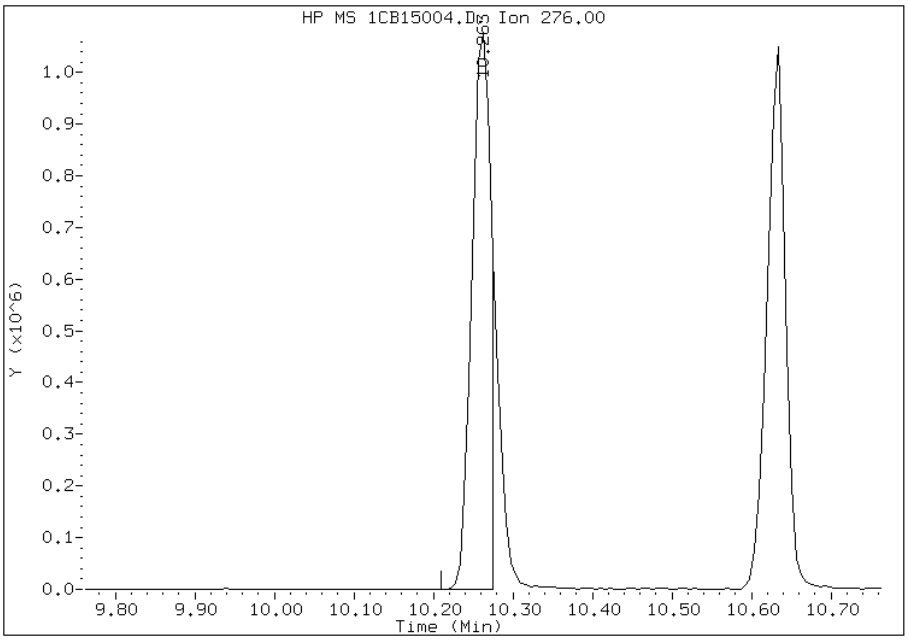
Manual Integration Results

RT: 10.26

Response: 1780040

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 12:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Lab Sample ID: CCVIS 660-134598/3 Calibration Date: 02/18/2013 14:07

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CB18003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.047	0.0000	19800	20000	-1.2	20.0
2-Methylnaphthalene	Ave	0.6892	0.6840	0.0000	19800	20000	-0.8	20.0
1-Methylnaphthalene	Ave	0.6268	0.6317	0.0000	20200	20000	0.8	20.0
Acenaphthylene	Ave	1.591	1.617	0.0000	20300	20000	1.6	20.0
Acenaphthene	Ave	0.998	0.9461	0.0000	19000	20000	-5.2	20.0
Fluorene	Ave	1.281	1.231	0.0000	19200	20000	-3.9	20.0
Phenanthrene	Ave	1.194	1.068	0.0000	17900	20000	-10.5	20.0
Anthracene	Ave	1.076	1.102	0.0000	20500	20000	2.5	20.0
Carbazole	Ave	0.9344	0.9797	0.0000	21000	20000	4.8	20.0
Fluoranthene	Ave	1.167	1.238	0.0000	21200	20000	6.1	20.0
Pyrene	Ave	1.065	1.090	0.0000	20500	20000	2.4	20.0
Benzo[a]anthracene	Ave	1.103	1.075	0.0000	19500	20000	-2.6	20.0
Chrysene	Ave	1.139	1.048	0.0000	18400	20000	-8.0	20.0
Benzo[b]fluoranthene	Ave	0.9807	0.9698	0.0000	19800	20000	-1.1	20.0
Benzo[k]fluoranthene	Ave	1.080	1.149	0.0000	21300	20000	6.3	20.0
Benzo[a]pyrene	Ave	0.9332	0.9930	0.0000	21300	20000	6.4	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.9147	0.0000	20400	20000	2.1	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8470	0.0000	20000	20000	0.2	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.9078	0.0000	19900	20000	-0.3	20.0
o-Terphenyl	Ave	0.5861	0.5956	0.0000	20300	20000	1.6	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 18-FEB-2013 14:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\a-bFASTPAHi-m.m
Meth Date : 18-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	2084677	40.0000	(H)
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1616631	40.0000	(H)
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3184282	40.0000	(H)
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	948249	20.0000	20.3238(H)
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	3977138	40.0000	(H)
* 23 Perylene-d12	264	9.027	9.027	(1.000)	3965161	40.0000	(H)
2 Naphthalene	128	3.827	3.827	(1.003)	1091737	20.0000	19.7630(H)
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	712948	20.0000	19.8486(H)
4 1-Methylnaphthalene	142	4.315	4.315	(1.131)	658440	20.0000	20.1555(H)
5 Acenaphthylene	152	4.815	4.815	(0.982)	1306819	20.0000	20.3186(H)
7 Acenaphthene	154	4.921	4.921	(1.004)	764707	20.0000	18.9573(H)
9 Fluorene	166	5.245	5.245	(1.070)	995062	20.0000	19.2169(H)
11 Phenanthrene	178	5.874	5.874	(1.003)	1700762	20.0000	17.8935(H)
12 Anthracene	178	5.909	5.909	(1.009)	1755251	20.0000	20.4966(H)
13 Carbazole	167	6.015	6.015	(1.027)	1559767	20.0000	20.9688(H)
15 Fluoranthene	202	6.715	6.715	(1.147)	1971005	20.0000	21.2219(H)
16 Pyrene	202	6.880	6.880	(0.881)	2167387	20.0000	20.4700(H)
17 Benzo(a)anthracene	228	7.798	7.798	(0.998)	2136848	20.0000	19.4834(H)
19 Chrysene	228	7.827	7.827	(1.002)	2084531	20.0000	18.4001(H)
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	1922756	20.0000	19.7788(H)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	2277315	20.0000	21.2641(H)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	1968703	20.0000	21.2824(H)
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.250	(1.136)	1813487	20.0000	20.4112(MH)
25 Dibenzo(a,h)anthracene	278	10.268	10.268	(1.137)	1679195	20.0000	20.0417(H)
26 Benzo(g,h,i)perylene	276	10.621	10.621	(1.177)	1799796	20.0000	19.9420(H)

QC Flag Legend

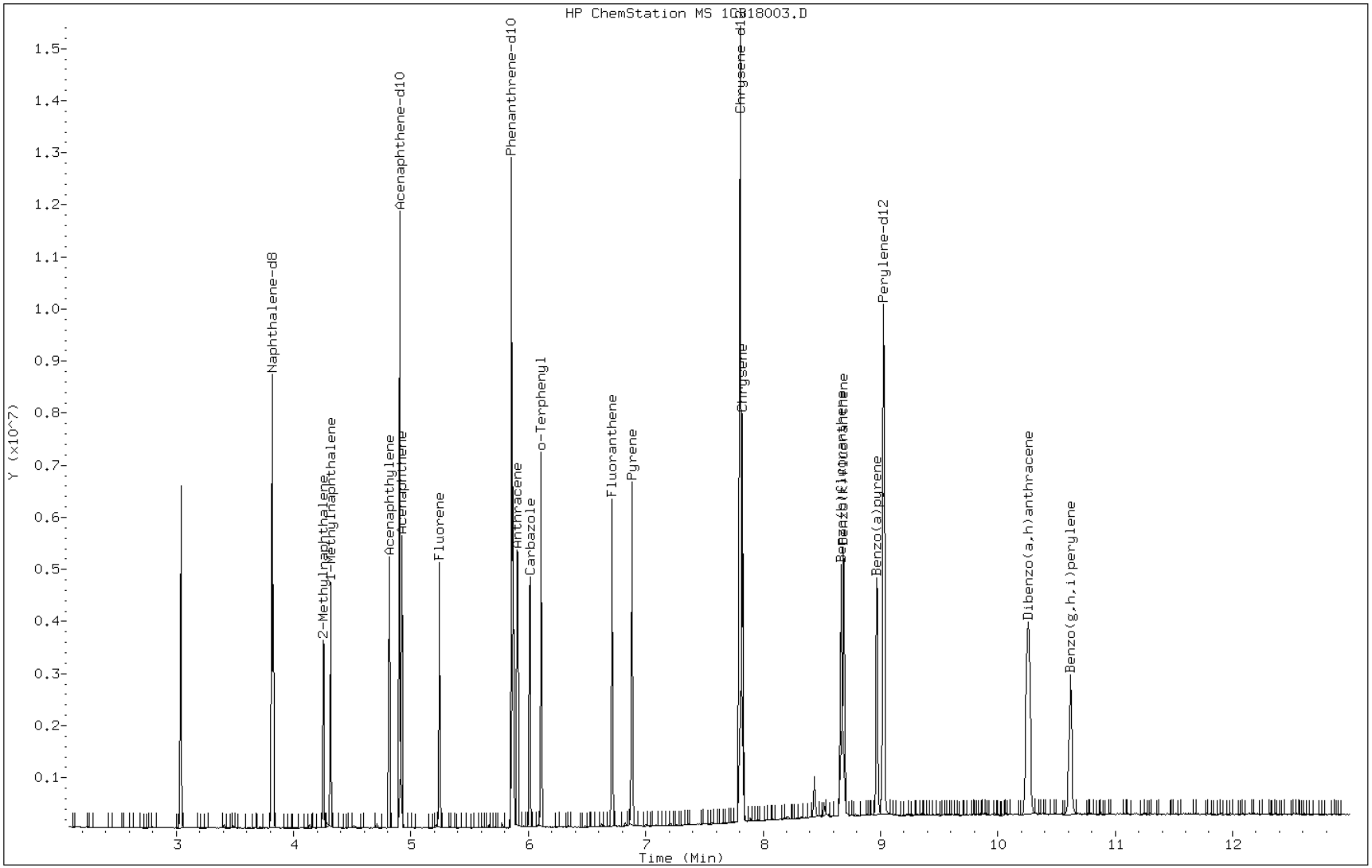
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB18003.D

Date: 18-FEB-2013 14:07

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB18003.D
Inj. Date and Time: 18-FEB-2013 14:07
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

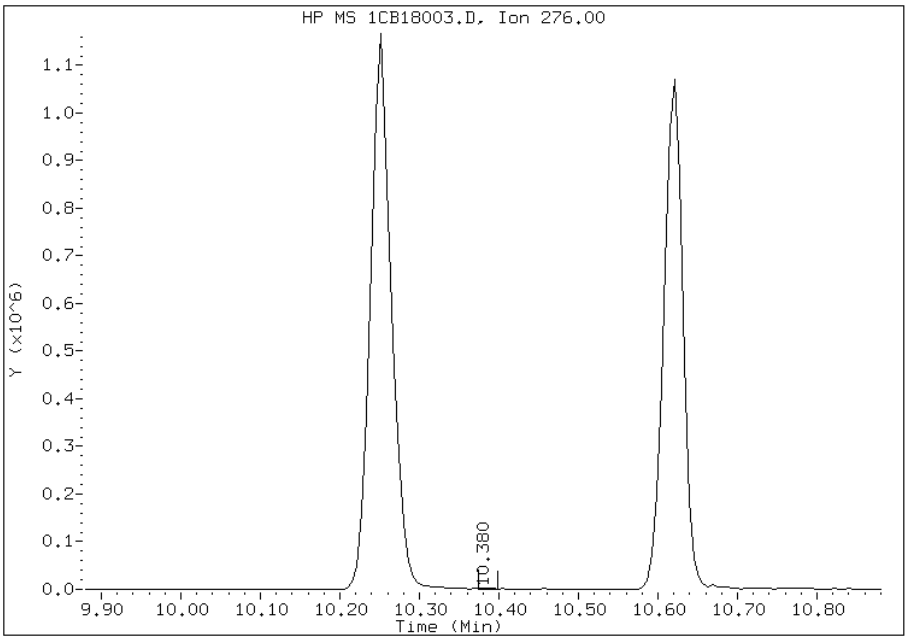
Processing Integration Results

RT: 10.38

Response: 1978

Amount: 0

Conc: 0



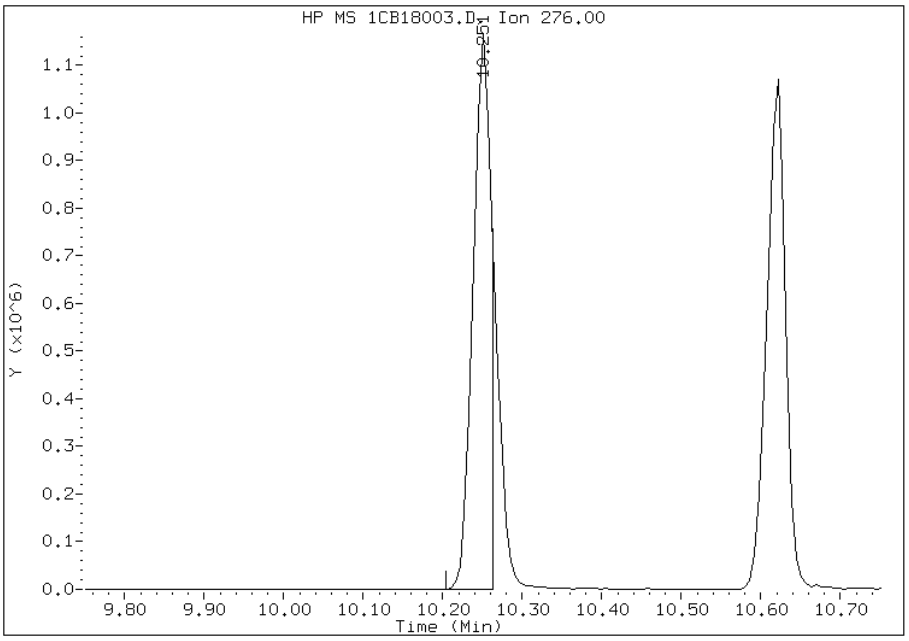
Manual Integration Results

RT: 10.25

Response: 1813487

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 14:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 30-JAN-2013 11:20
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

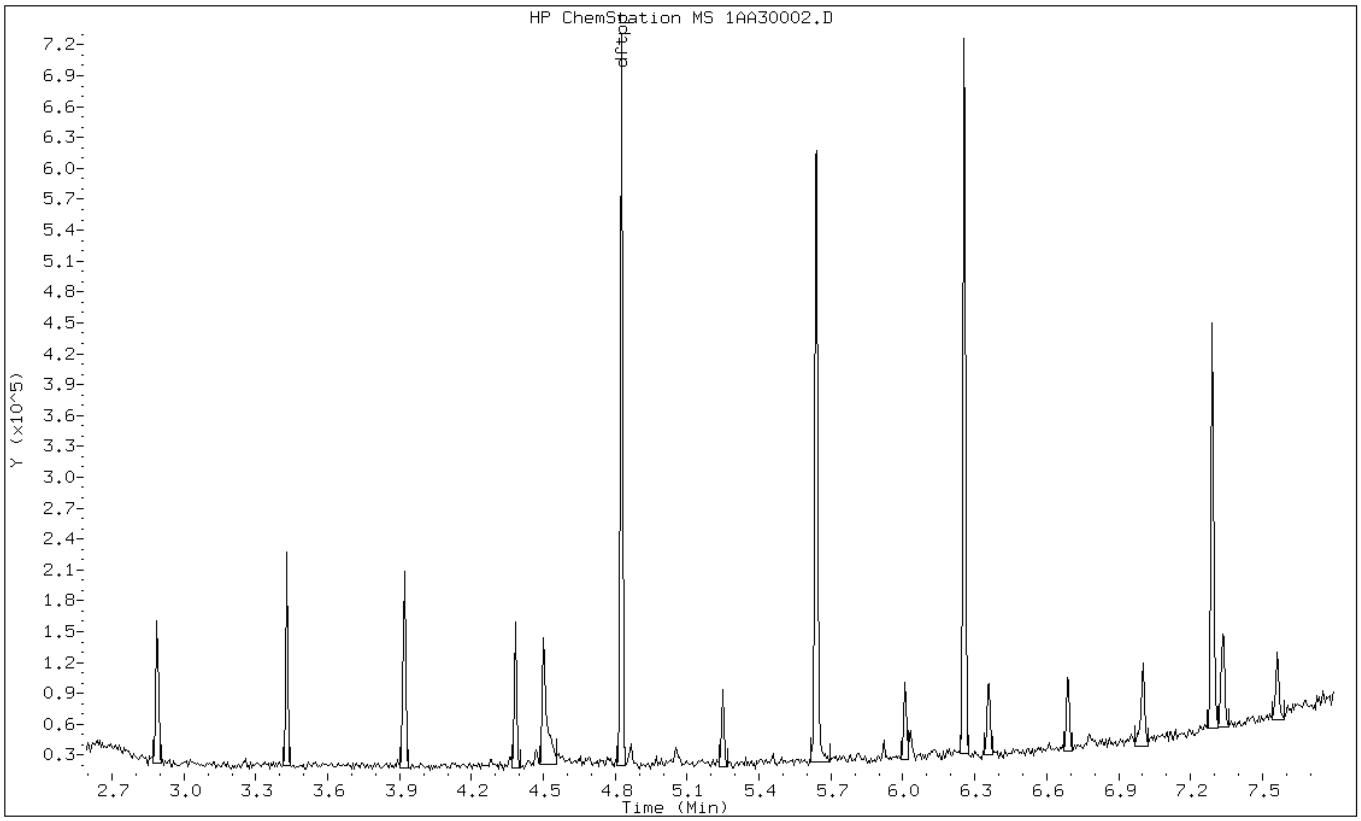
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.827	4.928	-0.101	198	74336			50.00- 0.00	100.00
4.827	4.928	-0.101	51	30248			10.00- 80.00	40.69
4.827	4.928	-0.101	68	0	0.0	0.0	0.00- 2.00	0.00
4.827	4.928	-0.101	69	32488			0.00- 0.00	43.70
4.827	4.928	-0.101	70	551			0.00- 2.00	1.70
4.827	4.928	-0.101	127	32864			10.00- 80.00	44.21
4.827	4.928	-0.101	197	1231			0.00- 2.00	1.66
4.827	4.928	-0.101	442	47368			50.00- 0.00	63.72
4.827	4.928	-0.101	199	4419			5.00- 9.00	5.94
4.827	4.928	-0.101	275	17432			10.00- 60.00	23.45
4.827	4.928	-0.101	365	1423			1.00- 0.00	1.91
4.827	4.928	-0.101	441	6409			0.01- 99.99	63.49
4.827	4.928	-0.101	443	10094			15.00- 24.00	21.31

Data File: 1AA30002.D

Date: 30-JAN-2013 11:20

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



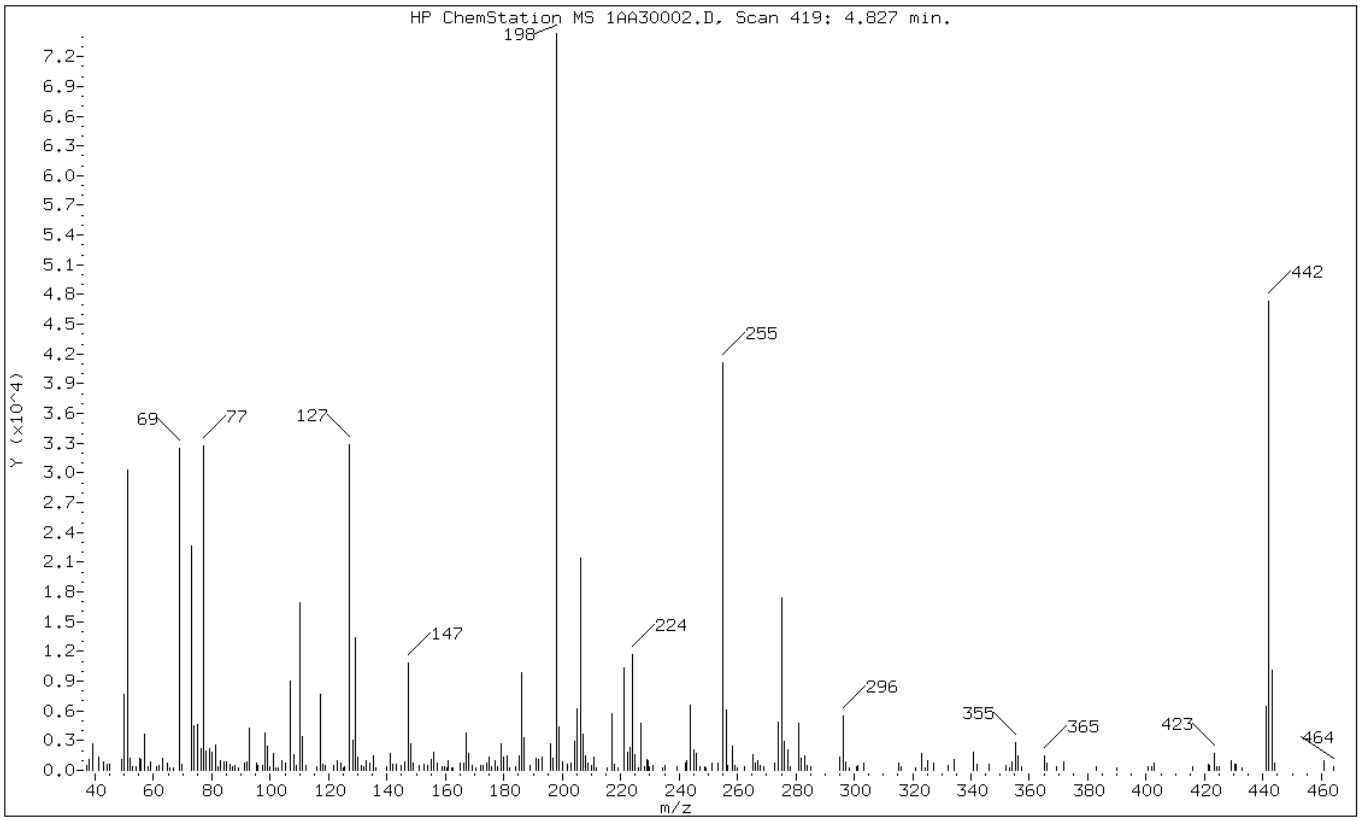
Data File: 1AA30002.D

Date: 30-JAN-2013 11:20

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	40.69
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.70
70	Less than 2.00% of mass 69	0.74 (1.70)
127	10.00 - 80.00% of mass 198	44.21
197	Less than 2.00% of mass 198	1.66
442	Greater than 50.00% of mass 198	63.72
199	5.00 - 9.00% of mass 198	5.94
275	10.00 - 60.00% of mass 198	23.45
365	Greater than 1.00% of mass 198	1.91
441	Present, but less than mass 443	8.62
443	15.00 - 24.00% of mass 442	13.58 (21.31)

Data File: 1AA30002.D

Date: 30-JAN-2013 11:20

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30002.D
Spectrum: HP ChemStation MS 1AA30002.D, Scan 419: 4.827 min.
Location of Maximum: 198.00
Number of points: 248

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	463	115.80	356	192.00	1084	276.10	2879
38.10	1056	117.10	7698	193.10	1299	277.10	2022
39.10	2640	118.00	636	196.00	2623	278.10	421
41.10	1394	119.00	501	196.80	1231	281.10	4793
43.00	902	121.90	513	198.00	74336	281.90	1263
44.00	620	123.00	937	198.90	4419	283.10	1463
45.00	642	124.00	788	200.10	855	284.00	447
48.90	1064	125.10	290	201.60	588	285.20	378
50.00	7633	125.50	311	203.00	744	295.20	1388
51.00	30248	127.00	32864	204.10	2969	296.10	5460
52.00	1249	128.10	3077	205.10	6251	296.90	760
52.90	352	129.00	13426	206.10	21376	297.20	902
53.90	364	130.00	1385	207.10	3697	298.30	304
55.10	1245	131.10	517	208.10	1470	300.90	404
55.80	1133	131.90	345	208.90	742	301.20	468
57.00	3594	133.00	994	209.90	487	303.10	772
58.00	309	134.00	730	211.00	1283	315.20	713
59.10	792	135.20	1418	211.70	255	316.10	325
60.90	420	136.00	288	215.30	270	321.20	282
62.00	469	139.90	376	217.00	5695	323.10	1758
63.00	1184	141.00	1743	217.80	552	324.20	260
64.90	784	142.10	566	218.90	263	325.10	1029
65.70	296	143.10	565	221.10	10393	327.10	752
67.00	252	144.90	525	222.20	1774	332.10	466
69.00	32488	146.20	827	223.20	2301	334.10	1128
69.70	551	147.10	10784	224.10	11718	341.00	1772
73.10	22664	148.00	2728	225.00	1594	342.10	567
74.00	4472	148.90	784	226.10	256	346.20	603
75.00	4596	151.10	492	227.00	4790	351.90	469
76.10	2241	152.80	652	228.30	359	353.00	252
77.10	32760	153.80	496	228.90	1100	354.10	793
78.00	1915	155.00	1059	229.20	1033	355.10	2767
79.00	2162	156.10	1885	230.00	399	355.90	1469
80.00	1874	157.30	786	231.10	431	357.20	404
81.10	2537	158.70	305	234.20	272	365.20	1423
82.00	421	159.80	318	235.00	441	366.00	738
83.10	924	160.30	264	239.10	349	369.10	312
84.00	848	160.90	988	242.20	734	371.90	897
85.00	866	162.10	270	242.80	993	383.00	420
86.00	559	162.40	286	244.00	6598	390.00	264

87.10	384	165.10	785
88.00	530	166.10	783
89.00	250	167.00	3795
91.10	782	168.10	1669
92.10	880	169.00	452
93.00	4215	170.30	274
95.20	724	172.00	496
95.80	434	172.90	511
97.20	475	174.10	708
98.00	3751	175.00	1328
99.00	2422	175.90	361
99.90	308	177.10	917
101.00	1674	178.00	419
101.90	279	179.00	2653
102.80	255	179.90	1296
104.00	952	181.00	1468
105.00	681	182.10	271
107.00	9036	184.00	349
108.10	1631	185.10	1466
109.00	458	186.10	9887
110.00	16928	187.00	3312
111.00	3457	189.10	506
112.10	507	191.10	1269

245.00	2014	400.80	379
246.10	1712	402.00	325
247.10	374	402.80	702
248.90	360	416.00	308
249.20	288	421.10	557
251.10	700	421.90	480
253.20	782	423.20	1724
255.10	41128	424.20	319
256.10	6049	424.90	324
256.80	482	429.10	971
258.10	2470	430.20	549
259.10	440	430.90	557
260.10	293	433.00	281
262.30	318	441.00	6409
265.20	1624	442.00	47368
266.10	737	443.00	10094
267.00	947	444.00	751
267.80	439	461.10	933
268.90	299	464.20	357
269.20	385		
272.80	771		
274.10	4829		
275.10	17432		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 14-FEB-2013 09:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

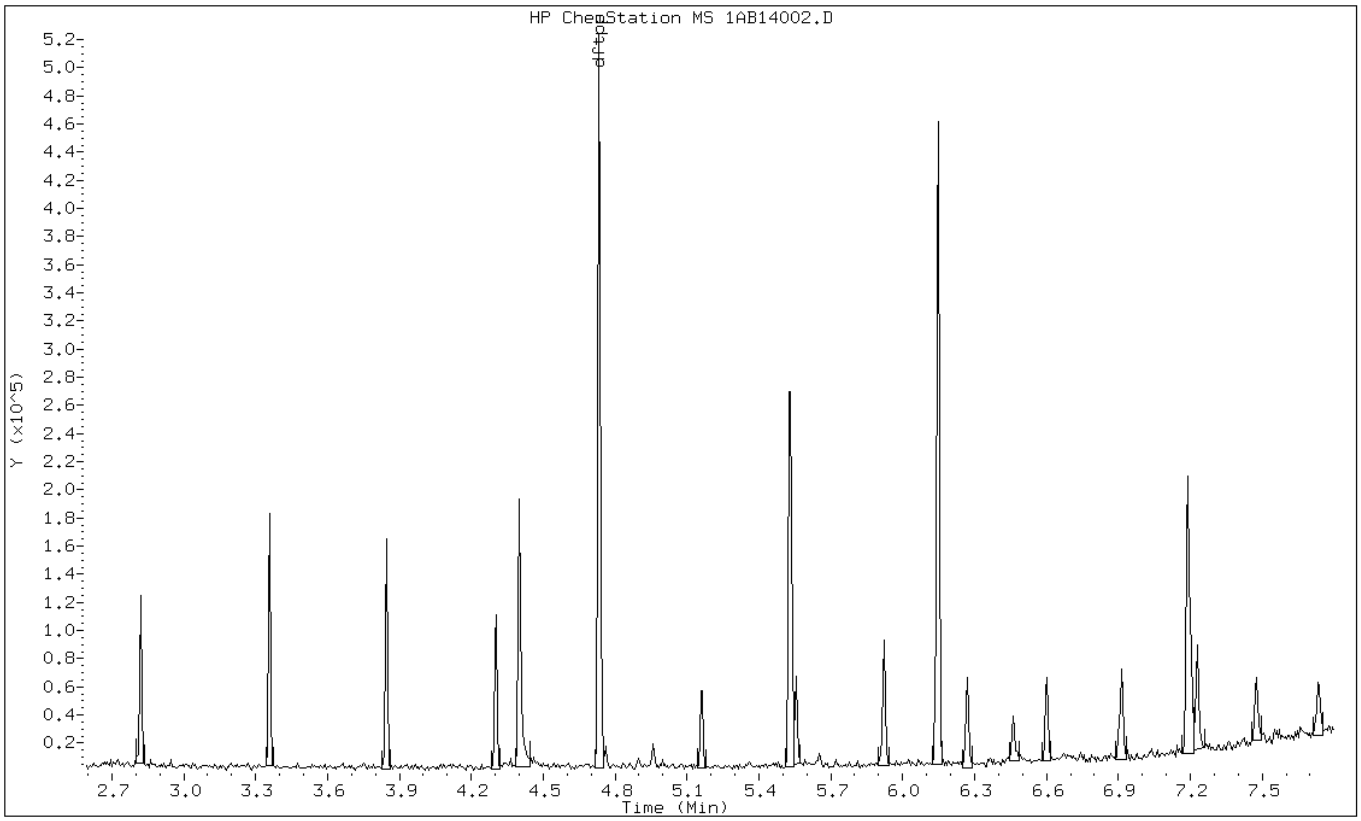
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.732	4.928	-0.196	198	43820			50.00- 0.00	100.00
4.732	4.928	-0.196	51	19243			10.00- 80.00	43.91
4.732	4.928	-0.196	68	0	0.0	0.0	0.00- 2.00	0.00
4.732	4.928	-0.196	69	20302			0.00- 0.00	46.33
4.732	4.928	-0.196	70	0	0.0	0.0	0.00- 2.00	0.00
4.732	4.928	-0.196	127	18860			10.00- 80.00	43.04
4.732	4.928	-0.196	197	0	0.0	0.0	0.00- 2.00	0.00
4.732	4.928	-0.196	442	33872			50.00- 0.00	77.30
4.732	4.928	-0.196	199	3348			5.00- 9.00	7.64
4.732	4.928	-0.196	275	11705			10.00- 60.00	26.71
4.732	4.928	-0.196	365	1521			1.00- 0.00	3.47
4.732	4.928	-0.196	441	5015			0.01- 99.99	78.88
4.732	4.928	-0.196	443	6358			15.00- 24.00	18.77

Data File: 1AB14002.D

Date: 14-FEB-2013 09:58

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



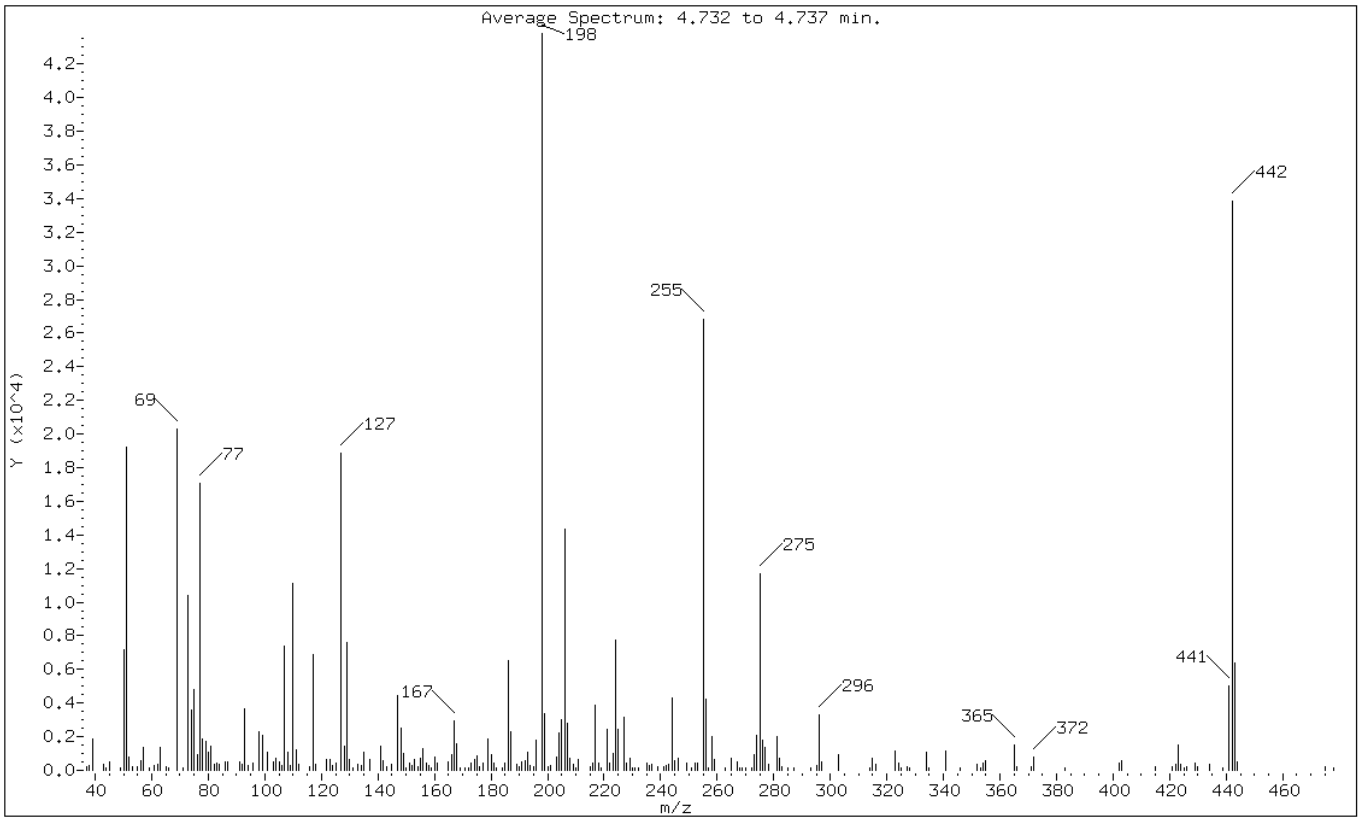
Data File: 1AB14002.D

Date: 14-FEB-2013 09:58

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	43.91
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.33
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	43.04
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	77.30
199	5.00 - 9.00% of mass 198	7.64
275	10.00 - 60.00% of mass 198	26.71
365	Greater than 1.00% of mass 198	3.47
441	Present, but less than mass 443	11.44
443	15.00 - 24.00% of mass 442	14.51 (18.77)

Data File: 1AB14002.D

Date: 14-FEB-2013 09:58

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14002.D
Spectrum: Average Spectrum: 4.732 to 4.737 min.
Location of Maximum: 198.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	211	123.00	637	196.00	1786	275.00	11705
38.00	302	124.00	316	198.00	43816	276.00	1784
39.00	1870	125.00	398	199.00	3348	277.00	1371
43.00	323	127.00	18856	200.00	221	278.00	355
44.00	173	128.00	1454	201.00	257	281.00	1986
45.00	500	129.00	7571	203.00	767	282.00	716
49.00	179	130.00	659	204.00	2249	283.00	183
50.00	7172	131.00	171	205.00	3038	285.00	175
51.00	19240	133.00	368	206.00	14321	287.00	161
52.00	755	134.00	311	207.00	2781	293.00	125
53.00	233	135.00	1106	208.00	725	295.00	291
55.00	208	137.00	627	209.00	364	296.00	3294
56.00	577	141.00	1435	210.00	156	297.00	517
57.00	1328	142.00	538	211.00	648	303.00	910
59.00	162	143.00	193	215.00	183	314.00	165
61.00	274	145.00	377	216.00	434	315.00	699
62.00	381	147.00	4451	217.00	3841	316.00	342
63.00	1391	148.00	2507	218.00	417	323.00	1156
65.00	184	149.00	989	219.00	138	324.00	408
66.00	126	150.00	173	221.00	2423	325.00	154
69.00	20296	151.00	447	222.00	400	327.00	250
71.00	150	152.00	254	223.00	1034	328.00	127
73.00	10378	153.00	661	224.00	7740	334.00	1074
74.00	3620	154.00	184	225.00	2469	335.00	144
75.00	4781	155.00	719	227.00	3122	341.00	1120
76.00	931	156.00	1288	228.00	439	346.00	148
77.00	17072	157.00	464	229.00	734	352.00	325
78.00	1870	158.00	299	230.00	138	353.00	130
79.00	1707	159.00	145	231.00	141	354.00	431
80.00	1102	160.00	784	232.00	140	355.00	572
81.00	1432	161.00	403	235.00	423	365.00	1521
82.00	365	165.00	515	236.00	277	366.00	208
83.00	419	166.00	920	237.00	365	371.00	194
84.00	369	167.00	2933	239.00	200	372.00	758
86.00	483	168.00	1563	241.00	216	383.00	144
87.00	503	169.00	142	242.00	304	402.00	429
91.00	532	171.00	163	243.00	325	403.00	602
92.00	365	172.00	163	244.00	4316	415.00	199
93.00	3631	173.00	426	245.00	603	421.00	181
94.00	278	174.00	626	246.00	740	422.00	347

96.00	456	175.00	852	249.00	398	423.00	1486
98.00	2261	176.00	210	251.00	125	424.00	327
99.00	2072	177.00	428	252.00	410	425.00	130
101.00	1090	179.00	1848	253.00	434	426.00	181
103.00	491	180.00	930	255.00	26840	429.00	399
104.00	752	181.00	461	256.00	4253	430.00	228
105.00	479	182.00	155	257.00	131	434.00	330
106.00	285	184.00	175	258.00	2017	439.00	151
107.00	7359	185.00	428	259.00	659	441.00	5015
108.00	1051	186.00	6536	263.00	145	442.00	33872
109.00	257	187.00	2273	265.00	700	443.00	6358
110.00	11136	189.00	377	267.00	486	444.00	476
111.00	1242	190.00	180	268.00	160	475.00	198
112.00	334	191.00	474	269.00	155	478.00	144
116.00	220	192.00	570	270.00	128		
117.00	6853	193.00	1058	272.00	148		
118.00	394	194.00	301	273.00	940		
122.00	657	195.00	218	274.00	2103		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 15-FEB-2013 15:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

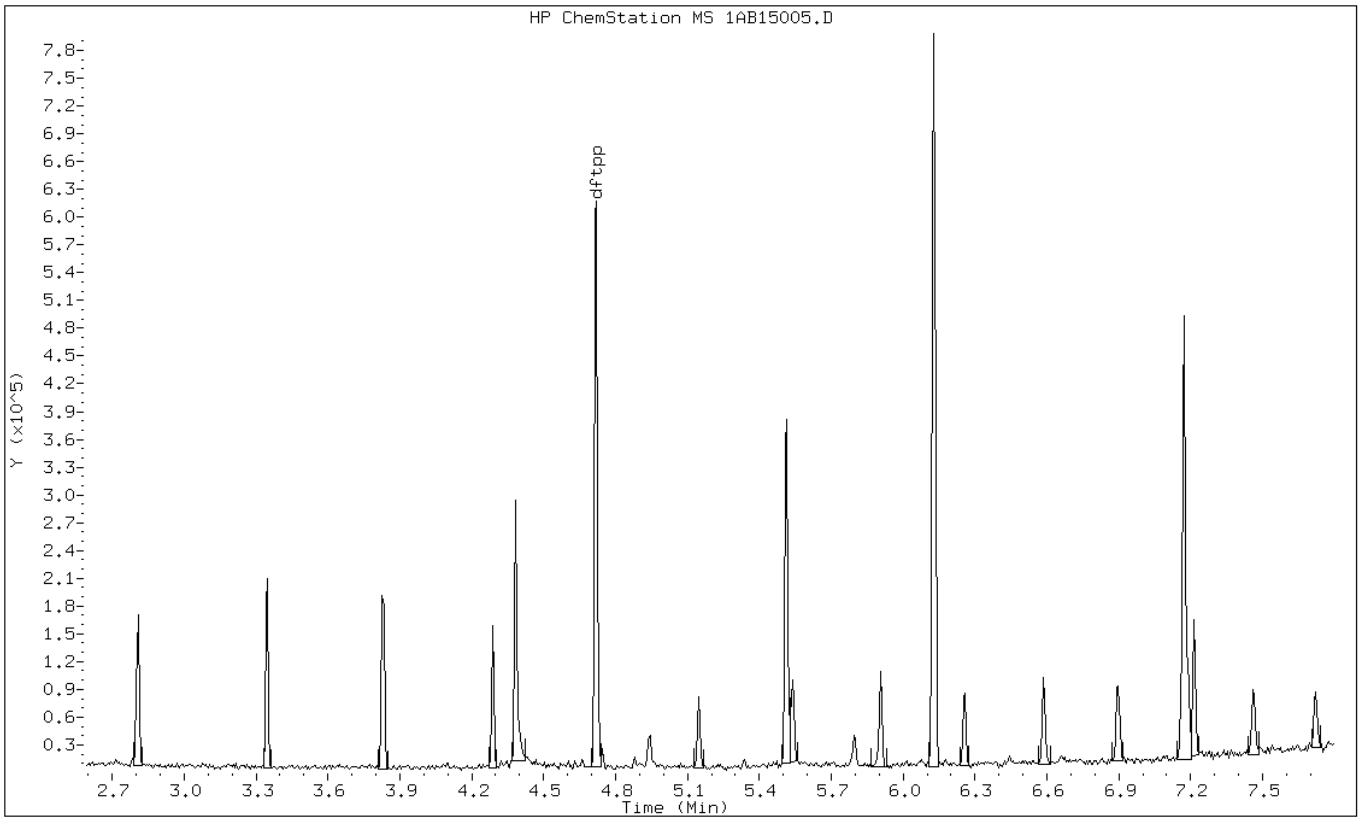
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.719	4.928	-0.209	198	64712			50.00- 0.00	100.00
4.719	4.928	-0.209	51	22008			10.00- 80.00	34.01
4.719	4.928	-0.209	68	0	0.0	0.0	0.00- 2.00	0.00
4.719	4.928	-0.209	69	26120			0.00- 0.00	40.36
4.719	4.928	-0.209	70	0	0.0	0.0	0.00- 2.00	0.00
4.719	4.928	-0.209	127	25096			10.00- 80.00	38.78
4.719	4.928	-0.209	197	0	0.0	0.0	0.00- 2.00	0.00
4.719	4.928	-0.209	442	54360			50.00- 0.00	84.00
4.719	4.928	-0.209	199	3659			5.00- 9.00	5.65
4.719	4.928	-0.209	275	17856			10.00- 60.00	27.59
4.719	4.928	-0.209	365	3884			1.00- 0.00	6.00
4.719	4.928	-0.209	441	8520			0.01- 99.99	98.89
4.719	4.928	-0.209	443	8616			15.00- 24.00	15.85

Data File: 1AB15005.D

Date: 15-FEB-2013 15:08

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



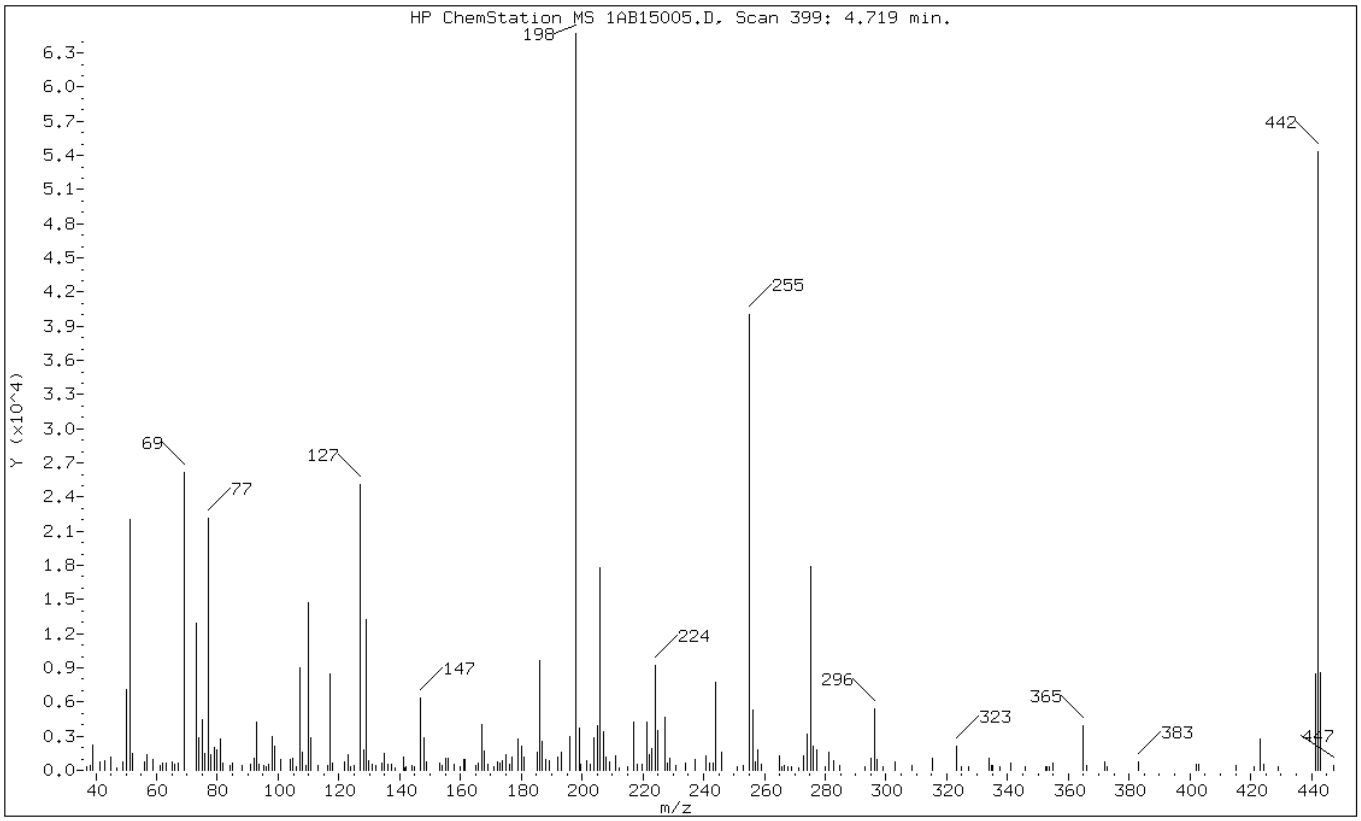
Data File: 1AB15005.D

Date: 15-FEB-2013 15:08

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.01
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.36
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	38.78
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	84.00
199	5.00 - 9.00% of mass 198	5.65
275	10.00 - 60.00% of mass 198	27.59
365	Greater than 1.00% of mass 198	6.00
441	Present, but less than mass 443	13.17
443	15.00 - 24.00% of mass 442	13.31 (15.85)

Data File: 1AB15005.D

Date: 15-FEB-2013 15:08

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15005.D
Spectrum: HP ChemStation MS 1AB15005.D, Scan 399: 4.719 min.
Location of Maximum: 198.00
Number of points: 205

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	337	113.00	413	185.10	1608	269.10	361
38.00	428	116.10	396	186.00	9661	271.10	251
39.00	2272	117.00	8421	187.00	2495	272.90	1248
41.20	762	117.90	652	188.00	938	274.10	3208
43.00	860	121.80	779	189.10	838	275.10	17856
45.10	1140	123.00	1401	192.10	1135	276.10	2074
47.10	263	124.00	296	193.10	1538	277.10	1830
48.90	772	125.00	386	196.10	2976	279.90	291
50.00	7139	127.00	25096	198.00	64712	281.00	1628
51.10	22008	128.00	1769	199.00	3659	282.90	810
52.00	1460	129.00	13265	199.70	517	284.80	450
56.00	701	129.90	873	201.50	877	293.00	266
56.90	1324	131.00	521	202.90	572	295.10	1010
59.00	911	132.10	394	204.00	2828	296.10	5422
61.20	425	134.10	611	205.00	3944	297.10	937
61.90	589	135.00	1436	206.00	17760	299.00	360
63.20	660	136.00	504	207.20	3392	303.10	728
65.00	742	137.10	523	207.90	1149	308.60	421
65.80	496	138.30	260	208.90	701	315.10	1085
67.20	612	141.10	1183	210.90	1225	323.30	2073
69.00	26120	141.60	257	212.10	255	324.80	303
73.10	12930	142.10	332	215.00	276	327.10	337
74.00	2861	143.90	427	217.00	4247	334.10	1018
75.00	4493	145.00	293	218.00	511	334.90	458
76.00	1531	147.00	6380	219.90	499	335.10	437
77.10	22120	148.00	2877	221.20	4269	337.40	302
78.00	1382	148.90	710	222.20	1392	341.20	623
79.00	2019	153.10	678	223.10	1932	345.90	339
80.00	1806	154.00	371	224.10	9201	352.40	341
81.00	2789	155.10	1104	225.10	3524	353.10	289
81.80	612	156.10	1073	227.10	4669	353.80	349
84.10	399	158.00	483	228.00	688	355.00	639
84.80	630	159.80	346	228.90	1100	365.00	3884
88.00	384	161.10	940	230.90	399	365.90	464
91.00	514	161.40	944	234.10	649	366.20	469
92.00	1047	161.60	884	237.10	931	372.10	748
93.00	4227	164.90	396	240.90	1311	372.80	317
93.70	498	165.10	408	242.10	588	382.90	729
95.20	403	166.00	631	243.00	645	402.20	548
96.00	363	166.90	4026	244.10	7780	403.00	486

97.00	510	168.00	1663	246.00	1623	415.10	392
98.10	2940	169.00	494	251.10	352	421.10	284
99.00	2169	170.80	312	253.20	454	423.10	2777
101.00	946	172.10	768	255.10	40000	424.20	497
104.00	973	173.10	643	256.10	5315	429.00	320
104.90	1076	173.90	854	257.00	694	441.20	8520
105.90	316	175.10	1325	257.90	1822	442.00	54360
107.00	9003	176.20	561	259.10	576	443.10	8616
108.00	1600	177.00	1145	264.90	1316	447.30	422
109.00	402	179.00	2793	265.80	353		
110.00	14767	180.00	2070	266.70	475		
110.90	2860	181.00	1182	267.90	327		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JAN-2013 11:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\c-dftpp198.m
Meth Date : 24-Sep-2012 11:04 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

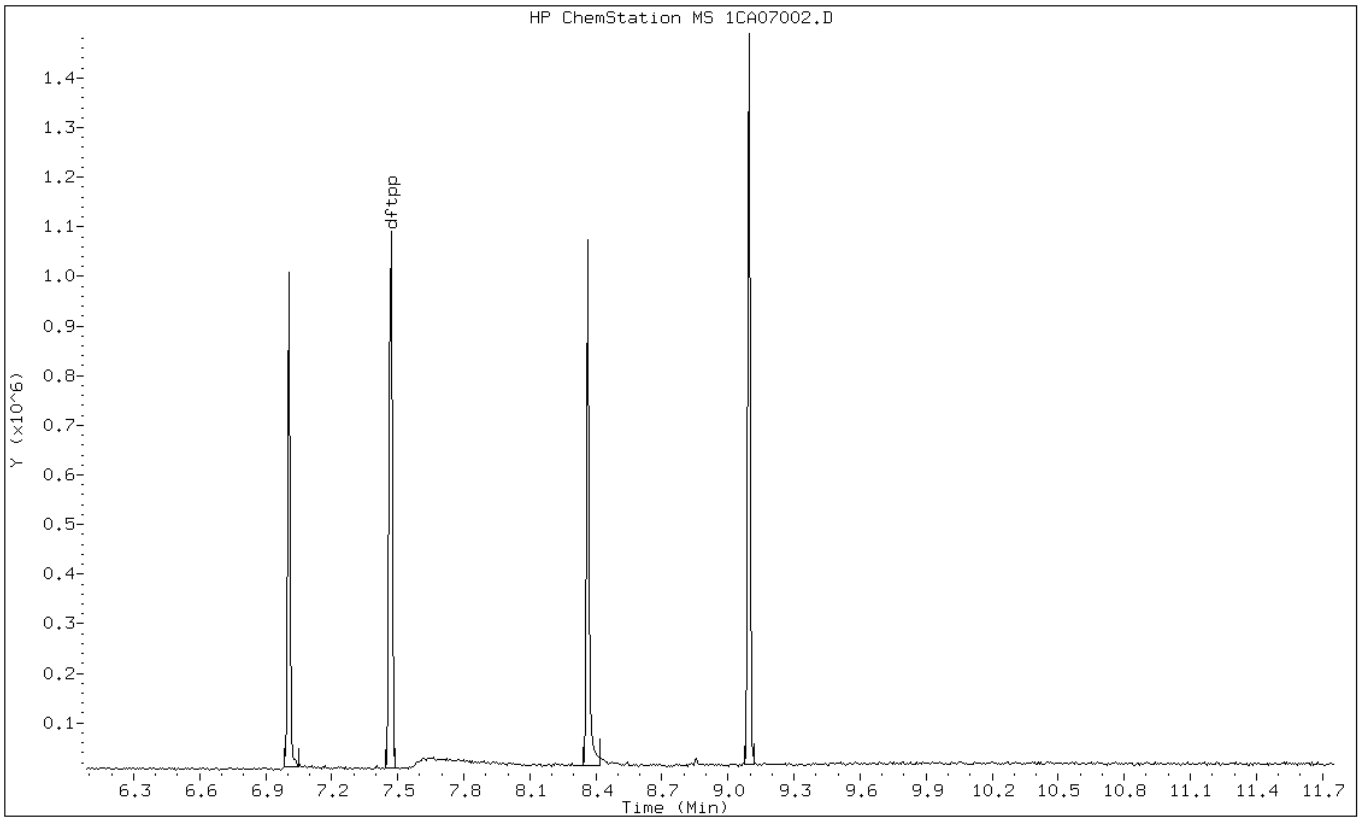
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.469	7.763	-0.294	198	127120			50.00- 0.00	100.00
7.469	7.763	-0.294	51	41280			10.00- 80.00	32.47
7.469	7.763	-0.294	68	533			0.00- 2.00	1.05
7.469	7.763	-0.294	69	50672			0.00- 0.00	39.86
7.469	7.763	-0.294	70	529			0.00- 2.00	1.04
7.469	7.763	-0.294	127	59544			10.00- 80.00	46.84
7.469	7.763	-0.294	197	1231			0.00- 2.00	0.97
7.469	7.763	-0.294	442	114480			50.00- 0.00	90.06
7.469	7.763	-0.294	199	7870			5.00- 9.00	6.19
7.469	7.763	-0.294	275	29224			10.00- 60.00	22.99
7.469	7.763	-0.294	365	3930			1.00- 0.00	3.09
7.469	7.763	-0.294	441	16880			0.01- 99.99	77.01
7.469	7.763	-0.294	443	21920			15.00- 24.00	19.15

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



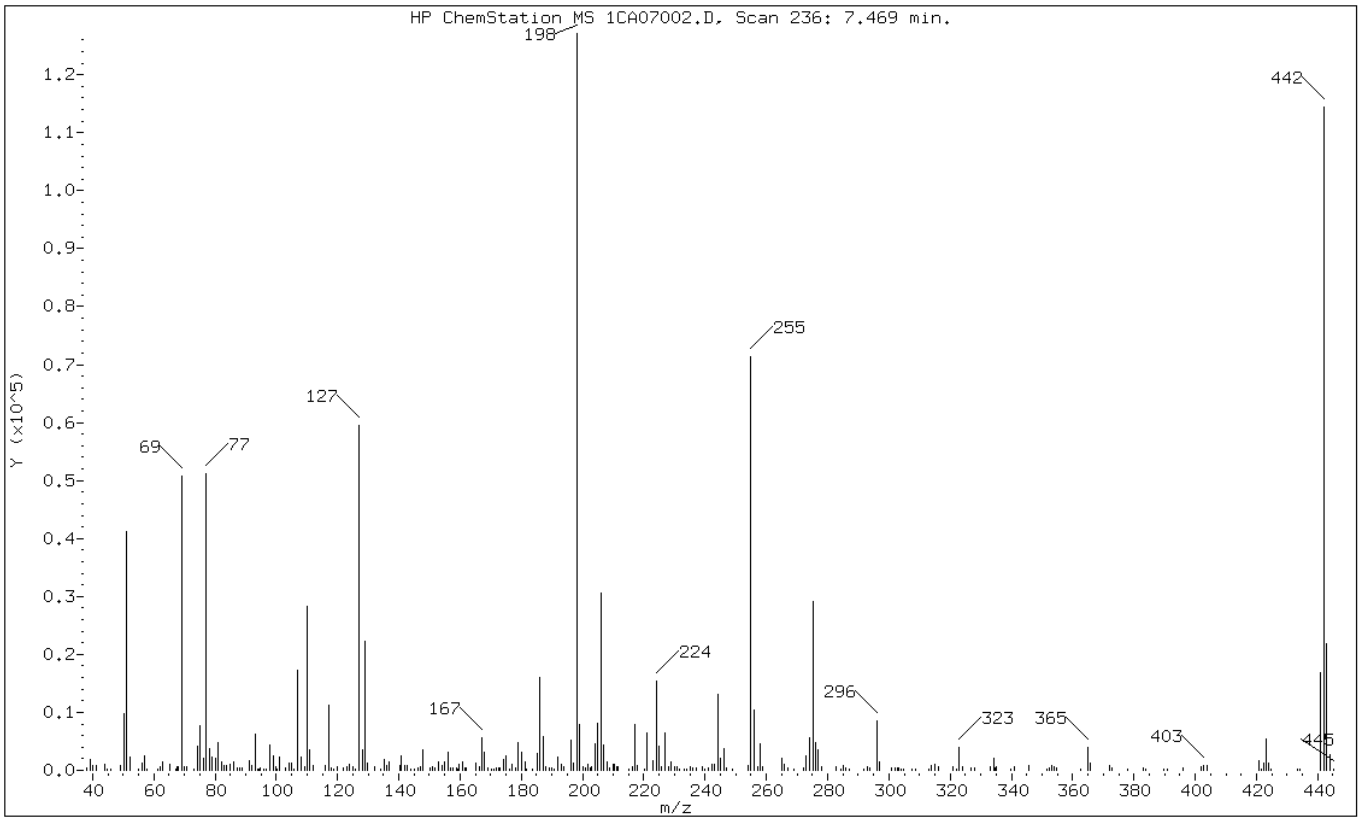
Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	32.47
68	Less than 2.00% of mass 69	0.42 (1.05)
69	Mass 69 relative abundance	39.86
70	Less than 2.00% of mass 69	0.42 (1.04)
127	10.00 - 80.00% of mass 198	46.84
197	Less than 2.00% of mass 198	0.97
442	Greater than 50.00% of mass 198	90.06
199	5.00 - 9.00% of mass 198	6.19
275	10.00 - 60.00% of mass 198	22.99
365	Greater than 1.00% of mass 198	3.09
441	Present, but less than mass 443	13.28
443	15.00 - 24.00% of mass 442	17.24 (19.15)

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Spectrum: HP ChemStation MS 1CA07002.D, Scan 236: 7.469 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	420	119.90	601	196.10	5188	285.10	914
39.10	1782	121.80	475	197.10	1231	286.00	390
40.00	839	123.00	633	198.00	127120	287.10	179
41.10	859	124.00	937	199.00	7870	291.80	160
44.10	1108	125.00	669	200.10	670	293.00	589
44.90	152	125.90	258	200.90	482	293.90	453
45.90	156	127.10	59544	201.60	949	296.00	8526
49.00	871	128.10	3506	202.40	400	297.00	1368
50.10	9842	129.10	22208	203.00	538	300.70	479
51.10	41280	129.90	1266	204.00	4533	302.10	418
52.10	2357	132.10	617	205.00	8018	302.90	472
55.00	276	134.10	298	206.10	30592	303.30	414
56.00	1192	135.20	1953	207.00	4423	304.00	250
57.00	2442	136.10	890	208.00	1503	304.90	167
57.90	185	137.00	1425	208.80	471	307.70	155
61.30	188	140.20	914	210.00	937	308.80	244
62.00	685	140.90	2482	210.50	1006	313.00	279
63.00	1392	141.90	797	211.00	696	313.90	813
65.10	1132	142.90	864	211.60	536	315.00	1012
67.10	153	144.10	161	215.00	234	316.00	692
67.70	533	145.10	150	216.10	583	321.00	591
68.10	627	146.20	391	217.00	7970	322.00	171
69.10	50672	147.10	718	217.90	767	323.00	3997
70.10	529	148.00	3470	220.10	248	324.00	655
70.80	521	150.20	424	221.10	6401	327.00	413
73.10	282	151.00	649	222.80	1599	328.10	455
74.10	4253	151.80	327	224.10	15340	333.00	681
75.10	7783	153.00	1468	225.10	4235	334.10	2080
76.20	2092	154.10	806	225.90	587	334.80	423
77.10	51200	155.00	1543	227.00	6494	335.20	609
78.10	3708	156.00	3046	228.00	644	339.70	262
79.10	2279	156.90	385	228.90	1504	341.10	544
80.00	1989	157.80	369	230.00	552	345.80	748
81.00	4740	158.70	485	230.90	613	351.50	280
82.00	1539	159.20	191	231.70	188	352.30	428
82.90	800	159.80	1069	233.10	217	353.10	740
83.90	857	161.00	1449	234.00	303	354.00	654
85.00	1057	161.70	319	235.00	716	354.70	475
86.10	1480	162.10	352	235.90	363	362.50	264
87.10	445	165.00	1236	237.10	461	365.00	3930

87.90	375	166.20	671
89.00	333	167.00	5703
91.10	1642	168.00	3193
91.90	746	169.00	422
93.10	6202	170.10	237
93.80	300	171.00	275
94.20	188	171.90	443
94.80	488	172.80	465
96.10	190	173.10	403
96.90	185	174.20	1825
98.00	4388	175.10	2490
99.00	2420	176.00	265
99.70	568	176.80	966
100.20	212	178.00	357
101.10	2275	179.00	4862
103.00	381	180.10	3189
104.00	1148	181.10	1541
105.00	1192	181.80	286
105.80	271	183.60	157
107.00	17216	185.10	2863
108.00	2207	186.10	15999
109.20	723	187.10	5787
110.00	28384	188.10	556
111.00	3607	189.20	469
112.10	771	190.10	335
116.00	796	190.60	276
117.00	11205	192.00	2219
118.00	466	193.00	1058
118.90	198	194.00	556

238.90	530	365.90	1347
239.70	227	372.00	894
241.00	373	372.90	491
242.10	1013	378.00	155
243.10	1025	382.90	344
244.10	13028	383.80	260
245.00	2095	389.90	193
246.00	3792	391.00	205
247.10	451	396.00	313
249.10	154	402.00	707
253.90	895	402.90	932
255.00	71336	404.00	827
256.00	10460	421.00	1613
257.10	645	421.60	223
258.00	4542	422.20	1189
258.80	695	423.00	5417
264.90	2158	424.10	1194
266.00	1029	424.70	185
267.20	353	433.30	241
269.00	264	434.10	201
272.10	445	441.00	16880
273.10	2581	442.00	114480
274.00	5681	443.00	21920
275.10	29224	444.00	2789
276.00	4836	445.20	272
277.00	3605		
278.10	644		
282.80	642		
284.50	218		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 14-FEB-2013 14:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

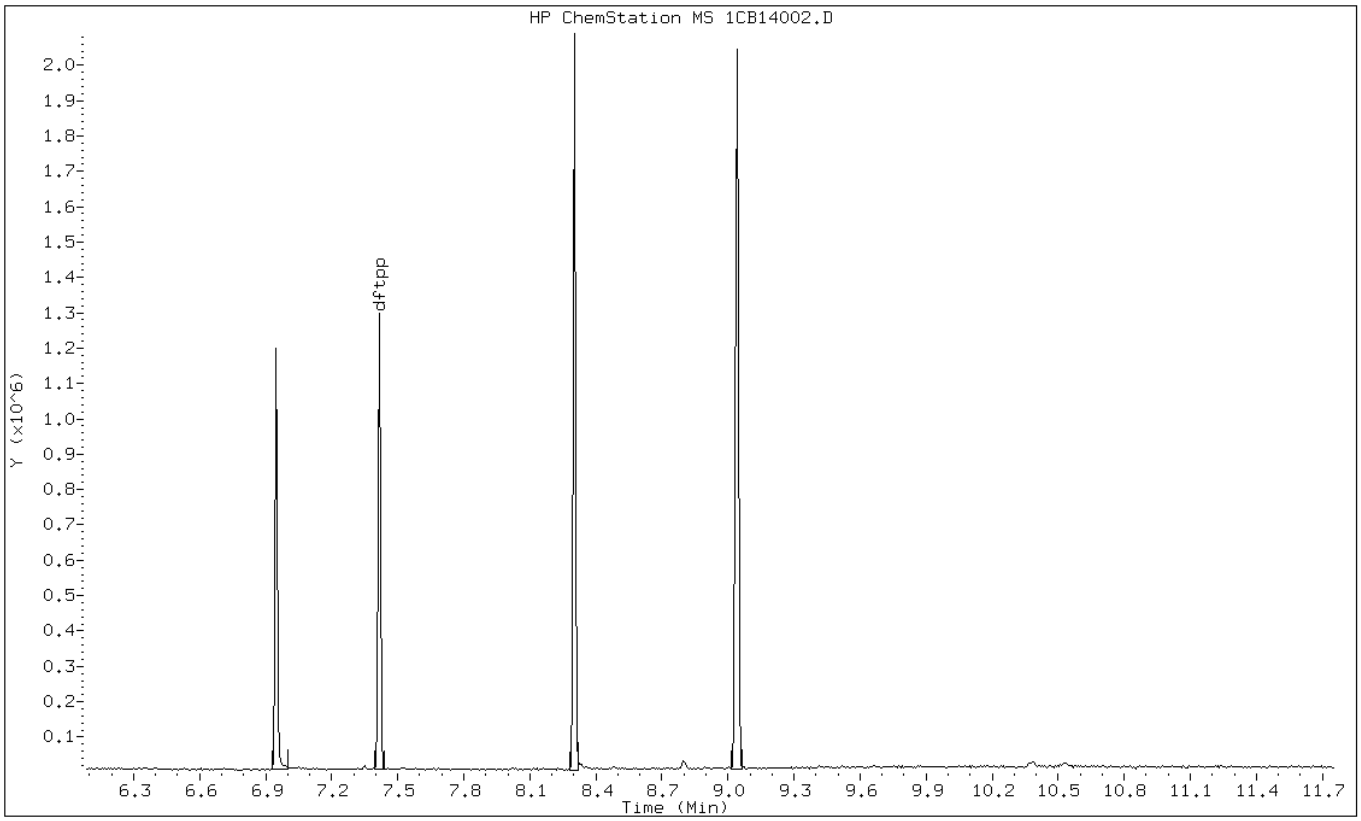
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.416	7.469	-0.053	198	147136			50.00- 0.00	100.00
7.416	7.469	-0.053	51	43504			10.00- 80.00	29.57
7.416	7.469	-0.053	68	1232			0.00- 2.00	1.77
7.416	7.469	-0.053	69	69464			0.00- 0.00	47.21
7.416	7.469	-0.053	70	657			0.00- 2.00	0.95
7.416	7.469	-0.053	127	65264			10.00- 80.00	44.36
7.416	7.469	-0.053	197	1264			0.00- 2.00	0.86
7.416	7.469	-0.053	442	134592			50.00- 0.00	91.47
7.416	7.469	-0.053	199	9949			5.00- 9.00	6.76
7.416	7.469	-0.053	275	36416			10.00- 60.00	24.75
7.416	7.469	-0.053	365	4730			1.00- 0.00	3.21
7.416	7.469	-0.053	441	19448			0.01- 99.99	71.14
7.416	7.469	-0.053	443	27336			15.00- 24.00	20.31

Data File: 1CB14002.D

Date: 14-FEB-2013 14:34

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



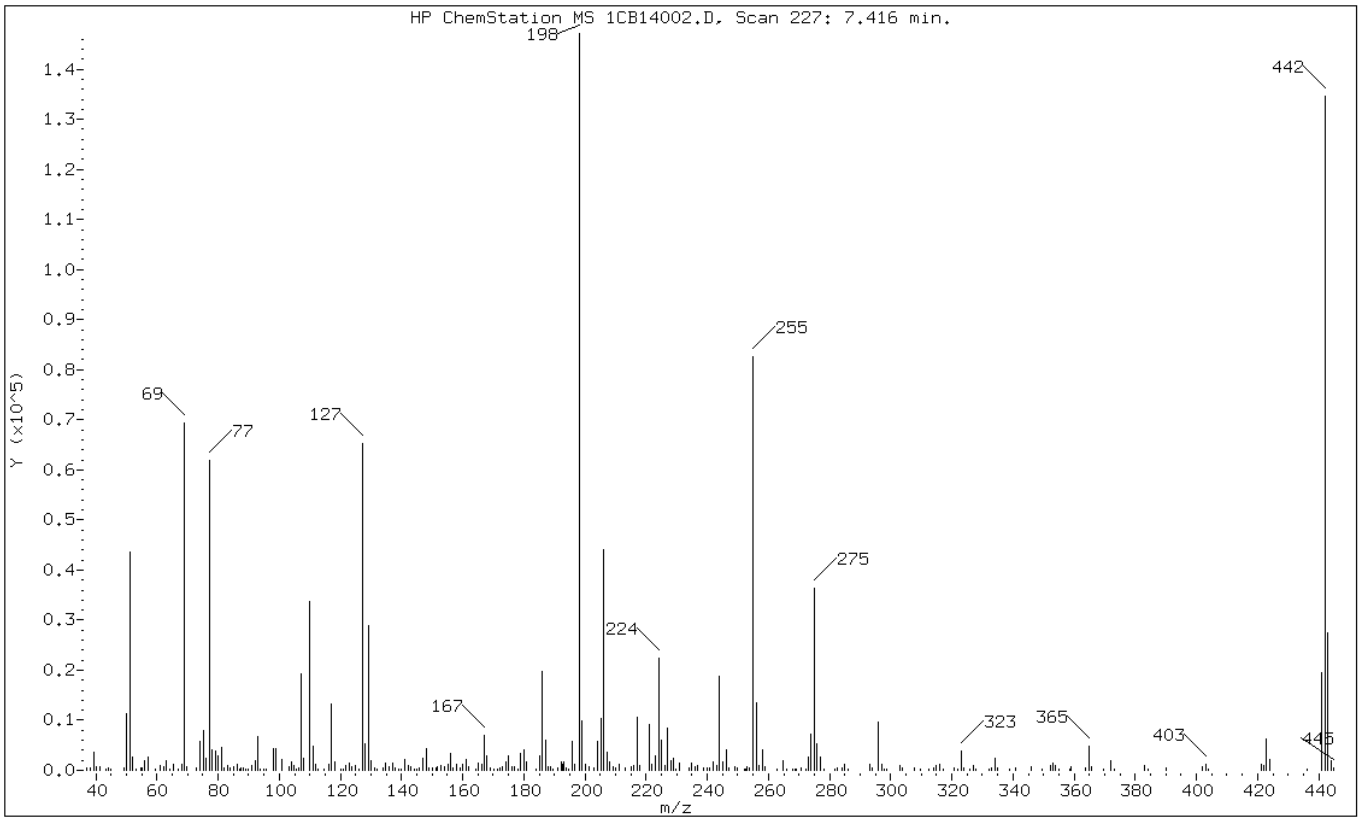
Data File: 1CB14002.D

Date: 14-FEB-2013 14:34

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.57
68	Less than 2.00% of mass 69	0.84 (1.77)
69	Mass 69 relative abundance	47.21
70	Less than 2.00% of mass 69	0.45 (0.95)
127	10.00 - 80.00% of mass 198	44.36
197	Less than 2.00% of mass 198	0.86
442	Greater than 50.00% of mass 198	91.47
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 60.00% of mass 198	24.75
365	Greater than 1.00% of mass 198	3.21
441	Present, but less than mass 443	13.22
443	15.00 - 24.00% of mass 442	18.58 (20.31)

Data File: 1CB14002.D

Date: 14-FEB-2013 14:34

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14002.D
Spectrum: HP ChemStation MS 1CB14002.D, Scan 227: 7.416 min.
Location of Maximum: 198.00
Number of points: 275

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	371	118.10	1621	192.10	1669	274.00	7171
38.20	434	120.00	350	192.80	1234	275.10	36416
39.20	3690	121.10	235	193.20	1571	276.00	5295
40.00	751	121.90	867	194.00	510	277.10	2710
41.20	634	123.00	1501	194.80	269	278.00	302
43.30	257	123.80	696	196.00	5700	281.90	259
44.10	501	125.00	861	196.70	1264	282.70	580
45.00	242	125.90	259	198.00	147136	284.10	372
49.10	474	127.10	65264	199.00	9949	285.00	1159
50.10	11289	128.00	5253	200.00	1120	286.10	320
51.10	43504	129.10	28840	201.30	749	293.10	1289
52.10	2547	130.10	1883	203.00	486	293.80	438
53.20	273	131.00	536	204.00	5828	296.00	9634
54.90	420	132.00	246	205.10	10422	297.10	1137
55.20	420	134.10	533	206.10	44136	298.00	188
56.00	1847	134.90	1414	207.10	3702	298.80	298
57.10	2548	135.90	648	208.00	1687	302.90	997
59.30	179	137.10	1507	209.10	694	303.90	573
61.10	1009	138.00	510	210.00	391	307.80	500
62.20	732	139.00	299	211.10	1277	309.90	157
63.00	2021	139.90	184	213.00	379	312.60	338
64.10	217	141.10	2150	215.00	808	314.00	574
65.20	1212	142.10	928	215.90	975	315.00	853
66.90	214	143.00	733	217.00	10597	316.00	1171
68.20	1232	144.00	272	218.00	1000	317.10	301
69.00	69464	145.10	343	221.10	9031	320.80	448
69.80	657	145.90	374	221.90	1292	322.10	164
72.80	492	147.00	2509	223.10	2822	323.10	3972
74.10	5754	148.00	4230	224.10	22440	323.90	486
75.10	8015	149.10	601	225.00	5911	326.00	204
76.10	2308	150.10	437	226.10	1017	326.90	921
77.10	61960	151.10	405	227.00	8453	327.90	313
78.00	4024	151.60	658	228.00	1821	332.10	269
79.10	3970	153.00	851	229.00	2324	333.00	478
80.10	2777	154.10	680	229.90	314	334.00	2331
81.10	4524	155.10	1295	230.90	1472	335.00	458
82.10	542	156.10	3265	233.90	513	338.90	161
83.00	955	157.00	396	235.00	1400	341.00	394
84.00	467	158.00	1185	236.00	615	346.00	727
84.90	615	159.10	365	237.00	943	349.60	233

86.10	1229	160.00	1304	238.70	365	352.10	846
86.90	215	161.10	2118	239.90	532	353.00	1436
87.40	519	162.00	740	240.90	442	353.90	1004
88.10	401	164.10	349	242.00	1716	355.00	212
89.00	184	165.00	1451	243.00	964	358.50	181
89.90	300	166.10	1191	244.10	18816	359.00	622
91.00	960	167.10	7096	245.10	1792	363.60	385
92.10	1860	168.00	2883	246.10	4033	365.00	4730
93.00	6781	169.10	583	247.10	489	365.70	766
93.80	329	170.10	204	249.00	702	369.50	155
95.00	321	171.20	201	250.00	367	371.80	1997
95.90	155	172.30	378	252.00	222	373.10	288
98.10	4350	172.80	778	252.60	264	383.10	894
99.00	4394	174.10	1636	253.10	619	384.10	266
101.00	2169	175.00	2797	253.80	409	390.00	501
103.10	759	176.30	836	255.00	82560	401.90	683
104.00	1648	176.90	809	256.10	13484	403.00	1288
104.90	863	177.90	314	257.10	887	403.90	254
105.60	249	179.00	3326	258.10	4011	421.10	1226
106.20	541	180.00	4090	259.00	816	422.00	875
107.00	19168	181.00	1573	262.90	287	423.00	6310
108.00	2424	184.10	327	264.90	1826	424.10	2184
110.10	33656	185.10	2795	266.10	338	436.30	206
111.10	4801	186.10	19768	268.00	212	441.00	19448
111.90	1095	187.10	6050	268.70	179	442.00	134592
112.70	293	188.10	809	269.10	339	443.10	27336
114.80	274	188.90	712	270.90	375	444.00	1885
116.10	1269	189.70	197	272.10	222	444.90	520
117.10	13317	191.10	469	273.00	2533		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 15-FEB-2013 11:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 3 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

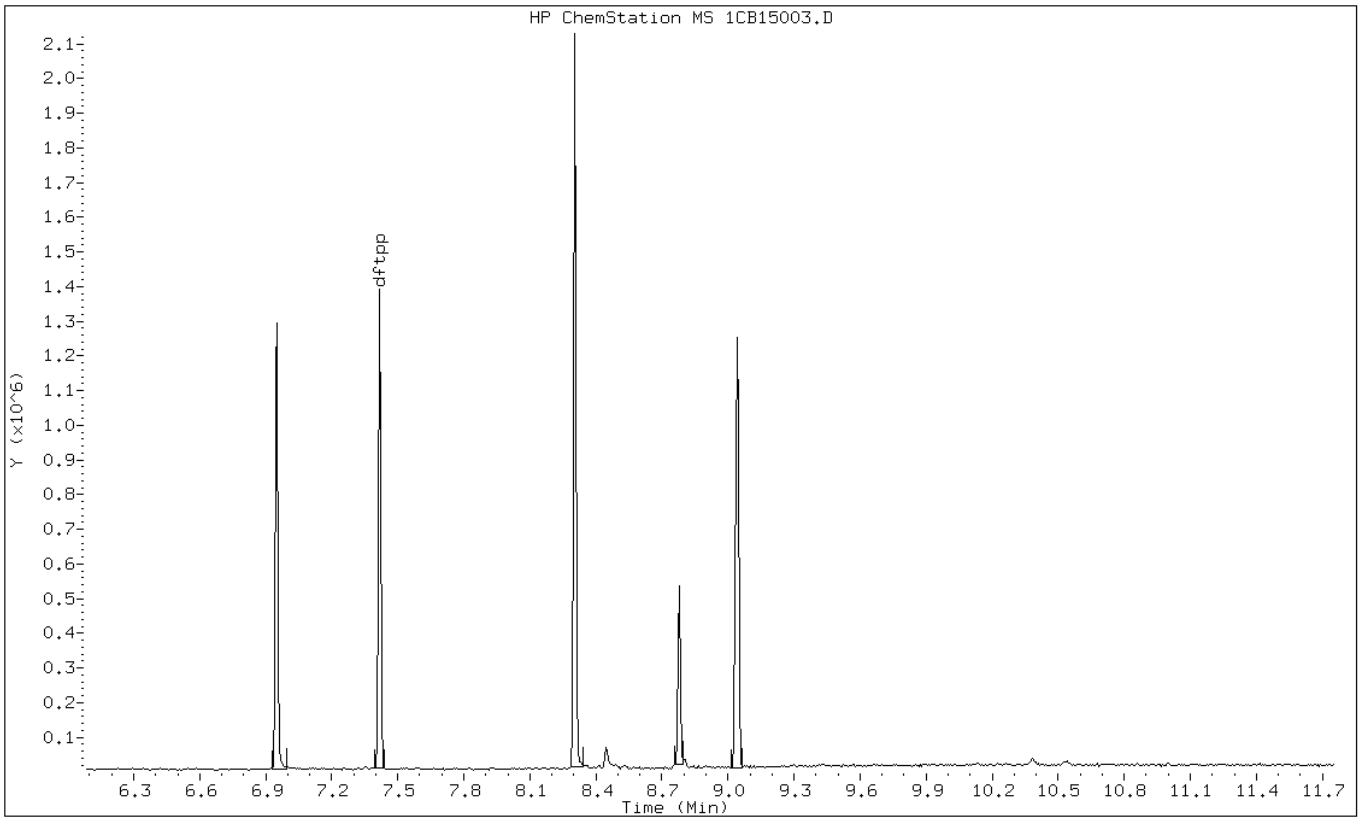
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.416	7.469	-0.053	198	165504			50.00- 0.00	100.00
7.416	7.469	-0.053	51	54416			10.00- 80.00	32.88
7.416	7.469	-0.053	68	766			0.00- 2.00	1.06
7.416	7.469	-0.053	69	72000			0.00- 0.00	43.50
7.416	7.469	-0.053	70	581			0.00- 2.00	0.81
7.416	7.469	-0.053	127	77344			10.00- 80.00	46.73
7.416	7.469	-0.053	197	1518			0.00- 2.00	0.92
7.416	7.469	-0.053	442	118800			50.00- 0.00	71.78
7.416	7.469	-0.053	199	12221			5.00- 9.00	7.38
7.416	7.469	-0.053	275	37832			10.00- 60.00	22.86
7.416	7.469	-0.053	365	4167			1.00- 0.00	2.52
7.416	7.469	-0.053	441	18088			0.01- 99.99	68.47
7.416	7.469	-0.053	443	26416			15.00- 24.00	22.24

Data File: 1CB15003.D

Date: 15-FEB-2013 11:40

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



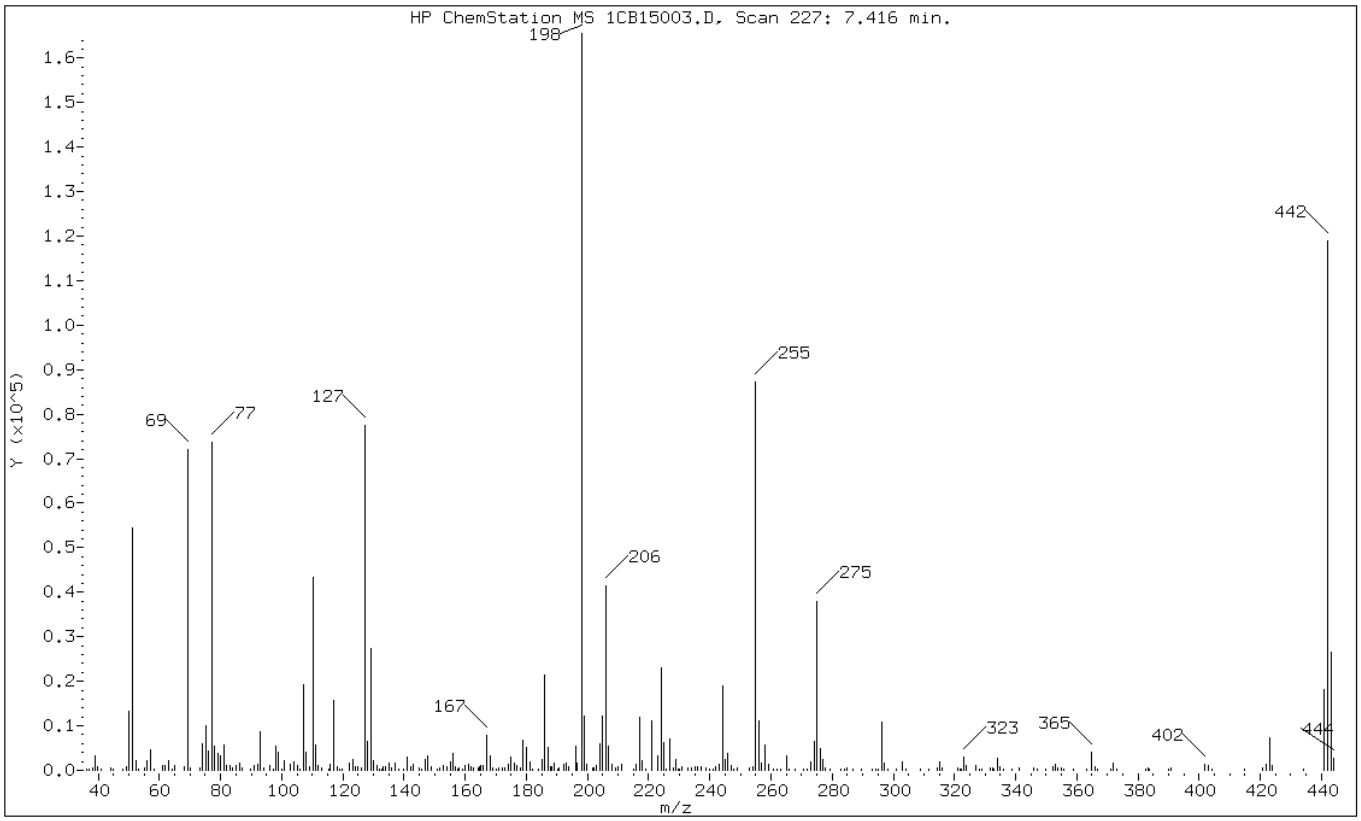
Data File: 1CB15003.D

Date: 15-FEB-2013 11:40

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	32.88
68	Less than 2.00% of mass 69	0.46 (1.06)
69	Mass 69 relative abundance	43.50
70	Less than 2.00% of mass 69	0.35 (0.81)
127	10.00 - 80.00% of mass 198	46.73
197	Less than 2.00% of mass 198	0.92
442	Greater than 50.00% of mass 198	71.78
199	5.00 - 9.00% of mass 198	7.38
275	10.00 - 60.00% of mass 198	22.86
365	Greater than 1.00% of mass 198	2.52
441	Present, but less than mass 443	10.93
443	15.00 - 24.00% of mass 442	15.96 (22.24)

Data File: 1CB15003.D

Date: 15-FEB-2013 11:40

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15003.D
Spectrum: HP ChemStation MS 1CB15003.D, Scan 227: 7.416 min.
Location of Maximum: 198.00
Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	202	124.10	700	196.10	5316	284.10	264
36.90	243	124.90	823	196.70	1518	285.00	483
38.20	616	126.20	562	198.00	165504	286.90	160
39.10	3384	127.10	77344	199.00	12221	289.70	189
39.90	889	128.10	6489	199.90	1426	292.90	399
40.80	302	129.10	27432	201.50	582	294.20	258
44.10	516	130.00	2118	202.20	551	295.00	177
44.80	250	131.00	998	203.00	1069	296.10	10818
48.00	217	132.00	196	204.10	5947	297.00	1601
49.10	877	132.60	307	205.00	12112	298.20	227
50.10	13274	133.30	716	206.10	41432	301.00	167
51.10	54416	134.10	878	207.00	5303	303.00	1988
52.20	2036	135.00	1641	208.00	1318	304.00	168
53.10	288	136.00	512	209.10	537	308.90	250
55.10	607	137.10	1602	210.10	753	311.70	321
56.00	2100	138.10	266	211.00	1469	314.30	618
57.10	4572	139.90	247	214.90	338	315.00	1867
58.10	259	141.10	2882	216.00	1341	316.10	514
61.10	998	142.00	869	217.00	11805	321.20	649
62.00	979	142.80	1359	218.00	2111	321.70	196
63.10	2248	145.10	551	218.90	177	322.20	229
64.10	270	145.60	338	221.00	10980	323.10	3075
65.00	1105	147.10	2483	223.00	3215	324.00	1052
68.20	766	147.90	3295	224.10	23040	327.00	962
69.10	72000	149.00	742	225.10	6130	328.20	336
70.00	581	150.90	323	225.80	396	329.00	186
73.10	433	151.50	502	227.00	7147	331.90	642
74.10	5836	153.00	1125	227.90	594	332.60	428
75.10	10029	154.00	851	228.90	2511	332.90	380
76.10	4206	155.00	1827	229.80	196	334.00	2608
77.10	73600	156.00	3890	230.20	348	334.90	681
78.10	5411	156.80	721	231.00	747	336.20	299
79.00	3847	157.50	383	232.90	483	338.80	227
80.00	3333	158.10	622	234.10	548	341.10	653
81.10	5637	159.00	160	235.10	782	346.00	613
82.10	1178	160.00	1187	236.00	688	346.90	232
83.10	1140	161.20	1356	237.00	755	350.00	359
83.80	655	161.90	878	238.80	636	352.00	931
85.10	1107	162.80	435	239.90	263	353.00	1335
86.10	1537	164.20	556	240.90	381	353.90	610

87.10	640	164.70	934	242.00	929	355.00	448
89.80	341	165.10	1112	242.90	1362	355.90	243
91.00	1187	166.00	1080	244.10	18880	359.00	178
92.00	1229	167.00	7874	245.00	2451	363.10	158
93.00	8763	168.00	3199	246.00	3682	365.00	4167
94.30	561	168.90	627	247.00	956	366.10	730
96.20	996	170.00	286	247.90	382	366.80	287
97.20	280	171.10	455	249.00	495	371.10	328
98.10	5552	172.00	527	253.10	579	372.00	1655
98.90	4020	173.10	673	253.90	932	372.90	339
100.10	321	174.10	1226	255.00	87176	382.70	294
101.00	2274	175.00	3070	256.00	11041	383.20	506
102.90	1366	176.10	1660	257.00	1497	383.70	208
103.90	2024	177.00	1128	258.00	5747	389.90	172
105.00	1170	178.10	421	259.10	1374	390.90	446
105.90	196	179.00	6675	260.90	243	402.00	1419
107.10	19208	180.10	5043	262.00	249	403.00	950
108.00	3986	181.00	1852	263.00	153	404.10	229
109.00	692	181.90	256	265.10	3325	415.00	187
110.10	43448	184.10	362	265.90	370	420.90	600
111.10	5619	185.00	2502	268.00	304	422.10	1356
111.90	1165	186.10	21320	270.60	307	423.00	7370
112.90	432	187.10	5202	271.90	232	424.10	1156
115.20	374	187.90	723	273.00	1819	434.00	203
115.90	1431	188.20	705	274.10	6497	441.00	18088
117.10	15618	189.10	1540	275.00	37832	442.00	118800
118.00	924	190.10	318	276.00	4895	443.10	26416
119.10	357	190.80	591	277.00	2366	444.00	2685
119.90	320	192.10	1282	277.90	434		
122.00	1620	193.00	1544	279.30	358		
123.10	2553	194.00	743	282.90	292		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-FEB-2013 13:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

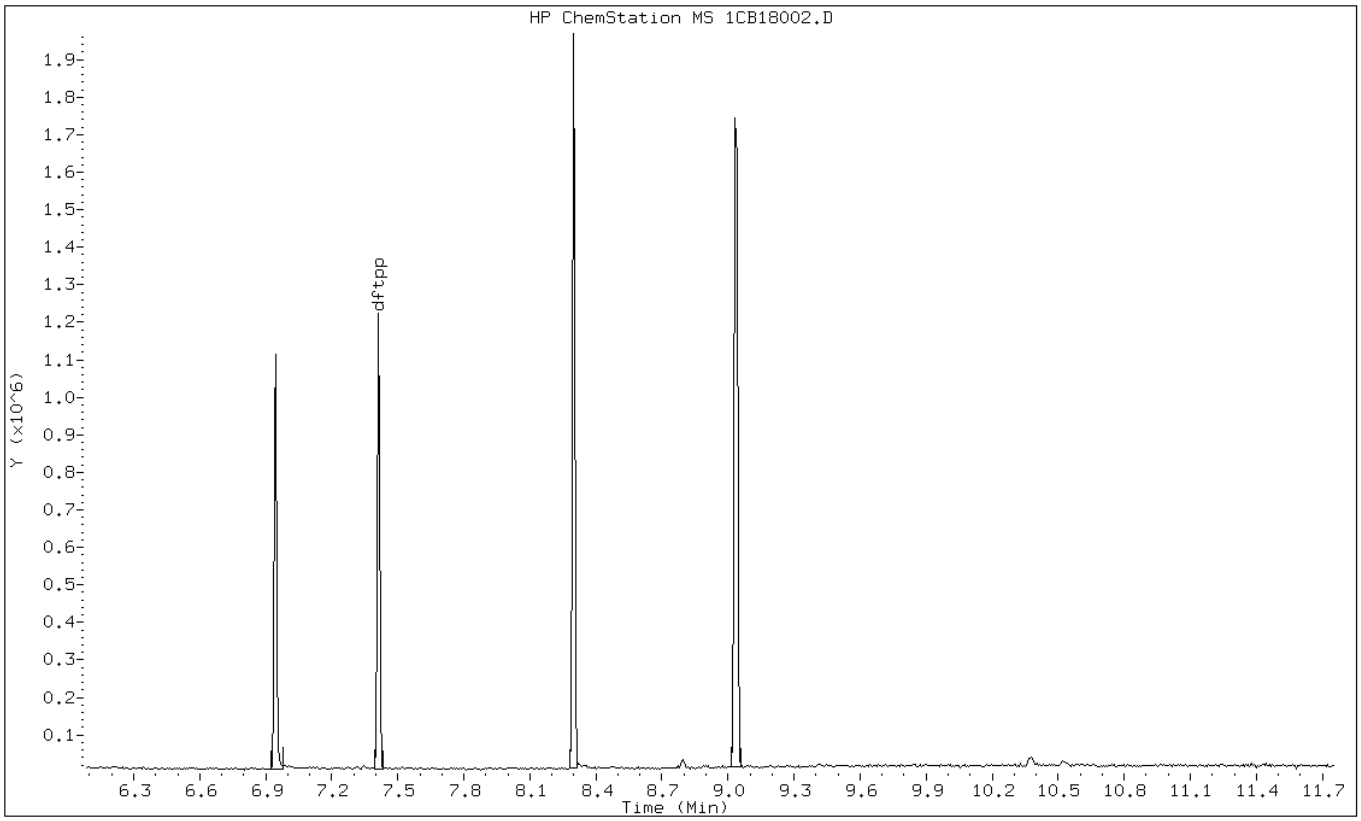
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.410	7.469	-0.059	198	145216			50.00- 0.00	100.00
7.410	7.469	-0.059	51	51064			10.00- 80.00	35.16
7.410	7.469	-0.059	68	1067			0.00- 2.00	1.61
7.410	7.469	-0.059	69	66456			0.00- 0.00	45.76
7.410	7.469	-0.059	70	355			0.00- 2.00	0.53
7.410	7.469	-0.059	127	66960			10.00- 80.00	46.11
7.410	7.469	-0.059	197	1418			0.00- 2.00	0.98
7.410	7.469	-0.059	442	106200			50.00- 0.00	73.13
7.410	7.469	-0.059	199	9488			5.00- 9.00	6.53
7.410	7.469	-0.059	275	32072			10.00- 60.00	22.09
7.410	7.469	-0.059	365	4814			1.00- 0.00	3.32
7.410	7.469	-0.059	441	15700			0.01- 99.99	79.78
7.410	7.469	-0.059	443	19680			15.00- 24.00	18.53

Data File: 1CB18002.D

Date: 18-FEB-2013 13:50

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



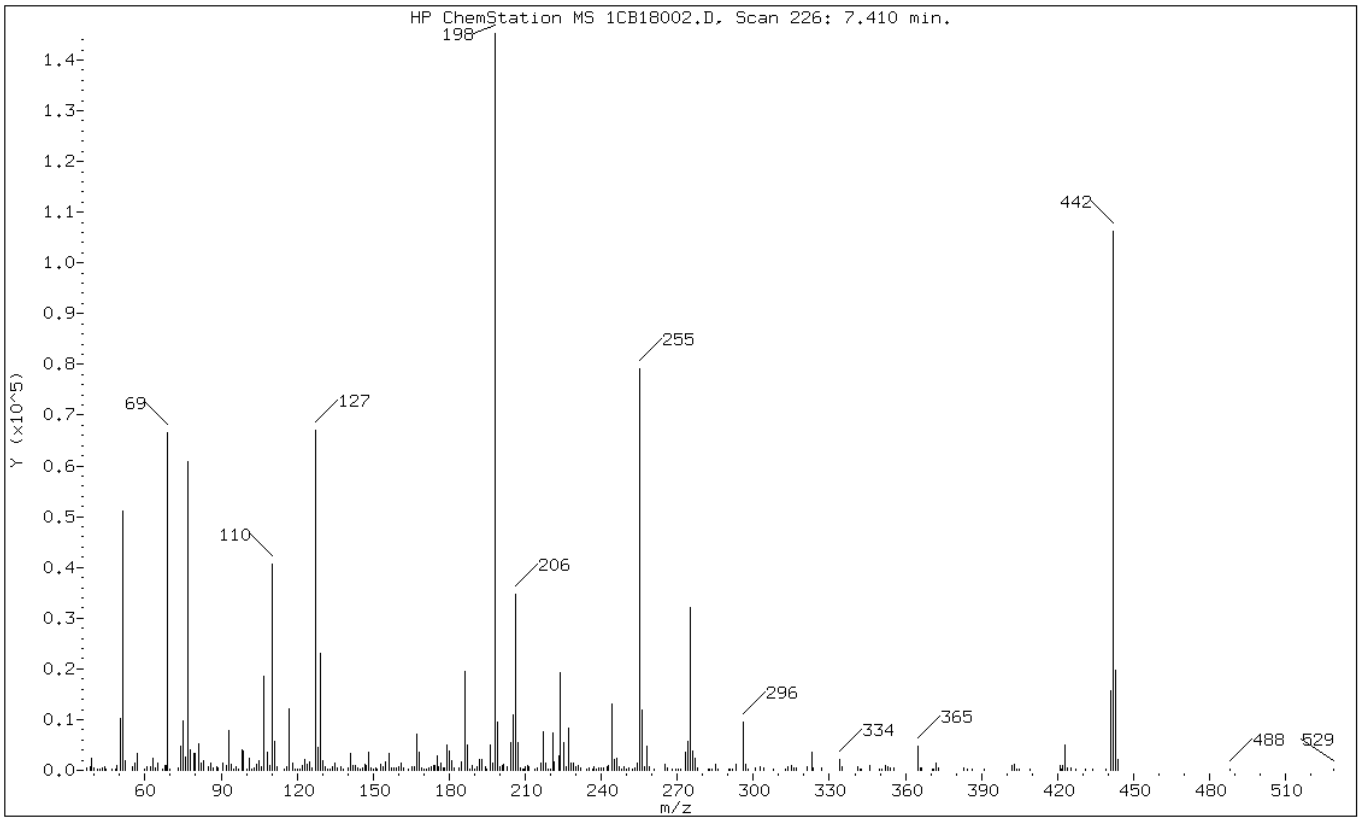
Data File: 1CB18002.D

Date: 18-FEB-2013 13:50

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	35.16
68	Less than 2.00% of mass 69	0.73 (1.61)
69	Mass 69 relative abundance	45.76
70	Less than 2.00% of mass 69	0.24 (0.53)
127	10.00 - 80.00% of mass 198	46.11
197	Less than 2.00% of mass 198	0.98
442	Greater than 50.00% of mass 198	73.13
199	5.00 - 9.00% of mass 198	6.53
275	10.00 - 60.00% of mass 198	22.09
365	Greater than 1.00% of mass 198	3.32
441	Present, but less than mass 443	10.81
443	15.00 - 24.00% of mass 442	13.55 (18.53)

Data File: 1CB18002.D

Date: 18-FEB-2013 13:50

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18002.D
Spectrum: HP ChemStation MS 1CB18002.D, Scan 226: 7.410 min.
Location of Maximum: 198.00
Number of points: 295

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	443	122.00	935	194.90	276	275.00	32072
38.20	600	123.10	2204	196.10	5040	276.10	3692
39.10	2391	123.90	1296	197.10	1418	277.00	2483
39.90	573	125.10	1742	198.00	145216	278.00	538
41.10	278	125.80	539	199.00	9488	282.10	201
42.00	154	127.10	66960	200.10	633	282.80	260
43.10	411	128.10	4509	201.20	1069	283.80	183
44.10	735	129.00	23144	201.50	1204	285.10	1204
44.70	238	130.00	1989	202.90	643	285.90	294
47.10	170	131.10	666	204.10	5487	290.10	240
48.20	235	131.90	356	205.10	10861	290.90	175
49.10	896	133.00	184	206.10	34616	291.80	277
50.10	10205	134.00	768	207.10	5565	293.10	1093
51.10	51064	135.00	1413	208.20	359	296.00	9534
52.10	1877	135.80	482	209.00	307	296.90	1133
54.90	674	137.20	686	209.70	193	298.10	214
56.00	1357	138.00	282	210.20	669	300.70	427
57.10	3399	140.00	384	211.00	951	302.90	671
59.90	199	141.10	3214	211.60	754	304.00	556
61.00	763	141.90	1049	213.80	156	307.80	320
62.20	685	142.90	852	214.90	446	312.70	334
63.10	2375	144.10	445	216.00	1332	313.80	711
64.10	397	145.10	217	217.00	7680	314.80	1005
65.00	1452	145.80	374	218.10	1422	316.00	501
66.90	159	146.70	1161	219.00	212	316.90	378
67.80	1067	147.20	1061	220.10	221	321.10	656
68.20	1051	148.10	3673	221.00	7334	323.10	3484
69.00	66456	149.00	454	221.60	1626	323.80	369
70.00	355	149.90	309	223.10	2849	327.10	506
73.00	513	150.30	201	224.00	19192	334.00	2065
74.20	4856	150.90	454	225.10	5369	335.10	649
75.00	9808	151.40	282	226.00	699	341.10	791
76.00	2640	153.00	1260	227.00	8322	342.00	240
77.10	60752	153.80	677	228.10	1355	342.80	249
78.10	4060	155.00	1702	229.00	1354	345.90	971
79.10	3373	156.10	3218	229.90	677	349.90	276
80.00	3260	157.10	454	231.00	927	350.80	152
81.10	5308	158.00	406	231.90	527	352.00	859
82.00	1396	159.00	390	234.00	308	352.90	603
83.20	1812	160.10	663	235.10	416	354.00	469

85.10	770	161.10	1476	236.60	264	355.20	416
86.00	1365	161.90	577	237.10	820	365.00	4814
87.10	520	163.80	319	237.80	154	365.70	373
88.10	621	165.10	682	239.00	504	366.20	391
88.90	553	166.20	816	239.80	522	370.50	172
90.90	1393	167.00	7078	240.70	461	371.10	154
92.00	1026	168.00	3589	241.10	291	372.00	1475
93.10	7947	168.90	484	242.10	820	373.00	474
94.00	1243	169.90	198	243.00	1054	382.90	401
95.00	281	171.10	189	244.10	13067	384.20	308
96.00	661	172.00	520	245.00	2206	386.10	193
96.90	153	173.00	741	246.10	2260	391.10	237
98.10	3999	173.80	869	247.10	636	402.00	859
99.00	3764	174.40	946	248.10	230	402.90	1196
100.00	253	175.10	2826	248.90	616	404.00	213
101.00	2429	175.80	743	249.90	275	405.00	218
102.00	314	176.90	1474	251.10	387	409.30	211
103.10	476	177.70	433	252.20	325	420.80	878
104.00	1192	178.10	415	253.10	484	421.60	293
105.00	1945	179.00	4960	254.00	1378	422.00	944
106.00	649	180.10	3833	255.00	79224	423.00	5039
107.10	18440	181.10	1818	256.00	11788	423.90	582
108.10	3652	182.00	398	256.90	712	425.20	437
109.10	866	184.00	442	258.10	4754	427.10	184
110.10	40592	185.00	1736	259.00	699	431.10	267
111.10	5721	186.10	19456	260.90	184	434.00	215
112.00	679	187.00	4992	265.00	1160	439.10	271
114.90	189	187.90	187	266.00	393	441.10	15700
115.90	641	189.00	854	268.00	282	442.00	106200
117.00	12171	190.20	198	269.20	194	443.00	19680
118.10	1328	191.10	617	270.40	173	444.00	2067
119.20	185	192.10	2115	271.30	174	488.10	181
120.10	196	193.10	2066	273.00	3560	528.90	172
121.00	153	194.10	768	274.00	5743		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87279-1
SDG No.: 68087279-1
Client Sample ID:
Lab Sample ID: MB 660-134445/1-A
Matrix: Solid
Lab File ID: 1AB14029.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/13/2013 15:28
Sample wt/vol: 14.99(g)
Date Analyzed: 02/14/2013 16:54
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134523
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	96		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14029.D
Lab Smp Id: mb 660-134445/1-a
Inj Date : 14-FEB-2013 16:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-134445/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 29 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

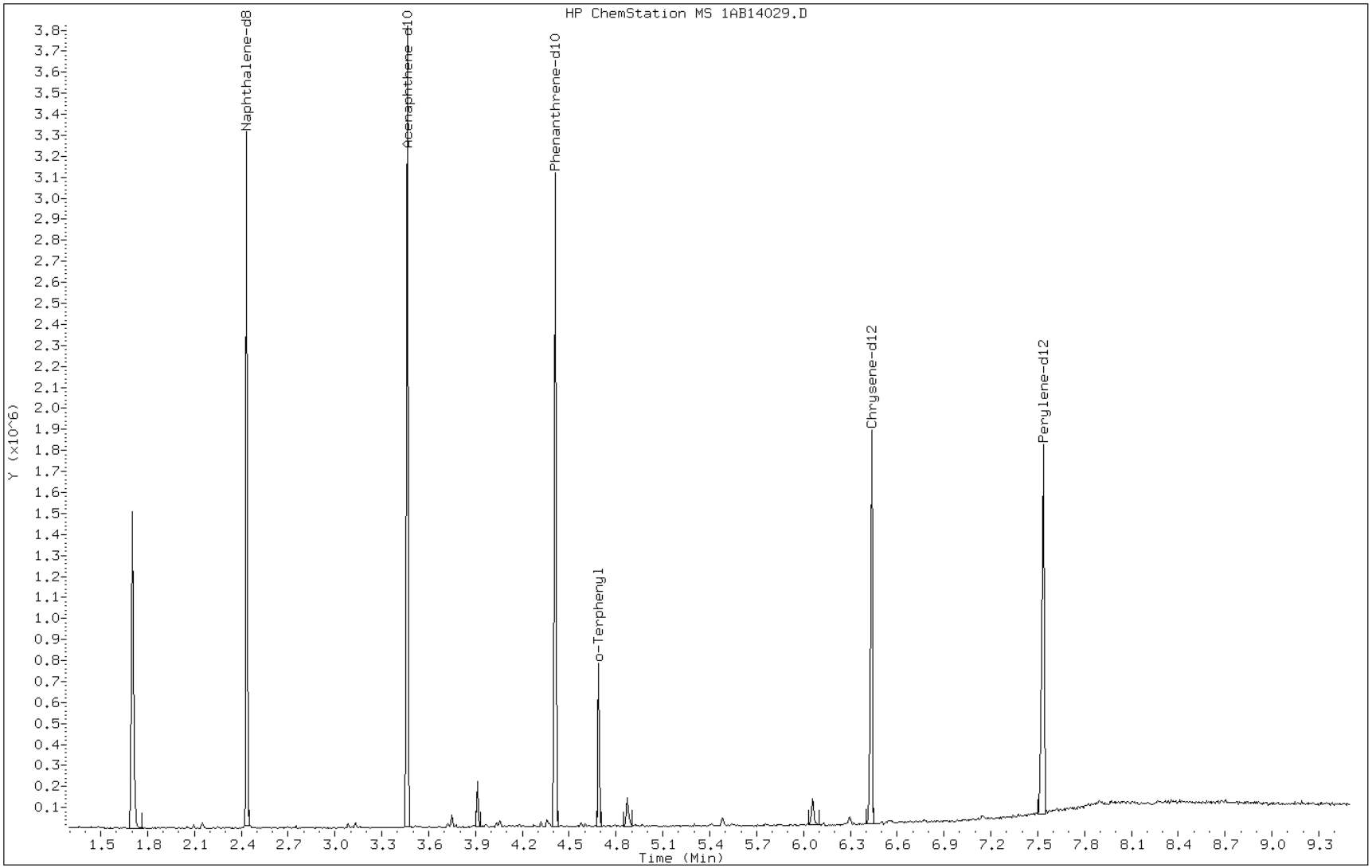
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.434	2.430	(1.000)	814176	40.0000	
* 6 Acenaphthene-d10	164	3.465	3.461	(1.000)	552151	40.0000	
* 10 Phenanthrene-d10	188	4.411	4.402	(1.000)	751940	40.0000	
$ 14 o-Terphenyl	230	4.689	4.685	(1.063)	104611	9.57442	638.7207
* 18 Chrysene-d12	240	6.435	6.426	(1.000)	532630	40.0000	
* 23 Perylene-d12	264	7.536	7.527	(1.000)	580910	40.0000	

Data File: 1AB14029.D

Date: 14-FEB-2013 16:54

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-134445/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: | Lab Sample ID: MB 660-134455/1-A

Matrix: Solid | Lab File ID: 1AB15008.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.15(g) | Date Analyzed: 02/15/2013 15:52

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15008.D
Lab Smp Id: mb 660-134455/1-a
Inj Date : 15-FEB-2013 15:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-134455/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

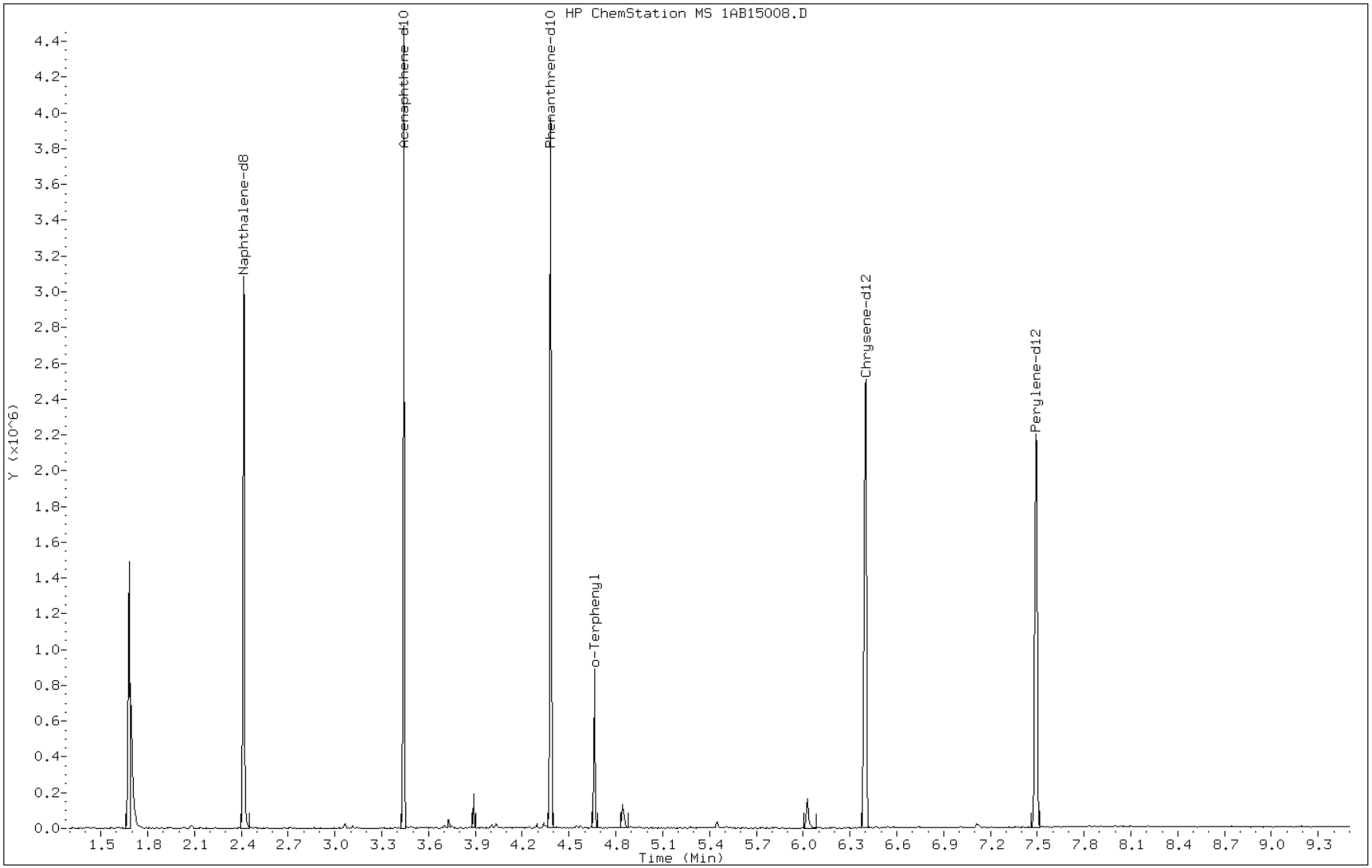
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.412	2.415	(1.000)	1027824	40.0000	
* 6 Acenaphthene-d10	164	3.443	3.441	(1.000)	716597	40.0000	
* 10 Phenanthrene-d10	188	4.383	4.386	(1.000)	1014397	40.0000	
$ 14 o-Terphenyl	230	4.661	4.664	(1.063)	130646	8.86353	585.0513
* 18 Chrysene-d12	240	6.402	6.411	(1.000)	843677	40.0000	
* 23 Perylene-d12	264	7.498	7.501	(1.000)	853259	40.0000	

Data File: 1AB15008.D

Date: 15-FEB-2013 15:52

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-134455/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87279-1
SDG No.: 68087279-1
Client Sample ID:
Lab Sample ID: LCS 660-134445/2-A
Matrix: Solid
Lab File ID: 1AB14030.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/13/2013 15:28
Sample wt/vol: 15.30(g)
Date Analyzed: 02/14/2013 17:10
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134523
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	414		98	20
208-96-8	Acenaphthylene	401		39	4.9
120-12-7	Anthracene	435		8.2	4.1
56-55-3	Benzo[a]anthracene	488		7.8	3.8
50-32-8	Benzo[a]pyrene	351		10	5.1
205-99-2	Benzo[b]fluoranthene	337		12	6.0
191-24-2	Benzo[g,h,i]perylene	417		20	4.3
207-08-9	Benzo[k]fluoranthene	413		7.8	3.5
218-01-9	Chrysene	419		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	419		20	4.0
206-44-0	Fluoranthene	494		20	3.9
86-73-7	Fluorene	429		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	405		20	7.0
90-12-0	1-Methylnaphthalene	451		39	4.3
91-57-6	2-Methylnaphthalene	482		39	7.0
91-20-3	Naphthalene	413		39	4.3
85-01-8	Phenanthrene	437		7.8	3.8
129-00-0	Pyrene	439		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14030.D
Lab Smp Id: lcs 660-134445/2-a
Inj Date : 14-FEB-2013 17:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-134445/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 30 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.300	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.437	2.430	(1.000)	895638	40.0000	
* 6 Acenaphthene-d10	164	3.468	3.461	(1.000)	574202	40.0000	
* 10 Phenanthrene-d10	188	4.414	4.402	(1.000)	797237	40.0000	
$ 14 o-Terphenyl	230	4.686	4.685	(1.062)	88350	7.62672	498.4781
* 18 Chrysene-d12	240	6.438	6.426	(1.000)	658548	40.0000	
* 23 Perylene-d12	264	7.539	7.527	(1.000)	622309	40.0000	
2 Naphthalene	128	2.448	2.441	(1.004)	137273	6.31453	412.7143
3 2-Methylnaphthalene	141	2.848	2.847	(1.169)	85915	7.37712	482.1643
4 1-Methylnaphthalene	142	2.907	2.900	(1.193)	91007	6.90316	451.1868
5 Acenaphthylene	152	3.377	3.371	(0.974)	155682	6.14034	401.3294
7 Acenaphthene	154	3.484	3.477	(1.005)	87025	6.34169	414.4898
9 Fluorene	166	3.794	3.787	(1.094)	113317	6.56717	429.2265
11 Phenanthrene	178	4.424	4.418	(1.002)	145602	6.68882	437.1776
12 Anthracene	178	4.456	4.455	(1.010)	147727	6.65624	435.0486

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.617	4.610	(1.046)	132840	6.98267	456.3838
15 Fluoranthene	202	5.290	5.283	(1.198)	163026	7.55393	493.7210
16 Pyrene	202	5.461	5.454	(0.848)	159877	6.72220	439.3592
17 Benzo(a)anthracene	228	6.428	6.416	(0.998)	146823	7.46684	488.0285
19 Chrysene	228	6.454	6.448	(1.002)	123015	6.41830	419.4965
20 Benzo(b)fluoranthene	252	7.256	7.244	(0.962)	89432	5.14901	336.5363
21 Benzo(k)fluoranthene	252	7.272	7.265	(0.965)	114620	6.31180	412.5357
22 Benzo(a)pyrene	252	7.485	7.479	(0.993)	88652	5.37492	351.3016
24 Indeno(1,2,3-cd)pyrene	276	8.281	8.275	(1.098)	80790	6.20323	405.4396(M)
25 Dibenzo(a,h)anthracene	278	8.292	8.291	(1.100)	83417	6.40679	418.7446
26 Benzo(g,h,i)perylene	276	8.495	8.494	(1.127)	86097	6.38101	417.0594

QC Flag Legend

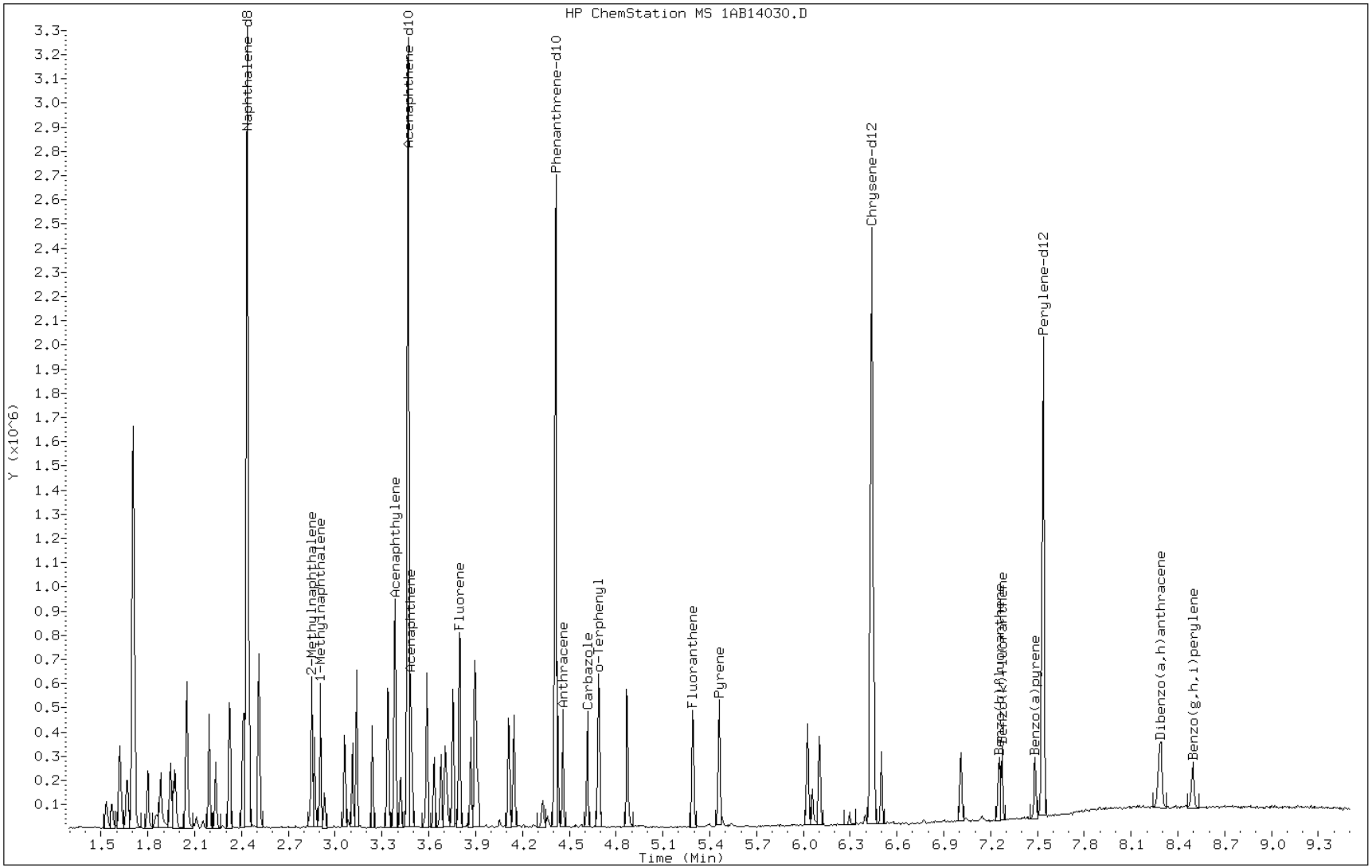
M - Compound response manually integrated.

Data File: 1AB14030.D

Date: 14-FEB-2013 17:10

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-134445/2-a Operator: SCC



Manual Integration Report

Data File: 1AB14030.D
Inj. Date and Time: 14-FEB-2013 17:10
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

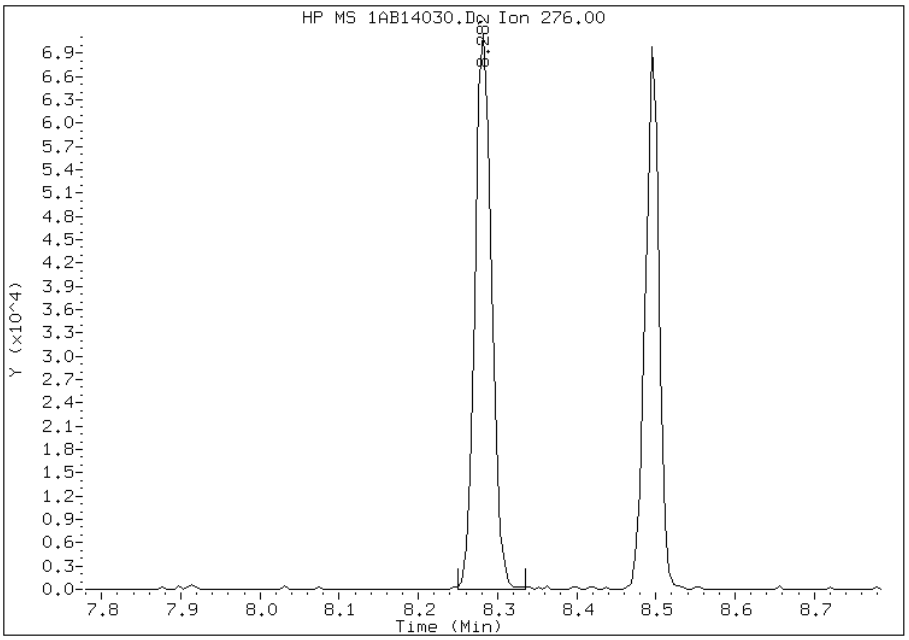
Processing Integration Results

RT: 8.28

Response: 103636

Amount: 8

Conc: 520



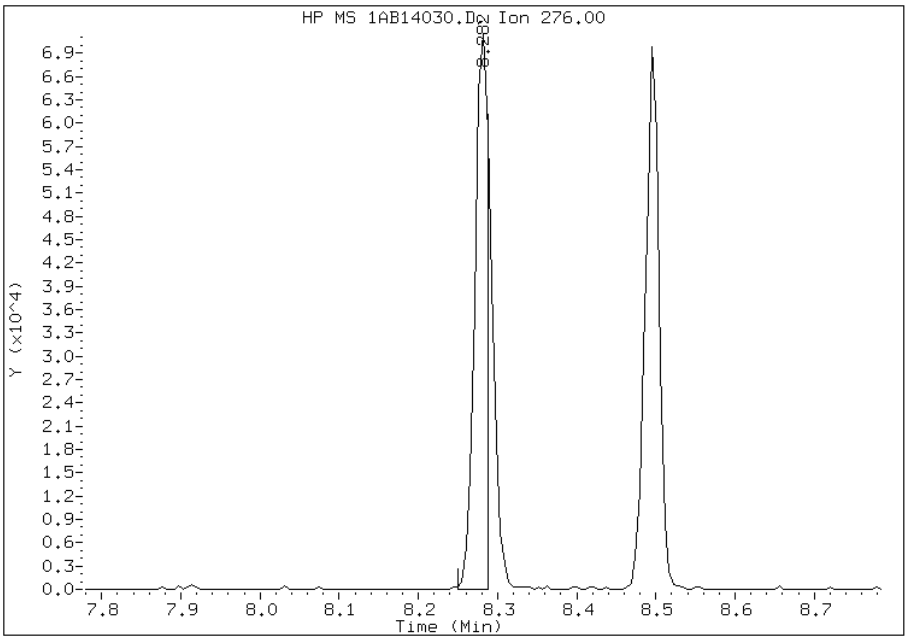
Manual Integration Results

RT: 8.28

Response: 80790

Amount: 6

Conc: 405



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 12:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: | Lab Sample ID: LCS 660-134455/2-A

Matrix: Solid | Lab File ID: 1AB15009.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.14(g) | Date Analyzed: 02/15/2013 16:07

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	415		99	20
208-96-8	Acenaphthylene	416		40	5.0
120-12-7	Anthracene	452		8.3	4.2
56-55-3	Benzo[a]anthracene	532		7.9	3.9
50-32-8	Benzo[a]pyrene	467		10	5.2
205-99-2	Benzo[b]fluoranthene	483		12	6.0
191-24-2	Benzo[g,h,i]perylene	507		20	4.4
207-08-9	Benzo[k]fluoranthene	502		7.9	3.6
218-01-9	Chrysene	487		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	491		20	4.1
206-44-0	Fluoranthene	485		20	4.0
86-73-7	Fluorene	426		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	552		20	7.0
90-12-0	1-Methylnaphthalene	458		40	4.4
91-57-6	2-Methylnaphthalene	492		40	7.0
91-20-3	Naphthalene	446		40	4.4
85-01-8	Phenanthrene	452		7.9	3.9
129-00-0	Pyrene	440		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15009.D
Lab Smp Id: lcs 660-134455/2-a
Inj Date : 15-FEB-2013 16:07
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-134455/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.416	2.415	(1.000)	987109	40.0000	
* 6 Acenaphthene-d10	164	3.441	3.441	(1.000)	666683	40.0000	
* 10 Phenanthrene-d10	188	4.381	4.386	(1.000)	1000324	40.0000	
$ 14 o-Terphenyl	230	4.665	4.664	(1.065)	109496	7.53314	497.5653
* 18 Chrysene-d12	240	6.401	6.411	(1.000)	831616	40.0000	
* 23 Perylene-d12	264	7.496	7.501	(1.000)	824033	40.0000	
2 Naphthalene	128	2.426	2.426	(1.004)	161909	6.75763	446.3426
3 2-Methylnaphthalene	141	2.827	2.832	(1.170)	95642	7.45133	492.1616
4 1-Methylnaphthalene	142	2.886	2.885	(1.195)	100646	6.92687	457.5211
5 Acenaphthylene	152	3.356	3.355	(0.975)	185240	6.29266	415.6313
7 Acenaphthene	154	3.457	3.462	(1.005)	100101	6.28268	414.9722
9 Fluorene	166	3.767	3.772	(1.095)	129206	6.44928	425.9759
11 Phenanthrene	178	4.397	4.402	(1.004)	186819	6.83990	451.7768
12 Anthracene	178	4.430	4.434	(1.011)	190707	6.84830	452.3316

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.584	4.589	(1.046)	158862	6.65518	439.5757
15 Fluoranthene	202	5.258	5.262	(1.200)	198676	7.33683	484.5989
16 Pyrene	202	5.429	5.433	(0.848)	200069	6.66146	439.9909
17 Benzo(a)anthracene	228	6.390	6.395	(0.998)	199876	8.04948	531.6697
19 Chrysene	228	6.417	6.427	(1.002)	178335	7.36823	486.6728
20 Benzo(b)fluoranthene	252	7.218	7.217	(0.963)	168015	7.30533	482.5186
21 Benzo(k)fluoranthene	252	7.234	7.239	(0.965)	182695	7.59768	501.8279
22 Benzo(a)pyrene	252	7.448	7.452	(0.994)	154376	7.06845	466.8727
24 Indeno(1,2,3-cd)pyrene	276	8.228	8.238	(1.098)	144234	8.36352	552.4122(M)
25 Dibenzo(a,h)anthracene	278	8.244	8.254	(1.100)	128059	7.42776	490.6048
26 Benzo(g,h,i)perylene	276	8.436	8.446	(1.125)	137143	7.67603	507.0030

QC Flag Legend

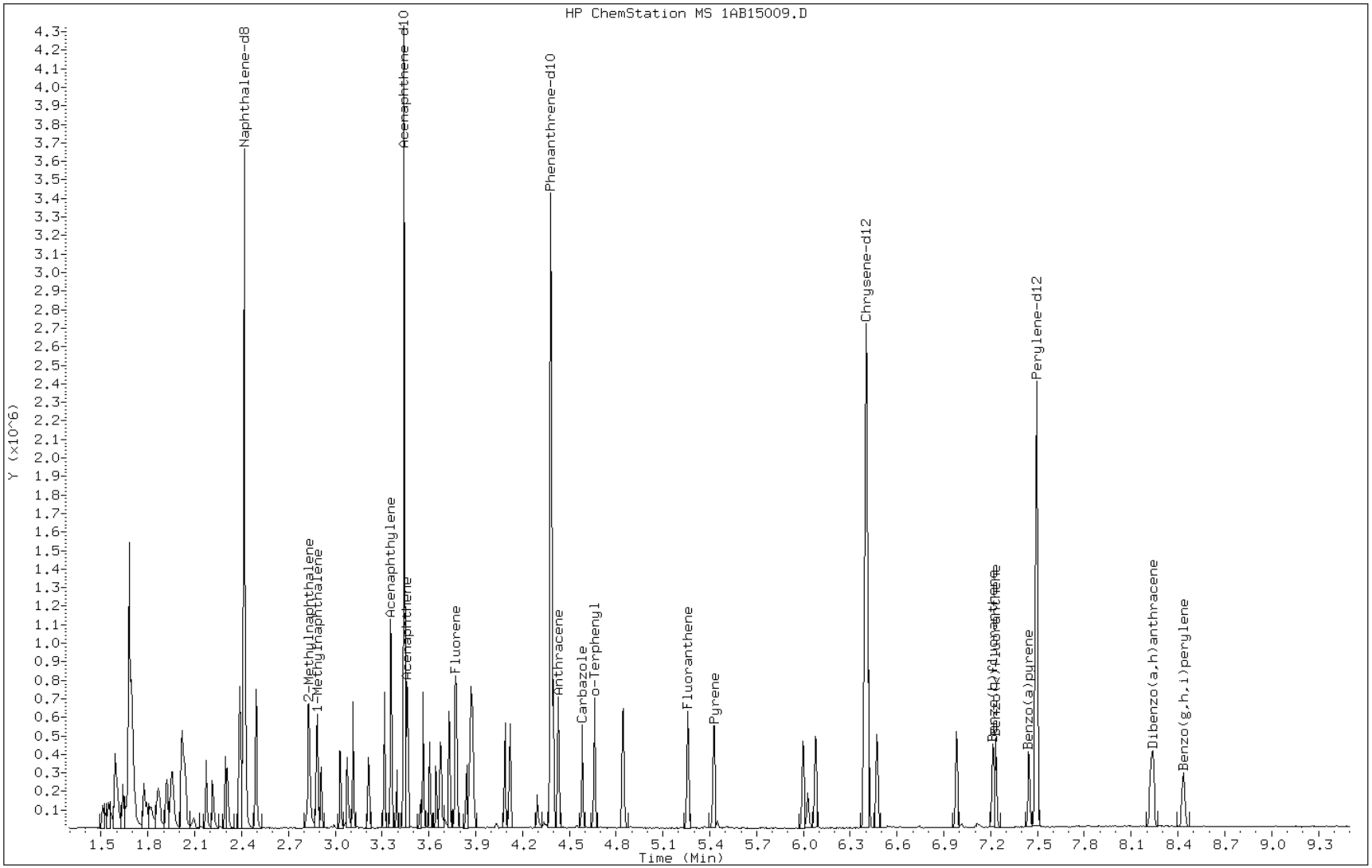
M - Compound response manually integrated.

Data File: 1AB15009.D

Date: 15-FEB-2013 16:07

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-134455/2-a Operator: SCC



Manual Integration Report

Data File: 1AB15009.D
Inj. Date and Time: 15-FEB-2013 16:07
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

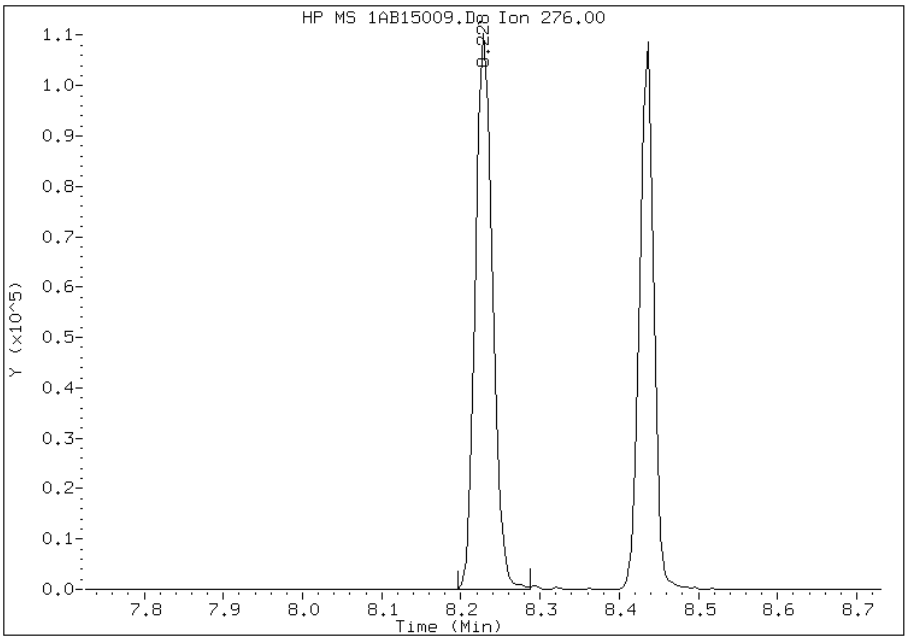
Processing Integration Results

RT: 8.23

Response: 165140

Amount: 10

Conc: 632



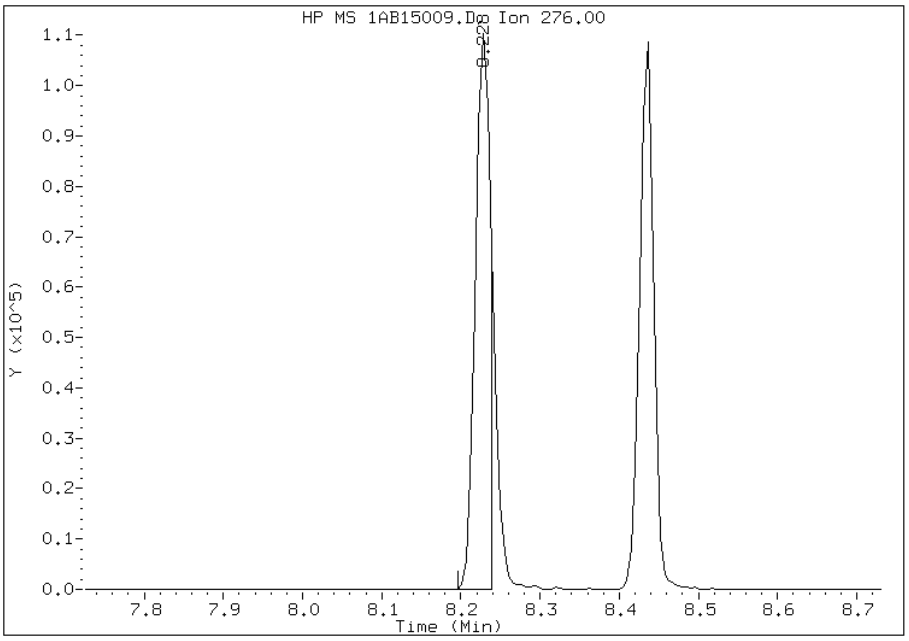
Manual Integration Results

RT: 8.23

Response: 144234

Amount: 8

Conc: 552



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: | Lab Sample ID: 680-87218-A-45-B MS

Matrix: Solid | Lab File ID: 1AB14036.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/13/2013 15:28

Sample wt/vol: 15.25(g) | Date Analyzed: 02/14/2013 18:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	394		120	24
208-96-8	Acenaphthylene	417		47	5.9
120-12-7	Anthracene	487		10	5.0
56-55-3	Benzo[a]anthracene	590		9.5	4.6
50-32-8	Benzo[a]pyrene	390		12	6.2
205-99-2	Benzo[b]fluoranthene	449		14	7.2
191-24-2	Benzo[g,h,i]perylene	452		24	5.2
207-08-9	Benzo[k]fluoranthene	418		9.5	4.3
218-01-9	Chrysene	458		11	5.3
53-70-3	Dibenz(a,h)anthracene	391		24	4.9
206-44-0	Fluoranthene	551		24	4.7
86-73-7	Fluorene	451		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	578		24	8.4
90-12-0	1-Methylnaphthalene	425		47	5.2
91-57-6	2-Methylnaphthalene	425		47	8.4
91-20-3	Naphthalene	393		47	5.2
85-01-8	Phenanthrene	517		9.5	4.6
129-00-0	Pyrene	520		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14036.D
Lab Smp Id: 680-87218-a-45-b ms
Inj Date : 14-FEB-2013 18:40
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-45-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 36 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.433	2.430	(1.000)	853961	40.0000	
* 6 Acenaphthene-d10	164	3.464	3.461	(1.000)	535075	40.0000	
* 10 Phenanthrene-d10	188	4.409	4.402	(1.000)	744930	40.0000	
$ 14 o-Terphenyl	230	4.687	4.685	(1.063)	76877	7.10231	465.7250
* 18 Chrysene-d12	240	6.439	6.426	(1.000)	592472	40.0000	
* 23 Perylene-d12	264	7.535	7.527	(1.000)	639506	40.0000	
2 Naphthalene	128	2.444	2.441	(1.004)	102971	4.96781	325.7582
3 2-Methylnaphthalene	141	2.850	2.847	(1.171)	59686	5.37507	352.4639
4 1-Methylnaphthalene	142	2.903	2.900	(1.193)	67515	5.37116	352.2070
5 Acenaphthylene	152	3.378	3.371	(0.975)	124605	5.27399	345.8356
7 Acenaphthene	154	3.480	3.477	(1.005)	63725	4.98335	326.7768
9 Fluorene	166	3.795	3.787	(1.096)	91727	5.70467	374.0764
11 Phenanthrene	178	4.426	4.418	(1.004)	133043	6.54103	428.9199
12 Anthracene	178	4.458	4.455	(1.011)	127667	6.15630	403.6920

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.618	4.610	(1.047)	113359	6.37706	418.1681
15 Fluoranthene	202	5.291	5.283	(1.200)	140632	6.97385	457.3013
16 Pyrene	202	5.462	5.454	(0.848)	140742	6.57762	431.3191
17 Benzo(a)anthracene	228	6.429	6.416	(0.998)	132040	7.46393	489.4381
19 Chrysene	228	6.456	6.448	(1.002)	99941	5.79596	380.0626
20 Benzo(b)fluoranthene	252	7.251	7.244	(0.962)	101448	5.68376	372.7052
21 Benzo(k)fluoranthene	252	7.273	7.265	(0.965)	98644	5.28597	346.6209
22 Benzo(a)pyrene	252	7.487	7.479	(0.994)	83639	4.93462	323.5813
24 Indeno(1,2,3-cd)pyrene	276	8.283	8.275	(1.099)	97903	7.31505	479.6756
25 Dibenzo(a,h)anthracene	278	8.293	8.291	(1.101)	66259	4.95213	324.7301(M)
26 Benzo(g,h,i)perylene	276	8.496	8.494	(1.128)	79320	5.72065	375.1247

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AB14036.D

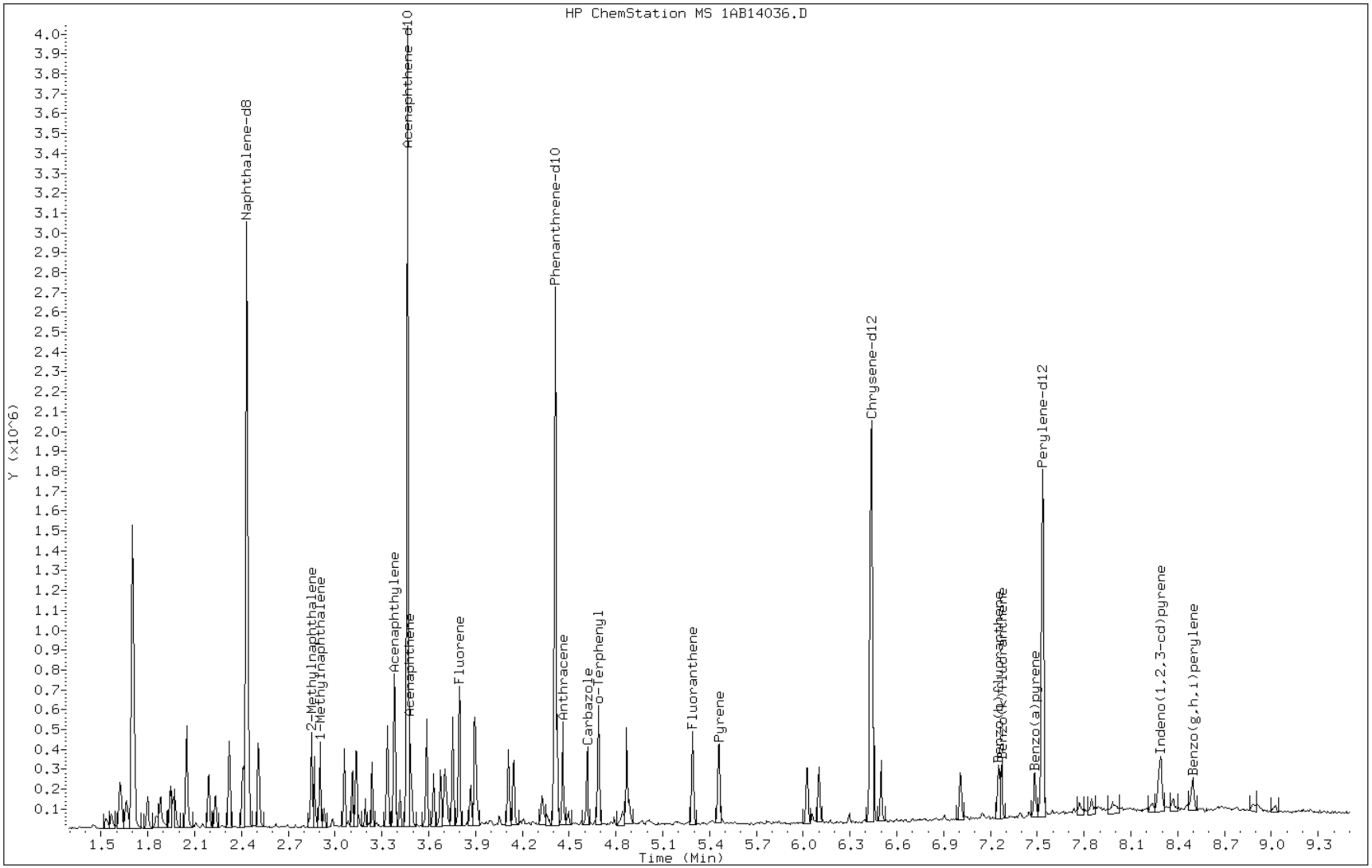
Date: 14-FEB-2013 18:40

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-87218-a-45-b ms

Operator: SCC



Manual Integration Report

Data File: 1AB14036.D
Inj. Date and Time: 14-FEB-2013 18:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/15/2013

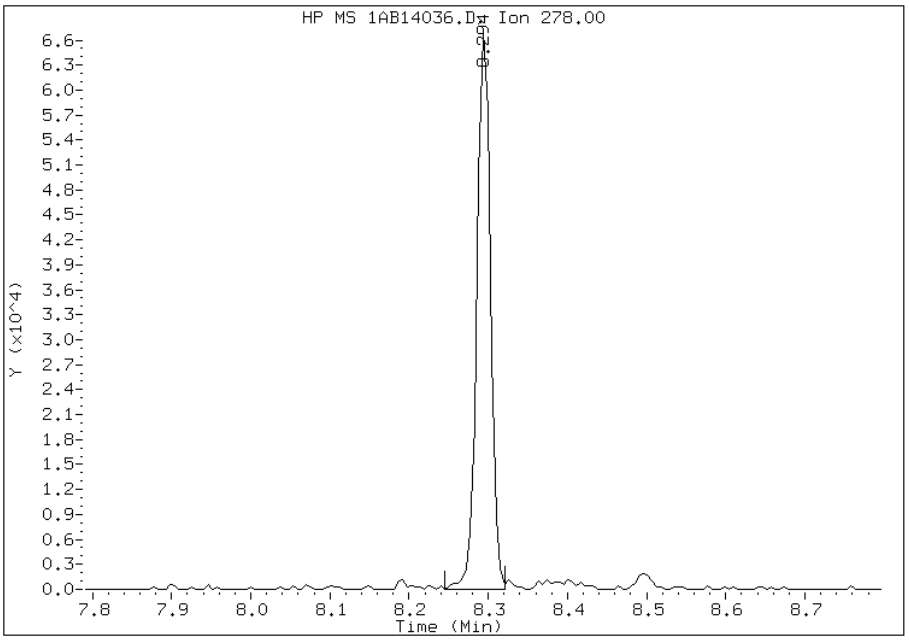
Processing Integration Results

RT: 8.29

Response: 78961

Amount: 6

Conc: 387



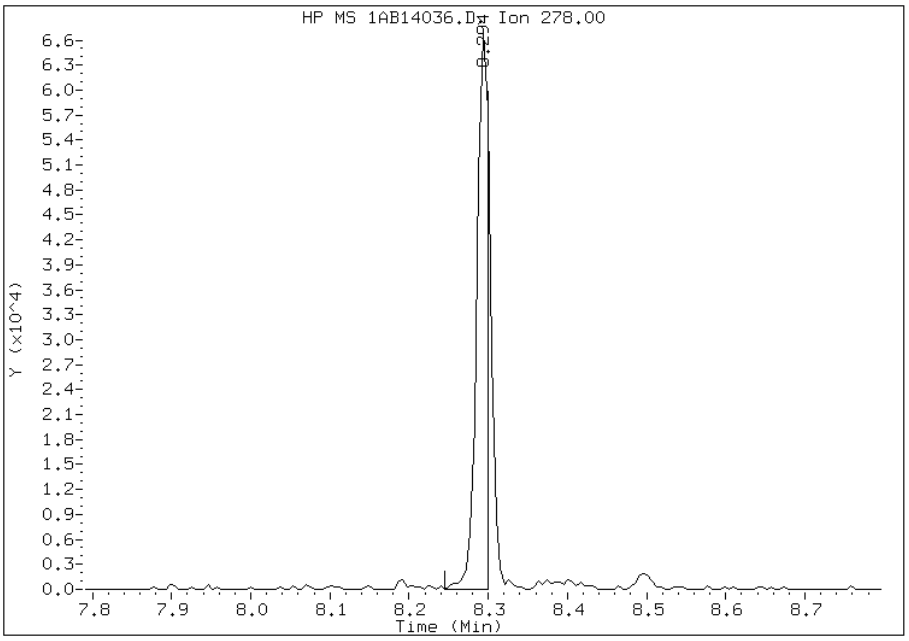
Manual Integration Results

RT: 8.29

Response: 66259

Amount: 5

Conc: 325



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0138B-CS MS | Lab Sample ID: 680-87279-6 MS

Matrix: Solid | Lab File ID: 1AB15011.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:43

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.35(g) | Date Analyzed: 02/15/2013 16:37

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550		100	20
208-96-8	Acenaphthylene	549		41	5.1
120-12-7	Anthracene	572		8.5	4.3
56-55-3	Benzo[a]anthracene	692		8.1	4.0
50-32-8	Benzo[a]pyrene	522		11	5.3
205-99-2	Benzo[b]fluoranthene	572		12	6.2
191-24-2	Benzo[g,h,i]perylene	554		20	4.5
207-08-9	Benzo[k]fluoranthene	618		8.1	3.7
218-01-9	Chrysene	619		9.1	4.6
53-70-3	Dibenz(a,h)anthracene	517		20	4.2
206-44-0	Fluoranthene	680		20	4.1
86-73-7	Fluorene	573		20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	540		20	7.2
90-12-0	1-Methylnaphthalene	613		41	4.5
91-57-6	2-Methylnaphthalene	650		41	7.2
91-20-3	Naphthalene	590		41	4.5
85-01-8	Phenanthrene	589		8.1	4.0
129-00-0	Pyrene	679		20	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15011.D
Lab Smp Id: 680-87279-a-6-b ms
Inj Date : 15-FEB-2013 16:37
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-6-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.350	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.416	2.415	(1.000)	961578	40.0000	
* 6 Acenaphthene-d10	164	3.442	3.441	(1.000)	617160	40.0000	
* 10 Phenanthrene-d10	188	4.382	4.386	(1.000)	924347	40.0000	
$ 14 o-Terphenyl	230	4.665	4.664	(1.065)	122747	9.13891	595.3686
* 18 Chrysene-d12	240	6.402	6.411	(1.000)	676033	40.0000	
* 23 Perylene-d12	264	7.497	7.501	(1.000)	538897	40.0000	
2 Naphthalene	128	2.427	2.426	(1.004)	203445	8.71668	567.8616
3 2-Methylnaphthalene	141	2.828	2.832	(1.170)	120175	9.61125	626.1398
4 1-Methylnaphthalene	142	2.886	2.885	(1.195)	128280	9.06317	590.4344
5 Acenaphthylene	152	3.357	3.355	(0.975)	221068	8.11235	528.4921
7 Acenaphthene	154	3.458	3.462	(1.005)	119857	8.12628	529.3991
9 Fluorene	166	3.768	3.772	(1.095)	156950	8.46274	551.3188
11 Phenanthrene	178	4.398	4.402	(1.004)	219668	8.70365	567.0127
12 Anthracene	178	4.430	4.434	(1.011)	217542	8.45405	550.7526

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.585	4.589	(1.046)	170794	7.74315	504.4399
15 Fluoranthene	202	5.258	5.262	(1.200)	251352	10.0450	654.3989
16 Pyrene	202	5.429	5.433	(0.848)	244783	10.0260	653.1570
17 Benzo(a)anthracene	228	6.396	6.395	(0.999)	206310	10.2207	665.8463
19 Chrysene	228	6.418	6.427	(1.002)	179876	9.14228	595.5882
20 Benzo(b)fluoranthene	252	7.219	7.217	(0.963)	127066	8.44812	550.3661
21 Benzo(k)fluoranthene	252	7.235	7.239	(0.965)	143586	9.13072	594.8351
22 Benzo(a)pyrene	252	7.449	7.452	(0.994)	110210	7.71622	502.6851
24 Indeno(1,2,3-cd)pyrene	276	8.229	8.238	(1.098)	89920	7.97291	519.4075(M)
25 Dibenzo(a,h)anthracene	278	8.245	8.254	(1.100)	86169	7.64254	497.8850
26 Benzo(g,h,i)perylene	276	8.442	8.446	(1.126)	95735	8.19356	533.7821

QC Flag Legend

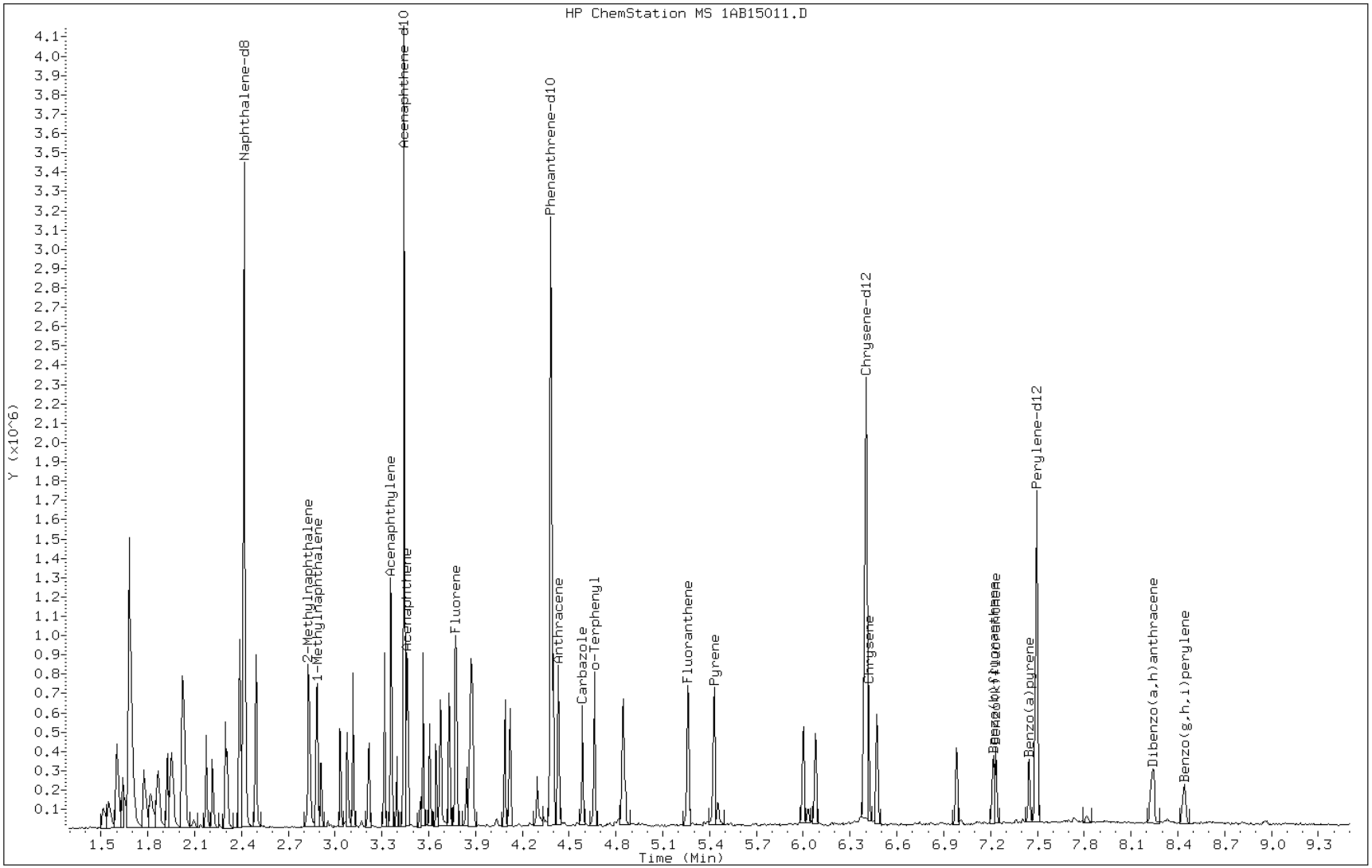
M - Compound response manually integrated.

Data File: 1AB15011.D

Date: 15-FEB-2013 16:37

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-b ms Operator: SCC



Manual Integration Report

Data File: 1AB15011.D
Inj. Date and Time: 15-FEB-2013 16:37
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

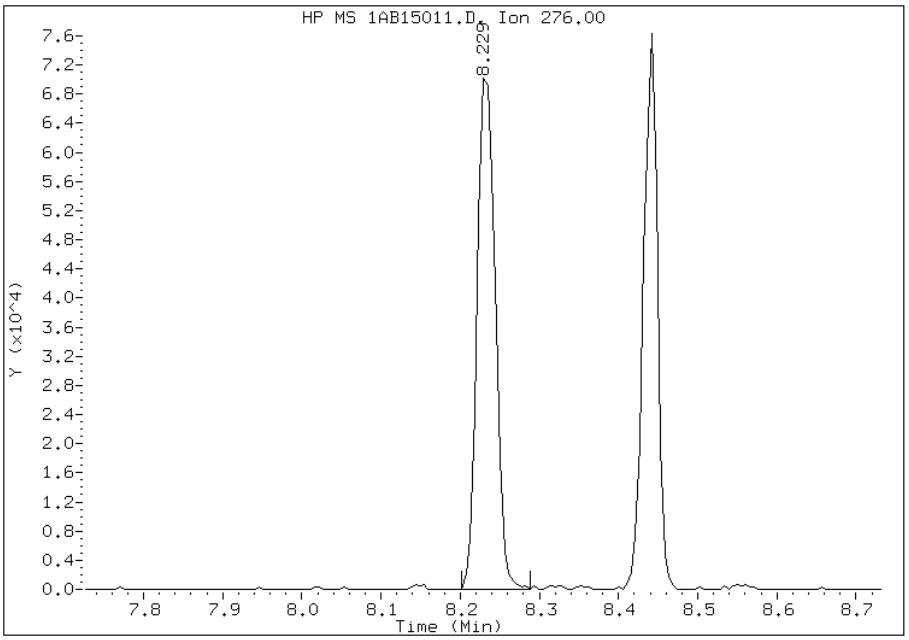
Processing Integration Results

RT: 8.23

Response: 110579

Amount: 10

Conc: 639



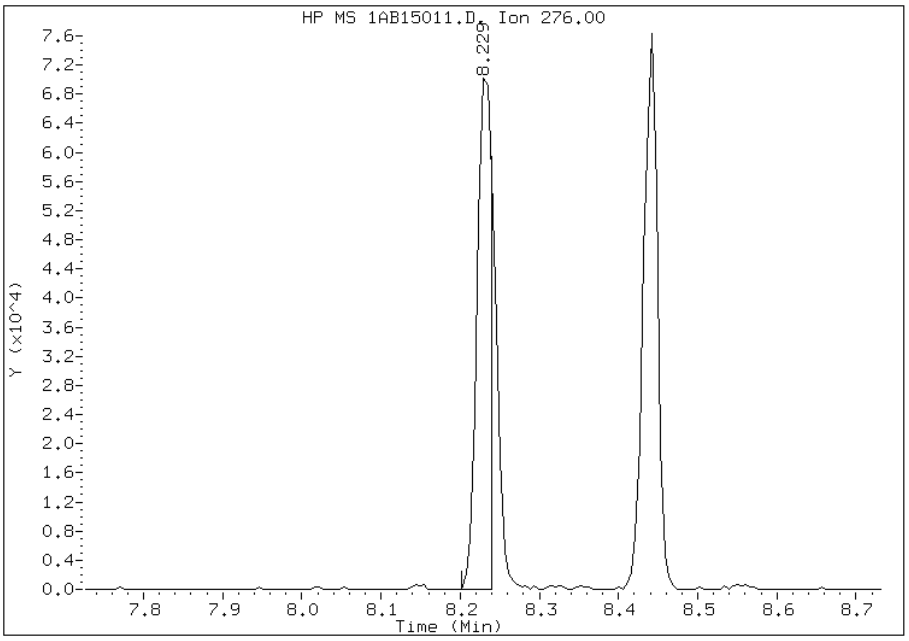
Manual Integration Results

RT: 8.23

Response: 89920

Amount: 8

Conc: 519



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87279-1
SDG No.: 68087279-1
Client Sample ID:
Lab Sample ID: 680-87218-A-45-C MSD
Matrix: Solid
Lab File ID: 1AB14037.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/13/2013 15:28
Sample wt/vol: 15.25(g)
Date Analyzed: 02/14/2013 18:55
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 17.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134523
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	437		120	24
208-96-8	Acenaphthylene	437		47	5.9
120-12-7	Anthracene	480		10	5.0
56-55-3	Benzo[a]anthracene	567		9.5	4.6
50-32-8	Benzo[a]pyrene	388		12	6.2
205-99-2	Benzo[b]fluoranthene	405		14	7.2
191-24-2	Benzo[g,h,i]perylene	456		24	5.2
207-08-9	Benzo[k]fluoranthene	432		9.5	4.3
218-01-9	Chrysene	438		11	5.3
53-70-3	Dibenz(a,h)anthracene	463		24	4.9
206-44-0	Fluoranthene	546		24	4.7
86-73-7	Fluorene	457		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	436		24	8.4
90-12-0	1-Methylnaphthalene	490		47	5.2
91-57-6	2-Methylnaphthalene	498		47	8.4
91-20-3	Naphthalene	433		47	5.2
85-01-8	Phenanthrene	512		9.5	4.6
129-00-0	Pyrene	502		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14037.D
Lab Smp Id: 680-87218-a-45-c ms
Inj Date : 14-FEB-2013 18:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-45-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 37 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.432	2.430	(1.000)	832763	40.0000	
* 6 Acenaphthene-d10	164	3.463	3.461	(1.000)	508146	40.0000	
* 10 Phenanthrene-d10	188	4.409	4.402	(1.000)	705369	40.0000	
$ 14 o-Terphenyl	230	4.687	4.685	(1.063)	71032	6.93037	454.4502
* 18 Chrysene-d12	240	6.439	6.426	(1.000)	576697	40.0000	
* 23 Perylene-d12	264	7.539	7.527	(1.000)	607239	40.0000	
2 Naphthalene	128	2.443	2.441	(1.004)	110767	5.47996	359.3416
3 2-Methylnaphthalene	141	2.849	2.847	(1.171)	68213	6.29935	413.0722
4 1-Methylnaphthalene	142	2.902	2.900	(1.193)	76025	6.20213	406.6968
5 Acenaphthylene	152	3.378	3.371	(0.975)	124126	5.53214	362.7631
7 Acenaphthene	154	3.479	3.477	(1.005)	67208	5.53425	362.9013
9 Fluorene	166	3.794	3.787	(1.096)	88356	5.78622	379.4244
11 Phenanthrene	178	4.425	4.418	(1.004)	124753	6.47745	424.7508
12 Anthracene	178	4.457	4.455	(1.011)	119252	6.07304	398.2321

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.617	4.610	(1.047)	108559	6.44955	422.9216
15 Fluoranthene	202	5.290	5.283	(1.200)	131854	6.90527	452.8044
16 Pyrene	202	5.461	5.454	(0.848)	132236	6.34914	416.3368
17 Benzo(a)anthracene	228	6.428	6.416	(0.998)	123505	7.17244	470.3238
19 Chrysene	228	6.455	6.448	(1.002)	92971	5.53923	363.2278
20 Benzo(b)fluoranthene	252	7.256	7.244	(0.962)	86841	5.12391	335.9942
21 Benzo(k)fluoranthene	252	7.272	7.265	(0.965)	96763	5.46070	358.0786
22 Benzo(a)pyrene	252	7.486	7.479	(0.993)	79033	4.91064	322.0091
24 Indeno(1,2,3-cd)pyrene	276	8.282	8.275	(1.098)	70029	5.51042	361.3387(M)
25 Dibenzo(a,h)anthracene	278	8.293	8.291	(1.100)	74456	5.86047	384.2929
26 Benzo(g,h,i)perylene	276	8.496	8.494	(1.127)	75907	5.76540	378.0591

QC Flag Legend

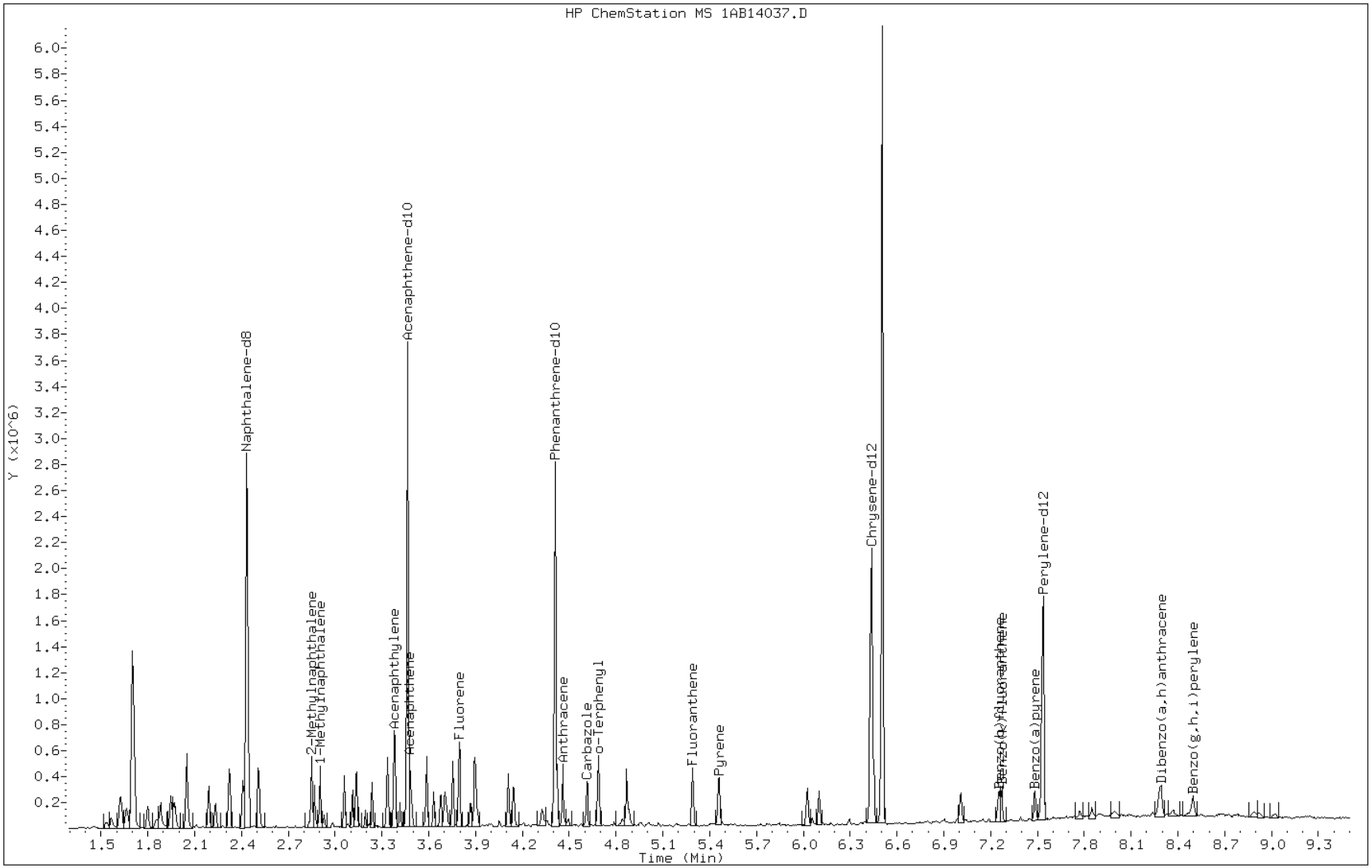
M - Compound response manually integrated.

Data File: 1AB14037.D

Date: 14-FEB-2013 18:55

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87218-a-45-c msd Operator: SCC



Manual Integration Report

Data File: 1AB14037.D
Inj. Date and Time: 14-FEB-2013 18:55
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

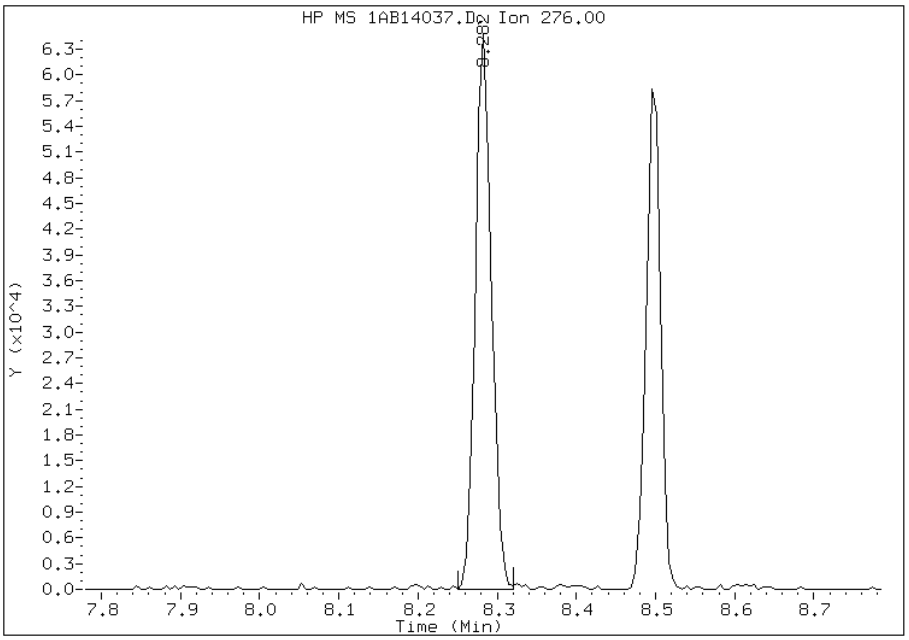
Processing Integration Results

RT: 8.28

Response: 90140

Amount: 7

Conc: 465



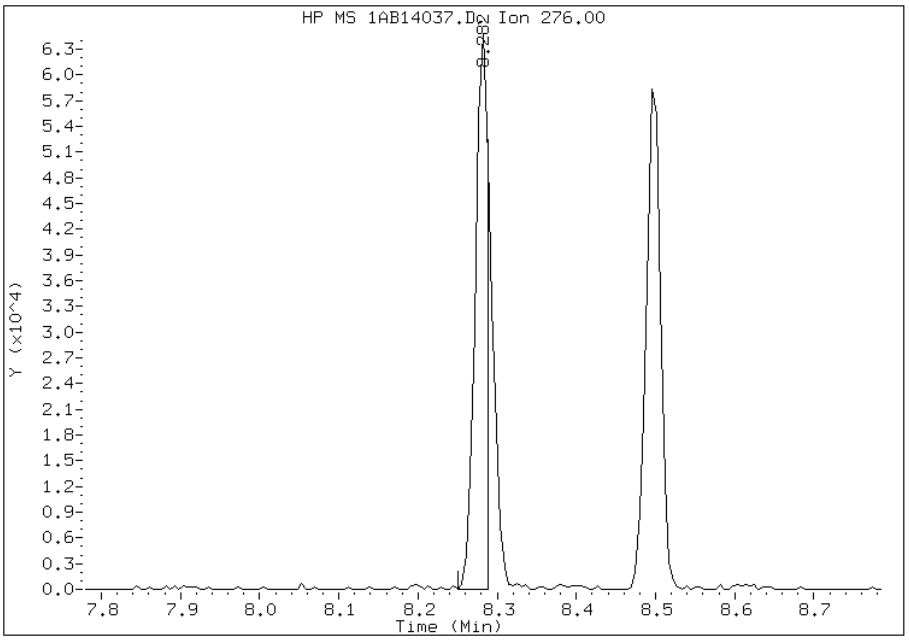
Manual Integration Results

RT: 8.28

Response: 70029

Amount: 6

Conc: 361



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 13:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87279-1

SDG No.: 68087279-1

Client Sample ID: FM0138B-CS MSD | Lab Sample ID: 680-87279-6 MSD

Matrix: Solid | Lab File ID: 1AB15012.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:43

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.35(g) | Date Analyzed: 02/15/2013 16:52

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	486		100	20
208-96-8	Acenaphthylene	491		41	5.1
120-12-7	Anthracene	519		8.5	4.3
56-55-3	Benzo[a]anthracene	590		8.1	4.0
50-32-8	Benzo[a]pyrene	403		11	5.3
205-99-2	Benzo[b]fluoranthene	466		12	6.2
191-24-2	Benzo[g,h,i]perylene	609		20	4.5
207-08-9	Benzo[k]fluoranthene	408		8.1	3.7
218-01-9	Chrysene	505		9.1	4.6
53-70-3	Dibenz(a,h)anthracene	556		20	4.2
206-44-0	Fluoranthene	544		20	4.1
86-73-7	Fluorene	515		20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	585		20	7.2
90-12-0	1-Methylnaphthalene	545		41	4.5
91-57-6	2-Methylnaphthalene	577		41	7.2
91-20-3	Naphthalene	514		41	4.5
85-01-8	Phenanthrene	527		8.1	4.0
129-00-0	Pyrene	548		20	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	84		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15012.D
Lab Smp Id: 680-87279-a-6-c msd
Inj Date : 15-FEB-2013 16:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87279-a-6-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.350	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.417	2.415	(1.000)	869735	40.0000	
* 6 Acenaphthene-d10	164	3.443	3.441	(1.000)	542996	40.0000	
* 10 Phenanthrene-d10	188	4.383	4.386	(1.000)	829645	40.0000	
$ 14 o-Terphenyl	230	4.661	4.664	(1.063)	100784	8.36022	544.6398
* 18 Chrysene-d12	240	6.402	6.411	(1.000)	581691	40.0000	
* 23 Perylene-d12	264	7.503	7.501	(1.000)	708330	40.0000	
2 Naphthalene	128	2.428	2.426	(1.004)	160307	7.59371	494.7041
3 2-Methylnaphthalene	141	2.829	2.832	(1.170)	96453	8.52862	555.6105
4 1-Methylnaphthalene	142	2.887	2.885	(1.194)	103020	8.04712	524.2420
5 Acenaphthylene	152	3.357	3.355	(0.975)	174100	7.26141	473.0559
7 Acenaphthene	154	3.459	3.462	(1.005)	93266	7.18708	468.2138
9 Fluorene	166	3.769	3.772	(1.095)	124073	7.60376	495.3588
11 Phenanthrene	178	4.394	4.402	(1.002)	176499	7.79147	507.5876
12 Anthracene	178	4.431	4.434	(1.011)	177214	7.67295	499.8667

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.586	4.589	(1.046)	146675	7.40874	482.6537
15 Fluoranthene	202	5.259	5.262	(1.200)	180406	8.03271	523.3038
16 Pyrene	202	5.430	5.433	(0.848)	170191	8.10134	527.7746
17 Benzo(a)anthracene	228	6.397	6.395	(0.999)	151436	8.71900	568.0131
19 Chrysene	228	6.418	6.427	(1.002)	126360	7.46391	486.2482
20 Benzo(b)fluoranthene	252	7.220	7.217	(0.962)	136144	6.88651	448.6327
21 Benzo(k)fluoranthene	252	7.236	7.239	(0.964)	124688	6.03237	392.9880
22 Benzo(a)pyrene	252	7.449	7.452	(0.993)	111664	5.94794	387.4880
24 Indeno(1,2,3-cd)pyrene	276	8.240	8.238	(1.098)	128162	8.64549	563.2242(M)
25 Dibenzo(a,h)anthracene	278	8.256	8.254	(1.100)	121811	8.21946	535.4694
26 Benzo(g,h,i)perylene	276	8.454	8.446	(1.127)	138210	8.99935	586.2770

QC Flag Legend

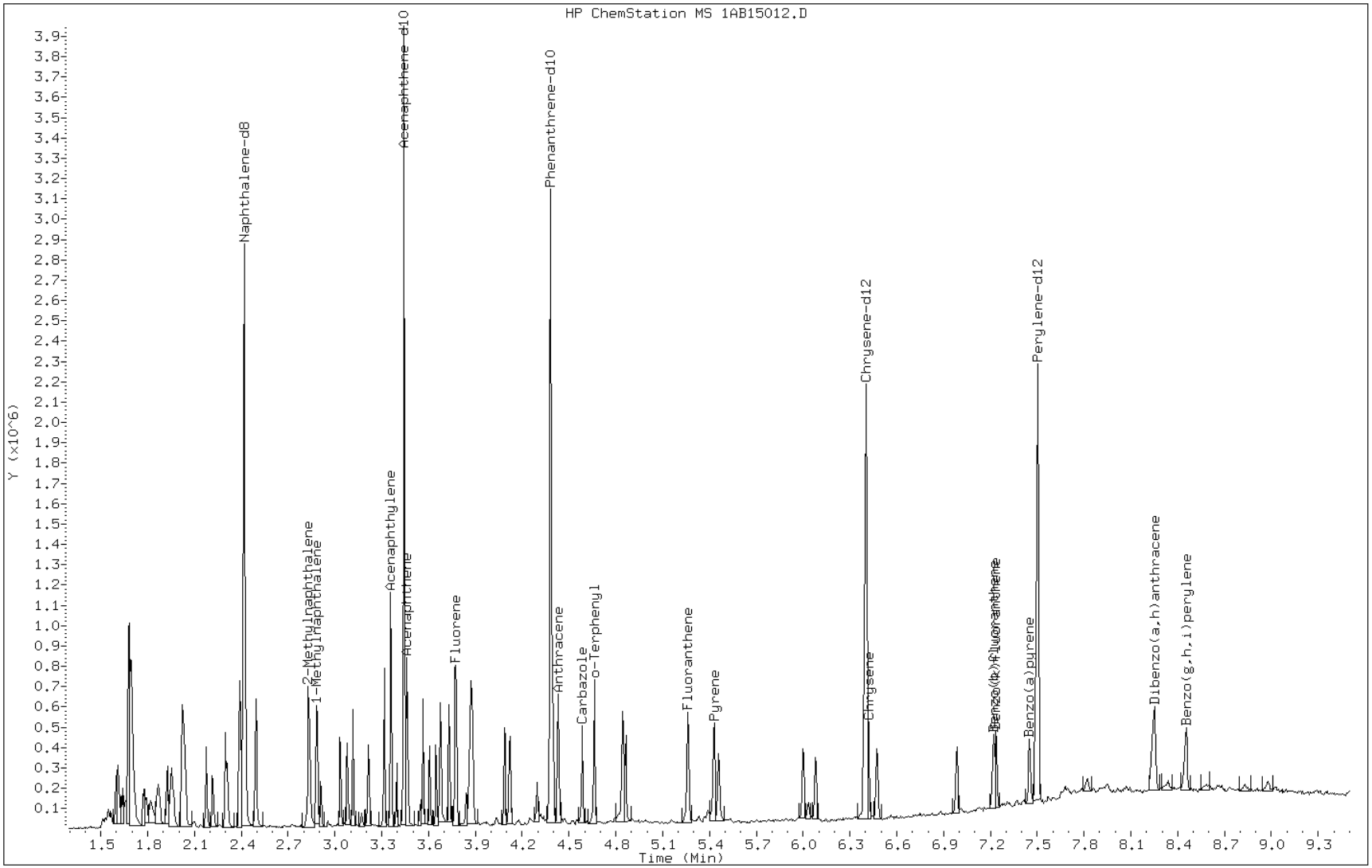
M - Compound response manually integrated.

Data File: 1AB15012.D

Date: 15-FEB-2013 16:52

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87279-a-6-c msd Operator: SCC



Manual Integration Report

Data File: 1AB15012.D
Inj. Date and Time: 15-FEB-2013 16:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

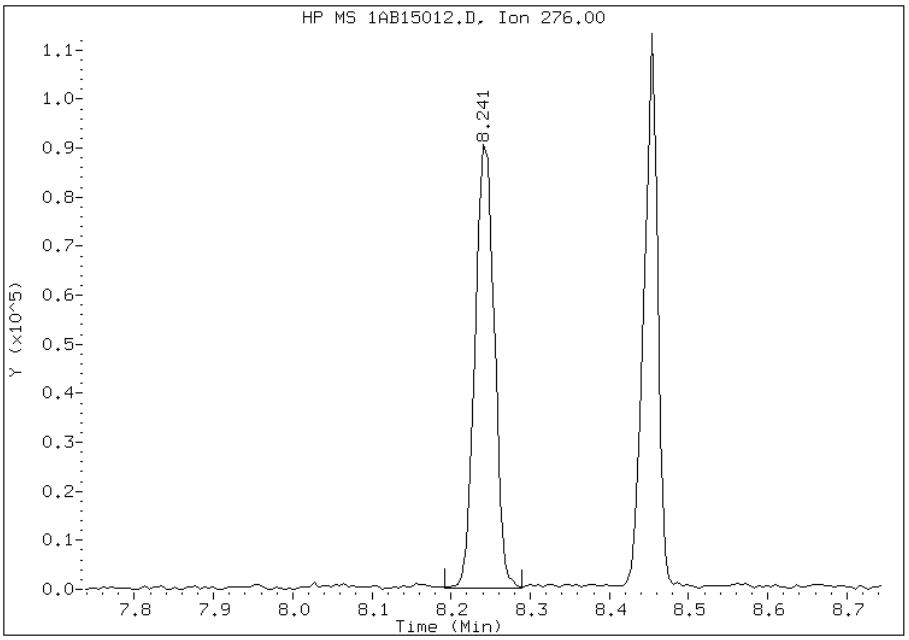
Processing Integration Results

RT: 8.24

Response: 151143

Amount: 10

Conc: 664



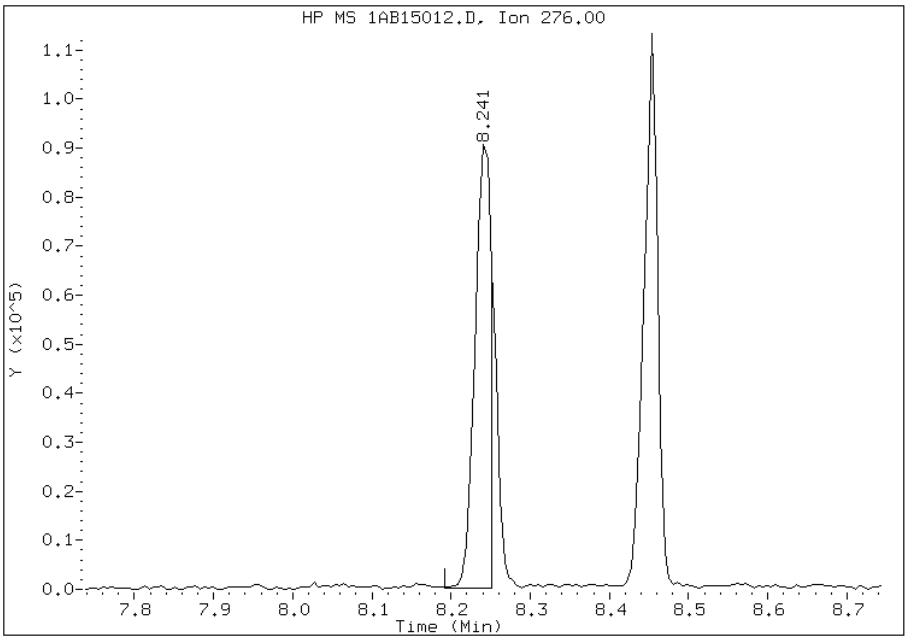
Manual Integration Results

RT: 8.24

Response: 128162

Amount: 9

Conc: 563



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:12
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Start Date: 01/30/2013 10:50

Analysis Batch Number: 133924 End Date: 01/30/2013 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/30/2013 10:50	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 11:05	1		DB-5MS 250(um)
DFTPP 660-133924/2		01/30/2013 11:20	1	1AA30002.D	DB-5MS 250(um)
ICIS 660-133924/3		01/30/2013 11:38	1	1AA30003.D	DB-5MS 250(um)
IC 660-133924/4		01/30/2013 12:04	1	1AA30004.D	DB-5MS 250(um)
IC 660-133924/5		01/30/2013 12:19	1	1AA30005.D	DB-5MS 250(um)
IC 660-133924/6		01/30/2013 12:34	1	1AA30006.D	DB-5MS 250(um)
IC 660-133924/7		01/30/2013 12:49	1	1AA30007.D	DB-5MS 250(um)
IC 660-133924/8		01/30/2013 13:04	1	1AA30008.D	DB-5MS 250(um)
IC 660-133924/9		01/30/2013 13:20	1	1AA30009.D	DB-5MS 250(um)
ICV 660-133924/10		01/30/2013 13:35	1	1AA30010.D	DB-5MS 250(um)
ZZZZZ		01/30/2013 13:52	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:08	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:23	20		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:54	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:09	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:24	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:54	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:25	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:40	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:55	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:10	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:25	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:11	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:26	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:41	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:56	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:11	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:26	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:42	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:57	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:12	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:27	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:42	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:57	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:12	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:28	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:43	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:58	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:13	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Start Date: 01/30/2013 10:50

Analysis Batch Number: 133924 End Date: 01/30/2013 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/30/2013 22:28	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:43	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:58	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Start Date: 02/14/2013 09:27

Analysis Batch Number: 134523 End Date: 02/14/2013 21:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/14/2013 09:27	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 09:42	1		DB-5MS 250(um)
DFTPP 660-134523/2		02/14/2013 09:58	1	1AB14002.D	DB-5MS 250(um)
CCVIS 660-134523/3		02/14/2013 10:21	1	1AB14003.D	DB-5MS 250(um)
ZZZZZ		02/14/2013 10:36	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 10:51	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 11:07	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 11:22	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 11:37	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 11:52	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 12:07	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 12:22	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 12:38	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 12:53	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 13:08	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 13:23	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 13:38	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 13:53	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 14:08	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 14:23	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 14:38	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 14:53	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 15:08	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 15:24	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 15:54	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 16:24	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 16:39	1		DB-5MS 250(um)
MB 660-134445/1-A		02/14/2013 16:54	1	1AB14029.D	DB-5MS 250(um)
LCS 660-134445/2-A		02/14/2013 17:10	1	1AB14030.D	DB-5MS 250(um)
ZZZZZ		02/14/2013 17:25	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 18:10	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 18:25	1		DB-5MS 250(um)
680-87218-A-45-B MS		02/14/2013 18:40	1	1AB14036.D	DB-5MS 250(um)
680-87218-A-45-C MSD		02/14/2013 18:55	1	1AB14037.D	DB-5MS 250(um)
680-87279-1	FM0018B-CS	02/14/2013 19:10	1	1AB14038.D	DB-5MS 250(um)
680-87279-2	FM0018C-CS	02/14/2013 19:25	4	1AB14039.D	DB-5MS 250(um)
680-87279-3	FM0034B-CS	02/14/2013 19:41	1	1AB14040.D	DB-5MS 250(um)
680-87279-4	FM0123B-CS	02/14/2013 19:56	1	1AB14041.D	DB-5MS 250(um)
680-87279-5	FM0138A-CS	02/14/2013 20:11	1	1AB14042.D	DB-5MS 250(um)
680-87279-7	FM0139A-CS	02/14/2013 20:26	4	1AB14043.D	DB-5MS 250(um)
680-87279-8	FM0139B-CS	02/14/2013 20:41	1	1AB14044.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Start Date: 02/14/2013 09:27

Analysis Batch Number: 134523 End Date: 02/14/2013 21:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
680-87279-9	FM0139C-CS	02/14/2013 20:56	1	1AB14045.D	DB-5MS 250(um)
680-87279-10	FM0153A-CS	02/14/2013 21:11	1	1AB14046.D	DB-5MS 250(um)
680-87279-11	CV0748X-CS	02/14/2013 21:26	4	1AB14047.D	DB-5MS 250(um)
680-87279-12	CV0748Z-CS	02/14/2013 21:42	4	1AB14048.D	DB-5MS 250(um)
680-87279-14	CV0748FF-CS	02/14/2013 21:57	1	1AB14049.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Start Date: 02/15/2013 11:37

Analysis Batch Number: 134532 End Date: 02/16/2013 02:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/15/2013 11:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 11:52	1		DB-5MS 250(um)
DFTPP 660-134532/2		02/15/2013 12:07	1		DB-5MS 250(um)
CCV 660-134532/3		02/15/2013 12:36	1		DB-5MS 250(um)
CCV 660-134532/5		02/15/2013 12:36	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 14:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 14:53	1		DB-5MS 250(um)
DFTPP 660-134532/7		02/15/2013 15:08	1	1AB15005.D	DB-5MS 250(um)
CCVIS 660-134532/8		02/15/2013 15:21	1	1AB15006.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 15:37	1		DB-5MS 250(um)
MB 660-134455/1-A		02/15/2013 15:52	1	1AB15008.D	DB-5MS 250(um)
LCS 660-134455/2-A		02/15/2013 16:07	1	1AB15009.D	DB-5MS 250(um)
680-87279-6	FM0138B-CS	02/15/2013 16:22	1	1AB15010.D	DB-5MS 250(um)
680-87279-6 MS	FM0138B-CS MS	02/15/2013 16:37	1	1AB15011.D	DB-5MS 250(um)
680-87279-6 MSD	FM0138B-CS MSD	02/15/2013 16:52	1	1AB15012.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 17:07	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:22	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:37	1		DB-5MS 250(um)
680-87279-20	CV0748PP-CS	02/15/2013 17:52	1	1AB15016.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 18:07	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:23	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:38	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:53	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:08	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:23	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:38	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:53	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:09	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:24	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:39	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:54	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:09	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:24	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:40	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:55	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 22:10	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 22:25	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 22:40	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 22:55	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 23:10	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 23:25	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 23:40	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 23:56	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 00:11	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 00:26	4		DB-5MS 250(um)

8270C LL

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMA5973 Start Date: 02/15/2013 11:37

Analysis Batch Number: 134532 End Date: 02/16/2013 02:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/16/2013 00:41	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 00:56	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 01:11	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 01:26	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 01:41	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 01:57	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 02:12	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 02:27	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 02:42	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMC5973 Start Date: 01/07/2013 10:42

Analysis Batch Number: 133227 End Date: 01/07/2013 17:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/07/2013 10:42	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 11:03	1		DB-5MS 250(um)
DFTPP 660-133227/1		01/07/2013 11:23	1	1CA07002.D	DB-5MS 250(um)
IC 660-133227/13		01/07/2013 11:50	1		DB-5MS 250(um)
IC 660-133227/14		01/07/2013 12:11	1		DB-5MS 250(um)
IC 660-133227/15		01/07/2013 12:32	1		DB-5MS 250(um)
IC 660-133227/16		01/07/2013 12:52	1		DB-5MS 250(um)
ICIS 660-133227/17		01/07/2013 13:13	1		DB-5MS 250(um)
IC 660-133227/18		01/07/2013 13:34	1		DB-5MS 250(um)
IC 660-133227/19		01/07/2013 14:03	1		DB-5MS 250(um)
IC 660-133227/20		01/07/2013 14:24	1		DB-5MS 250(um)
ICV 660-133227/21		01/07/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 15:04	1		DB-5MS 250(um)
IC 660-133227/3		01/07/2013 15:23	1	1CA07013.D	DB-5MS 250(um)
IC 660-133227/4		01/07/2013 15:41	1	1CA07014.D	DB-5MS 250(um)
IC 660-133227/5		01/07/2013 15:59	1	1CA07015.D	DB-5MS 250(um)
IC 660-133227/6		01/07/2013 16:18	1	1CA07016.D	DB-5MS 250(um)
ICIS 660-133227/7		01/07/2013 16:36	1	1CA07017.D	DB-5MS 250(um)
IC 660-133227/8		01/07/2013 16:54	1	1CA07018.D	DB-5MS 250(um)
IC 660-133227/9		01/07/2013 17:13	1	1CA07019.D	DB-5MS 250(um)
ICV 660-133227/10		01/07/2013 17:31	1	1CA07020.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMC5973 Start Date: 02/14/2013 13:57

Analysis Batch Number: 134493 End Date: 02/14/2013 18:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/14/2013 13:57	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 14:15	1		DB-5MS 250(um)
DFTPP 660-134493/2		02/14/2013 14:34	1	1CB14002.D	DB-5MS 250(um)
CCVIS 660-134493/3		02/14/2013 14:56	1	1CB14003.D	DB-5MS 250(um)
ZZZZZ		02/14/2013 15:17	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 15:35	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 15:53	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 16:12	4		DB-5MS 250(um)
ZZZZZ		02/14/2013 16:31	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 16:49	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 17:07	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 17:26	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 17:44	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 18:02	4		DB-5MS 250(um)
ZZZZZ		02/14/2013 18:21	4		DB-5MS 250(um)
680-87279-15	CV0748GG-CS	02/14/2013 18:39	4	1CB14015.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMC5973 Start Date: 02/15/2013 10:47

Analysis Batch Number: 134530 End Date: 02/15/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/15/2013 10:47	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 11:05	1		DB-5MS 250(um)
DFTPP 660-134530/2		02/15/2013 11:23	1		DB-5MS 250(um)
DFTPP 660-134530/3		02/15/2013 11:40	1	1CB15003.D	DB-5MS 250(um)
CCVIS 660-134530/4		02/15/2013 11:56	1	1CB15004.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 12:25	1		DB-5MS 250(um)
680-87279-16	CV0748HH-CS	02/15/2013 12:43	4	1CB15006.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 13:01	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 13:20	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 13:38	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 13:56	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 14:14	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 14:33	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 14:51	1		DB-5MS 250(um)
680-87279-7 DL	FM0139A-CS DL	02/15/2013 15:09	40	1CB15014.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 15:28	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 15:46	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:04	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:23	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:41	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:00	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:36	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:13	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:31	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:50	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:08	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:26	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:45	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:03	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:21	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:39	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:58	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:16	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:34	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:53	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: BSMC5973 Start Date: 02/18/2013 13:14

Analysis Batch Number: 134598 End Date: 02/18/2013 17:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/18/2013 13:14	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 13:32	1		DB-5MS 250(um)
DFTPP 660-134598/2		02/18/2013 13:50	1	1CB18002.D	DB-5MS 250(um)
CCVIS 660-134598/3		02/18/2013 14:07	1	1CB18003.D	DB-5MS 250(um)
ZZZZZ		02/18/2013 14:28	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 14:47	4		DB-5MS 250(um)
ZZZZZ		02/18/2013 15:05	4		DB-5MS 250(um)
ZZZZZ		02/18/2013 15:23	1		DB-5MS 250(um)
680-87279-17	CV0748KK-CS	02/18/2013 15:41	1	1CB18008.D	DB-5MS 250(um)
680-87279-18	CV0748LL-CS	02/18/2013 16:00	1	1CB18009.D	DB-5MS 250(um)
680-87279-19	CV0748MM-CS	02/18/2013 16:18	1	1CB18010.D	DB-5MS 250(um)
ZZZZZ		02/18/2013 16:36	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 17:13	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 17:31	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 17:49	4		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Batch Number: 134445 Batch Start Date: 02/13/13 15:28 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/14/13 10:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
MB 660-134445/1		3546, 8270C LL		14.99 g	1 mL		1 mL		
LCS 660-134445/2		3546, 8270C LL		15.30 g	1 mL	1 mL	1 mL		
680-87218-A-45 MS		3546, 8270C LL	T	15.25 g	1 mL	1 mL	1 mL		
680-87218-A-45 MSD		3546, 8270C LL	T	15.25 g	1 mL	1 mL	1 mL		
680-87279-A-1	FM0018B-CS	3546, 8270C LL	T	15.29 g	1 mL		1 mL		
680-87279-A-2	FM0018C-CS	3546, 8270C LL	T	15.47 g	1 mL		1 mL		
680-87279-A-3	FM0034B-CS	3546, 8270C LL	T	15.21 g	1 mL		1 mL		
680-87279-A-4	FM0123B-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-87279-A-5	FM0138A-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-87279-A-7	FM0139A-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-87279-A-8	FM0139B-CS	3546, 8270C LL	T	15.31 g	1 mL		1 mL		
680-87279-A-9	FM0139C-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-87279-A-10	FM0153A-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-87279-A-11	CV0748X-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-87279-A-12	CV0748Z-CS	3546, 8270C LL	T	15.40 g	1 mL		1 mL		
680-87279-A-14	CV0748FF-CS	3546, 8270C LL	T	15.16 g	1 mL		1 mL		
680-87279-A-15	CV0748GG-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-87279-A-16	CV0748HH-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Batch Number: 134445 Batch Start Date: 02/13/13 15:28 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/14/13 10:20

Batch Notes	
Acetone Lot #	EX ACETON BOT _50
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Final Concentrator Volume	1 ML mL
MeCl2/Acetone Lot #	DCM/ACETON _15
Microwave Start Time	17.45/2/13/13
Microwave Stop Time	18..20/2/13/13
Na2SO4 Lot Number	ex-na2s04a_62
Ottawa Sand Lot #	OTTAW SAND_10
Person's name who did the prep	SAUREL
SOP Number	EX TP 014
Person who witnessed spiking	AG
Surrogate Lot Number	EX LLSURINT _174
Water Bath ID	TURBOVAP2#1/2/3/4
Water Bath Temperature	40 C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Batch Number: 134455 Batch Start Date: 02/14/13 08:35 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/14/13 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
MB 660-134455/1		3546, 8270C LL		15.15 g	1 mL		1 mL		
LCS 660-134455/2		3546, 8270C LL		15.14 g	1 mL	1 mL	1 mL		
680-87279-A-6	FM0138B-CS	3546, 8270C LL	T	15.35 g	1 mL		1 mL		
680-87279-A-6 MS	FM0138B-CS	3546, 8270C LL	T	15.35 g	1 mL	1 mL	1 mL		
680-87279-A-6 MSD	FM0138B-CS	3546, 8270C LL	T	15.35 g	1 mL	1 mL	1 mL		
680-87279-A-17	CV0748KK-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-87279-A-18	CV0748LL-CS	3546, 8270C LL	T	15.45 g	1 mL		1 mL		
680-87279-A-19	CV0748MM-CS	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-87279-A-20	CV0748PP-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Batch Number: 134455 Batch Start Date: 02/14/13 08:35 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/14/13 13:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT_50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_52
MeCl2/Acetone Lot #	EX-DCM/ACETON_16
Microwave Start Time	10:50 2/14/13
Microwave Stop Time	11:25 2/14/13
Na2SO4 Lot Number	EX-NA2S04A_62
Ottawa Sand Lot #	EX-OTTOWA SAND_10
Person's name who did the prep	SAUREL
SOP Number	TP-014
Person who witnessed spiking	AG
Surrogate Lot Number	EX-LLSURINT_174
TBA Lot #	N/.A
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87279-1

SDG No.: 68087279-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0018B-CS	680-87279-1
FM0018C-CS	680-87279-2
FM0034B-CS	680-87279-3
FM0123B-CS	680-87279-4
FM0138A-CS	680-87279-5
FM0138B-CS	680-87279-6
FM0139A-CS	680-87279-7
FM0139B-CS	680-87279-8
FM0139C-CS	680-87279-9
FM0153A-CS	680-87279-10
CV0748X-CS	680-87279-11
CV0748Z-CS	680-87279-12
CV0748FF-CS	680-87279-14
CV0748GG-CS	680-87279-15
CV0748HH-CS	680-87279-16
CV0748KK-CS	680-87279-17
CV0748LL-CS	680-87279-18
CV0748MM-CS	680-87279-19
CV0748PP-CS	680-87279-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87279-1

SDG Number: 68087279-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87279-1

SDG Number: 68087279-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/11/2013 12:26 End Date: 02/11/2013 12:26

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134336/1	1	T	12:26	X																			
680-87279-1	1	T	12:26	X																			
680-87279-2	1	T	12:26	X																			
680-87279-3	1	T	12:26	X																			
680-87279-4	1	T	12:26	X																			
680-87279-5	1	T	12:26	X																			
680-87279-6	1	T	12:26	X																			
680-87279-A-6 MS	1	T	12:26	X																			
680-87279-6 MSD	1	T	12:26	X																			
680-87279-7	1	T	12:26	X																			
680-87279-8	1	T	12:26	X																			
680-87279-9	1	T	12:26	X																			
680-87279-10	1	T	12:26	X																			
680-87279-11	1	T	12:26	X																			
680-87279-12	1	T	12:26	X																			
680-87279-14	1	T	12:26	X																			
680-87279-15	1	T	12:26	X																			
680-87279-16	1	T	12:26	X																			
680-87279-17	1	T	12:26	X																			
680-87279-18	1	T	12:26	X																			
680-87279-19	1	T	12:26	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/11/2013 13:02 End Date: 02/11/2013 13:16

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134338/1	1	T	13:02	X																			
680-87279-20	1	T	13:02	X																			
ZZZZZZ			13:02																				
680-87279-A-21 MS	1	T	13:02	X																			
680-87279-A-21 MSD	1	T	13:02	X																			
ZZZZZZ			13:02																				
ZZZZZZ			13:02																				
ZZZZZZ			13:02																				
ZZZZZZ			13:02																				
ZZZZZZ			13:02																				
ZZZZZZ			13:02																				
ZZZZZZ			13:16																				
ZZZZZZ			13:16																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Batch Number: 134336 Batch Start Date: 02/11/13 12:26 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
LCS 660-134336/1		Moisture		1	0 g	9.14 g	9.18 g		
680-87279-A-1	FM0018B-CS	Moisture	T	2	0 g	4.72 g	3.71 g		
680-87279-A-2	FM0018C-CS	Moisture	T	3	0 g	4.36 g	3.50 g		
680-87279-A-3	FM0034B-CS	Moisture	T	4	0 g	4.56 g	4.35 g		
680-87279-A-4	FM0123B-CS	Moisture	T	5	0 g	6.65 g	4.94 g		
680-87279-A-5	FM0138A-CS	Moisture	T	6	0 g	4.83 g	4.14 g		
680-87279-A-6	FM0138B-CS	Moisture	T	7	0 g	4.55 g	4.38 g		
680-87279-A-6 MS		Moisture	T	8	0 g	4.07 g	3.93 g		
680-87279-A-6 MSD	FM0138B-CS	Moisture	T	9	0 g	5.94 g	5.18 g		
680-87279-A-7	FM0139A-CS	Moisture	T	10	0 g	4.32 g	4.19 g		
680-87279-A-8	FM0139B-CS	Moisture	T	11	0 g	4.25 g	3.75 g		
680-87279-A-9	FM0139C-CS	Moisture	T	12	0 g	4.47 g	4.19 g		
680-87279-A-10	FM0153A-CS	Moisture	T	13	0 g	5.00 g	4.59 g		
680-87279-A-11	CV0748X-CS	Moisture	T	14	0 g	4.61 g	4.11 g		
680-87279-A-12	CV0748Z-CS	Moisture	T	15	0 g	4.13 g	3.57 g		
680-87279-A-14	CV0748FF-CS	Moisture	T	16	0 g	4.57 g	4.38 g		
680-87279-A-15	CV0748GG-CS	Moisture	T	17	0 g	4.46 g	4.43 g		
680-87279-A-16	CV0748HH-CS	Moisture	T	18	0 g	4.87 g	4.50 g		
680-87279-A-17	CV0748KK-CS	Moisture	T	19	0 g	4.57 g	4.47 g		
680-87279-A-18	CV0748LL-CS	Moisture	T	20	0 g	4.72 g	4.37 g		
680-87279-A-19	CV0748MM-CS	Moisture	T	21	0 g	4.67 g	3.84 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.11.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87279-1

SDG No.: 68087279-1

Batch Number: 134338 Batch Start Date: 02/11/13 13:02 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
LCS 660-134338/1		Moisture		22	0 g	9.13 g	9.18 g		
680-87279-A-20	CV0748PP-CS	Moisture	T	23	0 g	4.45 g	4.28 g		
680-87279-A-21 MS		Moisture	T	25	0 g	4.48 g	4.08 g		
680-87279-A-21 MSD		Moisture	T	26	0 g	4.27 g	3.95 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.11.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59515

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL
TAL (LAB) PROJECT MANAGER: Lisa Haney	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678 355-5550	CLIENT FAX
CLIENT NAME: OTIE	CLIENT E-MAIL: Lkrebs@otie.com	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 6

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LUPAH, RCRA 8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LUPAH	RCRA 8									REMARKS
2/6/13	0905	FM0018A-CS	C		✓			X										
	0855	FM0018B-CS	C		✓			X										
	0859	FM0018C-CS	C		✓			X										
	1020	FM0034A-CS	C		✓			X										
	1024	FM0034B-CS	C		✓			X										
	0834	FM0123A-CS	C		✓			X										
	0837	FM0123B-CS	C		✓			X										
	0840	FM0123A-CSD	C		✓			X										
	1040	FM0138A-CS	C		✓			X										
	1043	FM0138B-CS	C		✓			X	X									
	1045	FM0138C-CS	C		✓			X										
	1124	FM0139A-CS	C		✓			X	X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/7/13	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/08/13	0916	YES ○ NO ○		S7279	4.8°

TAL8240-680 (1008)

02/20/2013

Serial Number 59516

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE 2 OF 6
35th Ave Removal	2005148-1356	AL	
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 6788555550	CLIENT FAX	
CLIENT NAME: OTIE	CLIENT E-MAIL: Lwebs@otie.com		
CLIENT ADDRESS			
COMPANY CONTRACTING THIS WORK (if applicable)			

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE: LLPAH, RCRA 8

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH	RCRA 8	REMARKS
2/6/13	1130	FM0139B-CS	C		✓			X		
	1135	FM0139C-CS	C		✓			X		
	1002	FM0153A-CS	C		✓			X		
	0958	FM0153B-CS.	C		✓			X		
	0851	CU0748W-CS	C		✓			X		
	0854	CU0748X-CS	C		✓			X		
	0906	CU0748Y-CS	C		✓			X		
	0909	CU0748Z-CS	C		✓			X		
	0929	CU0748AA-CS	C		✓			X		
	0924	CU0748BB-CS	C		✓			X		
	0937	CU0748CC-CS	C		✓			X		
	0939	CU0748DD-CS	C		✓			X	X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/11/13	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/08/13	0916	YES ○ NO ○		87279	4.8°C

TAL8240-680 (1008)

Serial Number 59517

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 3 OF 6
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM: A. Henderson	CLIENT PHONE: 6783555550	CLIENT FAX	DATE DUE
CLIENT NAME: ONE	CLIENT E-MAIL: LHebs@one.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE): AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: LL9A

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
2/6/13	0945	CU0748EE-CS	C		✓			X	
	0949	CU0748FF-CS	C		✓			X	
	0952	CU0748GG-CS	C		✓			X	
	1010	CU0748HH-CS	C		✓			X	
	1011	CU0748II-CS	C		✓			X	
	1032	CU0748JJ-CS	C		✓			X	
	1041	CU0748KK-CS	C		✓			X	
	1048	CU0748LL-CS	C		✓			X	
	1050	CU0748MM-CS	C		✓			X	
	1106	CU0748NN-CS	C		✓			X	
	1108	CU0748OO-CS	C		✓			X	
	1110	CU0748PP-CS	C		✓			X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/7/13	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/08/13	0916	YES ○ NO ○		87279	4-8°

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87279-1
SDG Number: 68087279-1

Login Number: 87279
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	Missing cooler.
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87279-1
SDG Number: 68087279-1

Login Number: 87279
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 02/11/13 10:10 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87279-1
SDG Number: 68087279-1

Login Number: 87279
List Number: 2
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 02/12/13 03:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	