ANALYTICAL REPORT

Job Number: 680-87218-2

SDG Number: 68087218-2

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
2/20/2013 11:19 AM

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87218-2

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 02/07/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0748I-CS (680-87218-21), CV0748J-CS (680-87218-22), CV0748K-CS (680-87218-23), CV0748L-CS (680-87218-24), CV0748M-CS (680-87218-25), CV0748N-CS (680-87218-26), CV0748O-CS (680-87218-27), CV0748P-CS (680-87218-28), CV0748Q-CS (680-87218-29), CV0748R-CS (680-87218-30), CV0748S-CS (680-87218-31), CV0748T-CS (680-87218-32), CV0748U-CS (680-87218-33), CV0748V-CS (680-87218-34), CV0439A-CS (680-87218-35), CV0439A-CSD (680-87218-36), CV0439B-CS (680-87218-37), CV0467A-CS (680-87218-38), CV0673A-CS (680-87218-39) and CV0673B-CS (680-87218-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/13/2013 and analyzed on 02/14/2013.

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

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-2
Sdg Number: 68087218-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87218-21	CV0748I-CS	Solid	02/05/2013 1300	02/07/2013 1042
680-87218-22	CV0748J-CS	Solid	02/05/2013 1318	02/07/2013 1042
680-87218-22MS	CV0748J-CS	Solid	02/05/2013 1318	02/07/2013 1042
680-87218-22MSD	CV0748J-CS	Solid	02/05/2013 1318	02/07/2013 1042
680-87218-23	CV0748K-CS	Solid	02/05/2013 1322	02/07/2013 1042
680-87218-24	CV0748L-CS	Solid	02/05/2013 1329	02/07/2013 1042
680-87218-25	CV0748M-CS	Solid	02/05/2013 1331	02/07/2013 1042
680-87218-26	CV0748N-CS	Solid	02/05/2013 1333	02/07/2013 1042
680-87218-27	CV0748O-CS	Solid	02/05/2013 1337	02/07/2013 1042
680-87218-28	CV0748P-CS	Solid	02/05/2013 1443	02/07/2013 1042
680-87218-29	CV0748Q-CS	Solid	02/05/2013 1442	02/07/2013 1042
680-87218-30	CV0748R-CS	Solid	02/05/2013 1459	02/07/2013 1042
680-87218-31	CV0748S-CS	Solid	02/05/2013 1507	02/07/2013 1042
680-87218-32	CV0748T-CS	Solid	02/05/2013 1519	02/07/2013 1042
680-87218-33	CV0748U-CS	Solid	02/05/2013 1522	02/07/2013 1042
680-87218-34	CV0748V-CS	Solid	02/05/2013 1530	02/07/2013 1042
680-87218-35	CV0439A-CS	Solid	02/05/2013 1230	02/07/2013 1042
680-87218-36	CV0439A-CSD	Solid	02/05/2013 1233	02/07/2013 1042
680-87218-37	CV0439B-CS	Solid	02/05/2013 1237	02/07/2013 1042
680-87218-38	CV0467A-CS	Solid	02/05/2013 1414	02/07/2013 1042
680-87218-39	CV0673A-CS	Solid	02/05/2013 1318	02/07/2013 1042
680-87218-40	CV0673B-CS	Solid	02/05/2013 1323	02/07/2013 1042

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-2
Sdg Number: 68087218-2

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: 680-87218-2
Sdg Number: 68087218-2

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-2
Sdg Number: 68087218-2

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	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: 680-87218-2
Sdg Number: 68087218-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134426					
LCS 660-134426/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134426/1-A	Method Blank	T	Solid	3546	
680-87218-21	CV0748I-CS	T	Solid	3546	
680-87218-22	CV0748J-CS	T	Solid	3546	
680-87218-22MS	Matrix Spike	T	Solid	3546	
680-87218-22MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87218-23	CV0748K-CS	T	Solid	3546	
680-87218-24	CV0748L-CS	T	Solid	3546	
680-87218-25	CV0748M-CS	T	Solid	3546	
680-87218-26	CV0748N-CS	T	Solid	3546	
680-87218-27	CV0748O-CS	T	Solid	3546	
680-87218-28	CV0748P-CS	T	Solid	3546	
680-87218-29	CV0748Q-CS	T	Solid	3546	
680-87218-30	CV0748R-CS	T	Solid	3546	
680-87218-31	CV0748S-CS	T	Solid	3546	
680-87218-32	CV0748T-CS	T	Solid	3546	
680-87218-33	CV0748U-CS	T	Solid	3546	
680-87218-34	CV0748V-CS	T	Solid	3546	
680-87218-35	CV0439A-CS	T	Solid	3546	
680-87218-36	CV0439A-CSD	T	Solid	3546	
680-87218-37	CV0439B-CS	T	Solid	3546	
680-87218-38	CV0467A-CS	T	Solid	3546	
680-87218-39	CV0673A-CS	T	Solid	3546	
680-87218-40	CV0673B-CS	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-2
Sdg Number: 68087218-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134523					
LCS 660-134426/2-A	Lab Control Sample	T	Solid	8270C LL	660-134426
MB 660-134426/1-A	Method Blank	T	Solid	8270C LL	660-134426
680-87218-21	CV0748I-CS	T	Solid	8270C LL	660-134426
680-87218-22	CV0748J-CS	T	Solid	8270C LL	660-134426
680-87218-22MS	Matrix Spike	T	Solid	8270C LL	660-134426
680-87218-22MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134426
680-87218-23	CV0748K-CS	T	Solid	8270C LL	660-134426
680-87218-24	CV0748L-CS	T	Solid	8270C LL	660-134426
680-87218-25	CV0748M-CS	T	Solid	8270C LL	660-134426
680-87218-26	CV0748N-CS	T	Solid	8270C LL	660-134426
680-87218-27	CV0748O-CS	T	Solid	8270C LL	660-134426
680-87218-28	CV0748P-CS	T	Solid	8270C LL	660-134426
680-87218-29	CV0748Q-CS	T	Solid	8270C LL	660-134426
680-87218-30	CV0748R-CS	T	Solid	8270C LL	660-134426
680-87218-31	CV0748S-CS	T	Solid	8270C LL	660-134426
680-87218-32	CV0748T-CS	T	Solid	8270C LL	660-134426
680-87218-33	CV0748U-CS	T	Solid	8270C LL	660-134426
680-87218-34	CV0748V-CS	T	Solid	8270C LL	660-134426
680-87218-35	CV0439A-CS	T	Solid	8270C LL	660-134426
680-87218-36	CV0439A-CSD	T	Solid	8270C LL	660-134426
680-87218-37	CV0439B-CS	T	Solid	8270C LL	660-134426
680-87218-38	CV0467A-CS	T	Solid	8270C LL	660-134426
680-87218-39	CV0673A-CS	T	Solid	8270C LL	660-134426
680-87218-40	CV0673B-CS	T	Solid	8270C LL	660-134426

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-2
Sdg Number: 68087218-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134293					
LCS 660-134293/1	Lab Control Sample	T	Solid	Moisture	
680-87218-21	CV0748I-CS	T	Solid	Moisture	
680-87218-22	CV0748J-CS	T	Solid	Moisture	
680-87218-23	CV0748K-CS	T	Solid	Moisture	
680-87218-24	CV0748L-CS	T	Solid	Moisture	
680-87218-25	CV0748M-CS	T	Solid	Moisture	
680-87218-26	CV0748N-CS	T	Solid	Moisture	
680-87218-27	CV0748O-CS	T	Solid	Moisture	
680-87218-28	CV0748P-CS	T	Solid	Moisture	
680-87218-29	CV0748Q-CS	T	Solid	Moisture	
680-87218-30	CV0748R-CS	T	Solid	Moisture	
680-87218-31	CV0748S-CS	T	Solid	Moisture	
680-87218-32	CV0748T-CS	T	Solid	Moisture	
680-87218-33	CV0748U-CS	T	Solid	Moisture	
680-87218-34	CV0748V-CS	T	Solid	Moisture	
680-87218-35	CV0439A-CS	T	Solid	Moisture	
680-87218-36	CV0439A-CSD	T	Solid	Moisture	
680-87218-37	CV0439B-CS	T	Solid	Moisture	
680-87218-38	CV0467A-CS	T	Solid	Moisture	
Analysis Batch:660-134296					
LCS 660-134296/1	Lab Control Sample	T	Solid	Moisture	
680-87218-39	CV0673A-CS	T	Solid	Moisture	
680-87218-40	CV0673B-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Analysis Batch Number: 133924

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Analysis Batch Number: 133924

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Analysis Batch Number: 134523

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

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

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

Lab Sample ID: LCS 660-134426/2-A Client Sample ID:

Date Analyzed: 02/14/13 11:07 Lab File ID: 1AB14006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.25	Split Peak	cantins	02/15/13 11:12

Lab Sample ID: 680-87218-21 Client Sample ID: CV0748I-CS

Date Analyzed: 02/14/13 11:22 Lab File ID: 1AB14007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/15/13 11:12
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/15/13 11:12
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/15/13 11:13

Lab Sample ID: 680-87218-22 Client Sample ID: CV0748J-CS

Date Analyzed: 02/14/13 11:37 Lab File ID: 1AB14008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/15/13 11:13
Benzo[k]fluoranthene	7.24	Baseline Event	cantins	02/15/13 11:13
Indeno[1,2,3-cd]pyrene	8.25	Split Peak	cantins	02/15/13 11:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: 680-87218-22 MS Client Sample ID: CV0748J-CS MS

Date Analyzed: 02/14/13 11:52 Lab File ID: 1AB14009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/15/13 11:14

Lab Sample ID: 680-87218-22 MSD Client Sample ID: CV0748J-CS MSD

Date Analyzed: 02/14/13 12:07 Lab File ID: 1AB14010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/15/13 11:15

Lab Sample ID: 680-87218-23 Client Sample ID: CV0748K-CS

Date Analyzed: 02/14/13 12:22 Lab File ID: 1AB14011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/15/13 11:16
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 11:16
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/15/13 11:16

Lab Sample ID: 680-87218-24 Client Sample ID: CV0748L-CS

Date Analyzed: 02/14/13 12:38 Lab File ID: 1AB14012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/15/13 11:17
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/15/13 11:17
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/15/13 11:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: 680-87218-25 Client Sample ID: CV0748M-CS

Date Analyzed: 02/14/13 12:53 Lab File ID: 1AB14013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 11:18
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 11:18
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 11:18

Lab Sample ID: 680-87218-26 Client Sample ID: CV0748N-CS

Date Analyzed: 02/14/13 13:08 Lab File ID: 1AB14014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 11:19
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 11:19
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/15/13 11:19

Lab Sample ID: 680-87218-27 Client Sample ID: CV0748O-CS

Date Analyzed: 02/14/13 13:23 Lab File ID: 1AB14015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 11:20
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/15/13 11:20
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/15/13 11:21
Dibenz(a,h)anthracene	8.27	Baseline Event	cantins	02/15/13 11:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: 680-87218-28 Client Sample ID: CV0748P-CS

Date Analyzed: 02/14/13 13:38 Lab File ID: 1AB14016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 11:22
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/15/13 11:22
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/15/13 11:22

Lab Sample ID: 680-87218-29 Client Sample ID: CV0748Q-CS

Date Analyzed: 02/14/13 13:53 Lab File ID: 1AB14017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/15/13 11:23
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 11:23
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/15/13 11:24

Lab Sample ID: 680-87218-30 Client Sample ID: CV0748R-CS

Date Analyzed: 02/14/13 14:08 Lab File ID: 1AB14018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/15/13 11:24
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/15/13 11:24
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/15/13 11:25

Lab Sample ID: 680-87218-31 Client Sample ID: CV0748S-CS

Date Analyzed: 02/14/13 14:23 Lab File ID: 1AB14019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 11:25
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 11:25
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 11:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: 680-87218-32 Client Sample ID: CV0748T-CS

Date Analyzed: 02/14/13 14:38 Lab File ID: 1AB14020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/15/13 11:26
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 11:27
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/15/13 11:27

Lab Sample ID: 680-87218-33 Client Sample ID: CV0748U-CS

Date Analyzed: 02/14/13 14:53 Lab File ID: 1AB14021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 11:28
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 11:28
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/15/13 11:28

Lab Sample ID: 680-87218-34 Client Sample ID: CV0748V-CS

Date Analyzed: 02/14/13 15:08 Lab File ID: 1AB14022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 11:29
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 11:29
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/15/13 11:29
Dibenz(a,h)anthracene	8.28	Baseline Event	cantins	02/15/13 11:29

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: 680-87218-35 Client Sample ID: CV0439A-CS

Date Analyzed: 02/14/13 15:24 Lab File ID: 1AB14023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 11:36
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 11:36
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 11:37

Lab Sample ID: 680-87218-36 Client Sample ID: CV0439A-CSD

Date Analyzed: 02/14/13 15:39 Lab File ID: 1AB14024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 11:37
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/15/13 11:37
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/15/13 11:38

Lab Sample ID: 680-87218-37 Client Sample ID: CV0439B-CS

Date Analyzed: 02/14/13 15:54 Lab File ID: 1AB14025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.32	Split Peak	cantins	02/15/13 11:39
Benzo[k]fluoranthene	7.32	Baseline Event	cantins	02/15/13 11:39
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	02/15/13 11:43

Lab Sample ID: 680-87218-38 Client Sample ID: CV0467A-CS

Date Analyzed: 02/14/13 16:09 Lab File ID: 1AB14026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.26	Split Peak	cantins	02/15/13 11:44
Benzo[k]fluoranthene	7.27	Baseline Event	cantins	02/15/13 11:44
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	cantins	02/15/13 11:45

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Analysis Batch Number: 134523

Lab Sample ID: 680-87218-39 Client Sample ID: CV0673A-CS

Date Analyzed: 02/14/13 16:24 Lab File ID: 1AB14027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.25	Split Peak	cantins	02/15/13 11:45
Benzo[k]fluoranthene	7.28	Baseline Event	cantins	02/15/13 11:45
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 11:46
Dibenz(a,h)anthracene	8.29	Baseline Event	cantins	02/15/13 11:46
Benzo[g,h,i]perylene	8.49	Baseline Event	cantins	02/15/13 11:46

Lab Sample ID: 680-87218-40 Client Sample ID: CV0673B-CS

Date Analyzed: 02/14/13 16:39 Lab File ID: 1AB14028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	cantins	02/15/13 11:47
Dibenz(a,h)anthracene	8.29	Baseline Event	cantins	02/15/13 11:47

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.: 680-87218-2

SDG No.: 68087218-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0748I-CS	680-87218-21	71
CV0748J-CS	680-87218-22	72
CV0748K-CS	680-87218-23	66
CV0748L-CS	680-87218-24	66
CV0748M-CS	680-87218-25	69
CV0748N-CS	680-87218-26	75
CV0748O-CS	680-87218-27	79
CV0748P-CS	680-87218-28	70
CV0748Q-CS	680-87218-29	81
CV0748R-CS	680-87218-30	82
CV0748S-CS	680-87218-31	62
CV0748T-CS	680-87218-32	70
CV0748U-CS	680-87218-33	78
CV0748V-CS	680-87218-34	85
CV0439A-CS	680-87218-35	86
CV0439A-CSD	680-87218-36	83
CV0439B-CS	680-87218-37	61
CV0467A-CS	680-87218-38	71
CV0673A-CS	680-87218-39	80
CV0673B-CS	680-87218-40	77
	MB 660-134426/1-A	74
	LCS 660-134426/2-A	62
CV0748J-CS MS	680-87218-22 MS	71
CV0748J-CS MSD	680-87218-22 MSD	75

	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.: 680-87218-2

SDG No.: 68087218-2

Matrix: Solid Level: Low Lab File ID: 1AB14006.D

Lab ID: LCS 660-134426/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	661	327	49	39-130	
Acenaphthylene	661	328	50	38-130	
Anthracene	661	367	56	37-130	
Benzo[a]anthracene	661	411	62	40-130	
Benzo[a]pyrene	661	346	52	49-130	
Benzo[b]fluoranthene	661	351	53	37-130	
Benzo[g,h,i]perylene	661	446	67	32-130	
Benzo[k]fluoranthene	661	399	60	32-130	
Chrysene	661	393	60	41-130	
Dibenz(a,h)anthracene	661	422	64	27-130	
Fluoranthene	661	373	56	40-130	
Fluorene	661	352	53	40-130	
Indeno[1,2,3-cd]pyrene	661	449	68	30-130	
1-Methylnaphthalene	661	382	58	31-130	
2-Methylnaphthalene	661	415	63	33-130	
Naphthalene	661	352	53	36-130	
Phenanthrene	661	360	54	42-130	
Pyrene	661	365	55	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.: 680-87218-2

SDG No.: 68087218-2

Matrix: Solid Level: Low Lab File ID: 1AB14009.D

Lab ID: 680-87218-22 MS Client ID: CV0748J-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	798	120 U	505	63	39-130	
Acenaphthylene	798	48 U	501	63	38-130	
Anthracene	798	13	531	65	37-130	
Benzo[a]anthracene	798	85	648	71	40-130	
Benzo[a]pyrene	798	59	477	52	49-130	
Benzo[b]fluoranthene	798	91	508	52	37-130	
Benzo[g,h,i]perylene	798	64	590	66	32-130	
Benzo[k]fluoranthene	798	48	548	63	32-130	
Chrysene	798	85	545	58	41-130	
Dibenz(a,h)anthracene	798	19 J	545	66	27-130	
Fluoranthene	798	180	609	54	40-130	
Fluorene	798	24 U	534	67	40-130	
Indeno[1,2,3-cd]pyrene	798	57	535	60	30-130	
1-Methylnaphthalene	798	5.8 J	557	69	31-130	
2-Methylnaphthalene	798	48 U	607	76	33-130	
Naphthalene	798	7.5 J	523	65	36-130	
Phenanthrene	798	110	571	58	42-130	
Pyrene	798	150	691	68	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.: 680-87218-2

SDG No.: 68087218-2

Matrix: Solid Level: Low Lab File ID: 1AB14010.D

Lab ID: 680-87218-22 MSD Client ID: CV0748J-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	798	526	66	4	40	39-130	
Acenaphthylene	798	518	65	3	40	38-130	
Anthracene	798	562	69	6	40	37-130	
Benzo[a]anthracene	798	665	73	3	40	40-130	
Benzo[a]pyrene	798	503	56	5	40	49-130	
Benzo[b]fluoranthene	798	554	58	9	40	37-130	
Benzo[g,h,i]perylene	798	673	76	13	40	32-130	
Benzo[k]fluoranthene	798	574	66	5	40	32-130	
Chrysene	798	547	58	0	40	41-130	
Dibenz(a,h)anthracene	798	589	71	8	40	27-130	
Fluoranthene	798	625	56	3	40	40-130	
Fluorene	798	560	70	5	40	40-130	
Indeno[1,2,3-cd]pyrene	798	594	67	10	40	30-130	
1-Methylnaphthalene	798	560	69	1	40	31-130	
2-Methylnaphthalene	798	609	76	0	40	33-130	
Naphthalene	798	535	66	2	40	36-130	
Phenanthrene	798	589	60	3	40	42-130	
Pyrene	798	761	77	10	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.: 680-87218-2

SDG No.: 68087218-2

Lab File ID: 1AB14005.D Lab Sample ID: MB 660-134426/1-A

Matrix: Solid Date Extracted: 02/13/2013 10:32

Instrument ID: BSMA5973 Date Analyzed: 02/14/2013 10:51

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134426/2-A	1AB14006.D	02/14/2013 11:07
CV0748I-CS	680-87218-21	1AB14007.D	02/14/2013 11:22
CV0748J-CS	680-87218-22	1AB14008.D	02/14/2013 11:37
CV0748J-CS MS	680-87218-22 MS	1AB14009.D	02/14/2013 11:52
CV0748J-CS MSD	680-87218-22 MSD	1AB14010.D	02/14/2013 12:07
CV0748K-CS	680-87218-23	1AB14011.D	02/14/2013 12:22
CV0748L-CS	680-87218-24	1AB14012.D	02/14/2013 12:38
CV0748M-CS	680-87218-25	1AB14013.D	02/14/2013 12:53
CV0748N-CS	680-87218-26	1AB14014.D	02/14/2013 13:08
CV0748O-CS	680-87218-27	1AB14015.D	02/14/2013 13:23
CV0748P-CS	680-87218-28	1AB14016.D	02/14/2013 13:38
CV0748Q-CS	680-87218-29	1AB14017.D	02/14/2013 13:53
CV0748R-CS	680-87218-30	1AB14018.D	02/14/2013 14:08
CV0748S-CS	680-87218-31	1AB14019.D	02/14/2013 14:23
CV0748T-CS	680-87218-32	1AB14020.D	02/14/2013 14:38
CV0748U-CS	680-87218-33	1AB14021.D	02/14/2013 14:53
CV0748V-CS	680-87218-34	1AB14022.D	02/14/2013 15:08
CV0439A-CS	680-87218-35	1AB14023.D	02/14/2013 15:24
CV0439A-CSD	680-87218-36	1AB14024.D	02/14/2013 15:39
CV0439B-CS	680-87218-37	1AB14025.D	02/14/2013 15:54
CV0467A-CS	680-87218-38	1AB14026.D	02/14/2013 16:09
CV0673A-CS	680-87218-39	1AB14027.D	02/14/2013 16:24
CV0673B-CS	680-87218-40	1AB14028.D	02/14/2013 16:39

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

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

Instrument ID: BSMA5973 DFTPP Injection Time: 11:20

Analysis Batch No.: 133924

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

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

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

Instrument ID: BSMA5973 DFTPP Injection Time: 09:58

Analysis Batch No.: 134523

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

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134523/3	1AB14003.D	02/14/2013	10:21
	MB 660-134426/1-A	1AB14005.D	02/14/2013	10:51
	LCS 660-134426/2-A	1AB14006.D	02/14/2013	11:07
CV0748I-CS	680-87218-21	1AB14007.D	02/14/2013	11:22
CV0748J-CS	680-87218-22	1AB14008.D	02/14/2013	11:37
CV0748J-CS MS	680-87218-22 MS	1AB14009.D	02/14/2013	11:52
CV0748J-CS MSD	680-87218-22 MSD	1AB14010.D	02/14/2013	12:07
CV0748K-CS	680-87218-23	1AB14011.D	02/14/2013	12:22
CV0748L-CS	680-87218-24	1AB14012.D	02/14/2013	12:38
CV0748M-CS	680-87218-25	1AB14013.D	02/14/2013	12:53
CV0748N-CS	680-87218-26	1AB14014.D	02/14/2013	13:08
CV0748O-CS	680-87218-27	1AB14015.D	02/14/2013	13:23
CV0748P-CS	680-87218-28	1AB14016.D	02/14/2013	13:38
CV0748Q-CS	680-87218-29	1AB14017.D	02/14/2013	13:53
CV0748R-CS	680-87218-30	1AB14018.D	02/14/2013	14:08
CV0748S-CS	680-87218-31	1AB14019.D	02/14/2013	14:23
CV0748T-CS	680-87218-32	1AB14020.D	02/14/2013	14:38
CV0748U-CS	680-87218-33	1AB14021.D	02/14/2013	14:53
CV0748V-CS	680-87218-34	1AB14022.D	02/14/2013	15:08
CV0439A-CS	680-87218-35	1AB14023.D	02/14/2013	15:24
CV0439A-CSD	680-87218-36	1AB14024.D	02/14/2013	15:39
CV0439B-CS	680-87218-37	1AB14025.D	02/14/2013	15:54
CV0467A-CS	680-87218-38	1AB14026.D	02/14/2013	16:09

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

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

Instrument ID: BSMA5973 DFTPP Injection Time: 09:58

Analysis Batch No.: 134523

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

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CV0673A-CS	680-87218-39	1AB14027.D	02/14/2013	16:24
CV0673B-CS	680-87218-40	1AB14028.D	02/14/2013	16:39

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

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

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

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

Calibration ID: 2712

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

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

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

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

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

Calibration ID: 2712

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

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

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

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

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

Calibration ID: 2712

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		982183	2.43	604288	3.46	878194	4.40
UPPER LIMIT		1964366	2.93	1208576	3.96	1756388	4.90
LOWER LIMIT		491092	1.93	302144	2.96	439097	3.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134426/1-A		1212314	2.43	752354	3.46	1123108	4.40
LCS 660-134426/2-A		1140928	2.43	757377	3.46	1123456	4.41
680-87218-21	CV0748I-CS	916268	2.43	576386	3.46	779775	4.40
680-87218-22	CV0748J-CS	978980	2.43	569940	3.46	820496	4.40
680-87218-22 MS	CV0748J-CS MS	966187	2.43	598683	3.46	849793	4.40
680-87218-22 MSD	CV0748J-CS MSD	834171	2.43	492546	3.46	721173	4.40
680-87218-23	CV0748K-CS	870816	2.43	537066	3.46	726016	4.40
680-87218-24	CV0748L-CS	859918	2.43	506692	3.46	684281	4.40
680-87218-25	CV0748M-CS	865718	2.43	511950	3.46	689857	4.40
680-87218-26	CV0748N-CS	858190	2.43	518840	3.46	701099	4.40
680-87218-27	CV0748O-CS	837235	2.43	503303	3.46	683539	4.41
680-87218-28	CV0748P-CS	895151	2.43	536812	3.46	755631	4.40
680-87218-29	CV0748Q-CS	907921	2.43	550369	3.46	763331	4.40
680-87218-30	CV0748R-CS	882744	2.43	519610	3.46	701342	4.40
680-87218-31	CV0748S-CS	860246	2.43	500678	3.46	684842	4.40
680-87218-32	CV0748T-CS	802215	2.43	509530	3.46	719695	4.41
680-87218-33	CV0748U-CS	827172	2.43	509068	3.46	689963	4.41
680-87218-34	CV0748V-CS	881188	2.43	561617	3.46	746490	4.41
680-87218-35	CV0439A-CS	931111	2.44	558150	3.46	768979	4.41
680-87218-36	CV0439A-CSD	855084	2.43	550030	3.46	744775	4.41
680-87218-37	CV0439B-CS	787862	2.43	473590	3.46	663362	4.41
680-87218-38	CV0467A-CS	759260	2.44	507565	3.47	499480	4.42
680-87218-39	CV0673A-CS	786572	2.44	534263	3.47	691521	4.41
680-87218-40	CV0673B-CS	877868	2.44	554217	3.46	753638	4.41

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

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

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

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

Calibration ID: 2712

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		720127	6.43	750593	7.53		
UPPER LIMIT		1440254	6.93	1501186	8.03		
LOWER LIMIT		360064	5.93	375297	7.03		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134426/1-A		893196	6.42	908572	7.52		
LCS 660-134426/2-A		845768	6.43	899339	7.52		
680-87218-21	CV0748I-CS	463548	6.42	422587	7.52		
680-87218-22	CV0748J-CS	603574	6.42	563047	7.52		
680-87218-22 MS	CV0748J-CS MS	528526	6.42	510283	7.52		
680-87218-22 MSD	CV0748J-CS MSD	447979	6.42	449415	7.52		
680-87218-23	CV0748K-CS	416156	6.42	494241	7.52		
680-87218-24	CV0748L-CS	427754	6.43	509699	7.52		
680-87218-25	CV0748M-CS	524199	6.43	684243	7.53		
680-87218-26	CV0748N-CS	430139	6.43	556254	7.53		
680-87218-27	CV0748O-CS	481657	6.43	551487	7.53		
680-87218-28	CV0748P-CS	533268	6.43	557229	7.53		
680-87218-29	CV0748Q-CS	566786	6.43	528533	7.53		
680-87218-30	CV0748R-CS	525060	6.43	535016	7.53		
680-87218-31	CV0748S-CS	503262	6.43	600121	7.53		
680-87218-32	CV0748T-CS	501873	6.43	586119	7.53		
680-87218-33	CV0748U-CS	526723	6.43	601775	7.53		
680-87218-34	CV0748V-CS	532581	6.43	579668	7.53		
680-87218-35	CV0439A-CS	582351	6.43	600983	7.53		
680-87218-36	CV0439A-CSD	584041	6.43	549053	7.53		
680-87218-37	CV0439B-CS	1067135	6.47	1429080	7.61		
680-87218-38	CV0467A-CS	508399	6.45	713964	7.55		
680-87218-39	CV0673A-CS	505226	6.44	660043	7.54		
680-87218-40	CV0673B-CS	494722	6.44	642860	7.54		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748I-CS | Lab Sample ID: 680-87218-21

Matrix: Solid | Lab File ID: 1AB14007.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:00

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.07(g) | Date Analyzed: 02/14/2013 11:22

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

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

% Moisture: 21.5 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	6.6	J	51	6.3
120-12-7	Anthracene	17		11	5.3
56-55-3	Benzo[a]anthracene	110		10	4.9
50-32-8	Benzo[a]pyrene	74		13	6.6
205-99-2	Benzo[b]fluoranthene	120		15	7.7
191-24-2	Benzo[g,h,i]perylene	64		25	5.6
207-08-9	Benzo[k]fluoranthene	41		10	4.6
218-01-9	Chrysene	110		11	5.7
53-70-3	Dibenz(a,h)anthracene	19	J	25	5.2
206-44-0	Fluoranthene	160		25	5.1
86-73-7	Fluorene	6.3	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	63		25	9.0
90-12-0	1-Methylnaphthalene	25	J	51	5.6
91-57-6	2-Methylnaphthalene	39	J	51	9.0
91-20-3	Naphthalene	30	J	51	5.6
85-01-8	Phenanthrene	96		10	4.9
129-00-0	Pyrene	160		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14007.D
Lab Smp Id: 680-87218-A-21-A Client Smp ID: CV0748I-CS
Inj Date : 14-FEB-2013 11:22
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-21-a
Misc Info : 680-87218-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	21.466	% 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	2.429	2.430	(1.000)	916268	40.0000	
* 6 Acenaphthene-d10	164	3.455	3.461	(1.000)	576386	40.0000	
* 10 Phenanthrene-d10	188	4.400	4.402	(1.000)	779775	40.0000	
$ 14 o-Terphenyl	230	4.678	4.685	(1.063)	80256	7.08315	598.4881
* 18 Chrysene-d12	240	6.420	6.426	(1.000)	463548	40.0000	
* 23 Perylene-d12	264	7.515	7.527	(1.000)	422587	40.0000	
2 Naphthalene	128	2.440	2.441	(1.004)	7883	0.35445	29.9492(Q)
3 2-Methylnaphthalene	141	2.840	2.847	(1.169)	5561	0.46675	39.4374
4 1-Methylnaphthalene	142	2.899	2.900	(1.194)	4057	0.30081	25.4165
5 Acenaphthylene	152	3.369	3.371	(0.975)	1993	0.07831	6.6167
9 Fluorene	166	3.786	3.787	(1.096)	1287	0.07430	6.2782
11 Phenanthrene	178	4.411	4.418	(1.002)	24278	1.14028	96.3478
12 Anthracene	178	4.448	4.455	(1.011)	4278	0.19707	16.6516
13 Carbazole	167	4.603	4.610	(1.046)	4104	0.22056	18.6357

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.276	5.283	(1.199)	39606	1.87627	158.5346
16 Pyrene	202	5.447	5.454	(0.849)	31307	1.87008	158.0113
17 Benzo(a)anthracene	228	6.414	6.416	(0.999)	17941	1.29623	109.5243
19 Chrysene	228	6.436	6.448	(1.002)	17210	1.27566	107.7864
20 Benzo(b)fluoranthene	252	7.237	7.244	(0.963)	16482	1.39743	118.0753(M)
21 Benzo(k)fluoranthene	252	7.248	7.265	(0.964)	6010	0.48737	41.1799(QM)
22 Benzo(a)pyrene	252	7.467	7.479	(0.994)	9773	0.87257	73.7275
24 Indeno(1,2,3-cd)pyrene	276	8.257	8.275	(1.099)	6585	0.74457	62.9121(M)
25 Dibenzo(a,h)anthracene	278	8.268	8.291	(1.100)	2001	0.22632	19.1228
26 Benzo(g,h,i)perylene	276	8.471	8.494	(1.127)	6890	0.75199	63.5388

QC Flag Legend

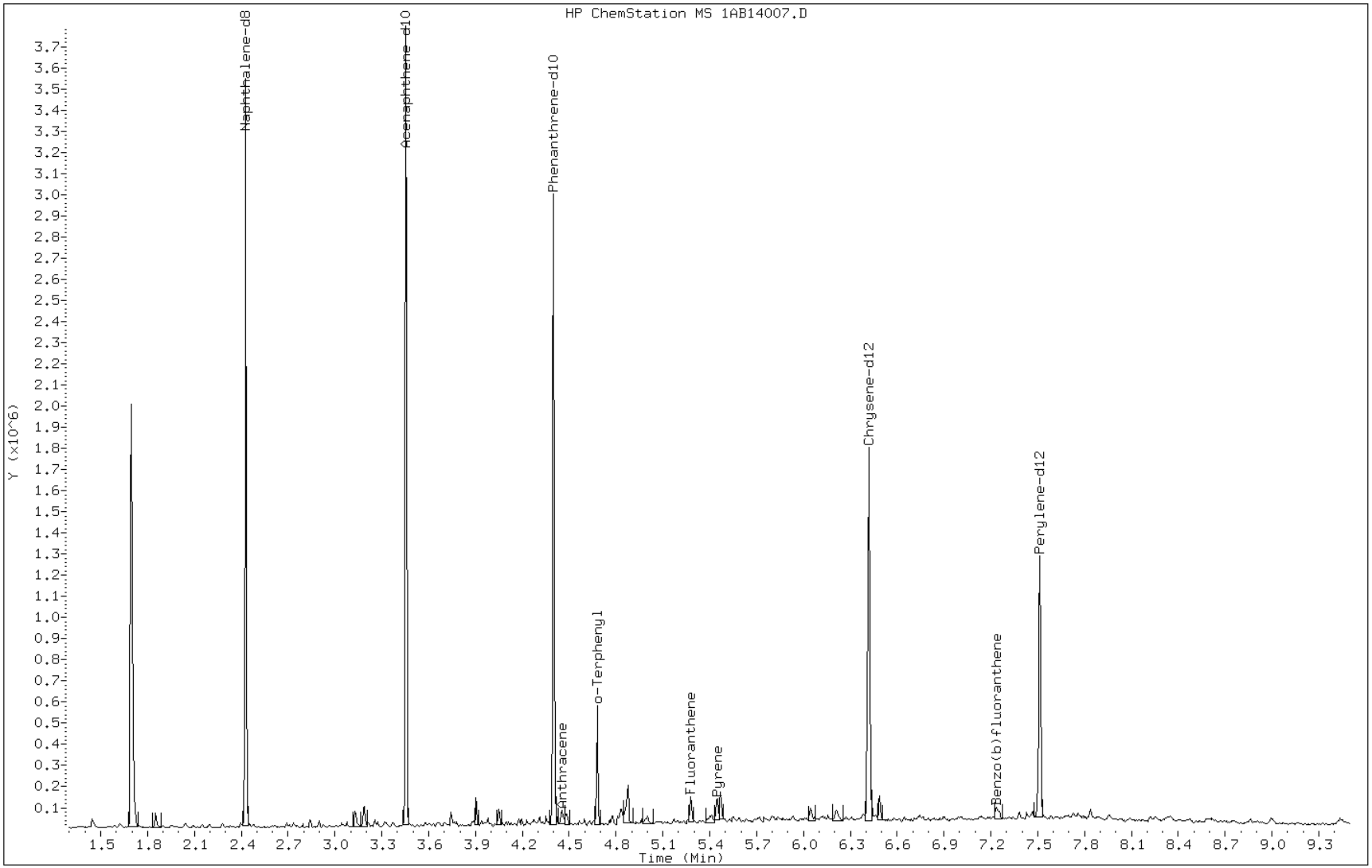
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a | Operator: SCC



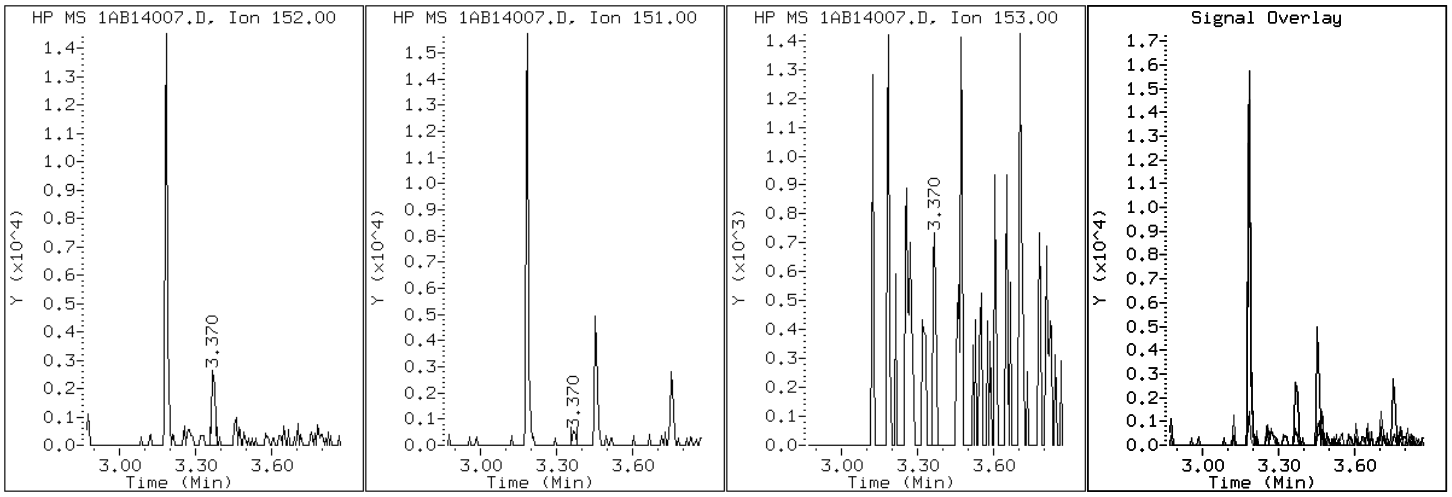
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

5 Acenaphthylene



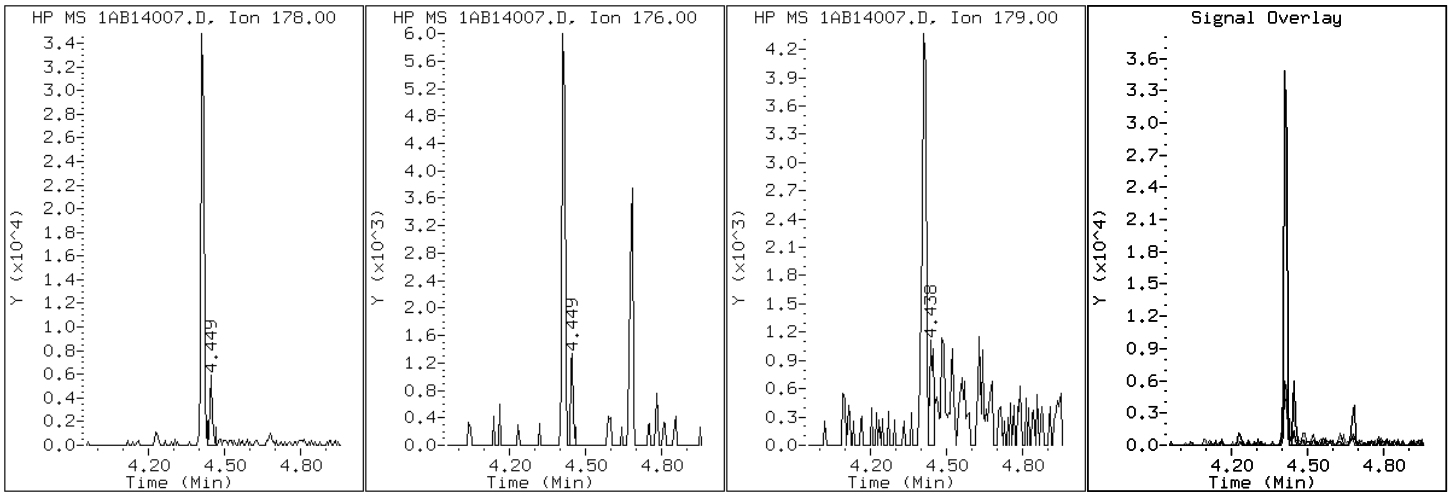
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

12 Anthracene



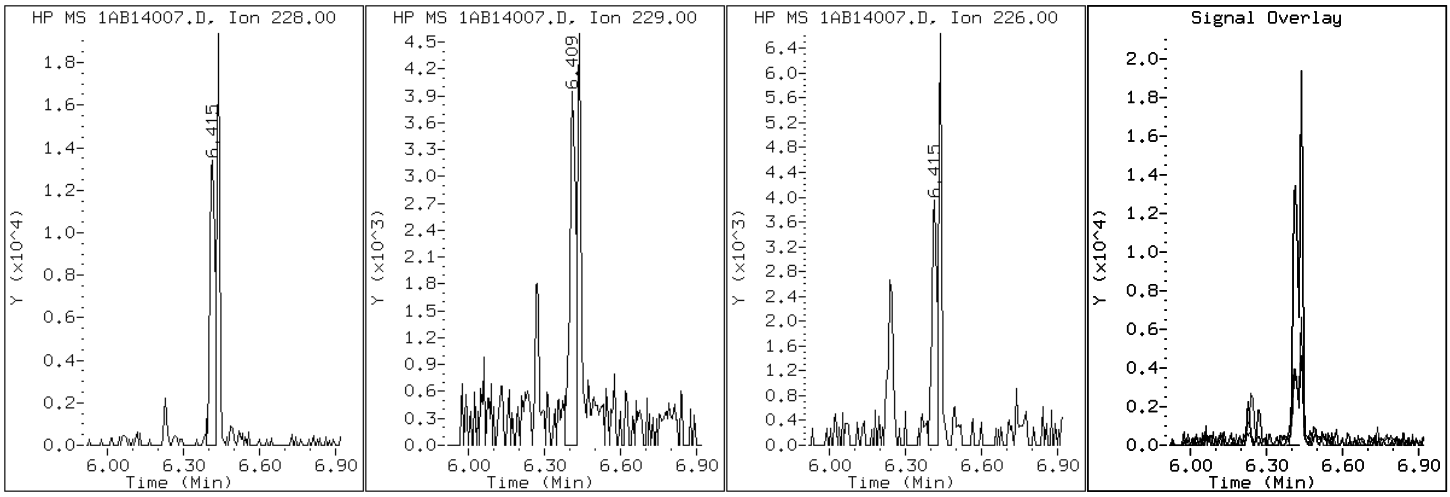
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

17 Benzo(a)anthracene



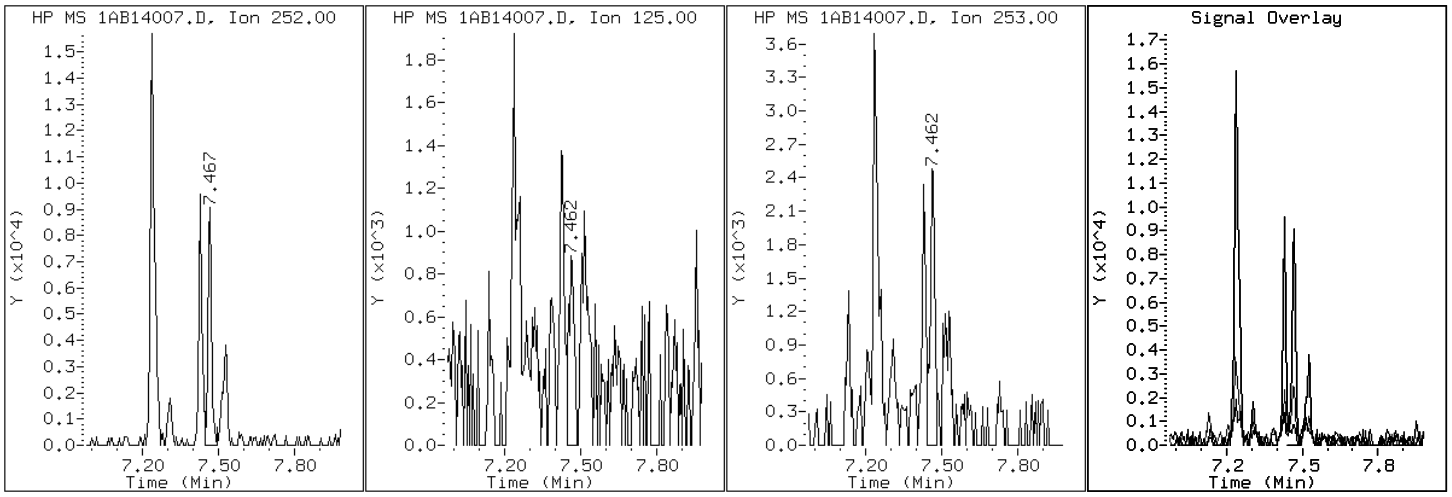
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

22 Benzo(a)pyrene



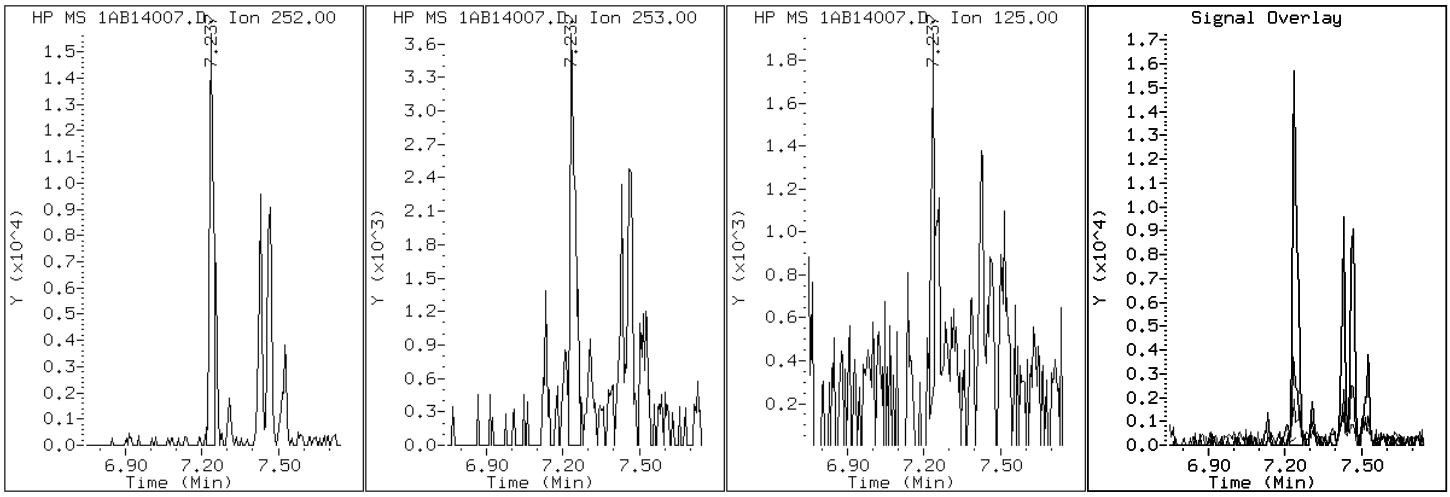
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

20 Benzo(b)fluoranthene



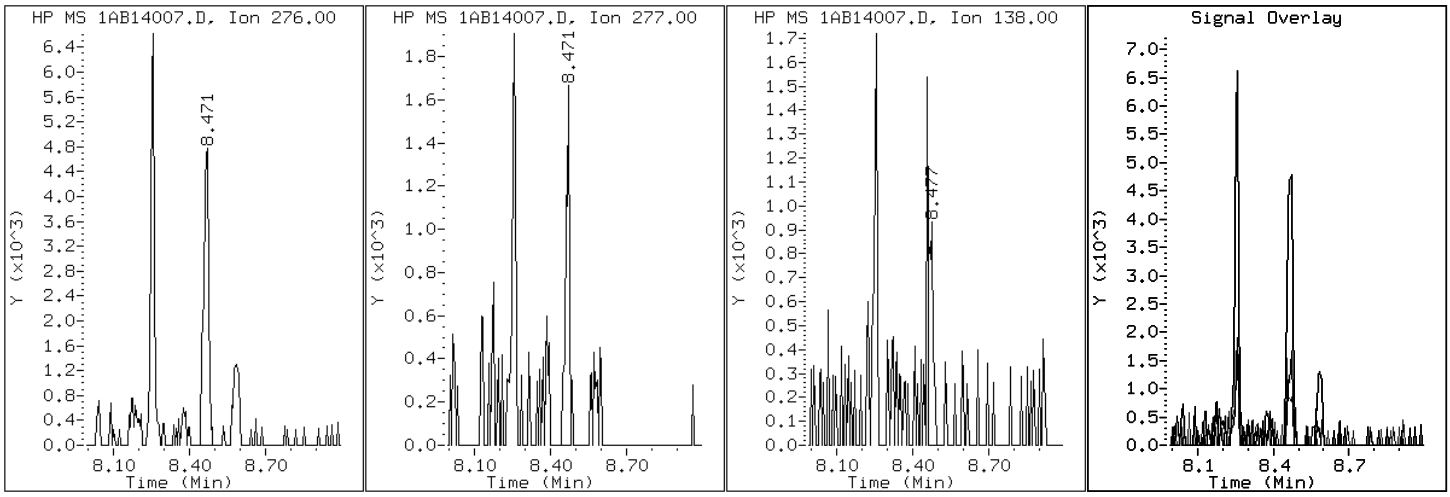
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

26 Benzo(g,h,i)perylene



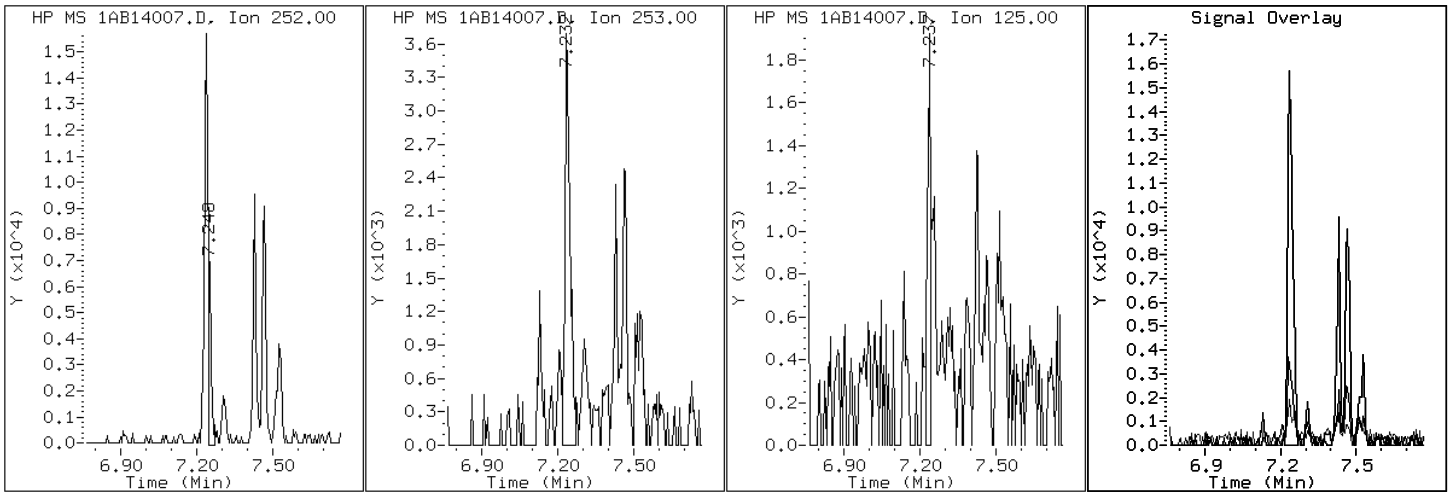
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

21 Benzo(k)fluoranthene



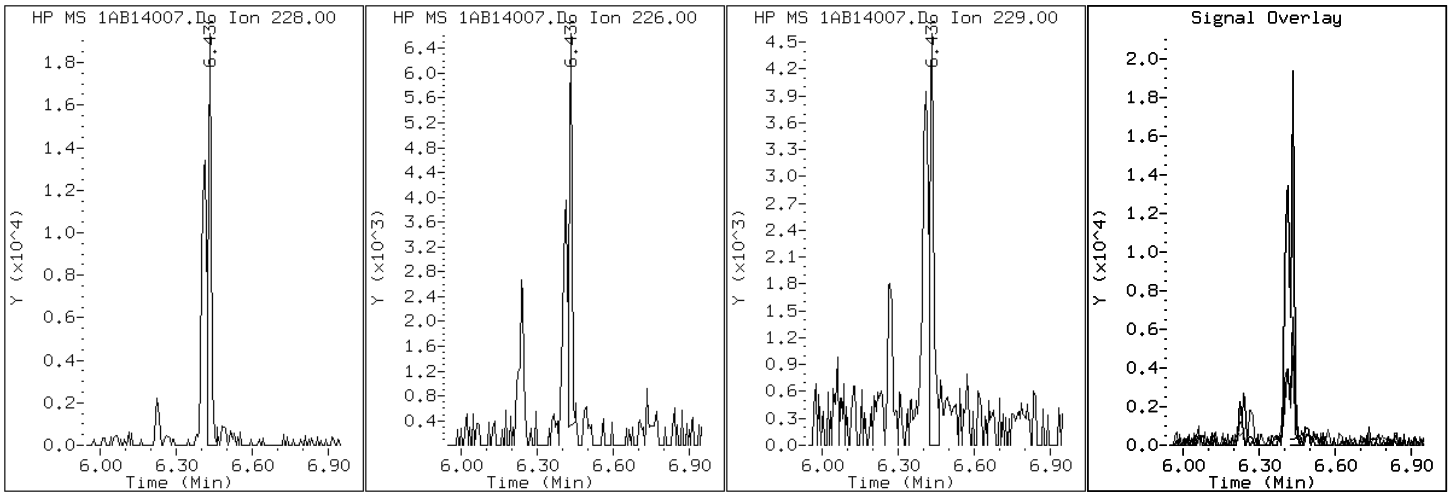
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

19 Chrysene



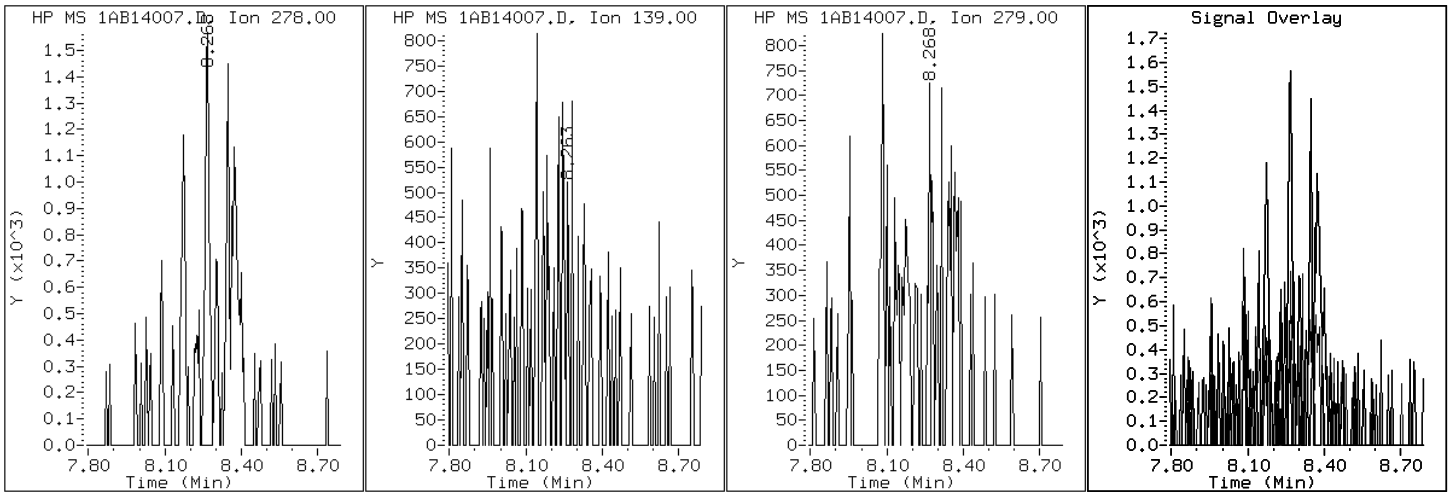
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

25 Dibenzo(a,h)anthracene



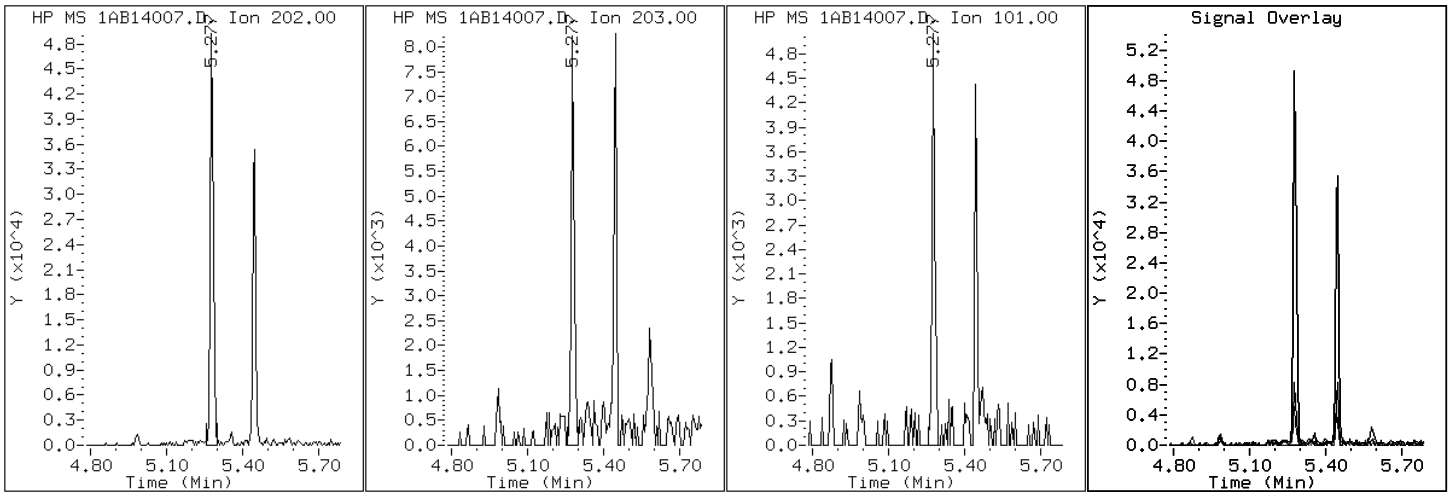
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

15 Fluoranthene



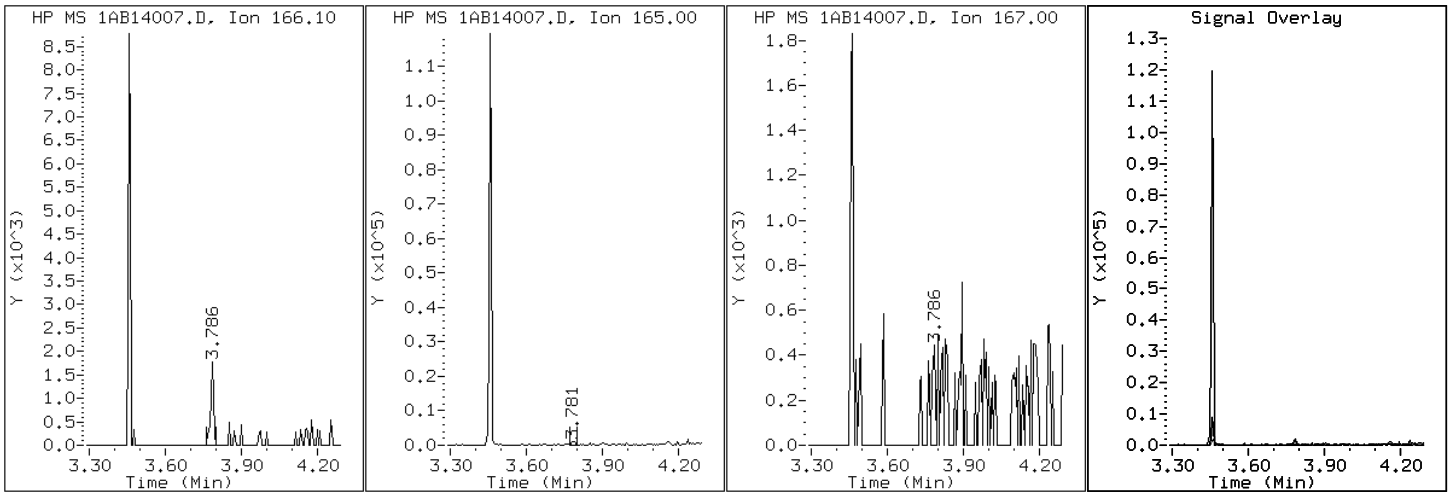
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

9 Fluorene



Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

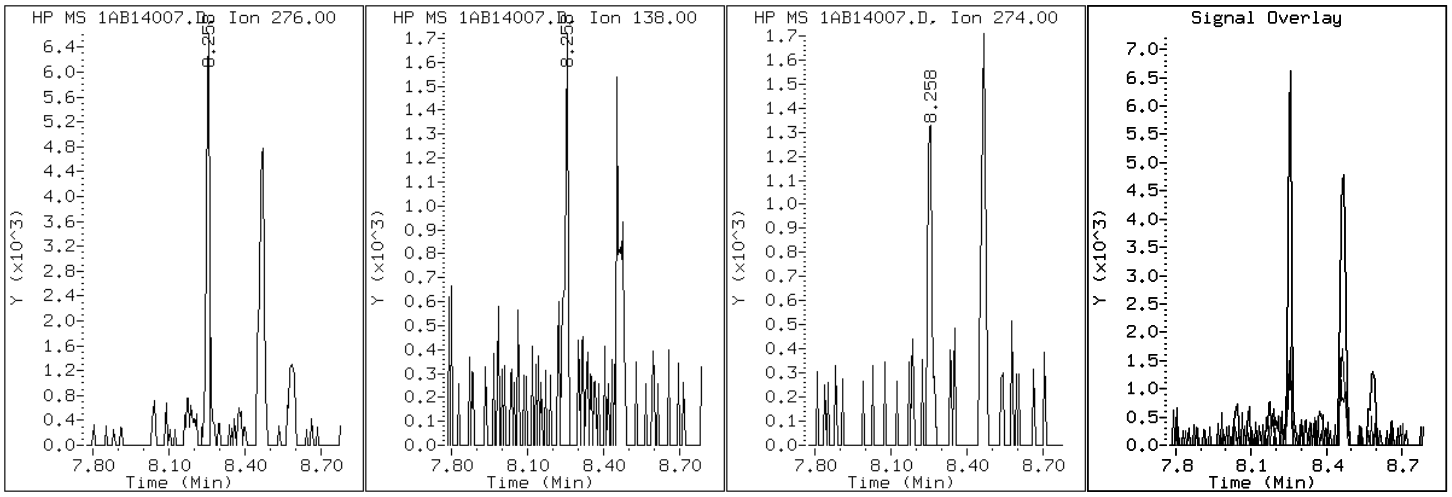
Client ID: CV0748I-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a

Operator: SCC

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



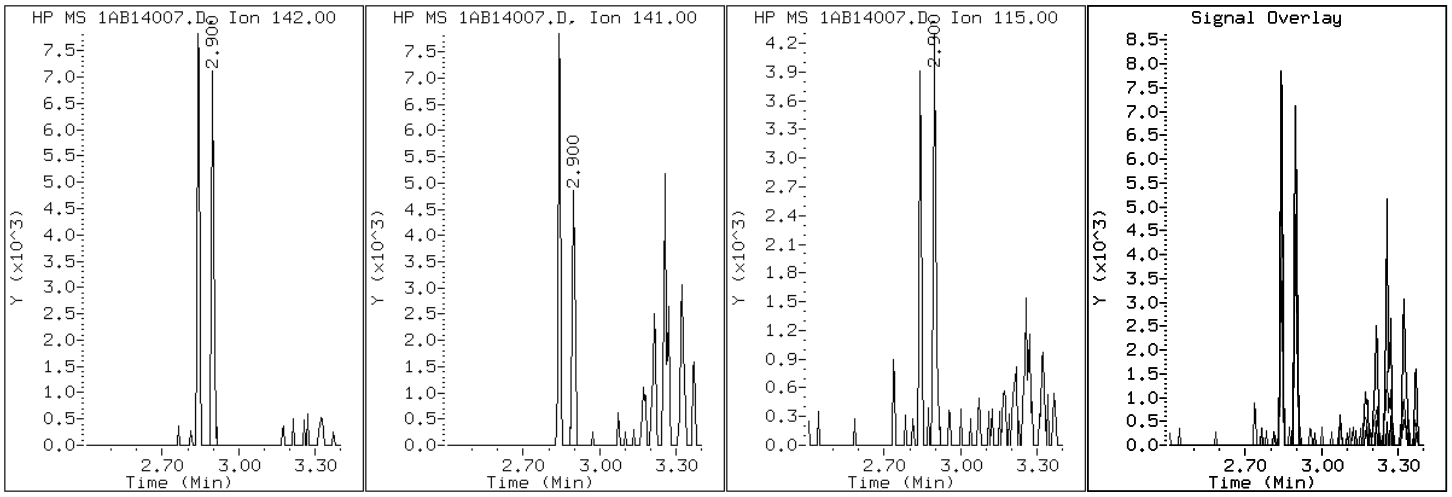
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

4 1-Methylnaphthalene



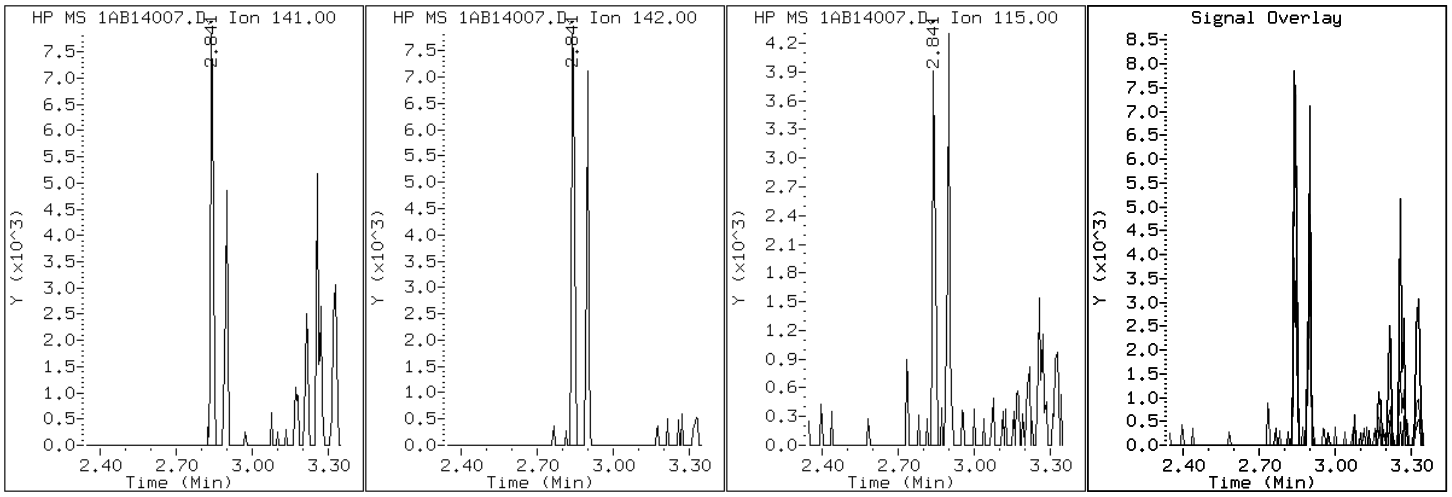
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

3 2-Methylnaphthalene



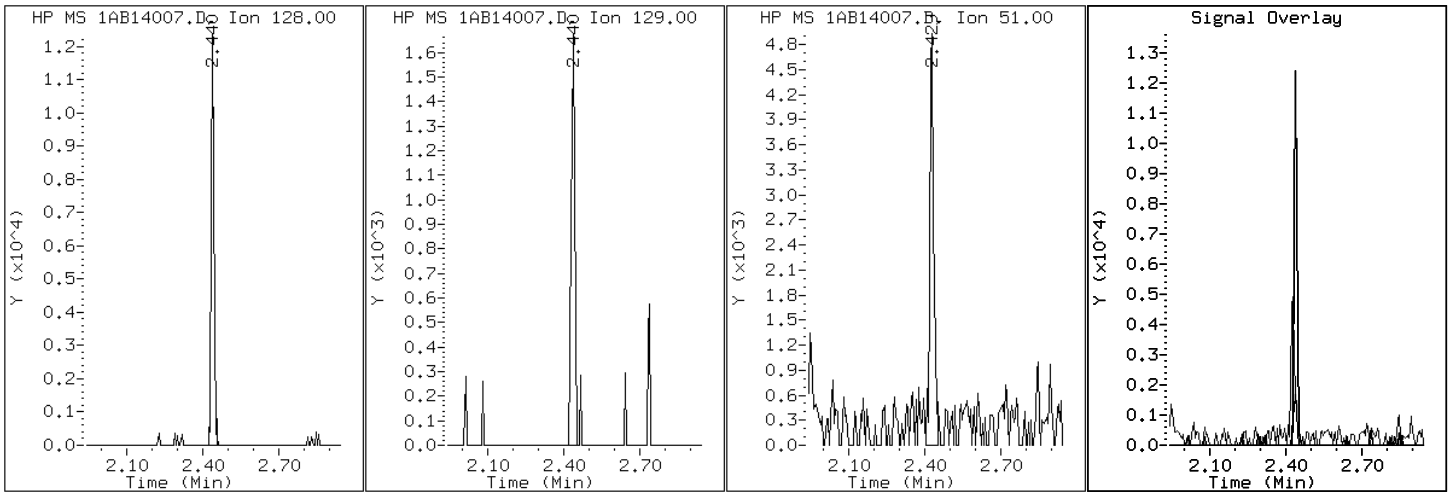
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

2 Naphthalene



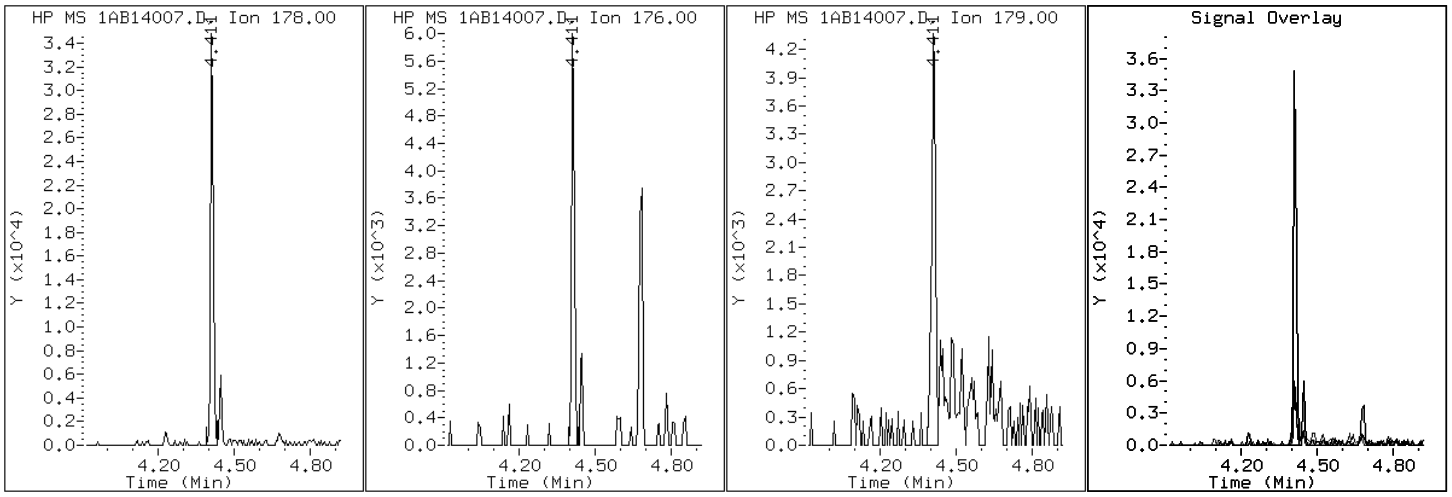
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

11 Phenanthrene



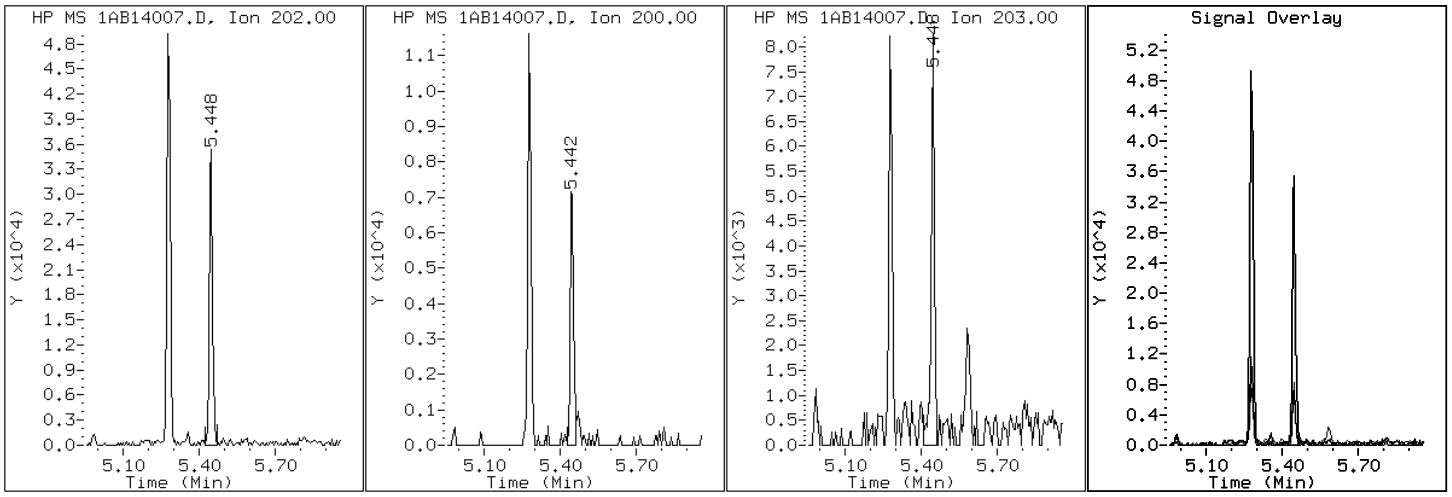
Data File: 1AB14007.D

Date: 14-FEB-2013 11:22

Client ID: CV0748I-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-21-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14007.D
Inj. Date and Time: 14-FEB-2013 11:22
Instrument ID: BSMA5973.i
Client ID: CV0748I-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

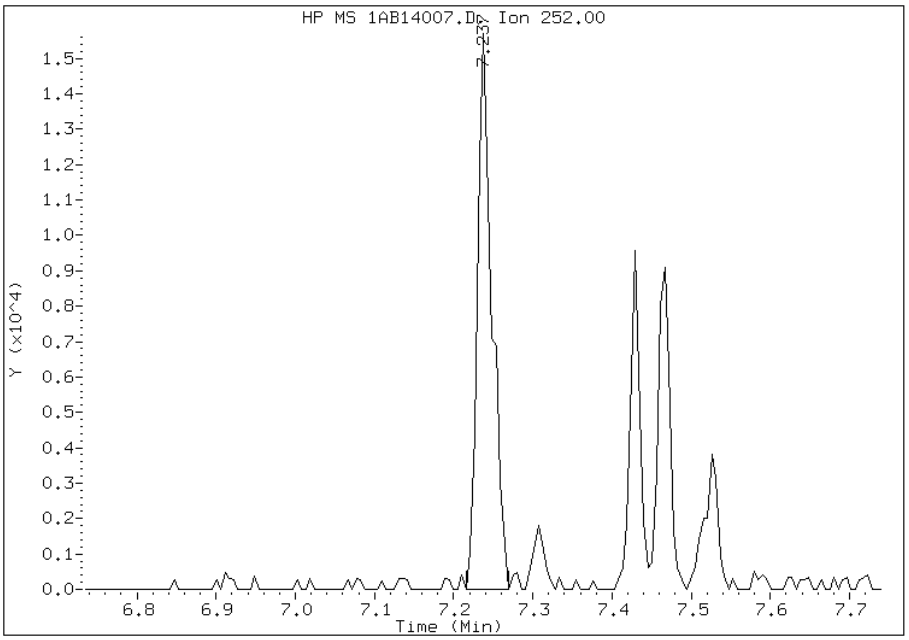
Processing Integration Results

RT: 7.24

Response: 20074

Amount: 2

Conc: 144



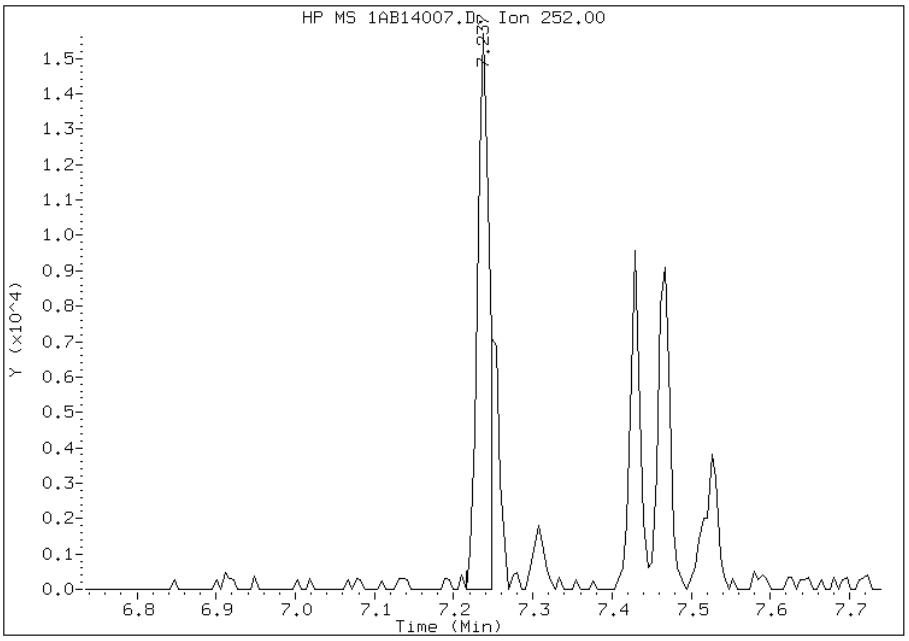
Manual Integration Results

RT: 7.24

Response: 16482

Amount: 1

Conc: 118



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14007.D
Inj. Date and Time: 14-FEB-2013 11:22
Instrument ID: BSMA5973.i
Client ID: CV0748I-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

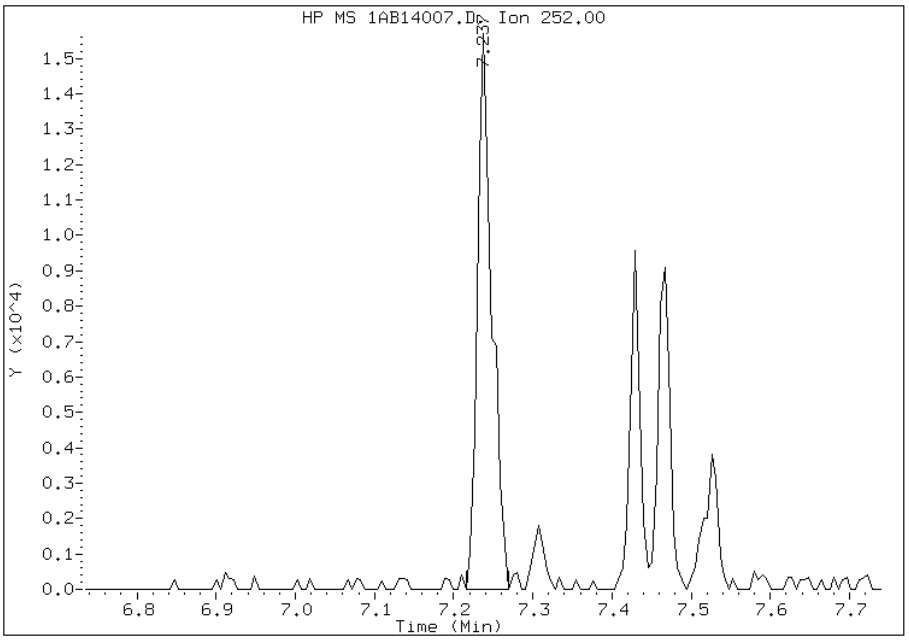
Processing Integration Results

RT: 7.24

Response: 20074

Amount: 2

Conc: 138



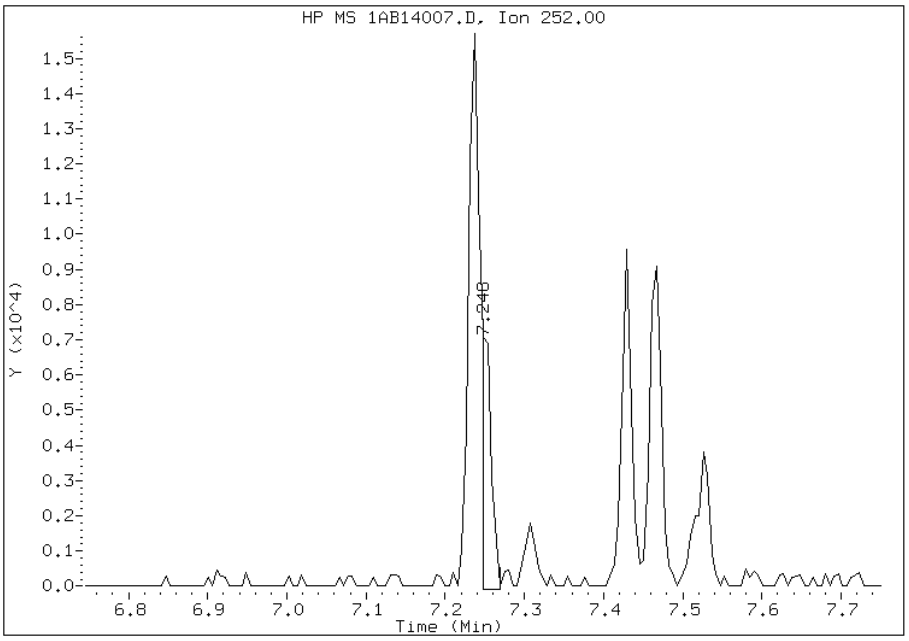
Manual Integration Results

RT: 7.25

Response: 6010

Amount: 0

Conc: 41



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14007.D
Inj. Date and Time: 14-FEB-2013 11:22
Instrument ID: BSMA5973.i
Client ID: CV0748I-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

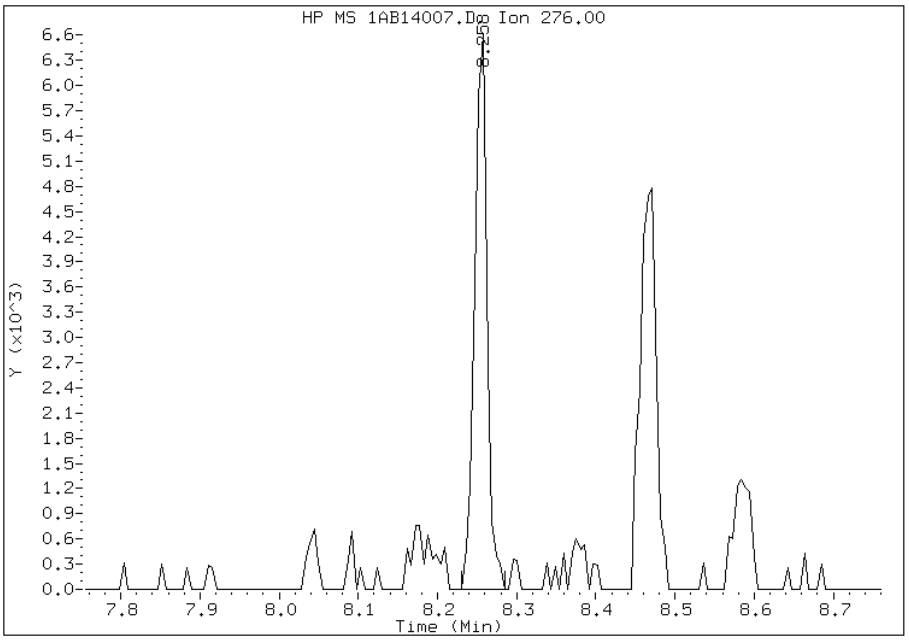
Processing Integration Results

RT: 8.26

Response: 7067

Amount: 1

Conc: 68



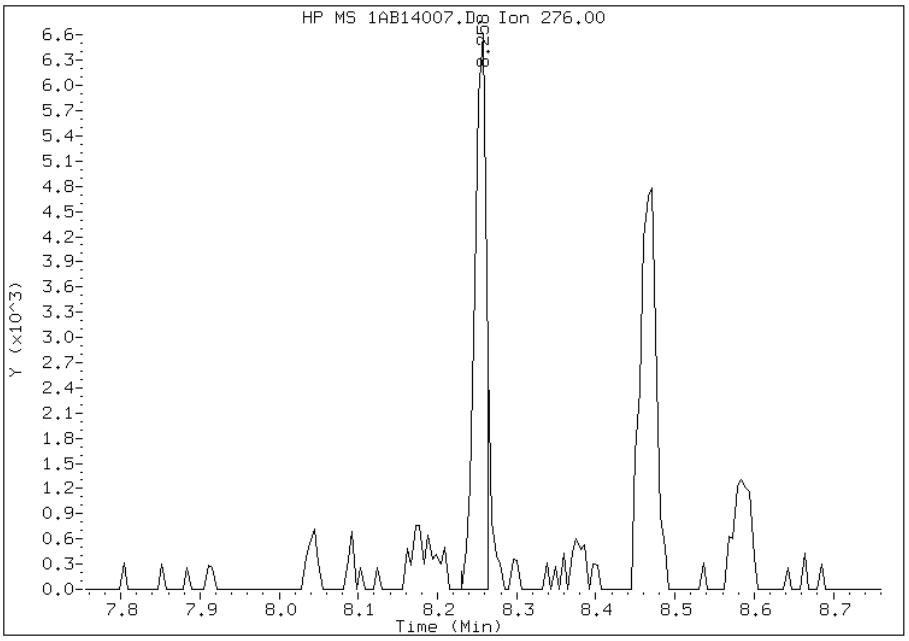
Manual Integration Results

RT: 8.26

Response: 6585

Amount: 1

Conc: 63



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748J-CS | Lab Sample ID: 680-87218-22

Matrix: Solid | Lab File ID: 1AB14008.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:18

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.05(g) | Date Analyzed: 02/14/2013 11:37

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

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

% Moisture: 16.7 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	6.0
120-12-7	Anthracene	13		10	5.0
56-55-3	Benzo[a]anthracene	85		9.6	4.7
50-32-8	Benzo[a]pyrene	59		12	6.2
205-99-2	Benzo[b]fluoranthene	91		15	7.3
191-24-2	Benzo[g,h,i]perylene	64		24	5.3
207-08-9	Benzo[k]fluoranthene	48		9.6	4.3
218-01-9	Chrysene	85		11	5.4
53-70-3	Dibenz(a,h)anthracene	19	J	24	4.9
206-44-0	Fluoranthene	180		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	57		24	8.5
90-12-0	1-Methylnaphthalene	5.8	J	48	5.3
91-57-6	2-Methylnaphthalene	48	U	48	8.5
91-20-3	Naphthalene	7.5	J	48	5.3
85-01-8	Phenanthrene	110		9.6	4.7
129-00-0	Pyrene	150		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14008.D
Lab Smp Id: 680-87218-A-22-A Client Smp ID: CV0748J-CS
Inj Date : 14-FEB-2013 11:37
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-22-a
Misc Info : 680-87218-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	16.697	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.431	2.430	(1.000)	978980	40.0000	
* 6 Acenaphthene-d10	164	3.456	3.461	(1.000)	569940	40.0000	
* 10 Phenanthrene-d10	188	4.402	4.402	(1.000)	820496	40.0000	
$ 14 o-Terphenyl	230	4.680	4.685	(1.063)	86240	7.23354	576.9722
* 18 Chrysene-d12	240	6.421	6.426	(1.000)	603574	40.0000	
* 23 Perylene-d12	264	7.516	7.527	(1.000)	563047	40.0000	
2 Naphthalene	128	2.436	2.441	(1.002)	2241	0.09431	7.5224(Q)
4 1-Methylnaphthalene	142	2.901	2.900	(1.193)	1050	0.07287	5.8119
11 Phenanthrene	178	4.413	4.418	(1.002)	31216	1.39338	111.1410
12 Anthracene	178	4.450	4.455	(1.011)	3761	0.16466	13.1337
13 Carbazole	167	4.605	4.610	(1.046)	4688	0.23944	19.0983
15 Fluoranthene	202	5.278	5.283	(1.199)	49933	2.24810	179.3159
16 Pyrene	202	5.444	5.454	(0.848)	39775	1.82470	145.5447
17 Benzo(a)anthracene	228	6.416	6.416	(0.999)	19168	1.06359	84.8360

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.437	6.448	(1.002)	18804	1.07046	85.3833
20 Benzo(b)fluoranthene	252	7.239	7.244	(0.963)	17909	1.13963	90.9007(M)
21 Benzo(k)fluoranthene	252	7.244	7.265	(0.964)	9799	0.59640	47.5707(M)
22 Benzo(a)pyrene	252	7.463	7.479	(0.993)	11098	0.74369	59.3189
24 Indeno(1,2,3-cd)pyrene	276	8.254	8.275	(1.098)	8418	0.71438	56.9815(M)
25 Dibenzo(a,h)anthracene	278	8.264	8.291	(1.099)	2810	0.23854	19.0264
26 Benzo(g,h,i)perylene	276	8.462	8.494	(1.126)	9771	0.80039	63.8419

QC Flag Legend

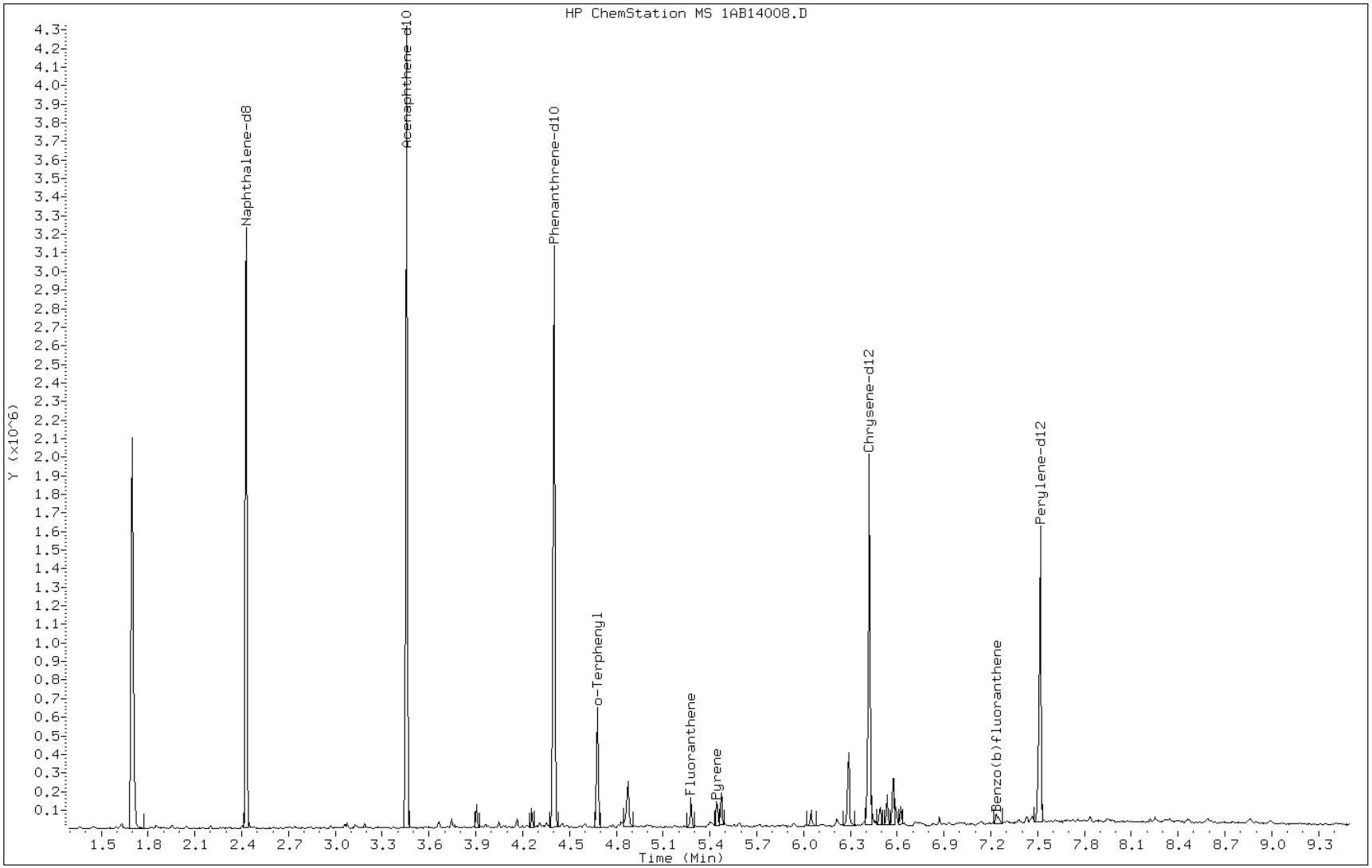
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a | Operator: SCC



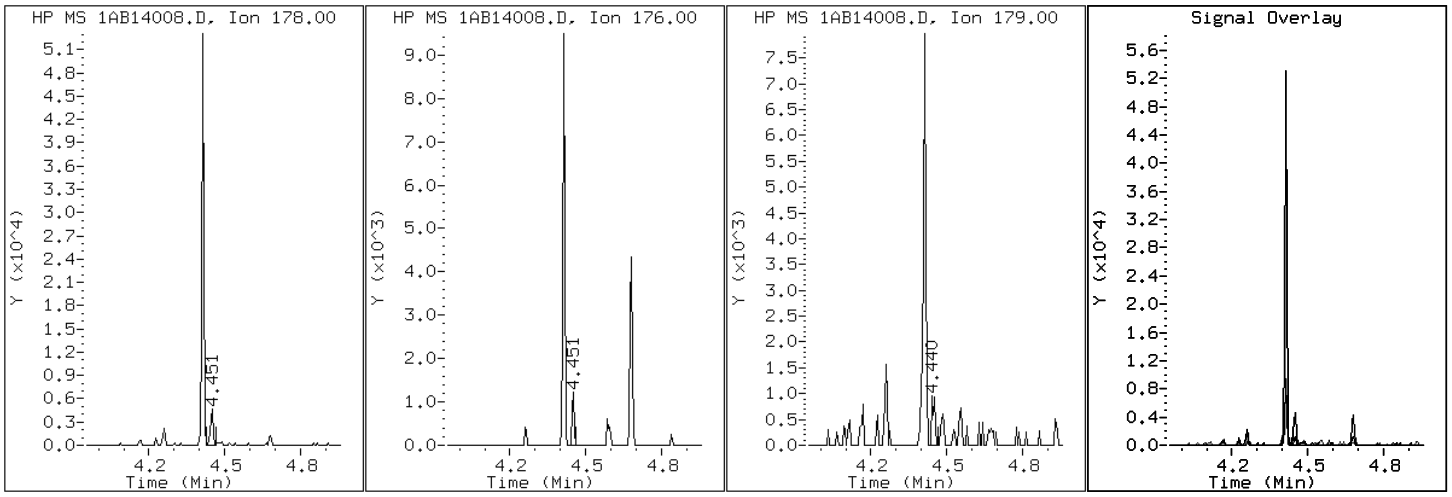
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

12 Anthracene



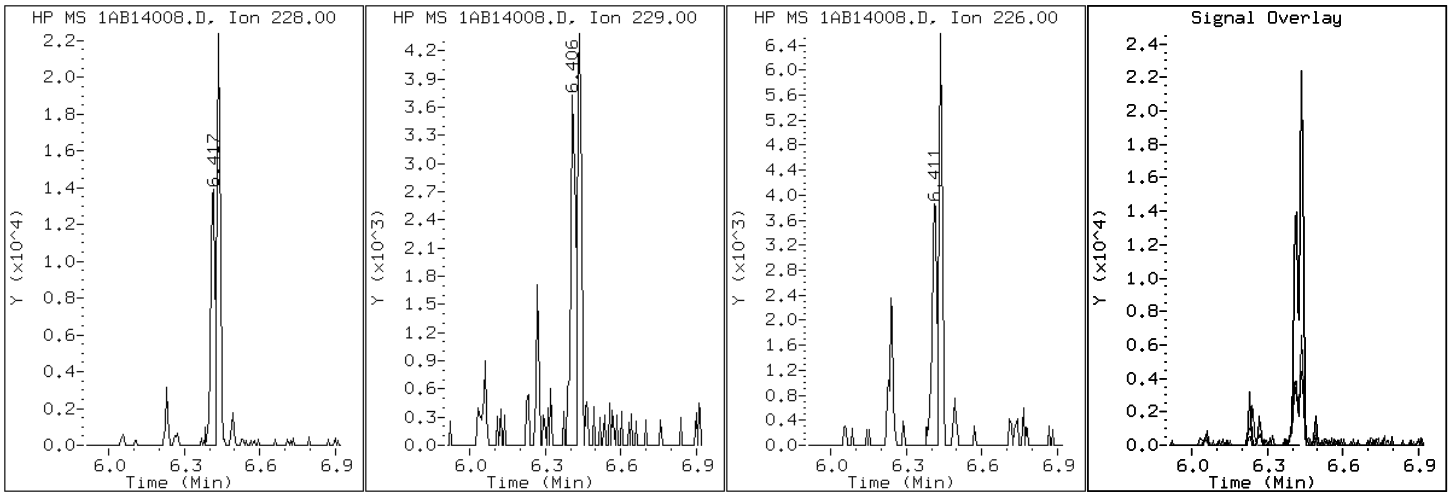
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

17 Benzo(a)anthracene



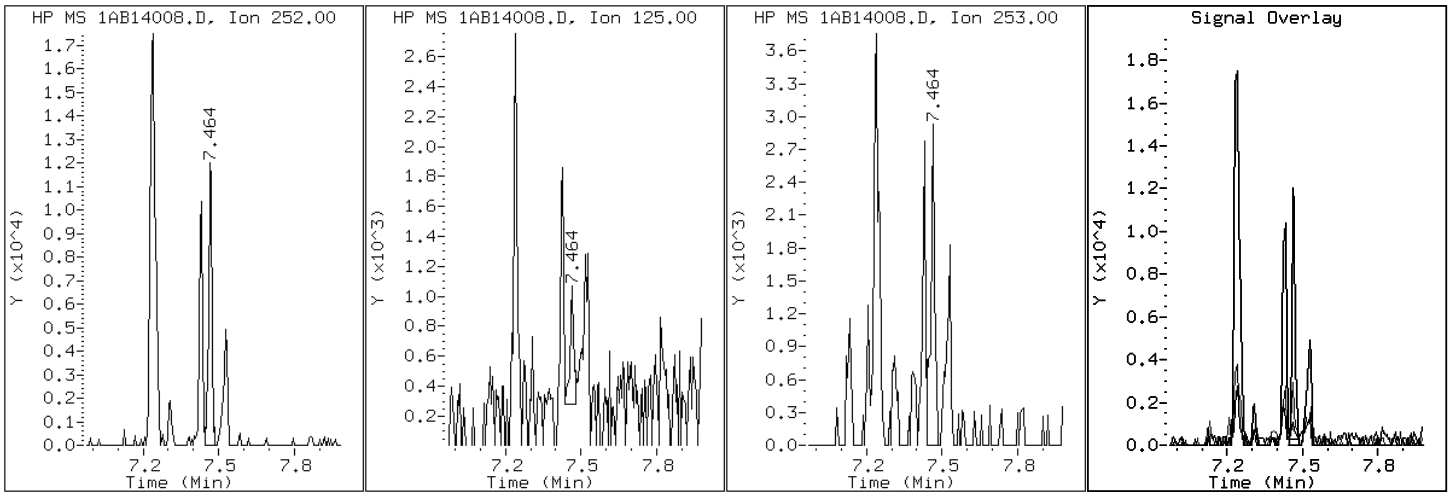
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

22 Benzo(a)pyrene



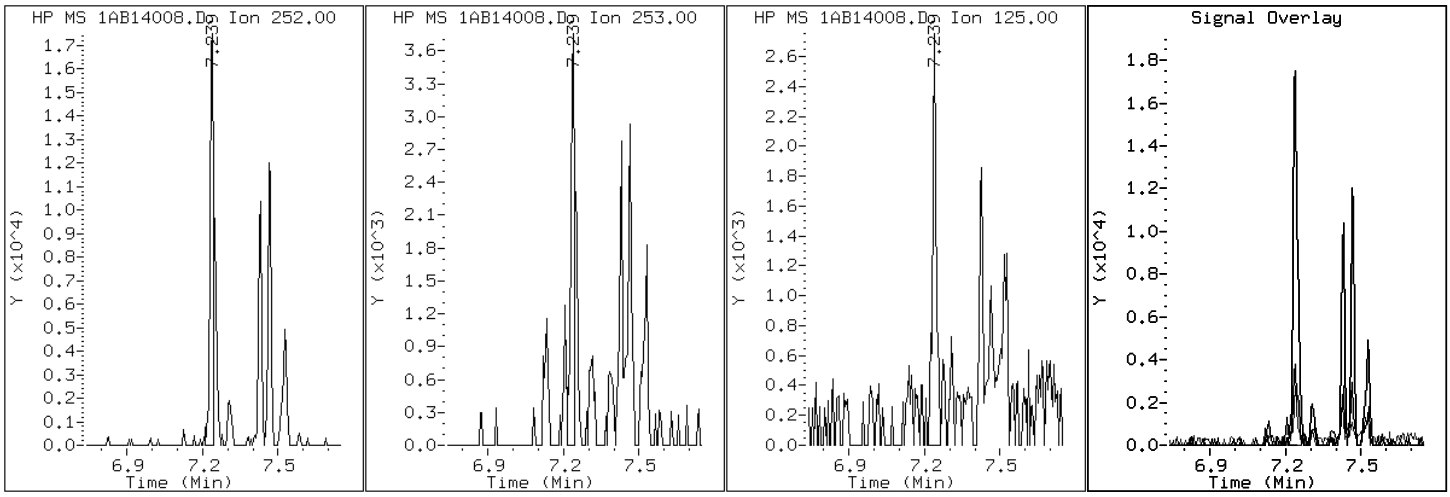
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

20 Benzo(b)fluoranthene



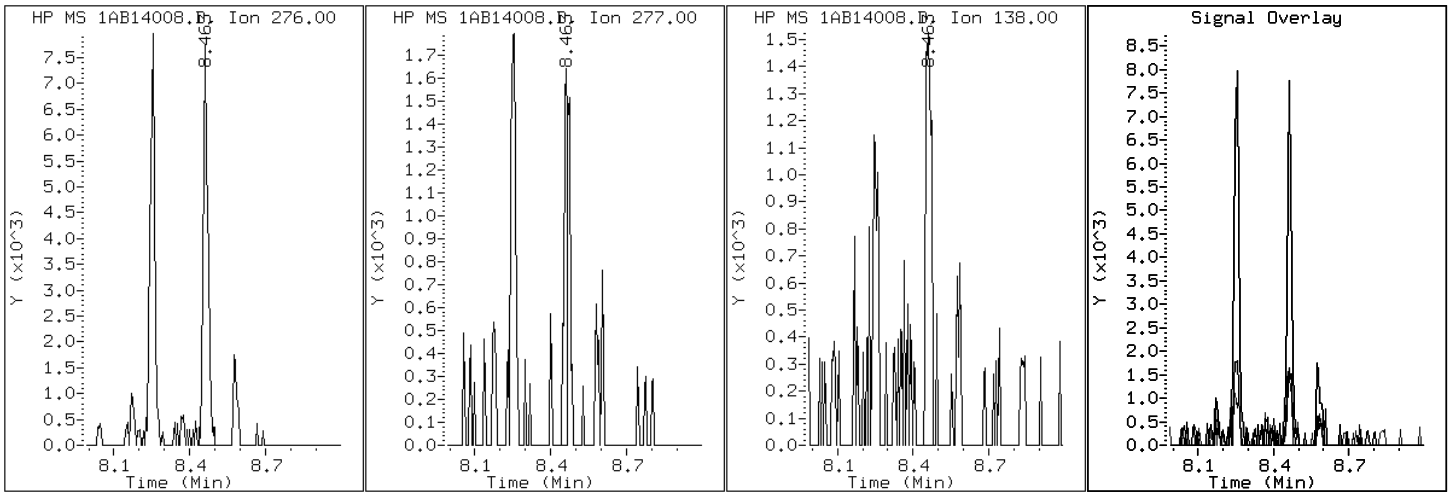
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

26 Benzo(g,h,i)perylene



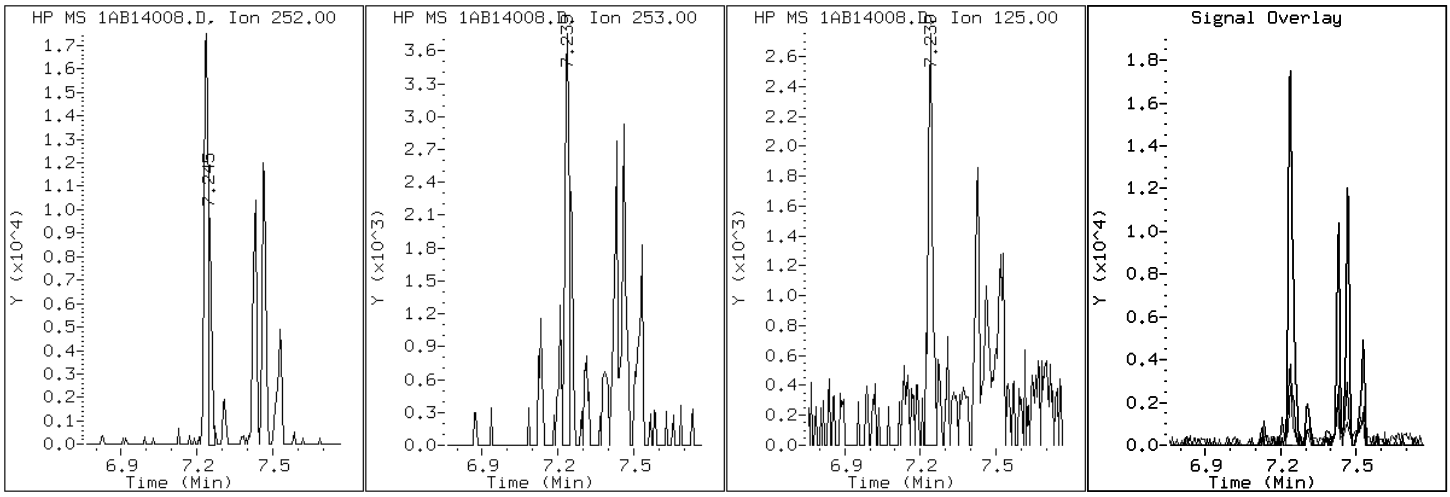
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

21 Benzo(k)fluoranthene



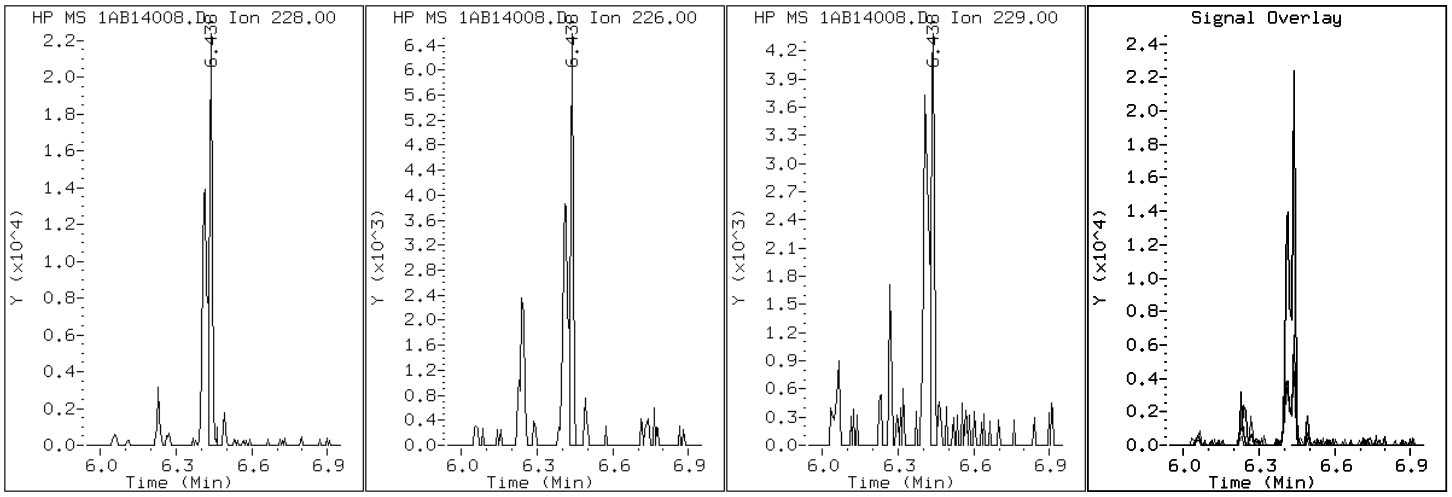
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

19 Chrysene



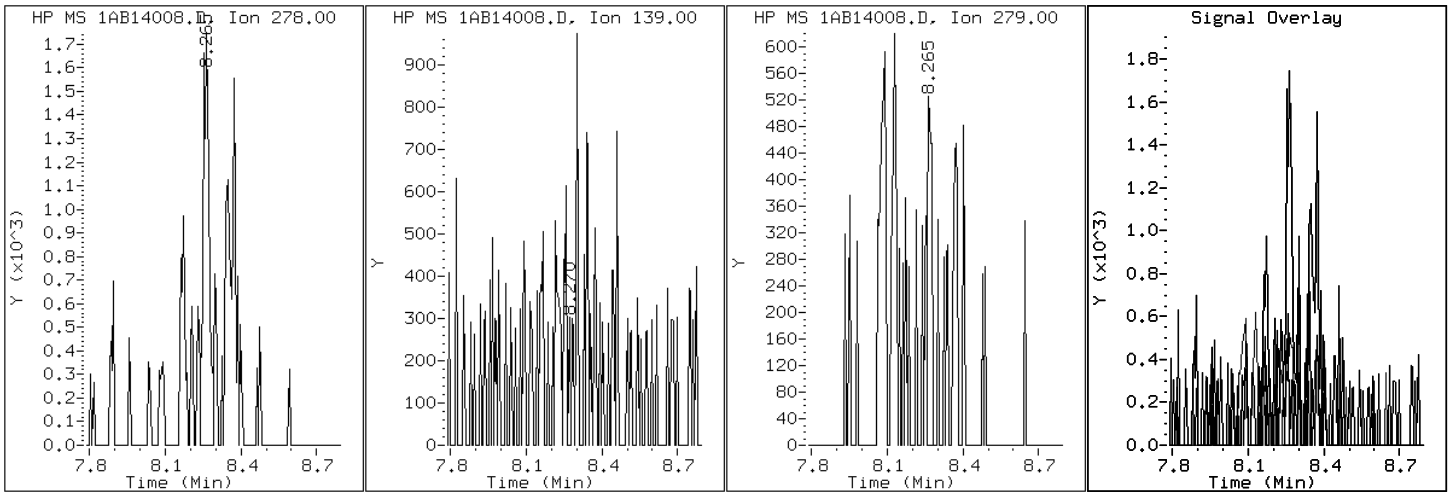
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

25 Dibenzo(a,h)anthracene



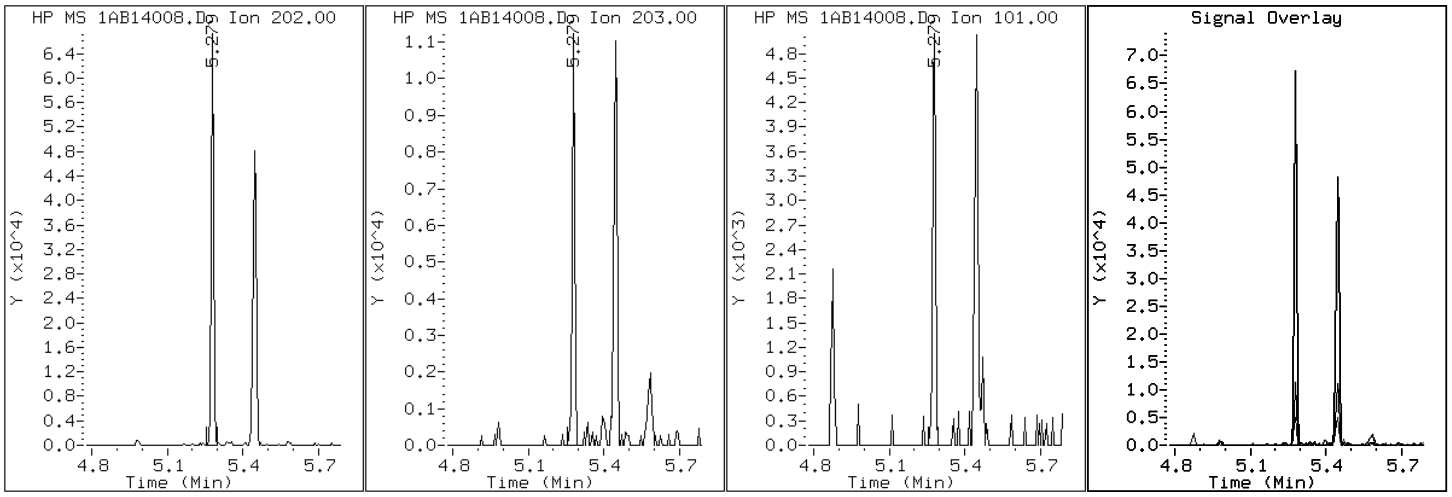
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

15 Fluoranthene



Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

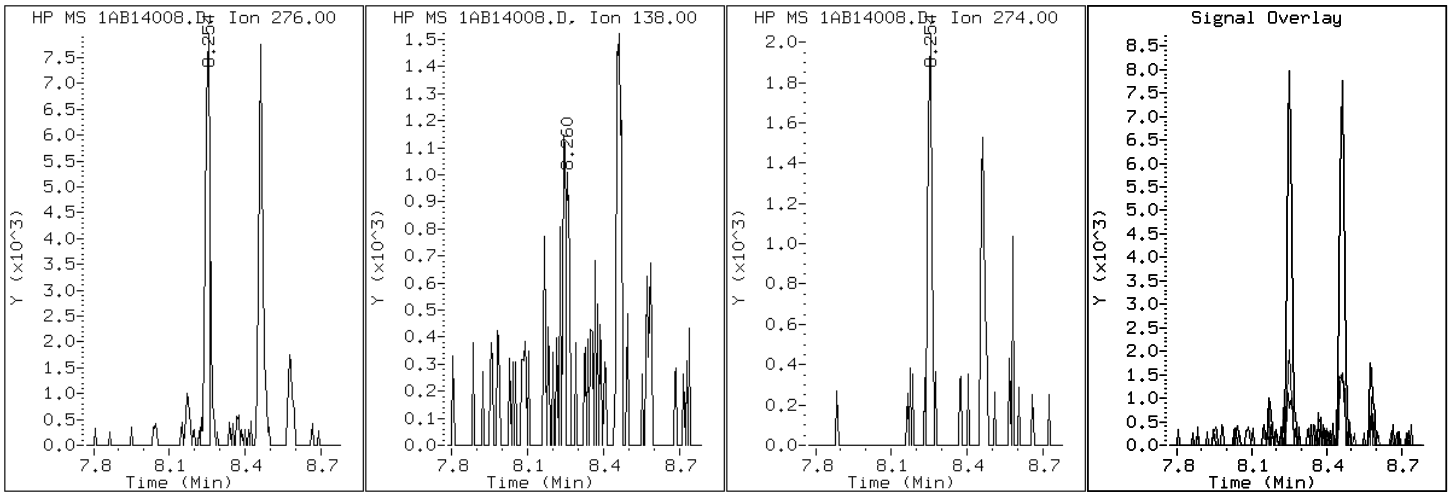
Client ID: CV0748J-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a

Operator: SCC

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



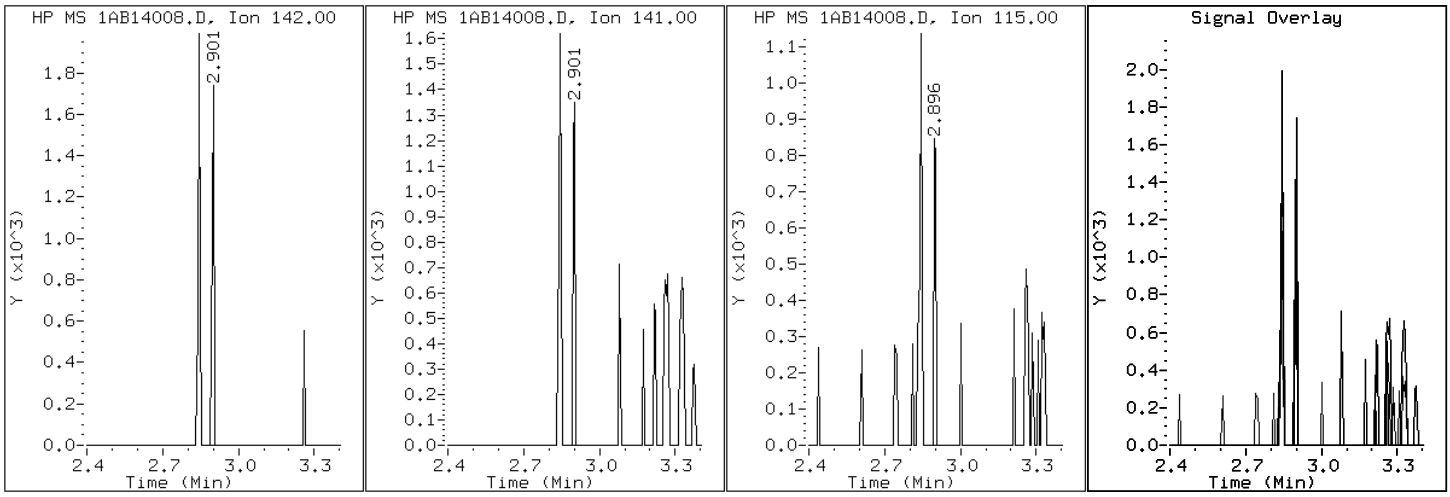
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

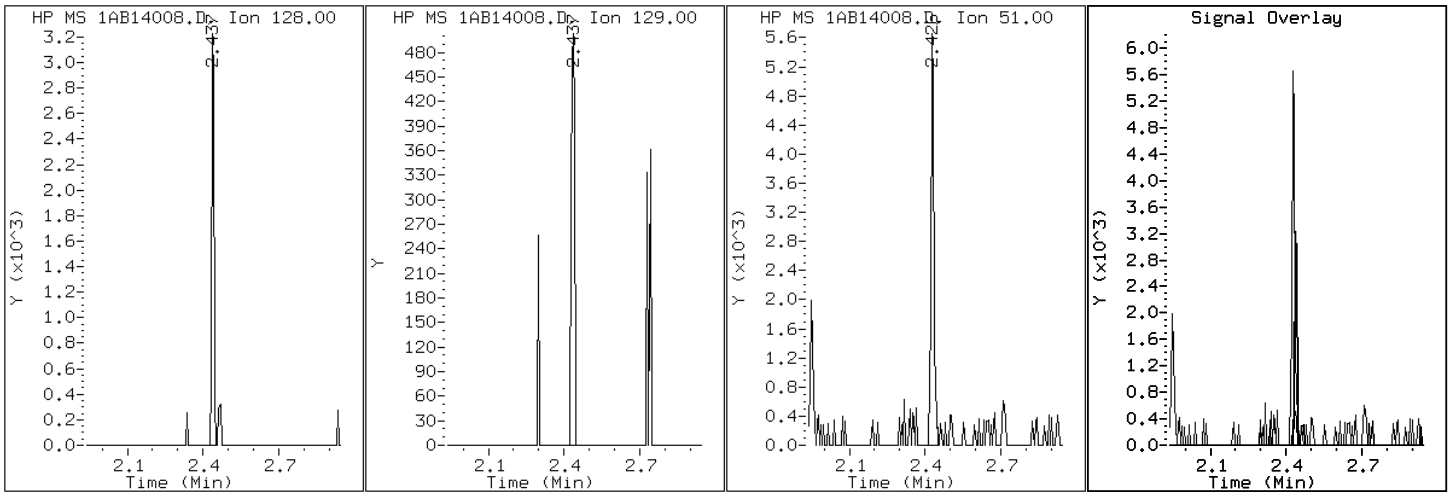
Client ID: CV0748J-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a

Operator: SCC

2 Naphthalene



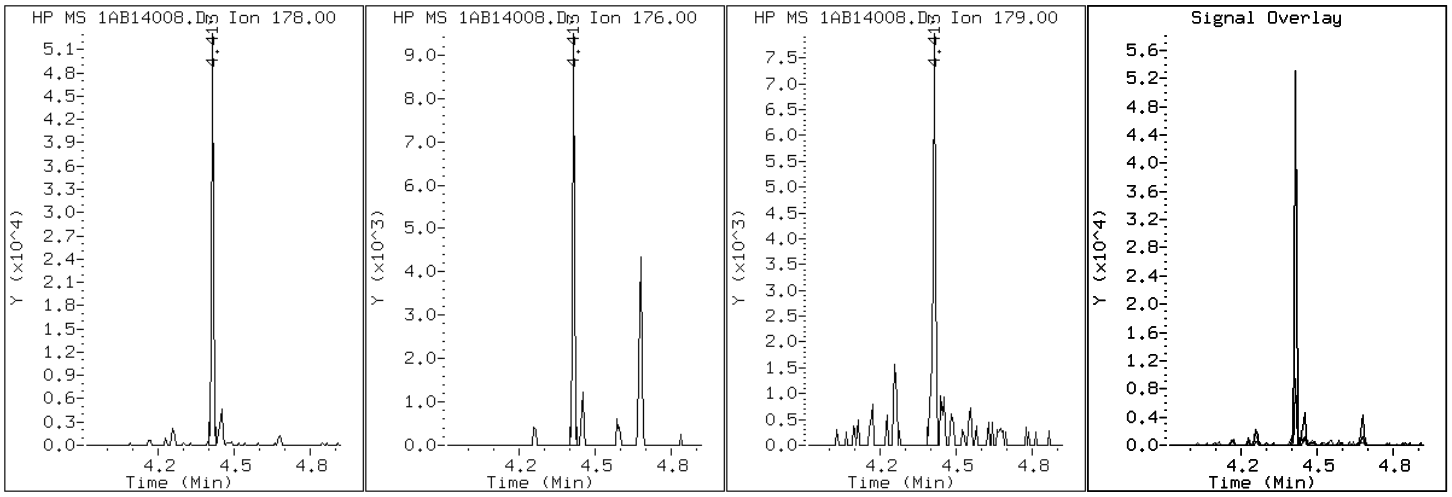
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

11 Phenanthrene



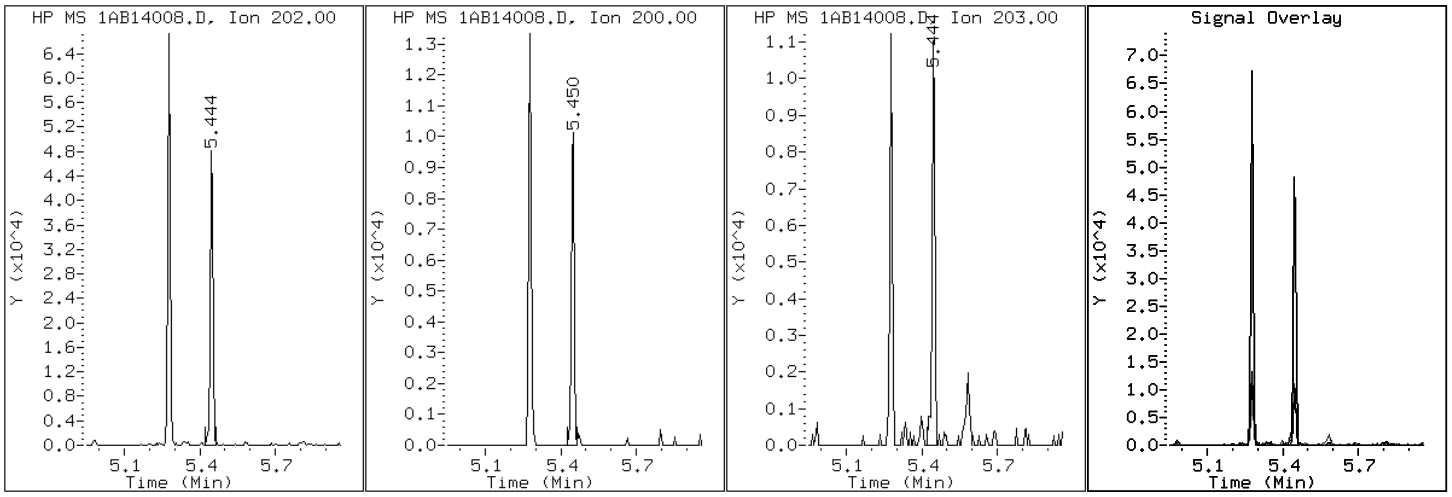
Data File: 1AB14008.D

Date: 14-FEB-2013 11:37

Client ID: CV0748J-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14008.D
Inj. Date and Time: 14-FEB-2013 11:37
Instrument ID: BSMA5973.i
Client ID: CV0748J-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

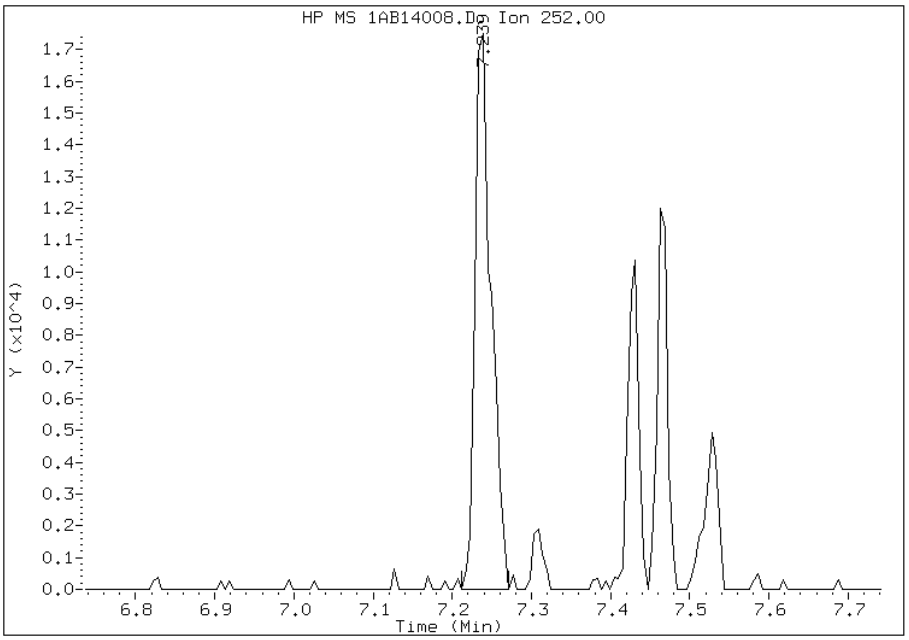
Processing Integration Results

RT: 7.24

Response: 24410

Amount: 2

Conc: 124



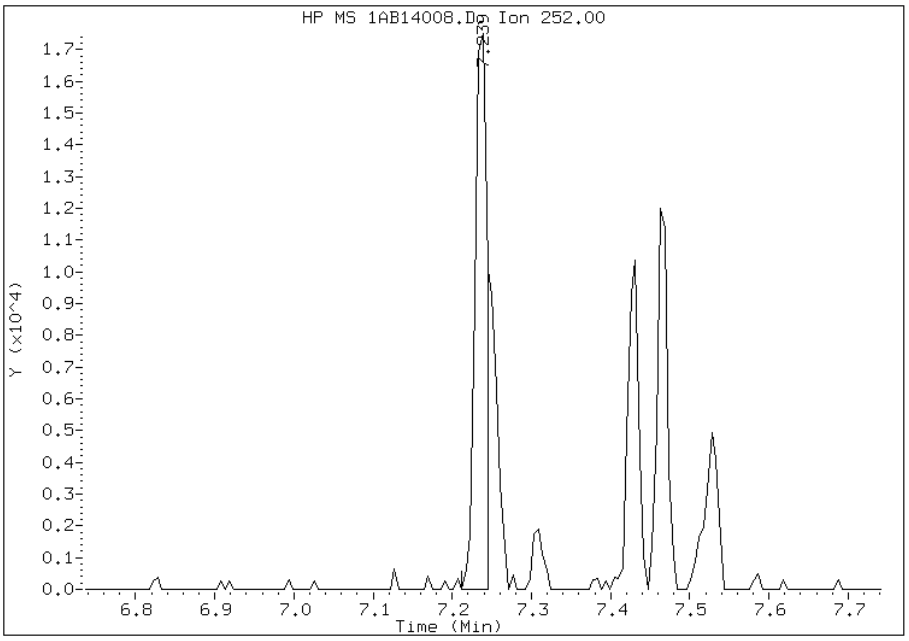
Manual Integration Results

RT: 7.24

Response: 17909

Amount: 1

Conc: 91



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14008.D
Inj. Date and Time: 14-FEB-2013 11:37
Instrument ID: BSMA5973.i
Client ID: CV0748J-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

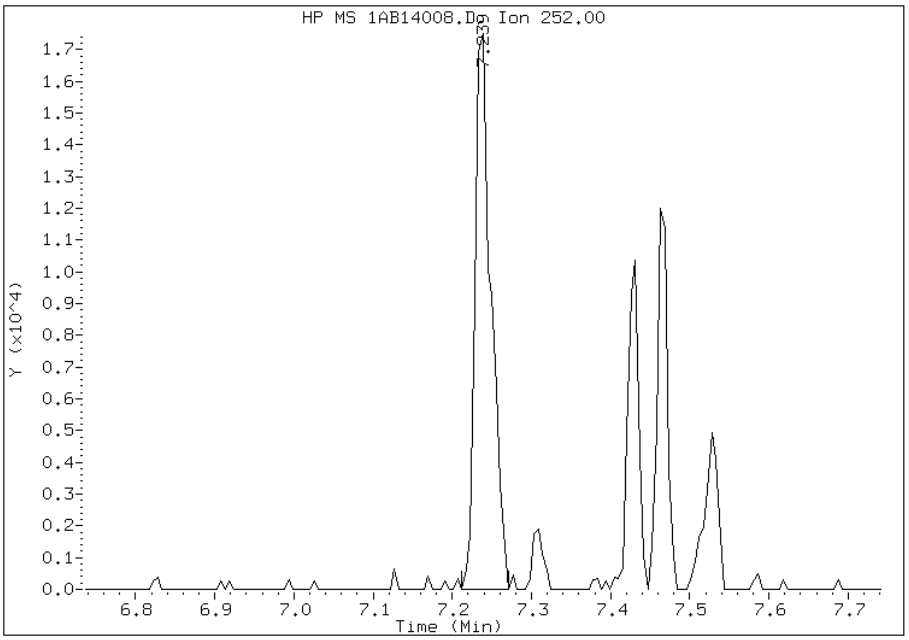
Processing Integration Results

RT: 7.24

Response: 24410

Amount: 1

Conc: 119



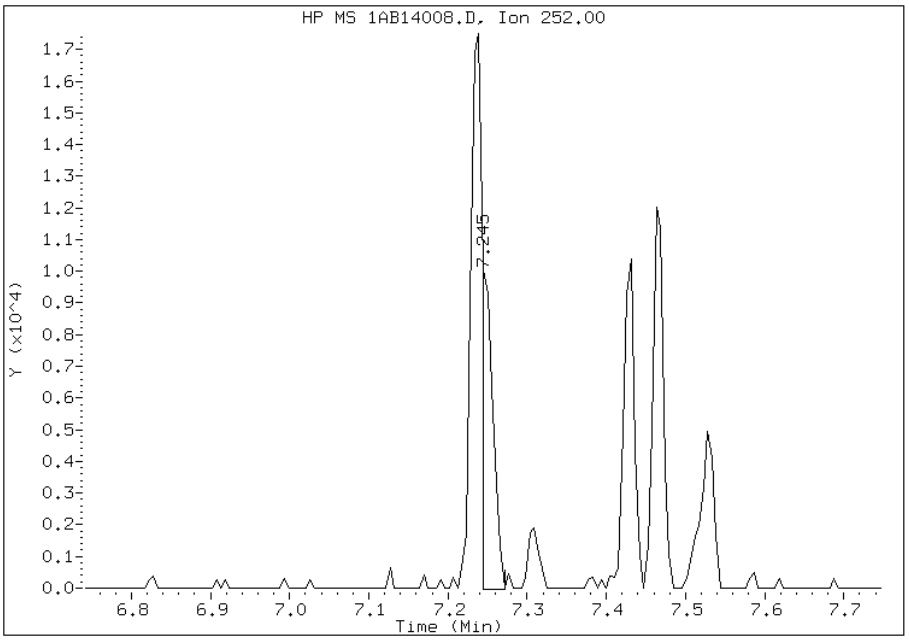
Manual Integration Results

RT: 7.24

Response: 9799

Amount: 1

Conc: 48



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14008.D
Inj. Date and Time: 14-FEB-2013 11:37
Instrument ID: BSMA5973.i
Client ID: CV0748J-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

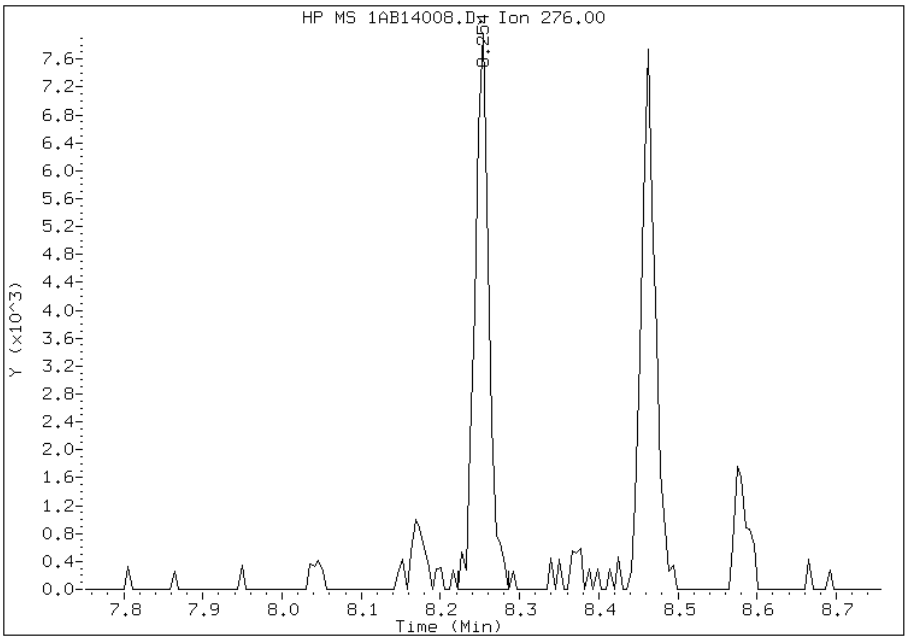
Processing Integration Results

RT: 8.25

Response: 9743

Amount: 1

Conc: 66



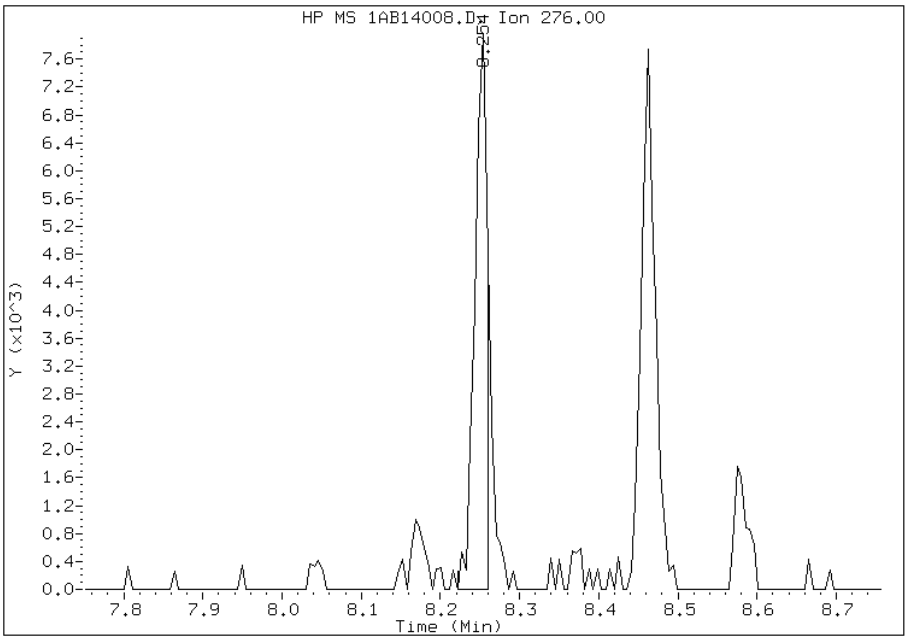
Manual Integration Results

RT: 8.25

Response: 8418

Amount: 1

Conc: 57



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748K-CS | Lab Sample ID: 680-87218-23

Matrix: Solid | Lab File ID: 1AB14011.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:22

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.44(g) | Date Analyzed: 02/14/2013 12:22

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

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

% Moisture: 6.9 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	8.0	J	42	5.2
120-12-7	Anthracene	16		8.8	4.4
56-55-3	Benzo[a]anthracene	73		8.3	4.1
50-32-8	Benzo[a]pyrene	52		11	5.4
205-99-2	Benzo[b]fluoranthene	82		13	6.4
191-24-2	Benzo[g,h,i]perylene	58		21	4.6
207-08-9	Benzo[k]fluoranthene	26		8.3	3.8
218-01-9	Chrysene	65		9.4	4.7
53-70-3	Dibenz(a,h)anthracene	18	J	21	4.3
206-44-0	Fluoranthene	89		21	4.2
86-73-7	Fluorene	4.6	J	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	53		21	7.4
90-12-0	1-Methylnaphthalene	27	J	42	4.6
91-57-6	2-Methylnaphthalene	29	J	42	7.4
91-20-3	Naphthalene	26	J	42	4.6
85-01-8	Phenanthrene	60		8.3	4.1
129-00-0	Pyrene	93		21	3.9

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\1A021413.b\1AB14011.D
Lab Smp Id: 680-87218-A-23-A Client Smp ID: CV0748K-CS
Inj Date : 14-FEB-2013 12:22
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-23-a
Misc Info : 680-87218-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 11
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	15.440	Weight Extracted
M	6.903	% 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	2.428	2.430	(1.000)	870816	40.0000	
* 6 Acenaphthene-d10	164	3.459	3.461	(1.000)	537066	40.0000	
* 10 Phenanthrene-d10	188	4.399	4.402	(1.000)	726016	40.0000	
$ 14 o-Terphenyl	230	4.682	4.685	(1.064)	70067	6.64180	462.0646
* 18 Chrysene-d12	240	6.424	6.426	(1.000)	416156	40.0000	
* 23 Perylene-d12	264	7.519	7.527	(1.000)	494241	40.0000	
2 Naphthalene	128	2.439	2.441	(1.004)	7897	0.37361	25.9920(Q)
3 2-Methylnaphthalene	141	2.845	2.847	(1.172)	4754	0.41984	29.2078
4 1-Methylnaphthalene	142	2.898	2.900	(1.194)	5033	0.39265	27.3163
5 Acenaphthylene	152	3.374	3.371	(0.975)	2722	0.11478	7.9853
9 Fluorene	166	3.785	3.787	(1.094)	1075	0.06661	4.6338(Q)
11 Phenanthrene	178	4.415	4.418	(1.004)	17148	0.86504	60.1802
12 Anthracene	178	4.447	4.455	(1.011)	4616	0.22839	15.8888
13 Carbazole	167	4.608	4.610	(1.047)	2355	0.13593	9.4567

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.281	5.283	(1.200)	25218	1.28312	89.2657
16 Pyrene	202	5.446	5.454	(0.848)	20028	1.33258	92.7066
17 Benzo(a)anthracene	228	6.419	6.416	(0.999)	13016	1.04749	72.8732
19 Chrysene	228	6.440	6.448	(1.002)	11287	0.93190	64.8318
20 Benzo(b)fluoranthene	252	7.241	7.244	(0.963)	16247	1.17780	81.9384(M)
21 Benzo(k)fluoranthene	252	7.257	7.265	(0.965)	5430	0.37650	26.1924(QM)
22 Benzo(a)pyrene	252	7.471	7.479	(0.994)	9843	0.75141	52.2750
24 Indeno(1,2,3-cd)pyrene	276	8.262	8.275	(1.099)	7864	0.76028	52.8917(M)
25 Dibenzo(a,h)anthracene	278	8.272	8.291	(1.100)	2686	0.25975	18.0707
26 Benzo(g,h,i)perylene	276	8.475	8.494	(1.127)	9009	0.84071	58.4873

QC Flag Legend

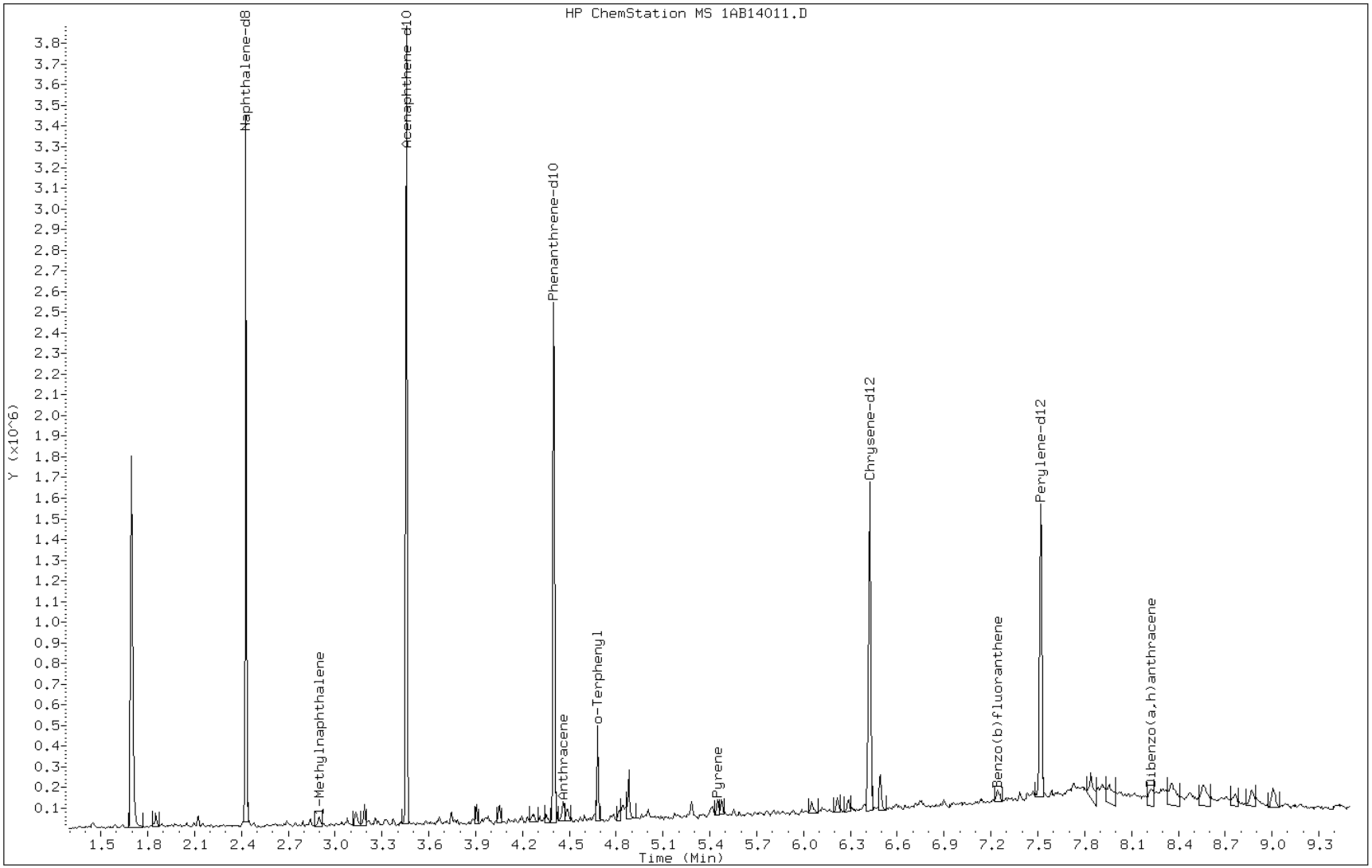
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

Client ID: CV0748K-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a | Operator: SCC



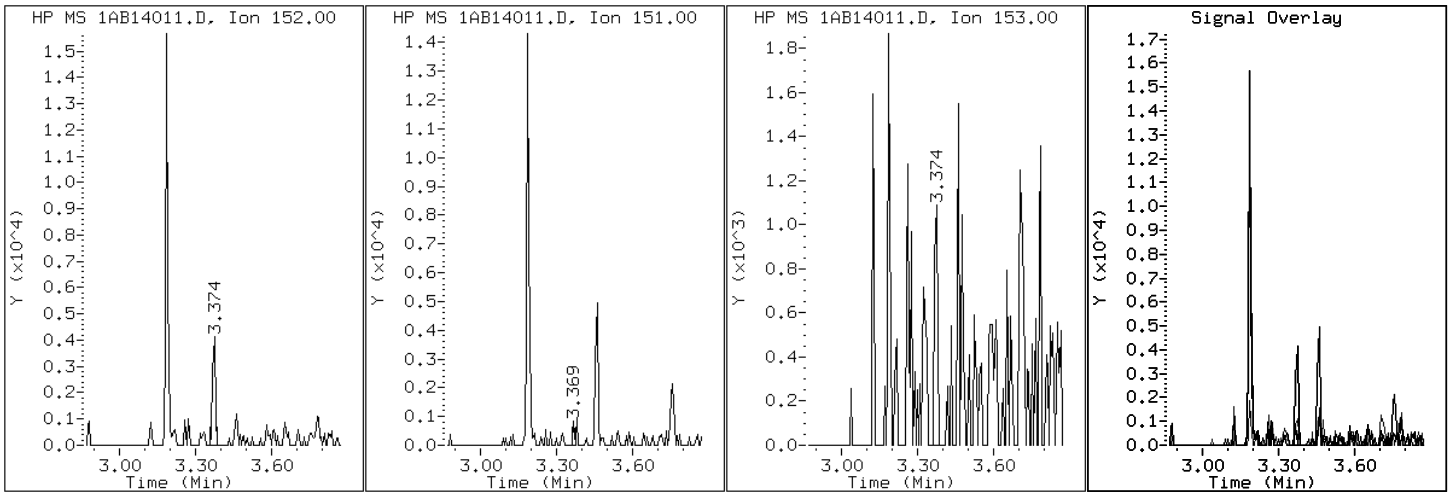
Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

Client ID: CV0748K-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a Operator: SCC

5 Acenaphthylene



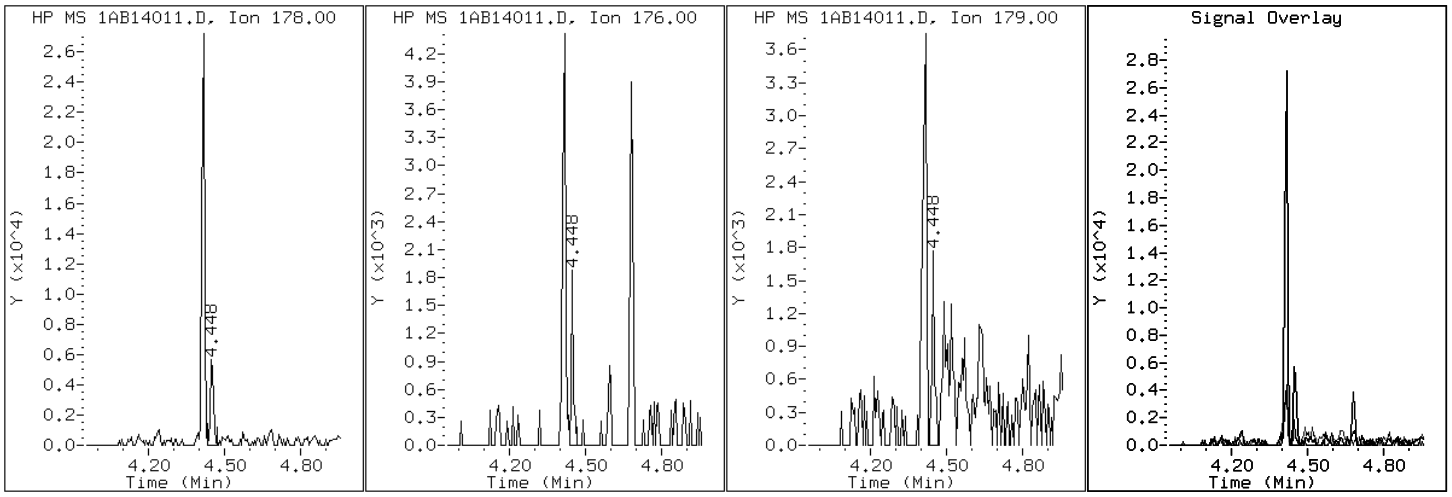
Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

Client ID: CV0748K-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a Operator: SCC

12 Anthracene



Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

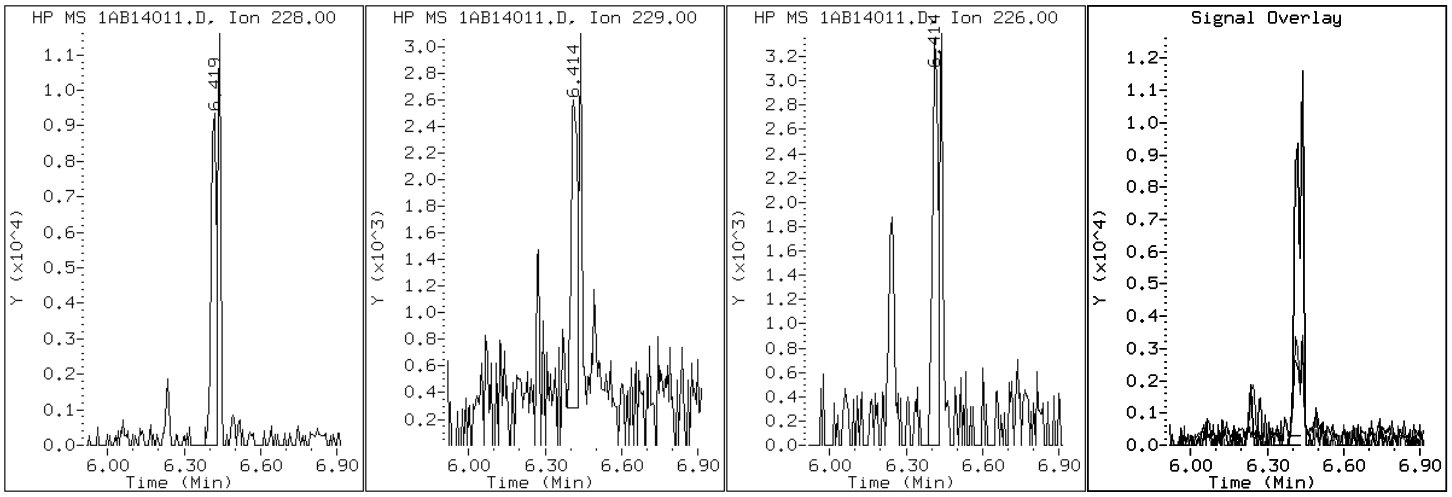
Client ID: CV0748K-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a

Operator: SCC

17 Benzo(a)anthracene



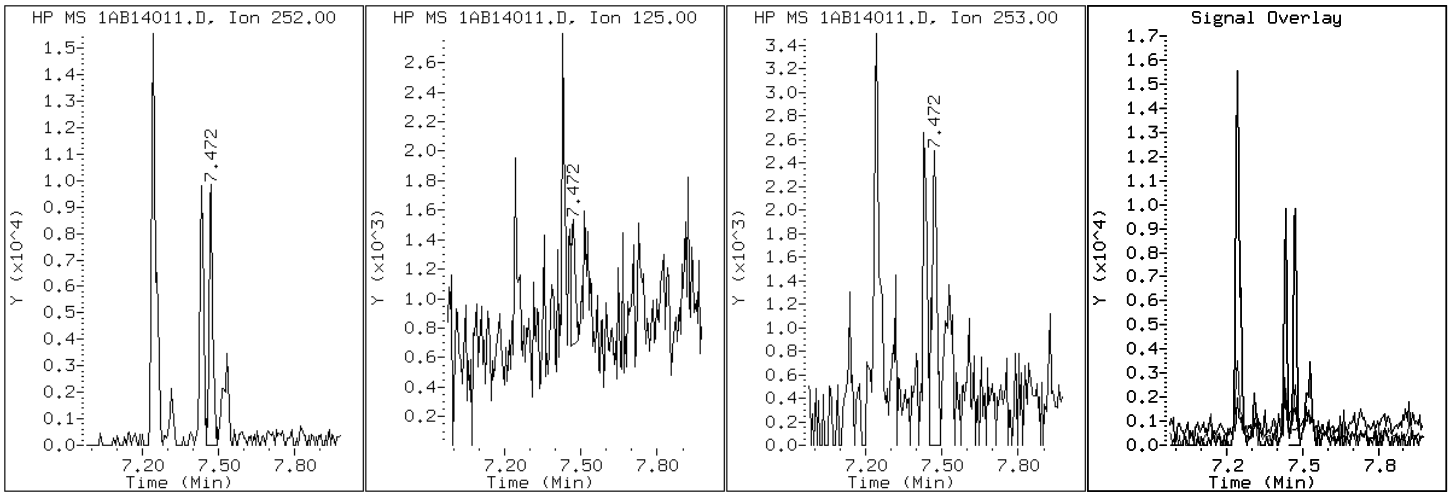
Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

Client ID: CV0748K-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

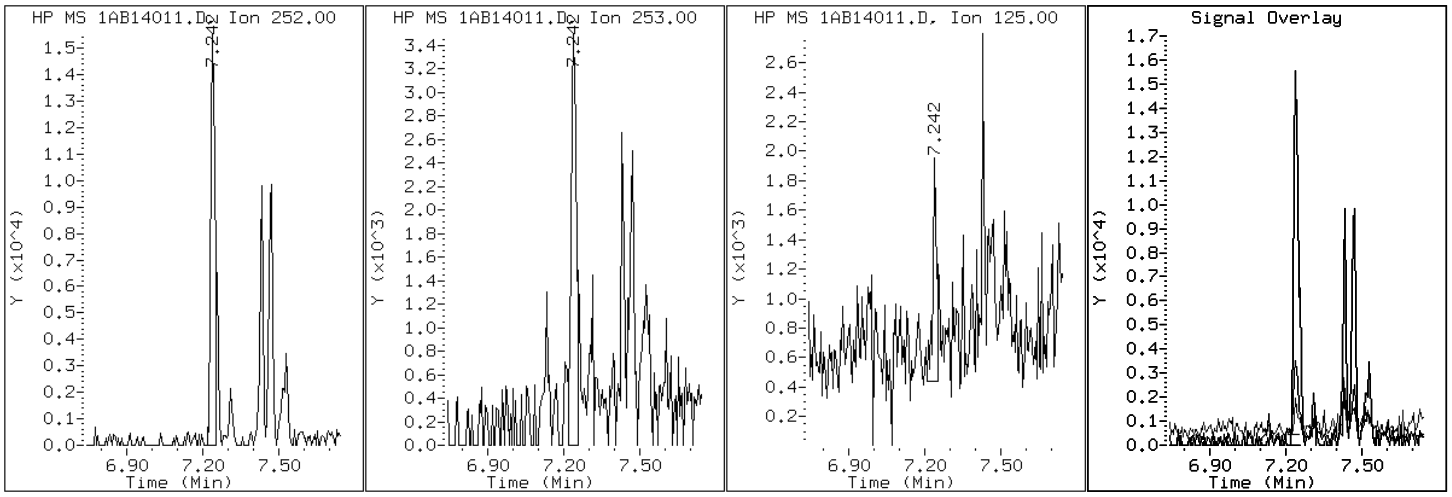
Client ID: CV0748K-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

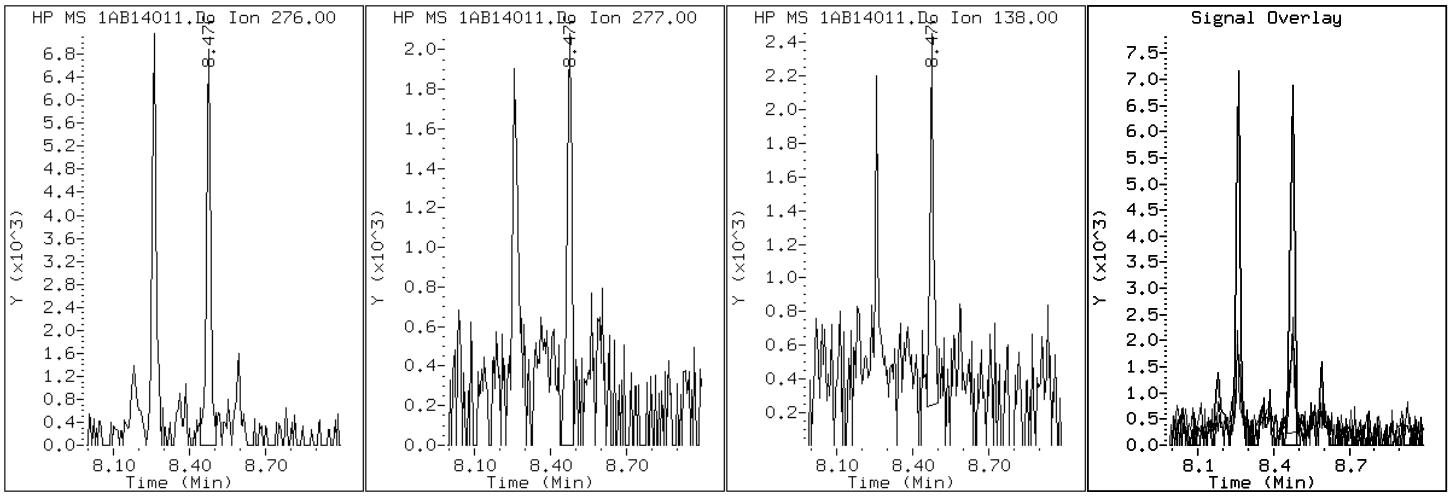
Client ID: CV0748K-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a

Operator: SCC

26 Benzo(g,h,i)perylene



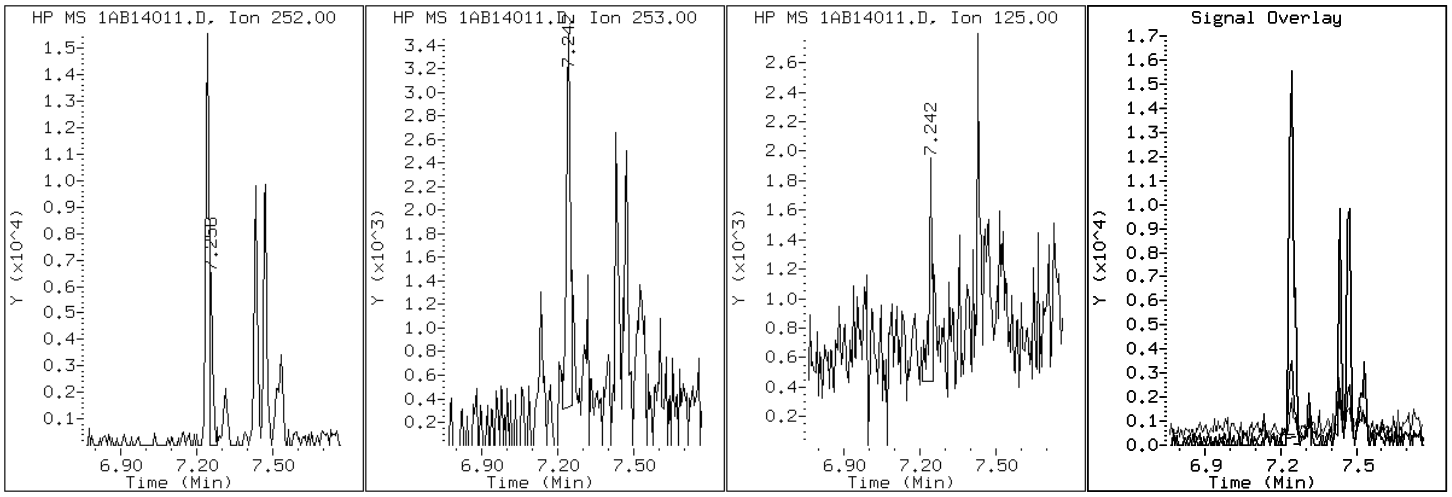
Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

Client ID: CV0748K-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a Operator: SCC

21 Benzo(k)fluoranthene



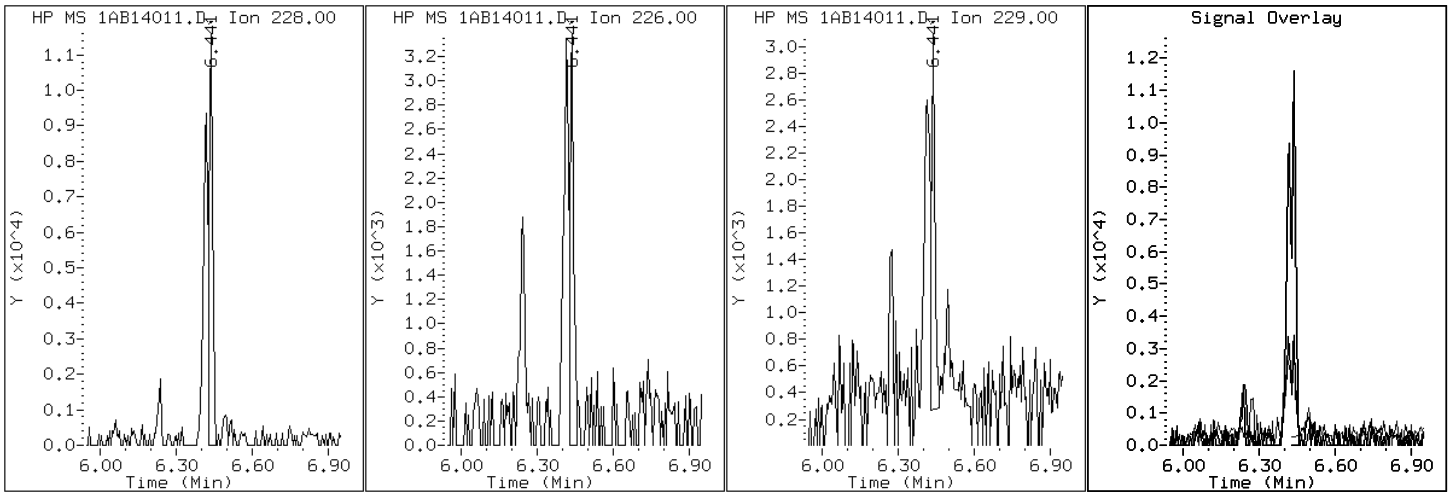
Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

Client ID: CV0748K-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a Operator: SCC

19 Chrysene



Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

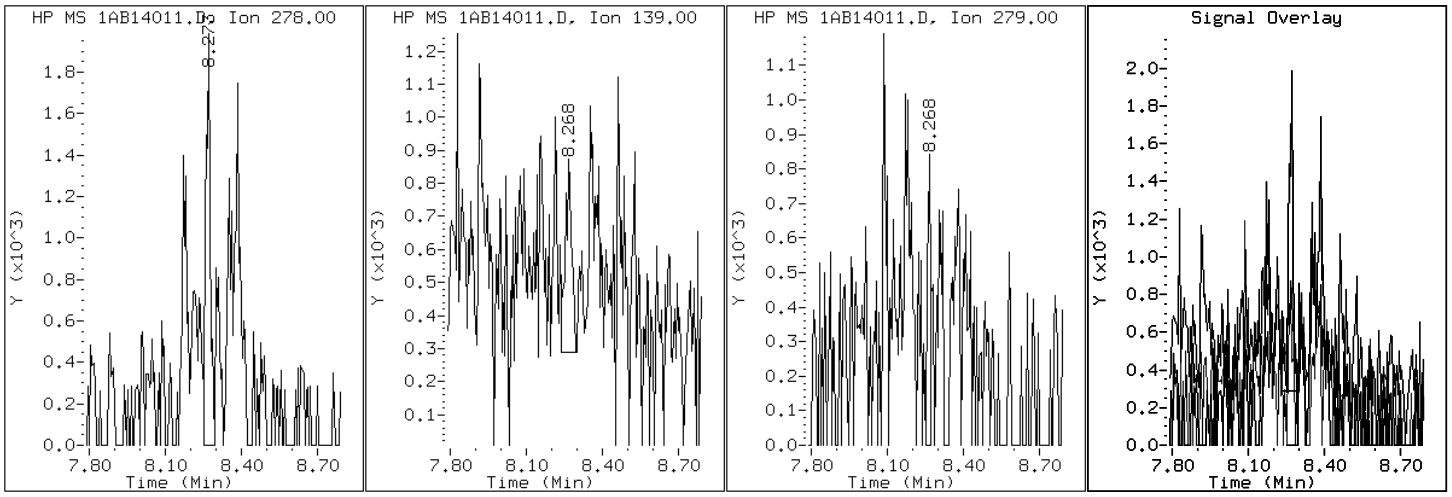
Client ID: CV0748K-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

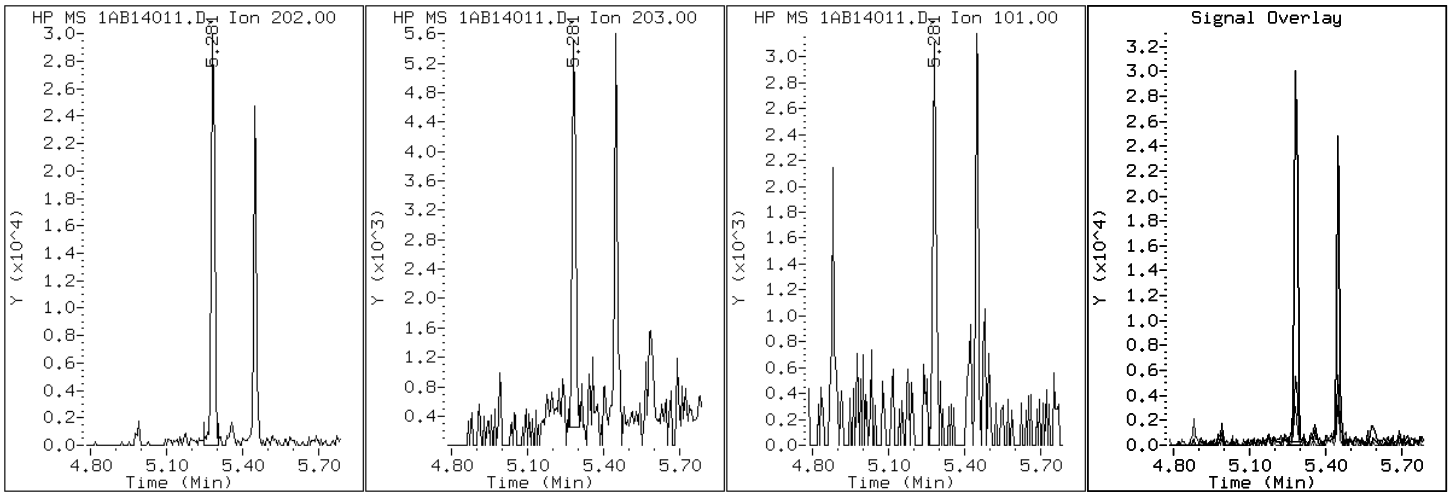
Client ID: CV0748K-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a

Operator: SCC

15 Fluoranthene



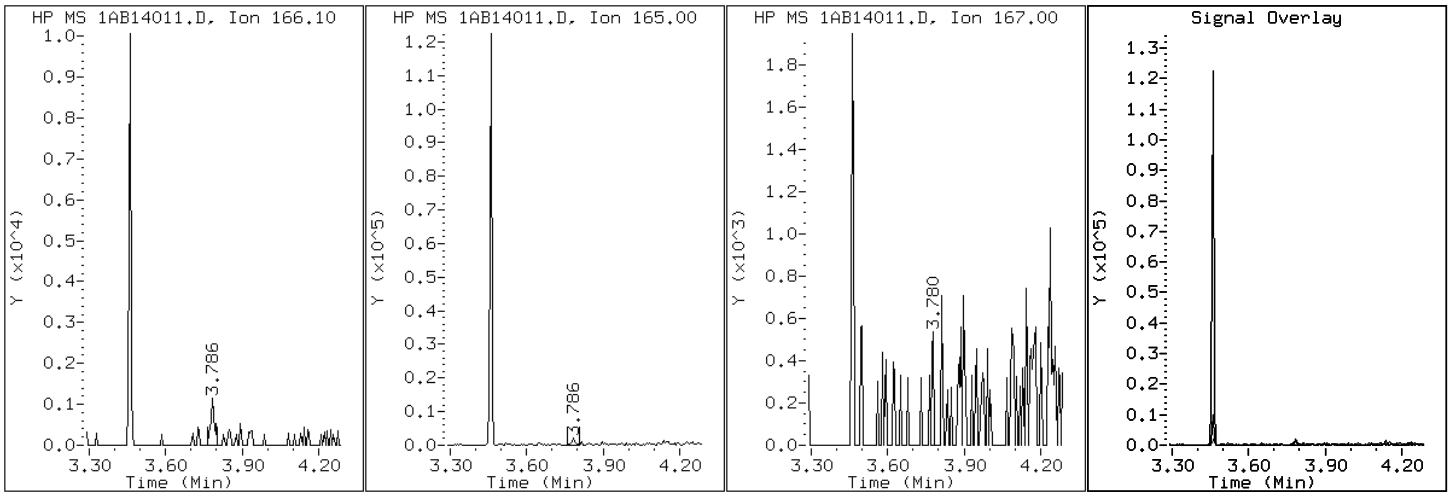
Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

Client ID: CV0748K-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a Operator: SCC

9 Fluorene



Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

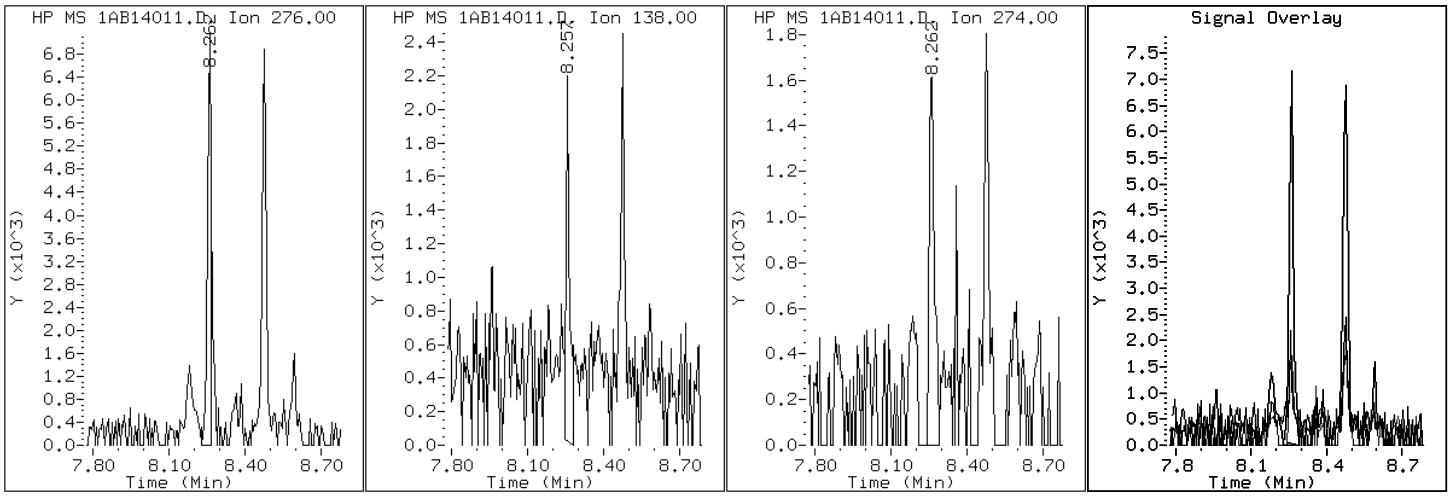
Client ID: CV0748K-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a

Operator: SCC

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



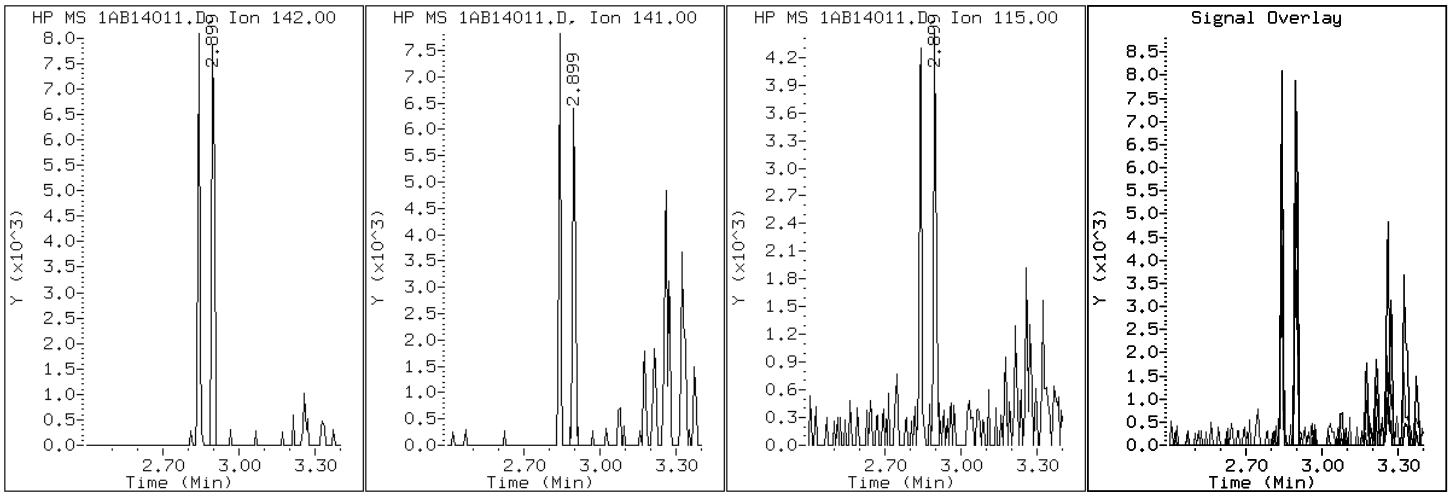
Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

Client ID: CV0748K-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a Operator: SCC

4 1-Methylnaphthalene



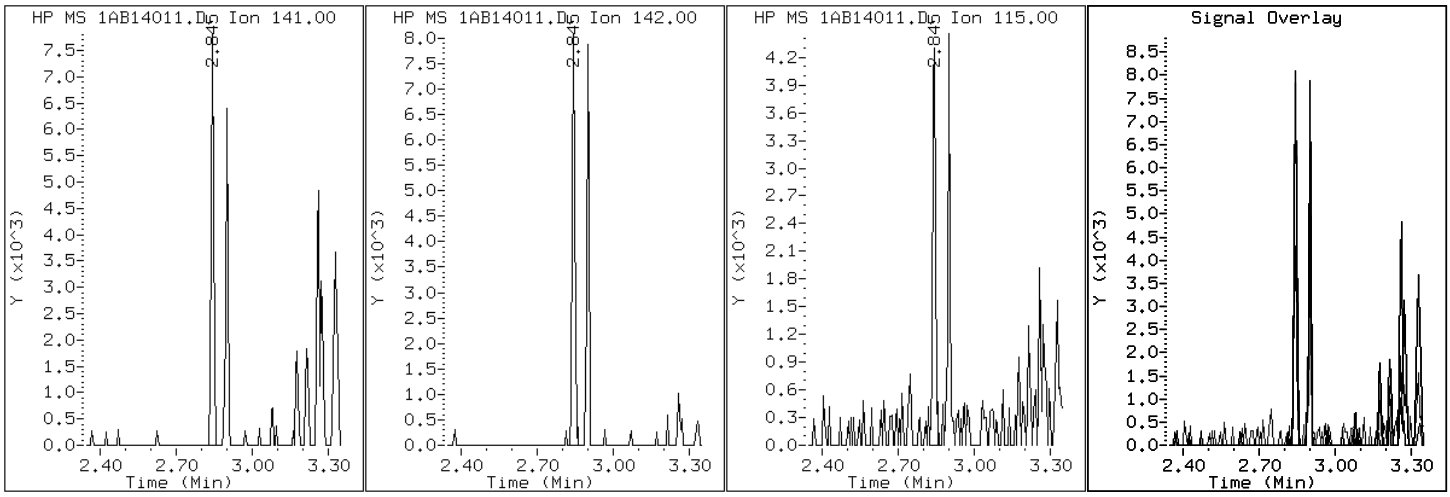
Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

Client ID: CV0748K-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

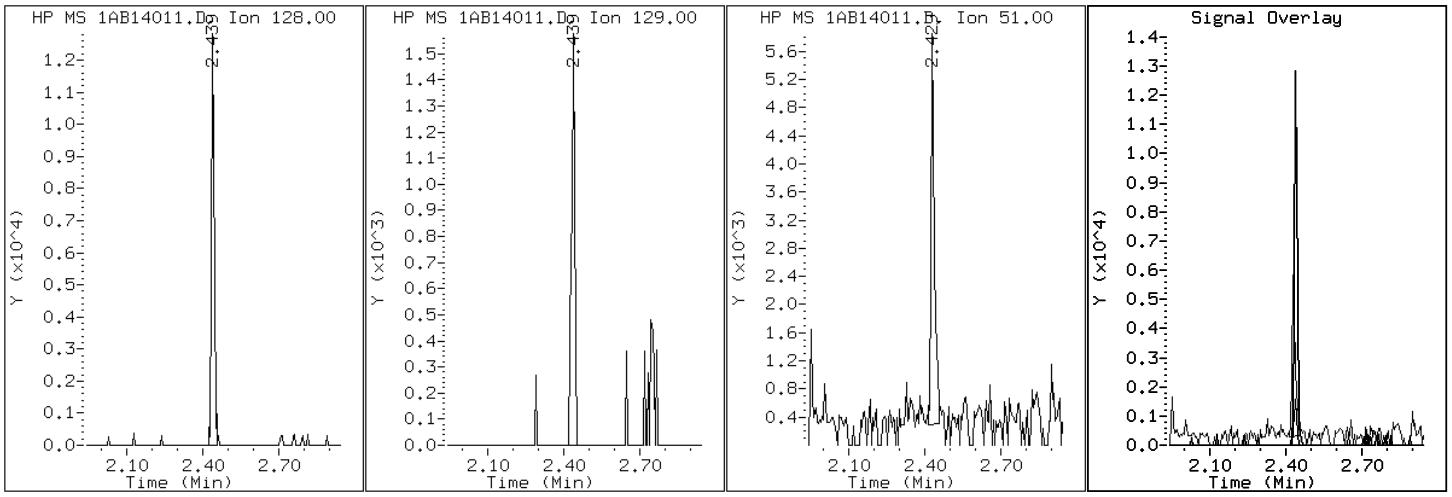
Client ID: CV0748K-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a

Operator: SCC

2 Naphthalene



Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

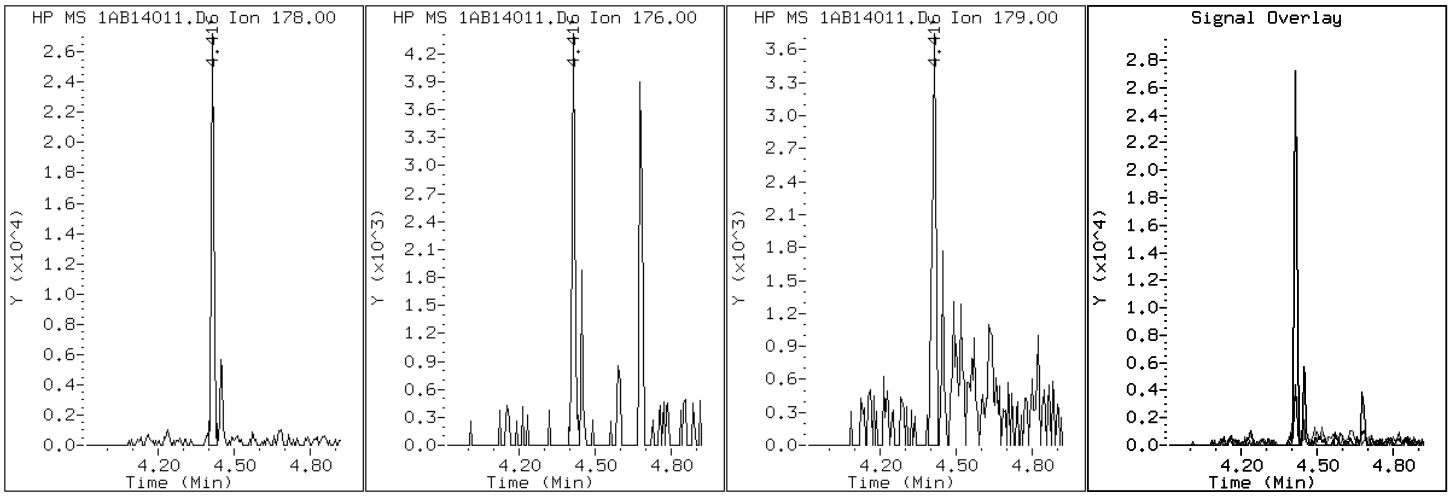
Client ID: CV0748K-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a

Operator: SCC

11 Phenanthrene



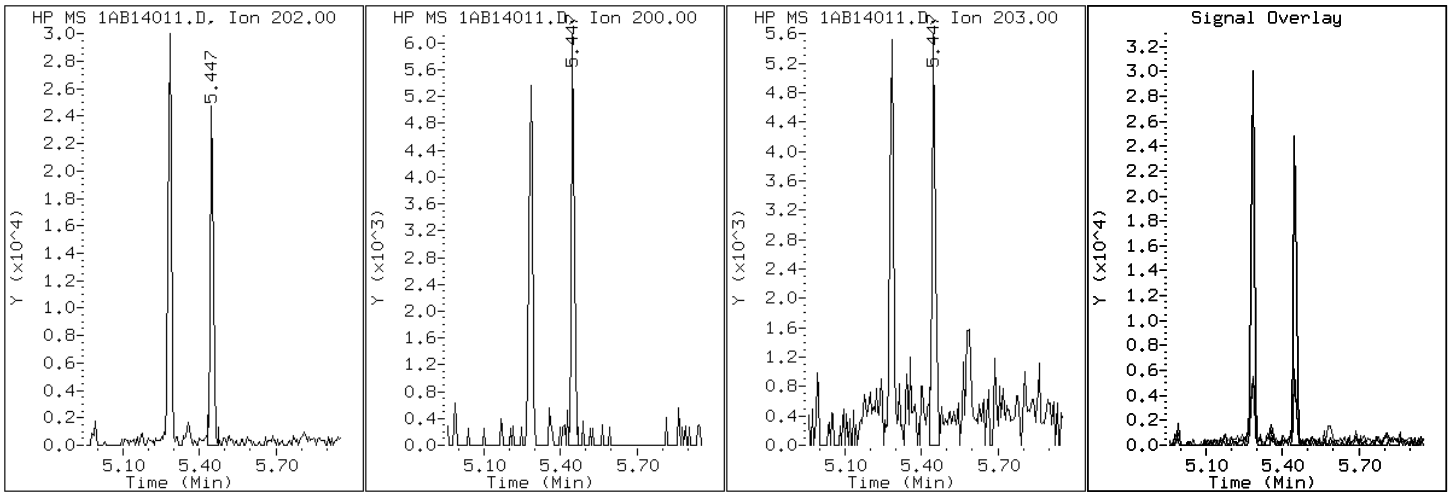
Data File: 1AB14011.D

Date: 14-FEB-2013 12:22

Client ID: CV0748K-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-23-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14011.D
Inj. Date and Time: 14-FEB-2013 12:22
Instrument ID: BSMA5973.i
Client ID: CV0748K-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

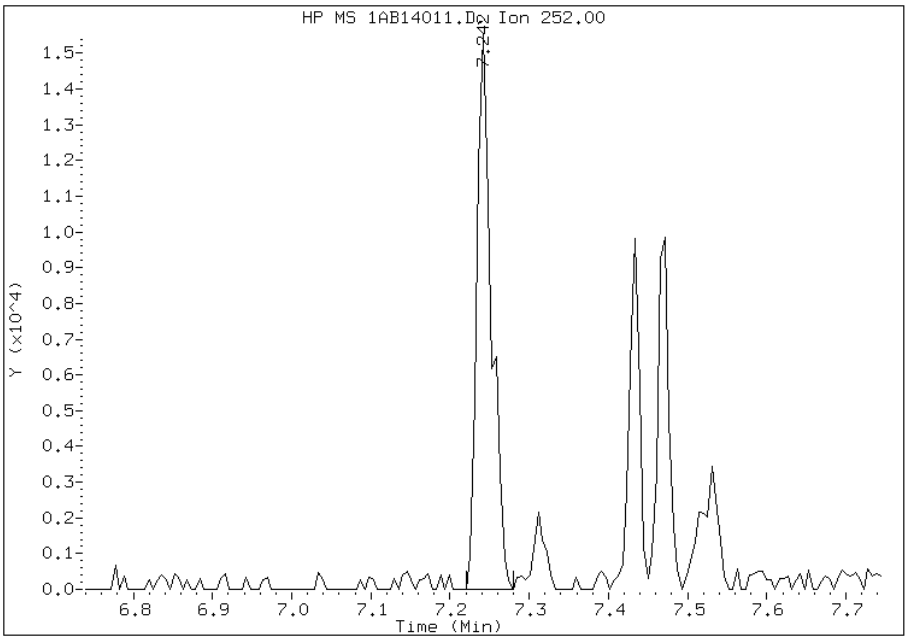
Processing Integration Results

RT: 7.24

Response: 19752

Amount: 1

Conc: 100



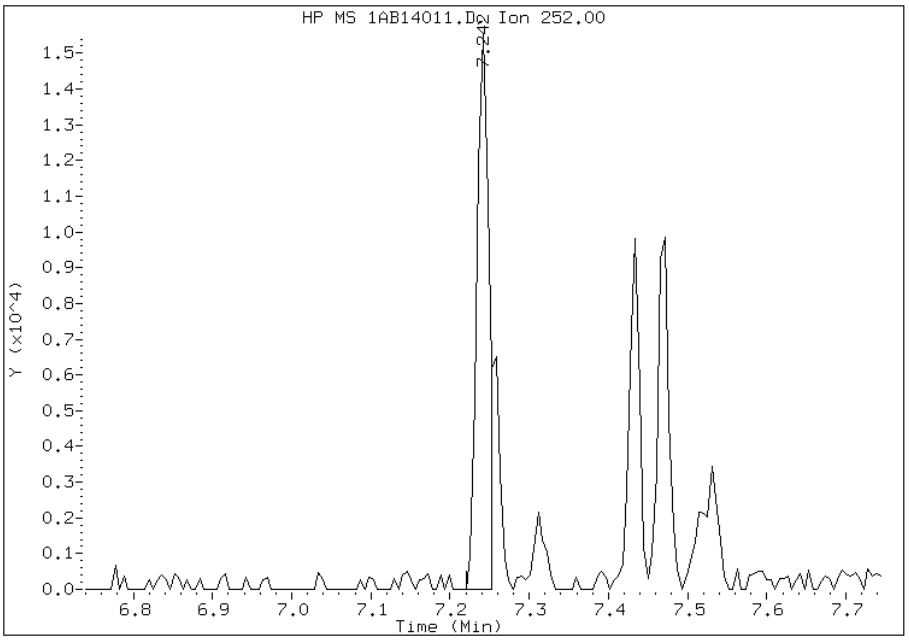
Manual Integration Results

RT: 7.24

Response: 16247

Amount: 1

Conc: 82



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14011.D
Inj. Date and Time: 14-FEB-2013 12:22
Instrument ID: BSMA5973.i
Client ID: CV0748K-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

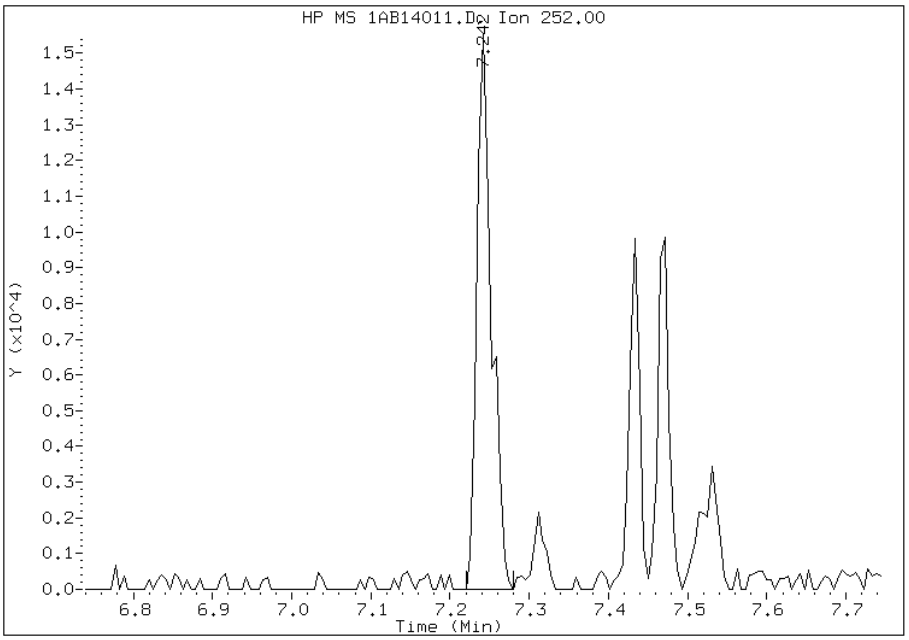
Processing Integration Results

RT: 7.24

Response: 19752

Amount: 1

Conc: 95



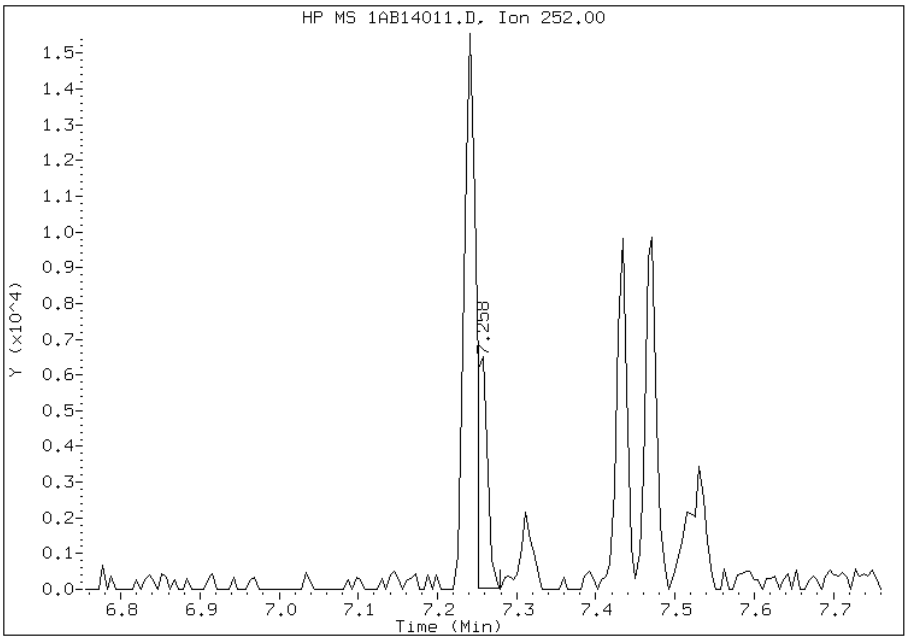
Manual Integration Results

RT: 7.26

Response: 5430

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14011.D
Inj. Date and Time: 14-FEB-2013 12:22
Instrument ID: BSMA5973.i
Client ID: CV0748K-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

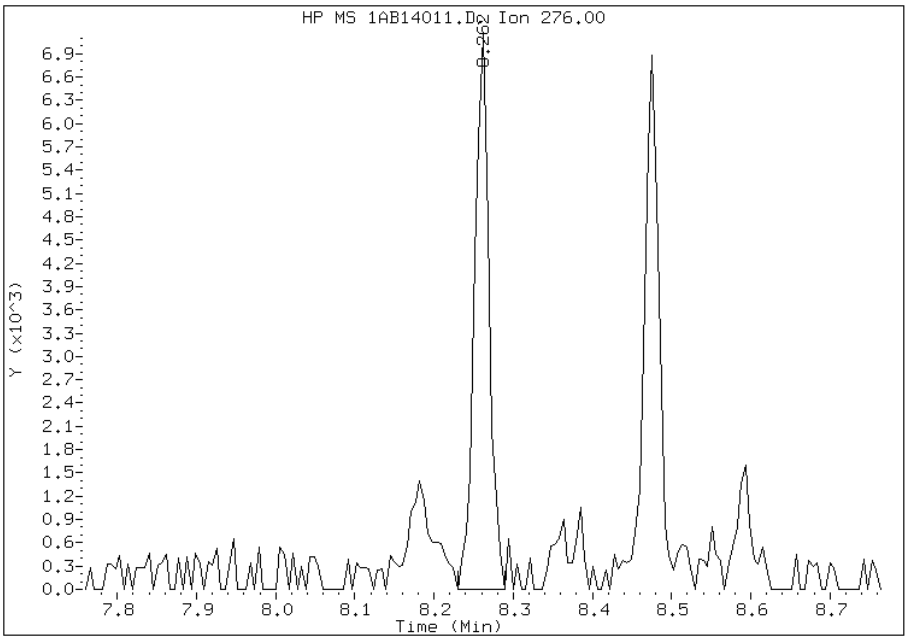
Processing Integration Results

RT: 8.26

Response: 9063

Amount: 1

Conc: 61



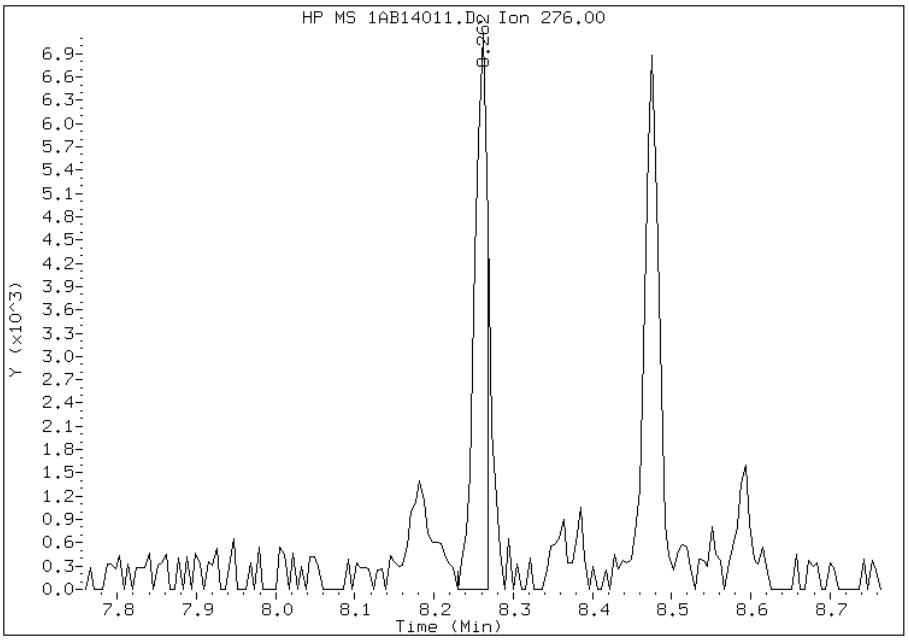
Manual Integration Results

RT: 8.26

Response: 7864

Amount: 1

Conc: 53



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748L-CS | Lab Sample ID: 680-87218-24

Matrix: Solid | Lab File ID: 1AB14012.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:29

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 14.90(g) | Date Analyzed: 02/14/2013 12:38

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

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

% Moisture: 7.2 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	24	J	43	5.4
120-12-7	Anthracene	33		9.1	4.6
56-55-3	Benzo[a]anthracene	150		8.7	4.2
50-32-8	Benzo[a]pyrene	100		11	5.6
205-99-2	Benzo[b]fluoranthene	160		13	6.6
191-24-2	Benzo[g,h,i]perylene	130		22	4.8
207-08-9	Benzo[k]fluoranthene	68		8.7	3.9
218-01-9	Chrysene	140		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	35		22	4.4
206-44-0	Fluoranthene	230		22	4.3
86-73-7	Fluorene	5.2	J	22	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	110		22	7.7
90-12-0	1-Methylnaphthalene	42	J	43	4.8
91-57-6	2-Methylnaphthalene	51		43	7.7
91-20-3	Naphthalene	42	J	43	4.8
85-01-8	Phenanthrene	97		8.7	4.2
129-00-0	Pyrene	240		22	4.0

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\1A021413.b\1AB14012.D
Lab Smp Id: 680-87218-A-24-A Client Smp ID: CV0748L-CS
Inj Date : 14-FEB-2013 12:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-24-a
Misc Info : 680-87218-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 12
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	14.900	Weight Extracted
M	7.238	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.432	2.430	(1.000)	859918	40.0000	
* 6 Acenaphthene-d10	164	3.458	3.461	(1.000)	506692	40.0000	
* 10 Phenanthrene-d10	188	4.403	4.402	(1.000)	684281	40.0000	
$ 14 o-Terphenyl	230	4.681	4.685	(1.063)	65233	6.56072	474.6739
* 18 Chrysene-d12	240	6.428	6.426	(1.000)	427754	40.0000	
* 23 Perylene-d12	264	7.523	7.527	(1.000)	509699	40.0000	
2 Naphthalene	128	2.437	2.441	(1.002)	12198	0.58441	42.2828
3 2-Methylnaphthalene	141	2.843	2.847	(1.169)	7918	0.70812	51.2333
4 1-Methylnaphthalene	142	2.902	2.900	(1.193)	7276	0.57483	41.5896
5 Acenaphthylene	152	3.372	3.371	(0.975)	7523	0.33625	24.3281
9 Fluorene	166	3.784	3.787	(1.094)	1088	0.07145	5.1698(Q)
11 Phenanthrene	178	4.414	4.418	(1.002)	24972	1.33656	96.7013
12 Anthracene	178	4.451	4.455	(1.011)	8748	0.45923	33.2257
13 Carbazole	167	4.606	4.610	(1.046)	4033	0.24699	17.8697

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.285	5.283	(1.200)	58246	3.14438	227.4989
16 Pyrene	202	5.450	5.454	(0.848)	51196	3.31402	239.7721
17 Benzo(a)anthracene	228	6.417	6.416	(0.998)	26382	2.06559	149.4471
19 Chrysene	228	6.439	6.448	(1.002)	24899	2.00003	144.7041
20 Benzo(b)fluoranthene	252	7.240	7.244	(0.962)	30622	2.15257	155.7400(M)
21 Benzo(k)fluoranthene	252	7.251	7.265	(0.964)	14048	0.94449	68.3350(QM)
22 Benzo(a)pyrene	252	7.470	7.479	(0.993)	19374	1.43415	103.7621
24 Indeno(1,2,3-cd)pyrene	276	8.260	8.275	(1.098)	15841	1.48503	107.4432(M)
25 Dibenzo(a,h)anthracene	278	8.276	8.291	(1.100)	5156	0.48349	34.9812
26 Benzo(g,h,i)perylene	276	8.474	8.494	(1.126)	20469	1.85221	134.0091

QC Flag Legend

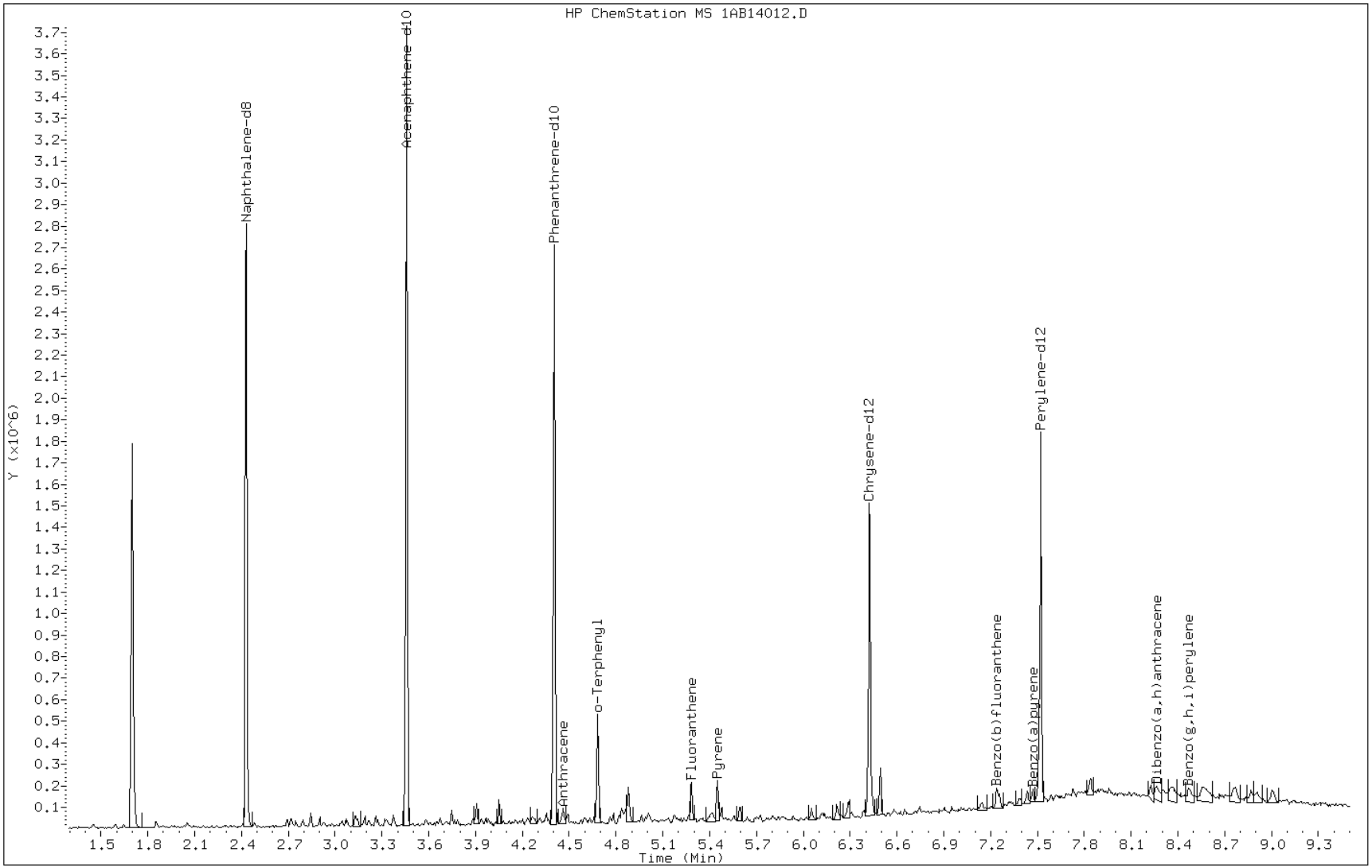
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a | Operator: SCC



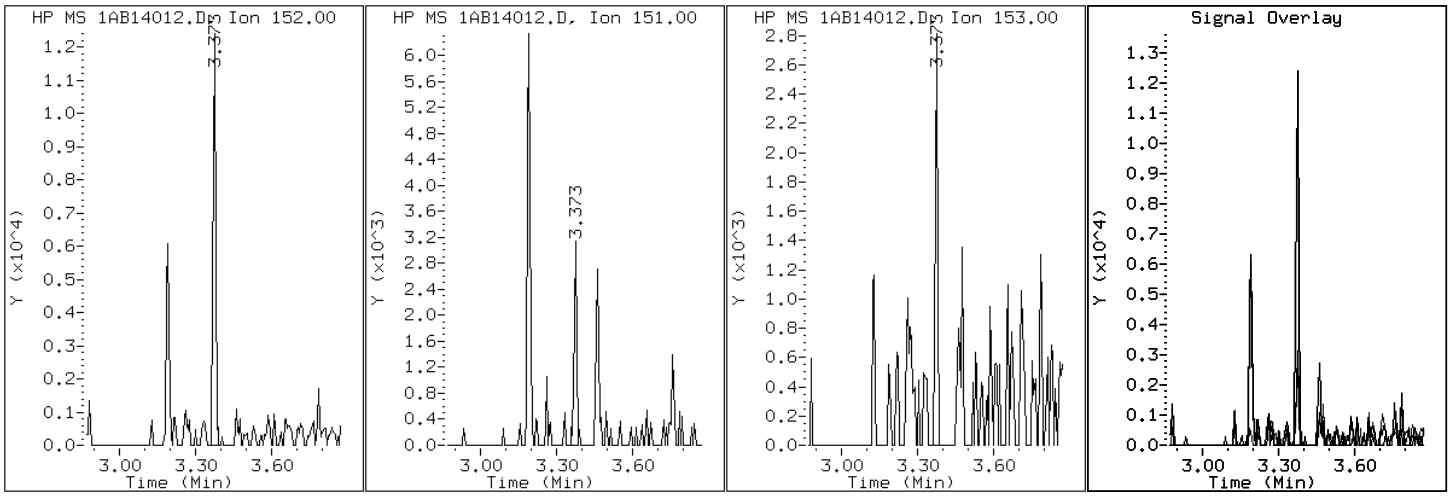
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

5 Acenaphthylene



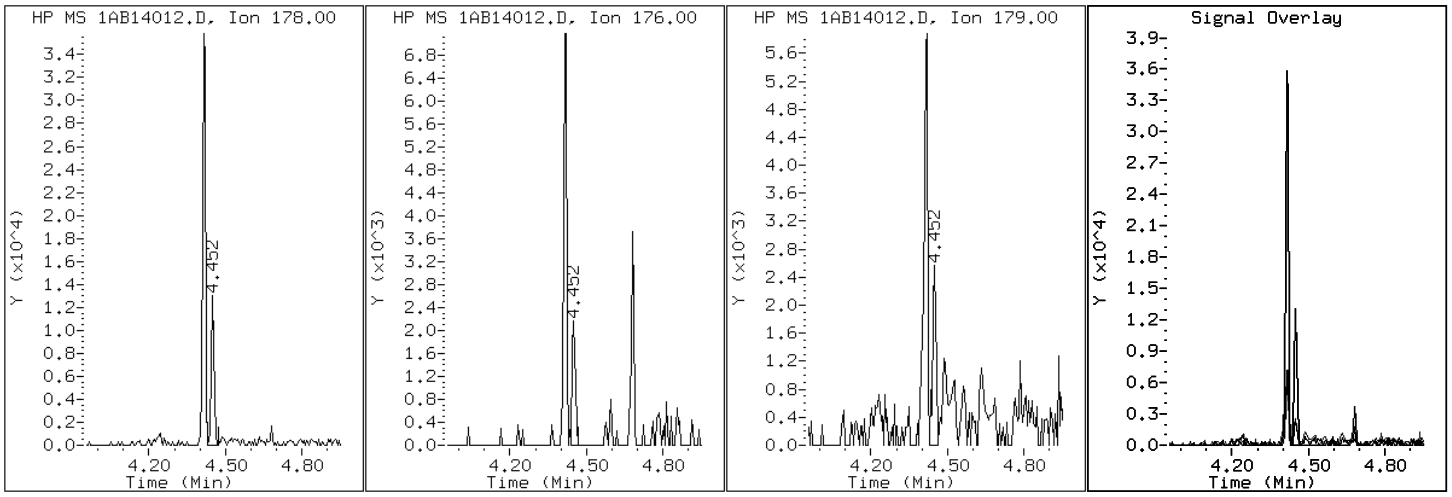
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

12 Anthracene



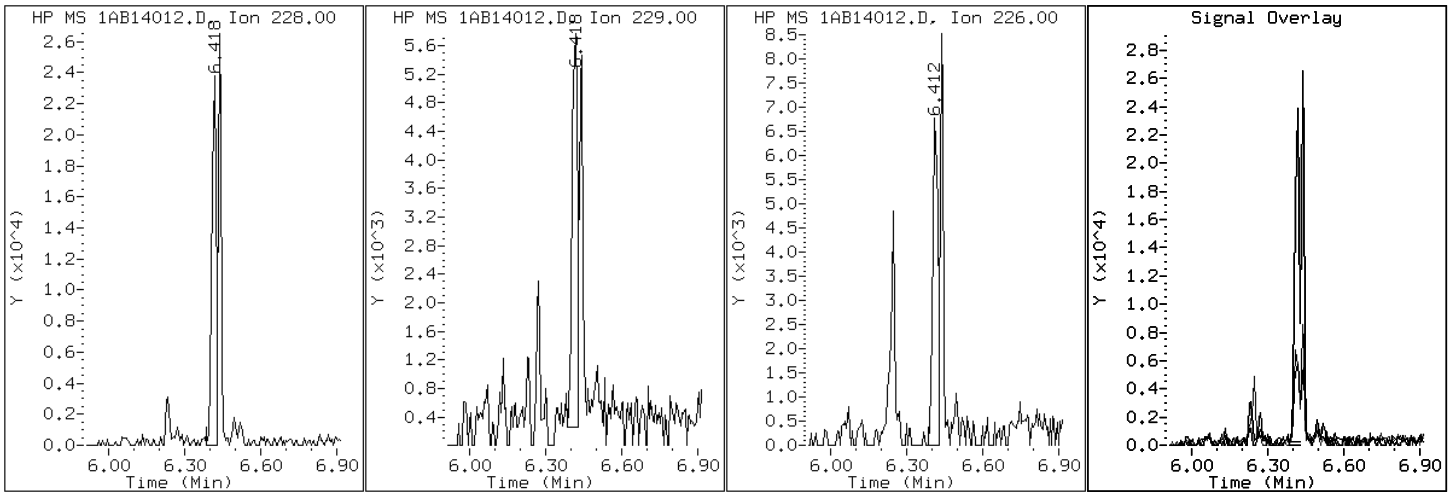
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

17 Benzo(a)anthracene



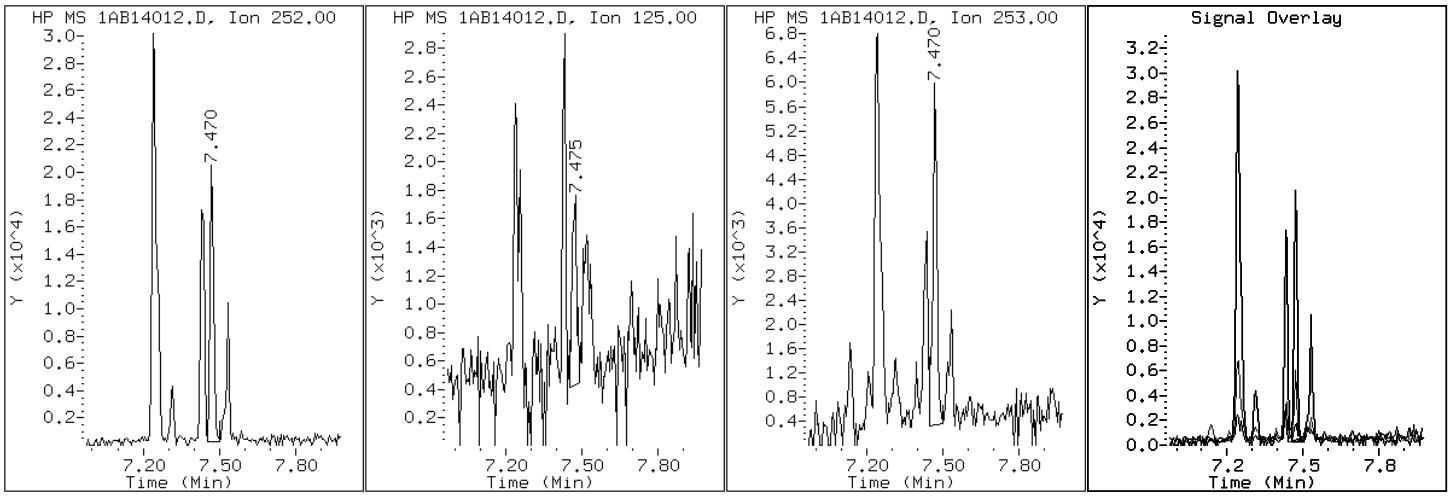
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

22 Benzo(a)pyrene



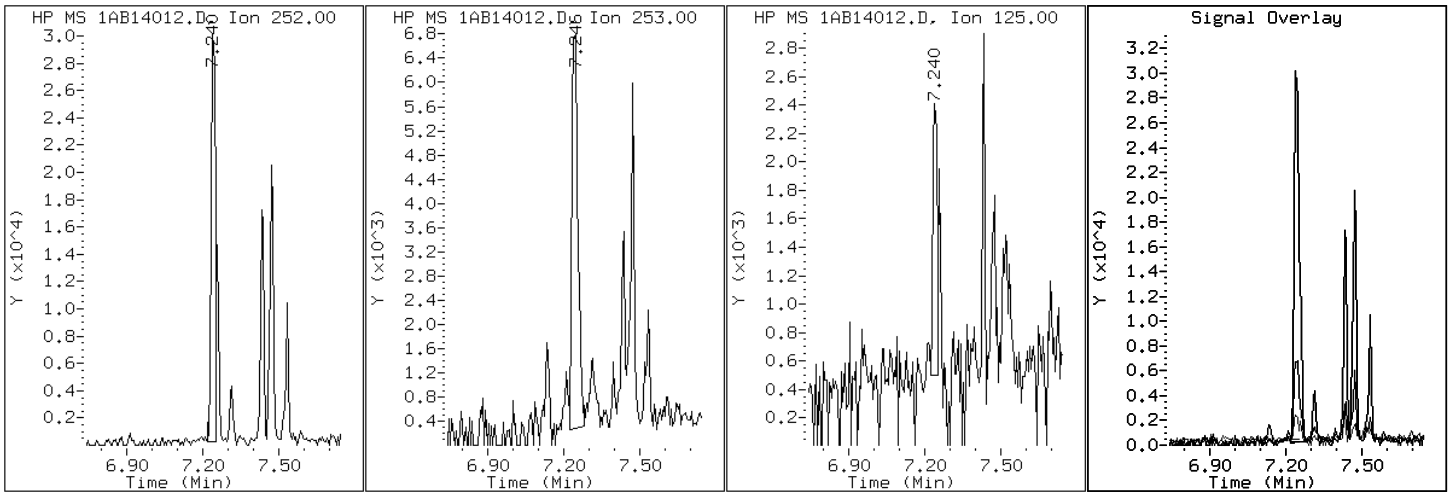
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

20 Benzo(b)fluoranthene



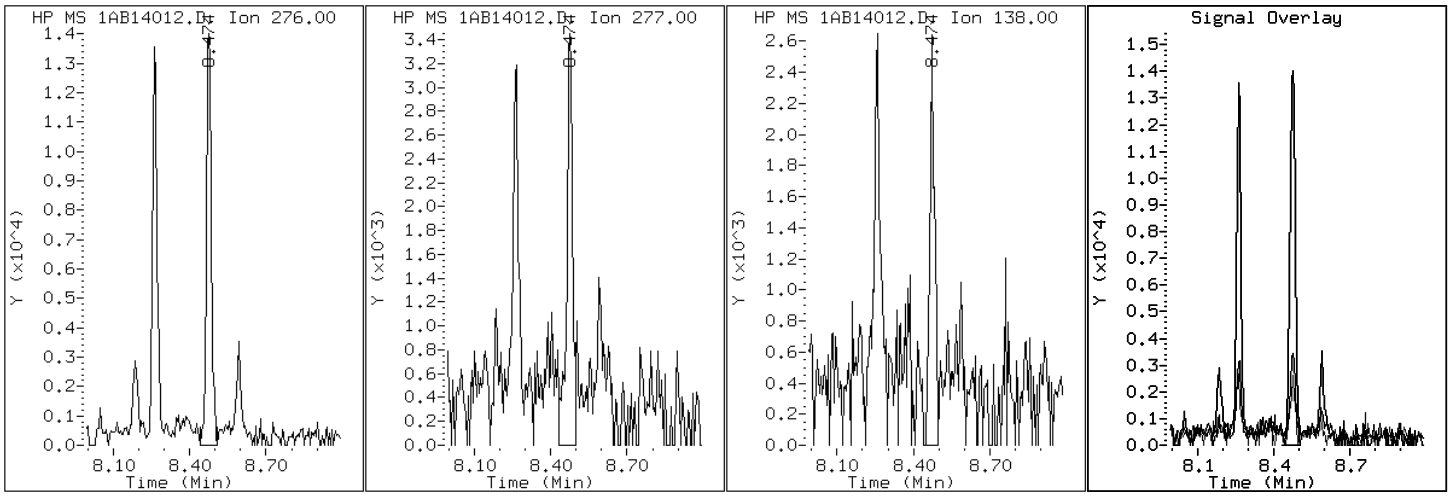
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

26 Benzo(g,h,i)perylene



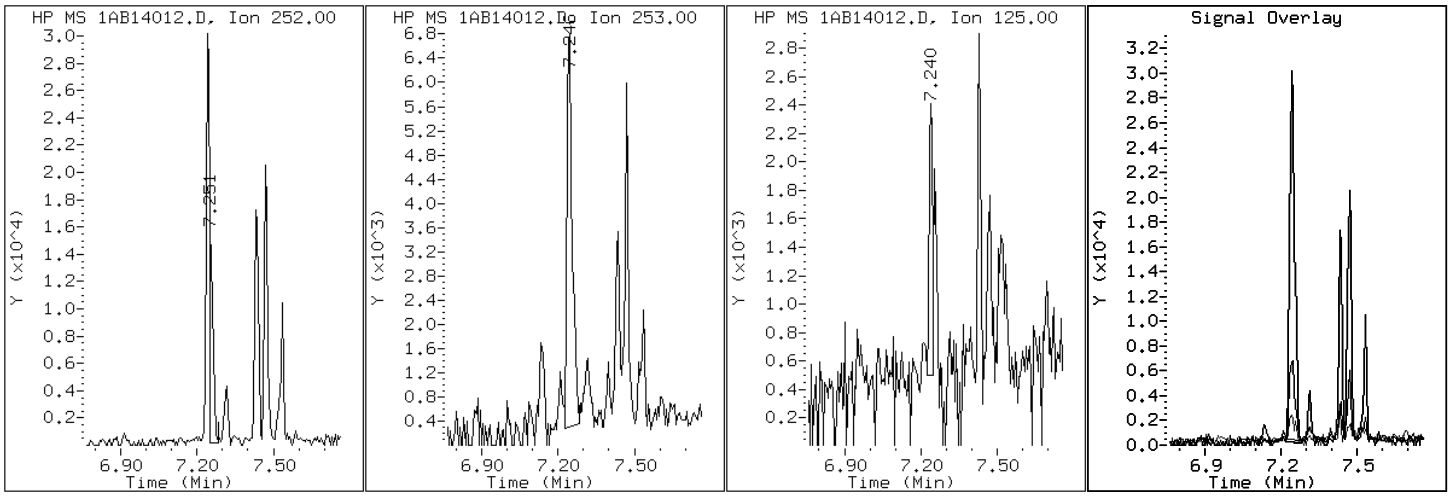
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

21 Benzo(k)fluoranthene



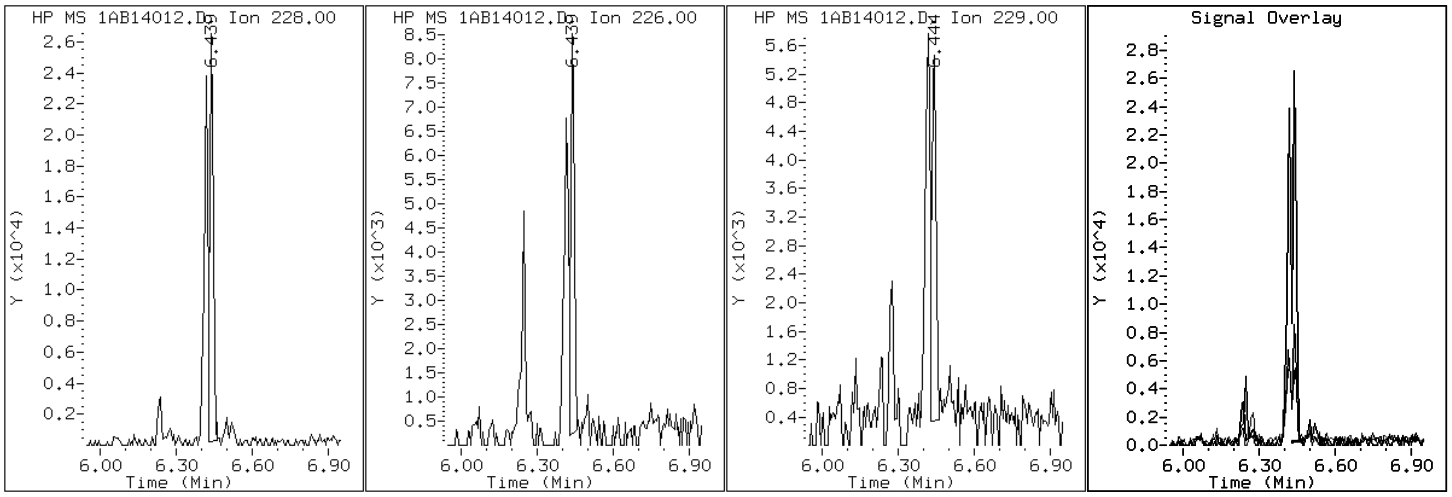
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

19 Chrysene



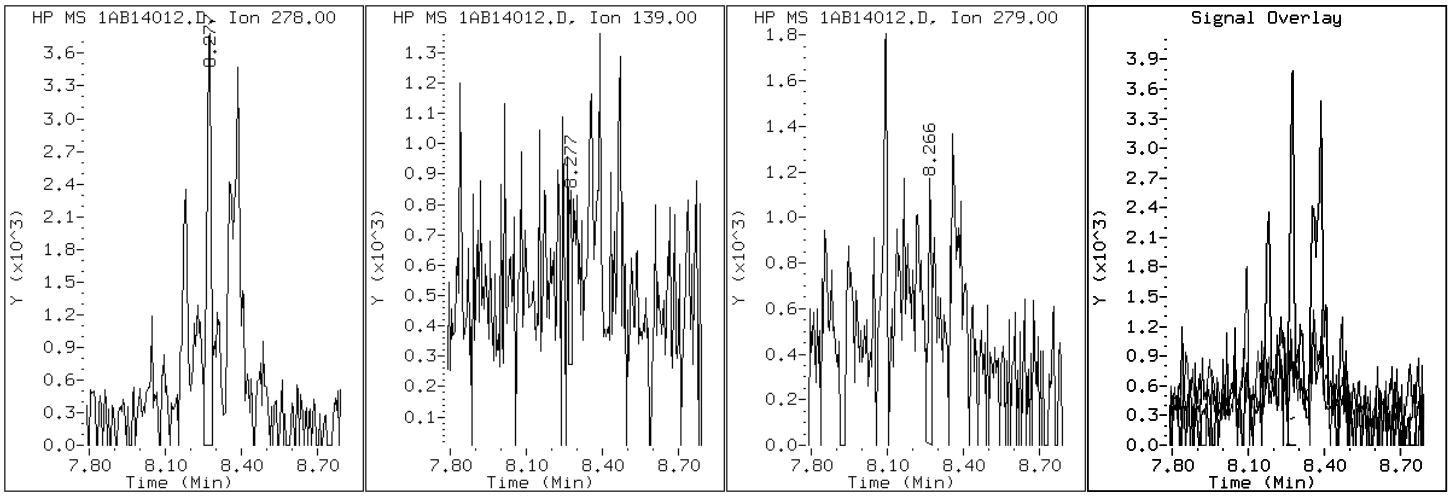
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

25 Dibenzo(a,h)anthracene



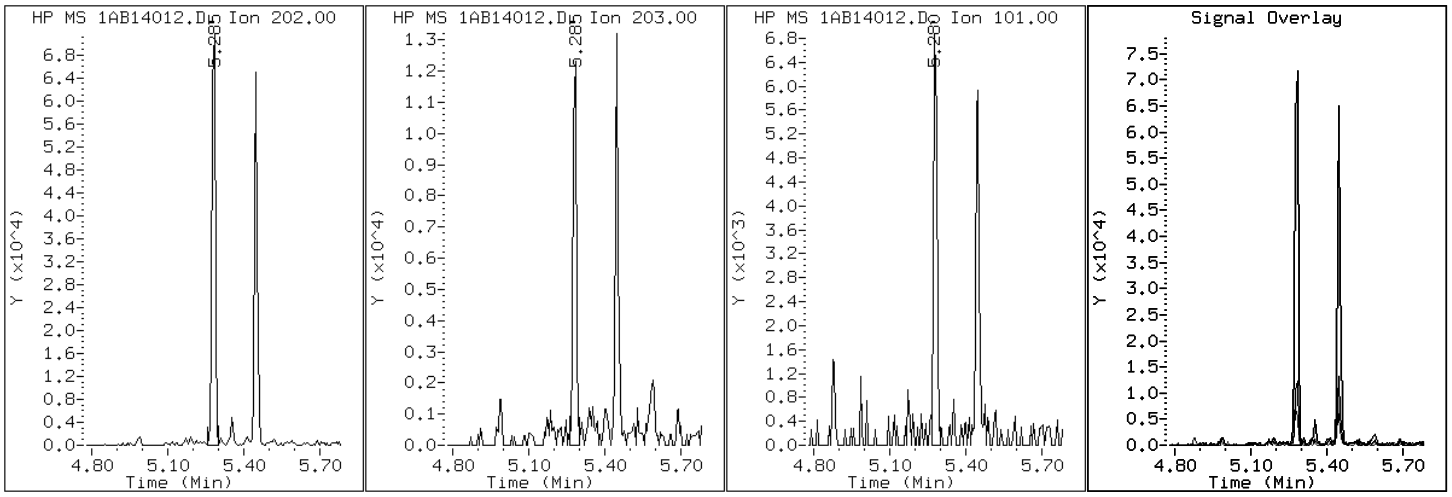
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

15 Fluoranthene



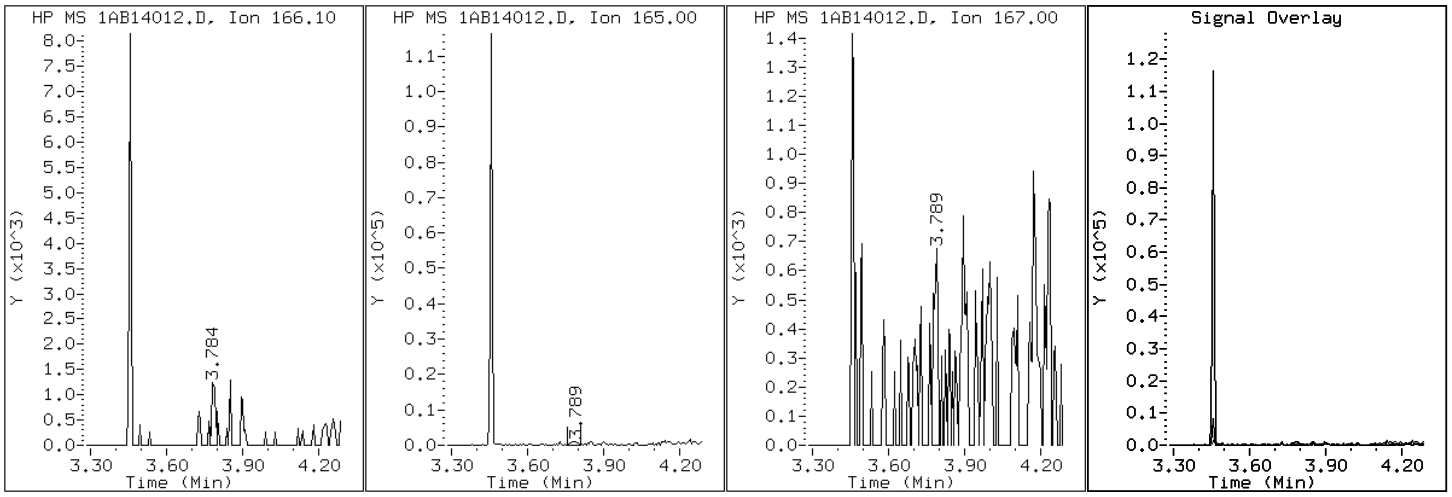
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

9 Fluorene



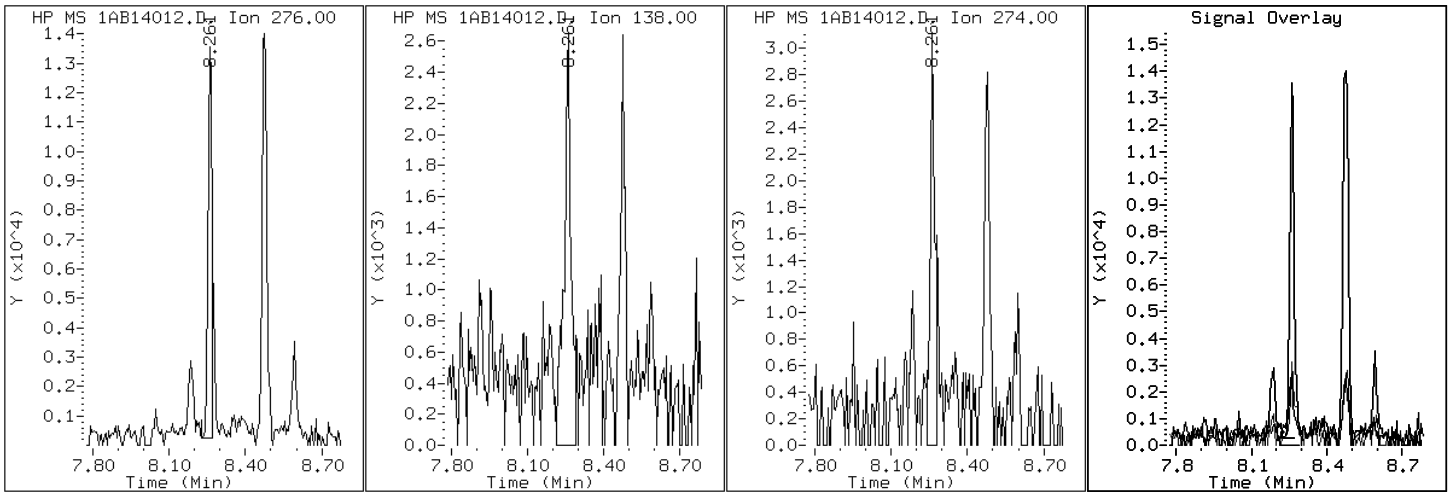
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

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



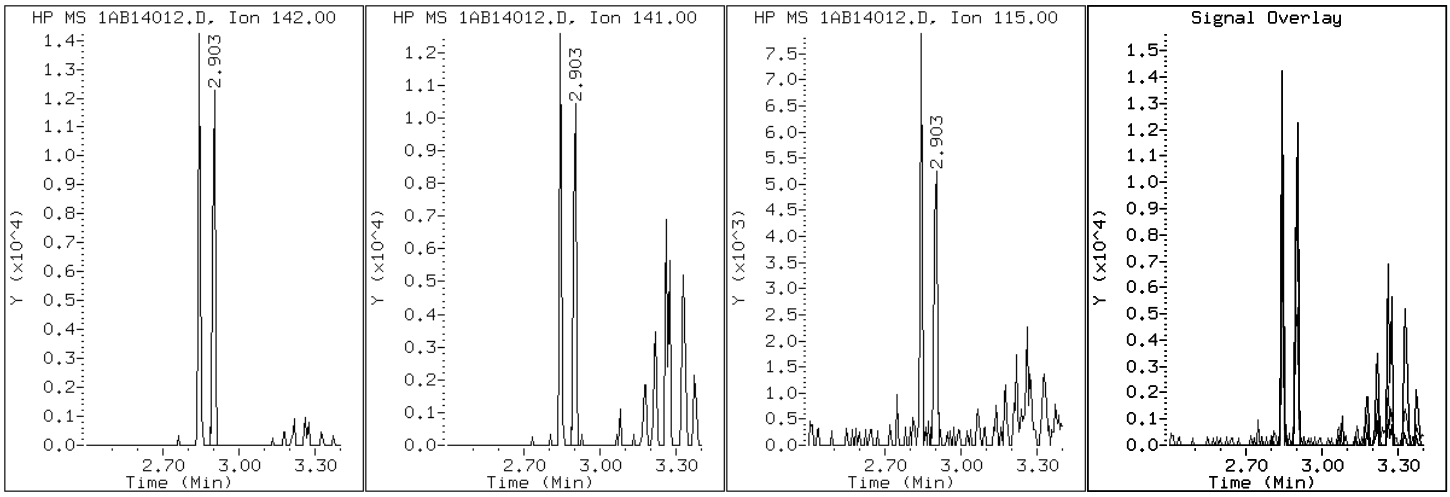
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

4 1-Methylnaphthalene



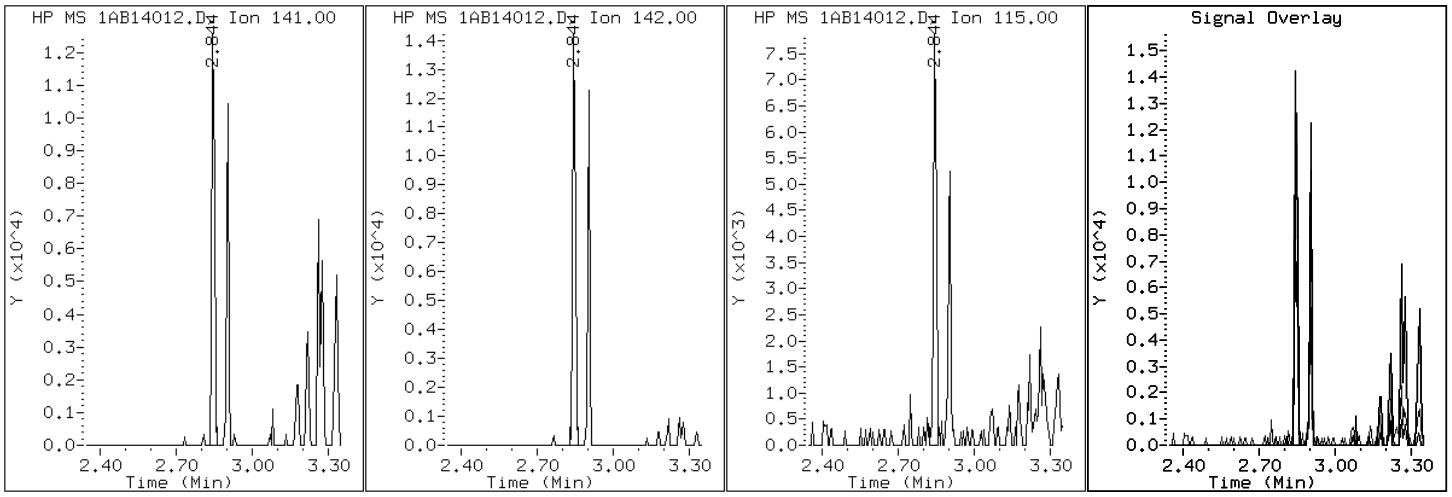
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

3 2-Methylnaphthalene



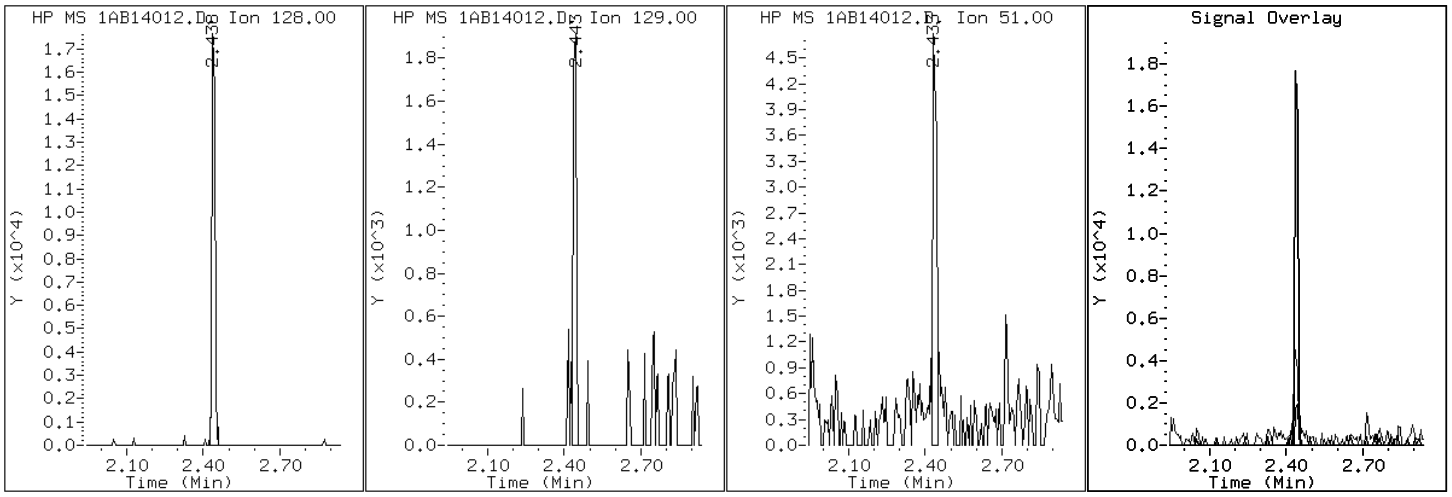
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

2 Naphthalene



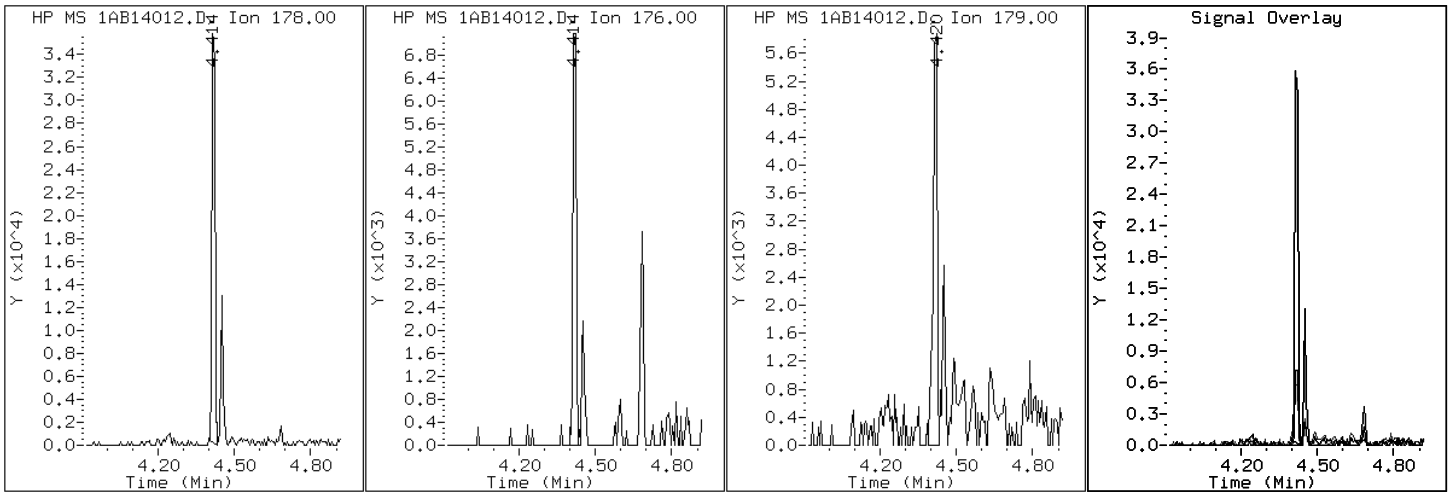
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

11 Phenanthrene



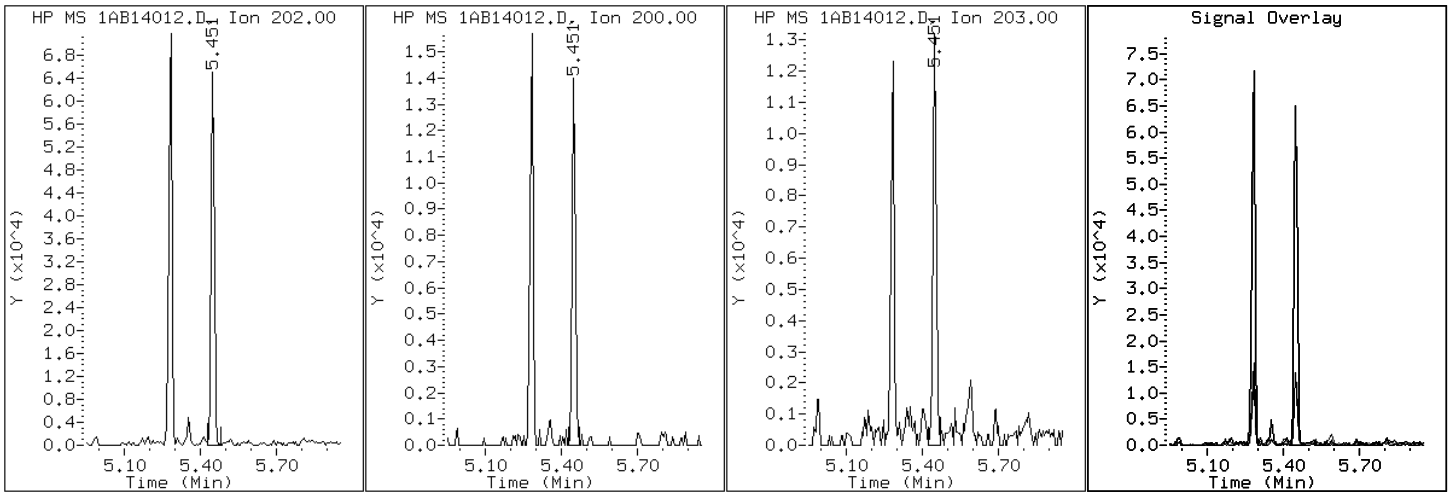
Data File: 1AB14012.D

Date: 14-FEB-2013 12:38

Client ID: CV0748L-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-24-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14012.D
Inj. Date and Time: 14-FEB-2013 12:38
Instrument ID: BSMA5973.i
Client ID: CV0748L-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

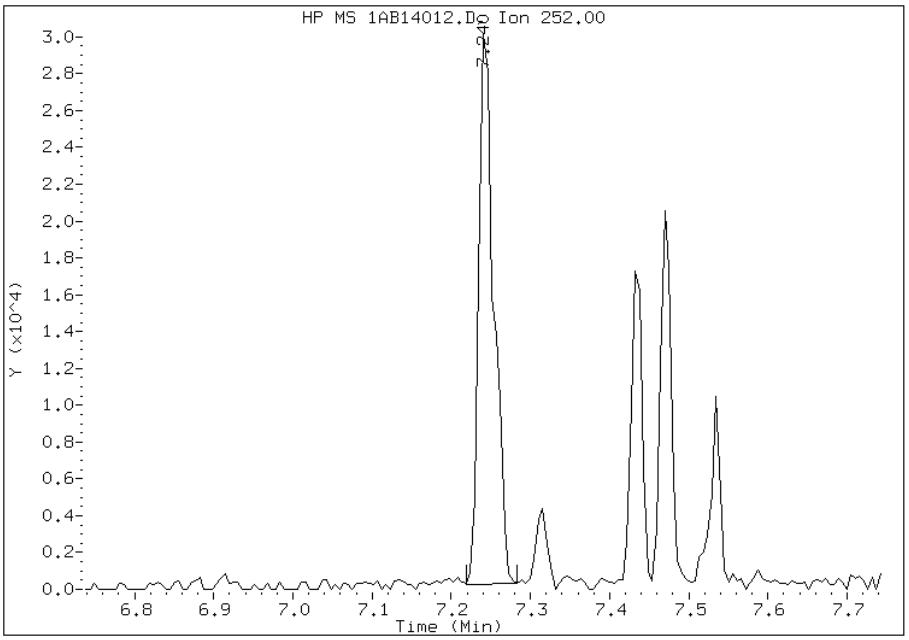
Processing Integration Results

RT: 7.24

Response: 39366

Amount: 3

Conc: 200



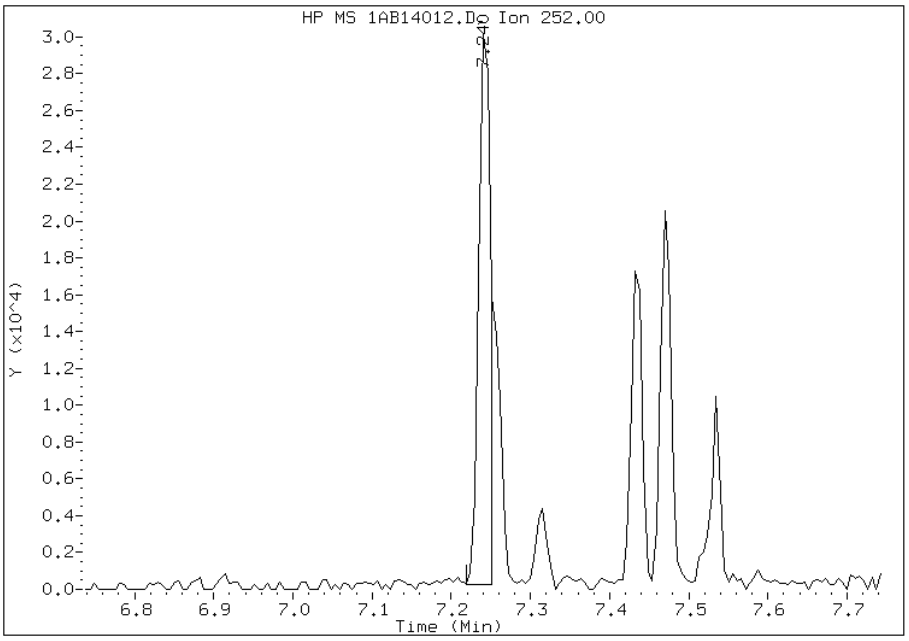
Manual Integration Results

RT: 7.24

Response: 30622

Amount: 2

Conc: 156



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:17
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14012.D
Inj. Date and Time: 14-FEB-2013 12:38
Instrument ID: BSMA5973.i
Client ID: CV0748L-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

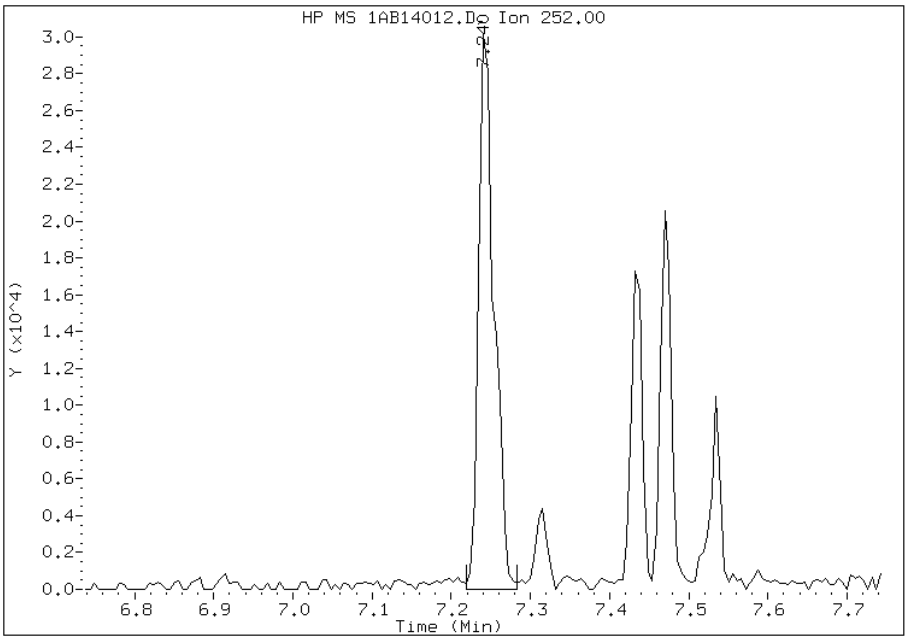
Processing Integration Results

RT: 7.24

Response: 40533

Amount: 3

Conc: 197



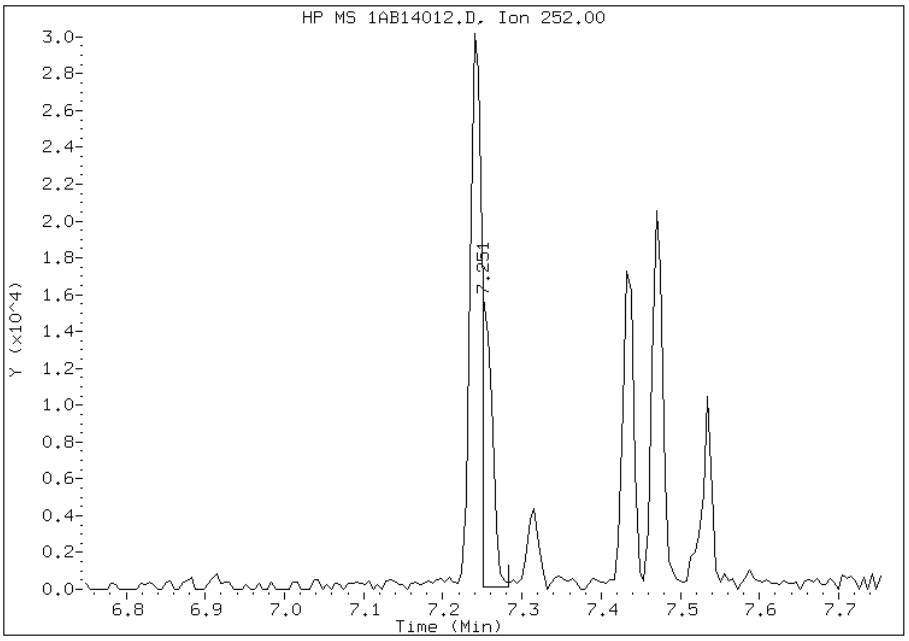
Manual Integration Results

RT: 7.25

Response: 14048

Amount: 1

Conc: 68



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14012.D
Inj. Date and Time: 14-FEB-2013 12:38
Instrument ID: BSMA5973.i
Client ID: CV0748L-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

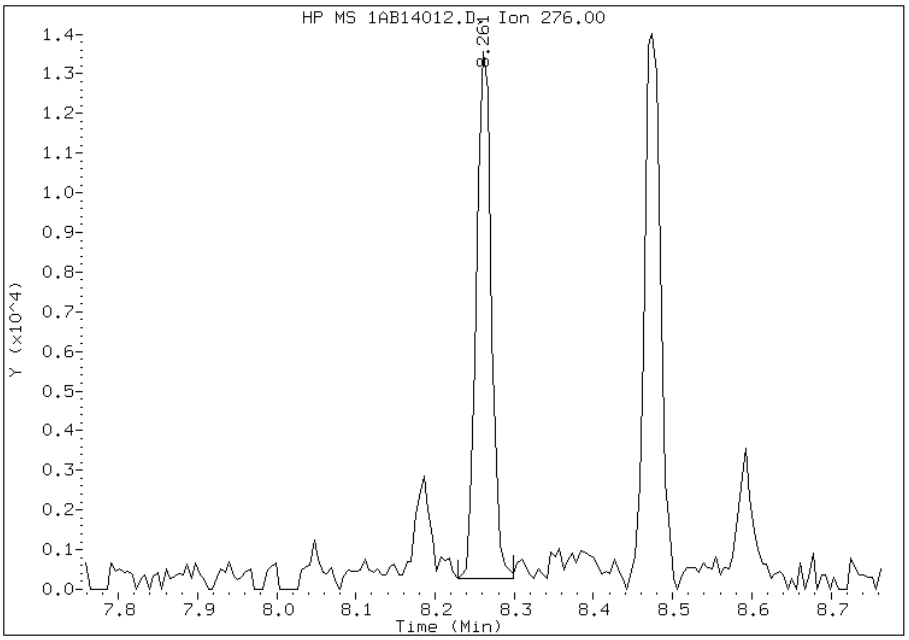
Processing Integration Results

RT: 8.26

Response: 17286

Amount: 2

Conc: 117



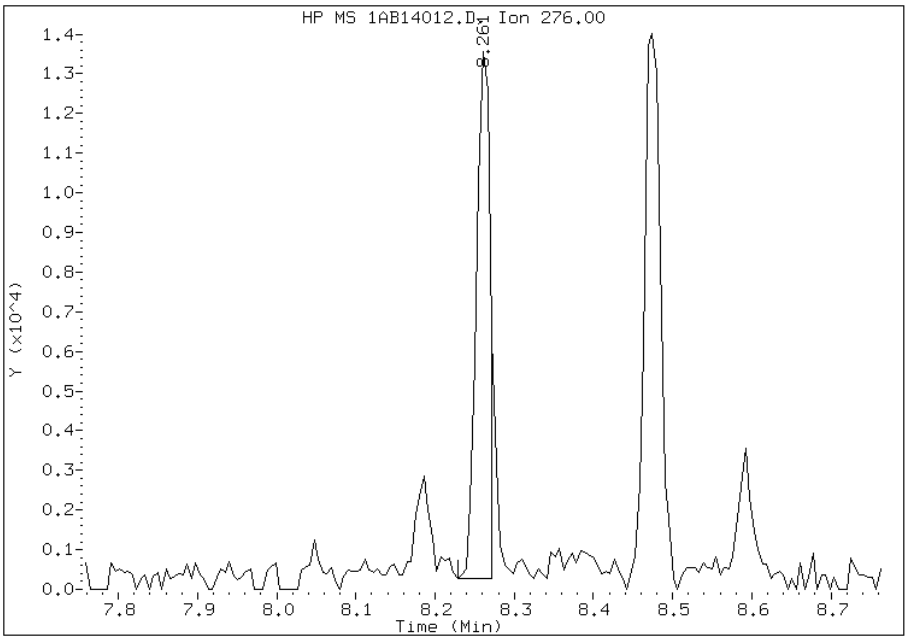
Manual Integration Results

RT: 8.26

Response: 15841

Amount: 1

Conc: 107



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748M-CS | Lab Sample ID: 680-87218-25

Matrix: Solid | Lab File ID: 1AB14013.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:31

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.42(g) | Date Analyzed: 02/14/2013 12:53

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

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

% Moisture: 0.9 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	68		39	4.9
120-12-7	Anthracene	98		8.2	4.1
56-55-3	Benzo[a]anthracene	320		7.9	3.8
50-32-8	Benzo[a]pyrene	240		10	5.1
205-99-2	Benzo[b]fluoranthene	360		12	6.0
191-24-2	Benzo[g,h,i]perylene	240		20	4.3
207-08-9	Benzo[k]fluoranthene	180		7.9	3.5
218-01-9	Chrysene	340		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	78		20	4.0
206-44-0	Fluoranthene	420		20	3.9
86-73-7	Fluorene	18	J	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	210		20	7.0
90-12-0	1-Methylnaphthalene	85		39	4.3
91-57-6	2-Methylnaphthalene	110		39	7.0
91-20-3	Naphthalene	73		39	4.3
85-01-8	Phenanthrene	300		7.9	3.8
129-00-0	Pyrene	370		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14013.D
Lab Smp Id: 680-87218-A-25-A Client Smp ID: CV0748M-CS
Inj Date : 14-FEB-2013 12:53
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-25-a
Misc Info : 680-87218-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.420	Weight Extracted
M	0.94518	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.432	2.430	(1.000)	865718	40.0000	
* 6 Acenaphthene-d10	164	3.458	3.461	(1.000)	511950	40.0000	
* 10 Phenanthrene-d10	188	4.403	4.402	(1.000)	689857	40.0000	
$ 14 o-Terphenyl	230	4.681	4.685	(1.063)	69414	6.92479	453.3634
* 18 Chrysene-d12	240	6.433	6.426	(1.000)	524199	40.0000	
* 23 Perylene-d12	264	7.529	7.527	(1.000)	684243	40.0000	
2 Naphthalene	128	2.438	2.441	(1.002)	23544	1.12045	73.3554
3 2-Methylnaphthalene	141	2.844	2.847	(1.169)	18799	1.66997	109.3322
4 1-Methylnaphthalene	142	2.902	2.900	(1.193)	16463	1.29193	84.5820
5 Acenaphthylene	152	3.372	3.371	(0.975)	23507	1.03989	68.0813
9 Fluorene	166	3.789	3.787	(1.096)	4201	0.27307	17.8777(Q)
11 Phenanthrene	178	4.420	4.418	(1.004)	86159	4.57416	299.4684
12 Anthracene	178	4.452	4.455	(1.011)	28704	1.49465	97.8543
13 Carbazole	167	4.606	4.610	(1.046)	12035	0.73108	47.8638

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.285	5.283	(1.200)	119608	6.40479	419.3192
16 Pyrene	202	5.451	5.454	(0.847)	106355	5.61791	367.8022
17 Benzo(a)anthracene	228	6.423	6.416	(0.998)	77610	4.95851	324.6321
19 Chrysene	228	6.444	6.448	(1.002)	79329	5.19978	340.4277
20 Benzo(b)fluoranthene	252	7.251	7.244	(0.963)	105829	5.54154	362.8029(M)
21 Benzo(k)fluoranthene	252	7.256	7.265	(0.964)	55327	2.77093	181.4117(M)
22 Benzo(a)pyrene	252	7.481	7.479	(0.994)	66215	3.65120	239.0425
24 Indeno(1,2,3-cd)pyrene	276	8.277	8.275	(1.099)	45016	3.14357	205.8081(M)
25 Dibenzo(a,h)anthracene	278	8.287	8.291	(1.101)	17033	1.18980	77.8956
26 Benzo(g,h,i)perylene	276	8.496	8.494	(1.128)	53810	3.62710	237.4652

QC Flag Legend

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

Data File: 1AB14013.D

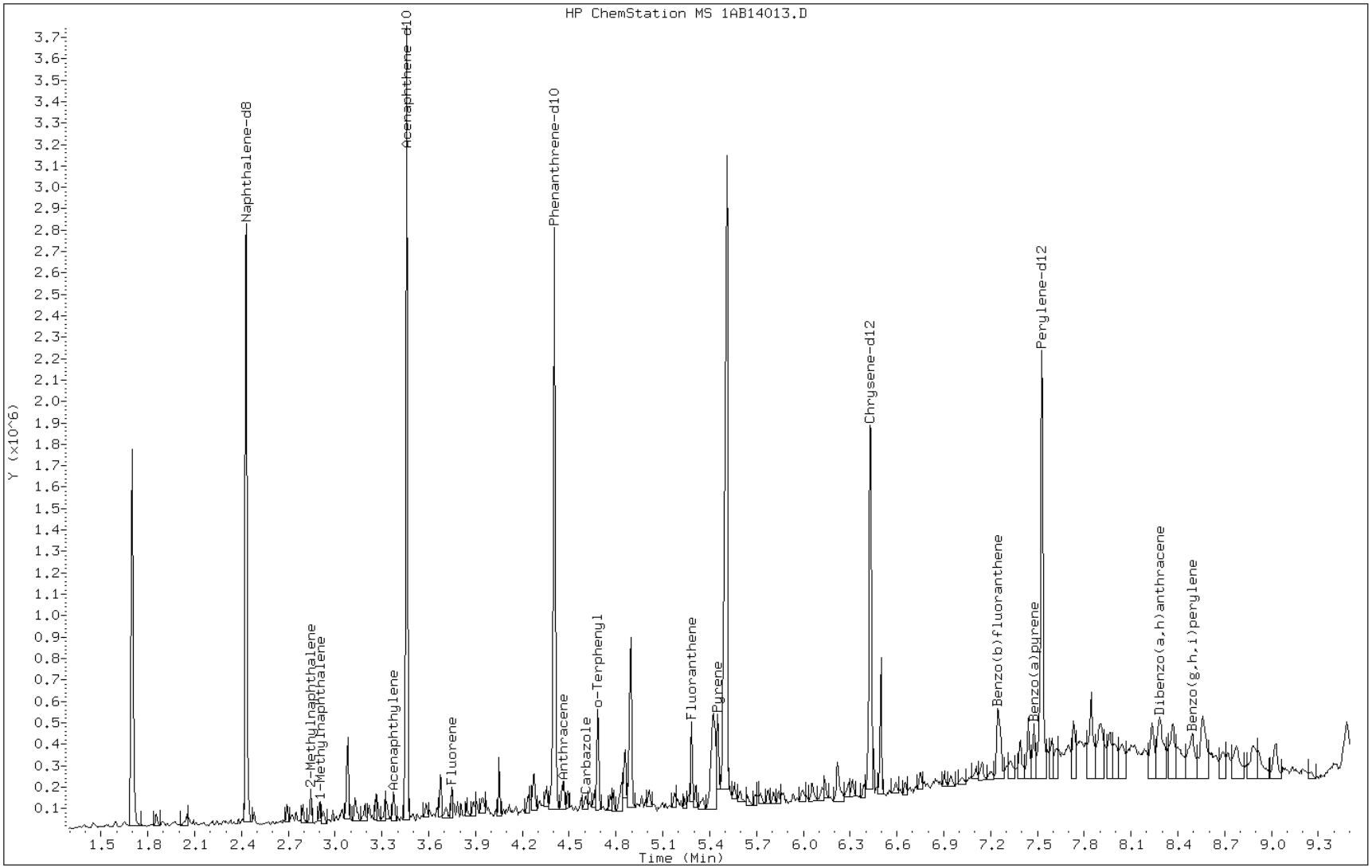
Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a

Operator: SCC



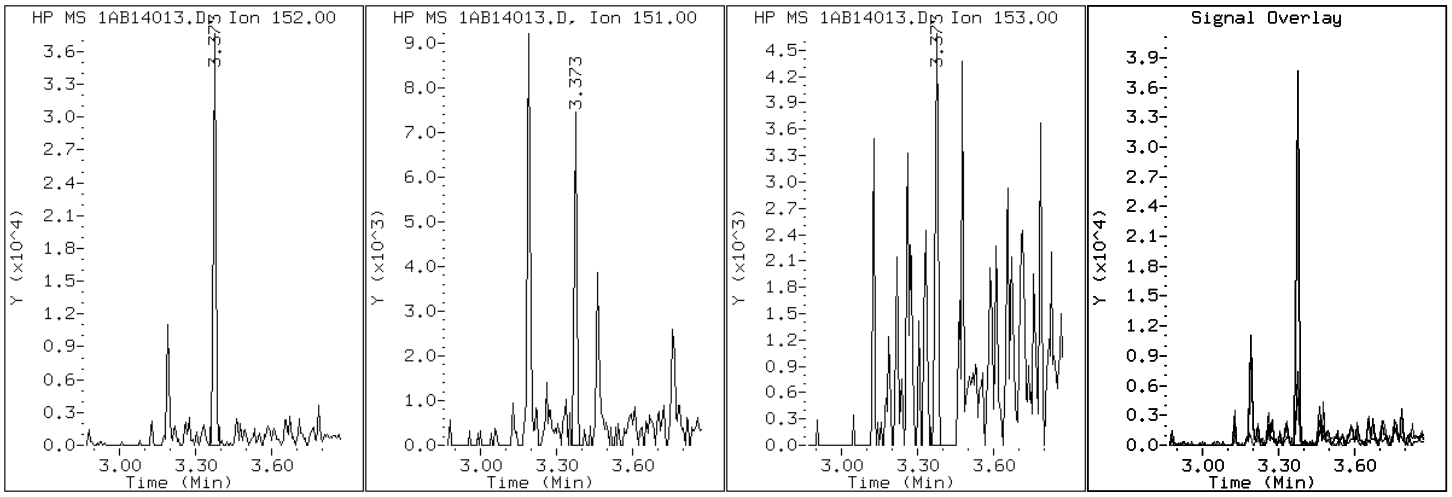
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

5 Acenaphthylene



Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

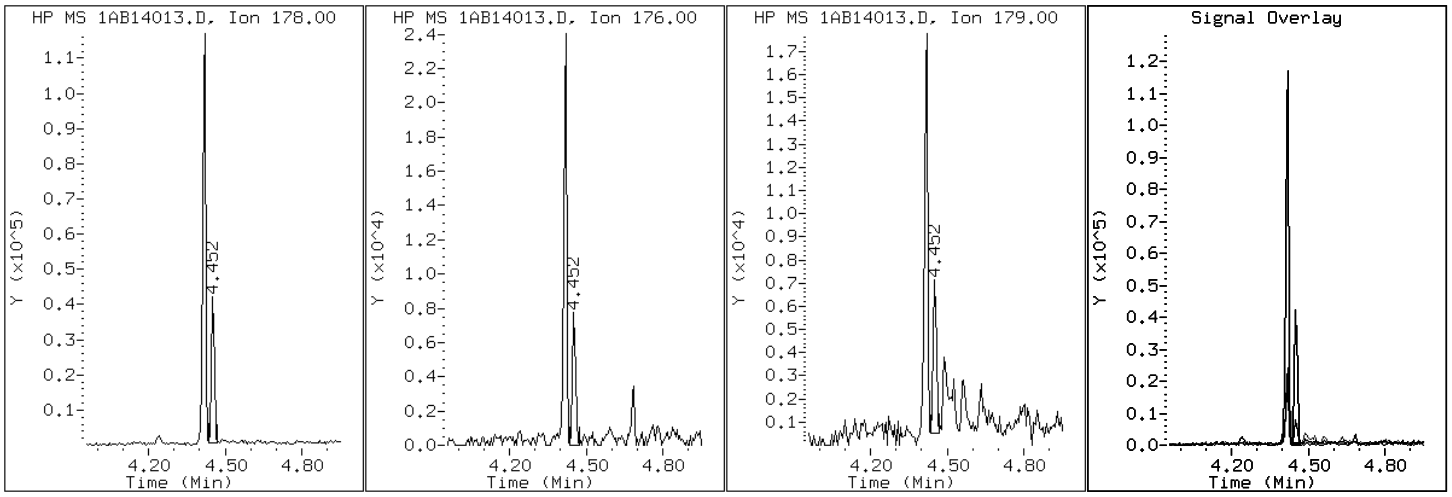
Client ID: CV0748M-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a

Operator: SCC

12 Anthracene



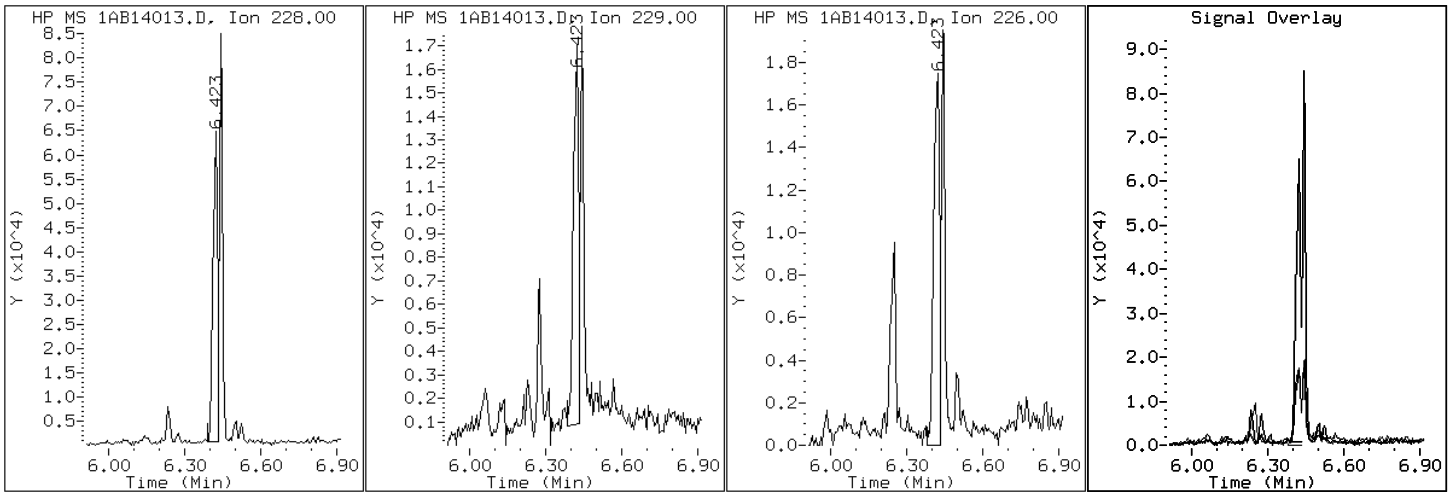
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

17 Benzo(a)anthracene



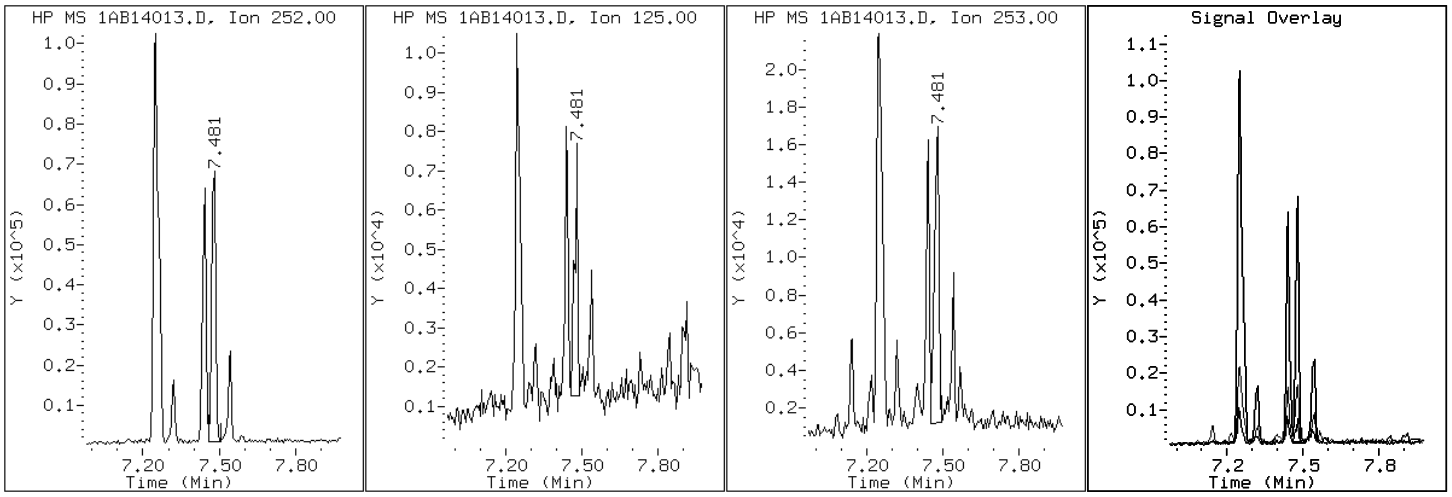
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

22 Benzo(a)pyrene



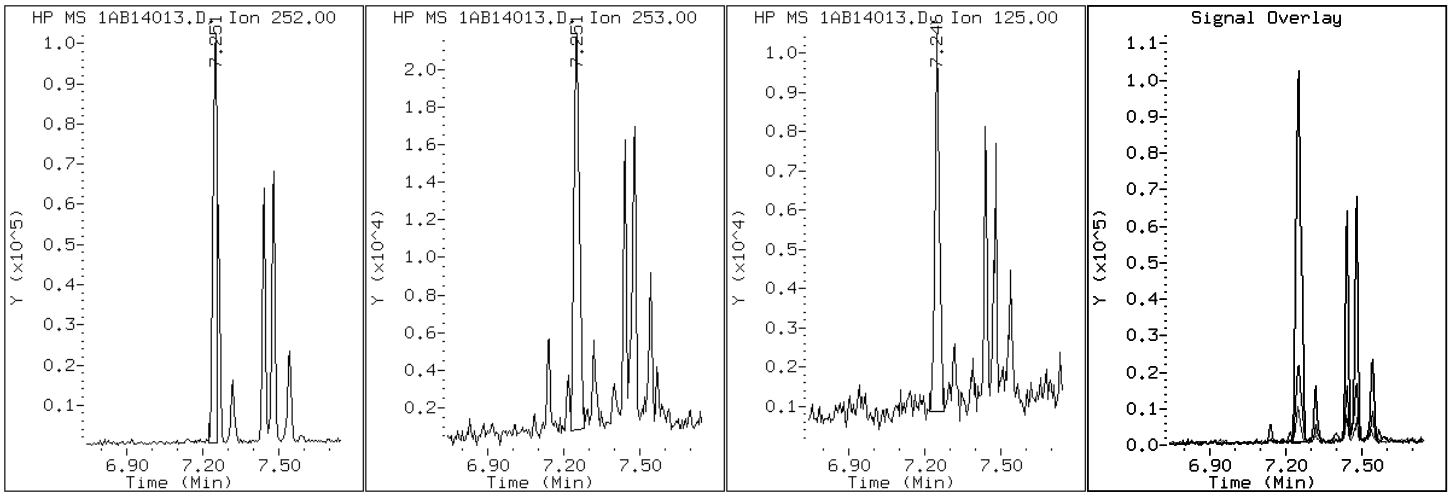
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

20 Benzo(b)fluoranthene



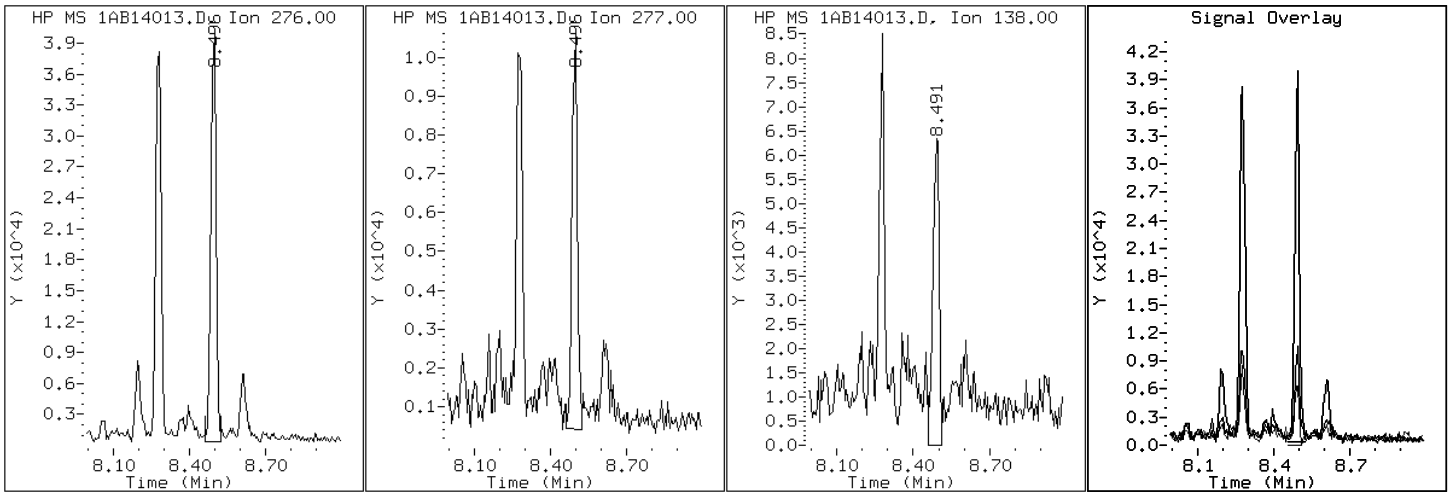
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

26 Benzo(g,h,i)perylene



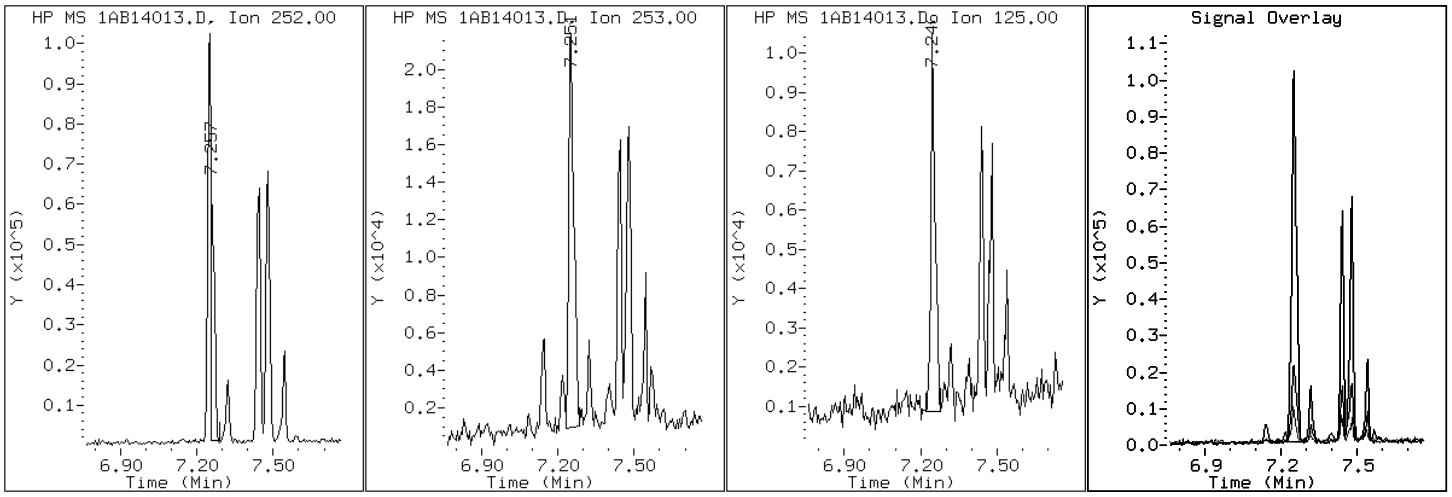
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

21 Benzo(k)fluoranthene



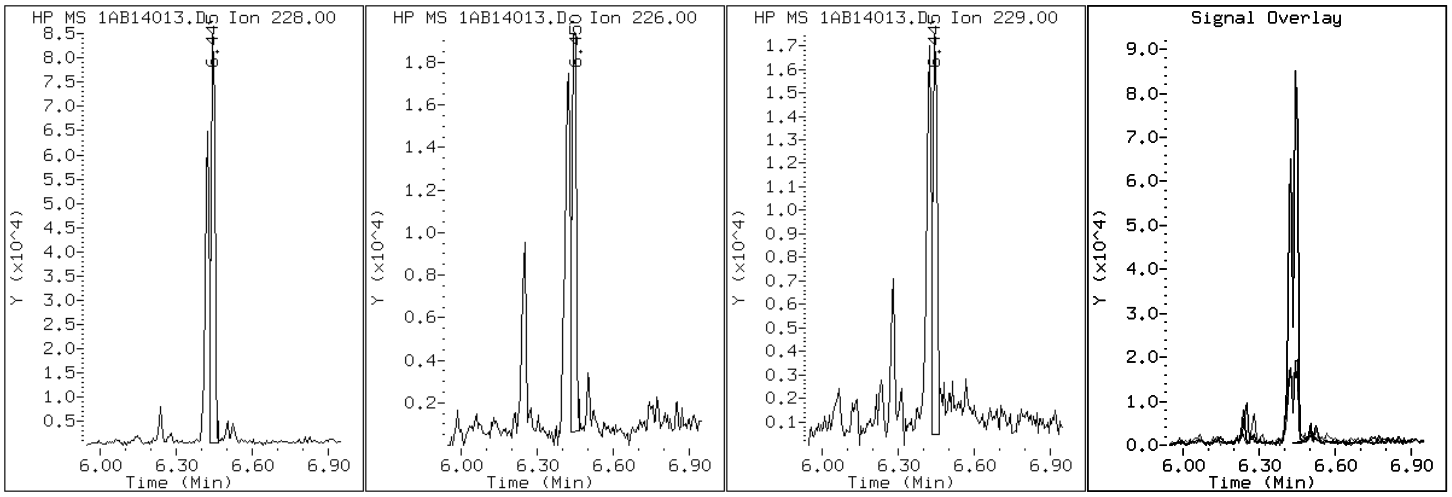
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

19 Chrysene



Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

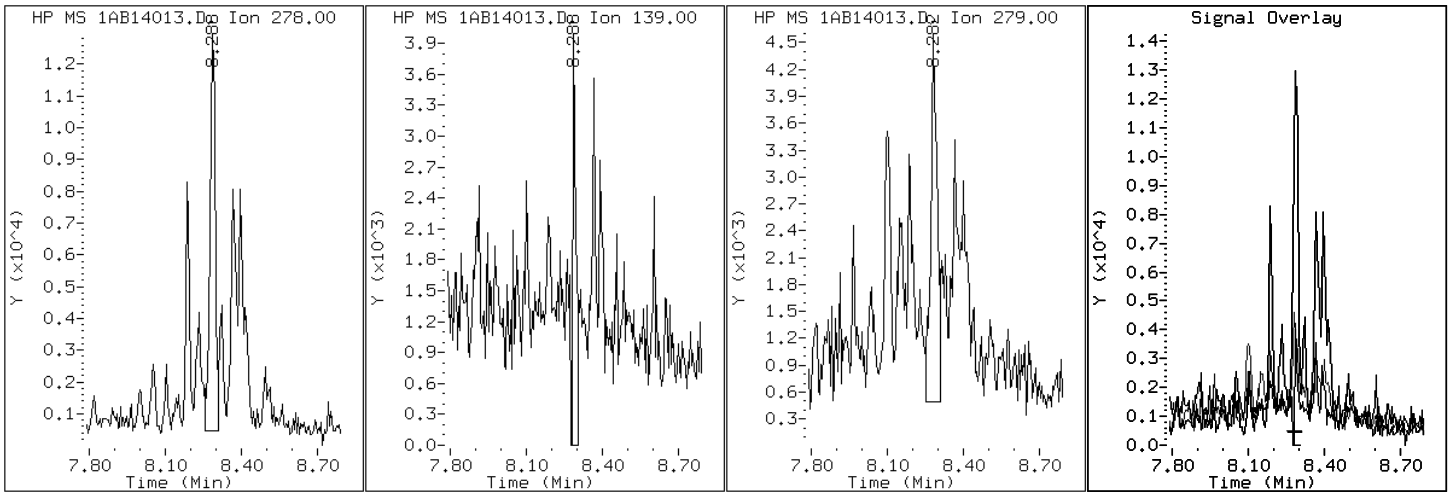
Client ID: CV0748M-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

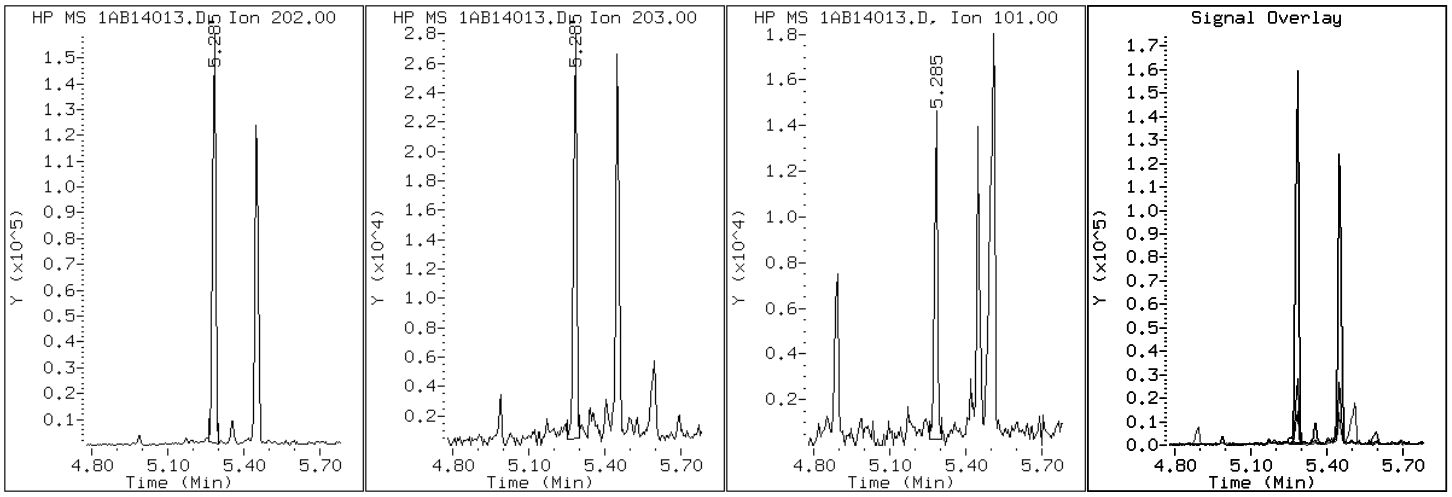
Client ID: CV0748M-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a

Operator: SCC

15 Fluoranthene



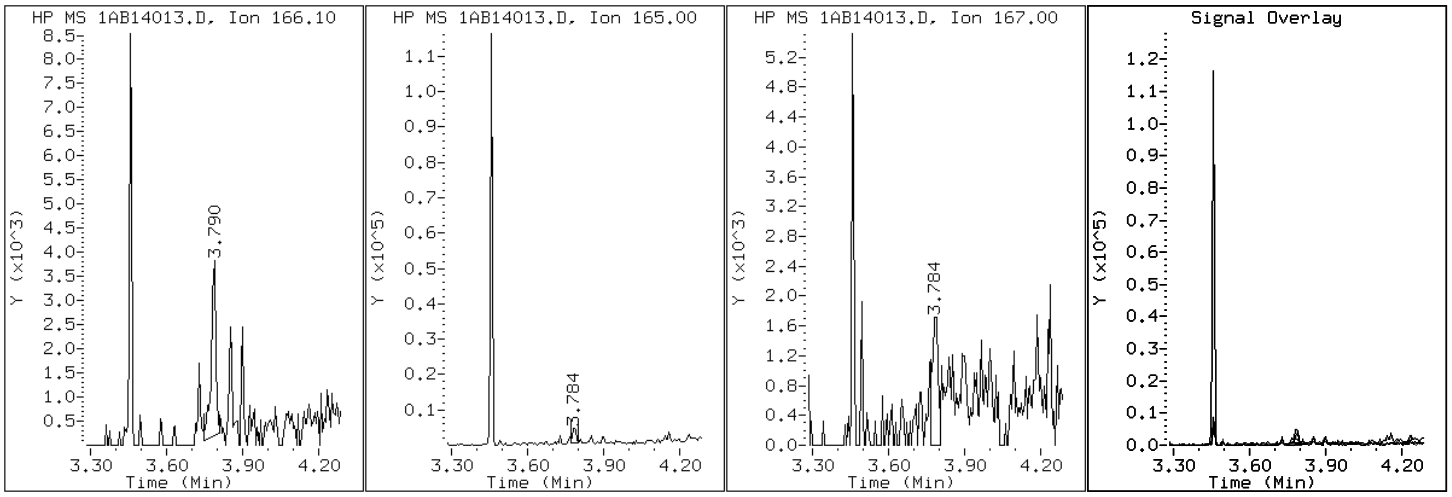
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

9 Fluorene



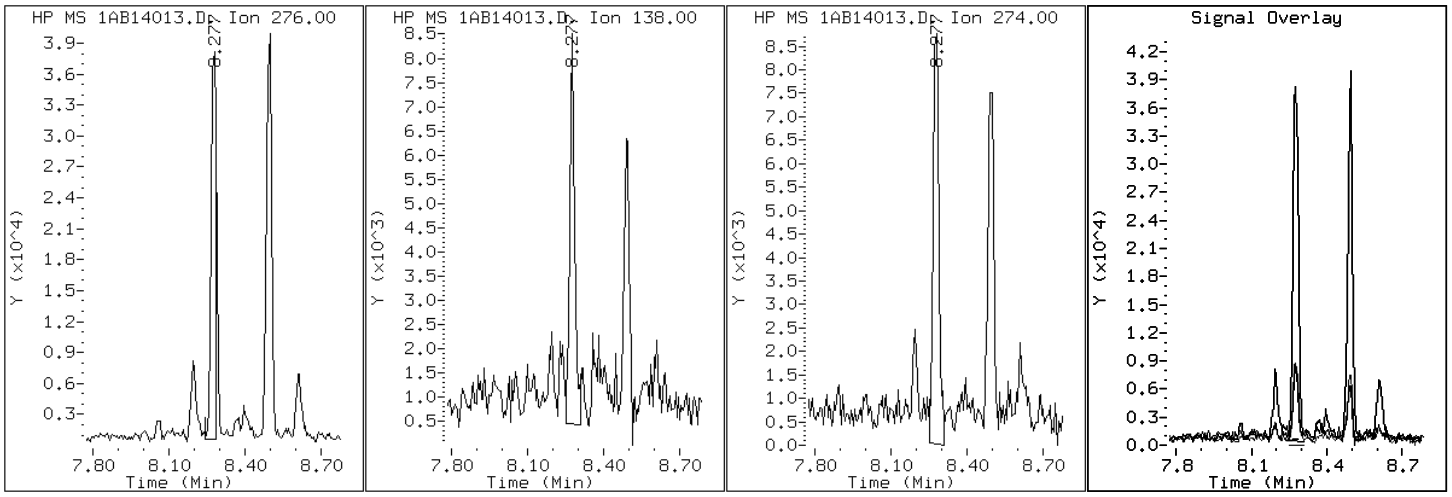
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

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



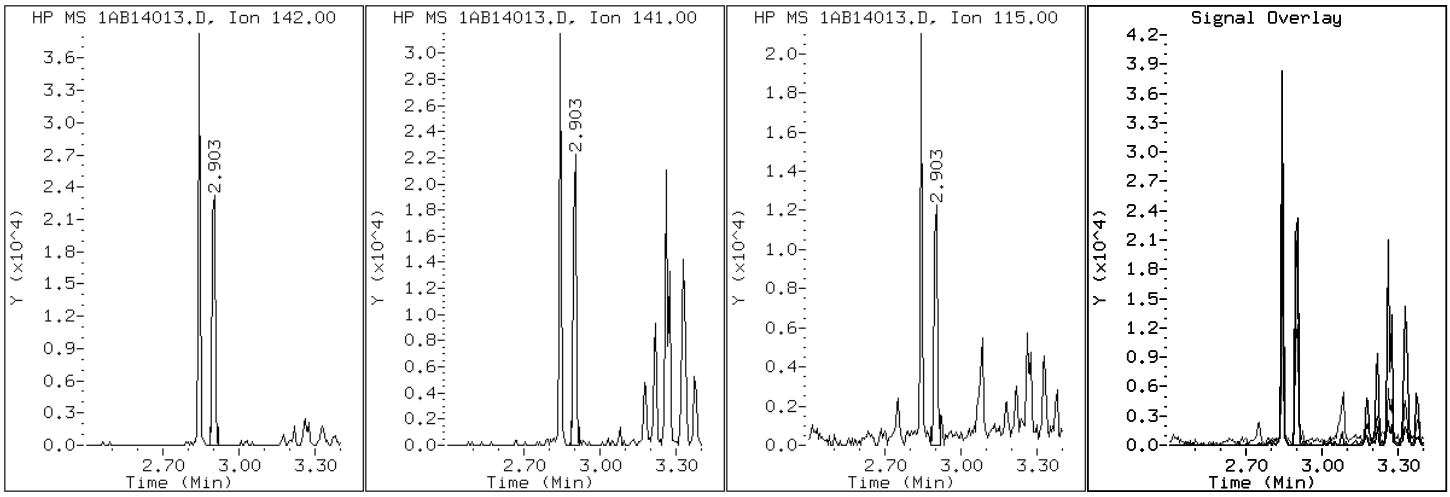
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

4 1-Methylnaphthalene



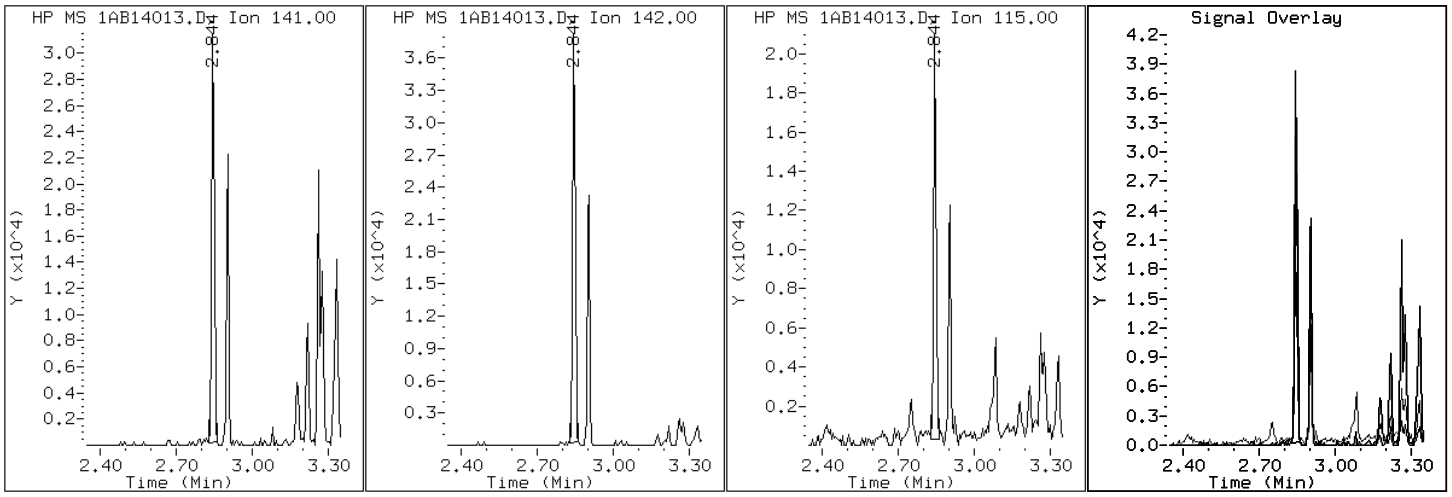
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

3 2-Methylnaphthalene



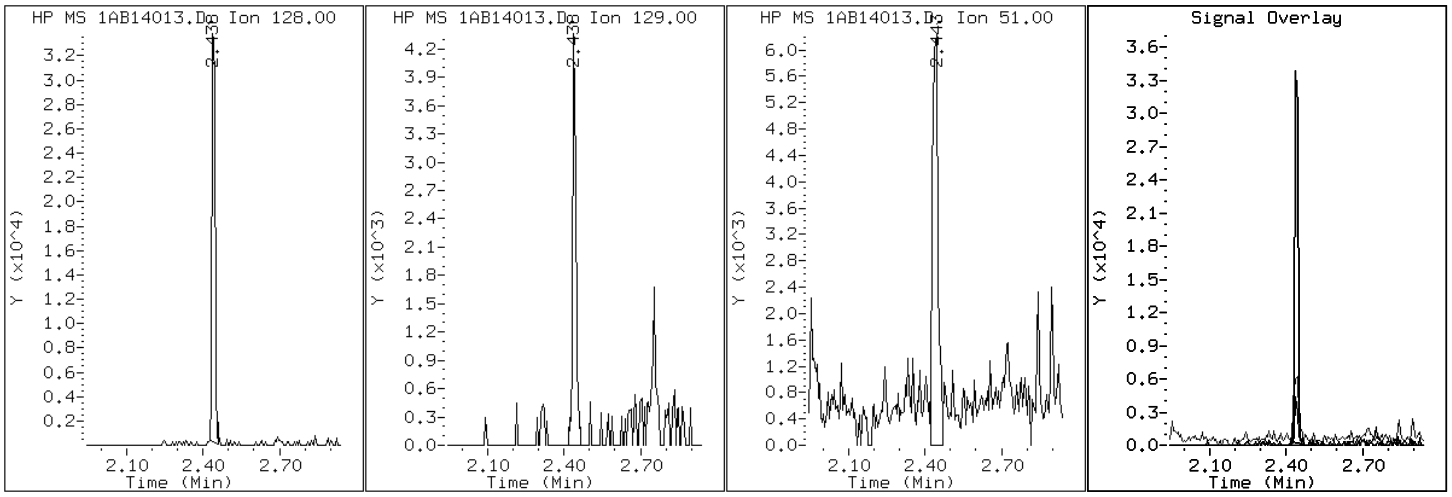
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

2 Naphthalene



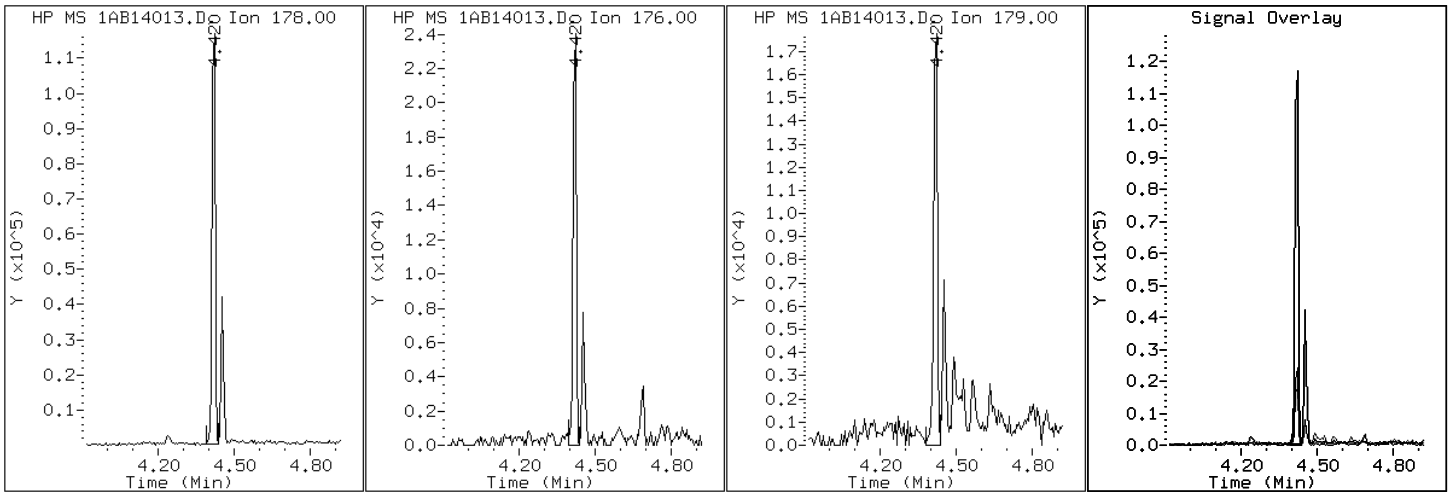
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

11 Phenanthrene



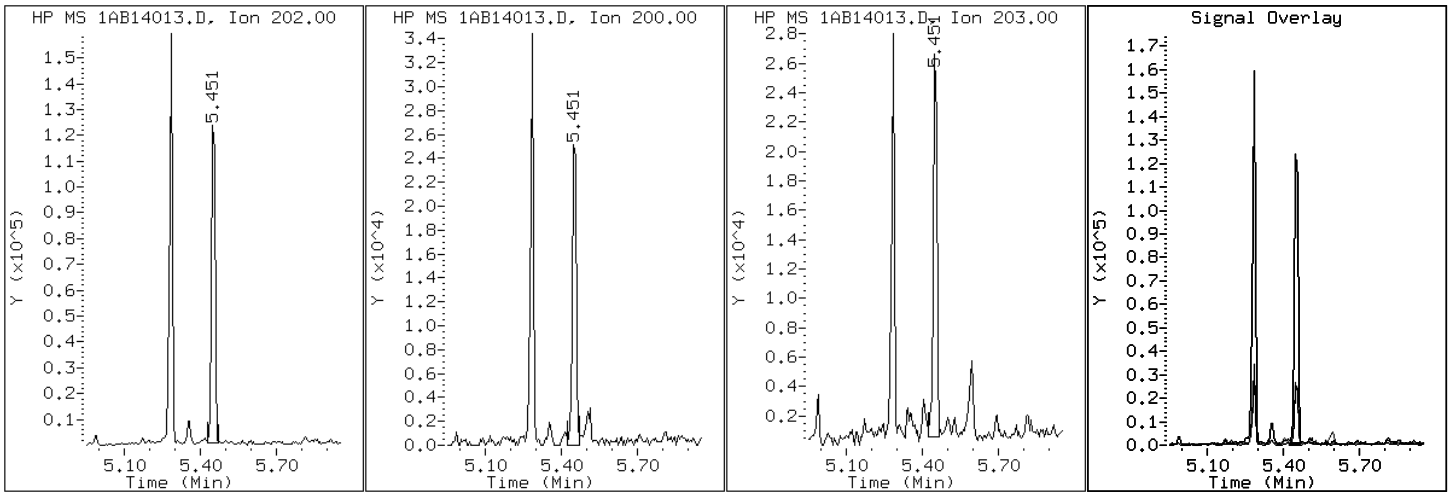
Data File: 1AB14013.D

Date: 14-FEB-2013 12:53

Client ID: CV0748M-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-25-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14013.D
Inj. Date and Time: 14-FEB-2013 12:53
Instrument ID: BSMA5973.i
Client ID: CV0748M-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

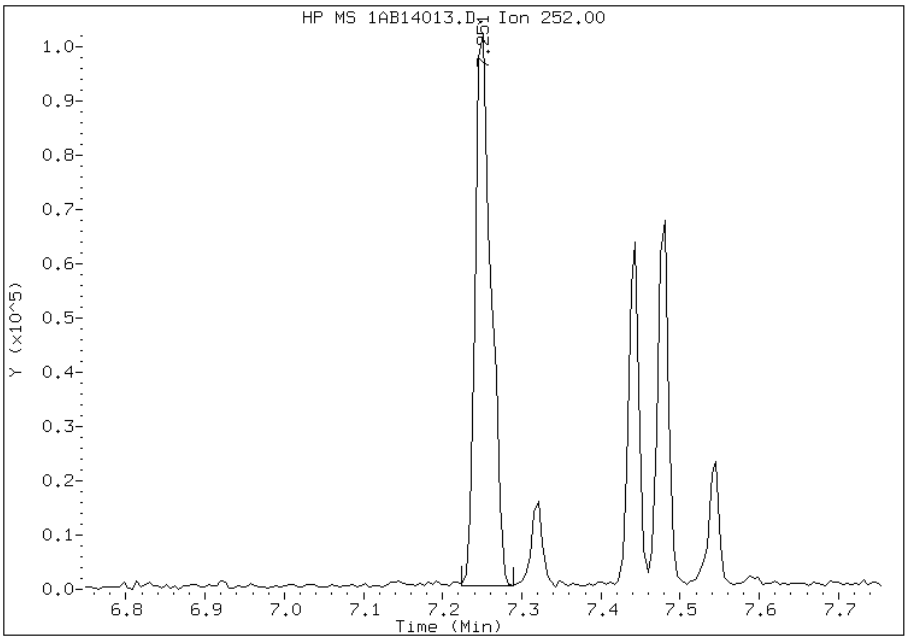
Processing Integration Results

RT: 7.25

Response: 140807

Amount: 7

Conc: 483



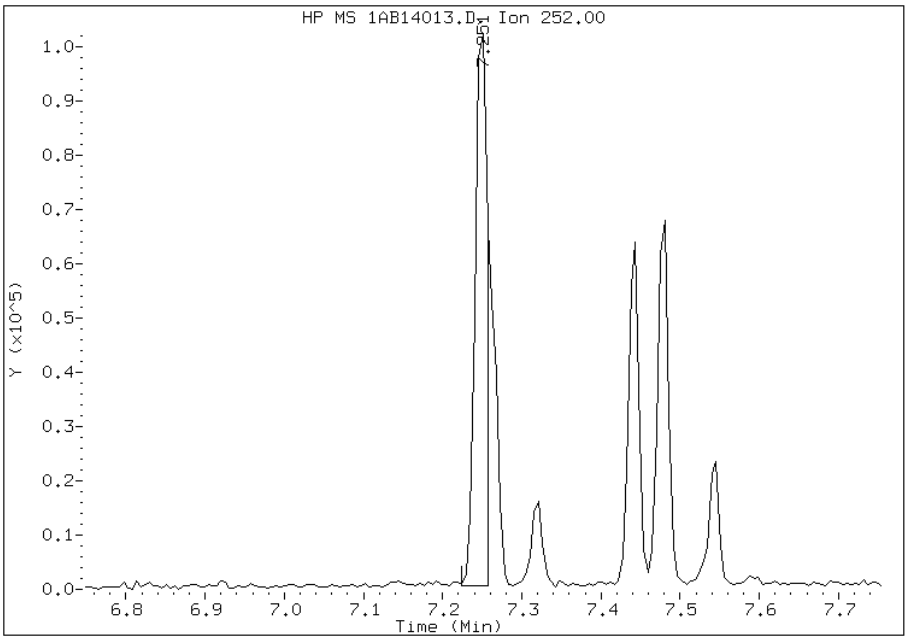
Manual Integration Results

RT: 7.25

Response: 105829

Amount: 6

Conc: 363



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:18
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14013.D
Inj. Date and Time: 14-FEB-2013 12:53
Instrument ID: BSMA5973.i
Client ID: CV0748M-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

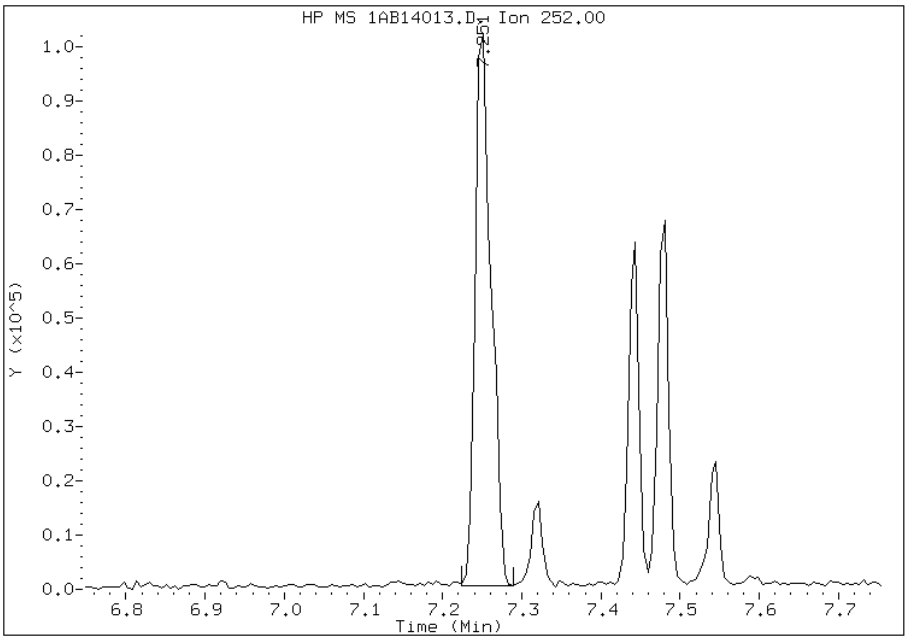
Processing Integration Results

RT: 7.25

Response: 140716

Amount: 7

Conc: 461



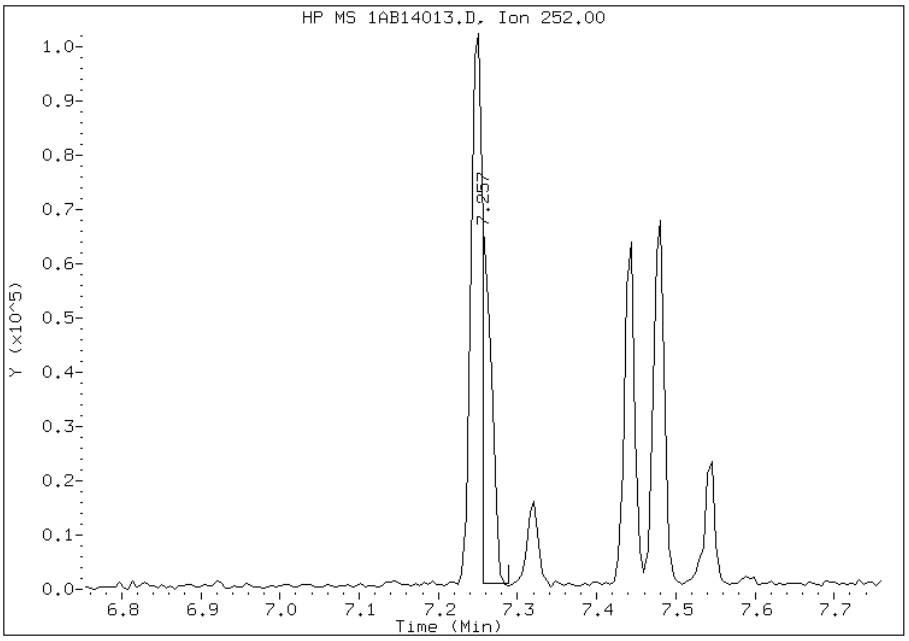
Manual Integration Results

RT: 7.26

Response: 55327

Amount: 3

Conc: 181



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14013.D
Inj. Date and Time: 14-FEB-2013 12:53
Instrument ID: BSMA5973.i
Client ID: CV0748M-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

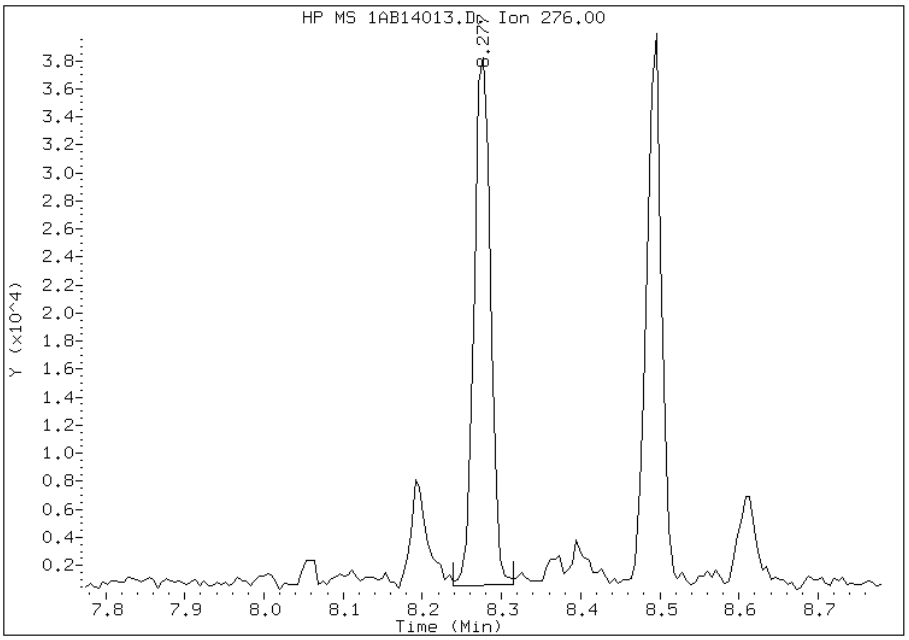
Processing Integration Results

RT: 8.28

Response: 53923

Amount: 4

Conc: 247



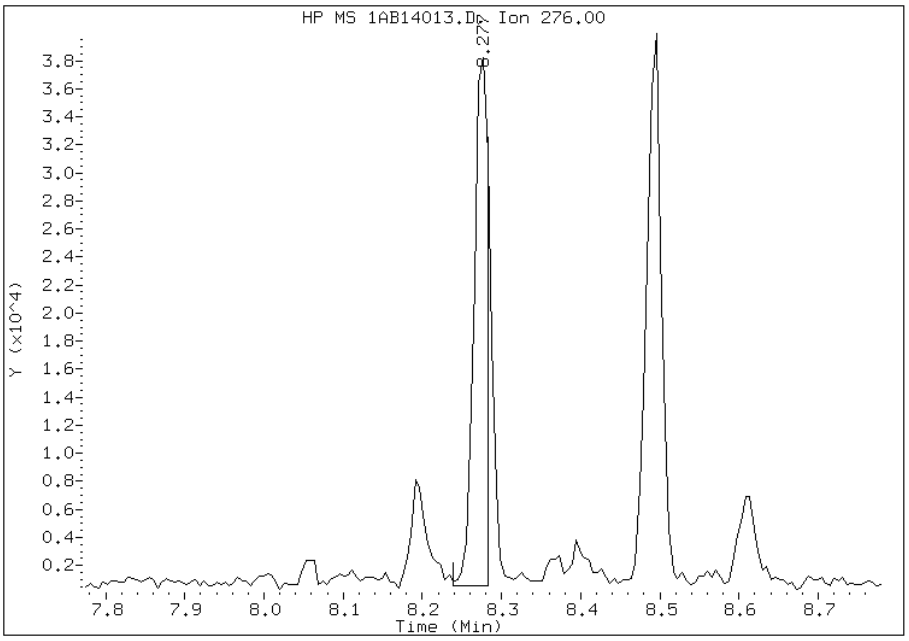
Manual Integration Results

RT: 8.28

Response: 45016

Amount: 3

Conc: 206



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748N-CS | Lab Sample ID: 680-87218-26

Matrix: Solid | Lab File ID: 1AB14014.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:33

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.29(g) | Date Analyzed: 02/14/2013 13:08

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

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

% Moisture: 11.7 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	12	J	44	5.6
120-12-7	Anthracene	29		9.3	4.7
56-55-3	Benzo[a]anthracene	130		8.9	4.3
50-32-8	Benzo[a]pyrene	88		12	5.8
205-99-2	Benzo[b]fluoranthene	130		14	6.8
191-24-2	Benzo[g,h,i]perylene	100		22	4.9
207-08-9	Benzo[k]fluoranthene	49		8.9	4.0
218-01-9	Chrysene	120		10	5.0
53-70-3	Dibenz(a,h)anthracene	36		22	4.6
206-44-0	Fluoranthene	160		22	4.4
86-73-7	Fluorene	9.6	J	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	88		22	7.9
90-12-0	1-Methylnaphthalene	32	J	44	4.9
91-57-6	2-Methylnaphthalene	38	J	44	7.9
91-20-3	Naphthalene	31	J	44	4.9
85-01-8	Phenanthrene	98		8.9	4.3
129-00-0	Pyrene	150		22	4.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14014.D
Lab Smp Id: 680-87218-A-26-A Client Smp ID: CV0748N-CS
Inj Date : 14-FEB-2013 13:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-26-a
Misc Info : 680-87218-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.290	Weight Extracted
M	11.713	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.432	2.430	(1.000)	858190	40.0000	
* 6 Acenaphthene-d10	164	3.458	3.461	(1.000)	518840	40.0000	
* 10 Phenanthrene-d10	188	4.404	4.402	(1.000)	701099	40.0000	
$ 14 o-Terphenyl	230	4.681	4.685	(1.063)	76612	7.52031	557.0999
* 18 Chrysene-d12	240	6.428	6.426	(1.000)	430139	40.0000	
* 23 Perylene-d12	264	7.529	7.527	(1.000)	556254	40.0000	
2 Naphthalene	128	2.443	2.441	(1.004)	8635	0.41454	30.7089
3 2-Methylnaphthalene	141	2.844	2.847	(1.169)	5797	0.51948	38.4828
4 1-Methylnaphthalene	142	2.902	2.900	(1.193)	5439	0.43057	31.8961
5 Acenaphthylene	152	3.373	3.371	(0.975)	3839	0.16757	12.4136
9 Fluorene	166	3.789	3.787	(1.096)	2026	0.12994	9.6261(Q)
11 Phenanthrene	178	4.420	4.418	(1.004)	25320	1.32268	97.9830
12 Anthracene	178	4.452	4.455	(1.011)	7650	0.39196	29.0359
13 Carbazole	167	4.607	4.610	(1.046)	3185	0.19038	14.1028

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.285	5.283	(1.200)	41032	2.16196	160.1563
16 Pyrene	202	5.451	5.454	(0.848)	32292	2.07873	153.9912
17 Benzo(a)anthracene	228	6.418	6.416	(0.998)	22146	1.72431	127.7360
19 Chrysene	228	6.444	6.448	(1.002)	19929	1.59194	117.9296
20 Benzo(b)fluoranthene	252	7.246	7.244	(0.962)	26591	1.71277	126.8806(M)
21 Benzo(k)fluoranthene	252	7.256	7.265	(0.964)	10740	0.66165	49.0147(QM)
22 Benzo(a)pyrene	252	7.475	7.479	(0.993)	17547	1.19020	88.1690
24 Indeno(1,2,3-cd)pyrene	276	8.271	8.275	(1.099)	13888	1.19298	88.3750(M)
25 Dibenzo(a,h)anthracene	278	8.282	8.291	(1.100)	5678	0.48788	36.1419
26 Benzo(g,h,i)perylene	276	8.485	8.494	(1.127)	16474	1.36595	101.1883

QC Flag Legend

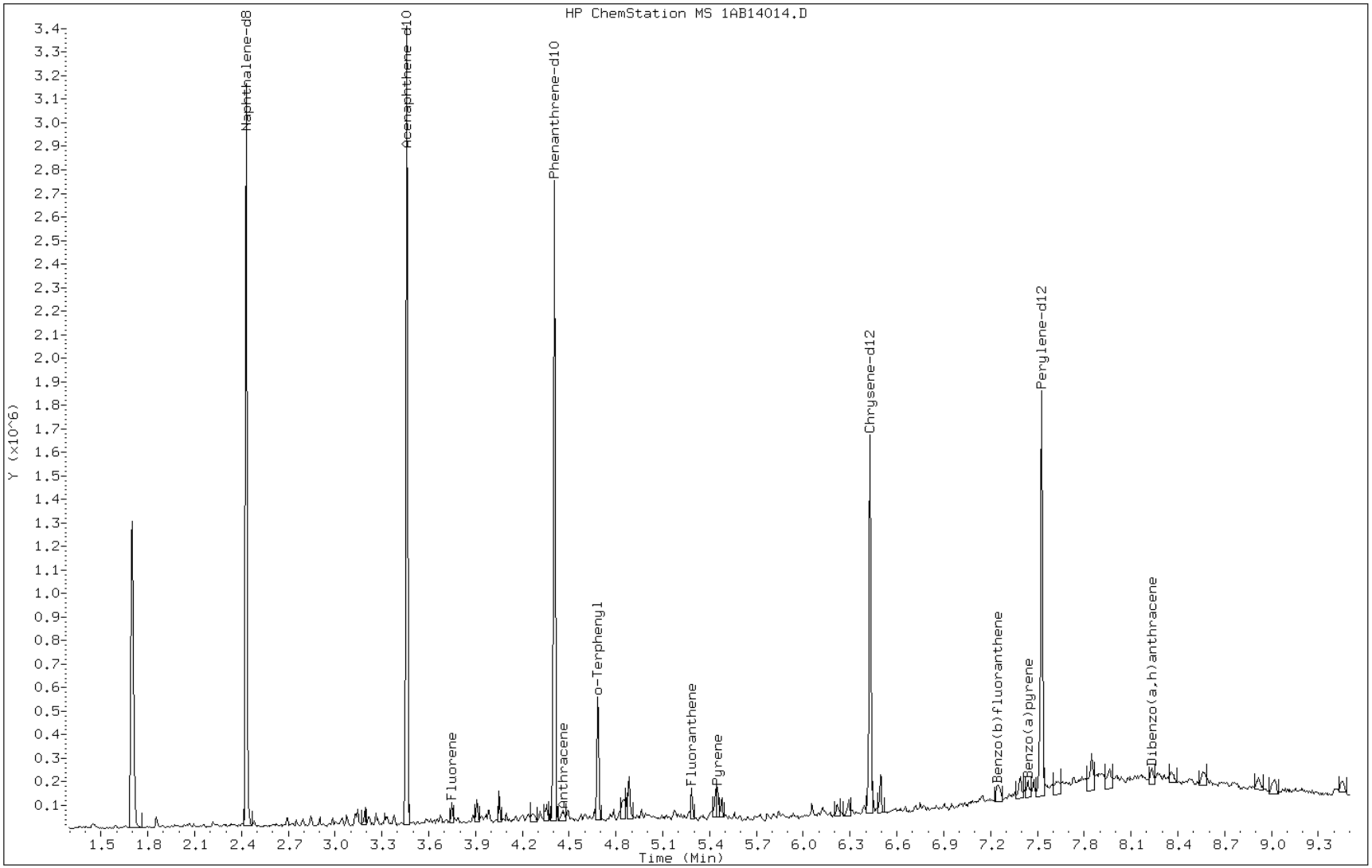
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a | Operator: SCC



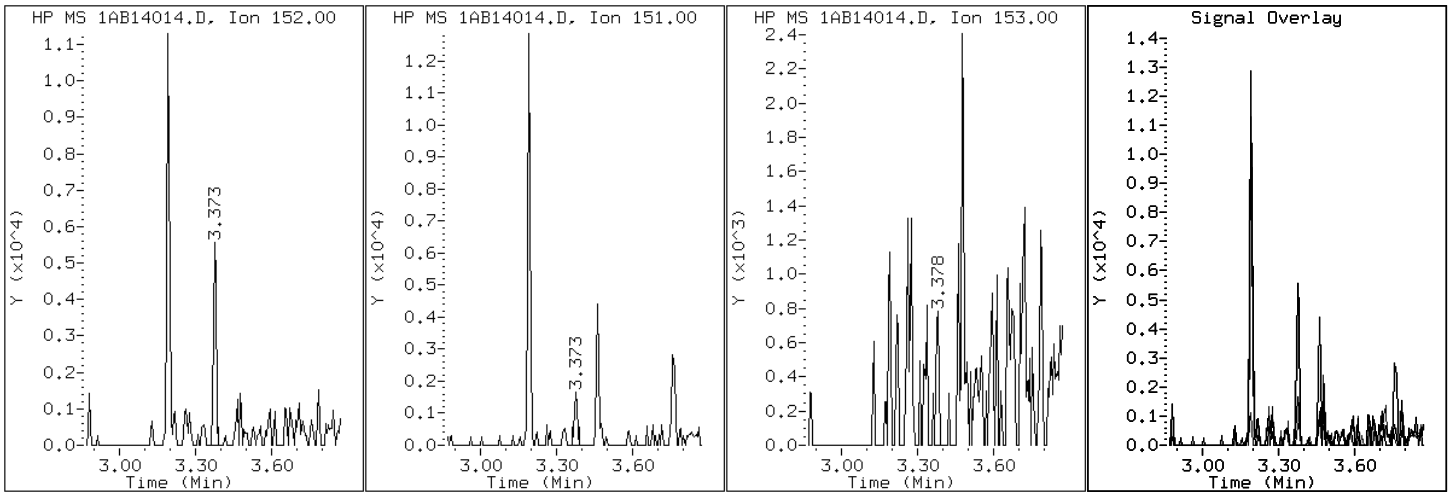
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

5 Acenaphthylene



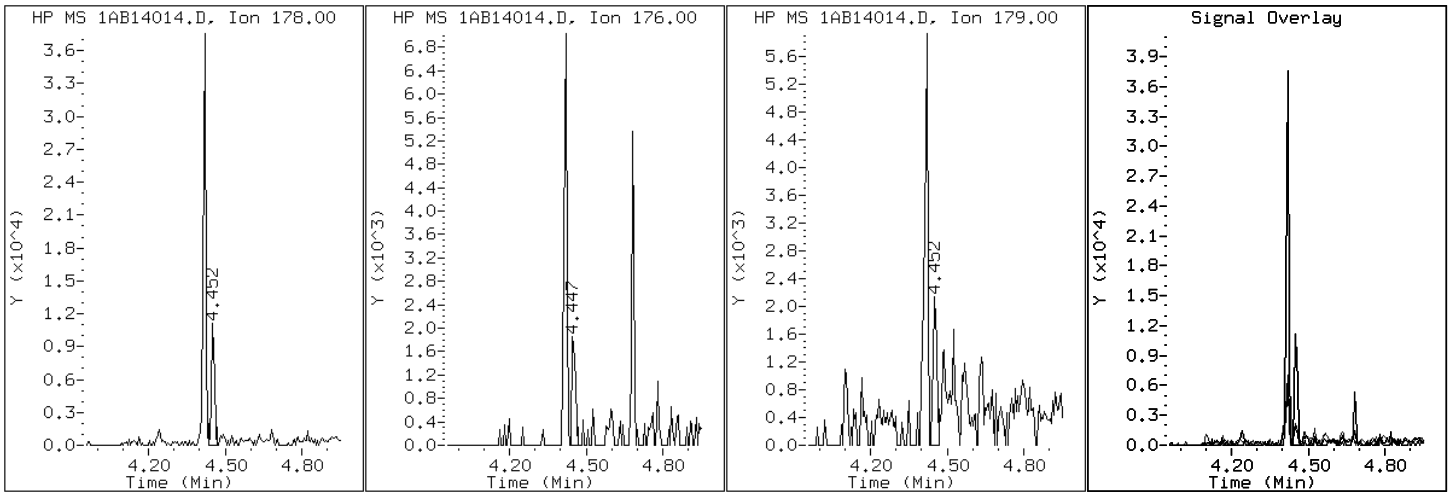
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

12 Anthracene



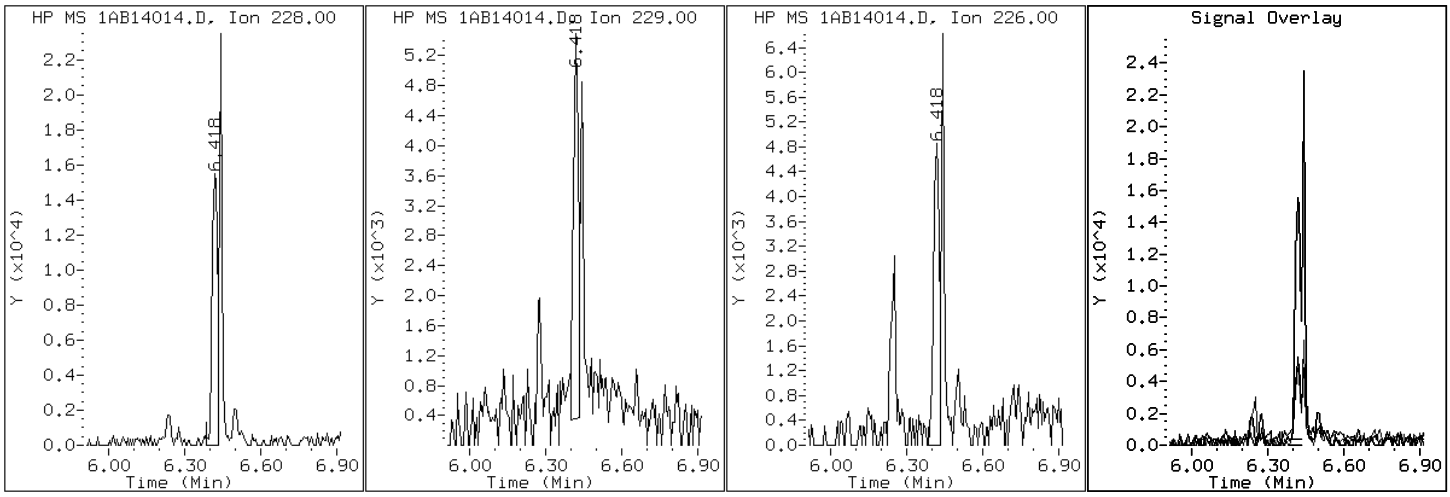
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

17 Benzo(a)anthracene



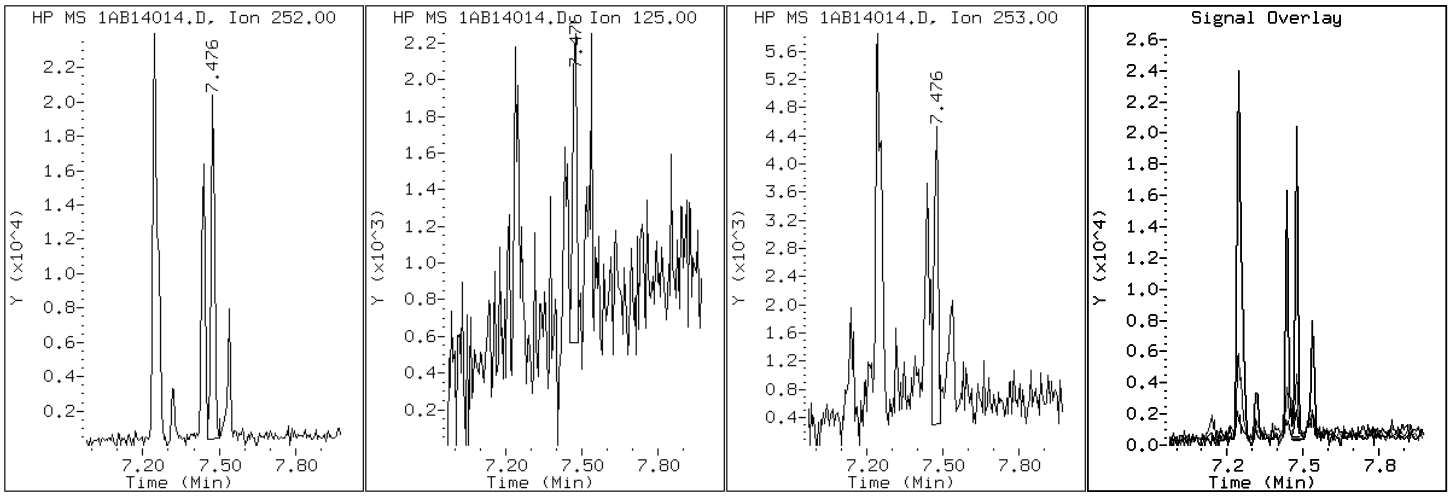
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

22 Benzo(a)pyrene



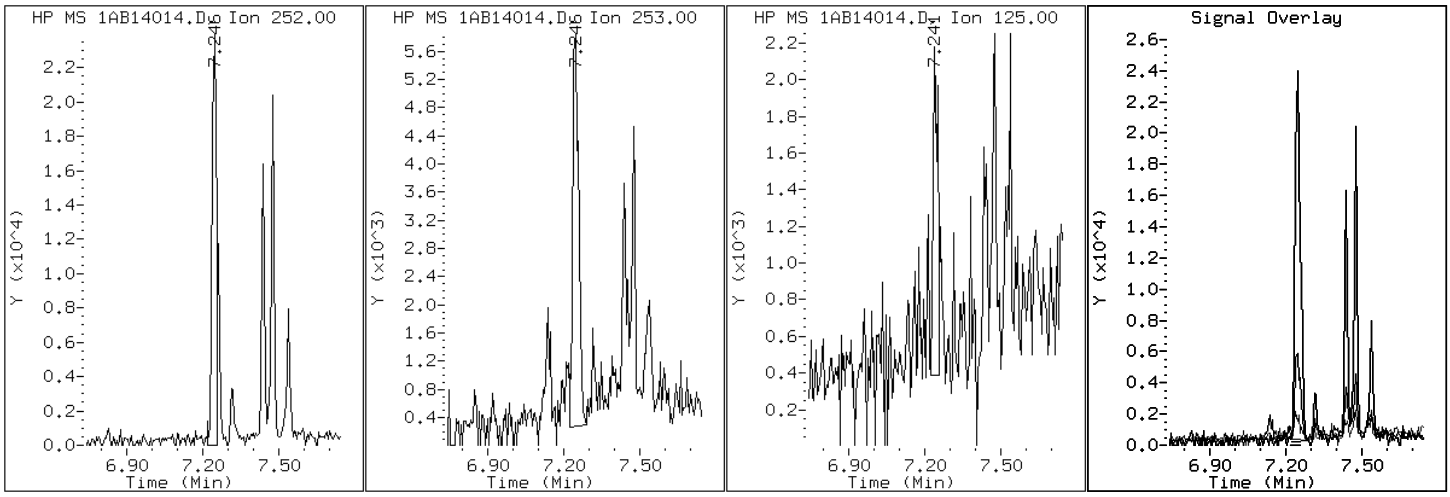
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

20 Benzo(b)fluoranthene



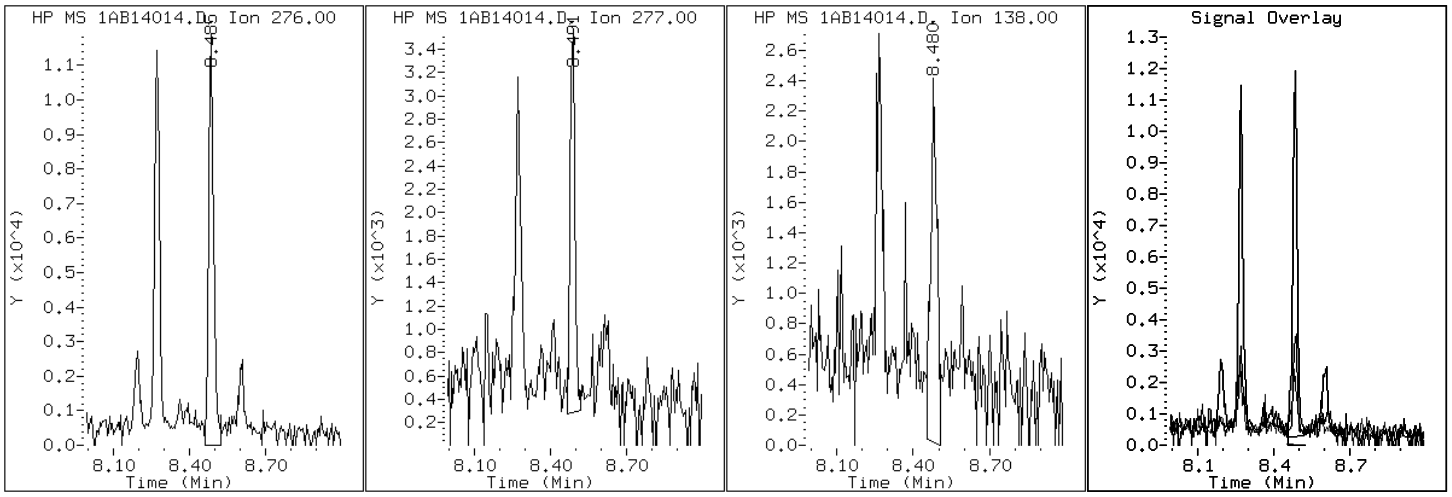
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

26 Benzo(g,h,i)perylene



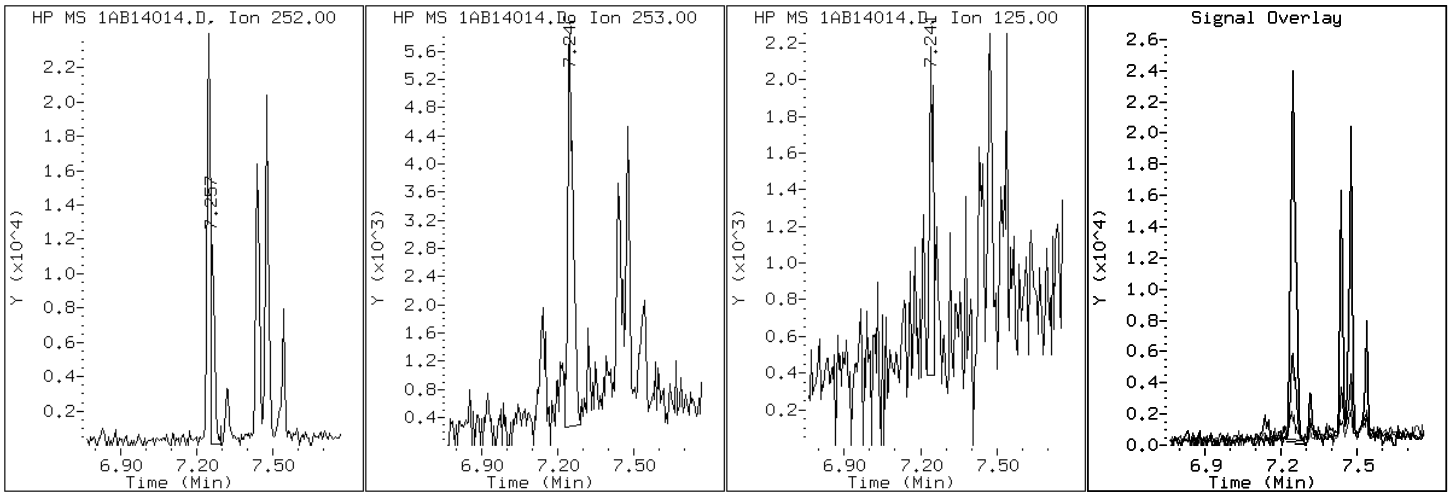
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

21 Benzo(k)fluoranthene



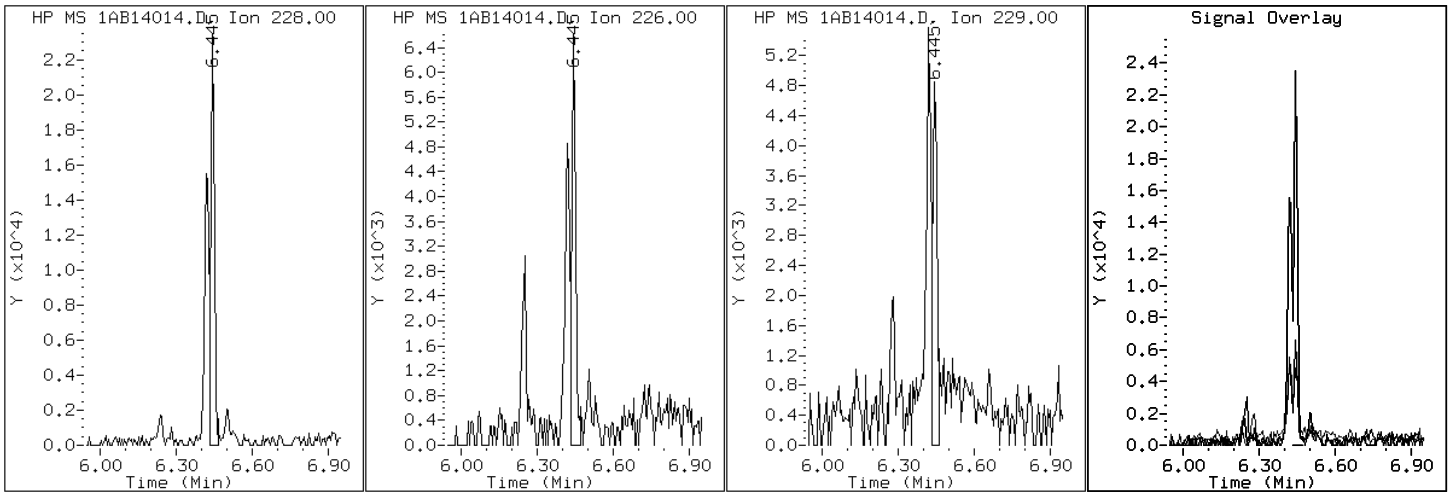
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

19 Chrysene



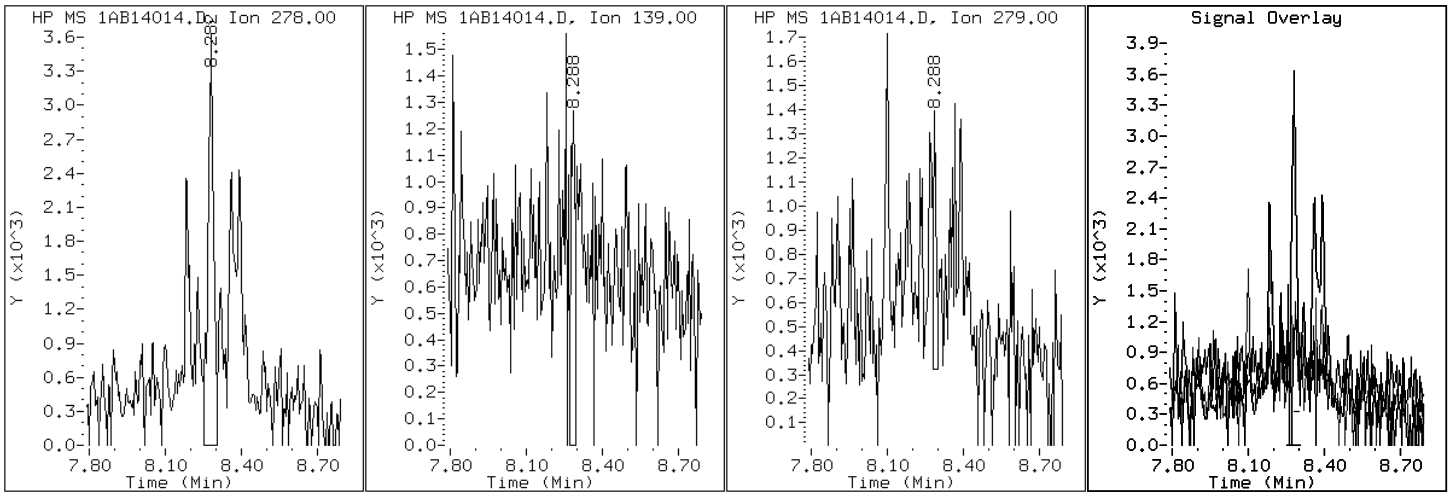
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

25 Dibenzo(a,h)anthracene



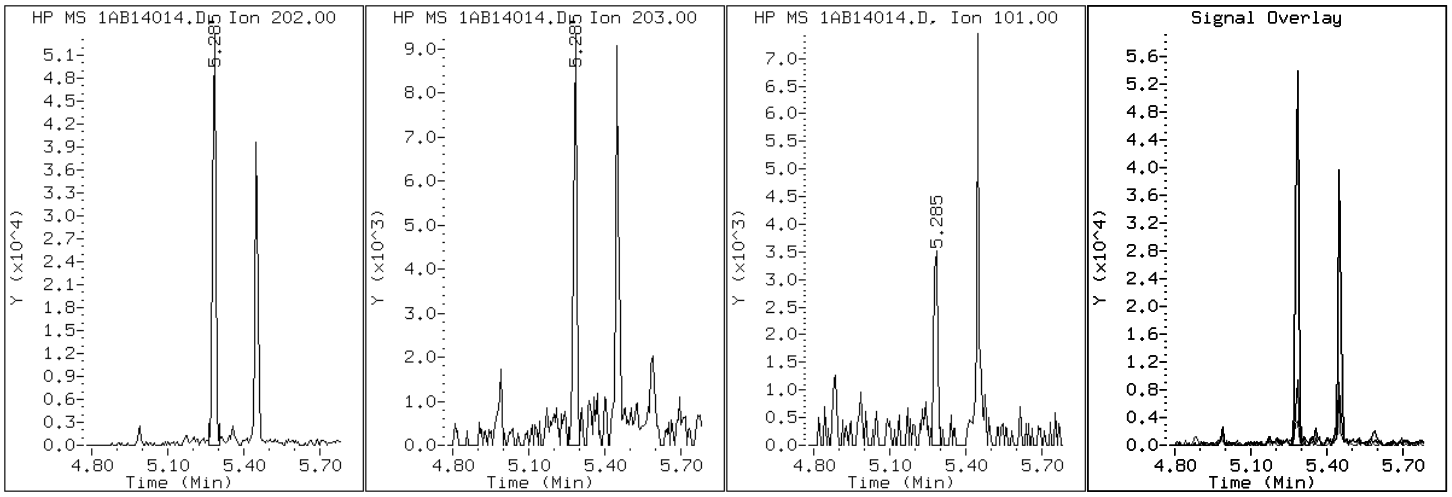
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

15 Fluoranthene



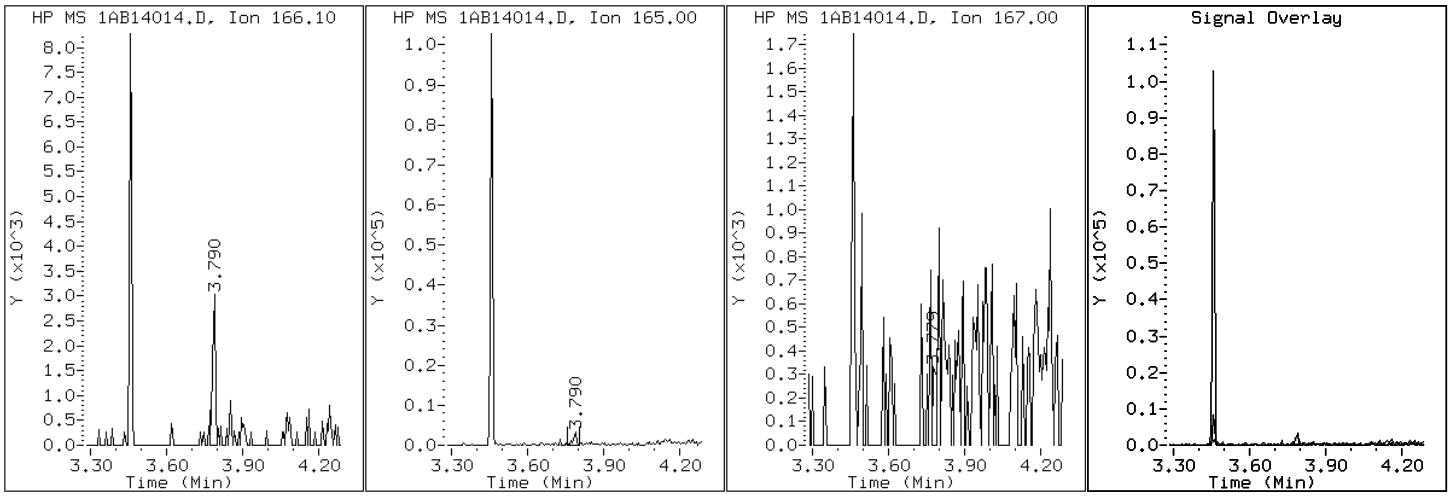
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

9 Fluorene



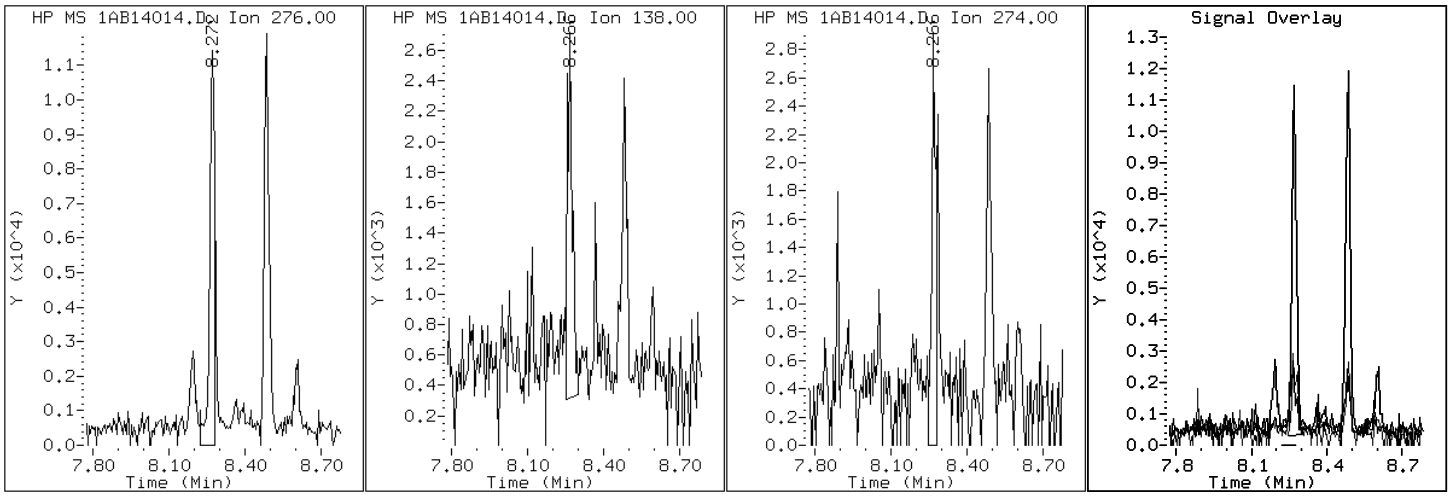
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

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



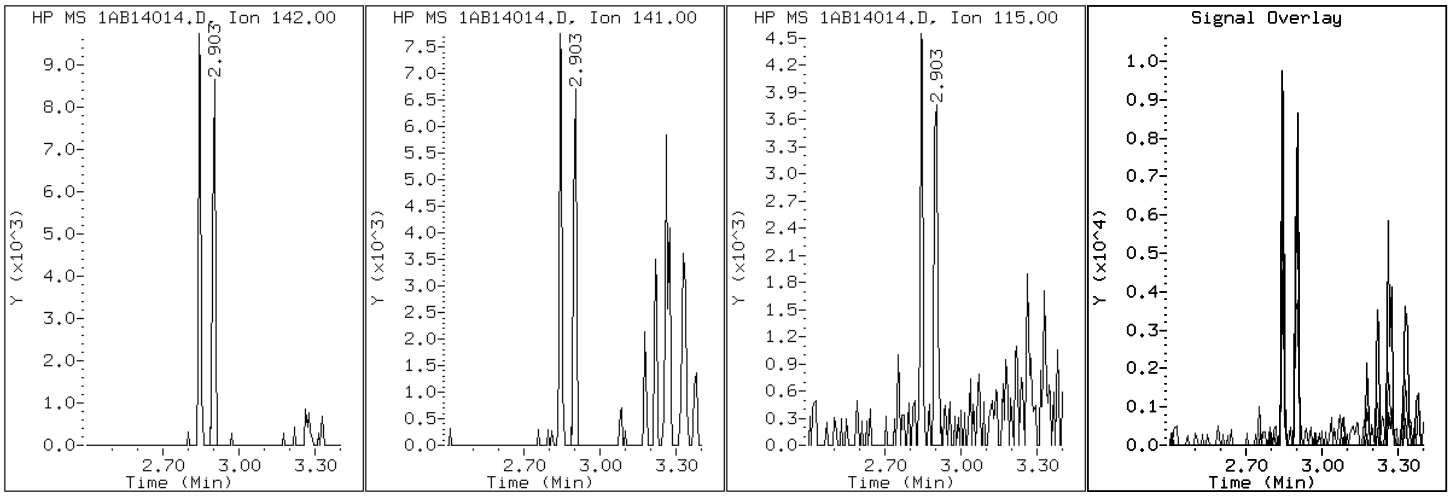
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

4 1-Methylnaphthalene



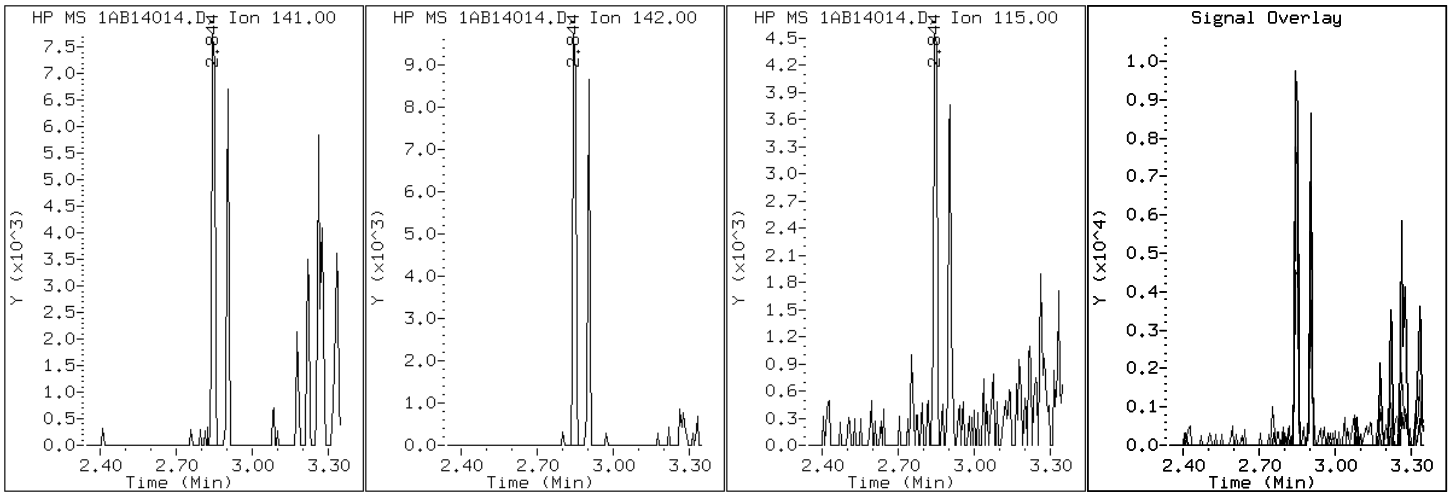
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

3 2-Methylnaphthalene



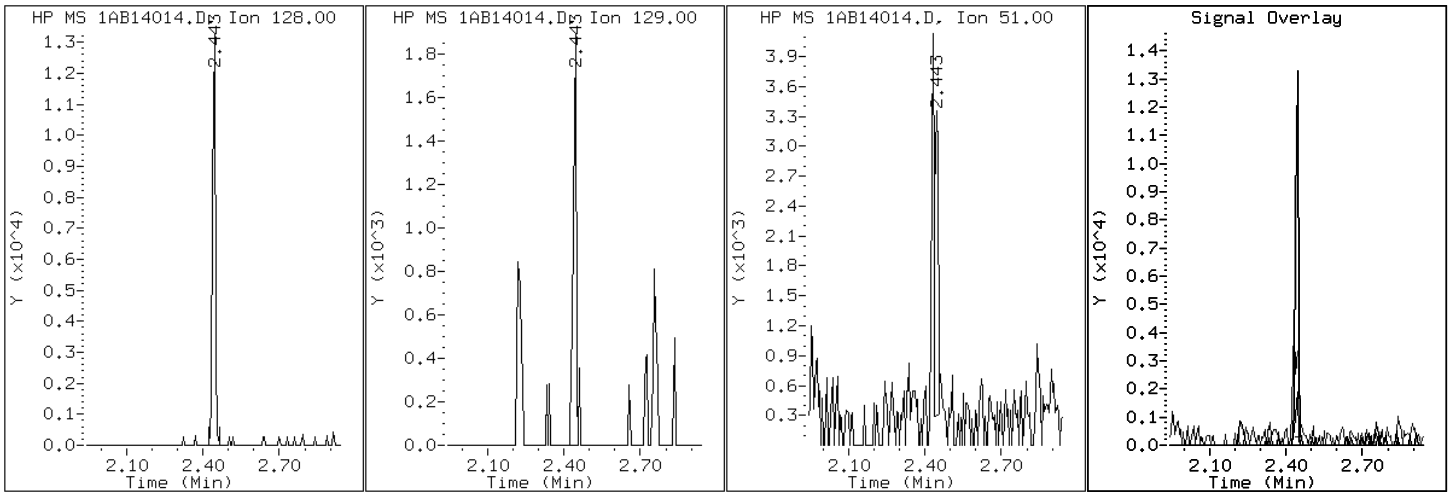
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

2 Naphthalene



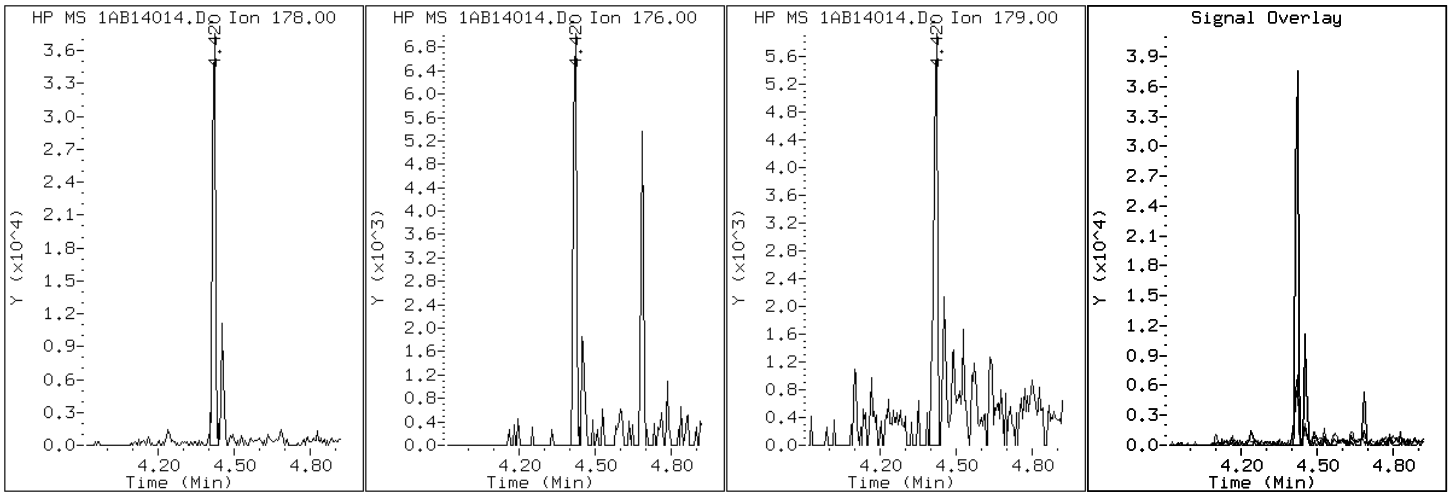
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

11 Phenanthrene



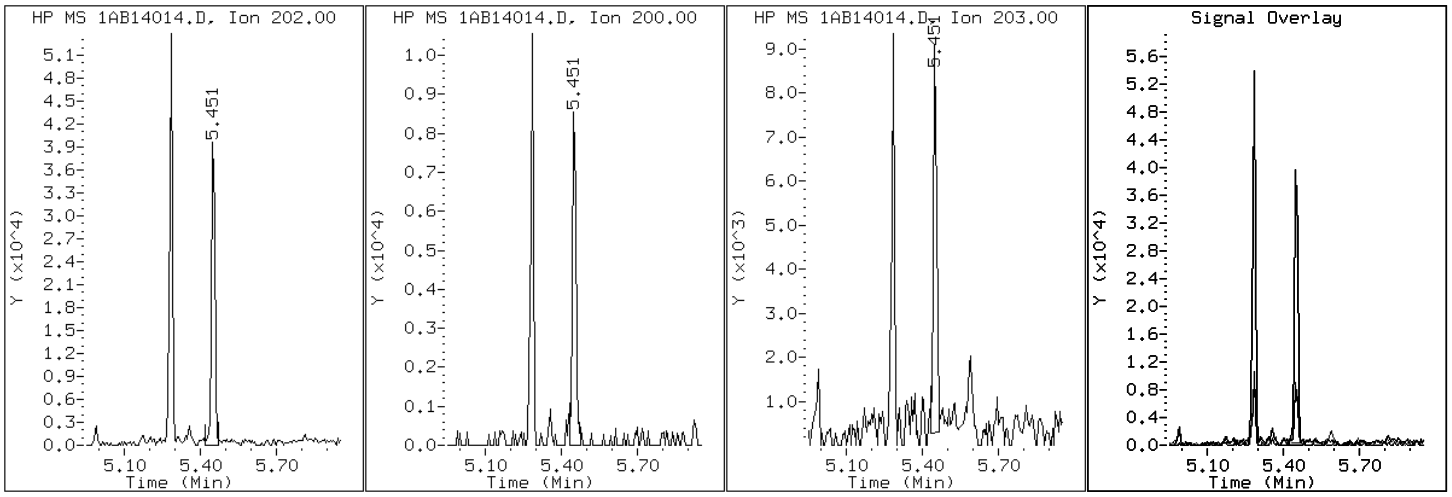
Data File: 1AB14014.D

Date: 14-FEB-2013 13:08

Client ID: CV0748N-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-26-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14014.D
Inj. Date and Time: 14-FEB-2013 13:08
Instrument ID: BSMA5973.i
Client ID: CV0748N-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

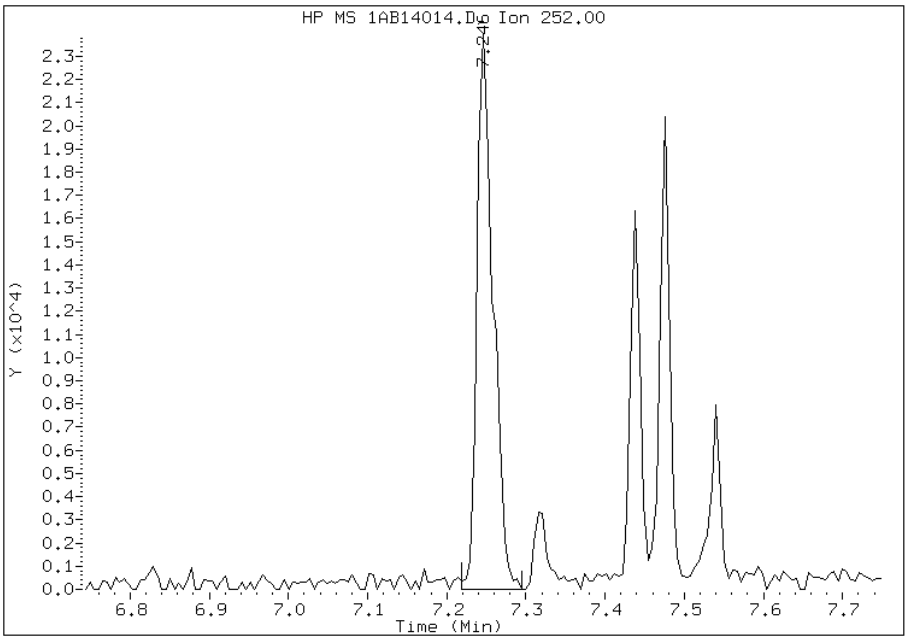
Processing Integration Results

RT: 7.25

Response: 33466

Amount: 2

Conc: 160



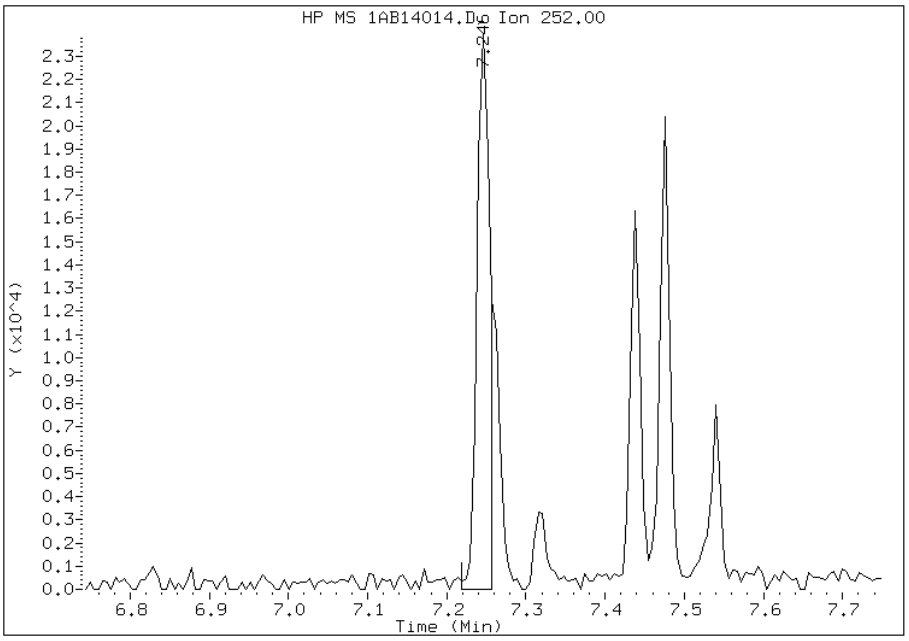
Manual Integration Results

RT: 7.25

Response: 26591

Amount: 2

Conc: 127



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14014.D
Inj. Date and Time: 14-FEB-2013 13:08
Instrument ID: BSMA5973.i
Client ID: CV0748N-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

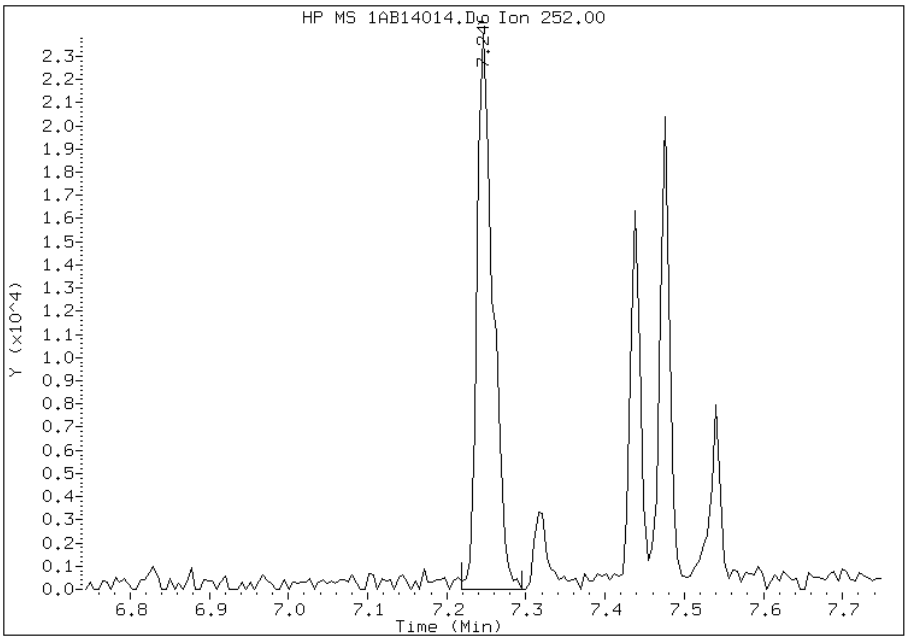
Processing Integration Results

RT: 7.25

Response: 33466

Amount: 2

Conc: 153



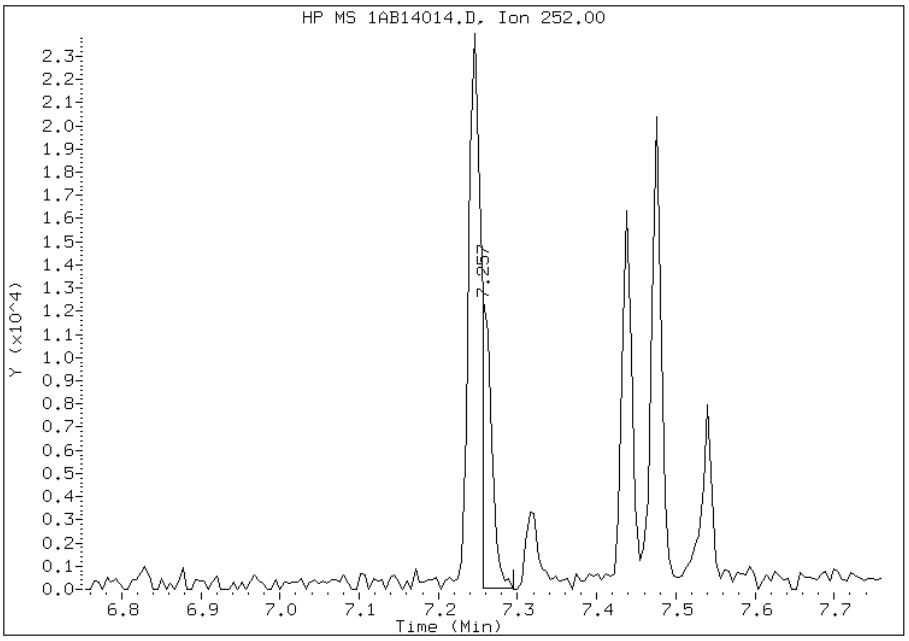
Manual Integration Results

RT: 7.26

Response: 10740

Amount: 1

Conc: 49



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14014.D
Inj. Date and Time: 14-FEB-2013 13:08
Instrument ID: BSMA5973.i
Client ID: CV0748N-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

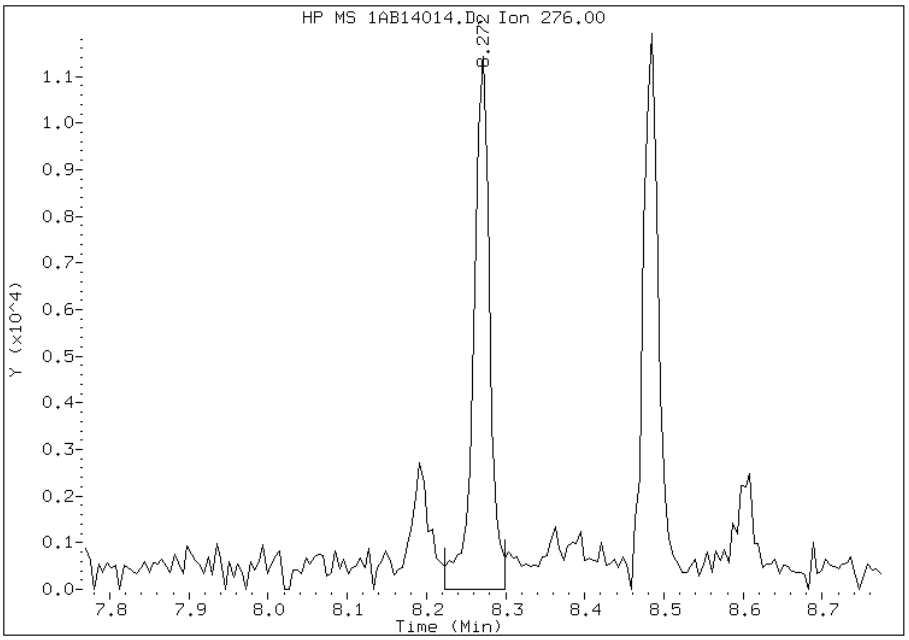
Processing Integration Results

RT: 8.27

Response: 16058

Amount: 1

Conc: 102



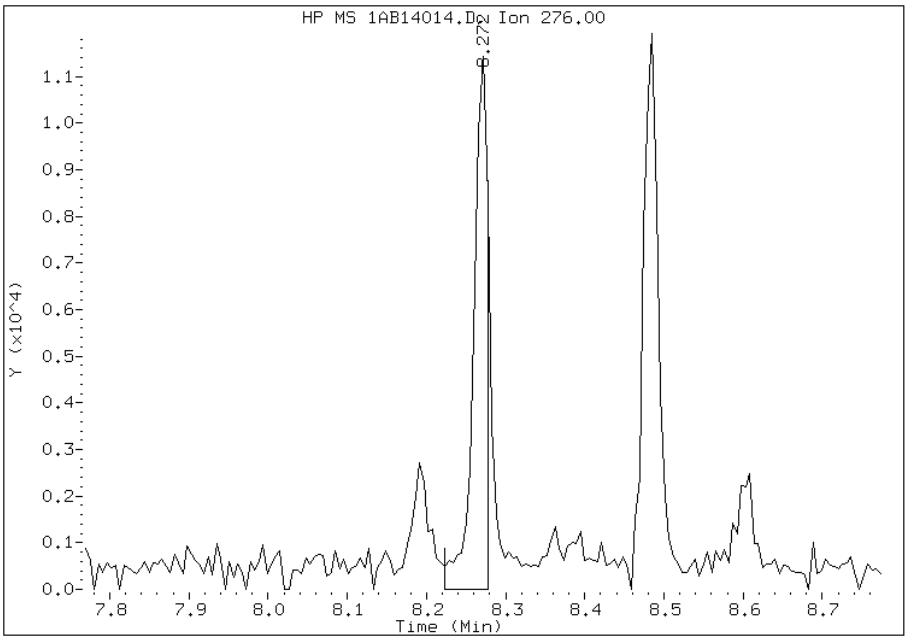
Manual Integration Results

RT: 8.27

Response: 13888

Amount: 1

Conc: 88



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748O-CS | Lab Sample ID: 680-87218-27

Matrix: Solid | Lab File ID: 1AB14015.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:37

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.30(g) | Date Analyzed: 02/14/2013 13:23

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

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

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	7.0	J	45	5.7
120-12-7	Anthracene	7.1	J	9.5	4.8
56-55-3	Benzo[a]anthracene	44		9.1	4.4
50-32-8	Benzo[a]pyrene	30		12	5.9
205-99-2	Benzo[b]fluoranthene	38		14	6.9
191-24-2	Benzo[g,h,i]perylene	37		23	5.0
207-08-9	Benzo[k]fluoranthene	15		9.1	4.1
218-01-9	Chrysene	41		10	5.1
53-70-3	Dibenz(a,h)anthracene	11	J	23	4.6
206-44-0	Fluoranthene	57		23	4.5
86-73-7	Fluorene	23	U	23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	26		23	8.0
90-12-0	1-Methylnaphthalene	12	J	45	5.0
91-57-6	2-Methylnaphthalene	12	J	45	8.0
91-20-3	Naphthalene	9.4	J	45	5.0
85-01-8	Phenanthrene	23		9.1	4.4
129-00-0	Pyrene	57		23	4.2

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\1A021413.b\1AB14015.D
Lab Smp Id: 680-87218-A-27-A Client Smp ID: CV0748O-CS
Inj Date : 14-FEB-2013 13:23
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-27-a
Misc Info : 680-87218-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.300	Weight Extracted
M	13.498	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.433	2.430	(1.000)	837235	40.0000	
* 6 Acenaphthene-d10	164	3.459	3.461	(1.000)	503303	40.0000	
* 10 Phenanthrene-d10	188	4.405	4.402	(1.000)	683539	40.0000	
$ 14 o-Terphenyl	230	4.682	4.685	(1.063)	78010	7.85426	593.4557
* 18 Chrysene-d12	240	6.429	6.426	(1.000)	481657	40.0000	
* 23 Perylene-d12	264	7.525	7.527	(1.000)	551487	40.0000	
2 Naphthalene	128	2.439	2.441	(1.002)	2540	0.12499	9.4440(Q)
3 2-Methylnaphthalene	141	2.845	2.847	(1.169)	1728	0.15873	11.9930
4 1-Methylnaphthalene	142	2.898	2.900	(1.191)	1928	0.15645	11.8208
5 Acenaphthylene	152	3.374	3.371	(0.975)	2068	0.09306	7.0310
11 Phenanthrene	178	4.415	4.418	(1.002)	5758	0.30852	23.3109
12 Anthracene	178	4.453	4.455	(1.011)	1783	0.09370	7.0799
15 Fluoranthene	202	5.286	5.283	(1.200)	14041	0.75882	57.3351
16 Pyrene	202	5.452	5.454	(0.848)	13053	0.75039	56.6980

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.424	6.416	(0.999)	8293	0.57664	43.5699
19 Chrysene	228	6.440	6.448	(1.002)	7583	0.54094	40.8728
20 Benzo(b)fluoranthene	252	7.247	7.244	(0.963)	7792	0.50623	38.2501(M)
21 Benzo(k)fluoranthene	252	7.252	7.265	(0.964)	3284	0.20406	15.4187(QM)
22 Benzo(a)pyrene	252	7.471	7.479	(0.993)	5726	0.39175	29.5997
24 Indeno(1,2,3-cd)pyrene	276	8.262	8.275	(1.098)	3944	0.34172	25.8196(M)
25 Dibenzo(a,h)anthracene	278	8.272	8.291	(1.099)	1648	0.14283	10.7918(M)
26 Benzo(g,h,i)perylene	276	8.475	8.494	(1.126)	5877	0.49150	37.1373

QC Flag Legend

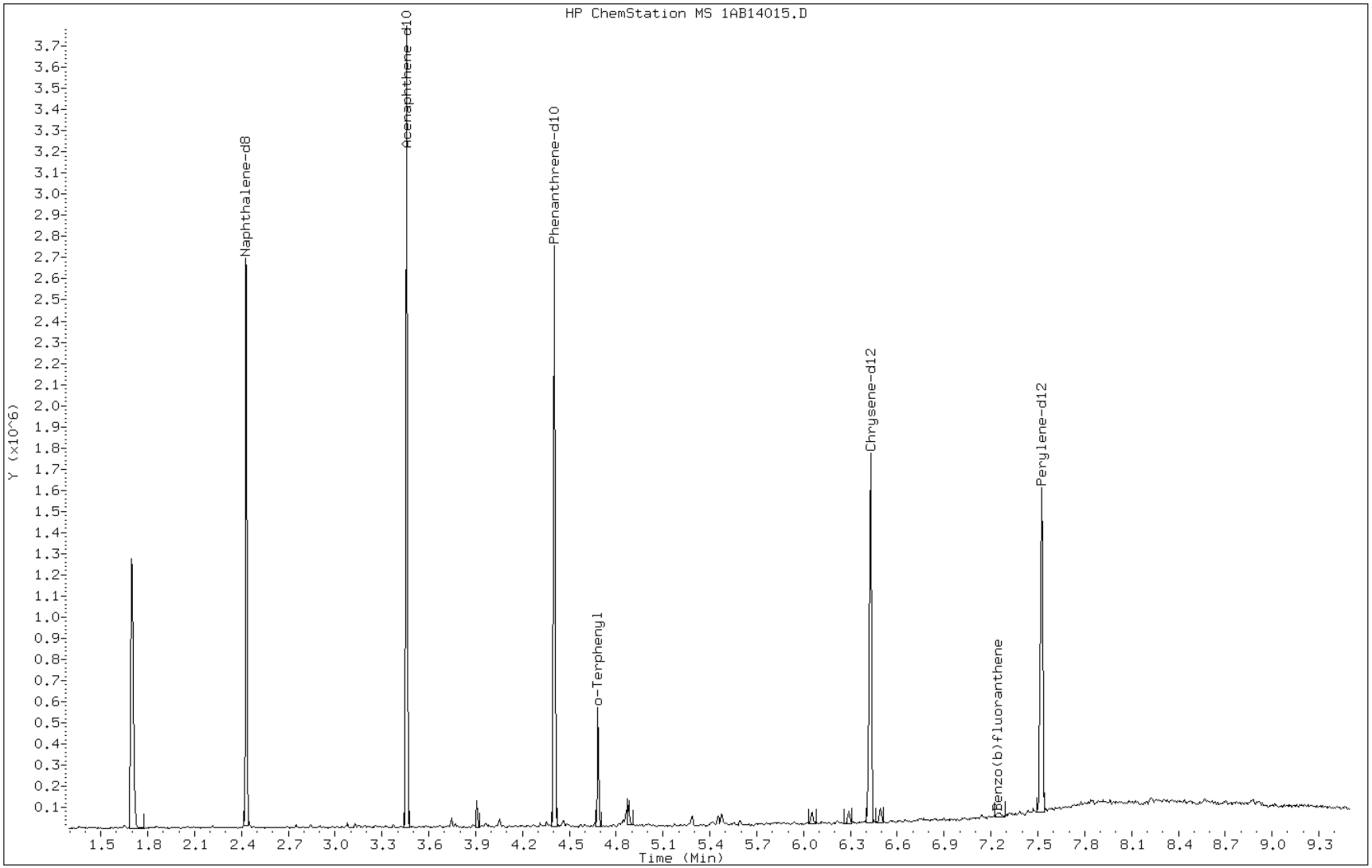
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

Client ID: CV0748O-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a | Operator: SCC



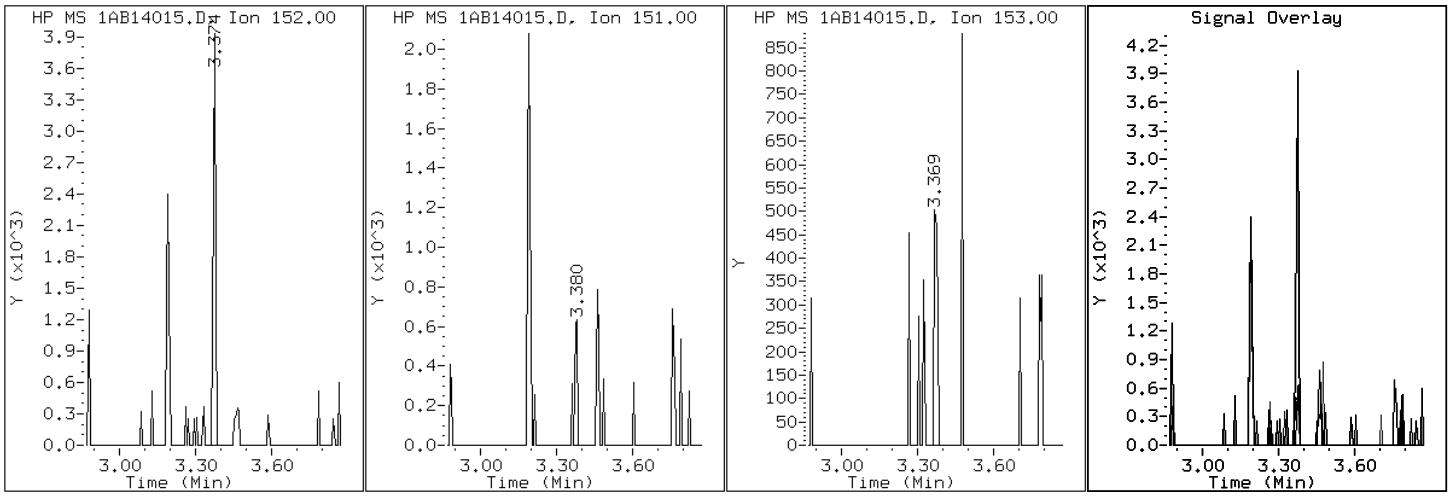
Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

Client ID: CV0748O-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a Operator: SCC

5 Acenaphthylene



Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

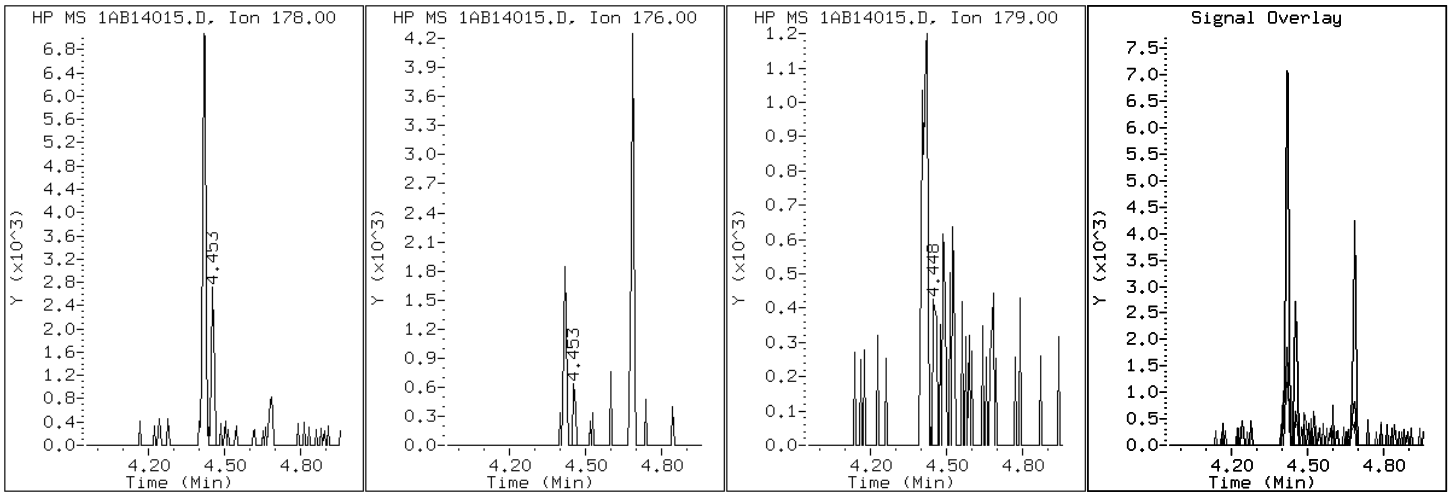
Client ID: CV0748O-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a

Operator: SCC

12 Anthracene



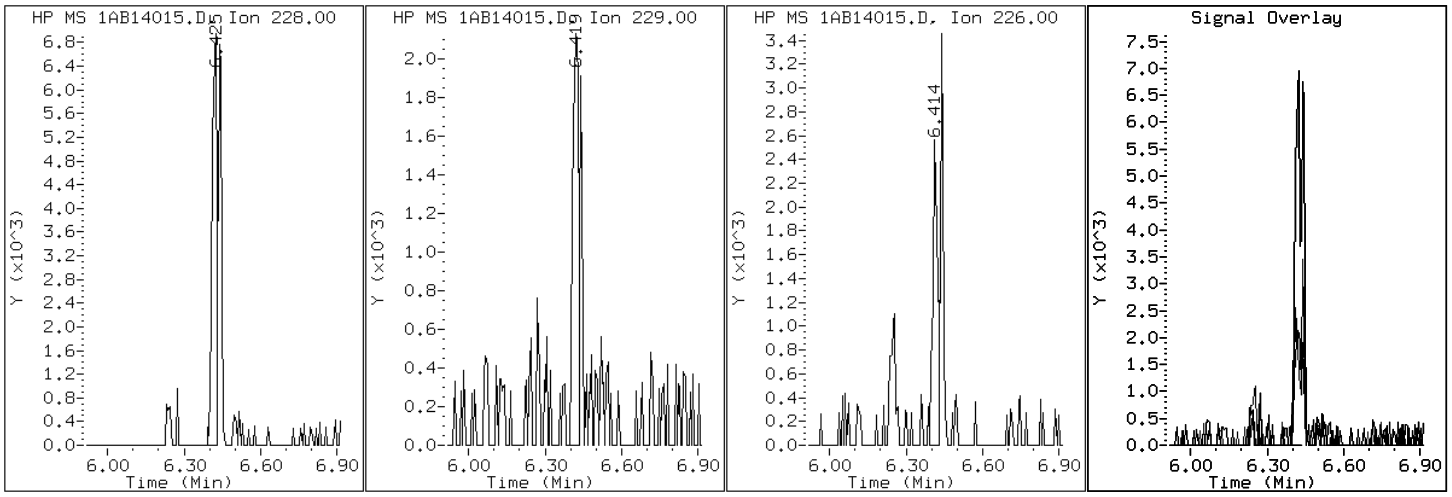
Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

Client ID: CV0748O-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a Operator: SCC

17 Benzo(a)anthracene



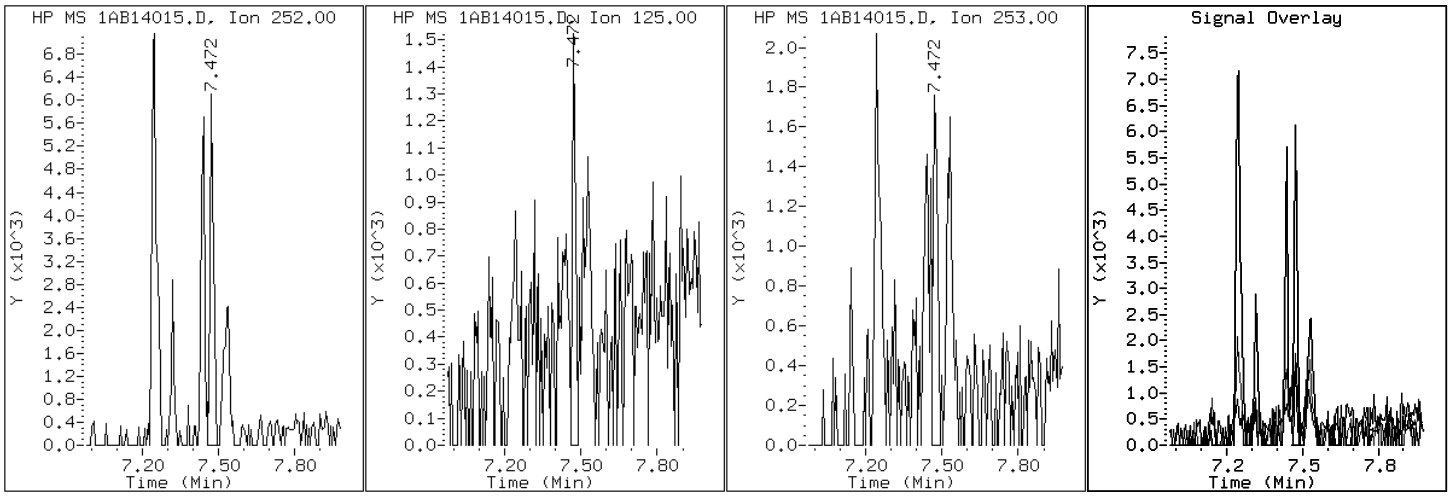
Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

Client ID: CV0748O-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a Operator: SCC

22 Benzo(a)pyrene



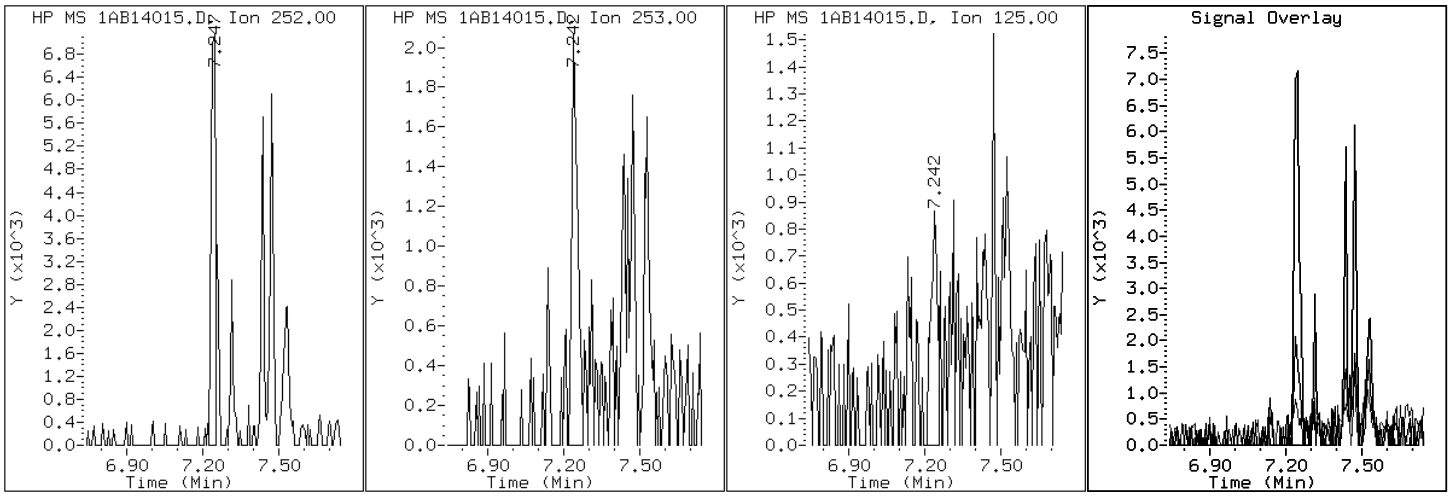
Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

Client ID: CV0748O-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

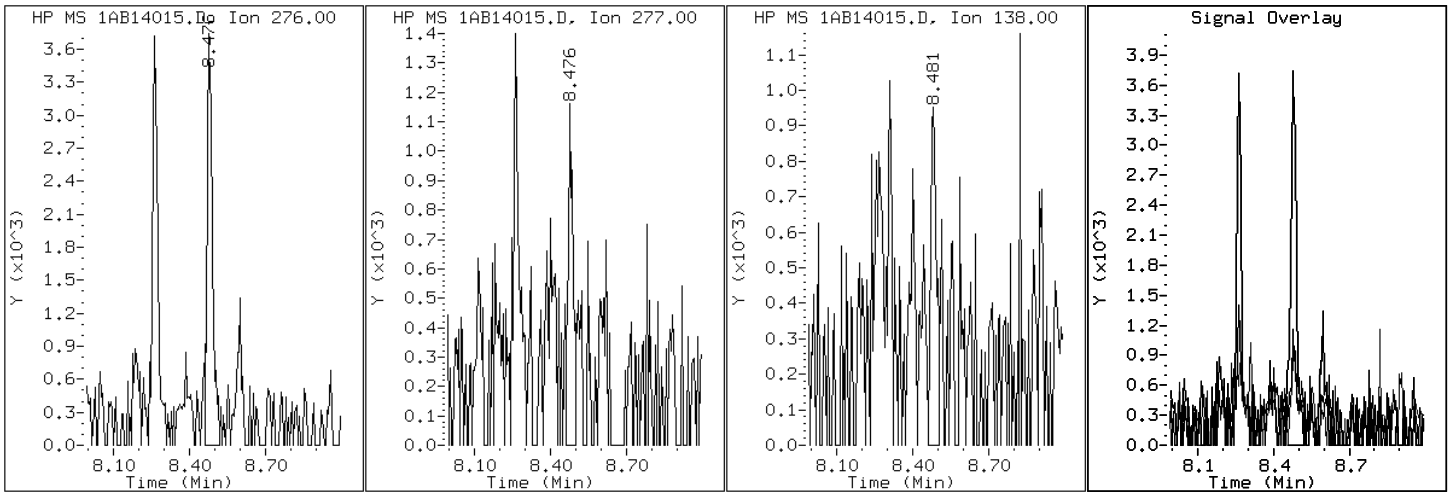
Client ID: CV0748O-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a

Operator: SCC

26 Benzo(g,h,i)perylene



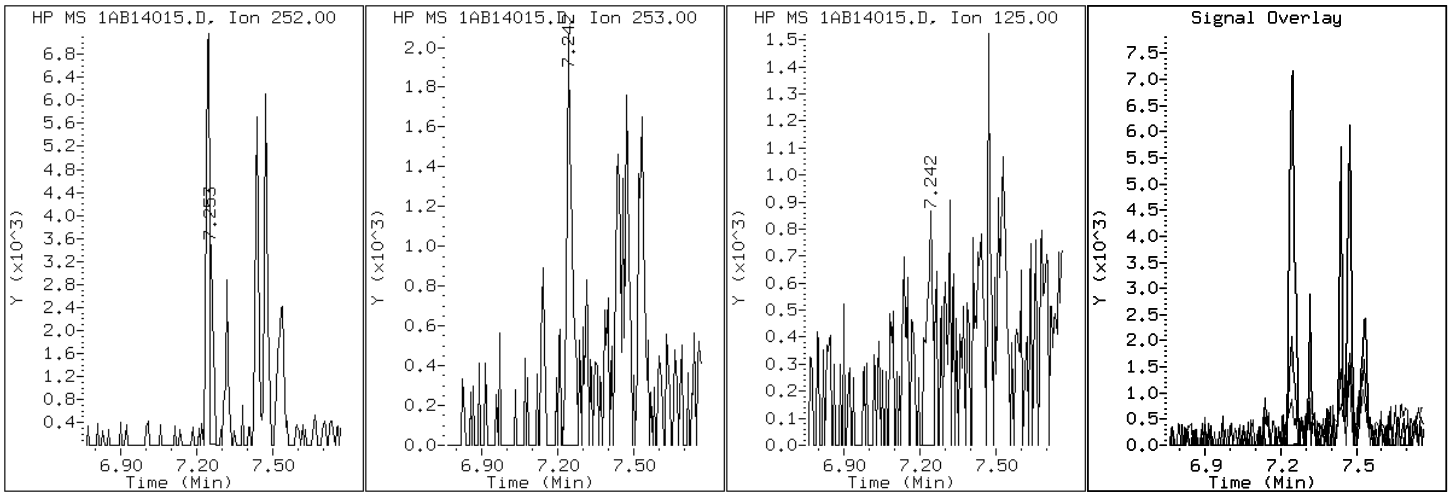
Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

Client ID: CV0748O-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a Operator: SCC

21 Benzo(k)fluoranthene



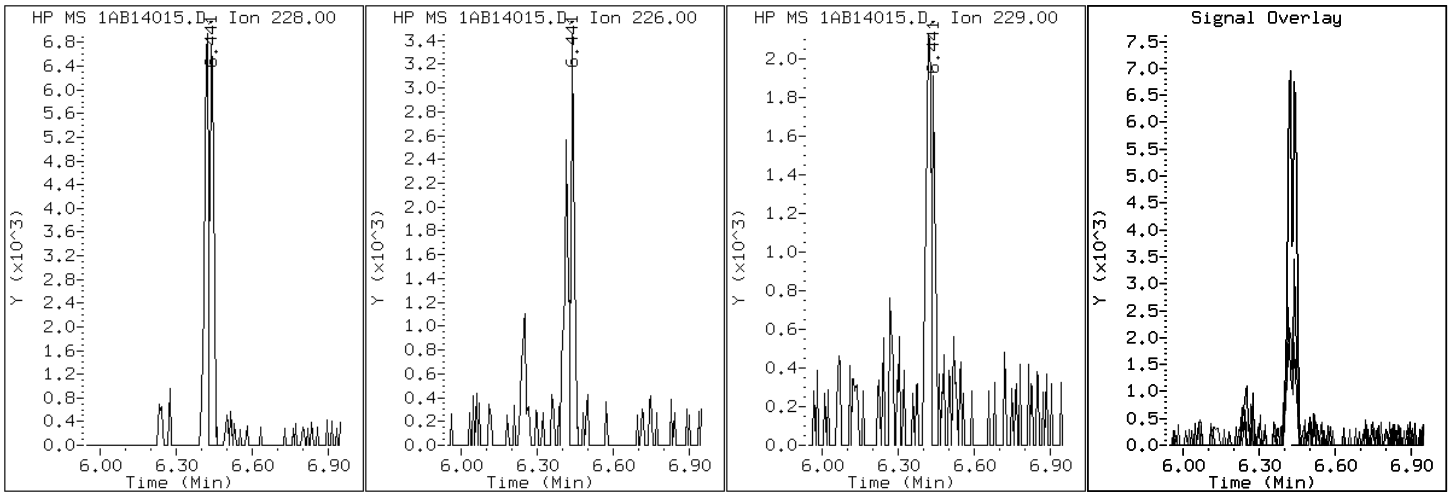
Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

Client ID: CV0748O-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a Operator: SCC

19 Chrysene



Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

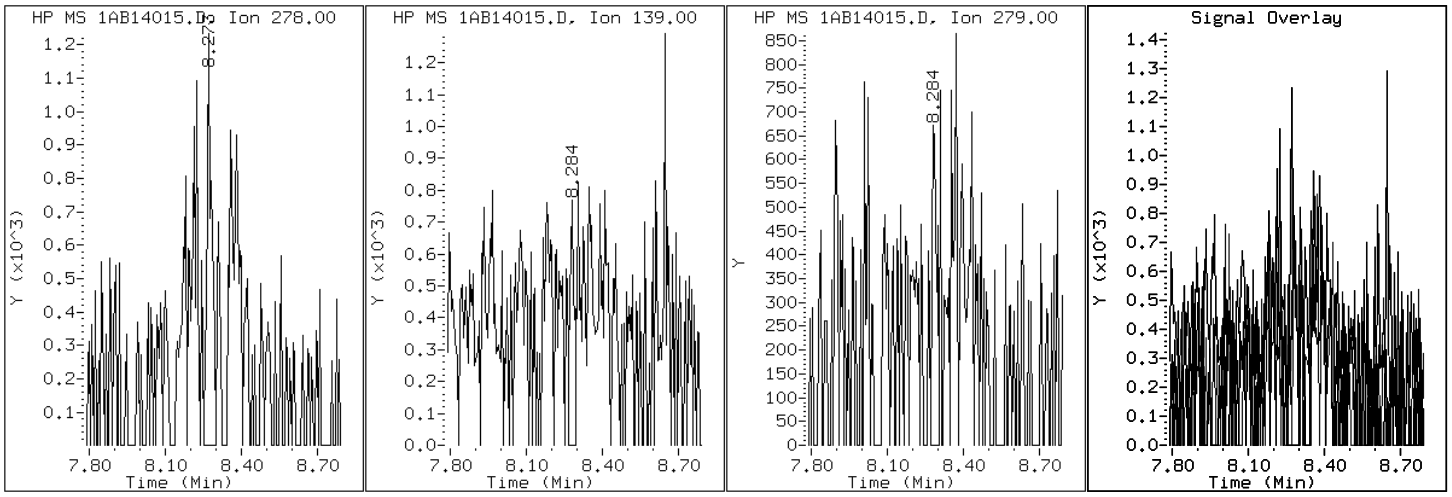
Client ID: CV0748O-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

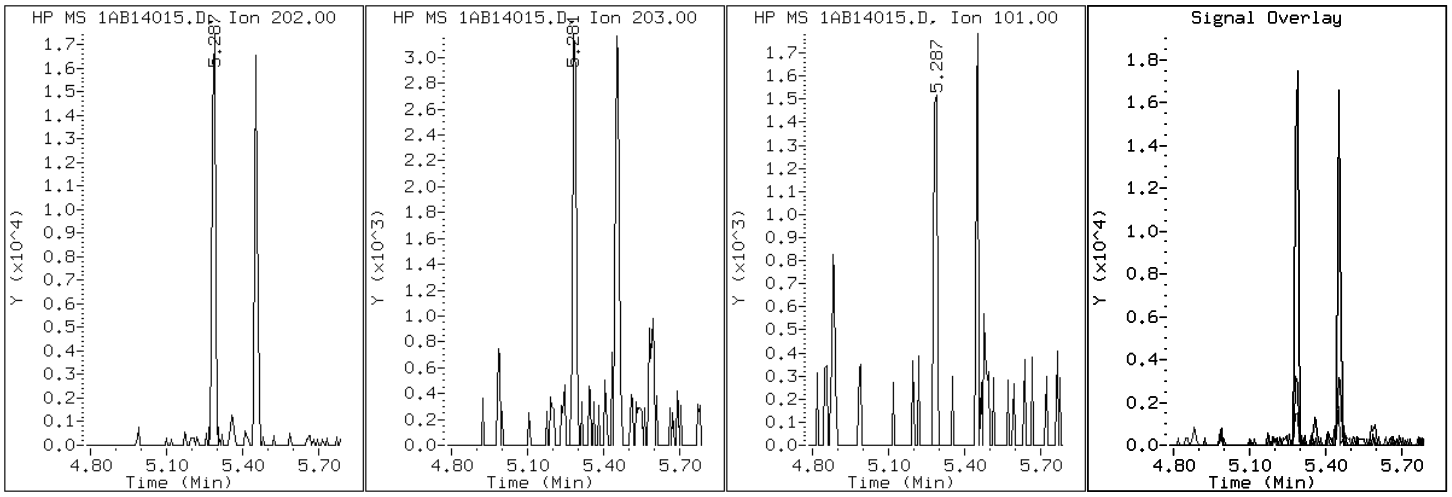
Client ID: CV0748O-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a

Operator: SCC

15 Fluoranthene



Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

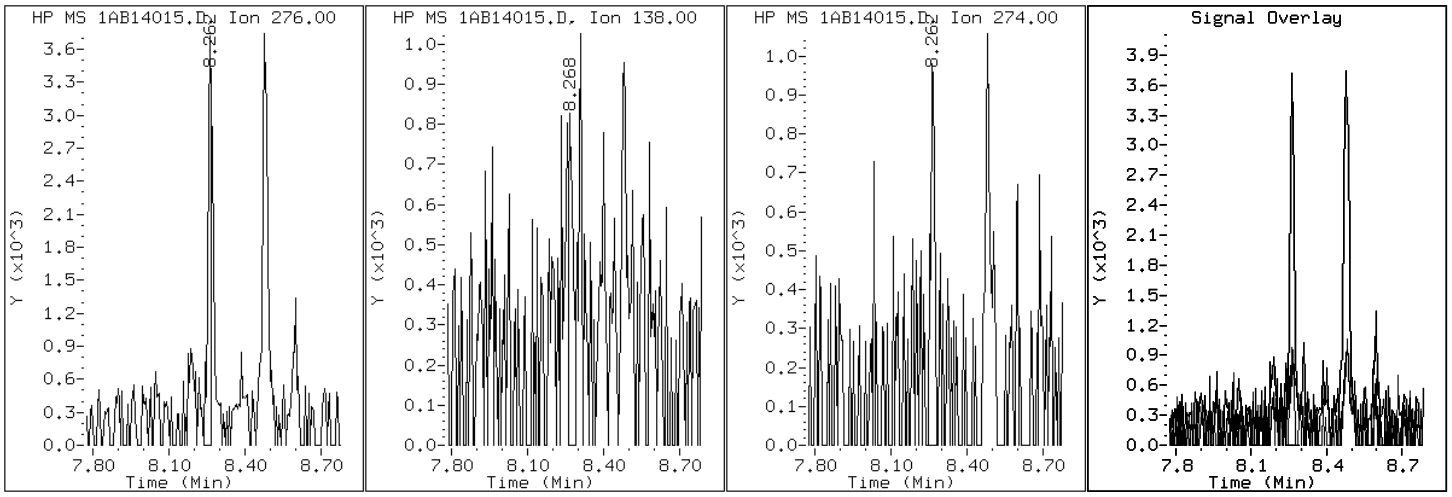
Client ID: CV0748O-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a

Operator: SCC

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



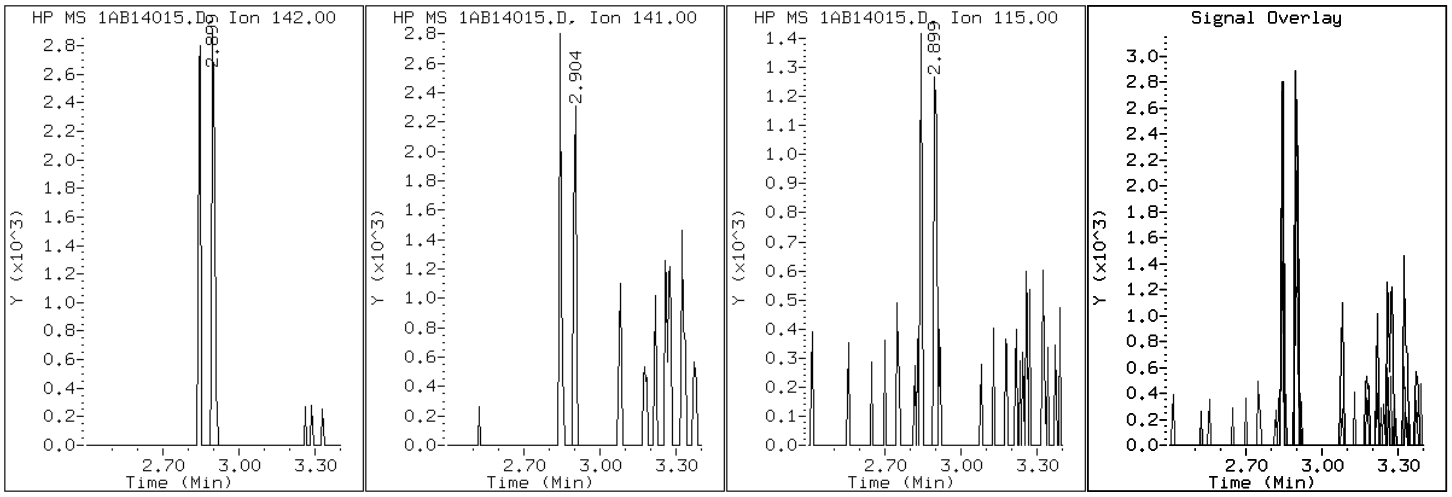
Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

Client ID: CV0748O-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a Operator: SCC

4 1-Methylnaphthalene



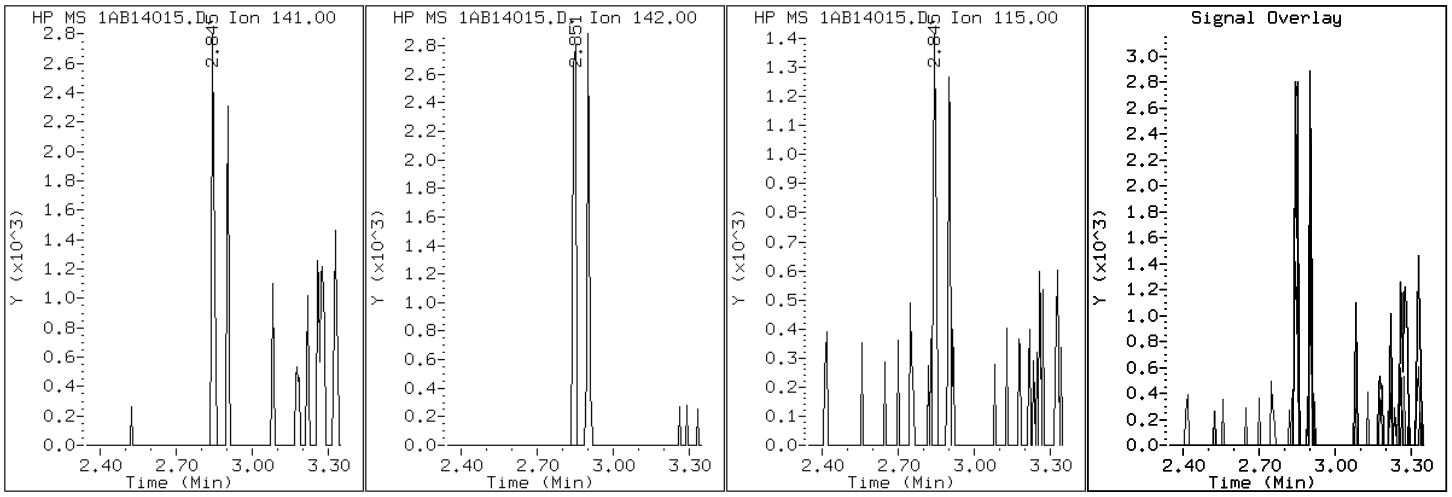
Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

Client ID: CV0748O-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

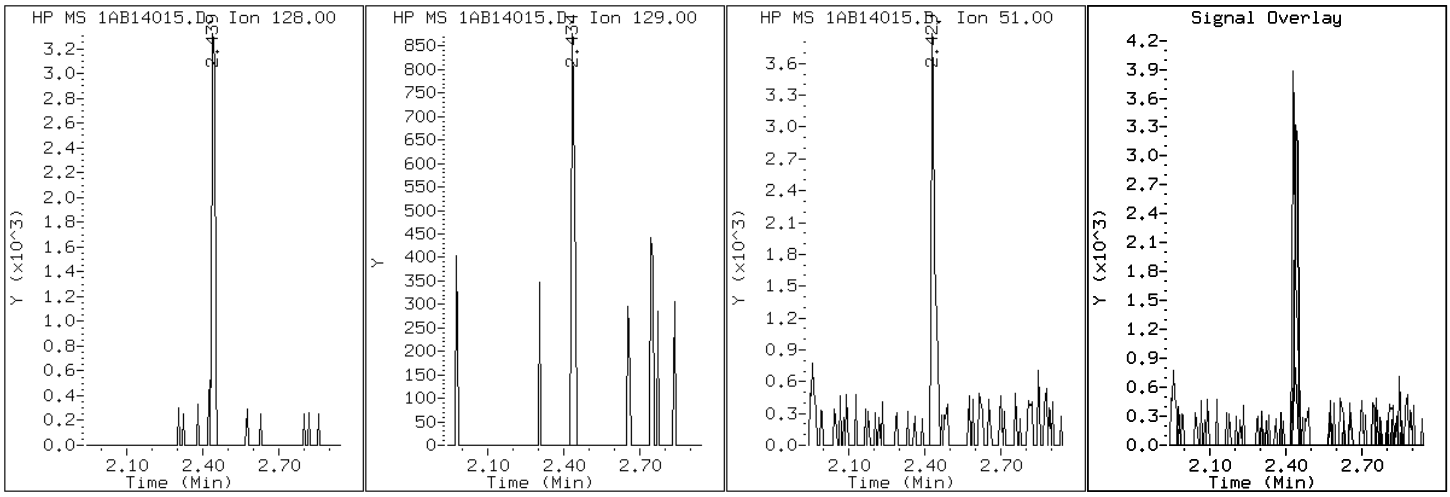
Client ID: CV0748O-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a

Operator: SCC

2 Naphthalene



Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

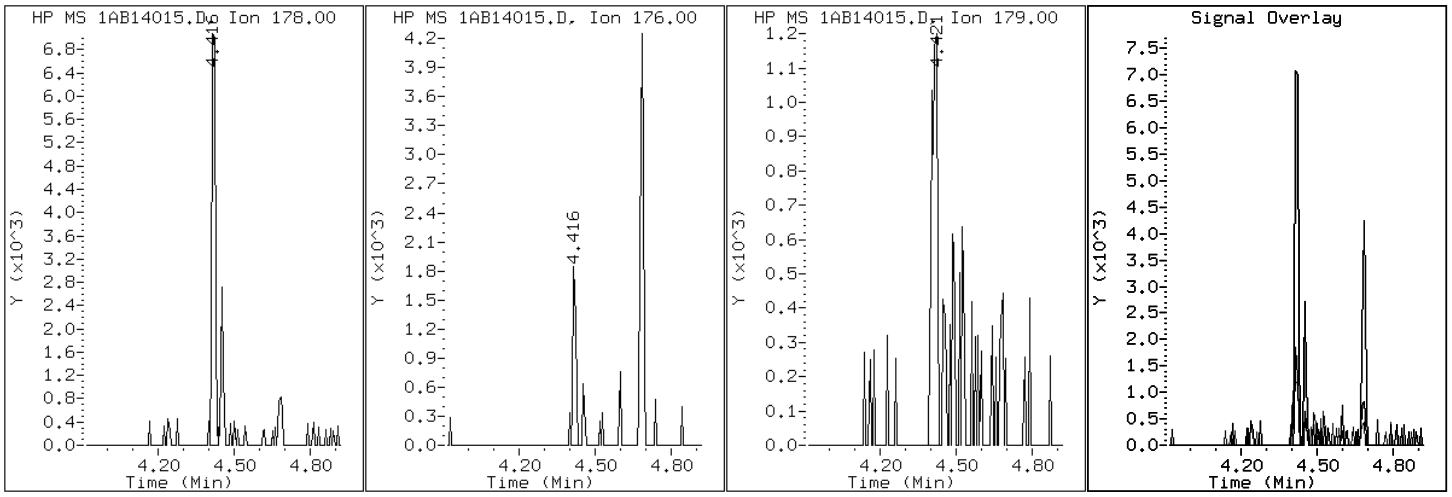
Client ID: CV0748O-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a

Operator: SCC

11 Phenanthrene



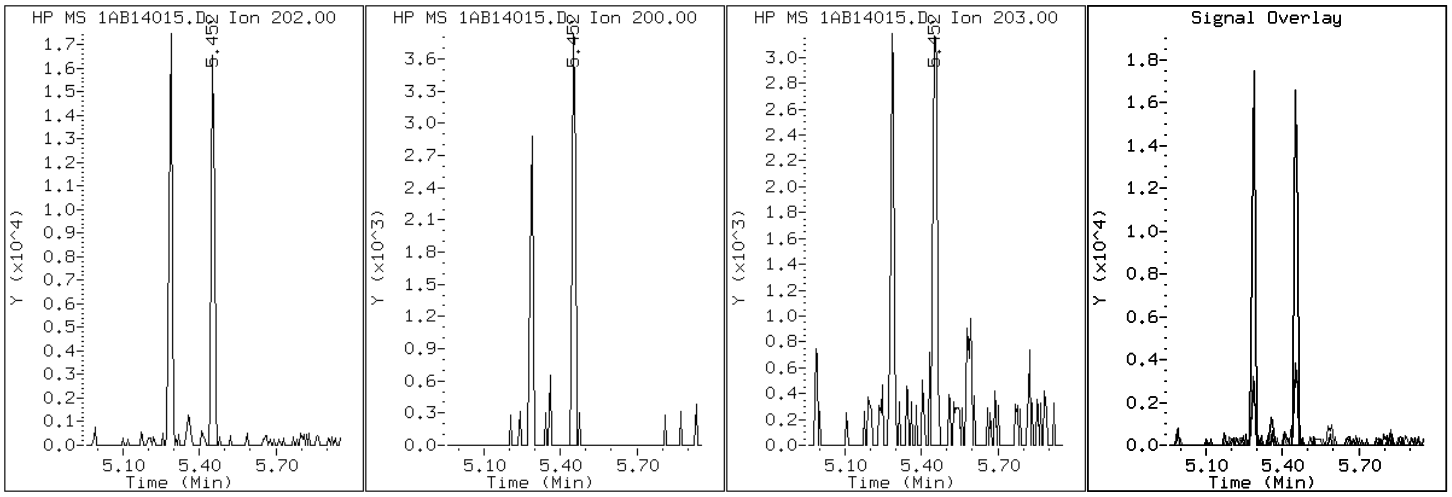
Data File: 1AB14015.D

Date: 14-FEB-2013 13:23

Client ID: CV0748O-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-27-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14015.D
Inj. Date and Time: 14-FEB-2013 13:23
Instrument ID: BSMA5973.i
Client ID: CV0748O-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

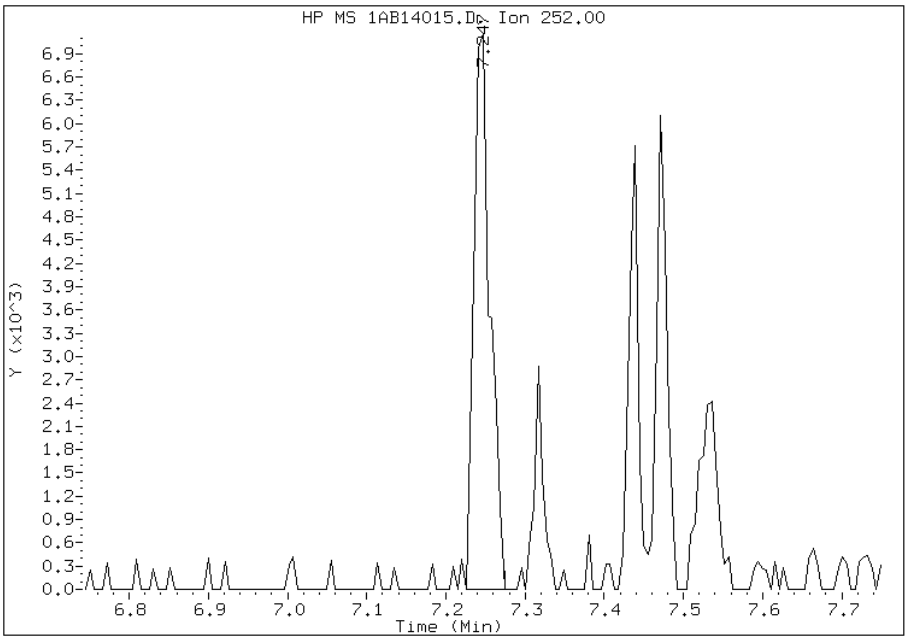
Processing Integration Results

RT: 7.25

Response: 9987

Amount: 1

Conc: 49



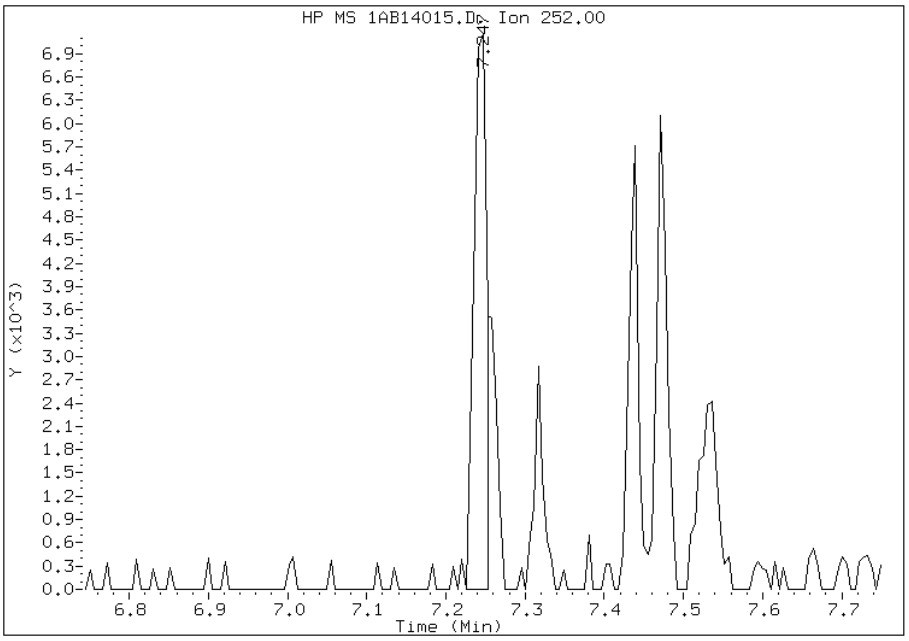
Manual Integration Results

RT: 7.25

Response: 7792

Amount: 1

Conc: 38



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:20
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14015.D
Inj. Date and Time: 14-FEB-2013 13:23
Instrument ID: BSMA5973.i
Client ID: CV0748O-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

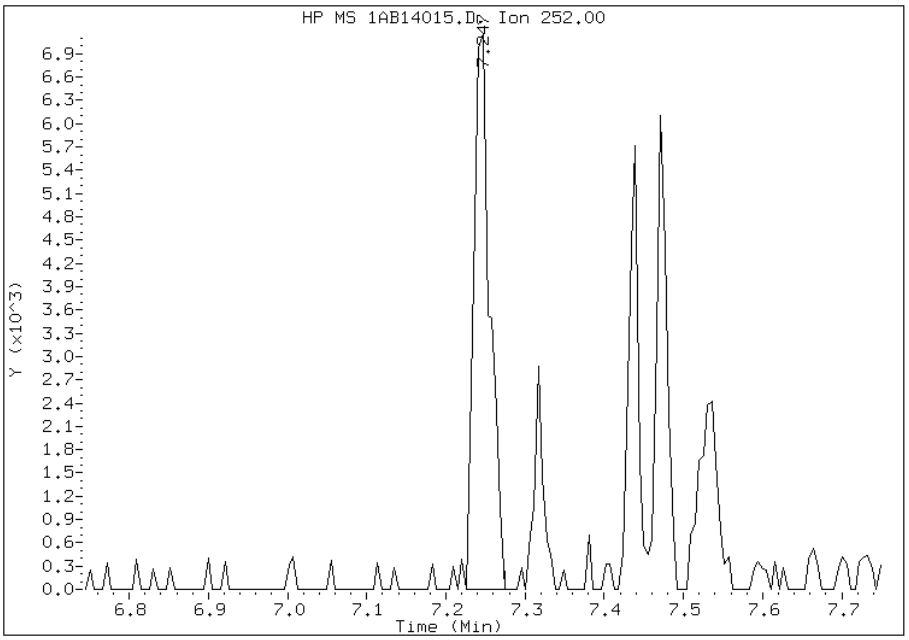
Processing Integration Results

RT: 7.25

Response: 9987

Amount: 1

Conc: 47



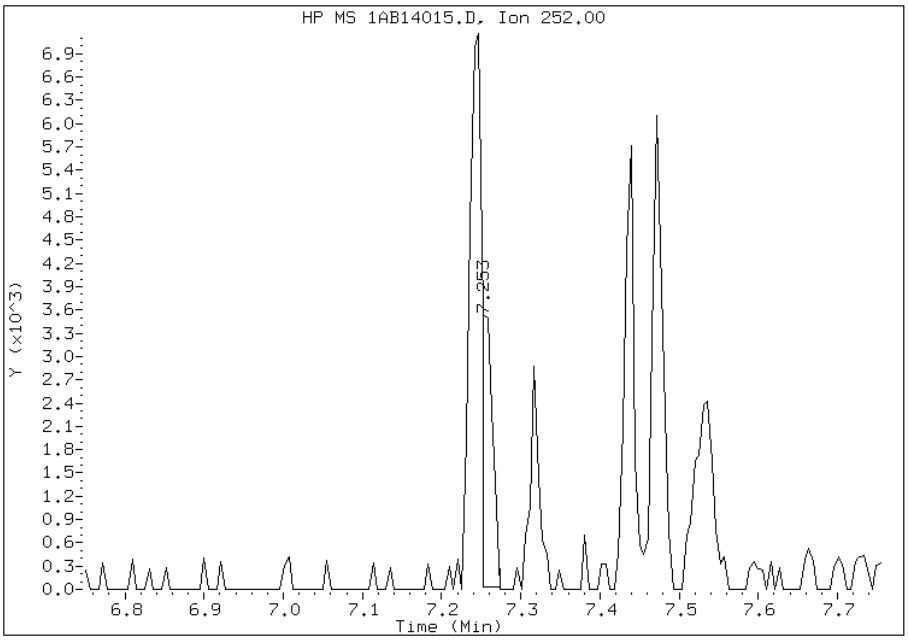
Manual Integration Results

RT: 7.25

Response: 3284

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14015.D
Inj. Date and Time: 14-FEB-2013 13:23
Instrument ID: BSMA5973.i
Client ID: CV0748O-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/15/2013

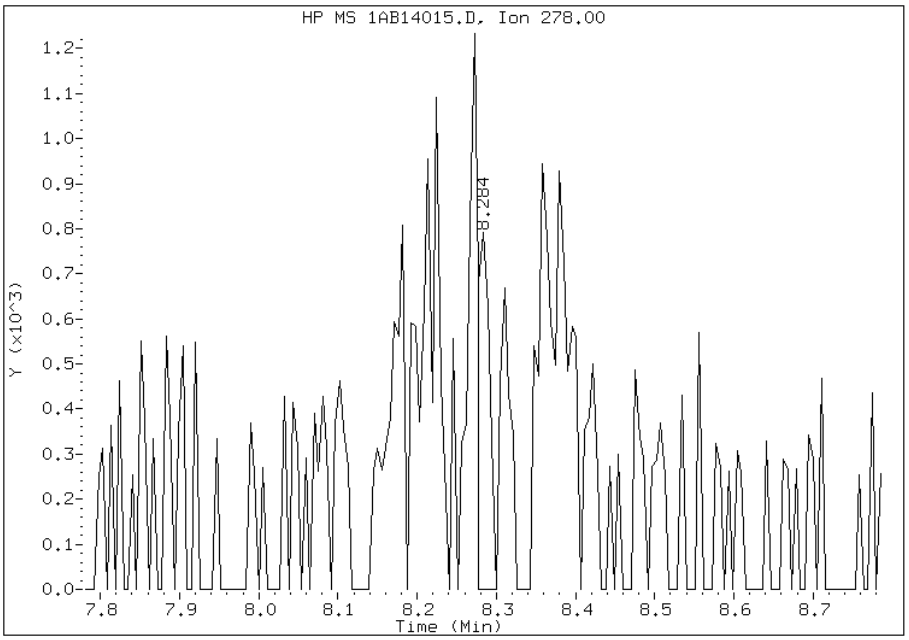
Processing Integration Results

RT: 8.28

Response: 778

Amount: 0

Conc: 5



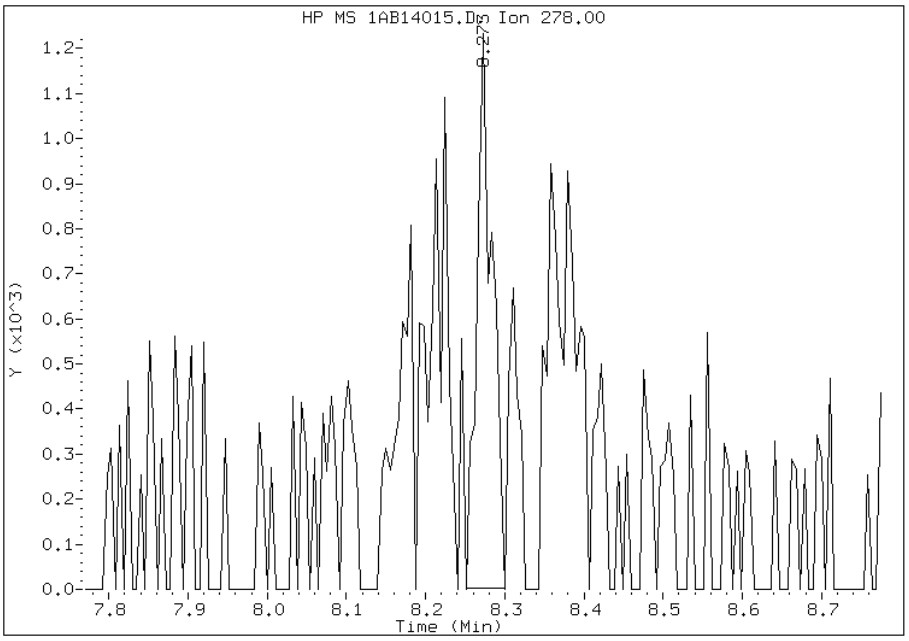
Manual Integration Results

RT: 8.27

Response: 1648

Amount: 0

Conc: 11



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14015.D
Inj. Date and Time: 14-FEB-2013 13:23
Instrument ID: BSMA5973.i
Client ID: CV0748O-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

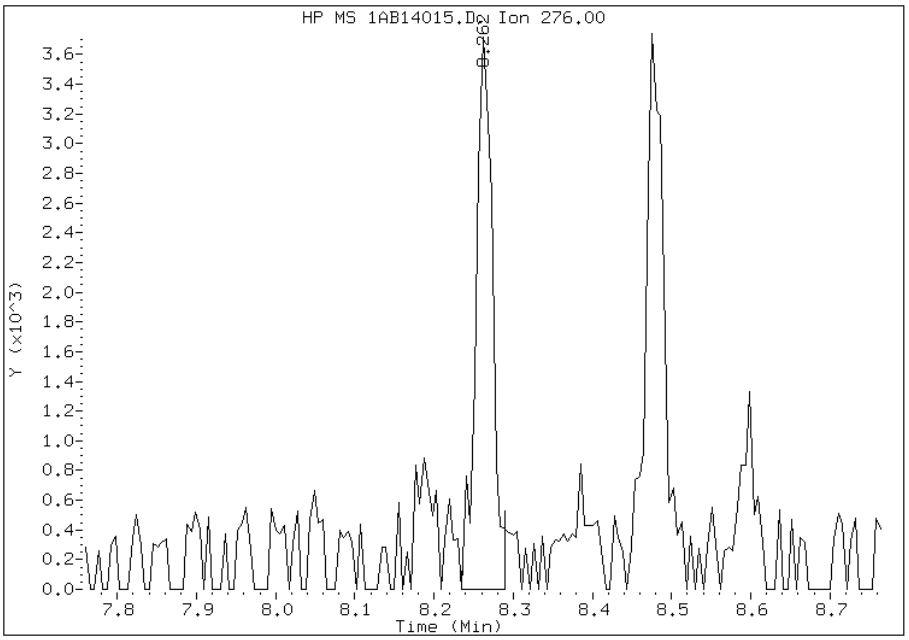
Processing Integration Results

RT: 8.26

Response: 5329

Amount: 0

Conc: 35



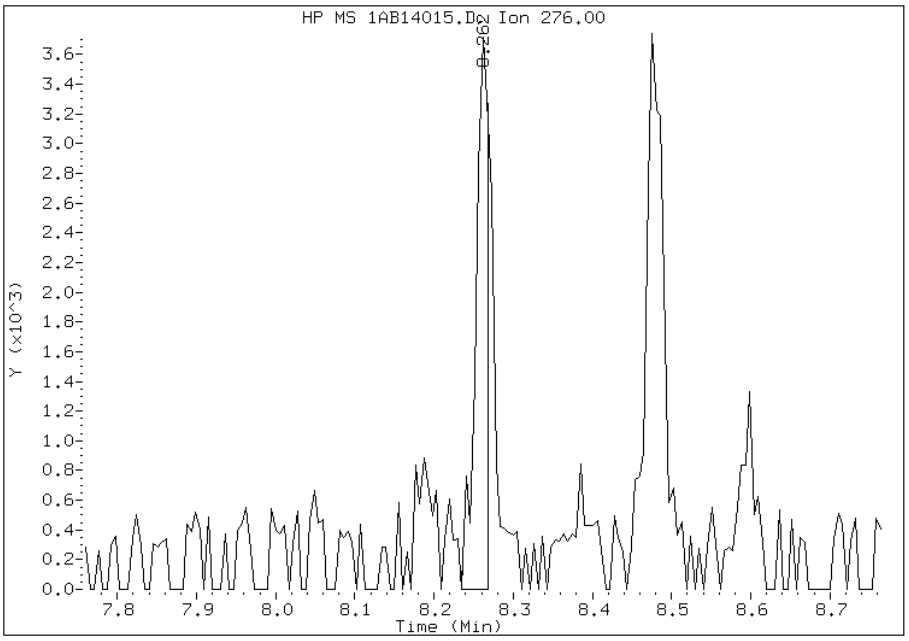
Manual Integration Results

RT: 8.26

Response: 3944

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748P-CS | Lab Sample ID: 680-87218-28

Matrix: Solid | Lab File ID: 1AB14016.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 14:43

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.40(g) | Date Analyzed: 02/14/2013 13:38

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

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

% Moisture: 16.3 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	47	U	47	5.8
120-12-7	Anthracene	8.5	J	9.8	4.9
56-55-3	Benzo[a]anthracene	39		9.3	4.5
50-32-8	Benzo[a]pyrene	25		12	6.0
205-99-2	Benzo[b]fluoranthene	35		14	7.1
191-24-2	Benzo[g,h,i]perylene	30		23	5.1
207-08-9	Benzo[k]fluoranthene	23		9.3	4.2
218-01-9	Chrysene	31		10	5.2
53-70-3	Dibenz(a,h)anthracene	7.9	J	23	4.8
206-44-0	Fluoranthene	48		23	4.7
86-73-7	Fluorene	23	U	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	20	J	23	8.3
90-12-0	1-Methylnaphthalene	8.3	J	47	5.1
91-57-6	2-Methylnaphthalene	11	J	47	8.3
91-20-3	Naphthalene	8.6	J	47	5.1
85-01-8	Phenanthrene	27		9.3	4.5
129-00-0	Pyrene	47		23	4.3

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\1A021413.b\1AB14016.D
Lab Smp Id: 680-87218-A-28-A Client Smp ID: CV0748P-CS
Inj Date : 14-FEB-2013 13:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-28-a
Misc Info : 680-87218-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 16
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	15.400	Weight Extracted
M	16.279	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.432	2.430	(1.000)	895151	40.0000	
* 6 Acenaphthene-d10	164	3.458	3.461	(1.000)	536812	40.0000	
* 10 Phenanthrene-d10	188	4.403	4.402	(1.000)	755631	40.0000	
$ 14 o-Terphenyl	230	4.681	4.685	(1.063)	77217	7.03269	545.4649
* 18 Chrysene-d12	240	6.428	6.426	(1.000)	533268	40.0000	
* 23 Perylene-d12	264	7.529	7.527	(1.000)	557229	40.0000	
2 Naphthalene	128	2.437	2.441	(1.002)	2417	0.11124	8.6280(Q)
3 2-Methylnaphthalene	141	2.843	2.847	(1.169)	1606	0.13797	10.7014
4 1-Methylnaphthalene	142	2.897	2.900	(1.191)	1402	0.10640	8.2528
11 Phenanthrene	178	4.414	4.418	(1.002)	7258	0.35178	27.2848(H)
12 Anthracene	178	4.451	4.455	(1.011)	2305	0.10958	8.4989
15 Fluoranthene	202	5.285	5.283	(1.200)	12732	0.62243	48.2764
16 Pyrene	202	5.450	5.454	(0.848)	11580	0.60128	46.6359
17 Benzo(a)anthracene	228	6.423	6.416	(0.999)	7930	0.49803	38.6280

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.444	6.448	(1.002)	6237	0.40186	31.1691
20 Benzo(b)fluoranthene	252	7.245	7.244	(0.962)	6919	0.44488	34.5057(M)
21 Benzo(k)fluoranthene	252	7.251	7.265	(0.963)	4738	0.29138	22.5998(M)
22 Benzo(a)pyrene	252	7.475	7.479	(0.993)	4774	0.32325	25.0716
24 Indeno(1,2,3-cd)pyrene	276	8.266	8.275	(1.098)	3079	0.26402	20.4779(M)
25 Dibenzo(a,h)anthracene	278	8.276	8.291	(1.099)	1187	0.10181	7.8968(Q)
26 Benzo(g,h,i)perylene	276	8.479	8.494	(1.126)	4610	0.38157	29.5951

QC Flag Legend

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

Data File: 1AB14016.D

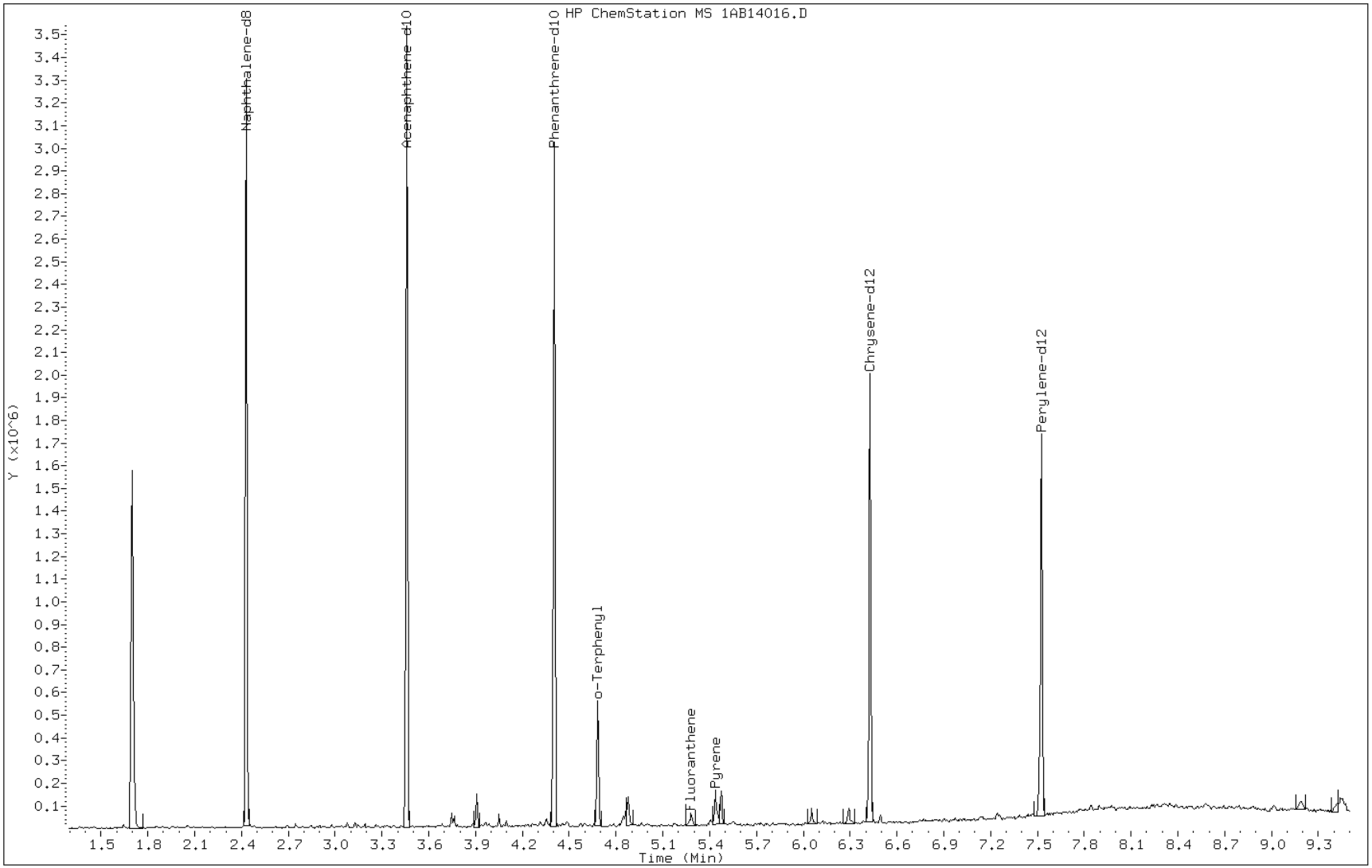
Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a

Operator: SCC



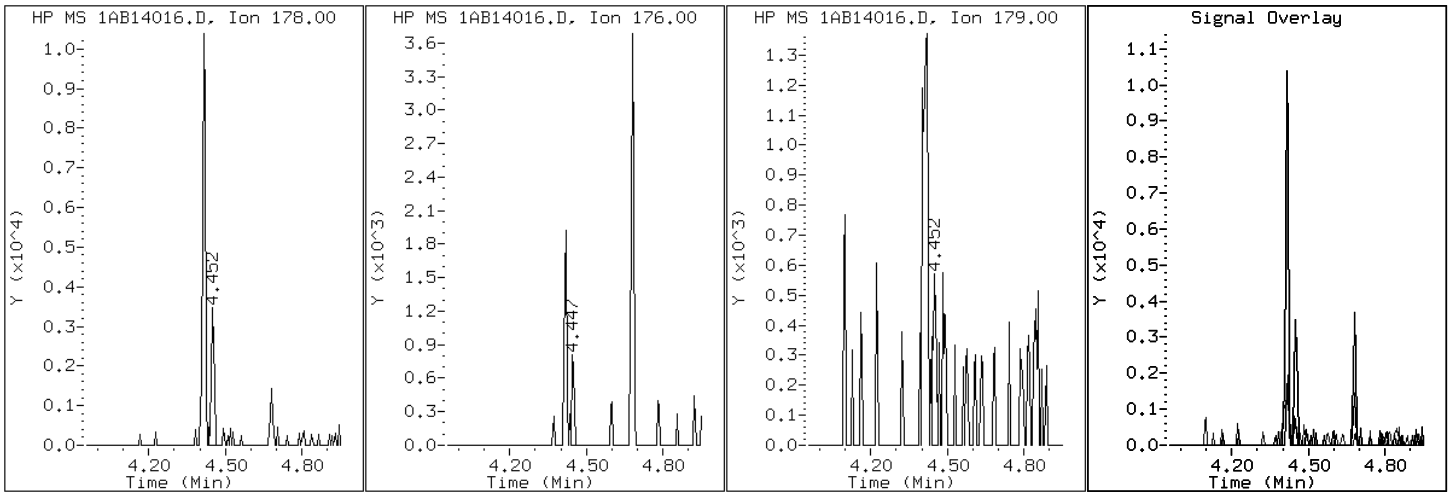
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

12 Anthracene



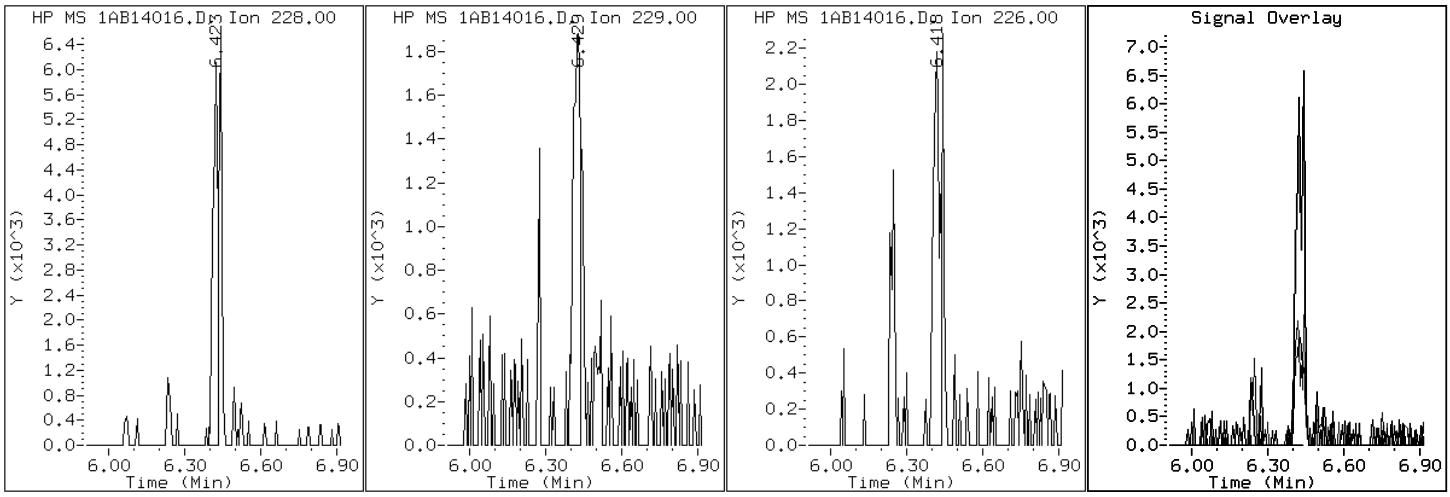
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

17 Benzo(a)anthracene



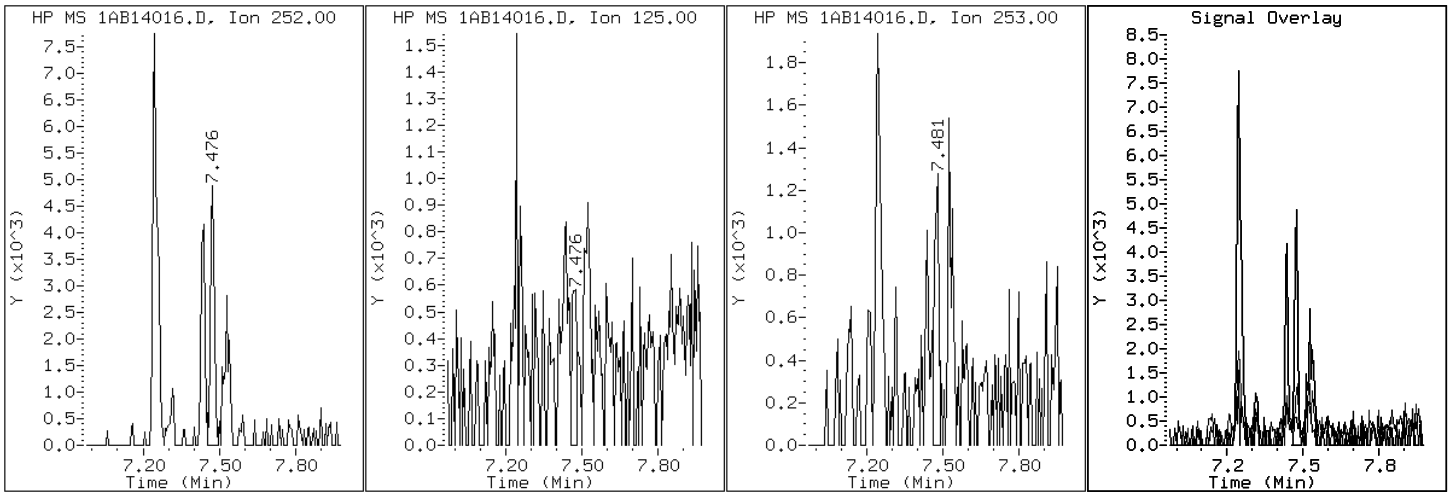
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

22 Benzo(a)pyrene



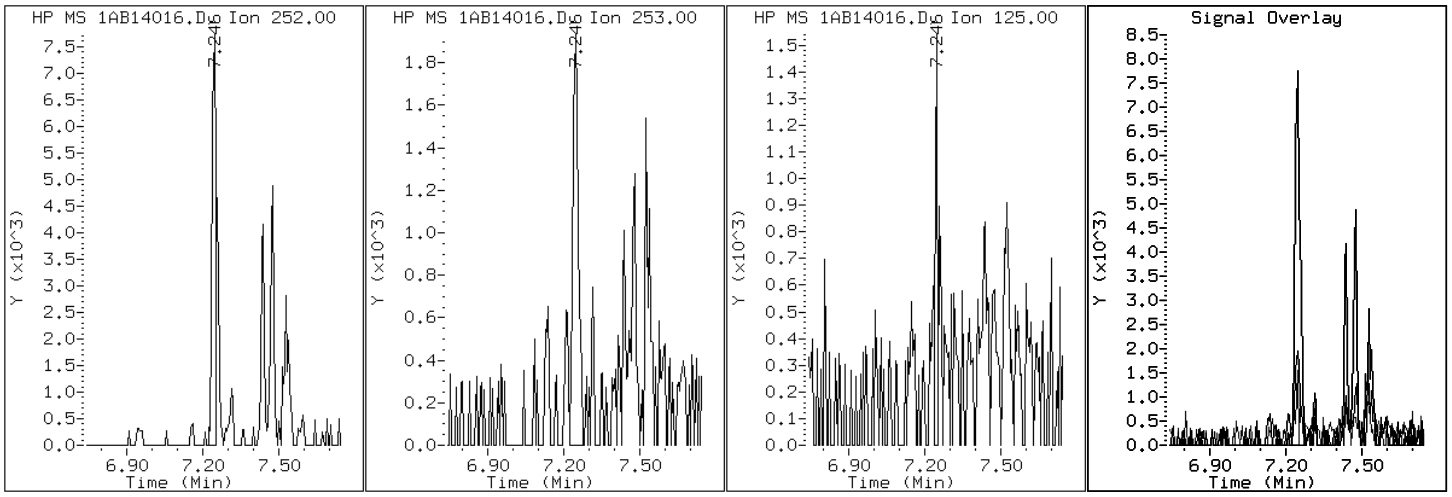
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

20 Benzo(b)fluoranthene



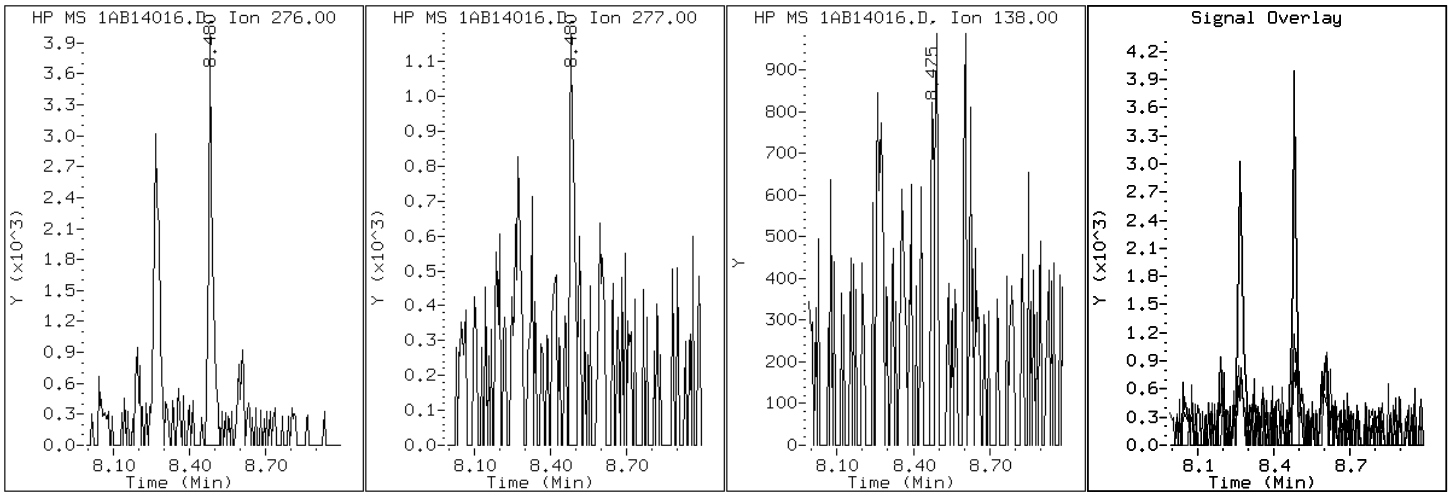
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

26 Benzo(g,h,i)perylene



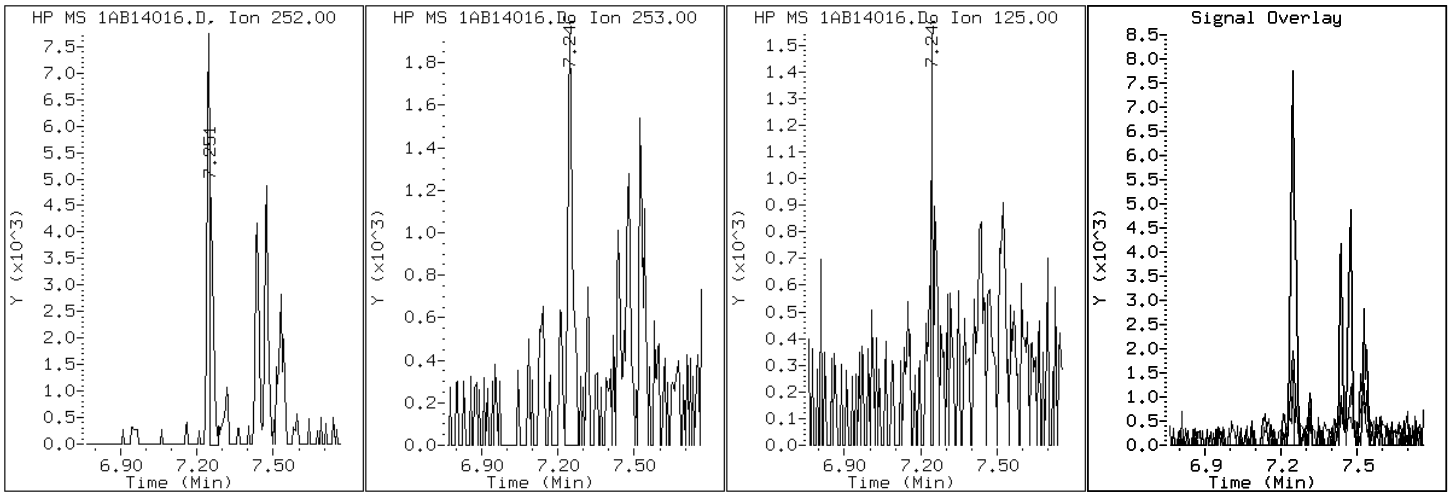
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

21 Benzo(k)fluoranthene



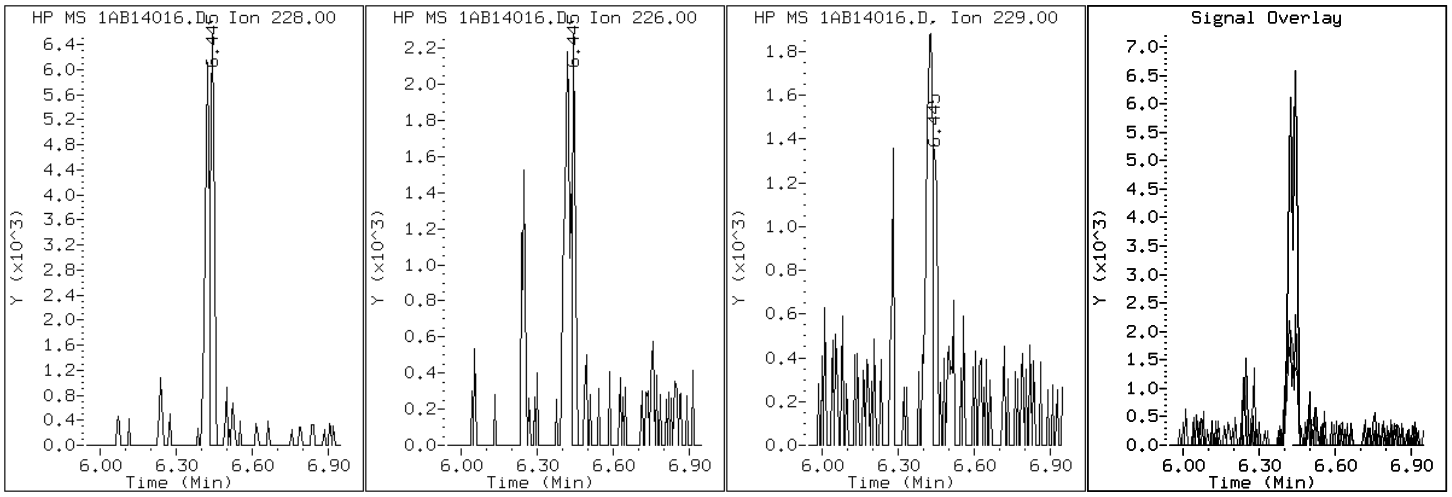
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

19 Chrysene



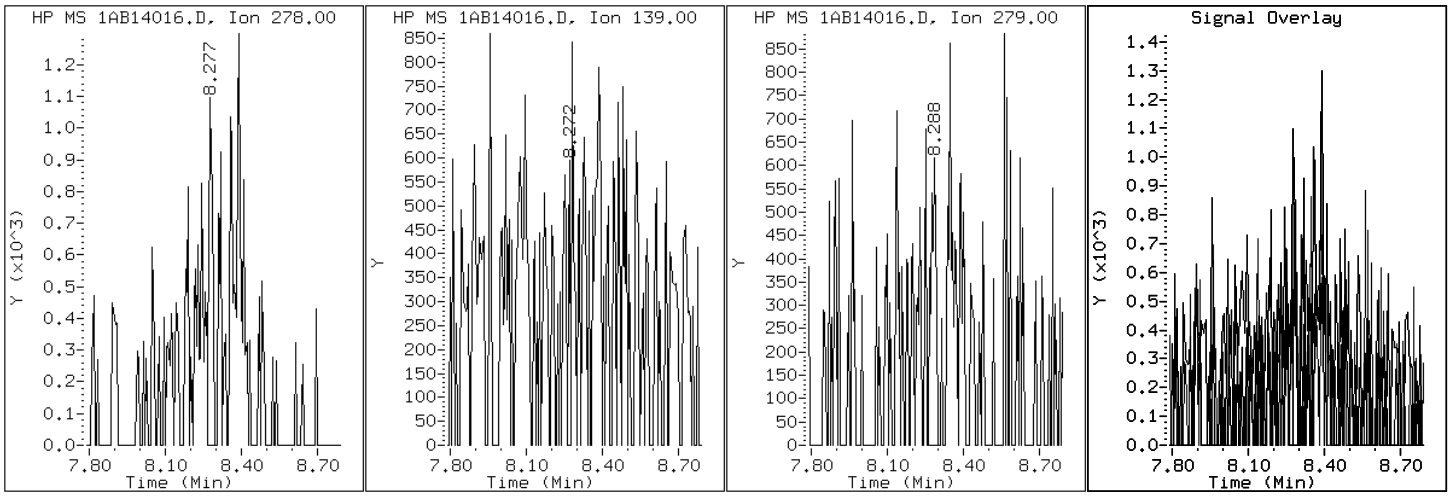
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

25 Dibenzo(a,h)anthracene



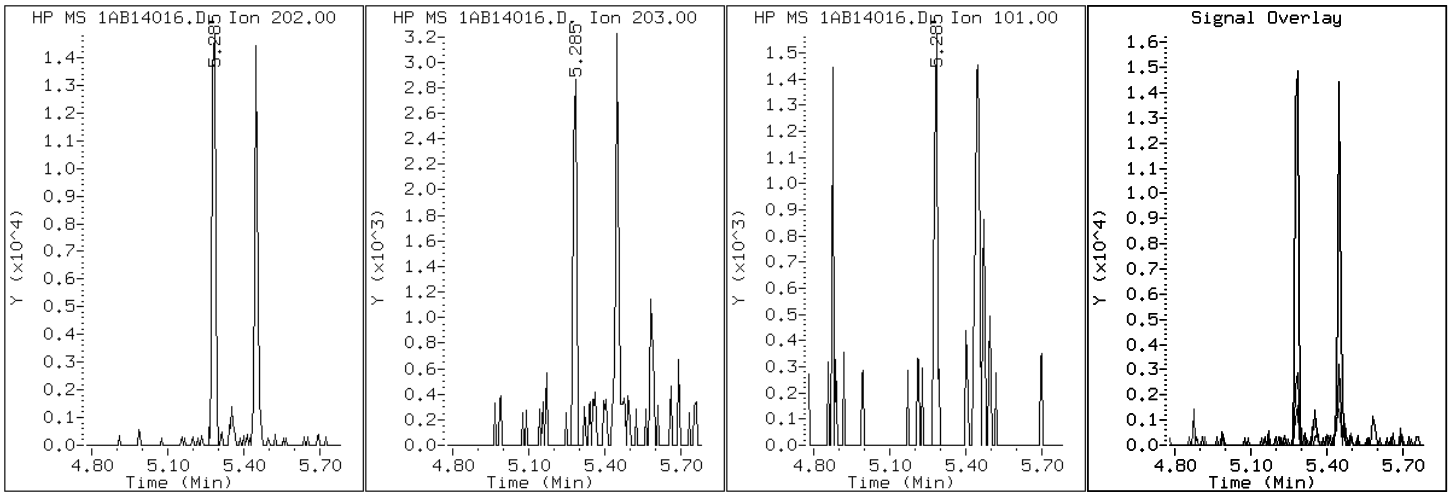
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

15 Fluoranthene



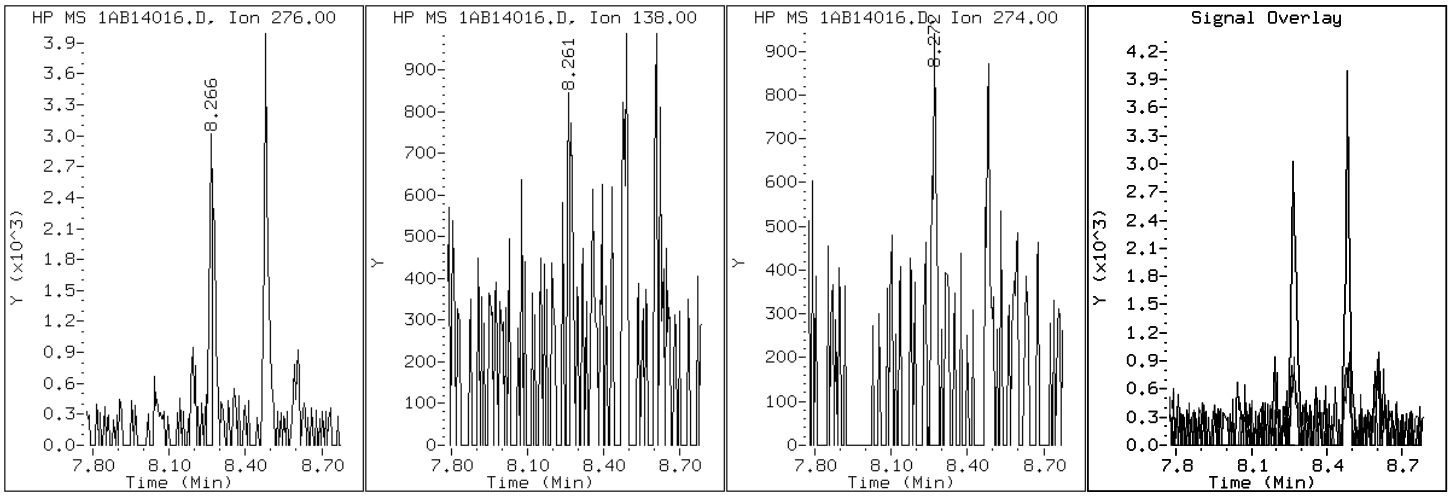
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

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



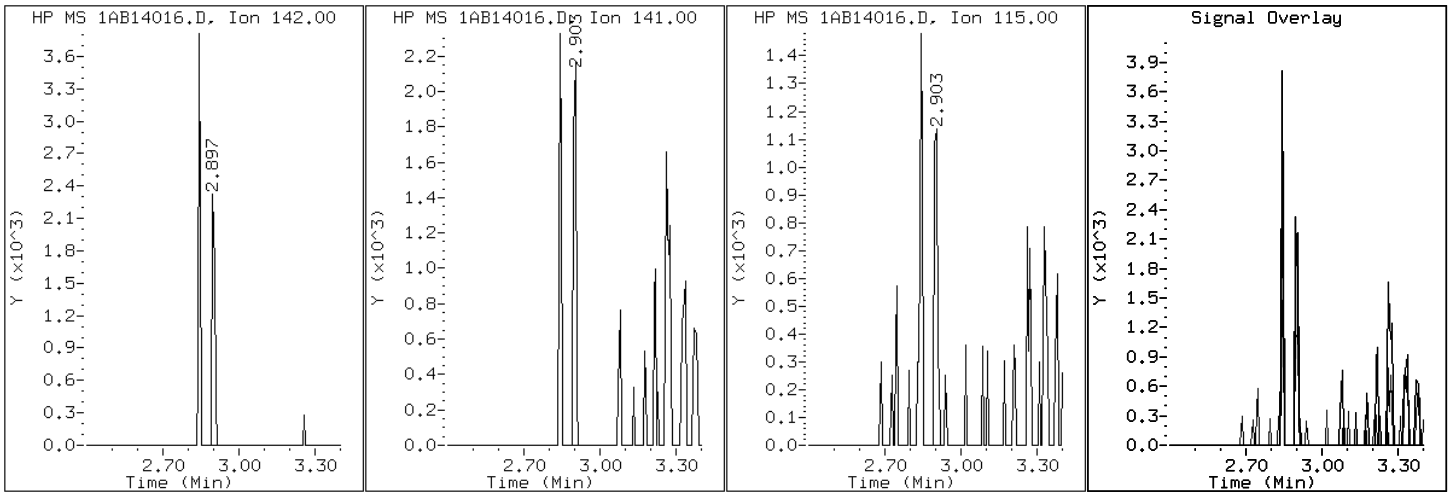
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

4 1-Methylnaphthalene



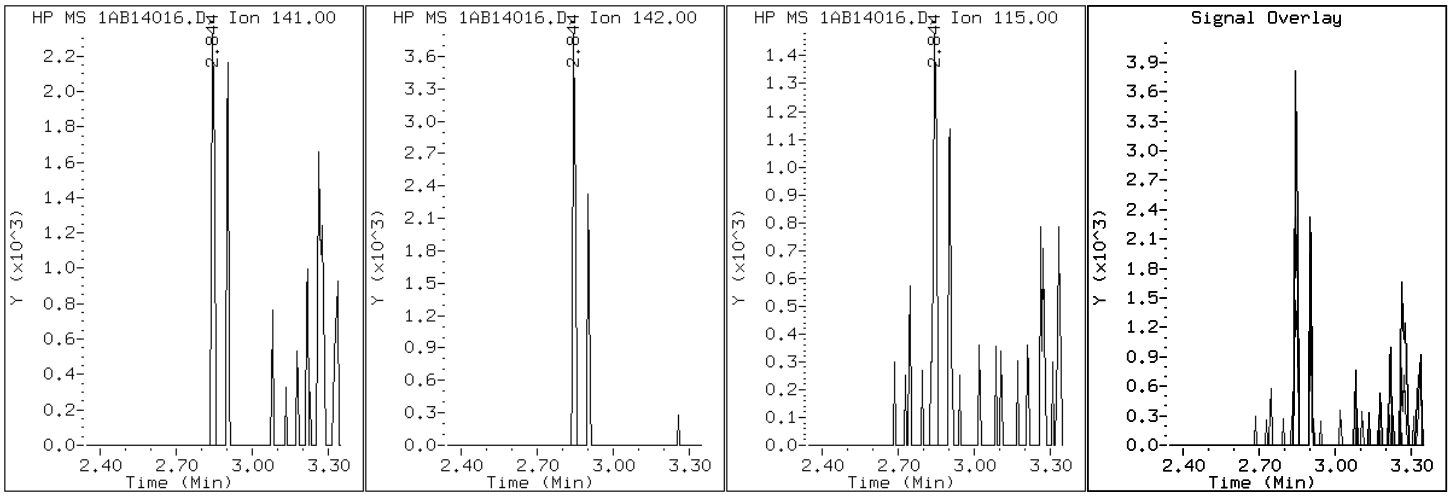
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

3 2-Methylnaphthalene



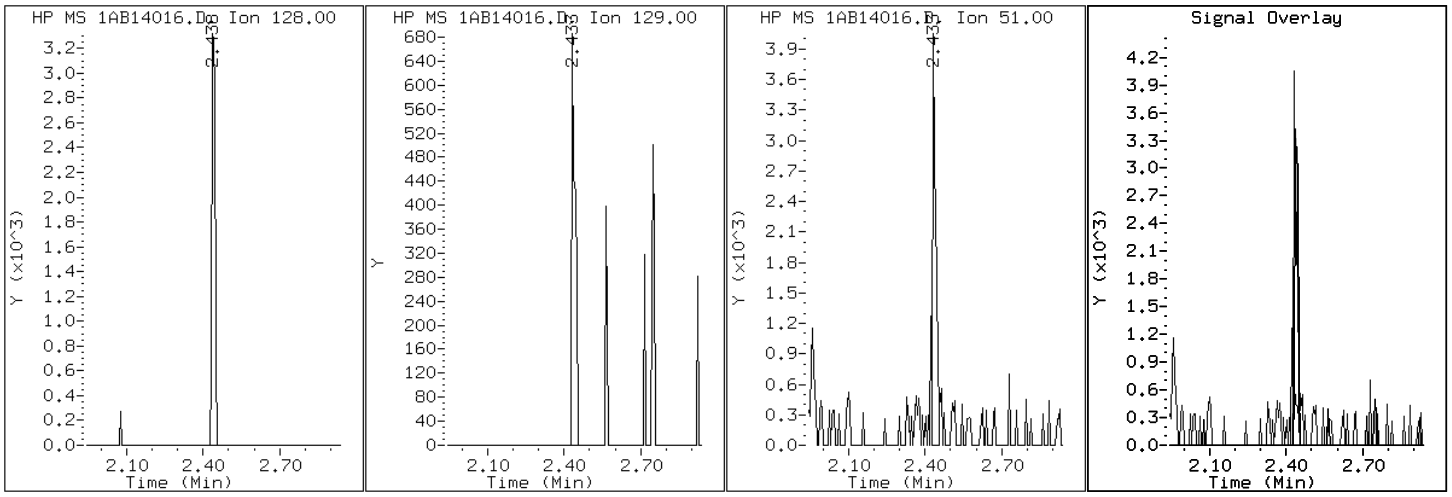
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

2 Naphthalene



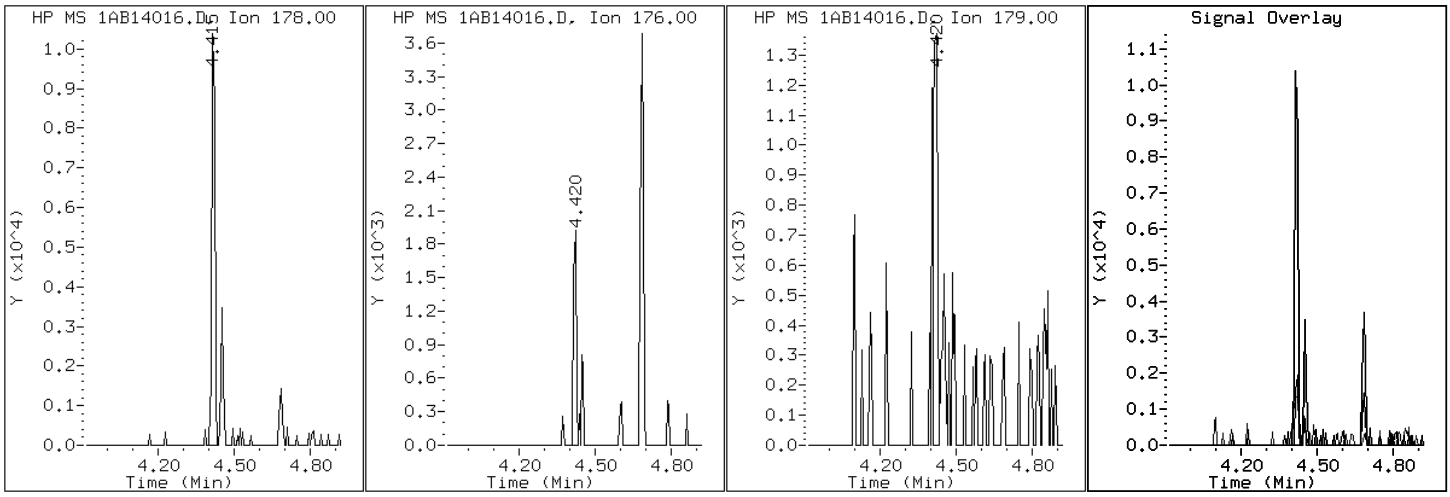
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

11 Phenanthrene



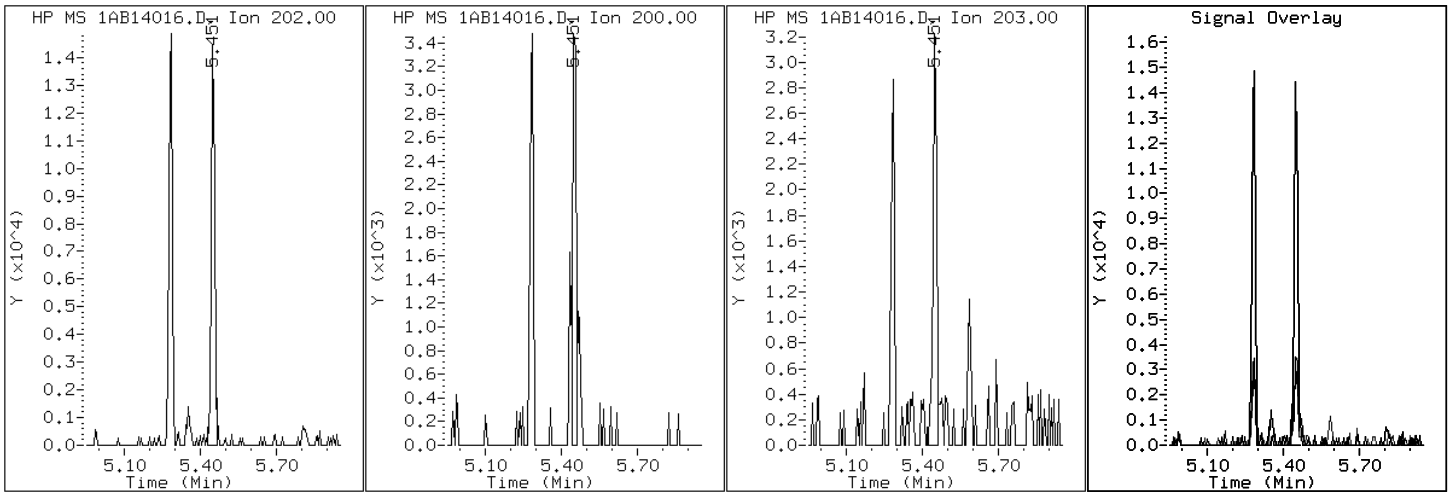
Data File: 1AB14016.D

Date: 14-FEB-2013 13:38

Client ID: CV0748P-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-28-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14016.D
Inj. Date and Time: 14-FEB-2013 13:38
Instrument ID: BSMA5973.i
Client ID: CV0748P-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

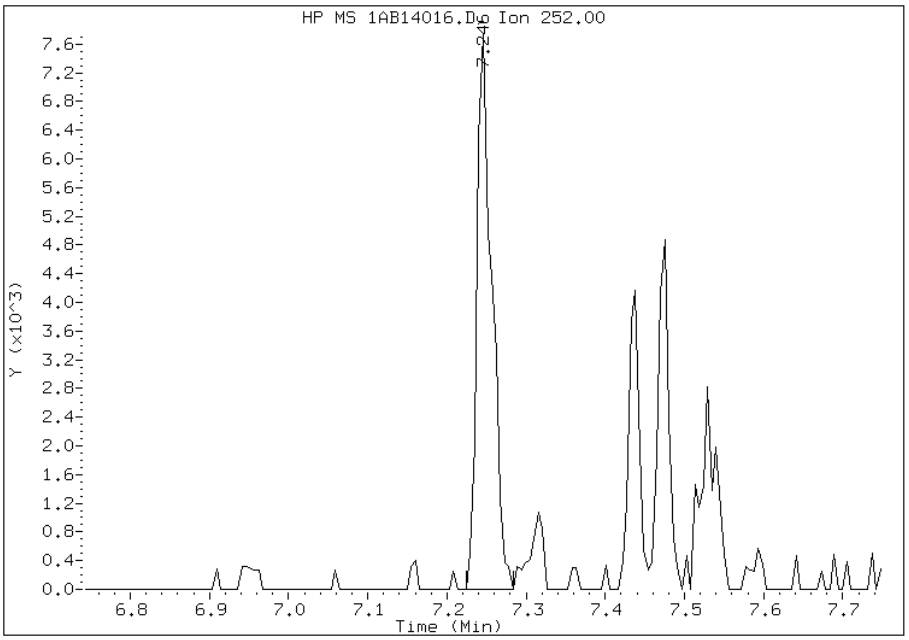
Processing Integration Results

RT: 7.25

Response: 10005

Amount: 1

Conc: 50



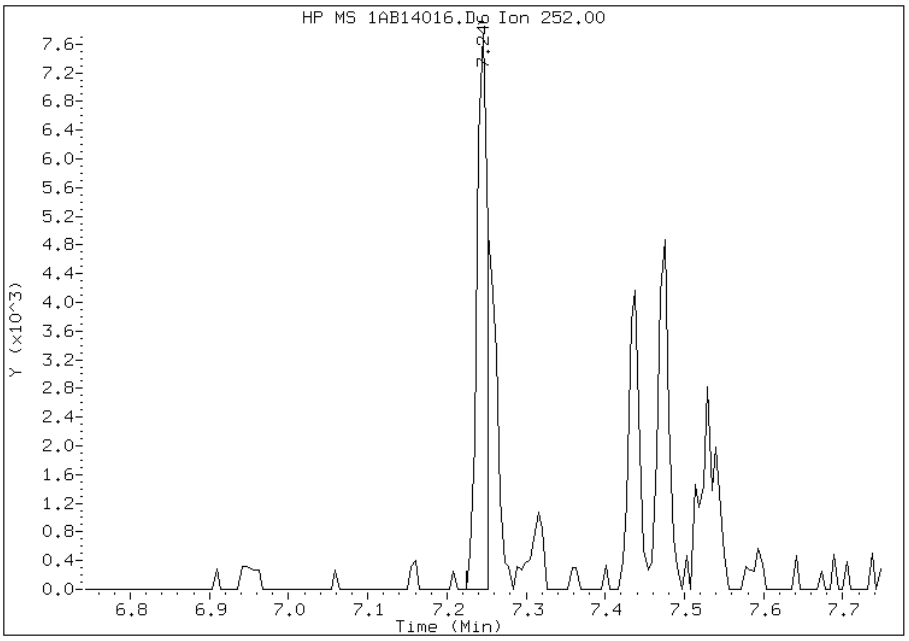
Manual Integration Results

RT: 7.25

Response: 6919

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14016.D
Inj. Date and Time: 14-FEB-2013 13:38
Instrument ID: BSMA5973.i
Client ID: CV0748P-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

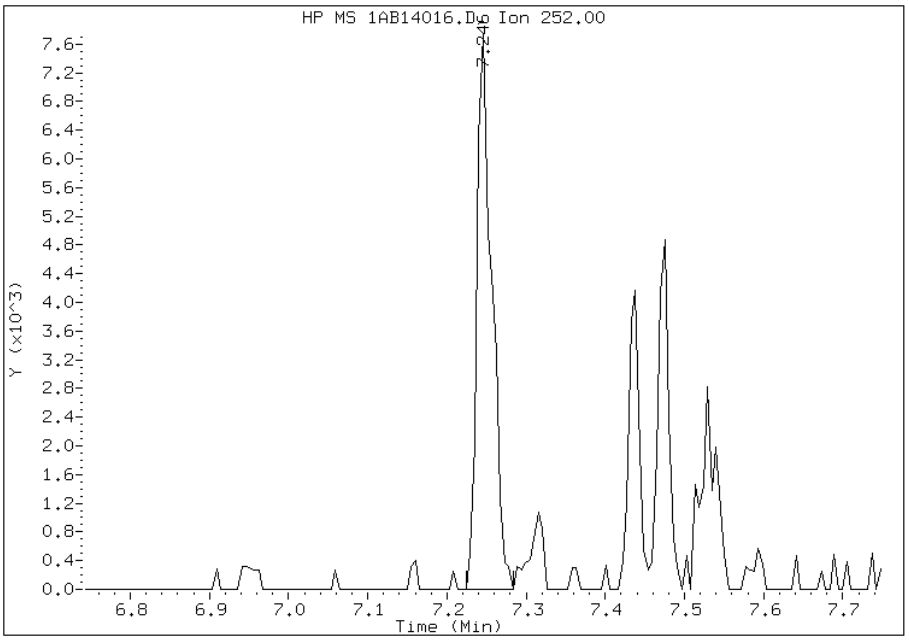
Processing Integration Results

RT: 7.25

Response: 10005

Amount: 1

Conc: 48



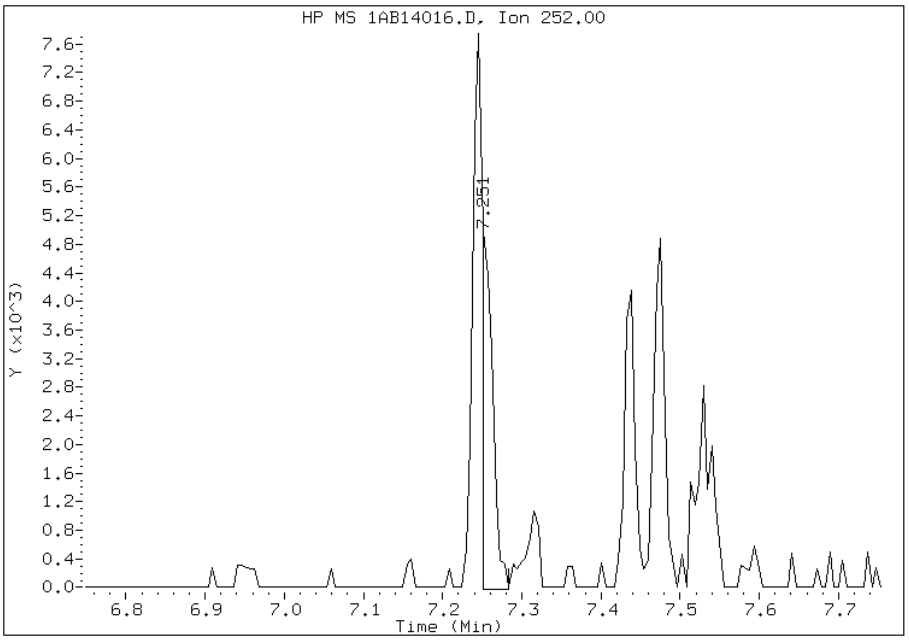
Manual Integration Results

RT: 7.25

Response: 4738

Amount: 0

Conc: 23



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14016.D
Inj. Date and Time: 14-FEB-2013 13:38
Instrument ID: BSMA5973.i
Client ID: CV0748P-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

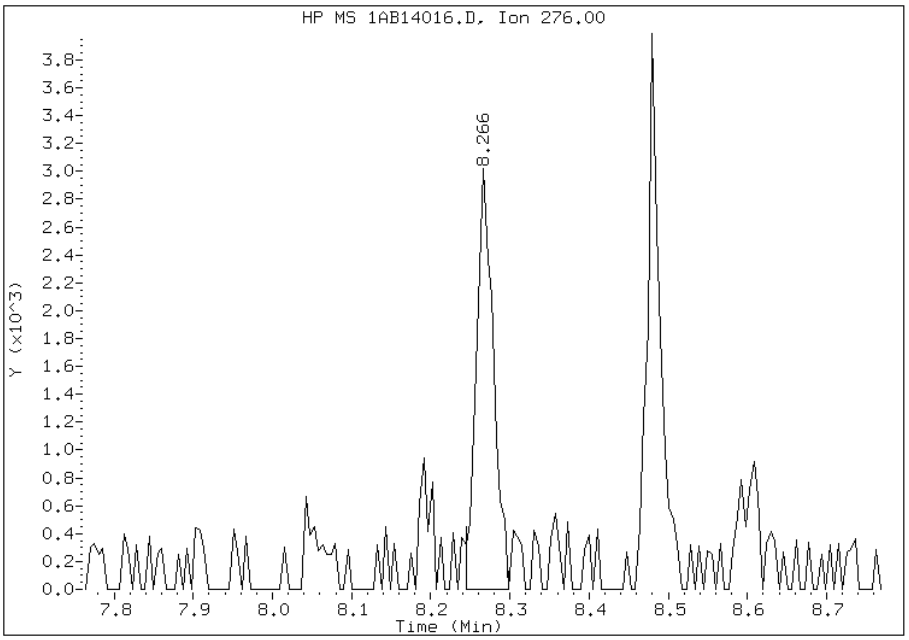
Processing Integration Results

RT: 8.27

Response: 4469

Amount: 0

Conc: 30



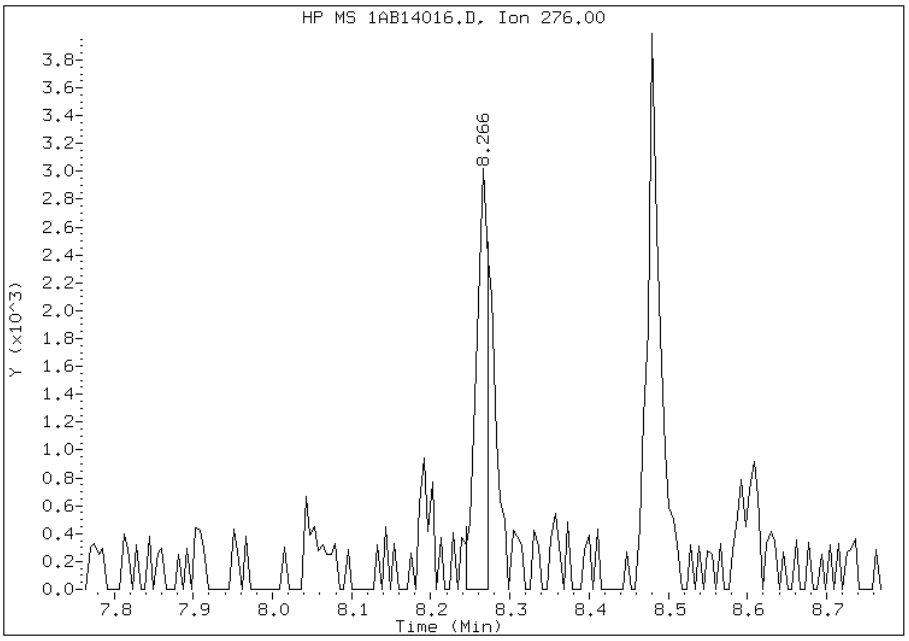
Manual Integration Results

RT: 8.27

Response: 3079

Amount: 0

Conc: 20



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748Q-CS | Lab Sample ID: 680-87218-29

Matrix: Solid | Lab File ID: 1AB14017.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 14:42

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.14(g) | Date Analyzed: 02/14/2013 13:53

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

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

% Moisture: 12.9 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	9.0	J	45	5.7
120-12-7	Anthracene	13		9.6	4.8
56-55-3	Benzo[a]anthracene	50		9.1	4.4
50-32-8	Benzo[a]pyrene	34		12	5.9
205-99-2	Benzo[b]fluoranthene	53		14	6.9
191-24-2	Benzo[g,h,i]perylene	28		23	5.0
207-08-9	Benzo[k]fluoranthene	18		9.1	4.1
218-01-9	Chrysene	43		10	5.1
53-70-3	Dibenz(a,h)anthracene	12	J	23	4.7
206-44-0	Fluoranthene	61		23	4.5
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	26		23	8.1
90-12-0	1-Methylnaphthalene	11	J	45	5.0
91-57-6	2-Methylnaphthalene	12	J	45	8.1
91-20-3	Naphthalene	12	J	45	5.0
85-01-8	Phenanthrene	33		9.1	4.4
129-00-0	Pyrene	58		23	4.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14017.D
Lab Smp Id: 680-87218-A-29-A Client Smp ID: CV0748Q-CS
Inj Date : 14-FEB-2013 13:53
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-29-a
Misc Info : 680-87218-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	12.885	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.431	2.430	(1.000)	907921	40.0000	
* 6 Acenaphthene-d10	164	3.462	3.461	(1.000)	550369	40.0000	
* 10 Phenanthrene-d10	188	4.402	4.402	(1.000)	763331	40.0000	
$ 14 o-Terphenyl	230	4.685	4.685	(1.064)	90313	8.14246	617.3552
* 18 Chrysene-d12	240	6.427	6.426	(1.000)	566786	40.0000	
* 23 Perylene-d12	264	7.527	7.527	(1.000)	528533	40.0000	
2 Naphthalene	128	2.442	2.441	(1.004)	3522	0.15982	12.1173(Q)
3 2-Methylnaphthalene	141	2.848	2.847	(1.171)	1890	0.16009	12.1378
4 1-Methylnaphthalene	142	2.901	2.900	(1.193)	1935	0.14479	10.9778
5 Acenaphthylene	152	3.377	3.371	(0.975)	2888	0.11884	9.0103
11 Phenanthrene	178	4.418	4.418	(1.004)	9023	0.43292	32.8236
12 Anthracene	178	4.456	4.455	(1.012)	3752	0.17657	13.3870
15 Fluoranthene	202	5.284	5.283	(1.200)	16703	0.80832	61.2864
16 Pyrene	202	5.449	5.454	(0.848)	15763	0.77007	58.3864

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.422	6.416	(0.999)	11236	0.66393	50.3386
19 Chrysene	228	6.443	6.448	(1.002)	9263	0.56154	42.5756
20 Benzo(b)fluoranthene	252	7.239	7.244	(0.962)	10339	0.70088	53.1400(M)
21 Benzo(k)fluoranthene	252	7.255	7.265	(0.964)	3635	0.23568	17.8694(QM)
22 Benzo(a)pyrene	252	7.474	7.479	(0.993)	6231	0.44481	33.7251
24 Indeno(1,2,3-cd)pyrene	276	8.265	8.275	(1.098)	3761	0.34001	25.7796(MH)
25 Dibenzo(a,h)anthracene	278	8.275	8.291	(1.099)	1814	0.16404	12.4376(H)
26 Benzo(g,h,i)perylene	276	8.478	8.494	(1.126)	4181	0.36485	27.6627(H)

QC Flag Legend

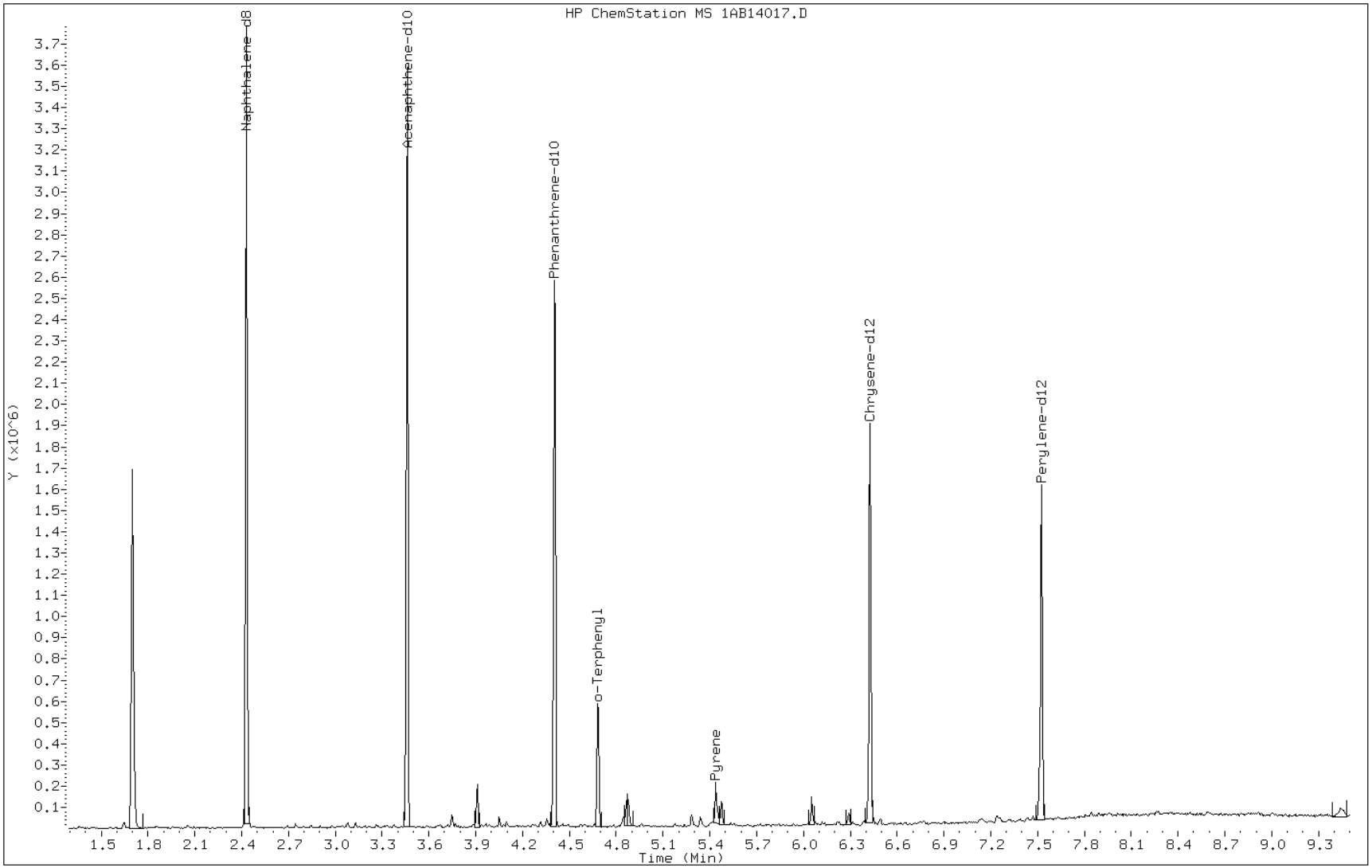
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a | Operator: SCC



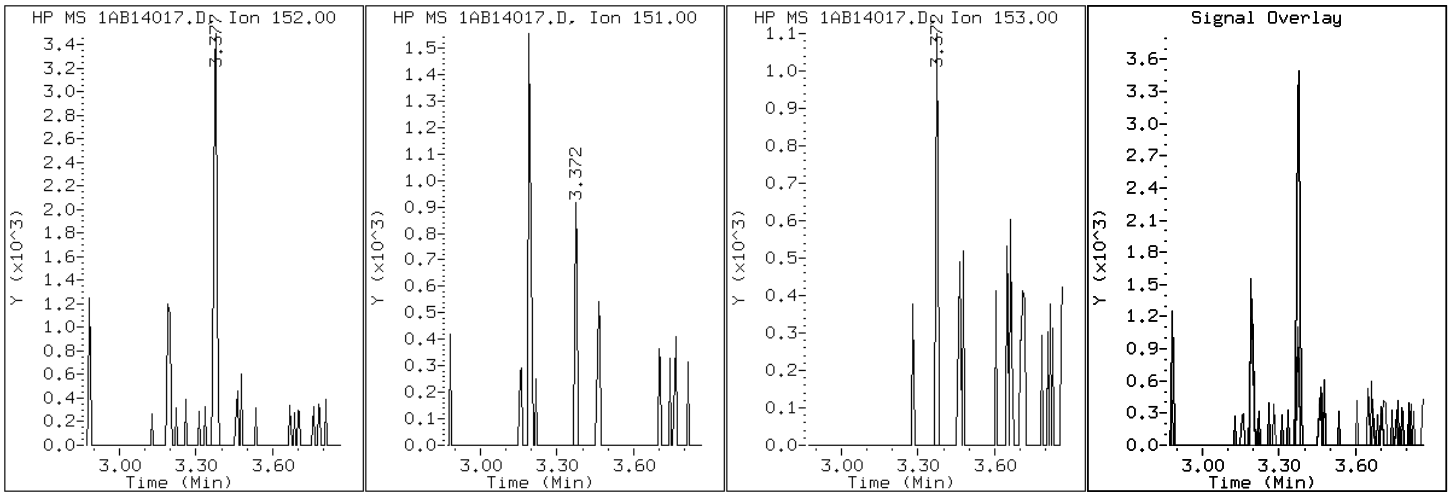
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

5 Acenaphthylene



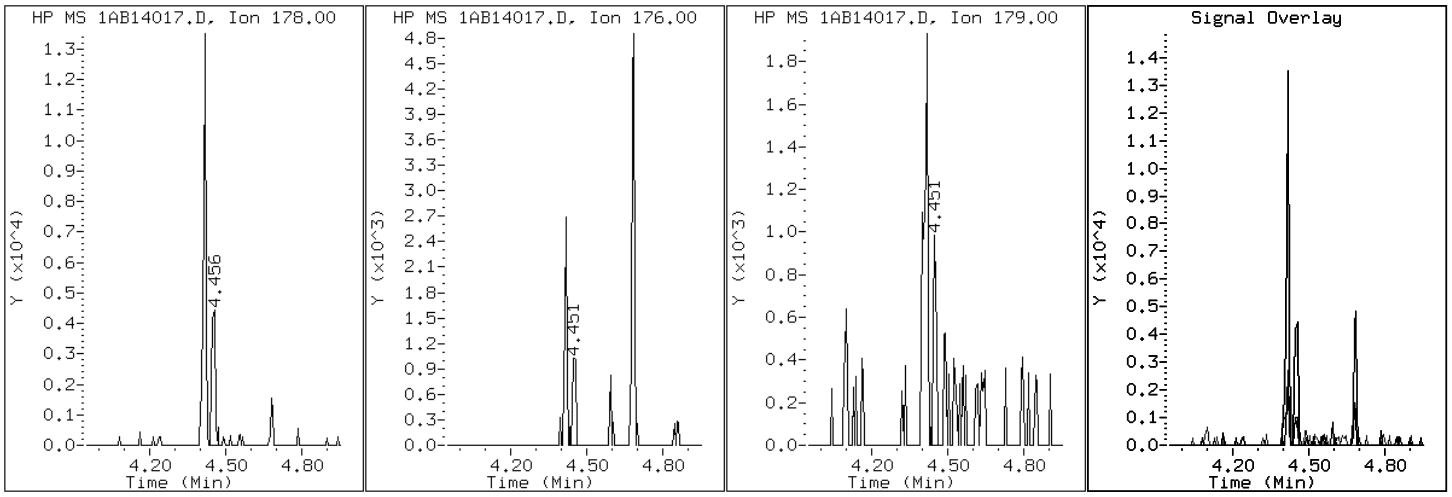
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

12 Anthracene



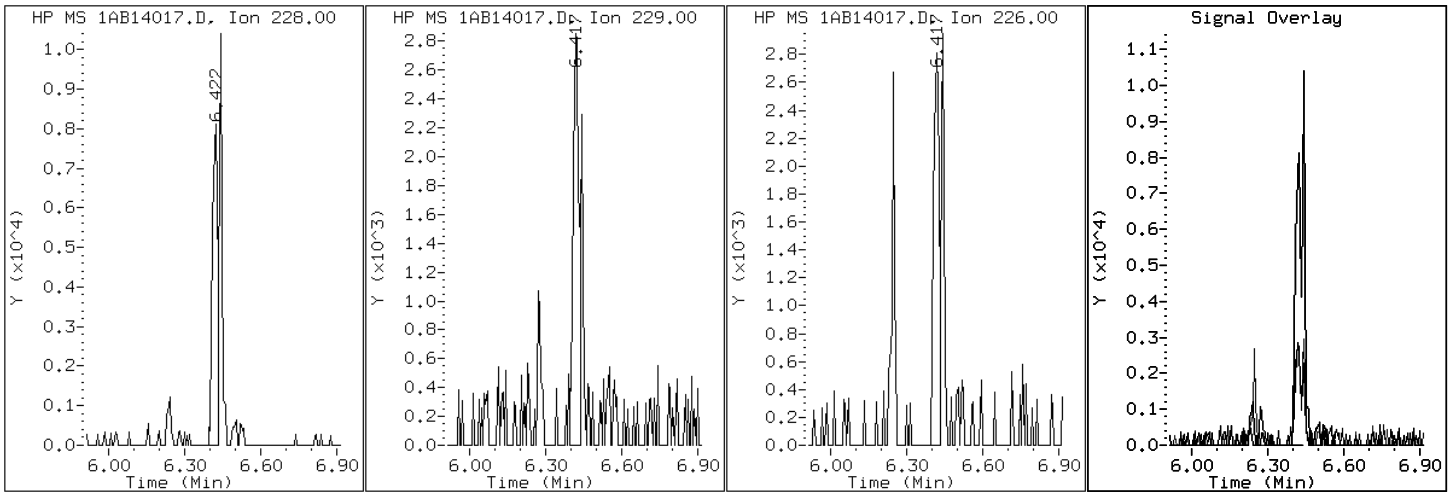
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

17 Benzo(a)anthracene



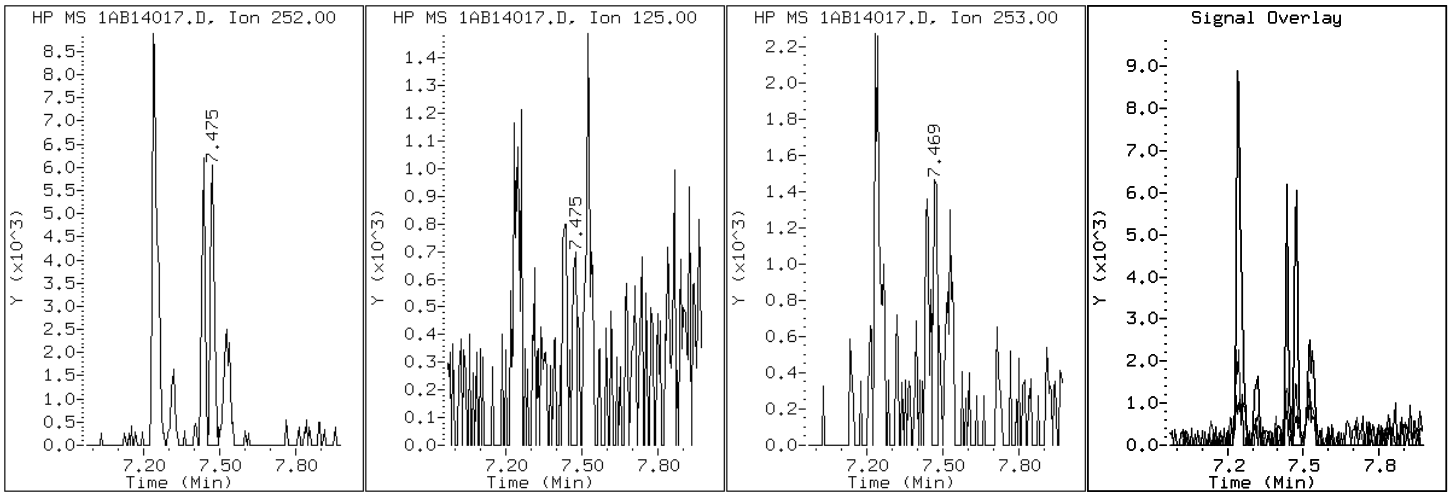
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

22 Benzo(a)pyrene



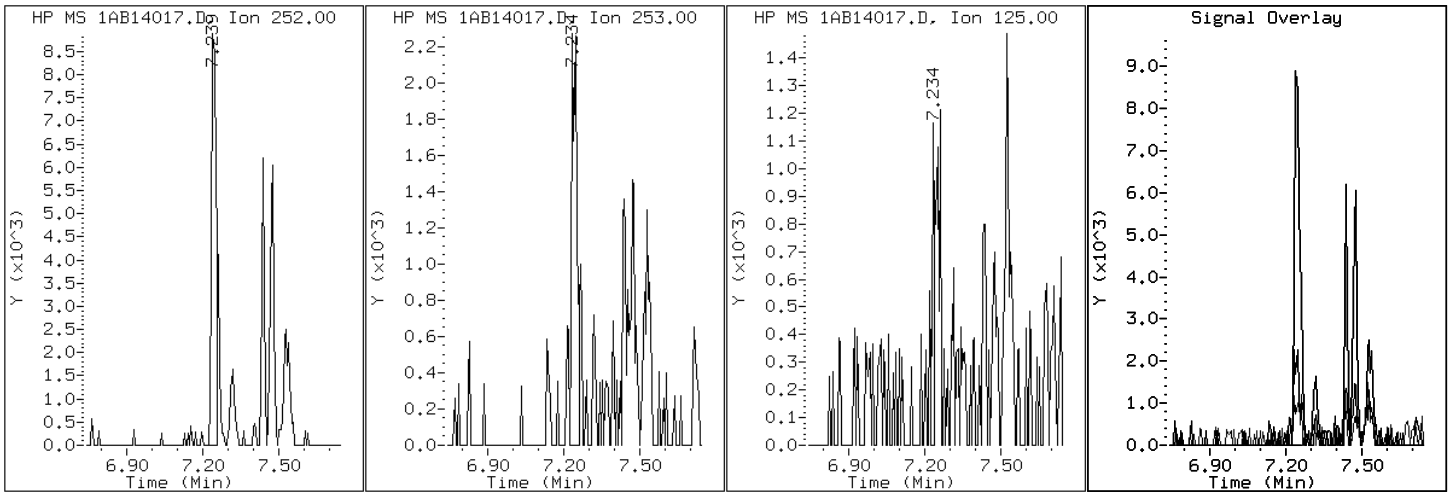
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

20 Benzo(b)fluoranthene



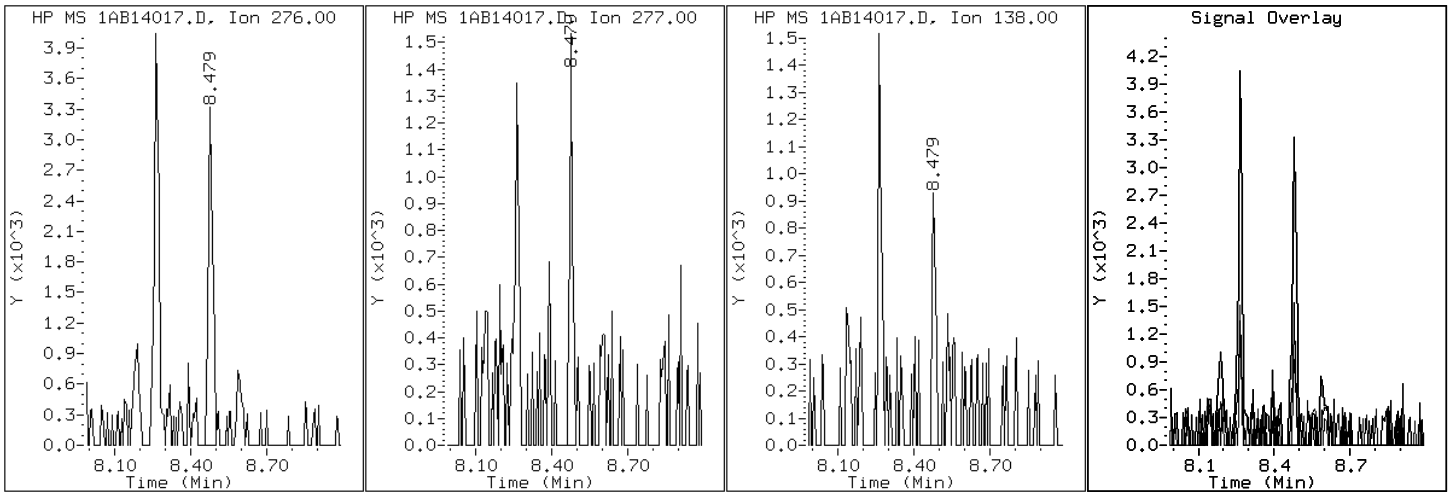
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

26 Benzo(g,h,i)perylene



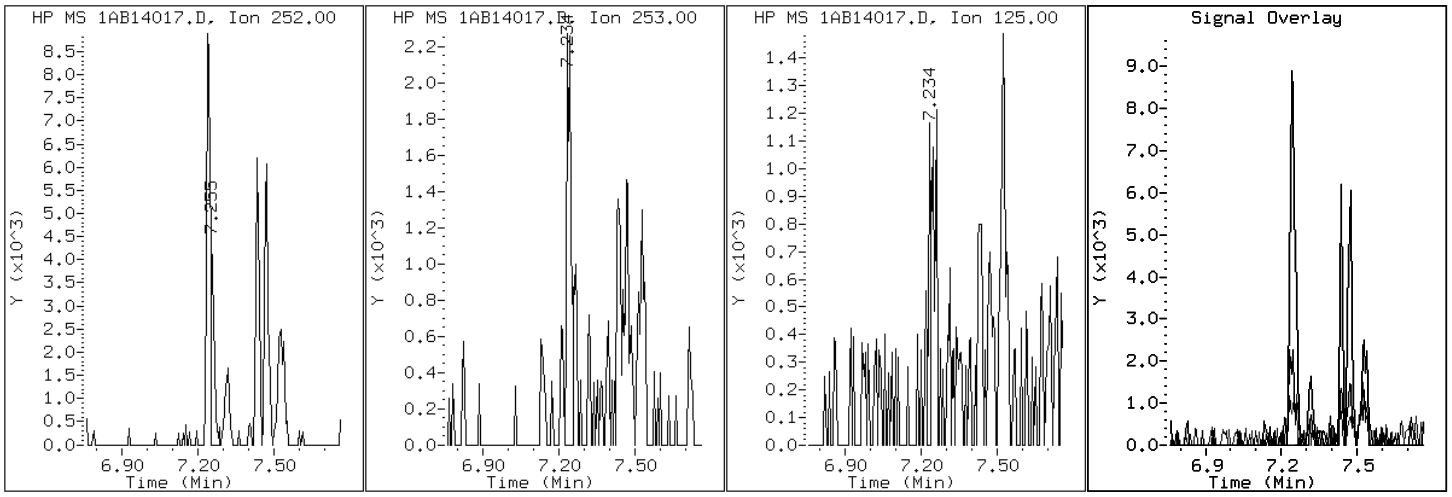
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

21 Benzo(k)fluoranthene



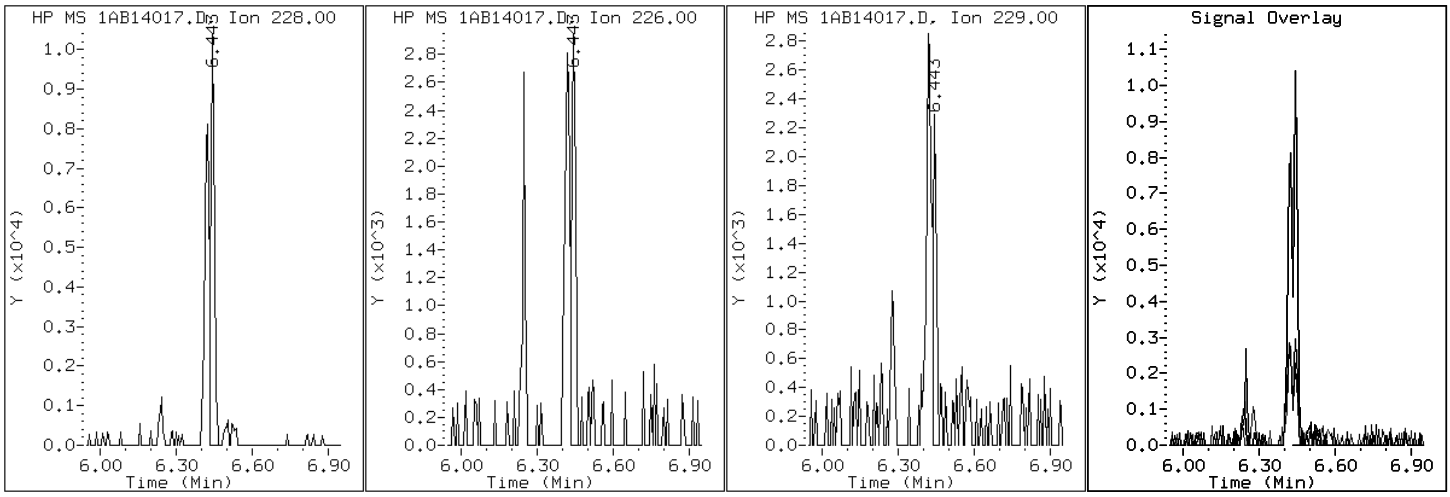
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

19 Chrysene



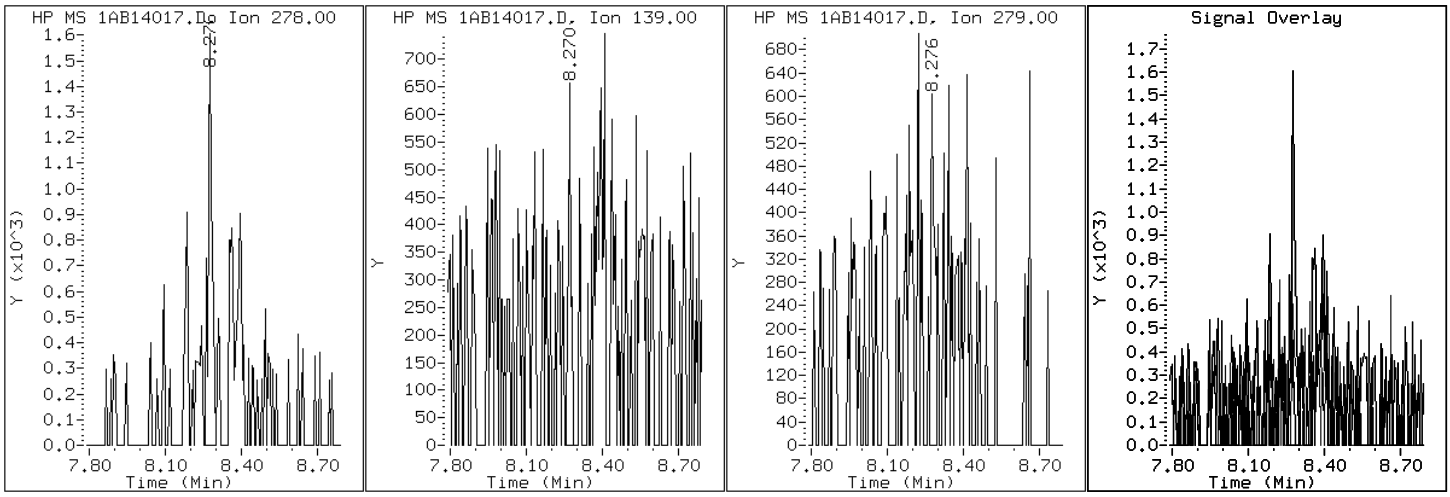
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

25 Dibenzo(a,h)anthracene



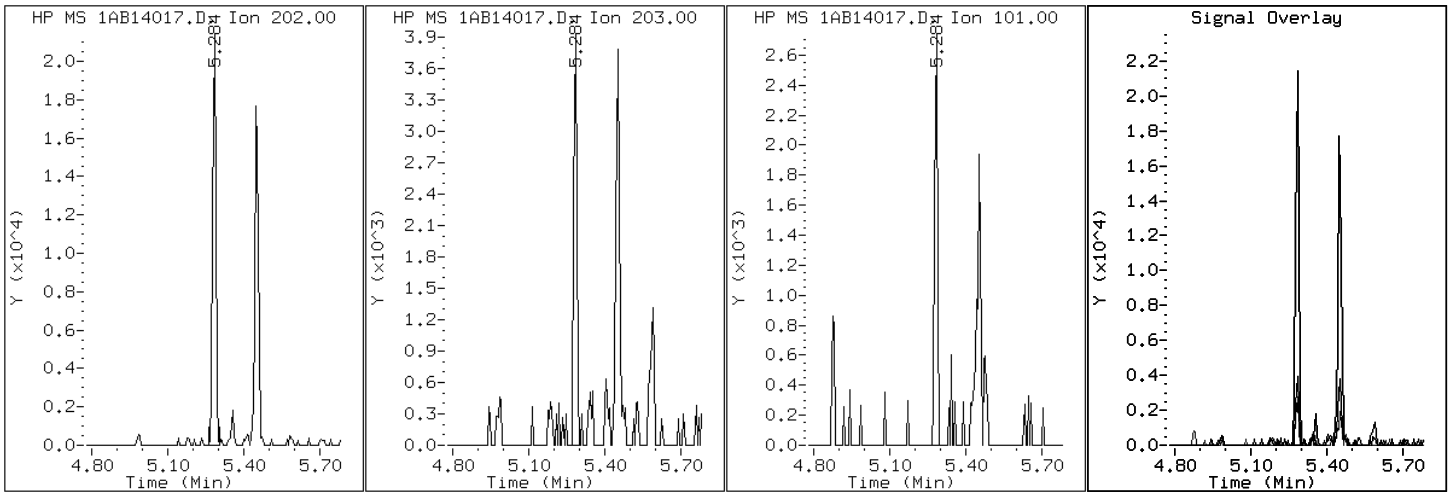
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

15 Fluoranthene



Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

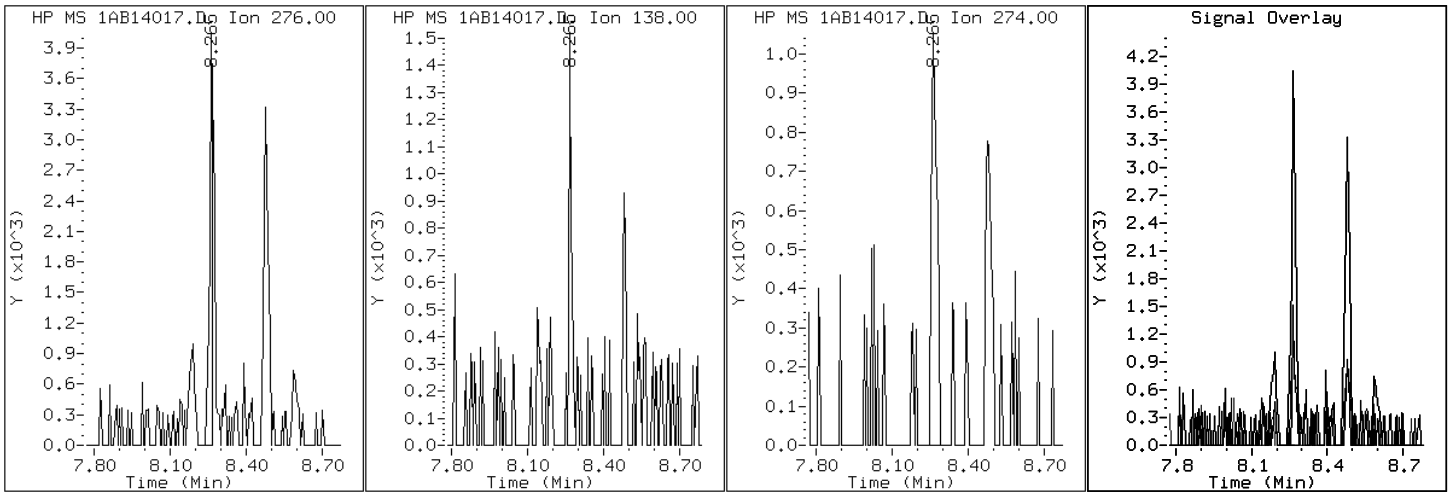
Client ID: CV0748Q-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a

Operator: SCC

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



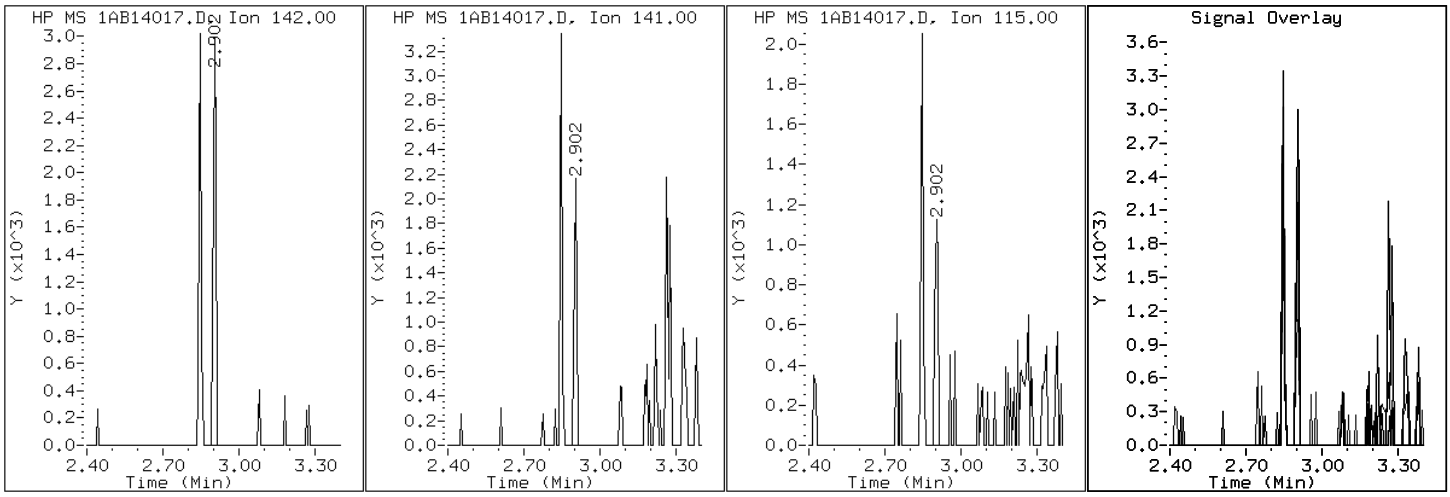
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

4 1-Methylnaphthalene



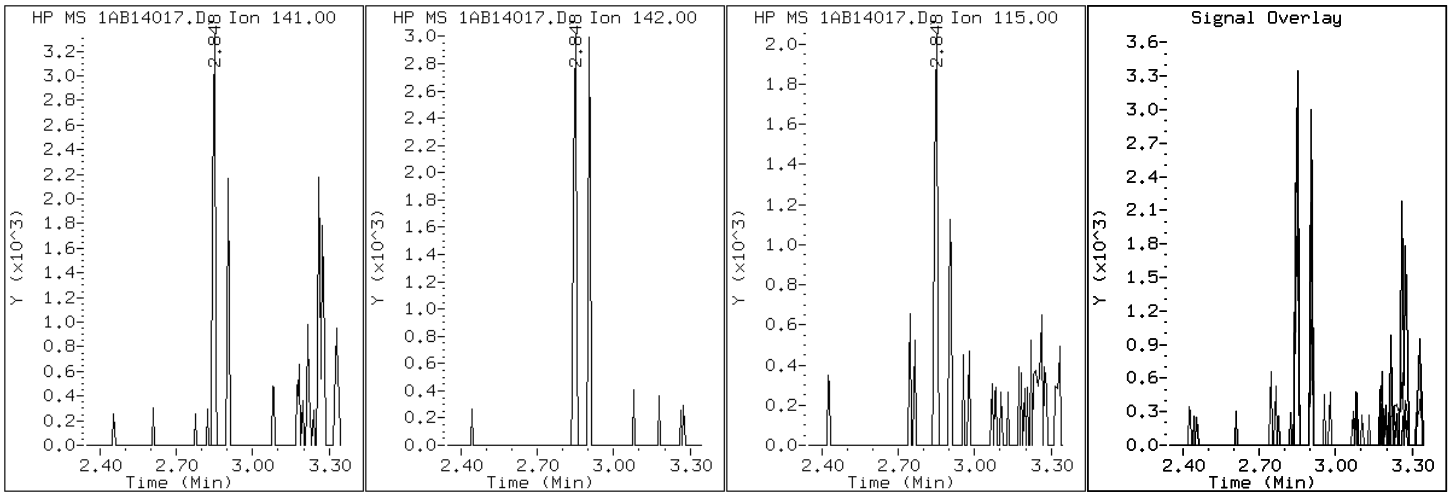
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

3 2-Methylnaphthalene



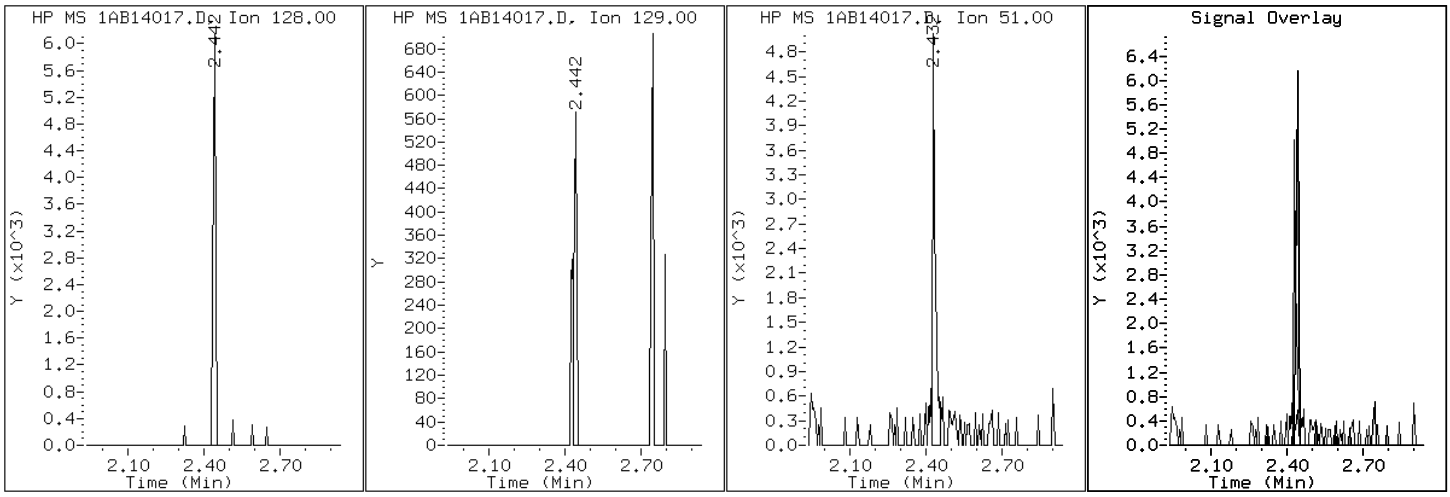
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

2 Naphthalene



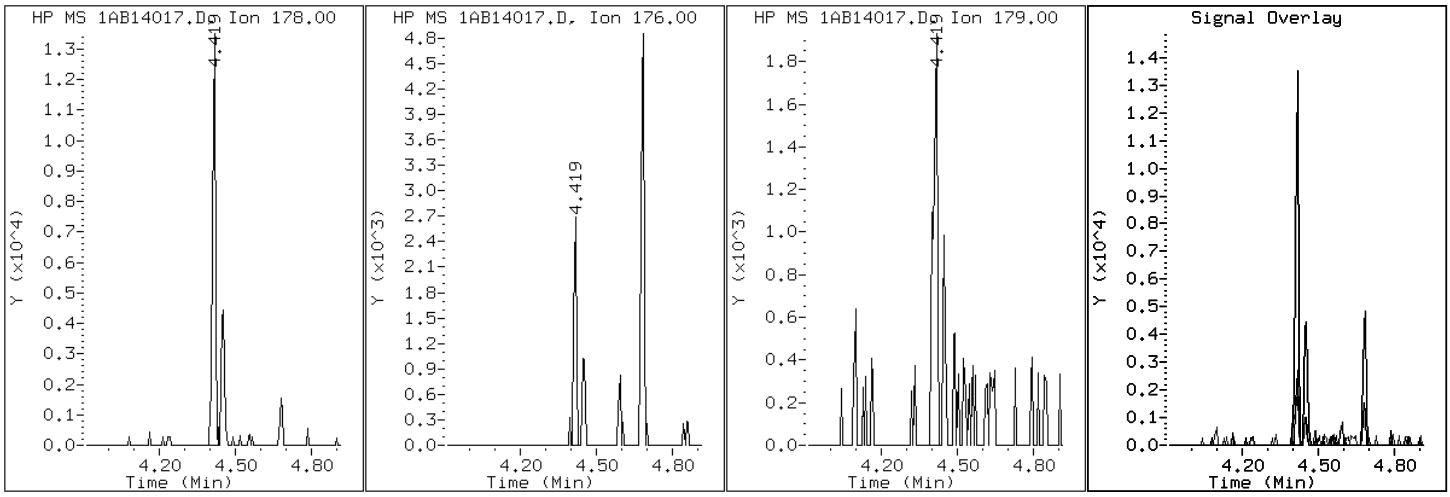
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

11 Phenanthrene



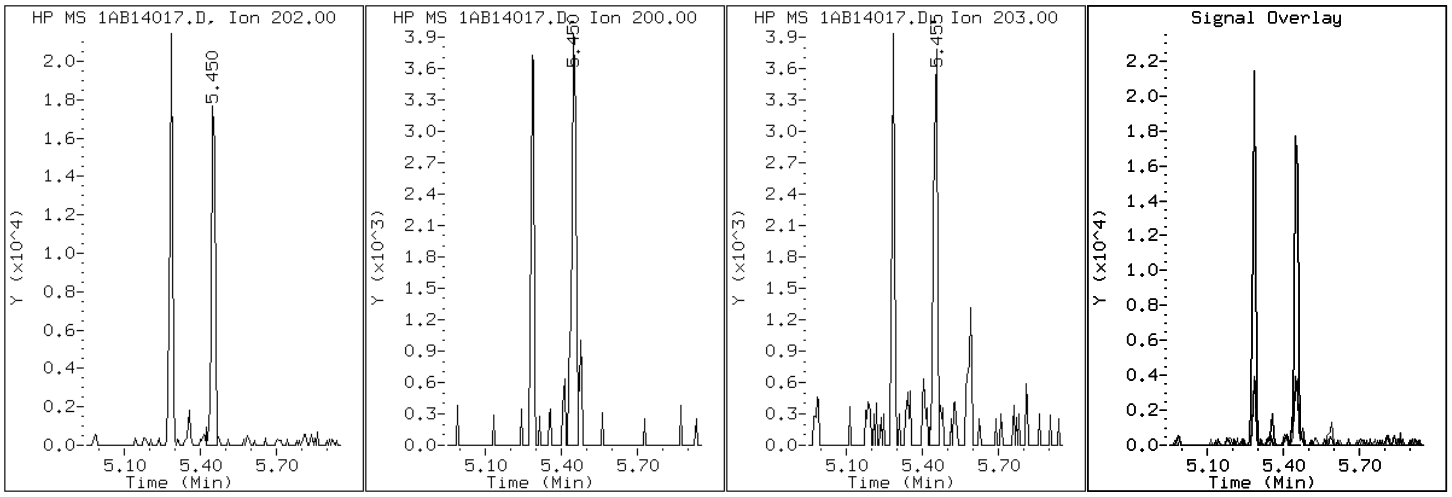
Data File: 1AB14017.D

Date: 14-FEB-2013 13:53

Client ID: CV0748Q-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-29-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14017.D
Inj. Date and Time: 14-FEB-2013 13:53
Instrument ID: BSMA5973.i
Client ID: CV0748Q-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

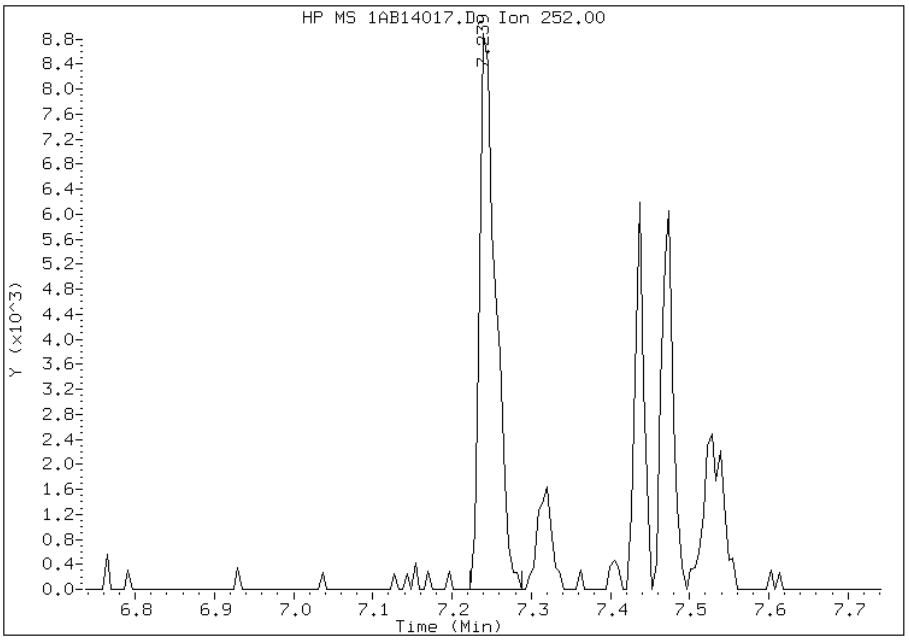
Processing Integration Results

RT: 7.24

Response: 12497

Amount: 1

Conc: 64



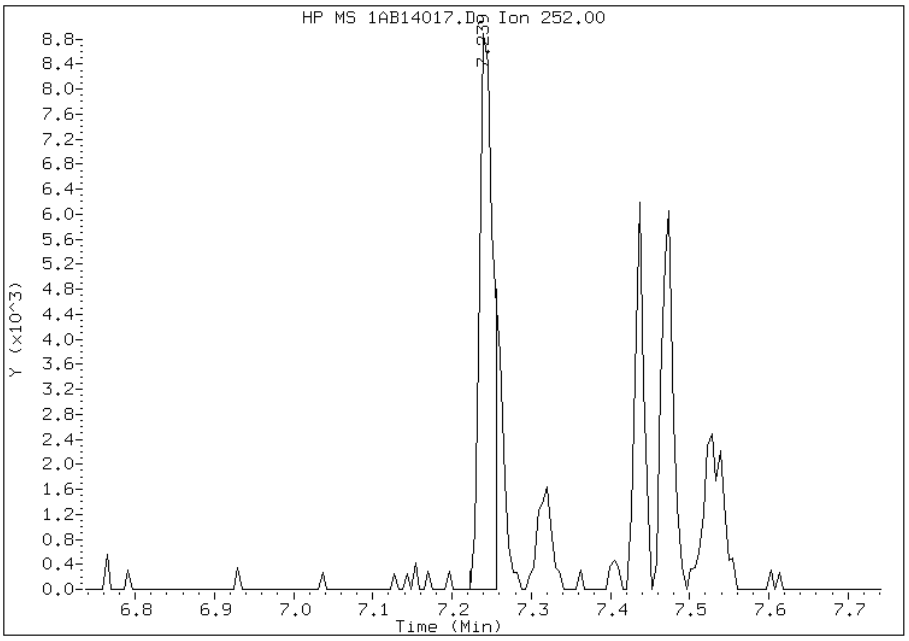
Manual Integration Results

RT: 7.24

Response: 10339

Amount: 1

Conc: 53



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14017.D
Inj. Date and Time: 14-FEB-2013 13:53
Instrument ID: BSMA5973.i
Client ID: CV0748Q-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

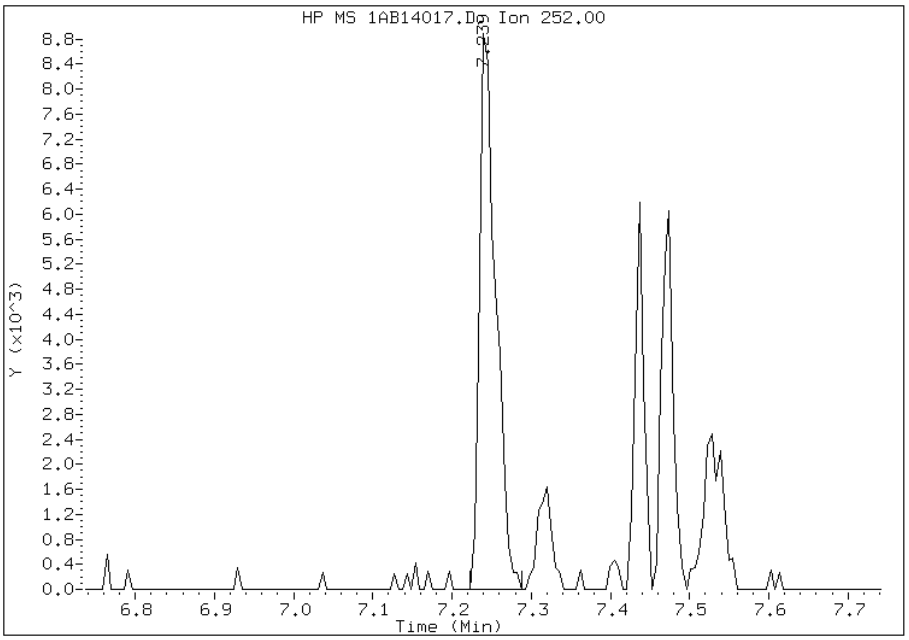
Processing Integration Results

RT: 7.24

Response: 12497

Amount: 1

Conc: 61



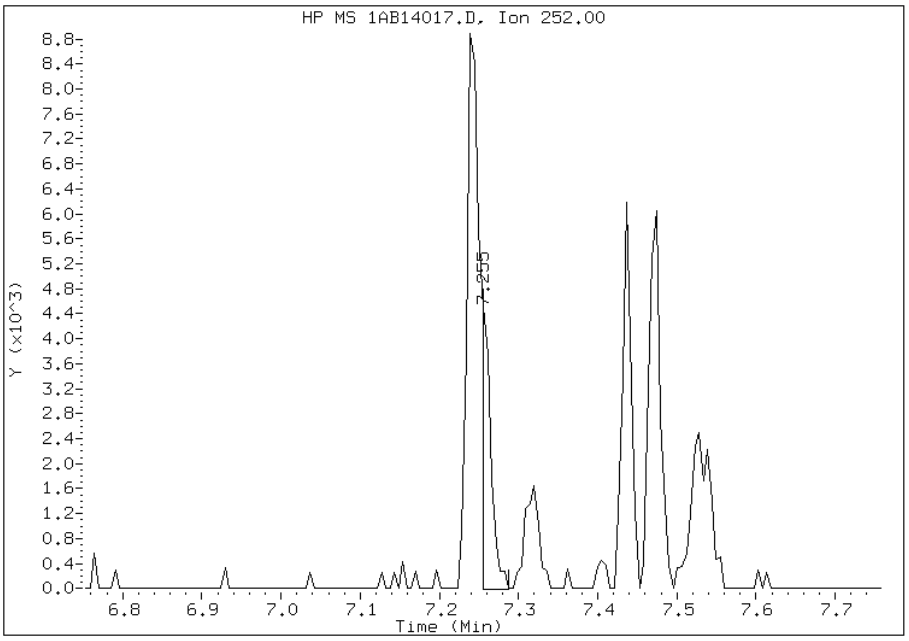
Manual Integration Results

RT: 7.26

Response: 3635

Amount: 0

Conc: 18



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14017.D
Inj. Date and Time: 14-FEB-2013 13:53
Instrument ID: BSMA5973.i
Client ID: CV0748Q-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

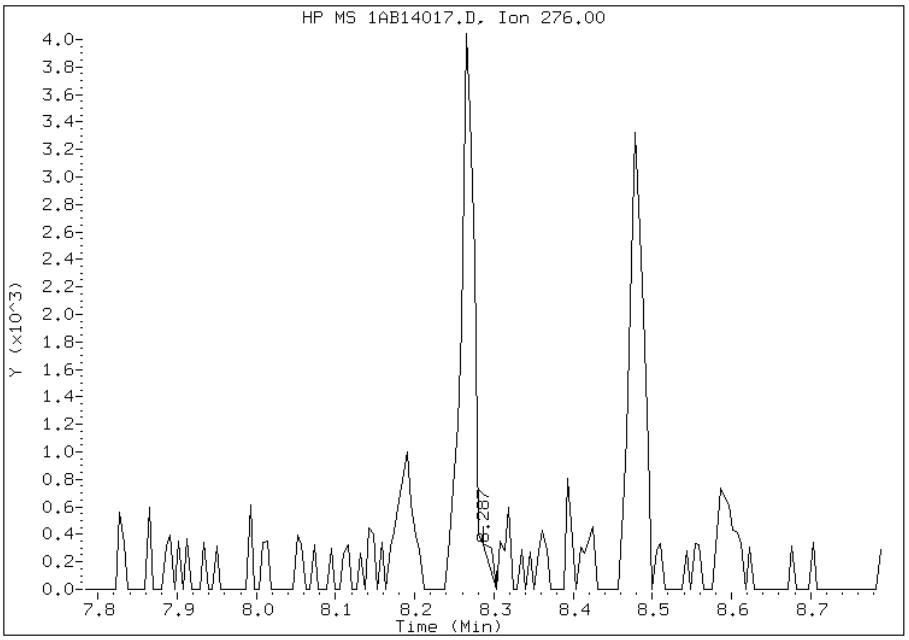
Processing Integration Results

RT: 8.29

Response: 91

Amount: 0

Conc: 1



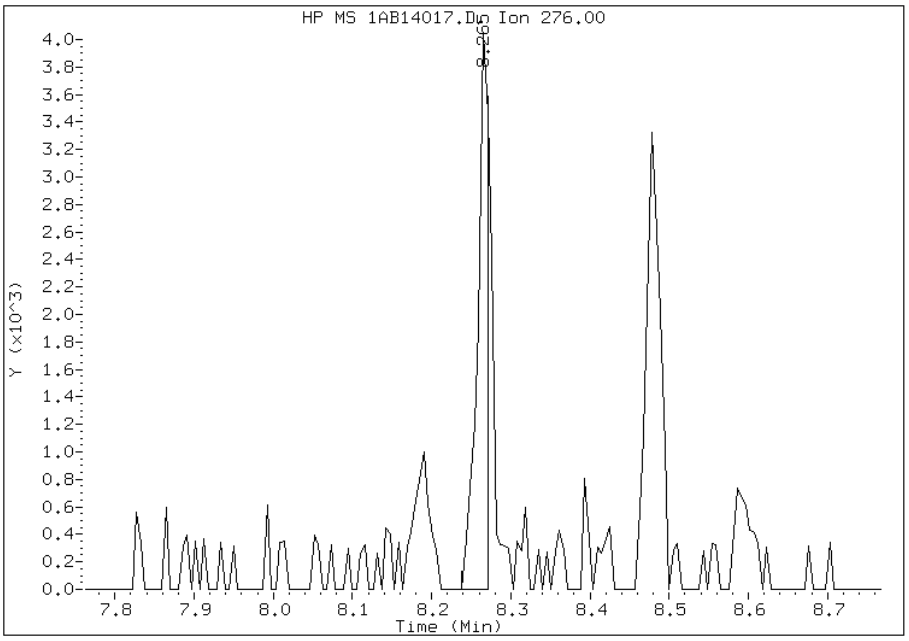
Manual Integration Results

RT: 8.27

Response: 3761

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748R-CS | Lab Sample ID: 680-87218-30

Matrix: Solid | Lab File ID: 1AB14018.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 14:59

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 14.99(g) | Date Analyzed: 02/14/2013 14:08

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.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	13	J	45	5.6
120-12-7	Anthracene	14		9.5	4.7
56-55-3	Benzo[a]anthracene	64		9.0	4.4
50-32-8	Benzo[a]pyrene	44		12	5.9
205-99-2	Benzo[b]fluoranthene	65		14	6.9
191-24-2	Benzo[g,h,i]perylene	41		23	5.0
207-08-9	Benzo[k]fluoranthene	35		9.0	4.1
218-01-9	Chrysene	53		10	5.1
53-70-3	Dibenz(a,h)anthracene	18	J	23	4.6
206-44-0	Fluoranthene	70		23	4.5
86-73-7	Fluorene	23	U	23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	35		23	8.0
90-12-0	1-Methylnaphthalene	14	J	45	5.0
91-57-6	2-Methylnaphthalene	16	J	45	8.0
91-20-3	Naphthalene	11	J	45	5.0
85-01-8	Phenanthrene	35		9.0	4.4
129-00-0	Pyrene	75		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14018.D
Lab Smp Id: 680-87218-A-30-A Client Smp ID: CV0748R-CS
Inj Date : 14-FEB-2013 14:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-30-a
Misc Info : 680-87218-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 18
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	11.444	% 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	2.432	2.430	(1.000)	882744	40.0000	
* 6 Acenaphthene-d10	164	3.458	3.461	(1.000)	519610	40.0000	
* 10 Phenanthrene-d10	188	4.403	4.402	(1.000)	701342	40.0000	
$ 14 o-Terphenyl	230	4.686	4.685	(1.064)	83925	8.23531	620.3812
* 18 Chrysene-d12	240	6.428	6.426	(1.000)	525060	40.0000	
* 23 Perylene-d12	264	7.528	7.527	(1.000)	535016	40.0000	
2 Naphthalene	128	2.443	2.441	(1.004)	3024	0.14114	10.6319(Q)
3 2-Methylnaphthalene	141	2.843	2.847	(1.169)	2366	0.20612	15.5277
4 1-Methylnaphthalene	142	2.902	2.900	(1.193)	2417	0.18601	14.0128
5 Acenaphthylene	152	3.372	3.371	(0.975)	3950	0.17216	12.9693
11 Phenanthrene	178	4.419	4.418	(1.004)	8832	0.46121	34.7438
12 Anthracene	178	4.451	4.455	(1.011)	3610	0.18490	13.9287
15 Fluoranthene	202	5.285	5.283	(1.200)	17643	0.92928	70.0043
16 Pyrene	202	5.450	5.454	(0.848)	18939	0.99876	75.2383

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.423	6.416	(0.999)	13283	0.84726	63.8257
19 Chrysene	228	6.439	6.448	(1.002)	10665	0.69791	52.5750
20 Benzo(b)fluoranthene	252	7.240	7.244	(0.962)	12872	0.86202	64.9373(M)
21 Benzo(k)fluoranthene	252	7.251	7.265	(0.963)	7187	0.46034	34.6783(QM)
22 Benzo(a)pyrene	252	7.470	7.479	(0.992)	8327	0.58723	44.2374
24 Indeno(1,2,3-cd)pyrene	276	8.260	8.275	(1.097)	5188	0.46334	34.9042(M)
25 Dibenzo(a,h)anthracene	278	8.271	8.291	(1.099)	2653	0.23701	17.8542(H)
26 Benzo(g,h,i)perylene	276	8.479	8.494	(1.126)	6340	0.54655	41.1726(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: 1AB14018.D

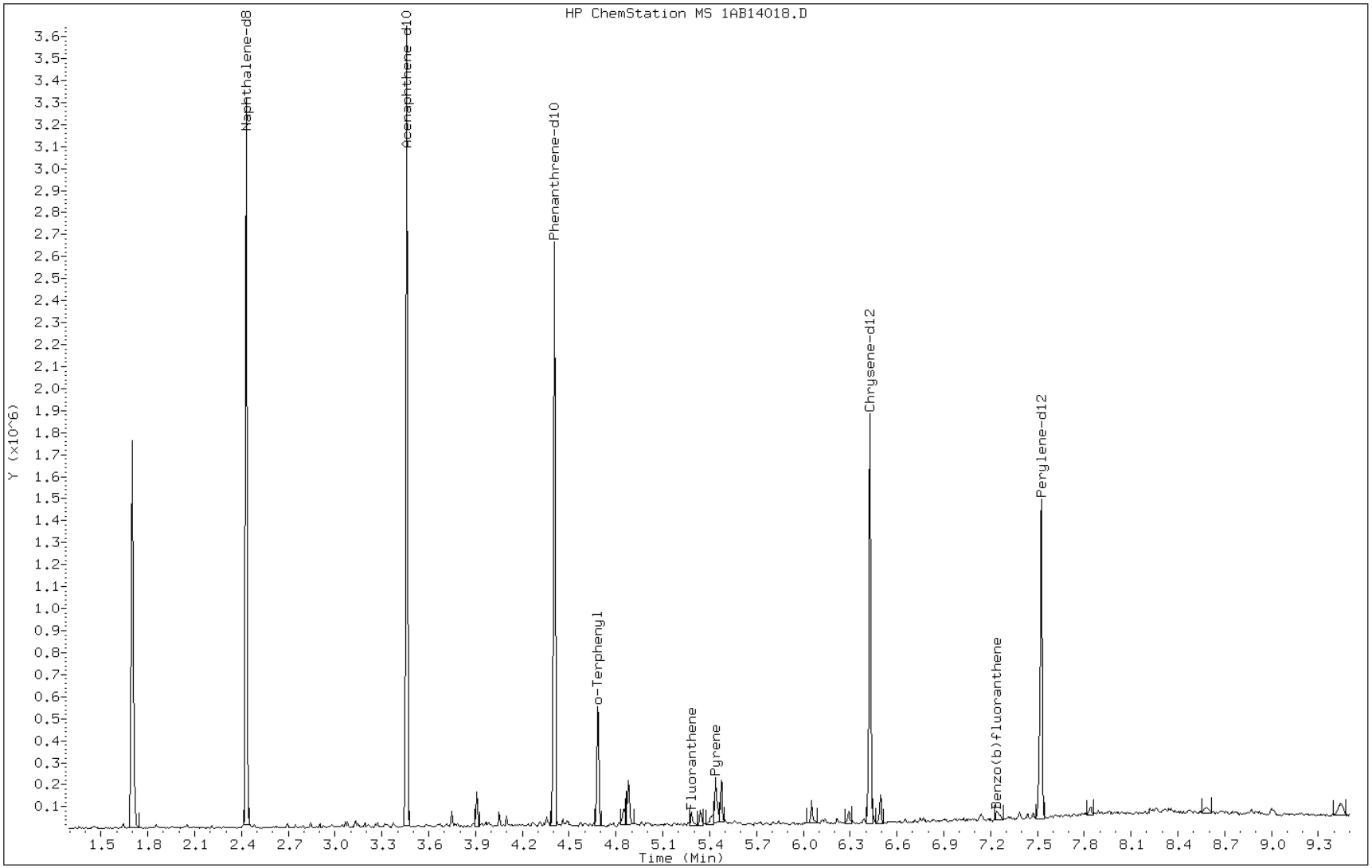
Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a

Operator: SCC



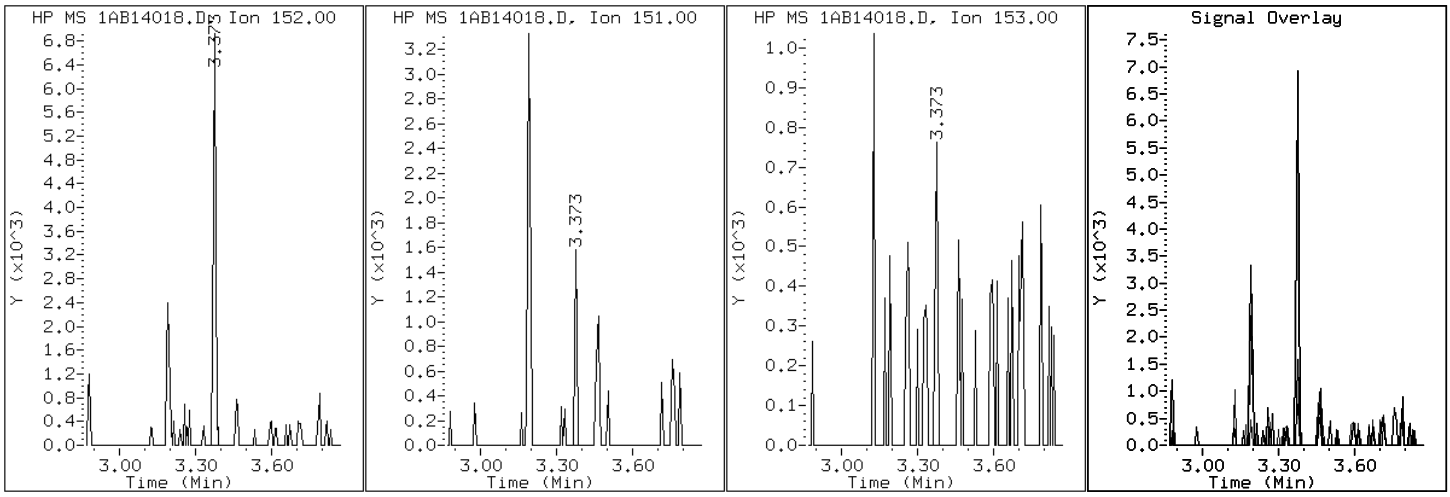
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

5 Acenaphthylene



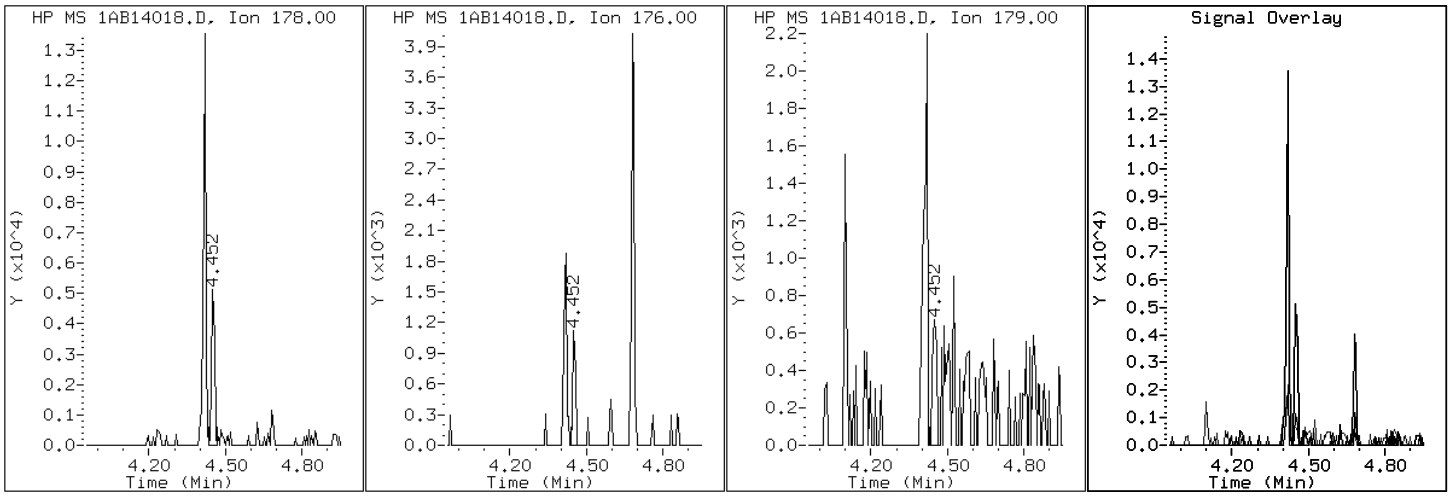
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

12 Anthracene



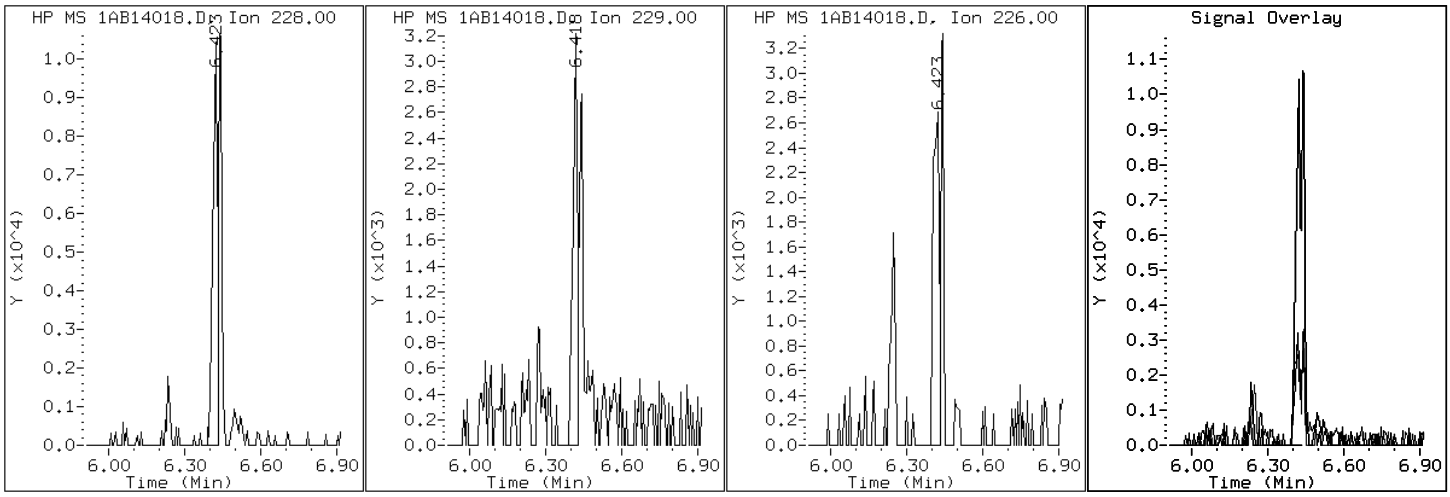
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

17 Benzo(a)anthracene



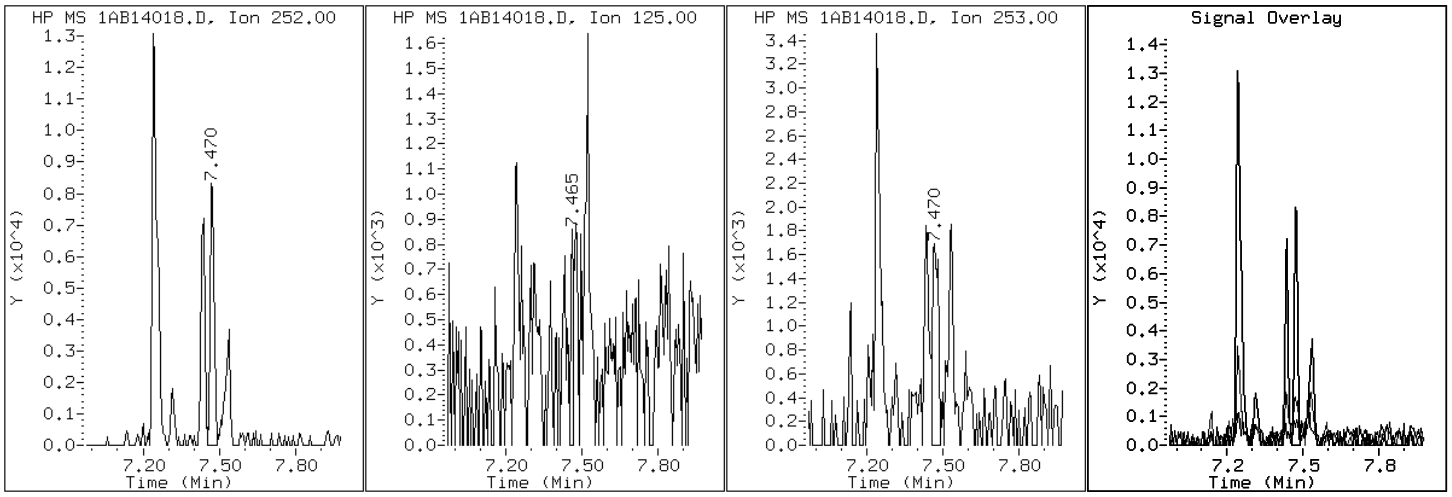
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

22 Benzo(a)pyrene



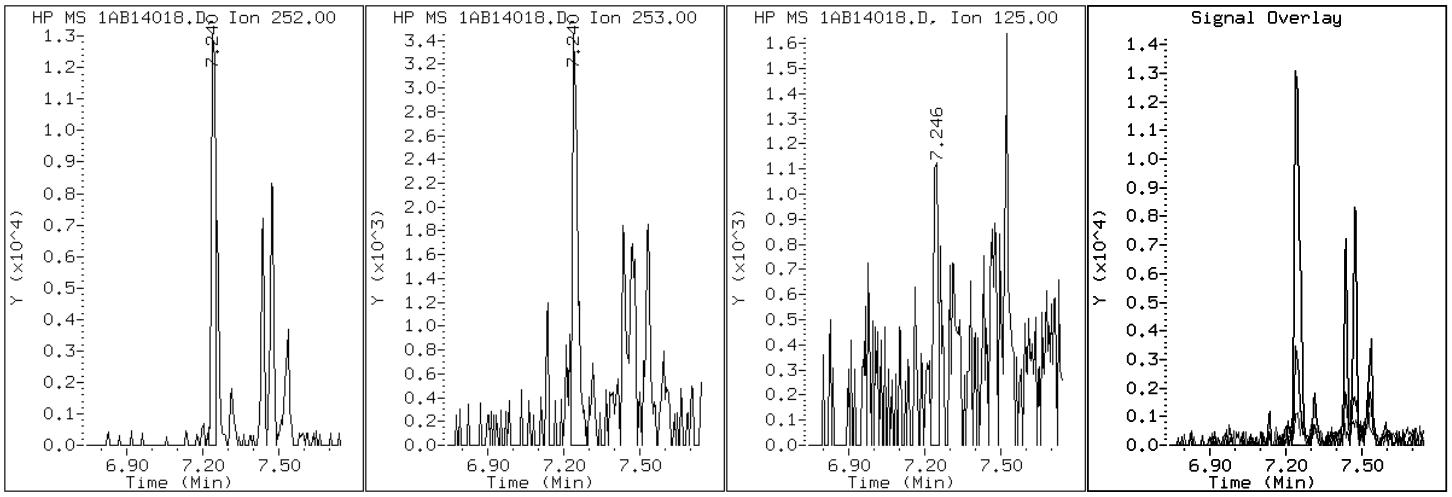
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

20 Benzo(b)fluoranthene



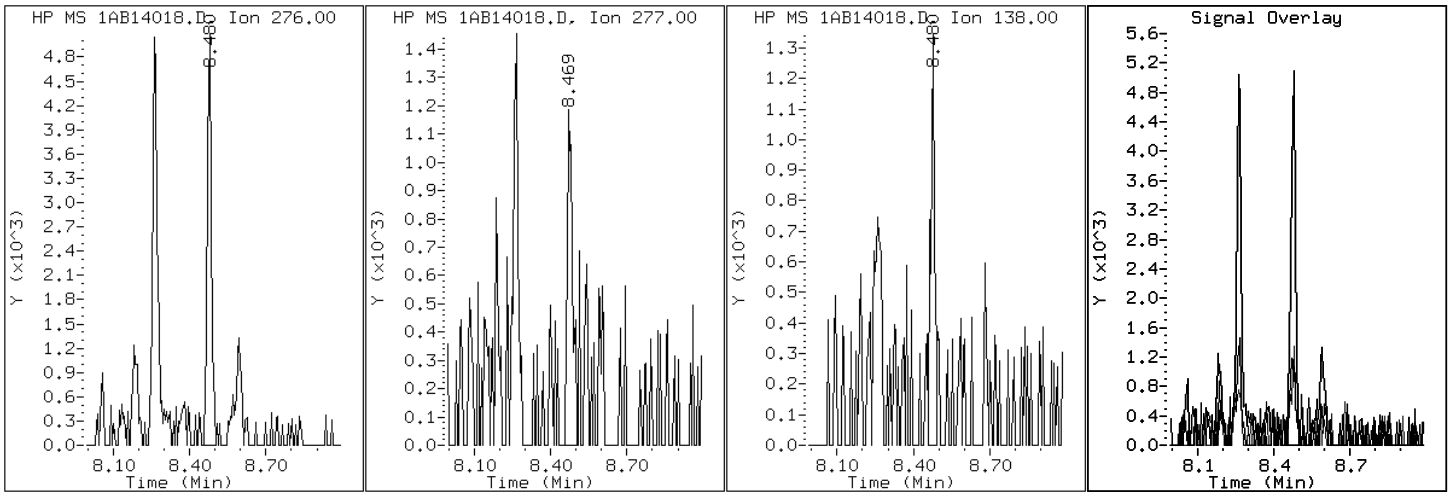
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

26 Benzo(g,h,i)perylene



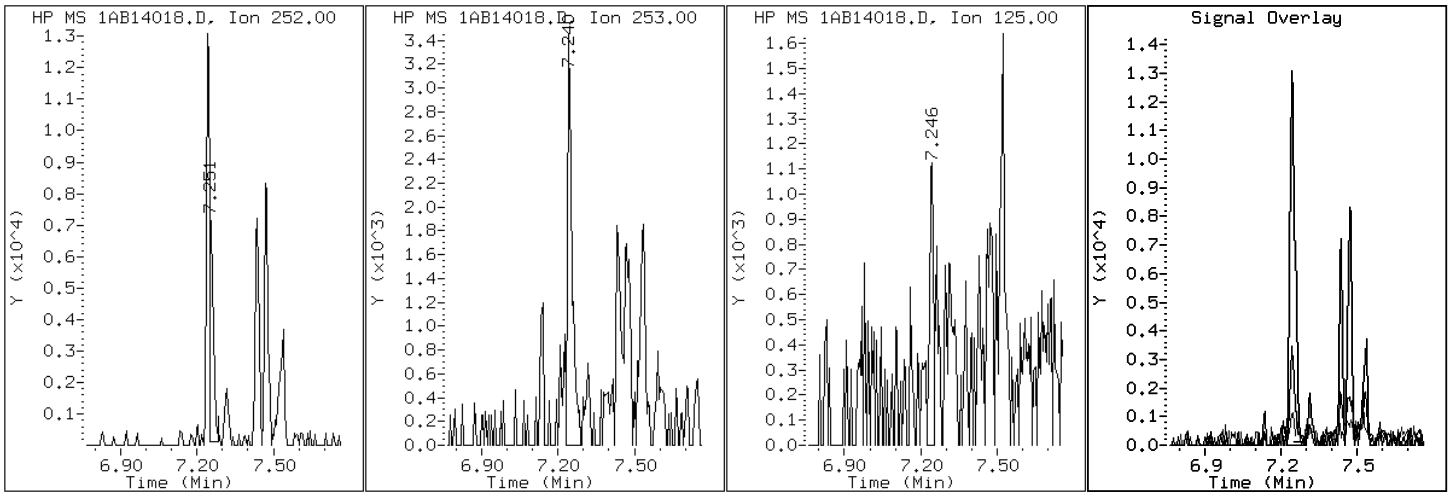
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

21 Benzo(k)fluoranthene



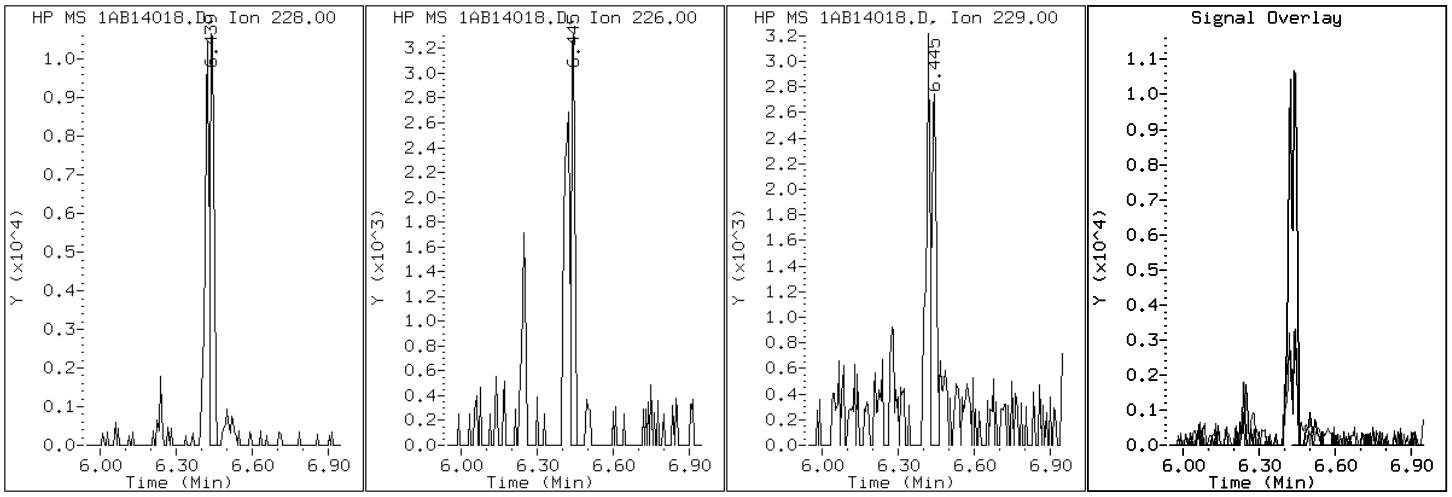
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

19 Chrysene



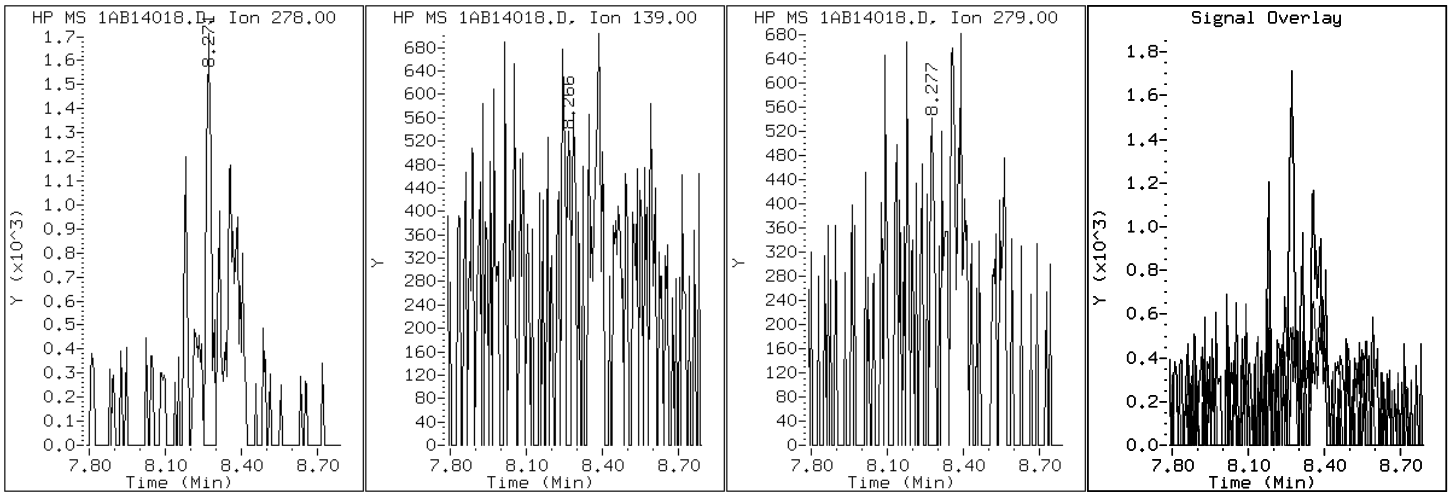
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

25 Dibenzo(a,h)anthracene



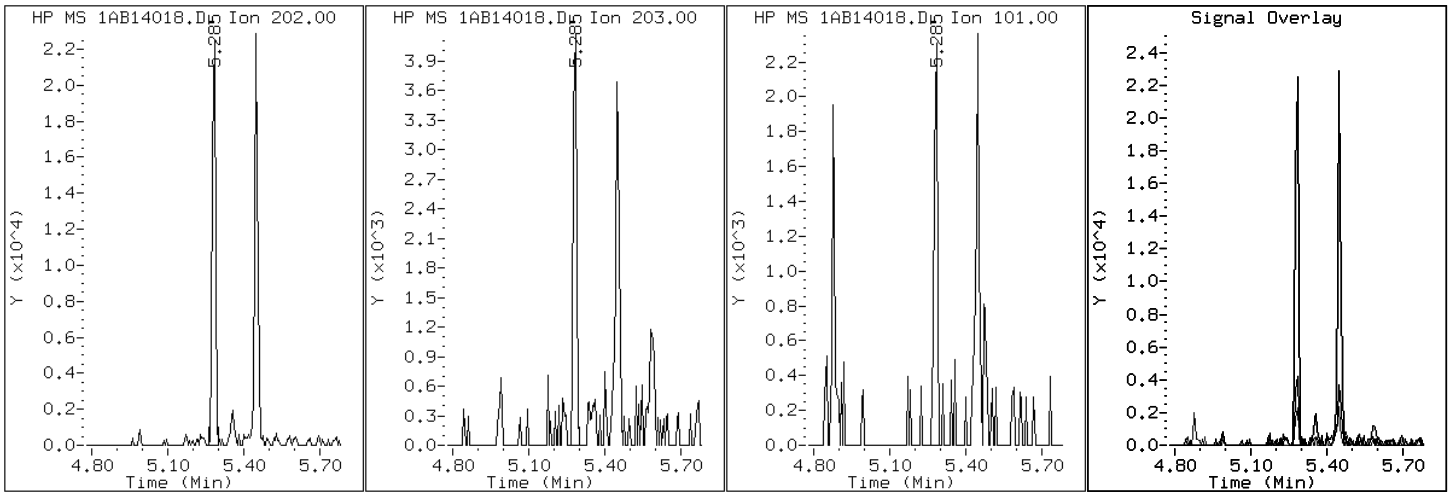
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

15 Fluoranthene



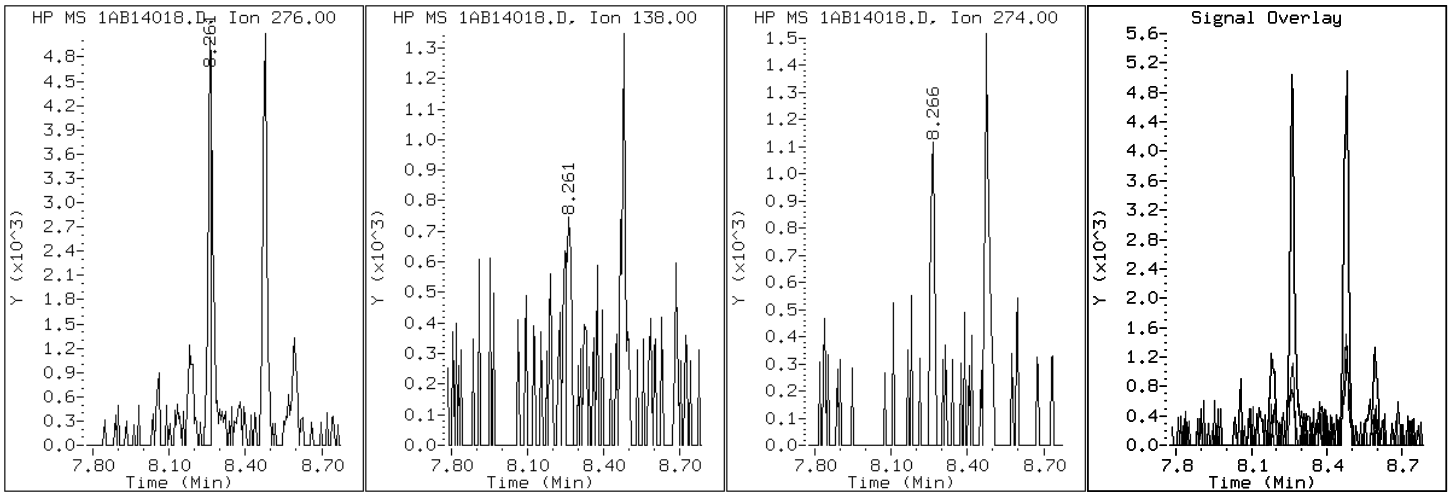
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

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



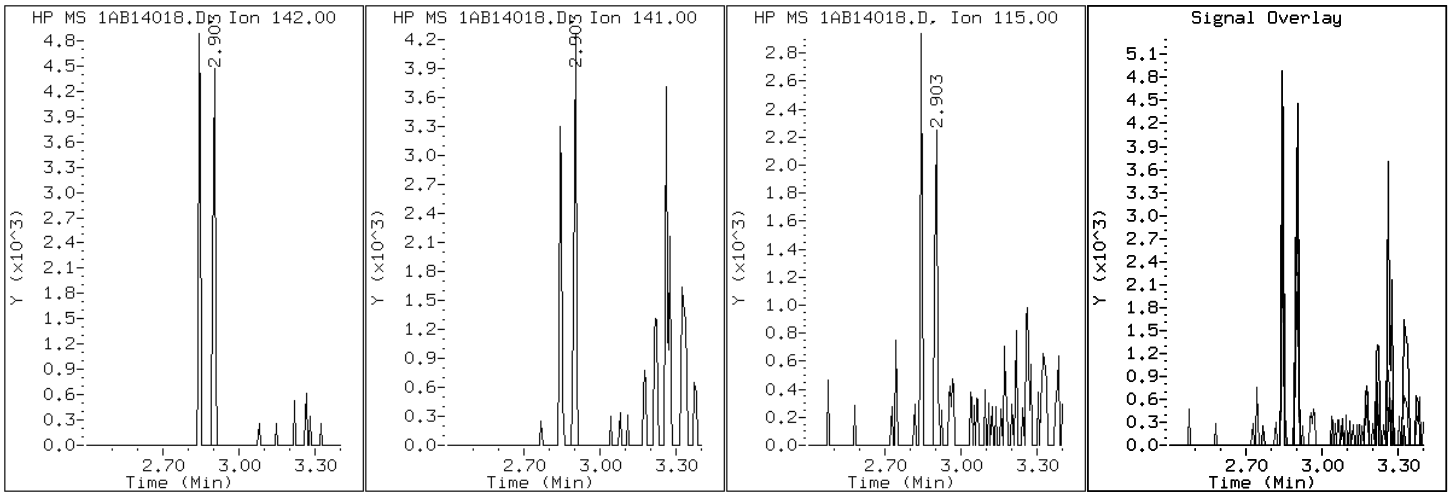
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

4 1-Methylnaphthalene



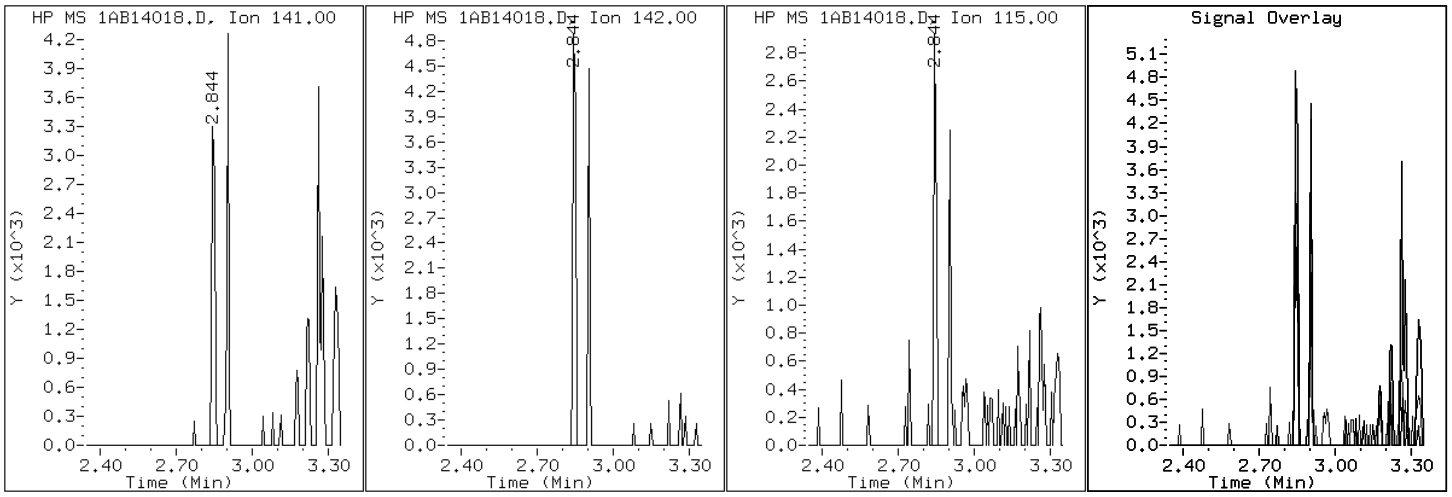
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

3 2-Methylnaphthalene



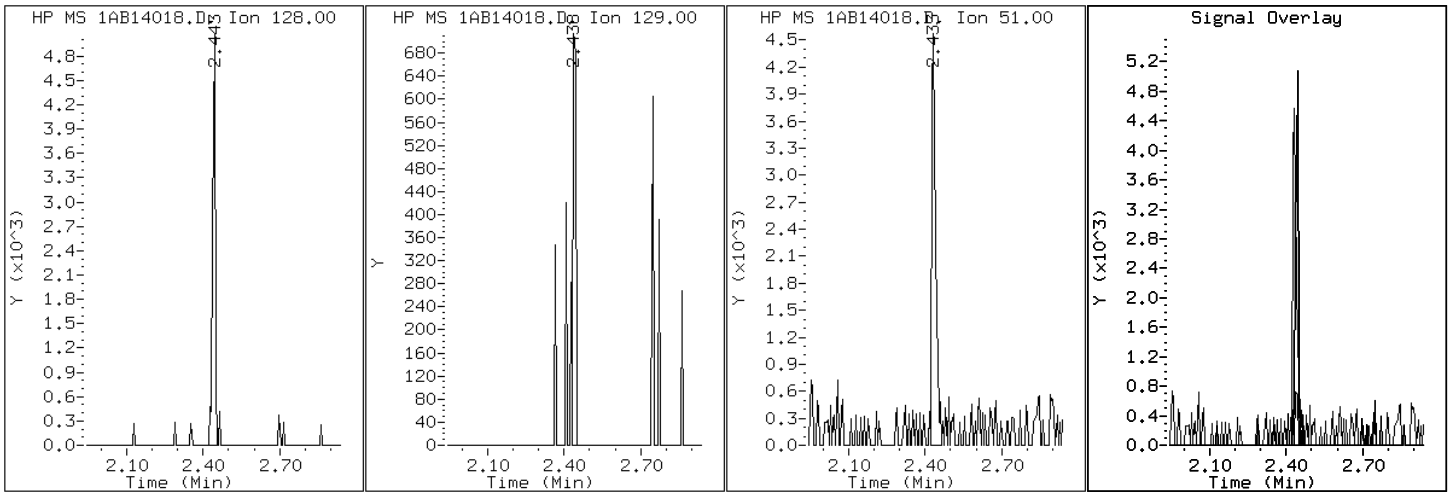
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

2 Naphthalene



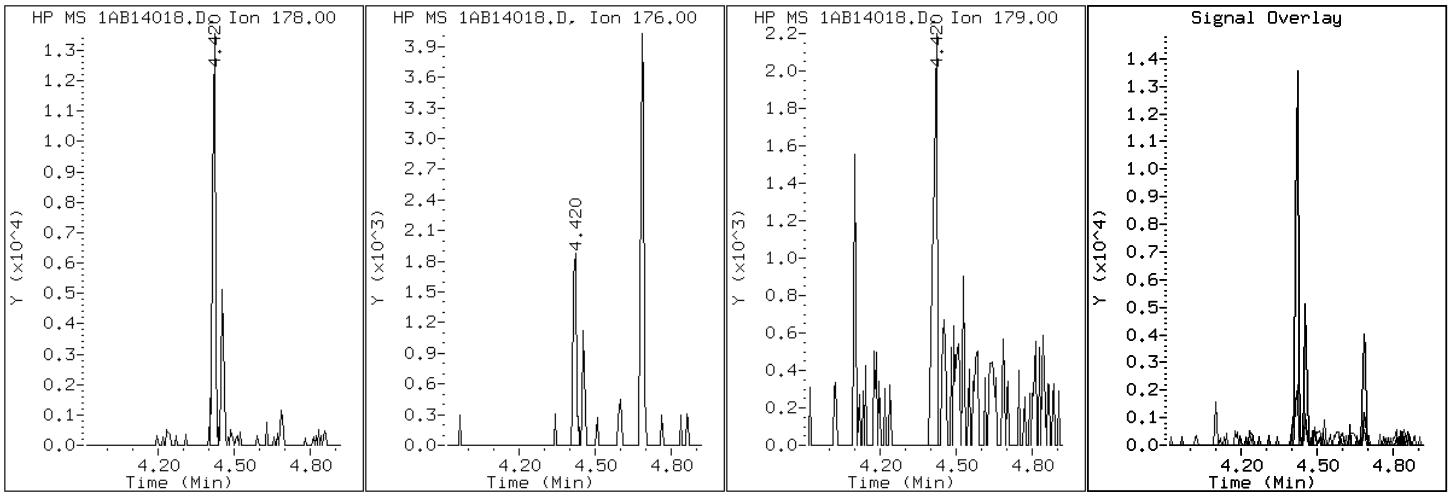
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

11 Phenanthrene



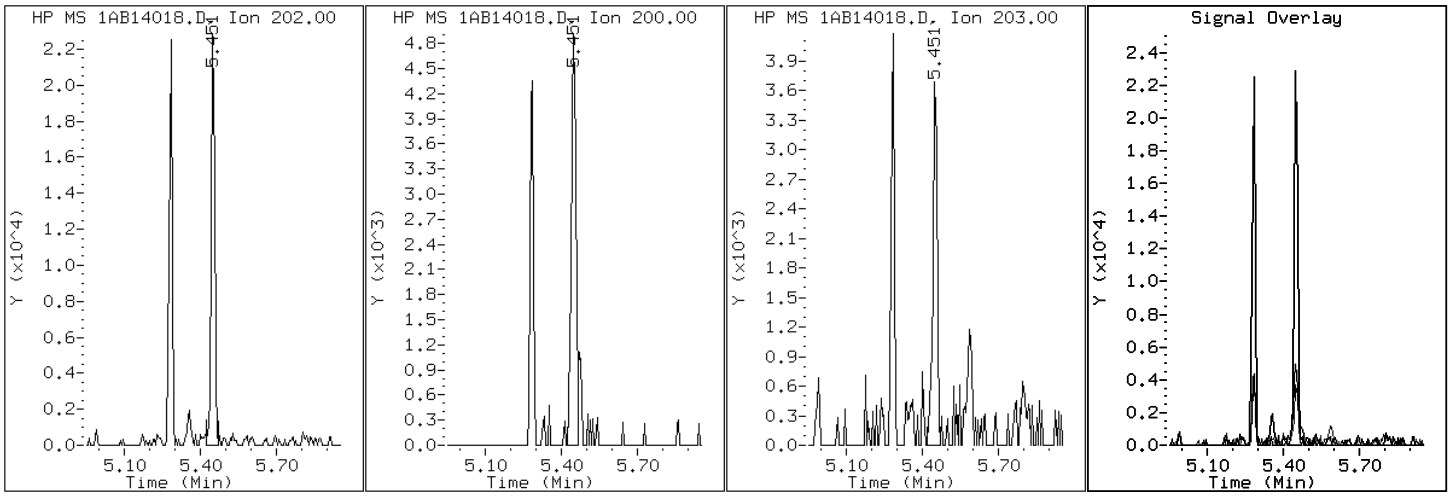
Data File: 1AB14018.D

Date: 14-FEB-2013 14:08

Client ID: CV0748R-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-30-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14018.D
Inj. Date and Time: 14-FEB-2013 14:08
Instrument ID: BSMA5973.i
Client ID: CV0748R-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

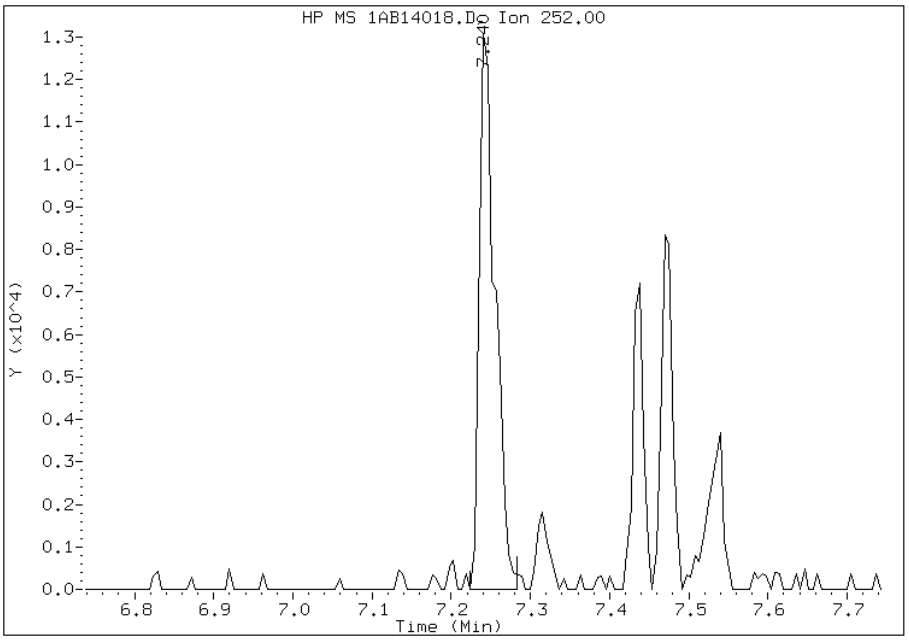
Processing Integration Results

RT: 7.24

Response: 17985

Amount: 1

Conc: 91



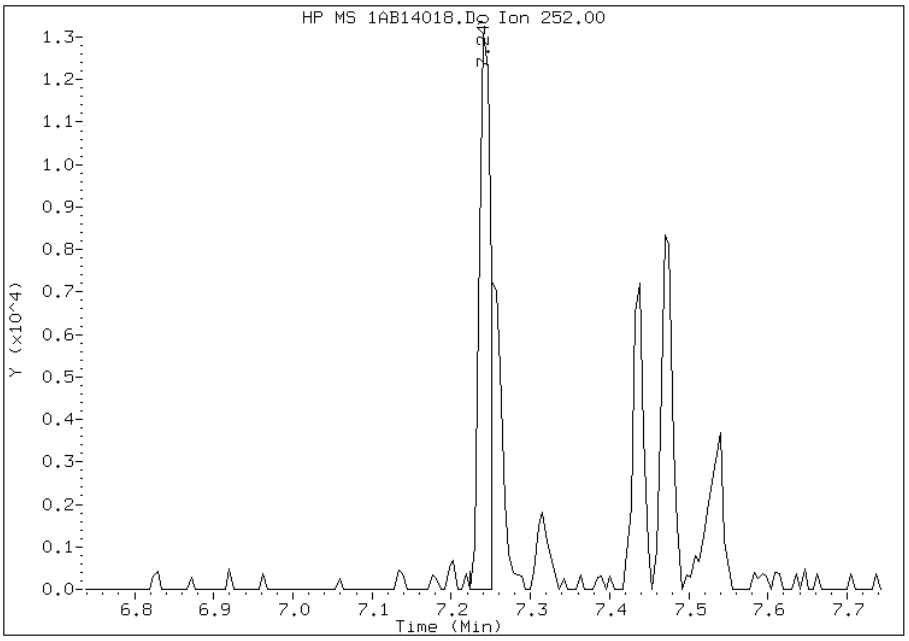
Manual Integration Results

RT: 7.24

Response: 12872

Amount: 1

Conc: 65



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14018.D
Inj. Date and Time: 14-FEB-2013 14:08
Instrument ID: BSMA5973.i
Client ID: CV0748R-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

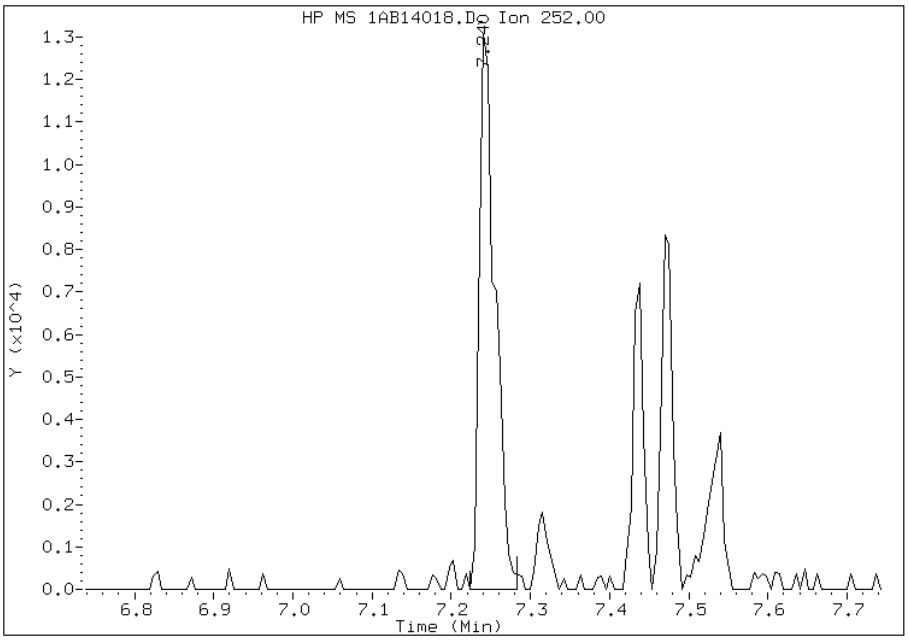
Processing Integration Results

RT: 7.24

Response: 17985

Amount: 1

Conc: 87



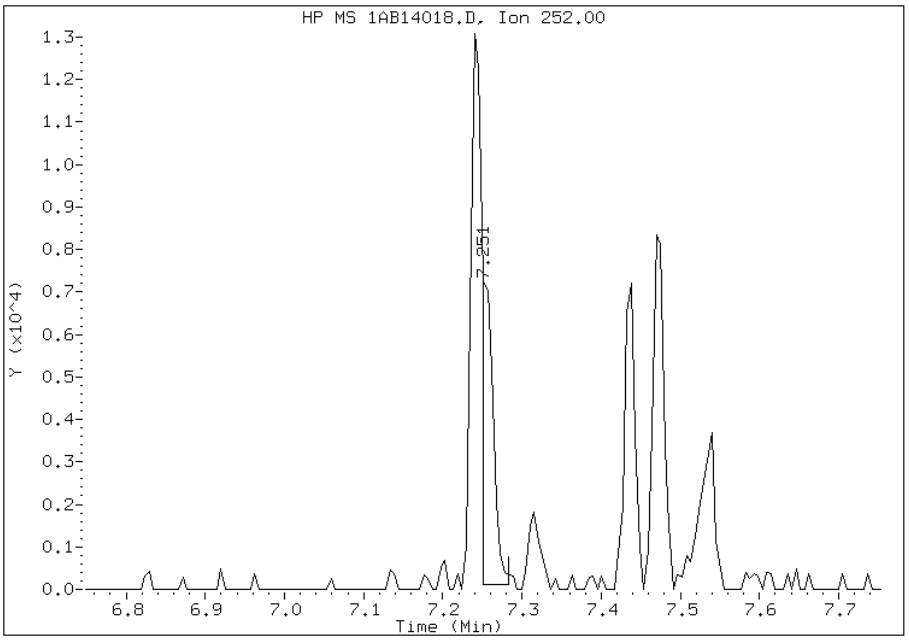
Manual Integration Results

RT: 7.25

Response: 7187

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14018.D
Inj. Date and Time: 14-FEB-2013 14:08
Instrument ID: BSMA5973.i
Client ID: CV0748R-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

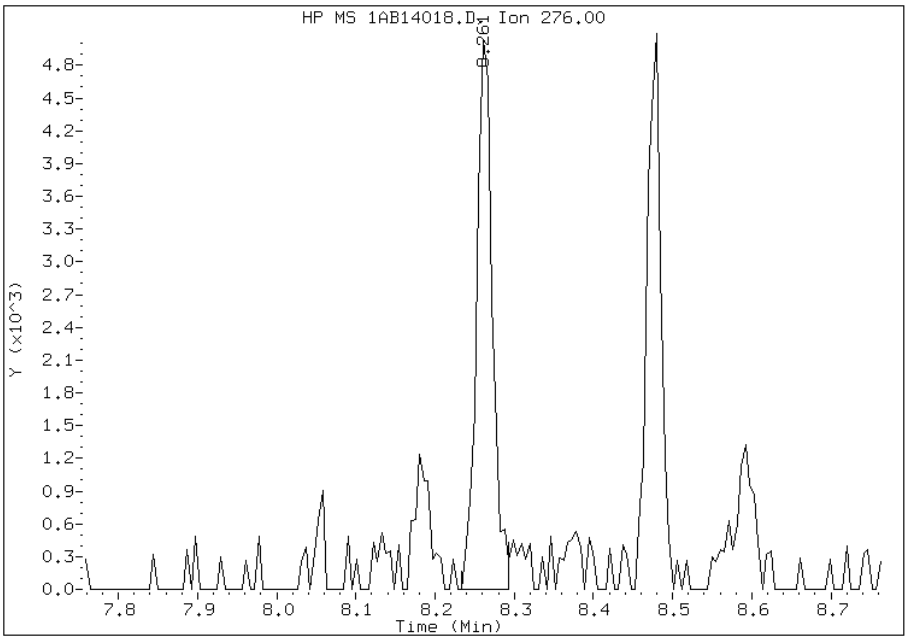
Processing Integration Results

RT: 8.26

Response: 6935

Amount: 1

Conc: 47



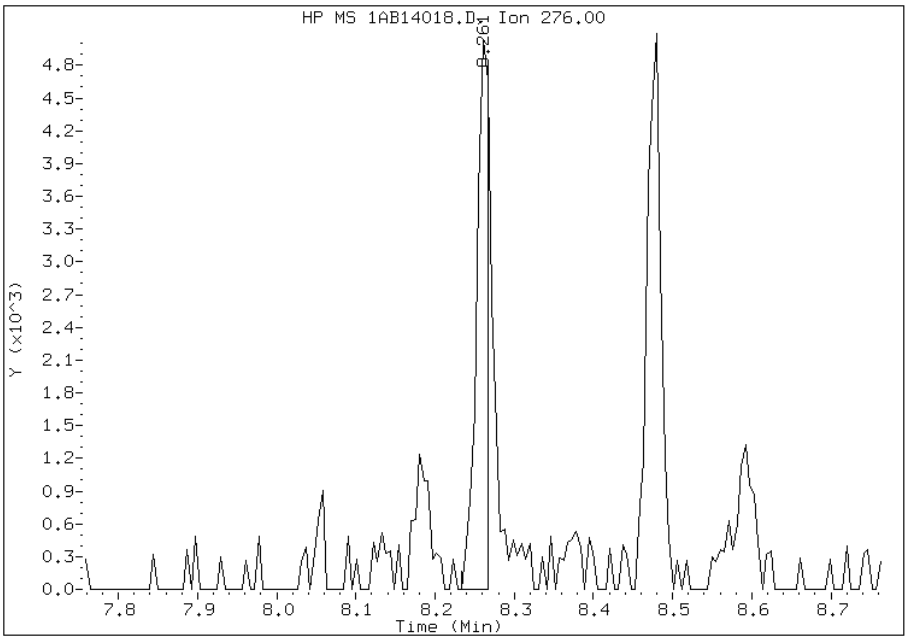
Manual Integration Results

RT: 8.26

Response: 5188

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748S-CS | Lab Sample ID: 680-87218-31

Matrix: Solid | Lab File ID: 1AB14019.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 15:07

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 14.95(g) | Date Analyzed: 02/14/2013 14:23

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

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

% Moisture: 8.3 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	89		44	5.5
120-12-7	Anthracene	90		9.2	4.6
56-55-3	Benzo[a]anthracene	400		8.8	4.3
50-32-8	Benzo[a]pyrene	320		11	5.7
205-99-2	Benzo[b]fluoranthene	500		13	6.7
191-24-2	Benzo[g,h,i]perylene	320		22	4.8
207-08-9	Benzo[k]fluoranthene	160		8.8	3.9
218-01-9	Chrysene	400		9.9	4.9
53-70-3	Dibenz(a,h)anthracene	93		22	4.5
206-44-0	Fluoranthene	520		22	4.4
86-73-7	Fluorene	14	J	22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	280		22	7.8
90-12-0	1-Methylnaphthalene	69		44	4.8
91-57-6	2-Methylnaphthalene	83		44	7.8
91-20-3	Naphthalene	62		44	4.8
85-01-8	Phenanthrene	280		8.8	4.3
129-00-0	Pyrene	490		22	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14019.D
Lab Smp Id: 680-87218-A-31-A Client Smp ID: CV0748S-CS
Inj Date : 14-FEB-2013 14:23
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-31-a
Misc Info : 680-87218-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 19
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	14.950	Weight Extracted
M	8.333	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.433	2.430	(1.000)	860246	40.0000	
* 6 Acenaphthene-d10	164	3.458	3.461	(1.000)	500678	40.0000	
* 10 Phenanthrene-d10	188	4.404	4.402	(1.000)	684842	40.0000	
$ 14 o-Terphenyl	230	4.682	4.685	(1.063)	61260	6.15609	449.2131
* 18 Chrysene-d12	240	6.429	6.426	(1.000)	503262	40.0000	
* 23 Perylene-d12	264	7.529	7.527	(1.000)	600121	40.0000	
2 Naphthalene	128	2.443	2.441	(1.004)	17655	0.84554	61.6993
3 2-Methylnaphthalene	141	2.844	2.847	(1.169)	12672	1.13285	82.6646
4 1-Methylnaphthalene	142	2.903	2.900	(1.193)	11958	0.94437	68.9110
5 Acenaphthylene	152	3.373	3.371	(0.975)	27085	1.22515	89.3997
9 Fluorene	166	3.790	3.787	(1.096)	2867	0.19055	13.9047
11 Phenanthrene	178	4.420	4.418	(1.004)	71035	3.79884	277.2035
12 Anthracene	178	4.452	4.455	(1.011)	23593	1.23751	90.3019
13 Carbazole	167	4.607	4.610	(1.046)	7140	0.43691	31.8812

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.285	5.283	(1.200)	132273	7.13484	520.6331
16 Pyrene	202	5.456	5.454	(0.849)	122493	6.73953	491.7871
17 Benzo(a)anthracene	228	6.418	6.416	(0.998)	81512	5.42447	395.8263
19 Chrysene	228	6.445	6.448	(1.002)	79535	5.43017	396.2421
20 Benzo(b)fluoranthene	252	7.251	7.244	(0.963)	115624	6.90312	503.7244(M)
21 Benzo(k)fluoranthene	252	7.262	7.265	(0.965)	38718	2.21092	161.3318(QM)
22 Benzo(a)pyrene	252	7.481	7.479	(0.994)	70157	4.41084	321.8612
24 Indeno(1,2,3-cd)pyrene	276	8.277	8.275	(1.099)	47725	3.79991	277.2813(M)
25 Dibenzo(a,h)anthracene	278	8.288	8.291	(1.101)	16033	1.27693	93.1784
26 Benzo(g,h,i)perylene	276	8.491	8.494	(1.128)	57875	4.44795	324.5689

QC Flag Legend

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

Data File: 1AB14019.D

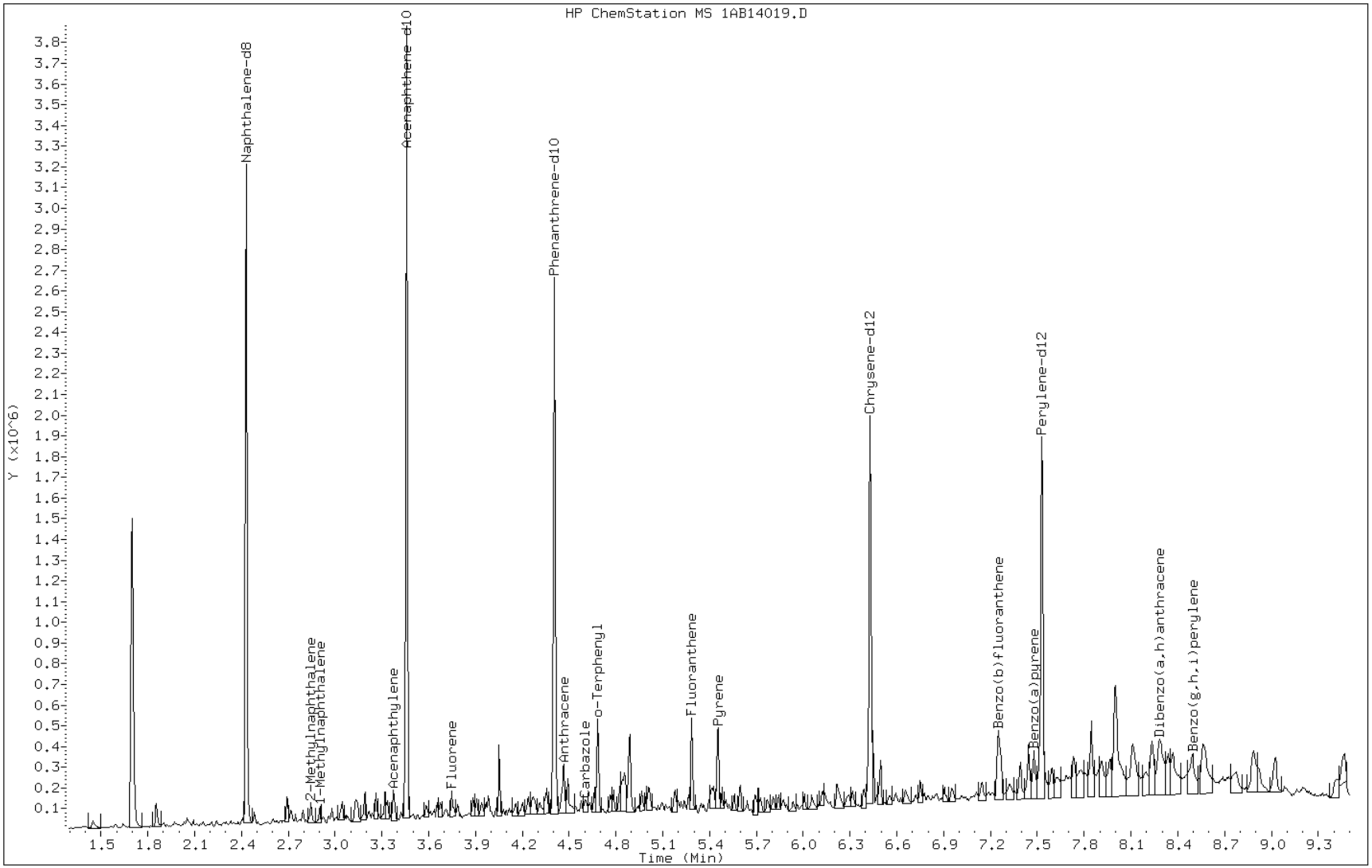
Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a

Operator: SCC



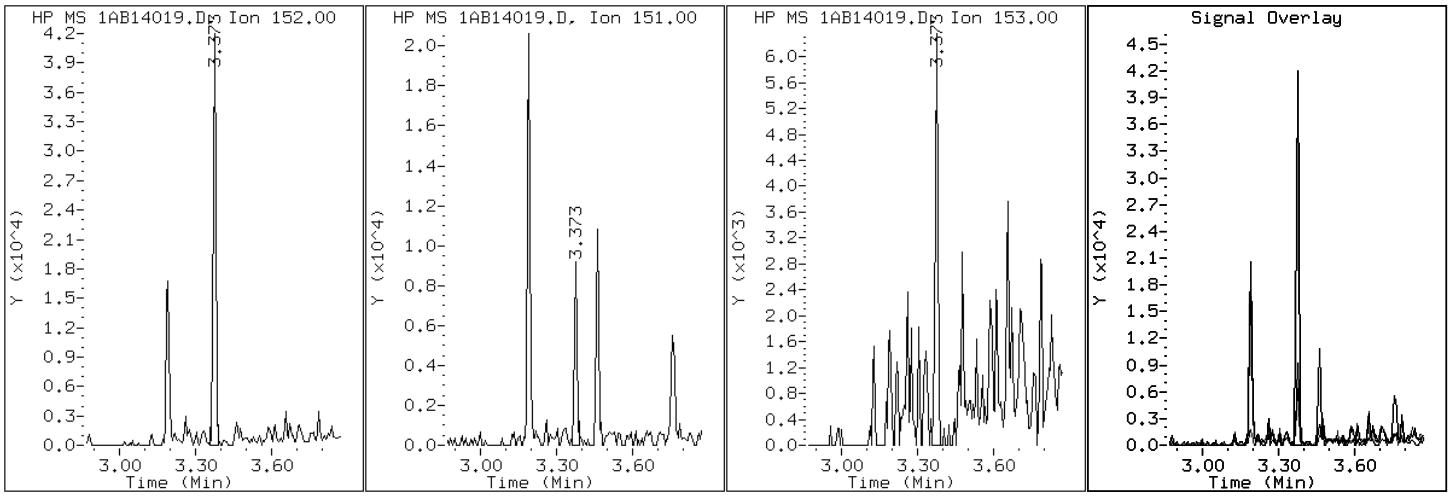
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

5 Acenaphthylene



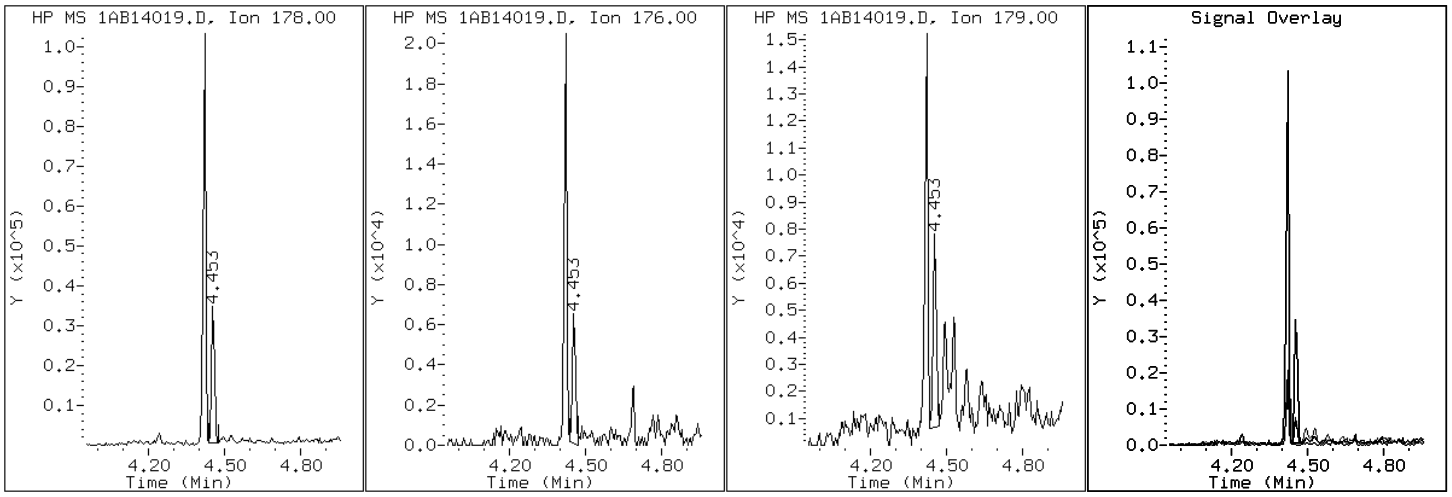
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

12 Anthracene



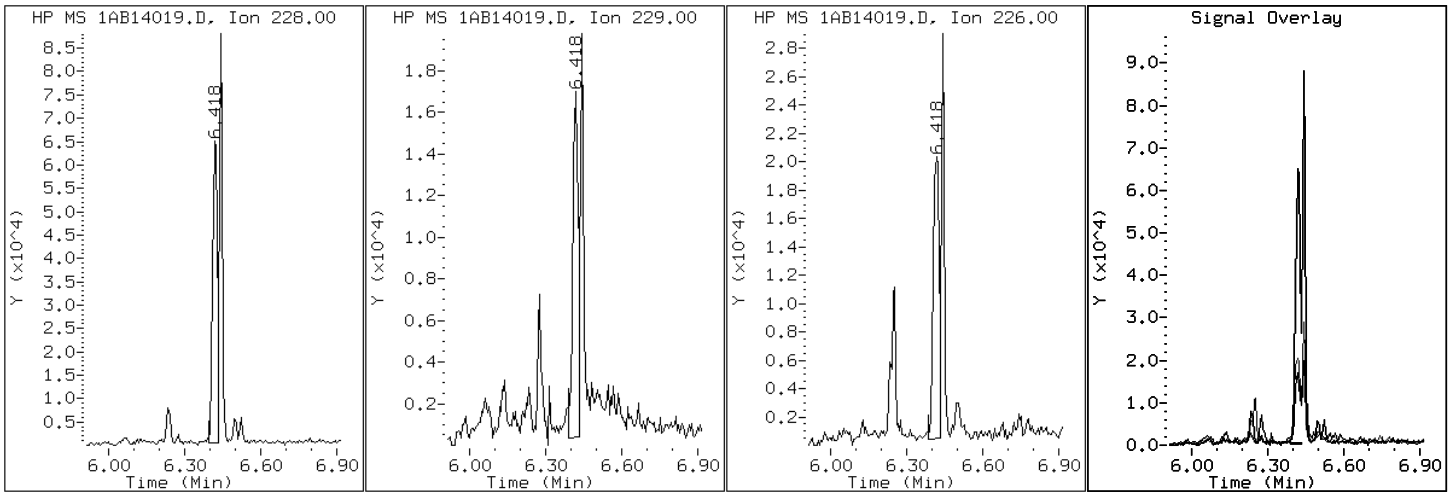
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

17 Benzo(a)anthracene



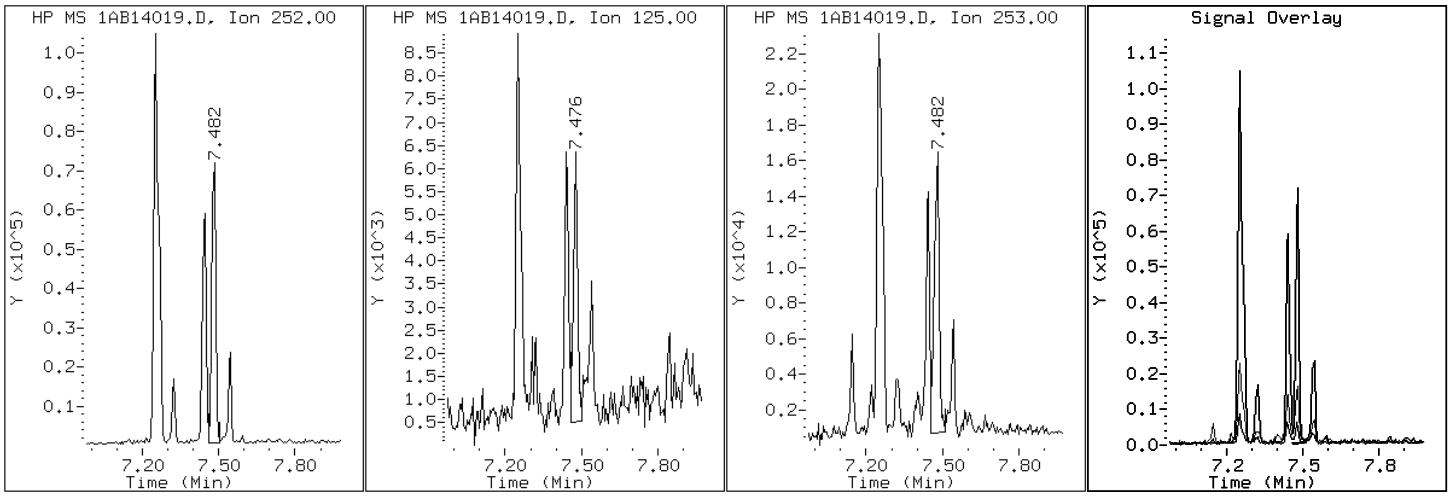
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

22 Benzo(a)pyrene



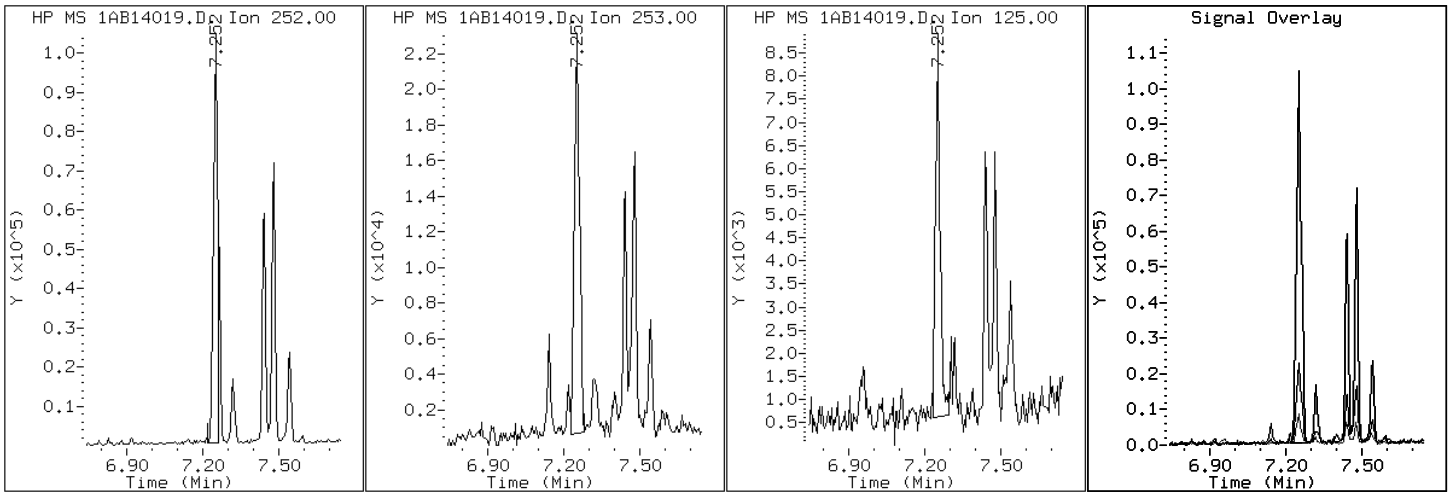
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

20 Benzo(b)fluoranthene



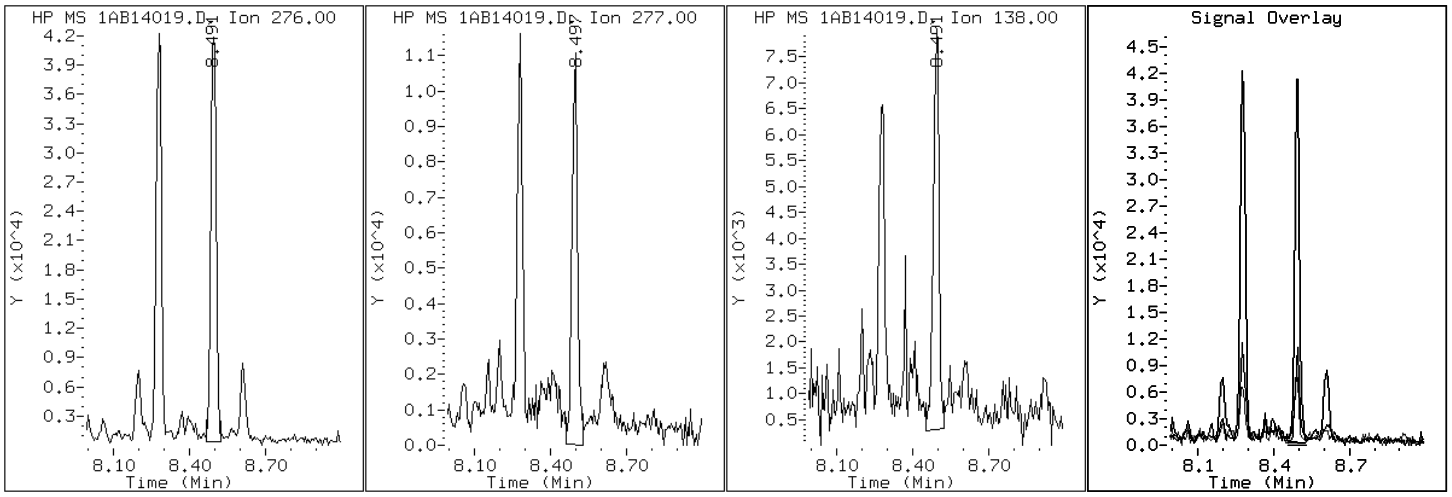
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

26 Benzo(g,h,i)perylene



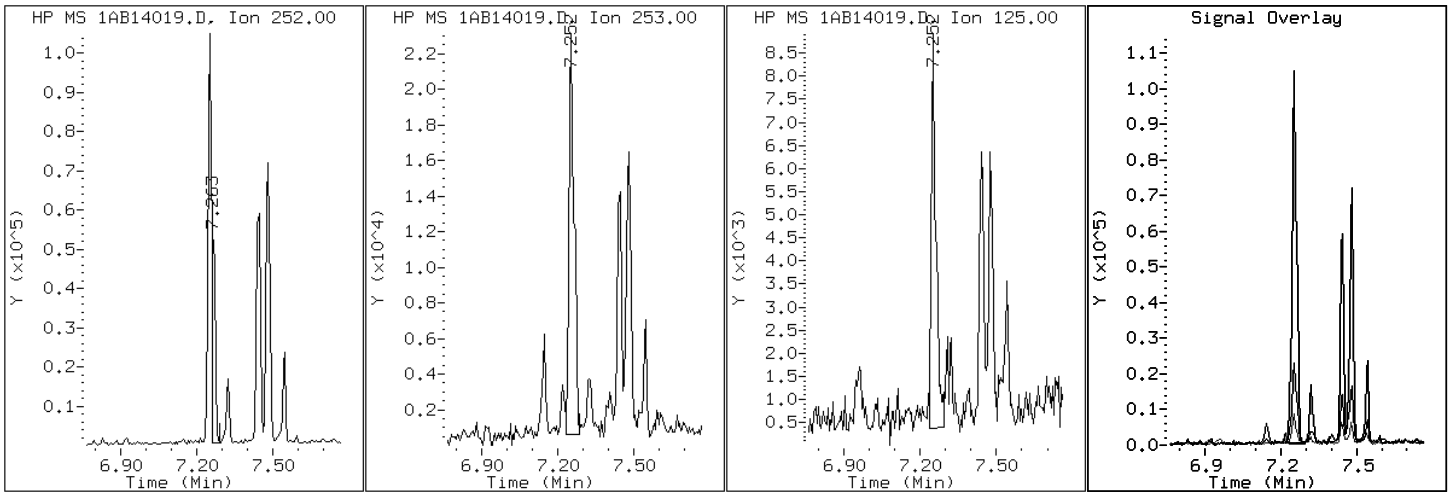
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

21 Benzo(k)fluoranthene



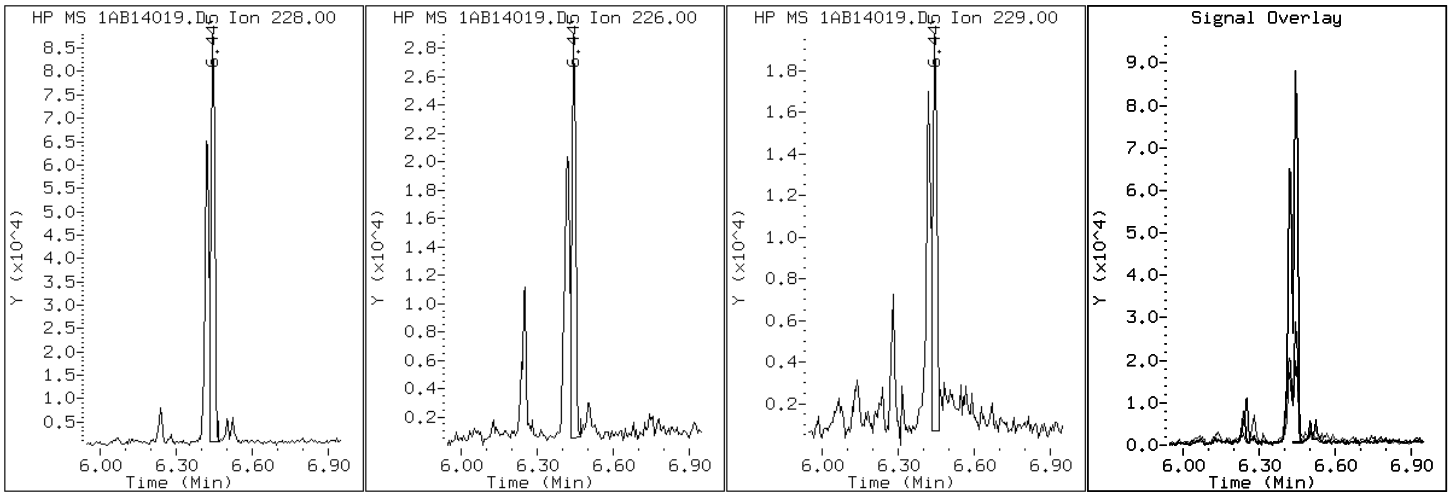
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

19 Chrysene



Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

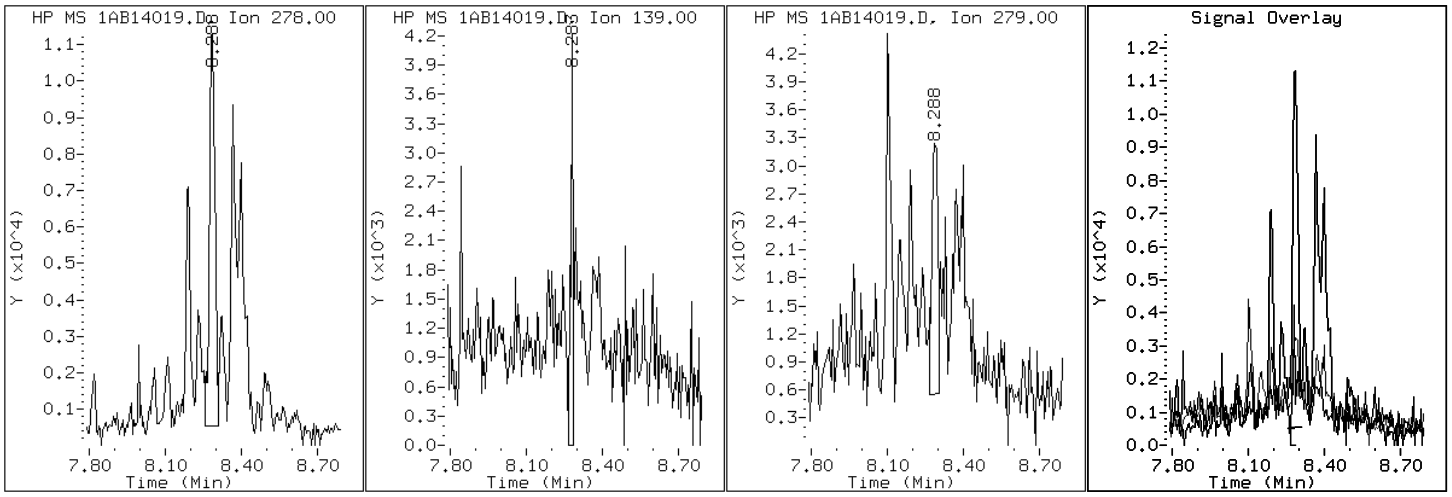
Client ID: CV0748S-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a

Operator: SCC

25 Dibenzo(a,h)anthracene



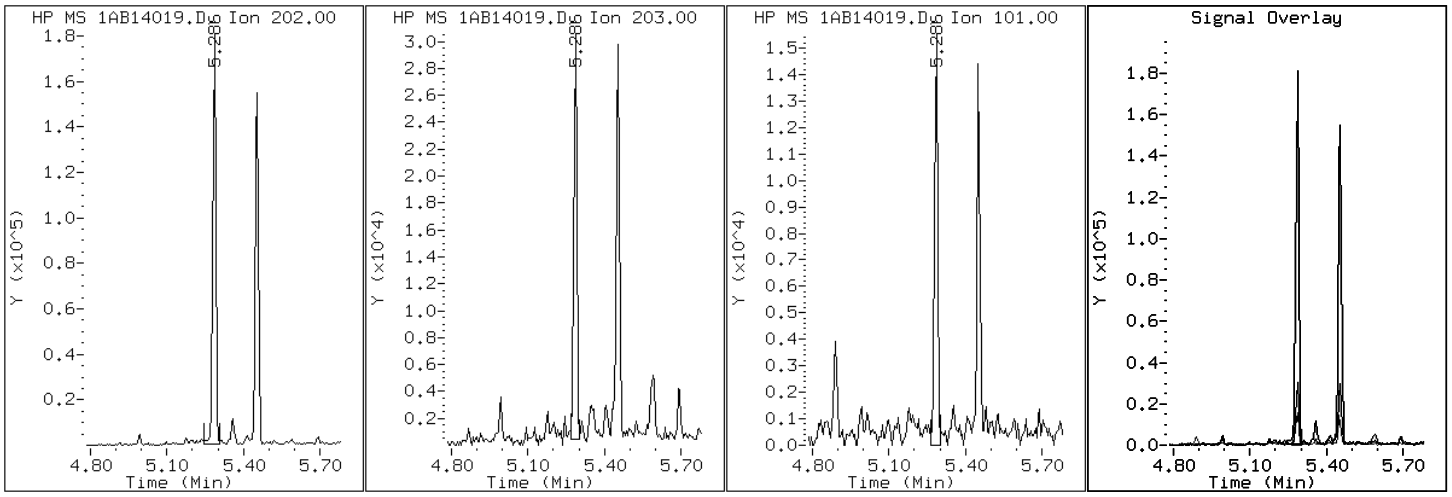
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

15 Fluoranthene



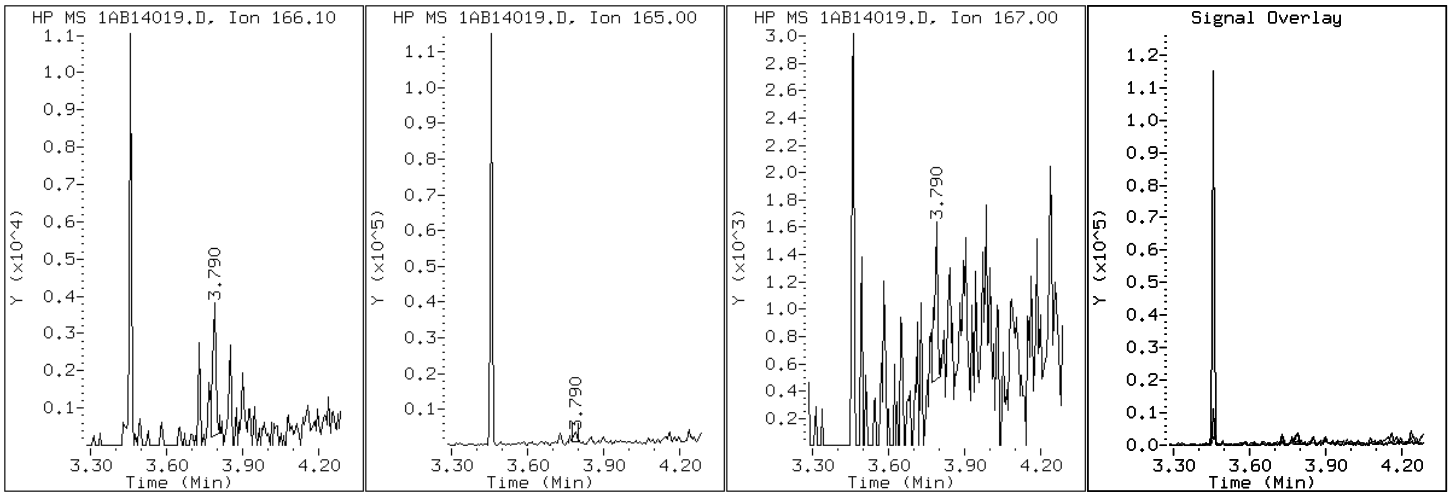
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

9 Fluorene



Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

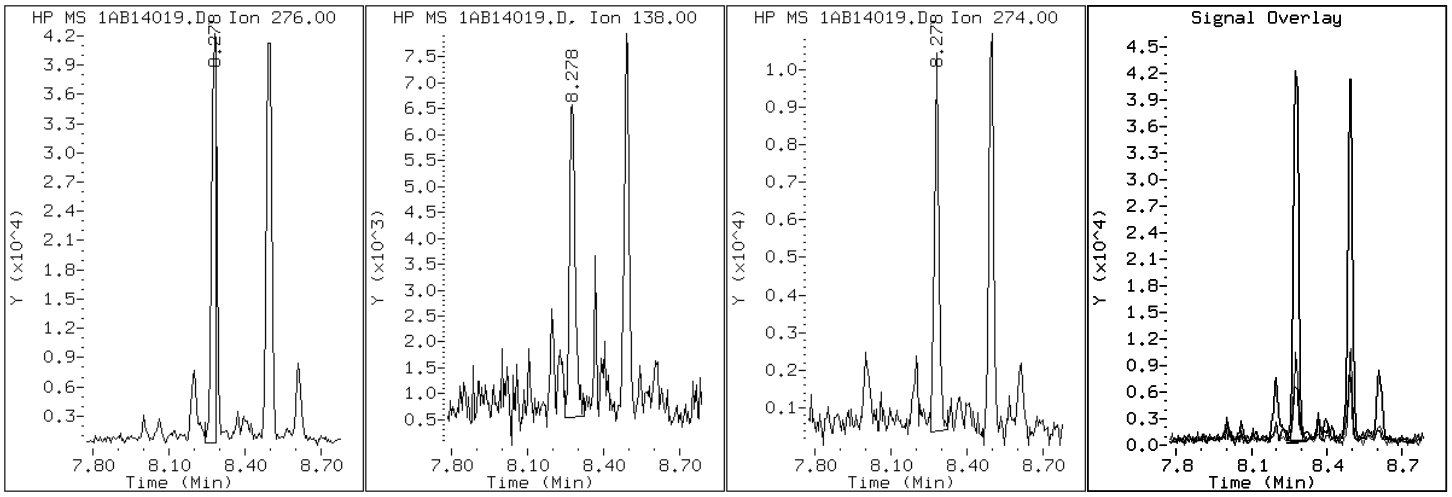
Client ID: CV0748S-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a

Operator: SCC

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



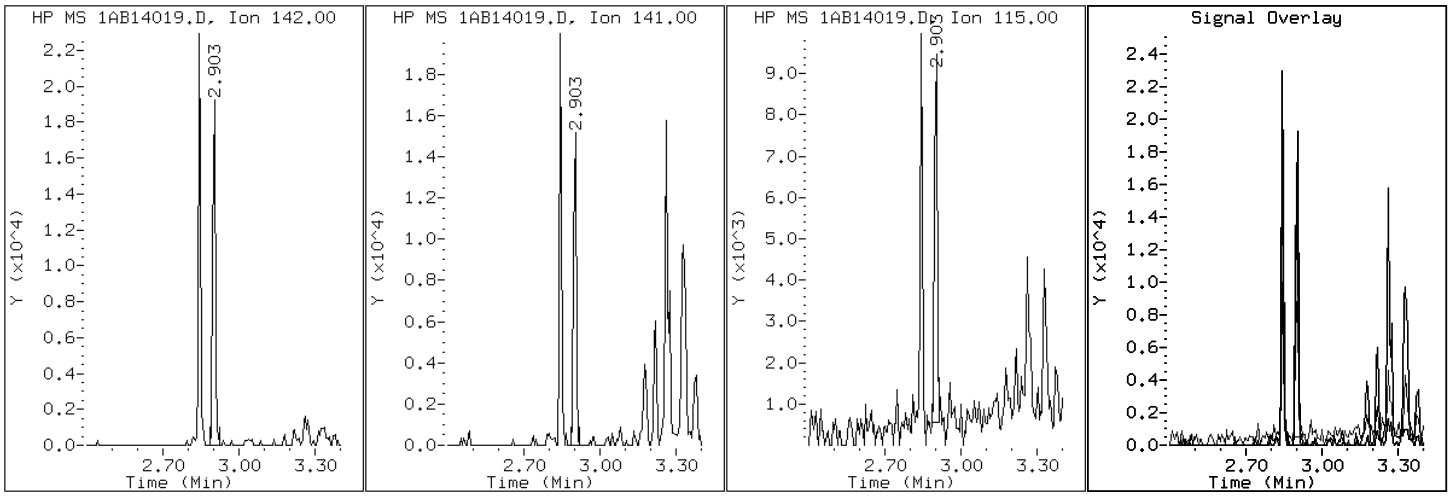
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

4 1-Methylnaphthalene



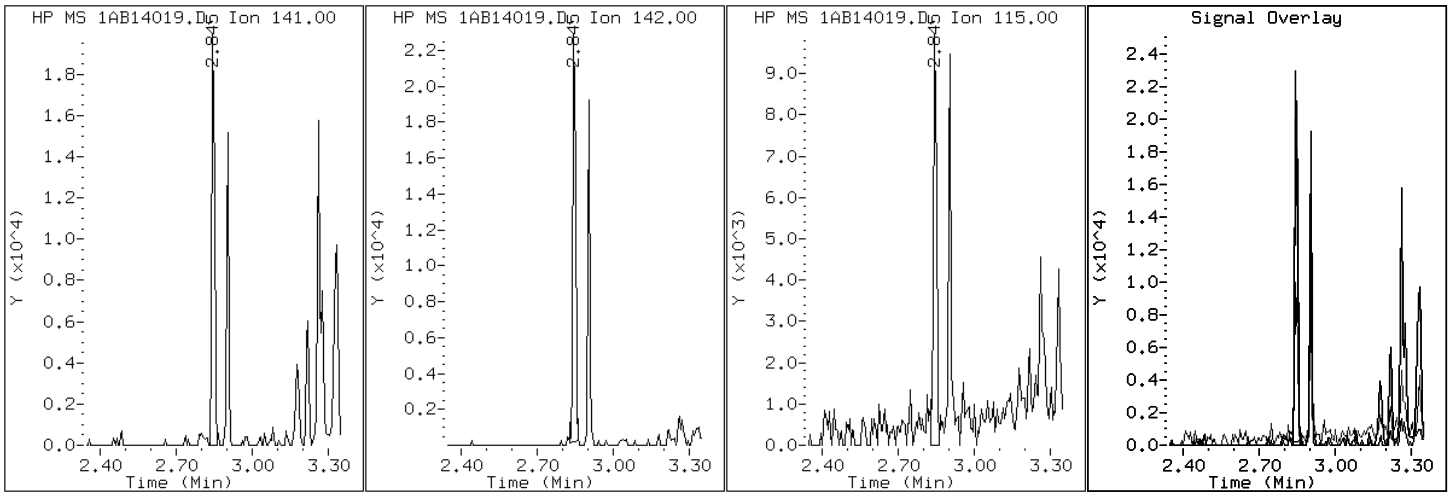
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

3 2-Methylnaphthalene



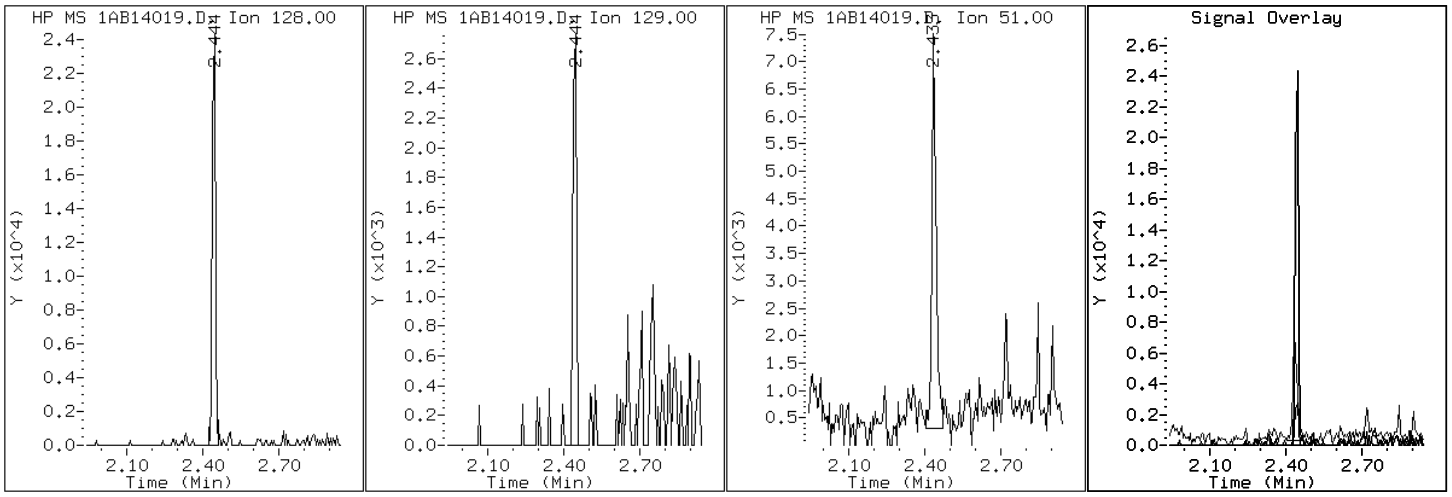
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a | Operator: SCC

2 Naphthalene



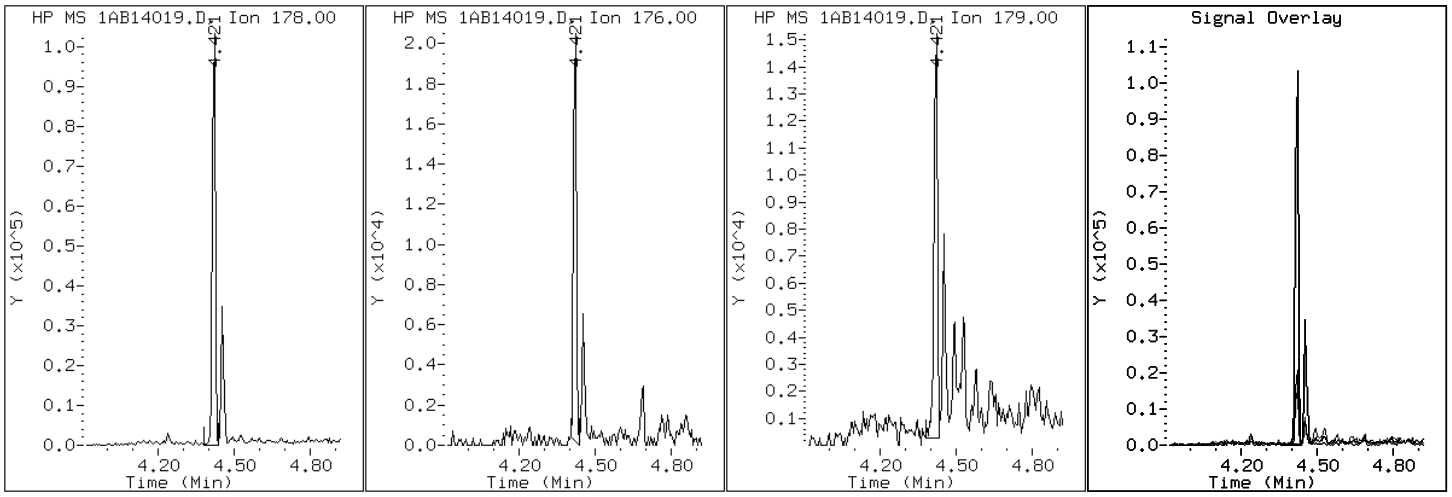
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

11 Phenanthrene



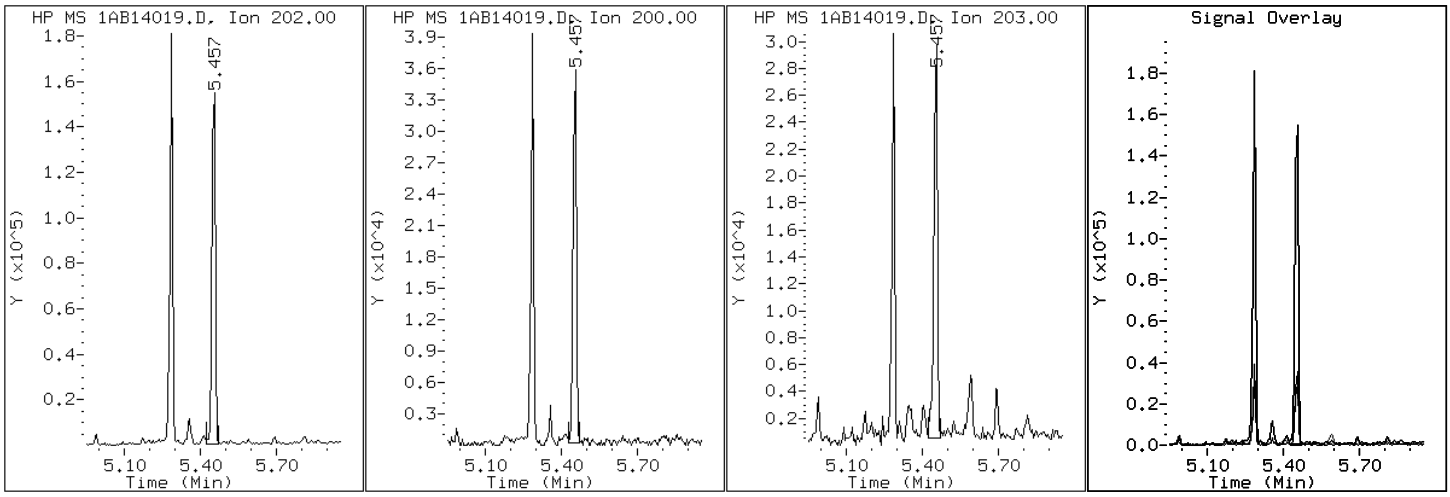
Data File: 1AB14019.D

Date: 14-FEB-2013 14:23

Client ID: CV0748S-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-31-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14019.D
Inj. Date and Time: 14-FEB-2013 14:23
Instrument ID: BSMA5973.i
Client ID: CV0748S-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

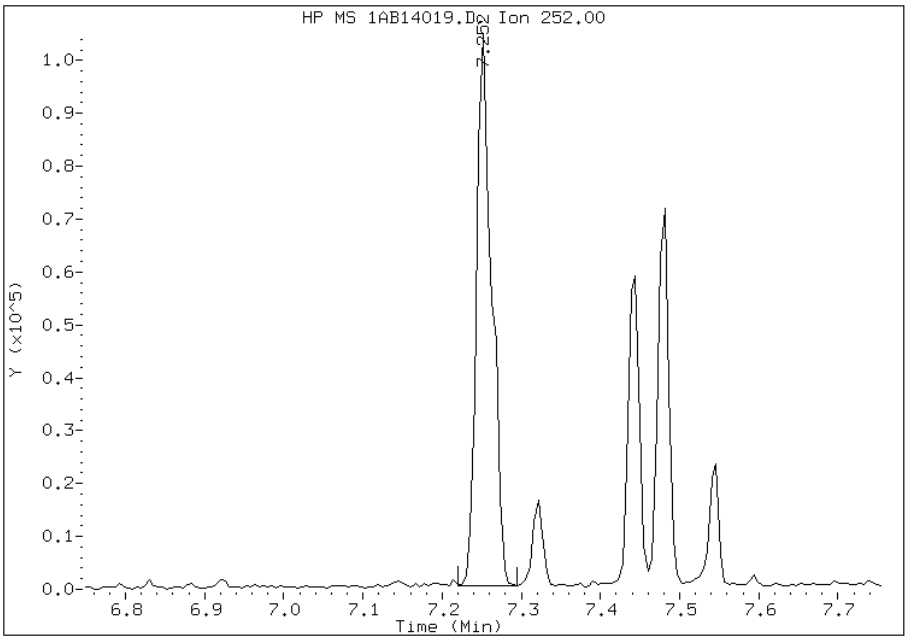
Processing Integration Results

RT: 7.25

Response: 136942

Amount: 8

Conc: 597



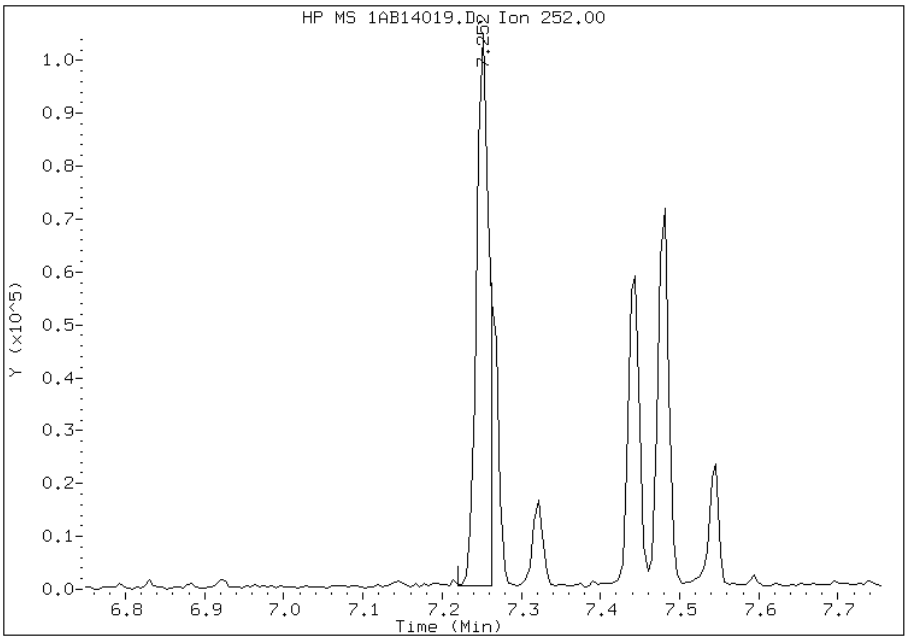
Manual Integration Results

RT: 7.25

Response: 115624

Amount: 7

Conc: 504



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14019.D
Inj. Date and Time: 14-FEB-2013 14:23
Instrument ID: BSMA5973.i
Client ID: CV0748S-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

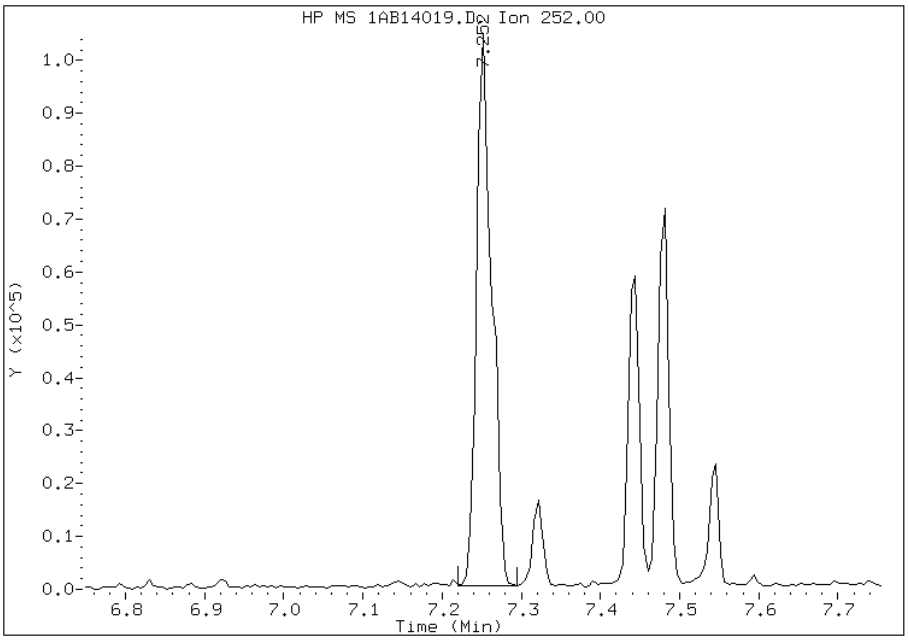
Processing Integration Results

RT: 7.25

Response: 136949

Amount: 8

Conc: 571



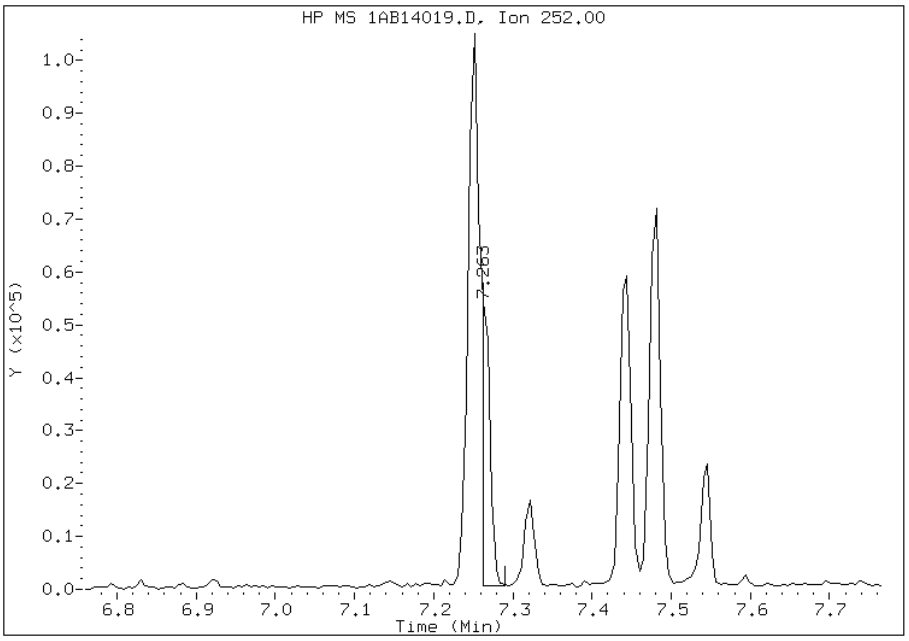
Manual Integration Results

RT: 7.26

Response: 38718

Amount: 2

Conc: 161



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14019.D
Inj. Date and Time: 14-FEB-2013 14:23
Instrument ID: BSMA5973.i
Client ID: CV0748S-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

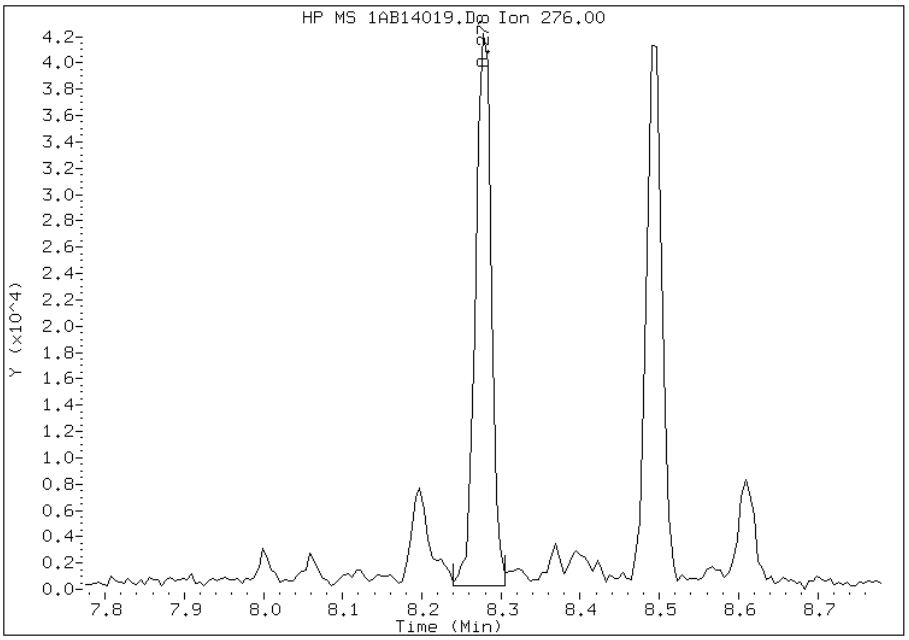
Processing Integration Results

RT: 8.28

Response: 57916

Amount: 5

Conc: 336



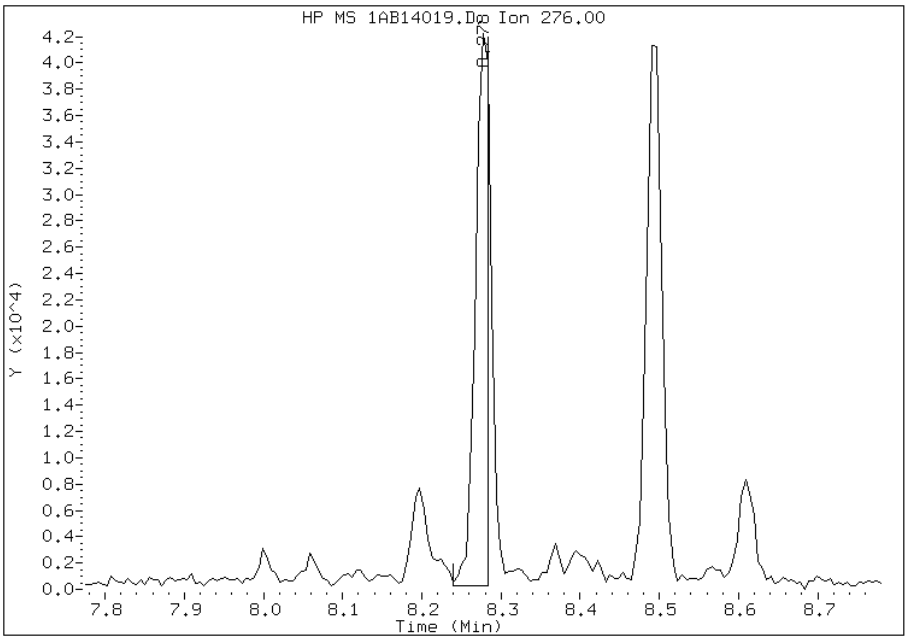
Manual Integration Results

RT: 8.28

Response: 47725

Amount: 4

Conc: 277



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748T-CS | Lab Sample ID: 680-87218-32

Matrix: Solid | Lab File ID: 1AB14020.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 15:19

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 14.92(g) | Date Analyzed: 02/14/2013 14:38

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

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

% Moisture: 15.2 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	10	J	47	5.9
120-12-7	Anthracene	30		10	5.0
56-55-3	Benzo[a]anthracene	190		9.5	4.6
50-32-8	Benzo[a]pyrene	100		12	6.2
205-99-2	Benzo[b]fluoranthene	160		14	7.2
191-24-2	Benzo[g,h,i]perylene	87		24	5.2
207-08-9	Benzo[k]fluoranthene	72		9.5	4.3
218-01-9	Chrysene	170		11	5.3
53-70-3	Dibenz(a,h)anthracene	35		24	4.9
206-44-0	Fluoranthene	290		24	4.7
86-73-7	Fluorene	5.5	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	85		24	8.4
90-12-0	1-Methylnaphthalene	15	J	47	5.2
91-57-6	2-Methylnaphthalene	22	J	47	8.4
91-20-3	Naphthalene	18	J	47	5.2
85-01-8	Phenanthrene	110		9.5	4.6
129-00-0	Pyrene	240		24	4.4

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\1A021413.b\1AB14020.D
Lab Smp Id: 680-87218-A-32-A Client Smp ID: CV0748T-CS
Inj Date : 14-FEB-2013 14:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-32-a
Misc Info : 680-87218-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 20
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	14.920	Weight Extracted
M	15.221	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.431	2.430	(1.000)	802215	40.0000	
* 6 Acenaphthene-d10	164	3.462	3.461	(1.000)	509530	40.0000	
* 10 Phenanthrene-d10	188	4.408	4.402	(1.000)	719695	40.0000	
$ 14 o-Terphenyl	230	4.685	4.685	(1.063)	72883	6.96941	550.9857
* 18 Chrysene-d12	240	6.432	6.426	(1.000)	501873	40.0000	
* 23 Perylene-d12	264	7.527	7.527	(1.000)	586119	40.0000	
2 Naphthalene	128	2.442	2.441	(1.004)	4485	0.23034	18.2097(Q)
3 2-Methylnaphthalene	141	2.848	2.847	(1.171)	2874	0.27552	21.7816
4 1-Methylnaphthalene	142	2.901	2.900	(1.193)	2253	0.19080	15.0841
5 Acenaphthylene	152	3.377	3.371	(0.975)	2978	0.13237	10.4644
9 Fluorene	166	3.788	3.787	(1.094)	1059	0.06916	5.4678
11 Phenanthrene	178	4.418	4.418	(1.002)	27921	1.42086	112.3300
12 Anthracene	178	4.450	4.455	(1.010)	7501	0.37439	29.5986
13 Carbazole	167	4.611	4.610	(1.046)	3167	0.18441	14.5788

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.284	5.283	(1.199)	72673	3.73017	294.8983
16 Pyrene	202	5.455	5.454	(0.848)	55739	3.07523	243.1208
17 Benzo(a)anthracene	228	6.422	6.416	(0.998)	35429	2.36426	186.9128
19 Chrysene	228	6.443	6.448	(1.002)	31763	2.17459	171.9178
20 Benzo(b)fluoranthene	252	7.244	7.244	(0.962)	32613	1.99362	157.6106(M)
21 Benzo(k)fluoranthene	252	7.255	7.265	(0.964)	15539	0.90852	71.8257(M)
22 Benzo(a)pyrene	252	7.474	7.479	(0.993)	20234	1.30252	102.9743
24 Indeno(1,2,3-cd)pyrene	276	8.270	8.275	(1.099)	13206	1.07659	85.1129(M)
25 Dibenzo(a,h)anthracene	278	8.281	8.291	(1.100)	5423	0.44223	34.9615
26 Benzo(g,h,i)perylene	276	8.484	8.494	(1.127)	14034	1.10434	87.3066

QC Flag Legend

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

Data File: 1AB14020.D

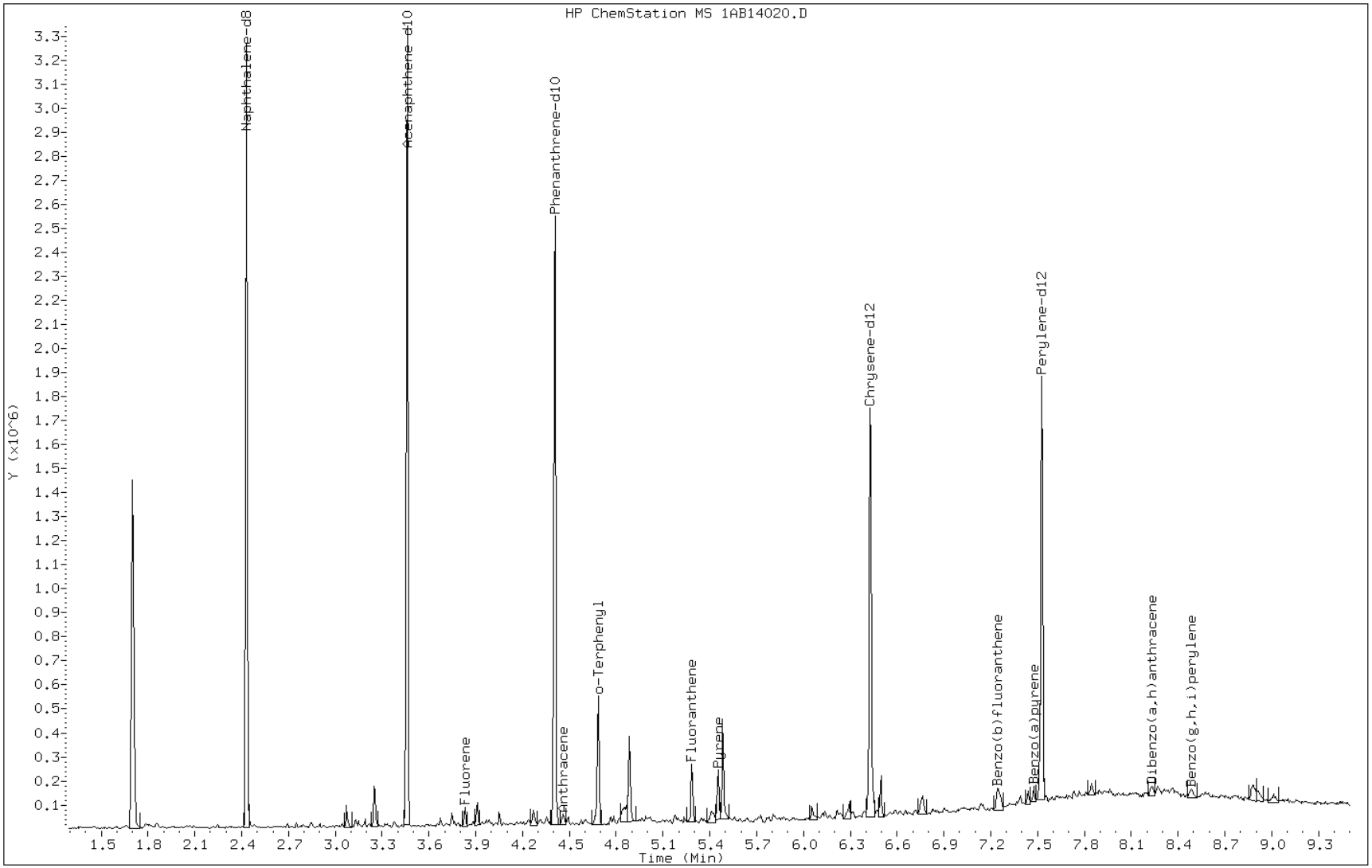
Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a

Operator: SCC



Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

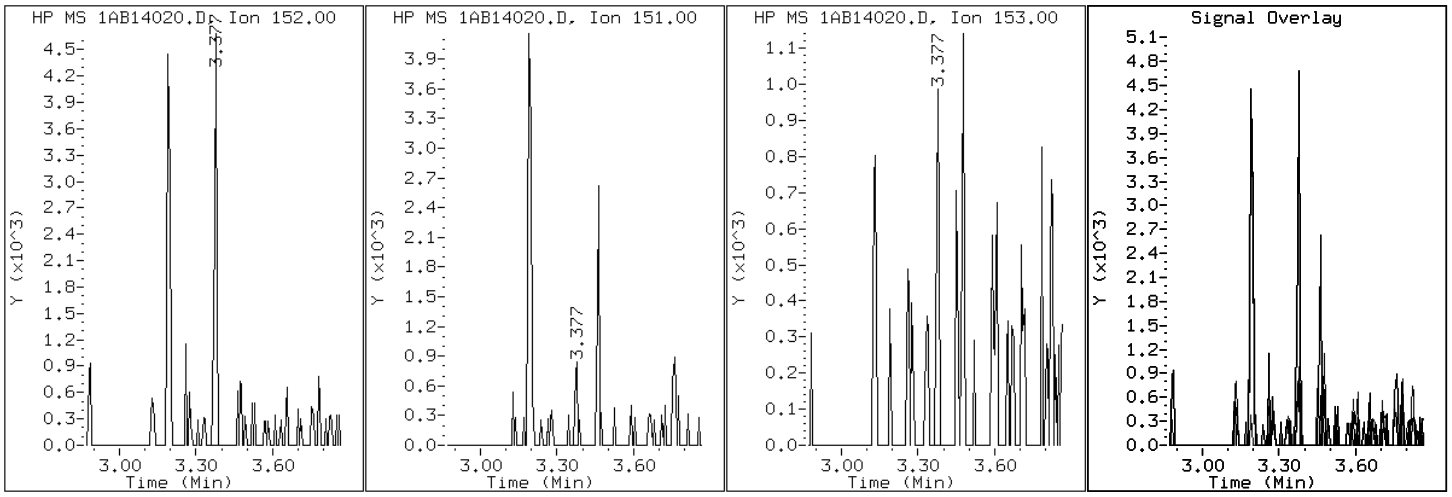
Client ID: CV0748T-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a

Operator: SCC

5 Acenaphthylene



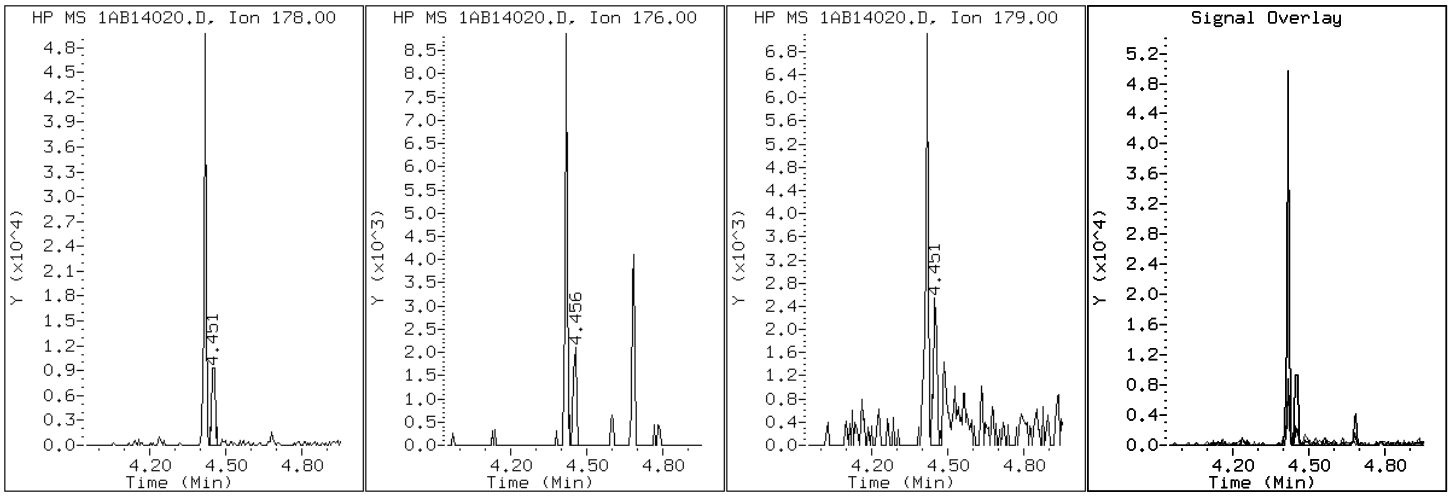
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

12 Anthracene



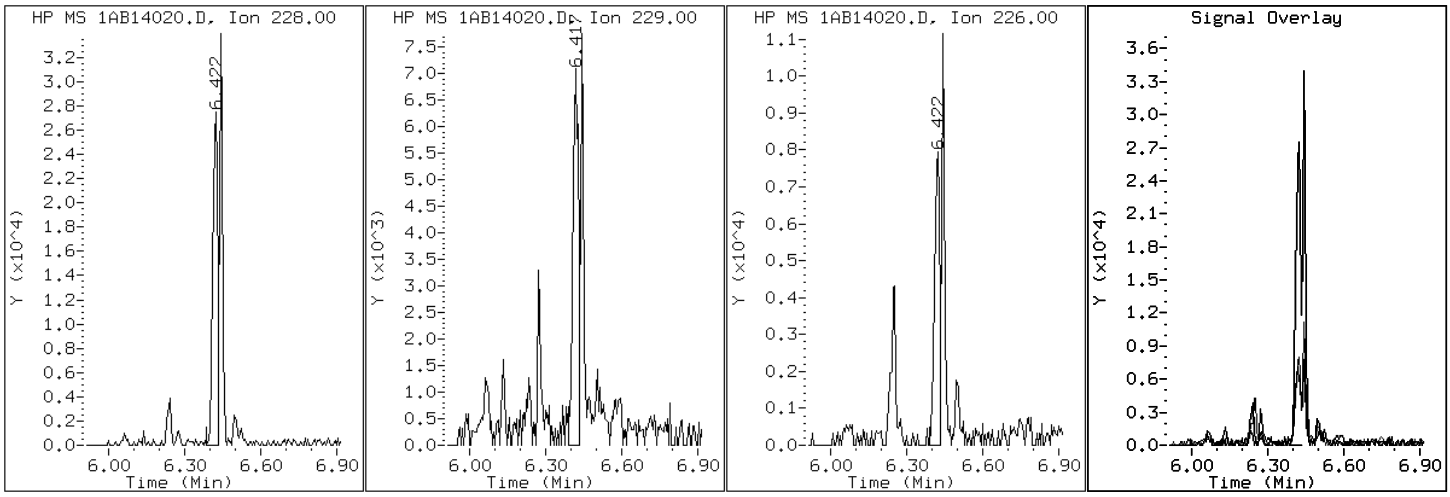
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

17 Benzo(a)anthracene



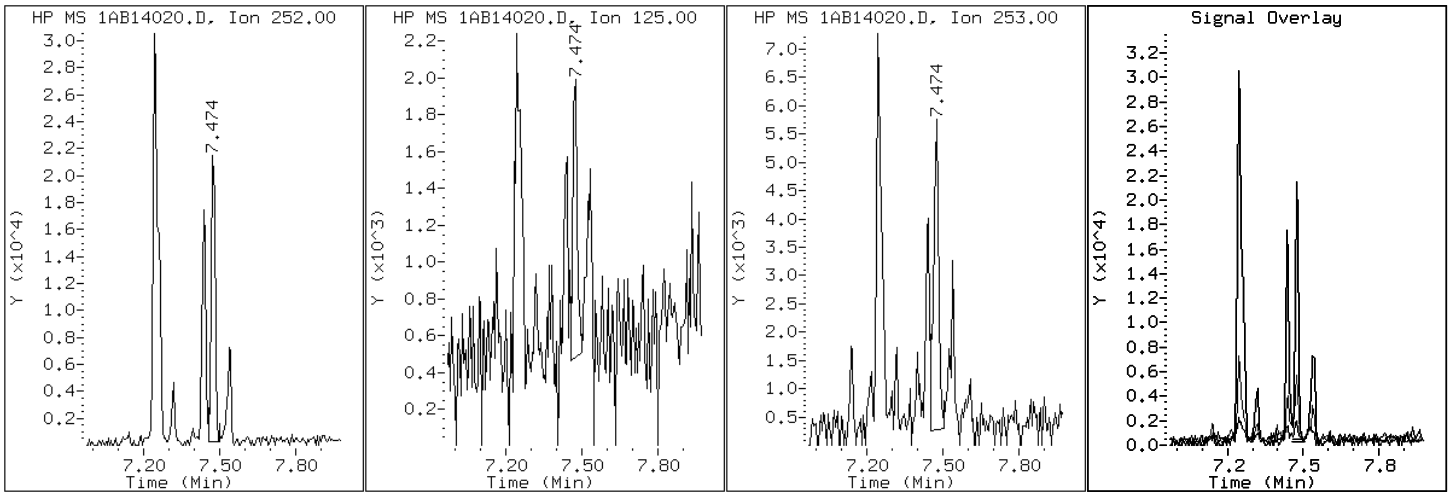
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

22 Benzo(a)pyrene



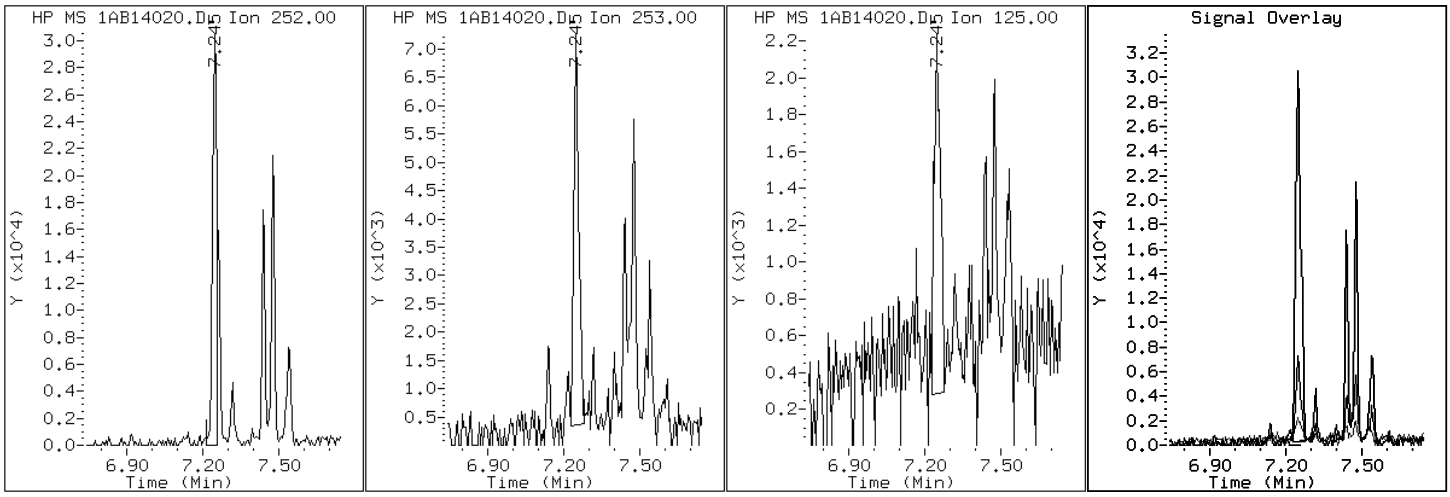
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

20 Benzo(b)fluoranthene



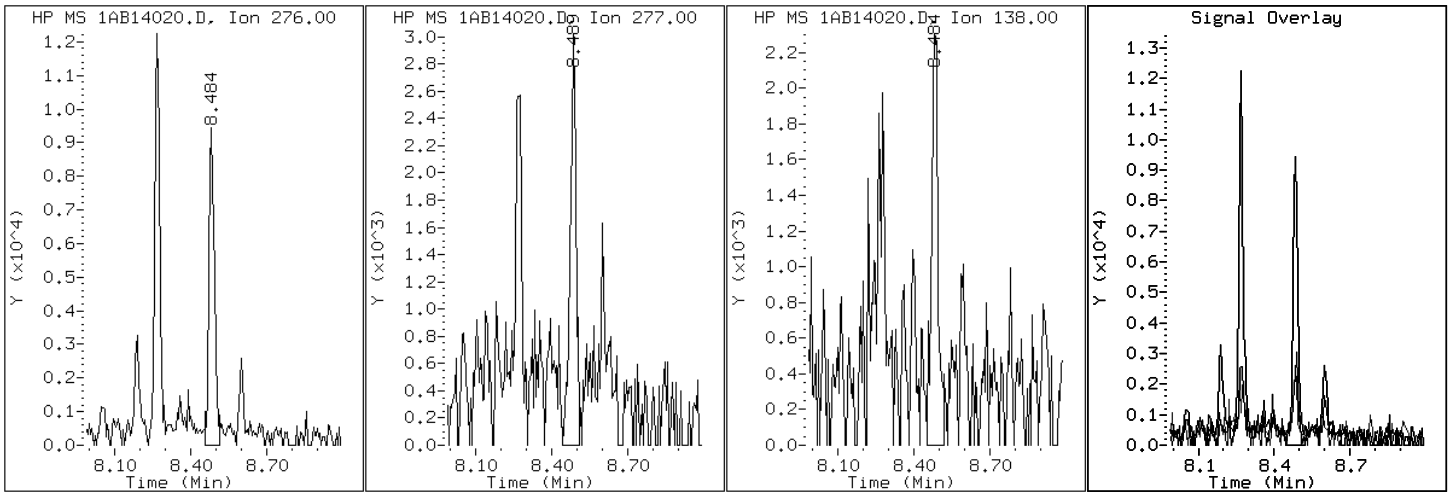
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a | Operator: SCC

26 Benzo(g,h,i)perylene



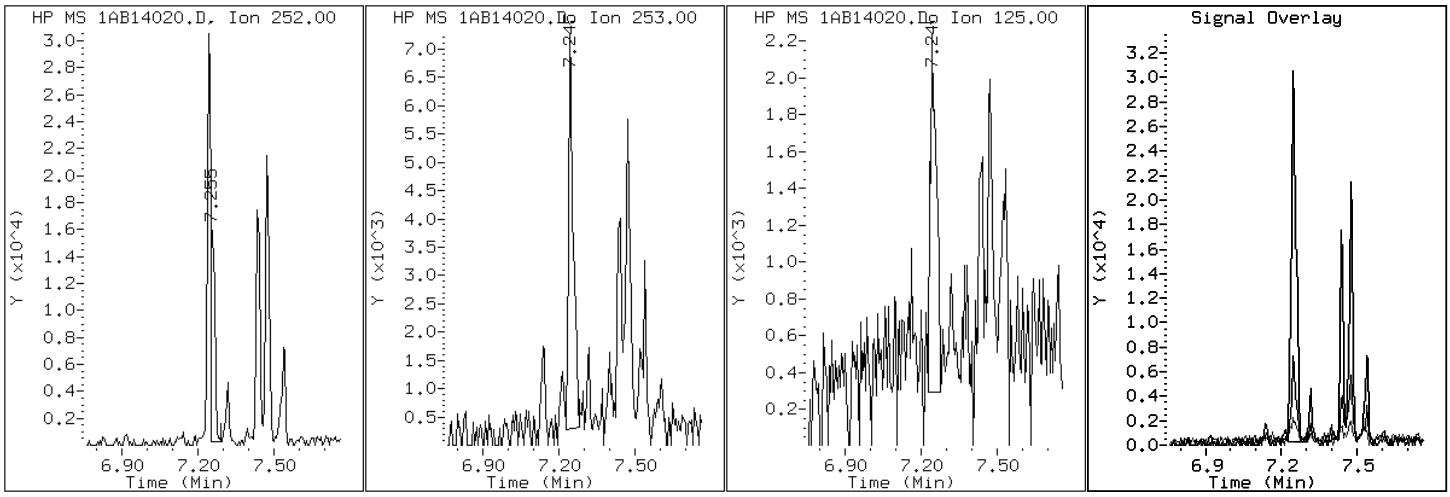
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

21 Benzo(k)fluoranthene



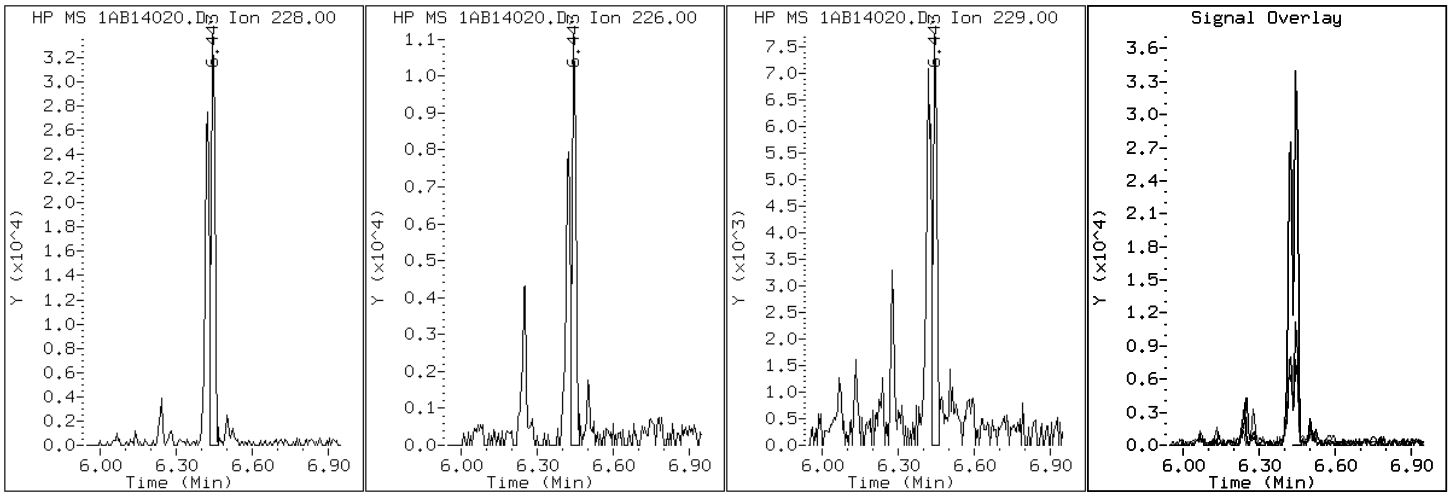
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

19 Chrysene



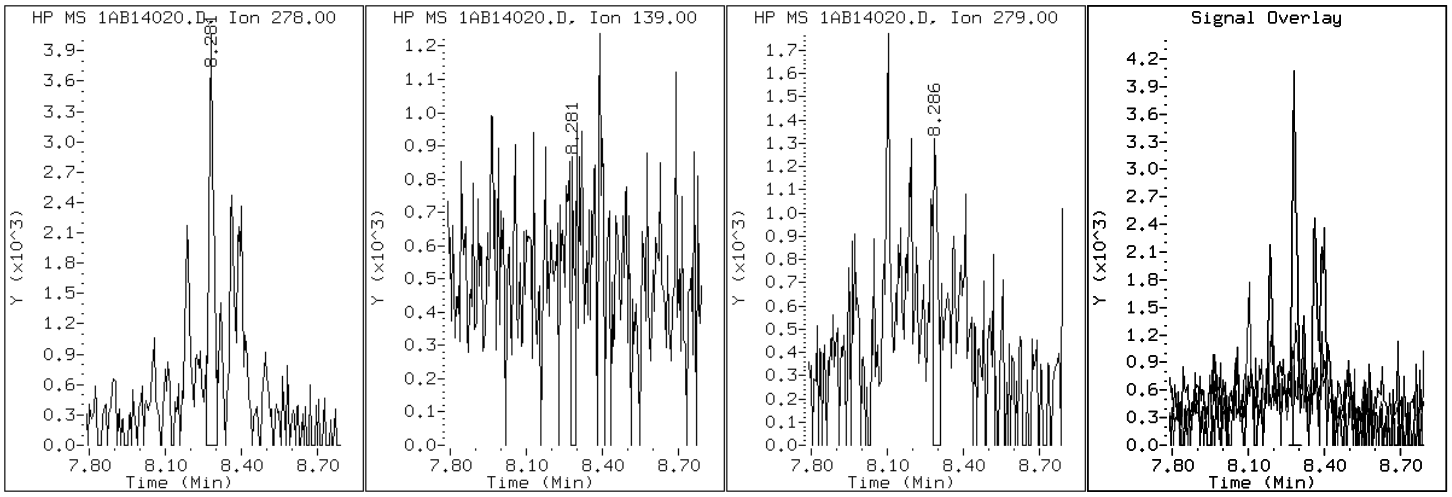
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

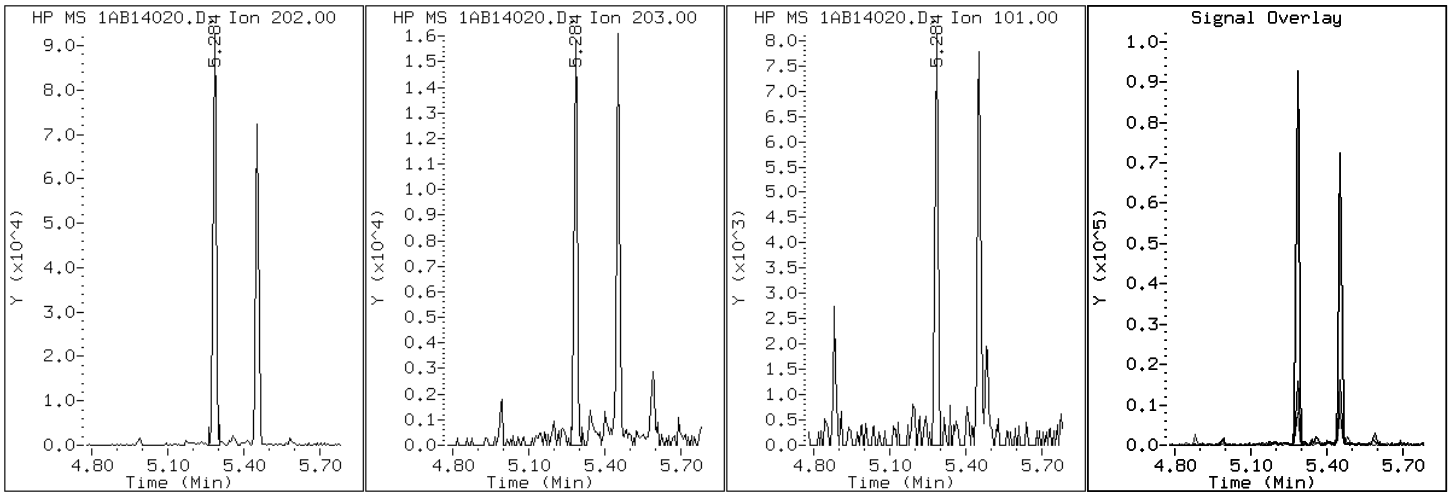
Client ID: CV0748T-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a

Operator: SCC

15 Fluoranthene



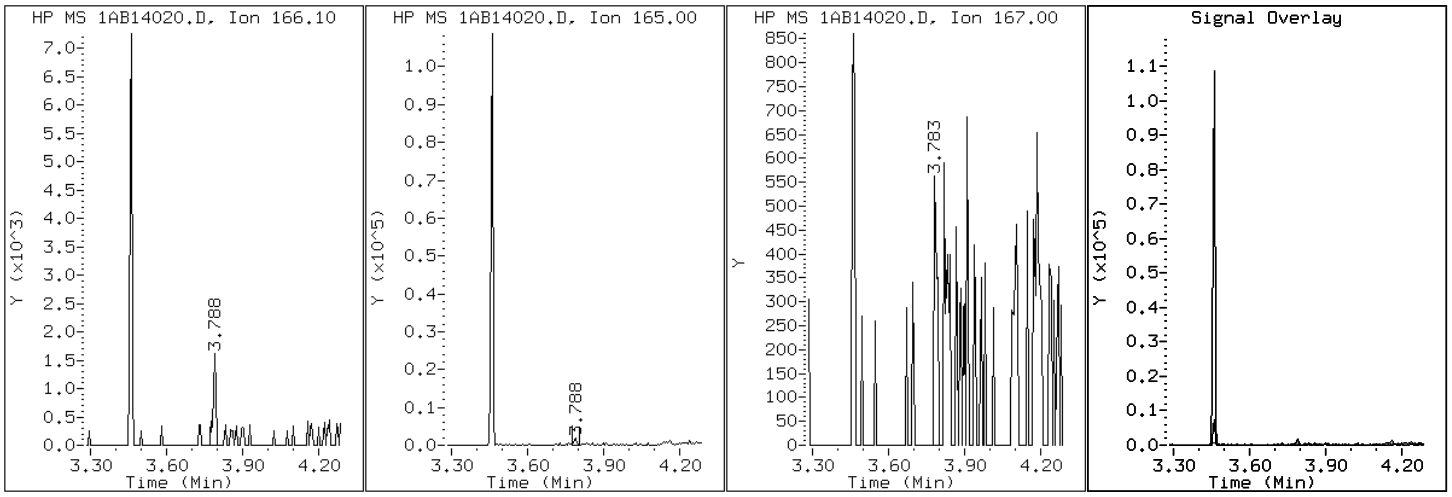
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

9 Fluorene



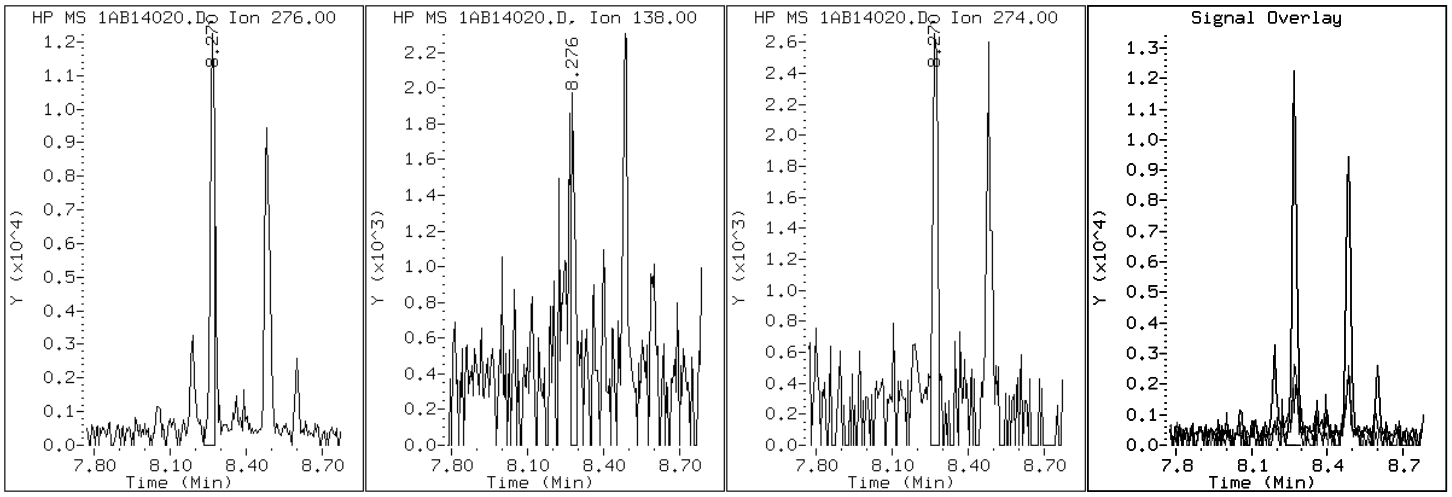
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

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



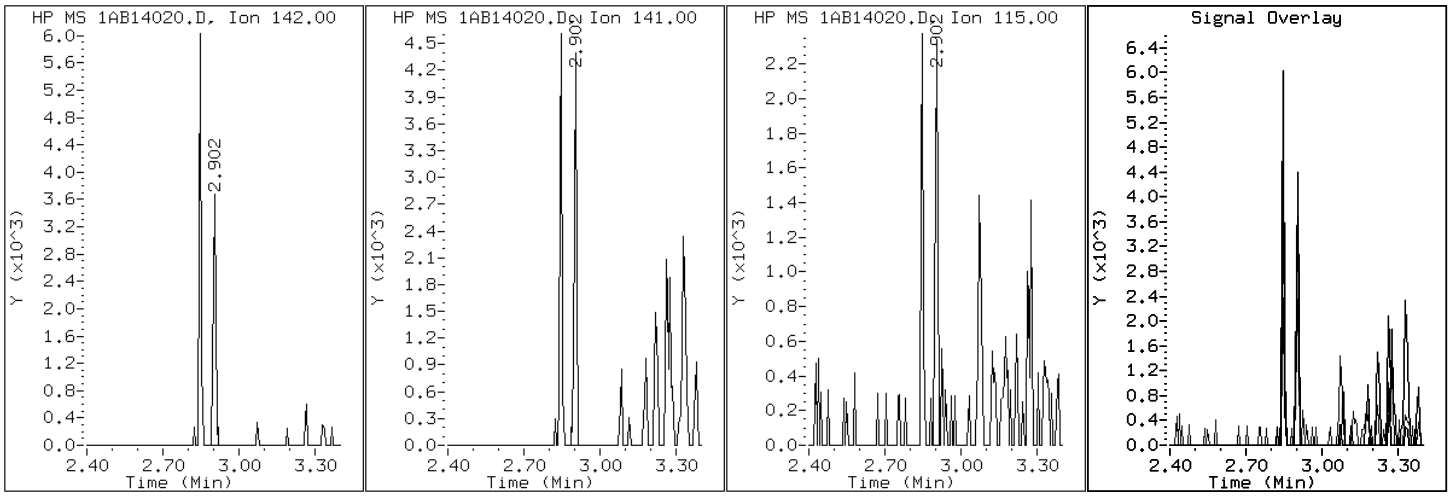
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

4 1-Methylnaphthalene



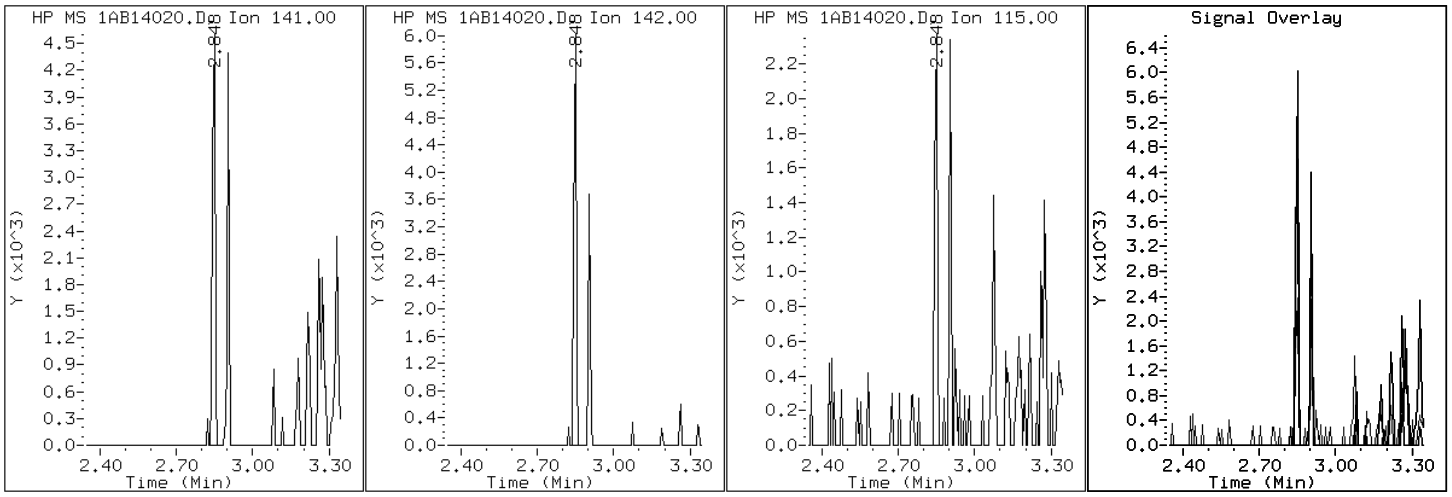
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

3 2-Methylnaphthalene



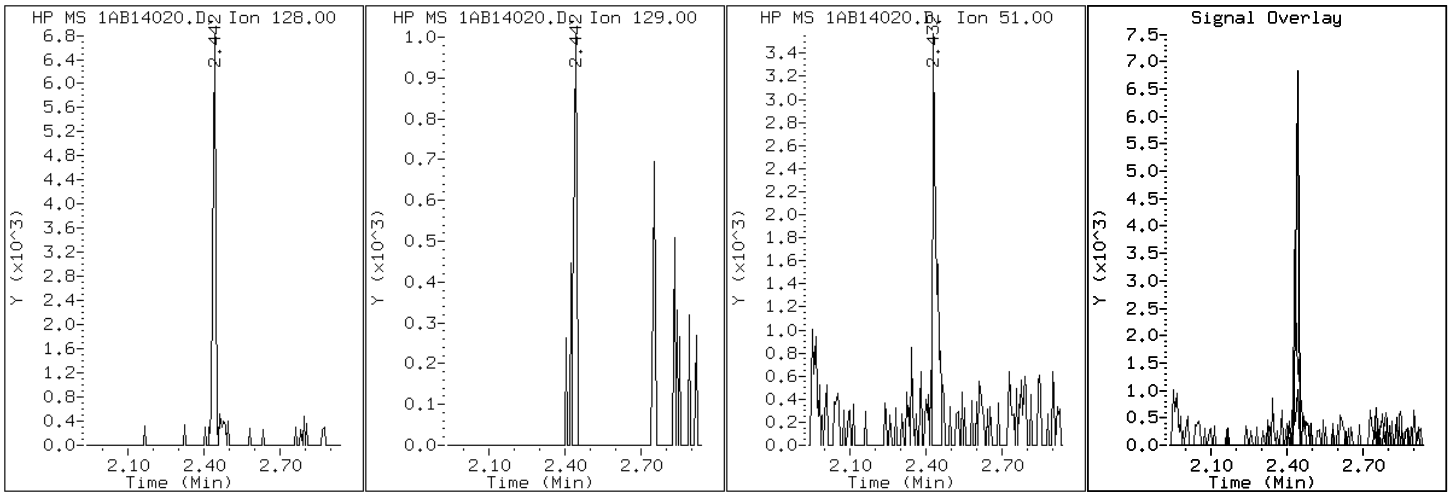
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

2 Naphthalene



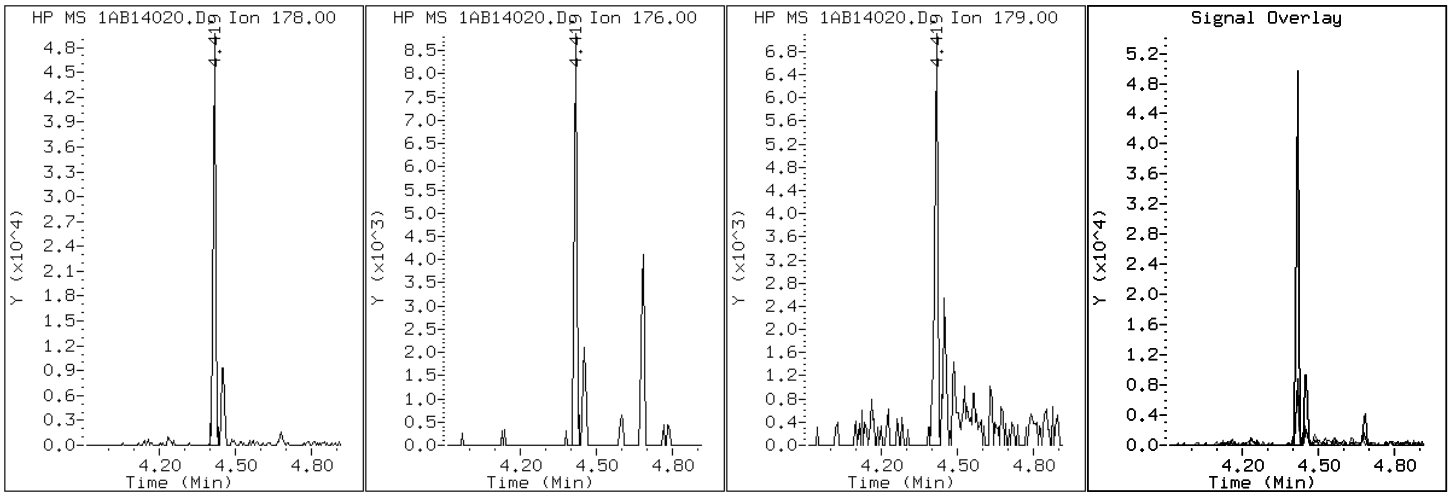
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

11 Phenanthrene



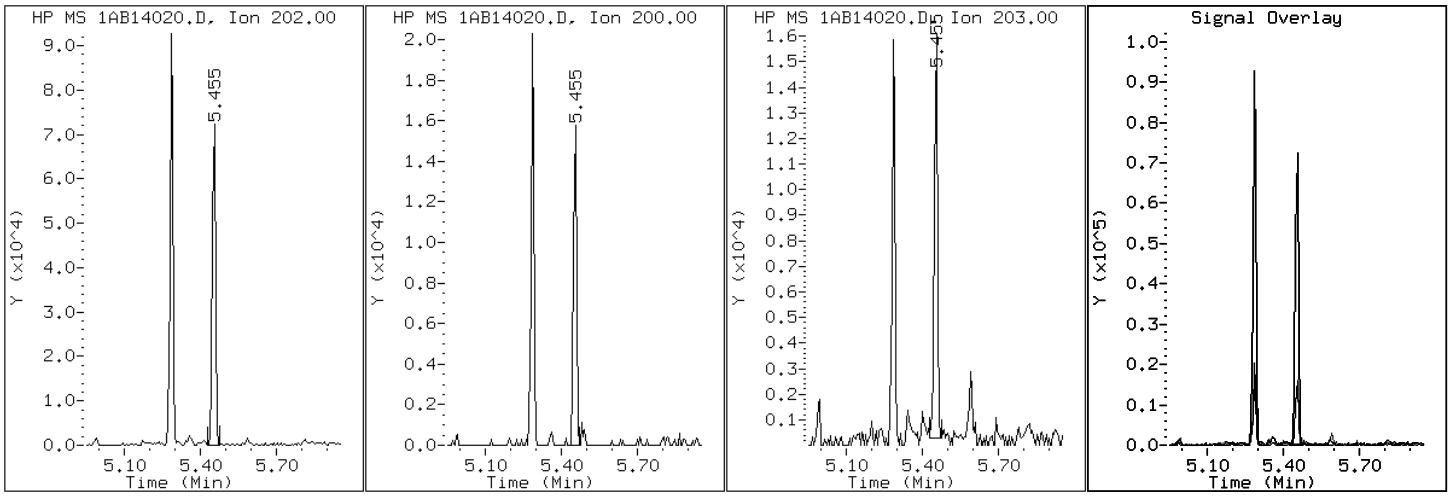
Data File: 1AB14020.D

Date: 14-FEB-2013 14:38

Client ID: CV0748T-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-32-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14020.D
Inj. Date and Time: 14-FEB-2013 14:38
Instrument ID: BSMA5973.i
Client ID: CV0748T-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

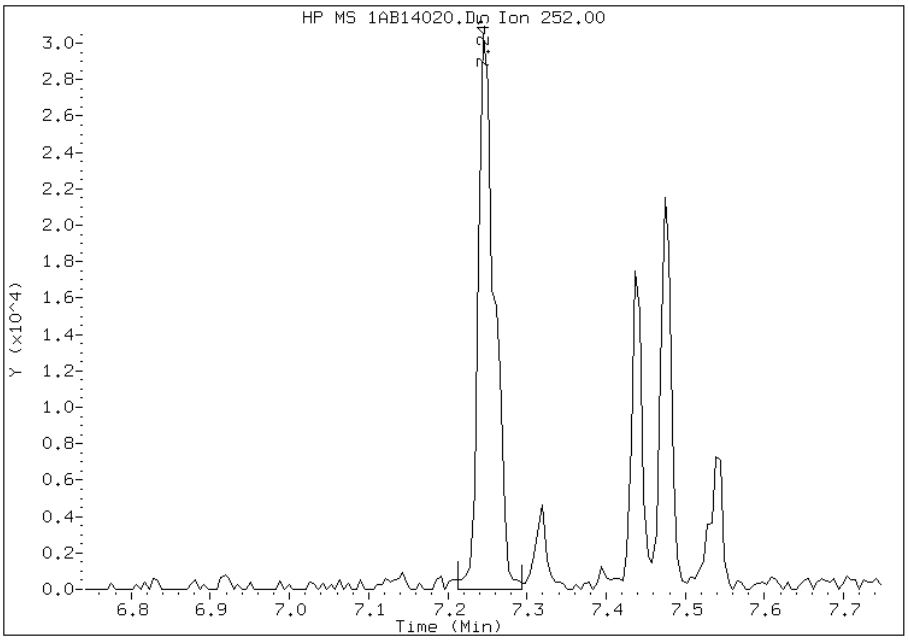
Processing Integration Results

RT: 7.24

Response: 43530

Amount: 3

Conc: 210



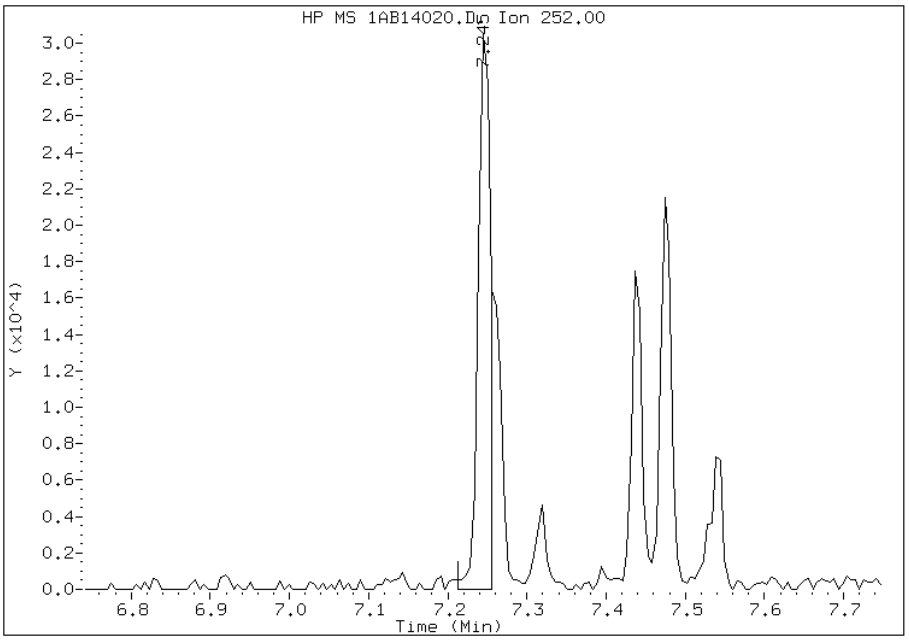
Manual Integration Results

RT: 7.24

Response: 32613

Amount: 2

Conc: 158



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:26
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14020.D
Inj. Date and Time: 14-FEB-2013 14:38
Instrument ID: BSMA5973.i
Client ID: CV0748T-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

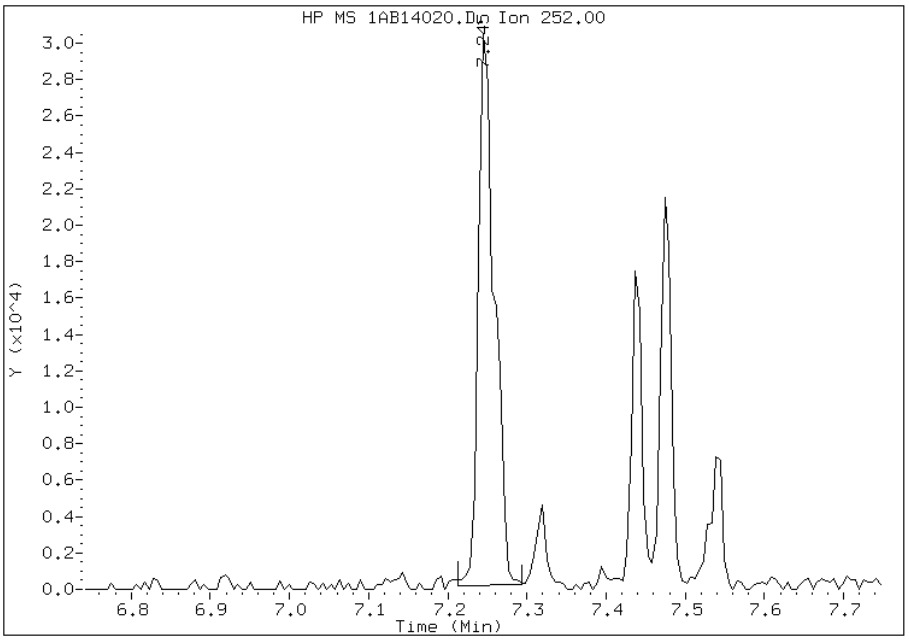
Processing Integration Results

RT: 7.24

Response: 42335

Amount: 2

Conc: 196



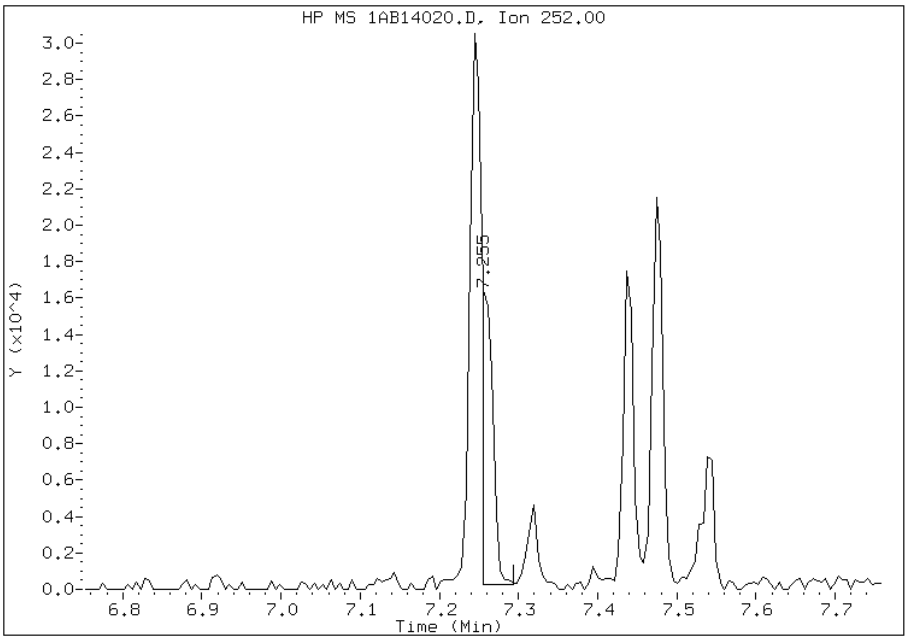
Manual Integration Results

RT: 7.26

Response: 15539

Amount: 1

Conc: 72



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14020.D
Inj. Date and Time: 14-FEB-2013 14:38
Instrument ID: BSMA5973.i
Client ID: CV0748T-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

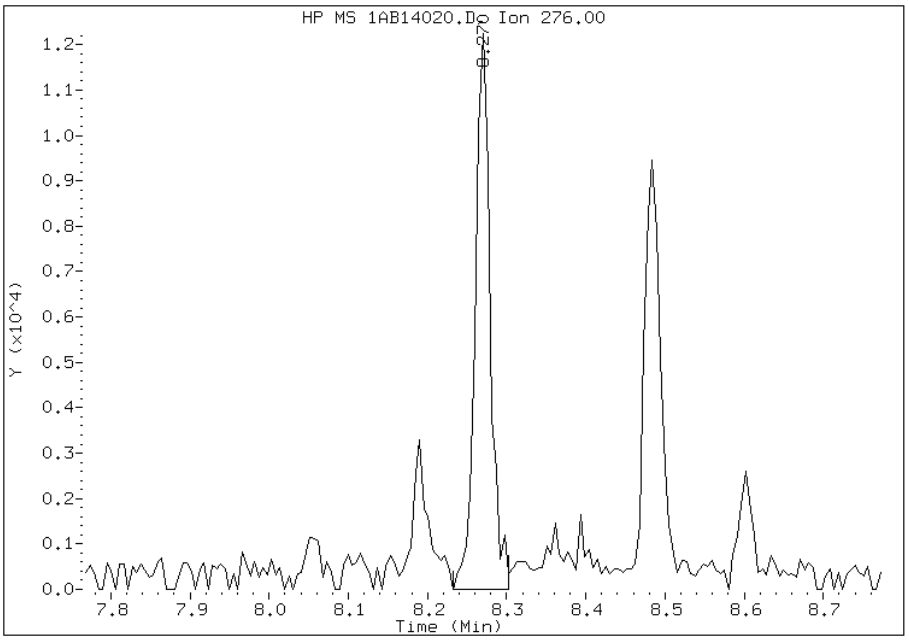
Processing Integration Results

RT: 8.27

Response: 15966

Amount: 1

Conc: 103



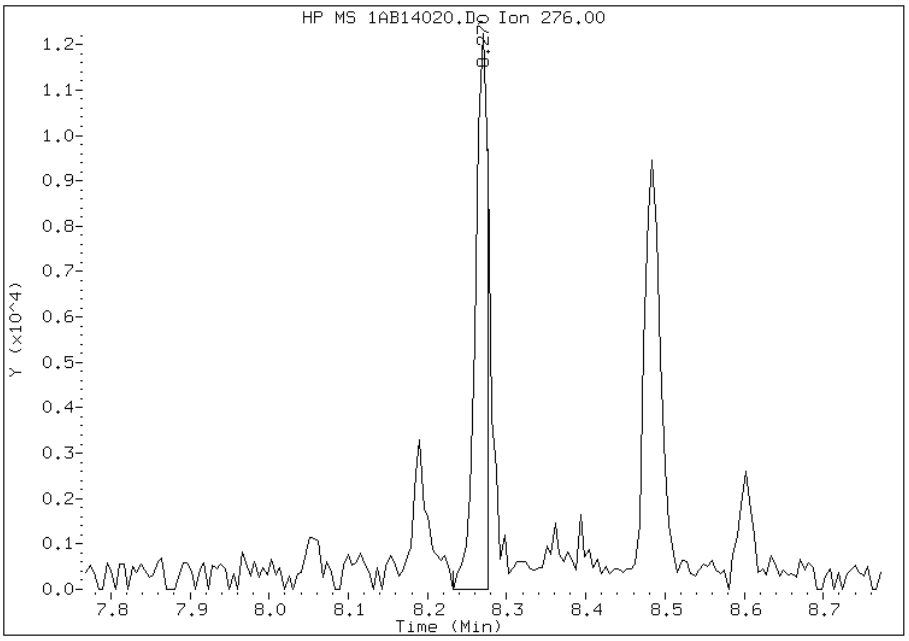
Manual Integration Results

RT: 8.27

Response: 13206

Amount: 1

Conc: 85



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748U-CS | Lab Sample ID: 680-87218-33

Matrix: Solid | Lab File ID: 1AB14021.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 15:22

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.05(g) | Date Analyzed: 02/14/2013 14:53

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

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

% Moisture: 9.2 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	29	J	110	22
208-96-8	Acenaphthylene	15	J	44	5.5
120-12-7	Anthracene	61		9.2	4.6
56-55-3	Benzo[a]anthracene	240		8.8	4.3
50-32-8	Benzo[a]pyrene	150		11	5.7
205-99-2	Benzo[b]fluoranthene	230		13	6.7
191-24-2	Benzo[g,h,i]perylene	130		22	4.8
207-08-9	Benzo[k]fluoranthene	69		8.8	4.0
218-01-9	Chrysene	180		9.9	4.9
53-70-3	Dibenz(a,h)anthracene	54		22	4.5
206-44-0	Fluoranthene	340		22	4.4
86-73-7	Fluorene	22		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	120		22	7.8
90-12-0	1-Methylnaphthalene	41	J	44	4.8
91-57-6	2-Methylnaphthalene	61		44	7.8
91-20-3	Naphthalene	88		44	4.8
85-01-8	Phenanthrene	250		8.8	4.3
129-00-0	Pyrene	230		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14021.D
Lab Smp Id: 680-87218-A-33-A Client Smp ID: CV0748U-CS
Inj Date : 14-FEB-2013 14:53
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-33-a
Misc Info : 680-87218-A-33-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 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	15.050	Weight Extracted
M	9.200	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.431	2.430	(1.000)	827172	40.0000	
* 6 Acenaphthene-d10	164	3.462	3.461	(1.000)	509068	40.0000	
* 10 Phenanthrene-d10	188	4.407	4.402	(1.000)	689963	40.0000	
$ 14 o-Terphenyl	230	4.685	4.685	(1.063)	78555	7.83550	573.3821
* 18 Chrysene-d12	240	6.432	6.426	(1.000)	526723	40.0000	
* 23 Perylene-d12	264	7.532	7.527	(1.000)	601775	40.0000	
2 Naphthalene	128	2.441	2.441	(1.004)	24167	1.20369	88.0831
3 2-Methylnaphthalene	141	2.847	2.847	(1.171)	8997	0.83647	61.2110
4 1-Methylnaphthalene	142	2.901	2.900	(1.193)	6845	0.56219	41.1396
5 Acenaphthylene	152	3.371	3.371	(0.974)	4517	0.20095	14.7051
7 Acenaphthene	154	3.478	3.477	(1.005)	4895	0.40235	29.4428
9 Fluorene	166	3.788	3.787	(1.094)	4647	0.30377	22.2291
11 Phenanthrene	178	4.418	4.418	(1.002)	64183	3.40693	249.3109
12 Anthracene	178	4.455	4.455	(1.011)	16033	0.83473	61.0834

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.610	4.610	(1.046)	10949	0.66501	48.6638
15 Fluoranthene	202	5.289	5.283	(1.200)	87115	4.66413	341.3095
16 Pyrene	202	5.454	5.454	(0.848)	59724	3.13964	229.7507
17 Benzo(a)anthracene	228	6.427	6.416	(0.999)	51127	3.25086	237.8897
19 Chrysene	228	6.448	6.448	(1.002)	36939	2.40964	176.3314
20 Benzo(b)fluoranthene	252	7.249	7.244	(0.962)	53202	3.16760	231.7970(M)
21 Benzo(k)fluoranthene	252	7.260	7.265	(0.964)	16506	0.93995	68.7834(QMH)
22 Benzo(a)pyrene	252	7.479	7.479	(0.993)	32467	2.03562	148.9617
24 Indeno(1,2,3-cd)pyrene	276	8.270	8.275	(1.098)	20975	1.66546	121.8741(M)
25 Dibenzo(a,h)anthracene	278	8.280	8.291	(1.099)	9322	0.74040	54.1807(H)
26 Benzo(g,h,i)perylene	276	8.483	8.494	(1.126)	22784	1.74624	127.7853

QC Flag Legend

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

Data File: 1AB14021.D

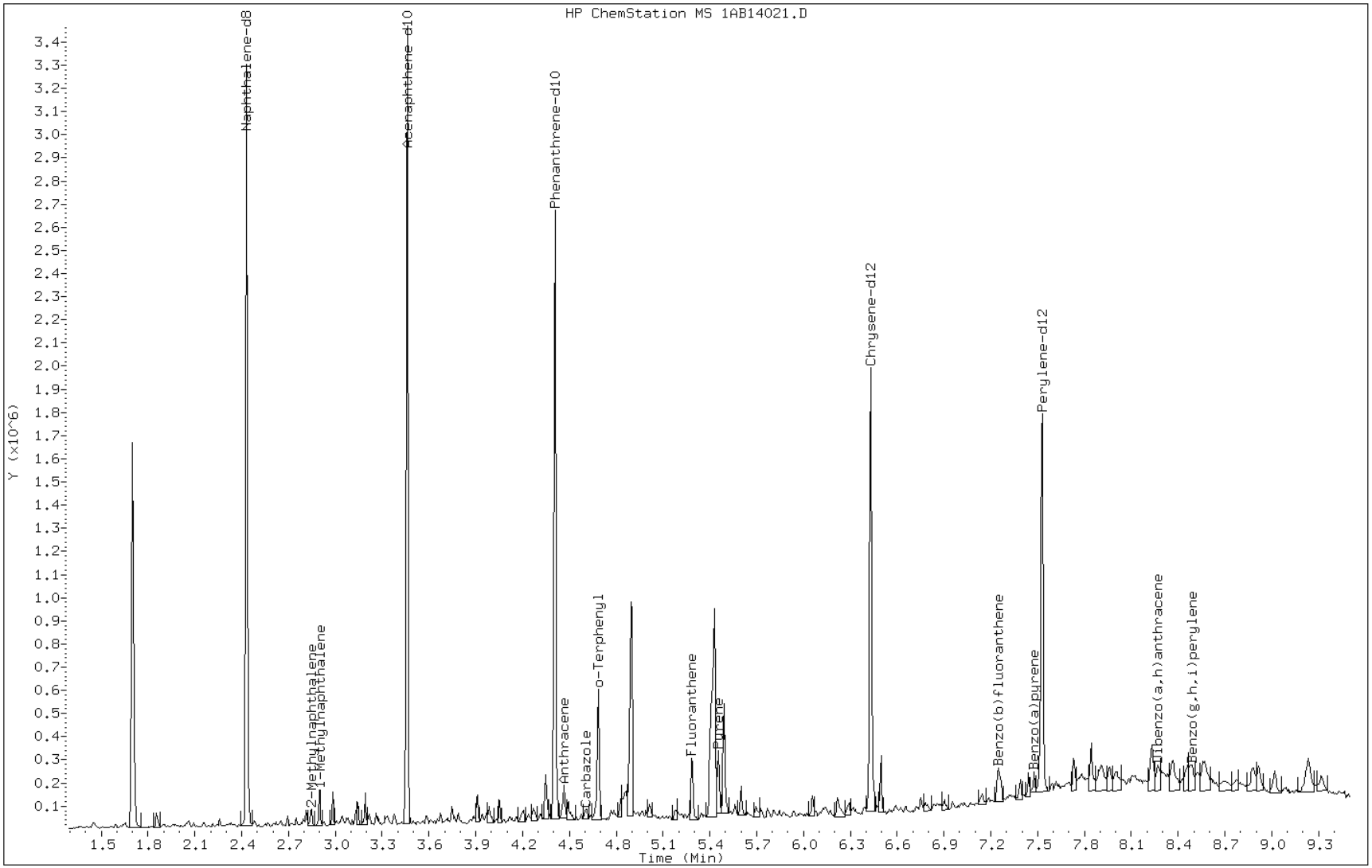
Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a

Operator: SCC



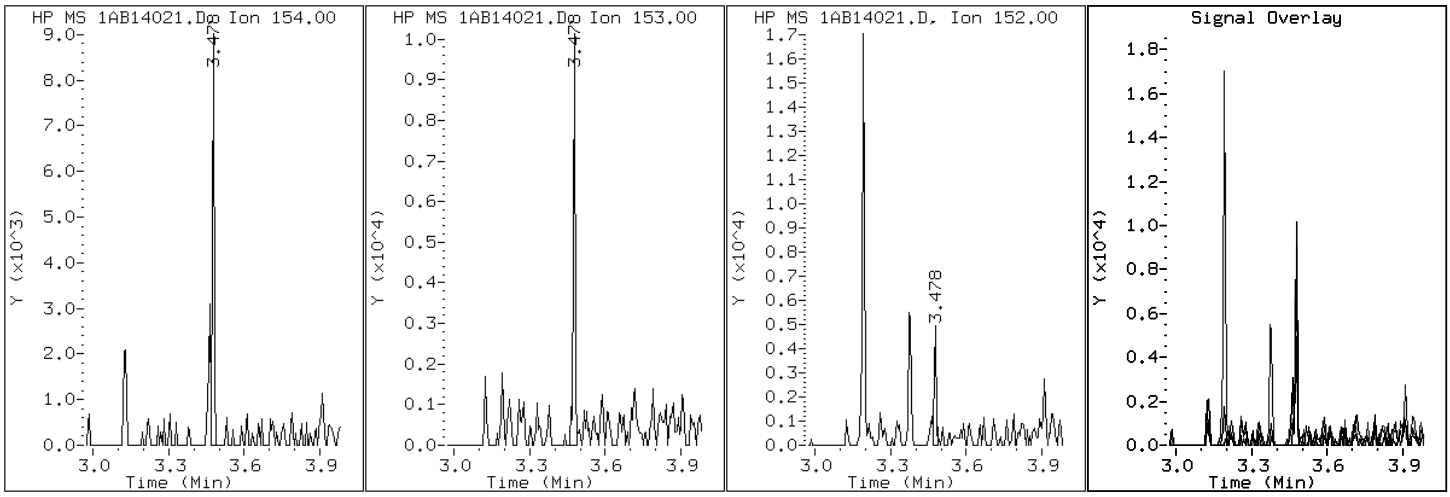
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

7 Acenaphthene



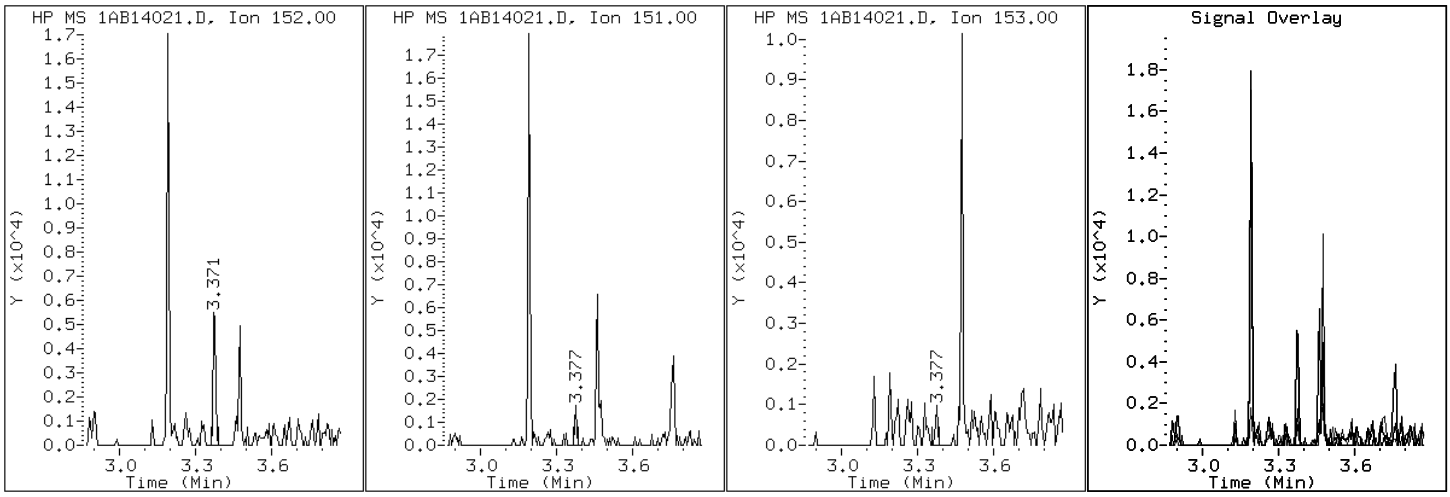
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

5 Acenaphthylene



Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

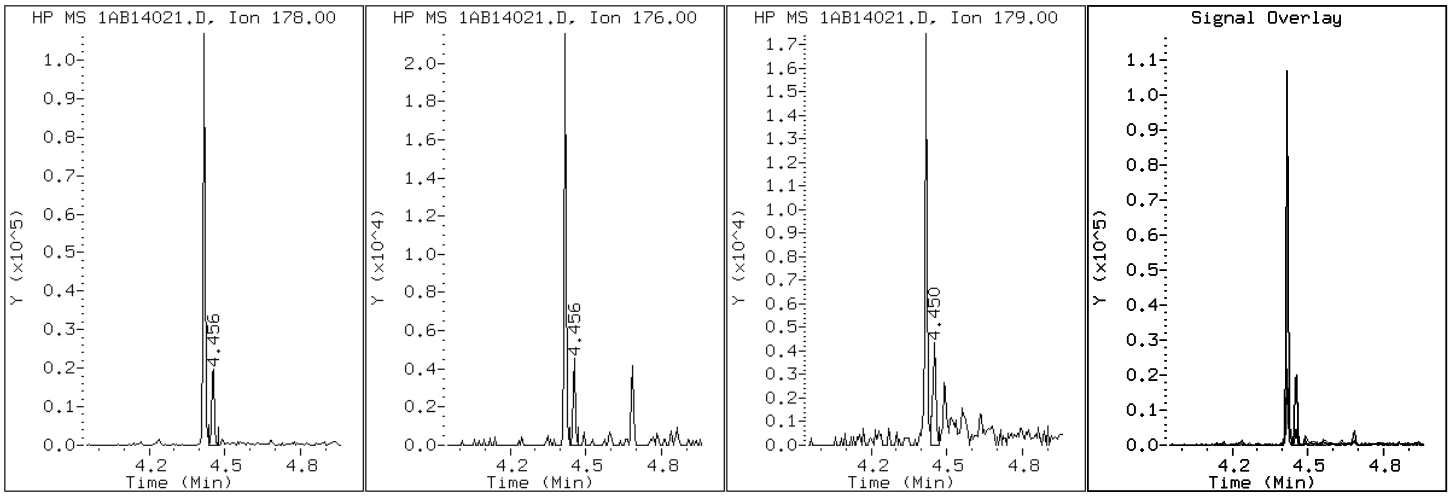
Client ID: CV0748U-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a

Operator: SCC

12 Anthracene



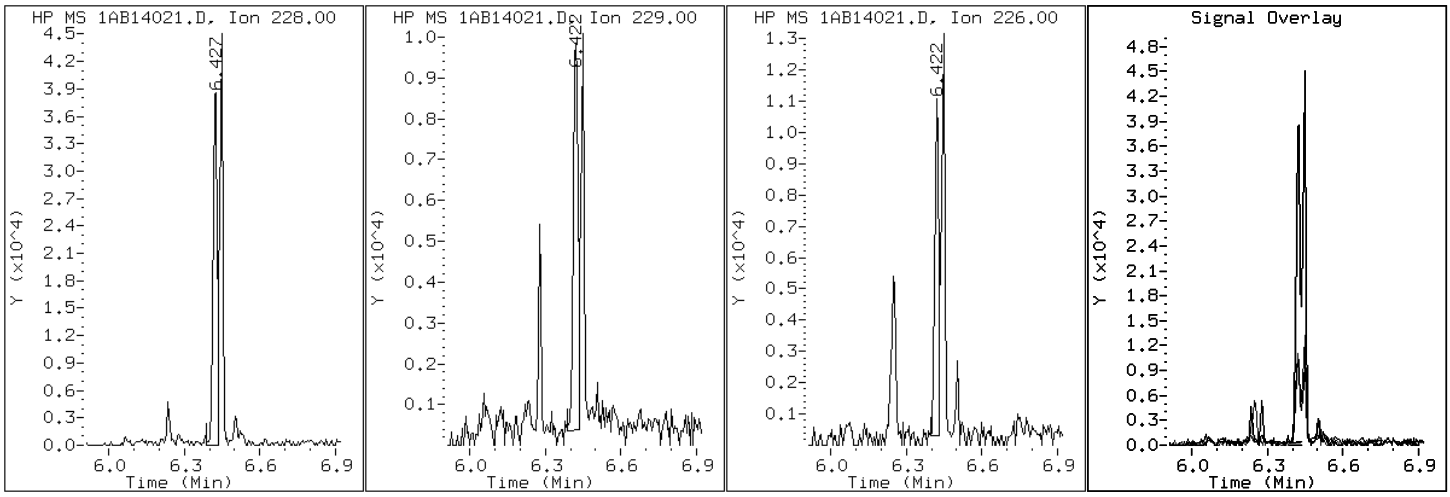
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

17 Benzo(a)anthracene



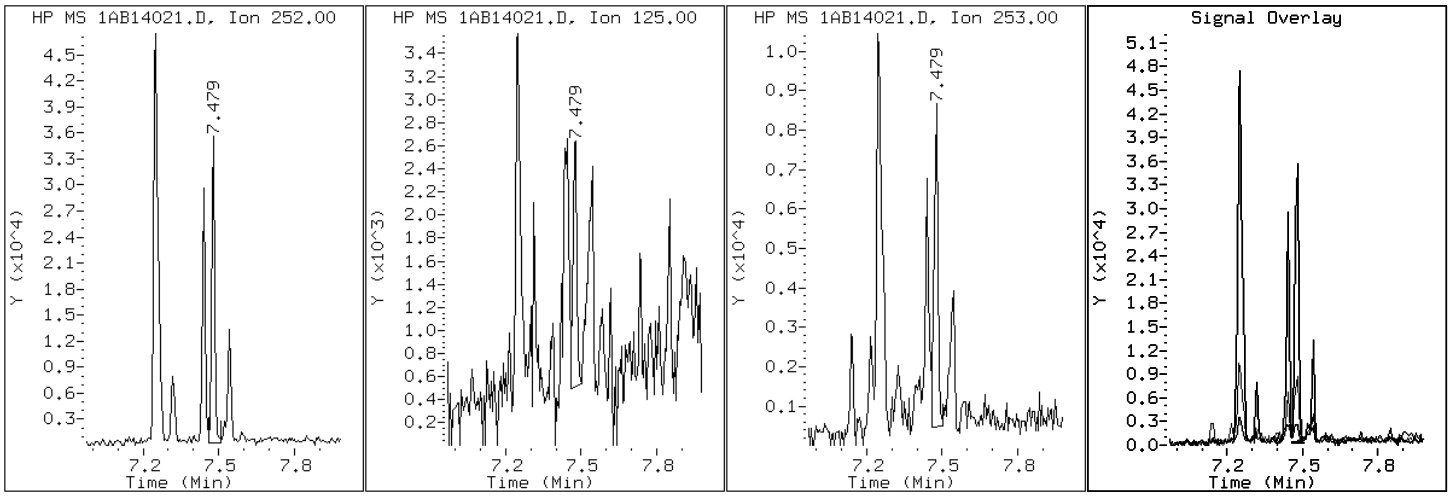
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

22 Benzo(a)pyrene



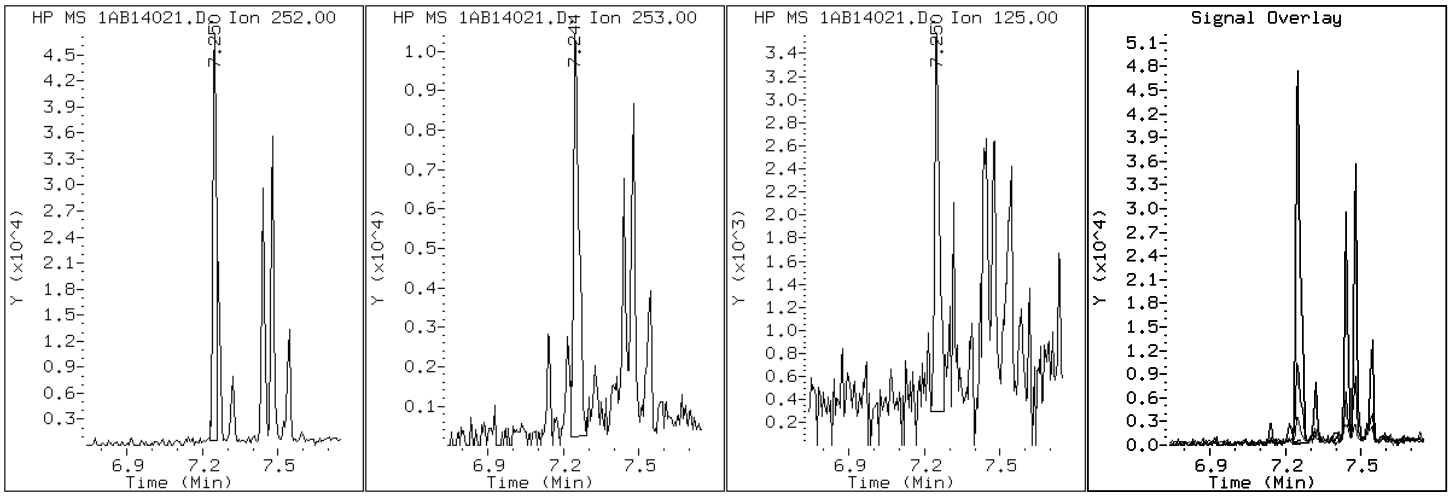
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

20 Benzo(b)fluoranthene



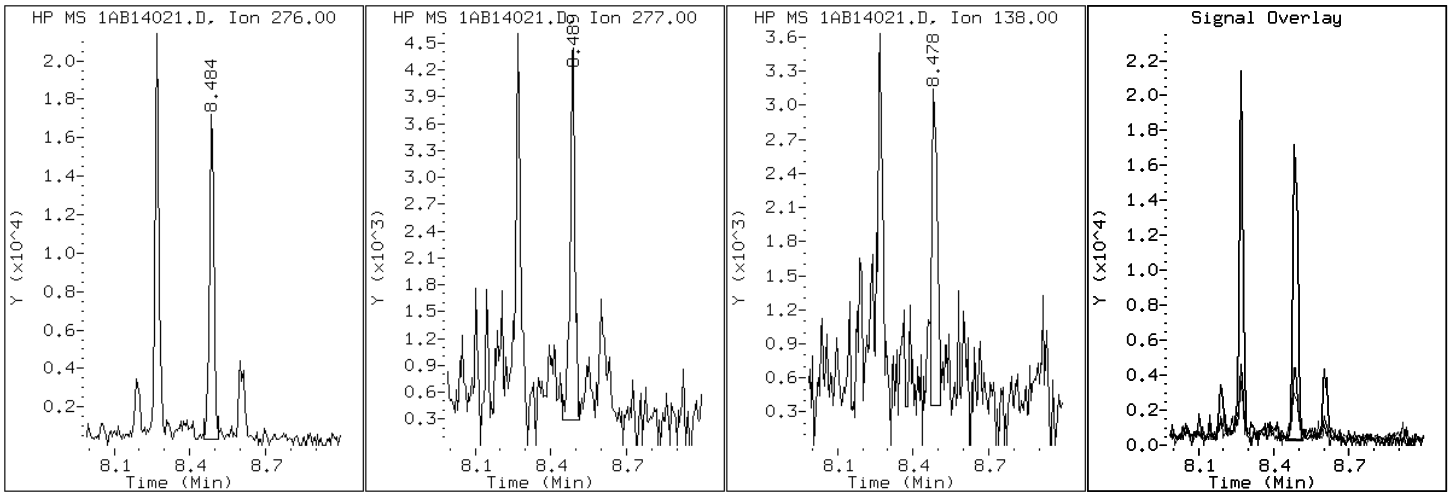
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

26 Benzo(g,h,i)perylene



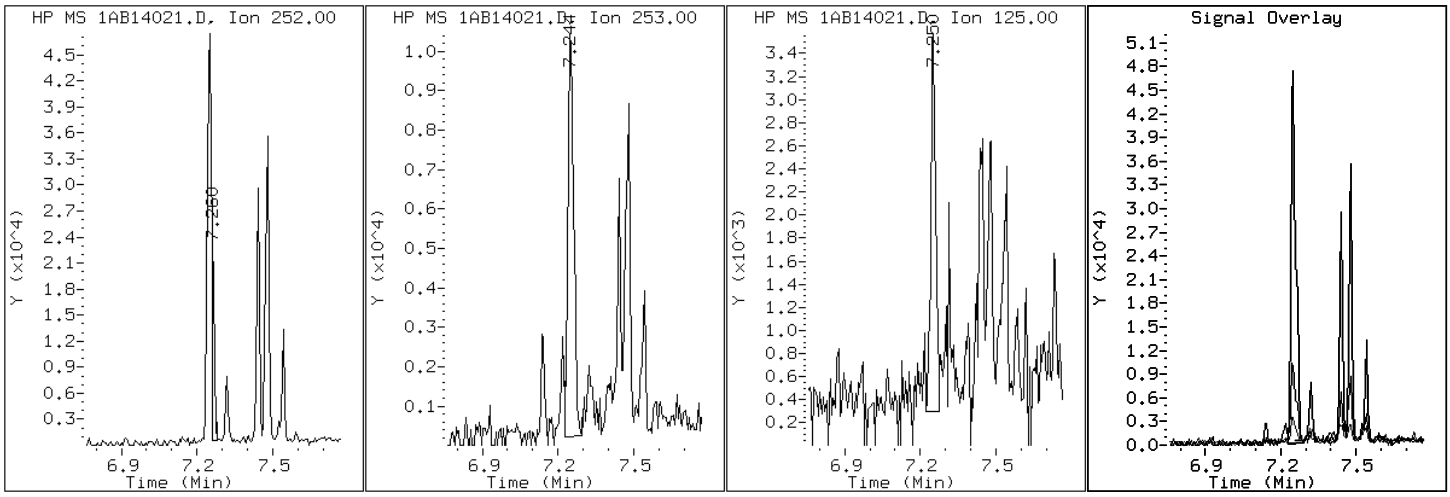
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

21 Benzo(k)fluoranthene



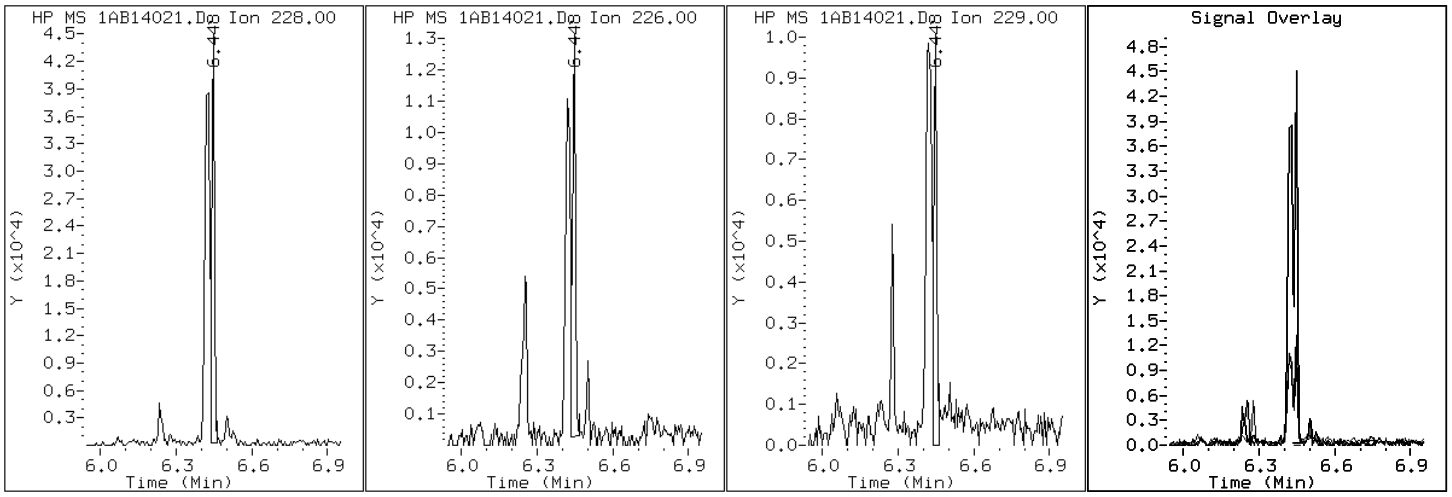
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

19 Chrysene



Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

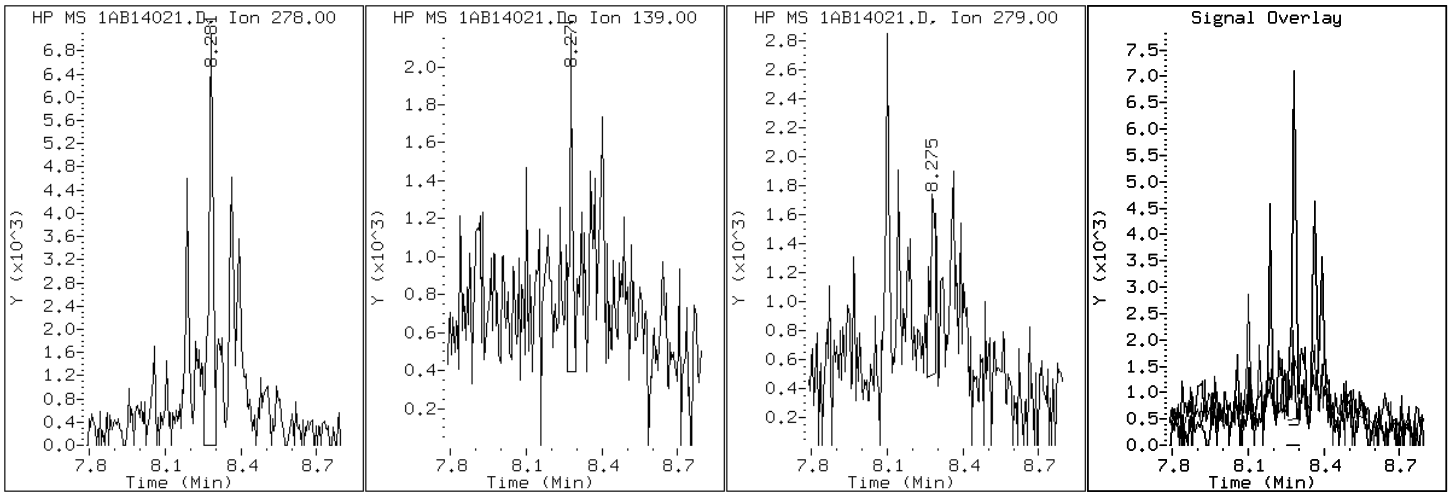
Client ID: CV0748U-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a

Operator: SCC

25 Dibenzo(a,h)anthracene



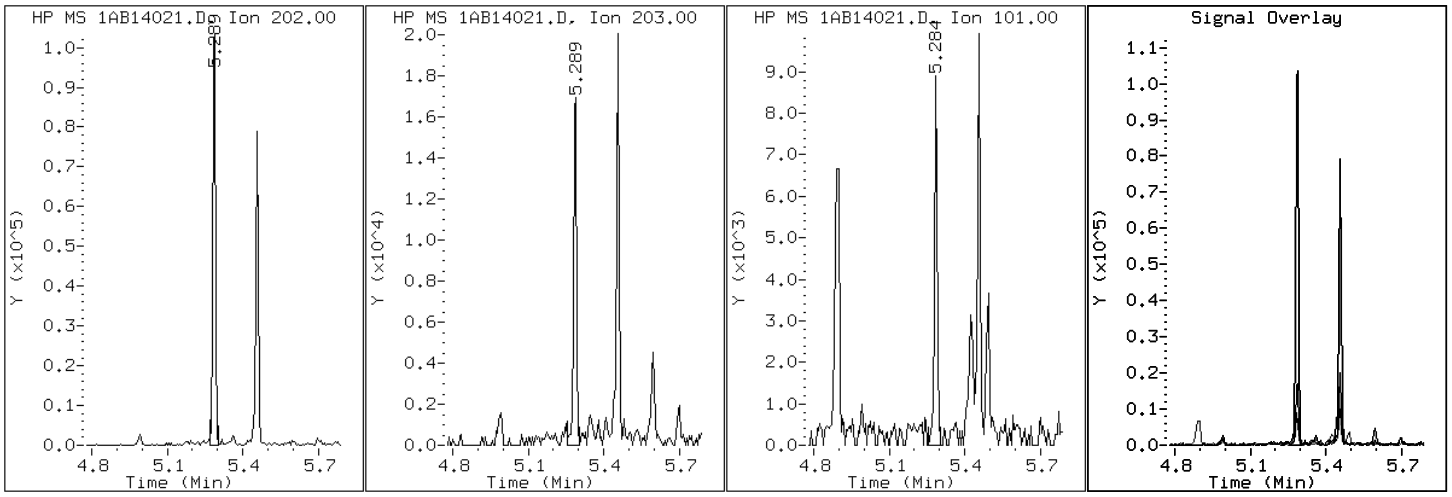
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

15 Fluoranthene



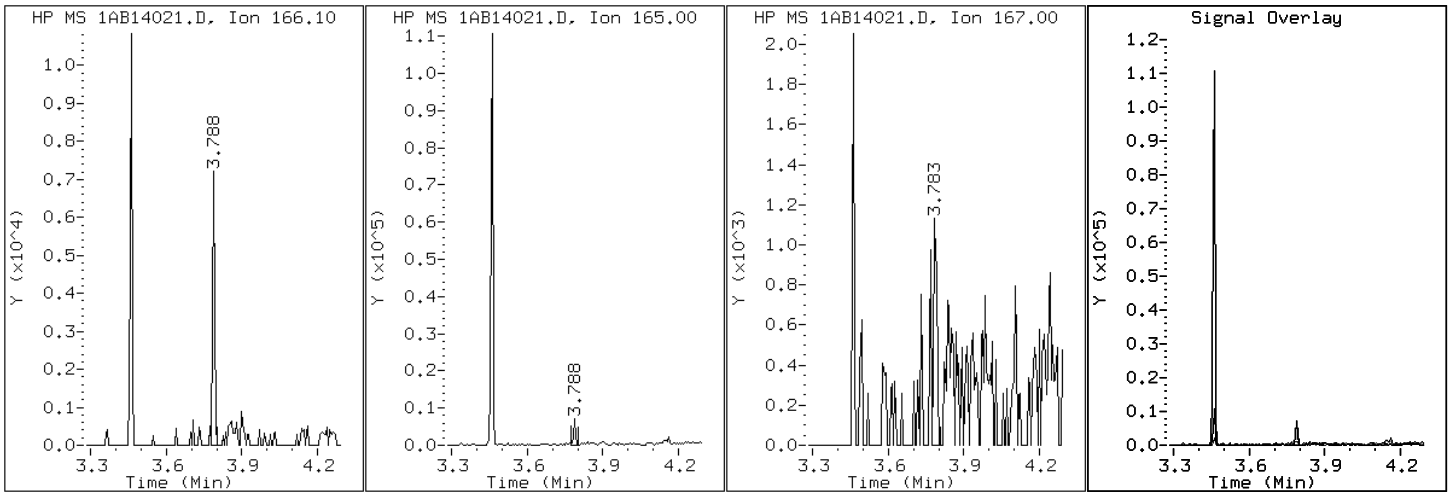
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

9 Fluorene



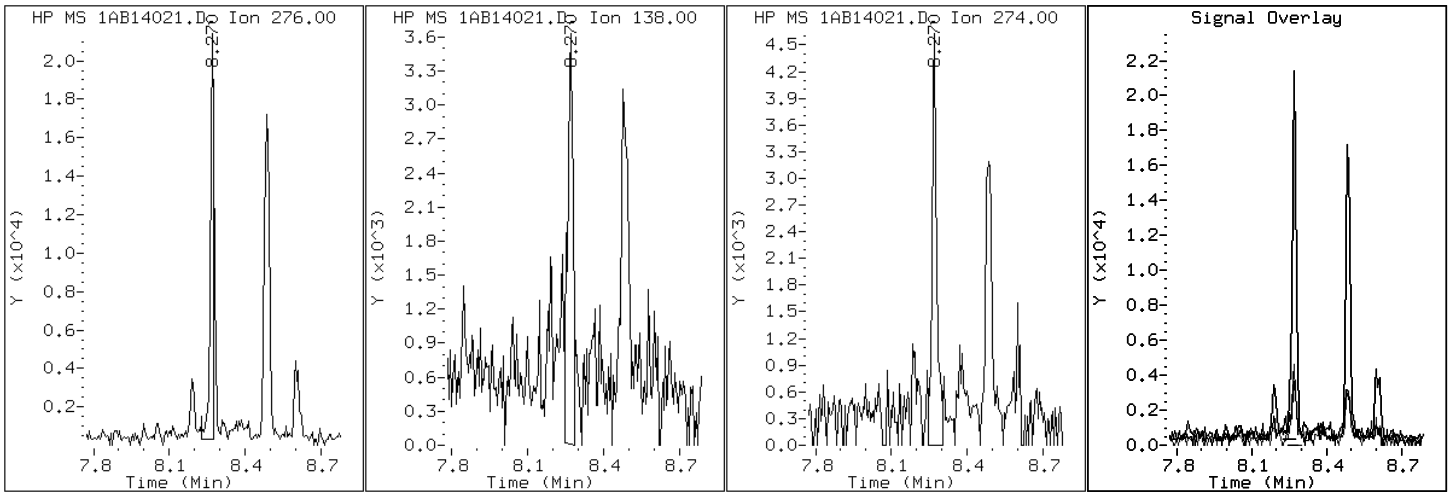
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

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



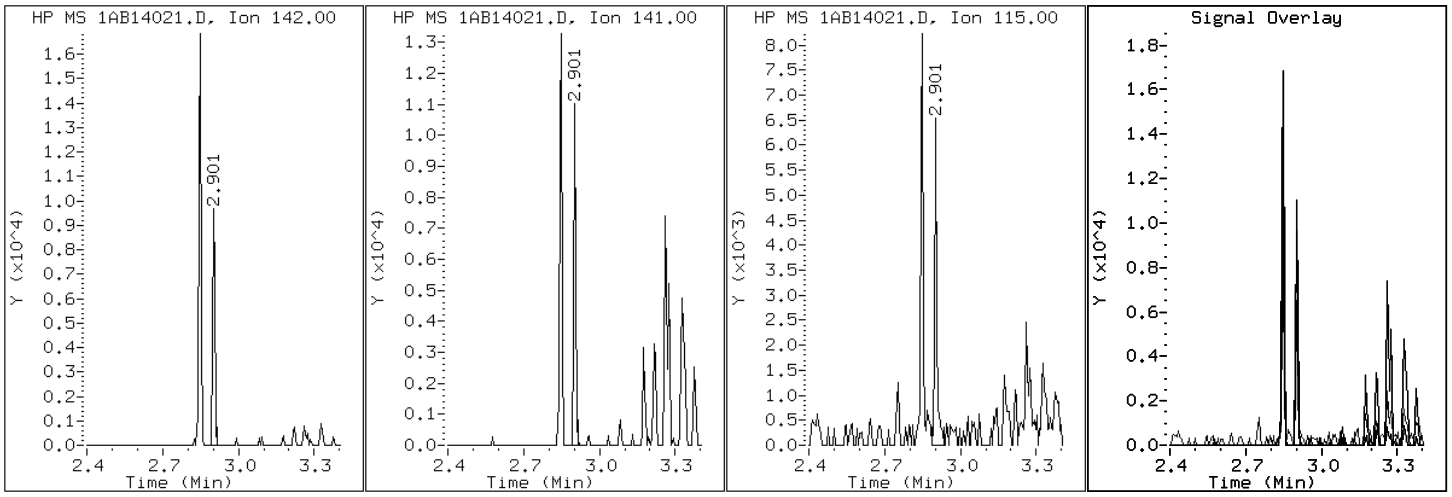
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

4 1-Methylnaphthalene



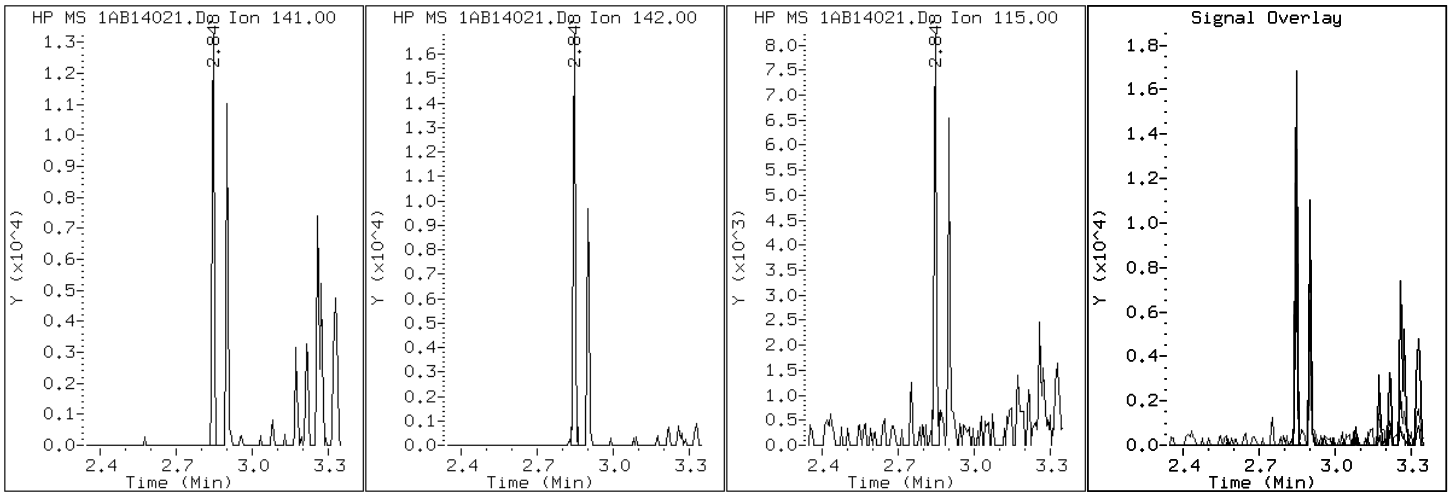
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

3 2-Methylnaphthalene



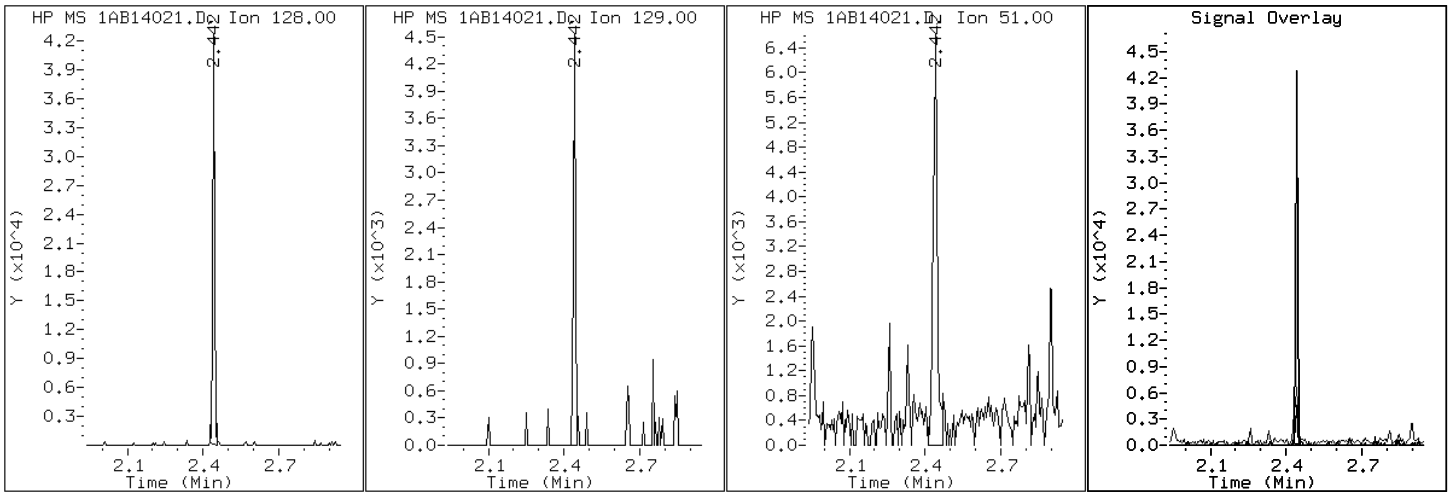
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

2 Naphthalene



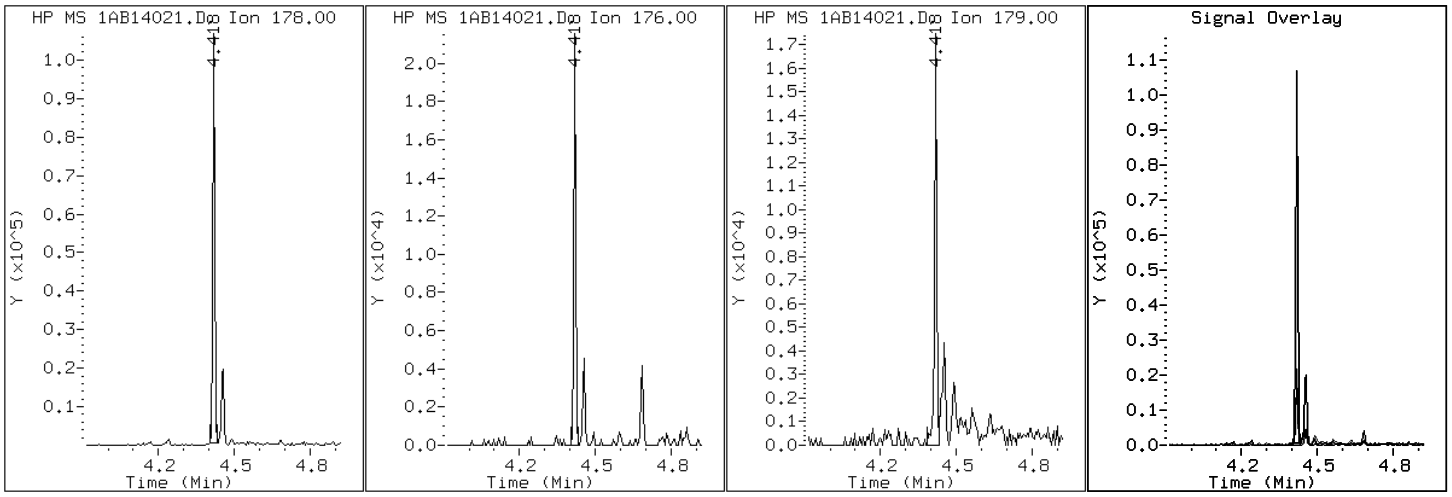
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

11 Phenanthrene



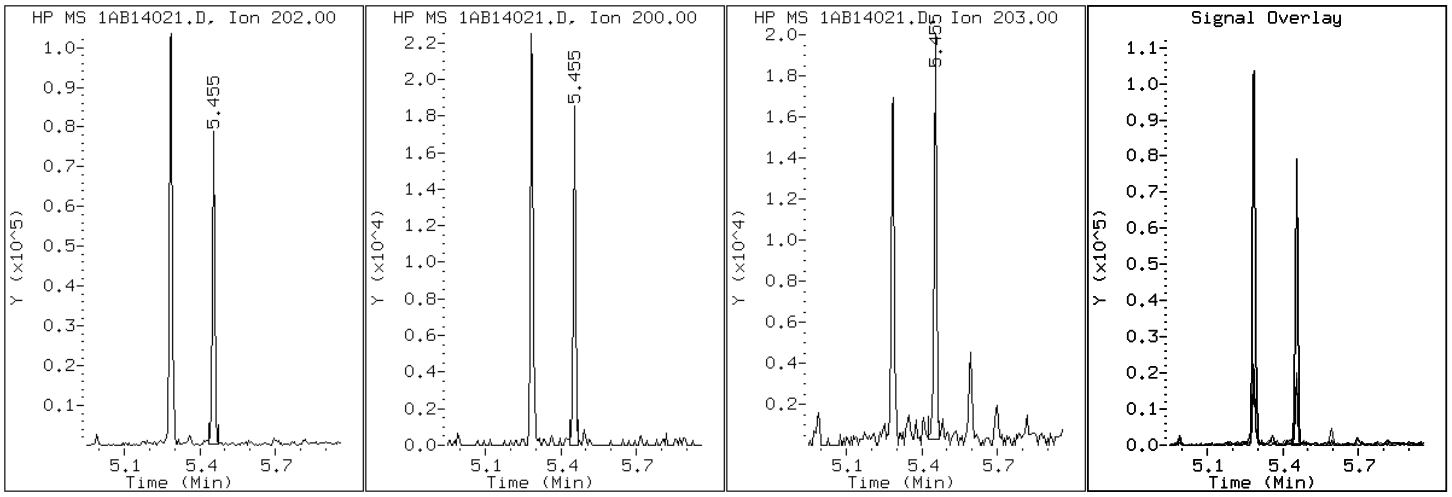
Data File: 1AB14021.D

Date: 14-FEB-2013 14:53

Client ID: CV0748U-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-33-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14021.D
Inj. Date and Time: 14-FEB-2013 14:53
Instrument ID: BSMA5973.i
Client ID: CV0748U-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

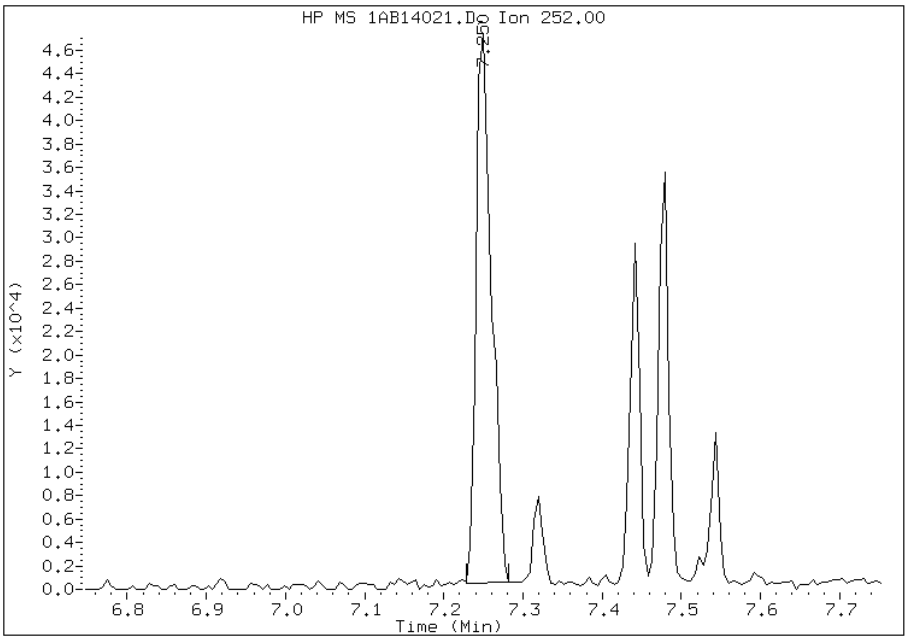
Processing Integration Results

RT: 7.25

Response: 62384

Amount: 4

Conc: 272



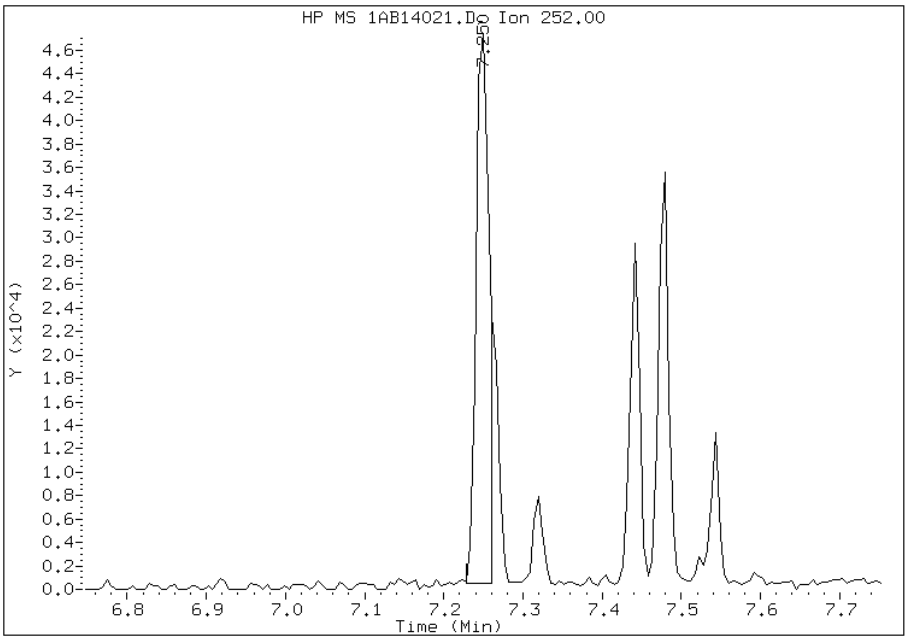
Manual Integration Results

RT: 7.25

Response: 53202

Amount: 3

Conc: 232



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14021.D
Inj. Date and Time: 14-FEB-2013 14:53
Instrument ID: BSMA5973.i
Client ID: CV0748U-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

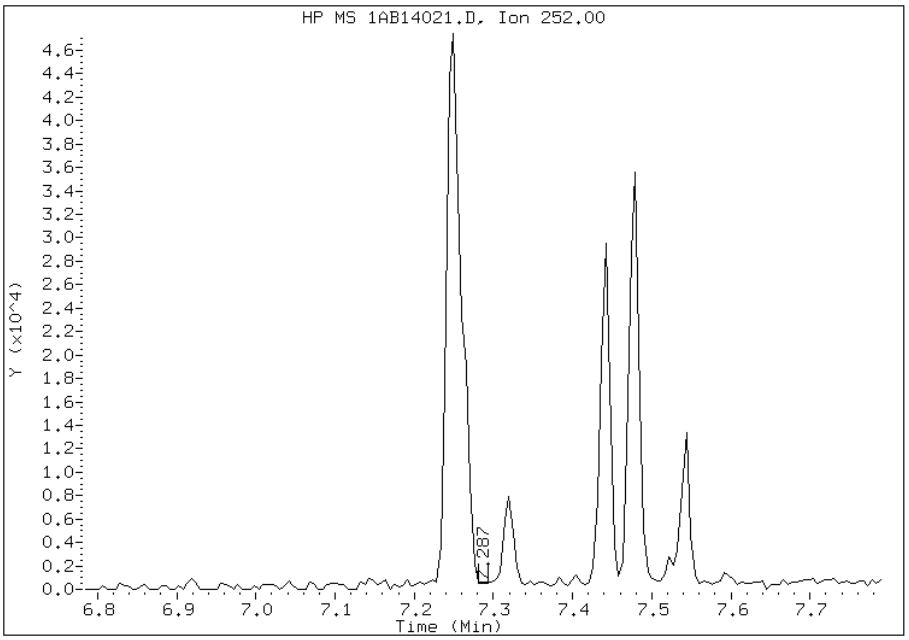
Processing Integration Results

RT: 7.29

Response: 47

Amount: 0

Conc: 0



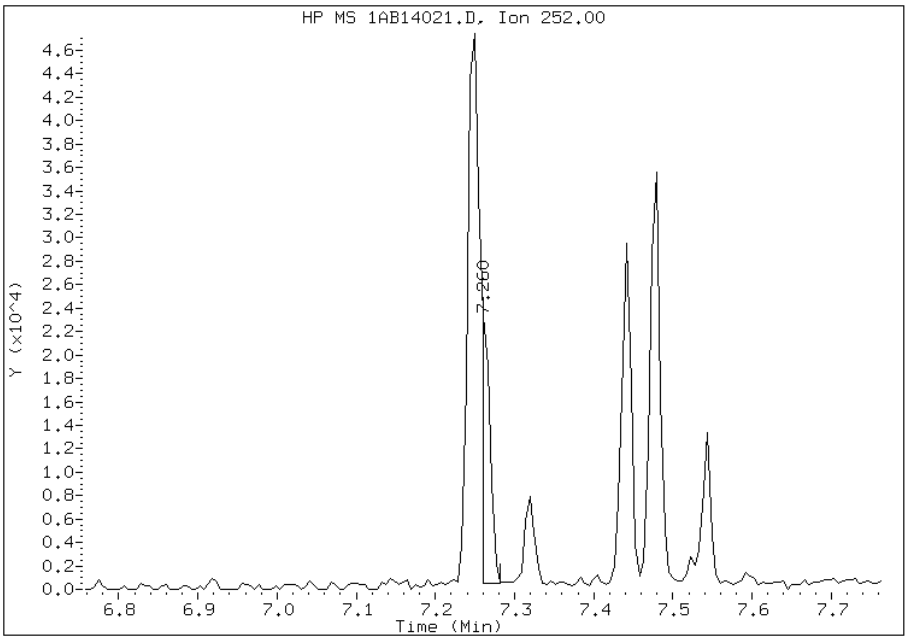
Manual Integration Results

RT: 7.26

Response: 16506

Amount: 1

Conc: 69



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14021.D
Inj. Date and Time: 14-FEB-2013 14:53
Instrument ID: BSMA5973.i
Client ID: CV0748U-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

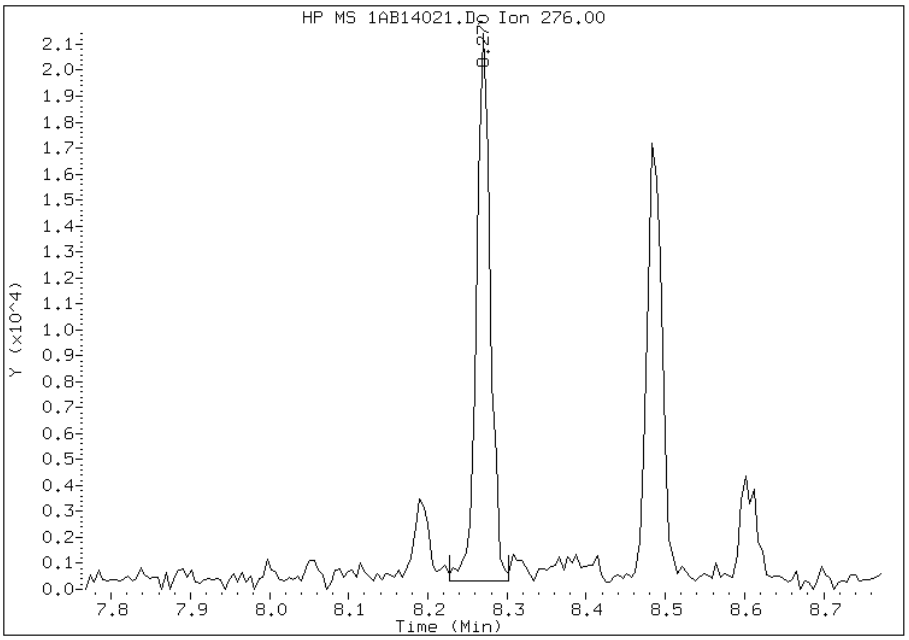
Processing Integration Results

RT: 8.27

Response: 25446

Amount: 2

Conc: 148



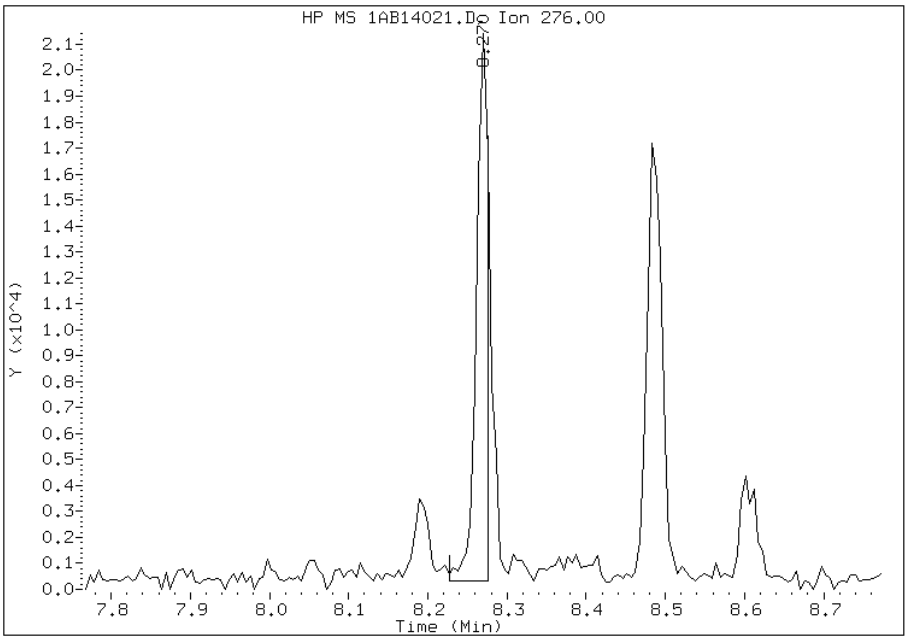
Manual Integration Results

RT: 8.27

Response: 20975

Amount: 2

Conc: 122



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748V-CS | Lab Sample ID: 680-87218-34

Matrix: Solid | Lab File ID: 1AB14022.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 15:30

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.06(g) | Date Analyzed: 02/14/2013 15:08

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

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

% Moisture: 21.7 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	51	U	51	6.4
120-12-7	Anthracene	8.9	J	11	5.3
56-55-3	Benzo[a]anthracene	42		10	5.0
50-32-8	Benzo[a]pyrene	33		13	6.6
205-99-2	Benzo[b]fluoranthene	41		16	7.8
191-24-2	Benzo[g,h,i]perylene	30		25	5.6
207-08-9	Benzo[k]fluoranthene	22		10	4.6
218-01-9	Chrysene	34		11	5.7
53-70-3	Dibenz(a,h)anthracene	15	J	25	5.2
206-44-0	Fluoranthene	45		25	5.1
86-73-7	Fluorene	25	U	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	33		25	9.0
90-12-0	1-Methylnaphthalene	8.1	J	51	5.6
91-57-6	2-Methylnaphthalene	12	J	51	9.0
91-20-3	Naphthalene	11	J	51	5.6
85-01-8	Phenanthrene	28		10	5.0
129-00-0	Pyrene	41		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14022.D
Lab Smp Id: 680-87218-A-34-A Client Smp ID: CV0748V-CS
Inj Date : 14-FEB-2013 15:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-34-a
Misc Info : 680-87218-A-34-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 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	15.060	Weight Extracted
M	21.705	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.431	2.430	(1.000)	881188	40.0000	
* 6 Acenaphthene-d10	164	3.462	3.461	(1.000)	561617	40.0000	
* 10 Phenanthrene-d10	188	4.408	4.402	(1.000)	746490	40.0000	
$ 14 o-Terphenyl	230	4.685	4.685	(1.063)	91792	8.46251	717.6995
* 18 Chrysene-d12	240	6.432	6.426	(1.000)	532581	40.0000	
* 23 Perylene-d12	264	7.533	7.527	(1.000)	579668	40.0000	
2 Naphthalene	128	2.442	2.441	(1.004)	2782	0.13007	11.0311(Q)
3 2-Methylnaphthalene	141	2.848	2.847	(1.171)	1578	0.13772	11.6797
4 1-Methylnaphthalene	142	2.901	2.900	(1.193)	1238	0.09545	8.0947(Q)
11 Phenanthrene	178	4.418	4.418	(1.002)	6668	0.32715	27.7449
12 Anthracene	178	4.456	4.455	(1.011)	2176	0.10471	8.8804
15 Fluoranthene	202	5.289	5.283	(1.200)	10812	0.53504	45.3762
16 Pyrene	202	5.455	5.454	(0.848)	9208	0.47873	40.6009
17 Benzo(a)anthracene	228	6.427	6.416	(0.999)	7921	0.49811	42.2442

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.448	6.448	(1.002)	6292	0.40593	34.4267
20 Benzo(b)fluoranthene	252	7.250	7.244	(0.962)	7910	0.48892	41.4645(M)
21 Benzo(k)fluoranthene	252	7.255	7.265	(0.963)	4432	0.26201	22.2209(M)
22 Benzo(a)pyrene	252	7.479	7.479	(0.993)	6007	0.39099	33.1597
24 Indeno(1,2,3-cd)pyrene	276	8.270	8.275	(1.098)	4699	0.38734	32.8500(M)
25 Dibenzo(a,h)anthracene	278	8.281	8.291	(1.099)	2161	0.17818	15.1116(M)
26 Benzo(g,h,i)perylene	276	8.489	8.494	(1.127)	4415	0.35128	29.7921

QC Flag Legend

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

Data File: 1AB14022.D

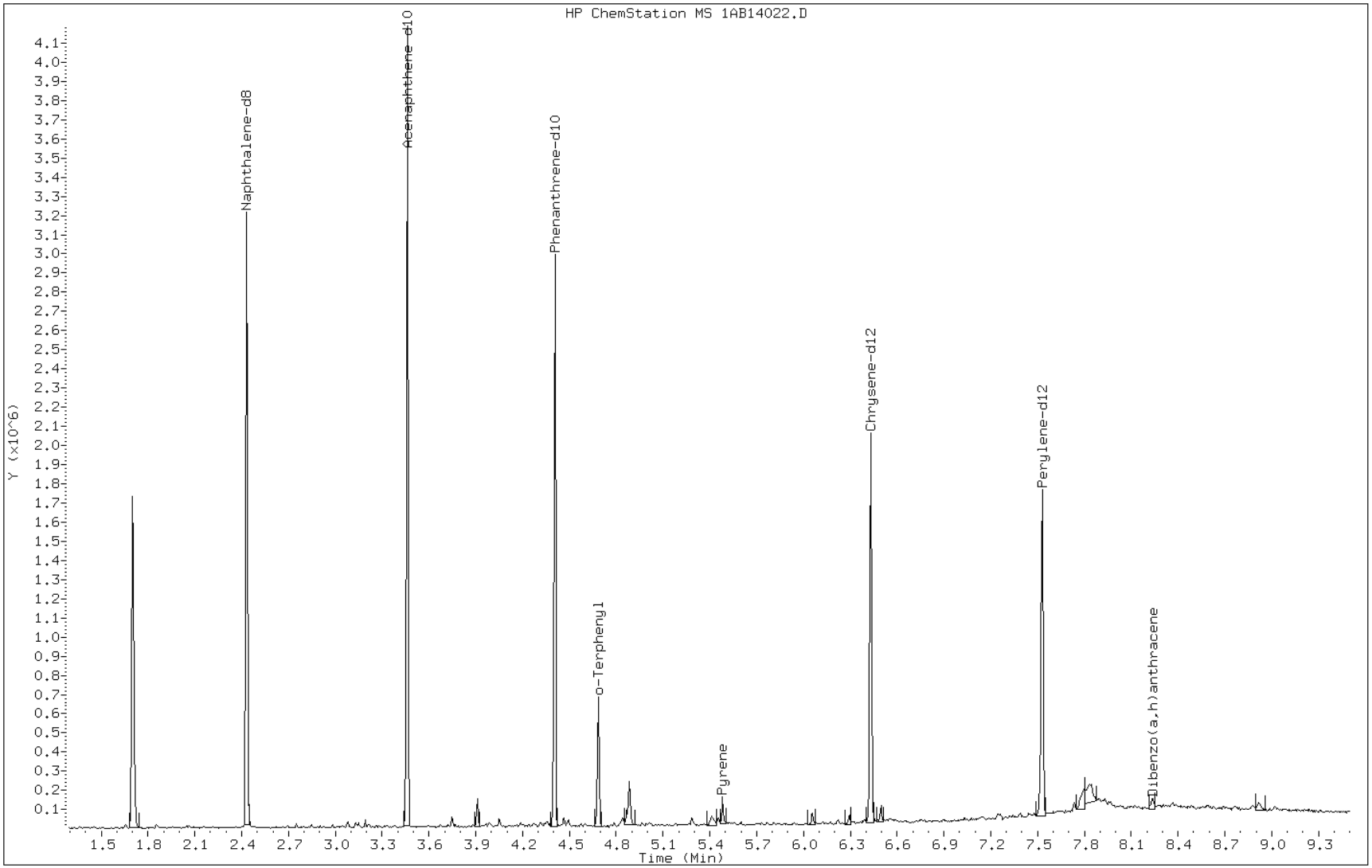
Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a

Operator: SCC



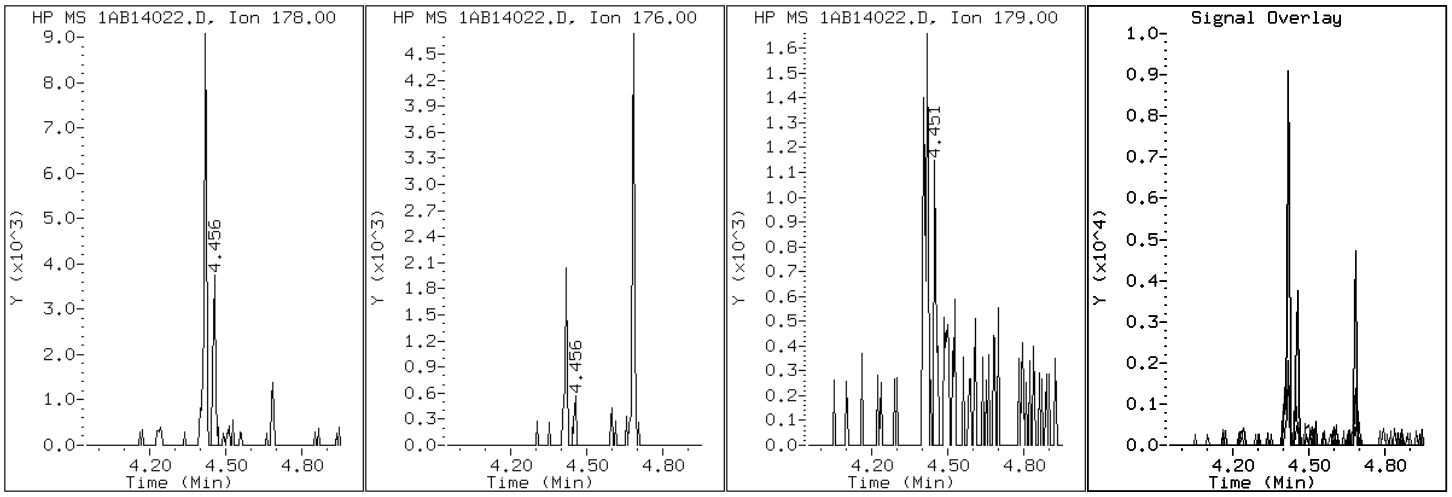
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

12 Anthracene



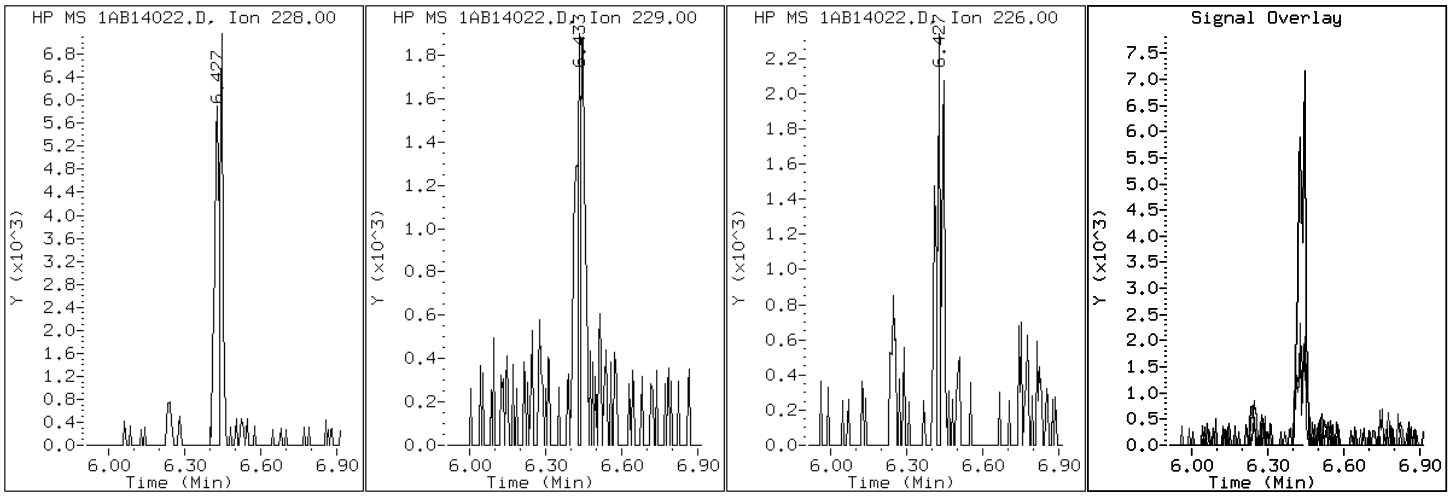
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

17 Benzo(a)anthracene



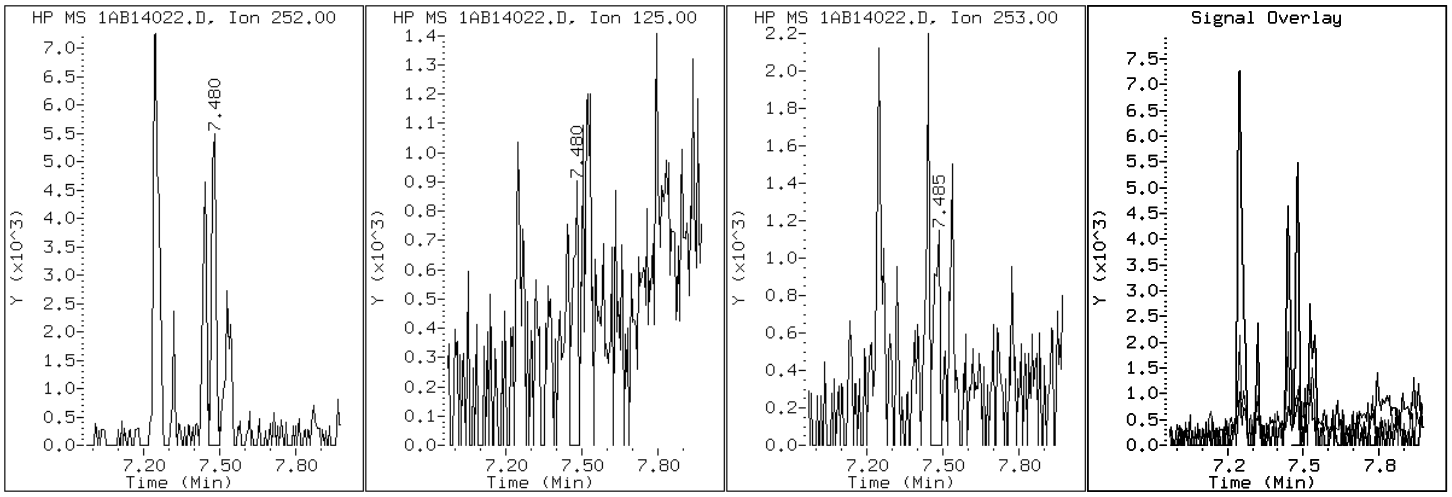
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

22 Benzo(a)pyrene



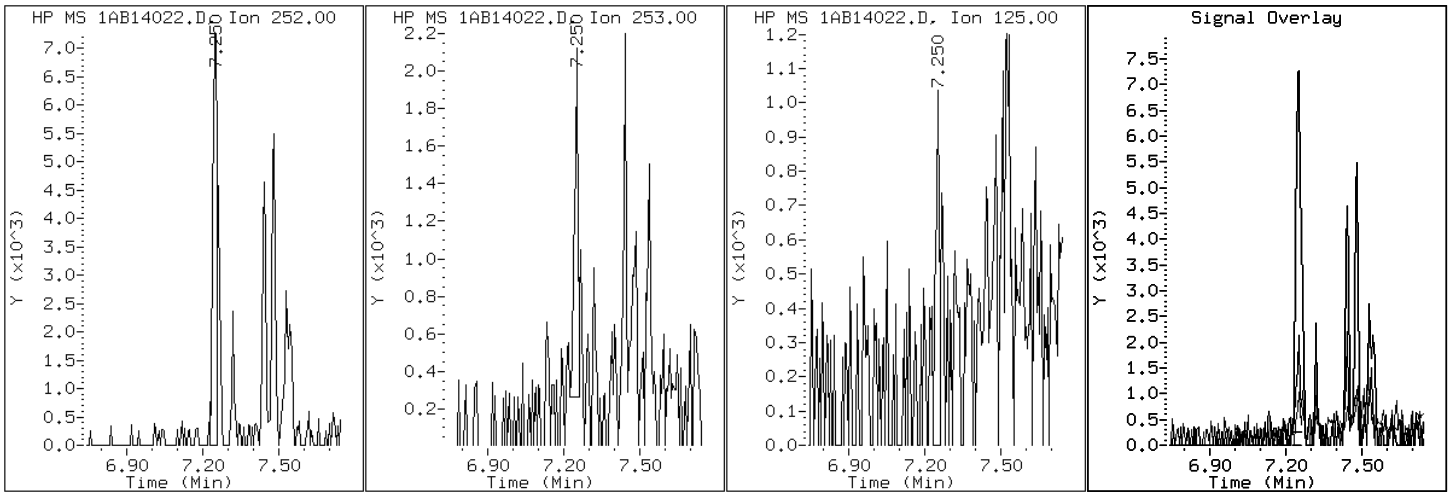
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

20 Benzo(b)fluoranthene



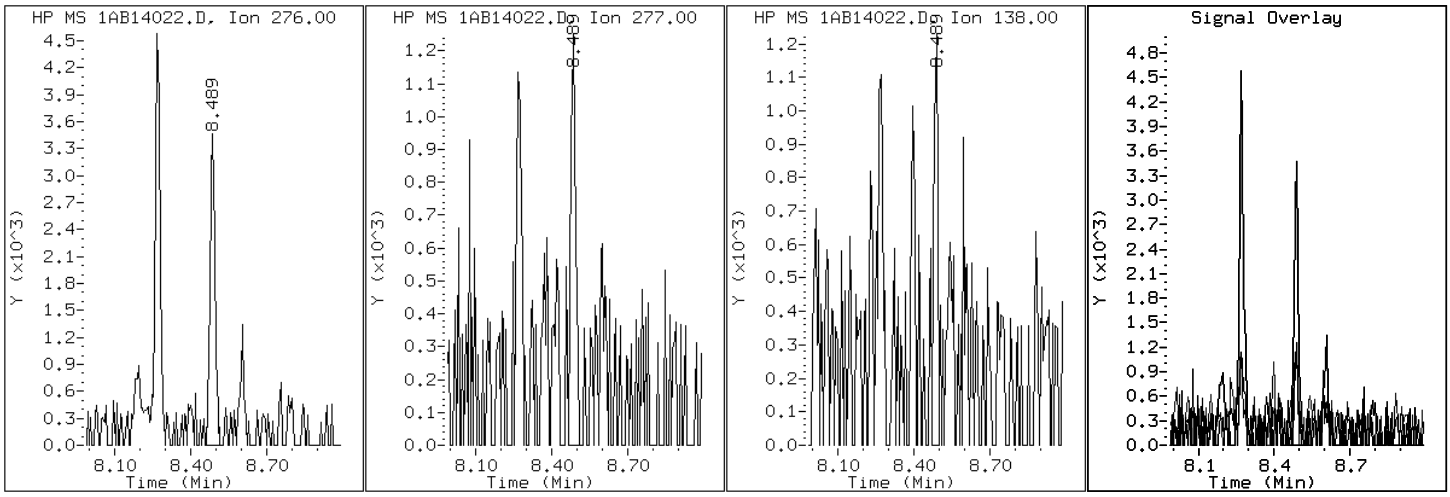
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

26 Benzo(g,h,i)perylene



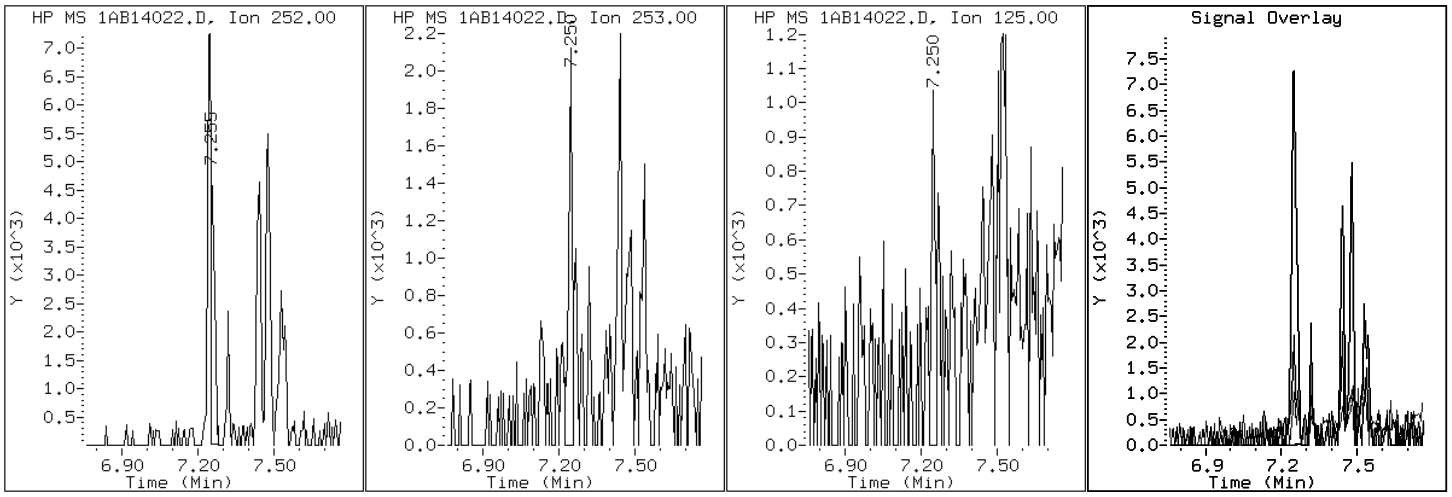
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

21 Benzo(k)fluoranthene



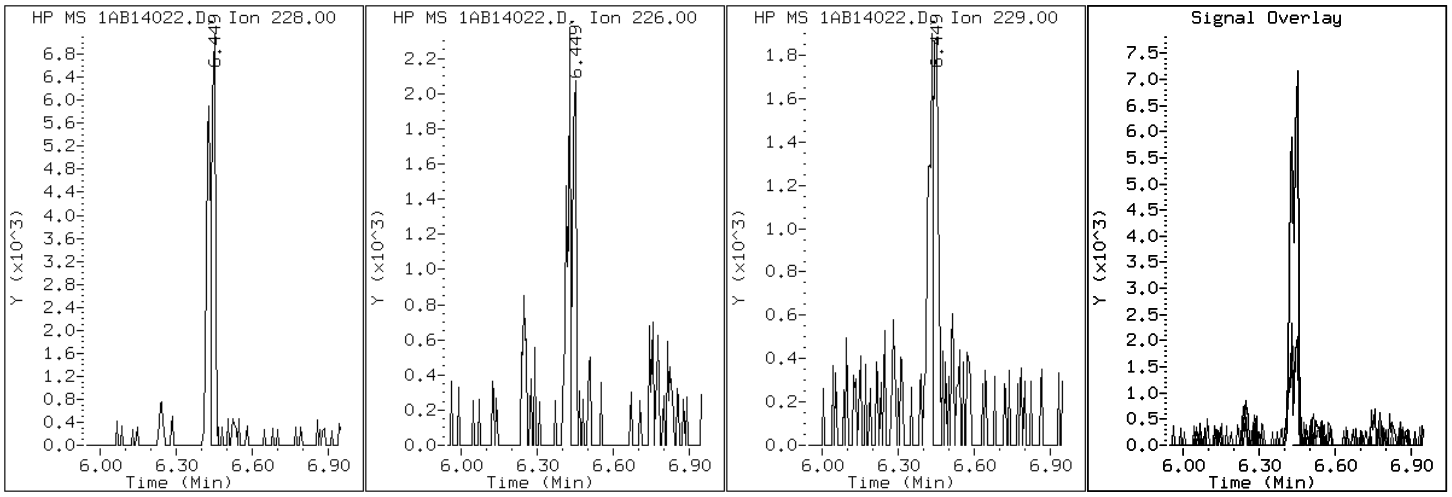
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

19 Chrysene



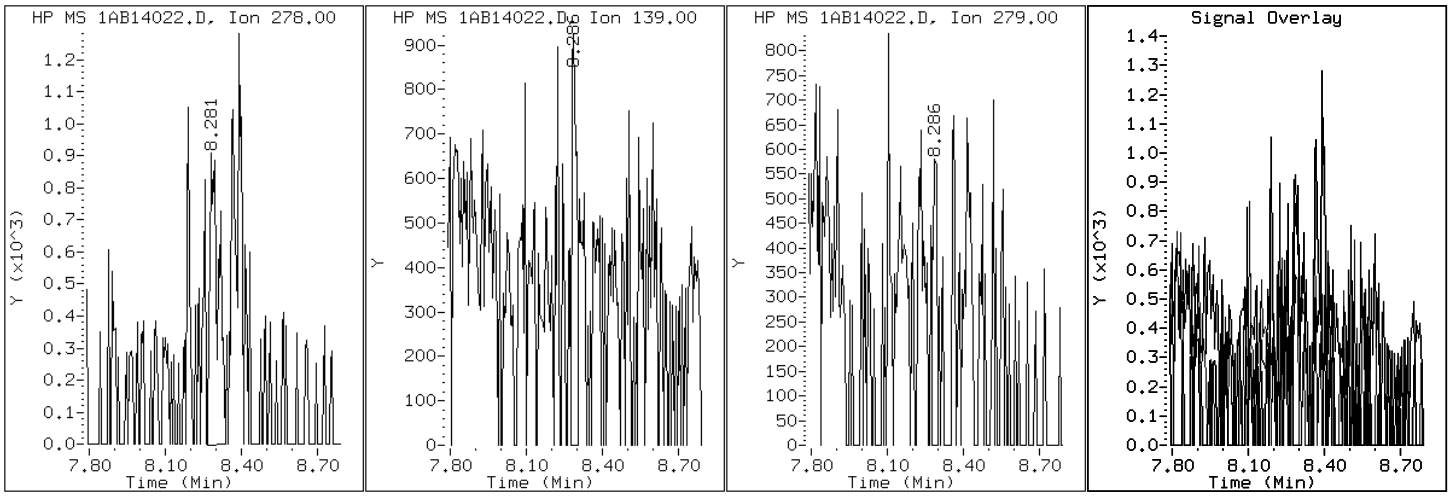
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

25 Dibenzo(a,h)anthracene



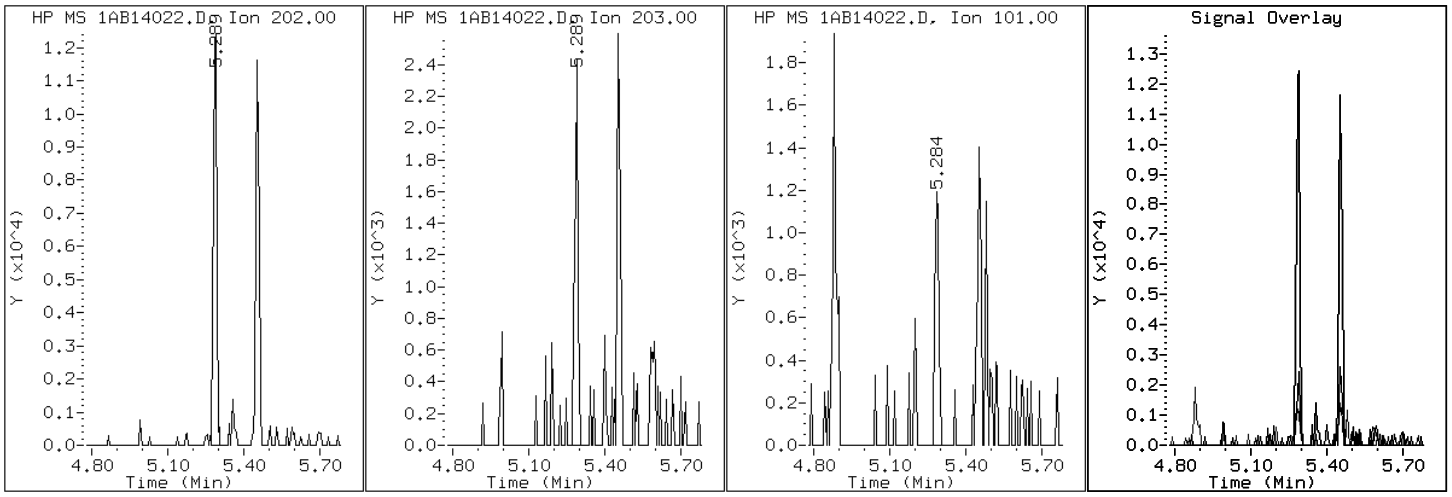
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

15 Fluoranthene



Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

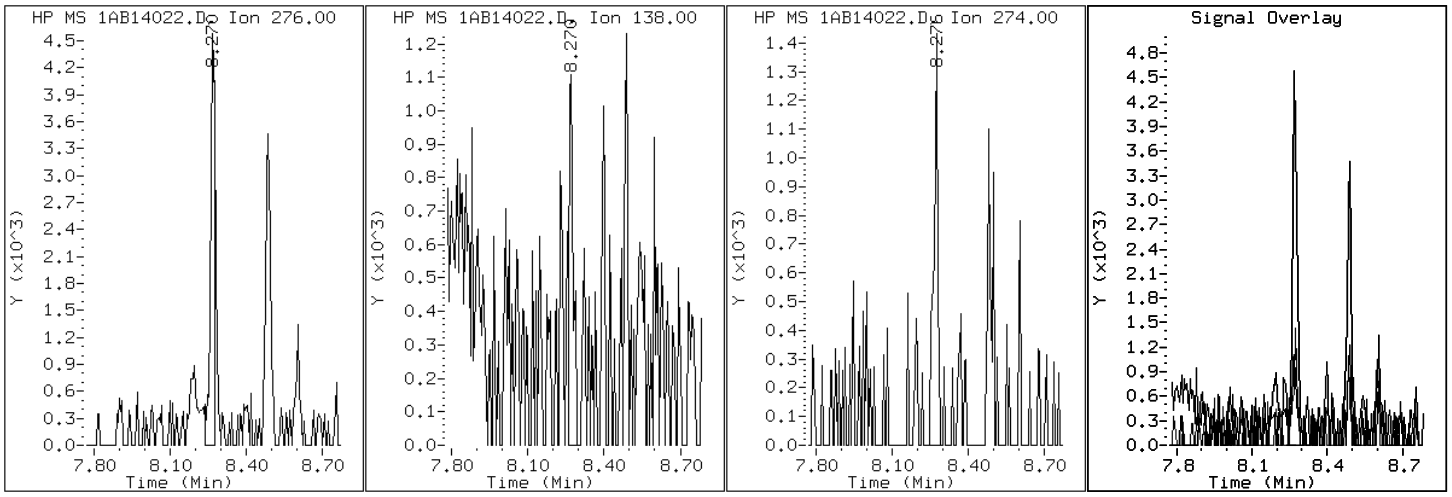
Client ID: CV0748V-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a

Operator: SCC

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



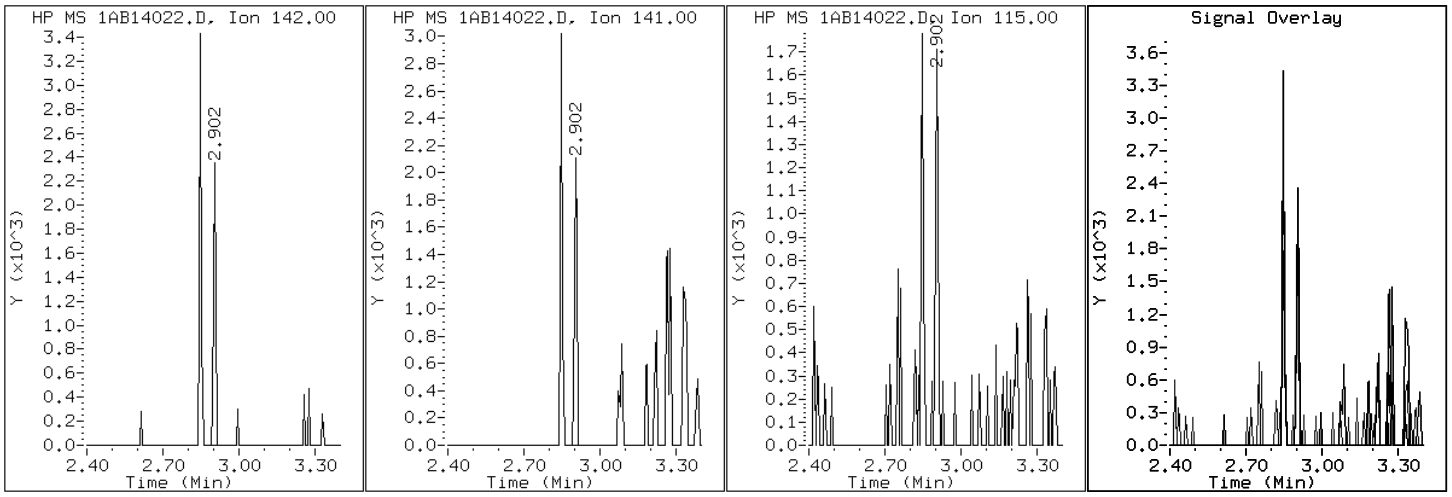
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

4 1-Methylnaphthalene



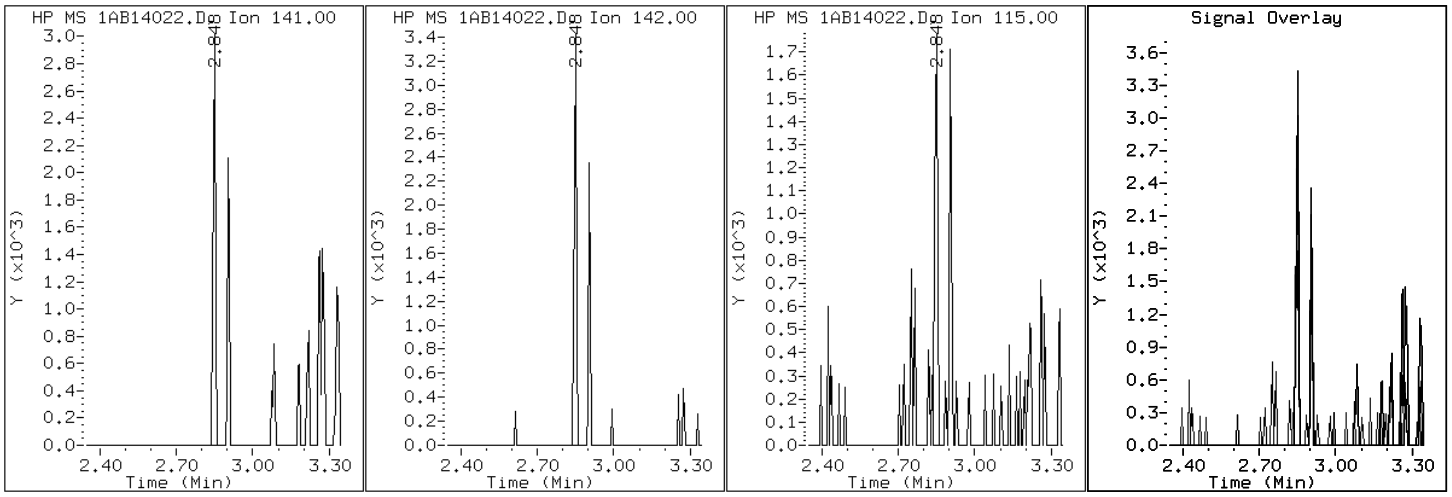
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

3 2-Methylnaphthalene



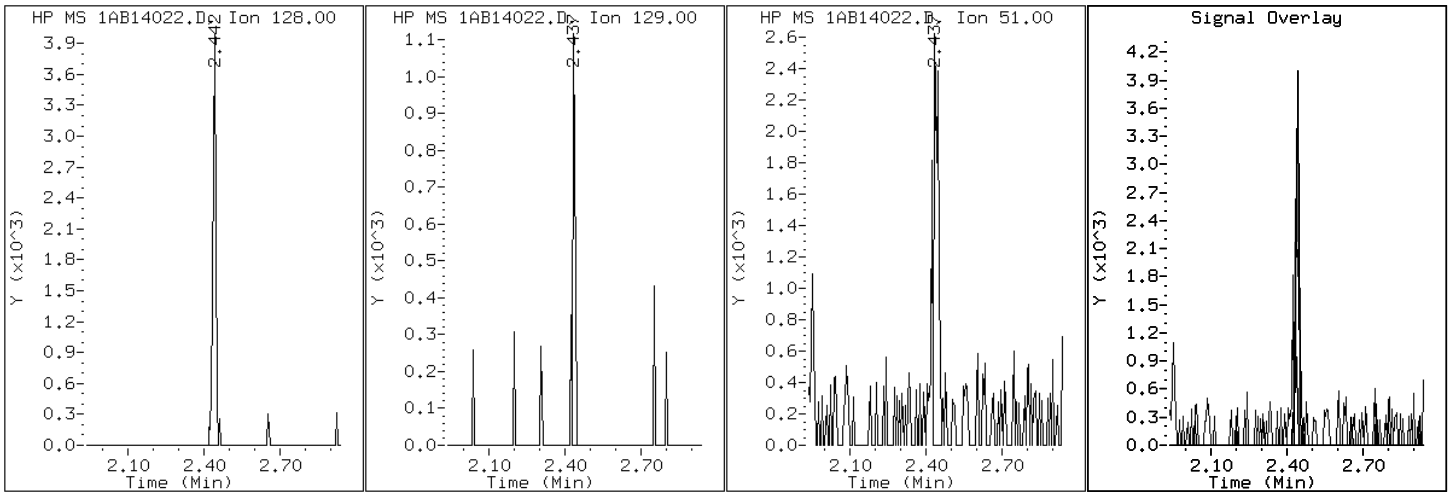
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

2 Naphthalene



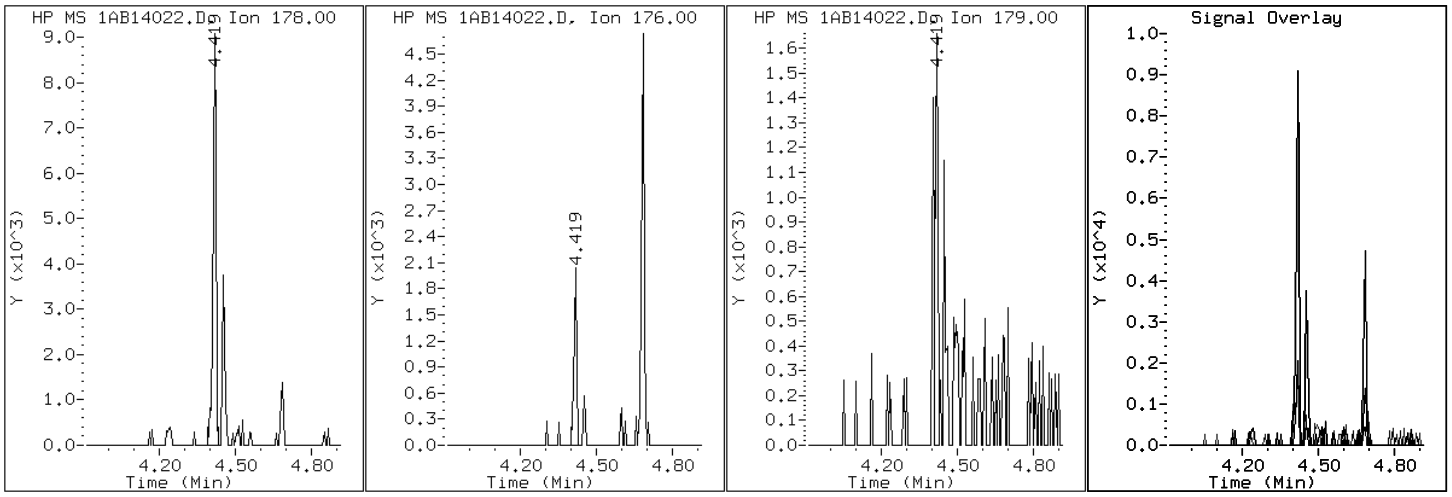
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

11 Phenanthrene



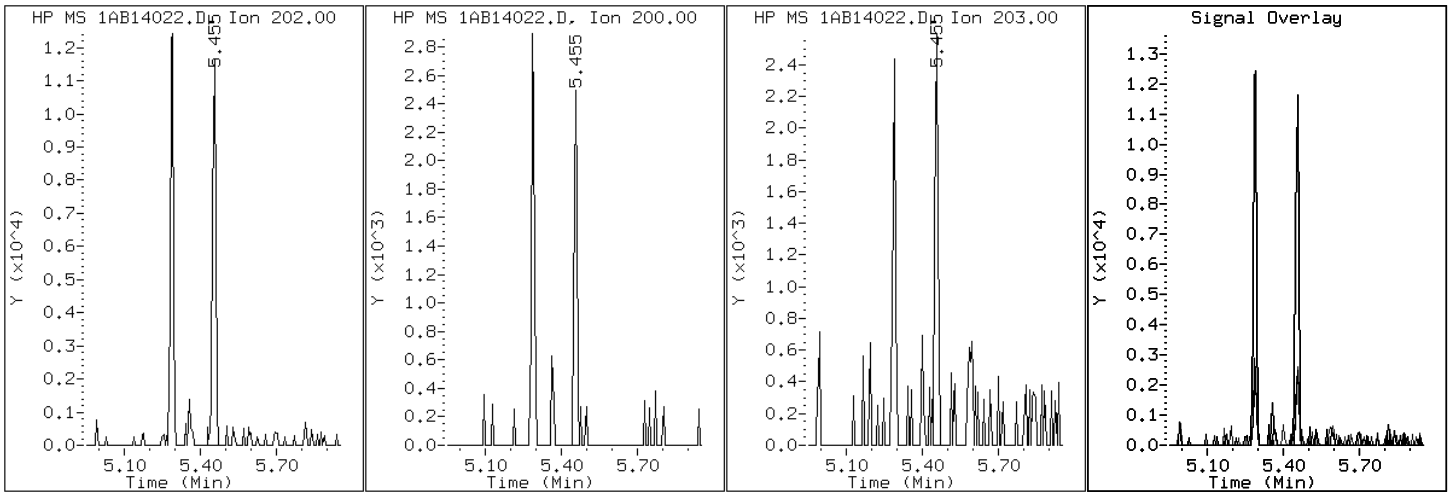
Data File: 1AB14022.D

Date: 14-FEB-2013 15:08

Client ID: CV0748V-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-34-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14022.D
Inj. Date and Time: 14-FEB-2013 15:08
Instrument ID: BSMA5973.i
Client ID: CV0748V-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

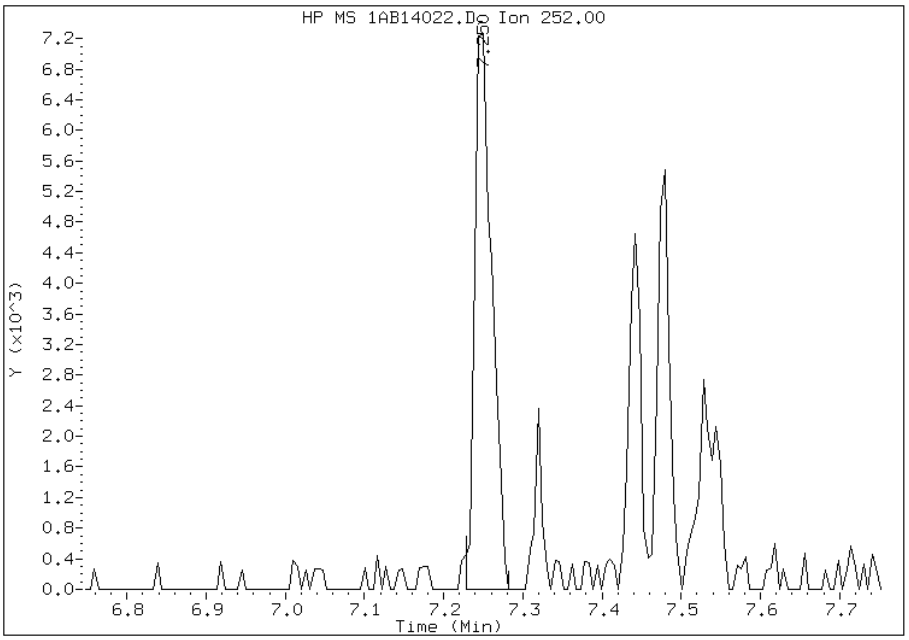
Processing Integration Results

RT: 7.25

Response: 10834

Amount: 1

Conc: 57



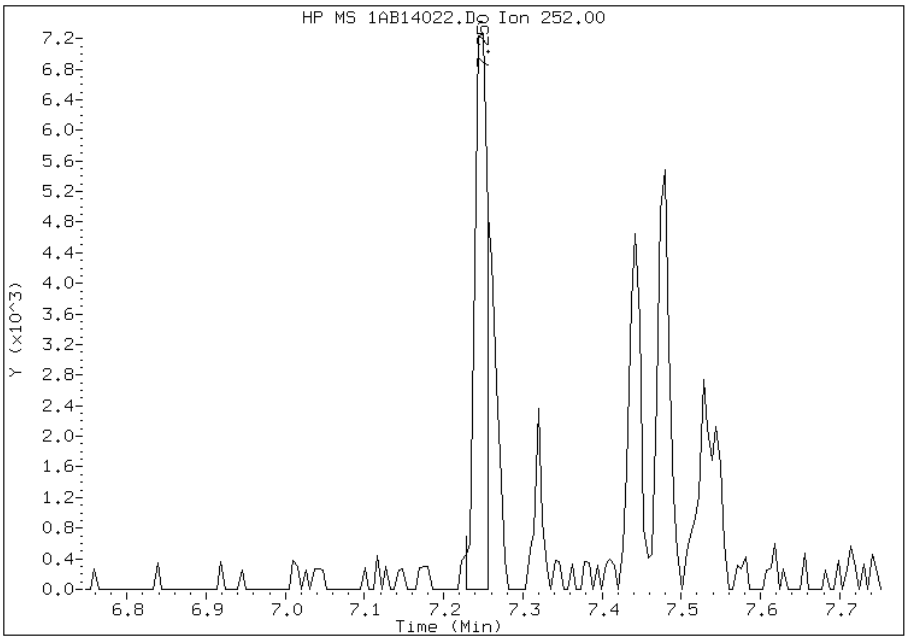
Manual Integration Results

RT: 7.25

Response: 7910

Amount: 0

Conc: 41



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14022.D
Inj. Date and Time: 14-FEB-2013 15:08
Instrument ID: BSMA5973.i
Client ID: CV0748V-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

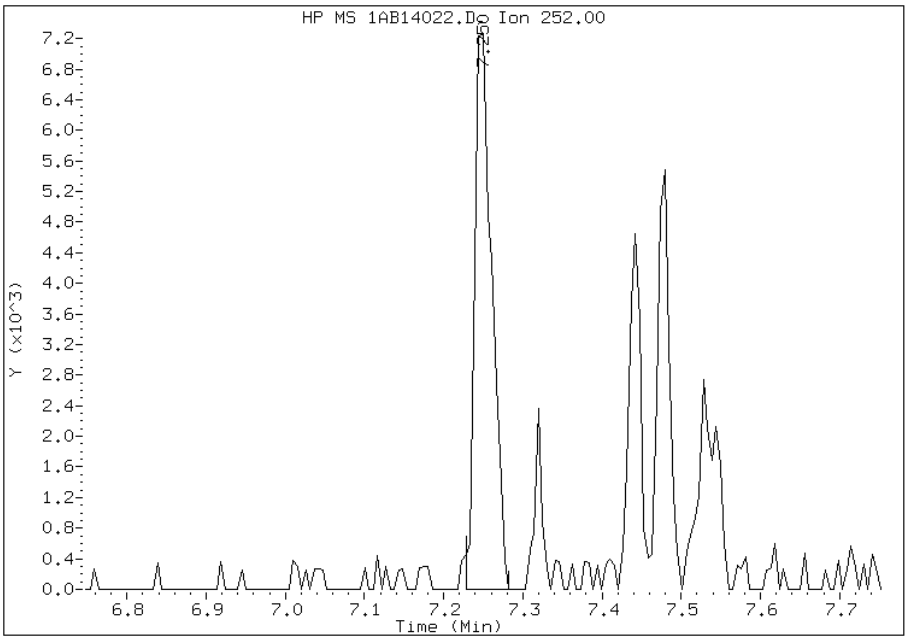
Processing Integration Results

RT: 7.25

Response: 10834

Amount: 1

Conc: 54



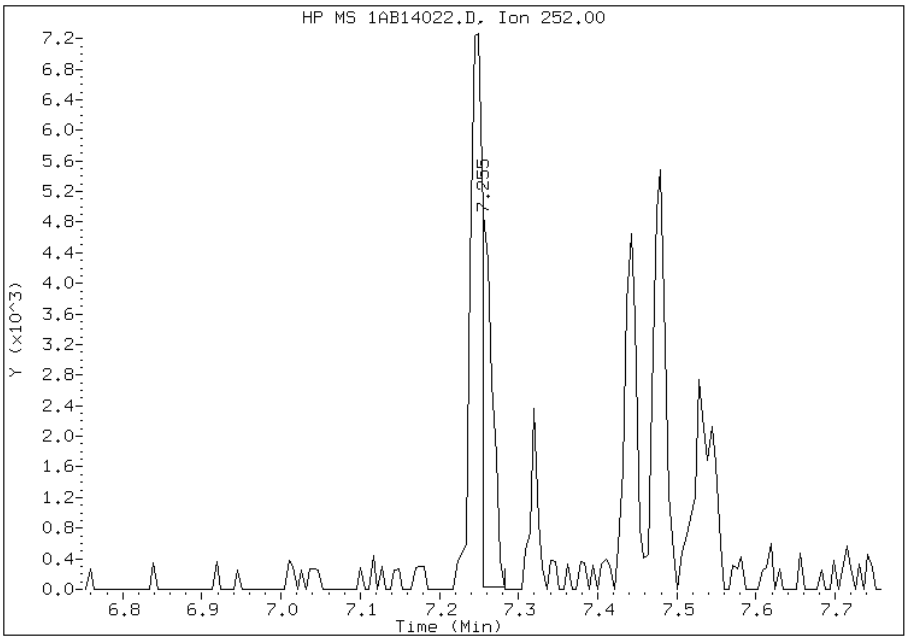
Manual Integration Results

RT: 7.26

Response: 4432

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14022.D
Inj. Date and Time: 14-FEB-2013 15:08
Instrument ID: BSMA5973.i
Client ID: CV0748V-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/15/2013

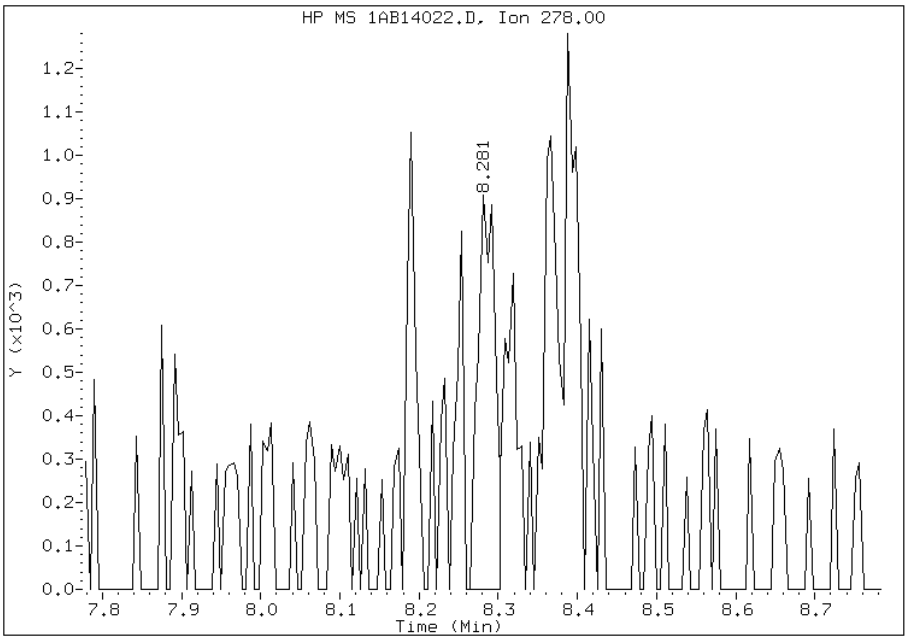
Processing Integration Results

RT: 8.28

Response: 1363

Amount: 0

Conc: 10



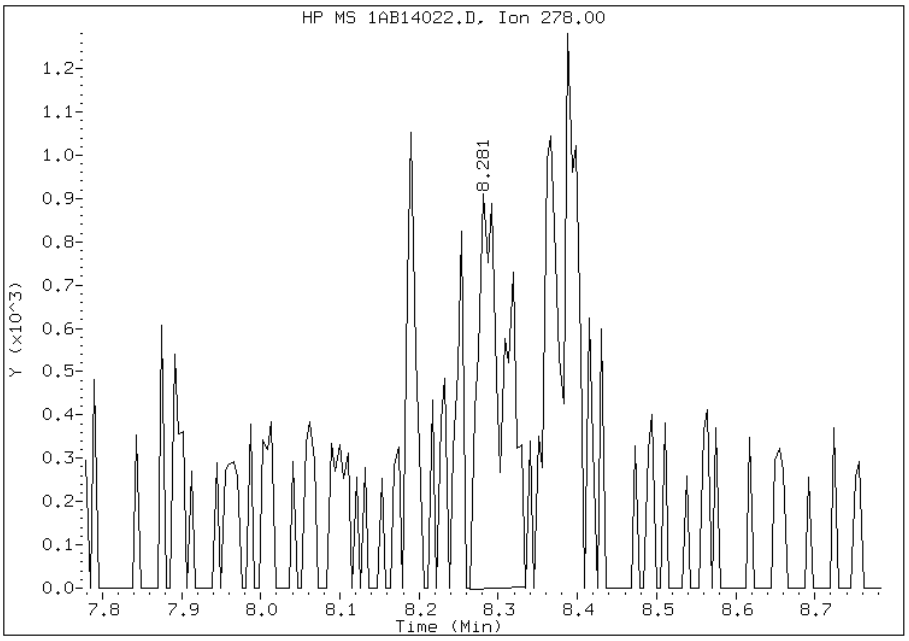
Manual Integration Results

RT: 8.28

Response: 2161

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14022.D
Inj. Date and Time: 14-FEB-2013 15:08
Instrument ID: BSMA5973.i
Client ID: CV0748V-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

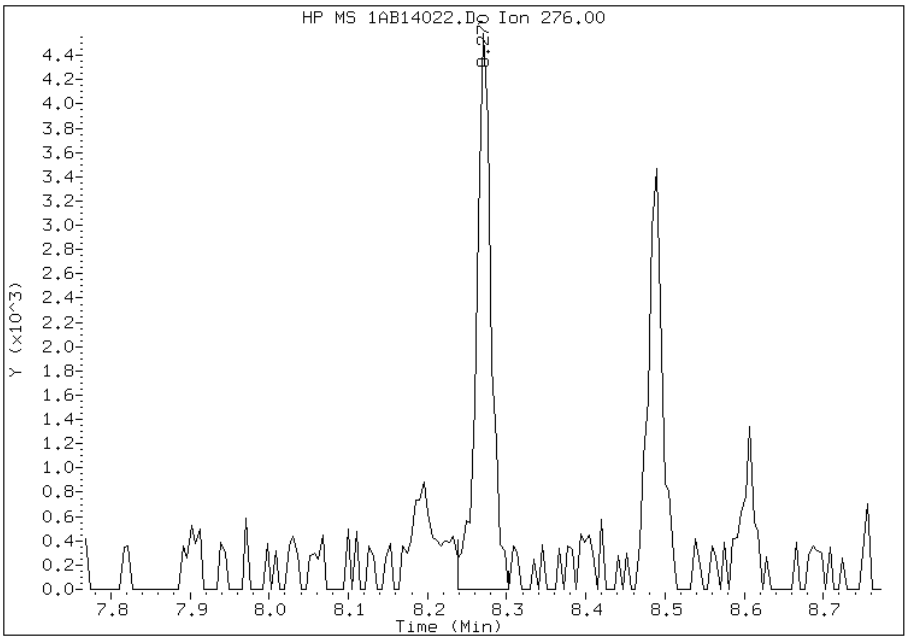
Processing Integration Results

RT: 8.27

Response: 5890

Amount: 0

Conc: 41



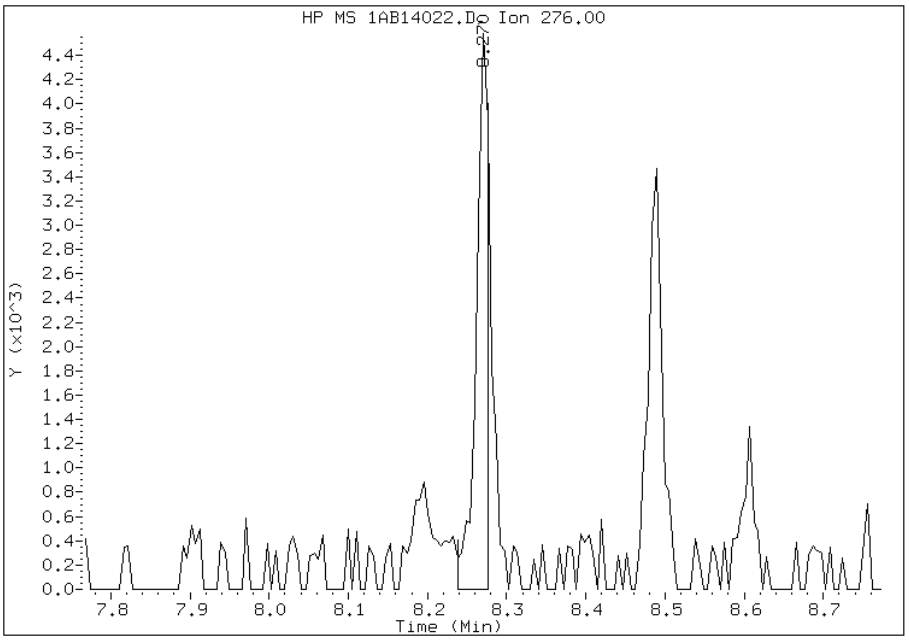
Manual Integration Results

RT: 8.27

Response: 4699

Amount: 0

Conc: 33



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0439A-CS | Lab Sample ID: 680-87218-35

Matrix: Solid | Lab File ID: 1AB14023.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 12:30

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.19(g) | Date Analyzed: 02/14/2013 15:24

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

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

% Moisture: 12.4 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	45	U	45	5.6
120-12-7	Anthracene	9.5	U	9.5	4.7
56-55-3	Benzo[a]anthracene	21		9.0	4.4
50-32-8	Benzo[a]pyrene	12		12	5.9
205-99-2	Benzo[b]fluoranthene	18		14	6.9
191-24-2	Benzo[g,h,i]perylene	11	J	23	5.0
207-08-9	Benzo[k]fluoranthene	7.3	J	9.0	4.1
218-01-9	Chrysene	16		10	5.1
53-70-3	Dibenz(a,h)anthracene	23	U	23	4.6
206-44-0	Fluoranthene	20	J	23	4.5
86-73-7	Fluorene	23	U	23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	9.9	J	23	8.0
90-12-0	1-Methylnaphthalene	12	J	45	5.0
91-57-6	2-Methylnaphthalene	35	J	45	8.0
91-20-3	Naphthalene	31	J	45	5.0
85-01-8	Phenanthrene	18		9.0	4.4
129-00-0	Pyrene	20	J	23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14023.D
Lab Smp Id: 680-87218-A-35-A Client Smp ID: CV0439A-CS
Inj Date : 14-FEB-2013 15:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-35-a
Misc Info : 680-87218-A-35-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 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	15.190	Weight Extracted
M	12.428	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.435	2.430	(1.000)	931111	40.0000	
* 6 Acenaphthene-d10	164	3.460	3.461	(1.000)	558150	40.0000	
* 10 Phenanthrene-d10	188	4.406	4.402	(1.000)	768979	40.0000	
$ 14 o-Terphenyl	230	4.684	4.685	(1.063)	96346	8.62259	648.2105
* 18 Chrysene-d12	240	6.431	6.426	(1.000)	582351	40.0000	
* 23 Perylene-d12	264	7.531	7.527	(1.000)	600983	40.0000	
2 Naphthalene	128	2.440	2.441	(1.002)	9209	0.40747	30.6321(Q)
3 2-Methylnaphthalene	141	2.846	2.847	(1.169)	5634	0.46533	34.9819
4 1-Methylnaphthalene	142	2.905	2.900	(1.193)	2220	0.16198	12.1768
11 Phenanthrene	178	4.422	4.418	(1.004)	4941	0.23533	17.6908
15 Fluoranthene	202	5.287	5.283	(1.200)	5607	0.26935	20.2487
16 Pyrene	202	5.458	5.454	(0.849)	5522	0.26256	19.7379
17 Benzo(a)anthracene	228	6.431	6.416	(1.000)	4853	0.27910	20.9813
19 Chrysene	228	6.447	6.448	(1.002)	3655	0.21565	16.2117

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
20 Benzo(b)fluoranthene	252	7.248	7.244	(0.962)	3907	0.23293	17.5104(M)
21 Benzo(k)fluoranthene	252	7.264	7.265	(0.965)	1699	0.09688	7.2829(QM)
22 Benzo(a)pyrene	252	7.478	7.479	(0.993)	2551	0.16015	12.0397
24 Indeno(1,2,3-cd)pyrene	276	8.279	8.275	(1.099)	1660	0.13198	9.9218(M)
26 Benzo(g,h,i)perylene	276	8.487	8.494	(1.127)	1889	0.14497	10.8982

QC Flag Legend

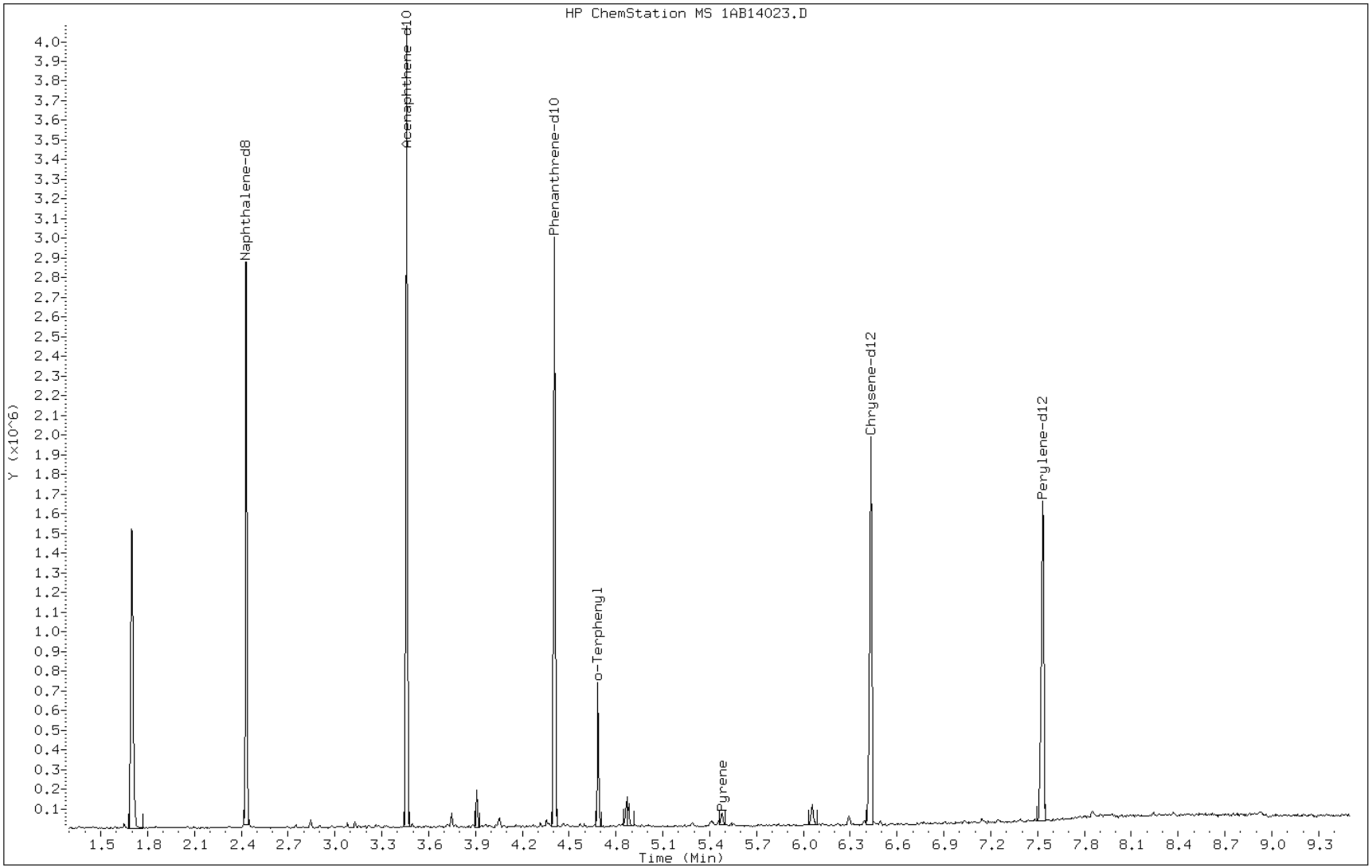
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

Client ID: CV0439A-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a | Operator: SCC



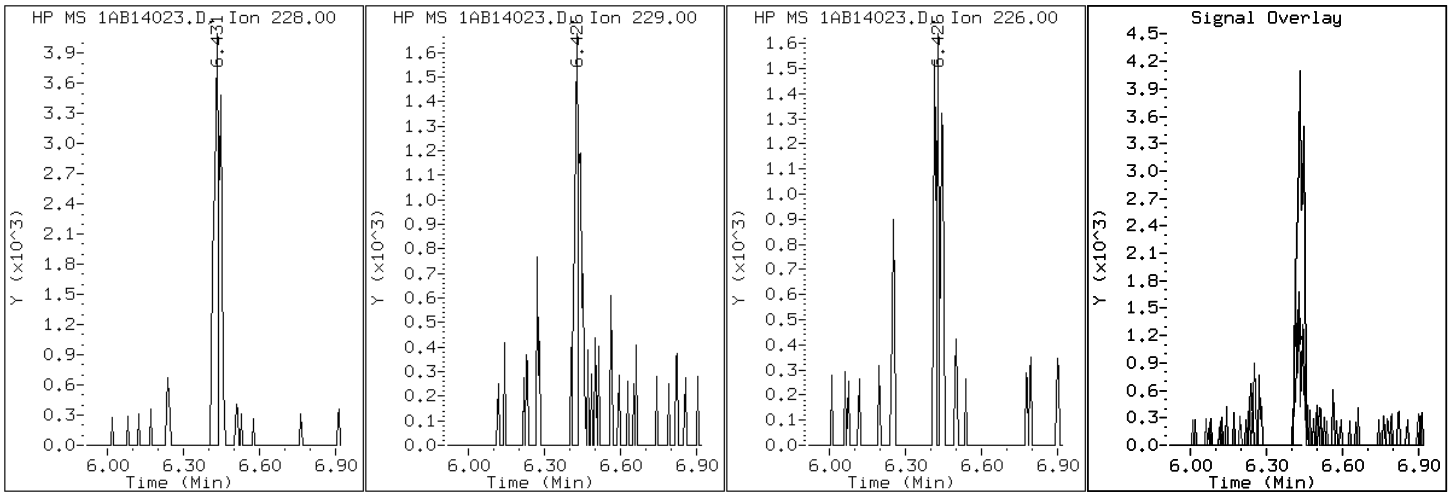
Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

Client ID: CV0439A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a Operator: SCC

17 Benzo(a)anthracene



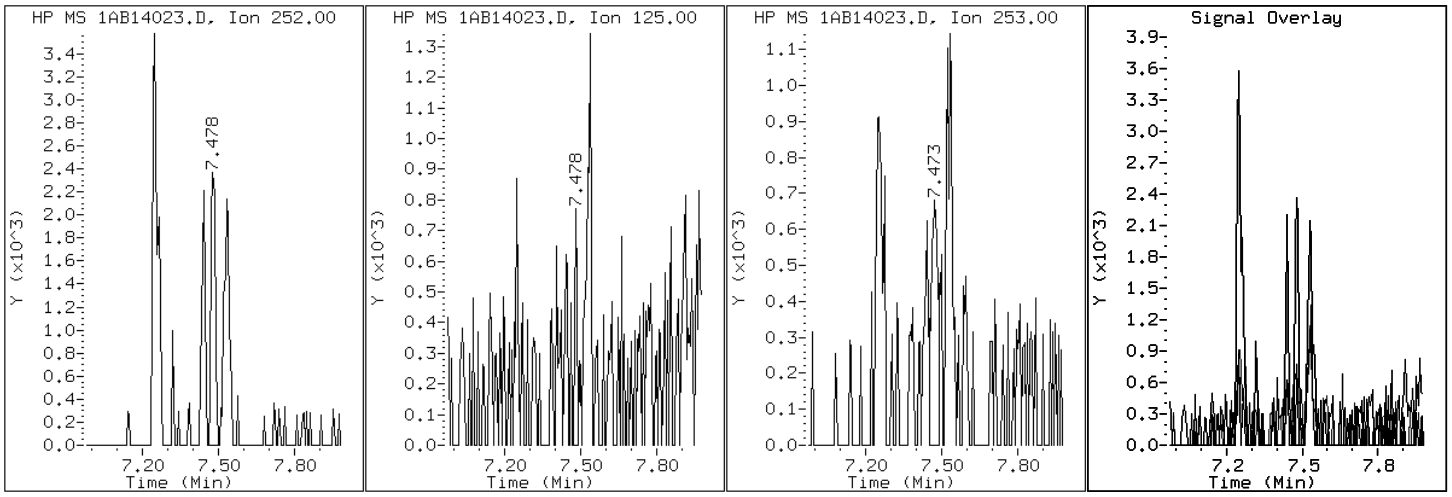
Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

Client ID: CV0439A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a Operator: SCC

22 Benzo(a)pyrene



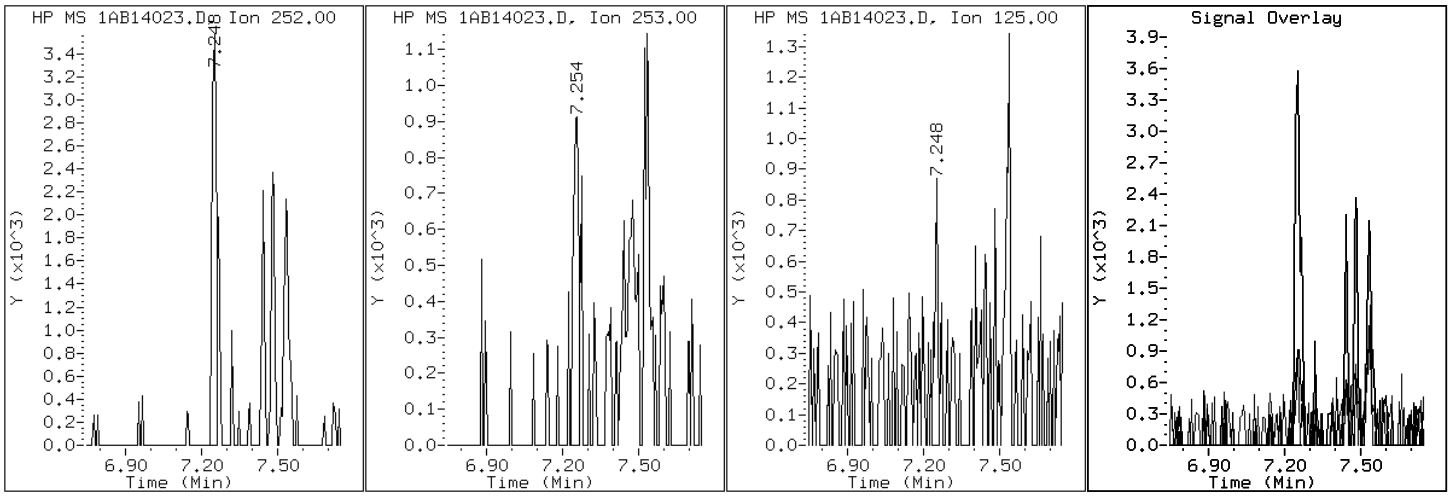
Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

Client ID: CV0439A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

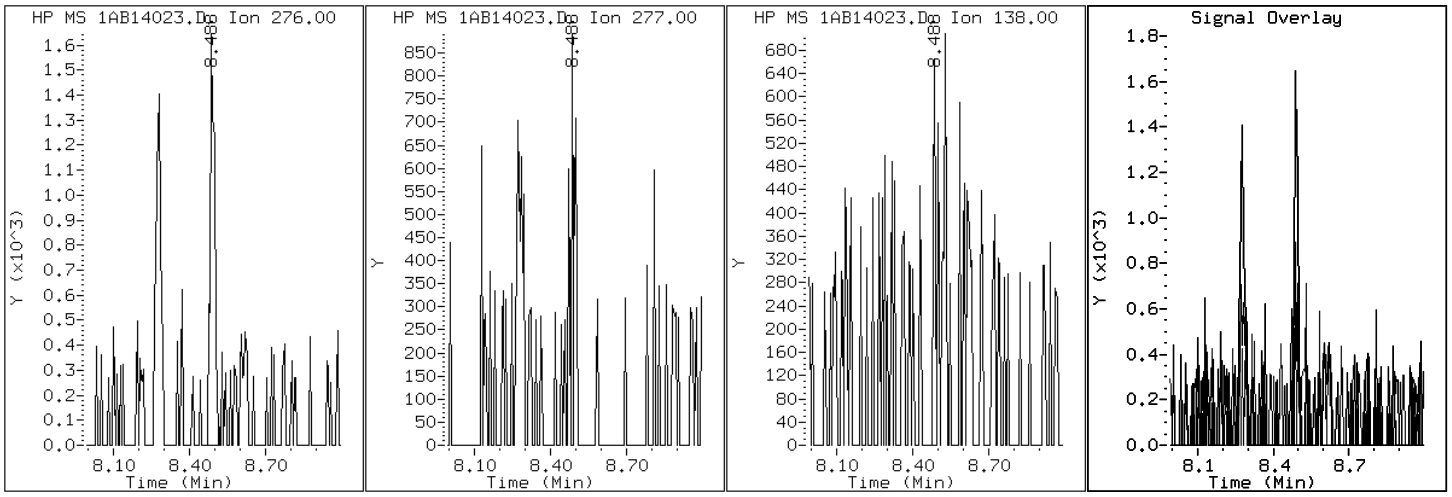
Client ID: CV0439A-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

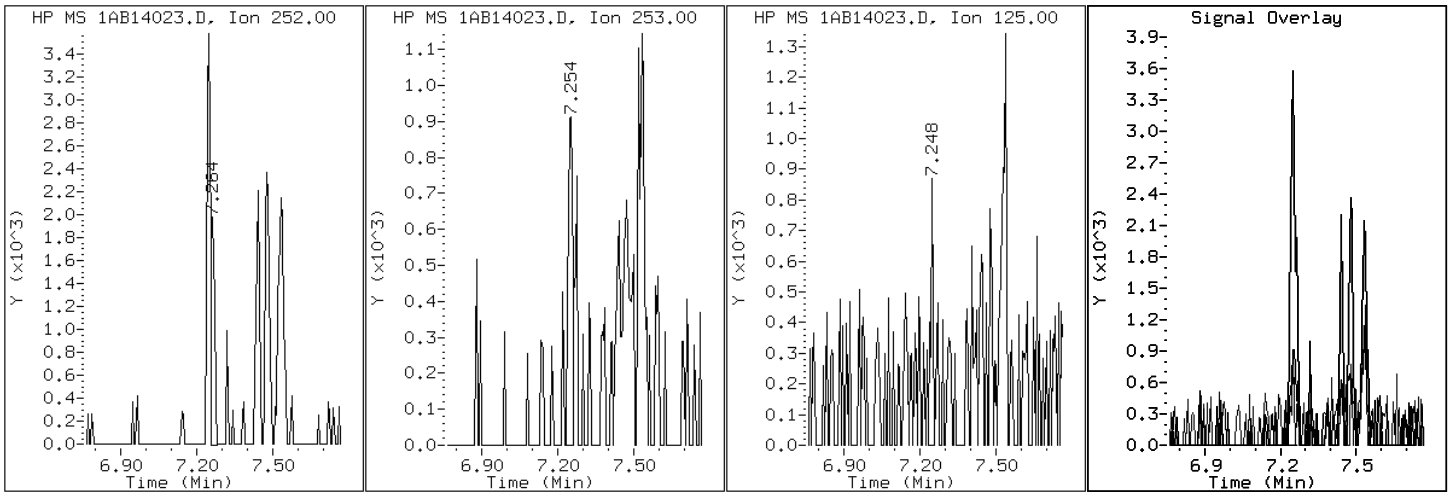
Client ID: CV0439A-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a

Operator: SCC

21 Benzo(k)fluoranthene



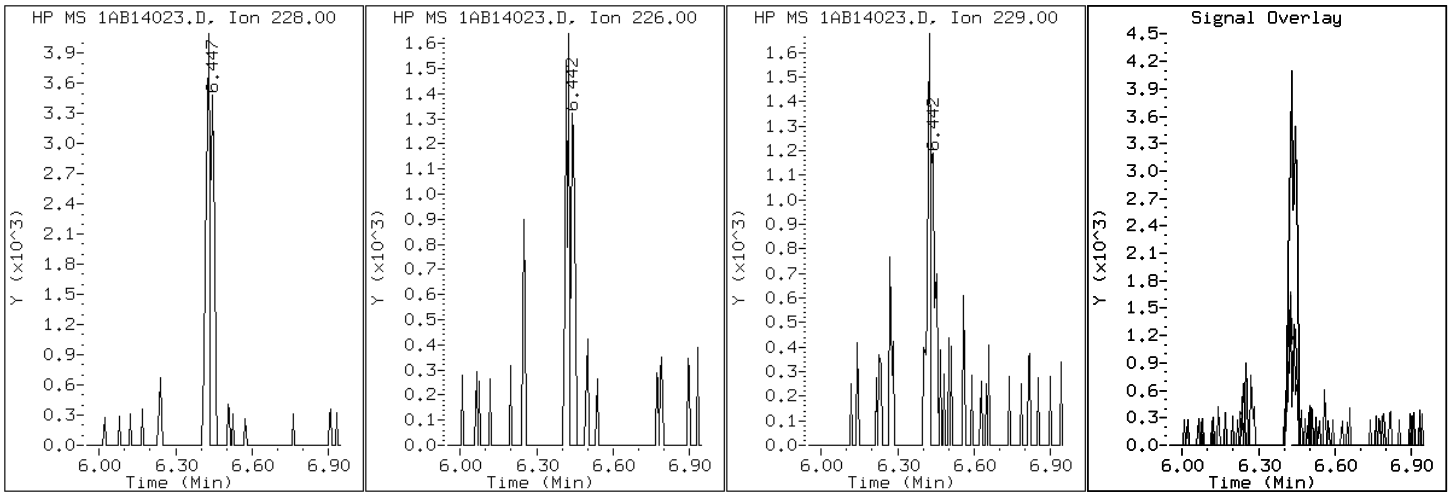
Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

Client ID: CV0439A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a Operator: SCC

19 Chrysene



Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

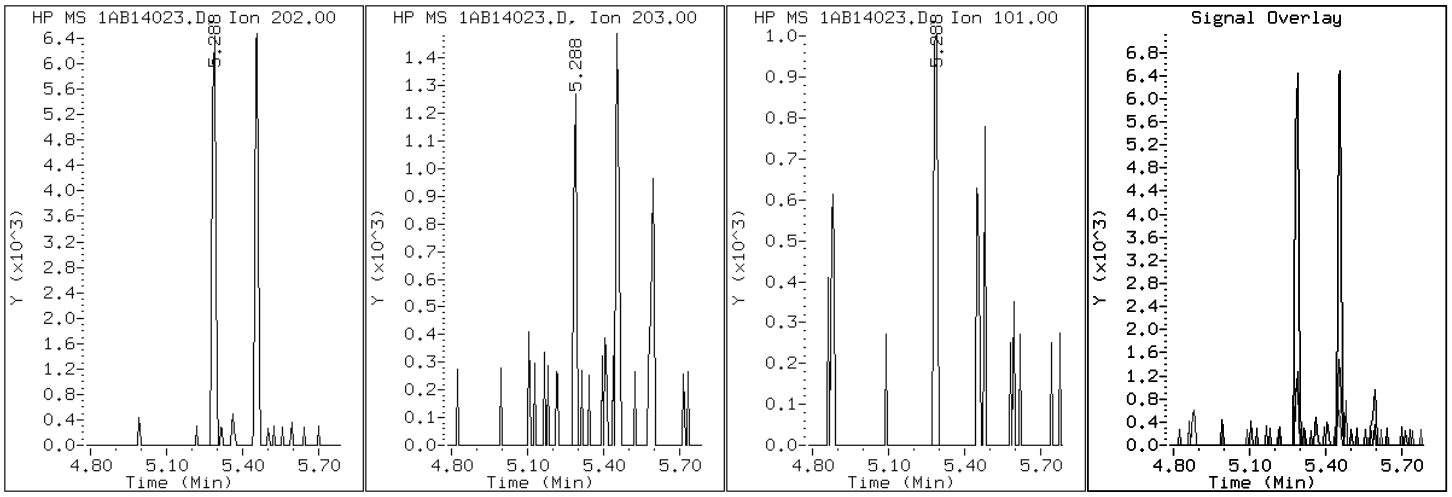
Client ID: CV0439A-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a

Operator: SCC

15 Fluoranthene



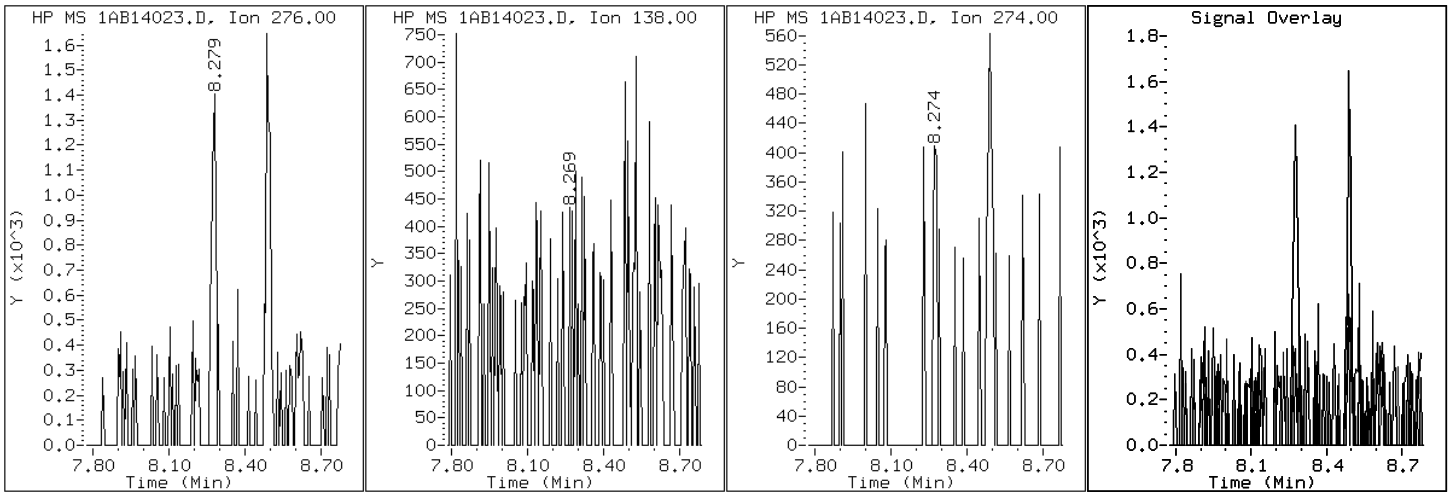
Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

Client ID: CV0439A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a Operator: SCC

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



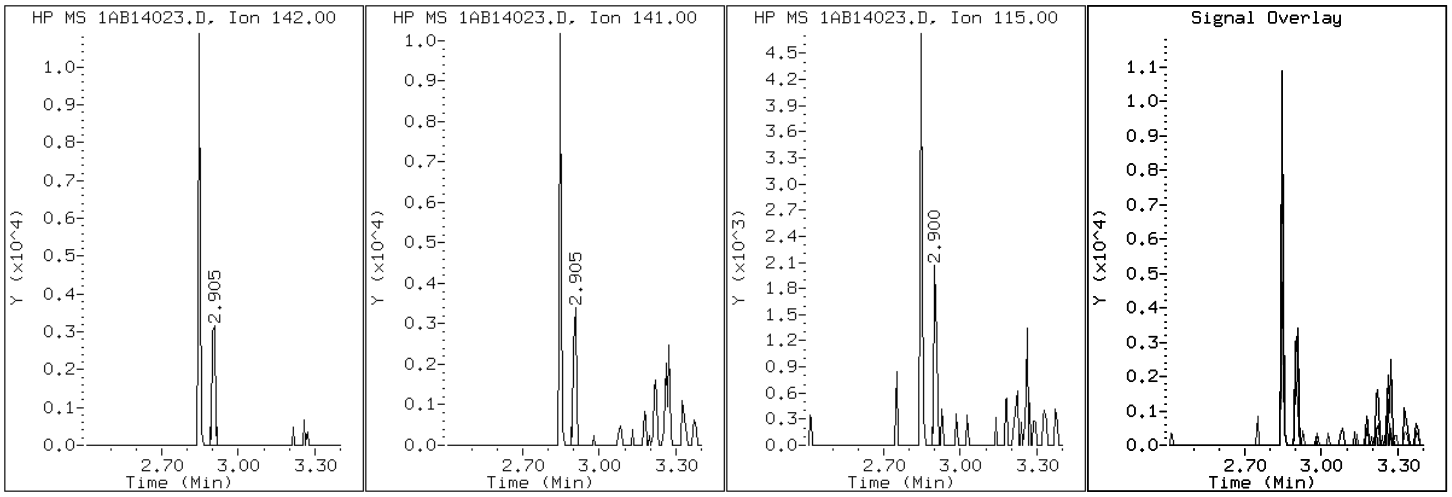
Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

Client ID: CV0439A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a Operator: SCC

4 1-Methylnaphthalene



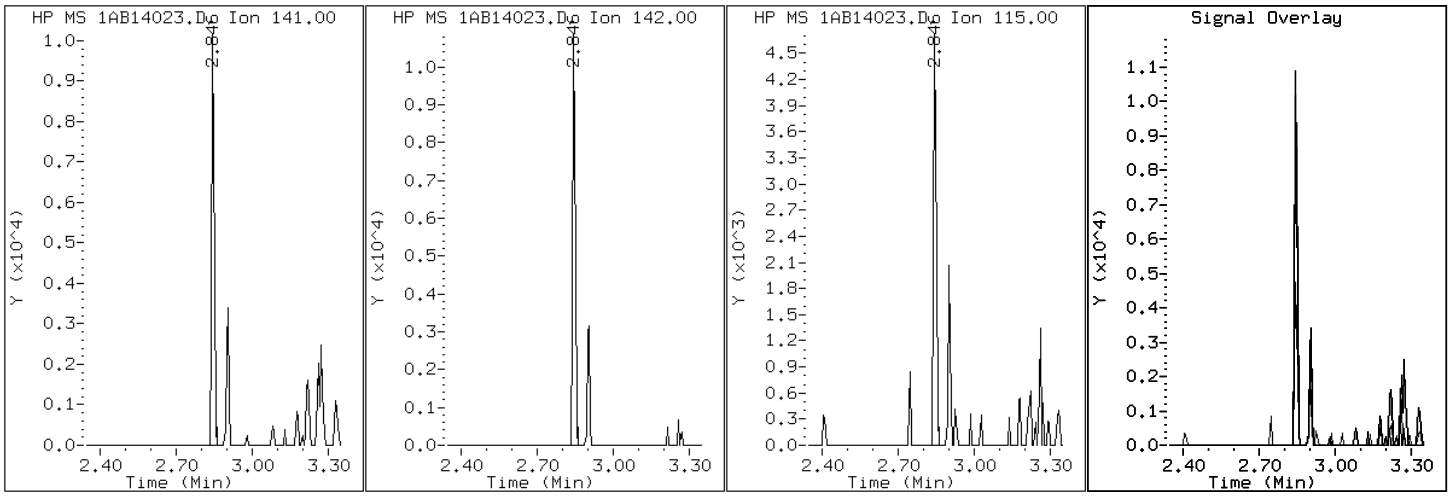
Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

Client ID: CV0439A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

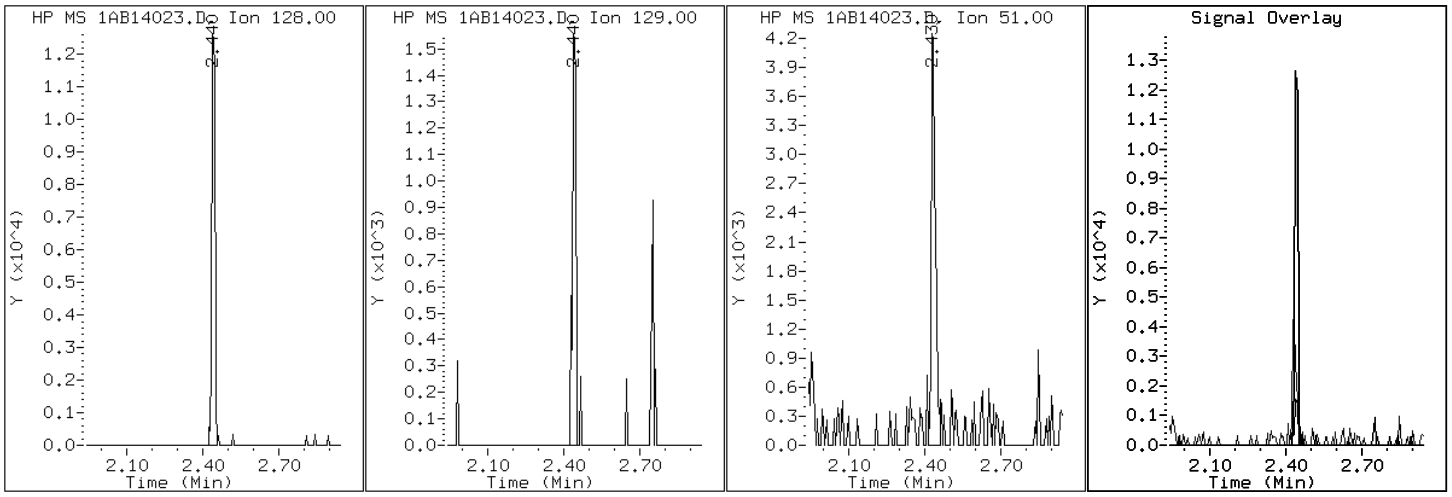
Client ID: CV0439A-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a

Operator: SCC

2 Naphthalene



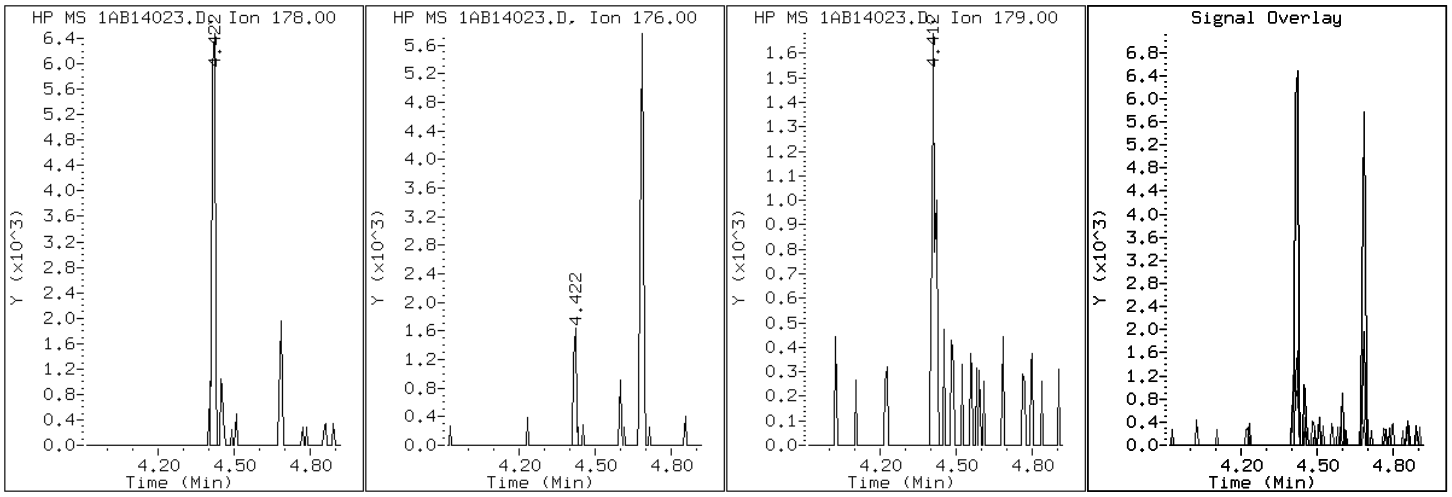
Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

Client ID: CV0439A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a Operator: SCC

11 Phenanthrene



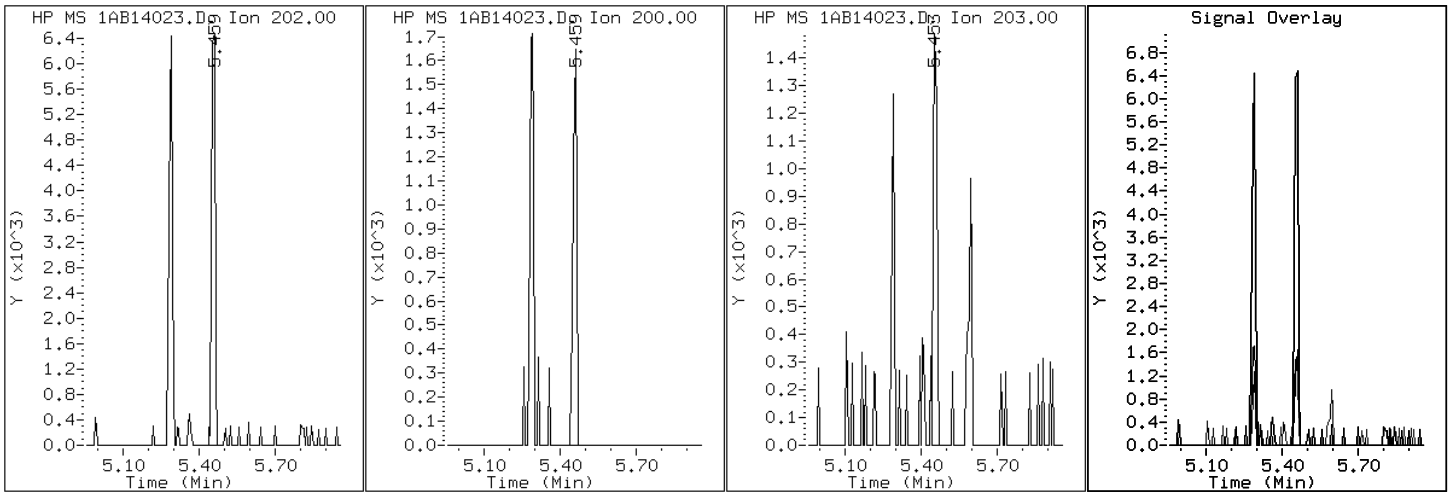
Data File: 1AB14023.D

Date: 14-FEB-2013 15:24

Client ID: CV0439A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-35-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14023.D
Inj. Date and Time: 14-FEB-2013 15:24
Instrument ID: BSMA5973.i
Client ID: CV0439A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

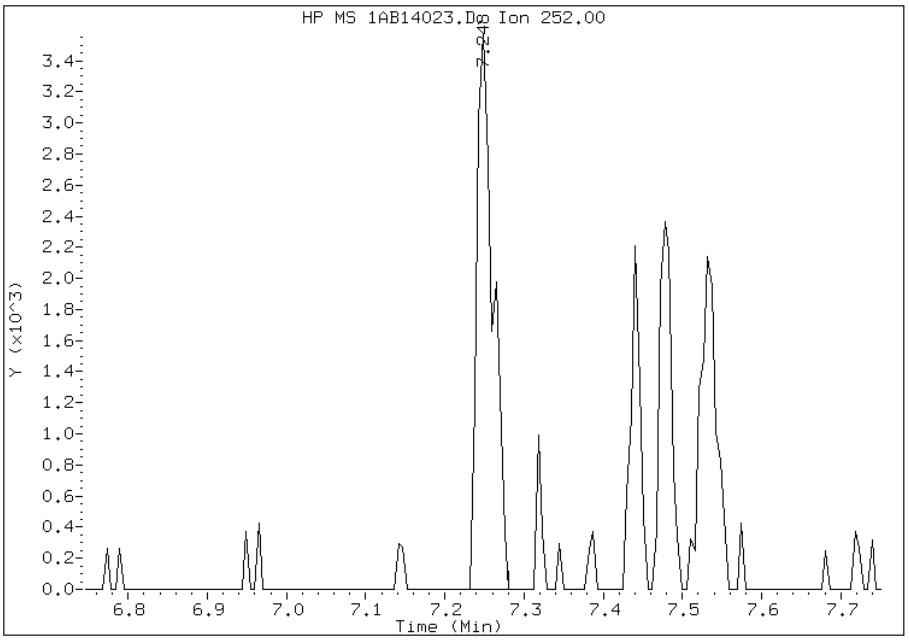
Processing Integration Results

RT: 7.25

Response: 5063

Amount: 0

Conc: 23



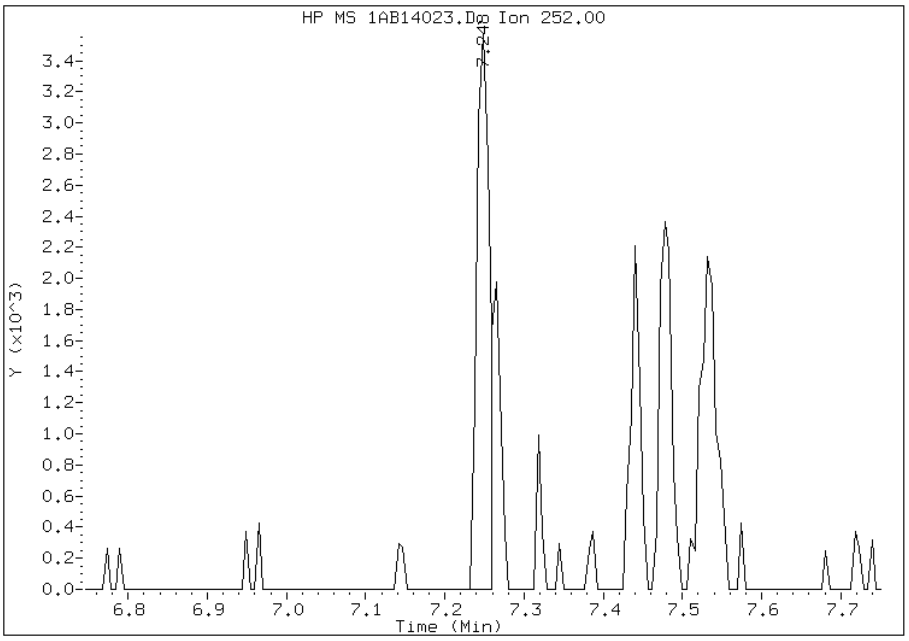
Manual Integration Results

RT: 7.25

Response: 3907

Amount: 0

Conc: 18



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14023.D
Inj. Date and Time: 14-FEB-2013 15:24
Instrument ID: BSMA5973.i
Client ID: CV0439A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

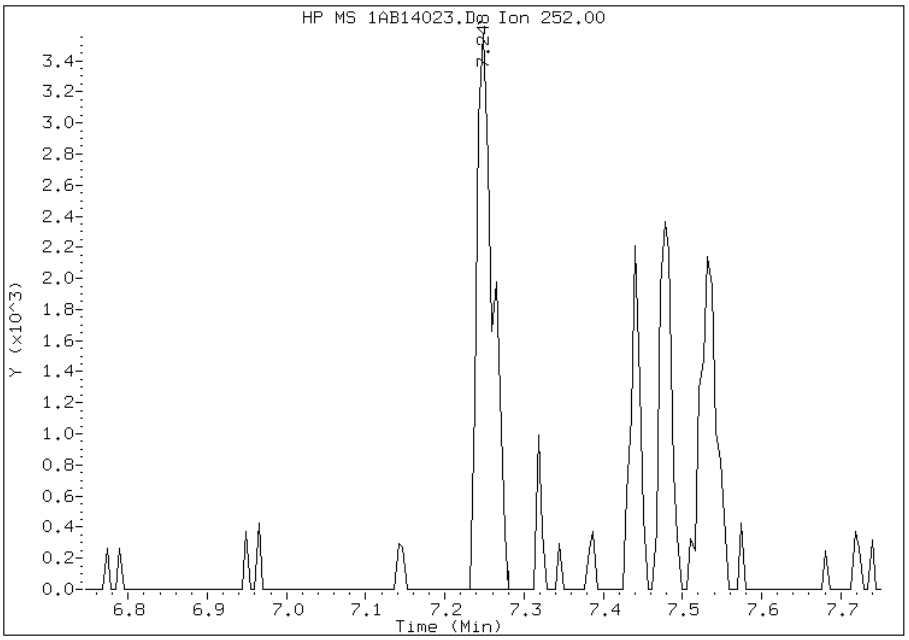
Processing Integration Results

RT: 7.25

Response: 5063

Amount: 0

Conc: 22



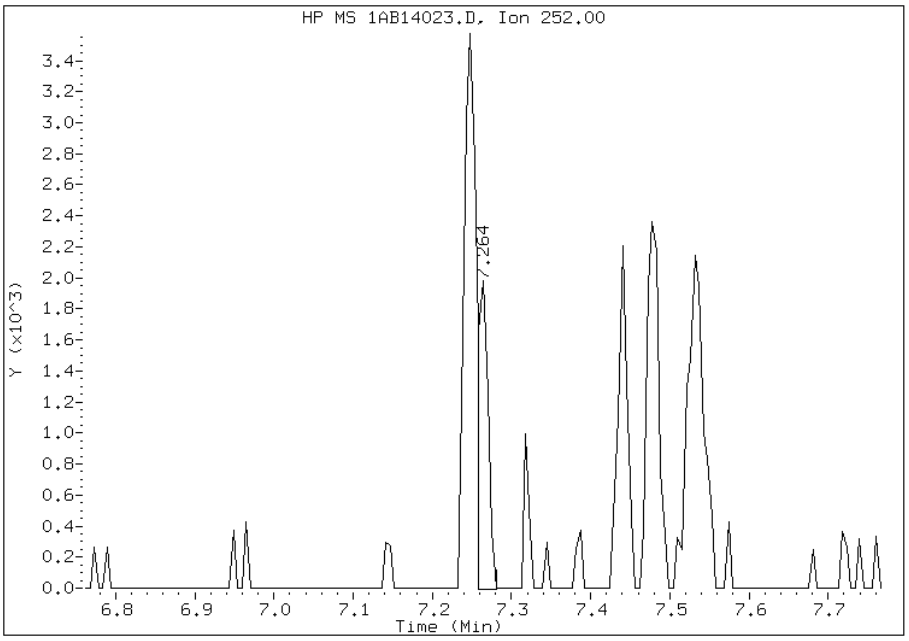
Manual Integration Results

RT: 7.26

Response: 1699

Amount: 0

Conc: 7



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14023.D
Inj. Date and Time: 14-FEB-2013 15:24
Instrument ID: BSMA5973.i
Client ID: CV0439A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

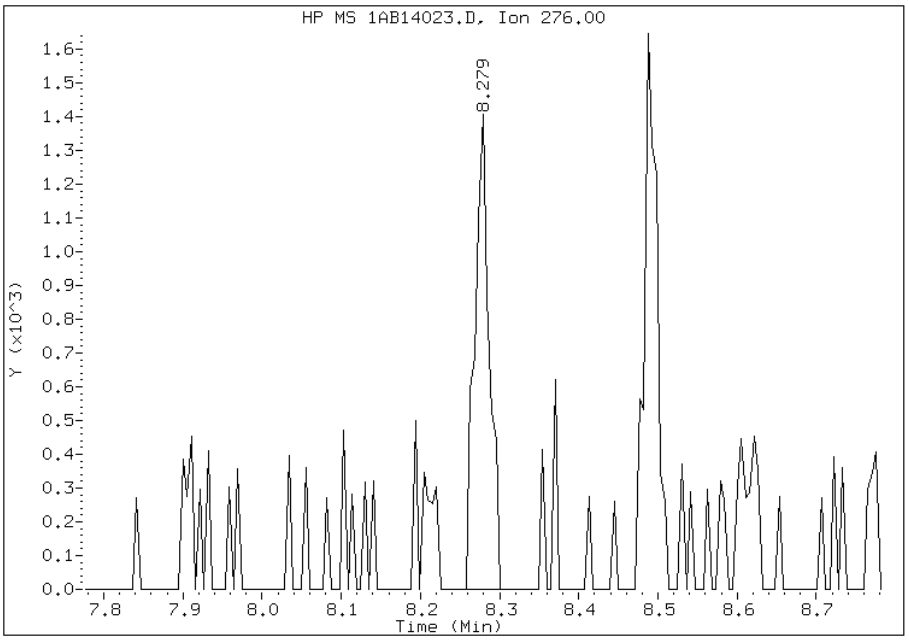
Processing Integration Results

RT: 8.28

Response: 1801

Amount: 0

Conc: 11



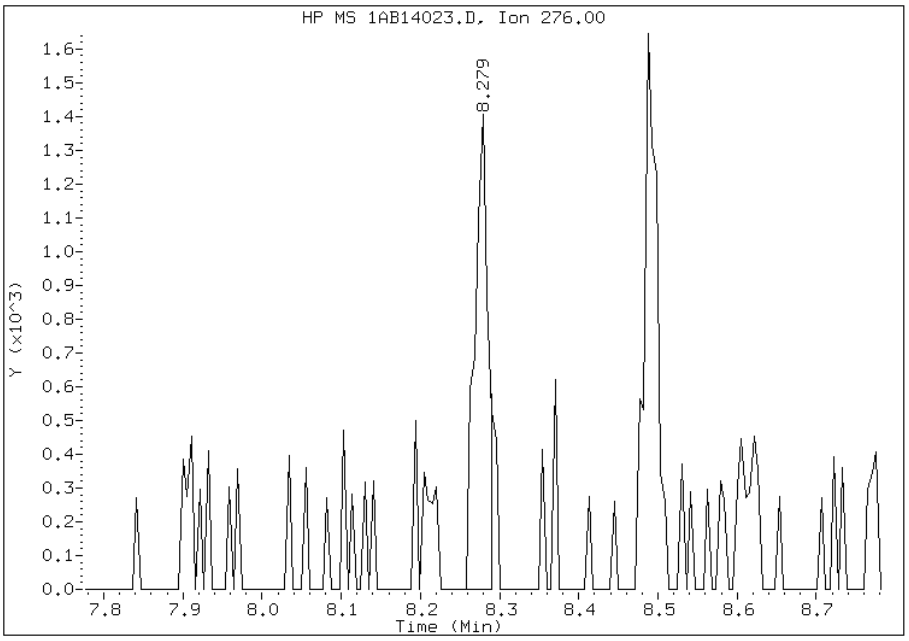
Manual Integration Results

RT: 8.28

Response: 1660

Amount: 0

Conc: 10



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0439A-CSD | Lab Sample ID: 680-87218-36

Matrix: Solid | Lab File ID: 1AB14024.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 12:33

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.20(g) | Date Analyzed: 02/14/2013 15:39

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

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

% Moisture: 13.1 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	45	U	45	5.7
120-12-7	Anthracene	6.9	J	9.5	4.8
56-55-3	Benzo[a]anthracene	37		9.1	4.4
50-32-8	Benzo[a]pyrene	19		12	5.9
205-99-2	Benzo[b]fluoranthene	29		14	6.9
191-24-2	Benzo[g,h,i]perylene	21	J	23	5.0
207-08-9	Benzo[k]fluoranthene	14		9.1	4.1
218-01-9	Chrysene	22		10	5.1
53-70-3	Dibenz(a,h)anthracene	6.0	J	23	4.7
206-44-0	Fluoranthene	42		23	4.5
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	19	J	23	8.1
90-12-0	1-Methylnaphthalene	14	J	45	5.0
91-57-6	2-Methylnaphthalene	32	J	45	8.1
91-20-3	Naphthalene	27	J	45	5.0
85-01-8	Phenanthrene	33		9.1	4.4
129-00-0	Pyrene	38		23	4.2

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\1A021413.b\1AB14024.D
Lab Smp Id: 680-87218-A-36-A Client Smp ID: CV0439A-CSD
Inj Date : 14-FEB-2013 15:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-36-a
Misc Info : 680-87218-A-36-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 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	15.200	Weight Extracted
M	13.060	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.432	2.430	(1.000)	855084	40.0000	
* 6 Acenaphthene-d10	164	3.463	3.461	(1.000)	550030	40.0000	
* 10 Phenanthrene-d10	188	4.408	4.402	(1.000)	744775	40.0000	
$ 14 o-Terphenyl	230	4.686	4.685	(1.063)	90021	8.31835	629.4715
* 18 Chrysene-d12	240	6.433	6.426	(1.000)	584041	40.0000	
* 23 Perylene-d12	264	7.533	7.527	(1.000)	549053	40.0000	
2 Naphthalene	128	2.442	2.441	(1.004)	7292	0.35134	26.5867
3 2-Methylnaphthalene	141	2.848	2.847	(1.171)	4721	0.42460	32.1302
4 1-Methylnaphthalene	142	2.902	2.900	(1.193)	2283	0.18139	13.7259
11 Phenanthrene	178	4.419	4.418	(1.002)	8901	0.43771	33.1224
12 Anthracene	178	4.456	4.455	(1.011)	1892	0.09125	6.9054
15 Fluoranthene	202	5.284	5.283	(1.199)	11256	0.55829	42.2475
16 Pyrene	202	5.455	5.454	(0.848)	10653	0.50506	38.2190
17 Benzo(a)anthracene	228	6.422	6.416	(0.998)	8619	0.49425	37.4009

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.444	6.448	(1.002)	4874	0.28674	21.6985
20 Benzo(b)fluoranthene	252	7.250	7.244	(0.962)	5899	0.38495	29.1299(M)
21 Benzo(k)fluoranthene	252	7.256	7.265	(0.963)	2974	0.18562	14.0463(M)
22 Benzo(a)pyrene	252	7.475	7.479	(0.992)	3733	0.25653	19.4120
24 Indeno(1,2,3-cd)pyrene	276	8.271	8.275	(1.098)	2876	0.25029	18.9399(MH)
25 Dibenzo(a,h)anthracene	278	8.287	8.291	(1.100)	913	0.07948	6.0143(Q)
26 Benzo(g,h,i)perylene	276	8.484	8.494	(1.126)	3251	0.27309	20.6656

QC Flag Legend

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

Data File: 1AB14024.D

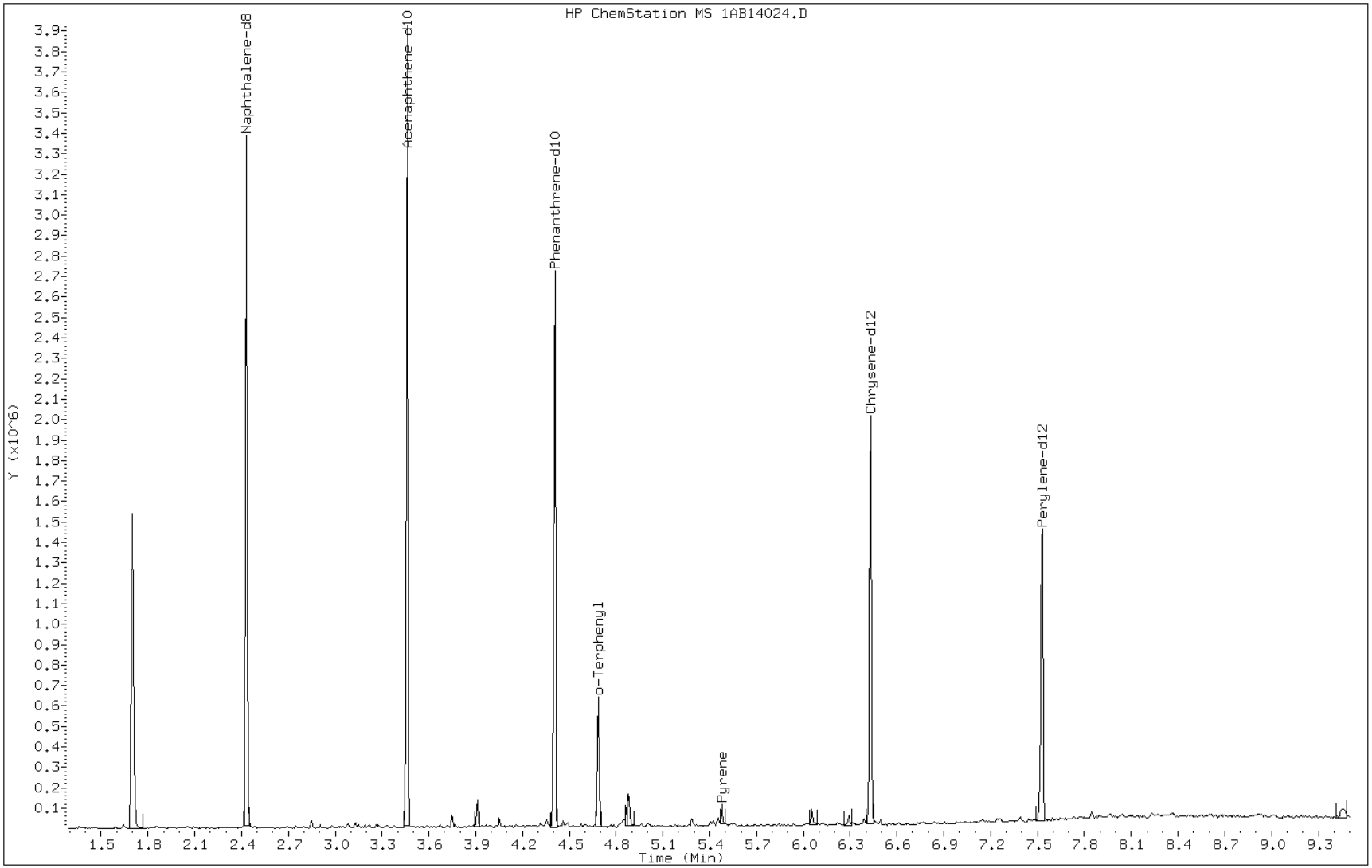
Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD

Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a

Operator: SCC



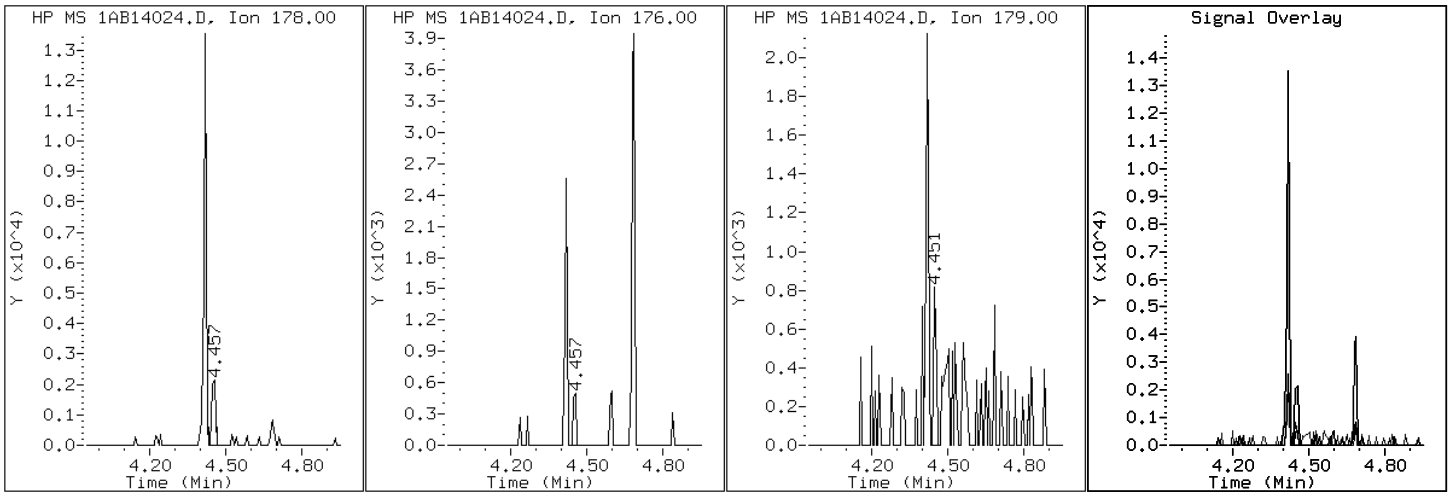
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

12 Anthracene



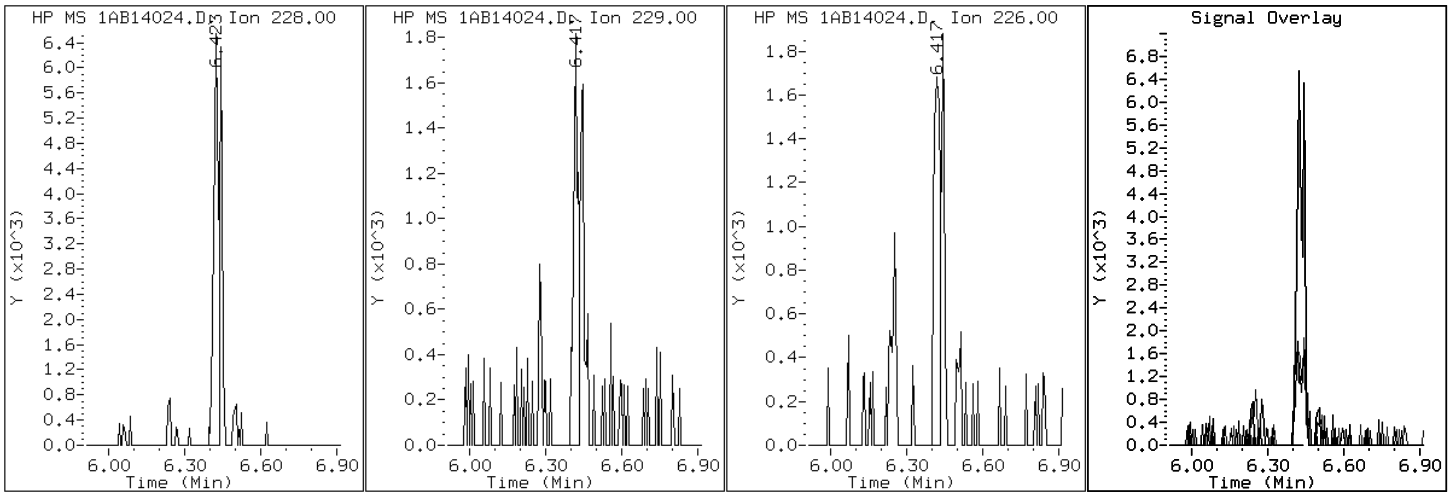
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

17 Benzo(a)anthracene



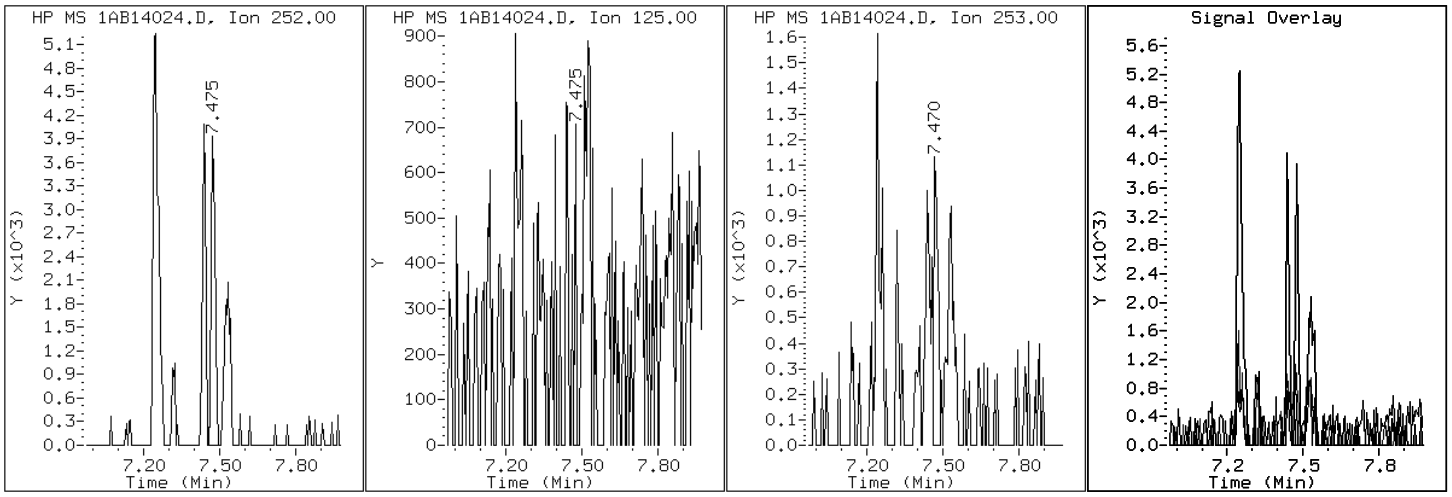
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

22 Benzo(a)pyrene



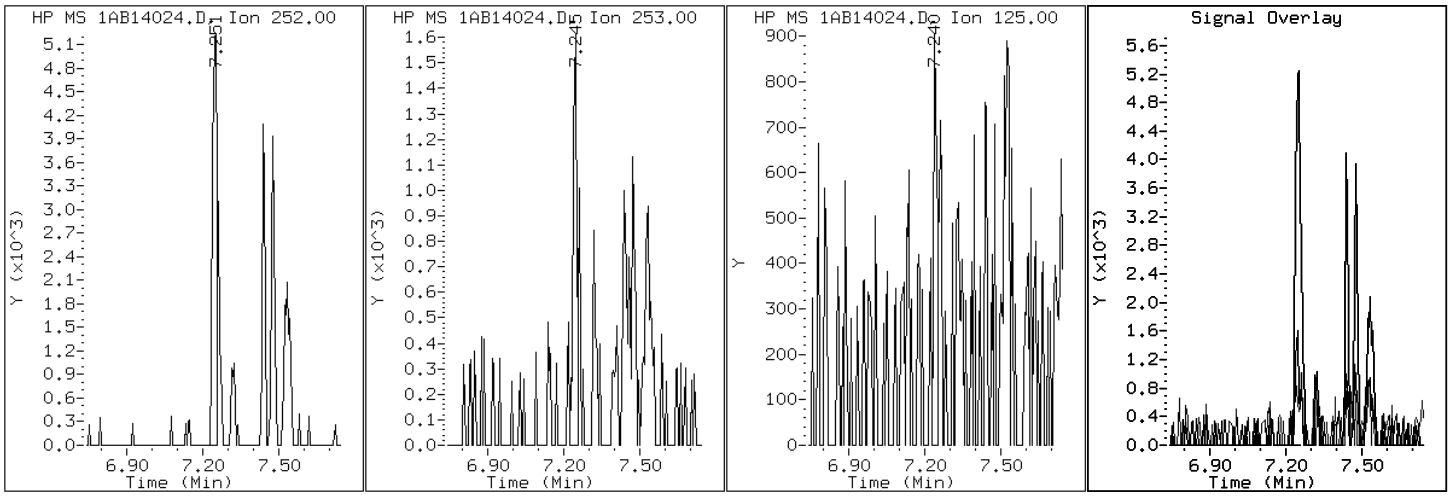
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

20 Benzo(b)fluoranthene



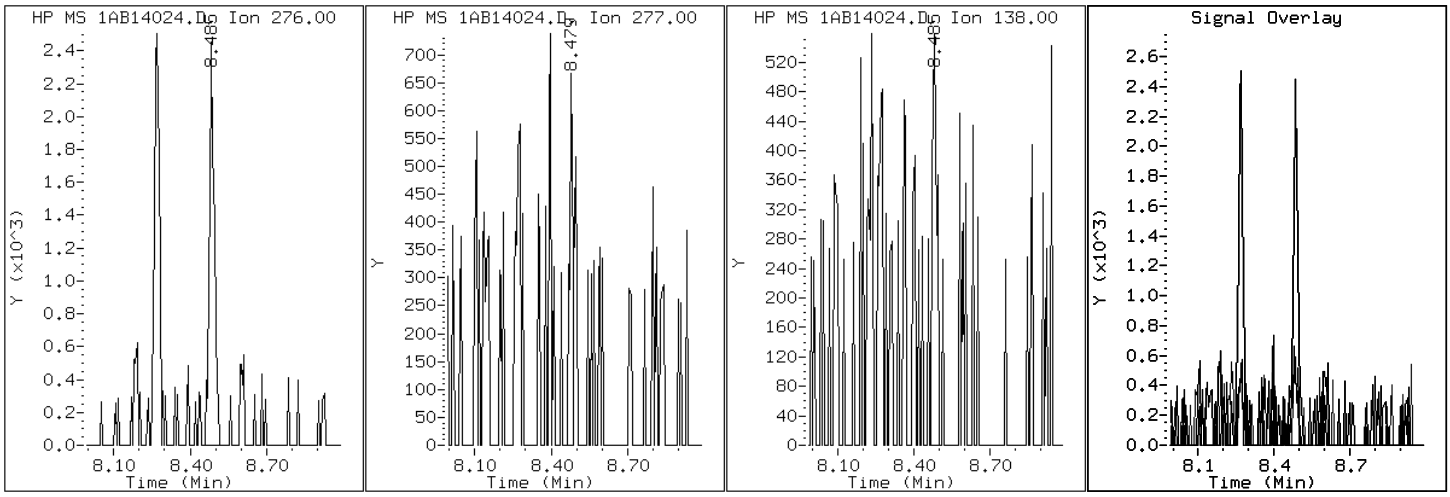
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

26 Benzo(g,h,i)perylene



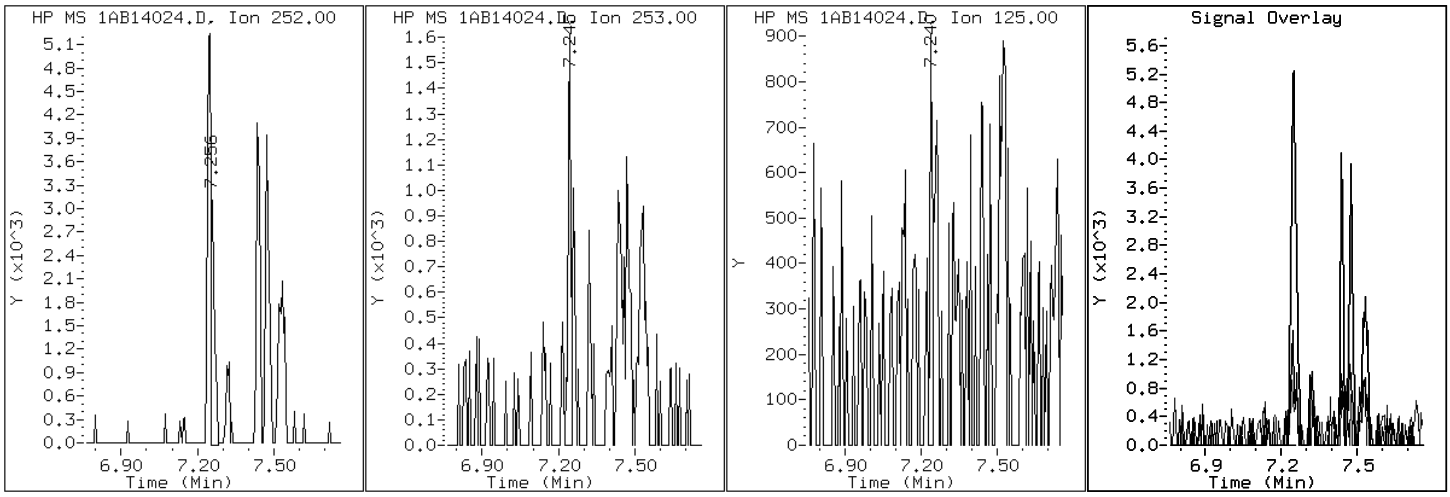
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

21 Benzo(k)fluoranthene



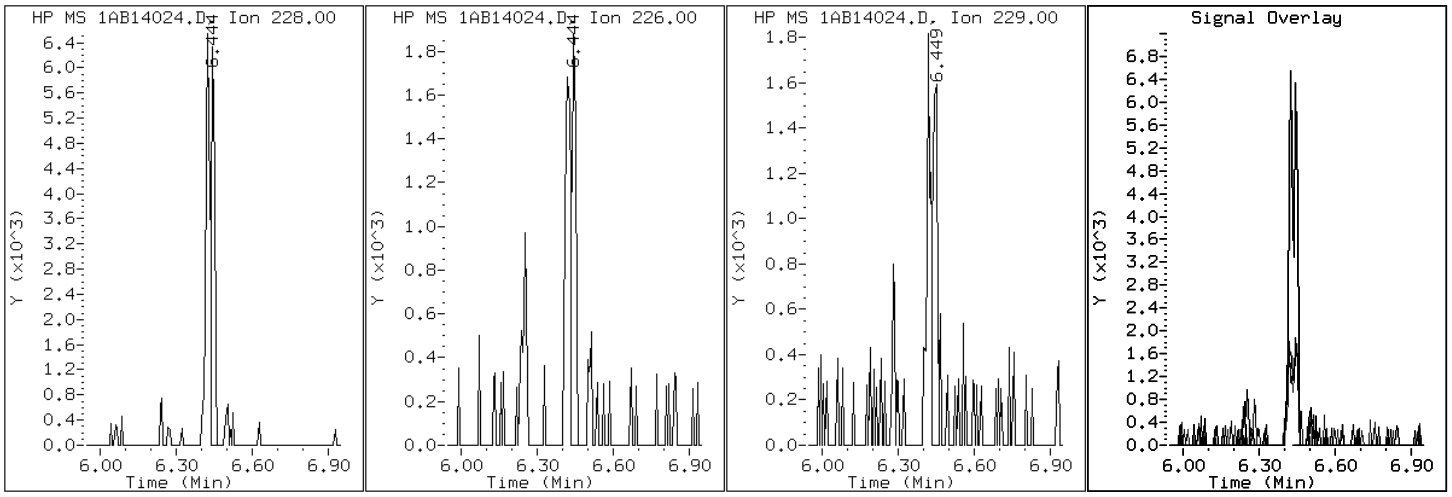
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

19 Chrysene



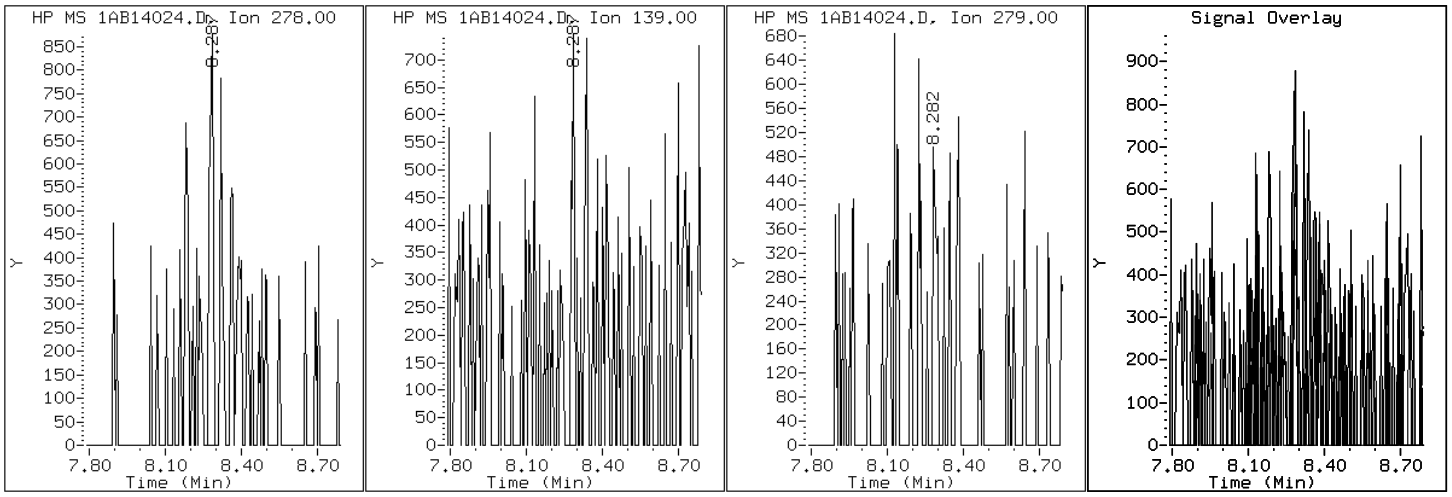
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

25 Dibenzo(a,h)anthracene



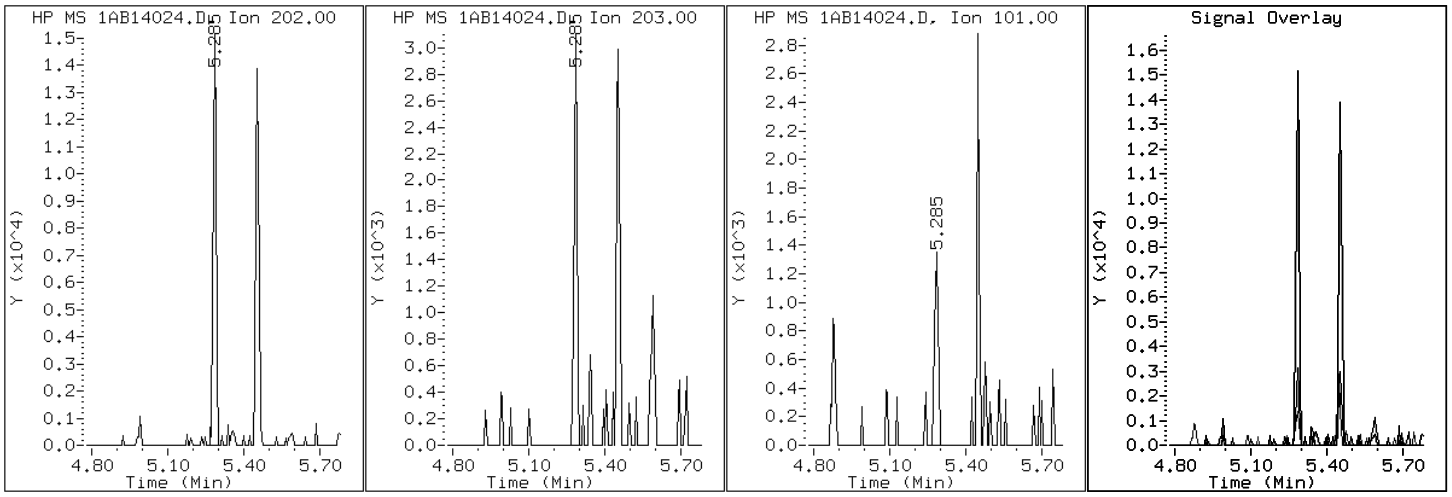
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

15 Fluoranthene



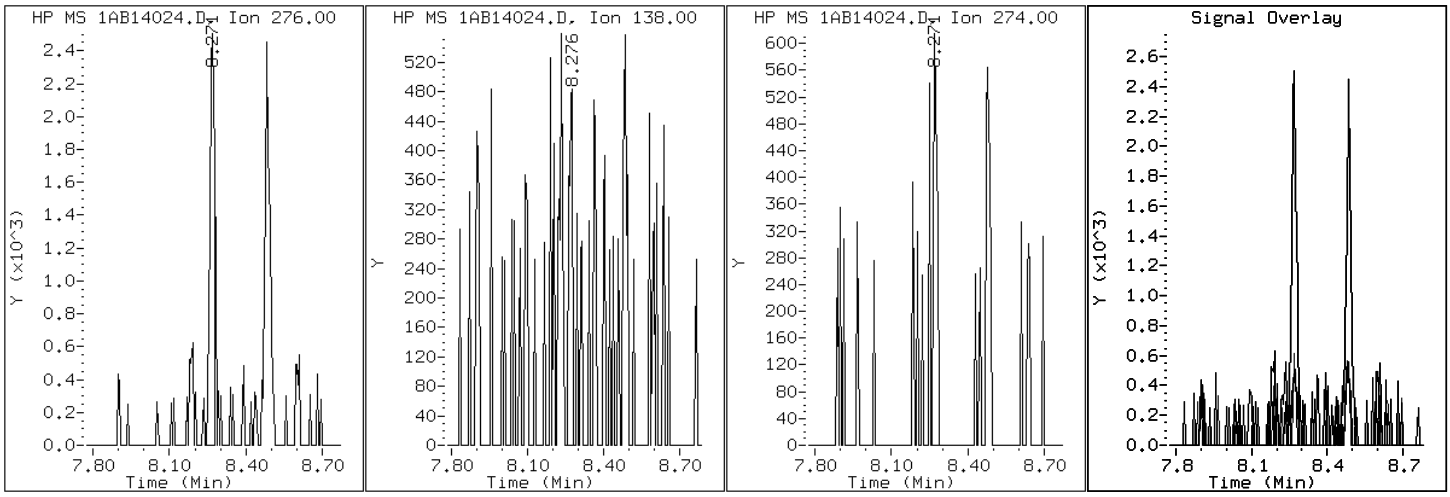
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

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



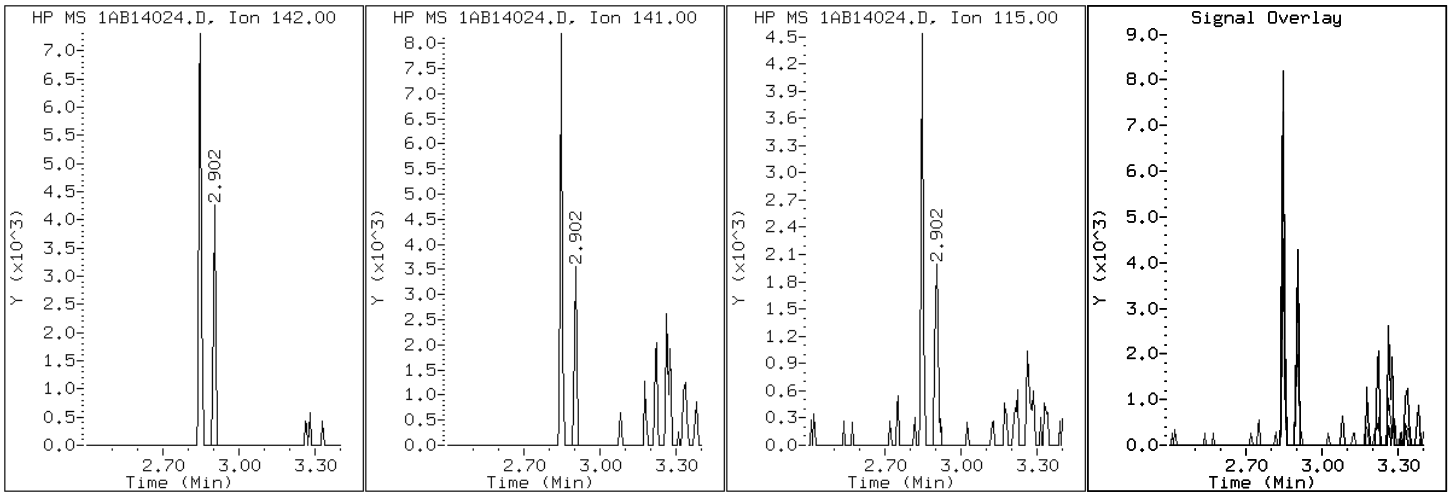
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

4 1-Methylnaphthalene



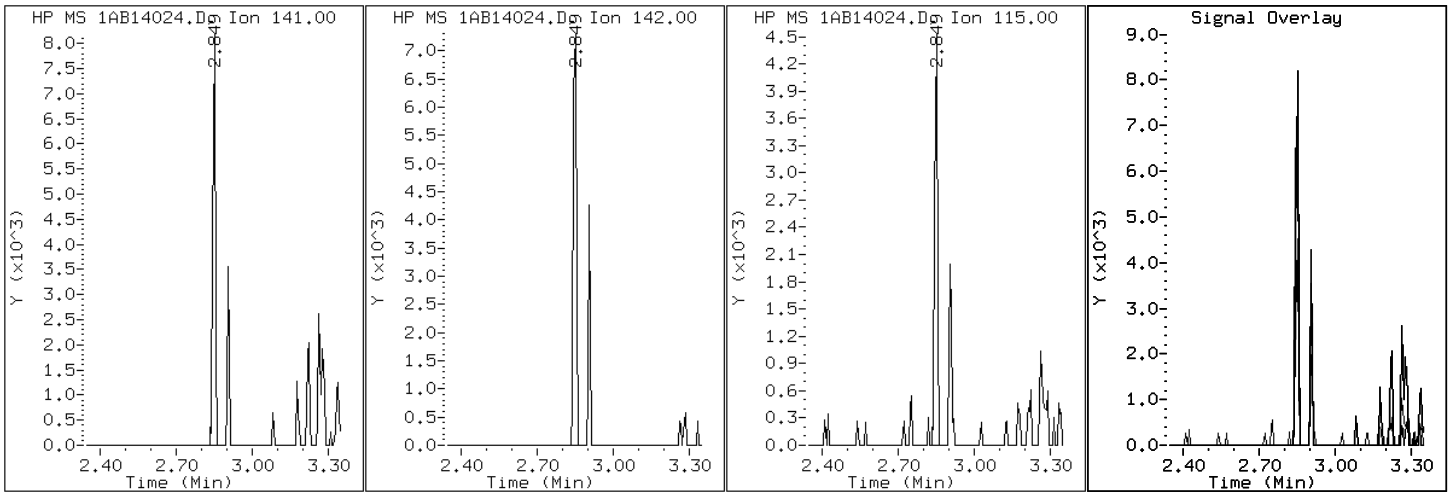
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

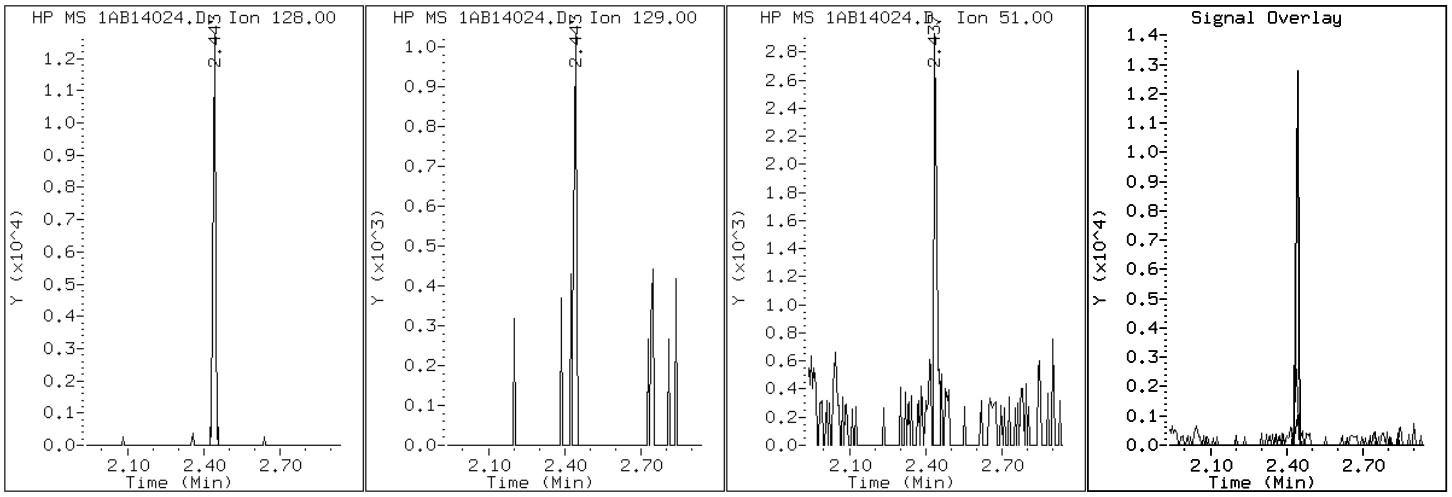
Client ID: CV0439A-CSD

Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a

Operator: SCC

2 Naphthalene



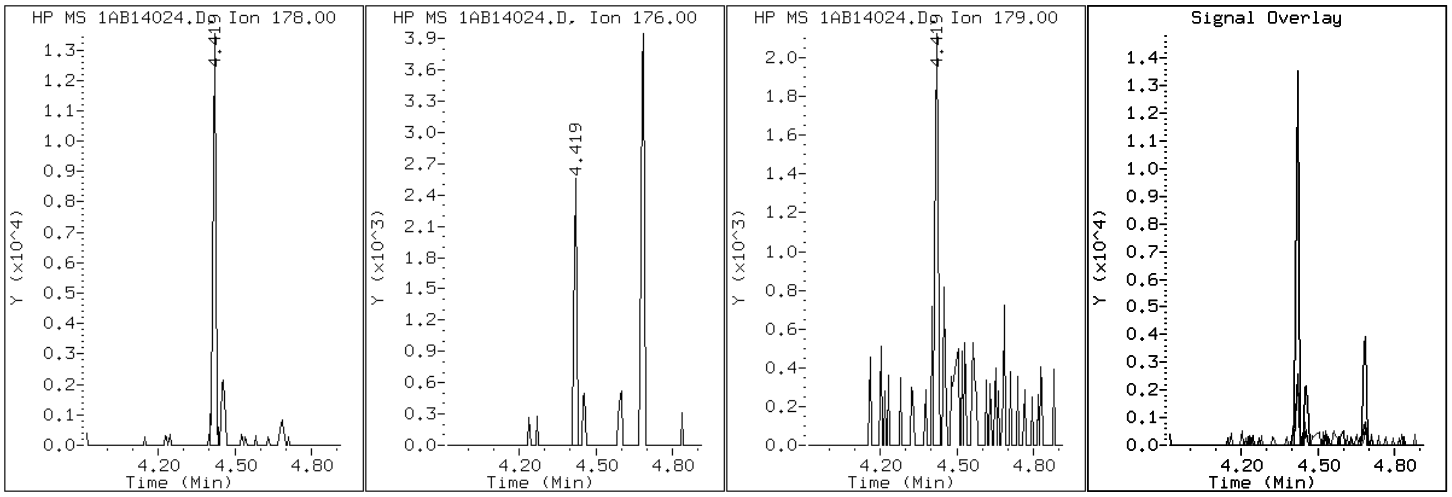
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

11 Phenanthrene



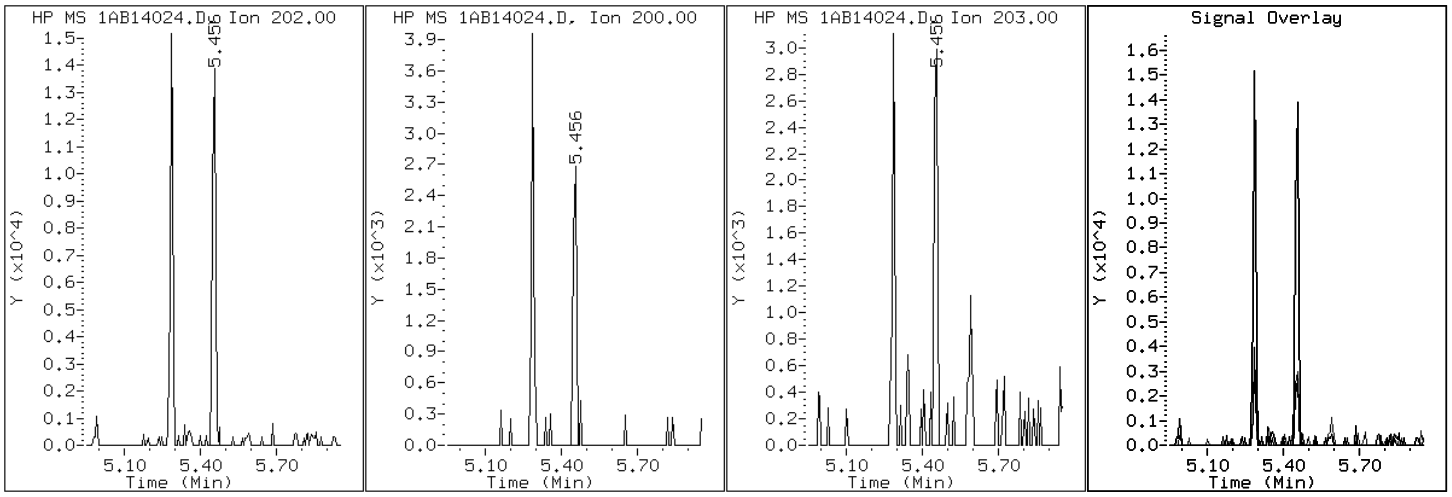
Data File: 1AB14024.D

Date: 14-FEB-2013 15:39

Client ID: CV0439A-CSD Instrument: BSMA5973.i

Sample Info: 680-87218-a-36-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14024.D
Inj. Date and Time: 14-FEB-2013 15:39
Instrument ID: BSMA5973.i
Client ID: CV0439A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

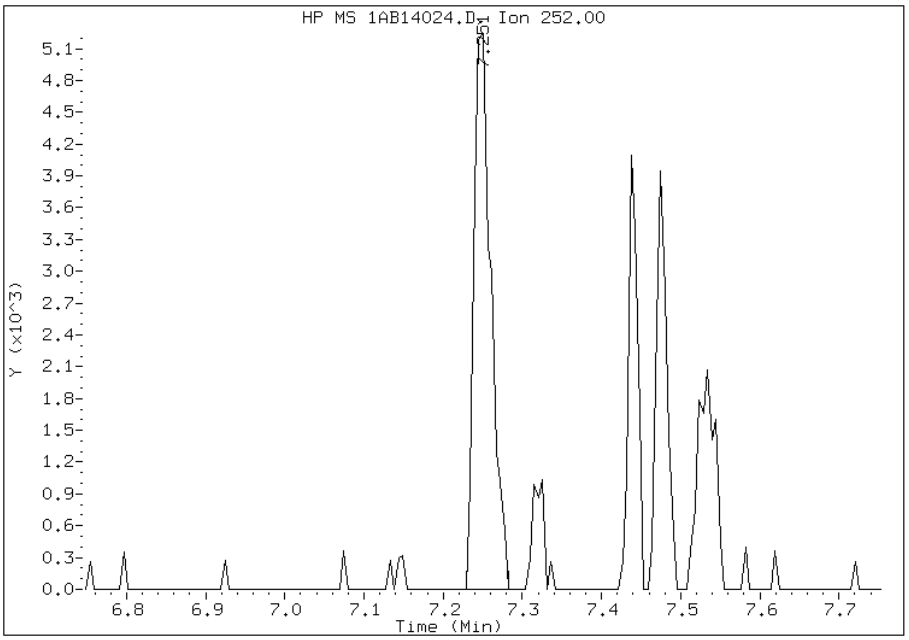
Processing Integration Results

RT: 7.25

Response: 7772

Amount: 1

Conc: 38



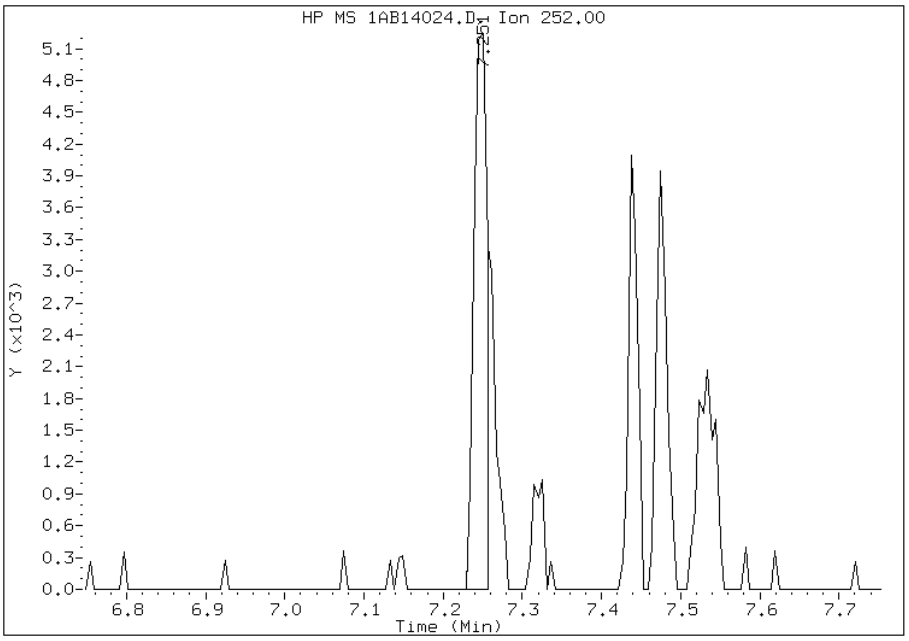
Manual Integration Results

RT: 7.25

Response: 5899

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14024.D
Inj. Date and Time: 14-FEB-2013 15:39
Instrument ID: BSMA5973.i
Client ID: CV0439A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

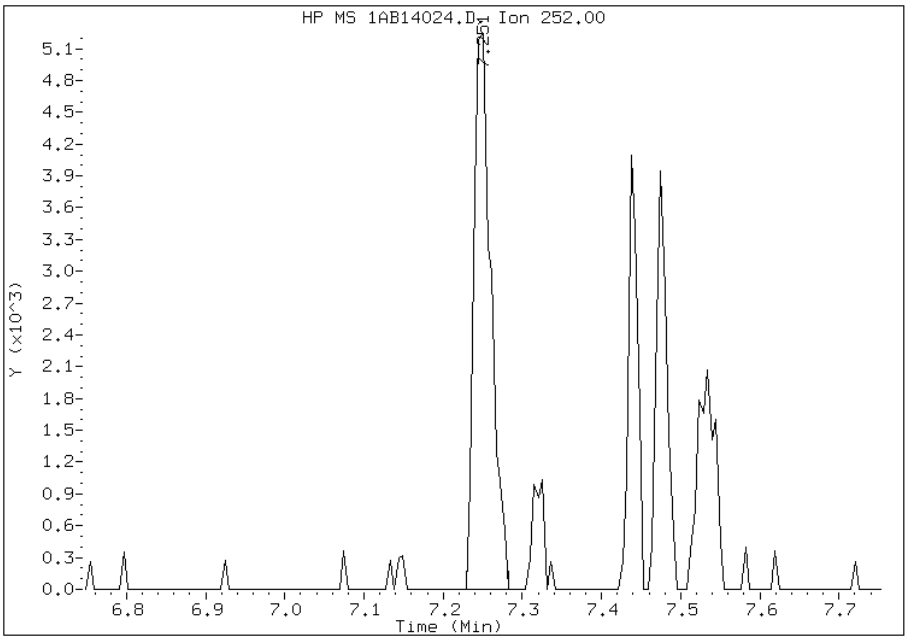
Processing Integration Results

RT: 7.25

Response: 7772

Amount: 0

Conc: 37



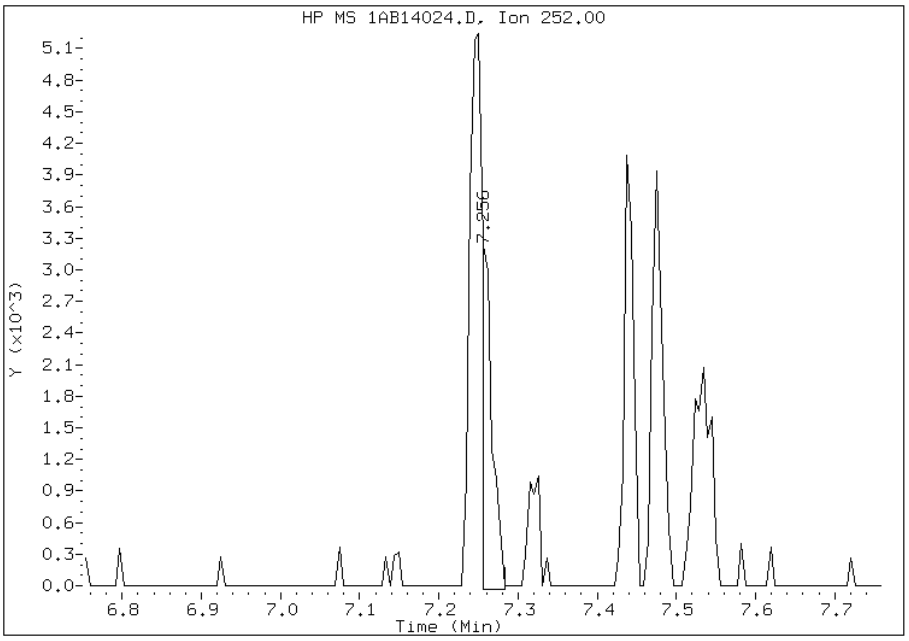
Manual Integration Results

RT: 7.26

Response: 2974

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14024.D
Inj. Date and Time: 14-FEB-2013 15:39
Instrument ID: BSMA5973.i
Client ID: CV0439A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

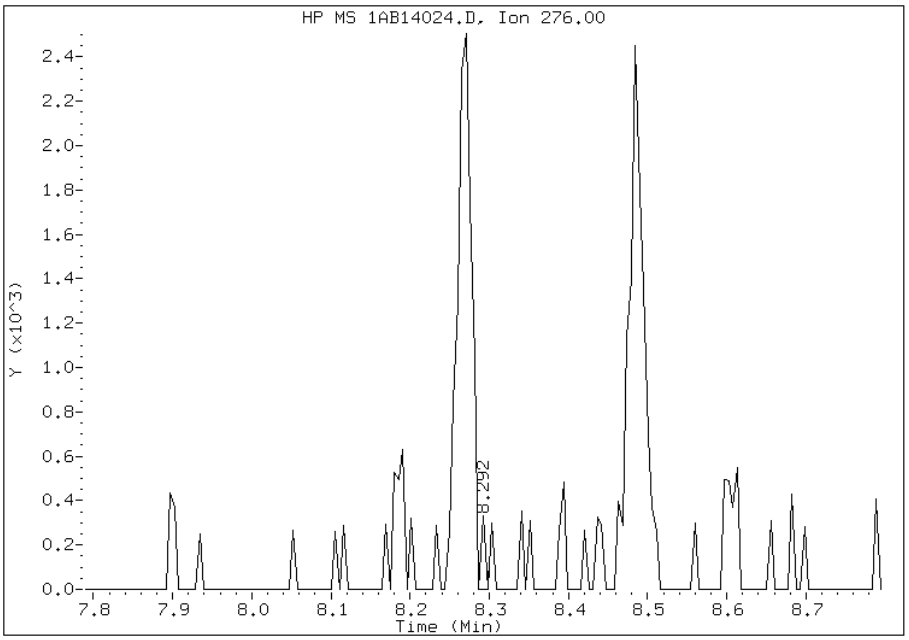
Processing Integration Results

RT: 8.29

Response: 106

Amount: 0

Conc: 1



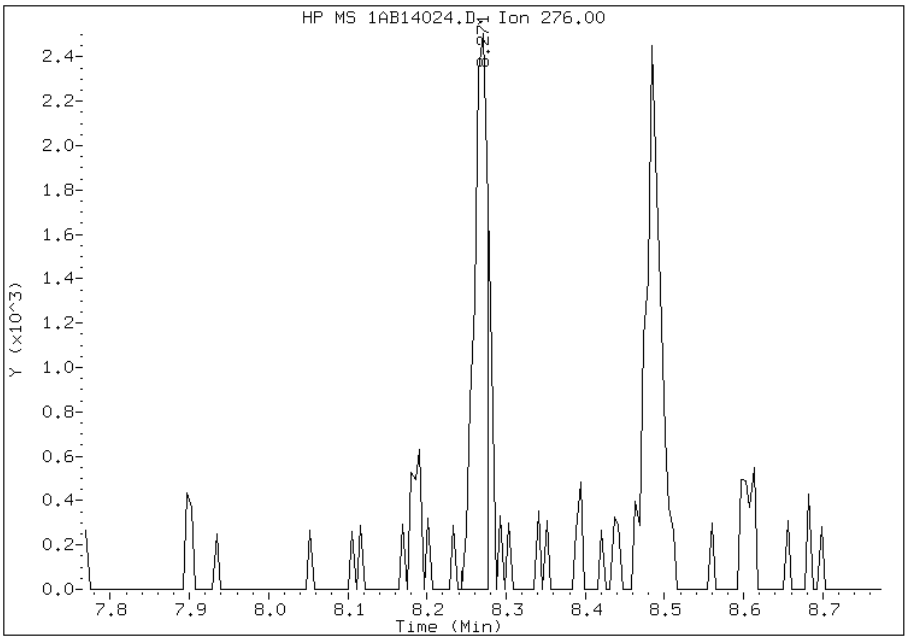
Manual Integration Results

RT: 8.27

Response: 2876

Amount: 0

Conc: 19



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0439B-CS | Lab Sample ID: 680-87218-37

Matrix: Solid | Lab File ID: 1AB14025.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 12:37

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 14.92(g) | Date Analyzed: 02/14/2013 15:54

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

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

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	11	J	46	5.8
120-12-7	Anthracene	18		9.7	4.8
56-55-3	Benzo[a]anthracene	67		9.2	4.5
50-32-8	Benzo[a]pyrene	73		12	6.0
205-99-2	Benzo[b]fluoranthene	120		14	7.0
191-24-2	Benzo[g,h,i]perylene	110		23	5.1
207-08-9	Benzo[k]fluoranthene	67		9.2	4.2
218-01-9	Chrysene	110		10	5.2
53-70-3	Dibenz(a,h)anthracene	46		23	4.7
206-44-0	Fluoranthene	100		23	4.6
86-73-7	Fluorene	9.2	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	68		23	8.2
90-12-0	1-Methylnaphthalene	28	J	46	5.1
91-57-6	2-Methylnaphthalene	54		46	8.2
91-20-3	Naphthalene	64		46	5.1
85-01-8	Phenanthrene	88		9.2	4.5
129-00-0	Pyrene	43		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14025.D
Lab Smp Id: 680-87218-A-37-A Client Smp ID: CV0439B-CS
Inj Date : 14-FEB-2013 15:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-37-a
Misc Info : 680-87218-A-37-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 25
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	14.920	Weight Extracted
M	12.840	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.431	2.430	(1.000)	787862	40.0000	
* 6 Acenaphthene-d10	164	3.462	3.461	(1.000)	473590	40.0000	
* 10 Phenanthrene-d10	188	4.413	4.402	(1.000)	663362	40.0000	
$ 14 o-Terphenyl	230	4.691	4.685	(1.063)	59097	6.13103	471.4651
* 18 Chrysene-d12	240	6.470	6.426	(1.000)	1067135	40.0000	(H)
* 23 Perylene-d12	264	7.607	7.527	(1.000)	1429080	40.0000	(H)
2 Naphthalene	128	2.442	2.441	(1.004)	15883	0.83056	63.8685
3 2-Methylnaphthalene	141	2.848	2.847	(1.171)	7159	0.69880	53.7364
4 1-Methylnaphthalene	142	2.901	2.900	(1.193)	4255	0.36691	28.2144
5 Acenaphthylene	152	3.376	3.371	(0.975)	2933	0.14026	10.7856
9 Fluorene	166	3.793	3.787	(1.096)	1709	0.12008	9.2342(Q)
11 Phenanthrene	178	4.429	4.418	(1.004)	20622	1.13854	87.5519
12 Anthracene	178	4.461	4.455	(1.011)	4253	0.23030	17.7099
13 Carbazole	167	4.621	4.610	(1.047)	2563	0.16191	12.4507(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.305	5.283	(1.202)	24403	1.35893	104.4991
16 Pyrene	202	5.476	5.454	(0.846)	21616	0.56088	43.1305(H)
17 Benzo(a)anthracene	228	6.459	6.416	(0.998)	27557	0.86485	66.5056(H)
19 Chrysene	228	6.486	6.448	(1.002)	43638	1.40506	108.0465(H)
20 Benzo(b)fluoranthene	252	7.319	7.244	(0.962)	60471	1.51610	116.5852(QMH)
21 Benzo(k)fluoranthene	252	7.324	7.265	(0.963)	36578	0.87713	67.4494(QMH)
22 Benzo(a)pyrene	252	7.549	7.479	(0.992)	36173	0.95503	73.4401(H)
24 Indeno(1,2,3-cd)pyrene	276	8.393	8.275	(1.103)	26329	0.88033	67.6955(MH)
25 Dibenzo(a,h)anthracene	278	8.393	8.291	(1.103)	17789	0.59496	45.7513(H)
26 Benzo(g,h,i)perylene	276	8.617	8.494	(1.133)	43158	1.39288	107.1096(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: 1AB14025.D

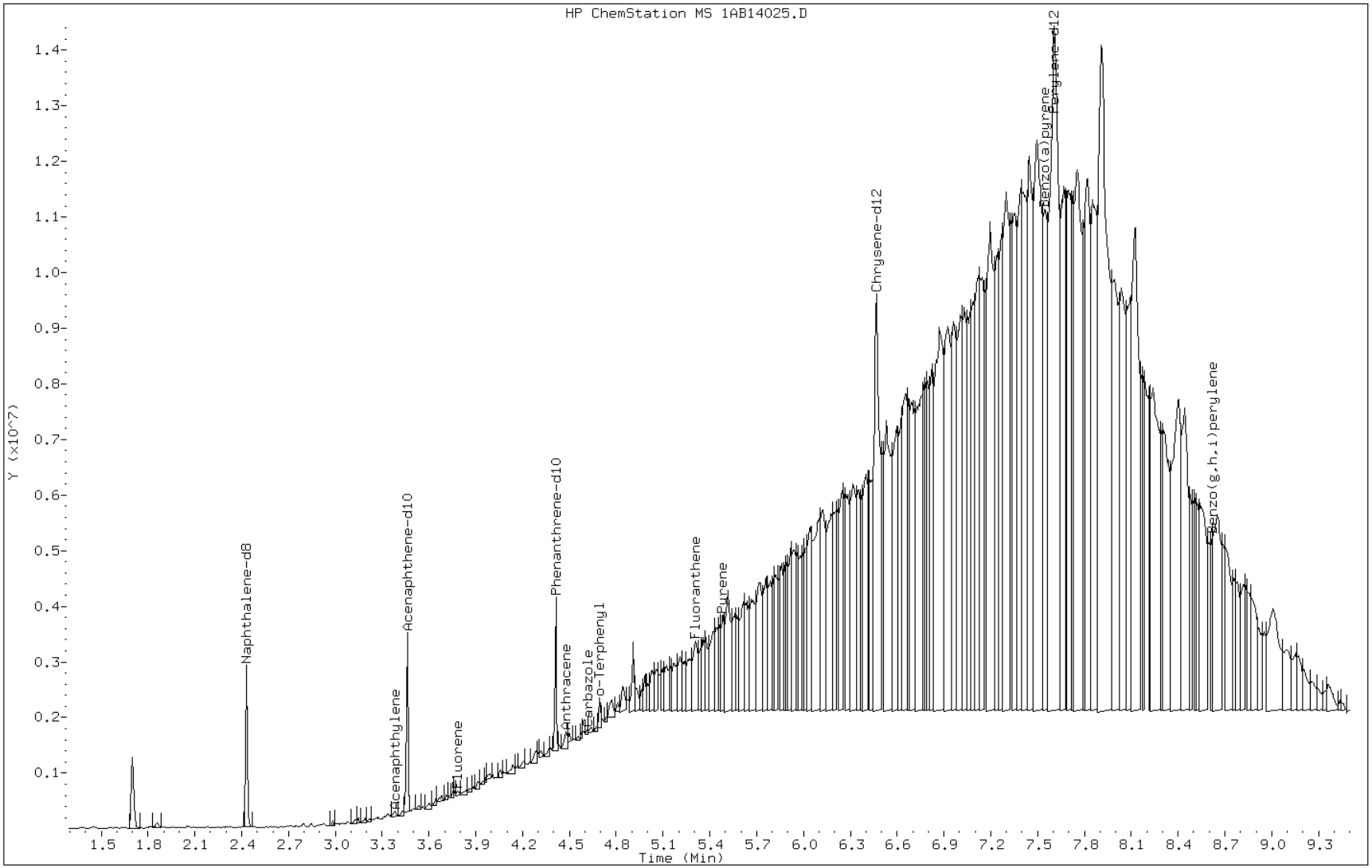
Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a

Operator: SCC



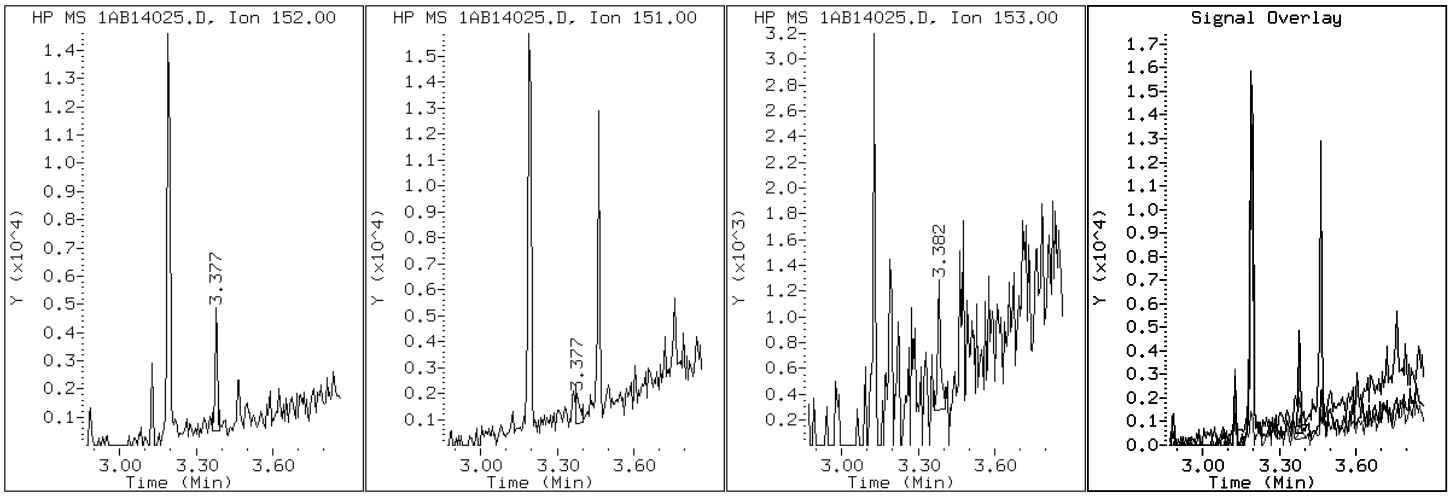
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

5 Acenaphthylene



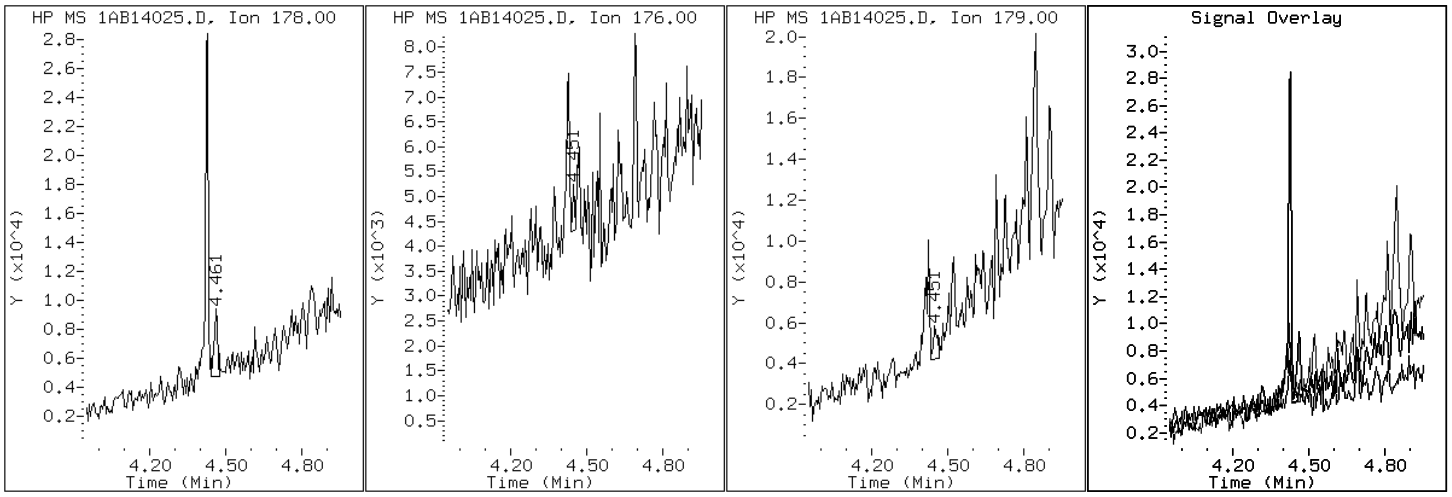
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

12 Anthracene



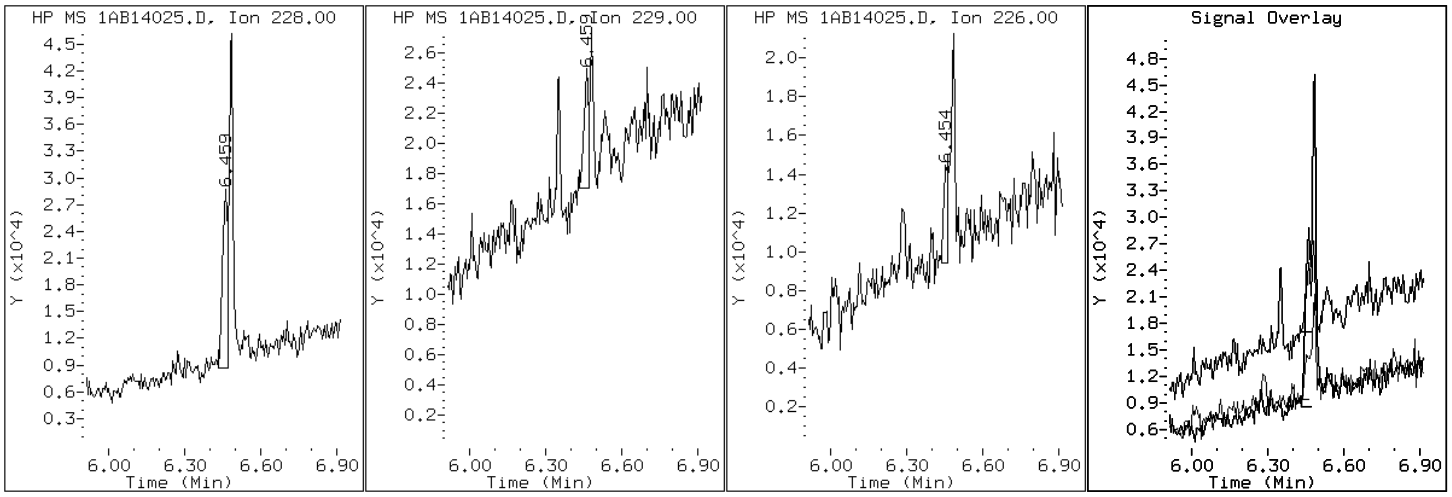
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

17 Benzo(a)anthracene



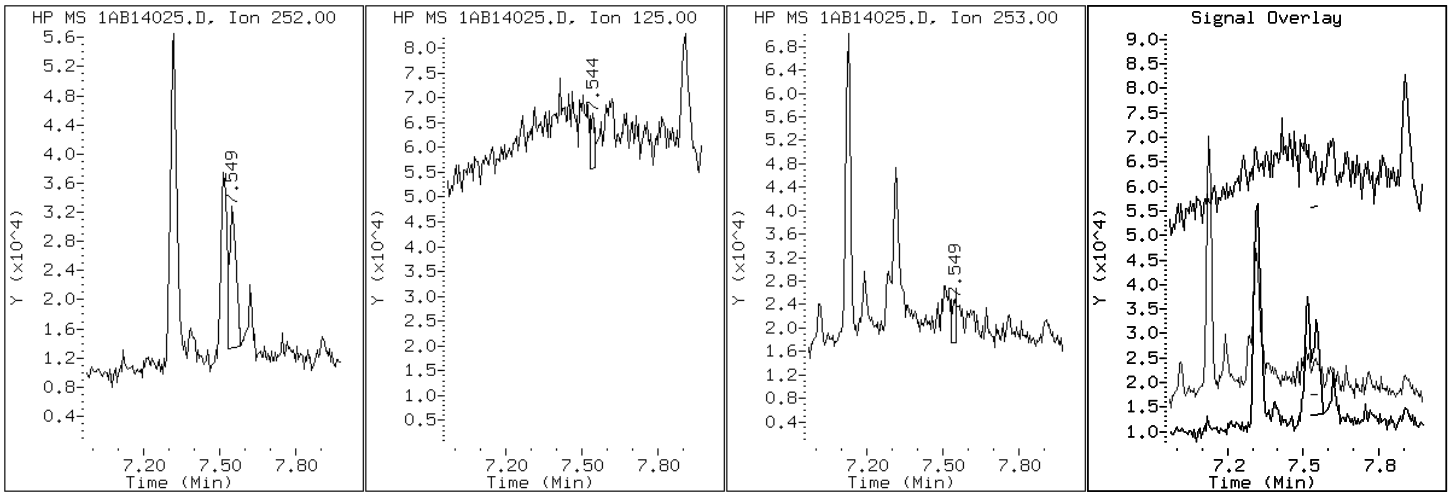
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

22 Benzo(a)pyrene



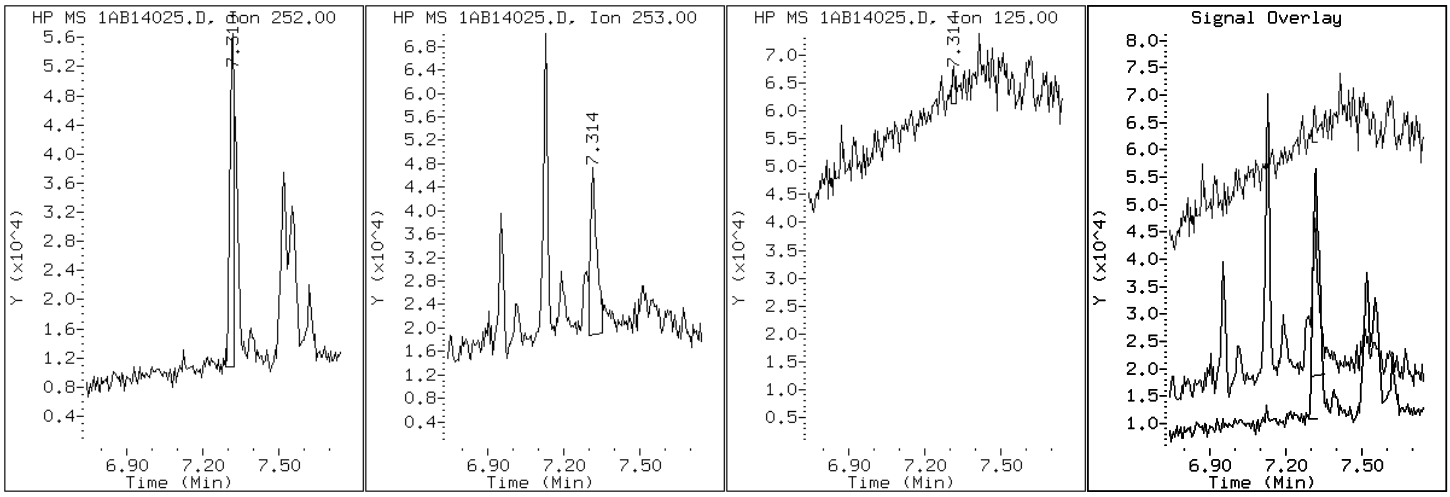
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

20 Benzo(b)fluoranthene



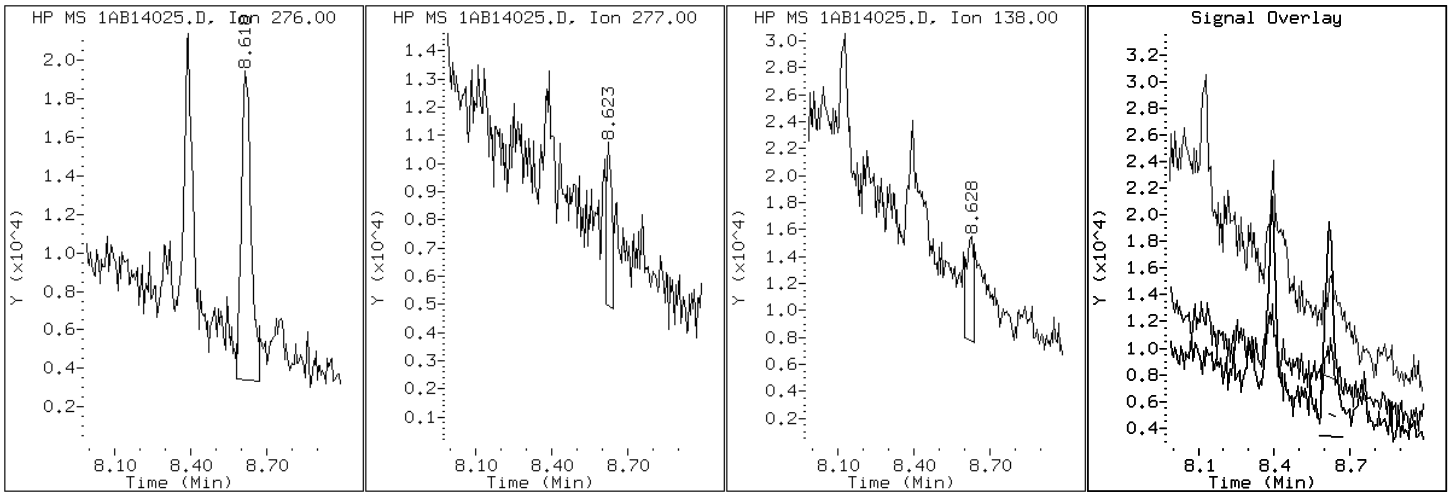
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

26 Benzo(g,h,i)perylene



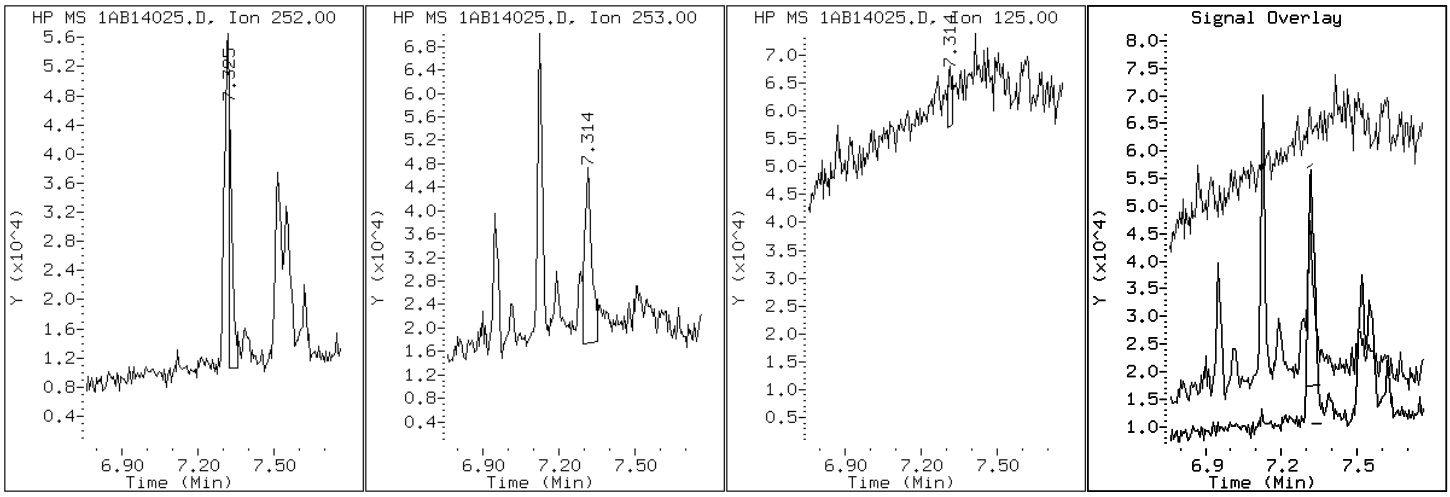
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

21 Benzo(k)fluoranthene



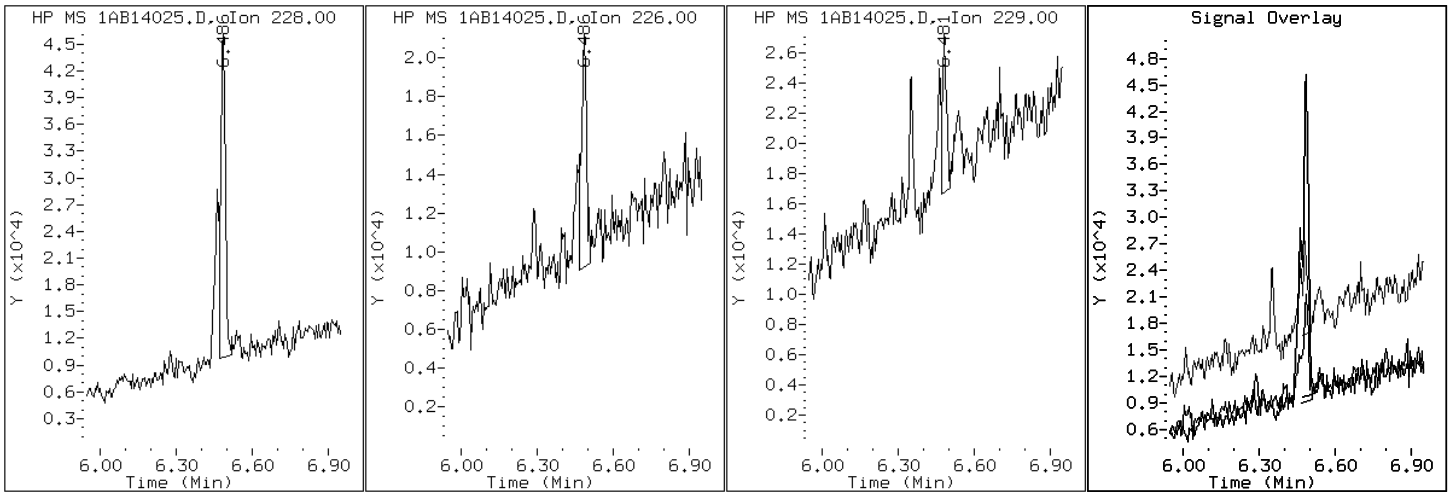
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

19 Chrysene



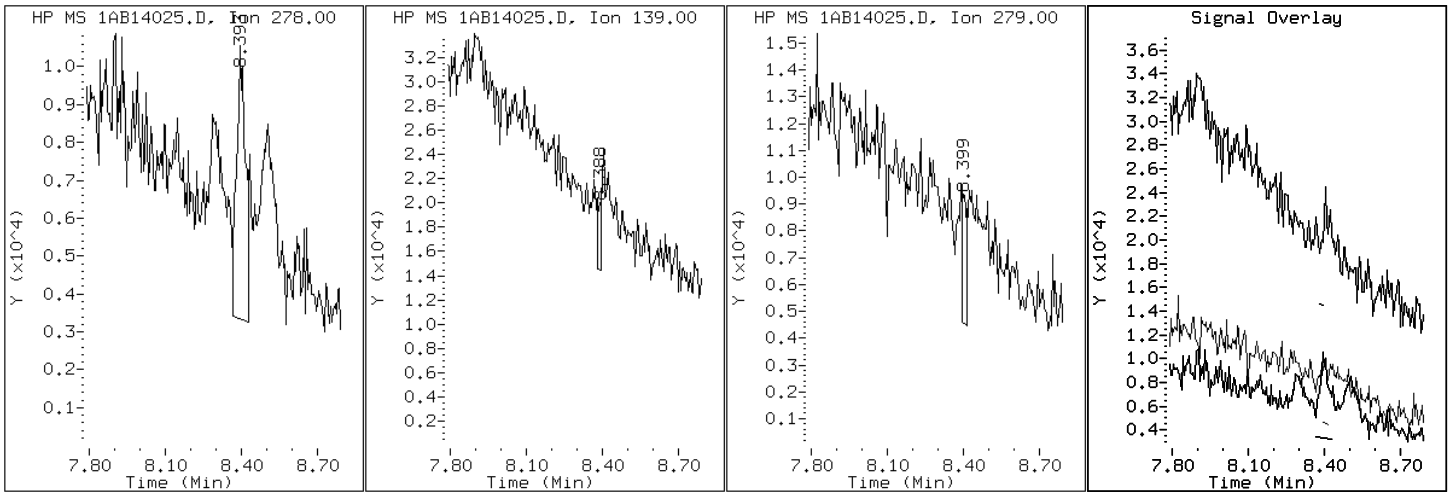
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

25 Dibenzo(a,h)anthracene



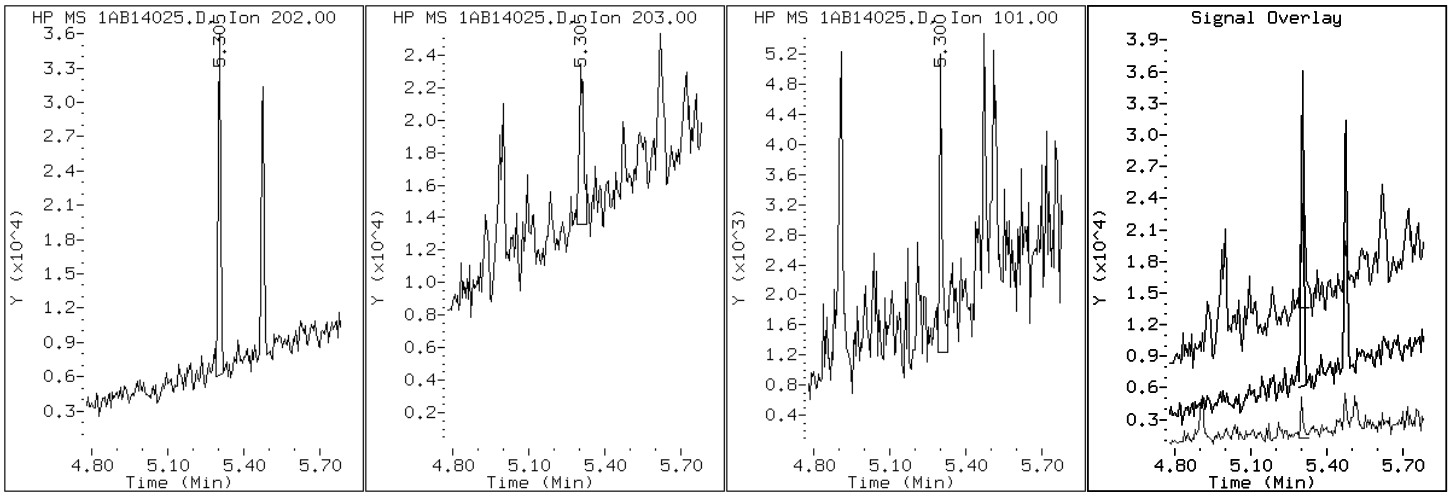
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

15 Fluoranthene



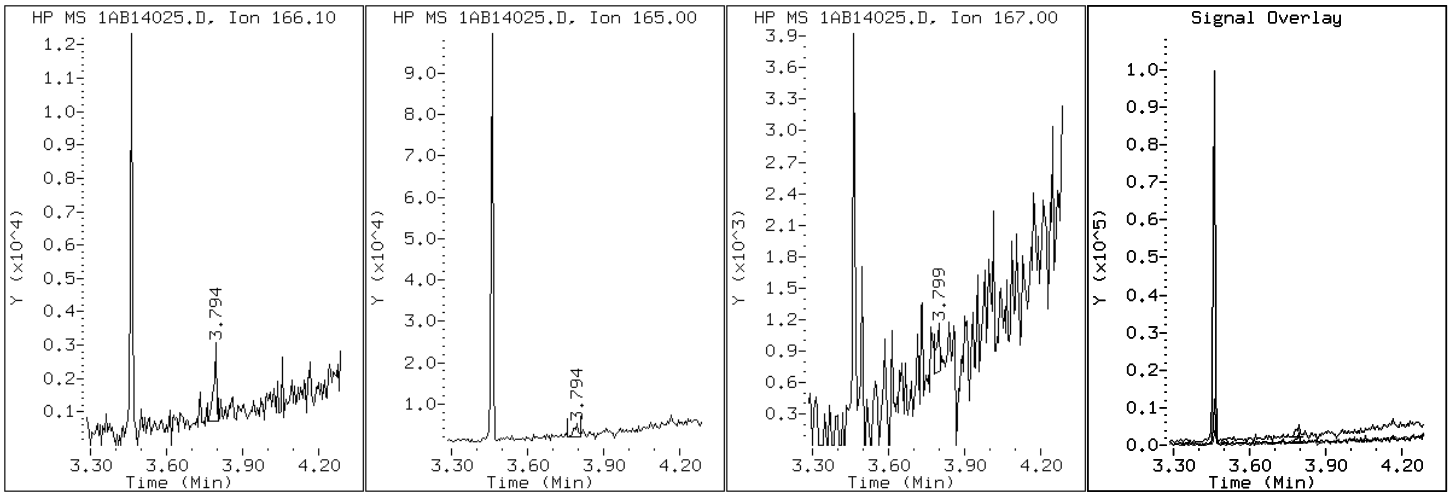
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

9 Fluorene



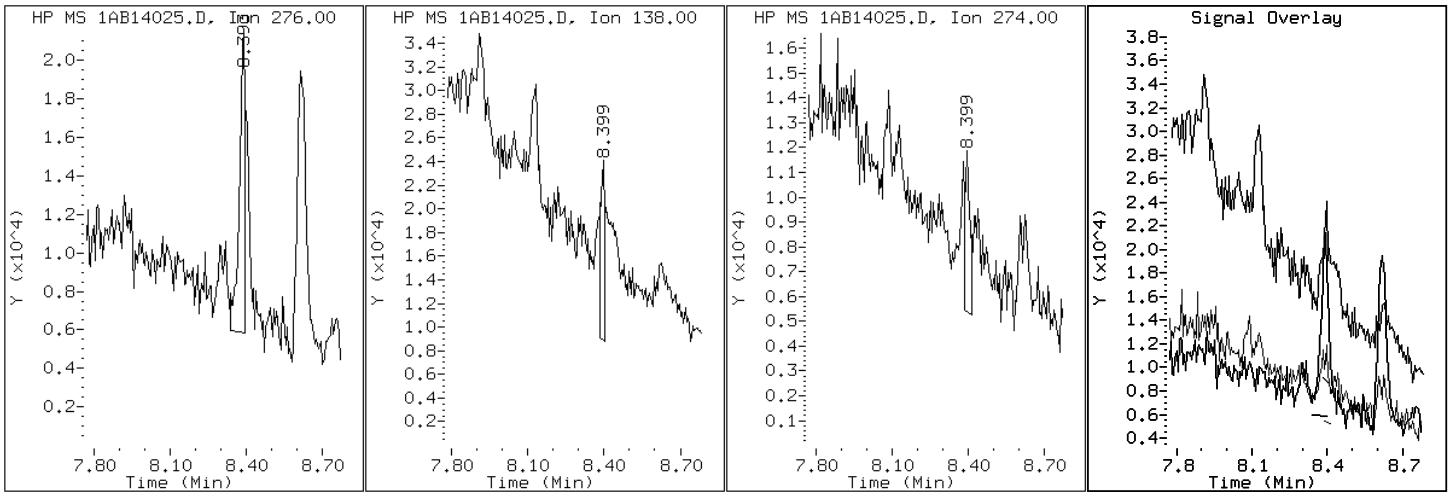
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

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



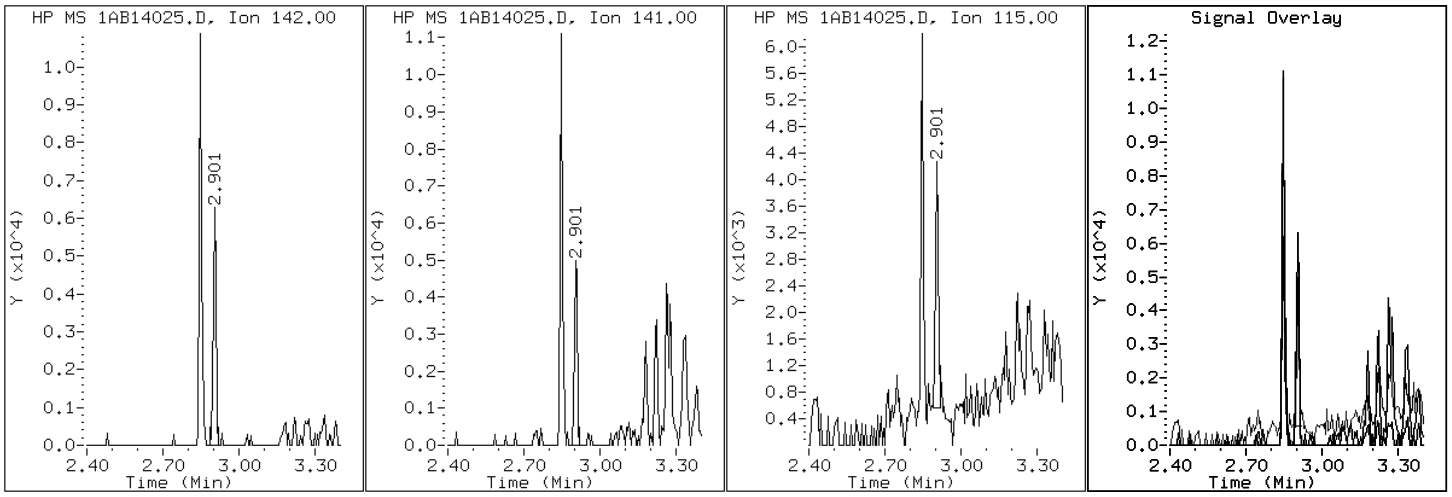
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

4 1-Methylnaphthalene



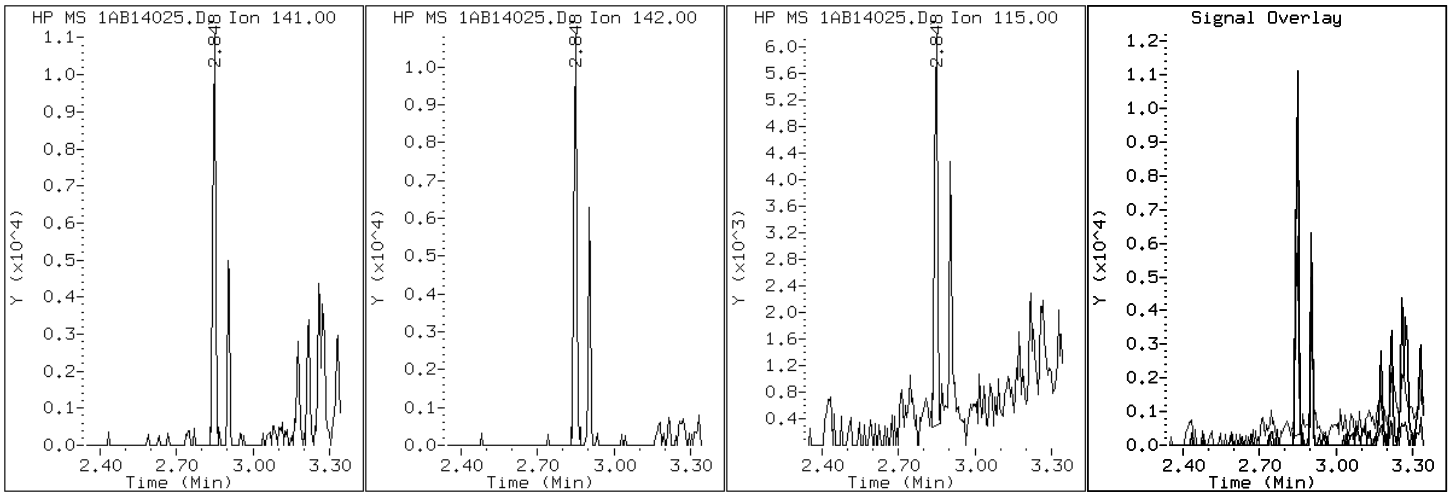
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

3 2-Methylnaphthalene



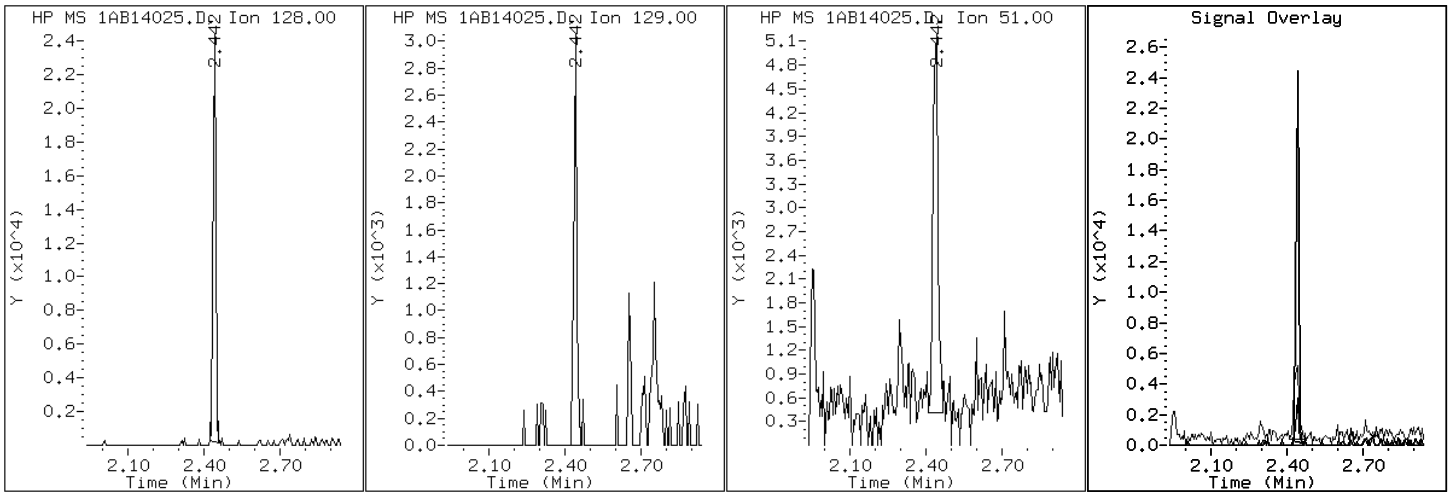
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

2 Naphthalene



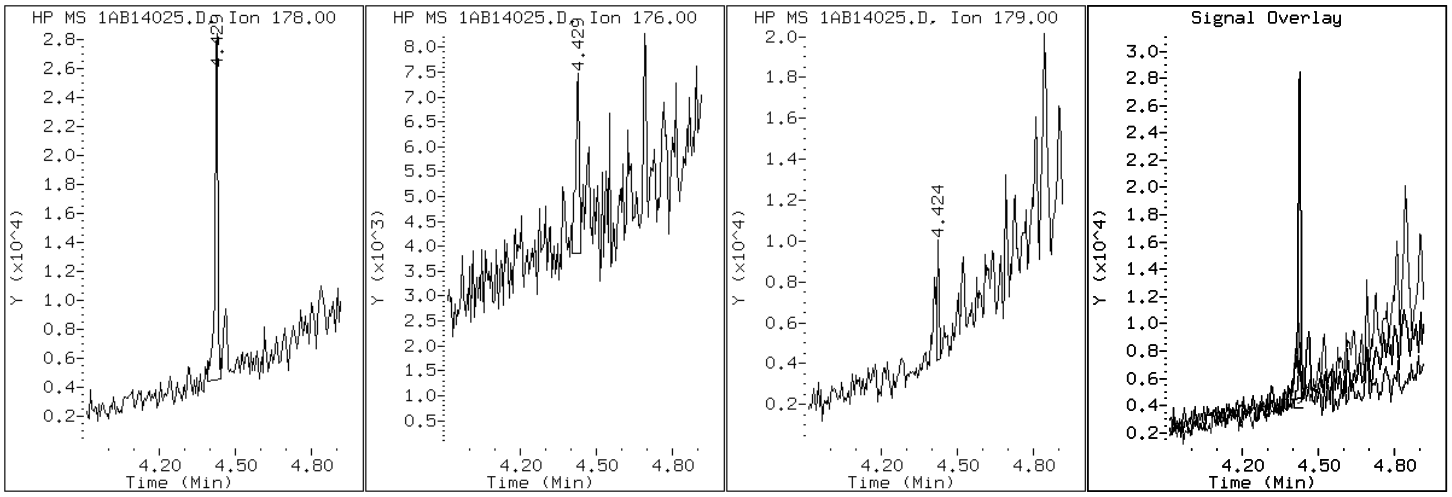
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

11 Phenanthrene



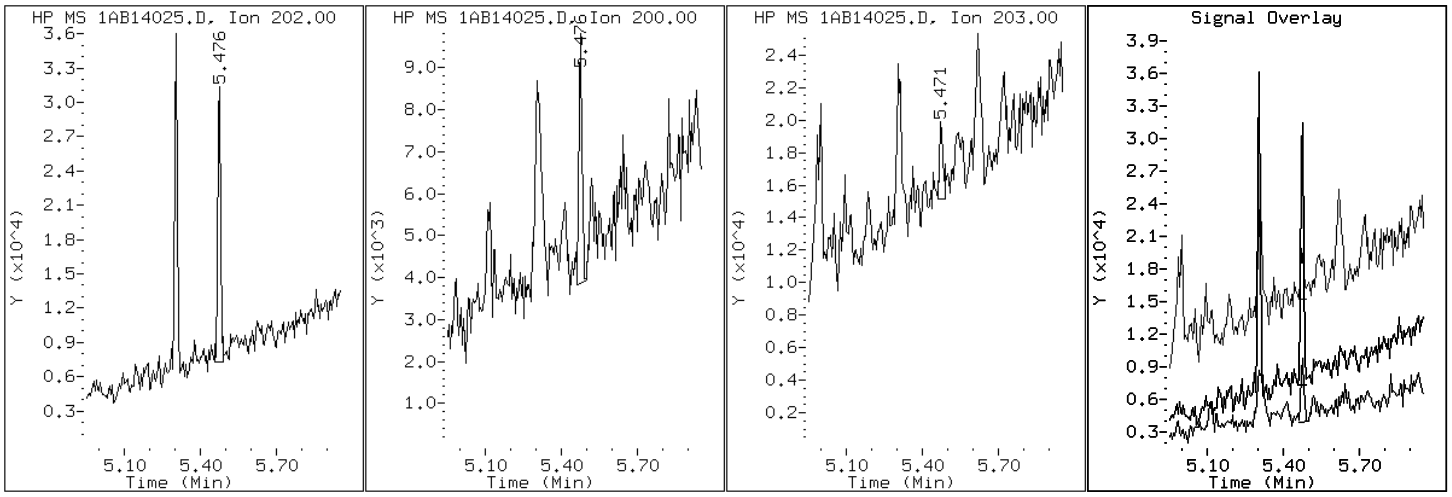
Data File: 1AB14025.D

Date: 14-FEB-2013 15:54

Client ID: CV0439B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-37-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14025.D
Inj. Date and Time: 14-FEB-2013 15:54
Instrument ID: BSMA5973.i
Client ID: CV0439B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

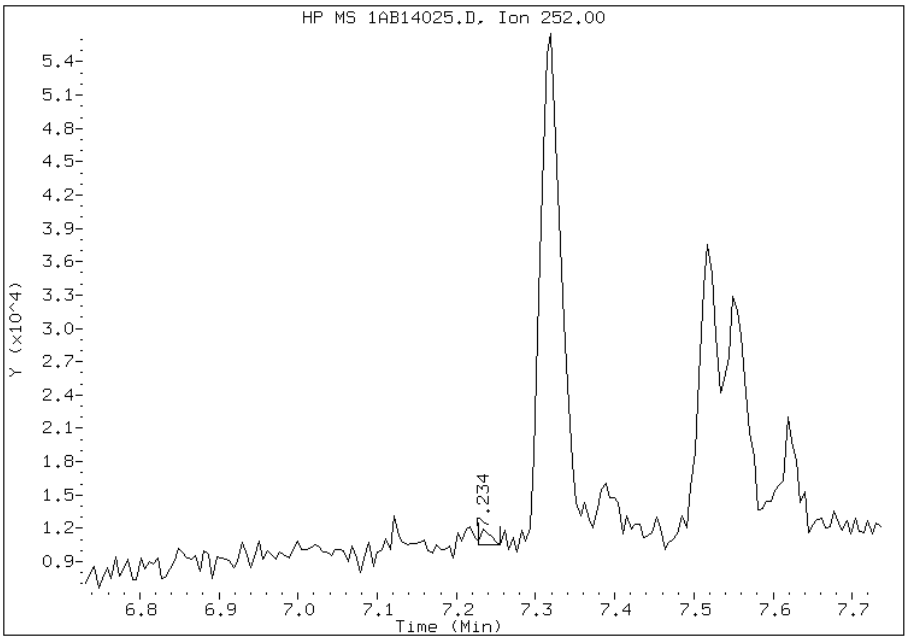
Processing Integration Results

RT: 7.23

Response: 1208

Amount: 0

Conc: 2



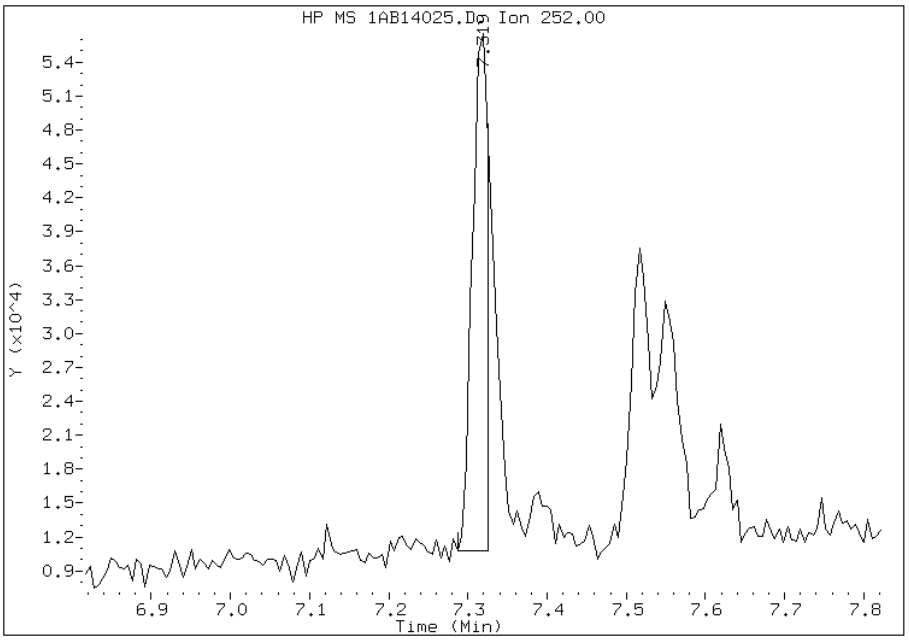
Manual Integration Results

RT: 7.32

Response: 60471

Amount: 2

Conc: 117



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14025.D
Inj. Date and Time: 14-FEB-2013 15:54
Instrument ID: BSMA5973.i
Client ID: CV0439B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

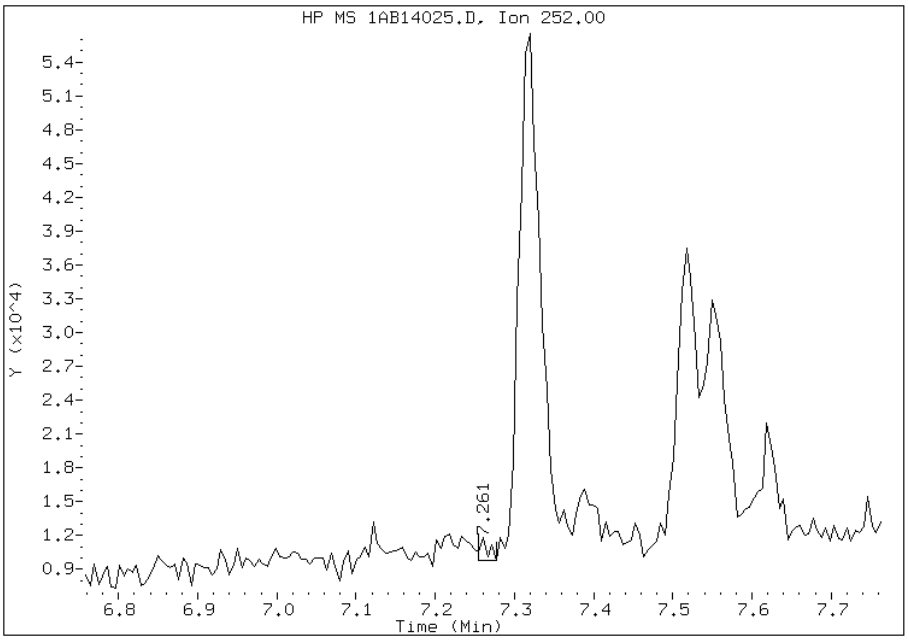
Processing Integration Results

RT: 7.26

Response: 1376

Amount: 0

Conc: 3



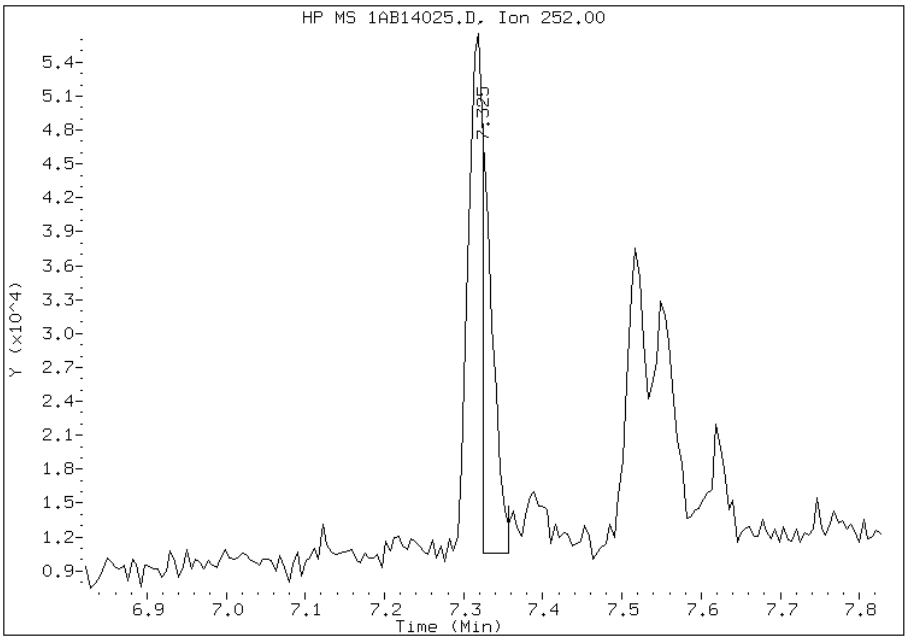
Manual Integration Results

RT: 7.32

Response: 36578

Amount: 1

Conc: 67



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14025.D
Inj. Date and Time: 14-FEB-2013 15:54
Instrument ID: BSMA5973.i
Client ID: CV0439B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

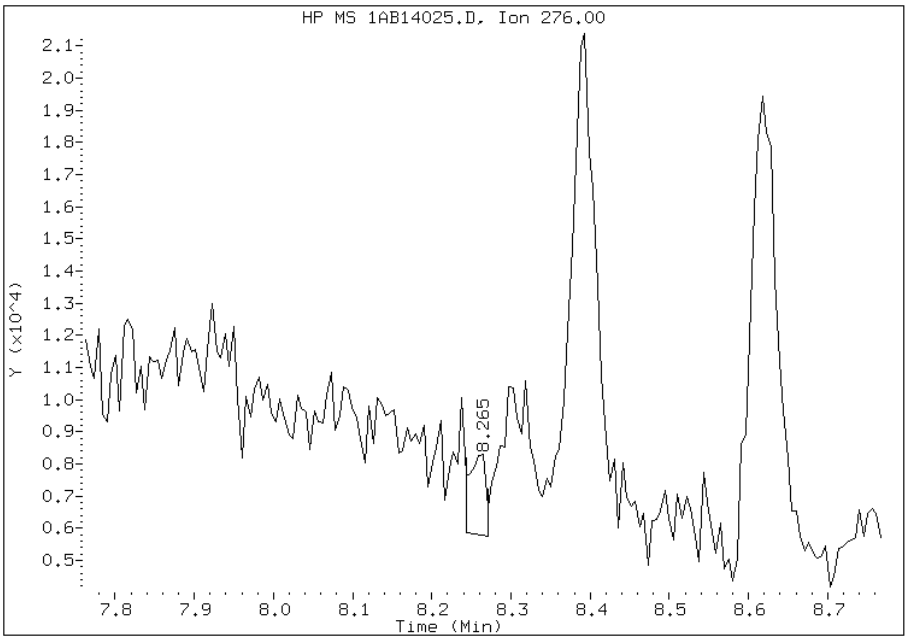
Processing Integration Results

RT: 8.26

Response: 3705

Amount: 0

Conc: 10



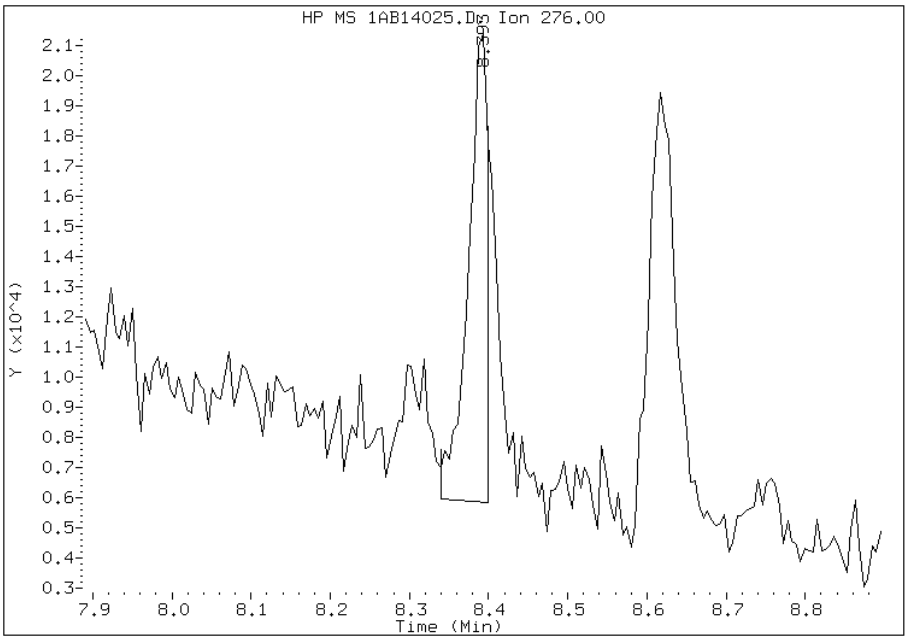
Manual Integration Results

RT: 8.39

Response: 26329

Amount: 1

Conc: 68



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0467A-CS | Lab Sample ID: 680-87218-38

Matrix: Solid | Lab File ID: 1AB14026.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 14:14

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.00(g) | Date Analyzed: 02/14/2013 16:09

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

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

% Moisture: 21.1 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	19	J	51	6.3
120-12-7	Anthracene	30		11	5.3
56-55-3	Benzo[a]anthracene	92		10	4.9
50-32-8	Benzo[a]pyrene	70		13	6.6
205-99-2	Benzo[b]fluoranthene	95		15	7.7
191-24-2	Benzo[g,h,i]perylene	75		25	5.6
207-08-9	Benzo[k]fluoranthene	52		10	4.6
218-01-9	Chrysene	100		11	5.7
53-70-3	Dibenz(a,h)anthracene	27		25	5.2
206-44-0	Fluoranthene	120		25	5.1
86-73-7	Fluorene	5.6	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	67		25	9.0
90-12-0	1-Methylnaphthalene	23	J	51	5.6
91-57-6	2-Methylnaphthalene	23	J	51	9.0
91-20-3	Naphthalene	23	J	51	5.6
85-01-8	Phenanthrene	74		10	4.9
129-00-0	Pyrene	75		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14026.D
Lab Smp Id: 680-87218-A-38-A Client Smp ID: CV0467A-CS
Inj Date : 14-FEB-2013 16:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-38-a
Misc Info : 680-87218-A-38-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 26
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	21.073	% 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	2.439	2.430	(1.000)	759260	40.0000	
* 6 Acenaphthene-d10	164	3.465	3.461	(1.000)	507565	40.0000	
* 10 Phenanthrene-d10	188	4.416	4.402	(1.000)	499480	40.0000	
$ 14 o-Terphenyl	230	4.693	4.685	(1.063)	51499	7.09576	599.3509
* 18 Chrysene-d12	240	6.446	6.426	(1.000)	508399	40.0000	
* 23 Perylene-d12	264	7.546	7.527	(1.000)	713964	40.0000	
2 Naphthalene	128	2.450	2.441	(1.004)	5078	0.27554	23.2740(Q)
3 2-Methylnaphthalene	141	2.850	2.847	(1.169)	2704	0.27388	23.1338
4 1-Methylnaphthalene	142	2.909	2.900	(1.193)	2987	0.26727	22.5752
5 Acenaphthylene	152	3.379	3.371	(0.975)	5110	0.22801	19.2588
9 Fluorene	166	3.796	3.787	(1.096)	1005	0.06589	5.5654
11 Phenanthrene	178	4.426	4.418	(1.002)	11945	0.87587	73.9808
12 Anthracene	178	4.464	4.455	(1.011)	4883	0.35118	29.6624
13 Carbazole	167	4.618	4.610	(1.046)	1854	0.15555	13.1387

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.297	5.283	(1.200)	19839	1.46725	123.9331
16 Pyrene	202	5.463	5.454	(0.848)	16273	0.88629	74.8613
17 Benzo(a)anthracene	228	6.435	6.416	(0.998)	16473	1.08517	91.6600
19 Chrysene	228	6.456	6.448	(1.002)	17432	1.17813	99.5116
20 Benzo(b)fluoranthene	252	7.258	7.244	(0.962)	22301	1.11914	94.5293(M)
21 Benzo(k)fluoranthene	252	7.268	7.265	(0.963)	12746	0.61178	51.6747(MH)
22 Benzo(a)pyrene	252	7.493	7.479	(0.993)	15659	0.82752	69.8970
24 Indeno(1,2,3-cd)pyrene	276	8.289	8.275	(1.098)	11891	0.79581	67.2187(M)
25 Dibenzo(a,h)anthracene	278	8.294	8.291	(1.099)	4769	0.31926	26.9665
26 Benzo(g,h,i)perylene	276	8.508	8.494	(1.127)	13694	0.88463	74.7211

QC Flag Legend

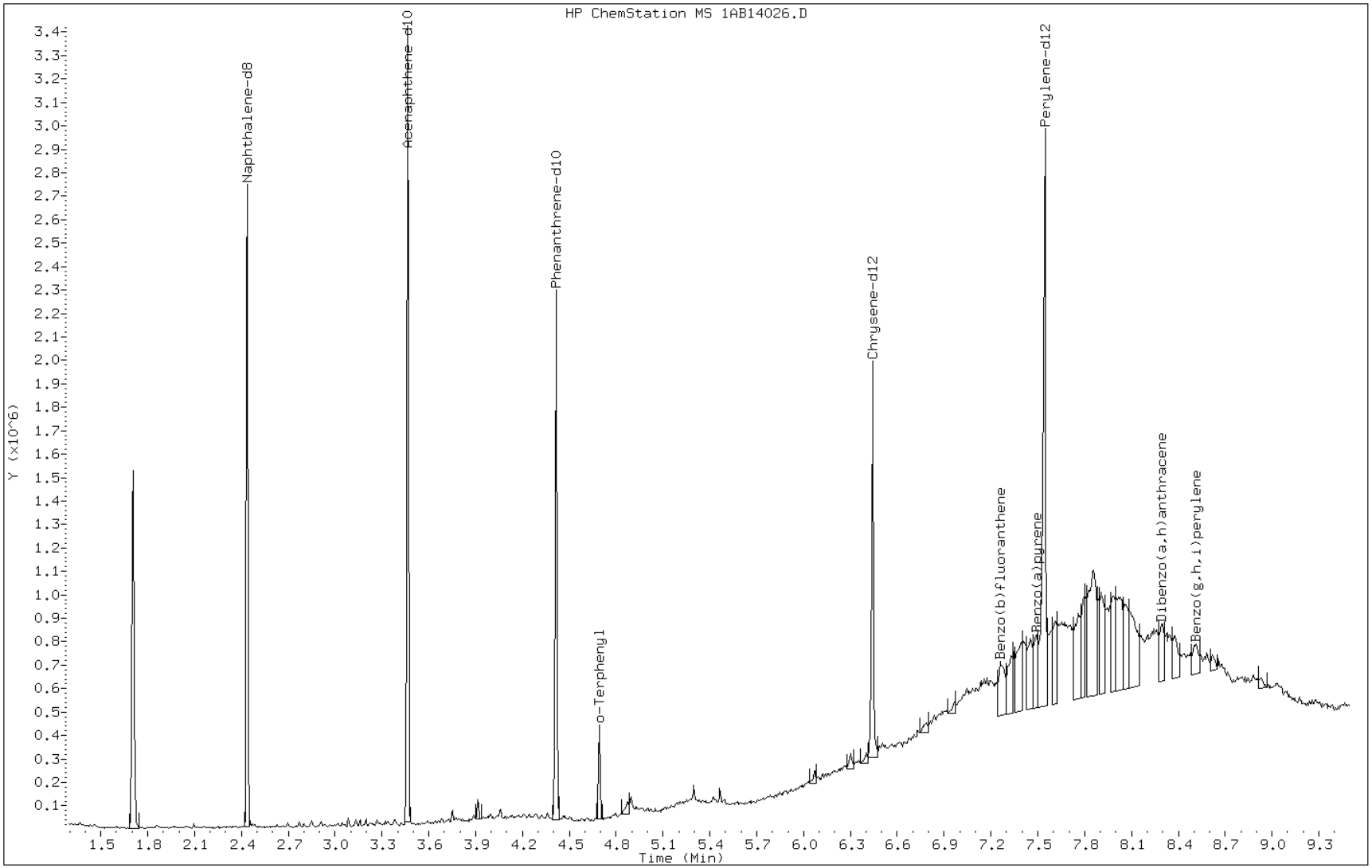
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC



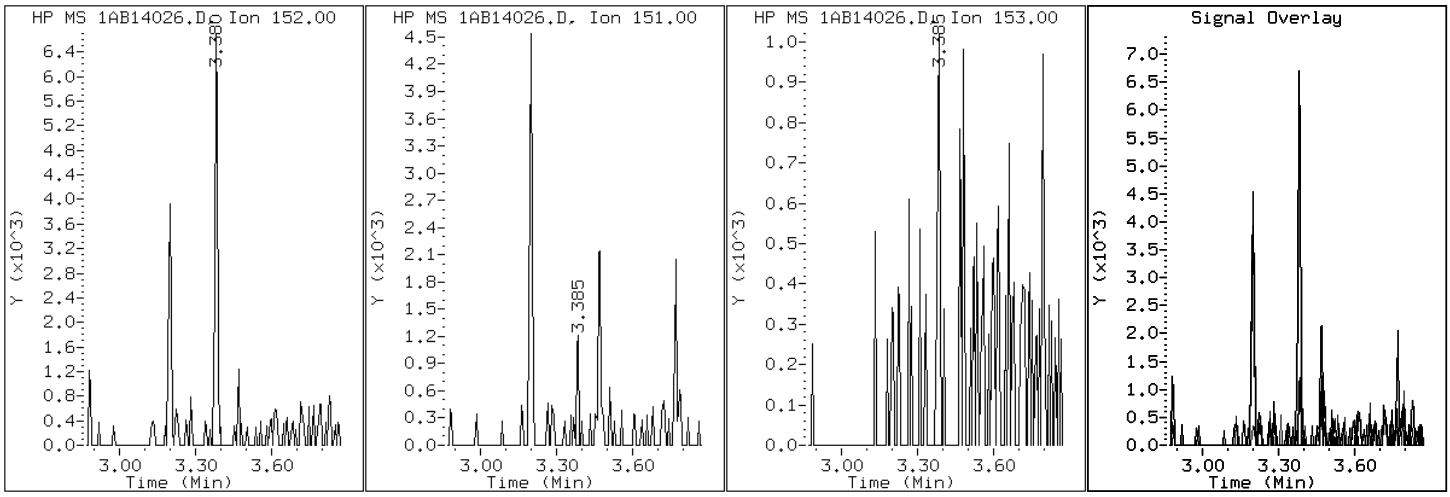
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

5 Acenaphthylene



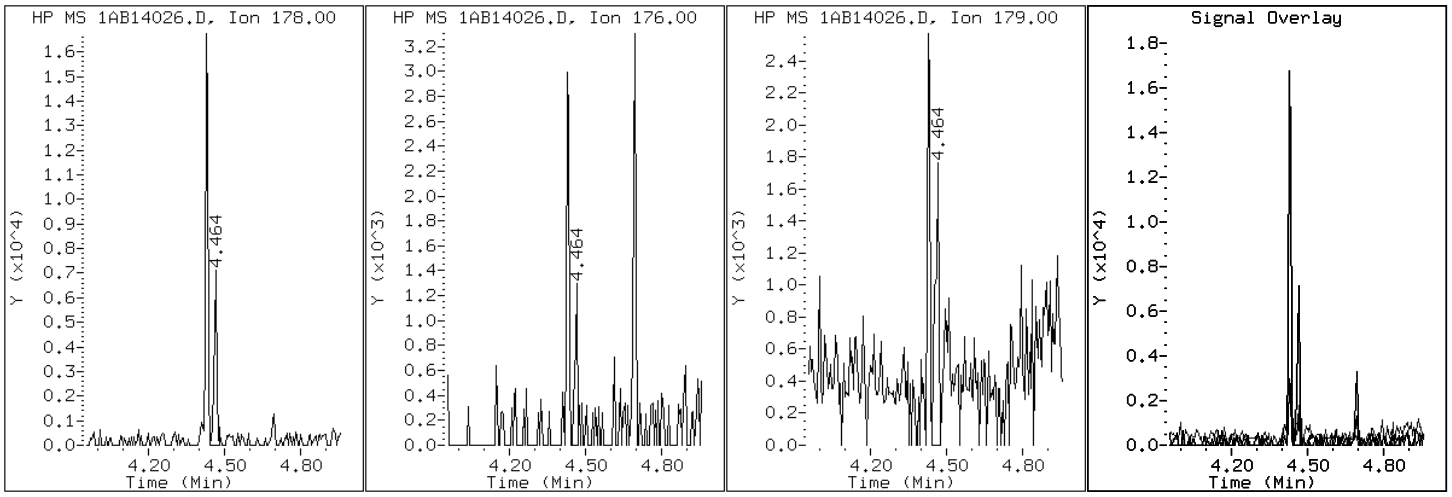
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

12 Anthracene



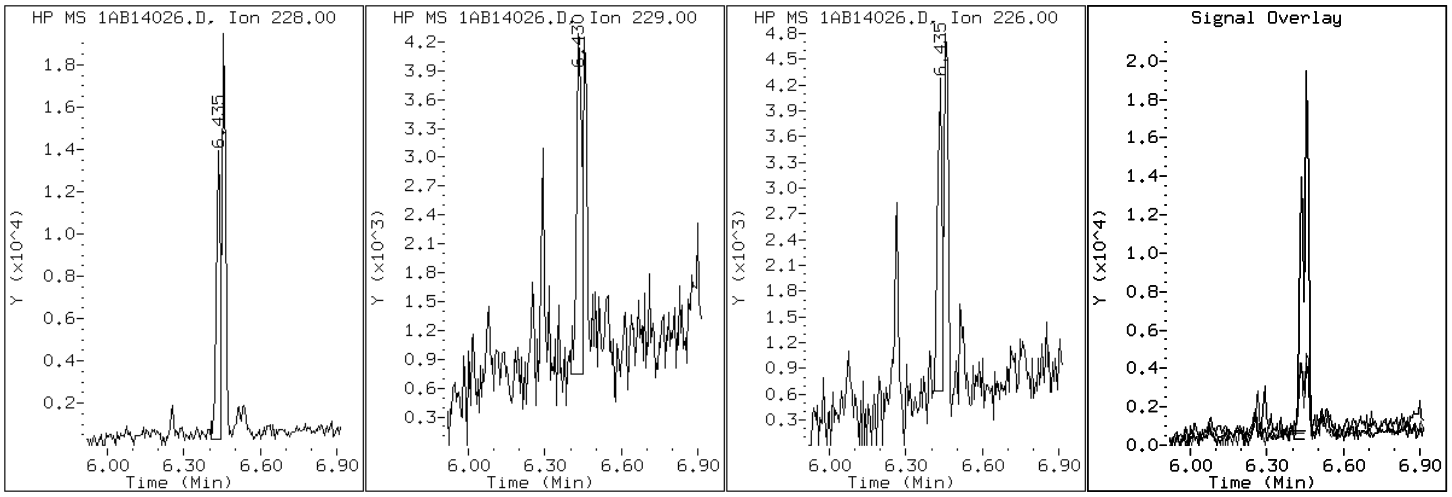
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

17 Benzo(a)anthracene



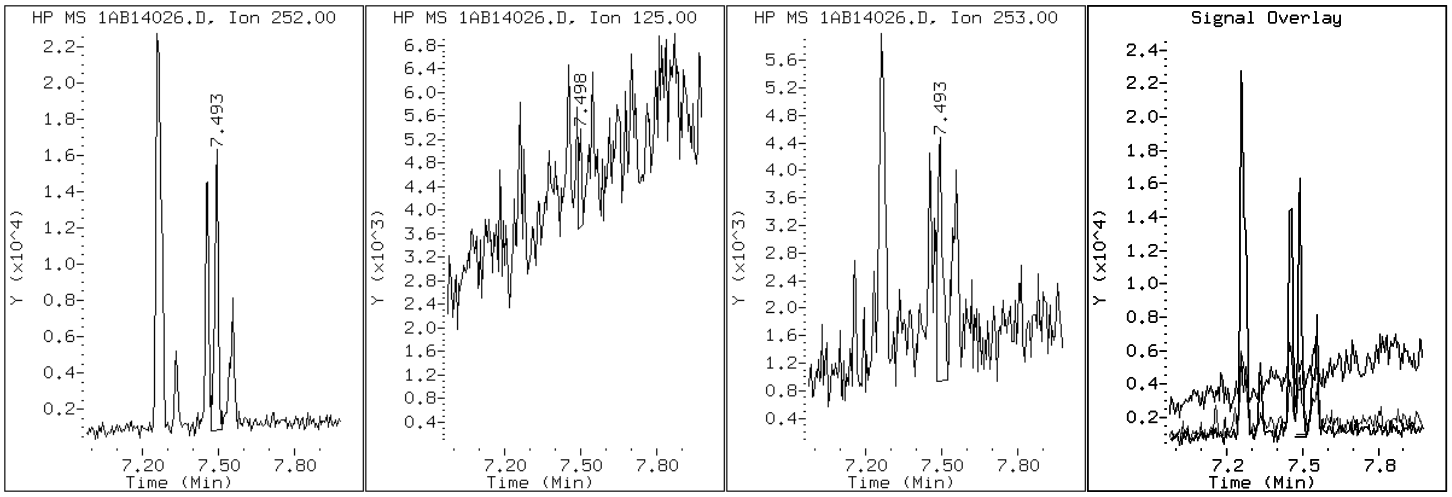
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

22 Benzo(a)pyrene



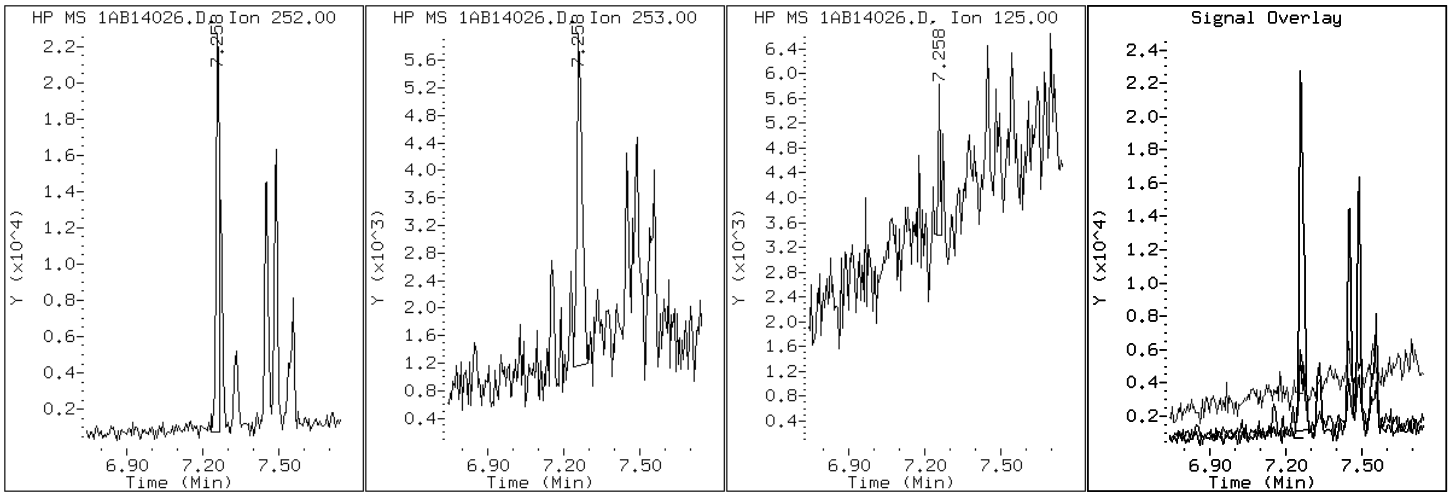
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

20 Benzo(b)fluoranthene



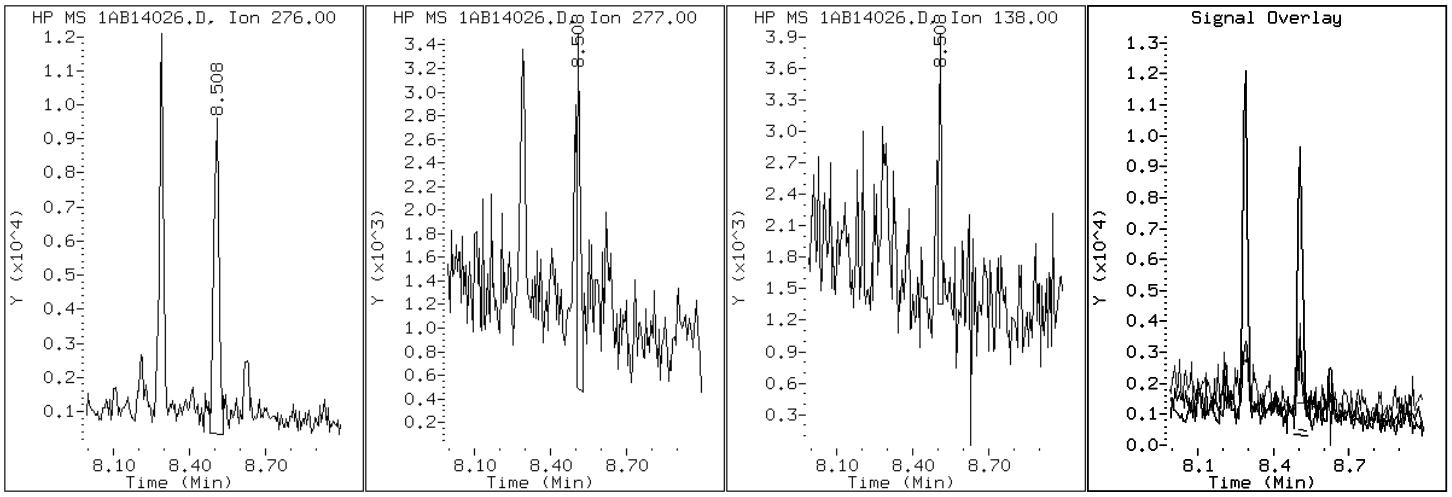
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

26 Benzo(g,h,i)perylene



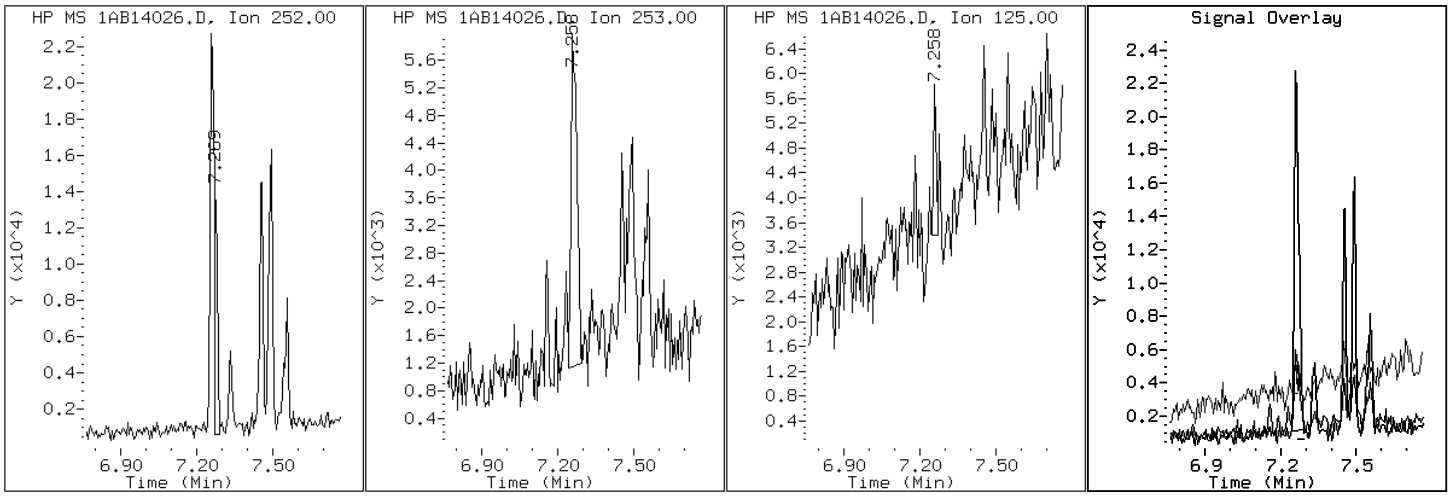
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

21 Benzo(k)fluoranthene



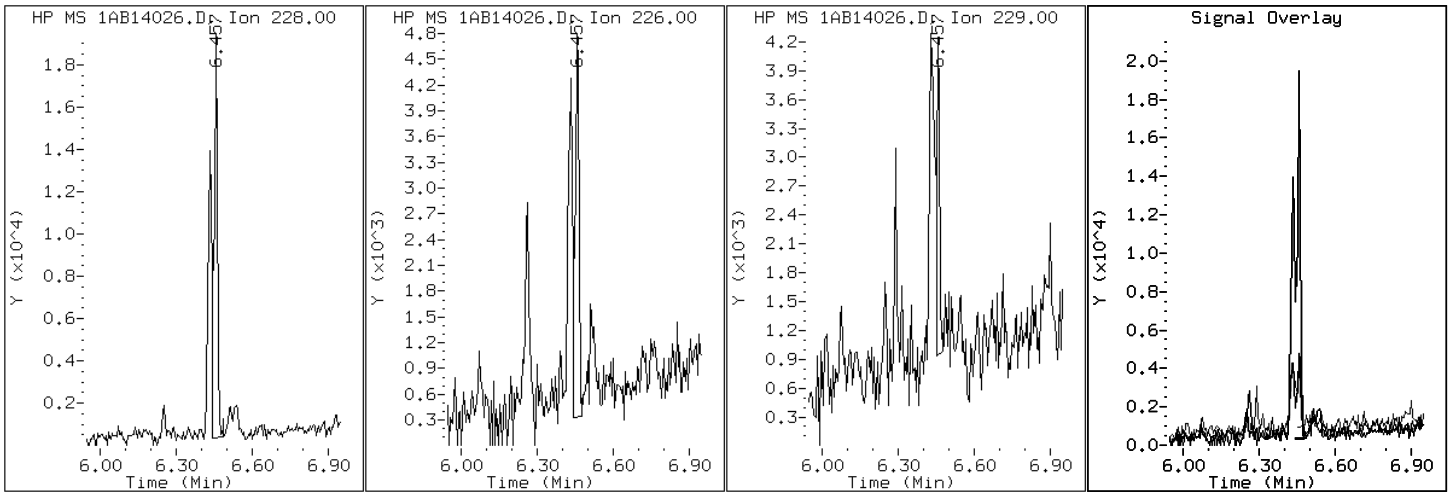
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

19 Chrysene



Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

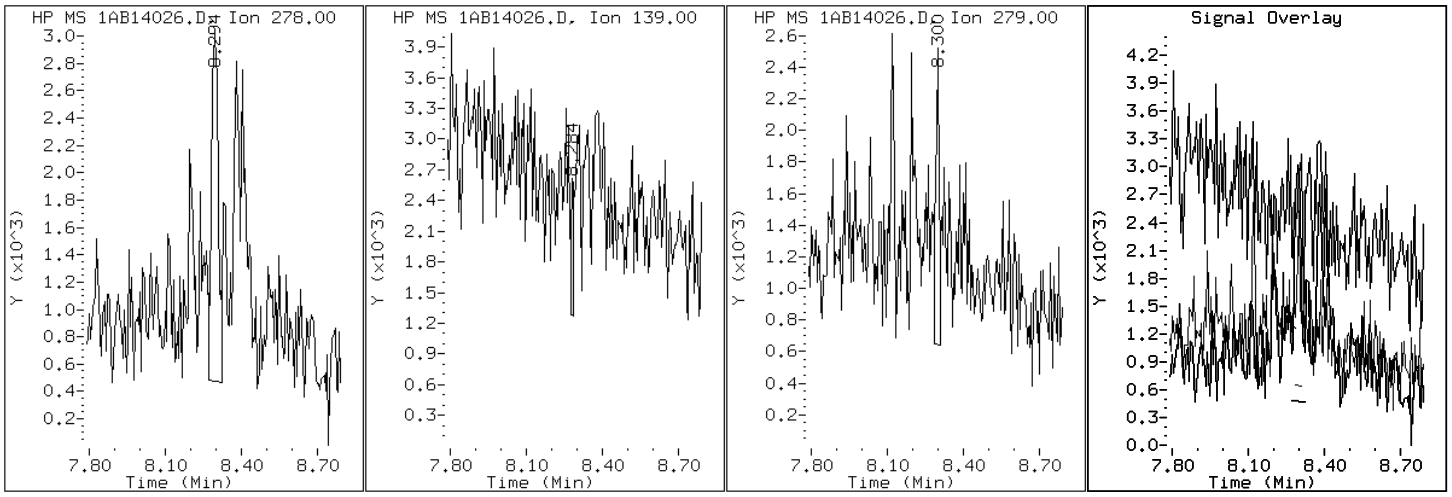
Client ID: CV0467A-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a

Operator: SCC

25 Dibenzo(a,h)anthracene



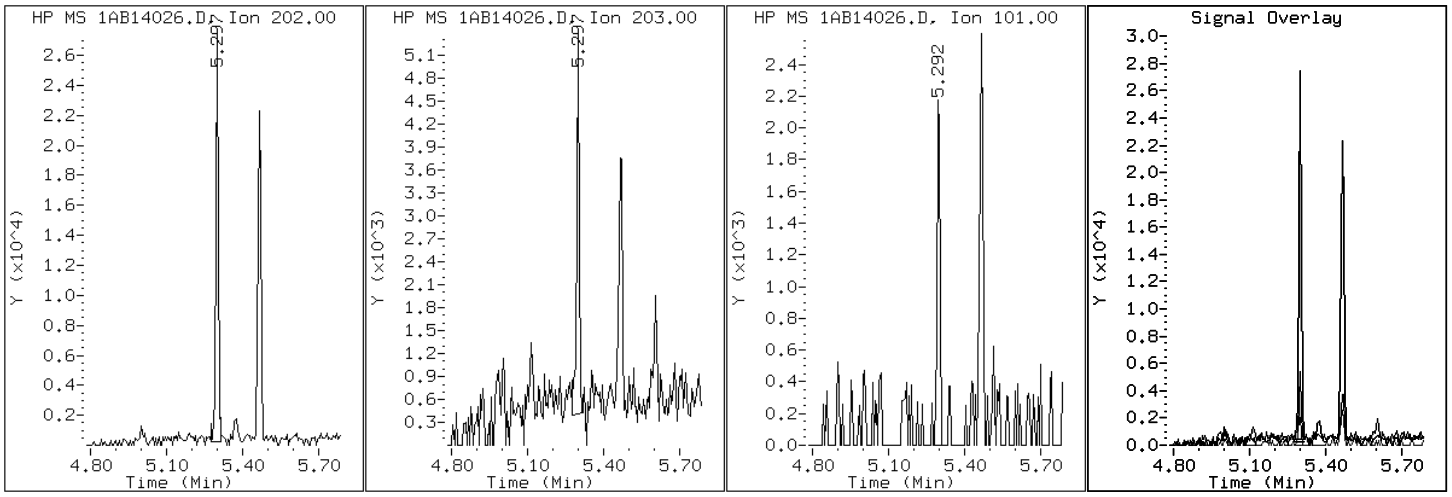
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

15 Fluoranthene



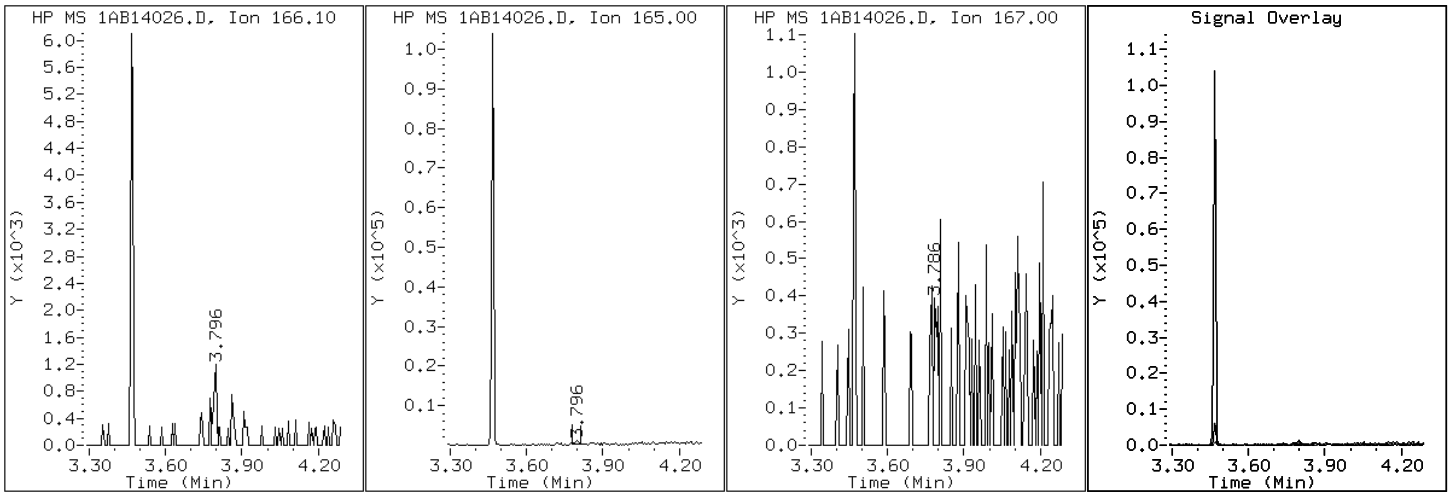
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

9 Fluorene



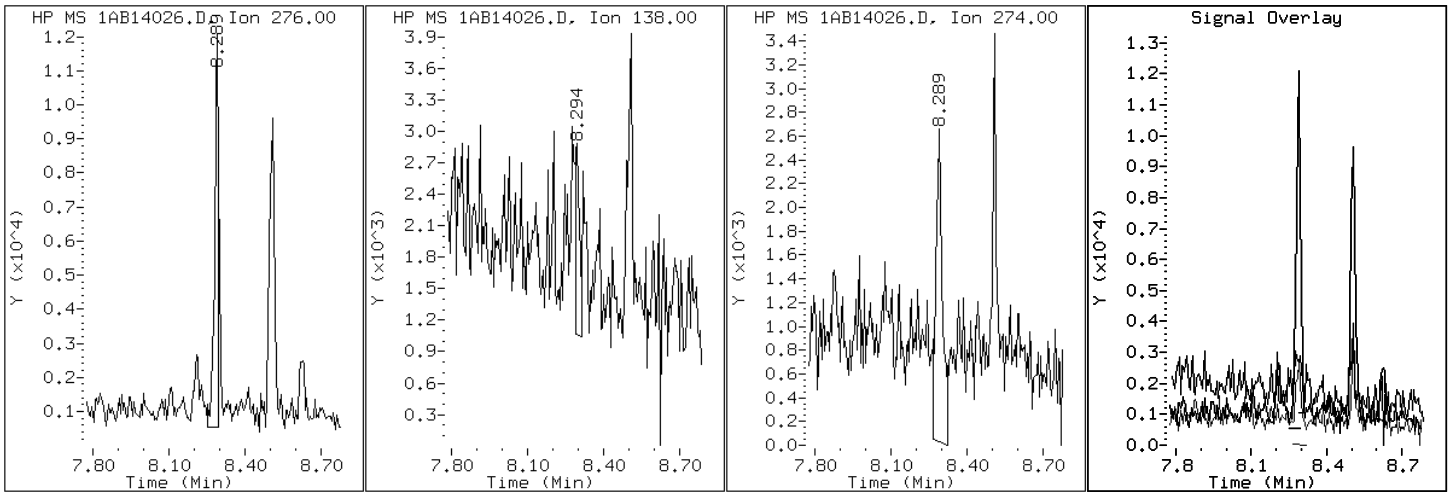
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS | Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a | Operator: SCC

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



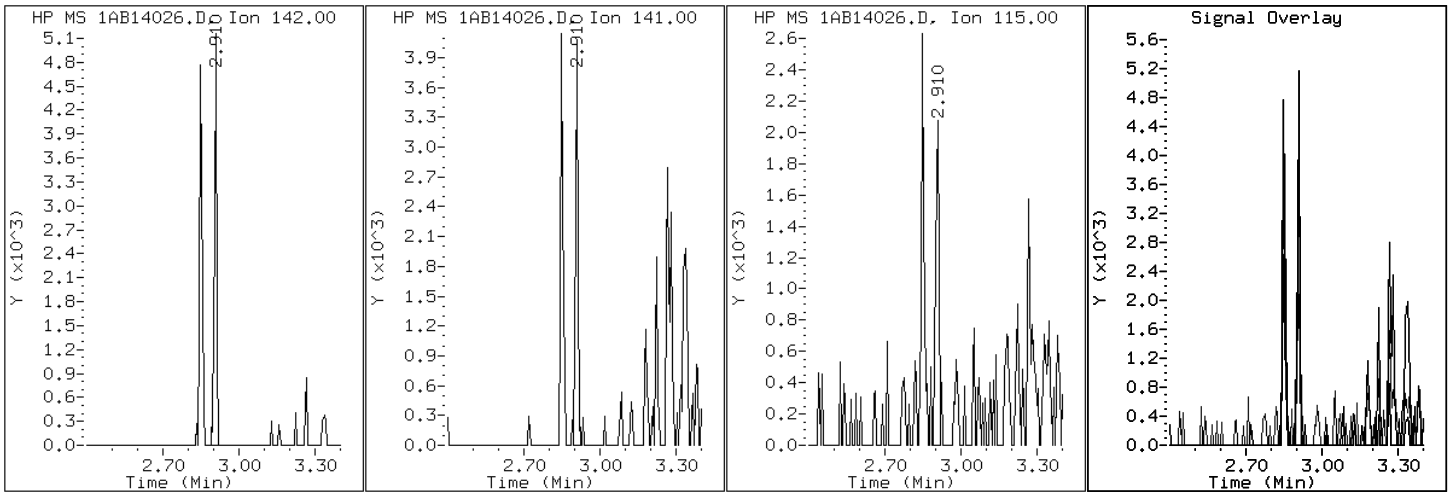
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

4 1-Methylnaphthalene



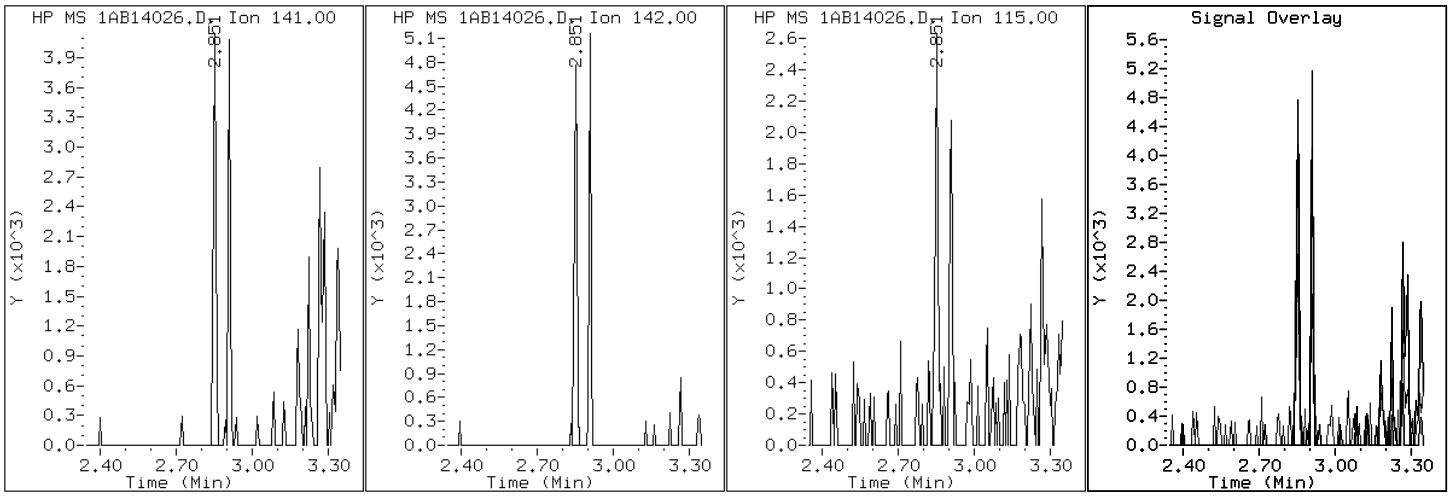
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

3 2-Methylnaphthalene



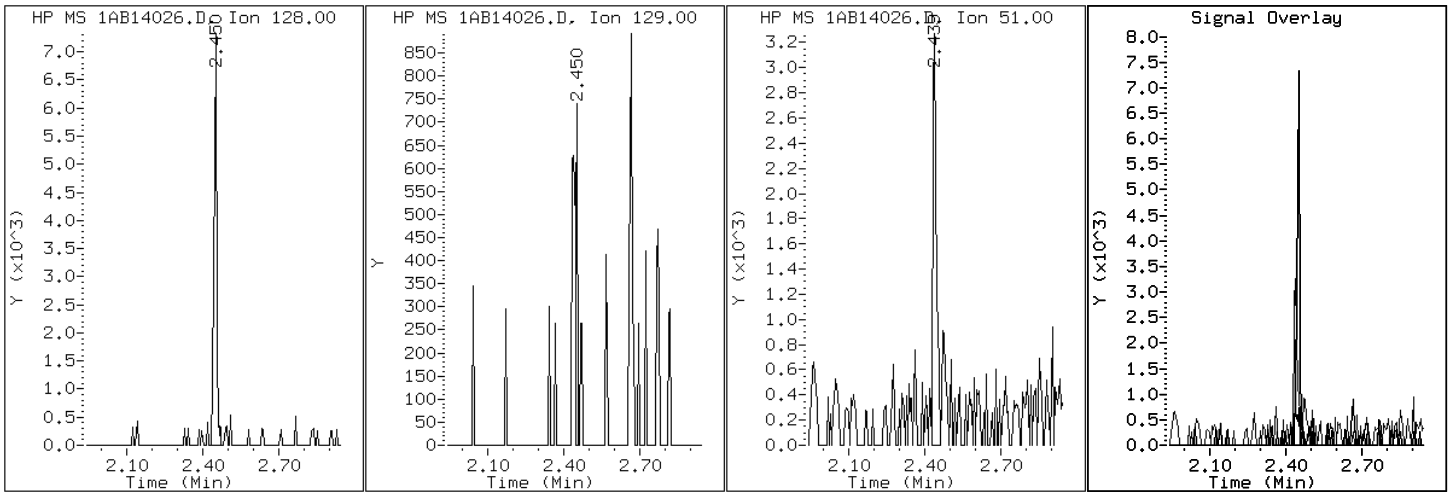
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

2 Naphthalene



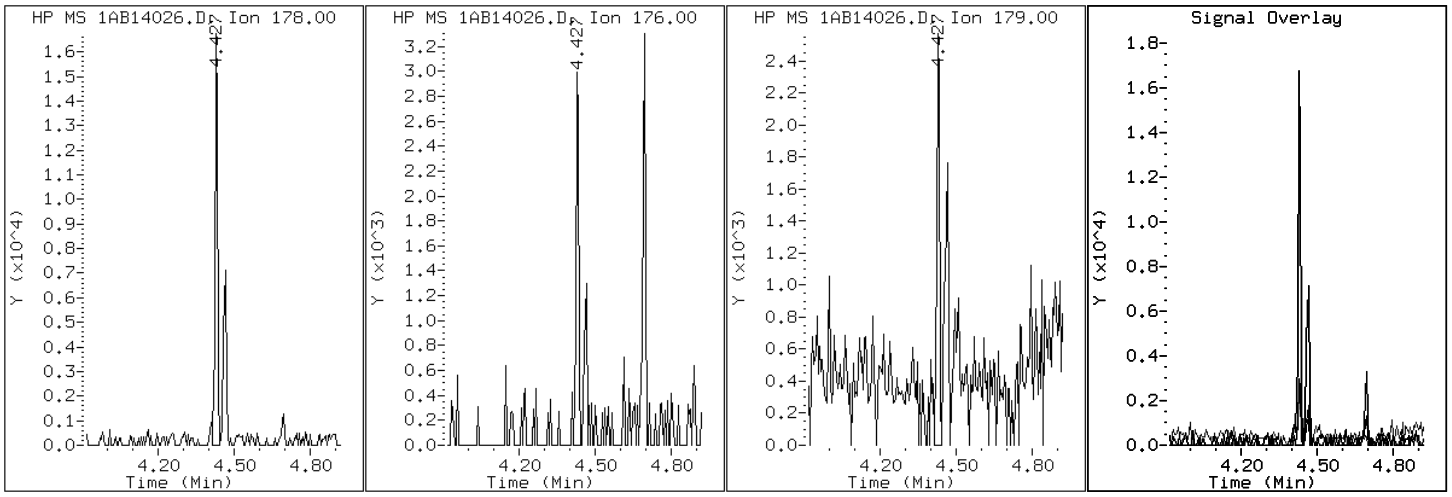
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

11 Phenanthrene



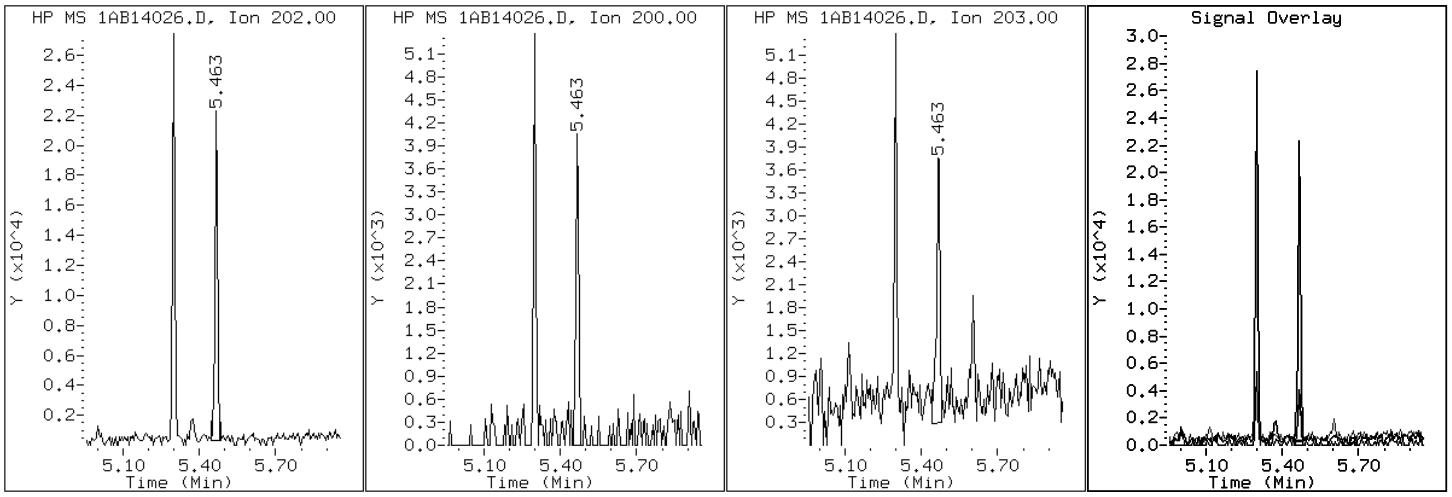
Data File: 1AB14026.D

Date: 14-FEB-2013 16:09

Client ID: CV0467A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-38-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14026.D
Inj. Date and Time: 14-FEB-2013 16:09
Instrument ID: BSMA5973.i
Client ID: CV0467A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

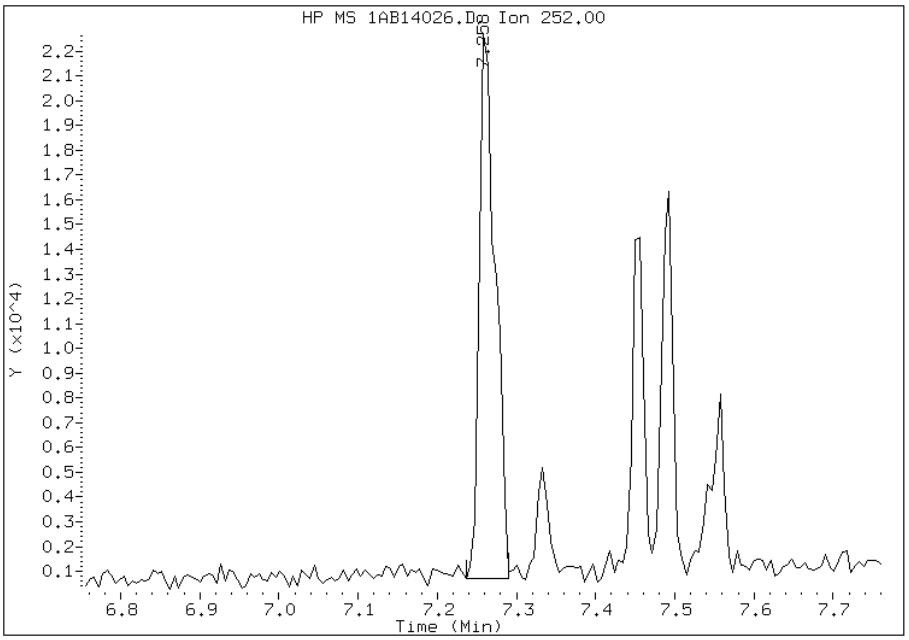
Processing Integration Results

RT: 7.26

Response: 30493

Amount: 2

Conc: 129



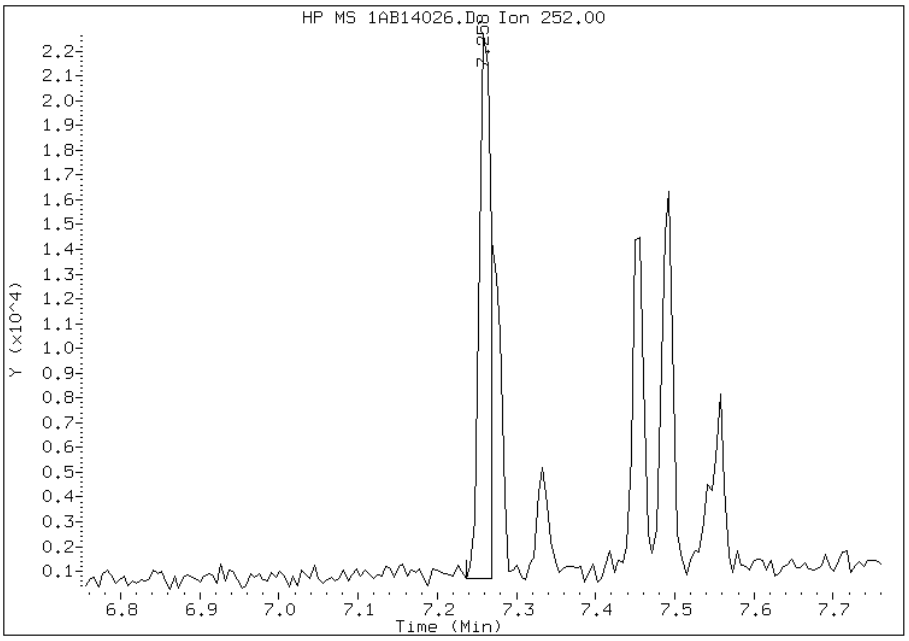
Manual Integration Results

RT: 7.26

Response: 22301

Amount: 1

Conc: 95



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14026.D
Inj. Date and Time: 14-FEB-2013 16:09
Instrument ID: BSMA5973.i
Client ID: CV0467A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

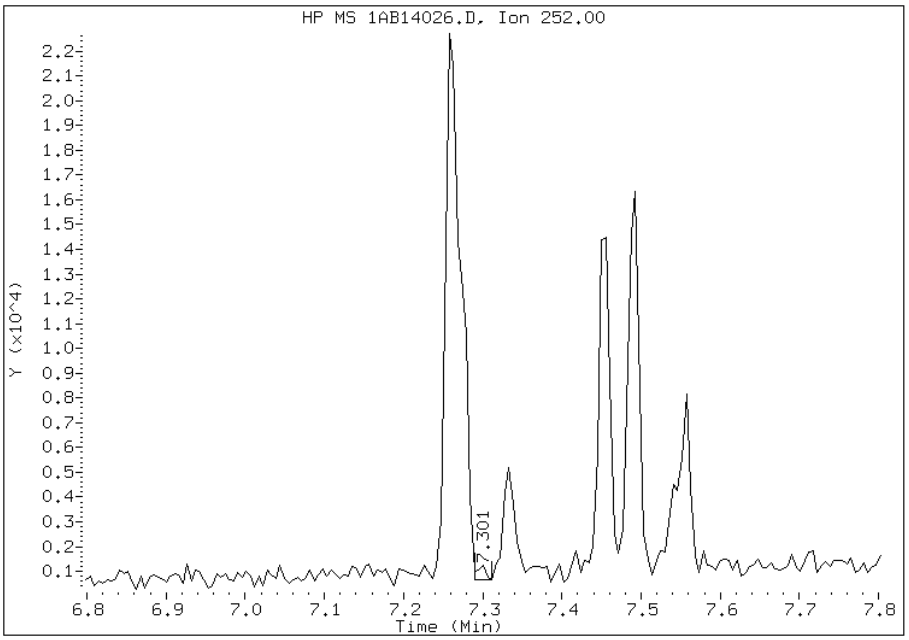
Processing Integration Results

RT: 7.30

Response: 469

Amount: 0

Conc: 2



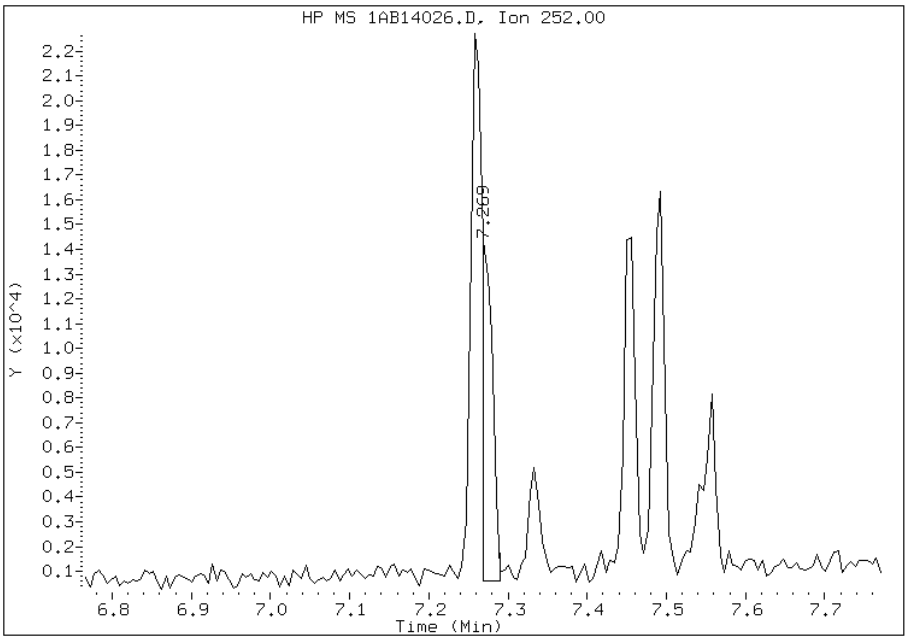
Manual Integration Results

RT: 7.27

Response: 12746

Amount: 1

Conc: 52



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14026.D
Inj. Date and Time: 14-FEB-2013 16:09
Instrument ID: BSMA5973.i
Client ID: CV0467A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

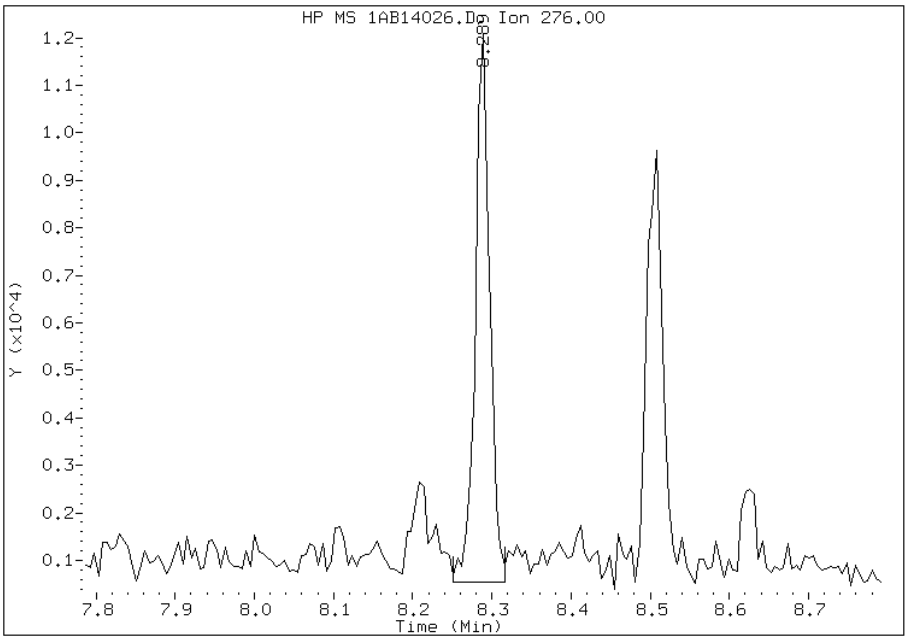
Processing Integration Results

RT: 8.29

Response: 14351

Amount: 1

Conc: 81



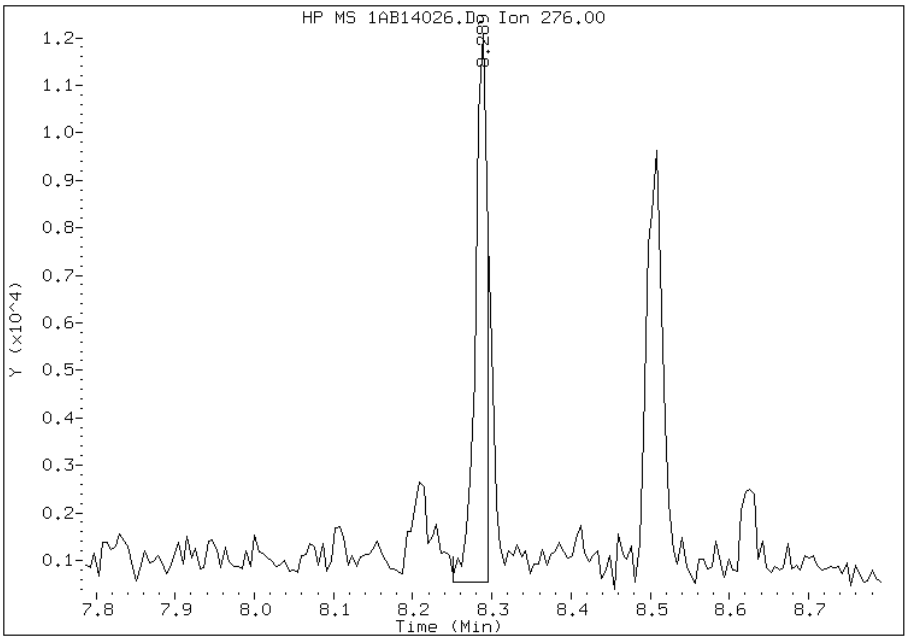
Manual Integration Results

RT: 8.29

Response: 11891

Amount: 1

Conc: 67



Manually Integrated By: cantins
Modification Date: 15-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.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0673A-CS | Lab Sample ID: 680-87218-39

Matrix: Solid | Lab File ID: 1AB14027.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:18

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.26(g) | Date Analyzed: 02/14/2013 16:24

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

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

% Moisture: 26.9 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	8.7	J	54	6.7
120-12-7	Anthracene	15		11	5.7
56-55-3	Benzo[a]anthracene	36		11	5.2
50-32-8	Benzo[a]pyrene	27		14	7.0
205-99-2	Benzo[b]fluoranthene	51		16	8.2
191-24-2	Benzo[g,h,i]perylene	38		27	5.9
207-08-9	Benzo[k]fluoranthene	15		11	4.8
218-01-9	Chrysene	61		12	6.1
53-70-3	Dibenz(a,h)anthracene	14	J	27	5.5
206-44-0	Fluoranthene	43		27	5.4
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	24	J	27	9.6
90-12-0	1-Methylnaphthalene	23	J	54	5.9
91-57-6	2-Methylnaphthalene	34	J	54	9.6
91-20-3	Naphthalene	34	J	54	5.9
85-01-8	Phenanthrene	48		11	5.2
129-00-0	Pyrene	42		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14027.D
Lab Smp Id: 680-87218-A-39-A Client Smp ID: CV0673A-CS
Inj Date : 14-FEB-2013 16:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-39-a
Misc Info : 680-87218-A-39-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 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	15.260	Weight Extracted
M	26.945	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.436	2.430	(1.000)	786572	40.0000	
* 6 Acenaphthene-d10	164	3.467	3.461	(1.000)	534263	40.0000	
* 10 Phenanthrene-d10	188	4.412	4.402	(1.000)	691521	40.0000	
$ 14 o-Terphenyl	230	4.690	4.685	(1.063)	79962	7.95787	713.8255
* 18 Chrysene-d12	240	6.442	6.426	(1.000)	505226	40.0000	
* 23 Perylene-d12	264	7.543	7.527	(1.000)	660043	40.0000	
2 Naphthalene	128	2.446	2.441	(1.004)	7210	0.37765	33.8750
3 2-Methylnaphthalene	141	2.852	2.847	(1.171)	3927	0.38395	34.4403
4 1-Methylnaphthalene	142	2.906	2.900	(1.193)	2928	0.25289	22.6847
5 Acenaphthylene	152	3.381	3.371	(0.975)	2281	0.09669	8.6732(Q)
11 Phenanthrene	178	4.423	4.418	(1.002)	10073	0.53349	47.8540
12 Anthracene	178	4.460	4.455	(1.011)	3302	0.17153	15.3859
13 Carbazole	167	4.621	4.610	(1.047)	1415	0.08575	7.6917
15 Fluoranthene	202	5.294	5.283	(1.200)	8973	0.47933	42.9963

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.459	5.454	(0.847)	8459	0.46360	41.5854
17 Benzo(a)anthracene	228	6.432	6.416	(0.998)	6125	0.40602	36.4204(Q)
19 Chrysene	228	6.453	6.448	(1.002)	9992	0.67954	60.9552
20 Benzo(b)fluoranthene	252	7.254	7.244	(0.962)	10385	0.56373	50.5668(M)
21 Benzo(k)fluoranthene	252	7.276	7.265	(0.965)	3289	0.17076	15.3174(QMH)
22 Benzo(a)pyrene	252	7.484	7.479	(0.992)	5322	0.30422	27.2889
24 Indeno(1,2,3-cd)pyrene	276	8.280	8.275	(1.098)	3682	0.26655	23.9096(M)
25 Dibenzo(a,h)anthracene	278	8.291	8.291	(1.099)	2123	0.15373	13.7900(M)
26 Benzo(g,h,i)perylene	276	8.494	8.494	(1.126)	6133	0.42856	38.4417(M)

QC Flag Legend

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

Data File: 1AB14027.D

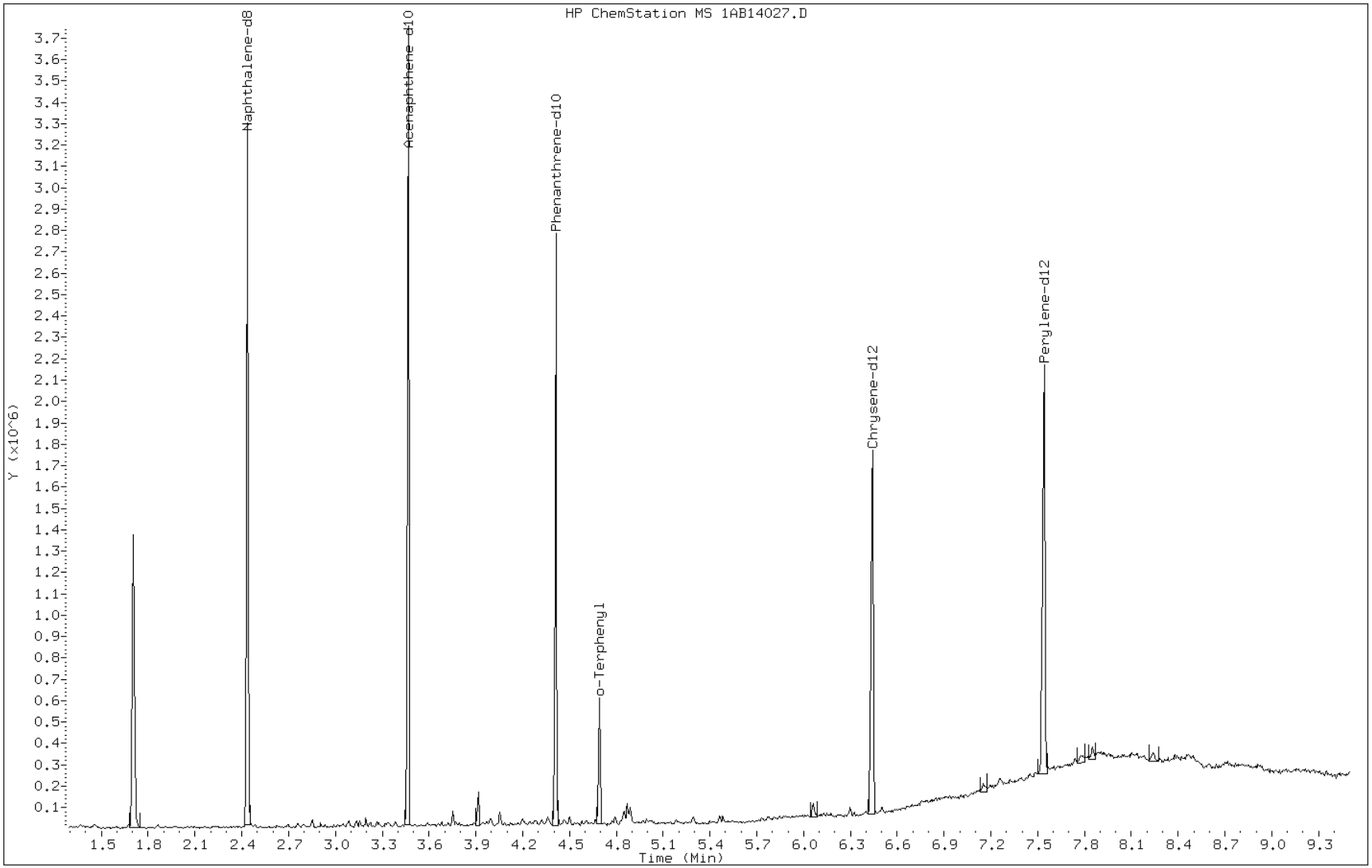
Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a

Operator: SCC



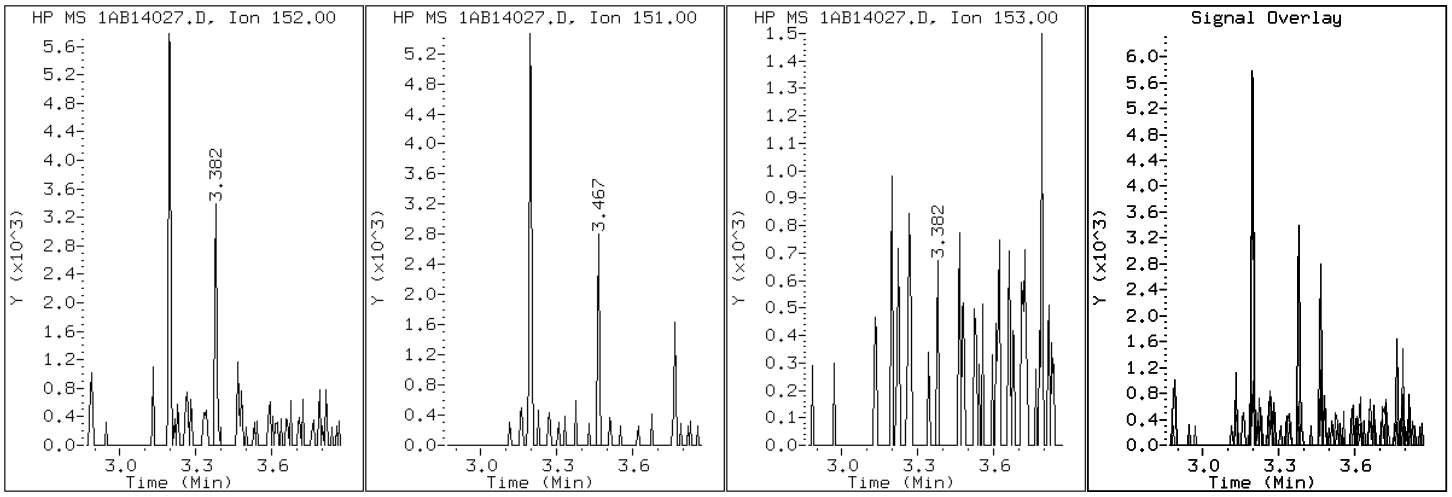
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

5 Acenaphthylene



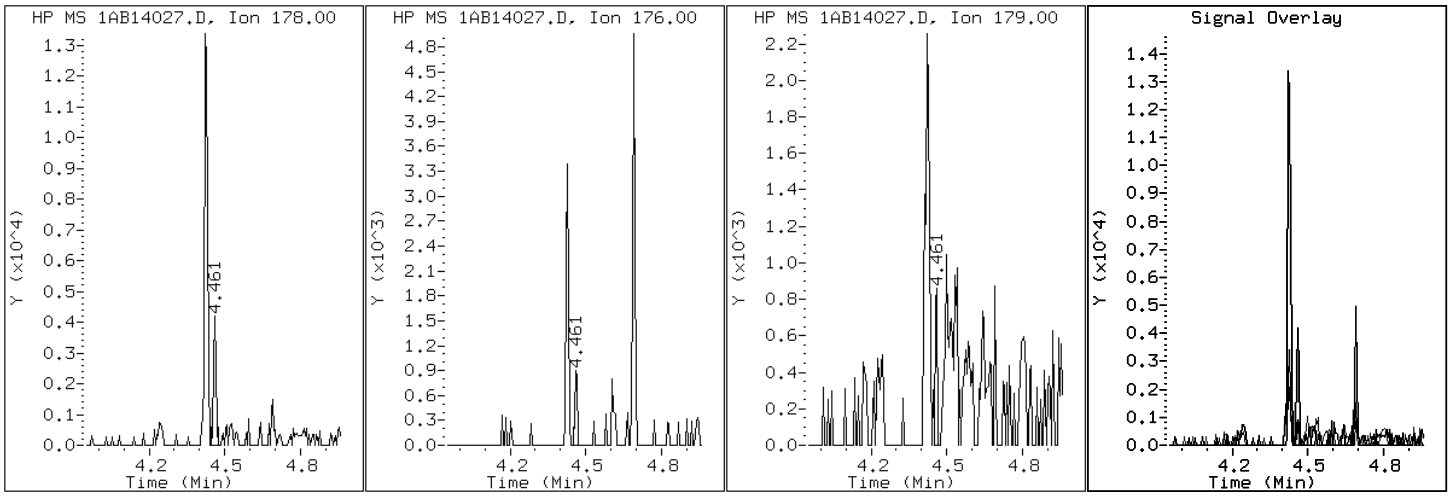
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

12 Anthracene



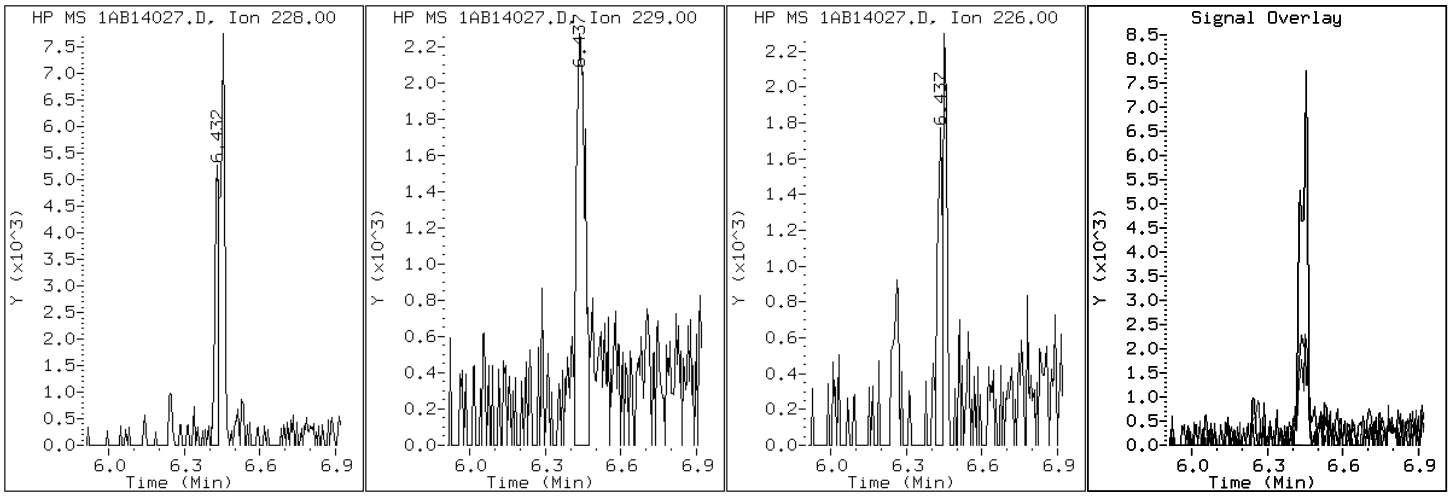
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

17 Benzo(a)anthracene



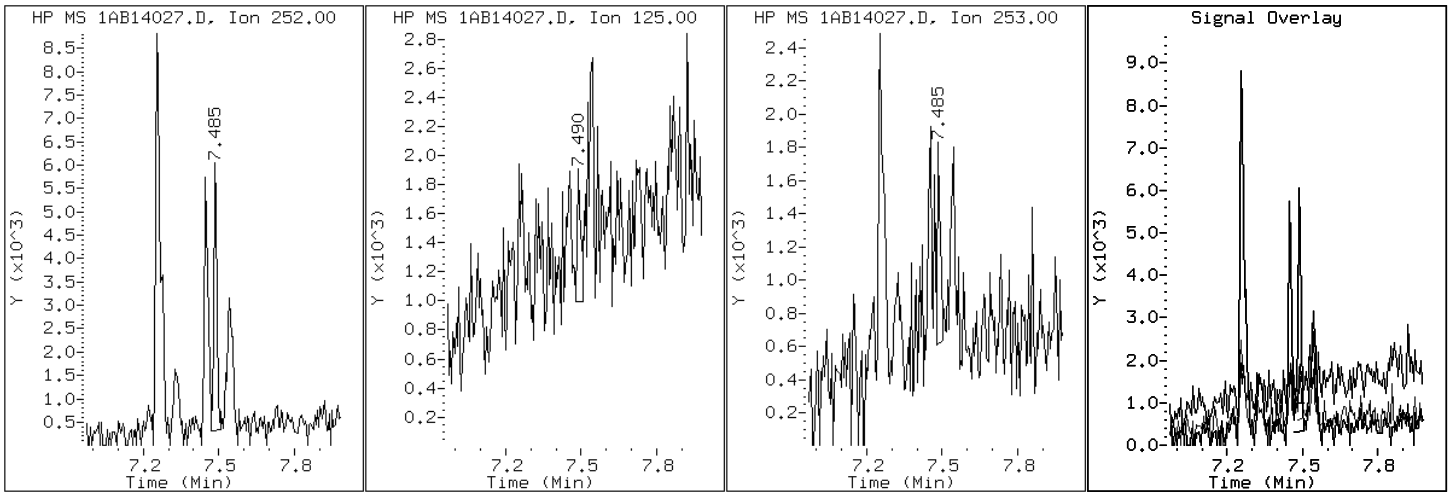
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

22 Benzo(a)pyrene



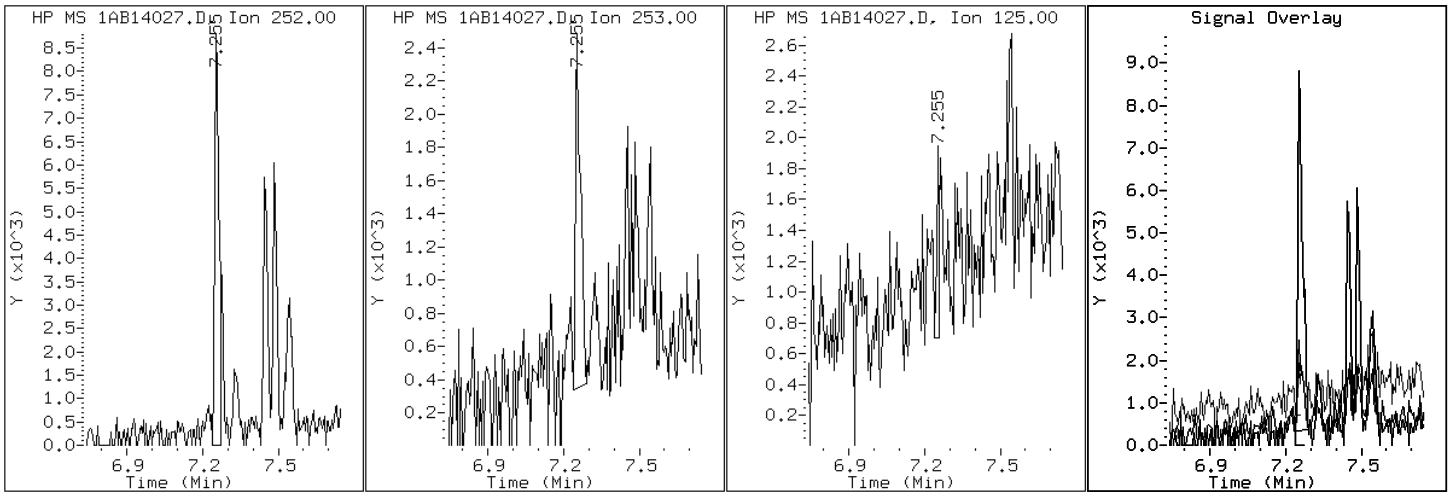
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

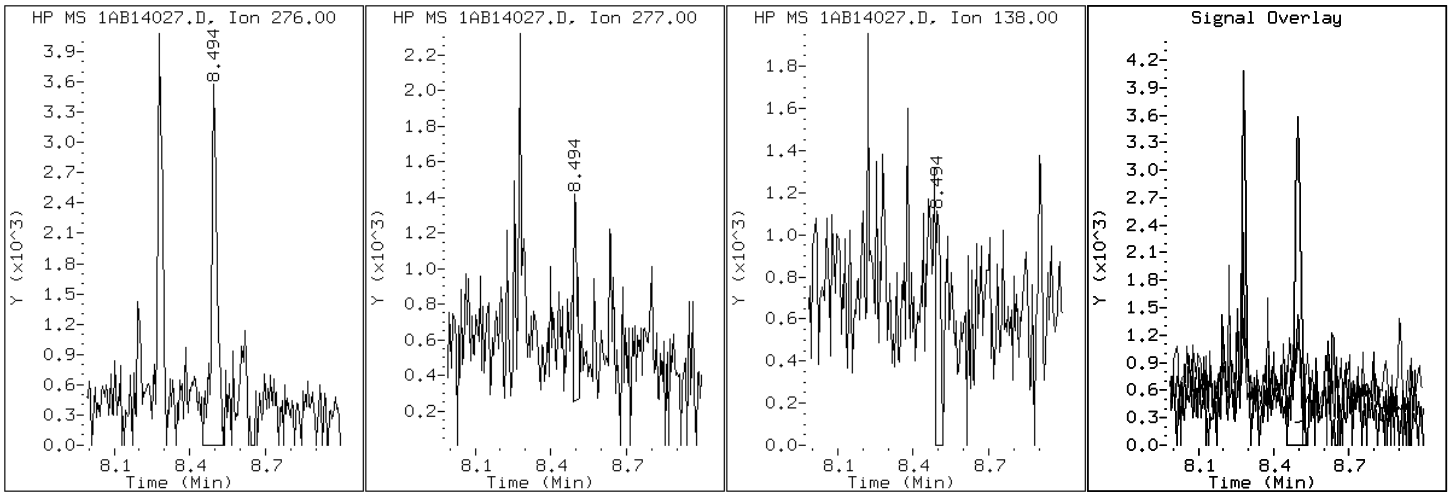
Client ID: CV0673A-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

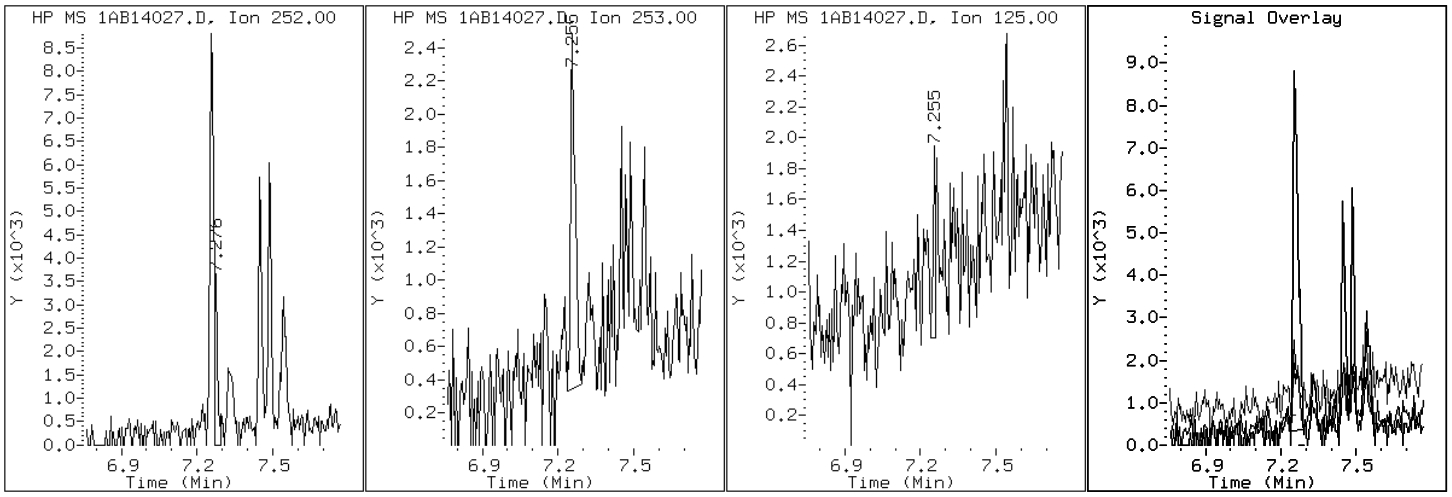
Client ID: CV0673A-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a

Operator: SCC

21 Benzo(k)fluoranthene



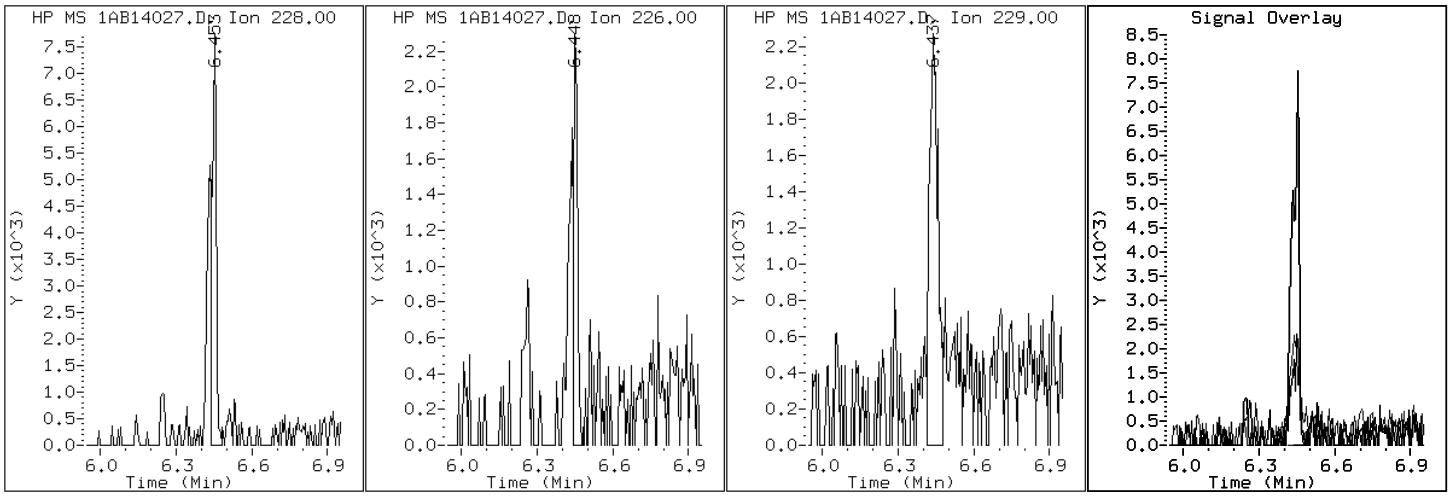
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

19 Chrysene



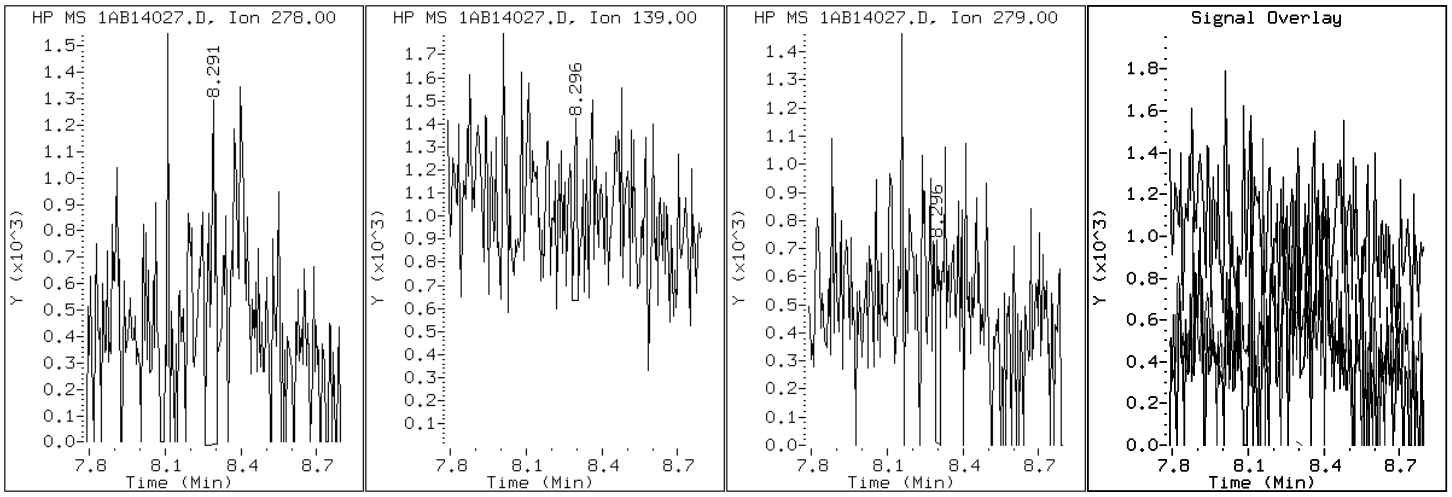
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

25 Dibenzo(a,h)anthracene



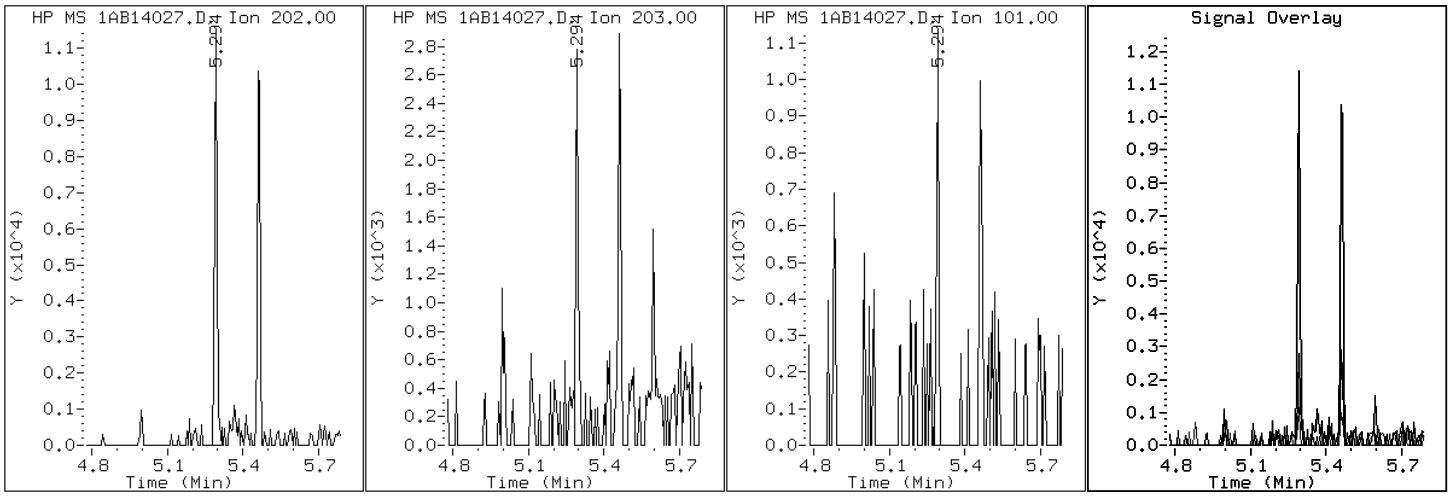
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

15 Fluoranthene



Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

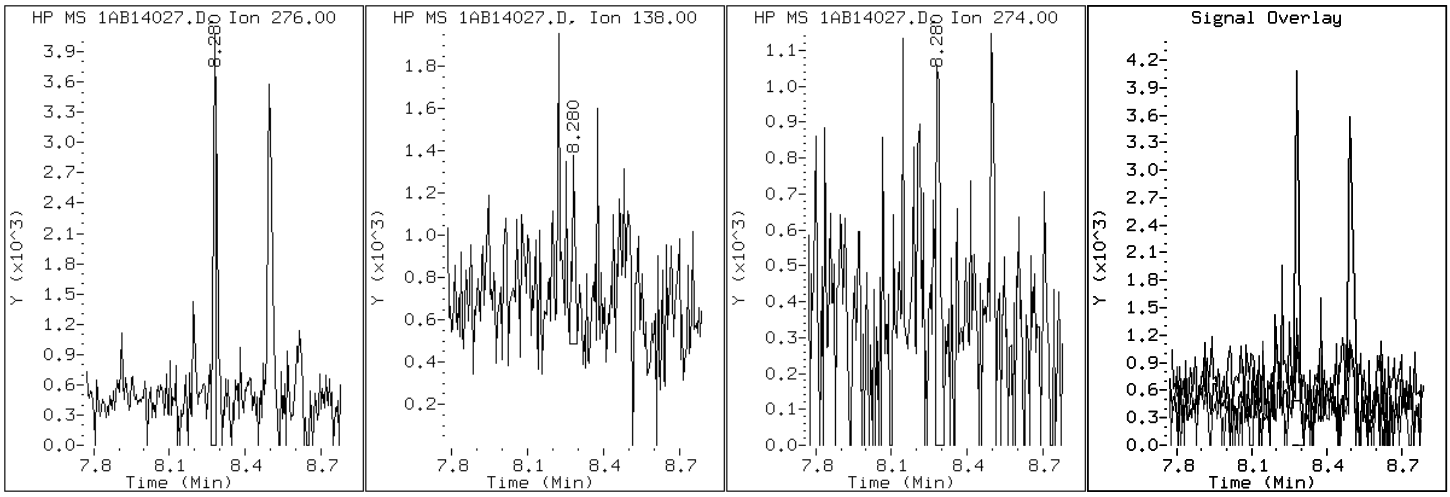
Client ID: CV0673A-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a

Operator: SCC

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



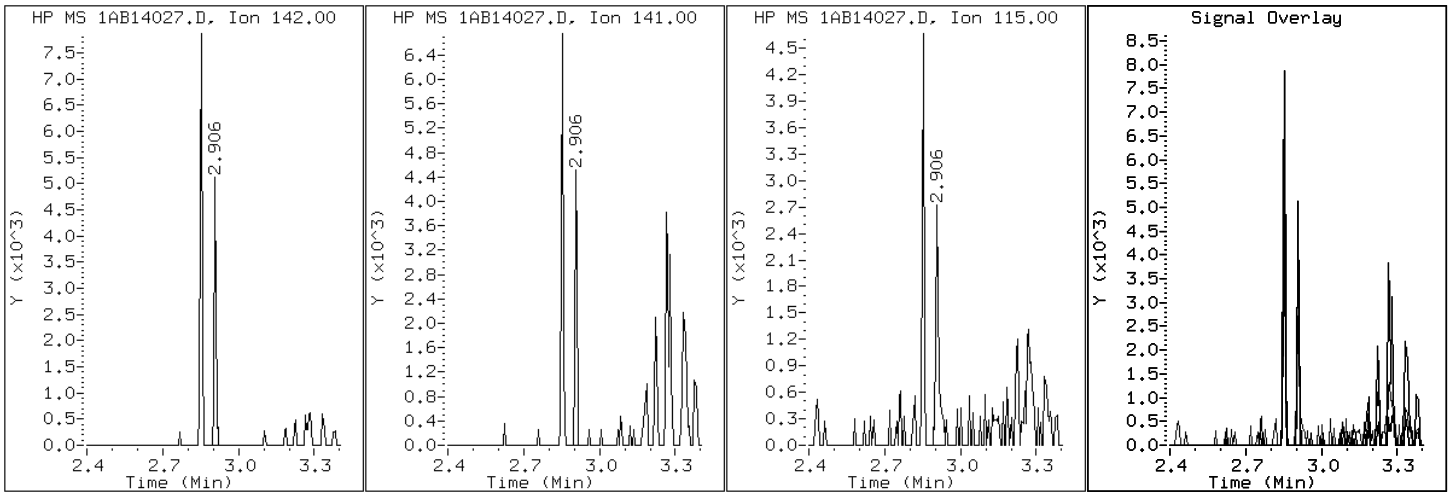
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

4 1-Methylnaphthalene



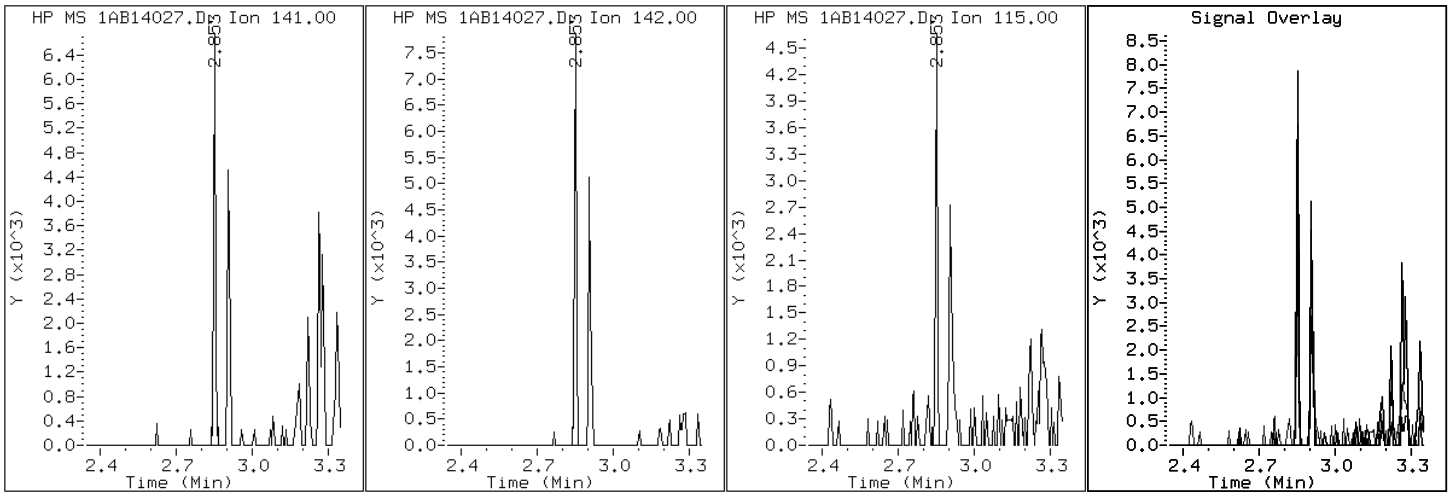
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

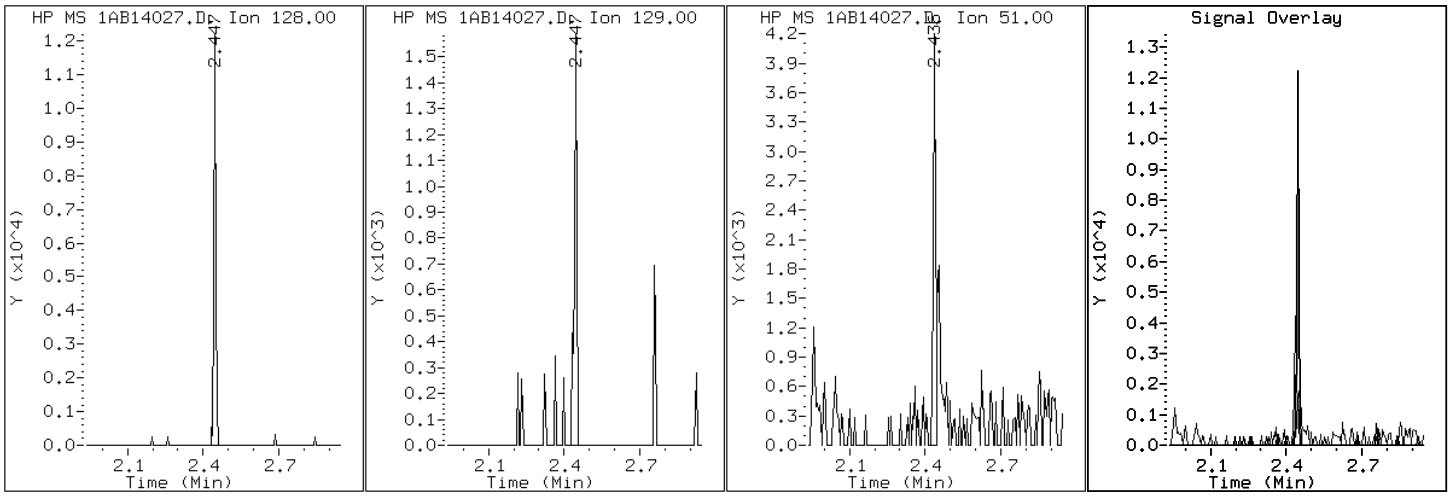
Client ID: CV0673A-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a

Operator: SCC

2 Naphthalene



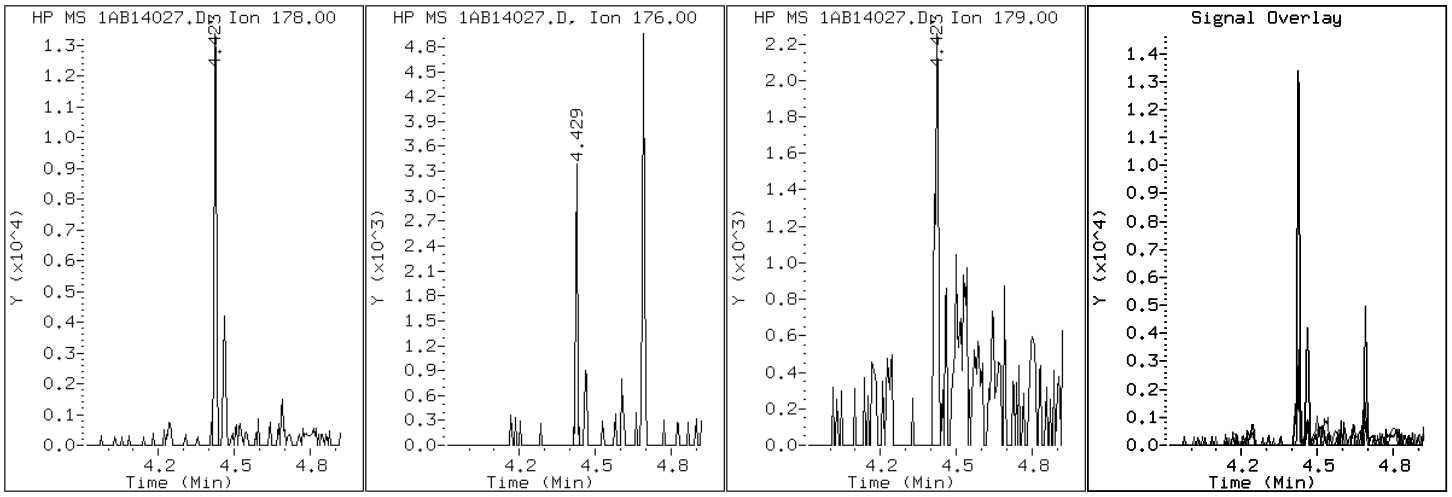
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

11 Phenanthrene



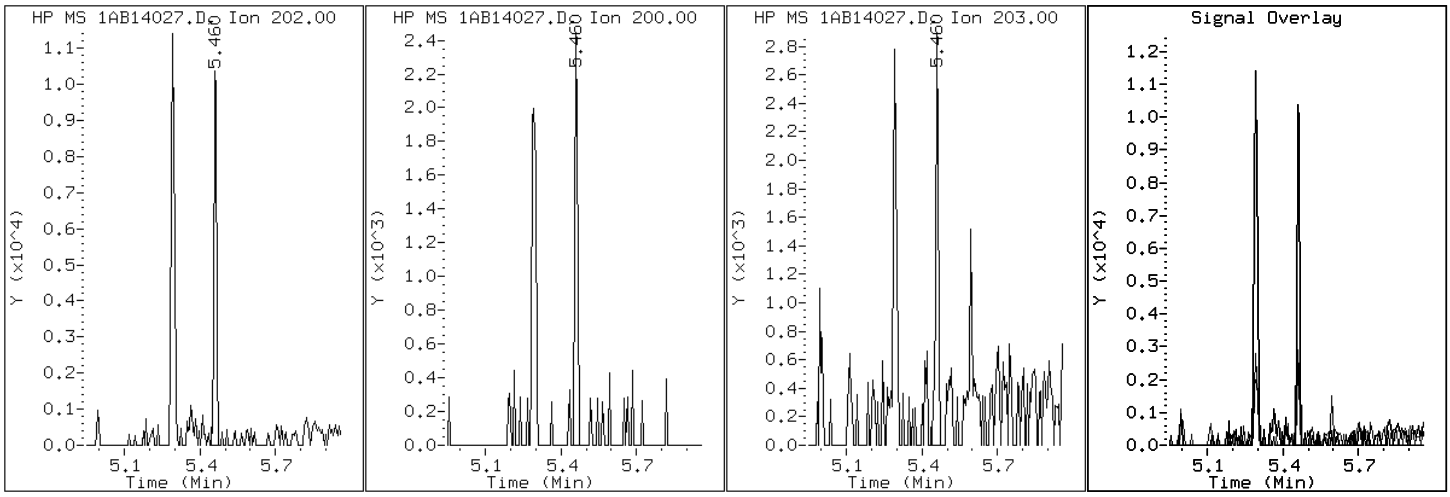
Data File: 1AB14027.D

Date: 14-FEB-2013 16:24

Client ID: CV0673A-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-39-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14027.D
Inj. Date and Time: 14-FEB-2013 16:24
Instrument ID: BSMA5973.i
Client ID: CV0673A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

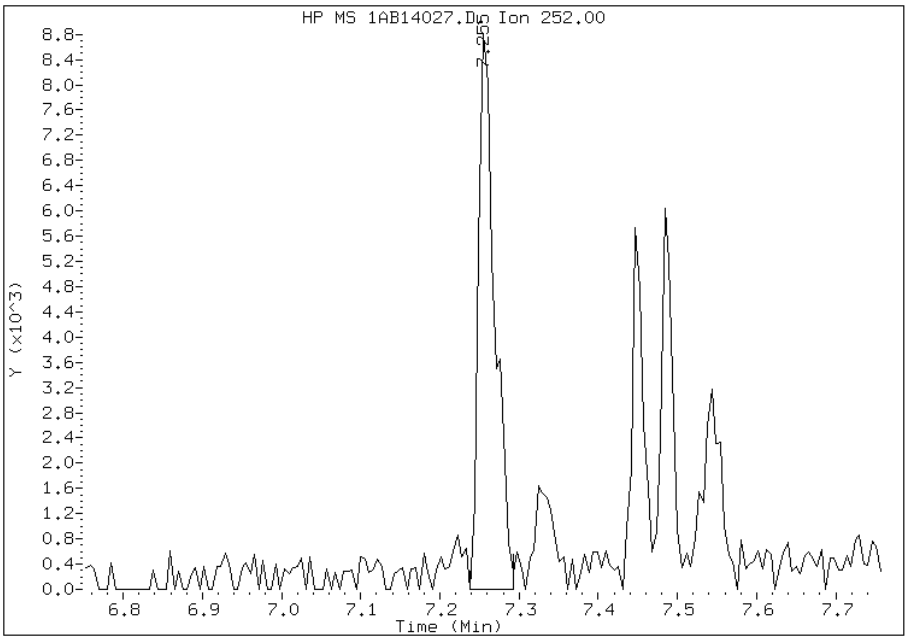
Processing Integration Results

RT: 7.25

Response: 12535

Amount: 1

Conc: 61



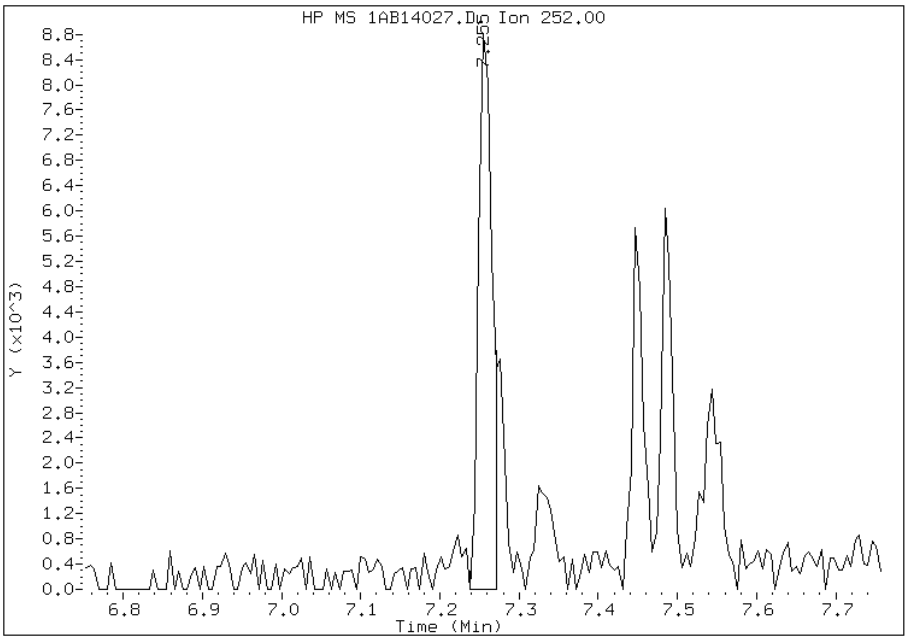
Manual Integration Results

RT: 7.25

Response: 10385

Amount: 1

Conc: 51



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB14027.D
Inj. Date and Time: 14-FEB-2013 16:24
Instrument ID: BSMA5973.i
Client ID: CV0673A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/15/2013

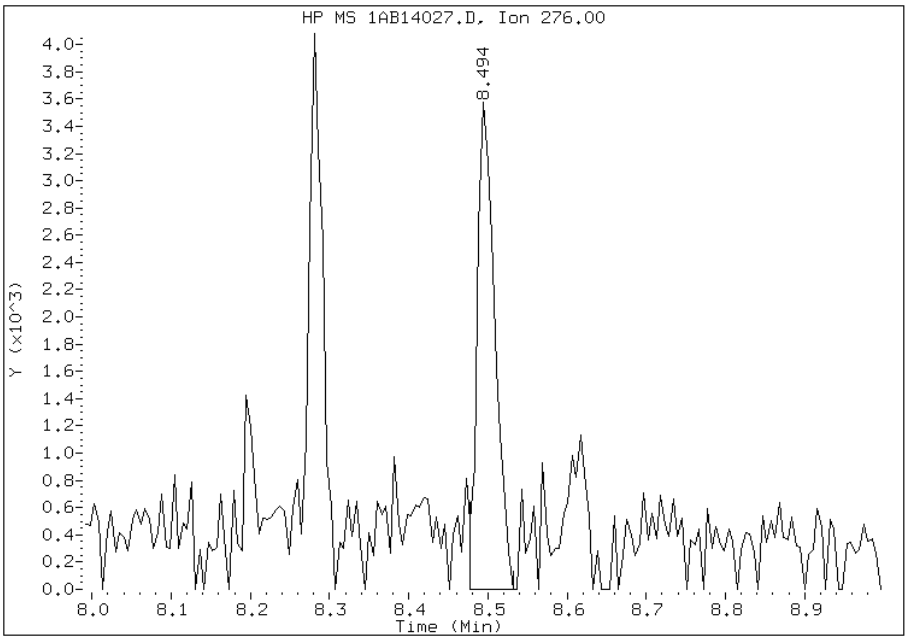
Processing Integration Results

RT: 8.49

Response: 5468

Amount: 0

Conc: 34



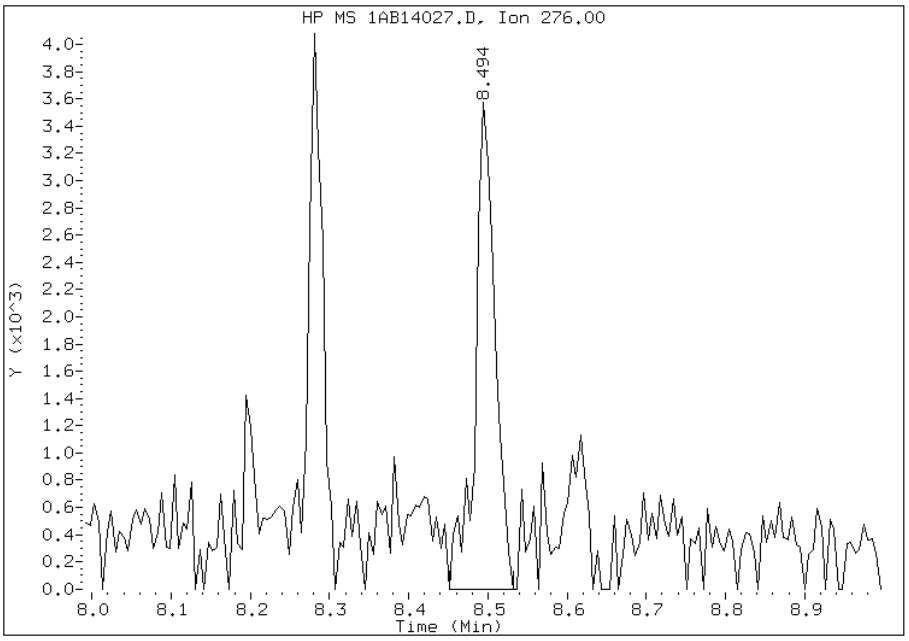
Manual Integration Results

RT: 8.49

Response: 6133

Amount: 0

Conc: 38



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14027.D
Inj. Date and Time: 14-FEB-2013 16:24
Instrument ID: BSMA5973.i
Client ID: CV0673A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

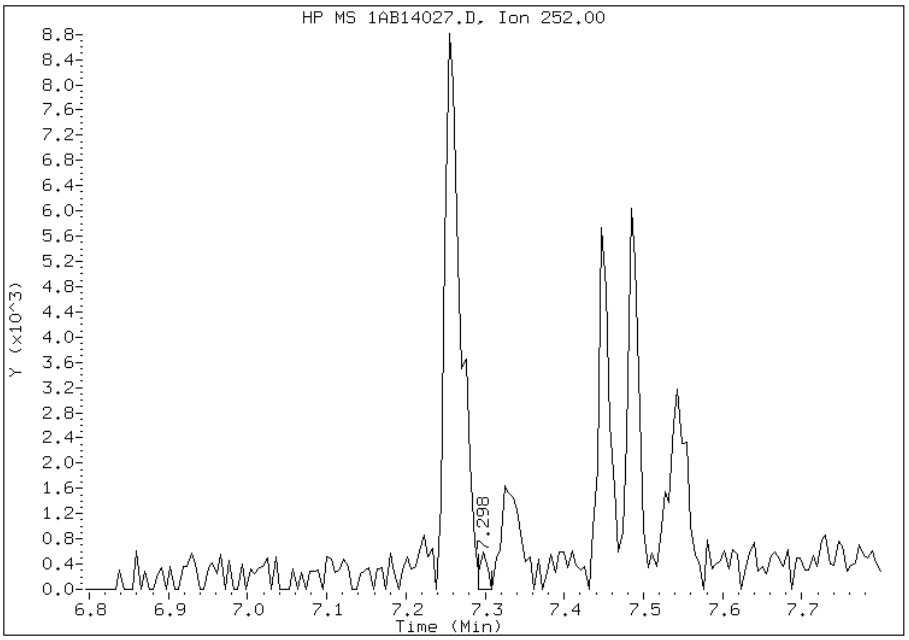
Processing Integration Results

RT: 7.30

Response: 378

Amount: 0

Conc: 2



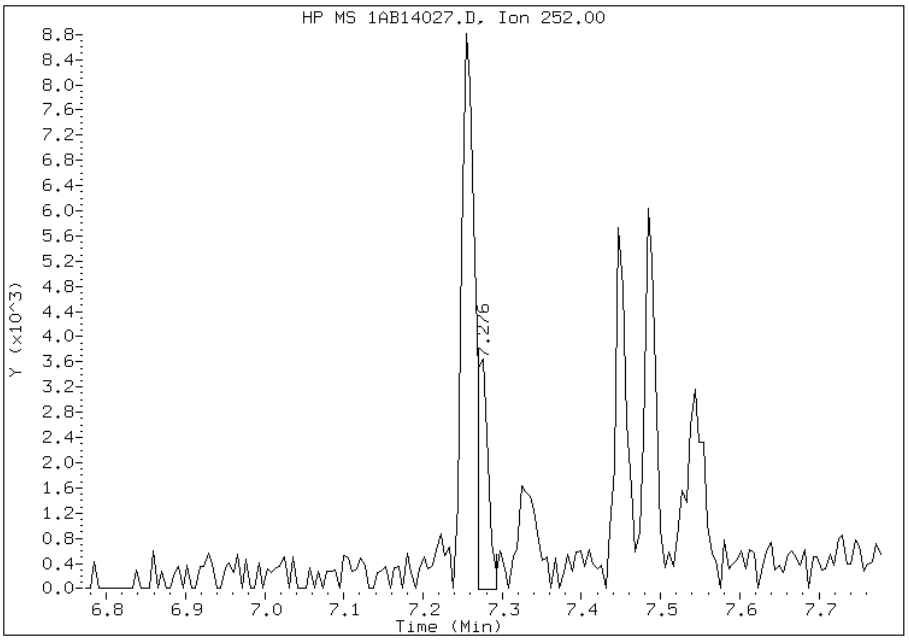
Manual Integration Results

RT: 7.28

Response: 3289

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14027.D
Inj. Date and Time: 14-FEB-2013 16:24
Instrument ID: BSMA5973.i
Client ID: CV0673A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/15/2013

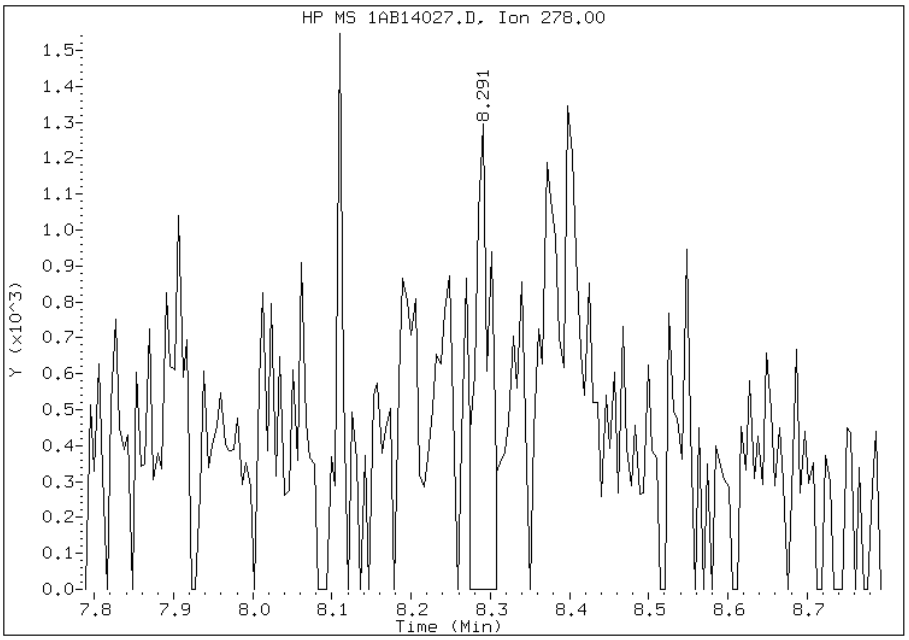
Processing Integration Results

RT: 8.29

Response: 1683

Amount: 0

Conc: 11



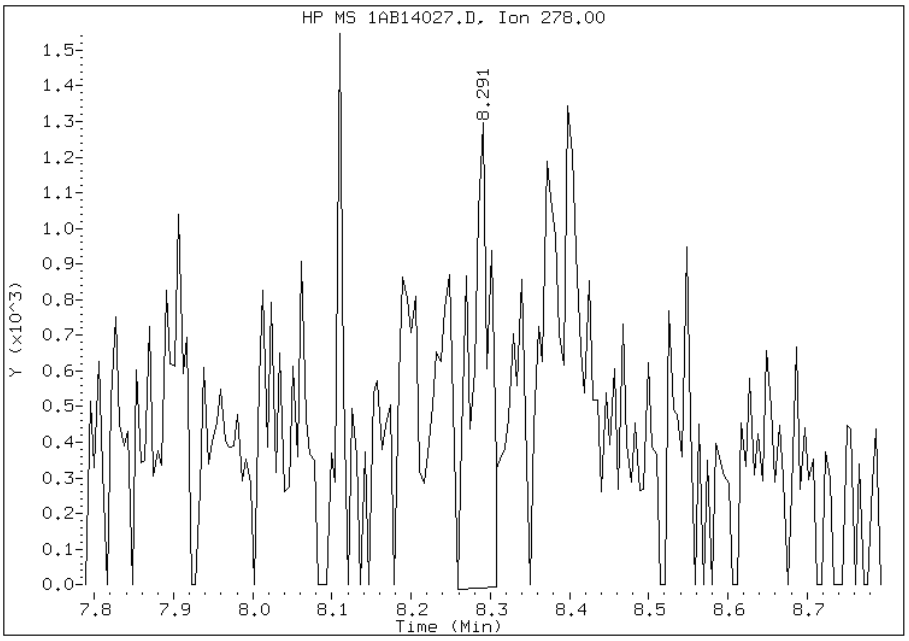
Manual Integration Results

RT: 8.29

Response: 2123

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14027.D
Inj. Date and Time: 14-FEB-2013 16:24
Instrument ID: BSMA5973.i
Client ID: CV0673A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

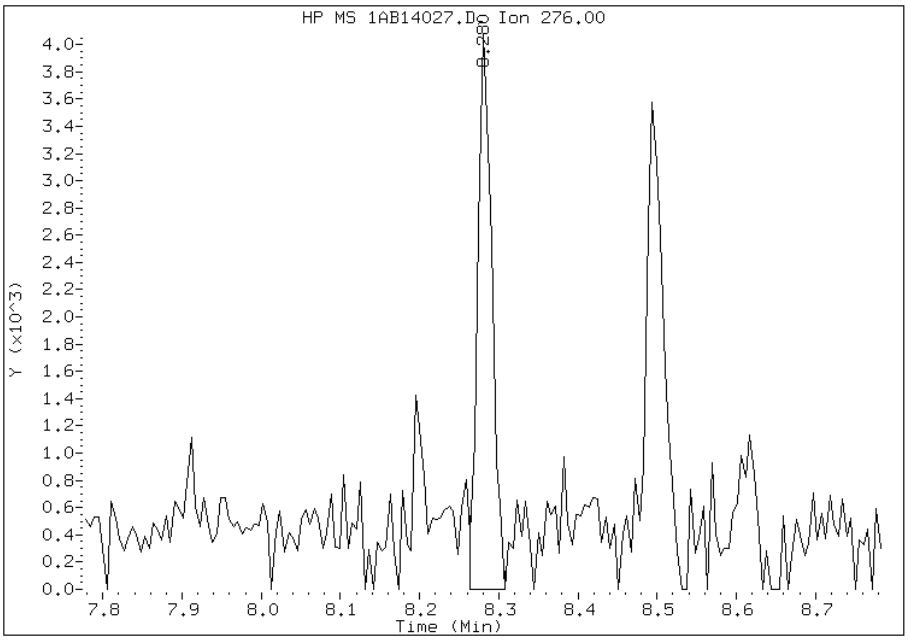
Processing Integration Results

RT: 8.28

Response: 4997

Amount: 0

Conc: 32



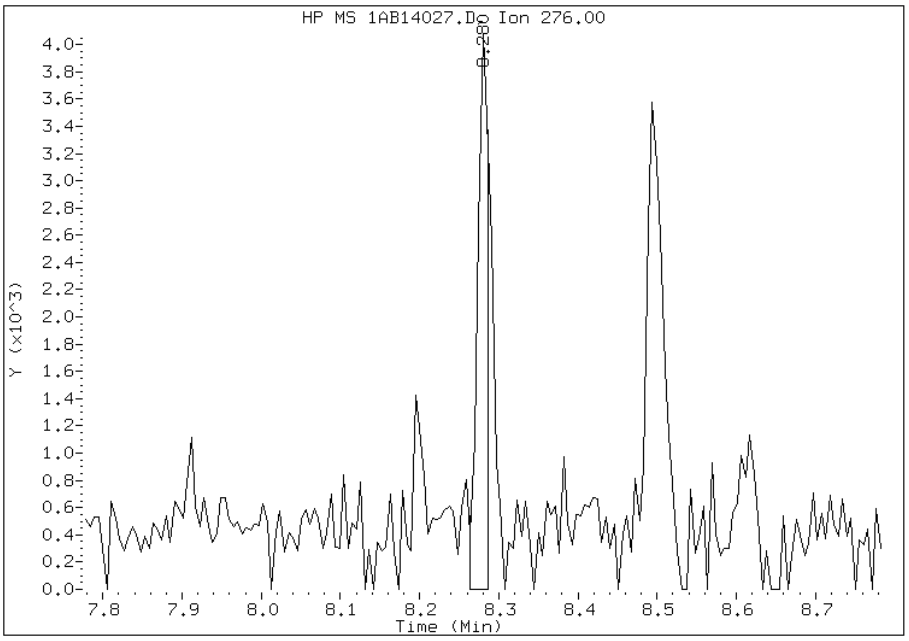
Manual Integration Results

RT: 8.28

Response: 3682

Amount: 0

Conc: 24



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0673B-CS | Lab Sample ID: 680-87218-40

Matrix: Solid | Lab File ID: 1AB14028.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:23

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.24(g) | Date Analyzed: 02/14/2013 16:39

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

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

% Moisture: 16.5 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	47	U	47	5.9
120-12-7	Anthracene	7.3	J	9.9	5.0
56-55-3	Benzo[a]anthracene	30		9.4	4.6
50-32-8	Benzo[a]pyrene	15		12	6.1
205-99-2	Benzo[b]fluoranthene	23		14	7.2
191-24-2	Benzo[g,h,i]perylene	18	J	24	5.2
207-08-9	Benzo[k]fluoranthene	8.9	J	9.4	4.2
218-01-9	Chrysene	29		11	5.3
53-70-3	Dibenz(a,h)anthracene	14	J	24	4.8
206-44-0	Fluoranthene	22	J	24	4.7
86-73-7	Fluorene	24	U	24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	15	J	24	8.4
90-12-0	1-Methylnaphthalene	19	J	47	5.2
91-57-6	2-Methylnaphthalene	25	J	47	8.4
91-20-3	Naphthalene	23	J	47	5.2
85-01-8	Phenanthrene	31		9.4	4.6
129-00-0	Pyrene	23	J	24	4.4

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\1A021413.b\1AB14028.D
Lab Smp Id: 680-87218-A-40-A Client Smp ID: CV0673B-CS
Inj Date : 14-FEB-2013 16:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-40-a
Misc Info : 680-87218-A-40-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 28
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	16.535	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.436	2.430	(1.000)	877868	40.0000	
* 6 Acenaphthene-d10	164	3.462	3.461	(1.000)	554217	40.0000	
* 10 Phenanthrene-d10	188	4.413	4.402	(1.000)	753638	40.0000	
$ 14 o-Terphenyl	230	4.691	4.685	(1.063)	84102	7.68001	603.7746
* 18 Chrysene-d12	240	6.437	6.426	(1.000)	494722	40.0000	
* 23 Perylene-d12	264	7.538	7.527	(1.000)	642860	40.0000	
2 Naphthalene	128	2.447	2.441	(1.004)	6206	0.29125	22.8972(Q)
3 2-Methylnaphthalene	141	2.848	2.847	(1.169)	3566	0.31239	24.5592
4 1-Methylnaphthalene	142	2.906	2.900	(1.193)	3047	0.23580	18.5379(Q)
11 Phenanthrene	178	4.423	4.418	(1.002)	8059	0.39164	30.7893
12 Anthracene	178	4.456	4.455	(1.010)	1937	0.09233	7.2583
15 Fluoranthene	202	5.289	5.283	(1.199)	5790	0.28380	22.3116
16 Pyrene	202	5.460	5.454	(0.848)	5162	0.28891	22.7134
17 Benzo(a)anthracene	228	6.432	6.416	(0.999)	5638	0.38168	30.0059

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.453	6.448	(1.002)	5398	0.37490	29.4736
20 Benzo(b)fluoranthene	252	7.255	7.244	(0.962)	5152	0.28714	22.5740
21 Benzo(k)fluoranthene	252	7.271	7.265	(0.965)	2128	0.11344	8.9179
22 Benzo(a)pyrene	252	7.485	7.479	(0.993)	3286	0.19286	15.1618
24 Indeno(1,2,3-cd)pyrene	276	8.280	8.275	(1.099)	2520	0.18731	14.7252(M)
25 Dibenzo(a,h)anthracene	278	8.286	8.291	(1.099)	2393	0.17792	13.9872(M)
26 Benzo(g,h,i)perylene	276	8.500	8.494	(1.128)	3116	0.22356	17.5752

QC Flag Legend

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

Data File: 1AB14028.D

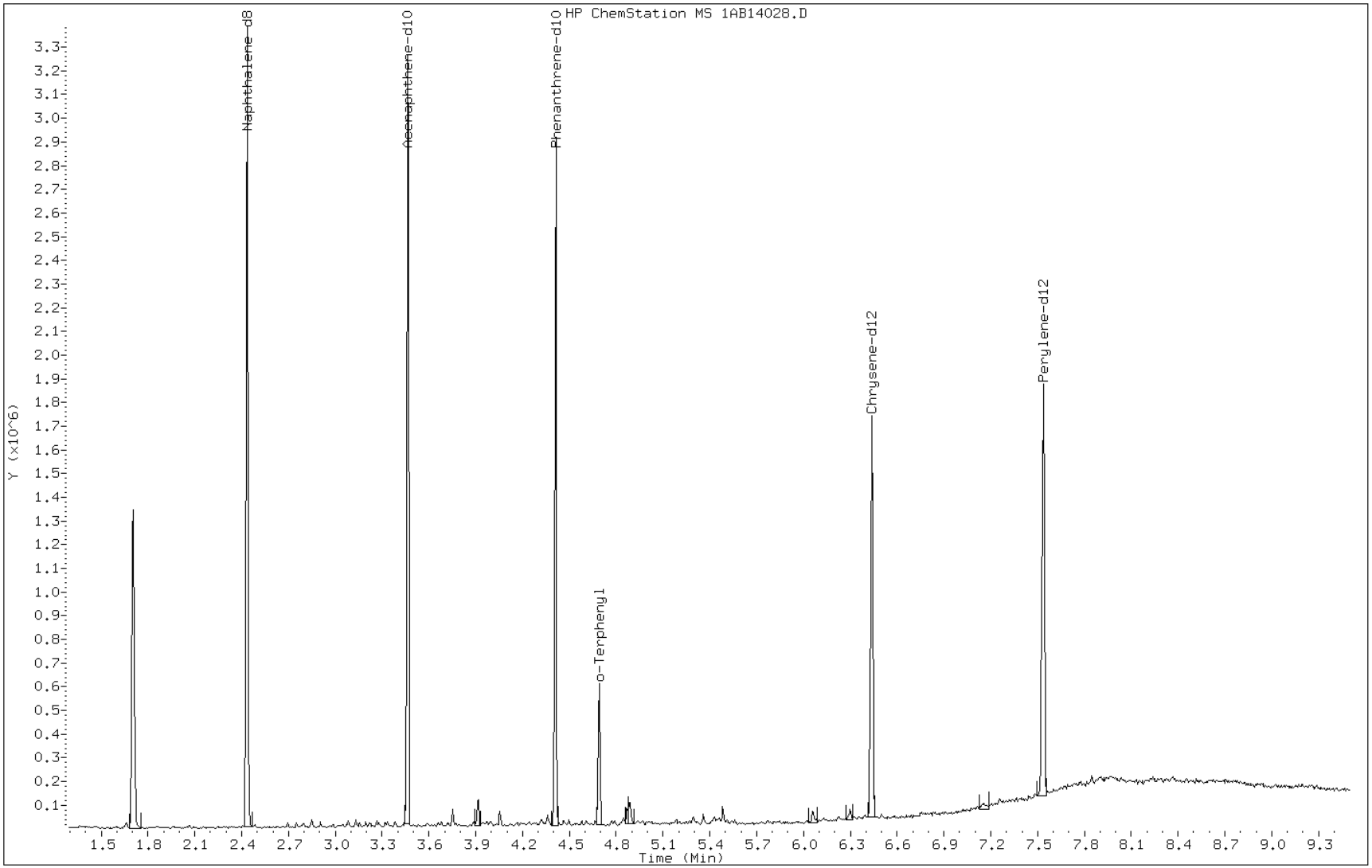
Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a

Operator: SCC



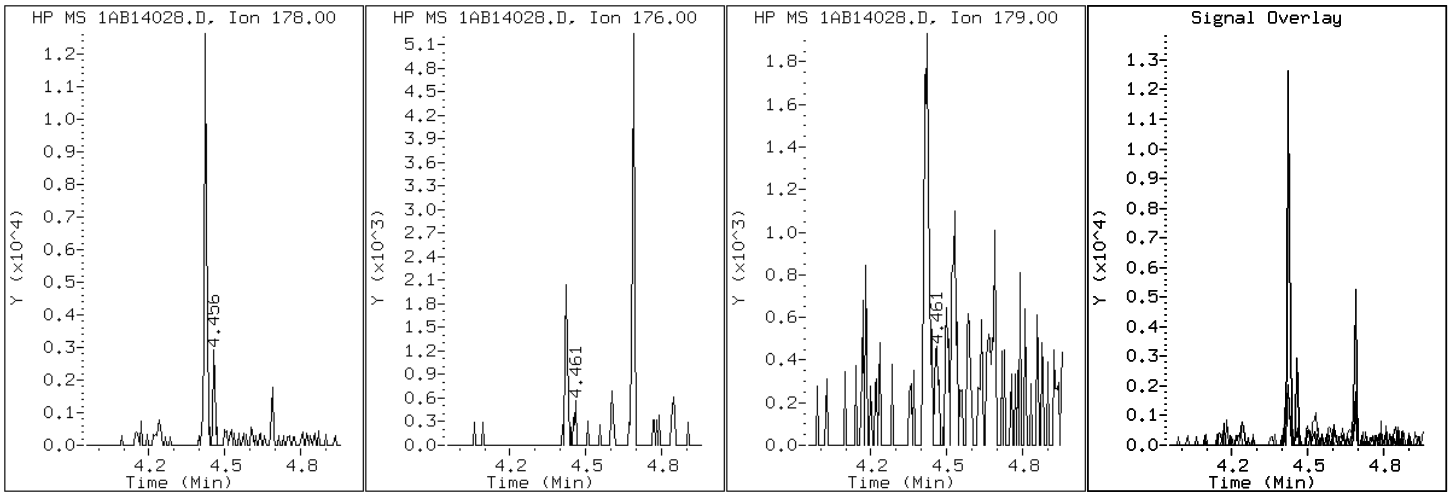
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

12 Anthracene



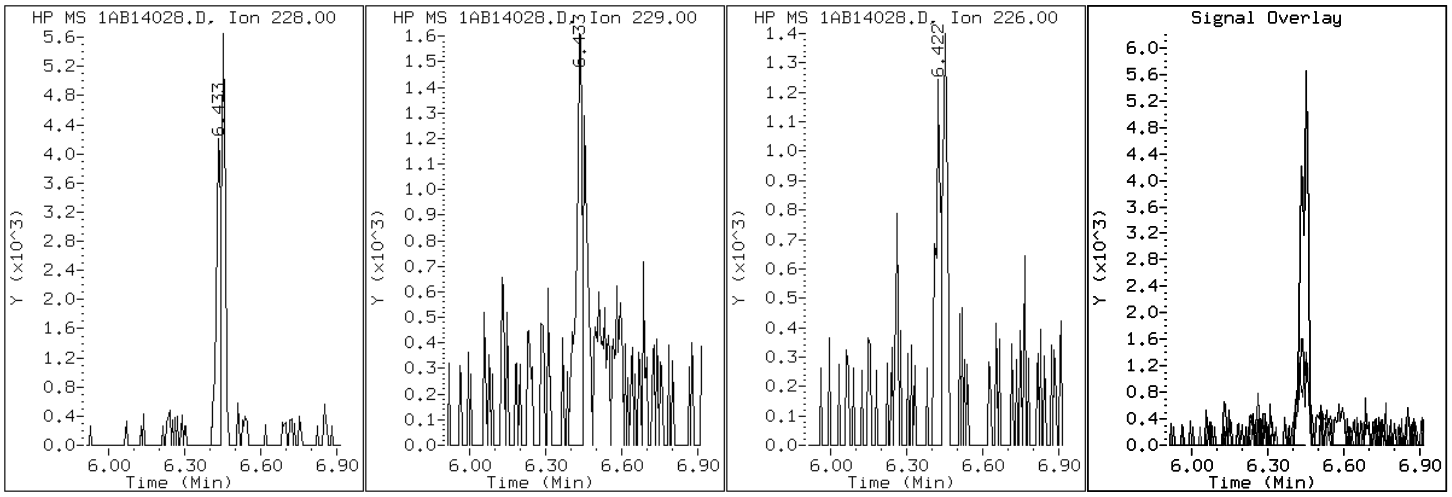
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

17 Benzo(a)anthracene



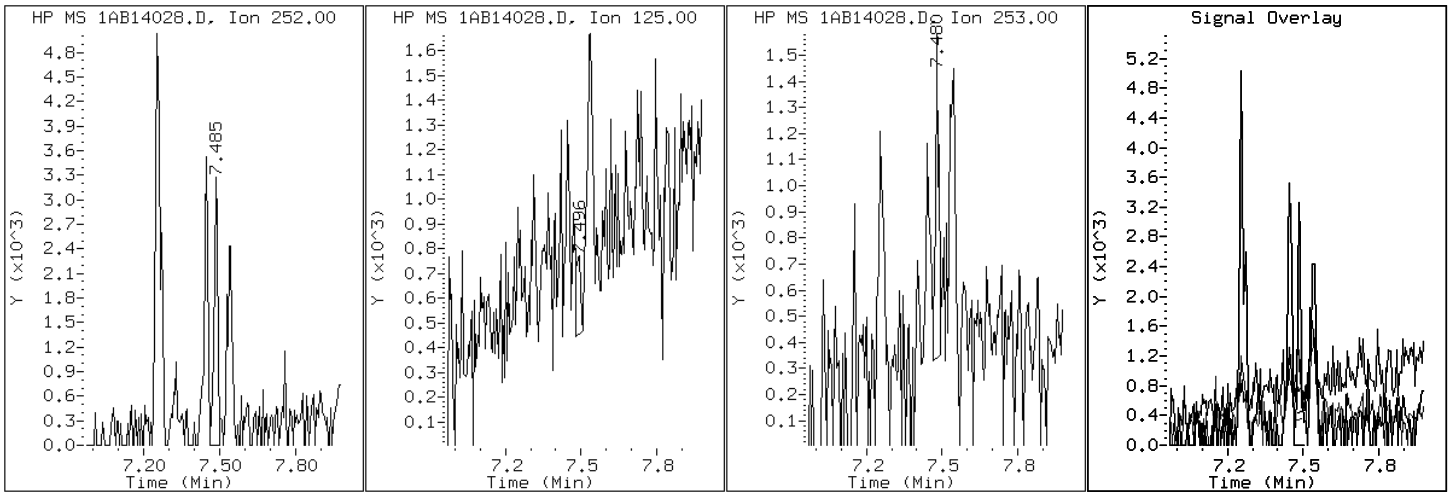
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

22 Benzo(a)pyrene



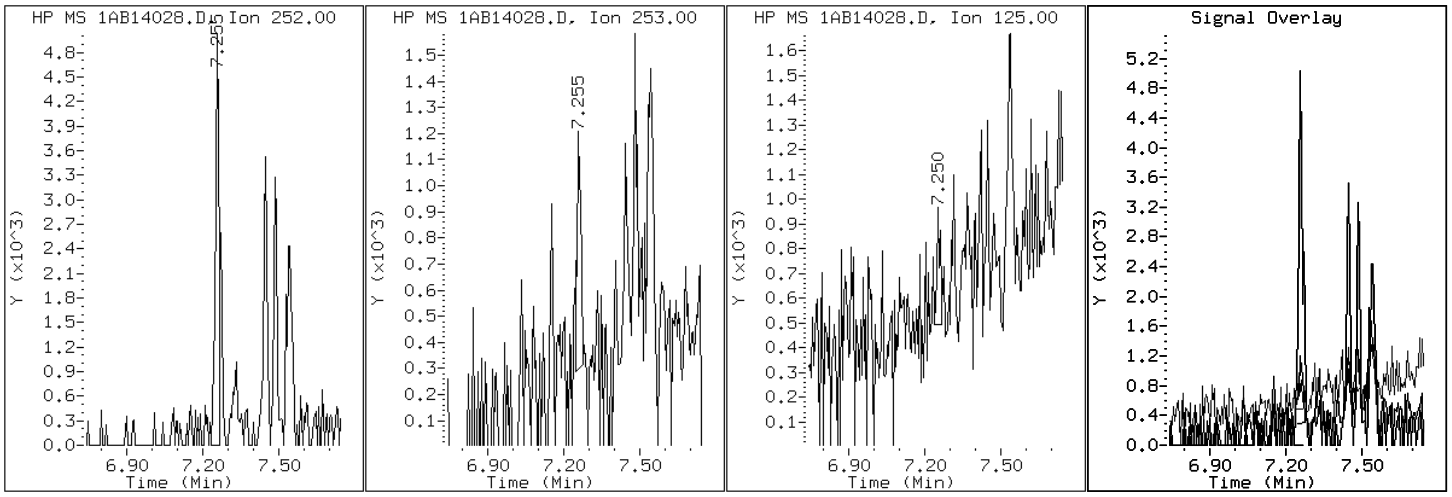
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

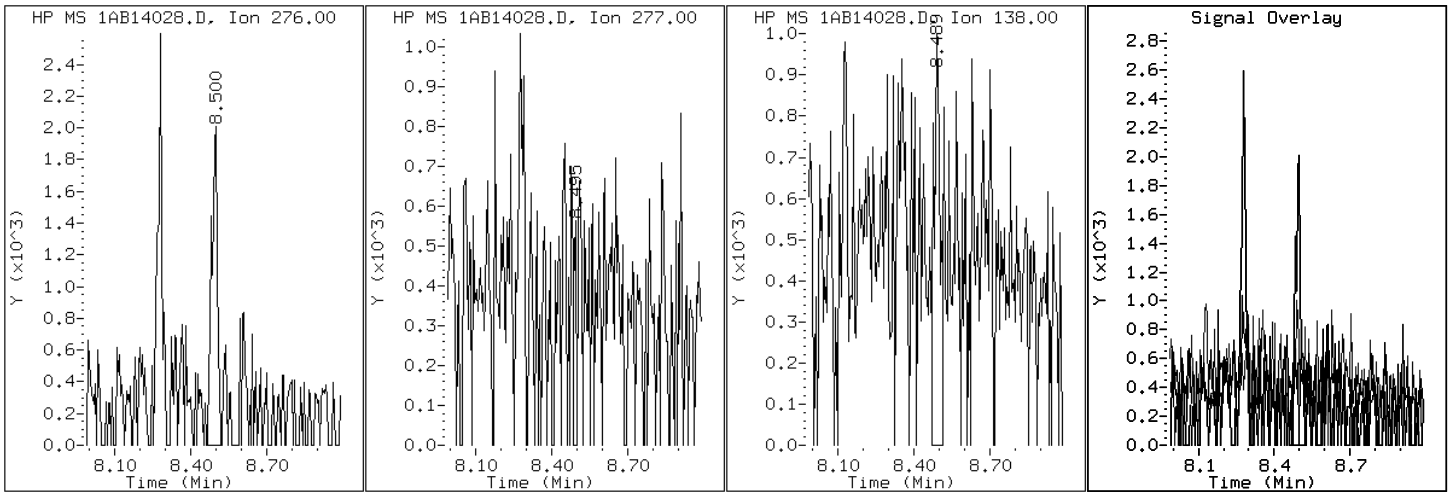
Client ID: CV0673B-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a

Operator: SCC

26 Benzo(g,h,i)perylene



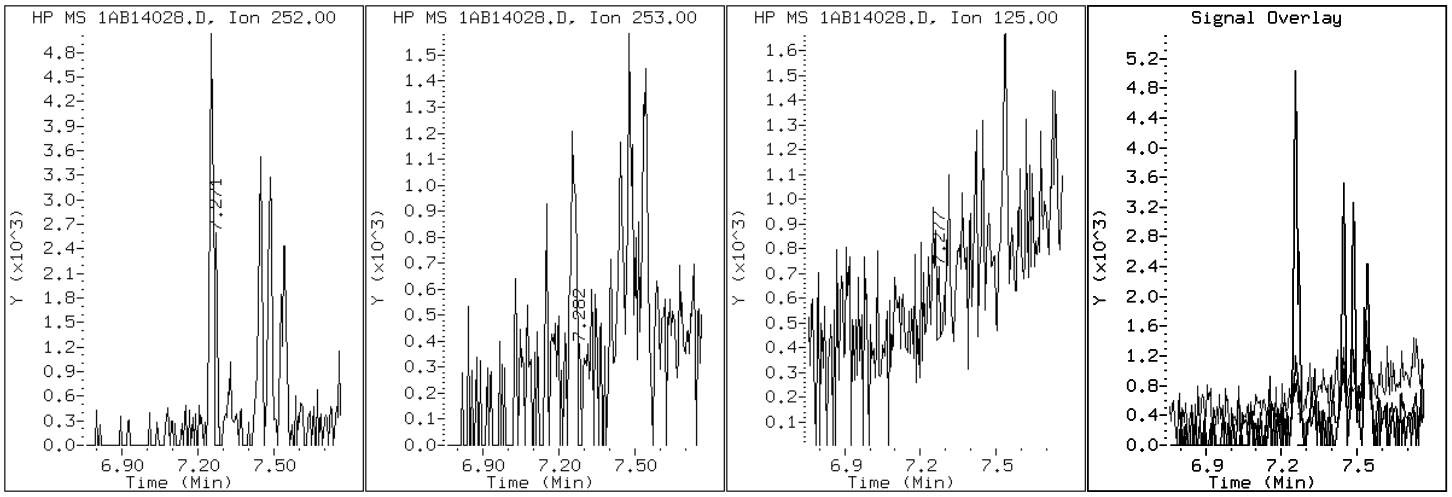
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

21 Benzo(k)fluoranthene



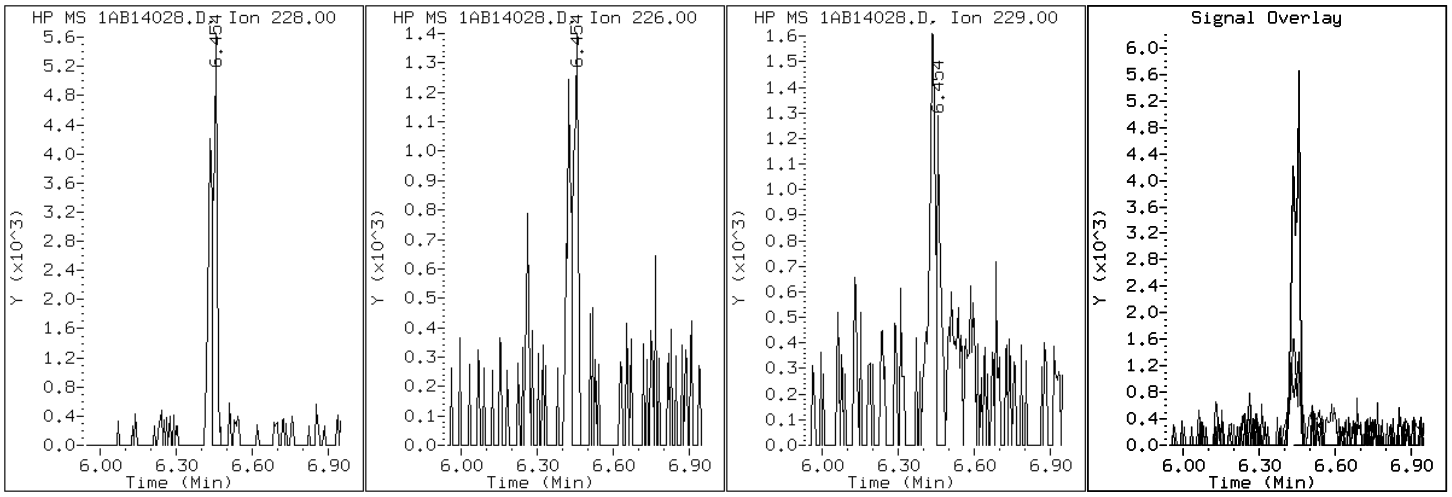
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

19 Chrysene



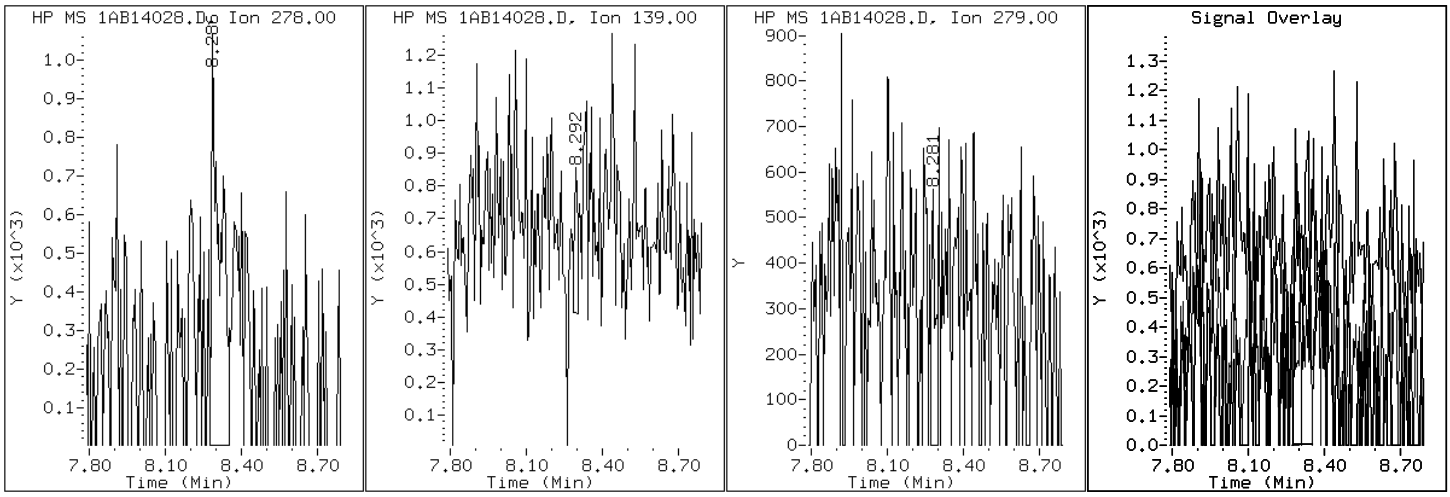
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

25 Dibenzo(a,h)anthracene



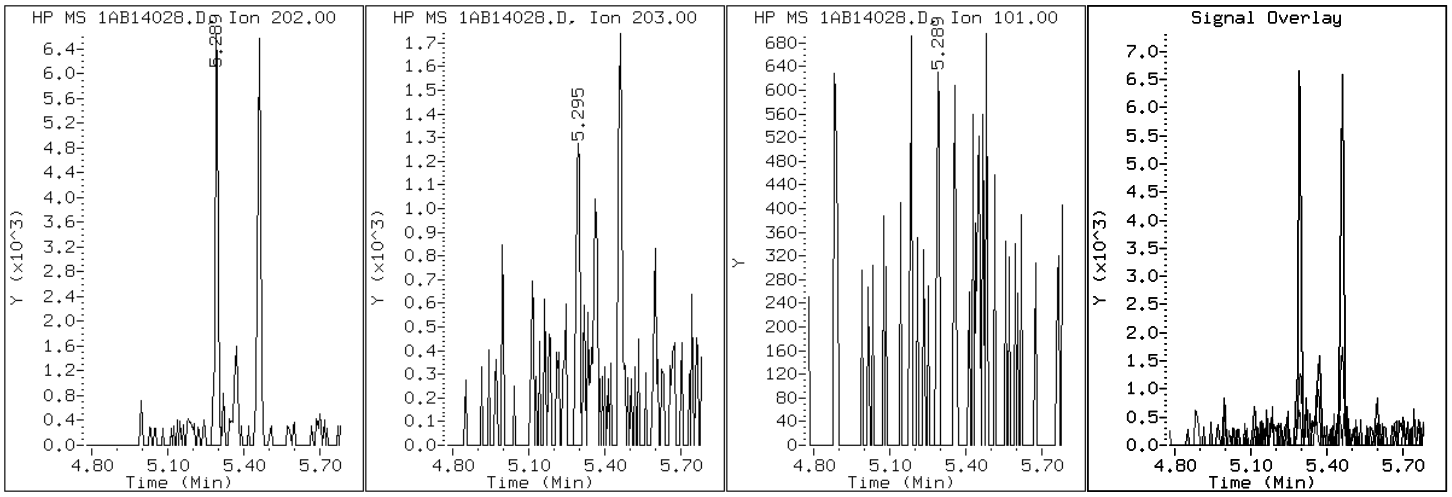
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

15 Fluoranthene



Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

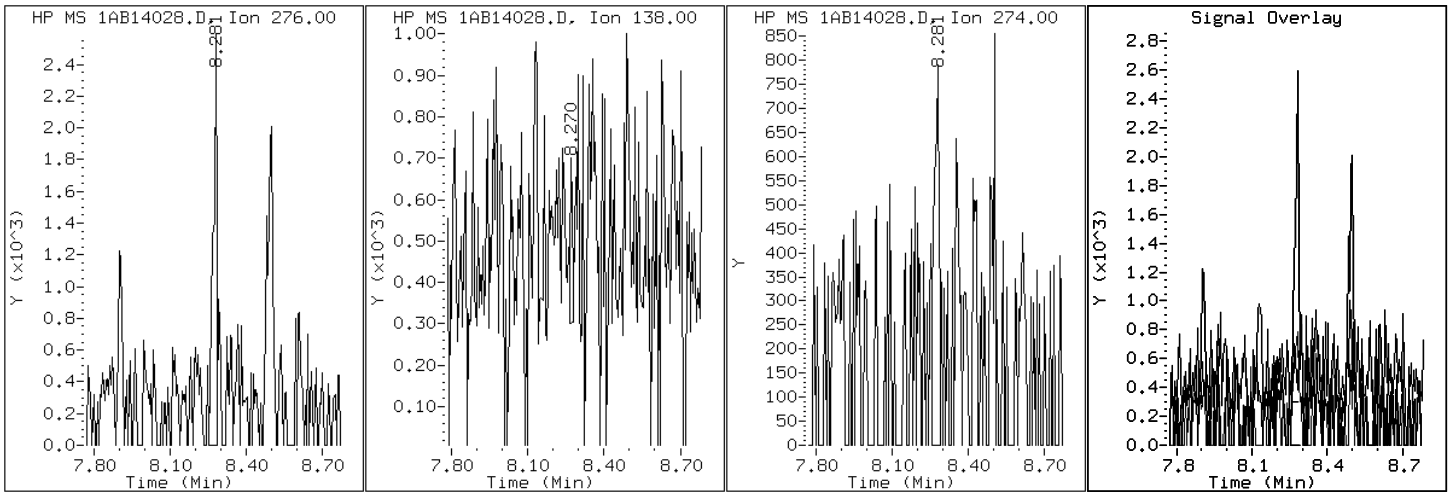
Client ID: CV0673B-CS

Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a

Operator: SCC

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



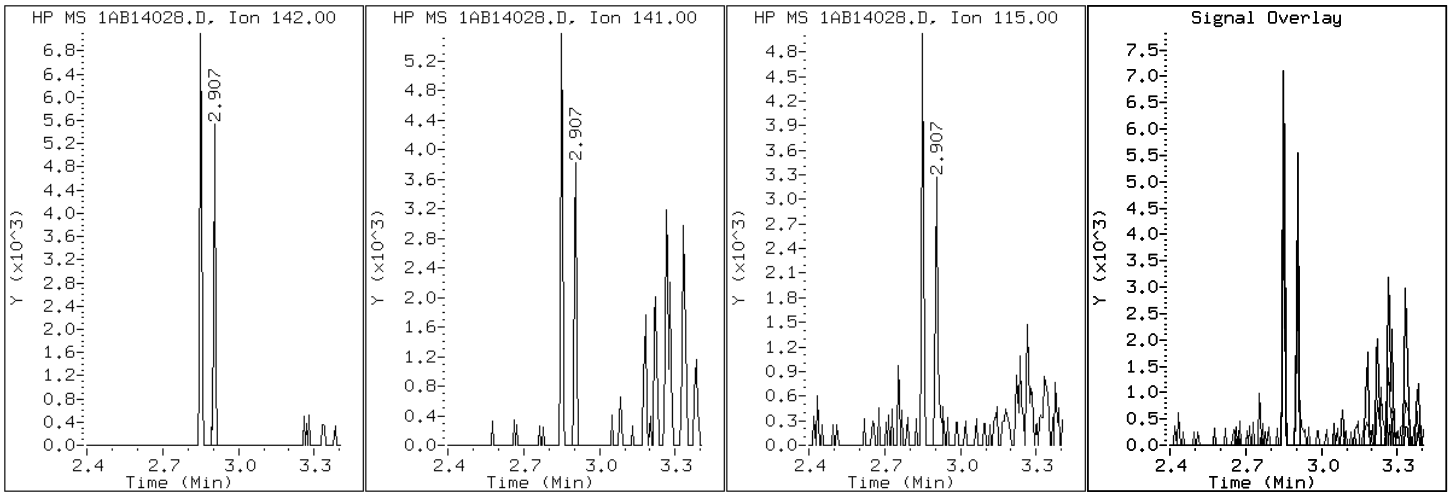
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

4 1-Methylnaphthalene



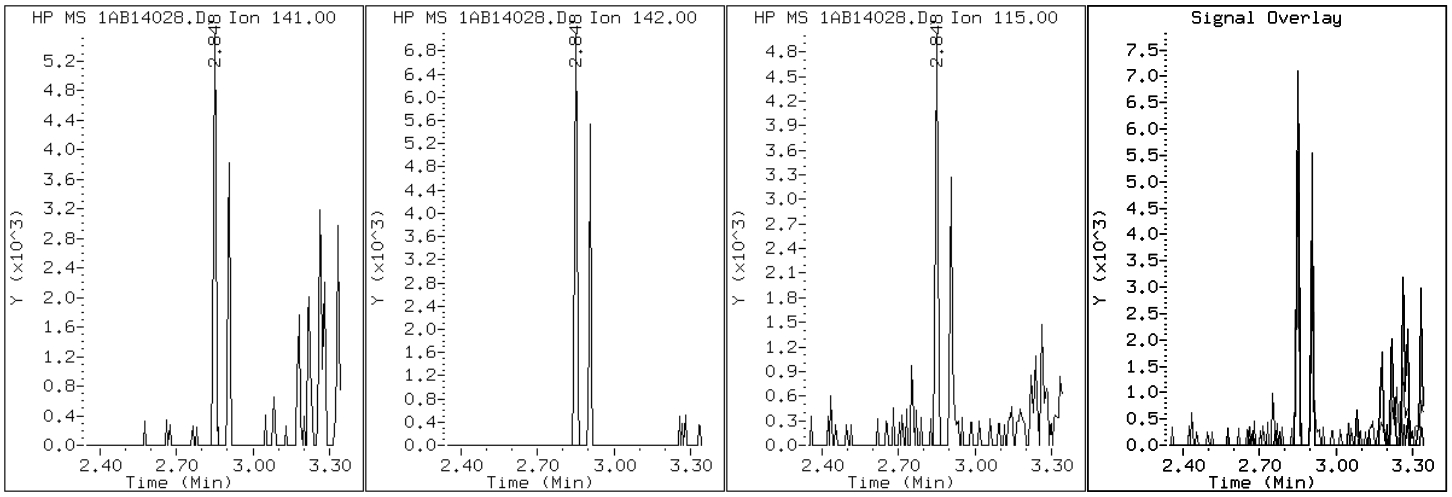
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

3 2-Methylnaphthalene



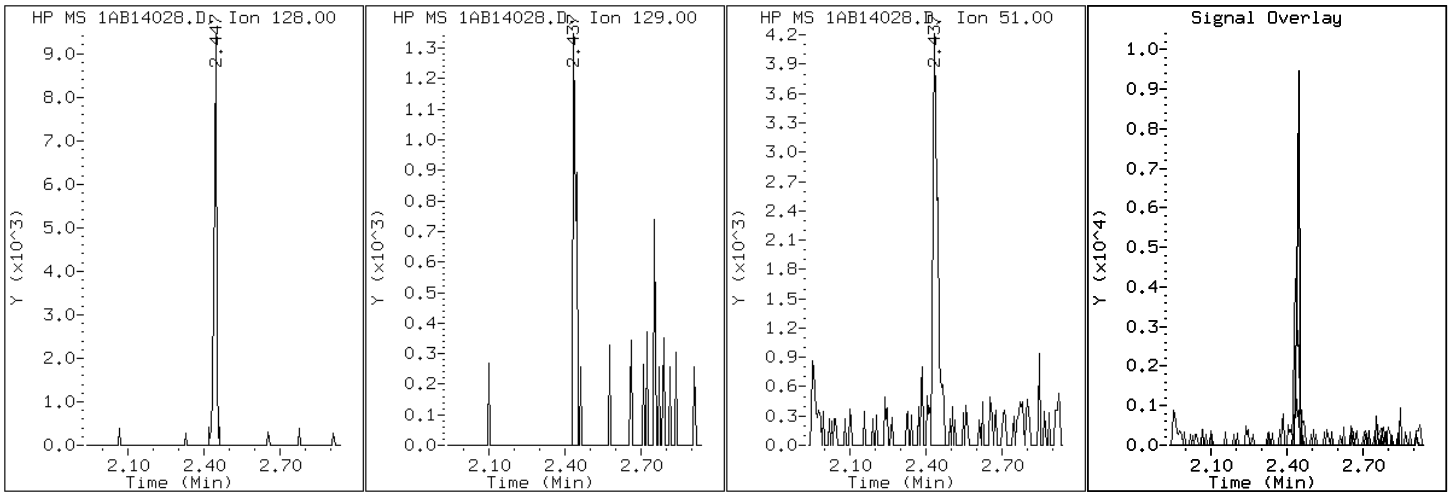
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

2 Naphthalene



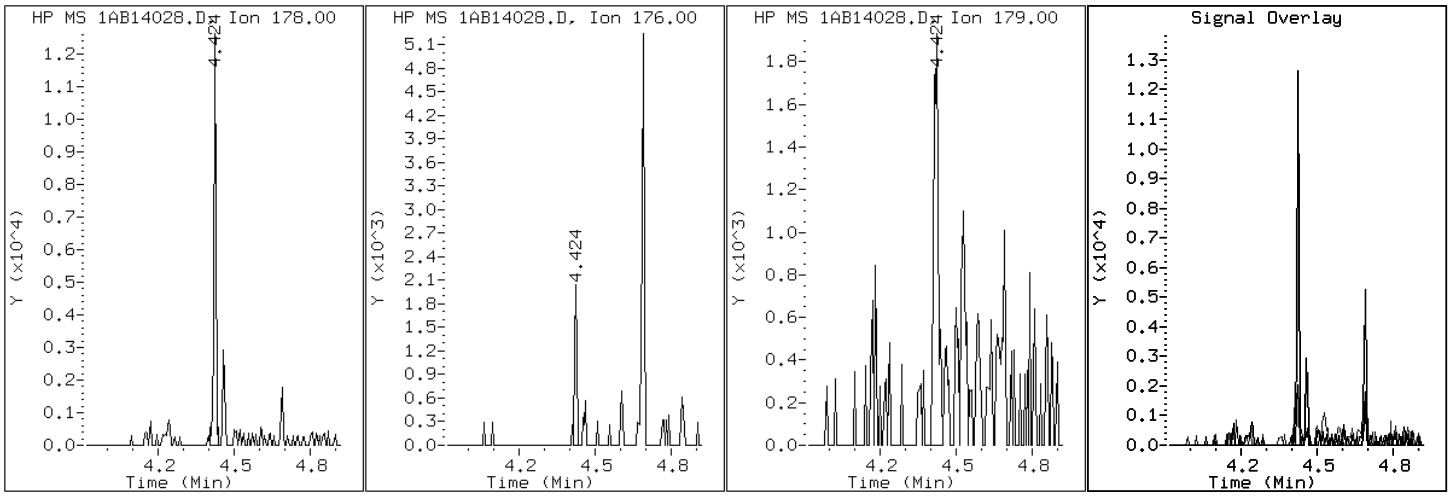
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

11 Phenanthrene



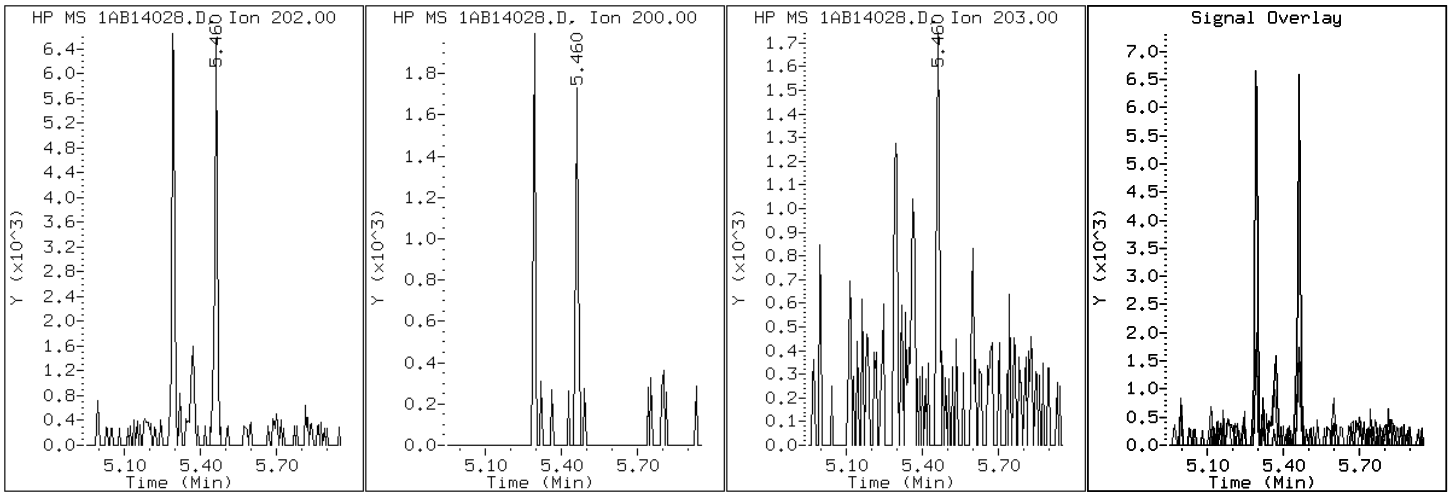
Data File: 1AB14028.D

Date: 14-FEB-2013 16:39

Client ID: CV0673B-CS Instrument: BSMA5973.i

Sample Info: 680-87218-a-40-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB14028.D
Inj. Date and Time: 14-FEB-2013 16:39
Instrument ID: BSMA5973.i
Client ID: CV0673B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/15/2013

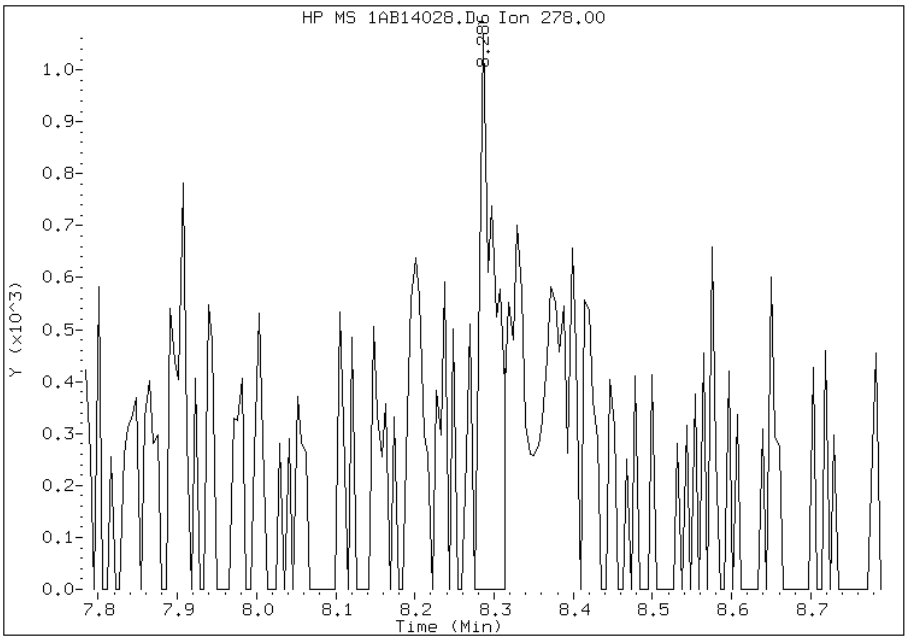
Processing Integration Results

RT: 8.29

Response: 1400

Amount: 0

Conc: 8



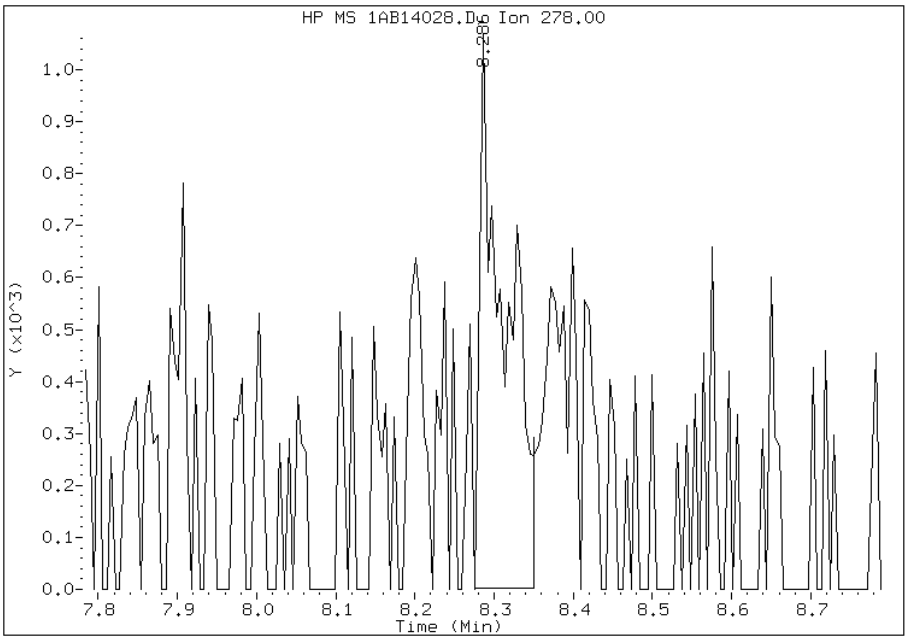
Manual Integration Results

RT: 8.29

Response: 2393

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB14028.D
Inj. Date and Time: 14-FEB-2013 16:39
Instrument ID: BSMA5973.i
Client ID: CV0673B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

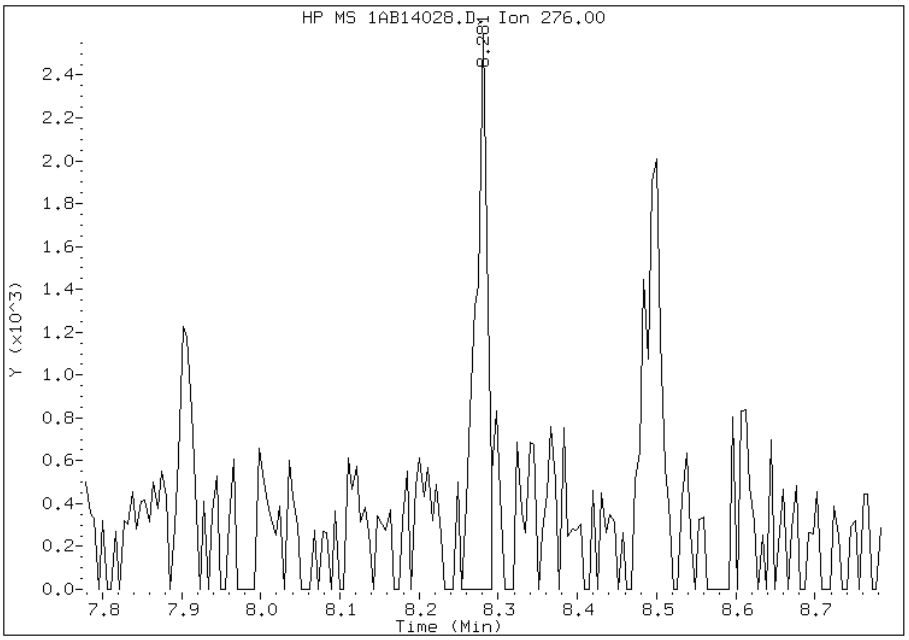
Processing Integration Results

RT: 8.28

Response: 2692

Amount: 0

Conc: 16



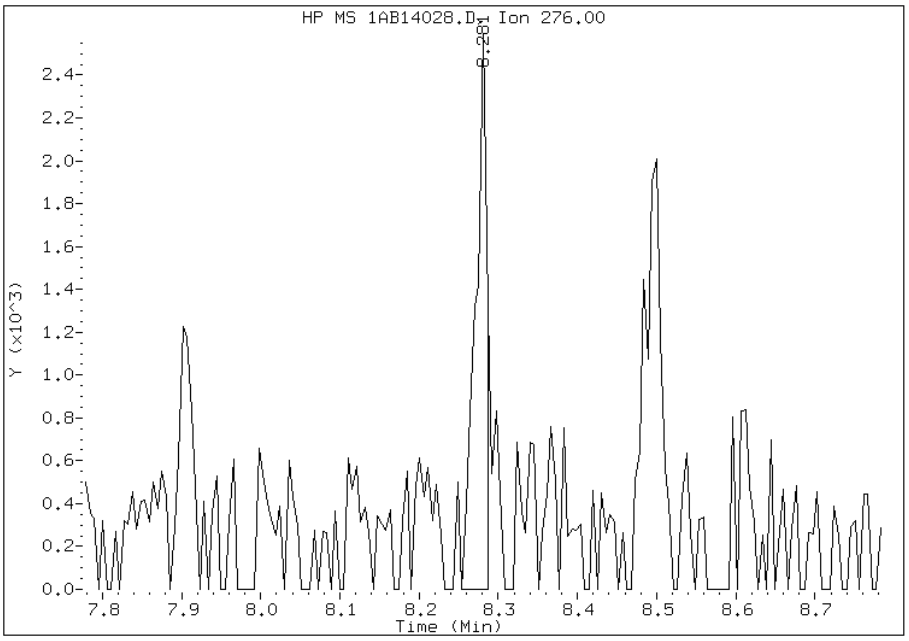
Manual Integration Results

RT: 8.28

Response: 2520

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:47
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87218-2 Analy Batch No.: 133924

SDG No.: 68087218-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133924/4	1AA30004.D
Level 2	IC 660-133924/5	1AA30005.D
Level 3	IC 660-133924/6	1AA30006.D
Level 4	IC 660-133924/7	1AA30007.D
Level 5	ICIS 660-133924/3	1AA30003.D
Level 6	IC 660-133924/8	1AA30008.D
Level 7	IC 660-133924/9	1AA30009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.8691 1.0049	0.9779 0.9900	0.9957	0.9868	0.9720	Ave		0.9709			0.0000	4.8		15.0			
2-Methylnaphthalene	0.4405 0.5310	0.5425 0.5229	0.5533	0.5344	0.5162	Ave		0.5201			0.0000	7.1		15.0			
1-Methylnaphthalene	0.5799 0.5720	0.6359 0.5649	0.5884	0.6038	0.5766	Ave		0.5888			0.0000	4.1		15.0			
Acenaphthylene	1.8063 1.7961	1.7485 1.7517	1.7336	1.7759	1.7513	Ave		1.7662			0.0000	1.5		15.0			
Acenaphthene	0.8363 0.9749	1.0408 0.9370	0.9784	0.9922	0.9321	Ave		0.9559			0.0000	6.7		15.0			
Fluorene	1.2093 1.2053	1.1827 1.1841	1.2172	1.2123	1.2033	Ave		1.2020			0.0000	1.1		15.0			
Phenanthrene	1.1514 1.0704	1.1299 1.0364	1.1042	1.0910	1.0619	Ave		1.0922			0.0000	3.7		15.0			
Anthracene	1.1112 1.0910	1.1548 1.0728	1.1460	1.1218	1.0971	Ave		1.1135			0.0000	2.7		15.0			
Carbazole	0.9544 0.9635	0.9474 0.9325	0.9805	0.9504	0.9530	Ave		0.9545			0.0000	1.5		15.0			
Fluoranthene	1.0706 1.0987	1.0941 1.0549	1.0898	1.1074	1.0642	Ave		1.0828			0.0000	1.8		15.0			
Pyrene	1.4604 1.4486	1.4735 1.4287	1.4495	1.4522	1.3994	Ave		1.4446			0.0000	1.7		15.0			
Benzo[a]anthracene	1.8736 1.2185	1.3140 1.1887	1.2043	1.2254	1.1641	LinF		1.1943			0.0000				0.9996		0.9900
Chrysene	1.2214 1.1280	1.2208 1.1199	1.1854	1.1445	1.1290	Ave		1.1642			0.0000	3.8		15.0			
Benzo[b]fluoranthene	0.8835 1.1569	1.1859 1.1686	1.0690	1.1835	1.1674	Ave		1.1164			0.0000	9.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87218-2 Analy Batch No.: 133924

SDG No.: 68087218-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.3342 1.1629	1.1471 1.0500	1.2419	1.1682	1.0664	Ave		1.1672			0.0000	8.4		15.0			
Benzo[a]pyrene	1.0378 1.0773	1.0634 1.0590	1.0649	1.0975	1.0213	Ave		1.0602			0.0000	2.4		15.0			
Indeno[1,2,3-cd]pyrene	0.7463 0.8627	0.8312 0.8416	0.8499	0.8359	0.8924	Ave		0.8371			0.0000	5.4		15.0			
Dibenz(a,h)anthracene	0.8535 0.8371	0.8458 0.8214	0.8193	0.8495	0.8317	Ave		0.8369			0.0000	1.6		15.0			
Benzo[g,h,i]perylene	0.8260 0.8801	0.8693 0.8717	0.8470	0.8981	0.8787	Ave		0.8673			0.0000	2.7		15.0			
o-Terphenyl	0.6160 0.5745	0.5755 0.5632	0.5719	0.5995	0.5679	Ave		0.5812			0.0000	3.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87218-2 Analy Batch No.: 133924

SDG No.: 68087218-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133924/4	1AA30004.D
Level 2	IC 660-133924/5	1AA30005.D
Level 3	IC 660-133924/6	1AA30006.D
Level 4	IC 660-133924/7	1AA30007.D
Level 5	ICIS 660-133924/3	1AA30003.D
Level 6	IC 660-133924/8	1AA30008.D
Level 7	IC 660-133924/9	1AA30009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	6607 931156	30367 1392262	157606	301178	659441	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	3349 492071	16848 735363	87583	163104	350225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	4409 530019	19749 794373	93134	184298	391143	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	8115 932857	32040 1380232	163466	310278	673599	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	3757 506350	19071 738267	92259	173347	358522	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5433 626008	21671 932971	114770	211811	462830	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	7708 845549	30365 1235274	153087	280076	620739	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	7439 861847	31036 1278708	158879	287973	641280	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	6389 761082	25461 1111447	135929	243964	557093	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	7167 867897	29405 1257334	151084	284287	622099	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	7924 909822	32526 1318254	165790	301919	659745	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	10166 765266	29004 1096876	137745	254775	548828	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	6627 708484	26947 1033398	135587	237952	532301	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	4560 708379	25297 1080002	117636	238908	520719	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	6886 712080	24469 970372	136662	235819	475653	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87218-2 Analy Batch No.: 133924

SDG No.: 68087218-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	5356 659672	22683 978664	117182	221540	455561	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	3852 528224	17731 777793	93523	168724	398038	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	4405 512548	18042 759088	90159	171475	370987	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4263 538912	18543 805634	93202	181282	391957	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	4124 453816	15467 671289	79289	153886	331984	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30003.D
Lab Smp Id: ICIS-1489898
Inj Date : 30-JAN-2013 11:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.508	2.508	(1.000)	1356829	40.0000	
* 6 Acenaphthene-d10	164	3.539	3.539	(1.000)	769245	40.0000	
* 10 Phenanthrene-d10	188	4.501	4.501	(1.000)	1169097	40.0000	
$ 14 o-Terphenyl	230	4.779	4.779	(1.062)	331984	20.0000	19.5427
* 18 Chrysene-d12	240	6.536	6.536	(1.000)	942927	40.0000	
* 23 Perylene-d12	264	7.637	7.637	(1.000)	892108	40.0000	
2 Naphthalene	128	2.519	2.519	(1.004)	659441	20.0000	20.0234
3 2-Methylnaphthalene	141	2.925	2.925	(1.166)	350225	20.0000	19.8505
4 1-Methylnaphthalene	142	2.978	2.978	(1.187)	391143	20.0000	19.5846
5 Acenaphthylene	152	3.454	3.454	(0.976)	673599	20.0000	19.8314
7 Acenaphthene	154	3.555	3.555	(1.005)	358522	20.0000	19.5019
9 Fluorene	166	3.871	3.871	(1.094)	462830	20.0000	20.0218
11 Phenanthrene	178	4.517	4.517	(1.004)	620739	20.0000	19.4458
12 Anthracene	178	4.549	4.549	(1.011)	641280	20.0000	19.7039
13 Carbazole	167	4.704	4.704	(1.045)	557093	20.0000	19.9690
15 Fluoranthene	202	5.388	5.388	(1.197)	622099	20.0000	19.6567
16 Pyrene	202	5.559	5.559	(0.850)	659745	20.0000	19.3736
17 Benzo(a)anthracene	228	6.531	6.531	(0.999)	548828	20.0000	19.4934
19 Chrysene	228	6.558	6.558	(1.003)	532301	20.0000	19.3967
20 Benzo(b)fluoranthene	252	7.359	7.359	(0.964)	520719	20.0000	20.9132
21 Benzo(k)fluoranthene	252	7.380	7.380	(0.966)	475653	20.0000	18.2713
22 Benzo(a)pyrene	252	7.594	7.594	(0.994)	455561	20.0000	19.2671
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.427	(1.104)	398038	20.0000	21.3193(M)
25 Dibenzo(a,h)anthracene	278	8.443	8.443	(1.106)	370987	20.0000	19.8762
26 Benzo(g,h,i)perylene	276	8.657	8.657	(1.134)	391957	20.0000	20.2641

QC Flag Legend

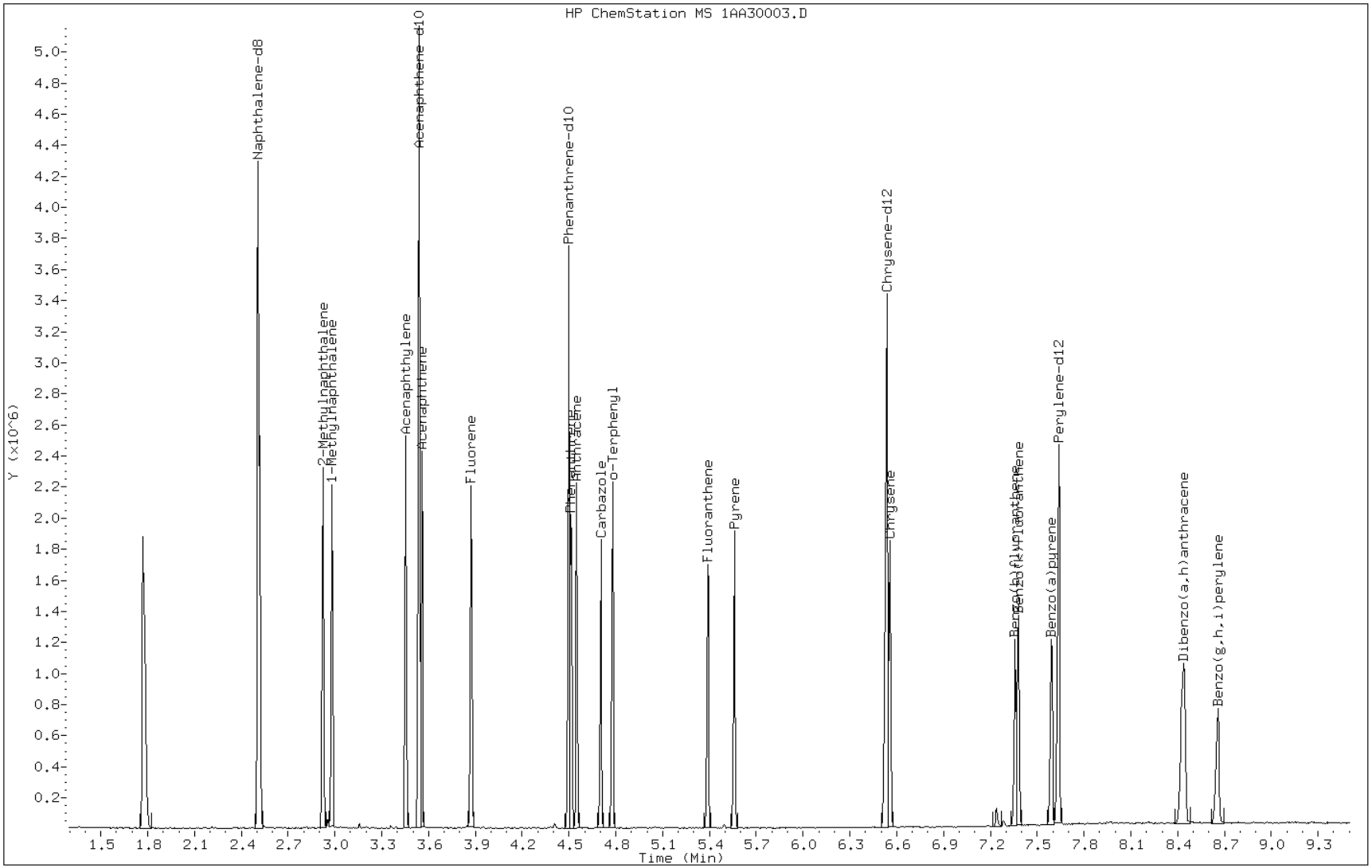
M - Compound response manually integrated.

Data File: 1AA30003.D

Date: 30-JAN-2013 11:38

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1AA30003.D
Inj. Date and Time: 30-JAN-2013 11:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

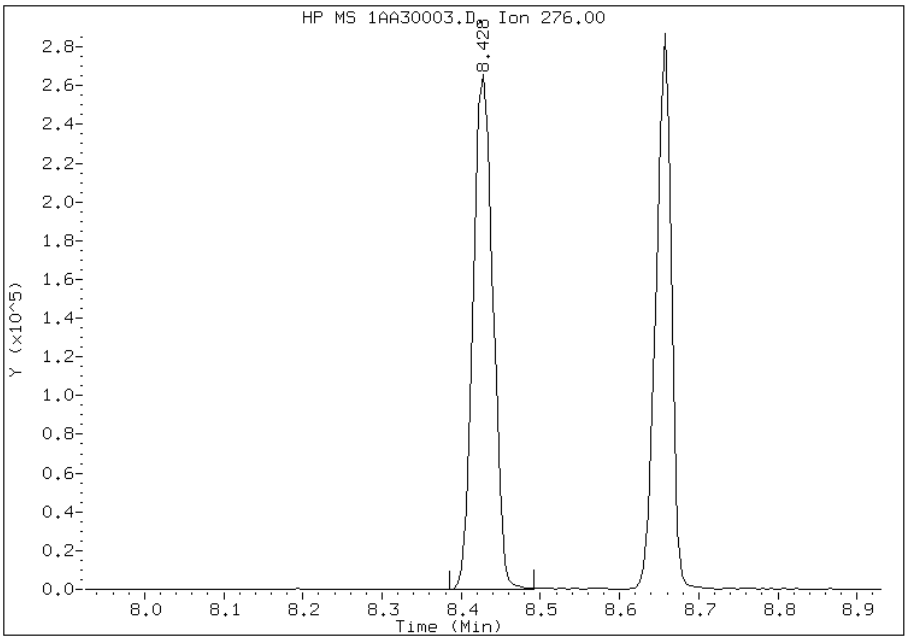
Processing Integration Results

RT: 8.43

Response: 458405

Amount: 22

Conc: 22



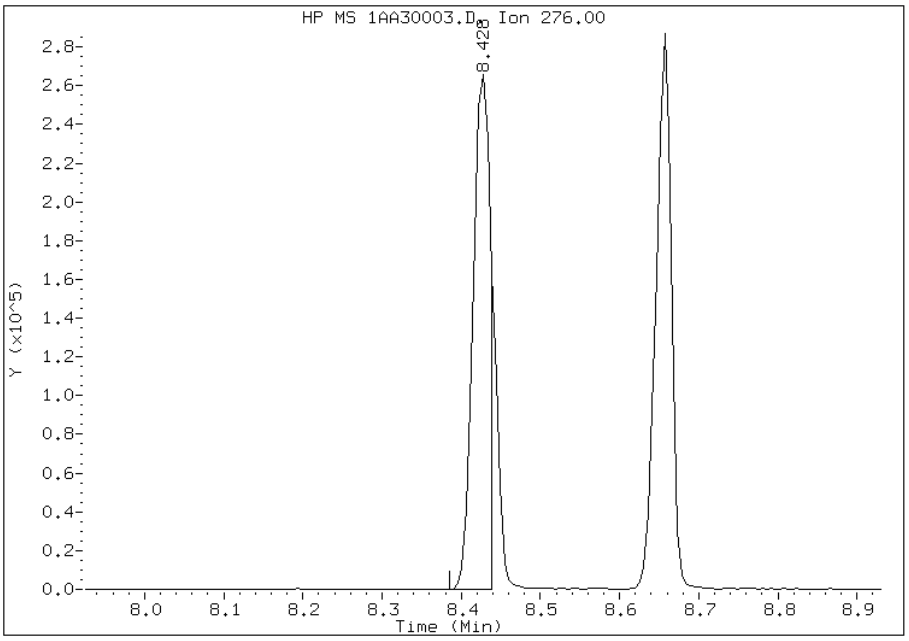
Manual Integration Results

RT: 8.43

Response: 398038

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 12:17
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30004.D
Lab Smp Id: IC-1489894
Inj Date : 30-JAN-2013 12:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 11:38 Cal File: 1AA30003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.508	2.508	(1.000)	1520482	40.0000	
* 6 Acenaphthene-d10	164	3.539	3.539	(1.000)	898530	40.0000	
* 10 Phenanthrene-d10	188	4.501	4.501	(1.000)	1338880	40.0000	
$ 14 o-Terphenyl	230	4.779	4.779	(1.062)	4124	0.20000	0.2119
* 18 Chrysene-d12	240	6.536	6.536	(1.000)	1085169	40.0000	
* 23 Perylene-d12	264	7.647	7.637	(1.000)	1032233	40.0000	
2 Naphthalene	128	2.519	2.519	(1.004)	6607	0.20000	0.1790
3 2-Methylnaphthalene	141	2.925	2.925	(1.166)	3349	0.20000	0.1693
4 1-Methylnaphthalene	142	2.978	2.978	(1.187)	4409	0.20000	0.1969
5 Acenaphthylene	152	3.454	3.454	(0.976)	8115	0.20000	0.2045
7 Acenaphthene	154	3.555	3.555	(1.005)	3757	0.20000	0.1749
9 Fluorene	166	3.870	3.871	(1.094)	5433	0.20000	0.2012
11 Phenanthrene	178	4.512	4.517	(1.002)	7708	0.20000	0.2108(M)
12 Anthracene	178	4.549	4.549	(1.011)	7439	0.20000	0.1995
13 Carbazole	167	4.704	4.704	(1.045)	6389	0.20000	0.1999
15 Fluoranthene	202	5.388	5.388	(1.197)	7167	0.20000	0.1977
16 Pyrene	202	5.559	5.559	(0.850)	7924	0.20000	0.2021
17 Benzo(a)anthracene	228	6.531	6.531	(0.999)	10166	0.20000	0.3137
19 Chrysene	228	6.552	6.558	(1.002)	6627	0.20000	0.2098
20 Benzo(b)fluoranthene	252	7.359	7.359	(0.962)	4560	0.20000	0.1582(H)
21 Benzo(k)fluoranthene	252	7.375	7.380	(0.964)	6886	0.20000	0.2286
22 Benzo(a)pyrene	252	7.594	7.594	(0.993)	5356	0.20000	0.1957
24 Indeno(1,2,3-cd)pyrene	276	8.433	8.427	(1.103)	3852	0.20000	0.1783(M)
25 Dibenzo(a,h)anthracene	278	8.443	8.443	(1.104)	4405	0.20000	0.2039
26 Benzo(g,h,i)perylene	276	8.657	8.657	(1.132)	4263	0.20000	0.1904

QC Flag Legend

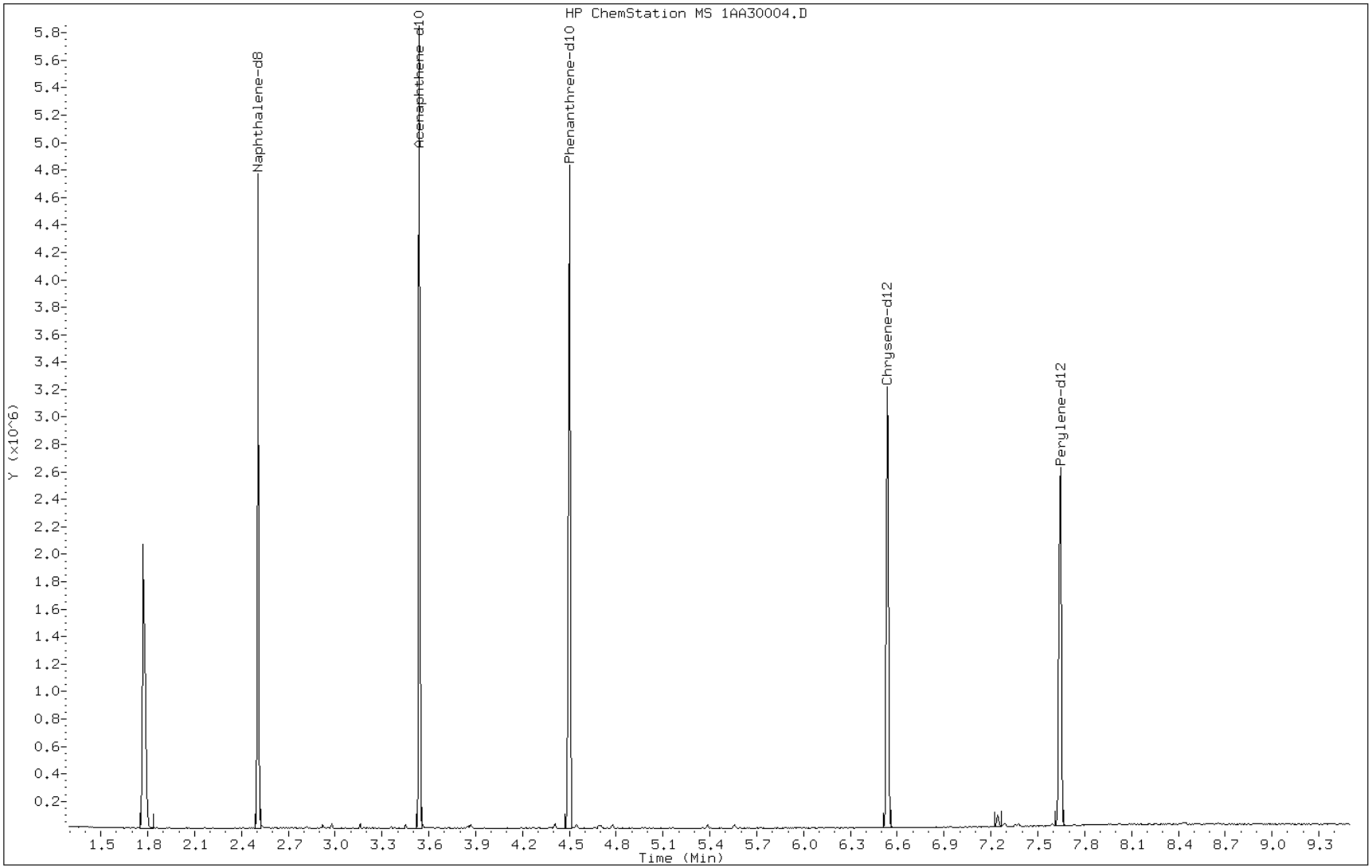
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AA30004.D

Date: 30-JAN-2013 12:04

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1AA30004.D
Inj. Date and Time: 30-JAN-2013 12:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 11 Phenanthrene
CAS #: 85-01-8
Report Date: 01/30/2013

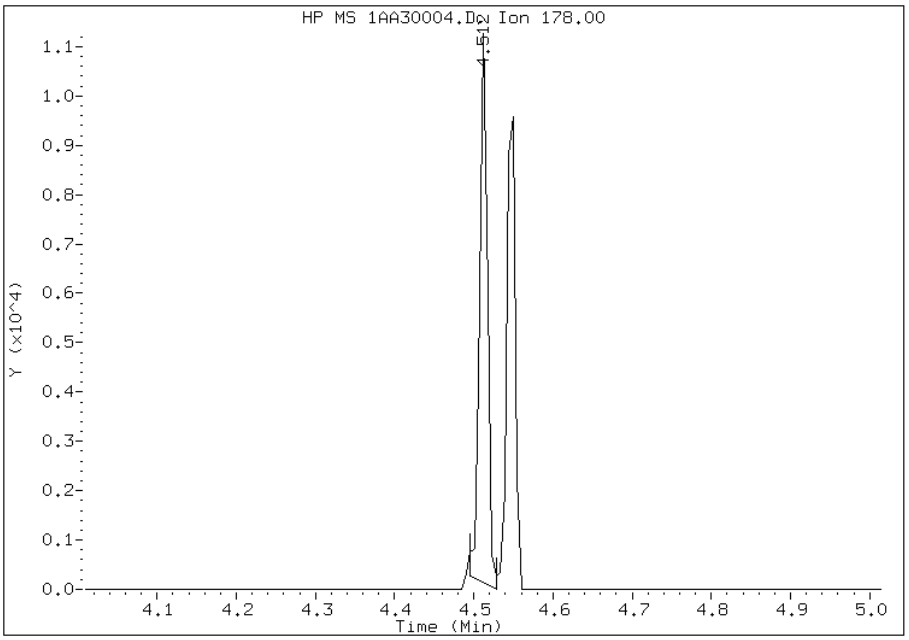
Processing Integration Results

RT: 4.51

Response: 7417

Amount: 0

Conc: 0



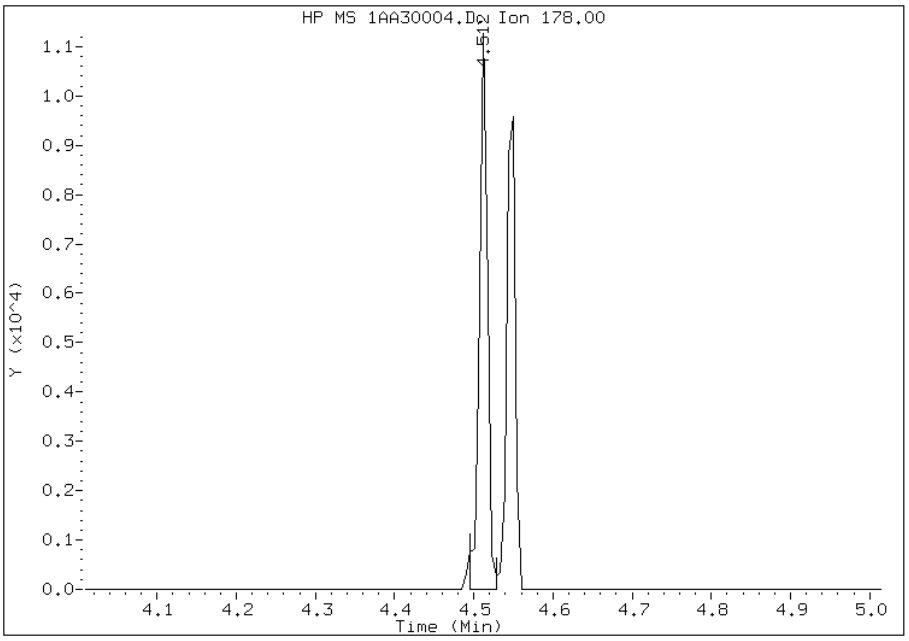
Manual Integration Results

RT: 4.51

Response: 7708

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AA30004.D
Inj. Date and Time: 30-JAN-2013 12:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

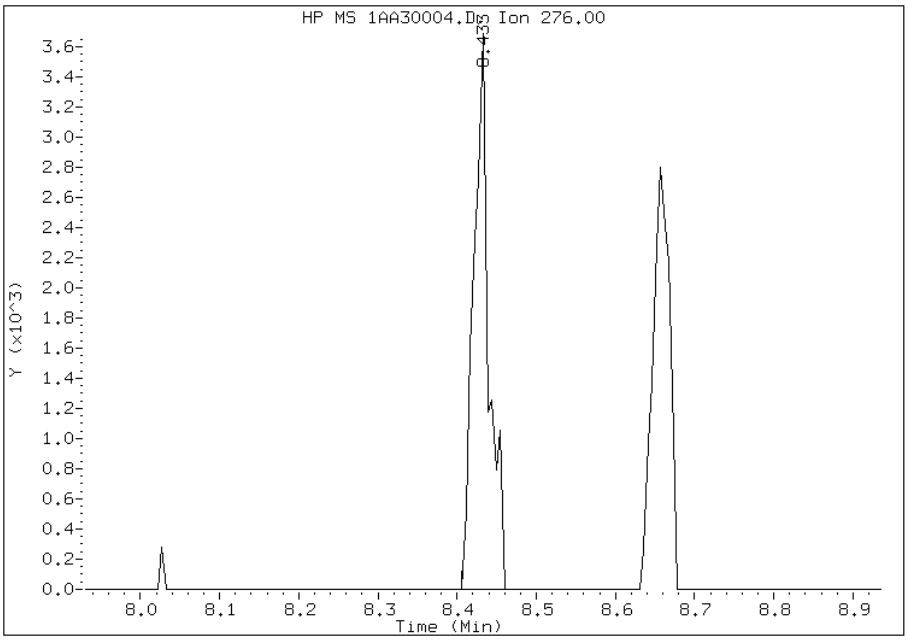
Processing Integration Results

RT: 8.43

Response: 4847

Amount: 0

Conc: 0



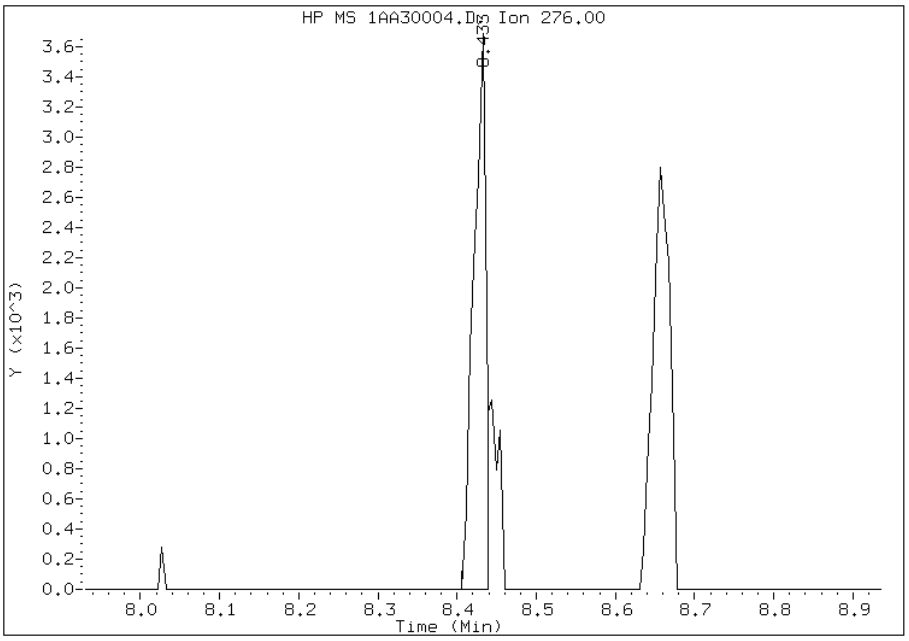
Manual Integration Results

RT: 8.43

Response: 3852

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:28
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30005.D
Lab Smp Id: IC-1489895
Inj Date : 30-JAN-2013 12:19
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:04 Cal File: 1AA30004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.505	2.508	(1.000)	1242193	40.0000	
* 6 Acenaphthene-d10	164	3.536	3.539	(1.000)	732960	40.0000	
* 10 Phenanthrene-d10	188	4.498	4.501	(1.000)	1075002	40.0000	
$ 14 o-Terphenyl	230	4.776	4.779	(1.062)	15467	1.00000	0.9901
* 18 Chrysene-d12	240	6.533	6.536	(1.000)	882947	40.0000	
* 23 Perylene-d12	264	7.634	7.637	(1.000)	853244	40.0000	
2 Naphthalene	128	2.516	2.519	(1.004)	30367	1.00000	1.0071
3 2-Methylnaphthalene	141	2.922	2.925	(1.166)	16848	1.00000	1.0430
4 1-Methylnaphthalene	142	2.976	2.978	(1.188)	19749	1.00000	1.0800
5 Acenaphthylene	152	3.451	3.454	(0.976)	32040	1.00000	0.9899
7 Acenaphthene	154	3.552	3.555	(1.005)	19071	1.00000	1.0887
9 Fluorene	166	3.868	3.871	(1.094)	21671	1.00000	0.9838
11 Phenanthrene	178	4.509	4.517	(1.002)	30365	1.00000	1.0345
12 Anthracene	178	4.546	4.549	(1.011)	31036	1.00000	1.0370
13 Carbazole	167	4.701	4.704	(1.045)	25461	1.00000	0.9925
15 Fluoranthene	202	5.385	5.388	(1.197)	29405	1.00000	1.0104
16 Pyrene	202	5.556	5.559	(0.850)	32526	1.00000	1.0200
17 Benzo(a)anthracene	228	6.523	6.531	(0.998)	29004	1.00000	1.1001
19 Chrysene	228	6.549	6.558	(1.002)	26947	1.00000	1.0486
20 Benzo(b)fluoranthene	252	7.351	7.359	(0.963)	25297	1.00000	1.0622
21 Benzo(k)fluoranthene	252	7.372	7.380	(0.966)	24469	1.00000	0.9827
22 Benzo(a)pyrene	252	7.586	7.594	(0.994)	22683	1.00000	1.0030
24 Indeno(1,2,3-cd)pyrene	276	8.408	8.427	(1.101)	17731	1.00000	0.9929(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.443	(1.104)	18042	1.00000	1.0106
26 Benzo(g,h,i)perylene	276	8.638	8.657	(1.132)	18543	1.00000	1.0023

QC Flag Legend

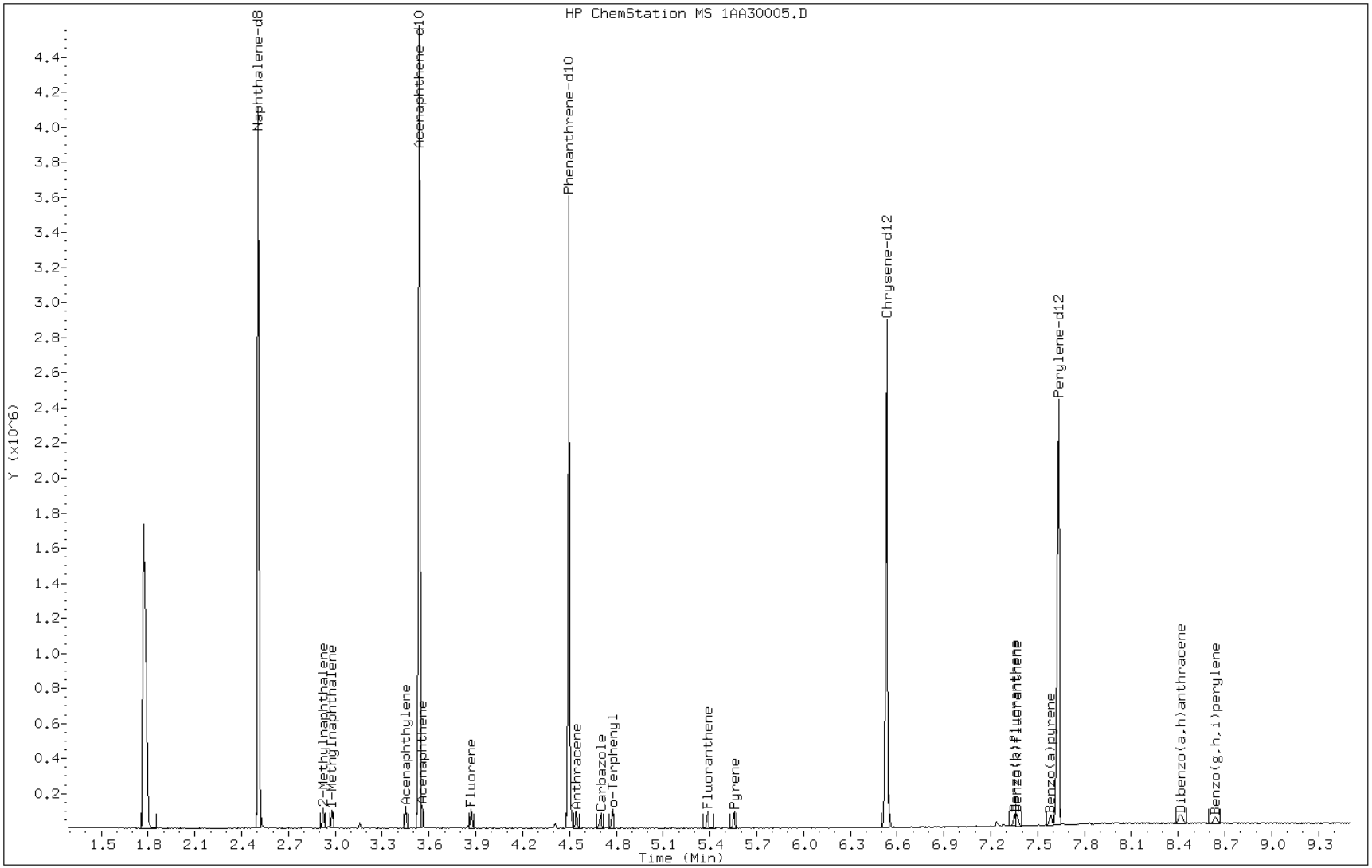
M - Compound response manually integrated.

Data File: 1AA30005.D

Date: 30-JAN-2013 12:19

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1AA30005.D
Inj. Date and Time: 30-JAN-2013 12:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

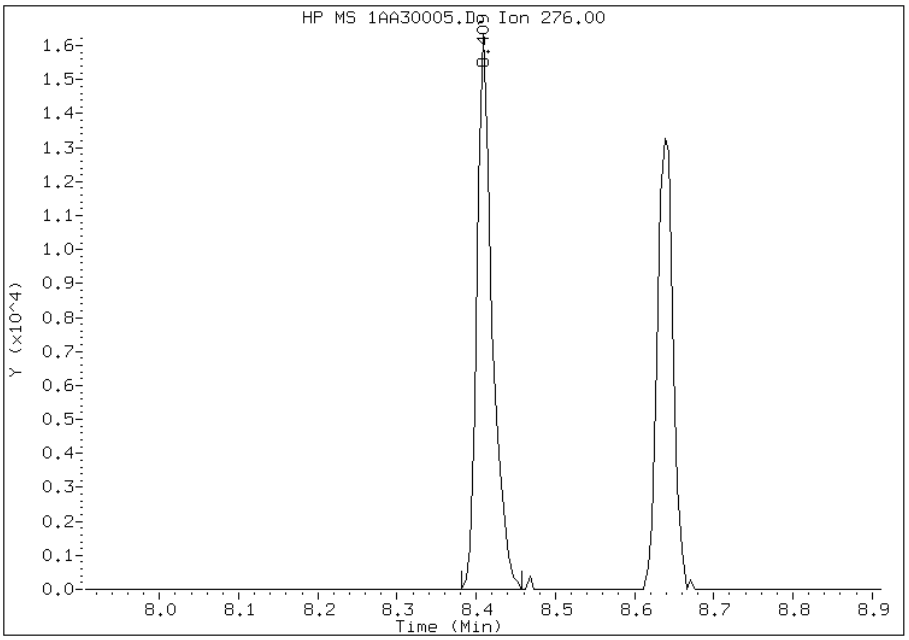
Processing Integration Results

RT: 8.41

Response: 21625

Amount: 1

Conc: 1



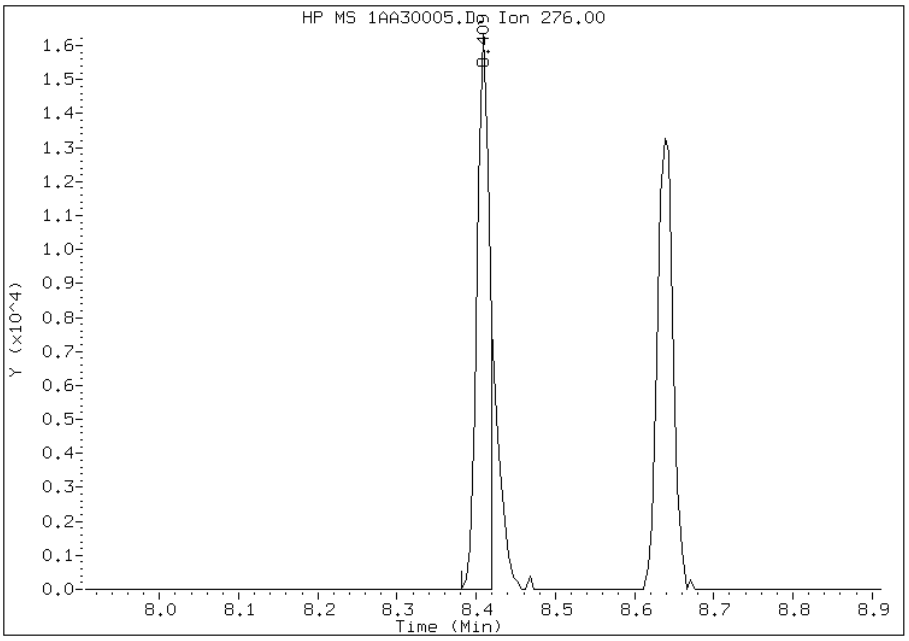
Manual Integration Results

RT: 8.41

Response: 17731

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30006.D
Lab Smp Id: IC-1489896
Inj Date : 30-JAN-2013 12:34
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:19 Cal File: 1AA30005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.509	2.508	(1.000)	1266331	40.0000	
* 6 Acenaphthene-d10	164	3.540	3.539	(1.000)	754333	40.0000	
* 10 Phenanthrene-d10	188	4.496	4.501	(1.000)	1109110	40.0000	
$ 14 o-Terphenyl	230	4.774	4.779	(1.062)	79289	5.00000	4.9199
* 18 Chrysene-d12	240	6.532	6.536	(1.000)	915040	40.0000	
* 23 Perylene-d12	264	7.632	7.637	(1.000)	880349	40.0000	
2 Naphthalene	128	2.520	2.519	(1.004)	157606	5.00000	5.1275
3 2-Methylnaphthalene	141	2.920	2.925	(1.164)	87583	5.00000	5.3189
4 1-Methylnaphthalene	142	2.979	2.978	(1.187)	93134	5.00000	4.9965
5 Acenaphthylene	152	3.455	3.454	(0.976)	163466	5.00000	4.9077
7 Acenaphthene	154	3.556	3.555	(1.005)	92259	5.00000	5.1176
9 Fluorene	166	3.871	3.871	(1.094)	114770	5.00000	5.0630
11 Phenanthrene	178	4.512	4.517	(1.004)	153087	5.00000	5.0551
12 Anthracene	178	4.544	4.549	(1.011)	158879	5.00000	5.1457
13 Carbazole	167	4.699	4.704	(1.045)	135929	5.00000	5.1359
15 Fluoranthene	202	5.383	5.388	(1.197)	151084	5.00000	5.0320
16 Pyrene	202	5.554	5.559	(0.850)	165790	5.00000	5.0168
17 Benzo(a)anthracene	228	6.526	6.531	(0.999)	137745	5.00000	5.0415
19 Chrysene	228	6.553	6.558	(1.003)	135587	5.00000	5.0912
20 Benzo(b)fluoranthene	252	7.354	7.359	(0.964)	117636	5.00000	4.7876
21 Benzo(k)fluoranthene	252	7.370	7.380	(0.966)	136662	5.00000	5.3197
22 Benzo(a)pyrene	252	7.584	7.594	(0.994)	117182	5.00000	5.0222
24 Indeno(1,2,3-cd)pyrene	276	8.412	8.427	(1.102)	93523	5.00000	5.0760(M)
25 Dibenzo(a,h)anthracene	278	8.428	8.443	(1.104)	90159	5.00000	4.8949
26 Benzo(g,h,i)perylene	276	8.642	8.657	(1.132)	93202	5.00000	4.8828

QC Flag Legend

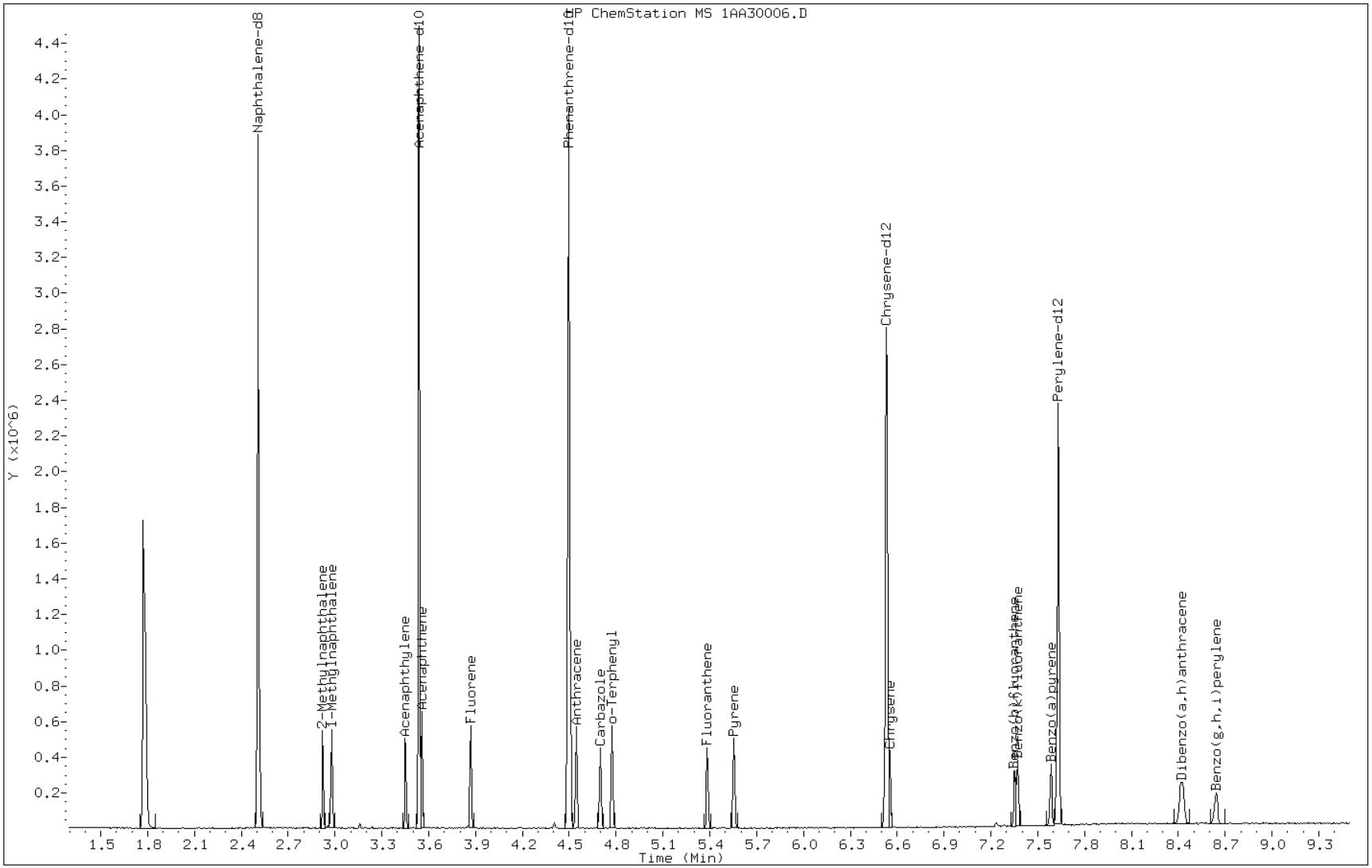
M - Compound response manually integrated.

Data File: 1AA30006.D

Date: 30-JAN-2013 12:34

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489896 Operator: SCC



Manual Integration Report

Data File: 1AA30006.D
Inj. Date and Time: 30-JAN-2013 12:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

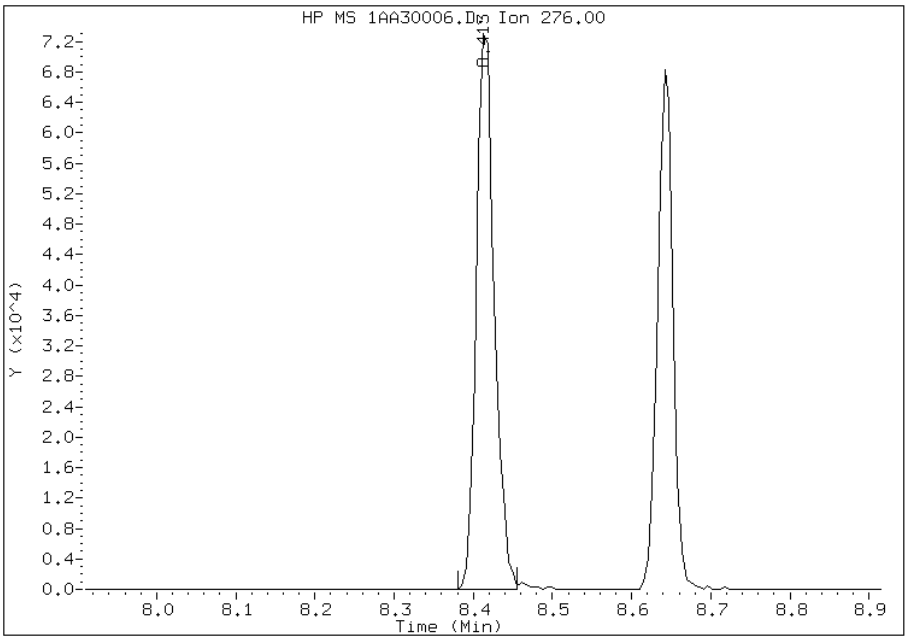
Processing Integration Results

RT: 8.41

Response: 113911

Amount: 5

Conc: 5



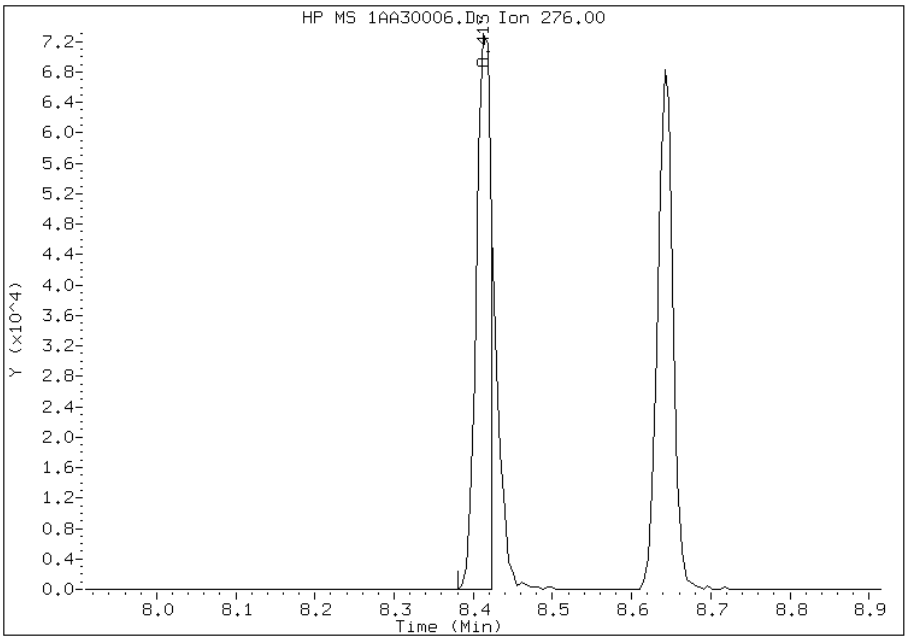
Manual Integration Results

RT: 8.41

Response: 93523

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30007.D
Lab Smp Id: IC-1489897
Inj Date : 30-JAN-2013 12:49
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:34 Cal File: 1AA30006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.506	2.508	(1.000)	1220847	40.0000	
* 6 Acenaphthene-d10	164	3.537	3.539	(1.000)	698867	40.0000	
* 10 Phenanthrene-d10	188	4.499	4.501	(1.000)	1026818	40.0000	
$ 14 o-Terphenyl	230	4.777	4.779	(1.062)	153886	10.0000	10.3139
* 18 Chrysene-d12	240	6.534	6.536	(1.000)	831641	40.0000	
* 23 Perylene-d12	264	7.635	7.637	(1.000)	807429	40.0000	
2 Naphthalene	128	2.517	2.519	(1.004)	301178	10.0000	10.1636
3 2-Methylnaphthalene	141	2.923	2.925	(1.166)	163104	10.0000	10.2743
4 1-Methylnaphthalene	142	2.976	2.978	(1.188)	184298	10.0000	10.2556
5 Acenaphthylene	152	3.452	3.454	(0.976)	310278	10.0000	10.0548
7 Acenaphthene	154	3.553	3.555	(1.005)	173347	10.0000	10.3788
9 Fluorene	166	3.868	3.871	(1.094)	211811	10.0000	10.0855
11 Phenanthrene	178	4.510	4.517	(1.002)	280076	10.0000	9.9896
12 Anthracene	178	4.547	4.549	(1.011)	287973	10.0000	10.0743
13 Carbazole	167	4.702	4.704	(1.045)	243964	10.0000	9.9566
15 Fluoranthene	202	5.386	5.388	(1.197)	284287	10.0000	10.2274
16 Pyrene	202	5.557	5.559	(0.850)	301919	10.0000	10.0523
17 Benzo(a)anthracene	228	6.524	6.531	(0.998)	254775	10.0000	10.2600
19 Chrysene	228	6.550	6.558	(1.002)	237952	10.0000	9.8311
20 Benzo(b)fluoranthene	252	7.352	7.359	(0.963)	238908	10.0000	10.6013
21 Benzo(k)fluoranthene	252	7.373	7.380	(0.966)	235819	10.0000	10.0085
22 Benzo(a)pyrene	252	7.581	7.594	(0.993)	221540	10.0000	10.3523
24 Indeno(1,2,3-cd)pyrene	276	8.415	8.427	(1.102)	168724	10.0000	9.9847(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.443	(1.104)	171475	10.0000	10.1505
26 Benzo(g,h,i)perylene	276	8.644	8.657	(1.132)	181282	10.0000	10.3551

QC Flag Legend

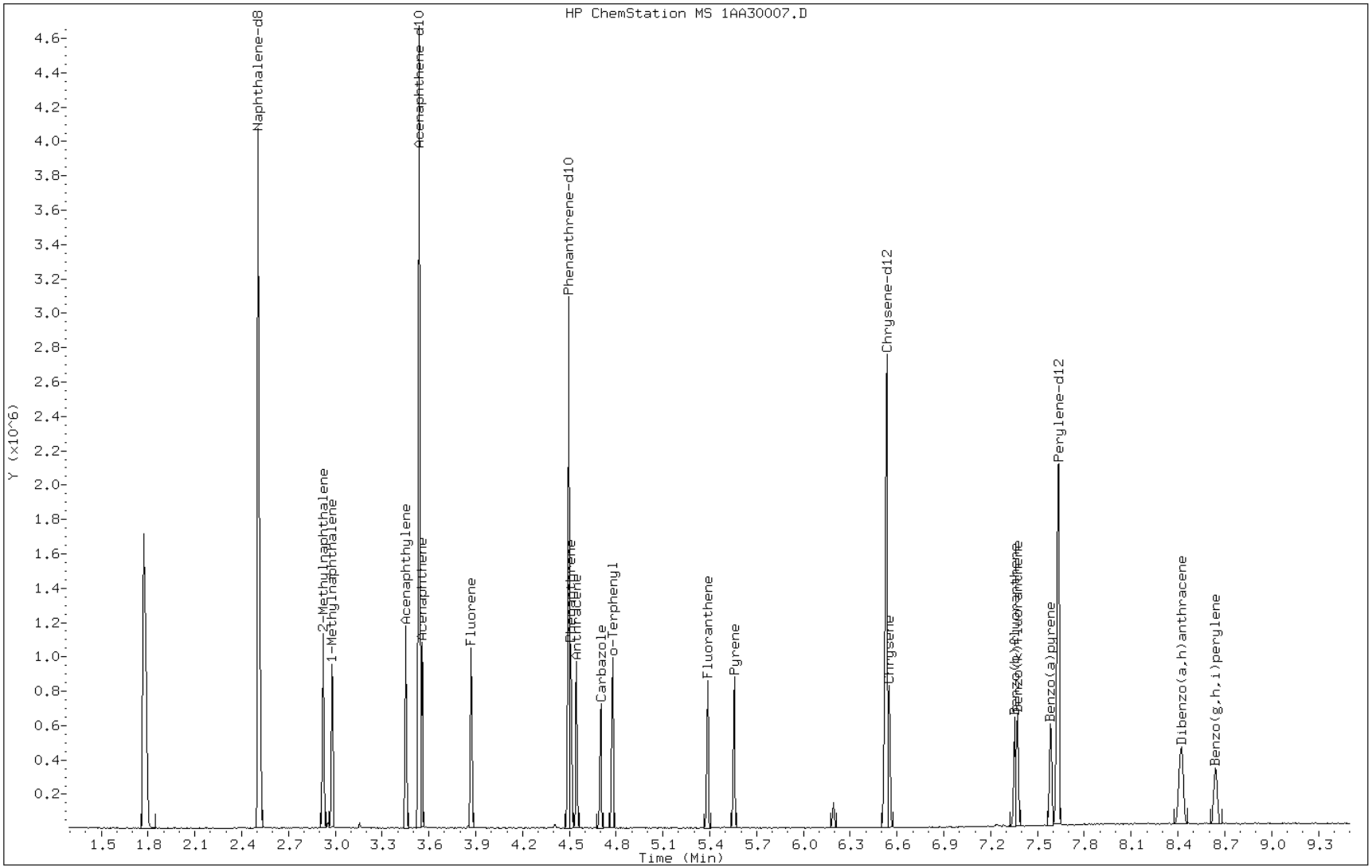
M - Compound response manually integrated.

Data File: 1AA30007.D

Date: 30-JAN-2013 12:49

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1AA30007.D
Inj. Date and Time: 30-JAN-2013 12:49
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

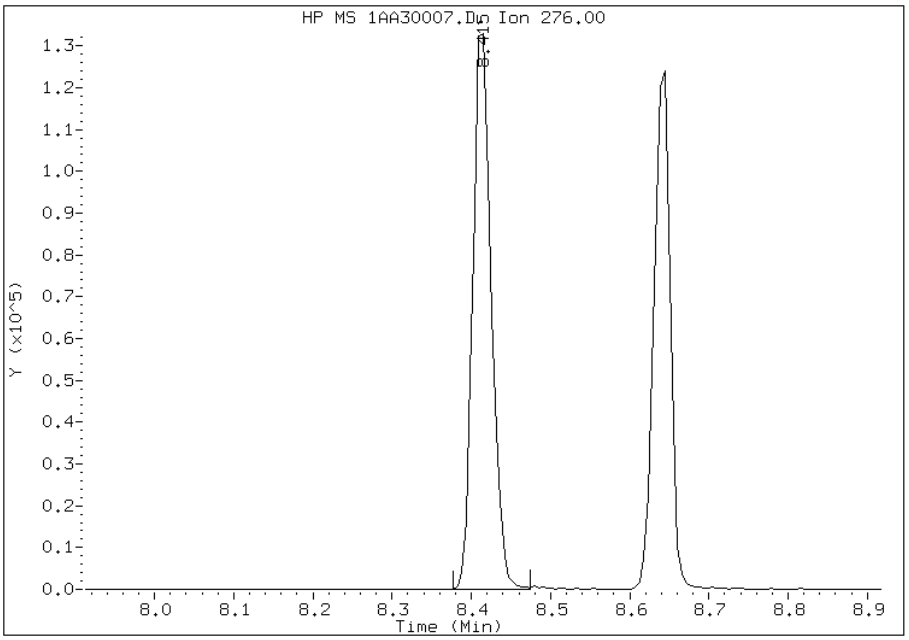
Processing Integration Results

RT: 8.42

Response: 213637

Amount: 11

Conc: 11



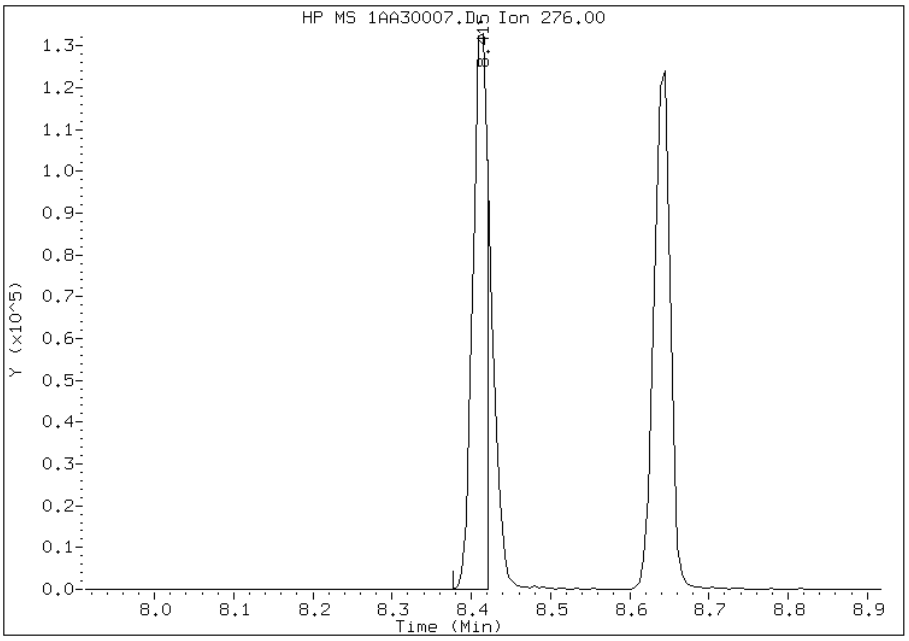
Manual Integration Results

RT: 8.42

Response: 168724

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30008.D
Lab Smp Id: IC-1489899
Inj Date : 30-JAN-2013 13:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:49 Cal File: 1AA30007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.506	2.508	(1.000)	1235536	40.0000	
* 6 Acenaphthene-d10	164	3.537	3.539	(1.000)	692518	40.0000	
* 10 Phenanthrene-d10	188	4.498	4.501	(1.000)	1053254	40.0000	
$ 14 o-Terphenyl	230	4.776	4.779	(1.062)	453816	30.0000	29.6527
* 18 Chrysene-d12	240	6.539	6.536	(1.000)	837416	40.0000	
* 23 Perylene-d12	264	7.634	7.637	(1.000)	816422	40.0000	
2 Naphthalene	128	2.522	2.519	(1.006)	931156	30.0000	31.0495
3 2-Methylnaphthalene	141	2.922	2.925	(1.166)	492071	30.0000	30.6282
4 1-Methylnaphthalene	142	2.981	2.978	(1.190)	530019	30.0000	29.1434
5 Acenaphthylene	152	3.456	3.454	(0.977)	932857	30.0000	30.5072
7 Acenaphthene	154	3.558	3.555	(1.006)	506350	30.0000	30.5946
9 Fluorene	166	3.873	3.871	(1.095)	626008	30.0000	30.0812
11 Phenanthrene	178	4.514	4.517	(1.004)	845549	30.0000	29.4018
12 Anthracene	178	4.546	4.549	(1.011)	861847	30.0000	29.3936
13 Carbazole	167	4.701	4.704	(1.045)	761082	30.0000	30.2815
15 Fluoranthene	202	5.390	5.388	(1.198)	867897	30.0000	30.4395
16 Pyrene	202	5.556	5.559	(0.850)	909822	30.0000	30.0834
17 Benzo(a)anthracene	228	6.528	6.531	(0.998)	765266	30.0000	30.6056
19 Chrysene	228	6.555	6.558	(1.002)	708484	30.0000	29.0695
20 Benzo(b)fluoranthene	252	7.356	7.359	(0.964)	708379	30.0000	31.0876
21 Benzo(k)fluoranthene	252	7.378	7.380	(0.966)	712080	30.0000	29.8890
22 Benzo(a)pyrene	252	7.591	7.594	(0.994)	659672	30.0000	30.4861
24 Indeno(1,2,3-cd)pyrene	276	8.419	8.427	(1.103)	528224	30.0000	30.9150(M)
25 Dibenzo(a,h)anthracene	278	8.435	8.443	(1.105)	512548	30.0000	30.0062
26 Benzo(g,h,i)perylene	276	8.654	8.657	(1.134)	538912	30.0000	30.4446

QC Flag Legend

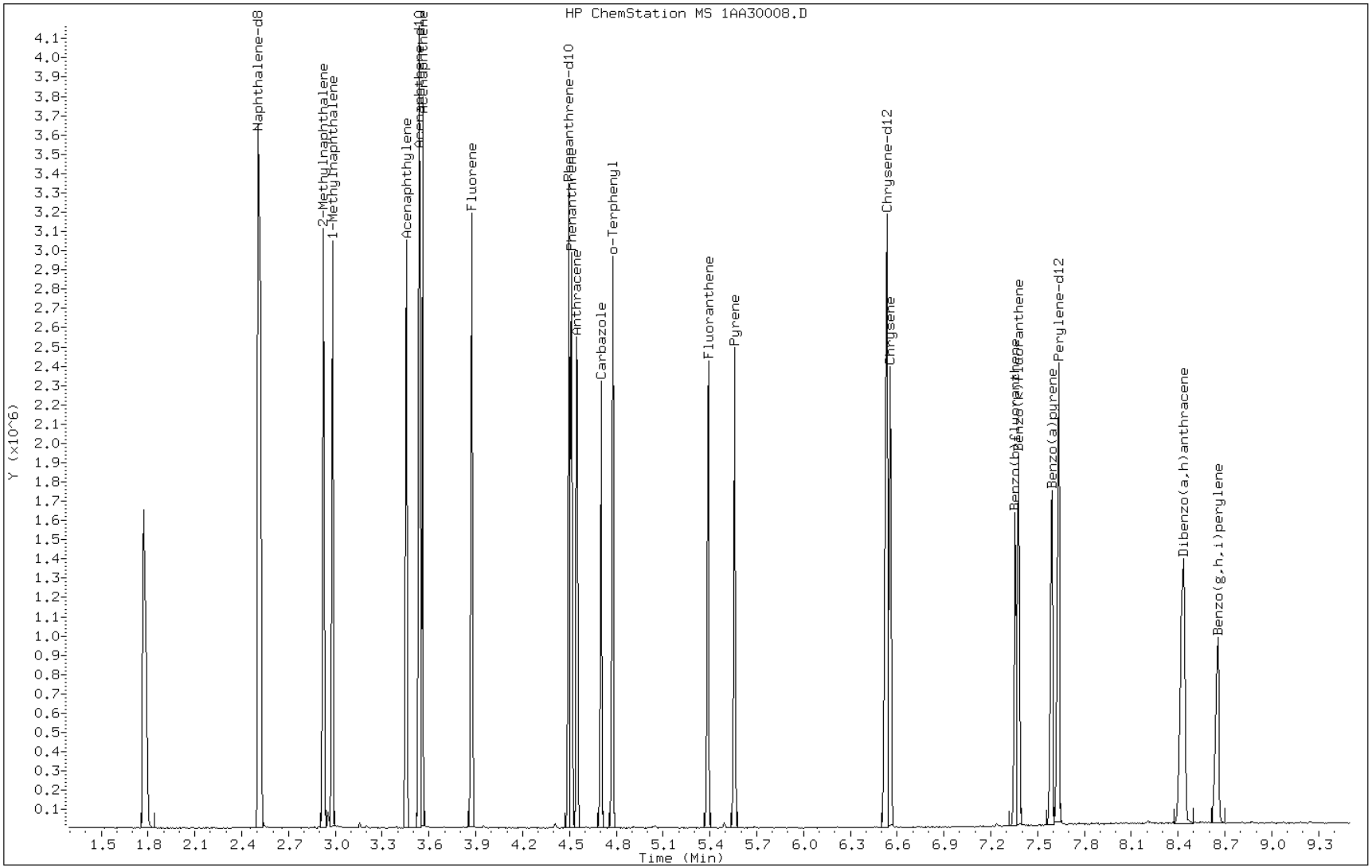
M - Compound response manually integrated.

Data File: 1AA30008.D

Date: 30-JAN-2013 13:04

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489899 Operator: SCC



Manual Integration Report

Data File: 1AA30008.D
Inj. Date and Time: 30-JAN-2013 13:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

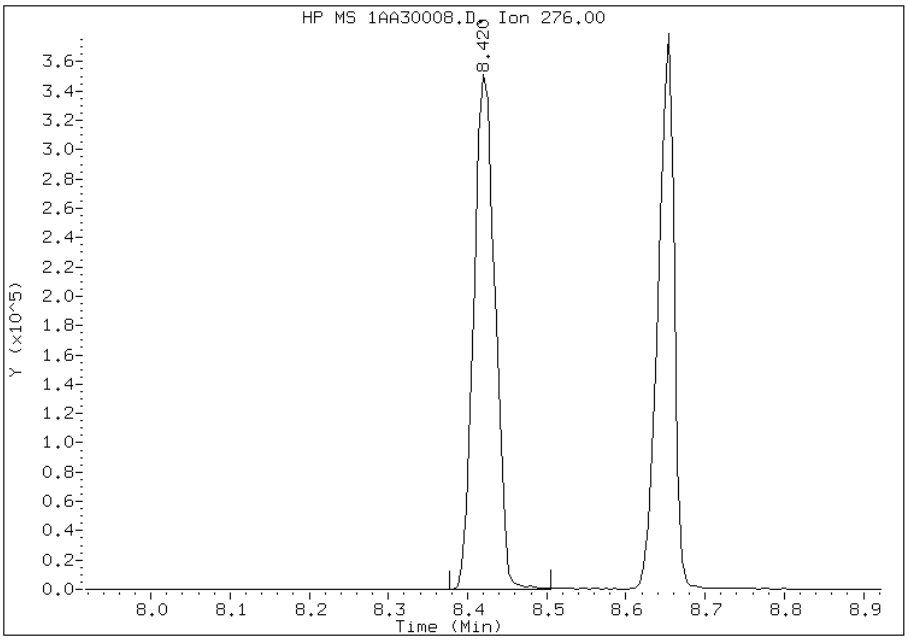
Processing Integration Results

RT: 8.42

Response: 649974

Amount: 32

Conc: 32



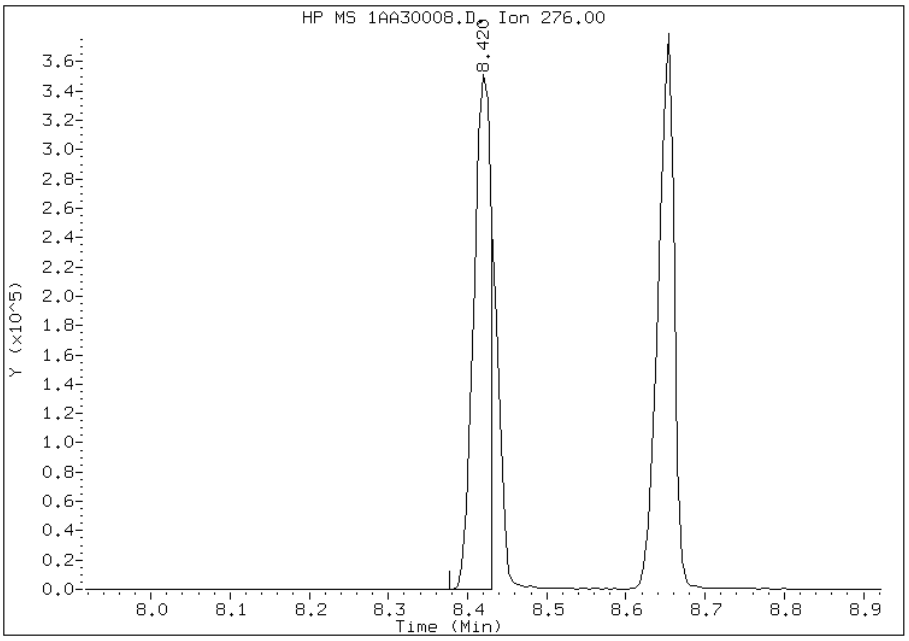
Manual Integration Results

RT: 8.42

Response: 528224

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30009.D
Lab Smp Id: IC-1489900
Inj Date : 30-JAN-2013 13:20
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 13:04 Cal File: 1AA30008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.510	2.508	(1.000)	1125072	40.0000	
* 6 Acenaphthene-d10	164	3.541	3.539	(1.000)	630343	40.0000	
* 10 Phenanthrene-d10	188	4.497	4.501	(1.000)	953549	40.0000	
$ 14 o-Terphenyl	230	4.781	4.779	(1.063)	671289	50.0000	48.4490
* 18 Chrysene-d12	240	6.538	6.536	(1.000)	738179	40.0000	
* 23 Perylene-d12	264	7.633	7.637	(1.000)	739344	40.0000	
2 Naphthalene	128	2.521	2.519	(1.004)	1392262	50.0000	50.9834(A)
3 2-Methylnaphthalene	141	2.927	2.925	(1.166)	735363	50.0000	50.2656(A)
4 1-Methylnaphthalene	142	2.980	2.978	(1.187)	794373	50.0000	47.9677
5 Acenaphthylene	152	3.456	3.454	(0.976)	1380232	50.0000	49.5899
7 Acenaphthene	154	3.557	3.555	(1.005)	738267	50.0000	49.0074
9 Fluorene	166	3.872	3.871	(1.094)	932971	50.0000	49.2537
11 Phenanthrene	178	4.514	4.517	(1.004)	1235274	50.0000	47.4449
12 Anthracene	178	4.551	4.549	(1.012)	1278708	50.0000	48.1709
13 Carbazole	167	4.706	4.704	(1.046)	1111447	50.0000	48.8456
15 Fluoranthene	202	5.390	5.388	(1.198)	1257334	50.0000	48.7092
16 Pyrene	202	5.561	5.559	(0.850)	1318254	50.0000	49.4481
17 Benzo(a)anthracene	228	6.527	6.531	(0.998)	1096876	50.0000	49.7652
19 Chrysene	228	6.560	6.558	(1.003)	1033398	50.0000	48.1011
20 Benzo(b)fluoranthene	252	7.361	7.359	(0.964)	1080002	50.0000	52.3376(A)
21 Benzo(k)fluoranthene	252	7.382	7.380	(0.967)	970372	50.0000	44.9769
22 Benzo(a)pyrene	252	7.591	7.594	(0.994)	978664	50.0000	49.9431
24 Indeno(1,2,3-cd)pyrene	276	8.424	8.427	(1.104)	777793	50.0000	50.2670(AM)
25 Dibenzo(a,h)anthracene	278	8.440	8.443	(1.106)	759088	50.0000	49.0724
26 Benzo(g,h,i)perylene	276	8.664	8.657	(1.135)	805634	50.0000	50.2572(A)

QC Flag Legend

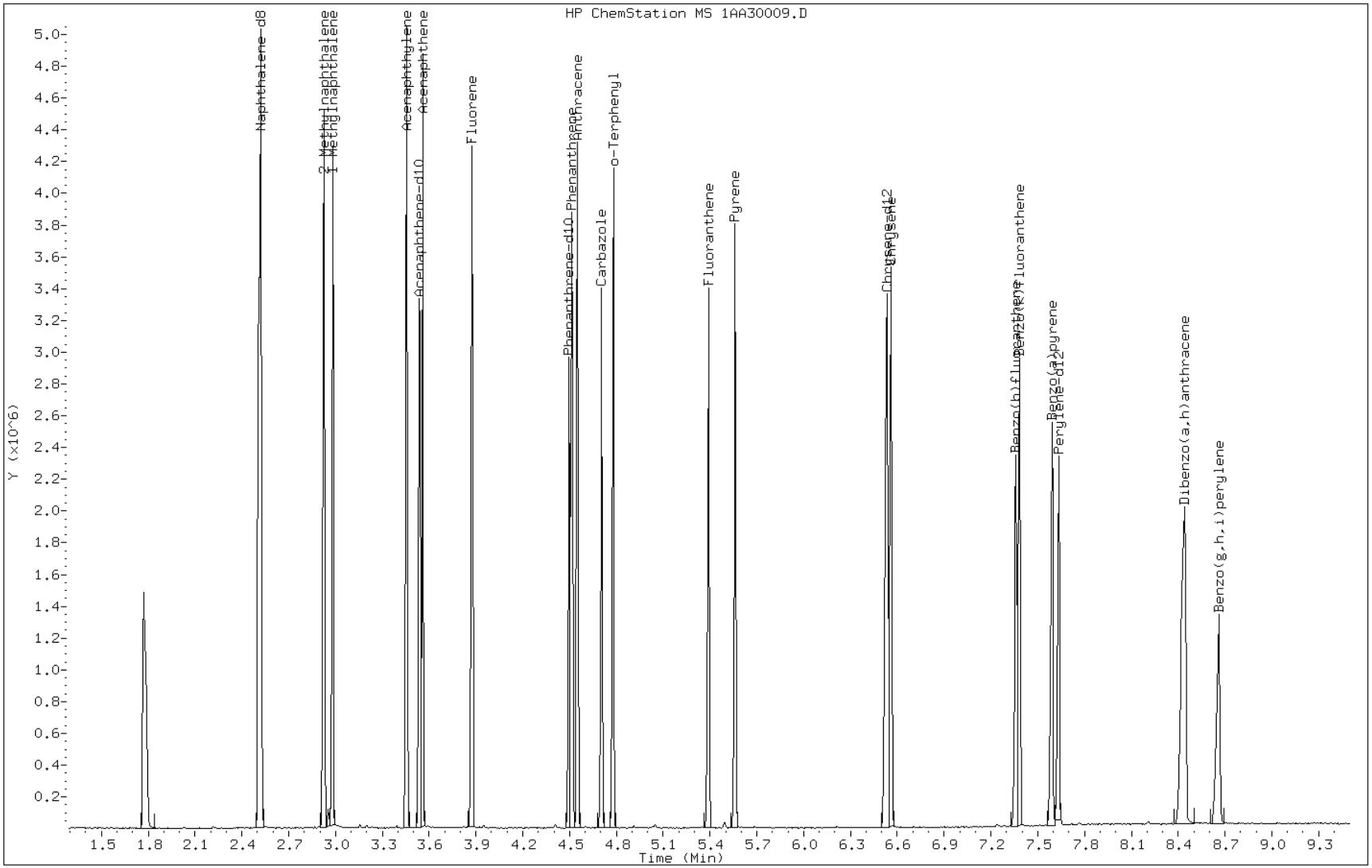
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AA30009.D

Date: 30-JAN-2013 13:20

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1AA30009.D
Inj. Date and Time: 30-JAN-2013 13:20
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

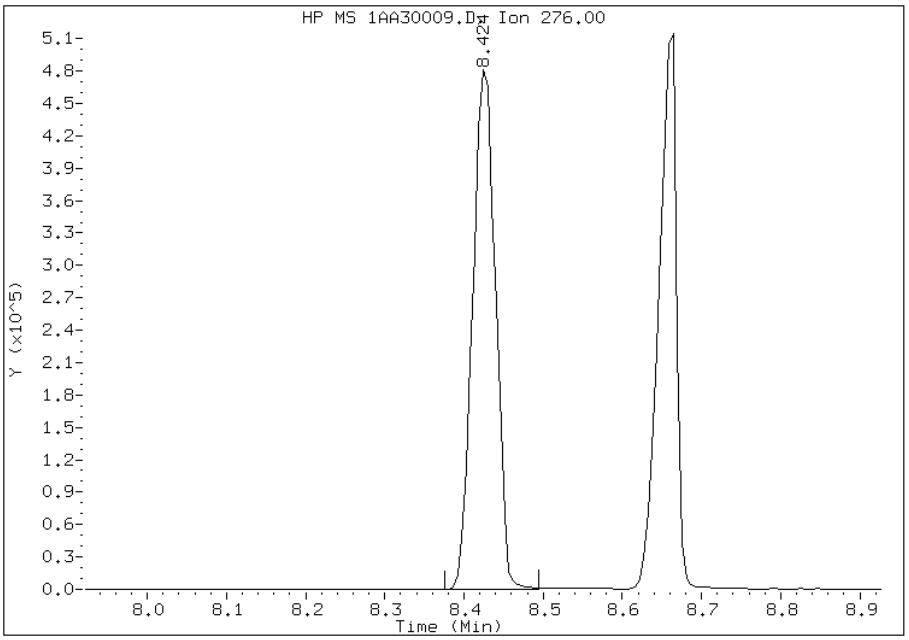
Processing Integration Results

RT: 8.42

Response: 954291

Amount: 60

Conc: 60



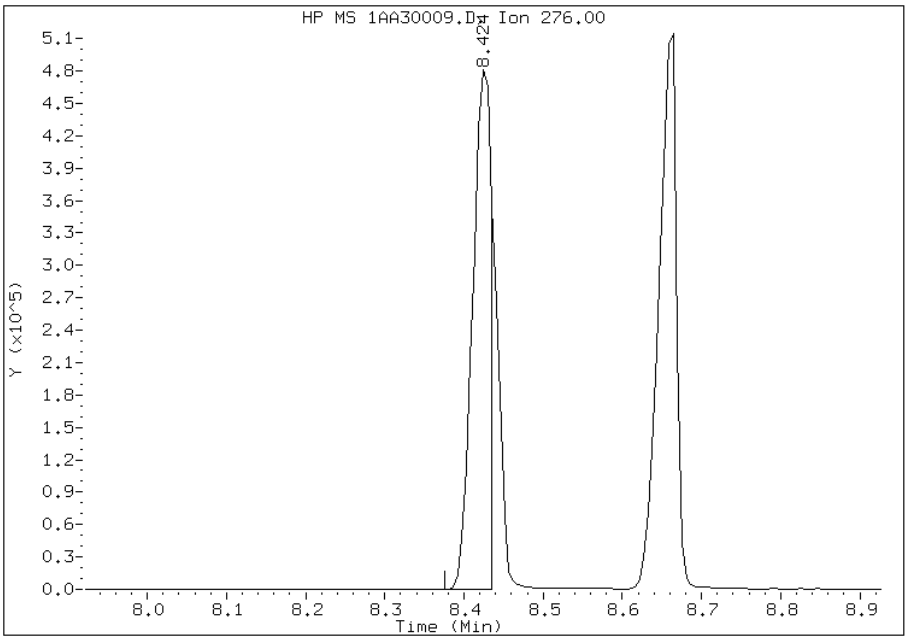
Manual Integration Results

RT: 8.42

Response: 777793

Amount: 50

Conc: 50



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:32
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Lab Sample ID: ICV 660-133924/10 Calibration Date: 01/30/2013 13:35

Instrument ID: BSMA5973 Calib Start Date: 01/30/2013 11:38

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/30/2013 13:20

Lab File ID: 1AA30010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9709	1.081	0.0000	22300	20000	11.3	35.0
2-Methylnaphthalene	Ave	0.5201	0.6432	0.0000	24700	20000	23.7	35.0
1-Methylnaphthalene	Ave	0.5888	0.6870	0.0000	23300	20000	16.7	35.0
Acenaphthylene	Ave	1.766	1.803	0.0000	20400	20000	2.1	35.0
Acenaphthene	Ave	0.9559	0.9878	0.0000	20700	20000	3.3	35.0
Fluorene	Ave	1.202	1.257	0.0000	20900	20000	4.6	35.0
Phenanthrene	Ave	1.092	1.109	0.0000	20300	20000	1.6	35.0
Anthracene	Ave	1.114	1.151	0.0000	20700	20000	3.4	35.0
Carbazole	Ave	0.9545	1.015	0.0000	21300	20000	6.4	35.0
Fluoranthene	Ave	1.083	1.202	0.0000	22200	20000	11.0	35.0
Pyrene	Ave	1.445	1.459	0.0000	20200	20000	1.0	35.0
Benzo[a]anthracene	LinF	1.313	1.281	0.0000	21500	20000	7.3	35.0
Chrysene	Ave	1.164	1.204	0.0000	20700	20000	3.4	35.0
Benzo[b]fluoranthene	Ave	1.116	1.303	0.0000	23300	20000	16.7	35.0
Benzo[k]fluoranthene	Ave	1.167	1.133	0.0000	19400	20000	-2.9	35.0
Benzo[a]pyrene	Ave	1.060	0.9876	0.0000	18600	20000	-6.8	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.8371	0.9115	0.0000	21800	20000	8.9	35.0
Dibenz(a,h)anthracene	Ave	0.8369	0.9680	0.0000	23100	20000	15.7	35.0
Benzo[g,h,i]perylene	Ave	0.8673	0.9214	0.0000	21200	20000	6.2	35.0
o-Terphenyl	Ave	0.5812	0.6137	0.0000	21100	20000	5.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30010.D
Lab Smp Id: ICV-1448440
Inj Date : 30-JAN-2013 13:35
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:34 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.507	2.509	(1.000)	1317903	40.0000	
* 6 Acenaphthene-d10	164	3.543	3.540	(1.000)	820848	40.0000	
* 10 Phenanthrene-d10	188	4.499	4.501	(1.000)	1272419	40.0000	
$ 14 o-Terphenyl	230	4.777	4.779	(1.062)	390413	21.1160	21.1160
* 18 Chrysene-d12	240	6.540	6.537	(1.000)	1032149	40.0000	
* 23 Perylene-d12	264	7.635	7.637	(1.000)	982321	40.0000	
2 Naphthalene	128	2.517	2.519	(1.004)	712111	22.2614	22.2614
3 2-Methylnaphthalene	141	2.923	2.925	(1.166)	423845	24.7328	24.7328
4 1-Methylnaphthalene	142	2.982	2.979	(1.190)	452724	23.3376	23.3375
5 Acenaphthylene	152	3.457	3.454	(0.976)	739875	20.4134	20.4133
7 Acenaphthene	154	3.559	3.556	(1.005)	405435	20.6673	20.6673
9 Fluorene	166	3.874	3.871	(1.093)	515972	20.9176	20.9175
11 Phenanthrene	178	4.515	4.517	(1.004)	705650	20.3109	20.3108
12 Anthracene	178	4.547	4.549	(1.011)	732417	20.6769	20.6768
13 Carbazole	167	4.702	4.704	(1.045)	645980	21.2750	21.2749(M)
15 Fluoranthene	202	5.391	5.388	(1.198)	764893	22.2062	22.2061
16 Pyrene	202	5.557	5.559	(0.850)	753079	20.2028	20.2027

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.529	6.531	(0.998)	661139	21.4526	21.4526
19 Chrysene	228	6.556	6.558	(1.002)	621167	20.6783	20.6783
20 Benzo(b)fluoranthene	252	7.357	7.359	(0.964)	639815	23.3366	23.3365
21 Benzo(k)fluoranthene	252	7.379	7.381	(0.966)	556542	19.4153	19.4152
22 Benzo(a)pyrene	252	7.587	7.594	(0.994)	485058	18.6307	18.6307
24 Indeno(1,2,3-cd)pyrene	276	8.420	8.428	(1.103)	447706	21.7774	21.7773(M)
25 Dibenzo(a,h)anthracene	278	8.436	8.444	(1.105)	475426	23.1325	23.1324
26 Benzo(g,h,i)perylene	276	8.650	8.657	(1.133)	452542	21.2477	21.2477

QC Flag Legend

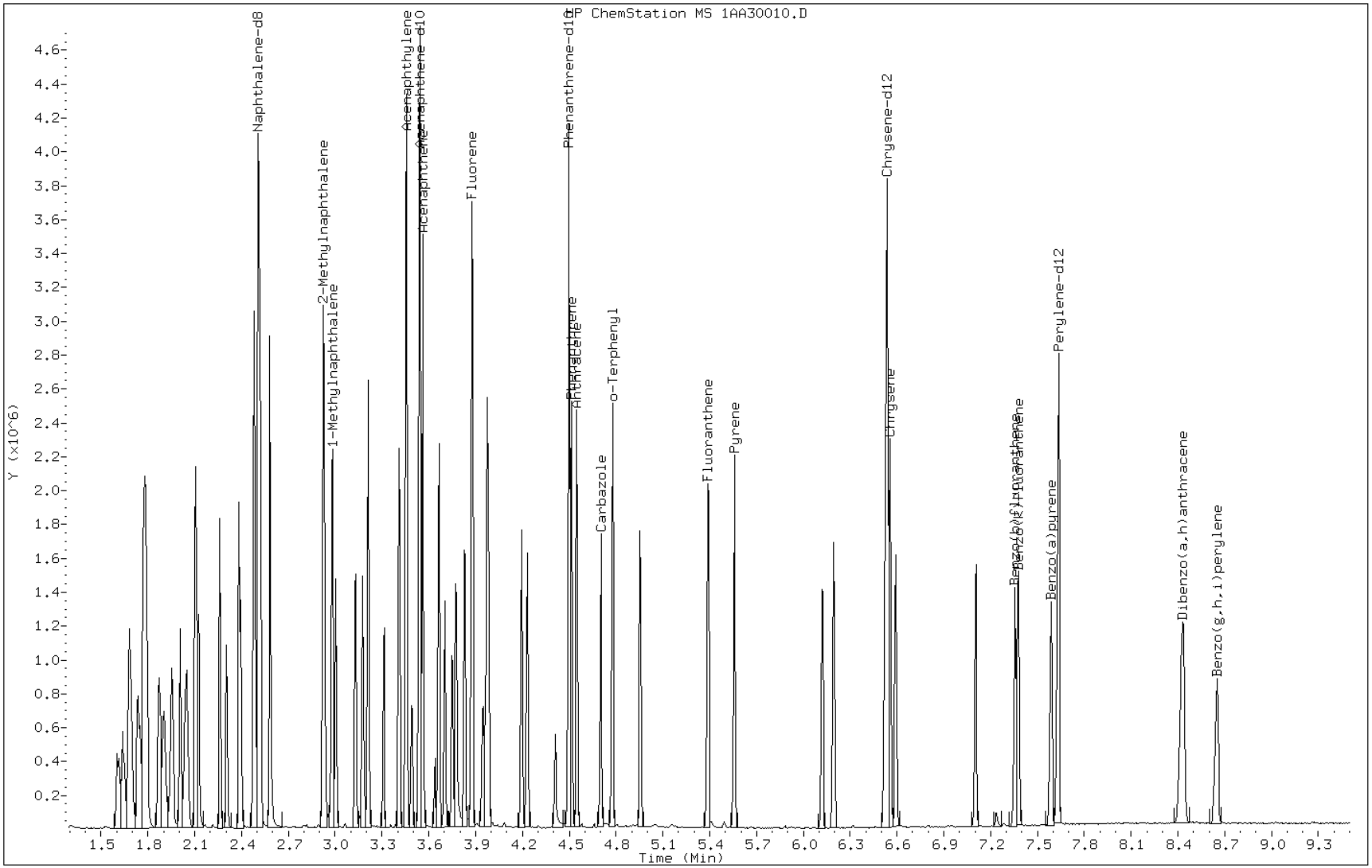
M - Compound response manually integrated.

Data File: 1AA30010.D

Date: 30-JAN-2013 13:35

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1AA30010.D
Inj. Date and Time: 30-JAN-2013 13:35
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 01/30/2013

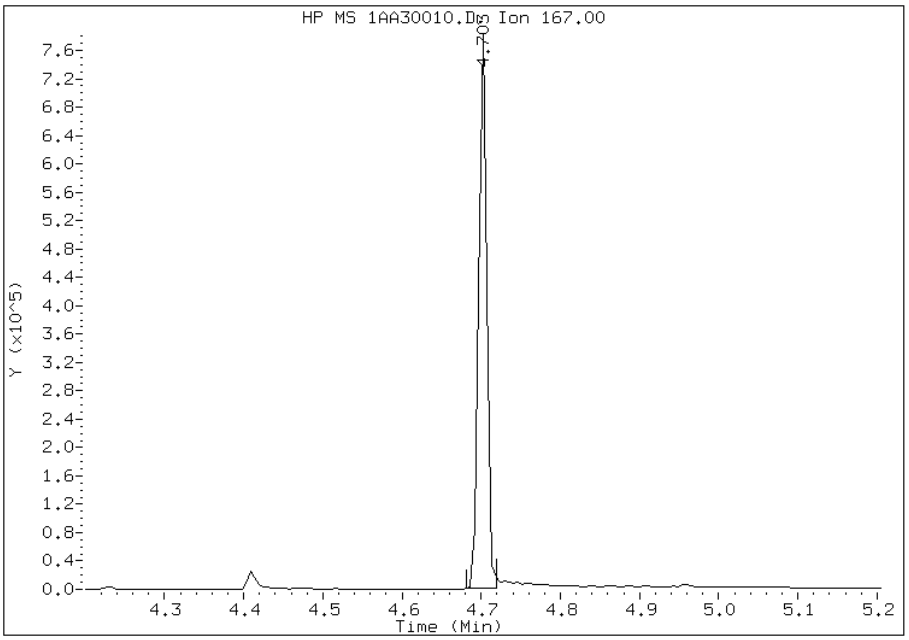
Processing Integration Results

RT: 4.70

Response: 529890

Amount: 17

Conc: 17



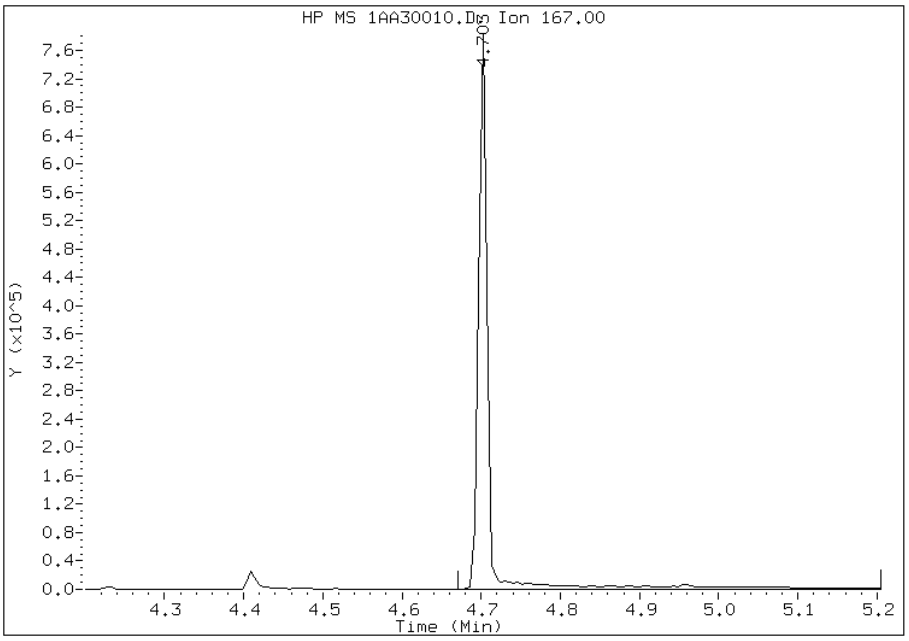
Manual Integration Results

RT: 4.70

Response: 645980

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AA30010.D
Inj. Date and Time: 30-JAN-2013 13:35
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

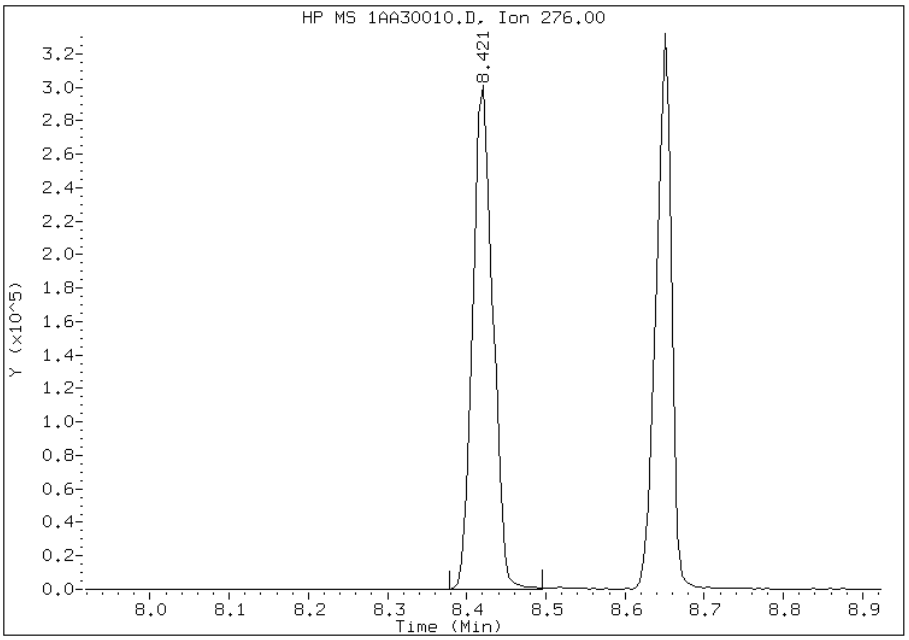
Processing Integration Results

RT: 8.42

Response: 525230

Amount: 26

Conc: 26



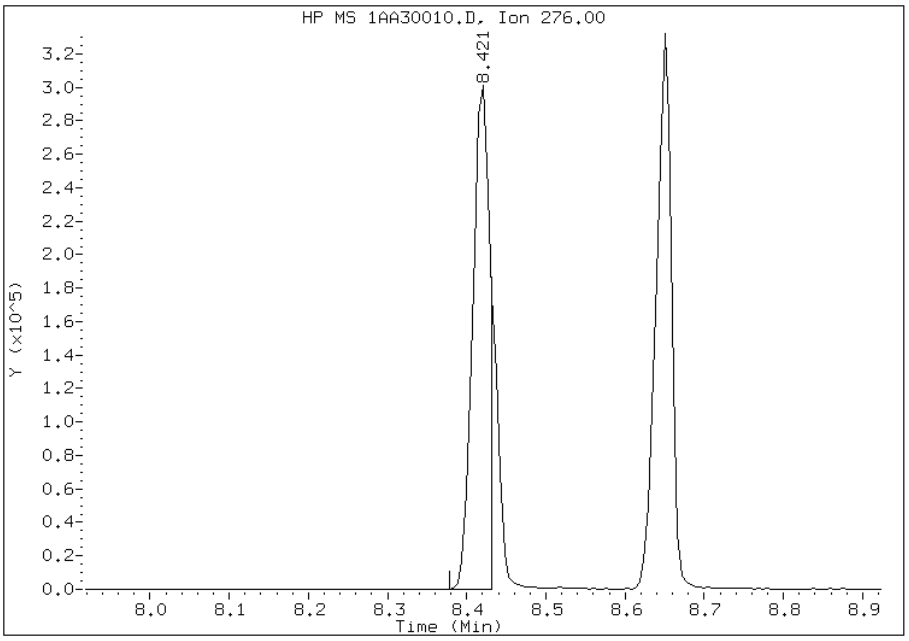
Manual Integration Results

RT: 8.42

Response: 447706

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:47
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Lab Sample ID: CCVIS 660-134523/3 Calibration Date: 02/14/2013 10:21

Instrument ID: BSMA5973 Calib Start Date: 01/30/2013 11:38

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/30/2013 13:20

Lab File ID: 1AB14003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9709	0.9134	0.0000	18800	20000	-5.9	20.0
2-Methylnaphthalene	Ave	0.5201	0.4836	0.0000	18600	20000	-7.0	20.0
1-Methylnaphthalene	Ave	0.5888	0.5346	0.0000	18200	20000	-9.2	20.0
Acenaphthylene	Ave	1.766	1.521	0.0000	17200	20000	-13.9	20.0
Acenaphthene	Ave	0.9559	0.8638	0.0000	18100	20000	-9.6	20.0
Fluorene	Ave	1.202	1.045	0.0000	17400	20000	-13.0	20.0
Phenanthrene	Ave	1.092	0.9849	0.0000	18000	20000	-9.8	20.0
Anthracene	Ave	1.114	0.9914	0.0000	17800	20000	-11.0	20.0
Carbazole	Ave	0.9545	0.8494	0.0000	17800	20000	-11.0	20.0
Fluoranthene	Ave	1.083	0.9879	0.0000	18200	20000	-8.8	20.0
Pyrene	Ave	1.445	1.267	0.0000	17500	20000	-12.3	20.0
Benzo[a]anthracene	LinF	1.313	1.123	0.0000	18800	20000	-6.0	20.0
Chrysene	Ave	1.164	1.025	0.0000	17600	20000	-11.9	20.0
Benzo[b]fluoranthene	Ave	1.116	1.055	0.0000	18900	20000	-5.5	20.0
Benzo[k]fluoranthene	Ave	1.167	1.001	0.0000	17100	20000	-14.3	20.0
Benzo[a]pyrene	Ave	1.060	0.9751	0.0000	18400	20000	-8.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8371	0.8841	0.0000	21100	20000	5.6	20.0
Dibenz(a,h)anthracene	Ave	0.8369	0.8865	0.0000	21200	20000	5.9	20.0
Benzo[g,h,i]perylene	Ave	0.8673	0.9191	0.0000	21200	20000	6.0	20.0
o-Terphenyl	Ave	0.5812	0.5610	0.0000	19300	20000	-3.5	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 14-FEB-2013 10:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.430	2.430	(1.000)	982183	40.0000	(H)
* 6 Acenaphthene-d10	164	3.461	3.461	(1.000)	604288	40.0000	(H)
* 10 Phenanthrene-d10	188	4.402	4.402	(1.000)	878194	40.0000	(H)
$ 14 o-Terphenyl	230	4.685	4.685	(1.064)	246331	20.0000	19.3039(H)
* 18 Chrysene-d12	240	6.426	6.426	(1.000)	720127	40.0000	(H)
* 23 Perylene-d12	264	7.527	7.527	(1.000)	750593	40.0000	(H)
2 Naphthalene	128	2.441	2.441	(1.004)	448540	20.0000	18.8146(H)
3 2-Methylnaphthalene	141	2.847	2.847	(1.171)	237471	20.0000	18.5938(H)
4 1-Methylnaphthalene	142	2.900	2.900	(1.193)	262531	20.0000	18.1590(H)
5 Acenaphthylene	152	3.371	3.371	(0.974)	459562	20.0000	17.2234(H)
7 Acenaphthene	154	3.477	3.477	(1.005)	260986	20.0000	18.0717(H)
9 Fluorene	166	3.787	3.787	(1.094)	315857	20.0000	17.3937(H)
11 Phenanthrene	178	4.418	4.418	(1.004)	432455	20.0000	18.0351(H)
12 Anthracene	178	4.455	4.455	(1.012)	435315	20.0000	17.8061(H)
13 Carbazole	167	4.610	4.610	(1.047)	372983	20.0000	17.7983(H)
15 Fluoranthene	202	5.283	5.283	(1.200)	433782	20.0000	18.2467(H)
16 Pyrene	202	5.454	5.454	(0.849)	456272	20.0000	17.5439(H)
17 Benzo(a)anthracene	228	6.416	6.416	(0.998)	404418	20.0000	18.8083(H)
19 Chrysene	228	6.448	6.448	(1.003)	369150	20.0000	17.6133(H)
20 Benzo(b)fluoranthene	252	7.244	7.244	(0.962)	395954	20.0000	18.9006(H)
21 Benzo(k)fluoranthene	252	7.265	7.265	(0.965)	375629	20.0000	17.1495(H)
22 Benzo(a)pyrene	252	7.479	7.479	(0.994)	365938	20.0000	18.3946(H)
24 Indeno(1,2,3-cd)pyrene	276	8.275	8.275	(1.099)	331783	20.0000	21.1210(MH)
25 Dibenzo(a,h)anthracene	278	8.291	8.291	(1.101)	332710	20.0000	21.1862(H)
26 Benzo(g,h,i)perylene	276	8.494	8.494	(1.128)	344948	20.0000	21.1961(H)

QC Flag Legend

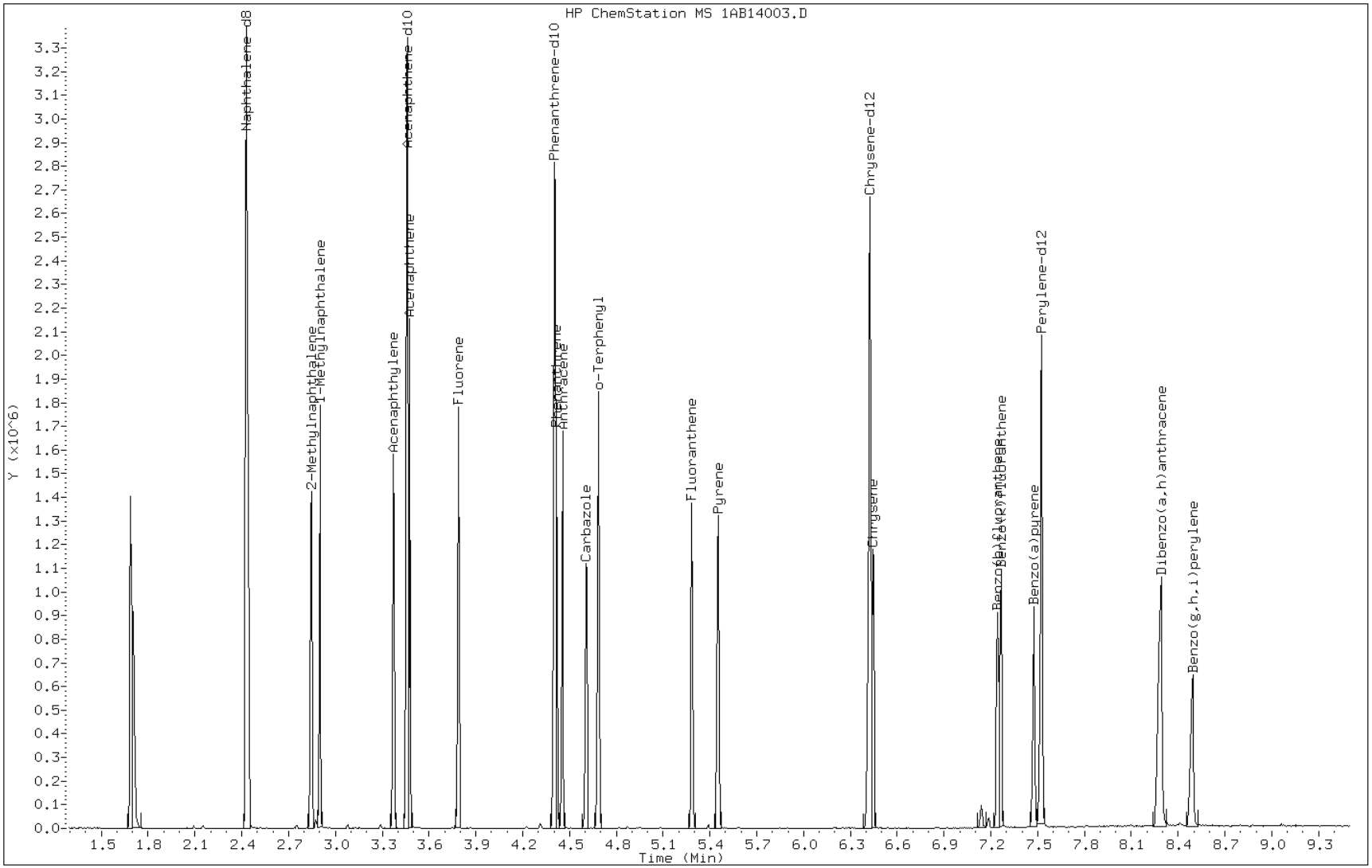
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB14003.D

Date: 14-FEB-2013 10:21

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1AB14003.D
Inj. Date and Time: 14-FEB-2013 10:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

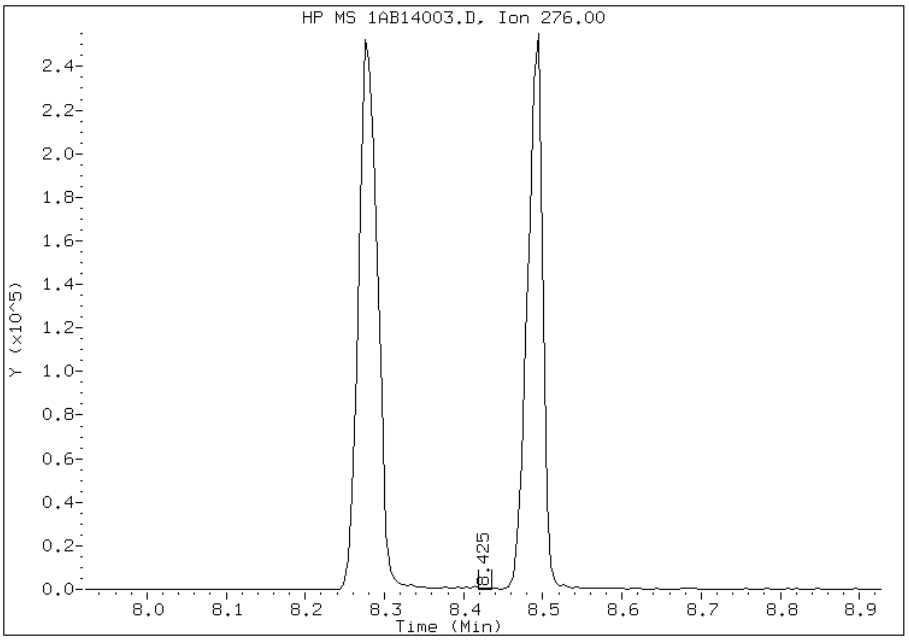
Processing Integration Results

RT: 8.42

Response: 865

Amount: 0

Conc: 0



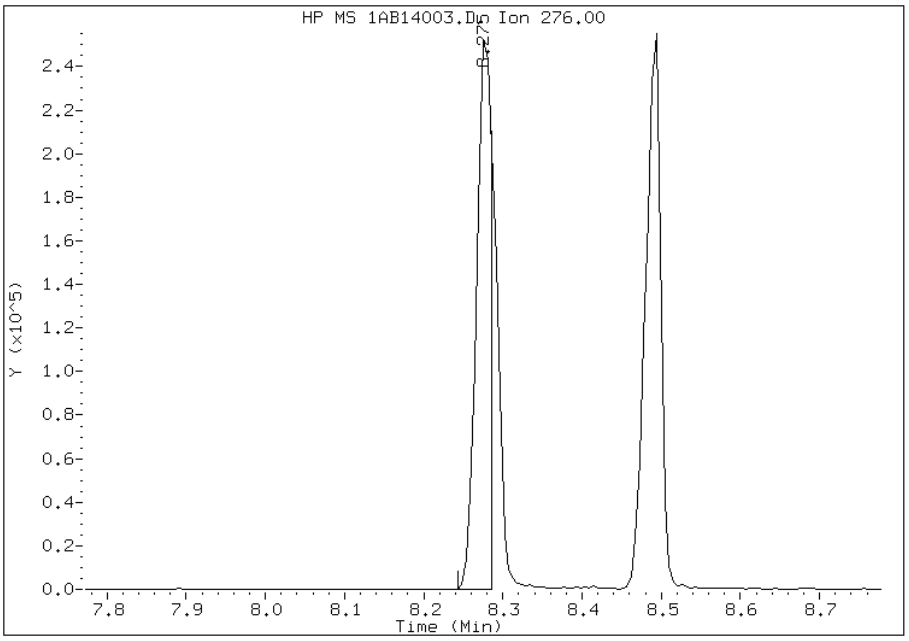
Manual Integration Results

RT: 8.28

Response: 331783

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 10:34
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 30-JAN-2013 11:20
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

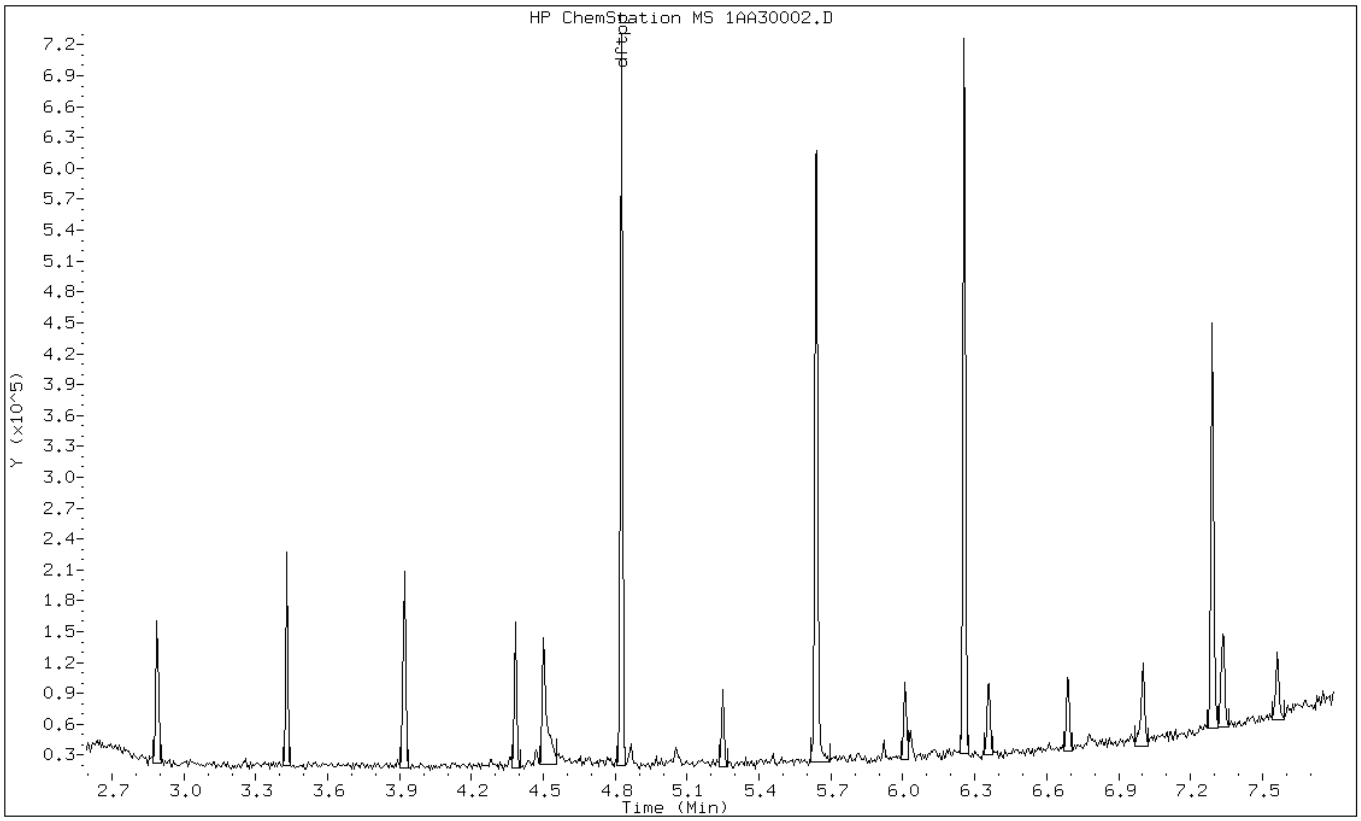
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.827	4.928	-0.101	198	74336			50.00- 0.00	100.00
4.827	4.928	-0.101	51	30248			10.00- 80.00	40.69
4.827	4.928	-0.101	68	0	0.0	0.0	0.00- 2.00	0.00
4.827	4.928	-0.101	69	32488			0.00- 0.00	43.70
4.827	4.928	-0.101	70	551			0.00- 2.00	1.70
4.827	4.928	-0.101	127	32864			10.00- 80.00	44.21
4.827	4.928	-0.101	197	1231			0.00- 2.00	1.66
4.827	4.928	-0.101	442	47368			50.00- 0.00	63.72
4.827	4.928	-0.101	199	4419			5.00- 9.00	5.94
4.827	4.928	-0.101	275	17432			10.00- 60.00	23.45
4.827	4.928	-0.101	365	1423			1.00- 0.00	1.91
4.827	4.928	-0.101	441	6409			0.01- 99.99	63.49
4.827	4.928	-0.101	443	10094			15.00- 24.00	21.31

Data File: 1AA30002.D

Date: 30-JAN-2013 11:20

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



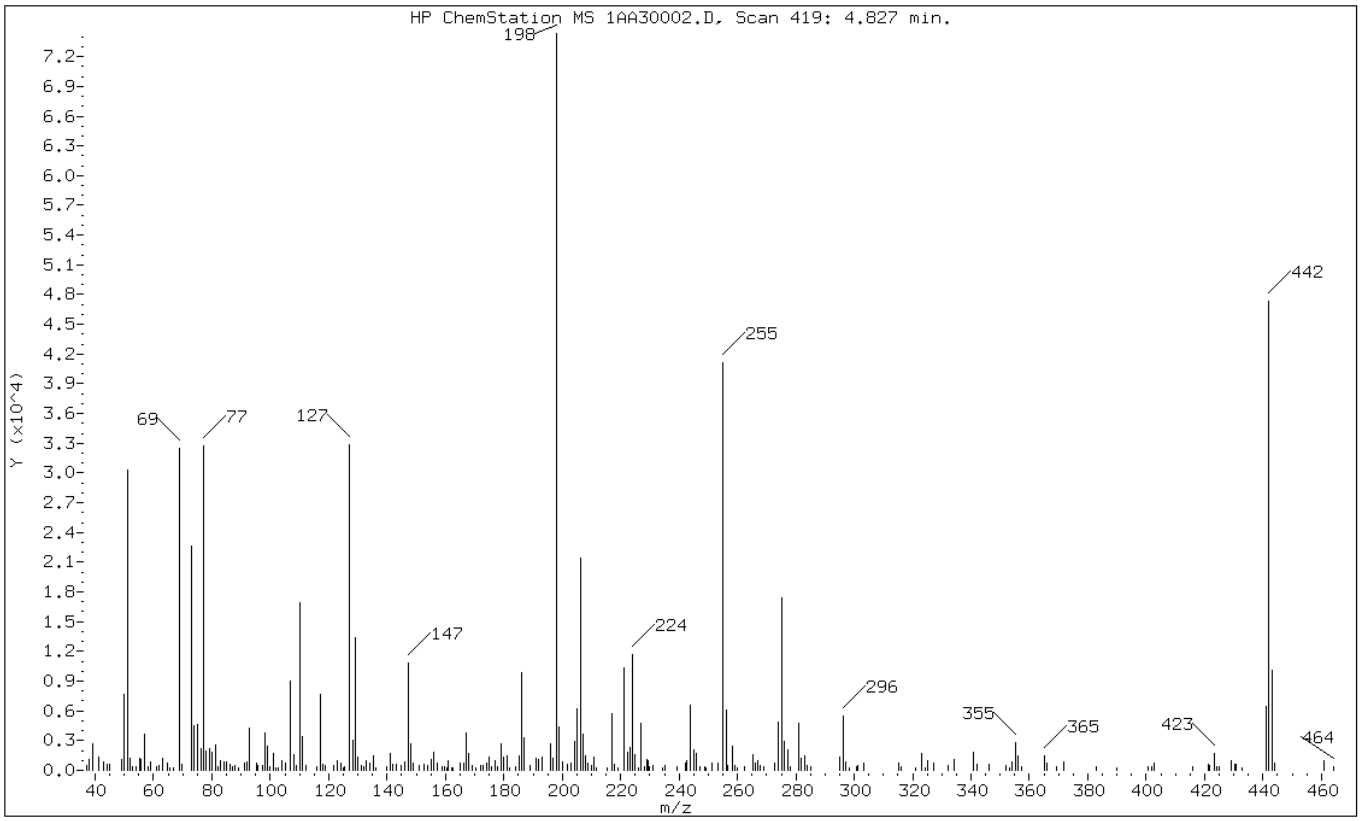
Data File: 1AA30002.D

Date: 30-JAN-2013 11:20

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	40.69
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.70
70	Less than 2.00% of mass 69	0.74 (1.70)
127	10.00 - 80.00% of mass 198	44.21
197	Less than 2.00% of mass 198	1.66
442	Greater than 50.00% of mass 198	63.72
199	5.00 - 9.00% of mass 198	5.94
275	10.00 - 60.00% of mass 198	23.45
365	Greater than 1.00% of mass 198	1.91
441	Present, but less than mass 443	8.62
443	15.00 - 24.00% of mass 442	13.58 (21.31)

Data File: 1AA30002.D

Date: 30-JAN-2013 11:20

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30002.D
Spectrum: HP ChemStation MS 1AA30002.D, Scan 419: 4.827 min.
Location of Maximum: 198.00
Number of points: 248

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	463	115.80	356	192.00	1084	276.10	2879
38.10	1056	117.10	7698	193.10	1299	277.10	2022
39.10	2640	118.00	636	196.00	2623	278.10	421
41.10	1394	119.00	501	196.80	1231	281.10	4793
43.00	902	121.90	513	198.00	74336	281.90	1263
44.00	620	123.00	937	198.90	4419	283.10	1463
45.00	642	124.00	788	200.10	855	284.00	447
48.90	1064	125.10	290	201.60	588	285.20	378
50.00	7633	125.50	311	203.00	744	295.20	1388
51.00	30248	127.00	32864	204.10	2969	296.10	5460
52.00	1249	128.10	3077	205.10	6251	296.90	760
52.90	352	129.00	13426	206.10	21376	297.20	902
53.90	364	130.00	1385	207.10	3697	298.30	304
55.10	1245	131.10	517	208.10	1470	300.90	404
55.80	1133	131.90	345	208.90	742	301.20	468
57.00	3594	133.00	994	209.90	487	303.10	772
58.00	309	134.00	730	211.00	1283	315.20	713
59.10	792	135.20	1418	211.70	255	316.10	325
60.90	420	136.00	288	215.30	270	321.20	282
62.00	469	139.90	376	217.00	5695	323.10	1758
63.00	1184	141.00	1743	217.80	552	324.20	260
64.90	784	142.10	566	218.90	263	325.10	1029
65.70	296	143.10	565	221.10	10393	327.10	752
67.00	252	144.90	525	222.20	1774	332.10	466
69.00	32488	146.20	827	223.20	2301	334.10	1128
69.70	551	147.10	10784	224.10	11718	341.00	1772
73.10	22664	148.00	2728	225.00	1594	342.10	567
74.00	4472	148.90	784	226.10	256	346.20	603
75.00	4596	151.10	492	227.00	4790	351.90	469
76.10	2241	152.80	652	228.30	359	353.00	252
77.10	32760	153.80	496	228.90	1100	354.10	793
78.00	1915	155.00	1059	229.20	1033	355.10	2767
79.00	2162	156.10	1885	230.00	399	355.90	1469
80.00	1874	157.30	786	231.10	431	357.20	404
81.10	2537	158.70	305	234.20	272	365.20	1423
82.00	421	159.80	318	235.00	441	366.00	738
83.10	924	160.30	264	239.10	349	369.10	312
84.00	848	160.90	988	242.20	734	371.90	897
85.00	866	162.10	270	242.80	993	383.00	420
86.00	559	162.40	286	244.00	6598	390.00	264

87.10	384	165.10	785	245.00	2014	400.80	379
88.00	530	166.10	783	246.10	1712	402.00	325
89.00	250	167.00	3795	247.10	374	402.80	702
91.10	782	168.10	1669	248.90	360	416.00	308
92.10	880	169.00	452	249.20	288	421.10	557
93.00	4215	170.30	274	251.10	700	421.90	480
95.20	724	172.00	496	253.20	782	423.20	1724
95.80	434	172.90	511	255.10	41128	424.20	319
97.20	475	174.10	708	256.10	6049	424.90	324
98.00	3751	175.00	1328	256.80	482	429.10	971
99.00	2422	175.90	361	258.10	2470	430.20	549
99.90	308	177.10	917	259.10	440	430.90	557
101.00	1674	178.00	419	260.10	293	433.00	281
101.90	279	179.00	2653	262.30	318	441.00	6409
102.80	255	179.90	1296	265.20	1624	442.00	47368
104.00	952	181.00	1468	266.10	737	443.00	10094
105.00	681	182.10	271	267.00	947	444.00	751
107.00	9036	184.00	349	267.80	439	461.10	933
108.10	1631	185.10	1466	268.90	299	464.20	357
109.00	458	186.10	9887	269.20	385		
110.00	16928	187.00	3312	272.80	771		
111.00	3457	189.10	506	274.10	4829		
112.10	507	191.10	1269	275.10	17432		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 14-FEB-2013 09:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

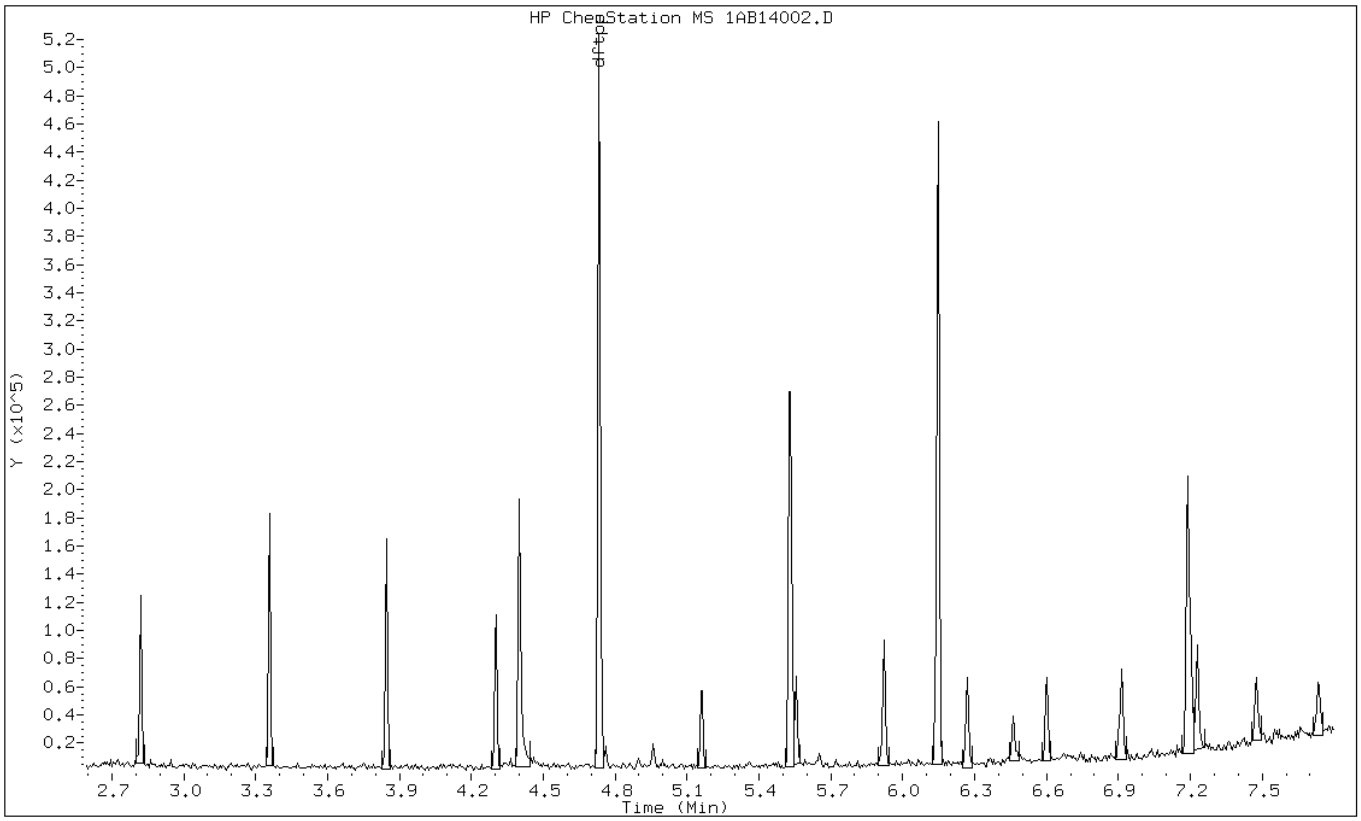
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.732	4.928	-0.196	198	43820			50.00- 0.00	100.00
4.732	4.928	-0.196	51	19243			10.00- 80.00	43.91
4.732	4.928	-0.196	68	0	0.0	0.0	0.00- 2.00	0.00
4.732	4.928	-0.196	69	20302			0.00- 0.00	46.33
4.732	4.928	-0.196	70	0	0.0	0.0	0.00- 2.00	0.00
4.732	4.928	-0.196	127	18860			10.00- 80.00	43.04
4.732	4.928	-0.196	197	0	0.0	0.0	0.00- 2.00	0.00
4.732	4.928	-0.196	442	33872			50.00- 0.00	77.30
4.732	4.928	-0.196	199	3348			5.00- 9.00	7.64
4.732	4.928	-0.196	275	11705			10.00- 60.00	26.71
4.732	4.928	-0.196	365	1521			1.00- 0.00	3.47
4.732	4.928	-0.196	441	5015			0.01- 99.99	78.88
4.732	4.928	-0.196	443	6358			15.00- 24.00	18.77

Data File: 1AB14002.D

Date: 14-FEB-2013 09:58

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



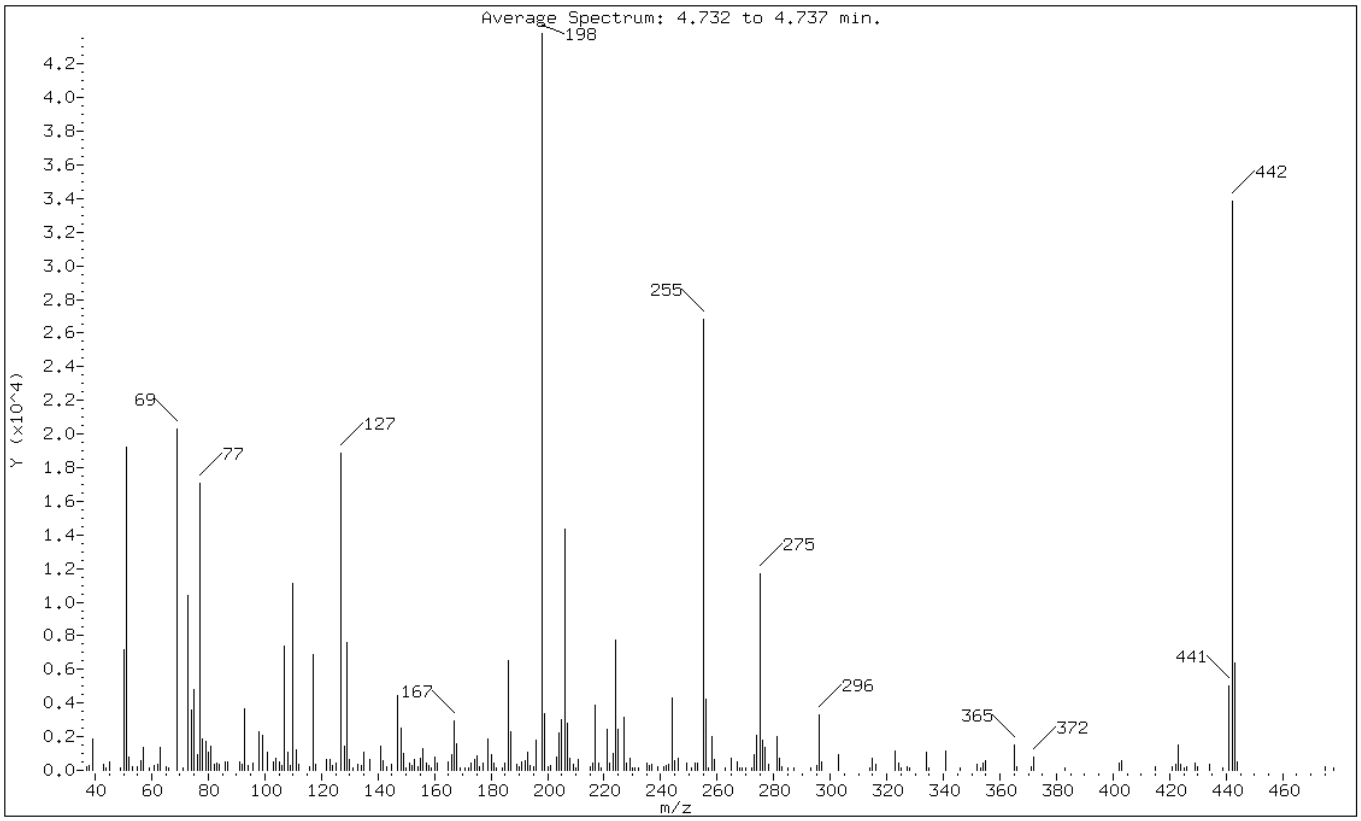
Data File: 1AB14002.D

Date: 14-FEB-2013 09:58

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	43.91
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.33
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	43.04
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	77.30
199	5.00 - 9.00% of mass 198	7.64
275	10.00 - 60.00% of mass 198	26.71
365	Greater than 1.00% of mass 198	3.47
441	Present, but less than mass 443	11.44
443	15.00 - 24.00% of mass 442	14.51 (18.77)

Data File: 1AB14002.D

Date: 14-FEB-2013 09:58

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14002.D
Spectrum: Average Spectrum: 4.732 to 4.737 min.
Location of Maximum: 198.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	211	123.00	637	196.00	1786	275.00	11705
38.00	302	124.00	316	198.00	43816	276.00	1784
39.00	1870	125.00	398	199.00	3348	277.00	1371
43.00	323	127.00	18856	200.00	221	278.00	355
44.00	173	128.00	1454	201.00	257	281.00	1986
45.00	500	129.00	7571	203.00	767	282.00	716
49.00	179	130.00	659	204.00	2249	283.00	183
50.00	7172	131.00	171	205.00	3038	285.00	175
51.00	19240	133.00	368	206.00	14321	287.00	161
52.00	755	134.00	311	207.00	2781	293.00	125
53.00	233	135.00	1106	208.00	725	295.00	291
55.00	208	137.00	627	209.00	364	296.00	3294
56.00	577	141.00	1435	210.00	156	297.00	517
57.00	1328	142.00	538	211.00	648	303.00	910
59.00	162	143.00	193	215.00	183	314.00	165
61.00	274	145.00	377	216.00	434	315.00	699
62.00	381	147.00	4451	217.00	3841	316.00	342
63.00	1391	148.00	2507	218.00	417	323.00	1156
65.00	184	149.00	989	219.00	138	324.00	408
66.00	126	150.00	173	221.00	2423	325.00	154
69.00	20296	151.00	447	222.00	400	327.00	250
71.00	150	152.00	254	223.00	1034	328.00	127
73.00	10378	153.00	661	224.00	7740	334.00	1074
74.00	3620	154.00	184	225.00	2469	335.00	144
75.00	4781	155.00	719	227.00	3122	341.00	1120
76.00	931	156.00	1288	228.00	439	346.00	148
77.00	17072	157.00	464	229.00	734	352.00	325
78.00	1870	158.00	299	230.00	138	353.00	130
79.00	1707	159.00	145	231.00	141	354.00	431
80.00	1102	160.00	784	232.00	140	355.00	572
81.00	1432	161.00	403	235.00	423	365.00	1521
82.00	365	165.00	515	236.00	277	366.00	208
83.00	419	166.00	920	237.00	365	371.00	194
84.00	369	167.00	2933	239.00	200	372.00	758
86.00	483	168.00	1563	241.00	216	383.00	144
87.00	503	169.00	142	242.00	304	402.00	429
91.00	532	171.00	163	243.00	325	403.00	602
92.00	365	172.00	163	244.00	4316	415.00	199
93.00	3631	173.00	426	245.00	603	421.00	181
94.00	278	174.00	626	246.00	740	422.00	347

96.00	456	175.00	852	249.00	398	423.00	1486
98.00	2261	176.00	210	251.00	125	424.00	327
99.00	2072	177.00	428	252.00	410	425.00	130
101.00	1090	179.00	1848	253.00	434	426.00	181
103.00	491	180.00	930	255.00	26840	429.00	399
104.00	752	181.00	461	256.00	4253	430.00	228
105.00	479	182.00	155	257.00	131	434.00	330
106.00	285	184.00	175	258.00	2017	439.00	151
107.00	7359	185.00	428	259.00	659	441.00	5015
108.00	1051	186.00	6536	263.00	145	442.00	33872
109.00	257	187.00	2273	265.00	700	443.00	6358
110.00	11136	189.00	377	267.00	486	444.00	476
111.00	1242	190.00	180	268.00	160	475.00	198
112.00	334	191.00	474	269.00	155	478.00	144
116.00	220	192.00	570	270.00	128		
117.00	6853	193.00	1058	272.00	148		
118.00	394	194.00	301	273.00	940		
122.00	657	195.00	218	274.00	2103		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: | Lab Sample ID: MB 660-134426/1-A

Matrix: Solid | Lab File ID: 1AB14005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.03(g) | Date Analyzed: 02/14/2013 10:51

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.: 134523 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14005.D
Lab Smp Id: mb 660-134426/1-a
Inj Date : 14-FEB-2013 10:51
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-134426/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	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

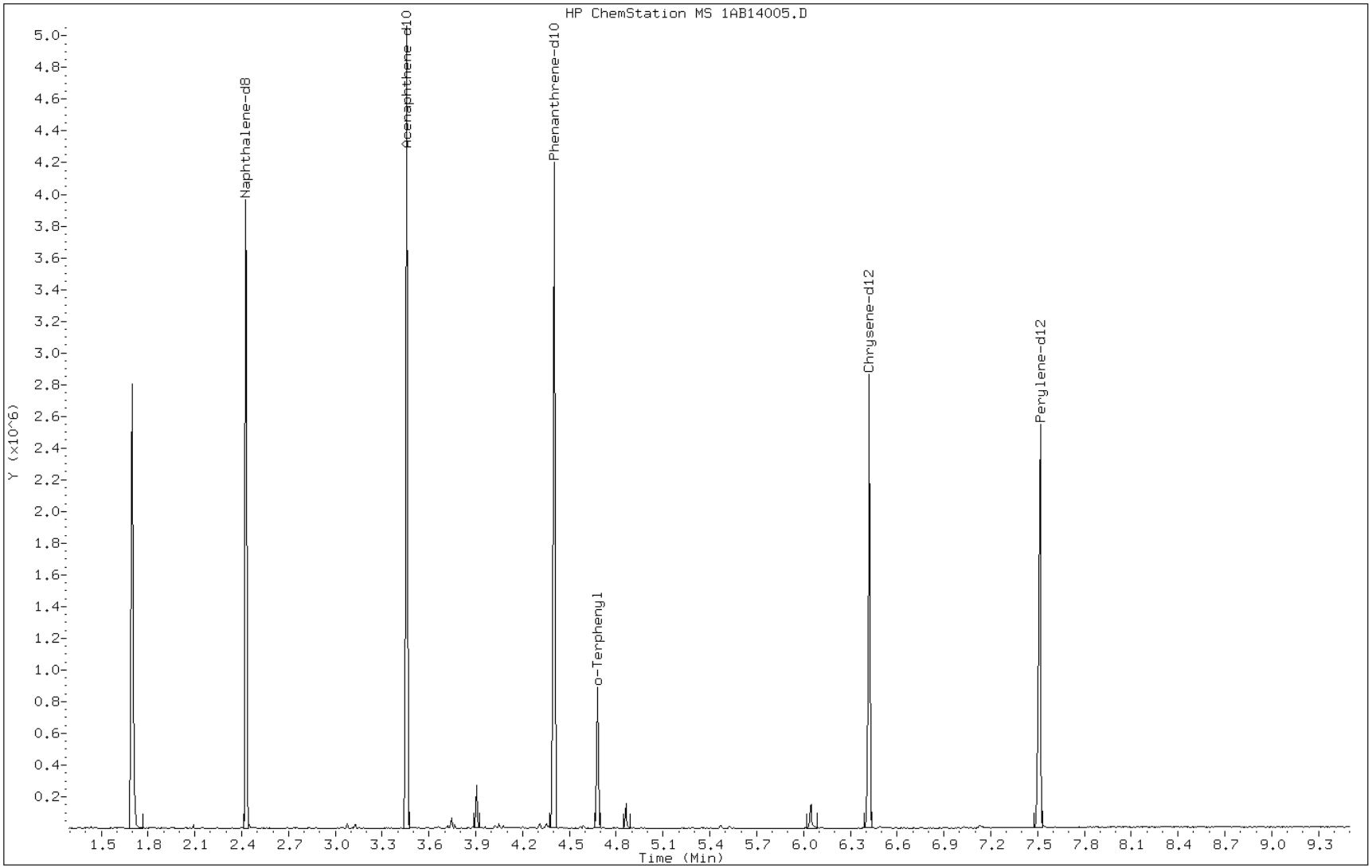
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.426	2.430	(1.000)	1212314	40.0000	
* 6 Acenaphthene-d10	164	3.457	3.461	(1.000)	752354	40.0000	
* 10 Phenanthrene-d10	188	4.402	4.402	(1.000)	1123108	40.0000	
$ 14 o-Terphenyl	230	4.680	4.685	(1.063)	120792	7.40176	492.4658
* 18 Chrysene-d12	240	6.421	6.426	(1.000)	893196	40.0000	
* 23 Perylene-d12	264	7.517	7.527	(1.000)	908572	40.0000	

Data File: 1AB14005.D

Date: 14-FEB-2013 10:51

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-134426/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87218-2
SDG No.: 68087218-2
Client Sample ID:
Lab Sample ID: LCS 660-134426/2-A
Matrix: Solid
Lab File ID: 1AB14006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/13/2013 10:32
Sample wt/vol: 15.13(g)
Date Analyzed: 02/14/2013 11:07
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134523
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	327		99	20
208-96-8	Acenaphthylene	328		40	5.0
120-12-7	Anthracene	367		8.3	4.2
56-55-3	Benzo[a]anthracene	411		7.9	3.9
50-32-8	Benzo[a]pyrene	346		10	5.2
205-99-2	Benzo[b]fluoranthene	351		12	6.0
191-24-2	Benzo[g,h,i]perylene	446		20	4.4
207-08-9	Benzo[k]fluoranthene	399		7.9	3.6
218-01-9	Chrysene	393		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	422		20	4.1
206-44-0	Fluoranthene	373		20	4.0
86-73-7	Fluorene	352		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	449		20	7.0
90-12-0	1-Methylnaphthalene	382		40	4.4
91-57-6	2-Methylnaphthalene	415		40	7.0
91-20-3	Naphthalene	352		40	4.4
85-01-8	Phenanthrene	360		7.9	3.9
129-00-0	Pyrene	365		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14006.D
Lab Smp Id: lcs 660-134426/2-a
Inj Date : 14-FEB-2013 11:07
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-134426/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	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	2.429	2.430	(1.000)	1140928	40.0000	
* 6 Acenaphthene-d10	164	3.460	3.461	(1.000)	757377	40.0000	
* 10 Phenanthrene-d10	188	4.406	4.402	(1.000)	1123456	40.0000	
$ 14 o-Terphenyl	230	4.678	4.685	(1.062)	101499	6.21762	410.9464
* 18 Chrysene-d12	240	6.425	6.426	(1.000)	845768	40.0000	
* 23 Perylene-d12	264	7.515	7.527	(1.000)	899339	40.0000	
2 Naphthalene	128	2.440	2.441	(1.004)	147362	5.32127	351.7035
3 2-Methylnaphthalene	141	2.840	2.847	(1.169)	93177	6.28059	415.1085
4 1-Methylnaphthalene	142	2.899	2.900	(1.193)	97179	5.78655	382.4554
5 Acenaphthylene	152	3.369	3.371	(0.974)	166087	4.96641	328.2489
7 Acenaphthene	154	3.476	3.477	(1.005)	89419	4.94019	326.5161
9 Fluorene	166	3.786	3.787	(1.094)	121133	5.32228	351.7702
11 Phenanthrene	178	4.416	4.418	(1.002)	167041	5.44548	359.9130
12 Anthracene	178	4.448	4.455	(1.010)	173580	5.55010	366.8272

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.603	4.610	(1.045)	146988	5.48285	362.3824
15 Fluoranthene	202	5.282	5.283	(1.199)	171552	5.64083	372.8244
16 Pyrene	202	5.447	5.454	(0.848)	168593	5.51952	364.8060
17 Benzo(a)anthracene	228	6.414	6.416	(0.998)	157153	6.22302	411.3035
19 Chrysene	228	6.441	6.448	(1.002)	146468	5.95033	393.2799
20 Benzo(b)fluoranthene	252	7.237	7.244	(0.963)	133124	5.30358	350.5343
21 Benzo(k)fluoranthene	252	7.253	7.265	(0.965)	158526	6.04054	399.2425
22 Benzo(a)pyrene	252	7.467	7.479	(0.994)	124795	5.23556	346.0381
24 Indeno(1,2,3-cd)pyrene	276	8.252	8.275	(1.098)	127909	6.79585	449.1639(M)
25 Dibenzo(a,h)anthracene	278	8.268	8.291	(1.100)	120237	6.39009	422.3456
26 Benzo(g,h,i)perylene	276	8.466	8.494	(1.127)	131481	6.74290	445.6645

QC Flag Legend

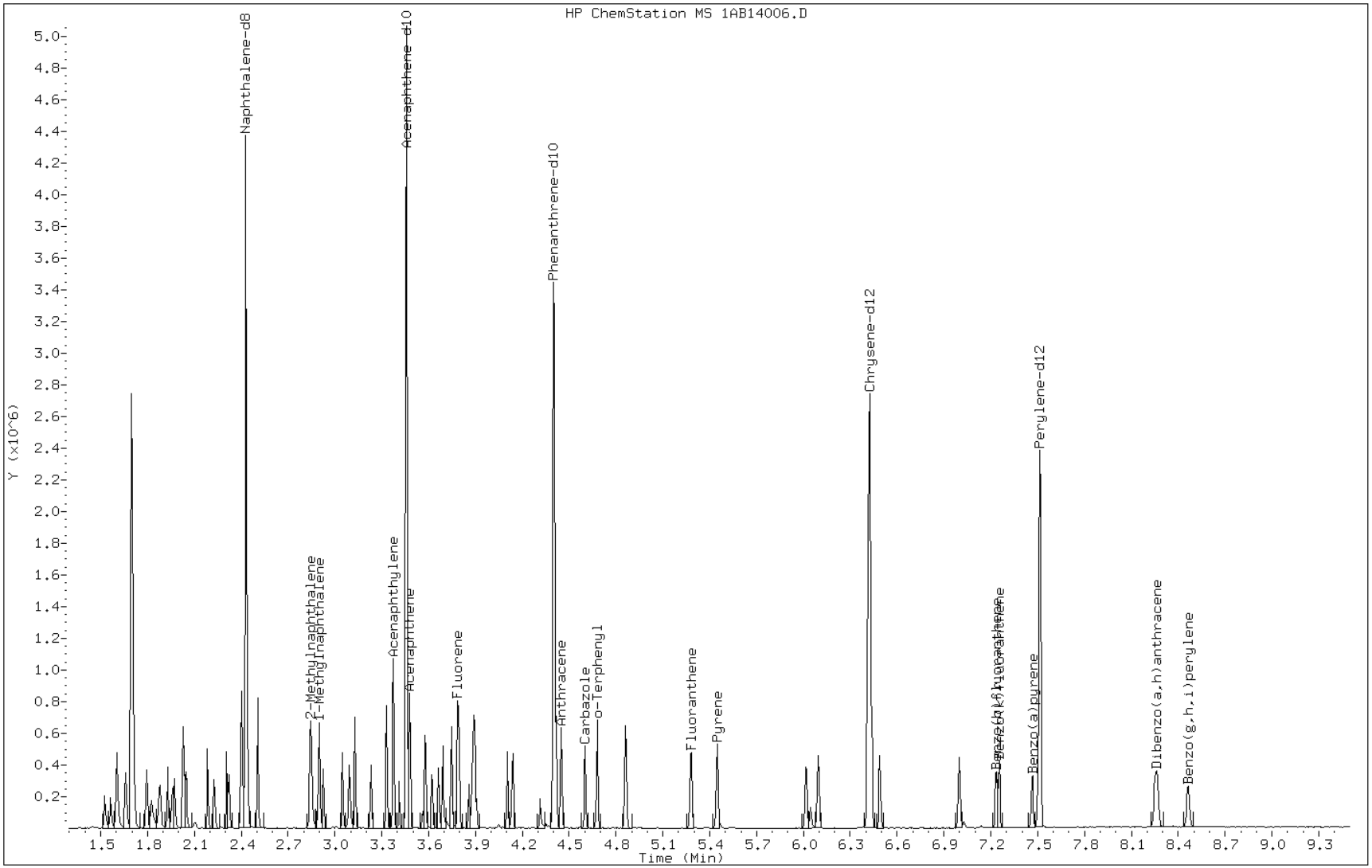
M - Compound response manually integrated.

Data File: 1AB14006.D

Date: 14-FEB-2013 11:07

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-134426/2-a Operator: SCC



Manual Integration Report

Data File: 1AB14006.D
Inj. Date and Time: 14-FEB-2013 11:07
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

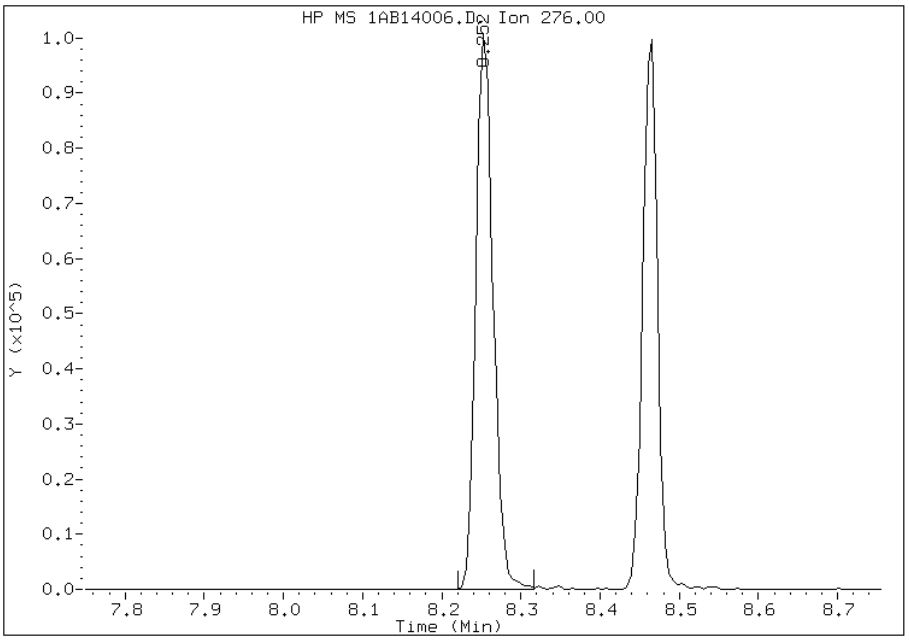
Processing Integration Results

RT: 8.25

Response: 150903

Amount: 8

Conc: 530



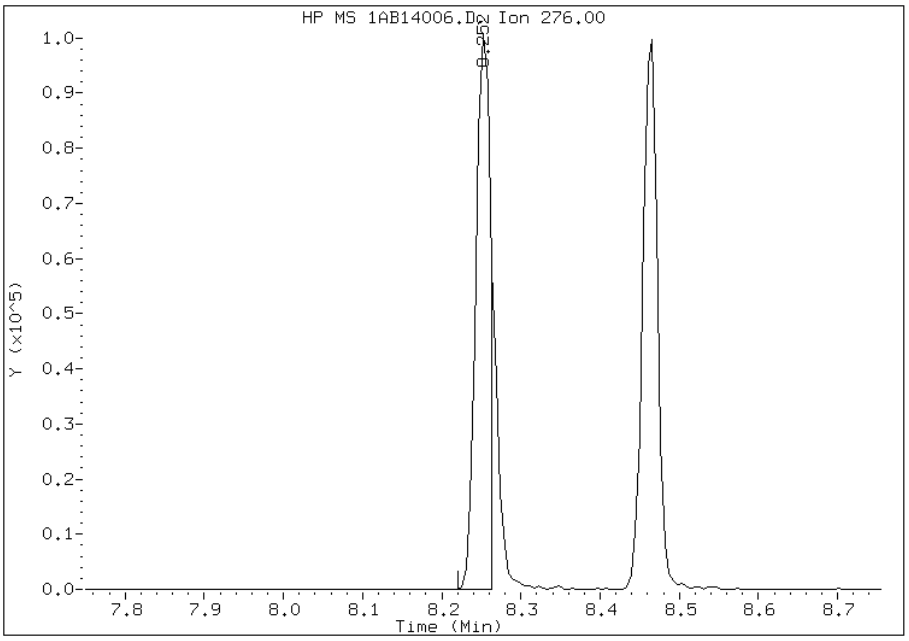
Manual Integration Results

RT: 8.25

Response: 127909

Amount: 7

Conc: 449



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748J-CS MS | Lab Sample ID: 680-87218-22 MS

Matrix: Solid | Lab File ID: 1AB14009.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:18

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.05(g) | Date Analyzed: 02/14/2013 11:52

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

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

% Moisture: 16.7 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	505		120	24
208-96-8	Acenaphthylene	501		48	6.0
120-12-7	Anthracene	531		10	5.0
56-55-3	Benzo[a]anthracene	648		9.6	4.7
50-32-8	Benzo[a]pyrene	477		12	6.2
205-99-2	Benzo[b]fluoranthene	508		15	7.3
191-24-2	Benzo[g,h,i]perylene	590		24	5.3
207-08-9	Benzo[k]fluoranthene	548		9.6	4.3
218-01-9	Chrysene	545		11	5.4
53-70-3	Dibenz(a,h)anthracene	545		24	4.9
206-44-0	Fluoranthene	609		24	4.8
86-73-7	Fluorene	534		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	535		24	8.5
90-12-0	1-Methylnaphthalene	557		48	5.3
91-57-6	2-Methylnaphthalene	607		48	8.5
91-20-3	Naphthalene	523		48	5.3
85-01-8	Phenanthrene	571		9.6	4.7
129-00-0	Pyrene	691		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14009.D
Lab Smp Id: 680-87218-a-22-b ms
Inj Date : 14-FEB-2013 11:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-22-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 9 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	15.050	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/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.431	2.430	(1.000)	966187	40.0000	
* 6 Acenaphthene-d10	164	3.457	3.461	(1.000)	598683	40.0000	
* 10 Phenanthrene-d10	188	4.403	4.402	(1.000)	849793	40.0000	
$ 14 o-Terphenyl	230	4.680	4.685	(1.063)	87507	7.08677	470.8814
* 18 Chrysene-d12	240	6.422	6.426	(1.000)	528526	40.0000	
* 23 Perylene-d12	264	7.517	7.527	(1.000)	510283	40.0000	
2 Naphthalene	128	2.442	2.441	(1.004)	153825	6.55925	435.8305
3 2-Methylnaphthalene	141	2.843	2.847	(1.169)	95660	7.61411	505.9210
4 1-Methylnaphthalene	142	2.901	2.900	(1.193)	99291	6.98159	463.8929
5 Acenaphthylene	152	3.372	3.371	(0.975)	165949	6.27764	417.1190
7 Acenaphthene	154	3.478	3.477	(1.006)	90642	6.33517	420.9417
9 Fluorene	166	3.788	3.787	(1.096)	120422	6.69355	444.7542
11 Phenanthrene	178	4.419	4.418	(1.004)	166179	7.16197	475.8783
12 Anthracene	178	4.451	4.455	(1.011)	157620	6.66277	442.7091

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.606	4.610	(1.046)	128382	6.33098	420.6634
15 Fluoranthene	202	5.279	5.283	(1.199)	175780	7.64117	507.7190
16 Pyrene	202	5.450	5.454	(0.849)	165423	8.66647	575.8451
17 Benzo(a)anthracene	228	6.417	6.416	(0.999)	128218	8.12480	539.8537
19 Chrysene	228	6.438	6.448	(1.002)	105116	6.83363	454.0620
20 Benzo(b)fluoranthene	252	7.239	7.244	(0.963)	90669	6.36626	423.0071
21 Benzo(k)fluoranthene	252	7.255	7.265	(0.965)	102320	6.87145	456.5744
22 Benzo(a)pyrene	252	7.469	7.479	(0.994)	80915	5.98284	397.5306
24 Indeno(1,2,3-cd)pyrene	276	8.260	8.275	(1.099)	71666	6.71071	445.8940(M)
25 Dibenzo(a,h)anthracene	278	8.270	8.291	(1.100)	72922	6.83030	453.8404
26 Benzo(g,h,i)perylene	276	8.473	8.494	(1.127)	81778	7.39150	491.1298

QC Flag Legend

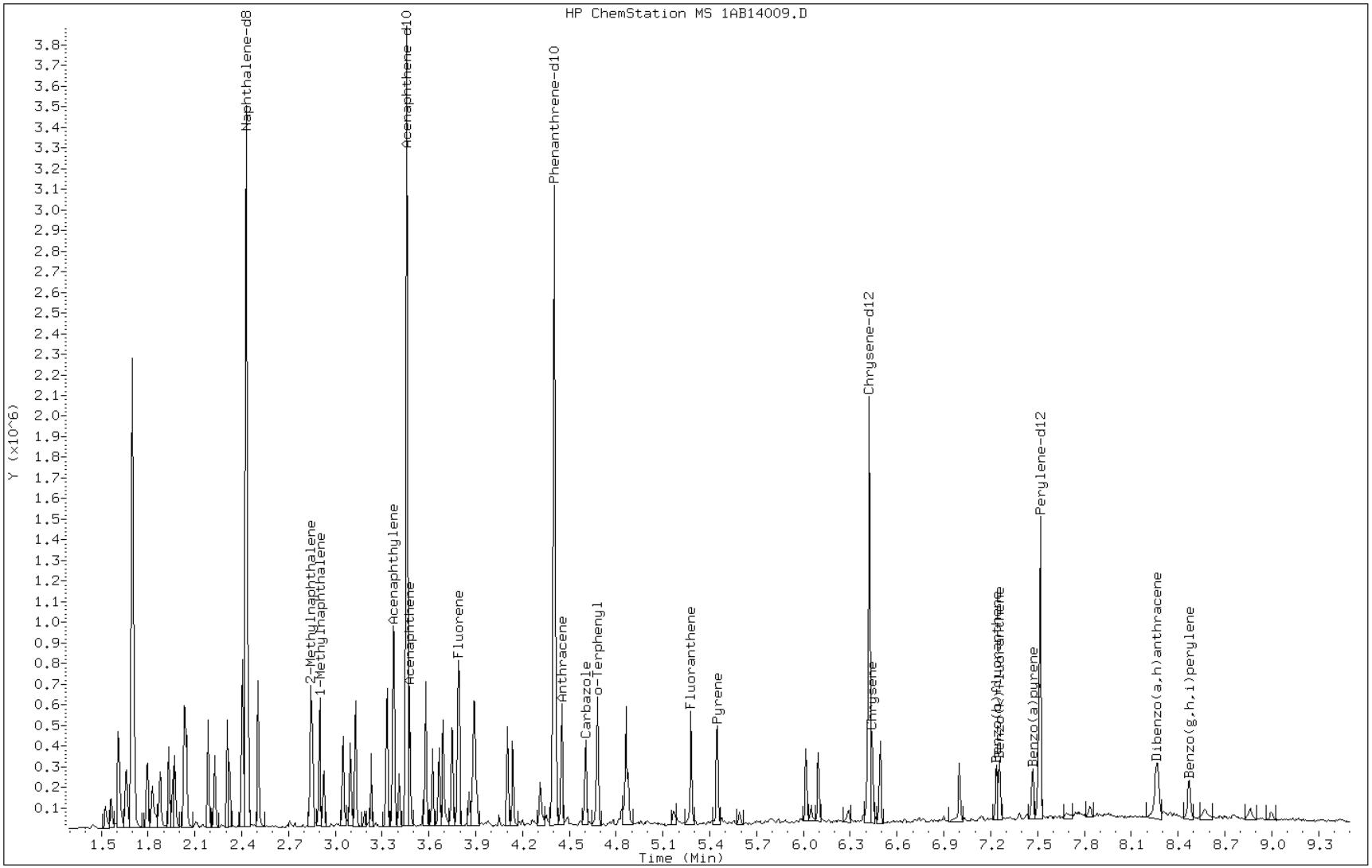
M - Compound response manually integrated.

Data File: 1AB14009.D

Date: 14-FEB-2013 11:52

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-b ms Operator: SCC



Manual Integration Report

Data File: 1AB14009.D
Inj. Date and Time: 14-FEB-2013 11:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

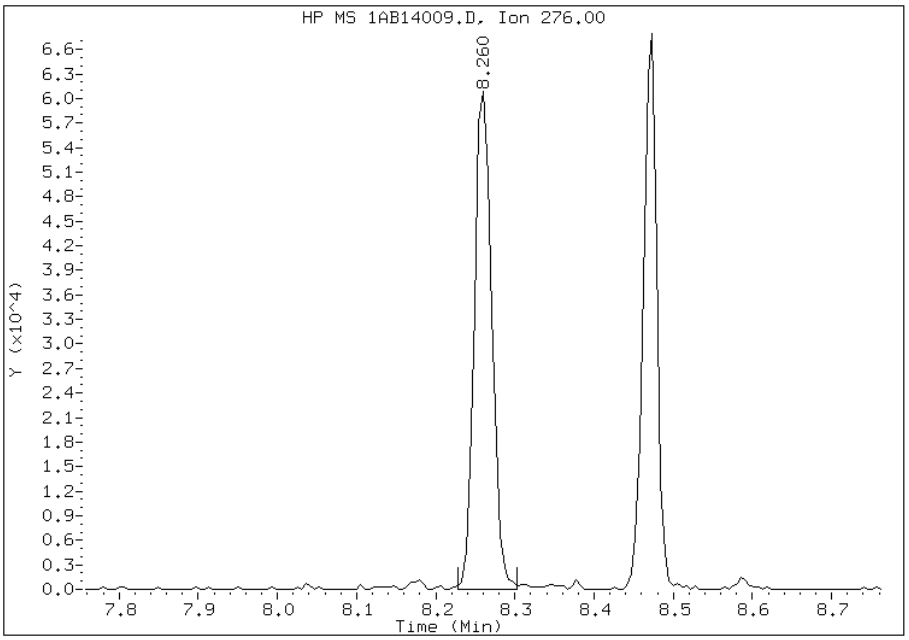
Processing Integration Results

RT: 8.26

Response: 92070

Amount: 9

Conc: 573



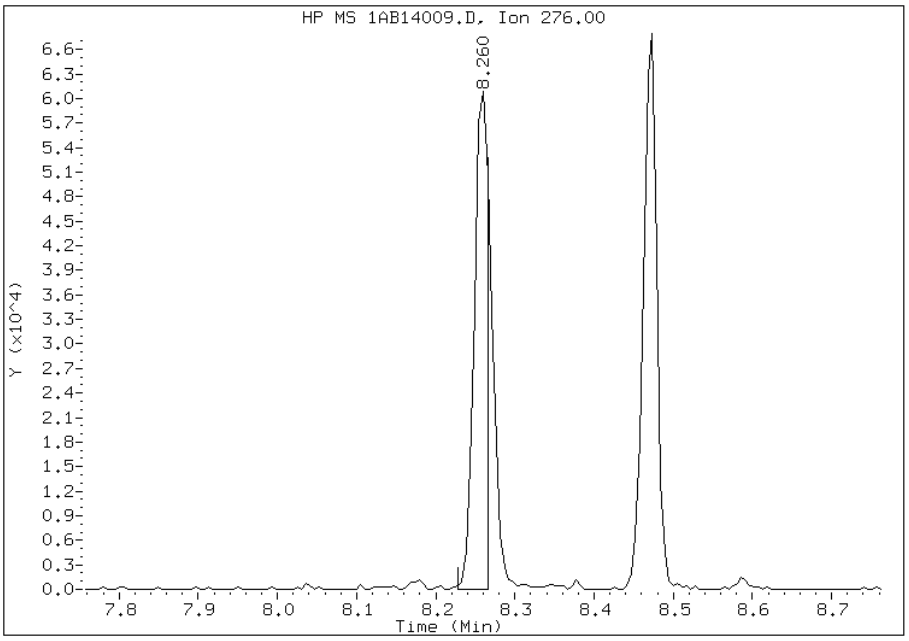
Manual Integration Results

RT: 8.26

Response: 71666

Amount: 7

Conc: 446



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-2

SDG No.: 68087218-2

Client Sample ID: CV0748J-CS MSD | Lab Sample ID: 680-87218-22 MSD

Matrix: Solid | Lab File ID: 1AB14010.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:18

Extract. Method: 3546 | Date Extracted: 02/13/2013 10:32

Sample wt/vol: 15.05(g) | Date Analyzed: 02/14/2013 12:07

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

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

% Moisture: 16.7 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	526		120	24
208-96-8	Acenaphthylene	518		48	6.0
120-12-7	Anthracene	562		10	5.0
56-55-3	Benzo[a]anthracene	665		9.6	4.7
50-32-8	Benzo[a]pyrene	503		12	6.2
205-99-2	Benzo[b]fluoranthene	554		15	7.3
191-24-2	Benzo[g,h,i]perylene	673		24	5.3
207-08-9	Benzo[k]fluoranthene	574		9.6	4.3
218-01-9	Chrysene	547		11	5.4
53-70-3	Dibenz(a,h)anthracene	589		24	4.9
206-44-0	Fluoranthene	625		24	4.8
86-73-7	Fluorene	560		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	594		24	8.5
90-12-0	1-Methylnaphthalene	560		48	5.3
91-57-6	2-Methylnaphthalene	609		48	8.5
91-20-3	Naphthalene	535		48	5.3
85-01-8	Phenanthrene	589		9.6	4.7
129-00-0	Pyrene	761		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\1AB14010.D
Lab Smp Id: 680-87218-a-22-c ms
Inj Date : 14-FEB-2013 12:07
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87218-a-22-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 10:31 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 10 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	15.050	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/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.427	2.430	(1.000)	834171	40.0000	
* 6 Acenaphthene-d10	164	3.458	3.461	(1.000)	492546	40.0000	
* 10 Phenanthrene-d10	188	4.399	4.402	(1.000)	721173	40.0000	
$ 14 o-Terphenyl	230	4.682	4.685	(1.064)	78507	7.49182	497.7954
* 18 Chrysene-d12	240	6.423	6.426	(1.000)	447979	40.0000	
* 23 Perylene-d12	264	7.518	7.527	(1.000)	449415	40.0000	
2 Naphthalene	128	2.438	2.441	(1.004)	135931	6.71354	446.0826
3 2-Methylnaphthalene	141	2.844	2.847	(1.172)	82866	7.63961	507.6154
4 1-Methylnaphthalene	142	2.897	2.900	(1.194)	86161	7.01716	466.2563
5 Acenaphthylene	152	3.373	3.371	(0.975)	141236	6.49408	431.5000
7 Acenaphthene	154	3.474	3.477	(1.005)	77642	6.59593	438.2675
9 Fluorene	166	3.784	3.787	(1.094)	103938	7.02223	466.5935
11 Phenanthrene	178	4.415	4.418	(1.004)	145459	7.38704	490.8334
12 Anthracene	178	4.452	4.455	(1.012)	141409	7.04360	468.0130

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.607	4.610	(1.047)	113426	6.59103	437.9423
15 Fluoranthene	202	5.280	5.283	(1.200)	153068	7.84059	520.9692
16 Pyrene	202	5.451	5.454	(0.849)	154281	9.53603	633.6230
17 Benzo(a)anthracene	228	6.418	6.416	(0.999)	111525	8.33767	553.9978
19 Chrysene	228	6.439	6.448	(1.002)	89396	6.85661	455.5888
20 Benzo(b)fluoranthene	252	7.241	7.244	(0.963)	87086	6.94284	461.3184
21 Benzo(k)fluoranthene	252	7.257	7.265	(0.965)	94457	7.20253	478.5736
22 Benzo(a)pyrene	252	7.470	7.479	(0.994)	75060	6.30159	418.7103
24 Indeno(1,2,3-cd)pyrene	276	8.261	8.275	(1.099)	69994	7.44182	494.4733(M)
25 Dibenzo(a,h)anthracene	278	8.272	8.291	(1.100)	69468	7.38804	490.8998
26 Benzo(g,h,i)perylene	276	8.469	8.494	(1.126)	82222	8.43816	560.6752

QC Flag Legend

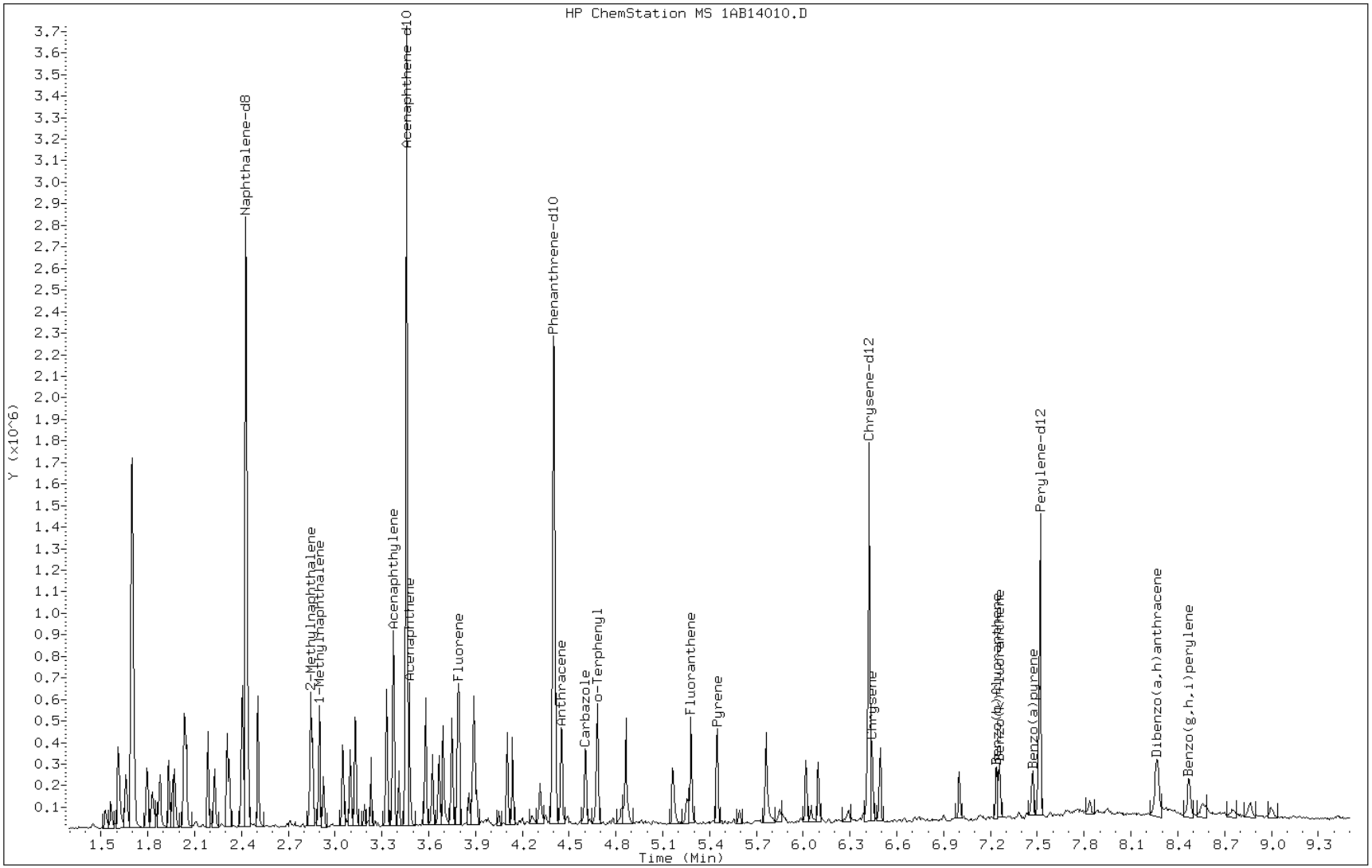
M - Compound response manually integrated.

Data File: 1AB14010.D

Date: 14-FEB-2013 12:07

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87218-a-22-c msd Operator: SCC



Manual Integration Report

Data File: 1AB14010.D
Inj. Date and Time: 14-FEB-2013 12:07
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

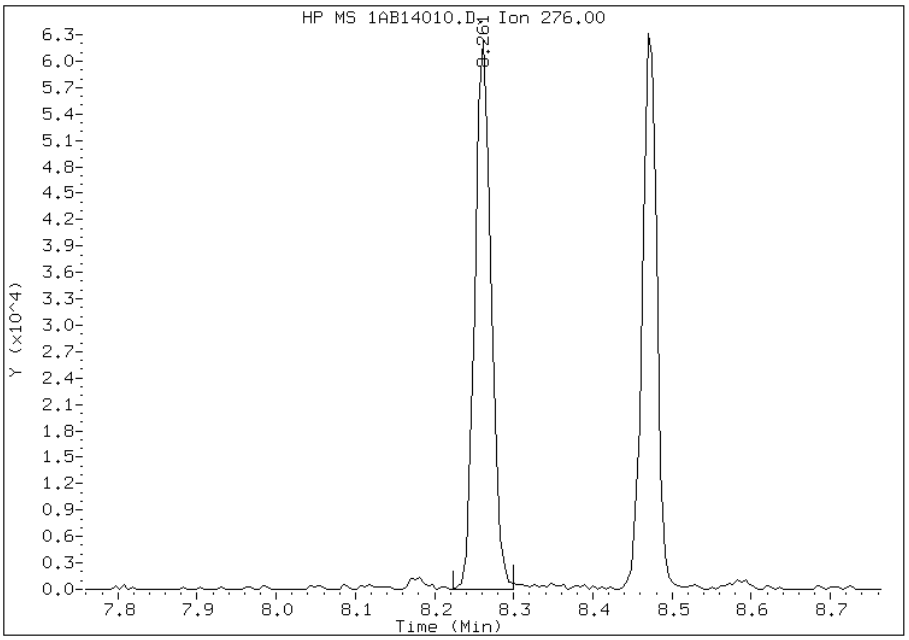
Processing Integration Results

RT: 8.26

Response: 88393

Amount: 9

Conc: 624



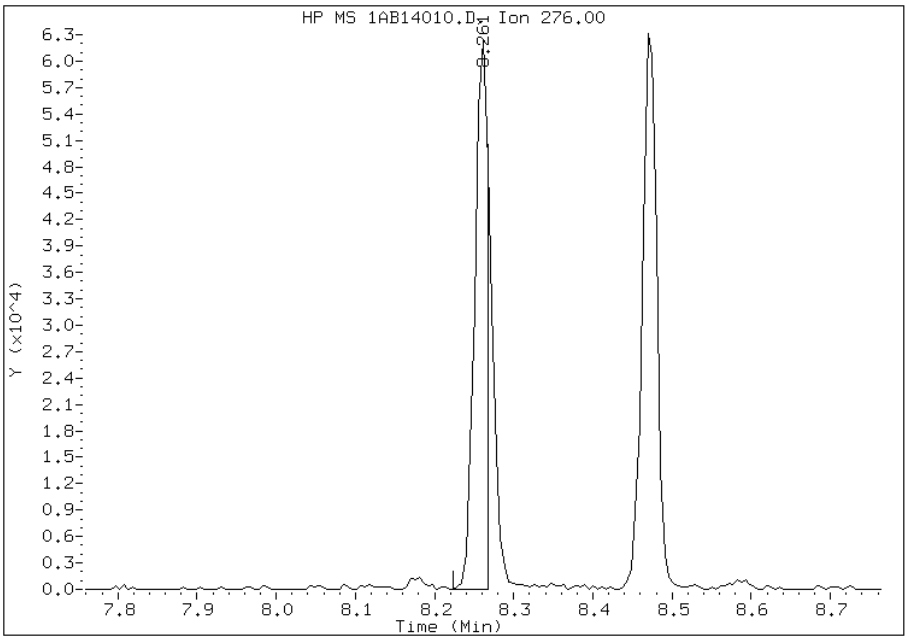
Manual Integration Results

RT: 8.26

Response: 69994

Amount: 7

Conc: 494



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:15
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Start Date: 01/30/2013 10:50

Analysis Batch Number: 133924 End Date: 01/30/2013 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/30/2013 10:50	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 11:05	1		DB-5MS 250(um)
DFTPP 660-133924/2		01/30/2013 11:20	1	1AA30002.D	DB-5MS 250(um)
ICIS 660-133924/3		01/30/2013 11:38	1	1AA30003.D	DB-5MS 250(um)
IC 660-133924/4		01/30/2013 12:04	1	1AA30004.D	DB-5MS 250(um)
IC 660-133924/5		01/30/2013 12:19	1	1AA30005.D	DB-5MS 250(um)
IC 660-133924/6		01/30/2013 12:34	1	1AA30006.D	DB-5MS 250(um)
IC 660-133924/7		01/30/2013 12:49	1	1AA30007.D	DB-5MS 250(um)
IC 660-133924/8		01/30/2013 13:04	1	1AA30008.D	DB-5MS 250(um)
IC 660-133924/9		01/30/2013 13:20	1	1AA30009.D	DB-5MS 250(um)
ICV 660-133924/10		01/30/2013 13:35	1	1AA30010.D	DB-5MS 250(um)
ZZZZZ		01/30/2013 13:52	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:08	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:23	20		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:54	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:09	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:24	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:54	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:25	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:40	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:55	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:10	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:25	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:11	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:26	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:41	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:56	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:11	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:26	4		DB-5MS 250(um)
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ZZZZZ		01/30/2013 21:43	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:58	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:13	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Start Date: 01/30/2013 10:50

Analysis Batch Number: 133924 End Date: 01/30/2013 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/30/2013 22:28	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:43	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:58	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Start Date: 02/14/2013 09:27

Analysis Batch Number: 134523 End Date: 02/14/2013 21:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
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ZZZZZ		02/14/2013 09:42	1		DB-5MS 250(um)
DFTPP 660-134523/2		02/14/2013 09:58	1	1AB14002.D	DB-5MS 250(um)
CCVIS 660-134523/3		02/14/2013 10:21	1	1AB14003.D	DB-5MS 250(um)
ZZZZZ		02/14/2013 10:36	1		DB-5MS 250(um)
MB 660-134426/1-A		02/14/2013 10:51	1	1AB14005.D	DB-5MS 250(um)
LCS 660-134426/2-A		02/14/2013 11:07	1	1AB14006.D	DB-5MS 250(um)
680-87218-21	CV0748I-CS	02/14/2013 11:22	1	1AB14007.D	DB-5MS 250(um)
680-87218-22	CV0748J-CS	02/14/2013 11:37	1	1AB14008.D	DB-5MS 250(um)
680-87218-22 MS	CV0748J-CS MS	02/14/2013 11:52	1	1AB14009.D	DB-5MS 250(um)
680-87218-22 MSD	CV0748J-CS MSD	02/14/2013 12:07	1	1AB14010.D	DB-5MS 250(um)
680-87218-23	CV0748K-CS	02/14/2013 12:22	1	1AB14011.D	DB-5MS 250(um)
680-87218-24	CV0748L-CS	02/14/2013 12:38	1	1AB14012.D	DB-5MS 250(um)
680-87218-25	CV0748M-CS	02/14/2013 12:53	1	1AB14013.D	DB-5MS 250(um)
680-87218-26	CV0748N-CS	02/14/2013 13:08	1	1AB14014.D	DB-5MS 250(um)
680-87218-27	CV0748O-CS	02/14/2013 13:23	1	1AB14015.D	DB-5MS 250(um)
680-87218-28	CV0748P-CS	02/14/2013 13:38	1	1AB14016.D	DB-5MS 250(um)
680-87218-29	CV0748Q-CS	02/14/2013 13:53	1	1AB14017.D	DB-5MS 250(um)
680-87218-30	CV0748R-CS	02/14/2013 14:08	1	1AB14018.D	DB-5MS 250(um)
680-87218-31	CV0748S-CS	02/14/2013 14:23	1	1AB14019.D	DB-5MS 250(um)
680-87218-32	CV0748T-CS	02/14/2013 14:38	1	1AB14020.D	DB-5MS 250(um)
680-87218-33	CV0748U-CS	02/14/2013 14:53	1	1AB14021.D	DB-5MS 250(um)
680-87218-34	CV0748V-CS	02/14/2013 15:08	1	1AB14022.D	DB-5MS 250(um)
680-87218-35	CV0439A-CS	02/14/2013 15:24	1	1AB14023.D	DB-5MS 250(um)
680-87218-36	CV0439A-CSD	02/14/2013 15:39	1	1AB14024.D	DB-5MS 250(um)
680-87218-37	CV0439B-CS	02/14/2013 15:54	1	1AB14025.D	DB-5MS 250(um)
680-87218-38	CV0467A-CS	02/14/2013 16:09	1	1AB14026.D	DB-5MS 250(um)
680-87218-39	CV0673A-CS	02/14/2013 16:24	1	1AB14027.D	DB-5MS 250(um)
680-87218-40	CV0673B-CS	02/14/2013 16:39	1	1AB14028.D	DB-5MS 250(um)
ZZZZZ		02/14/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 17:10	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 17:25	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 18:10	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 18:25	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 18:40	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 18:55	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 19:10	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 19:25	4		DB-5MS 250(um)
ZZZZZ		02/14/2013 19:41	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 19:56	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 20:11	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 20:26	4		DB-5MS 250(um)
ZZZZZ		02/14/2013 20:41	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: BSMA5973 Start Date: 02/14/2013 09:27

Analysis Batch Number: 134523 End Date: 02/14/2013 21:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/14/2013 20:56	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 21:11	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 21:26	4		DB-5MS 250(um)
ZZZZZ		02/14/2013 21:42	4		DB-5MS 250(um)
ZZZZZ		02/14/2013 21:57	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Batch Number: 134426 Batch Start Date: 02/13/13 10:32 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/13/13 18:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
MB 660-134426/1		3546, 8270C LL		15.03 g	1 mL		1 mL		
LCS 660-134426/2		3546, 8270C LL		15.13 g	1 mL	1 mL	1 mL		
680-87218-A-21	CV0748I-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-87218-A-22	CV0748J-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87218-A-22 MS	CV0748J-CS	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-87218-A-22 MSD	CV0748J-CS	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-87218-A-23	CV0748K-CS	3546, 8270C LL	T	15.44 g	1 mL		1 mL		
680-87218-A-24	CV0748L-CS	3546, 8270C LL	T	14.90 g	1 mL		1 mL		
680-87218-A-25	CV0748M-CS	3546, 8270C LL	T	15.42 g	1 mL		1 mL		
680-87218-A-26	CV0748N-CS	3546, 8270C LL	T	15.29 g	1 mL		1 mL		
680-87218-A-27	CV0748O-CS	3546, 8270C LL	T	15.30 g	1 mL		1 mL		
680-87218-A-28	CV0748P-CS	3546, 8270C LL	T	15.40 g	1 mL		1 mL		
680-87218-A-29	CV0748Q-CS	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-87218-A-30	CV0748R-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-87218-A-31	CV0748S-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-87218-A-32	CV0748T-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-87218-A-33	CV0748U-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87218-A-34	CV0748V-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-87218-A-35	CV0439A-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-87218-A-36	CV0439A-CSD	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-87218-A-37	CV0439B-CS	3546, 8270C LL	T	14.92 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.: 680-87218-2

SDG No.: 68087218-2

Batch Number: 134426 Batch Start Date: 02/13/13 10:32 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/13/13 18:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
680-87218-A-38	CV0467A-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-87218-A-39	CV0673A-CS	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-87218-A-40	CV0673B-CS	3546, 8270C LL	T	15.24 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT_50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_52
MeCl2/Acetone Lot #	EX-DCM/ACETON_15
Microwave Start Time	12:00 2/13/13
Microwave Stop Time	12:35 2/13/13
Na2SO4 Lot Number	EX-NA2S04A_62
Ottawa Sand Lot #	EX-OTTOWA SAND_9
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_174
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: 680-87218-2

SDG No.: 68087218-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0748I-CS	680-87218-21
CV0748J-CS	680-87218-22
CV0748K-CS	680-87218-23
CV0748L-CS	680-87218-24
CV0748M-CS	680-87218-25
CV0748N-CS	680-87218-26
CV0748O-CS	680-87218-27
CV0748P-CS	680-87218-28
CV0748Q-CS	680-87218-29
CV0748R-CS	680-87218-30
CV0748S-CS	680-87218-31
CV0748T-CS	680-87218-32
CV0748U-CS	680-87218-33
CV0748V-CS	680-87218-34
CV0439A-CS	680-87218-35
CV0439A-CSD	680-87218-36
CV0439B-CS	680-87218-37
CV0467A-CS	680-87218-38
CV0673A-CS	680-87218-39
CV0673B-CS	680-87218-40

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87218-2

SDG Number: 68087218-2

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: 680-87218-2

SDG Number: 68087218-2

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.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/10/2013 12:12 End Date: 02/10/2013 12:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134293/1	1	T	12:12	X																			
ZZZZZZ			12:12																				
ZZZZZZ			12:12																				
680-87218-21	1	T	12:12	X																			
680-87218-22	1	T	12:12	X																			
680-87218-23	1	T	12:12	X																			
680-87218-24	1	T	12:12	X																			
680-87218-25	1	T	12:12	X																			
680-87218-26	1	T	12:12	X																			
680-87218-27	1	T	12:12	X																			
680-87218-28	1	T	12:12	X																			
680-87218-29	1	T	12:12	X																			
680-87218-30	1	T	12:12	X																			
680-87218-31	1	T	12:12	X																			
680-87218-32	1	T	12:12	X																			
680-87218-33	1	T	12:12	X																			
680-87218-34	1	T	12:12	X																			
680-87218-35	1	T	12:12	X																			
680-87218-36	1	T	12:12	X																			
680-87218-37	1	T	12:12	X																			
680-87218-38	1	T	12:12	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/10/2013 15:25 End Date: 02/10/2013 15:25

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134296/1	1	T	15:25	X																			
680-87218-39	1	T	15:25	X																			
680-87218-40	1	T	15:25	X																			
ZZZZZZ			15:25																				
ZZZZZZ			15:25																				
ZZZZZZ			15:25																				
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ZZZZZZ			15:25																				
ZZZZZZ			15:25																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87218-2

SDG No.: 68087218-2

Batch Number: 134293 Batch Start Date: 02/10/13 12:12 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
LCS 660-134293/1		Moisture		1	0 g	5.05 g	5.07 g		
680-87218-A-21	CV0748I-CS	Moisture	T	4	0 g	5.73 g	4.50 g		
680-87218-A-22	CV0748J-CS	Moisture	T	5	0 g	5.45 g	4.54 g		
680-87218-A-23	CV0748K-CS	Moisture	T	6	0 g	5.36 g	4.99 g		
680-87218-A-24	CV0748L-CS	Moisture	T	7	0 g	5.25 g	4.87 g		
680-87218-A-25	CV0748M-CS	Moisture	T	8	0 g	5.29 g	5.24 g		
680-87218-A-26	CV0748N-CS	Moisture	T	9	0 g	5.72 g	5.05 g		
680-87218-A-27	CV0748O-CS	Moisture	T	10	0 g	5.26 g	4.55 g		
680-87218-A-28	CV0748P-CS	Moisture	T	11	0 g	6.45 g	5.40 g		
680-87218-A-29	CV0748Q-CS	Moisture	T	12	0 g	5.20 g	4.53 g		
680-87218-A-30	CV0748R-CS	Moisture	T	13	0 g	5.68 g	5.03 g		
680-87218-A-31	CV0748S-CS	Moisture	T	14	0 g	5.40 g	4.95 g		
680-87218-A-32	CV0748T-CS	Moisture	T	15	0 g	5.65 g	4.79 g		
680-87218-A-33	CV0748U-CS	Moisture	T	16	0 g	5.00 g	4.54 g		
680-87218-A-34	CV0748V-CS	Moisture	T	17	0 g	5.16 g	4.04 g		
680-87218-A-35	CV0439A-CS	Moisture	T	18	0 g	5.23 g	4.58 g		
680-87218-A-36	CV0439A-CSD	Moisture	T	19	0 g	5.13 g	4.46 g		
680-87218-A-37	CV0439B-CS	Moisture	T	20	0 g	5.14 g	4.48 g		
680-87218-A-38	CV0467A-CS	Moisture	T	21	0 g	5.22 g	4.12 g		

Batch Notes	

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.: 680-87218-2

SDG No.: 68087218-2

Batch Number: 134296 Batch Start Date: 02/10/13 15:25 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
LCS 660-134296/1		Moisture		1	0 g	5.05 g	5.05 g		
680-87218-A-39	CV0673A-CS	Moisture	T	2	0 g	5.27 g	3.85 g		
680-87218-A-40	CV0673B-CS	Moisture	T	3	0 g	5.08 g	4.24 g		

Batch Notes	

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 59511

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	6783555550	

CLIENT NAME	CLIENT E-MAIL
OTIE	LKrebs@otie.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 5

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	1,1,PAH	RCRA 8									REMARKS
2/5/13	0950	CU0748C-CS	C		✓			X										
	0951	CU0748C-CSD	C		✓			X										
	0956	CU0748D-CS	C		✓			X										
	0958	CU0748D-CSD	C		✓			X										
	1024	CU0748E-CS	C		✓			X										
	1027	CU0748F-CS	C		✓			X										
	1035	CU0748G-CS	C		✓			X										
	1302	CU0748H-CS	C		✓			X										
	1300	CU0748I-CS	C		✓			X	X									
	1318	CU0748J-CS	C		✓			X										
	1322	CU0748K-CS	C		✓			X										
	1329	CU0748L-CS	C		✓			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/6/13	1800						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/07/13	0937	YES ○ NO ○		680 87218	4.6°C

TAL8240-680 (1008)

Serial Number 59512

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148.1356	PROJECT LOCATION (STATE): AL	PAGE 3 OF 5
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 6783555550	CLIENT FAX	
CLIENT NAME: DME	CLIENT E-MAIL: Lkrebs@dme.com		
CLIENT ADDRESS			
COMPANY CONTRACTING THIS WORK (if applicable)			

STANDARD REPORT DELIVERY ○ DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LLPAH, 8082A

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH	8082A									REMARKS
2/5/13	1331	CV8748M-CS	C		✓			X										
	1333	CV8748N-CS	C		✓			X										
	1337	CV8748O-CS	C		✓			X										
	1443	CV8748P-CS	C		✓			X										
	1442	CV8748Q-CS	C		✓			X										
	1459	CV8748R-CS	C		✓			X										
	1507	CV8748S-CS	C		✓			X										
	1519	CV8748T-CS	C		✓			X										
	1522	CV8748U-CS	C		✓			X										
	1530	CV8748V-CS	C		✓			X										
	1330	CV8439A-CS	C		✓			X										
	1333	CV8439A-CSD	C		✓			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/6/13	1800						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/07/13	0937	YES ○ NO ○		680 87218	4.6°C

TAL8240-680 (1008)

02/20/2013

Serial Number 59513

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 6783555550	CLIENT FAX:
CLIENT NAME: ONE	CLIENT E-MAIL: Lkrebs@one.com	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 4 OF 5

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, ...)	VOA	ACAS									REMARKS
								PRESERVATIVE										
2/5/13	1337	CV0439B-CS	C		✓			X	X									
	1414	CV0467A-CS	C		✓			X										
	1318	CV0673A-CS	C		✓			X										
	1323	CV0673B-CS	C		✓			X										
	1254	CV0832A-CS	C		✓			X										
	1259	CV0832B-CS	C		✓			X	X									
	1501	HP0180A-CS	C		✓			X										
	1508	HP0180B-CS	C		✓			X										
	1445	HP0181A-CS	C		✓			X										
	1451	HP0181B-CS	C		✓			X										
	1337	CV0439B-CS (sieve)	C		✓				X									
	1300	CV0748I-CS (sieve)	C		✓				X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/6/13	1800						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/07/13	0937	YES ○ NO ○		680 87218	4.6°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-2
SDG Number: 68087218-2

Login Number: 87218
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.	N/A	
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: 680-87218-2
SDG Number: 68087218-2

Login Number: 87218
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 02/08/13 11:33 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.	N/A	
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	