ANALYTICAL REPORT

Job Number: 680-87496-4

SDG Number: 68087496-4

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
3/1/2013 8:33 AM

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Project Manager II
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03/01/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87496-4

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 02/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.2º C and 5.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0160K-CS (680-87496-61), FM0160K-CSD (680-87496-62), FM0160L-CS (680-87496-63), FM0161A-CS (680-87496-64), FM0161B-CS (680-87496-65), FM0161C-CS (680-87496-66), FM0161D-CS (680-87496-67), FM0161AB-GS (680-87496-68), FM0161AC-GS (680-87496-69), Unamed Tributary Bank-A (680-87496-70), Unamed Tributary Grab-A (680-87496-71), Unamed Tributary SD-A (680-87496-72), Unamed Tributary Bank-B (680-87496-73), Unamed Tributary Grab-B (680-87496-74), Unamed Tributary SD-B (680-87496-75) and Unamed Tributary SD-C (680-87496-76) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/20/2013 and 02/21/2013 and analyzed on 02/22/2013 and 02/26/2013.

Sample FM0161C-CS (680-87496-66)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria low for the MS of sample FM0160K-CS (680-87496-61) in batch 660-134771.

Benzo[b]fluoranthene, Benzo[k]fluoranthene, Fluoranthene and Pyrene recovered outside the recovery criteria high for the MS of sample 680-87496-48 in batch 660-134722.

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: 680-87496-4
Sdg Number: 68087496-4

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87496-61	FM0160K-CS	Solid	02/13/2013 1609	02/15/2013 0942
680-87496-61MS	FM0160K-CS	Solid	02/13/2013 1609	02/15/2013 0942
680-87496-61MSD	FM0160K-CS	Solid	02/13/2013 1609	02/15/2013 0942
680-87496-62	FM0160K-CSD	Solid	02/13/2013 1611	02/15/2013 0942
680-87496-63	FM0160L-CS	Solid	02/13/2013 1615	02/15/2013 0942
680-87496-64	FM0161A-CS	Solid	02/13/2013 1630	02/15/2013 0942
680-87496-65	FM0161B-CS	Solid	02/13/2013 1638	02/15/2013 0942
680-87496-66	FM0161C-CS	Solid	02/13/2013 1645	02/15/2013 0942
680-87496-67	FM0161D-CS	Solid	02/13/2013 1650	02/15/2013 0942
680-87496-68	FM0161AB-GS	Solid	02/13/2013 1635	02/15/2013 0942
680-87496-69	FM0161AC-GS	Solid	02/13/2013 1645	02/15/2013 0942
680-87496-70	Unamed Tributary Bank-A	Solid	02/13/2013 1435	02/15/2013 0942
680-87496-71	Unamed Tributary Grab-A	Solid	02/13/2013 1340	02/15/2013 0942
680-87496-72	Unamed Tributary SD-A	Solid	02/13/2013 1430	02/15/2013 0942
680-87496-73	Unamed Tributary Bank-B	Solid	02/13/2013 1340	02/15/2013 0942
680-87496-74	Unamed Tributary Grab-B	Solid	02/13/2013 1350	02/15/2013 0942
680-87496-75	Unamed Tributary SD-B	Solid	02/13/2013 1400	02/15/2013 0942
680-87496-76	Unamed Tributary SD-C	Solid	02/13/2013 1330	02/15/2013 0942

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-4
Sdg Number: 68087496-4

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: 680-87496-4
Sdg Number: 68087496-4

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-4
Sdg Number: 68087496-4

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.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-4
Sdg Number: 68087496-4

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134677					
LCS 660-134677/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134677/1-A	Method Blank	T	Solid	3546	
680-87496-A-48-B MS	Matrix Spike	T	Solid	3546	
680-87496-A-48-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87496-62	FM0160K-CSD	T	Solid	3546	
680-87496-63	FM0160L-CS	T	Solid	3546	
680-87496-64	FM0161A-CS	T	Solid	3546	
680-87496-65	FM0161B-CS	T	Solid	3546	
Prep Batch: 660-134699					
LCS 660-134699/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134699/1-A	Method Blank	T	Solid	3546	
680-87496-61	FM0160K-CS	T	Solid	3546	
680-87496-61MS	Matrix Spike	T	Solid	3546	
680-87496-61MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87496-66	FM0161C-CS	T	Solid	3546	
680-87496-67	FM0161D-CS	T	Solid	3546	
680-87496-68	FM0161AB-GS	T	Solid	3546	
680-87496-69	FM0161AC-GS	T	Solid	3546	
680-87496-70	Unamed Tributary Bank-A	T	Solid	3546	
680-87496-71	Unamed Tributary Grab-A	T	Solid	3546	
680-87496-72	Unamed Tributary SD-A	T	Solid	3546	
680-87496-73	Unamed Tributary Bank-B	T	Solid	3546	
680-87496-74	Unamed Tributary Grab-B	T	Solid	3546	
680-87496-75	Unamed Tributary SD-B	T	Solid	3546	
680-87496-76	Unamed Tributary SD-C	T	Solid	3546	
Analysis Batch:660-134722					
LCS 660-134677/2-A	Lab Control Sample	T	Solid	8270C LL	660-134677
MB 660-134677/1-A	Method Blank	T	Solid	8270C LL	660-134677
680-87496-A-48-B MS	Matrix Spike	T	Solid	8270C LL	660-134677
680-87496-A-48-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134677

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-4
Sdg Number: 68087496-4

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134771					
LCS 660-134699/2-A	Lab Control Sample	T	Solid	8270C LL	660-134699
MB 660-134699/1-A	Method Blank	T	Solid	8270C LL	660-134699
680-87496-61	FM0160K-CS	T	Solid	8270C LL	660-134699
680-87496-61MS	Matrix Spike	T	Solid	8270C LL	660-134699
680-87496-61MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134699
680-87496-62	FM0160K-CSD	T	Solid	8270C LL	660-134677
680-87496-63	FM0160L-CS	T	Solid	8270C LL	660-134677
680-87496-64	FM0161A-CS	T	Solid	8270C LL	660-134677
680-87496-65	FM0161B-CS	T	Solid	8270C LL	660-134677
680-87496-66	FM0161C-CS	T	Solid	8270C LL	660-134699
680-87496-67	FM0161D-CS	T	Solid	8270C LL	660-134699
680-87496-68	FM0161AB-GS	T	Solid	8270C LL	660-134699
680-87496-69	FM0161AC-GS	T	Solid	8270C LL	660-134699
680-87496-70	Unamed Tributary Bank-A	T	Solid	8270C LL	660-134699
680-87496-71	Unamed Tributary Grab-A	T	Solid	8270C LL	660-134699
680-87496-72	Unamed Tributary SD-A	T	Solid	8270C LL	660-134699
680-87496-73	Unamed Tributary Bank-B	T	Solid	8270C LL	660-134699
680-87496-74	Unamed Tributary Grab-B	T	Solid	8270C LL	660-134699
680-87496-75	Unamed Tributary SD-B	T	Solid	8270C LL	660-134699
Analysis Batch:660-134820					
680-87496-76	Unamed Tributary SD-C	T	Solid	8270C LL	660-134699

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-4
Sdg Number: 68087496-4

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134581					
MB 660-134581/1	Method Blank	T	Solid	Moisture	
680-87496-61	FM0160K-CS	T	Solid	Moisture	
680-87496-62	FM0160K-CSD	T	Solid	Moisture	
680-87496-63	FM0160L-CS	T	Solid	Moisture	
680-87496-64	FM0161A-CS	T	Solid	Moisture	
680-87496-65	FM0161B-CS	T	Solid	Moisture	
680-87496-66	FM0161C-CS	T	Solid	Moisture	
680-87496-67	FM0161D-CS	T	Solid	Moisture	
680-87496-69	FM0161AC-GS	T	Solid	Moisture	
680-87496-70	Unamed Tributary Bank-A	T	Solid	Moisture	
Analysis Batch:660-134584					
MB 660-134584/1	Method Blank	T	Solid	Moisture	
680-87496-71	Unamed Tributary Grab-A	T	Solid	Moisture	
680-87496-72	Unamed Tributary SD-A	T	Solid	Moisture	
680-87496-73	Unamed Tributary Bank-B	T	Solid	Moisture	
680-87496-74	Unamed Tributary Grab-B	T	Solid	Moisture	
680-87496-75	Unamed Tributary SD-B	T	Solid	Moisture	
680-87496-76	Unamed Tributary SD-C	T	Solid	Moisture	
Analysis Batch:660-134815					
LCS 660-134815/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134815/12	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87496-68	FM0161AB-GS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: IC 660-134771/3 Client Sample ID:

Date Analyzed: 02/22/13 11:01 Lab File ID: 1AB22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/22/13 12:53

Lab Sample ID: IC 660-134771/4 Client Sample ID:

Date Analyzed: 02/22/13 11:16 Lab File ID: 1AB22004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: IC 660-134771/5 Client Sample ID:

Date Analyzed: 02/22/13 11:31 Lab File ID: 1AB22005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: IC 660-134771/6 Client Sample ID:

Date Analyzed: 02/22/13 11:47 Lab File ID: 1AB22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: ICIS 660-134771/7 Client Sample ID:

Date Analyzed: 02/22/13 12:02 Lab File ID: 1AB22007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/22/13 12:51

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: IC 660-134771/8 Client Sample ID:

Date Analyzed: 02/22/13 12:17 Lab File ID: 1AB22008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/22/13 12:55

Lab Sample ID: IC 660-134771/9 Client Sample ID:

Date Analyzed: 02/22/13 12:32 Lab File ID: 1AB22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/22/13 12:56

Lab Sample ID: ICV 660-134771/10 Client Sample ID:

Date Analyzed: 02/22/13 12:48 Lab File ID: 1AB22010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.55	Baseline Event	cantins	02/22/13 13:04
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/22/13 13:02

Lab Sample ID: 680-87496-62 Client Sample ID: FM0160K-CSD

Date Analyzed: 02/22/13 15:39 Lab File ID: 1AB22021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.19	Split Peak	cantins	02/25/13 11:39
Benzo[k]fluoranthene	7.21	Baseline Event	cantins	02/25/13 11:39
Dibenz(a,h)anthracene	8.20	Baseline Event	cantins	02/25/13 11:40
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/25/13 11:40
Benzo[g,h,i]perylene	8.41	Baseline Event	cantins	02/25/13 11:40

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: 680-87496-63 Client Sample ID: FM0160L-CS

Date Analyzed: 02/22/13 15:55 Lab File ID: 1AB22022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/25/13 11:42
Benzo[k]fluoranthene	7.21	Baseline Event	cantins	02/25/13 11:42
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/25/13 11:42

Lab Sample ID: 680-87496-64 Client Sample ID: FM0161A-CS

Date Analyzed: 02/22/13 16:09 Lab File ID: 1AB22023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/25/13 11:43
Benzo[k]fluoranthene	7.21	Baseline Event	cantins	02/25/13 11:43
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/25/13 11:45
Dibenz(a,h)anthracene	8.21	Baseline Event	cantins	02/25/13 11:44

Lab Sample ID: 680-87496-65 Client Sample ID: FM0161B-CS

Date Analyzed: 02/22/13 16:25 Lab File ID: 1AB22024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.19	Split Peak	cantins	02/25/13 11:45
Benzo[k]fluoranthene	7.20	Baseline Event	cantins	02/25/13 11:46
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/25/13 11:47

Lab Sample ID: LCS 660-134699/2-A Client Sample ID:

Date Analyzed: 02/22/13 16:55 Lab File ID: 1AB22026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/25/13 13:43

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: 680-87496-61 Client Sample ID: FM0160K-CS

Date Analyzed: 02/22/13 17:10 Lab File ID: 1AB22027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.19	Split Peak	cantins	02/26/13 09:02
Benzo[k]fluoranthene	7.21	Baseline Event	cantins	02/26/13 09:02
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/26/13 09:03

Lab Sample ID: 680-87496-61 MS Client Sample ID: FM0160K-CS MS

Date Analyzed: 02/22/13 17:25 Lab File ID: 1AB22028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/26/13 09:03

Lab Sample ID: 680-87496-61 MSD Client Sample ID: FM0160K-CS MSD

Date Analyzed: 02/22/13 17:40 Lab File ID: 1AB22029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/26/13 09:04

Lab Sample ID: 680-87496-66 Client Sample ID: FM0161C-CS

Date Analyzed: 02/22/13 17:55 Lab File ID: 1AB22030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	6.38	Split Peak	cantins	02/26/13 09:09
Chrysene	6.40	Baseline Event	cantins	02/26/13 09:09
Benzo[b]fluoranthene	7.19	Split Peak	cantins	02/26/13 09:05
Benzo[k]fluoranthene	7.21	Baseline Event	cantins	02/26/13 09:06
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/26/13 09:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: 680-87496-67 Client Sample ID: FM0161D-CS

Date Analyzed: 02/22/13 18:10 Lab File ID: 1AB22031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/26/13 09:10
Benzo[k]fluoranthene	7.21	Baseline Event	cantins	02/26/13 09:10
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/26/13 09:11

Lab Sample ID: 680-87496-68 Client Sample ID: FM0161AB-GS

Date Analyzed: 02/22/13 18:26 Lab File ID: 1AB22032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.19	Split Peak	cantins	02/26/13 09:12
Benzo[k]fluoranthene	7.20	Baseline Event	cantins	02/26/13 09:12
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/26/13 09:13

Lab Sample ID: 680-87496-69 Client Sample ID: FM0161AC-GS

Date Analyzed: 02/22/13 18:41 Lab File ID: 1AB22033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/26/13 09:14
Benzo[k]fluoranthene	7.21	Baseline Event	cantins	02/26/13 09:14
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/26/13 09:15

Lab Sample ID: 680-87496-70 Client Sample ID: Unamed Tributary Bank-A

Date Analyzed: 02/22/13 18:55 Lab File ID: 1AB22034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.21	Split Peak	cantins	02/26/13 09:16
Benzo[k]fluoranthene	7.22	Baseline Event	cantins	02/26/13 09:16
Indeno[1,2,3-cd]pyrene	8.25	Split Peak	cantins	02/26/13 09:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: 680-87496-71 Client Sample ID: Unamed Tributary Grab-A

Date Analyzed: 02/22/13 19:11 Lab File ID: 1AB22035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.21	Split Peak	cantins	02/26/13 09:18
Benzo[k]fluoranthene	7.22	Baseline Event	cantins	02/26/13 09:18
Indeno[1,2,3-cd]pyrene	8.22	Split Peak	cantins	02/26/13 09:18

Lab Sample ID: 680-87496-72 Client Sample ID: Unamed Tributary SD-A

Date Analyzed: 02/22/13 19:26 Lab File ID: 1AB22036.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	02/26/13 09:20
Benzo[k]fluoranthene	7.24	Baseline Event	cantins	02/26/13 09:20
Indeno[1,2,3-cd]pyrene	8.25	Split Peak	cantins	02/26/13 09:21

Lab Sample ID: 680-87496-73 Client Sample ID: Unamed Tributary Bank-B

Date Analyzed: 02/22/13 19:41 Lab File ID: 1AB22037.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.21	Split Peak	cantins	02/26/13 09:22
Benzo[k]fluoranthene	7.22	Baseline Event	cantins	02/26/13 09:22
Indeno[1,2,3-cd]pyrene	8.22	Split Peak	cantins	02/26/13 09:23

Lab Sample ID: 680-87496-74 Client Sample ID: Unamed Tributary Grab-B

Date Analyzed: 02/22/13 19:56 Lab File ID: 1AB22038.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/26/13 09:24
Benzo[k]fluoranthene	7.22	Baseline Event	cantins	02/26/13 09:24
Indeno[1,2,3-cd]pyrene	8.22	Split Peak	cantins	02/26/13 09:25

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: 680-87496-75 Client Sample ID: Unamed Tributary SD-B

Date Analyzed: 02/22/13 20:11 Lab File ID: 1AB22039.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.21	Split Peak	cantins	02/26/13 09:26
Benzo[k]fluoranthene	7.22	Baseline Event	cantins	02/26/13 09:26
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/26/13 09:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Analysis Batch Number: 134820

Lab Sample ID: CCVIS 660-134820/6 Client Sample ID:

Date Analyzed: 02/25/13 14:59 Lab File ID: 1AB25006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.16	Split Peak	cantins	02/25/13 15:12

Lab Sample ID: 680-87496-76 Client Sample ID: Unamed Tributary SD-C

Date Analyzed: 02/26/13 01:47 Lab File ID: 1AB25049.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.21	Split Peak	cantins	02/26/13 10:17
Benzo[k]fluoranthene	7.22	Baseline Event	cantins	02/26/13 10:17
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/26/13 10:18

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMD5973 Analysis Batch Number: 133192

Lab Sample ID: IC 660-133192/3 Client Sample ID:

Date Analyzed: 01/07/13 10:43 Lab File ID: 1DA07003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	12.89	Baseline Event	cantins	01/07/13 13:45
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:44
Dibenz(a,h)anthracene	15.09	Baseline Event	cantins	01/07/13 13:43
Benzo[g,h,i]perylene	15.51	Baseline Event	cantins	01/07/13 13:43

Lab Sample ID: IC 660-133192/4 Client Sample ID:

Date Analyzed: 01/07/13 11:05 Lab File ID: 1DA07004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:45
Dibenz(a,h)anthracene	15.08	Baseline Event	cantins	01/07/13 13:45
Benzo[g,h,i]perylene	15.50	Baseline Event	cantins	01/07/13 13:45

Lab Sample ID: IC 660-133192/5 Client Sample ID:

Date Analyzed: 01/07/13 11:28 Lab File ID: 1DA07005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:46
Dibenz(a,h)anthracene	15.08	Baseline Event	cantins	01/07/13 13:47
Benzo[g,h,i]perylene	15.51	Baseline Event	cantins	01/07/13 13:46

Lab Sample ID: IC 660-133192/6 Client Sample ID:

Date Analyzed: 01/07/13 11:50 Lab File ID: 1DA07006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMD5973 Analysis Batch Number: 133192

Lab Sample ID: IC 660-133192/9 Client Sample ID:

Date Analyzed: 01/07/13 12:58 Lab File ID: 1DA07009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	01/07/13 13:48

Lab Sample ID: ICV 660-133192/10 Client Sample ID:

Date Analyzed: 01/07/13 13:20 Lab File ID: 1DA07010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.36	Baseline Event	cantins	01/07/13 13:54

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMD5973 Analysis Batch Number: 134722

Lab Sample ID: 680-87496-A-48-B MS Client Sample ID:

Date Analyzed: 02/21/13 21:44 Lab File ID: 1DB21029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.97	Split Peak	cantins	02/25/13 10:26

Lab Sample ID: 680-87496-A-48-C MSD Client Sample ID:

Date Analyzed: 02/21/13 22:06 Lab File ID: 1DB21030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.97	Split Peak	cantins	02/25/13 10:26

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.: 680-87496-4

SDG No.: 68087496-4

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
FM0160K-CS	680-87496-61	64
FM0160K-CSD	680-87496-62	70
FM0160L-CS	680-87496-63	77
FM0161A-CS	680-87496-64	66
FM0161B-CS	680-87496-65	83
FM0161C-CS	680-87496-66	79
FM0161D-CS	680-87496-67	51
FM0161AB-GS	680-87496-68	71
FM0161AC-GS	680-87496-69	60
Unamed Tributary Bank-A	680-87496-70	63
Unamed Tributary Grab-A	680-87496-71	59
Unamed Tributary SD-A	680-87496-72	48
Unamed Tributary Bank-B	680-87496-73	64
Unamed Tributary Grab-B	680-87496-74	54
Unamed Tributary SD-B	680-87496-75	33
Unamed Tributary SD-C	680-87496-76	34
	MB 660-134677/1-A	90
	MB 660-134699/1-A	73
	LCS 660-134677/2-A	100
	LCS 660-134699/2-A	81
	680-87496-A-48-B MS	108
FM0160K-CS MS	680-87496-61 MS	57
	680-87496-A-48-C MSD	105
FM0160K-CS MSD	680-87496-61 MSD	69

	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.: 680-87496-4

SDG No.: 68087496-4

Matrix: Solid Level: Low Lab File ID: 1DB21024.D

Lab ID: LCS 660-134677/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	656	563	86	39-130	
Acenaphthylene	656	582	89	38-130	
Anthracene	656	544	83	37-130	
Benzo[a]anthracene	656	578	88	40-130	
Benzo[a]pyrene	656	537	82	49-130	
Benzo[b]fluoranthene	656	654	100	37-130	
Benzo[g,h,i]perylene	656	430	66	32-130	
Benzo[k]fluoranthene	656	629	96	32-130	
Chrysene	656	569	87	41-130	
Dibenz(a,h)anthracene	656	542	83	27-130	
Fluoranthene	656	618	94	40-130	
Fluorene	656	588	90	40-130	
Indeno[1,2,3-cd]pyrene	656	465	71	30-130	
1-Methylnaphthalene	656	611	93	31-130	
2-Methylnaphthalene	656	596	91	33-130	
Naphthalene	656	563	86	36-130	
Phenanthrene	656	567	86	42-130	
Pyrene	656	584	89	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.: 680-87496-4

SDG No.: 68087496-4

Matrix: Solid Level: Low Lab File ID: 1AB22026.D

Lab ID: LCS 660-134699/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	652	448	69	39-130	
Acenaphthylene	652	498	76	38-130	
Anthracene	652	503	77	37-130	
Benzo[a]anthracene	652	538	82	40-130	
Benzo[a]pyrene	652	363	56	49-130	
Benzo[b]fluoranthene	652	364	56	37-130	
Benzo[g,h,i]perylene	652	490	75	32-130	
Benzo[k]fluoranthene	652	421	65	32-130	
Chrysene	652	449	69	41-130	
Dibenz(a,h)anthracene	652	504	77	27-130	
Fluoranthene	652	531	81	40-130	
Fluorene	652	491	75	40-130	
Indeno[1,2,3-cd]pyrene	652	484	74	30-130	
1-Methylnaphthalene	652	580	89	31-130	
2-Methylnaphthalene	652	561	86	33-130	
Naphthalene	652	497	76	36-130	
Phenanthrene	652	496	76	42-130	
Pyrene	652	623	96	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.: 680-87496-4

SDG No.: 68087496-4

Matrix: Solid Level: Low Lab File ID: 1DB21029.D

Lab ID: 680-87496-A-48-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	709	430 U	659	93	39-130	
Acenaphthylene	709	42 J	715	95	38-130	
Anthracene	709	57	751	98	37-130	
Benzo[a]anthracene	709	200	1050	119	40-130	
Benzo[a]pyrene	709	210	1030	116	49-130	
Benzo[b]fluoranthene	709	400	1410	144	37-130	F
Benzo[g,h,i]perylene	709	110	572	65	32-130	
Benzo[k]fluoranthene	709	130	1060	131	32-130	F
Chrysene	709	250	1130	124	41-130	
Dibenz(a,h)anthracene	709	39 J	577	76	27-130	
Fluoranthene	709	350	1400	149	40-130	F
Fluorene	709	85 U	706	100	40-130	
Indeno[1,2,3-cd]pyrene	709	110	634	74	30-130	
1-Methylnaphthalene	709	100 J	739	90	31-130	
2-Methylnaphthalene	709	120 J	750	89	33-130	
Naphthalene	709	100 J	675	81	36-130	
Phenanthrene	709	210	977	108	42-130	
Pyrene	709	290	1260	137	44-130	F

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.: 680-87496-4

SDG No.: 68087496-4

Matrix: Solid Level: Low Lab File ID: 1AB22028.D

Lab ID: 680-87496-61 MS Client ID: FM0160K-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	685	100 U	385	56	39-130	
Acenaphthylene	685	6.1 J	401	58	38-130	
Anthracene	685	10	414	59	37-130	
Benzo[a]anthracene	685	45	434	57	40-130	
Benzo[a]pyrene	685	27	314	42	49-130	F
Benzo[b]fluoranthene	685	43	321	41	37-130	
Benzo[g,h,i]perylene	685	28	396	54	32-130	
Benzo[k]fluoranthene	685	11	335	47	32-130	
Chrysene	685	43	388	50	41-130	
Dibenz(a,h)anthracene	685	11 J	413	59	27-130	
Fluoranthene	685	44	347	44	40-130	
Fluorene	685	21 U	401	59	40-130	
Indeno[1,2,3-cd]pyrene	685	24	395	54	30-130	
1-Methylnaphthalene	685	22 J	492	69	31-130	
2-Methylnaphthalene	685	24 J	468	65	33-130	
Naphthalene	685	36 J	457	62	36-130	
Phenanthrene	685	37	450	60	42-130	
Pyrene	685	49	417	54	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.: 680-87496-4

SDG No.: 68087496-4

Matrix: Solid Level: Low Lab File ID: 1DB21030.D

Lab ID: 680-87496-A-48-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	709	655	92	1	40	39-130	
Acenaphthylene	709	685	91	4	40	38-130	
Anthracene	709	721	94	4	40	37-130	
Benzo[a]anthracene	709	885	96	17	40	40-130	
Benzo[a]pyrene	709	893	96	15	40	49-130	
Benzo[b]fluoranthene	709	1180	111	18	40	37-130	
Benzo[g,h,i]perylene	709	507	56	12	40	32-130	
Benzo[k]fluoranthene	709	938	114	12	40	32-130	
Chrysene	709	938	97	19	40	41-130	
Dibenz(a,h)anthracene	709	559	73	3	40	27-130	
Fluoranthene	709	1080	103	26	40	40-130	
Fluorene	709	674	95	5	40	40-130	
Indeno[1,2,3-cd]pyrene	709	566	64	11	40	30-130	
1-Methylnaphthalene	709	775	95	5	40	31-130	
2-Methylnaphthalene	709	757	90	1	40	33-130	
Naphthalene	709	688	83	2	40	36-130	
Phenanthrene	709	831	88	16	40	42-130	
Pyrene	709	984	97	25	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.: 680-87496-4

SDG No.: 68087496-4

Matrix: Solid Level: Low Lab File ID: 1AB22029.D

Lab ID: 680-87496-61 MSD Client ID: FM0160K-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	685	463	68	18	40	39-130	
Acenaphthylene	685	501	72	22	40	38-130	
Anthracene	685	512	73	21	40	37-130	
Benzo[a]anthracene	685	530	71	20	40	40-130	
Benzo[a]pyrene	685	402	55	24	40	49-130	
Benzo[b]fluoranthene	685	412	54	25	40	37-130	
Benzo[g,h,i]perylene	685	508	70	25	40	32-130	
Benzo[k]fluoranthene	685	425	60	24	40	32-130	
Chrysene	685	475	63	20	40	41-130	
Dibenz(a,h)anthracene	685	514	74	22	40	27-130	
Fluoranthene	685	413	54	17	40	40-130	
Fluorene	685	508	74	24	40	40-130	
Indeno[1,2,3-cd]pyrene	685	528	74	29	40	30-130	
1-Methylnaphthalene	685	572	80	15	40	31-130	
2-Methylnaphthalene	685	569	80	19	40	33-130	
Naphthalene	685	525	72	14	40	36-130	
Phenanthrene	685	537	73	18	40	42-130	
Pyrene	685	515	68	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.: 680-87496-4

SDG No.: 68087496-4

Lab File ID: 1DB21023.D Lab Sample ID: MB 660-134677/1-A

Matrix: Solid Date Extracted: 02/20/2013 15:19

Instrument ID: BSMD5973 Date Analyzed: 02/21/2013 19:28

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134677/2-A	1DB21024.D	02/21/2013 19:51
	680-87496-A-48-B MS	1DB21029.D	02/21/2013 21:44
	680-87496-A-48-C MSD	1DB21030.D	02/21/2013 22:06
FM0160K-CSD	680-87496-62	1AB22021.D	02/22/2013 15:39
FM0160L-CS	680-87496-63	1AB22022.D	02/22/2013 15:55
FM0161A-CS	680-87496-64	1AB22023.D	02/22/2013 16:09
FM0161B-CS	680-87496-65	1AB22024.D	02/22/2013 16:25

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Lab File ID: 1AB22025.D Lab Sample ID: MB 660-134699/1-A

Matrix: Solid Date Extracted: 02/21/2013 09:55

Instrument ID: BSMA5973 Date Analyzed: 02/22/2013 16:39

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134699/2-A	1AB22026.D	02/22/2013 16:55
FM0160K-CS	680-87496-61	1AB22027.D	02/22/2013 17:10
FM0160K-CS MS	680-87496-61 MS	1AB22028.D	02/22/2013 17:25
FM0160K-CS MSD	680-87496-61 MSD	1AB22029.D	02/22/2013 17:40
FM0161C-CS	680-87496-66	1AB22030.D	02/22/2013 17:55
FM0161D-CS	680-87496-67	1AB22031.D	02/22/2013 18:10
FM0161AB-GS	680-87496-68	1AB22032.D	02/22/2013 18:26
FM0161AC-GS	680-87496-69	1AB22033.D	02/22/2013 18:41
Unamed Tributary Bank-A	680-87496-70	1AB22034.D	02/22/2013 18:55
Unamed Tributary Grab-A	680-87496-71	1AB22035.D	02/22/2013 19:11
Unamed Tributary SD-A	680-87496-72	1AB22036.D	02/22/2013 19:26
Unamed Tributary Bank-B	680-87496-73	1AB22037.D	02/22/2013 19:41
Unamed Tributary Grab-B	680-87496-74	1AB22038.D	02/22/2013 19:56
Unamed Tributary SD-B	680-87496-75	1AB22039.D	02/22/2013 20:11
Unamed Tributary SD-C	680-87496-76	1AB25049.D	02/26/2013 01:47

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Lab File ID: 1AB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:42

Analysis Batch No.: 134771

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	63.5
68	Less than 2.0 % of mass 69	0.9 (1.7)1
69	Mass 69 relative abundance	53.6
70	Less than 2.0 % of mass 69	0.4 (0.8)1
127	10.0 - 80.0 % of mass 198	44.3
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	25.0
365	Greater than 1.0 % of mass 198	3.2
441	Present but less than mass 443	8.5
442	Greater than 50.0 % of mass 198	67.6
443	15.0 - 24.0 % of mass 442	10.7 (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
	IC 660-134771/3	1AB22003.D	02/22/2013	11:01
	IC 660-134771/4	1AB22004.D	02/22/2013	11:16
	IC 660-134771/5	1AB22005.D	02/22/2013	11:31
	IC 660-134771/6	1AB22006.D	02/22/2013	11:47
	ICIS 660-134771/7	1AB22007.D	02/22/2013	12:02
	IC 660-134771/8	1AB22008.D	02/22/2013	12:17
	IC 660-134771/9	1AB22009.D	02/22/2013	12:32
	ICV 660-134771/10	1AB22010.D	02/22/2013	12:48
FM0160K-CSD	680-87496-62	1AB22021.D	02/22/2013	15:39
FM0160L-CS	680-87496-63	1AB22022.D	02/22/2013	15:55
FM0161A-CS	680-87496-64	1AB22023.D	02/22/2013	16:09
FM0161B-CS	680-87496-65	1AB22024.D	02/22/2013	16:25
	MB 660-134699/1-A	1AB22025.D	02/22/2013	16:39
	LCS 660-134699/2-A	1AB22026.D	02/22/2013	16:55
FM0160K-CS	680-87496-61	1AB22027.D	02/22/2013	17:10
FM0160K-CS MS	680-87496-61 MS	1AB22028.D	02/22/2013	17:25
FM0160K-CS MSD	680-87496-61 MSD	1AB22029.D	02/22/2013	17:40
FM0161C-CS	680-87496-66	1AB22030.D	02/22/2013	17:55
FM0161D-CS	680-87496-67	1AB22031.D	02/22/2013	18:10
FM0161AB-GS	680-87496-68	1AB22032.D	02/22/2013	18:26
FM0161AC-GS	680-87496-69	1AB22033.D	02/22/2013	18:41
Unamed Tributary Bank-A	680-87496-70	1AB22034.D	02/22/2013	18:55
Unamed Tributary Grab-A	680-87496-71	1AB22035.D	02/22/2013	19:11

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Lab File ID: 1AB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:42

Analysis Batch No.: 134771

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	63.5	
68	Less than 2.0 % of mass 69	0.9	(1.7)1
69	Mass 69 relative abundance	53.6	
70	Less than 2.0 % of mass 69	0.4	(0.8)1
127	10.0 - 80.0 % of mass 198	44.3	
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	25.0	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	8.5	
442	Greater than 50.0 % of mass 198	67.6	
443	15.0 - 24.0 % of mass 442	10.7	(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
Unamed Tributary SD-A	680-87496-72	1AB22036.D	02/22/2013	19:26
Unamed Tributary Bank-B	680-87496-73	1AB22037.D	02/22/2013	19:41
Unamed Tributary Grab-B	680-87496-74	1AB22038.D	02/22/2013	19:56
Unamed Tributary SD-B	680-87496-75	1AB22039.D	02/22/2013	20:11

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Lab File ID: 1AB25005.D DFTPP Injection Date: 02/25/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 14:44

Analysis Batch No.: 134820

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	55.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	52.3	
70	Less than 2.0 % of mass 69	0.5	(0.9)1
127	10.0 - 80.0 % of mass 198	49.4	
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	6.7	
275	10.0 - 60.0 % of mass 198	27.6	
365	Greater than 1.0 % of mass 198	4.0	
441	Present but less than mass 443	10.1	
442	Greater than 50.0 % of mass 198	68.9	
443	15.0 - 24.0 % of mass 442	13.9	(20.2)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 660-134820/6	1AB25006.D	02/25/2013	14:59
Unamed Tributary SD-C	680-87496-76	1AB25049.D	02/26/2013	01:47

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Lab File ID: 1DA07002.D DFTPP Injection Date: 01/07/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 09:59

Analysis Batch No.: 133192

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	44.2	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.8	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	50.7	
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	6.5	
275	10.0 - 60.0 % of mass 198	25.1	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	2.1	
442	Greater than 50.0 % of mass 198	67.6	
443	15.0 - 24.0 % of mass 442	13.6	(20.1)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 660-133192/3	1DA07003.D	01/07/2013	10:43
	IC 660-133192/4	1DA07004.D	01/07/2013	11:05
	IC 660-133192/5	1DA07005.D	01/07/2013	11:28
	IC 660-133192/6	1DA07006.D	01/07/2013	11:50
	ICIS 660-133192/7	1DA07007.D	01/07/2013	12:13
	IC 660-133192/8	1DA07008.D	01/07/2013	12:36
	IC 660-133192/9	1DA07009.D	01/07/2013	12:58
	ICV 660-133192/10	1DA07010.D	01/07/2013	13:20

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Lab File ID: 1DB21002.D DFTPP Injection Date: 02/21/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:40

Analysis Batch No.: 134722

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	48.2	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	49.7	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	10.0 - 80.0 % of mass 198	52.8	
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	6.6	
275	10.0 - 60.0 % of mass 198	24.9	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	9.7	
442	Greater than 50.0 % of mass 198	61.1	
443	15.0 - 24.0 % of mass 442	11.7	(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
	CCVIS 660-134722/3	1DB21003.D	02/21/2013	11:57
	MB 660-134677/1-A	1DB21023.D	02/21/2013	19:28
	LCS 660-134677/2-A	1DB21024.D	02/21/2013	19:51
	680-87496-A-48-B MS	1DB21029.D	02/21/2013	21:44
	680-87496-A-48-C MSD	1DB21030.D	02/21/2013	22:06

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Sample No.: ICIS 660-134771/7 Date Analyzed: 02/22/2013 12:02

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

Lab File ID (Standard): 1AB22007.D Heated Purge: (Y/N) N

Calibration ID: 2759

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		991704	2.40	622858	3.42	968921	4.35
UPPER LIMIT		1983408	2.90	1245716	3.92	1937842	4.85
LOWER LIMIT		495852	1.90	311429	2.92	484461	3.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134771/10		1470215	2.40	948405	3.42	1446139	4.36
680-87496-62	FM0160K-CSD	980135	2.40	807895	3.42	1127755	4.37
680-87496-63	FM0160L-CS	934993	2.40	790255	3.42	976416	4.36
680-87496-64	FM0161A-CS	1051648	2.40	843789	3.42	1166083	4.36
680-87496-65	FM0161B-CS	1105389	2.40	868839	3.42	1261474	4.37
MB 660-134699/1-A		1054254	2.40	839973	3.42	1221542	4.37
LCS 660-134699/2-A		1080818	2.40	807413	3.43	1222937	4.37
680-87496-61	FM0160K-CS	1099139	2.40	875100	3.43	1221741	4.37
680-87496-61 MS	FM0160K-CS MS	1128067	2.40	855211	3.43	1240491	4.36
680-87496-61 MSD	FM0160K-CS MSD	1049303	2.40	784243	3.42	1180099	4.36
680-87496-66	FM0161C-CS	1011586	2.40	812979	3.43	1118743	4.37
680-87496-67	FM0161D-CS	1356853	2.40	1007923	3.43	1481958	4.37
680-87496-68	FM0161AB-GS	1023373	2.40	815874	3.42	1134954	4.36
680-87496-69	FM0161AC-GS	1014482	2.40	791830	3.43	1083011	4.37
680-87496-70	Unamed Tributary Bank-A	960859	2.40	730806	3.43	1053995	4.37
680-87496-71	Unamed Tributary Grab-A	1063578	2.40	887514	3.43	1129944	4.37
680-87496-72	Unamed Tributary SD-A	965389	2.40	748733	3.43	1022005	4.37
680-87496-73	Unamed Tributary Bank-B	1051403	2.40	843007	3.43	1183671	4.37
680-87496-74	Unamed Tributary Grab-B	1005025	2.40	782334	3.43	1160259	4.37
680-87496-75	Unamed Tributary SD-B	977851	2.40	818490	3.43	1091790	4.37

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.: 680-87496-4

SDG No.: 68087496-4

Sample No.: ICIS 660-134771/7 Date Analyzed: 02/22/2013 12:02

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

Lab File ID (Standard): 1AB22007.D Heated Purge: (Y/N) N

Calibration ID: 2759

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		842371	6.37	860097	7.46		
UPPER LIMIT		1684742	6.87	1720194	7.96		
LOWER LIMIT		421186	5.87	430049	6.96		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134771/10		1373239	6.37	1363331	7.46		
680-87496-62	FM0160K-CSD	652372	6.38	901198	7.48		
680-87496-63	FM0160L-CS	707905	6.39	1036562	7.49		
680-87496-64	FM0161A-CS	682483	6.38	962530	7.48		
680-87496-65	FM0161B-CS	755208	6.38	1027000	7.48		
MB 660-134699/1-A		764305	6.38	915808	7.48		
LCS 660-134699/2-A		893924	6.38	1000053	7.48		
680-87496-61	FM0160K-CS	760783	6.38	985869	7.48		
680-87496-61 MS	FM0160K-CS MS	801823	6.38	1085241	7.48		
680-87496-61 MSD	FM0160K-CS MSD	765601	6.38	1035149	7.48		
680-87496-66	FM0161C-CS	750931	6.39	1033583	7.48		
680-87496-67	FM0161D-CS	998596	6.38	1333117	7.49		
680-87496-68	FM0161AB-GS	731647	6.38	992110	7.48		
680-87496-69	FM0161AC-GS	740981	6.39	1103297	7.49		
680-87496-70	Unamed Tributary Bank-A	851924	6.40	1402077	7.51		
680-87496-71	Unamed Tributary Grab-A	775110	6.40	1155323	7.50		
680-87496-72	Unamed Tributary SD-A	896367	6.40	1281443	7.51		
680-87496-73	Unamed Tributary Bank-B	822562	6.39	1222300	7.50		
680-87496-74	Unamed Tributary Grab-B	814820	6.39	1180154	7.50		
680-87496-75	Unamed Tributary SD-B	851875	6.39	1232991	7.50		

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.: 680-87496-4

SDG No.: 68087496-4

Sample No.: CCVIS 660-134820/6 Date Analyzed: 02/25/2013 14:59

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

Lab File ID (Standard): 1AB25006.D Heated Purge: (Y/N) N

Calibration ID: 2759

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		843764	2.38	532930	3.40	749974	4.34
UPPER LIMIT		1687528	2.88	1065860	3.90	1499948	4.84
LOWER LIMIT		421882	1.88	266465	2.90	374987	3.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87496-76	Unamed Tributary SD-C	566940	2.40	405836	3.42	638001	4.37

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.: 680-87496-4

SDG No.: 68087496-4

Sample No.: CCVIS 660-134820/6 Date Analyzed: 02/25/2013 14:59

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

Lab File ID (Standard): 1AB25006.D Heated Purge: (Y/N) N

Calibration ID: 2759

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		646044	6.35	653985	7.44		
UPPER LIMIT		1292088	6.85	1307970	7.94		
LOWER LIMIT		323022	5.85	326993	6.94		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87496-76	Unamed Tributary SD-C	501059	6.40	575711	7.50		

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.: 680-87496-4

SDG No.: 68087496-4

Sample No.: ICIS 660-133192/7 Date Analyzed: 01/07/2013 12:13

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DA07007.D Heated Purge: (Y/N) N

Calibration ID: 2662

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2894220	6.23	1692196	7.90	2742443	9.16
UPPER LIMIT		5788440	6.73	3384392	8.40	5484886	9.66
LOWER LIMIT		1447110	5.73	846098	7.40	1371222	8.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133192/10		2887037	6.24	1699245	7.91	2845473	9.16

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.: 680-87496-4

SDG No.: 68087496-4

Sample No.: ICIS 660-133192/7 Date Analyzed: 01/07/2013 12:13

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DA07007.D Heated Purge: (Y/N) N

Calibration ID: 2662

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2671554	11.52	2767955	13.42		
UPPER LIMIT		5343108	12.02	5535910	13.92		
LOWER LIMIT		1335777	11.02	1383978	12.92		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133192/10		2715172	11.53	2800784	13.42		

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.: 680-87496-4

SDG No.: 68087496-4

Sample No.: CCVIS 660-134722/3 Date Analyzed: 02/21/2013 11:57

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DB21003.D Heated Purge: (Y/N) N

Calibration ID: 2662

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4805924	6.20	2903448	7.86	4784360	9.13
UPPER LIMIT		9611848	6.70	5806896	8.36	9568720	9.63
LOWER LIMIT		2402962	5.70	1451724	7.36	2392180	8.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134677/1-A		3444102	6.19	2086349	7.86	3394356	9.12
LCS 660-134677/2-A		3424111	6.19	2074866	7.86	3364524	9.12
680-87496-A-48-B MS		3353616	6.19	2027560	7.87	3330952	9.12
680-87496-A-48-C MSD		3280026	6.20	1985095	7.87	3232519	9.12

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.: 680-87496-4

SDG No.: 68087496-4

Sample No.: CCVIS 660-134722/3 Date Analyzed: 02/21/2013 11:57

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DB21003.D Heated Purge: (Y/N) N

Calibration ID: 2662

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4876621	11.48	5208006	13.36		
UPPER LIMIT		9753242	11.98	10416012	13.86		
LOWER LIMIT		2438311	10.98	2604003	12.86		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134677/1-A		3308053	11.47	3181769	13.35		
LCS 660-134677/2-A		3316322	11.47	3169855	13.35		
680-87496-A-48-B MS		3258268	11.47	2838548	13.36		
680-87496-A-48-C MSD		3166345	11.47	2723446	13.36		

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.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0160K-CS | Lab Sample ID: 680-87496-61

Matrix: Solid | Lab File ID: 1AB22027.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:09

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.28(g) | Date Analyzed: 02/22/2013 17:10

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

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

% Moisture: 4.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	6.1	J	41	5.1
120-12-7	Anthracene	10		8.6	4.3
56-55-3	Benzo[a]anthracene	45		8.2	4.0
50-32-8	Benzo[a]pyrene	27	F	11	5.3
205-99-2	Benzo[b]fluoranthene	43		13	6.3
191-24-2	Benzo[g,h,i]perylene	28		21	4.5
207-08-9	Benzo[k]fluoranthene	11		8.2	3.7
218-01-9	Chrysene	43		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	11	J	21	4.2
206-44-0	Fluoranthene	44		21	4.1
86-73-7	Fluorene	21	U	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	24		21	7.3
90-12-0	1-Methylnaphthalene	22	J	41	4.5
91-57-6	2-Methylnaphthalene	24	J	41	7.3
91-20-3	Naphthalene	36	J	41	4.5
85-01-8	Phenanthrene	37		8.2	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\1A022213_IC.b\1AB22027.D
Lab Smp Id: 680-87496-A-61-A Client Smp ID: FM0160K-CS
Inj Date : 22-FEB-2013 17:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-61-a
Misc Info : 680-87496-A-61-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 27
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	15.280	Weight Extracted
M	4.400	% 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	2.399	2.397	(1.000)	1099139	40.0000	
* 6 Acenaphthene-d10	164	3.425	3.417	(1.000)	875100	40.0000	
* 10 Phenanthrene-d10	188	4.365	4.352	(1.000)	1221741	40.0000	
$ 14 o-Terphenyl	230	4.638	4.635	(1.062)	114633	6.44817	441.4229
* 18 Chrysene-d12	240	6.379	6.366	(1.000)	760783	40.0000	
* 23 Perylene-d12	264	7.480	7.456	(1.000)	985869	40.0000	(H)
2 Naphthalene	128	2.405	2.402	(1.002)	13757	0.51942	35.5582
3 2-Methylnaphthalene	141	2.811	2.808	(1.171)	4841	0.35407	24.2383
4 1-Methylnaphthalene	142	2.864	2.861	(1.194)	4937	0.32426	22.1980
5 Acenaphthylene	152	3.334	3.332	(0.973)	2892	0.08851	6.0590
11 Phenanthrene	178	4.376	4.368	(1.002)	16483	0.54277	37.1564
12 Anthracene	178	4.408	4.400	(1.010)	4485	0.15204	10.4084
13 Carbazole	167	4.563	4.555	(1.045)	2360	0.09063	6.2042
15 Fluoranthene	202	5.236	5.228	(1.199)	19412	0.63931	43.7652

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.402	5.394	(0.847)	16044	0.71898	49.2195
17 Benzo(a)anthracene	228	6.379	6.355	(1.000)	14864	0.65433	44.7935
19 Chrysene	228	6.395	6.387	(1.002)	12887	0.63431	43.4232
20 Benzo(b)fluoranthene	252	7.191	7.178	(0.961)	15520	0.62101	42.5122(MH)
21 Benzo(k)fluoranthene	252	7.207	7.199	(0.964)	3905	0.15531	10.6321(QM)
22 Benzo(a)pyrene	252	7.421	7.408	(0.992)	9076	0.39656	27.1470(H)
24 Indeno(1,2,3-cd)pyrene	276	8.195	8.177	(1.096)	6874	0.35009	23.9659(MH)
25 Dibenzo(a,h)anthracene	278	8.206	8.193	(1.097)	3274	0.16001	10.9537(H)
26 Benzo(g,h,i)perylene	276	8.404	8.385	(1.124)	8670	0.41515	28.4197(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: 1AB22027.D

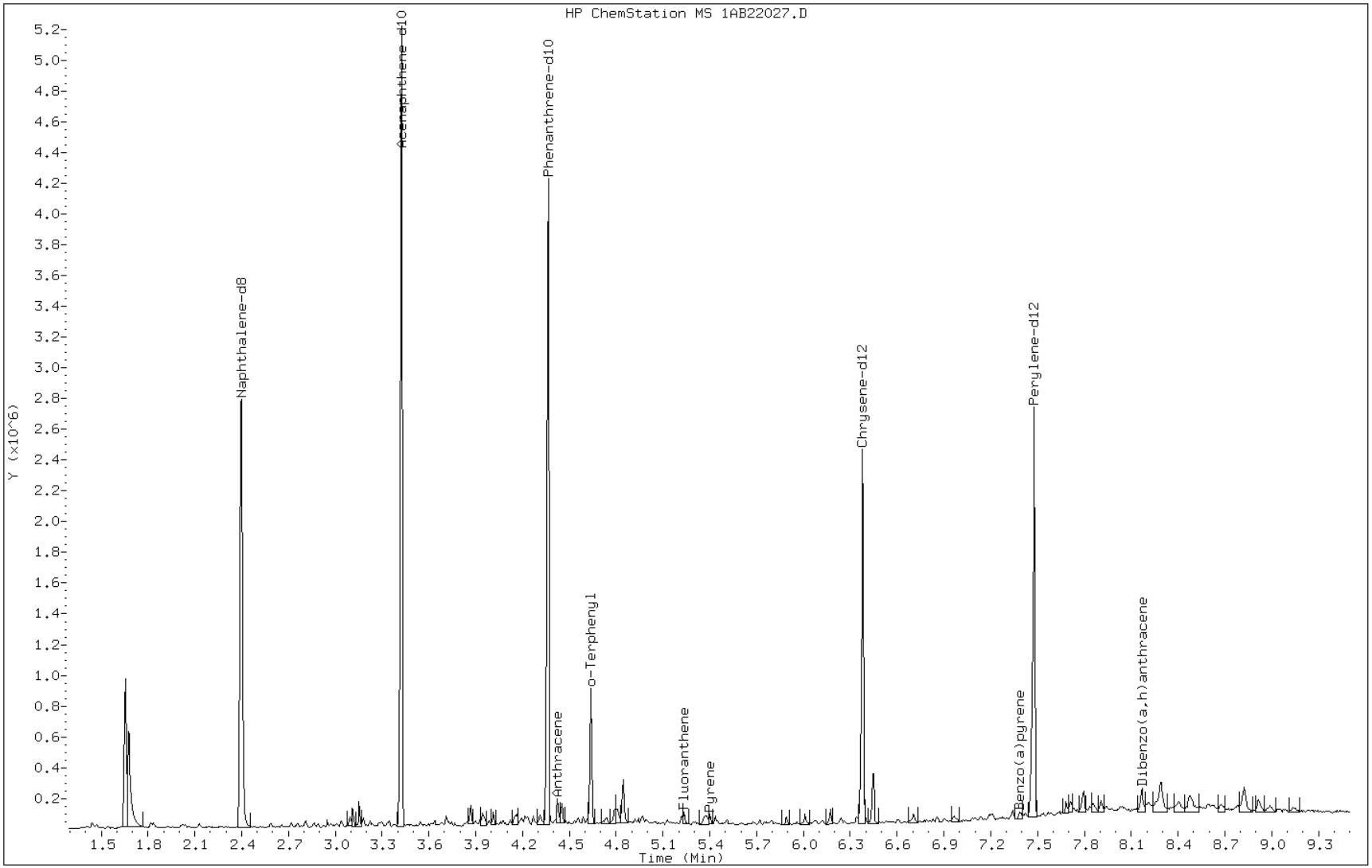
Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a

Operator: SCC



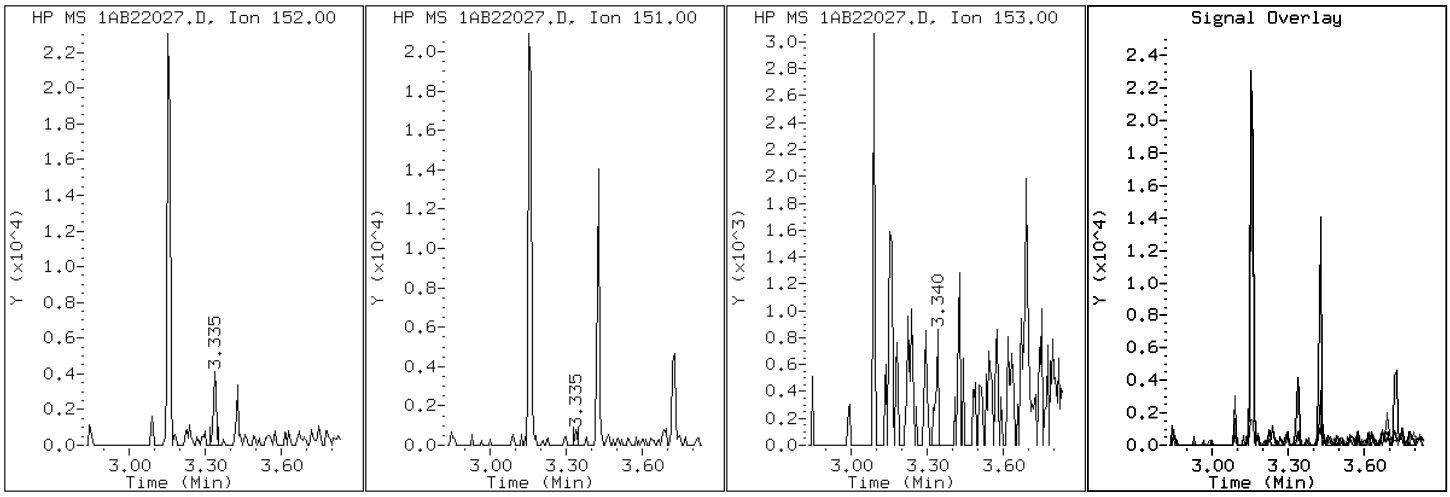
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

5 Acenaphthylene



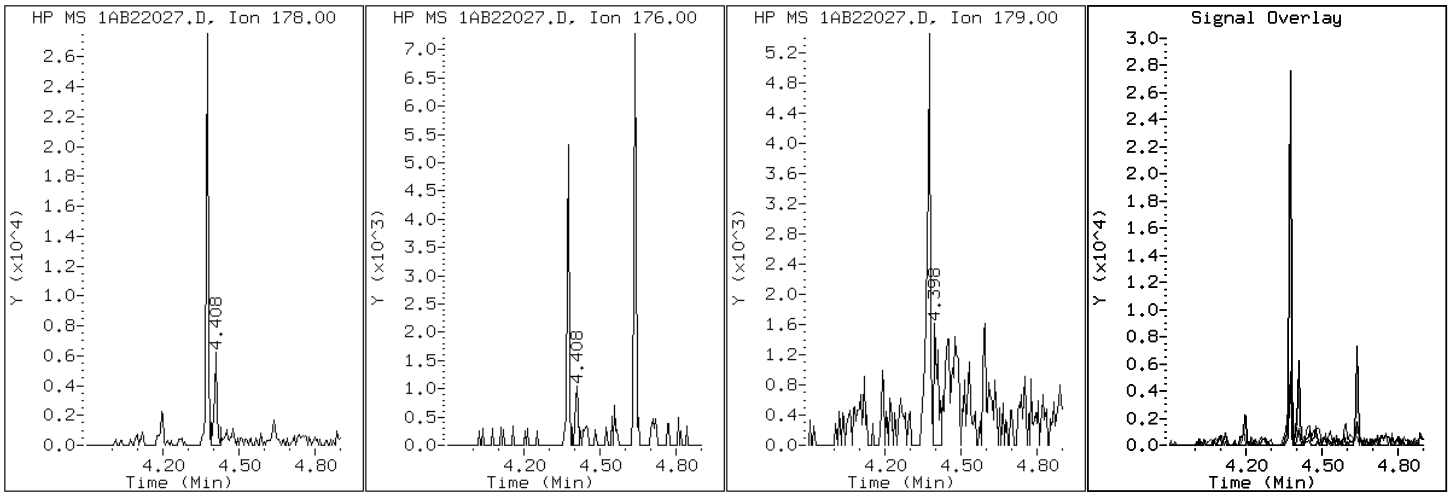
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

12 Anthracene



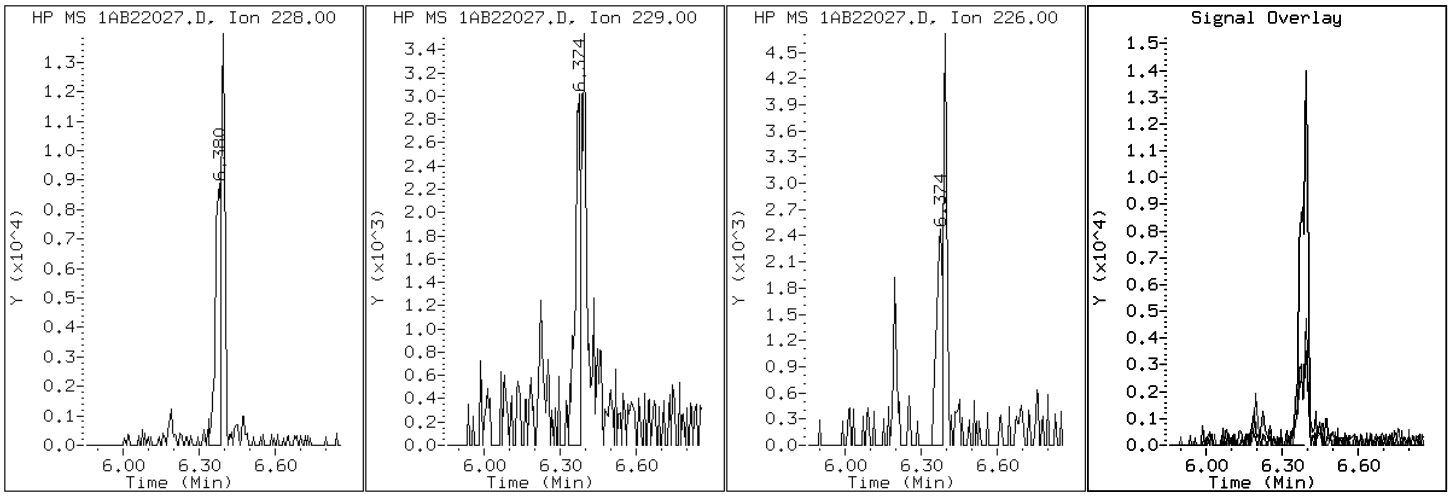
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

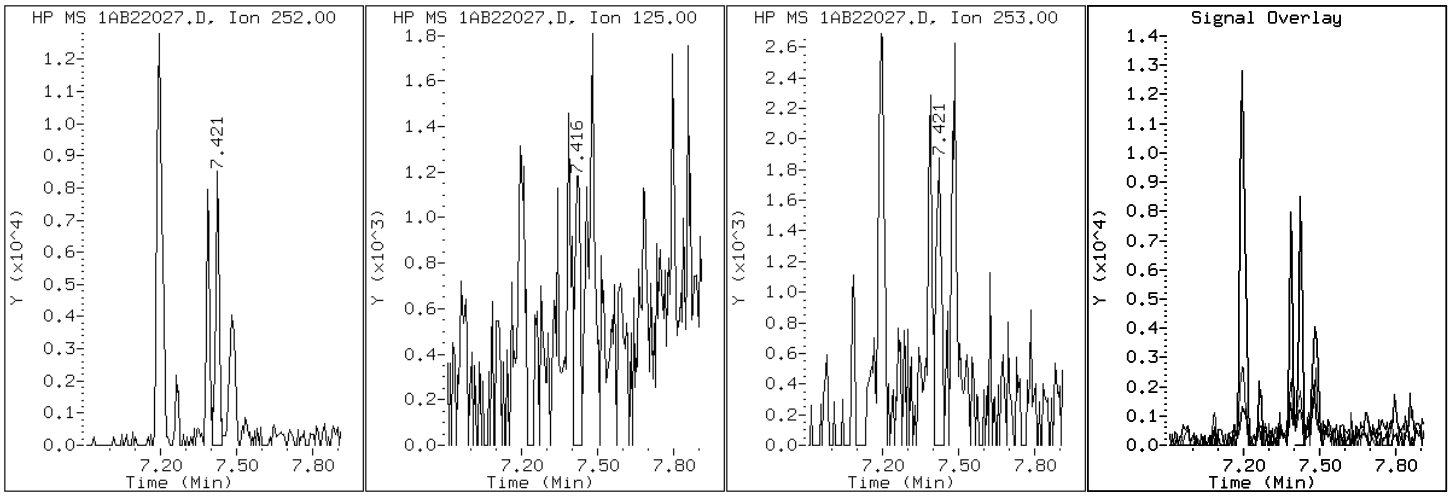
Client ID: FM0160K-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

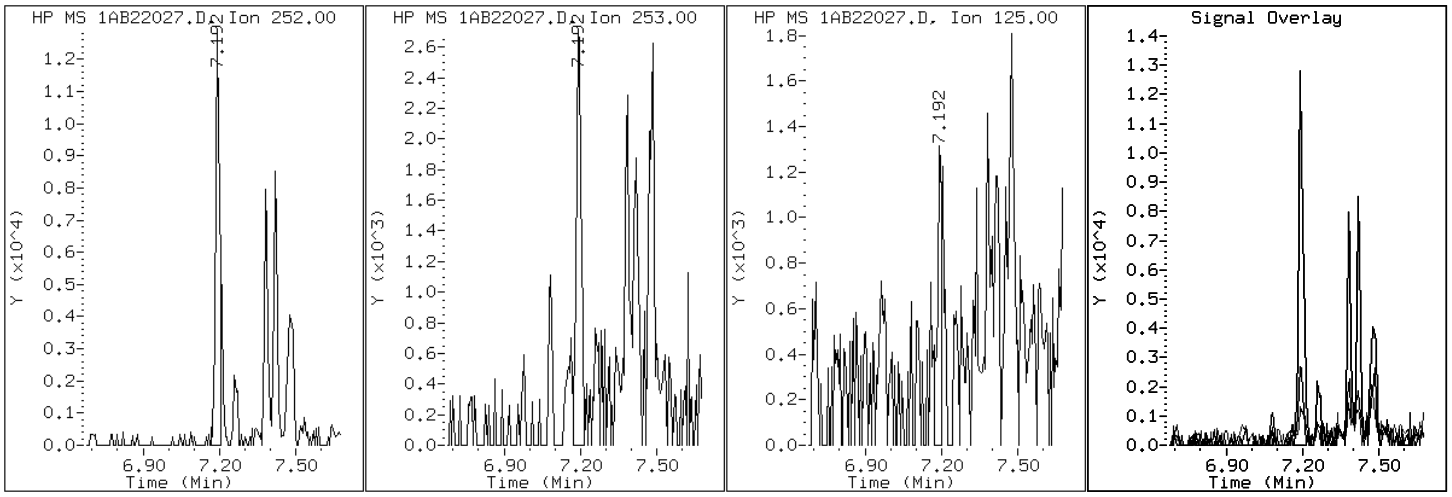
Client ID: FM0160K-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

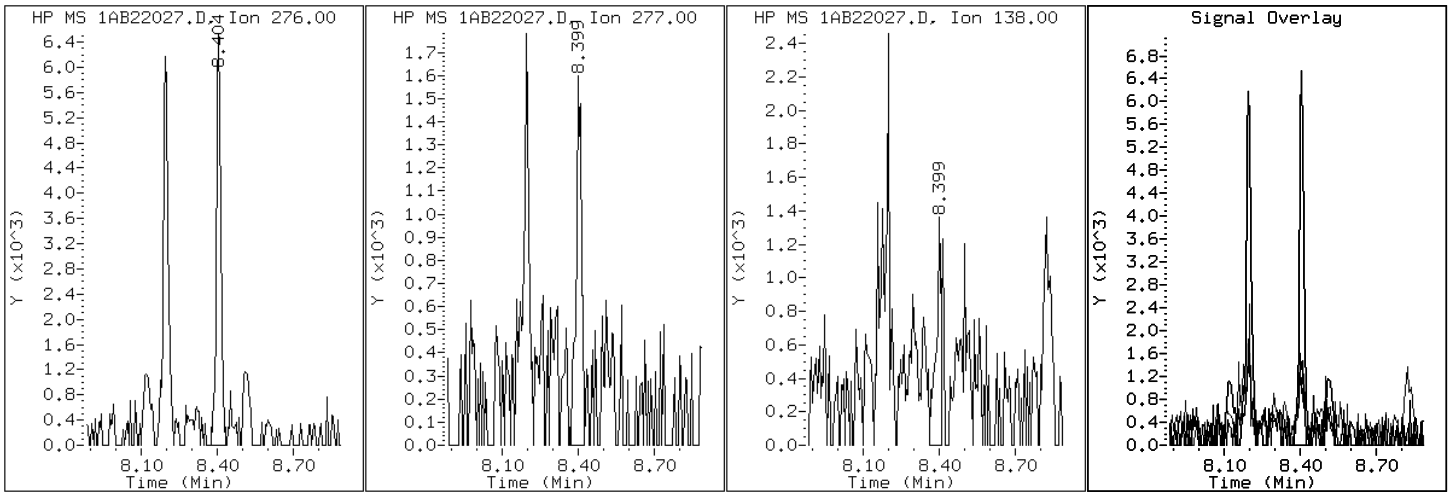
Client ID: FM0160K-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a

Operator: SCC

26 Benzo(g,h,i)perylene



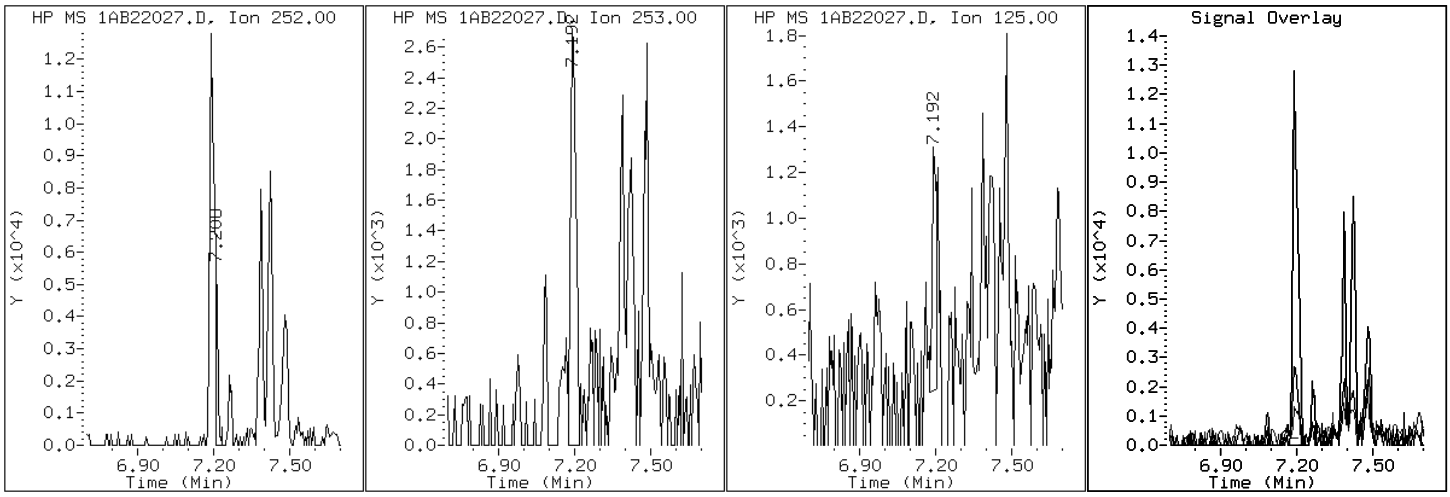
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

21 Benzo(k)fluoranthene



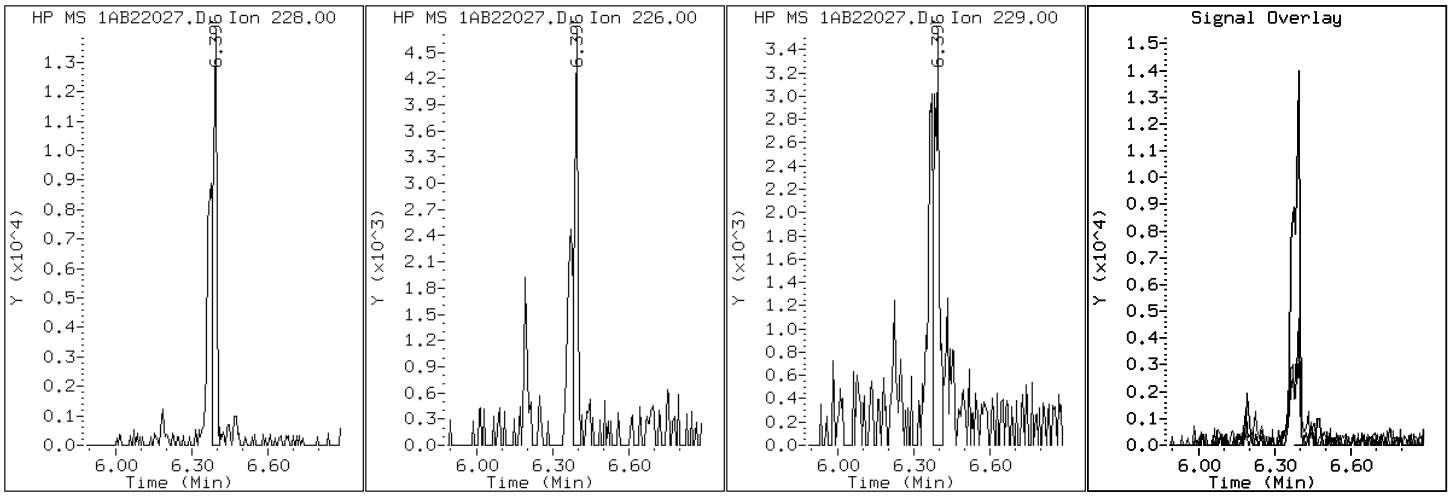
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

19 Chrysene



Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

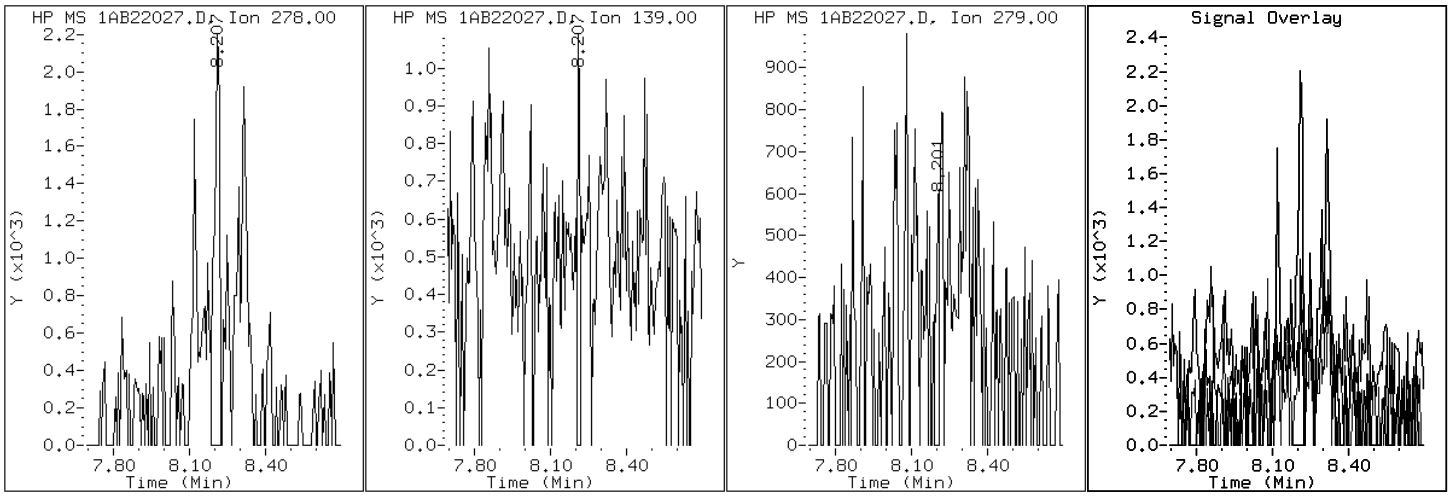
Client ID: FM0160K-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a

Operator: SCC

25 Dibenzo(a,h)anthracene



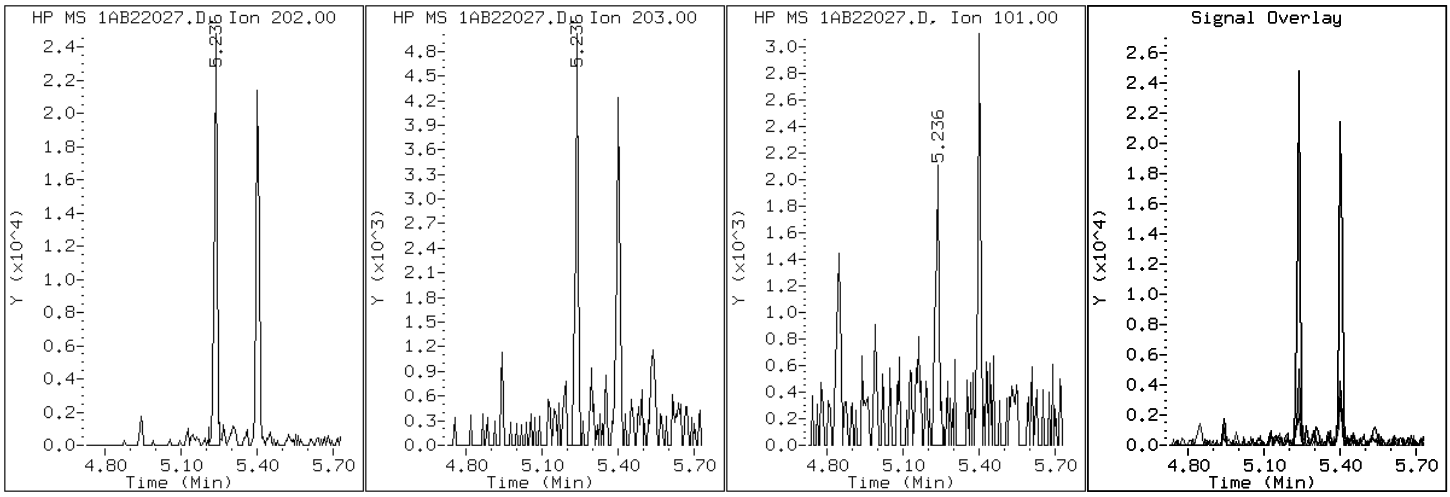
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

15 Fluoranthene



Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

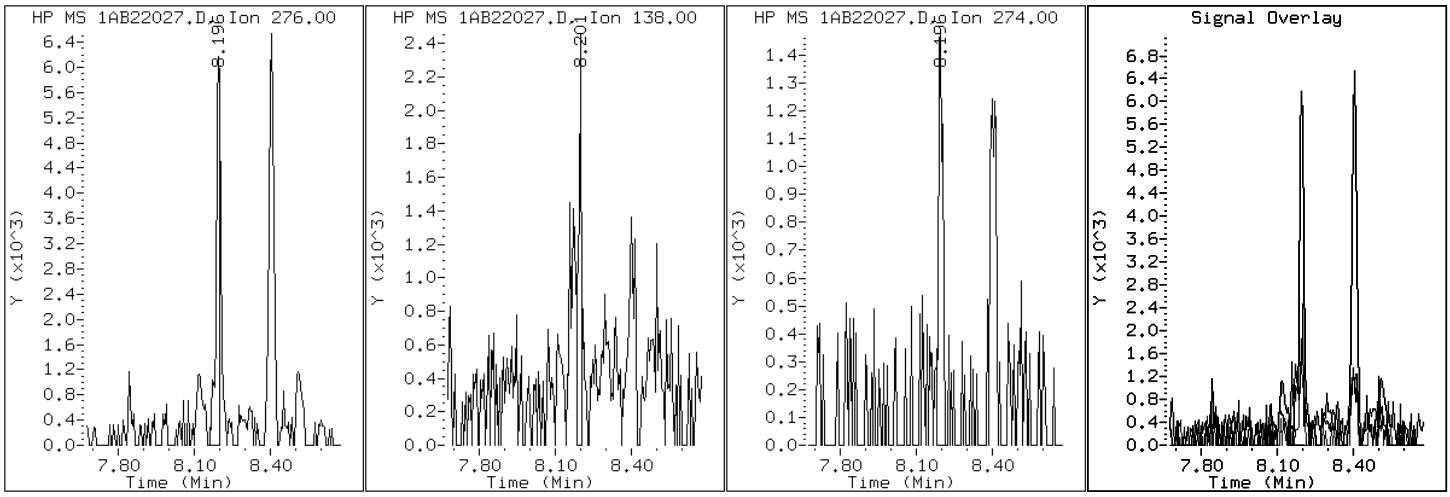
Client ID: FM0160K-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a

Operator: SCC

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



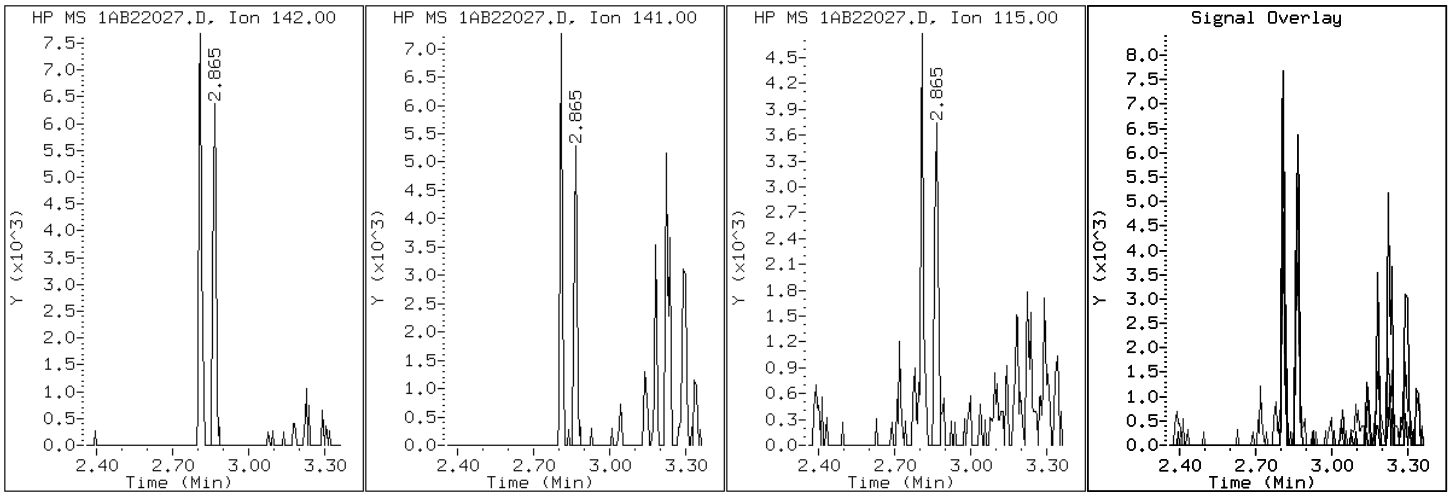
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

4 1-Methylnaphthalene



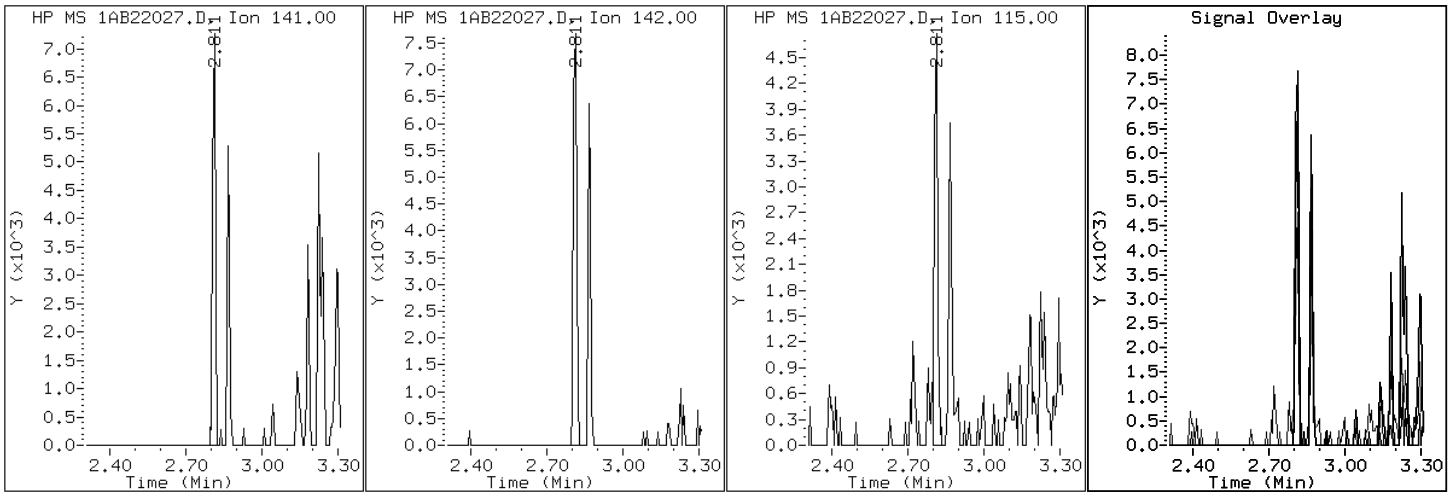
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

3 2-Methylnaphthalene



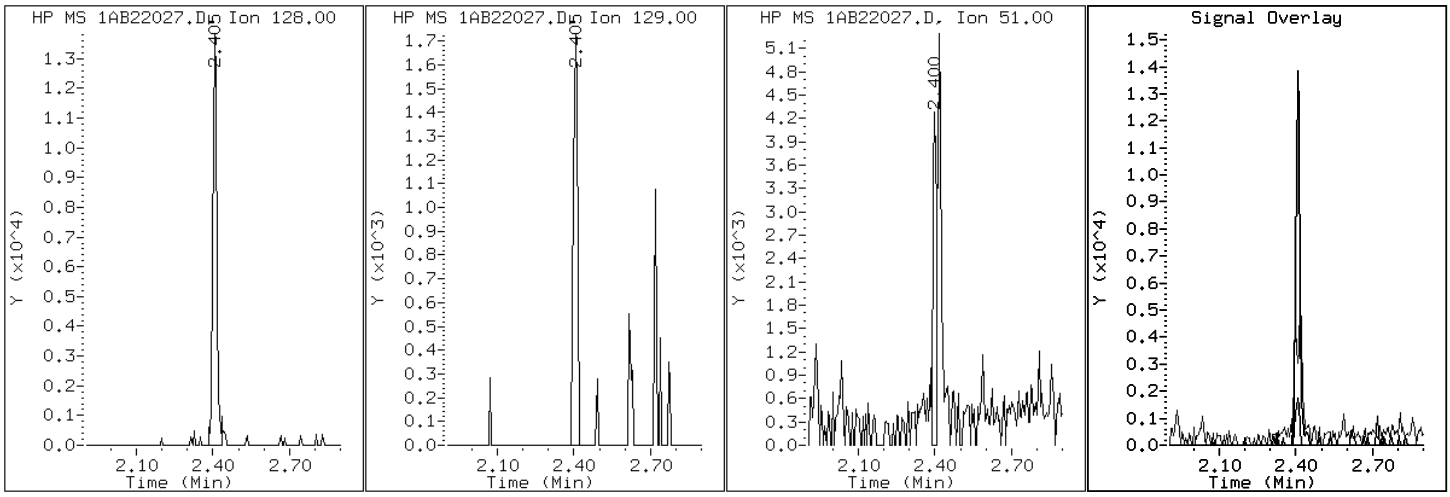
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

2 Naphthalene



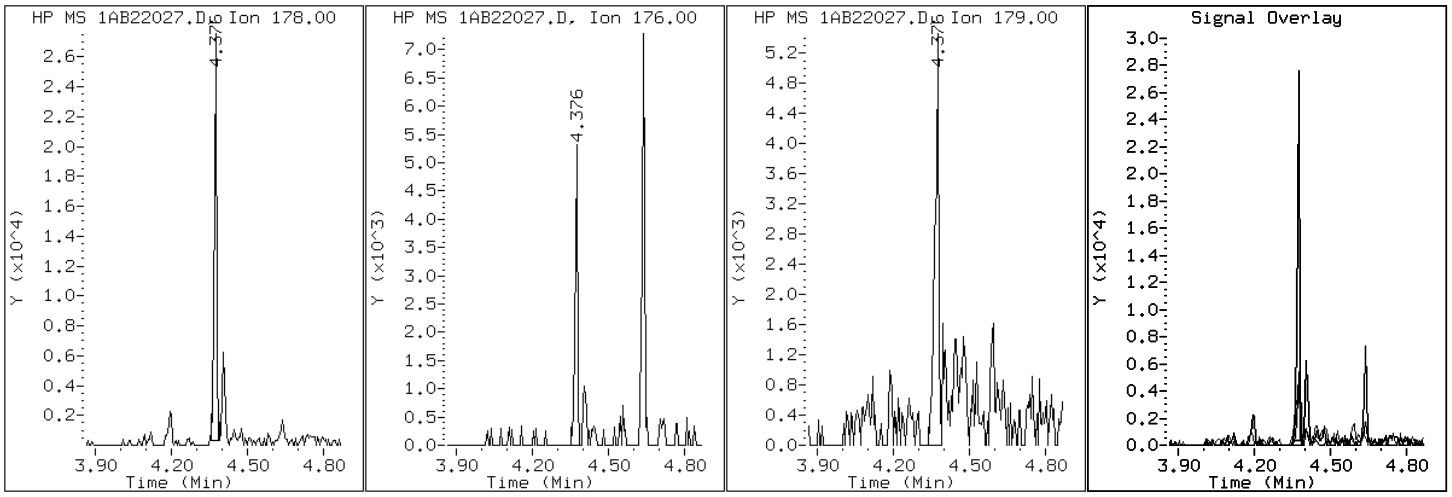
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

11 Phenanthrene



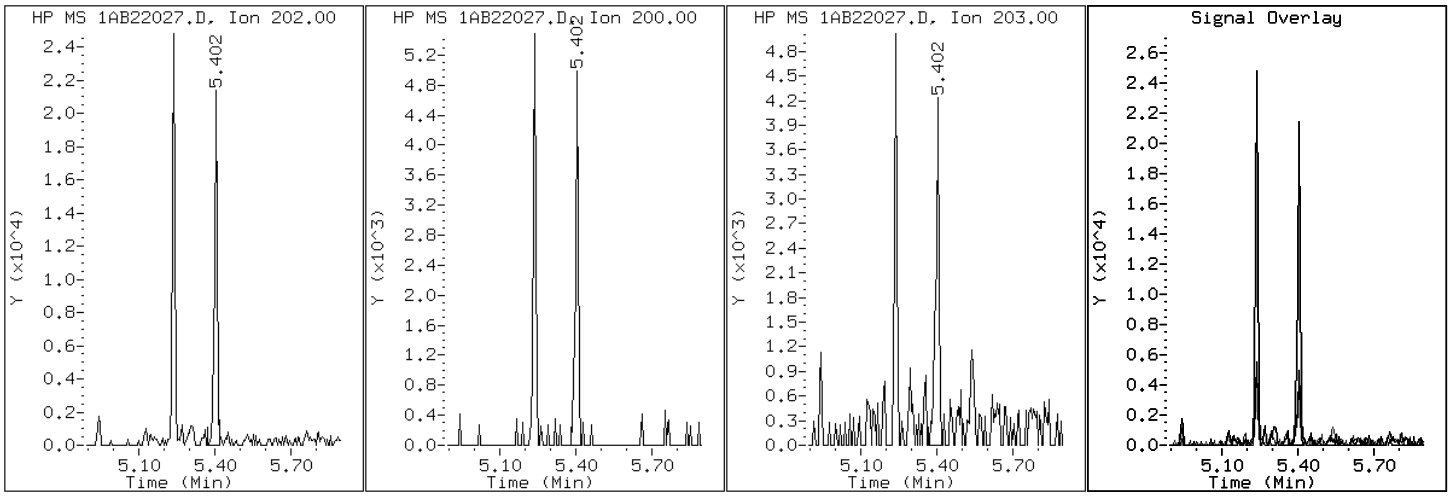
Data File: 1AB22027.D

Date: 22-FEB-2013 17:10

Client ID: FM0160K-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22027.D
Inj. Date and Time: 22-FEB-2013 17:10
Instrument ID: BSMA5973.i
Client ID: FM0160K-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

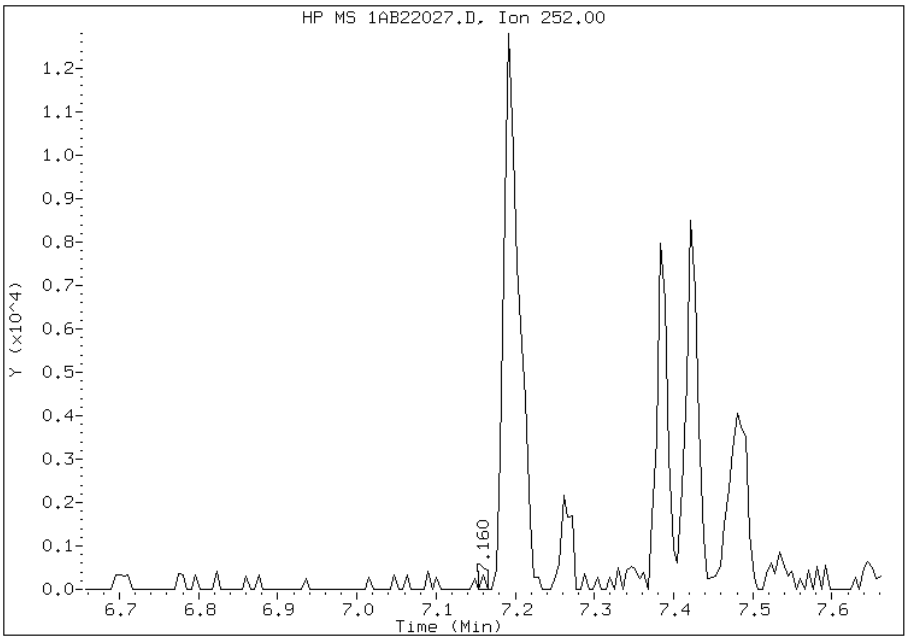
Processing Integration Results

RT: 7.16

Response: 102

Amount: 0

Conc: 0



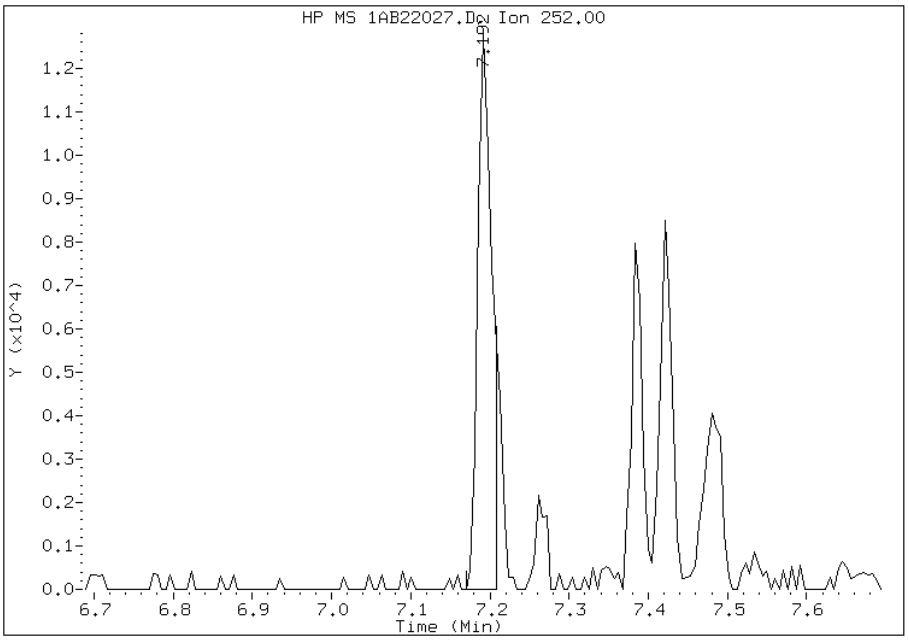
Manual Integration Results

RT: 7.19

Response: 15520

Amount: 1

Conc: 43



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22027.D
Inj. Date and Time: 22-FEB-2013 17:10
Instrument ID: BSMA5973.i
Client ID: FM0160K-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

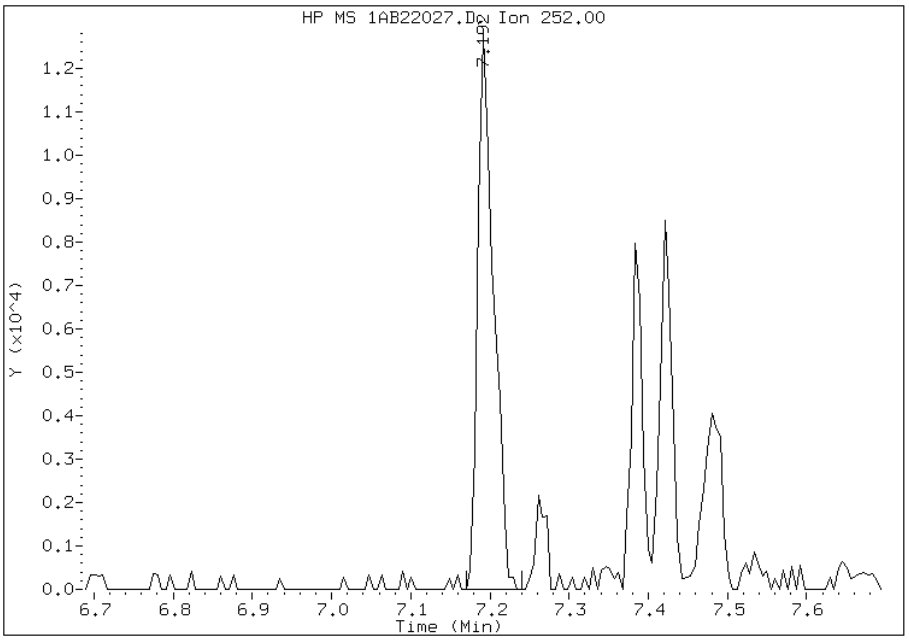
Processing Integration Results

RT: 7.19

Response: 17615

Amount: 1

Conc: 48



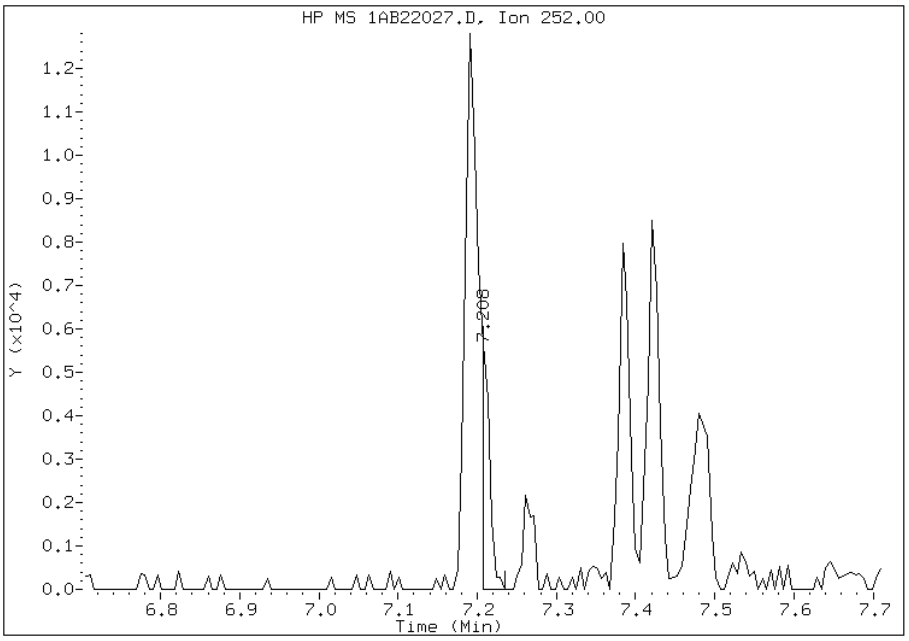
Manual Integration Results

RT: 7.21

Response: 3905

Amount: 0

Conc: 11



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22027.D
Inj. Date and Time: 22-FEB-2013 17:10
Instrument ID: BSMA5973.i
Client ID: FM0160K-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

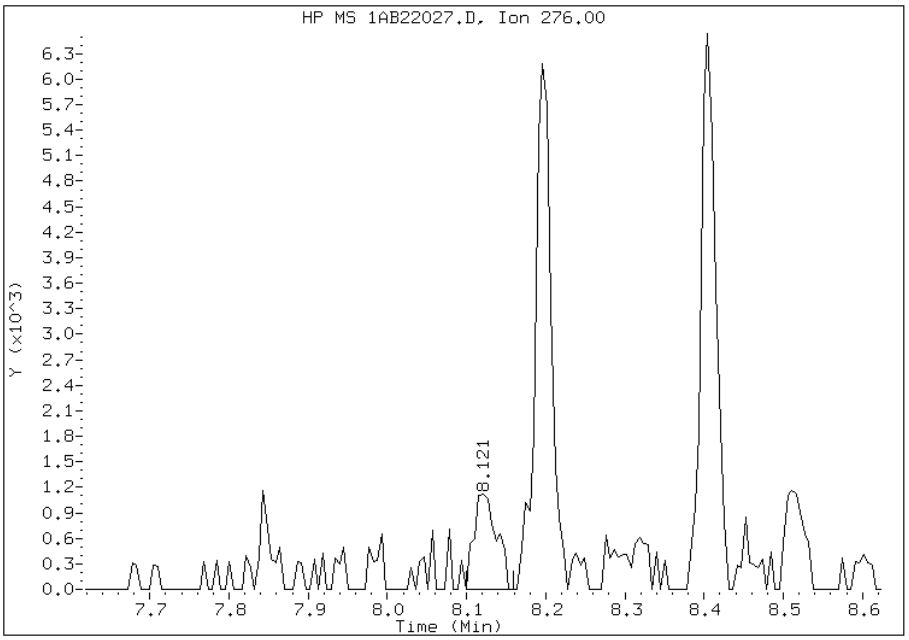
Processing Integration Results

RT: 8.12

Response: 2209

Amount: 0

Conc: 8



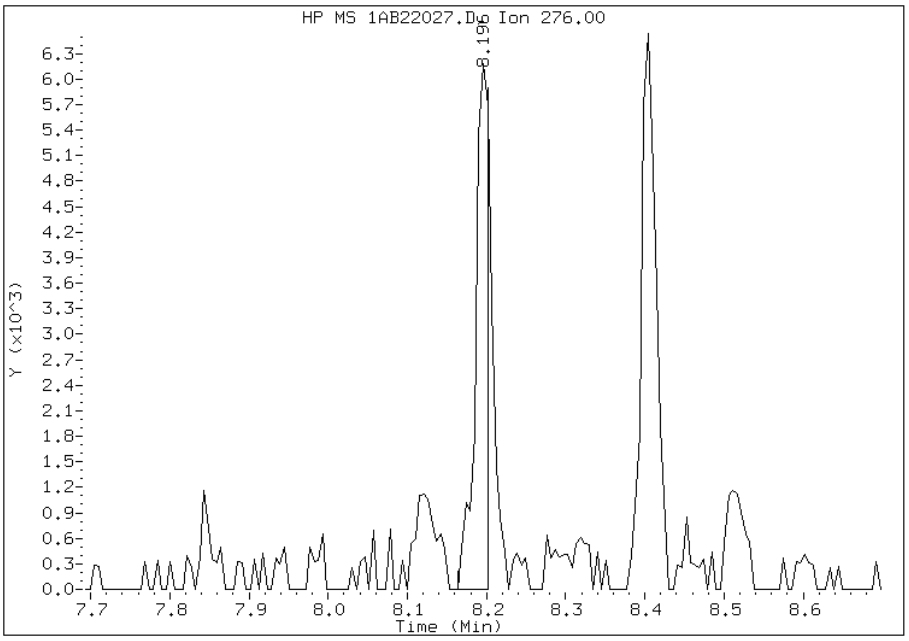
Manual Integration Results

RT: 8.20

Response: 6874

Amount: 0

Conc: 24



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0160K-CSD | Lab Sample ID: 680-87496-62

Matrix: Solid | Lab File ID: 1AB22021.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:11

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 14.96(g) | Date Analyzed: 02/22/2013 15:39

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

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

% Moisture: 5.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	7.4	J	42	5.3
120-12-7	Anthracene	13		8.9	4.4
56-55-3	Benzo[a]anthracene	55		8.5	4.1
50-32-8	Benzo[a]pyrene	35		11	5.5
205-99-2	Benzo[b]fluoranthene	56		13	6.5
191-24-2	Benzo[g,h,i]perylene	41		21	4.7
207-08-9	Benzo[k]fluoranthene	21		8.5	3.8
218-01-9	Chrysene	52		9.5	4.8
53-70-3	Dibenz(a,h)anthracene	18	J	21	4.3
206-44-0	Fluoranthene	53		21	4.2
86-73-7	Fluorene	21	U	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	33		21	7.5
90-12-0	1-Methylnaphthalene	33	J	42	4.7
91-57-6	2-Methylnaphthalene	40	J	42	7.5
91-20-3	Naphthalene	47		42	4.7
85-01-8	Phenanthrene	48		8.5	4.1
129-00-0	Pyrene	60		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22021.D
Lab Smp Id: 680-87496-A-62-A Client Smp ID: FM0160K-CSD
Inj Date : 22-FEB-2013 15:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-62-a
Misc Info : 680-87496-A-62-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 21
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	14.960	Weight Extracted
M	5.357	% 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	2.395	2.397	(1.000)	980135	40.0000	
* 6 Acenaphthene-d10	164	3.421	3.417	(1.000)	807895	40.0000	
* 10 Phenanthrene-d10	188	4.367	4.352	(1.000)	1127755	40.0000	
$ 14 o-Terphenyl	230	4.639	4.635	(1.062)	115232	7.02205	495.9576
* 18 Chrysene-d12	240	6.380	6.366	(1.000)	652372	40.0000	
* 23 Perylene-d12	264	7.481	7.456	(1.000)	901198	40.0000	(H)
2 Naphthalene	128	2.406	2.402	(1.004)	15623	0.66150	46.7207
3 2-Methylnaphthalene	141	2.812	2.808	(1.174)	6834	0.56052	39.5886
4 1-Methylnaphthalene	142	2.865	2.861	(1.196)	6285	0.46292	32.6952
5 Acenaphthylene	152	3.335	3.332	(0.975)	3160	0.10476	7.3987
11 Phenanthrene	178	4.377	4.368	(1.002)	19211	0.68532	48.4031
12 Anthracene	178	4.409	4.400	(1.010)	5194	0.19075	13.4725
13 Carbazole	167	4.564	4.555	(1.045)	2994	0.12456	8.7974
15 Fluoranthene	202	5.237	5.228	(1.199)	21182	0.75574	53.3767

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.403	5.394	(0.847)	16312	0.85247	60.2087
17 Benzo(a)anthracene	228	6.370	6.355	(0.998)	15108	0.77559	54.7789
19 Chrysene	228	6.397	6.387	(1.002)	12904	0.74070	52.3144
20 Benzo(b)fluoranthene	252	7.193	7.178	(0.961)	18151	0.79452	56.1156(MH)
21 Benzo(k)fluoranthene	252	7.209	7.199	(0.964)	6775	0.29477	20.8194(M)
22 Benzo(a)pyrene	252	7.422	7.408	(0.992)	10259	0.49036	34.6332(H)
24 Indeno(1,2,3-cd)pyrene	276	8.202	8.177	(1.096)	8393	0.46761	33.0265(MH)
25 Dibenzo(a,h)anthracene	278	8.202	8.193	(1.096)	4674	0.24989	17.6495(MH)
26 Benzo(g,h,i)perylene	276	8.405	8.385	(1.124)	11101	0.58149	41.0700(MH)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB22021.D

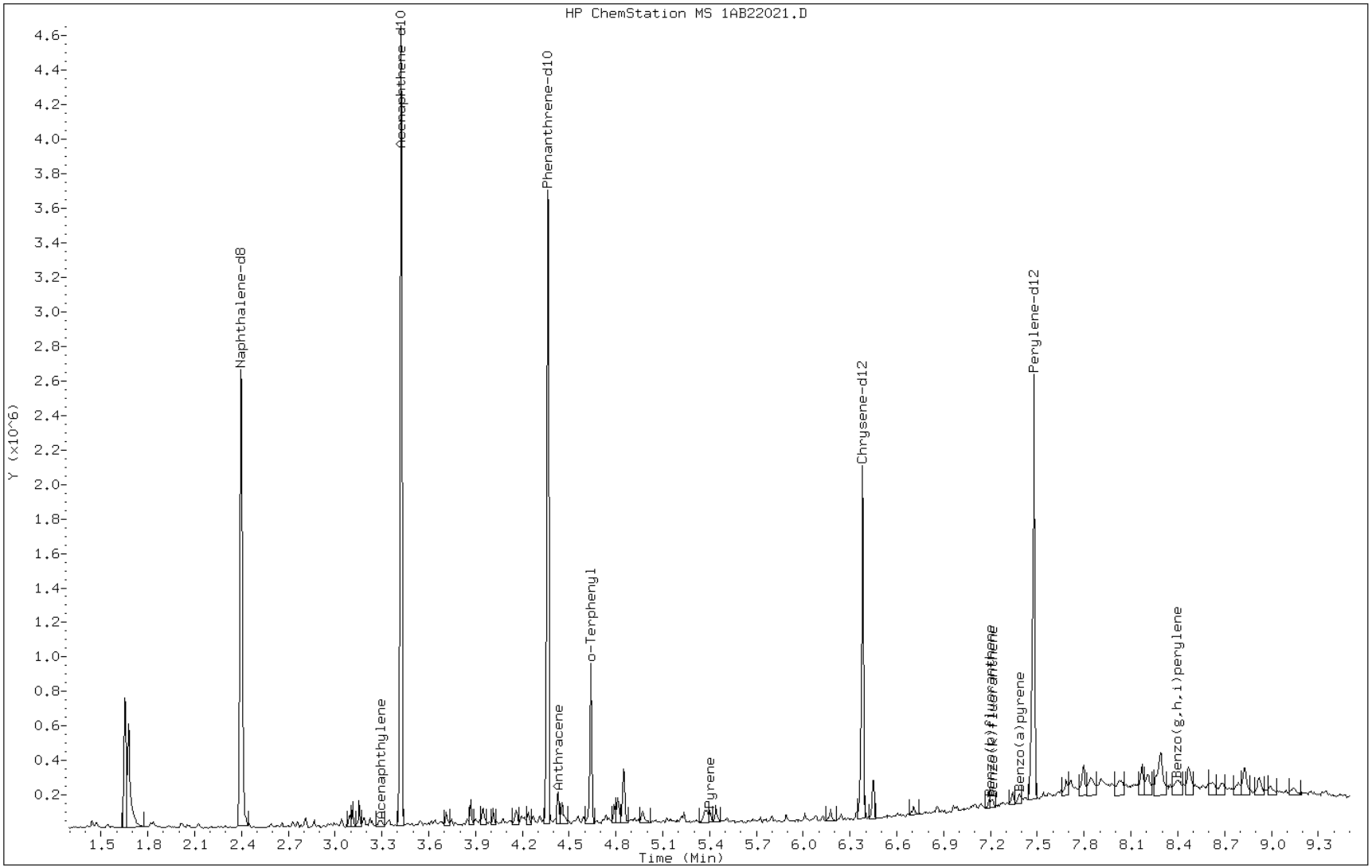
Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD

Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a

Operator: SCC



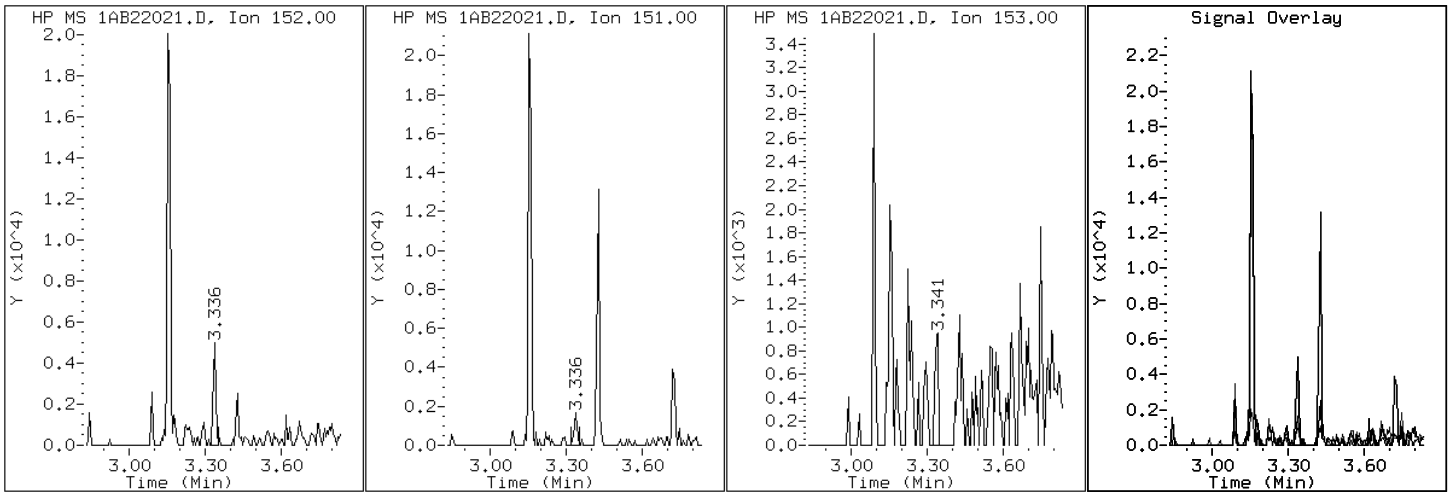
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

5 Acenaphthylene



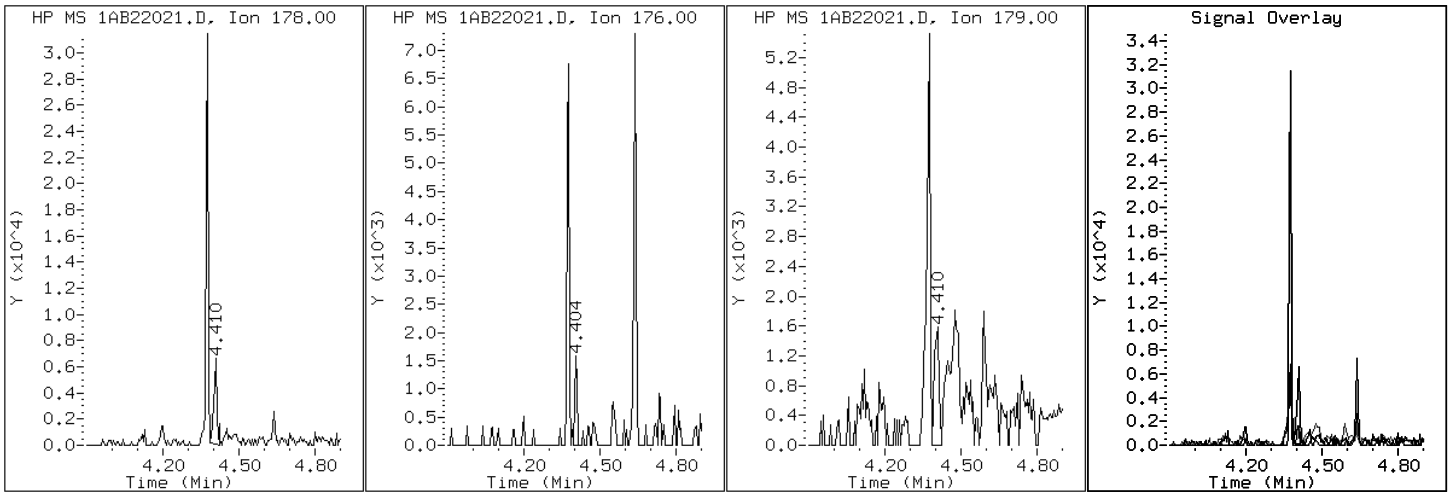
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

12 Anthracene



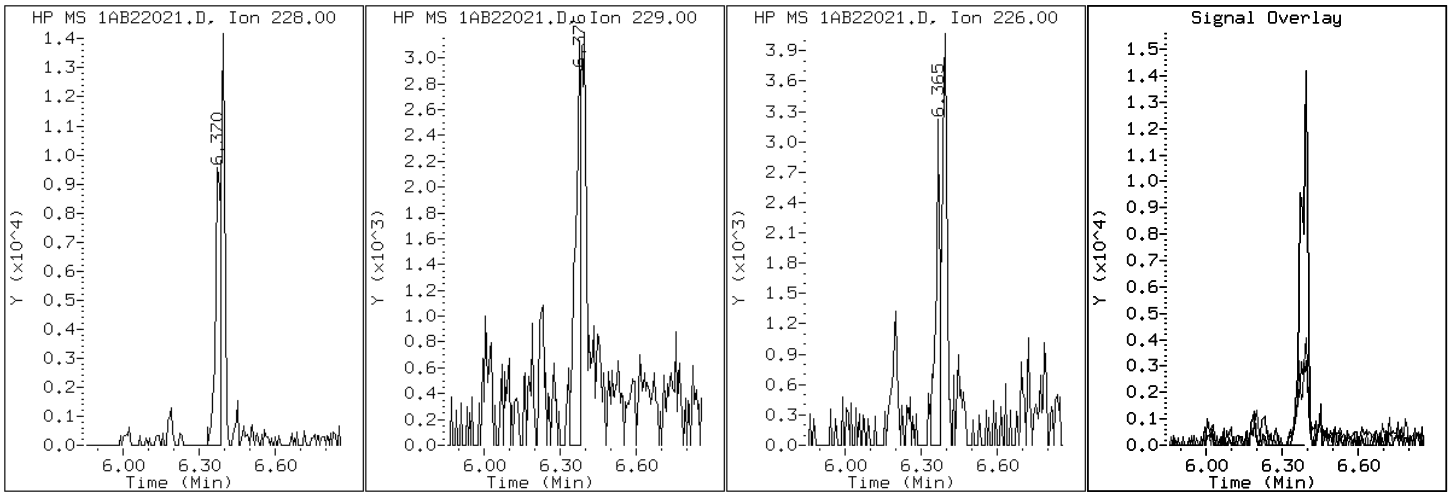
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

17 Benzo(a)anthracene



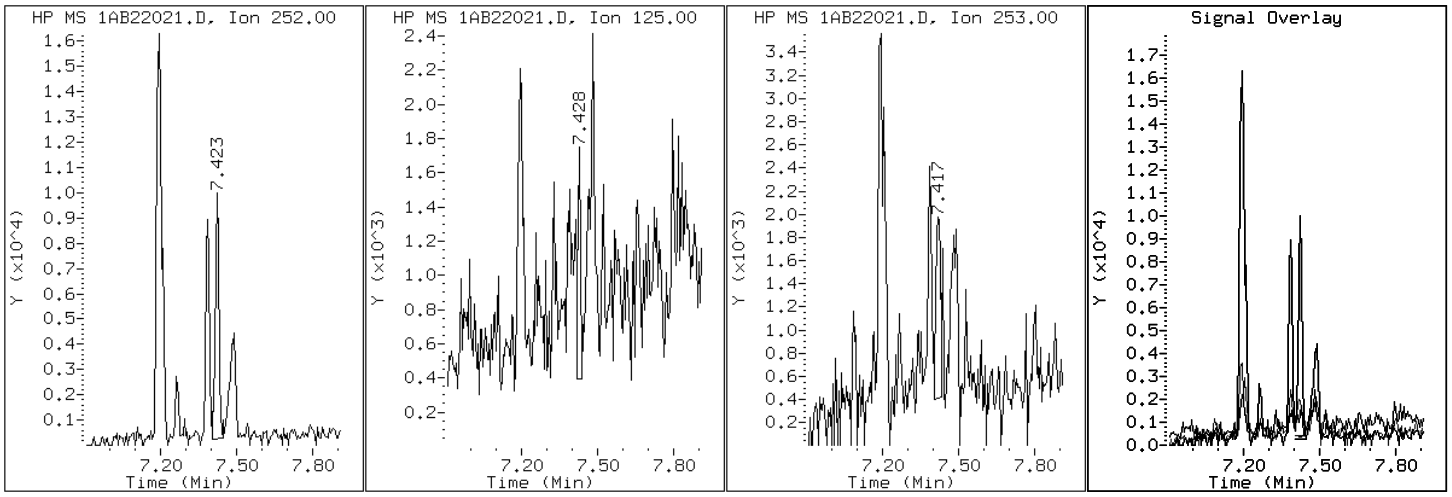
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

22 Benzo(a)pyrene



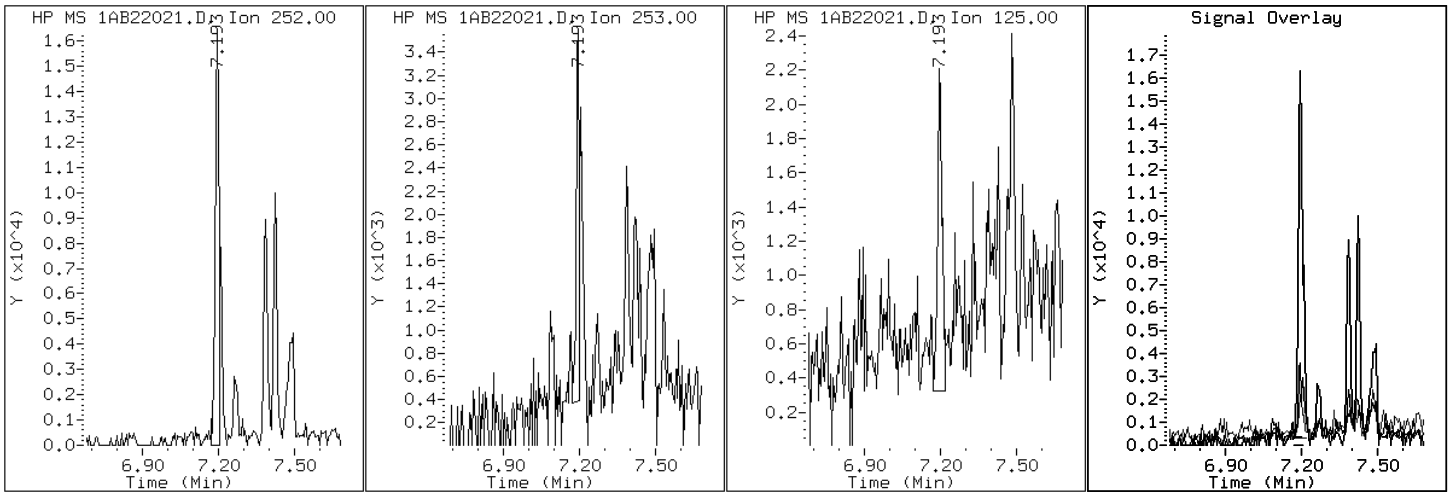
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

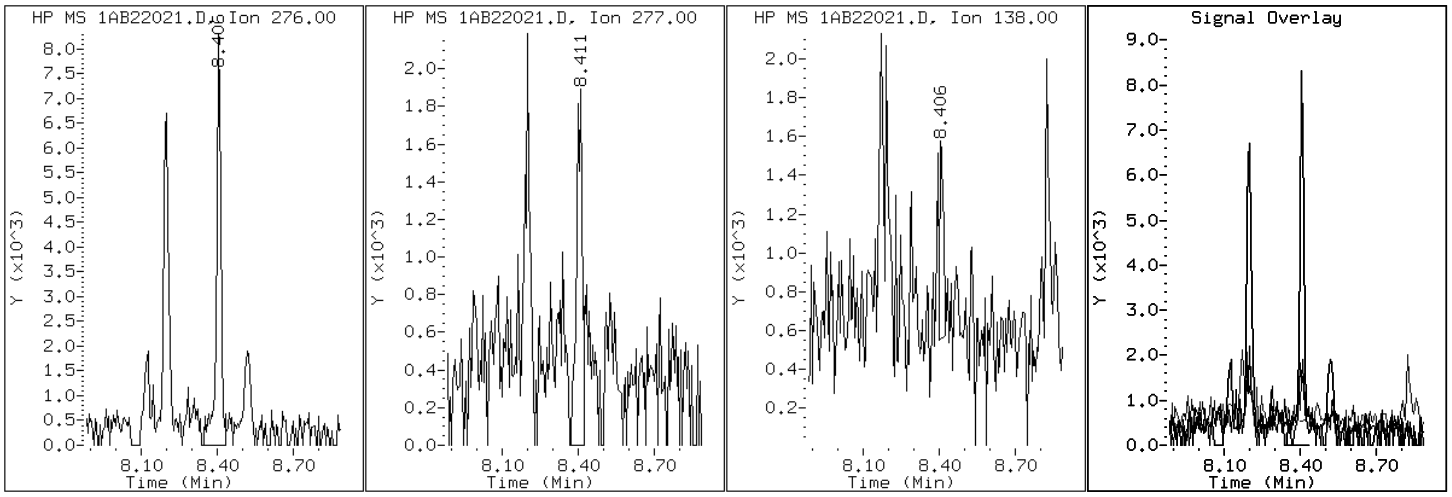
Client ID: FM0160K-CSD

Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a

Operator: SCC

26 Benzo(g,h,i)perylene



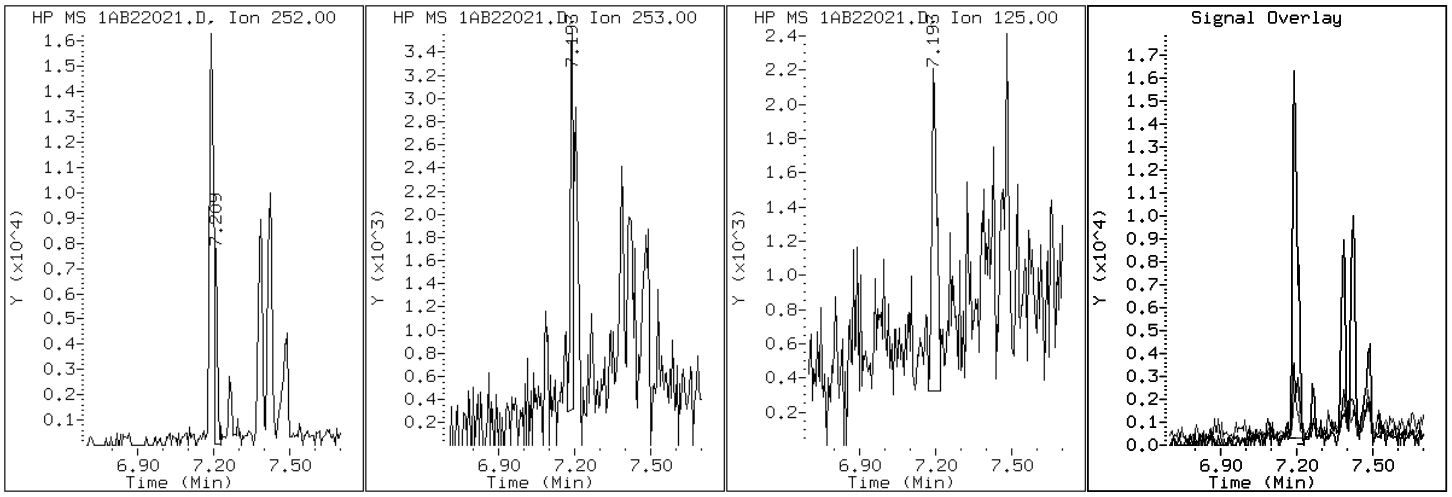
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

21 Benzo(k)fluoranthene



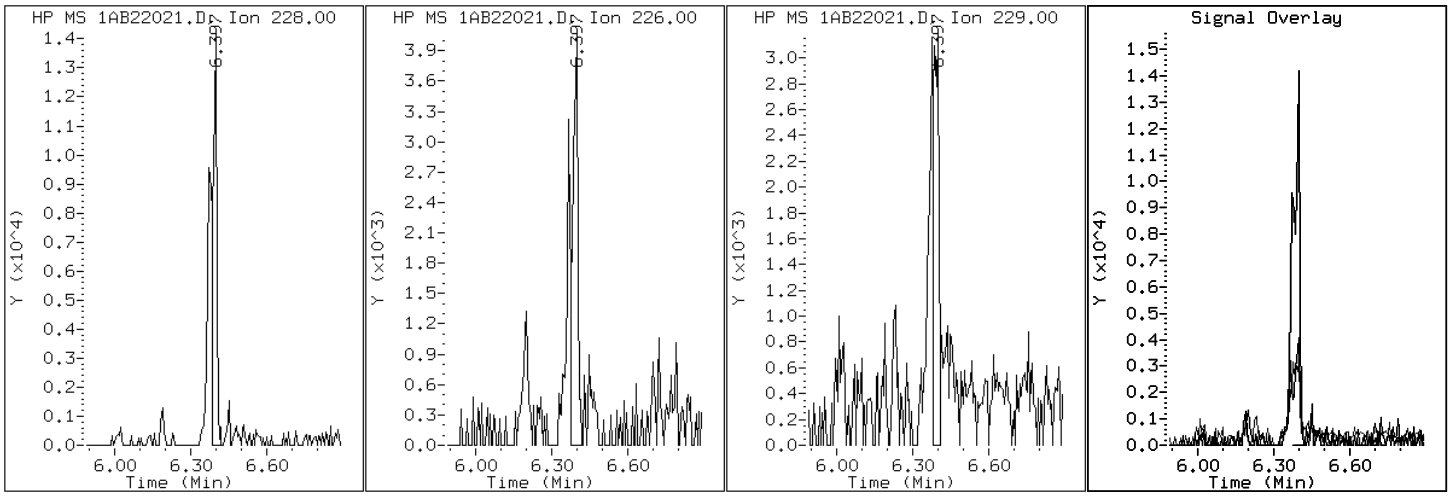
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

19 Chrysene



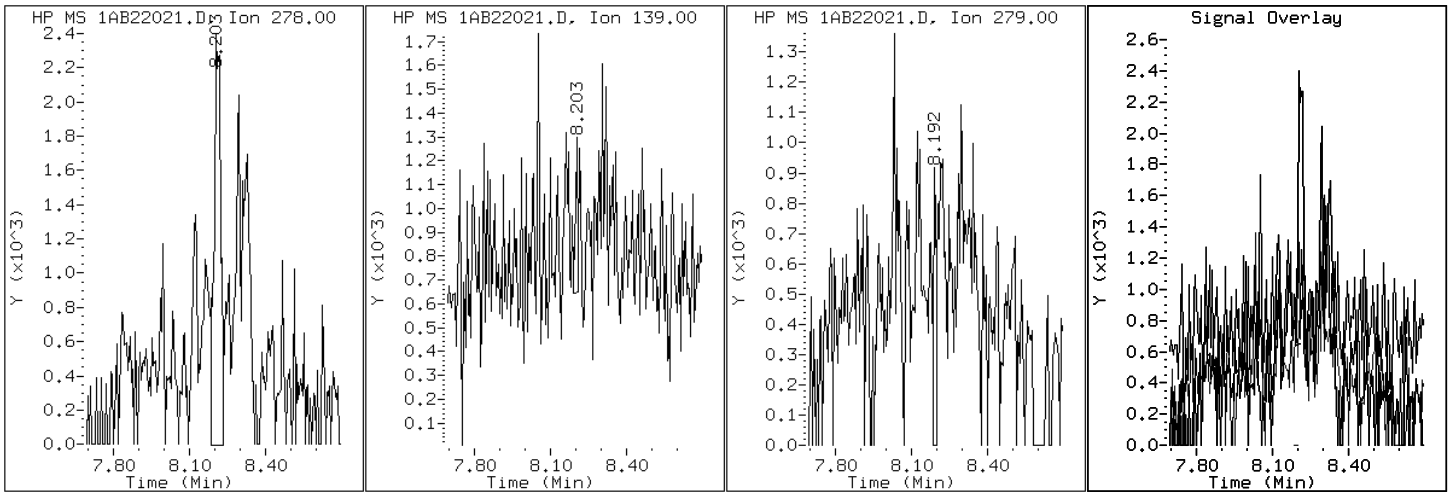
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

25 Dibenzo(a,h)anthracene



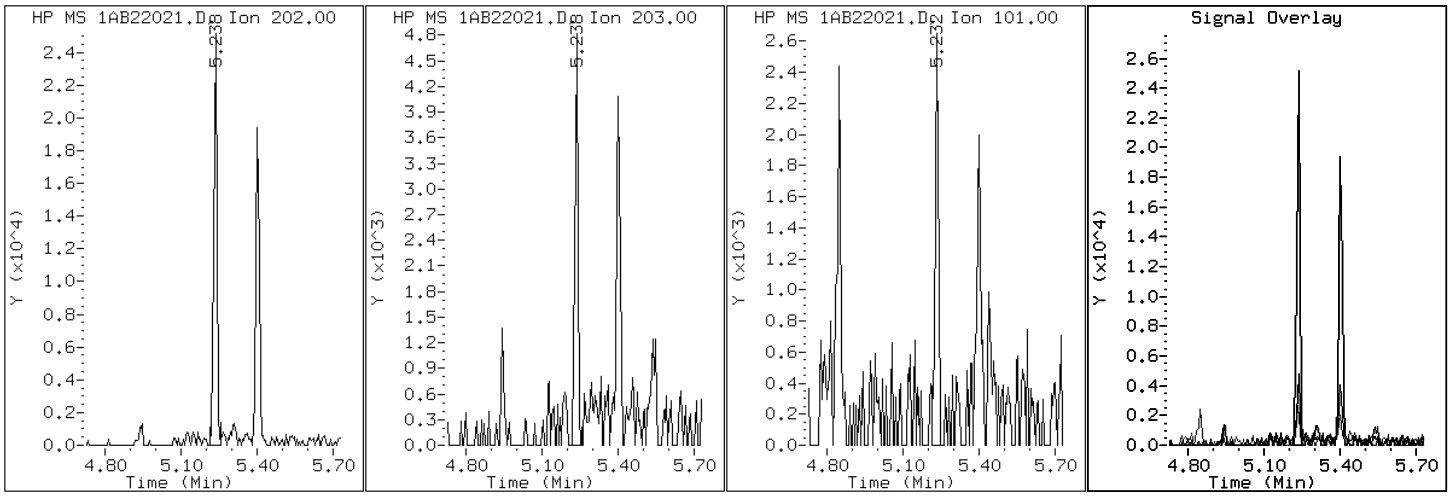
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

15 Fluoranthene



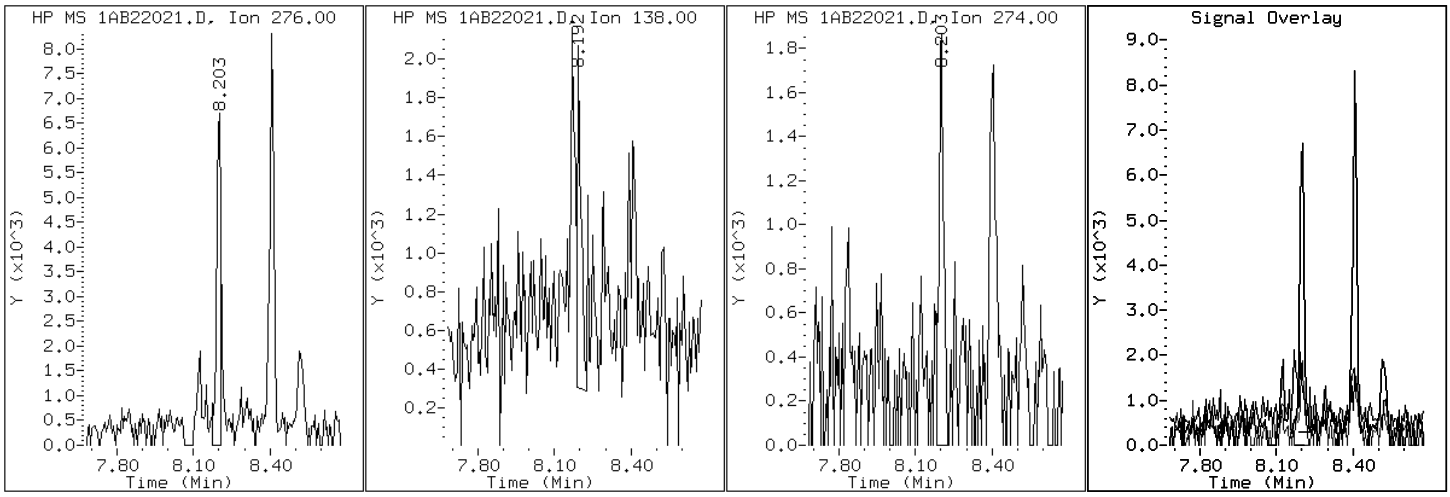
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

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



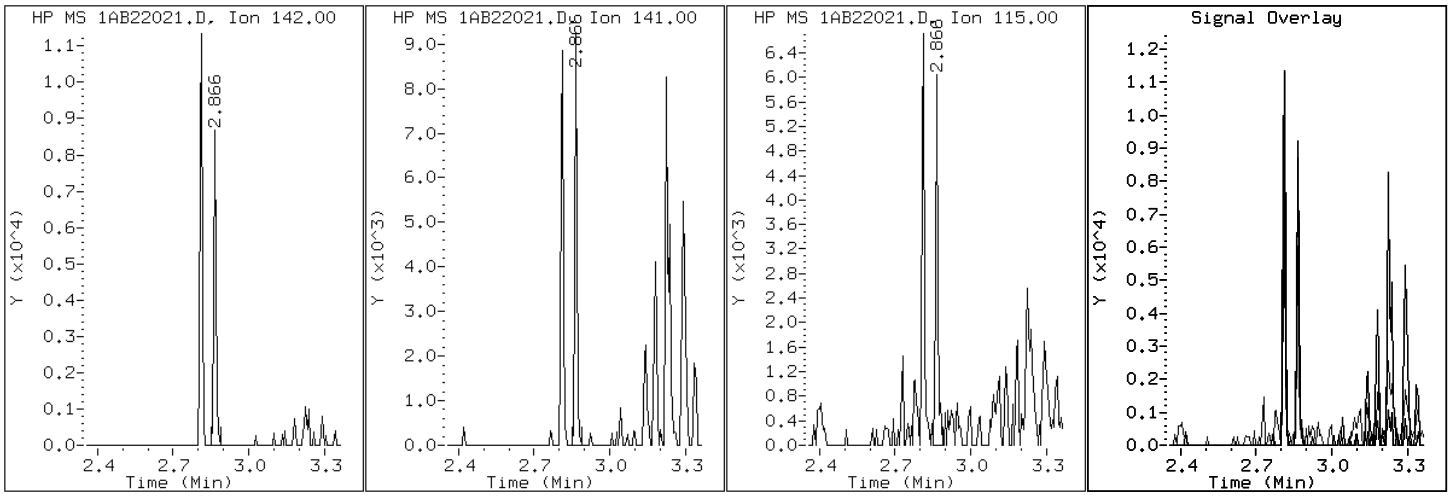
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

4 1-Methylnaphthalene



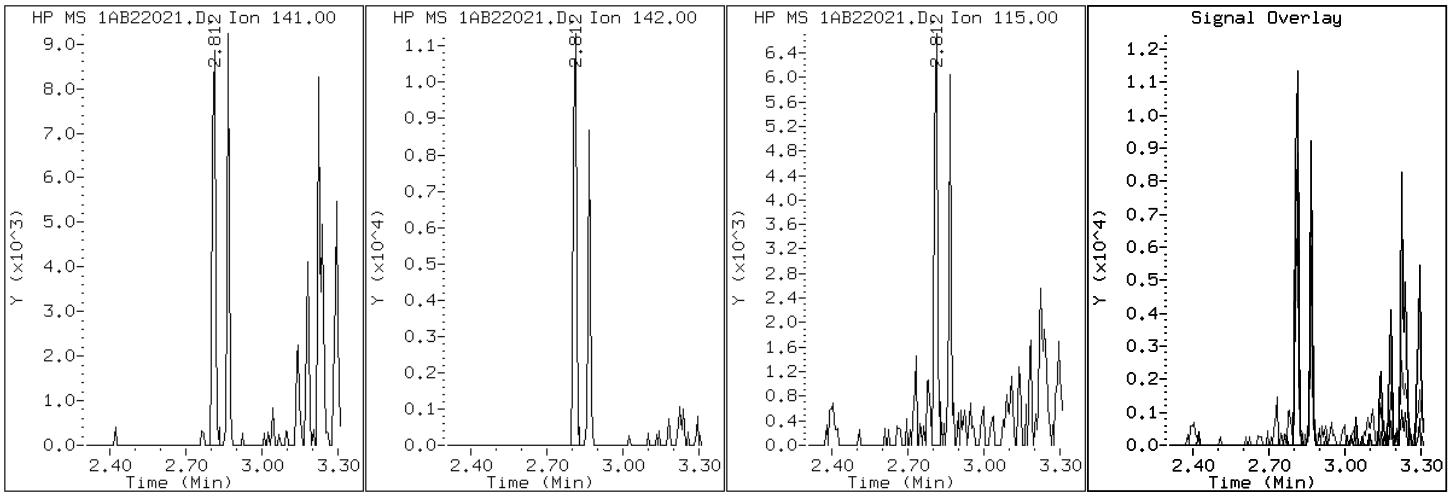
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

3 2-Methylnaphthalene



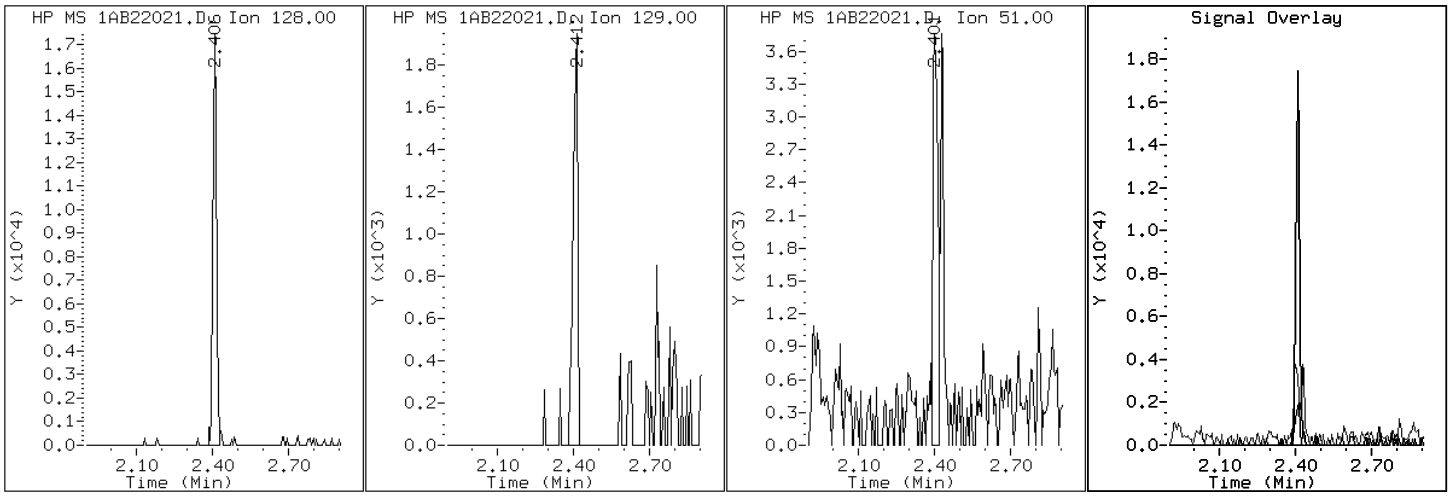
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

2 Naphthalene



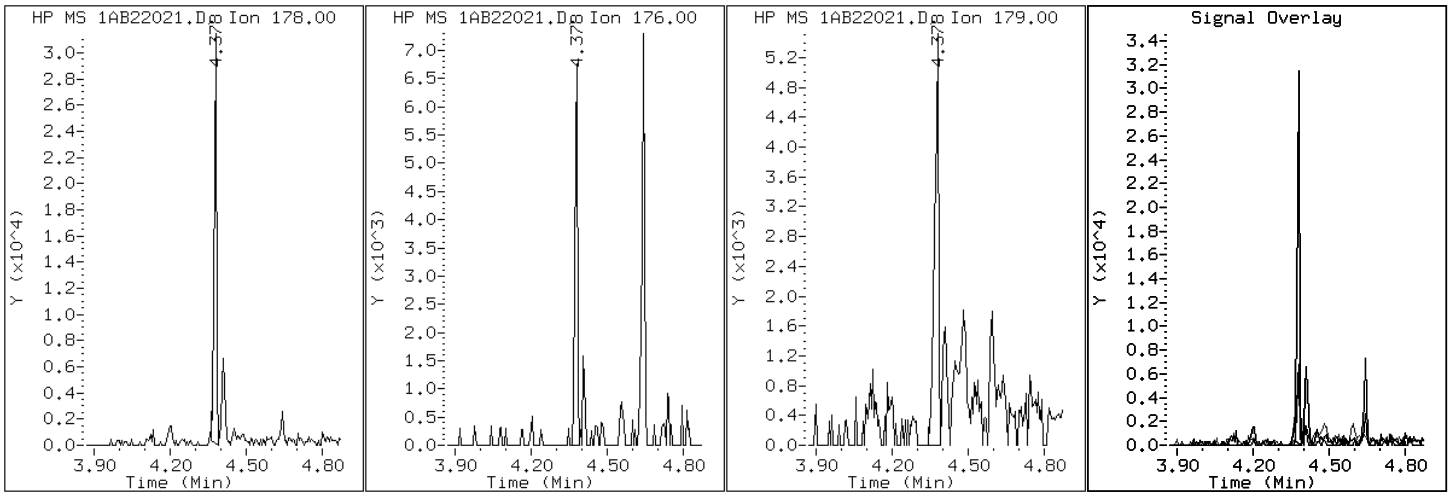
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

11 Phenanthrene



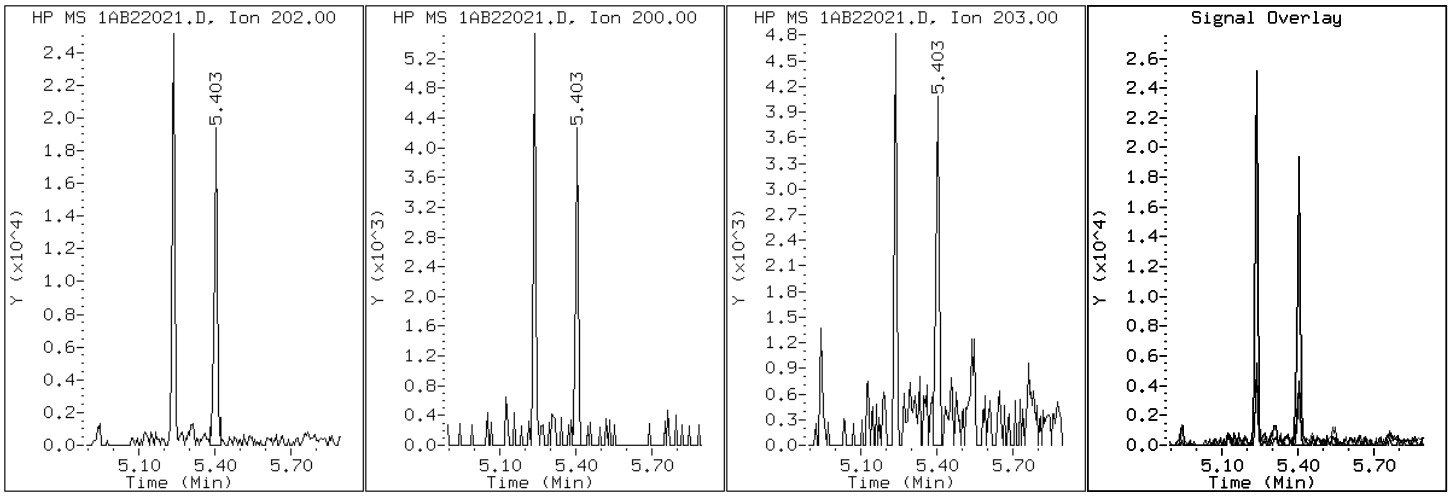
Data File: 1AB22021.D

Date: 22-FEB-2013 15:39

Client ID: FM0160K-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-62-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22021.D
Inj. Date and Time: 22-FEB-2013 15:39
Instrument ID: BSMA5973.i
Client ID: FM0160K-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

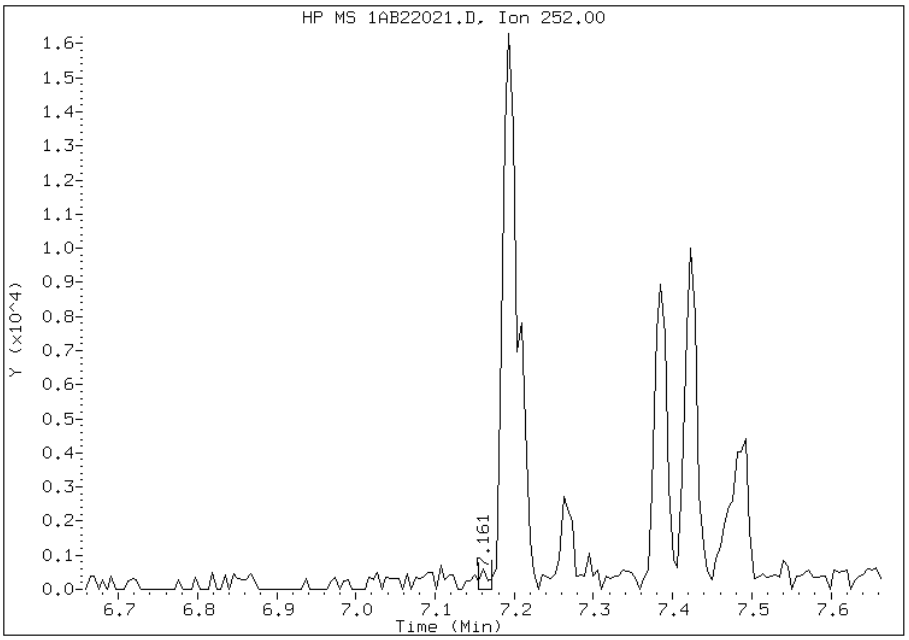
Processing Integration Results

RT: 7.16

Response: 455

Amount: 0

Conc: 1



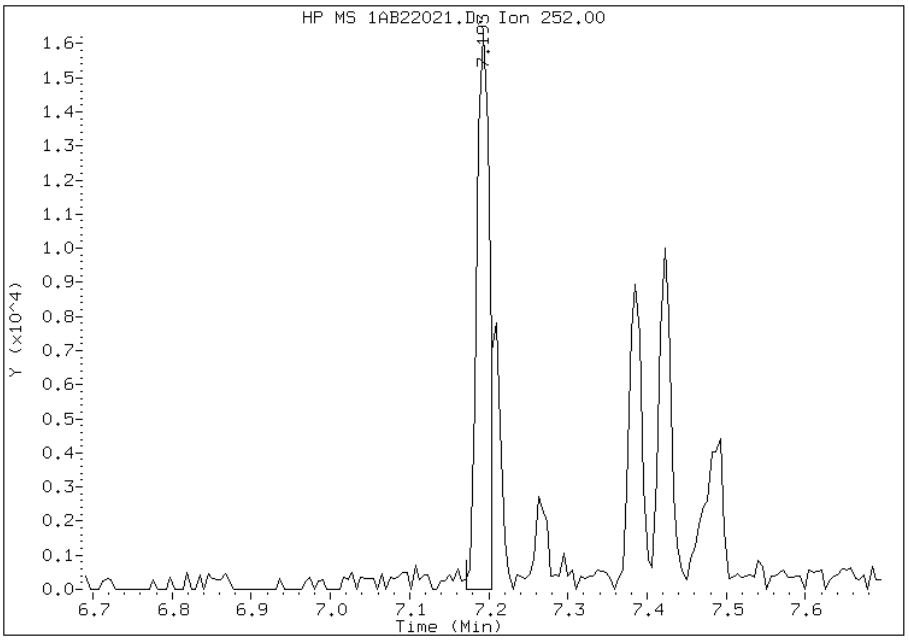
Manual Integration Results

RT: 7.19

Response: 18151

Amount: 1

Conc: 56



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22021.D
Inj. Date and Time: 22-FEB-2013 15:39
Instrument ID: BSMA5973.i
Client ID: FM0160K-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/25/2013

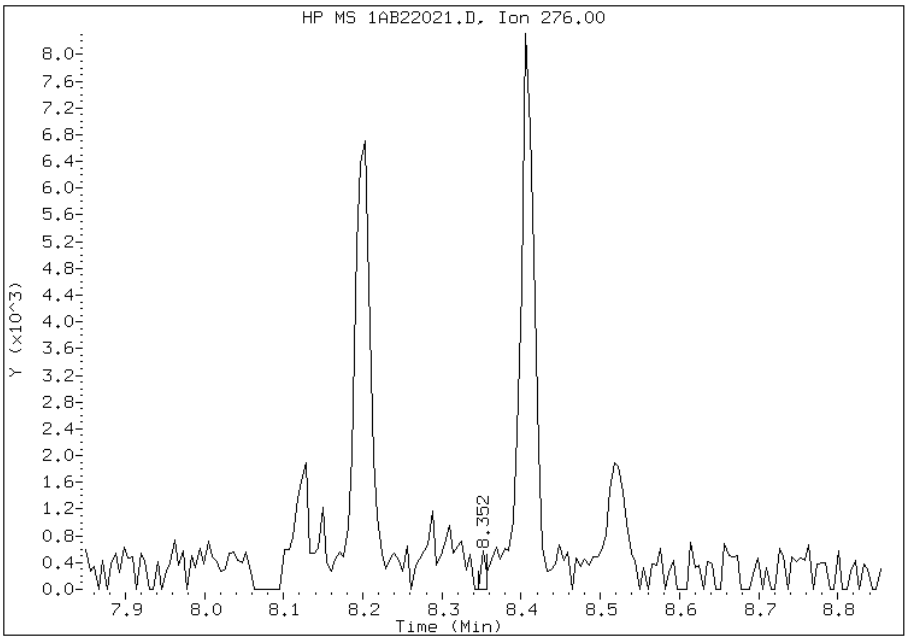
Processing Integration Results

RT: 8.35

Response: 267

Amount: 0

Conc: 1



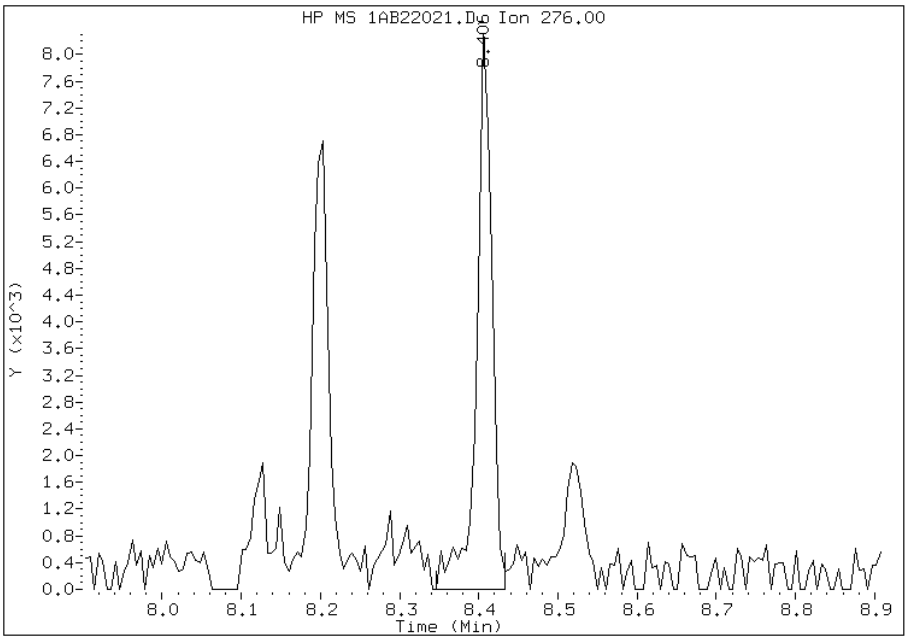
Manual Integration Results

RT: 8.41

Response: 11101

Amount: 1

Conc: 41



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22021.D
Inj. Date and Time: 22-FEB-2013 15:39
Instrument ID: BSMA5973.i
Client ID: FM0160K-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

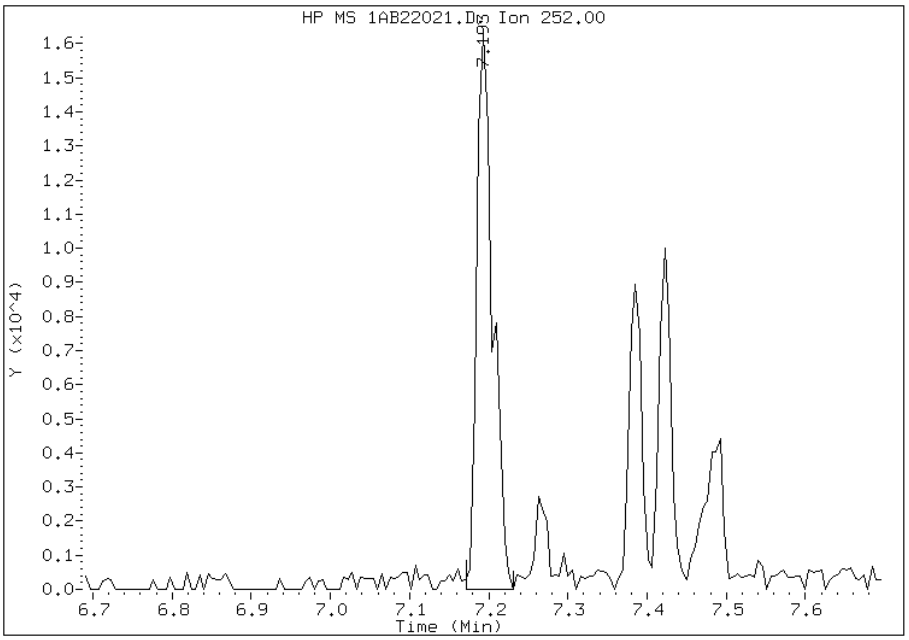
Processing Integration Results

RT: 7.19

Response: 22807

Amount: 1

Conc: 70



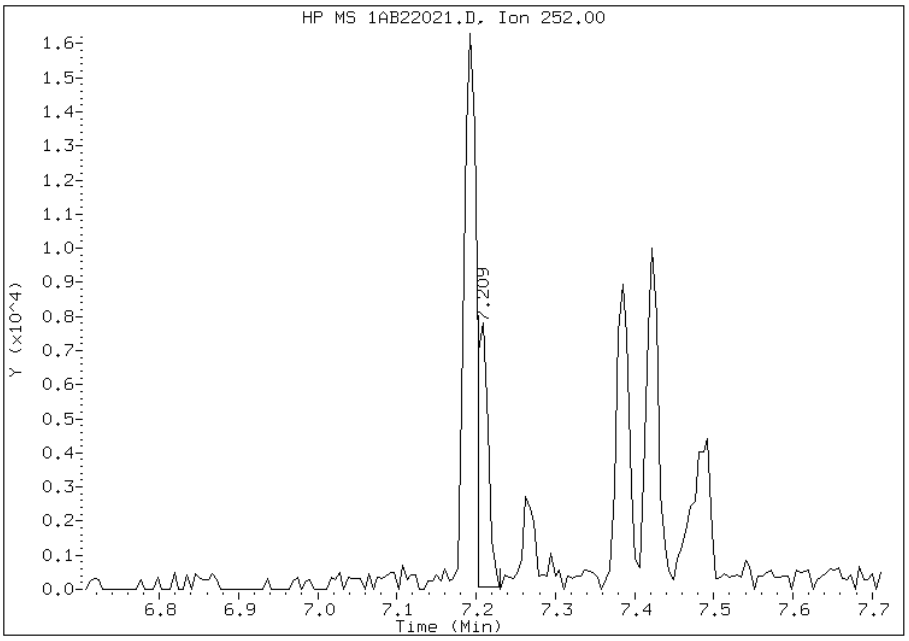
Manual Integration Results

RT: 7.21

Response: 6775

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22021.D
Inj. Date and Time: 22-FEB-2013 15:39
Instrument ID: BSMA5973.i
Client ID: FM0160K-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/25/2013

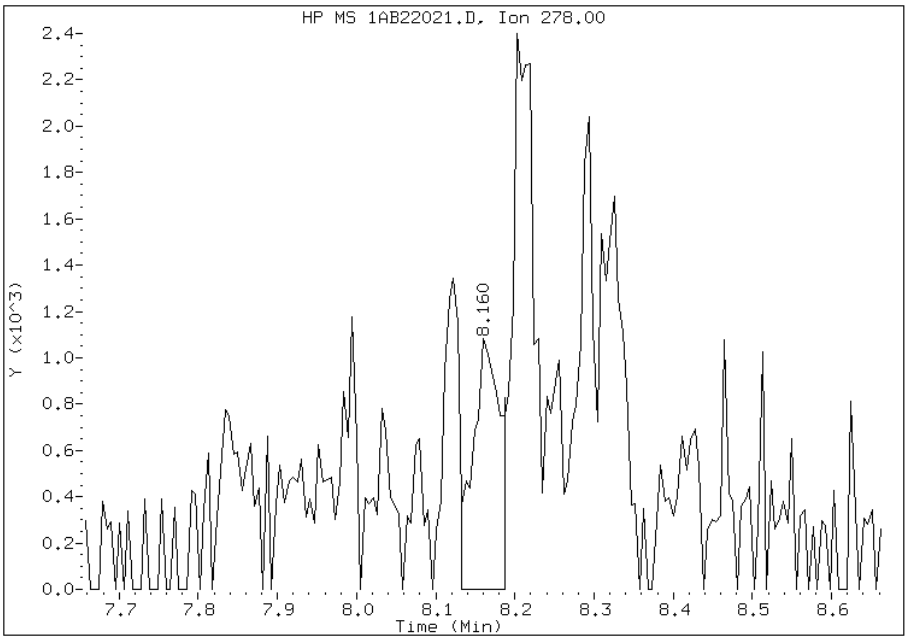
Processing Integration Results

RT: 8.16

Response: 2588

Amount: 0

Conc: 10



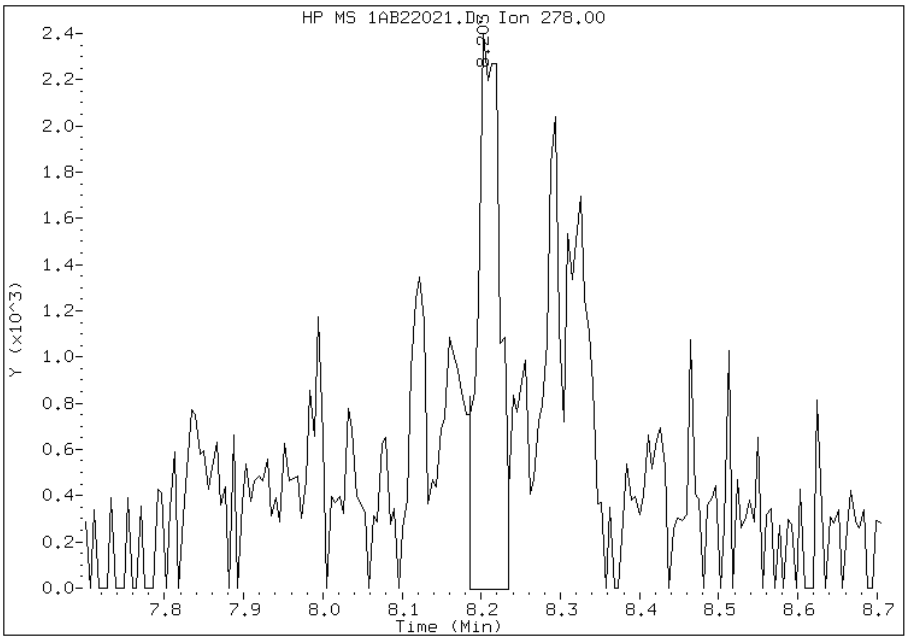
Manual Integration Results

RT: 8.20

Response: 4674

Amount: 0

Conc: 18



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22021.D
Inj. Date and Time: 22-FEB-2013 15:39
Instrument ID: BSMA5973.i
Client ID: FM0160K-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

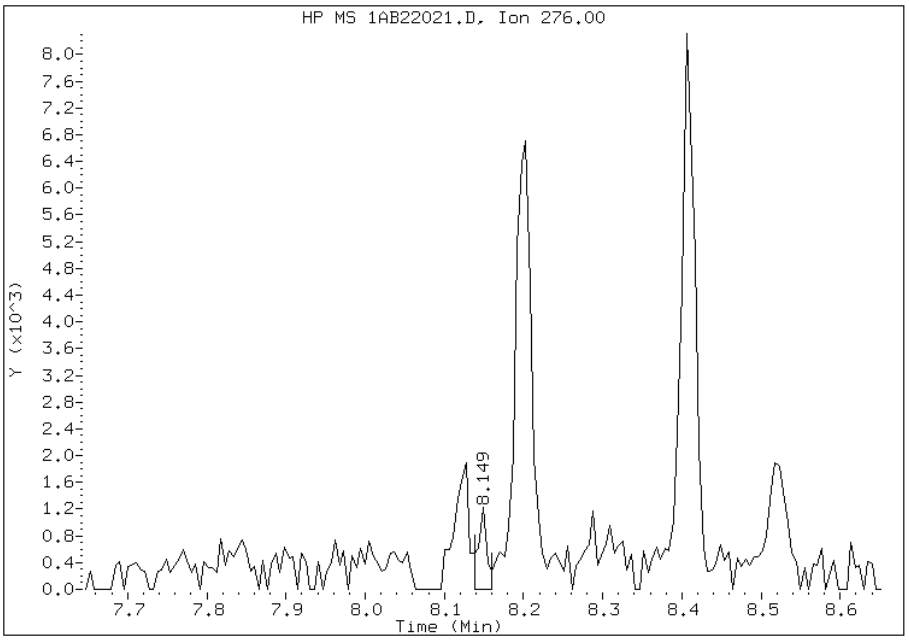
Processing Integration Results

RT: 8.15

Response: 981

Amount: 0

Conc: 4



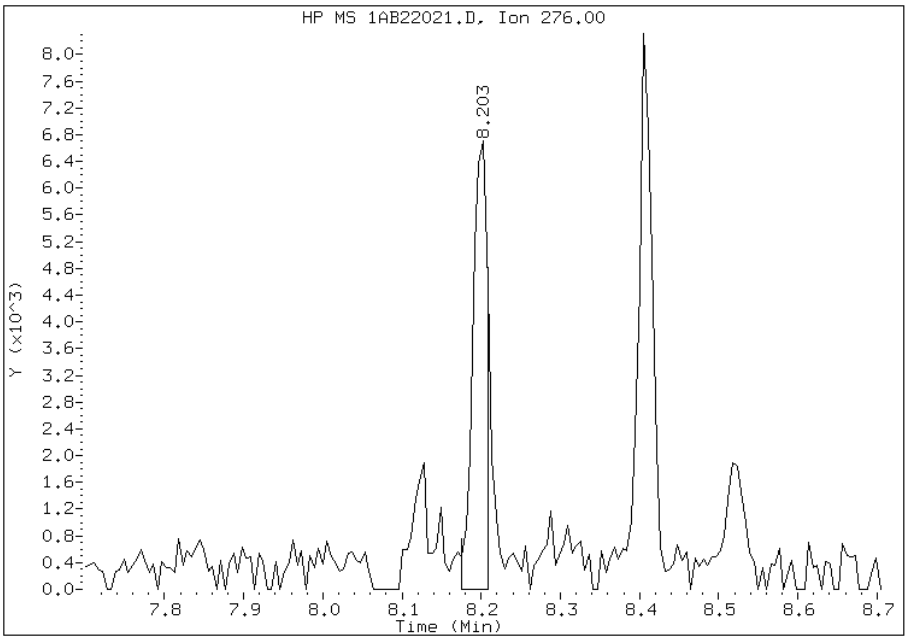
Manual Integration Results

RT: 8.20

Response: 8393

Amount: 0

Conc: 33



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0160L-CS | Lab Sample ID: 680-87496-63

Matrix: Solid | Lab File ID: 1AB22022.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:15

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 14.99(g) | Date Analyzed: 02/22/2013 15:55

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

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

% Moisture: 8.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	6.1	J	44	5.5
120-12-7	Anthracene	13		9.2	4.6
56-55-3	Benzo[a]anthracene	48		8.8	4.3
50-32-8	Benzo[a]pyrene	33		11	5.7
205-99-2	Benzo[b]fluoranthene	53		13	6.7
191-24-2	Benzo[g,h,i]perylene	42		22	4.8
207-08-9	Benzo[k]fluoranthene	16		8.8	3.9
218-01-9	Chrysene	57		9.9	4.9
53-70-3	Dibenz(a,h)anthracene	14	J	22	4.5
206-44-0	Fluoranthene	54		22	4.4
86-73-7	Fluorene	5.8	J	22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	30		22	7.8
90-12-0	1-Methylnaphthalene	43	J	44	4.8
91-57-6	2-Methylnaphthalene	57		44	7.8
91-20-3	Naphthalene	71		44	4.8
85-01-8	Phenanthrene	69		8.8	4.3
129-00-0	Pyrene	57		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22022.D
Lab Smp Id: 680-87496-A-63-A Client Smp ID: FM0160L-CS
Inj Date : 22-FEB-2013 15:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-63-a
Misc Info : 680-87496-A-63-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 22
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	8.678	% 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	2.402	2.397	(1.000)	934993	40.0000	
* 6 Acenaphthene-d10	164	3.422	3.417	(1.000)	790255	40.0000	
* 10 Phenanthrene-d10	188	4.363	4.352	(1.000)	976416	40.0000	
$ 14 o-Terphenyl	230	4.640	4.635	(1.064)	109775	7.72635	564.4163
* 18 Chrysene-d12	240	6.387	6.366	(1.000)	707905	40.0000	
* 23 Perylene-d12	264	7.488	7.456	(1.000)	1036562	40.0000	
2 Naphthalene	128	2.407	2.402	(1.002)	21792	0.96725	70.6585
3 2-Methylnaphthalene	141	2.808	2.808	(1.169)	9083	0.78095	57.0489
4 1-Methylnaphthalene	142	2.867	2.861	(1.193)	7561	0.58379	42.6463
5 Acenaphthylene	152	3.337	3.332	(0.975)	2462	0.08344	6.0952
9 Fluorene	166	3.748	3.743	(1.095)	1720	0.07993	5.8388
11 Phenanthrene	178	4.379	4.368	(1.004)	23082	0.95103	69.4738
12 Anthracene	178	4.411	4.400	(1.011)	4303	0.18252	13.3335
13 Carbazole	167	4.566	4.555	(1.047)	2647	0.12719	9.2914(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.239	5.228	(1.201)	18082	0.74513	54.4322
16 Pyrene	202	5.404	5.394	(0.846)	16076	0.77423	56.5582
17 Benzo(a)anthracene	228	6.377	6.355	(0.998)	13912	0.65817	48.0796
19 Chrysene	228	6.398	6.387	(1.002)	14652	0.77506	56.6186
20 Benzo(b)fluoranthene	252	7.199	7.178	(0.961)	19075	0.72593	53.0295(M)
21 Benzo(k)fluoranthene	252	7.210	7.199	(0.963)	5643	0.21346	15.5933(QM)
22 Benzo(a)pyrene	252	7.429	7.408	(0.992)	10852	0.45096	32.9433
24 Indeno(1,2,3-cd)pyrene	276	8.209	8.177	(1.096)	8604	0.41676	30.4449(M)
25 Dibenzo(a,h)anthracene	278	8.220	8.193	(1.098)	4219	0.19611	14.3259
26 Benzo(g,h,i)perylene	276	8.417	8.385	(1.124)	12648	0.57601	42.0779

QC Flag Legend

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

Data File: 1AB22022.D

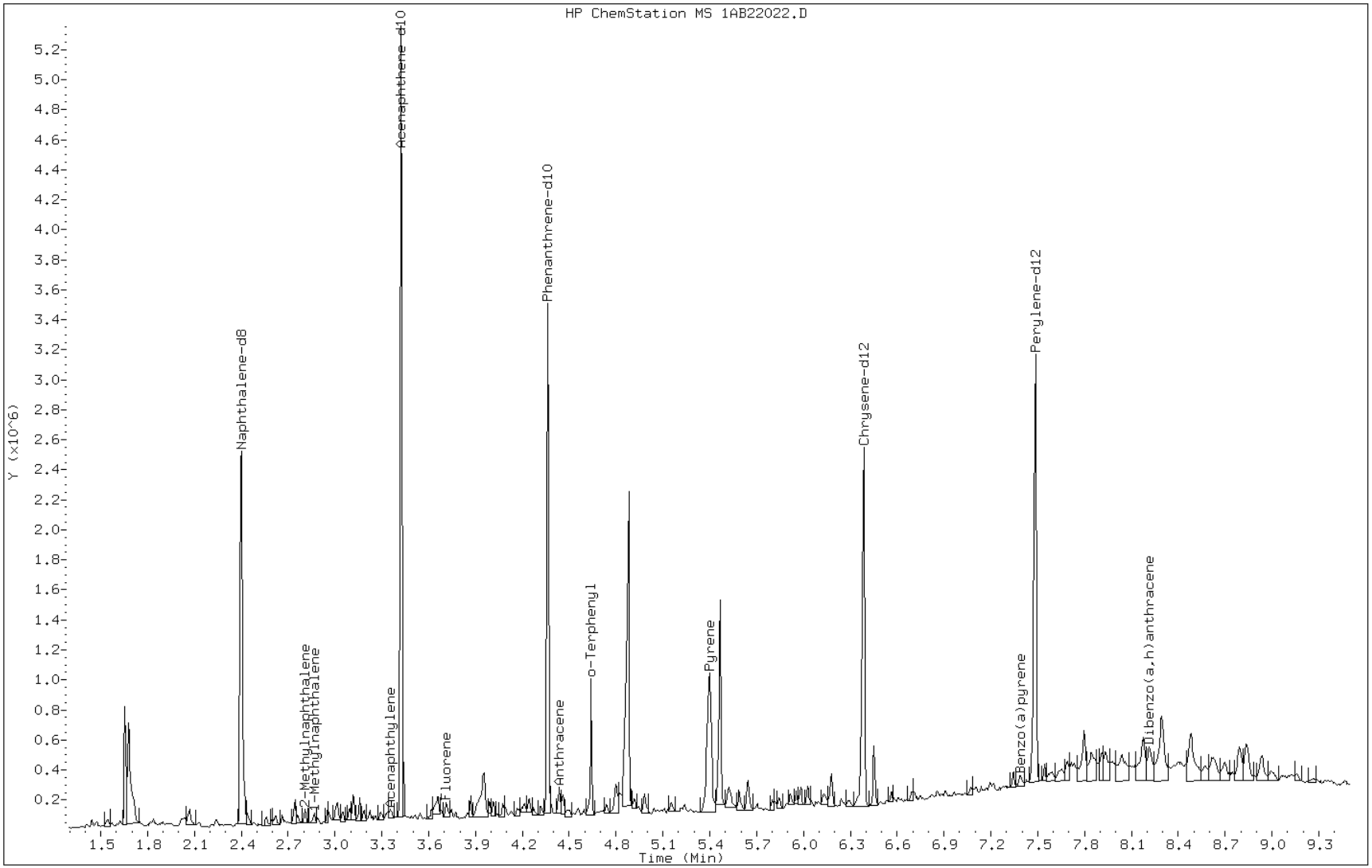
Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a

Operator: SCC



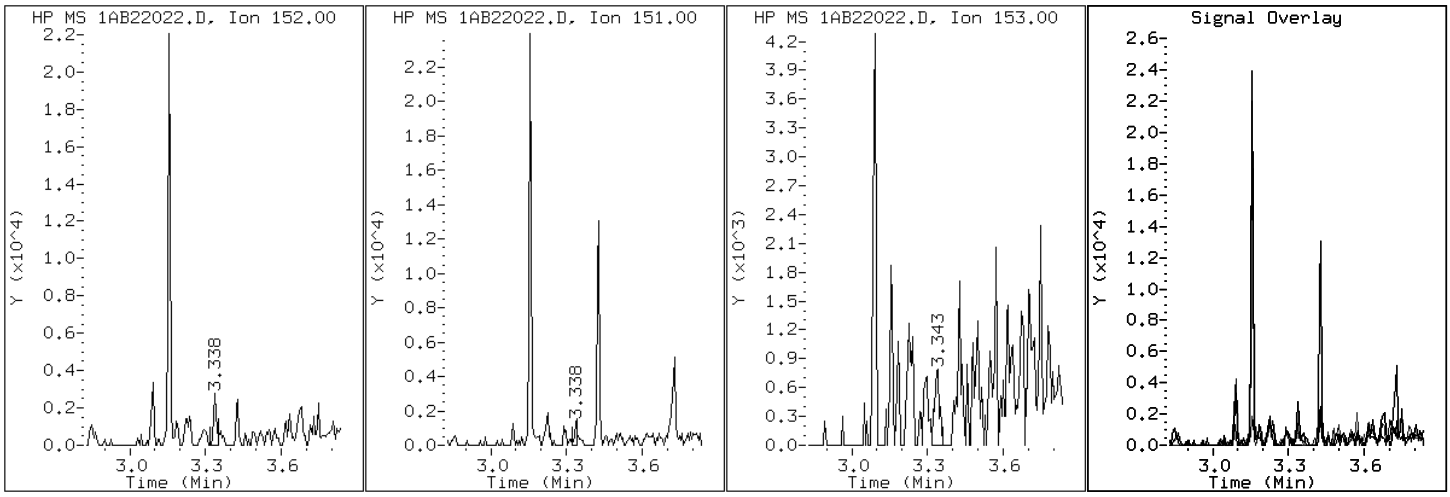
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

5 Acenaphthylene



Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

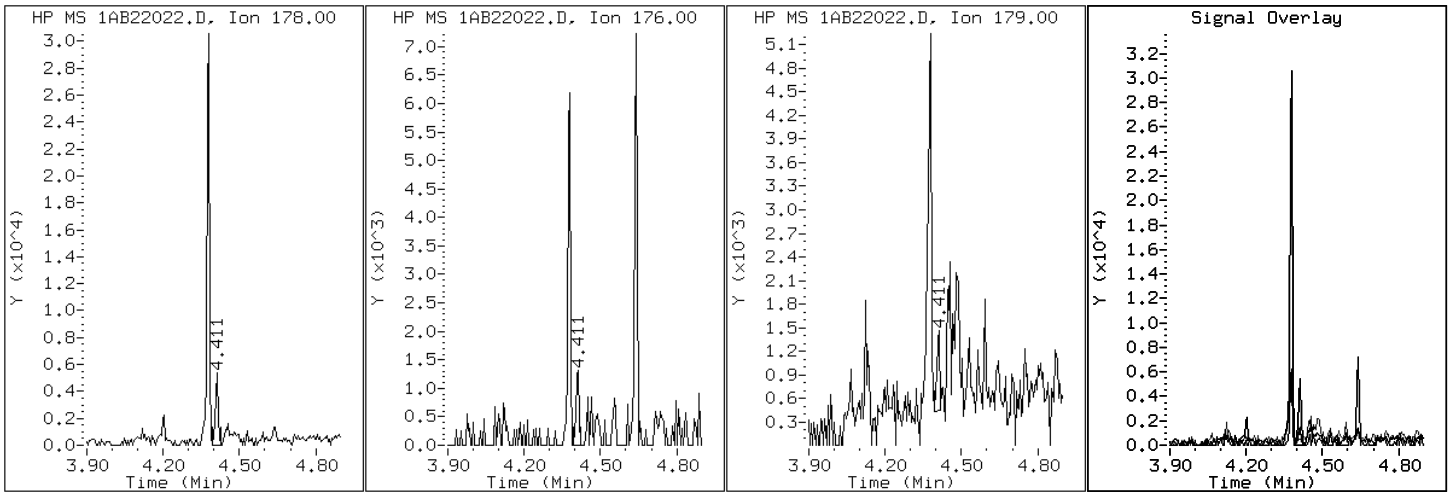
Client ID: FM0160L-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a

Operator: SCC

12 Anthracene



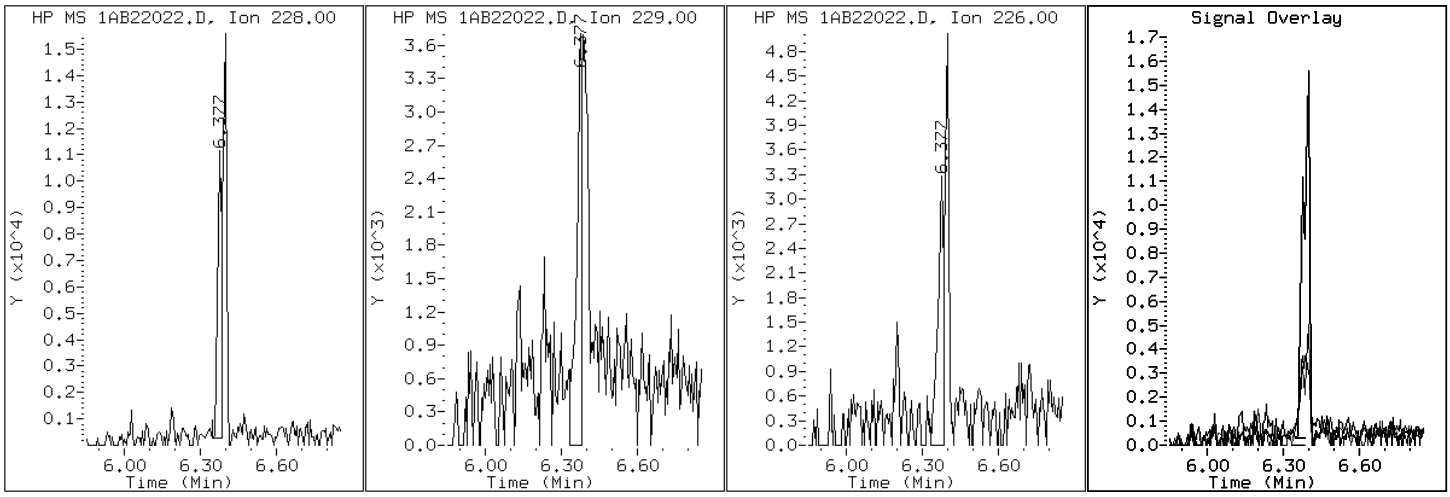
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

17 Benzo(a)anthracene



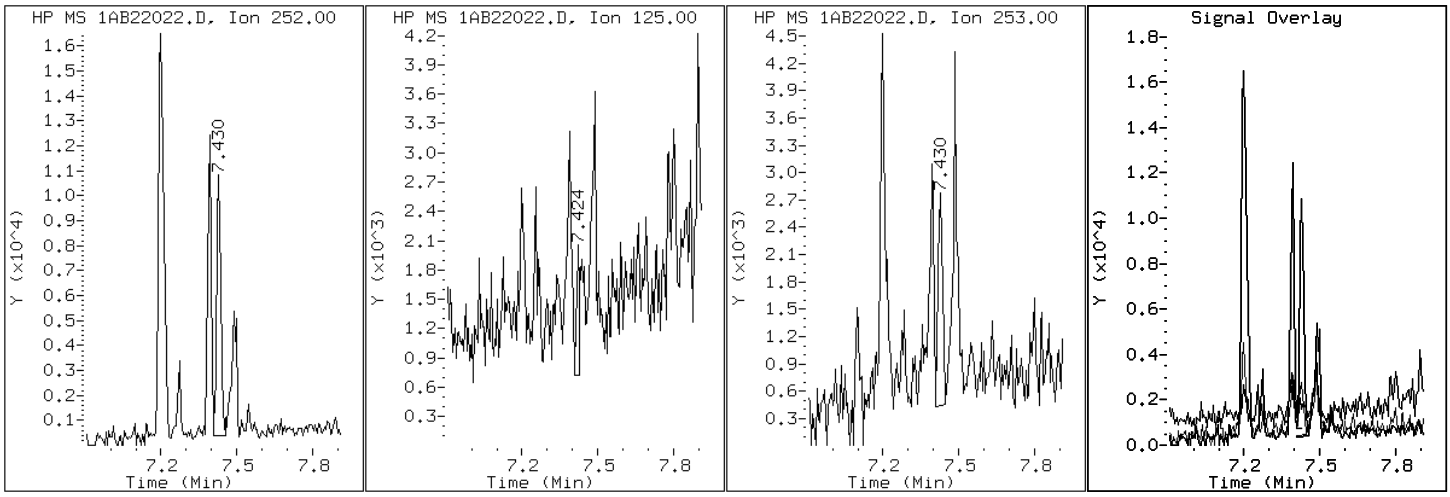
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

22 Benzo(a)pyrene



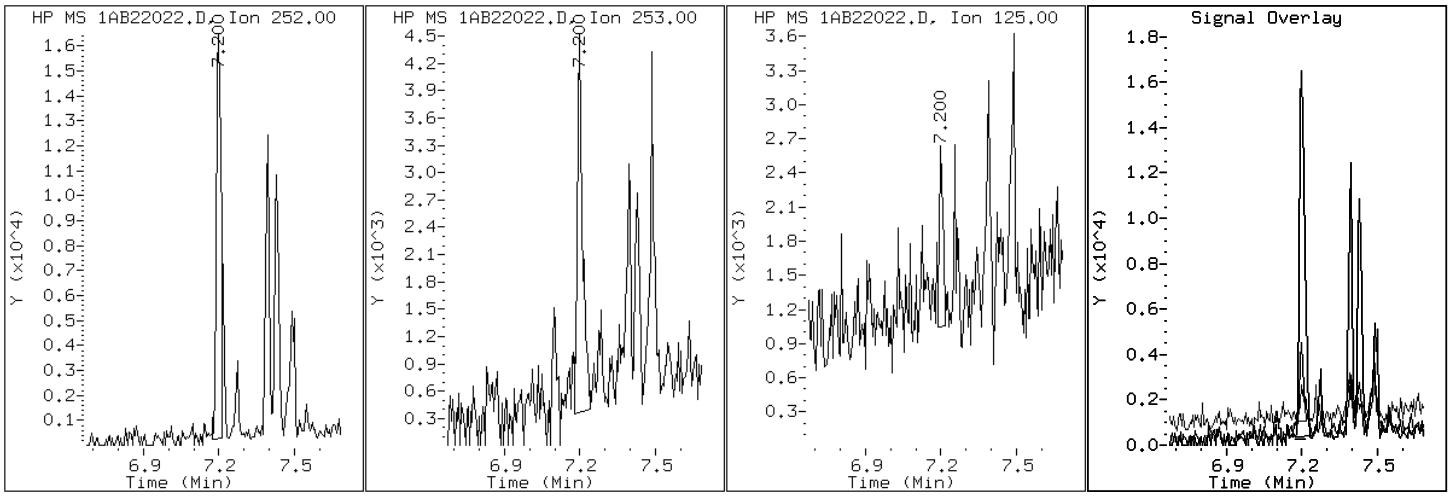
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

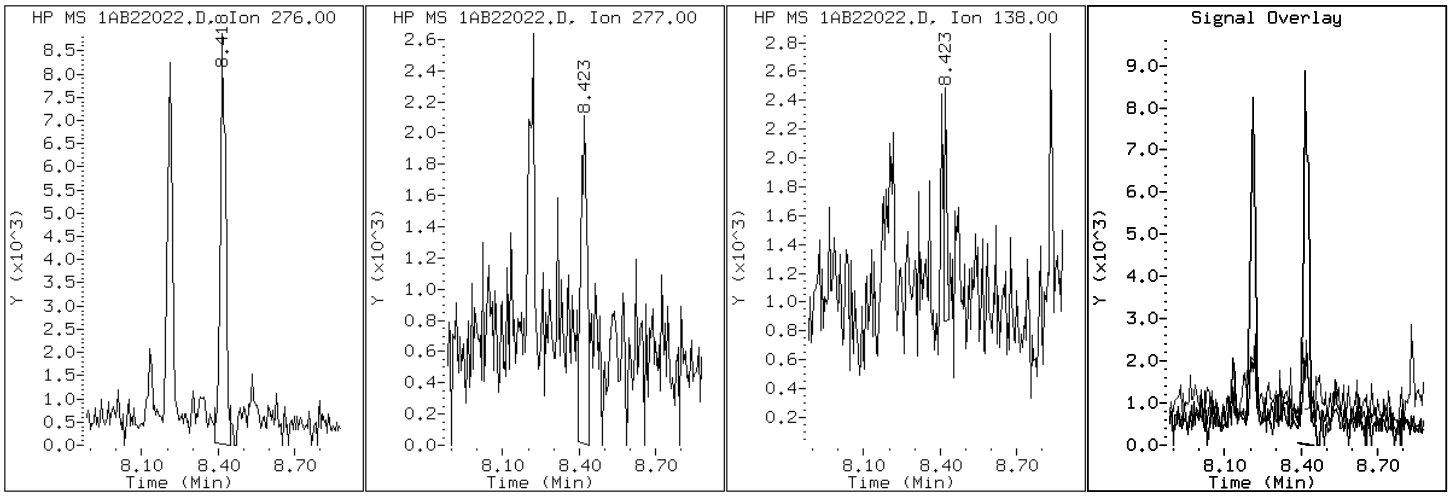
Client ID: FM0160L-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a

Operator: SCC

26 Benzo(g,h,i)perylene



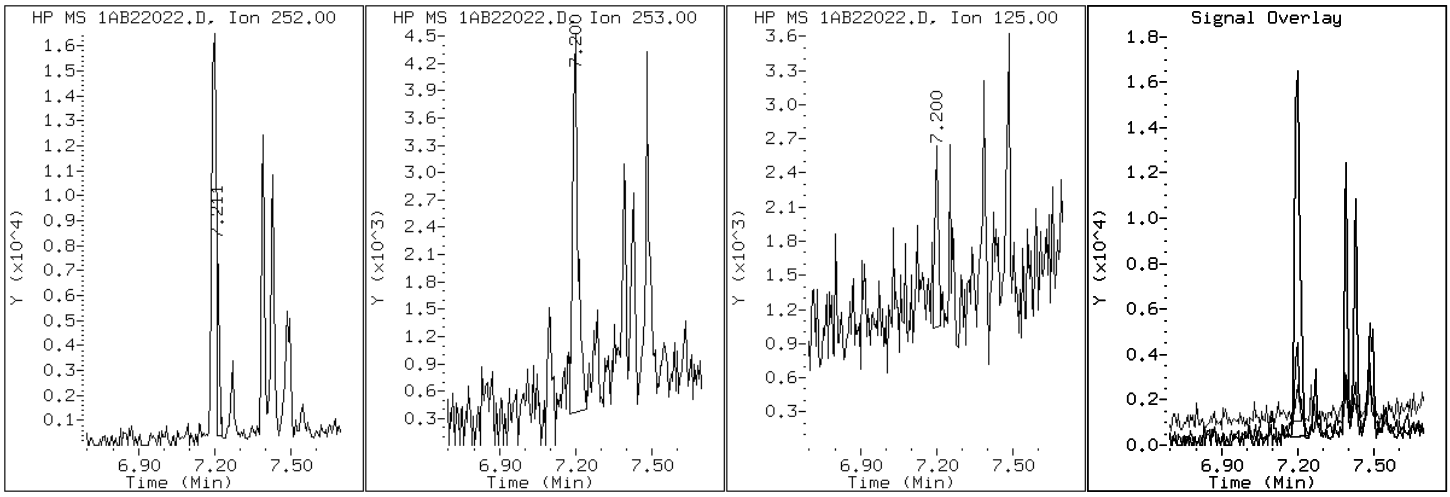
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

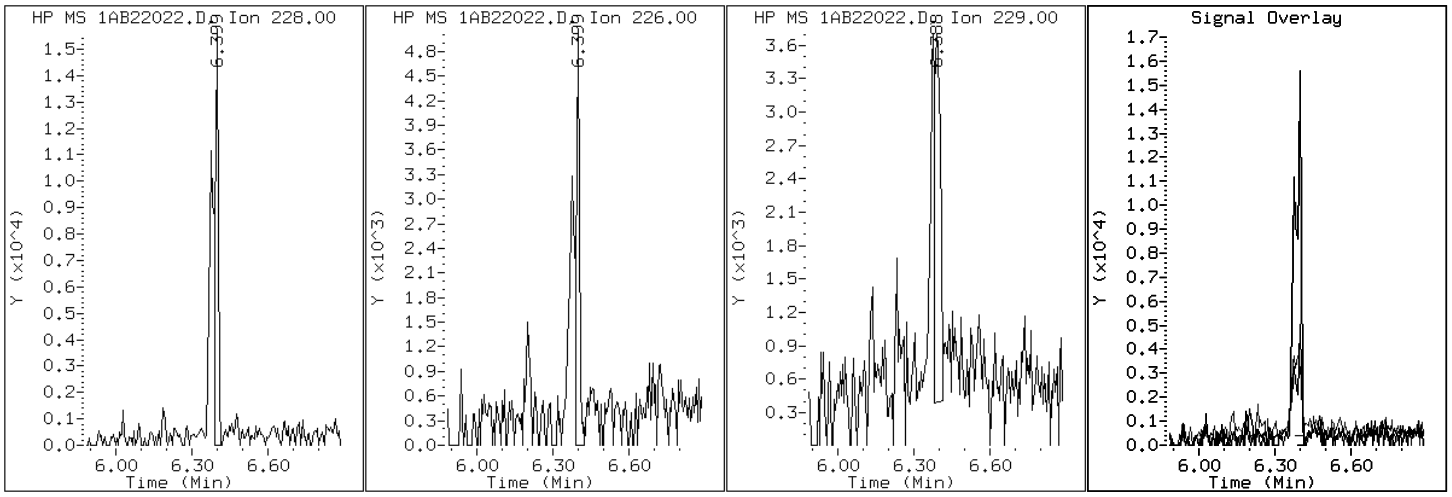
Client ID: FM0160L-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a

Operator: SCC

19 Chrysene



Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

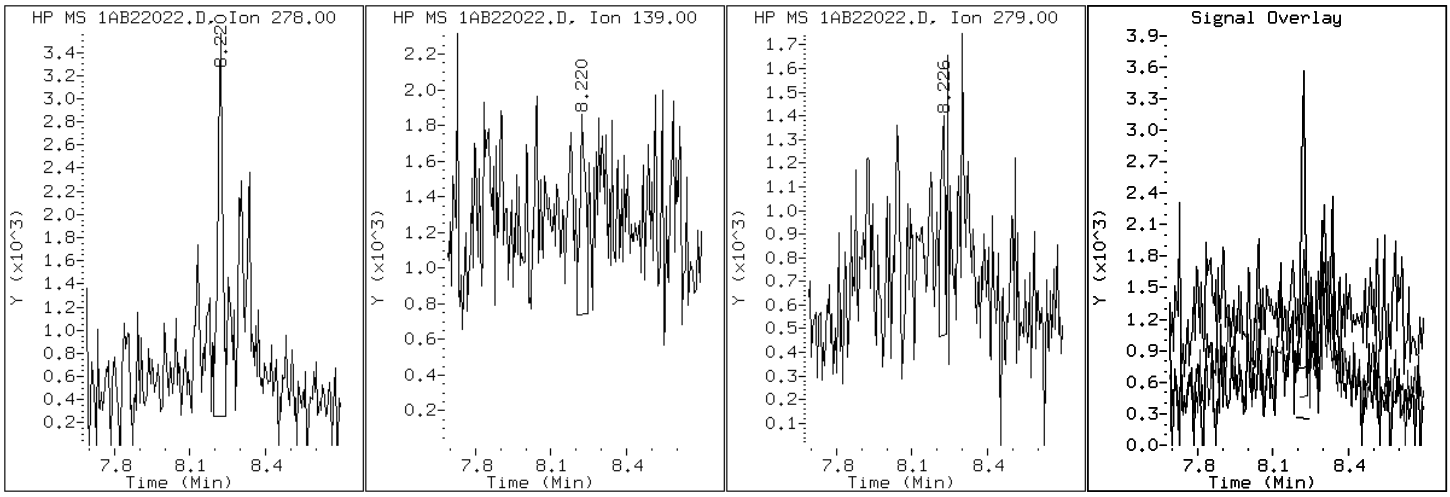
Client ID: FM0160L-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a

Operator: SCC

25 Dibenzo(a,h)anthracene



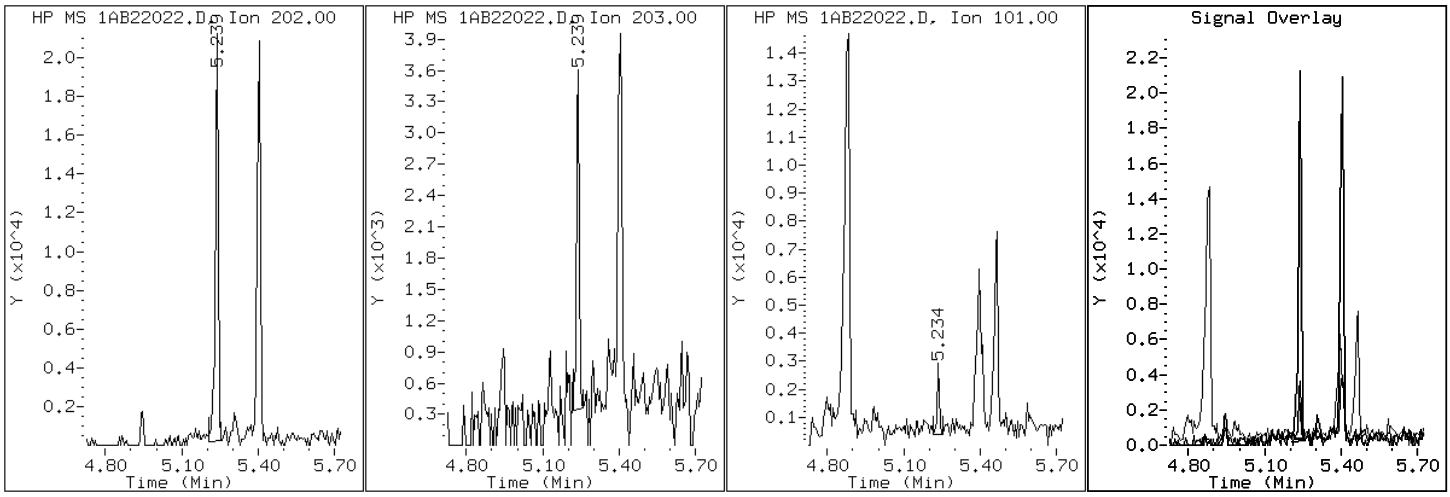
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

15 Fluoranthene



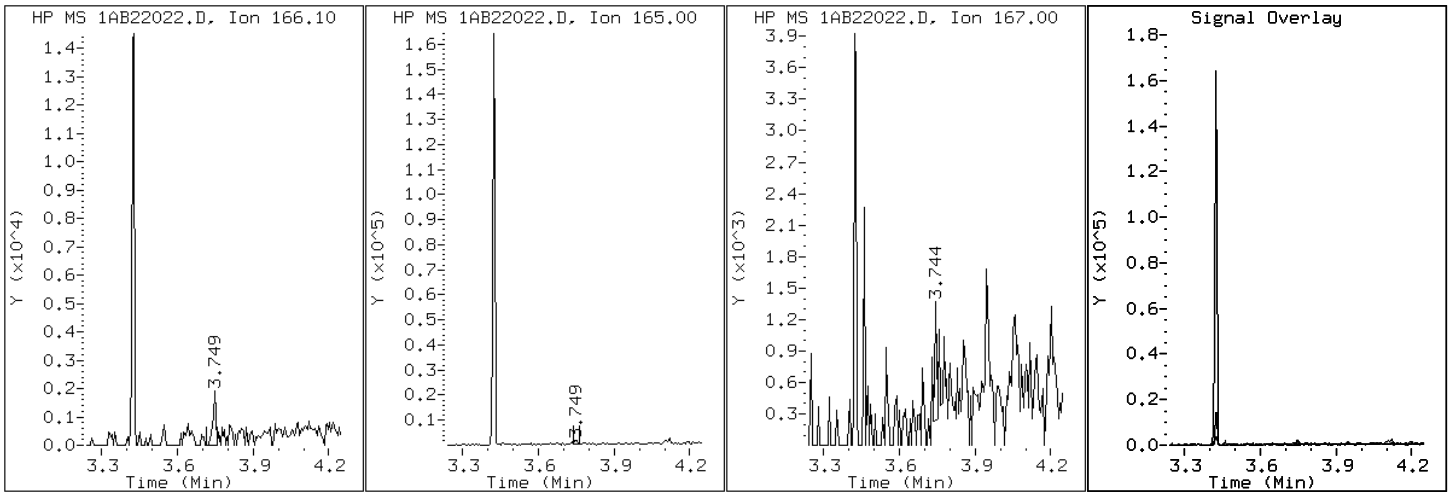
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

9 Fluorene



Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

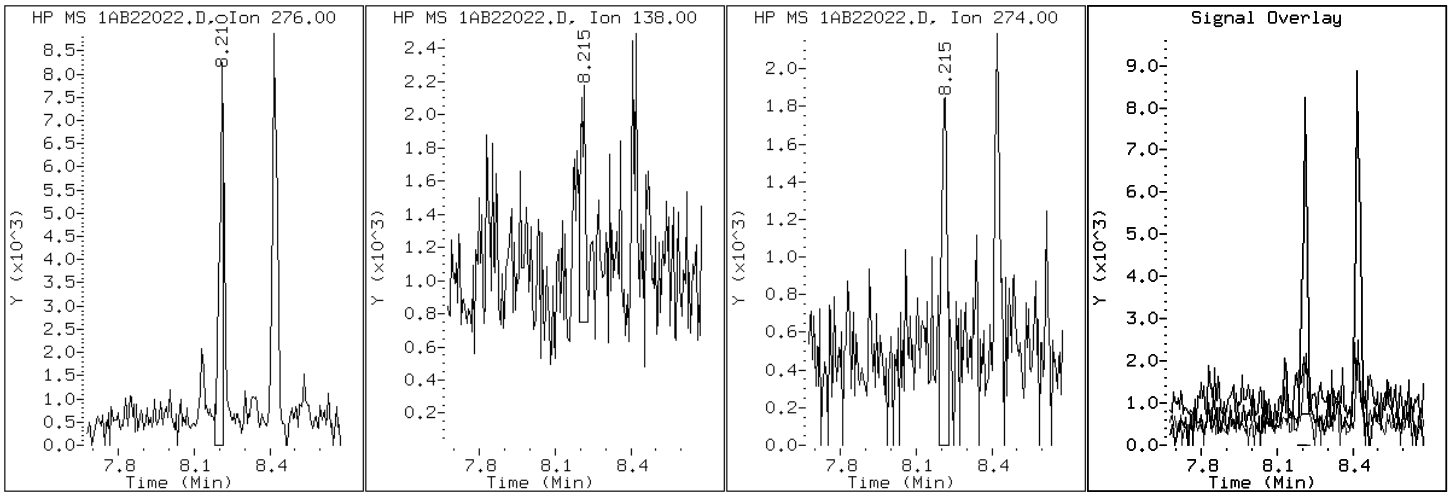
Client ID: FM0160L-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a

Operator: SCC

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



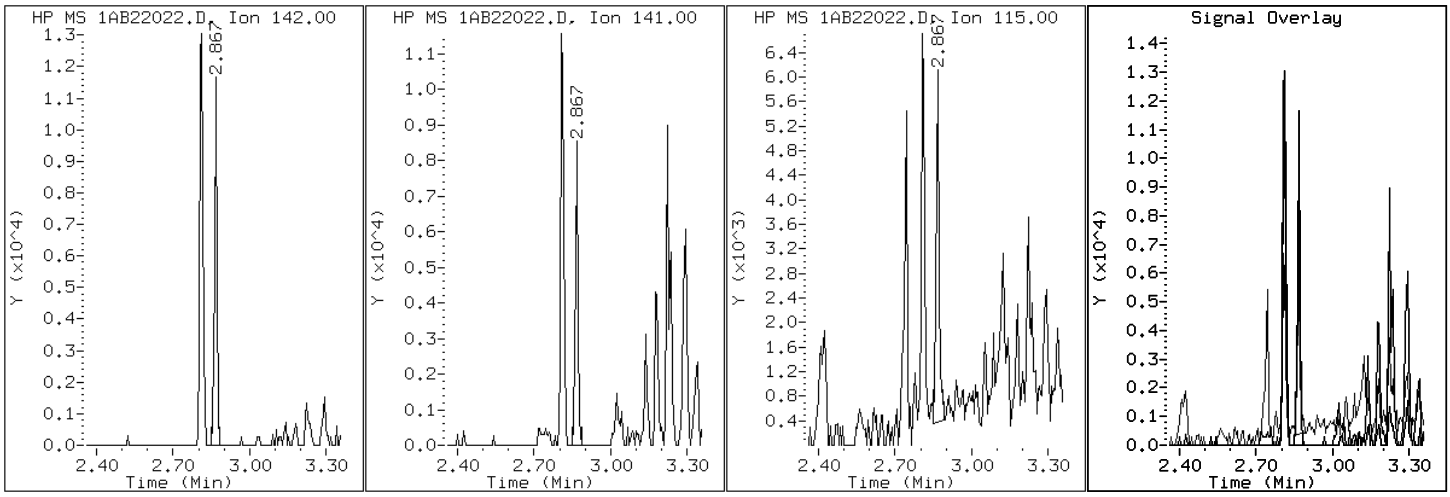
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

4 1-Methylnaphthalene



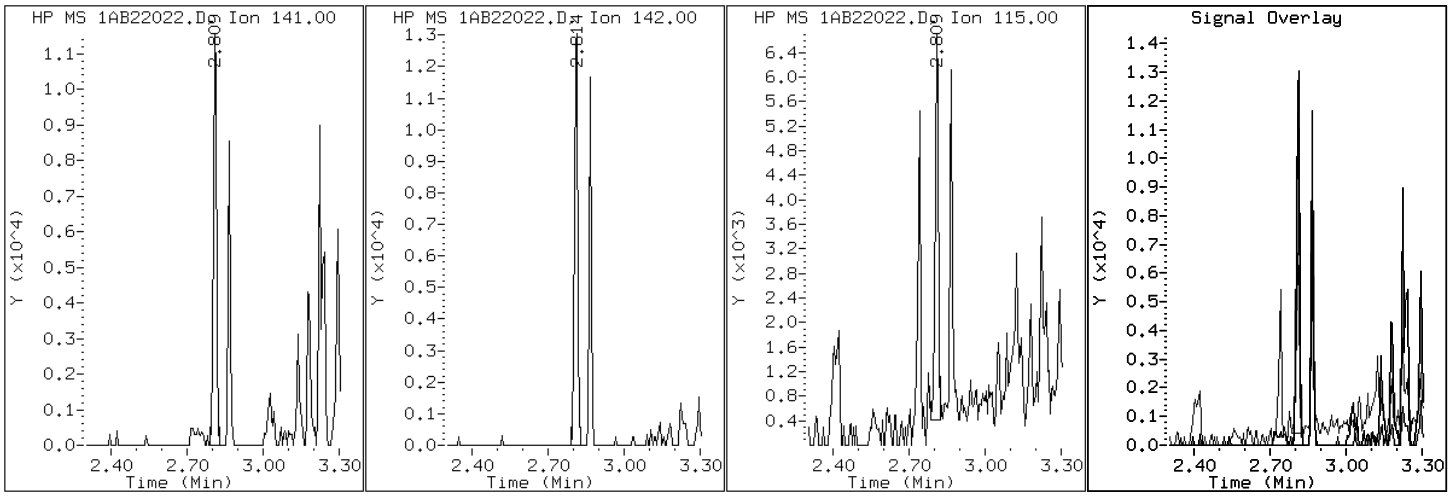
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

3 2-Methylnaphthalene



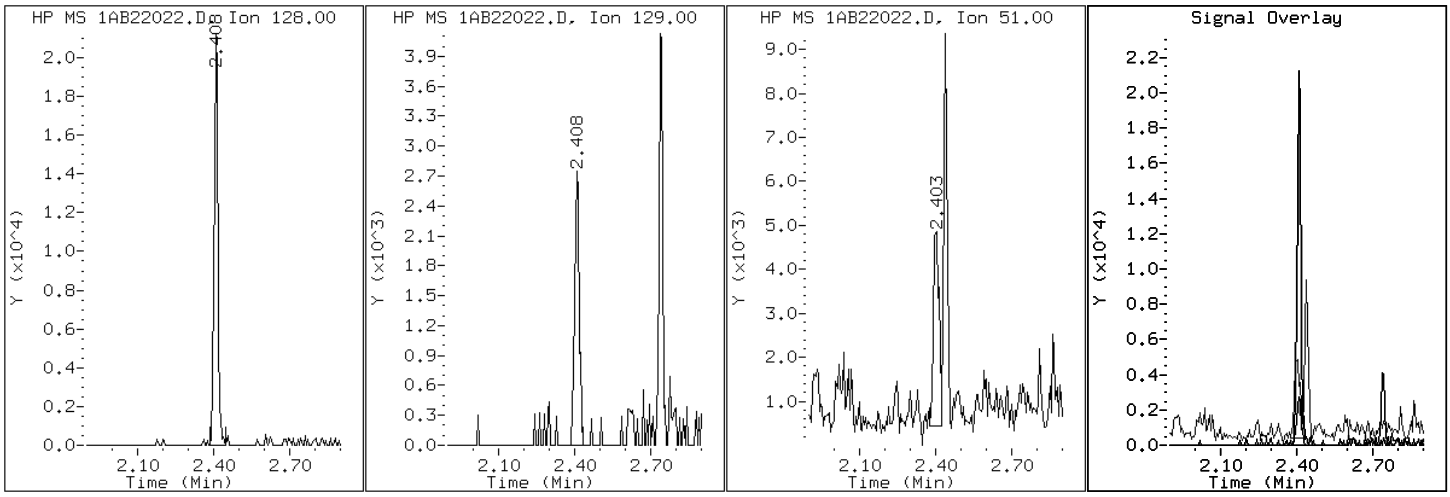
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

2 Naphthalene



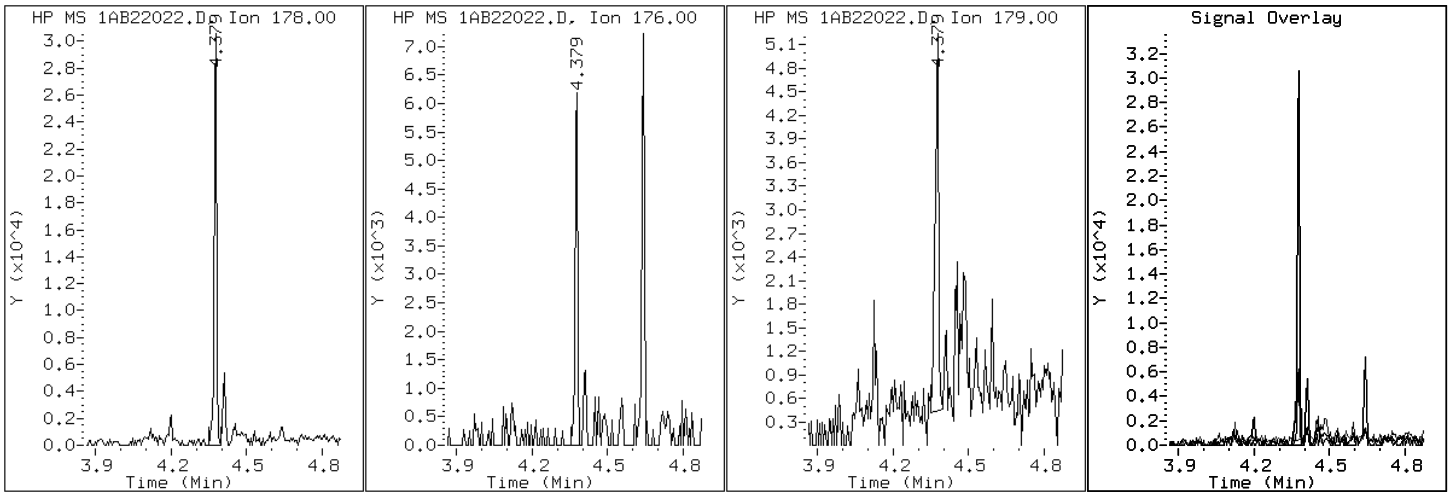
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

11 Phenanthrene



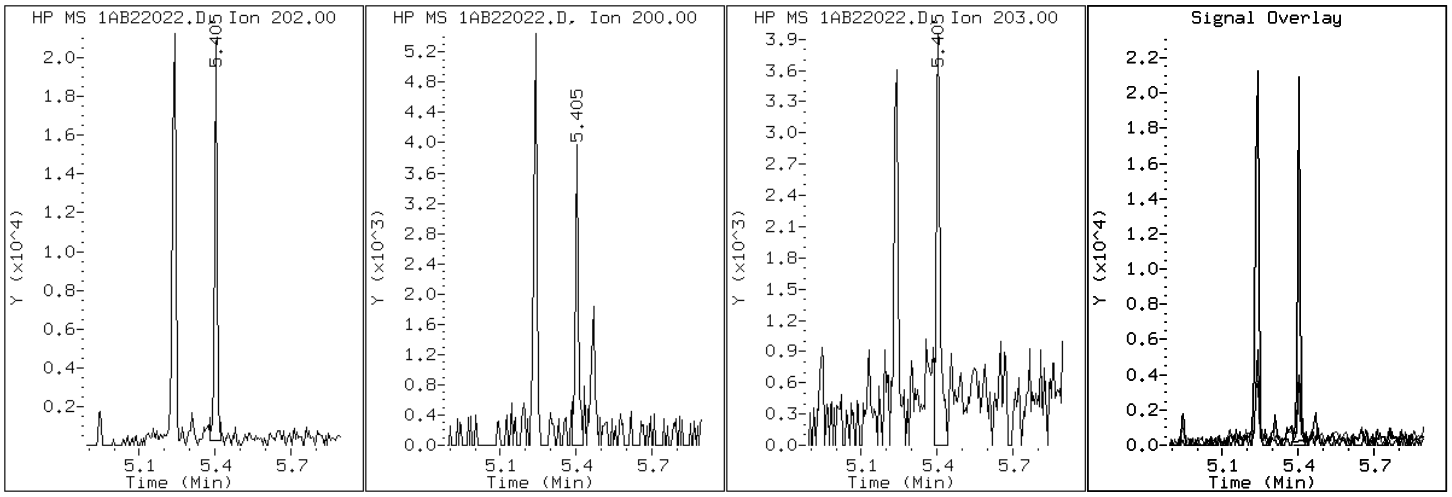
Data File: 1AB22022.D

Date: 22-FEB-2013 15:55

Client ID: FM0160L-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-63-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22022.D
Inj. Date and Time: 22-FEB-2013 15:55
Instrument ID: BSMA5973.i
Client ID: FM0160L-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

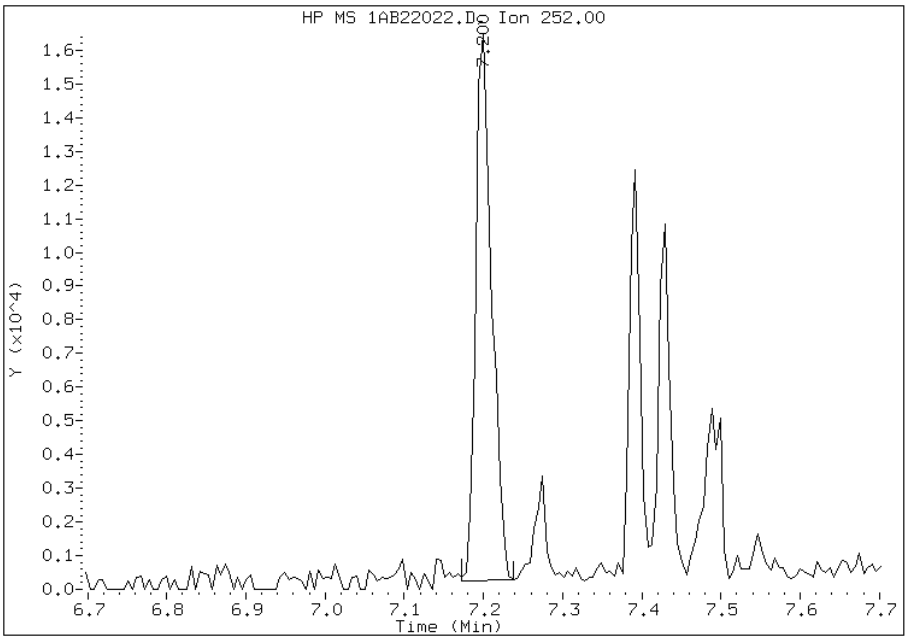
Processing Integration Results

RT: 7.20

Response: 22355

Amount: 1

Conc: 62



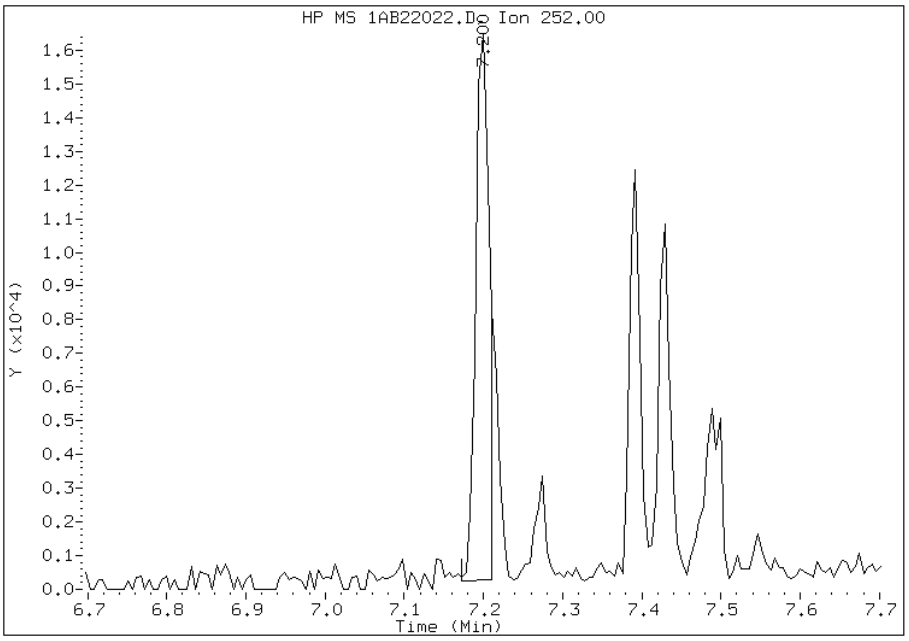
Manual Integration Results

RT: 7.20

Response: 19075

Amount: 1

Conc: 53



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22022.D
Inj. Date and Time: 22-FEB-2013 15:55
Instrument ID: BSMA5973.i
Client ID: FM0160L-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

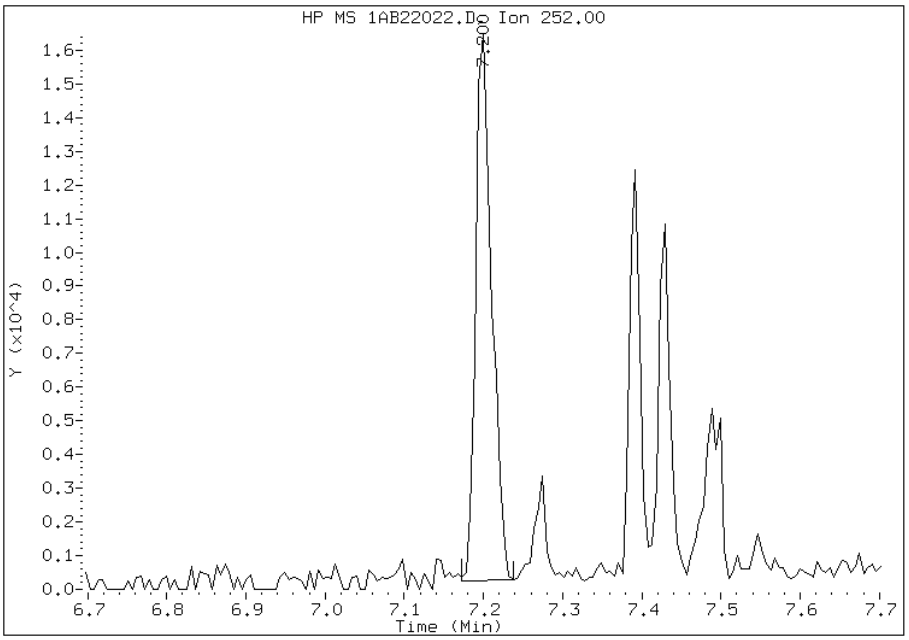
Processing Integration Results

RT: 7.20

Response: 22355

Amount: 1

Conc: 62



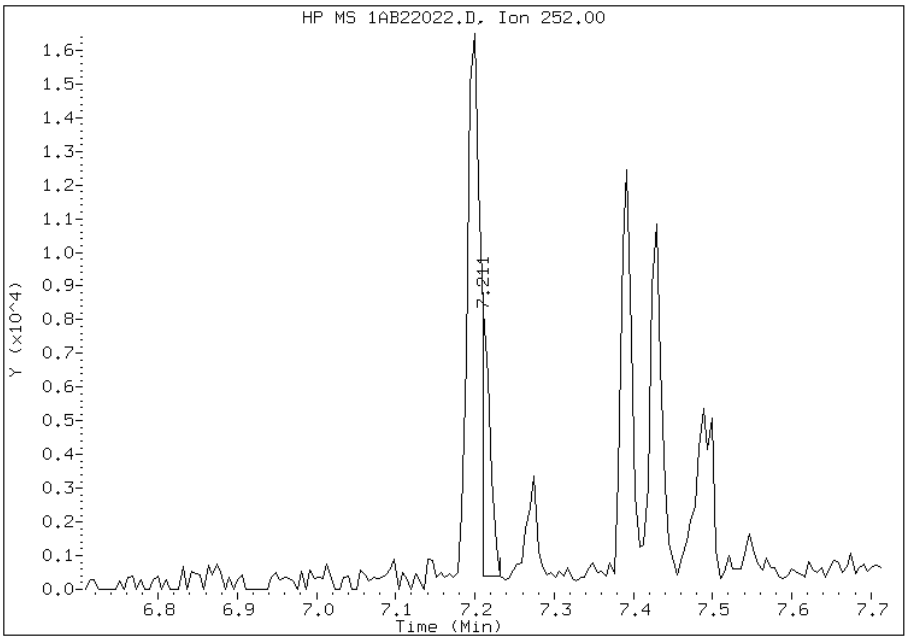
Manual Integration Results

RT: 7.21

Response: 5643

Amount: 0

Conc: 16



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22022.D
Inj. Date and Time: 22-FEB-2013 15:55
Instrument ID: BSMA5973.i
Client ID: FM0160L-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

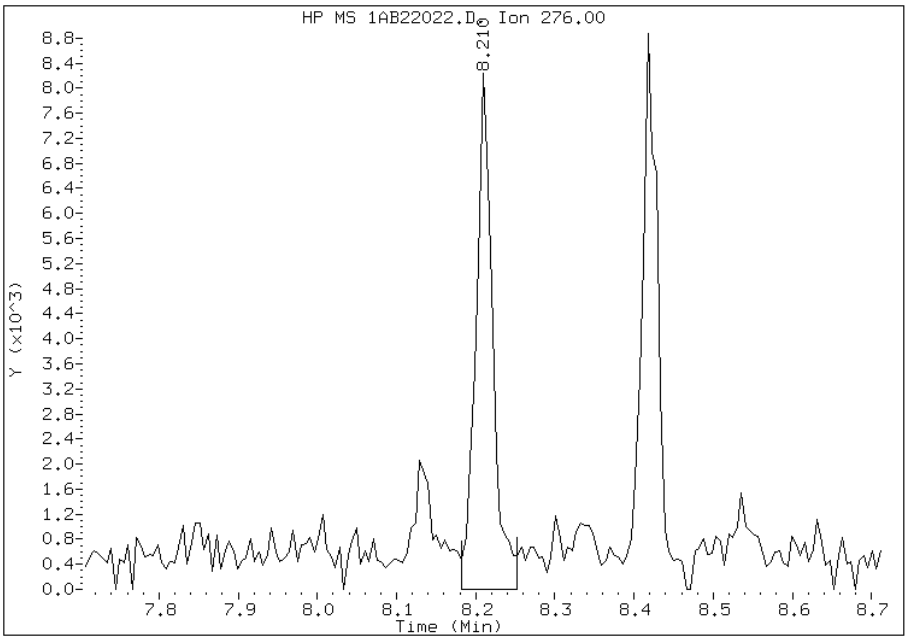
Processing Integration Results

RT: 8.21

Response: 12067

Amount: 1

Conc: 43



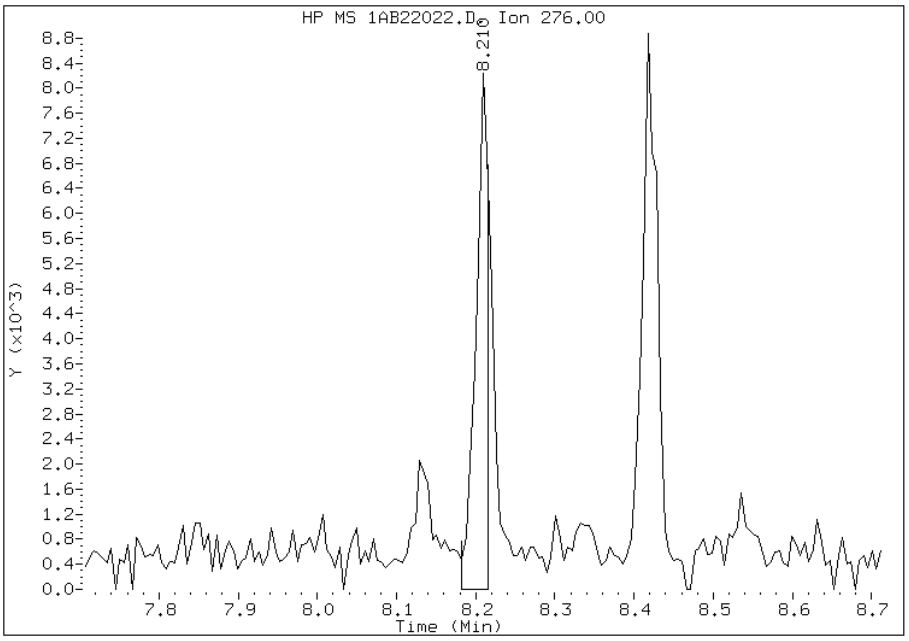
Manual Integration Results

RT: 8.21

Response: 8604

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0161A-CS | Lab Sample ID: 680-87496-64

Matrix: Solid | Lab File ID: 1AB22023.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:30

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.09(g) | Date Analyzed: 02/22/2013 16:09

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

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

% Moisture: 19.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	49	U	49	6.2
120-12-7	Anthracene	10	U	10	5.2
56-55-3	Benzo[a]anthracene	33		9.9	4.8
50-32-8	Benzo[a]pyrene	17		13	6.4
205-99-2	Benzo[b]fluoranthene	27		15	7.5
191-24-2	Benzo[g,h,i]perylene	23	J	25	5.4
207-08-9	Benzo[k]fluoranthene	10		9.9	4.4
218-01-9	Chrysene	21		11	5.5
53-70-3	Dibenz(a,h)anthracene	8.4	J	25	5.1
206-44-0	Fluoranthene	25		25	4.9
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	19	J	25	8.8
90-12-0	1-Methylnaphthalene	7.4	J	49	5.4
91-57-6	2-Methylnaphthalene	9.4	J	49	8.8
91-20-3	Naphthalene	16	J	49	5.4
85-01-8	Phenanthrene	21		9.9	4.8
129-00-0	Pyrene	29		25	4.6

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\1A022213_IC.b\1AB22023.D
Lab Smp Id: 680-87496-A-64-A Client Smp ID: FM0161A-CS
Inj Date : 22-FEB-2013 16:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-64-a
Misc Info : 680-87496-A-64-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 23
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	15.090	Weight Extracted
M	19.400	% 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	2.398	2.397	(1.000)	1051648	40.0000	
* 6 Acenaphthene-d10	164	3.424	3.417	(1.000)	843789	40.0000	
* 10 Phenanthrene-d10	188	4.364	4.352	(1.000)	1166083	40.0000	
$ 14 o-Terphenyl	230	4.642	4.635	(1.064)	111895	6.59458	542.2038
* 18 Chrysene-d12	240	6.383	6.366	(1.000)	682483	40.0000	
* 23 Perylene-d12	264	7.484	7.456	(1.000)	962530	40.0000	
2 Naphthalene	128	2.409	2.402	(1.004)	4851	0.19143	15.7393
3 2-Methylnaphthalene	141	2.810	2.808	(1.171)	1494	0.11420	9.3898
4 1-Methylnaphthalene	142	2.863	2.861	(1.194)	1315	0.09027	7.4219
11 Phenanthrene	178	4.375	4.368	(1.002)	7267	0.25072	20.6138
15 Fluoranthene	202	5.235	5.228	(1.200)	8739	0.30154	24.7928
16 Pyrene	202	5.406	5.394	(0.847)	7117	0.35553	29.2313
17 Benzo(a)anthracene	228	6.383	6.355	(1.000)	8228	0.40376	33.1970
19 Chrysene	228	6.394	6.387	(1.002)	4682	0.25689	21.1216

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
20 Benzo(b)fluoranthene	252	7.195	7.178	(0.961)	7989	0.32742	26.9201(M)
21 Benzo(k)fluoranthene	252	7.206	7.199	(0.963)	3104	0.12645	10.3963(MH)
22 Benzo(a)pyrene	252	7.425	7.408	(0.992)	4531	0.20277	16.6718
24 Indeno(1,2,3-cd)pyrene	276	8.200	8.177	(1.096)	4314	0.22504	18.5023(M)
25 Dibenzo(a,h)anthracene	278	8.205	8.193	(1.096)	2043	0.10227	8.4083(M)
26 Benzo(g,h,i)perylene	276	8.403	8.385	(1.123)	5733	0.28117	23.1177

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB22023.D

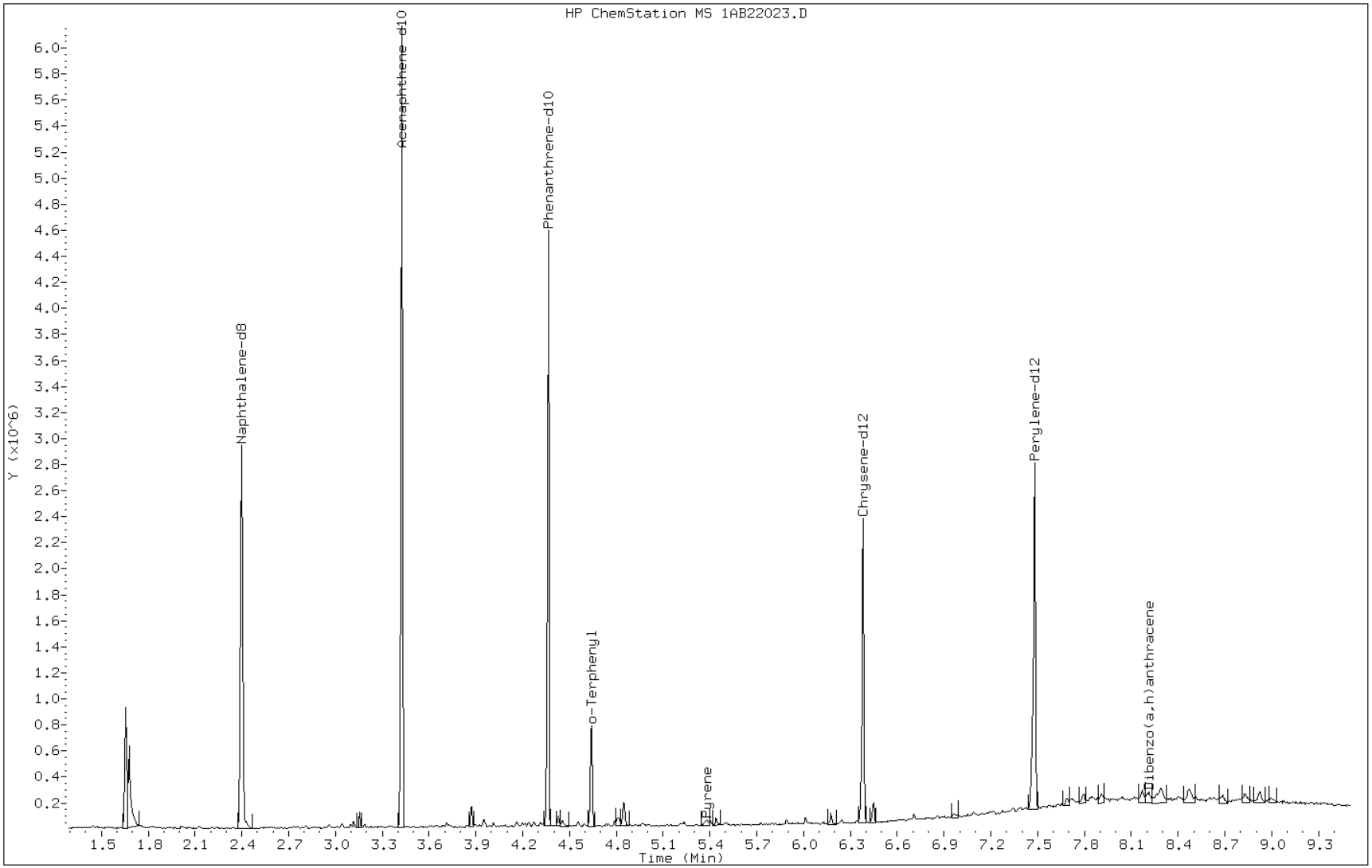
Date: 22-FEB-2013 16:09

Client ID: FM0161A-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a

Operator: SCC



Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

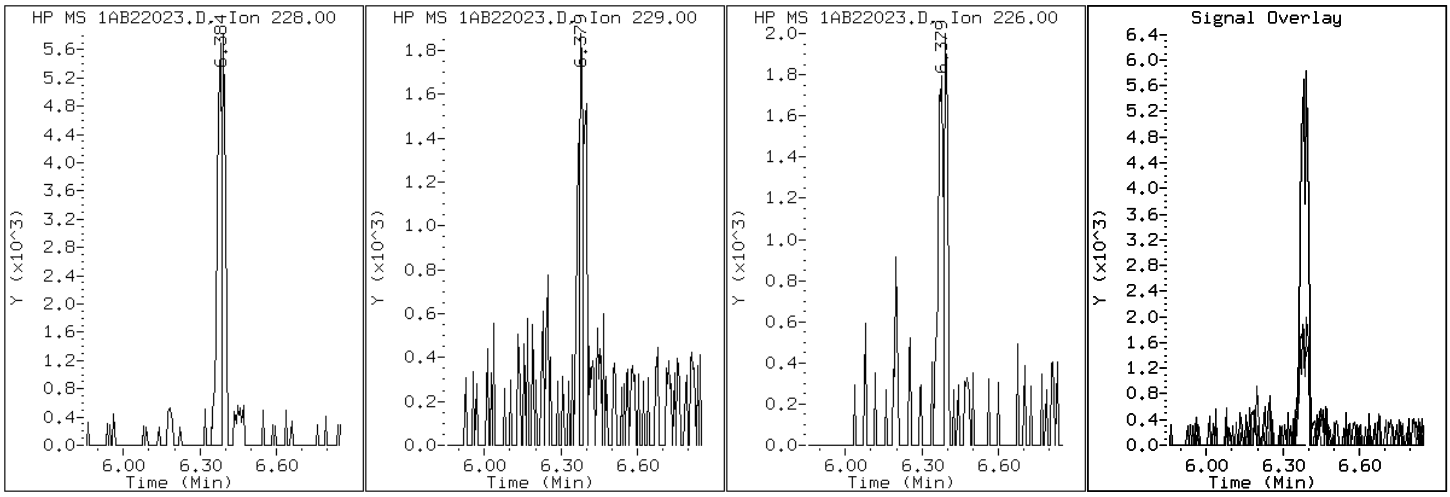
Client ID: FM0161A-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

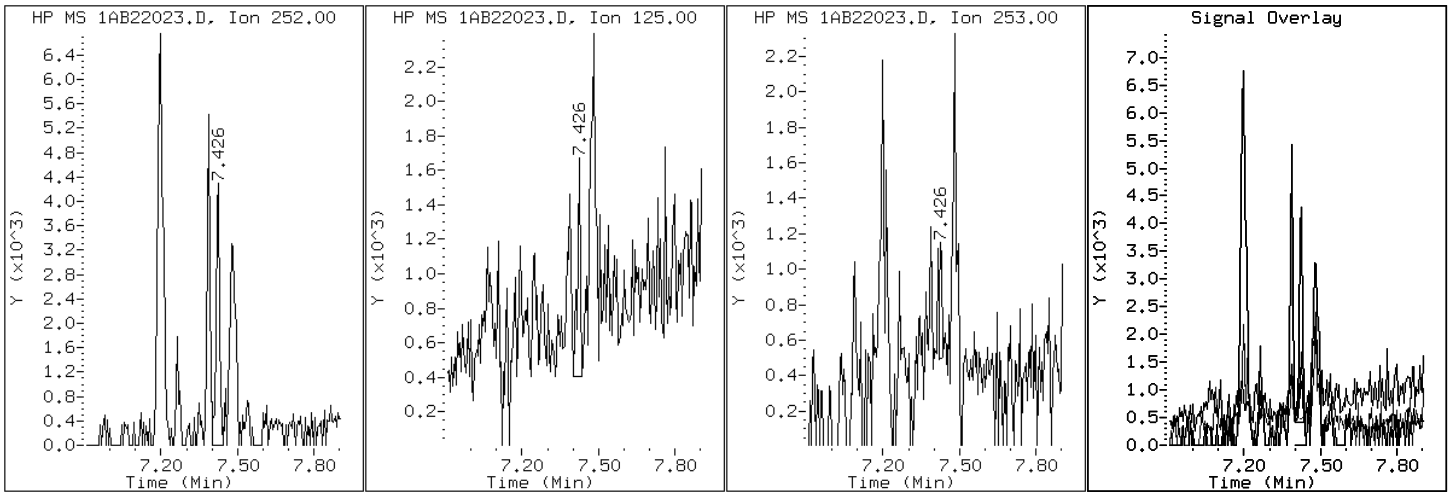
Client ID: FM0161A-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

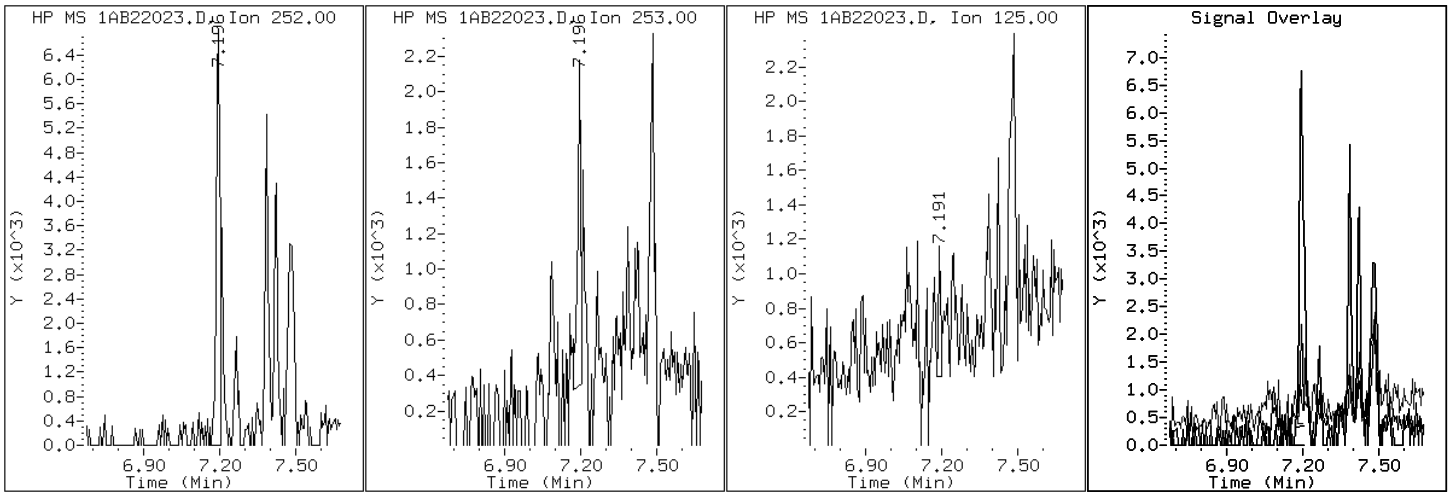
Client ID: FM0161A-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

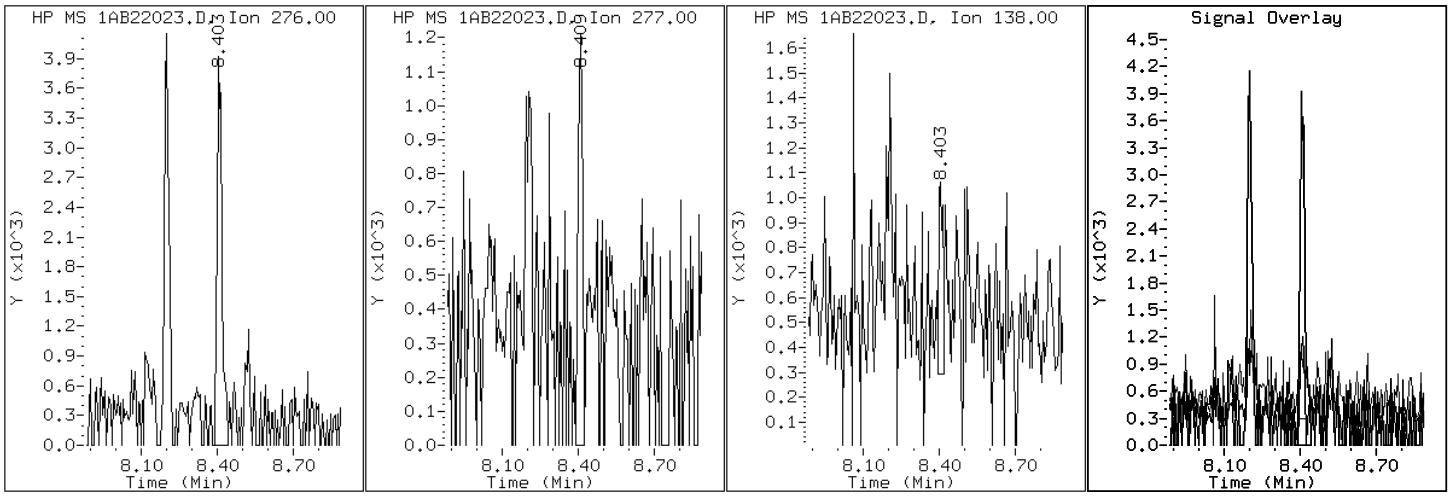
Client ID: FM0161A-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

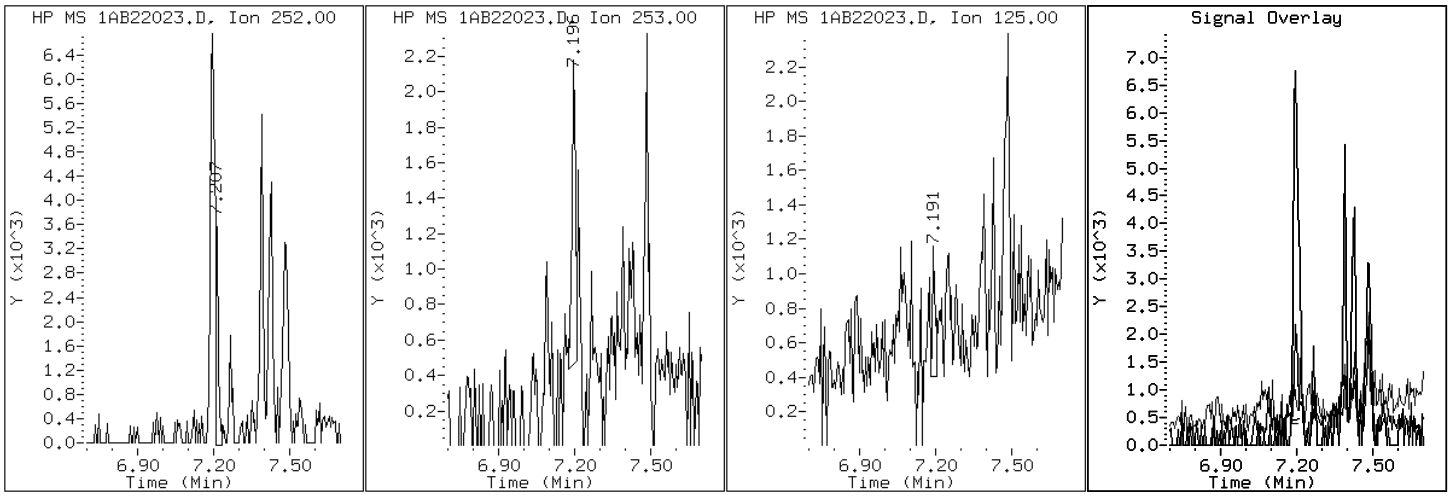
Client ID: FM0161A-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

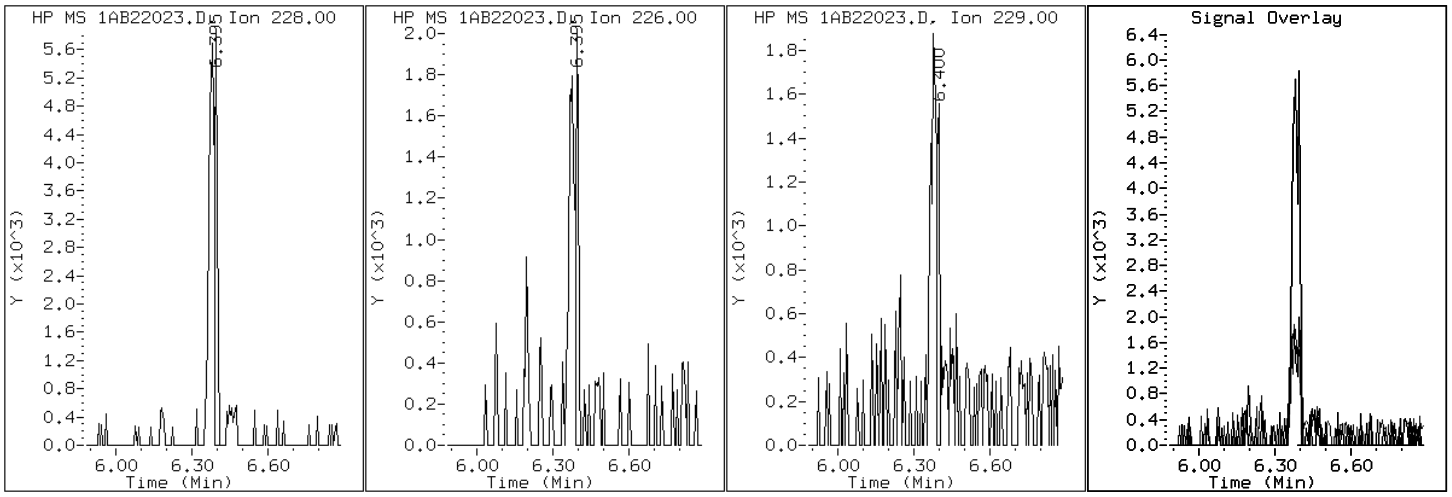
Client ID: FM0161A-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a

Operator: SCC

19 Chrysene



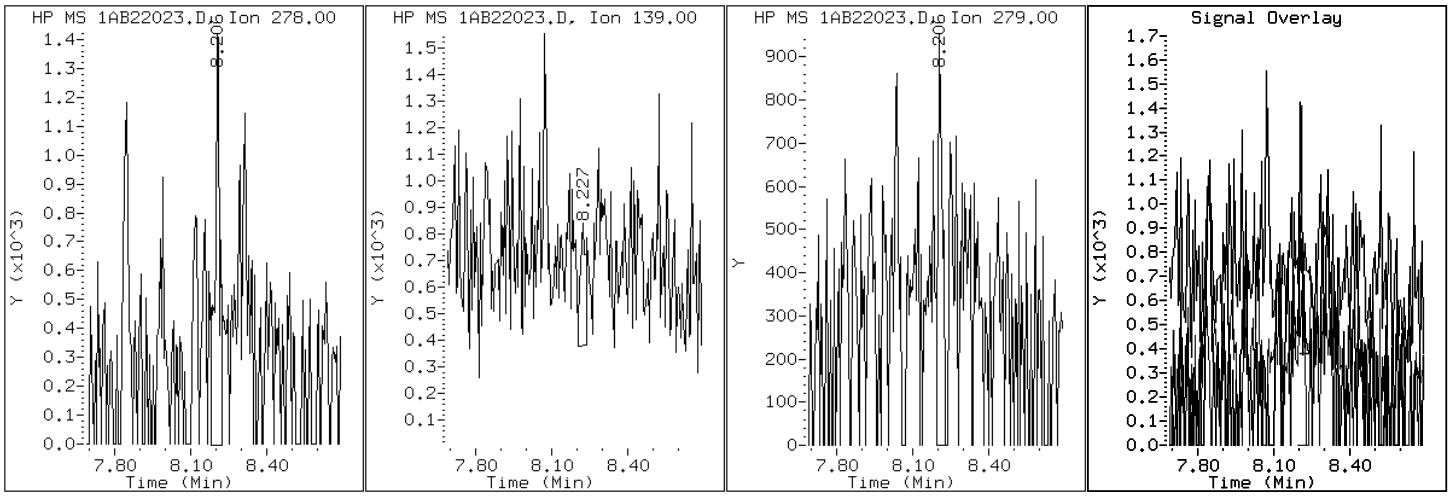
Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

Client ID: FM0161A-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a Operator: SCC

25 Dibenzo(a,h)anthracene



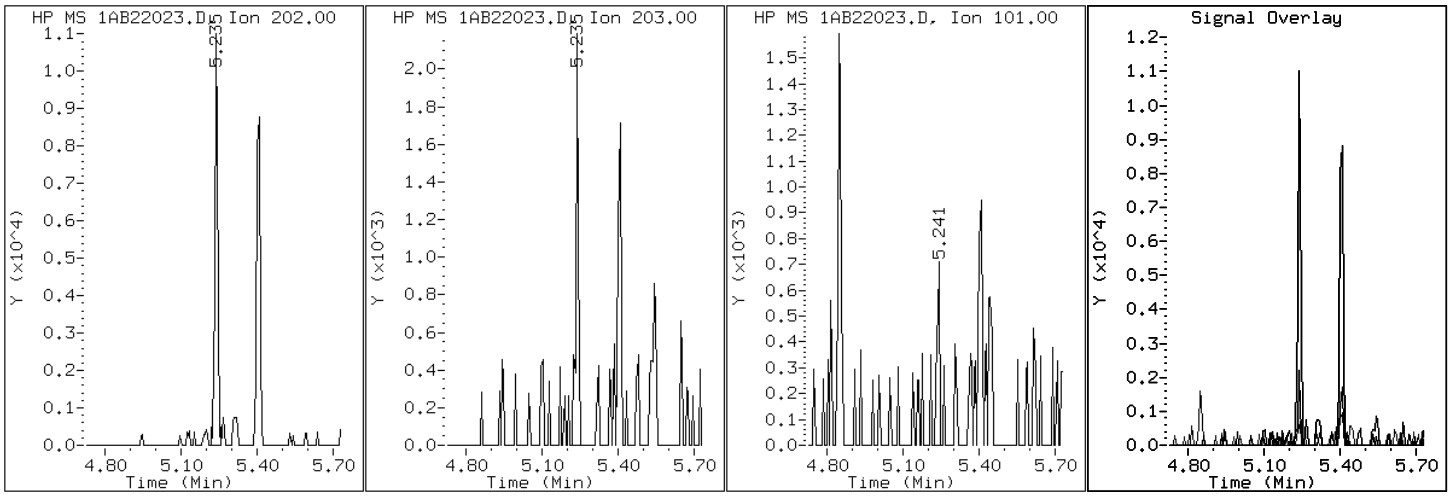
Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

Client ID: FM0161A-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a Operator: SCC

15 Fluoranthene



Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

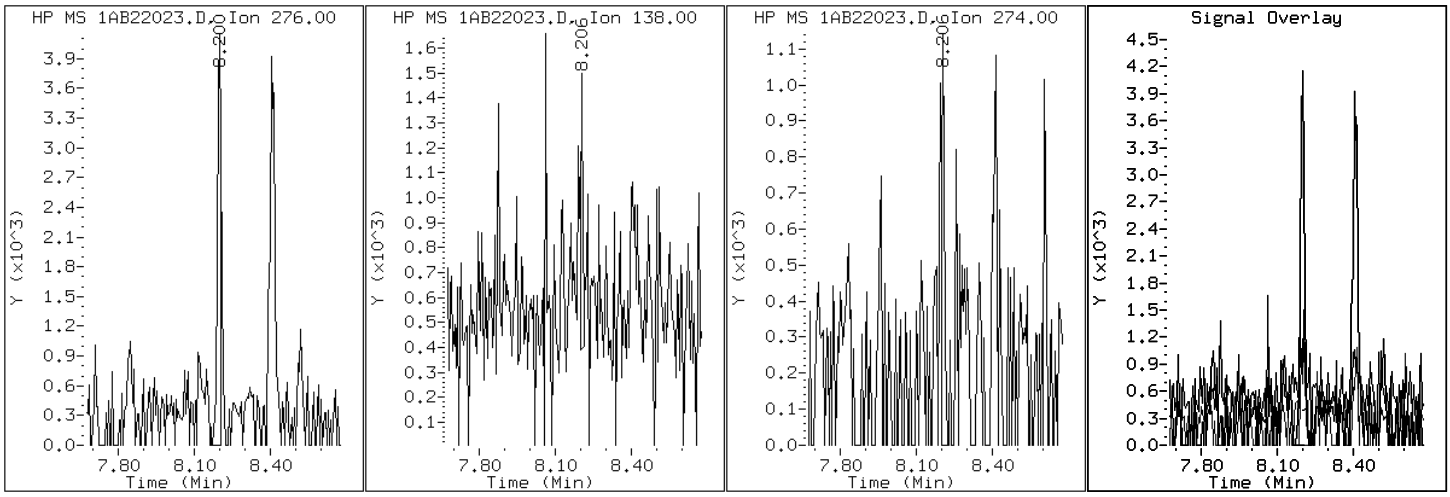
Client ID: FM0161A-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a

Operator: SCC

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



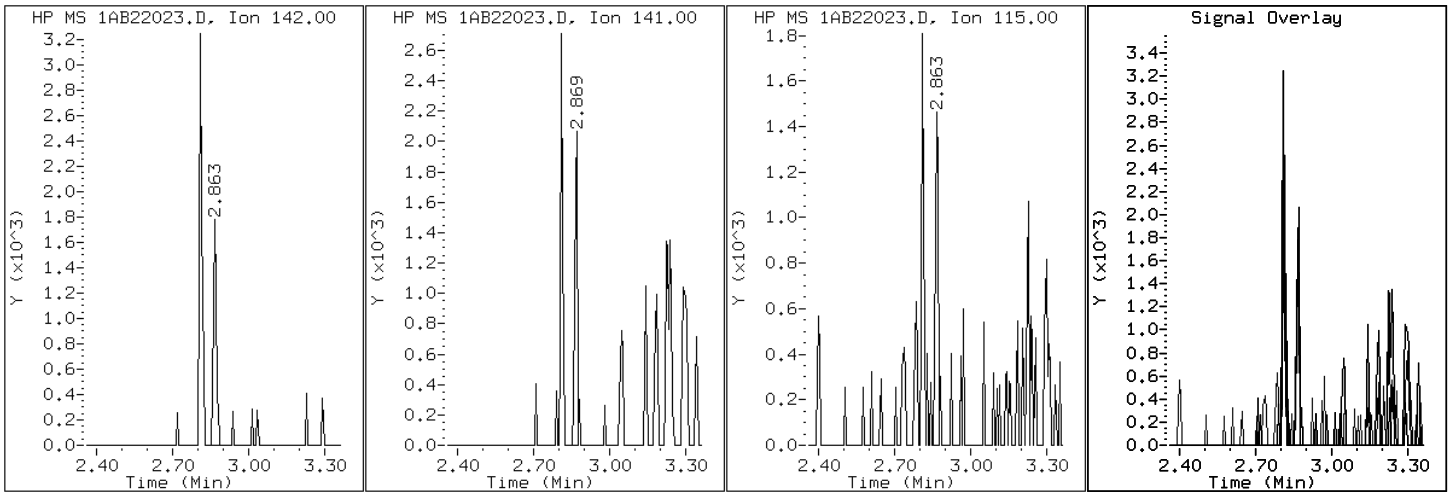
Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

Client ID: FM0161A-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a Operator: SCC

4 1-Methylnaphthalene



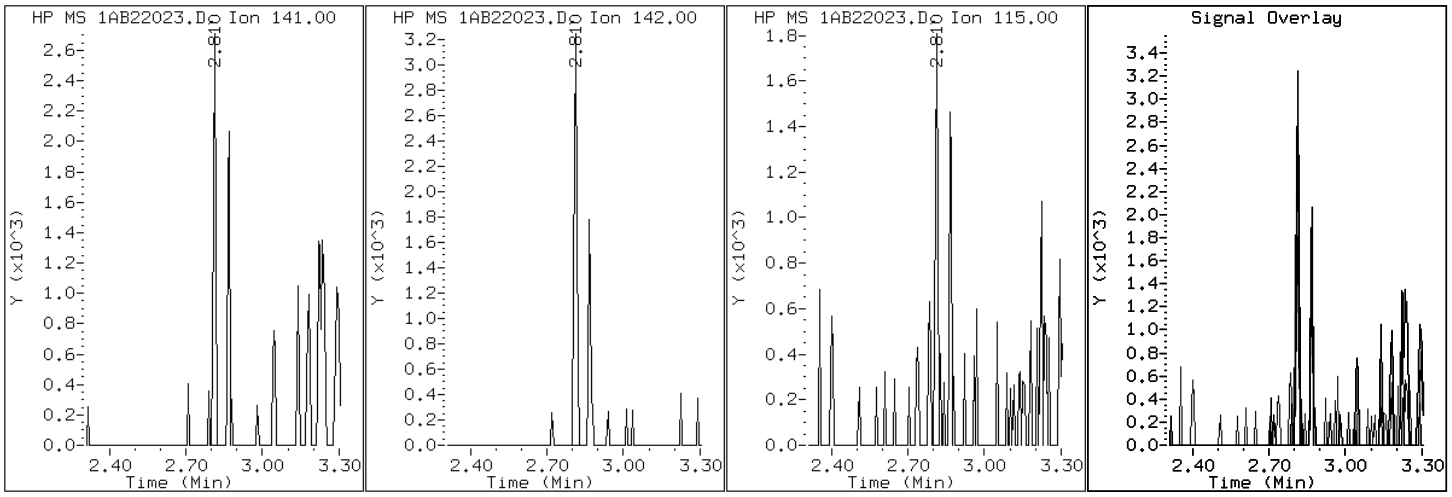
Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

Client ID: FM0161A-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

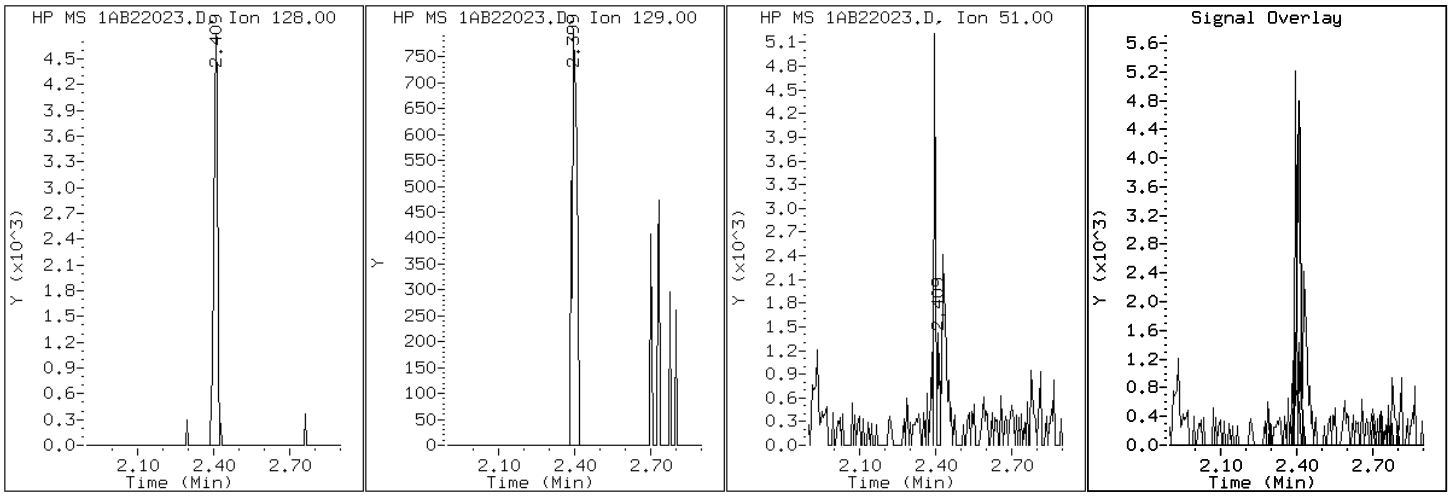
Client ID: FM0161A-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a

Operator: SCC

2 Naphthalene



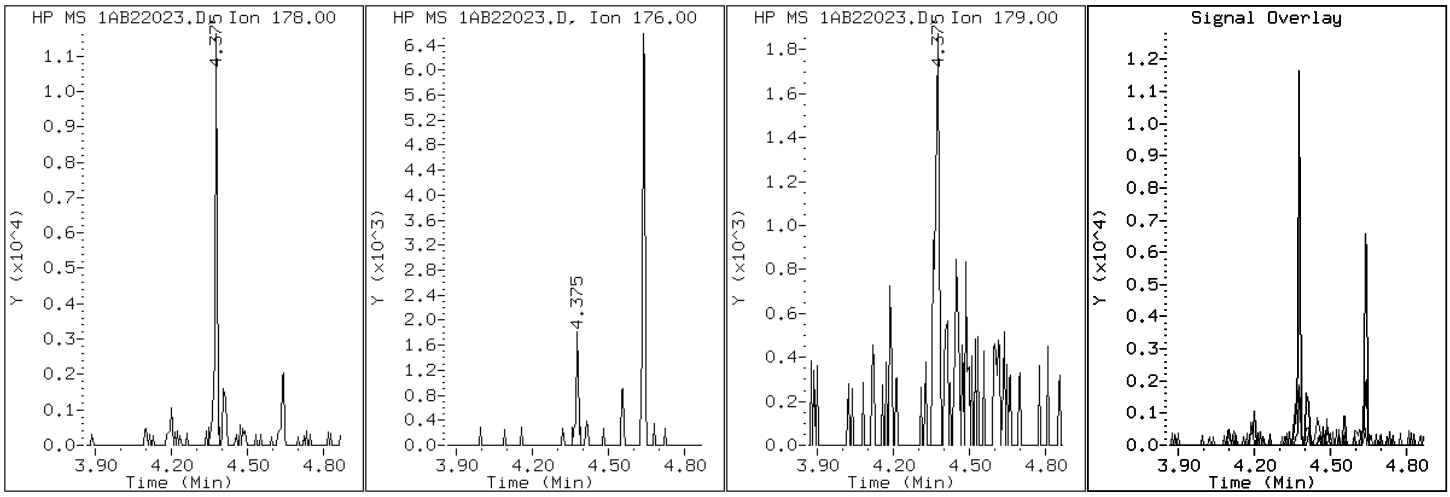
Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

Client ID: FM0161A-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a Operator: SCC

11 Phenanthrene



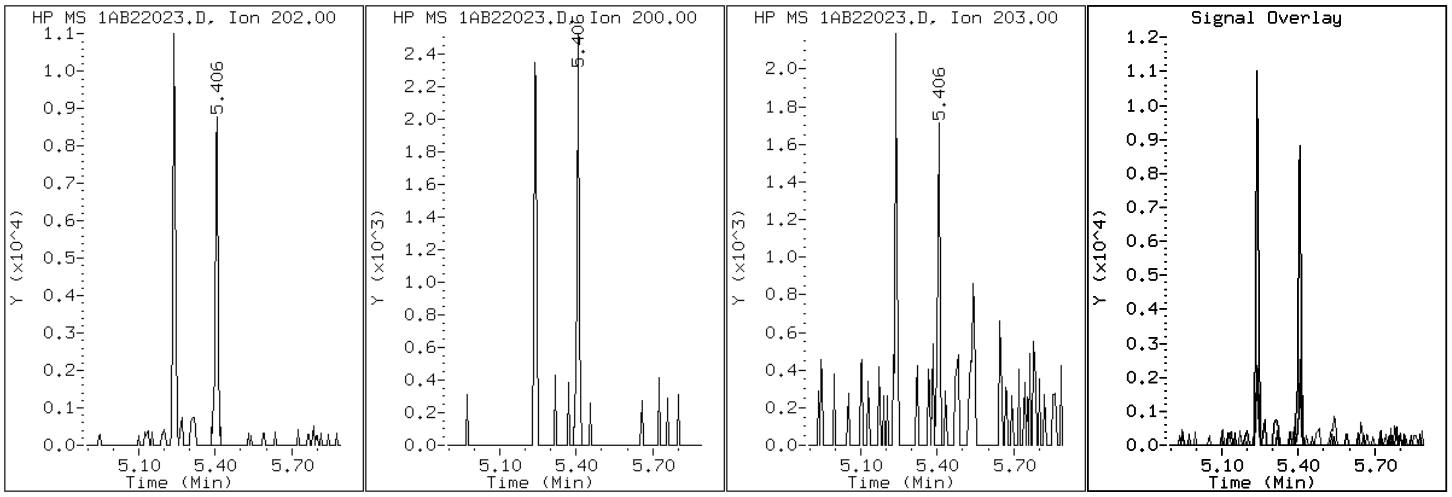
Data File: 1AB22023.D

Date: 22-FEB-2013 16:09

Client ID: FM0161A-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-64-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22023.D
Inj. Date and Time: 22-FEB-2013 16:09
Instrument ID: BSMA5973.i
Client ID: FM0161A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

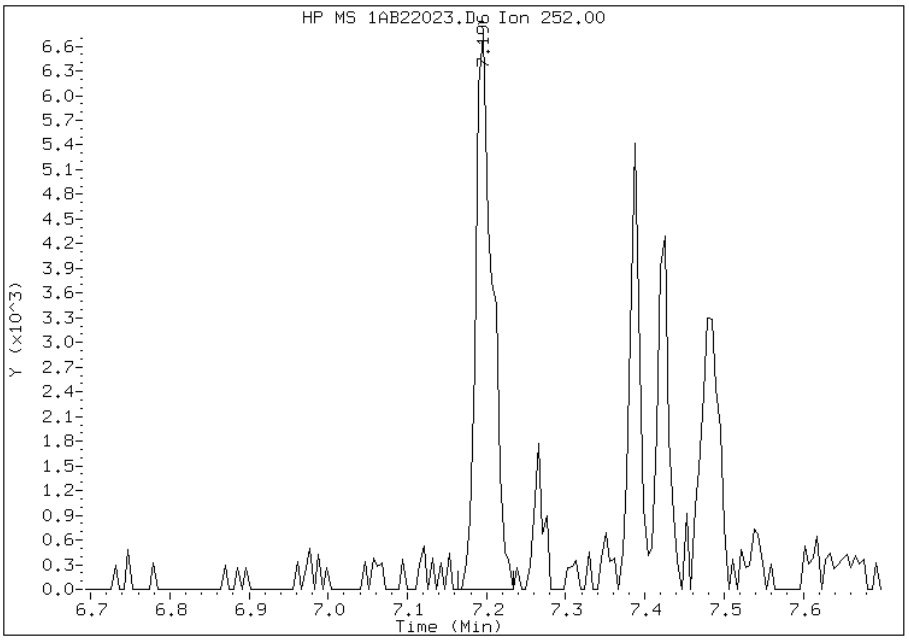
Processing Integration Results

RT: 7.20

Response: 9812

Amount: 0

Conc: 33



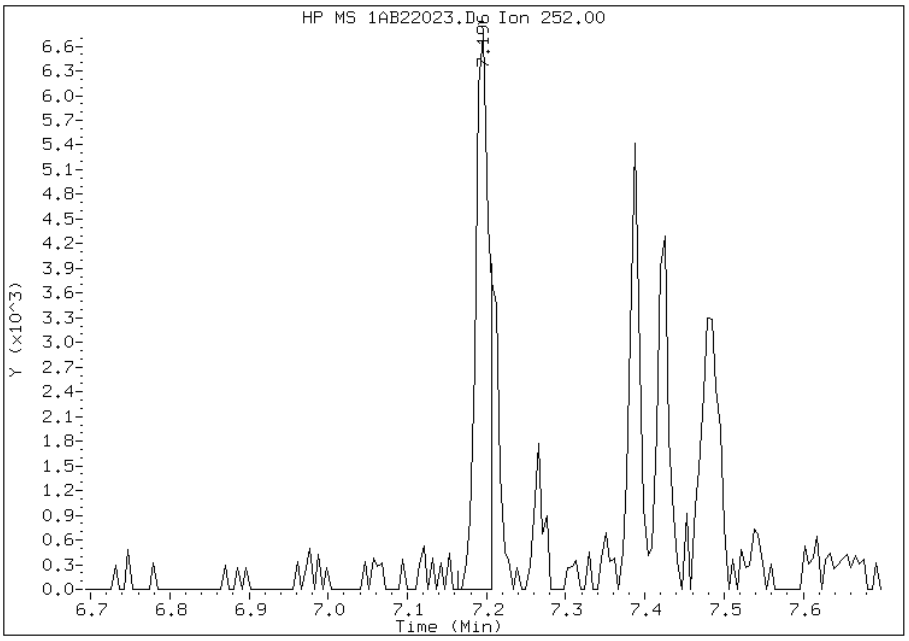
Manual Integration Results

RT: 7.20

Response: 7989

Amount: 0

Conc: 27



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22023.D
Inj. Date and Time: 22-FEB-2013 16:09
Instrument ID: BSMA5973.i
Client ID: FM0161A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

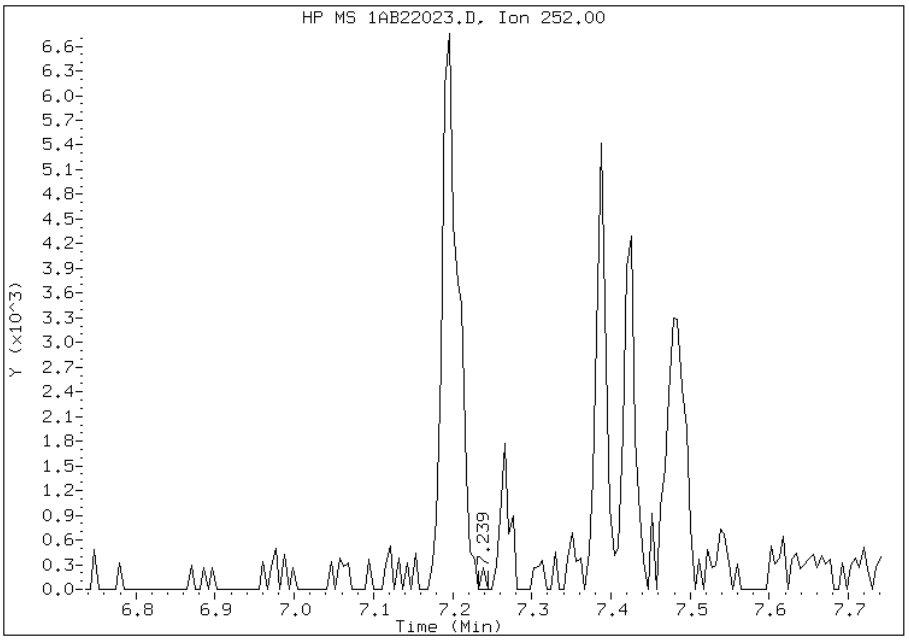
Processing Integration Results

RT: 7.24

Response: 86

Amount: 0

Conc: 0



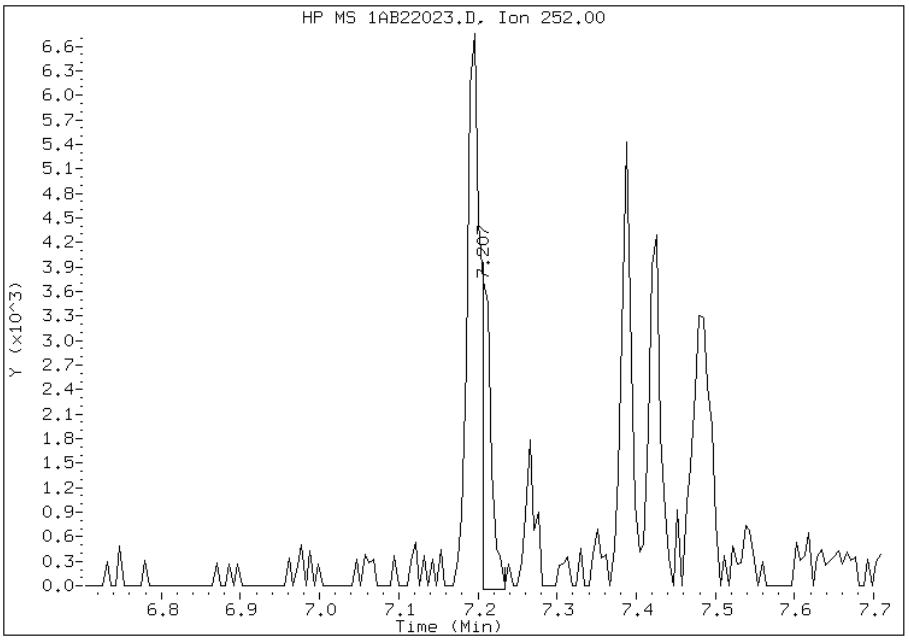
Manual Integration Results

RT: 7.21

Response: 3104

Amount: 0

Conc: 10



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22023.D
Inj. Date and Time: 22-FEB-2013 16:09
Instrument ID: BSMA5973.i
Client ID: FM0161A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/25/2013

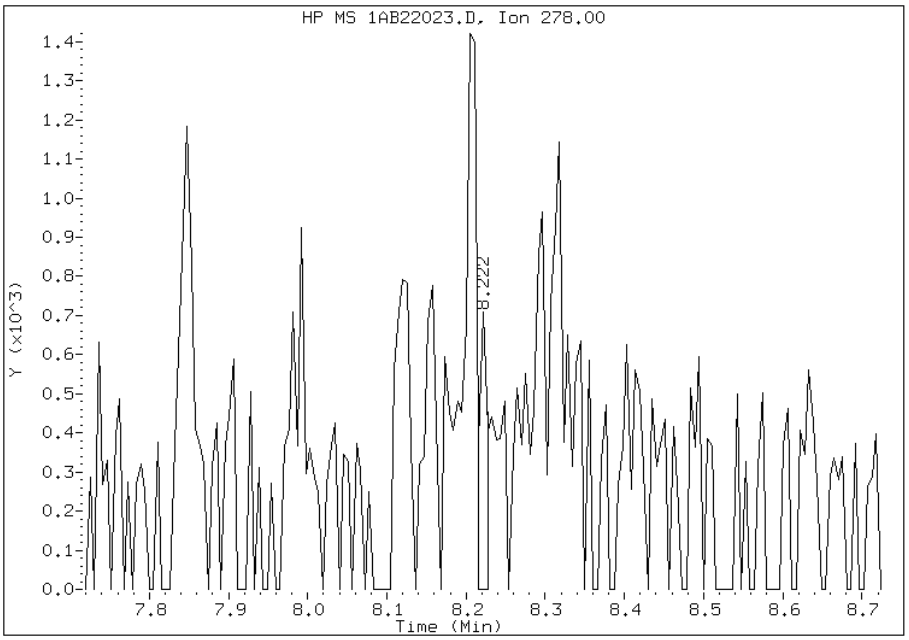
Processing Integration Results

RT: 8.22

Response: 478

Amount: 0

Conc: 2



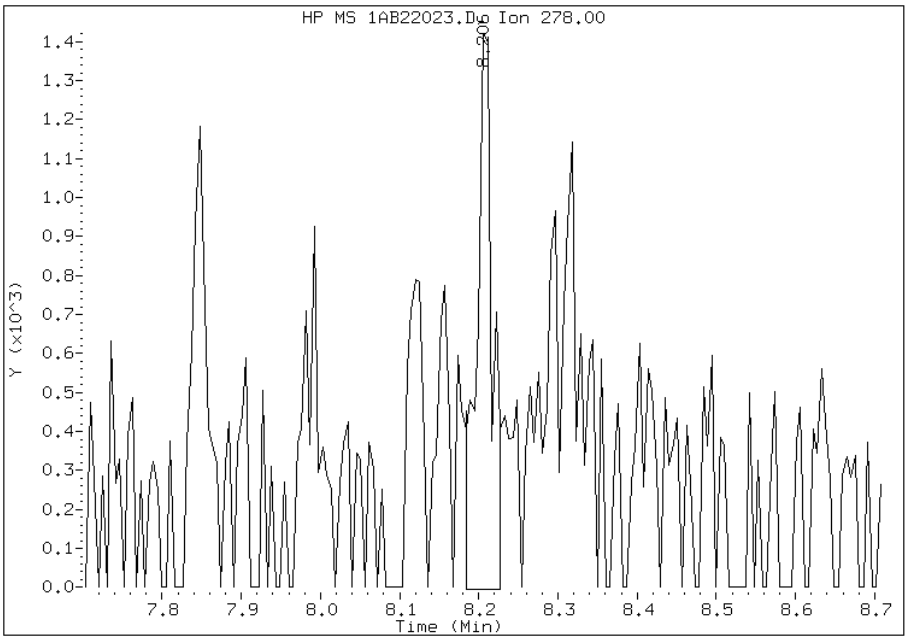
Manual Integration Results

RT: 8.21

Response: 2043

Amount: 0

Conc: 8



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22023.D
Inj. Date and Time: 22-FEB-2013 16:09
Instrument ID: BSMA5973.i
Client ID: FM0161A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

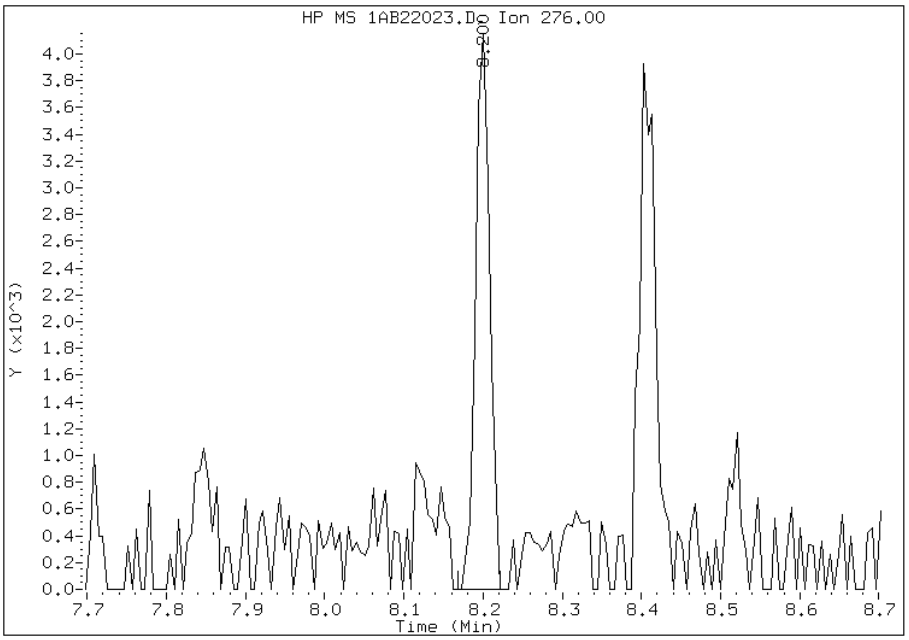
Processing Integration Results

RT: 8.20

Response: 5069

Amount: 0

Conc: 22



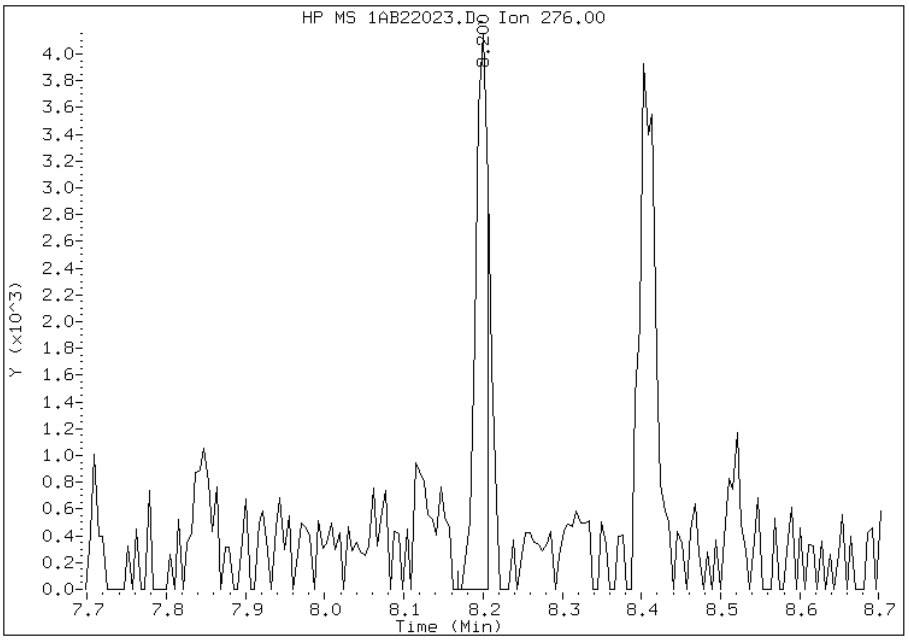
Manual Integration Results

RT: 8.20

Response: 4314

Amount: 0

Conc: 19



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0161B-CS | Lab Sample ID: 680-87496-65

Matrix: Solid | Lab File ID: 1AB22024.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:38

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.32(g) | Date Analyzed: 02/22/2013 16:25

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

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

% Moisture: 18.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | 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	6.3	J	10	5.0
56-55-3	Benzo[a]anthracene	29		9.6	4.7
50-32-8	Benzo[a]pyrene	18		12	6.2
205-99-2	Benzo[b]fluoranthene	26		15	7.3
191-24-2	Benzo[g,h,i]perylene	20	J	24	5.3
207-08-9	Benzo[k]fluoranthene	15		9.6	4.3
218-01-9	Chrysene	28		11	5.4
53-70-3	Dibenz(a,h)anthracene	8.6	J	24	4.9
206-44-0	Fluoranthene	30		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	23	J	24	8.5
90-12-0	1-Methylnaphthalene	15	J	48	5.3
91-57-6	2-Methylnaphthalene	23	J	48	8.5
91-20-3	Naphthalene	25	J	48	5.3
85-01-8	Phenanthrene	28		9.6	4.7
129-00-0	Pyrene	34		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22024.D
Lab Smp Id: 680-87496-A-65-A Client Smp ID: FM0161B-CS
Inj Date : 22-FEB-2013 16:25
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-65-a
Misc Info : 680-87496-A-65-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 24
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	15.320	Weight Extracted
M	18.129	% 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	2.399	2.397	(1.000)	1105389	40.0000	
* 6 Acenaphthene-d10	164	3.424	3.417	(1.000)	868839	40.0000	
* 10 Phenanthrene-d10	188	4.365	4.352	(1.000)	1261474	40.0000	
$ 14 o-Terphenyl	230	4.642	4.635	(1.064)	151585	8.25817	658.4046
* 18 Chrysene-d12	240	6.384	6.366	(1.000)	755208	40.0000	
* 23 Perylene-d12	264	7.484	7.456	(1.000)	1027000	40.0000	(H)
2 Naphthalene	128	2.409	2.402	(1.004)	8493	0.31886	25.4217
3 2-Methylnaphthalene	141	2.810	2.808	(1.171)	4016	0.29207	23.2856
4 1-Methylnaphthalene	142	2.869	2.861	(1.196)	2937	0.19181	15.2926
11 Phenanthrene	178	4.375	4.368	(1.002)	11011	0.35116	27.9972
12 Anthracene	178	4.407	4.400	(1.010)	2397	0.07870	6.2745
15 Fluoranthene	202	5.235	5.228	(1.199)	11657	0.37182	29.6440
16 Pyrene	202	5.401	5.394	(0.846)	9461	0.42711	34.0523
17 Benzo(a)anthracene	228	6.379	6.355	(0.999)	8314	0.36869	29.3950

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.395	6.387	(1.002)	7179	0.35597	28.3804
20 Benzo(b)fluoranthene	252	7.191	7.178	(0.961)	8377	0.32177	25.6537(M)
21 Benzo(k)fluoranthene	252	7.201	7.199	(0.962)	4853	0.18528	14.7722(QM)
22 Benzo(a)pyrene	252	7.426	7.408	(0.992)	5263	0.22075	17.5995(H)
24 Indeno(1,2,3-cd)pyrene	276	8.206	8.177	(1.096)	5922	0.28952	23.0830(MH)
25 Dibenzo(a,h)anthracene	278	8.206	8.193	(1.096)	2290	0.10744	8.5656(H)
26 Benzo(g,h,i)perylene	276	8.409	8.385	(1.123)	5329	0.24495	19.5293(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: 1AB22024.D

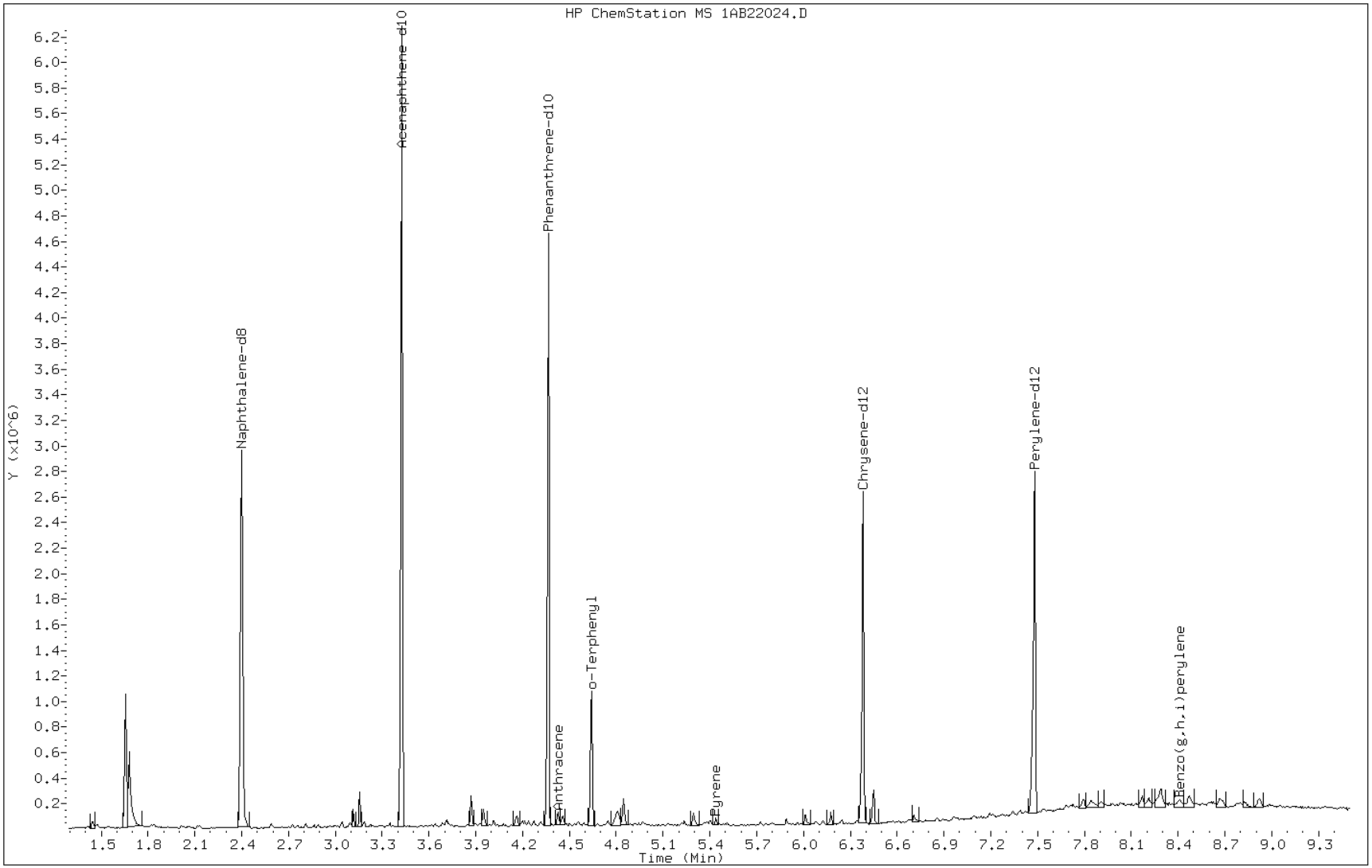
Date: 22-FEB-2013 16:25

Client ID: FM0161B-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a

Operator: SCC



Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

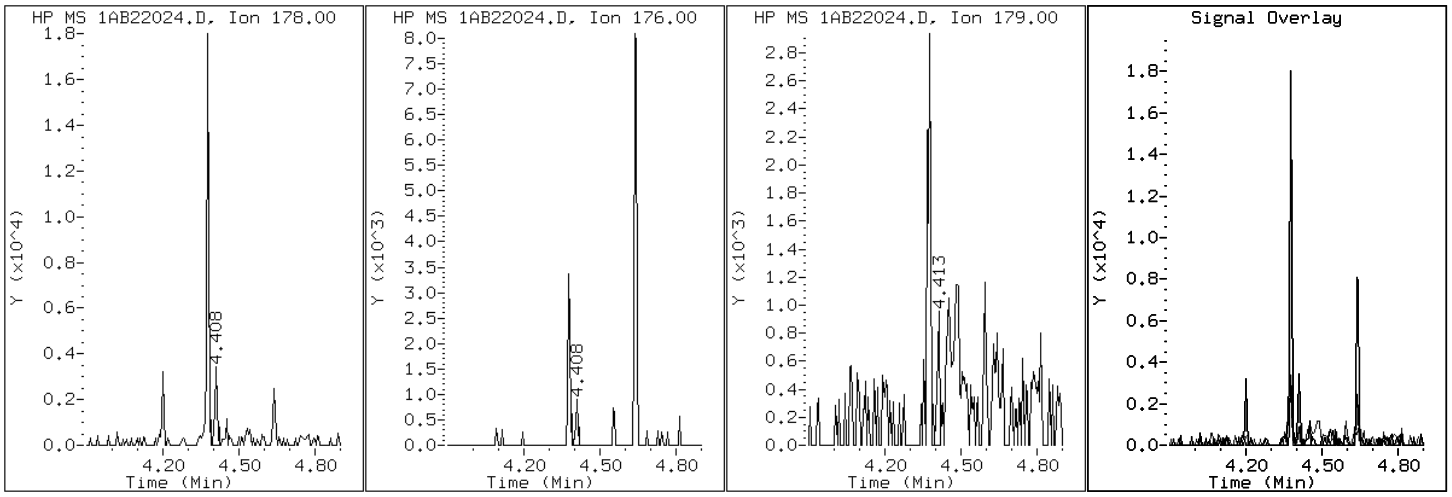
Client ID: FM0161B-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a

Operator: SCC

12 Anthracene



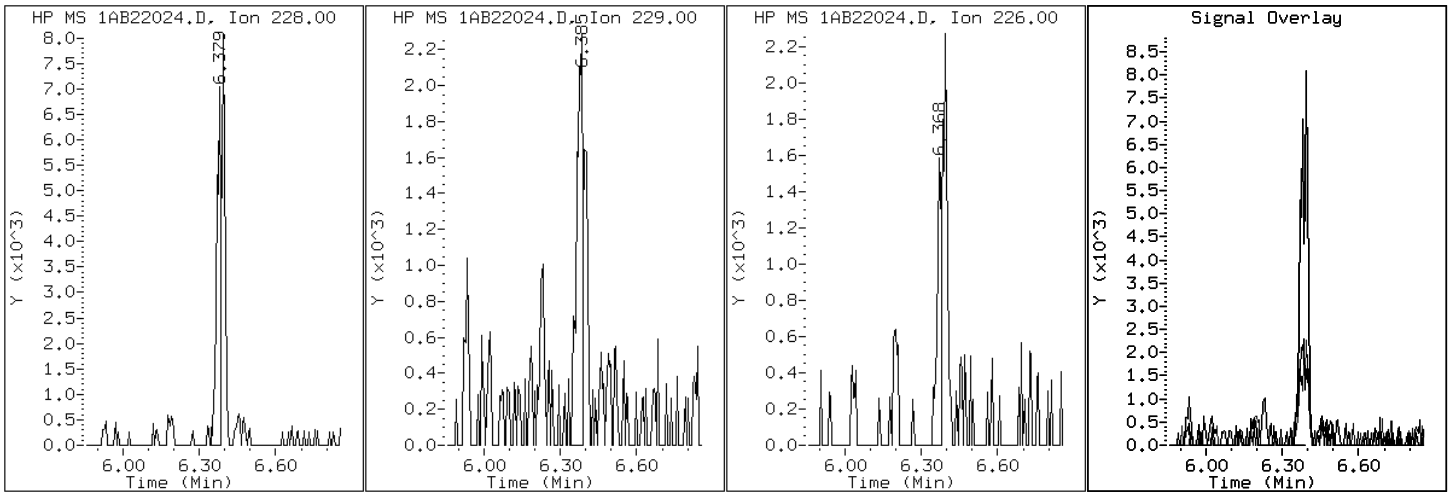
Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

Client ID: FM0161B-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

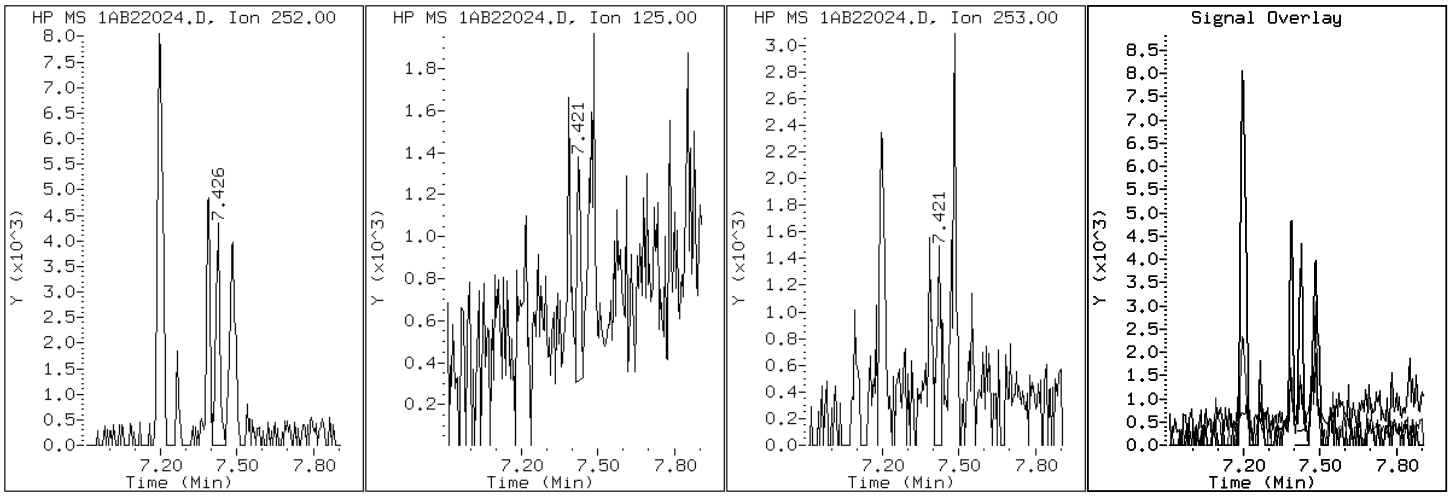
Client ID: FM0161B-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a

Operator: SCC

22 Benzo(a)pyrene



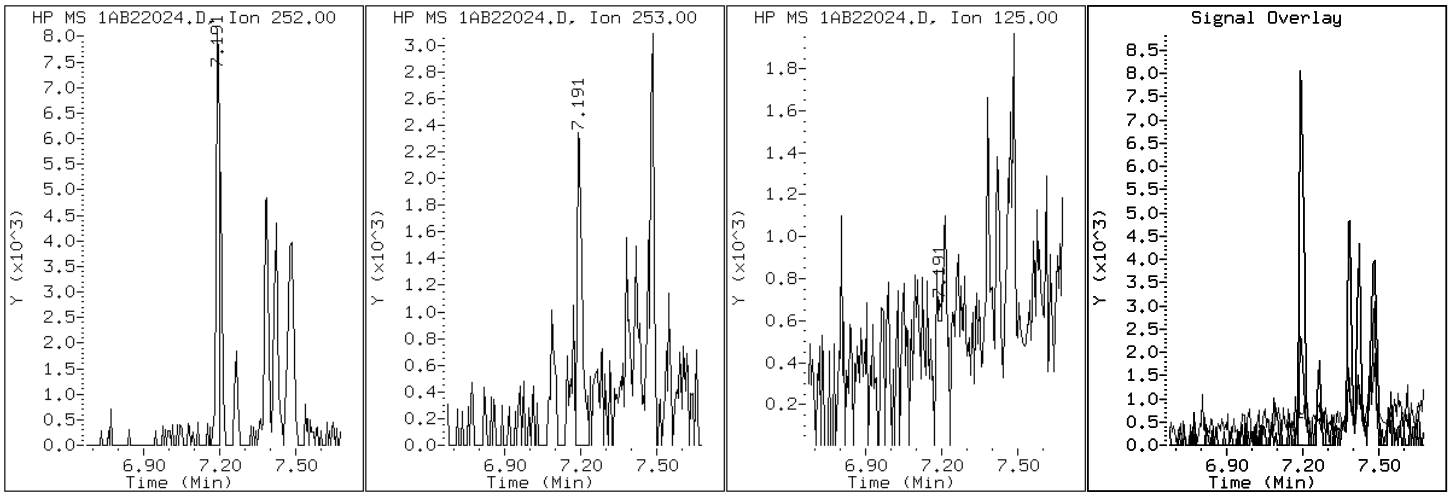
Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

Client ID: FM0161B-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

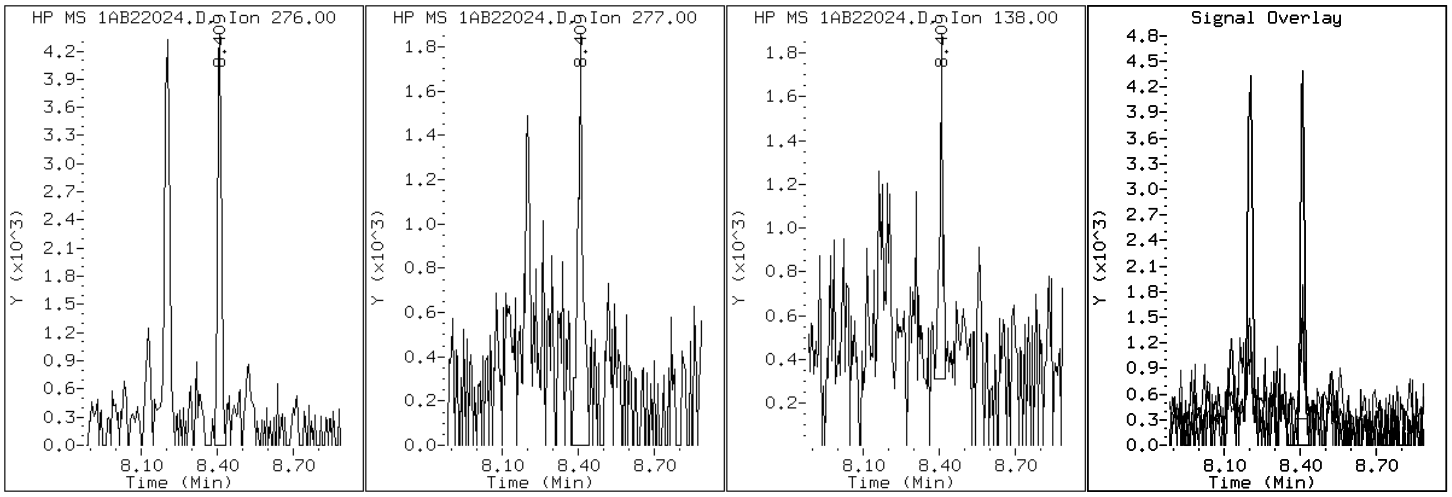
Client ID: FM0161B-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

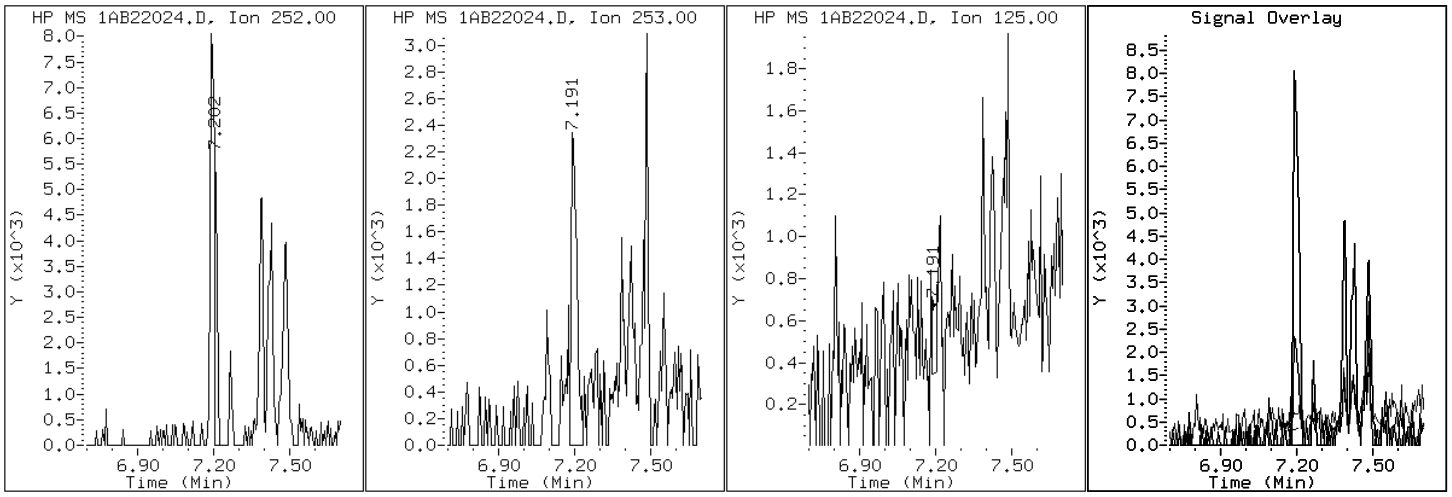
Client ID: FM0161B-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

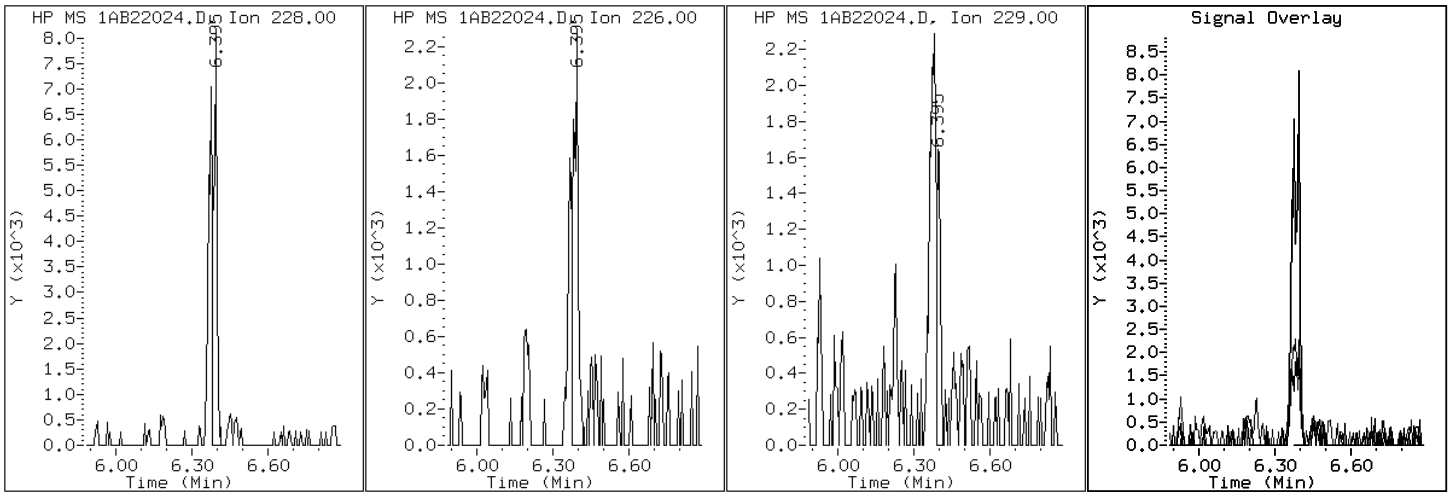
Client ID: FM0161B-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a

Operator: SCC

19 Chrysene



Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

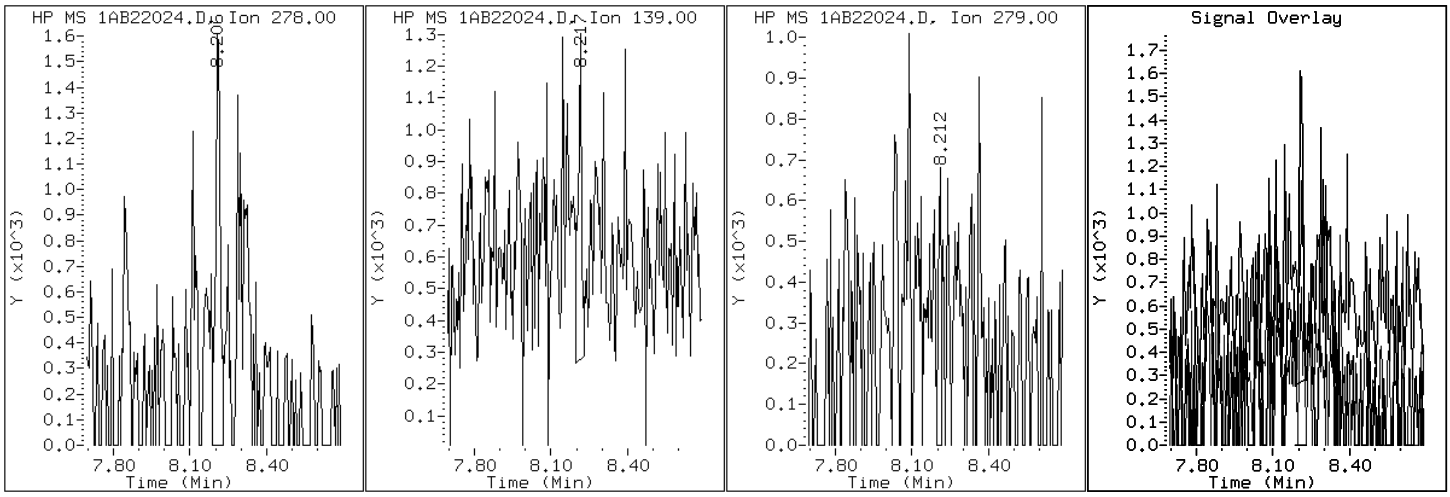
Client ID: FM0161B-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

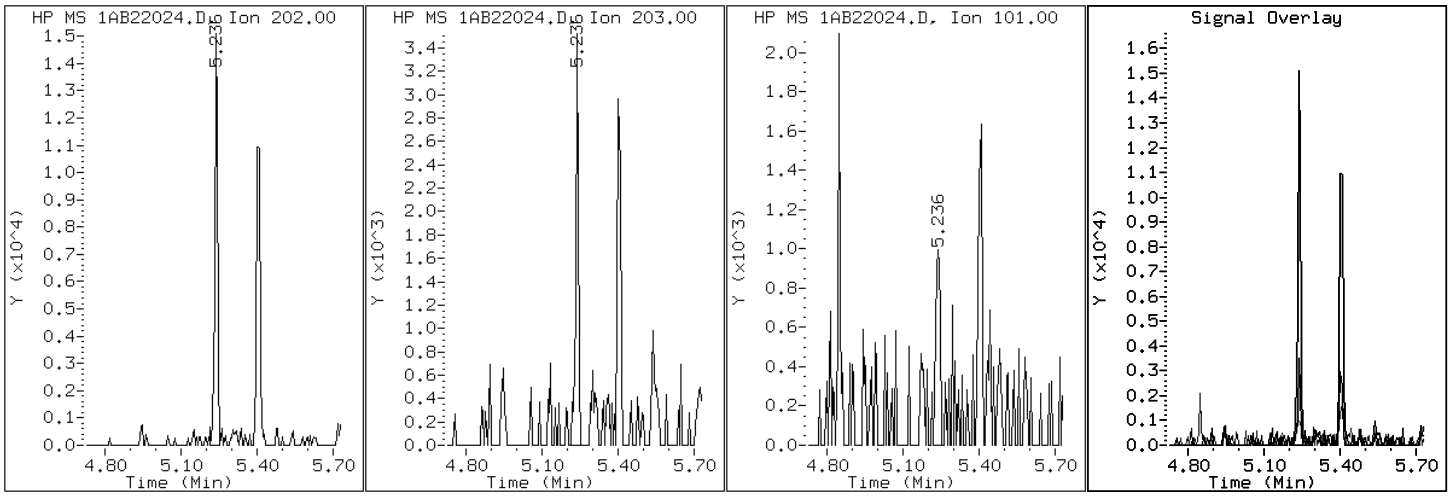
Client ID: FM0161B-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a

Operator: SCC

15 Fluoranthene



Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

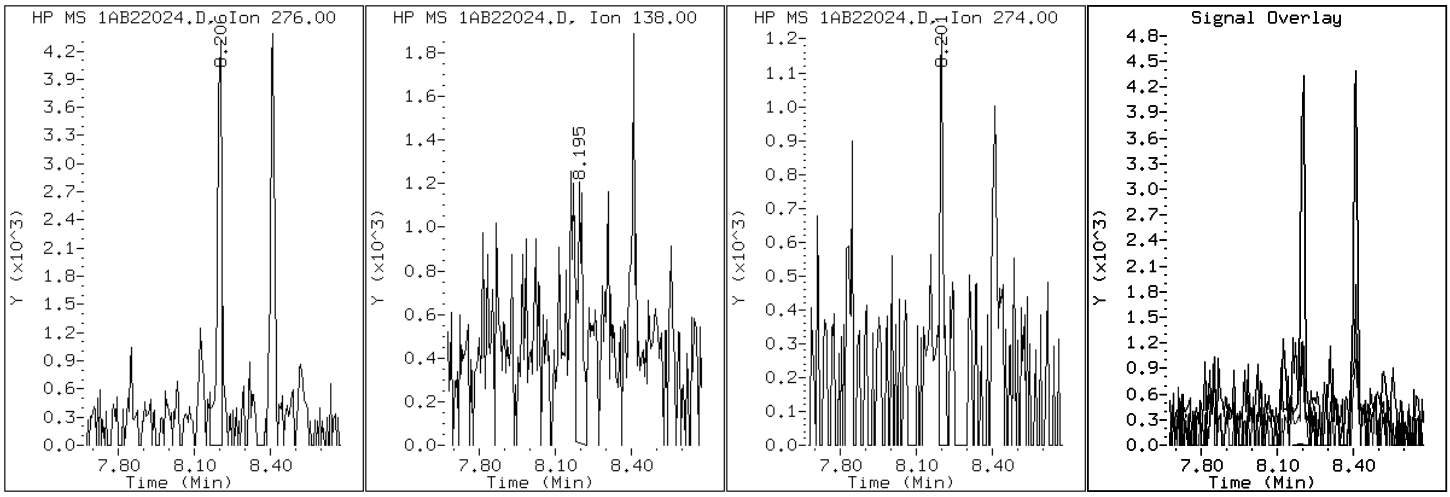
Client ID: FM0161B-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a

Operator: SCC

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



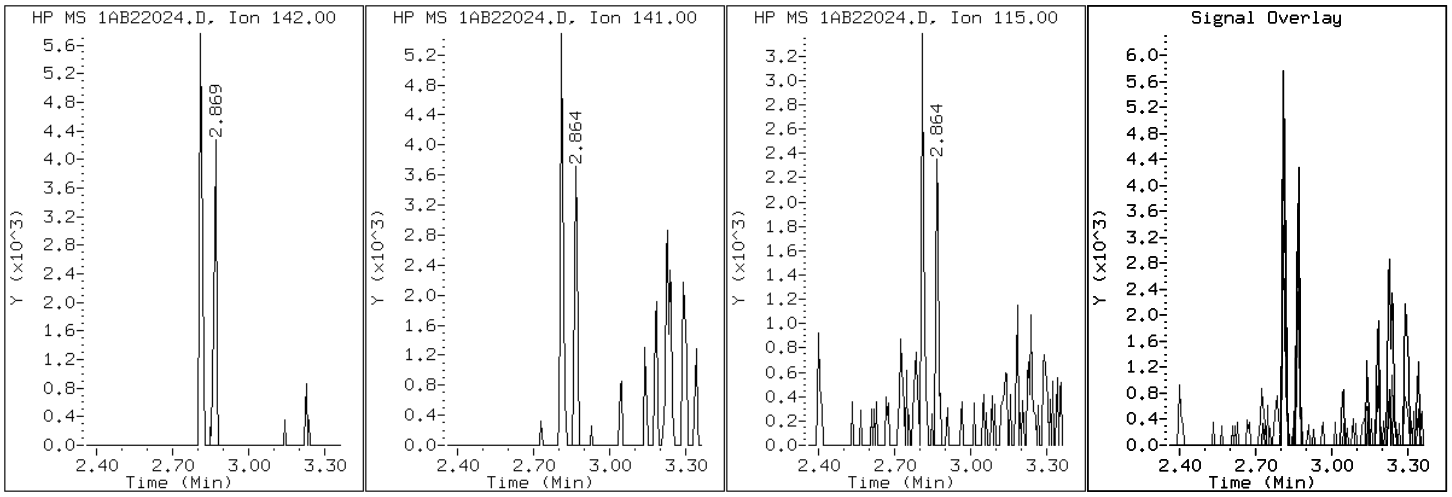
Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

Client ID: FM0161B-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a Operator: SCC

4 1-Methylnaphthalene



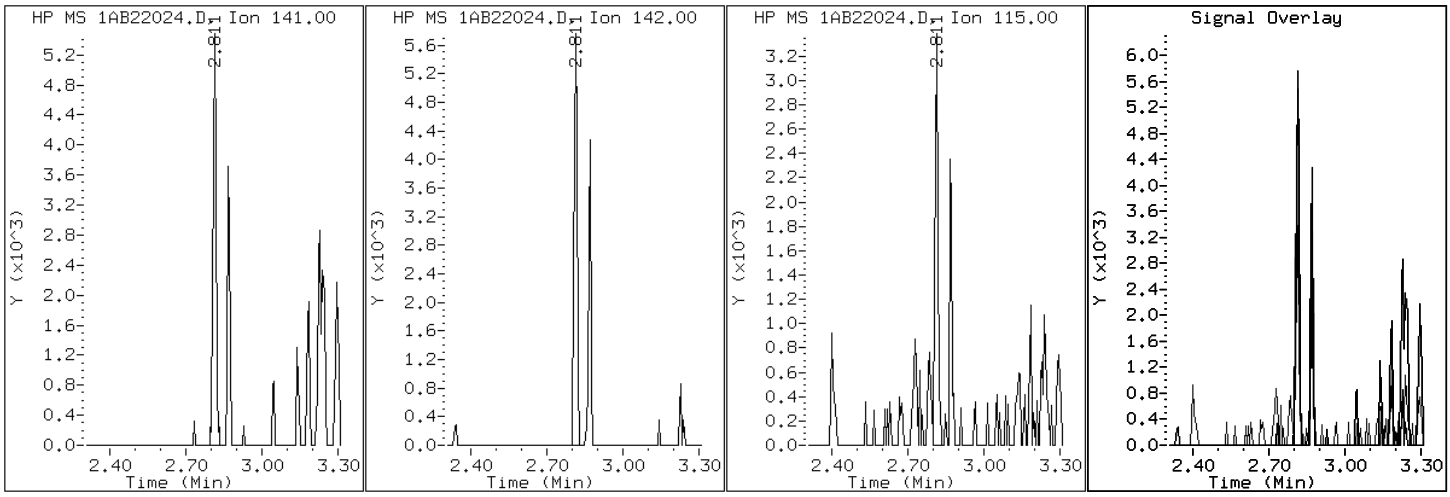
Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

Client ID: FM0161B-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a Operator: SCC

3 2-Methylnaphthalene



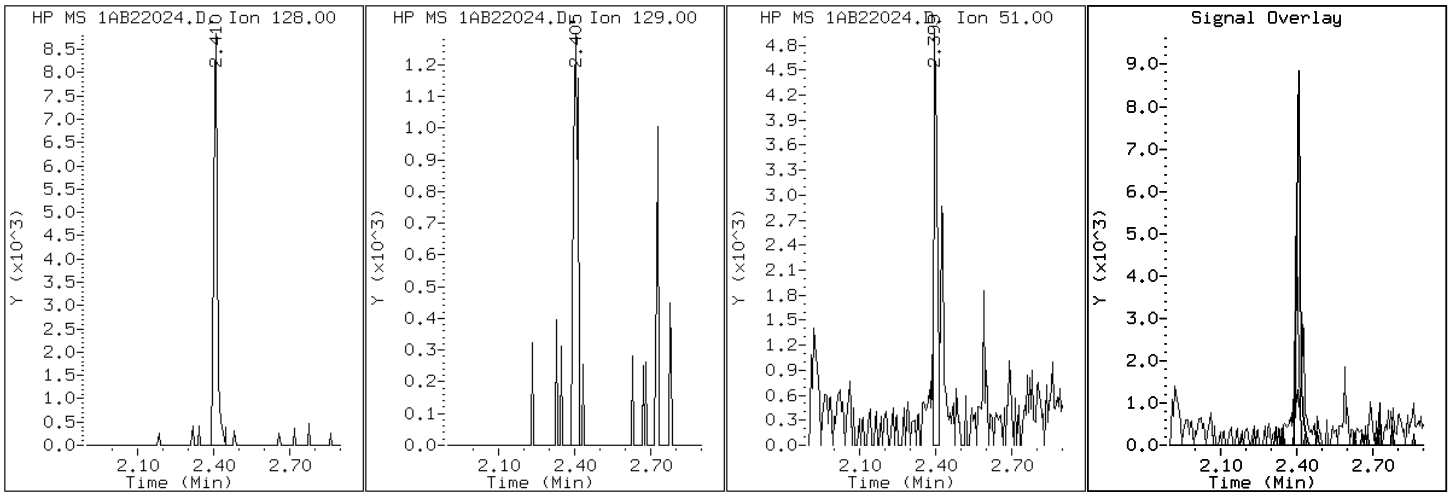
Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

Client ID: FM0161B-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a Operator: SCC

2 Naphthalene



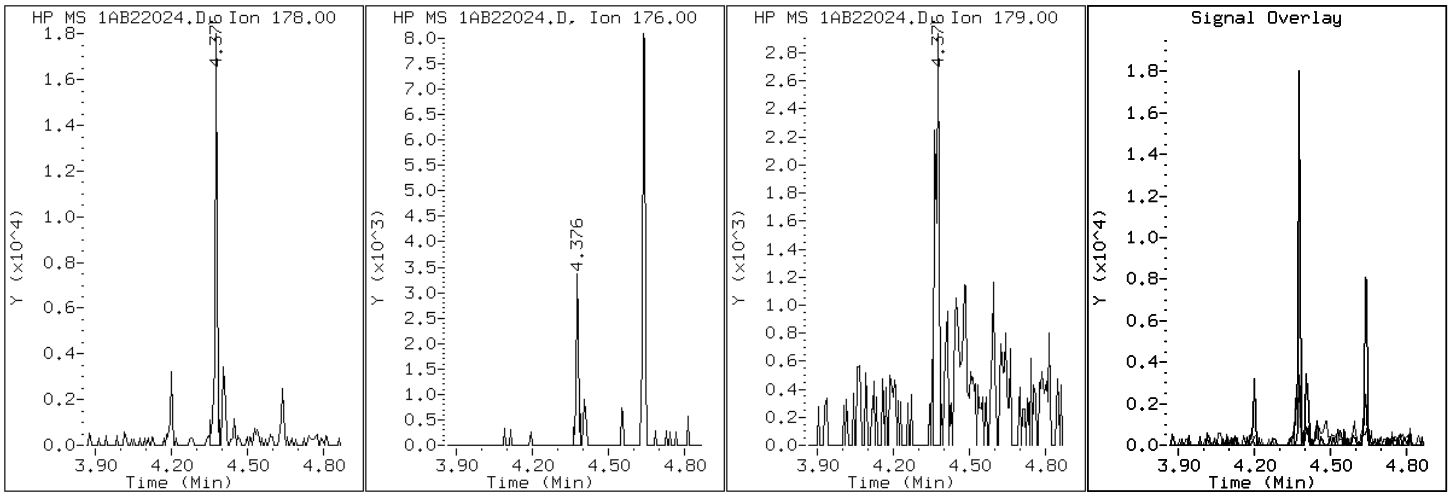
Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

Client ID: FM0161B-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a Operator: SCC

11 Phenanthrene



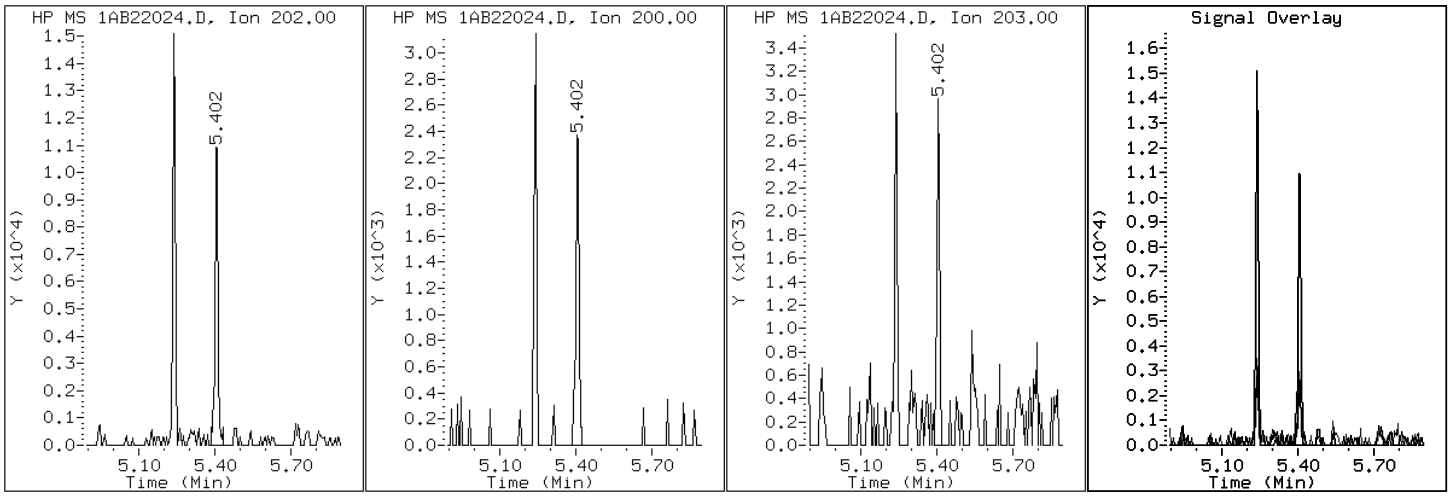
Data File: 1AB22024.D

Date: 22-FEB-2013 16:25

Client ID: FM0161B-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-65-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22024.D
Inj. Date and Time: 22-FEB-2013 16:25
Instrument ID: BSMA5973.i
Client ID: FM0161B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

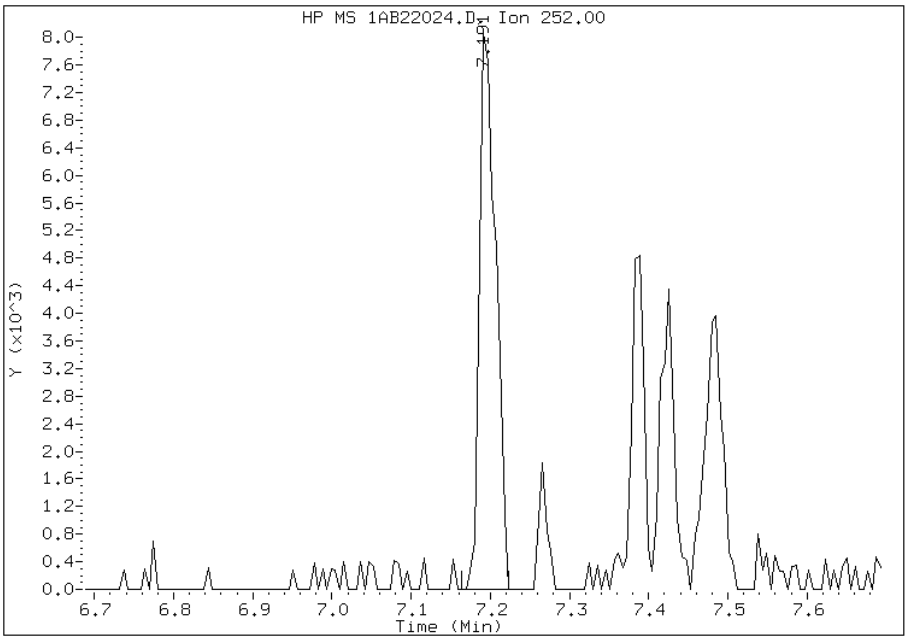
Processing Integration Results

RT: 7.19

Response: 11384

Amount: 0

Conc: 35



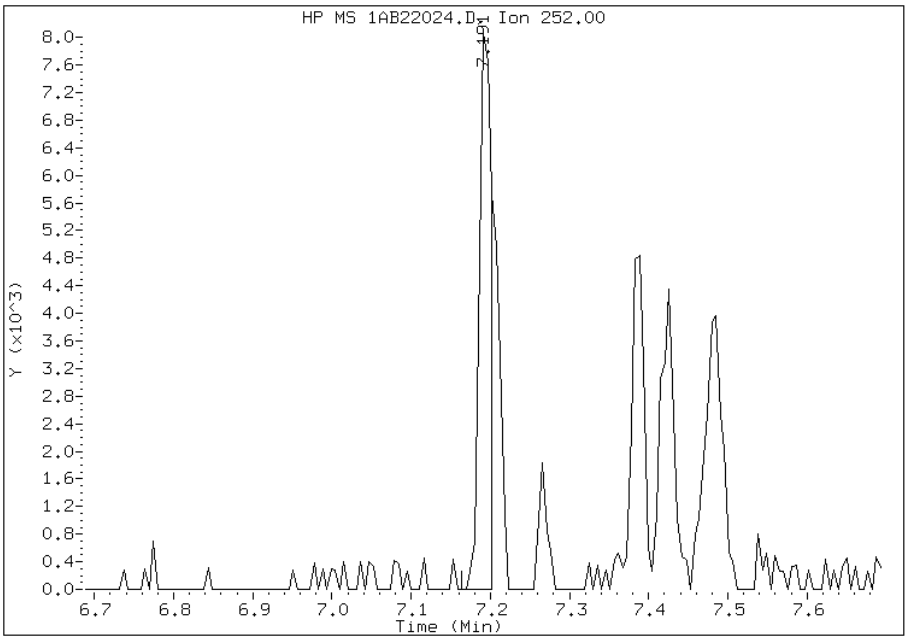
Manual Integration Results

RT: 7.19

Response: 8377

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22024.D
Inj. Date and Time: 22-FEB-2013 16:25
Instrument ID: BSMA5973.i
Client ID: FM0161B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

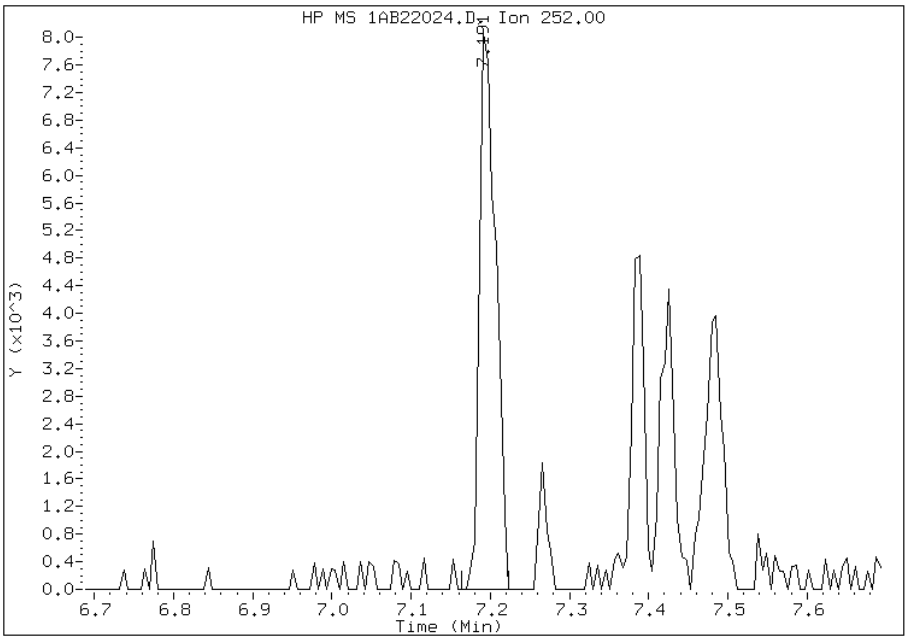
Processing Integration Results

RT: 7.19

Response: 11384

Amount: 0

Conc: 35



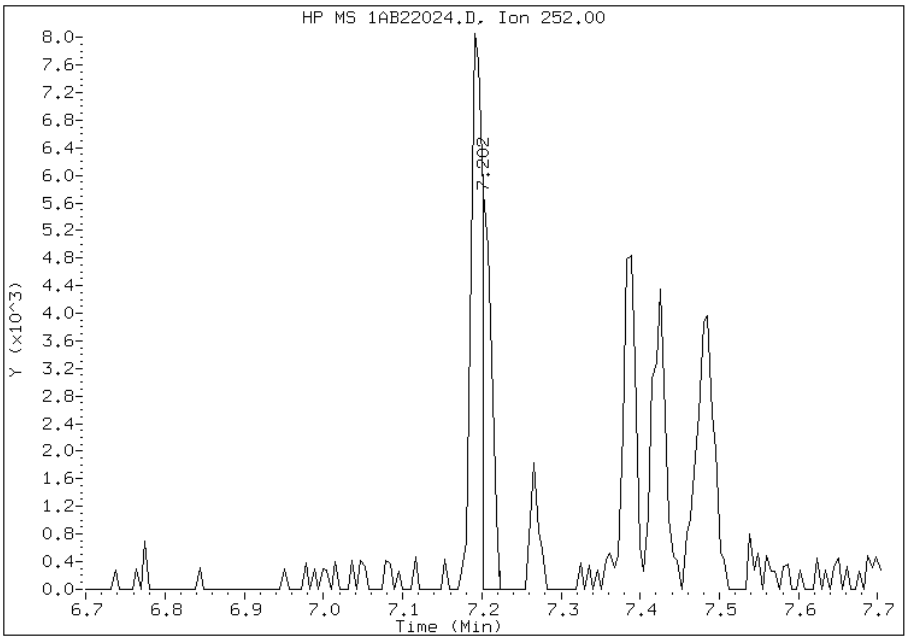
Manual Integration Results

RT: 7.20

Response: 4853

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22024.D
Inj. Date and Time: 22-FEB-2013 16:25
Instrument ID: BSMA5973.i
Client ID: FM0161B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

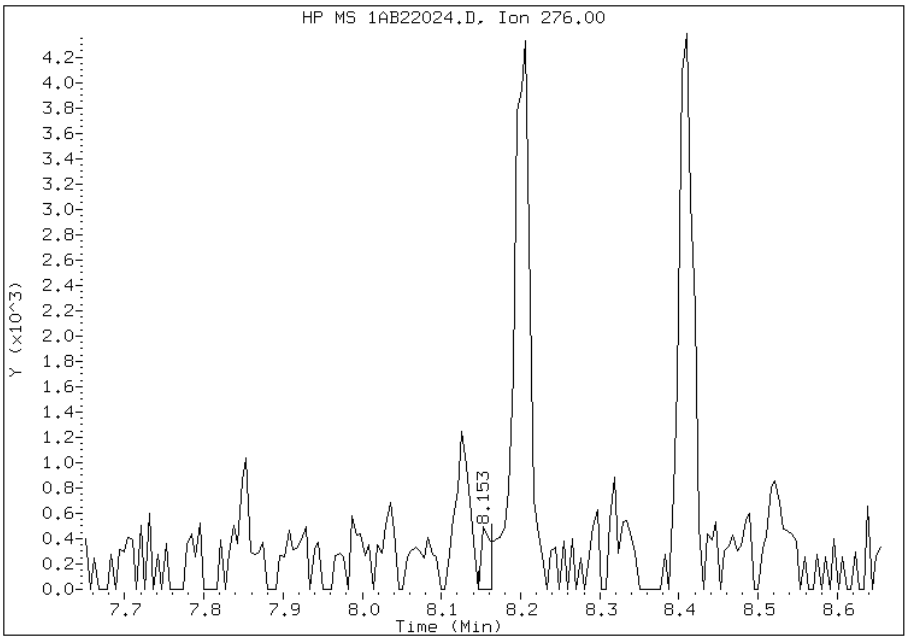
Processing Integration Results

RT: 8.15

Response: 407

Amount: 0

Conc: 2



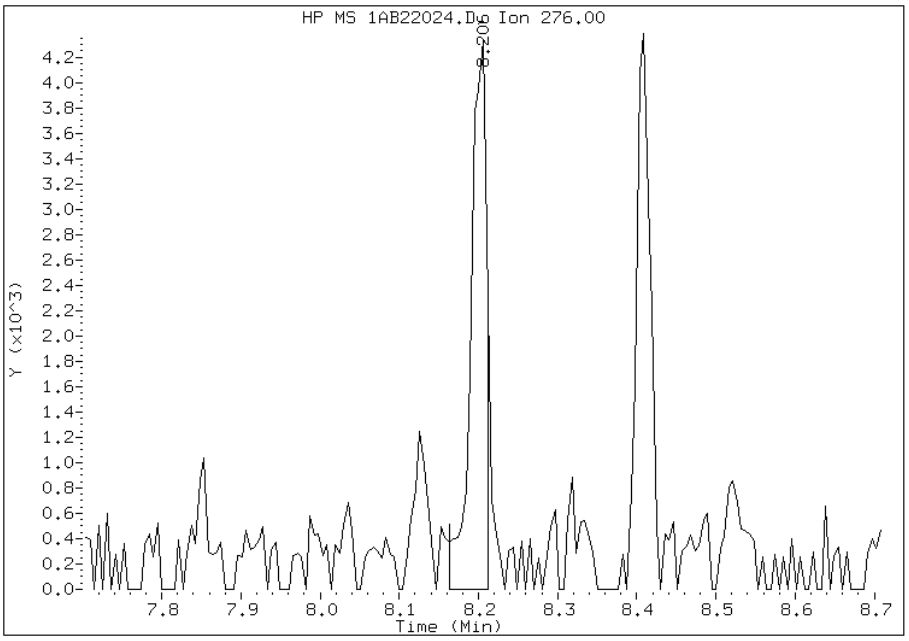
Manual Integration Results

RT: 8.21

Response: 5922

Amount: 0

Conc: 23



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0161C-CS | Lab Sample ID: 680-87496-66

Matrix: Solid | Lab File ID: 1AB22030.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:45

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.04(g) | Date Analyzed: 02/22/2013 17:55

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

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

% Moisture: 7.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | 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	20	J	36	18
56-55-3	Benzo[a]anthracene	110		34	17
50-32-8	Benzo[a]pyrene	57		45	22
205-99-2	Benzo[b]fluoranthene	64		52	26
191-24-2	Benzo[g,h,i]perylene	50	J	86	19
207-08-9	Benzo[k]fluoranthene	32	J	34	15
218-01-9	Chrysene	53		39	19
53-70-3	Dibenz(a,h)anthracene	19	J	86	18
206-44-0	Fluoranthene	77	J	86	17
86-73-7	Fluorene	86	U	86	18
193-39-5	Indeno[1,2,3-cd]pyrene	39	J	86	30
90-12-0	1-Methylnaphthalene	26	J	170	19
91-57-6	2-Methylnaphthalene	42	J	170	30
91-20-3	Naphthalene	44	J	170	19
85-01-8	Phenanthrene	77		34	17
129-00-0	Pyrene	74	J	86	16

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\BSMA5973.i\1A022213_IC.b\1AB22030.D
Lab Smp Id: 680-87496-A-66-A Client Smp ID: FM0161C-CS
Inj Date : 22-FEB-2013 17:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-66-a
Misc Info : 680-87496-A-66-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 30
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	15.040	Weight Extracted
M	7.110	% 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	2.400	2.397	(1.000)	1011586	40.0000	
* 6 Acenaphthene-d10	164	3.426	3.417	(1.000)	812979	40.0000	
* 10 Phenanthrene-d10	188	4.366	4.352	(1.000)	1118743	40.0000	
$ 14 o-Terphenyl	230	4.638	4.635	(1.062)	32138	1.97421	565.2442
* 18 Chrysene-d12	240	6.385	6.366	(1.000)	750931	40.0000	
* 23 Perylene-d12	264	7.480	7.456	(1.000)	1033583	40.0000	
2 Naphthalene	128	2.411	2.402	(1.004)	3761	0.15429	44.1766(Q)
3 2-Methylnaphthalene	141	2.811	2.808	(1.171)	1847	0.14678	42.0249
4 1-Methylnaphthalene	142	2.865	2.861	(1.194)	1284	0.09163	26.2355(Q)
11 Phenanthrene	178	4.376	4.368	(1.002)	7442	0.26762	76.6229
12 Anthracene	178	4.408	4.400	(1.010)	1900	0.07034	20.1394
15 Fluoranthene	202	5.237	5.228	(1.199)	7486	0.26924	77.0869
16 Pyrene	202	5.402	5.394	(0.846)	5707	0.25910	74.1851
17 Benzo(a)anthracene	228	6.380	6.355	(0.999)	8357	0.37271	106.7121(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.396	6.387	(1.002)	3738	0.18640	53.3695(QMH)
20 Benzo(b)fluoranthene	252	7.192	7.178	(0.961)	5821	0.22216	63.6088(M)
21 Benzo(k)fluoranthene	252	7.208	7.199	(0.964)	2926	0.11100	31.7811(QMH)
22 Benzo(a)pyrene	252	7.427	7.408	(0.993)	4757	0.19825	56.7620
24 Indeno(1,2,3-cd)pyrene	276	8.196	8.177	(1.096)	2783	0.13519	38.7074(M)
25 Dibenzo(a,h)anthracene	278	8.207	8.193	(1.097)	1422	0.06629	18.9792(Q)
26 Benzo(g,h,i)perylene	276	8.410	8.385	(1.124)	3856	0.17611	50.4238

QC Flag Legend

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

Data File: 1AB22030.D

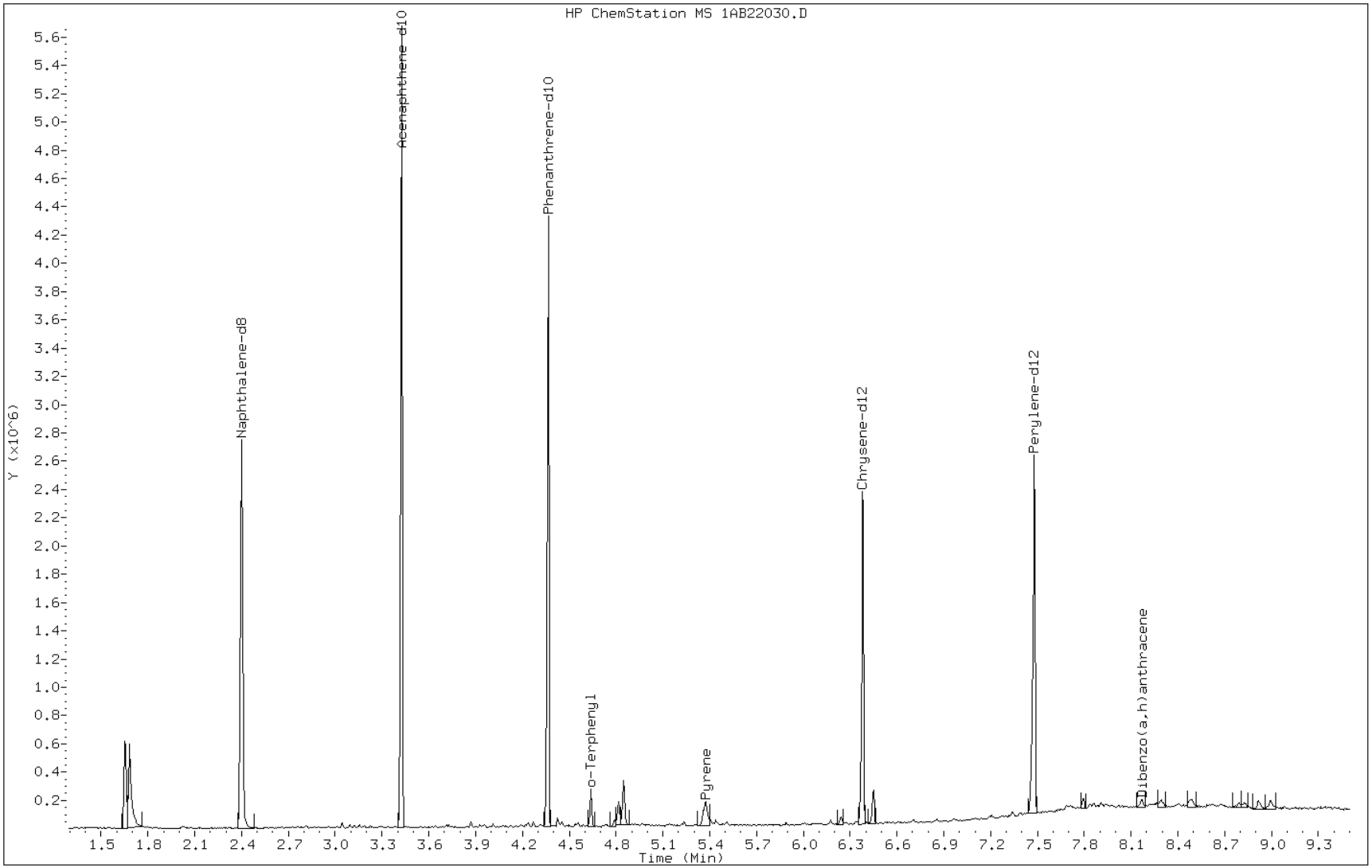
Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a

Operator: SCC



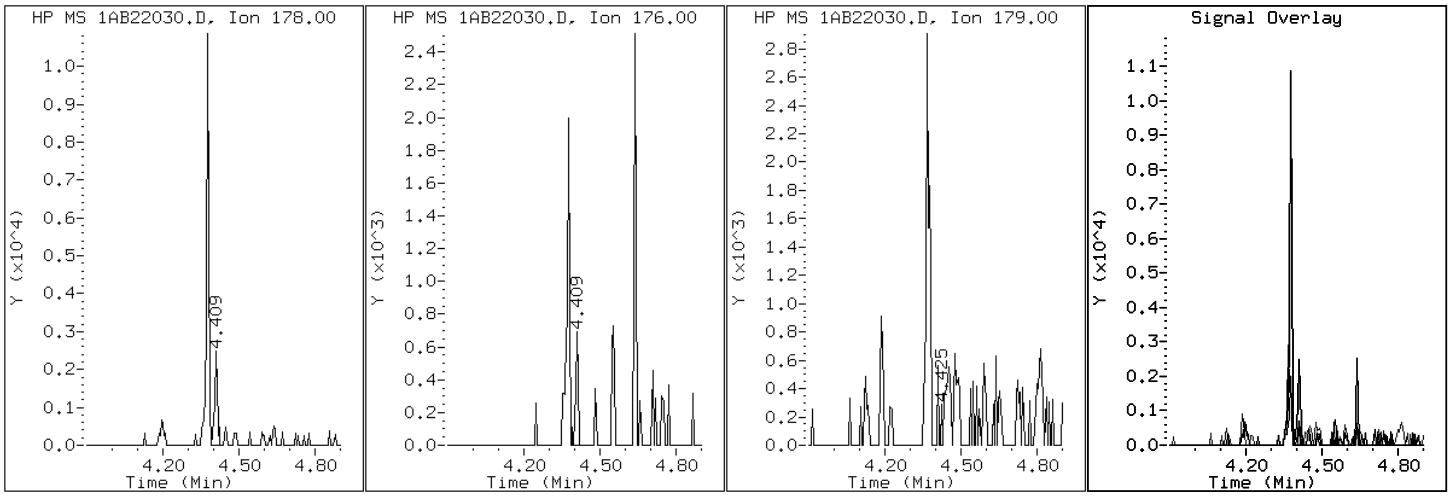
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a Operator: SCC

12 Anthracene



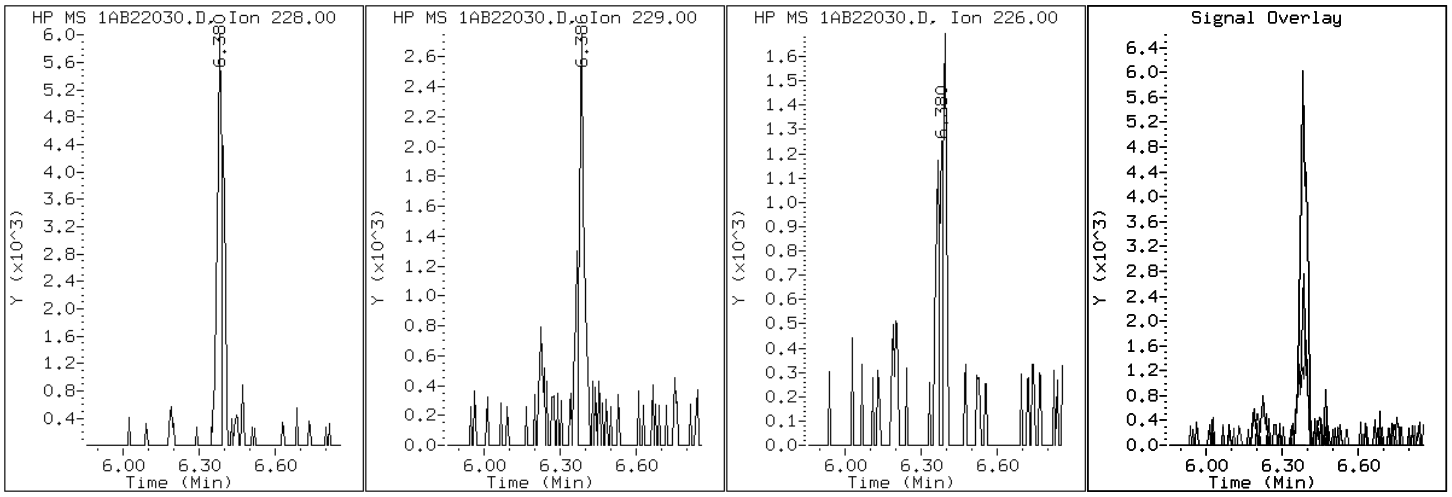
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS | Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a | Operator: SCC

17 Benzo(a)anthracene



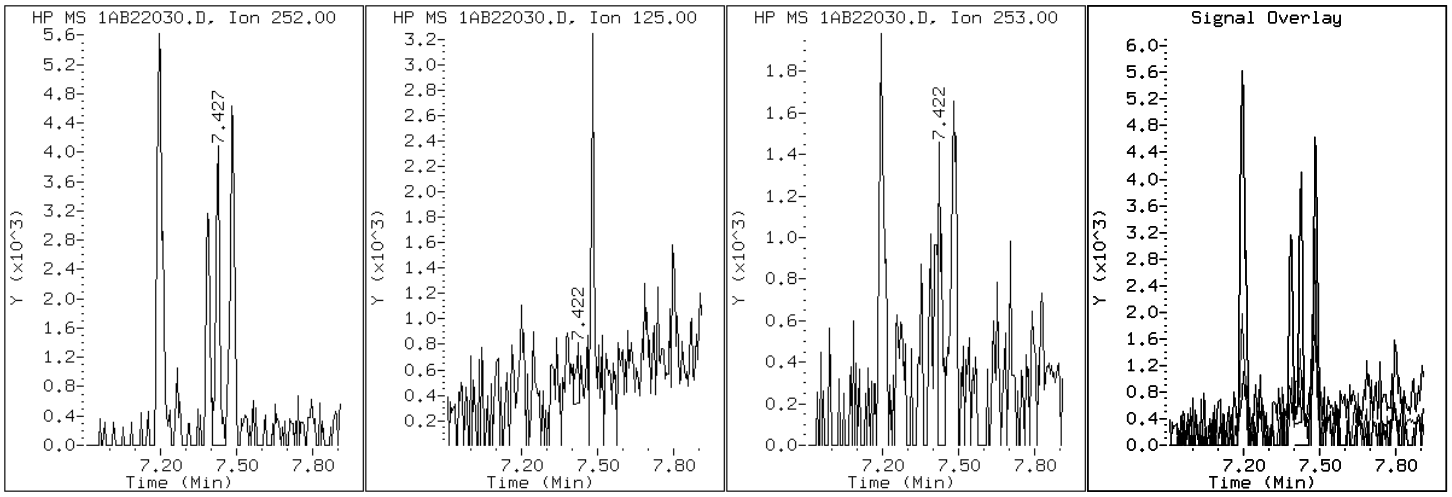
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a Operator: SCC

22 Benzo(a)pyrene



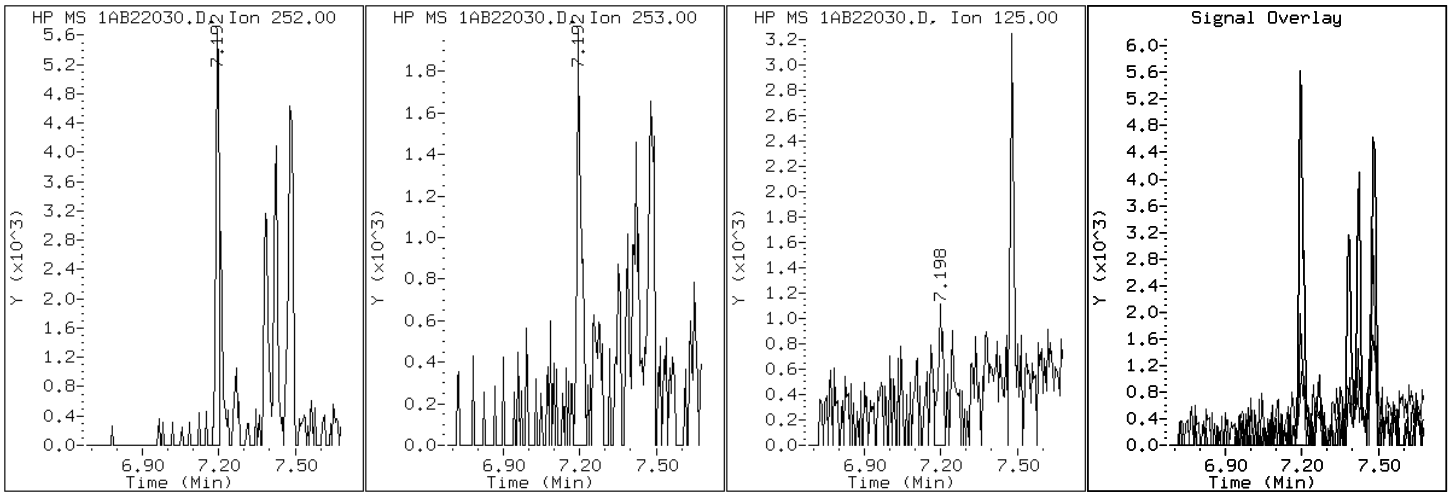
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS | Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a | Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

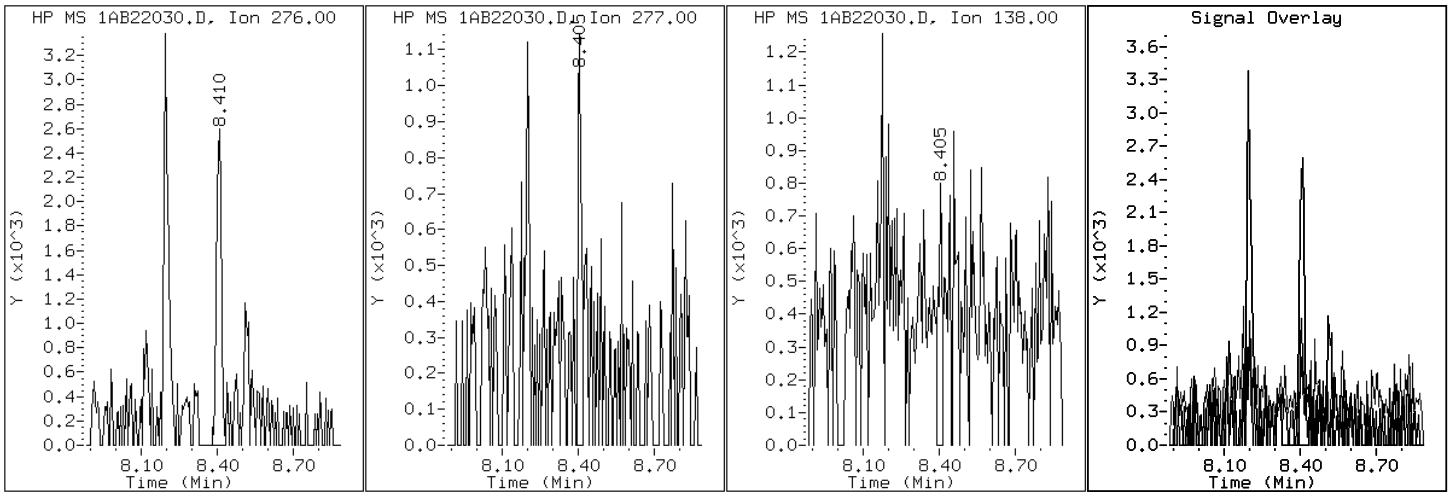
Client ID: FM0161C-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a

Operator: SCC

26 Benzo(g,h,i)perylene



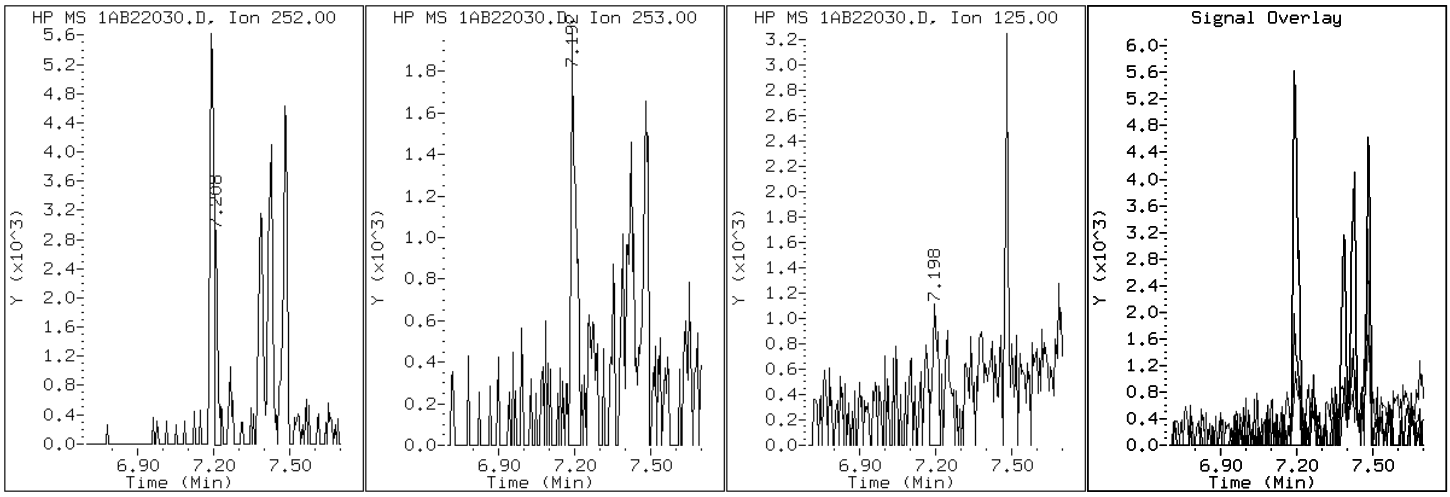
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a Operator: SCC

21 Benzo(k)fluoranthene



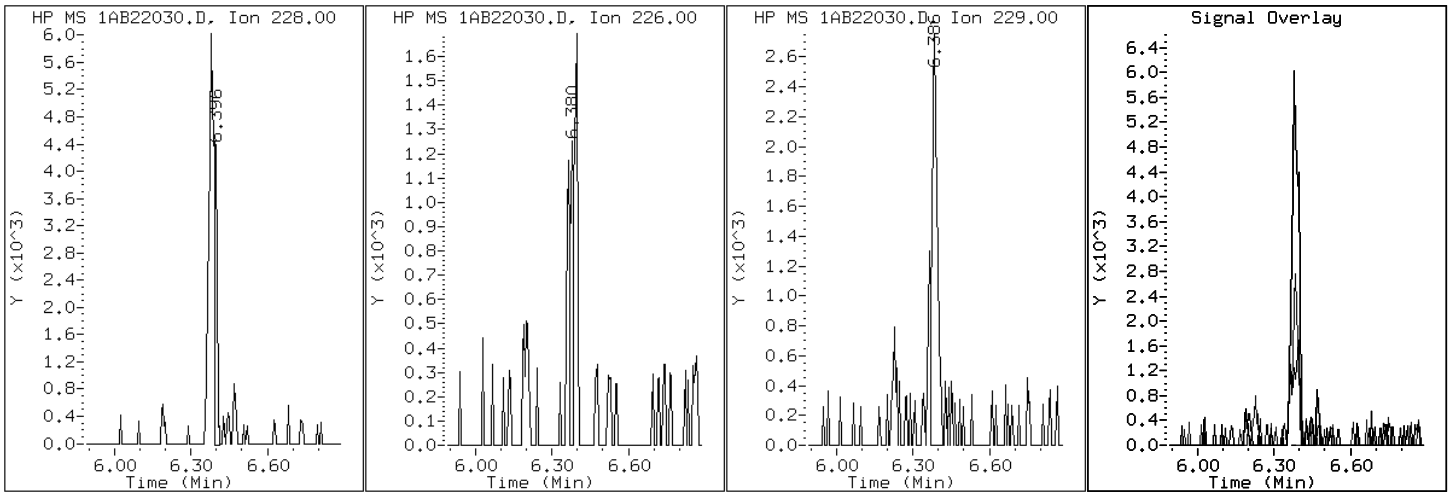
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a Operator: SCC

19 Chrysene



Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

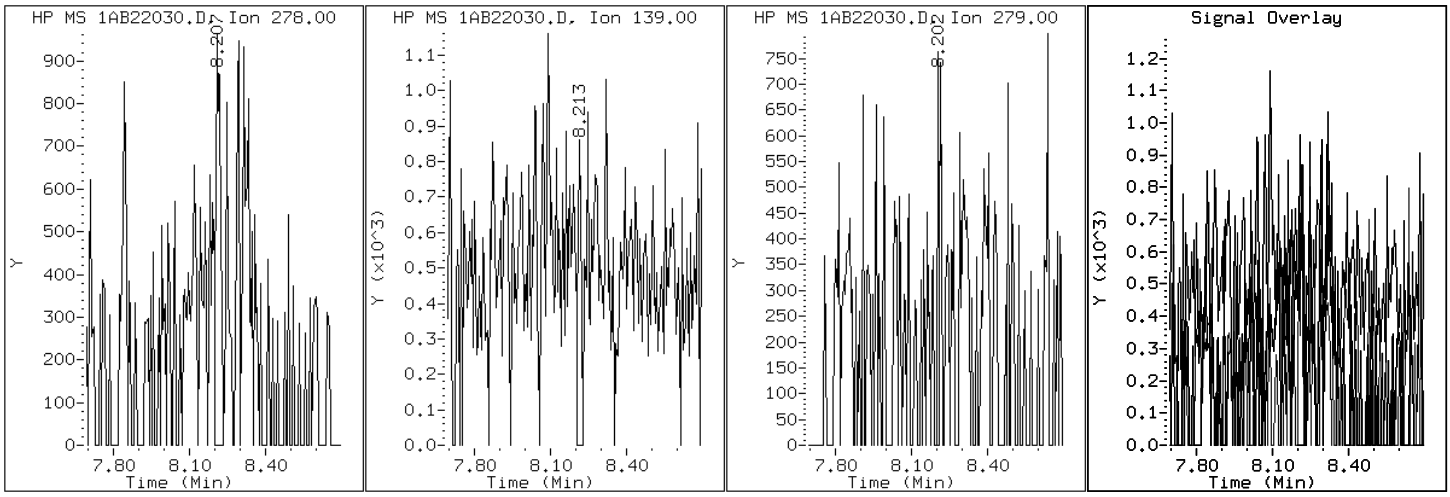
Client ID: FM0161C-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a

Operator: SCC

25 Dibenzo(a,h)anthracene



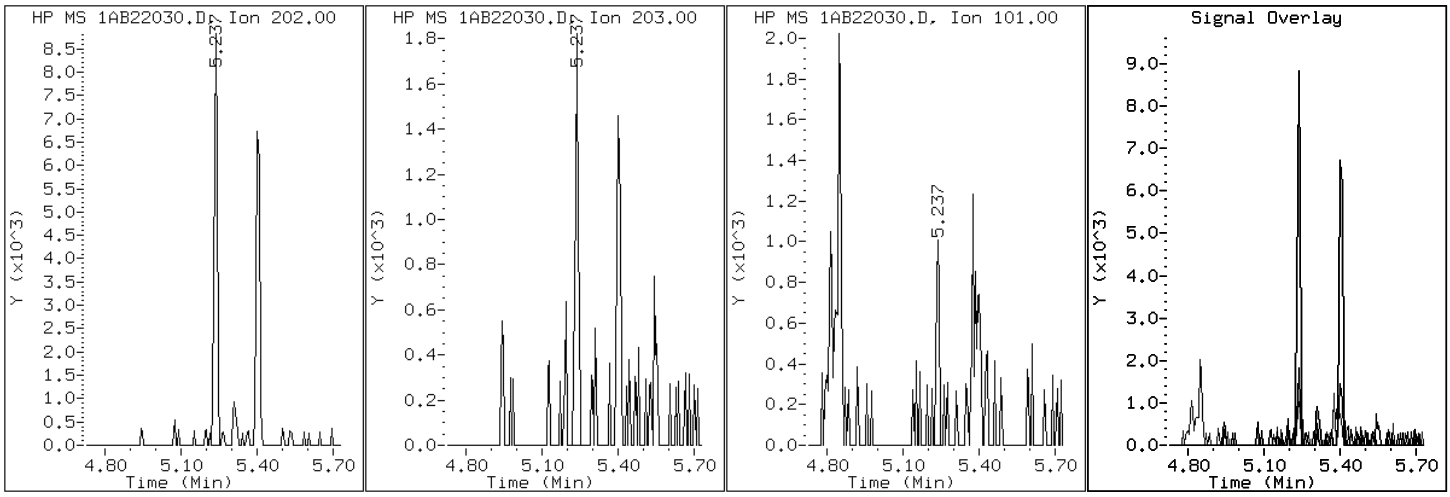
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a Operator: SCC

15 Fluoranthene



Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

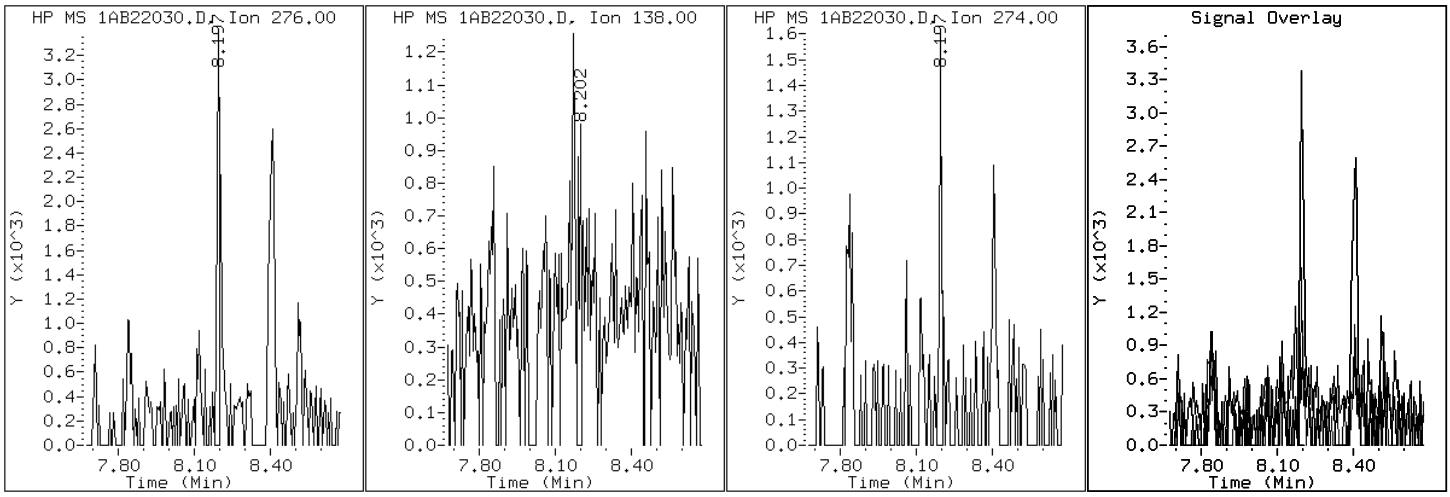
Client ID: FM0161C-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a

Operator: SCC

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



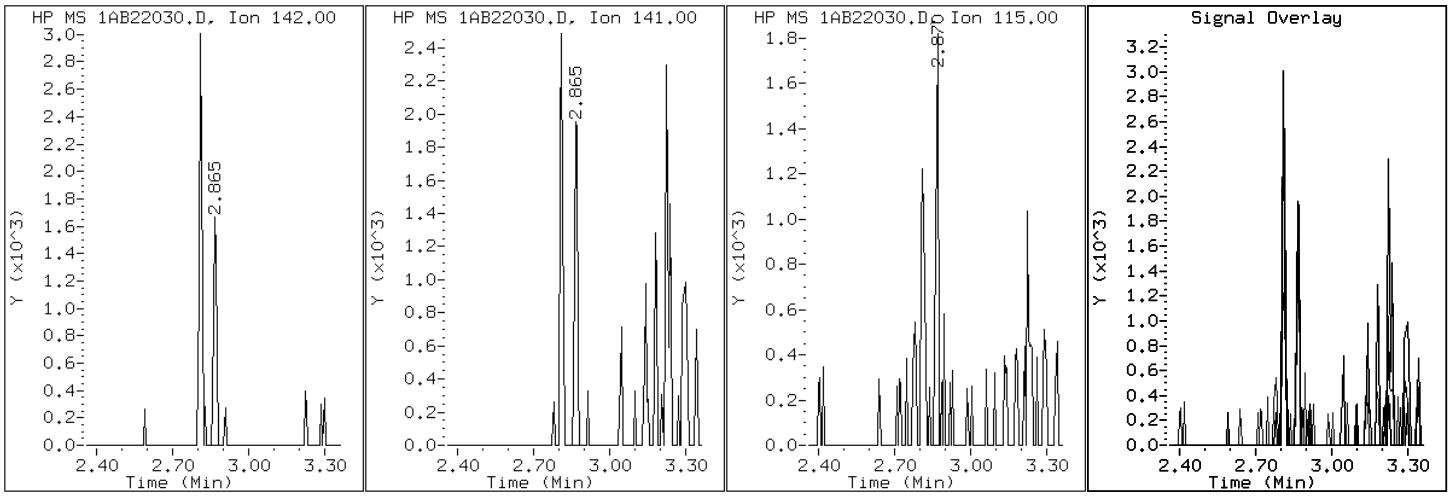
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a Operator: SCC

4 1-Methylnaphthalene



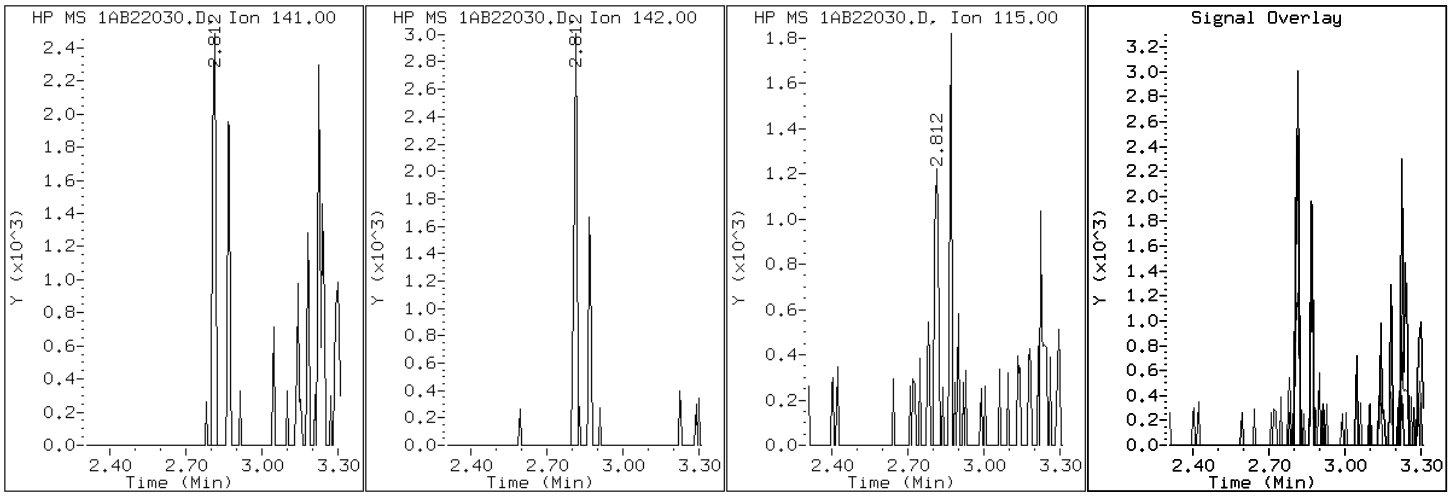
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

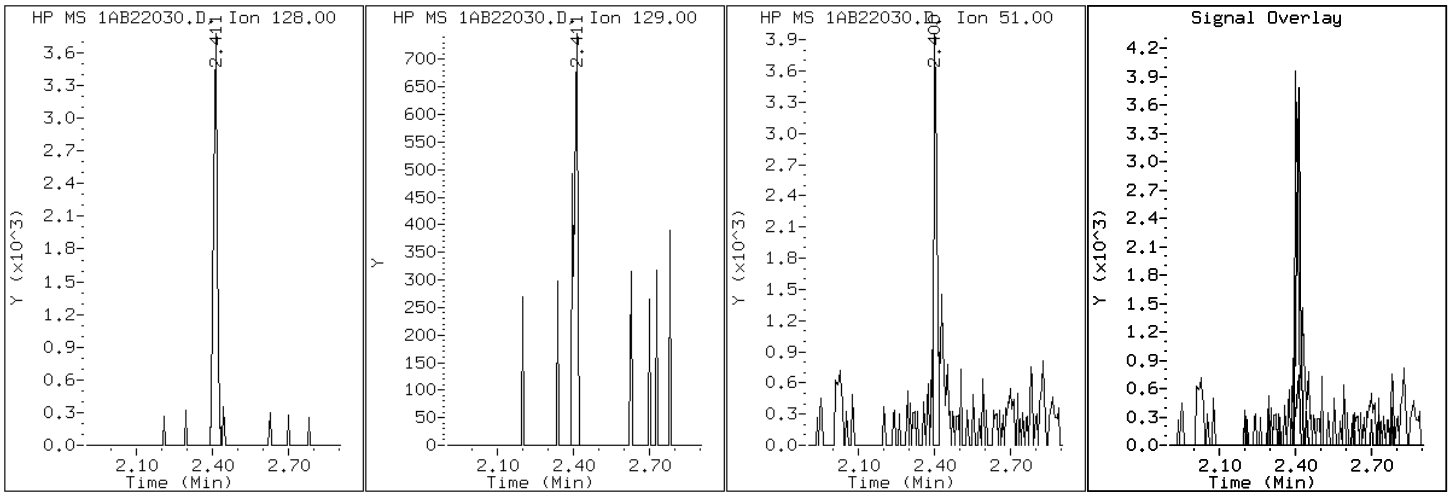
Client ID: FM0161C-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a

Operator: SCC

2 Naphthalene



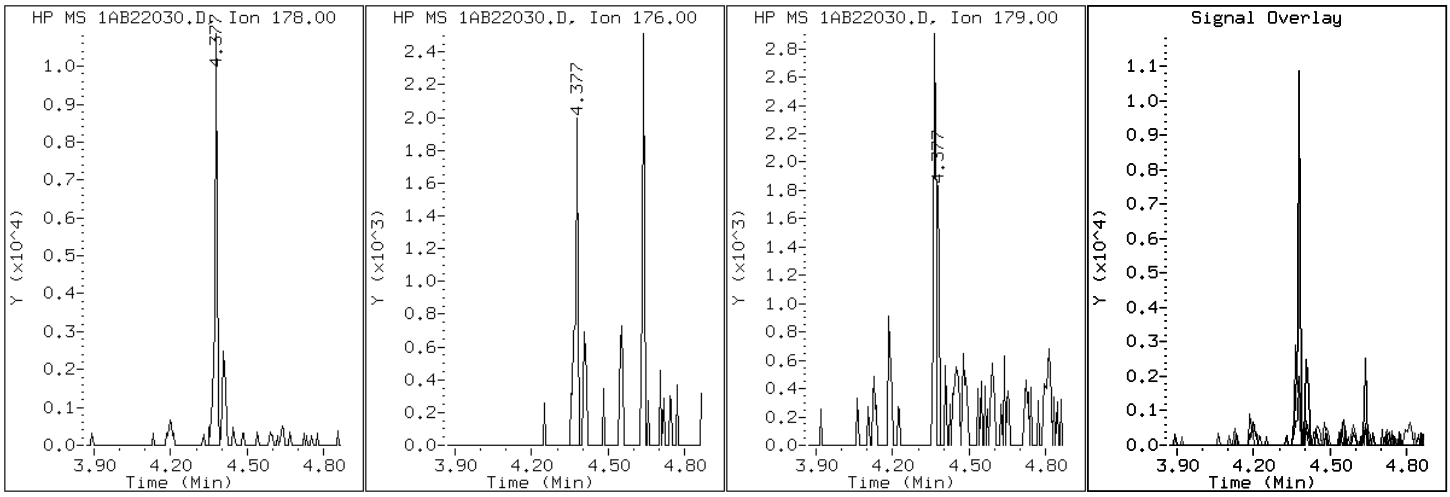
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a Operator: SCC

11 Phenanthrene



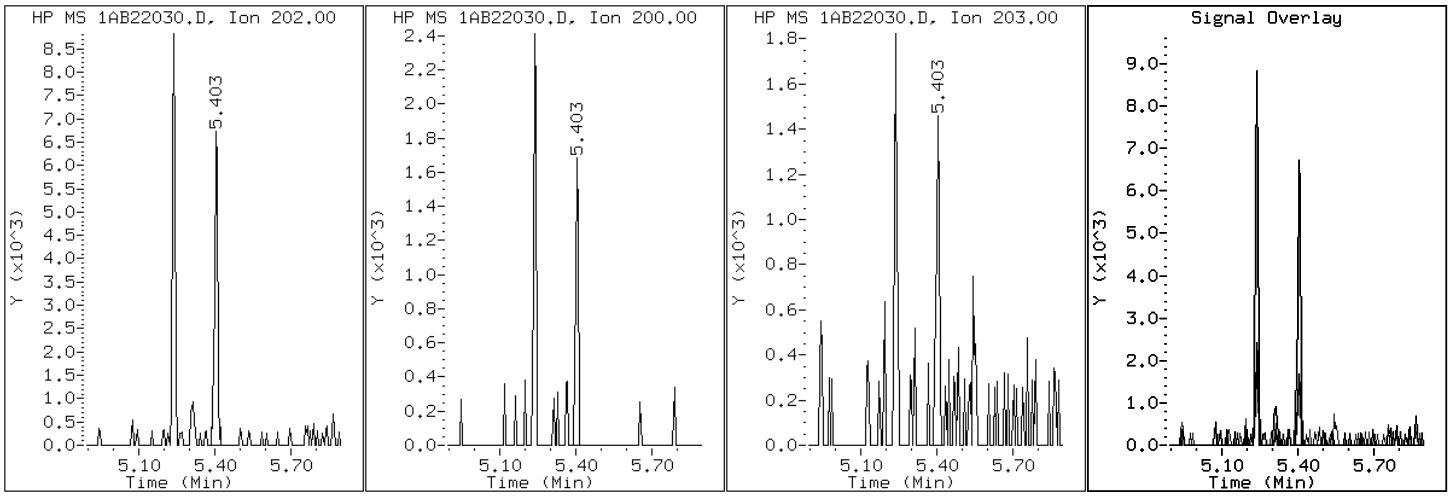
Data File: 1AB22030.D

Date: 22-FEB-2013 17:55

Client ID: FM0161C-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-66-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22030.D
Inj. Date and Time: 22-FEB-2013 17:55
Instrument ID: BSMA5973.i
Client ID: FM0161C-CS
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 02/26/2013

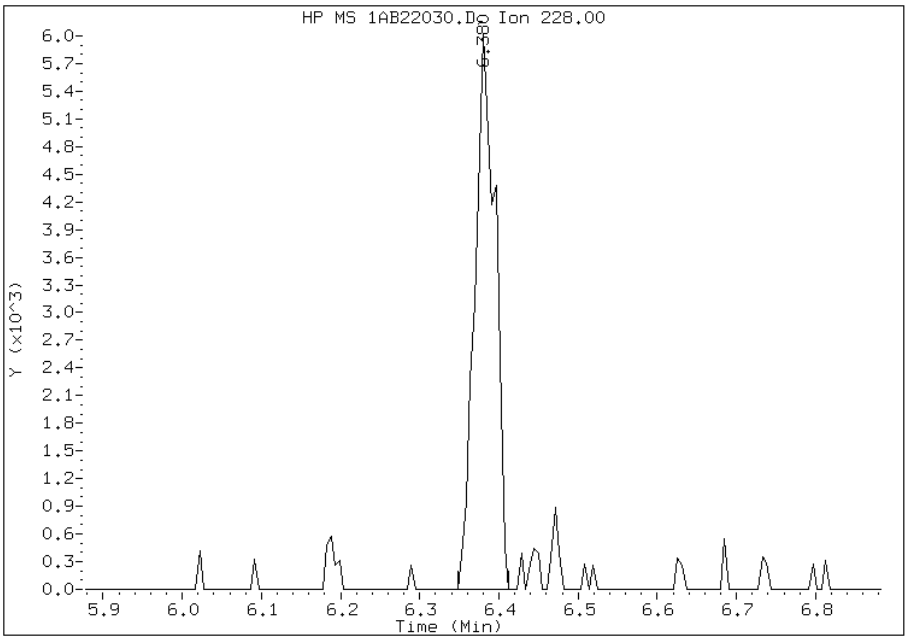
Processing Integration Results

RT: 6.38

Response: 10726

Amount: 0

Conc: 137



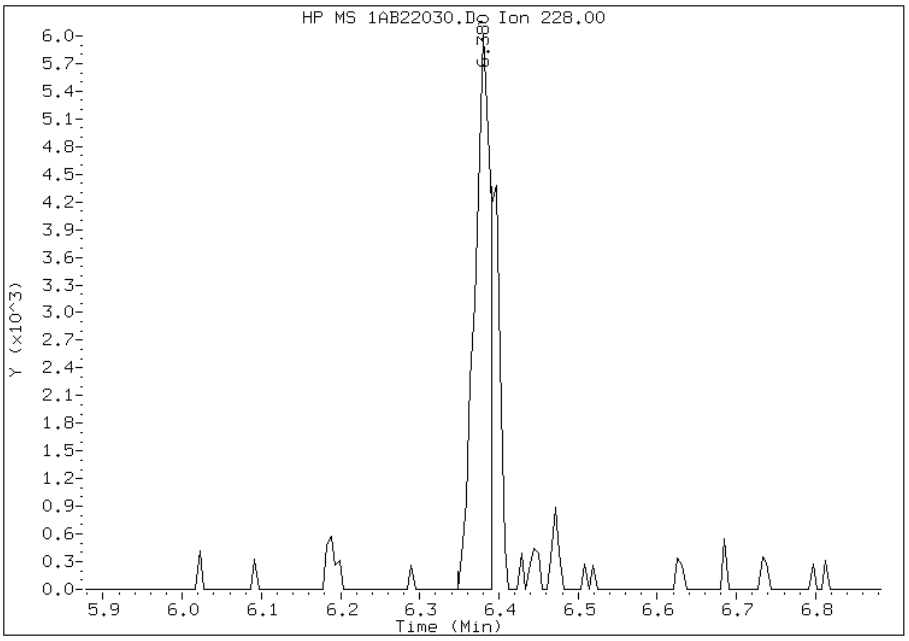
Manual Integration Results

RT: 6.38

Response: 8357

Amount: 0

Conc: 107



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22030.D
Inj. Date and Time: 22-FEB-2013 17:55
Instrument ID: BSMA5973.i
Client ID: FM0161C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

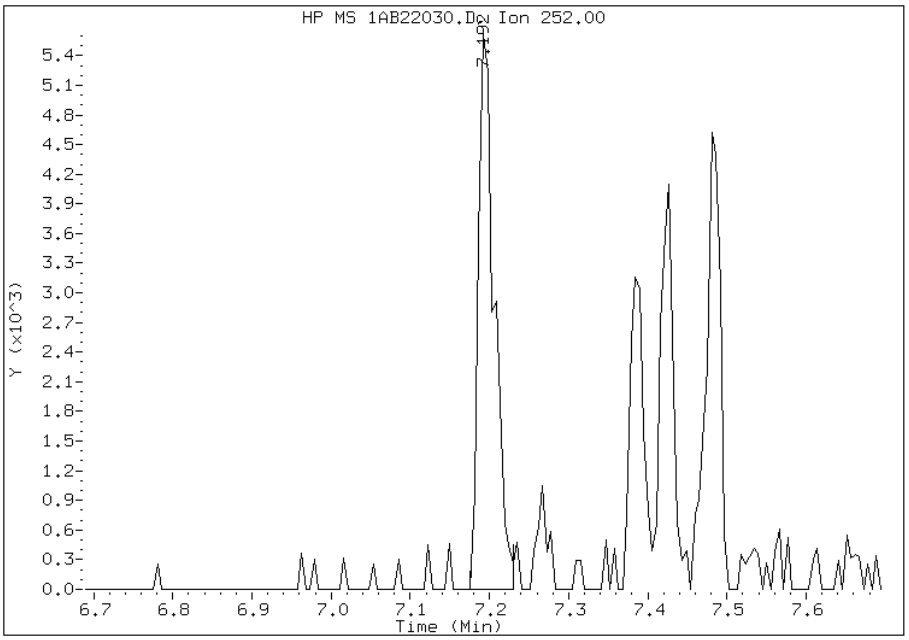
Processing Integration Results

RT: 7.19

Response: 7803

Amount: 0

Conc: 85



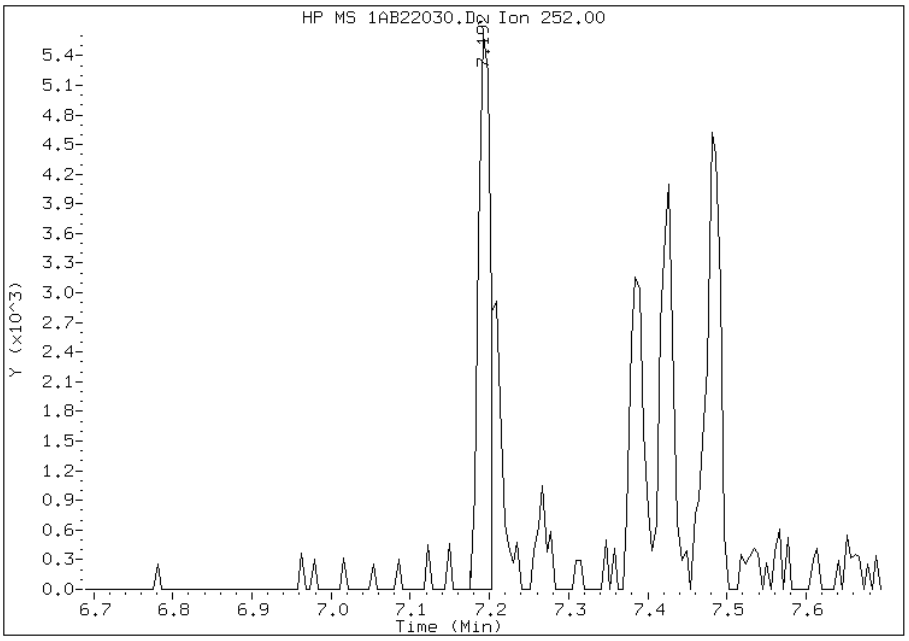
Manual Integration Results

RT: 7.19

Response: 5821

Amount: 0

Conc: 64



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:05
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22030.D
Inj. Date and Time: 22-FEB-2013 17:55
Instrument ID: BSMA5973.i
Client ID: FM0161C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

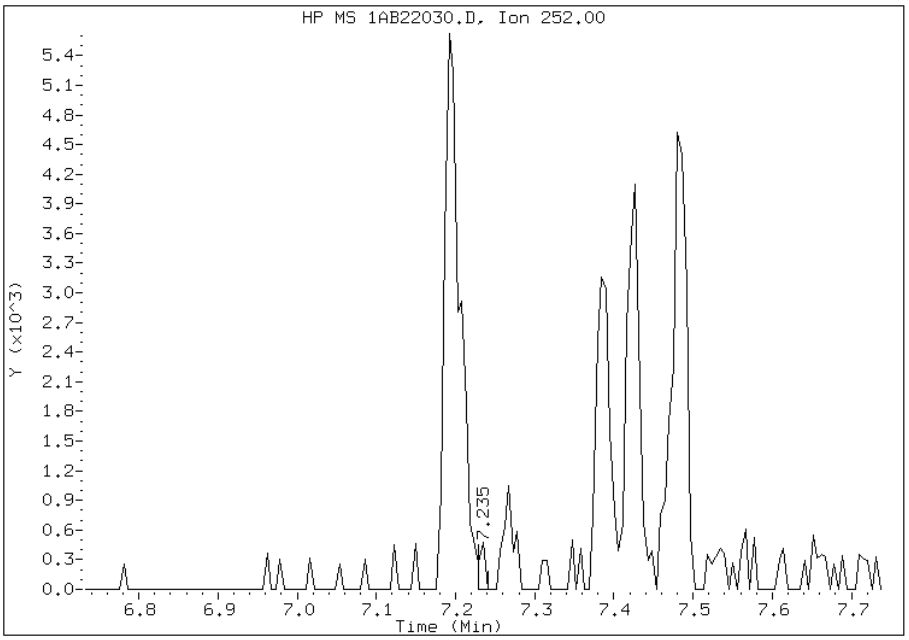
Processing Integration Results

RT: 7.23

Response: 236

Amount: 0

Conc: 3



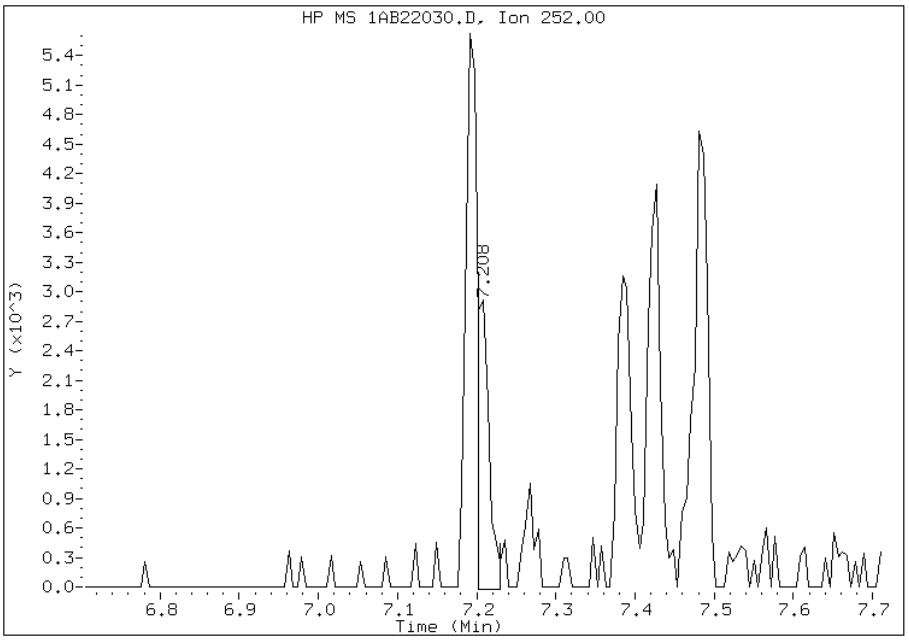
Manual Integration Results

RT: 7.21

Response: 2926

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22030.D
Inj. Date and Time: 22-FEB-2013 17:55
Instrument ID: BSMA5973.i
Client ID: FM0161C-CS
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 02/26/2013

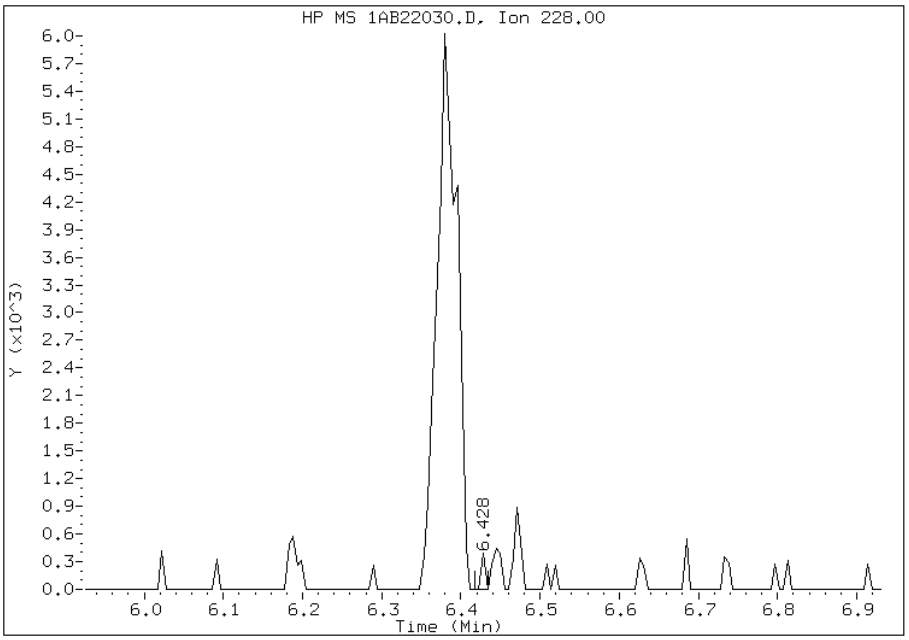
Processing Integration Results

RT: 6.43

Response: 126

Amount: 0

Conc: 2



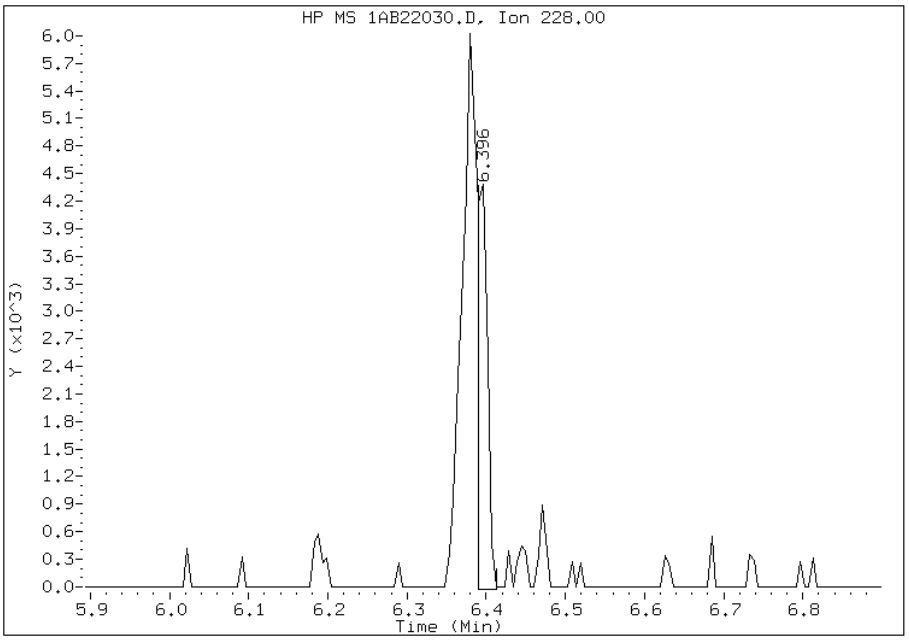
Manual Integration Results

RT: 6.40

Response: 3738

Amount: 0

Conc: 53



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22030.D
Inj. Date and Time: 22-FEB-2013 17:55
Instrument ID: BSMA5973.i
Client ID: FM0161C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

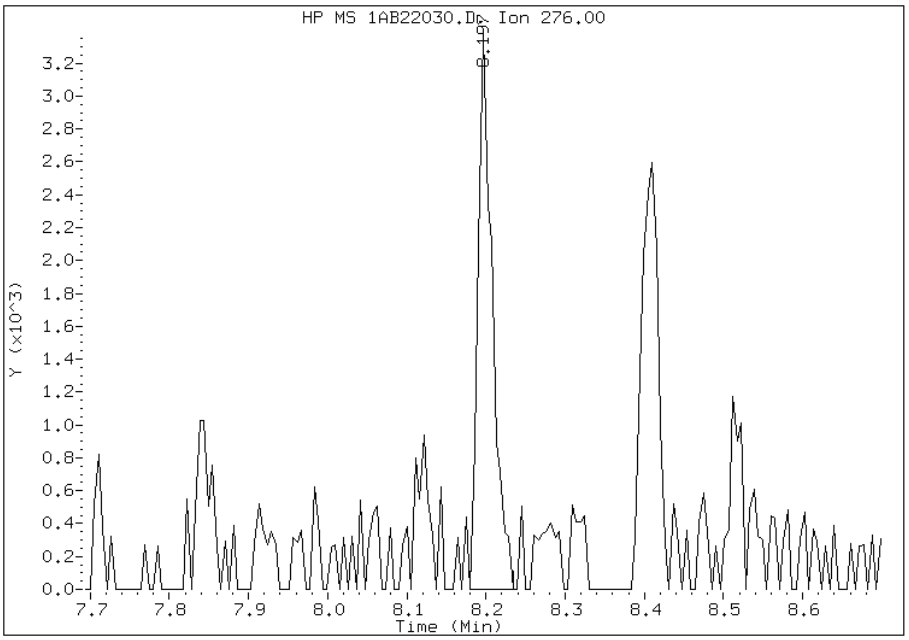
Processing Integration Results

RT: 8.20

Response: 4190

Amount: 0

Conc: 58



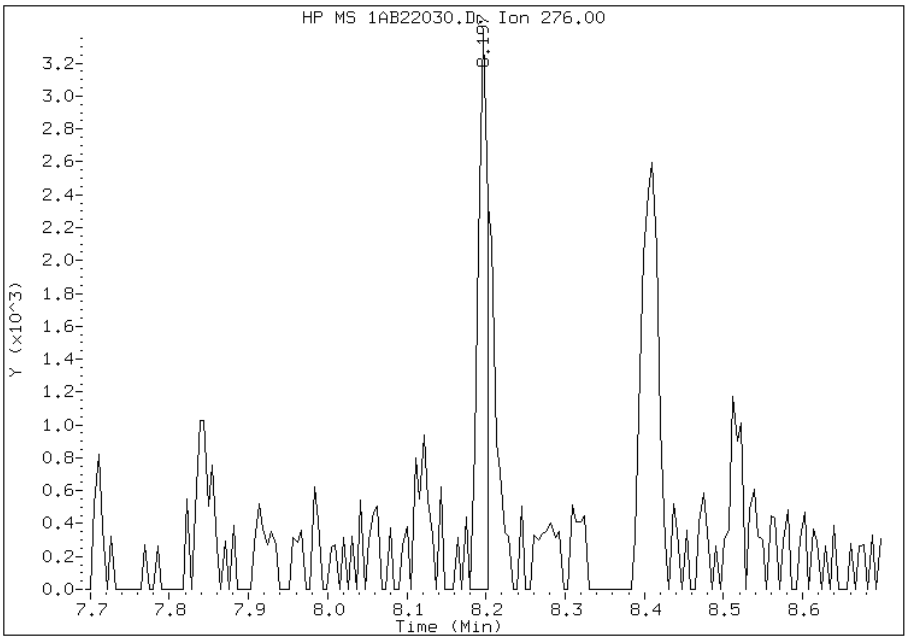
Manual Integration Results

RT: 8.20

Response: 2783

Amount: 0

Conc: 39



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0161D-CS | Lab Sample ID: 680-87496-67

Matrix: Solid | Lab File ID: 1AB22031.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:50

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 14.97(g) | Date Analyzed: 02/22/2013 18:10

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

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

% Moisture: 11.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	45	U	45	5.7
120-12-7	Anthracene	11		9.5	4.7
56-55-3	Benzo[a]anthracene	32		9.0	4.4
50-32-8	Benzo[a]pyrene	20		12	5.9
205-99-2	Benzo[b]fluoranthene	27		14	6.9
191-24-2	Benzo[g,h,i]perylene	17	J	23	5.0
207-08-9	Benzo[k]fluoranthene	8.9	J	9.0	4.1
218-01-9	Chrysene	37		10	5.1
53-70-3	Dibenz(a,h)anthracene	7.3	J	23	4.6
206-44-0	Fluoranthene	38		23	4.5
86-73-7	Fluorene	23	U	23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	14	J	23	8.0
90-12-0	1-Methylnaphthalene	10	J	45	5.0
91-57-6	2-Methylnaphthalene	17	J	45	8.0
91-20-3	Naphthalene	19	J	45	5.0
85-01-8	Phenanthrene	31		9.0	4.4
129-00-0	Pyrene	39		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22031.D
Lab Smp Id: 680-87496-A-67-A Client Smp ID: FM0161D-CS
Inj Date : 22-FEB-2013 18:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-67-a
Misc Info : 680-87496-A-67-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 31
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	14.970	Weight Extracted
M	11.385	% 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	2.399	2.397	(1.000)	1356853	40.0000	
* 6 Acenaphthene-d10	164	3.425	3.417	(1.000)	1007923	40.0000	
* 10 Phenanthrene-d10	188	4.365	4.352	(1.000)	1481958	40.0000	
$ 14 o-Terphenyl	230	4.637	4.635	(1.062)	109707	5.08750	383.5094
* 18 Chrysene-d12	240	6.384	6.366	(1.000)	998596	40.0000	
* 23 Perylene-d12	264	7.485	7.456	(1.000)	1333117	40.0000	(H)
2 Naphthalene	128	2.410	2.402	(1.004)	8047	0.24612	18.5534
3 2-Methylnaphthalene	141	2.810	2.808	(1.171)	3785	0.22425	16.9046
4 1-Methylnaphthalene	142	2.864	2.861	(1.194)	2501	0.13307	10.0308
11 Phenanthrene	178	4.376	4.368	(1.002)	15088	0.40959	30.8763
12 Anthracene	178	4.408	4.400	(1.010)	5060	0.14142	10.6602
15 Fluoranthene	202	5.236	5.228	(1.199)	18709	0.50797	38.2918
16 Pyrene	202	5.407	5.394	(0.847)	15220	0.51963	39.1709
17 Benzo(a)anthracene	228	6.379	6.355	(0.999)	12707	0.42616	32.1252

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.395	6.387	(1.002)	12933	0.48498	36.5589
20 Benzo(b)fluoranthene	252	7.196	7.178	(0.961)	12188	0.36065	27.1868(MH)
21 Benzo(k)fluoranthene	252	7.212	7.199	(0.964)	4017	0.11815	8.9064(QMH)
22 Benzo(a)pyrene	252	7.426	7.408	(0.992)	8289	0.26783	20.1898(H)
24 Indeno(1,2,3-cd)pyrene	276	8.201	8.177	(1.096)	4998	0.18824	14.1900(MH)
25 Dibenzo(a,h)anthracene	278	8.211	8.193	(1.097)	2683	0.09697	7.3098(H)
26 Benzo(g,h,i)perylene	276	8.404	8.385	(1.123)	6339	0.22447	16.9210(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: 1AB22031.D

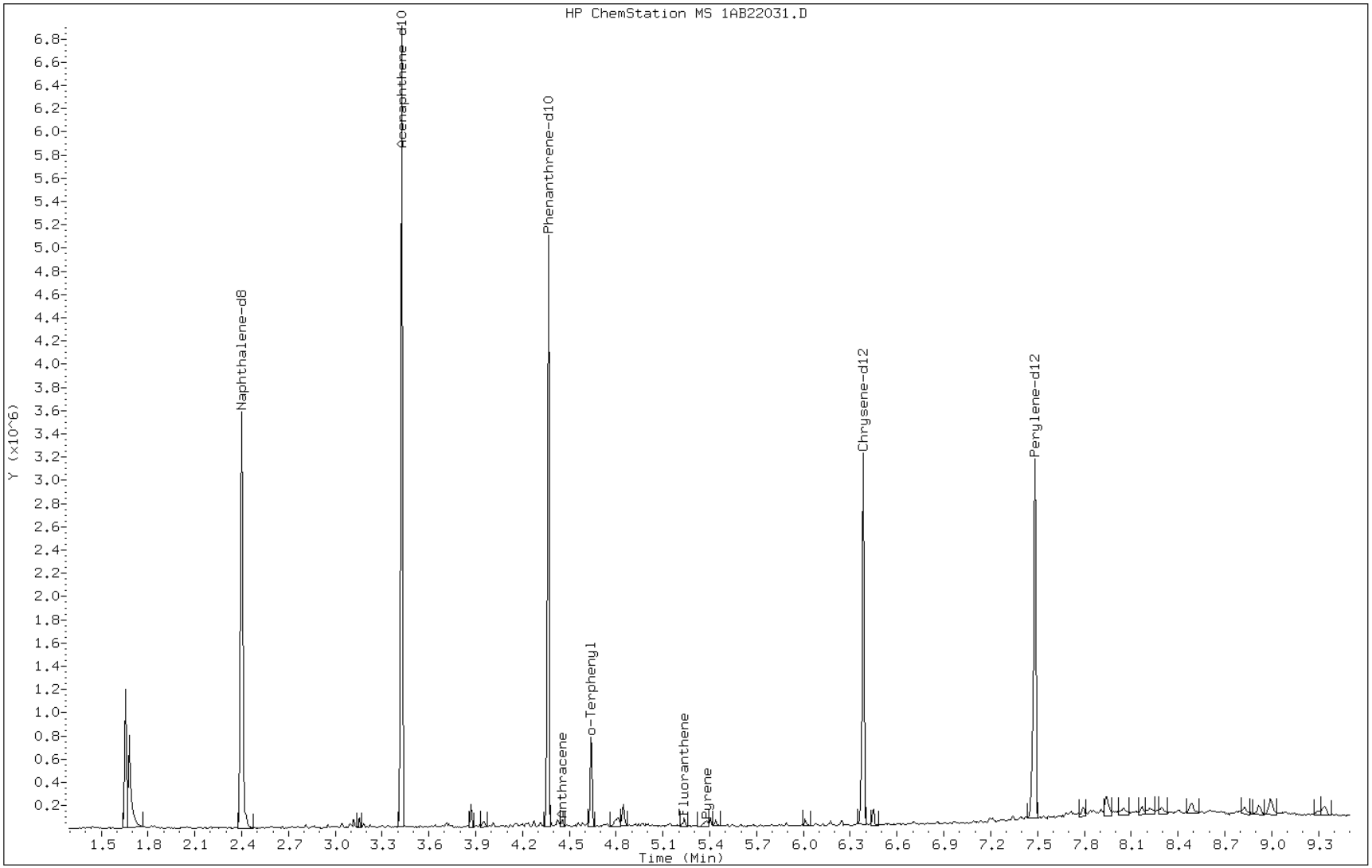
Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a

Operator: SCC



Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

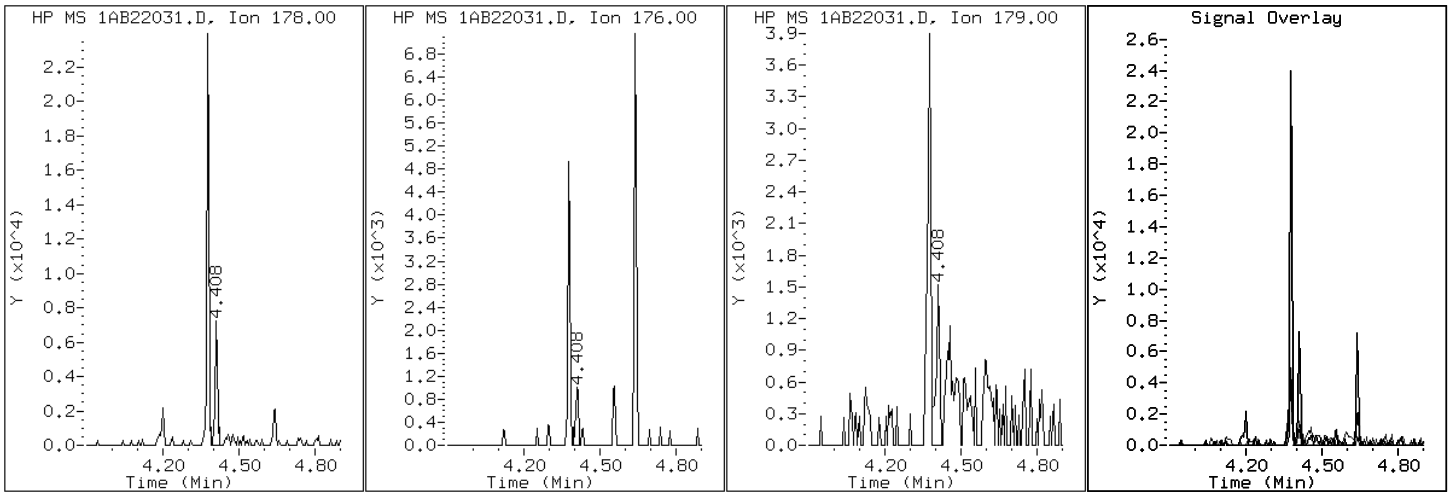
Client ID: FM0161D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a

Operator: SCC

12 Anthracene



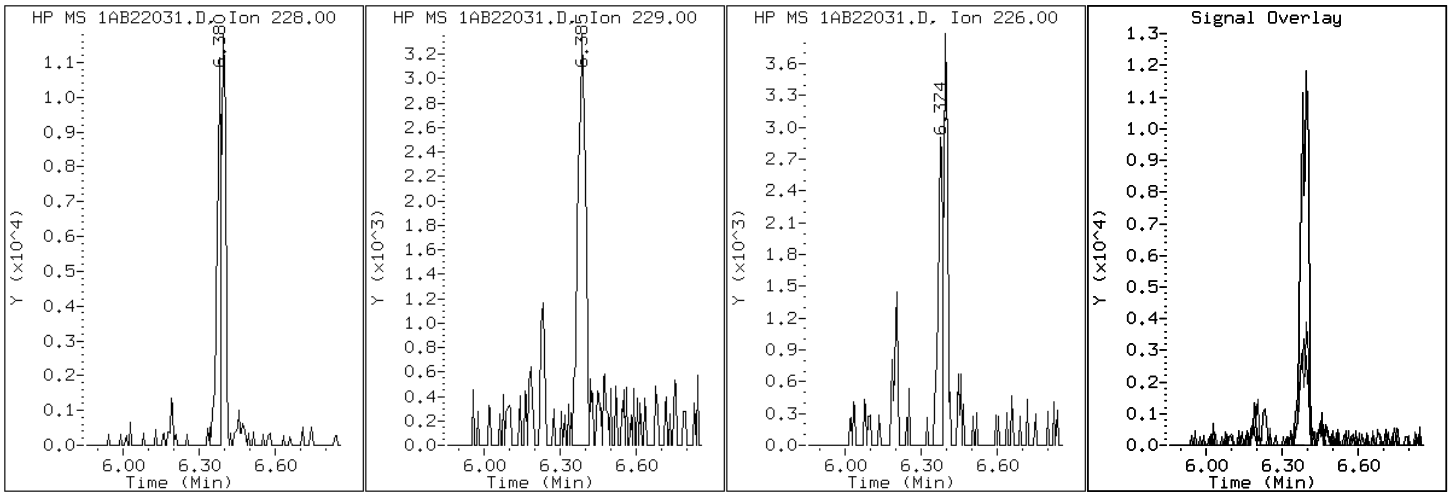
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

17 Benzo(a)anthracene



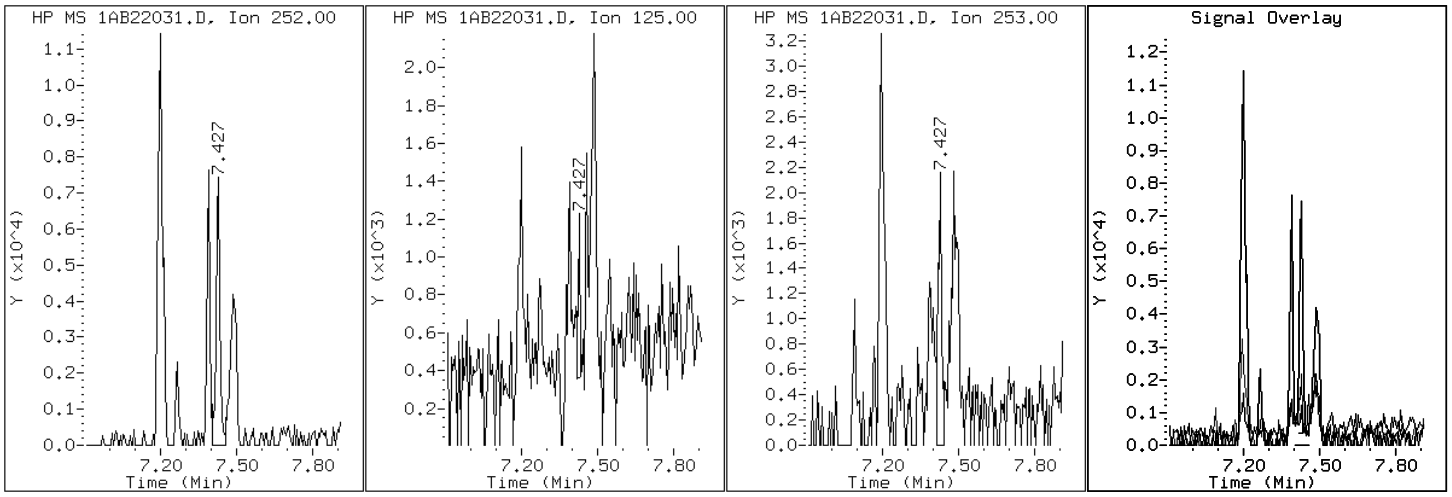
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

22 Benzo(a)pyrene



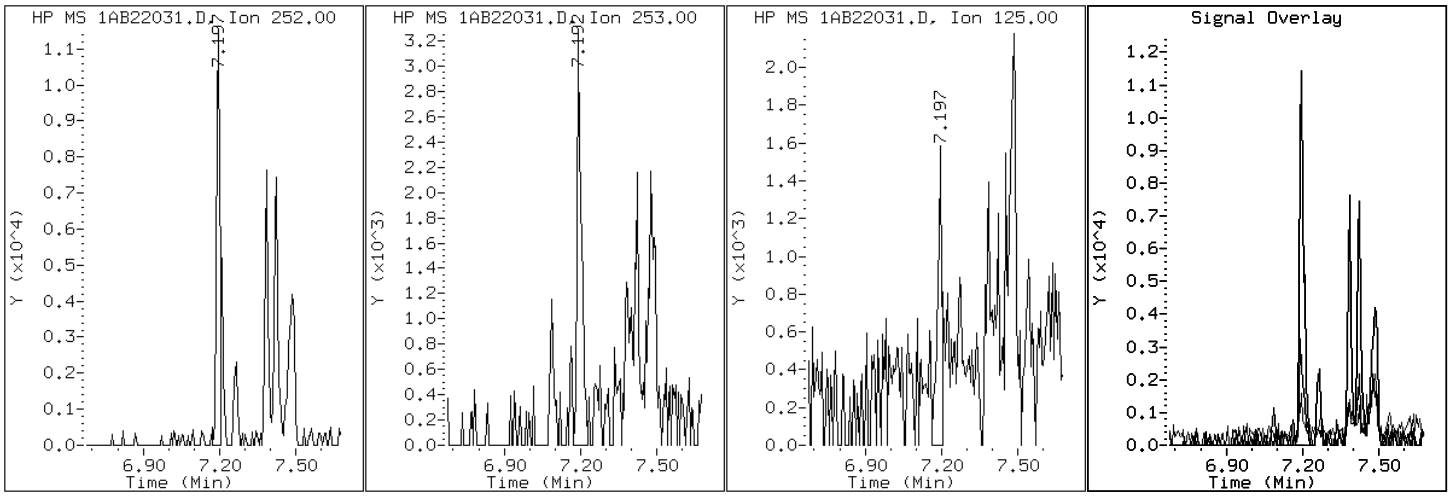
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

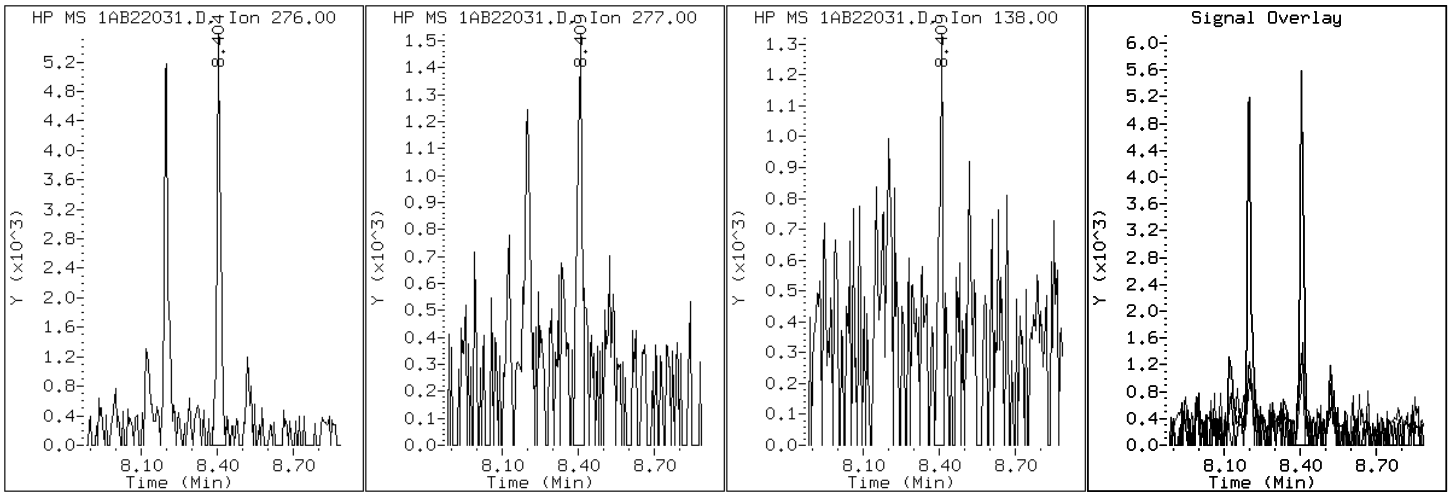
Client ID: FM0161D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a

Operator: SCC

26 Benzo(g,h,i)perylene



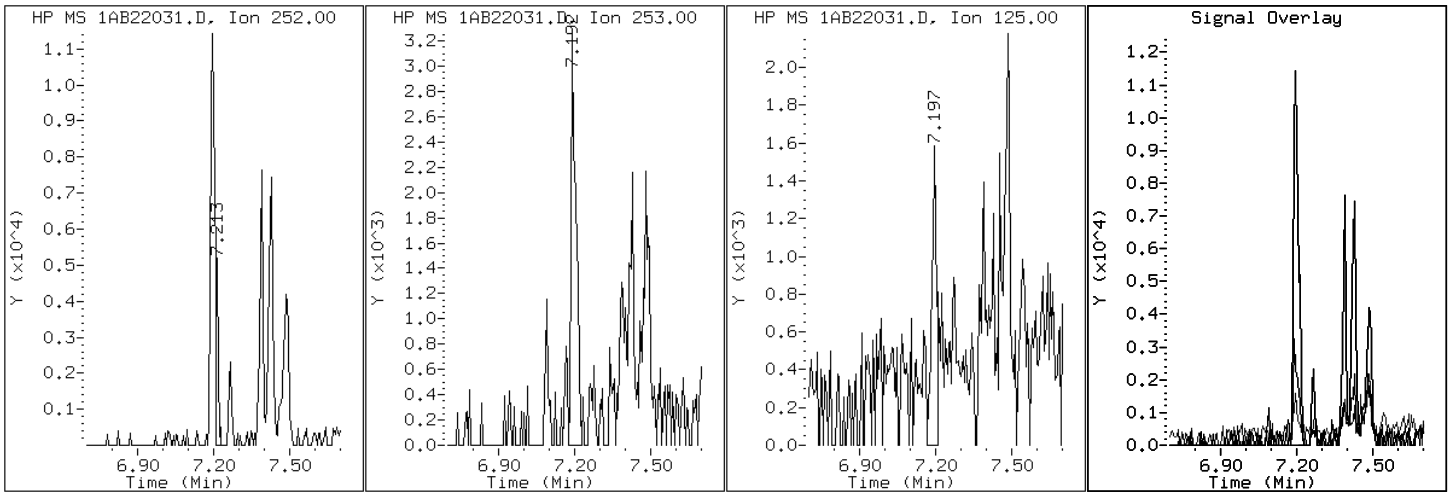
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

21 Benzo(k)fluoranthene



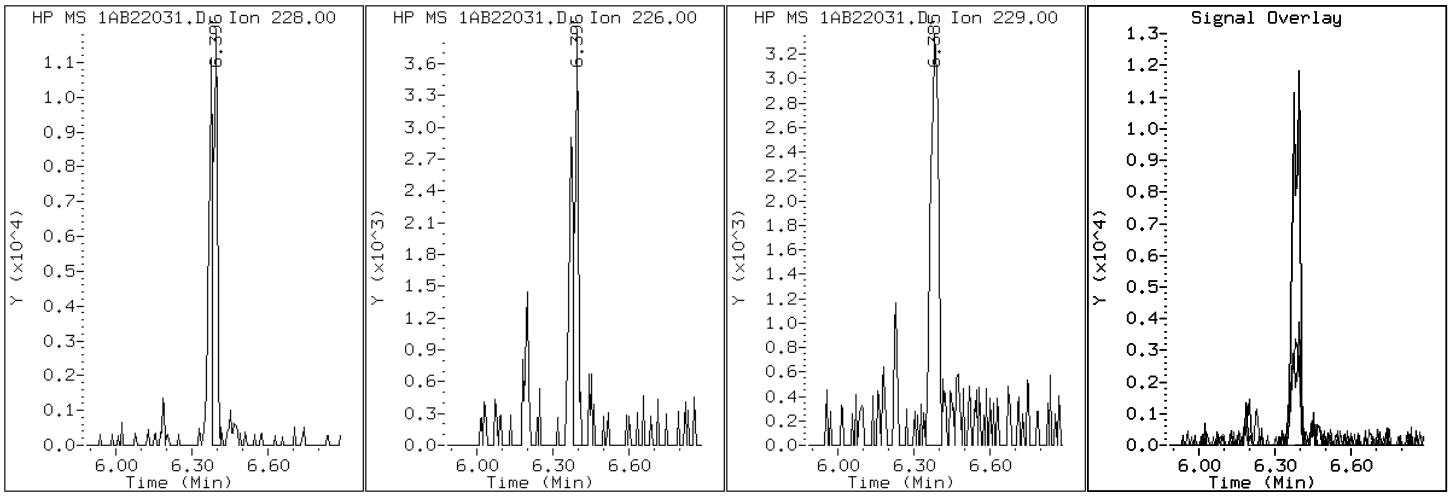
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

19 Chrysene



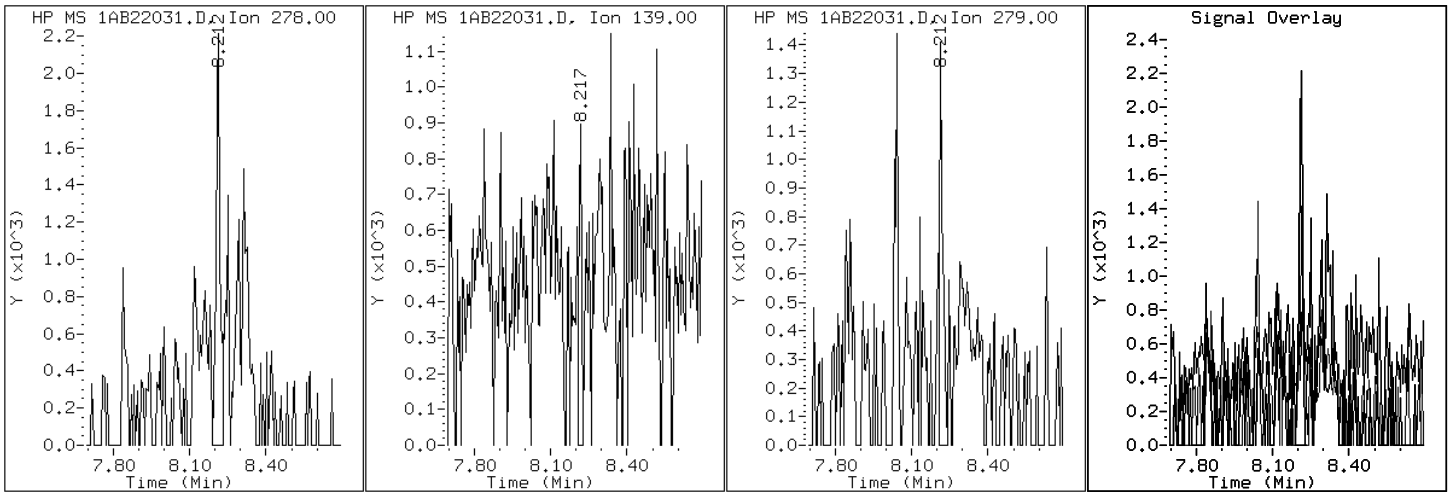
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

25 Dibenzo(a,h)anthracene



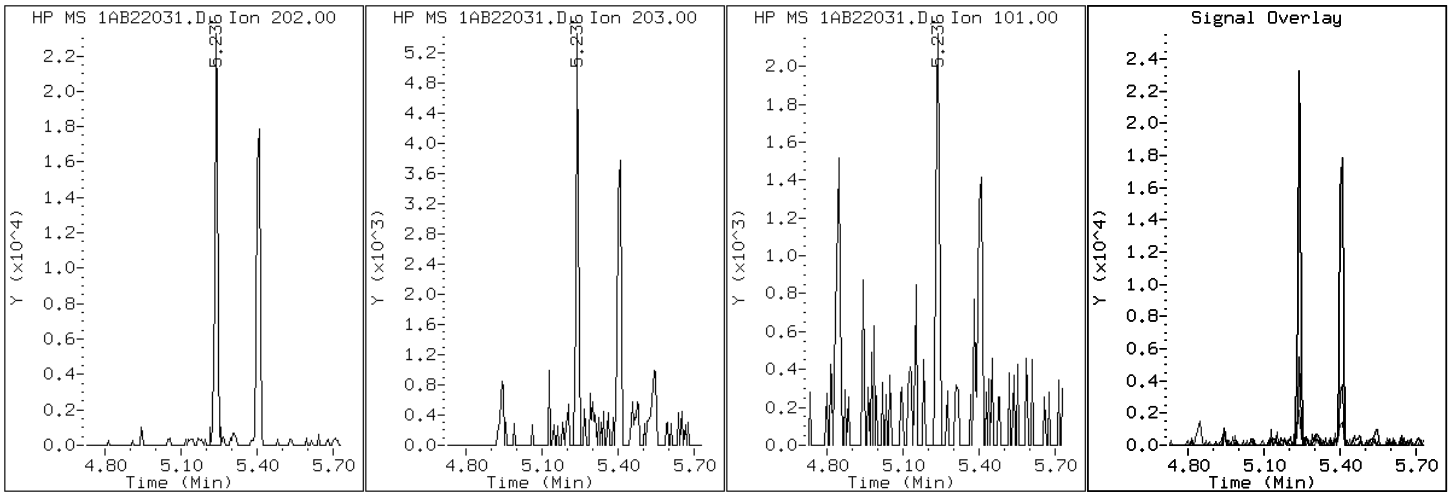
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

15 Fluoranthene



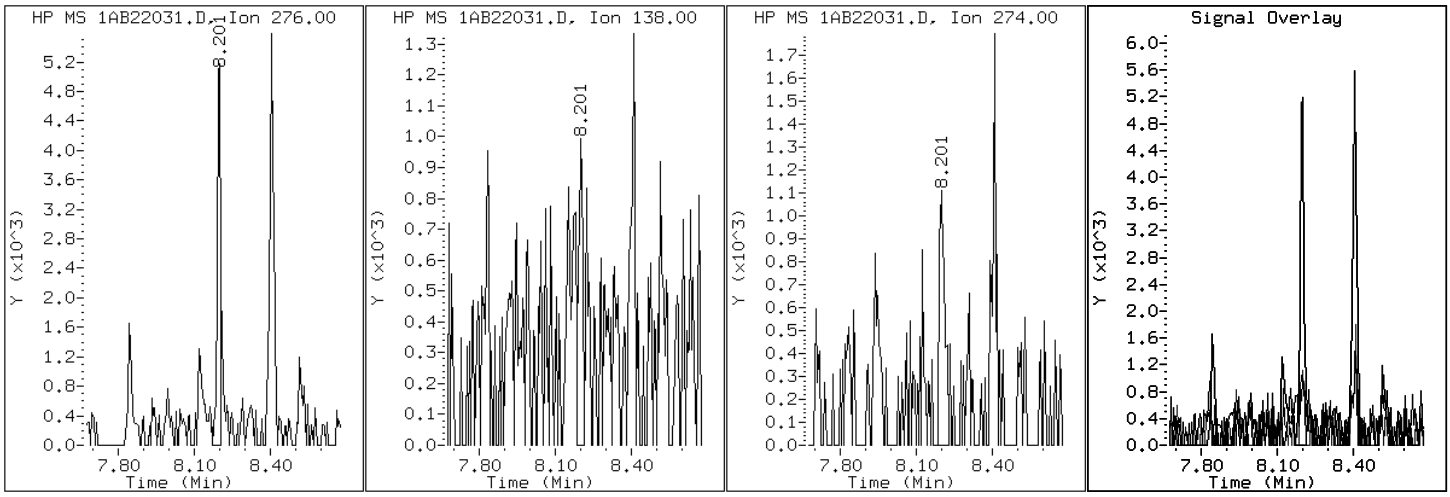
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

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



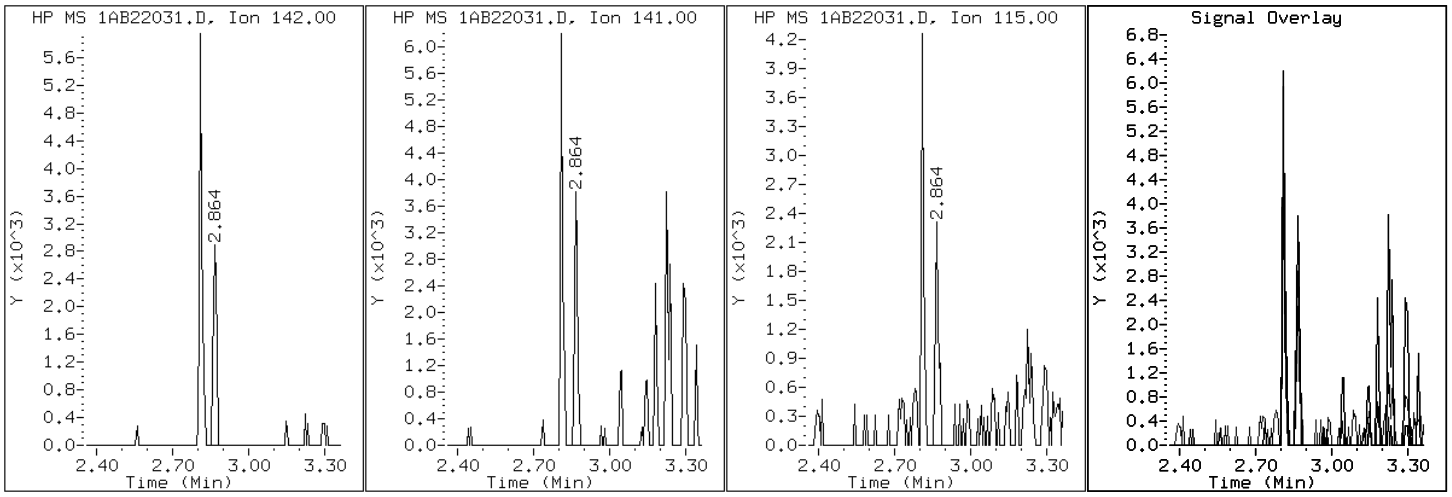
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

4 1-Methylnaphthalene



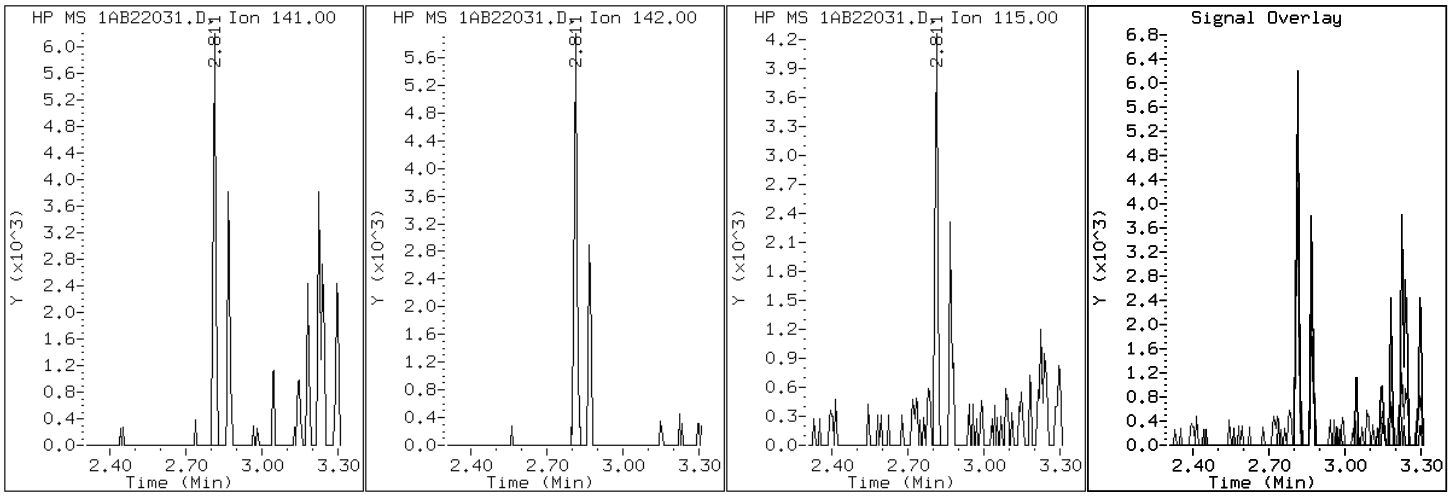
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

3 2-Methylnaphthalene



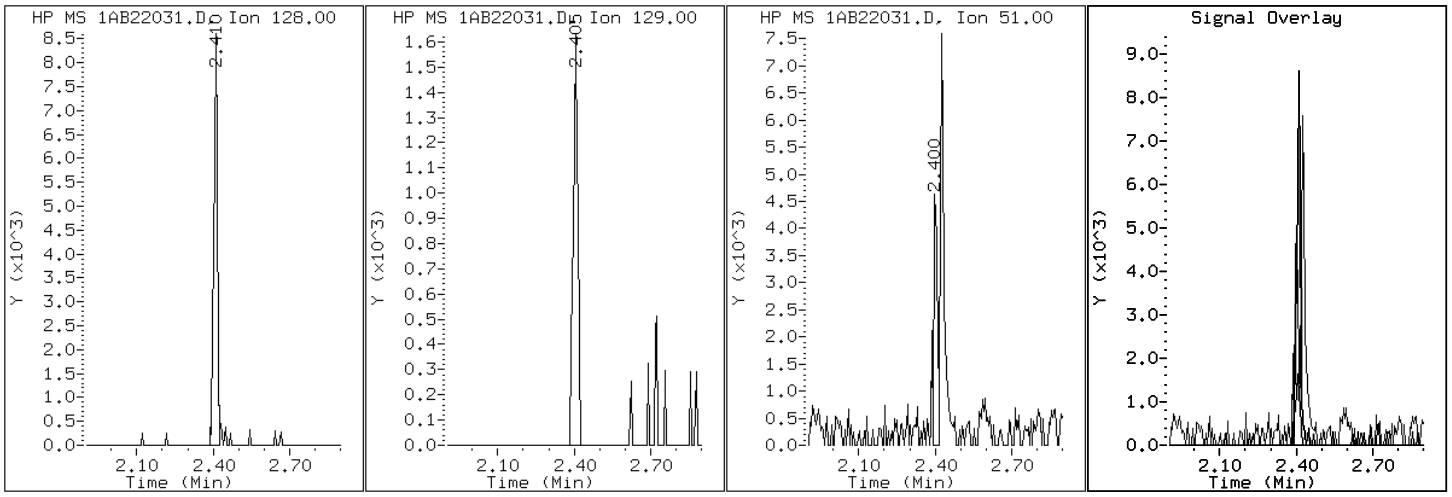
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

2 Naphthalene



Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

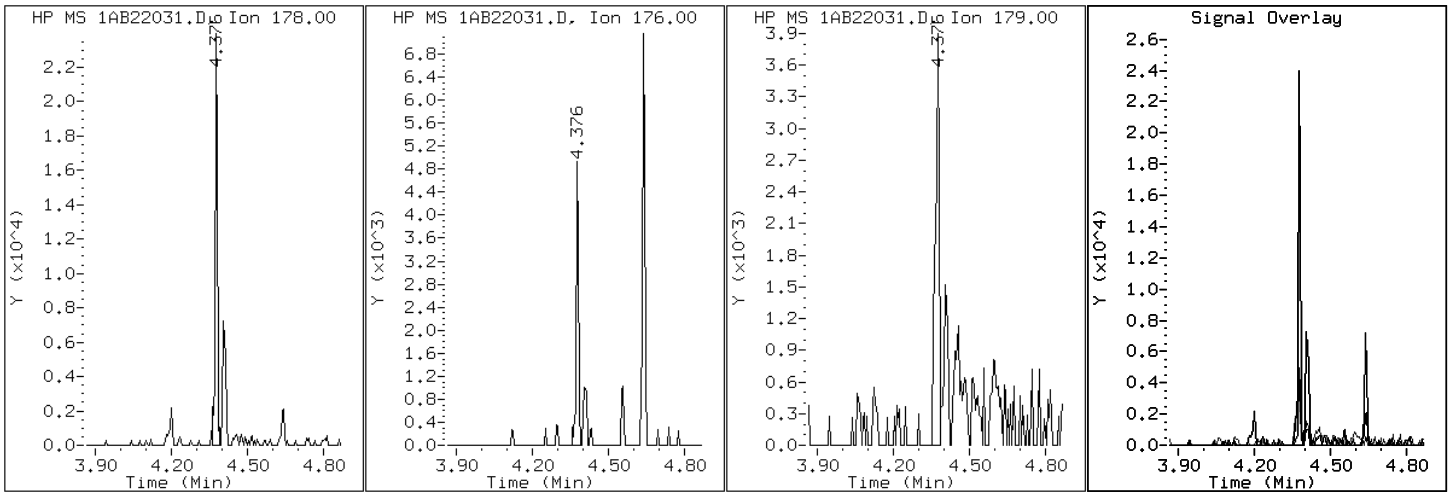
Client ID: FM0161D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a

Operator: SCC

11 Phenanthrene



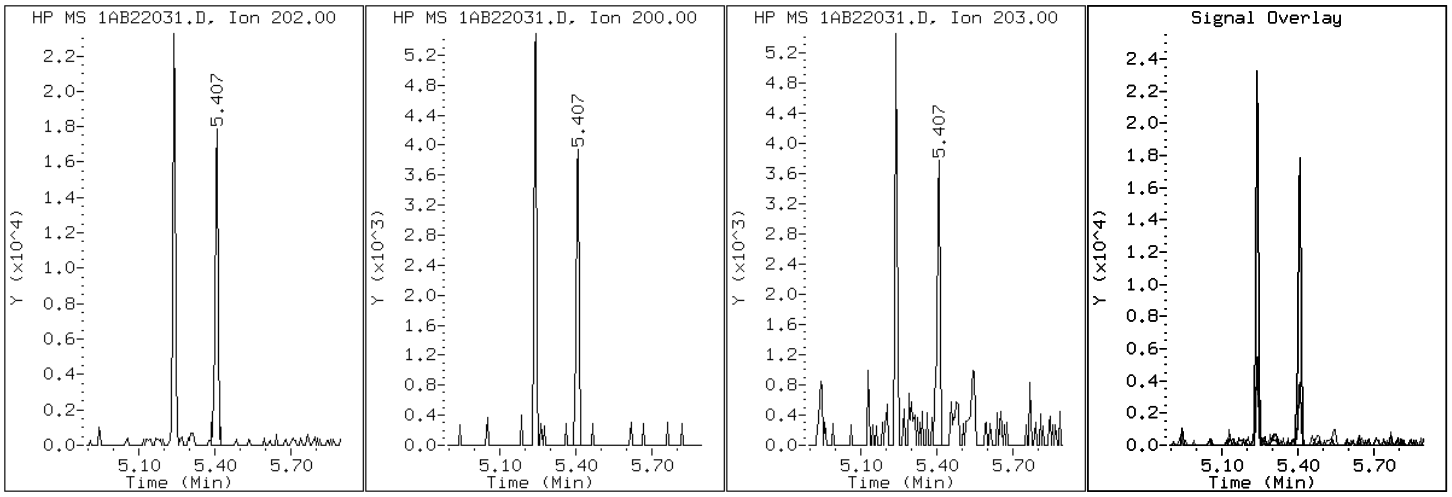
Data File: 1AB22031.D

Date: 22-FEB-2013 18:10

Client ID: FM0161D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-67-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22031.D
Inj. Date and Time: 22-FEB-2013 18:10
Instrument ID: BSMA5973.i
Client ID: FM0161D-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

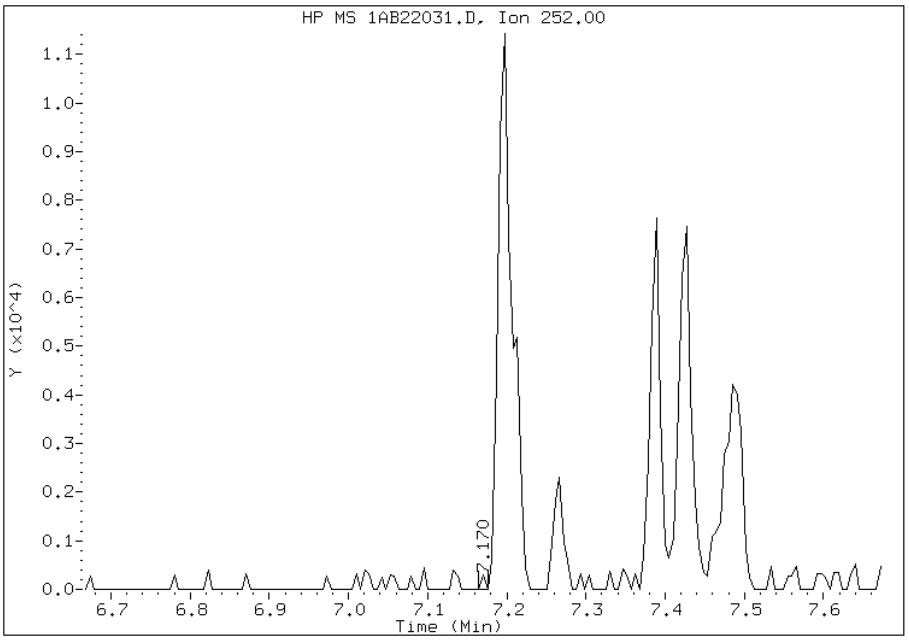
Processing Integration Results

RT: 7.17

Response: 94

Amount: 0

Conc: 0



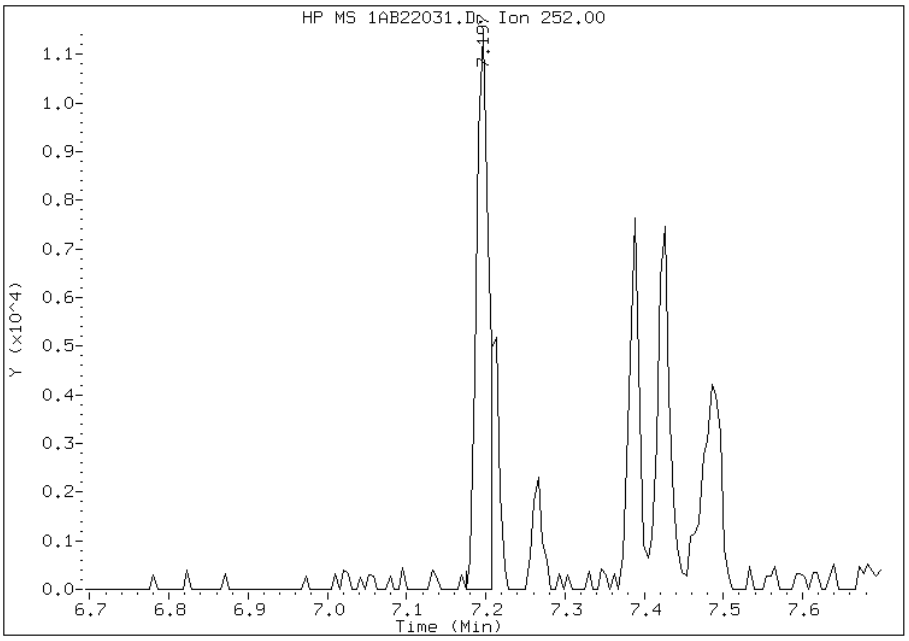
Manual Integration Results

RT: 7.20

Response: 12188

Amount: 0

Conc: 27



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:10
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22031.D
Inj. Date and Time: 22-FEB-2013 18:10
Instrument ID: BSMA5973.i
Client ID: FM0161D-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

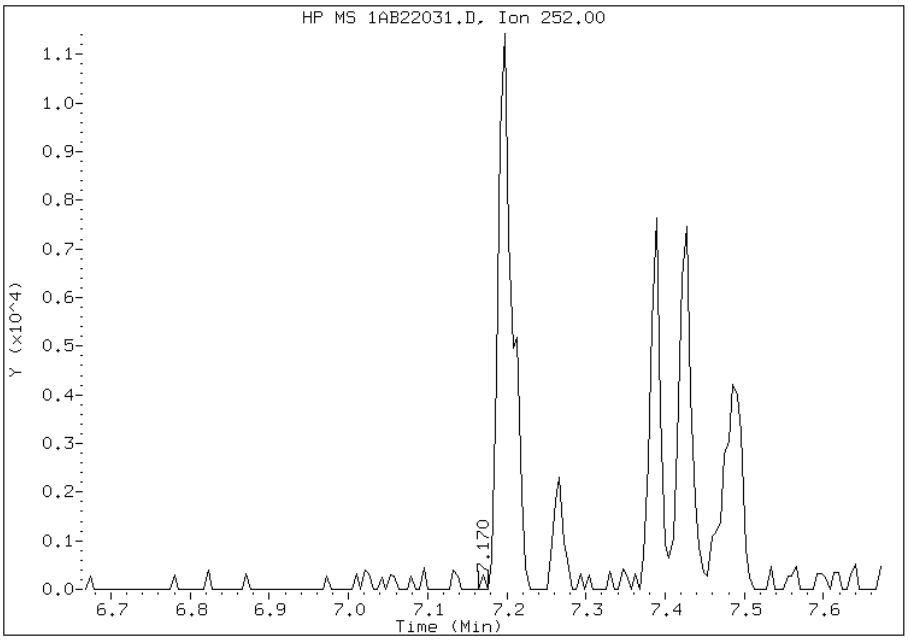
Processing Integration Results

RT: 7.17

Response: 94

Amount: 0

Conc: 0



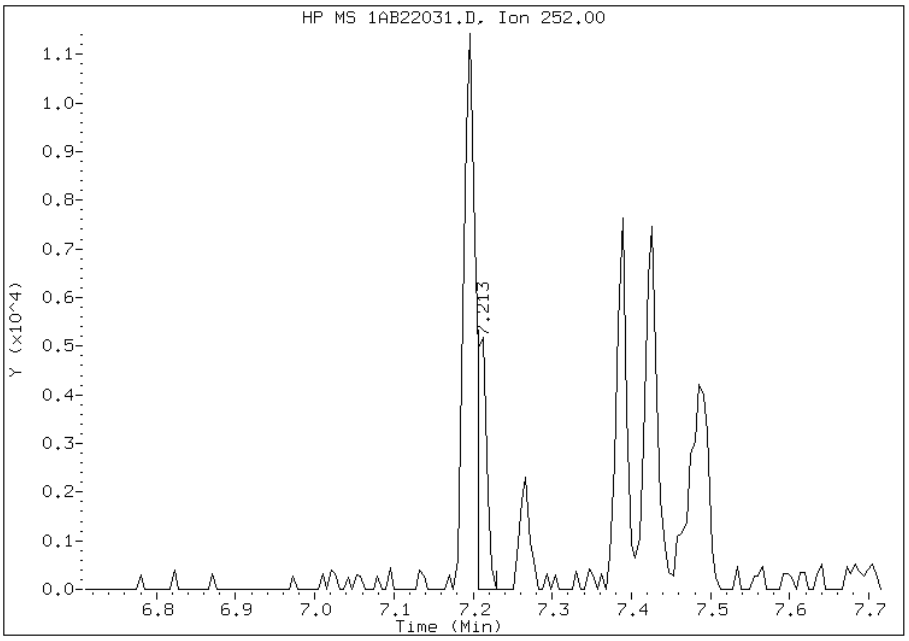
Manual Integration Results

RT: 7.21

Response: 4017

Amount: 0

Conc: 9



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22031.D
Inj. Date and Time: 22-FEB-2013 18:10
Instrument ID: BSMA5973.i
Client ID: FM0161D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

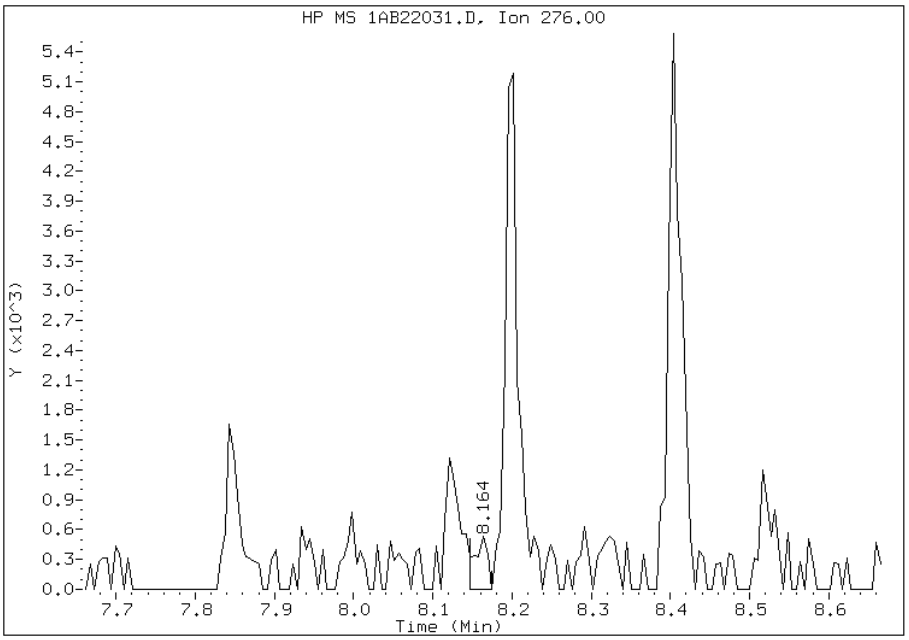
Processing Integration Results

RT: 8.16

Response: 602

Amount: 0

Conc: 2



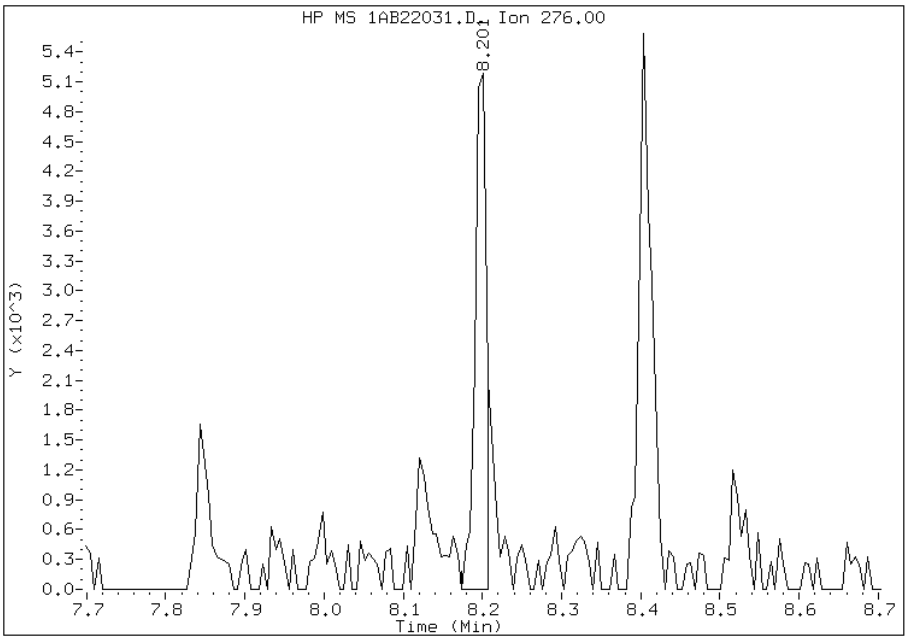
Manual Integration Results

RT: 8.20

Response: 4998

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0161AB-GS | Lab Sample ID: 680-87496-68

Matrix: Solid | Lab File ID: 1AB22032.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:35

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.20(g) | Date Analyzed: 02/22/2013 18:26

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

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

% Moisture: 20.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	7.9	J	50	6.2
120-12-7	Anthracene	15		10	5.2
56-55-3	Benzo[a]anthracene	61		10	4.9
50-32-8	Benzo[a]pyrene	38		13	6.5
205-99-2	Benzo[b]fluoranthene	55		15	7.6
191-24-2	Benzo[g,h,i]perylene	39		25	5.5
207-08-9	Benzo[k]fluoranthene	24		10	4.5
218-01-9	Chrysene	56		11	5.6
53-70-3	Dibenz(a,h)anthracene	15	J	25	5.1
206-44-0	Fluoranthene	55		25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	31		25	8.8
90-12-0	1-Methylnaphthalene	28	J	50	5.5
91-57-6	2-Methylnaphthalene	31	J	50	8.8
91-20-3	Naphthalene	36	J	50	5.5
85-01-8	Phenanthrene	52		10	4.9
129-00-0	Pyrene	58		25	4.6

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\1A022213_IC.b\1AB22032.D
Lab Smp Id: 680-87496-A-68-A Client Smp ID: FM0161AB-GS
Inj Date : 22-FEB-2013 18:26
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-68-a
Misc Info : 680-87496-A-68-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 32
Dil Factor: 1.00000
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	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	21.000	% 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	2.396	2.397	(1.000)	1023373	40.0000	
* 6 Acenaphthene-d10	164	3.422	3.417	(1.000)	815874	40.0000	
* 10 Phenanthrene-d10	188	4.362	4.352	(1.000)	1134954	40.0000	
$ 14 o-Terphenyl	230	4.640	4.635	(1.064)	117864	7.13688	594.3440
* 18 Chrysene-d12	240	6.382	6.366	(1.000)	731647	40.0000	
* 23 Perylene-d12	264	7.482	7.456	(1.000)	992110	40.0000	(H)
2 Naphthalene	128	2.407	2.402	(1.004)	10614	0.43042	35.8446
3 2-Methylnaphthalene	141	2.813	2.808	(1.174)	4710	0.36999	30.8118
4 1-Methylnaphthalene	142	2.867	2.861	(1.196)	4784	0.33748	28.1042
5 Acenaphthylene	152	3.337	3.332	(0.975)	2909	0.09549	7.9522
11 Phenanthrene	178	4.378	4.368	(1.004)	17762	0.62961	52.4325
12 Anthracene	178	4.410	4.400	(1.011)	4808	0.17546	14.6116
15 Fluoranthene	202	5.238	5.228	(1.201)	18809	0.66682	55.5310
16 Pyrene	202	5.404	5.394	(0.847)	14980	0.69804	58.1308
17 Benzo(a)anthracene	228	6.376	6.355	(0.999)	16174	0.74035	61.6547

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.392	6.387	(1.002)	13107	0.67083	55.8654
20 Benzo(b)fluoranthene	252	7.194	7.178	(0.961)	16633	0.66135	55.0760(MH)
21 Benzo(k)fluoranthene	252	7.204	7.199	(0.963)	7184	0.28393	23.6447(QM)
22 Benzo(a)pyrene	252	7.423	7.408	(0.992)	10518	0.45667	38.0304(H)
24 Indeno(1,2,3-cd)pyrene	276	8.203	8.177	(1.096)	7468	0.37795	31.4745(MH)
25 Dibenzo(a,h)anthracene	278	8.214	8.193	(1.098)	3630	0.17629	14.6811(H)
26 Benzo(g,h,i)perylene	276	8.412	8.385	(1.124)	9766	0.46469	38.6979(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: 1AB22032.D

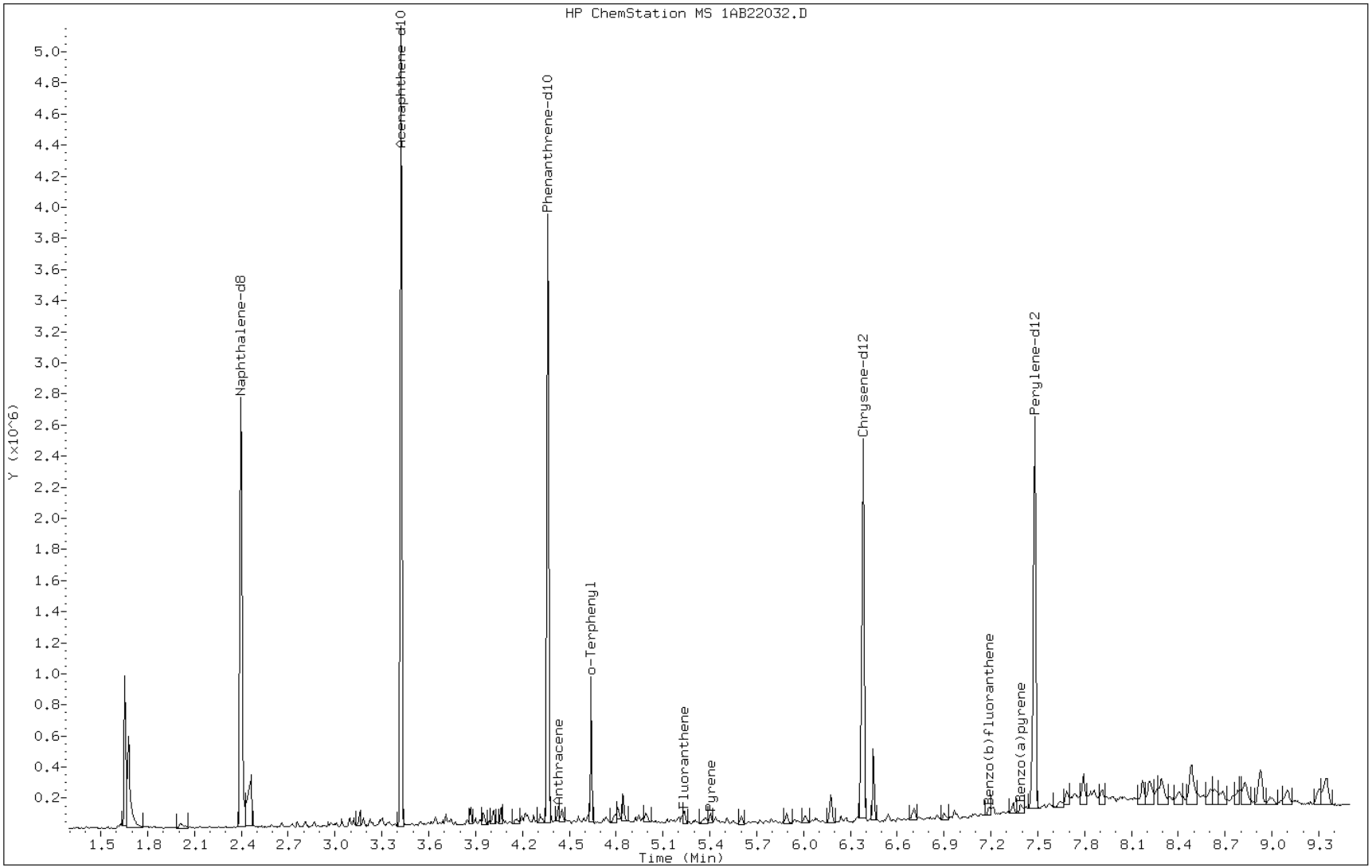
Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a

Operator: SCC



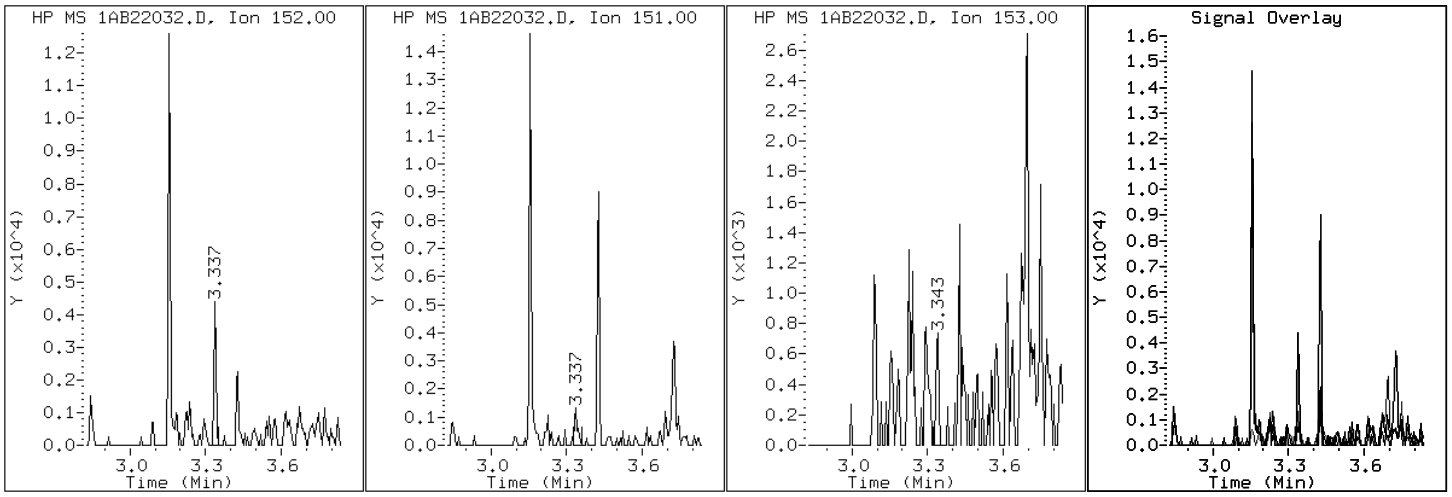
Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a Operator: SCC

5 Acenaphthylene



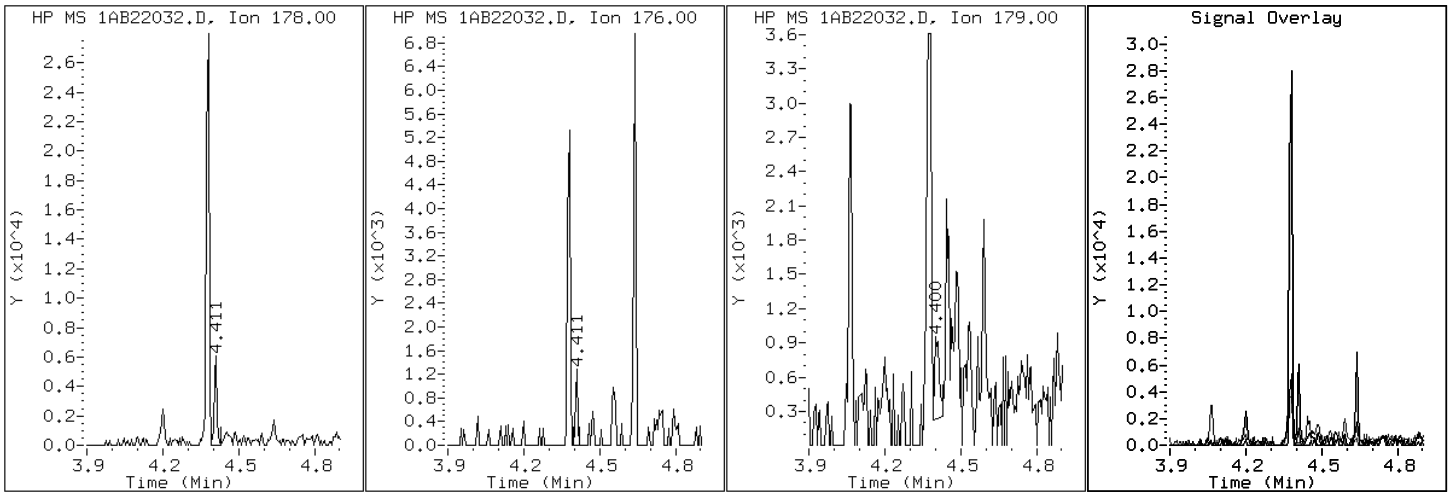
Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a Operator: SCC

12 Anthracene



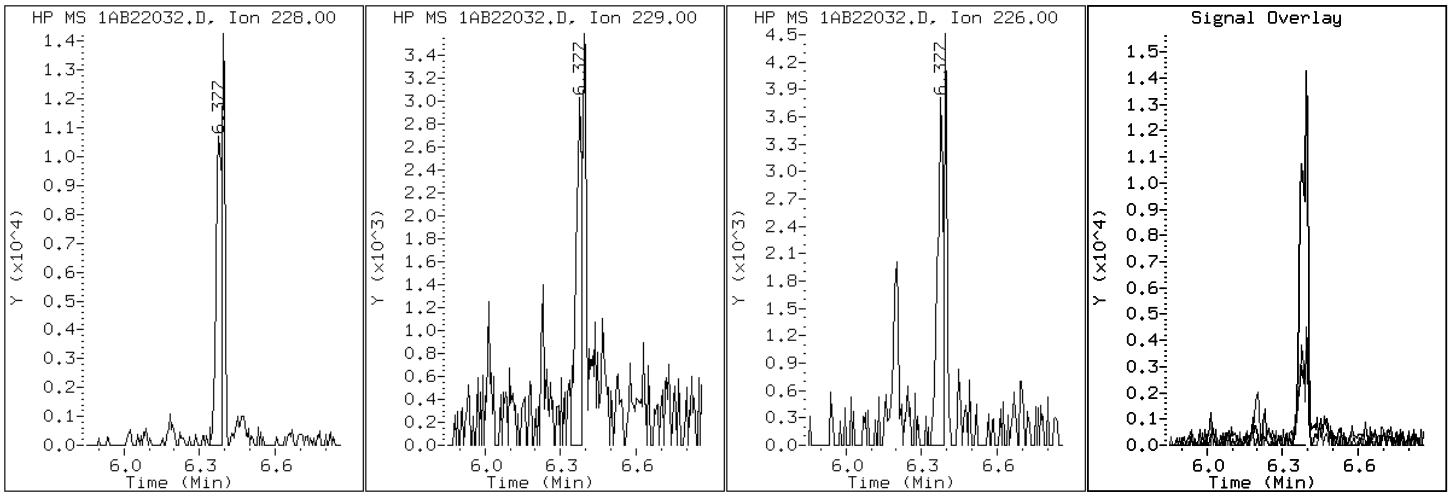
Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a Operator: SCC

17 Benzo(a)anthracene



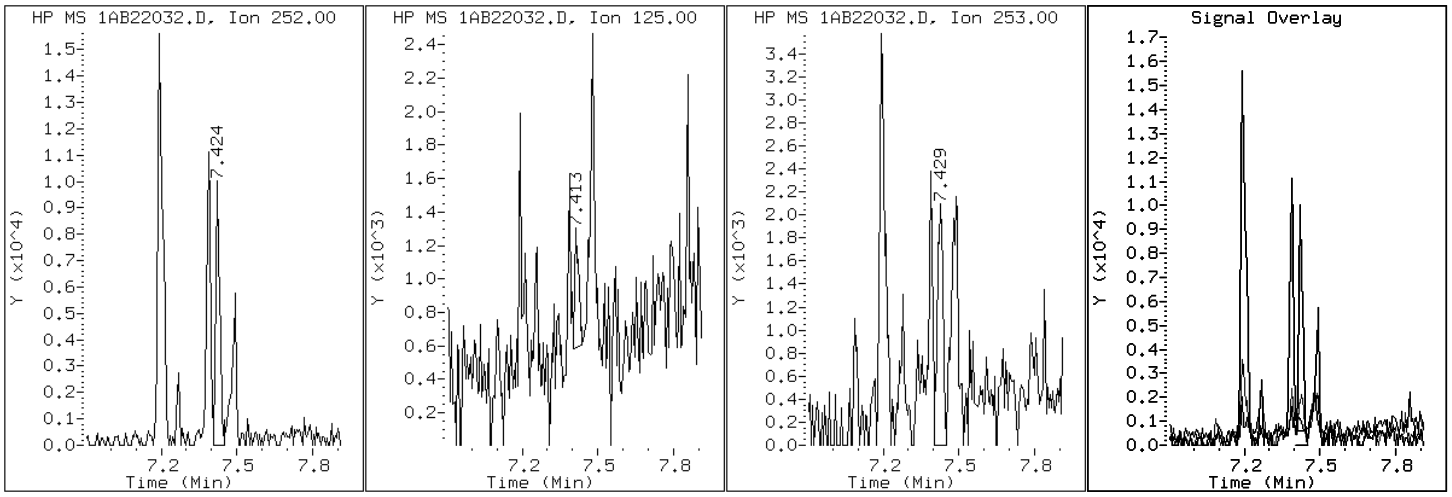
Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

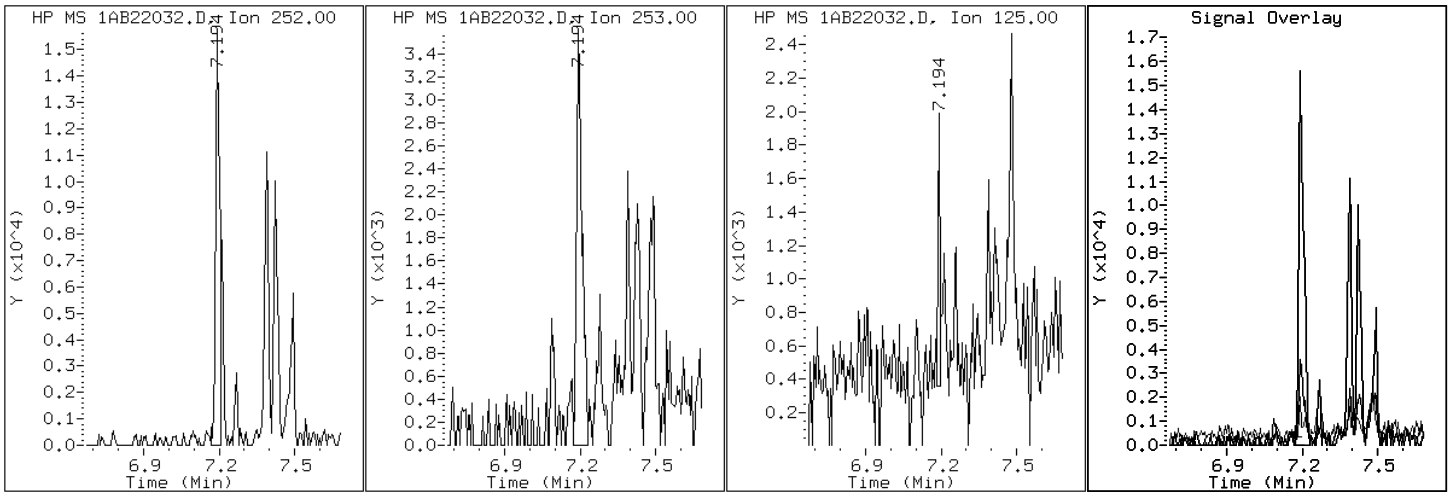
Client ID: FM0161AB-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

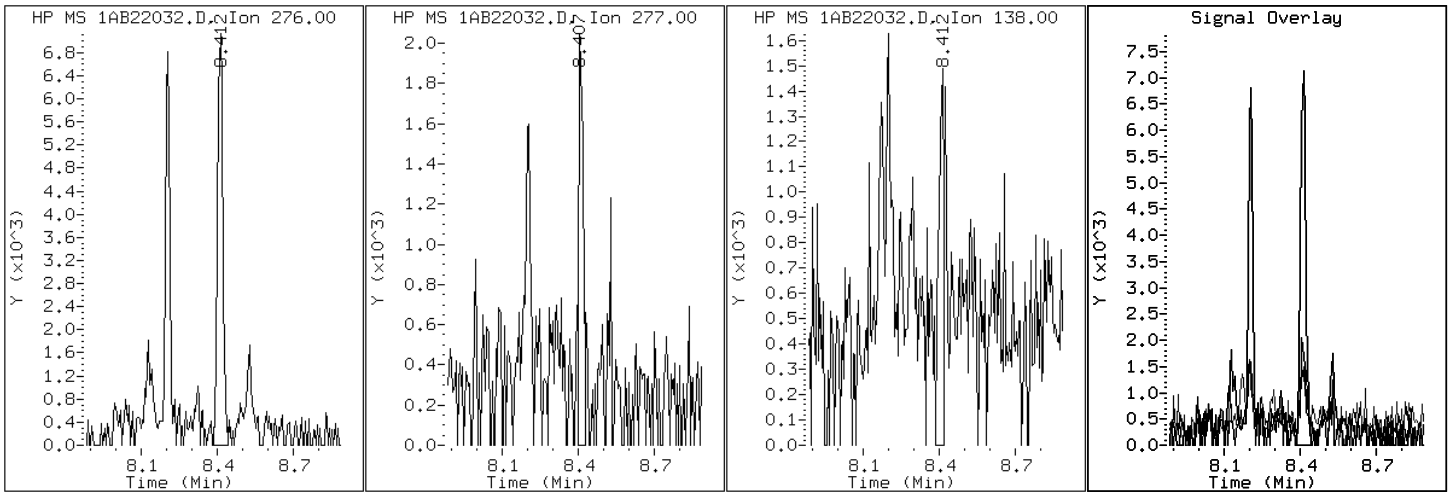
Client ID: FM0161AB-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

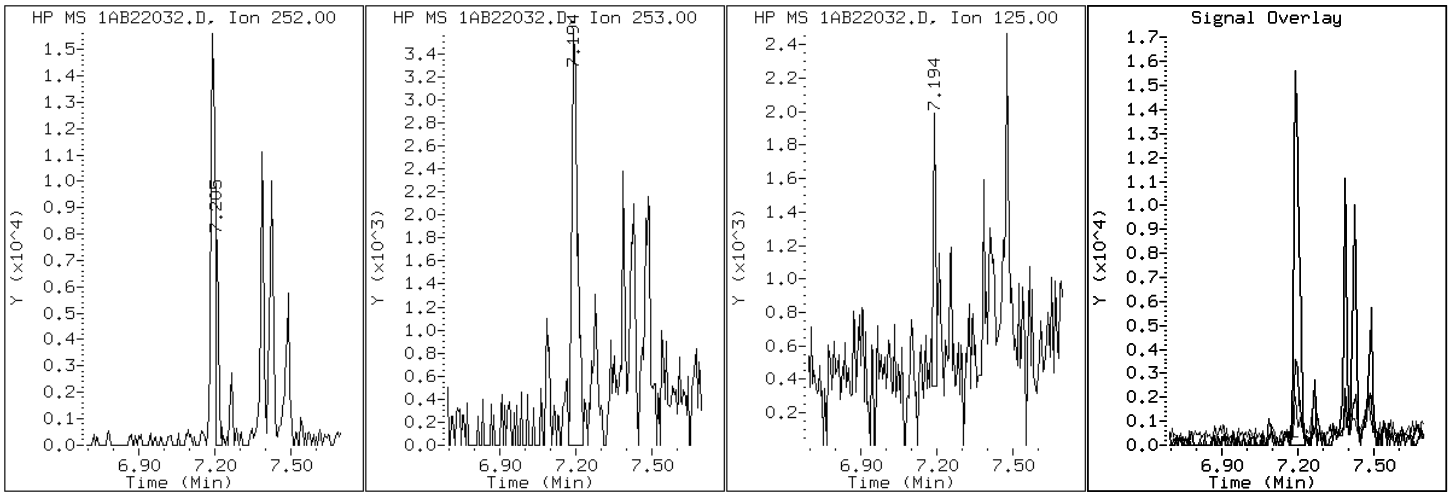
Client ID: FM0161AB-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a

Operator: SCC

21 Benzo(k)fluoranthene



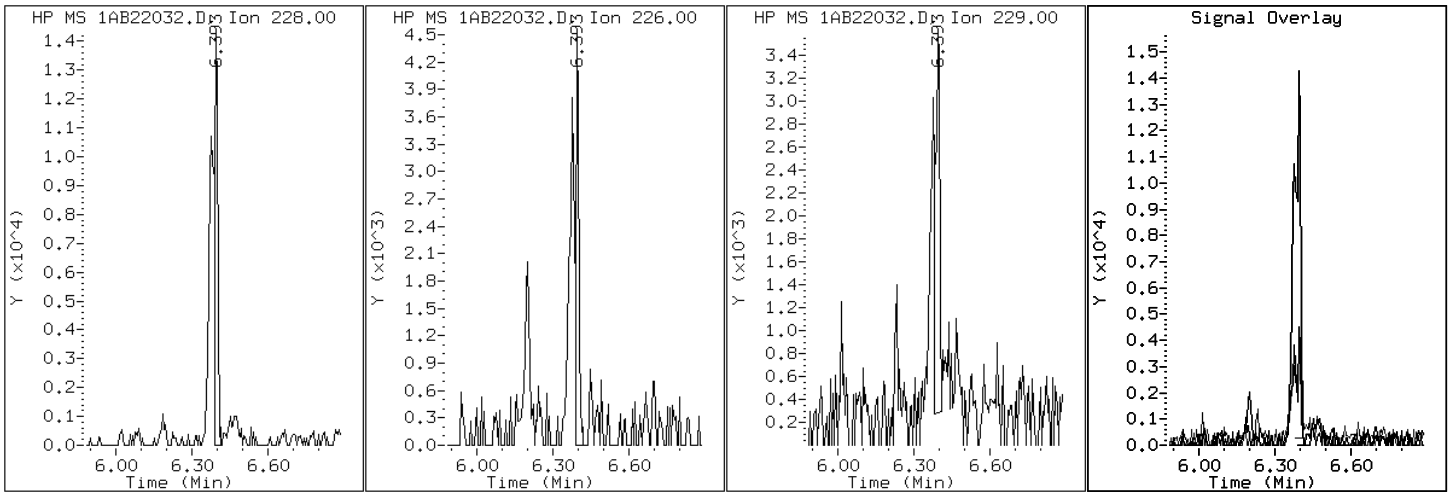
Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a Operator: SCC

19 Chrysene



Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

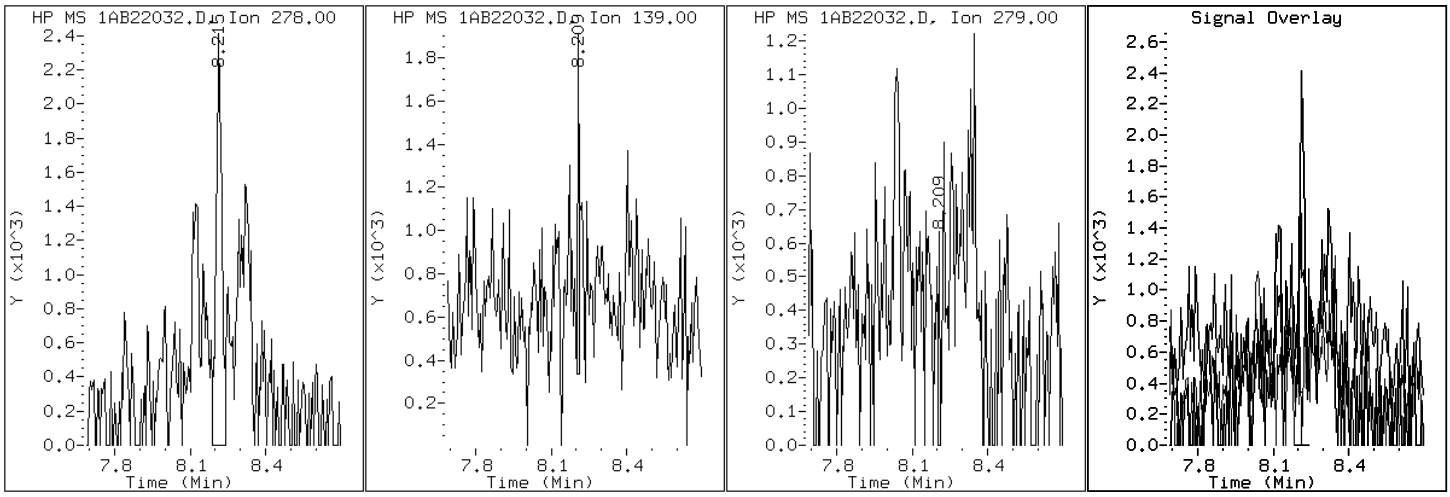
Client ID: FM0161AB-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

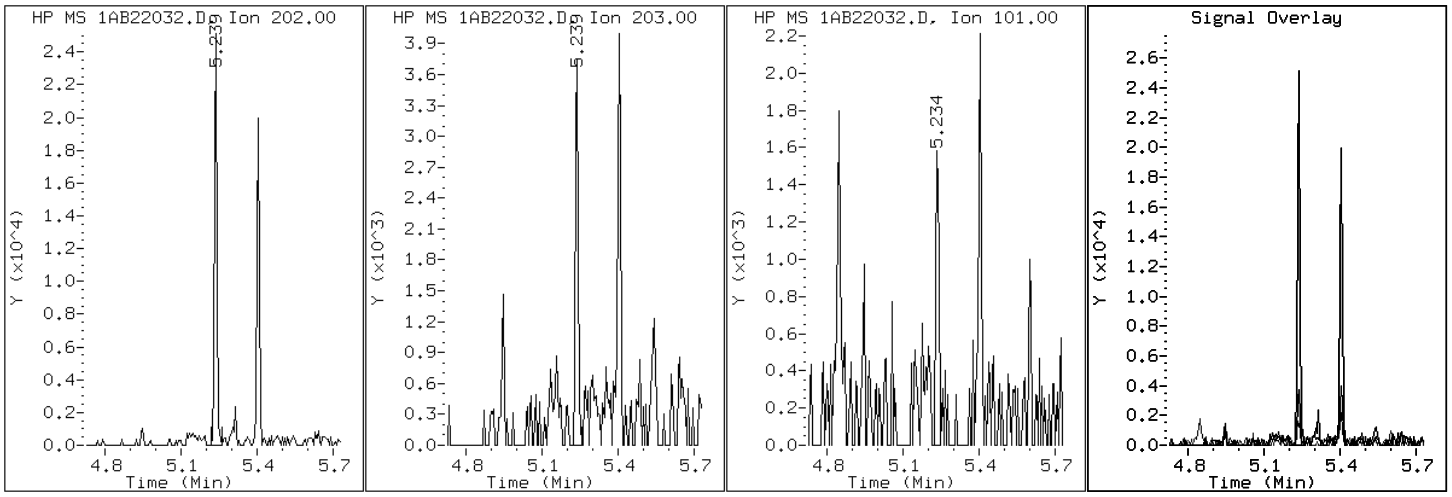
Client ID: FM0161AB-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a

Operator: SCC

15 Fluoranthene



Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

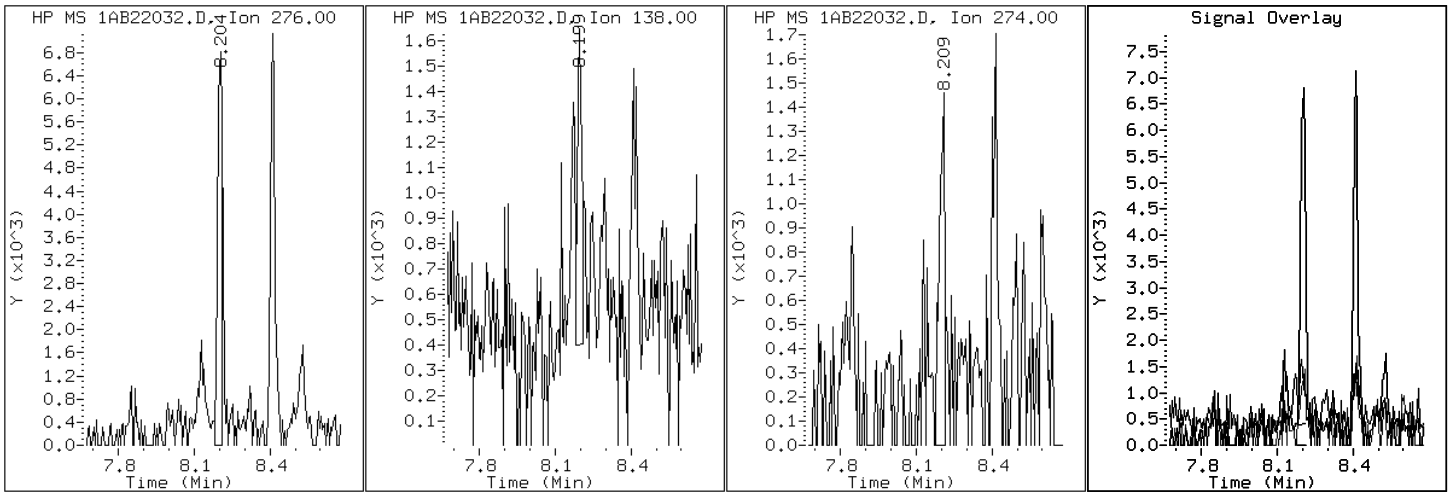
Client ID: FM0161AB-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a

Operator: SCC

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



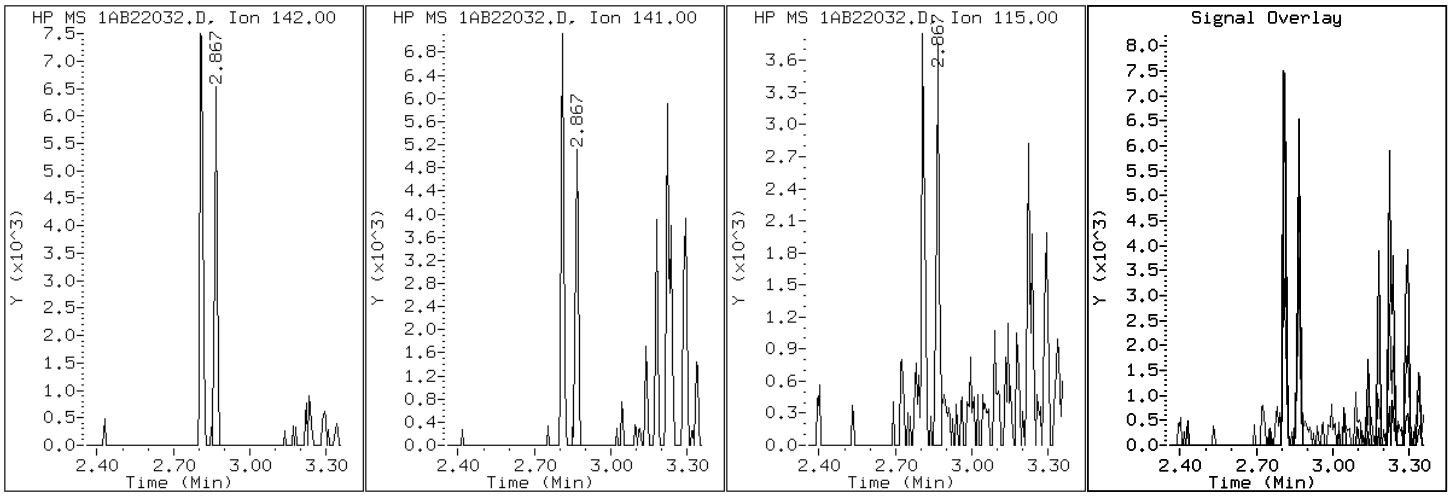
Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a Operator: SCC

4 1-Methylnaphthalene



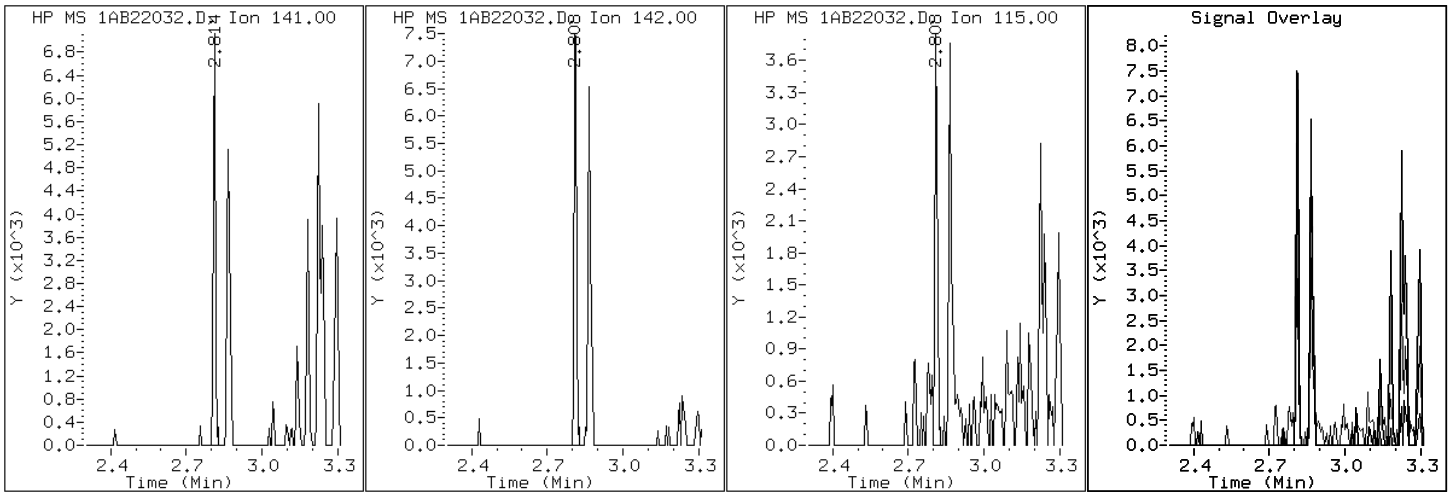
Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a Operator: SCC

3 2-Methylnaphthalene



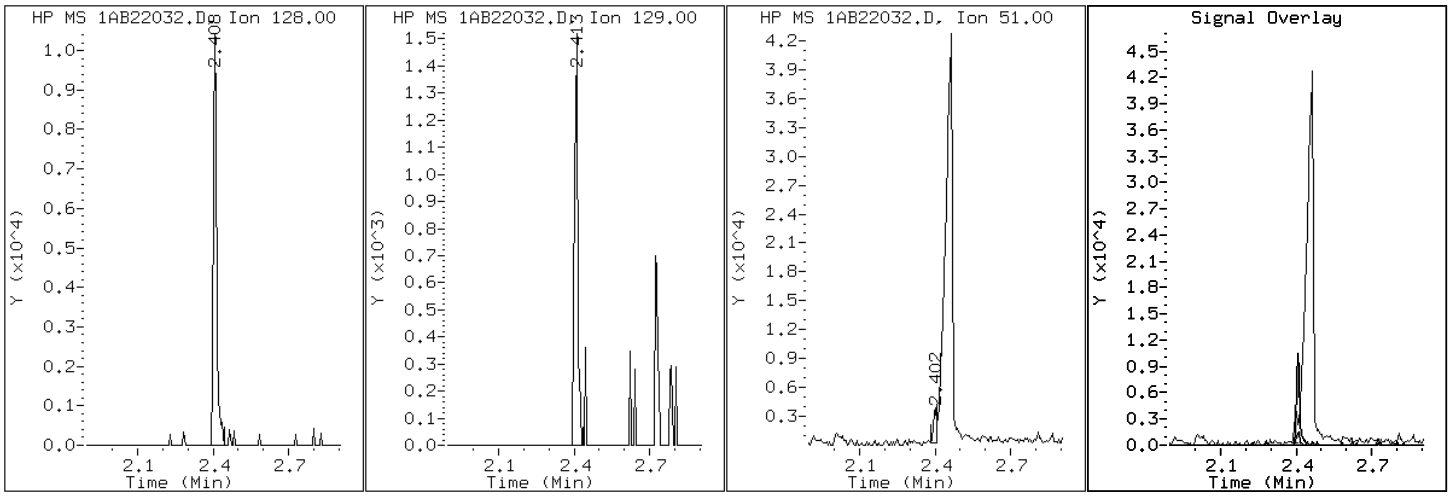
Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a Operator: SCC

2 Naphthalene



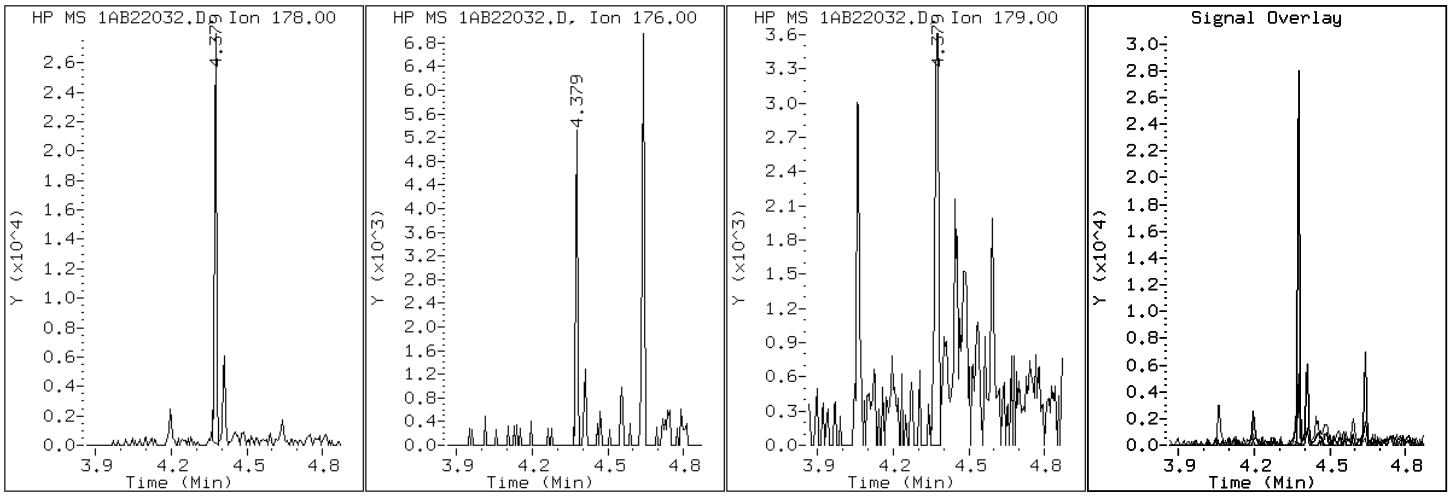
Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a Operator: SCC

11 Phenanthrene



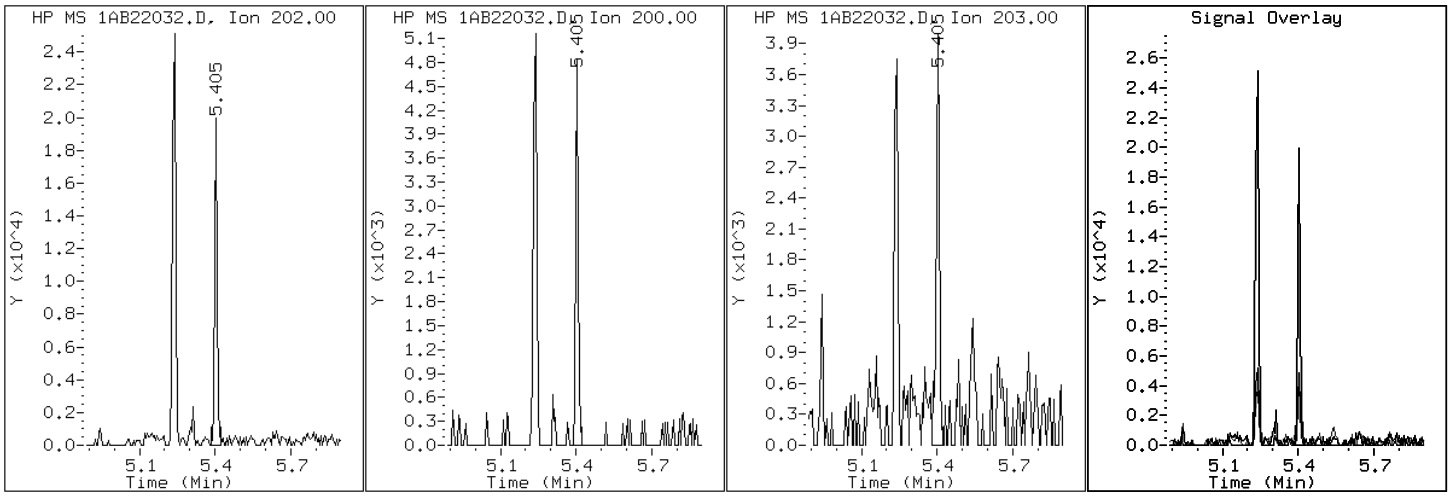
Data File: 1AB22032.D

Date: 22-FEB-2013 18:26

Client ID: FM0161AB-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-68-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22032.D
Inj. Date and Time: 22-FEB-2013 18:26
Instrument ID: BSMA5973.i
Client ID: FM0161AB-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

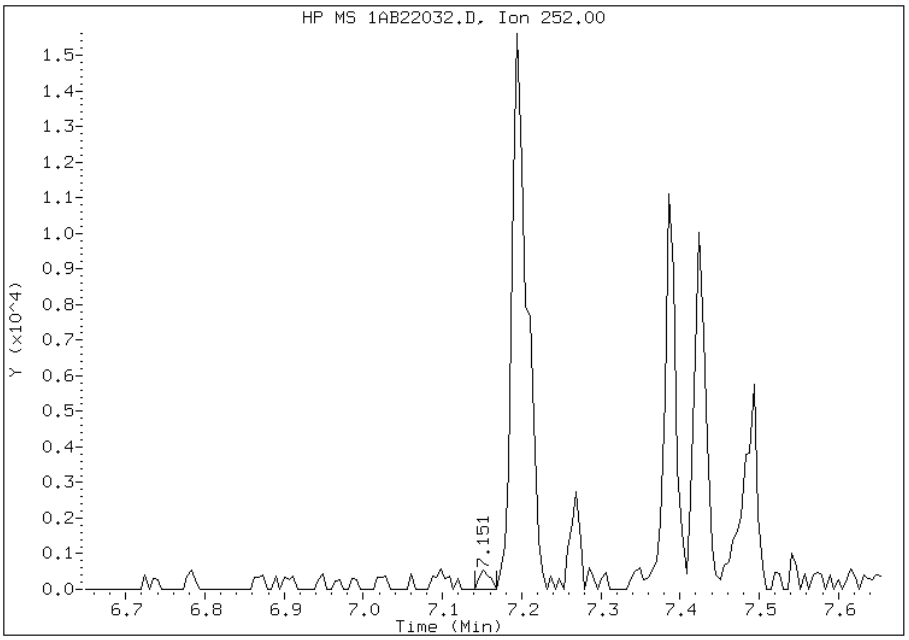
Processing Integration Results

RT: 7.15

Response: 500

Amount: 0

Conc: 2



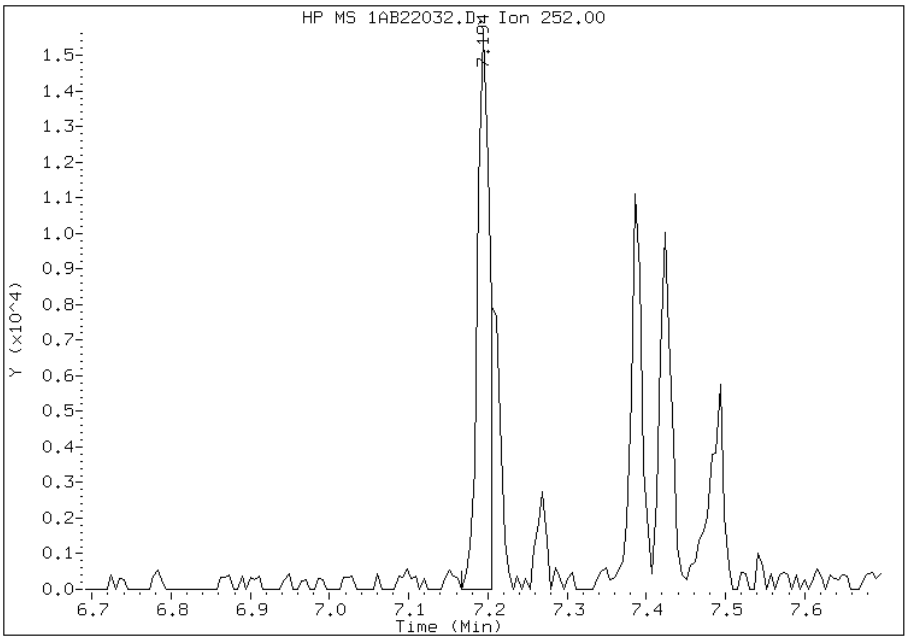
Manual Integration Results

RT: 7.19

Response: 16633

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22032.D
Inj. Date and Time: 22-FEB-2013 18:26
Instrument ID: BSMA5973.i
Client ID: FM0161AB-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

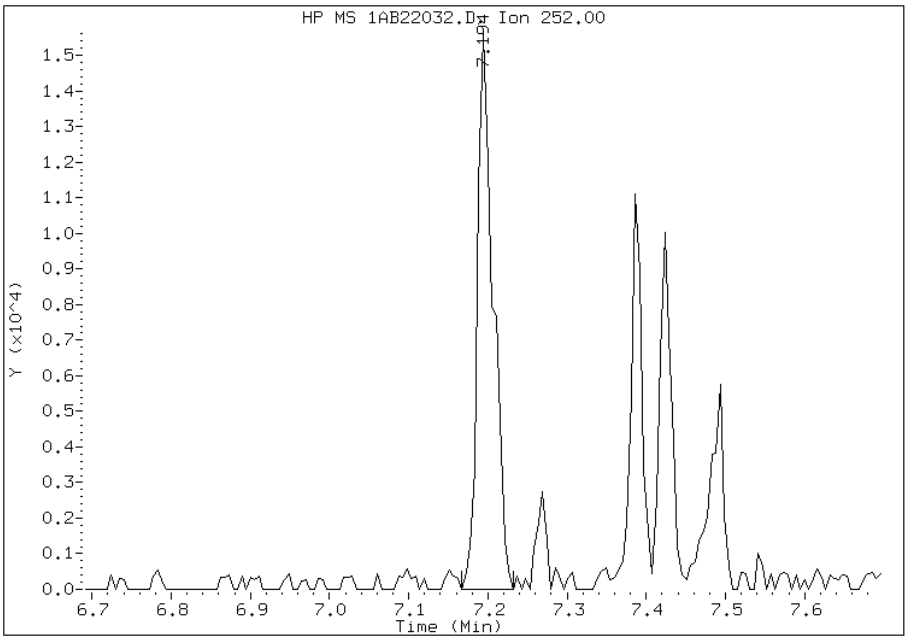
Processing Integration Results

RT: 7.19

Response: 21240

Amount: 1

Conc: 70



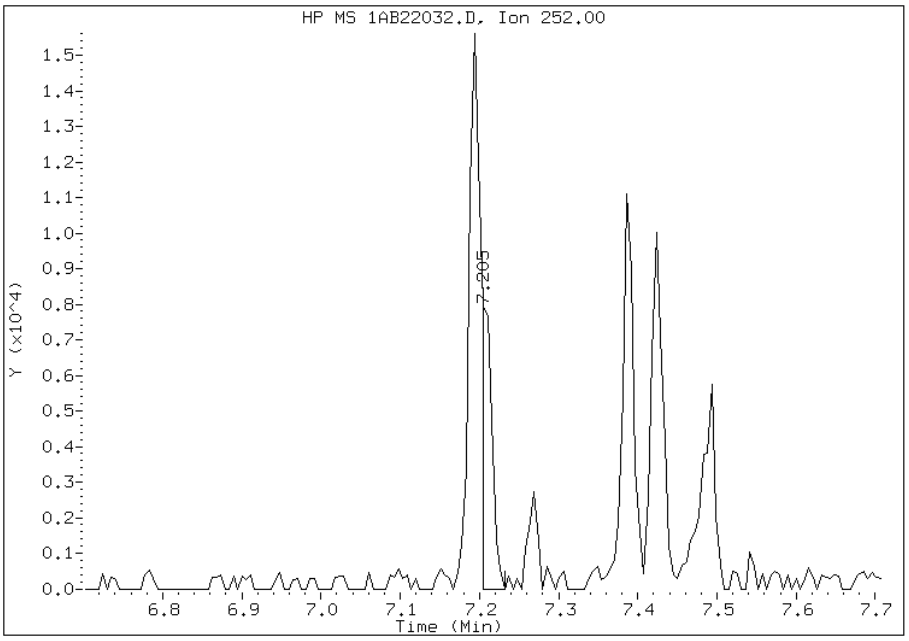
Manual Integration Results

RT: 7.20

Response: 7184

Amount: 0

Conc: 24



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22032.D
Inj. Date and Time: 22-FEB-2013 18:26
Instrument ID: BSMA5973.i
Client ID: FM0161AB-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

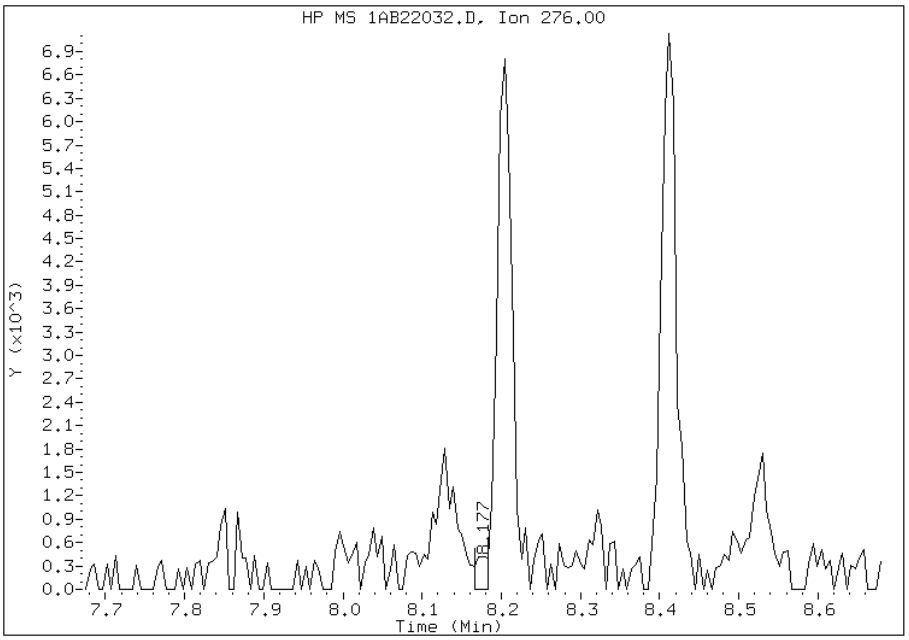
Processing Integration Results

RT: 8.18

Response: 495

Amount: 0

Conc: 2



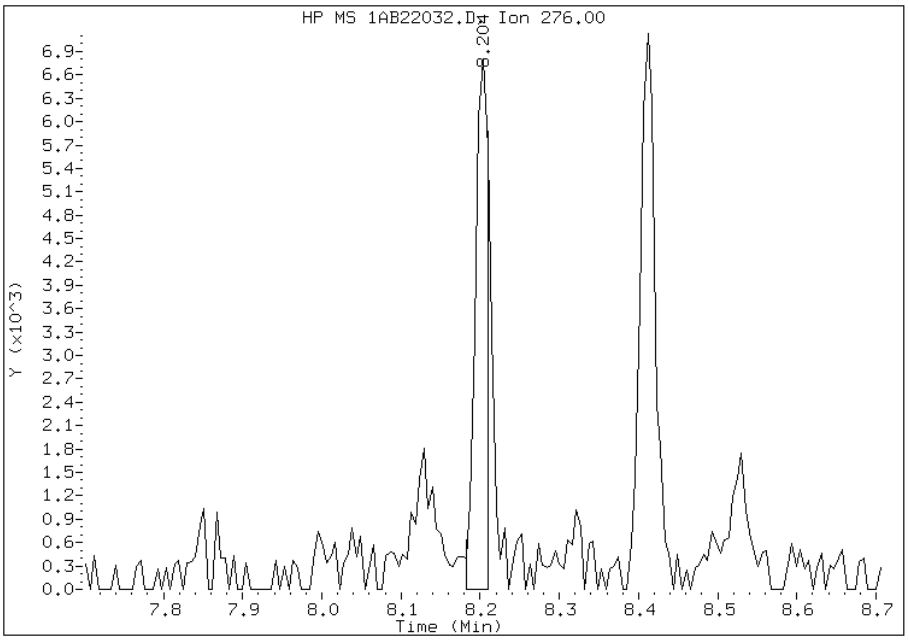
Manual Integration Results

RT: 8.20

Response: 7468

Amount: 0

Conc: 31



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0161AC-GS | Lab Sample ID: 680-87496-69

Matrix: Solid | Lab File ID: 1AB22033.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:45

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.00(g) | Date Analyzed: 02/22/2013 18:41

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

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

% Moisture: 6.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	7.0	J	43	5.3
120-12-7	Anthracene	13		9.0	4.5
56-55-3	Benzo[a]anthracene	46		8.6	4.2
50-32-8	Benzo[a]pyrene	32		11	5.6
205-99-2	Benzo[b]fluoranthene	48		13	6.5
191-24-2	Benzo[g,h,i]perylene	36		21	4.7
207-08-9	Benzo[k]fluoranthene	19		8.6	3.8
218-01-9	Chrysene	61		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	12	J	21	4.4
206-44-0	Fluoranthene	51		21	4.3
86-73-7	Fluorene	21	U	21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	25		21	7.6
90-12-0	1-Methylnaphthalene	26	J	43	4.7
91-57-6	2-Methylnaphthalene	38	J	43	7.6
91-20-3	Naphthalene	39	J	43	4.7
85-01-8	Phenanthrene	54		8.6	4.2
129-00-0	Pyrene	50		21	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22033.D
Lab Smp Id: 680-87496-A-69-A Client Smp ID: FM0161AC-GS
Inj Date : 22-FEB-2013 18:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-69-a
Misc Info : 680-87496-A-69-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 33
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	6.452	% 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	2.401	2.397	(1.000)	1014482	40.0000	
* 6 Acenaphthene-d10	164	3.426	3.417	(1.000)	791830	40.0000	
* 10 Phenanthrene-d10	188	4.367	4.352	(1.000)	1083011	40.0000	
$ 14 o-Terphenyl	230	4.639	4.635	(1.062)	93965	5.96264	424.9240
* 18 Chrysene-d12	240	6.386	6.366	(1.000)	740981	40.0000	
* 23 Perylene-d12	264	7.486	7.456	(1.000)	1103297	40.0000	(H)
2 Naphthalene	128	2.411	2.402	(1.004)	13324	0.54506	38.8430
3 2-Methylnaphthalene	141	2.812	2.808	(1.171)	6768	0.53631	38.2199
4 1-Methylnaphthalene	142	2.865	2.861	(1.194)	5073	0.36100	25.7263
5 Acenaphthylene	152	3.341	3.332	(0.975)	2906	0.09829	7.0045
11 Phenanthrene	178	4.377	4.368	(1.002)	20228	0.75141	53.5488
12 Anthracene	178	4.409	4.400	(1.010)	4682	0.17905	12.7600
13 Carbazole	167	4.570	4.555	(1.046)	2237	0.09691	6.9063(Q)
15 Fluoranthene	202	5.237	5.228	(1.199)	19187	0.71284	50.8002

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.408	5.394	(0.847)	15168	0.69789	49.7348
17 Benzo(a)anthracene	228	6.380	6.355	(0.999)	14224	0.64289	45.8150
19 Chrysene	228	6.397	6.387	(1.002)	16954	0.85680	61.0590
20 Benzo(b)fluoranthene	252	7.198	7.178	(0.961)	18759	0.67072	47.7983(MH)
21 Benzo(k)fluoranthene	252	7.209	7.199	(0.963)	7439	0.26438	18.8405(QMH)
22 Benzo(a)pyrene	252	7.428	7.408	(0.992)	11428	0.44618	31.7964(H)
24 Indeno(1,2,3-cd)pyrene	276	8.208	8.177	(1.096)	7817	0.35574	25.3515(MH)
25 Dibenzo(a,h)anthracene	278	8.218	8.193	(1.098)	3729	0.16285	11.6052(H)
26 Benzo(g,h,i)perylene	276	8.421	8.385	(1.125)	11717	0.50133	35.7271(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: 1AB22033.D

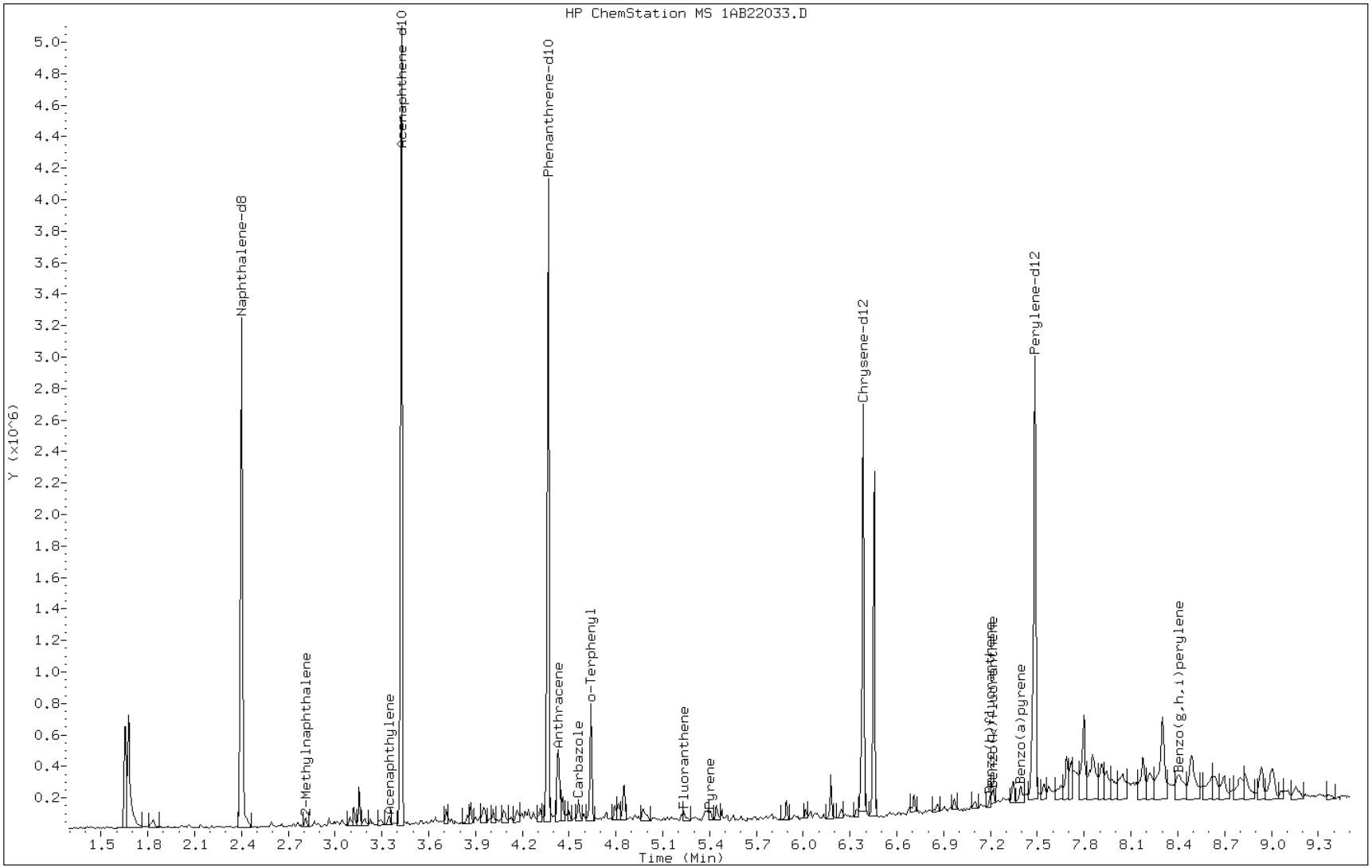
Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a

Operator: SCC



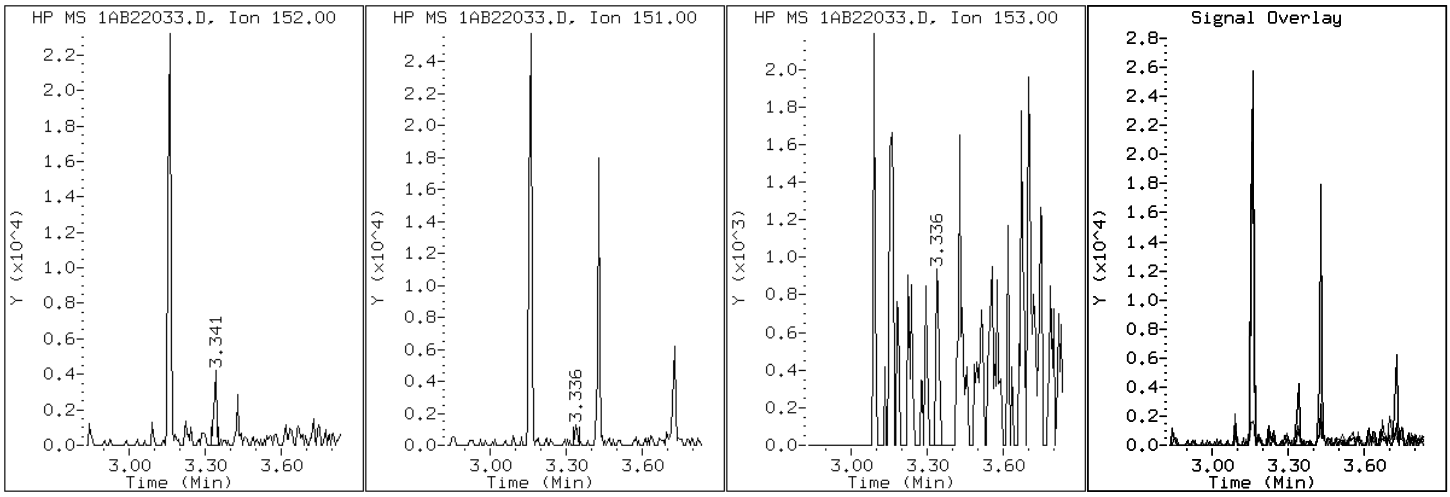
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

5 Acenaphthylene



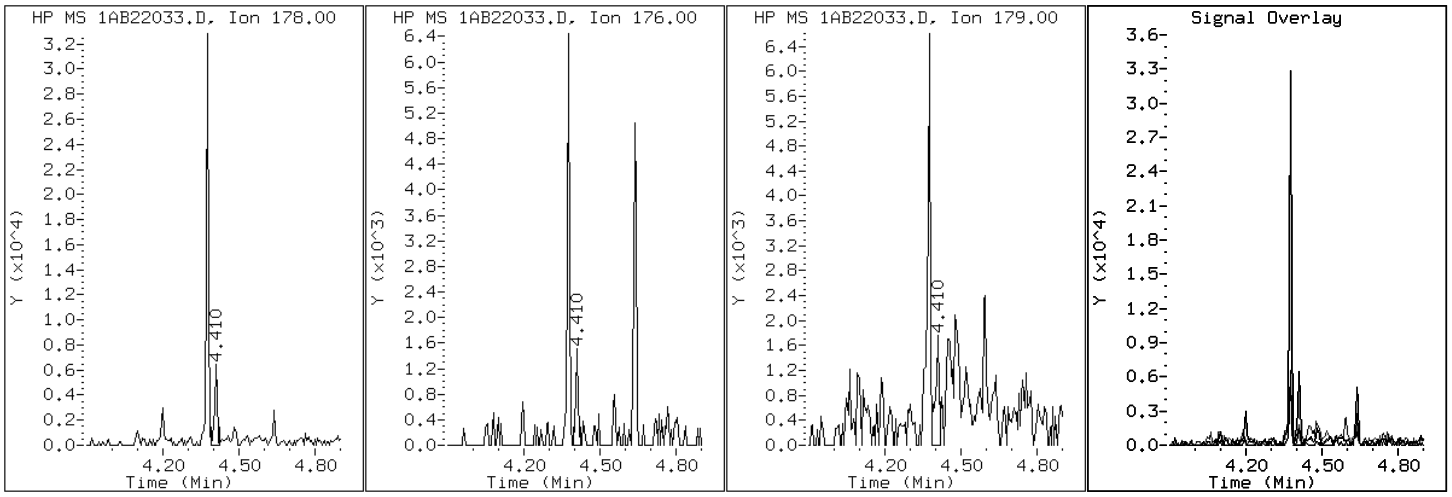
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

12 Anthracene



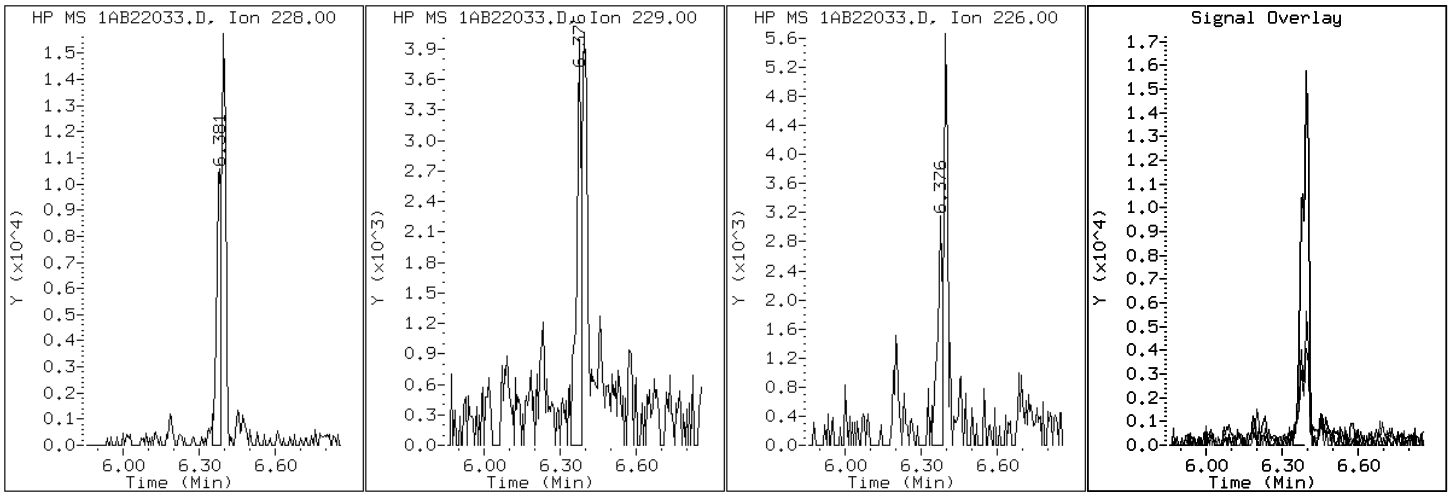
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

17 Benzo(a)anthracene



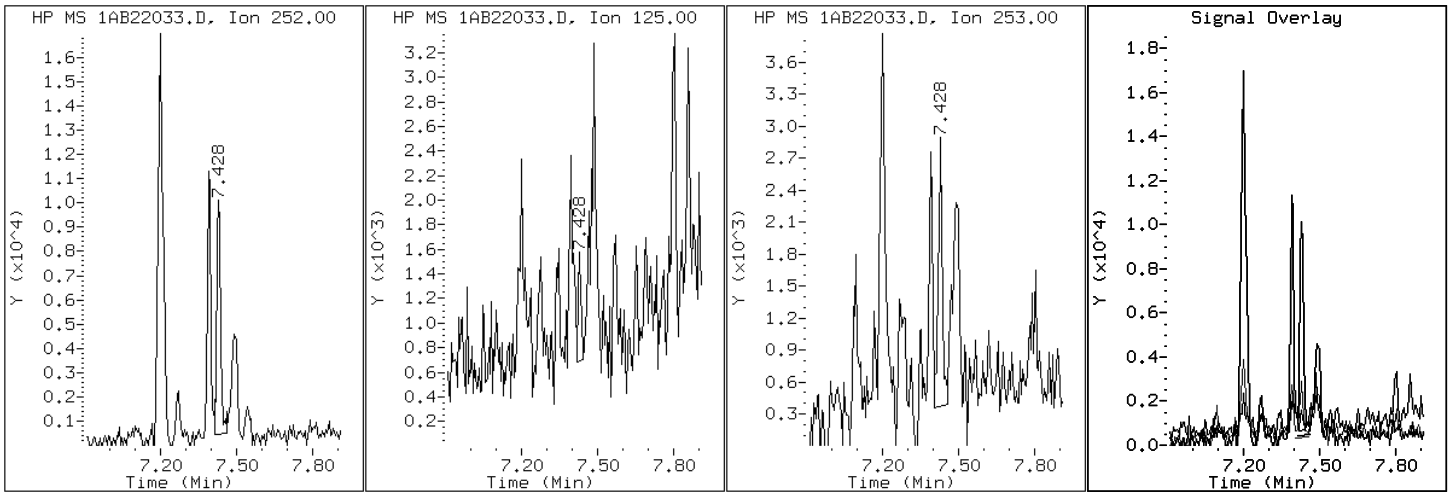
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

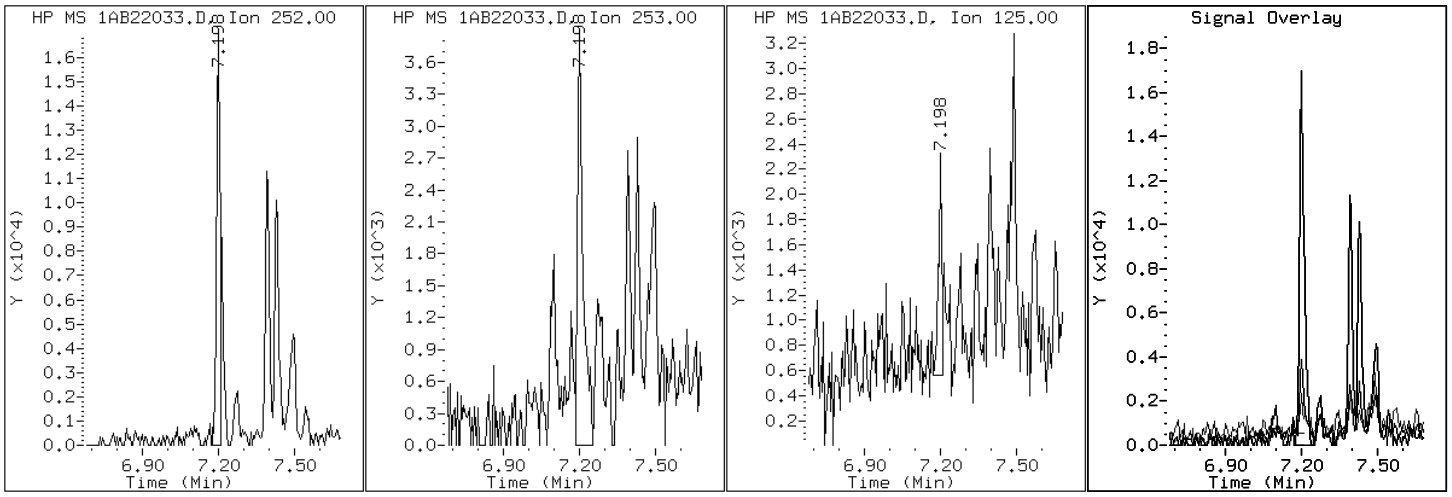
Client ID: FM0161AC-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a

Operator: SCC

20 Benzo(b)fluoranthene



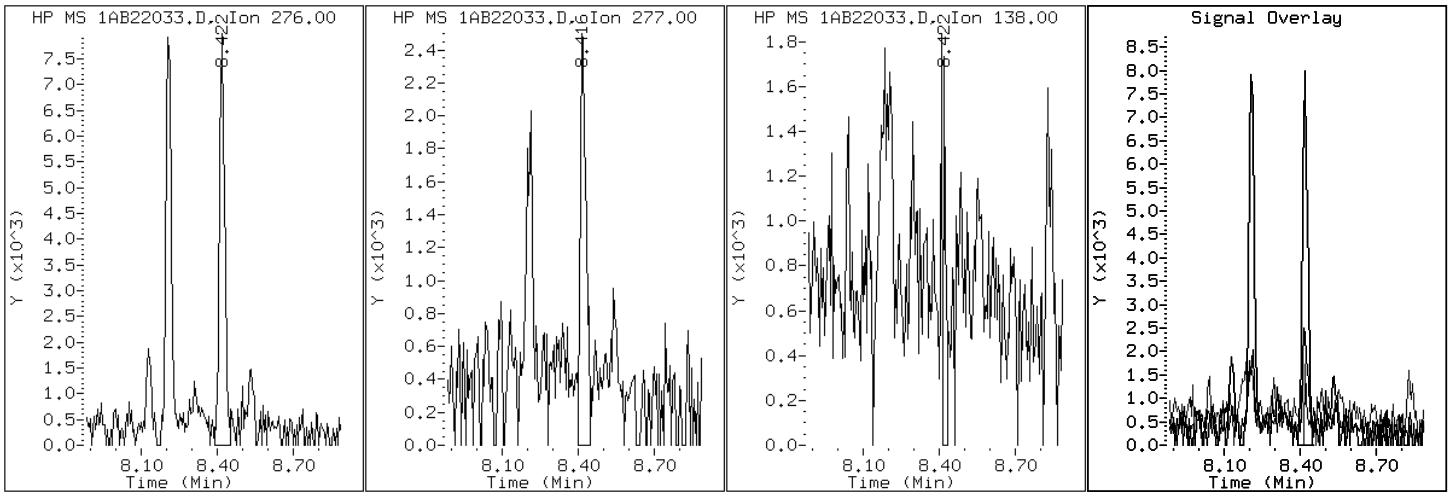
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

26 Benzo(g,h,i)perylene



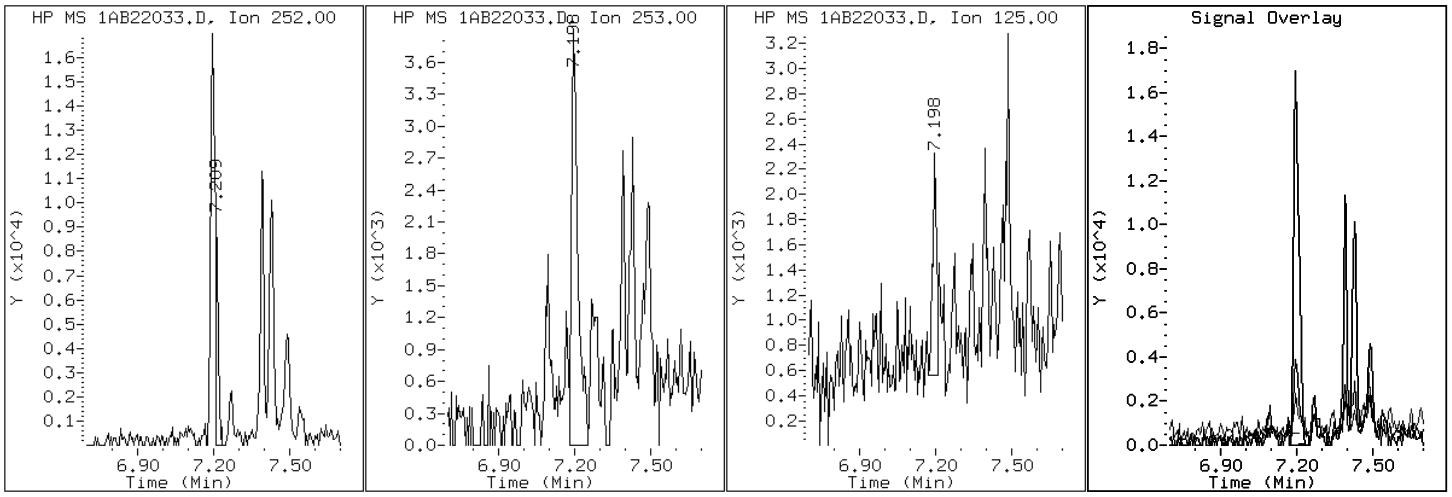
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

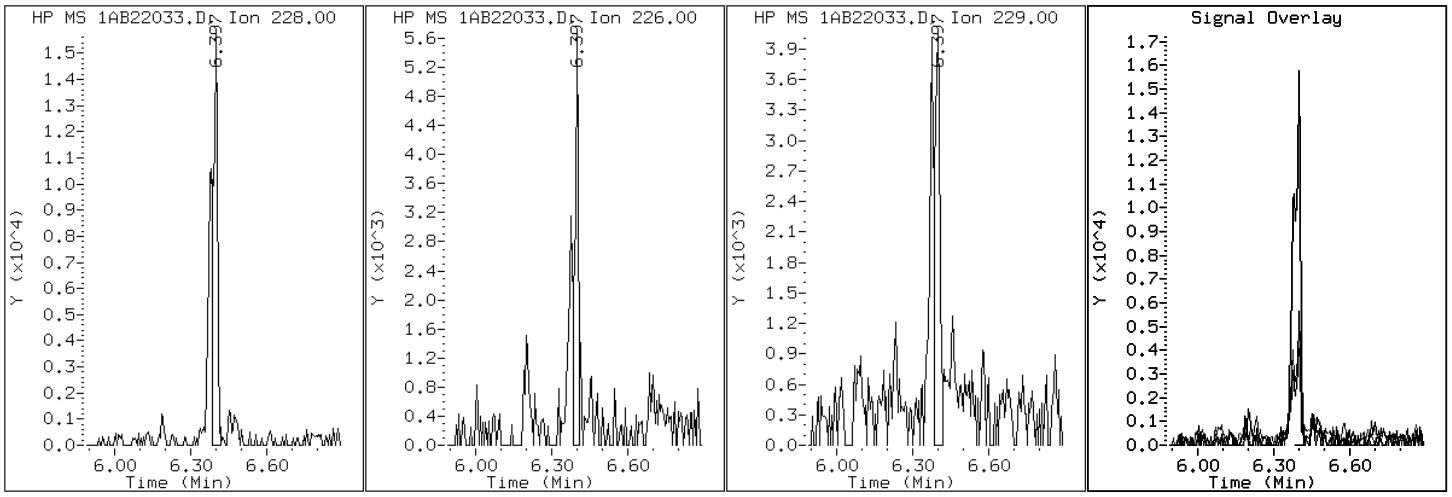
Client ID: FM0161AC-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a

Operator: SCC

19 Chrysene



Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

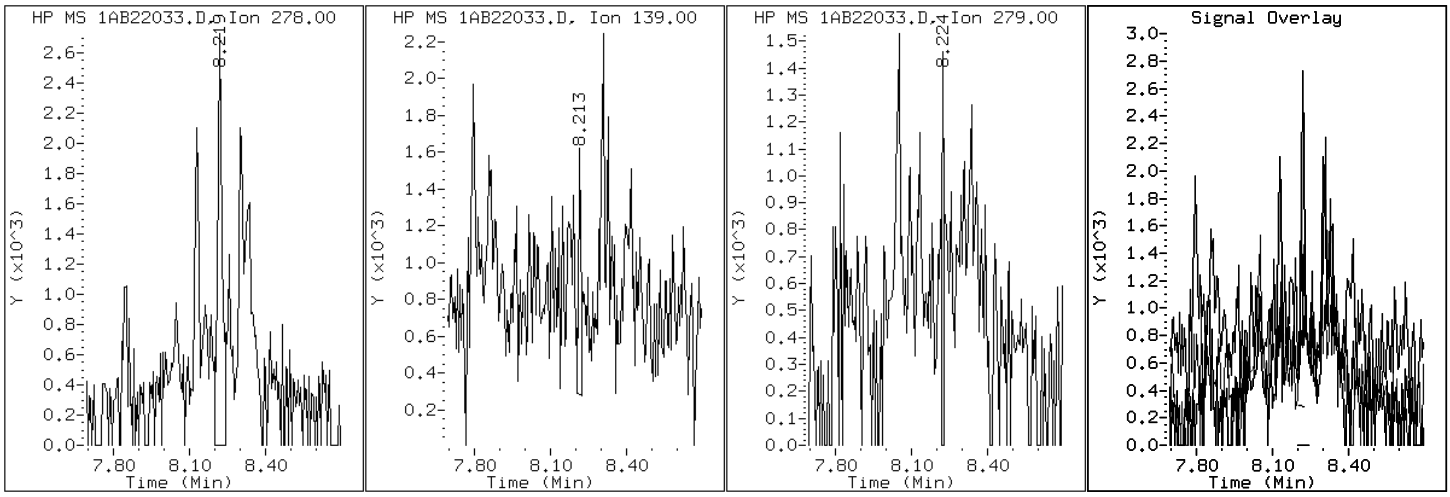
Client ID: FM0161AC-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a

Operator: SCC

25 Dibenzo(a,h)anthracene



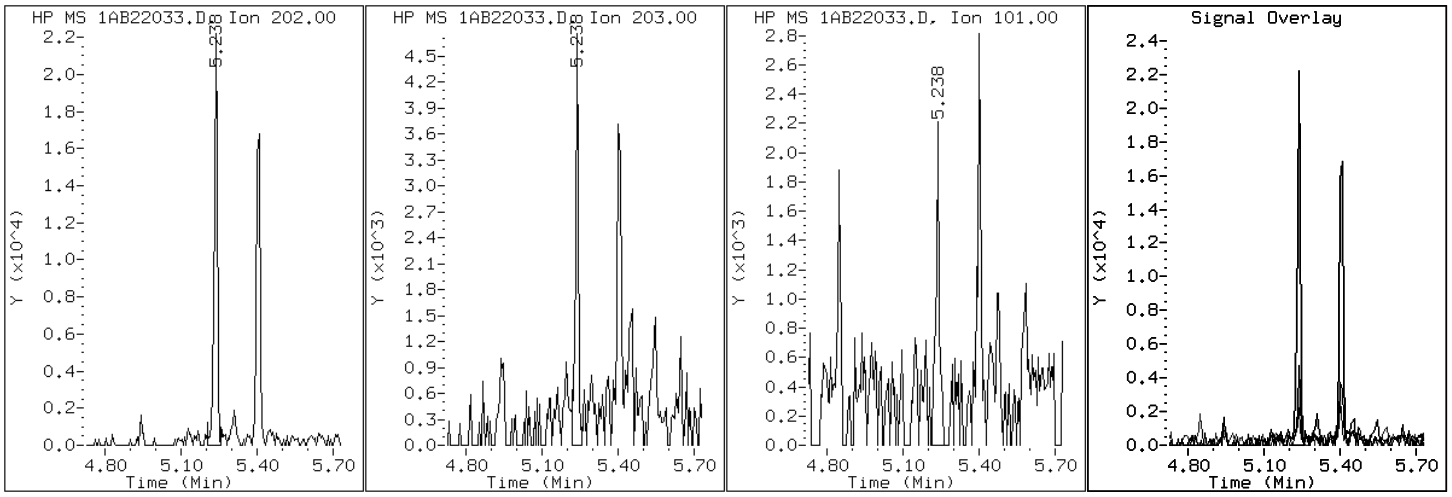
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

15 Fluoranthene



Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

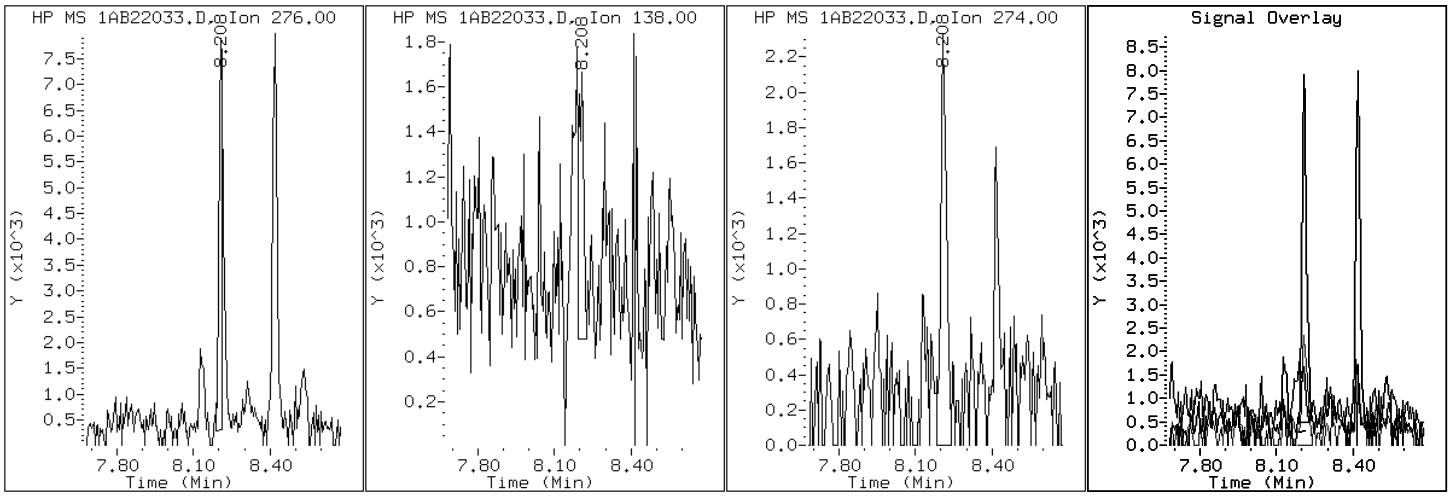
Client ID: FM0161AC-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a

Operator: SCC

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



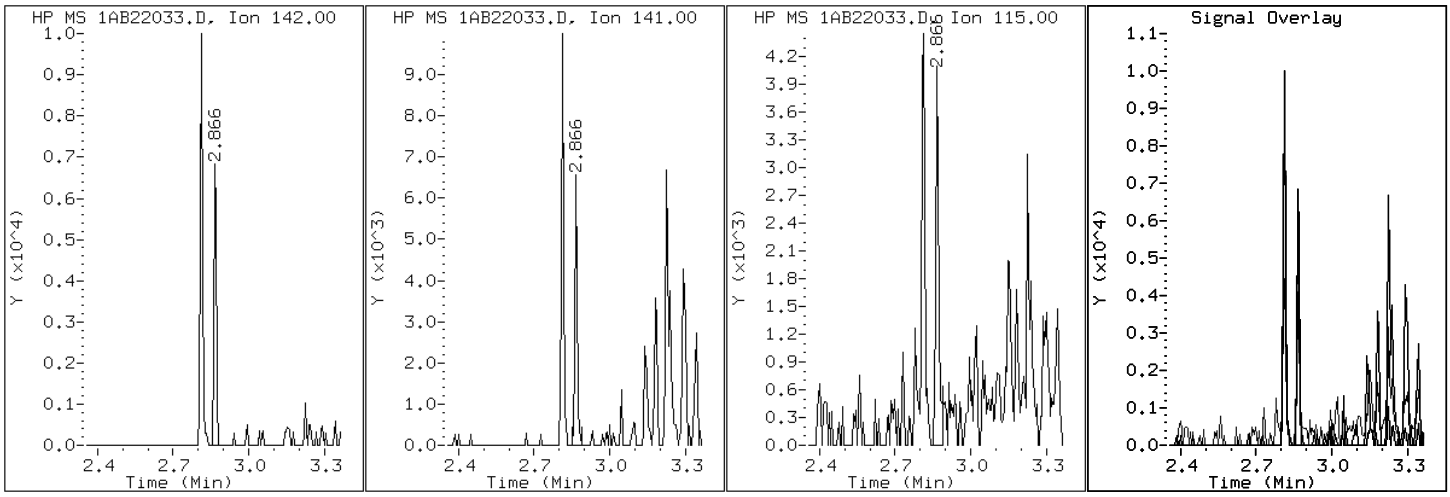
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

4 1-Methylnaphthalene



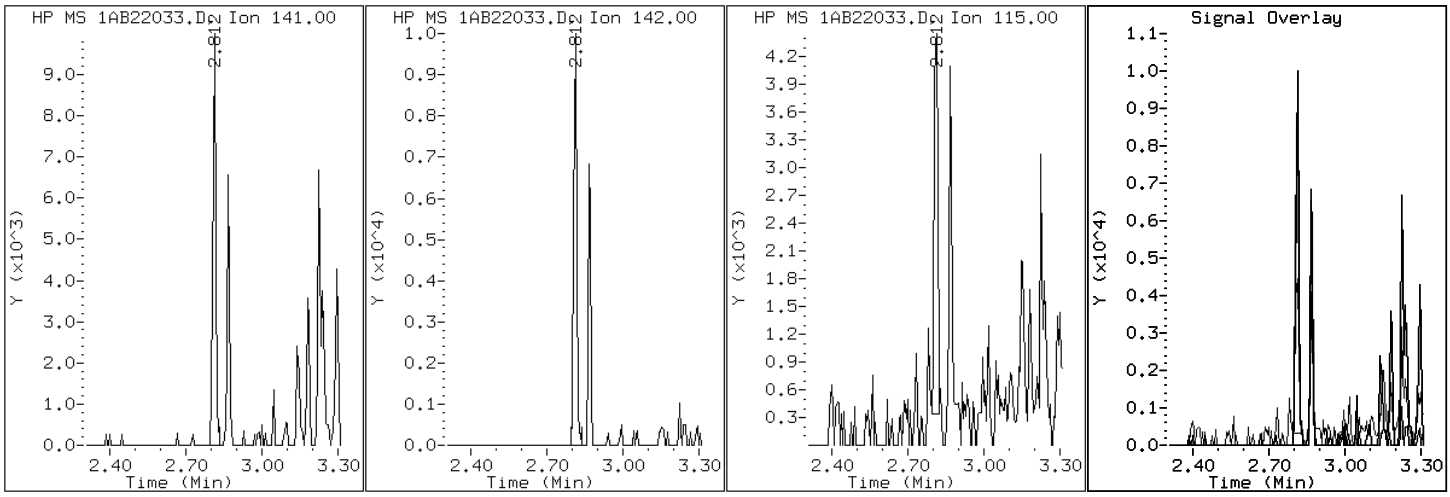
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

3 2-Methylnaphthalene



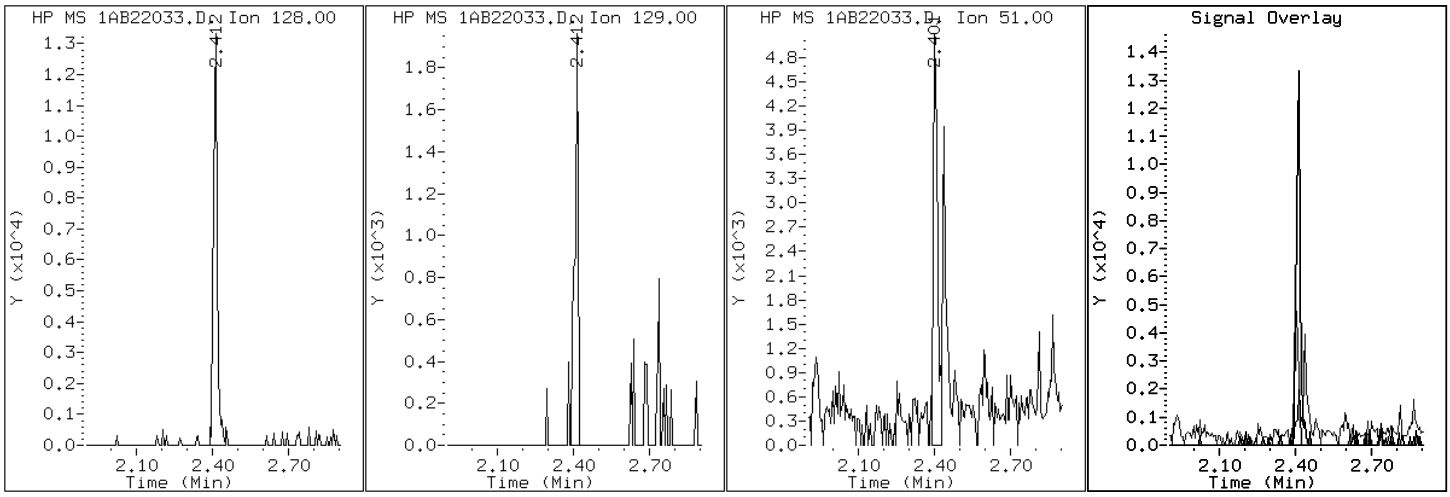
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

2 Naphthalene



Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

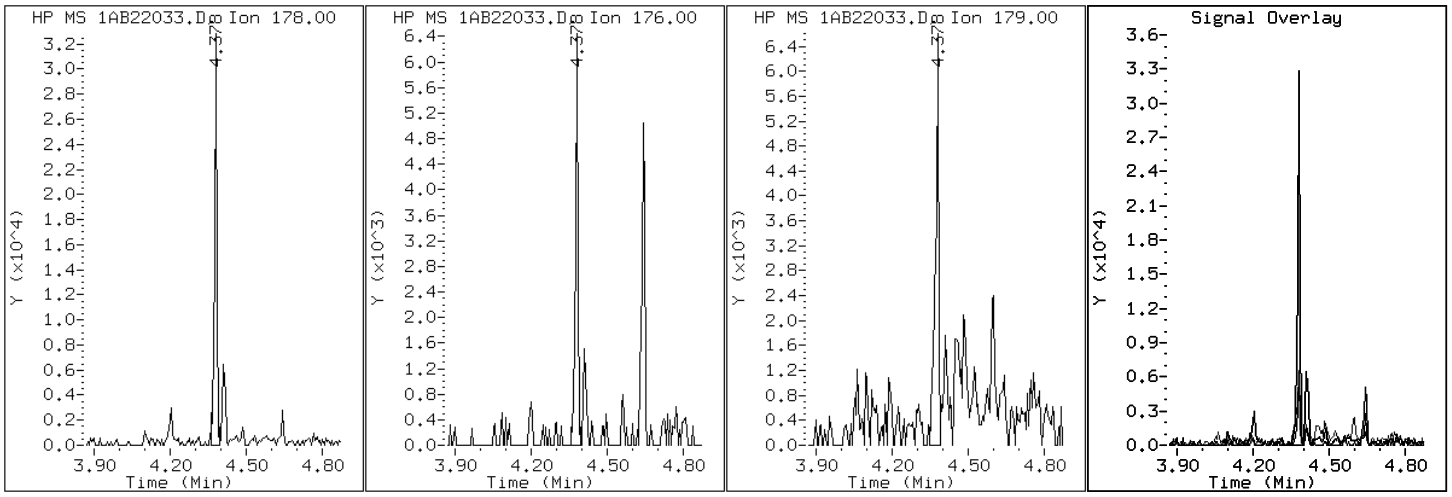
Client ID: FM0161AC-GS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a

Operator: SCC

11 Phenanthrene



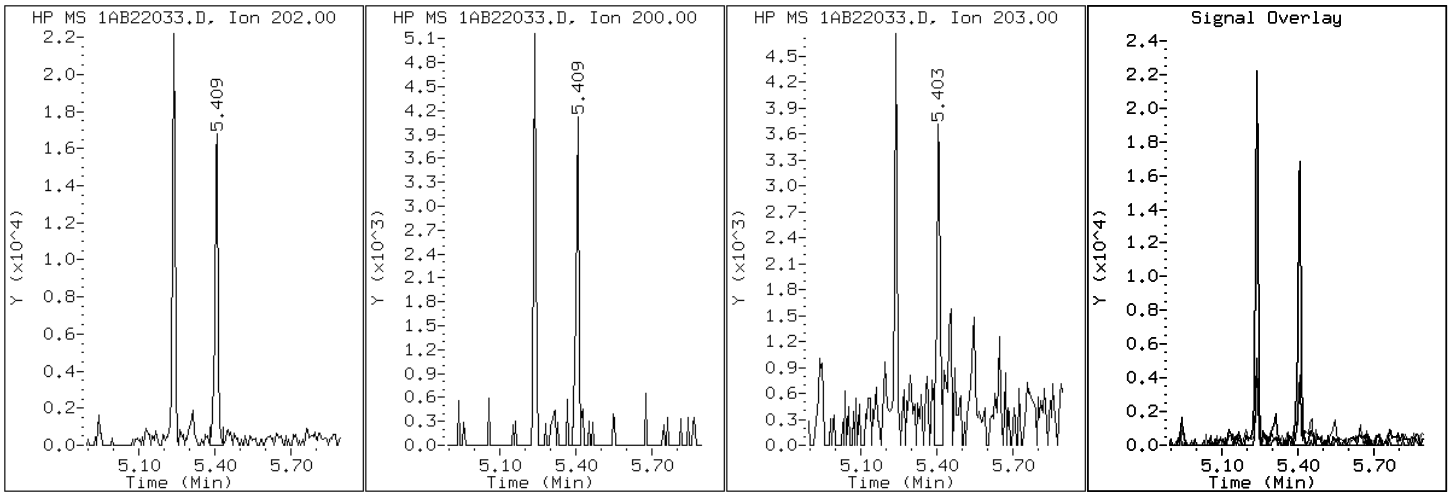
Data File: 1AB22033.D

Date: 22-FEB-2013 18:41

Client ID: FM0161AC-GS Instrument: BSMA5973.i

Sample Info: 680-87496-a-69-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22033.D
Inj. Date and Time: 22-FEB-2013 18:41
Instrument ID: BSMA5973.i
Client ID: FM0161AC-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

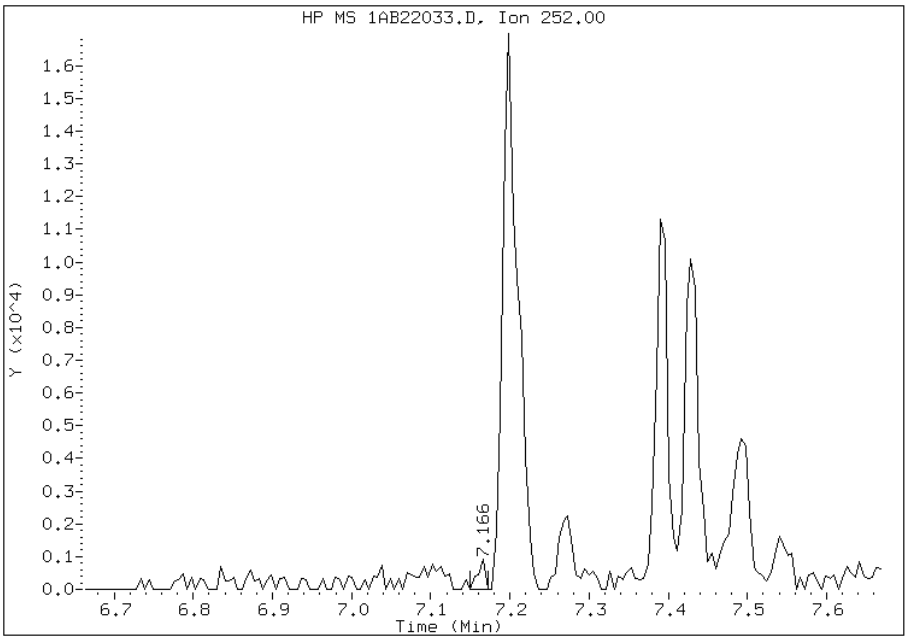
Processing Integration Results

RT: 7.17

Response: 560

Amount: 0

Conc: 1



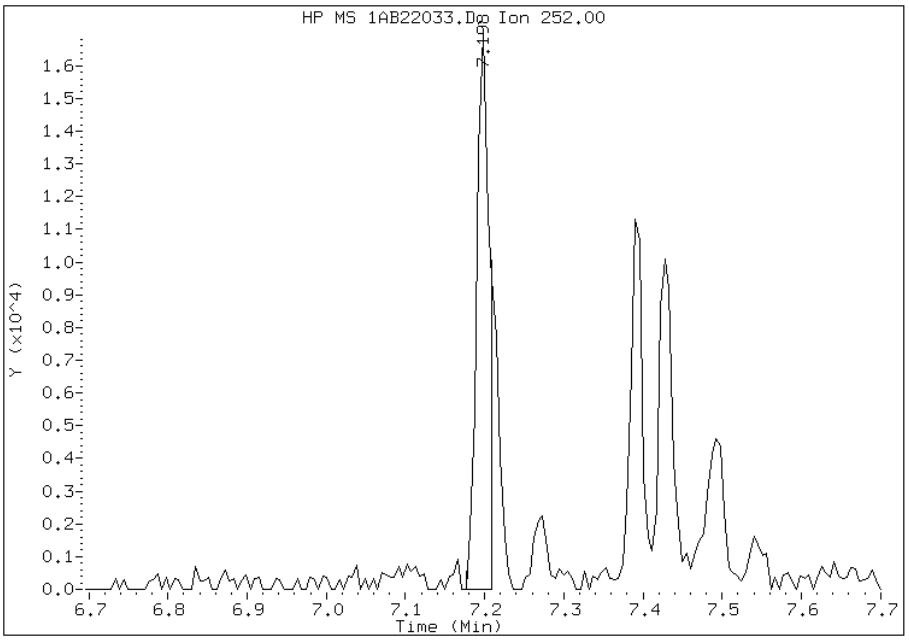
Manual Integration Results

RT: 7.20

Response: 18759

Amount: 1

Conc: 48



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:14
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22033.D
Inj. Date and Time: 22-FEB-2013 18:41
Instrument ID: BSMA5973.i
Client ID: FM0161AC-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

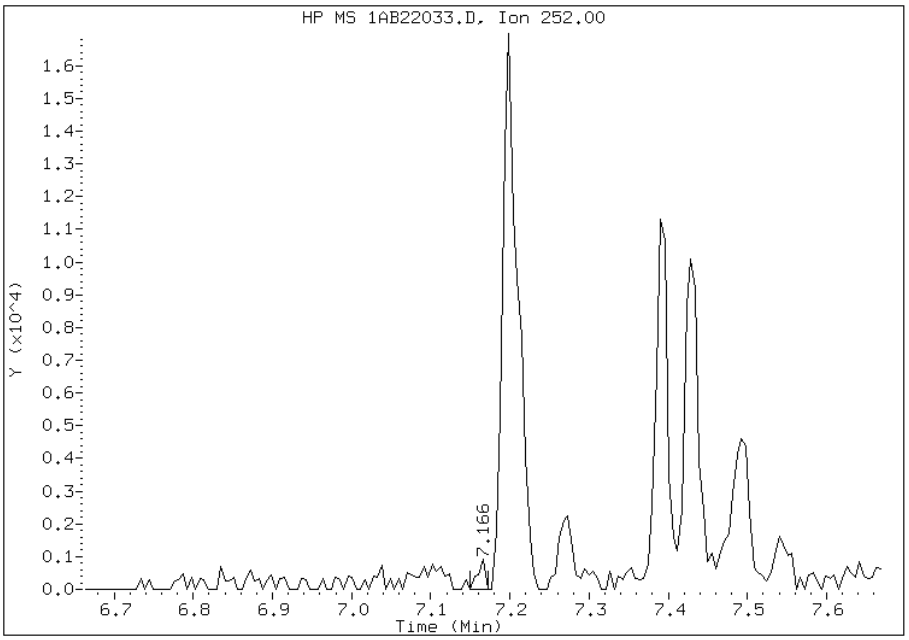
Processing Integration Results

RT: 7.17

Response: 560

Amount: 0

Conc: 1



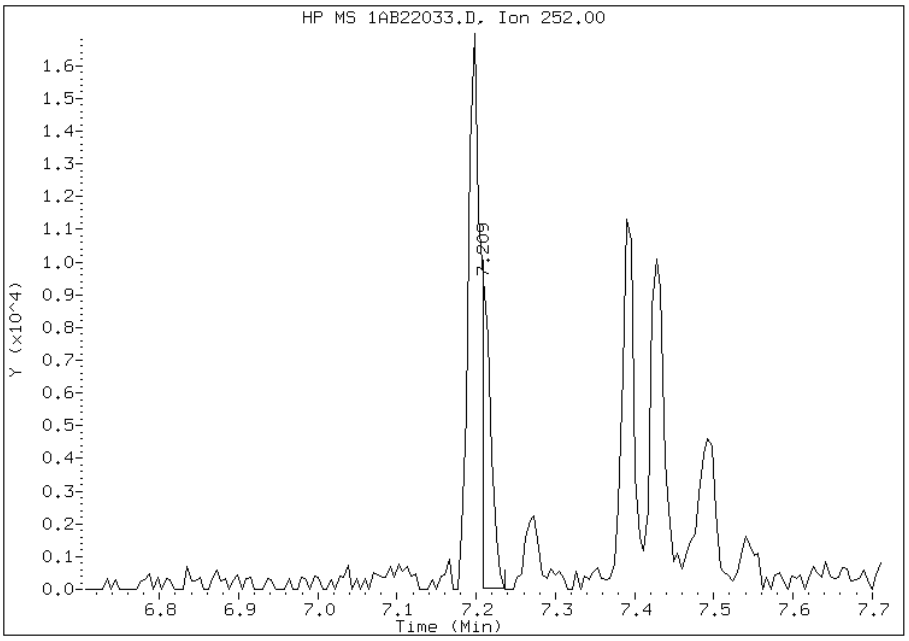
Manual Integration Results

RT: 7.21

Response: 7439

Amount: 0

Conc: 19



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22033.D
Inj. Date and Time: 22-FEB-2013 18:41
Instrument ID: BSMA5973.i
Client ID: FM0161AC-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

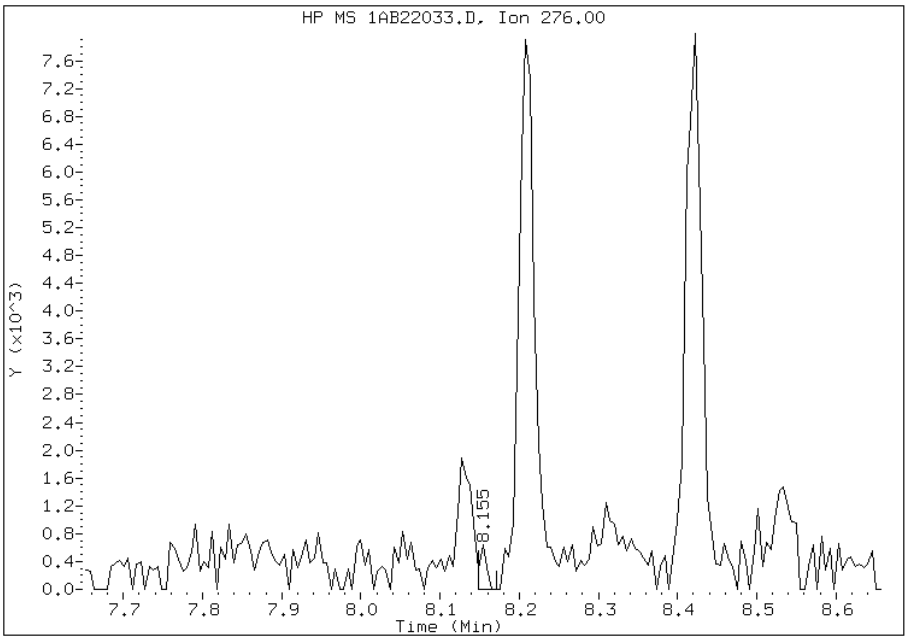
Processing Integration Results

RT: 8.15

Response: 399

Amount: 0

Conc: 1



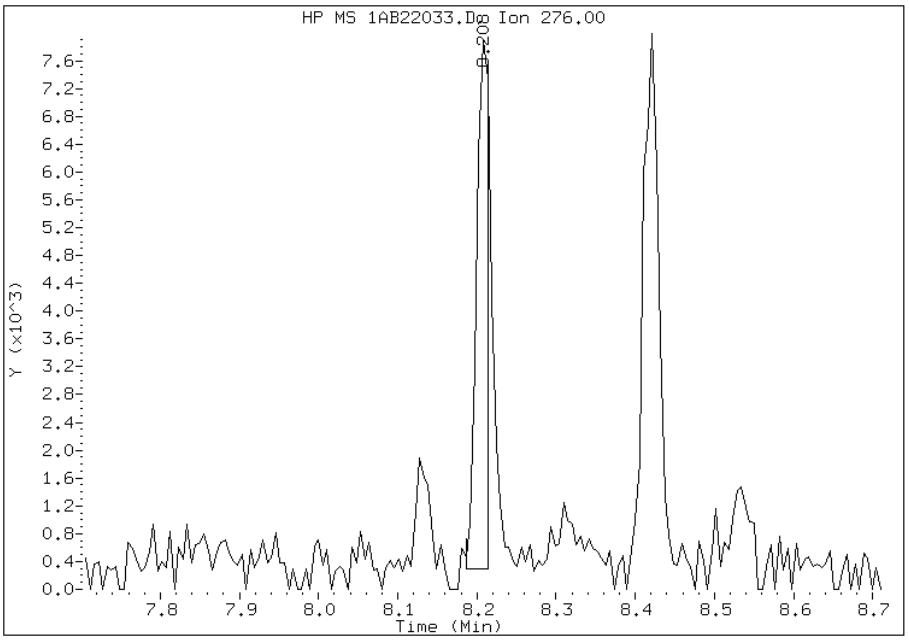
Manual Integration Results

RT: 8.21

Response: 7817

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: Unamed Tributary Bank-A | Lab Sample ID: 680-87496-70

Matrix: Solid | Lab File ID: 1AB22034.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:35

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.24(g) | Date Analyzed: 02/22/2013 18:55

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

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

% Moisture: 20.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	93		50	6.2
120-12-7	Anthracene	49		10	5.2
56-55-3	Benzo[a]anthracene	170		9.9	4.8
50-32-8	Benzo[a]pyrene	160		13	6.4
205-99-2	Benzo[b]fluoranthene	200		15	7.6
191-24-2	Benzo[g,h,i]perylene	140		25	5.5
207-08-9	Benzo[k]fluoranthene	100		9.9	4.5
218-01-9	Chrysene	160		11	5.6
53-70-3	Dibenz(a,h)anthracene	56		25	5.1
206-44-0	Fluoranthene	150		25	5.0
86-73-7	Fluorene	8.0	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	210		25	8.8
90-12-0	1-Methylnaphthalene	6.7	J	50	5.5
91-57-6	2-Methylnaphthalene	12	J	50	8.8
91-20-3	Naphthalene	13	J	50	5.5
85-01-8	Phenanthrene	41		9.9	4.8
129-00-0	Pyrene	200		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22034.D
Lab Smp Id: 680-87496-A-70-A Client Smp ID: Unamed Tributary Ba
Inj Date : 22-FEB-2013 18:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-70-a
Misc Info : 680-87496-A-70-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 34
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	15.240	Weight Extracted
M	20.577	% 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	2.399	2.397	(1.000)	960859	40.0000	
* 6 Acenaphthene-d10	164	3.425	3.417	(1.000)	730806	40.0000	
* 10 Phenanthrene-d10	188	4.365	4.352	(1.000)	1053995	40.0000	
$ 14 o-Terphenyl	230	4.643	4.635	(1.064)	97294	6.34385	524.1088
* 18 Chrysene-d12	240	6.395	6.366	(1.000)	851924	40.0000	
* 23 Perylene-d12	264	7.506	7.456	(1.000)	1402077	40.0000	(H)
2 Naphthalene	128	2.410	2.402	(1.004)	3615	0.15613	12.8993(Q)
3 2-Methylnaphthalene	141	2.811	2.808	(1.171)	1791	0.14984	12.3795(Q)
4 1-Methylnaphthalene	142	2.869	2.861	(1.196)	1078	0.08099	6.6913
5 Acenaphthylene	152	3.339	3.332	(0.975)	30569	1.12027	92.5529
9 Fluorene	166	3.756	3.743	(1.097)	1939	0.09744	8.0498(Q)
11 Phenanthrene	178	4.376	4.368	(1.002)	12854	0.49063	40.5345
12 Anthracene	178	4.413	4.400	(1.011)	15149	0.59529	49.1808
13 Carbazole	167	4.568	4.555	(1.046)	1862	0.08289	6.8477(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.241	5.228	(1.201)	48199	1.84000	152.0152
16 Pyrene	202	5.407	5.394	(0.845)	59443	2.37885	196.5329
17 Benzo(a)anthracene	228	6.384	6.355	(0.998)	52767	2.07435	171.3765
19 Chrysene	228	6.406	6.387	(1.002)	44251	1.94507	160.6951
20 Benzo(b)fluoranthene	252	7.212	7.178	(0.961)	85598	2.40832	198.9679(MH)
21 Benzo(k)fluoranthene	252	7.223	7.199	(0.962)	43444	1.21495	100.3748(MH)
22 Benzo(a)pyrene	252	7.448	7.408	(0.992)	63794	1.95991	161.9215(H)
24 Indeno(1,2,3-cd)pyrene	276	8.249	8.177	(1.099)	69999	2.50672	207.0968(MH)
25 Dibenzo(a,h)anthracene	278	8.249	8.193	(1.099)	19770	0.67939	56.1289(QH)
26 Benzo(g,h,i)perylene	276	8.447	8.385	(1.125)	52103	1.75426	144.9310(H)

QC Flag Legend

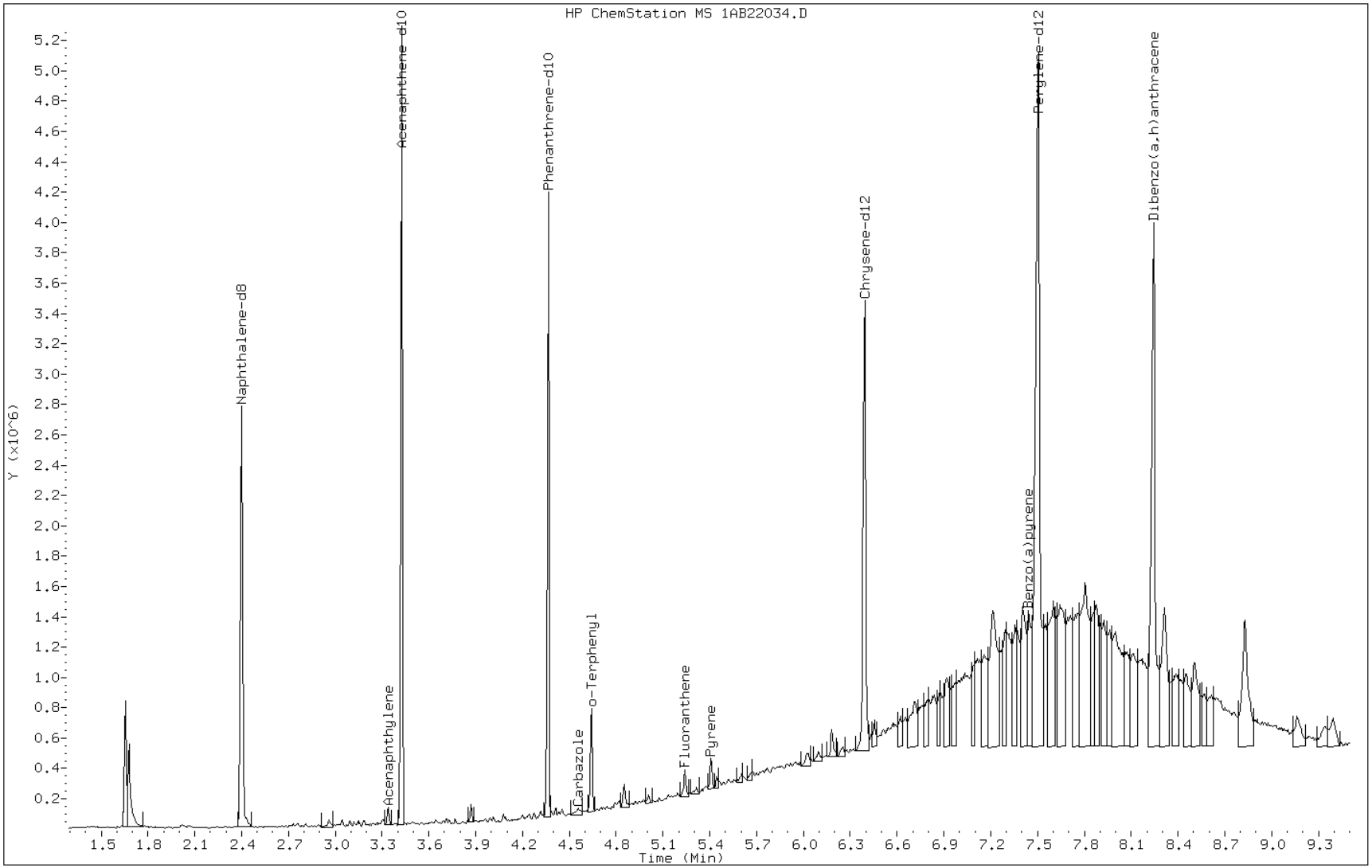
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC



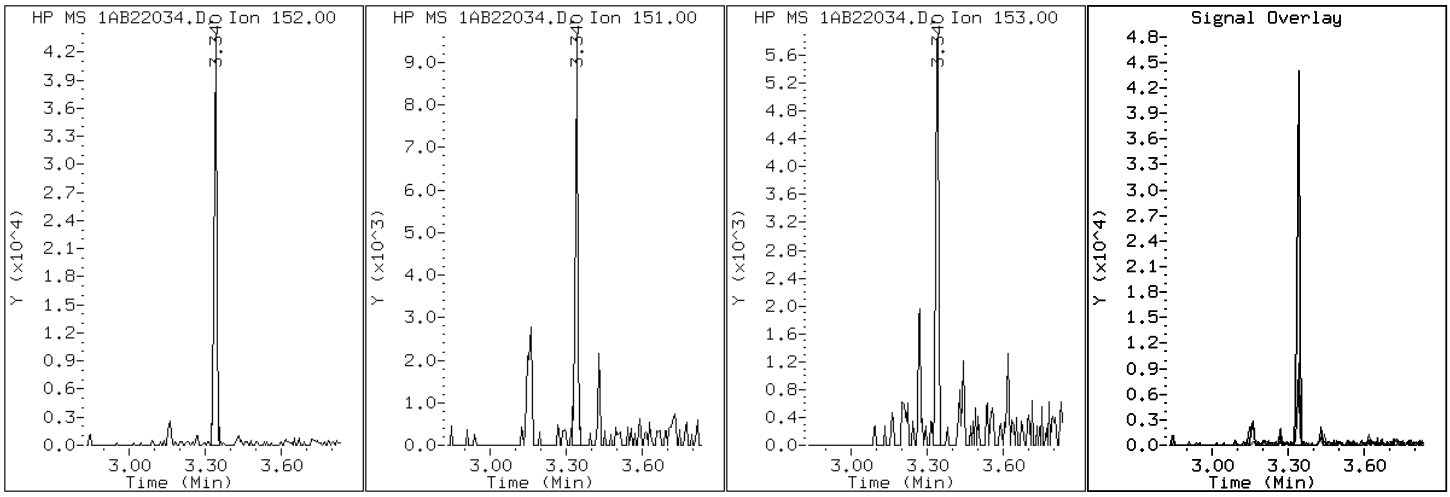
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

5 Acenaphthylene



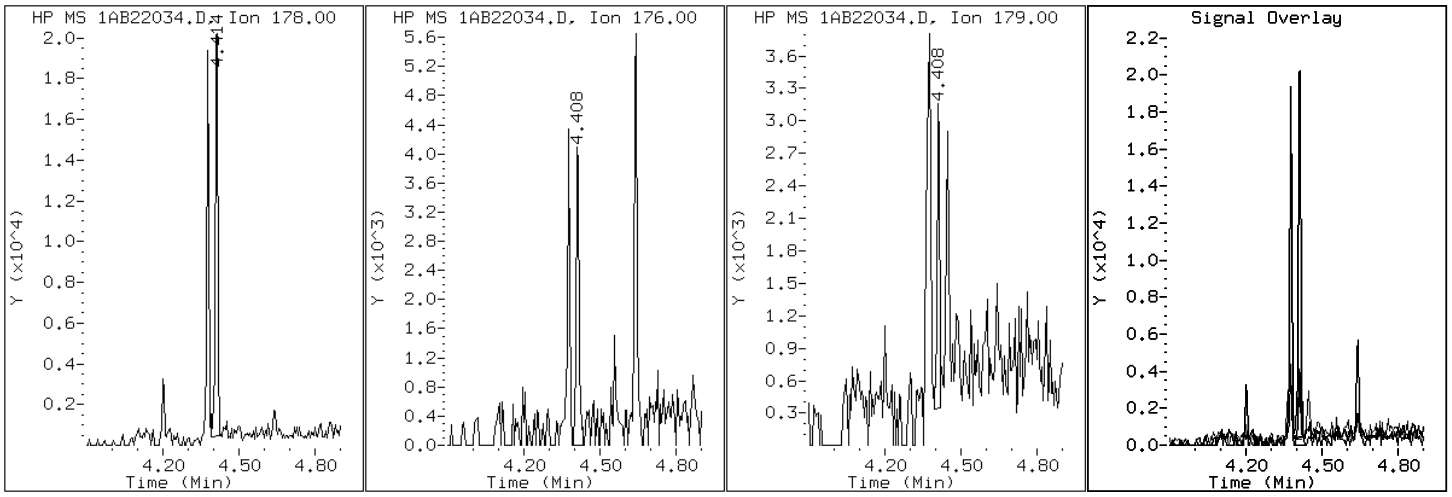
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

12 Anthracene



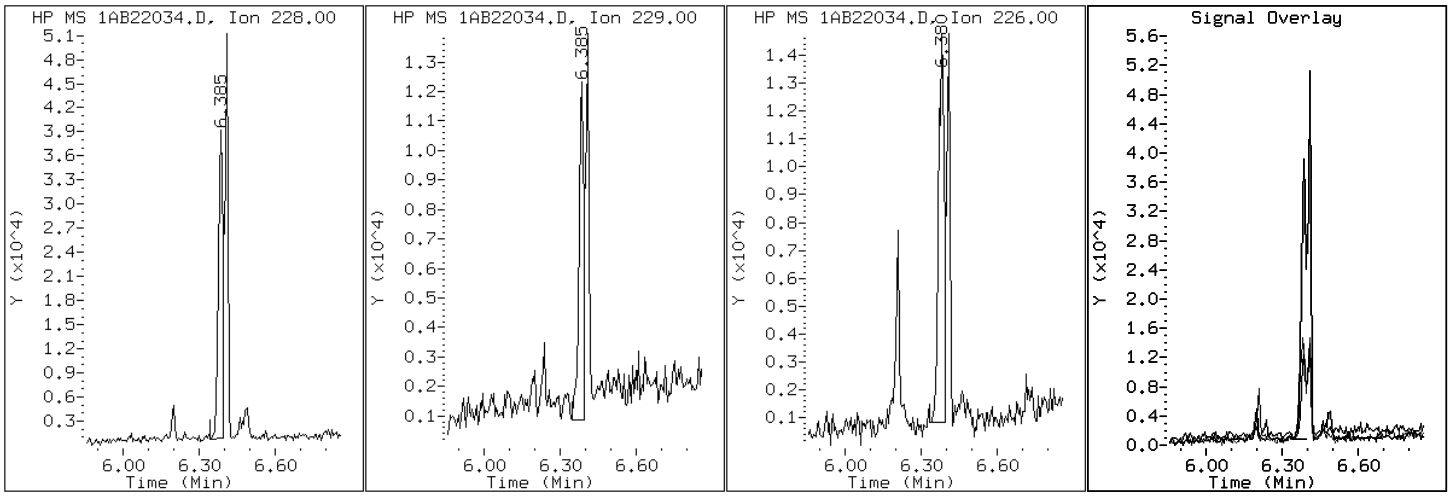
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

17 Benzo(a)anthracene



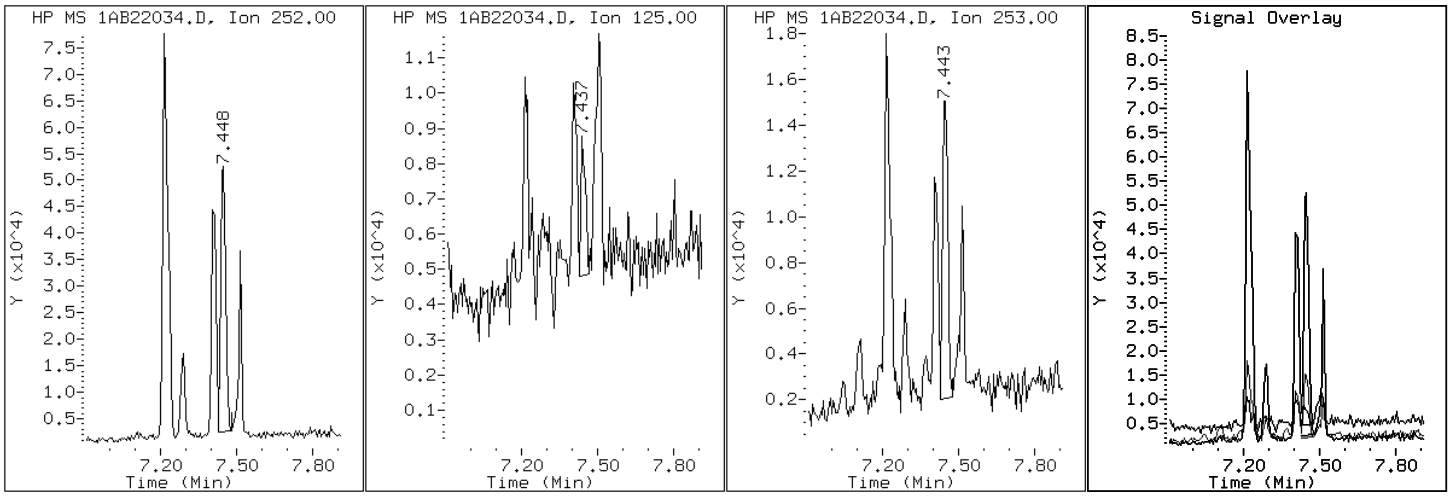
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

22 Benzo(a)pyrene



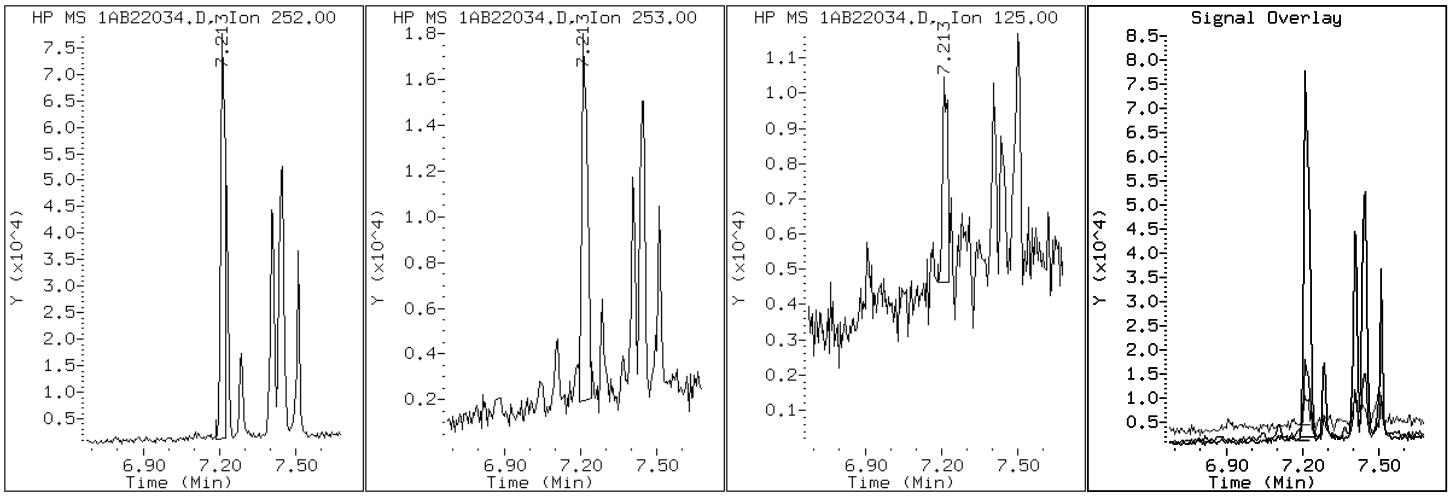
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

20 Benzo(b)fluoranthene



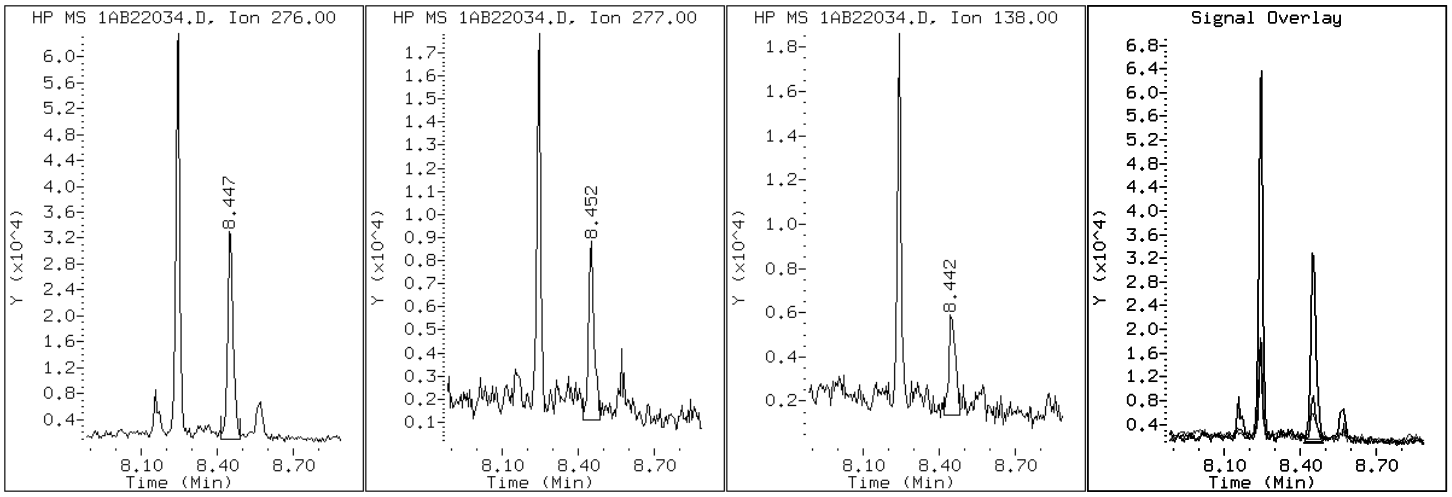
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

26 Benzo(g,h,i)perylene



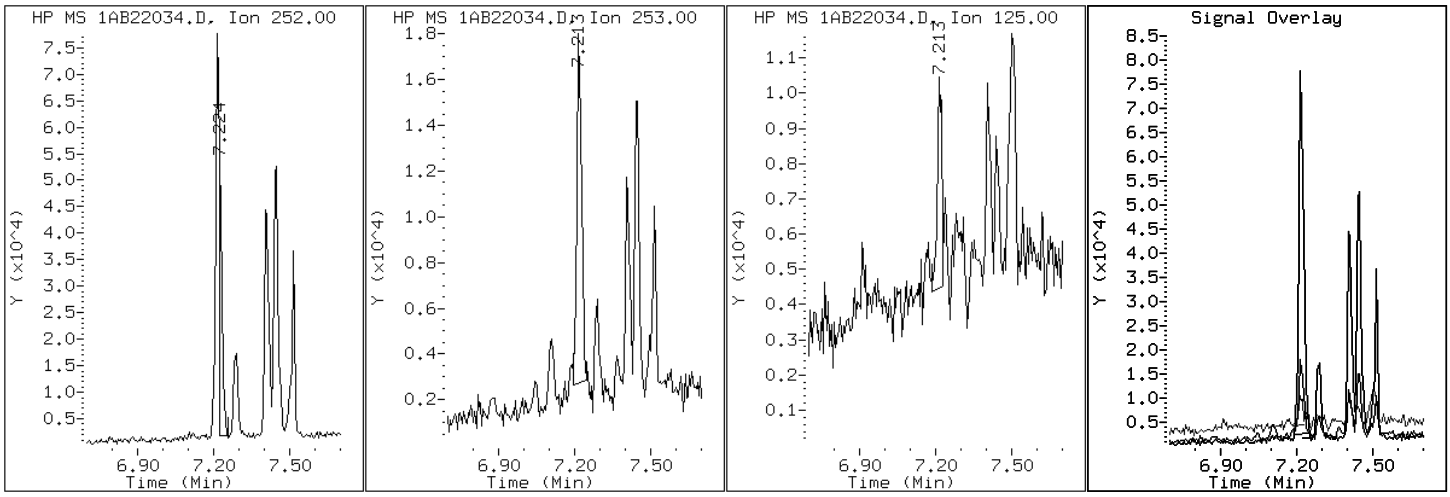
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

21 Benzo(k)fluoranthene



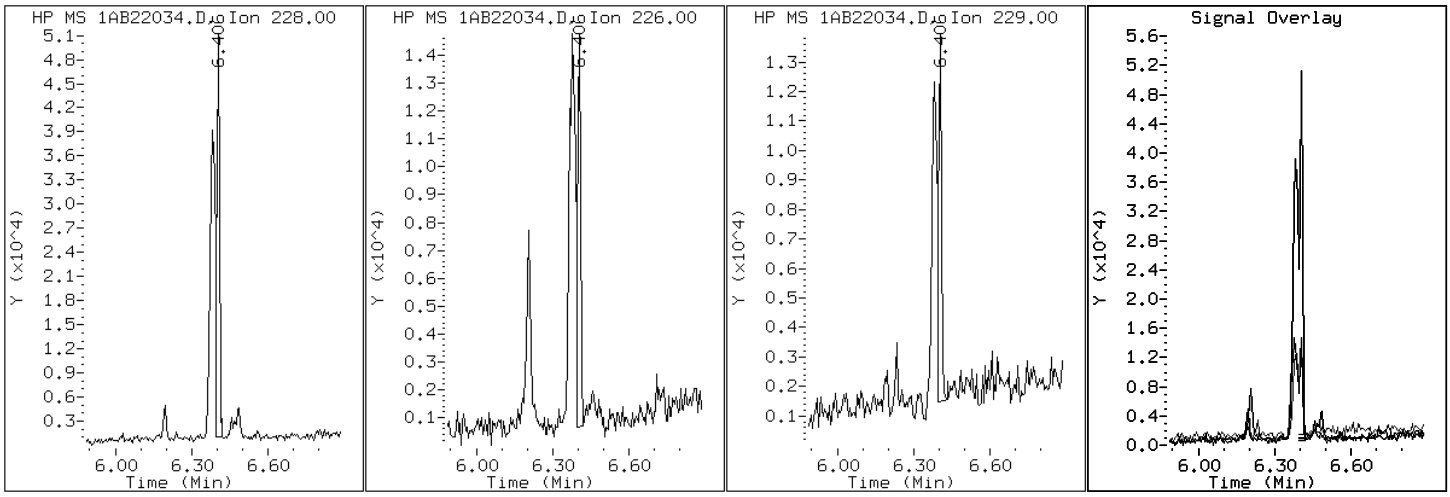
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

19 Chrysene



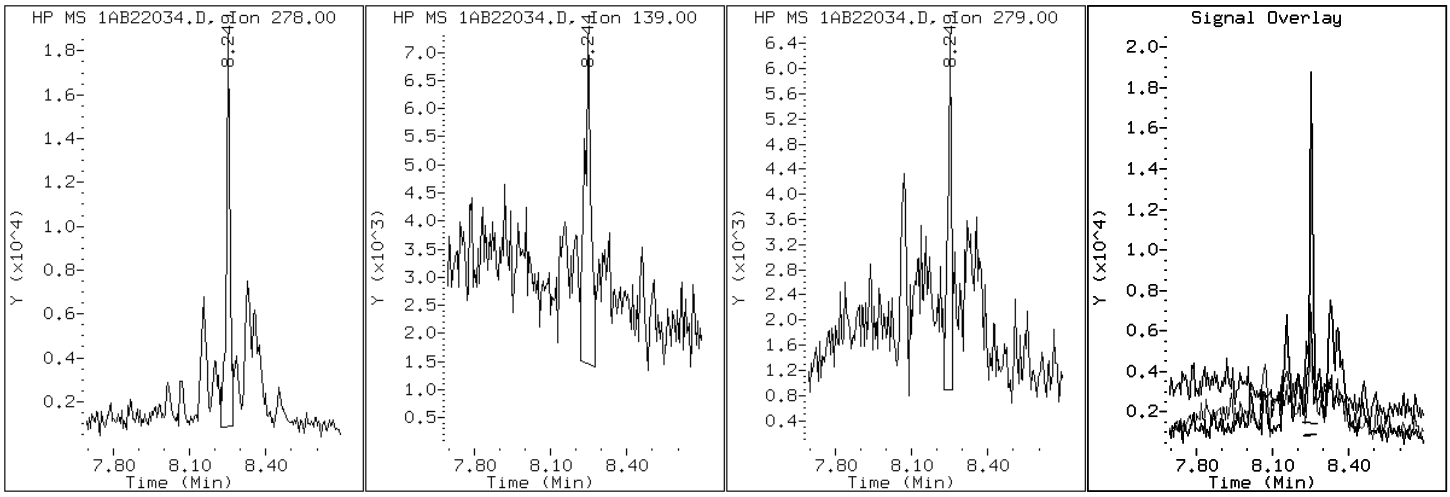
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

25 Dibenzo(a,h)anthracene



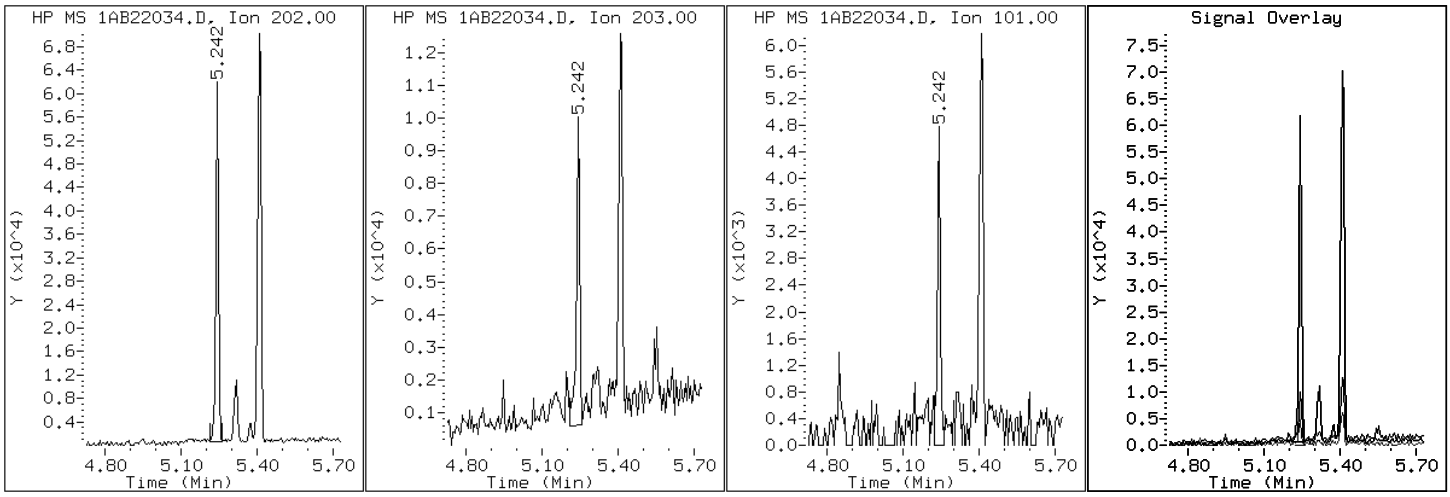
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

15 Fluoranthene



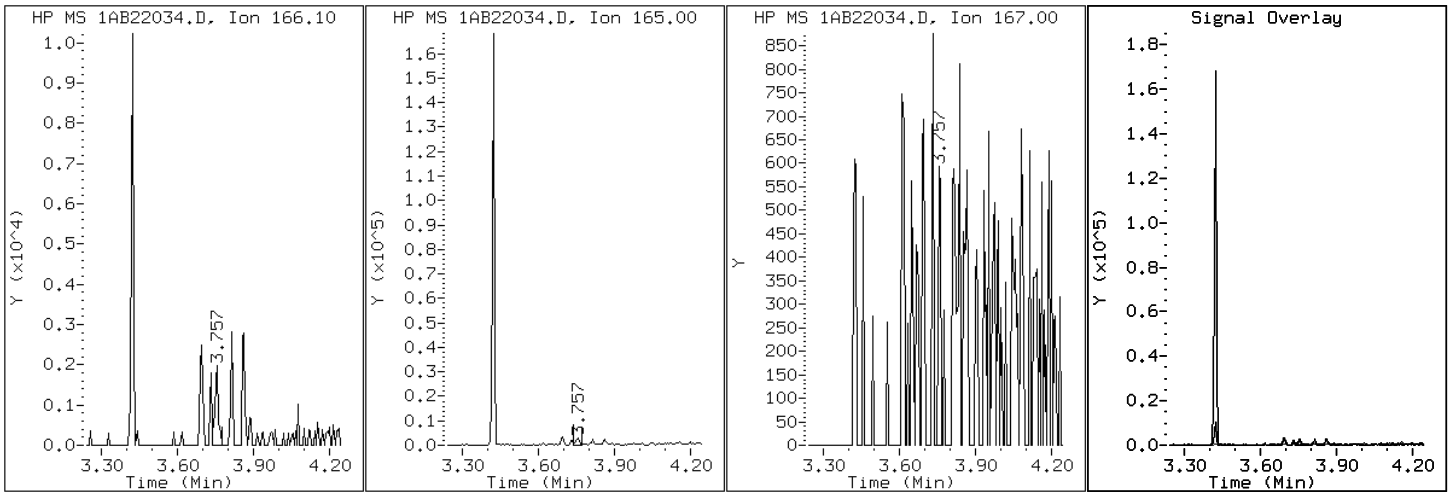
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

9 Fluorene



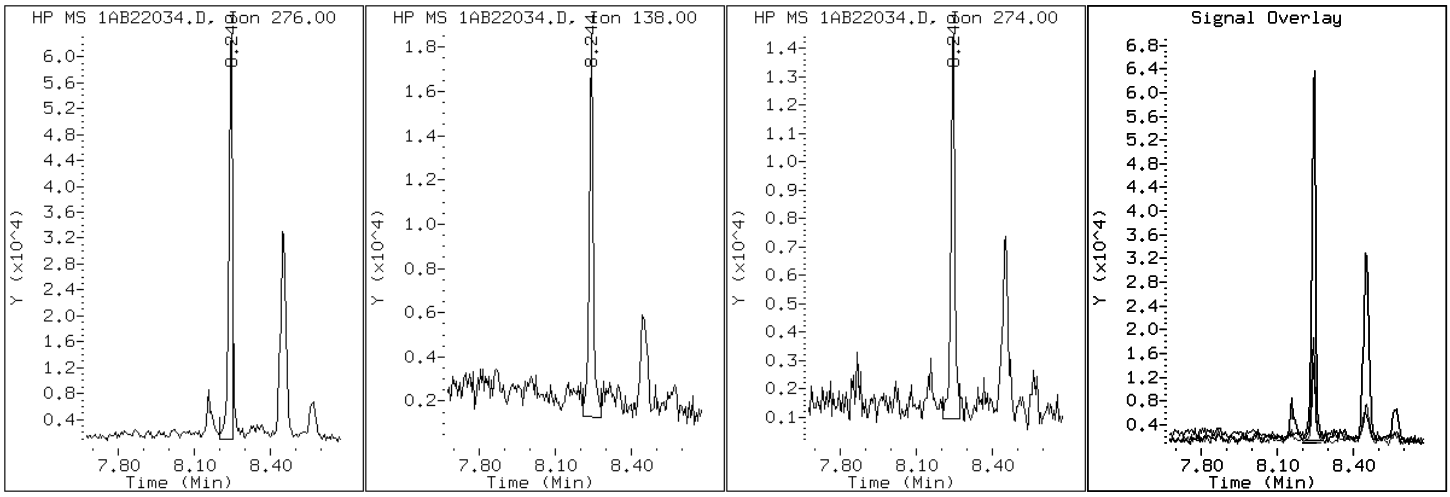
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

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



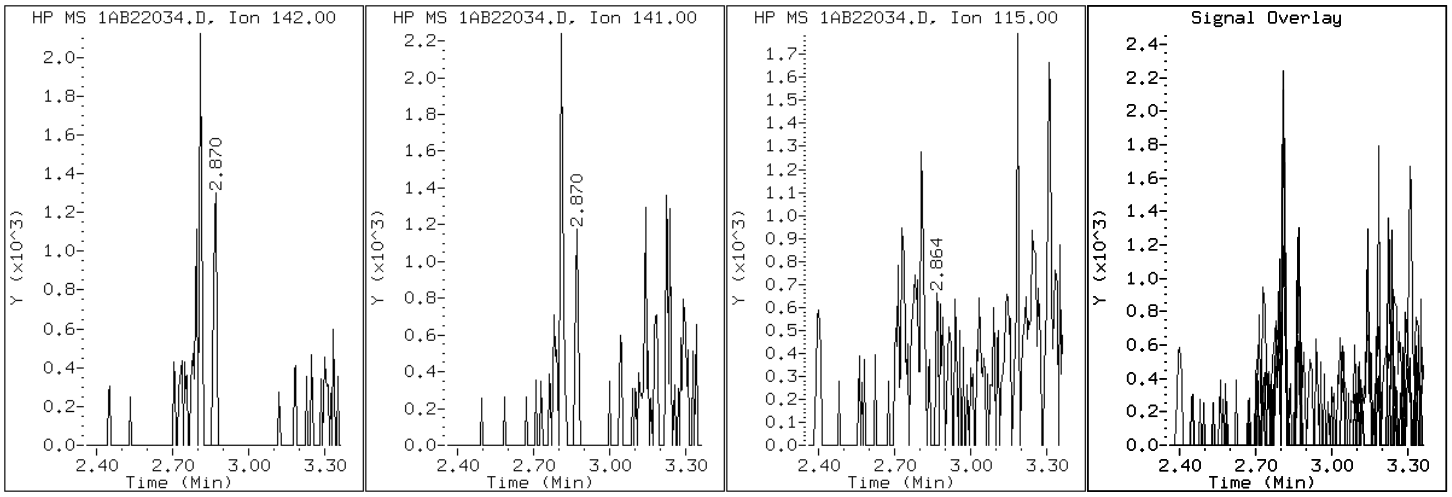
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

4 1-Methylnaphthalene



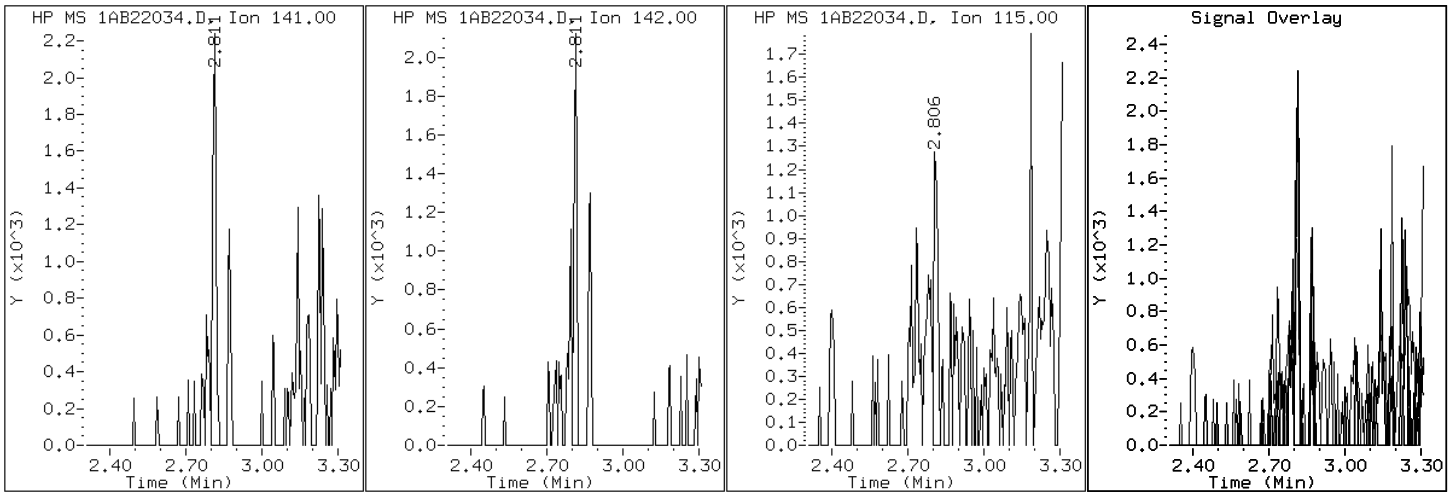
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

3 2-Methylnaphthalene



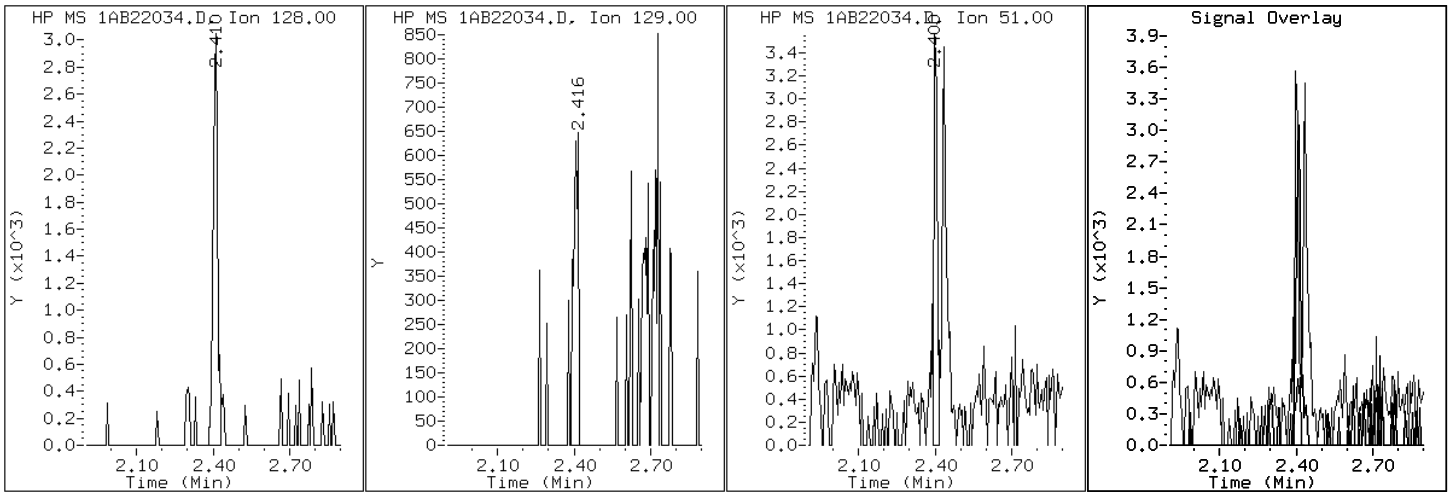
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

2 Naphthalene



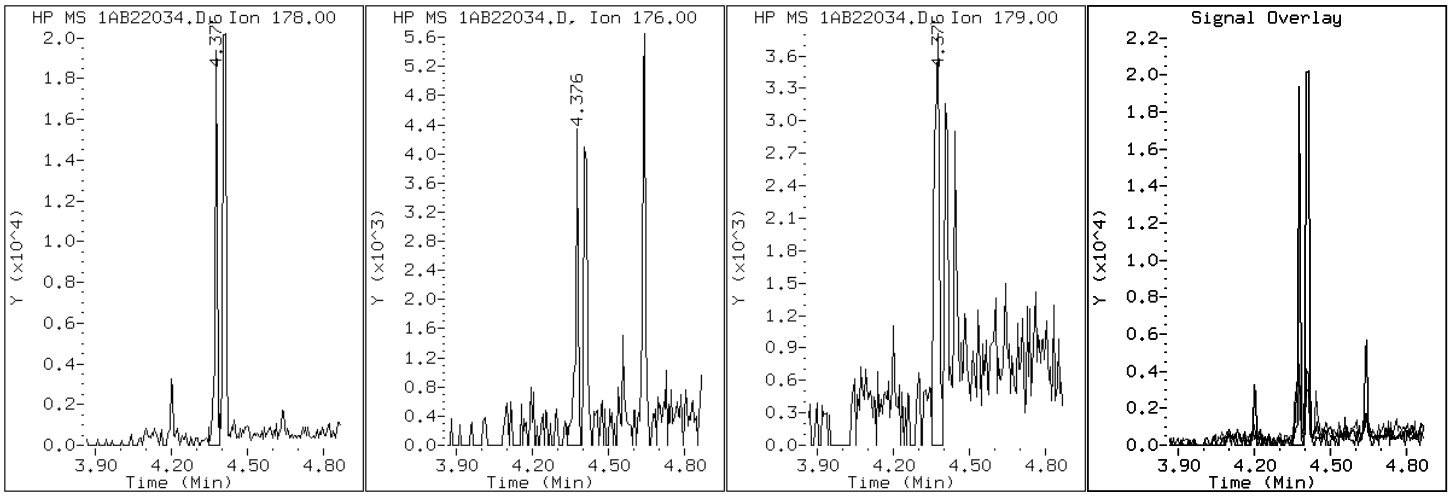
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

11 Phenanthrene



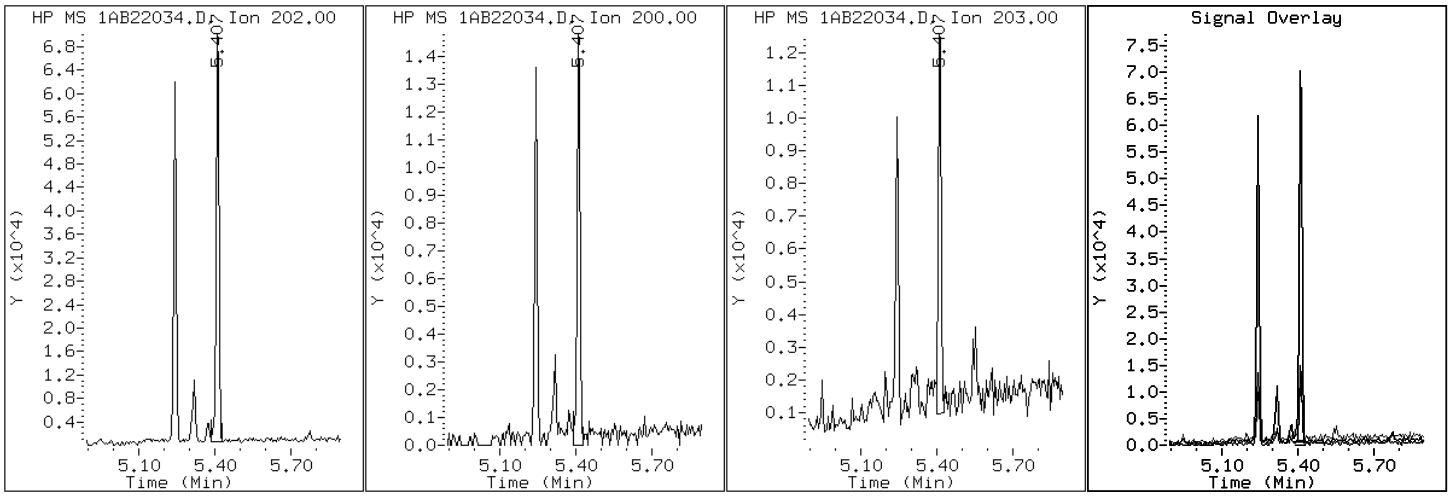
Data File: 1AB22034.D

Date: 22-FEB-2013 18:55

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-70-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22034.D
Inj. Date and Time: 22-FEB-2013 18:55
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Ba
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

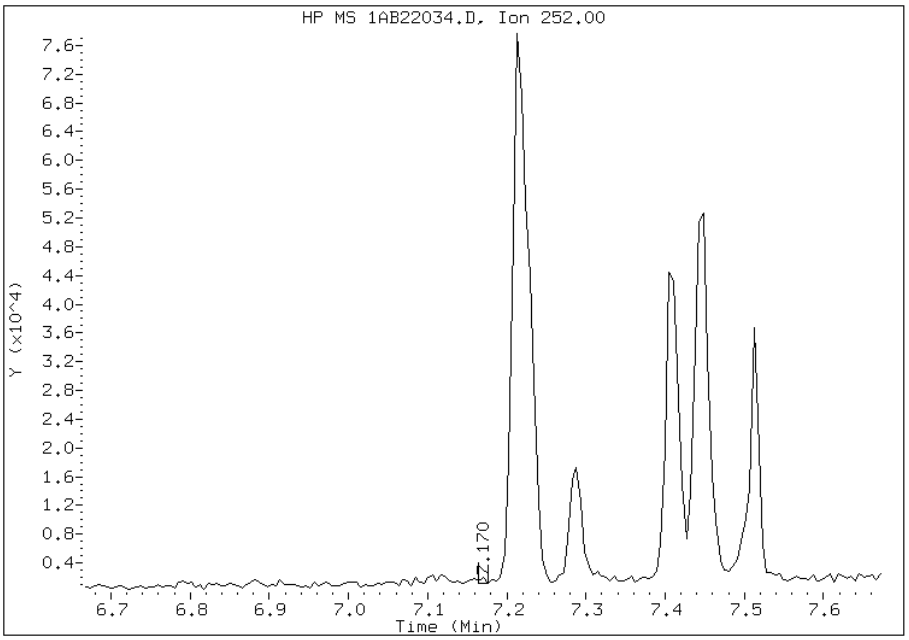
Processing Integration Results

RT: 7.17

Response: 368

Amount: 0

Conc: 1



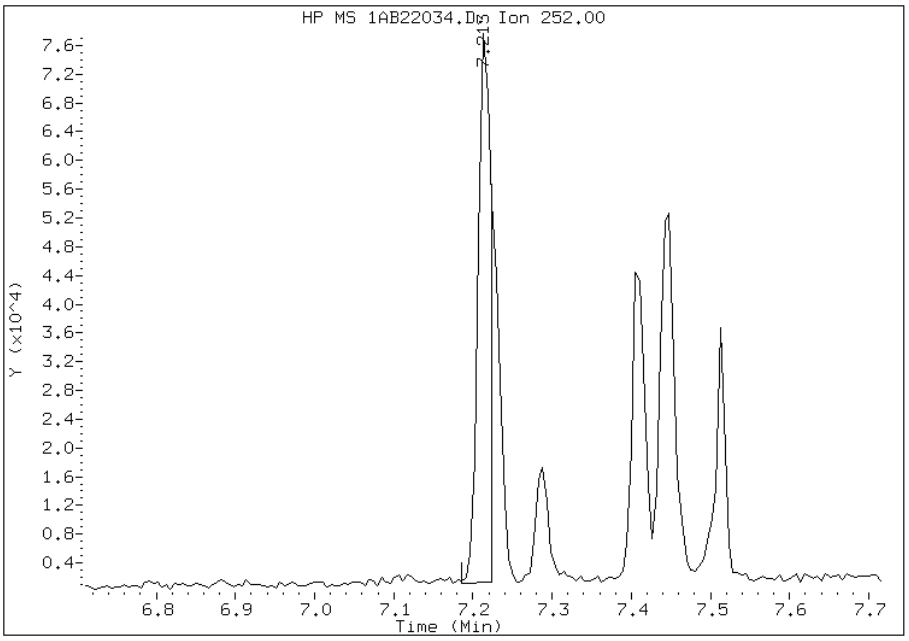
Manual Integration Results

RT: 7.21

Response: 85598

Amount: 2

Conc: 199



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22034.D
Inj. Date and Time: 22-FEB-2013 18:55
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Ba
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

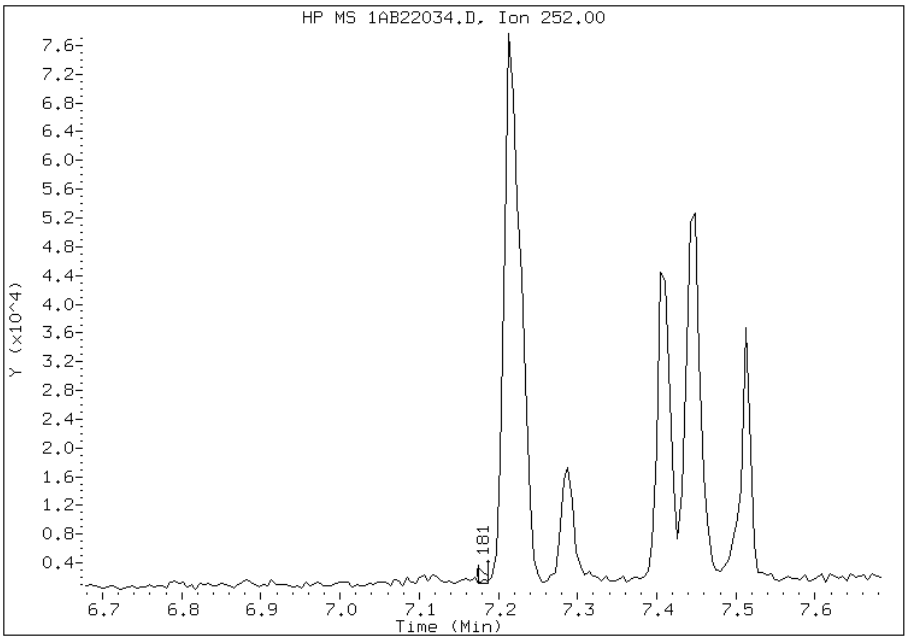
Processing Integration Results

RT: 7.18

Response: 208

Amount: 0

Conc: 0



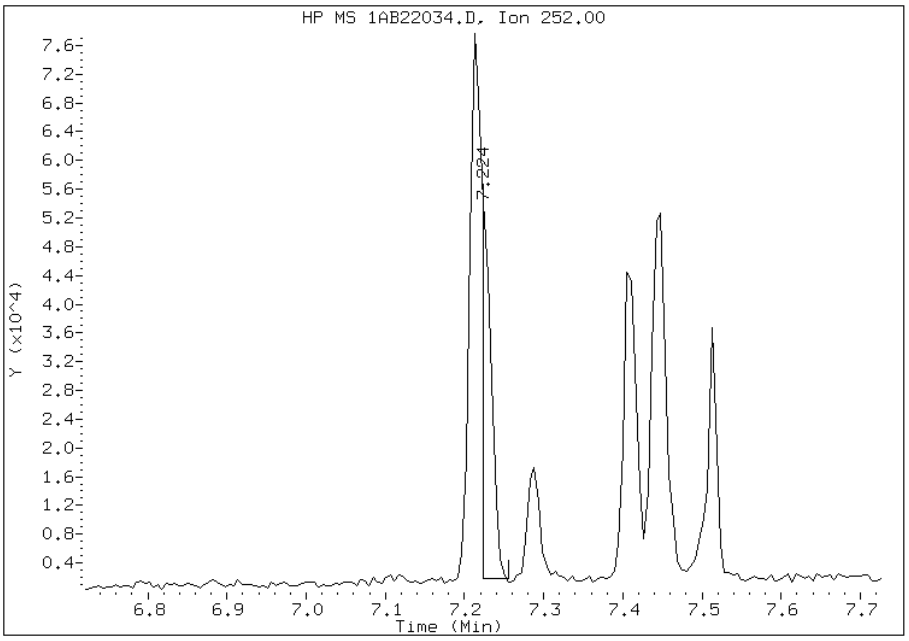
Manual Integration Results

RT: 7.22

Response: 43444

Amount: 1

Conc: 100



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22034.D
Inj. Date and Time: 22-FEB-2013 18:55
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Ba
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

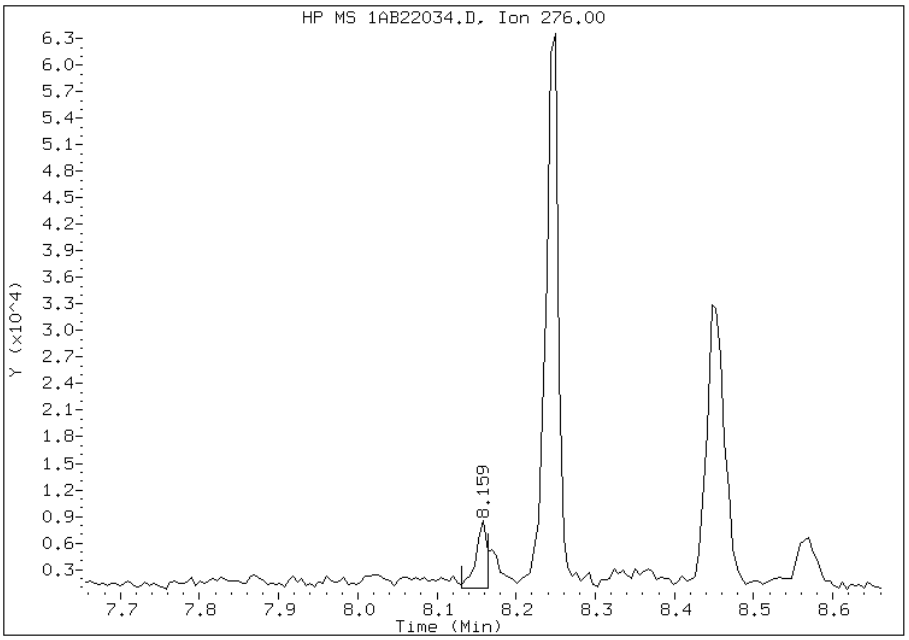
Processing Integration Results

RT: 8.16

Response: 7218

Amount: 0

Conc: 21



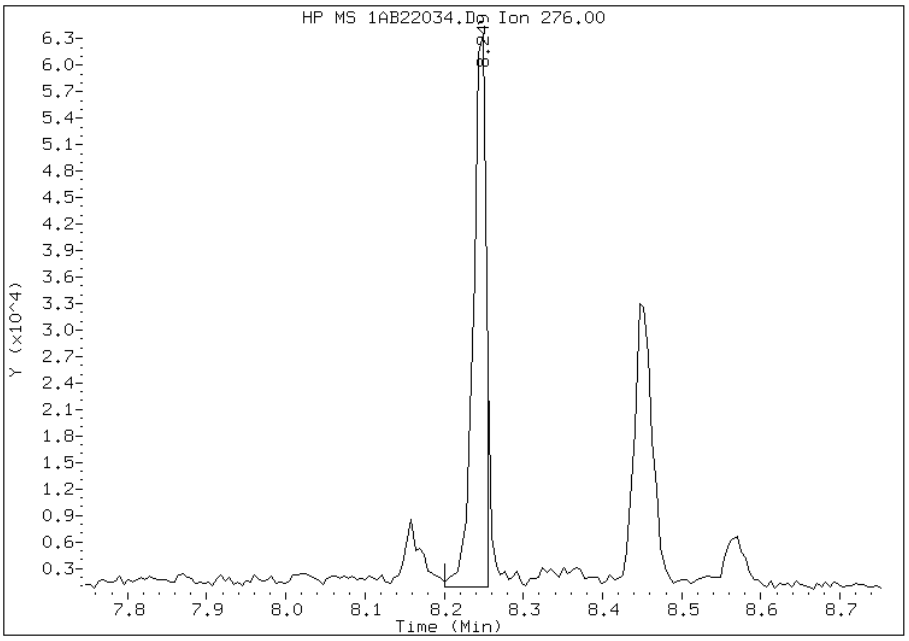
Manual Integration Results

RT: 8.25

Response: 69999

Amount: 3

Conc: 207



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: Unamed Tributary Grab-A | Lab Sample ID: 680-87496-71

Matrix: Solid | Lab File ID: 1AB22035.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 13:40

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.38(g) | Date Analyzed: 02/22/2013 19:11

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

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

% Moisture: 31.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	36	J	57	7.1
120-12-7	Anthracene	53		12	6.0
56-55-3	Benzo[a]anthracene	200		11	5.6
50-32-8	Benzo[a]pyrene	180		15	7.4
205-99-2	Benzo[b]fluoranthene	240		17	8.7
191-24-2	Benzo[g,h,i]perylene	150		28	6.3
207-08-9	Benzo[k]fluoranthene	86		11	5.1
218-01-9	Chrysene	210		13	6.4
53-70-3	Dibenz(a,h)anthracene	45		28	5.8
206-44-0	Fluoranthene	250		28	5.7
86-73-7	Fluorene	15	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	140		28	10
90-12-0	1-Methylnaphthalene	50	J	57	6.3
91-57-6	2-Methylnaphthalene	63		57	10
91-20-3	Naphthalene	88		57	6.3
85-01-8	Phenanthrene	170		11	5.6
129-00-0	Pyrene	260		28	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22035.D
Lab Smp Id: 680-87496-A-71-A Client Smp ID: Unamed Tributary Gr
Inj Date : 22-FEB-2013 19:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-71-a
Misc Info : 680-87496-A-71-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 35
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	15.380	Weight Extracted
M	31.553	% 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	2.399	2.397	(1.000)	1063578	40.0000	
* 6 Acenaphthene-d10	164	3.430	3.417	(1.000)	887514	40.0000	
* 10 Phenanthrene-d10	188	4.370	4.352	(1.000)	1129944	40.0000	
$ 14 o-Terphenyl	230	4.643	4.635	(1.062)	97121	5.90693	561.1107
* 18 Chrysene-d12	240	6.395	6.366	(1.000)	775110	40.0000	
* 23 Perylene-d12	264	7.496	7.456	(1.000)	1155323	40.0000	
2 Naphthalene	128	2.410	2.402	(1.004)	23779	0.92784	88.1376
3 2-Methylnaphthalene	141	2.816	2.808	(1.174)	8749	0.66129	62.8169
4 1-Methylnaphthalene	142	2.869	2.861	(1.196)	7722	0.52414	49.7888
5 Acenaphthylene	152	3.339	3.332	(0.974)	12610	0.38052	36.1467
9 Fluorene	166	3.751	3.743	(1.093)	3846	0.15914	15.1169
11 Phenanthrene	178	4.381	4.368	(1.002)	48938	1.74240	165.5136
12 Anthracene	178	4.419	4.400	(1.011)	15300	0.56081	53.2725
13 Carbazole	167	4.573	4.555	(1.046)	8275	0.34360	32.6390

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.247	5.228	(1.200)	74451	2.65114	251.8369
16 Pyrene	202	5.412	5.394	(0.846)	61982	2.72627	258.9740
17 Benzo(a)anthracene	228	6.390	6.355	(0.999)	47710	2.06143	195.8187
19 Chrysene	228	6.406	6.387	(1.002)	46418	2.24251	213.0207
20 Benzo(b)fluoranthene	252	7.207	7.178	(0.962)	75507	2.57814	244.9026(M)
21 Benzo(k)fluoranthene	252	7.218	7.199	(0.963)	26609	0.90308	85.7848(QM)
22 Benzo(a)pyrene	252	7.437	7.408	(0.992)	49950	1.86235	176.9077
24 Indeno(1,2,3-cd)pyrene	276	8.217	8.177	(1.096)	34255	1.48870	141.4139(M)
25 Dibenzo(a,h)anthracene	278	8.222	8.193	(1.097)	11467	0.47822	45.4272
26 Benzo(g,h,i)perylene	276	8.425	8.385	(1.124)	39801	1.62627	154.4825

QC Flag Legend

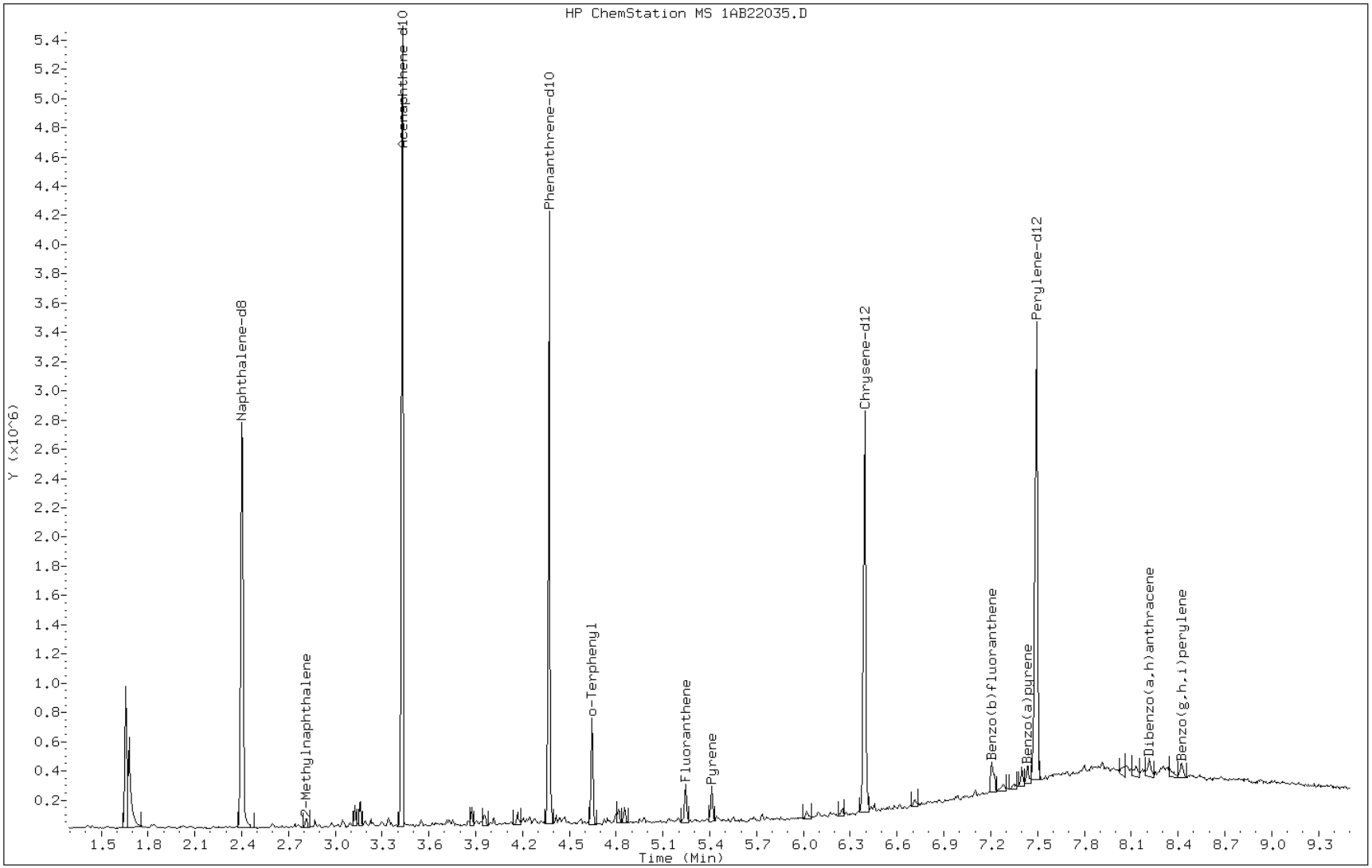
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC



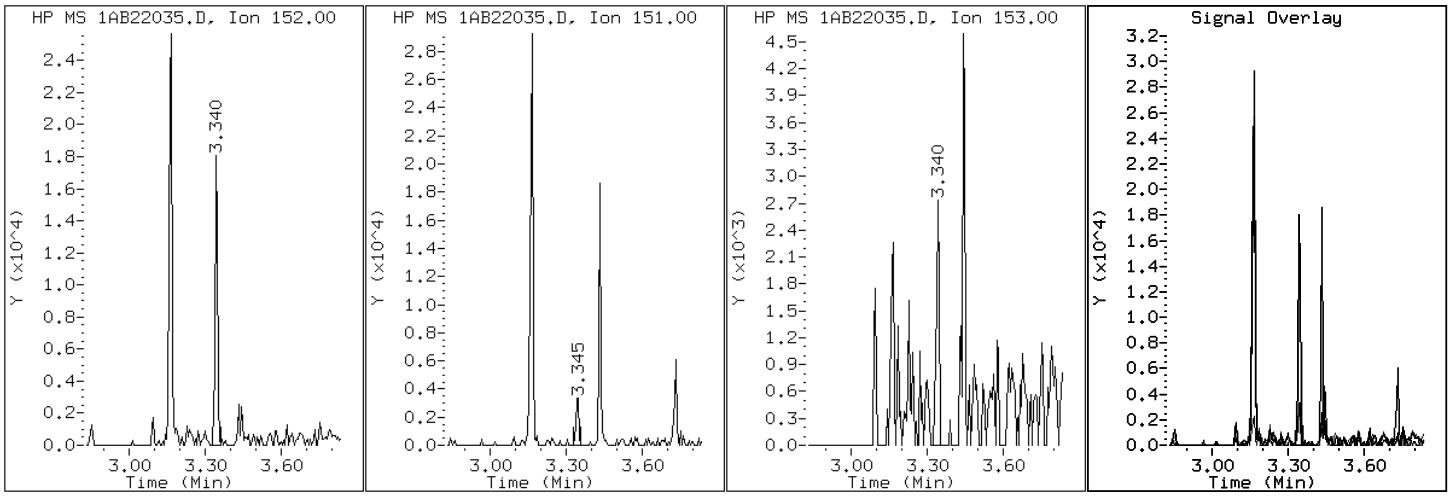
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

5 Acenaphthylene



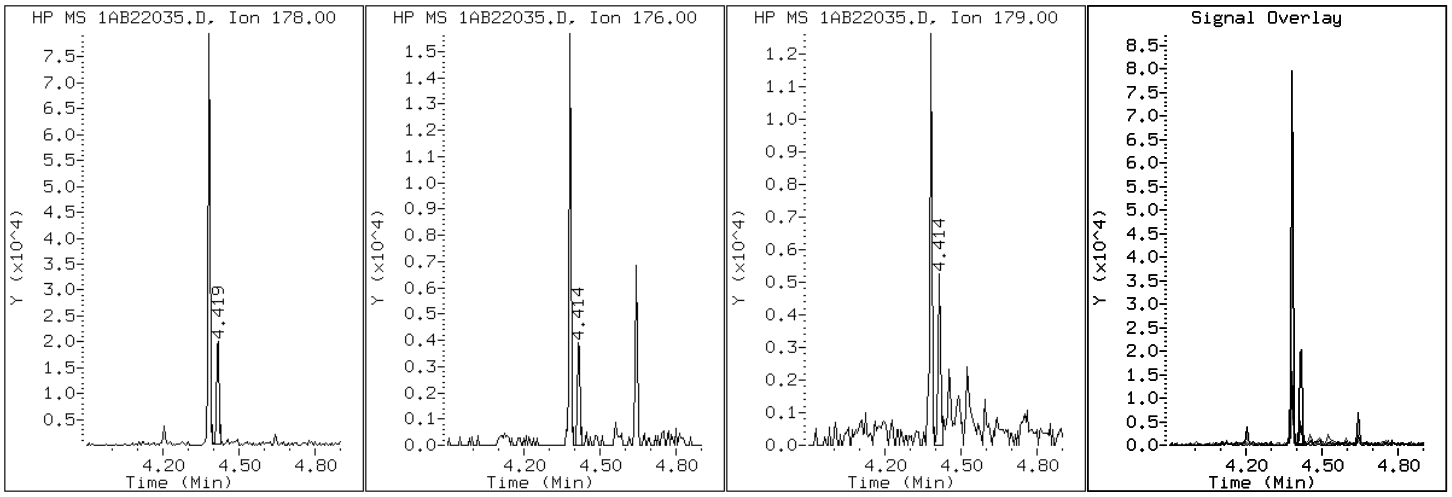
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

12 Anthracene



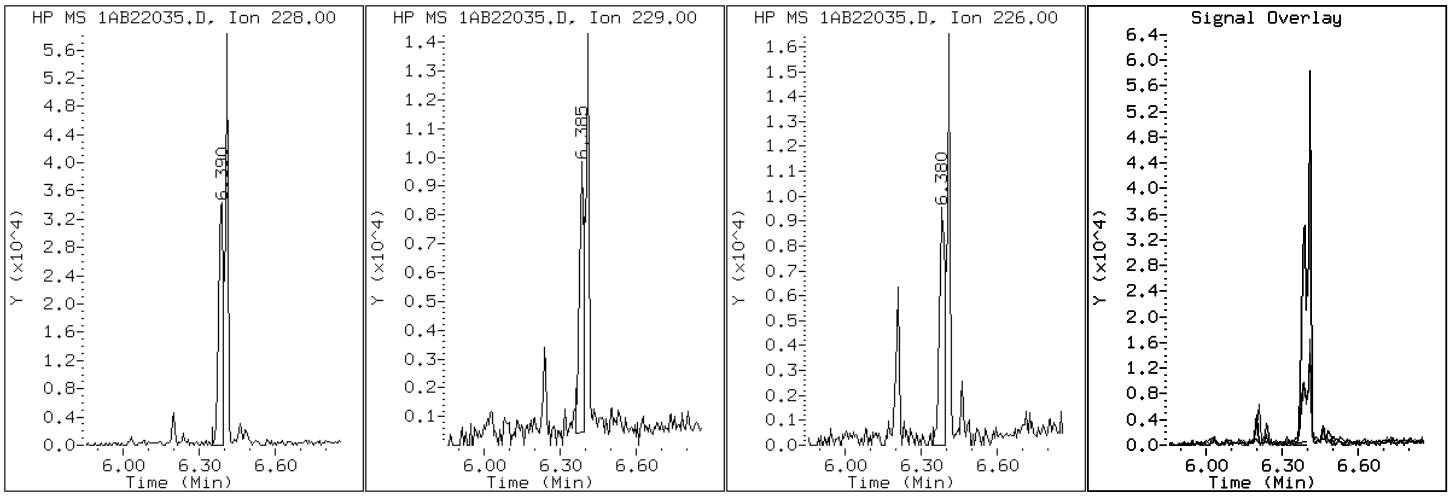
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

17 Benzo(a)anthracene



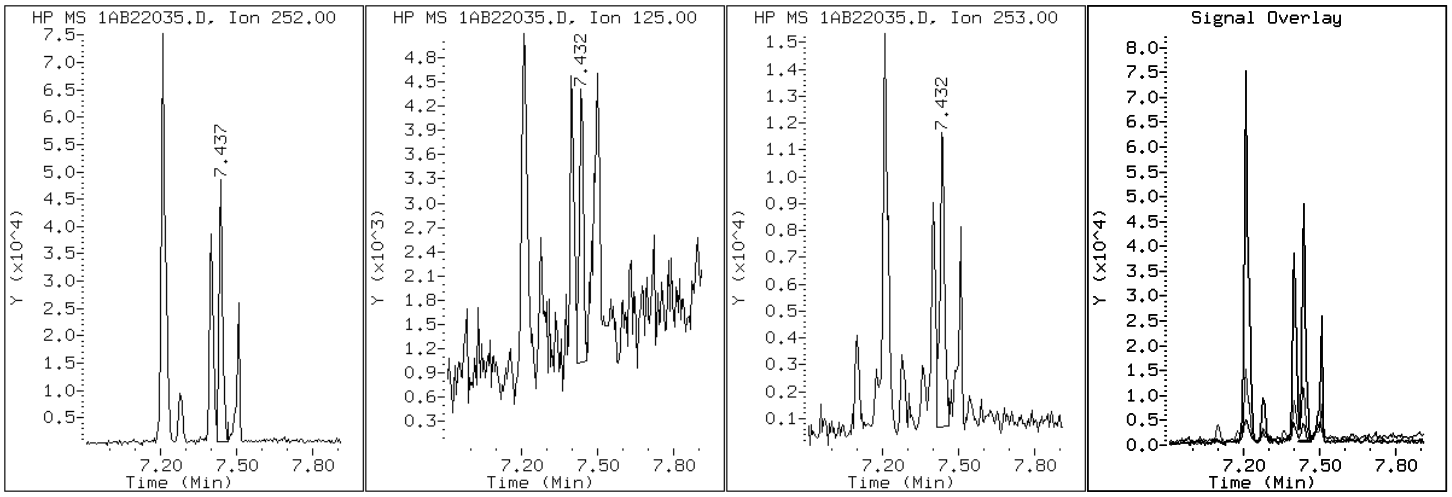
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

22 Benzo(a)pyrene



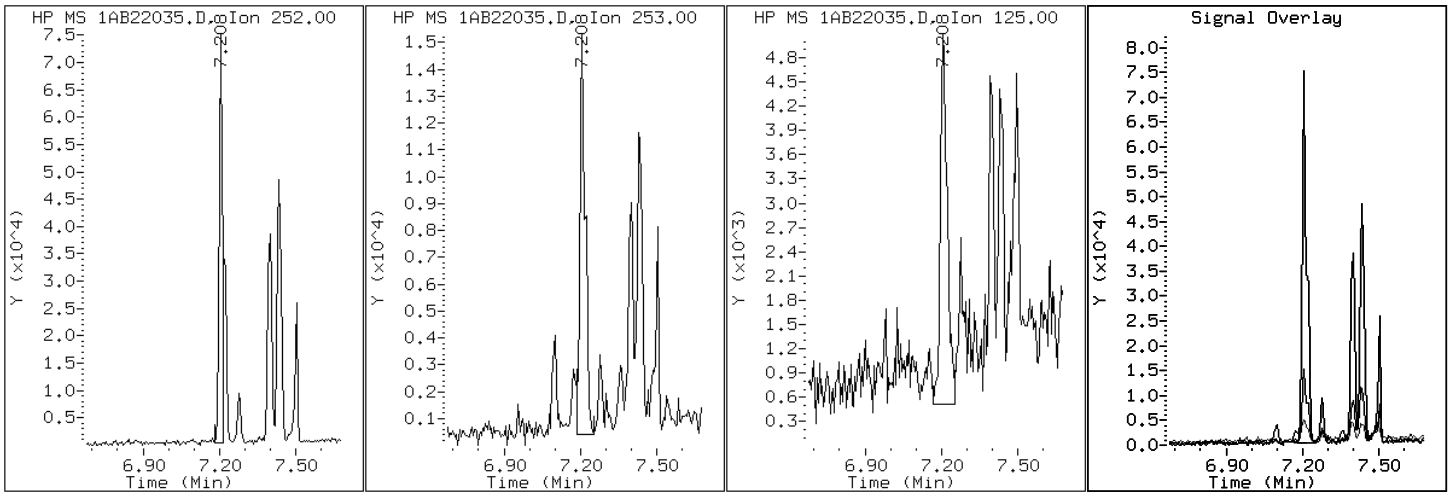
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

20 Benzo(b)fluoranthene



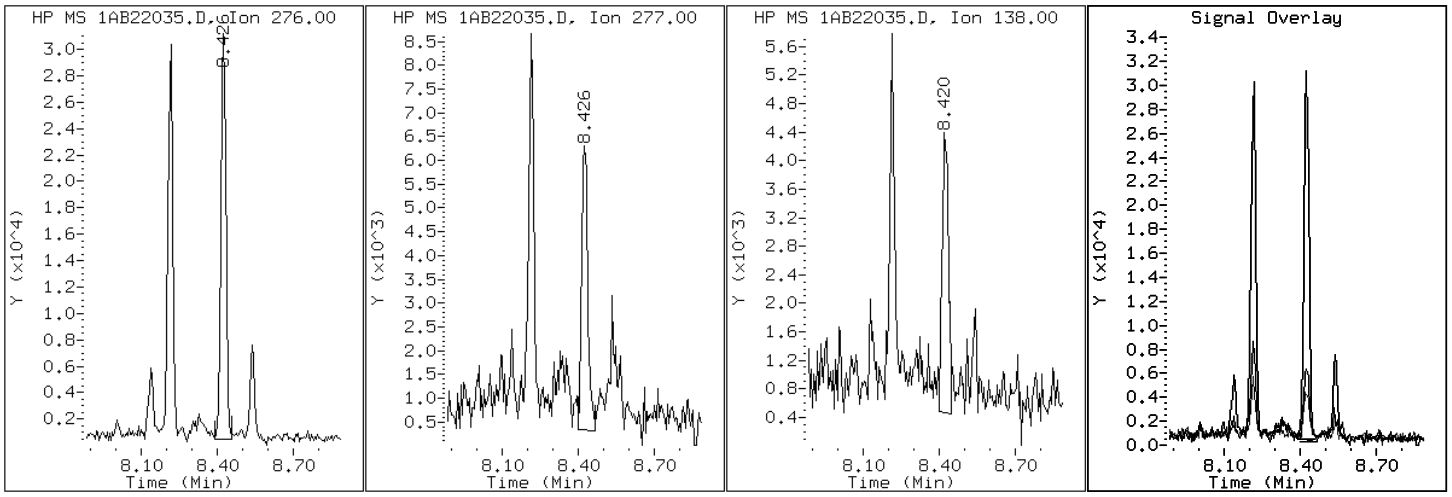
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

26 Benzo(g,h,i)perylene



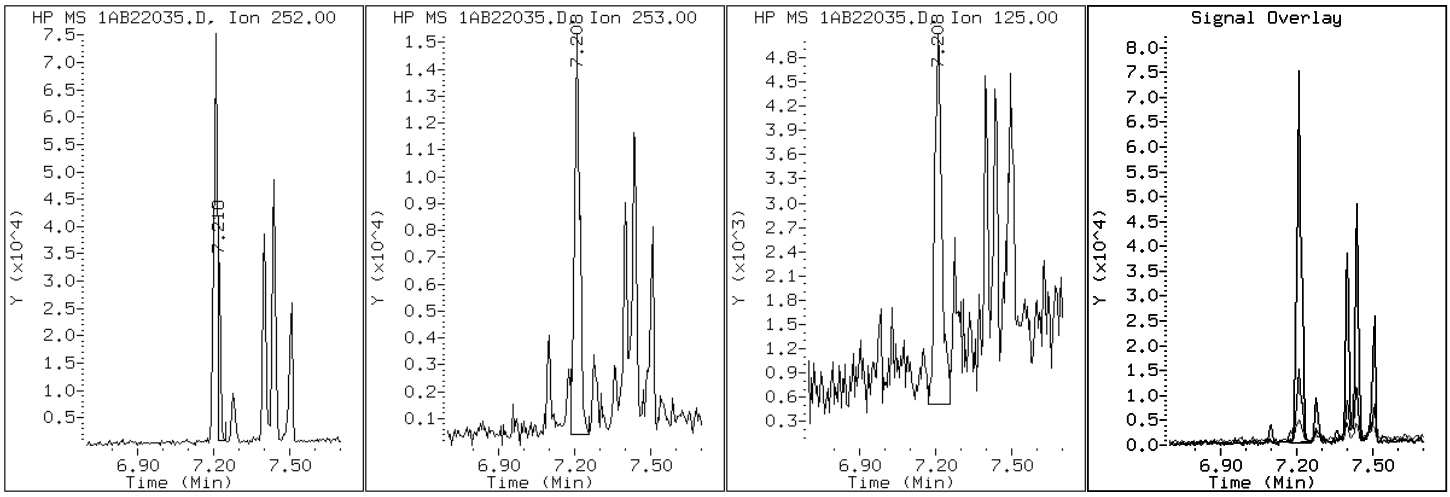
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

21 Benzo(k)fluoranthene



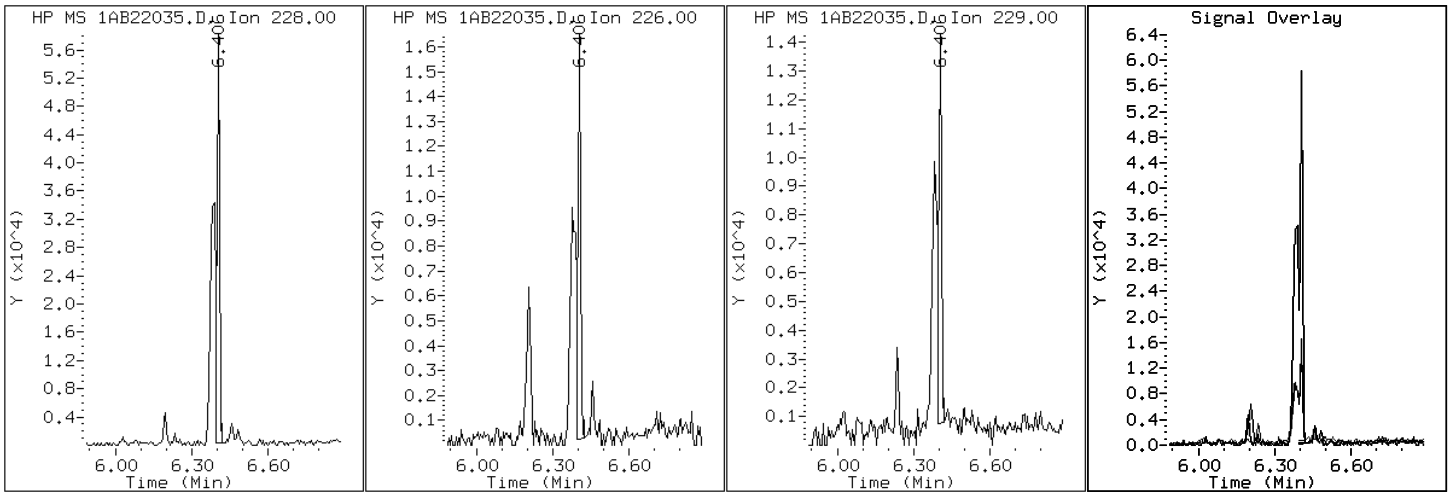
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

19 Chrysene



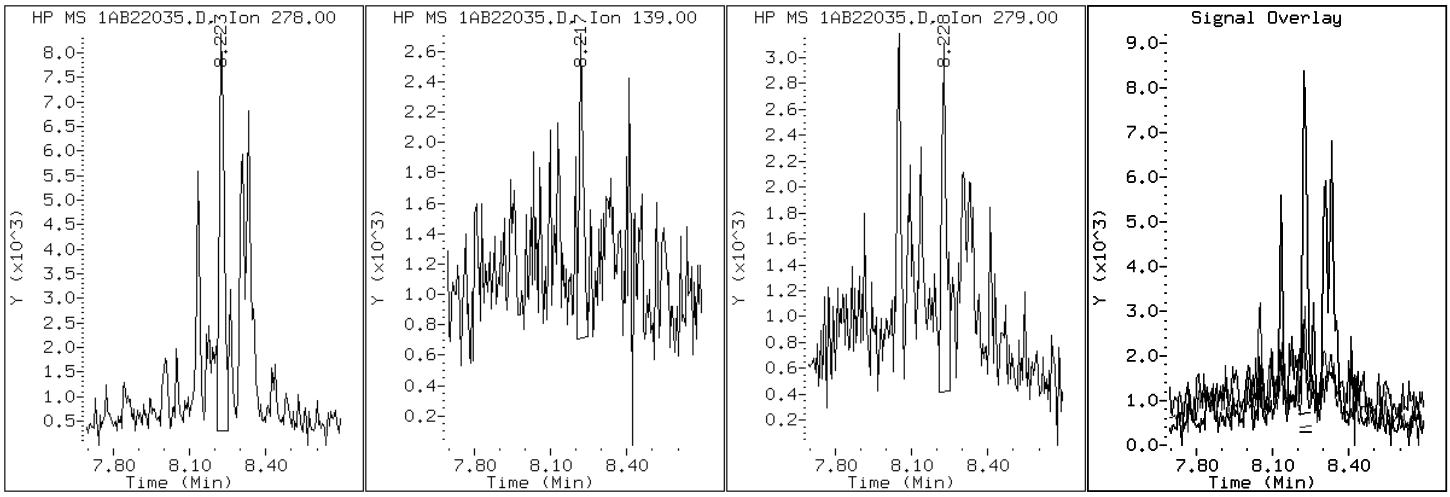
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

25 Dibenzo(a,h)anthracene



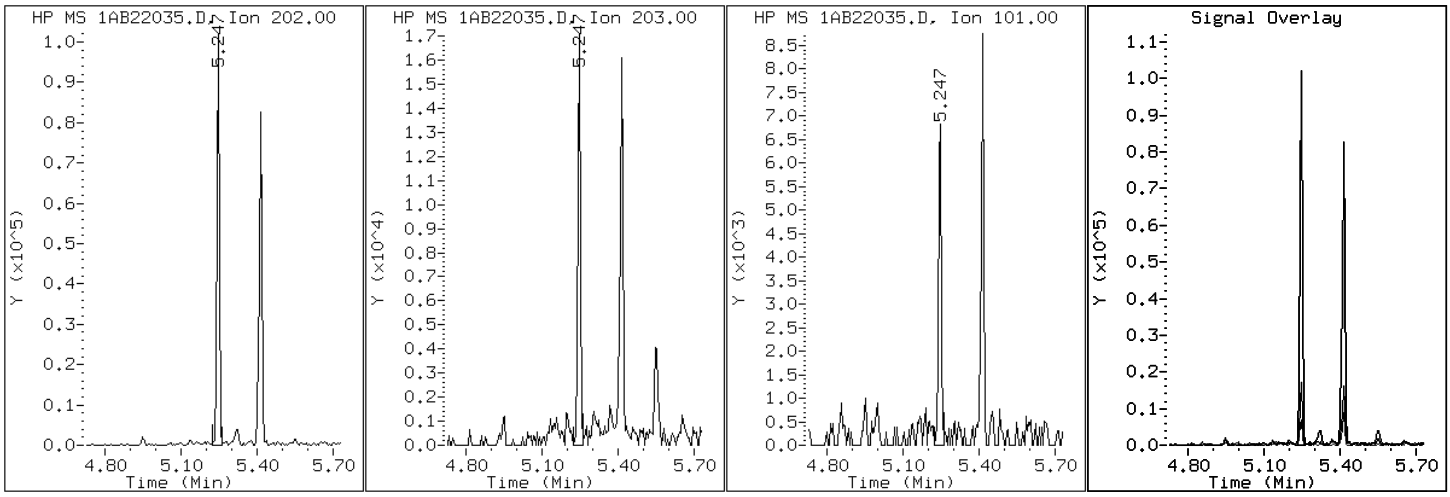
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

15 Fluoranthene



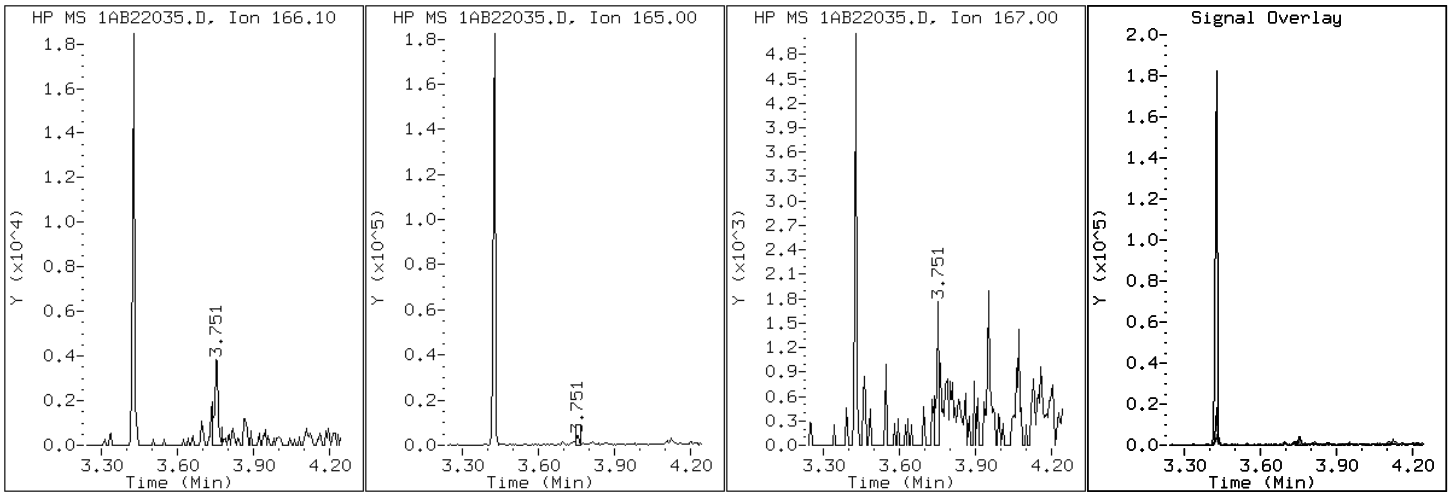
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

9 Fluorene



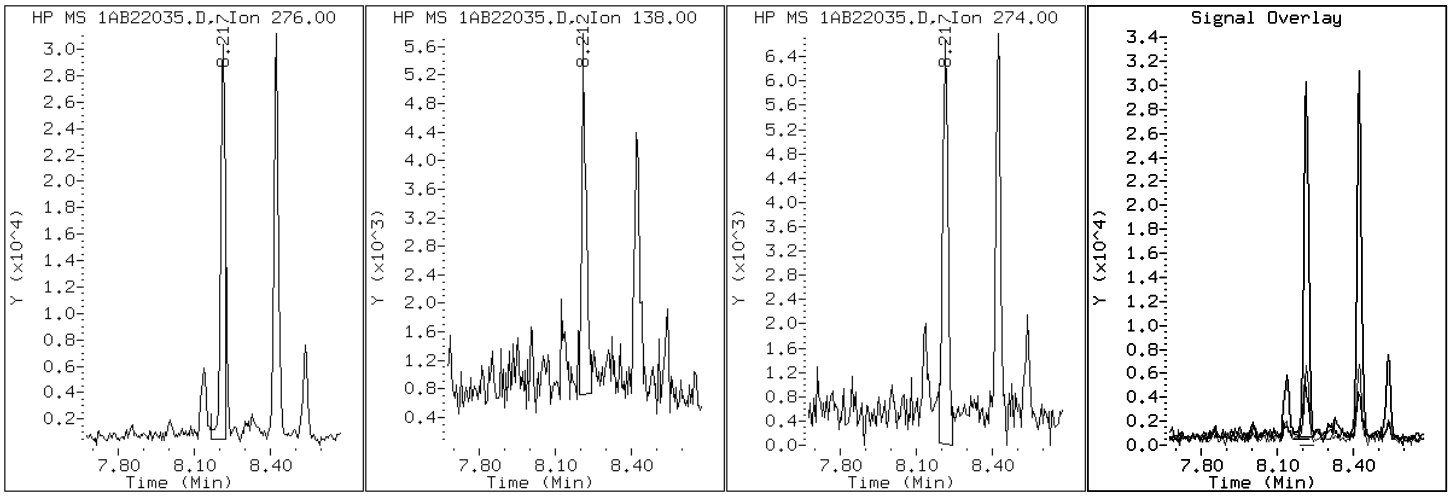
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

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



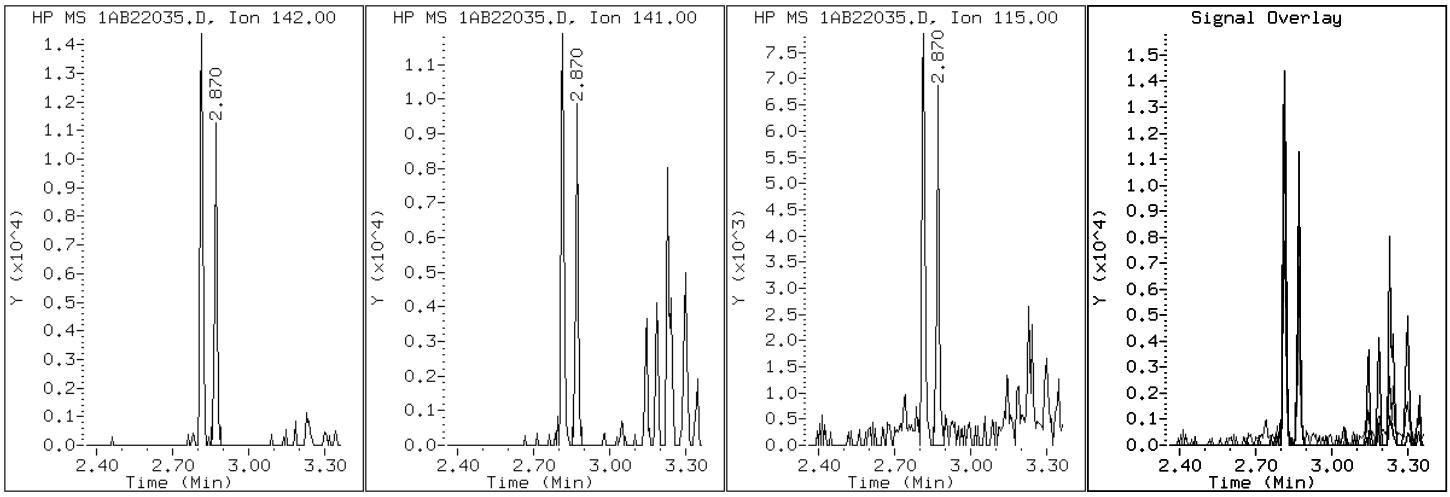
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

4 1-Methylnaphthalene



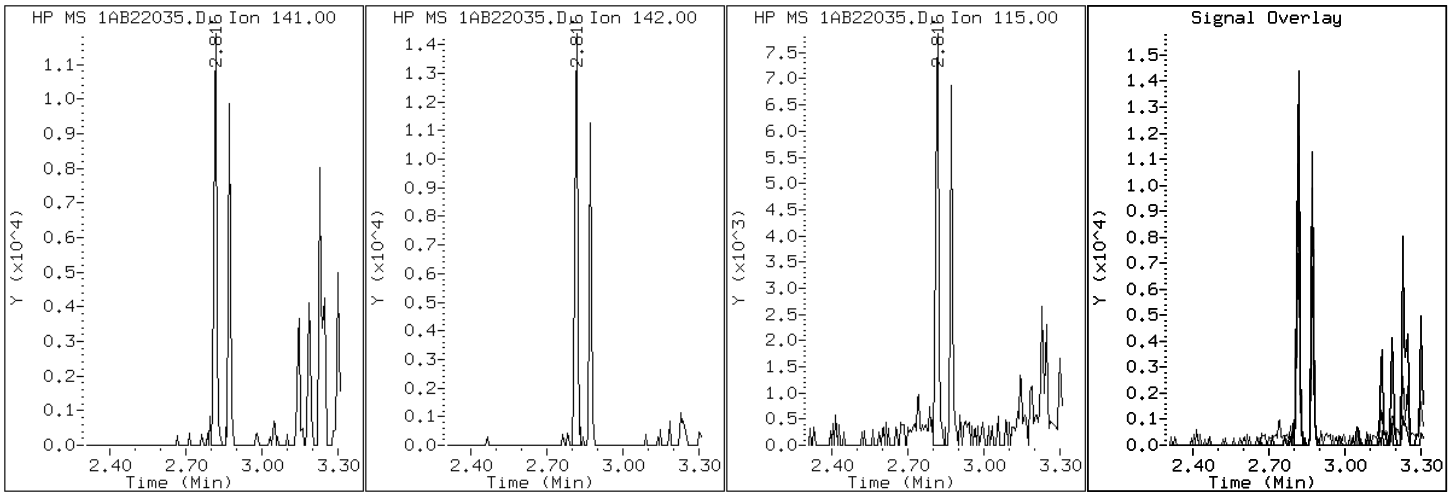
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

3 2-Methylnaphthalene



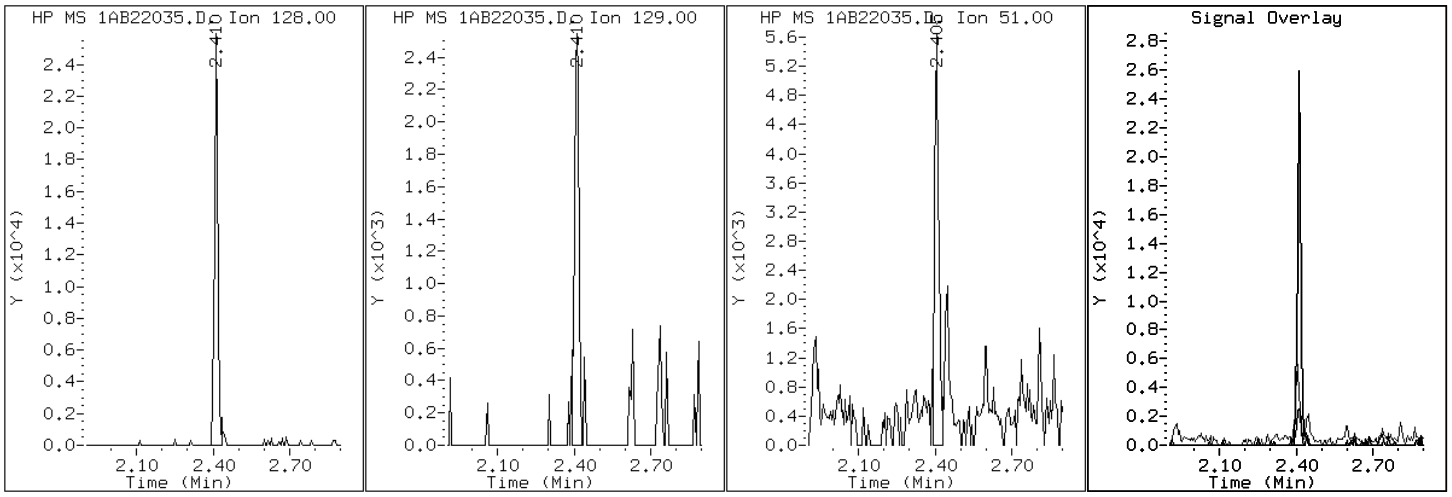
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

2 Naphthalene



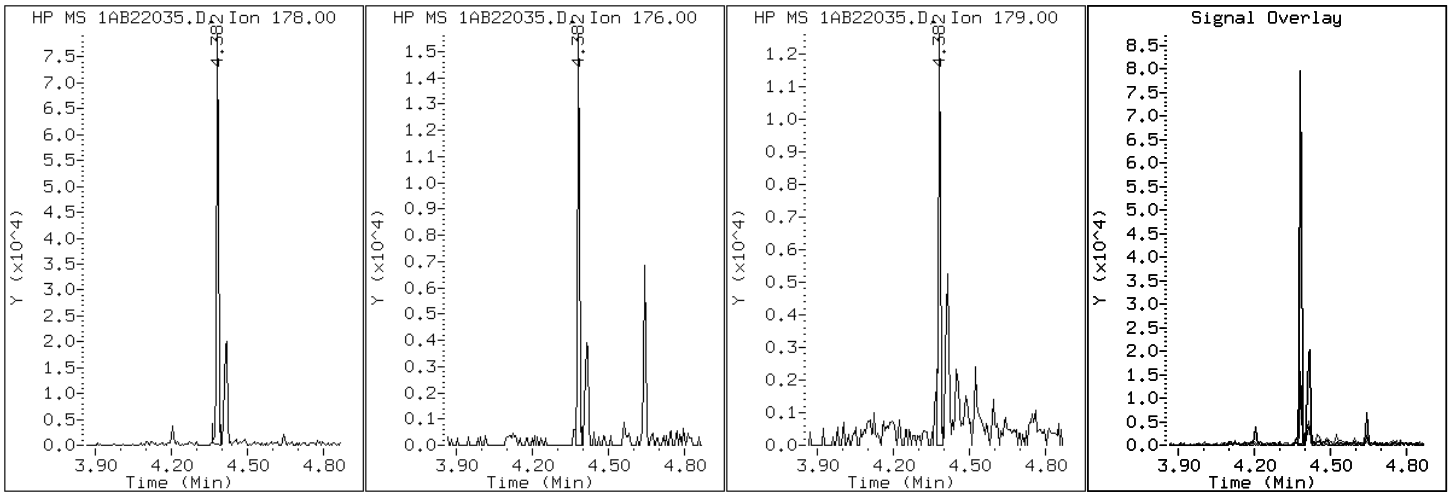
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

11 Phenanthrene



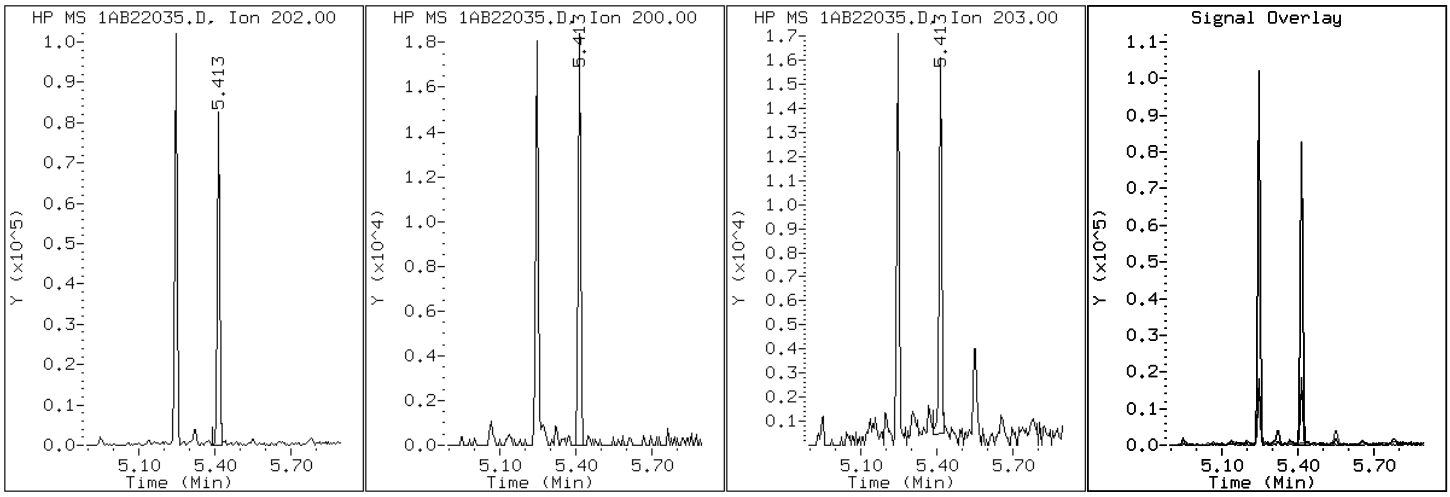
Data File: 1AB22035.D

Date: 22-FEB-2013 19:11

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-71-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22035.D
Inj. Date and Time: 22-FEB-2013 19:11
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Gr
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

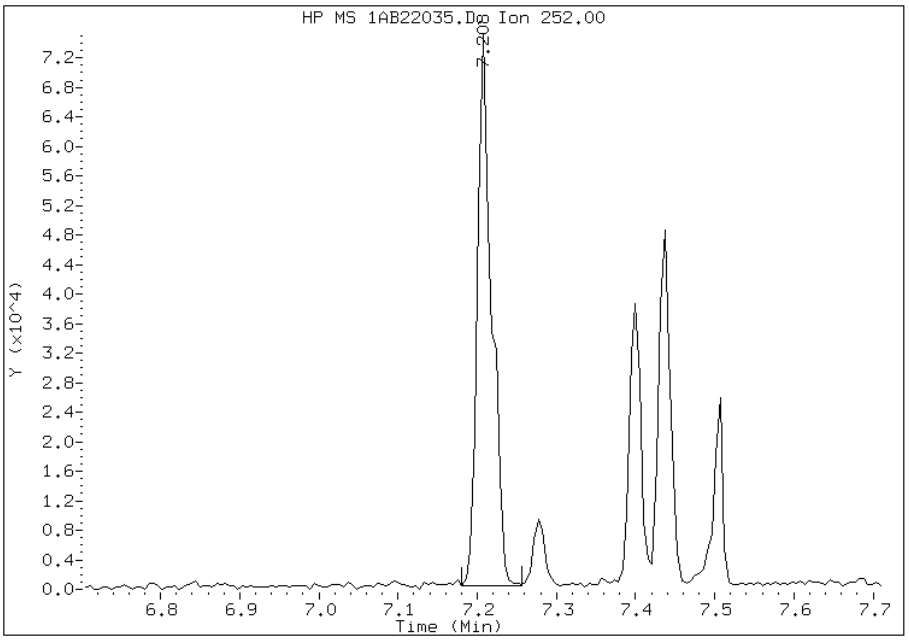
Processing Integration Results

RT: 7.21

Response: 91996

Amount: 3

Conc: 298



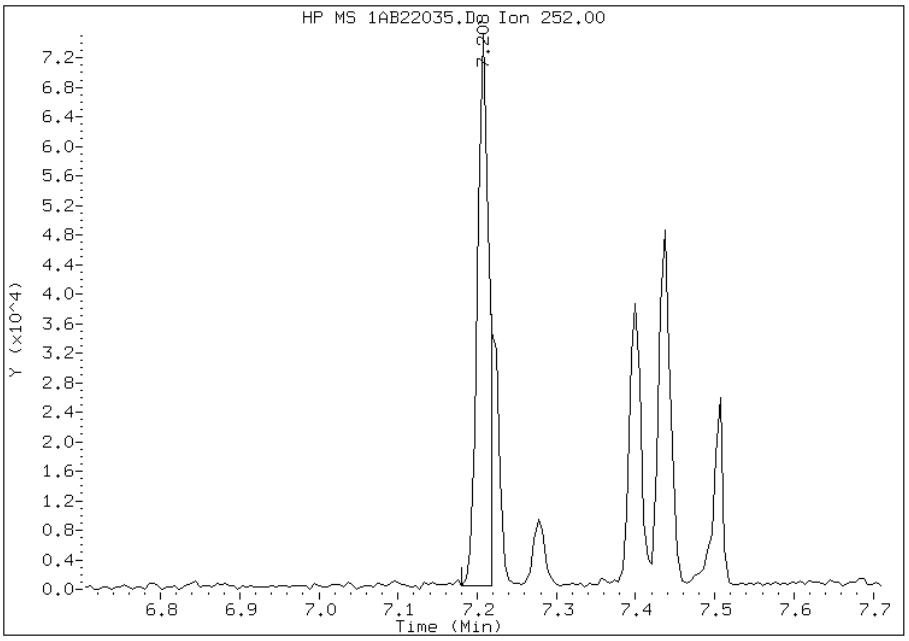
Manual Integration Results

RT: 7.21

Response: 75507

Amount: 3

Conc: 245



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:18
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22035.D
Inj. Date and Time: 22-FEB-2013 19:11
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Gr
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

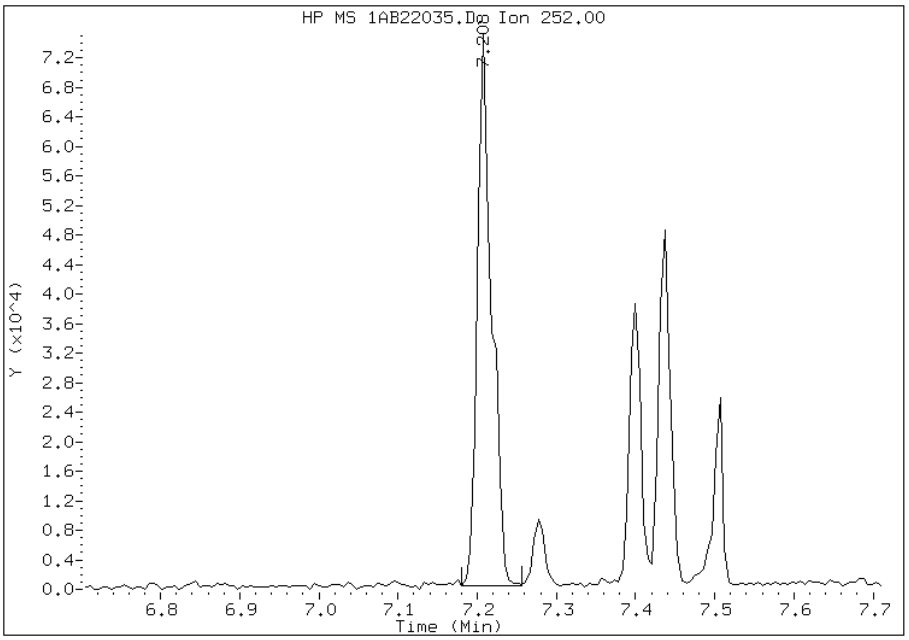
Processing Integration Results

RT: 7.21

Response: 92061

Amount: 3

Conc: 297



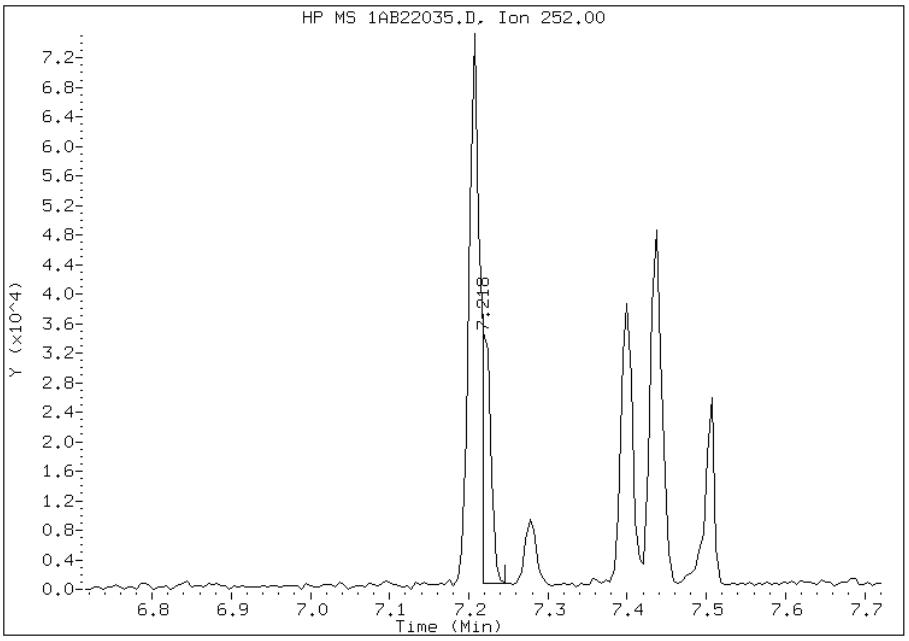
Manual Integration Results

RT: 7.22

Response: 26609

Amount: 1

Conc: 86



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22035.D
Inj. Date and Time: 22-FEB-2013 19:11
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Gr
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

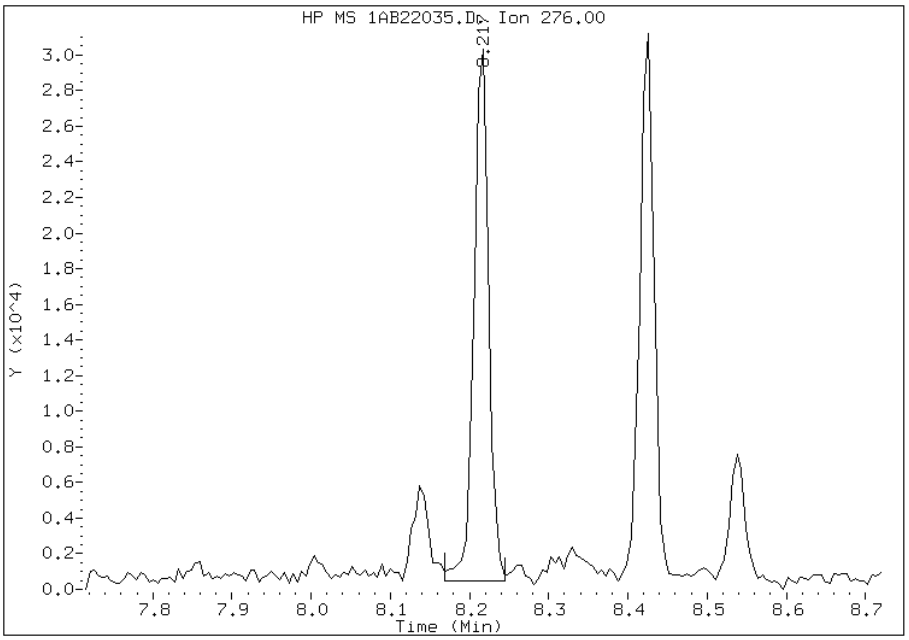
Processing Integration Results

RT: 8.22

Response: 38370

Amount: 2

Conc: 158



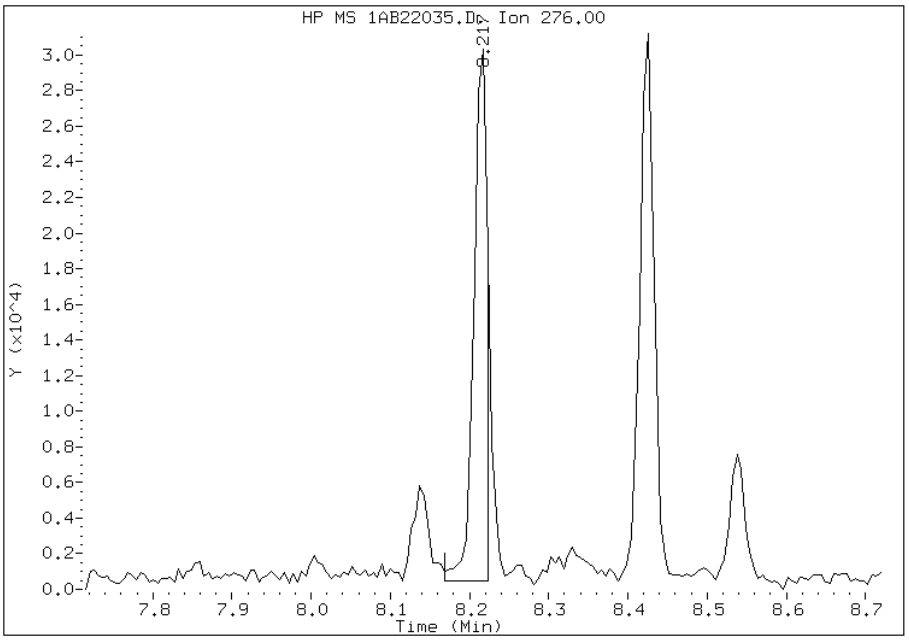
Manual Integration Results

RT: 8.22

Response: 34255

Amount: 1

Conc: 141



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: Unamed Tributary SD-A | Lab Sample ID: 680-87496-72

Matrix: Solid | Lab File ID: 1AB22036.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:30

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 14.99(g) | Date Analyzed: 02/22/2013 19:26

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

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

% Moisture: 10.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	38	J	110	22
208-96-8	Acenaphthylene	480		44	5.6
120-12-7	Anthracene	360		9.3	4.7
56-55-3	Benzo[a]anthracene	1400		8.9	4.3
50-32-8	Benzo[a]pyrene	1300		12	5.8
205-99-2	Benzo[b]fluoranthene	2000		14	6.8
191-24-2	Benzo[g,h,i]perylene	910		22	4.9
207-08-9	Benzo[k]fluoranthene	520		8.9	4.0
218-01-9	Chrysene	1300		10	5.0
53-70-3	Dibenz(a,h)anthracene	300		22	4.6
206-44-0	Fluoranthene	2200		22	4.4
86-73-7	Fluorene	48		22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	930		22	7.9
90-12-0	1-Methylnaphthalene	73		44	4.9
91-57-6	2-Methylnaphthalene	100		44	7.9
91-20-3	Naphthalene	140		44	4.9
85-01-8	Phenanthrene	540		8.9	4.3
129-00-0	Pyrene	2100		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22036.D
Lab Smp Id: 680-87496-A-72-A Client Smp ID: Unamed Tributary SD
Inj Date : 22-FEB-2013 19:26
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-72-a
Misc Info : 680-87496-A-72-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 36
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	9.982	% 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	2.399	2.397	(1.000)	965389	40.0000	
* 6 Acenaphthene-d10	164	3.430	3.417	(1.000)	748733	40.0000	
* 10 Phenanthrene-d10	188	4.370	4.352	(1.000)	1022005	40.0000	
$ 14 o-Terphenyl	230	4.642	4.635	(1.062)	71586	4.81372	356.7402
* 18 Chrysene-d12	240	6.400	6.366	(1.000)	896367	40.0000	
* 23 Perylene-d12	264	7.506	7.456	(1.000)	1281443	40.0000	(H)
2 Naphthalene	128	2.409	2.402	(1.004)	45375	1.95058	144.5559
3 2-Methylnaphthalene	141	2.815	2.808	(1.174)	16455	1.37024	101.5472
4 1-Methylnaphthalene	142	2.869	2.861	(1.196)	13169	0.98477	72.9805
5 Acenaphthylene	152	3.339	3.332	(0.974)	181970	6.50902	482.3773
7 Acenaphthene	154	3.440	3.433	(1.003)	8347	0.51671	38.2932
9 Fluorene	166	3.756	3.743	(1.095)	13147	0.64483	47.7875
11 Phenanthrene	178	4.381	4.368	(1.002)	184786	7.27401	539.0700
12 Anthracene	178	4.418	4.400	(1.011)	121121	4.90850	363.7646

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.573	4.555	(1.046)	16056	0.73710	54.6255
15 Fluoranthene	202	5.257	5.228	(1.203)	752062	29.6087	2194.2760
16 Pyrene	202	5.422	5.394	(0.847)	753130	28.6452	2122.8668
17 Benzo(a)anthracene	228	6.395	6.355	(0.999)	510998	19.0921	1414.9014
19 Chrysene	228	6.416	6.387	(1.002)	424108	17.7175	1313.0284
20 Benzo(b)fluoranthene	252	7.228	7.178	(0.963)	882547	27.1682	2013.4135(MH)
21 Benzo(k)fluoranthene	252	7.239	7.199	(0.964)	231367	7.07947	524.6531(QMH)
22 Benzo(a)pyrene	252	7.458	7.408	(0.994)	518317	17.4231	1291.2067(H)
24 Indeno(1,2,3-cd)pyrene	276	8.248	8.177	(1.099)	319055	12.5012	926.4517(MH)
25 Dibenzo(a,h)anthracene	278	8.254	8.193	(1.100)	106206	3.99331	295.9406(H)
26 Benzo(g,h,i)perylene	276	8.467	8.385	(1.128)	333844	12.2983	911.4186(H)

QC Flag Legend

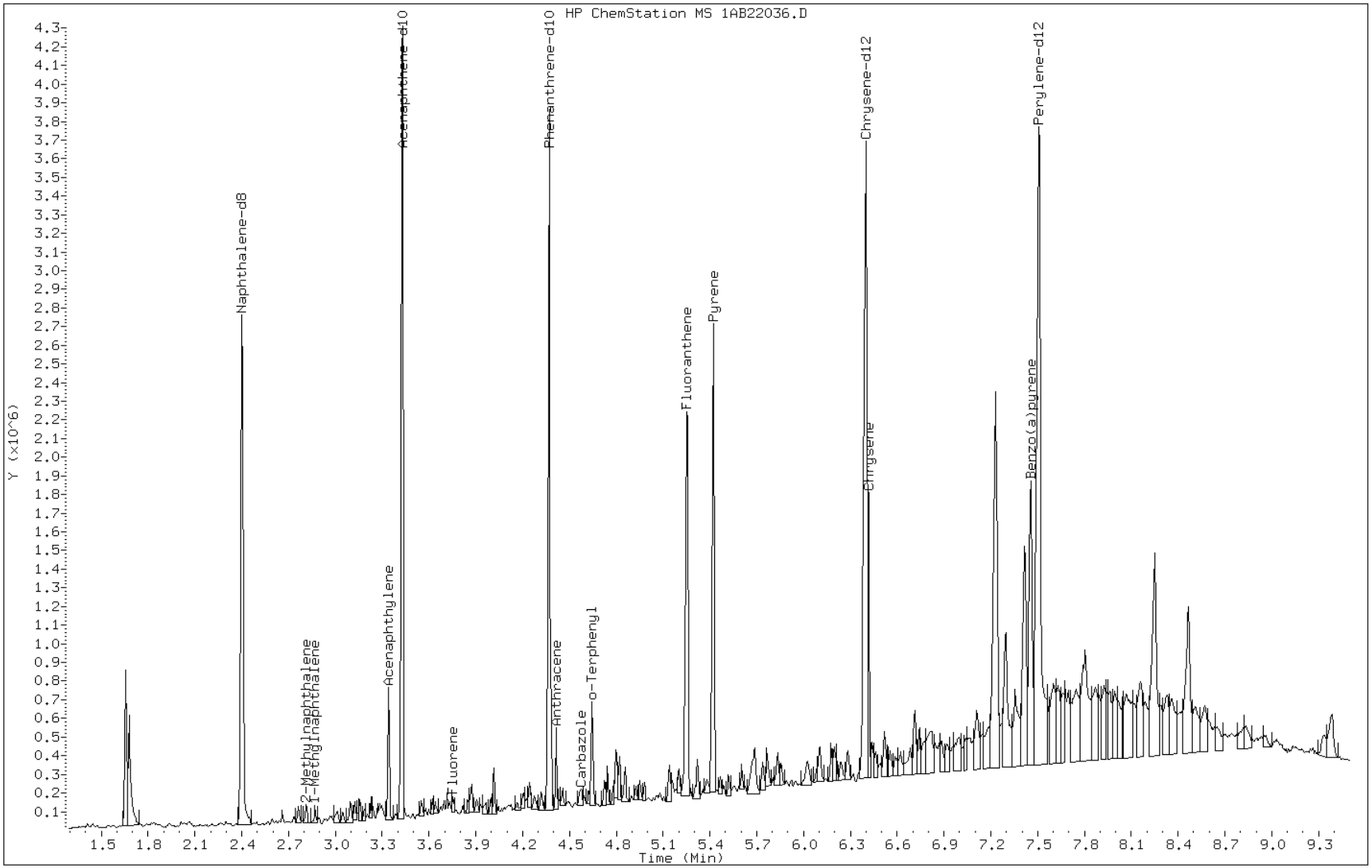
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC



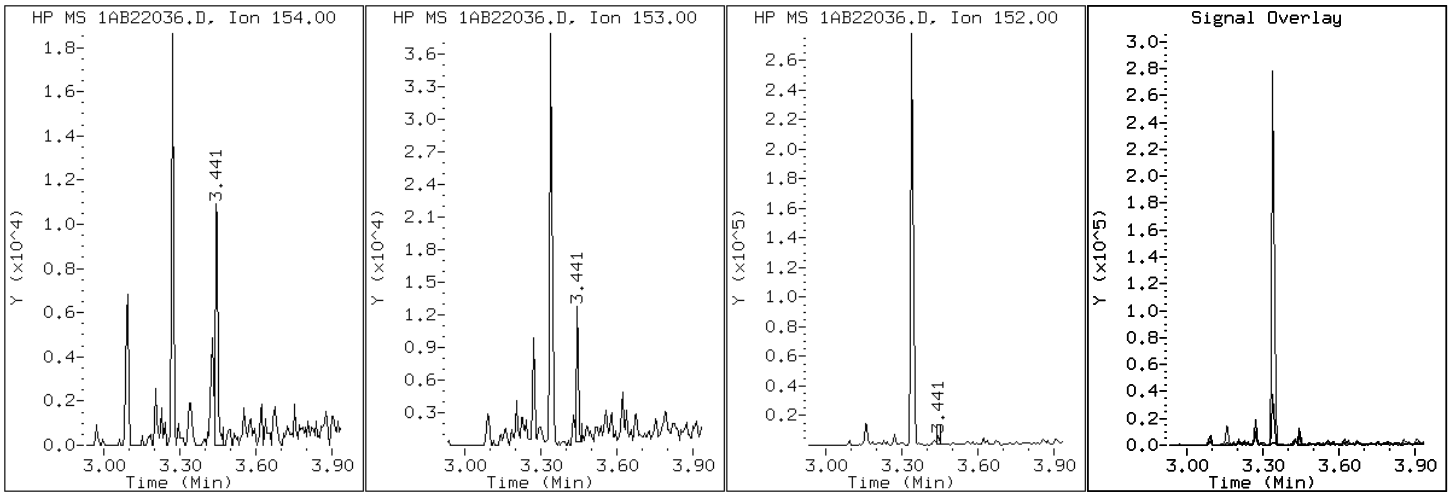
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

7 Acenaphthene



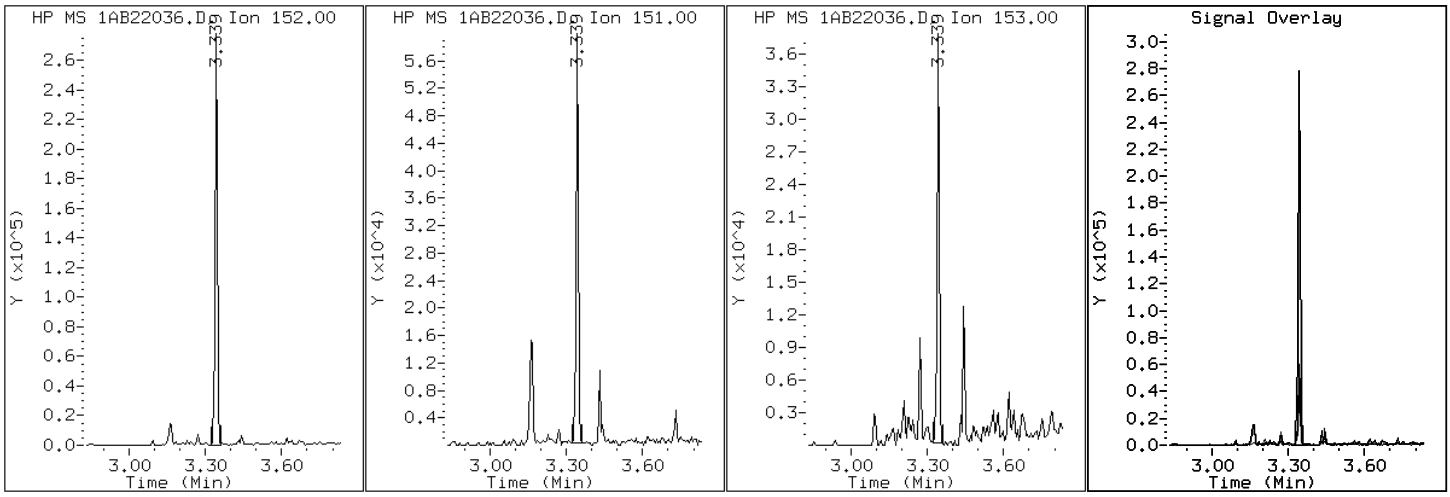
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

5 Acenaphthylene



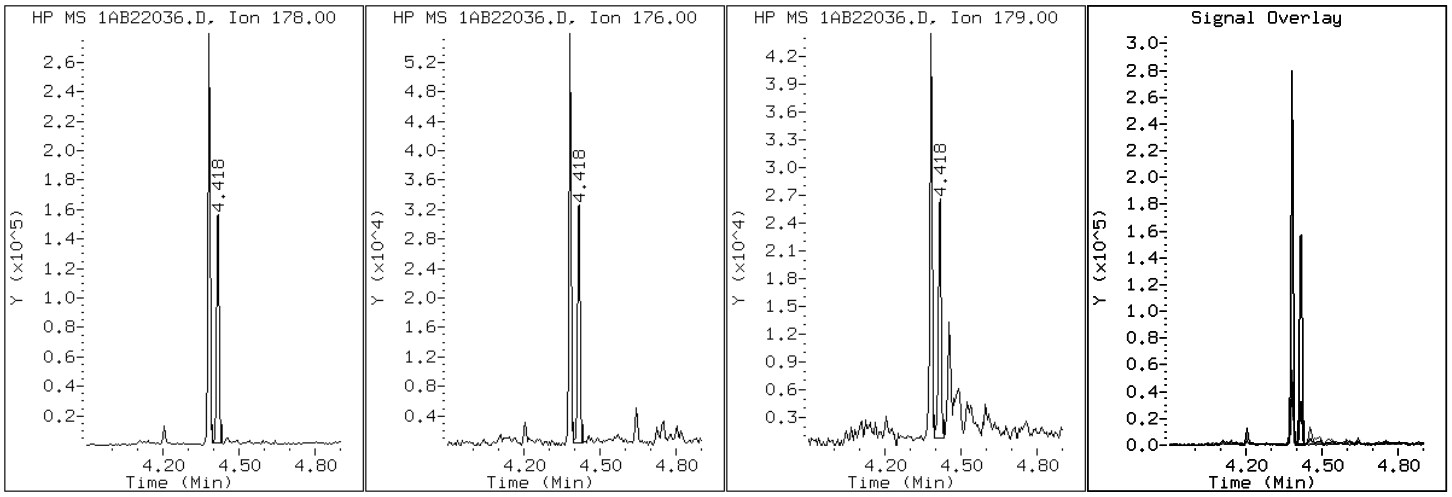
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

12 Anthracene



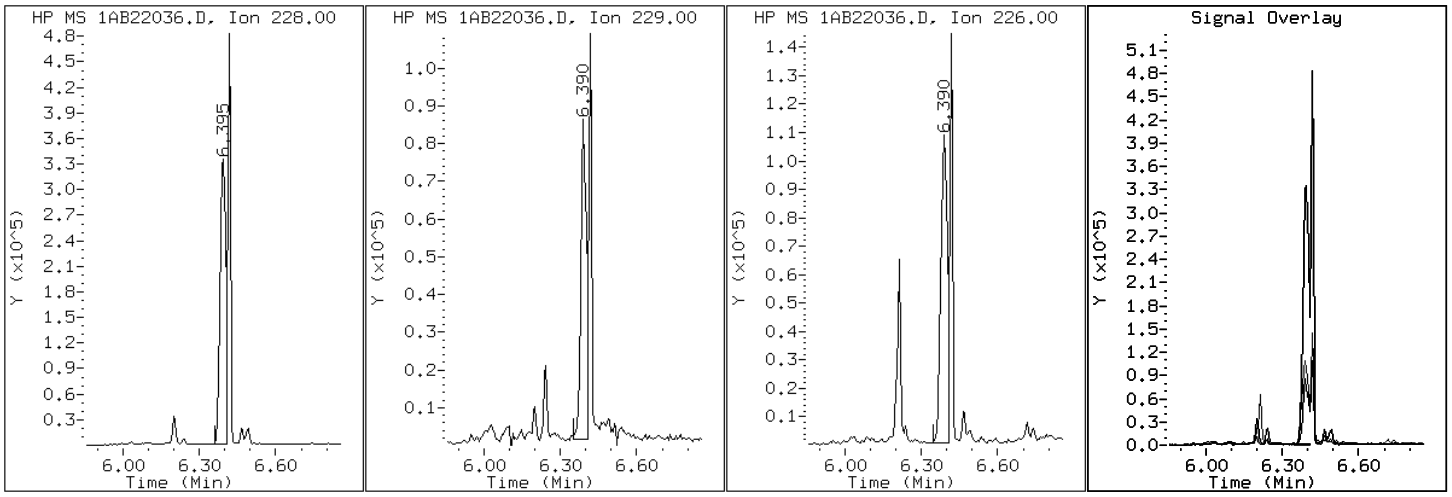
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

17 Benzo(a)anthracene



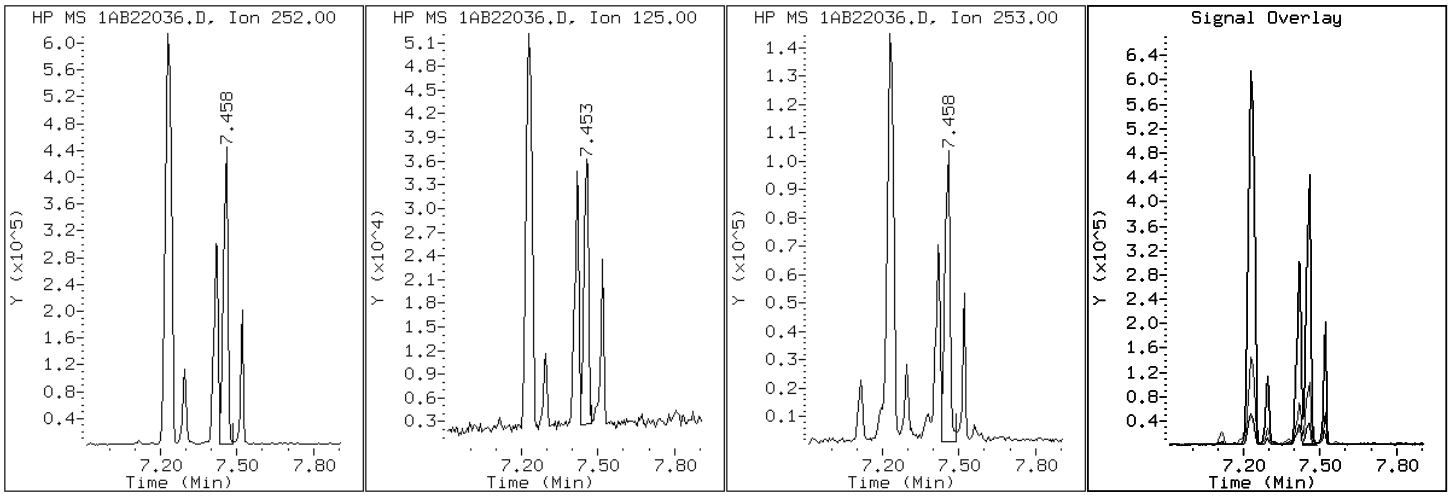
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

22 Benzo(a)pyrene



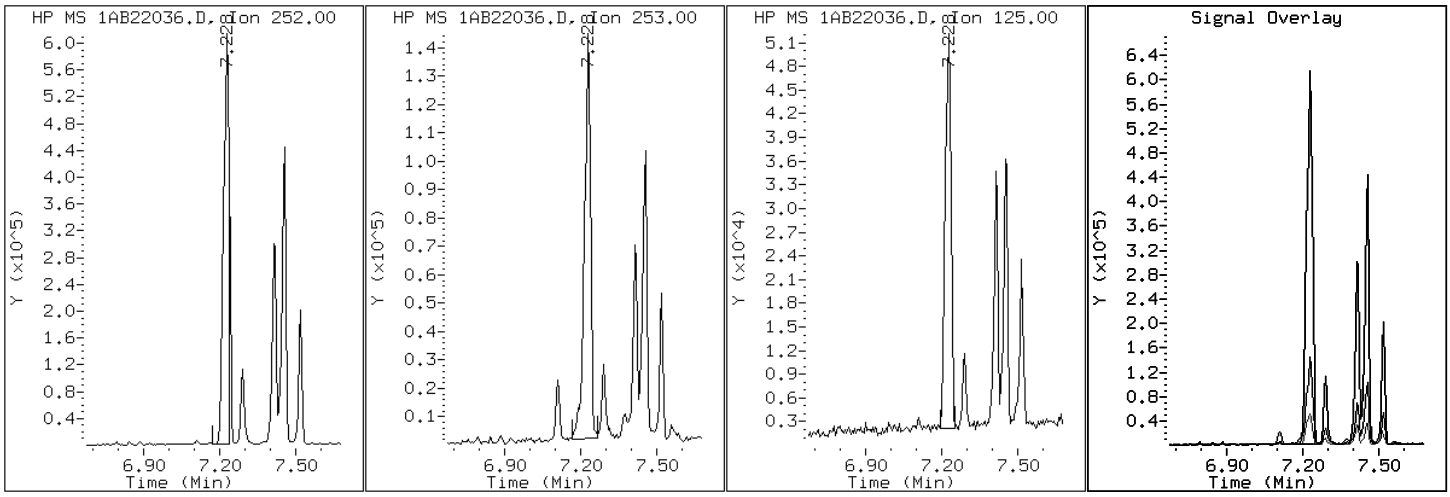
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

20 Benzo(b)fluoranthene



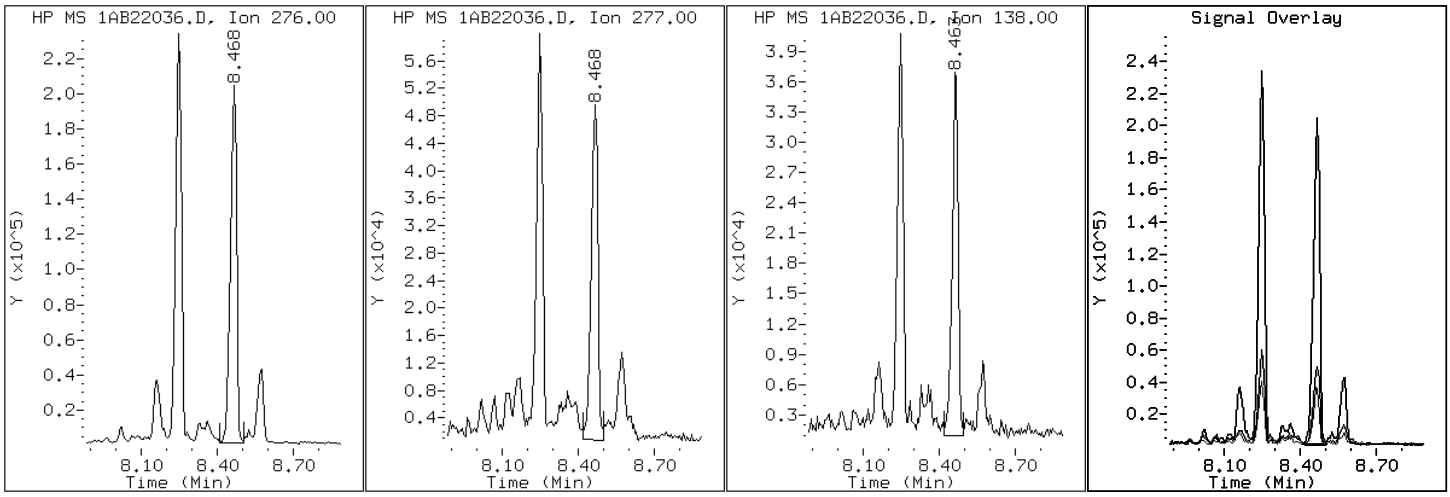
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

26 Benzo(g,h,i)perylene



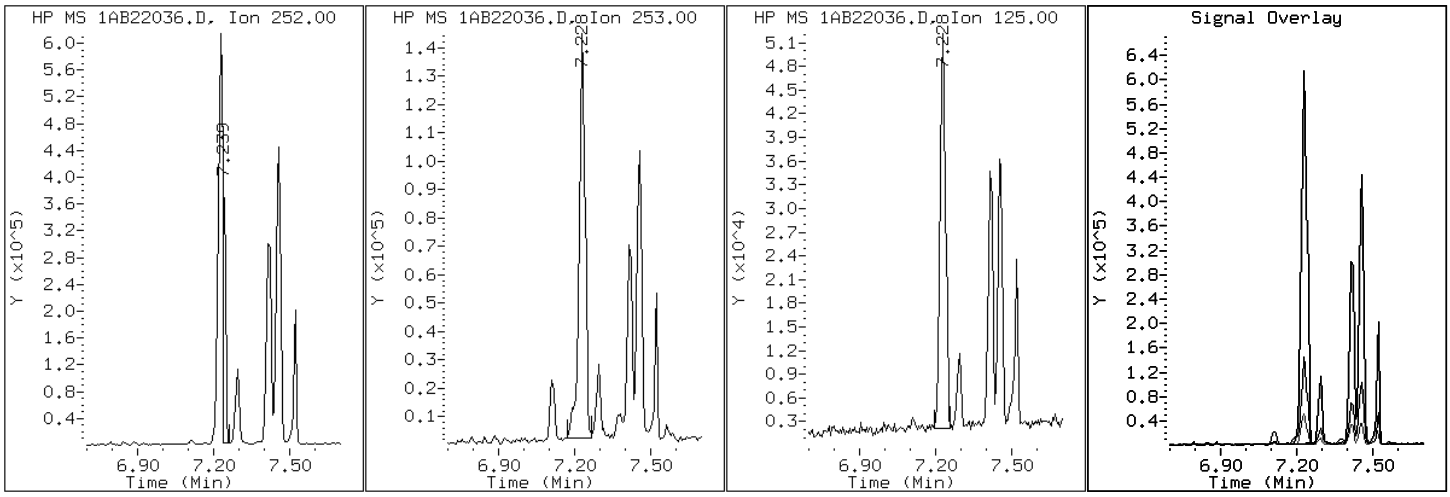
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

21 Benzo(k)fluoranthene



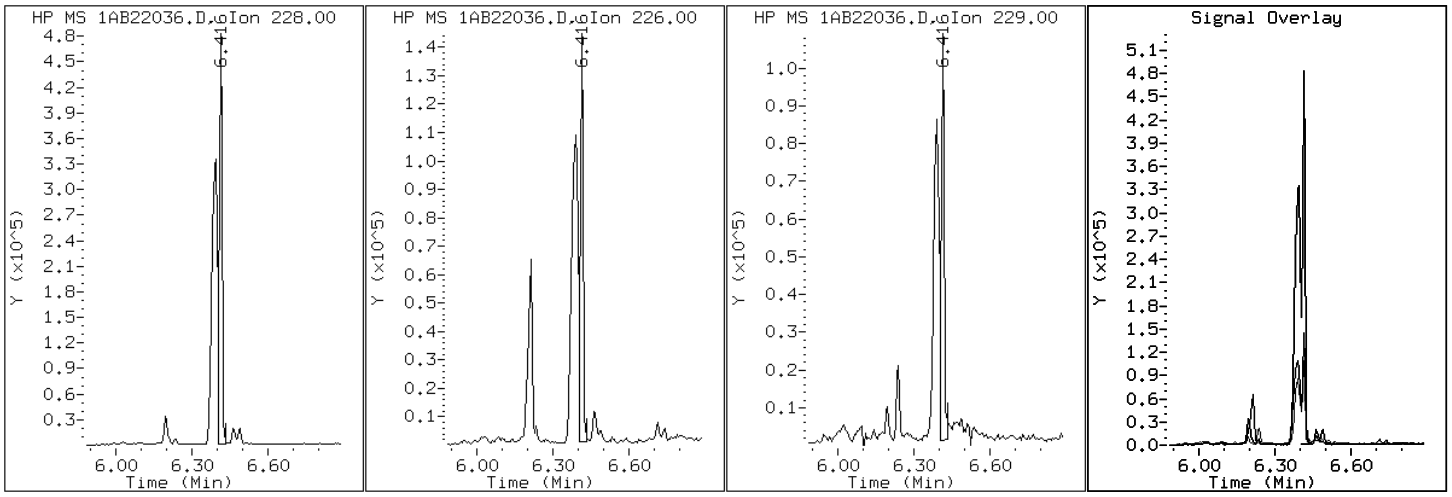
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

19 Chrysene



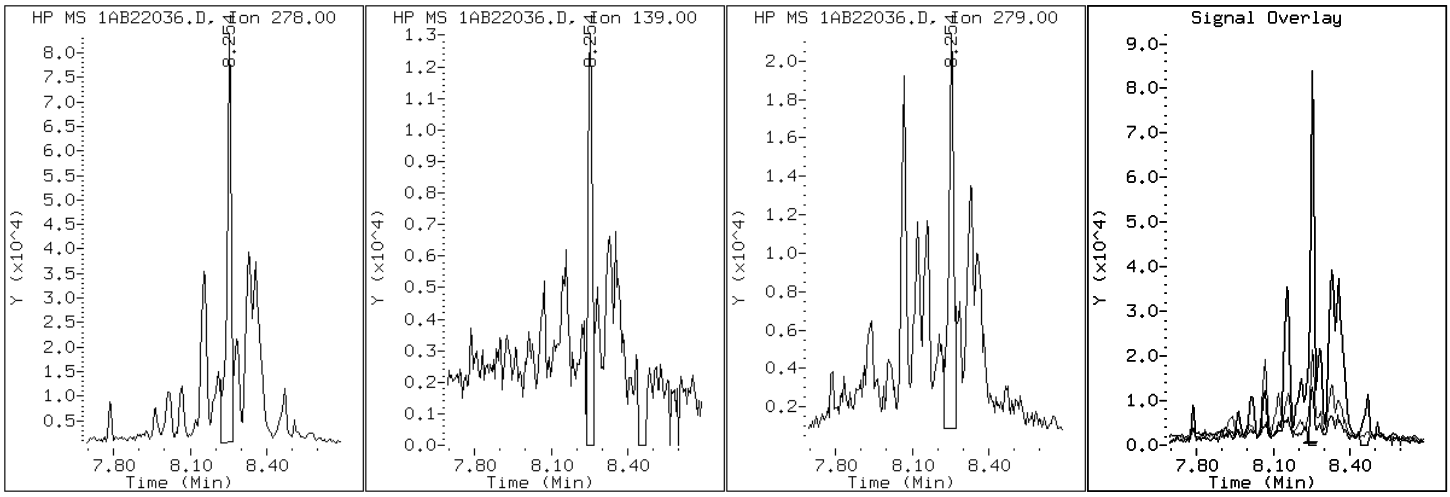
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

25 Dibenzo(a,h)anthracene



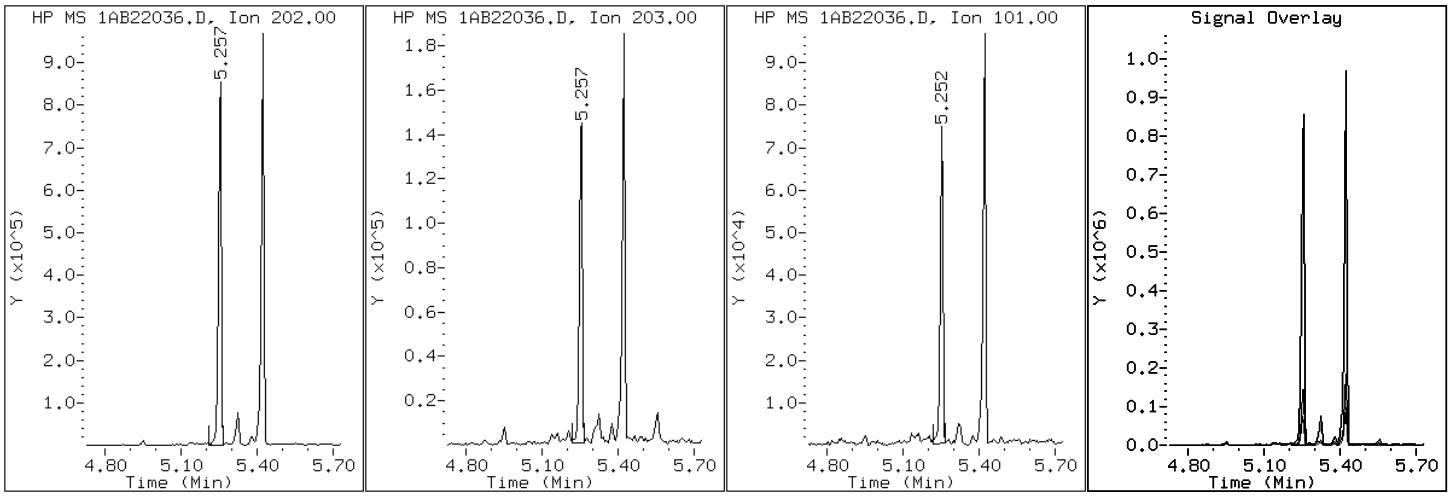
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

15 Fluoranthene



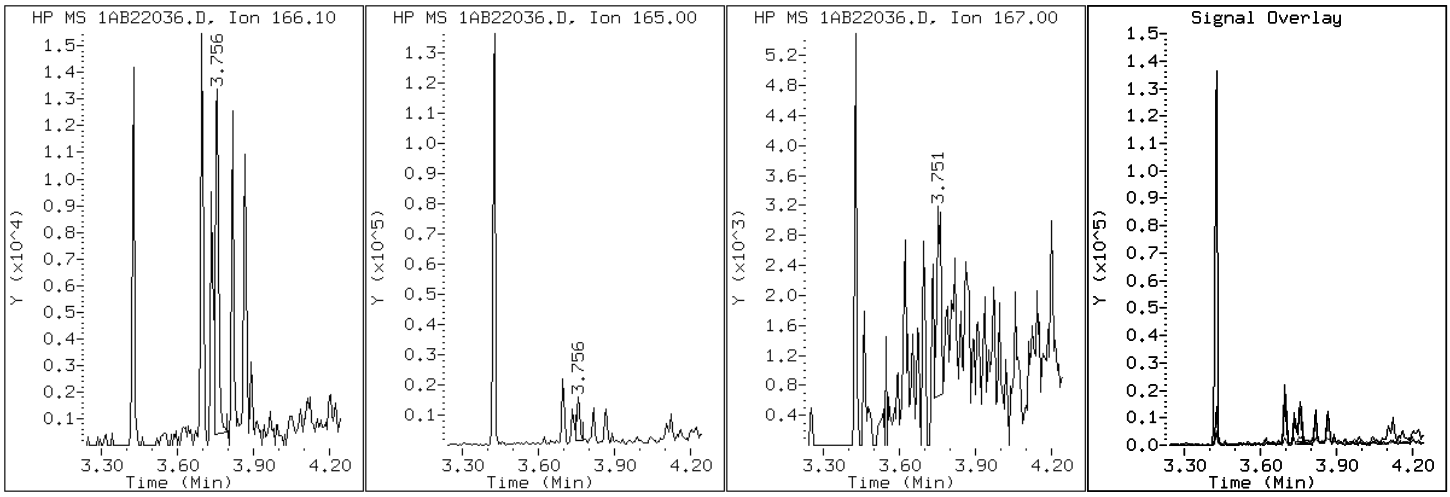
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

9 Fluorene



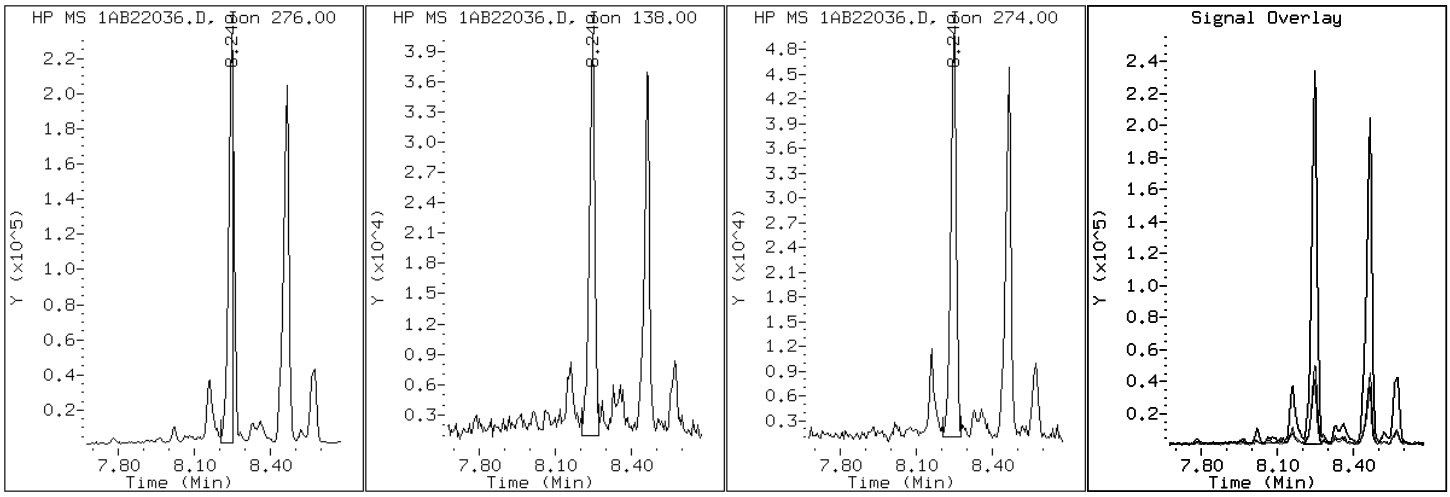
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

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



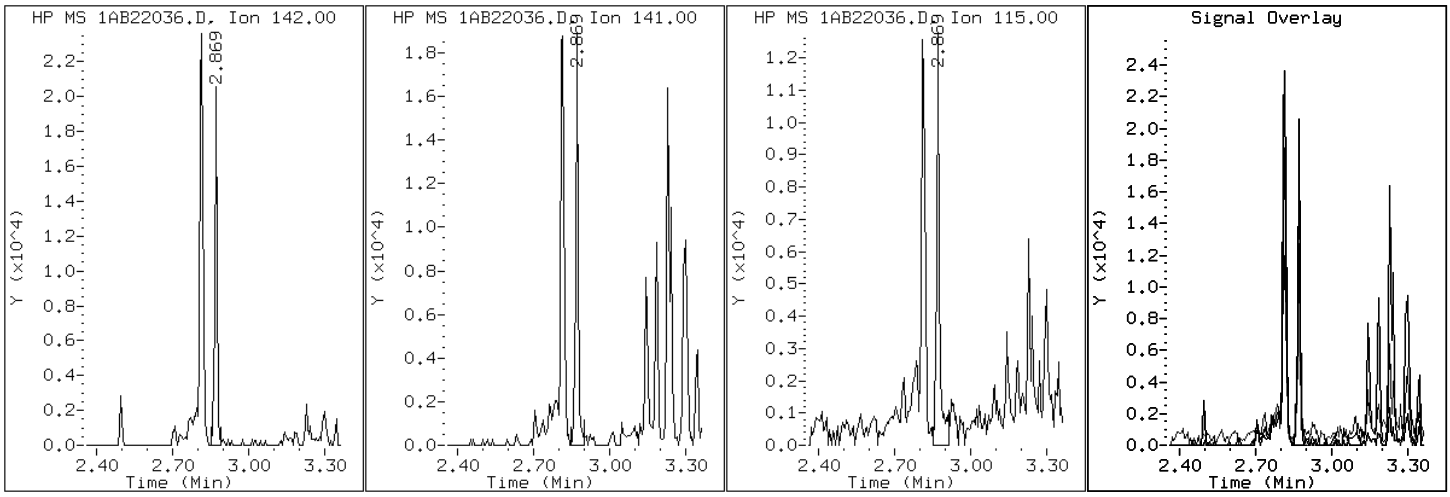
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

4 1-Methylnaphthalene



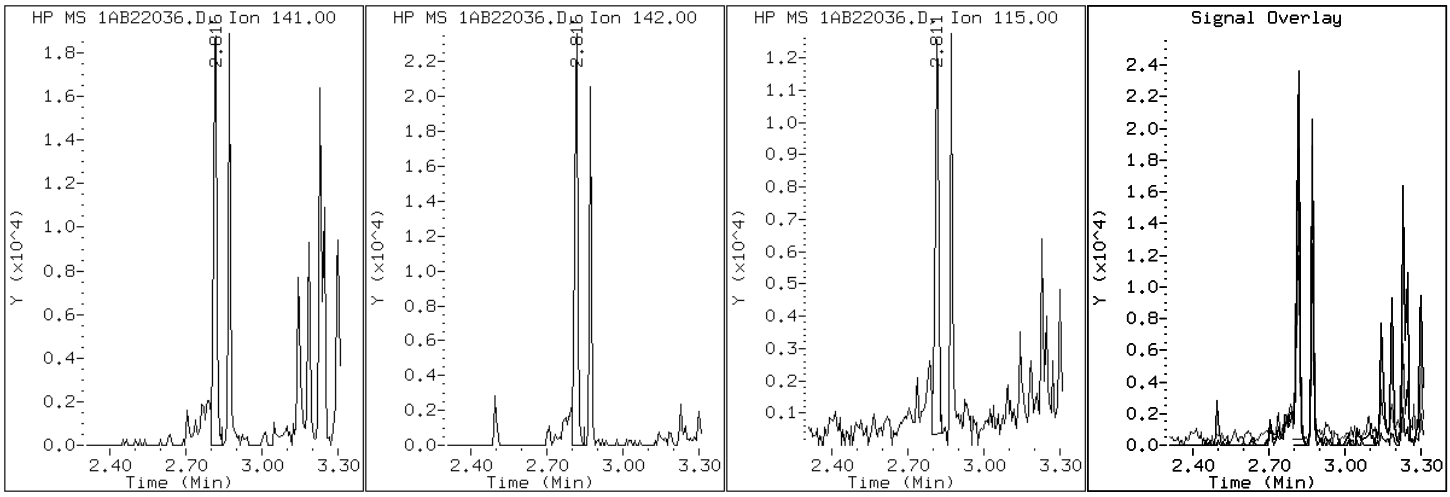
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

3 2-Methylnaphthalene



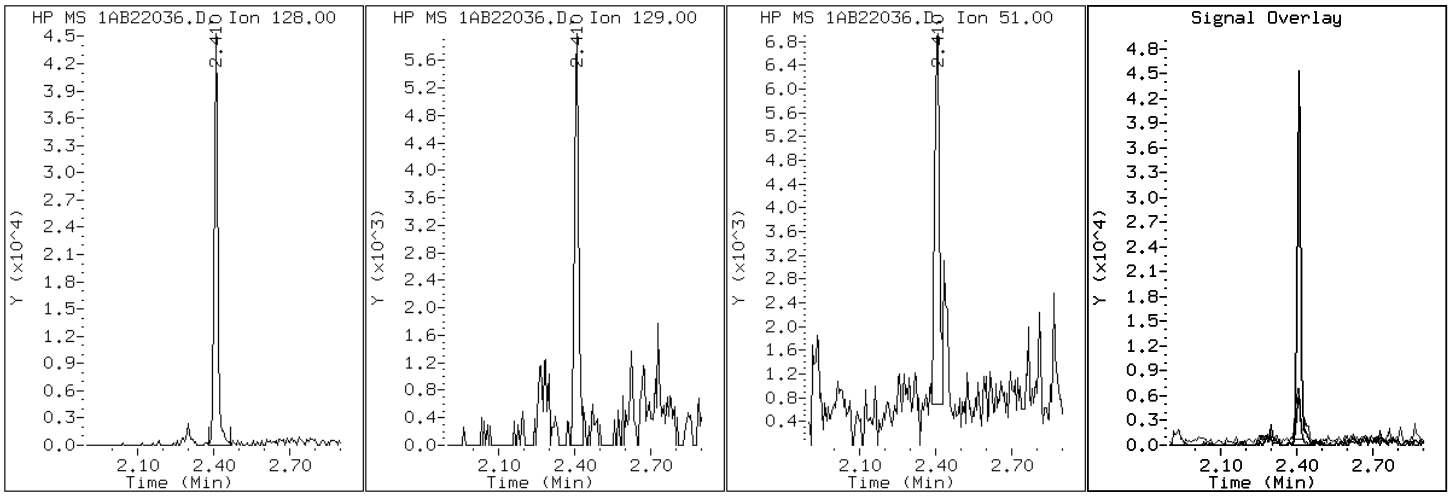
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

2 Naphthalene



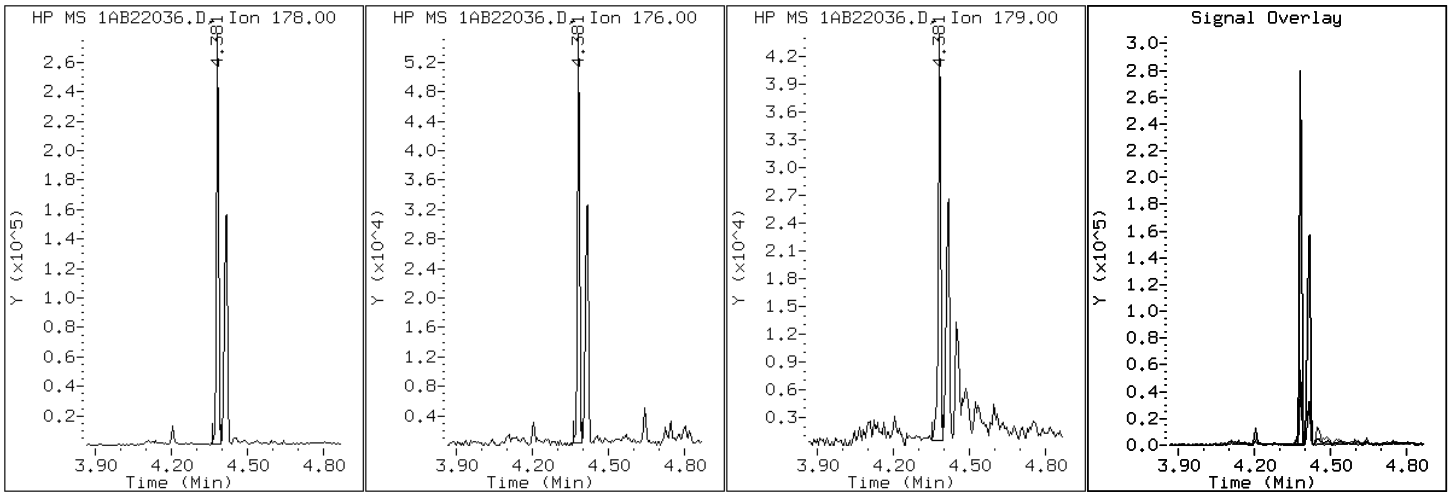
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

11 Phenanthrene



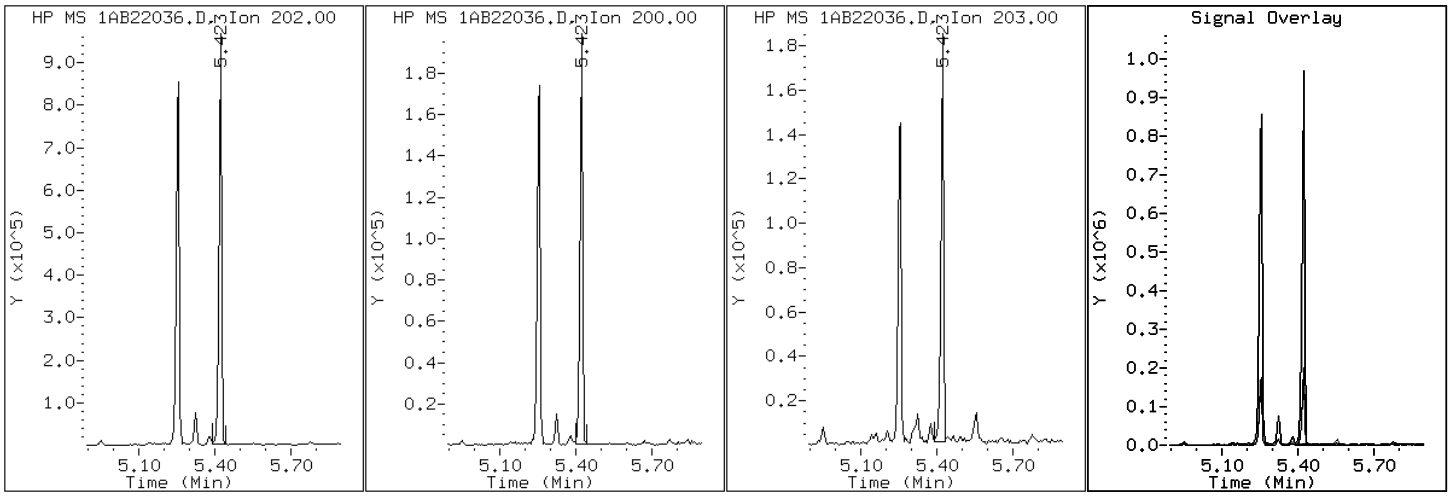
Data File: 1AB22036.D

Date: 22-FEB-2013 19:26

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-72-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22036.D
Inj. Date and Time: 22-FEB-2013 19:26
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary SD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

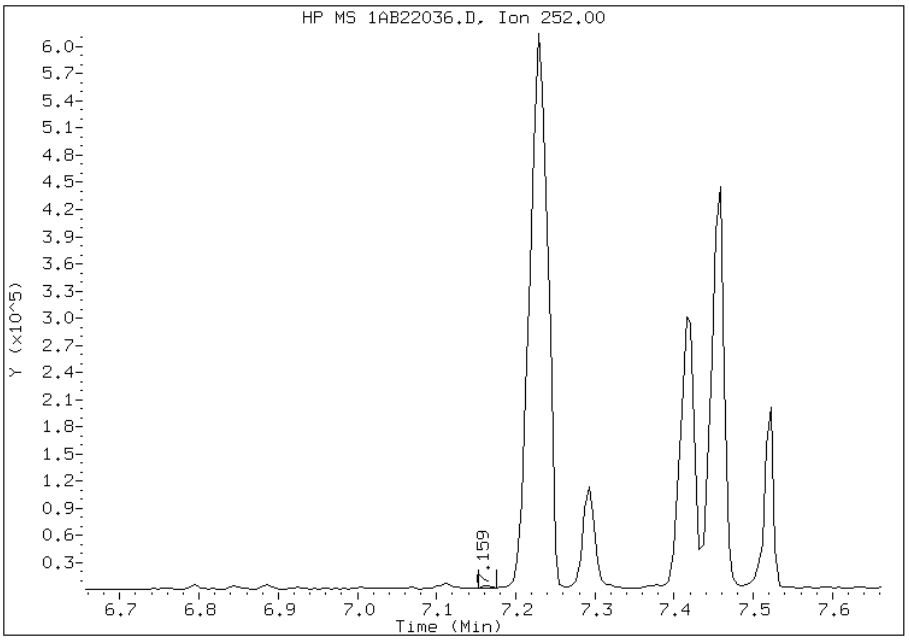
Processing Integration Results

RT: 7.16

Response: 1934

Amount: 0

Conc: 4



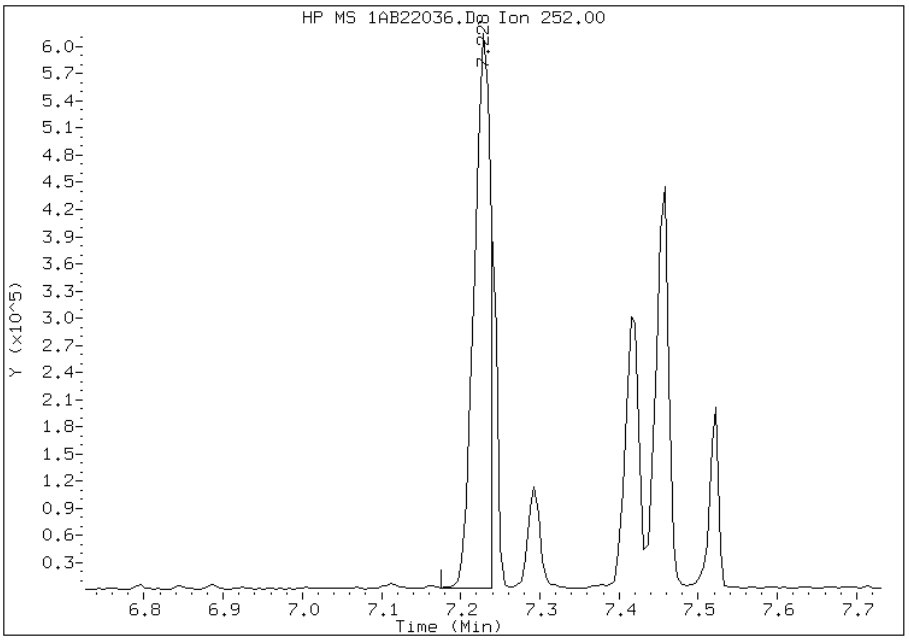
Manual Integration Results

RT: 7.23

Response: 882547

Amount: 27

Conc: 2013



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:20
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22036.D
Inj. Date and Time: 22-FEB-2013 19:26
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary SD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

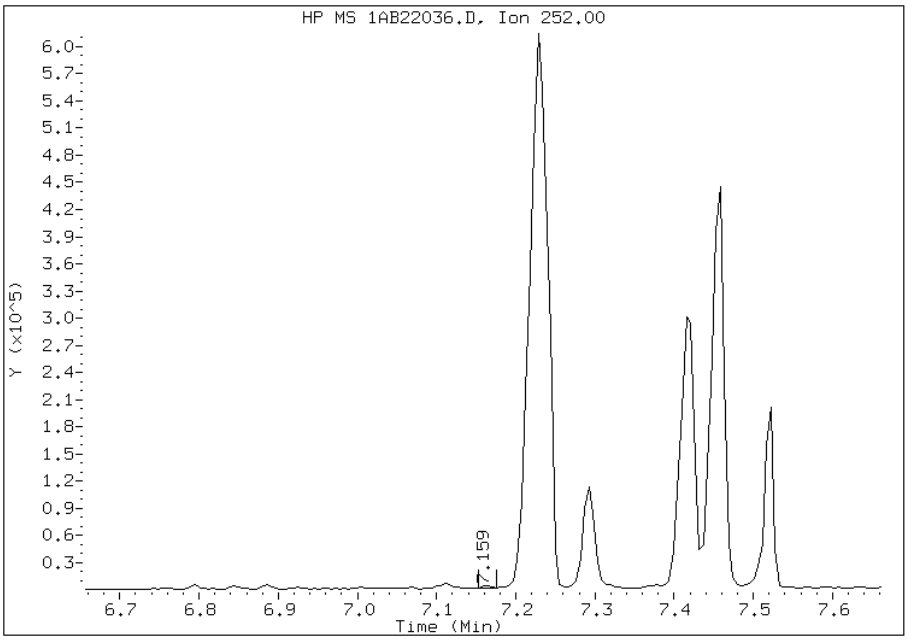
Processing Integration Results

RT: 7.16

Response: 1936

Amount: 0

Conc: 4



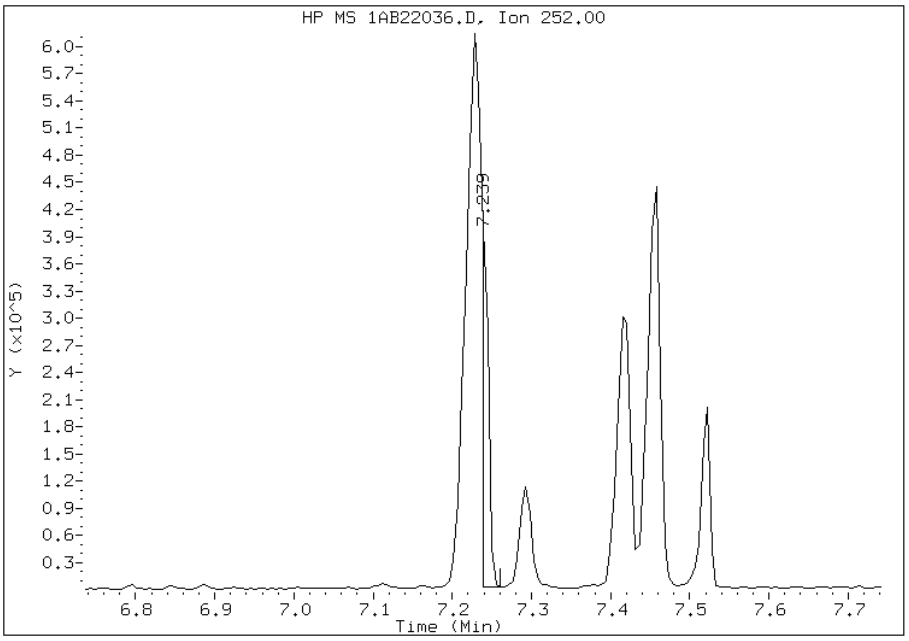
Manual Integration Results

RT: 7.24

Response: 231367

Amount: 7

Conc: 525



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22036.D
Inj. Date and Time: 22-FEB-2013 19:26
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary SD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

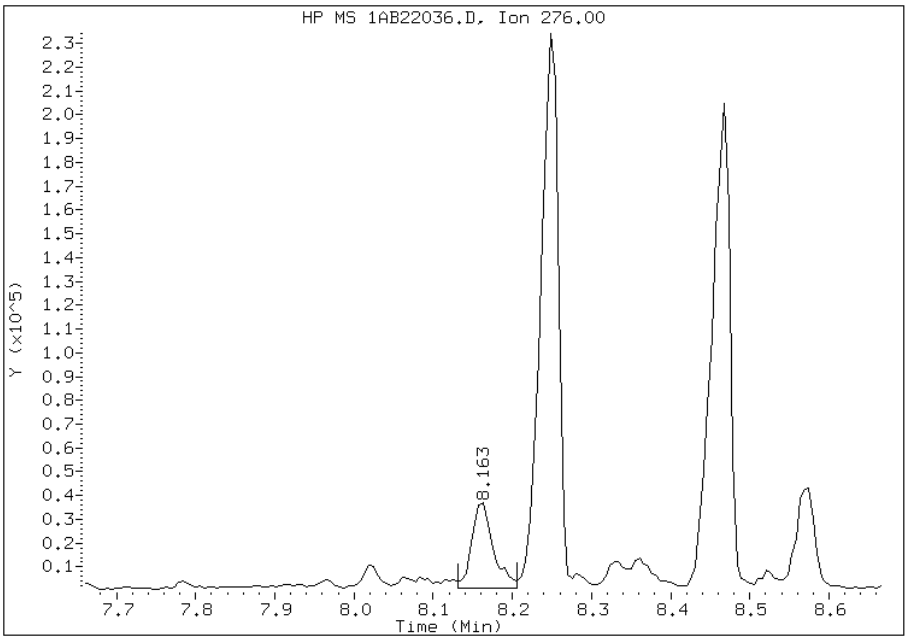
Processing Integration Results

RT: 8.16

Response: 67212

Amount: 3

Conc: 195



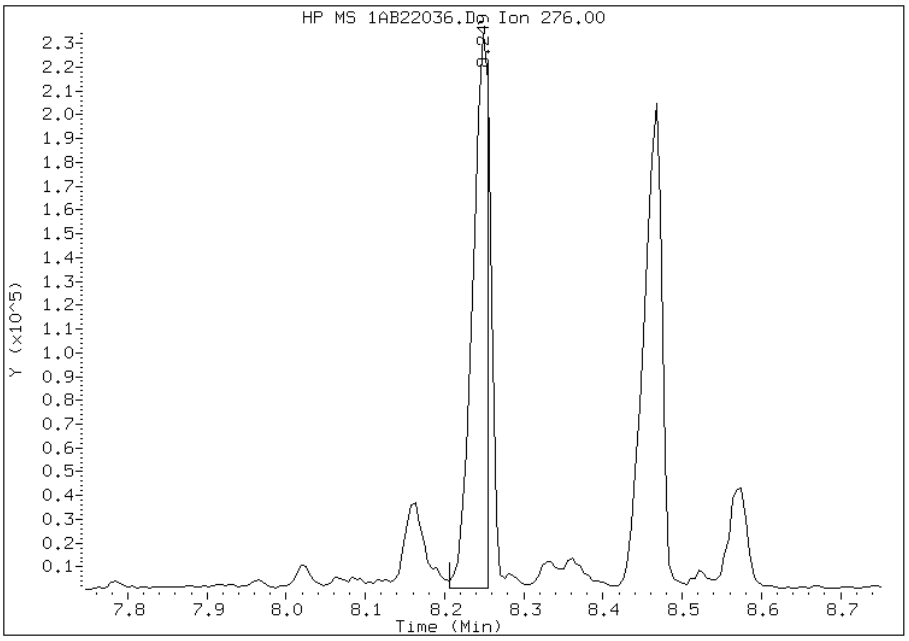
Manual Integration Results

RT: 8.25

Response: 319055

Amount: 13

Conc: 926



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: Unamed Tributary Bank-B | Lab Sample ID: 680-87496-73

Matrix: Solid | Lab File ID: 1AB22037.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 13:40

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.48(g) | Date Analyzed: 02/22/2013 19:41

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

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

% Moisture: 16.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	44	J	46	5.8
120-12-7	Anthracene	46		9.7	4.9
56-55-3	Benzo[a]anthracene	200		9.3	4.5
50-32-8	Benzo[a]pyrene	160		12	6.0
205-99-2	Benzo[b]fluoranthene	210		14	7.1
191-24-2	Benzo[g,h,i]perylene	130		23	5.1
207-08-9	Benzo[k]fluoranthene	100		9.3	4.2
218-01-9	Chrysene	180		10	5.2
53-70-3	Dibenz(a,h)anthracene	41		23	4.8
206-44-0	Fluoranthene	230		23	4.6
86-73-7	Fluorene	7.4	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	130		23	8.2
90-12-0	1-Methylnaphthalene	30	J	46	5.1
91-57-6	2-Methylnaphthalene	45	J	46	8.2
91-20-3	Naphthalene	48		46	5.1
85-01-8	Phenanthrene	120		9.3	4.5
129-00-0	Pyrene	250		23	4.3

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\1A022213_IC.b\1AB22037.D
Lab Smp Id: 680-87496-A-73-A Client Smp ID: Unamed Tributary Ba
Inj Date : 22-FEB-2013 19:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-73-a
Misc Info : 680-87496-A-73-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 37
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	15.480	Weight Extracted
M	16.444	% 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	2.402	2.397	(1.000)	1051403	40.0000	
* 6 Acenaphthene-d10	164	3.428	3.417	(1.000)	843007	40.0000	
* 10 Phenanthrene-d10	188	4.373	4.352	(1.000)	1183671	40.0000	
$ 14 o-Terphenyl	230	4.646	4.635	(1.062)	110285	6.40311	495.0401
* 18 Chrysene-d12	240	6.393	6.366	(1.000)	822562	40.0000	(H)
* 23 Perylene-d12	264	7.498	7.456	(1.000)	1222300	40.0000	(H)
2 Naphthalene	128	2.413	2.402	(1.004)	15789	0.62321	48.1820
3 2-Methylnaphthalene	141	2.813	2.808	(1.171)	7559	0.57796	44.6833
4 1-Methylnaphthalene	142	2.872	2.861	(1.196)	5600	0.38451	29.7271
5 Acenaphthylene	152	3.342	3.332	(0.975)	17922	0.56937	44.0197
9 Fluorene	166	3.754	3.743	(1.095)	2212	0.09636	7.4498
11 Phenanthrene	178	4.384	4.368	(1.002)	44551	1.51420	117.0667
12 Anthracene	178	4.416	4.400	(1.010)	16842	0.58931	45.5611
13 Carbazole	167	4.576	4.555	(1.046)	6605	0.26181	20.2409

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.244	5.228	(1.199)	86926	2.95487	228.4479
16 Pyrene	202	5.415	5.394	(0.847)	77273	3.20277	247.6142(H)
17 Benzo(a)anthracene	228	6.387	6.355	(0.999)	63599	2.58942	200.1946(H)
19 Chrysene	228	6.409	6.387	(1.002)	50473	2.29775	177.6445(H)
20 Benzo(b)fluoranthene	252	7.205	7.178	(0.961)	83548	2.69638	208.4637(MH)
21 Benzo(k)fluoranthene	252	7.215	7.199	(0.962)	42030	1.34828	104.2388(MH)
22 Benzo(a)pyrene	252	7.434	7.408	(0.991)	57577	2.02908	156.8731(H)
24 Indeno(1,2,3-cd)pyrene	276	8.220	8.177	(1.096)	39775	1.63387	126.3184(MH)
25 Dibenzo(a,h)anthracene	278	8.230	8.193	(1.098)	13433	0.52952	40.9381(H)
26 Benzo(g,h,i)perylene	276	8.428	8.385	(1.124)	42565	1.64391	127.0943(H)

QC Flag Legend

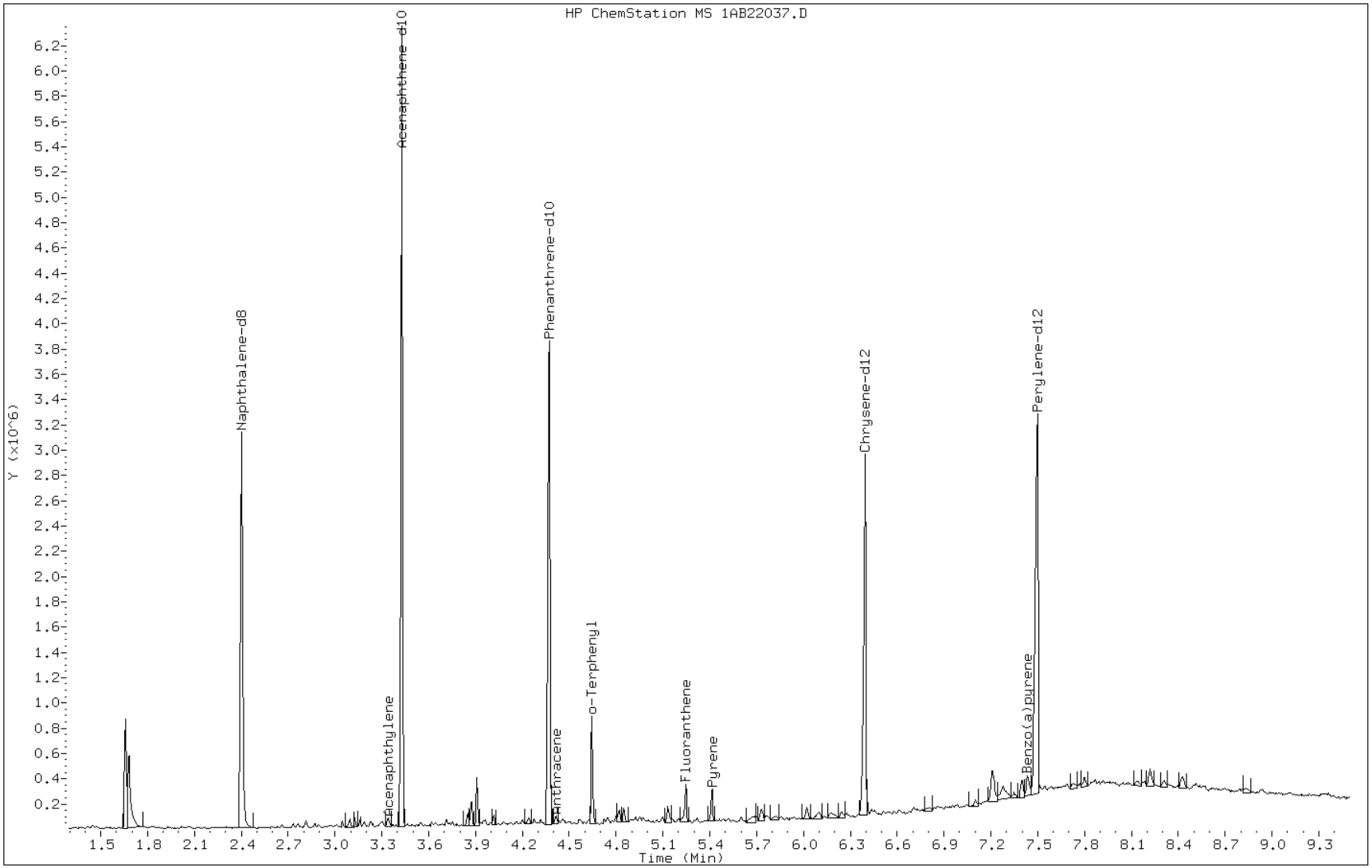
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC



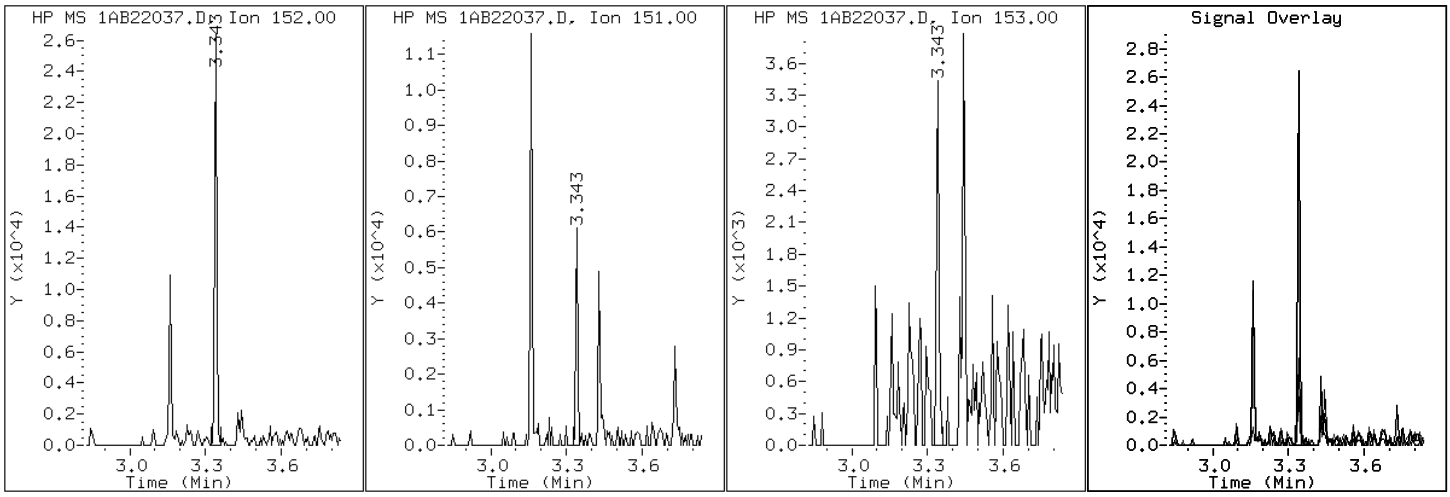
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

5 Acenaphthylene



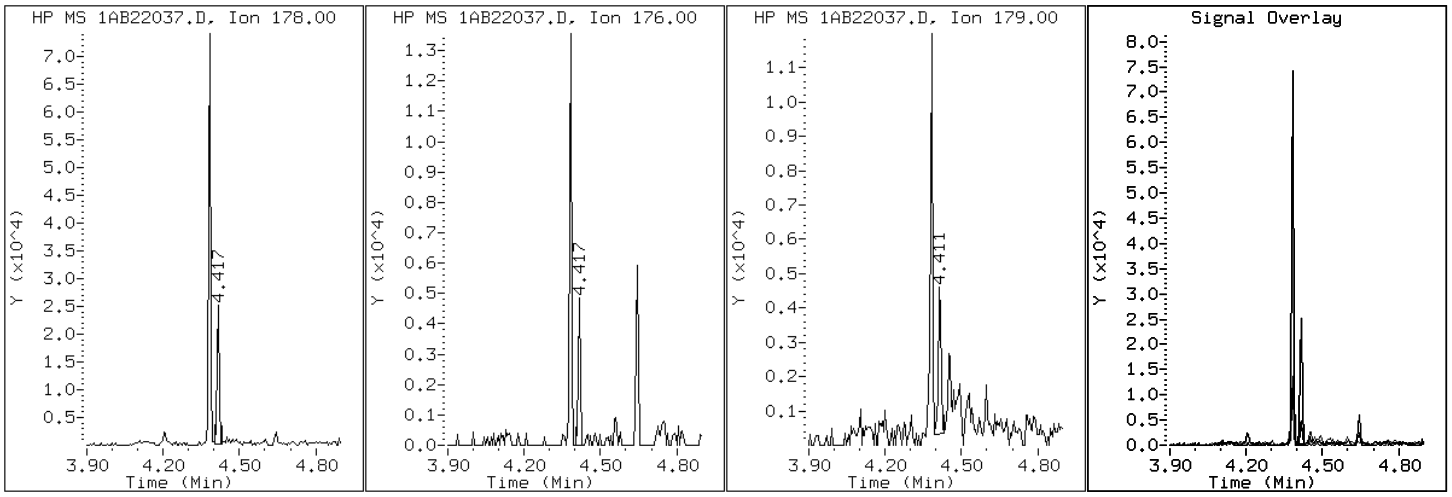
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

12 Anthracene



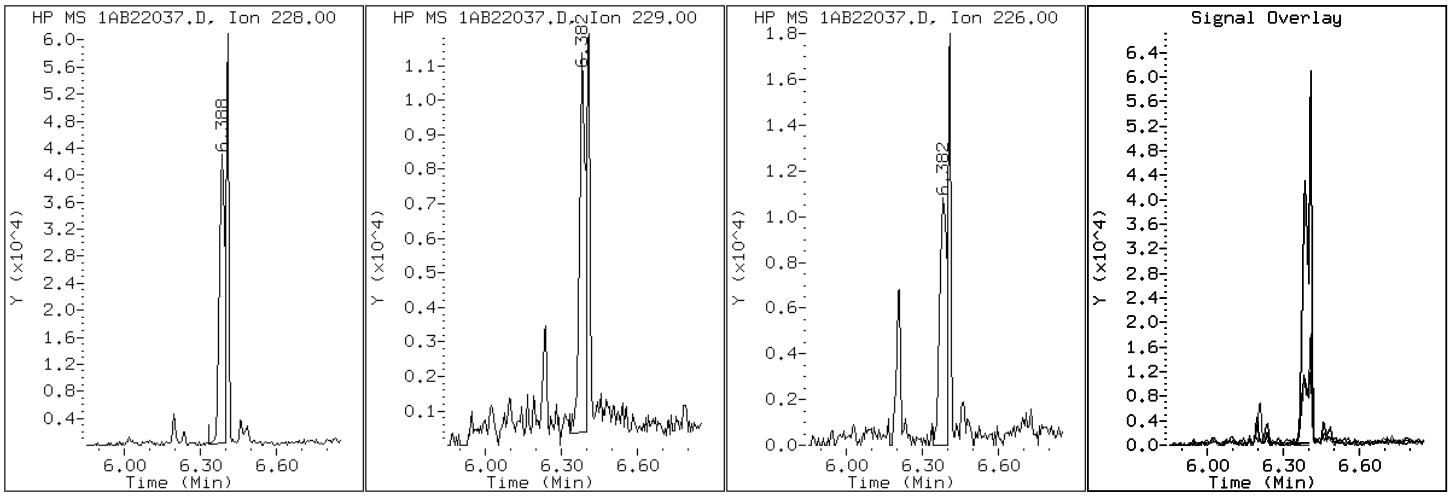
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

17 Benzo(a)anthracene



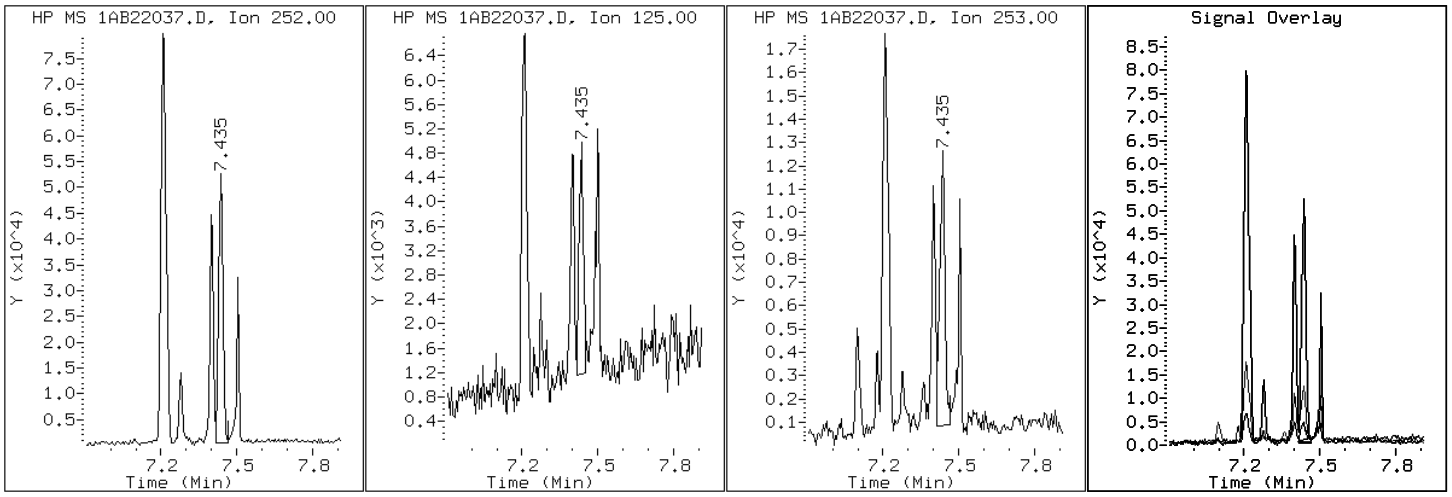
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

22 Benzo(a)pyrene



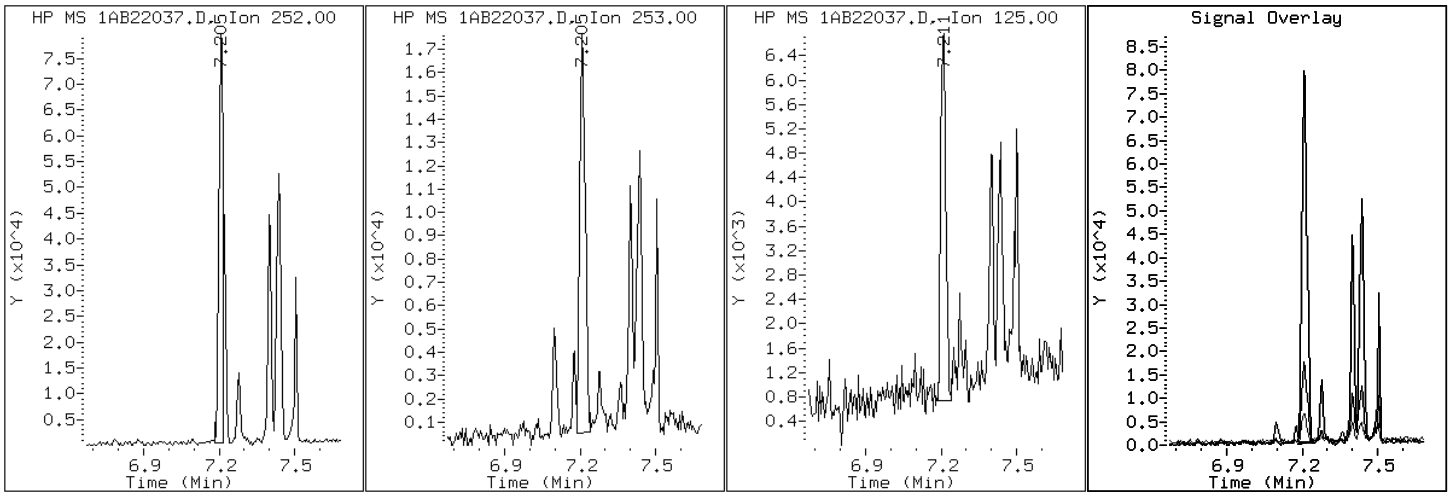
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

20 Benzo(b)fluoranthene



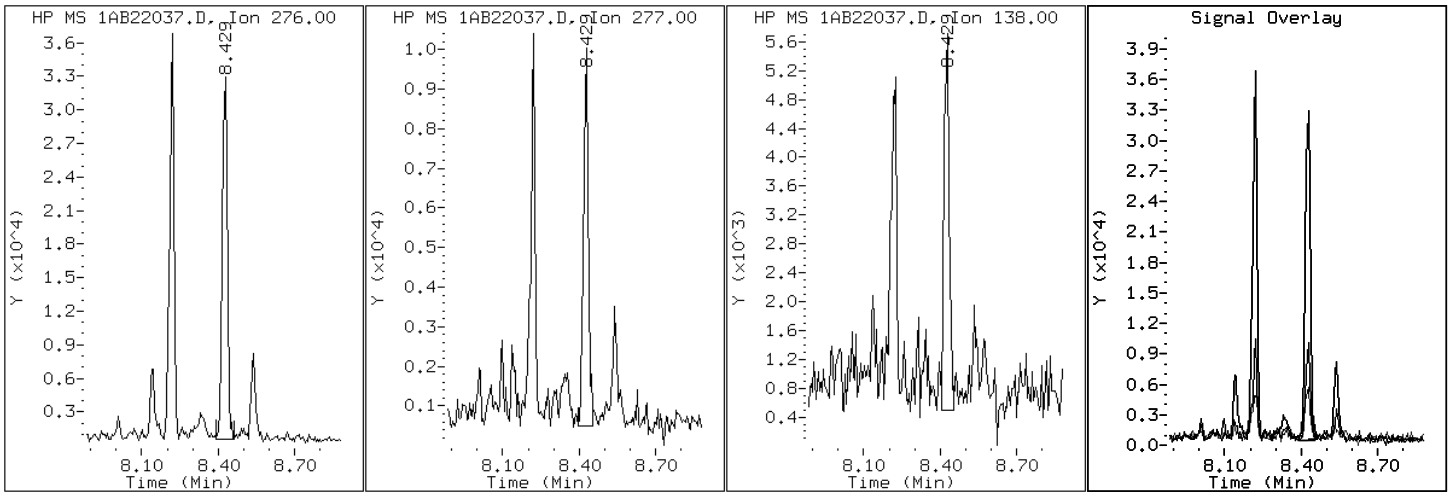
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

26 Benzo(g,h,i)perylene



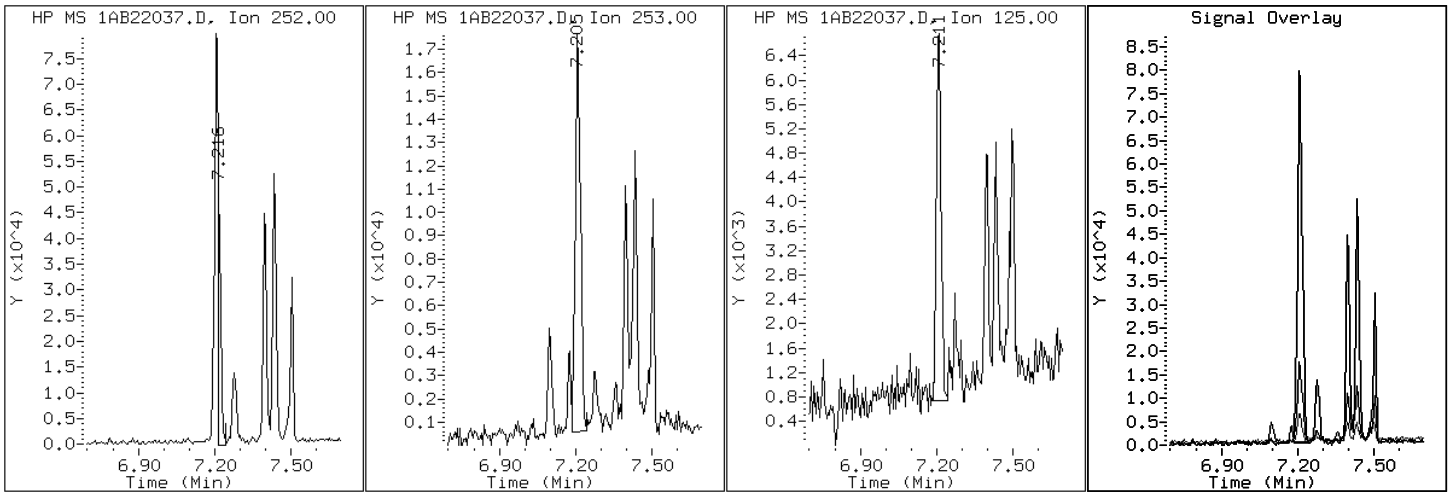
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

21 Benzo(k)fluoranthene



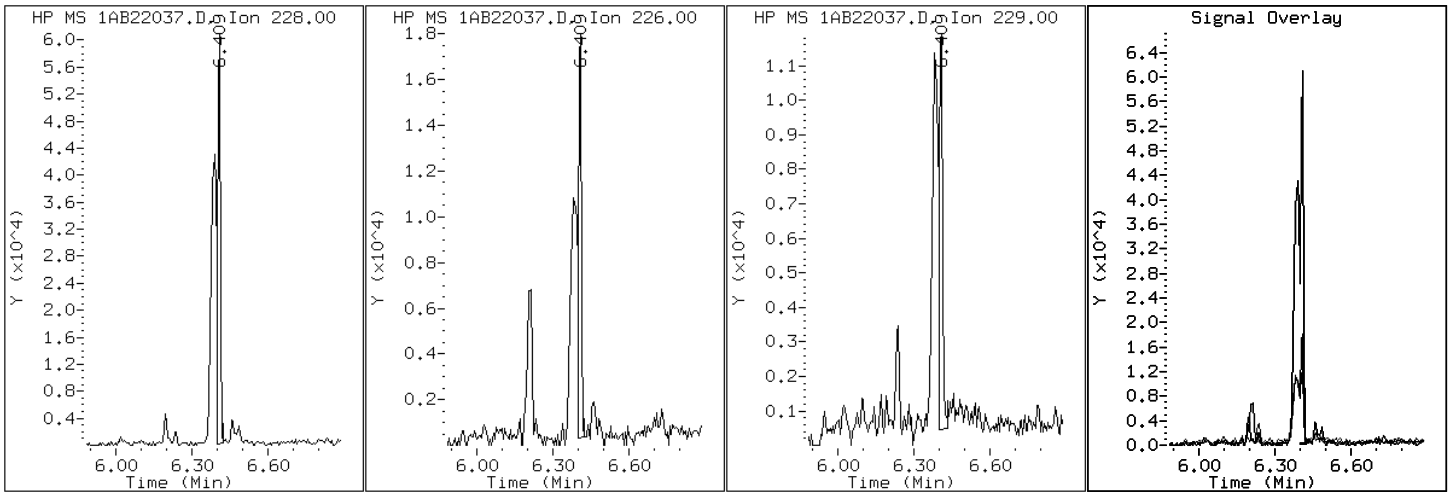
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

19 Chrysene



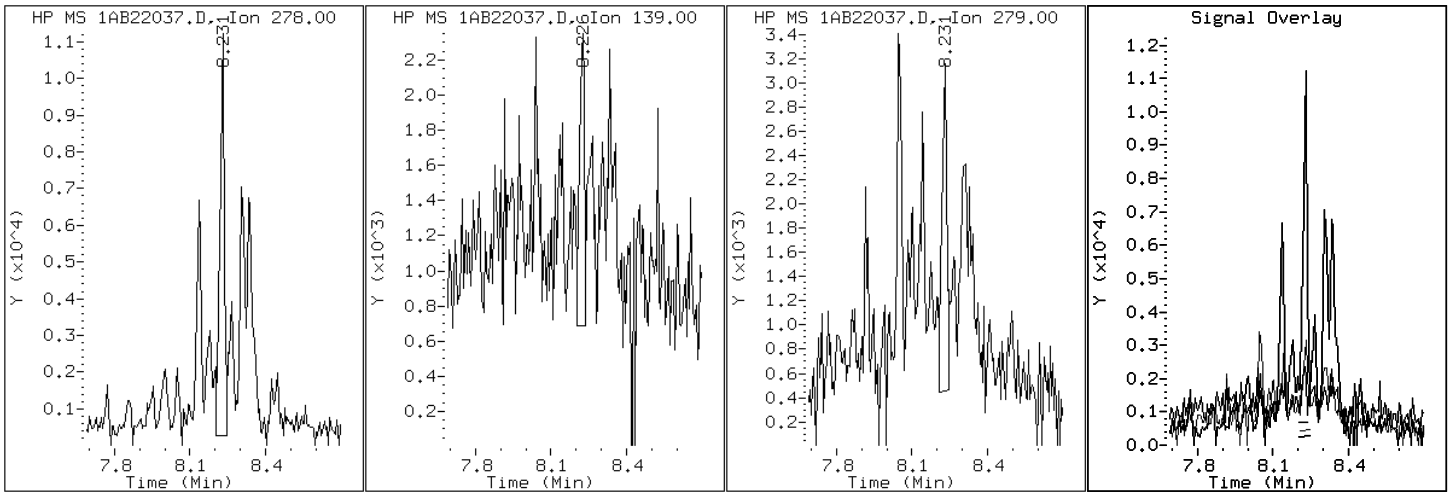
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

25 Dibenzo(a,h)anthracene



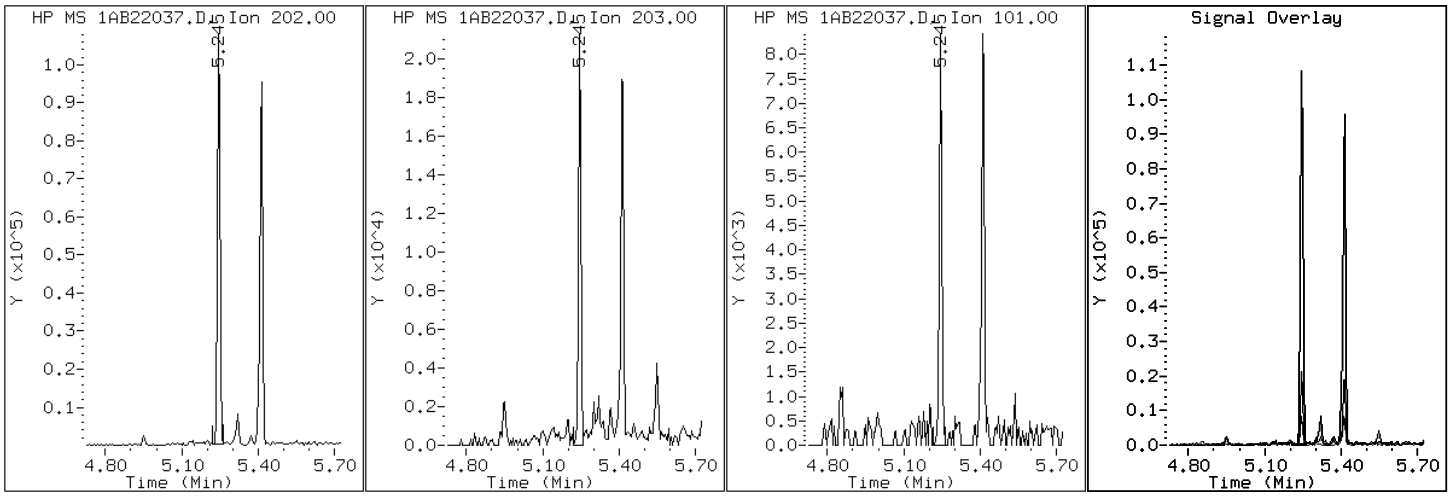
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

15 Fluoranthene



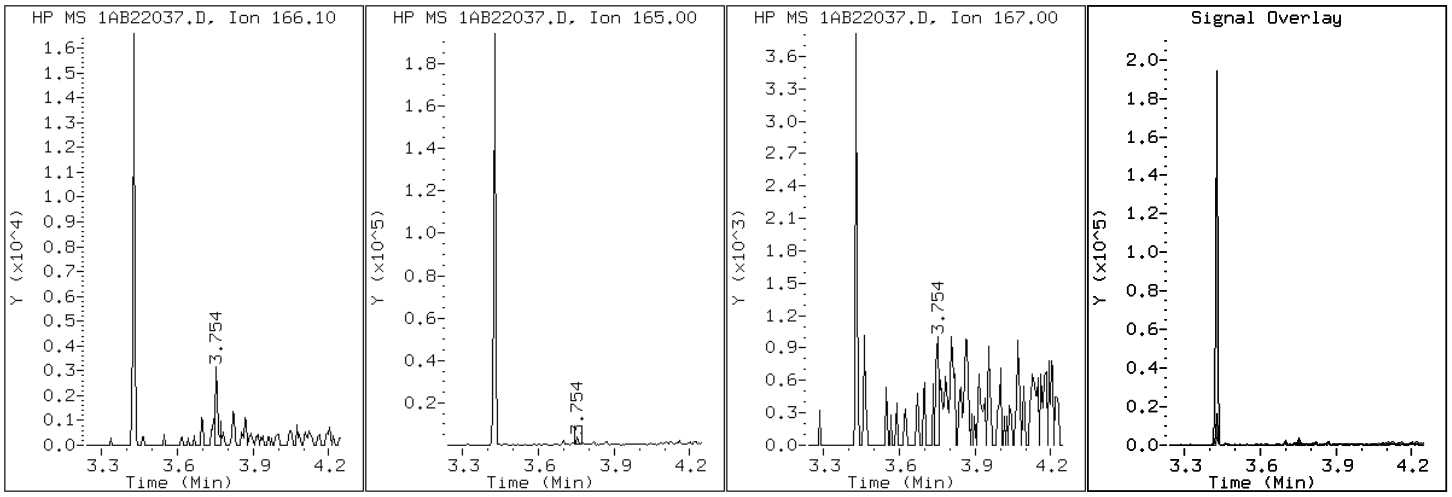
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

9 Fluorene



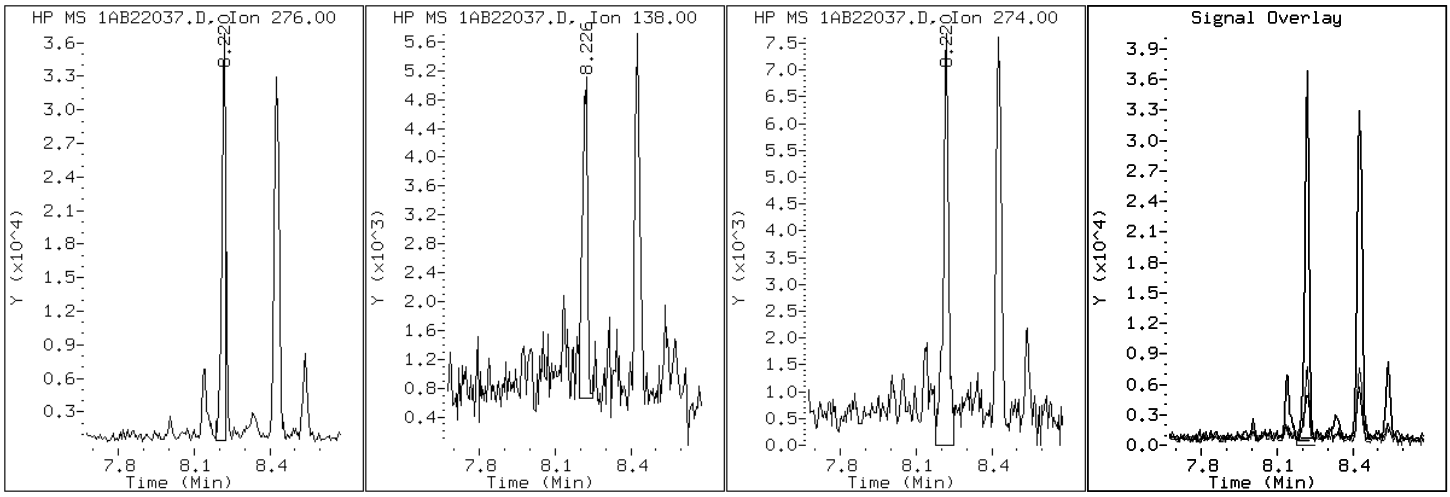
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

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



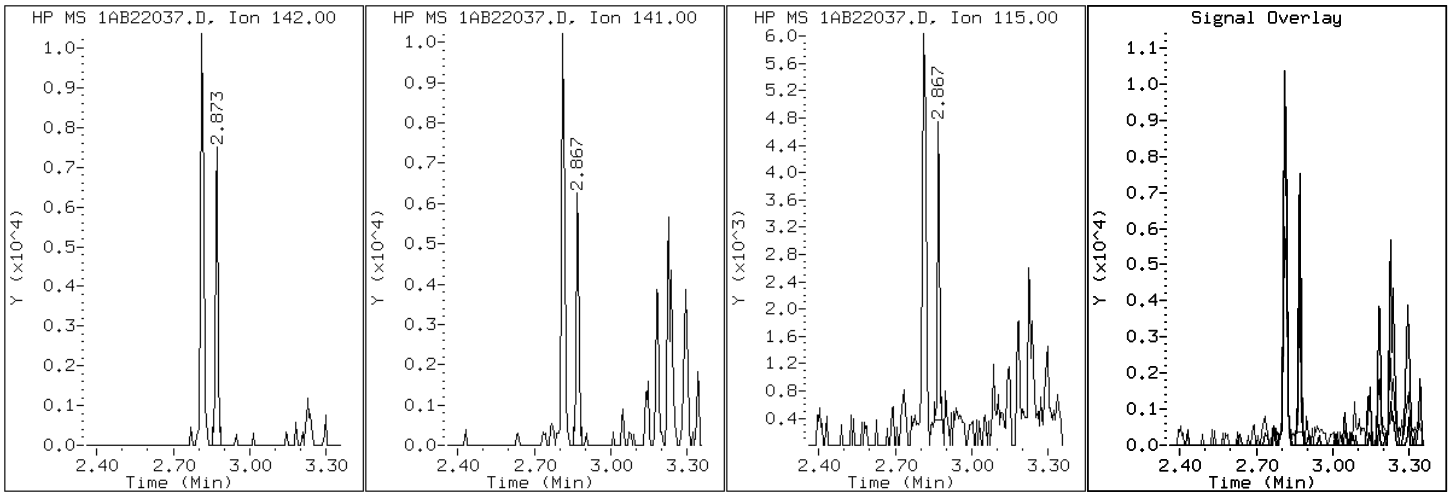
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

4 1-Methylnaphthalene



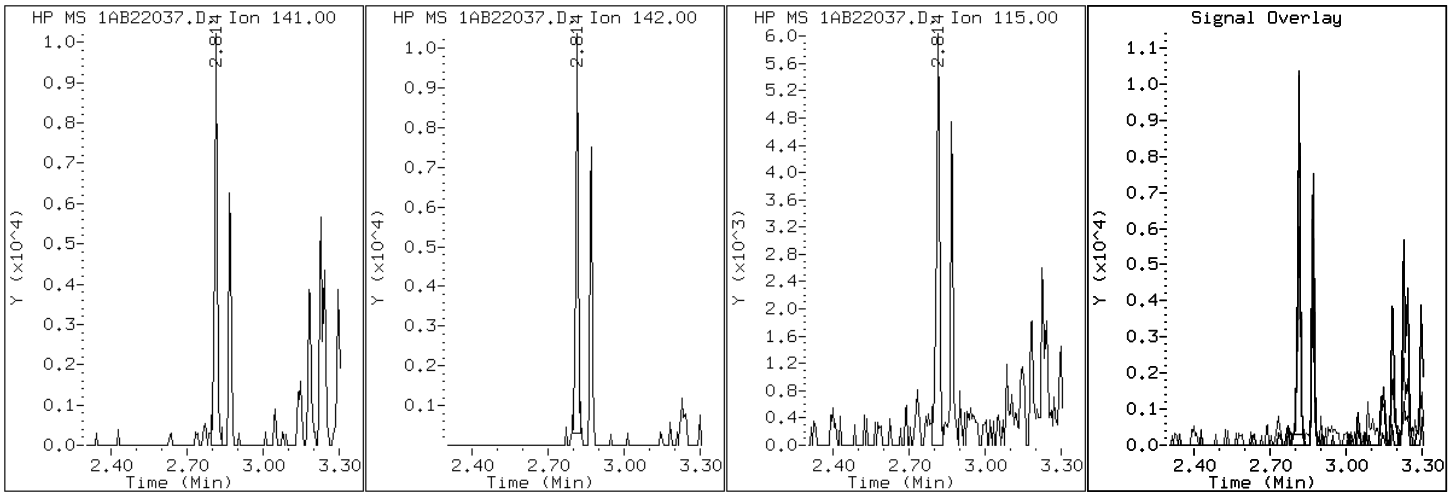
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

3 2-Methylnaphthalene



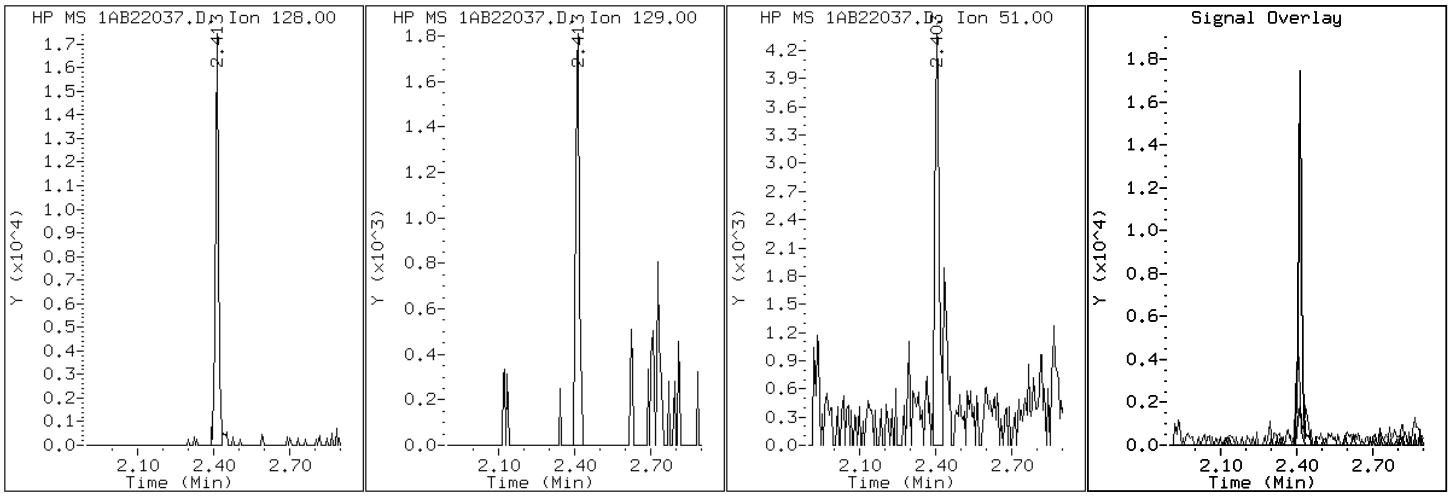
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

2 Naphthalene



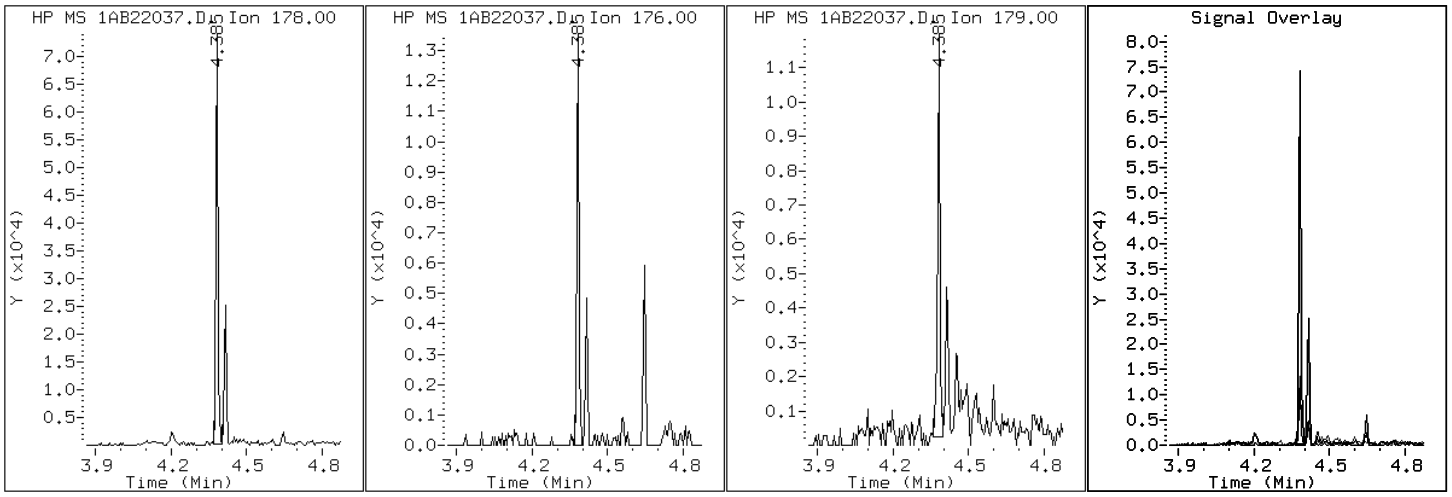
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

11 Phenanthrene



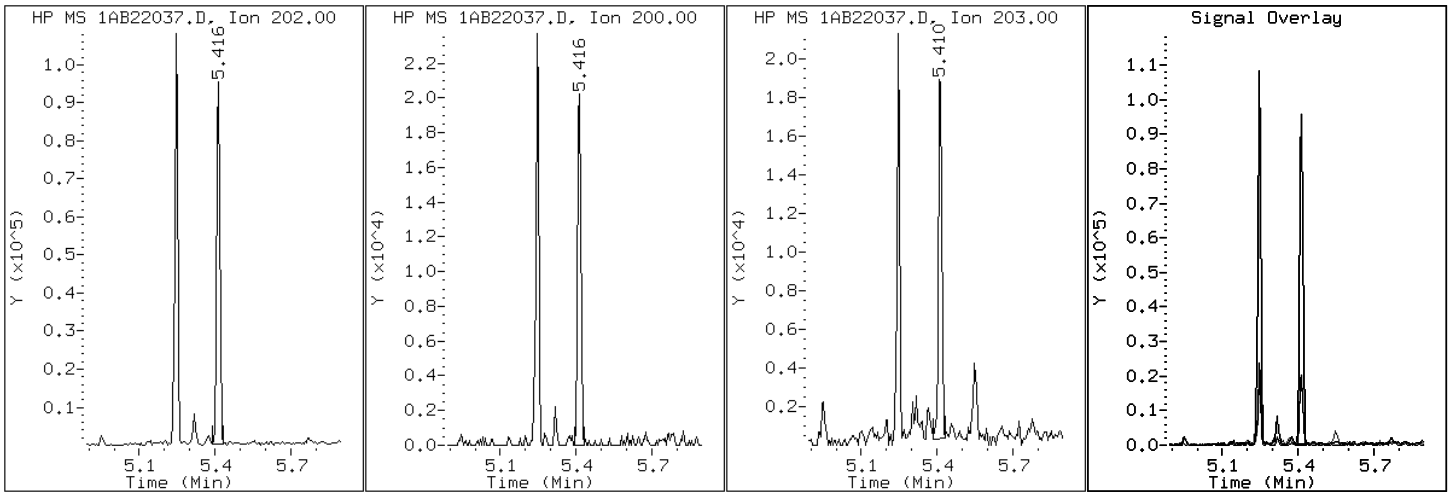
Data File: 1AB22037.D

Date: 22-FEB-2013 19:41

Client ID: Unamed Tributary Ba Instrument: BSMA5973.i

Sample Info: 680-87496-a-73-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22037.D
Inj. Date and Time: 22-FEB-2013 19:41
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Ba
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

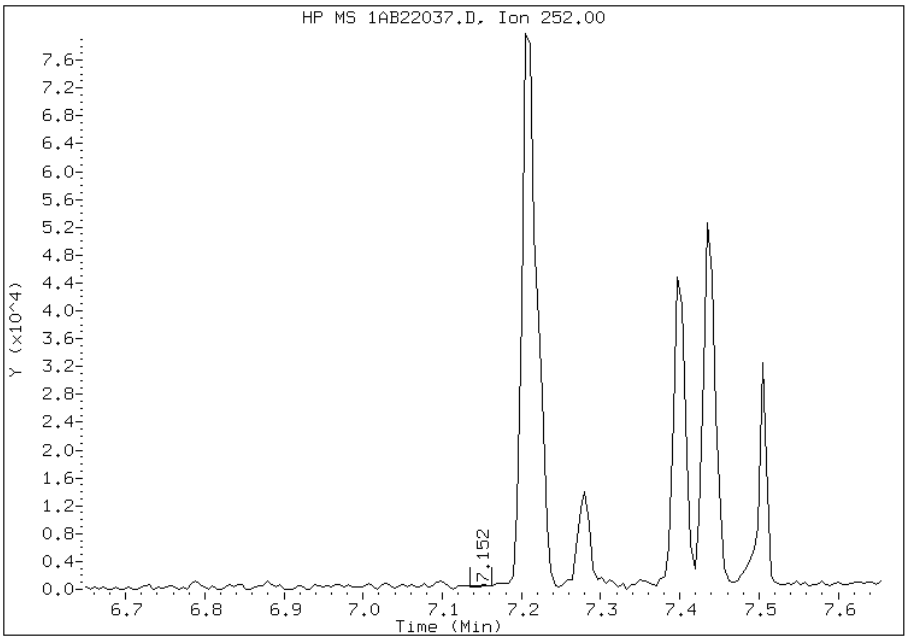
Processing Integration Results

RT: 7.15

Response: 136

Amount: 0

Conc: 0



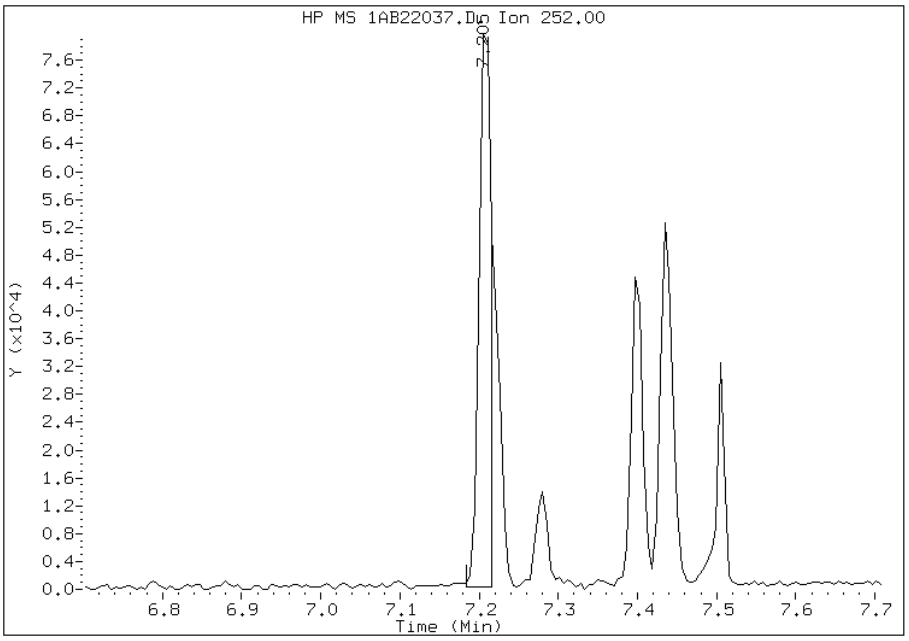
Manual Integration Results

RT: 7.21

Response: 83548

Amount: 3

Conc: 208



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22037.D
Inj. Date and Time: 22-FEB-2013 19:41
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Ba
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

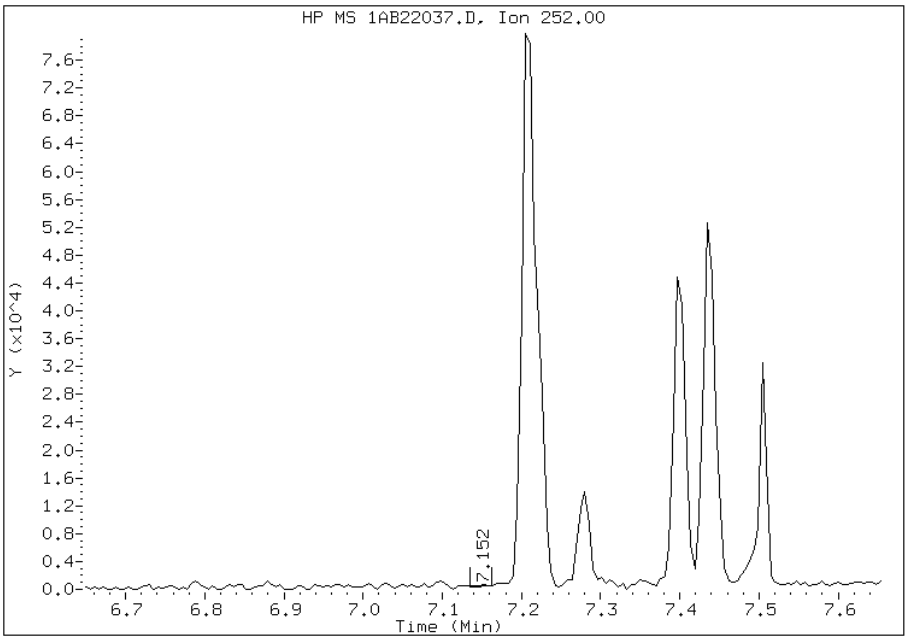
Processing Integration Results

RT: 7.15

Response: 136

Amount: 0

Conc: 0



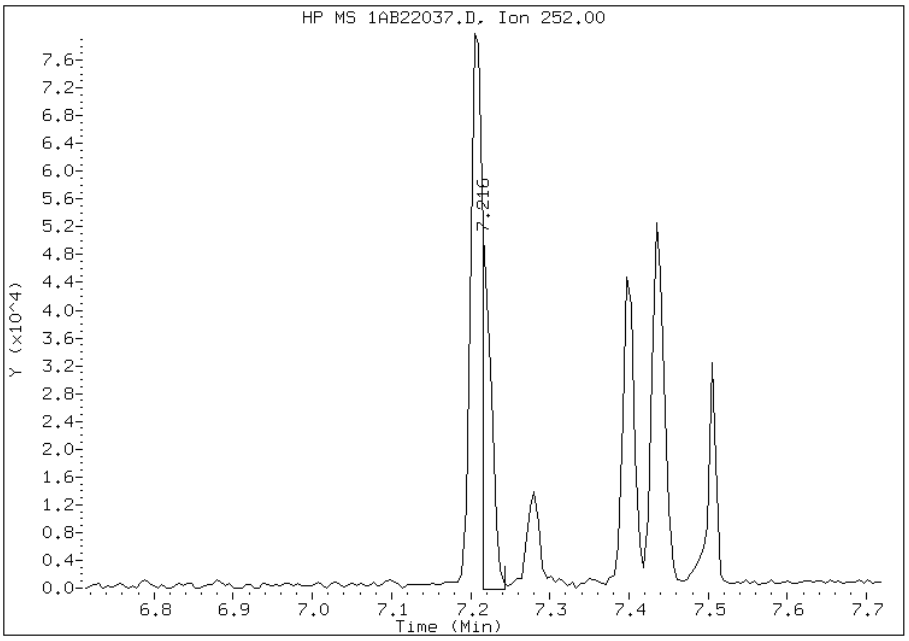
Manual Integration Results

RT: 7.22

Response: 42030

Amount: 1

Conc: 104



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22037.D
Inj. Date and Time: 22-FEB-2013 19:41
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Ba
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

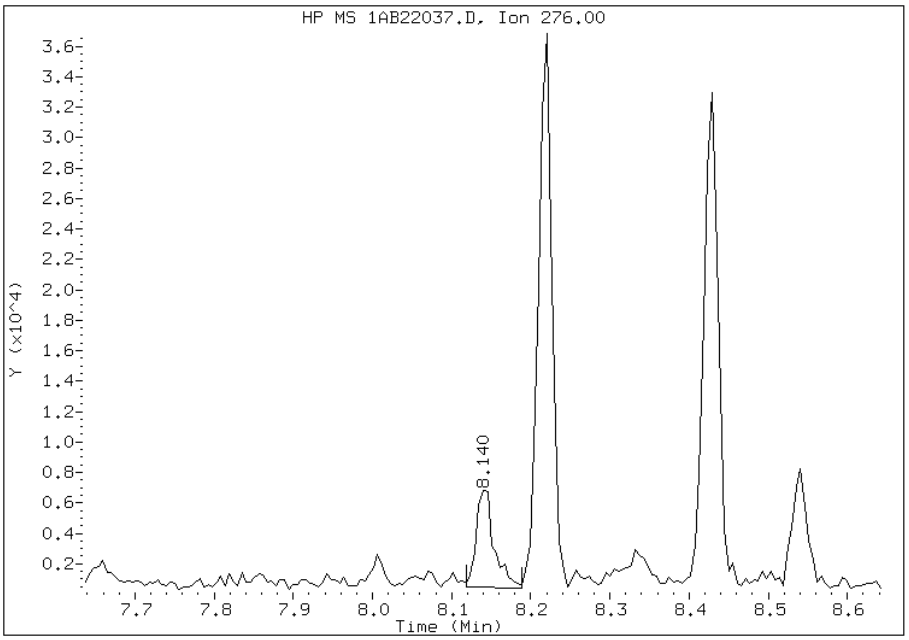
Processing Integration Results

RT: 8.14

Response: 9857

Amount: 0

Conc: 31



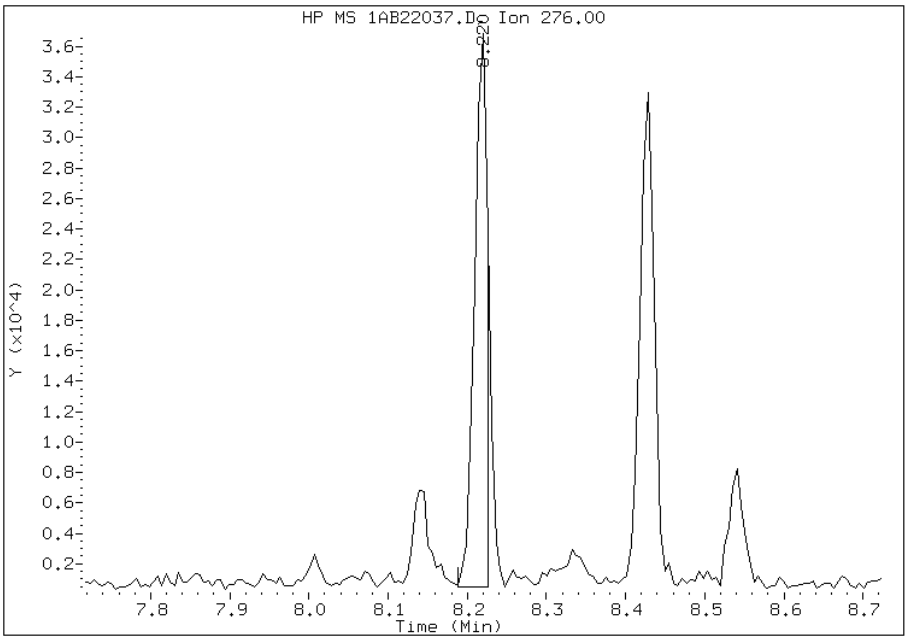
Manual Integration Results

RT: 8.22

Response: 39775

Amount: 2

Conc: 126



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: Unamed Tributary Grab-B | Lab Sample ID: 680-87496-74

Matrix: Solid | Lab File ID: 1AB22038.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 13:50

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.43(g) | Date Analyzed: 02/22/2013 19:56

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

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

% Moisture: 32.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	41	J	58	7.2
120-12-7	Anthracene	68		12	6.0
56-55-3	Benzo[a]anthracene	180		12	5.6
50-32-8	Benzo[a]pyrene	170		15	7.5
205-99-2	Benzo[b]fluoranthene	240		18	8.8
191-24-2	Benzo[g,h,i]perylene	140		29	6.3
207-08-9	Benzo[k]fluoranthene	110		12	5.2
218-01-9	Chrysene	250		13	6.5
53-70-3	Dibenz(a,h)anthracene	44		29	5.9
206-44-0	Fluoranthene	340		29	5.8
86-73-7	Fluorene	17	J	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	150		29	10
90-12-0	1-Methylnaphthalene	66		58	6.3
91-57-6	2-Methylnaphthalene	89		58	10
91-20-3	Naphthalene	120		58	6.3
85-01-8	Phenanthrene	230		12	5.6
129-00-0	Pyrene	320		29	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22038.D
Lab Smp Id: 680-87496-A-74-A Client Smp ID: Unamed Tributary Gr
Inj Date : 22-FEB-2013 19:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-74-a
Misc Info : 680-87496-A-74-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.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	15.430	Weight Extracted
M	32.470	% 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	2.401	2.397	(1.000)	1005025	40.0000	
* 6 Acenaphthene-d10	164	3.427	3.417	(1.000)	782334	40.0000	
* 10 Phenanthrene-d10	188	4.373	4.352	(1.000)	1160259	40.0000	
$ 14 o-Terphenyl	230	4.645	4.635	(1.062)	91945	5.44602	522.6572
* 18 Chrysene-d12	240	6.392	6.366	(1.000)	814820	40.0000	(H)
* 23 Perylene-d12	264	7.498	7.456	(1.000)	1180154	40.0000	(H)
2 Naphthalene	128	2.412	2.402	(1.004)	29093	1.20133	115.2922
3 2-Methylnaphthalene	141	2.813	2.808	(1.171)	11546	0.92354	88.6327
4 1-Methylnaphthalene	142	2.871	2.861	(1.196)	9617	0.69079	66.2958
5 Acenaphthylene	152	3.342	3.332	(0.975)	12498	0.42785	41.0609
9 Fluorene	166	3.753	3.743	(1.095)	3857	0.18105	17.3755(Q)
11 Phenanthrene	178	4.383	4.368	(1.002)	68057	2.35980	226.4715
12 Anthracene	178	4.415	4.400	(1.010)	19894	0.71015	68.1534
13 Carbazole	167	4.576	4.555	(1.046)	14882	0.60179	57.7543

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.243	5.228	(1.199)	101083	3.50544	336.4190
16 Pyrene	202	5.414	5.394	(0.847)	80149	3.35354	321.8413(H)
17 Benzo(a)anthracene	228	6.387	6.355	(0.999)	46799	1.92352	184.6011(H)
19 Chrysene	228	6.403	6.387	(1.002)	56343	2.58935	248.5012(H)
20 Benzo(b)fluoranthene	252	7.204	7.178	(0.961)	74015	2.47403	237.4336(MH)
21 Benzo(k)fluoranthene	252	7.215	7.199	(0.962)	33203	1.10316	105.8706(QMH)
22 Benzo(a)pyrene	252	7.434	7.408	(0.991)	48950	1.78666	171.4669(H)
24 Indeno(1,2,3-cd)pyrene	276	8.219	8.177	(1.096)	36555	1.55523	149.2558(MH)
25 Dibenzo(a,h)anthracene	278	8.224	8.193	(1.097)	11154	0.45538	43.7032(H)
26 Benzo(g,h,i)perylene	276	8.427	8.385	(1.124)	37608	1.50433	144.3716(H)

QC Flag Legend

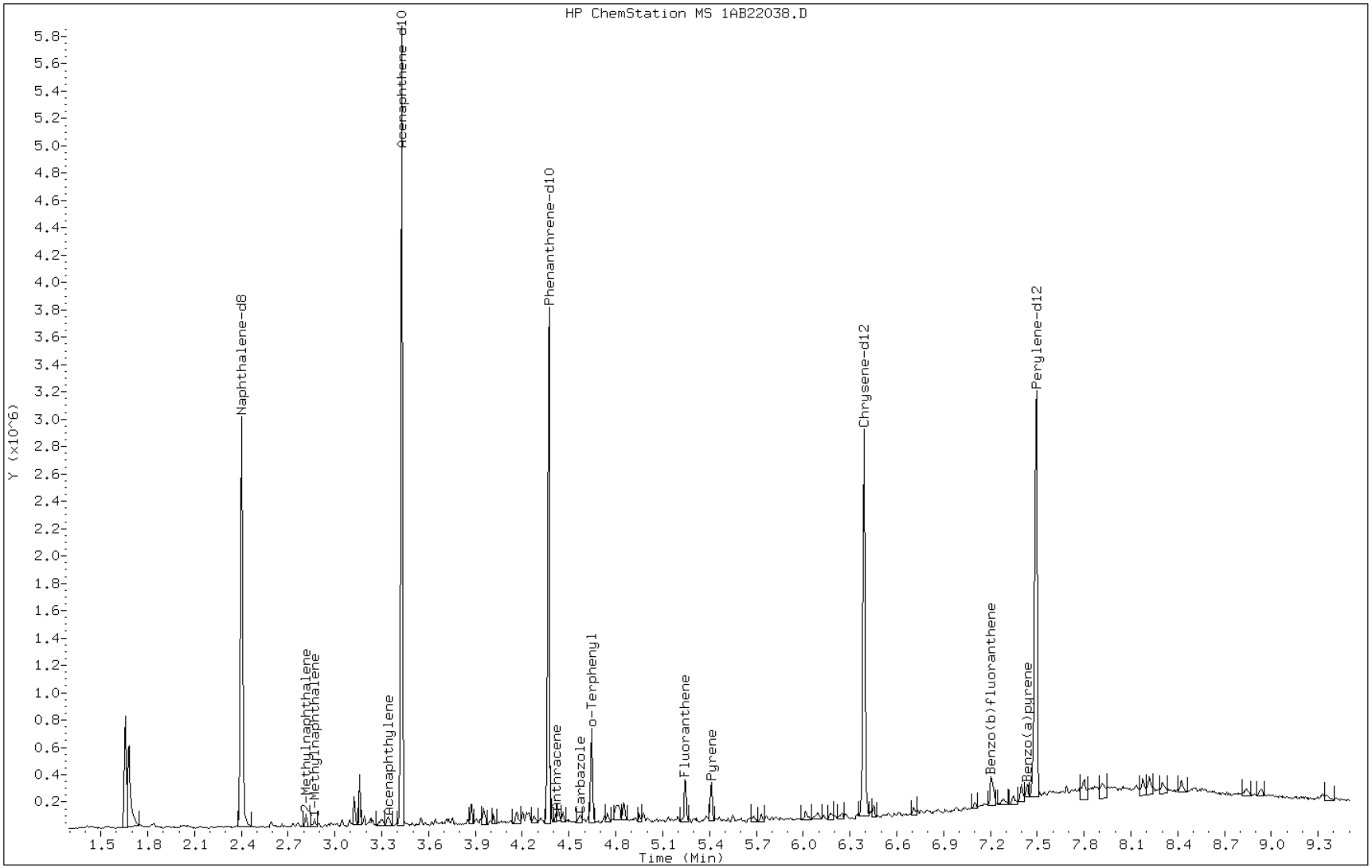
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC



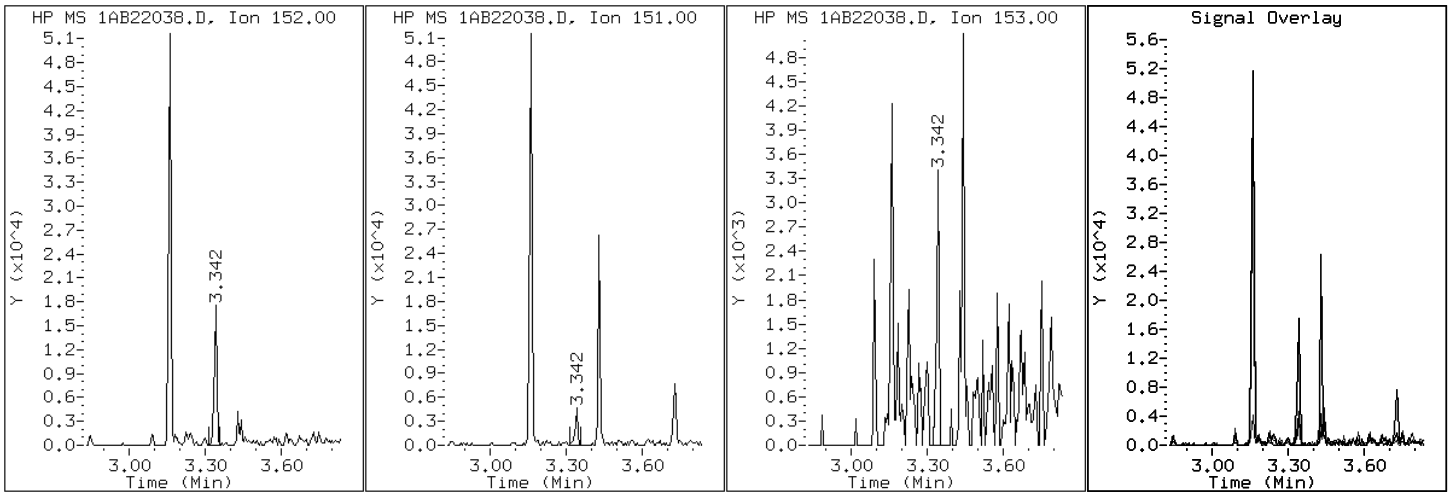
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

5 Acenaphthylene



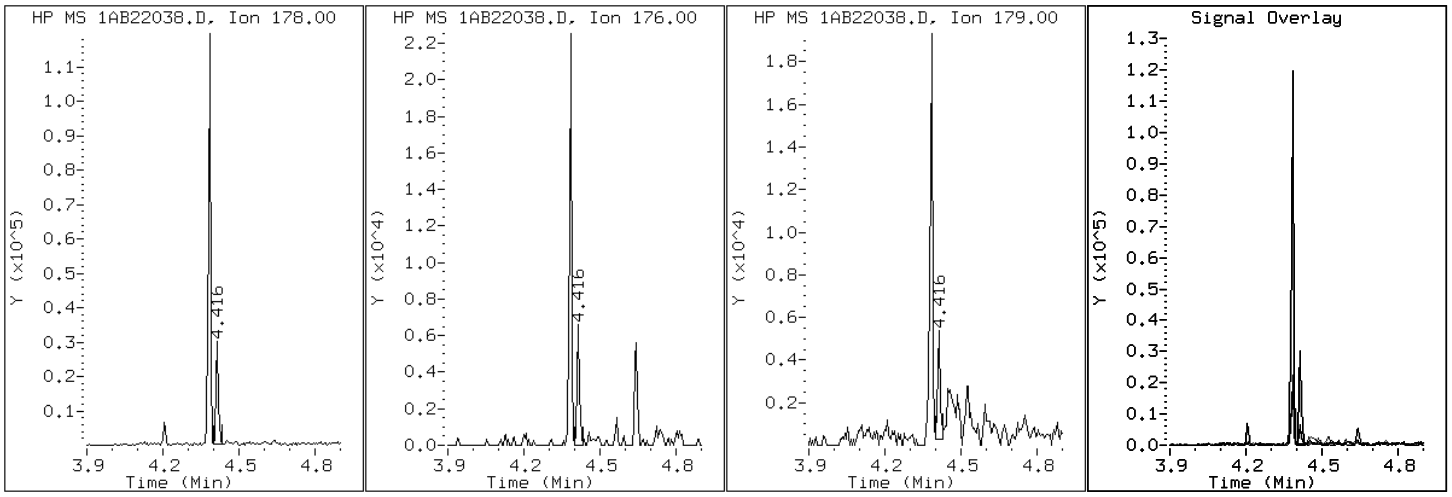
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

12 Anthracene



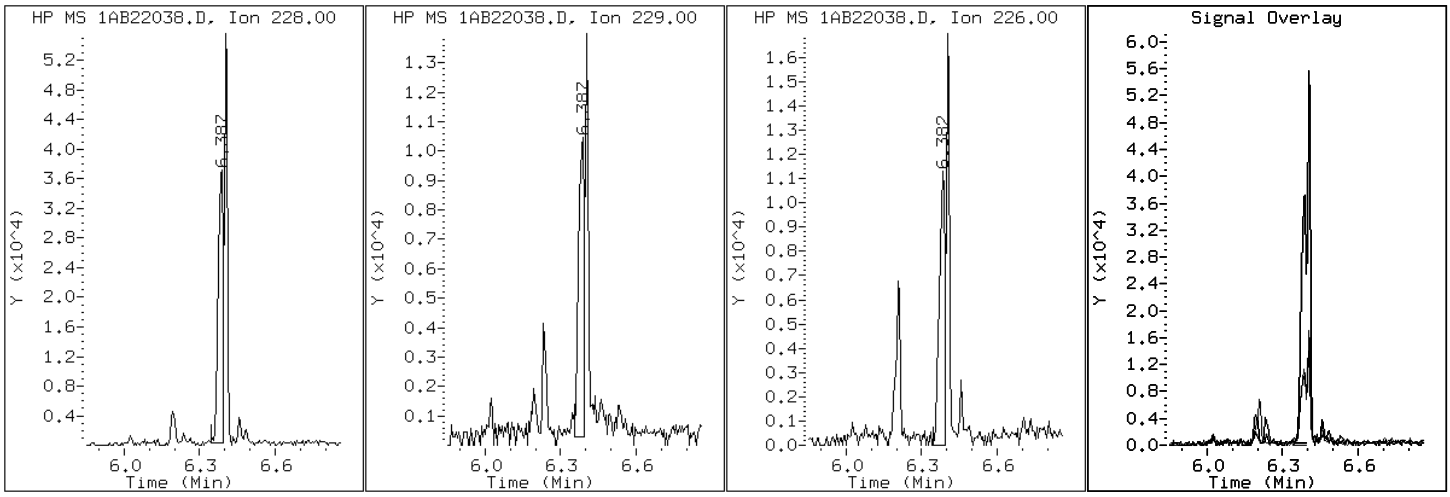
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

17 Benzo(a)anthracene



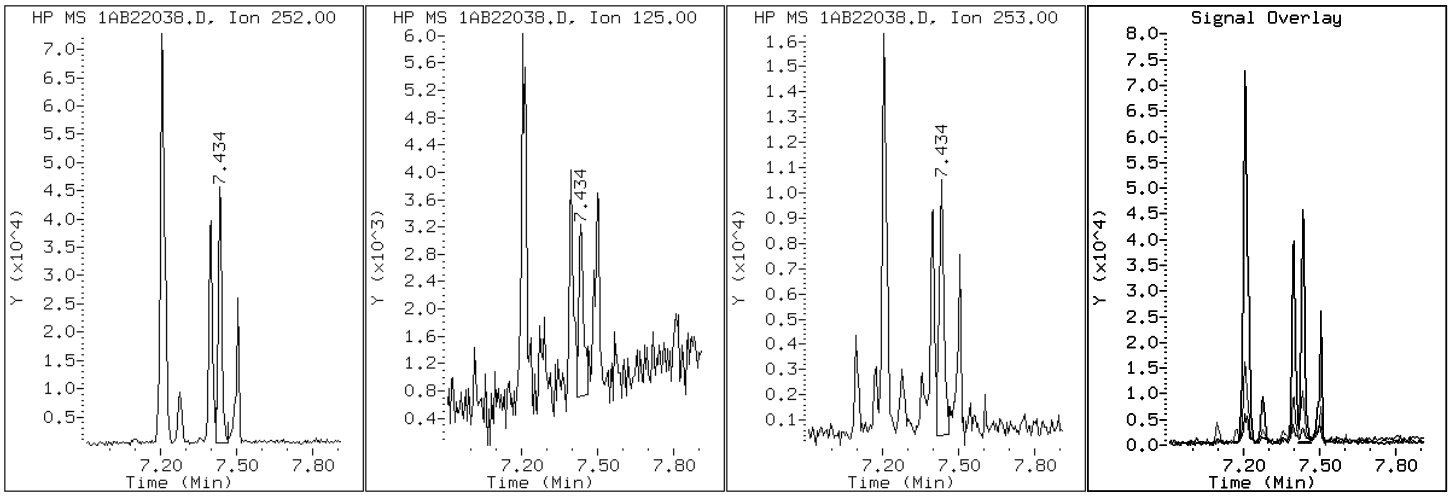
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

22 Benzo(a)pyrene



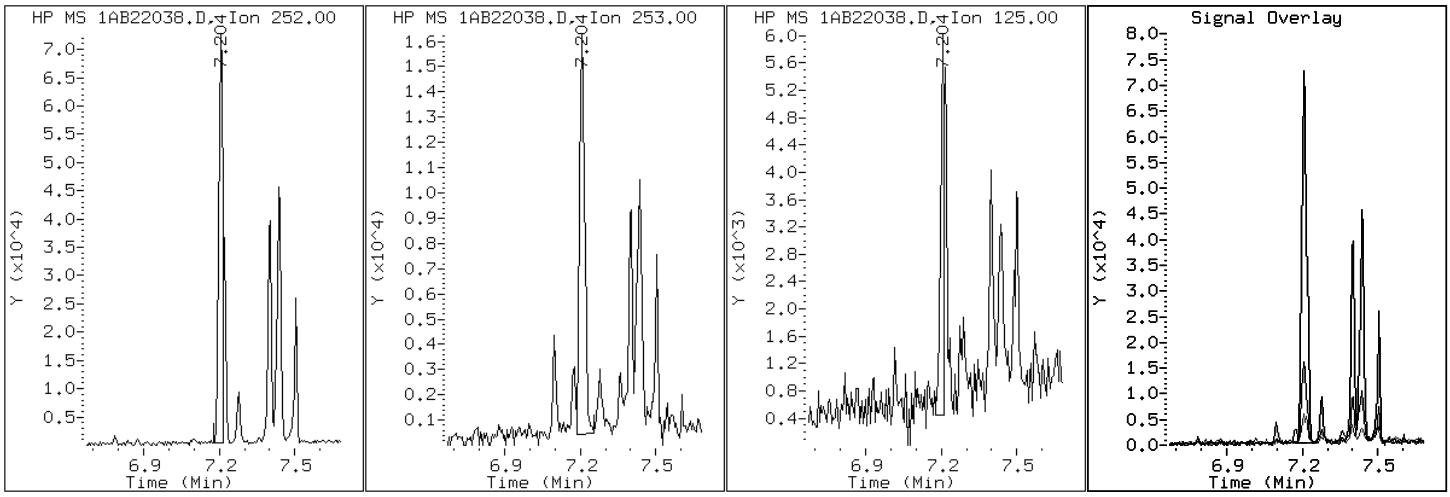
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

20 Benzo(b)fluoranthene



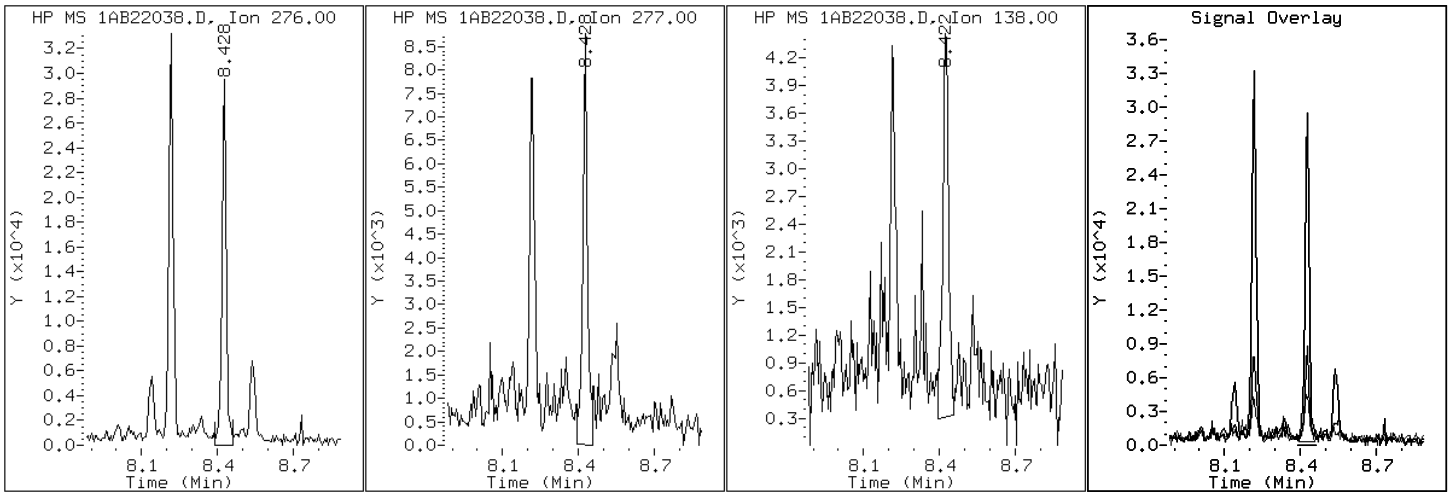
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

26 Benzo(g,h,i)perylene



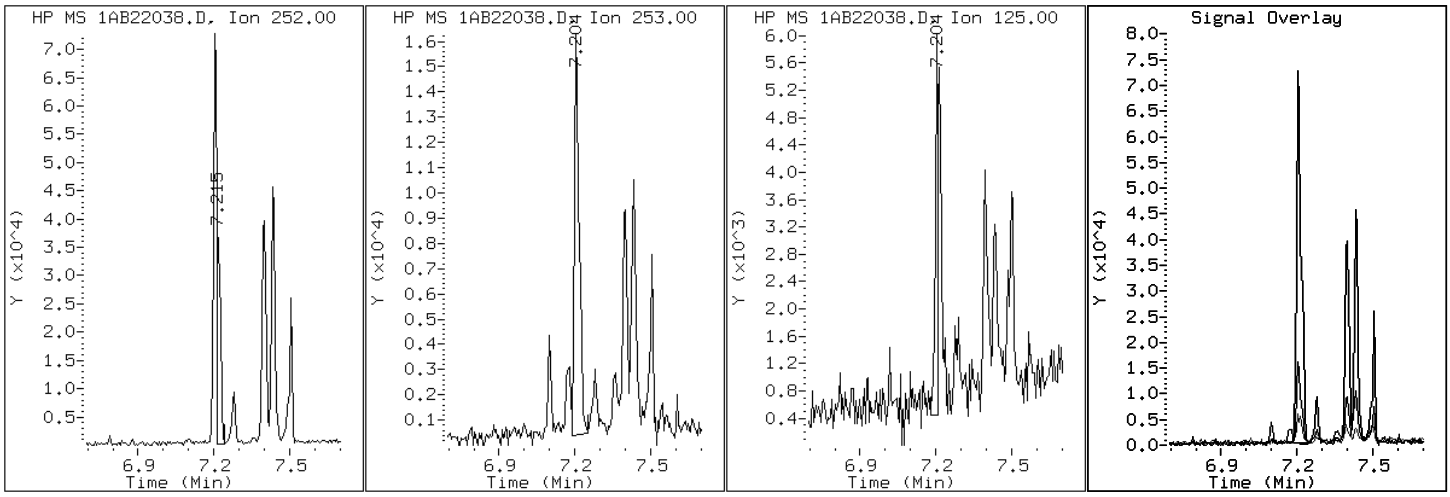
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

21 Benzo(k)fluoranthene



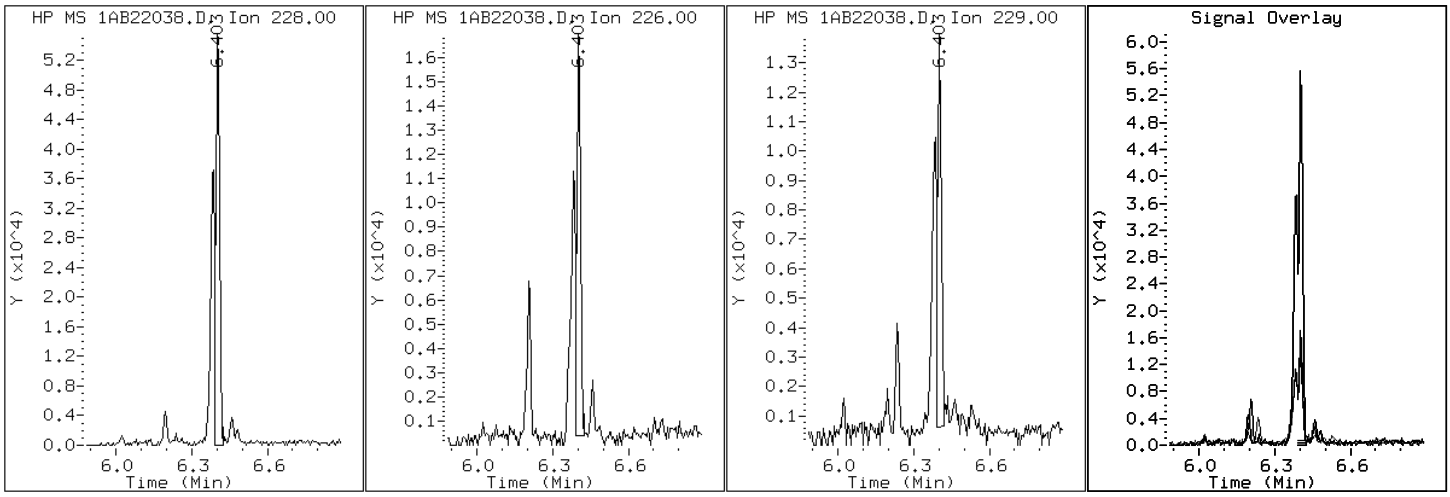
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

19 Chrysene



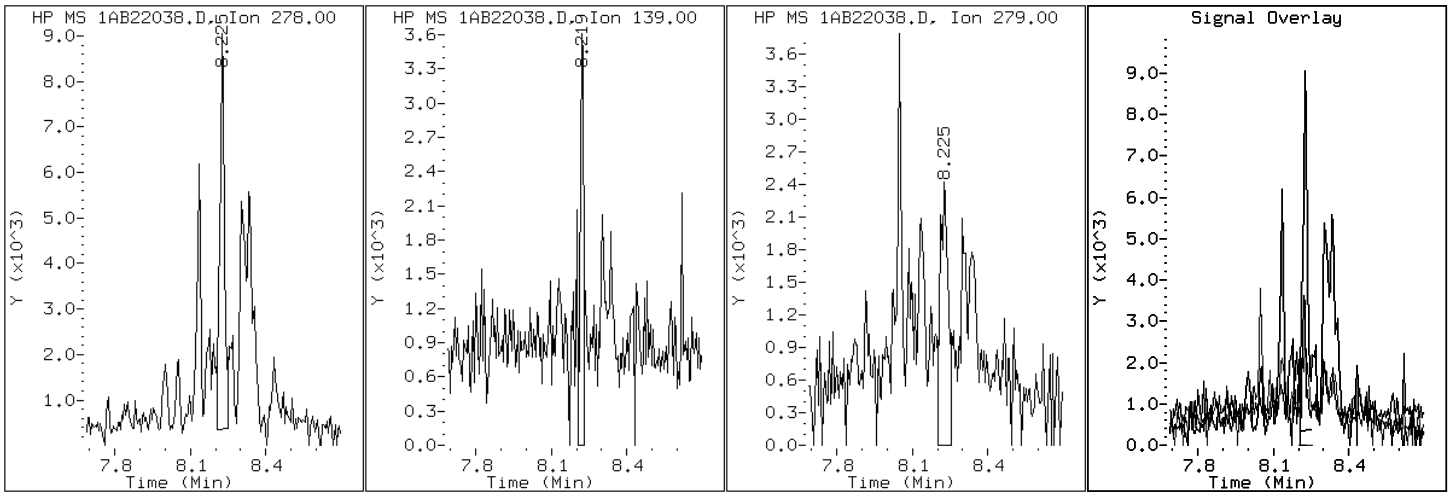
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

25 Dibenzo(a,h)anthracene



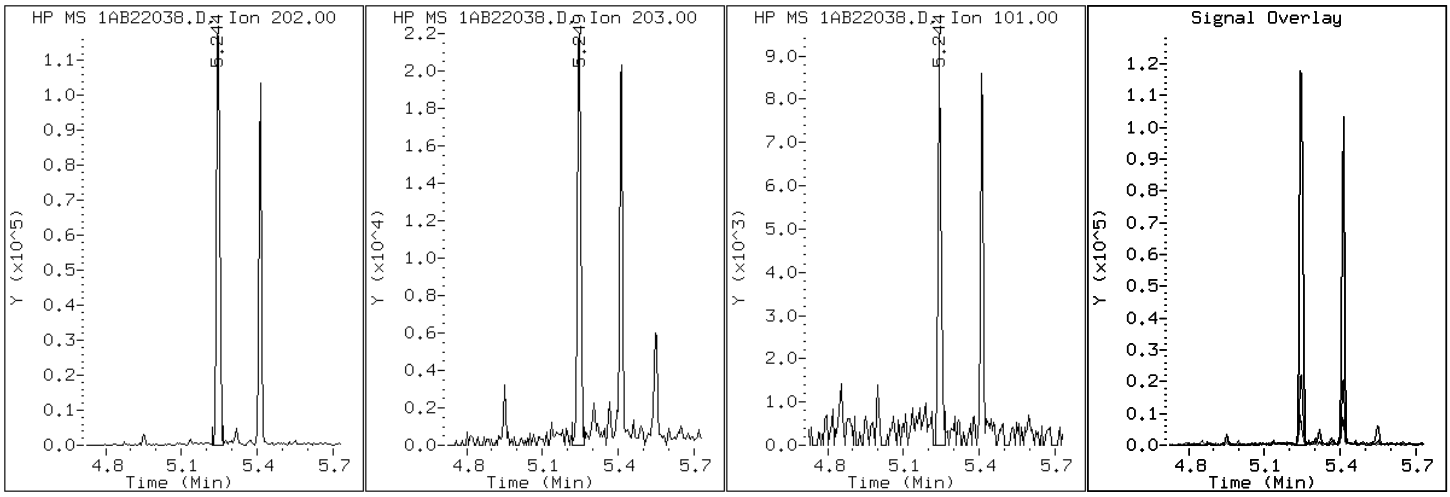
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

15 Fluoranthene



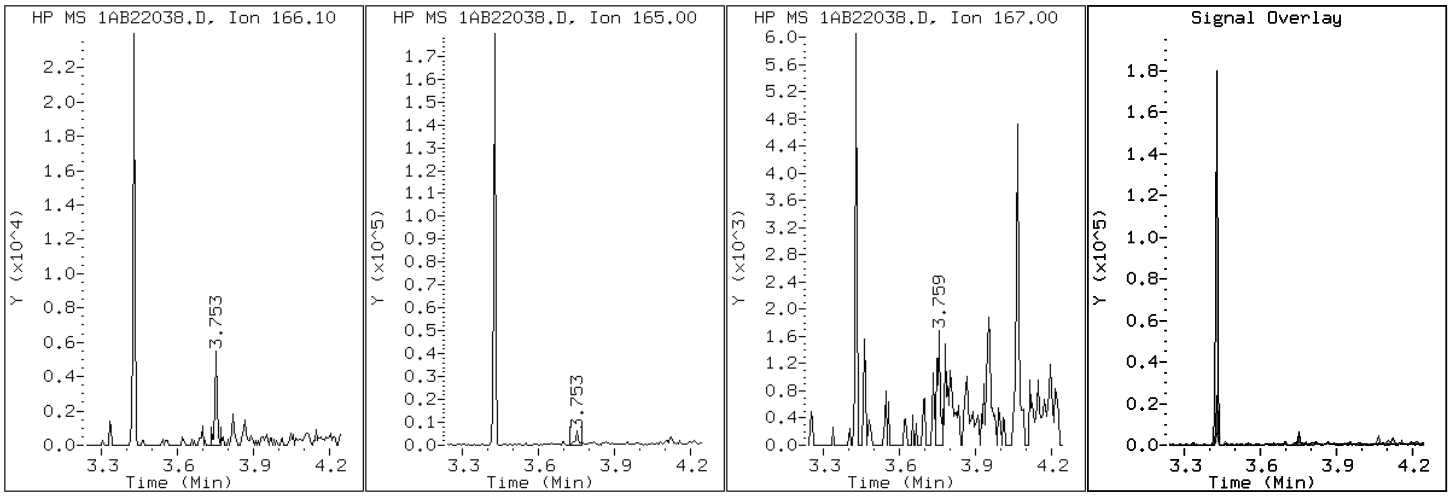
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

9 Fluorene



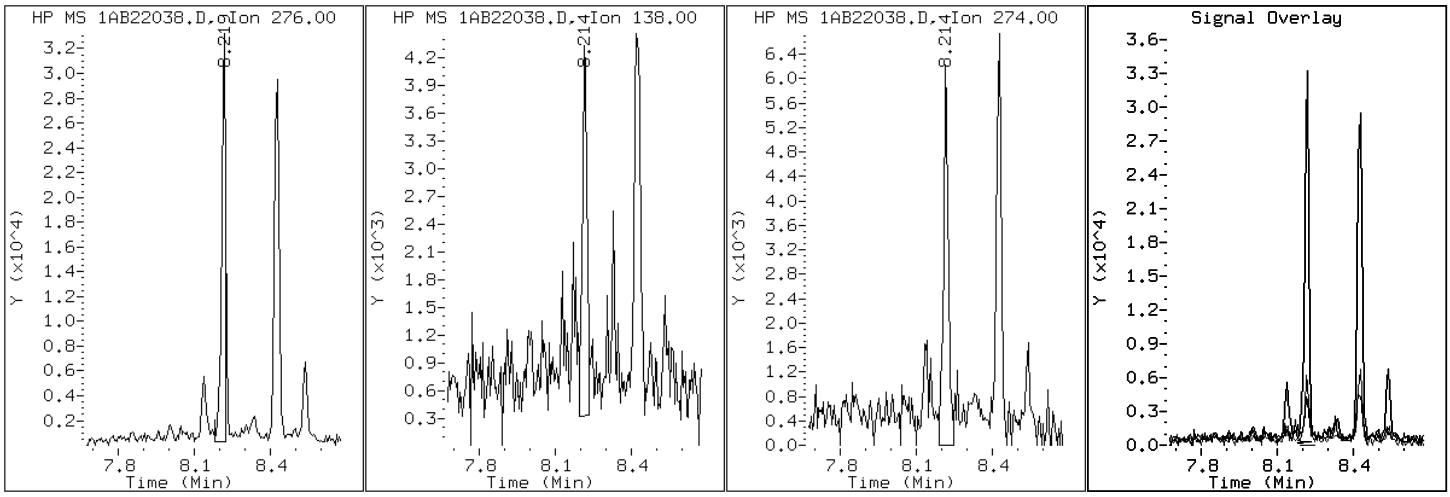
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

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



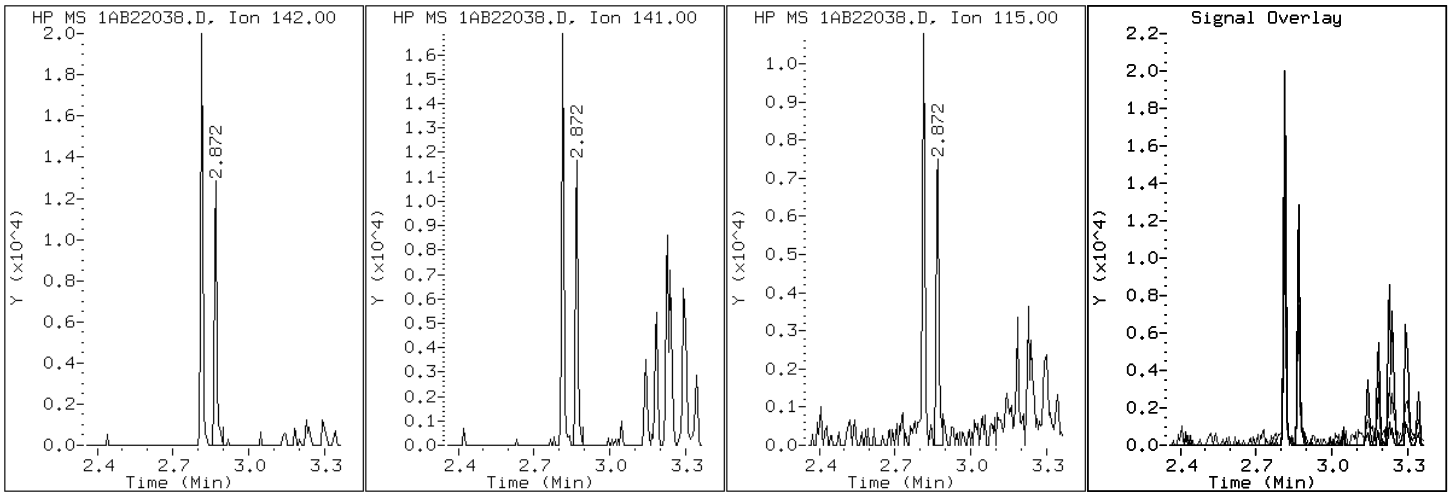
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

4 1-Methylnaphthalene



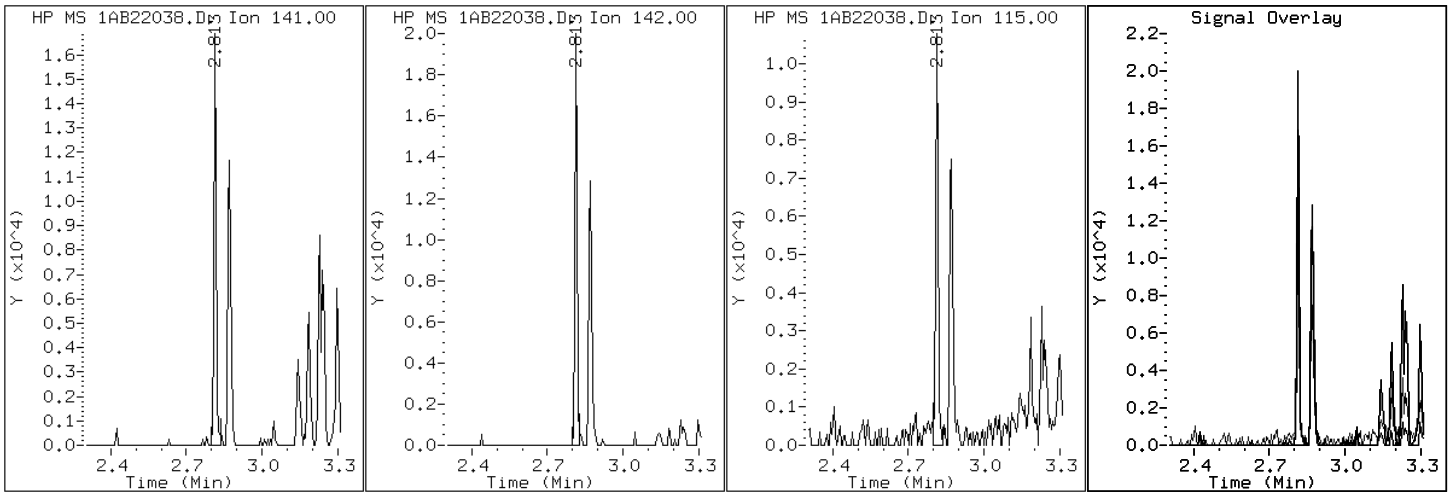
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

3 2-Methylnaphthalene



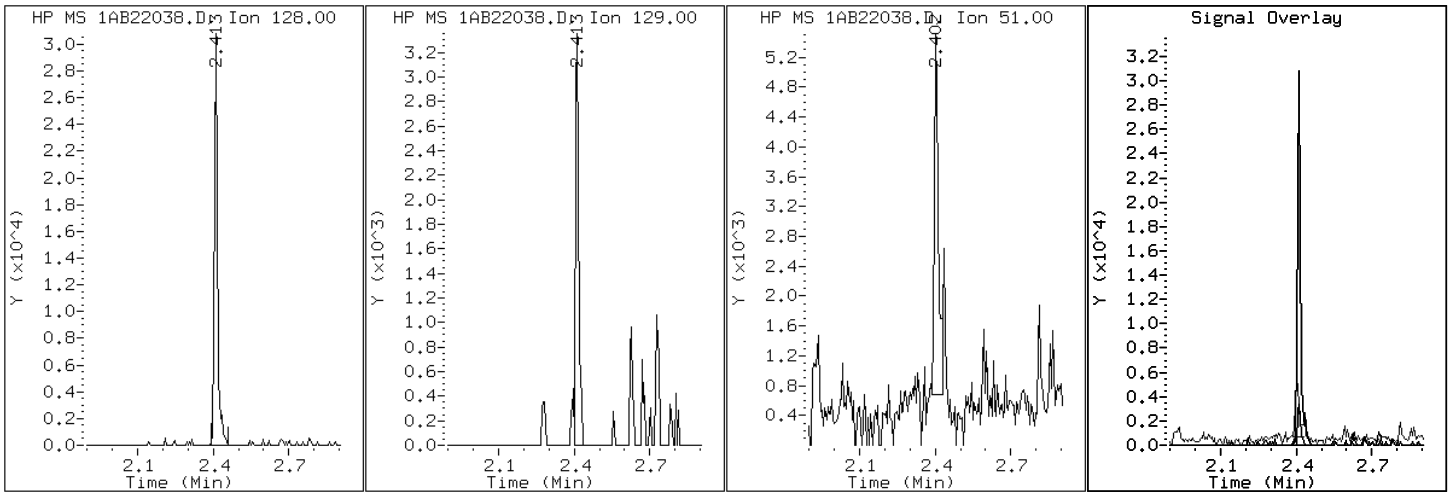
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

2 Naphthalene



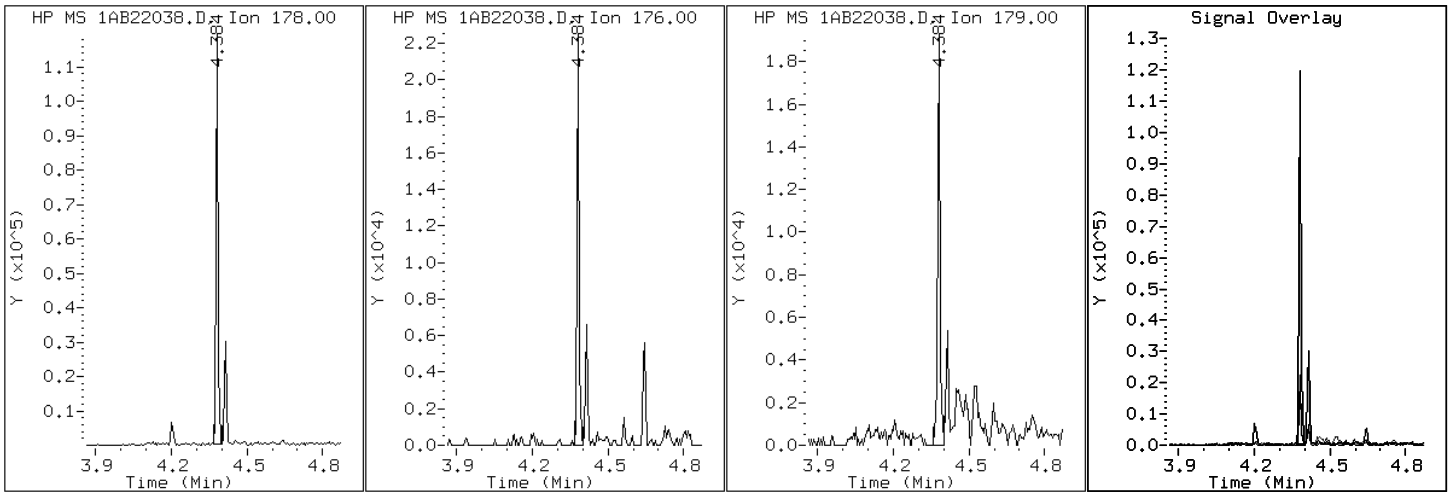
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

11 Phenanthrene



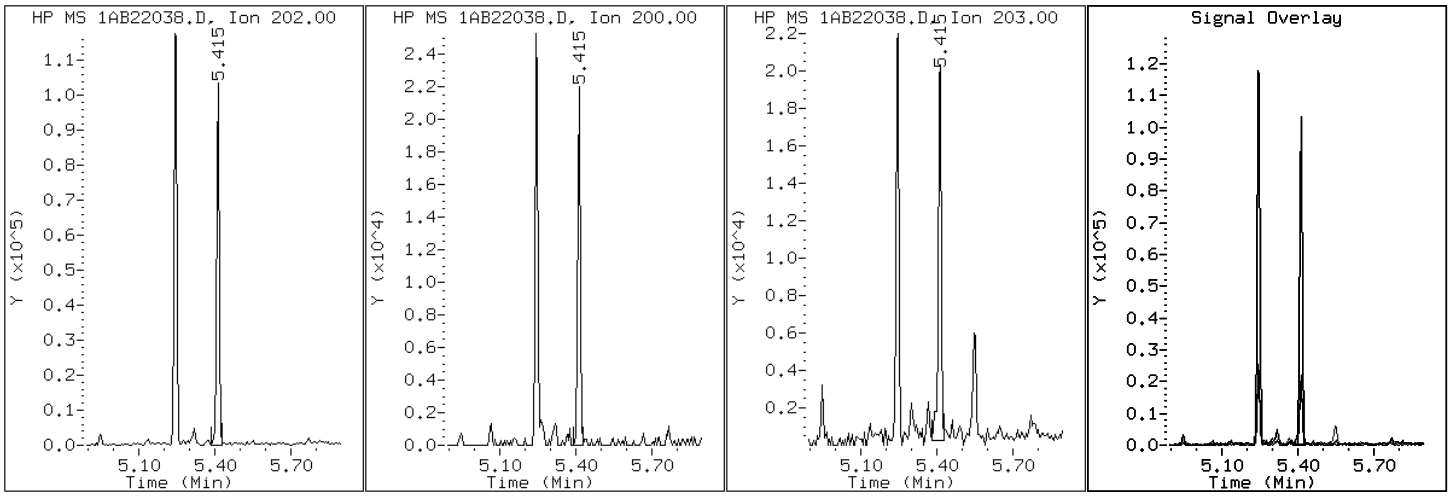
Data File: 1AB22038.D

Date: 22-FEB-2013 19:56

Client ID: Unamed Tributary Gr Instrument: BSMA5973.i

Sample Info: 680-87496-a-74-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22038.D
Inj. Date and Time: 22-FEB-2013 19:56
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Gr
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

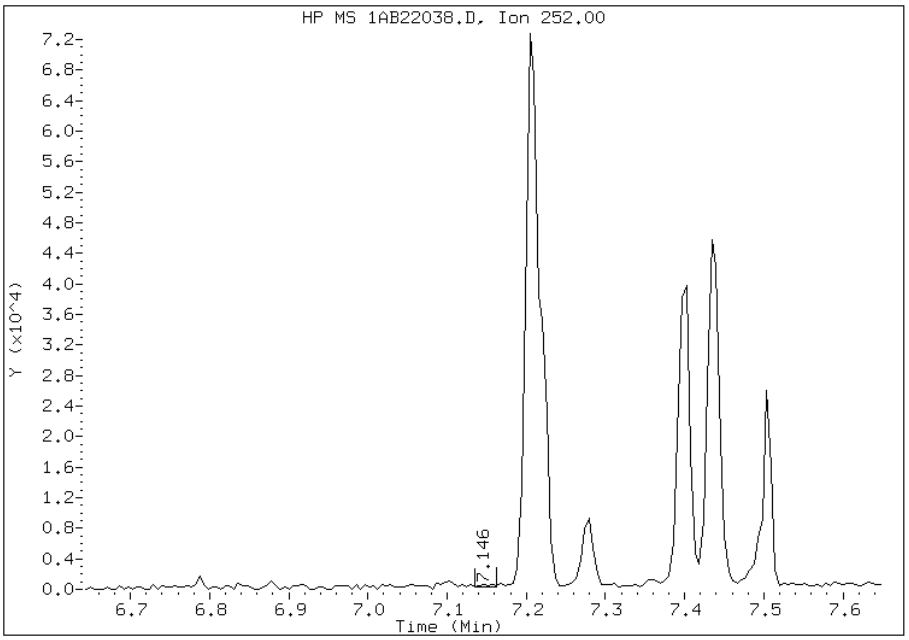
Processing Integration Results

RT: 7.15

Response: 272

Amount: 0

Conc: 1



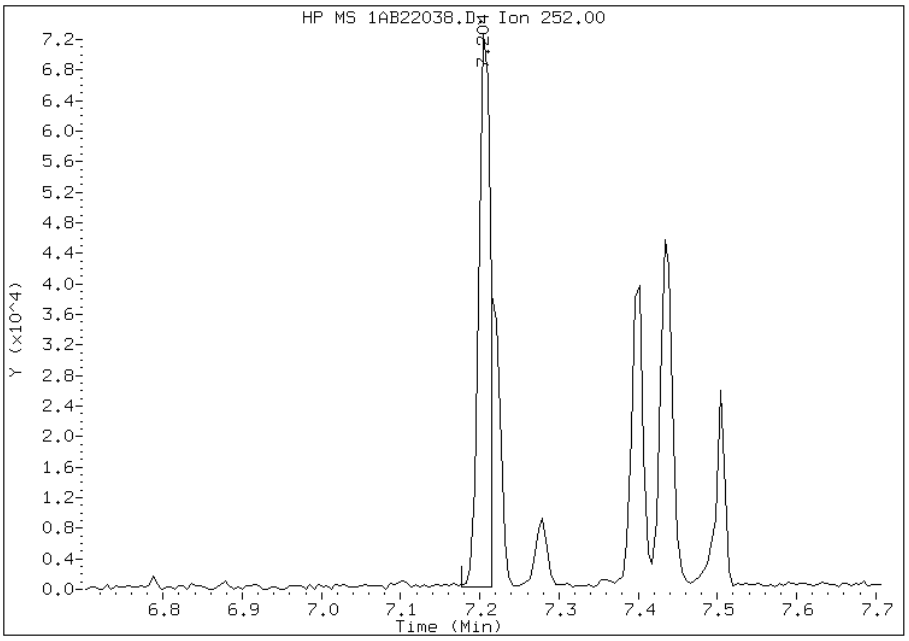
Manual Integration Results

RT: 7.20

Response: 74015

Amount: 2

Conc: 237



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22038.D
Inj. Date and Time: 22-FEB-2013 19:56
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Gr
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

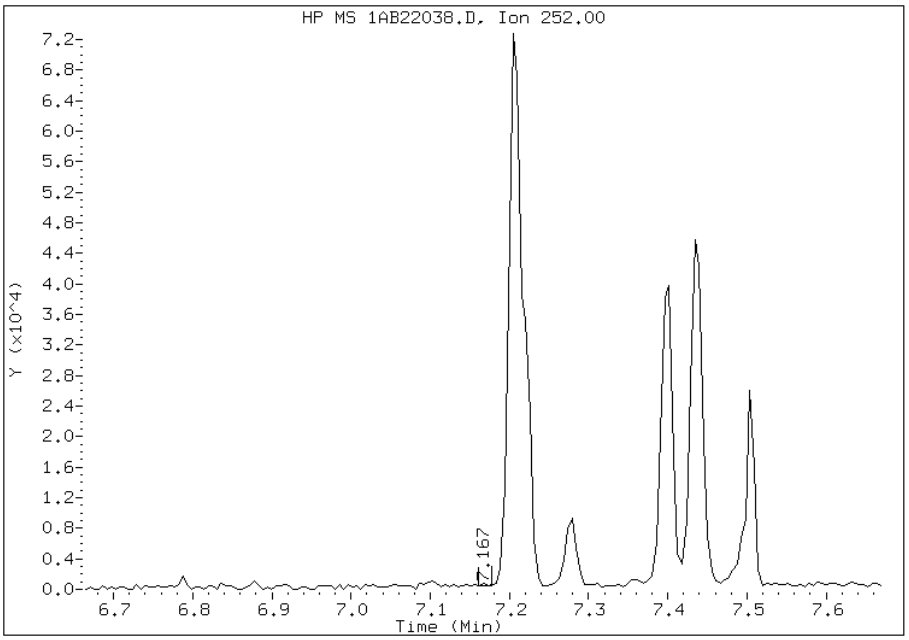
Processing Integration Results

RT: 7.17

Response: 231

Amount: 0

Conc: 1



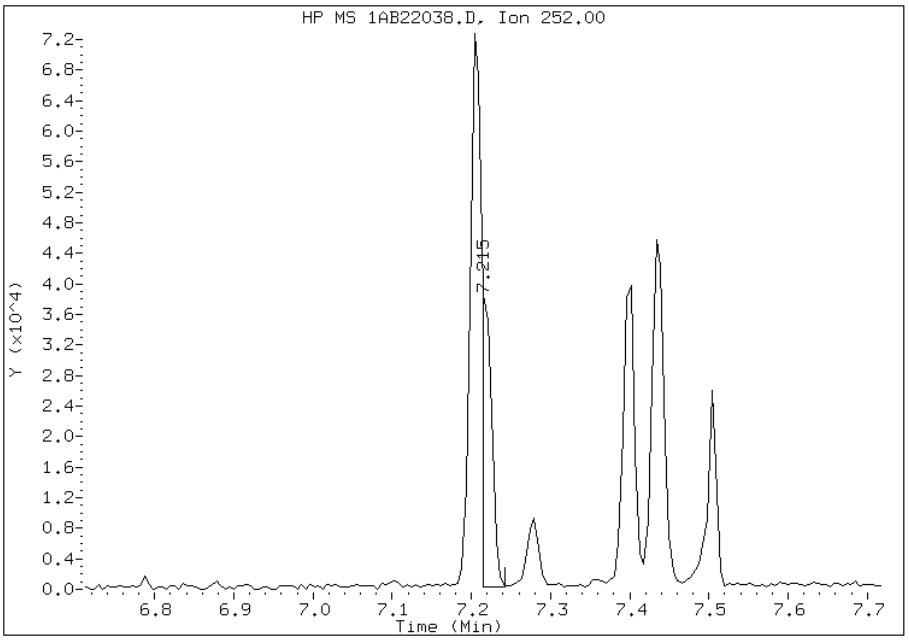
Manual Integration Results

RT: 7.22

Response: 33203

Amount: 1

Conc: 106



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22038.D
Inj. Date and Time: 22-FEB-2013 19:56
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary Gr
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

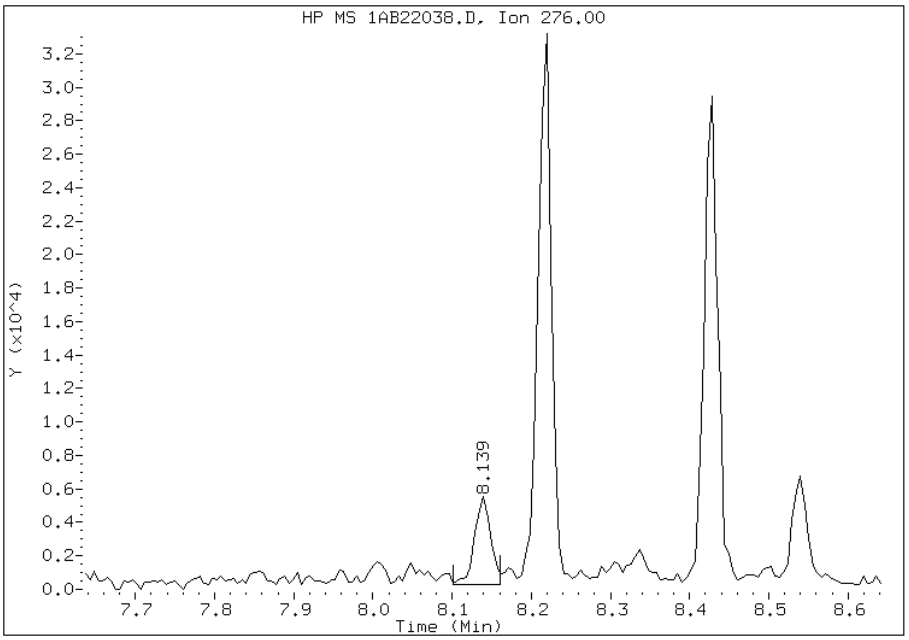
Processing Integration Results

RT: 8.14

Response: 7370

Amount: 0

Conc: 30



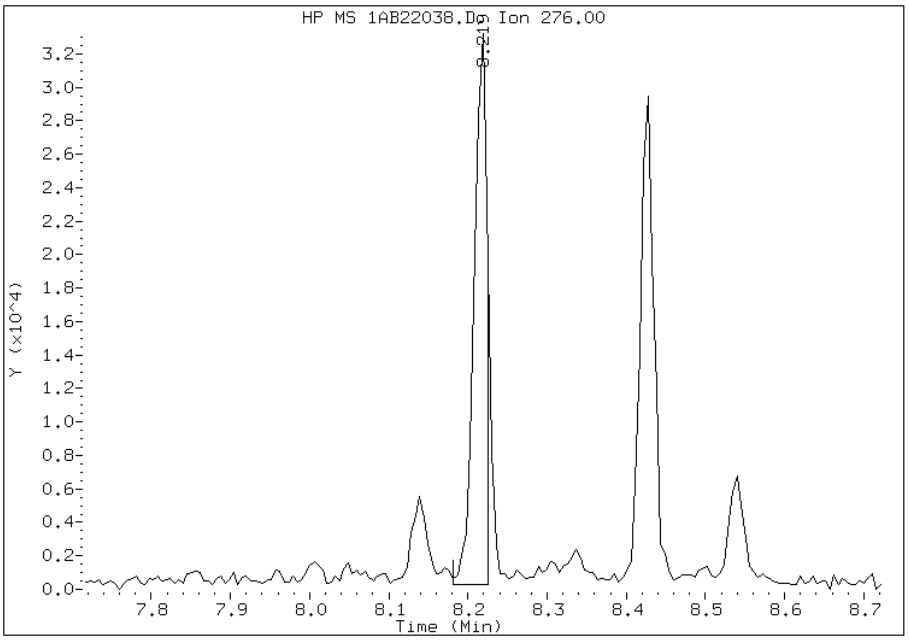
Manual Integration Results

RT: 8.22

Response: 36555

Amount: 2

Conc: 149



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: Unamed Tributary SD-B | Lab Sample ID: 680-87496-75

Matrix: Solid | Lab File ID: 1AB22039.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:00

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.26(g) | Date Analyzed: 02/22/2013 20:11

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

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

% Moisture: 14.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	87		46	5.8
120-12-7	Anthracene	110		9.7	4.8
56-55-3	Benzo[a]anthracene	340		9.2	4.5
50-32-8	Benzo[a]pyrene	290		12	6.0
205-99-2	Benzo[b]fluoranthene	390		14	7.0
191-24-2	Benzo[g,h,i]perylene	310		23	5.1
207-08-9	Benzo[k]fluoranthene	120		9.2	4.2
218-01-9	Chrysene	290		10	5.2
53-70-3	Dibenz(a,h)anthracene	73		23	4.7
206-44-0	Fluoranthene	400		23	4.6
86-73-7	Fluorene	25		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	200		23	8.2
90-12-0	1-Methylnaphthalene	51		46	5.1
91-57-6	2-Methylnaphthalene	80		46	8.2
91-20-3	Naphthalene	120		46	5.1
85-01-8	Phenanthrene	210		9.2	4.5
129-00-0	Pyrene	420		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	33		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22039.D
Lab Smp Id: 680-87496-A-75-A Client Smp ID: Unamed Tributary SD
Inj Date : 22-FEB-2013 20:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-75-a
Misc Info : 680-87496-A-75-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 39
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	15.260	Weight Extracted
M	14.815	% 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	2.404	2.397	(1.000)	977851	40.0000	
* 6 Acenaphthene-d10	164	3.429	3.417	(1.000)	818490	40.0000	
* 10 Phenanthrene-d10	188	4.370	4.352	(1.000)	1091790	40.0000	
$ 14 o-Terphenyl	230	4.642	4.635	(1.062)	52484	3.30365	254.1410
* 18 Chrysene-d12	240	6.394	6.366	(1.000)	851875	40.0000	(H)
* 23 Perylene-d12	264	7.500	7.456	(1.000)	1232991	40.0000	(H)
2 Naphthalene	128	2.409	2.402	(1.002)	36667	1.55616	119.7111
3 2-Methylnaphthalene	141	2.815	2.808	(1.171)	12707	1.04465	80.3624
4 1-Methylnaphthalene	142	2.874	2.861	(1.196)	9025	0.66628	51.2555
5 Acenaphthylene	152	3.344	3.332	(0.975)	34669	1.13441	87.2673
9 Fluorene	166	3.755	3.743	(1.095)	7388	0.33148	25.4999
11 Phenanthrene	178	4.380	4.368	(1.002)	74243	2.73574	210.4532
12 Anthracene	178	4.412	4.400	(1.010)	38660	1.46658	112.8201
13 Carbazole	167	4.573	4.555	(1.046)	8429	0.36222	27.8649

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.246	5.228	(1.200)	142748	5.26078	404.6984
16 Pyrene	202	5.417	5.394	(0.847)	137449	5.50089	423.1695(H)
17 Benzo(a)anthracene	228	6.389	6.355	(0.999)	112216	4.41164	339.3765(H)
19 Chrysene	228	6.410	6.387	(1.002)	84619	3.71967	286.1445(H)
20 Benzo(b)fluoranthene	252	7.212	7.178	(0.962)	160357	5.13040	394.6684(MH)
21 Benzo(k)fluoranthene	252	7.222	7.199	(0.963)	49792	1.58343	121.8091(QMH)
22 Benzo(a)pyrene	252	7.441	7.408	(0.992)	108935	3.80571	292.7636(H)
24 Indeno(1,2,3-cd)pyrene	276	8.227	8.177	(1.097)	62964	2.56400	197.2418(MH)
25 Dibenzo(a,h)anthracene	278	8.237	8.193	(1.098)	24433	0.95477	73.4482(H)
26 Benzo(g,h,i)perylene	276	8.440	8.385	(1.125)	105518	4.03988	310.7780(H)

QC Flag Legend

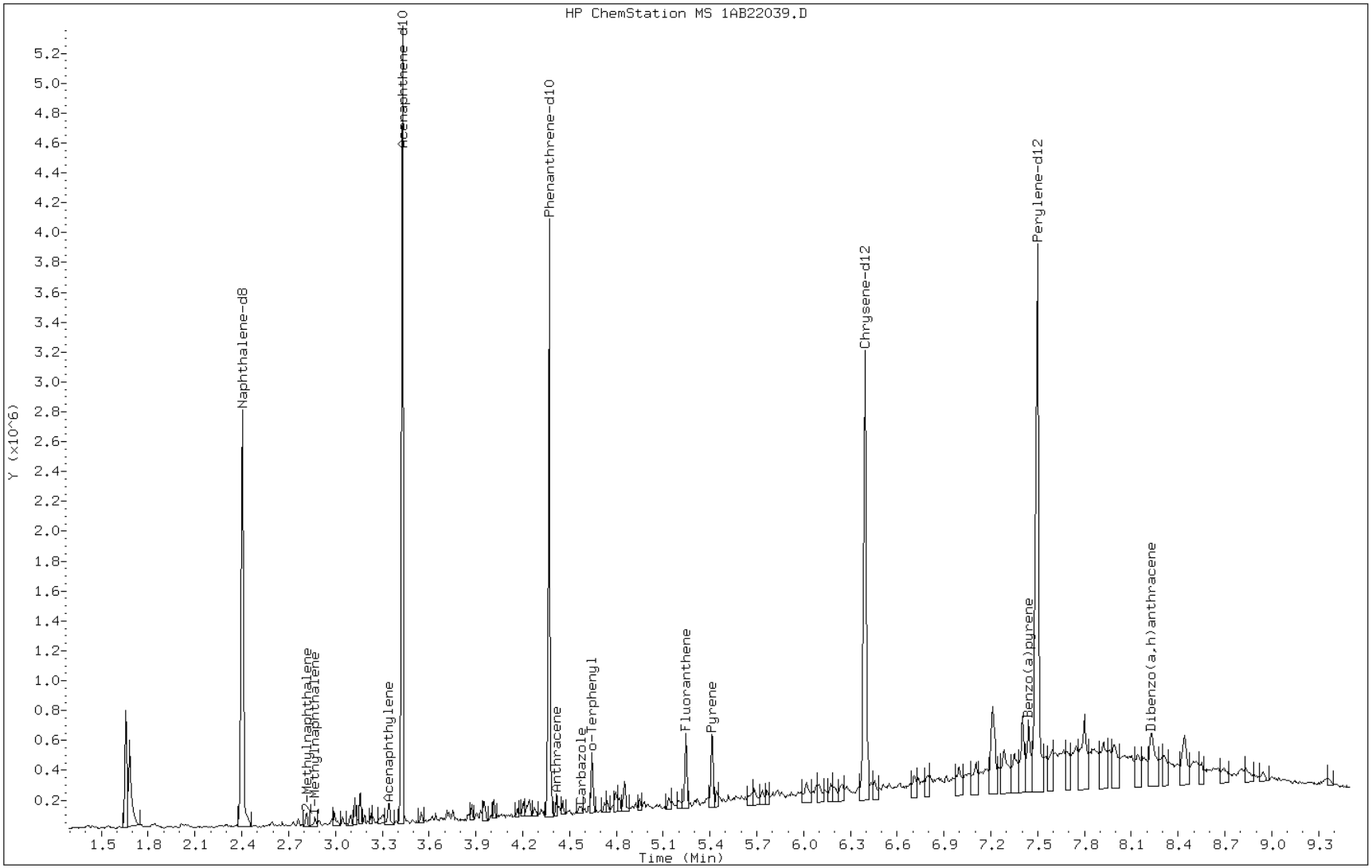
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC



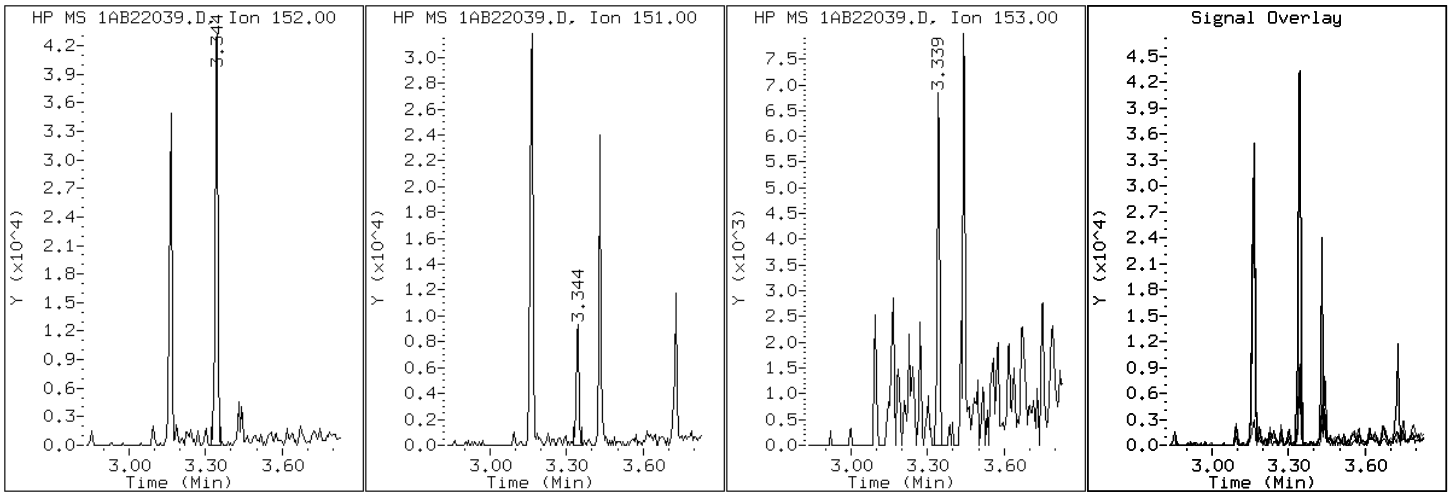
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

5 Acenaphthylene



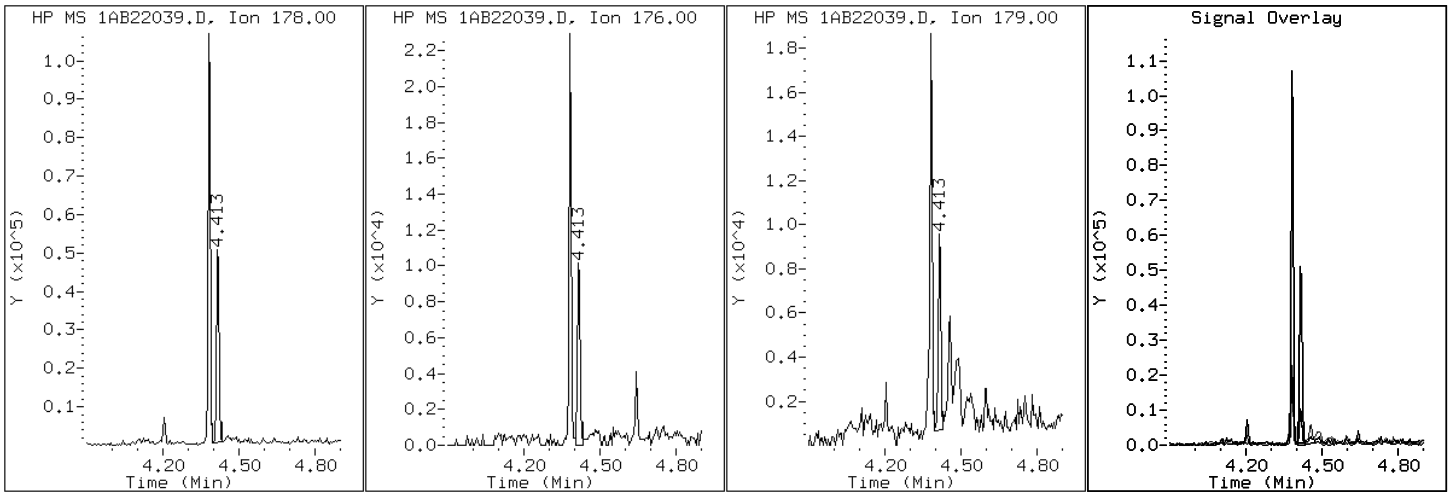
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

12 Anthracene



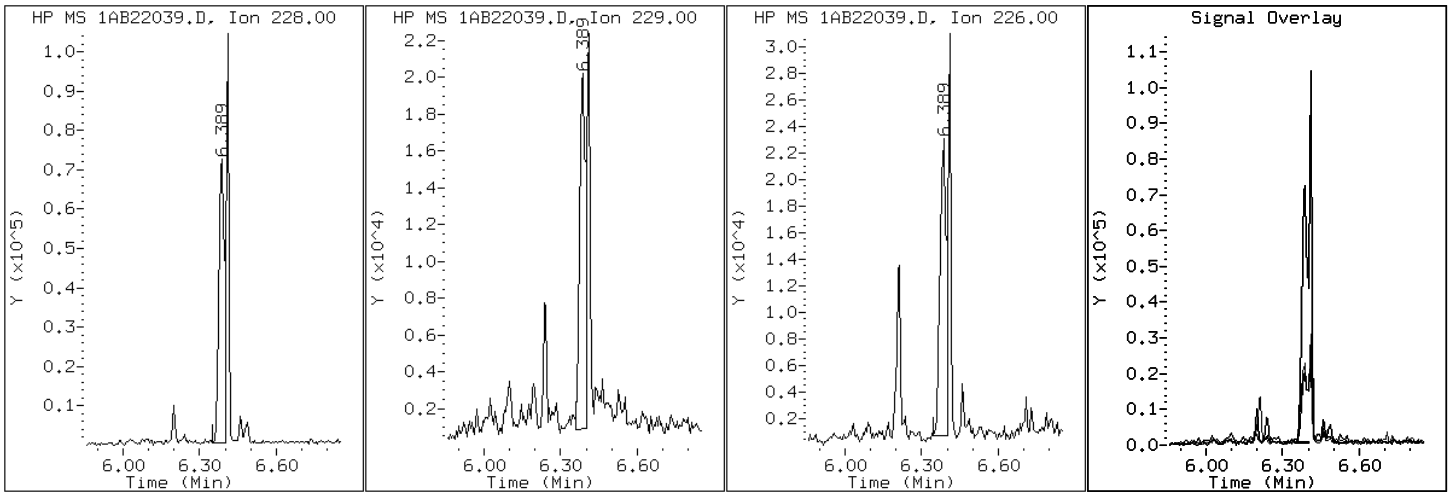
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

17 Benzo(a)anthracene



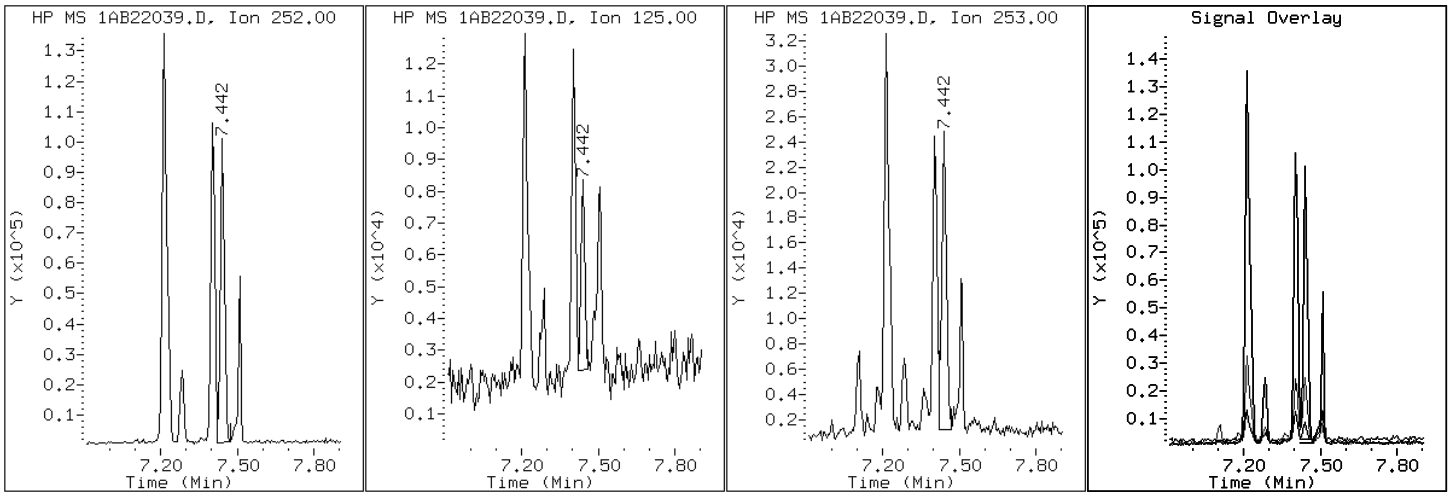
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

22 Benzo(a)pyrene



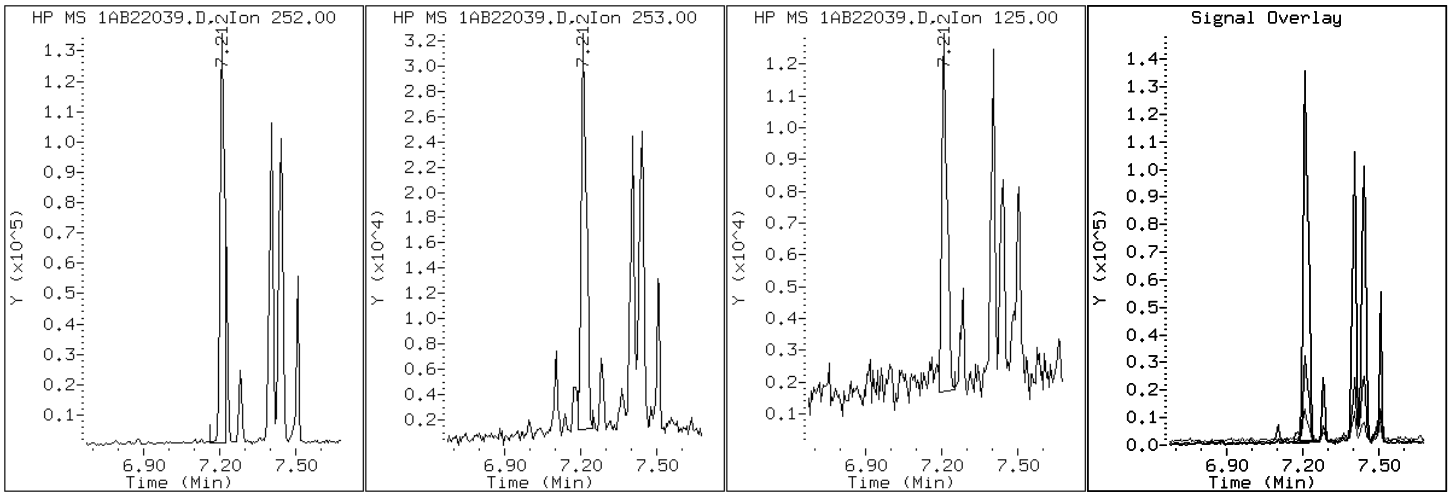
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

20 Benzo(b)fluoranthene



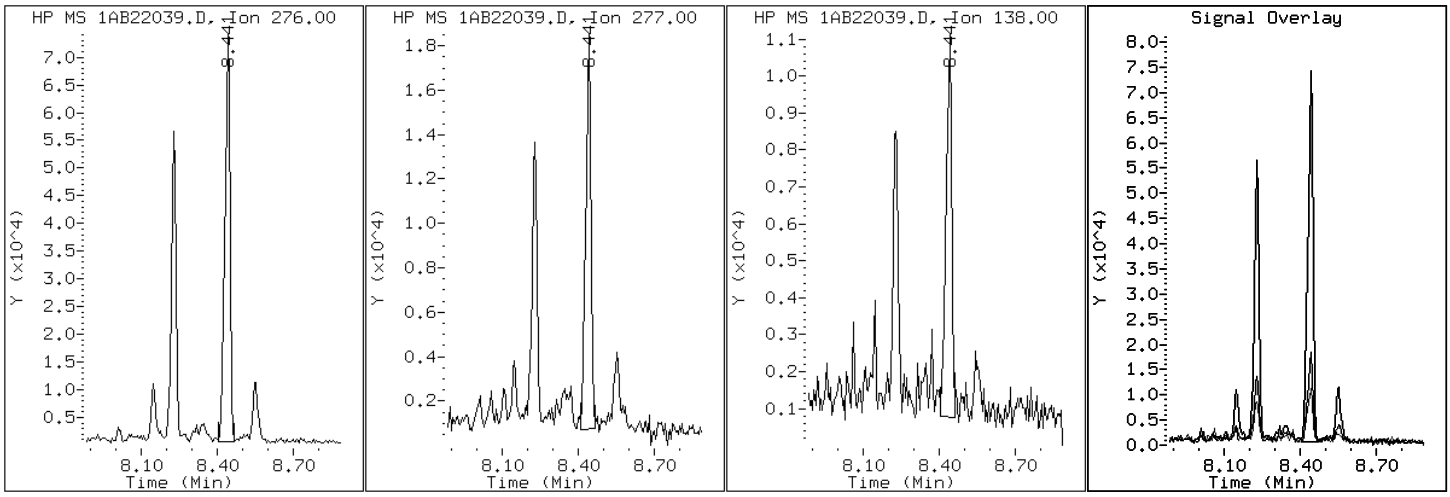
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

26 Benzo(g,h,i)perylene



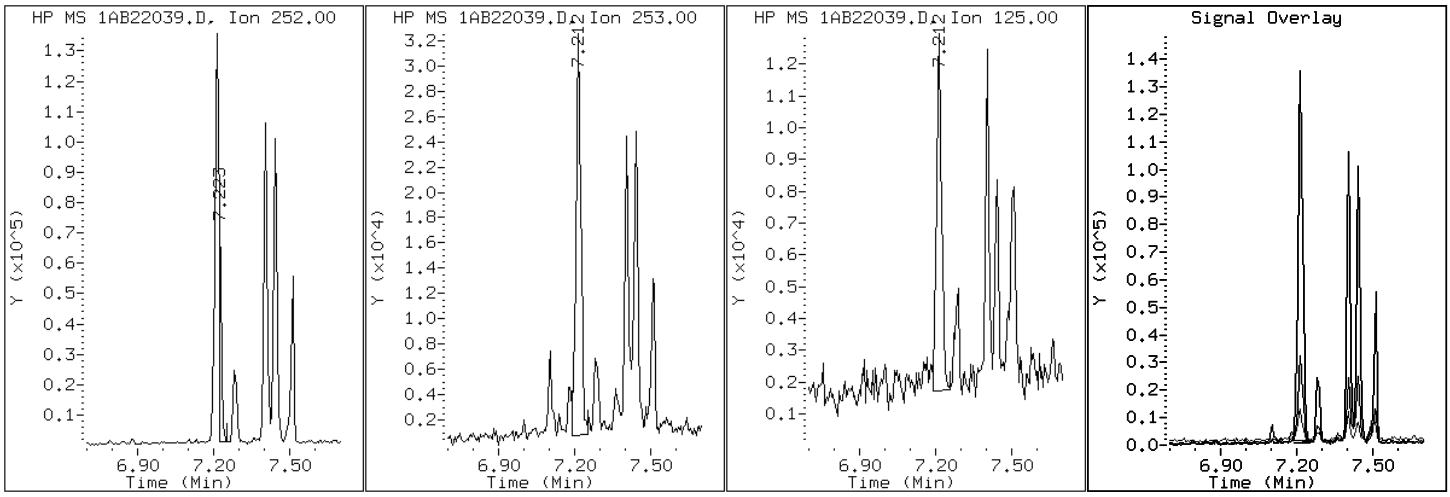
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

21 Benzo(k)fluoranthene



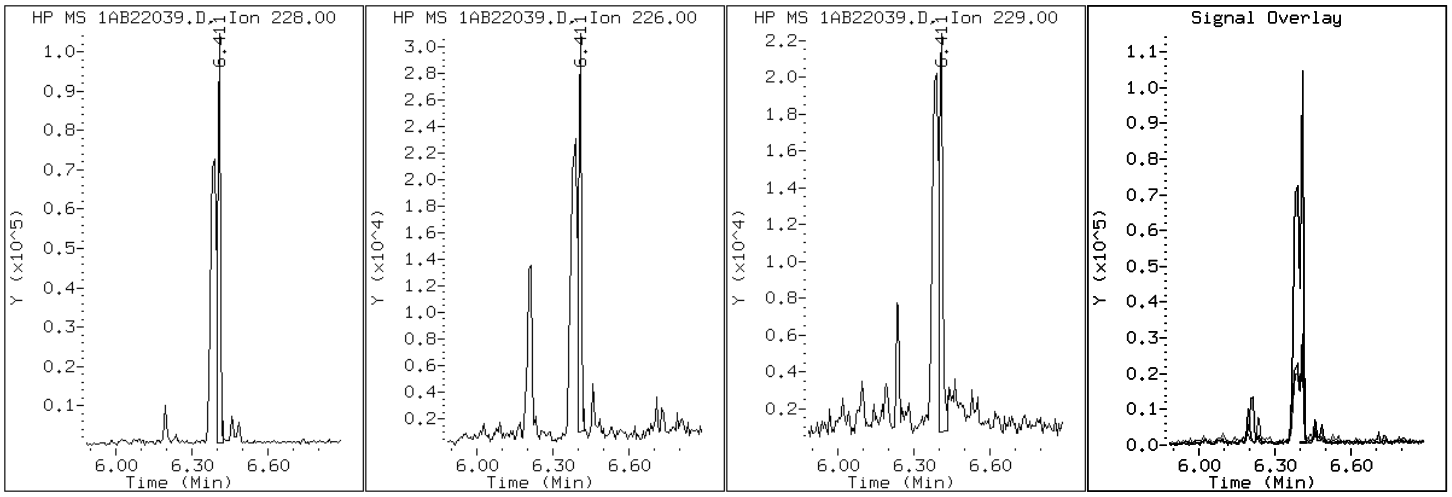
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

19 Chrysene



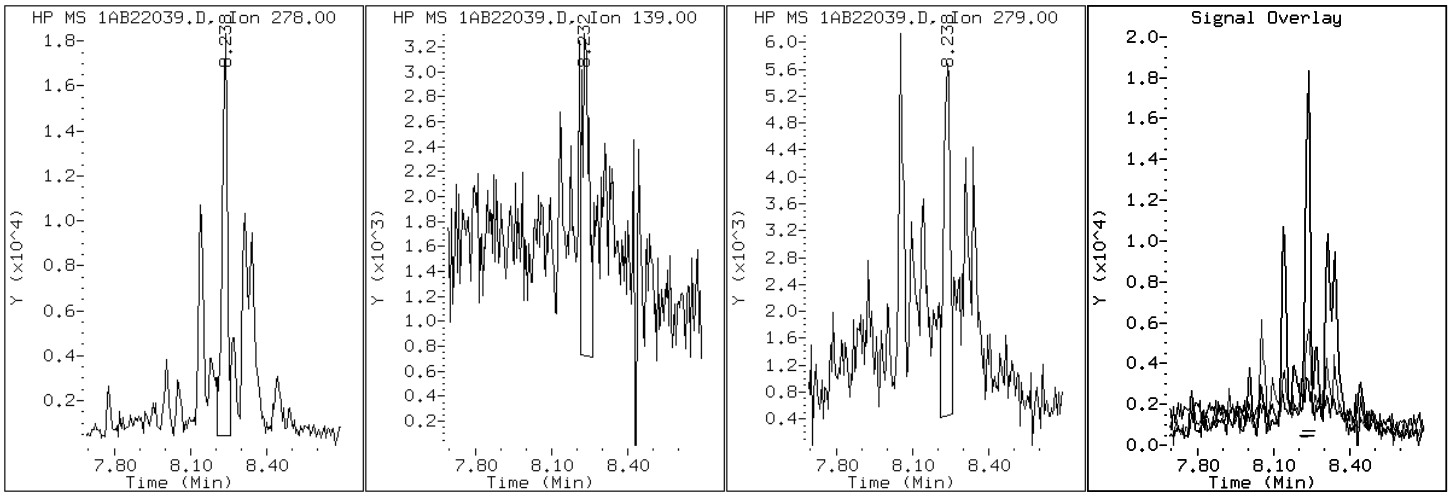
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

25 Dibenzo(a,h)anthracene



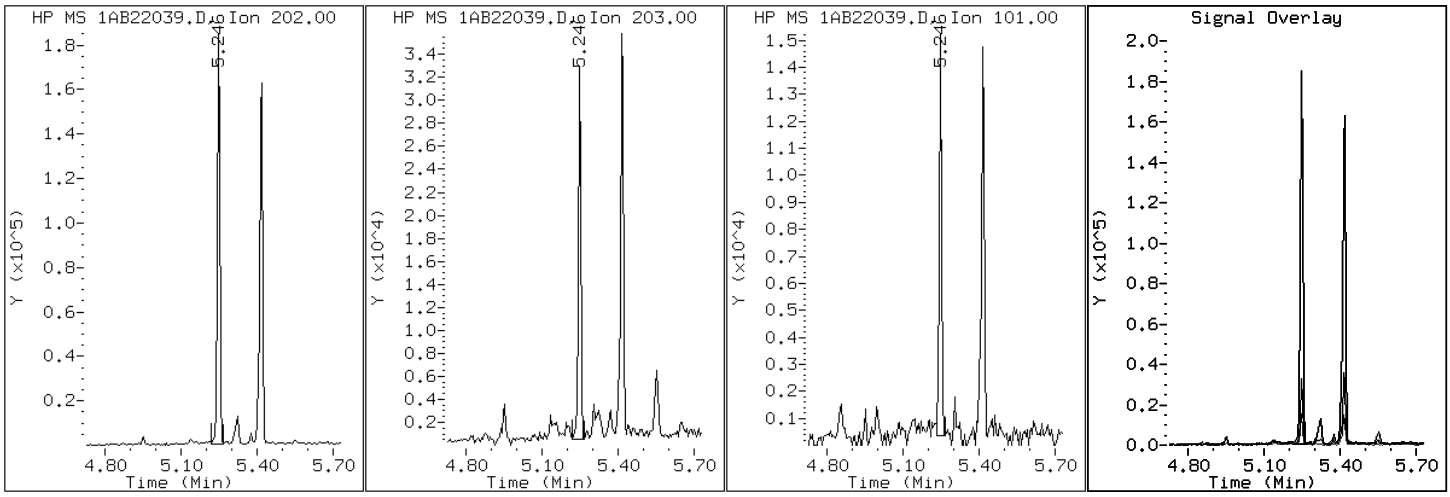
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

15 Fluoranthene



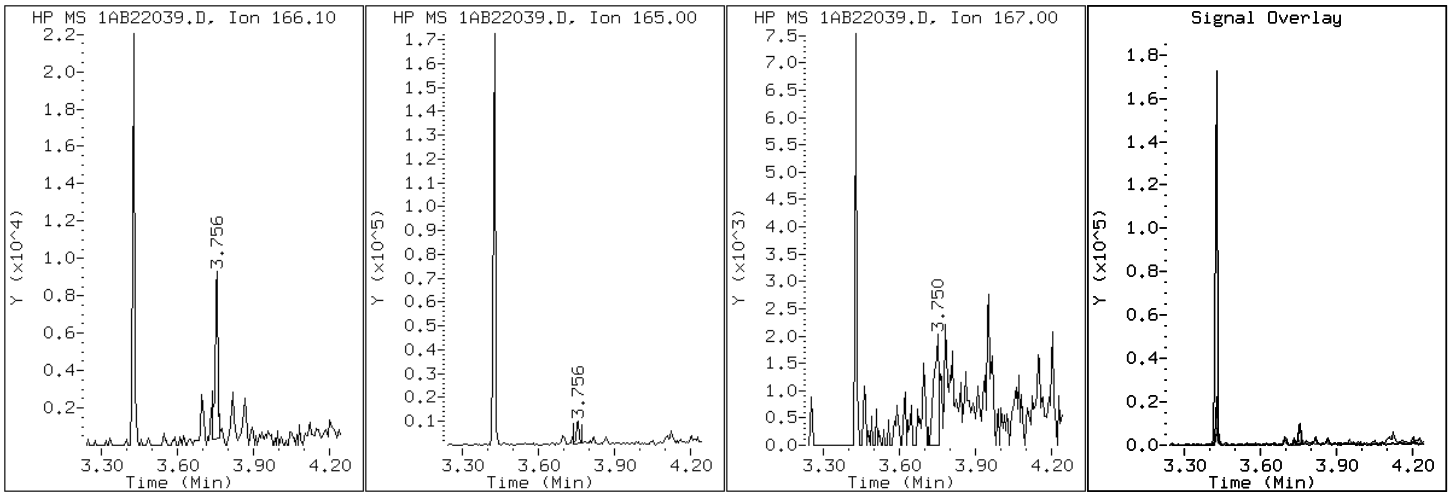
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

9 Fluorene



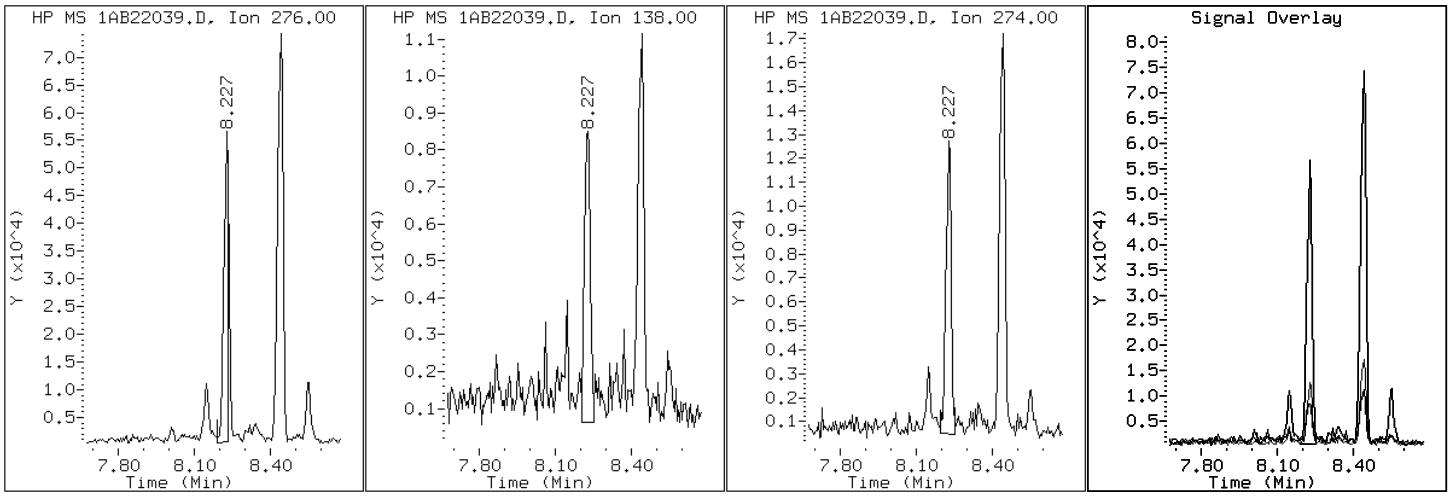
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

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



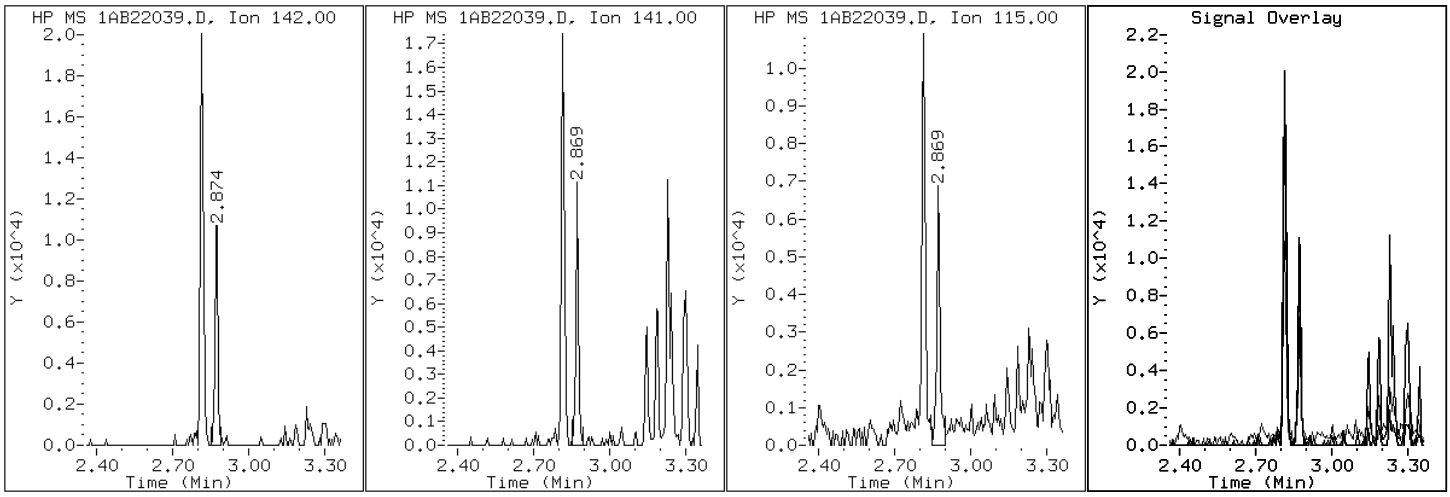
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

4 1-Methylnaphthalene



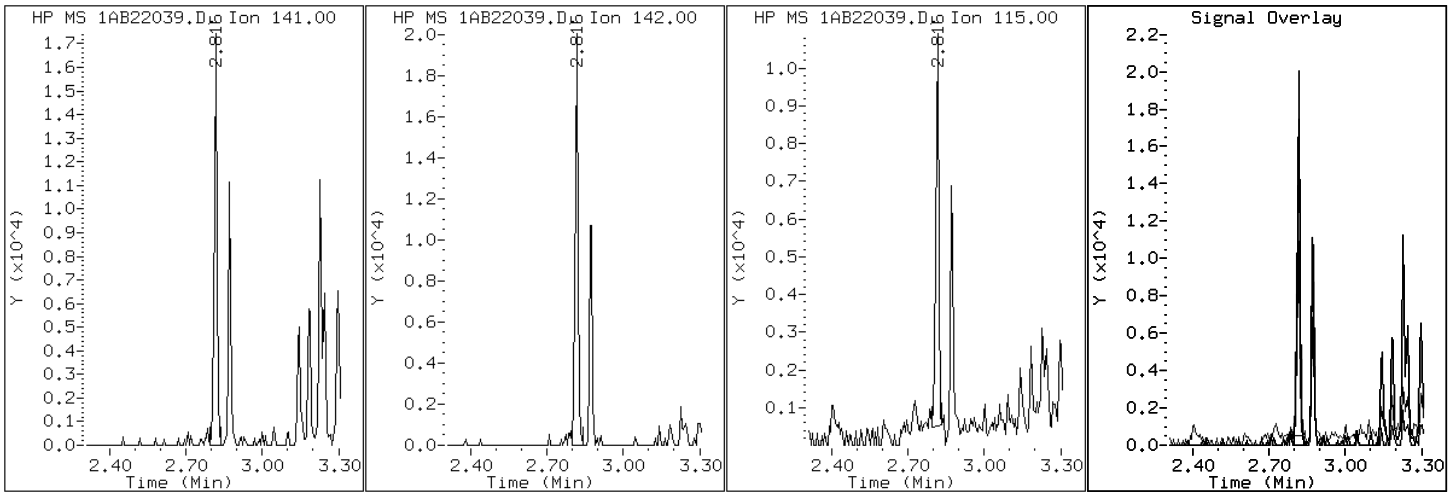
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

3 2-Methylnaphthalene



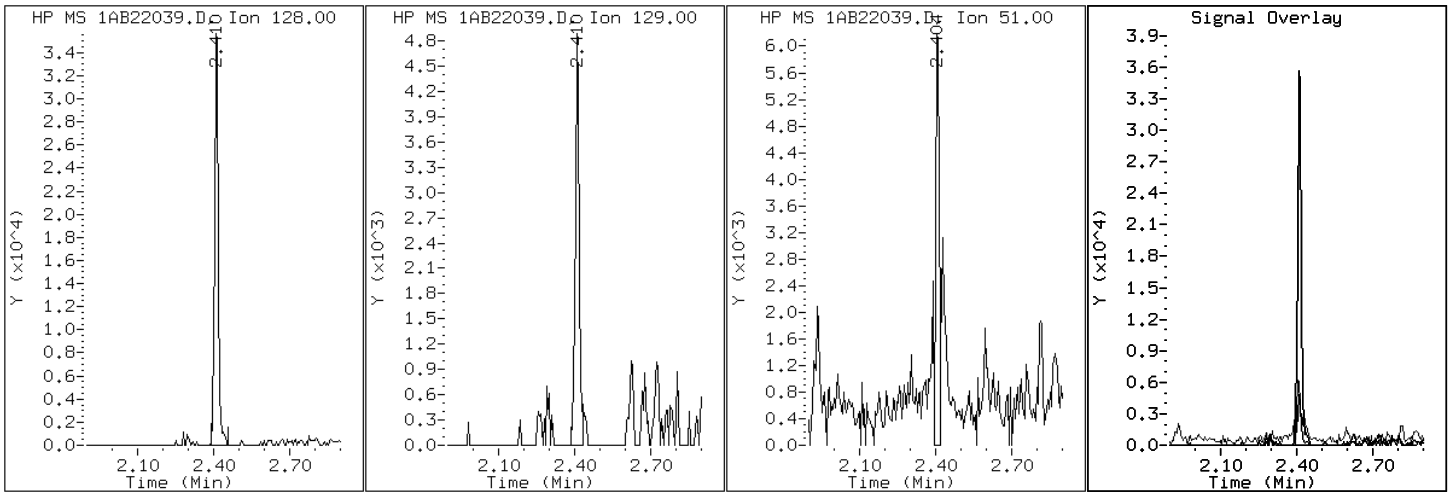
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

2 Naphthalene



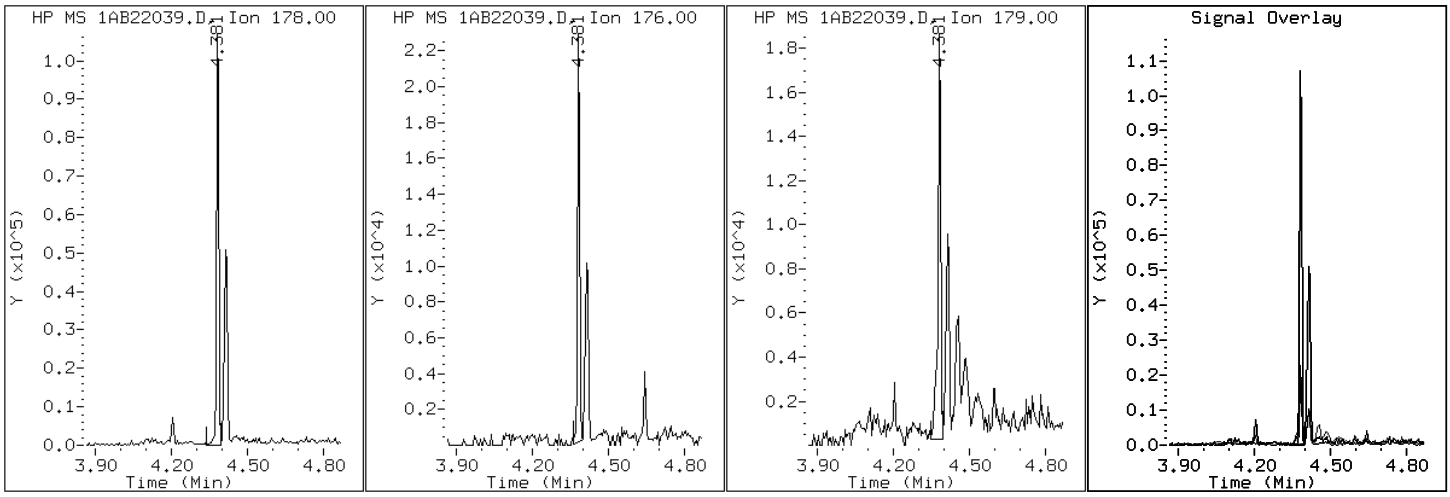
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

11 Phenanthrene



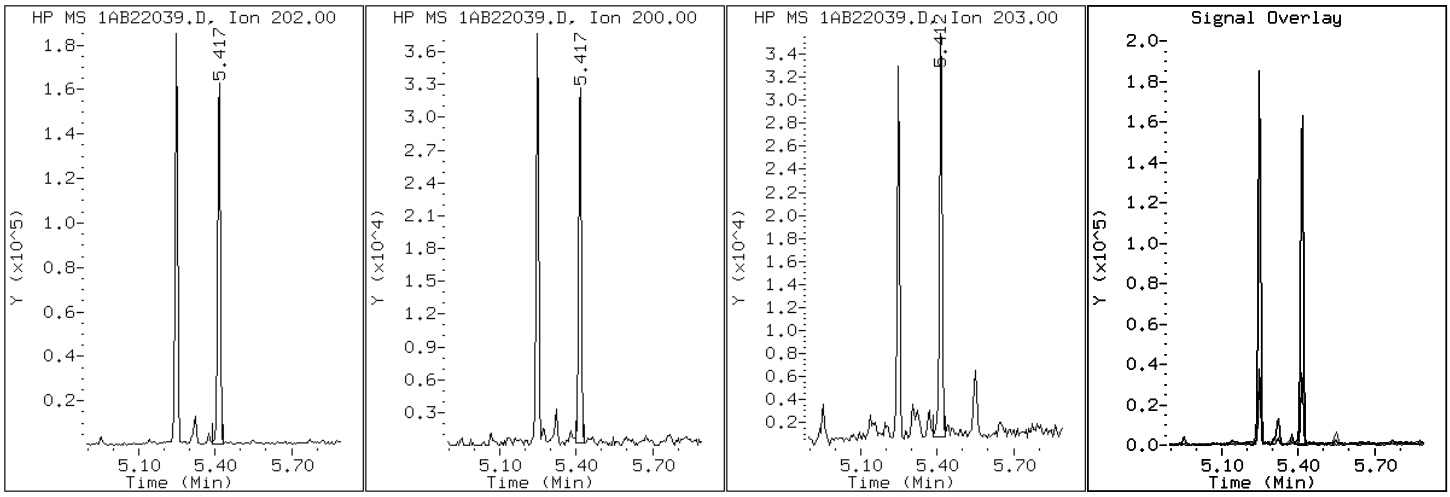
Data File: 1AB22039.D

Date: 22-FEB-2013 20:11

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-a-75-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22039.D
Inj. Date and Time: 22-FEB-2013 20:11
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary SD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

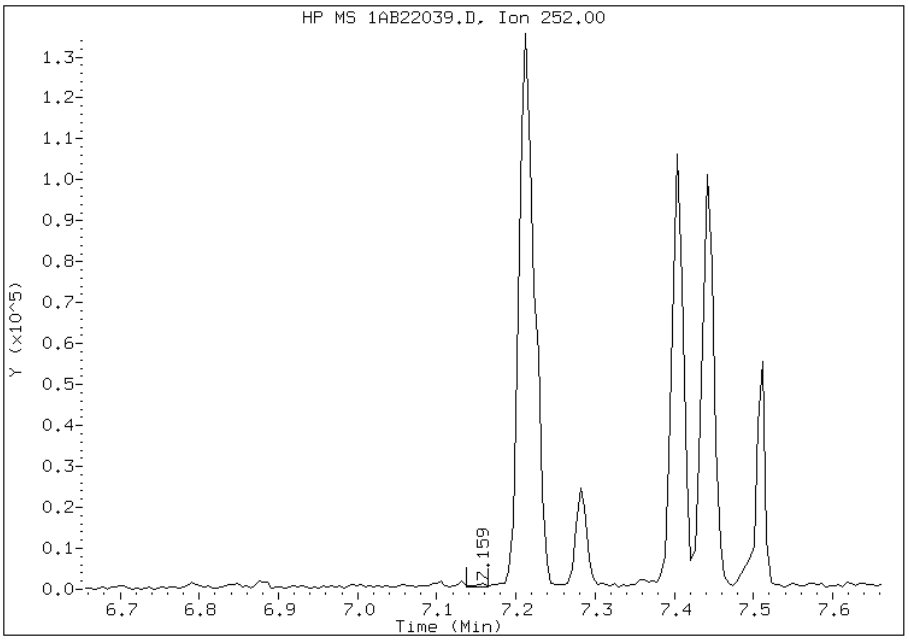
Processing Integration Results

RT: 7.16

Response: 657

Amount: 0

Conc: 2



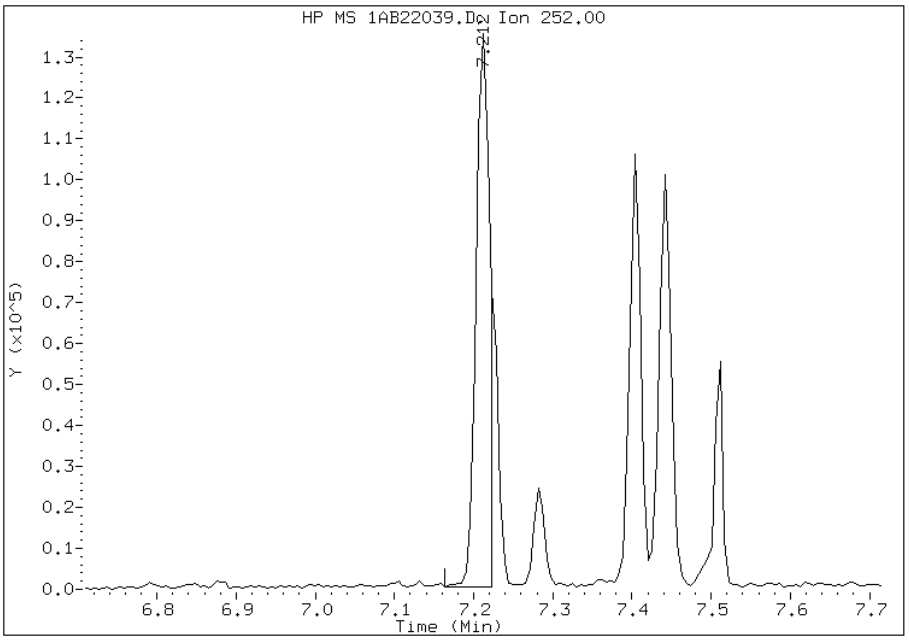
Manual Integration Results

RT: 7.21

Response: 160357

Amount: 5

Conc: 395



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:26
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22039.D
Inj. Date and Time: 22-FEB-2013 20:11
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary SD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

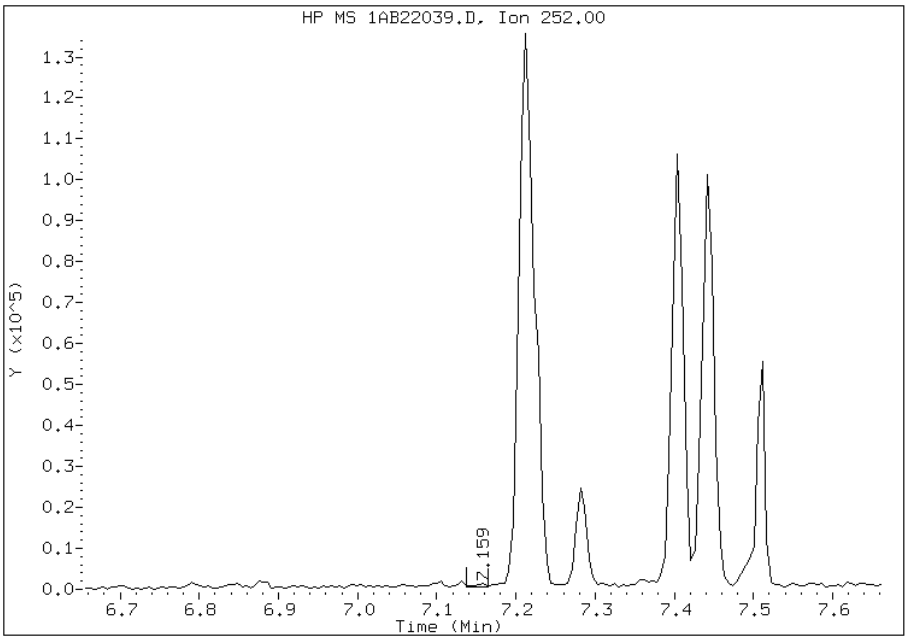
Processing Integration Results

RT: 7.16

Response: 659

Amount: 0

Conc: 2



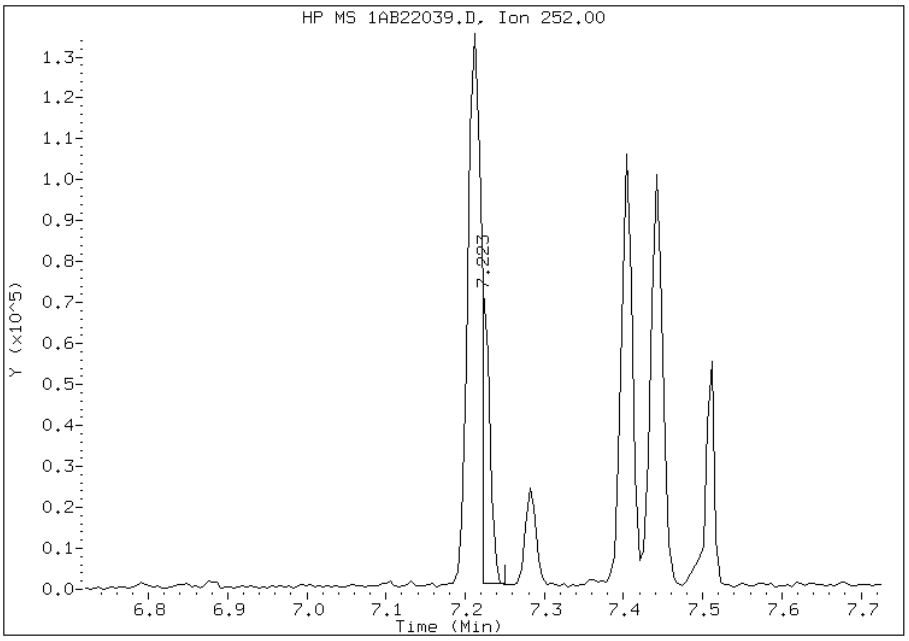
Manual Integration Results

RT: 7.22

Response: 49792

Amount: 2

Conc: 122



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22039.D
Inj. Date and Time: 22-FEB-2013 20:11
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary SD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

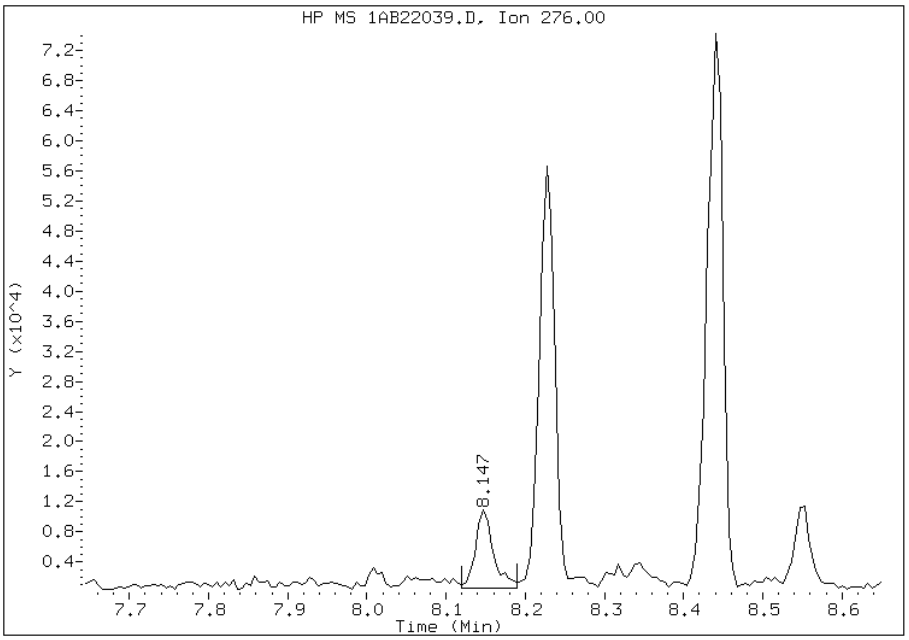
Processing Integration Results

RT: 8.15

Response: 16224

Amount: 1

Conc: 51



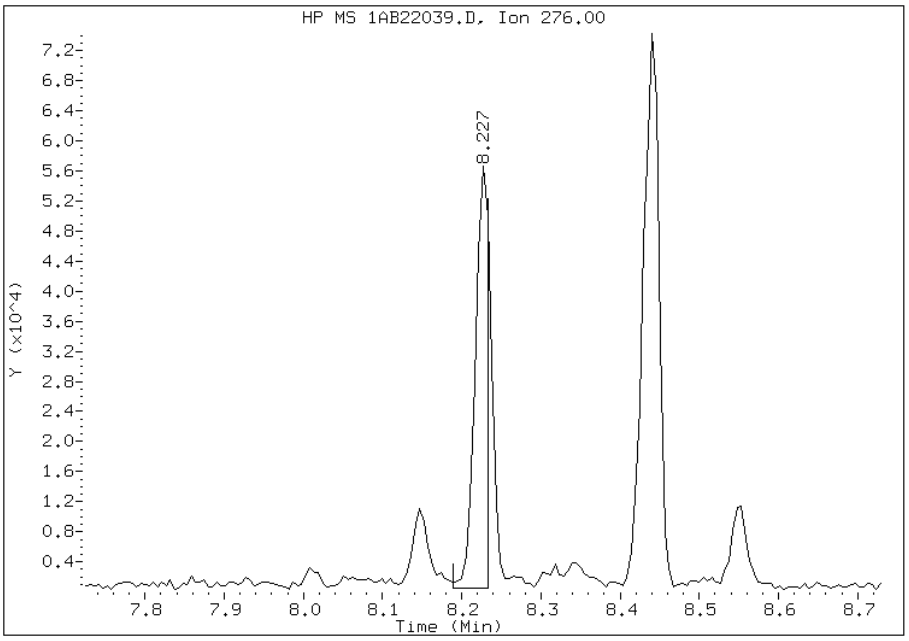
Manual Integration Results

RT: 8.23

Response: 62964

Amount: 3

Conc: 197



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: Unamed Tributary SD-C | Lab Sample ID: 680-87496-76

Matrix: Solid | Lab File ID: 1AB25049.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 13:30

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.06(g) | Date Analyzed: 02/26/2013 01:47

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

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

% Moisture: 29.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134820 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	39	J	57	7.1
120-12-7	Anthracene	50		12	5.9
56-55-3	Benzo[a]anthracene	150		11	5.5
50-32-8	Benzo[a]pyrene	130		15	7.4
205-99-2	Benzo[b]fluoranthene	170		17	8.6
191-24-2	Benzo[g,h,i]perylene	96		28	6.2
207-08-9	Benzo[k]fluoranthene	89		11	5.1
218-01-9	Chrysene	160		13	6.4
53-70-3	Dibenz(a,h)anthracene	32		28	5.8
206-44-0	Fluoranthene	250		28	5.7
86-73-7	Fluorene	16	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	87		28	10
90-12-0	1-Methylnaphthalene	28	J	57	6.2
91-57-6	2-Methylnaphthalene	40	J	57	10
91-20-3	Naphthalene	68		57	6.2
85-01-8	Phenanthrene	110		11	5.5
129-00-0	Pyrene	240		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	34		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25049.D
Lab Smp Id: 680-87496-A-76-A Client Smp ID: Unamed Tributary SD
Inj Date : 26-FEB-2013 01:47
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-A-76-A
Misc Info : 680-87496-A-76-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.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	29.672	% 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	2.396	2.379	(1.000)	566940	40.0000	
* 6 Acenaphthene-d10	164	3.422	3.404	(1.000)	405836	40.0000	
* 10 Phenanthrene-d10	188	4.368	4.339	(1.000)	638001	40.0000	
$ 14 o-Terphenyl	230	4.640	4.622	(1.062)	31732	3.41808	322.7240
* 18 Chrysene-d12	240	6.398	6.353	(1.000)	501059	40.0000	
* 23 Perylene-d12	264	7.498	7.443	(1.000)	575711	40.0000	(H)
2 Naphthalene	128	2.407	2.389	(1.004)	9813	0.71832	67.8210
3 2-Methylnaphthalene	141	2.808	2.790	(1.172)	3003	0.42581	40.2039
4 1-Methylnaphthalene	142	2.867	2.849	(1.196)	2370	0.30178	28.4935
5 Acenaphthylene	152	3.337	3.319	(0.975)	6256	0.41285	38.9796
9 Fluorene	166	3.753	3.730	(1.097)	1859	0.16822	15.8826(Q)
11 Phenanthrene	178	4.378	4.355	(1.002)	19072	1.20263	113.5487
12 Anthracene	178	4.416	4.387	(1.011)	8171	0.53044	50.0825
13 Carbazole	167	4.581	4.542	(1.049)	3240	0.23827	22.4964

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.249	5.215	(1.202)	41939	2.64494	249.7270
16 Pyrene	202	5.415	5.381	(0.846)	38001	2.58567	244.1310
17 Benzo(a)anthracene	228	6.392	6.342	(0.999)	23340	1.56003	147.2933
19 Chrysene	228	6.408	6.369	(1.002)	22205	1.65949	156.6836
20 Benzo(b)fluoranthene	252	7.210	7.165	(0.962)	25658	1.75809	165.9934(MH)
21 Benzo(k)fluoranthene	252	7.220	7.181	(0.963)	13853	0.94349	89.0815(MH)
22 Benzo(a)pyrene	252	7.445	7.390	(0.993)	17776	1.33002	125.5761(H)
24 Indeno(1,2,3-cd)pyrene	276	8.225	8.164	(1.097)	10572	0.92201	87.0537(MH)
25 Dibenzo(a,h)anthracene	278	8.235	8.180	(1.098)	3994	0.33426	31.5599(H)
26 Benzo(g,h,i)perylene	276	8.438	8.367	(1.125)	12399	1.01668	95.9917(H)

QC Flag Legend

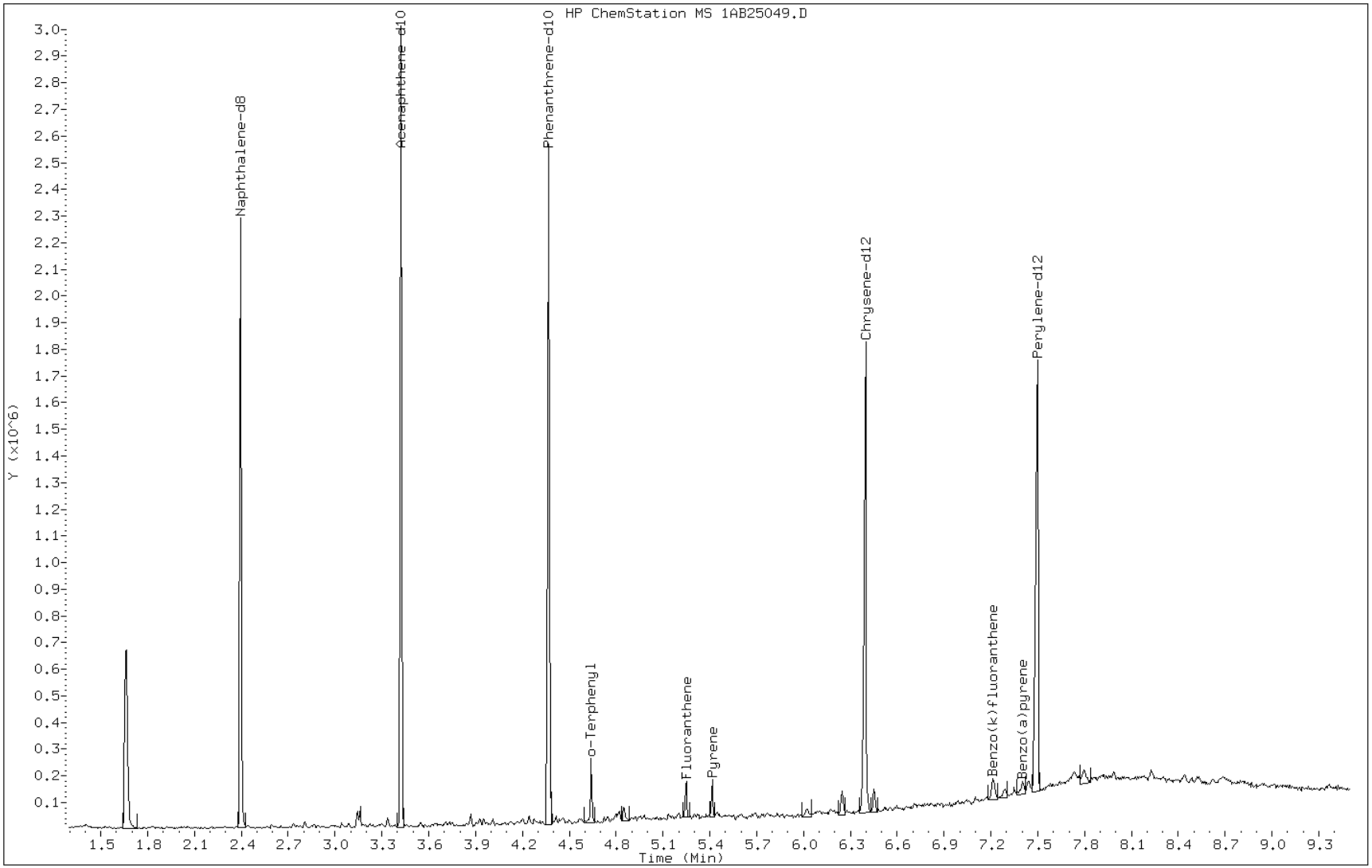
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC



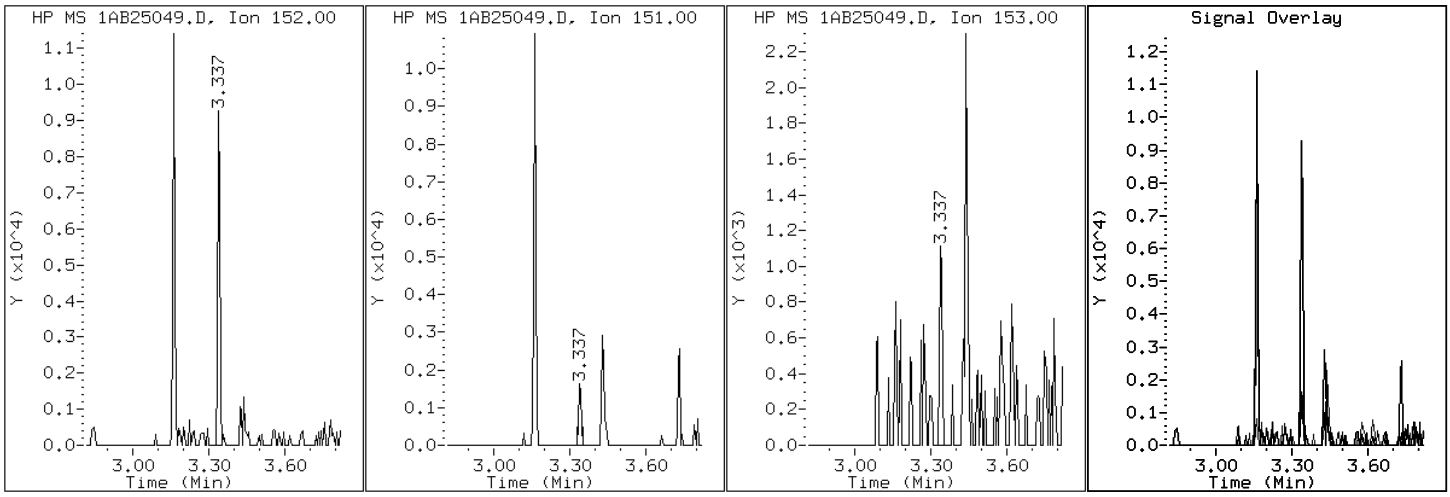
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

5 Acenaphthylene



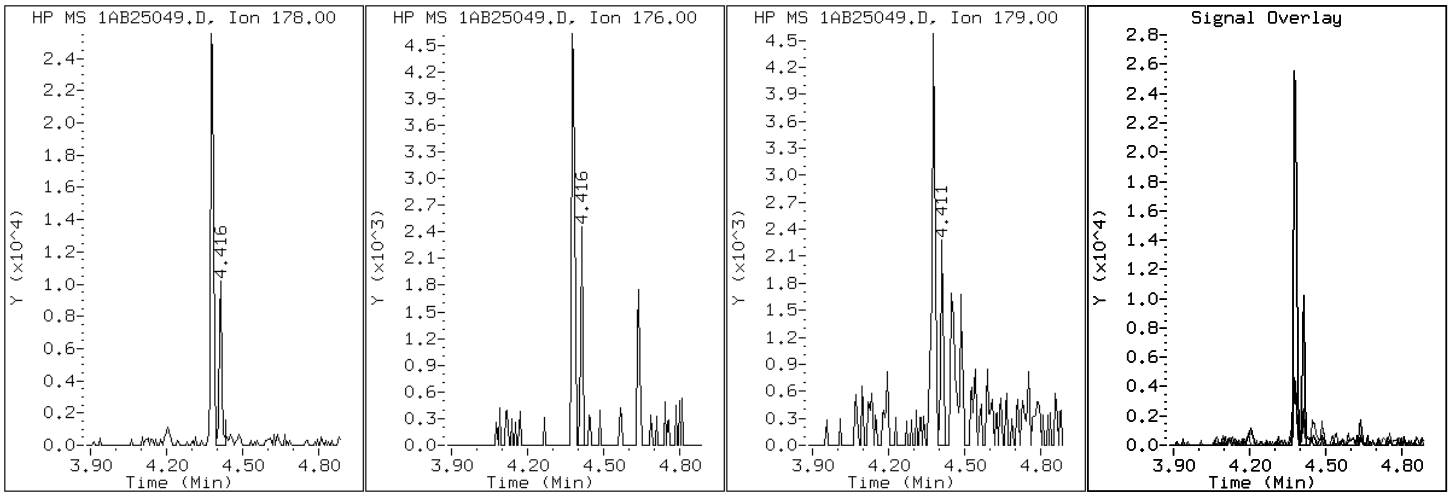
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

12 Anthracene



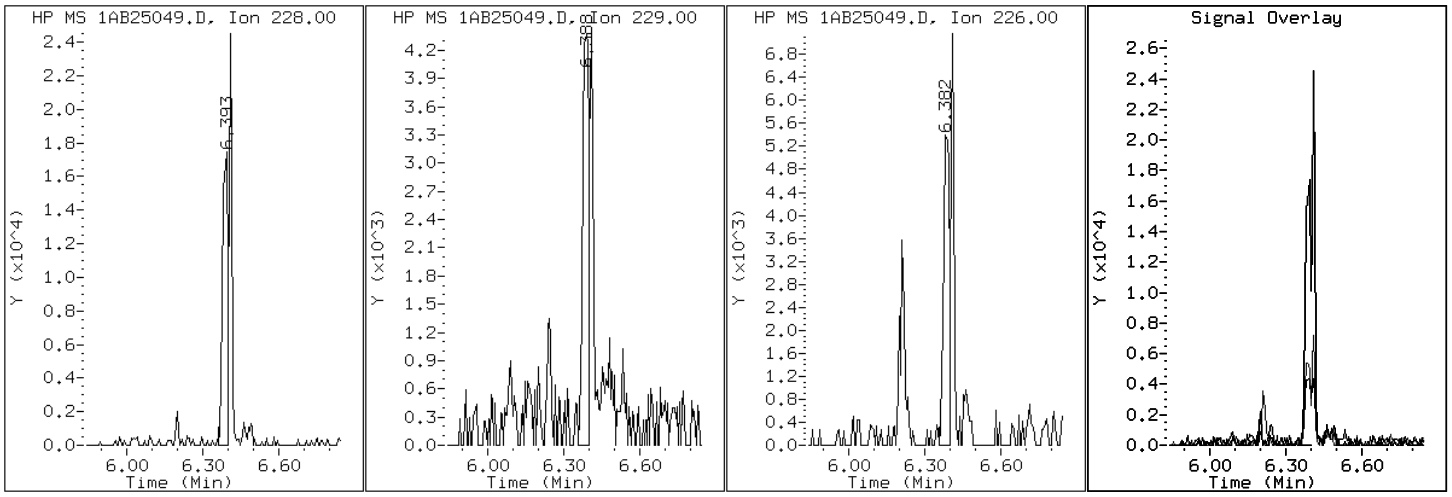
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

17 Benzo(a)anthracene



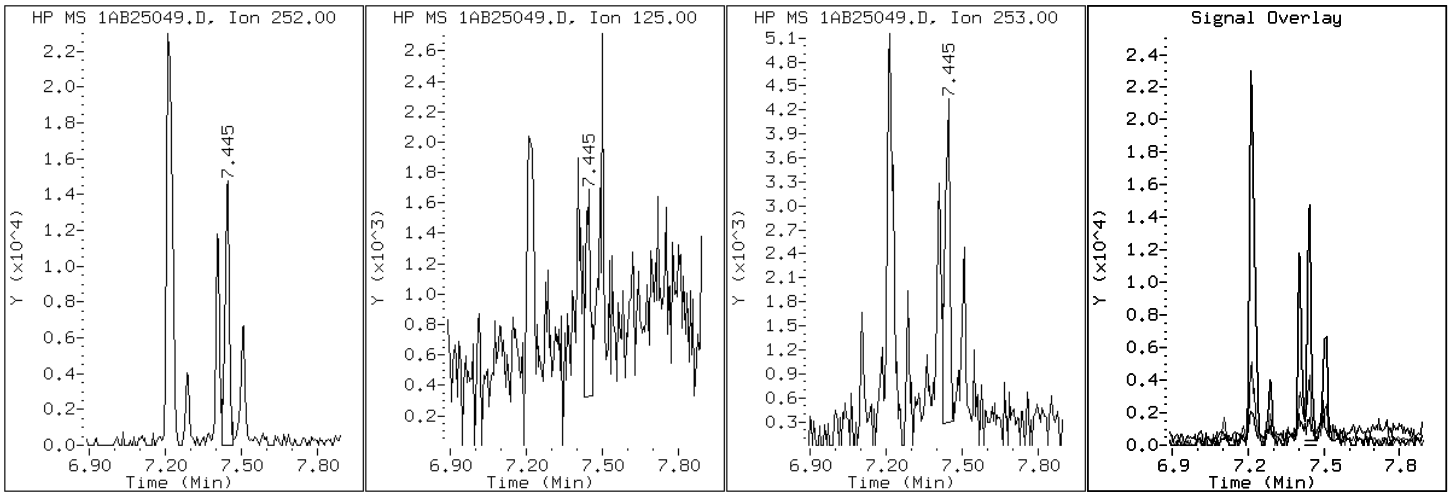
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

22 Benzo(a)pyrene



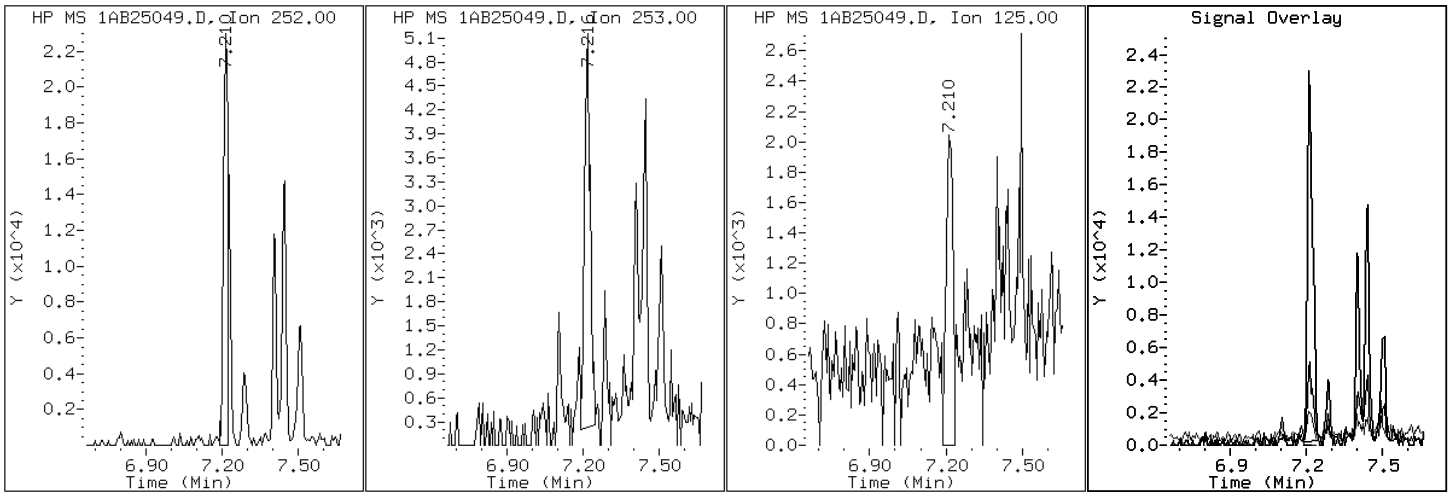
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

20 Benzo(b)fluoranthene



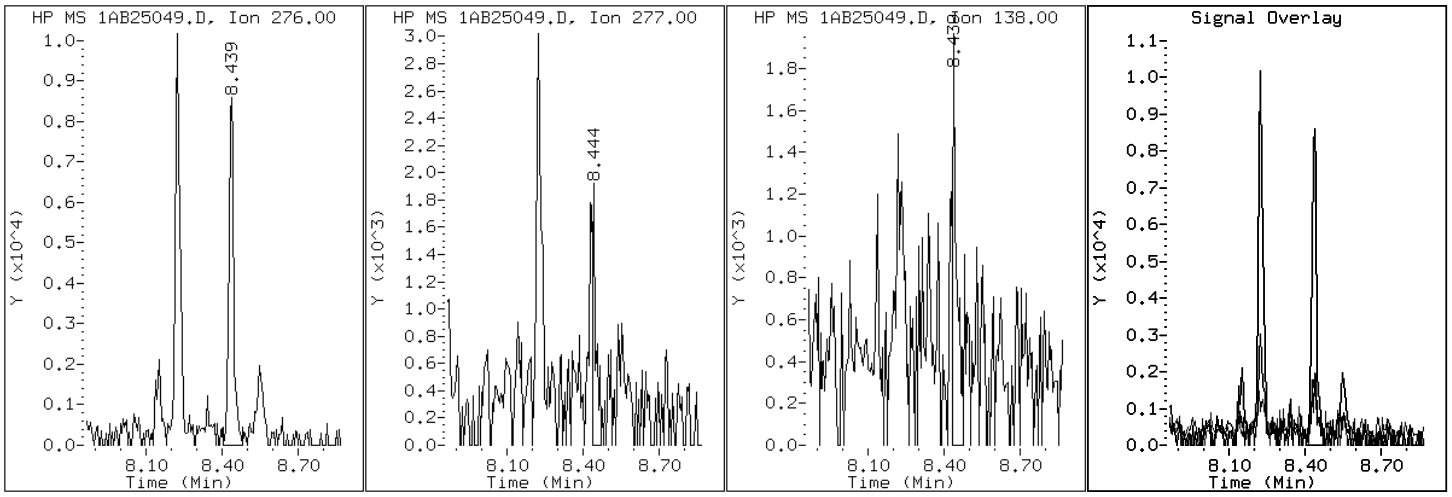
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

26 Benzo(g,h,i)perylene



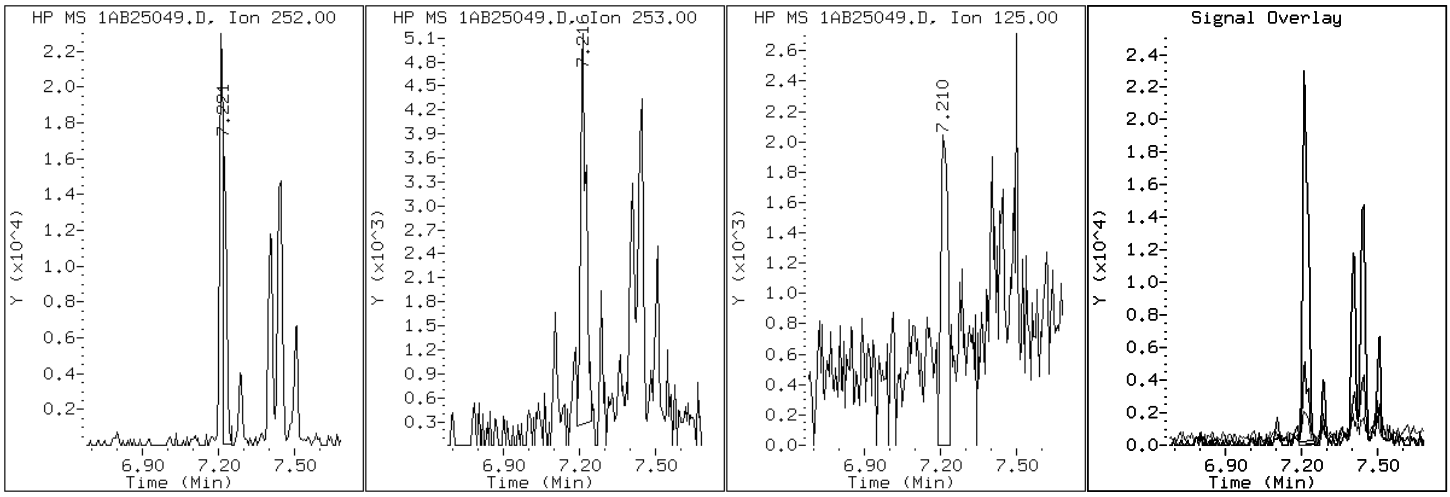
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

21 Benzo(k)fluoranthene



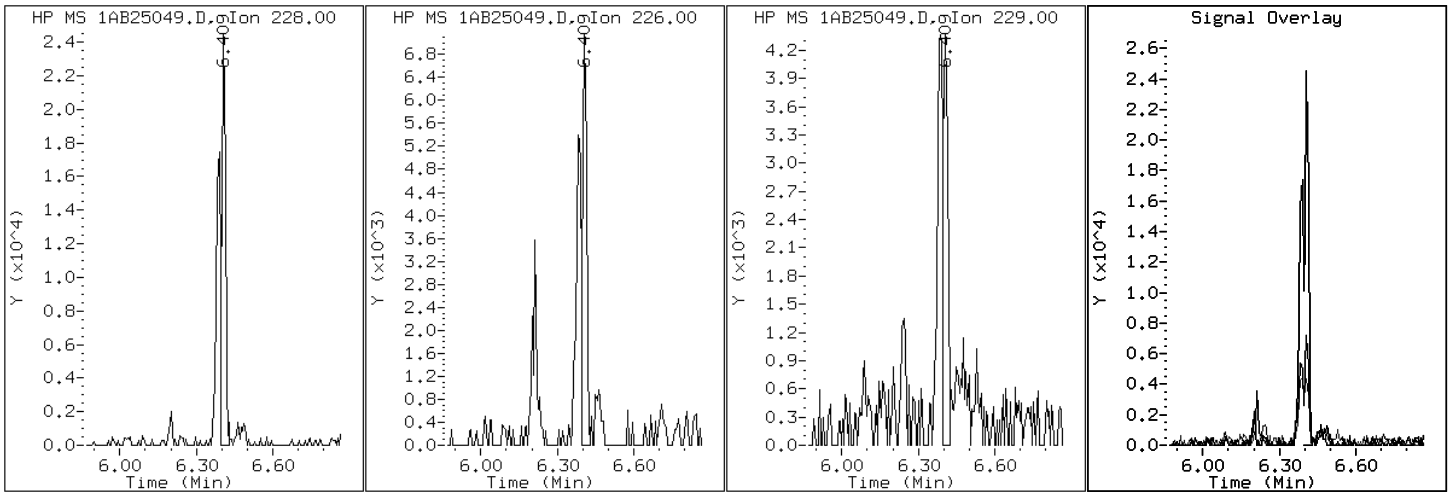
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

19 Chrysene



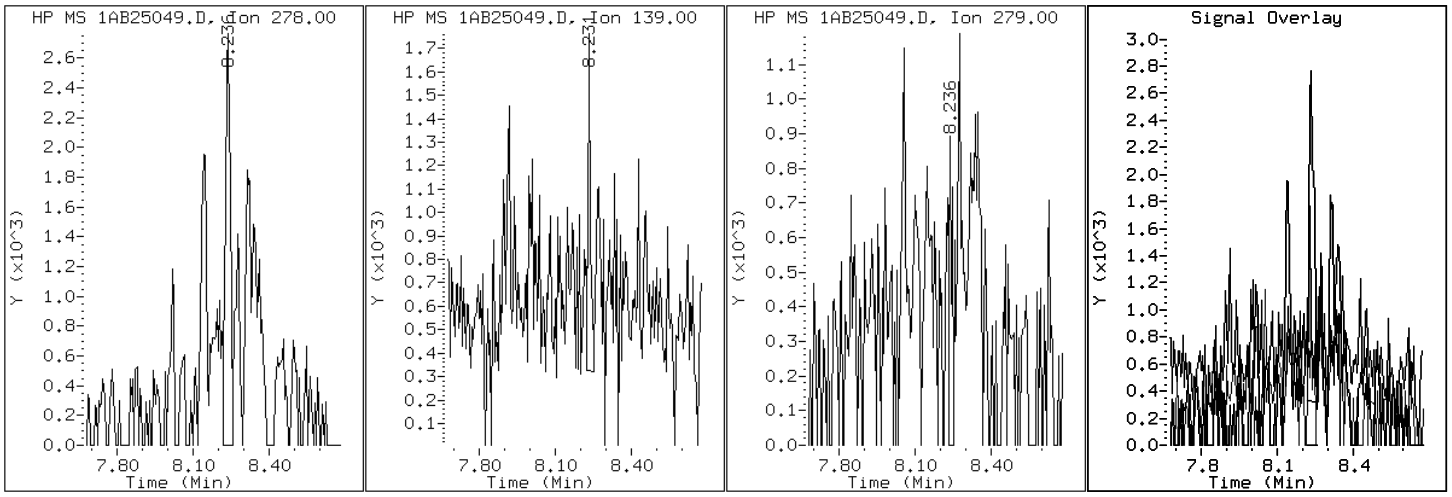
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

25 Dibenzo(a,h)anthracene



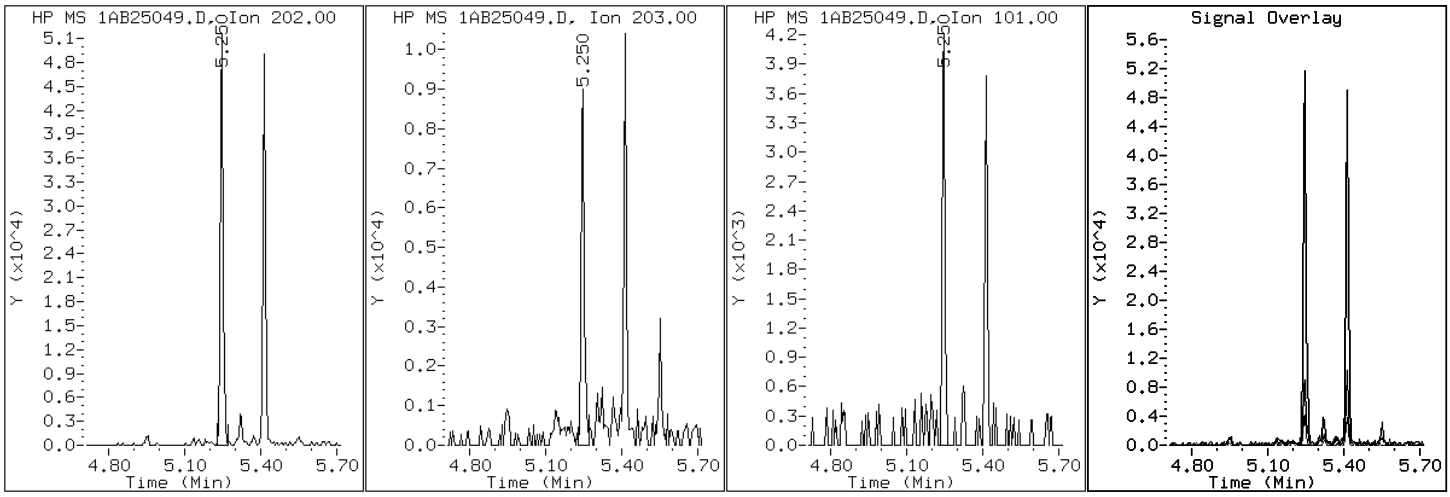
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

15 Fluoranthene



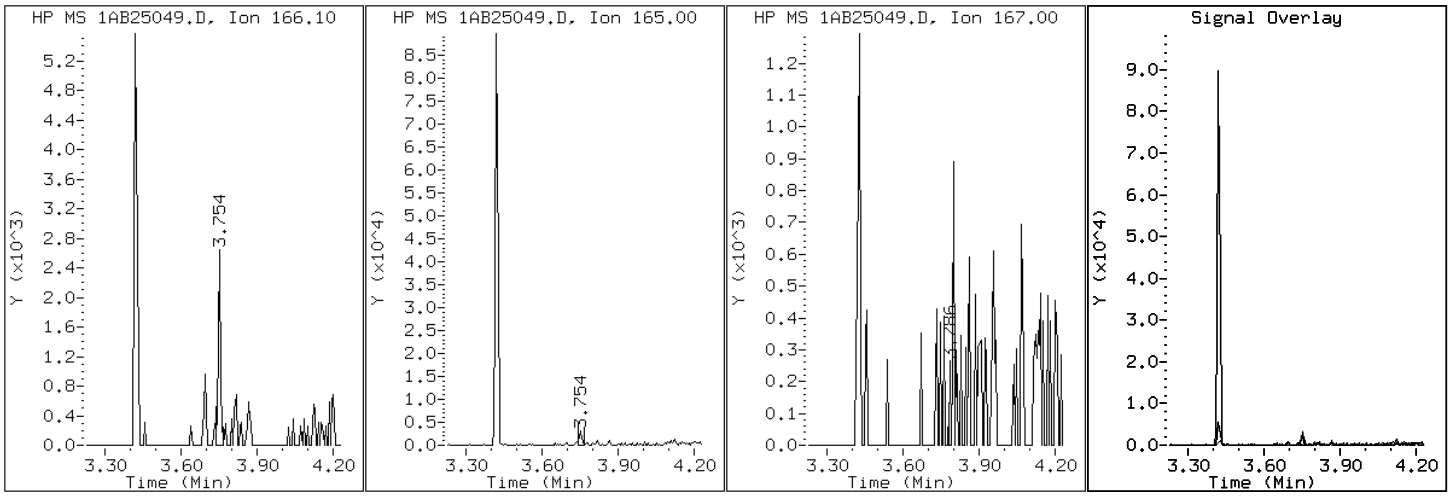
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

9 Fluorene



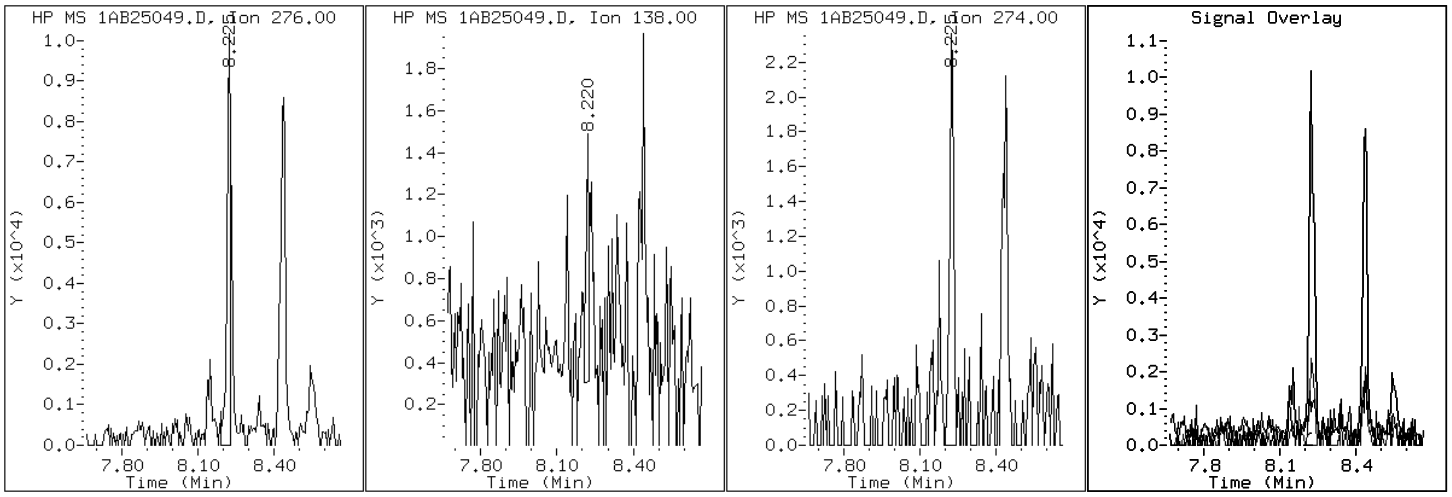
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

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



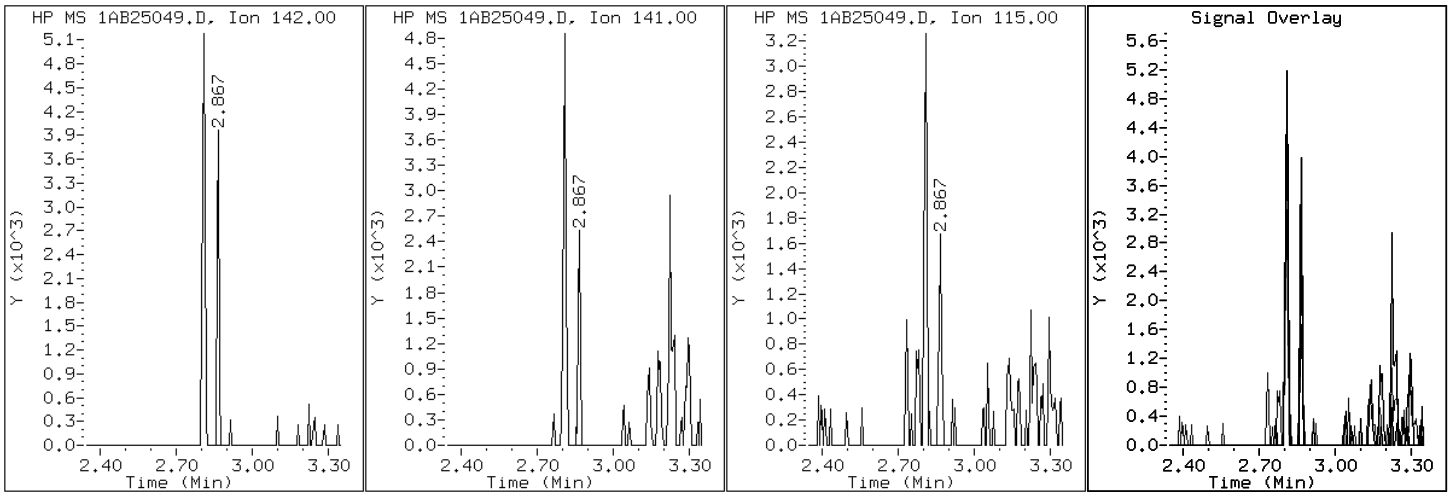
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

4 1-Methylnaphthalene



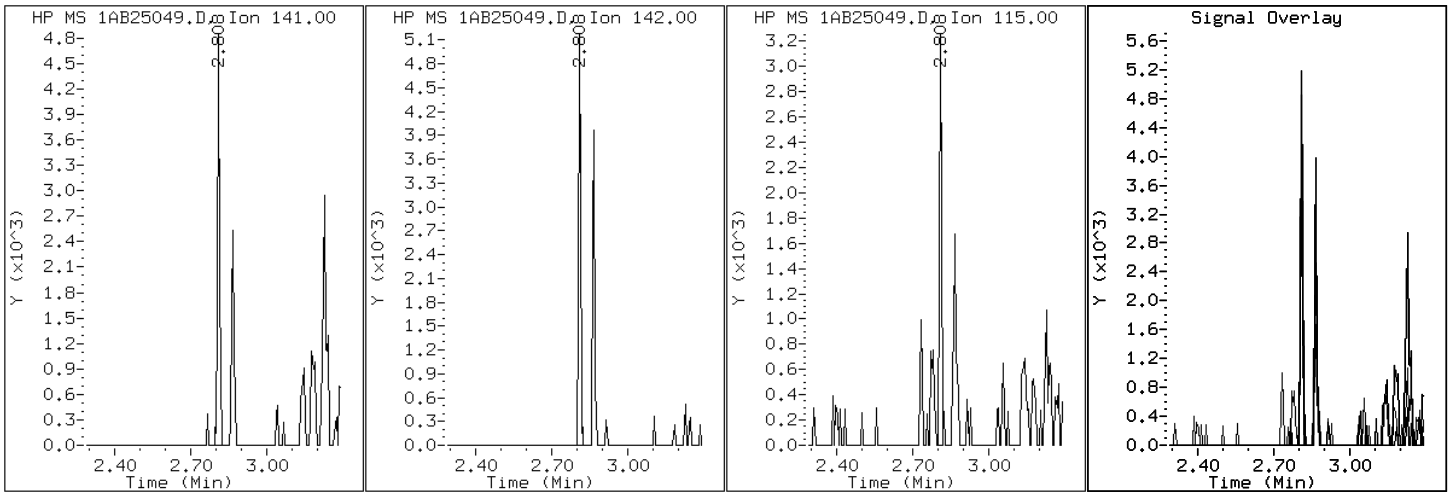
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

3 2-Methylnaphthalene



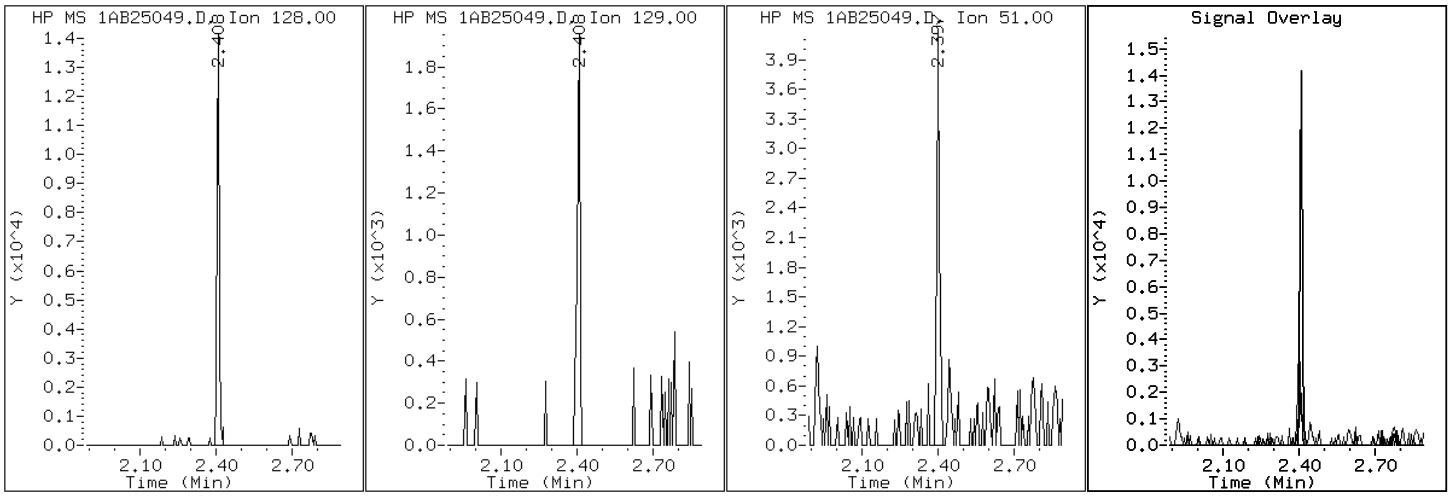
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

2 Naphthalene



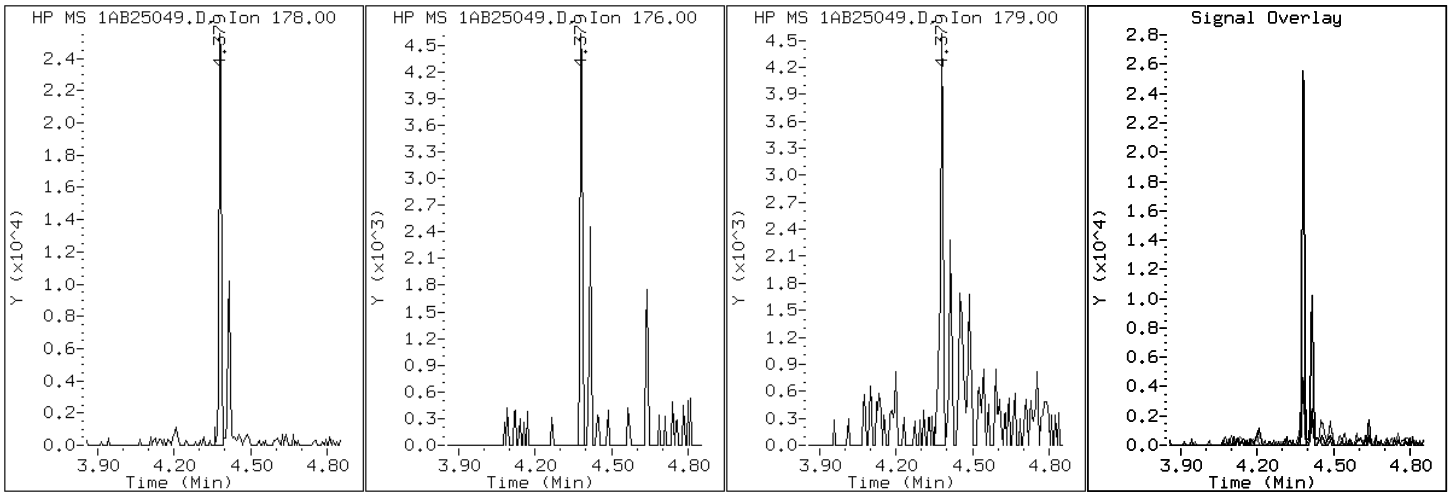
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

11 Phenanthrene



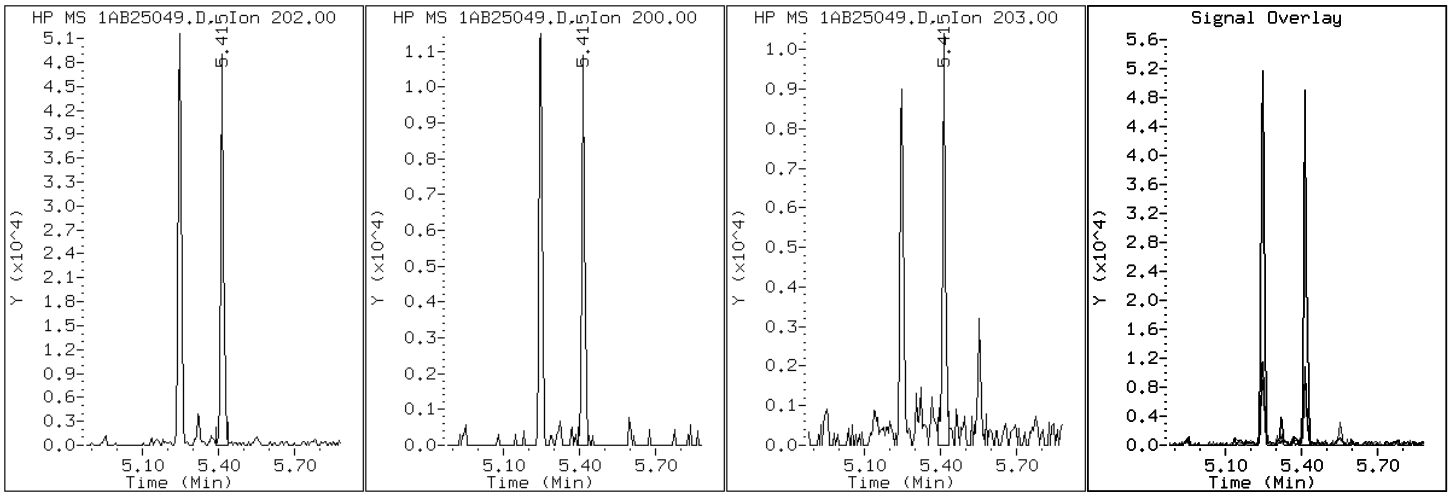
Data File: 1AB25049.D

Date: 26-FEB-2013 01:47

Client ID: Unamed Tributary SD Instrument: BSMA5973.i

Sample Info: 680-87496-A-76-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB25049.D
Inj. Date and Time: 26-FEB-2013 01:47
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary SD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

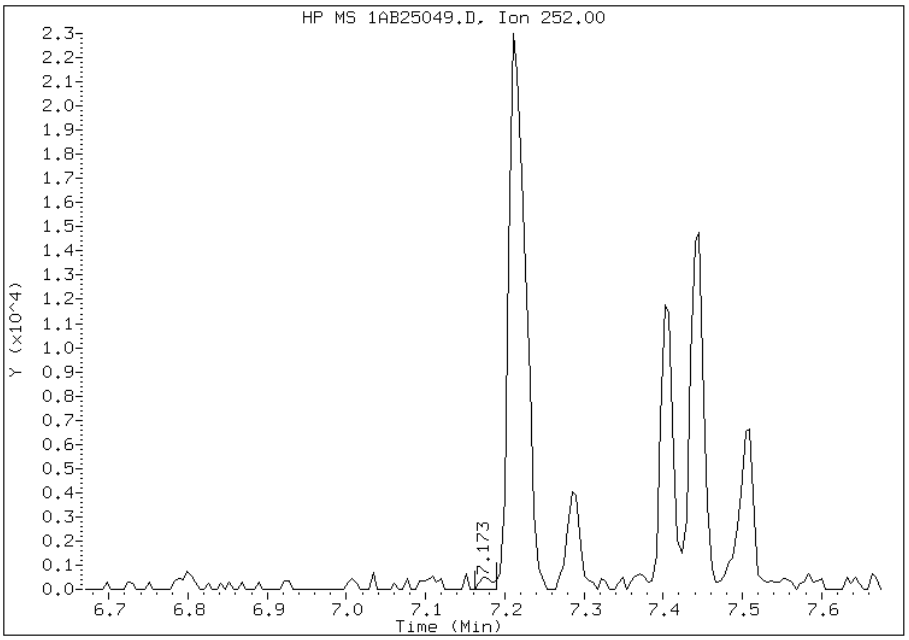
Processing Integration Results

RT: 7.17

Response: 607

Amount: 0

Conc: 4



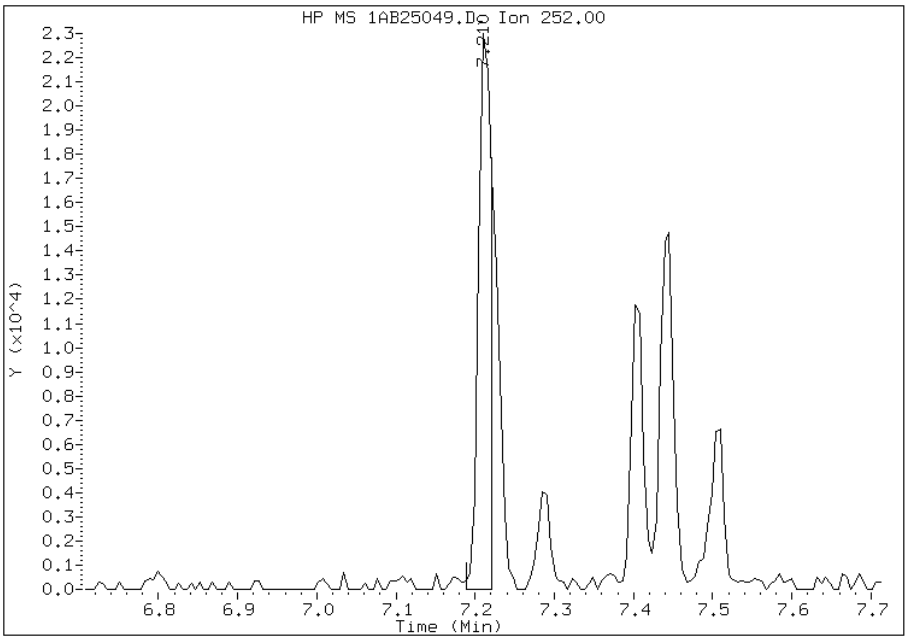
Manual Integration Results

RT: 7.21

Response: 25658

Amount: 2

Conc: 166



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 10:17
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB25049.D
Inj. Date and Time: 26-FEB-2013 01:47
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary SD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

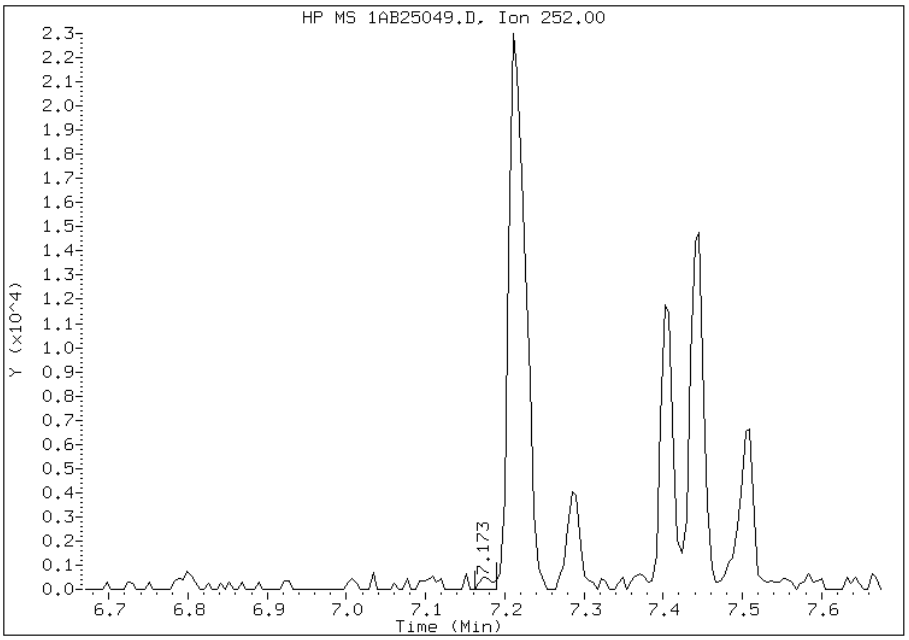
Processing Integration Results

RT: 7.17

Response: 607

Amount: 0

Conc: 4



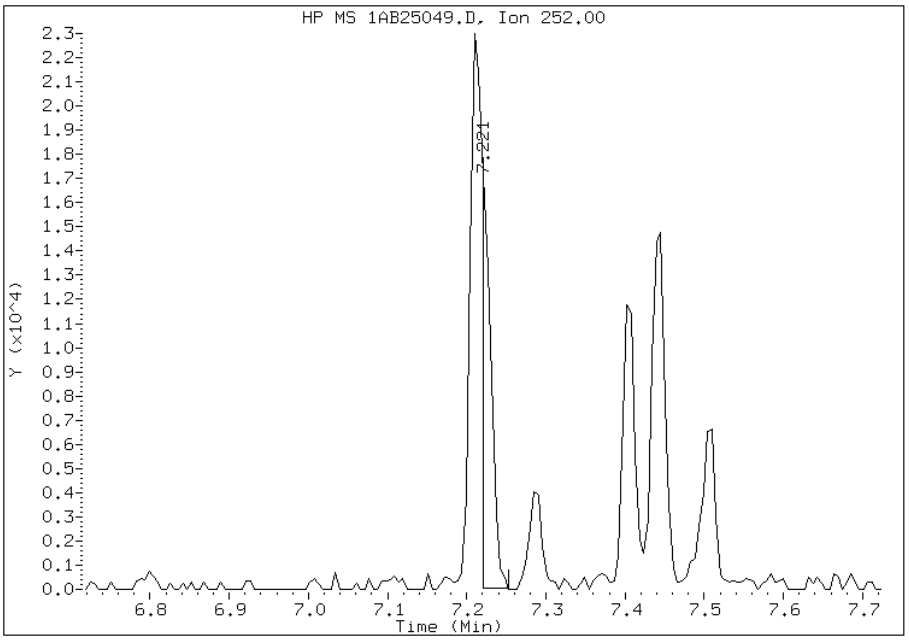
Manual Integration Results

RT: 7.22

Response: 13853

Amount: 1

Conc: 89



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 10:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25049.D
Inj. Date and Time: 26-FEB-2013 01:47
Instrument ID: BSMA5973.i
Client ID: Unamed Tributary SD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

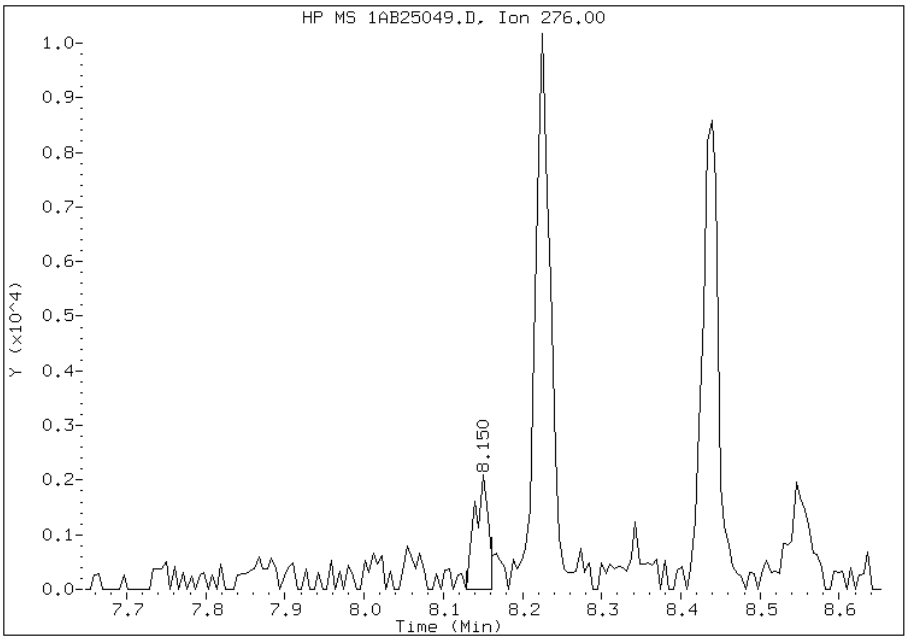
Processing Integration Results

RT: 8.15

Response: 2417

Amount: 0

Conc: 20



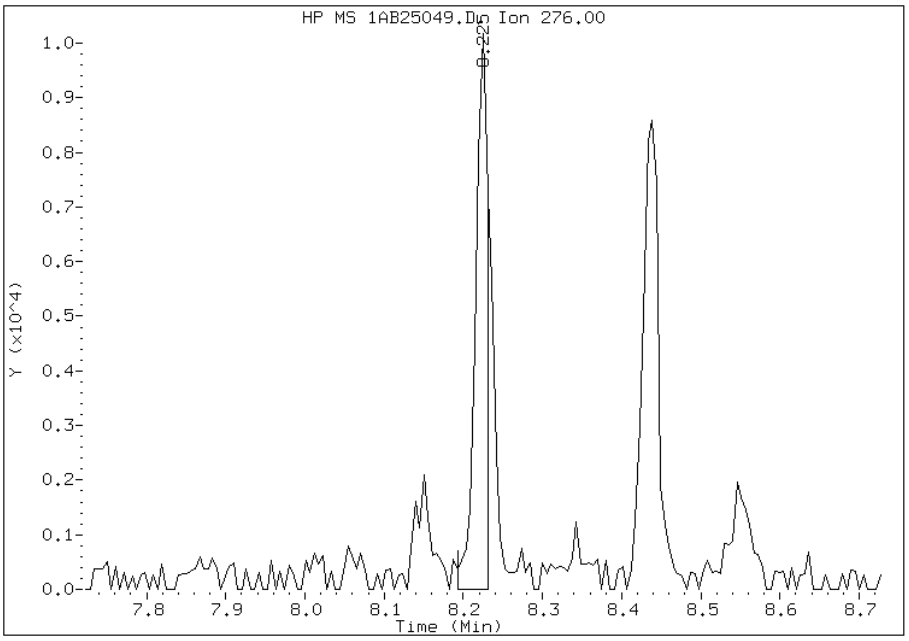
Manual Integration Results

RT: 8.23

Response: 10572

Amount: 1

Conc: 87



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 10:18
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87496-4 Analy Batch No.: 134771

SDG No.: 68087496-4

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134771/3	1AB22003.D
Level 2	IC 660-134771/4	1AB22004.D
Level 3	IC 660-134771/5	1AB22005.D
Level 4	IC 660-134771/6	1AB22006.D
Level 5	ICIS 660-134771/7	1AB22007.D
Level 6	IC 660-134771/8	1AB22008.D
Level 7	IC 660-134771/9	1AB22009.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	0.8964 1.0153	0.9159 1.0399	0.9668	0.9629	0.9496	Ave		0.9639			0.0000	5.3		15.0			
2-Methylnaphthalene	0.5063 0.5277	0.4390 0.5498	0.4723	0.4869	0.5011	Ave		0.4976			0.0000	7.3		15.0			
1-Methylnaphthalene	0.5486 0.5967	0.4750 0.6283	0.5452	0.5377	0.5470	Ave		0.5541			0.0000	8.7		15.0			
Acenaphthylene	1.1966 1.6216	1.3446 1.8173	1.4050	1.4842	1.5855	Ave		1.4935			0.0000	13.6		15.0			
Acenaphthene	0.8808 0.9421	0.7126 1.0791	0.7647	0.8116	0.8502	Ave		0.8630			0.0000	14.1		15.0			
Fluorene	1.1431 1.1704	0.9064 1.3325	0.9874	1.0111	1.0737	Ave		1.0892			0.0000	12.9		15.0			
Phenanthrene	0.9312 1.0691	0.9111 1.1691	0.9176	0.9689	0.9927	Ave		0.9943			0.0000	9.5		15.0			
Anthracene	0.7803 1.0576	0.9213 1.1455	0.8949	0.9850	0.9759	Ave		0.9658			0.0000	12.1		15.0			
Carbazole	0.8186 0.9329	0.8109 0.9551	0.7765	0.8355	0.8385	Ave		0.8526			0.0000	7.7		15.0			
Fluoranthene	0.8986 1.1004	0.8625 1.1530	0.9211	1.0002	1.0230	Ave		0.9941			0.0000	10.8		15.0			
Pyrene	1.0843 1.2795	0.9905 1.3394	1.0929	1.1780	1.2482	Ave		1.1733			0.0000	10.6		15.0			
Benzo[a]anthracene	1.7411 1.1723	1.2086 1.2117	1.1255	1.1892	1.1354	LinF		1.1944			0.0000				0.9990		0.9900
Chrysene	1.1973 1.0763	0.9703 1.0809	1.0168	1.0640	1.0717	Ave		1.0682			0.0000	6.5		15.0			
Benzo[b]fluoranthene	0.9061 1.0772	0.9726 1.1120	0.9385	1.0042	1.0873	Ave		1.0140			0.0000	7.9		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.: 680-87496-4 Analy Batch No.: 134771

SDG No.: 68087496-4

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

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	0.9231 1.0263	0.9685 1.1087	1.0370	1.0317	1.0456	Ave		1.0201			0.0000	5.8		15.0			
Benzo[a]pyrene	0.8117 0.9918	0.8272 1.0398	0.9008	0.9421	0.9868	Ave		0.9286			0.0000	9.3		15.0			
Indeno[1,2,3-cd]pyrene	0.7333 0.8566	0.6724 0.8736	0.7089	0.8640	0.8679	Ave		0.7967			0.0000	11.0		15.0			
Dibenz(a,h)anthracene	0.7469 0.8730	0.7508 0.9377	0.7976	0.8318	0.8737	Ave		0.8302			0.0000	8.5		15.0			
Benzo[g,h,i]perylene	0.7605 0.8858	0.7997 0.9208	0.8165	0.8606	0.8875	Ave		0.8473			0.0000	6.7		15.0			
o-Terphenyl	0.6186 0.6322	0.5097 0.6801	0.5130	0.5639	0.5567	Ave		0.5820			0.0000	11.0		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.: 680-87496-4 Analy Batch No.: 134771

SDG No.: 68087496-4

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134771/3	1AB22003.D
Level 2	IC 660-134771/4	1AB22004.D
Level 3	IC 660-134771/5	1AB22005.D
Level 4	IC 660-134771/6	1AB22006.D
Level 5	ICIS 660-134771/7	1AB22007.D
Level 6	IC 660-134771/8	1AB22008.D
Level 7	IC 660-134771/9	1AB22009.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	4492 755068	23071 1297783	116527	240277	470879	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	2537 392415	11057 686127	56925	121491	248487	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	2749 443774	11965 784083	65710	134180	271250	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	4028 777111	22465 1395142	113930	243677	493767	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	2965 451477	11906 828395	62010	133244	264764	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	3848 560865	15143 1022945	80068	165999	334396	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	4653 768793	22599 1384065	115139	234292	480919	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3899 760474	22852 1356027	112287	238178	472782	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	4090 670812	20113 1130623	97425	202035	406225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	4490 791244	21394 1364989	115579	241853	495614	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4786 842188	22037 1493658	120317	254540	525727	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	7685 771629	26890 1351230	123907	256962	478213	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	5285 708418	21588 1205320	111943	229916	451380	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	4262 734907	23073 1222288	108525	230016	467596	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4342 700196	22977 1218648	119915	236303	449664	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.: 680-87496-4 Analy Batch No.: 134771

SDG No.: 68087496-4

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

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	3818 676641	19624 1142888	104167	215789	424369	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	3449 584416	15951 960232	81971	197900	373229	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3513 595548	17811 1030642	92232	190519	375714	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	3577 604332	18973 1012084	94413	197121	381649	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	3091 454607	12643 805122	64371	136353	269717	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\1A022213.b\1AB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 11:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 3 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	2.389	2.396	(1.000)	1002176	40.0000	
* 6 Acenaphthene-d10	164	3.415	3.416	(1.000)	673260	40.0000	
* 10 Phenanthrene-d10	188	4.355	4.351	(1.000)	999327	40.0000	
$ 14 o-Terphenyl	230	4.628	4.634	(1.063)	3091	0.20000	0.2125
* 18 Chrysene-d12	240	6.364	6.365	(1.000)	882800	40.0000	
* 23 Perylene-d12	264	7.459	7.455	(1.000)	940724	40.0000	
2 Naphthalene	128	2.405	2.401	(1.007)	4492	0.20000	0.1860(Q)
3 2-Methylnaphthalene	141	2.806	2.807	(1.174)	2537	0.20000	0.2035
4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	2749	0.20000	0.1980
5 Acenaphthylene	152	3.330	3.331	(0.975)	4028	0.20000	0.1602
7 Acenaphthene	154	3.431	3.433	(1.005)	2965	0.20000	0.2041
9 Fluorene	166	3.741	3.742	(1.095)	3848	0.20000	0.2098
11 Phenanthrene	178	4.366	4.367	(1.002)	4653	0.20000	0.1873
12 Anthracene	178	4.398	4.399	(1.010)	3899	0.20000	0.1615
13 Carbazole	167	4.553	4.554	(1.045)	4090	0.20000	0.1920
15 Fluoranthene	202	5.226	5.227	(1.200)	4490	0.20000	0.1807
16 Pyrene	202	5.392	5.393	(0.847)	4786	0.20000	0.1848
17 Benzo(a)anthracene	228	6.359	6.355	(0.999)	7685	0.20000	0.2915
19 Chrysene	228	6.375	6.387	(1.002)	5285	0.20000	0.2241
20 Benzo(b)fluoranthene	252	7.171	7.177	(0.961)	4262	0.20000	0.1787
21 Benzo(k)fluoranthene	252	7.192	7.199	(0.964)	4342	0.20000	0.1809
22 Benzo(a)pyrene	252	7.400	7.407	(0.992)	3818	0.20000	0.1748
24 Indeno(1,2,3-cd)pyrene	276	8.175	8.176	(1.096)	3449	0.20000	0.1840(M)
25 Dibenzo(a,h)anthracene	278	8.191	8.192	(1.098)	3513	0.20000	0.1799
26 Benzo(g,h,i)perylene	276	8.378	8.385	(1.123)	3577	0.20000	0.1794

QC Flag Legend

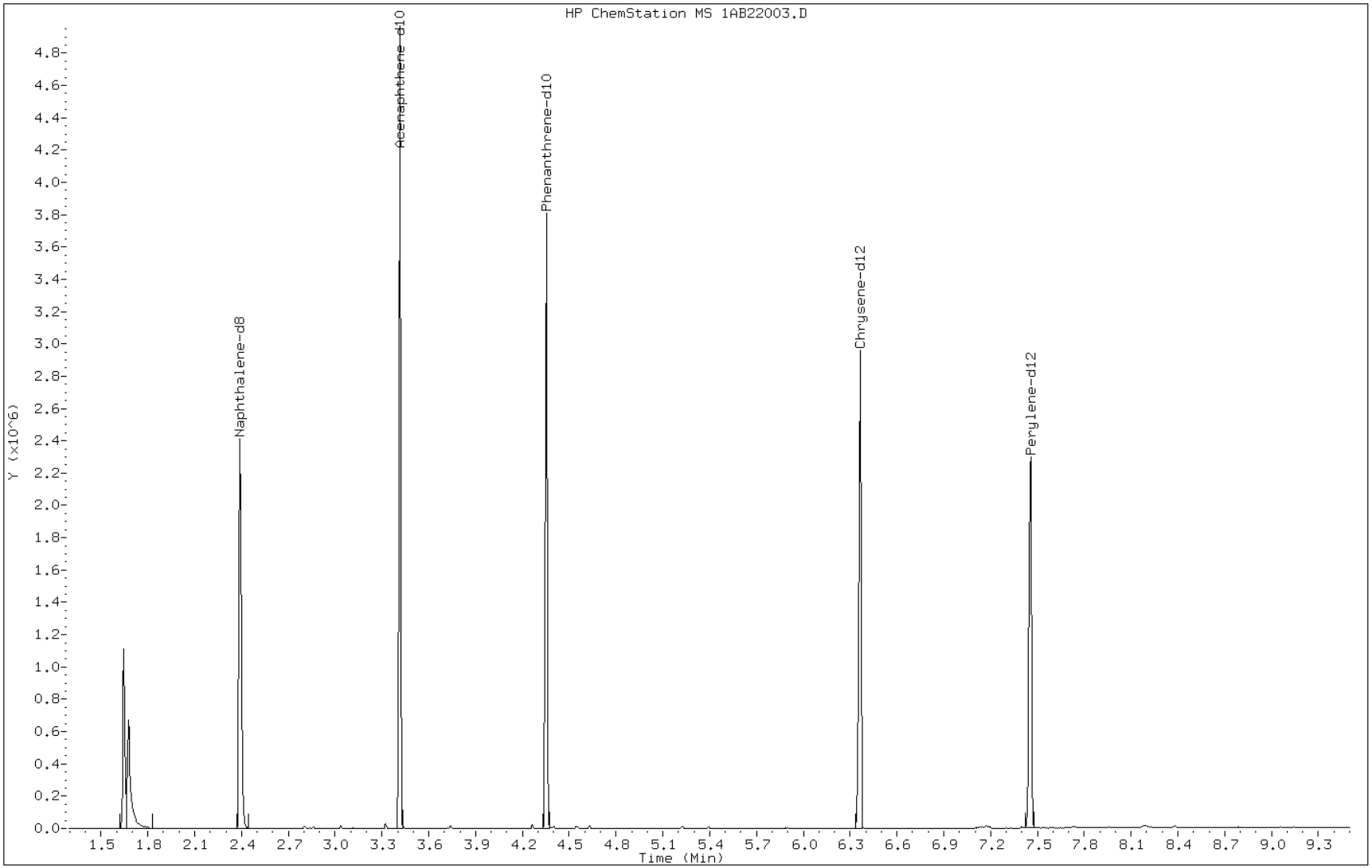
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB22003.D

Date: 22-FEB-2013 11:01

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1AB22003.D
Inj. Date and Time: 22-FEB-2013 11:01
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

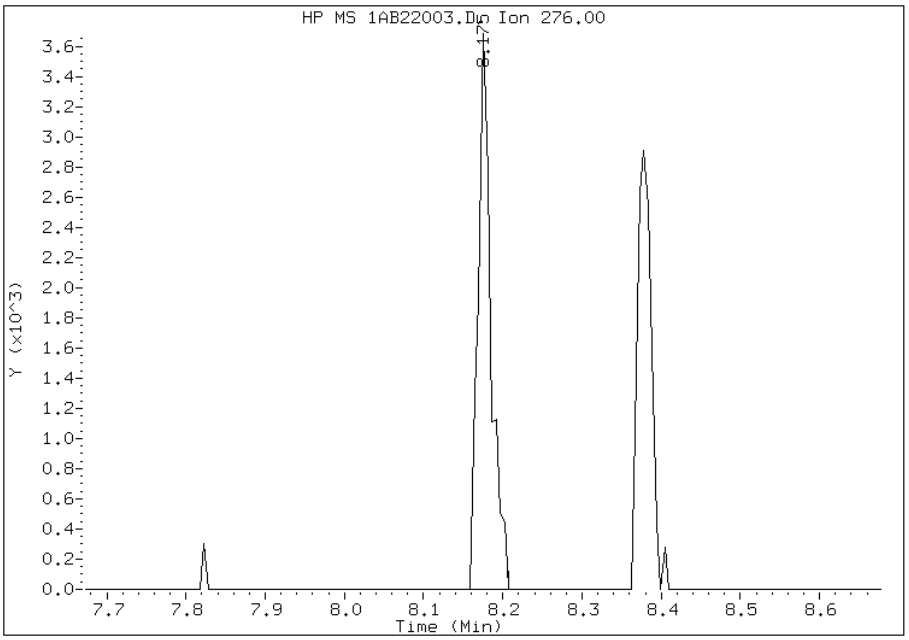
Processing Integration Results

RT: 8.18

Response: 4114

Amount: 0

Conc: 0



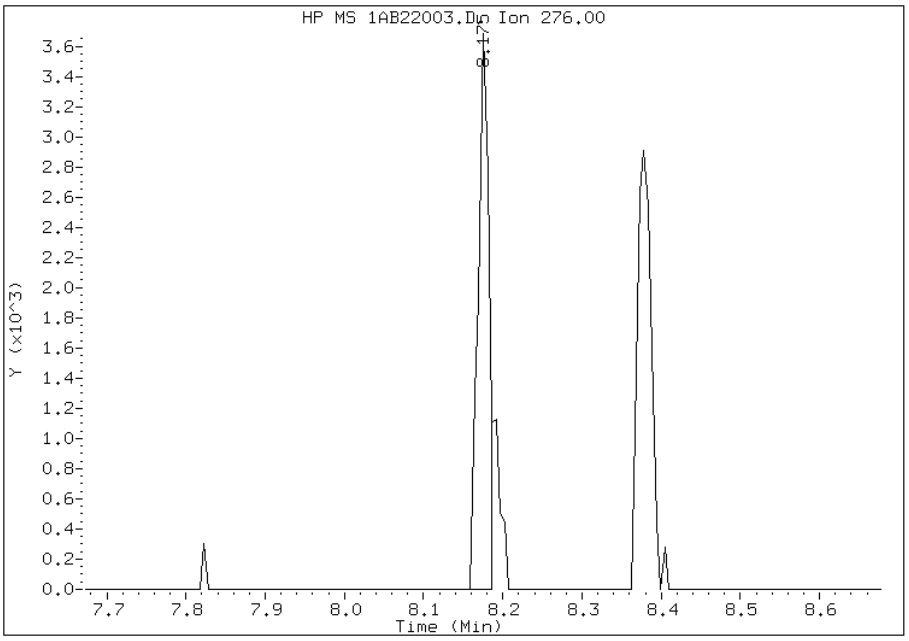
Manual Integration Results

RT: 8.18

Response: 3449

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:53
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 11:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:01 Cal File: 1AB22003.D
Als bottle: 4 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	2.389	2.396	(1.000)	1007546	40.0000	
* 6 Acenaphthene-d10	164	3.414	3.416	(1.000)	668302	40.0000	
* 10 Phenanthrene-d10	188	4.354	4.351	(1.000)	992180	40.0000	
$ 14 o-Terphenyl	230	4.627	4.634	(1.063)	12643	1.00000	0.8757
* 18 Chrysene-d12	240	6.363	6.365	(1.000)	889971	40.0000	
* 23 Perylene-d12	264	7.453	7.455	(1.000)	948962	40.0000	
2 Naphthalene	128	2.399	2.401	(1.004)	23071	1.00000	0.9502(Q)
3 2-Methylnaphthalene	141	2.805	2.807	(1.174)	11057	1.00000	0.8822
4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	11965	1.00000	0.8573
5 Acenaphthylene	152	3.329	3.331	(0.975)	22465	1.00000	0.9002
7 Acenaphthene	154	3.430	3.433	(1.005)	11906	1.00000	0.8257
9 Fluorene	166	3.740	3.742	(1.095)	15143	1.00000	0.8321
11 Phenanthrene	178	4.365	4.367	(1.002)	22599	1.00000	0.9163
12 Anthracene	178	4.397	4.399	(1.010)	22852	1.00000	0.9539
13 Carbazole	167	4.552	4.554	(1.045)	20113	1.00000	0.9511
15 Fluoranthene	202	5.225	5.227	(1.200)	21394	1.00000	0.8676
16 Pyrene	202	5.386	5.393	(0.846)	22037	1.00000	0.8441
17 Benzo(a)anthracene	228	6.347	6.355	(0.997)	26890	1.00000	1.0118
19 Chrysene	228	6.379	6.387	(1.003)	21588	1.00000	0.9083
20 Benzo(b)fluoranthene	252	7.170	7.177	(0.962)	23073	1.00000	0.9591
21 Benzo(k)fluoranthene	252	7.191	7.199	(0.965)	22977	1.00000	0.9493
22 Benzo(a)pyrene	252	7.399	7.407	(0.993)	19624	1.00000	0.8907
24 Indeno(1,2,3-cd)pyrene	276	8.169	8.176	(1.096)	15951	1.00000	0.8439(M)
25 Dibenzo(a,h)anthracene	278	8.179	8.192	(1.097)	17811	1.00000	0.9043
26 Benzo(g,h,i)perylene	276	8.372	8.385	(1.123)	18973	1.00000	0.9438

QC Flag Legend

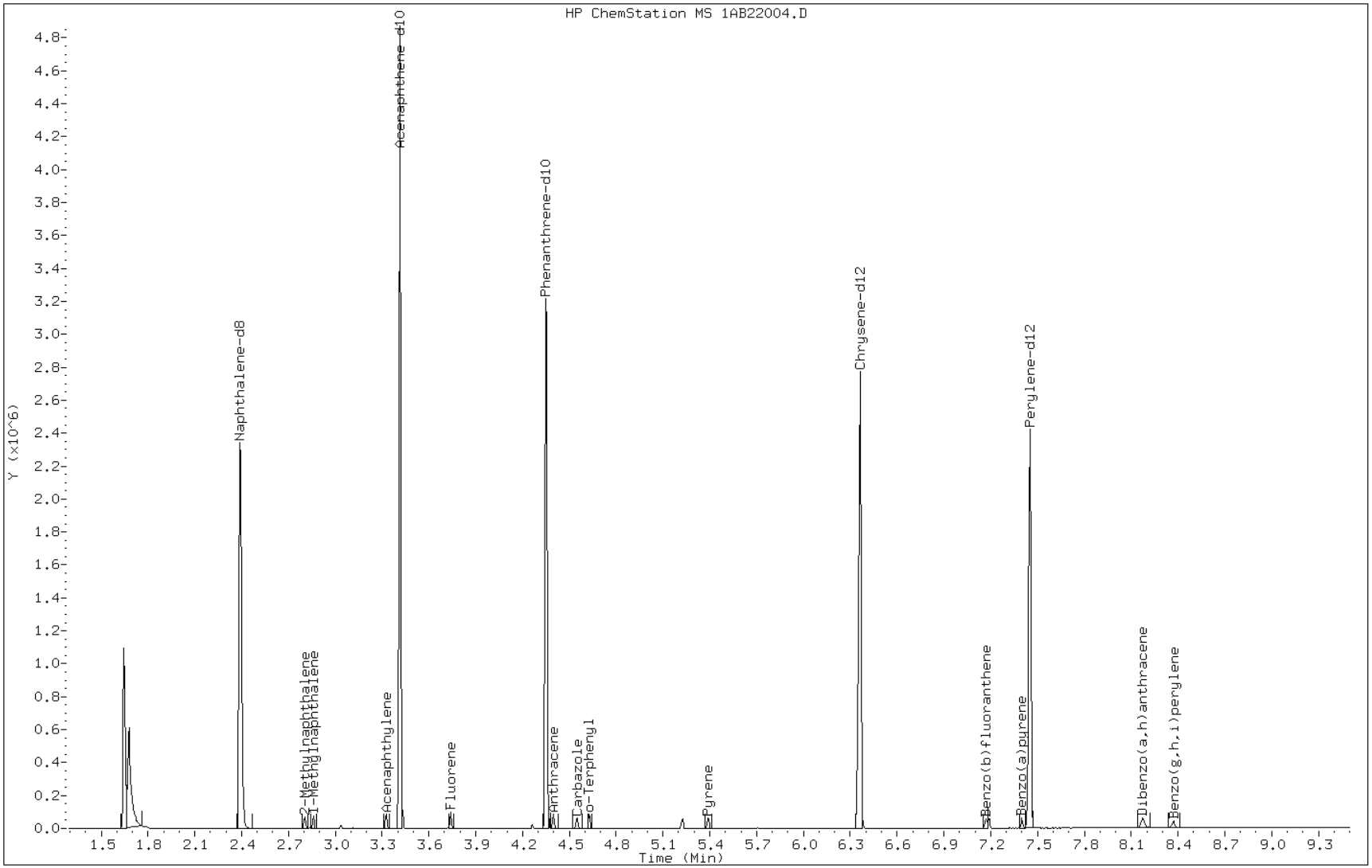
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB22004.D

Date: 22-FEB-2013 11:16

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1AB22004.D
Inj. Date and Time: 22-FEB-2013 11:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

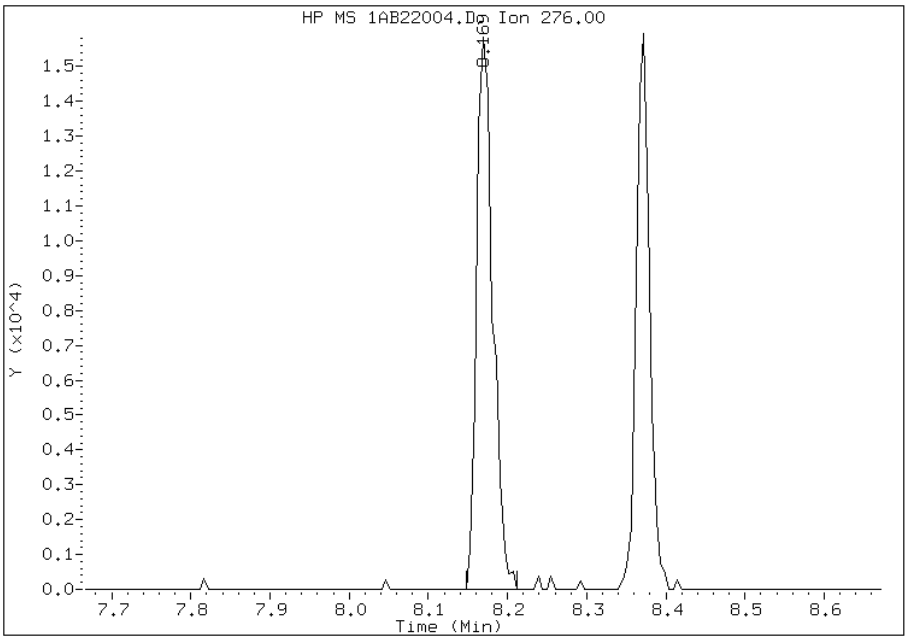
Processing Integration Results

RT: 8.17

Response: 22224

Amount: 1

Conc: 1



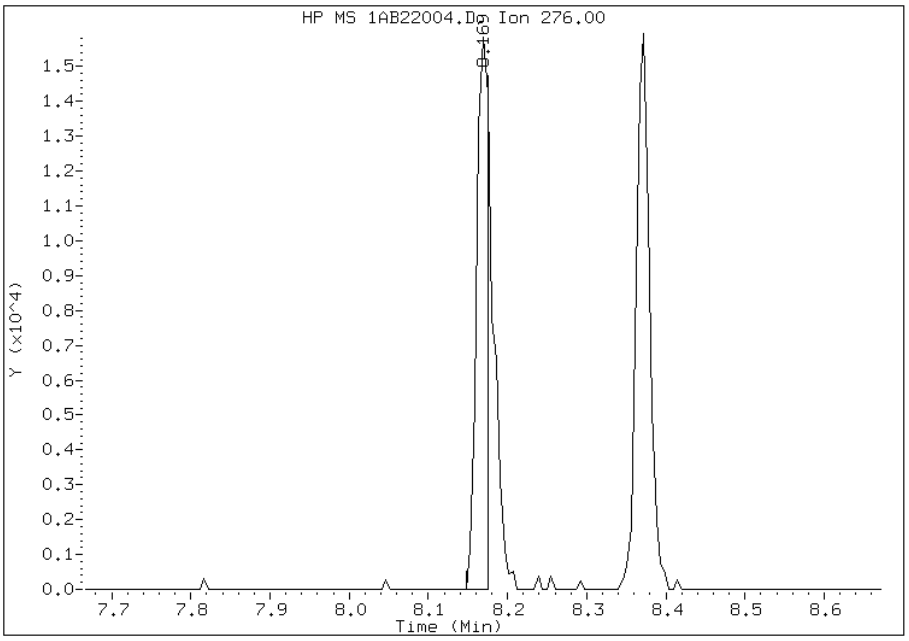
Manual Integration Results

RT: 8.17

Response: 15951

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 11:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:16 Cal File: 1AB22004.D
Als bottle: 5 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	2.394	2.396	(1.000)	964215	40.0000	
* 6 Acenaphthene-d10	164	3.414	3.416	(1.000)	648695	40.0000	
* 10 Phenanthrene-d10	188	4.349	4.351	(1.000)	1003789	40.0000	
$ 14 o-Terphenyl	230	4.627	4.634	(1.064)	64371	5.00000	4.4071
* 18 Chrysene-d12	240	6.363	6.365	(1.000)	880707	40.0000	
* 23 Perylene-d12	264	7.453	7.455	(1.000)	925085	40.0000	
2 Naphthalene	128	2.404	2.401	(1.004)	116527	5.00000	5.0153
3 2-Methylnaphthalene	141	2.805	2.807	(1.172)	56925	5.00000	4.7460
4 1-Methylnaphthalene	142	2.858	2.861	(1.194)	65710	5.00000	4.9197
5 Acenaphthylene	152	3.329	3.331	(0.975)	113930	5.00000	4.7037
7 Acenaphthene	154	3.430	3.433	(1.005)	62010	5.00000	4.4306
9 Fluorene	166	3.740	3.742	(1.095)	80068	5.00000	4.5327
11 Phenanthrene	178	4.365	4.367	(1.004)	115139	5.00000	4.6146
12 Anthracene	178	4.397	4.399	(1.011)	112287	5.00000	4.6330
13 Carbazole	167	4.547	4.554	(1.045)	97425	5.00000	4.5537
15 Fluoranthene	202	5.220	5.227	(1.200)	115579	5.00000	4.6329
16 Pyrene	202	5.391	5.393	(0.847)	120317	5.00000	4.6576
17 Benzo(a)anthracene	228	6.352	6.355	(0.998)	123907	5.00000	4.7117
19 Chrysene	228	6.379	6.387	(1.003)	111943	5.00000	4.7596
20 Benzo(b)fluoranthene	252	7.170	7.177	(0.962)	108525	5.00000	4.6277
21 Benzo(k)fluoranthene	252	7.191	7.199	(0.965)	119915	5.00000	5.0826
22 Benzo(a)pyrene	252	7.399	7.407	(0.993)	104167	5.00000	4.8503
24 Indeno(1,2,3-cd)pyrene	276	8.169	8.176	(1.096)	81971	5.00000	4.4490(M)
25 Dibenzo(a,h)anthracene	278	8.185	8.192	(1.098)	92232	5.00000	4.8037
26 Benzo(g,h,i)perylene	276	8.372	8.385	(1.123)	94413	5.00000	4.8178

QC Flag Legend

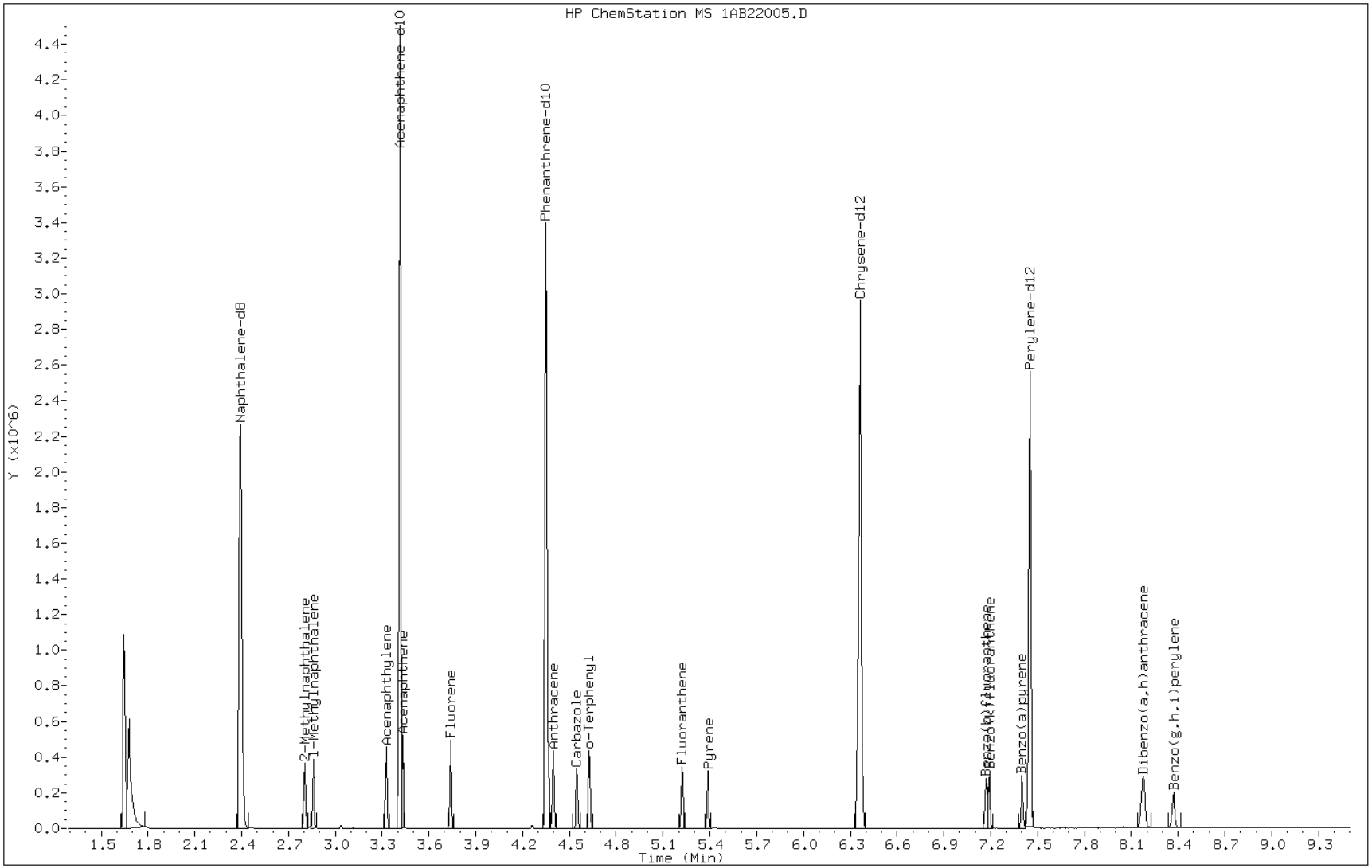
M - Compound response manually integrated.

Data File: 1AB22005.D

Date: 22-FEB-2013 11:31

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1AB22005.D
Inj. Date and Time: 22-FEB-2013 11:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

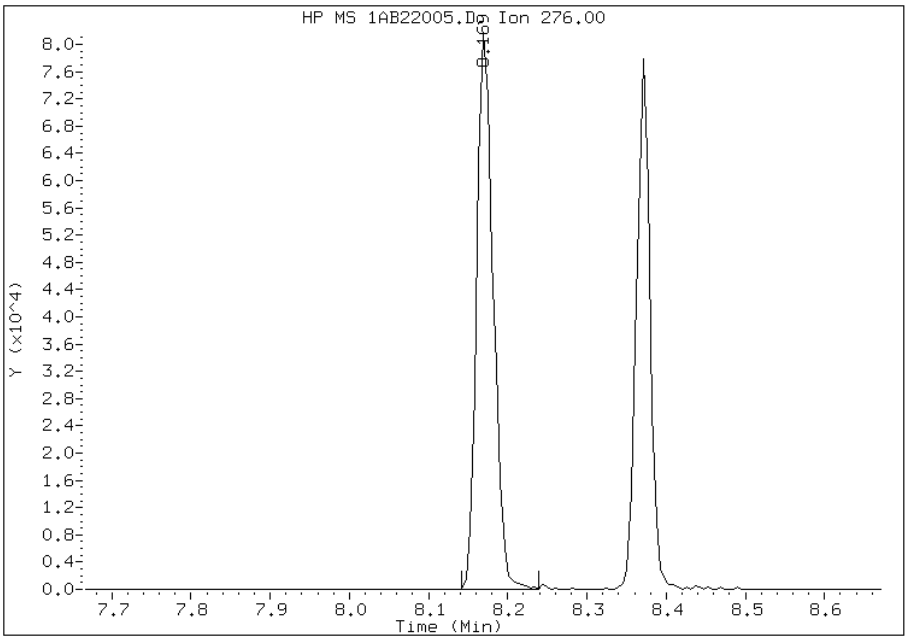
Processing Integration Results

RT: 8.17

Response: 116998

Amount: 6

Conc: 6



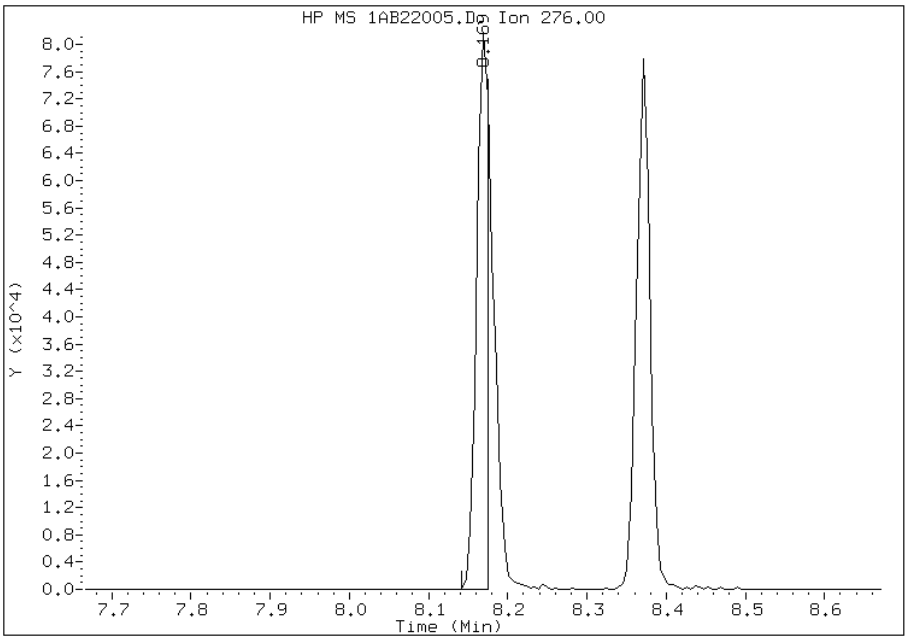
Manual Integration Results

RT: 8.17

Response: 81971

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 11:47
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:31 Cal File: 1AB22005.D
Als bottle: 6 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	2.391	2.396	(1.000)	998088	40.0000	
* 6 Acenaphthene-d10	164	3.417	3.416	(1.000)	656726	40.0000	
* 10 Phenanthrene-d10	188	4.352	4.351	(1.000)	967220	40.0000	
$ 14 o-Terphenyl	230	4.630	4.634	(1.064)	136353	10.0000	9.6882
* 18 Chrysene-d12	240	6.366	6.365	(1.000)	864311	40.0000	
* 23 Perylene-d12	264	7.456	7.455	(1.000)	916189	40.0000	
2 Naphthalene	128	2.402	2.401	(1.004)	240277	10.0000	9.9906
3 2-Methylnaphthalene	141	2.803	2.807	(1.172)	121491	10.0000	9.7853
4 1-Methylnaphthalene	142	2.861	2.861	(1.197)	134180	10.0000	9.7051
5 Acenaphthylene	152	3.331	3.331	(0.975)	243677	10.0000	9.9374
7 Acenaphthene	154	3.433	3.433	(1.005)	133244	10.0000	9.4039
9 Fluorene	166	3.743	3.742	(1.095)	165999	10.0000	9.2825
11 Phenanthrene	178	4.368	4.367	(1.004)	234292	10.0000	9.7451
12 Anthracene	178	4.400	4.399	(1.011)	238178	10.0000	10.1990
13 Carbazole	167	4.549	4.554	(1.045)	202035	10.0000	9.8003
15 Fluoranthene	202	5.222	5.227	(1.200)	241853	10.0000	10.0611
16 Pyrene	202	5.393	5.393	(0.847)	254540	10.0000	10.0404
17 Benzo(a)anthracene	228	6.355	6.355	(0.998)	256962	10.0000	9.9568
19 Chrysene	228	6.382	6.387	(1.003)	229916	10.0000	9.9611
20 Benzo(b)fluoranthene	252	7.172	7.177	(0.962)	230016	10.0000	9.9036
21 Benzo(k)fluoranthene	252	7.194	7.199	(0.965)	236303	10.0000	10.1130
22 Benzo(a)pyrene	252	7.402	7.407	(0.993)	215789	10.0000	10.1454
24 Indeno(1,2,3-cd)pyrene	276	8.171	8.176	(1.096)	197900	10.0000	10.8454(M)
25 Dibenzo(a,h)anthracene	278	8.187	8.192	(1.098)	190519	10.0000	10.0192
26 Benzo(g,h,i)perylene	276	8.374	8.385	(1.123)	197121	10.0000	10.1566

QC Flag Legend

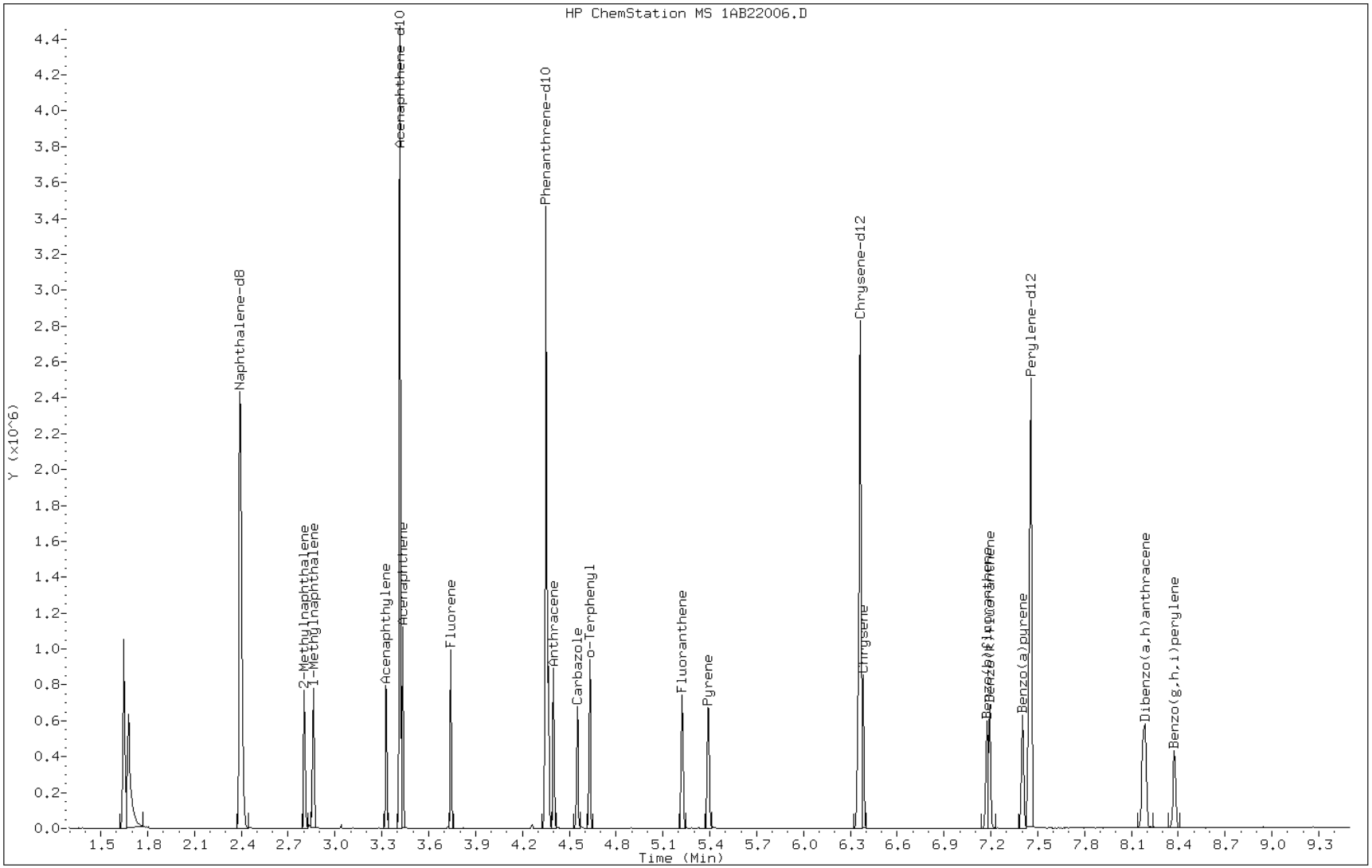
M - Compound response manually integrated.

Data File: 1AB22006.D

Date: 22-FEB-2013 11:47

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

Data File: 1AB22006.D
Inj. Date and Time: 22-FEB-2013 11:47
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

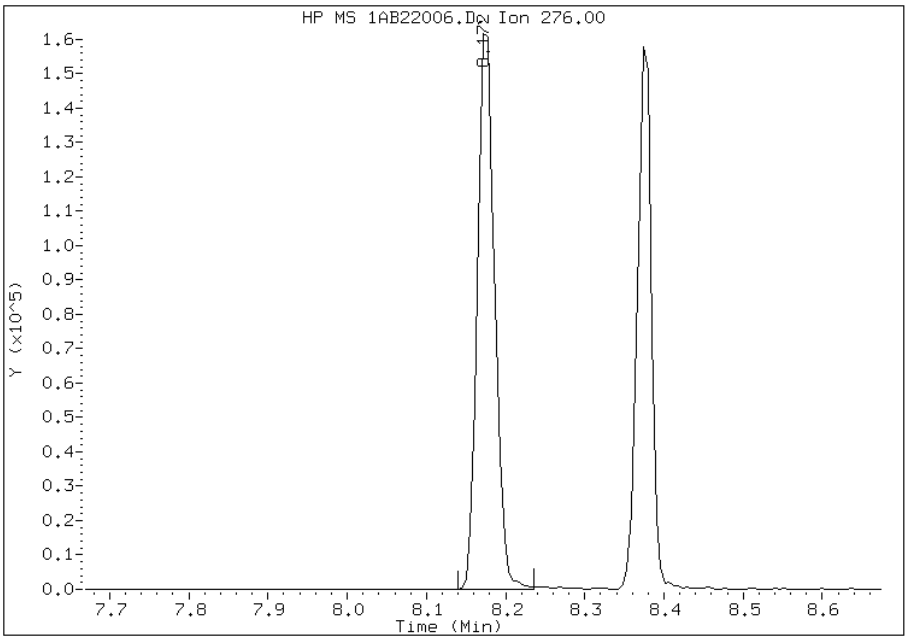
Processing Integration Results

RT: 8.17

Response: 242829

Amount: 11

Conc: 11



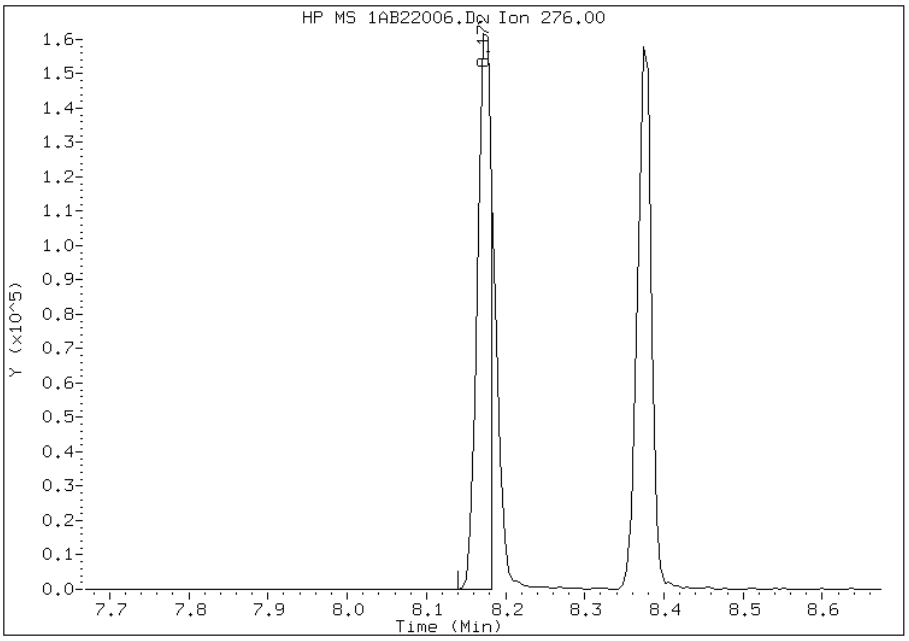
Manual Integration Results

RT: 8.17

Response: 197900

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 12:02
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:47 Cal File: 1AB22006.D
Als bottle: 7 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	2.396	2.396	(1.000)	991704	40.0000	
* 6 Acenaphthene-d10	164	3.416	3.416	(1.000)	622858	40.0000	
* 10 Phenanthrene-d10	188	4.351	4.351	(1.000)	968921	40.0000	
$ 14 o-Terphenyl	230	4.634	4.634	(1.065)	269717	20.0000	19.1304
* 18 Chrysene-d12	240	6.365	6.365	(1.000)	842371	40.0000	
* 23 Perylene-d12	264	7.455	7.455	(1.000)	860097	40.0000	
2 Naphthalene	128	2.401	2.401	(1.002)	470879	20.0000	19.7050
3 2-Methylnaphthalene	141	2.807	2.807	(1.172)	248487	20.0000	20.1429
4 1-Methylnaphthalene	142	2.861	2.861	(1.194)	271250	20.0000	19.7457
5 Acenaphthylene	152	3.331	3.331	(0.975)	493767	20.0000	21.2312
7 Acenaphthene	154	3.433	3.433	(1.005)	264764	20.0000	19.7023
9 Fluorene	166	3.742	3.742	(1.095)	334396	20.0000	19.7158
11 Phenanthrene	178	4.367	4.367	(1.004)	480919	20.0000	19.9683
12 Anthracene	178	4.399	4.399	(1.011)	472782	20.0000	20.2094
13 Carbazole	167	4.554	4.554	(1.047)	406225	20.0000	19.6706
15 Fluoranthene	202	5.227	5.227	(1.201)	495614	20.0000	20.5813
16 Pyrene	202	5.393	5.393	(0.847)	525727	20.0000	21.2776
17 Benzo(a)anthracene	228	6.355	6.355	(0.998)	478213	20.0000	19.0125
19 Chrysene	228	6.387	6.387	(1.003)	451380	20.0000	20.0655
20 Benzo(b)fluoranthene	252	7.177	7.177	(0.963)	467596	20.0000	21.4460
21 Benzo(k)fluoranthene	252	7.199	7.199	(0.966)	449664	20.0000	20.4993
22 Benzo(a)pyrene	252	7.407	7.407	(0.994)	424369	20.0000	21.2532
24 Indeno(1,2,3-cd)pyrene	276	8.176	8.176	(1.097)	373229	20.0000	21.7877(M)
25 Dibenzo(a,h)anthracene	278	8.192	8.192	(1.099)	375714	20.0000	21.0471
26 Benzo(g,h,i)perylene	276	8.385	8.385	(1.125)	381649	20.0000	20.9468

QC Flag Legend

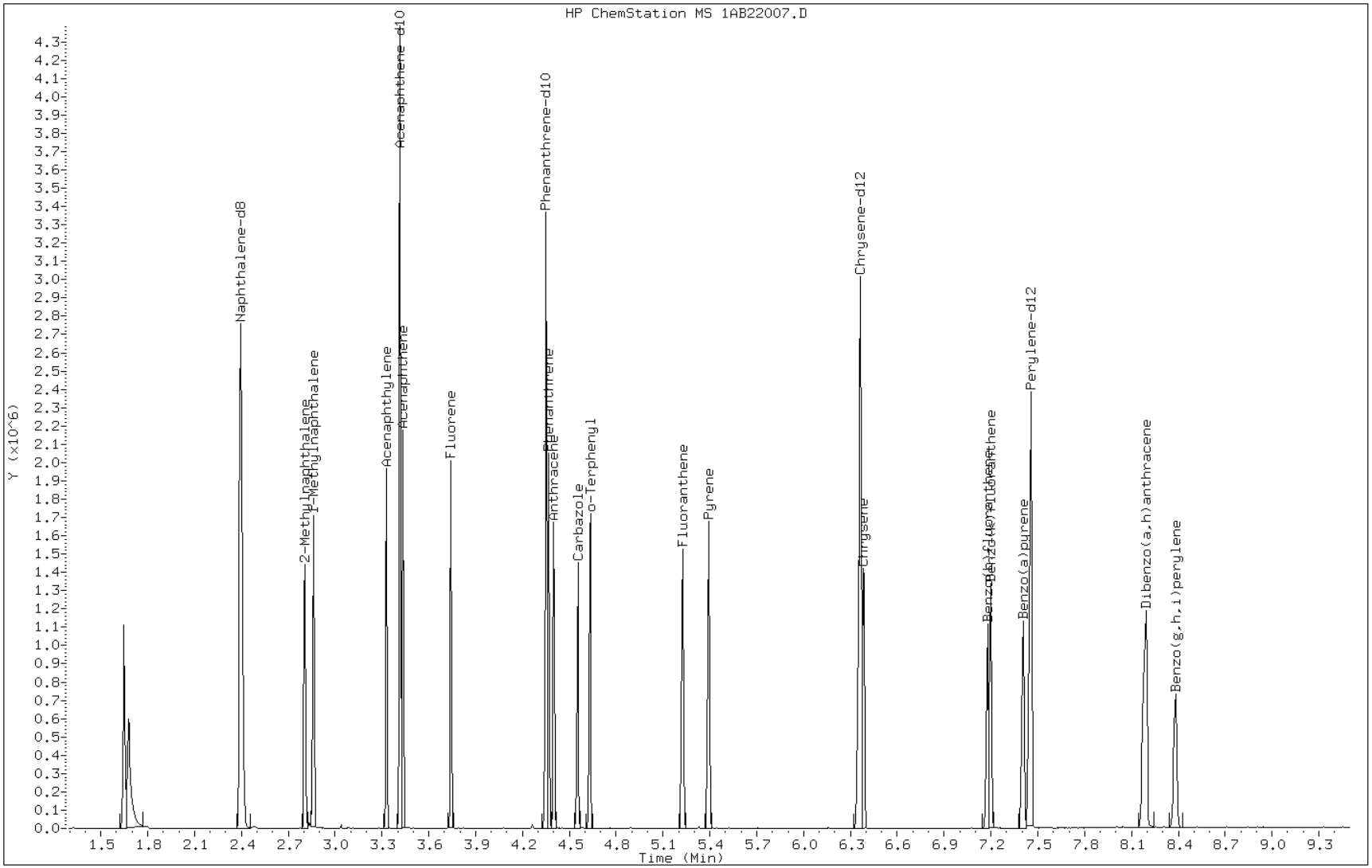
M - Compound response manually integrated.

Data File: 1AB22007.D

Date: 22-FEB-2013 12:02

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1AB22007.D
Inj. Date and Time: 22-FEB-2013 12:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

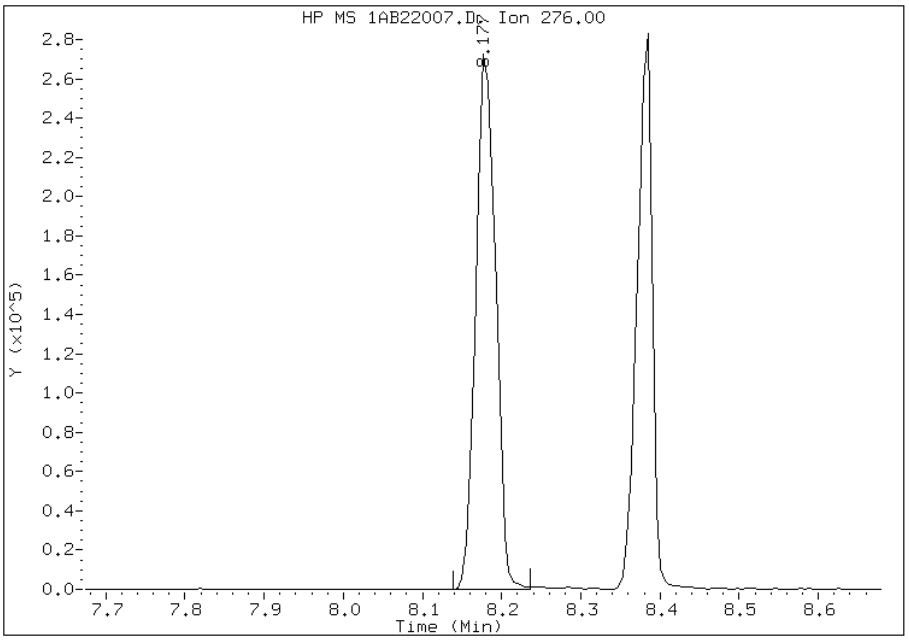
Processing Integration Results

RT: 8.18

Response: 469388

Amount: 25

Conc: 25



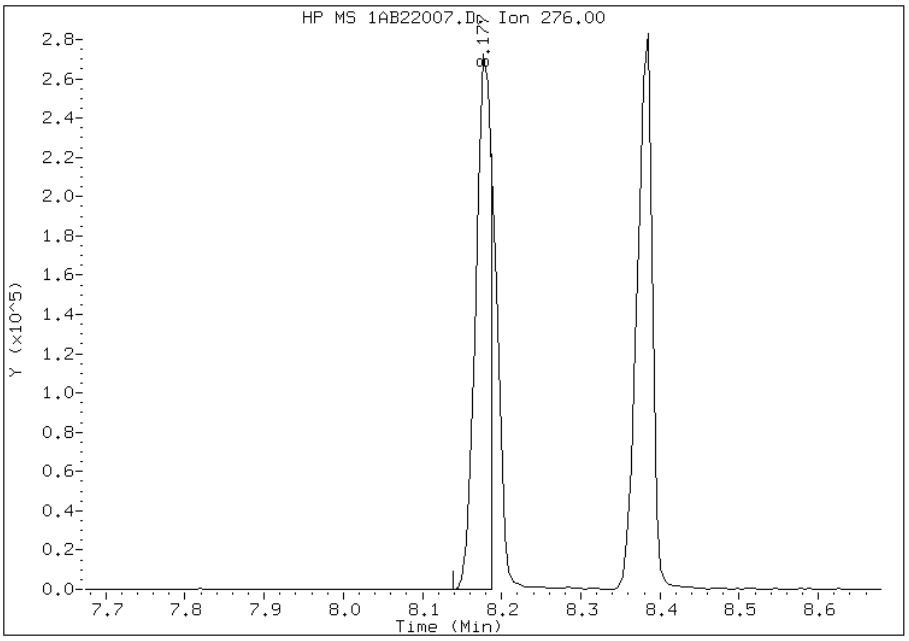
Manual Integration Results

RT: 8.18

Response: 373229

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:51
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 12:17
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:02 Cal File: 1AB22007.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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.389	2.396	(1.000)	991596	40.0000	
* 6 Acenaphthene-d10	164	3.415	3.416	(1.000)	638966	40.0000	
* 10 Phenanthrene-d10	188	4.355	4.351	(1.000)	958764	40.0000	
$ 14 o-Terphenyl	230	4.633	4.634	(1.064)	454607	30.0000	32.5859
* 18 Chrysene-d12	240	6.369	6.365	(1.000)	877633	40.0000	
* 23 Perylene-d12	264	7.459	7.455	(1.000)	909629	40.0000	
2 Naphthalene	128	2.405	2.401	(1.007)	755068	30.0000	31.6010
3 2-Methylnaphthalene	141	2.806	2.807	(1.174)	392415	30.0000	31.8135
4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	443774	30.0000	32.3081
5 Acenaphthylene	152	3.329	3.331	(0.975)	777111	30.0000	32.5722
7 Acenaphthene	154	3.436	3.433	(1.006)	451477	30.0000	32.7495
9 Fluorene	166	3.746	3.742	(1.097)	560865	30.0000	32.2347
11 Phenanthrene	178	4.371	4.367	(1.004)	768793	30.0000	32.2593
12 Anthracene	178	4.403	4.399	(1.011)	760474	30.0000	32.8515
13 Carbazole	167	4.558	4.554	(1.047)	670812	30.0000	32.8268
15 Fluoranthene	202	5.231	5.227	(1.201)	791244	30.0000	33.2061
16 Pyrene	202	5.397	5.393	(0.847)	842188	30.0000	32.7162
17 Benzo(a)anthracene	228	6.358	6.355	(0.998)	771629	30.0000	29.4453
19 Chrysene	228	6.390	6.387	(1.003)	708418	30.0000	30.2265
20 Benzo(b)fluoranthene	252	7.181	7.177	(0.963)	734907	30.0000	31.8706
21 Benzo(k)fluoranthene	252	7.202	7.199	(0.966)	700196	30.0000	30.1824
22 Benzo(a)pyrene	252	7.411	7.407	(0.994)	676641	30.0000	32.0421
24 Indeno(1,2,3-cd)pyrene	276	8.191	8.176	(1.098)	584416	30.0000	32.2584(M)
25 Dibenzo(a,h)anthracene	278	8.207	8.192	(1.100)	595548	30.0000	31.5453
26 Benzo(g,h,i)perylene	276	8.394	8.385	(1.125)	604332	30.0000	31.3627

QC Flag Legend

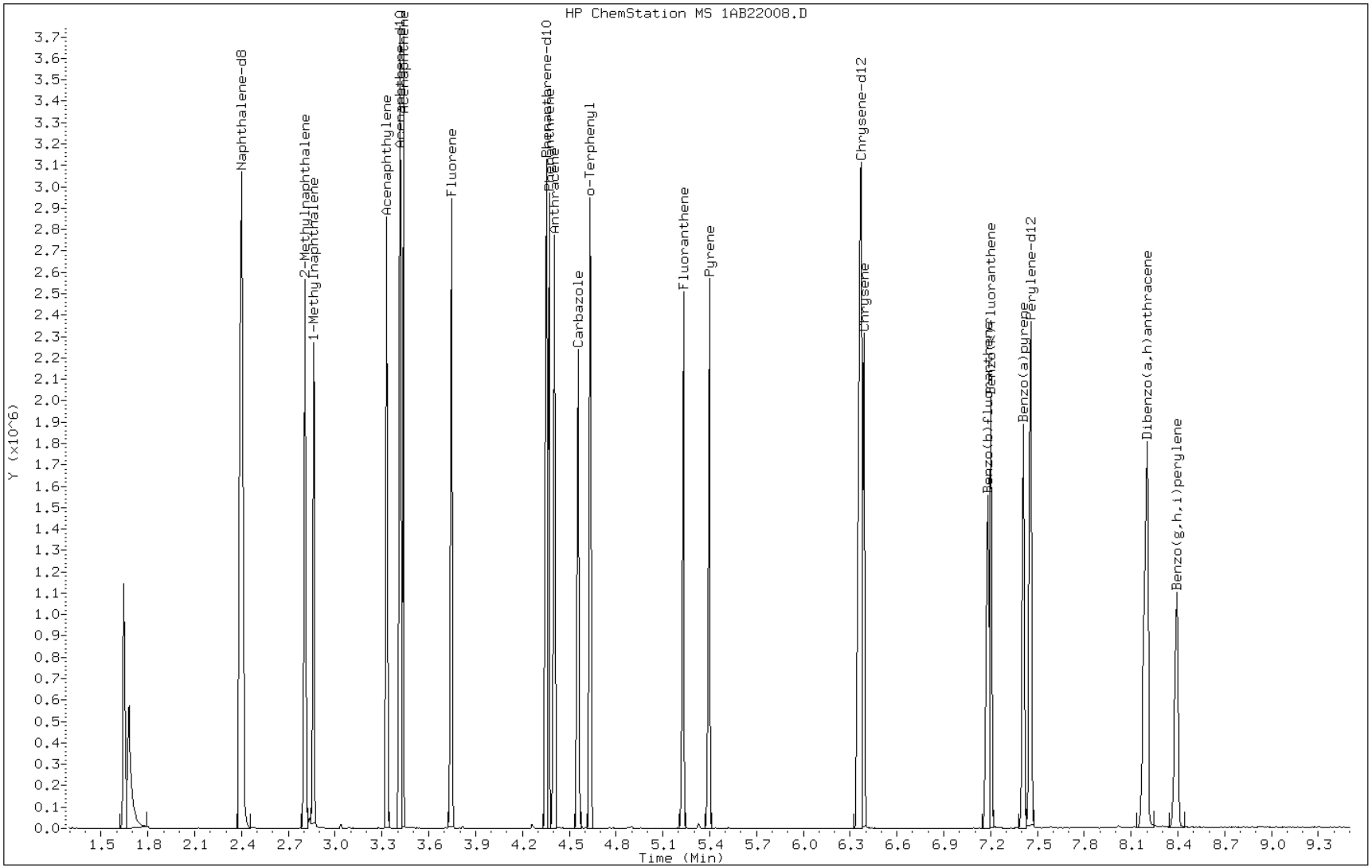
M - Compound response manually integrated.

Data File: 1AB22008.D

Date: 22-FEB-2013 12:17

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512373 Operator: SCC



Manual Integration Report

Data File: 1AB22008.D
Inj. Date and Time: 22-FEB-2013 12:17
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

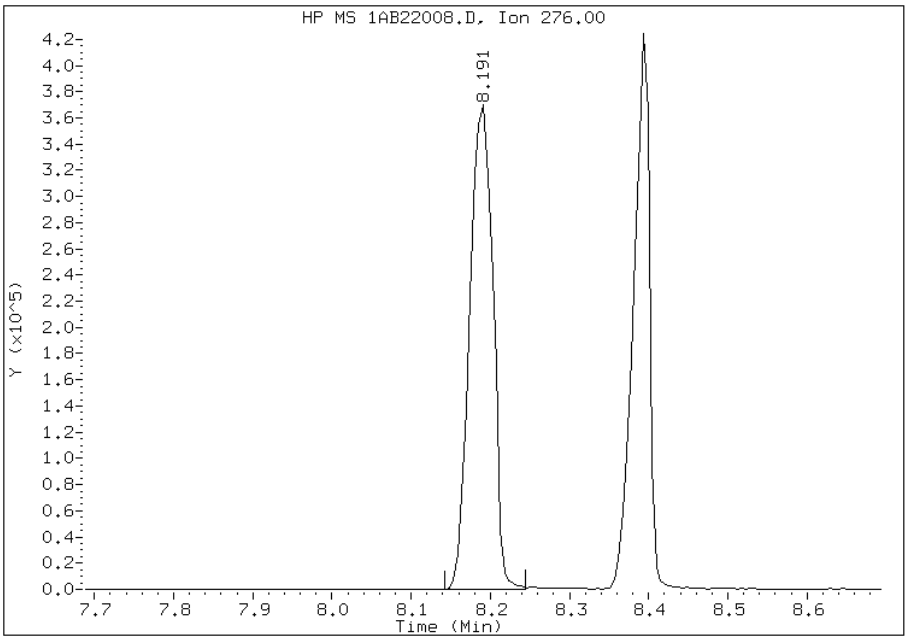
Processing Integration Results

RT: 8.19

Response: 747475

Amount: 34

Conc: 34



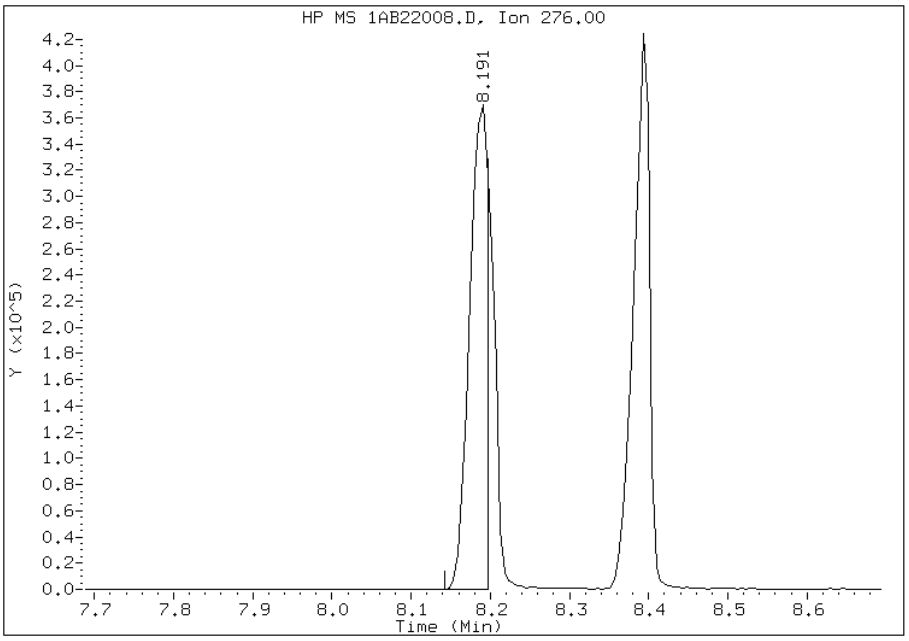
Manual Integration Results

RT: 8.19

Response: 584416

Amount: 32

Conc: 32



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:55
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 12:32
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:17 Cal File: 1AB22008.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	2.398	2.396	(1.000)	998404	40.0000	
* 6 Acenaphthene-d10	164	3.419	3.416	(1.000)	614159	40.0000	
* 10 Phenanthrene-d10	188	4.354	4.351	(1.000)	947061	40.0000	
$ 14 o-Terphenyl	230	4.637	4.634	(1.065)	805122	50.0000	58.4237(A)
* 18 Chrysene-d12	240	6.373	6.365	(1.000)	892104	40.0000	
* 23 Perylene-d12	264	7.457	7.455	(1.000)	879311	40.0000	
2 Naphthalene	128	2.404	2.401	(1.002)	1297783	50.0000	53.9443(A)
3 2-Methylnaphthalene	141	2.810	2.807	(1.171)	686127	50.0000	55.2458(A)
4 1-Methylnaphthalene	142	2.863	2.861	(1.194)	784083	50.0000	56.6945(A)
5 Acenaphthylene	152	3.333	3.331	(0.975)	1395142	50.0000	60.8387(A)
7 Acenaphthene	154	3.440	3.433	(1.006)	828395	50.0000	62.5178(A)
9 Fluorene	166	3.745	3.742	(1.095)	1022945	50.0000	61.1667(A)
11 Phenanthrene	178	4.375	4.367	(1.005)	1384065	50.0000	58.7944(A)
12 Anthracene	178	4.407	4.399	(1.012)	1356027	50.0000	59.3025(A)
13 Carbazole	167	4.562	4.554	(1.048)	1130623	50.0000	56.0118(A)
15 Fluoranthene	202	5.235	5.227	(1.202)	1364989	50.0000	57.9923(A)
16 Pyrene	202	5.401	5.393	(0.847)	1493658	50.0000	57.0824(A)
17 Benzo(a)anthracene	228	6.357	6.355	(0.997)	1351230	50.0000	50.7265(A)
19 Chrysene	228	6.394	6.387	(1.003)	1205320	50.0000	50.5940(A)
20 Benzo(b)fluoranthene	252	7.185	7.177	(0.963)	1222288	50.0000	54.8345(A)
21 Benzo(k)fluoranthene	252	7.212	7.199	(0.967)	1218648	50.0000	54.3418(A)
22 Benzo(a)pyrene	252	7.420	7.407	(0.995)	1142888	50.0000	55.9872(A)
24 Indeno(1,2,3-cd)pyrene	276	8.200	8.176	(1.100)	960232	50.0000	54.8300(AM)
25 Dibenzo(a,h)anthracene	278	8.216	8.192	(1.102)	1030642	50.0000	56.4740(A)
26 Benzo(g,h,i)perylene	276	8.403	8.385	(1.127)	1012084	50.0000	54.3345(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AB22009.D

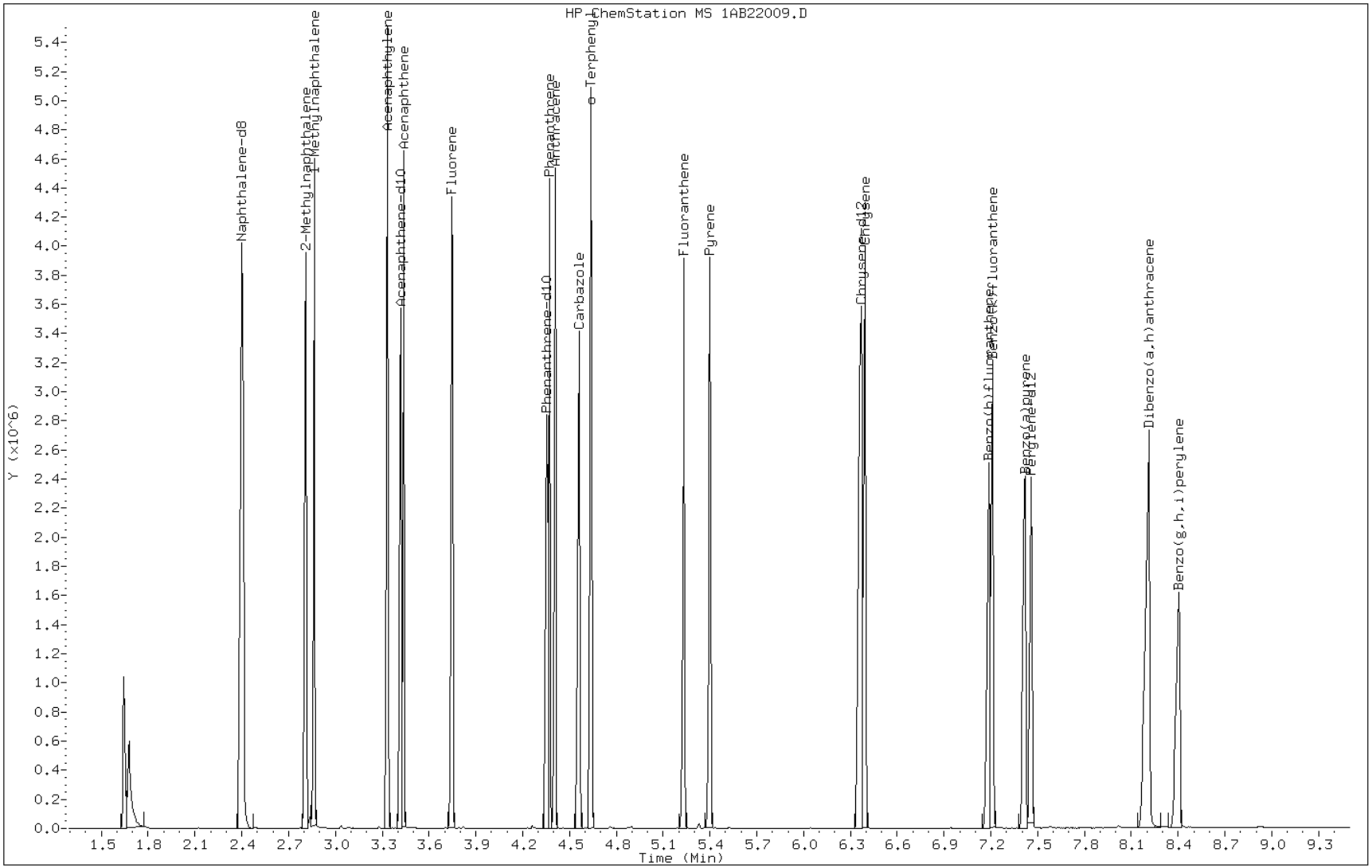
Date: 22-FEB-2013 12:32

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512374

Operator: SCC



Manual Integration Report

Data File: 1AB22009.D
Inj. Date and Time: 22-FEB-2013 12:32
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

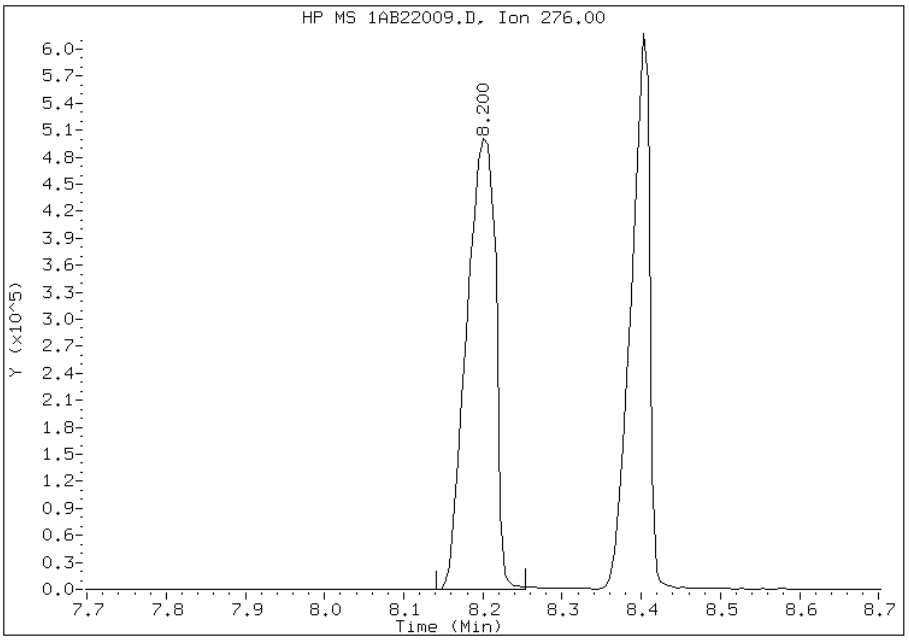
Processing Integration Results

RT: 8.20

Response: 1257157

Amount: 57

Conc: 57



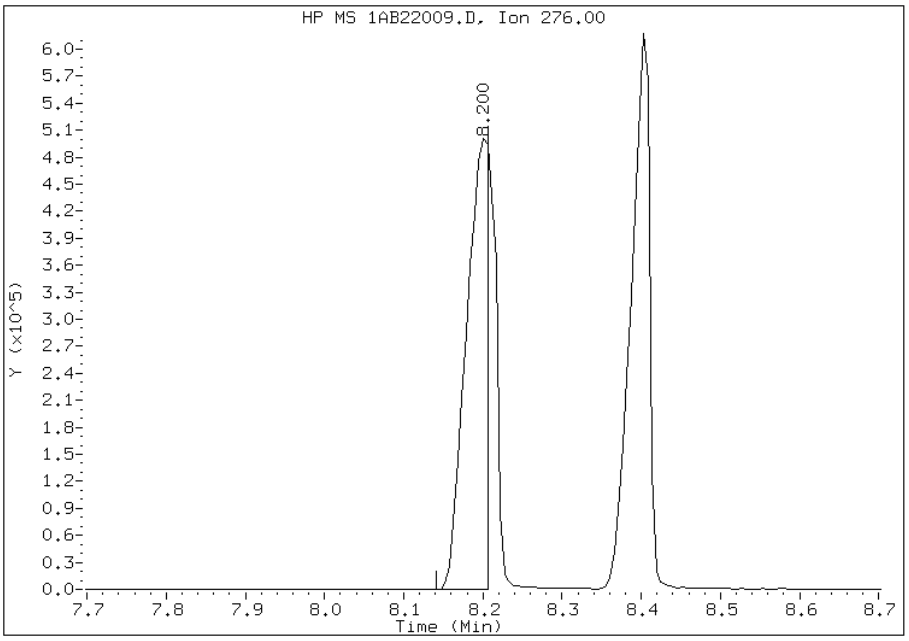
Manual Integration Results

RT: 8.20

Response: 960232

Amount: 55

Conc: 55



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:56
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87496-4 Analy Batch No.: 133192

SDG No.: 68087496-4

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133192/3	1DA07003.D
Level 2	IC 660-133192/4	1DA07004.D
Level 3	IC 660-133192/5	1DA07005.D
Level 4	IC 660-133192/6	1DA07006.D
Level 5	ICIS 660-133192/7	1DA07007.D
Level 6	IC 660-133192/8	1DA07008.D
Level 7	IC 660-133192/9	1DA07009.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	1.0326 1.0487	1.0678 1.0487	1.0821	1.0889	1.0361	Ave		1.0578			0.0000	2.1		15.0			
2-Methylnaphthalene	0.6507 0.6723	0.6743 0.6652	0.6839	0.6894	0.6672	Ave		0.6719			0.0000	1.9		15.0			
1-Methylnaphthalene	0.5922 0.6298	0.6521 0.6251	0.6495	0.6532	0.6221	Ave		0.6320			0.0000	3.5		15.0			
Acenaphthylene	1.4804 1.7952	1.6906 1.7550	1.8019	1.8298	1.7360	Ave		1.7270			0.0000	6.8		15.0			
Acenaphthene	1.0357 1.0581	1.0434 1.0271	1.1019	1.0802	1.0264	Ave		1.0532			0.0000	2.7		15.0			
Fluorene	1.2423 1.2561	1.2505 1.2175	1.2820	1.2926	1.2191	Ave		1.2514			0.0000	2.3		15.0			
Phenanthrene	1.3083 1.1051	1.1627 1.0757	1.1236	1.1454	1.0787	Ave		1.1428			0.0000	7.0		15.0			
Anthracene	1.0767 1.1402	1.1175 1.0993	1.1342	1.1607	1.1089	Ave		1.1196			0.0000	2.5		15.0			
Carbazole	0.9237 1.0116	1.0027 0.9834	1.0152	1.0170	0.9880	Ave		0.9917			0.0000	3.3		15.0			
Fluoranthene	1.0832 1.1621	1.1408 1.1339	1.1751	1.1877	1.1299	Ave		1.1447			0.0000	3.0		15.0			
Pyrene	1.1694 1.2821	1.2494 1.2240	1.2825	1.2973	1.2376	Ave		1.2489			0.0000	3.5		15.0			
Benzo[a]anthracene	1.5148 1.0995	1.1799 1.0830	1.1158	1.1306	1.0667	Ave		1.1700			0.0000	13.4		15.0			
Chrysene	1.2051 1.1142	1.1588 1.0633	1.1473	1.1276	1.0756	Ave		1.1274			0.0000	4.3		15.0			
Benzo[b]fluoranthene	0.9652 1.0404	1.0099 1.0124	1.0606	1.0334	0.9860	Ave		1.0154			0.0000	3.2		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.: 680-87496-4 Analy Batch No.: 133192

SDG No.: 68087496-4

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

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	1.0249 1.0958	1.0575 1.0509	1.0863	1.1227	1.0697	Ave		1.0725			0.0000	3.0		15.0			
Benzo[a]pyrene	0.8729 1.0490	0.9715 1.0292	1.0282	1.0490	1.0082	Ave		1.0011			0.0000	6.2		15.0			
Indeno[1,2,3-cd]pyrene	0.9744 1.1397	1.0159 1.1426	1.0734	1.0875	1.0465	Ave		1.0686			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9295 1.0207	0.9472 0.9996	0.9919	0.9980	0.9770	Ave		0.9805			0.0000	3.3		15.0			
Benzo[g,h,i]perylene	1.0069 1.0507	0.9976 1.0256	1.0284	1.0461	1.0014	Ave		1.0224			0.0000	2.1		15.0			
o-Terphenyl	0.5295 0.6025	0.6044 0.5837	0.6246	0.6250	0.5876	Ave		0.5939			0.0000	5.5		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87496-4 Analy Batch No.: 133192

SDG No.: 68087496-4

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133192/3	1DA07003.D
Level 2	IC 660-133192/4	1DA07004.D
Level 3	IC 660-133192/5	1DA07005.D
Level 4	IC 660-133192/6	1DA07006.D
Level 5	ICIS 660-133192/7	1DA07007.D
Level 6	IC 660-133192/8	1DA07008.D
Level 7	IC 660-133192/9	1DA07009.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	14081 2217525	75051 3455368	371110	761664	1499373	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	8874 1421632	47392 2191842	234541	482221	965566	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8076 1331678	45830 2059513	222727	456888	900178	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	11732 2195429	69657 3401253	359613	748390	1468866	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8208 1293933	42989 1990525	219909	441782	868428	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	9845 1536111	51523 2359500	255855	528668	1031469	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	16942 2200797	77587 3355969	370259	762869	1479086	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	13943 2270785	74572 3429358	373778	773057	1520613	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	11962 2014501	66912 3068003	334549	677386	1354823	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	14028 2314400	76130 3537470	387235	791083	1549406	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	14686 2464372	80943 3756325	410239	833624	1653183	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	19024 2113434	76437 3323349	356902	726527	1424873	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15135 2141587	75076 3263100	367003	724549	1436719	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	12479 2058806	67382 3216419	350520	687579	1364545	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13251 2168595	70561 3338707	359015	746955	1480475	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.: 680-87496-4 Analy Batch No.: 133192

SDG No.: 68087496-4

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

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	11286 2075812	64823 3269544	339811	697964	1395303	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12598 2255455	67785 3629982	354752	723555	1448350	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	12018 2019856	63201 3175644	327817	663992	1352122	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13019 2079330	66561 3258091	339874	696020	1385933	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6857 1199919	40334 1821099	205836	416257	805710	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07003.D
Lab Smp Id: IC-1489894
Inj Date : 07-JAN-2013 10:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 3 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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.237	6.237	(1.000)	2727403	40.0000	
* 6 Acenaphthene-d10	164	7.905	7.905	(1.000)	1584959	40.0000	
* 9 Phenanthrene-d10	188	9.168	9.168	(1.000)	2590020	40.0000	
$ 13 o-Terphenyl	230	9.474	9.474	(1.033)	6857	0.20000	0.18
* 17 Chrysene-d12	240	11.525	11.525	(1.000)	2511795	40.0000	
* 22 Perylene-d12	264	13.422	13.422	(1.000)	2585852	40.0000	
2 Naphthalene	128	6.254	6.254	(1.003)	14081	0.20000	0.20
3 2-Methylnaphthalene	142	6.959	6.959	(1.116)	8874	0.20000	0.19
4 1-Methylnaphthalene	142	7.047	7.047	(1.130)	8076	0.20000	0.19
5 Acenaphthylene	152	7.776	7.776	(0.984)	11732	0.20000	0.17
7 Acenaphthene	154	7.929	7.929	(1.003)	8208	0.20000	0.20
8 Fluorene	166	8.375	8.375	(1.059)	9845	0.20000	0.20
10 Phenanthrene	178	9.180	9.180	(1.001)	16942	0.20000	0.23
11 Anthracene	178	9.221	9.221	(1.006)	13943	0.20000	0.19
12 Carbazole	167	9.357	9.357	(1.021)	11962	0.20000	0.19
14 Fluoranthene	202	10.167	10.167	(1.109)	14028	0.20000	0.19
15 Pyrene	202	10.355	10.355	(0.899)	14686	0.20000	0.19
16 Benzo(a)anthracene	228	11.501	11.501	(0.998)	19024	0.20000	0.28
18 Chrysene	228	11.542	11.542	(1.002)	15135	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.852	12.852	(0.958)	12479	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.888	12.888	(0.960)	13251	0.20000	0.19(MH)
21 Benzo(a)pyrene	252	13.317	13.317	(0.992)	11286	0.20000	0.17
23 Indeno(1,2,3-cd)pyrene	276	15.050	15.050	(1.121)	12598	0.20000	0.18(M)
24 Dibenzo(a,h)anthracene	278	15.085	15.085	(1.124)	12018	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.514	15.514	(1.156)	13019	0.20000	0.20(MH)

QC Flag Legend

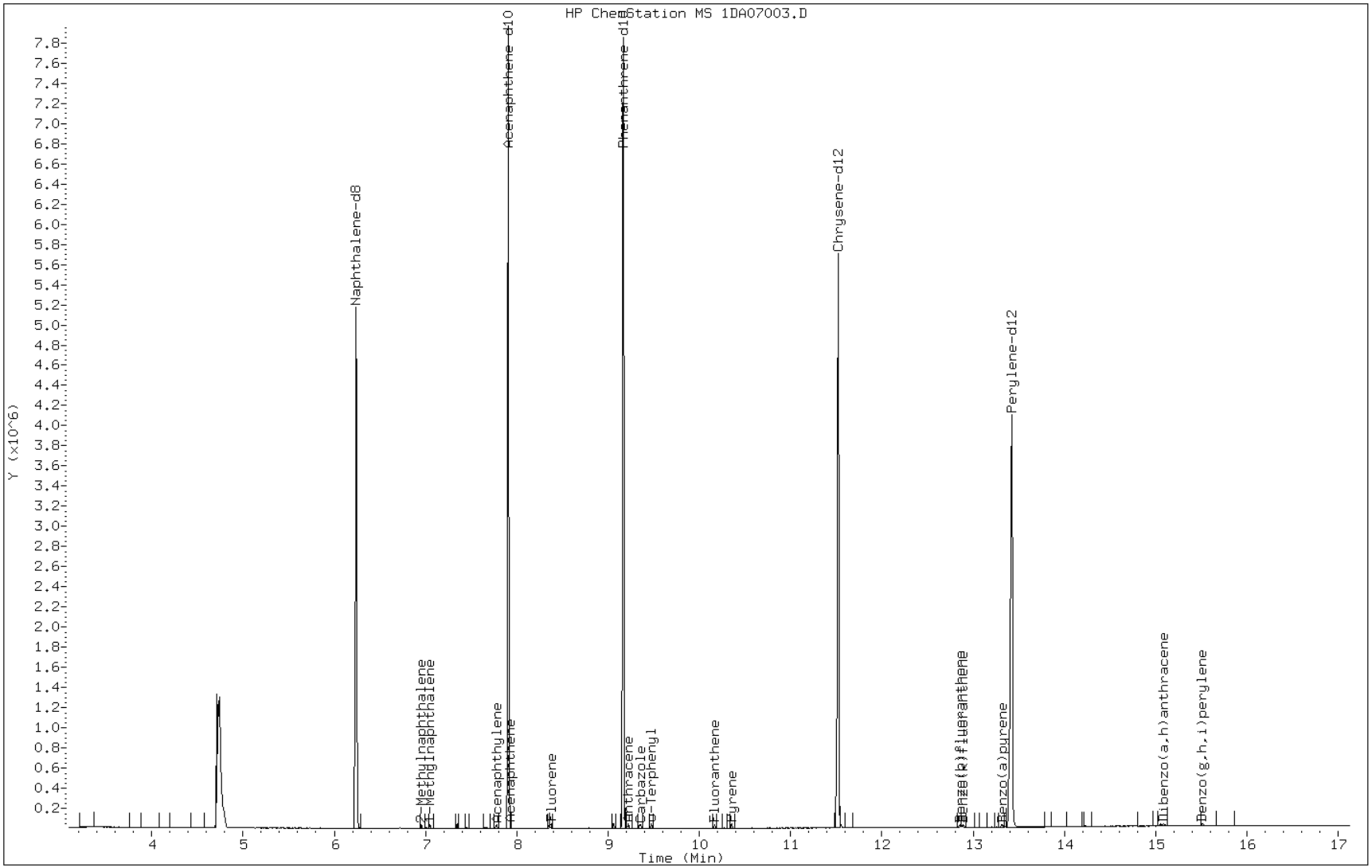
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07003.D

Date: 07-JAN-2013 10:43

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/07/2013

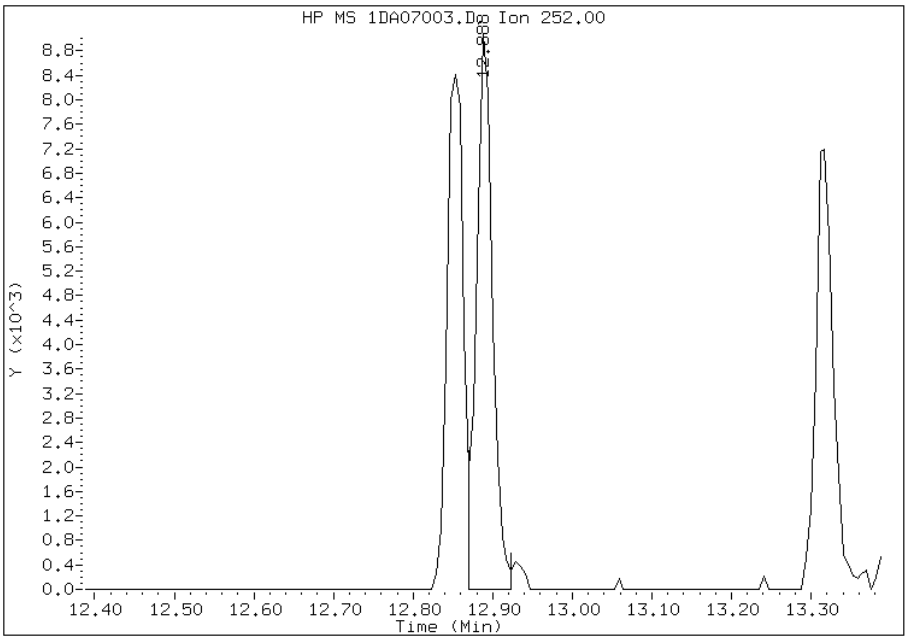
Processing Integration Results

RT: 12.89

Response: 12828

Amount: 0

Conc: 0



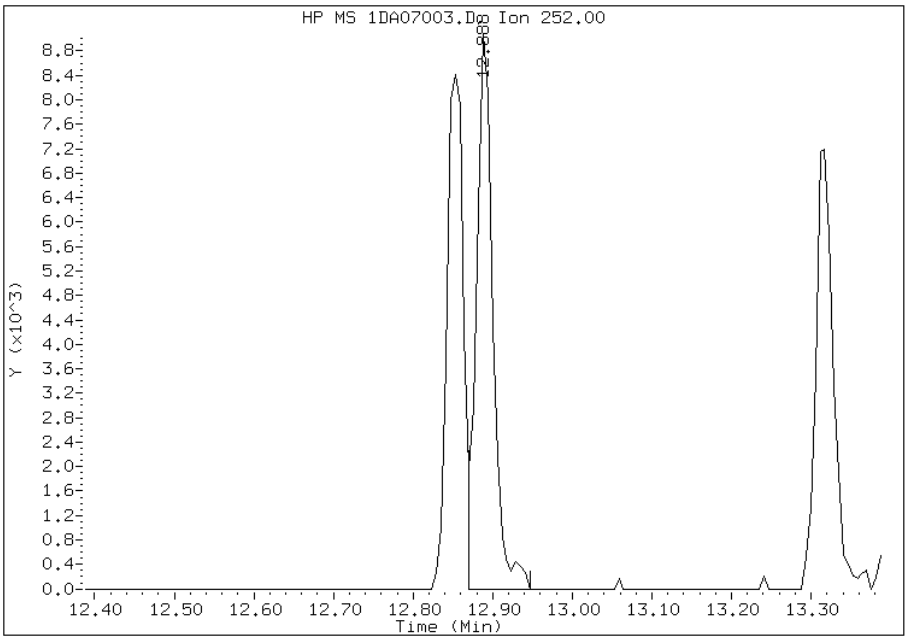
Manual Integration Results

RT: 12.89

Response: 13251

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

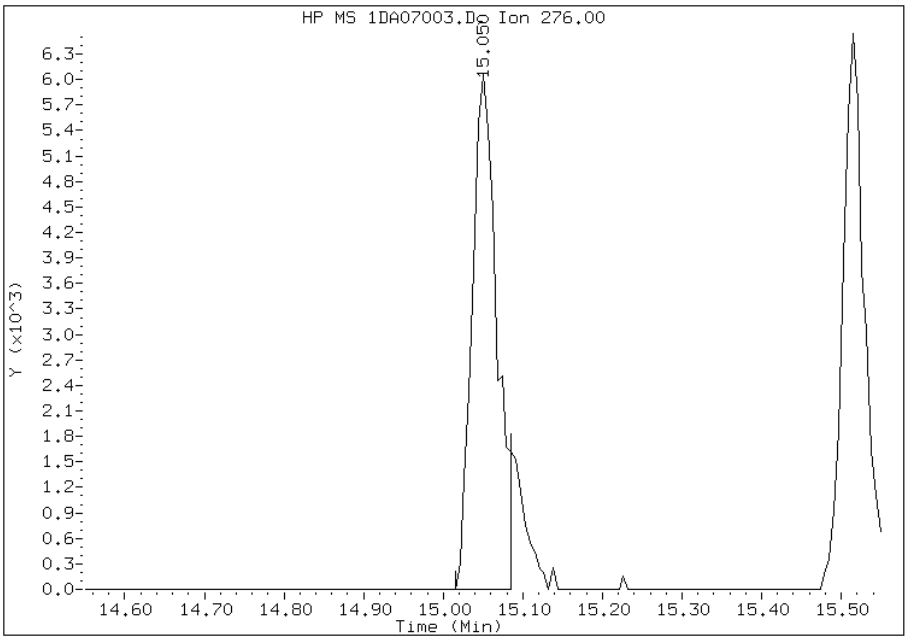
Processing Integration Results

RT: 15.05

Response: 13170

Amount: 0

Conc: 0



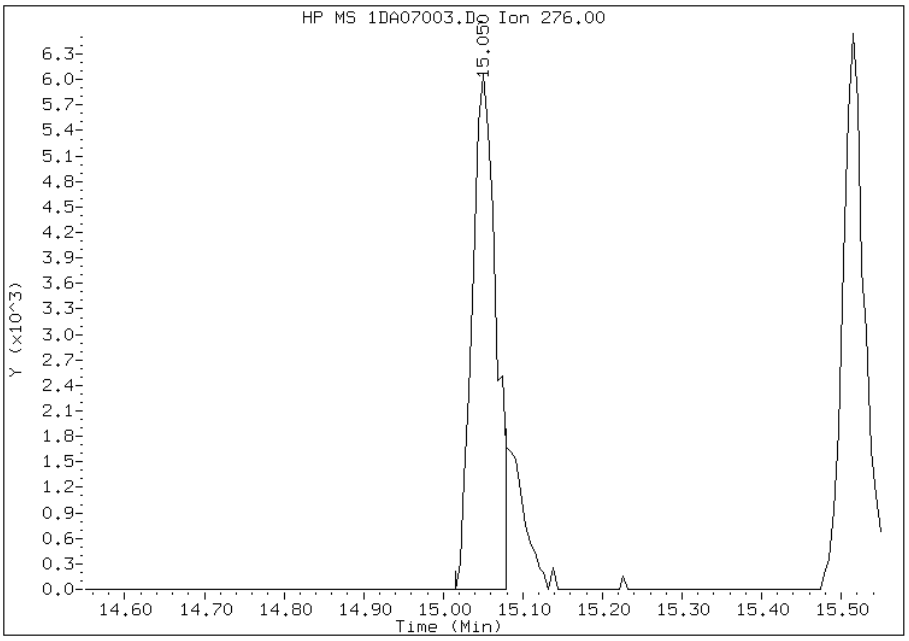
Manual Integration Results

RT: 15.05

Response: 12598

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/07/2013

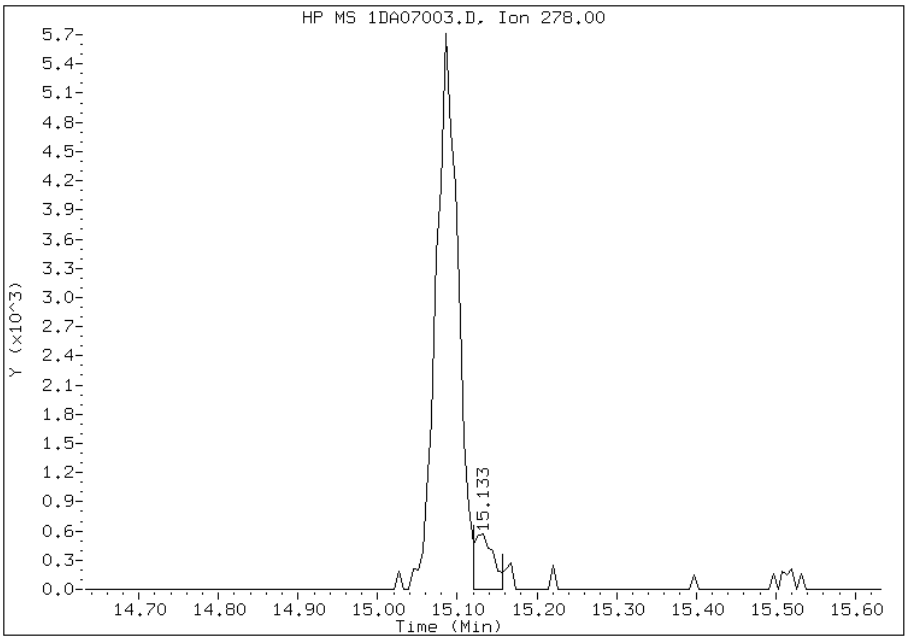
Processing Integration Results

RT: 15.13

Response: 977

Amount: 0

Conc: 0



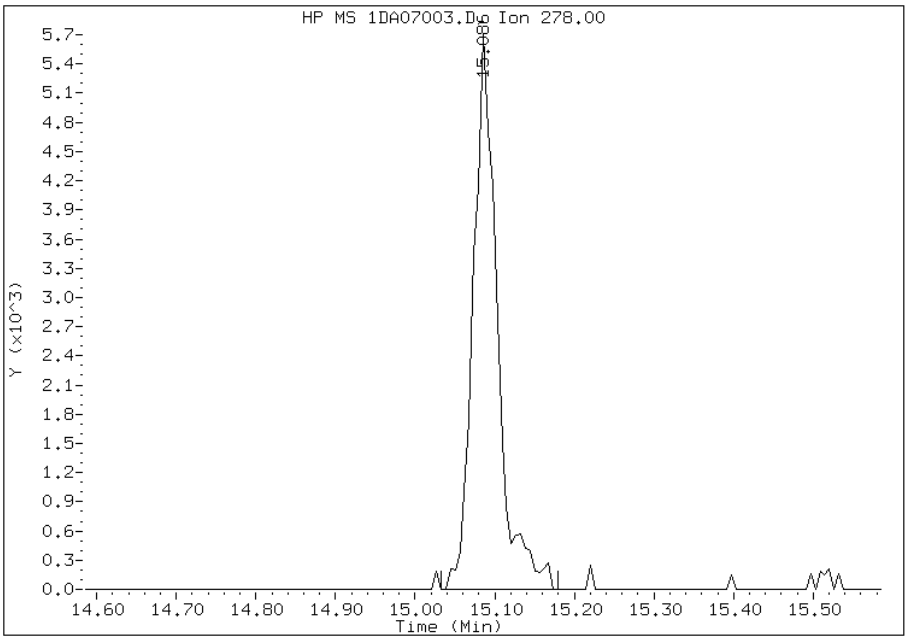
Manual Integration Results

RT: 15.09

Response: 12018

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/07/2013

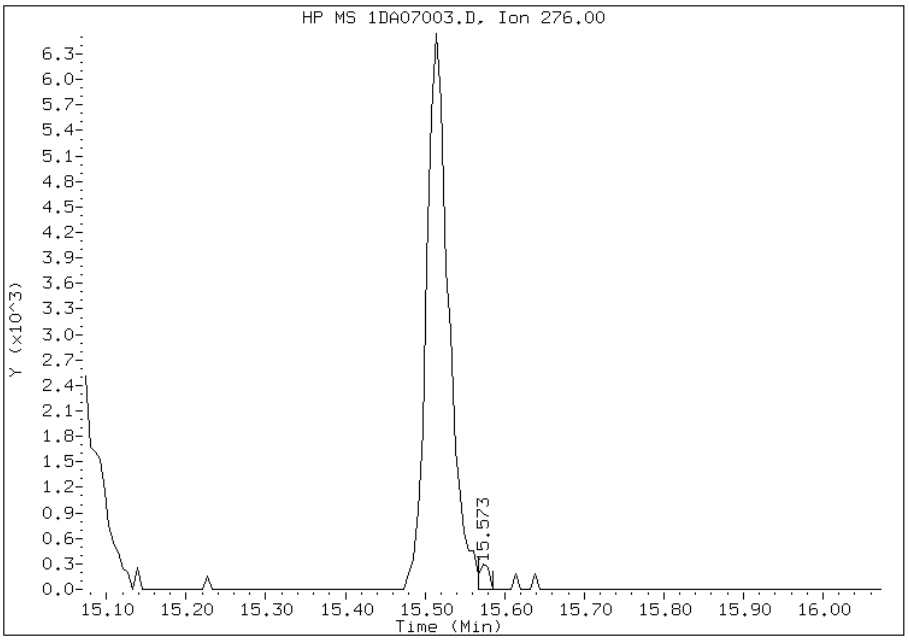
Processing Integration Results

RT: 15.57

Response: 258

Amount: 0

Conc: 0



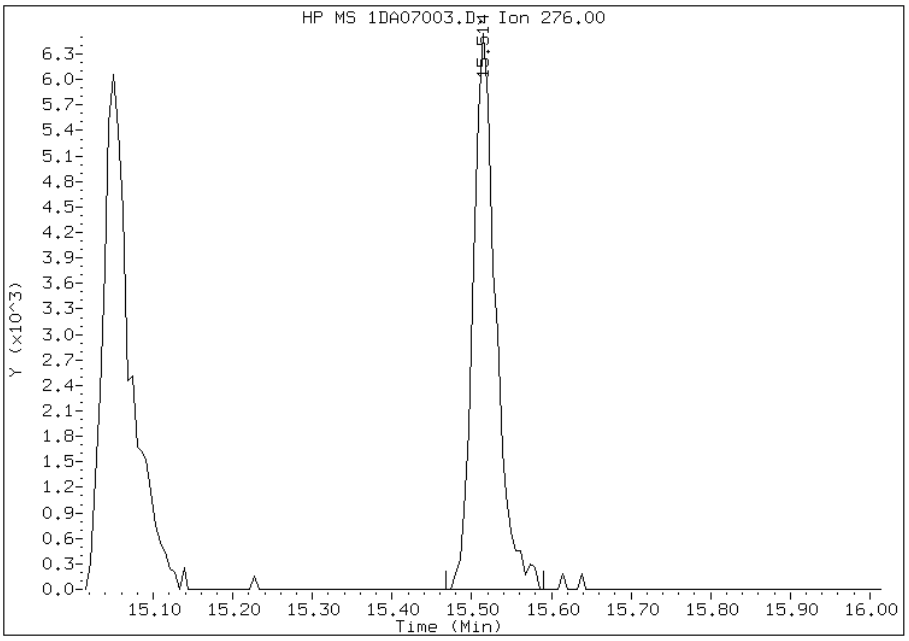
Manual Integration Results

RT: 15.51

Response: 13019

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:43
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07004.D
Lab Smp Id: IC-1489895
Inj Date : 07-JAN-2013 11:05
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 10:43 Cal File: 1DA07003.D
Als bottle: 4 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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.233	6.233	(1.000)	2811351	40.0000	
* 6 Acenaphthene-d10	164	7.901	7.901	(1.000)	1648080	40.0000	
* 9 Phenanthrene-d10	188	9.164	9.164	(1.000)	2669257	40.0000	
$ 13 o-Terphenyl	230	9.470	9.470	(1.033)	40334	1.00000	1.0
* 17 Chrysene-d12	240	11.520	11.520	(1.000)	2591399	40.0000	
* 22 Perylene-d12	264	13.418	13.418	(1.000)	2668926	40.0000	
2 Naphthalene	128	6.256	6.256	(1.004)	75051	1.00000	1.0
3 2-Methylnaphthalene	142	6.949	6.949	(1.115)	47392	1.00000	1.0
4 1-Methylnaphthalene	142	7.043	7.043	(1.130)	45830	1.00000	1.0
5 Acenaphthylene	152	7.772	7.772	(0.984)	69657	1.00000	0.98
7 Acenaphthene	154	7.925	7.925	(1.003)	42989	1.00000	0.99
8 Fluorene	166	8.371	8.371	(1.059)	51523	1.00000	1.00
10 Phenanthrene	178	9.176	9.176	(1.001)	77587	1.00000	1.0
11 Anthracene	178	9.217	9.217	(1.006)	74572	1.00000	1.00
12 Carbazole	167	9.352	9.352	(1.021)	66912	1.00000	1.0
14 Fluoranthene	202	10.163	10.163	(1.109)	76130	1.00000	1.00
15 Pyrene	202	10.351	10.351	(0.899)	80943	1.00000	1.0
16 Benzo(a)anthracene	228	11.497	11.497	(0.998)	76437	1.00000	1.1
18 Chrysene	228	11.538	11.538	(1.002)	75076	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.848	12.848	(0.958)	67382	1.00000	0.99
20 Benzo(k)fluoranthene	252	12.884	12.884	(0.960)	70561	1.00000	0.98
21 Benzo(a)pyrene	252	13.312	13.312	(0.992)	64823	1.00000	0.97
23 Indeno(1,2,3-cd)pyrene	276	15.046	15.046	(1.121)	67785	1.00000	0.95(M)
24 Dibenzo(a,h)anthracene	278	15.081	15.081	(1.124)	63201	1.00000	0.97(MH)
25 Benzo(g,h,i)perylene	276	15.504	15.504	(1.155)	66561	1.00000	0.98(MH)

QC Flag Legend

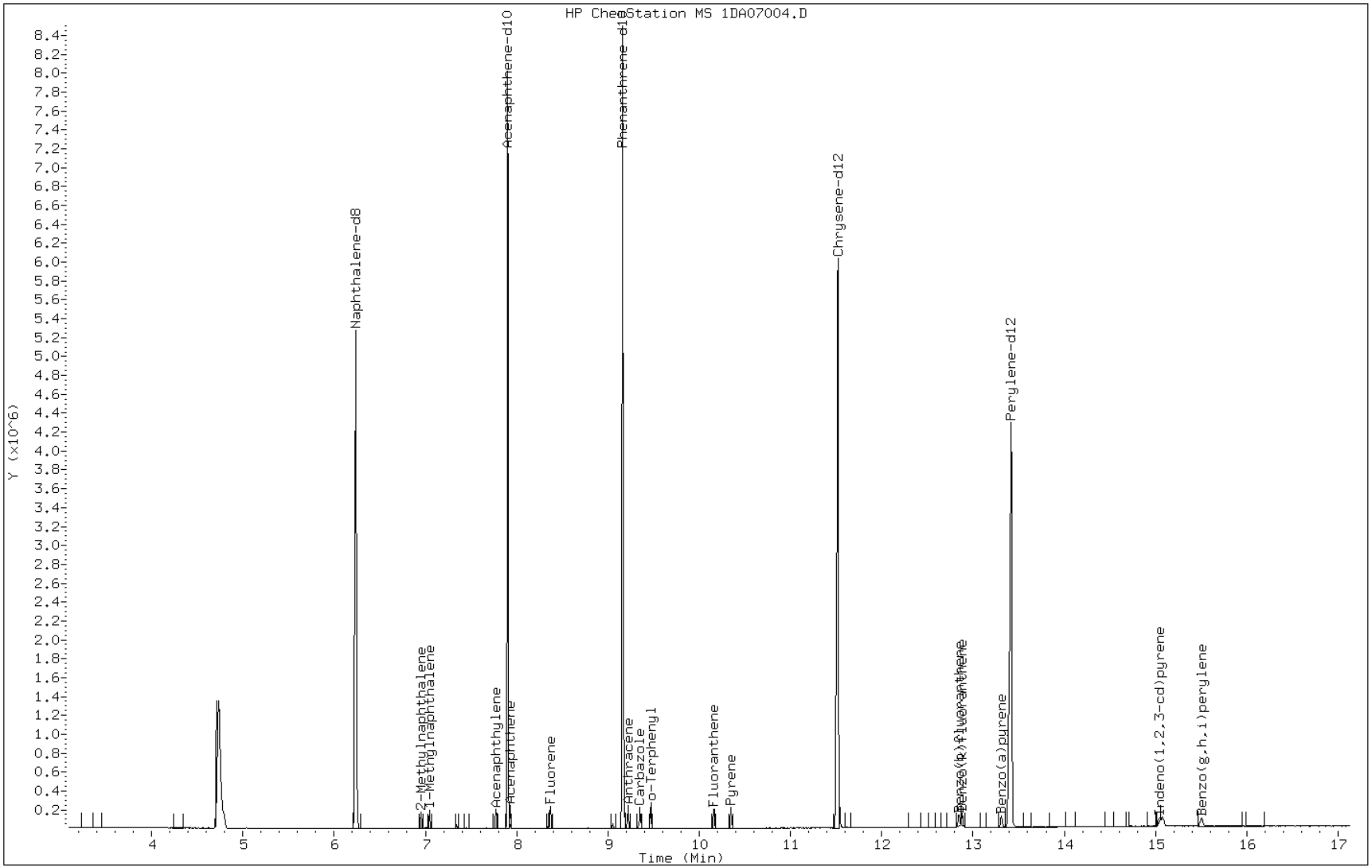
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07004.D

Date: 07-JAN-2013 11:05

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1DA07004.D
Inj. Date and Time: 07-JAN-2013 11:05
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

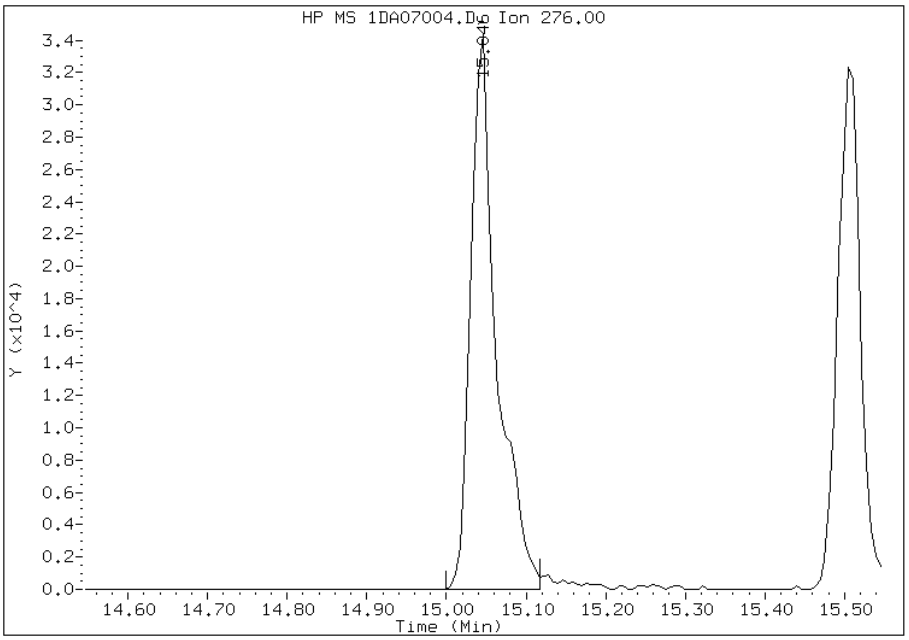
Processing Integration Results

RT: 15.05

Response: 77538

Amount: 1

Conc: 1



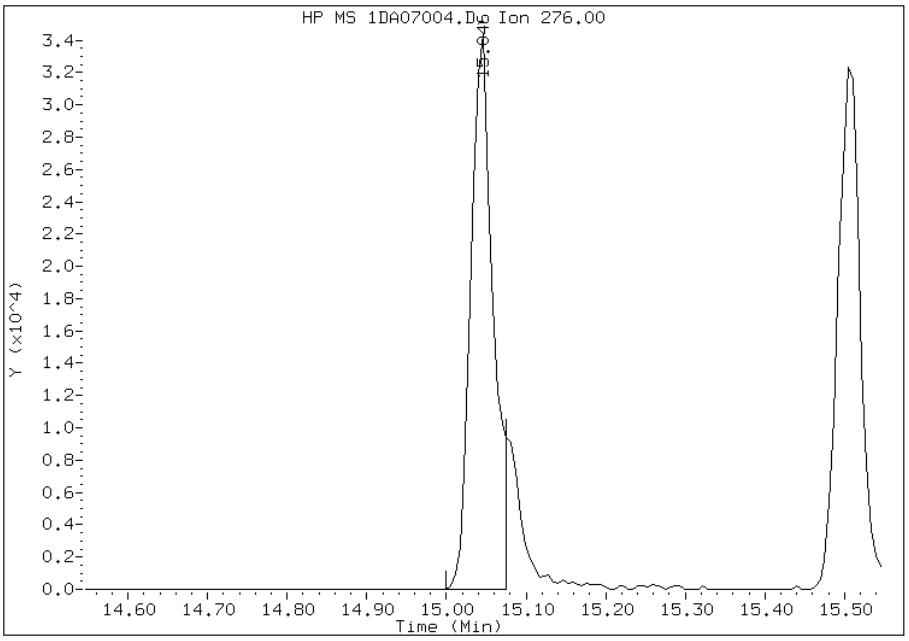
Manual Integration Results

RT: 15.05

Response: 67785

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DA07004.D
Inj. Date and Time: 07-JAN-2013 11:05
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/07/2013

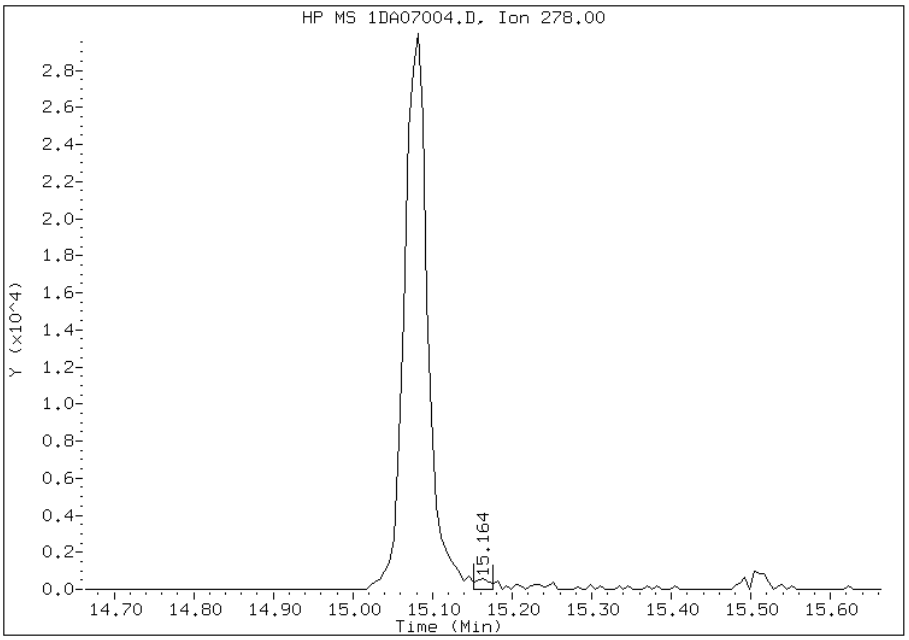
Processing Integration Results

RT: 15.16

Response: 770

Amount: 0

Conc: 0



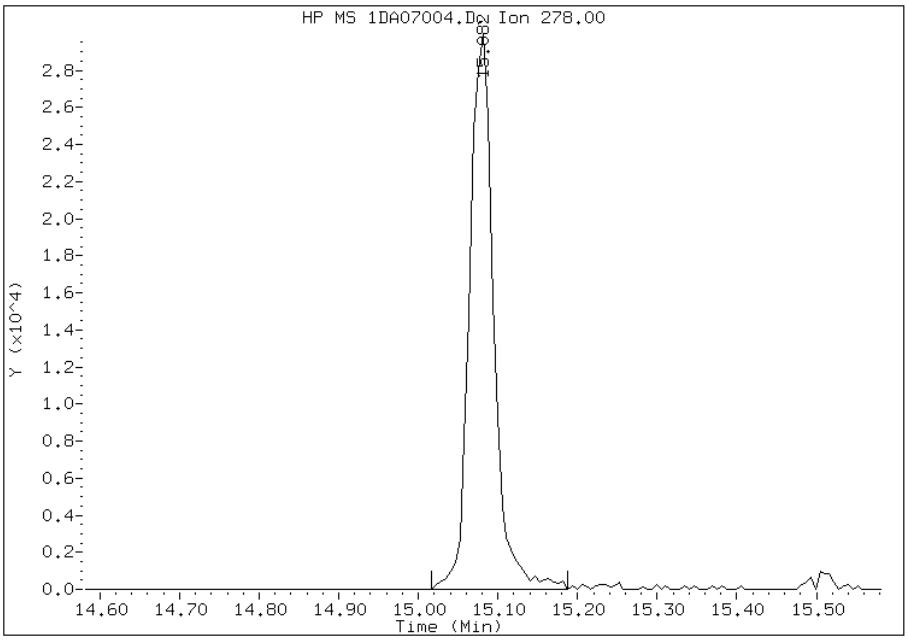
Manual Integration Results

RT: 15.08

Response: 63201

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07004.D
Inj. Date and Time: 07-JAN-2013 11:05
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/07/2013

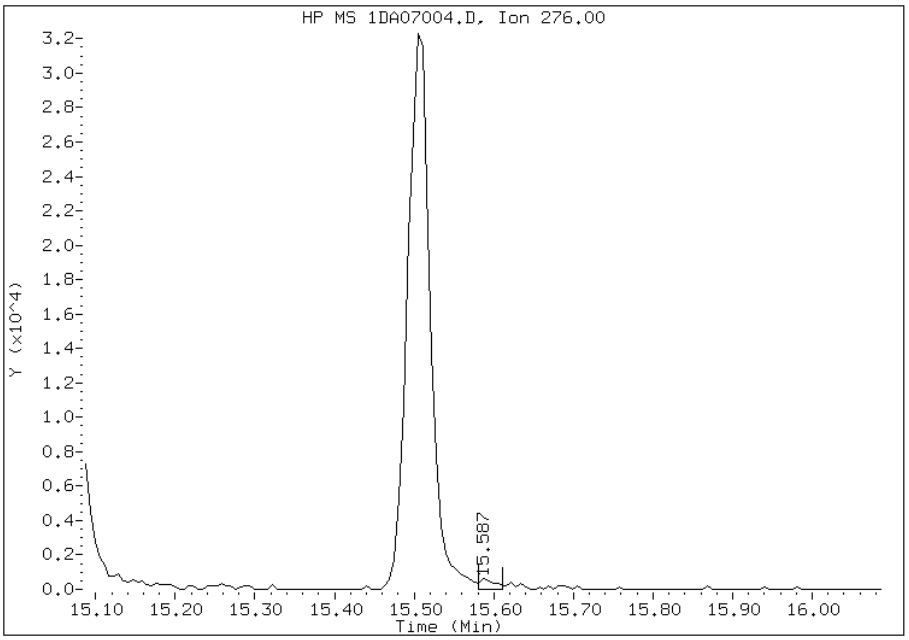
Processing Integration Results

RT: 15.59

Response: 827

Amount: 0

Conc: 0



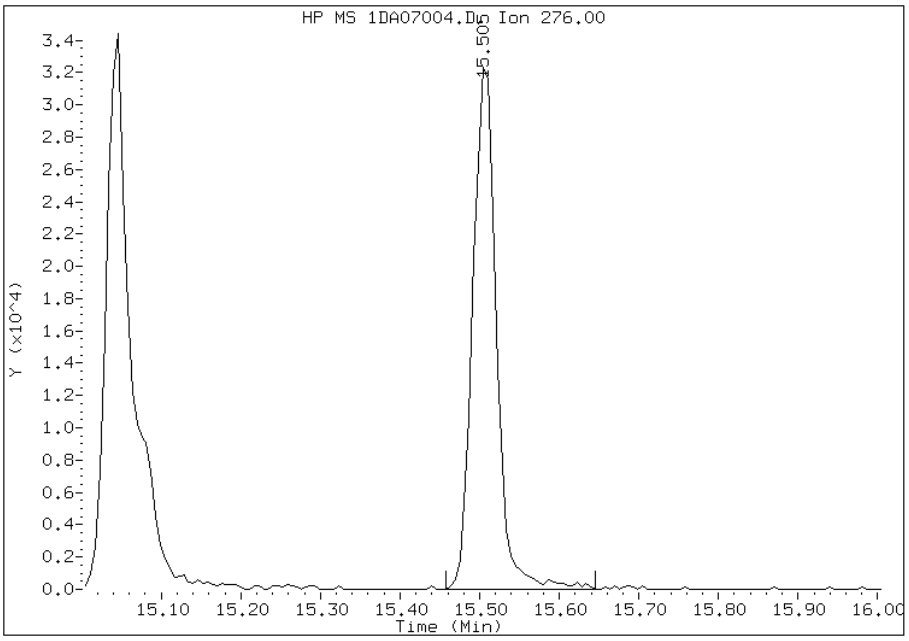
Manual Integration Results

RT: 15.50

Response: 66561

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07005.D
Lab Smp Id: IC-1489896
Inj Date : 07-JAN-2013 11:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 11:05 Cal File: 1DA07004.D
Als bottle: 5 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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.234	6.234	(1.000)	2743564	40.0000	
* 6 Acenaphthene-d10	164	7.903	7.903	(1.000)	1596605	40.0000	
* 9 Phenanthrene-d10	188	9.160	9.160	(1.000)	2636310	40.0000	
$ 13 o-Terphenyl	230	9.466	9.466	(1.033)	205836	5.00000	5.2
* 17 Chrysene-d12	240	11.516	11.516	(1.000)	2558962	40.0000	
* 22 Perylene-d12	264	13.420	13.420	(1.000)	2644008	40.0000	
2 Naphthalene	128	6.252	6.252	(1.003)	371110	5.00000	5.1
3 2-Methylnaphthalene	142	6.951	6.951	(1.115)	234541	5.00000	5.1
4 1-Methylnaphthalene	142	7.045	7.045	(1.130)	222727	5.00000	5.1
5 Acenaphthylene	152	7.774	7.774	(0.984)	359613	5.00000	5.2
7 Acenaphthene	154	7.926	7.926	(1.003)	219909	5.00000	5.2
8 Fluorene	166	8.367	8.367	(1.059)	255855	5.00000	5.1
10 Phenanthrene	178	9.178	9.178	(1.002)	370259	5.00000	4.9
11 Anthracene	178	9.219	9.219	(1.006)	373778	5.00000	5.1
12 Carbazole	167	9.354	9.354	(1.021)	334549	5.00000	5.1
14 Fluoranthene	202	10.159	10.159	(1.109)	387235	5.00000	5.1
15 Pyrene	202	10.353	10.353	(0.899)	410239	5.00000	5.1
16 Benzo(a)anthracene	228	11.499	11.499	(0.998)	356902	5.00000	5.1
18 Chrysene	228	11.540	11.540	(1.002)	367003	5.00000	5.1
19 Benzo(b)fluoranthene	252	12.844	12.844	(0.957)	350520	5.00000	5.2
20 Benzo(k)fluoranthene	252	12.885	12.885	(0.960)	359015	5.00000	5.1
21 Benzo(a)pyrene	252	13.314	13.314	(0.992)	339811	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	15.047	15.047	(1.121)	354752	5.00000	5.0(M)
24 Dibenzo(a,h)anthracene	278	15.083	15.083	(1.124)	327817	5.00000	5.0(MH)
25 Benzo(g,h,i)perylene	276	15.512	15.512	(1.156)	339874	5.00000	5.0(MH)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07005.D

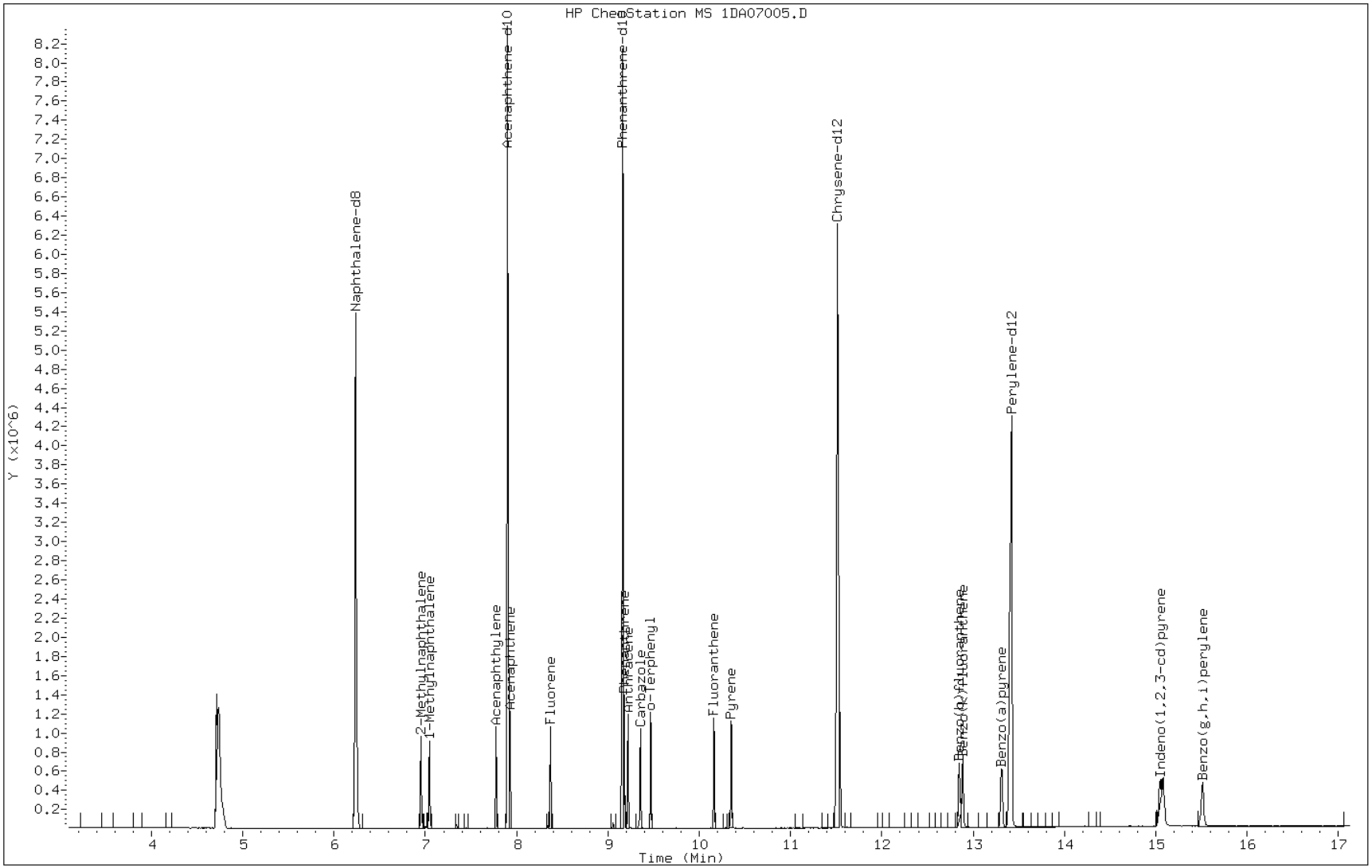
Date: 07-JAN-2013 11:28

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1489896

Operator: SCC



Manual Integration Report

Data File: 1DA07005.D
Inj. Date and Time: 07-JAN-2013 11:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

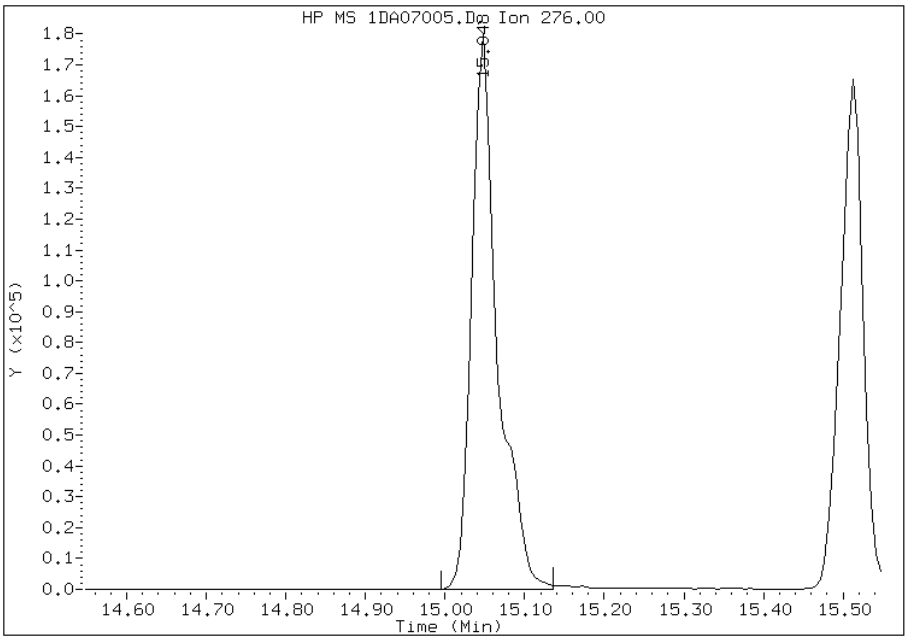
Processing Integration Results

RT: 15.05

Response: 403139

Amount: 6

Conc: 6



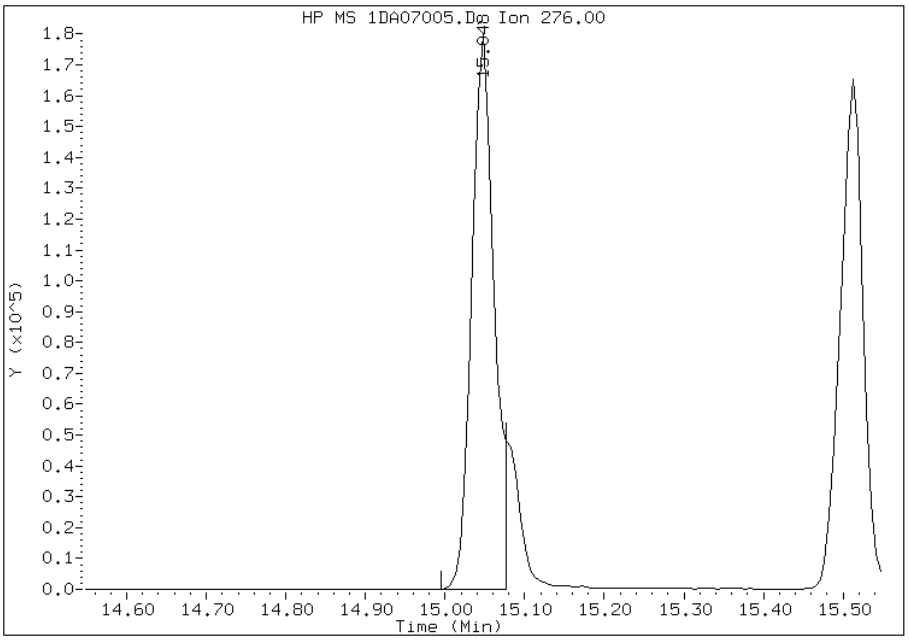
Manual Integration Results

RT: 15.05

Response: 354752

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DA07005.D
Inj. Date and Time: 07-JAN-2013 11:28
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/07/2013

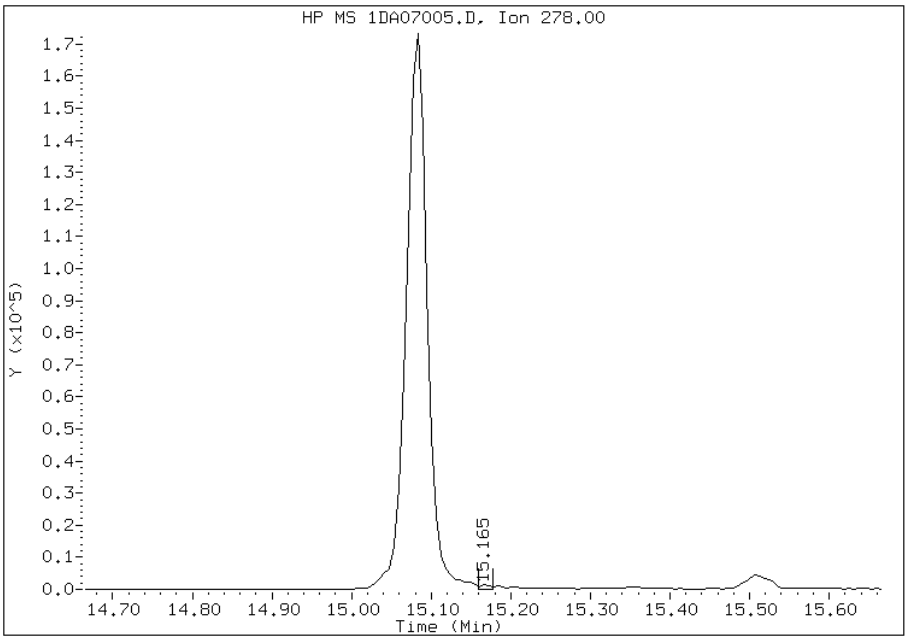
Processing Integration Results

RT: 15.17

Response: 1440

Amount: 0

Conc: 0



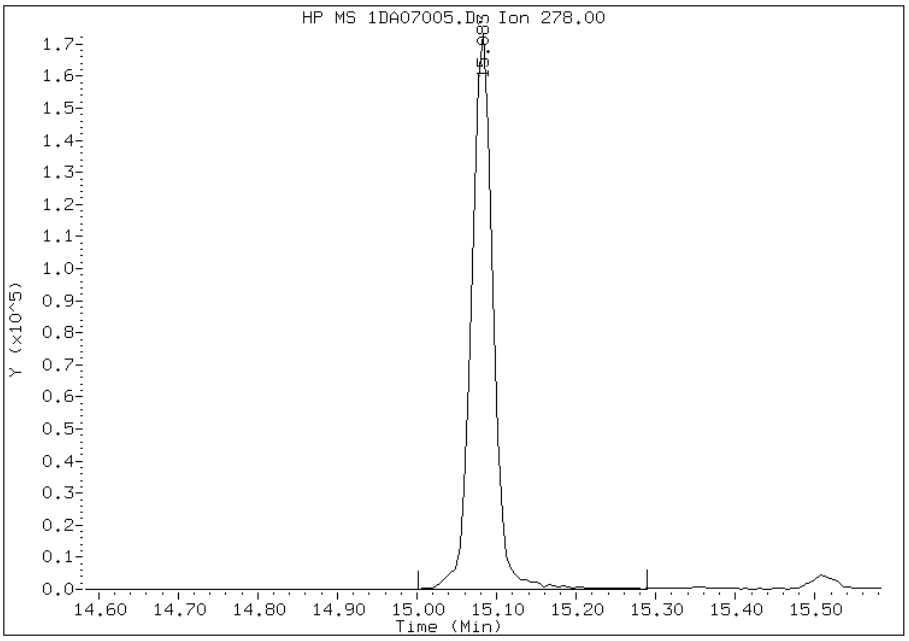
Manual Integration Results

RT: 15.08

Response: 327817

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07005.D
Inj. Date and Time: 07-JAN-2013 11:28
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/07/2013

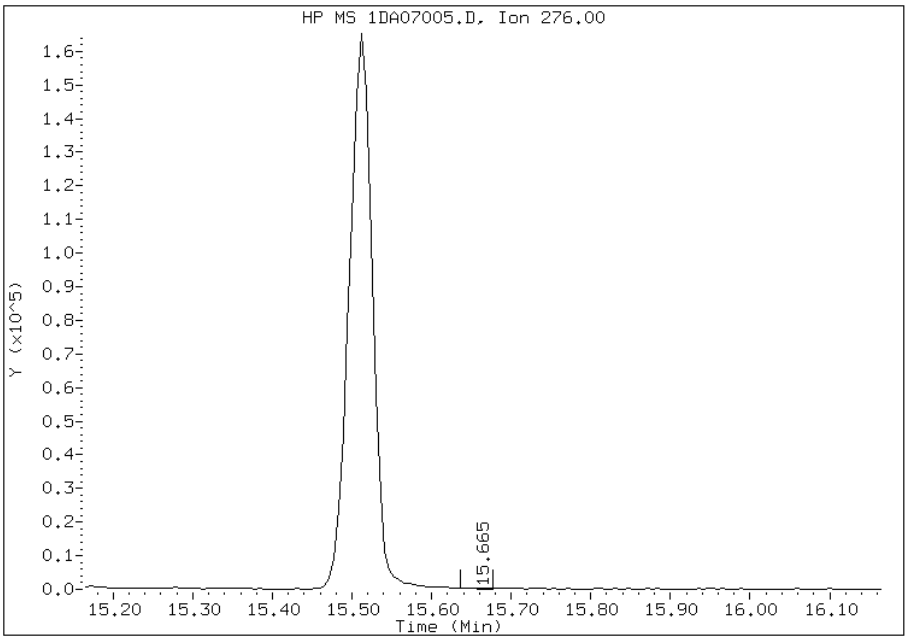
Processing Integration Results

RT: 15.66

Response: 744

Amount: 0

Conc: 0



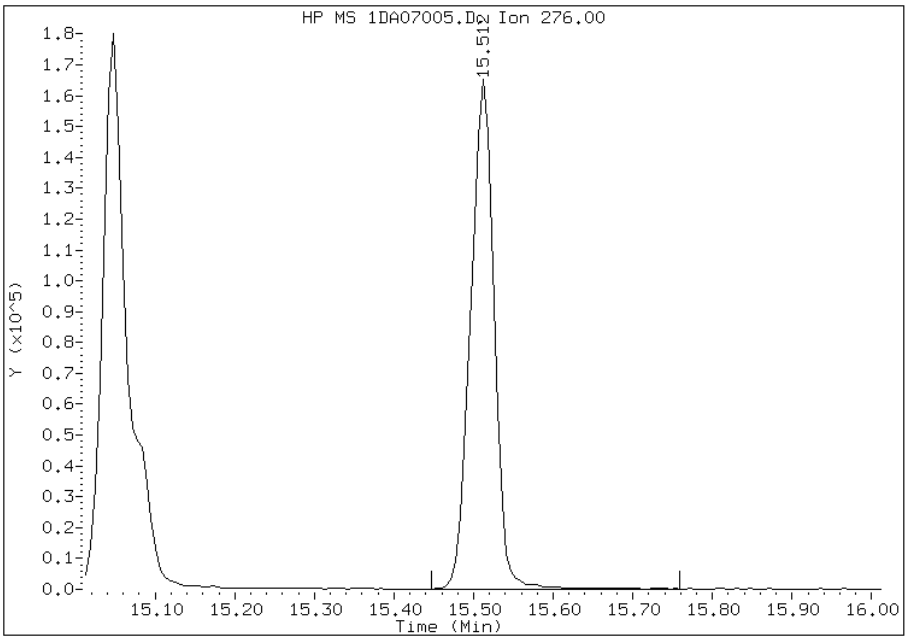
Manual Integration Results

RT: 15.51

Response: 339874

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:46
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07006.D
Lab Smp Id: IC-1489897
Inj Date : 07-JAN-2013 11:50
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 11:28 Cal File: 1DA07005.D
Als bottle: 6 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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.233	6.233	(1.000)	2797975	40.0000	
* 6 Acenaphthene-d10	164	7.902	7.902	(1.000)	1635976	40.0000	
* 9 Phenanthrene-d10	188	9.165	9.165	(1.000)	2664171	40.0000	
$ 13 o-Terphenyl	230	9.471	9.471	(1.033)	416257	10.0000	10
* 17 Chrysene-d12	240	11.521	11.521	(1.000)	2570331	40.0000	
* 22 Perylene-d12	264	13.419	13.419	(1.000)	2661356	40.0000	
2 Naphthalene	128	6.257	6.257	(1.004)	761664	10.0000	10
3 2-Methylnaphthalene	142	6.950	6.950	(1.115)	482221	10.0000	10
4 1-Methylnaphthalene	142	7.044	7.044	(1.130)	456888	10.0000	10
5 Acenaphthylene	152	7.773	7.773	(0.984)	748390	10.0000	10
7 Acenaphthene	154	7.925	7.925	(1.003)	441782	10.0000	10
8 Fluorene	166	8.372	8.372	(1.059)	528668	10.0000	10
10 Phenanthrene	178	9.183	9.183	(1.002)	762869	10.0000	10
11 Anthracene	178	9.218	9.218	(1.006)	773057	10.0000	10
12 Carbazole	167	9.353	9.353	(1.021)	677386	10.0000	10
14 Fluoranthene	202	10.164	10.164	(1.109)	791083	10.0000	10
15 Pyrene	202	10.352	10.352	(0.899)	833624	10.0000	10
16 Benzo(a)anthracene	228	11.498	11.498	(0.998)	726527	10.0000	10
18 Chrysene	228	11.545	11.545	(1.002)	724549	10.0000	10
19 Benzo(b)fluoranthene	252	12.855	12.855	(0.958)	687579	10.0000	10
20 Benzo(k)fluoranthene	252	12.890	12.890	(0.961)	746955	10.0000	10
21 Benzo(a)pyrene	252	13.313	13.313	(0.992)	697964	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	15.052	15.052	(1.122)	723555	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	15.087	15.087	(1.124)	663992	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.522	15.522	(1.157)	696020	10.0000	10(H)

QC Flag Legend

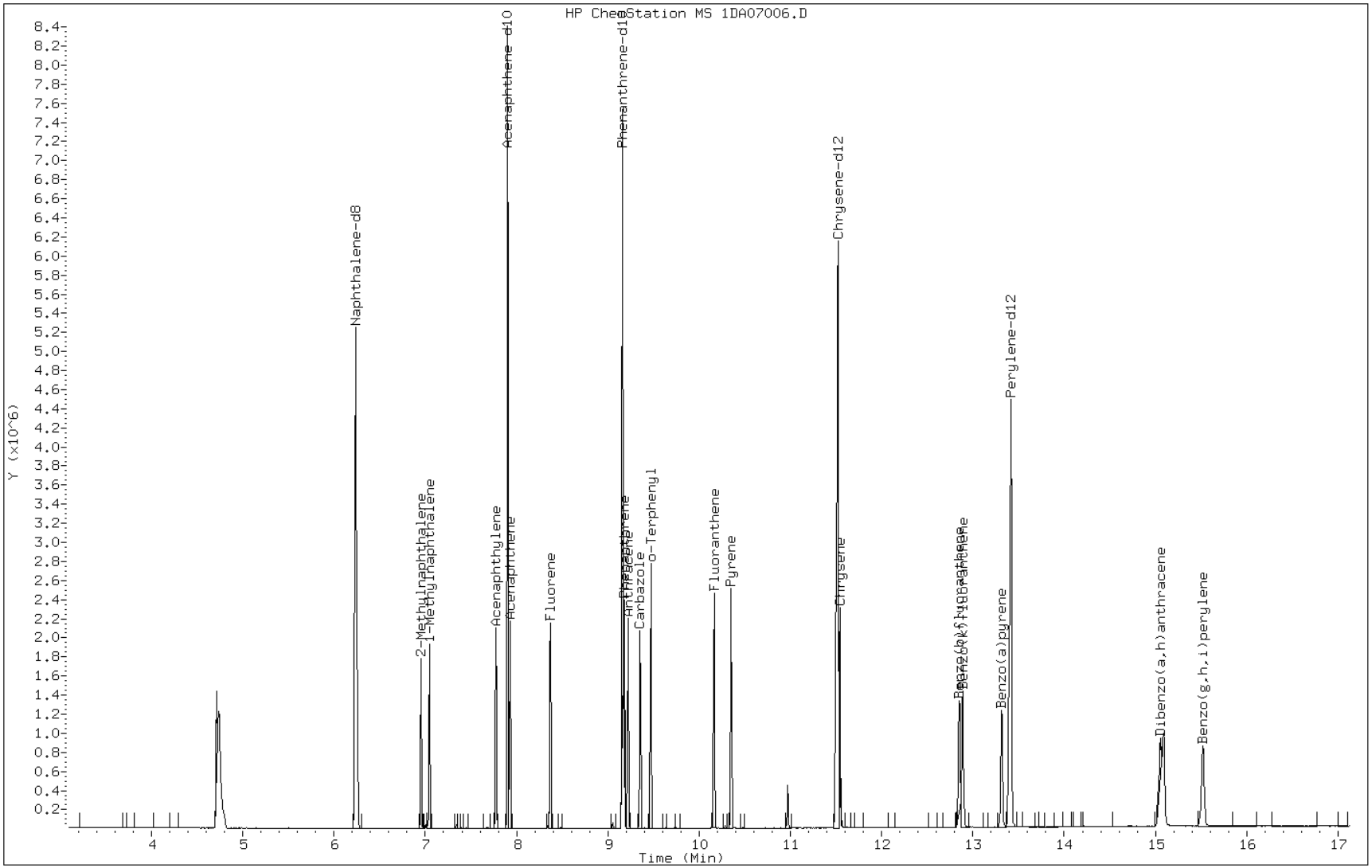
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07006.D

Date: 07-JAN-2013 11:50

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1DA07006.D
Inj. Date and Time: 07-JAN-2013 11:50
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

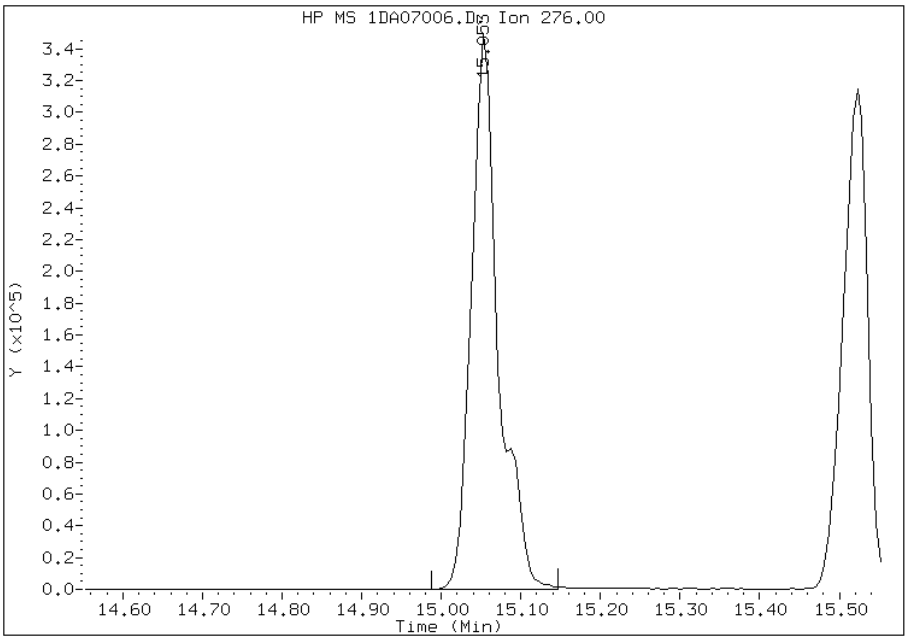
Processing Integration Results

RT: 15.05

Response: 822773

Amount: 11

Conc: 11



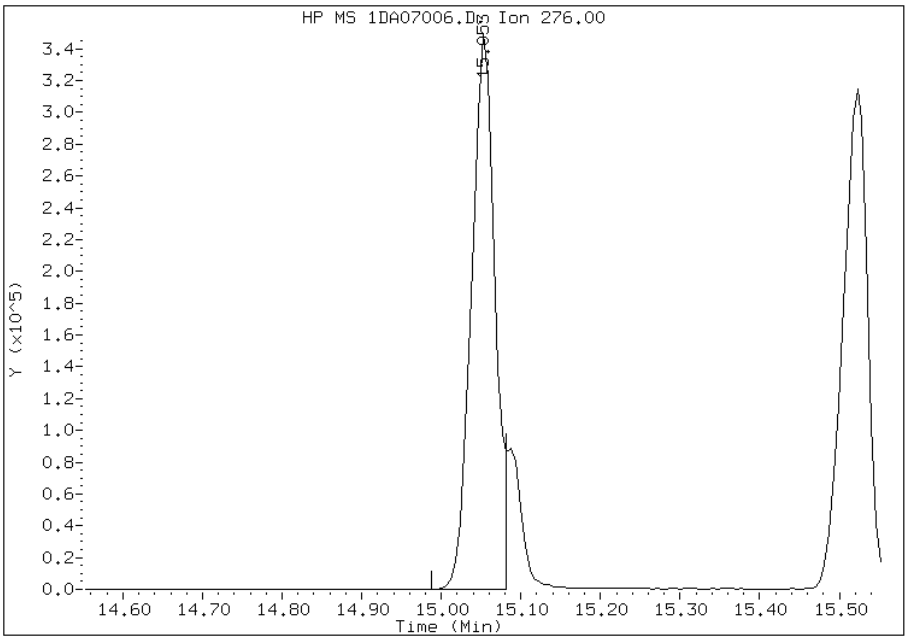
Manual Integration Results

RT: 15.05

Response: 723555

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:47
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07007.D
Lab Smp Id: ICIS-1489898
Inj Date : 07-JAN-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 11:50 Cal File: 1DA07006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

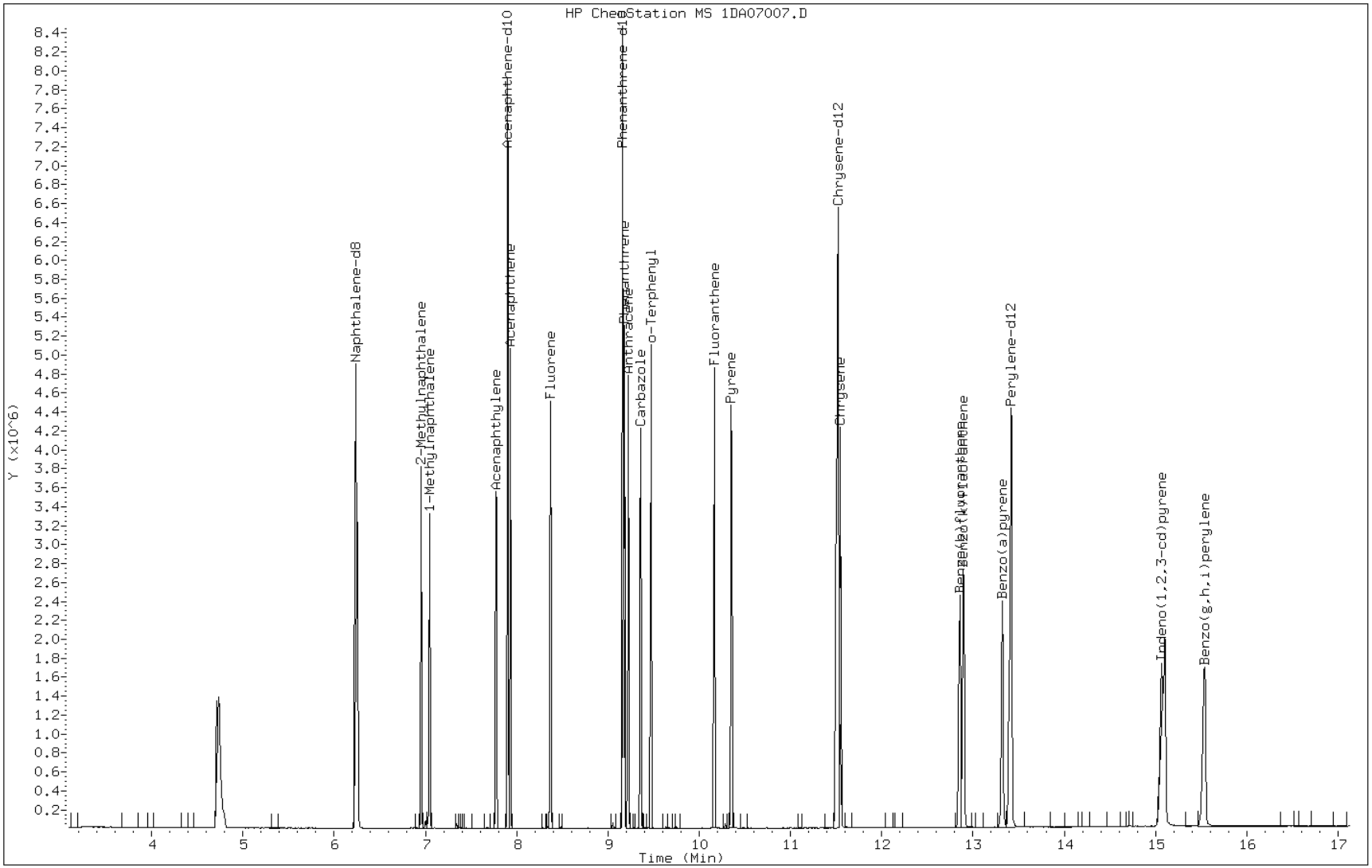
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.232	6.232	(1.000)	2894220	40.0000	
* 6 Acenaphthene-d10	164	7.901	7.901	(1.000)	1692196	40.0000	
* 9 Phenanthrene-d10	188	9.164	9.164	(1.000)	2742443	40.0000	
$ 13 o-Terphenyl	230	9.470	9.470	(1.033)	805710	20.0000	20
* 17 Chrysene-d12	240	11.520	11.520	(1.000)	2671554	40.0000	
* 22 Perylene-d12	264	13.418	13.418	(1.000)	2767955	40.0000	
2 Naphthalene	128	6.256	6.256	(1.004)	1499373	20.0000	20
3 2-Methylnaphthalene	142	6.955	6.955	(1.116)	965566	20.0000	20
4 1-Methylnaphthalene	142	7.043	7.043	(1.130)	900178	20.0000	20
5 Acenaphthylene	152	7.778	7.778	(0.984)	1468866	20.0000	20
7 Acenaphthene	154	7.930	7.930	(1.004)	868428	20.0000	19
8 Fluorene	166	8.371	8.371	(1.059)	1031469	20.0000	19
10 Phenanthrene	178	9.182	9.182	(1.002)	1479086	20.0000	19
11 Anthracene	178	9.223	9.223	(1.006)	1520613	20.0000	20
12 Carbazole	167	9.358	9.358	(1.021)	1354823	20.0000	20
14 Fluoranthene	202	10.163	10.163	(1.109)	1549406	20.0000	20
15 Pyrene	202	10.351	10.351	(0.899)	1653183	20.0000	20
16 Benzo(a)anthracene	228	11.503	11.503	(0.998)	1424873	20.0000	20
18 Chrysene	228	11.550	11.550	(1.003)	1436719	20.0000	19
19 Benzo(b)fluoranthene	252	12.854	12.854	(0.958)	1364545	20.0000	19
20 Benzo(k)fluoranthene	252	12.901	12.901	(0.961)	1480475	20.0000	20
21 Benzo(a)pyrene	252	13.324	13.324	(0.993)	1395303	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	15.063	15.063	(1.123)	1448350	20.0000	20
24 Dibenzo(a,h)anthracene	278	15.104	15.104	(1.126)	1352122	20.0000	20
25 Benzo(g,h,i)perylene	276	15.539	15.539	(1.158)	1385933	20.0000	20

Data File: 1DA07007.D

Date: 07-JAN-2013 12:13

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1489898 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07008.D
Lab Smp Id: IC-1489899
Inj Date : 07-JAN-2013 12:36
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 12:13 Cal File: 1DA07007.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.234	6.234	(1.000)	2819474	40.0000	
* 6 Acenaphthene-d10	164	7.902	7.902	(1.000)	1630580	40.0000	
* 9 Phenanthrene-d10	188	9.166	9.166	(1.000)	2655331	40.0000	
$ 13 o-Terphenyl	230	9.471	9.471	(1.033)	1199919	30.0000	30
* 17 Chrysene-d12	240	11.522	11.522	(1.000)	2562794	40.0000	
* 22 Perylene-d12	264	13.425	13.425	(1.000)	2638585	40.0000	
2 Naphthalene	128	6.257	6.257	(1.004)	2217525	30.0000	30
3 2-Methylnaphthalene	142	6.956	6.956	(1.116)	1421632	30.0000	30
4 1-Methylnaphthalene	142	7.045	7.045	(1.130)	1331678	30.0000	30
5 Acenaphthylene	152	7.779	7.779	(0.984)	2195429	30.0000	31
7 Acenaphthene	154	7.932	7.932	(1.004)	1293933	30.0000	30
8 Fluorene	166	8.372	8.372	(1.059)	1536111	30.0000	30
10 Phenanthrene	178	9.183	9.183	(1.002)	2200797	30.0000	29
11 Anthracene	178	9.224	9.224	(1.006)	2270785	30.0000	30
12 Carbazole	167	9.359	9.359	(1.021)	2014501	30.0000	31
14 Fluoranthene	202	10.164	10.164	(1.109)	2314400	30.0000	30
15 Pyrene	202	10.352	10.352	(0.899)	2464372	30.0000	31
16 Benzo(a)anthracene	228	11.504	11.504	(0.998)	2113434	30.0000	30
18 Chrysene	228	11.551	11.551	(1.003)	2141587	30.0000	30
19 Benzo(b)fluoranthene	252	12.861	12.861	(0.958)	2058806	30.0000	31
20 Benzo(k)fluoranthene	252	12.902	12.902	(0.961)	2168595	30.0000	31
21 Benzo(a)pyrene	252	13.331	13.331	(0.993)	2075812	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	15.076	15.076	(1.123)	2255455	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.112	15.112	(1.126)	2019856	30.0000	31(H)
25 Benzo(g,h,i)perylene	276	15.552	15.552	(1.158)	2079330	30.0000	31(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DA07008.D

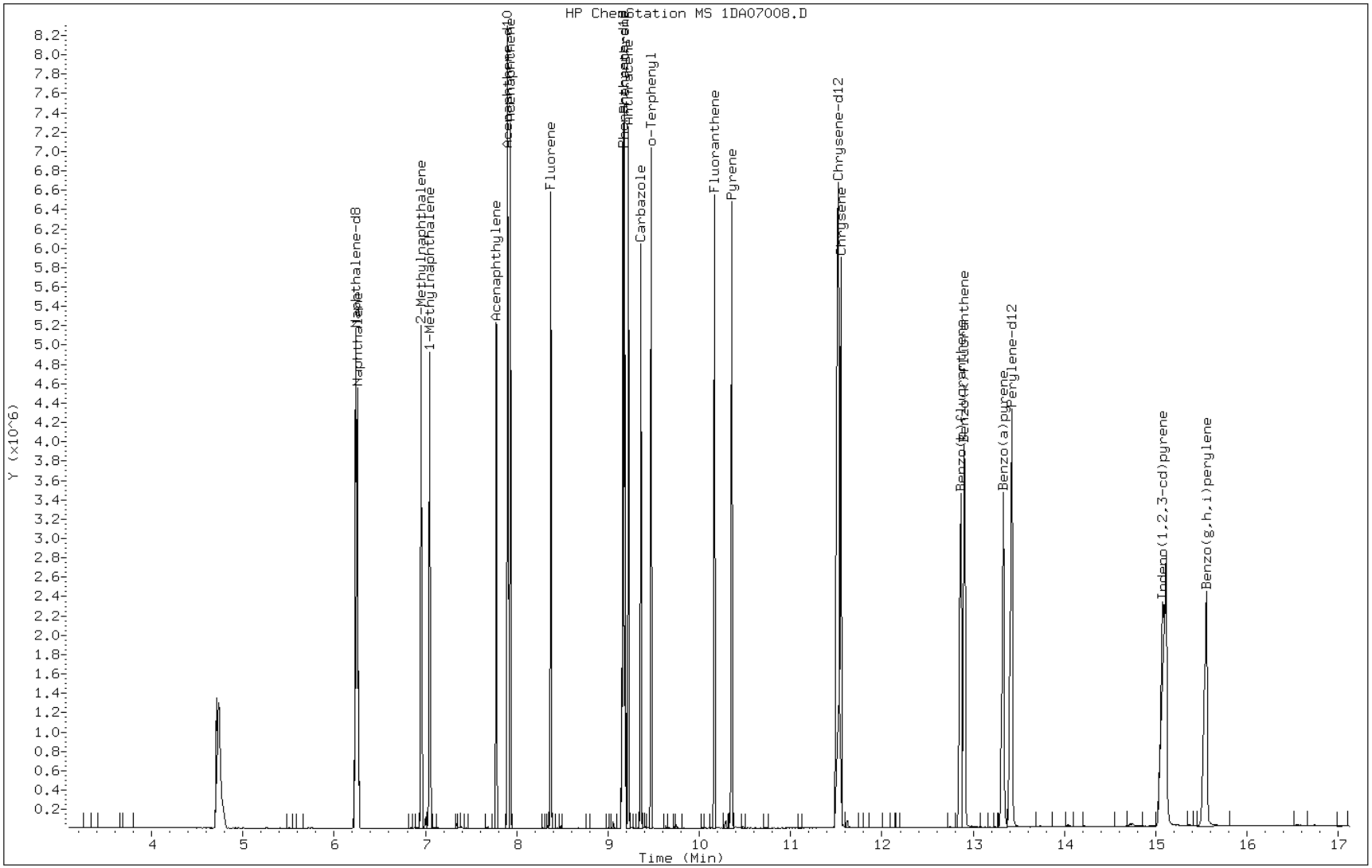
Date: 07-JAN-2013 12:36

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1489899

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07009.D
Lab Smp Id: IC-1489900
Inj Date : 07-JAN-2013 12:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 12:36 Cal File: 1DA07008.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.231	6.231	(1.000)	2635845	40.0000	
* 6 Acenaphthene-d10	164	7.900	7.900	(1.000)	1550449	40.0000	
* 9 Phenanthrene-d10	188	9.163	9.163	(1.000)	2495751	40.0000	
$ 13 o-Terphenyl	230	9.475	9.475	(1.034)	1821099	50.0000	49
* 17 Chrysene-d12	240	11.525	11.525	(1.000)	2455020	40.0000	
* 22 Perylene-d12	264	13.423	13.423	(1.000)	2541536	40.0000	
2 Naphthalene	128	6.255	6.255	(1.004)	3455368	50.0000	50
3 2-Methylnaphthalene	142	6.954	6.954	(1.116)	2191842	50.0000	50
4 1-Methylnaphthalene	142	7.048	7.048	(1.131)	2059513	50.0000	49
5 Acenaphthylene	152	7.777	7.777	(0.984)	3401253	50.0000	51(A)
7 Acenaphthene	154	7.935	7.935	(1.004)	1990525	50.0000	49
8 Fluorene	166	8.376	8.376	(1.060)	2359500	50.0000	49
10 Phenanthrene	178	9.187	9.187	(1.003)	3355969	50.0000	47
11 Anthracene	178	9.228	9.228	(1.007)	3429358	50.0000	49
12 Carbazole	167	9.363	9.363	(1.022)	3068003	50.0000	50
14 Fluoranthene	202	10.168	10.168	(1.110)	3537470	50.0000	50
15 Pyrene	202	10.356	10.356	(0.899)	3756325	50.0000	49
16 Benzo(a)anthracene	228	11.508	11.508	(0.998)	3323349	50.0000	50
18 Chrysene	228	11.555	11.555	(1.003)	3263100	50.0000	47
19 Benzo(b)fluoranthene	252	12.871	12.871	(0.959)	3216419	50.0000	50
20 Benzo(k)fluoranthene	252	12.912	12.912	(0.962)	3338707	50.0000	49
21 Benzo(a)pyrene	252	13.341	13.341	(0.994)	3269544	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	15.092	15.092	(1.124)	3629982	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.133	15.133	(1.127)	3175644	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.573	15.573	(1.160)	3258091	50.0000	50(AH)

QC Flag Legend

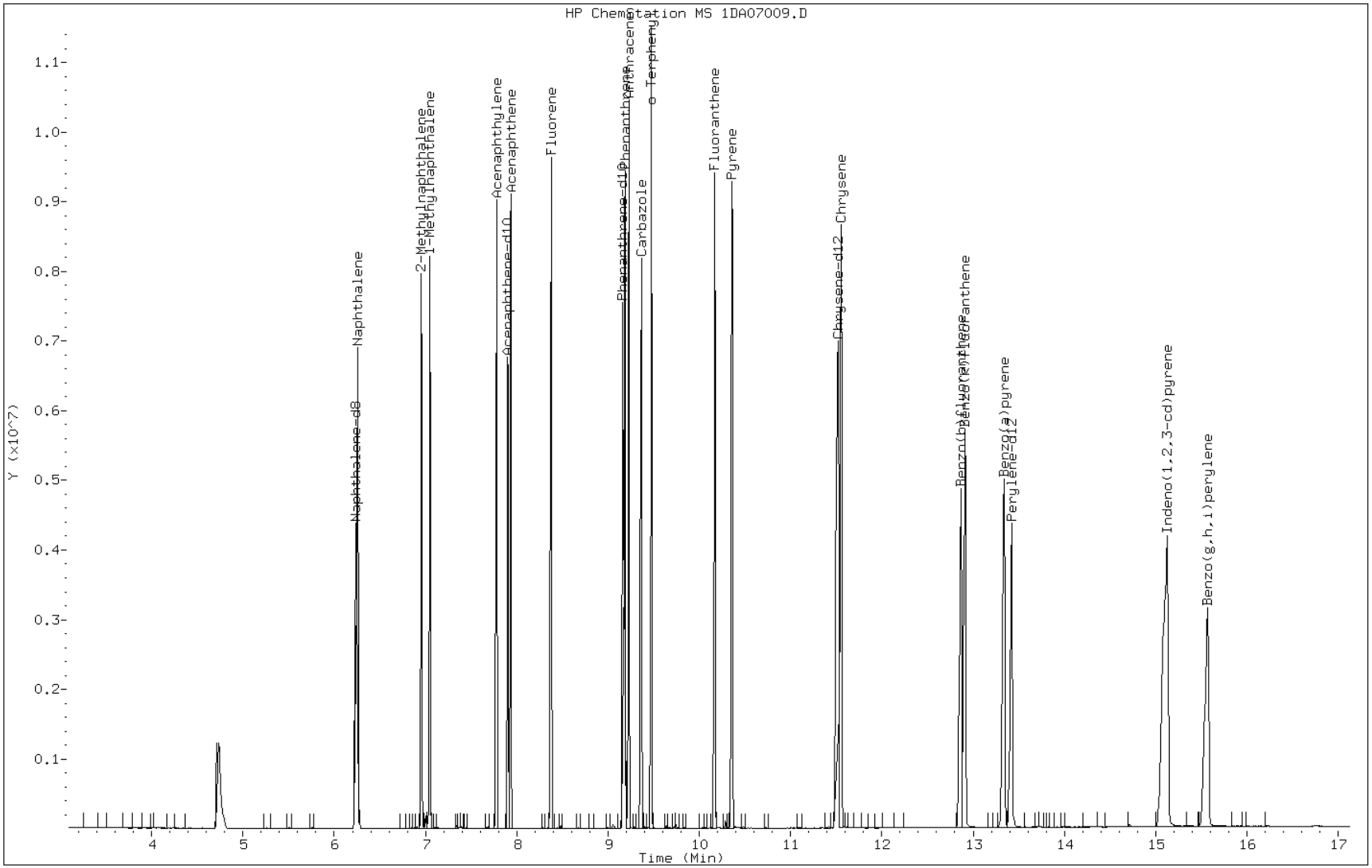
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07009.D

Date: 07-JAN-2013 12:58

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1DA07009.D
Inj. Date and Time: 07-JAN-2013 12:58
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

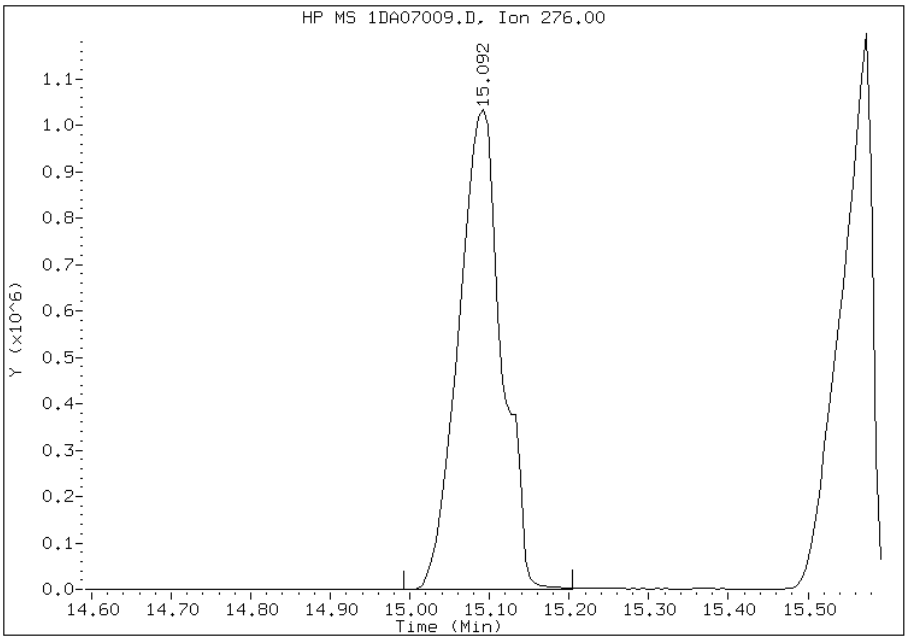
Processing Integration Results

RT: 15.09

Response: 3898805

Amount: 53

Conc: 53



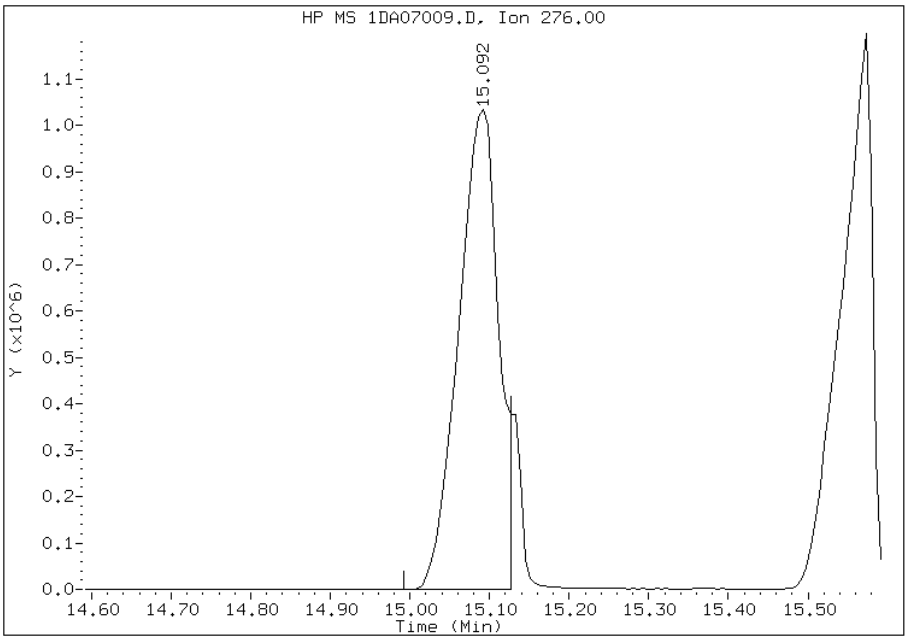
Manual Integration Results

RT: 15.09

Response: 3629982

Amount: 53

Conc: 53



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:48
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Lab Sample ID: ICV 660-134771/10 Calibration Date: 02/22/2013 12:48

Instrument ID: BSMA5973 Calib Start Date: 02/22/2013 11:01

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 12:32

Lab File ID: 1AB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9639	1.041	0.0000	21600	20000	8.0	35.0
2-Methylnaphthalene	Ave	0.4976	0.6073	0.0000	24400	20000	22.1	35.0
1-Methylnaphthalene	Ave	0.5541	0.6133	0.0000	22100	20000	10.7	35.0
Acenaphthylene	Ave	1.494	1.591	0.0000	21300	20000	6.5	35.0
Acenaphthene	Ave	0.8630	0.9140	0.0000	21200	20000	5.9	35.0
Fluorene	Ave	1.089	1.173	0.0000	21500	20000	7.7	35.0
Phenanthrene	Ave	0.9943	1.047	0.0000	21100	20000	5.3	35.0
Anthracene	Ave	0.9658	1.032	0.0000	21400	20000	6.8	35.0
Carbazole	Ave	0.8526	0.6904	0.0000	16200	20000	-19.0	35.0
Fluoranthene	Ave	0.9941	1.121	0.0000	22600	20000	12.8	35.0
Pyrene	Ave	1.173	1.180	0.0000	20100	20000	0.5	35.0
Benzo[a]anthracene	LinF	1.255	1.249	0.0000	20900	20000	4.6	35.0
Chrysene	Ave	1.068	1.082	0.0000	20300	20000	1.3	35.0
Benzo[b]fluoranthene	Ave	1.014	1.214	0.0000	23900	20000	19.7	35.0
Benzo[k]fluoranthene	Ave	1.020	0.9836	0.0000	19300	20000	-3.6	35.0
Benzo[a]pyrene	Ave	0.9286	0.9134	0.0000	19700	20000	-1.6	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.7967	0.8998	0.0000	22600	20000	12.9	35.0
Dibenz(a,h)anthracene	Ave	0.8302	0.9949	0.0000	24000	20000	19.8	35.0
Benzo[g,h,i]perylene	Ave	0.8473	0.9097	0.0000	21500	20000	7.4	35.0
o-Terphenyl	Ave	0.5820	0.5933	0.0000	20400	20000	1.9	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 12:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.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	2.399	2.397	(1.000)	1470215	40.0000	
* 6 Acenaphthene-d10	164	3.420	3.417	(1.000)	948405	40.0000	
* 10 Phenanthrene-d10	188	4.360	4.352	(1.000)	1446139	40.0000	
$ 14 o-Terphenyl	230	4.632	4.635	(1.062)	428980	20.3860	20.3860
* 18 Chrysene-d12	240	6.374	6.366	(1.000)	1373239	40.0000	
* 23 Perylene-d12	264	7.464	7.456	(1.000)	1363331	40.0000	
2 Naphthalene	128	2.405	2.402	(1.002)	765124	21.5974	21.5973
3 2-Methylnaphthalene	141	2.811	2.808	(1.171)	446439	24.4108	24.4108
4 1-Methylnaphthalene	142	2.864	2.861	(1.194)	450855	22.1381	22.1381
5 Acenaphthylene	152	3.334	3.332	(0.975)	754514	21.3067	21.3066
7 Acenaphthene	154	3.441	3.433	(1.006)	433440	21.1828	21.1827
9 Fluorene	166	3.751	3.743	(1.097)	556408	21.5449	21.5448
11 Phenanthrene	178	4.376	4.368	(1.004)	756904	21.0566	21.0566
12 Anthracene	178	4.408	4.400	(1.011)	745923	21.3632	21.3632
13 Carbazole	167	4.552	4.555	(1.044)	499181	16.1953	16.1952(M)
15 Fluoranthene	202	5.231	5.228	(1.200)	810723	22.5570	22.5570
16 Pyrene	202	5.396	5.394	(0.847)	809912	20.1075	20.1075

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.363	6.355	(0.998)	857818	20.9204	20.9204
19 Chrysene	228	6.390	6.387	(1.002)	742781	20.2547	20.2547
20 Benzo(b)fluoranthene	252	7.186	7.178	(0.963)	827441	23.9419	23.9419
21 Benzo(k)fluoranthene	252	7.207	7.199	(0.966)	670501	19.2840	19.2839
22 Benzo(a)pyrene	252	7.410	7.408	(0.993)	622627	19.6723	19.6722
24 Indeno(1,2,3-cd)pyrene	276	8.190	8.177	(1.097)	613332	22.5881	22.5880(M)
25 Dibenzo(a,h)anthracene	278	8.206	8.193	(1.099)	678184	23.9679	23.9678
26 Benzo(g,h,i)perylene	276	8.399	8.385	(1.125)	620086	21.4710	21.4710

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AB22010.D

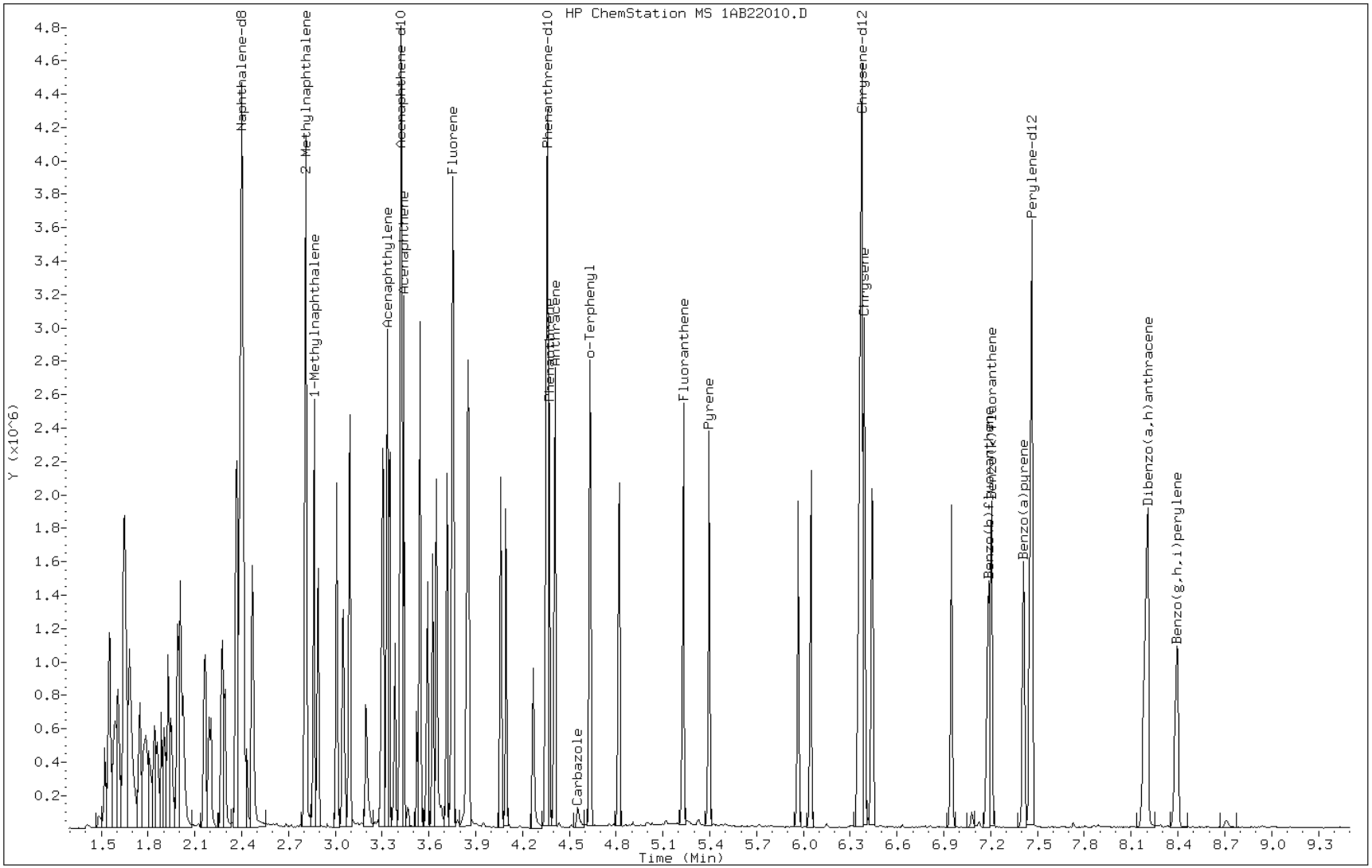
Date: 22-FEB-2013 12:48

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1AB22010.D
Inj. Date and Time: 22-FEB-2013 12:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

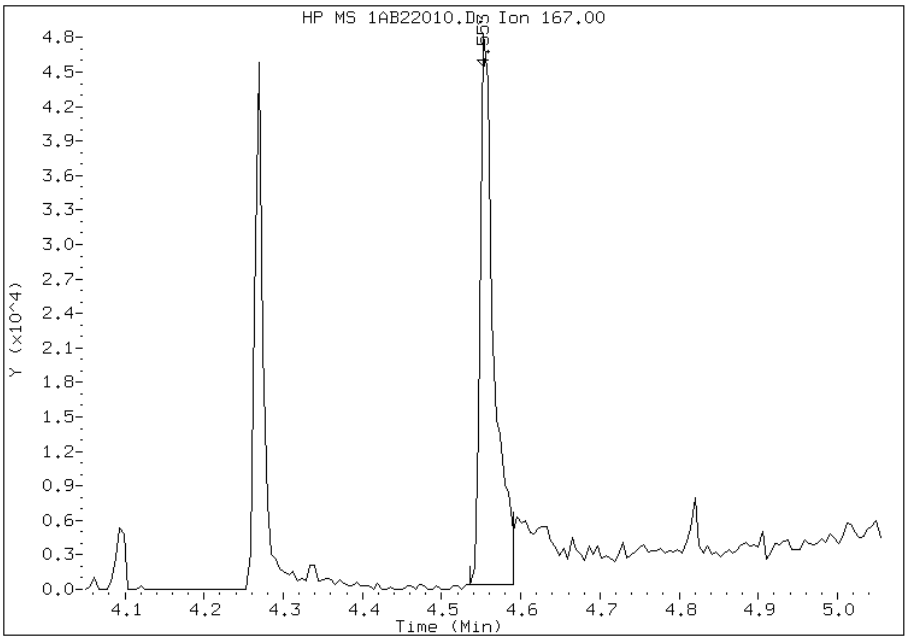
Processing Integration Results

RT: 4.55

Response: 57208

Amount: 2

Conc: 2



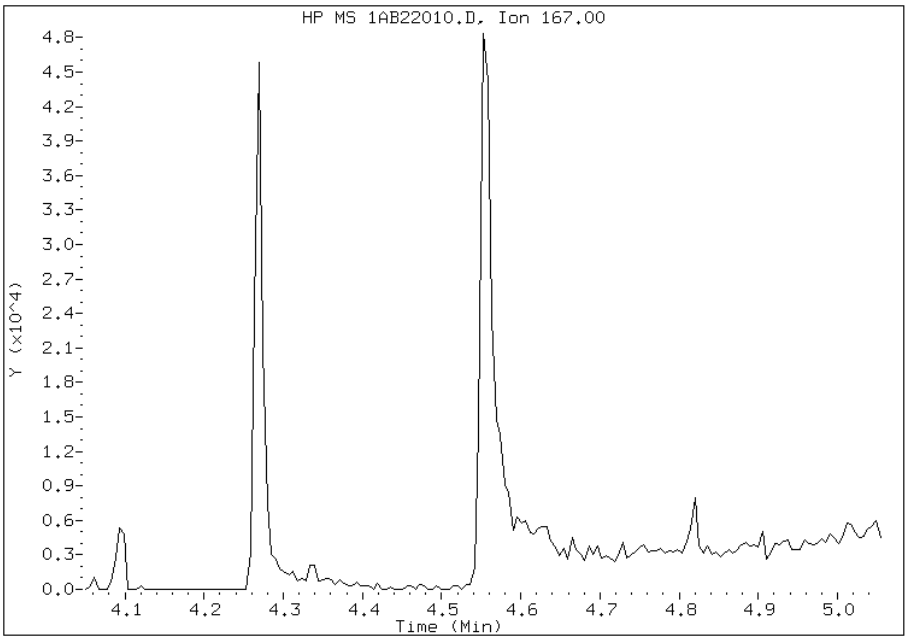
Manual Integration Results

RT: 4.55

Response: 499181

Amount: 16

Conc: 16



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 13:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22010.D
Inj. Date and Time: 22-FEB-2013 12:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

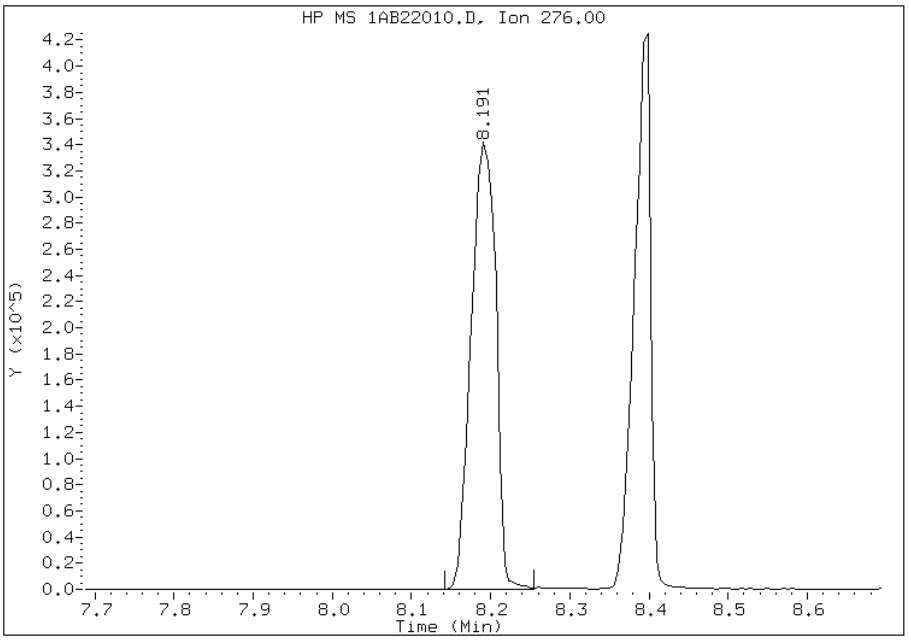
Processing Integration Results

RT: 8.19

Response: 733813

Amount: 27

Conc: 27



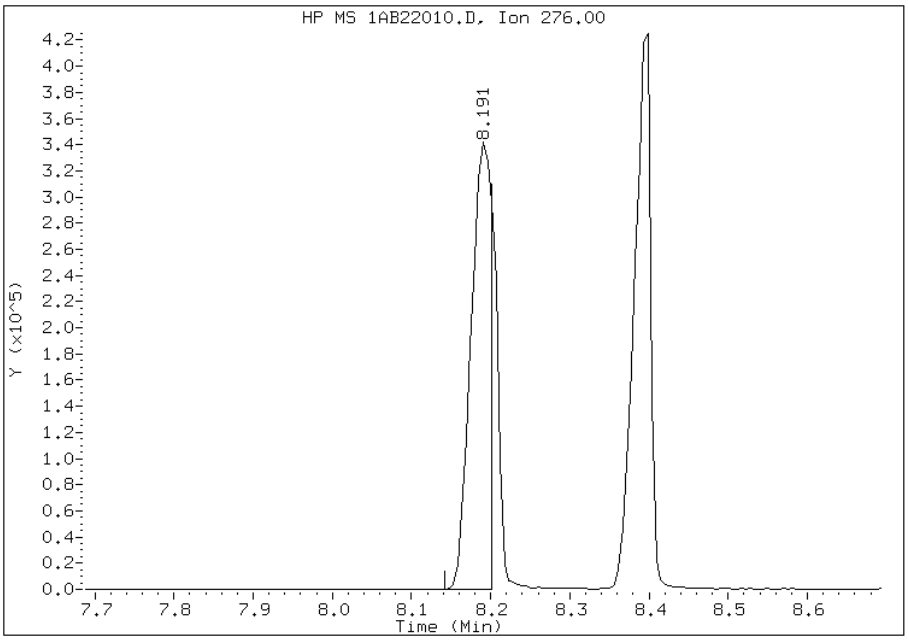
Manual Integration Results

RT: 8.19

Response: 613332

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 13:02
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Lab Sample ID: CCVIS 660-134820/6 Calibration Date: 02/25/2013 14:59

Instrument ID: BSMA5973 Calib Start Date: 02/22/2013 11:01

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 12:32

Lab File ID: 1AB25006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9639	0.9188	0.0000	19100	20000	-4.7	20.0
2-Methylnaphthalene	Ave	0.4976	0.4755	0.0000	19100	20000	-4.4	20.0
1-Methylnaphthalene	Ave	0.5541	0.5294	0.0000	19100	20000	-4.5	20.0
Acenaphthylene	Ave	1.494	1.502	0.0000	20100	20000	0.6	20.0
Acenaphthene	Ave	0.8630	0.8273	0.0000	19200	20000	-4.1	20.0
Fluorene	Ave	1.089	1.050	0.0000	19300	20000	-3.6	20.0
Phenanthrene	Ave	0.9943	1.040	0.0000	20900	20000	4.6	20.0
Anthracene	Ave	0.9658	1.026	0.0000	21300	20000	6.3	20.0
Carbazole	Ave	0.8526	0.8692	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	0.9941	1.046	0.0000	21100	20000	5.3	20.0
Pyrene	Ave	1.173	1.262	0.0000	21500	20000	7.5	20.0
Benzo[a]anthracene	LinF	1.255	1.172	0.0000	19600	20000	-1.8	20.0
Chrysene	Ave	1.068	1.037	0.0000	19400	20000	-2.9	20.0
Benzo[b]fluoranthene	Ave	1.014	0.9469	0.0000	18700	20000	-6.6	20.0
Benzo[k]fluoranthene	Ave	1.020	1.188	0.0000	23300	20000	16.5	20.0
Benzo[a]pyrene	Ave	0.9286	0.9719	0.0000	20900	20000	4.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.7967	0.7535	0.0000	18900	20000	-5.4	20.0
Dibenz(a,h)anthracene	Ave	0.8302	0.8248	0.0000	19900	20000	-0.6	20.0
Benzo[g,h,i]perylene	Ave	0.8473	0.8531	0.0000	20100	20000	0.7	20.0
o-Terphenyl	Ave	0.5820	0.5637	0.0000	19400	20000	-3.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25006.D
Lab Smp Id: CCVIS-1512372
Inj Date : 25-FEB-2013 14:59
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.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	2.379	2.379	(1.000)	843764	40.0000	
* 6 Acenaphthene-d10	164	3.404	3.404	(1.000)	532930	40.0000	
* 10 Phenanthrene-d10	188	4.339	4.339	(1.000)	749974	40.0000	
$ 14 o-Terphenyl	230	4.622	4.622	(1.065)	211362	20.0000	19.3680
* 18 Chrysene-d12	240	6.353	6.353	(1.000)	646044	40.0000	
* 23 Perylene-d12	264	7.443	7.443	(1.000)	653985	40.0000	
2 Naphthalene	128	2.389	2.389	(1.004)	387639	20.0000	19.0658
3 2-Methylnaphthalene	141	2.790	2.790	(1.173)	200599	20.0000	19.1121
4 1-Methylnaphthalene	142	2.849	2.849	(1.198)	223331	20.0000	19.1079
5 Acenaphthylene	152	3.319	3.319	(0.975)	400298	20.0000	20.1166
7 Acenaphthene	154	3.420	3.420	(1.005)	220447	20.0000	19.1726
9 Fluorene	166	3.730	3.730	(1.096)	279917	20.0000	19.2887
11 Phenanthrene	178	4.355	4.355	(1.004)	390104	20.0000	20.9262
12 Anthracene	178	4.387	4.387	(1.011)	384839	20.0000	21.2527
13 Carbazole	167	4.542	4.542	(1.047)	325931	20.0000	20.3901
15 Fluoranthene	202	5.215	5.215	(1.202)	392359	20.0000	21.0502
16 Pyrene	202	5.381	5.381	(0.847)	407585	20.0000	21.5091
17 Benzo(a)anthracene	228	6.342	6.342	(0.998)	378684	20.0000	19.6307
19 Chrysene	228	6.369	6.369	(1.003)	335032	20.0000	19.4194
20 Benzo(b)fluoranthene	252	7.165	7.165	(0.963)	309635	20.0000	18.6769
21 Benzo(k)fluoranthene	252	7.181	7.181	(0.965)	388543	20.0000	23.2953
22 Benzo(a)pyrene	252	7.390	7.390	(0.993)	317805	20.0000	20.9325
24 Indeno(1,2,3-cd)pyrene	276	8.164	8.164	(1.097)	246391	20.0000	18.9165(M)
25 Dibenzo(a,h)anthracene	278	8.180	8.180	(1.099)	269706	20.0000	19.8703
26 Benzo(g,h,i)perylene	276	8.367	8.367	(1.124)	278972	20.0000	20.1370

QC Flag Legend

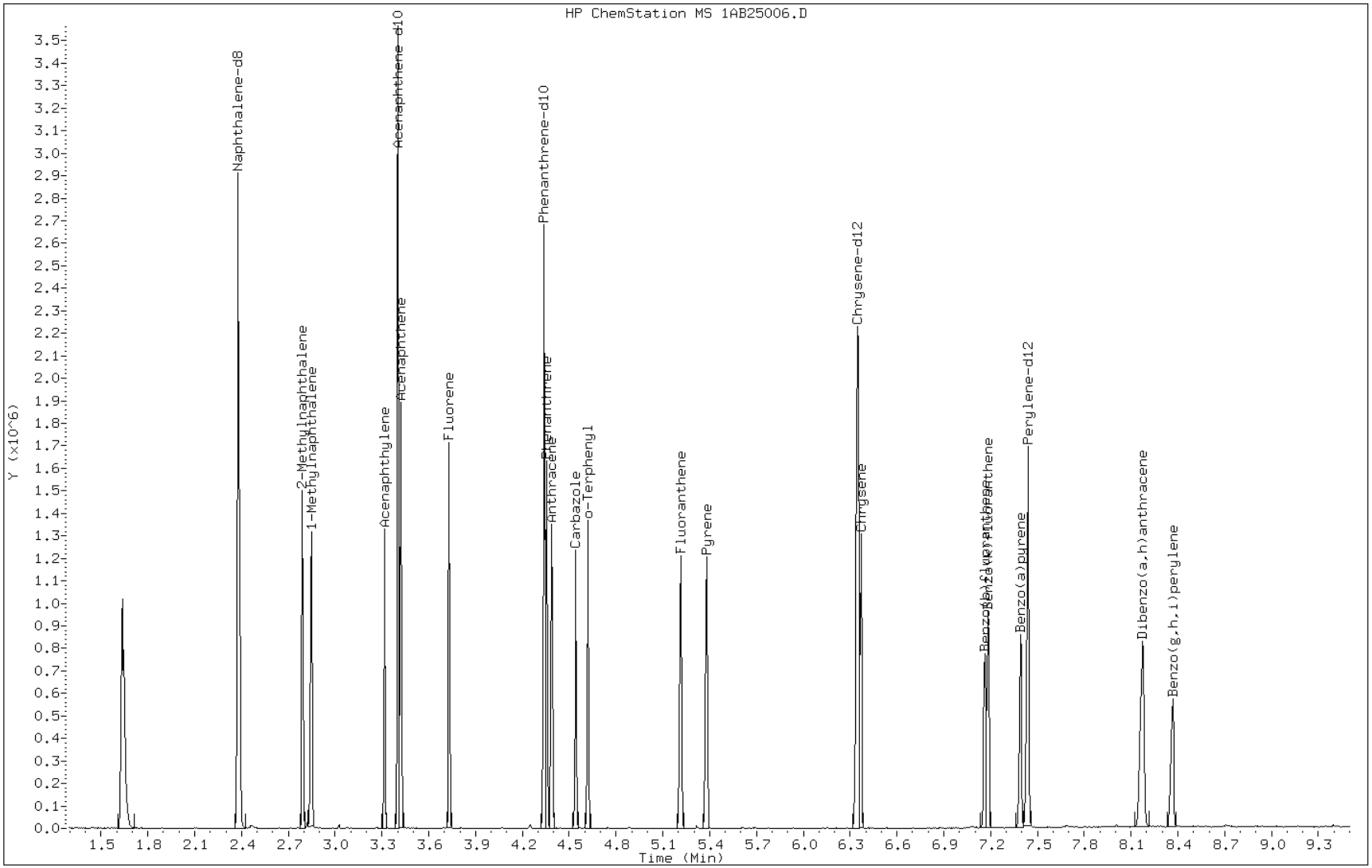
M - Compound response manually integrated.

Data File: 1AB25006.D

Date: 25-FEB-2013 14:59

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1AB25006.D
Inj. Date and Time: 25-FEB-2013 14:59
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

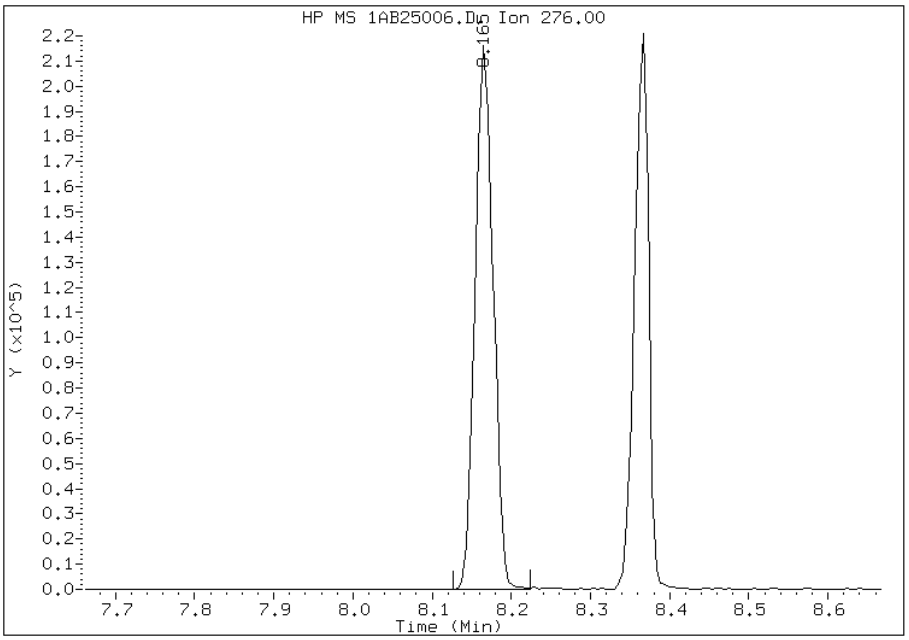
Processing Integration Results

RT: 8.16

Response: 337982

Amount: 26

Conc: 26



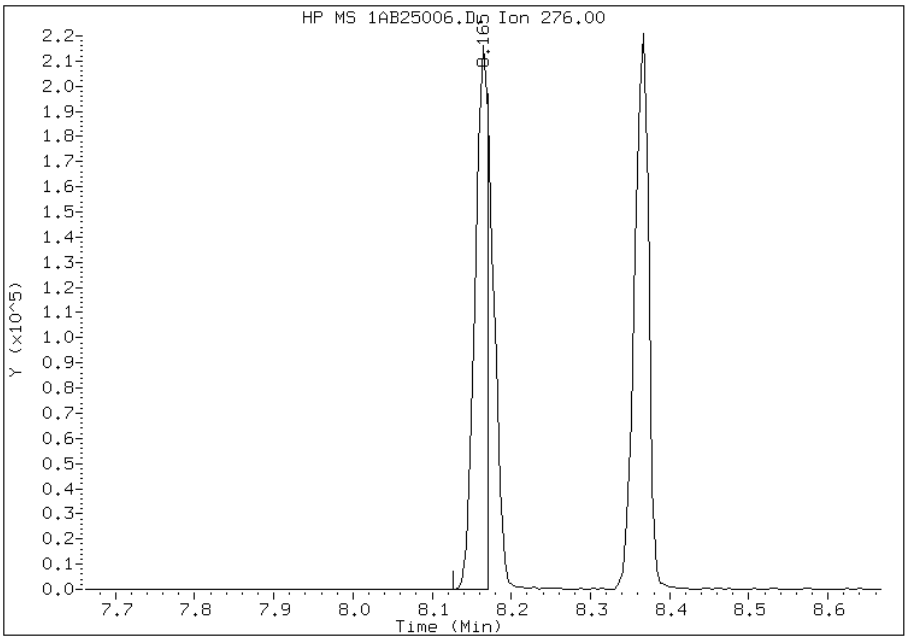
Manual Integration Results

RT: 8.16

Response: 246391

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 15:12
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Lab Sample ID: ICV 660-133192/10 Calibration Date: 01/07/2013 13:20

Instrument ID: BSMD5973 Calib Start Date: 01/07/2013 10:43

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 12:58

Lab File ID: 1DA07010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.058	1.013	0.0000	19100	20000	-4.3	35.0
2-Methylnaphthalene	Ave	0.6719	0.6636	0.0000	19800	20000	-1.2	35.0
1-Methylnaphthalene	Ave	0.6320	0.6314	0.0000	20000	20000	-0.0	35.0
Acenaphthylene	Ave	1.727	1.728	0.0000	20000	20000	0.0	35.0
Acenaphthene	Ave	1.053	1.018	0.0000	19300	20000	-3.4	35.0
Fluorene	Ave	1.251	1.218	0.0000	19500	20000	-2.7	35.0
Phenanthrene	Ave	1.143	1.025	0.0000	17900	20000	-10.3	35.0
Anthracene	Ave	1.120	1.044	0.0000	18600	20000	-6.8	35.0
Carbazole	Ave	0.9917	0.8873	0.0000	17900	20000	-10.5	35.0
Fluoranthene	Ave	1.145	1.111	0.0000	19400	20000	-3.0	35.0
Pyrene	Ave	1.249	1.160	0.0000	18600	20000	-7.1	35.0
Benzo[a]anthracene	Ave	1.170	1.094	0.0000	18700	20000	-6.5	35.0
Chrysene	Ave	1.127	1.028	0.0000	18200	20000	-8.8	35.0
Benzo[b]fluoranthene	Ave	1.015	0.995	0.0000	19600	20000	-2.0	35.0
Benzo[k]fluoranthene	Ave	1.073	1.046	0.0000	19500	20000	-2.5	35.0
Benzo[a]pyrene	Ave	1.001	0.8964	0.0000	17900	20000	-10.5	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.069	0.9676	0.0000	18100	20000	-9.5	35.0
Dibenz(a,h)anthracene	Ave	0.9805	1.052	0.0000	21500	20000	7.3	35.0
Benzo[g,h,i]perylene	Ave	1.022	0.9893	0.0000	19400	20000	-3.2	35.0
o-Terphenyl	Ave	0.5939	0.5462	0.0000	18400	20000	-8.0	35.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07010.D
Lab Smp Id: ICV-1448440
Inj Date : 07-JAN-2013 13:20
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:51 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.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/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.237	6.232	(1.000)	2887037	40.0000	
* 6 Acenaphthene-d10	164	7.905	7.900	(1.000)	1699245	40.0000	
* 9 Phenanthrene-d10	188	9.163	9.164	(1.000)	2845473	40.0000	
$ 13 o-Terphenyl	230	9.474	9.475	(1.034)	777100	18.3935	18
* 17 Chrysene-d12	240	11.525	11.526	(1.000)	2715172	40.0000	
* 22 Perylene-d12	264	13.422	13.423	(1.000)	2800784	40.0000	
2 Naphthalene	128	6.254	6.255	(1.003)	1461632	19.1436	19
3 2-Methylnaphthalene	142	6.953	6.955	(1.115)	957886	19.7532	20
4 1-Methylnaphthalene	142	7.047	7.049	(1.130)	911441	19.9820	20
5 Acenaphthylene	152	7.776	7.777	(0.984)	1467855	20.0076	20
7 Acenaphthene	154	7.935	7.936	(1.004)	864809	19.3285	19
8 Fluorene	166	8.375	8.375	(1.059)	1034681	19.4627	19
10 Phenanthrene	178	9.180	9.187	(1.002)	1457645	17.9308	18
11 Anthracene	178	9.221	9.228	(1.006)	1485019	18.6447	19
12 Carbazole	167	9.362	9.363	(1.022)	1262422	17.8955	18(M)
14 Fluoranthene	202	10.167	10.168	(1.110)	1580475	19.4089	19
15 Pyrene	202	10.355	10.356	(0.899)	1574825	18.5765	18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.501	11.508	(0.998)	1485600	18.7054	19
18 Chrysene	228	11.548	11.555	(1.002)	1395285	18.2322	18
19 Benzo(b)fluoranthene	252	12.858	12.871	(0.958)	1393918	19.6056	20
20 Benzo(k)fluoranthene	252	12.899	12.912	(0.961)	1464216	19.4970	19
21 Benzo(a)pyrene	252	13.322	13.341	(0.993)	1255249	17.9068	18
23 Indeno(1,2,3-cd)pyrene	276	15.067	15.092	(1.123)	1354952	18.1092	18(H)
24 Dibenzo(a,h)anthracene	278	15.103	15.133	(1.125)	1472756	21.4507	21
25 Benzo(g,h,i)perylene	276	15.543	15.574	(1.158)	1385369	19.3523	19

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07010.D

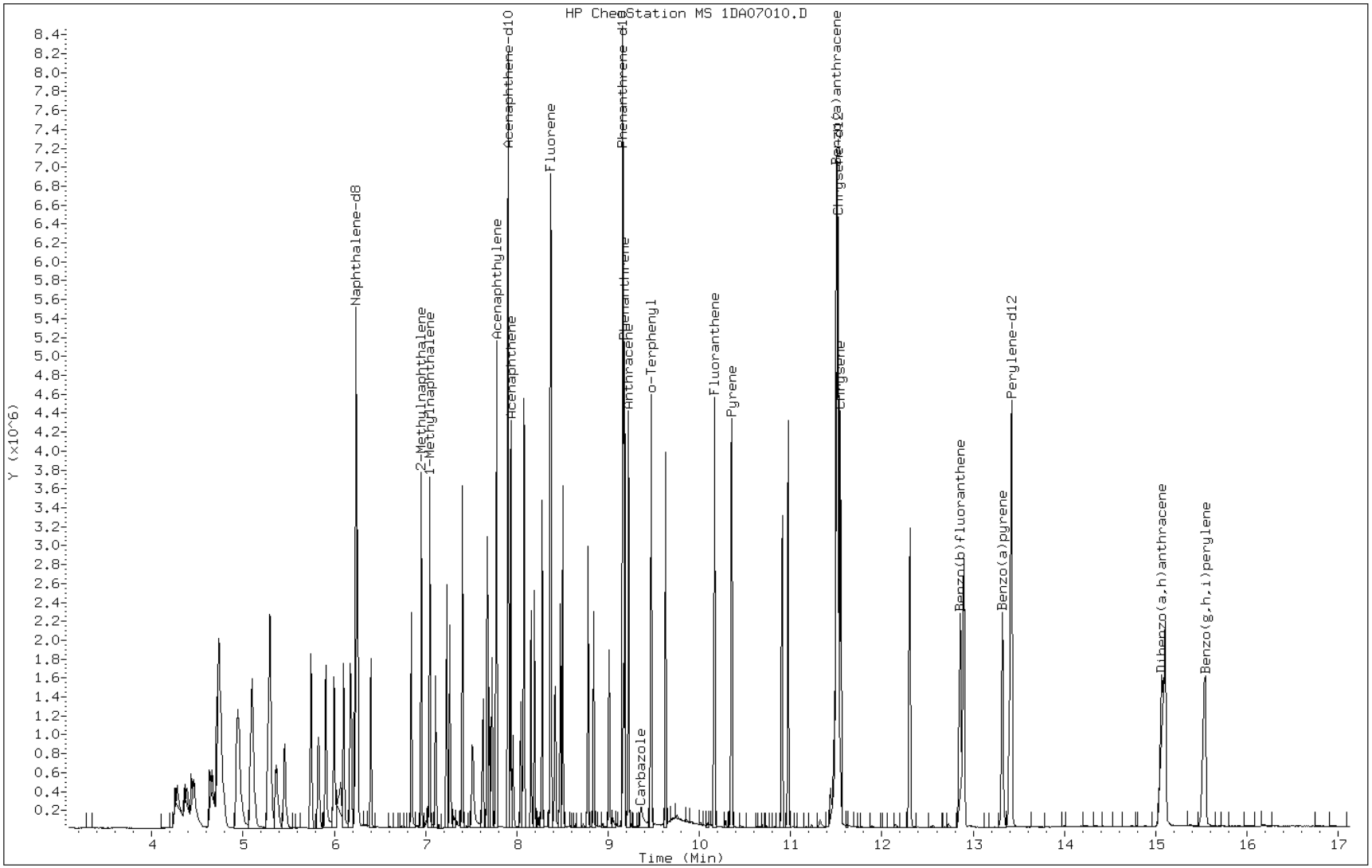
Date: 07-JAN-2013 13:20

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1DA07010.D
Inj. Date and Time: 07-JAN-2013 13:20
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 01/07/2013

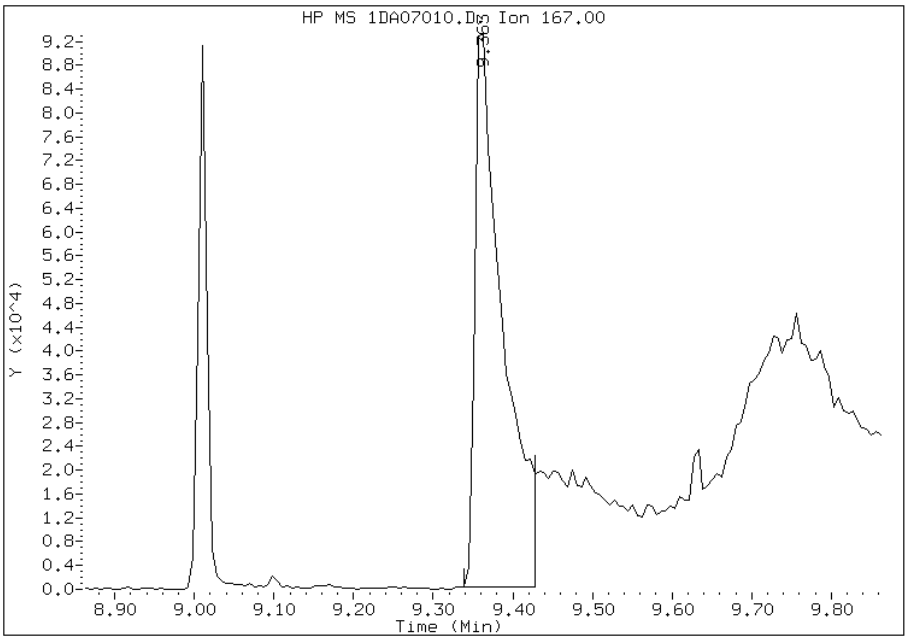
Processing Integration Results

RT: 9.36

Response: 225785

Amount: 3

Conc: 3



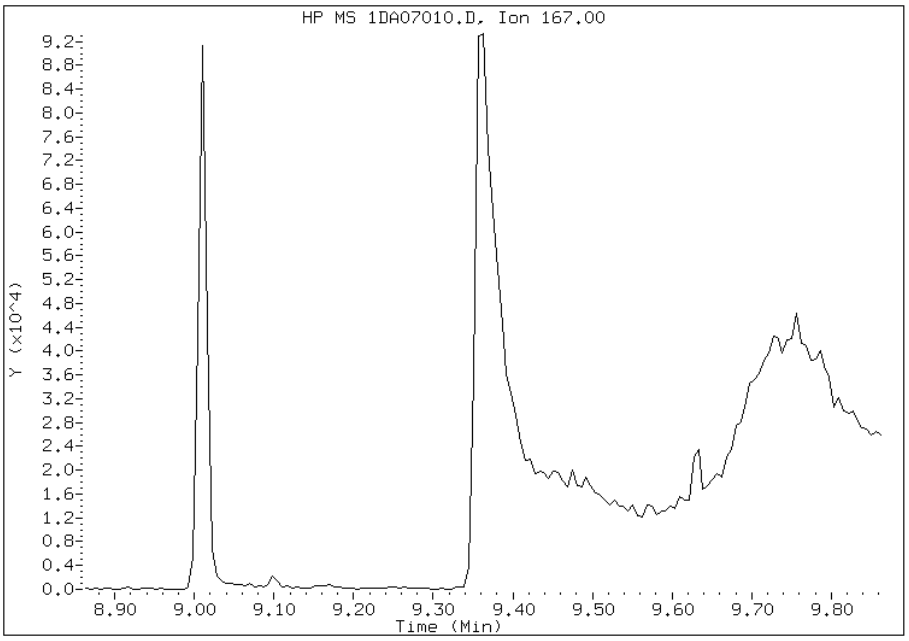
Manual Integration Results

RT: 9.36

Response: 1262422

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:54
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Lab Sample ID: CCVIS 660-134722/3 Calibration Date: 02/21/2013 11:57

Instrument ID: BSMD5973 Calib Start Date: 01/07/2013 10:43

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 12:58

Lab File ID: 1DB21003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.058	1.039	0.0000	19600	20000	-1.8	20.0
2-Methylnaphthalene	Ave	0.6719	0.6709	0.0000	20000	20000	-0.2	20.0
1-Methylnaphthalene	Ave	0.6320	0.6392	0.0000	20200	20000	1.1	20.0
Acenaphthylene	Ave	1.727	1.746	0.0000	20200	20000	1.1	20.0
Acenaphthene	Ave	1.053	1.045	0.0000	19800	20000	-0.8	20.0
Fluorene	Ave	1.251	1.242	0.0000	19900	20000	-0.7	20.0
Phenanthrene	Ave	1.143	1.086	0.0000	19000	20000	-4.9	20.0
Anthracene	Ave	1.120	1.123	0.0000	20100	20000	0.3	20.0
Carbazole	Ave	0.9917	0.9929	0.0000	20000	20000	0.1	20.0
Fluoranthene	Ave	1.145	1.165	0.0000	20400	20000	1.8	20.0
Pyrene	Ave	1.249	1.223	0.0000	19600	20000	-2.1	20.0
Benzo[a]anthracene	Ave	1.170	1.085	0.0000	18500	20000	-7.3	20.0
Chrysene	Ave	1.127	1.084	0.0000	19200	20000	-3.8	20.0
Benzo[b]fluoranthene	Ave	1.015	1.028	0.0000	20300	20000	1.3	20.0
Benzo[k]fluoranthene	Ave	1.073	1.023	0.0000	19100	20000	-4.6	20.0
Benzo[a]pyrene	Ave	1.001	1.017	0.0000	20300	20000	1.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.069	1.077	0.0000	20200	20000	0.8	20.0
Dibenz(a,h)anthracene	Ave	0.9805	0.9932	0.0000	20300	20000	1.3	20.0
Benzo[g,h,i]perylene	Ave	1.022	1.021	0.0000	20000	20000	-0.2	20.0
o-Terphenyl	Ave	0.5939	0.6028	0.0000	20300	20000	1.5	20.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 21-FEB-2013 11:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.195	6.195	(1.000)	4805924	40.0000	
* 6 Acenaphthene-d10	164	7.863	7.863	(1.000)	2903448	40.0000	(H)
* 9 Phenanthrene-d10	188	9.127	9.127	(1.000)	4784360	40.0000	(H)
$ 13 o-Terphenyl	230	9.432	9.432	(1.033)	1442052	20.0000	20(H)
* 17 Chrysene-d12	240	11.477	11.477	(1.000)	4876621	40.0000	(H)
* 22 Perylene-d12	264	13.363	13.363	(1.000)	5208006	40.0000	(H)
2 Naphthalene	128	6.212	6.212	(1.003)	2497025	20.0000	20
3 2-Methylnaphthalene	142	6.912	6.912	(1.116)	1612041	20.0000	20
4 1-Methylnaphthalene	142	7.006	7.006	(1.131)	1536031	20.0000	20
5 Acenaphthylene	152	7.734	7.734	(0.984)	2534822	20.0000	20(H)
7 Acenaphthene	154	7.893	7.893	(1.004)	1517271	20.0000	20(H)
8 Fluorene	166	8.333	8.333	(1.060)	1803452	20.0000	20(H)
10 Phenanthrene	178	9.144	9.144	(1.002)	2598687	20.0000	19(H)
11 Anthracene	178	9.185	9.185	(1.006)	2686494	20.0000	20(H)
12 Carbazole	167	9.320	9.320	(1.021)	2375247	20.0000	20
14 Fluoranthene	202	10.125	10.125	(1.109)	2788067	20.0000	20(H)
15 Pyrene	202	10.313	10.313	(0.899)	2981070	20.0000	20(H)
16 Benzo(a)anthracene	228	11.447	11.447	(0.997)	2645607	20.0000	18(H)
18 Chrysene	228	11.500	11.500	(1.002)	2643903	20.0000	19(H)
19 Benzo(b)fluoranthene	252	12.793	12.793	(0.957)	2677570	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.840	12.840	(0.961)	2664365	20.0000	19(H)
21 Benzo(a)pyrene	252	13.263	13.263	(0.993)	2649110	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.990	14.990	(1.122)	2805307	20.0000	20(H)
24 Dibenzo(a,h)anthracene	278	15.026	15.026	(1.124)	2586333	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.460	15.460	(1.157)	2658053	20.0000	20(H)

QC Flag Legend

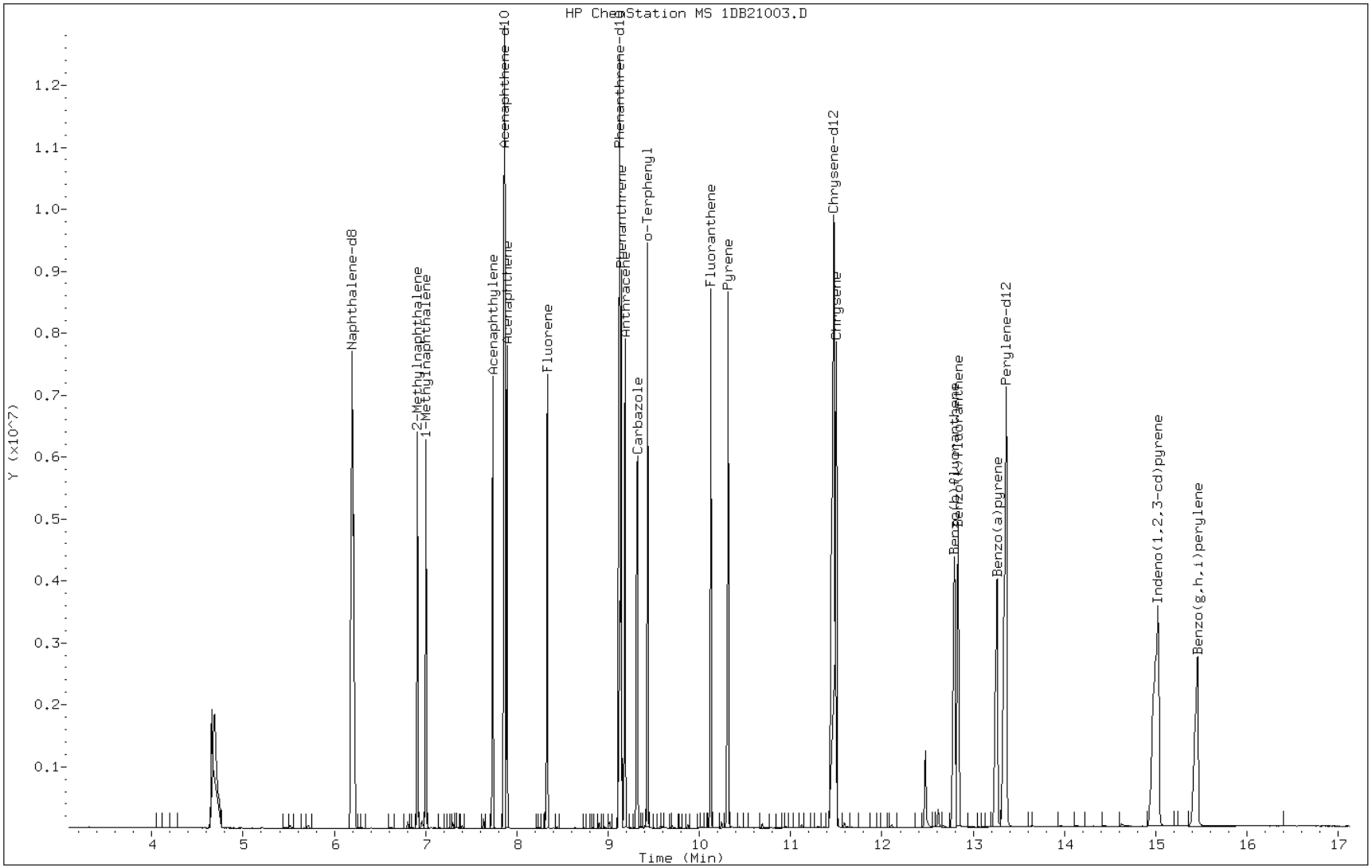
H - Operator selected an alternate compound hit.

Data File: 1DB21003.D

Date: 21-FEB-2013 11:57

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1489898 Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 10:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.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

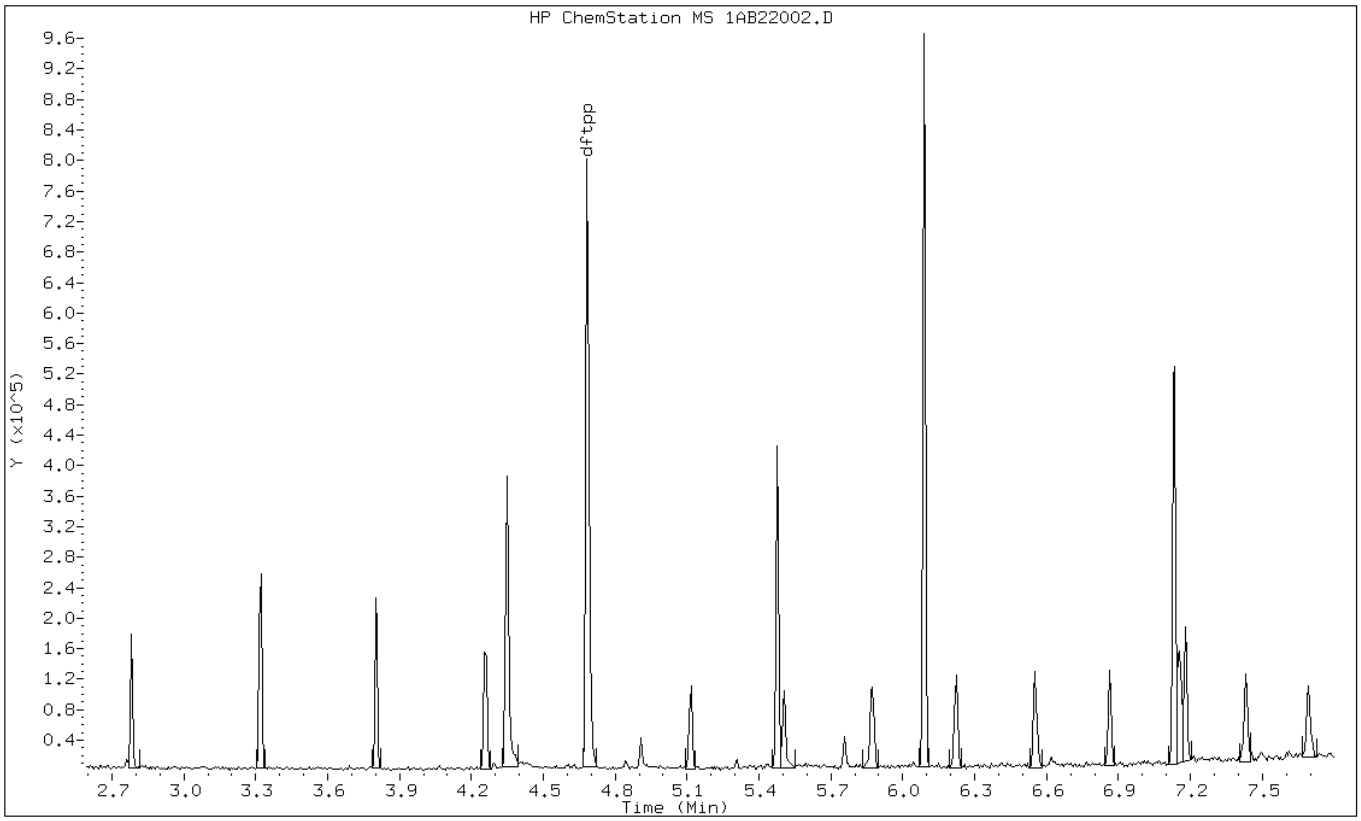
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.683	4.928	-0.245	198	76440			50.00- 0.00	100.00
4.683	4.928	-0.245	51	48552			10.00- 80.00	63.52
4.683	4.928	-0.245	68	695			0.00- 2.00	1.70
4.683	4.928	-0.245	69	40984			0.00- 0.00	53.62
4.683	4.928	-0.245	70	313			0.00- 2.00	0.76
4.683	4.928	-0.245	127	33880			10.00- 80.00	44.32
4.683	4.928	-0.245	197	0	0.0	0.0	0.00- 2.00	0.00
4.683	4.928	-0.245	442	51640			50.00- 0.00	67.56
4.683	4.928	-0.245	199	4343			5.00- 9.00	5.68
4.683	4.928	-0.245	275	19136			10.00- 60.00	25.03
4.683	4.928	-0.245	365	2453			1.00- 0.00	3.21
4.683	4.928	-0.245	441	6484			0.01- 99.99	79.28
4.683	4.928	-0.245	443	8179			15.00- 24.00	15.84

Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



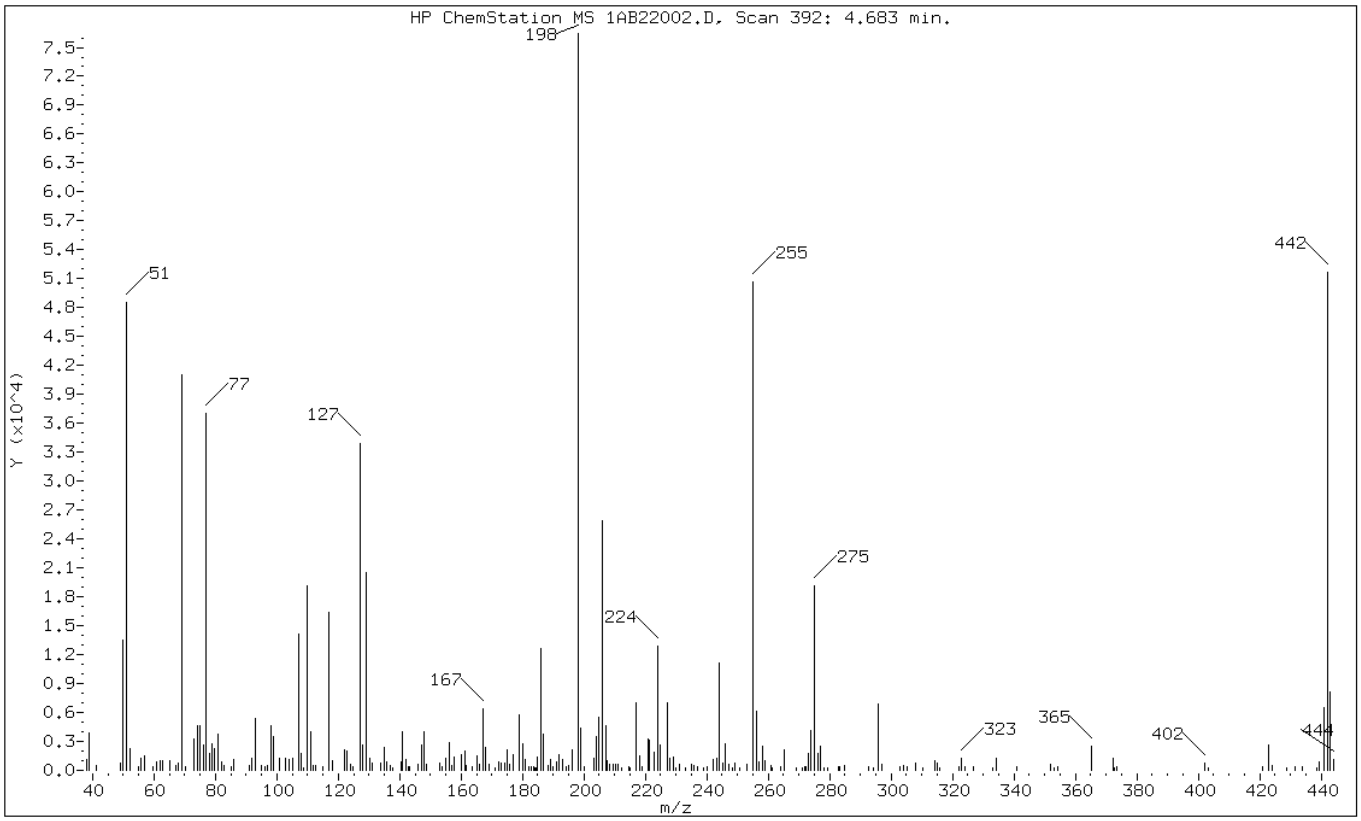
Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

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	63.52
68	Less than 2.00% of mass 69	0.91 (1.70)
69	Mass 69 relative abundance	53.62
70	Less than 2.00% of mass 69	0.41 (0.76)
127	10.00 - 80.00% of mass 198	44.32
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.56
199	5.00 - 9.00% of mass 198	5.68
275	10.00 - 60.00% of mass 198	25.03
365	Greater than 1.00% of mass 198	3.21
441	Present, but less than mass 443	8.48
443	15.00 - 24.00% of mass 442	10.70 (15.84)

Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22002.D
Spectrum: HP ChemStation MS 1AB22002.D, Scan 392: 4.683 min.
Location of Maximum: 198.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	1153	127.00	33880	194.20	434	269.20	256
39.00	3901	128.00	2620	195.20	479	271.10	267
41.10	559	129.00	20472	196.00	2162	271.80	321
49.00	742	130.10	1229	198.00	76440	272.30	357
50.00	13495	131.10	707	198.90	4343	273.00	1788
51.10	48552	134.00	733	200.10	313	274.00	4170
52.10	2289	135.00	2429	203.10	1213	275.00	19136
55.10	393	135.90	826	204.10	3455	276.10	1704
55.90	1274	137.00	527	205.00	5534	277.10	2520
57.00	1489	137.80	258	206.00	25944	278.30	253
59.70	351	140.30	859	207.10	4571	279.20	254
61.00	921	141.00	3943	207.70	997	282.80	333
62.00	978	142.10	1176	208.20	617	283.10	392
63.00	1049	142.90	410	209.40	639	285.00	539
65.00	989	143.10	410	210.20	629	292.80	317
67.00	554	146.00	603	211.00	591	294.40	260
67.80	695	147.10	2625	212.10	283	296.00	6928
69.00	40984	148.00	3950	214.50	412	297.10	604
70.10	313	148.80	676	215.20	311	303.00	324
73.10	3244	152.90	760	217.00	6968	304.10	484
74.00	4690	153.80	361	218.10	1521	305.10	409
75.00	4581	155.00	1227	218.80	315	308.10	725
76.10	2591	156.10	2898	221.00	3248	310.20	250
77.10	37072	157.00	445	221.30	3132	314.10	976
78.10	1749	157.90	1331	223.00	1909	315.20	810
78.90	2758	160.00	1611	224.10	12886	316.00	275
79.80	2228	161.10	2037	225.00	2626	322.00	374
81.00	3724	161.80	525	227.00	7049	323.00	1296
82.10	889	163.80	323	227.90	1242	324.20	381
83.00	487	165.00	1535	229.00	1425	326.80	328
85.10	368	166.10	619	230.10	312	333.00	311
86.00	1135	167.00	6330	231.20	601	334.10	1292
91.00	478	168.10	2348	232.90	260	340.90	433
92.00	1243	169.20	579	235.00	643	352.00	686
93.00	5320	171.10	295	236.00	555	353.20	307
95.00	452	172.10	909	236.80	320	354.20	418
96.30	341	173.00	778	239.10	304	365.10	2453
97.10	462	174.10	770	240.10	385	372.30	1226
98.00	4672	175.00	2158	242.00	1100	372.80	254
99.00	3560	175.80	583	243.10	1259	373.40	339

101.00	1215	177.00	1626	244.10	11075	402.00	723
103.00	1200	179.00	5738	245.20	781	403.30	273
104.10	1188	180.10	2793	246.10	2764	421.10	397
105.00	1287	180.90	1134	247.00	596	423.10	2660
107.00	14120	182.10	437	248.30	297	423.90	559
107.90	1762	182.90	346	249.30	777	428.80	261
108.80	304	183.70	418	250.90	273	431.40	365
110.00	19200	184.10	287	253.20	565	433.80	325
111.00	3941	184.30	289	255.10	50672	438.60	291
112.00	530	184.90	1381	256.10	6117	439.20	886
112.60	470	186.00	12633	257.10	937	441.00	6484
115.10	321	186.90	3785	258.10	2516	442.00	51640
117.00	16392	188.20	480	259.00	942	443.00	8179
118.10	945	189.00	1158	260.90	490	444.10	1146
122.00	2165	190.00	413	261.30	276		
122.90	1978	190.90	838	263.90	325		
123.90	580	192.00	1684	264.20	322		
124.80	382	193.10	1067	265.20	2067		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 25-FEB-2013 14:44
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.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

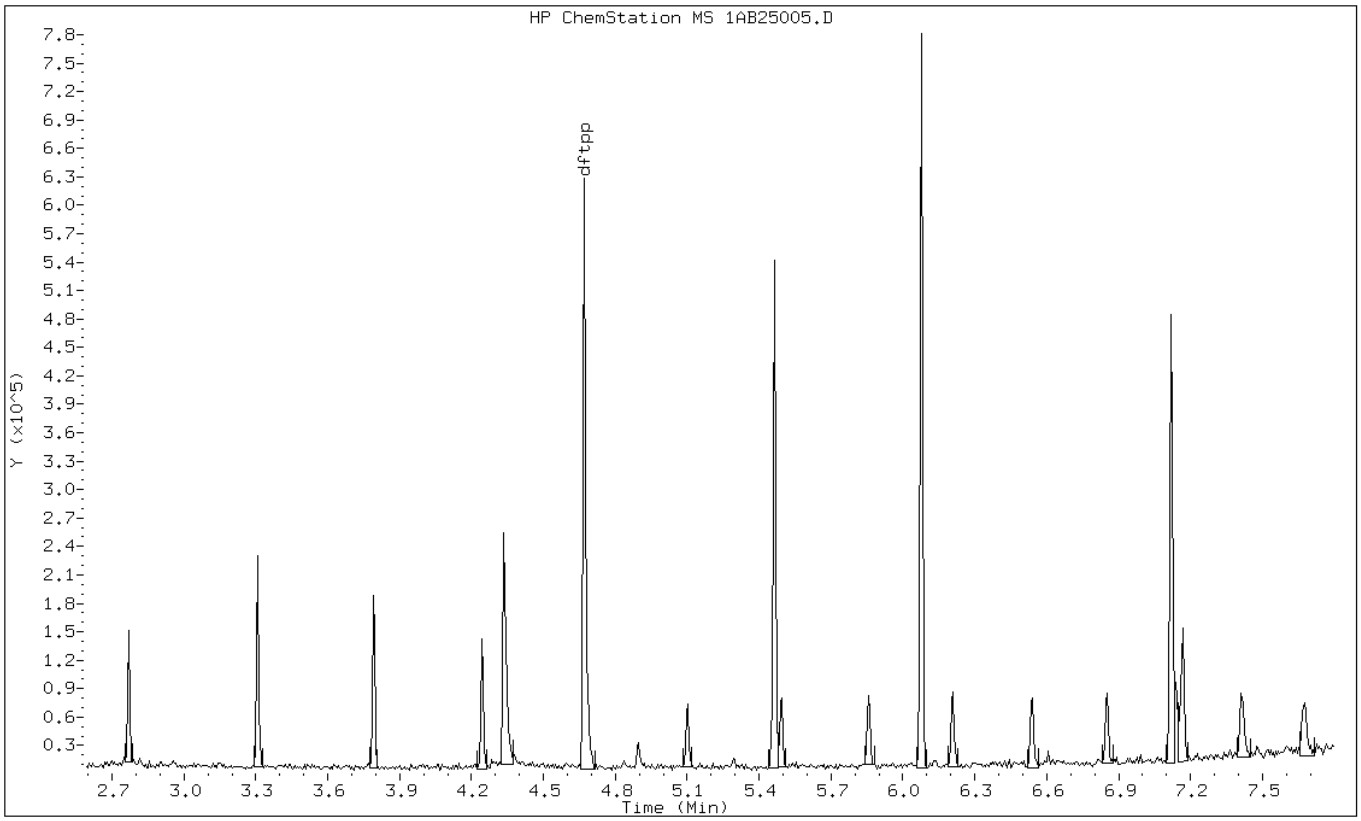
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.672	4.928	-0.256	198	57224			50.00- 0.00	100.00
4.672	4.928	-0.256	51	31544			10.00- 80.00	55.12
4.672	4.928	-0.256	68	0	0.0	0.0	0.00- 2.00	0.00
4.672	4.928	-0.256	69	29928			0.00- 0.00	52.30
4.672	4.928	-0.256	70	275			0.00- 2.00	0.92
4.672	4.928	-0.256	127	28272			10.00- 80.00	49.41
4.672	4.928	-0.256	197	0	0.0	0.0	0.00- 2.00	0.00
4.672	4.928	-0.256	442	39408			50.00- 0.00	68.87
4.672	4.928	-0.256	199	3837			5.00- 9.00	6.71
4.672	4.928	-0.256	275	15808			10.00- 60.00	27.62
4.672	4.928	-0.256	365	2316			1.00- 0.00	4.05
4.672	4.928	-0.256	441	5763			0.01- 99.99	72.55
4.672	4.928	-0.256	443	7944			15.00- 24.00	20.16

Data File: 1AB25005.D

Date: 25-FEB-2013 14:44

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



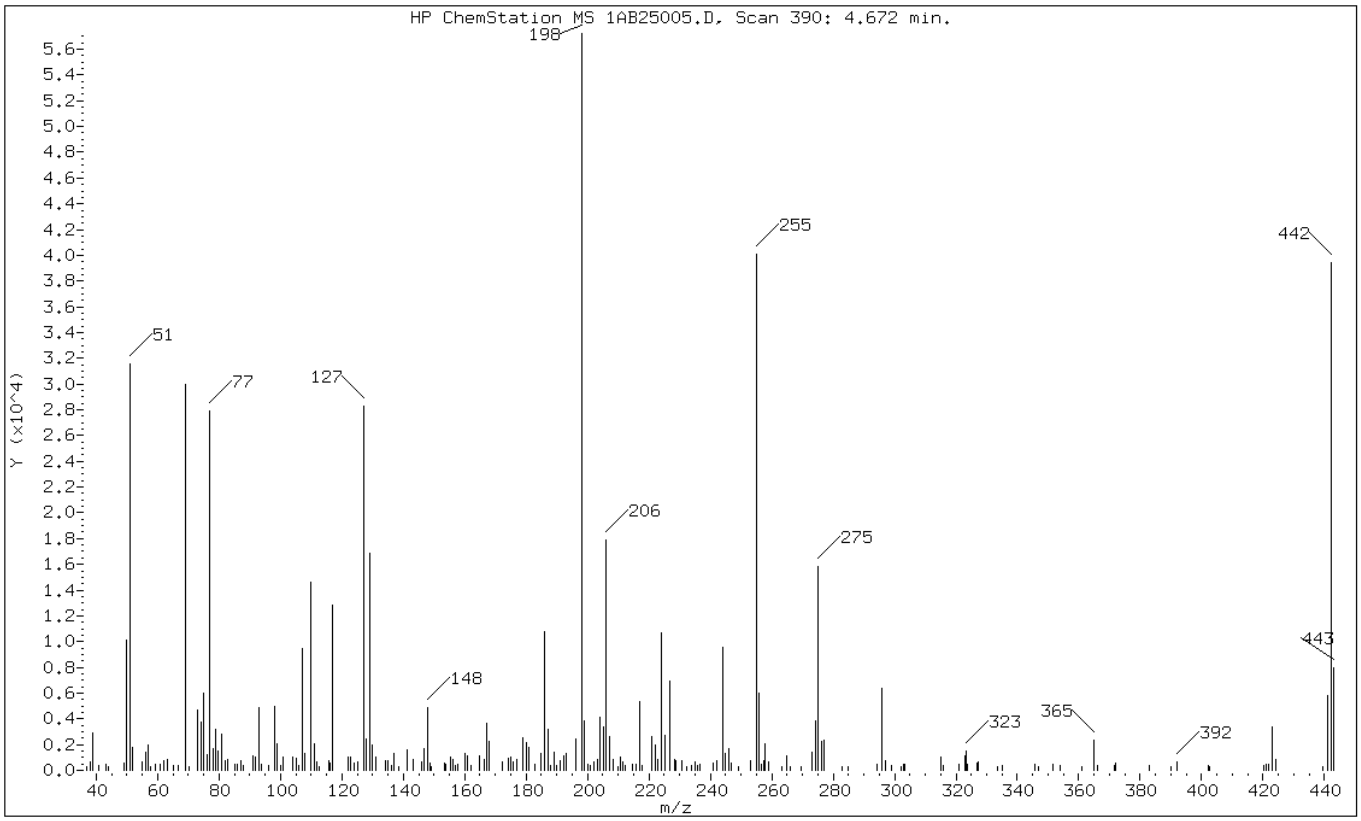
Data File: 1AB25005.D

Date: 25-FEB-2013 14:44

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	55.12
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.30
70	Less than 2.00% of mass 69	0.48 (0.92)
127	10.00 - 80.00% of mass 198	49.41
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	68.87
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	27.62
365	Greater than 1.00% of mass 198	4.05
441	Present, but less than mass 443	10.07
443	15.00 - 24.00% of mass 442	13.88 (20.16)

Data File: 1AB25005.D

Date: 25-FEB-2013 14:44

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25005.D
Spectrum: HP ChemStation MS 1AB25005.D, Scan 390: 4.672 min.
Location of Maximum: 198.00
Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	311	111.00	2038	189.00	1404	263.10	256
38.10	664	111.90	683	189.80	370	265.00	1083
39.00	2936	112.70	304	191.20	771	266.20	258
40.90	396	115.90	752	192.20	1098	269.70	254
43.00	438	116.20	571	193.20	1287	273.10	1375
43.90	318	117.00	12796	196.10	2419	274.10	3854
49.10	540	122.00	1020	198.00	57224	275.10	15808
50.00	10141	123.00	1077	199.00	3837	276.10	2270
51.00	31544	124.10	572	200.10	438	277.00	2354
52.00	1764	125.30	655	201.00	355	283.10	258
55.00	674	127.00	28272	202.10	642	285.00	277
56.00	1377	128.10	2411	203.20	884	294.10	422
56.90	1987	129.00	16840	204.00	4104	296.00	6396
57.80	287	130.00	1939	205.10	3340	296.90	713
59.10	487	130.90	1017	206.10	17912	299.10	333
61.00	492	134.10	786	207.10	2577	302.30	272
62.10	789	134.90	767	208.20	879	303.10	450
63.00	879	136.10	369	210.00	289	303.30	442
65.00	393	137.00	1322	210.90	1073	315.20	1007
66.90	367	138.50	284	211.50	665	315.90	338
69.00	29928	141.10	1633	212.30	372	321.00	454
70.10	275	143.20	864	214.80	452	322.90	1129
73.10	4691	146.10	656	216.00	472	323.20	1477
74.00	3736	146.90	1665	217.00	5319	323.80	464
75.00	6014	148.00	4906	217.90	375	326.90	581
76.10	1240	148.80	540	220.80	2658	327.20	648
77.00	27936	149.30	263	222.10	1988	333.70	320
78.00	1647	153.30	547	222.70	887	335.00	352
79.00	3152	153.90	468	224.10	10664	345.70	463
79.80	1492	155.20	1061	225.10	2761	346.80	254
81.00	2816	156.10	849	227.00	6900	351.70	472
82.00	735	157.10	377	228.20	801	354.10	345
83.00	856	157.90	476	228.80	746	361.00	319
85.00	431	160.00	1329	230.80	772	365.00	2316
85.80	342	160.90	1102	232.20	265	366.10	380
86.10	438	161.90	351	233.80	356	371.40	342
87.00	723	165.00	1120	235.10	688	372.10	538
88.00	417	166.20	879	235.90	352	382.90	347
91.20	1107	167.00	3637	236.60	424	390.10	309
92.00	1019	168.00	2220	241.00	549	391.80	664

93.00	4892	172.20	672	242.00	740	402.10	378
93.80	431	174.10	951	244.10	9522	402.70	262
96.20	375	175.10	1054	245.00	1354	420.20	379
98.00	4977	175.90	672	246.00	1650	421.00	512
99.00	2033	177.00	869	247.00	593	421.90	507
100.20	339	179.00	2572	249.00	276	423.00	3343
101.00	1056	180.10	2145	253.00	752	424.10	864
104.00	1058	181.00	1734	255.00	40064	439.30	262
105.00	891	182.80	470	256.00	5965	441.10	5763
105.90	407	184.90	1276	256.80	493	442.10	39408
107.00	9453	186.10	10731	257.30	757	443.00	7944
107.90	1291	187.10	3193	257.90	2069		
110.00	14597	188.10	387	259.00	643		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713_pahIC.b\1DA07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JAN-2013 09:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713_pahIC.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 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

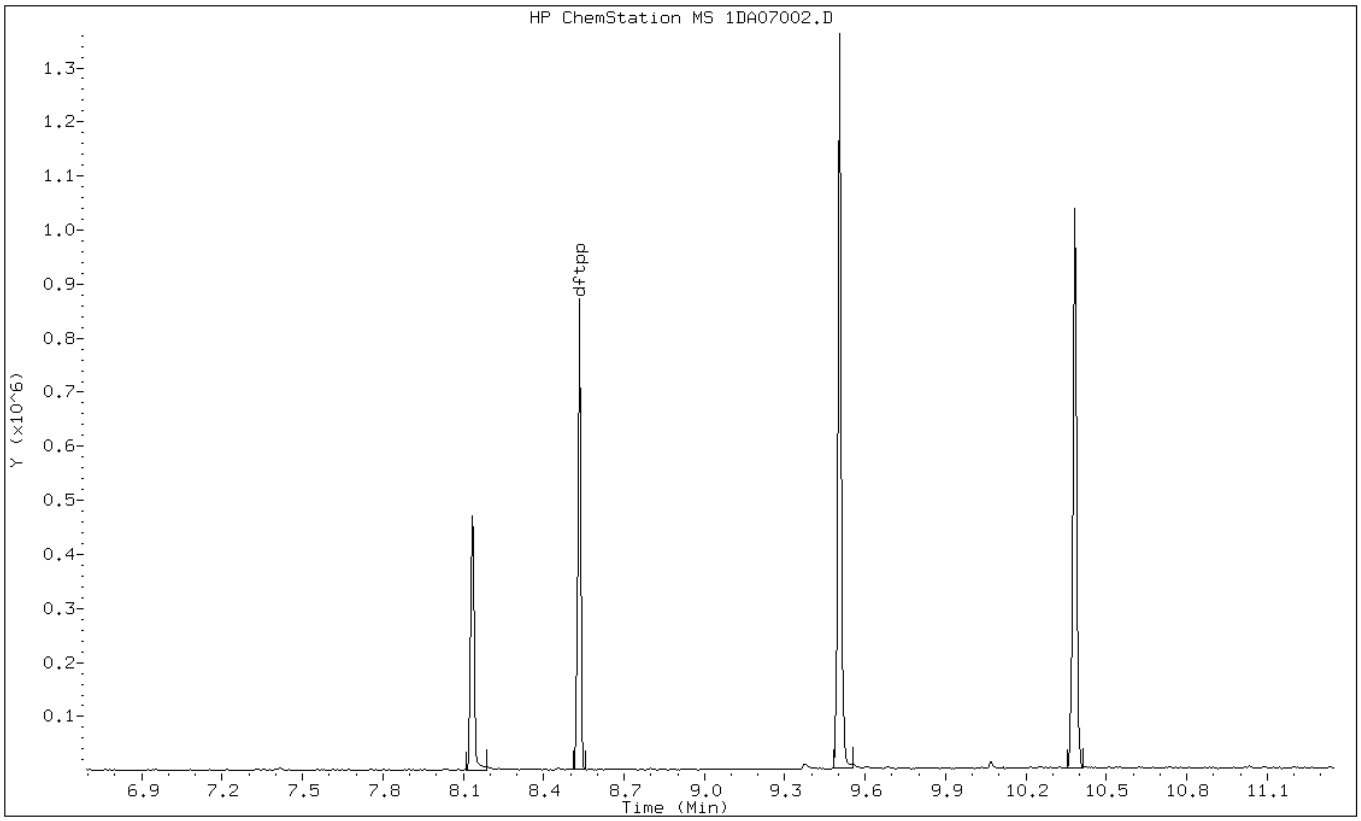
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.532	8.532	0.000	198	76044			50.00- 0.00	100.00
8.532	8.532	0.000	51	33648			10.00- 80.00	44.25
8.532	8.532	0.000	68	0	0.0	0.0	0.00- 2.00	0.00
8.532	8.532	0.000	69	35552			0.00- 0.00	46.75
8.532	8.532	0.000	70	0	0.0	0.0	0.00- 2.00	0.00
8.532	8.532	0.000	127	38568			10.00- 80.00	50.72
8.532	8.532	0.000	197	0	0.0	0.0	0.00- 2.00	0.00
8.532	8.532	0.000	442	51432			50.00- 0.00	67.63
8.532	8.532	0.000	199	4918			5.00- 9.00	6.47
8.532	8.532	0.000	275	19106			10.00- 60.00	25.12
8.532	8.532	0.000	365	2101			1.00- 0.00	2.76
8.532	8.532	0.000	441	1602			0.01- 99.99	15.46
8.532	8.532	0.000	443	10363			15.00- 24.00	20.15

Data File: 1DA07002.D

Date: 07-JAN-2013 09:59

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



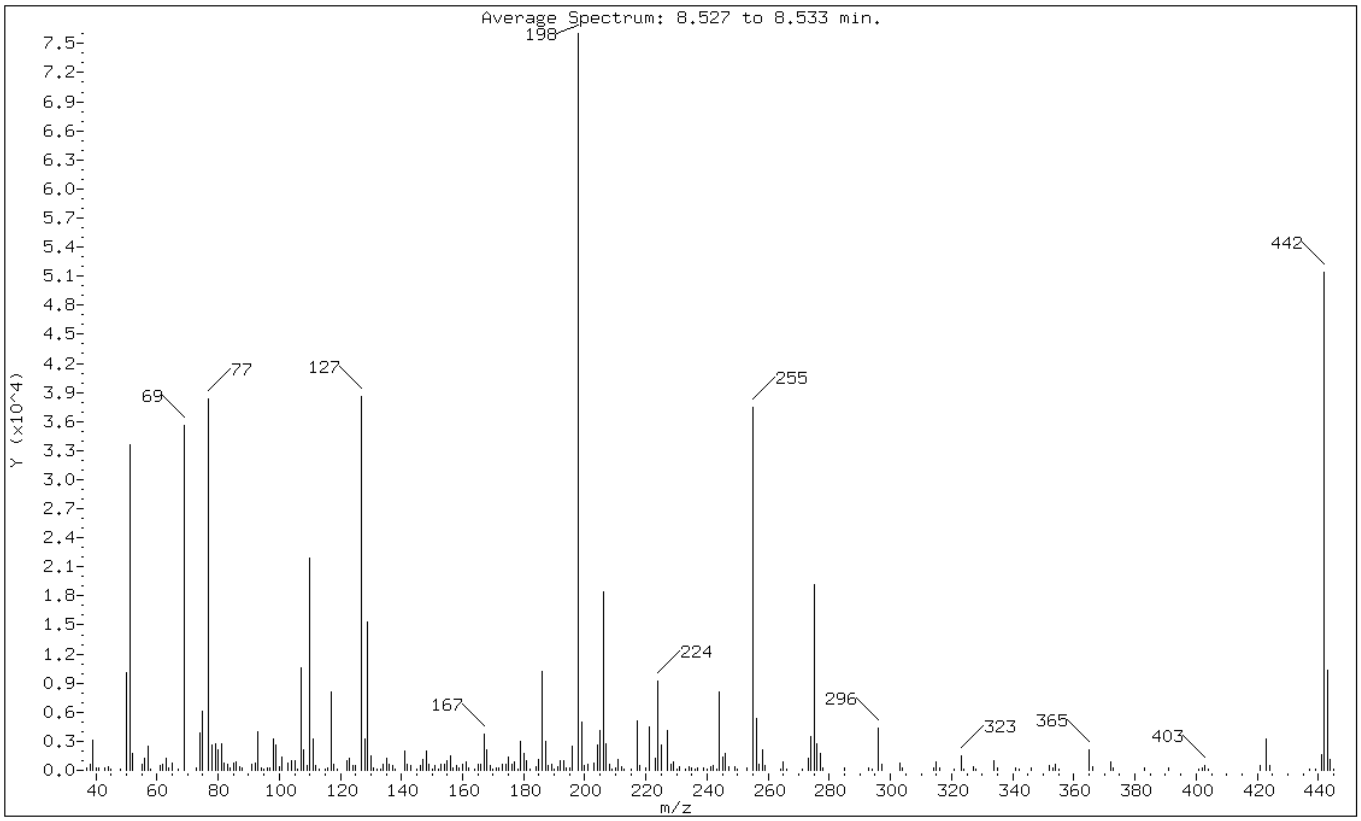
Data File: 1DA07002.D

Date: 07-JAN-2013 09:59

Client ID: DFTPP Instrument: BSMSD.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	44.25
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.75
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.72
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.63
199	5.00 - 9.00% of mass 198	6.47
275	10.00 - 60.00% of mass 198	25.12
365	Greater than 1.00% of mass 198	2.76
441	Present, but less than mass 443	2.11
443	15.00 - 24.00% of mass 442	13.63 (20.15)

Data File: 1DA07002.D

Date: 07-JAN-2013 09:59

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D010713_pahIC.b\1DA07002.D
Spectrum: Average Spectrum: 8.527 to 8.533 min.
Location of Maximum: 198.00
Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	193	115.00	96	182.00	134	256.00	5388
38.00	667	116.00	267	184.00	364	257.00	640
39.00	3097	117.00	8050	185.00	1115	258.00	2094
40.00	299	118.00	620	186.00	10239	259.00	466
41.00	270	119.00	184	187.00	3019	264.00	96
43.00	202	122.00	1017	188.00	462	265.00	872
44.00	334	123.00	1287	189.00	671	266.00	122
45.00	82	124.00	547	190.00	171	271.00	92
48.00	84	125.00	499	191.00	375	273.00	1305
50.00	10020	127.00	38568	192.00	938	274.00	3471
51.00	33648	128.00	3286	193.00	1032	275.00	19104
52.00	1696	129.00	15349	194.00	255	276.00	2787
55.00	593	130.00	1488	195.00	240	277.00	1779
56.00	1215	131.00	251	196.00	2499	278.00	194
57.00	2437	132.00	162	198.00	76040	285.00	251
58.00	99	133.00	113	199.00	4918	293.00	299
61.00	443	134.00	565	200.00	538	294.00	108
62.00	600	135.00	1226	201.00	563	296.00	4384
63.00	1245	136.00	640	203.00	699	297.00	605
64.00	235	137.00	508	204.00	2621	303.00	709
65.00	751	138.00	159	205.00	4100	304.00	189
67.00	82	141.00	2038	206.00	18360	314.00	255
69.00	35552	142.00	650	207.00	2738	315.00	853
73.00	234	143.00	515	208.00	676	316.00	209
74.00	3800	145.00	107	209.00	112	321.00	87
75.00	6072	146.00	446	210.00	236	323.00	1527
77.00	38280	147.00	1143	211.00	1119	324.00	166
78.00	2579	148.00	2041	212.00	325	327.00	382
79.00	2676	149.00	596	213.00	84	328.00	108
80.00	2055	150.00	154	215.00	133	334.00	995
81.00	2799	151.00	525	217.00	5131	335.00	255
82.00	702	152.00	95	218.00	541	341.00	187
83.00	647	153.00	643	220.00	237	342.00	94
84.00	290	154.00	562	221.00	4495	346.00	223
85.00	764	155.00	1000	223.00	1254	352.00	508
86.00	924	156.00	1517	224.00	9148	353.00	211
87.00	368	157.00	298	225.00	2568	354.00	578
88.00	205	158.00	442	227.00	4080	355.00	107
91.00	673	159.00	277	228.00	593	365.00	2101
92.00	770	160.00	659	229.00	894	366.00	316

93.00	4016	161.00	871	230.00	81	372.00	870
94.00	278	162.00	249	231.00	424	373.00	252
95.00	96	164.00	116	233.00	79	383.00	288
96.00	226	165.00	674	234.00	369	391.00	200
97.00	212	166.00	580	235.00	302	401.00	118
98.00	3186	167.00	3751	236.00	123	402.00	290
99.00	2575	168.00	2103	237.00	231	403.00	514
100.00	346	169.00	514	239.00	213	404.00	154
101.00	1391	170.00	106	240.00	105	421.00	541
103.00	718	171.00	241	241.00	360	423.00	3193
104.00	949	172.00	311	242.00	508	424.00	520
105.00	1006	173.00	659	243.00	141	437.00	81
106.00	181	174.00	566	244.00	8082	439.00	114
107.00	10630	175.00	1332	245.00	1344	441.00	1602
108.00	2064	176.00	581	246.00	1740	442.00	51432
109.00	444	177.00	901	247.00	428	443.00	10363
110.00	21880	178.00	90	249.00	351	444.00	1152
111.00	3177	179.00	2954	250.00	80	445.00	80
112.00	466	180.00	1697	253.00	229		
113.00	77	181.00	938	255.00	37424		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-FEB-2013 11:40
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 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		
8.488	8.532	-0.044	198	95888			50.00- 0.00	100.00
8.488	8.532	-0.044	51	46192			10.00- 80.00	48.17
8.488	8.532	-0.044	68	0	0.0	0.0	0.00- 2.00	0.00
8.488	8.532	-0.044	69	47688			0.00- 0.00	49.73
8.488	8.532	-0.044	70	315			0.00- 2.00	0.66
8.488	8.532	-0.044	127	50616			10.00- 80.00	52.79
8.488	8.532	-0.044	197	0	0.0	0.0	0.00- 2.00	0.00
8.488	8.532	-0.044	442	58584			50.00- 0.00	61.10
8.488	8.532	-0.044	199	6310			5.00- 9.00	6.58
8.488	8.532	-0.044	275	23920			10.00- 60.00	24.95
8.488	8.532	-0.044	365	2384			1.00- 0.00	2.49
8.488	8.532	-0.044	441	9256			0.01- 99.99	82.71
8.488	8.532	-0.044	443	11191			15.00- 24.00	19.10

Data File: 1DB21002.D

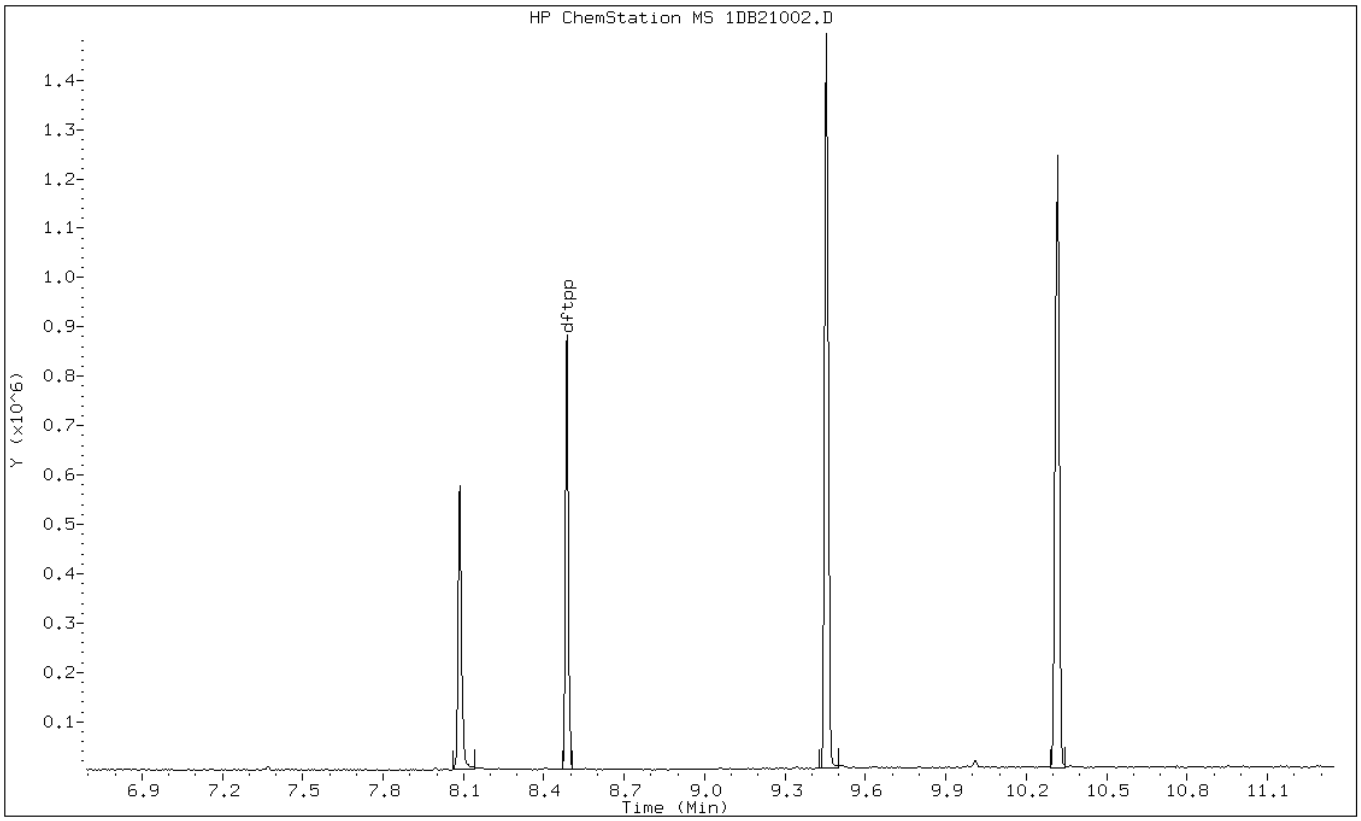
Date: 21-FEB-2013 11:40

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



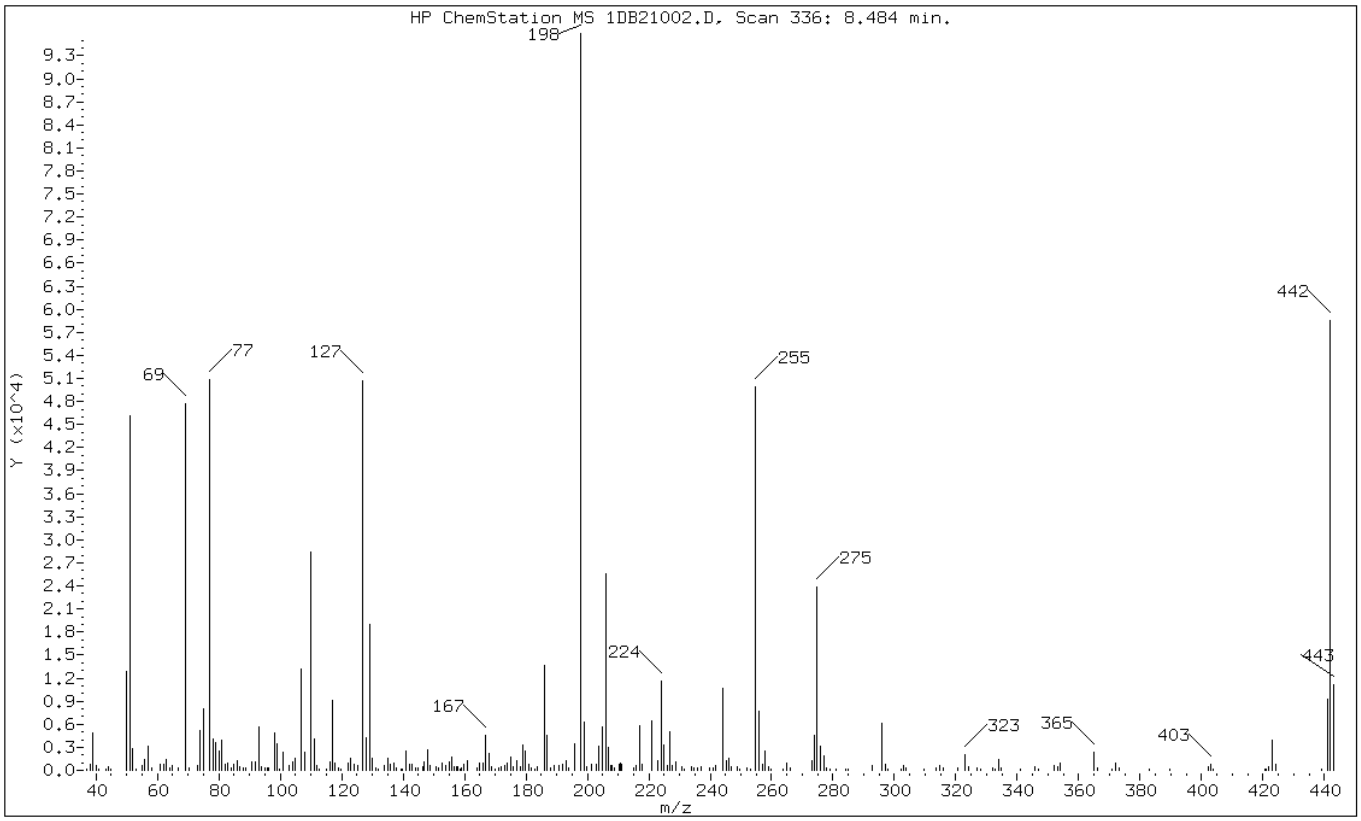
Data File: 1DB21002.D

Date: 21-FEB-2013 11:40

Client ID: DFTPP Instrument: BSMSD.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	48.17
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.73
70	Less than 2.00% of mass 69	0.33 (0.66)
127	10.00 - 80.00% of mass 198	52.79
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	61.10
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 60.00% of mass 198	24.95
365	Greater than 1.00% of mass 198	2.49
441	Present, but less than mass 443	9.65
443	15.00 - 24.00% of mass 442	11.67 (19.10)

Data File: 1DB21002.D

Date: 21-FEB-2013 11:40

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21002.D
Spectrum: HP ChemStation MS 1DB21002.D, Scan 336: 8.484 min.
Location of Maximum: 197.90
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	201	116.90	9139	182.90	185	264.90	962
38.10	803	117.90	877	183.90	456	265.90	321
39.00	4823	118.90	272	186.00	13707	273.00	1239
40.00	556	119.80	205	186.90	4502	273.90	4577
41.10	207	122.00	913	188.10	304	274.90	23920
43.10	180	123.00	1572	189.10	701	276.00	3208
44.00	427	124.00	760	190.90	605	276.90	1821
44.90	174	125.10	697	191.90	762	277.90	375
50.10	12856	127.00	50616	193.20	1251	279.00	188
51.00	46192	127.90	4309	194.00	304	281.00	218
52.00	2875	129.00	18960	196.00	3391	284.00	155
53.00	165	129.90	1585	197.90	95888	284.90	178
55.00	626	131.00	257	198.90	6310	292.90	592
56.00	1455	132.10	151	199.90	517	295.90	6099
57.00	3179	134.00	563	201.40	745	297.10	764
58.00	297	134.90	1647	202.90	733	297.90	214
61.00	714	136.00	790	203.90	3095	302.10	169
62.00	729	137.10	893	204.90	5619	303.00	706
63.00	1392	137.80	321	206.00	25552	303.90	391
64.00	253	139.20	215	207.00	3056	309.80	158
65.00	621	139.80	216	207.80	602	313.70	240
67.00	298	140.90	2563	208.10	593	314.90	648
69.00	47688	142.00	740	208.90	304	316.00	282
70.20	315	142.90	766	210.20	709	320.80	275
73.10	673	144.00	265	210.80	885	322.90	2098
74.00	5216	145.00	333	211.20	760	324.00	429
75.00	7999	146.30	419	214.90	378	326.90	365
77.00	50784	147.00	1111	215.90	649	328.10	170
78.00	4094	148.00	2710	216.90	5750	332.10	254
79.00	3665	148.90	669	217.90	767	332.60	216
80.00	2577	150.90	418	220.90	6411	334.00	1455
81.00	3990	151.50	367	222.90	1287	334.90	387
82.00	798	152.90	953	224.00	11667	341.00	204
82.90	968	153.90	600	225.00	3370	345.90	462
83.90	270	154.90	1140	225.90	635	347.00	152
84.90	771	156.00	1804	226.90	4999	352.00	669
86.00	1186	156.80	525	227.80	665	353.00	525
86.90	424	157.40	404	229.00	1154	353.90	909
88.10	350	157.90	534	230.90	450	364.90	2384
88.90	252	158.50	170	231.70	160	366.10	367

90.90	1080	159.10	264	233.90	407	370.80	186
91.90	1056	159.90	816	234.80	352	372.00	998
93.00	5683	161.00	1266	235.90	281	373.00	391
93.80	484	163.90	266	236.90	420	382.80	151
95.00	258	165.00	977	239.90	243	389.80	234
95.90	249	165.90	910	240.90	377	402.10	448
96.10	241	167.00	4533	241.90	656	402.90	834
98.00	4879	167.90	2225	244.00	10634	403.90	191
99.00	3465	168.90	524	245.10	1232	420.70	209
99.90	228	170.00	228	246.00	1631	421.00	223
101.00	2380	171.10	347	246.90	425	421.20	233
102.90	642	172.00	464	248.90	514	421.90	411
103.90	1066	173.00	619	249.70	210	423.00	3986
105.00	1530	173.90	942	252.10	236	424.00	783
106.90	13221	174.90	1730	253.00	212	439.00	225
108.00	2411	175.90	522	254.90	49928	441.00	9256
109.90	28480	176.90	1199	256.00	7704	442.00	58584
111.00	4134	178.10	436	257.00	798	443.00	11191
111.80	556	178.90	3328	258.00	2571		
112.70	185	179.90	2512	259.10	503		
114.90	227	181.00	748	259.80	180		
116.10	1028	181.90	299	263.60	211		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: | Lab Sample ID: MB 660-134677/1-A

Matrix: Solid | Lab File ID: 1DB21023.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.21(g) | Date Analyzed: 02/21/2013 19:28

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.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.3	U	8.3	4.1
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.8
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	4.3
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.9	U	7.9	3.8
129-00-0	Pyrene	20	U	20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21023.D
Lab Smp Id: MB 660-134677/1-A
Inj Date : 21-FEB-2013 19:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-134677/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 23 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	15.210	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

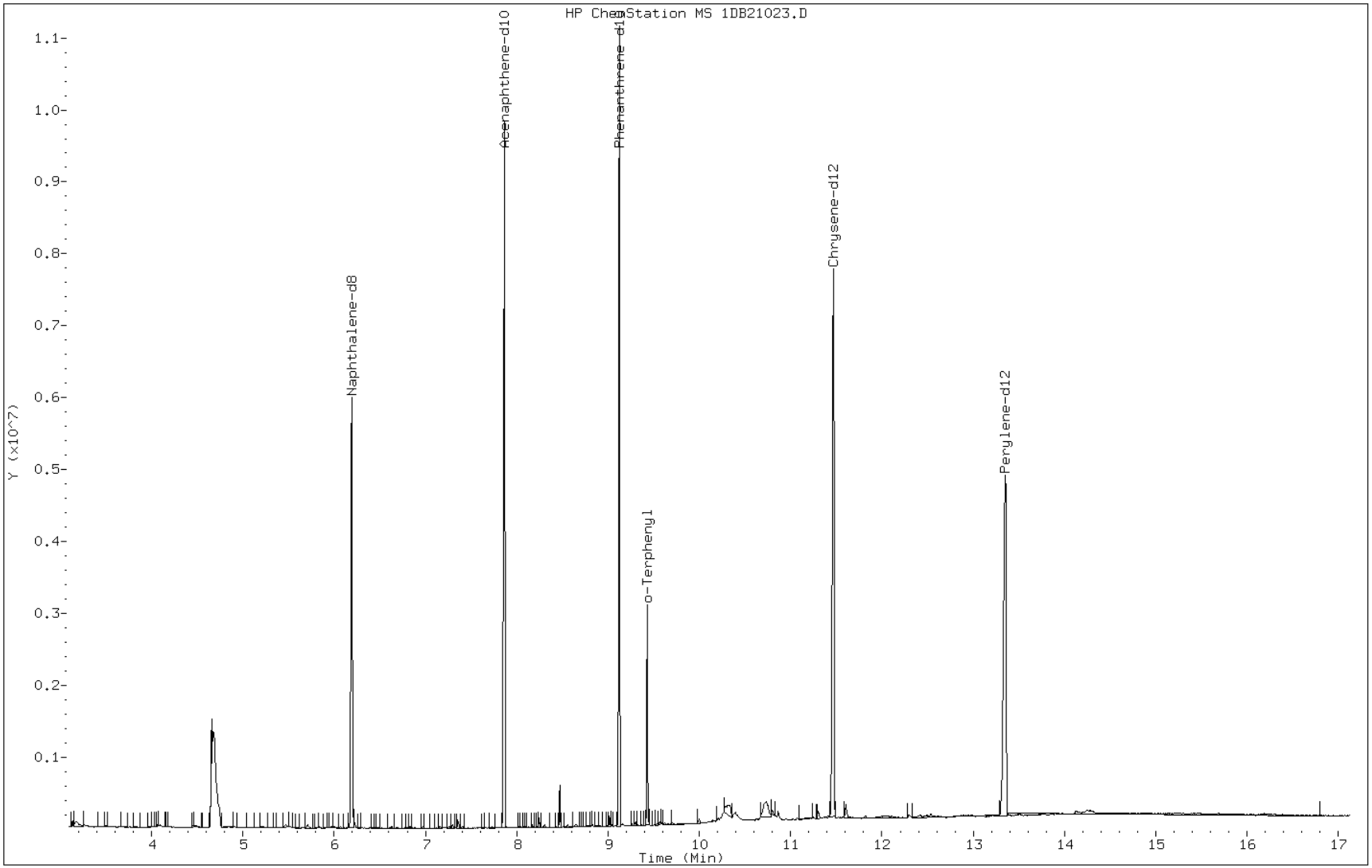
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.193	6.195	(1.000)	3444102	40.0000	
* 6 Acenaphthene-d10	164	7.861	7.863	(1.000)	2086349	40.0000	
* 9 Phenanthrene-d10	188	9.124	9.127	(1.000)	3394356	40.0000	
$ 13 o-Terphenyl	230	9.430	9.432	(1.033)	452281	8.97412	590
* 17 Chrysene-d12	240	11.469	11.477	(1.000)	3308053	40.0000	
* 22 Perylene-d12	264	13.349	13.363	(1.000)	3181769	40.0000	

Data File: 1DB21023.D

Date: 21-FEB-2013 19:28

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-134677/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87496-4
SDG No.: 68087496-4
Client Sample ID:
Lab Sample ID: MB 660-134699/1-A
Matrix: Solid
Lab File ID: 1AB22025.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/21/2013 09:55
Sample wt/vol: 15.33(g)
Date Analyzed: 02/22/2013 16:39
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.: 134771
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
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	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

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\1A022213_IC.b\1AB22025.D
Lab Smp Id: mb 660-134699/1-a
Inj Date : 22-FEB-2013 16:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-134699/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 25 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	15.330	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

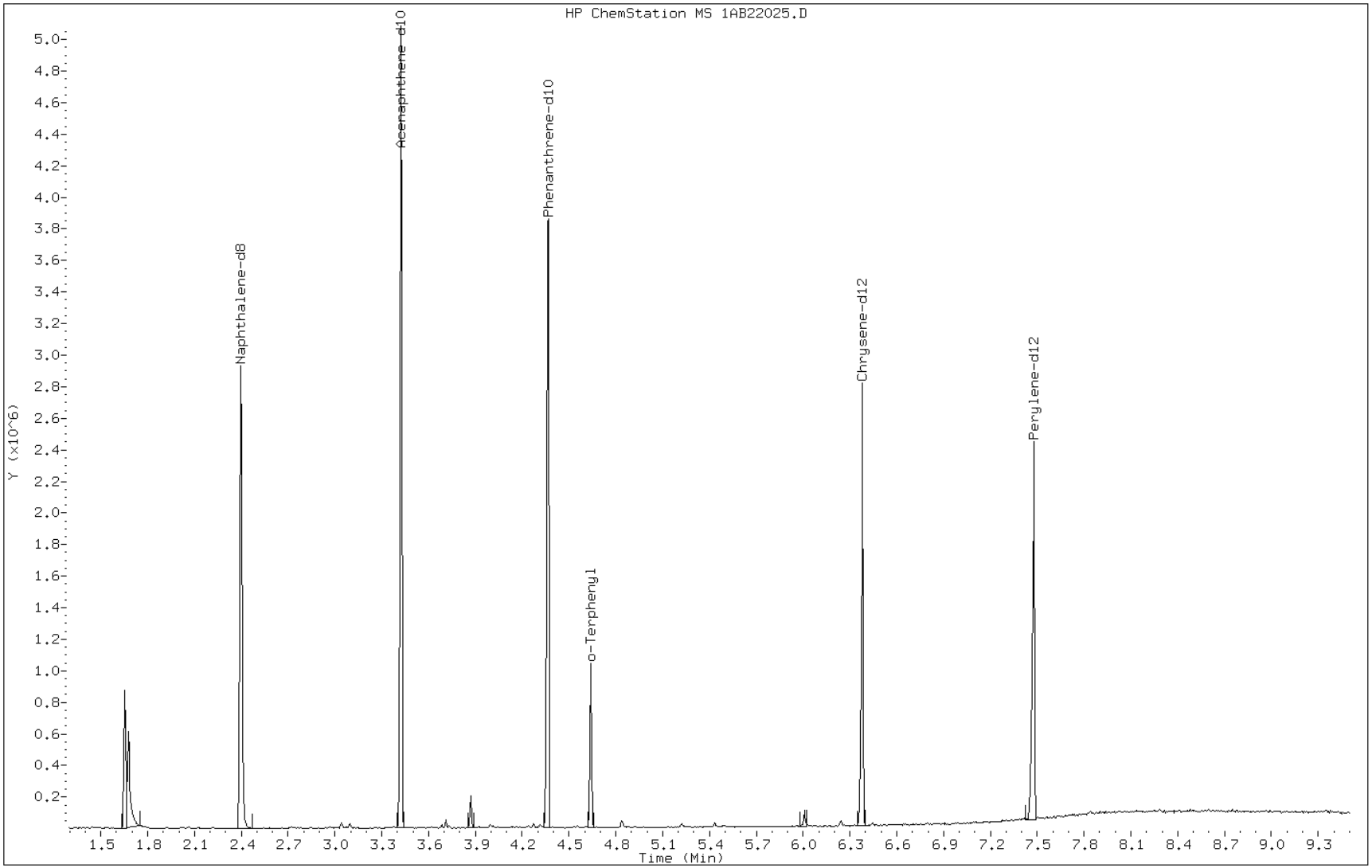
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.396	2.397	(1.000)	1054254	40.0000	
* 6 Acenaphthene-d10	164	3.421	3.417	(1.000)	839973	40.0000	
* 10 Phenanthrene-d10	188	4.367	4.352	(1.000)	1221542	40.0000	
$ 14 o-Terphenyl	230	4.640	4.635	(1.062)	129343	7.27680	474.6768
* 18 Chrysene-d12	240	6.381	6.366	(1.000)	764305	40.0000	
* 23 Perylene-d12	264	7.482	7.456	(1.000)	915808	40.0000	

Data File: 1AB22025.D

Date: 22-FEB-2013 16:39

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-134699/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87496-4
SDG No.: 68087496-4
Client Sample ID:
Lab Sample ID: LCS 660-134677/2-A
Matrix: Solid
Lab File ID: 1DB21024.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/20/2013 15:19
Sample wt/vol: 15.24(g)
Date Analyzed: 02/21/2013 19:51
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.: 134722
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	563		98	20
208-96-8	Acenaphthylene	582		39	4.9
120-12-7	Anthracene	544		8.3	4.1
56-55-3	Benzo[a]anthracene	578		7.9	3.8
50-32-8	Benzo[a]pyrene	537		10	5.1
205-99-2	Benzo[b]fluoranthene	654		12	6.0
191-24-2	Benzo[g,h,i]perylene	430		20	4.3
207-08-9	Benzo[k]fluoranthene	629		7.9	3.5
218-01-9	Chrysene	569		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	542		20	4.0
206-44-0	Fluoranthene	618		20	3.9
86-73-7	Fluorene	588		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	465		20	7.0
90-12-0	1-Methylnaphthalene	611		39	4.3
91-57-6	2-Methylnaphthalene	596		39	7.0
91-20-3	Naphthalene	563		39	4.3
85-01-8	Phenanthrene	567		7.9	3.8
129-00-0	Pyrene	584		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21024.D
Lab Smp Id: LCS 660-134677/2-A
Inj Date : 21-FEB-2013 19:51
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-134677/2-A
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 24 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	15.240	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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.190	6.195	(1.000)	3424111	40.0000	
* 6 Acenaphthene-d10	164	7.864	7.863	(1.000)	2074866	40.0000	
* 9 Phenanthrene-d10	188	9.122	9.127	(1.000)	3364524	40.0000	
$ 13 o-Terphenyl	230	9.433	9.432	(1.034)	500253	10.0140	660
* 17 Chrysene-d12	240	11.472	11.477	(1.000)	3316322	40.0000	
* 22 Perylene-d12	264	13.352	13.363	(1.000)	3169855	40.0000	
2 Naphthalene	128	6.213	6.212	(1.004)	777064	8.58119	560
3 2-Methylnaphthalene	142	6.912	6.912	(1.117)	522413	9.08326	600
4 1-Methylnaphthalene	142	7.006	7.006	(1.132)	503354	9.30442	610
5 Acenaphthylene	152	7.735	7.734	(0.984)	794897	8.87337	580
7 Acenaphthene	154	7.888	7.893	(1.003)	468728	8.57953	560
8 Fluorene	166	8.328	8.333	(1.059)	581232	8.95389	590
10 Phenanthrene	178	9.139	9.144	(1.002)	829958	8.63445	570
11 Anthracene	178	9.180	9.185	(1.006)	780632	8.28898	540

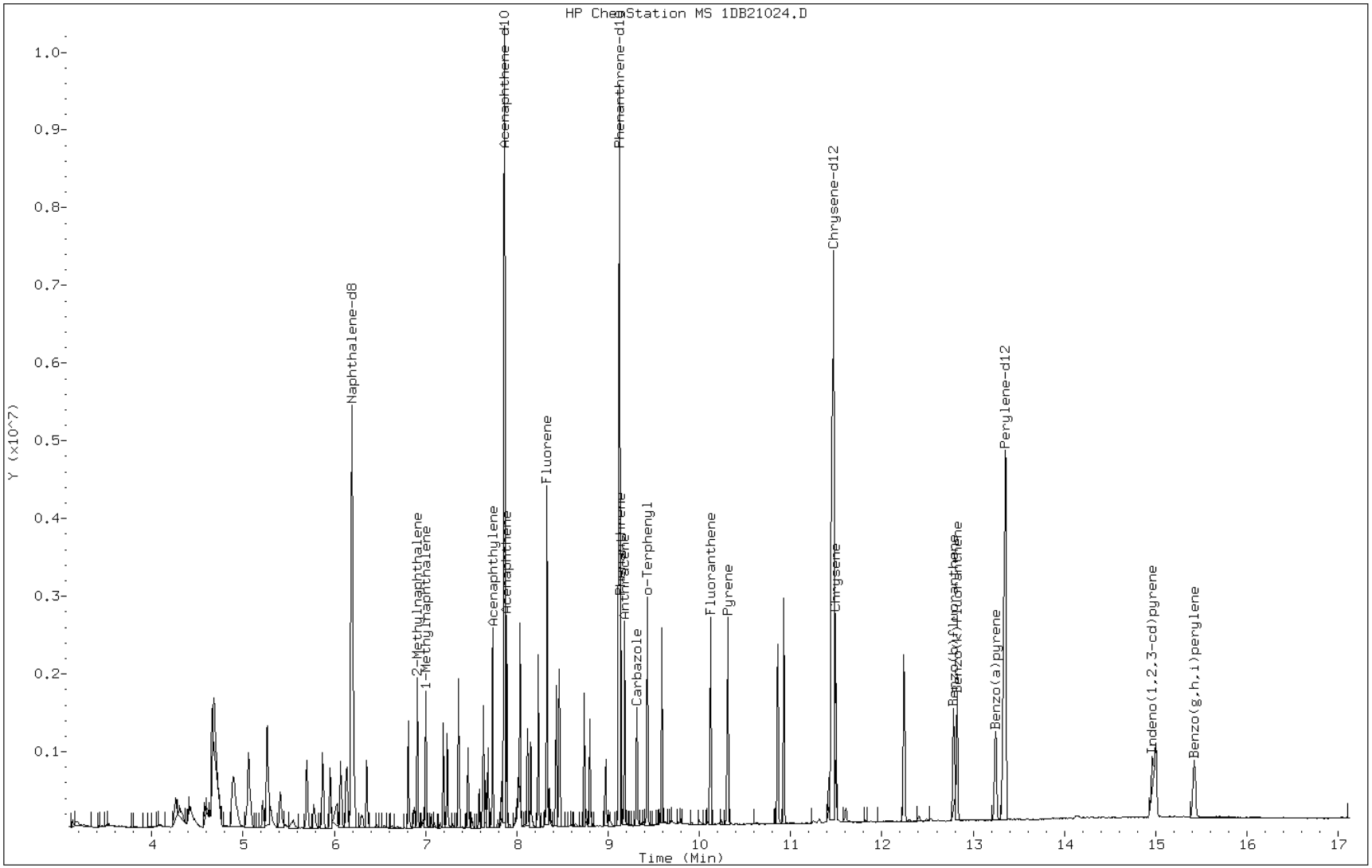
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.315	9.320	(1.021)	487405	5.84334	380
14 Fluoranthene	202	10.120	10.125	(1.109)	907420	9.42439	620
15 Pyrene	202	10.308	10.313	(0.899)	921705	8.90150	580
16 Benzo(a)anthracene	228	11.448	11.447	(0.998)	854574	8.80956	580
18 Chrysene	228	11.495	11.500	(1.002)	810455	8.67053	570
19 Benzo(b)fluoranthene	252	12.788	12.793	(0.958)	802231	9.96972	650
20 Benzo(k)fluoranthene	252	12.823	12.840	(0.960)	815400	9.59345	630
21 Benzo(a)pyrene	252	13.246	13.263	(0.992)	649490	8.18657	540
23 Indeno(1,2,3-cd)pyrene	276	14.968	14.990	(1.121)	600479	7.09110	460
24 Dibenzo(a,h)anthracene	278	15.003	15.026	(1.124)	641495	8.25552	540
25 Benzo(g,h,i)perylene	276	15.426	15.460	(1.155)	531479	6.55984	430

Data File: 1DB21024.D

Date: 21-FEB-2013 19:51

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-134677/2-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87496-4
SDG No.: 68087496-4
Client Sample ID:
Lab Sample ID: LCS 660-134699/2-A
Matrix: Solid
Lab File ID: 1AB22026.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/21/2013 09:55
Sample wt/vol: 15.33(g)
Date Analyzed: 02/22/2013 16:55
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.: 134771
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	448		98	20
208-96-8	Acenaphthylene	498		39	4.9
120-12-7	Anthracene	503		8.2	4.1
56-55-3	Benzo[a]anthracene	538		7.8	3.8
50-32-8	Benzo[a]pyrene	363		10	5.1
205-99-2	Benzo[b]fluoranthene	364		12	6.0
191-24-2	Benzo[g,h,i]perylene	490		20	4.3
207-08-9	Benzo[k]fluoranthene	421		7.8	3.5
218-01-9	Chrysene	449		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	504		20	4.0
206-44-0	Fluoranthene	531		20	3.9
86-73-7	Fluorene	491		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	484		20	6.9
90-12-0	1-Methylnaphthalene	580		39	4.3
91-57-6	2-Methylnaphthalene	561		39	6.9
91-20-3	Naphthalene	497		39	4.3
85-01-8	Phenanthrene	496		7.8	3.8
129-00-0	Pyrene	623		20	3.6

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\1A022213_IC.b\1AB22026.D
Lab Smp Id: lcs 660-134699/2-a
Inj Date : 22-FEB-2013 16:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-134699/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 26 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	15.330	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	2.399	2.397	(1.000)	1080818	40.0000	
* 6 Acenaphthene-d10	164	3.425	3.417	(1.000)	807413	40.0000	
* 10 Phenanthrene-d10	188	4.365	4.352	(1.000)	1222937	40.0000	
$ 14 o-Terphenyl	230	4.643	4.635	(1.064)	144382	8.11362	529.2641
* 18 Chrysene-d12	240	6.384	6.366	(1.000)	893924	40.0000	
* 23 Perylene-d12	264	7.480	7.456	(1.000)	1000053	40.0000	
2 Naphthalene	128	2.410	2.402	(1.004)	198313	7.61463	496.7145
3 2-Methylnaphthalene	141	2.811	2.808	(1.171)	115650	8.60190	561.1153
4 1-Methylnaphthalene	142	2.869	2.861	(1.196)	133231	8.89893	580.4914
5 Acenaphthylene	152	3.339	3.332	(0.975)	230381	7.64176	498.4842
7 Acenaphthene	154	3.441	3.433	(1.005)	119624	6.86705	447.9484
9 Fluorene	166	3.751	3.743	(1.095)	165352	7.52069	490.5865
11 Phenanthrene	178	4.376	4.368	(1.002)	231157	7.60433	496.0421
12 Anthracene	178	4.413	4.400	(1.011)	227713	7.71199	503.0652

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.568	4.555	(1.047)	185649	7.12244	464.6077
15 Fluoranthene	202	5.236	5.228	(1.199)	247280	8.13587	530.7158
16 Pyrene	202	5.407	5.394	(0.847)	250429	9.55105	623.0302
17 Benzo(a)anthracene	228	6.374	6.355	(0.998)	219991	8.24187	537.6301
19 Chrysene	228	6.400	6.387	(1.002)	164226	6.87945	448.7570
20 Benzo(b)fluoranthene	252	7.196	7.178	(0.962)	141474	5.58055	364.0277
21 Benzo(k)fluoranthene	252	7.212	7.199	(0.964)	164555	6.45189	420.8668
22 Benzo(a)pyrene	252	7.426	7.408	(0.993)	129302	5.56943	363.3024
24 Indeno(1,2,3-cd)pyrene	276	8.206	8.177	(1.097)	147786	7.41986	484.0088(M)
25 Dibenzo(a,h)anthracene	278	8.217	8.193	(1.099)	160381	7.72704	504.0472
26 Benzo(g,h,i)perylene	276	8.414	8.385	(1.125)	159219	7.51578	490.2662

QC Flag Legend

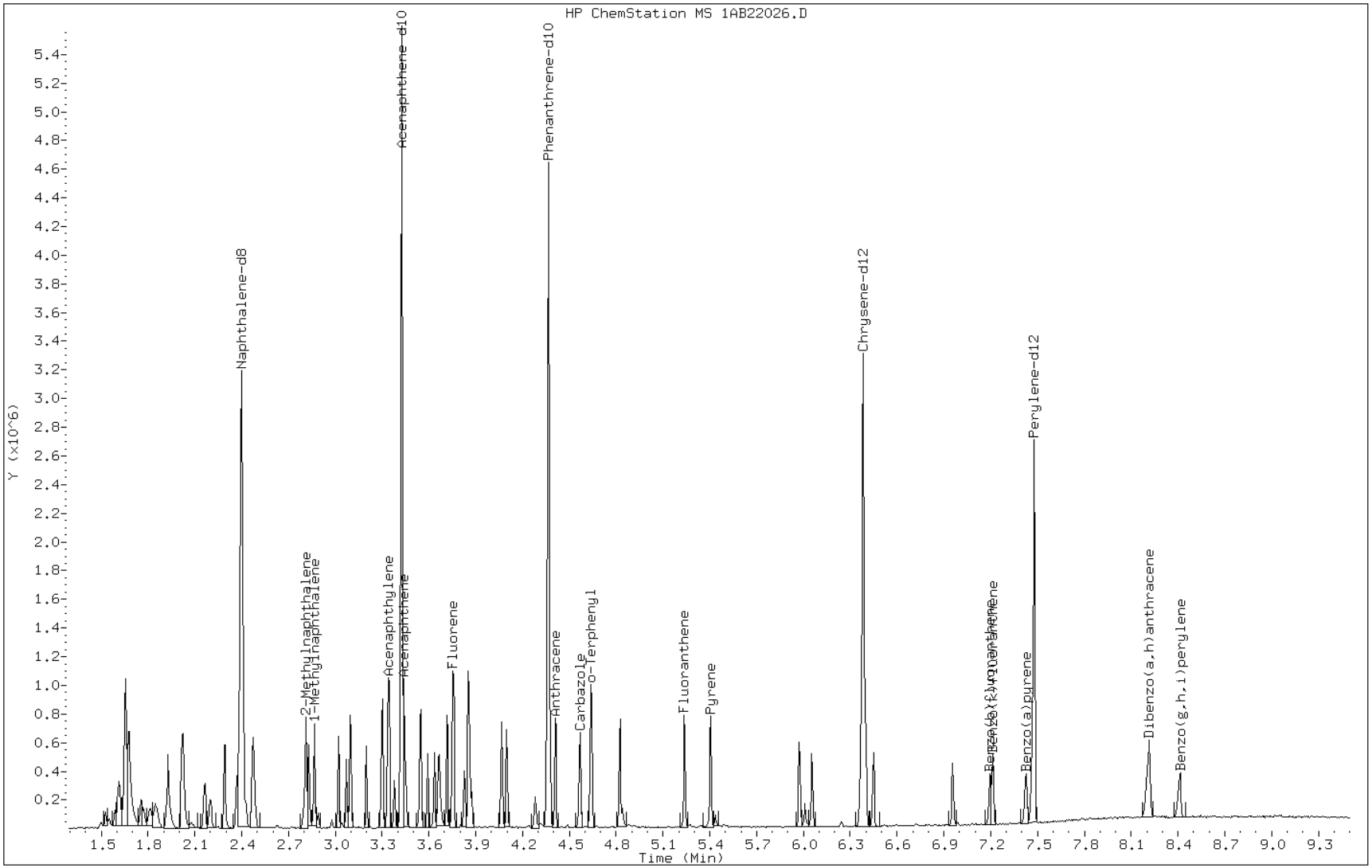
M - Compound response manually integrated.

Data File: 1AB22026.D

Date: 22-FEB-2013 16:55

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-134699/2-a Operator: SCC



Manual Integration Report

Data File: 1AB22026.D
Inj. Date and Time: 22-FEB-2013 16:55
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

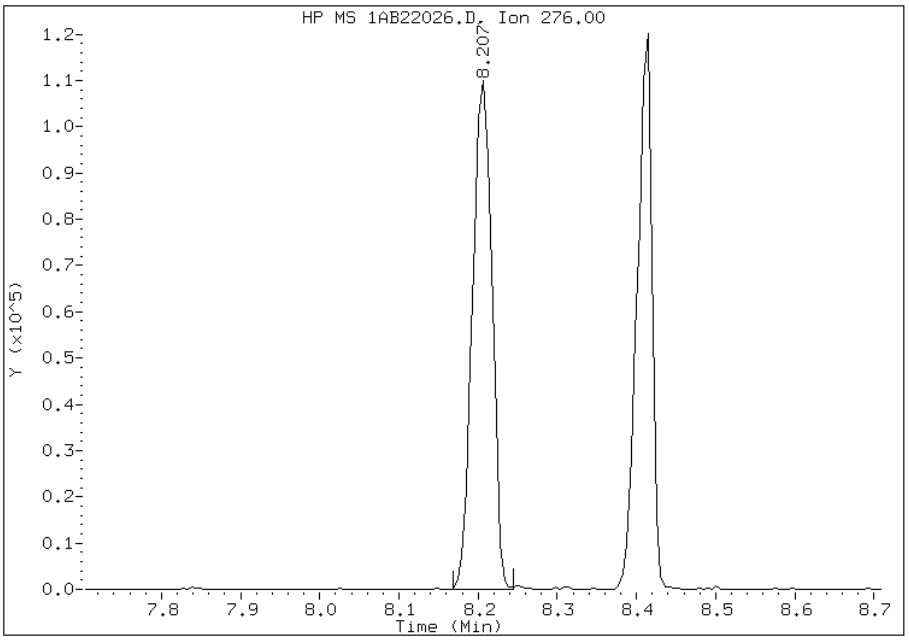
Processing Integration Results

RT: 8.21

Response: 186141

Amount: 9

Conc: 610



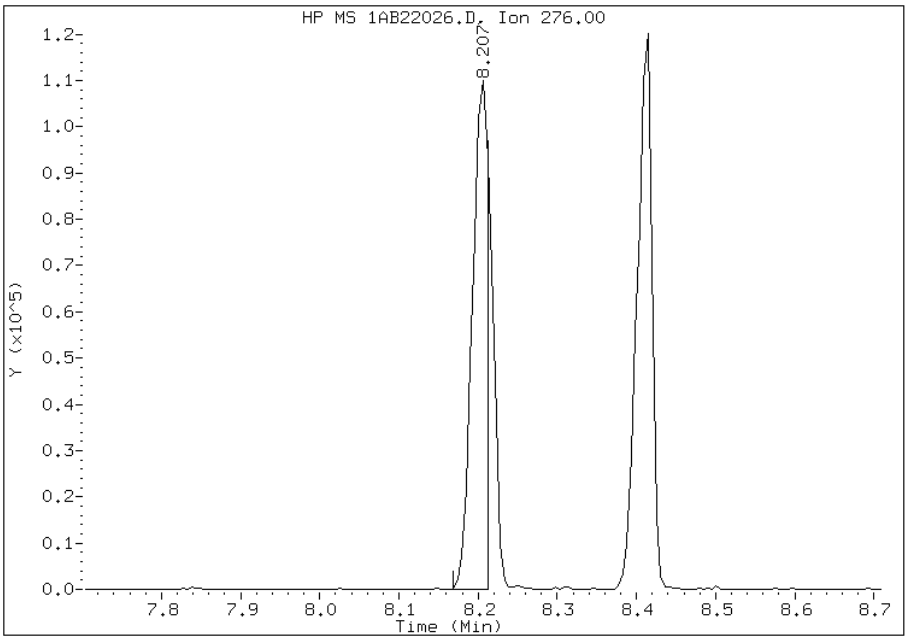
Manual Integration Results

RT: 8.21

Response: 147786

Amount: 7

Conc: 484



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 13:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87496-4
SDG No.: 68087496-4
Client Sample ID:
Lab Sample ID: 680-87496-A-48-B MS
Matrix: Solid
Lab File ID: 1DB21029.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/20/2013 15:19
Sample wt/vol: 15.05(g)
Date Analyzed: 02/21/2013 21:44
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 6.2
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134722
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	659		430	85
208-96-8	Acenaphthylene	715		170	21
120-12-7	Anthracene	751		36	18
56-55-3	Benzo[a]anthracene	1050		34	17
50-32-8	Benzo[a]pyrene	1030		44	22
205-99-2	Benzo[b]fluoranthene	1410		52	26
191-24-2	Benzo[g,h,i]perylene	572		85	19
207-08-9	Benzo[k]fluoranthene	1060		34	15
218-01-9	Chrysene	1130		38	19
53-70-3	Dibenz(a,h)anthracene	577		85	17
206-44-0	Fluoranthene	1400		85	17
86-73-7	Fluorene	706		85	17
193-39-5	Indeno[1,2,3-cd]pyrene	634		85	30
90-12-0	1-Methylnaphthalene	739		170	19
91-57-6	2-Methylnaphthalene	750		170	30
91-20-3	Naphthalene	675		170	19
85-01-8	Phenanthrene	977		34	17
129-00-0	Pyrene	1260		85	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	108		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21029.D
Lab Smp Id: 680-87496-A-48-B MS
Inj Date : 21-FEB-2013 21:44
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-48-B MS
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 29 QC Sample: MS
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	15.050	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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.192	6.195	(1.000)	3353616	40.0000	
* 6 Acenaphthene-d10	164	7.867	7.863	(1.000)	2027560	40.0000	
* 9 Phenanthrene-d10	188	9.124	9.127	(1.000)	3330952	40.0000	
$ 13 o-Terphenyl	230	9.430	9.432	(1.033)	133689	2.70314	720
* 17 Chrysene-d12	240	11.474	11.477	(1.000)	3258268	40.0000	
* 22 Perylene-d12	264	13.360	13.363	(1.000)	2838548	40.0000	
2 Naphthalene	128	6.216	6.212	(1.004)	211079	2.37996	630
3 2-Methylnaphthalene	142	6.909	6.912	(1.116)	148992	2.64500	700
4 1-Methylnaphthalene	142	7.003	7.006	(1.131)	138097	2.60636	690
5 Acenaphthylene	152	7.732	7.734	(0.983)	220747	2.52167	670
7 Acenaphthene	154	7.890	7.893	(1.003)	124117	2.32483	620
8 Fluorene	166	8.331	8.333	(1.059)	158121	2.49269	660
10 Phenanthrene	178	9.142	9.144	(1.002)	327984	3.44657	920(R)
11 Anthracene	178	9.177	9.185	(1.006)	247094	2.65016	700

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.318	9.320	(1.021)	197214	2.38816	630
14 Fluoranthene	202	10.123	10.125	(1.109)	471391	4.94517	1300(R)
15 Pyrene	202	10.311	10.313	(0.899)	453349	4.45629	1200(R)
16 Benzo(a)anthracene	228	11.451	11.447	(0.998)	352545	3.69904	980(R)
18 Chrysene	228	11.492	11.500	(1.002)	366158	3.98708	1000(R)
19 Benzo(b)fluoranthene	252	12.790	12.793	(0.957)	359295	4.98629	1300(R)
20 Benzo(k)fluoranthene	252	12.826	12.840	(0.960)	283822	3.72901	990(R)
21 Benzo(a)pyrene	252	13.249	13.263	(0.992)	258802	3.64284	970(R)
23 Indeno(1,2,3-cd)pyrene	276	14.970	14.990	(1.120)	169649	2.23723	590(M)
24 Dibenzo(a,h)anthracene	278	15.006	15.026	(1.123)	141689	2.03625	540
25 Benzo(g,h,i)perylene	276	15.434	15.460	(1.155)	146469	2.01881	540

QC Flag Legend

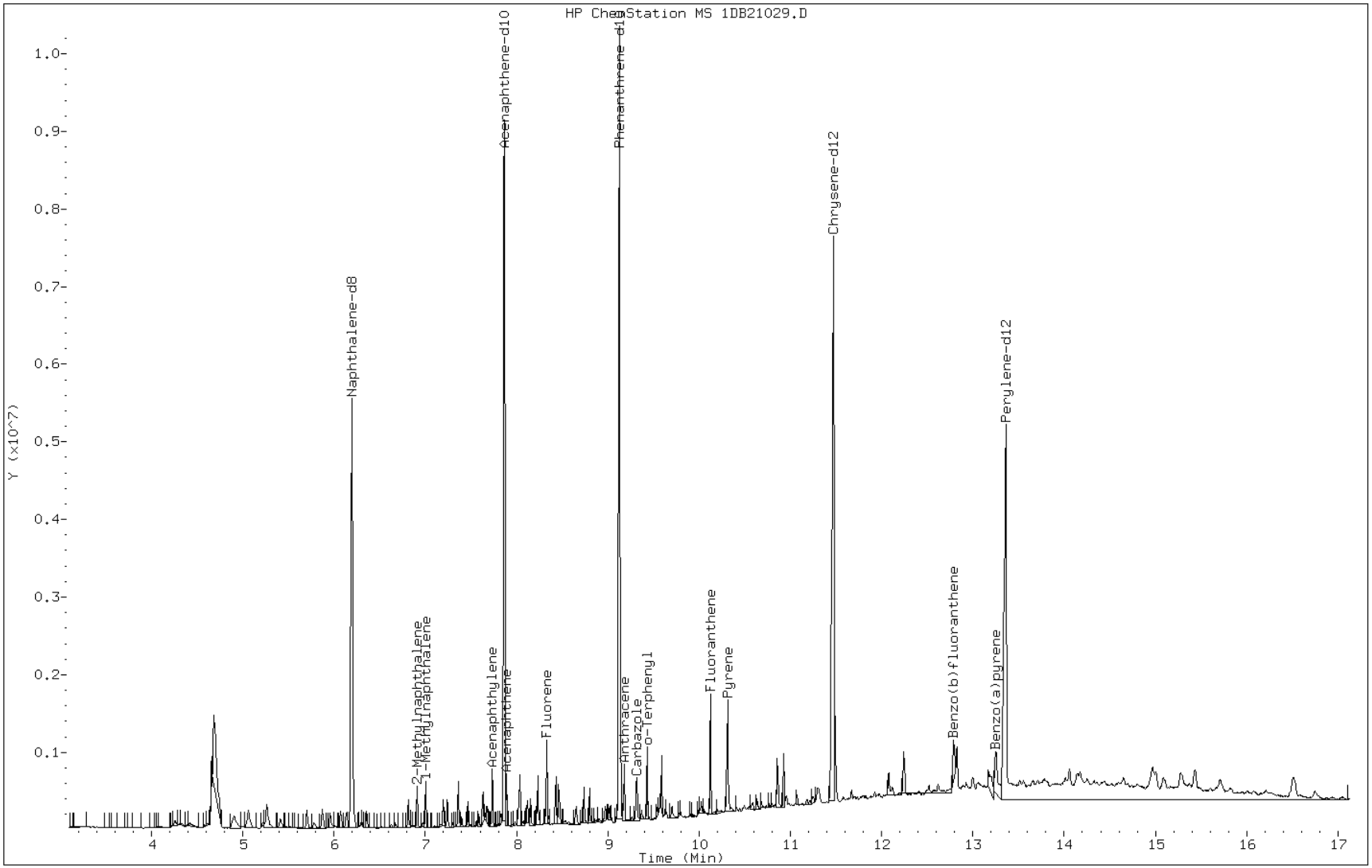
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DB21029.D

Date: 21-FEB-2013 21:44

Client ID: Instrument: BSMSD.i

Sample Info: 680-87496-A-48-B MS Operator: SCC



Manual Integration Report

Data File: 1DB21029.D
Inj. Date and Time: 21-FEB-2013 21:44
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

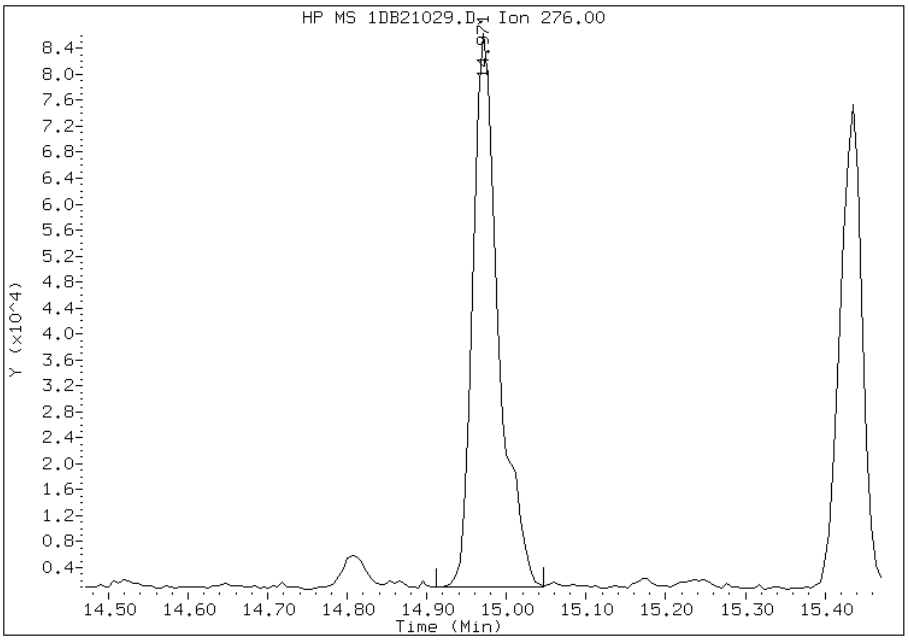
Processing Integration Results

RT: 14.97

Response: 189813

Amount: 3

Conc: 665



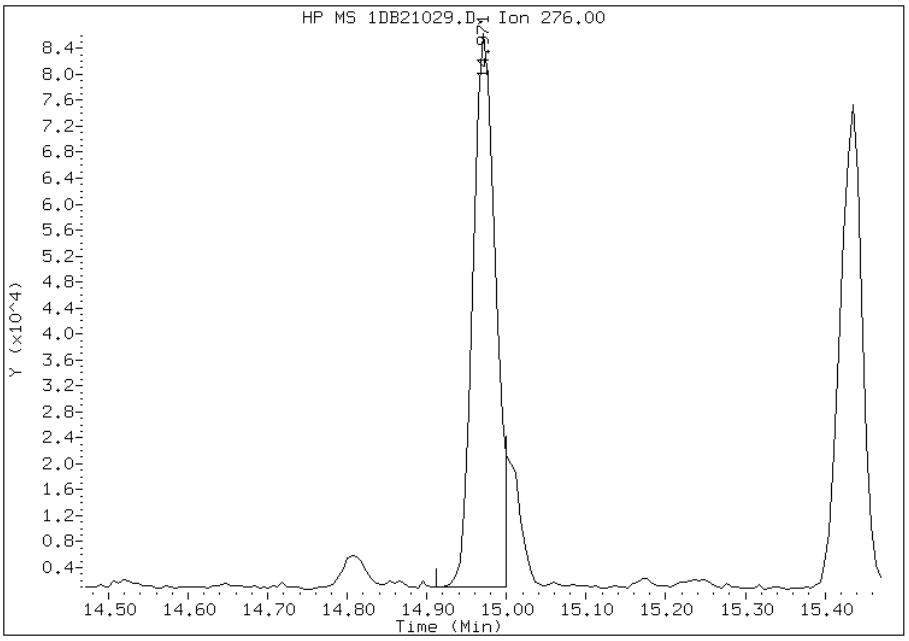
Manual Integration Results

RT: 14.97

Response: 169649

Amount: 2

Conc: 595



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0160K-CS MS | Lab Sample ID: 680-87496-61 MS

Matrix: Solid | Lab File ID: 1AB22028.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:09

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.28(g) | Date Analyzed: 02/22/2013 17:25

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

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

% Moisture: 4.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	385		100	21
208-96-8	Acenaphthylene	401		41	5.1
120-12-7	Anthracene	414		8.6	4.3
56-55-3	Benzo[a]anthracene	434		8.2	4.0
50-32-8	Benzo[a]pyrene	314		11	5.3
205-99-2	Benzo[b]fluoranthene	321		13	6.3
191-24-2	Benzo[g,h,i]perylene	396		21	4.5
207-08-9	Benzo[k]fluoranthene	335		8.2	3.7
218-01-9	Chrysene	388		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	413		21	4.2
206-44-0	Fluoranthene	347		21	4.1
86-73-7	Fluorene	401		21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	395		21	7.3
90-12-0	1-Methylnaphthalene	492		41	4.5
91-57-6	2-Methylnaphthalene	468		41	7.3
91-20-3	Naphthalene	457		41	4.5
85-01-8	Phenanthrene	450		8.2	4.0
129-00-0	Pyrene	417		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22028.D
Lab Smp Id: 680-87496-a-61-b ms
Inj Date : 22-FEB-2013 17:25
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-61-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 28 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	15.280	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	2.401	2.397	(1.000)	1128067	40.0000	
* 6 Acenaphthene-d10	164	3.427	3.417	(1.000)	855211	40.0000	
* 10 Phenanthrene-d10	188	4.362	4.352	(1.000)	1240491	40.0000	
$ 14 o-Terphenyl	230	4.640	4.635	(1.064)	103099	5.71171	373.8033
* 18 Chrysene-d12	240	6.381	6.366	(1.000)	801823	40.0000	
* 23 Perylene-d12	264	7.482	7.456	(1.000)	1085241	40.0000	
2 Naphthalene	128	2.407	2.402	(1.002)	181563	6.67948	437.1389
3 2-Methylnaphthalene	141	2.813	2.808	(1.171)	95931	6.83637	447.4061
4 1-Methylnaphthalene	142	2.866	2.861	(1.194)	112399	7.19305	470.7490
5 Acenaphthylene	152	3.336	3.332	(0.973)	187169	5.86143	383.6012
7 Acenaphthene	154	3.443	3.433	(1.005)	103719	5.62125	367.8826
9 Fluorene	166	3.748	3.743	(1.094)	136334	5.85430	383.1348
11 Phenanthrene	178	4.378	4.368	(1.004)	202821	6.57775	430.4807
12 Anthracene	178	4.410	4.400	(1.011)	181308	6.05349	396.1710

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.565	4.555	(1.047)	138744	5.24760	343.4292
15 Fluoranthene	202	5.238	5.228	(1.201)	156460	5.07492	332.1281
16 Pyrene	202	5.404	5.394	(0.847)	143157	6.08697	398.3621
17 Benzo(a)anthracene	228	6.376	6.355	(0.999)	151627	6.33315	414.4729
19 Chrysene	228	6.397	6.387	(1.002)	121259	5.66301	370.6160
20 Benzo(b)fluoranthene	252	7.199	7.178	(0.962)	128926	4.68638	306.7001
21 Benzo(k)fluoranthene	252	7.215	7.199	(0.964)	135418	4.89270	320.2031
22 Benzo(a)pyrene	252	7.428	7.408	(0.993)	115671	4.59120	300.4714(R)
24 Indeno(1,2,3-cd)pyrene	276	8.208	8.177	(1.097)	124688	5.76878	377.5376(M)
25 Dibenzo(a,h)anthracene	278	8.219	8.193	(1.099)	135870	6.03227	394.7821
26 Benzo(g,h,i)perylene	276	8.417	8.385	(1.125)	133072	5.78846	378.8256

QC Flag Legend

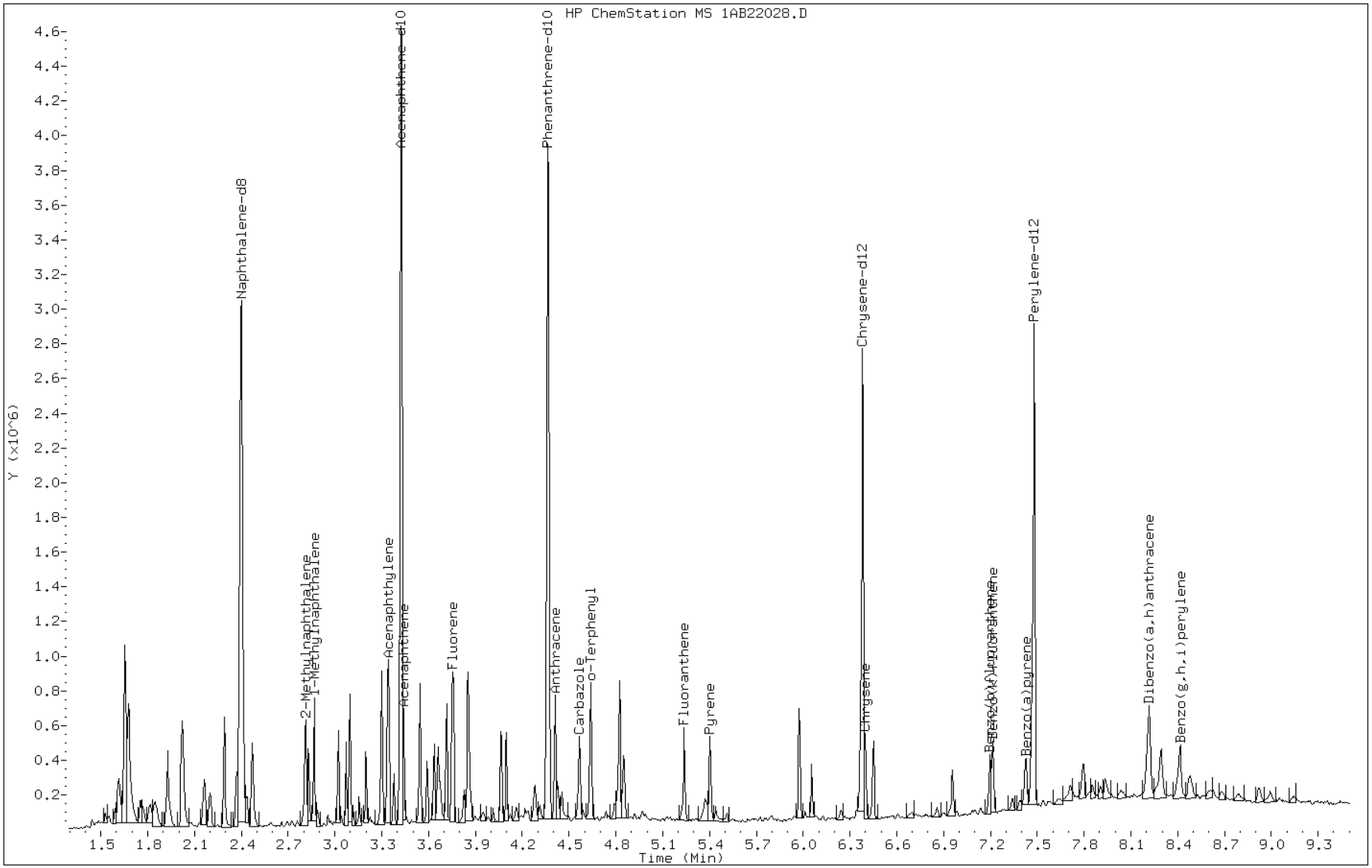
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AB22028.D

Date: 22-FEB-2013 17:25

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-b ms Operator: SCC



Manual Integration Report

Data File: 1AB22028.D
Inj. Date and Time: 22-FEB-2013 17:25
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

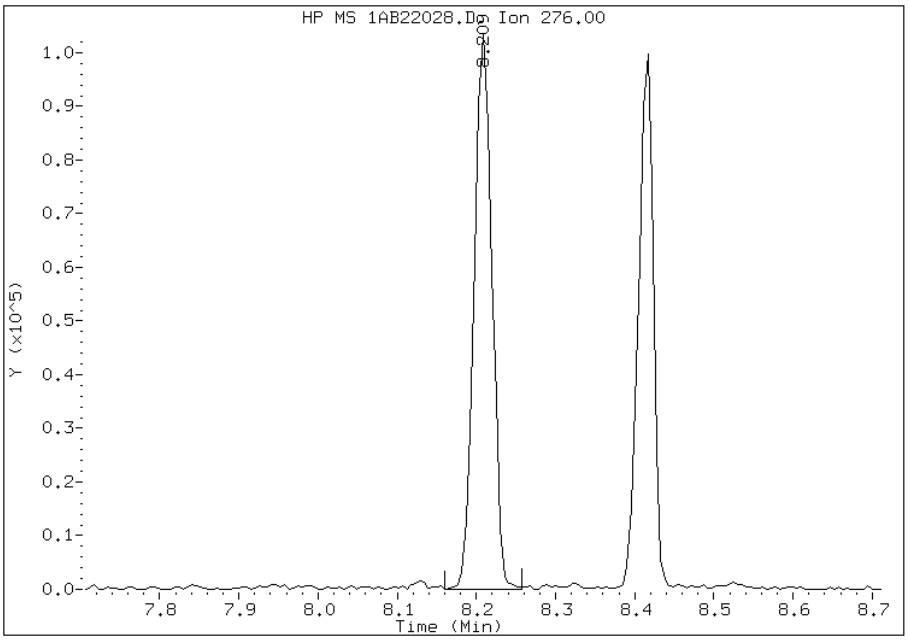
Processing Integration Results

RT: 8.21

Response: 160399

Amount: 7

Conc: 486



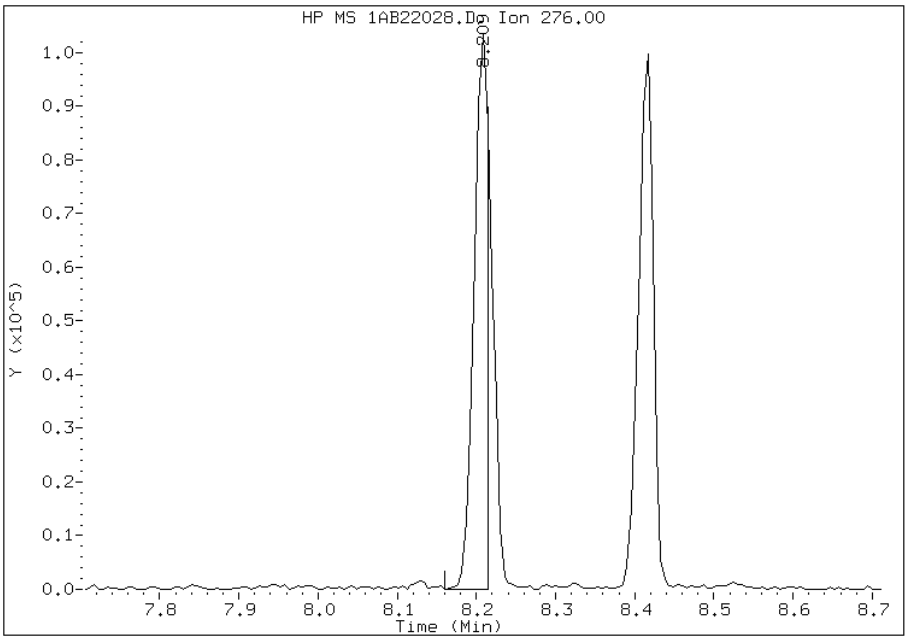
Manual Integration Results

RT: 8.21

Response: 124688

Amount: 6

Conc: 378



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: | Lab Sample ID: 680-87496-A-48-C MSD

Matrix: Solid | Lab File ID: 1DB21030.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.05(g) | Date Analyzed: 02/21/2013 22:06

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

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

% Moisture: 6.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	655		430	85
208-96-8	Acenaphthylene	685		170	21
120-12-7	Anthracene	721		36	18
56-55-3	Benzo[a]anthracene	885		34	17
50-32-8	Benzo[a]pyrene	893		44	22
205-99-2	Benzo[b]fluoranthene	1180		52	26
191-24-2	Benzo[g,h,i]perylene	507		85	19
207-08-9	Benzo[k]fluoranthene	938		34	15
218-01-9	Chrysene	938		38	19
53-70-3	Dibenz(a,h)anthracene	559		85	17
206-44-0	Fluoranthene	1080		85	17
86-73-7	Fluorene	674		85	17
193-39-5	Indeno[1,2,3-cd]pyrene	566		85	30
90-12-0	1-Methylnaphthalene	775		170	19
91-57-6	2-Methylnaphthalene	757		170	30
91-20-3	Naphthalene	688		170	19
85-01-8	Phenanthrene	831		34	17
129-00-0	Pyrene	984		85	16

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21030.D
Lab Smp Id: 680-87496-A-48-C MS
Inj Date : 21-FEB-2013 22:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-48-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 30 QC Sample: MSD
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	15.050	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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.196	6.195	(1.000)	3280026	40.0000	
* 6 Acenaphthene-d10	164	7.865	7.863	(1.000)	1985095	40.0000	
* 9 Phenanthrene-d10	188	9.122	9.127	(1.000)	3232519	40.0000	
$ 13 o-Terphenyl	230	9.428	9.432	(1.033)	125883	2.62281	700
* 17 Chrysene-d12	240	11.473	11.477	(1.000)	3166345	40.0000	
* 22 Perylene-d12	264	13.359	13.363	(1.000)	2723446	40.0000	
2 Naphthalene	128	6.214	6.212	(1.003)	210499	2.42667	640
3 2-Methylnaphthalene	142	6.913	6.912	(1.116)	147226	2.67228	710
4 1-Methylnaphthalene	142	7.007	7.006	(1.131)	141698	2.73432	730
5 Acenaphthylene	152	7.736	7.734	(0.984)	207105	2.41645	640
7 Acenaphthene	154	7.889	7.893	(1.003)	120724	2.30964	610
8 Fluorene	166	8.329	8.333	(1.059)	147599	2.37659	630
10 Phenanthrene	178	9.140	9.144	(1.002)	270683	2.93104	780
11 Anthracene	178	9.181	9.185	(1.006)	230079	2.54281	680

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.316	9.320	(1.021)	186690	2.32956	620
14 Fluoranthene	202	10.121	10.125	(1.109)	351320	3.79778	1000(R)
15 Pyrene	202	10.309	10.313	(0.899)	343312	3.47263	920(R)
16 Benzo(a)anthracene	228	11.449	11.447	(0.998)	289116	3.12159	830
18 Chrysene	228	11.490	11.500	(1.002)	295382	3.30978	880(R)
19 Benzo(b)fluoranthene	252	12.789	12.793	(0.957)	287881	4.16406	1100(R)
20 Benzo(k)fluoranthene	252	12.824	12.840	(0.960)	241671	3.30940	880(R)
21 Benzo(a)pyrene	252	13.253	13.263	(0.992)	214667	3.14931	840
23 Indeno(1,2,3-cd)pyrene	276	14.974	14.990	(1.121)	145220	1.99601	530(M)
24 Dibenzo(a,h)anthracene	278	15.004	15.026	(1.123)	131774	1.97379	520
25 Benzo(g,h,i)perylene	276	15.427	15.460	(1.155)	124591	1.78984	480

QC Flag Legend

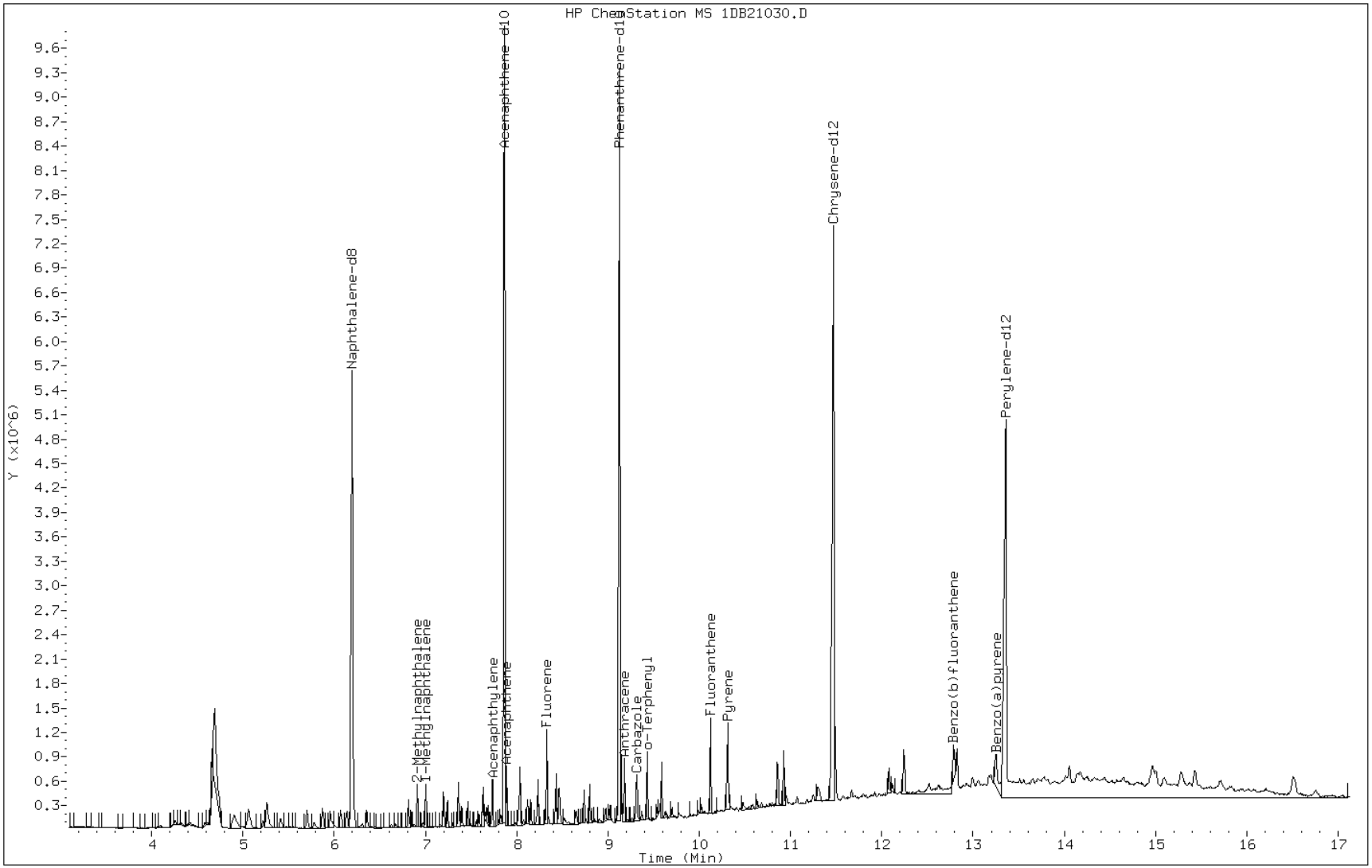
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DB21030.D

Date: 21-FEB-2013 22:06

Client ID: Instrument: BSMSD.i

Sample Info: 680-87496-A-48-C MSD Operator: SCC



Manual Integration Report

Data File: 1DB21030.D
Inj. Date and Time: 21-FEB-2013 22:06
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

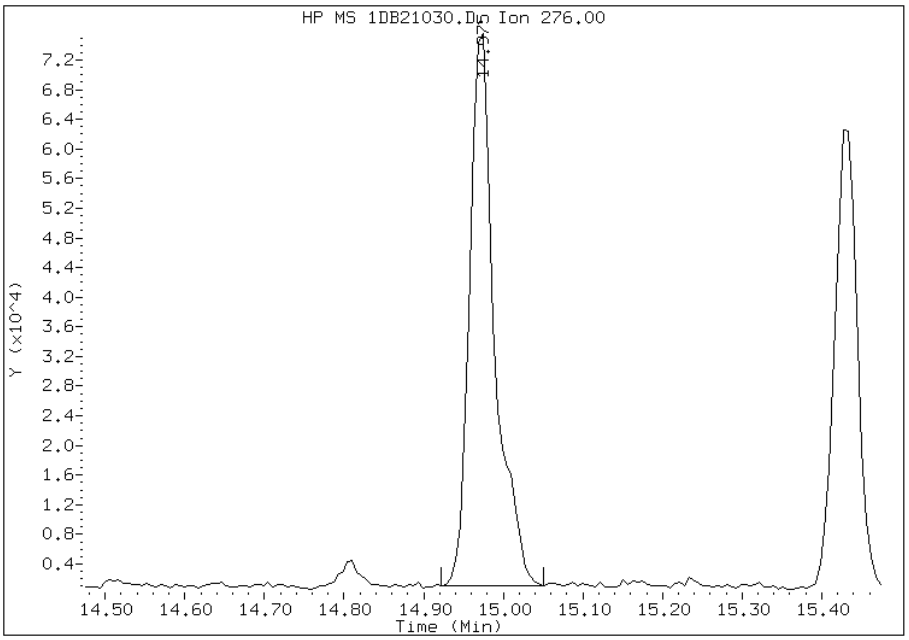
Processing Integration Results

RT: 14.97

Response: 163813

Amount: 2

Conc: 598



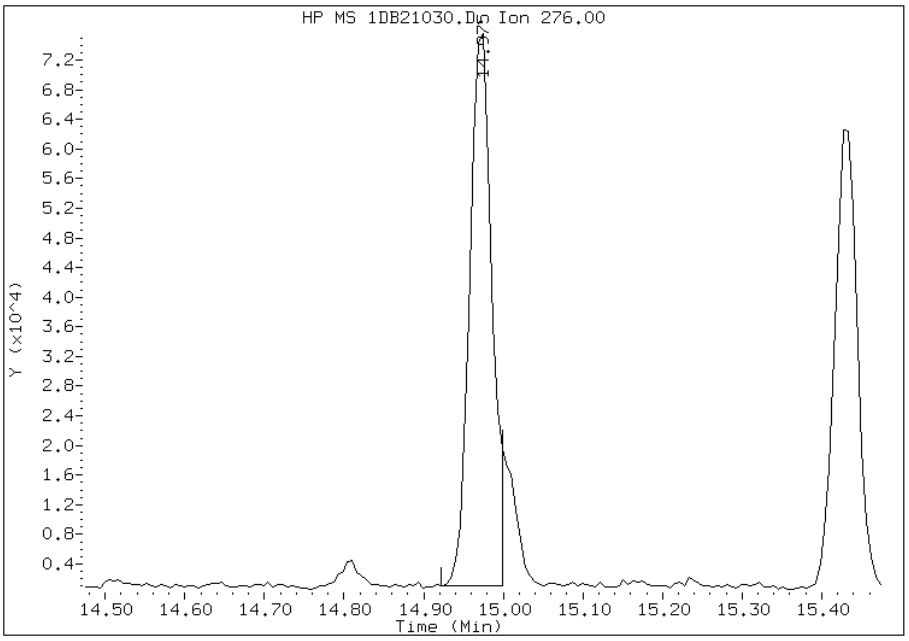
Manual Integration Results

RT: 14.97

Response: 145220

Amount: 2

Conc: 531



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-4

SDG No.: 68087496-4

Client Sample ID: FM0160K-CS MSD | Lab Sample ID: 680-87496-61 MSD

Matrix: Solid | Lab File ID: 1AB22029.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:09

Extract. Method: 3546 | Date Extracted: 02/21/2013 09:55

Sample wt/vol: 15.28(g) | Date Analyzed: 02/22/2013 17:40

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

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

% Moisture: 4.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	463		100	21
208-96-8	Acenaphthylene	501		41	5.1
120-12-7	Anthracene	512		8.6	4.3
56-55-3	Benzo[a]anthracene	530		8.2	4.0
50-32-8	Benzo[a]pyrene	402		11	5.3
205-99-2	Benzo[b]fluoranthene	412		13	6.3
191-24-2	Benzo[g,h,i]perylene	508		21	4.5
207-08-9	Benzo[k]fluoranthene	425		8.2	3.7
218-01-9	Chrysene	475		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	514		21	4.2
206-44-0	Fluoranthene	413		21	4.1
86-73-7	Fluorene	508		21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	528		21	7.3
90-12-0	1-Methylnaphthalene	572		41	4.5
91-57-6	2-Methylnaphthalene	569		41	7.3
91-20-3	Naphthalene	525		41	4.5
85-01-8	Phenanthrene	537		8.2	4.0
129-00-0	Pyrene	515		21	3.8

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\1A022213_IC.b\1AB22029.D
Lab Smp Id: 680-87496-a-61-c ms
Inj Date : 22-FEB-2013 17:40
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-61-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 29 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	15.280	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	2.398	2.397	(1.000)	1049303	40.0000	
* 6 Acenaphthene-d10	164	3.424	3.417	(1.000)	784243	40.0000	
* 10 Phenanthrene-d10	188	4.364	4.352	(1.000)	1180099	40.0000	
$ 14 o-Terphenyl	230	4.642	4.635	(1.064)	118685	6.91167	452.3345
* 18 Chrysene-d12	240	6.383	6.366	(1.000)	765601	40.0000	
* 23 Perylene-d12	264	7.484	7.456	(1.000)	1035149	40.0000	
2 Naphthalene	128	2.409	2.402	(1.004)	194012	7.67323	502.1745
3 2-Methylnaphthalene	141	2.810	2.808	(1.171)	108426	8.30680	543.6387
4 1-Methylnaphthalene	142	2.868	2.861	(1.196)	121391	8.35162	546.5721
5 Acenaphthylene	152	3.338	3.332	(0.975)	214237	7.31622	478.8099
7 Acenaphthene	154	3.440	3.433	(1.005)	114346	6.75800	442.2772
9 Fluorene	166	3.750	3.743	(1.095)	158496	7.42184	485.7226
11 Phenanthrene	178	4.380	4.368	(1.004)	230182	7.84713	513.5554
12 Anthracene	178	4.412	4.400	(1.011)	213280	7.48539	489.8815

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.567	4.555	(1.047)	160125	6.36621	416.6365
15 Fluoranthene	202	5.240	5.228	(1.201)	177148	6.04000	395.2880
16 Pyrene	202	5.406	5.394	(0.847)	169093	7.52992	492.7958
17 Benzo(a)anthracene	228	6.378	6.355	(0.999)	176964	7.74112	506.6179
19 Chrysene	228	6.400	6.387	(1.002)	141815	6.93636	453.9504
20 Benzo(b)fluoranthene	252	7.196	7.178	(0.961)	157993	6.02085	394.0348
21 Benzo(k)fluoranthene	252	7.217	7.199	(0.964)	163713	6.20125	405.8408
22 Benzo(a)pyrene	252	7.425	7.408	(0.992)	141130	5.87279	384.3451
24 Indeno(1,2,3-cd)pyrene	276	8.211	8.177	(1.097)	158945	7.70955	504.5518(M)
25 Dibenzo(a,h)anthracene	278	8.227	8.193	(1.099)	161454	7.51501	491.8198
26 Benzo(g,h,i)perylene	276	8.424	8.385	(1.126)	162564	7.41351	485.1772

QC Flag Legend

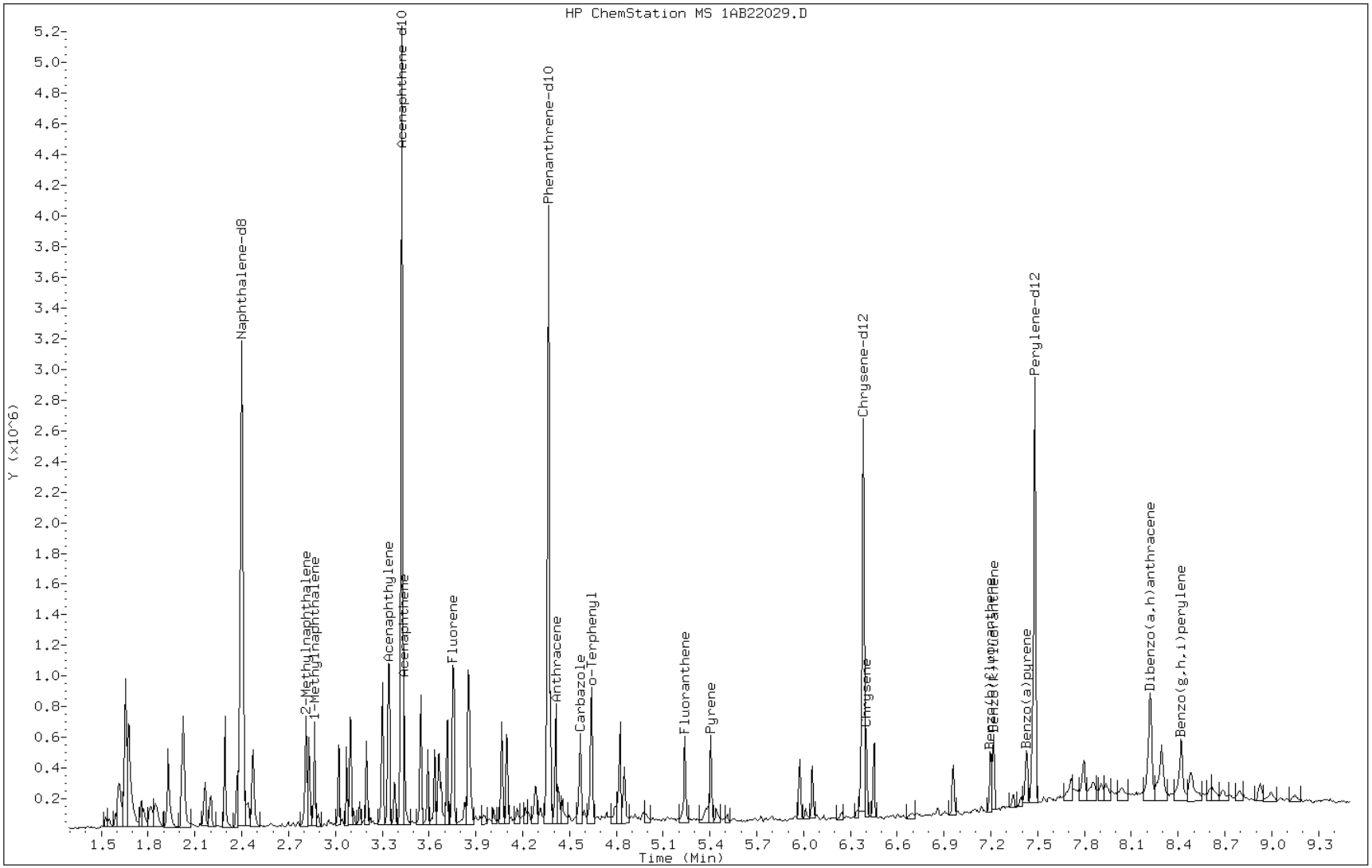
M - Compound response manually integrated.

Data File: 1AB22029.D

Date: 22-FEB-2013 17:40

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87496-a-61-c msd Operator: SCC



Manual Integration Report

Data File: 1AB22029.D
Inj. Date and Time: 22-FEB-2013 17:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

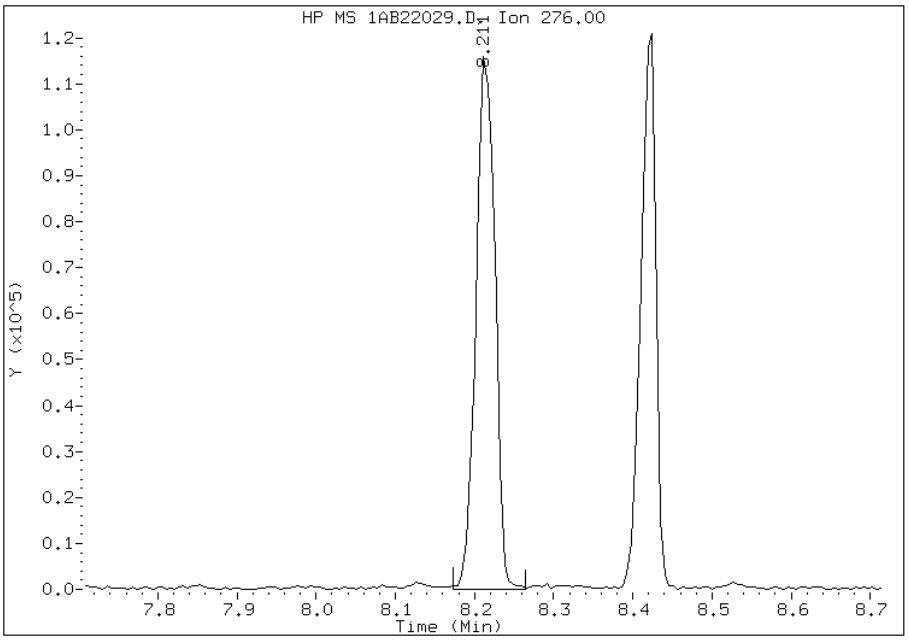
Processing Integration Results

RT: 8.21

Response: 191373

Amount: 9

Conc: 607



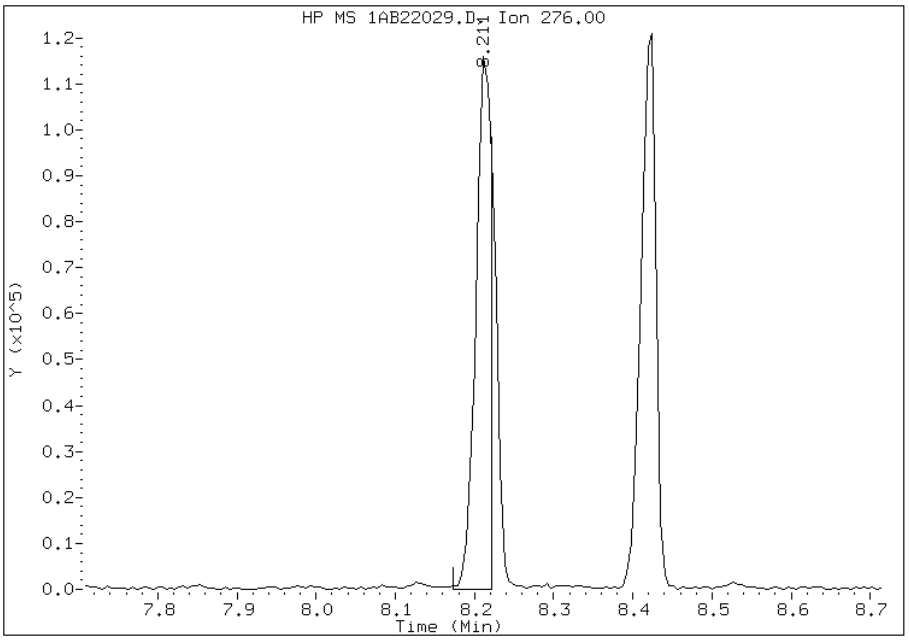
Manual Integration Results

RT: 8.21

Response: 158945

Amount: 8

Conc: 505



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 09:04
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Start Date: 02/22/2013 10:12

Analysis Batch Number: 134771 End Date: 02/22/2013 22:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 10:12	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 10:27	1		DB-5MS 250(um)
DFTPP 660-134771/2		02/22/2013 10:42	1	1AB22002.D	DB-5MS 250(um)
IC 660-134771/3		02/22/2013 11:01	1	1AB22003.D	DB-5MS 250(um)
IC 660-134771/4		02/22/2013 11:16	1	1AB22004.D	DB-5MS 250(um)
IC 660-134771/5		02/22/2013 11:31	1	1AB22005.D	DB-5MS 250(um)
IC 660-134771/6		02/22/2013 11:47	1	1AB22006.D	DB-5MS 250(um)
ICIS 660-134771/7		02/22/2013 12:02	1	1AB22007.D	DB-5MS 250(um)
IC 660-134771/8		02/22/2013 12:17	1	1AB22008.D	DB-5MS 250(um)
IC 660-134771/9		02/22/2013 12:32	1	1AB22009.D	DB-5MS 250(um)
ICV 660-134771/10		02/22/2013 12:48	1	1AB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 13:08	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 13:23	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 13:38	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 13:53	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:08	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:24	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:54	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:09	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:24	1		DB-5MS 250(um)
680-87496-62	FM0160K-CSD	02/22/2013 15:39	1	1AB22021.D	DB-5MS 250(um)
680-87496-63	FM0160L-CS	02/22/2013 15:55	1	1AB22022.D	DB-5MS 250(um)
680-87496-64	FM0161A-CS	02/22/2013 16:09	1	1AB22023.D	DB-5MS 250(um)
680-87496-65	FM0161B-CS	02/22/2013 16:25	1	1AB22024.D	DB-5MS 250(um)
MB 660-134699/1-A		02/22/2013 16:39	1	1AB22025.D	DB-5MS 250(um)
LCS 660-134699/2-A		02/22/2013 16:55	1	1AB22026.D	DB-5MS 250(um)
680-87496-61	FM0160K-CS	02/22/2013 17:10	1	1AB22027.D	DB-5MS 250(um)
680-87496-61 MS	FM0160K-CS MS	02/22/2013 17:25	1	1AB22028.D	DB-5MS 250(um)
680-87496-61 MSD	FM0160K-CS MSD	02/22/2013 17:40	1	1AB22029.D	DB-5MS 250(um)
680-87496-66	FM0161C-CS	02/22/2013 17:55	4	1AB22030.D	DB-5MS 250(um)
680-87496-67	FM0161D-CS	02/22/2013 18:10	1	1AB22031.D	DB-5MS 250(um)
680-87496-68	FM0161AB-GS	02/22/2013 18:26	1	1AB22032.D	DB-5MS 250(um)
680-87496-69	FM0161AC-GS	02/22/2013 18:41	1	1AB22033.D	DB-5MS 250(um)
680-87496-70	Unamed Tributary Bank-A	02/22/2013 18:55	1	1AB22034.D	DB-5MS 250(um)
680-87496-71	Unamed Tributary Grab-A	02/22/2013 19:11	1	1AB22035.D	DB-5MS 250(um)
680-87496-72	Unamed Tributary SD-A	02/22/2013 19:26	1	1AB22036.D	DB-5MS 250(um)
680-87496-73	Unamed Tributary Bank-B	02/22/2013 19:41	1	1AB22037.D	DB-5MS 250(um)
680-87496-74	Unamed Tributary Grab-B	02/22/2013 19:56	1	1AB22038.D	DB-5MS 250(um)
680-87496-75	Unamed Tributary SD-B	02/22/2013 20:11	1	1AB22039.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 20:27	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:42	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:57	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Start Date: 02/22/2013 10:12

Analysis Batch Number: 134771 End Date: 02/22/2013 22:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 21:12	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:27	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:43	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:58	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 22:13	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 22:28	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Start Date: 02/25/2013 11:29

Analysis Batch Number: 134820 End Date: 02/26/2013 01:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/25/2013 11:29	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 11:45	1		DB-5MS 250(um)
DFTPP 660-134820/2		02/25/2013 12:00	1		DB-5MS 250(um)
DFTPP 660-134820/3		02/25/2013 12:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 14:13	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 14:29	1		DB-5MS 250(um)
DFTPP 660-134820/5		02/25/2013 14:44	1	1AB25005.D	DB-5MS 250(um)
CCVIS 660-134820/6		02/25/2013 14:59	1	1AB25006.D	DB-5MS 250(um)
ZZZZZ		02/25/2013 15:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 15:29	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 15:44	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 15:59	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 16:14	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 16:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 16:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 17:00	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 17:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 17:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 17:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 18:00	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 18:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 18:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 18:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 19:00	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 19:16	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 19:31	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 19:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 20:00	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 20:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 20:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 20:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 21:00	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 21:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 21:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 21:45	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 22:00	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 22:15	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 22:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 22:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 23:01	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 23:16	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 23:31	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 23:46	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 00:01	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 00:17	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMA5973 Start Date: 02/25/2013 11:29

Analysis Batch Number: 134820 End Date: 02/26/2013 01:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/26/2013 00:32	4		DB-5MS 250(um)
ZZZZZ		02/26/2013 00:47	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 01:02	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 01:17	4		DB-5MS 250(um)
ZZZZZ		02/26/2013 01:32	1		DB-5MS 250(um)
680-87496-76	Unamed Tributary SD-C	02/26/2013 01:47	1	1AB25049.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMD5973 Start Date: 01/07/2013 09:12

Analysis Batch Number: 133192 End Date: 01/07/2013 13:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/07/2013 09:12	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 09:35	1		DB-5MS 250(um)
DFTPP 660-133192/2		01/07/2013 09:59	1	1DA07002.D	DB-5MS 250(um)
IC 660-133192/3		01/07/2013 10:43	1	1DA07003.D	DB-5MS 250(um)
IC 660-133192/4		01/07/2013 11:05	1	1DA07004.D	DB-5MS 250(um)
IC 660-133192/5		01/07/2013 11:28	1	1DA07005.D	DB-5MS 250(um)
IC 660-133192/6		01/07/2013 11:50	1	1DA07006.D	DB-5MS 250(um)
ICIS 660-133192/7		01/07/2013 12:13	1	1DA07007.D	DB-5MS 250(um)
IC 660-133192/8		01/07/2013 12:36	1	1DA07008.D	DB-5MS 250(um)
IC 660-133192/9		01/07/2013 12:58	1	1DA07009.D	DB-5MS 250(um)
ICV 660-133192/10		01/07/2013 13:20	1	1DA07010.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: BSMD5973 Start Date: 02/21/2013 10:54

Analysis Batch Number: 134722 End Date: 02/21/2013 23:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/21/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 11:16	1		DB-5MS 250(um)
DFTPP 660-134722/2		02/21/2013 11:40	1	1DB21002.D	DB-5MS 250(um)
CCVIS 660-134722/3		02/21/2013 11:57	1	1DB21003.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 12:19	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 12:42	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 13:05	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 13:27	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 13:50	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:12	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:35	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:57	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 15:20	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 15:43	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:05	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:28	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:50	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 17:13	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 17:36	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 17:58	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 18:21	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 18:43	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 19:06	1		DB-5MS 250(um)
MB 660-134677/1-A		02/21/2013 19:28	1	1DB21023.D	DB-5MS 250(um)
LCS 660-134677/2-A		02/21/2013 19:51	1	1DB21024.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 20:14	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 20:36	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 20:59	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 21:21	4		DB-5MS 250(um)
680-87496-A-48-B MS		02/21/2013 21:44	4	1DB21029.D	DB-5MS 250(um)
680-87496-A-48-C MSD		02/21/2013 22:06	4	1DB21030.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 22:29	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 22:52	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 23:14	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Batch Number: 134677 Batch Start Date: 02/20/13 15:19 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/21/13 09:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00175		
MB 660-134677/1		3546, 8270C LL		15.21 g	1 mL		1 mL		
LCS 660-134677/2		3546, 8270C LL		15.24 g	1 mL	1 mL	1 mL		
680-87496-A-48 MS		3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-87496-A-48 MSD		3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-87496-A-62	FM0160K-CSD	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-87496-A-63	FM0160L-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-87496-A-64	FM0161A-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-87496-A-65	FM0161B-CS	3546, 8270C LL	T	15.32 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.: 680-87496-4

SDG No.: 68087496-4

Batch Number: 134677 Batch Start Date: 02/20/13 15:19 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/21/13 09:15

Batch Notes	
Acetone Lot #	EX ACETON BOT _50
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _52
MeCl2/Acetone Lot #	DCM/ACETON _20
Microwave Start Time	17.50/2/20/13
Microwave Stop Time	18.25/2/20/13
Na2SO4 Lot Number	EX NA2S04 A_62
Ottawa Sand Lot #	OTTAWASAND_10
Person's name who did the prep	SAUREL
SOP Number	T P EX 014
Person who witnessed spiking	AG
Surrogate Lot Number	EX LLSURINT _175
Water Bath ID	TURBOVAP2#1/2/3
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.: 680-87496-4

SDG No.: 68087496-4

Batch Number: 134699 Batch Start Date: 02/21/13 09:55 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/22/13 08:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00175		
MB 660-134699/1		3546, 8270C LL		15.33 g	1 mL		1 mL		
LCS 660-134699/2		3546, 8270C LL		15.33 g	1 mL	1 mL	1 mL		
680-87496-A-61	FM0160K-CS	3546, 8270C LL	T	15.28 g	1 mL		1 mL		
680-87496-A-61 MS	FM0160K-CS	3546, 8270C LL	T	15.28 g	1 mL	1 mL	1 mL		
680-87496-A-61 MSD	FM0160K-CS	3546, 8270C LL	T	15.28 g	1 mL	1 mL	1 mL		
680-87496-A-66	FM0161C-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-87496-A-67	FM0161D-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-87496-A-68	FM0161AB-GS	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-87496-A-69	FM0161AC-GS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-87496-A-70	Unamed Tributary Bank-A	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-87496-A-71	Unamed Tributary Grab-A	3546, 8270C LL	T	15.38 g	1 mL		1 mL		
680-87496-A-72	Unamed Tributary SD-A	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-87496-A-73	Unamed Tributary Bank-B	3546, 8270C LL	T	15.48 g	1 mL		1 mL		
680-87496-A-74	Unamed Tributary Grab-B	3546, 8270C LL	T	15.43 g	1 mL		1 mL		
680-87496-A-75	Unamed Tributary SD-B	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-87496-A-76	Unamed Tributary SD-C	3546, 8270C LL	T	15.06 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.: 680-87496-4

SDG No.: 68087496-4

Batch Number: 134699 Batch Start Date: 02/21/13 09:55 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/22/13 08:55

Batch Notes	
Acetone Lot #	EX-ACETON BOT_46
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	EX-DCM/ACETON_21
Microwave Start Time	12:00 2/21/13
Microwave Stop Time	12:35 2/21/13
Na2SO4 Lot Number	EX-NA2S04A_62
Ottawa Sand Lot #	EX-OTTOWA SAND_10
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_175
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: 680-87496-4

SDG No.: 68087496-4

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0160K-CS	680-87496-61
FM0160K-CSD	680-87496-62
FM0160L-CS	680-87496-63
FM0161A-CS	680-87496-64
FM0161B-CS	680-87496-65
FM0161C-CS	680-87496-66
FM0161D-CS	680-87496-67
FM0161AB-GS	680-87496-68
FM0161AC-GS	680-87496-69
Unamed Tributary Bank-A	680-87496-70
Unamed Tributary Grab-A	680-87496-71
Unamed Tributary SD-A	680-87496-72
Unamed Tributary Bank-B	680-87496-73
Unamed Tributary Grab-B	680-87496-74
Unamed Tributary SD-B	680-87496-75
Unamed Tributary SD-C	680-87496-76

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87496-4

SDG Number: 68087496-4

Matrix: Solid Instrument ID: Moisture

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: 680-87496-4

SDG Number: 68087496-4

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87496-4

SDG Number: 68087496-4

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: 680-87496-4

SDG Number: 68087496-4

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.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: Moisture Method: Moisture

Start Date: 02/25/2013 11:36 End Date: 02/25/2013 13:44

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134815/12	1	T	11:36	X																			
LCS 660-134815/1	1	T	11:37	X																			
ZZZZZZ			12:03																				
ZZZZZZ			12:09																				
ZZZZZZ			12:32																				
ZZZZZZ			12:47																				
680-87496-68	1	T	12:57	X																			
ZZZZZZ			12:58																				
ZZZZZZ			13:15																				
ZZZZZZ			13:20																				
ZZZZZZ			13:43																				
ZZZZZZ			13:44																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/18/2013 11:39 End Date: 02/18/2013 11:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134581/1	1	T	11:39	X																			
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
680-87496-61	1	T	11:39	X																			
680-87496-62	1	T	11:39	X																			
680-87496-63	1	T	11:39	X																			
680-87496-64	1	T	11:39	X																			
680-87496-65	1	T	11:39	X																			
680-87496-66	1	T	11:39	X																			
680-87496-67	1	T	11:39	X																			
ZZZZZZ			11:39																				
680-87496-69	1	T	11:39	X																			
680-87496-70	1	T	11:39	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/18/2013 12:14 End Date: 02/18/2013 12:14

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134584/1	1	T	12:14	X																			
680-87496-71	1	T	12:14	X																			
680-87496-72	1	T	12:14	X																			
680-87496-73	1	T	12:14	X																			
680-87496-74	1	T	12:14	X																			
680-87496-75	1	T	12:14	X																			
680-87496-76	1	T	12:14	X																			
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Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87496-4

SDG No.: 68087496-4

Batch Number: 134581 Batch Start Date: 02/18/13 11:39 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134581/1		Moisture		mb	0 g	4.99 g	5.00 g		
680-87496-A-61	FM0160K-CS	Moisture	T	31	0 g	5.00 g	4.78 g		
680-87496-A-62	FM0160K-CSD	Moisture	T	32	0 g	5.04 g	4.77 g		
680-87496-A-63	FM0160L-CS	Moisture	T	33	0 g	5.07 g	4.63 g		
680-87496-A-64	FM0161A-CS	Moisture	T	34	0 g	5.00 g	4.03 g		
680-87496-A-65	FM0161B-CS	Moisture	T	35	0 g	5.13 g	4.20 g		
680-87496-A-66	FM0161C-CS	Moisture	T	36	0 g	6.47 g	6.01 g		
680-87496-A-67	FM0161D-CS	Moisture	T	37	0 g	5.27 g	4.67 g		
680-87496-A-69	FM0161AC-GS	Moisture	T	39	0 g	5.27 g	4.93 g		
680-87496-A-70	Unamed Tributary Bank-A	Moisture	T	40	0 g	5.20 g	4.13 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.18.13

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.: 680-87496-4

SDG No.: 68087496-4

Batch Number: 134584 Batch Start Date: 02/18/13 12:14 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134584/1		Moisture		mb	0 g	5.02 g	5.05 g		
680-87496-A-71	Unamed Tributary Grab-A	Moisture	T	41	0 g	5.99 g	4.10 g		
680-87496-A-72	Unamed Tributary SD-A	Moisture	T	42	0 g	5.71 g	5.14 g		
680-87496-A-73	Unamed Tributary Bank-B	Moisture	T	43	0 g	5.23 g	4.37 g		
680-87496-A-74	Unamed Tributary Grab-B	Moisture	T	44	0 g	5.02 g	3.39 g		
680-87496-A-75	Unamed Tributary SD-B	Moisture	T	45	0 g	5.13 g	4.37 g		
680-87496-A-76	Unamed Tributary SD-C	Moisture	T	46	0 g	5.19 g	3.65 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.18.13

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.: 680-87496-4

SDG No.: 68087496-4

Batch Number: 134815 Batch Start Date: 02/25/13 11:36 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134815/1		Moisture		0 g	10.032 g	9.017 g			
680-87496-A-68	FM0161AB-GS	Moisture	T	0 g	4.819 g	3.822 g			
LCSD 660-134815/12		Moisture		0 g	10.02 g	9.02 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

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 59537

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	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
R. Henderson		

CLIENT NAME	CLIENT E-MAIL
OTIE	LKrebs@otie.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 6 OF 7

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8270 LL PAH	RCRA Metals									REMARKS
								PRESERVATIVE										
2/13/13	1609	FM0160K-CS	C		X			X										
	1611	FM0160K-CSD	C		X			X										
	1615	FM0160L-CS	C		X			X										
	1630	FM0161A-CS	C		X			X										
	1638	FM0161B-CS	C		X			X										
	1645	FM0161C-CS	C		X			X										
	1650	FM0161D-CS	C		X			X										
	1635	FM0161AB-GS	G		X			X										
	1645	FM0161AC-GS	G		X			X										
	1435	Unamed Tributary Bank-A	C		X			X	X									
	1340	Unamed Tributary Grab-A	G		X			X	X									
	1430	Unamed Tributary SD-A	C		X			X	X									

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/14/13	1600						

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]	02/15/13	0942	YES ○ NO ○		680-87496	5.8/5.2°C

TAL8240-680 (1008)

Serial Number 59539

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	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
R. Henderson		

CLIENT NAME	CLIENT E-MAIL
OTIE	LKrebs@otie.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 7 OF 7

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8270 LL PAH	RCRA Metals									REMARKS
		PRESERVATIVE																
		NUMBER OF CONTAINERS SUBMITTED																
2/13/13	1340	Unamed Tributary Bank-B	C		X			X	X									
	1350	Unamed Tributary Grab-B	G		X			X	X									
	1400	Unamed Tributary SD-B	C		X			X	X									
	1330	Unamed Tributary SD-C	C		X			X	X									
	1128	CV0971QQ-CS (sieve)							X									
	1135	CV0971SS-CS (sieve)							X									
	1138	CV0971TT-CS (sieve)							X									
	1345	CV0971VV-CS (sieve)							X									
	1407	CV0971WW-CS (sieve)							X									
	1415	CV0971YY-CS (sieve)							X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/14/13	1600						

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]	02/15/13	1942	YES ◯ NO ◯		680-87496	5.8/5.2 °C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-4
SDG Number: 68087496-4

Login Number: 87496
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	
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: 680-87496-4
SDG Number: 68087496-4

Login Number: 87496
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 02/16/13 09:16 AM

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	
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").	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: 680-87496-4
SDG Number: 68087496-4

Login Number: 87496
List Number: 2
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 02/16/13 09:29 AM

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	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	