ANALYTICAL REPORT

Job Number: 680-91719-2

SDG Number: 68091719-2

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.
Lisa M Harvey
Project Manager II
7/9/2013 10:55 AM

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07/09/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-91719-2

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 06/26/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): 062513-RB-Shovel (680-91719-35). Sample ID was added to COC by lab.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1363O-CS (680-91719-21), CV1363P-CS (680-91719-22), CV1363Q-CS (680-91719-23), CV1363R-CS (680-91719-24), CV1363R-CSD (680-91719-25), CV1363S-CS (680-91719-26), CV1363T-CS (680-91719-27), CV1363U-CS (680-91719-28), CV1363V-CS (680-91719-29) and CV1363V-CSD (680-91719-30) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Method(s) 8270C LL: The matrix spike (MS) recoveries for batch 139030 were outside control limits. The recoveries were biased low. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 139084 were outside control limits. This is attributed to non-homogeneity of the sample matrix and matrix interferences. The data has been qualified and reported.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 062513-RB-Shovel (680-91719-35) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-2
Sdg Number: 68091719-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-91719-21	CV1363O-CS	Solid	06/25/2013 0925	06/26/2013 0835
680-91719-21MS	CV1363O-CS	Solid	06/25/2013 0925	06/26/2013 0835
680-91719-21MSD	CV1363O-CS	Solid	06/25/2013 0925	06/26/2013 0835
680-91719-22	CV1363P-CS	Solid	06/25/2013 0930	06/26/2013 0835
680-91719-23	CV1363Q-CS	Solid	06/25/2013 0949	06/26/2013 0835
680-91719-24	CV1363R-CS	Solid	06/25/2013 1003	06/26/2013 0835
680-91719-25	CV1363R-CSD	Solid	06/25/2013 1003	06/26/2013 0835
680-91719-26	CV1363S-CS	Solid	06/25/2013 1110	06/26/2013 0835
680-91719-27	CV1363T-CS	Solid	06/25/2013 1111	06/26/2013 0835
680-91719-28	CV1363U-CS	Solid	06/25/2013 1125	06/26/2013 0835
680-91719-29	CV1363V-CS	Solid	06/25/2013 1125	06/26/2013 0835
680-91719-30	CV1363V-CSD	Solid	06/25/2013 1125	06/26/2013 0835
680-91719-35	062513-RB-Shovel	Water	06/25/2013 1030	06/26/2013 0835

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-2
Sdg Number: 68091719-2

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	
Matrix: Water			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C

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: 680-91719-2
Sdg Number: 68091719-2

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-2
Sdg Number: 68091719-2

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-2
Sdg Number: 68091719-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-138871					
LCS 660-138871/2-A	Lab Control Sample	T	Water	3520C	
MB 660-138871/1-A	Method Blank	T	Water	3520C	
680-91637-B-41-A MS	Matrix Spike	T	Water	3520C	
680-91719-35	062513-RB-Shovel	T	Water	3520C	
680-91719-35DU	Duplicate	T	Water	3520C	
Prep Batch: 660-139005					
LCS 660-139005/2-A	Lab Control Sample	T	Solid	3546	
MB 660-139005/1-A	Method Blank	T	Solid	3546	
680-91719-21	CV1363O-CS	T	Solid	3546	
680-91719-21MS	Matrix Spike	T	Solid	3546	
680-91719-21MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-139030					
LCS 660-138871/2-A	Lab Control Sample	T	Water	8270C LL	660-138871
MB 660-138871/1-A	Method Blank	T	Water	8270C LL	660-138871
680-91637-B-41-A MS	Matrix Spike	T	Water	8270C LL	660-138871
680-91719-35	062513-RB-Shovel	T	Water	8270C LL	660-138871
680-91719-35DU	Duplicate	T	Water	8270C LL	660-138871
Prep Batch: 660-139049					
LCS 660-139049/2-A	Lab Control Sample	T	Solid	3546	
MB 660-139049/1-A	Method Blank	T	Solid	3546	
680-91719-A-17-B MS	Matrix Spike	T	Solid	3546	
680-91719-A-17-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-91719-22	CV1363P-CS	T	Solid	3546	
680-91719-23	CV1363Q-CS	T	Solid	3546	
680-91719-24	CV1363R-CS	T	Solid	3546	
680-91719-25	CV1363R-CSD	T	Solid	3546	
680-91719-26	CV1363S-CS	T	Solid	3546	
680-91719-27	CV1363T-CS	T	Solid	3546	
680-91719-28	CV1363U-CS	T	Solid	3546	
680-91719-29	CV1363V-CS	T	Solid	3546	
680-91719-30	CV1363V-CSD	T	Solid	3546	
Analysis Batch:660-139084					
LCS 660-139005/2-A	Lab Control Sample	T	Solid	8270C LL	660-139005
MB 660-139005/1-A	Method Blank	T	Solid	8270C LL	660-139005
LCS 660-139049/2-A	Lab Control Sample	T	Solid	8270C LL	660-139049
MB 660-139049/1-A	Method Blank	T	Solid	8270C LL	660-139049
680-91719-A-17-B MS	Matrix Spike	T	Solid	8270C LL	660-139049
680-91719-A-17-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-139049
680-91719-21	CV1363O-CS	T	Solid	8270C LL	660-139005
680-91719-21MS	Matrix Spike	T	Solid	8270C LL	660-139005
680-91719-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-139005

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-2
Sdg Number: 68091719-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-139145					
680-91719-22	CV1363P-CS	T	Solid	8270C LL	660-139049
680-91719-23	CV1363Q-CS	T	Solid	8270C LL	660-139049
680-91719-24	CV1363R-CS	T	Solid	8270C LL	660-139049
680-91719-25	CV1363R-CSD	T	Solid	8270C LL	660-139049
680-91719-26	CV1363S-CS	T	Solid	8270C LL	660-139049
680-91719-27	CV1363T-CS	T	Solid	8270C LL	660-139049
680-91719-28	CV1363U-CS	T	Solid	8270C LL	660-139049
680-91719-29	CV1363V-CS	T	Solid	8270C LL	660-139049
680-91719-30	CV1363V-CSD	T	Solid	8270C LL	660-139049

Report Basis
T = Total

General Chemistry				
Analysis Batch:660-138912				
680-91719-21	CV1363O-CS	T	Solid	Moisture
680-91719-21MS	Matrix Spike	T	Solid	Moisture
680-91719-21MSD	Matrix Spike Duplicate	T	Solid	Moisture
680-91719-22	CV1363P-CS	T	Solid	Moisture
680-91719-23	CV1363Q-CS	T	Solid	Moisture
680-91719-24	CV1363R-CS	T	Solid	Moisture
680-91719-29	CV1363V-CS	T	Solid	Moisture
680-91719-30	CV1363V-CSD	T	Solid	Moisture
Analysis Batch:660-138941				
LCS 660-138941/1	Lab Control Sample	T	Solid	Moisture
LCSD 660-138941/22	Lab Control Sample Duplicate	T	Solid	Moisture
680-91719-25	CV1363R-CSD	T	Solid	Moisture
680-91719-26	CV1363S-CS	T	Solid	Moisture
680-91719-27	CV1363T-CS	T	Solid	Moisture
680-91719-28	CV1363U-CS	T	Solid	Moisture

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Analysis Batch Number: 138314

Lab Sample ID: IC 660-138314/5 Client Sample ID:

Date Analyzed: 06/11/13 14:58 Lab File ID: 1AF11005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.73	Baseline Event	cantins	06/11/13 15:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Analysis Batch Number: 139084

Lab Sample ID: 680-91719-21 Client Sample ID: CV1363O-CS

Date Analyzed: 07/03/13 15:09 Lab File ID: 1AG03018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.61	Split Peak	cantins	07/08/13 10:21
Benzo[k]fluoranthene	7.62	Baseline Event	cantins	07/08/13 10:21
Indeno[1,2,3-cd]pyrene	8.77	Split Peak	cantins	07/08/13 10:22

Lab Sample ID: 680-91719-21 MS Client Sample ID: CV1363O-CS MS

Date Analyzed: 07/03/13 15:39 Lab File ID: 1AG03020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.79	Split Peak	cantins	07/08/13 10:34

Lab Sample ID: 680-91719-21 MSD Client Sample ID: CV1363O-CS MSD

Date Analyzed: 07/03/13 15:54 Lab File ID: 1AG03021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.80	Split Peak	cantins	07/08/13 10:35

Lab Sample ID: LCS 660-139049/2-A Client Sample ID:

Date Analyzed: 07/03/13 16:24 Lab File ID: 1AG03023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.75	Split Peak	cantins	07/05/13 10:59

Lab Sample ID: 680-91719-A-17-B MS Client Sample ID:

Date Analyzed: 07/03/13 17:10 Lab File ID: 1AG03026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.79	Split Peak	cantins	07/05/13 11:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Analysis Batch Number: 139084

Lab Sample ID: 680-91719-A-17-C MSD Client Sample ID:

Date Analyzed: 07/03/13 17:25 Lab File ID: 1AG03027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.80	Split Peak	cantins	07/05/13 11:03

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Analysis Batch Number: 139145

Lab Sample ID: IC 660-139145/9 Client Sample ID:

Date Analyzed: 07/07/13 14:46 Lab File ID: 1AG07008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.67	Split Peak	cantins	07/08/13 11:40

Lab Sample ID: 680-91719-22 Client Sample ID: CV1363P-CS

Date Analyzed: 07/07/13 18:39 Lab File ID: 1AG07021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.59	Split Peak	cantins	07/08/13 12:05
Benzo[k]fluoranthene	7.59	Baseline Event	cantins	07/08/13 12:05
Indeno[1,2,3-cd]pyrene	8.73	Split Peak	cantins	07/08/13 12:06

Lab Sample ID: 680-91719-23 Client Sample ID: CV1363Q-CS

Date Analyzed: 07/07/13 18:54 Lab File ID: 1AG07022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.59	Split Peak	cantins	07/08/13 12:06
Benzo[k]fluoranthene	7.60	Baseline Event	cantins	07/08/13 12:06
Indeno[1,2,3-cd]pyrene	8.73	Split Peak	cantins	07/08/13 12:06

Lab Sample ID: 680-91719-24 Client Sample ID: CV1363R-CS

Date Analyzed: 07/07/13 19:09 Lab File ID: 1AG07023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.59	Split Peak	cantins	07/08/13 12:07
Benzo[k]fluoranthene	7.61	Baseline Event	cantins	07/08/13 12:07
Indeno[1,2,3-cd]pyrene	8.74	Split Peak	cantins	07/08/13 12:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Analysis Batch Number: 139145

Lab Sample ID: 680-91719-25 Client Sample ID: CV1363R-CSD

Date Analyzed: 07/07/13 19:24 Lab File ID: 1AG07024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.59	Split Peak	cantins	07/08/13 12:08
Benzo[k]fluoranthene	7.60	Baseline Event	cantins	07/08/13 12:08
Indeno[1,2,3-cd]pyrene	8.74	Split Peak	cantins	07/08/13 12:09

Lab Sample ID: 680-91719-26 Client Sample ID: CV1363S-CS

Date Analyzed: 07/07/13 19:39 Lab File ID: 1AG07025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.59	Split Peak	cantins	07/08/13 12:10
Benzo[k]fluoranthene	7.60	Baseline Event	cantins	07/08/13 12:10
Indeno[1,2,3-cd]pyrene	8.74	Split Peak	cantins	07/08/13 12:10

Lab Sample ID: 680-91719-27 Client Sample ID: CV1363T-CS

Date Analyzed: 07/07/13 19:54 Lab File ID: 1AG07026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.59	Split Peak	cantins	07/08/13 12:11
Benzo[k]fluoranthene	7.60	Baseline Event	cantins	07/08/13 12:11
Indeno[1,2,3-cd]pyrene	8.74	Split Peak	cantins	07/08/13 12:11

Lab Sample ID: 680-91719-28 Client Sample ID: CV1363U-CS

Date Analyzed: 07/07/13 20:09 Lab File ID: 1AG07027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.59	Split Peak	cantins	07/08/13 12:12
Benzo[k]fluoranthene	7.60	Baseline Event	cantins	07/08/13 12:12
Indeno[1,2,3-cd]pyrene	8.74	Split Peak	cantins	07/08/13 12:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Analysis Batch Number: 139145

Lab Sample ID: 680-91719-29 Client Sample ID: CV1363V-CS

Date Analyzed: 07/07/13 20:24 Lab File ID: 1AG07028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.59	Split Peak	cantins	07/08/13 12:12
Benzo[k]fluoranthene	7.60	Baseline Event	cantins	07/08/13 12:13
Indeno[1,2,3-cd]pyrene	8.75	Split Peak	cantins	07/08/13 12:13

Lab Sample ID: 680-91719-30 Client Sample ID: CV1363V-CSD

Date Analyzed: 07/07/13 20:39 Lab File ID: 1AG07029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.59	Split Peak	cantins	07/08/13 12:14
Benzo[k]fluoranthene	7.61	Baseline Event	cantins	07/08/13 12:14
Indeno[1,2,3-cd]pyrene	8.75	Split Peak	cantins	07/08/13 12:15

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.: 680-91719-2

SDG No.: 68091719-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1363O-CS	680-91719-21	47
CV1363P-CS	680-91719-22	63
CV1363Q-CS	680-91719-23	52
CV1363R-CS	680-91719-24	55
CV1363R-CSD	680-91719-25	55
CV1363S-CS	680-91719-26	56
CV1363T-CS	680-91719-27	56
CV1363U-CS	680-91719-28	57
CV1363V-CS	680-91719-29	63
CV1363V-CSD	680-91719-30	54
	MB 660-139005/1-A	50
	MB 660-139049/1-A	60
	LCS 660-139005/2-A	54
	LCS 660-139049/2-A	58
	680-91719-A-17-B MS	47
CV1363O-CS MS	680-91719-21 MS	45
	680-91719-A-17-C MSD	52
CV1363O-CS MSD	680-91719-21 MSD	42

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
062513-RB-Shovel	680-91719-35	44
	MB 660-138871/1-A	64
	LCS 660-138871/2-A	69
	680-91637-B-41-A MS	43
062513-RB-Shovel DU	680-91719-35 DU	46

	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.: 680-91719-2

SDG No.: 68091719-2

Matrix: Water Level: Low Lab File ID: 1AG02018.D

Lab ID: LCS 660-138871/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	10.0	6.47	65	55-132	
Acenaphthylene	10.0	5.71	57	39-130	
Anthracene	10.0	6.52	65	39-130	
Benzo[a]anthracene	10.0	7.28	73	54-135	
Benzo[a]pyrene	10.0	5.22	52	21-130	
Benzo[b]fluoranthene	10.0	6.49	65	37-130	
Benzo[g,h,i]perylene	10.0	4.92	49	26-130	
Benzo[k]fluoranthene	10.0	4.97	50	38-130	
Chrysene	10.0	7.41	74	56-130	
Dibenz(a,h)anthracene	10.0	4.40	44	13-130	
Fluoranthene	10.0	7.07	71	60-130	
Fluorene	10.0	6.30	63	55-140	
Indeno[1,2,3-cd]pyrene	10.0	4.74	47	21-130	
1-Methylnaphthalene	10.0	7.26	73	49-130	
2-Methylnaphthalene	10.0	7.68	77	48-130	
Naphthalene	10.0	8.27	83	54-133	
Phenanthrene	10.0	7.12	71	60-136	
Pyrene	10.0	7.45	75	60-138	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Matrix: Solid Level: Low Lab File ID: 1AG03006.D

Lab ID: LCS 660-139005/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	307	46	39-130	
Acenaphthylene	668	283	42	38-130	
Anthracene	668	340	51	37-130	
Benzo[a]anthracene	668	386	58	40-130	
Benzo[a]pyrene	668	368	55	49-130	
Benzo[b]fluoranthene	668	364	55	37-130	
Benzo[g,h,i]perylene	668	344	51	32-130	
Benzo[k]fluoranthene	668	345	52	32-130	
Chrysene	668	361	54	41-130	
Dibenz(a,h)anthracene	668	357	53	27-130	
Fluoranthene	668	341	51	40-130	
Fluorene	668	306	46	40-130	
Indeno[1,2,3-cd]pyrene	668	395	59	30-130	
1-Methylnaphthalene	668	356	53	31-130	
2-Methylnaphthalene	668	363	54	33-130	
Naphthalene	668	399	60	36-130	
Phenanthrene	668	346	52	42-130	
Pyrene	668	351	53	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Matrix: Solid Level: Low Lab File ID: 1AG03023.D

Lab ID: LCS 660-139049/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	660	322	49	39-130	
Acenaphthylene	660	311	47	38-130	
Anthracene	660	376	57	37-130	
Benzo[a]anthracene	660	462	70	40-130	
Benzo[a]pyrene	660	393	59	49-130	
Benzo[b]fluoranthene	660	450	68	37-130	
Benzo[g,h,i]perylene	660	225	34	32-130	
Benzo[k]fluoranthene	660	412	62	32-130	
Chrysene	660	403	61	41-130	
Dibenz(a,h)anthracene	660	293	44	27-130	
Fluoranthene	660	389	59	40-130	
Fluorene	660	339	51	40-130	
Indeno[1,2,3-cd]pyrene	660	314	48	30-130	
1-Methylnaphthalene	660	402	61	31-130	
2-Methylnaphthalene	660	406	62	33-130	
Naphthalene	660	450	68	36-130	
Phenanthrene	660	379	57	42-130	
Pyrene	660	329	50	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.: 680-91719-2

SDG No.: 68091719-2

Matrix: Water Level: Low Lab File ID: 1AG02022.D

Lab ID: 680-91637-B-41-A MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	9.62	1.9 U	3.91	41	55-132	F
Acenaphthylene	9.62	0.96 U	3.60	37	39-130	F
Anthracene	9.62	0.19 U	4.07	42	39-130	
Benzo[a]anthracene	9.62	0.19 U	3.97	41	54-135	F
Benzo[a]pyrene	9.62	0.19 U	2.35	24	21-130	
Benzo[b]fluoranthene	9.62	0.19 U	3.10	32	37-130	F
Benzo[g,h,i]perylene	9.62	0.48 U	1.32	14	26-130	F
Benzo[k]fluoranthene	9.62	0.19 U	2.21	23	38-130	F
Chrysene	9.62	0.19 U	3.53	37	56-130	F
Dibenz(a,h)anthracene	9.62	0.19 U	1.25	13	13-130	
Fluoranthene	9.62	0.48 U	4.40	46	60-130	F
Fluorene	9.62	1.9 U	3.97	41	55-140	F
Indeno[1,2,3-cd]pyrene	9.62	0.19 U	1.93	20	21-130	F
1-Methylnaphthalene	9.62	1.9 U	4.45	46	49-130	F
2-Methylnaphthalene	9.62	1.9 U	4.74	49	48-130	
Naphthalene	9.62	1.9 U	5.51	57	54-133	
Phenanthrene	9.62	0.48 U	4.30	45	60-136	F
Pyrene	9.62	0.48 U	4.62	48	60-138	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Matrix: Solid Level: Low Lab File ID: 1AG03026.D

Lab ID: 680-91719-A-17-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	744	110 U	315	42	39-130	
Acenaphthylene	744	46	311	36	38-130	F
Anthracene	744	85	383	40	37-130	
Benzo[a]anthracene	744	230	546	42	40-130	
Benzo[a]pyrene	744	230	506	37	49-130	F
Benzo[b]fluoranthene	744	380	836	62	37-130	
Benzo[g,h,i]perylene	744	110	262	20	32-130	F
Benzo[k]fluoranthene	744	150	393	33	32-130	
Chrysene	744	280	604	44	41-130	
Dibenz(a,h)anthracene	744	40	289	33	27-130	
Fluoranthene	744	470	720	34	40-130	F
Fluorene	744	22 U	304	41	40-130	
Indeno[1,2,3-cd]pyrene	744	120	333	29	30-130	F
1-Methylnaphthalene	744	68	402	45	31-130	
2-Methylnaphthalene	744	74	427	47	33-130	
Naphthalene	744	61	448	52	36-130	
Phenanthrene	744	290	551	35	42-130	F
Pyrene	744	290	492	27	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Matrix: Solid Level: Low Lab File ID: 1AG03020.D

Lab ID: 680-91719-21 MS Client ID: CV1363O-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	754	120 U	342	45	39-130	
Acenaphthylene	754	64	340	37	38-130	F
Anthracene	754	120	502	50	37-130	
Benzo[a]anthracene	754	350	848	66	40-130	
Benzo[a]pyrene	754	340	763	56	49-130	
Benzo[b]fluoranthene	754	630	1370	99	37-130	
Benzo[g,h,i]perylene	754	170	378	28	32-130	F
Benzo[k]fluoranthene	754	180	481	39	32-130	
Chrysene	754	440	944	67	41-130	
Dibenz(a,h)anthracene	754	62	333	36	27-130	
Fluoranthene	754	720	1490	102	40-130	
Fluorene	754	23 U	340	45	40-130	
Indeno[1,2,3-cd]pyrene	754	190	496	41	30-130	
1-Methylnaphthalene	754	91	469	50	31-130	
2-Methylnaphthalene	754	140	520	50	33-130	
Naphthalene	754	180	584	54	36-130	
Phenanthrene	754	380	1040	88	42-130	
Pyrene	754	460	905	59	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.: 680-91719-2

SDG No.: 68091719-2

Matrix: Solid Level: Low Lab File ID: 1AG03027.D

Lab ID: 680-91719-A-17-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	744	340	46	8	40	39-130	
Acenaphthylene	744	340	40	9	40	38-130	
Anthracene	744	467	51	20	40	37-130	
Benzo[a]anthracene	744	811	77	39	40	40-130	
Benzo[a]pyrene	744	773	73	42	40	49-130	F
Benzo[b]fluoranthene	744	1350	131	47	40	37-130	F
Benzo[g,h,i]perylene	744	353	33	30	40	32-130	
Benzo[k]fluoranthene	744	518	50	27	40	32-130	
Chrysene	744	925	87	42	40	41-130	F
Dibenz(a,h)anthracene	744	350	42	19	40	27-130	
Fluoranthene	744	1430	129	66	40	40-130	F
Fluorene	744	335	45	10	40	40-130	
Indeno[1,2,3-cd]pyrene	744	449	45	30	40	30-130	
1-Methylnaphthalene	744	483	56	18	40	31-130	
2-Methylnaphthalene	744	539	62	23	40	33-130	
Naphthalene	744	524	62	16	40	36-130	
Phenanthrene	744	838	74	41	40	42-130	F
Pyrene	744	798	68	47	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Matrix: Solid Level: Low Lab File ID: 1AG03021.D

Lab ID: 680-91719-21 MSD Client ID: CV1363O-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	768	336	44	2	40	39-130	
Acenaphthylene	768	345	37	2	40	38-130	F
Anthracene	768	565	57	12	40	37-130	
Benzo[a]anthracene	768	1040	90	20	40	40-130	
Benzo[a]pyrene	768	919	75	19	40	49-130	
Benzo[b]fluoranthene	768	1430	104	4	40	37-130	
Benzo[g,h,i]perylene	768	413	32	9	40	32-130	
Benzo[k]fluoranthene	768	744	73	43	40	32-130	F
Chrysene	768	1050	80	10	40	41-130	
Dibenz(a,h)anthracene	768	393	43	16	40	27-130	
Fluoranthene	768	2060	174	32	40	40-130	F
Fluorene	768	347	45	2	40	40-130	
Indeno[1,2,3-cd]pyrene	768	536	45	8	40	30-130	
1-Methylnaphthalene	768	484	51	3	40	31-130	
2-Methylnaphthalene	768	551	53	6	40	33-130	
Naphthalene	768	600	55	3	40	36-130	
Phenanthrene	768	1290	119	21	40	42-130	
Pyrene	768	1130	88	22	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.: 680-91719-2

SDG No.: 68091719-2

Lab File ID: 1AG02017.D Lab Sample ID: MB 660-138871/1-A

Matrix: Water Date Extracted: 06/27/2013 09:53

Instrument ID: BSMA5973 Date Analyzed: 07/02/2013 15:15

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-138871/2-A	1AG02018.D	07/02/2013 15:30
062513-RB-Shovel	680-91719-35	1AG02021.D	07/02/2013 16:15
	680-91637-B-41-A MS	1AG02022.D	07/02/2013 16:30
062513-RB-Shovel DU	680-91719-35 DU	1AG02023.D	07/02/2013 16:45

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Lab File ID: 1AG03005.D Lab Sample ID: MB 660-139005/1-A

Matrix: Solid Date Extracted: 07/02/2013 07:50

Instrument ID: BSMA5973 Date Analyzed: 07/03/2013 11:53

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-139005/2-A	1AG03006.D	07/03/2013 12:08
CV1363O-CS	680-91719-21	1AG03018.D	07/03/2013 15:09
CV1363O-CS MS	680-91719-21 MS	1AG03020.D	07/03/2013 15:39
CV1363O-CS MSD	680-91719-21 MSD	1AG03021.D	07/03/2013 15:54

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Lab File ID: 1AG03022.D Lab Sample ID: MB 660-139049/1-A

Matrix: Solid Date Extracted: 07/03/2013 07:27

Instrument ID: BSMA5973 Date Analyzed: 07/03/2013 16:09

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-139049/2-A	1AG03023.D	07/03/2013 16:24
	680-91719-A-17-B MS	1AG03026.D	07/03/2013 17:10
	680-91719-A-17-C MSD	1AG03027.D	07/03/2013 17:25
CV1363P-CS	680-91719-22	1AG07021.D	07/07/2013 18:39
CV1363Q-CS	680-91719-23	1AG07022.D	07/07/2013 18:54
CV1363R-CS	680-91719-24	1AG07023.D	07/07/2013 19:09
CV1363R-CSD	680-91719-25	1AG07024.D	07/07/2013 19:24
CV1363S-CS	680-91719-26	1AG07025.D	07/07/2013 19:39
CV1363T-CS	680-91719-27	1AG07026.D	07/07/2013 19:54
CV1363U-CS	680-91719-28	1AG07027.D	07/07/2013 20:09
CV1363V-CS	680-91719-29	1AG07028.D	07/07/2013 20:24
CV1363V-CSD	680-91719-30	1AG07029.D	07/07/2013 20:39

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

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Lab File ID: 1AF11003.D DFTPP Injection Date: 06/11/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 14:14

Analysis Batch No.: 138314

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	30.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	28.0	
70	Less than 2.0 % of mass 69	0.5	(1.8)1
127	10.0 - 80.0 % of mass 198	38.7	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	24.8	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	12.4	
442	Greater than 50.0 % of mass 198	84.6	
443	15.0 - 24.0 % of mass 442	16.0	(18.9)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 660-138314/4	1AF11004.D	06/11/2013	14:27
	IC 660-138314/5	1AF11005.D	06/11/2013	14:58
	IC 660-138314/6	1AF11006.D	06/11/2013	15:13
	IC 660-138314/7	1AF11007.D	06/11/2013	15:28
	IC 660-138314/8	1AF11008.D	06/11/2013	15:43
	IC 660-138314/9	1AF11009.D	06/11/2013	15:58
	IC 660-138314/10	1AF11010.D	06/11/2013	16:13
	ICV 660-138314/11	1AF11011.D	06/11/2013	16:33

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

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Lab File ID: 1AG02002.D DFTPP Injection Date: 07/02/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:16

Analysis Batch No.: 139030

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	31.5	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	30.1	
70	Less than 2.0 % of mass 69	0.3	(1.0)1
127	10.0 - 80.0 % of mass 198	41.8	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.8	
275	10.0 - 60.0 % of mass 198	24.6	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	13.3	
442	Greater than 50.0 % of mass 198	91.5	
443	15.0 - 24.0 % of mass 442	17.7	(19.4)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 660-139030/3	1AG02003.D	07/02/2013	11:29
	MB 660-138871/1-A	1AG02017.D	07/02/2013	15:15
	LCS 660-138871/2-A	1AG02018.D	07/02/2013	15:30
062513-RB-Shovel	680-91719-35	1AG02021.D	07/02/2013	16:15
	680-91637-B-41-A MS	1AG02022.D	07/02/2013	16:30
062513-RB-Shovel DU	680-91719-35 DU	1AG02023.D	07/02/2013	16:45

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

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Lab File ID: 1AG03002.D DFTPP Injection Date: 07/03/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:08

Analysis Batch No.: 139084

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	41.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	37.5	
70	Less than 2.0 % of mass 69	0.3	(0.9)1
127	10.0 - 80.0 % of mass 198	44.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	23.1	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	9.9	
442	Greater than 50.0 % of mass 198	71.0	
443	15.0 - 24.0 % of mass 442	13.0	(18.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-139084/3	1AG03003.D	07/03/2013	11:21
	MB 660-139005/1-A	1AG03005.D	07/03/2013	11:53
	LCS 660-139005/2-A	1AG03006.D	07/03/2013	12:08
CV1363O-CS	680-91719-21	1AG03018.D	07/03/2013	15:09
CV1363O-CS MS	680-91719-21 MS	1AG03020.D	07/03/2013	15:39
CV1363O-CS MSD	680-91719-21 MSD	1AG03021.D	07/03/2013	15:54
	MB 660-139049/1-A	1AG03022.D	07/03/2013	16:09
	LCS 660-139049/2-A	1AG03023.D	07/03/2013	16:24
	680-91719-A-17-B MS	1AG03026.D	07/03/2013	17:10
	680-91719-A-17-C MSD	1AG03027.D	07/03/2013	17:25

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

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Lab File ID: 1AG07005.D DFTPP Injection Date: 07/07/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 13:53

Analysis Batch No.: 139145

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	41.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	36.9	
70	Less than 2.0 % of mass 69	0.3	(0.8)1
127	10.0 - 80.0 % of mass 198	46.8	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.6	
275	10.0 - 60.0 % of mass 198	24.6	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	10.5	
442	Greater than 50.0 % of mass 198	69.6	
443	15.0 - 24.0 % of mass 442	13.8	(19.8)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
	ICIS 660-139145/7	1AG07006.D	07/07/2013	14:06
	IC 660-139145/8	1AG07007.D	07/07/2013	14:31
	IC 660-139145/9	1AG07008.D	07/07/2013	14:46
	IC 660-139145/10	1AG07009.D	07/07/2013	15:01
	IC 660-139145/11	1AG07010.D	07/07/2013	15:16
	IC 660-139145/12	1AG07011.D	07/07/2013	15:31
	IC 660-139145/13	1AG07012.D	07/07/2013	15:46
	ICV 660-139145/14	1AG07013.D	07/07/2013	16:01
CV1363P-CS	680-91719-22	1AG07021.D	07/07/2013	18:39
CV1363Q-CS	680-91719-23	1AG07022.D	07/07/2013	18:54
CV1363R-CS	680-91719-24	1AG07023.D	07/07/2013	19:09
CV1363R-CSD	680-91719-25	1AG07024.D	07/07/2013	19:24
CV1363S-CS	680-91719-26	1AG07025.D	07/07/2013	19:39
CV1363T-CS	680-91719-27	1AG07026.D	07/07/2013	19:54
CV1363U-CS	680-91719-28	1AG07027.D	07/07/2013	20:09
CV1363V-CS	680-91719-29	1AG07028.D	07/07/2013	20:24
CV1363V-CSD	680-91719-30	1AG07029.D	07/07/2013	20:39

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

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Sample No.: ICIS 660-138314/4 Date Analyzed: 06/11/2013 14:27

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

Lab File ID (Standard): 1AF11004.D Heated Purge: (Y/N) N

Calibration ID: 3027

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		5185951	2.70	2562463	3.74	4147924	4.71
UPPER LIMIT		10371902	3.20	5124926	4.24	8295848	5.21
LOWER LIMIT		2592976	2.20	1281232	3.24	2073962	4.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-138314/11		4907724	2.70	2403198	3.74	3840938	4.71

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.: 680-91719-2

SDG No.: 68091719-2

Sample No.: ICIS 660-138314/4 Date Analyzed: 06/11/2013 14:27

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

Lab File ID (Standard): 1AF11004.D Heated Purge: (Y/N) N

Calibration ID: 3027

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3726885	6.76	4369974	7.86		
UPPER LIMIT		7453770	7.26	8739948	8.36		
LOWER LIMIT		1863443	6.26	2184987	7.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-138314/11		3418126	6.76	3927398	7.86		

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.: 680-91719-2

SDG No.: 68091719-2

Sample No.: CCVIS 660-139030/3 Date Analyzed: 07/02/2013 11:29

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

Lab File ID (Standard): 1AG02003.D Heated Purge: (Y/N) N

Calibration ID: 3027

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3223741	2.68	1665166	3.72	2688412	4.70
UPPER LIMIT		6447482	3.18	3330332	4.22	5376824	5.20
LOWER LIMIT		1611871	2.18	832583	3.22	1344206	4.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138871/1-A		3084495	2.69	1717400	3.72	2654993	4.70
LCS 660-138871/2-A		2750377	2.69	1591423	3.72	2500336	4.70
680-91719-35	062513-RB-Shovel	3049429	2.69	1719273	3.72	2578658	4.70
680-91637-B-41-A MS		2748413	2.69	1550944	3.72	2447979	4.70
680-91719-35 DU	062513-RB-Shovel DU	2970648	2.68	1670183	3.72	2566493	4.70

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.: 680-91719-2

SDG No.: 68091719-2

Sample No.: CCVIS 660-139030/3 Date Analyzed: 07/02/2013 11:29

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

Lab File ID (Standard): 1AG02003.D Heated Purge: (Y/N) N

Calibration ID: 3027

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2408537	6.75	2656233	7.85		
UPPER LIMIT		4817074	7.25	5312466	8.35		
LOWER LIMIT		1204269	6.25	1328117	7.35		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138871/1-A		2740888	6.75	2881924	7.85		
LCS 660-138871/2-A		2461102	6.75	2690321	7.85		
680-91719-35	062513-RB-Shovel	2530834	6.75	2737366	7.85		
680-91637-B-41-A MS		2447419	6.75	2688380	7.85		
680-91719-35 DU	062513-RB-Shovel DU	2548687	6.75	2777301	7.85		

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.: 680-91719-2

SDG No.: 68091719-2

Sample No.: CCVIS 660-139084/3 Date Analyzed: 07/03/2013 11:21

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

Lab File ID (Standard): 1AG03003.D Heated Purge: (Y/N) N

Calibration ID: 3027

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4148746	2.69	2198267	3.73	3490904	4.70
UPPER LIMIT		8297492	3.19	4396534	4.23	6981808	5.20
LOWER LIMIT		2074373	2.19	1099134	3.23	1745452	4.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-139005/1-A		4694426	2.69	2726990	3.72	4206426	4.71
LCS 660-139005/2-A		3949971	2.69	2315531	3.73	3803588	4.71
680-91719-21	CV1363O-CS	3159579	2.70	1809683	3.73	2952219	4.72
680-91719-21 MS	CV1363O-CS MS	3301952	2.70	1940043	3.74	3134052	4.72
680-91719-21 MSD	CV1363O-CS MSD	3244404	2.70	1955039	3.74	3103695	4.73
MB 660-139049/1-A		3228474	2.70	1954856	3.73	2998839	4.72
LCS 660-139049/2-A		3046365	2.70	1884221	3.74	3068730	4.72
680-91719-A-17-B MS		3166795	2.70	1853185	3.74	3055188	4.72
680-91719-A-17-C MSD		3122555	2.70	1908154	3.74	2952351	4.73

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.: 680-91719-2

SDG No.: 68091719-2

Sample No.: CCVIS 660-139084/3 Date Analyzed: 07/03/2013 11:21

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

Lab File ID (Standard): 1AG03003.D Heated Purge: (Y/N) N

Calibration ID: 3027

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3237759	6.76	3626470	7.86		
UPPER LIMIT		6475518	7.26	7252940	8.36		
LOWER LIMIT		1618880	6.26	1813235	7.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-139005/1-A		4602052	6.76	4704774	7.86		
LCS 660-139005/2-A		3947212	6.76	4209981	7.86		
680-91719-21	CV1363O-CS	4146059	6.79	4058504	7.90		
680-91719-21 MS	CV1363O-CS MS	4200266	6.80	4129662	7.91		
680-91719-21 MSD	CV1363O-CS MSD	4236456	6.80	4002060	7.91		
MB 660-139049/1-A		4126283	6.79	3949212	7.90		
LCS 660-139049/2-A		4074454	6.79	3877935	7.89		
680-91719-A-17-B MS		4326163	6.80	4014471	7.91		
680-91719-A-17-C MSD		4293164	6.80	3803744	7.92		

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.: 680-91719-2

SDG No.: 68091719-2

Sample No.: ICIS 660-139145/7 Date Analyzed: 07/07/2013 14:06

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

Lab File ID (Standard): 1AG07006.D Heated Purge: (Y/N) N

Calibration ID: 3117

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3059306	2.68	1632402	3.71	2627201	4.69
UPPER LIMIT		6118612	3.18	3264804	4.21	5254402	5.19
LOWER LIMIT		1529653	2.18	816201	3.21	1313601	4.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-139145/14		2624272	2.68	1393027	3.71	2208439	4.69
680-91719-22	CV1363P-CS	2711807	2.69	1611315	3.72	2300710	4.69
680-91719-23	CV1363Q-CS	2589716	2.69	1556980	3.72	2304107	4.70
680-91719-24	CV1363R-CS	2678951	2.69	1654187	3.72	2363295	4.70
680-91719-25	CV1363R-CSD	2619716	2.68	1510545	3.72	2160623	4.70
680-91719-26	CV1363S-CS	2672166	2.69	1565191	3.72	2303976	4.70
680-91719-27	CV1363T-CS	2582151	2.69	1545376	3.72	2202740	4.70
680-91719-28	CV1363U-CS	2699285	2.69	1650015	3.72	2352465	4.70
680-91719-29	CV1363V-CS	2616390	2.69	1573063	3.72	2250431	4.70
680-91719-30	CV1363V-CSD	2575884	2.69	1569025	3.73	2328647	4.70

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.: 680-91719-2

SDG No.: 68091719-2

Sample No.: ICIS 660-139145/7 Date Analyzed: 07/07/2013 14:06

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

Lab File ID (Standard): 1AG07006.D Heated Purge: (Y/N) N

Calibration ID: 3117

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2407613	6.75	2496028	7.85		
UPPER LIMIT		4815226	7.25	4992056	8.35		
LOWER LIMIT		1203807	6.25	1248014	7.35		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-139145/14		2029780	6.75	2228189	7.84		
680-91719-22	CV1363P-CS	2554758	6.76	3583805	7.87		
680-91719-23	CV1363Q-CS	2595103	6.76	3590829	7.87		
680-91719-24	CV1363R-CS	2670298	6.77	3690180	7.88		
680-91719-25	CV1363R-CSD	2621597	6.77	3741242	7.88		
680-91719-26	CV1363S-CS	2893698	6.77	3937252	7.88		
680-91719-27	CV1363T-CS	2882397	6.77	3907770	7.89		
680-91719-28	CV1363U-CS	3068992	6.77	4073015	7.88		
680-91719-29	CV1363V-CS	3135564	6.77	3971872	7.89		
680-91719-30	CV1363V-CSD	3237428	6.78	4021394	7.89		

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.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363O-CS | Lab Sample ID: 680-91719-21

Matrix: Solid | Lab File ID: 1AG03018.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 09:25

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 14.81(g) | Date Analyzed: 07/03/2013 15:09

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.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	64	F	47	5.9
120-12-7	Anthracene	120		9.8	4.9
56-55-3	Benzo[a]anthracene	350		9.4	4.6
50-32-8	Benzo[a]pyrene	340		12	6.1
205-99-2	Benzo[b]fluoranthene	630		14	7.1
191-24-2	Benzo[g,h,i]perylene	170	F	23	5.2
207-08-9	Benzo[k]fluoranthene	180	F	9.4	4.2
218-01-9	Chrysene	440		11	5.3
53-70-3	Dibenz(a,h)anthracene	62		23	4.8
206-44-0	Fluoranthene	720	F	23	4.7
86-73-7	Fluorene	23	U	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	190		23	8.3
90-12-0	1-Methylnaphthalene	91		47	5.2
91-57-6	2-Methylnaphthalene	140		47	8.3
91-20-3	Naphthalene	180		47	5.2
85-01-8	Phenanthrene	380		9.4	4.6
129-00-0	Pyrene	460		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03018.D
Lab Smp Id: 680-91719-A-21-A Client Smp ID: CV1363O-CS
Inj Date : 03-JUL-2013 15:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-21-A
Misc Info : 680-91719-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.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	14.810	Weight Extracted
M	13.474	% 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	2.698	2.689	(1.000)	3159579	40.0000	
* 7 Acenaphthene-d10	164	3.734	3.725	(1.000)	1809683	40.0000	
* 11 Phenanthrene-d10	188	4.717	4.703	(1.000)	2952219	40.0000	
$ 15 o-Terphenyl	230	5.006	4.996	(1.061)	287474	4.70717	367.3301
* 19 Chrysene-d12	240	6.790	6.759	(1.000)	4146059	40.0000	
* 24 Perylene-d12	264	7.901	7.860	(1.000)	4058504	40.0000	(H)
2 Naphthalene	128	2.709	2.705	(1.004)	190212	2.30572	179.9295
3 2-Methylnaphthalene	141	3.114	3.105	(1.154)	104205	1.79952	140.4282
4 1-Methylnaphthalene	142	3.168	3.164	(1.174)	79817	1.16642	91.0227
6 Acenaphthylene	152	3.643	3.634	(0.976)	88959	0.81802	63.8353
12 Phenanthrene	178	4.728	4.719	(1.002)	503774	4.81094	375.4281
13 Anthracene	178	4.765	4.756	(1.010)	177031	1.59639	124.5764
16 Fluoranthene	202	5.620	5.600	(1.191)	1099799	9.27771	723.9979
17 Pyrene	202	5.791	5.771	(0.853)	986533	5.90192	460.5641

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.779	6.743	(0.998)	635866	4.46287	348.2657
20 Chrysene	228	6.801	6.781	(1.002)	759695	5.59410	436.5430
21 Benzo(b)fluoranthene	252	7.613	7.577	(0.963)	1029542	8.01495	625.4570(MH)
22 Benzo(k)fluoranthene	252	7.623	7.598	(0.965)	351102	2.34815	183.2413(QMH)
23 Benzo(a)pyrene	252	7.842	7.812	(0.993)	521915	4.34751	339.2632(H)
25 Indeno(1,2,3-cd)pyrene	276	8.772	8.715	(1.110)	256884	2.39708	187.0591(MH)
26 Dibenzo(a,h)anthracene	278	8.793	8.741	(1.113)	84089	0.79186	61.7940(H)
27 Benzo(g,h,i)perylene	276	9.034	8.966	(1.143)	247218	2.16639	169.0570(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: 1AG03018.D

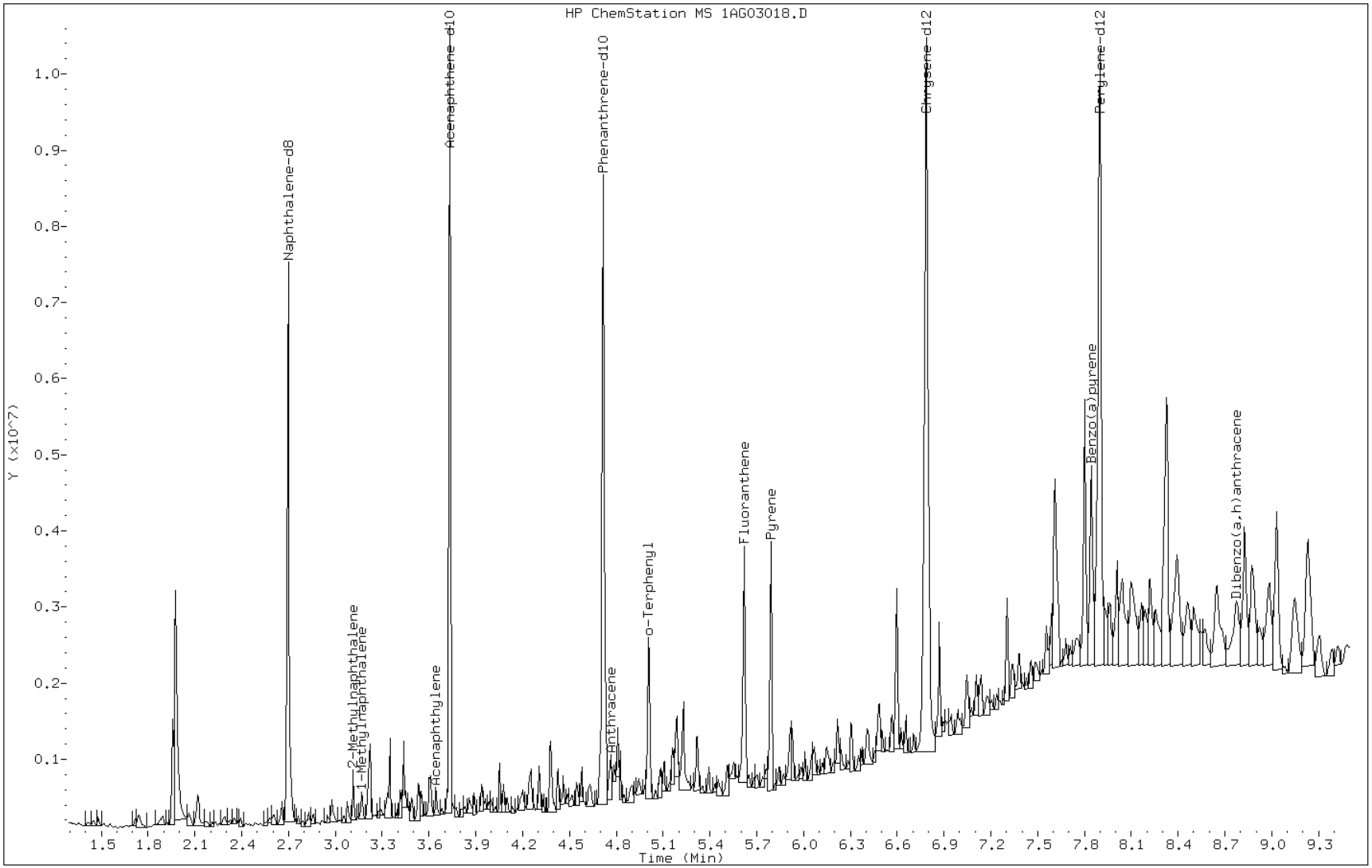
Date: 03-JUL-2013 15:09

Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC



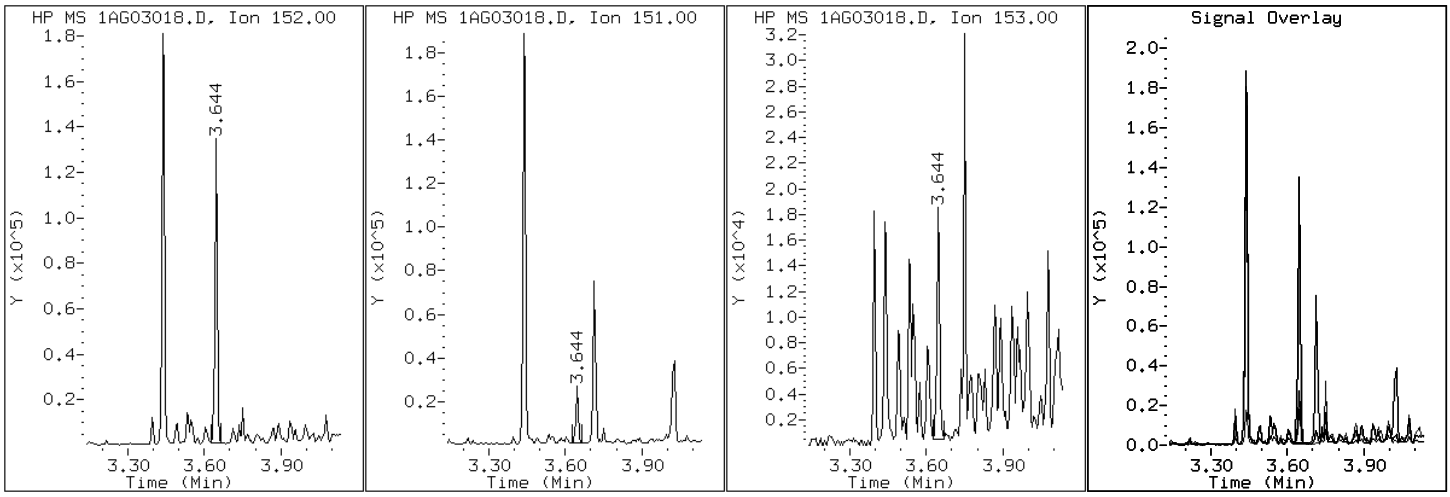
Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

Client ID: CV1363O-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A Operator: SCC

6 Acenaphthylene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

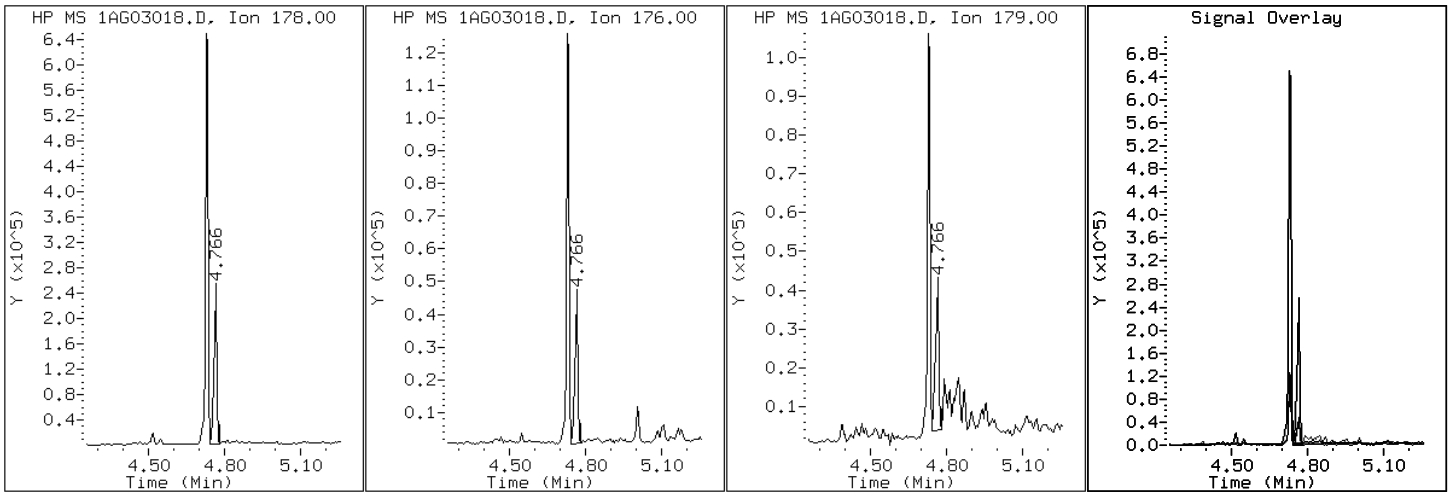
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

13 Anthracene



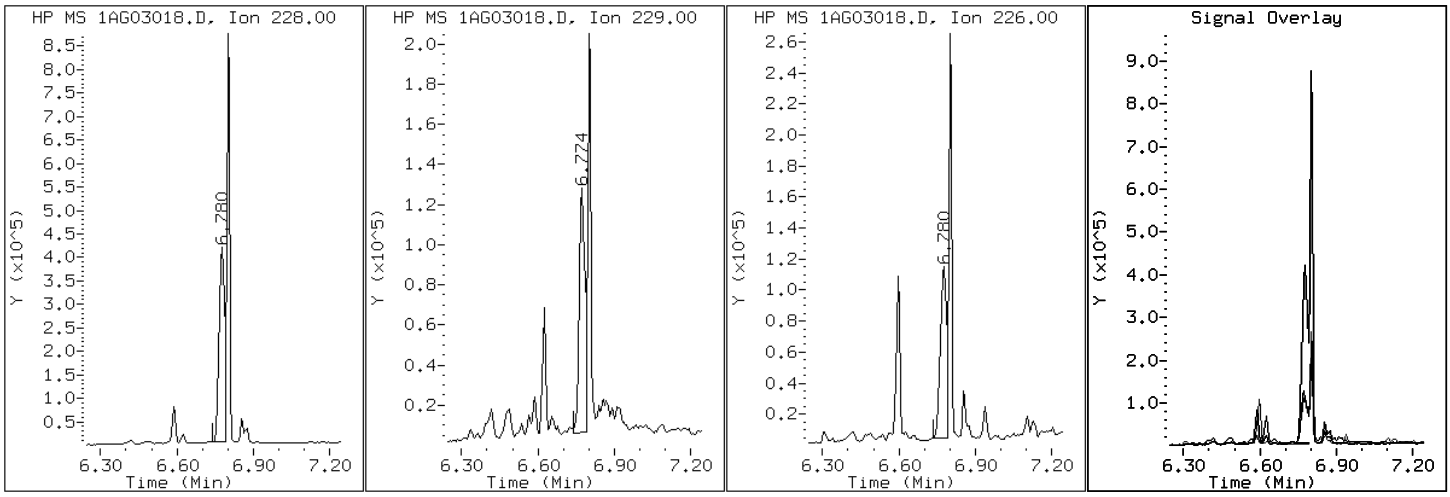
Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

Client ID: CV1363O-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A Operator: SCC

18 Benzo(a)anthracene



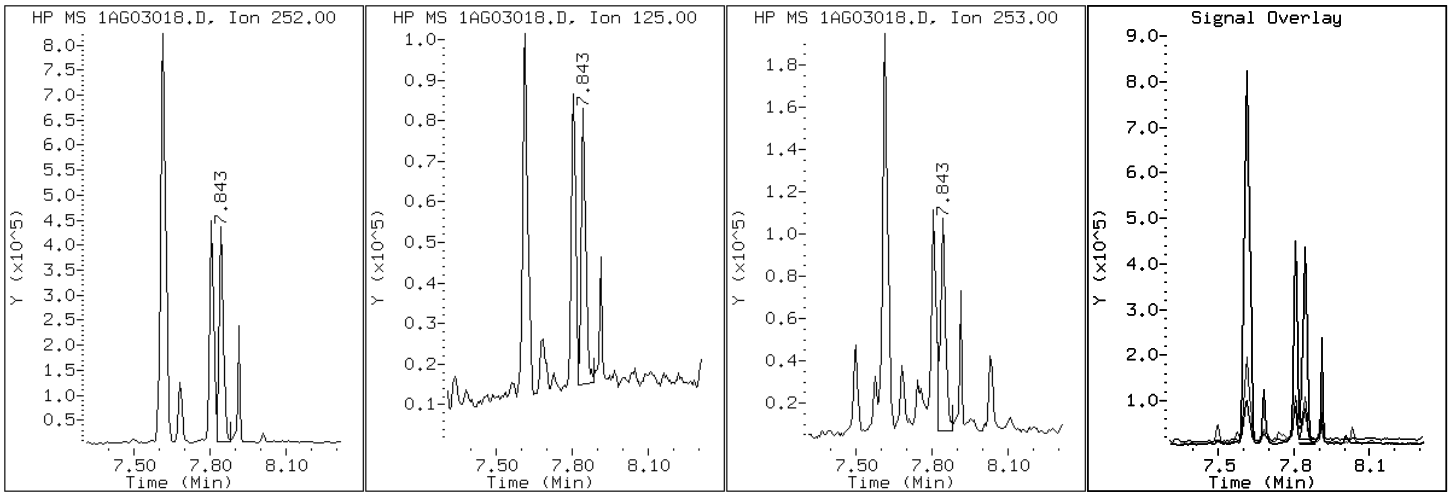
Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

Client ID: CV1363O-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A Operator: SCC

23 Benzo(a)pyrene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

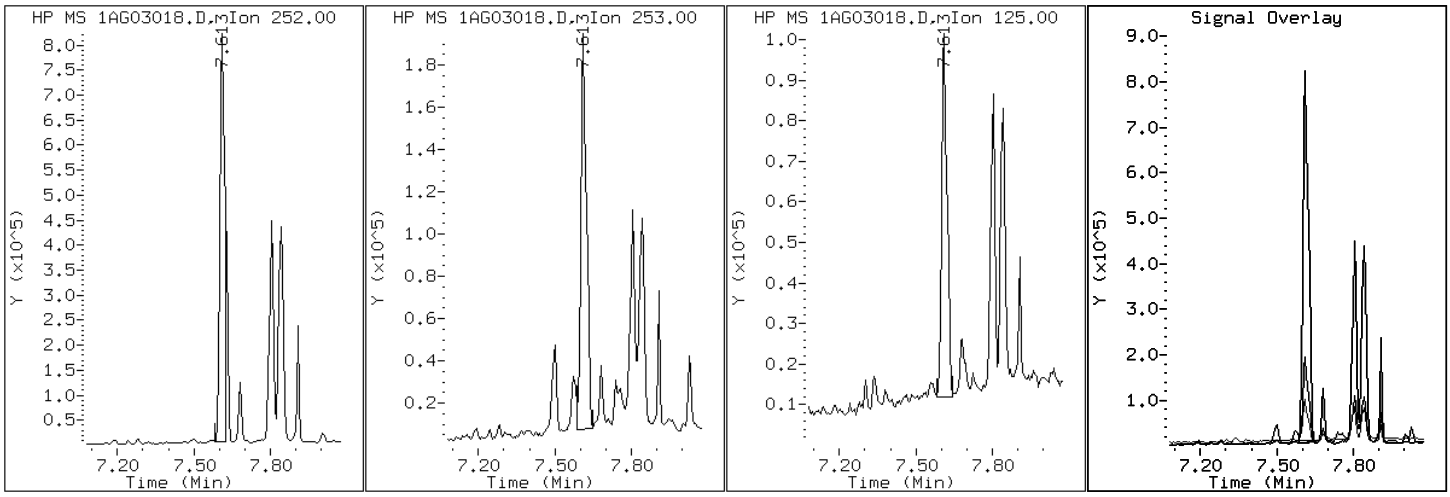
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

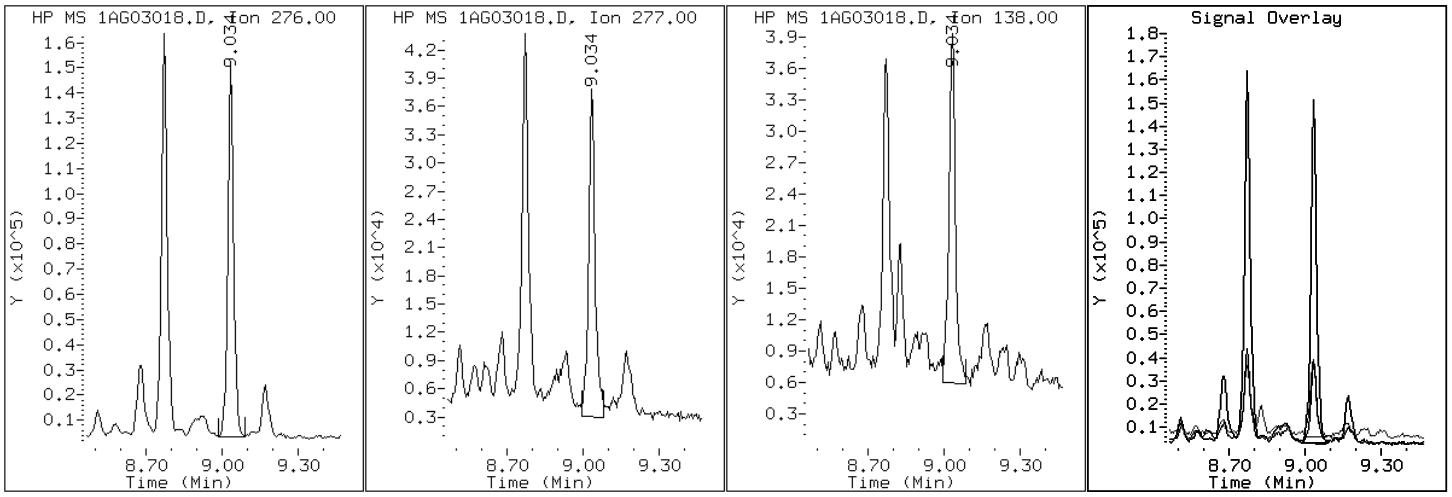
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

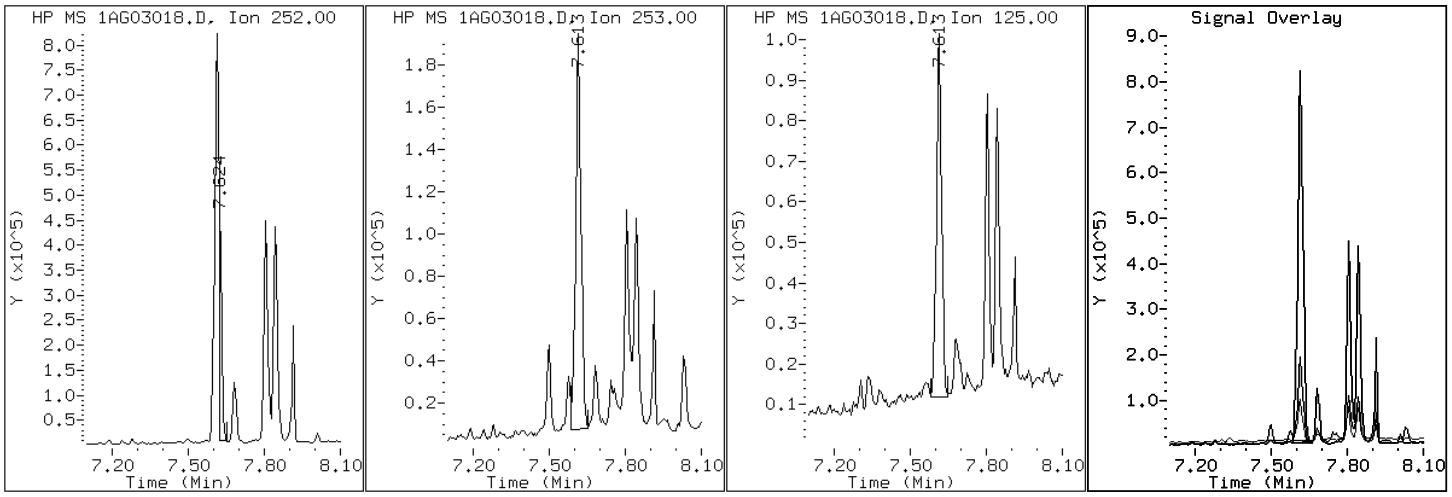
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

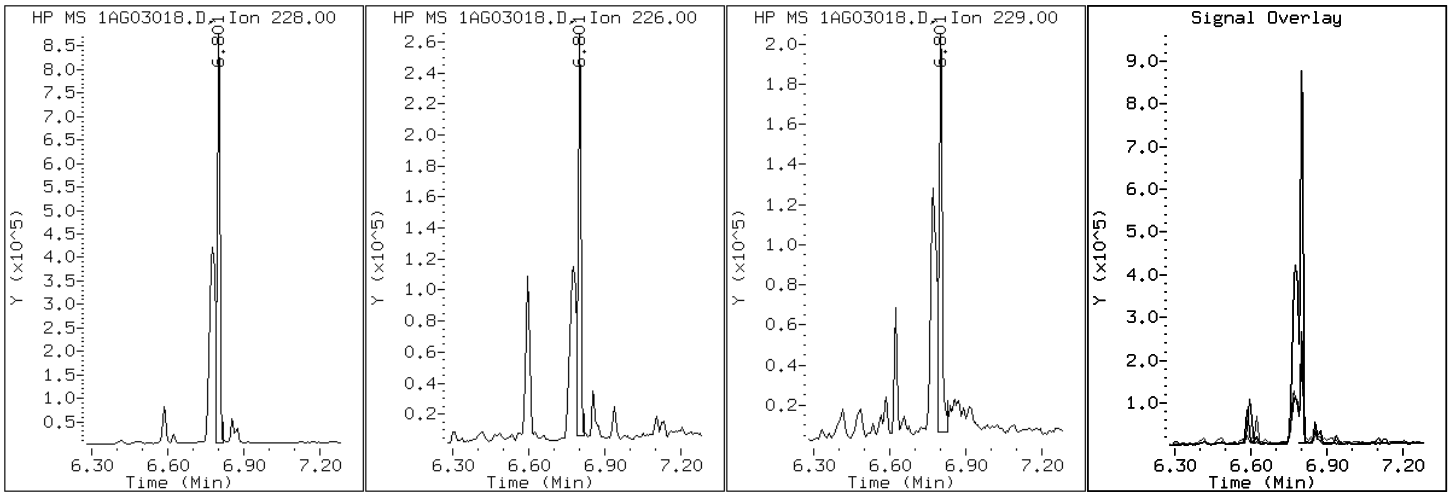
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

20 Chrysene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

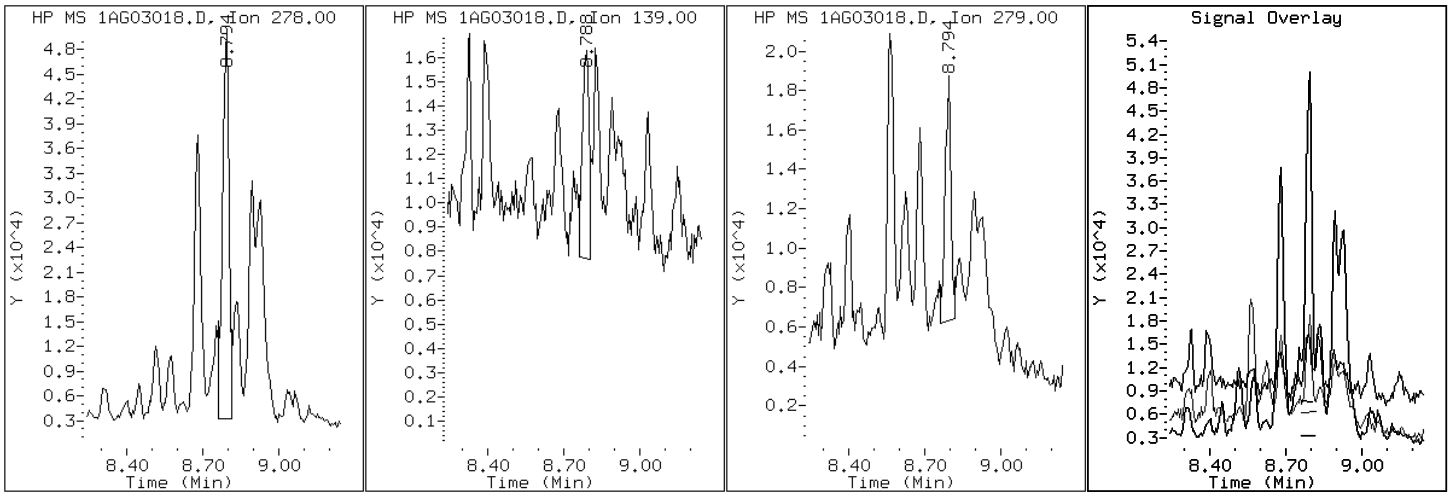
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

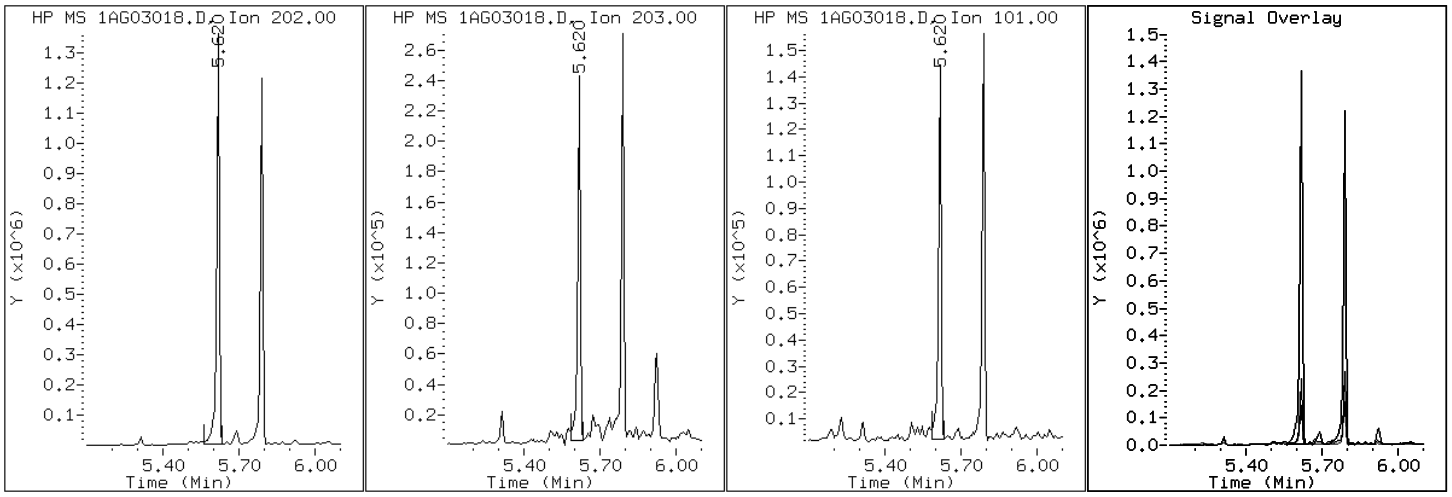
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

16 Fluoranthene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

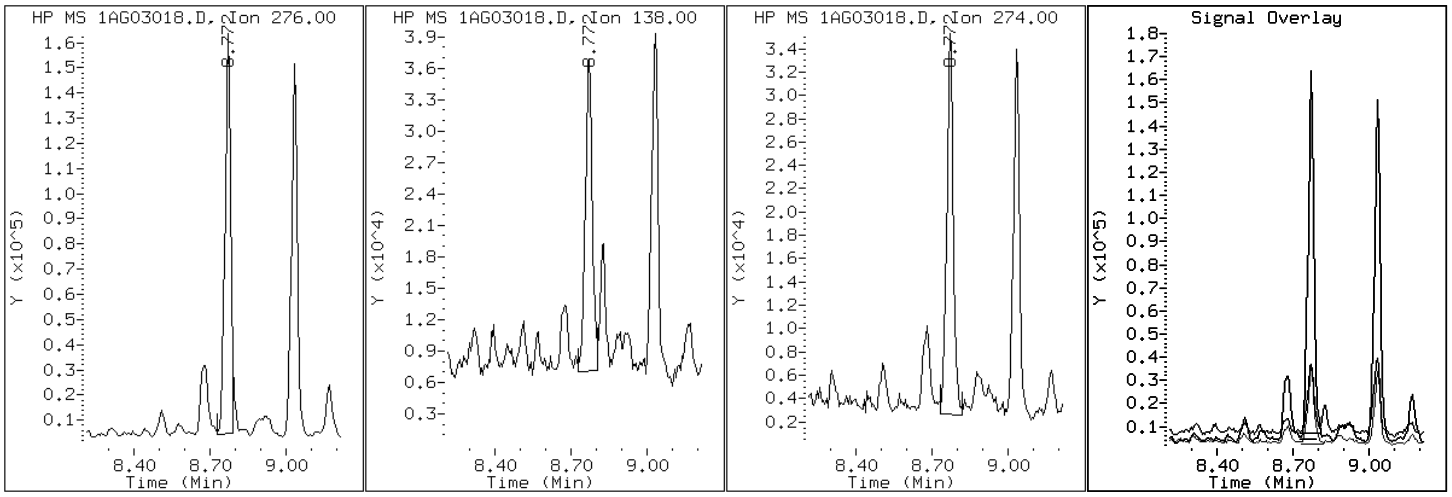
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

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



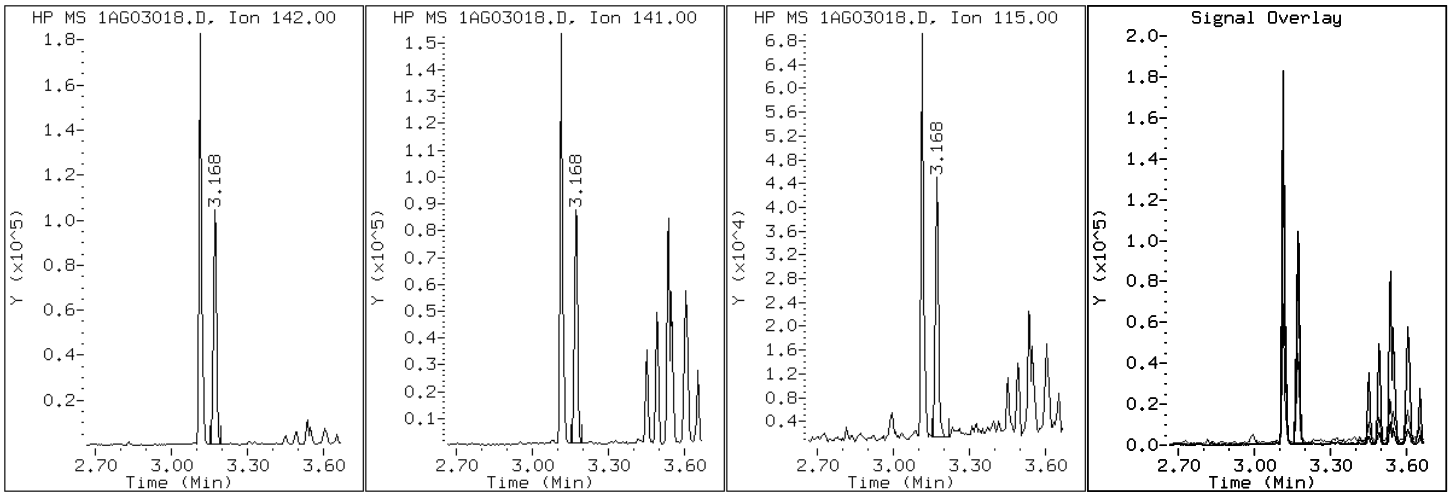
Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

Client ID: CV1363O-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A Operator: SCC

4 1-Methylnaphthalene



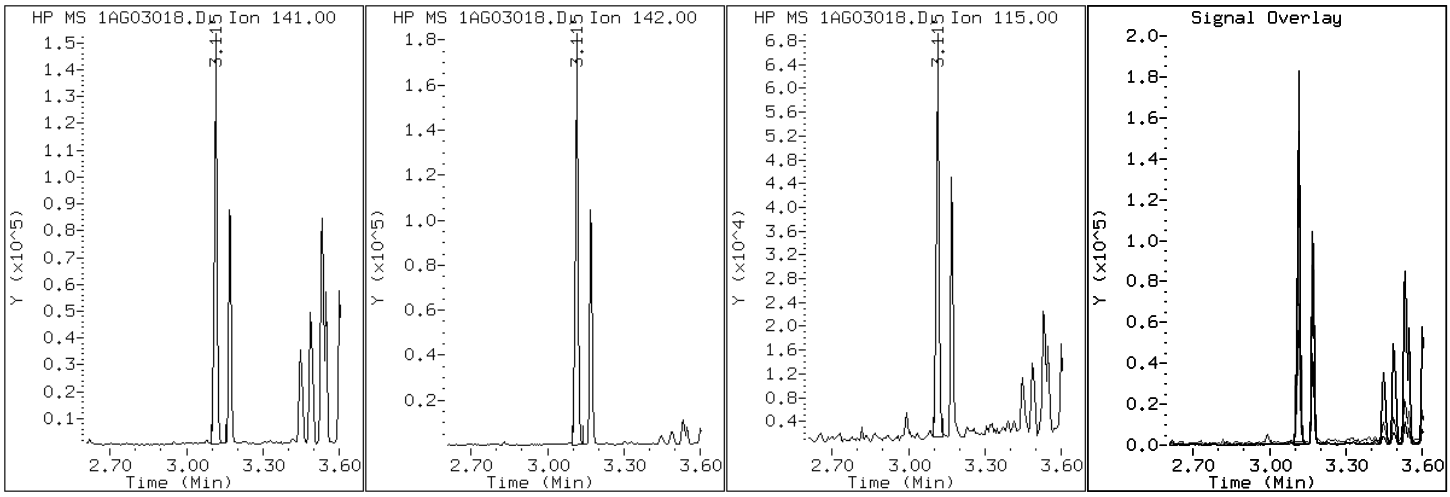
Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

Client ID: CV1363O-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

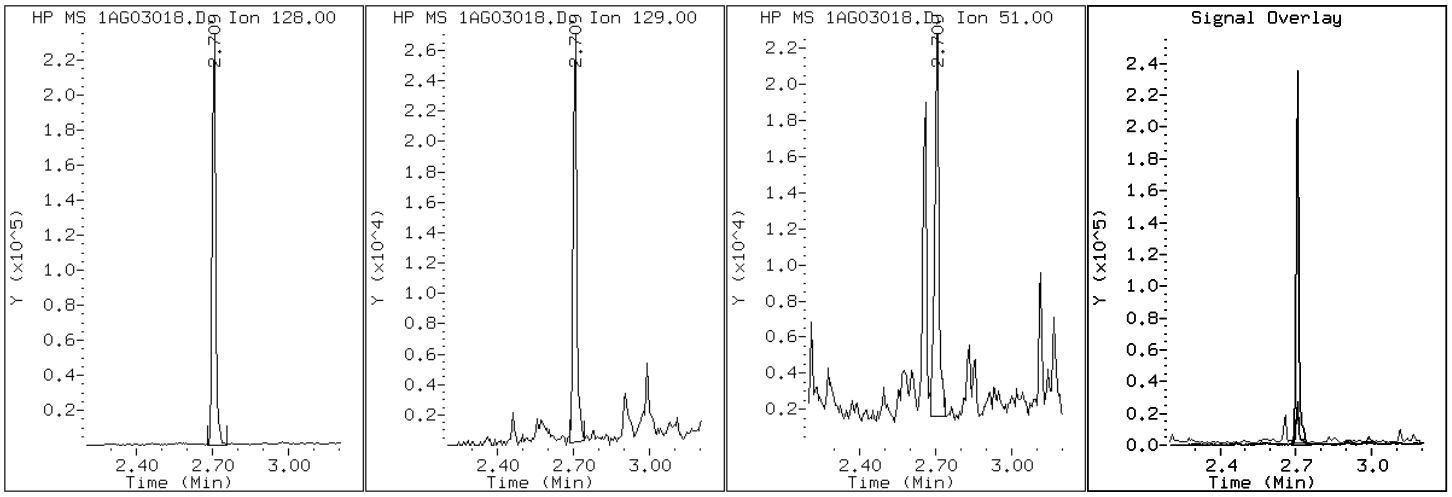
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

2 Naphthalene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

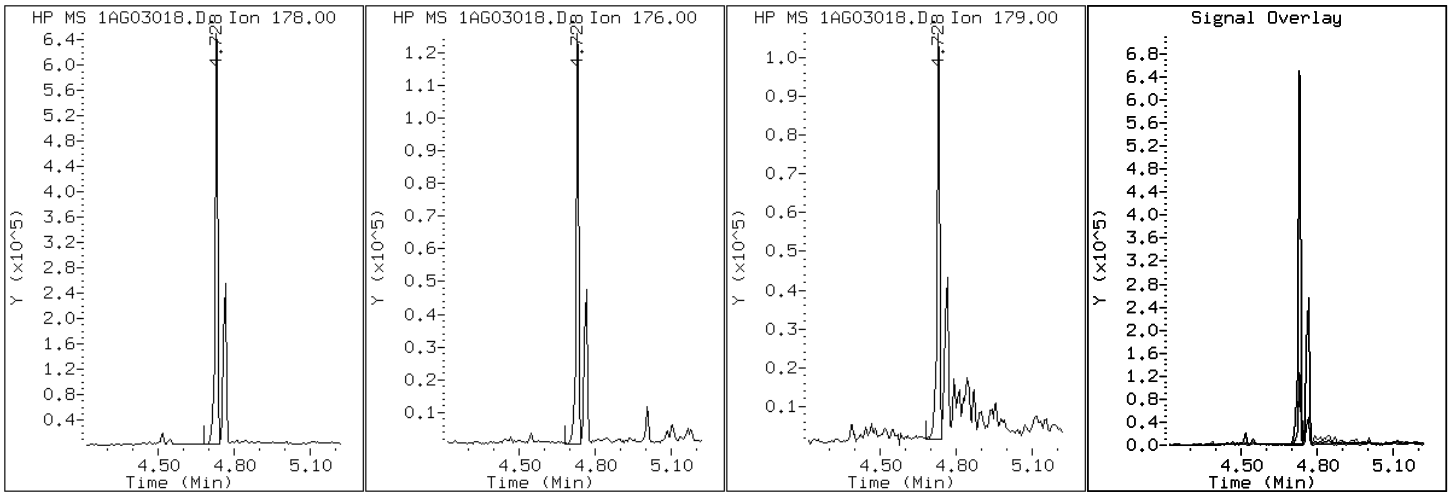
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

12 Phenanthrene



Data File: 1AG03018.D

Date: 03-JUL-2013 15:09

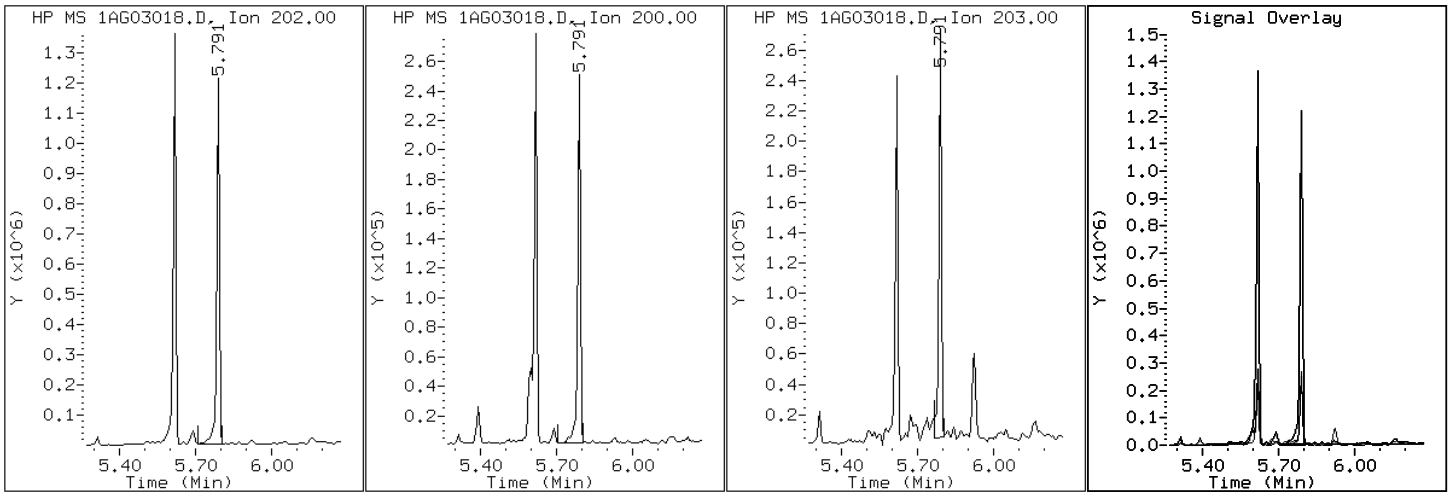
Client ID: CV1363O-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-A

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03018.D
Inj. Date and Time: 03-JUL-2013 15:09
Instrument ID: BSMA5973.i
Client ID: CV1363O-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

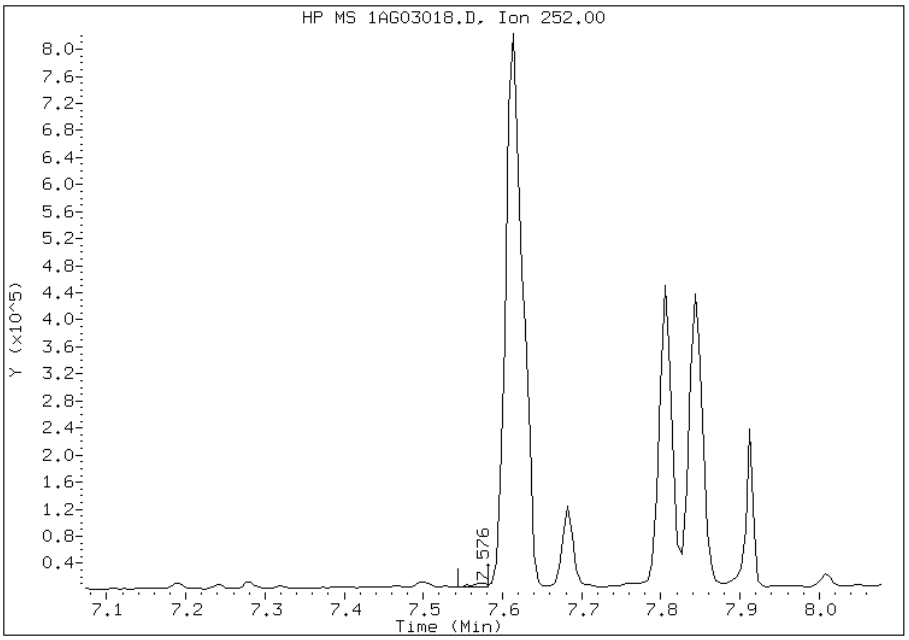
Processing Integration Results

RT: 7.58

Response: 7573

Amount: 0

Conc: 5



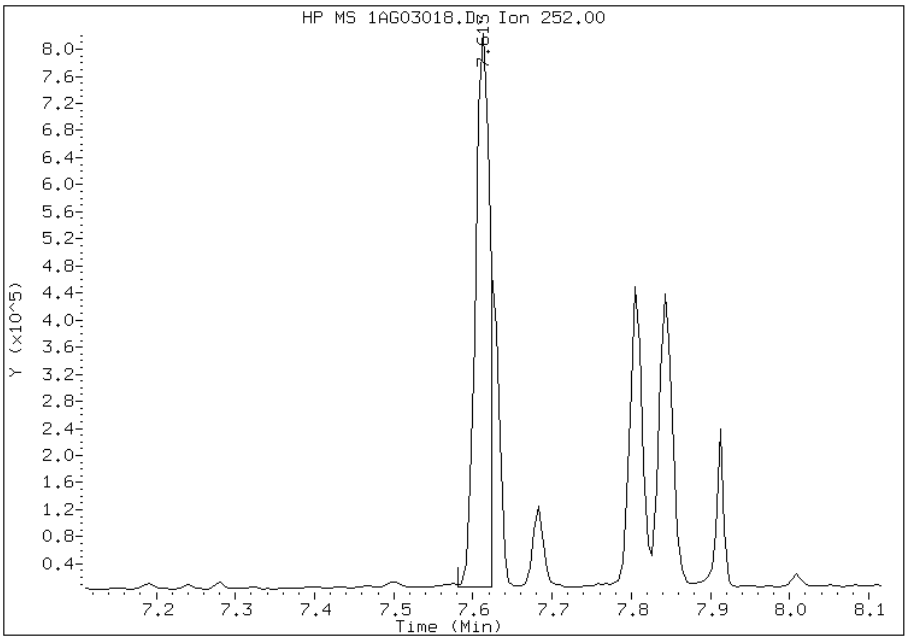
Manual Integration Results

RT: 7.61

Response: 1029542

Amount: 8

Conc: 625



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03018.D
Inj. Date and Time: 03-JUL-2013 15:09
Instrument ID: BSMA5973.i
Client ID: CV1363O-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

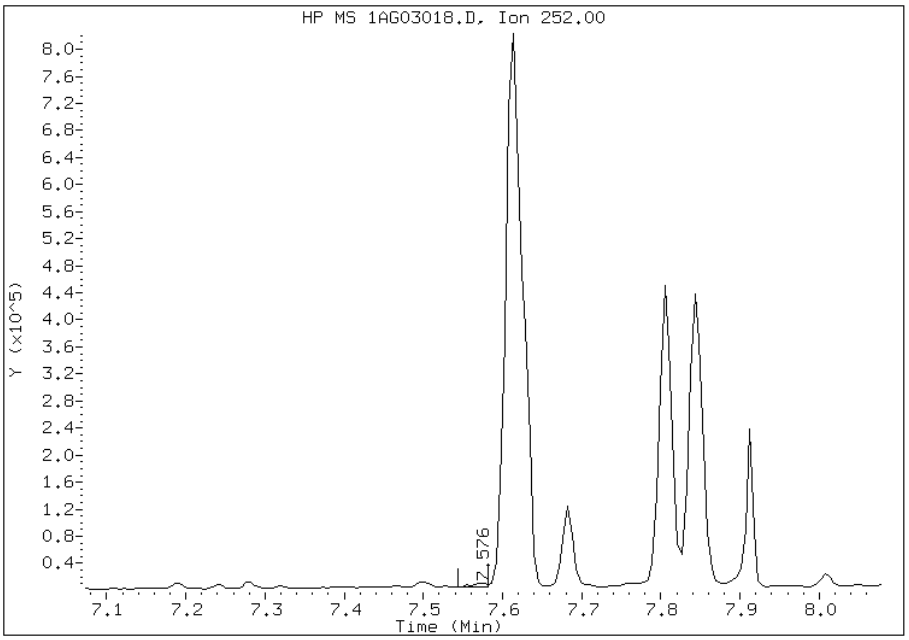
Processing Integration Results

RT: 7.58

Response: 7573

Amount: 0

Conc: 18



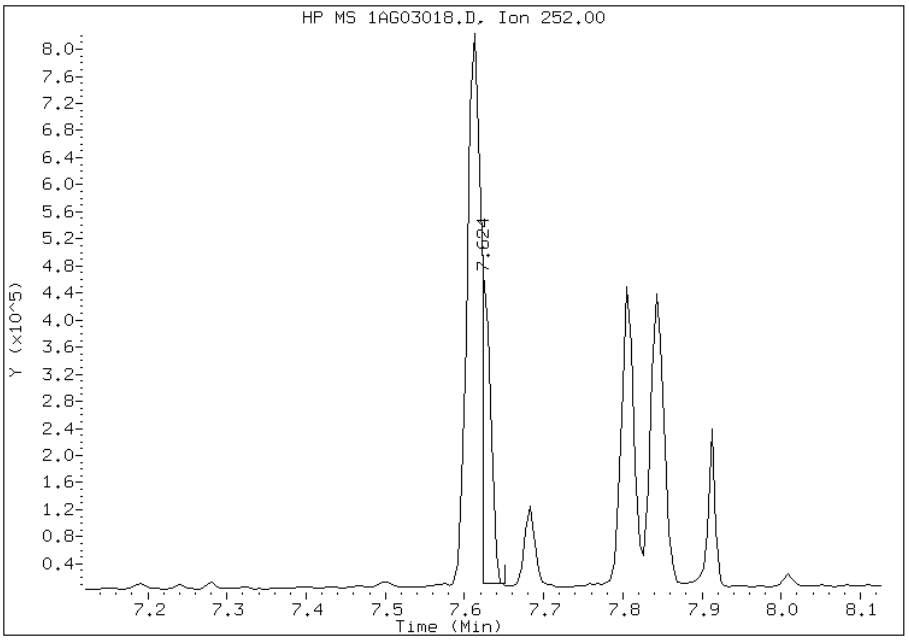
Manual Integration Results

RT: 7.62

Response: 351102

Amount: 2

Conc: 183



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03018.D
Inj. Date and Time: 03-JUL-2013 15:09
Instrument ID: BSMA5973.i
Client ID: CV1363O-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

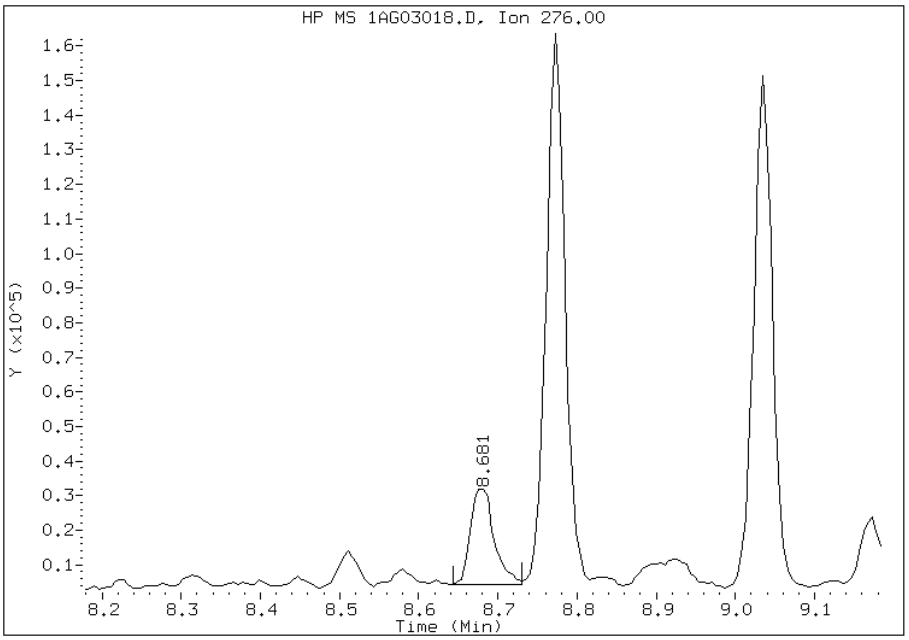
Processing Integration Results

RT: 8.68

Response: 56913

Amount: 1

Conc: 41



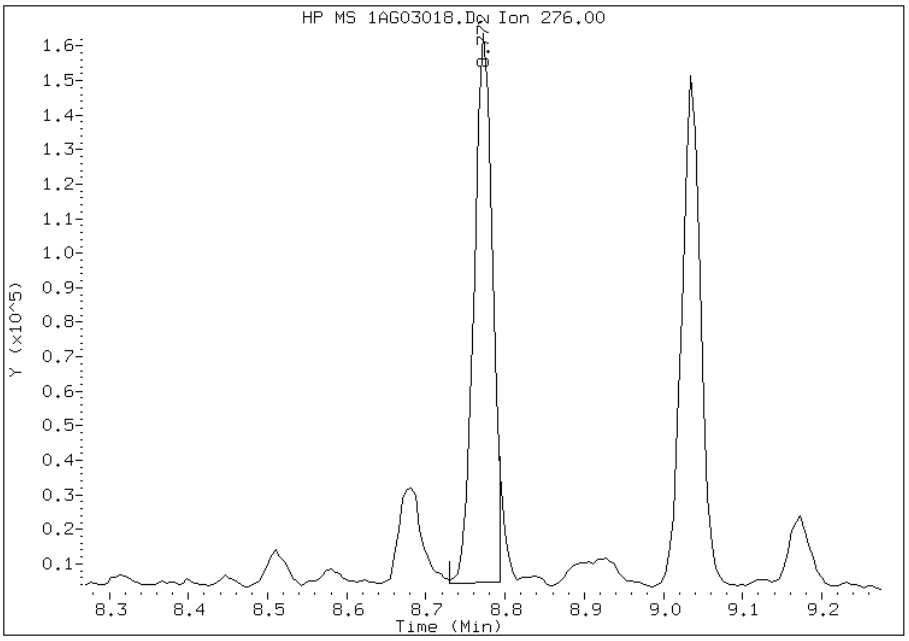
Manual Integration Results

RT: 8.77

Response: 256884

Amount: 2

Conc: 187



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363P-CS | Lab Sample ID: 680-91719-22

Matrix: Solid | Lab File ID: 1AG07021.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 09:30

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 15.00(g) | Date Analyzed: 07/07/2013 18:39

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

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

% Moisture: 12.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	39	J	110	23
208-96-8	Acenaphthylene	88		46	5.7
120-12-7	Anthracene	180		9.6	4.8
56-55-3	Benzo[a]anthracene	540		9.1	4.4
50-32-8	Benzo[a]pyrene	630		12	5.9
205-99-2	Benzo[b]fluoranthene	770		14	6.9
191-24-2	Benzo[g,h,i]perylene	620		23	5.0
207-08-9	Benzo[k]fluoranthene	350		9.1	4.1
218-01-9	Chrysene	740		10	5.1
53-70-3	Dibenz(a,h)anthracene	160		23	4.7
206-44-0	Fluoranthene	1000		23	4.6
86-73-7	Fluorene	34		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	540		23	8.1
90-12-0	1-Methylnaphthalene	74		46	5.0
91-57-6	2-Methylnaphthalene	100		46	8.1
91-20-3	Naphthalene	87		46	5.0
85-01-8	Phenanthrene	470		9.1	4.4
129-00-0	Pyrene	830		23	4.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07021.D
Lab Smp Id: 680-91719-A-22-A Client Smp ID: CV1363P-CS
Inj Date : 07-JUL-2013 18:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-22-a
Misc Info : 680-91719-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.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	15.000	Weight Extracted
M	12.200	% 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	2.685	2.683	(1.000)	2711807	40.0000	
* 7 Acenaphthene-d10	164	3.716	3.714	(1.000)	1611315	40.0000	
* 11 Phenanthrene-d10	188	4.693	4.692	(1.000)	2300710	40.0000	
$ 15 o-Terphenyl	230	4.987	4.986	(1.063)	219353	6.27423	476.4057
* 19 Chrysene-d12	240	6.761	6.748	(1.000)	2554758	40.0000	
* 24 Perylene-d12	264	7.872	7.849	(1.000)	3583805	40.0000	
2 Naphthalene	128	2.696	2.694	(1.004)	69938	1.14147	86.6725
3 2-Methylnaphthalene	141	3.102	3.100	(1.155)	46154	1.32034	100.2539
4 1-Methylnaphthalene	142	3.155	3.153	(1.175)	39927	0.97818	74.2737
6 Acenaphthylene	152	3.630	3.629	(0.977)	83495	1.16162	88.2026
8 Acenaphthene	154	3.732	3.735	(1.004)	19382	0.51457	39.0717
10 Fluorene	166	4.058	4.056	(1.092)	22783	0.45207	34.3261
12 Phenanthrene	178	4.710	4.708	(1.003)	366008	6.25068	474.6174
13 Anthracene	178	4.742	4.740	(1.010)	147535	2.41624	183.4663

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.596	5.589	(1.192)	959571	13.6187	1034.0726
17 Pyrene	202	5.767	5.760	(0.853)	931989	10.9581	832.0564
18 Benzo(a)anthracene	228	6.750	6.732	(0.998)	580152	7.05002	535.3116
20 Chrysene	228	6.777	6.764	(1.002)	677087	9.78343	742.8606
21 Benzo(b)fluoranthene	252	7.589	7.566	(0.964)	1037280	10.1676	772.0279(M)
22 Benzo(k)fluoranthene	252	7.594	7.587	(0.965)	484916	4.60349	349.5452(QM)
23 Benzo(a)pyrene	252	7.819	7.795	(0.993)	788014	8.35243	634.2042
25 Indeno(1,2,3-cd)pyrene	276	8.732	8.693	(1.109)	580202	7.05293	535.5327(M)
26 Dibenzo(a,h)anthracene	278	8.748	8.720	(1.111)	165422	2.12679	161.4880
27 Benzo(g,h,i)perylene	276	8.994	8.944	(1.143)	632340	8.10741	615.6000

QC Flag Legend

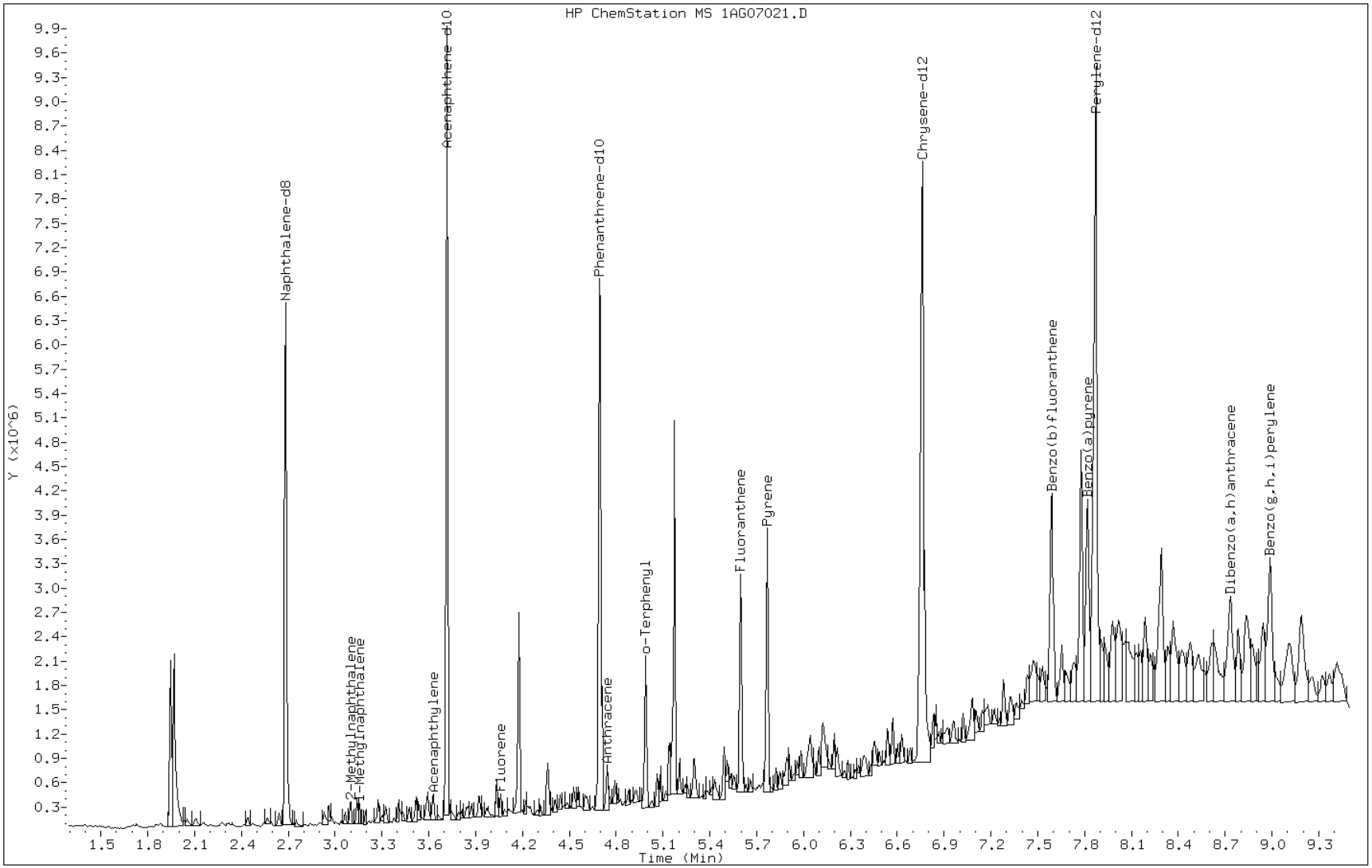
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC



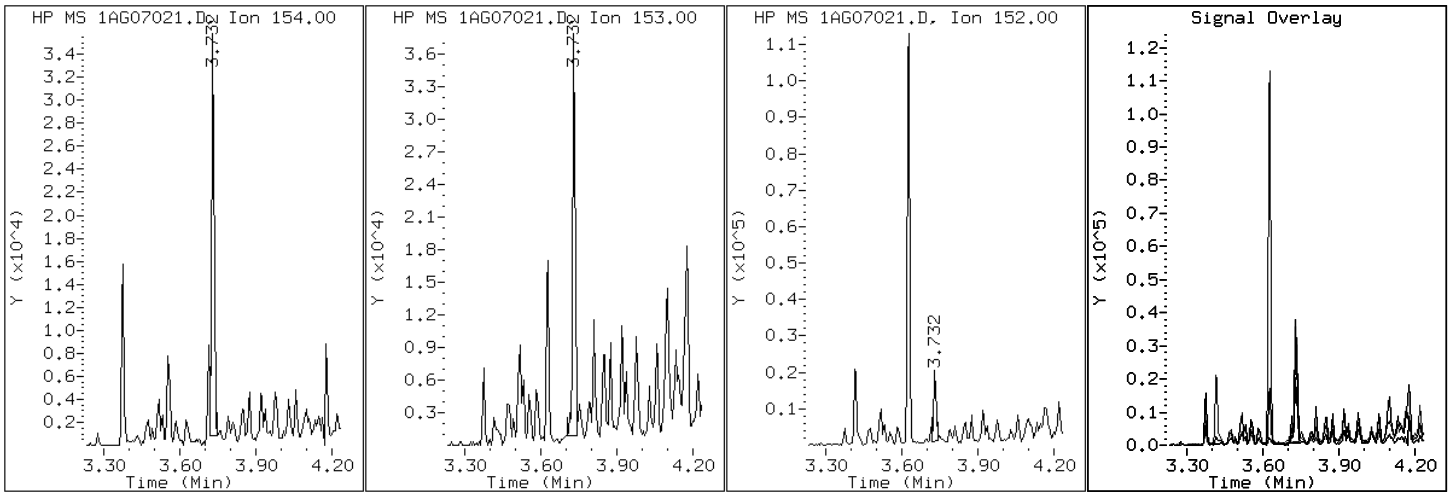
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

8 Acenaphthene



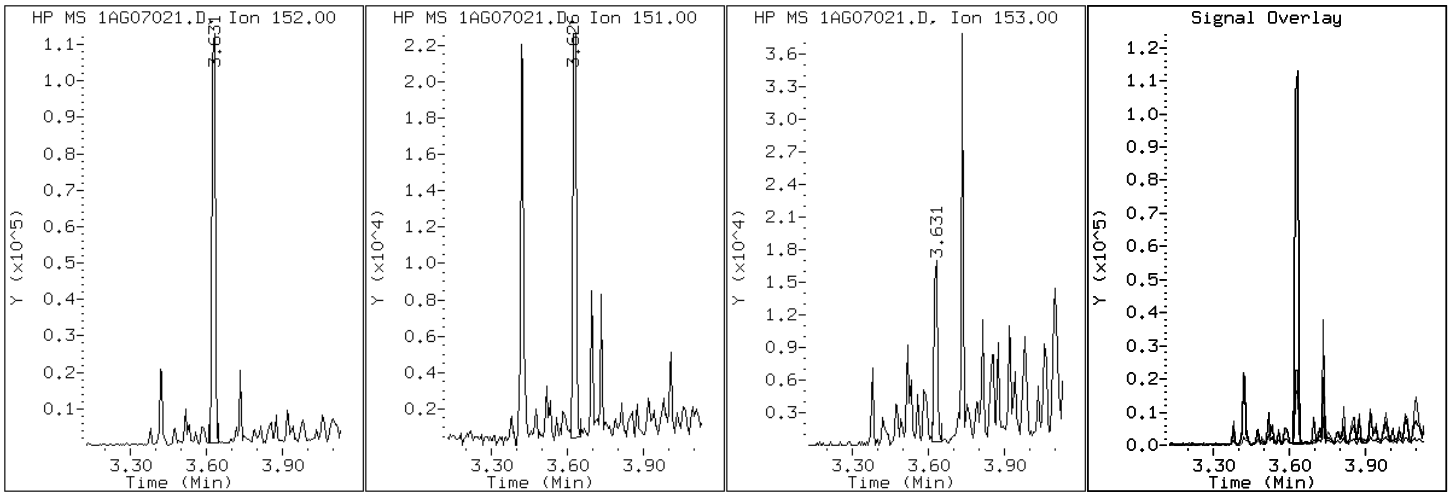
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

6 Acenaphthylene



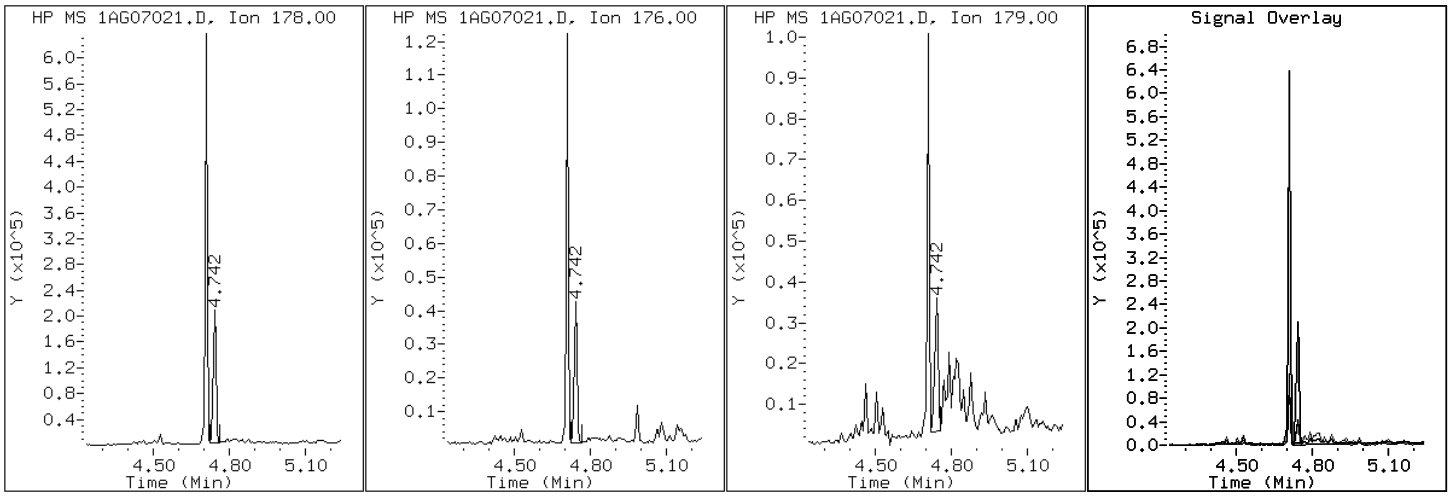
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

13 Anthracene



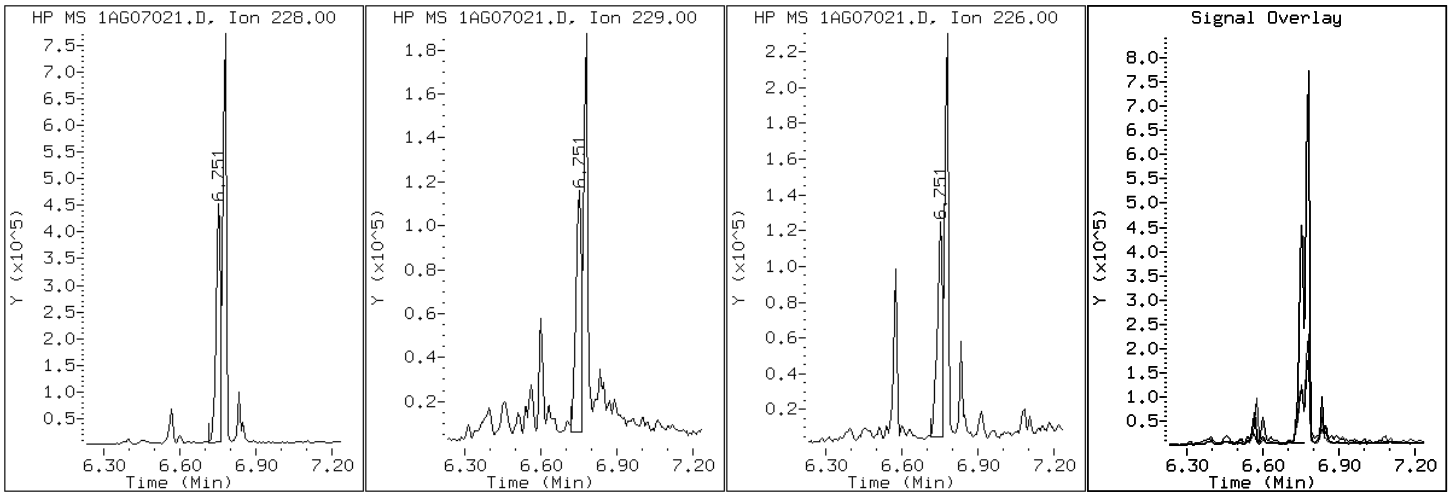
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

18 Benzo(a)anthracene



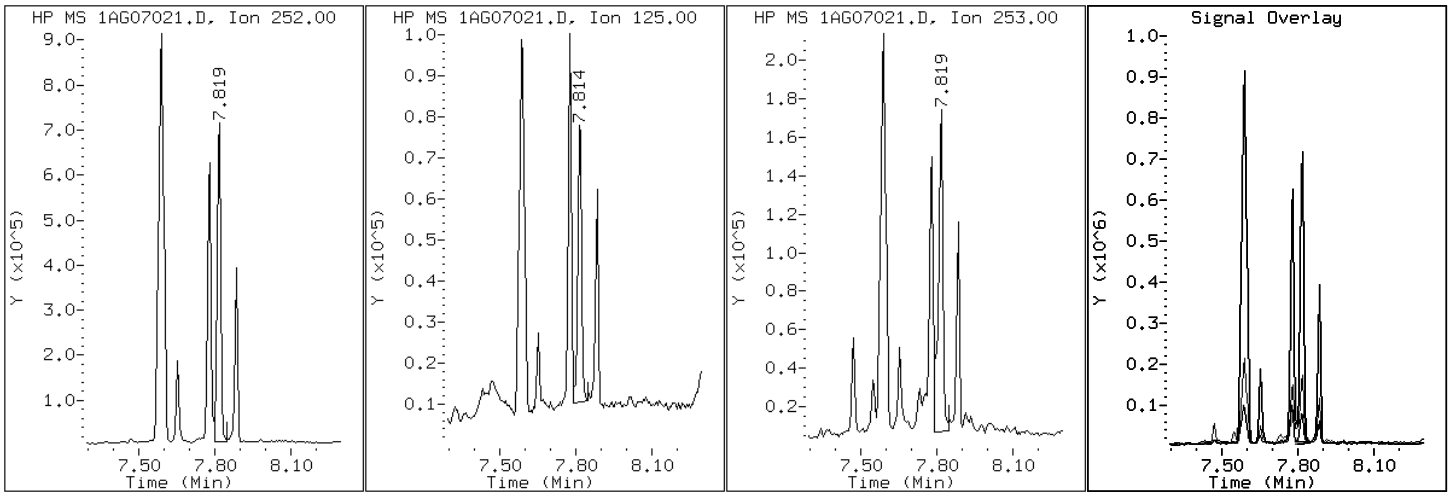
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

23 Benzo(a)pyrene



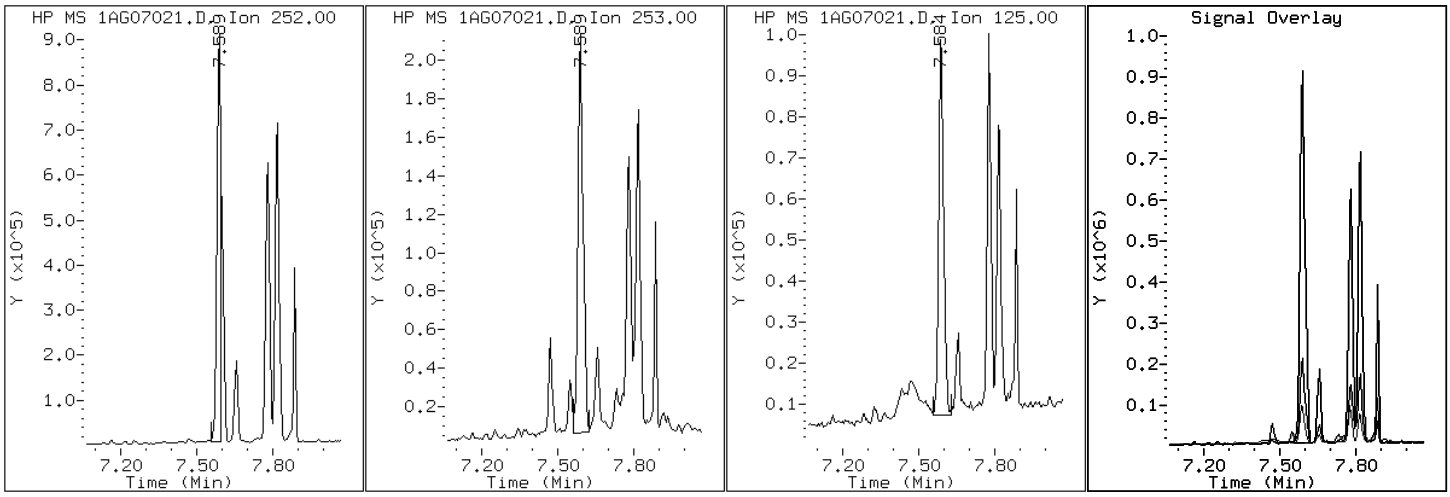
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

21 Benzo(b)fluoranthene



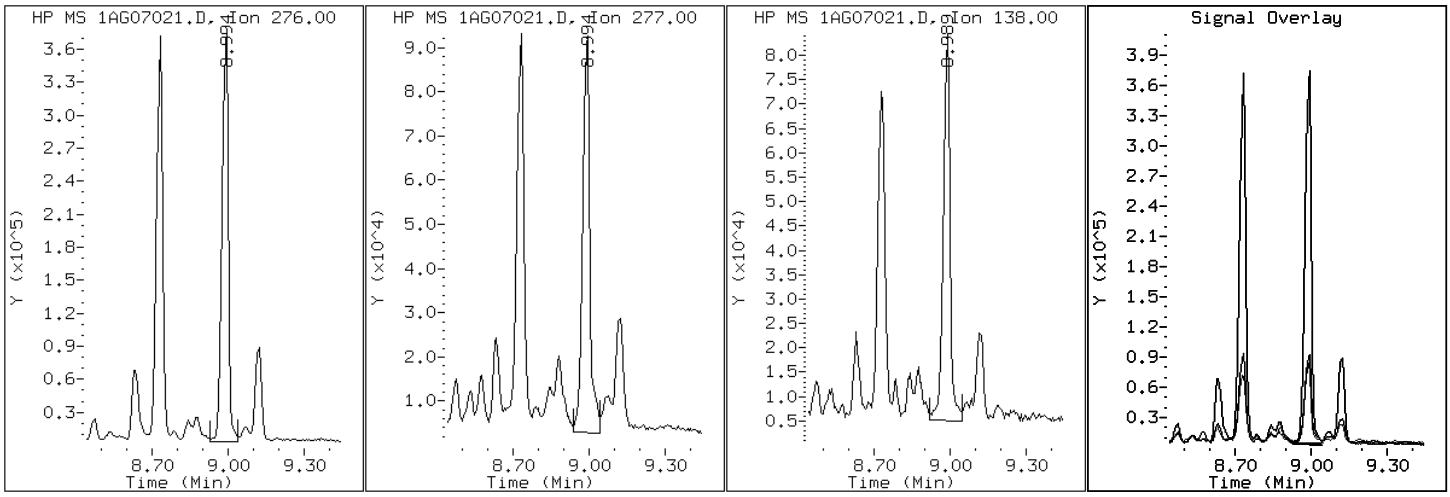
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

27 Benzo(g,h,i)perylene



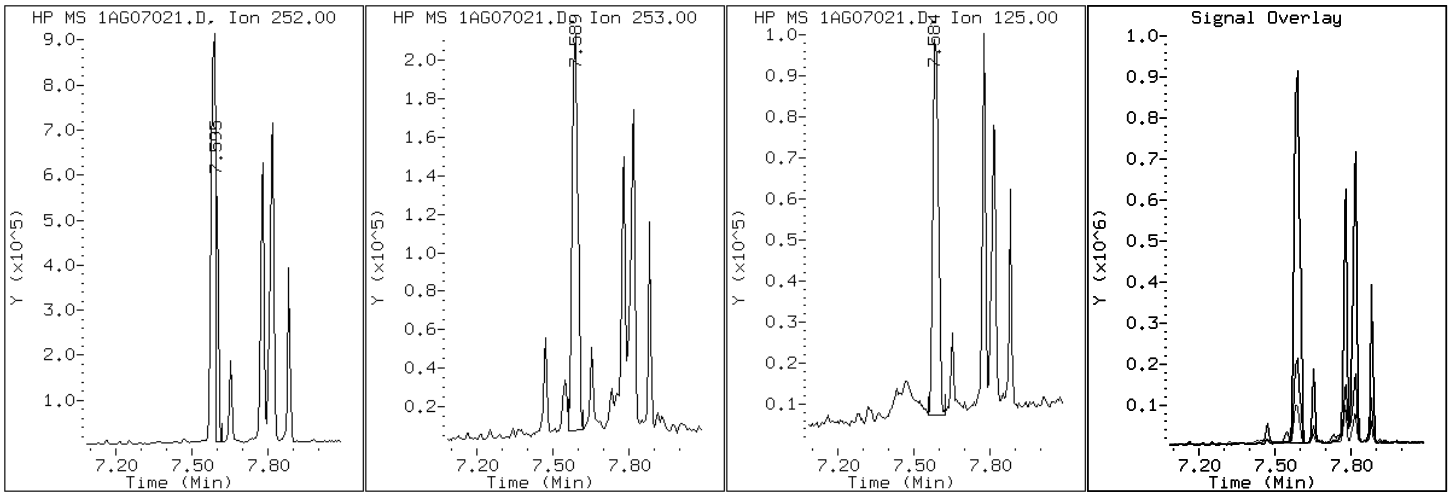
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

22 Benzo(k)fluoranthene



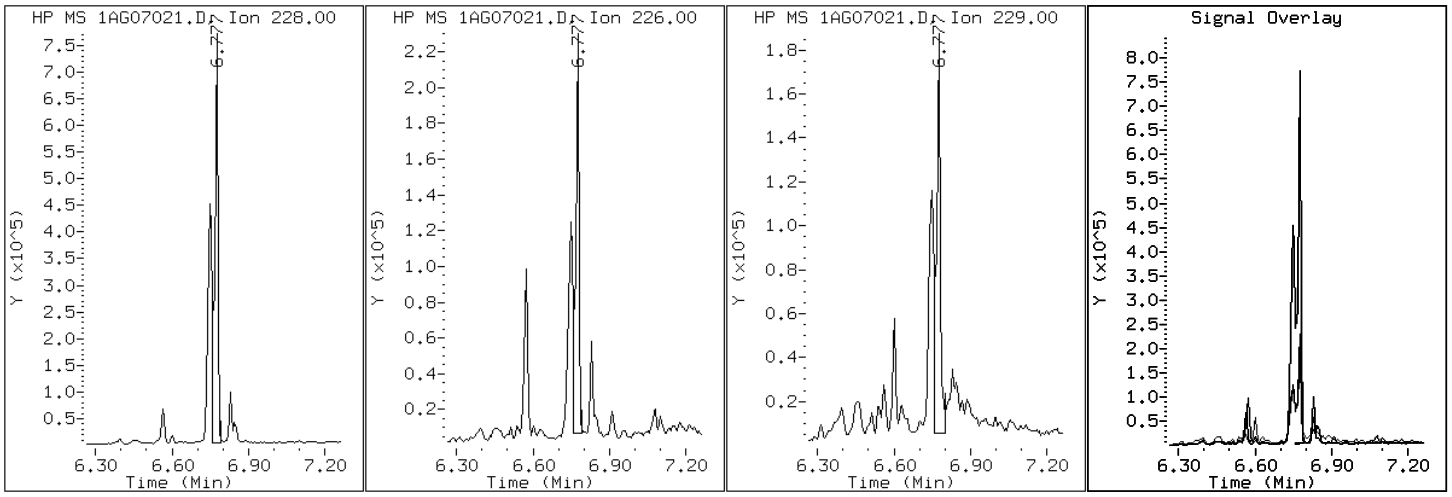
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

20 Chrysene



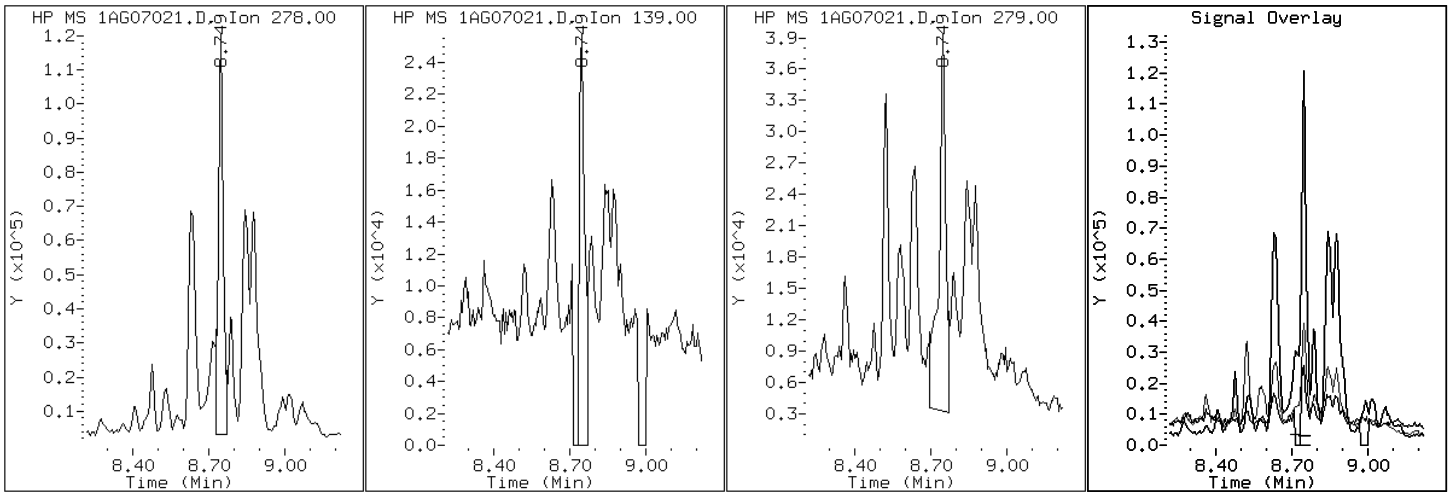
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

26 Dibenzo(a,h)anthracene



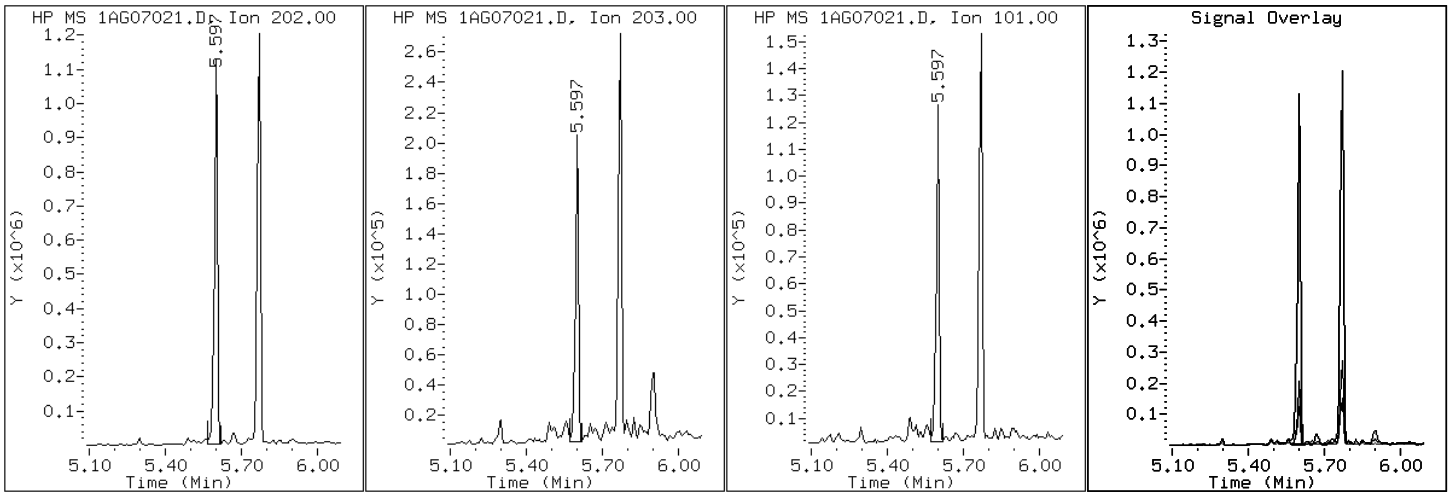
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

16 Fluoranthene



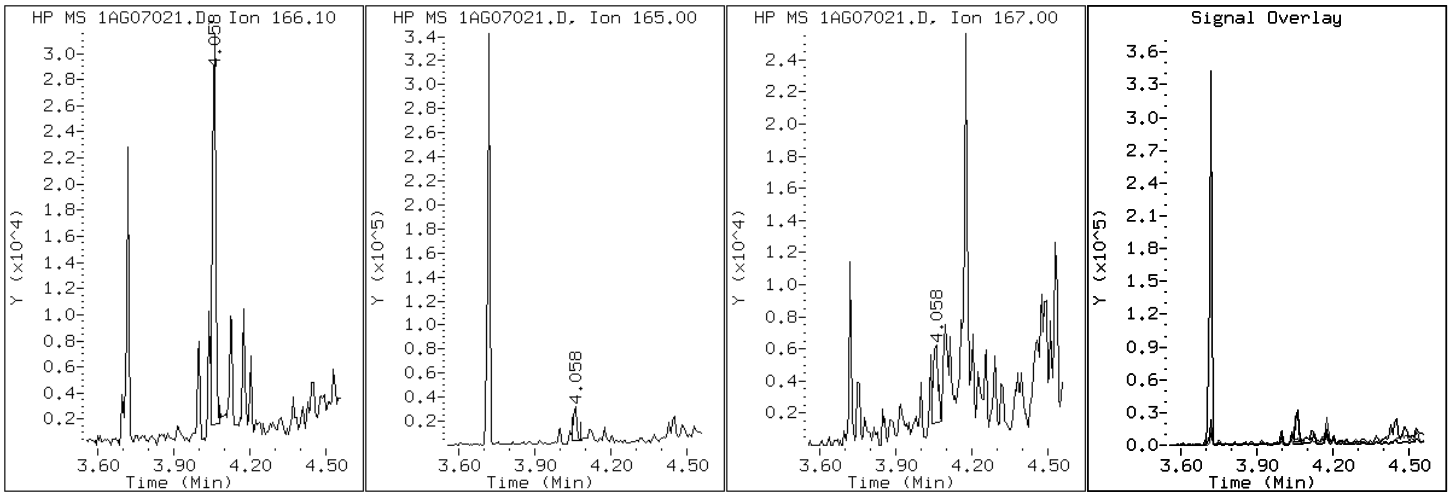
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

10 Fluorene



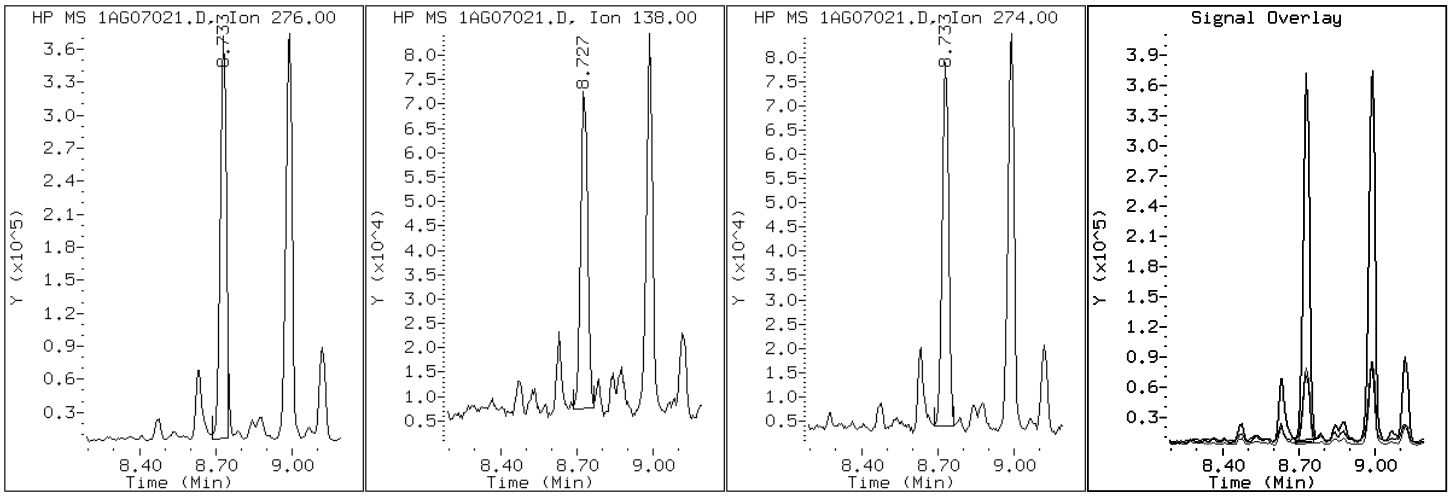
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

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



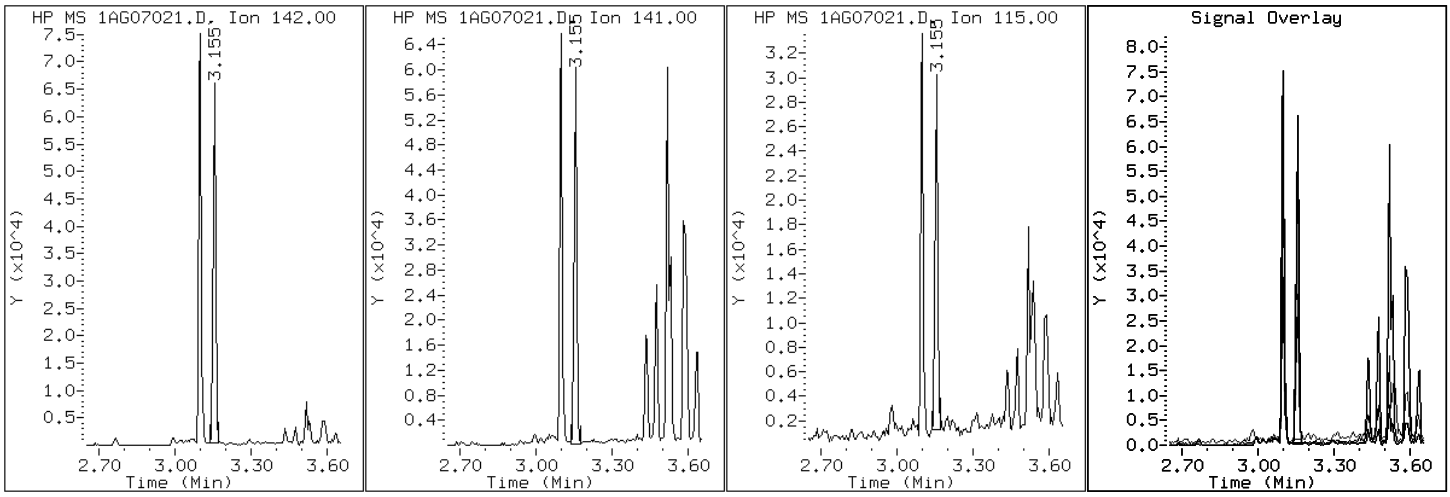
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

4 1-Methylnaphthalene



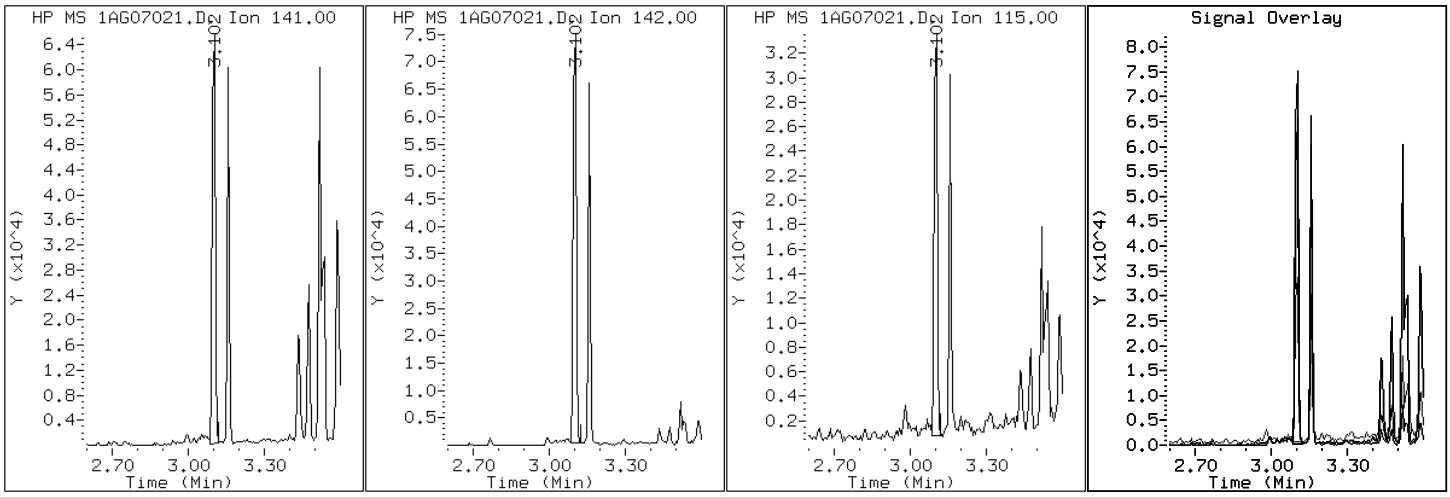
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

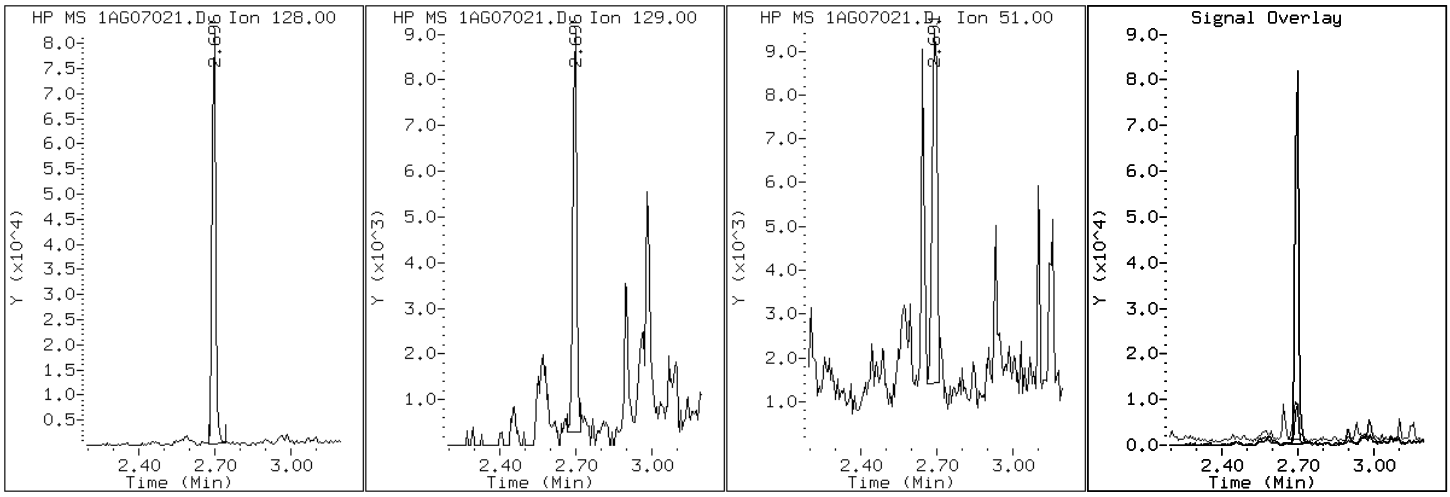
Client ID: CV1363P-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a

Operator: SCC

2 Naphthalene



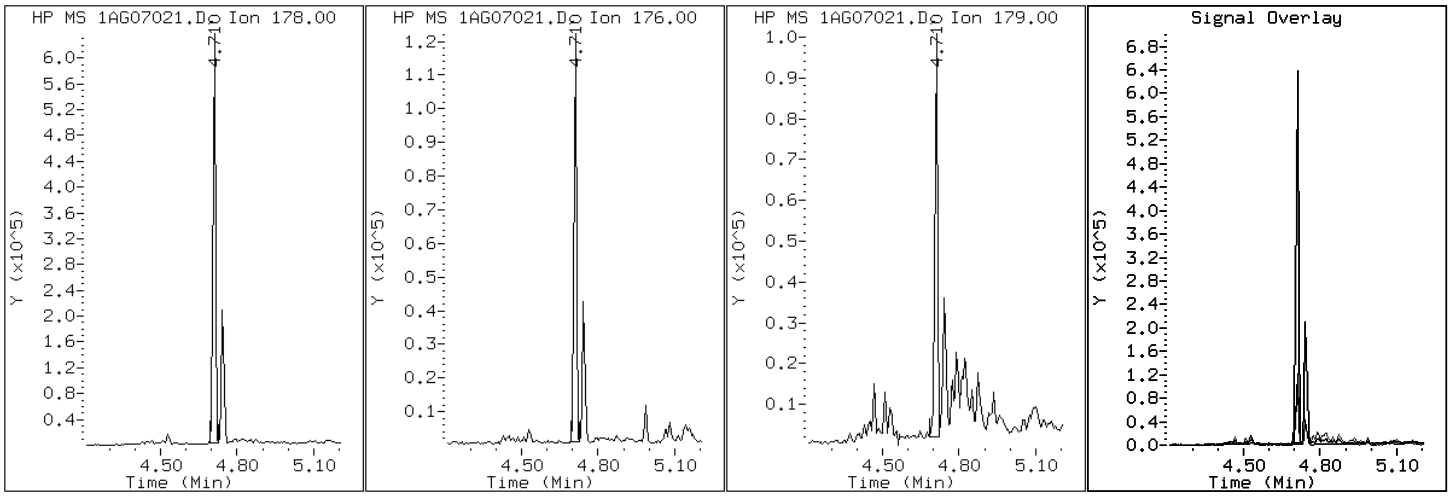
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

12 Phenanthrene



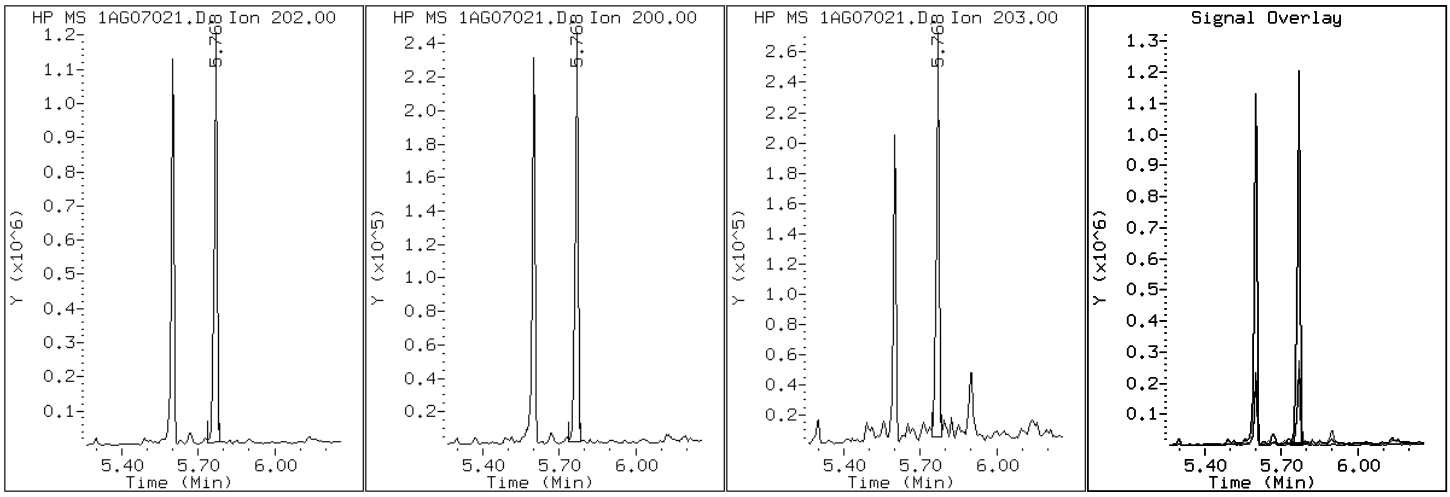
Data File: 1AG07021.D

Date: 07-JUL-2013 18:39

Client ID: CV1363P-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-22-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07021.D
Inj. Date and Time: 07-JUL-2013 18:39
Instrument ID: BSMA5973.i
Client ID: CV1363P-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

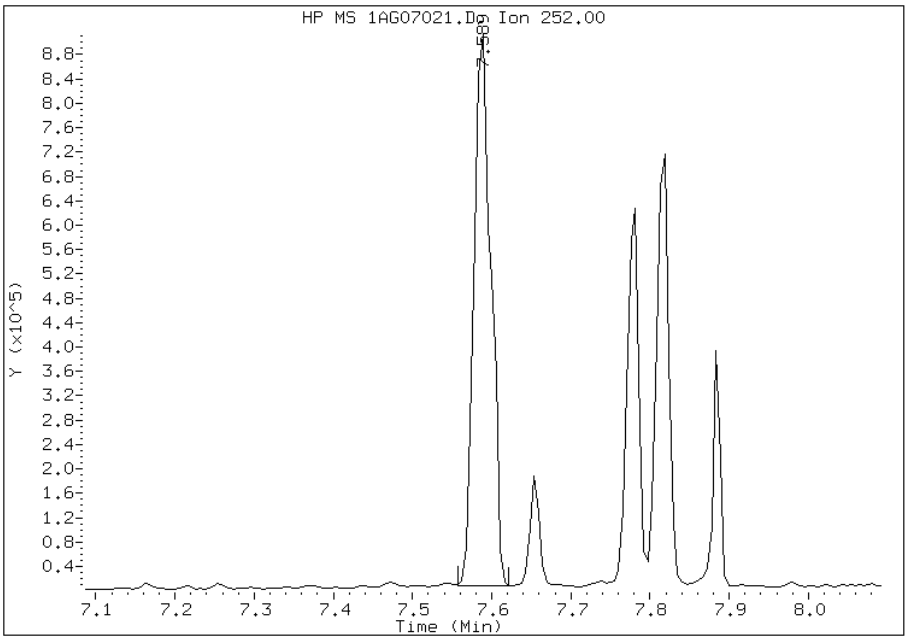
Processing Integration Results

RT: 7.59

Response: 1331822

Amount: 13

Conc: 991



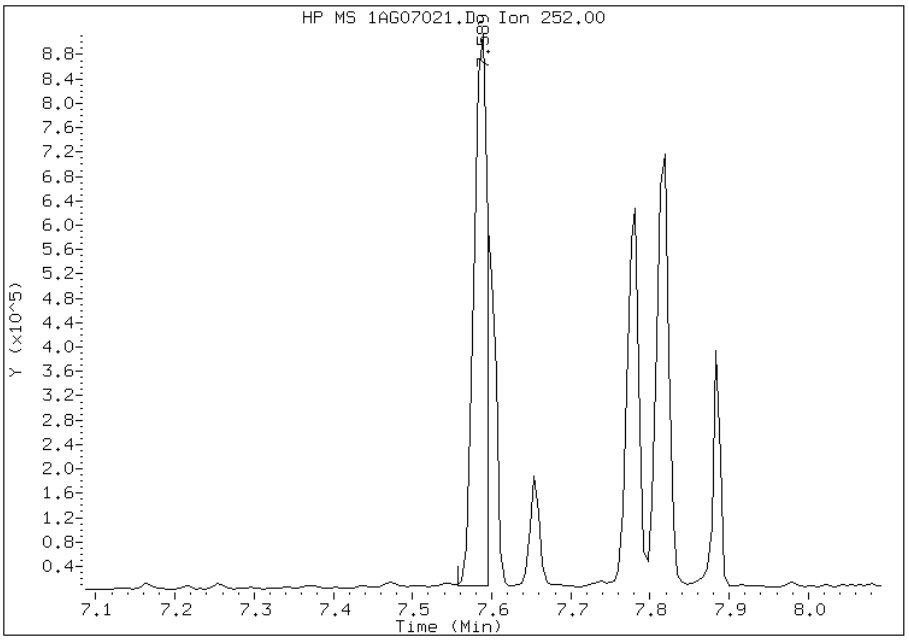
Manual Integration Results

RT: 7.59

Response: 1037280

Amount: 10

Conc: 772



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:05
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07021.D
Inj. Date and Time: 07-JUL-2013 18:39
Instrument ID: BSMA5973.i
Client ID: CV1363P-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

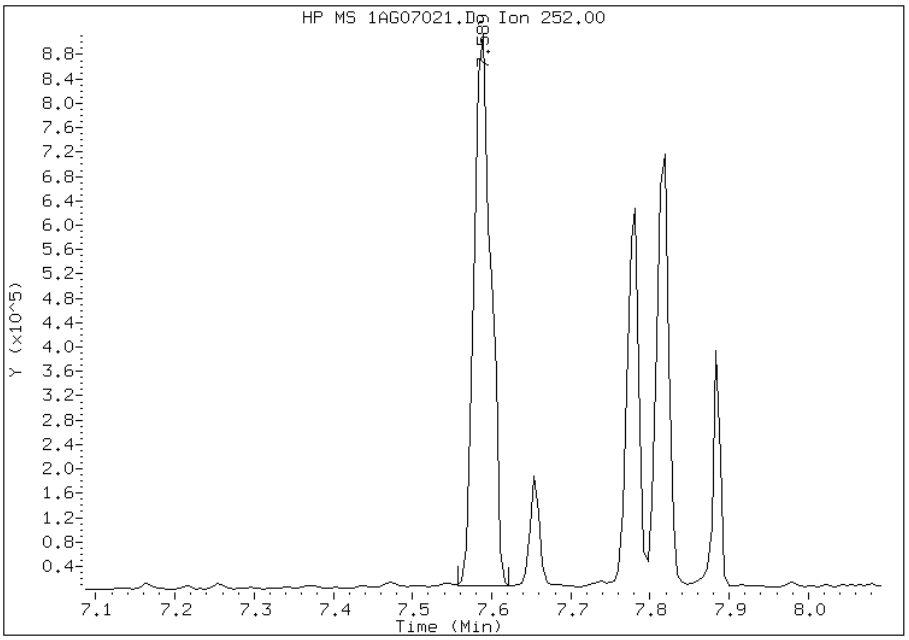
Processing Integration Results

RT: 7.59

Response: 1332154

Amount: 13

Conc: 960



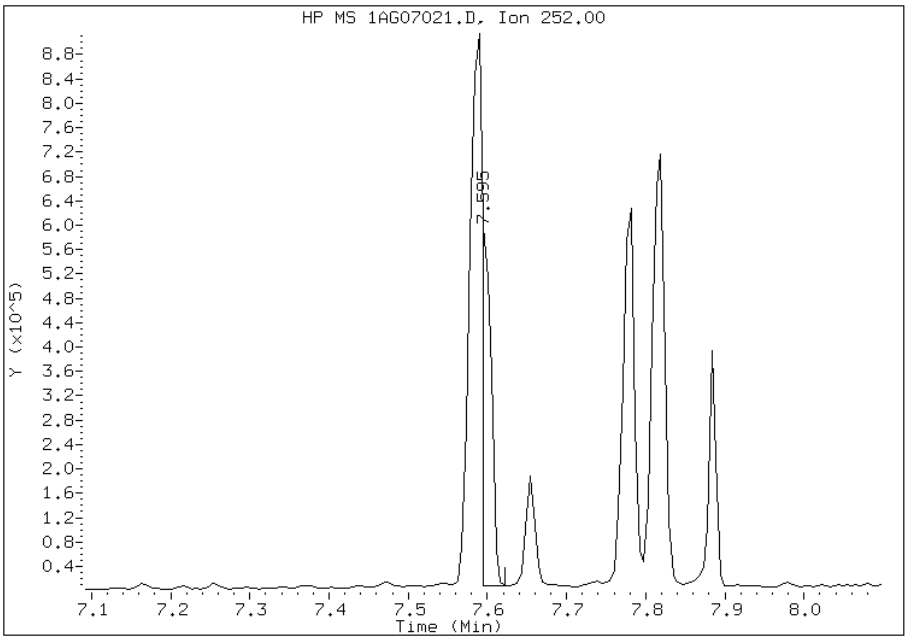
Manual Integration Results

RT: 7.59

Response: 484916

Amount: 5

Conc: 350



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07021.D
Inj. Date and Time: 07-JUL-2013 18:39
Instrument ID: BSMA5973.i
Client ID: CV1363P-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

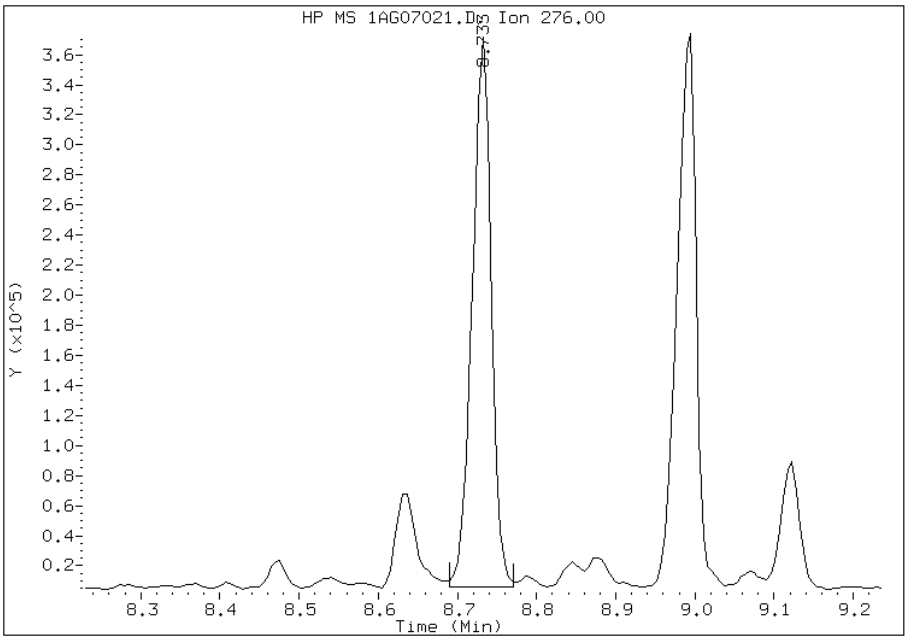
Processing Integration Results

RT: 8.73

Response: 599809

Amount: 7

Conc: 554



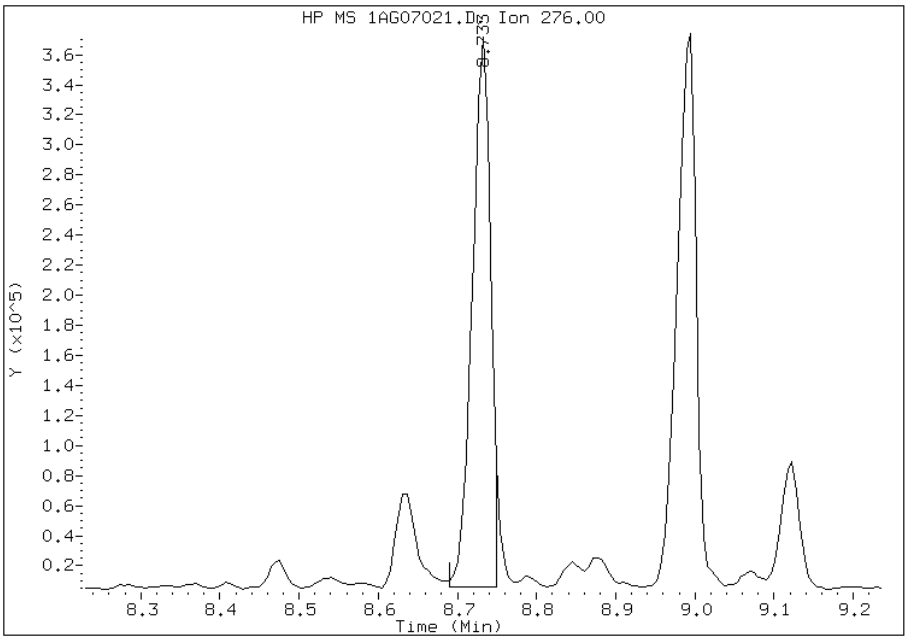
Manual Integration Results

RT: 8.73

Response: 580202

Amount: 7

Conc: 536



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363Q-CS | Lab Sample ID: 680-91719-23

Matrix: Solid | Lab File ID: 1AG07022.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 09:49

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 15.06(g) | Date Analyzed: 07/07/2013 18:54

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

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

% Moisture: 13.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	80		46	5.8
120-12-7	Anthracene	120		9.7	4.8
56-55-3	Benzo[a]anthracene	330		9.2	4.5
50-32-8	Benzo[a]pyrene	300		12	6.0
205-99-2	Benzo[b]fluoranthene	480		14	7.0
191-24-2	Benzo[g,h,i]perylene	310		23	5.1
207-08-9	Benzo[k]fluoranthene	170		9.2	4.2
218-01-9	Chrysene	460		10	5.2
53-70-3	Dibenz(a,h)anthracene	77		23	4.7
206-44-0	Fluoranthene	690		23	4.6
86-73-7	Fluorene	22	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	270		23	8.2
90-12-0	1-Methylnaphthalene	89		46	5.1
91-57-6	2-Methylnaphthalene	93		46	8.2
91-20-3	Naphthalene	75		46	5.1
85-01-8	Phenanthrene	410		9.2	4.5
129-00-0	Pyrene	460		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07022.D
Lab Smp Id: 680-91719-A-23-A Client Smp ID: CV1363Q-CS
Inj Date : 07-JUL-2013 18:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-23-a
Misc Info : 680-91719-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.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	15.060	Weight Extracted
M	13.666	% 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	2.686	2.683	(1.000)	2589716	40.0000	
* 7 Acenaphthene-d10	164	3.717	3.714	(1.000)	1556980	40.0000	
* 11 Phenanthrene-d10	188	4.700	4.692	(1.000)	2304107	40.0000	
$ 15 o-Terphenyl	230	4.988	4.986	(1.061)	183642	5.24503	403.4048
* 19 Chrysene-d12	240	6.762	6.748	(1.000)	2595103	40.0000	
* 24 Perylene-d12	264	7.873	7.849	(1.000)	3590829	40.0000	
2 Naphthalene	128	2.697	2.694	(1.004)	57041	0.97487	74.9788
3 2-Methylnaphthalene	141	3.103	3.100	(1.155)	40268	1.20626	92.7758
4 1-Methylnaphthalene	142	3.156	3.153	(1.175)	45233	1.16042	89.2497
6 Acenaphthylene	152	3.626	3.629	(0.976)	72631	1.04574	80.4298
10 Fluorene	166	4.059	4.056	(1.092)	13962	0.28671	22.0513
12 Phenanthrene	178	4.711	4.708	(1.002)	308941	5.26831	405.1952
13 Anthracene	178	4.748	4.740	(1.010)	95663	1.56440	120.3208
16 Fluoranthene	202	5.597	5.589	(1.191)	631585	8.95053	688.4008

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.768	5.760	(0.853)	519480	6.01298	462.4688
18 Benzo(a)anthracene	228	6.757	6.732	(0.999)	366266	4.34241	333.9826
20 Chrysene	228	6.778	6.764	(1.002)	419525	5.96760	458.9785
21 Benzo(b)fluoranthene	252	7.585	7.566	(0.963)	631392	6.17688	475.0750(M)
22 Benzo(k)fluoranthene	252	7.601	7.587	(0.965)	235022	2.22679	171.2661(QM)
23 Benzo(a)pyrene	252	7.814	7.795	(0.993)	374849	3.96538	304.9844
25 Indeno(1,2,3-cd)pyrene	276	8.728	8.693	(1.109)	285287	3.46116	266.2042(M)
26 Dibenzo(a,h)anthracene	278	8.749	8.720	(1.111)	78213	1.00360	77.1884
27 Benzo(g,h,i)perylene	276	8.984	8.944	(1.141)	313104	4.00654	308.1503

QC Flag Legend

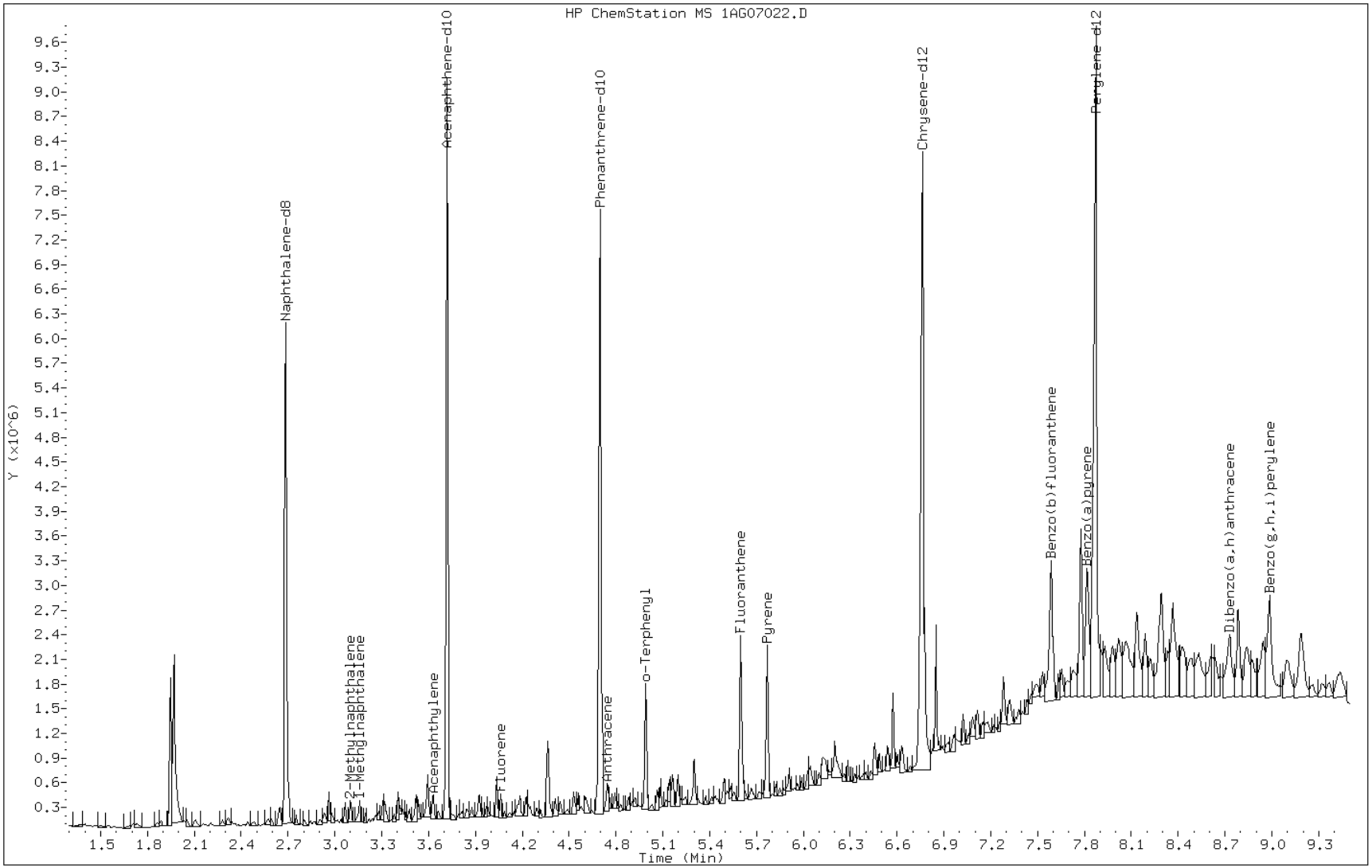
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC



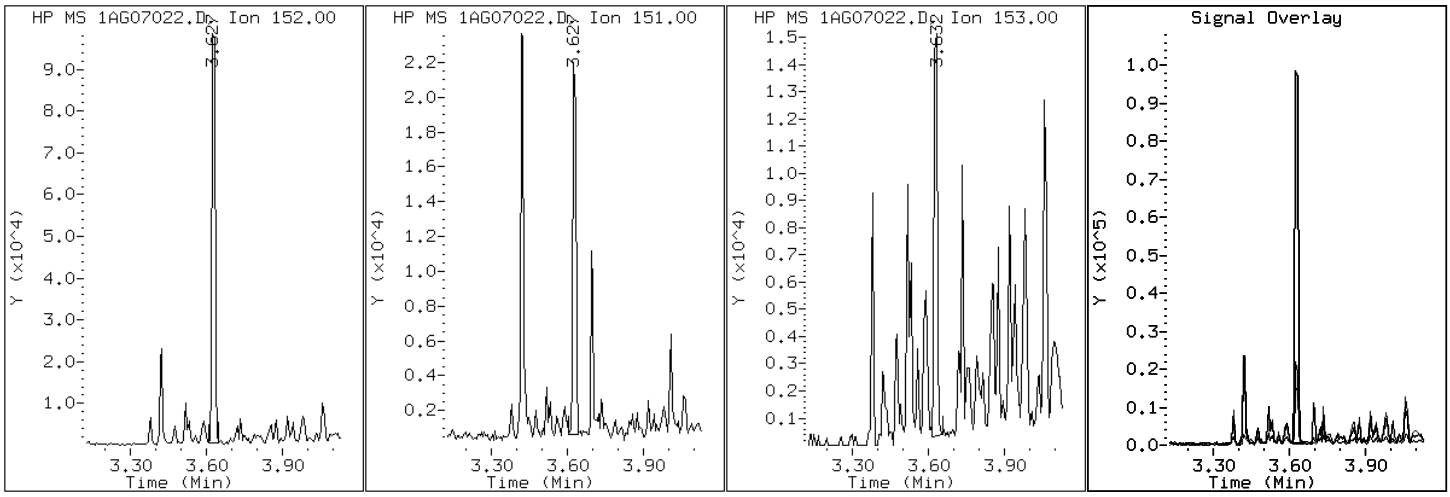
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

6 Acenaphthylene



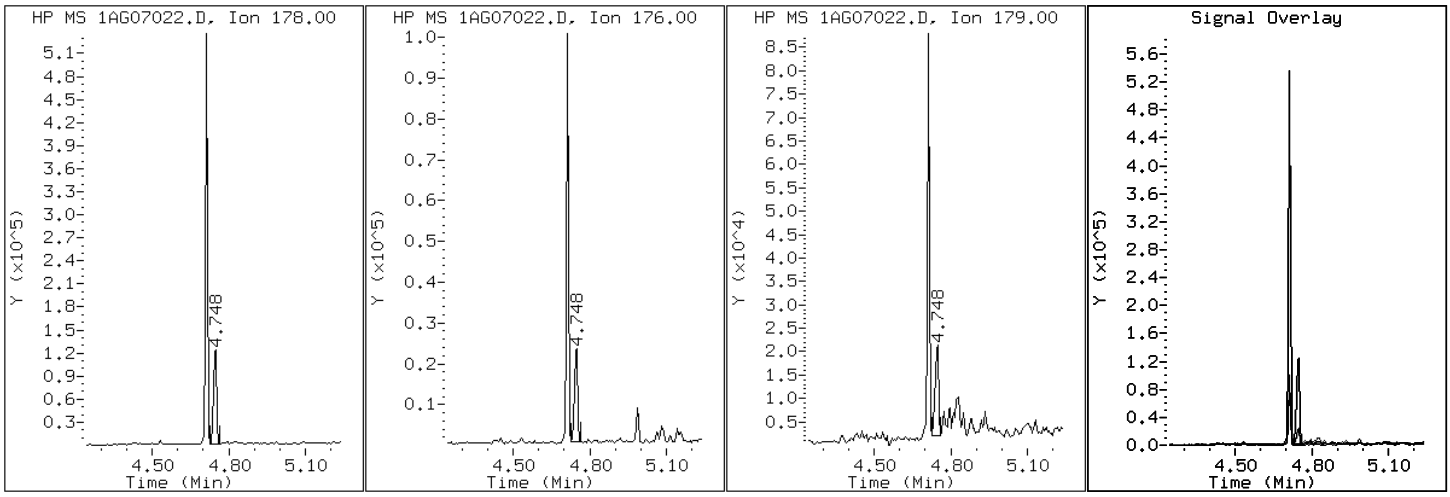
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

13 Anthracene



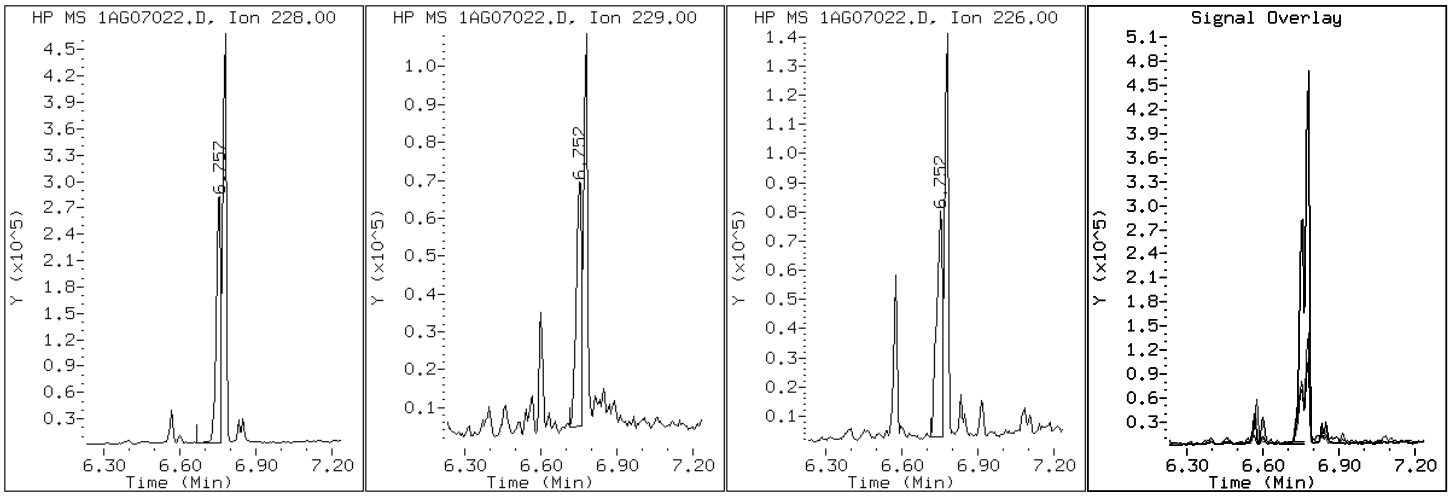
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

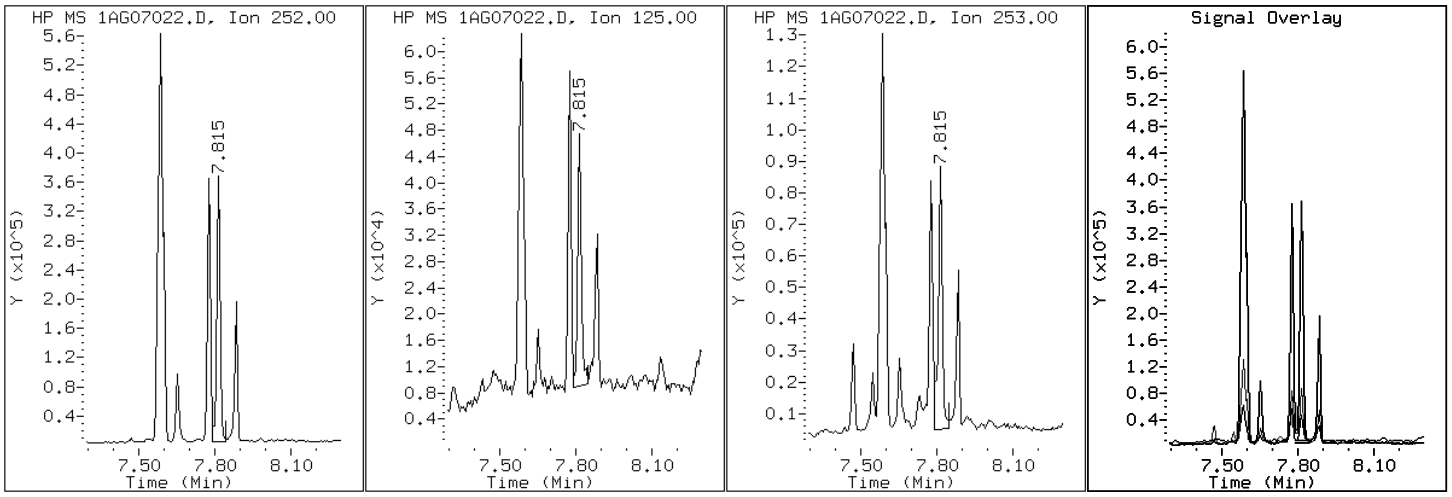
Client ID: CV1363Q-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a

Operator: SCC

23 Benzo(a)pyrene



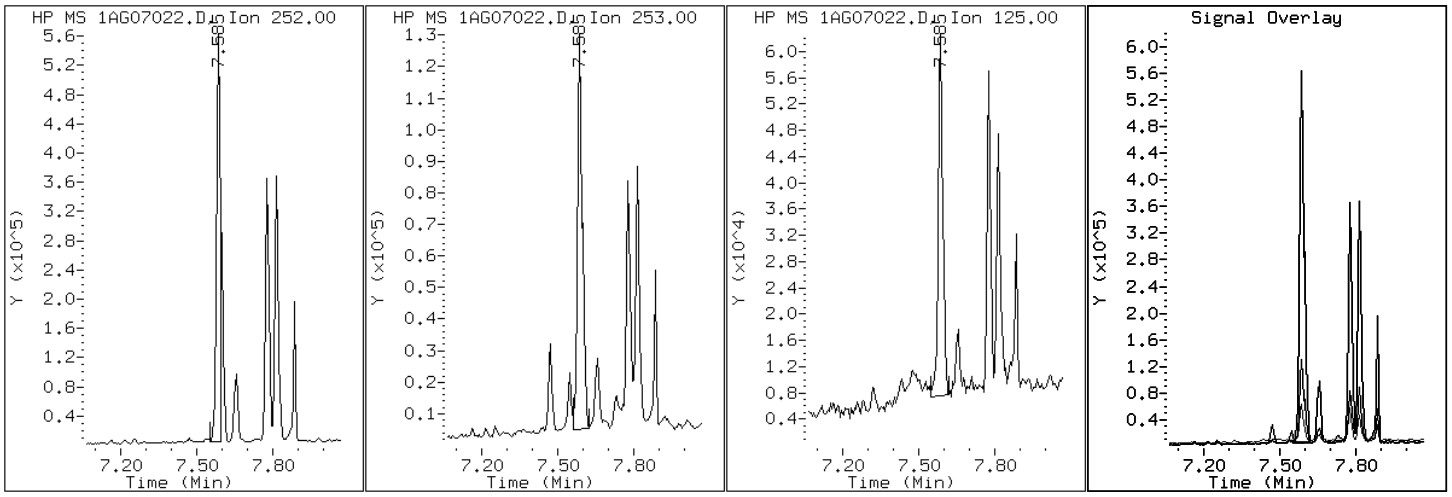
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

21 Benzo(b)fluoranthene



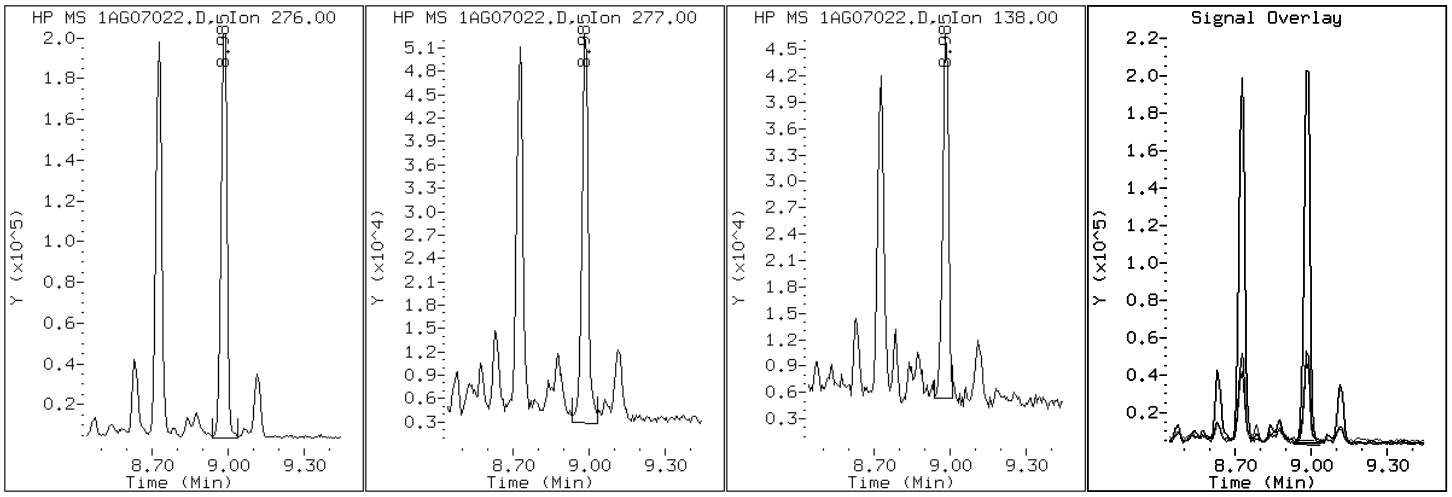
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

27 Benzo(g,h,i)perylene



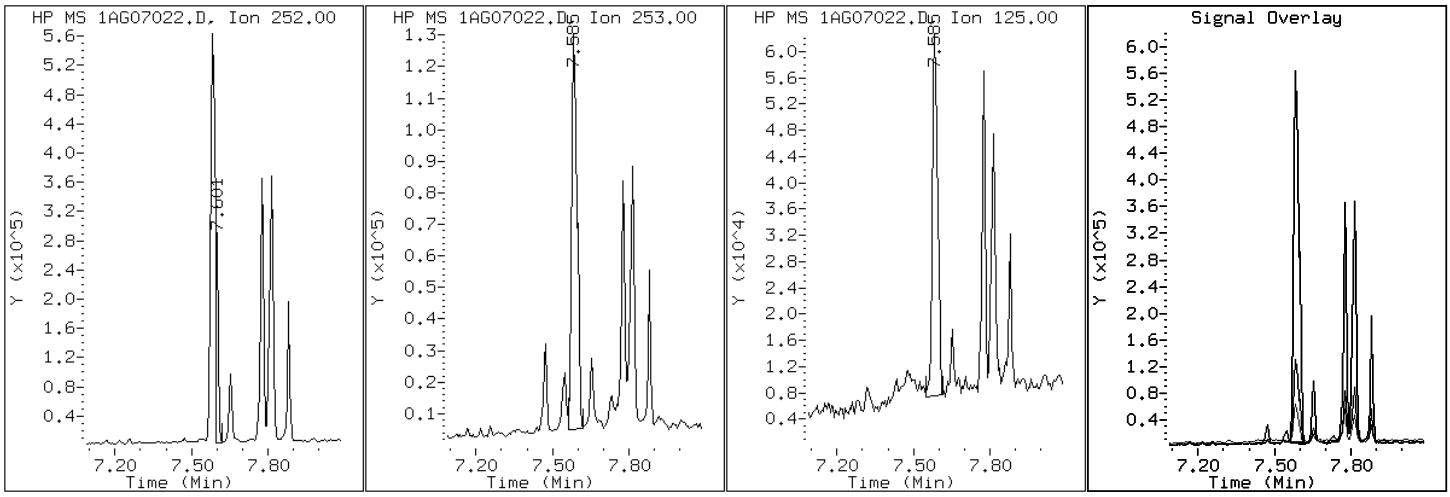
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

22 Benzo(k)fluoranthene



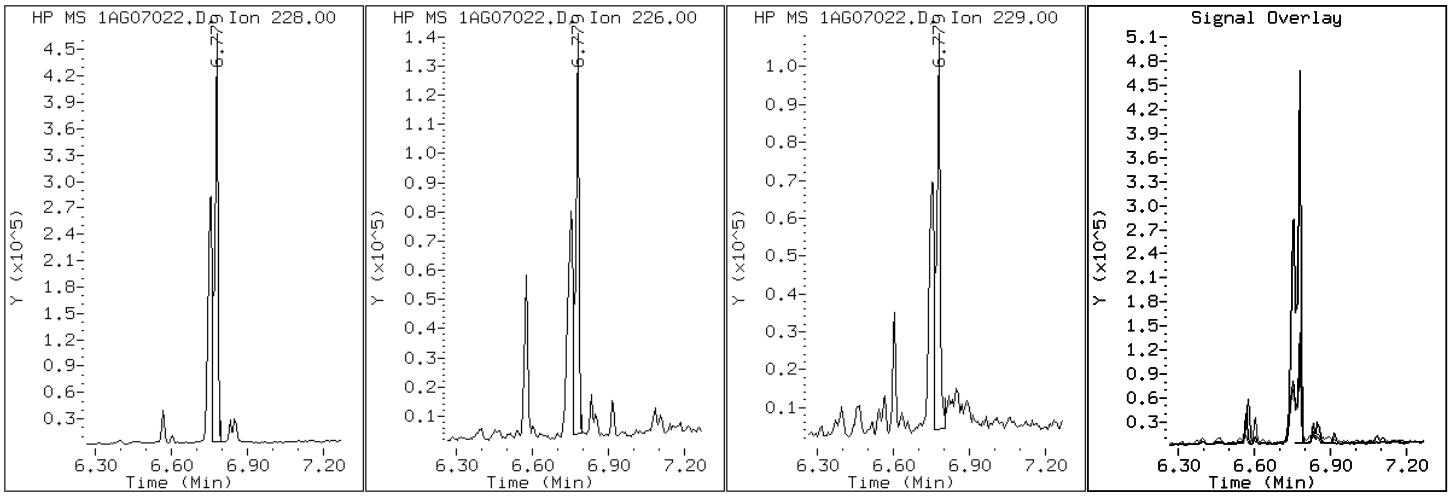
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

20 Chrysene



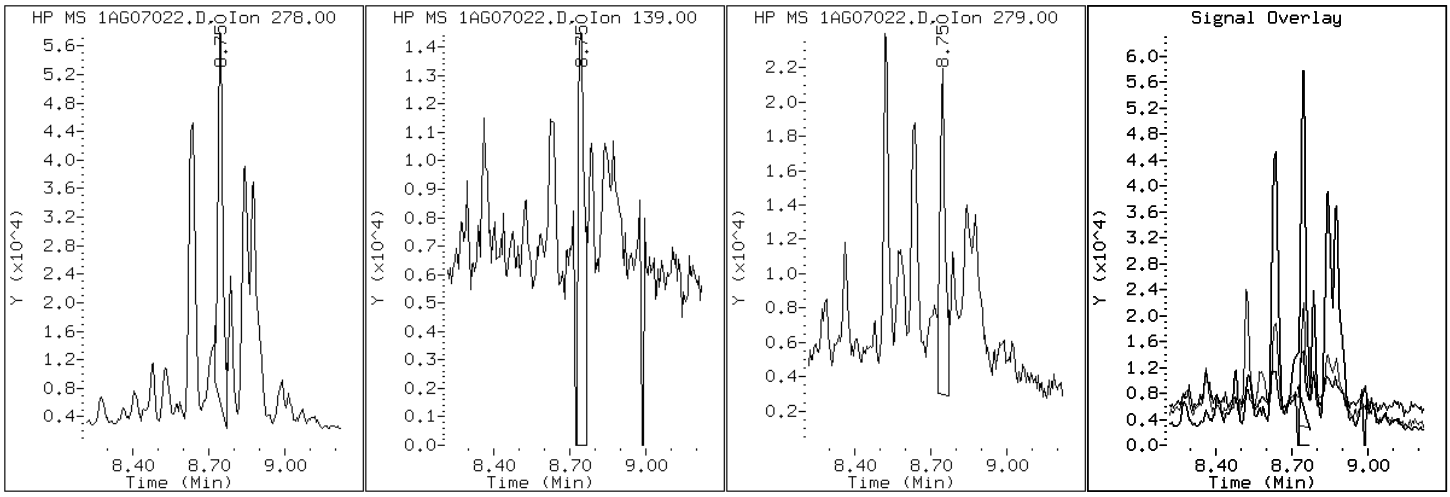
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

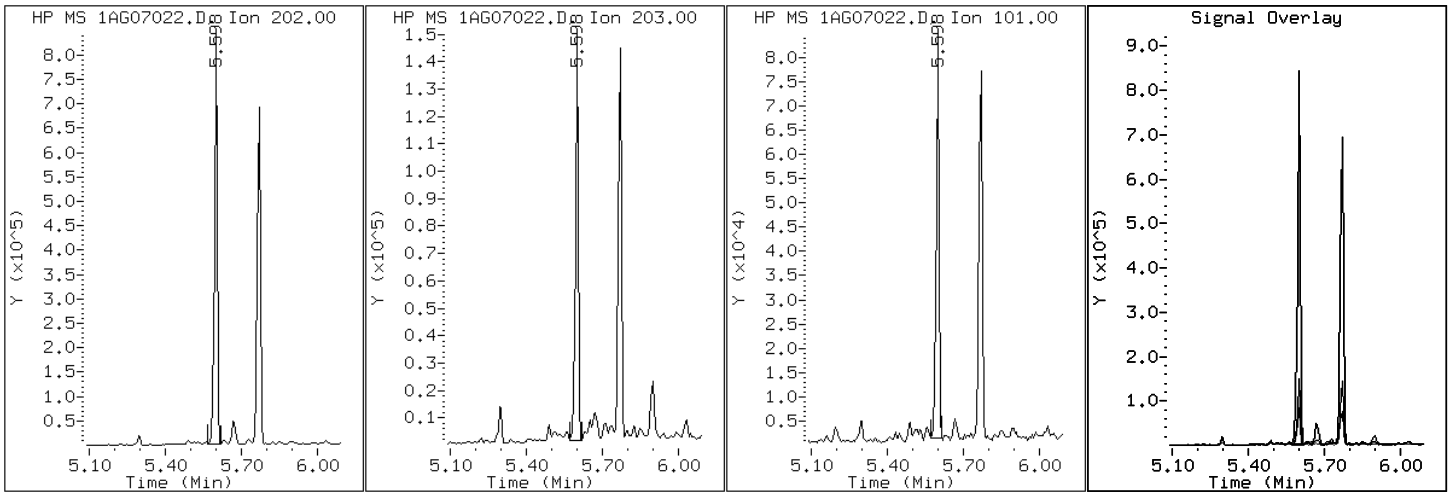
Client ID: CV1363Q-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a

Operator: SCC

16 Fluoranthene



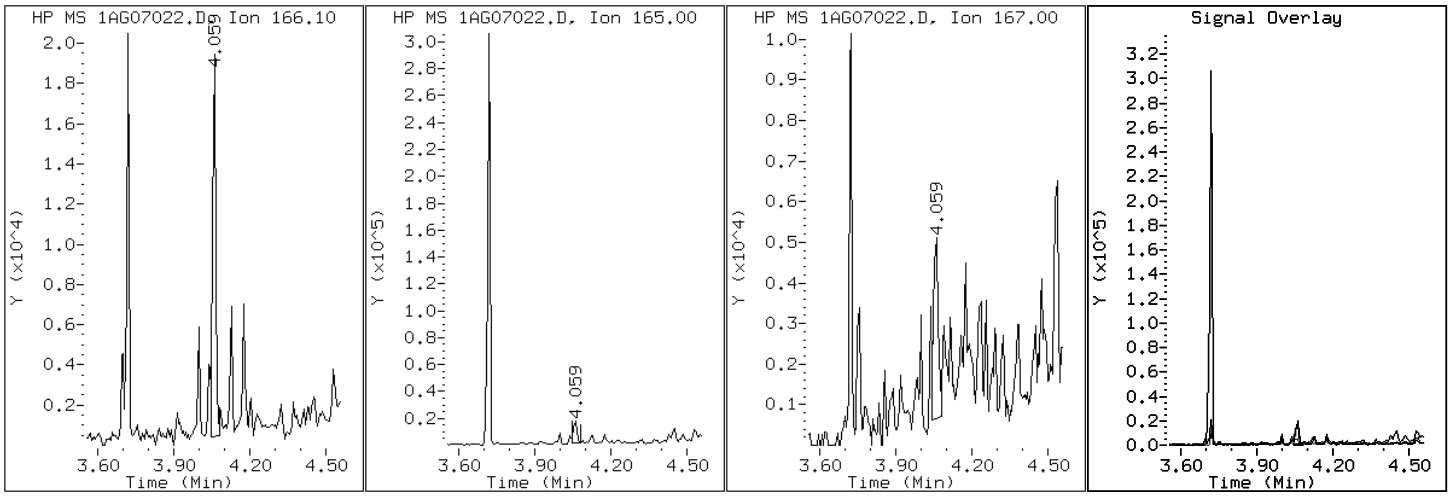
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

10 Fluorene



Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

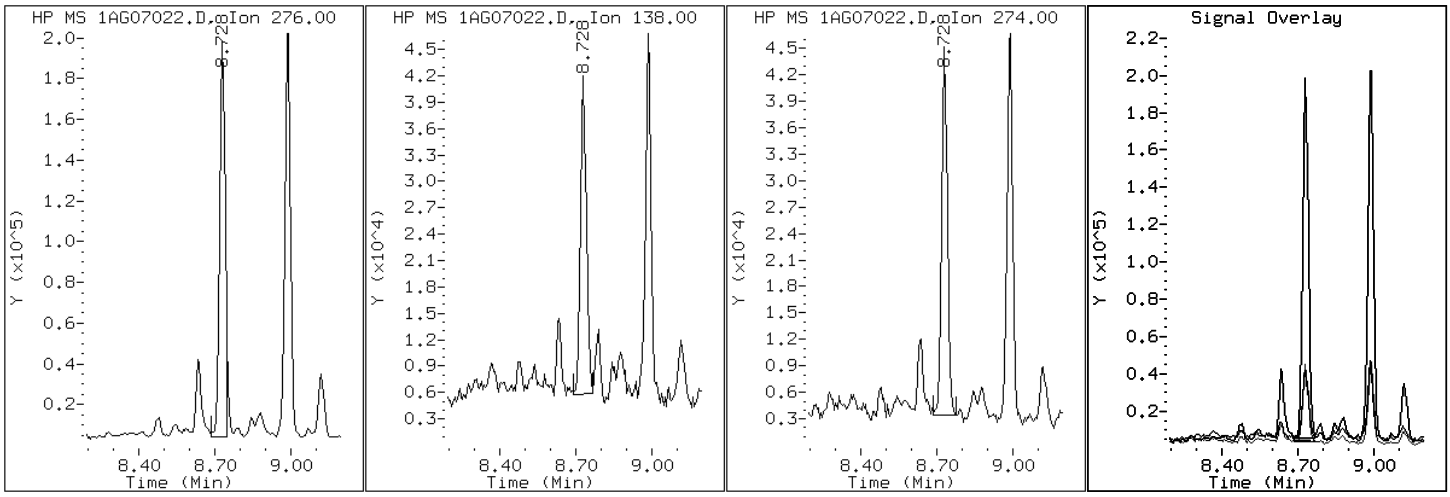
Client ID: CV1363Q-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a

Operator: SCC

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



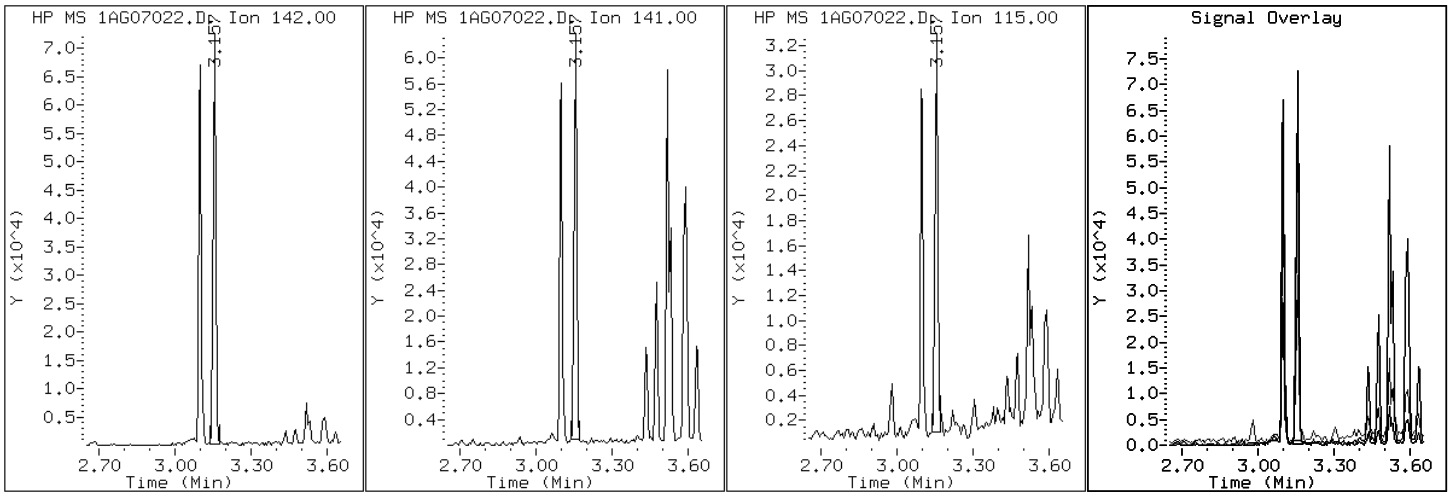
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

4 1-Methylnaphthalene



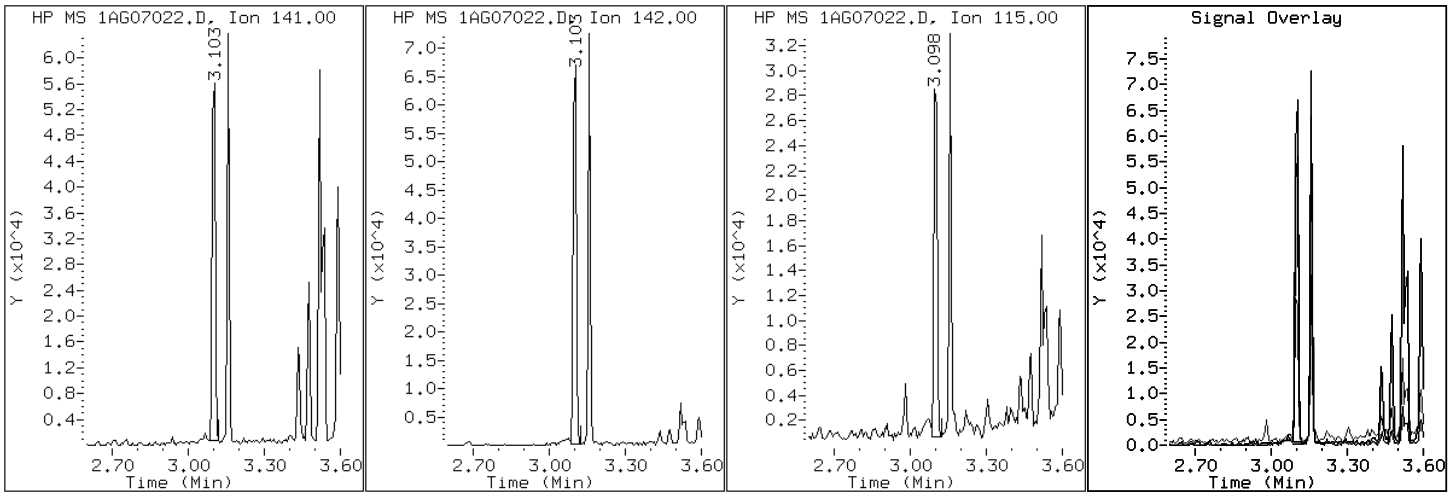
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

3 2-Methylnaphthalene



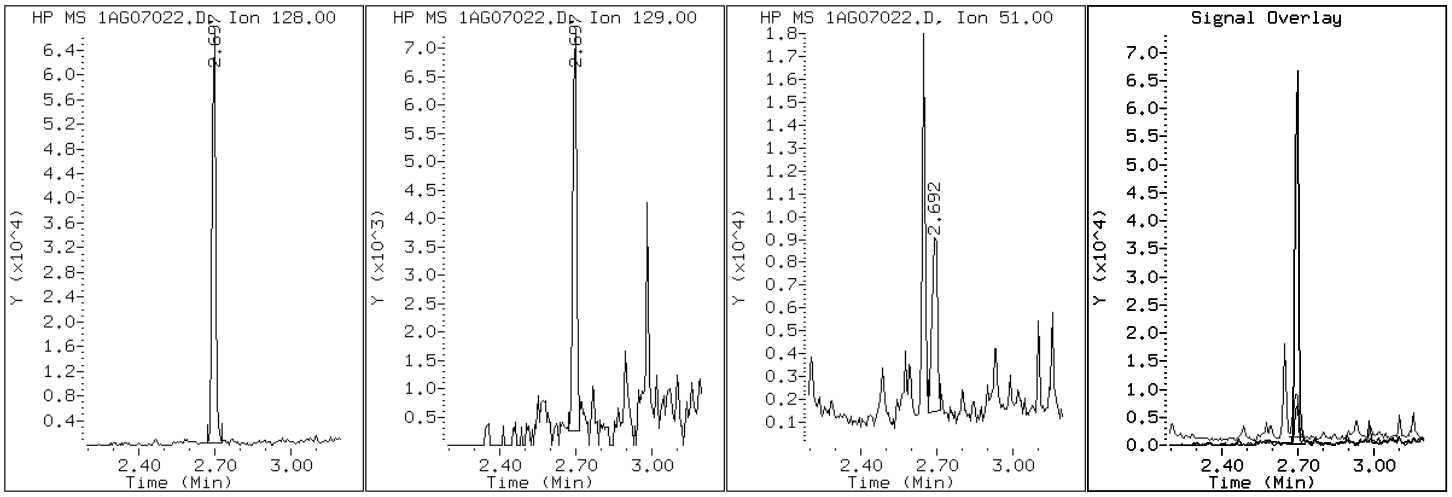
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

2 Naphthalene



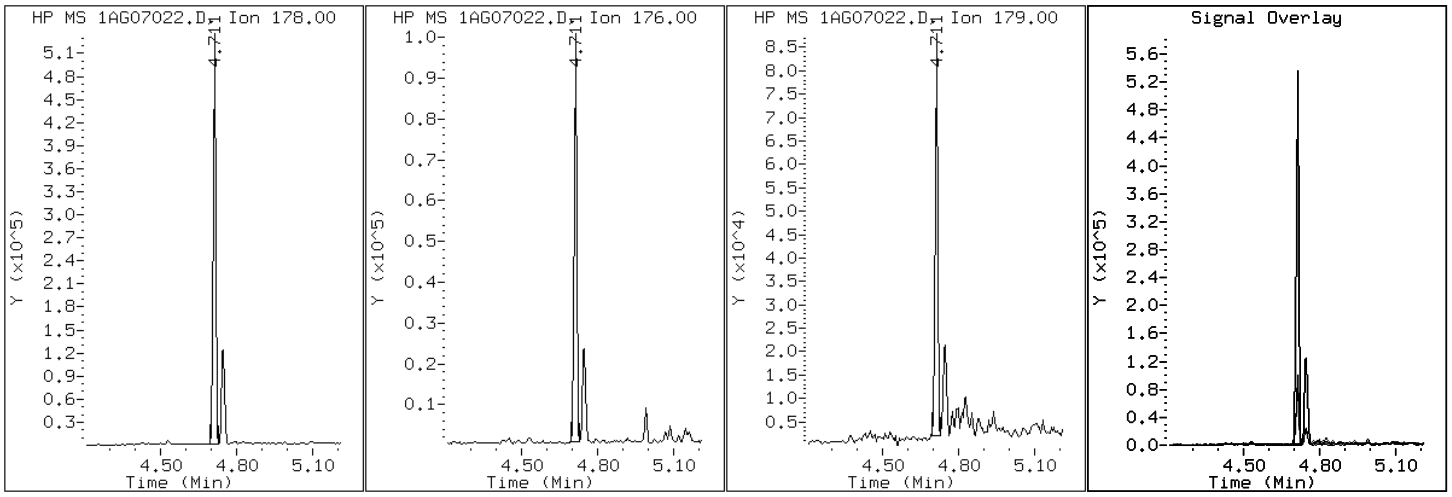
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

12 Phenanthrene



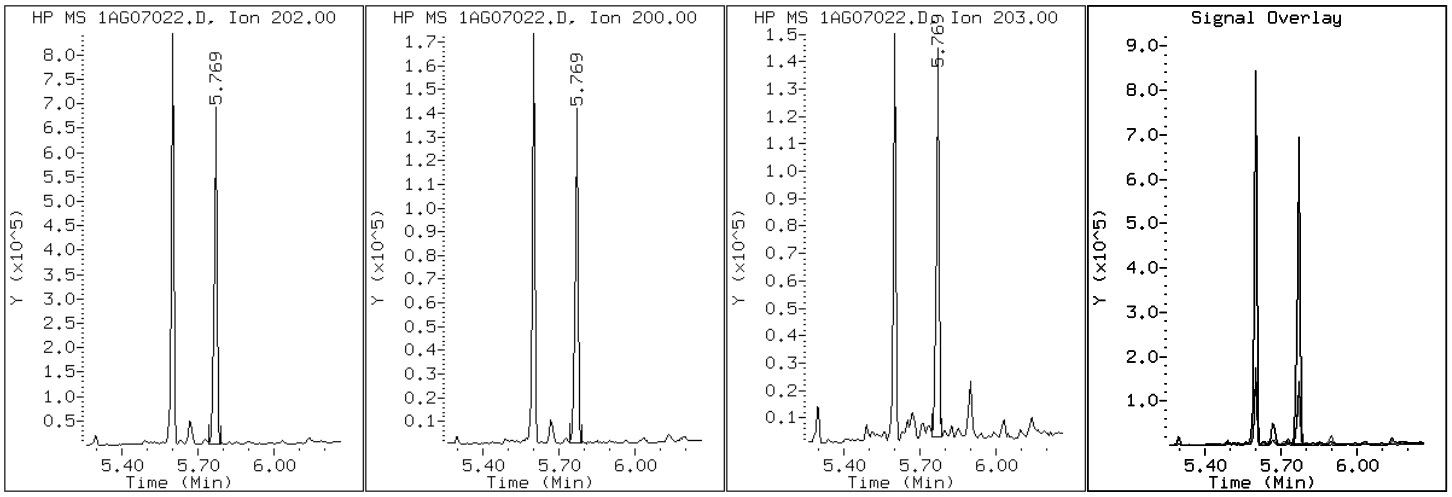
Data File: 1AG07022.D

Date: 07-JUL-2013 18:54

Client ID: CV1363Q-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-23-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07022.D
Inj. Date and Time: 07-JUL-2013 18:54
Instrument ID: BSMA5973.i
Client ID: CV1363Q-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

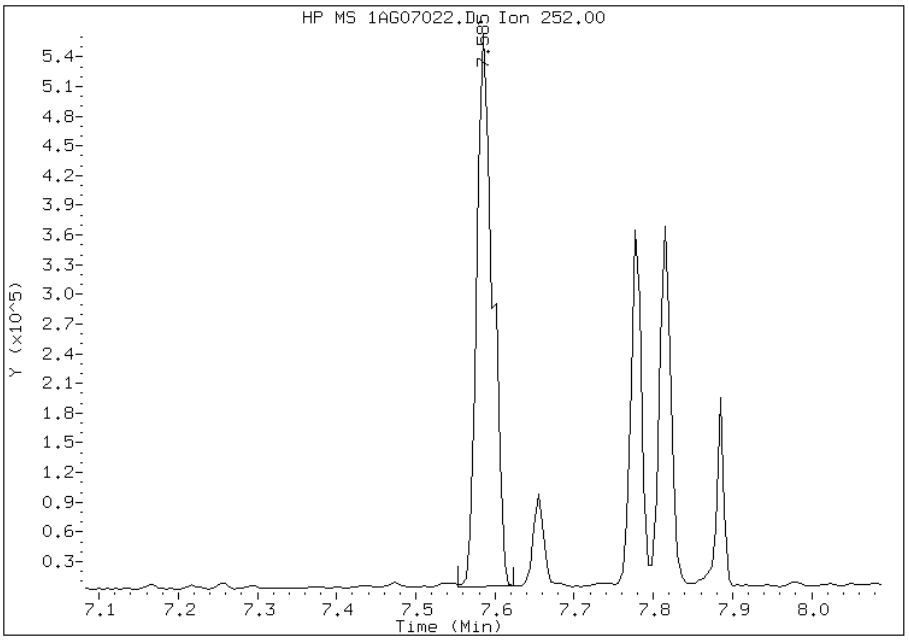
Processing Integration Results

RT: 7.59

Response: 772250

Amount: 8

Conc: 581



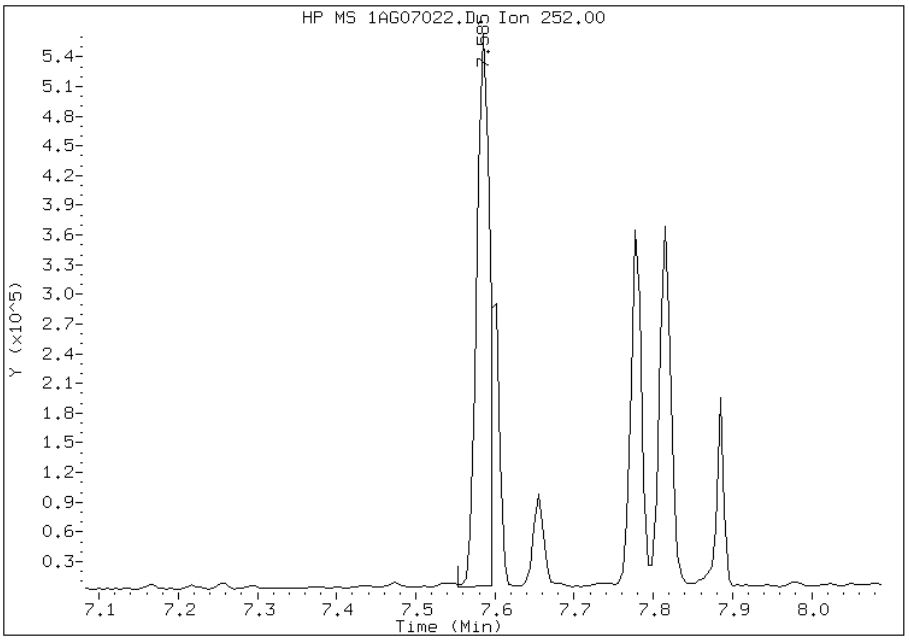
Manual Integration Results

RT: 7.59

Response: 631392

Amount: 6

Conc: 475



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07022.D
Inj. Date and Time: 07-JUL-2013 18:54
Instrument ID: BSMA5973.i
Client ID: CV1363Q-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

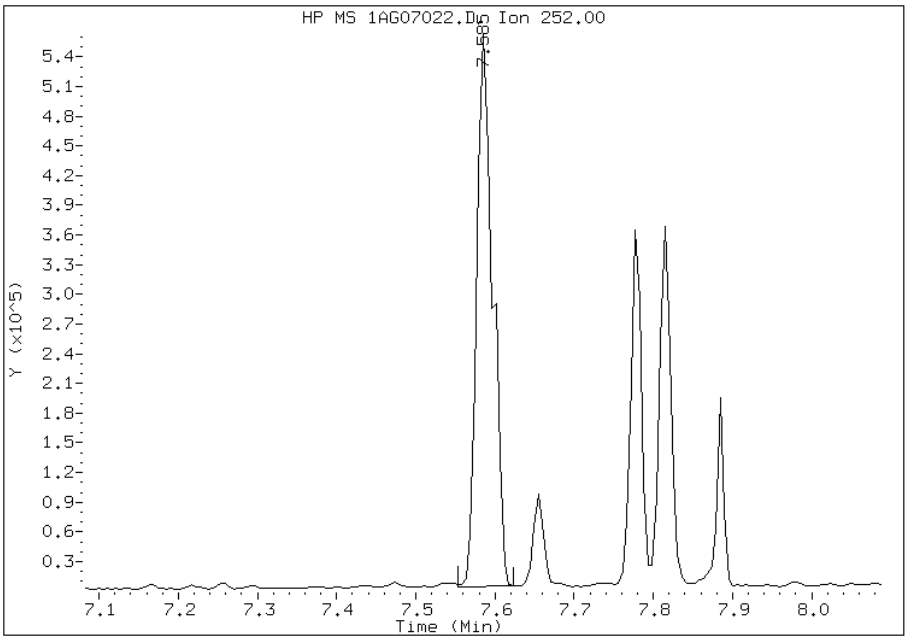
Processing Integration Results

RT: 7.59

Response: 772131

Amount: 7

Conc: 563



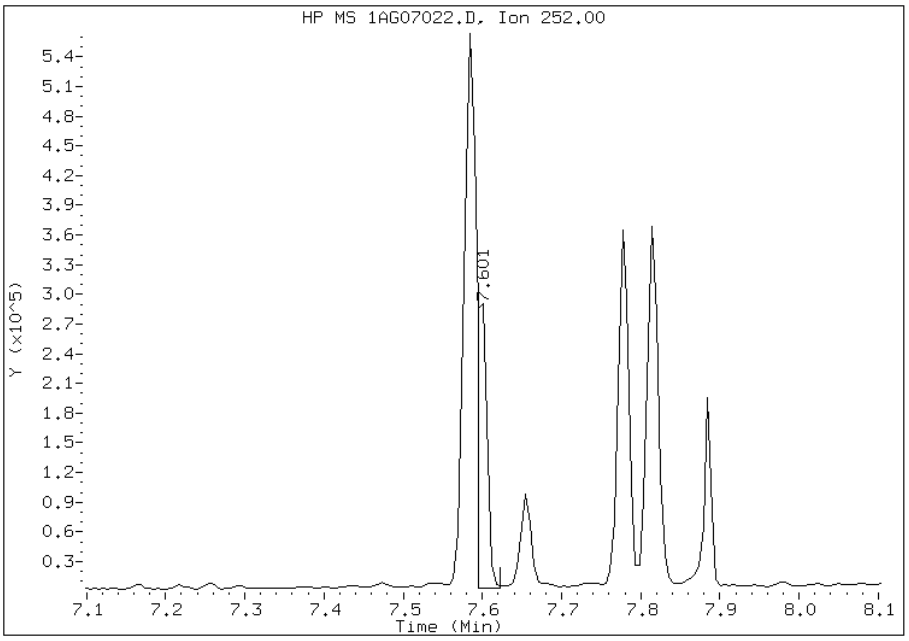
Manual Integration Results

RT: 7.60

Response: 235022

Amount: 2

Conc: 171



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07022.D
Inj. Date and Time: 07-JUL-2013 18:54
Instrument ID: BSMA5973.i
Client ID: CV1363Q-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

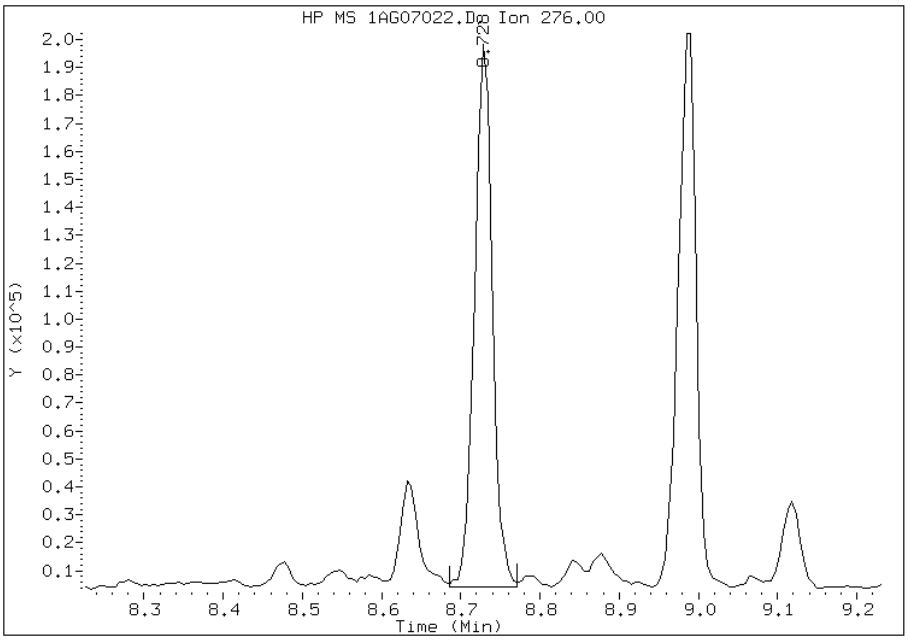
Processing Integration Results

RT: 8.73

Response: 301109

Amount: 4

Conc: 281



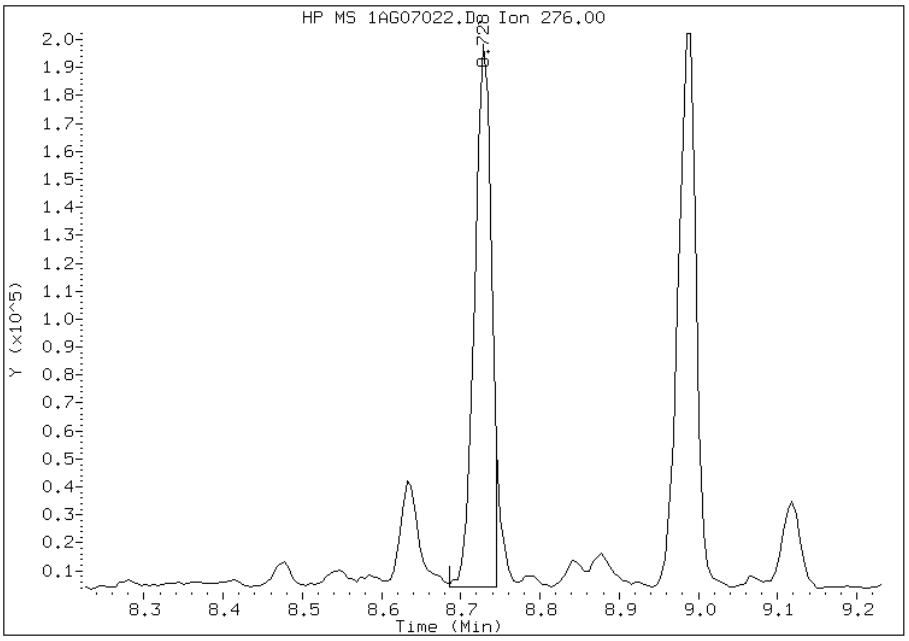
Manual Integration Results

RT: 8.73

Response: 285287

Amount: 3

Conc: 266



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363R-CS | Lab Sample ID: 680-91719-24

Matrix: Solid | Lab File ID: 1AG07023.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 10:03

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 15.02(g) | Date Analyzed: 07/07/2013 19:09

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

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

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	120		47	5.9
120-12-7	Anthracene	250		9.9	4.9
56-55-3	Benzo[a]anthracene	350		9.4	4.6
50-32-8	Benzo[a]pyrene	340		12	6.1
205-99-2	Benzo[b]fluoranthene	910		14	7.2
191-24-2	Benzo[g,h,i]perylene	270		23	5.2
207-08-9	Benzo[k]fluoranthene	240		9.4	4.2
218-01-9	Chrysene	830		11	5.3
53-70-3	Dibenz(a,h)anthracene	90		23	4.8
206-44-0	Fluoranthene	350		23	4.7
86-73-7	Fluorene	14	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	280		23	8.3
90-12-0	1-Methylnaphthalene	66		47	5.2
91-57-6	2-Methylnaphthalene	77		47	8.3
91-20-3	Naphthalene	57		47	5.2
85-01-8	Phenanthrene	140		9.4	4.6
129-00-0	Pyrene	340		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07023.D
Lab Smp Id: 680-91719-A-24-A Client Smp ID: CV1363R-CS
Inj Date : 07-JUL-2013 19:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-24-a
Misc Info : 680-91719-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.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	15.020	Weight Extracted
M	15.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.685	2.683	(1.000)	2678951	40.0000	
* 7 Acenaphthene-d10	164	3.721	3.714	(1.000)	1654187	40.0000	
* 11 Phenanthrene-d10	188	4.699	4.692	(1.000)	2363295	40.0000	
$ 15 o-Terphenyl	230	4.993	4.986	(1.063)	196274	5.46542	428.0898
* 19 Chrysene-d12	240	6.766	6.748	(1.000)	2670298	40.0000	
* 24 Perylene-d12	264	7.883	7.849	(1.000)	3690180	40.0000	(H)
2 Naphthalene	128	2.696	2.694	(1.004)	43841	0.72431	56.7332
3 2-Methylnaphthalene	141	3.102	3.100	(1.155)	33991	0.98431	77.0982
4 1-Methylnaphthalene	142	3.160	3.153	(1.177)	33847	0.83939	65.7472
6 Acenaphthylene	152	3.631	3.629	(0.976)	116720	1.58178	123.8959
10 Fluorene	166	4.058	4.056	(1.090)	9451	0.18267	14.3081
12 Phenanthrene	178	4.710	4.708	(1.002)	107282	1.78364	139.7071
13 Anthracene	178	4.747	4.740	(1.010)	201912	3.21922	252.1518
16 Fluoranthene	202	5.596	5.589	(1.191)	319779	4.41826	346.0688

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.767	5.760	(0.852)	382786	4.30598	337.2739
18 Benzo(a)anthracene	228	6.756	6.732	(0.998)	390619	4.50451	352.8244
20 Chrysene	228	6.782	6.764	(1.002)	766095	10.5906	829.5265
21 Benzo(b)fluoranthene	252	7.594	7.566	(0.963)	1224716	11.6588	913.1959(MH)
22 Benzo(k)fluoranthene	252	7.605	7.587	(0.965)	334159	3.08085	241.3134(QMH)
23 Benzo(a)pyrene	252	7.824	7.795	(0.993)	418391	4.30683	337.3409(H)
25 Indeno(1,2,3-cd)pyrene	276	8.738	8.693	(1.108)	299321	3.53366	276.7805(MH)
26 Dibenzo(a,h)anthracene	278	8.754	8.720	(1.110)	91846	1.14680	89.8253(H)
27 Benzo(g,h,i)perylene	276	8.994	8.944	(1.141)	281514	3.50533	274.5614(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: 1AG07023.D

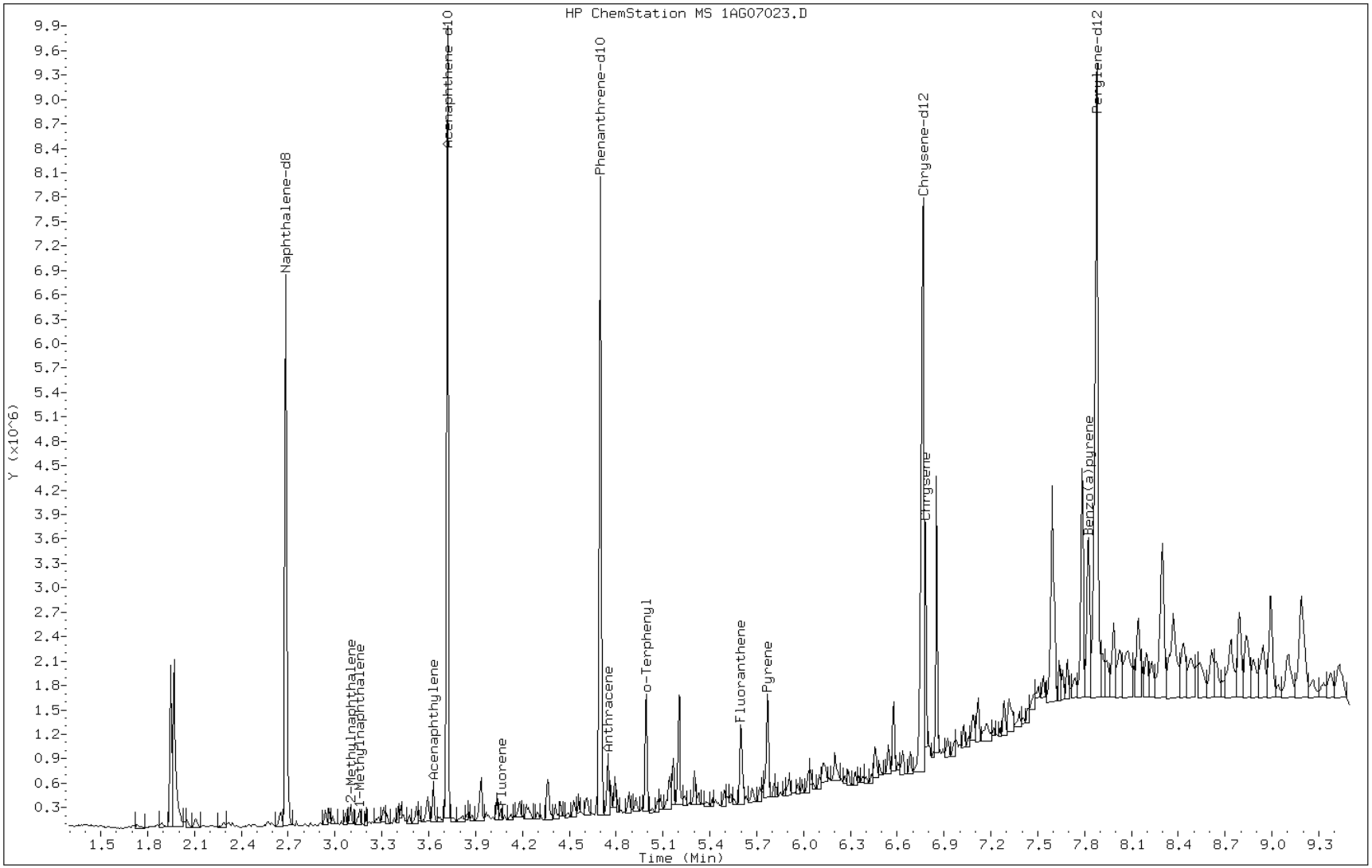
Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a

Operator: SCC



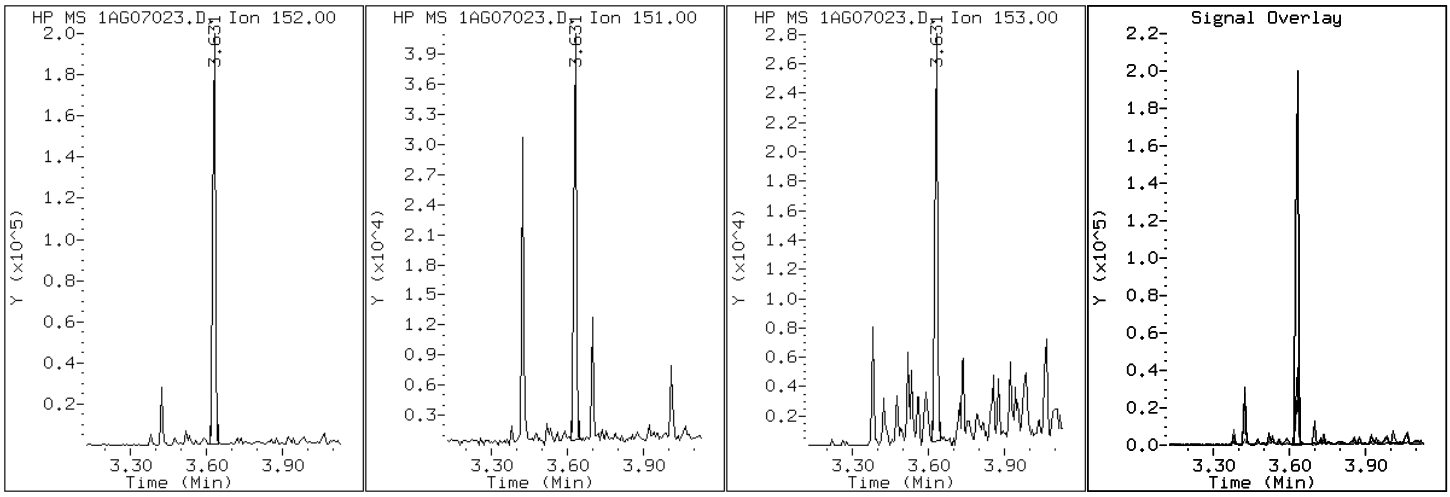
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

6 Acenaphthylene



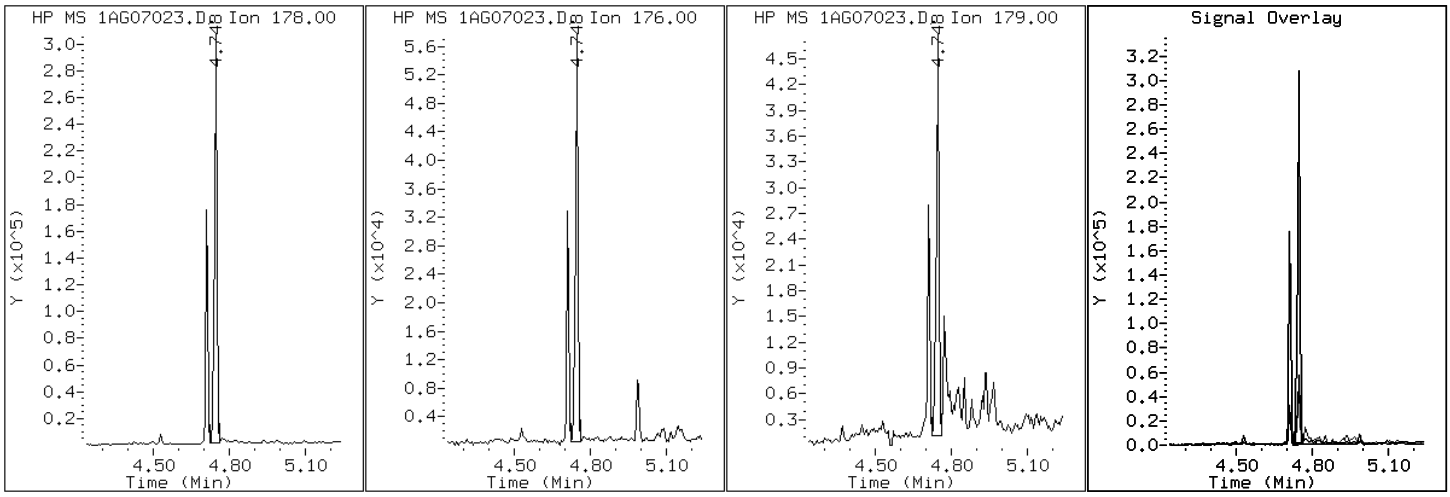
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

13 Anthracene



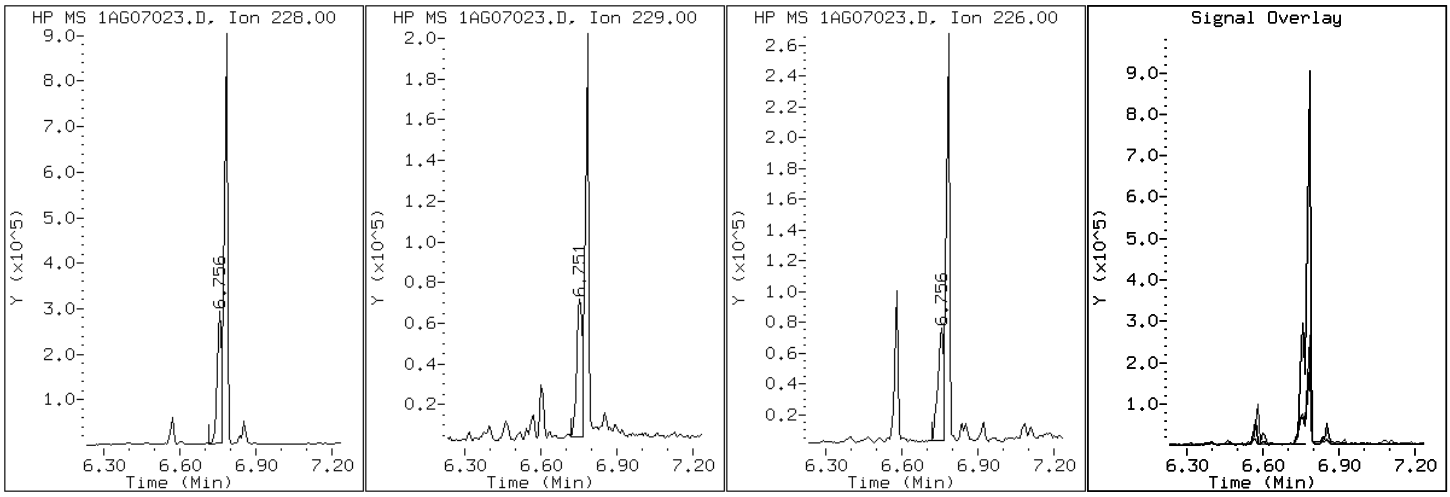
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

18 Benzo(a)anthracene



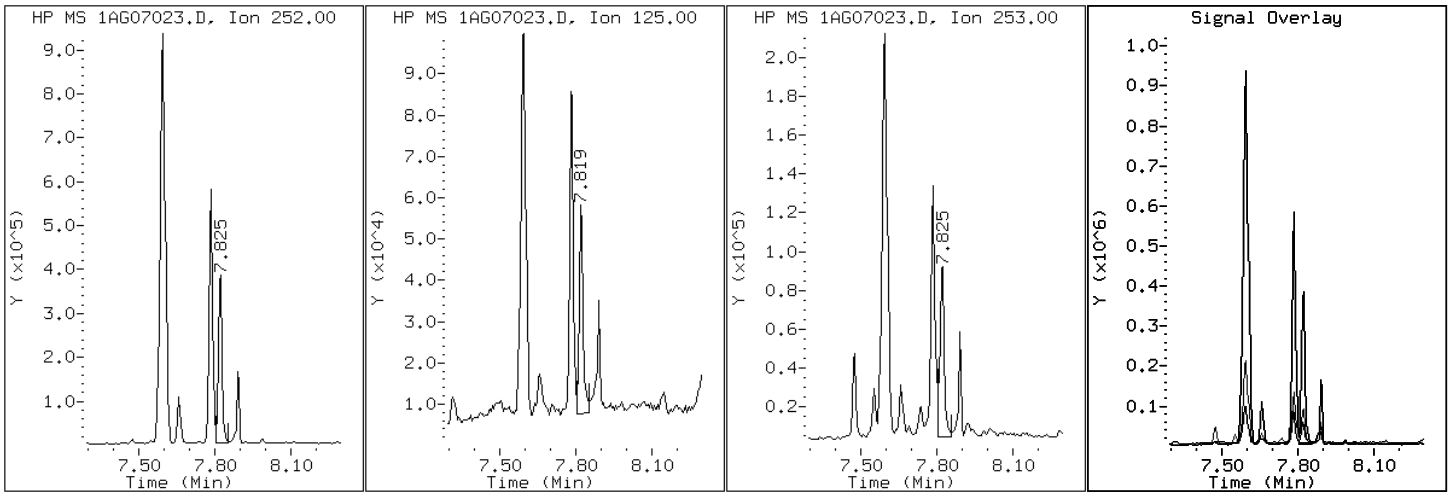
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

23 Benzo(a)pyrene



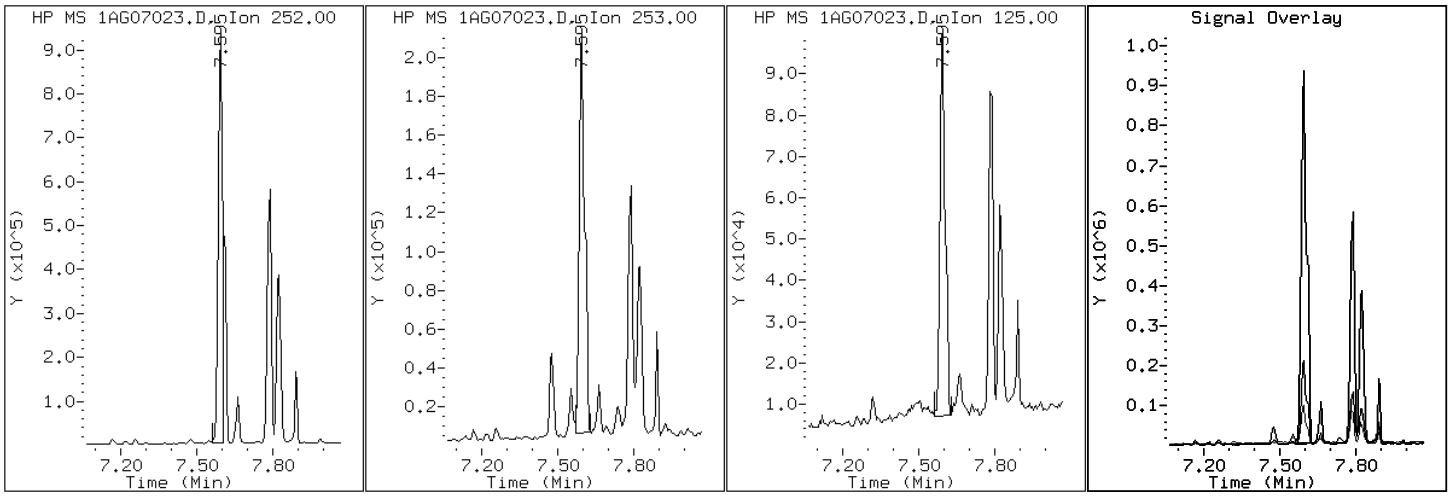
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

21 Benzo(b)fluoranthene



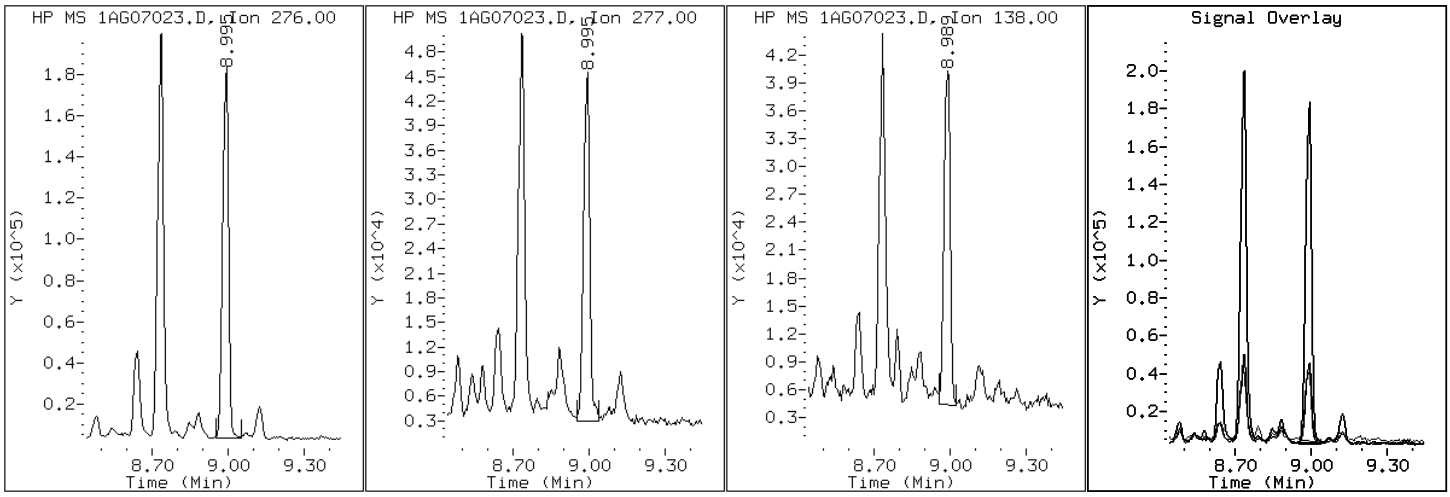
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

27 Benzo(g,h,i)perylene



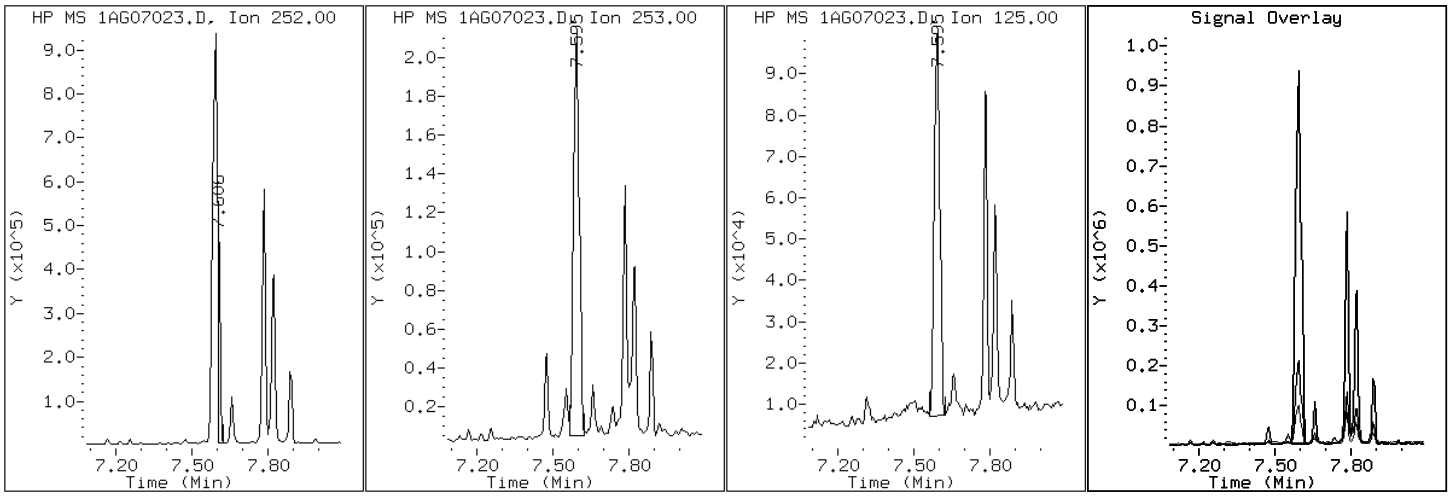
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

22 Benzo(k)fluoranthene



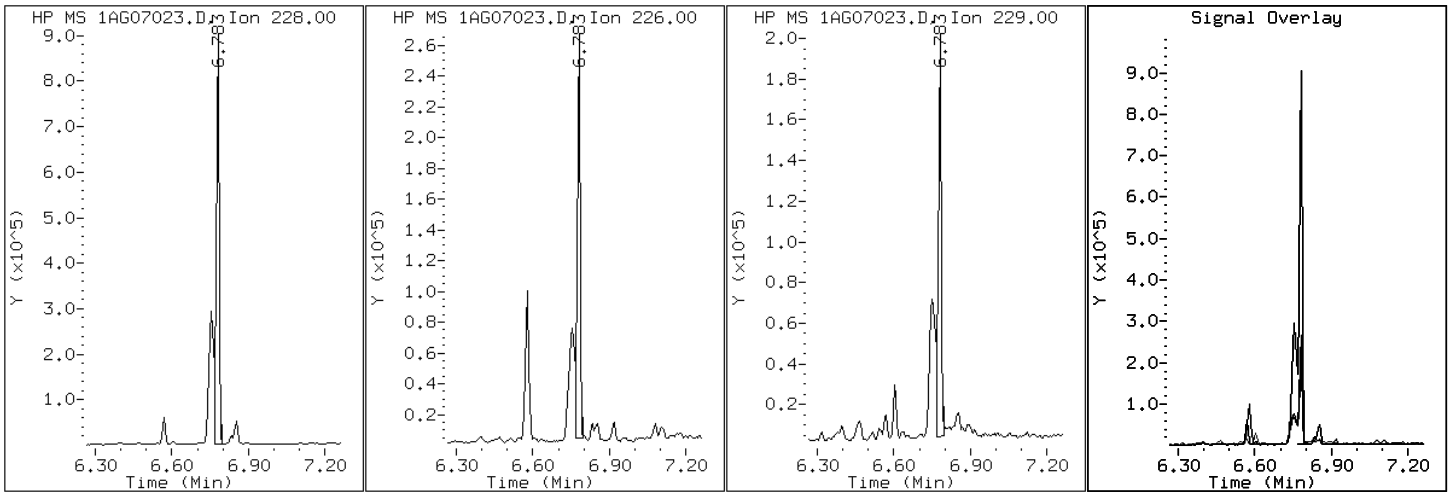
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

20 Chrysene



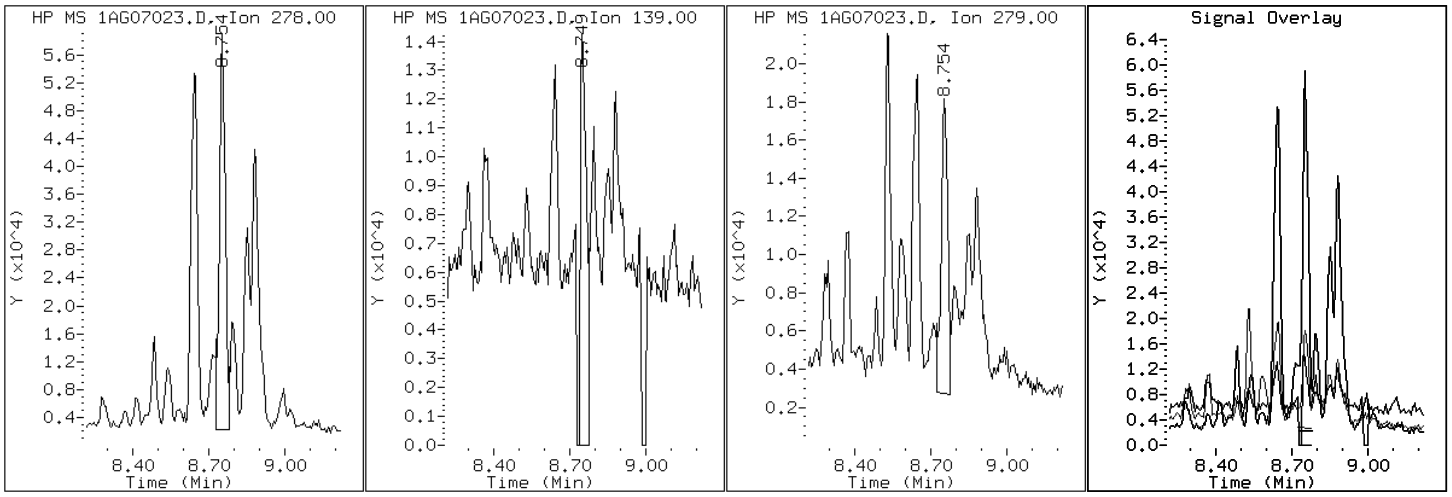
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

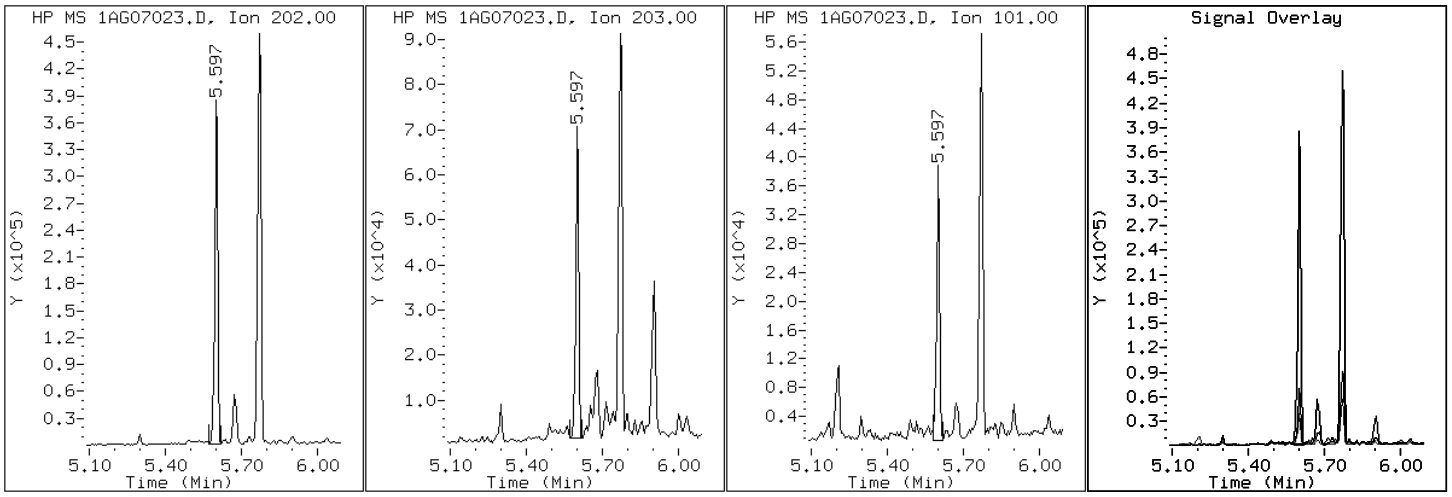
Client ID: CV1363R-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a

Operator: SCC

16 Fluoranthene



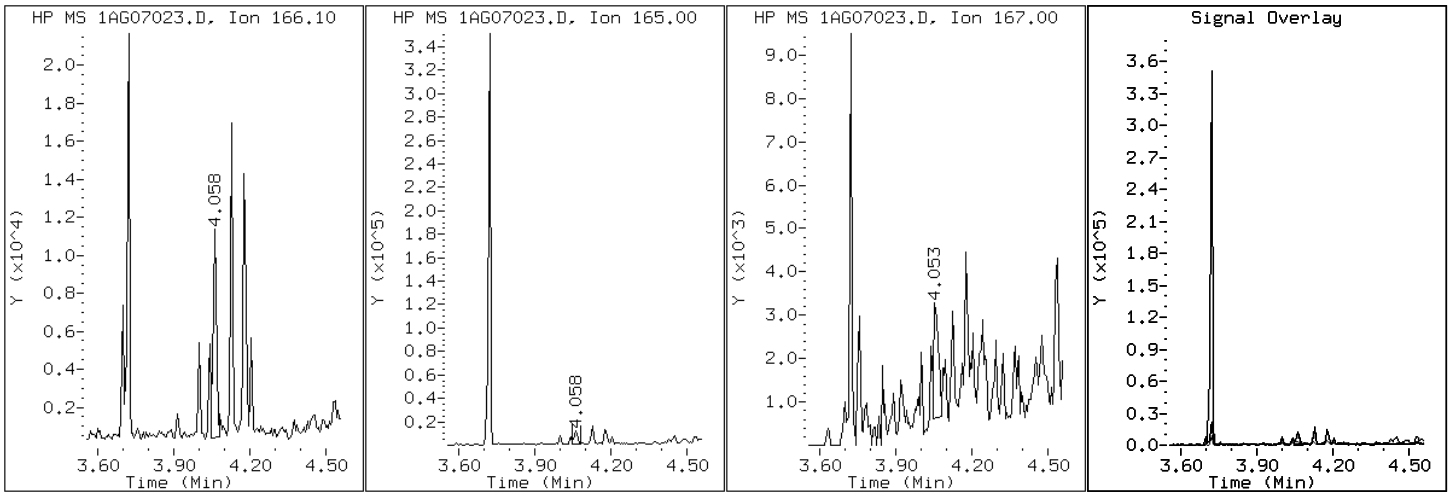
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

10 Fluorene



Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

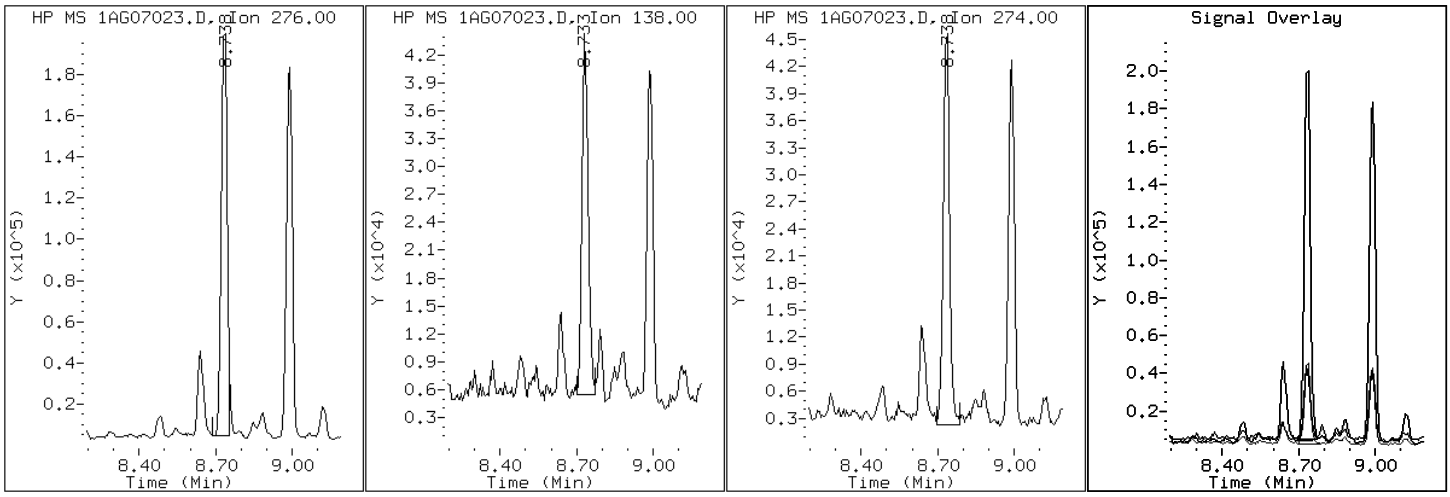
Client ID: CV1363R-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a

Operator: SCC

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



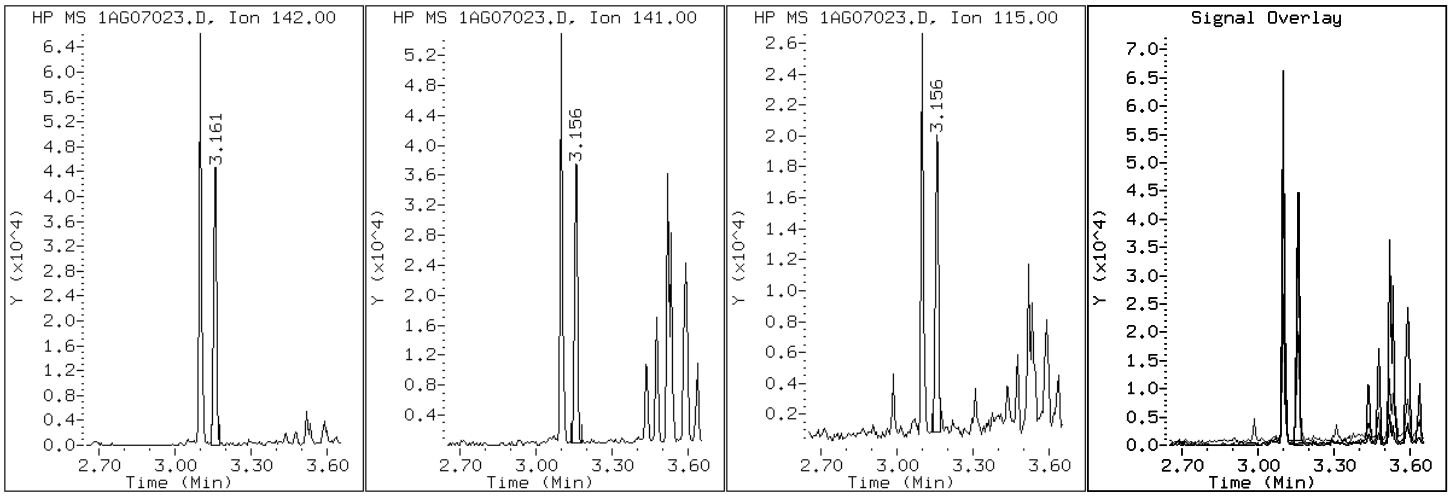
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

4 1-Methylnaphthalene



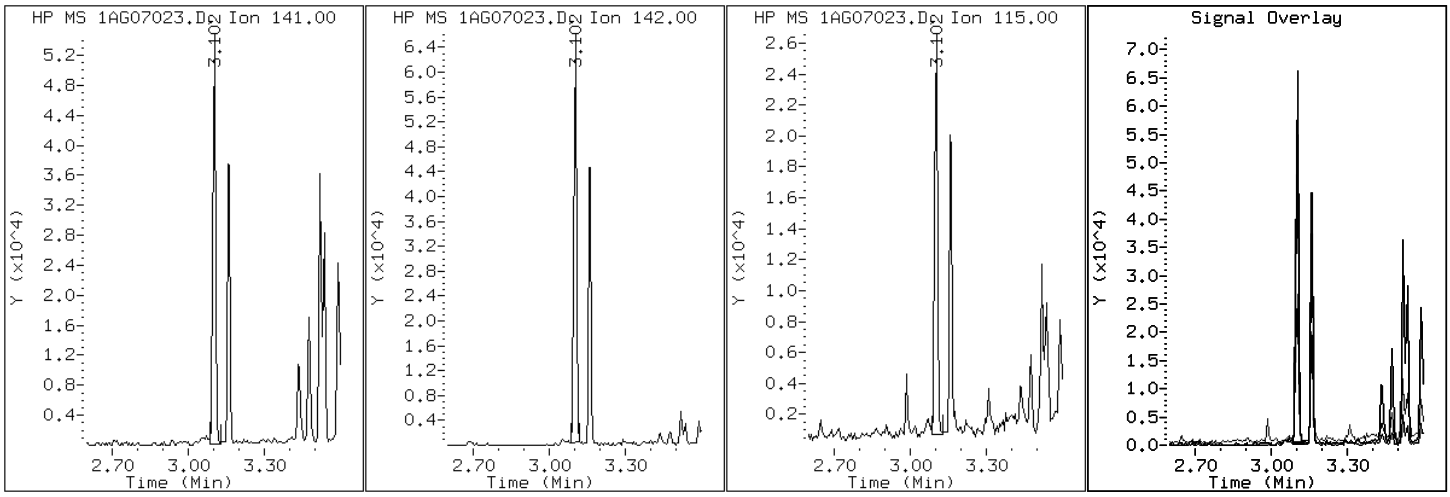
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

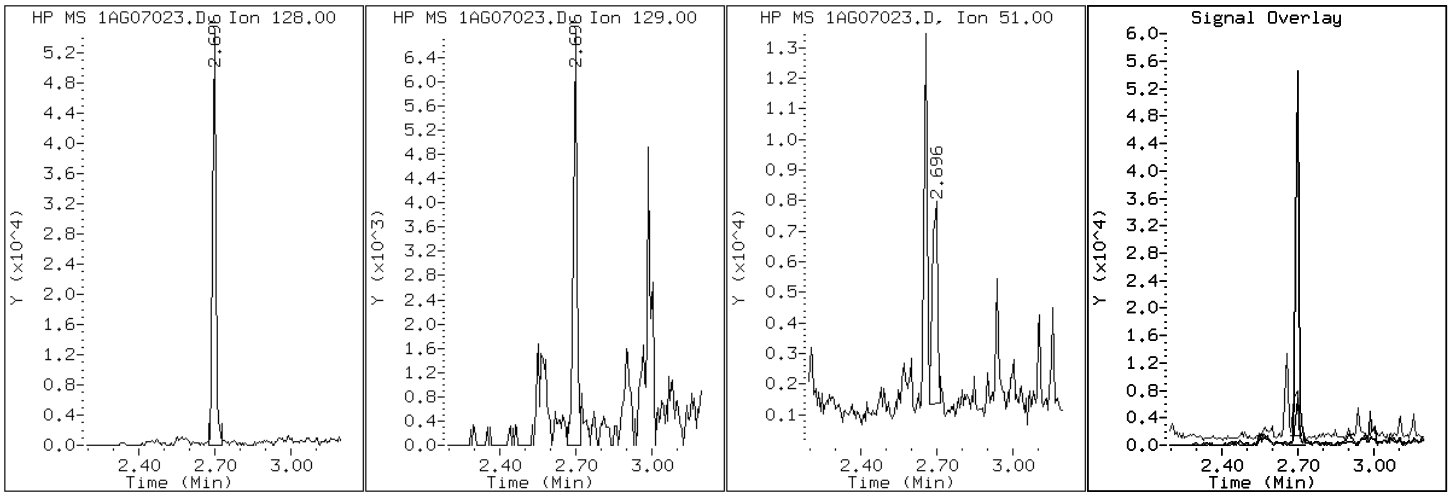
Client ID: CV1363R-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a

Operator: SCC

2 Naphthalene



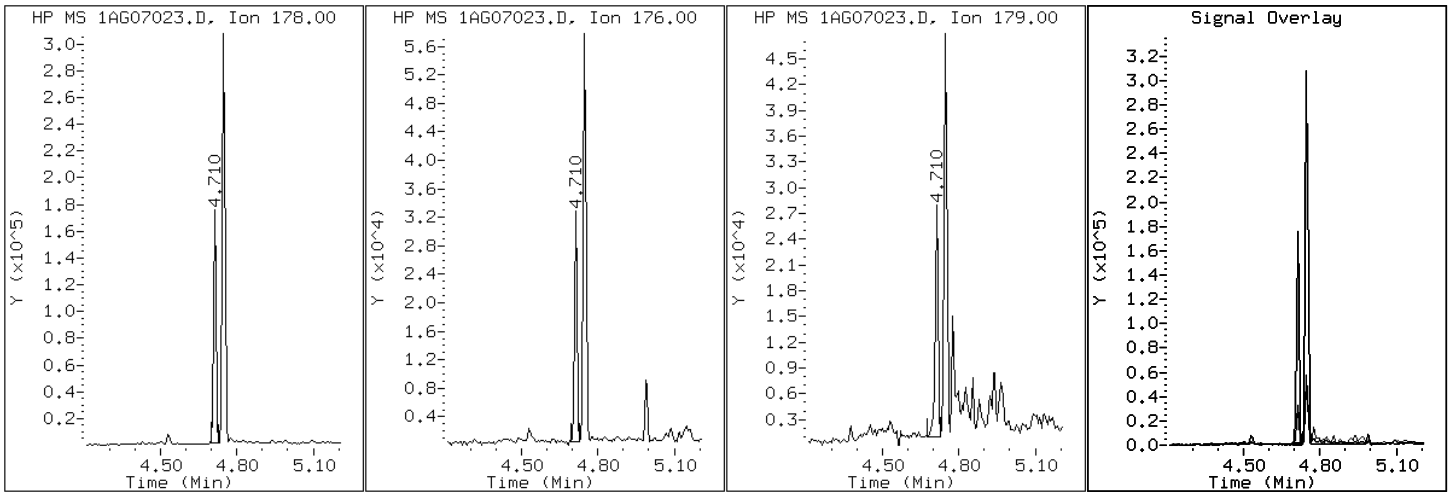
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

12 Phenanthrene



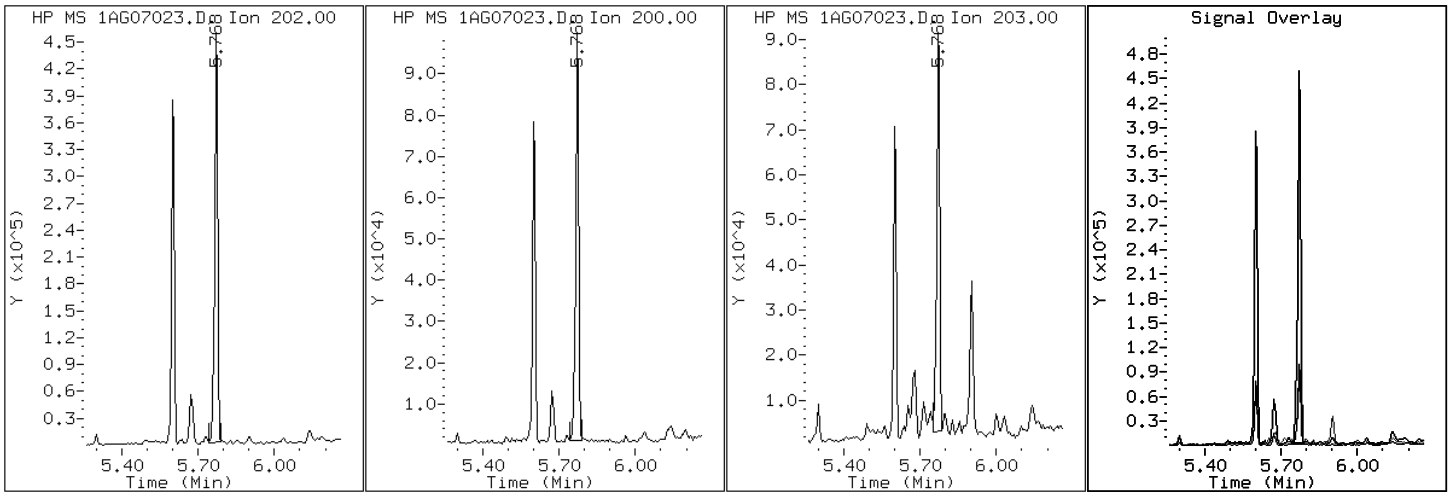
Data File: 1AG07023.D

Date: 07-JUL-2013 19:09

Client ID: CV1363R-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-24-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07023.D
Inj. Date and Time: 07-JUL-2013 19:09
Instrument ID: BSMA5973.i
Client ID: CV1363R-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

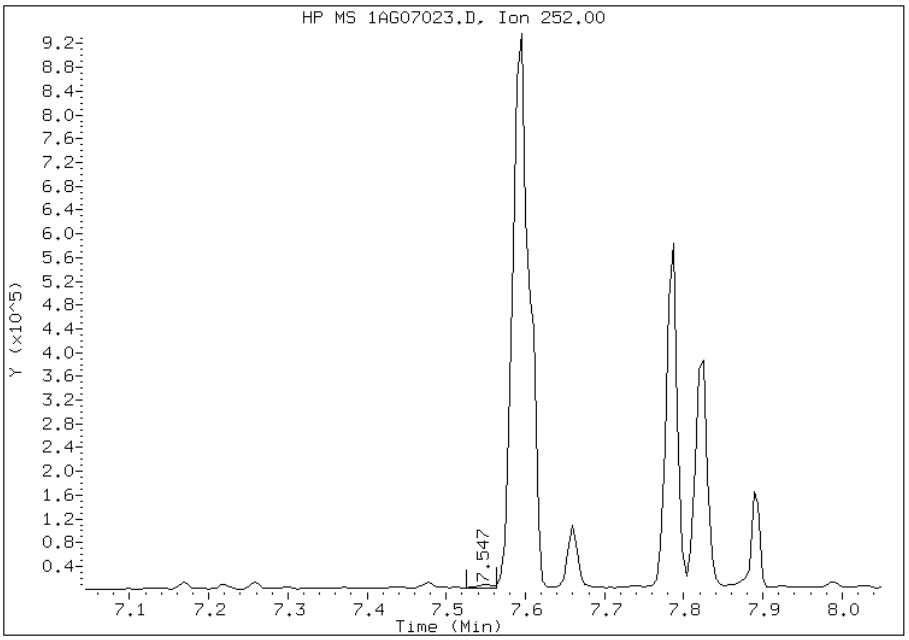
Processing Integration Results

RT: 7.55

Response: 9008

Amount: 0

Conc: 7



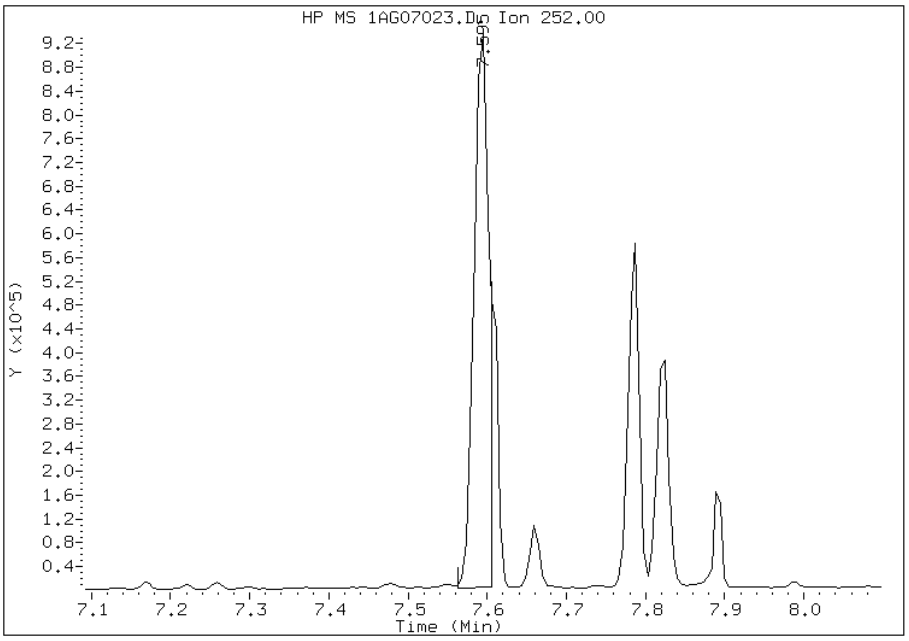
Manual Integration Results

RT: 7.59

Response: 1224716

Amount: 12

Conc: 913



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07023.D
Inj. Date and Time: 07-JUL-2013 19:09
Instrument ID: BSMA5973.i
Client ID: CV1363R-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

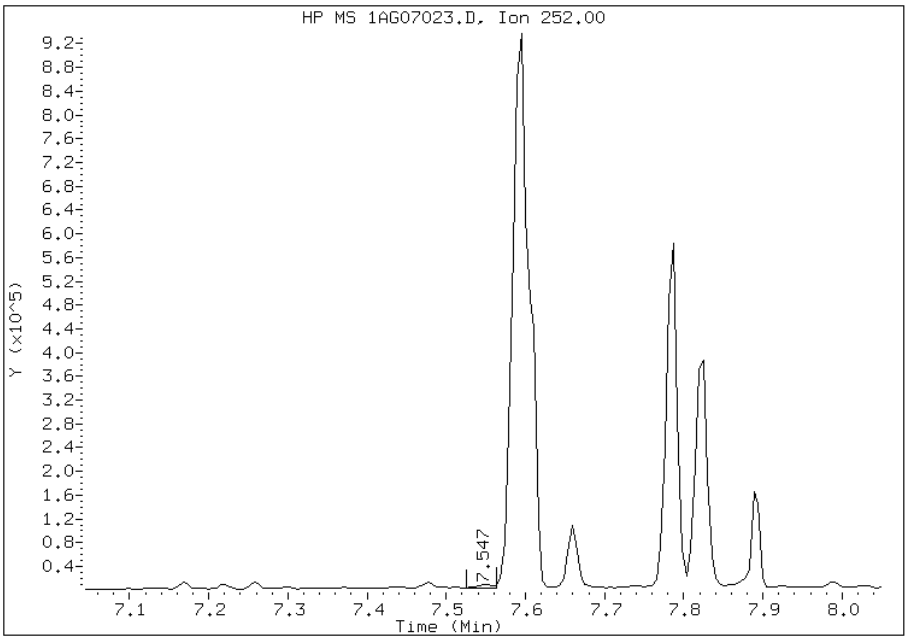
Processing Integration Results

RT: 7.55

Response: 9008

Amount: 0

Conc: 7



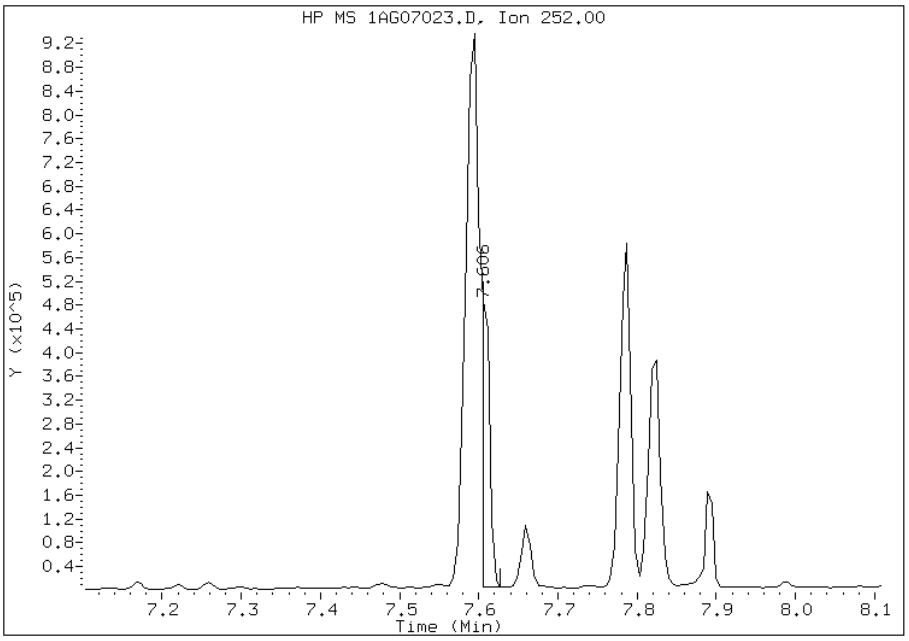
Manual Integration Results

RT: 7.61

Response: 334159

Amount: 3

Conc: 241



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07023.D
Inj. Date and Time: 07-JUL-2013 19:09
Instrument ID: BSMA5973.i
Client ID: CV1363R-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

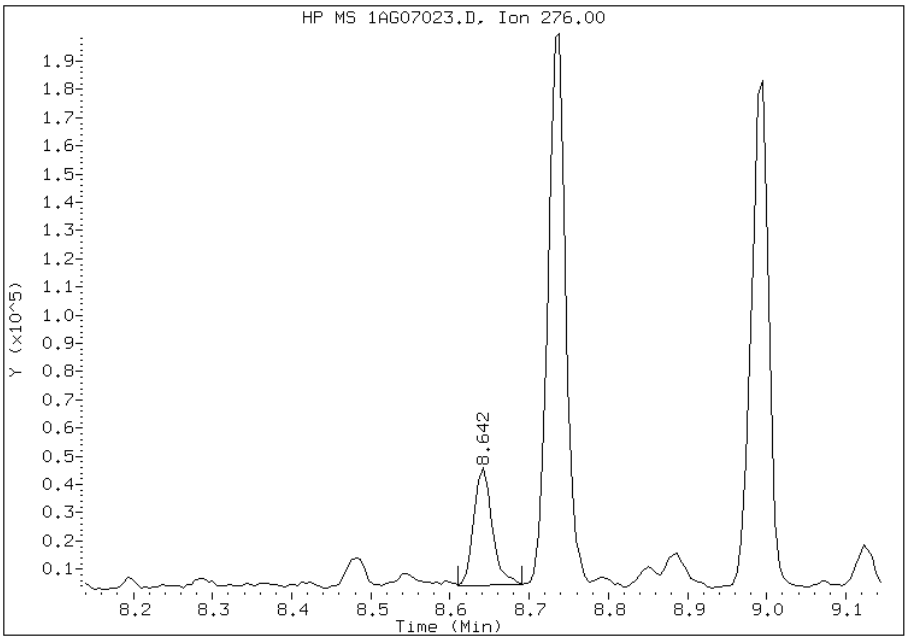
Processing Integration Results

RT: 8.64

Response: 65752

Amount: 1

Conc: 61



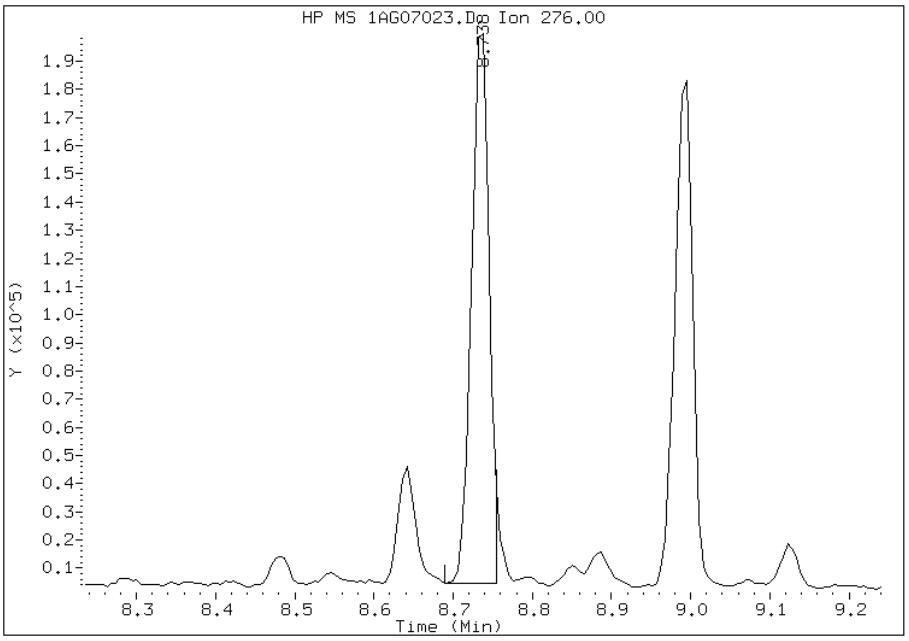
Manual Integration Results

RT: 8.74

Response: 299321

Amount: 4

Conc: 277



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363R-CSD | Lab Sample ID: 680-91719-25

Matrix: Solid | Lab File ID: 1AG07024.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 10:03

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 14.98(g) | Date Analyzed: 07/07/2013 19:24

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

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

% Moisture: 15.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	130		47	5.9
120-12-7	Anthracene	250		10	5.0
56-55-3	Benzo[a]anthracene	330		9.5	4.6
50-32-8	Benzo[a]pyrene	350		12	6.2
205-99-2	Benzo[b]fluoranthene	910		14	7.2
191-24-2	Benzo[g,h,i]perylene	300		24	5.2
207-08-9	Benzo[k]fluoranthene	270		9.5	4.3
218-01-9	Chrysene	710		11	5.3
53-70-3	Dibenz(a,h)anthracene	96		24	4.9
206-44-0	Fluoranthene	380		24	4.7
86-73-7	Fluorene	15	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	300		24	8.4
90-12-0	1-Methylnaphthalene	82		47	5.2
91-57-6	2-Methylnaphthalene	88		47	8.4
91-20-3	Naphthalene	73		47	5.2
85-01-8	Phenanthrene	180		9.5	4.6
129-00-0	Pyrene	350		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07024.D
Lab Smp Id: 680-91719-A-25-A Client Smp ID: CV1363R-CSD
Inj Date : 07-JUL-2013 19:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-25-a
Misc Info : 680-91719-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	15.598	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.684	2.683	(1.000)	2619716	40.0000	
* 7 Acenaphthene-d10	164	3.721	3.714	(1.000)	1510545	40.0000	
* 11 Phenanthrene-d10	188	4.698	4.692	(1.000)	2160623	40.0000	
$ 15 o-Terphenyl	230	4.992	4.986	(1.063)	180756	5.50545	435.4401
* 19 Chrysene-d12	240	6.766	6.748	(1.000)	2621597	40.0000	
* 24 Perylene-d12	264	7.882	7.849	(1.000)	3741242	40.0000	(H)
2 Naphthalene	128	2.695	2.694	(1.004)	54475	0.92035	72.7930
3 2-Methylnaphthalene	141	3.101	3.100	(1.155)	37734	1.11741	88.3789
4 1-Methylnaphthalene	142	3.160	3.153	(1.177)	41107	1.04249	82.4533
6 Acenaphthylene	152	3.630	3.629	(0.976)	106613	1.58220	125.1404
10 Fluorene	166	4.063	4.056	(1.092)	9240	0.19558	15.4686
12 Phenanthrene	178	4.709	4.708	(1.002)	127500	2.31862	183.3857
13 Anthracene	178	4.746	4.740	(1.010)	184539	3.21822	254.5375
16 Fluoranthene	202	5.601	5.589	(1.192)	314395	4.75134	375.7957

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.772	5.760	(0.853)	381484	4.37105	345.7176
18 Benzo(a)anthracene	228	6.760	6.732	(0.999)	356323	4.17800	330.4488
20 Chrysene	228	6.782	6.764	(1.002)	640571	9.01981	713.4004
21 Benzo(b)fluoranthene	252	7.594	7.566	(0.963)	1224730	11.4998	909.5474(MH)
22 Benzo(k)fluoranthene	252	7.604	7.587	(0.965)	373479	3.39637	268.6278(QMH)
23 Benzo(a)pyrene	252	7.823	7.795	(0.993)	434868	4.41535	349.2212(H)
25 Indeno(1,2,3-cd)pyrene	276	8.737	8.693	(1.108)	326986	3.80757	301.1507(MH)
26 Dibenzo(a,h)anthracene	278	8.758	8.720	(1.111)	98863	1.21757	96.3006(H)
27 Benzo(g,h,i)perylene	276	8.999	8.944	(1.142)	307528	3.77698	298.7312(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: 1AG07024.D

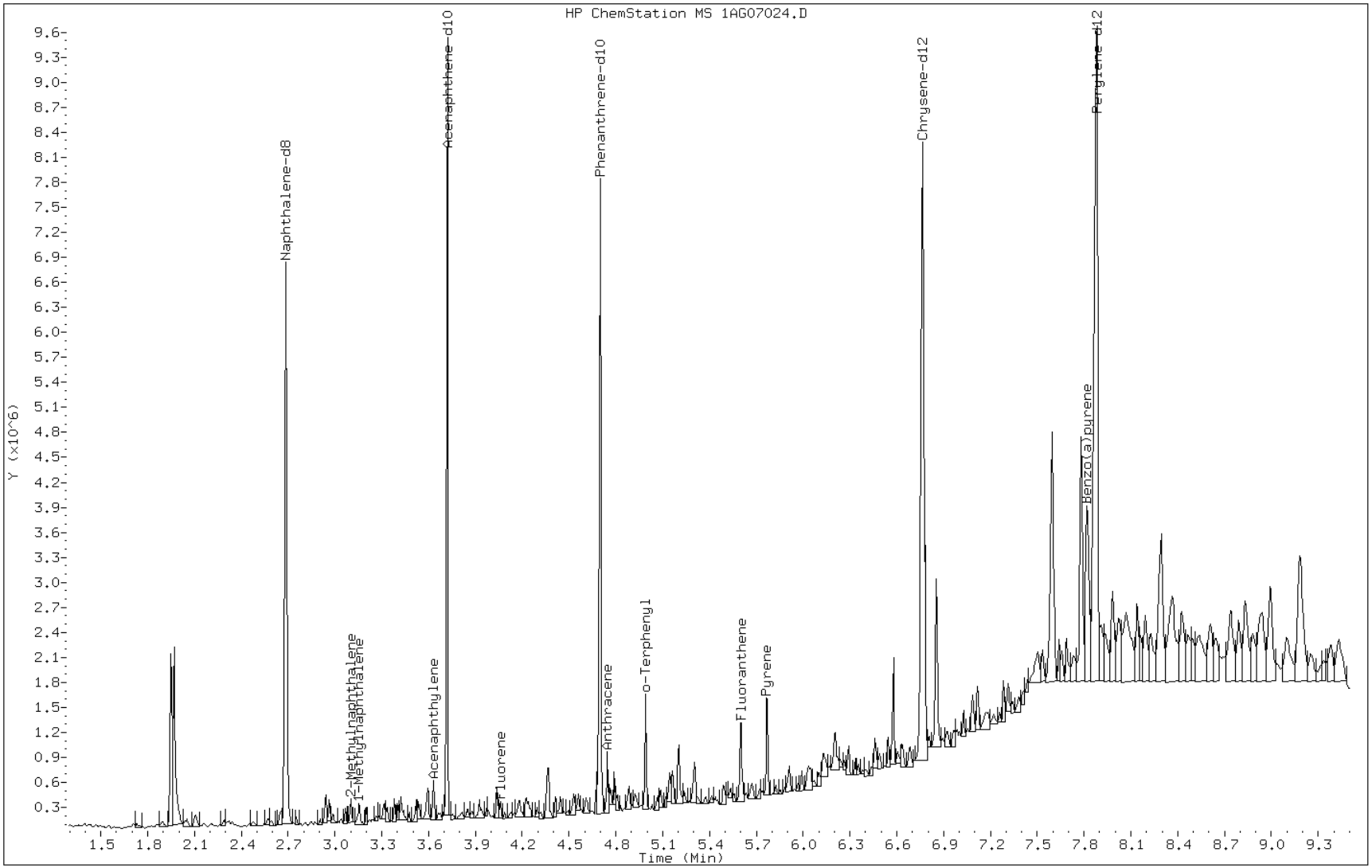
Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a

Operator: SCC



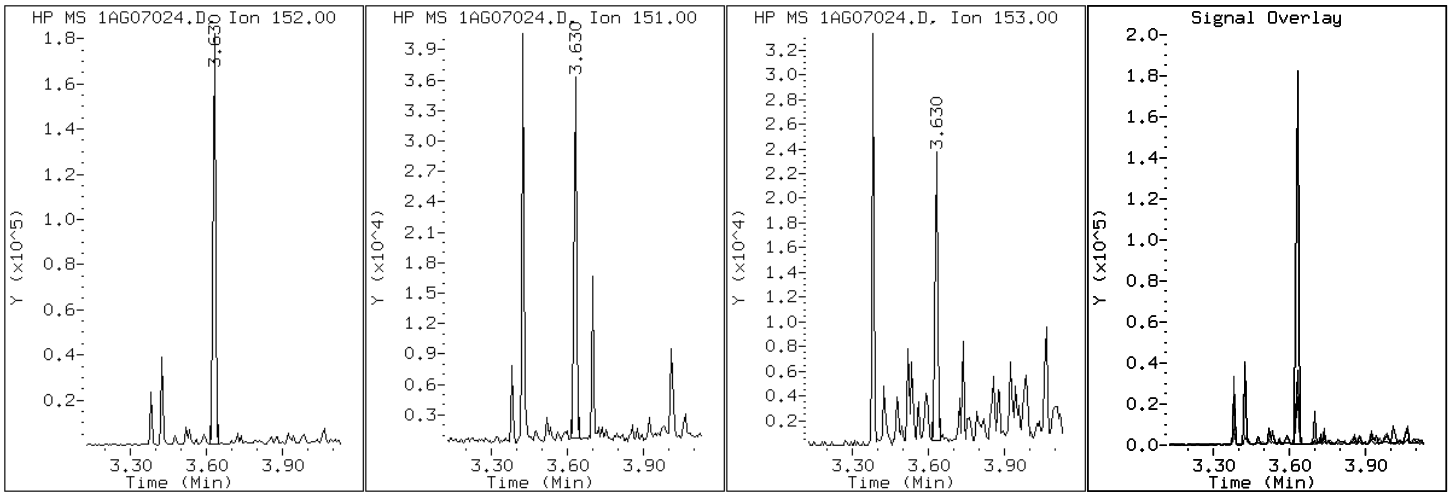
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

6 Acenaphthylene



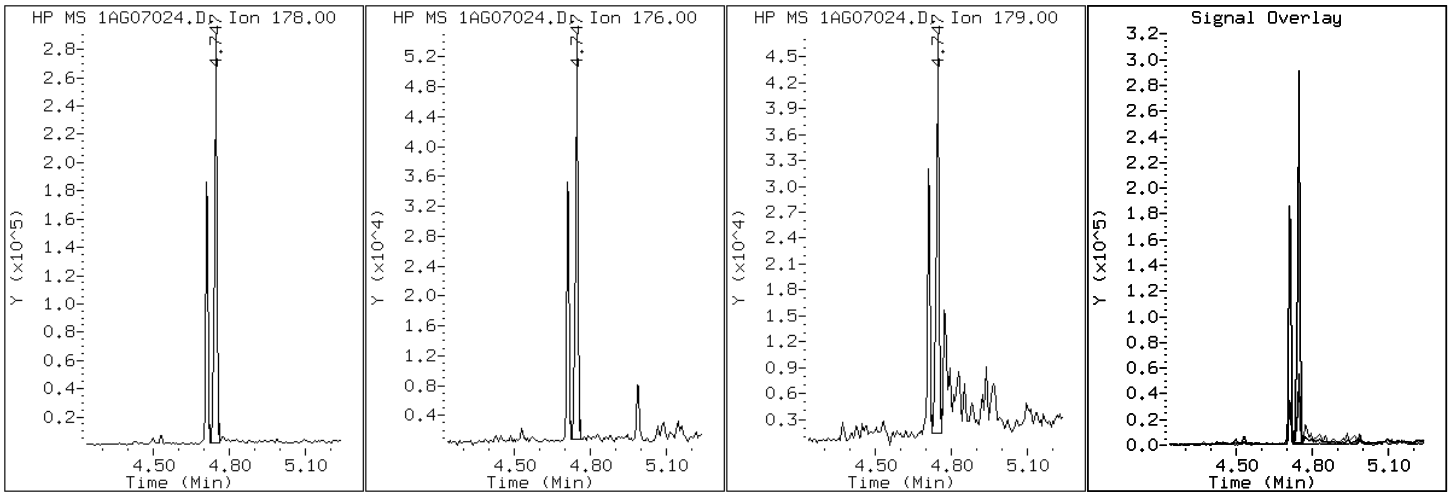
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

13 Anthracene



Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

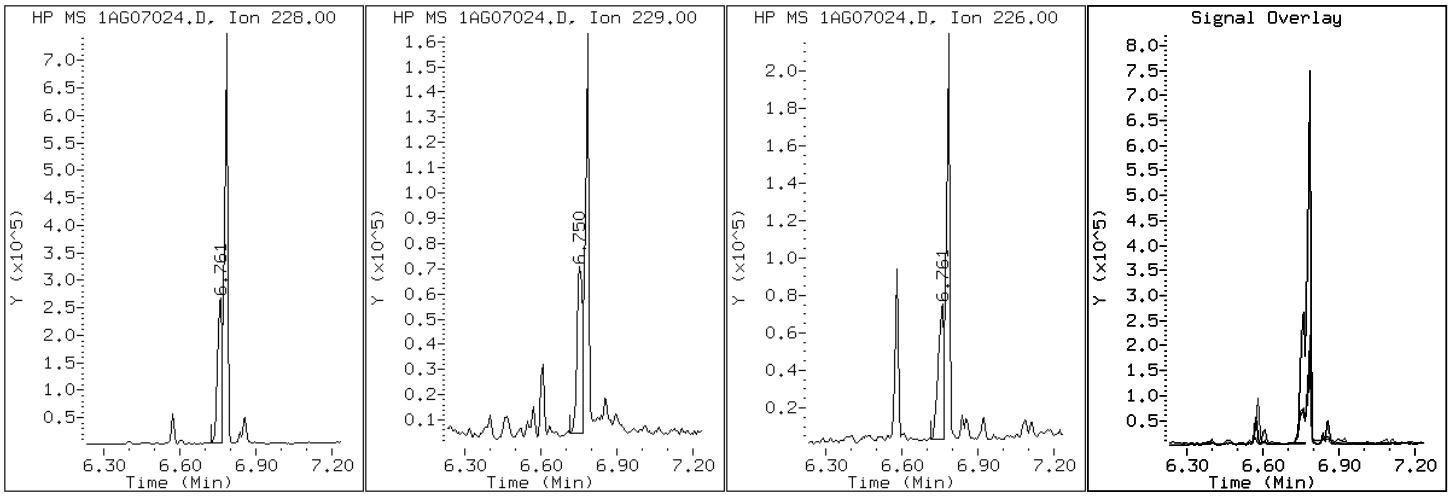
Client ID: CV1363R-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a

Operator: SCC

18 Benzo(a)anthracene



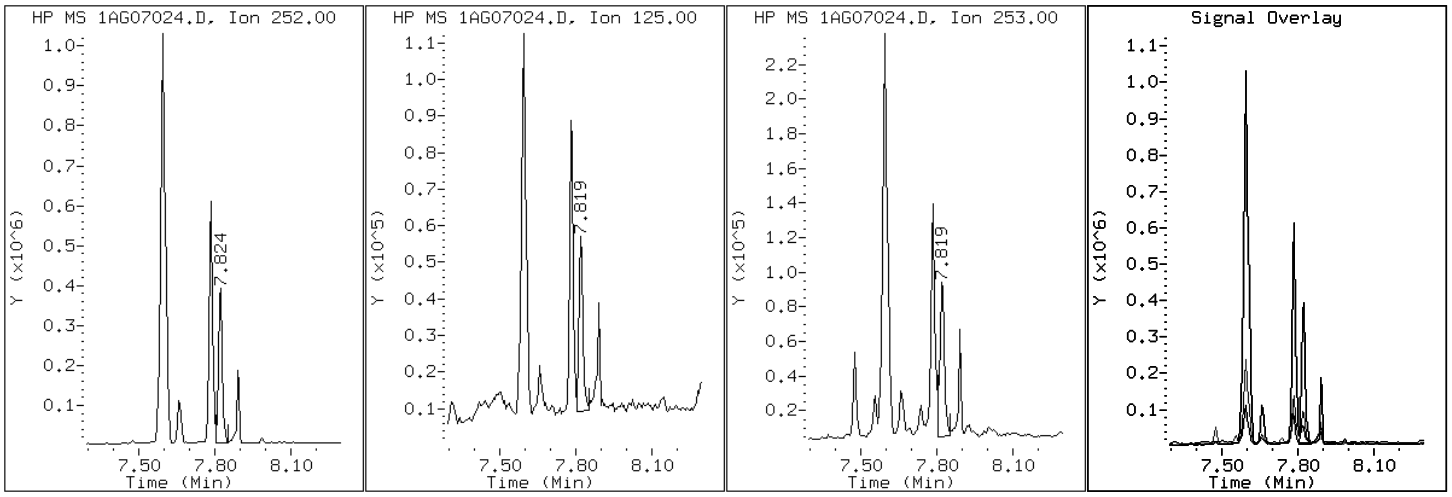
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

23 Benzo(a)pyrene



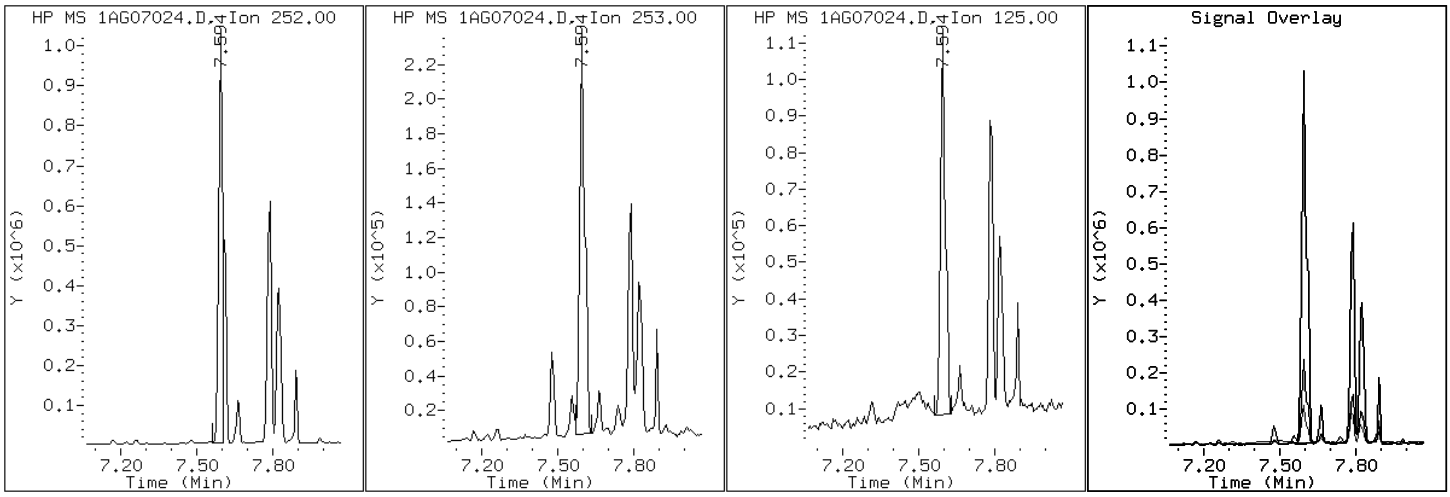
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

21 Benzo(b)fluoranthene



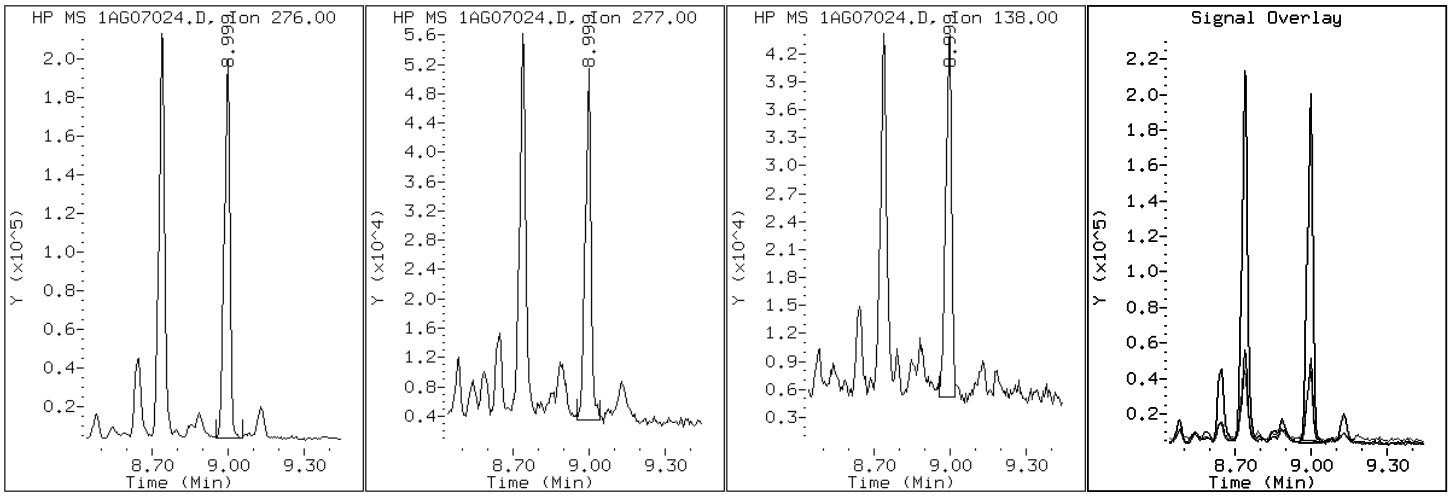
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

27 Benzo(g,h,i)perylene



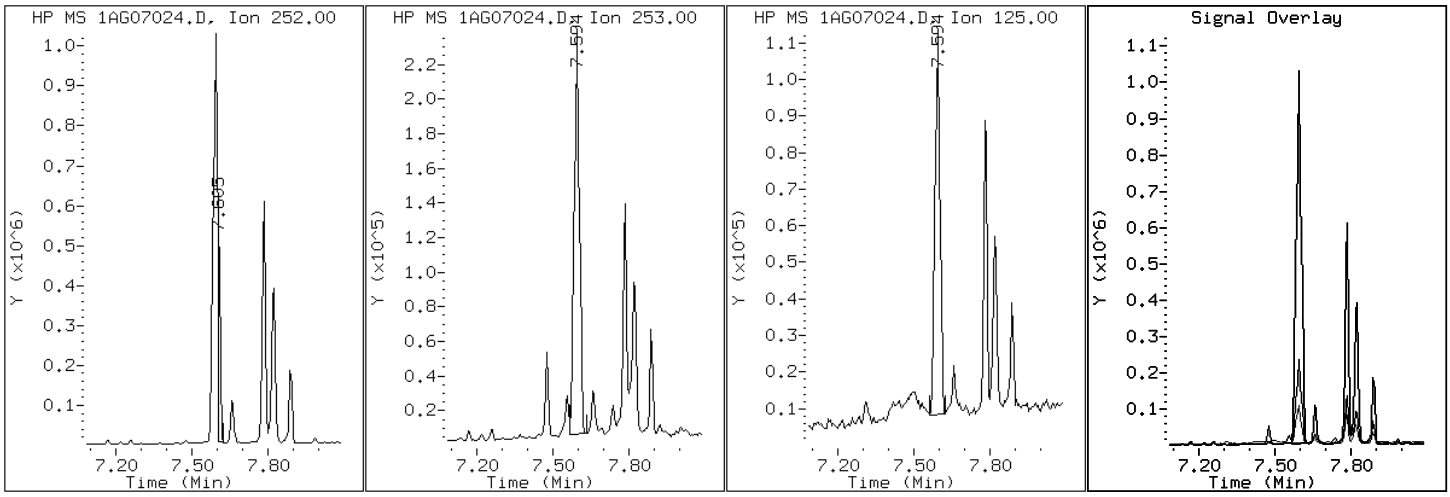
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

22 Benzo(k)fluoranthene



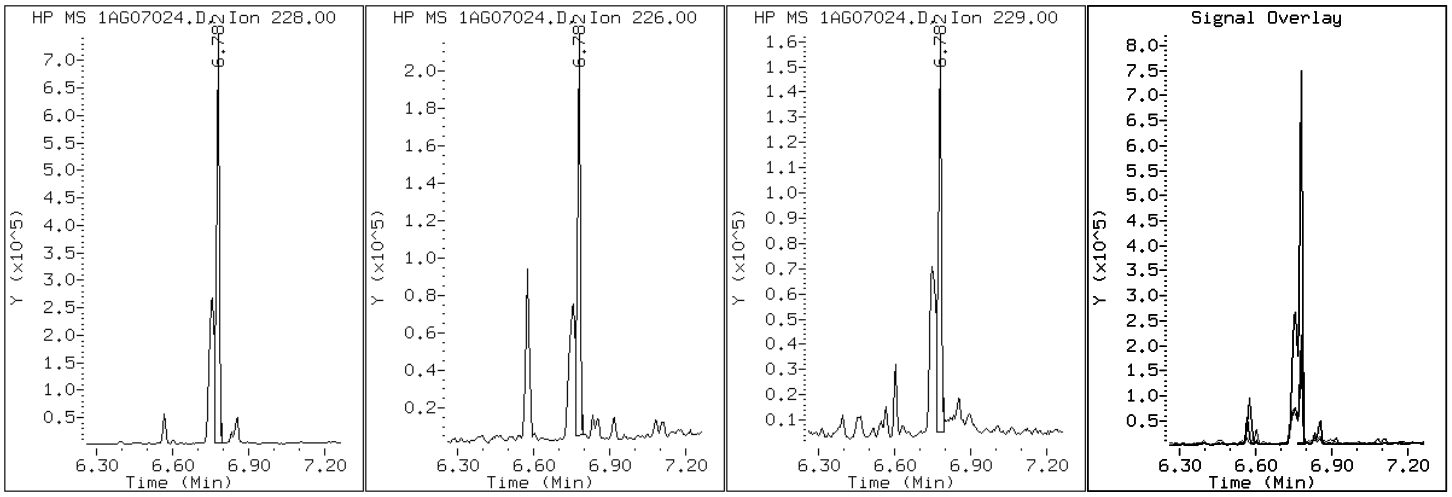
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

20 Chrysene



Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

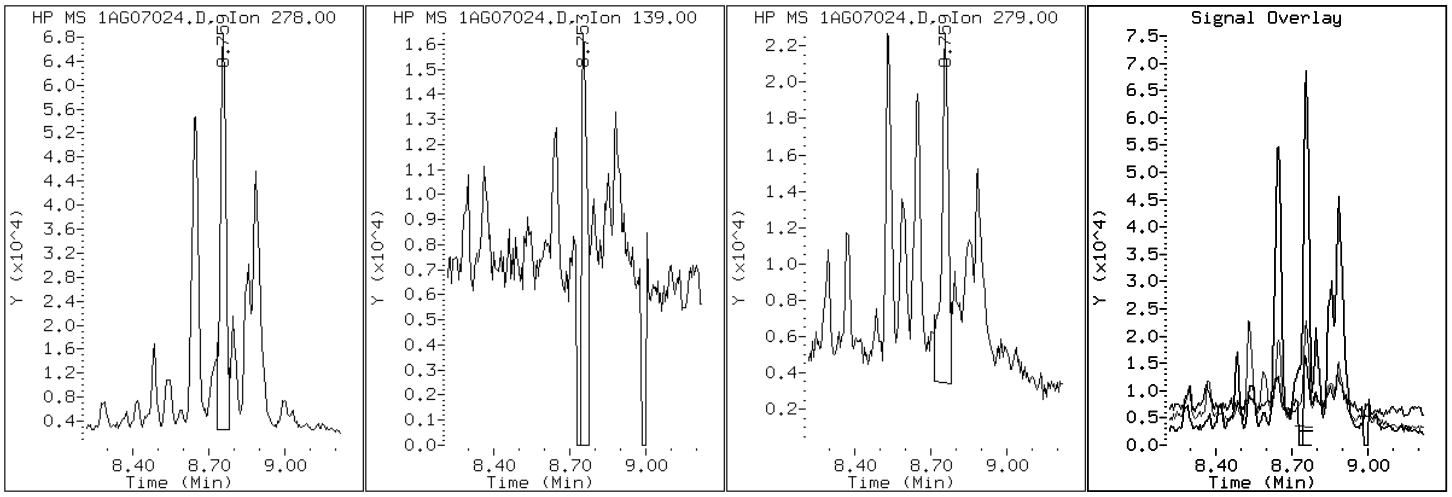
Client ID: CV1363R-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

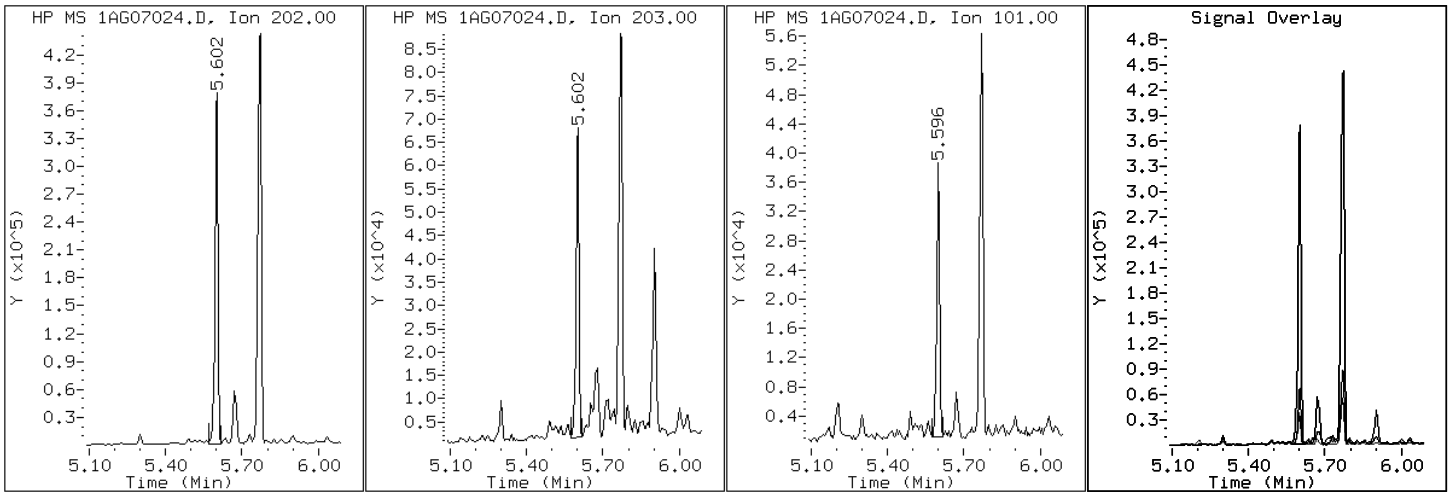
Client ID: CV1363R-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a

Operator: SCC

16 Fluoranthene



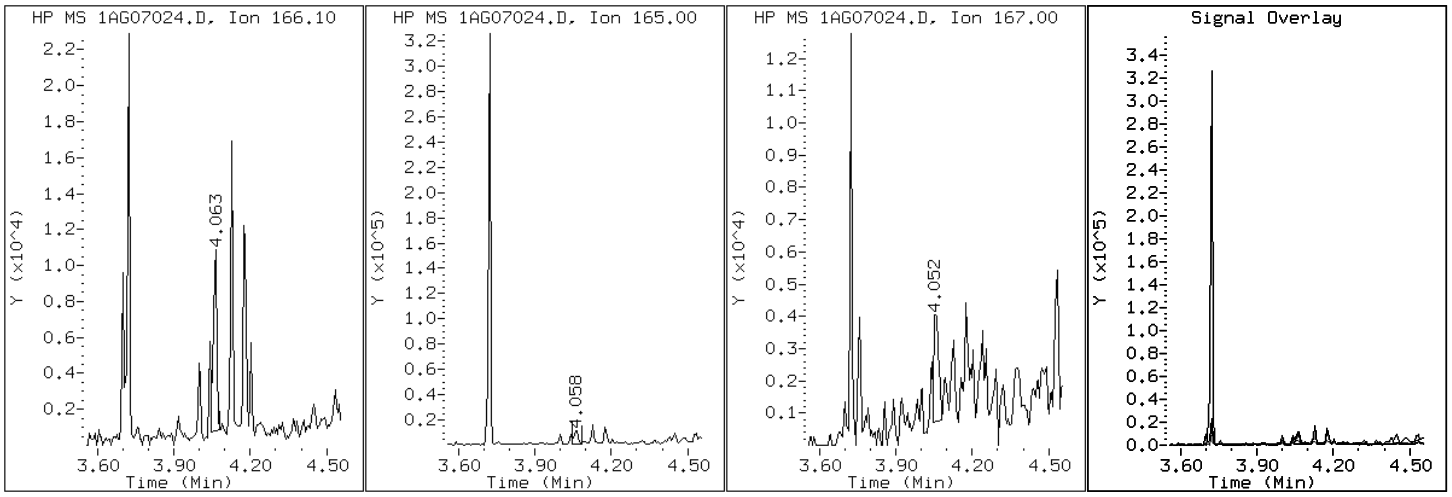
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

10 Fluorene



Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

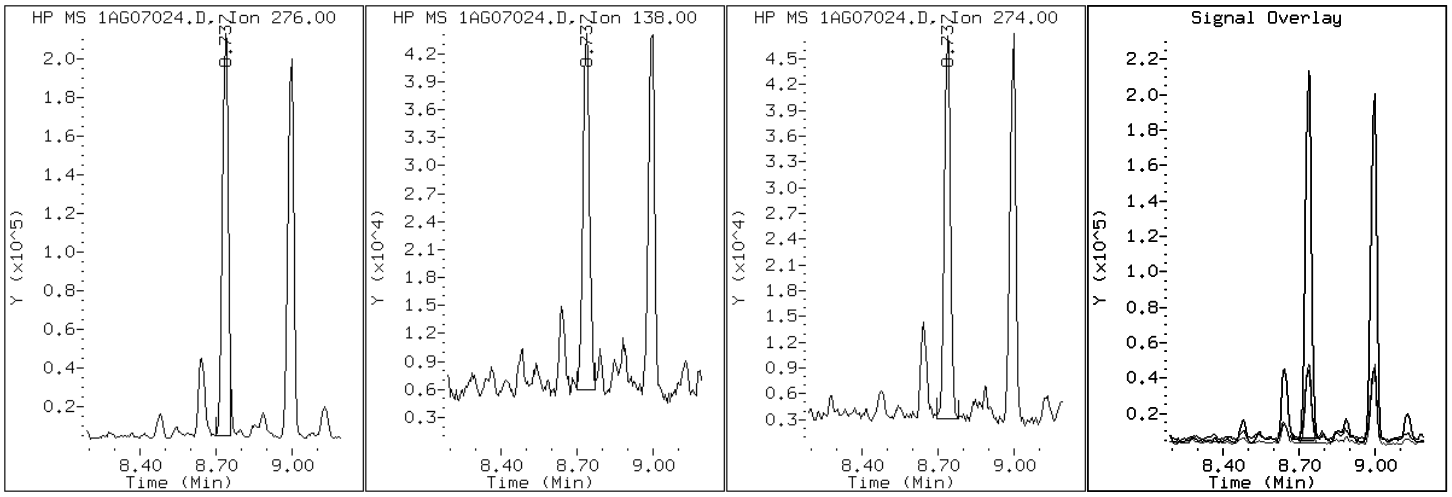
Client ID: CV1363R-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a

Operator: SCC

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



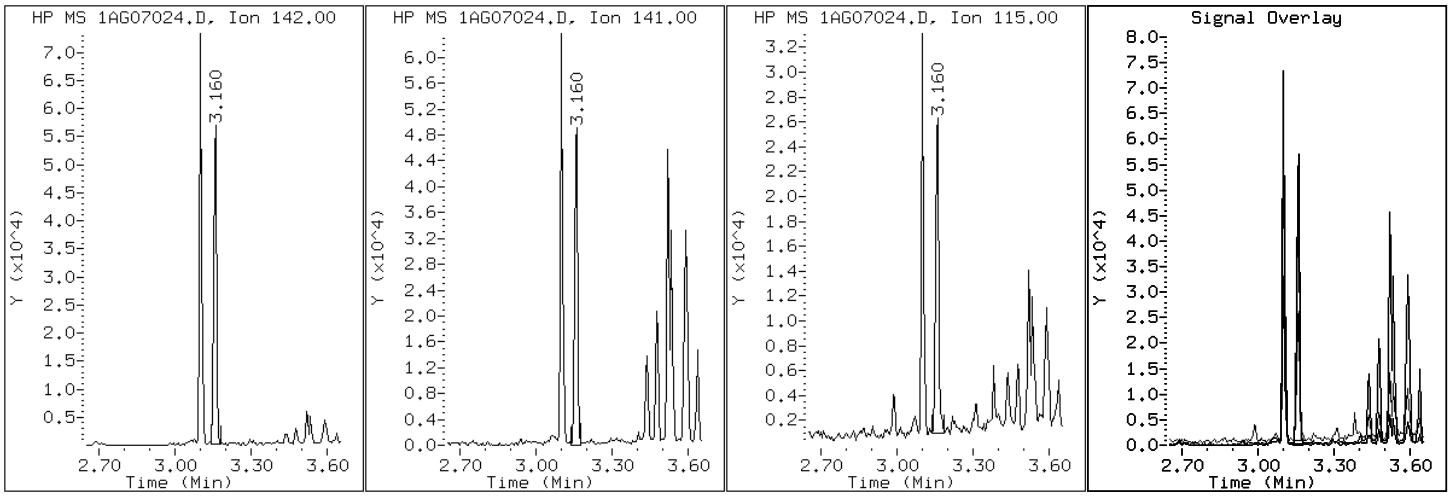
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

4 1-Methylnaphthalene



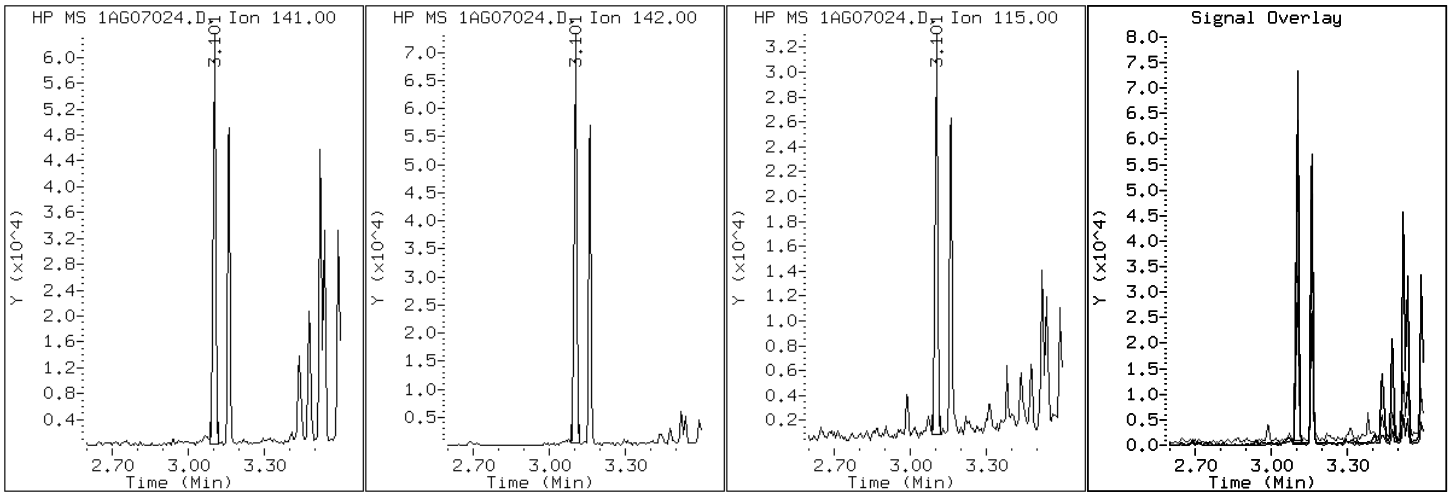
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

3 2-Methylnaphthalene



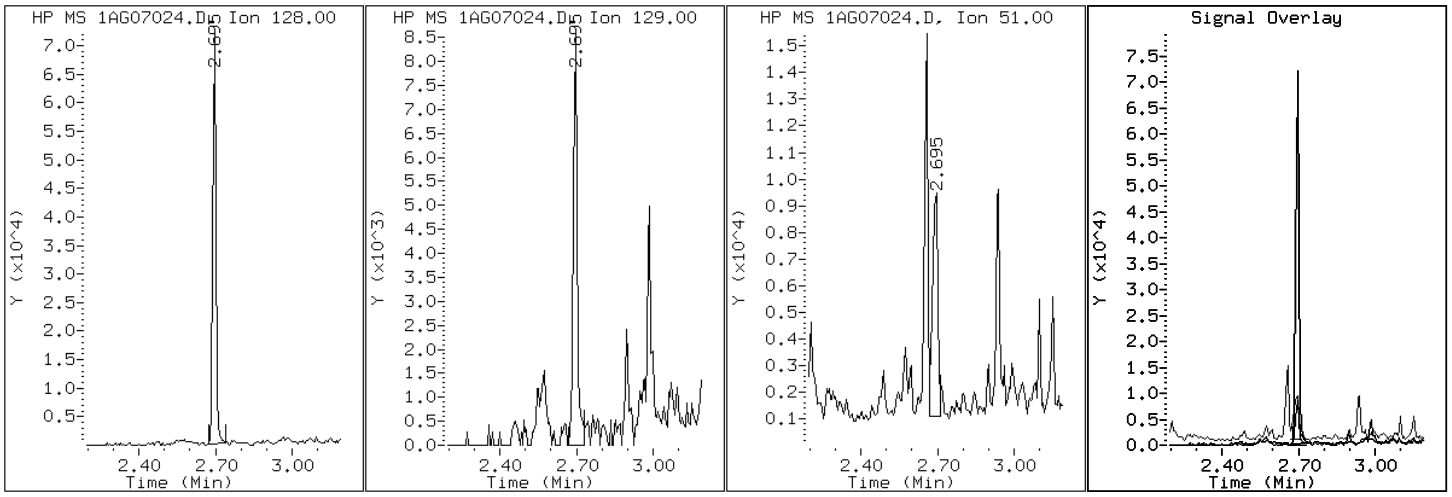
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

2 Naphthalene



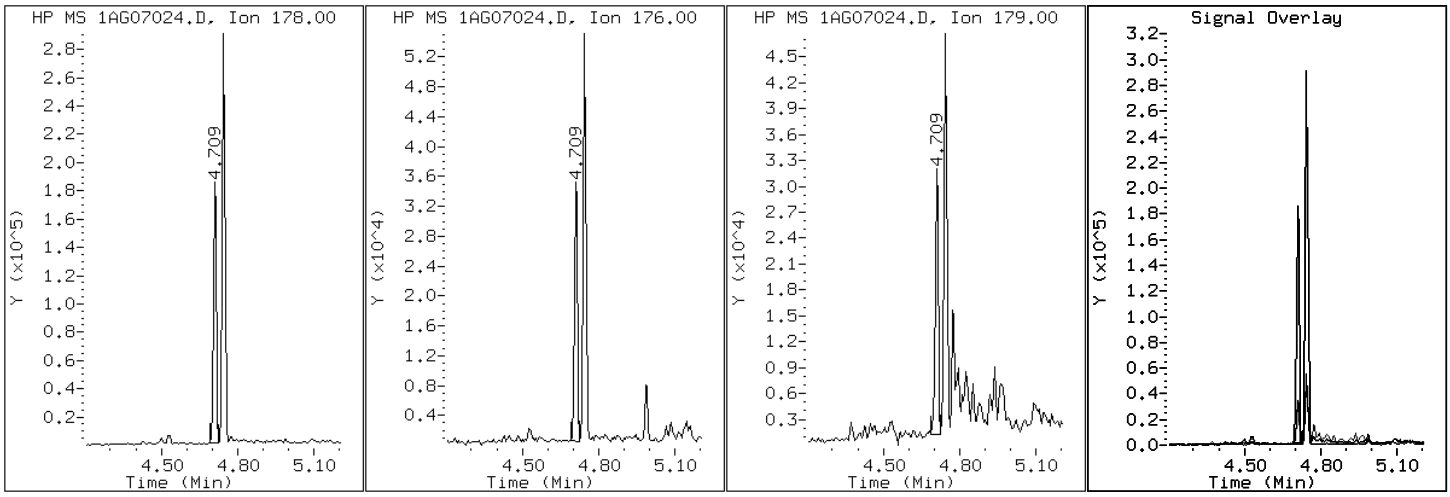
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

12 Phenanthrene



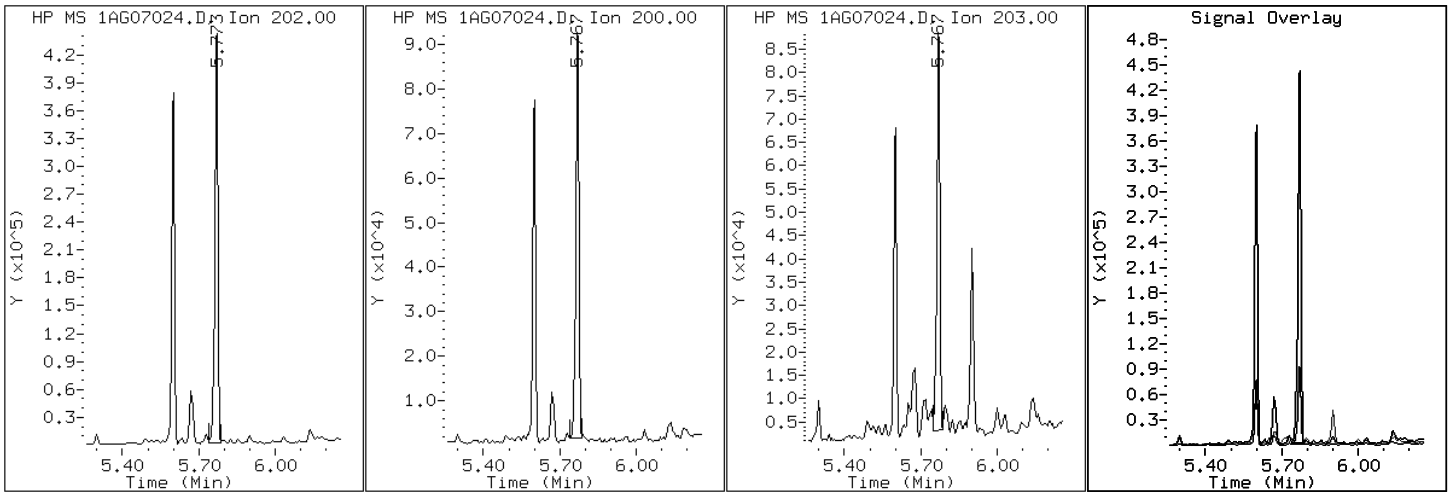
Data File: 1AG07024.D

Date: 07-JUL-2013 19:24

Client ID: CV1363R-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-25-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07024.D
Inj. Date and Time: 07-JUL-2013 19:24
Instrument ID: BSMA5973.i
Client ID: CV1363R-CSD
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

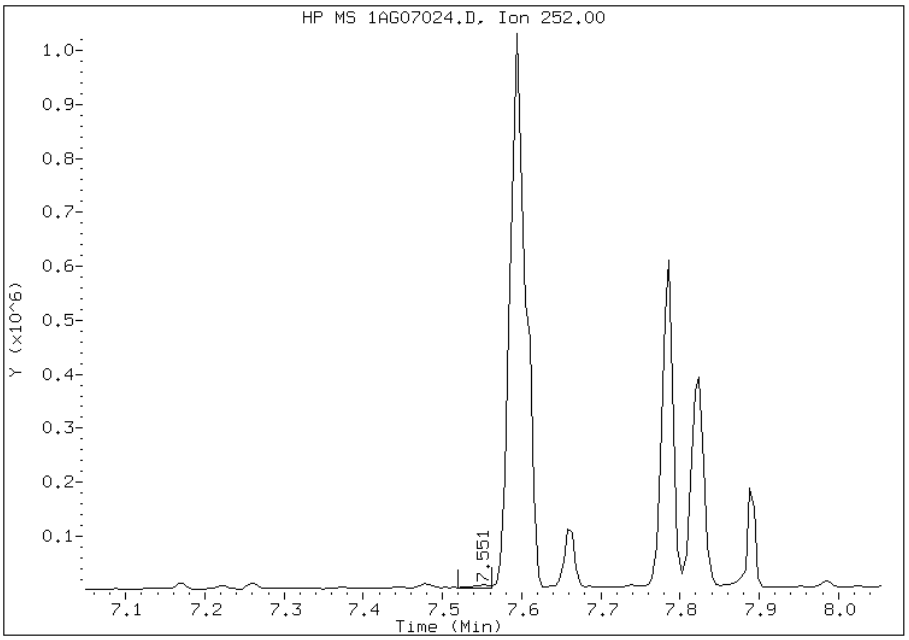
Processing Integration Results

RT: 7.55

Response: 7608

Amount: 0

Conc: 6



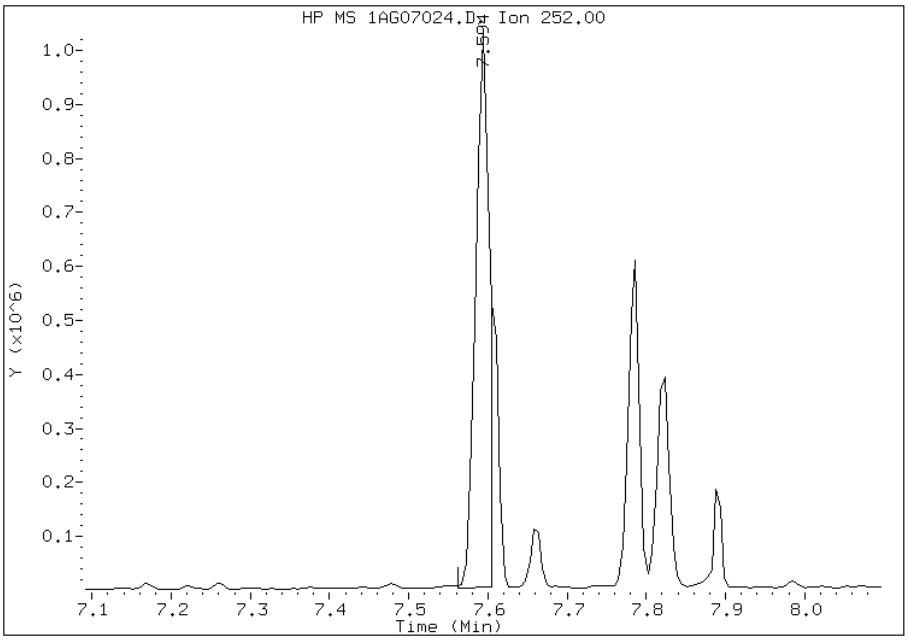
Manual Integration Results

RT: 7.59

Response: 1224730

Amount: 11

Conc: 910



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:08
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07024.D
Inj. Date and Time: 07-JUL-2013 19:24
Instrument ID: BSMA5973.i
Client ID: CV1363R-CSD
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

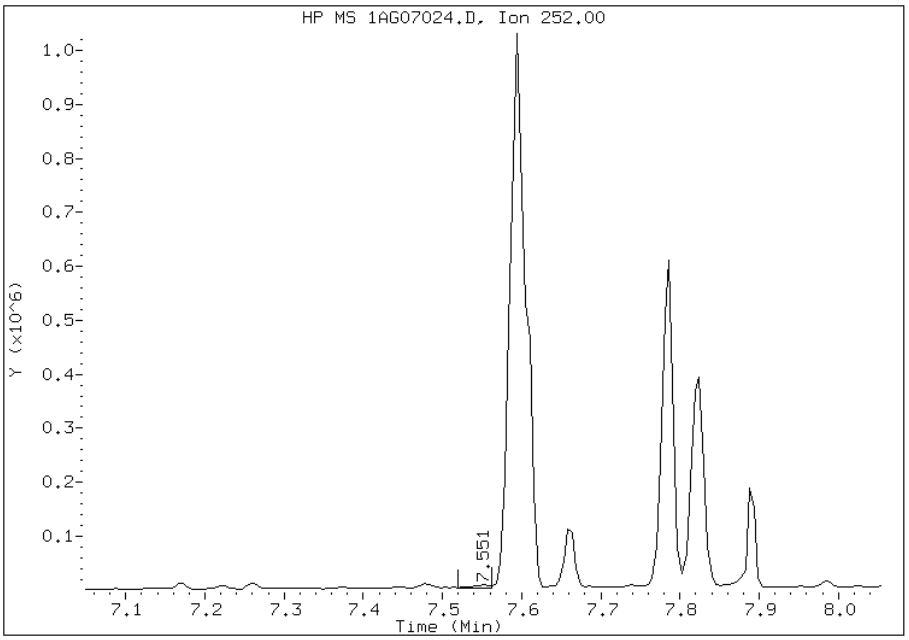
Processing Integration Results

RT: 7.55

Response: 7608

Amount: 0

Conc: 5



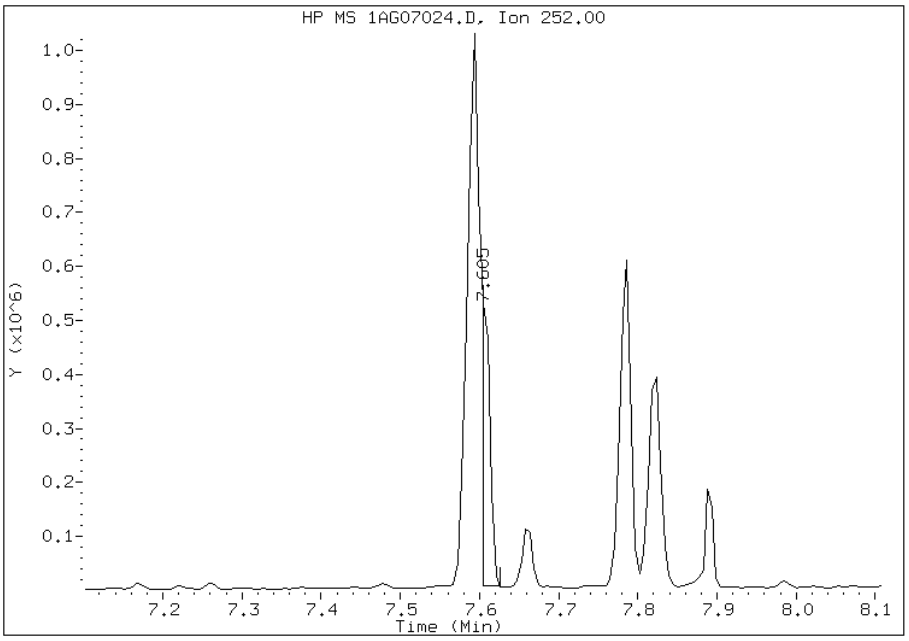
Manual Integration Results

RT: 7.60

Response: 373479

Amount: 3

Conc: 269



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07024.D
Inj. Date and Time: 07-JUL-2013 19:24
Instrument ID: BSMA5973.i
Client ID: CV1363R-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

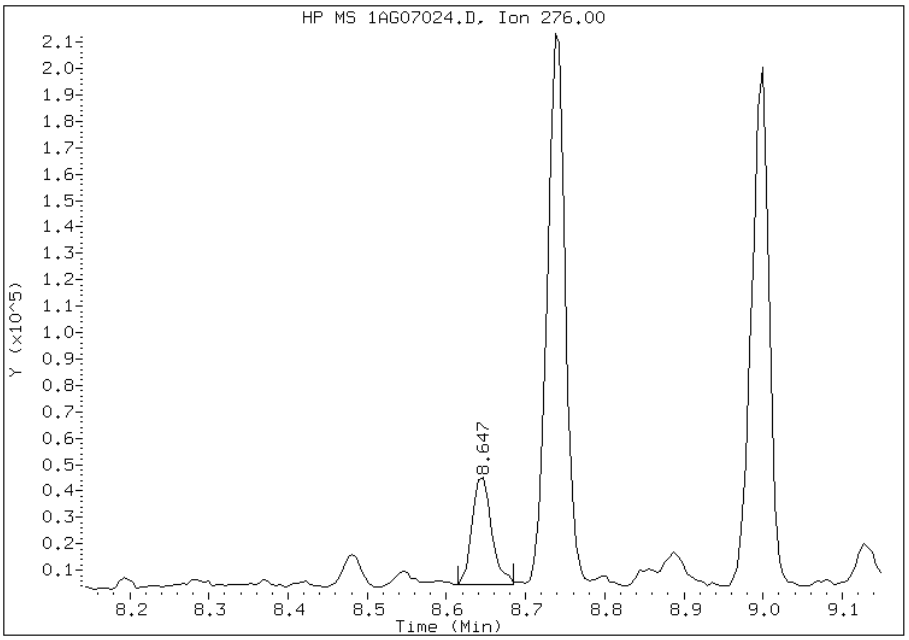
Processing Integration Results

RT: 8.65

Response: 68946

Amount: 1

Conc: 63



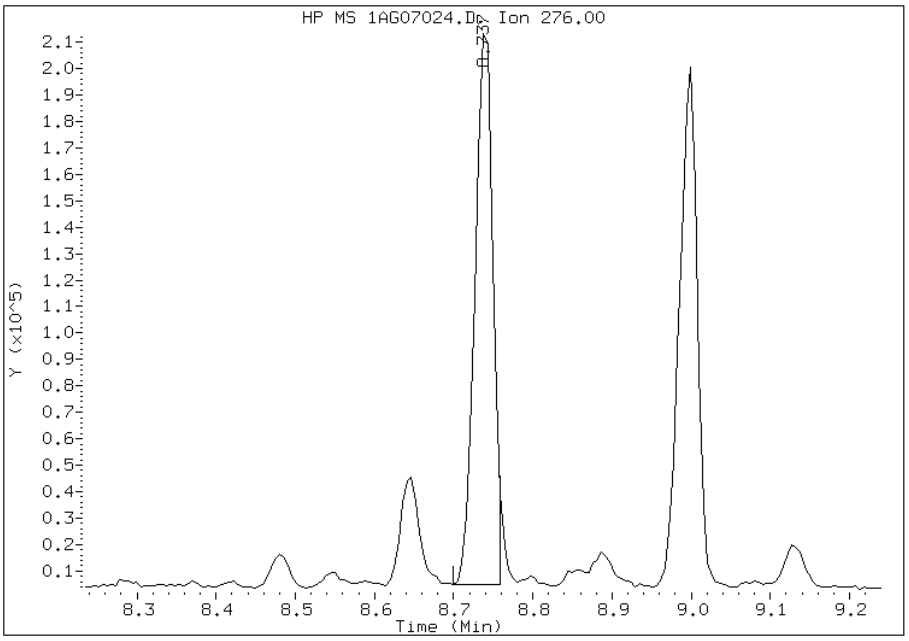
Manual Integration Results

RT: 8.74

Response: 326986

Amount: 4

Conc: 301



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363S-CS | Lab Sample ID: 680-91719-26

Matrix: Solid | Lab File ID: 1AG07025.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 11:10

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 14.98(g) | Date Analyzed: 07/07/2013 19:39

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.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	39	J	45	5.7
120-12-7	Anthracene	51		9.5	4.8
56-55-3	Benzo[a]anthracene	130		9.1	4.4
50-32-8	Benzo[a]pyrene	120		12	5.9
205-99-2	Benzo[b]fluoranthene	200		14	6.9
191-24-2	Benzo[g,h,i]perylene	120		23	5.0
207-08-9	Benzo[k]fluoranthene	65		9.1	4.1
218-01-9	Chrysene	170		10	5.1
53-70-3	Dibenz(a,h)anthracene	40		23	4.6
206-44-0	Fluoranthene	200		23	4.5
86-73-7	Fluorene	8.0	J	23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	95		23	8.0
90-12-0	1-Methylnaphthalene	76		45	5.0
91-57-6	2-Methylnaphthalene	84		45	8.0
91-20-3	Naphthalene	64		45	5.0
85-01-8	Phenanthrene	150		9.1	4.4
129-00-0	Pyrene	140		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	56		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07025.D
Lab Smp Id: 680-91719-A-26-A Client Smp ID: CV1363S-CS
Inj Date : 07-JUL-2013 19:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-26-a
Misc Info : 680-91719-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	11.671	% 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	2.685	2.683	(1.000)	2672166	40.0000	
* 7 Acenaphthene-d10	164	3.721	3.714	(1.000)	1565191	40.0000	
* 11 Phenanthrene-d10	188	4.704	4.692	(1.000)	2303976	40.0000	
$ 15 o-Terphenyl	230	4.993	4.986	(1.061)	195081	5.57206	421.1128
* 19 Chrysene-d12	240	6.767	6.748	(1.000)	2893698	40.0000	
* 24 Perylene-d12	264	7.883	7.849	(1.000)	3937252	40.0000	(H)
2 Naphthalene	128	2.696	2.694	(1.004)	51087	0.84617	63.9499
3 2-Methylnaphthalene	141	3.102	3.100	(1.155)	38283	1.11142	83.9961
4 1-Methylnaphthalene	142	3.161	3.153	(1.177)	40205	0.99960	75.5457
6 Acenaphthylene	152	3.631	3.629	(0.976)	36477	0.52244	39.4838
10 Fluorene	166	4.063	4.056	(1.092)	5165	0.10551	7.9737
12 Phenanthrene	178	4.715	4.708	(1.002)	118427	2.01963	152.6349
13 Anthracene	178	4.747	4.740	(1.009)	41246	0.67454	50.9792
16 Fluoranthene	202	5.602	5.589	(1.191)	185484	2.62874	198.6691

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.773	5.760	(0.853)	174840	1.81494	137.1656
18 Benzo(a)anthracene	228	6.761	6.732	(0.999)	171105	1.75900	132.9376
20 Chrysene	228	6.783	6.764	(1.002)	174579	2.22708	168.3129
21 Benzo(b)fluoranthene	252	7.589	7.566	(0.963)	291005	2.59640	196.2252(MH)
22 Benzo(k)fluoranthene	252	7.600	7.587	(0.964)	98882	0.85445	64.5760(QMH)
23 Benzo(a)pyrene	252	7.819	7.795	(0.992)	169527	1.63557	123.6093(H)
25 Indeno(1,2,3-cd)pyrene	276	8.738	8.693	(1.108)	113559	1.25650	94.9610(MH)
26 Dibenzo(a,h)anthracene	278	8.754	8.720	(1.110)	44701	0.52312	39.5350(H)
27 Benzo(g,h,i)perylene	276	8.994	8.944	(1.141)	139467	1.62762	123.0089(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: 1AG07025.D

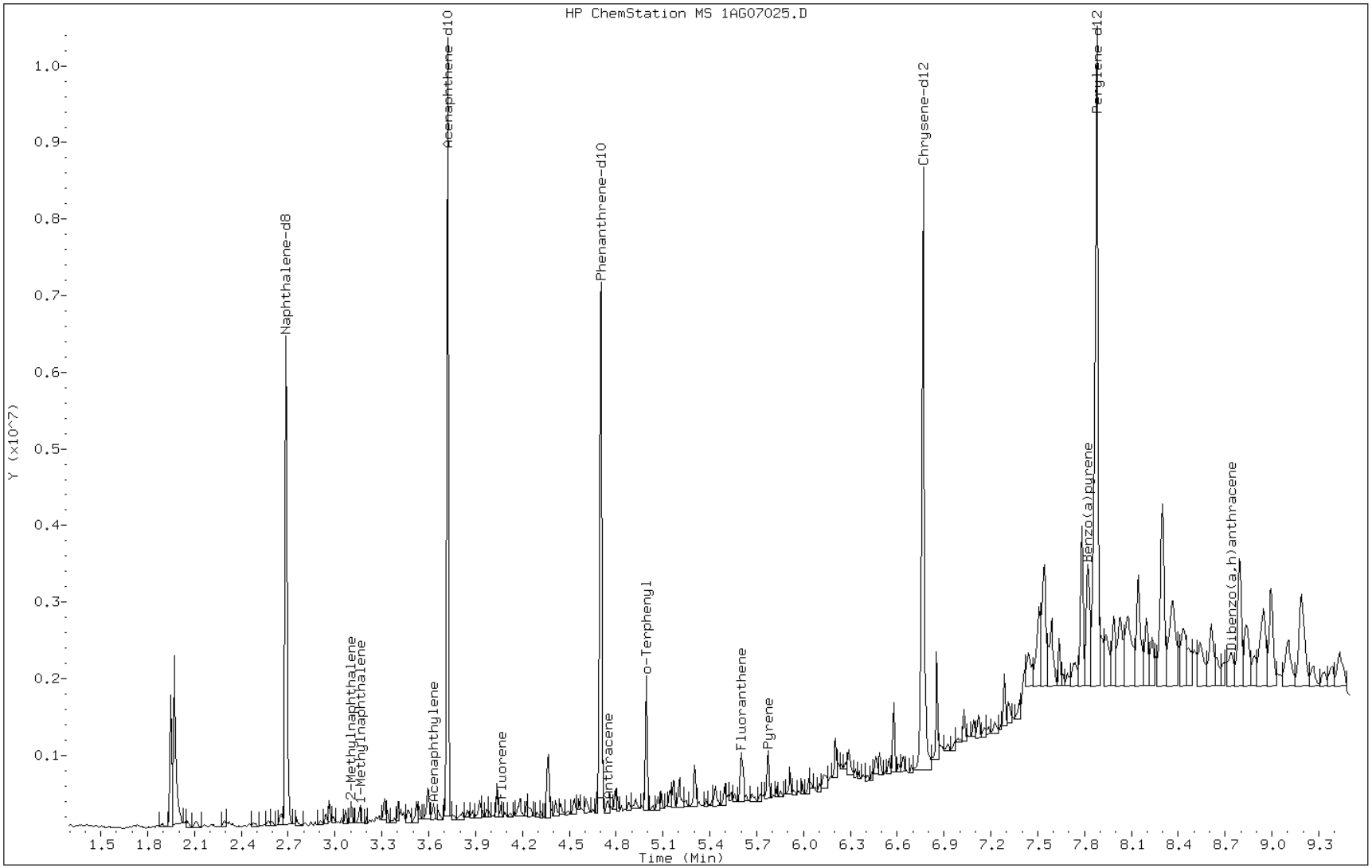
Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a

Operator: SCC



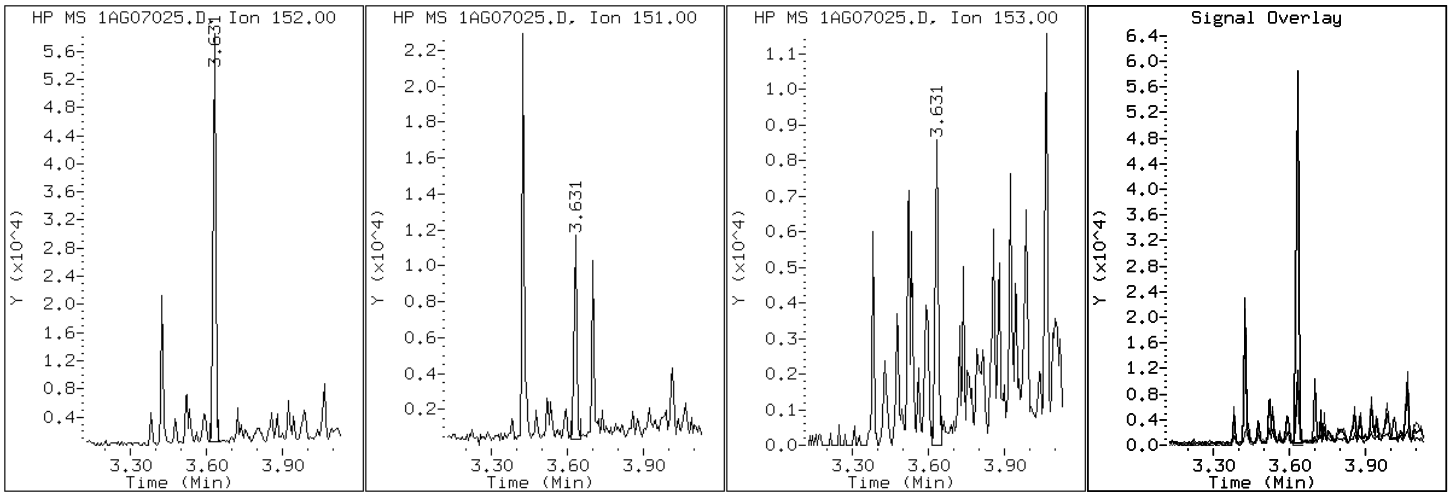
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

6 Acenaphthylene



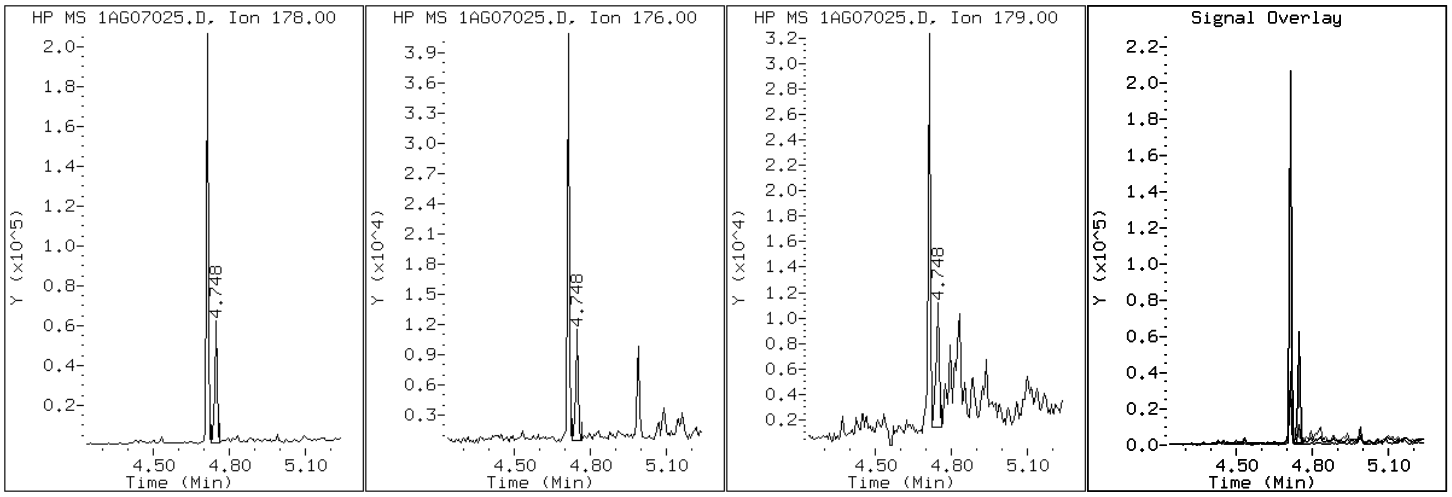
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

13 Anthracene



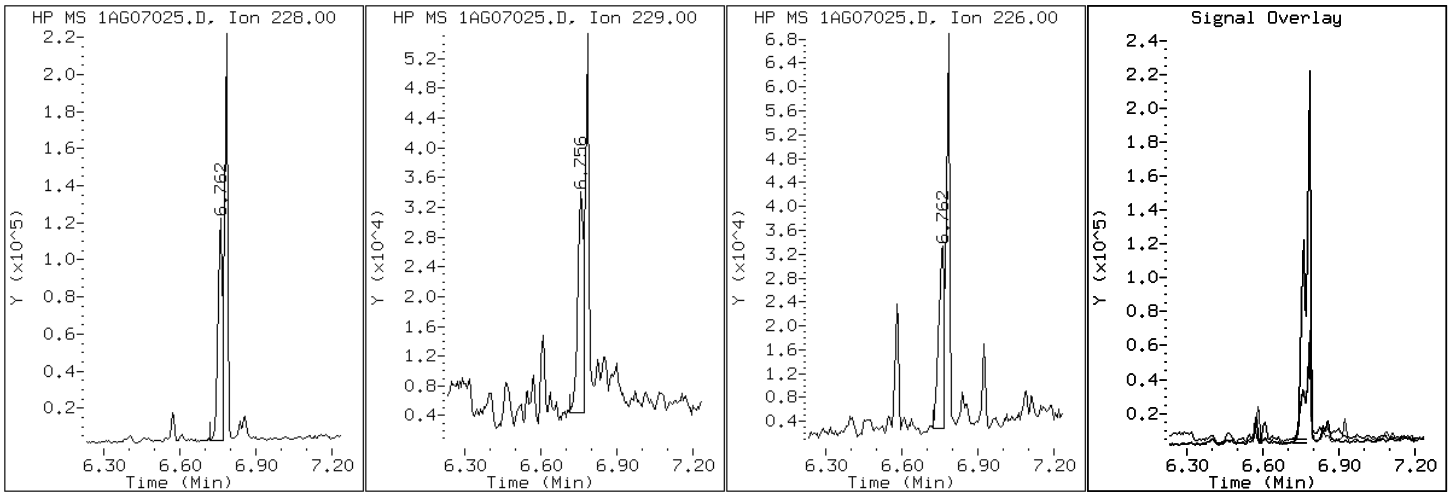
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

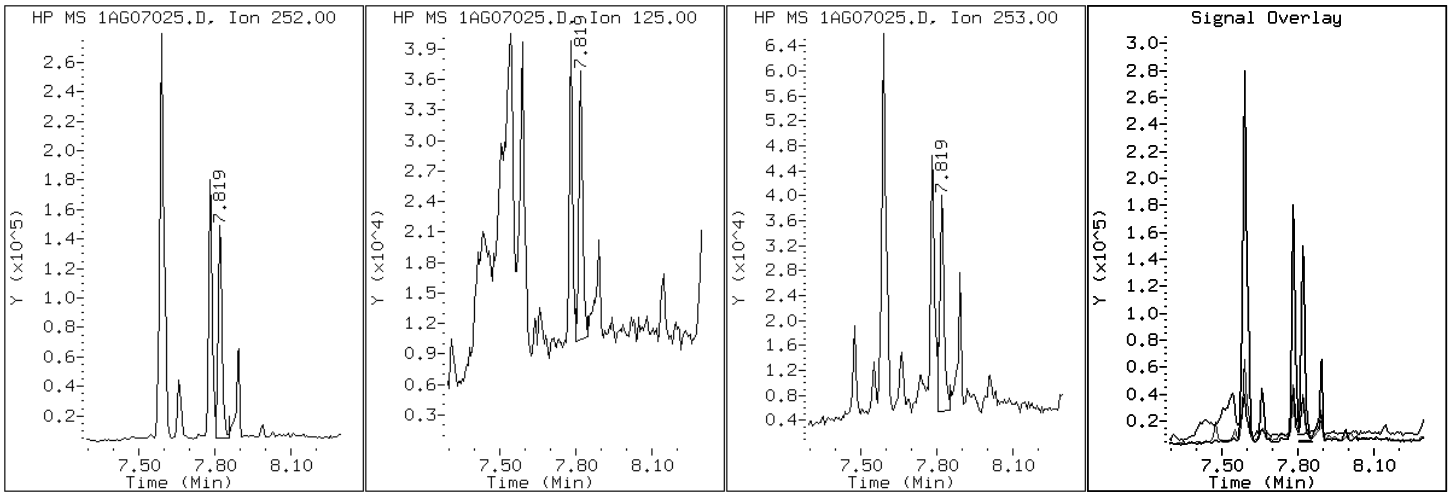
Client ID: CV1363S-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a

Operator: SCC

23 Benzo(a)pyrene



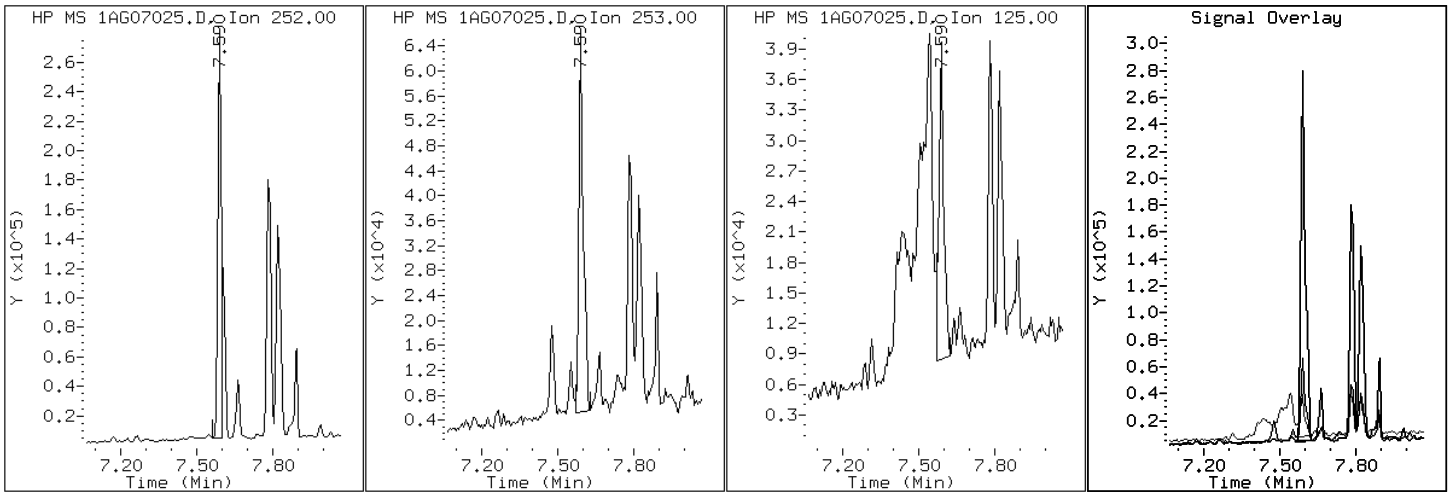
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

21 Benzo(b)fluoranthene



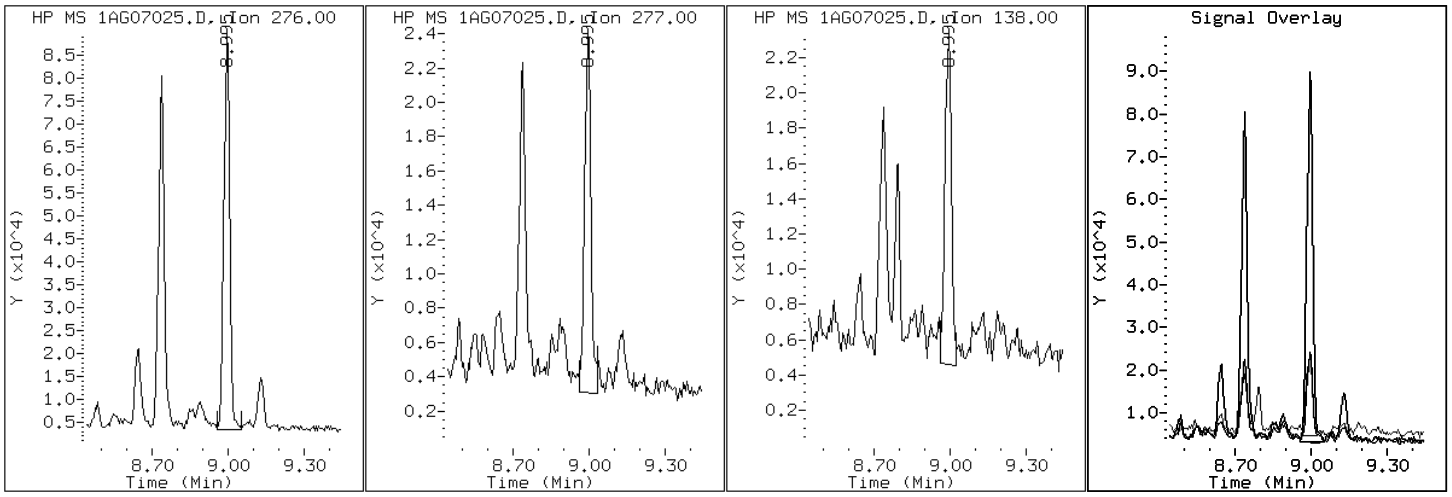
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

27 Benzo(g,h,i)perylene



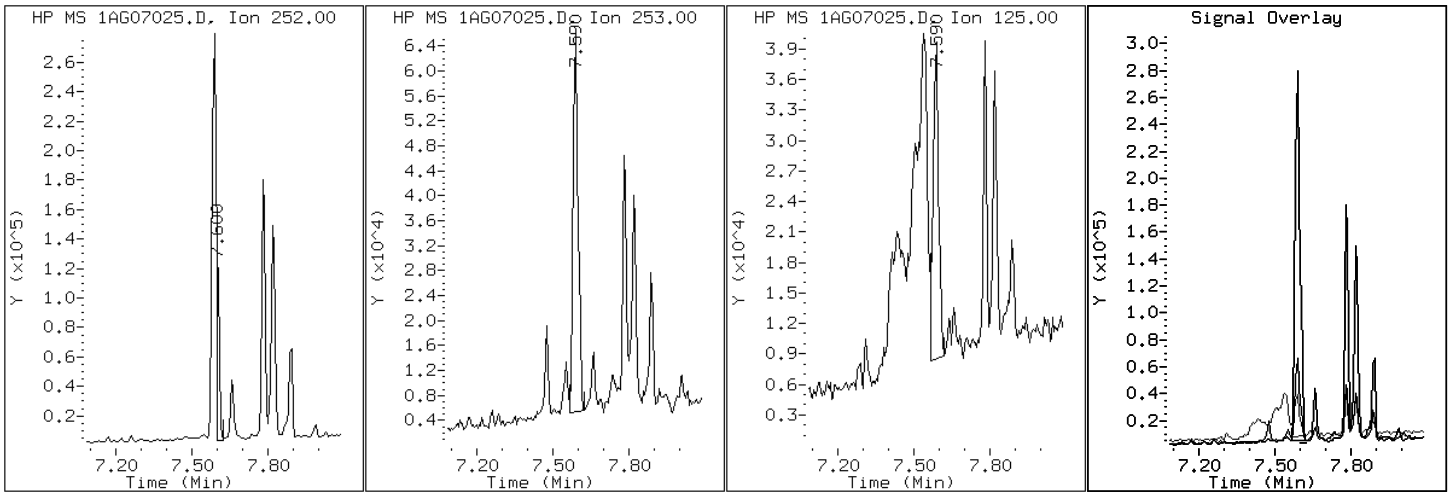
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

22 Benzo(k)fluoranthene



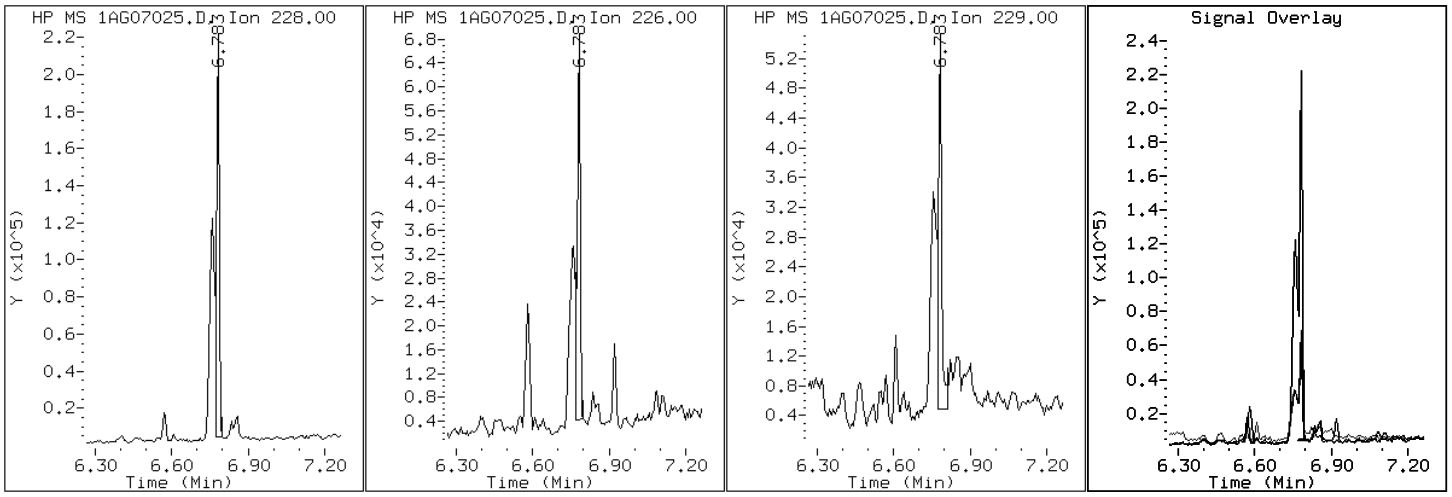
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

20 Chrysene



Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

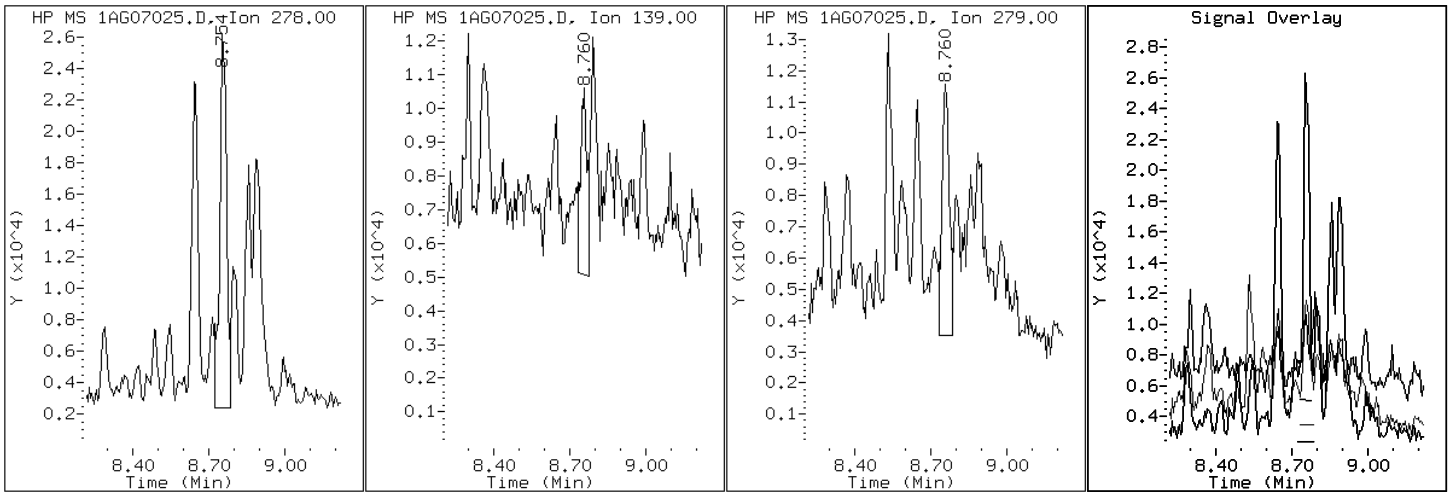
Client ID: CV1363S-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a

Operator: SCC

26 Dibenzo(a,h)anthracene



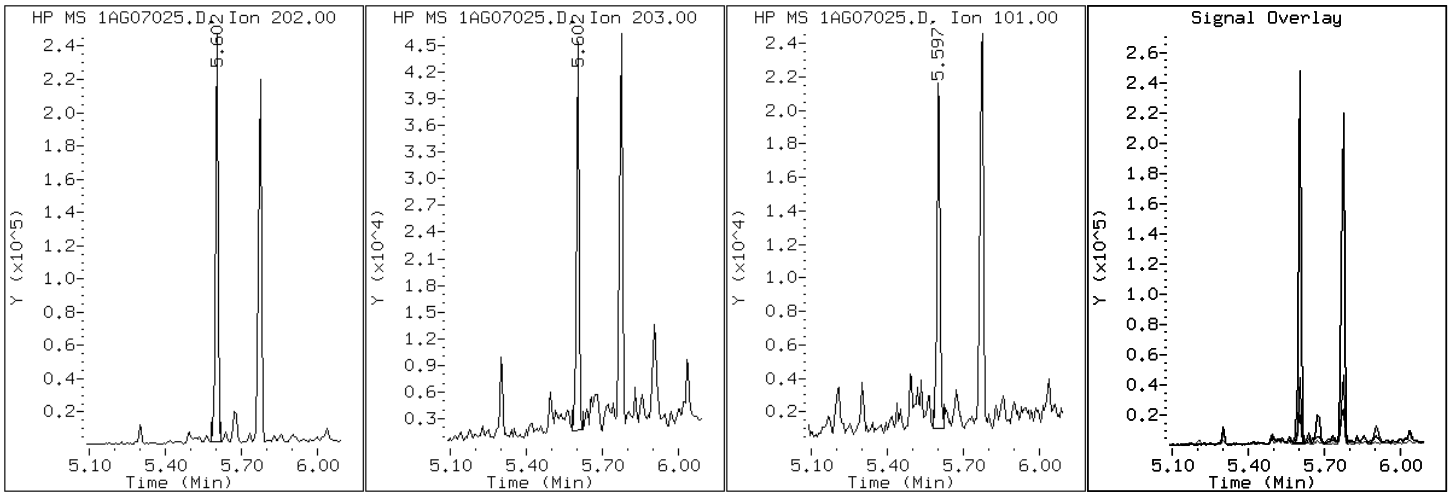
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

16 Fluoranthene



Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

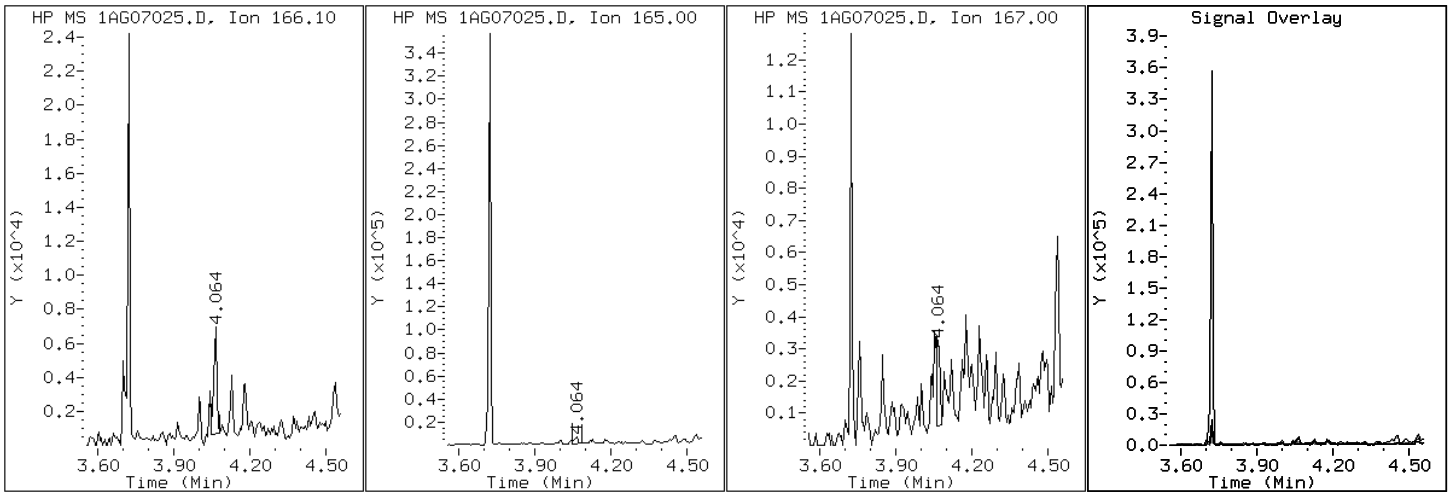
Client ID: CV1363S-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a

Operator: SCC

10 Fluorene



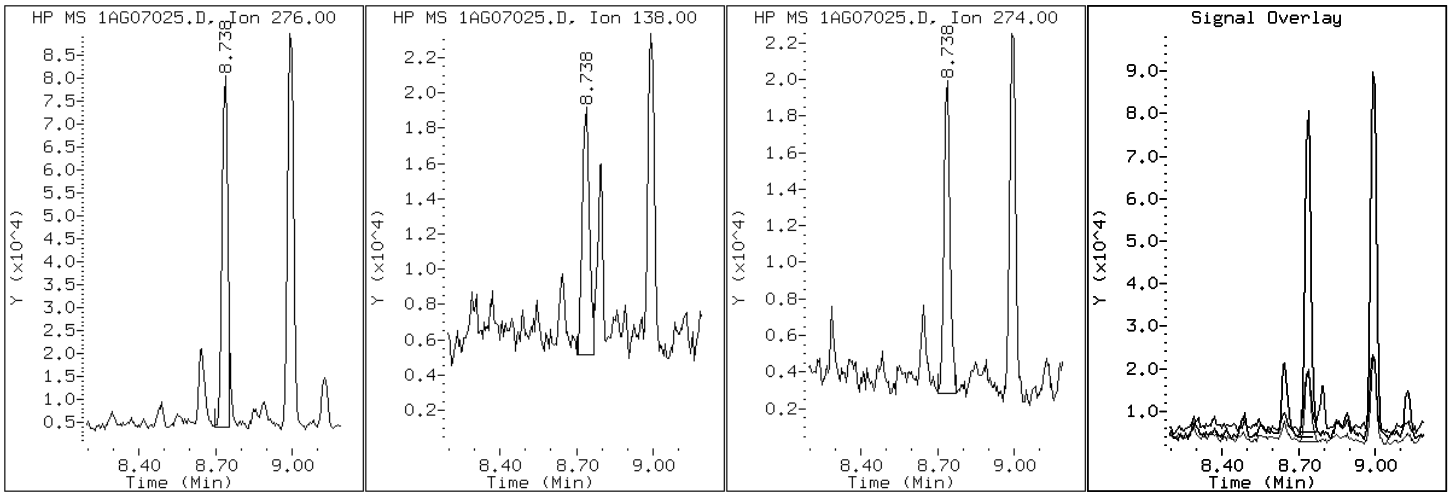
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

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



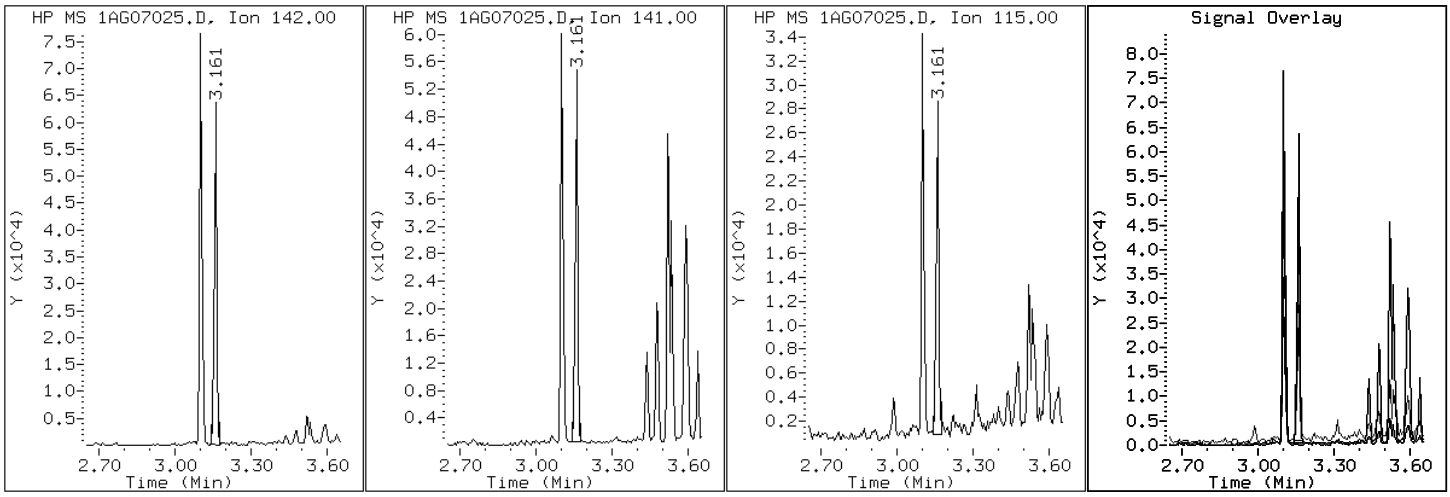
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

4 1-Methylnaphthalene



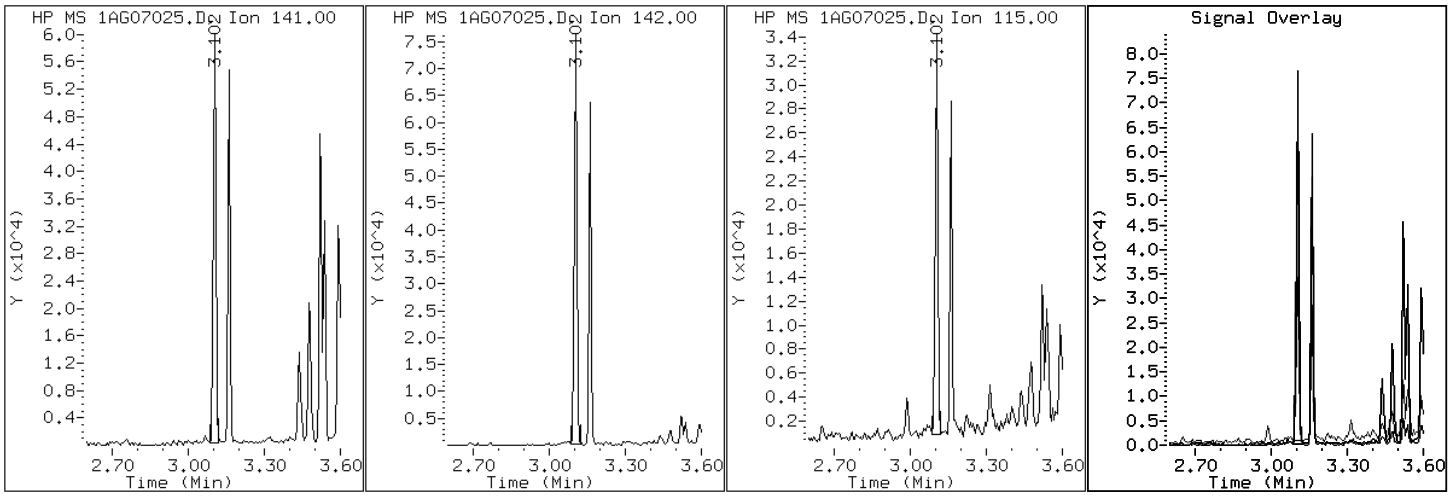
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

3 2-Methylnaphthalene



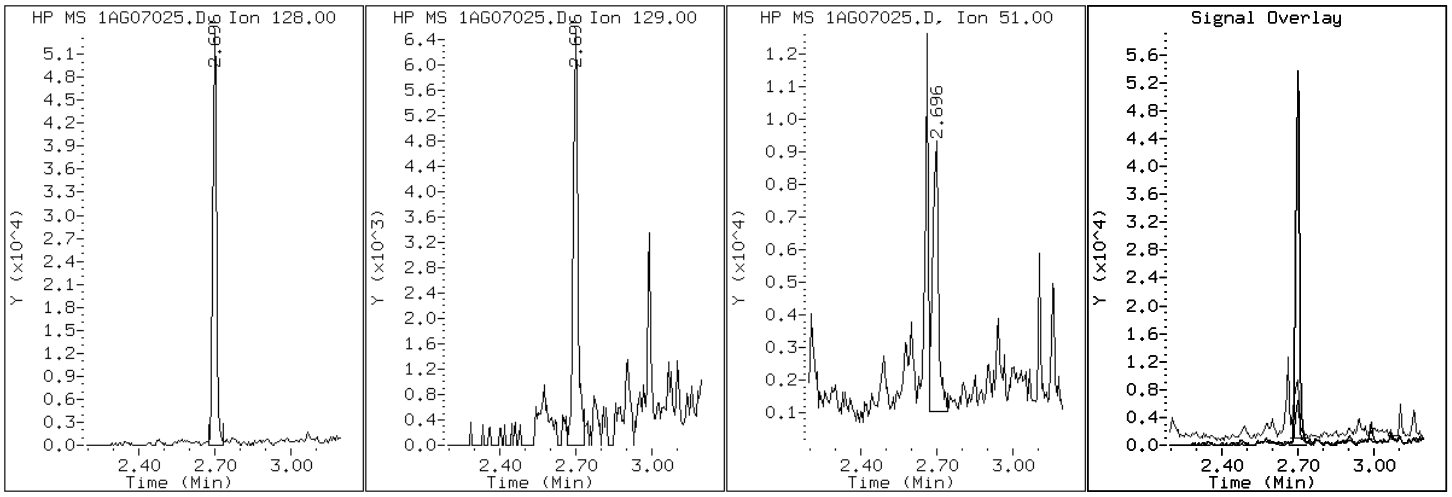
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

2 Naphthalene



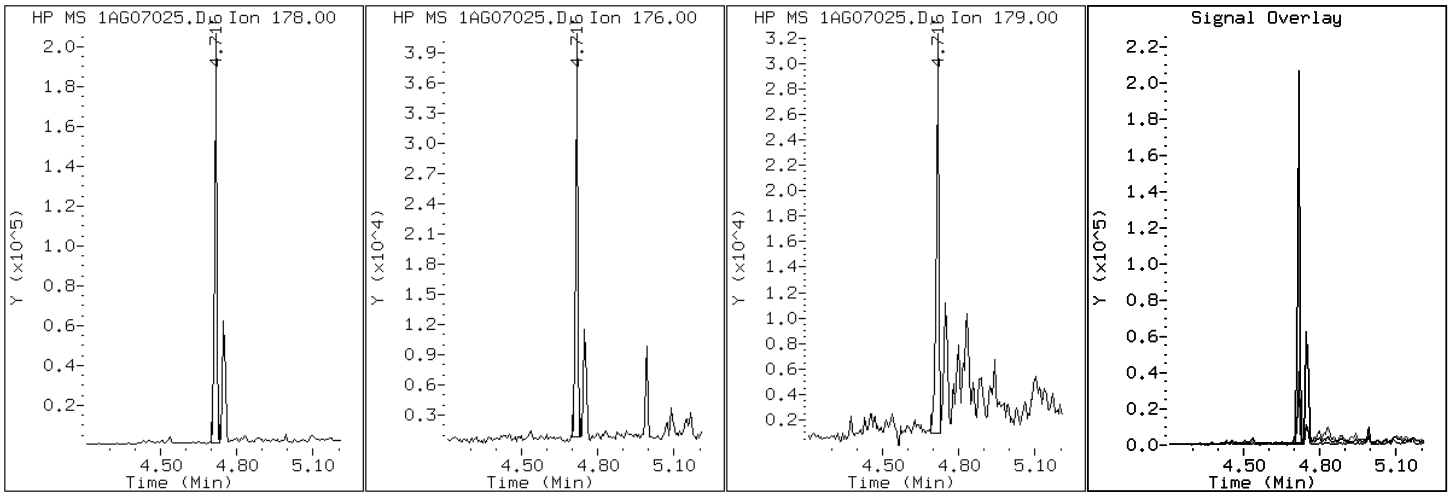
Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

Client ID: CV1363S-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a Operator: SCC

12 Phenanthrene



Data File: 1AG07025.D

Date: 07-JUL-2013 19:39

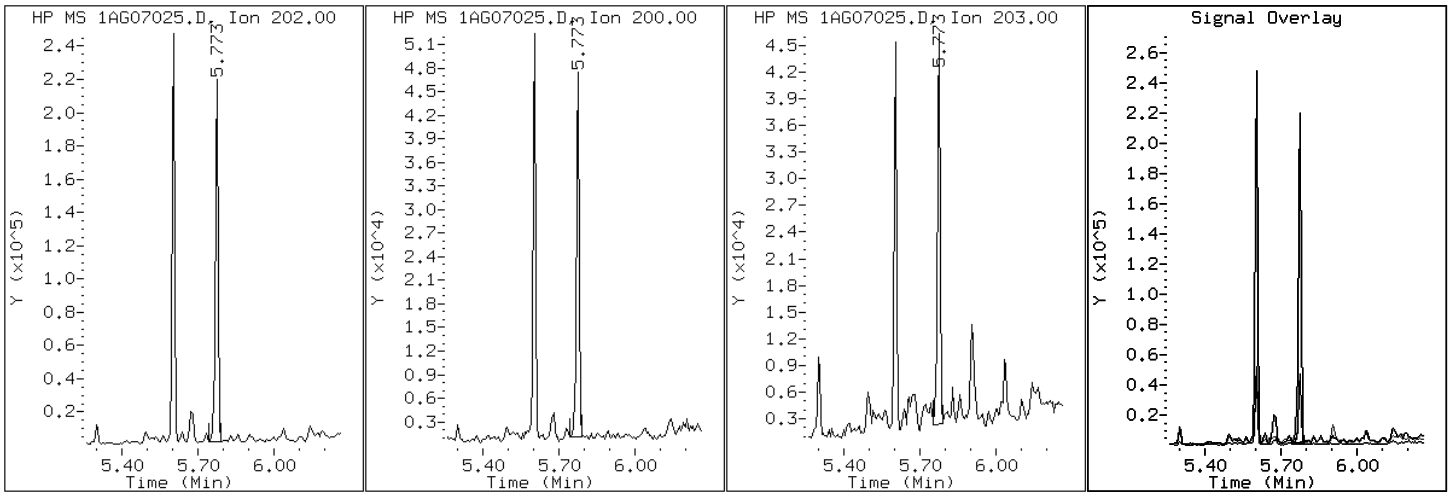
Client ID: CV1363S-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-26-a

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07025.D
Inj. Date and Time: 07-JUL-2013 19:39
Instrument ID: BSMA5973.i
Client ID: CV1363S-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

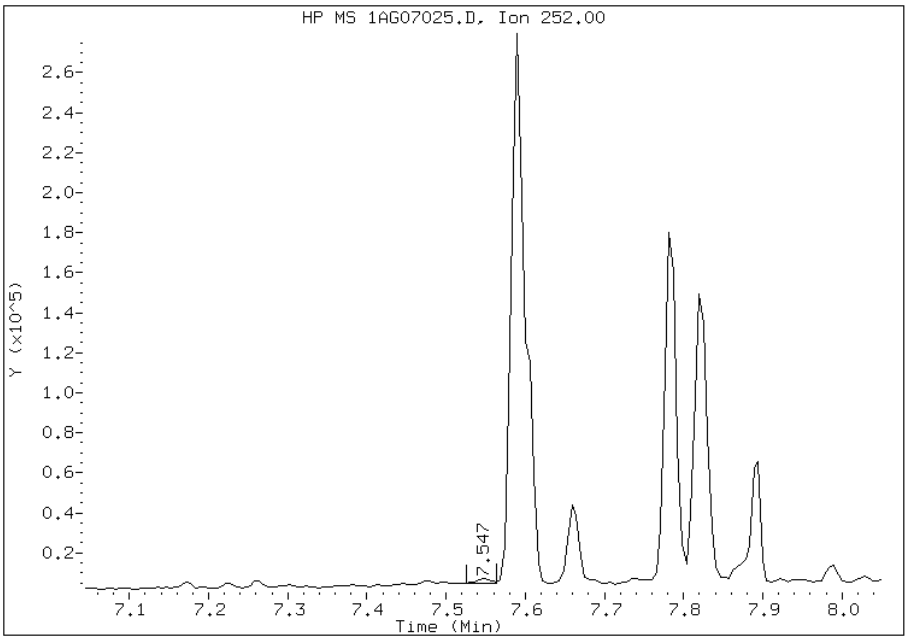
Processing Integration Results

RT: 7.55

Response: 2823

Amount: 0

Conc: 2



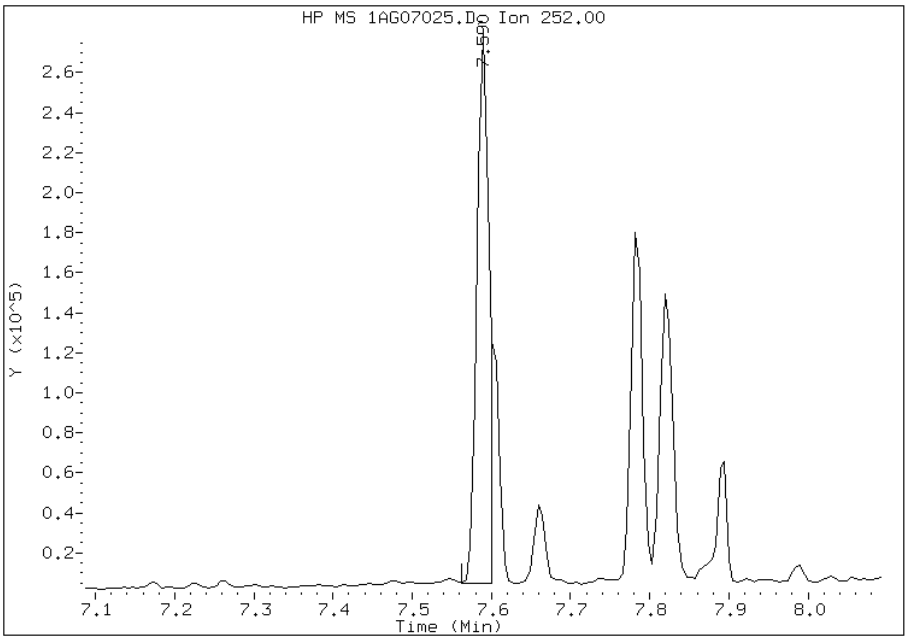
Manual Integration Results

RT: 7.59

Response: 291005

Amount: 3

Conc: 196



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:10
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07025.D
Inj. Date and Time: 07-JUL-2013 19:39
Instrument ID: BSMA5973.i
Client ID: CV1363S-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

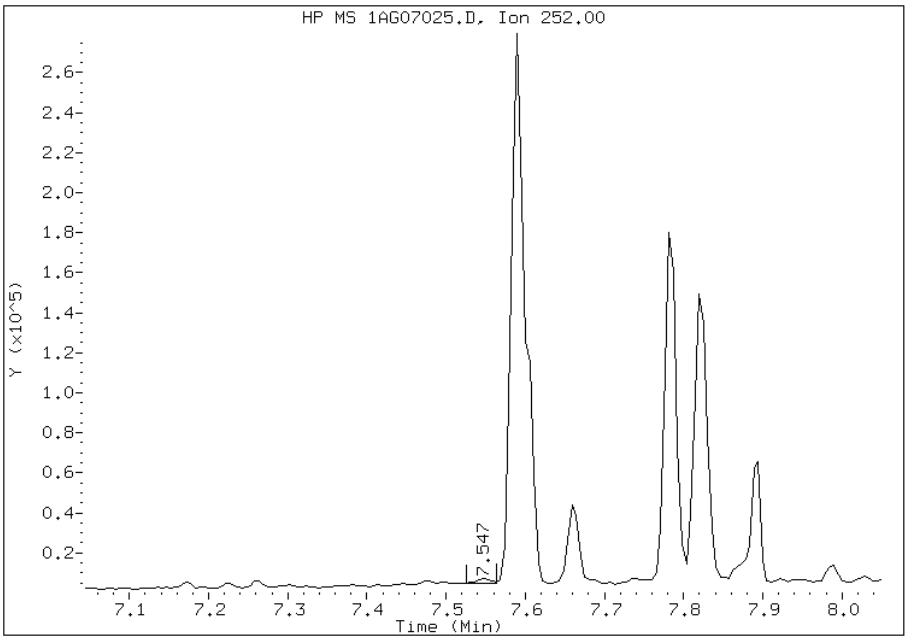
Processing Integration Results

RT: 7.55

Response: 2823

Amount: 0

Conc: 2



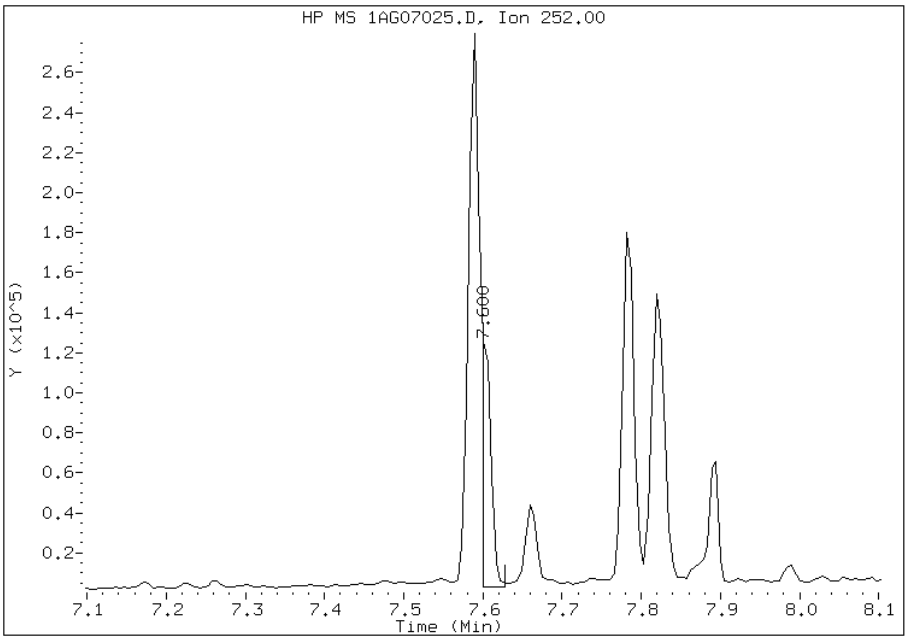
Manual Integration Results

RT: 7.60

Response: 98882

Amount: 1

Conc: 65



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07025.D
Inj. Date and Time: 07-JUL-2013 19:39
Instrument ID: BSMA5973.i
Client ID: CV1363S-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

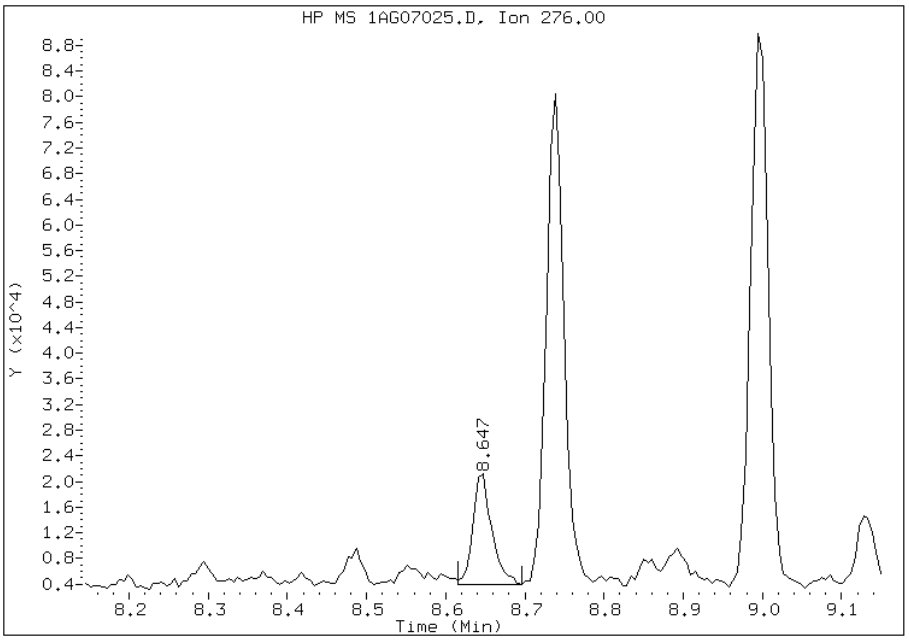
Processing Integration Results

RT: 8.65

Response: 28133

Amount: 0

Conc: 24



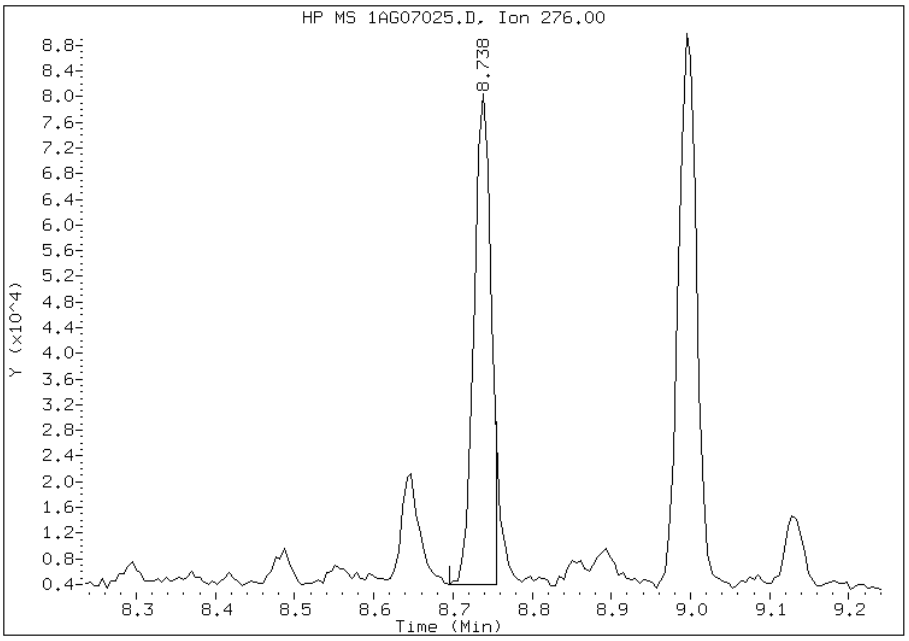
Manual Integration Results

RT: 8.74

Response: 113559

Amount: 1

Conc: 95



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363T-CS | Lab Sample ID: 680-91719-27

Matrix: Solid | Lab File ID: 1AG07026.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 11:11

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 14.97(g) | Date Analyzed: 07/07/2013 19:54

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

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

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

Analysis Batch No.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	77		45	5.7
120-12-7	Anthracene	77		9.5	4.8
56-55-3	Benzo[a]anthracene	170		9.1	4.4
50-32-8	Benzo[a]pyrene	190		12	5.9
205-99-2	Benzo[b]fluoranthene	290		14	6.9
191-24-2	Benzo[g,h,i]perylene	170		23	5.0
207-08-9	Benzo[k]fluoranthene	110		9.1	4.1
218-01-9	Chrysene	270		10	5.1
53-70-3	Dibenz(a,h)anthracene	53		23	4.7
206-44-0	Fluoranthene	340		23	4.5
86-73-7	Fluorene	11	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	150		23	8.1
90-12-0	1-Methylnaphthalene	60		45	5.0
91-57-6	2-Methylnaphthalene	64		45	8.1
91-20-3	Naphthalene	46		45	5.0
85-01-8	Phenanthrene	190		9.1	4.4
129-00-0	Pyrene	210		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	56		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07026.D
Lab Smp Id: 680-91719-A-27-A Client Smp ID: CV1363T-CS
Inj Date : 07-JUL-2013 19:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-27-a
Misc Info : 680-91719-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.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	14.970	Weight Extracted
M	11.770	% 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	2.687	2.683	(1.000)	2582151	40.0000	
* 7 Acenaphthene-d10	164	3.724	3.714	(1.000)	1545376	40.0000	
* 11 Phenanthrene-d10	188	4.701	4.692	(1.000)	2202740	40.0000	
$ 15 o-Terphenyl	230	4.990	4.986	(1.061)	187622	5.60531	424.3847
* 19 Chrysene-d12	240	6.769	6.748	(1.000)	2882397	40.0000	
* 24 Perylene-d12	264	7.885	7.849	(1.000)	3907770	40.0000	
2 Naphthalene	128	2.698	2.694	(1.004)	35787	0.61342	46.4424
3 2-Methylnaphthalene	141	3.104	3.100	(1.155)	28163	0.84612	64.0607
4 1-Methylnaphthalene	142	3.158	3.153	(1.175)	30795	0.79234	59.9887
6 Acenaphthylene	152	3.633	3.629	(0.976)	70191	1.01820	77.0891
10 Fluorene	166	4.060	4.056	(1.090)	7131	0.14753	11.1700
12 Phenanthrene	178	4.717	4.708	(1.003)	139636	2.49077	188.5788
13 Anthracene	178	4.750	4.740	(1.010)	59610	1.01968	77.2010
16 Fluoranthene	202	5.604	5.589	(1.192)	307157	4.55320	344.7282

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.775	5.760	(0.853)	263568	2.74672	207.9574
18 Benzo(a)anthracene	228	6.758	6.732	(0.998)	213426	2.22884	168.7479
20 Chrysene	228	6.785	6.764	(1.002)	278696	3.56922	270.2299
21 Benzo(b)fluoranthene	252	7.592	7.566	(0.963)	432341	3.88653	294.2542(M)
22 Benzo(k)fluoranthene	252	7.602	7.587	(0.964)	173722	1.51248	114.5119(QM)
23 Benzo(a)pyrene	252	7.827	7.795	(0.993)	260051	2.52786	191.3872
25 Indeno(1,2,3-cd)pyrene	276	8.740	8.693	(1.108)	177839	1.98259	150.1042(M)
26 Dibenzo(a,h)anthracene	278	8.761	8.720	(1.111)	59875	0.70598	53.4505
27 Benzo(g,h,i)perylene	276	8.997	8.944	(1.141)	186064	2.18781	165.6416

QC Flag Legend

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

Data File: 1AG07026.D

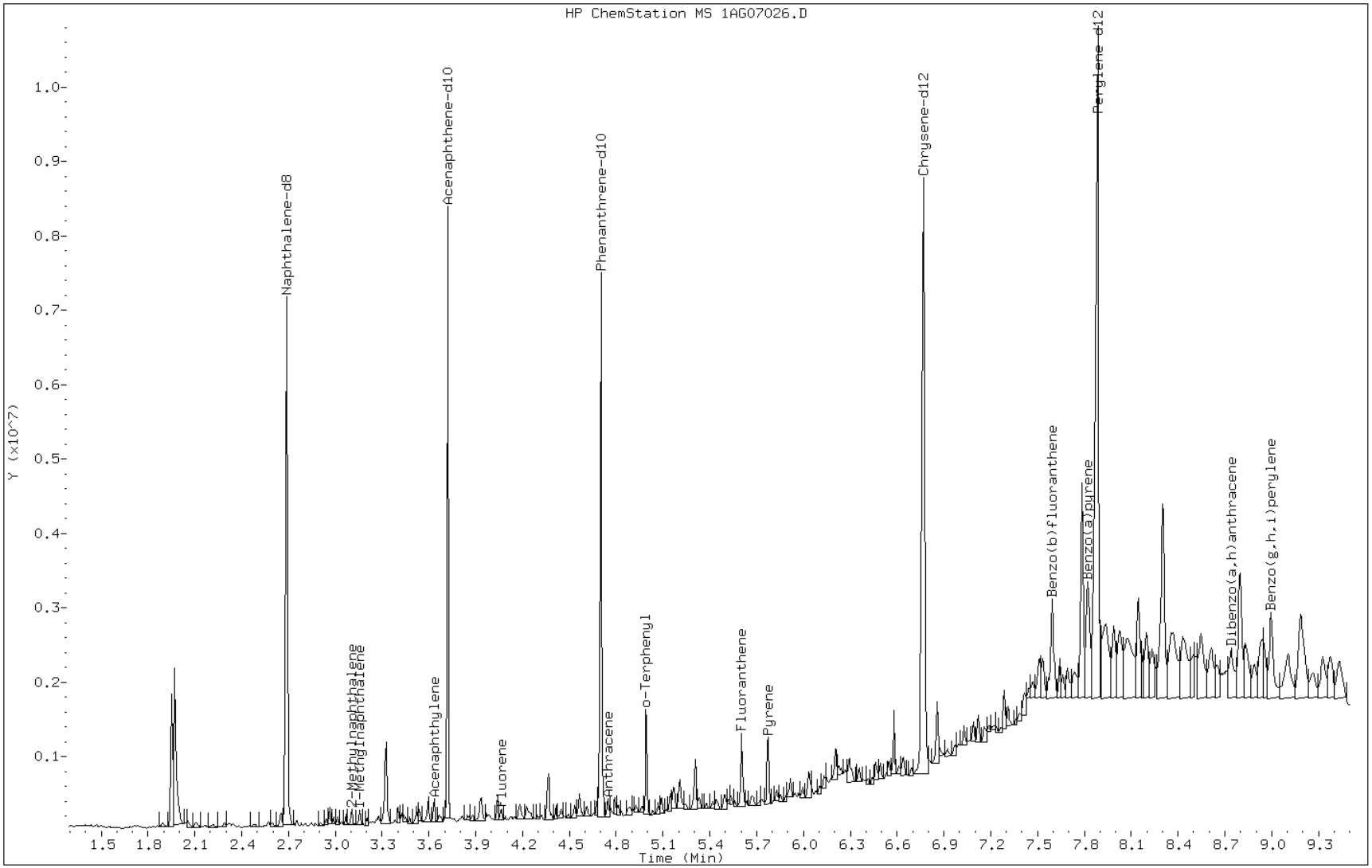
Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a

Operator: SCC



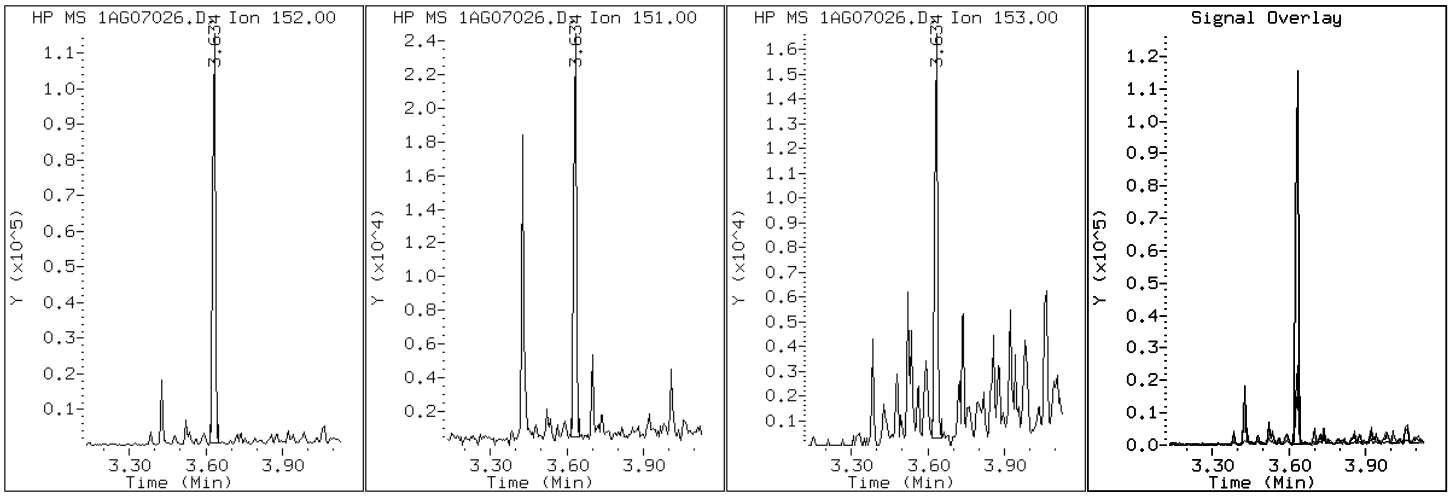
Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a Operator: SCC

6 Acenaphthylene



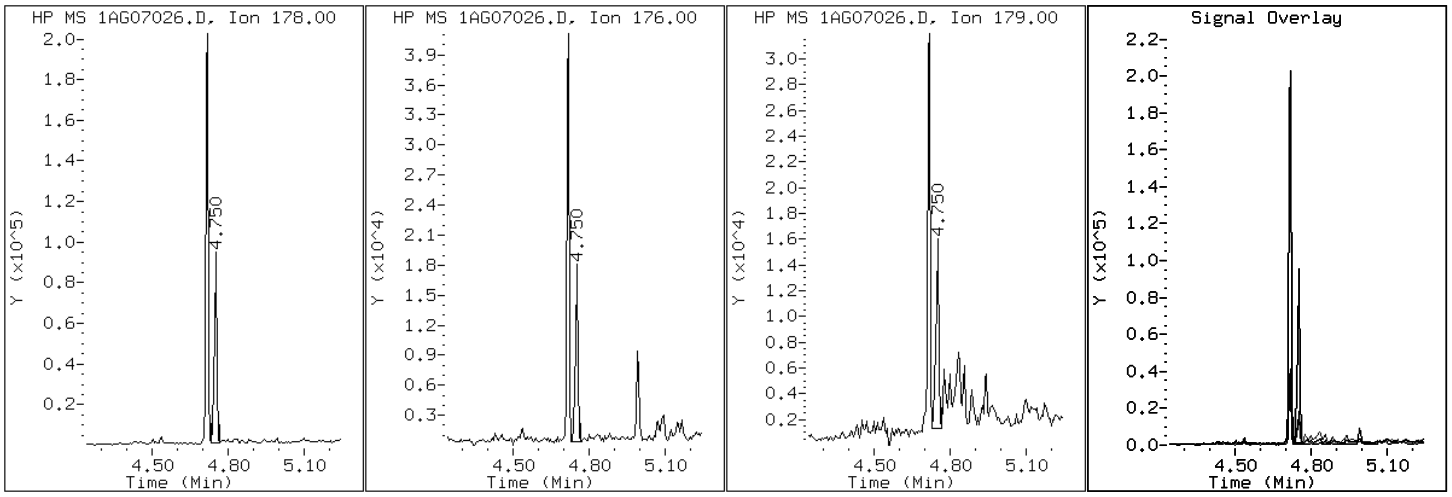
Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a Operator: SCC

13 Anthracene



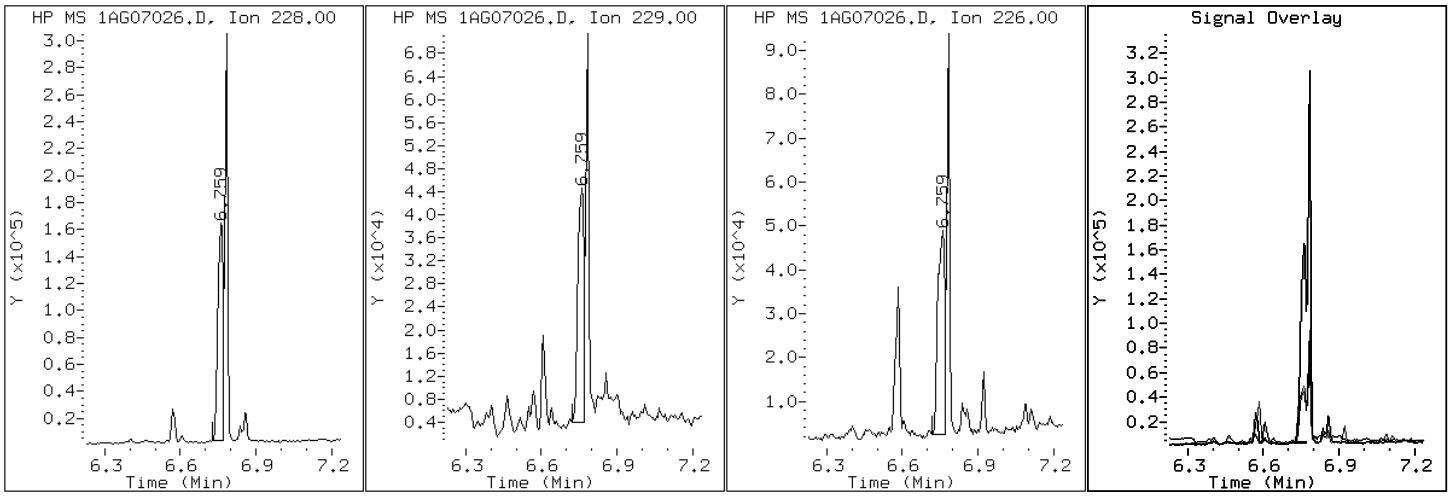
Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a Operator: SCC

18 Benzo(a)anthracene



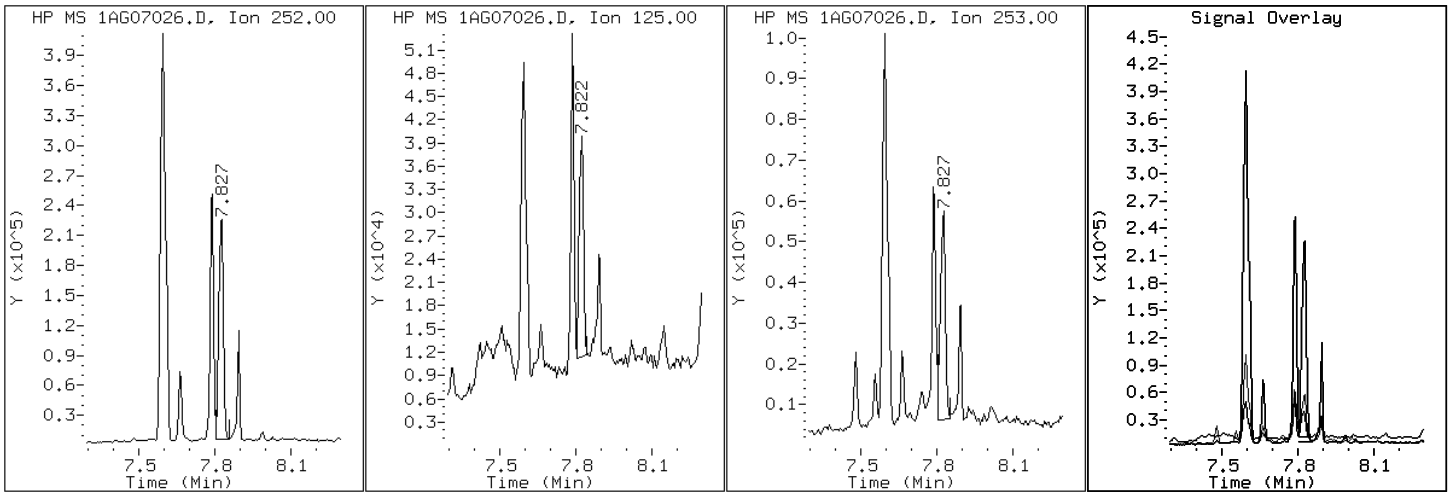
Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a Operator: SCC

23 Benzo(a)pyrene



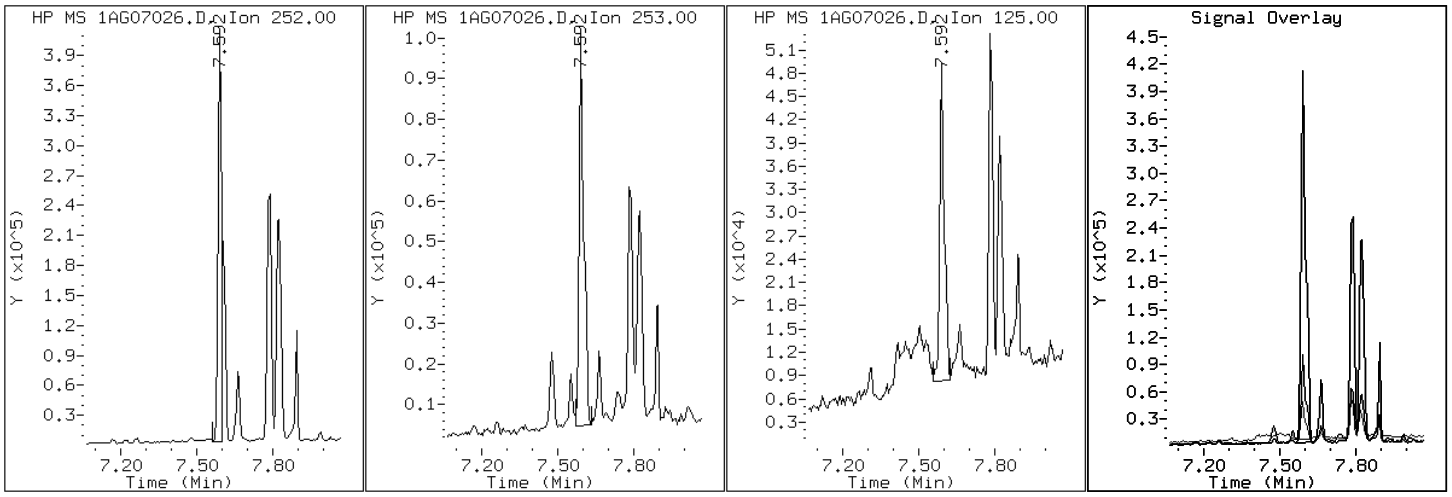
Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

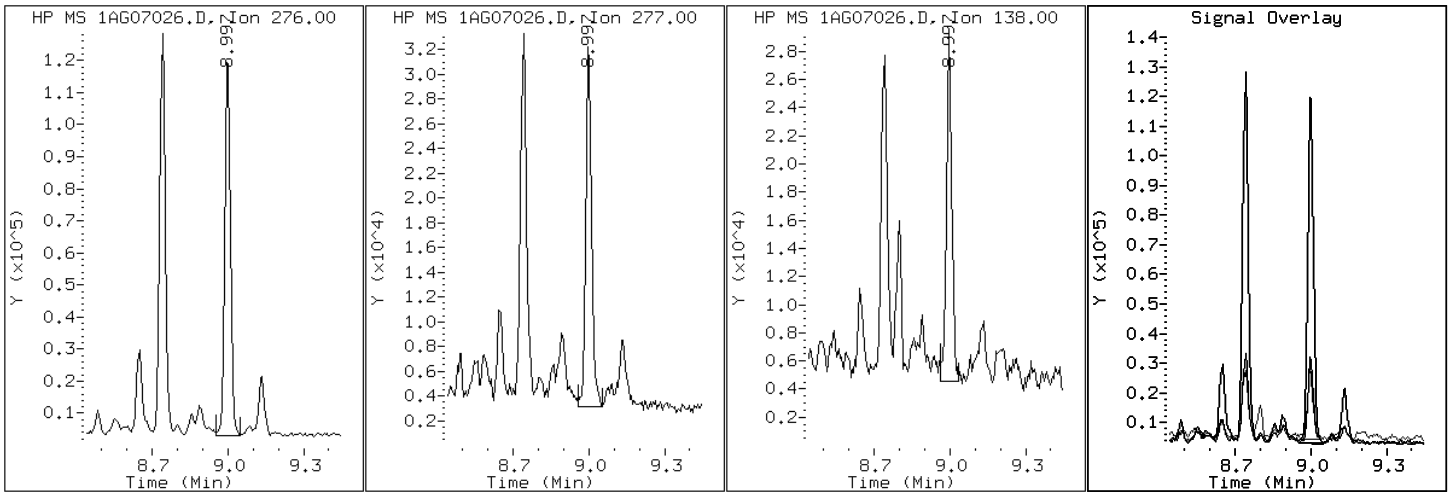
Client ID: CV1363T-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a

Operator: SCC

27 Benzo(g,h,i)perylene



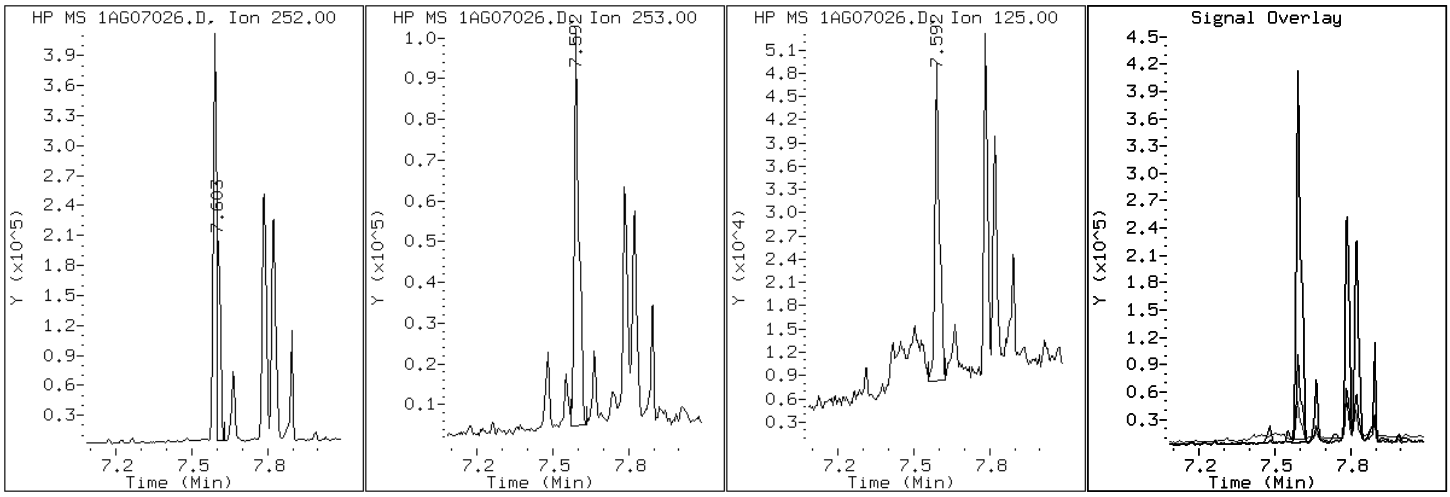
Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a Operator: SCC

22 Benzo(k)fluoranthene



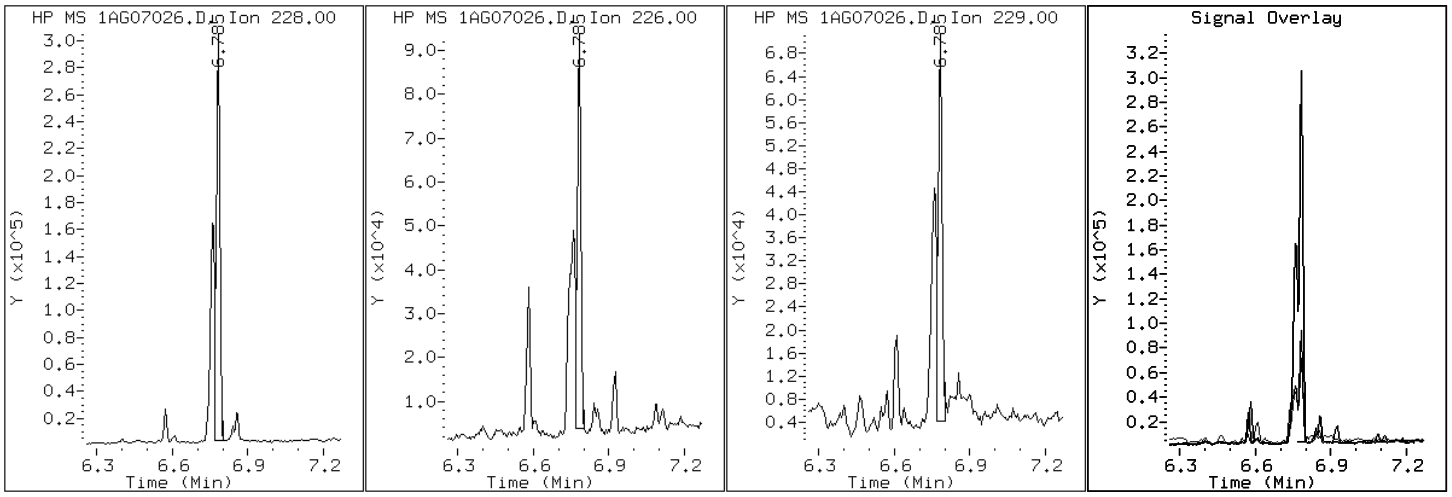
Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a Operator: SCC

20 Chrysene



Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

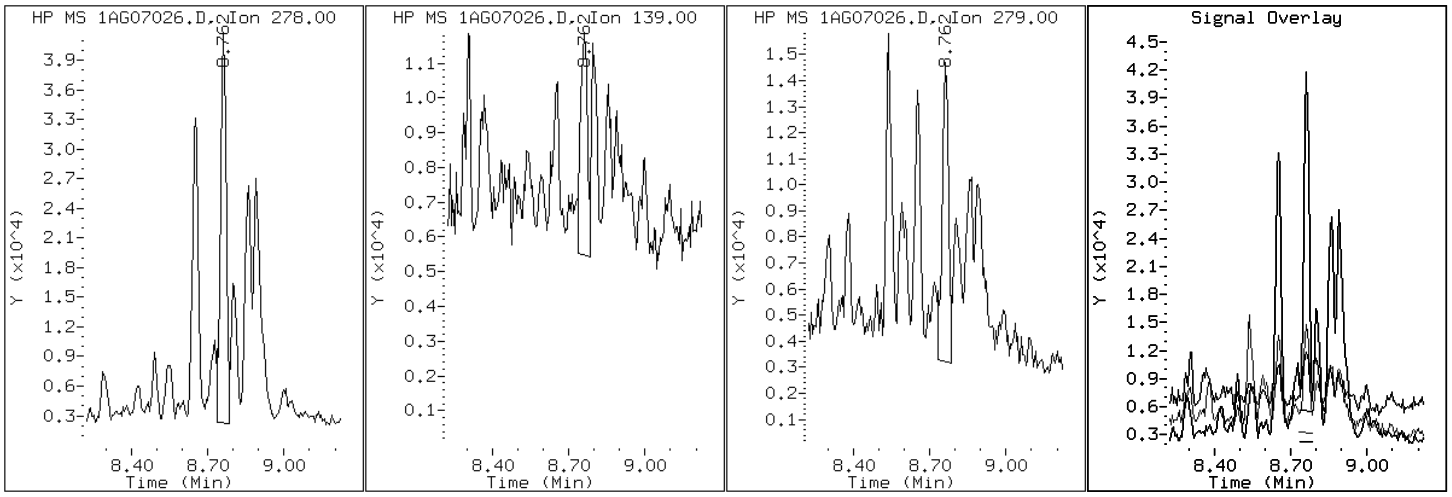
Client ID: CV1363T-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

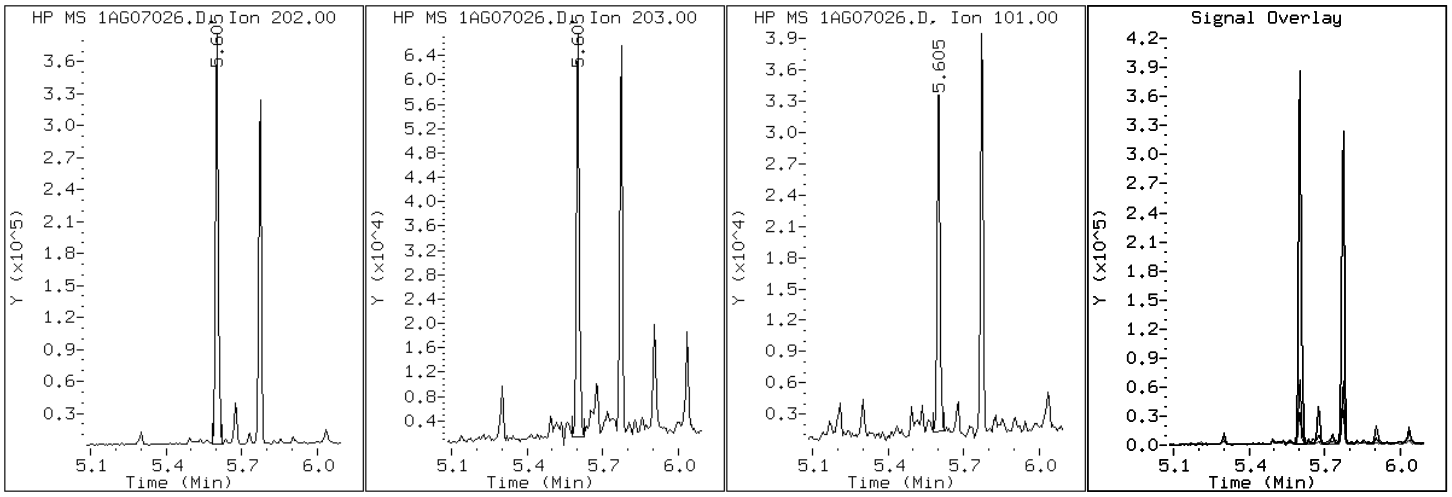
Client ID: CV1363T-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a

Operator: SCC

16 Fluoranthene



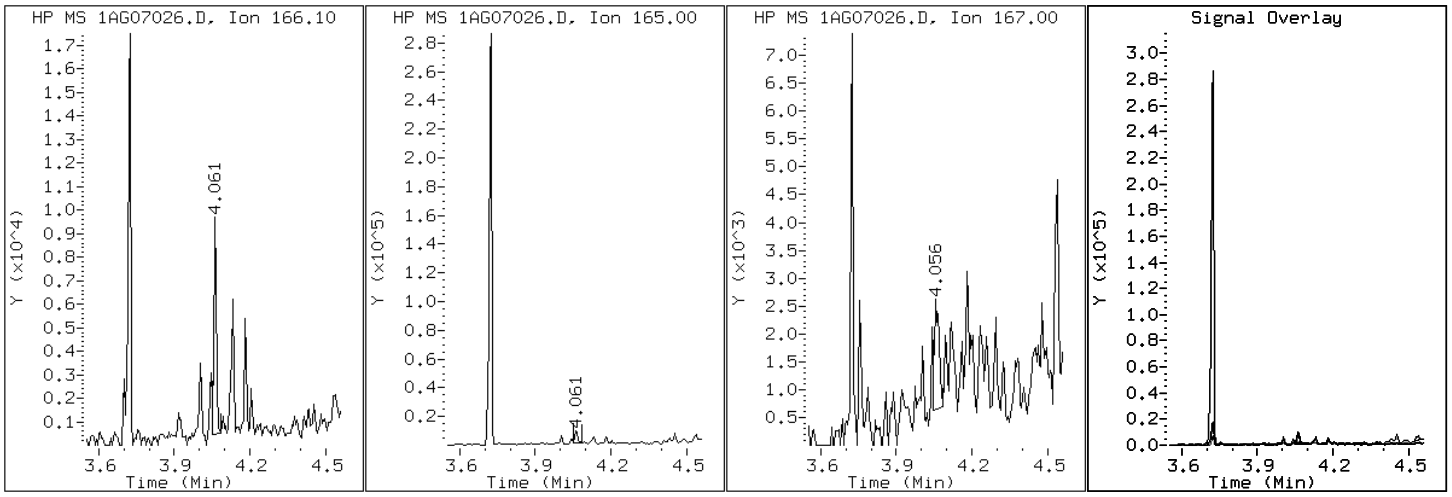
Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a Operator: SCC

10 Fluorene



Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

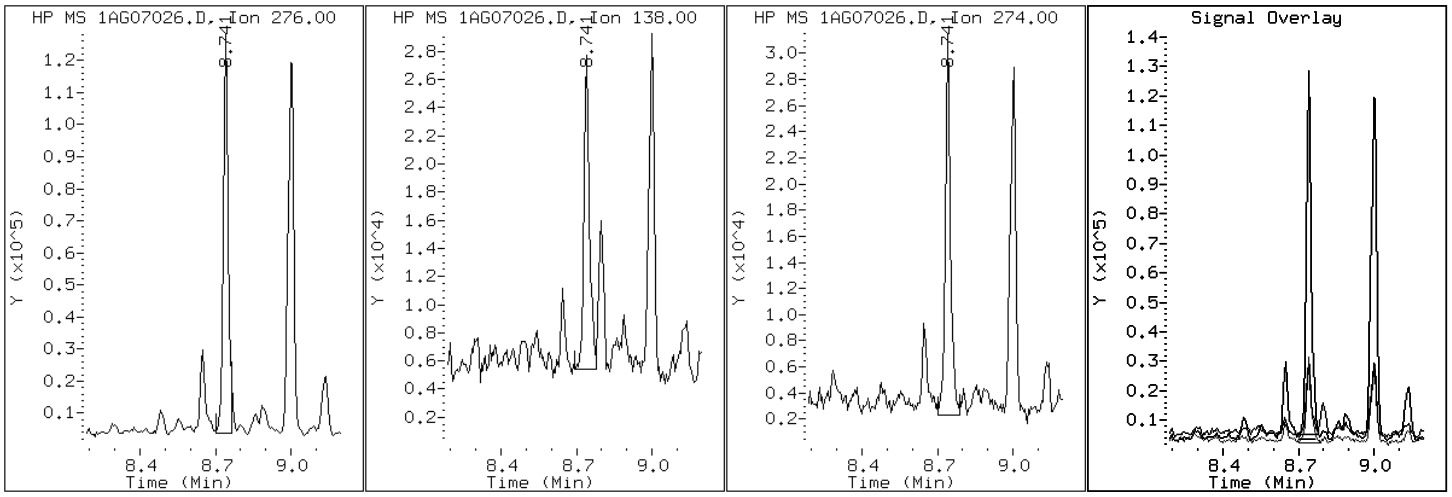
Client ID: CV1363T-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a

Operator: SCC

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



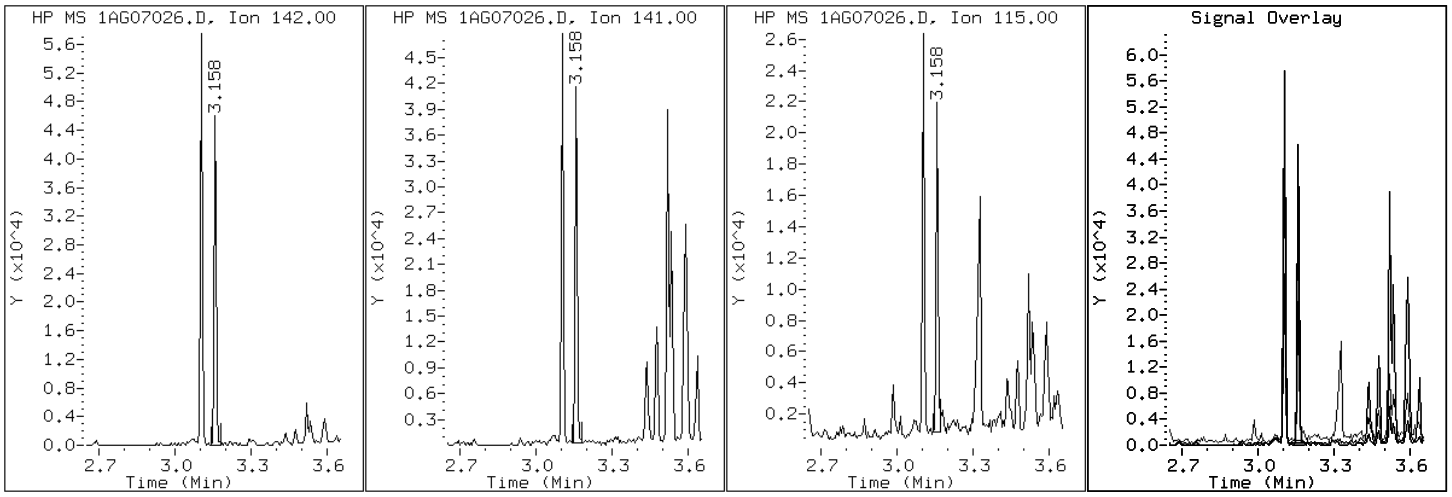
Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a Operator: SCC

4 1-Methylnaphthalene



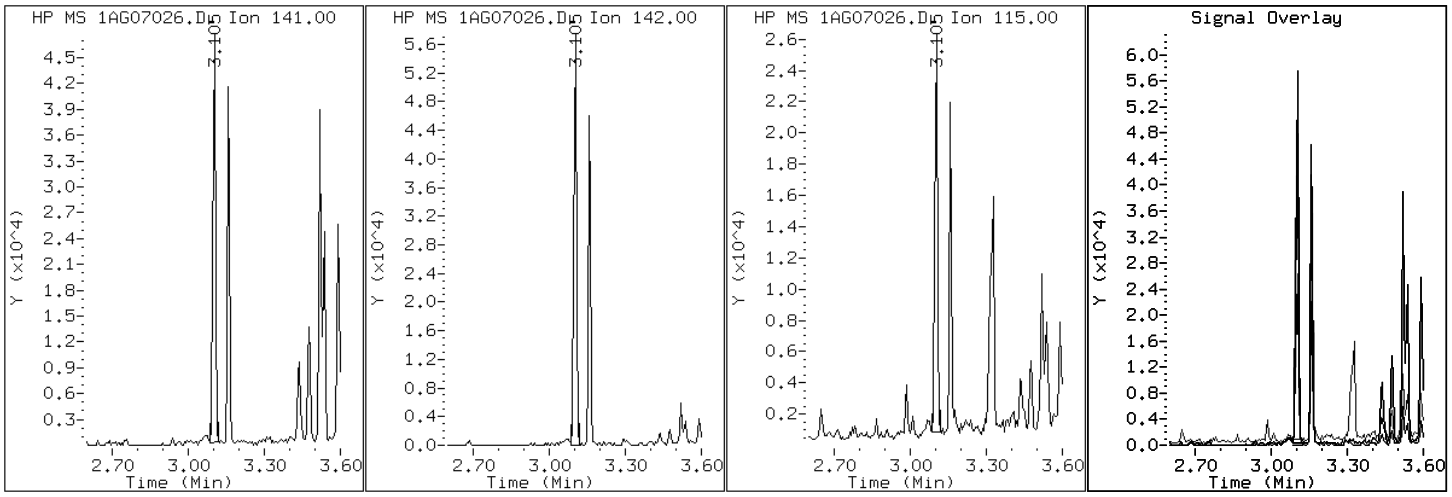
Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

Client ID: CV1363T-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

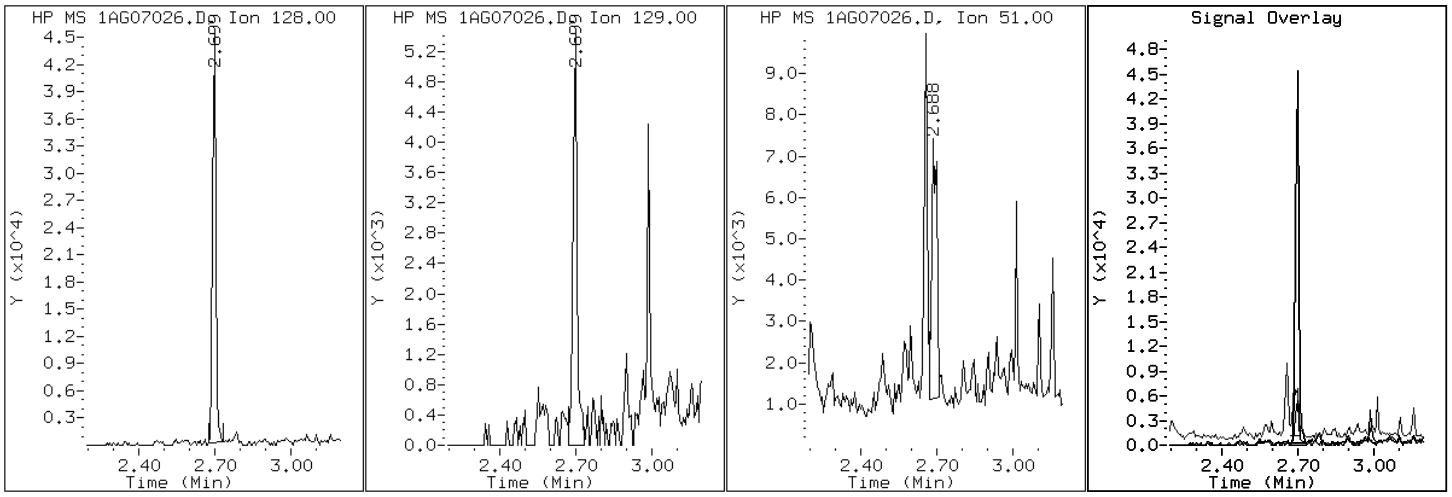
Client ID: CV1363T-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a

Operator: SCC

2 Naphthalene



Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

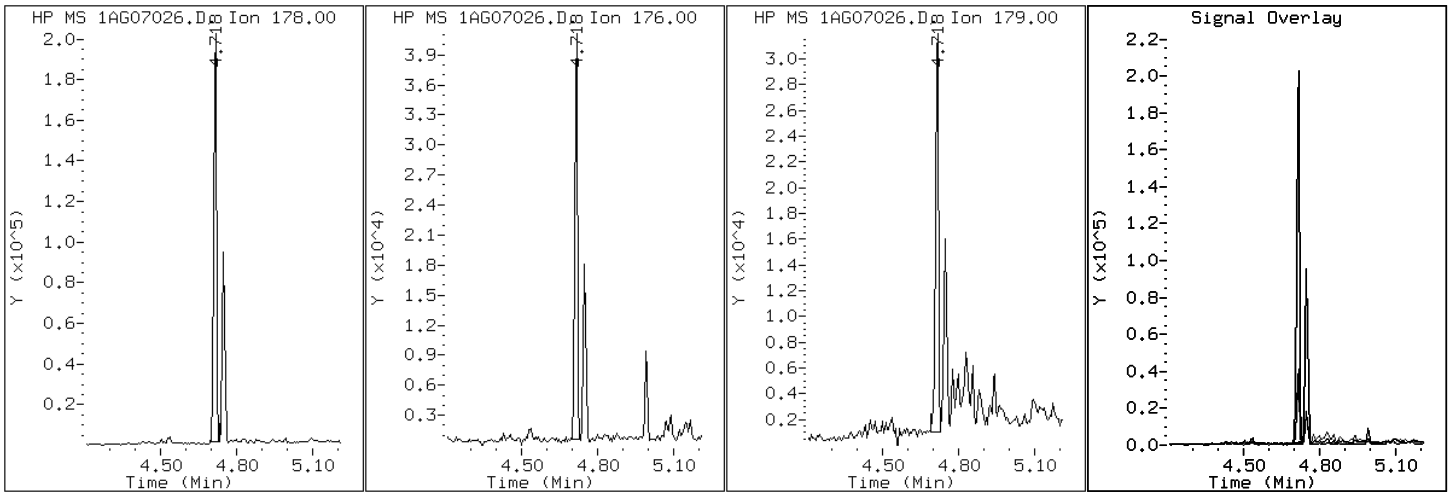
Client ID: CV1363T-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a

Operator: SCC

12 Phenanthrene



Data File: 1AG07026.D

Date: 07-JUL-2013 19:54

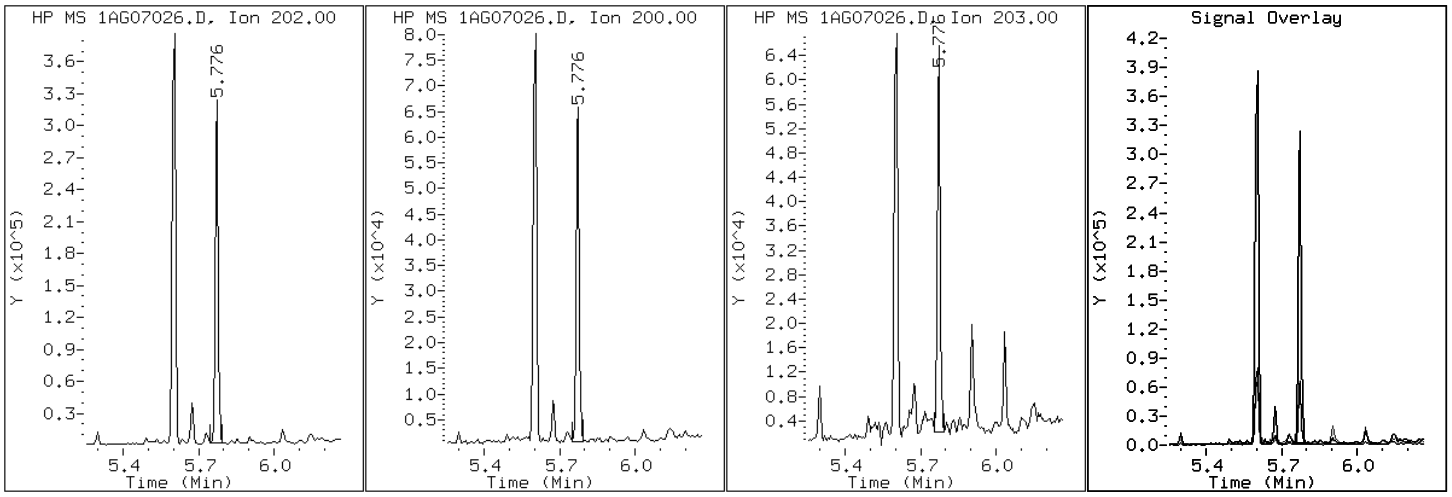
Client ID: CV1363T-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-27-a

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07026.D
Inj. Date and Time: 07-JUL-2013 19:54
Instrument ID: BSMA5973.i
Client ID: CV1363T-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

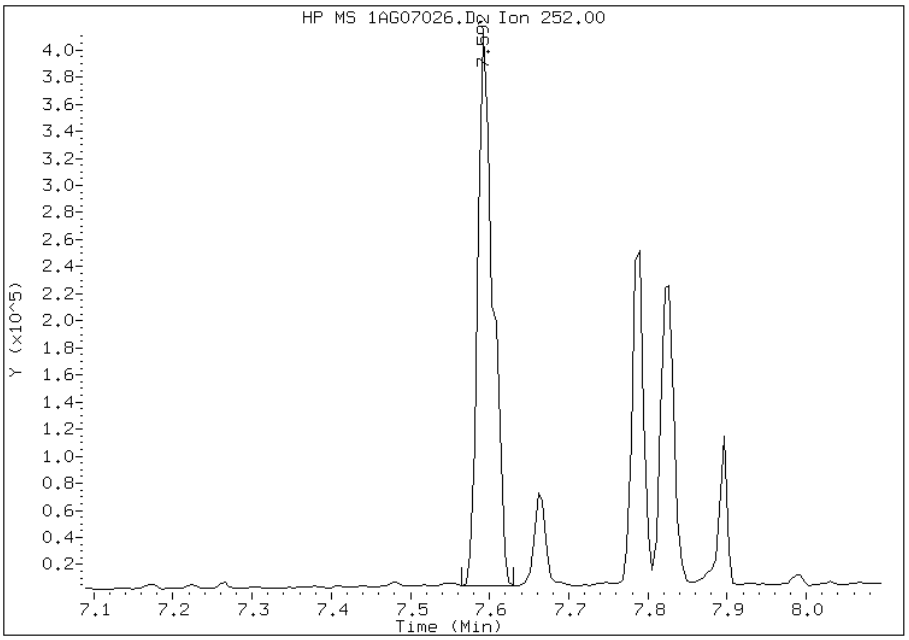
Processing Integration Results

RT: 7.59

Response: 541631

Amount: 5

Conc: 369



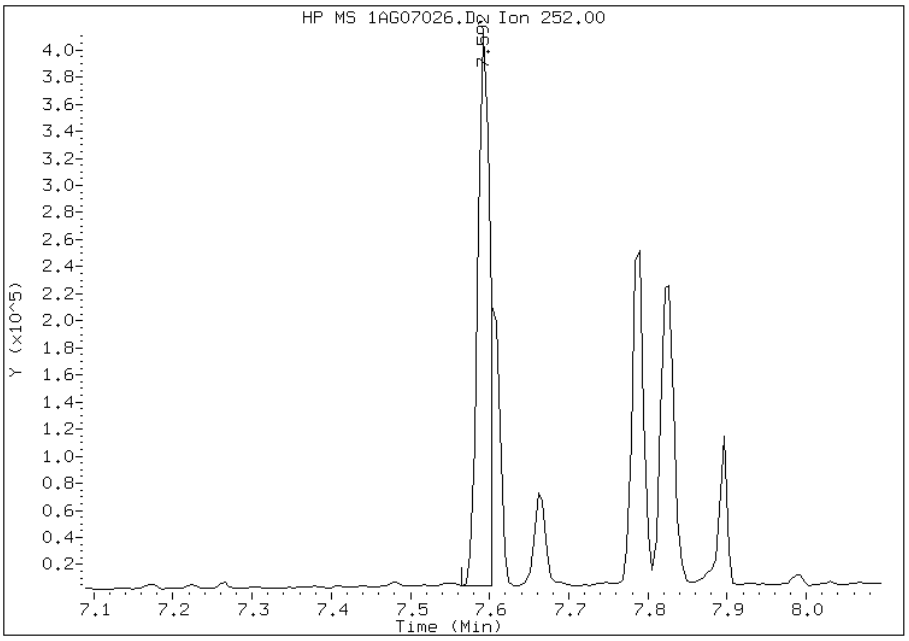
Manual Integration Results

RT: 7.59

Response: 432341

Amount: 4

Conc: 294



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:11
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07026.D
Inj. Date and Time: 07-JUL-2013 19:54
Instrument ID: BSMA5973.i
Client ID: CV1363T-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

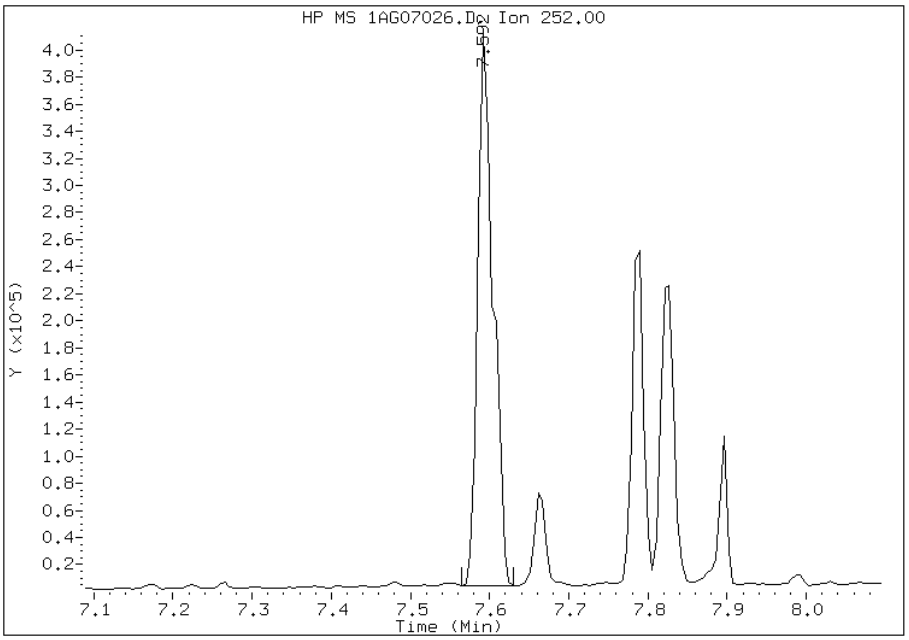
Processing Integration Results

RT: 7.59

Response: 541724

Amount: 5

Conc: 357



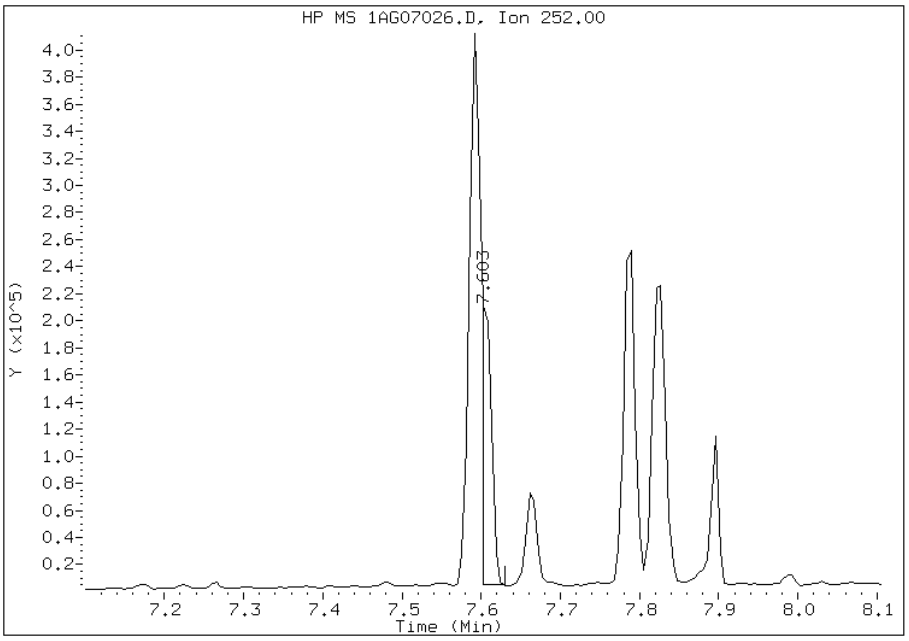
Manual Integration Results

RT: 7.60

Response: 173722

Amount: 2

Conc: 115



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07026.D
Inj. Date and Time: 07-JUL-2013 19:54
Instrument ID: BSMA5973.i
Client ID: CV1363T-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

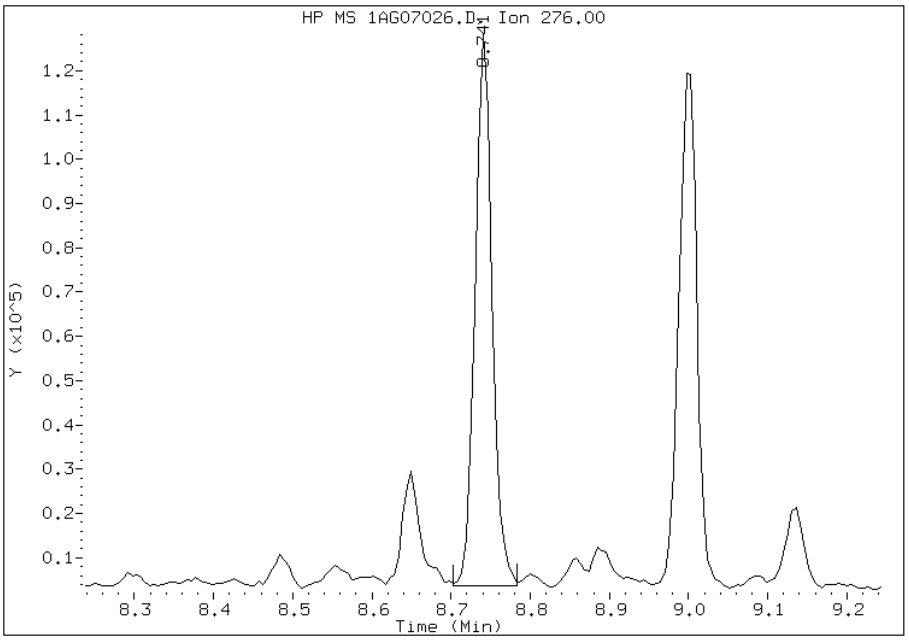
Processing Integration Results

RT: 8.74

Response: 183005

Amount: 2

Conc: 154



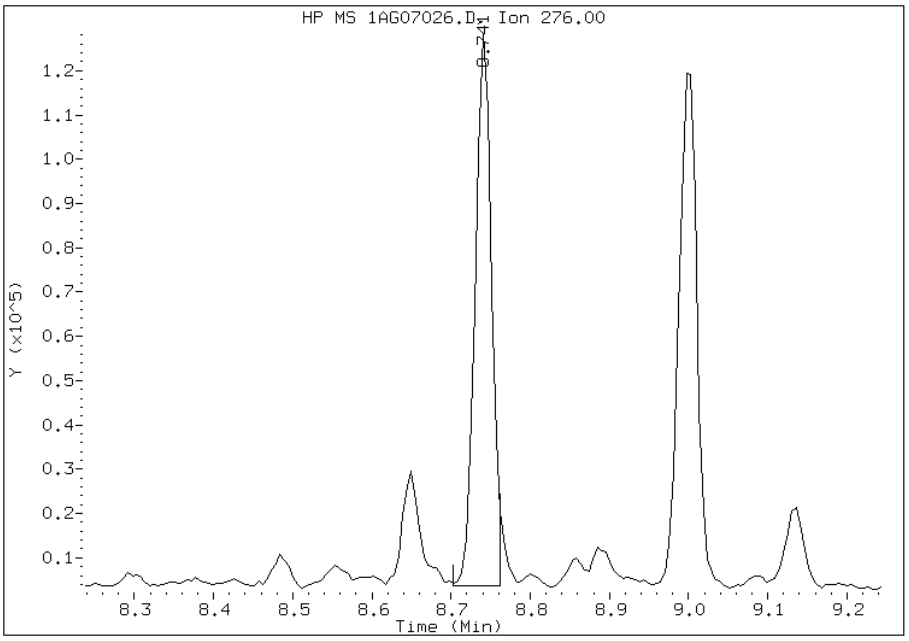
Manual Integration Results

RT: 8.74

Response: 177839

Amount: 2

Conc: 150



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363U-CS | Lab Sample ID: 680-91719-28

Matrix: Solid | Lab File ID: 1AG07027.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 11:25

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 15.24(g) | Date Analyzed: 07/07/2013 20:09

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.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	23	J	45	5.7
120-12-7	Anthracene	36		9.5	4.8
56-55-3	Benzo[a]anthracene	79		9.1	4.4
50-32-8	Benzo[a]pyrene	82		12	5.9
205-99-2	Benzo[b]fluoranthene	120		14	6.9
191-24-2	Benzo[g,h,i]perylene	77		23	5.0
207-08-9	Benzo[k]fluoranthene	55		9.1	4.1
218-01-9	Chrysene	130		10	5.1
53-70-3	Dibenz(a,h)anthracene	24		23	4.6
206-44-0	Fluoranthene	160		23	4.5
86-73-7	Fluorene	6.4	J	23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	64		23	8.0
90-12-0	1-Methylnaphthalene	48		45	5.0
91-57-6	2-Methylnaphthalene	53		45	8.0
91-20-3	Naphthalene	40	J	45	5.0
85-01-8	Phenanthrene	110		9.1	4.4
129-00-0	Pyrene	98		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07027.D
Lab Smp Id: 680-91719-A-28-A Client Smp ID: CV1363U-CS
Inj Date : 07-JUL-2013 20:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-28-a
Misc Info : 680-91719-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.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	15.240	Weight Extracted
M	13.062	% 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	2.688	2.683	(1.000)	2699285	40.0000	
* 7 Acenaphthene-d10	164	3.724	3.714	(1.000)	1650015	40.0000	
* 11 Phenanthrene-d10	188	4.702	4.692	(1.000)	2352465	40.0000	
$ 15 o-Terphenyl	230	4.990	4.986	(1.061)	204093	5.70931	430.9122
* 19 Chrysene-d12	240	6.769	6.748	(1.000)	3068992	40.0000	
* 24 Perylene-d12	264	7.880	7.849	(1.000)	4073015	40.0000	
2 Naphthalene	128	2.699	2.694	(1.004)	32386	0.53103	40.0797
3 2-Methylnaphthalene	141	3.105	3.100	(1.155)	24209	0.69576	52.5130
4 1-Methylnaphthalene	142	3.158	3.153	(1.175)	25812	0.63531	47.9500
6 Acenaphthylene	152	3.634	3.629	(0.976)	22648	0.30770	23.2237
10 Fluorene	166	4.061	4.056	(1.090)	4366	0.08460	6.3852(Q)
12 Phenanthrene	178	4.718	4.708	(1.003)	89645	1.49727	113.0072
13 Anthracene	178	4.750	4.740	(1.010)	29414	0.47113	35.5584
16 Fluoranthene	202	5.599	5.589	(1.191)	150694	2.09167	157.8691

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.770	5.760	(0.852)	132695	1.29878	98.0255
18 Benzo(a)anthracene	228	6.764	6.732	(0.999)	112013	1.04604	78.9502
20 Chrysene	228	6.780	6.764	(1.002)	141938	1.70726	128.8558
21 Benzo(b)fluoranthene	252	7.587	7.566	(0.963)	188325	1.62427	122.5919(M)
22 Benzo(k)fluoranthene	252	7.597	7.587	(0.964)	87944	0.73461	55.4446(QM)
23 Benzo(a)pyrene	252	7.822	7.795	(0.993)	116191	1.08363	81.7870
25 Indeno(1,2,3-cd)pyrene	276	8.735	8.693	(1.108)	79721	0.85269	64.3571(M)
26 Dibenzo(a,h)anthracene	278	8.757	8.720	(1.111)	27630	0.31256	23.5909
27 Benzo(g,h,i)perylene	276	8.997	8.944	(1.142)	90981	1.02639	77.4668

QC Flag Legend

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

Data File: 1AG07027.D

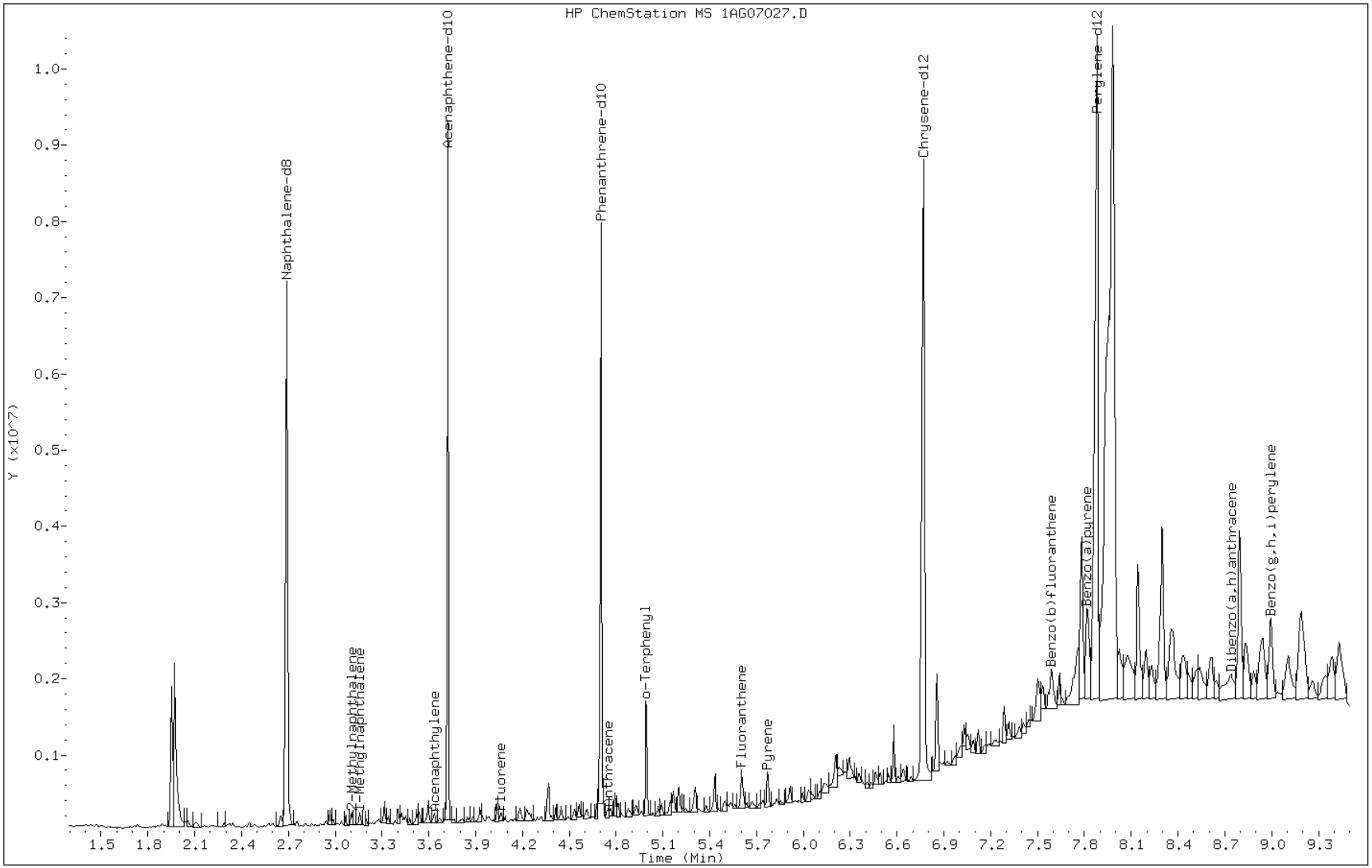
Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a

Operator: SCC



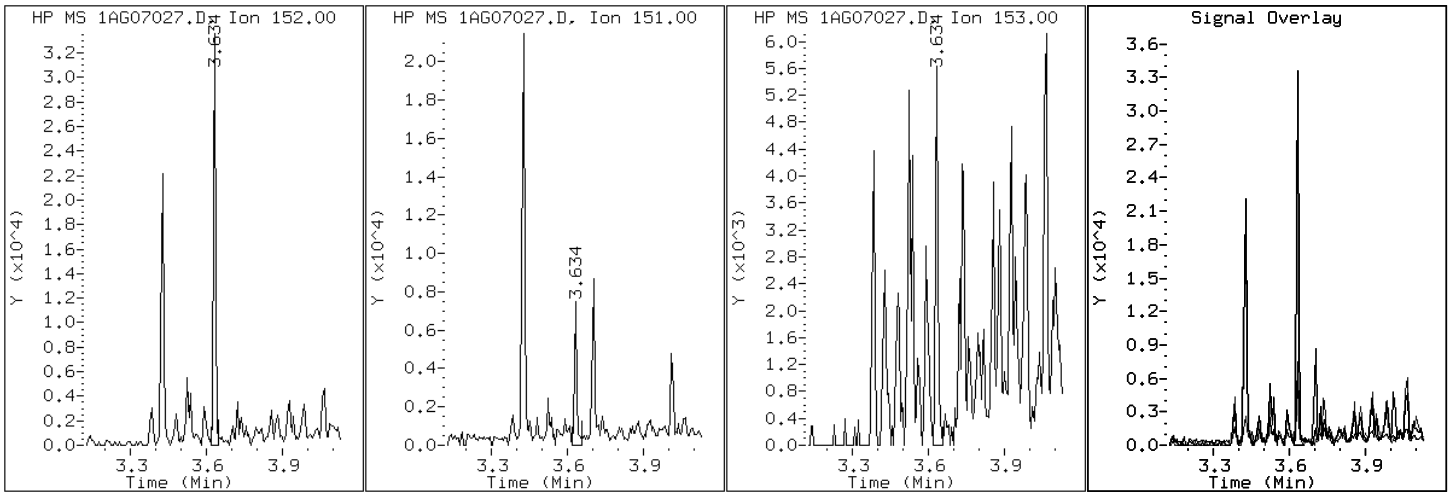
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

6 Acenaphthylene



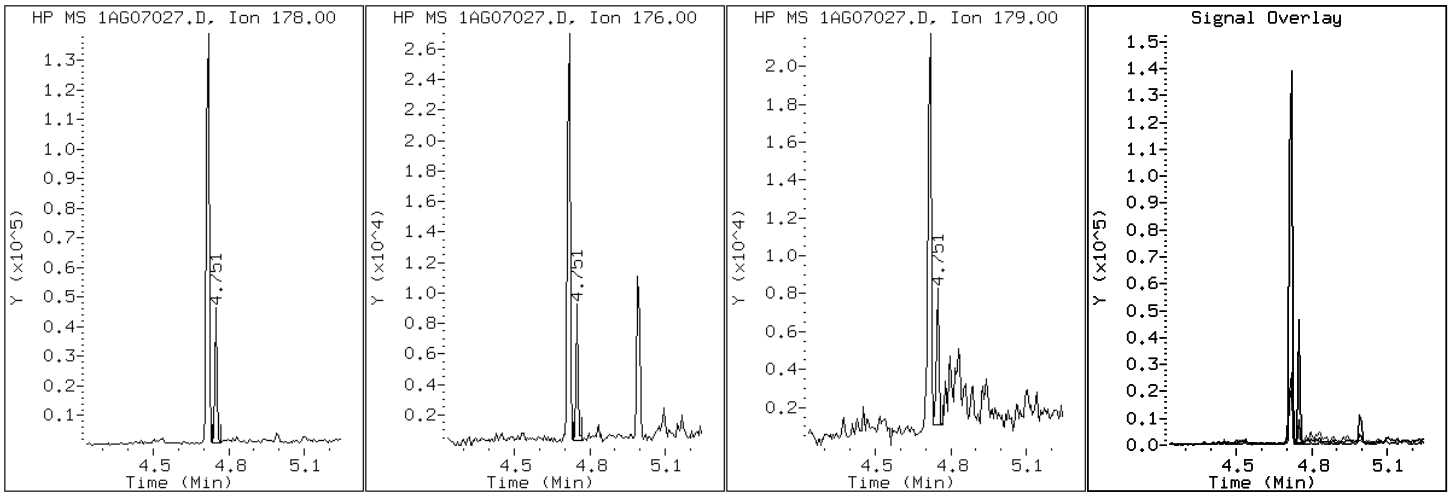
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

13 Anthracene



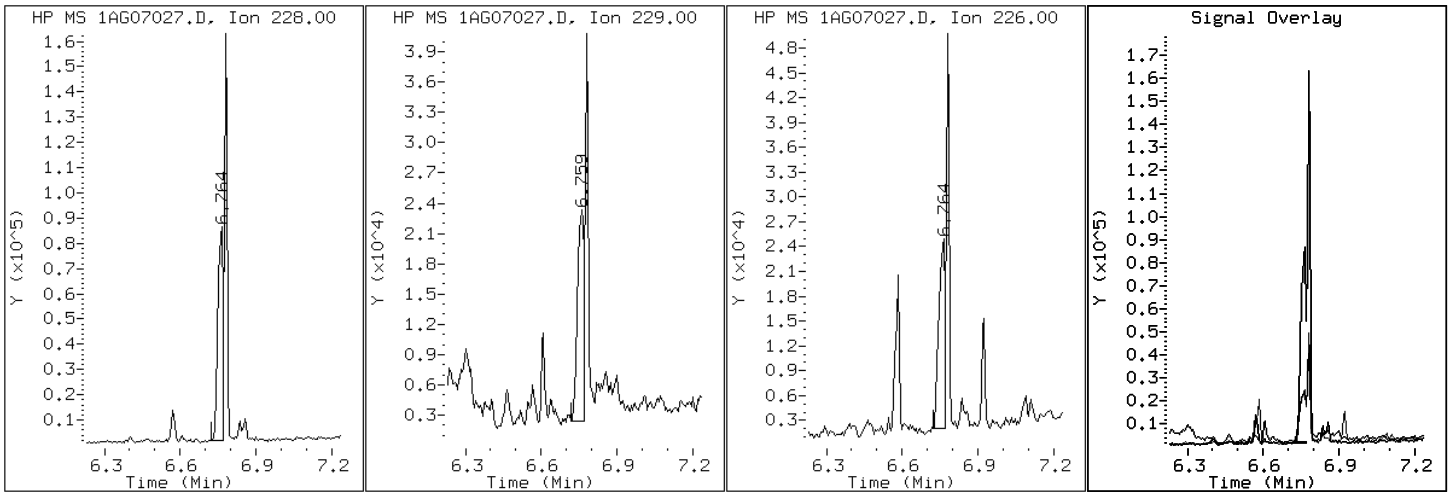
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

18 Benzo(a)anthracene



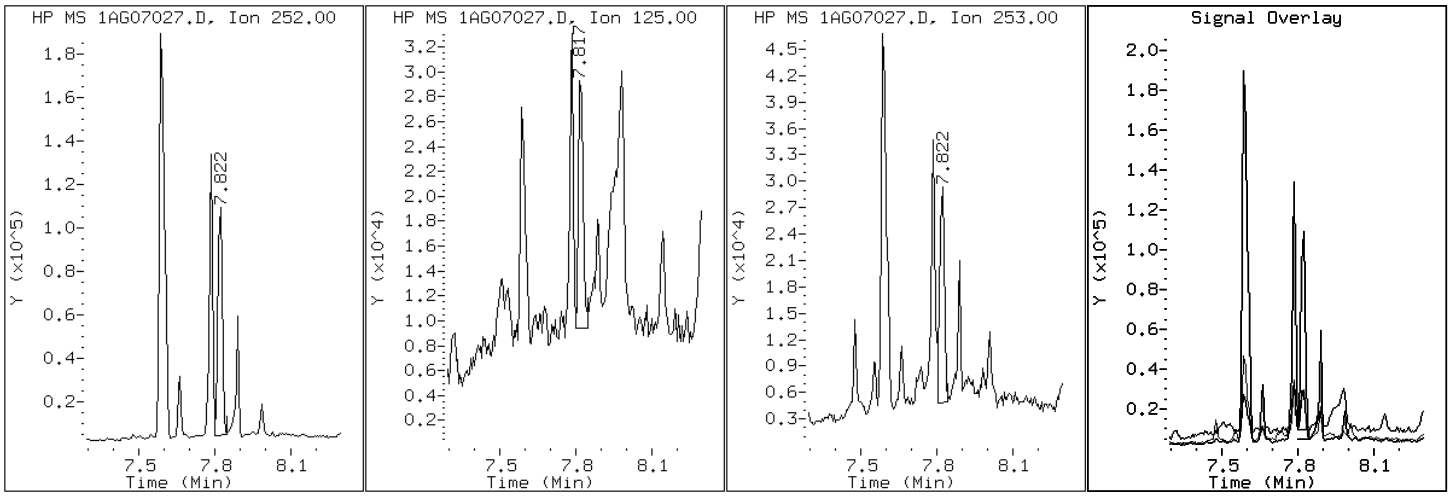
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

23 Benzo(a)pyrene



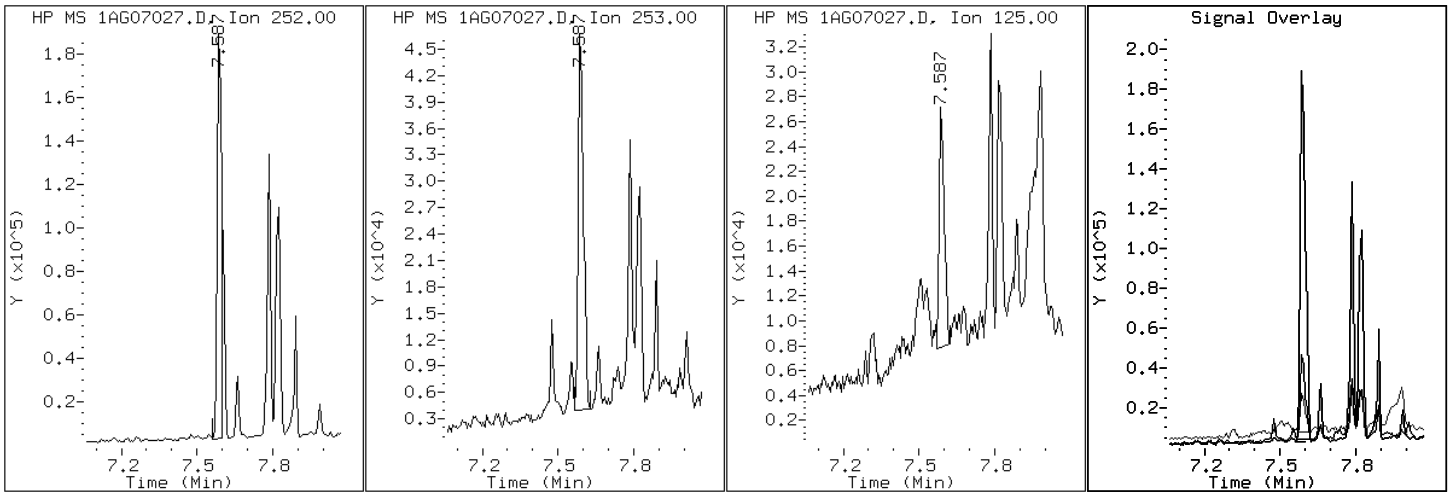
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

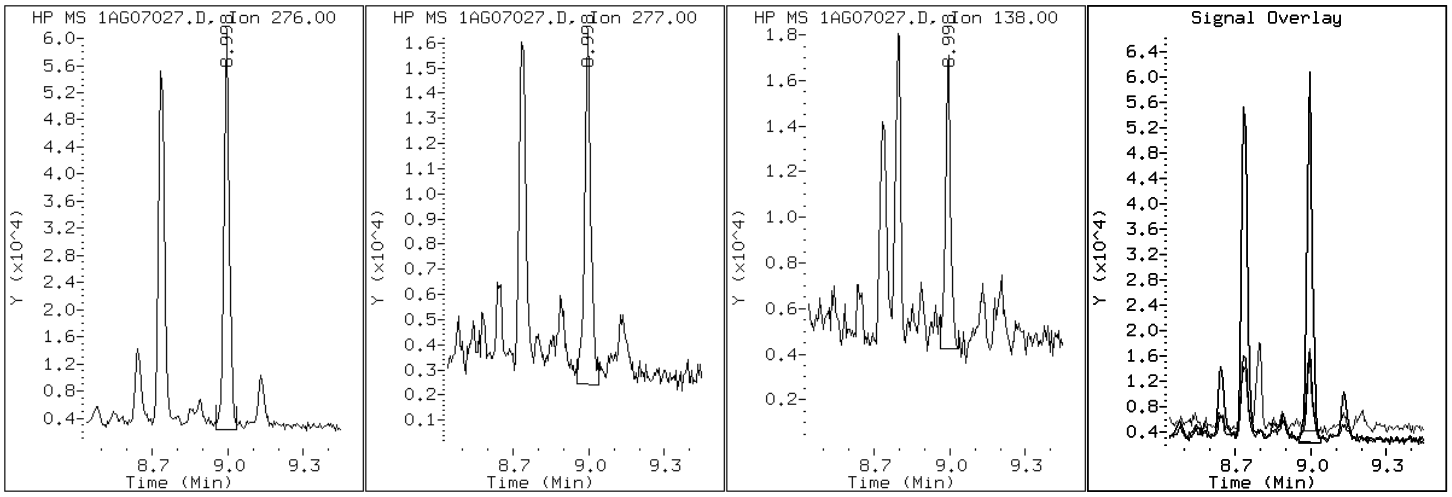
Client ID: CV1363U-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a

Operator: SCC

27 Benzo(g,h,i)perylene



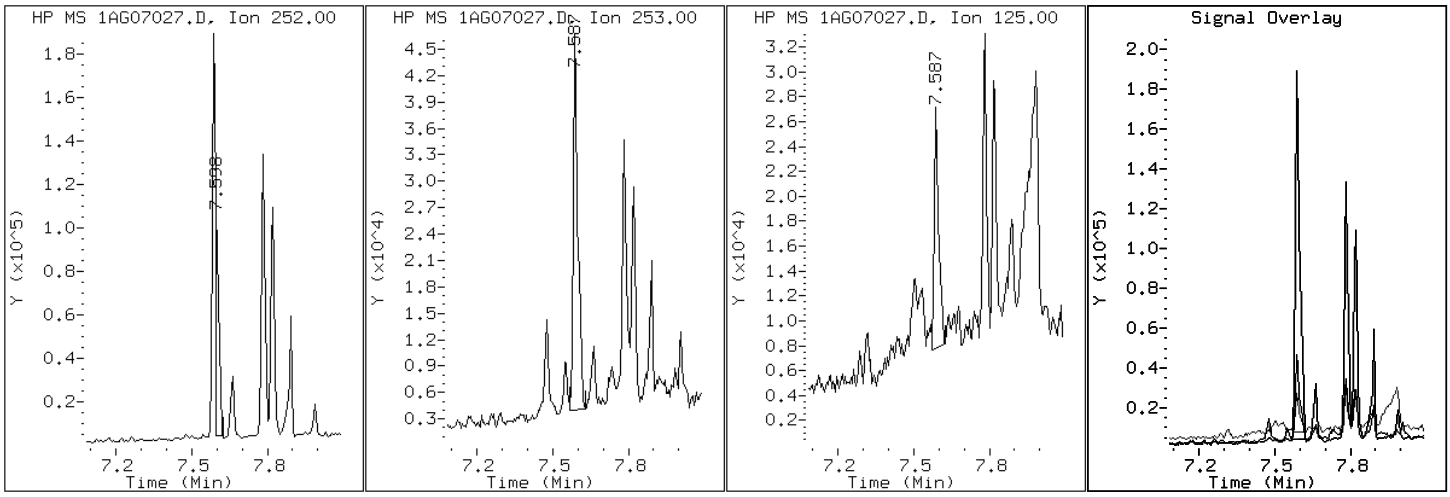
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

22 Benzo(k)fluoranthene



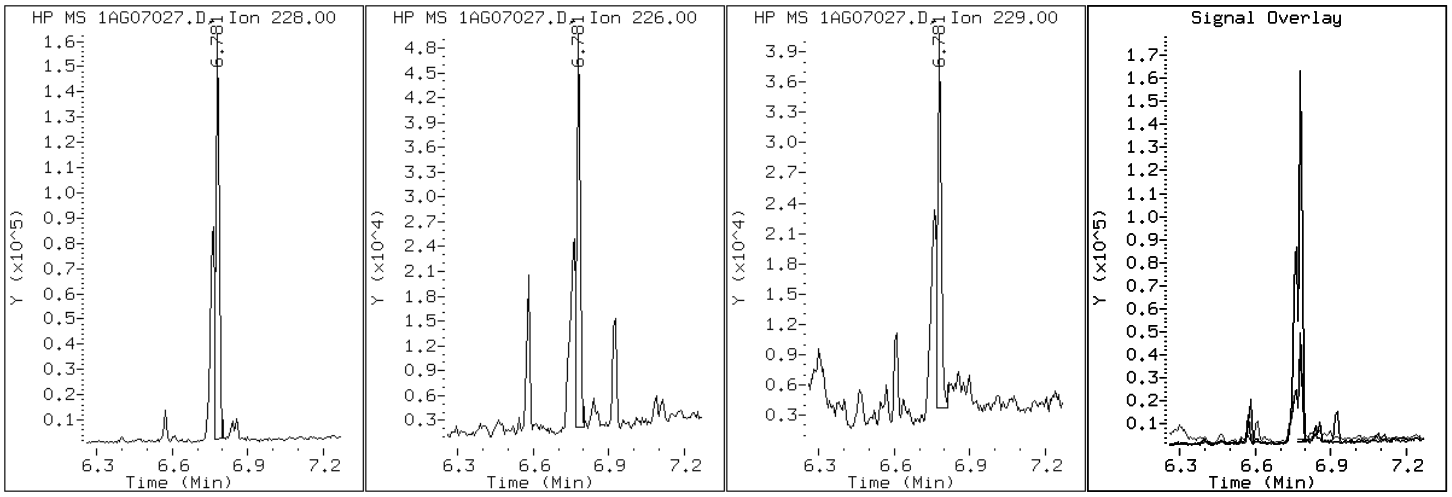
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

20 Chrysene



Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

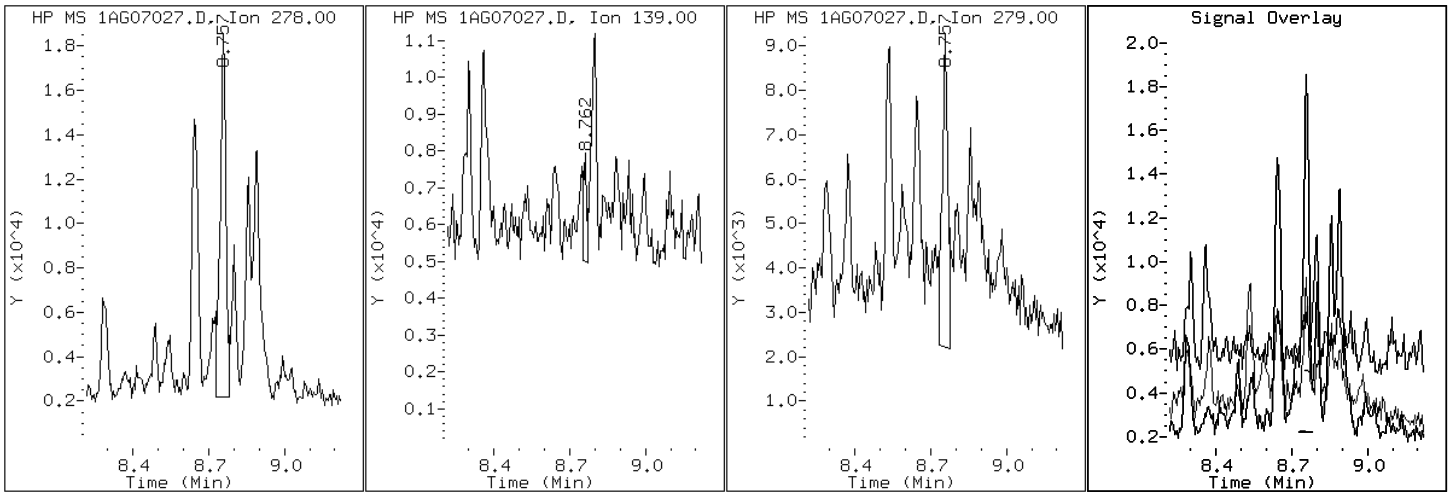
Client ID: CV1363U-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a

Operator: SCC

26 Dibenzo(a,h)anthracene



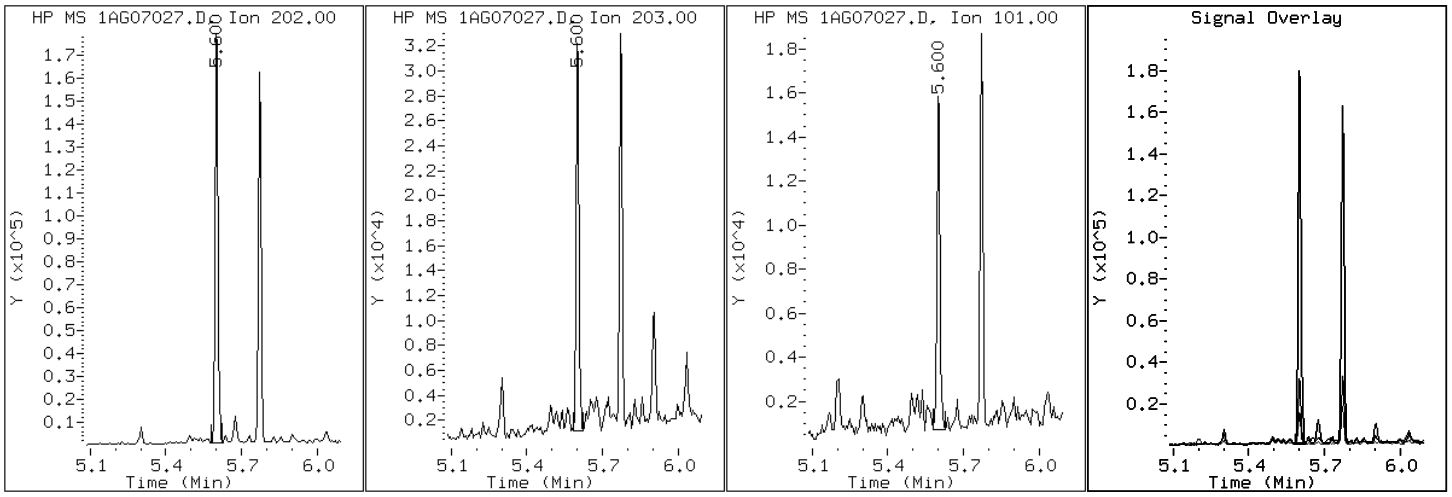
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

16 Fluoranthene



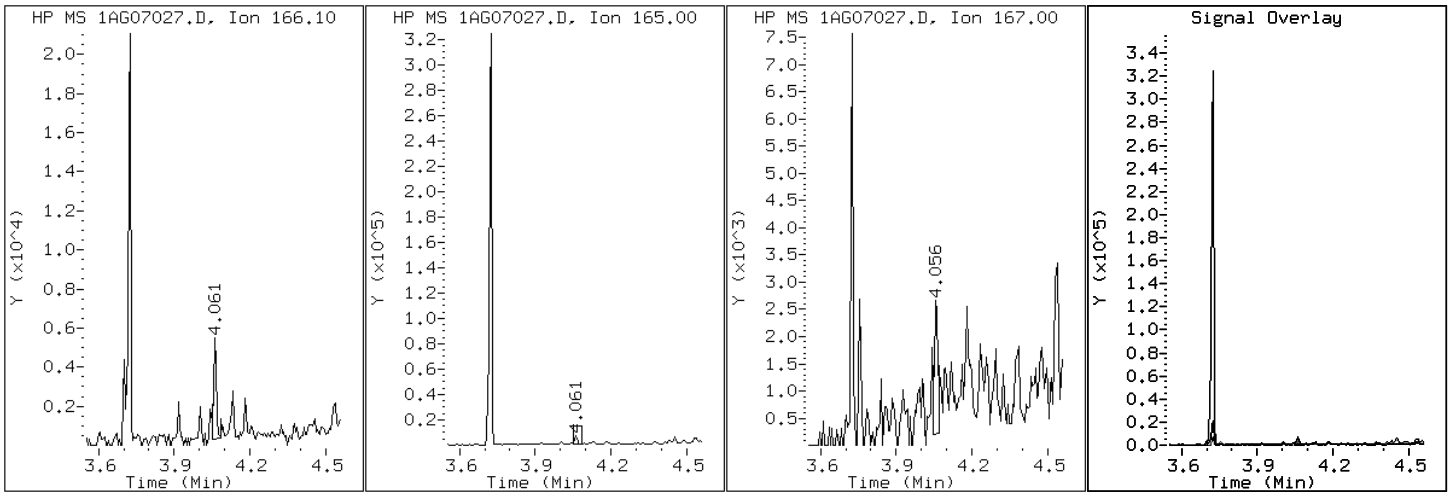
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

10 Fluorene



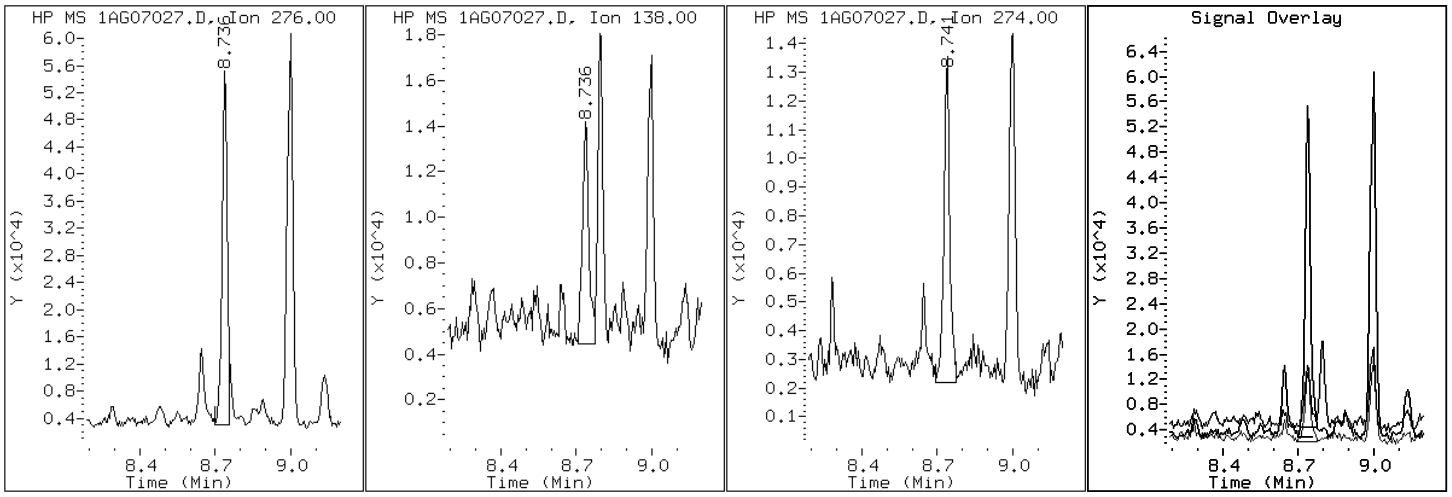
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

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



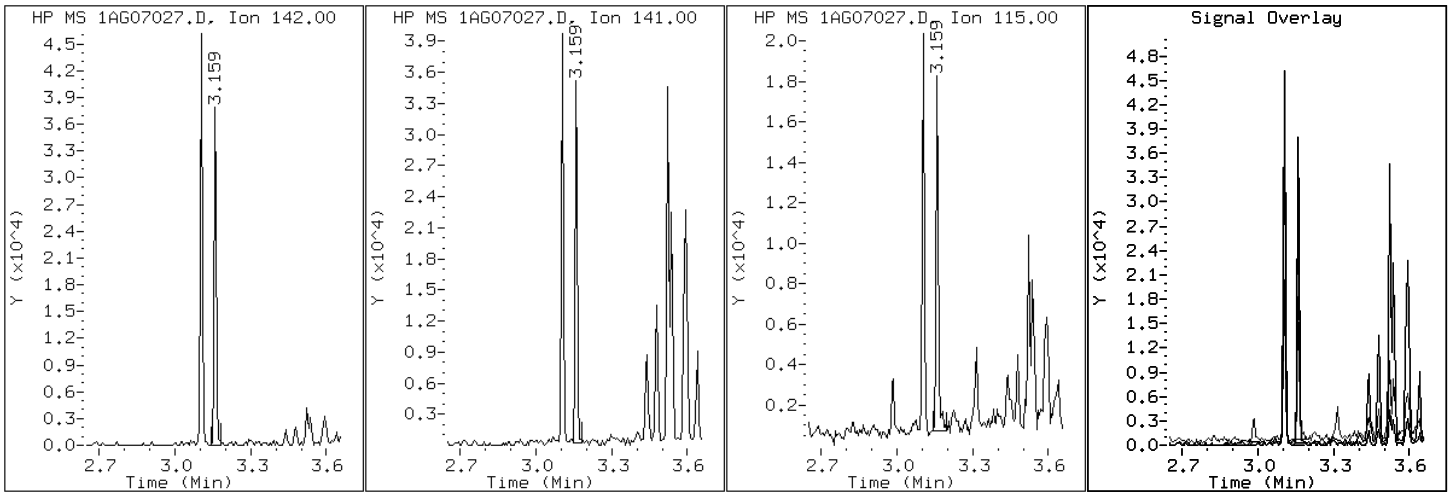
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

4 1-Methylnaphthalene



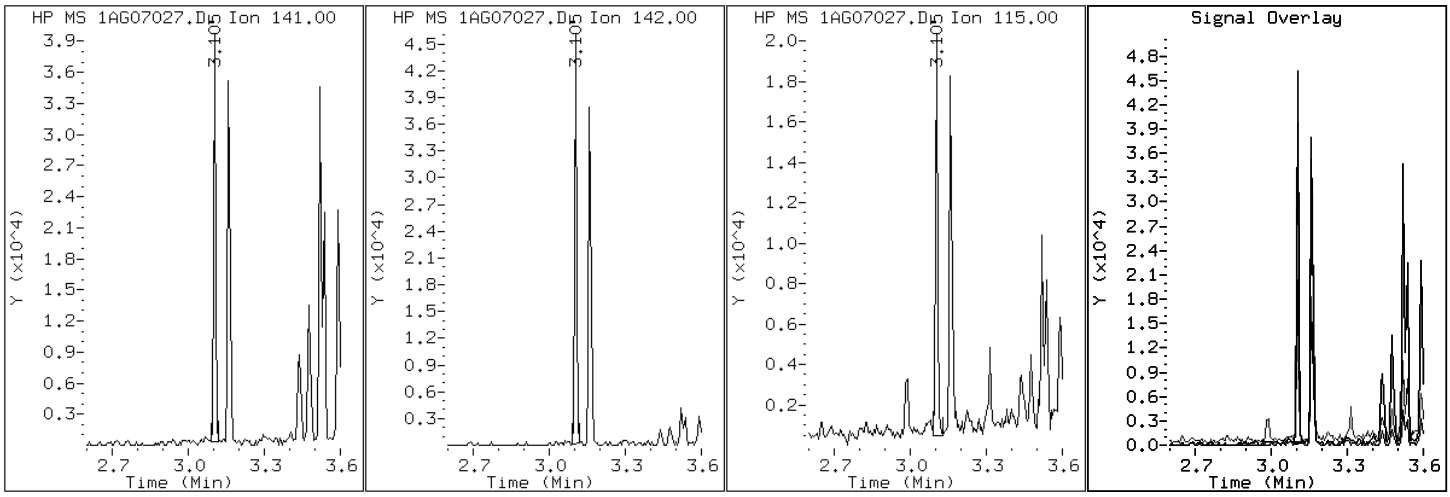
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

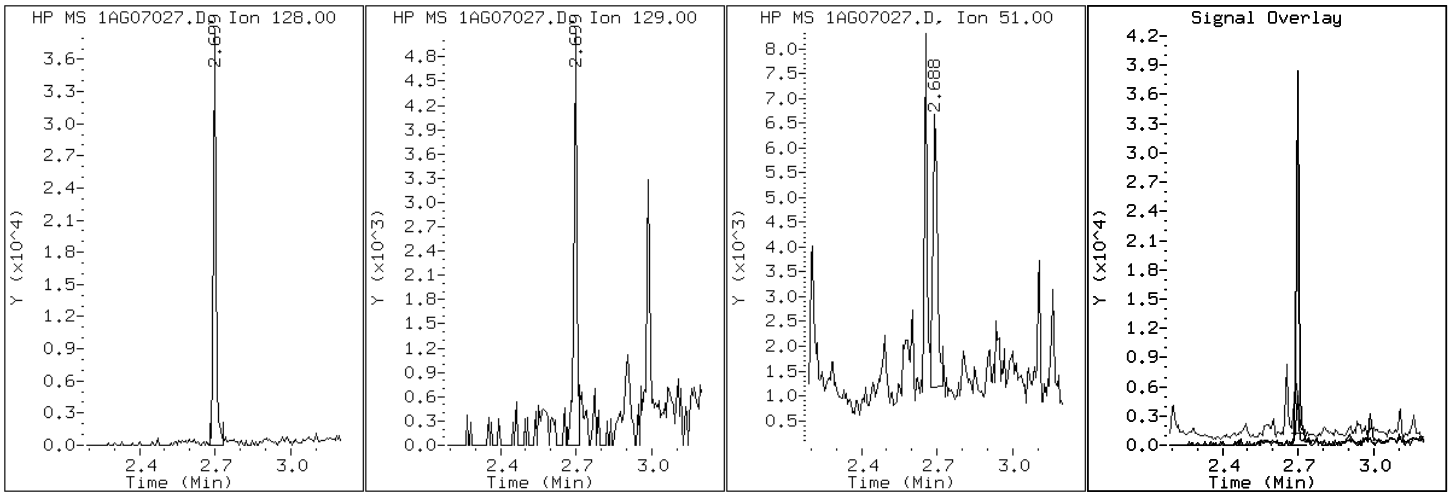
Client ID: CV1363U-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a

Operator: SCC

2 Naphthalene



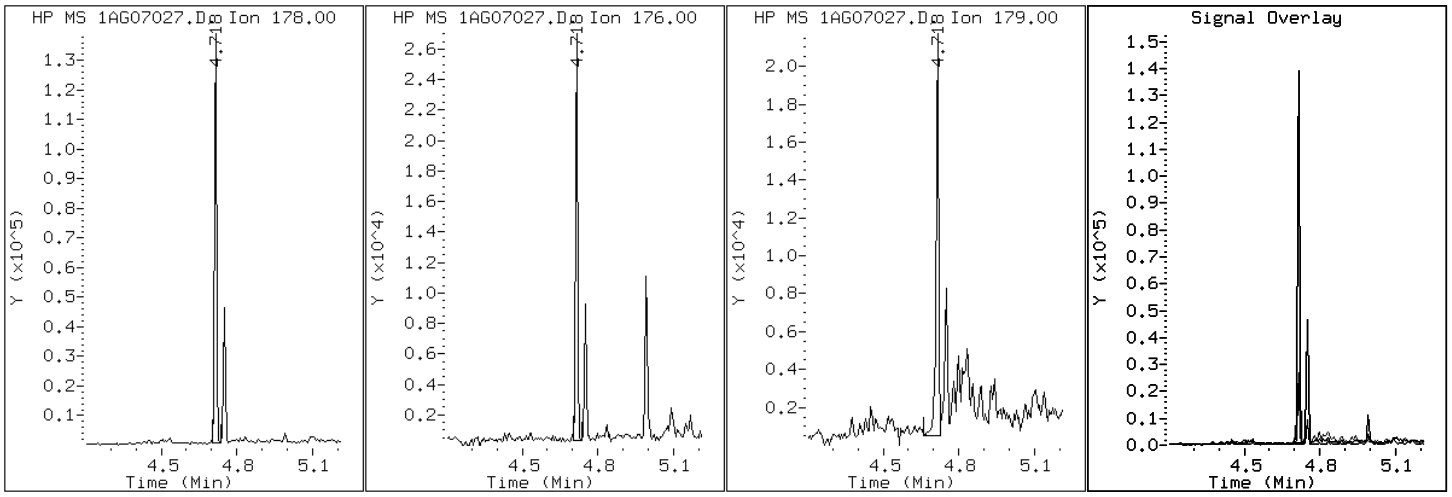
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

12 Phenanthrene



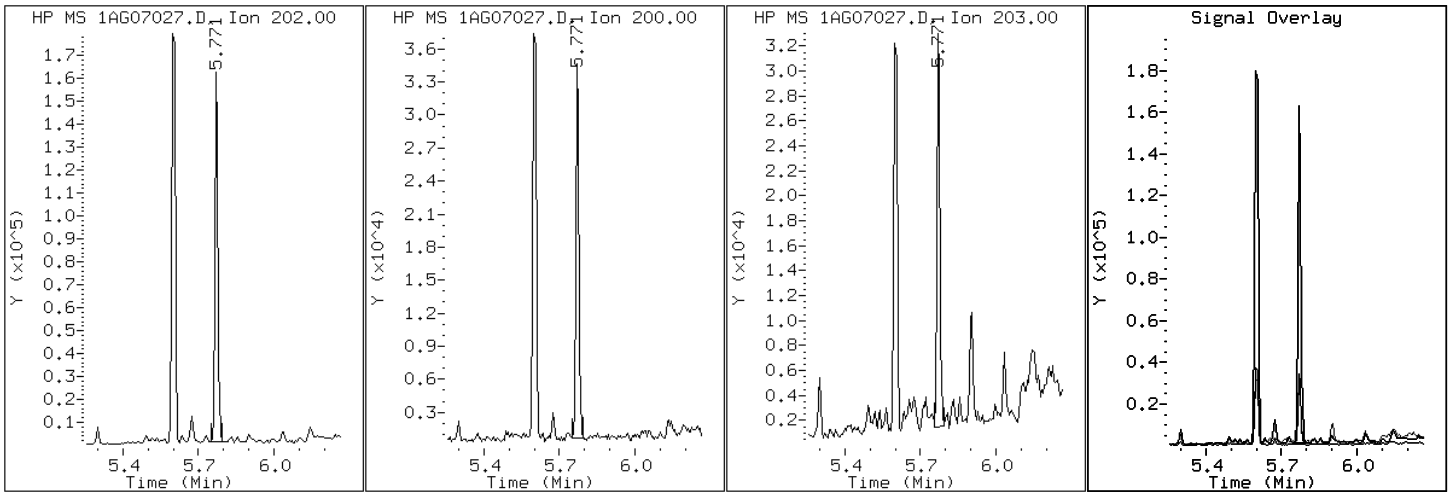
Data File: 1AG07027.D

Date: 07-JUL-2013 20:09

Client ID: CV1363U-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-28-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07027.D
Inj. Date and Time: 07-JUL-2013 20:09
Instrument ID: BSMA5973.i
Client ID: CV1363U-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

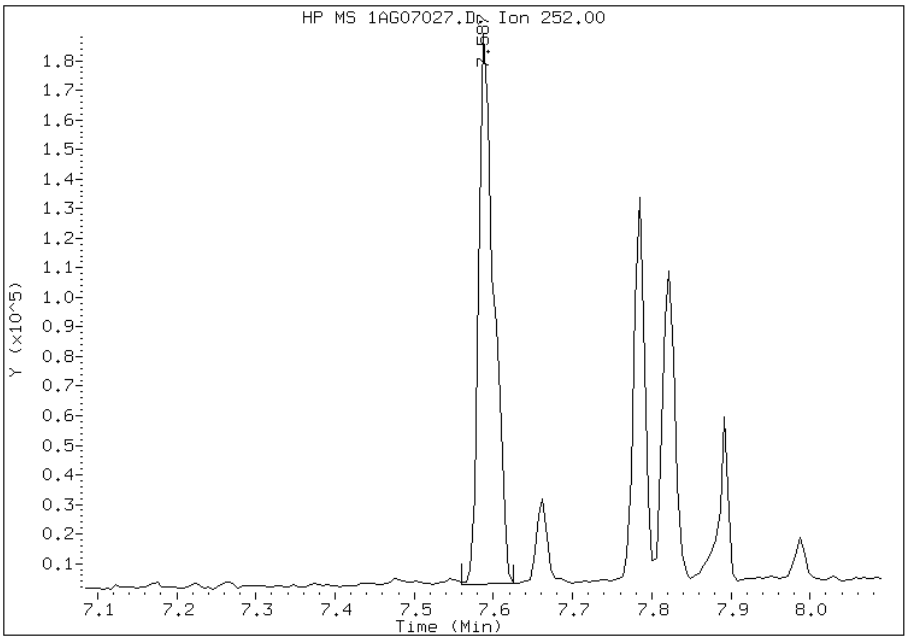
Processing Integration Results

RT: 7.59

Response: 245156

Amount: 2

Conc: 160



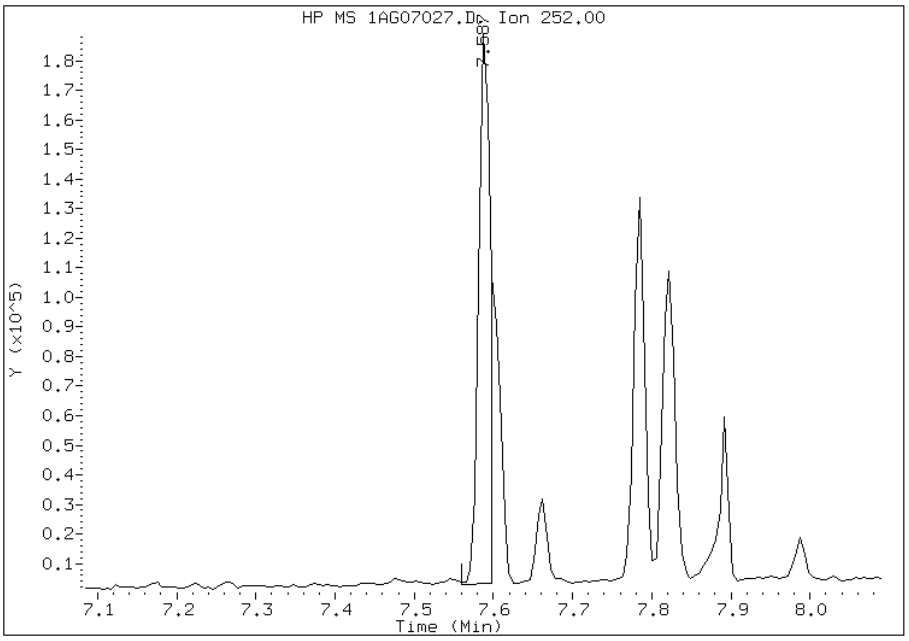
Manual Integration Results

RT: 7.59

Response: 188325

Amount: 2

Conc: 123



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07027.D
Inj. Date and Time: 07-JUL-2013 20:09
Instrument ID: BSMA5973.i
Client ID: CV1363U-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

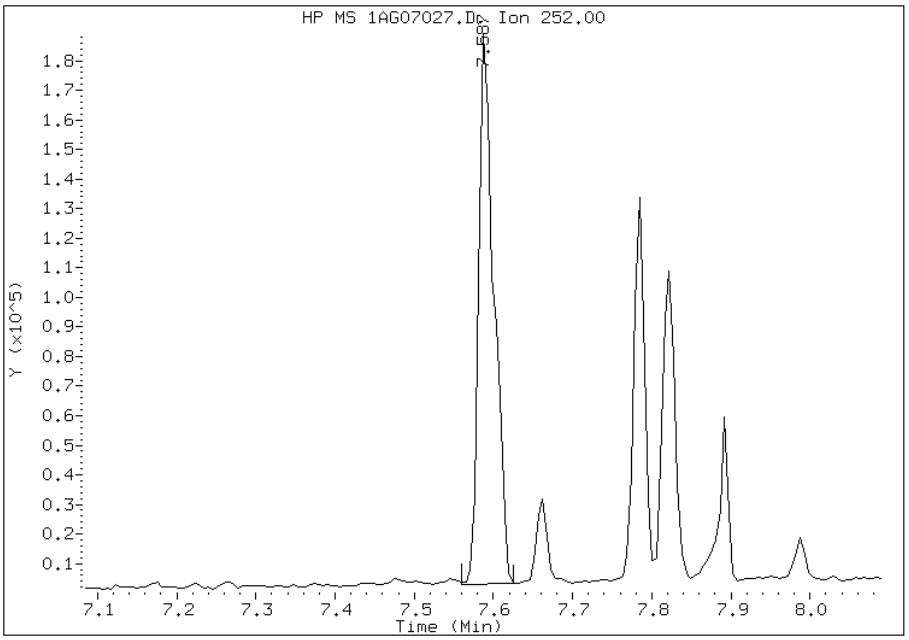
Processing Integration Results

RT: 7.59

Response: 245119

Amount: 2

Conc: 155



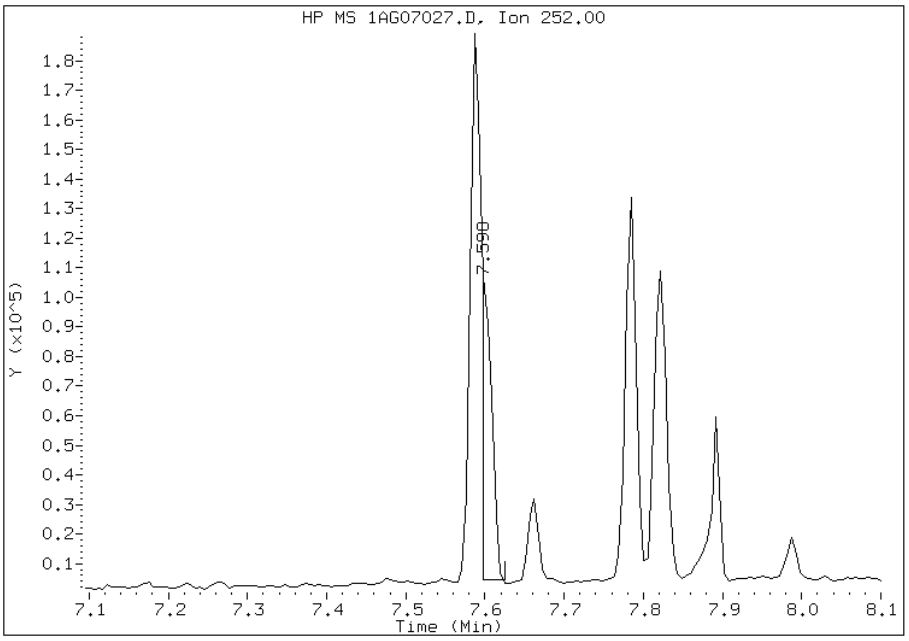
Manual Integration Results

RT: 7.60

Response: 87944

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07027.D
Inj. Date and Time: 07-JUL-2013 20:09
Instrument ID: BSMA5973.i
Client ID: CV1363U-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

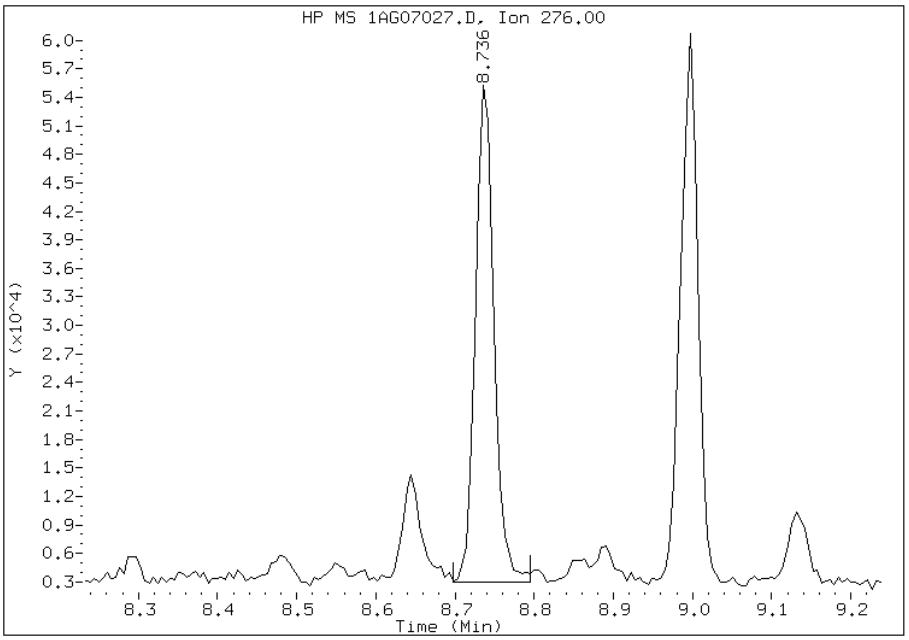
Processing Integration Results

RT: 8.74

Response: 84154

Amount: 1

Conc: 68



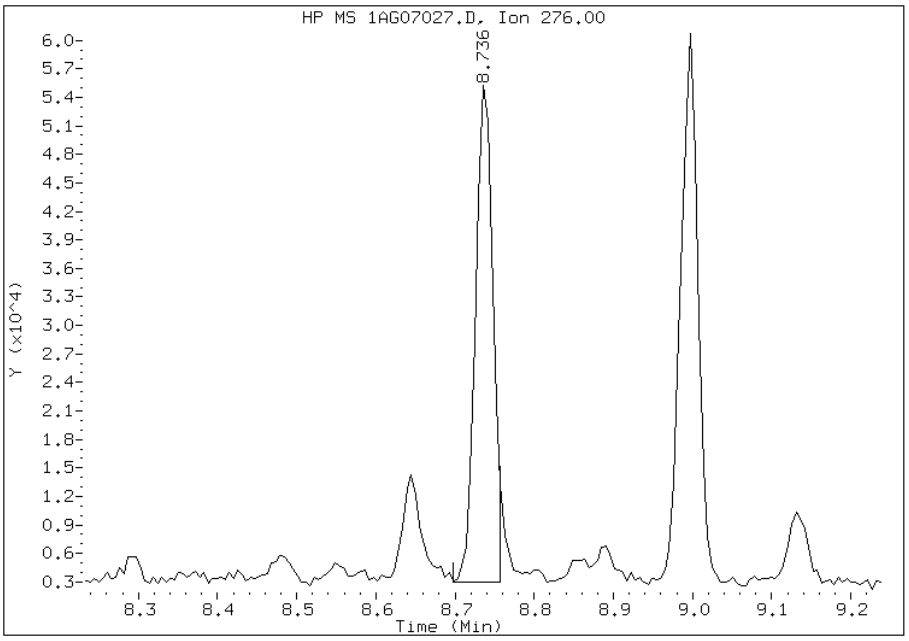
Manual Integration Results

RT: 8.74

Response: 79721

Amount: 1

Conc: 64



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363V-CS | Lab Sample ID: 680-91719-29

Matrix: Solid | Lab File ID: 1AG07028.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 11:25

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 14.97(g) | Date Analyzed: 07/07/2013 20:24

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.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	26	J	48	6.0
120-12-7	Anthracene	38		10	5.0
56-55-3	Benzo[a]anthracene	97		9.6	4.7
50-32-8	Benzo[a]pyrene	99		12	6.2
205-99-2	Benzo[b]fluoranthene	150		15	7.3
191-24-2	Benzo[g,h,i]perylene	86		24	5.3
207-08-9	Benzo[k]fluoranthene	50		9.6	4.3
218-01-9	Chrysene	130		11	5.4
53-70-3	Dibenz(a,h)anthracene	27		24	4.9
206-44-0	Fluoranthene	140		24	4.8
86-73-7	Fluorene	7.3	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	69		24	8.5
90-12-0	1-Methylnaphthalene	72		48	5.3
91-57-6	2-Methylnaphthalene	79		48	8.5
91-20-3	Naphthalene	57		48	5.3
85-01-8	Phenanthrene	120		9.6	4.7
129-00-0	Pyrene	93		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07028.D
Lab Smp Id: 680-91719-A-29-A Client Smp ID: CV1363V-CS
Inj Date : 07-JUL-2013 20:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-29-a
Misc Info : 680-91719-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.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	14.970	Weight Extracted
M	16.300	% 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	2.689	2.683	(1.000)	2616390	40.0000	
* 7 Acenaphthene-d10	164	3.720	3.714	(1.000)	1573063	40.0000	
* 11 Phenanthrene-d10	188	4.703	4.692	(1.000)	2250431	40.0000	
$ 15 o-Terphenyl	230	4.997	4.986	(1.062)	216276	6.32443	504.7449
* 19 Chrysene-d12	240	6.771	6.748	(1.000)	3135564	40.0000	
* 24 Perylene-d12	264	7.887	7.849	(1.000)	3971872	40.0000	(H)
2 Naphthalene	128	2.700	2.694	(1.004)	41877	0.70841	56.5372
3 2-Methylnaphthalene	141	3.106	3.100	(1.155)	33204	0.98451	78.5728
4 1-Methylnaphthalene	142	3.159	3.153	(1.175)	35653	0.90532	72.2528
6 Acenaphthylene	152	3.635	3.629	(0.977)	22801	0.32493	25.9324
10 Fluorene	166	4.062	4.056	(1.092)	4512	0.09171	7.3190(Q)
12 Phenanthrene	178	4.719	4.708	(1.003)	89467	1.56205	124.6654
13 Anthracene	178	4.751	4.740	(1.010)	28078	0.47012	37.5195
16 Fluoranthene	202	5.601	5.589	(1.191)	124642	1.80850	144.3339

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.772	5.760	(0.852)	121866	1.16746	93.1735
18 Benzo(a)anthracene	228	6.765	6.732	(0.999)	130836	1.21074	96.6276
20 Chrysene	228	6.787	6.764	(1.002)	136834	1.61092	128.5656
21 Benzo(b)fluoranthene	252	7.593	7.566	(0.963)	217589	1.92445	153.5879(MH)
22 Benzo(k)fluoranthene	252	7.604	7.587	(0.964)	73605	0.63049	50.3184(QMH)
23 Benzo(a)pyrene	252	7.823	7.795	(0.992)	129116	1.23483	98.5504(H)
25 Indeno(1,2,3-cd)pyrene	276	8.747	8.693	(1.109)	78793	0.86423	68.9727(MH)
26 Dibenzo(a,h)anthracene	278	8.769	8.720	(1.112)	29647	0.34392	27.4480(H)
27 Benzo(g,h,i)perylene	276	9.004	8.944	(1.142)	92737	1.07284	85.6217(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: 1AG07028.D

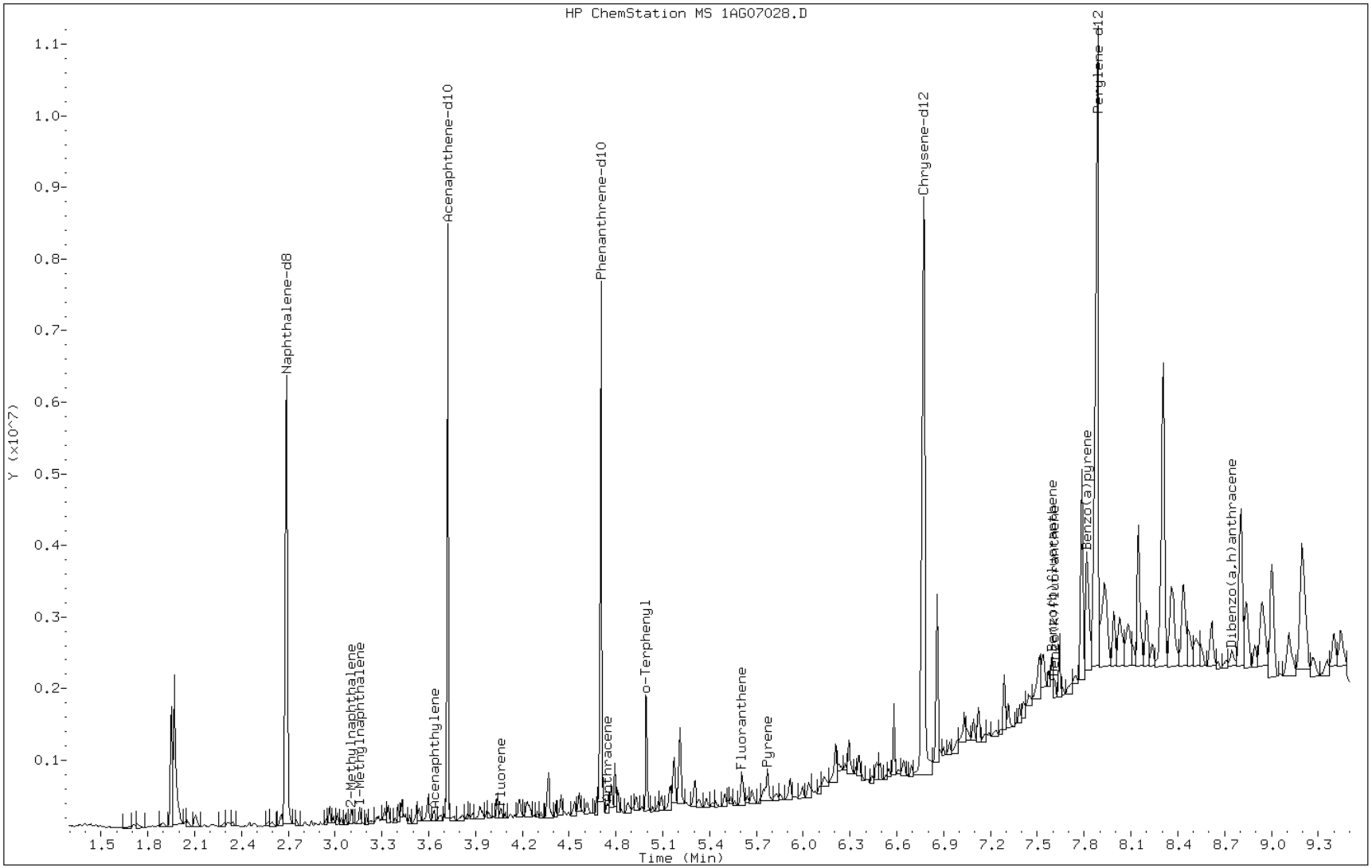
Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a

Operator: SCC



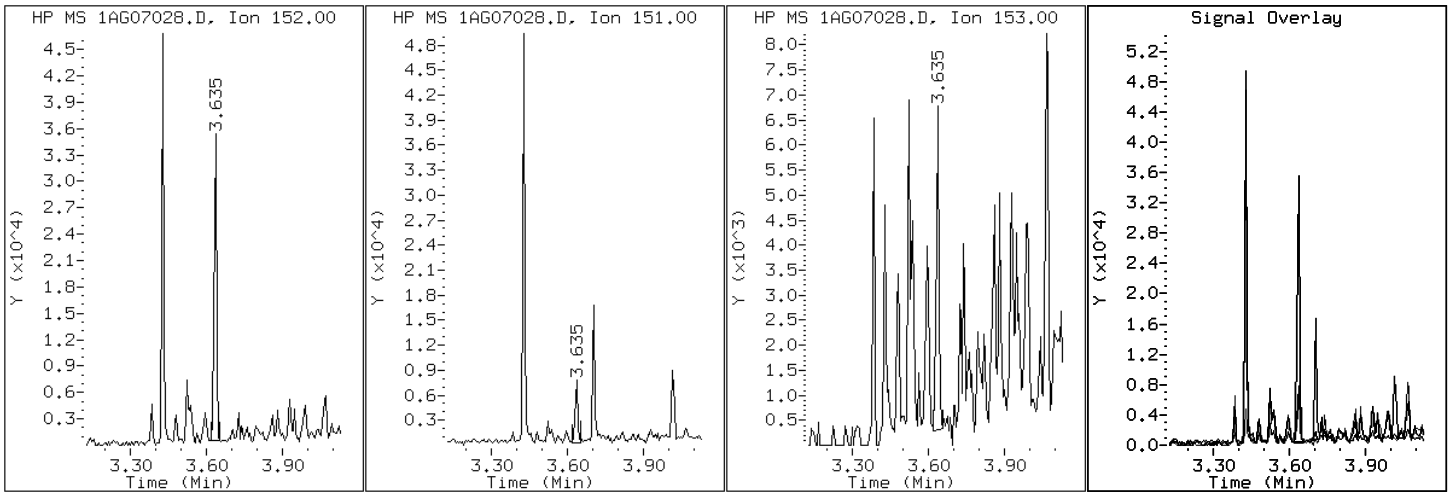
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

6 Acenaphthylene



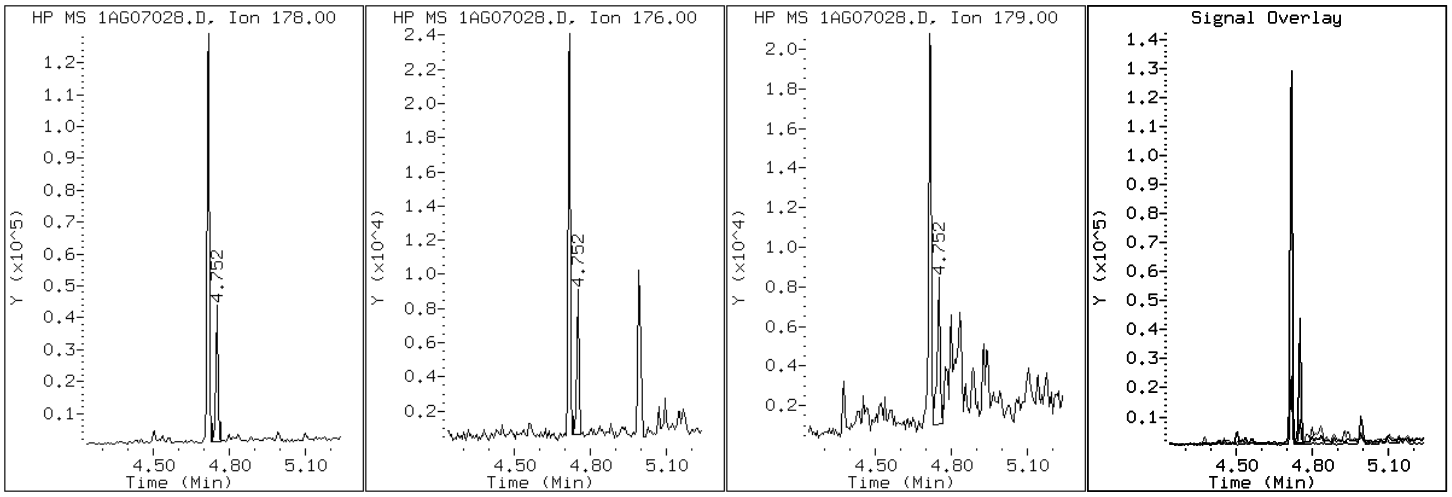
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

13 Anthracene



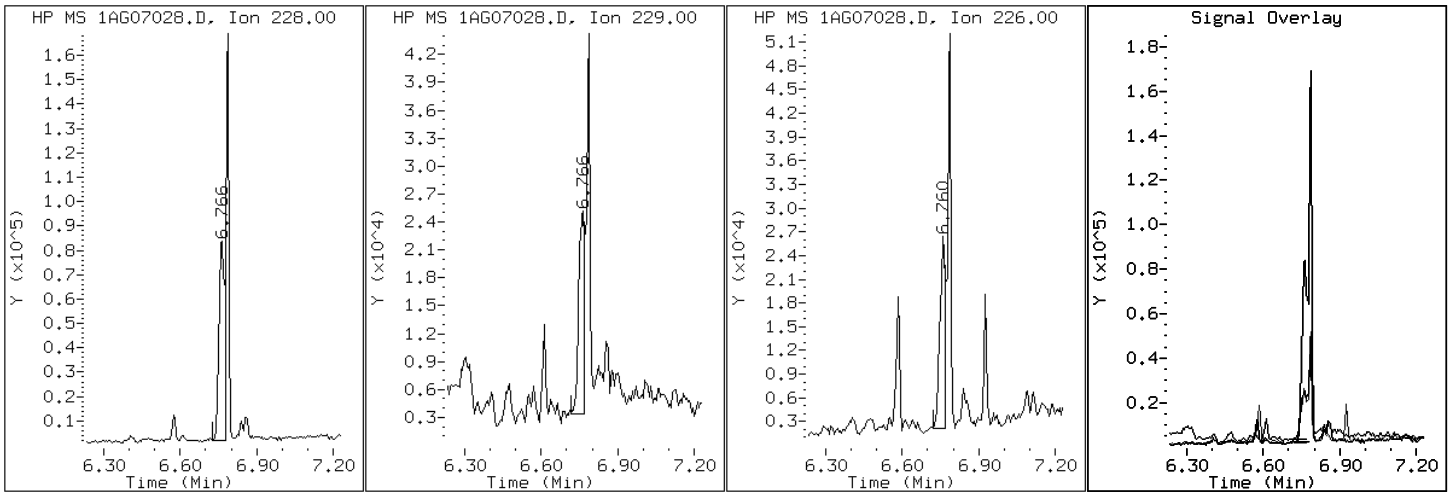
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS | Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a | Operator: SCC

18 Benzo(a)anthracene



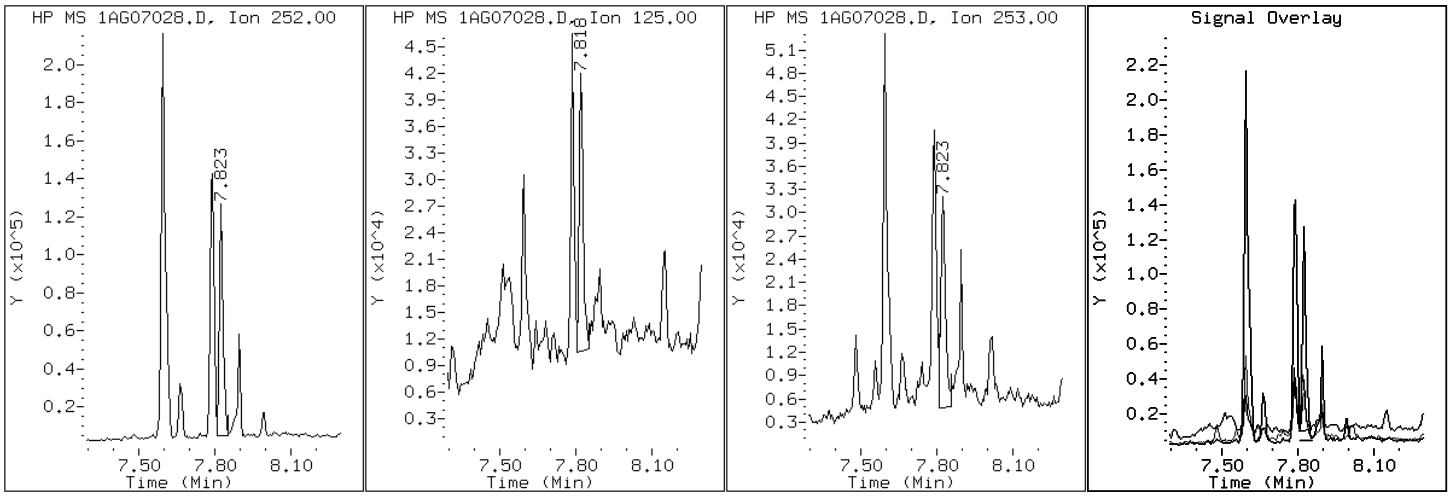
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

23 Benzo(a)pyrene



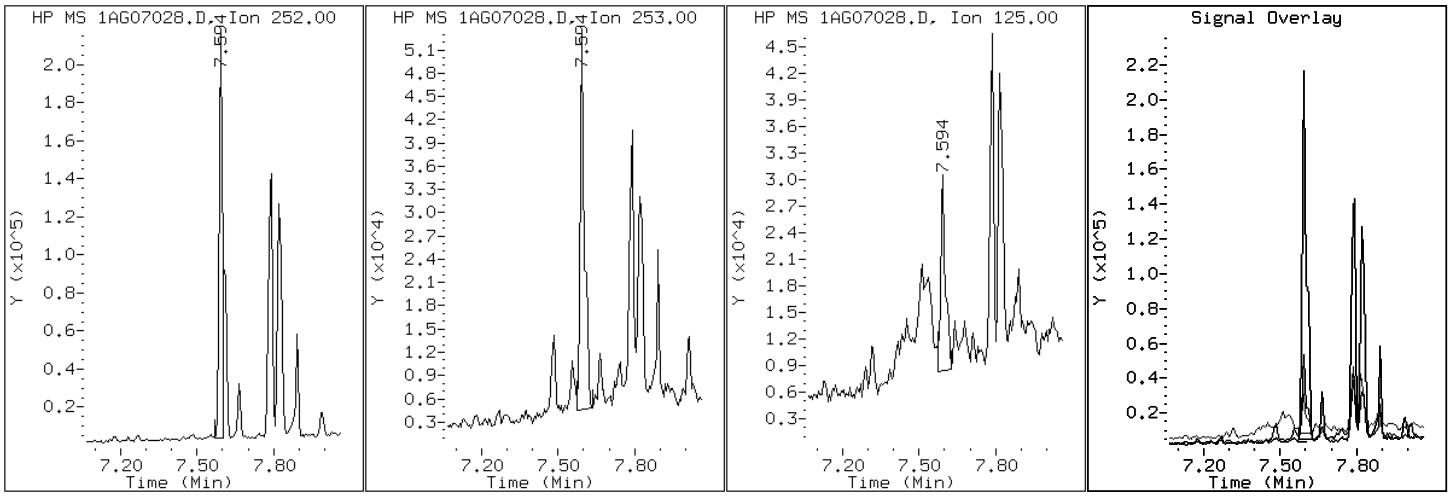
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

21 Benzo(b)fluoranthene



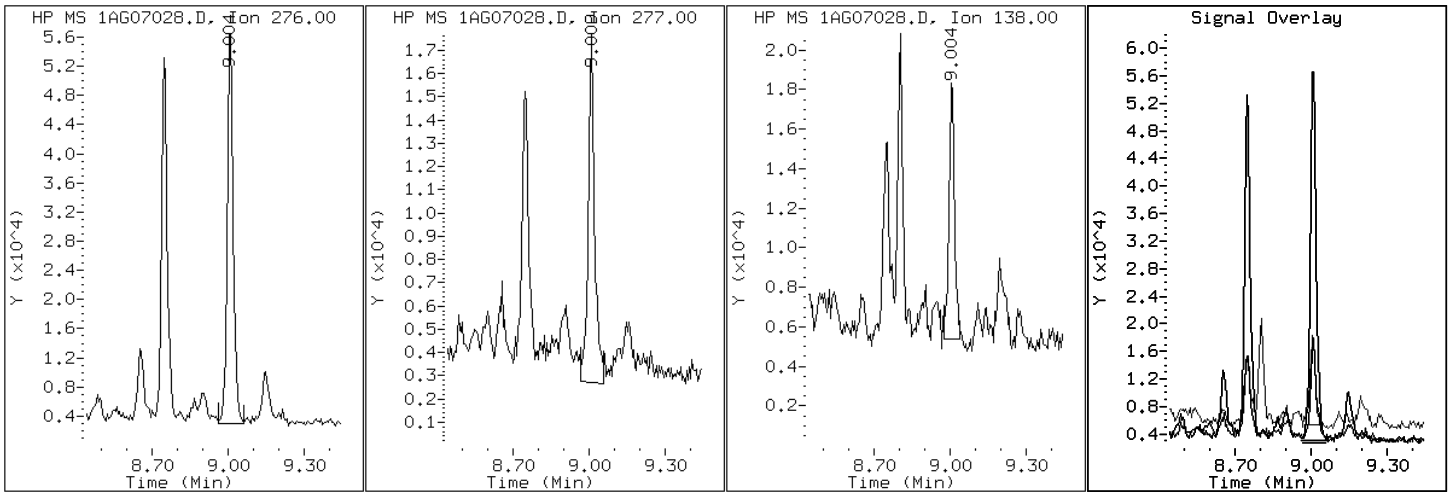
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

27 Benzo(g,h,i)perylene



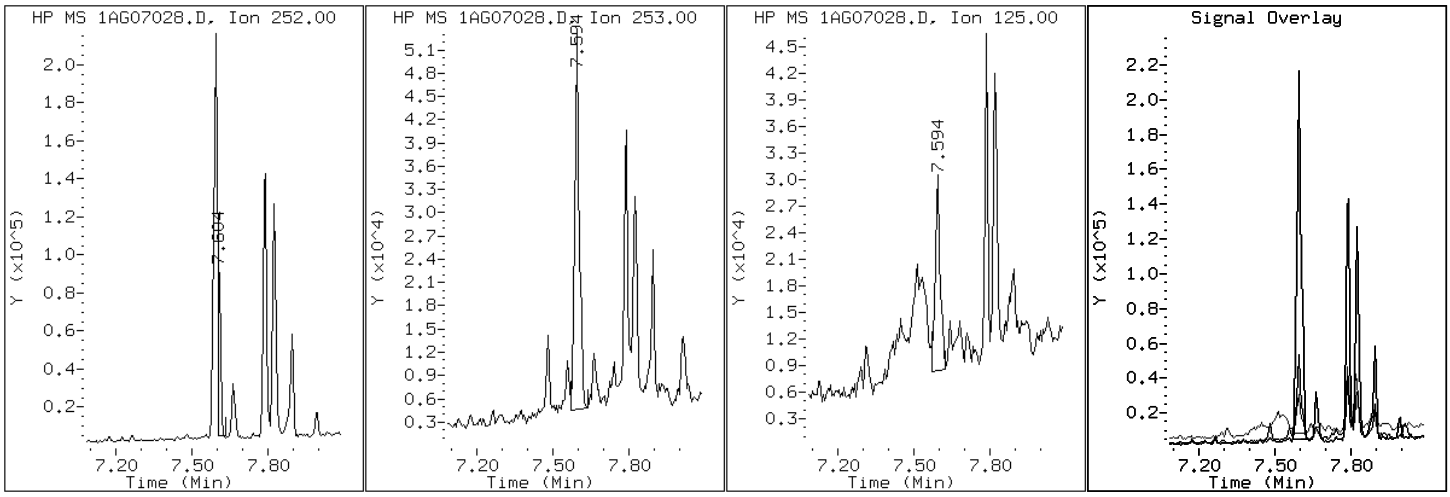
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

22 Benzo(k)fluoranthene



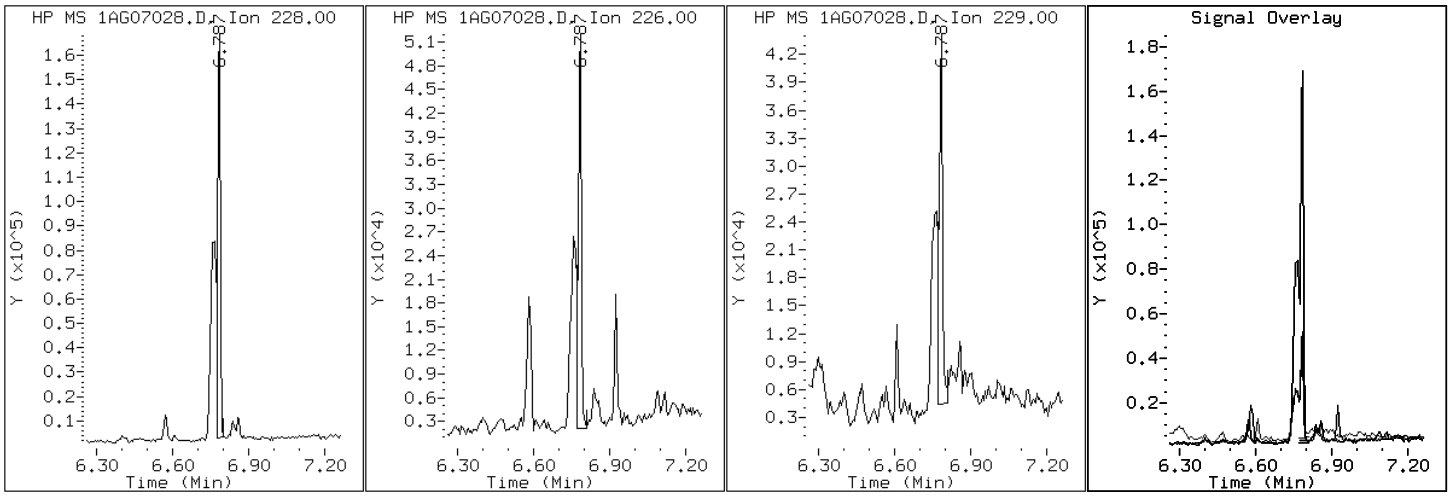
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

20 Chrysene



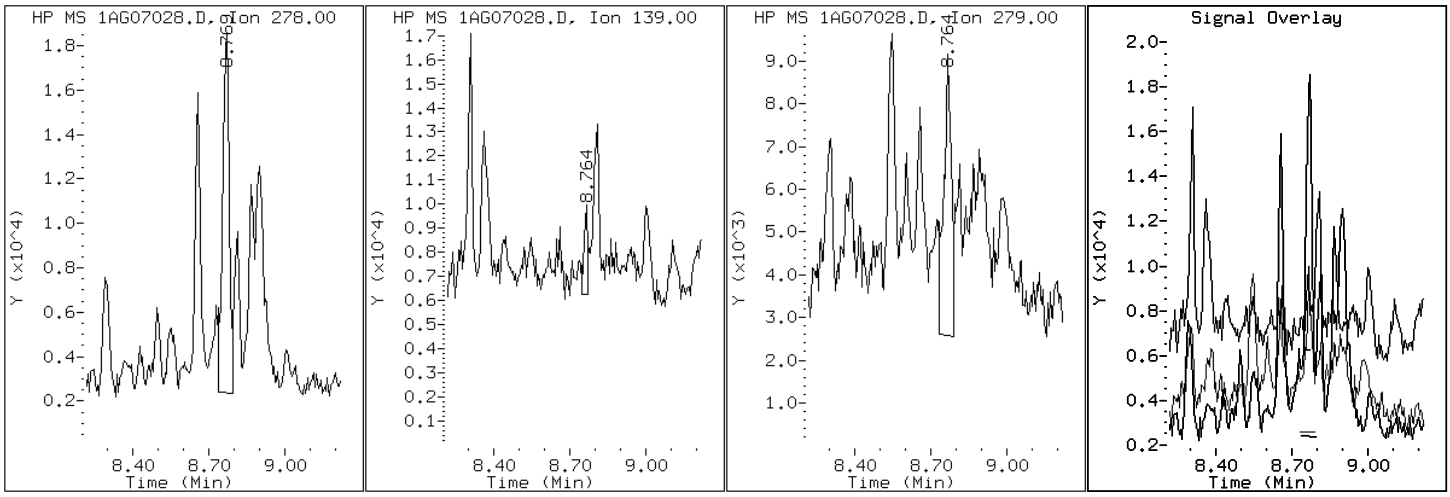
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

26 Dibenzo(a,h)anthracene



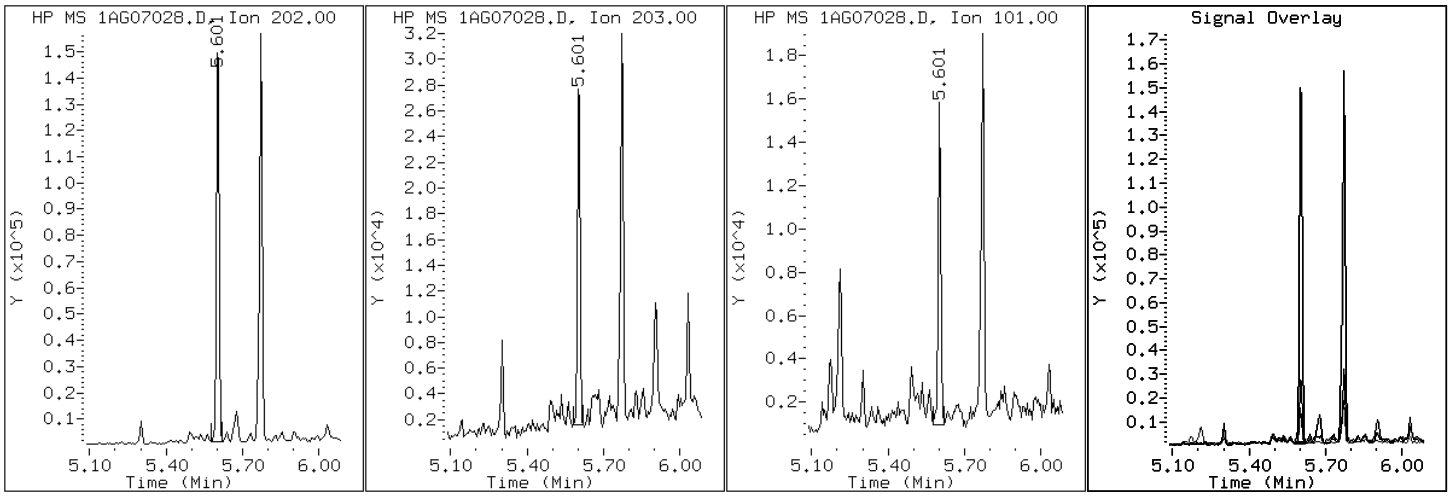
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

16 Fluoranthene



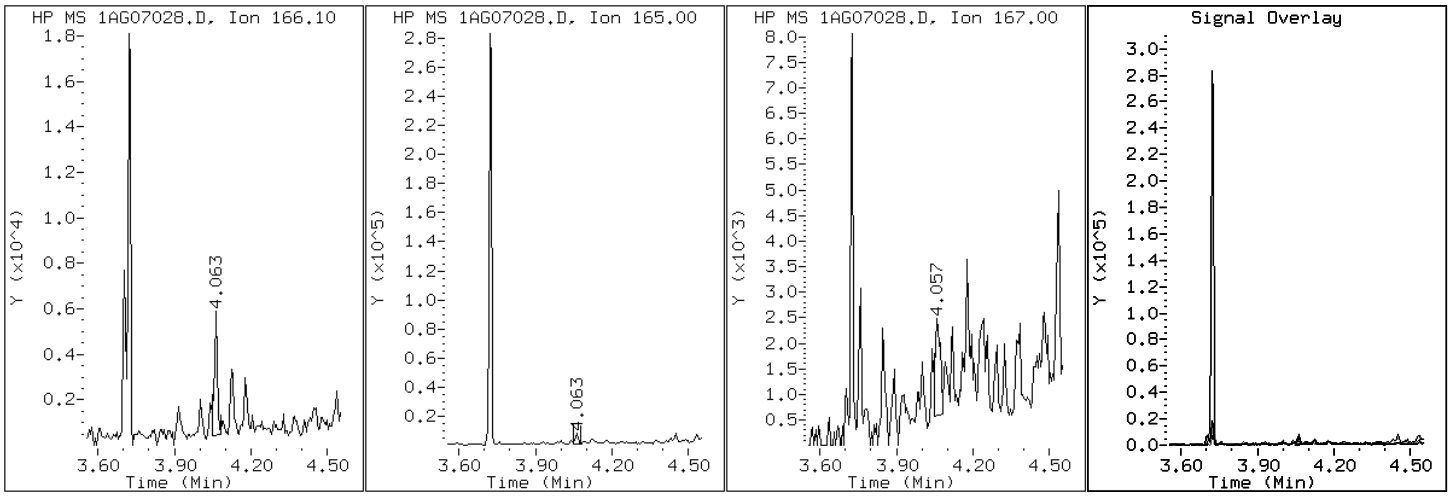
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

10 Fluorene



Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

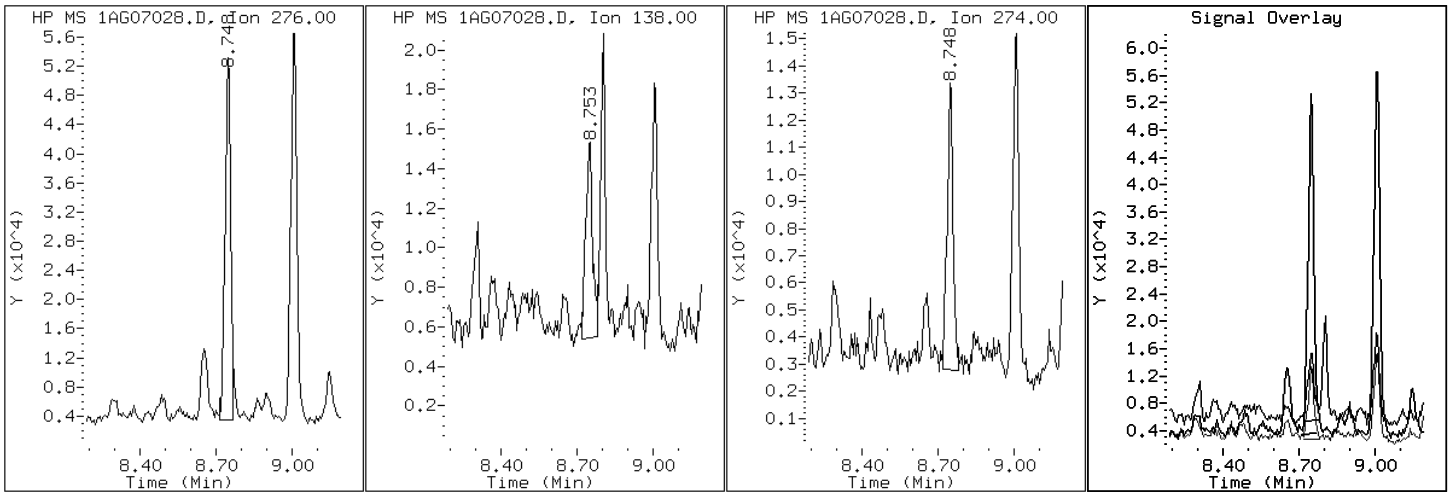
Client ID: CV1363V-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a

Operator: SCC

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



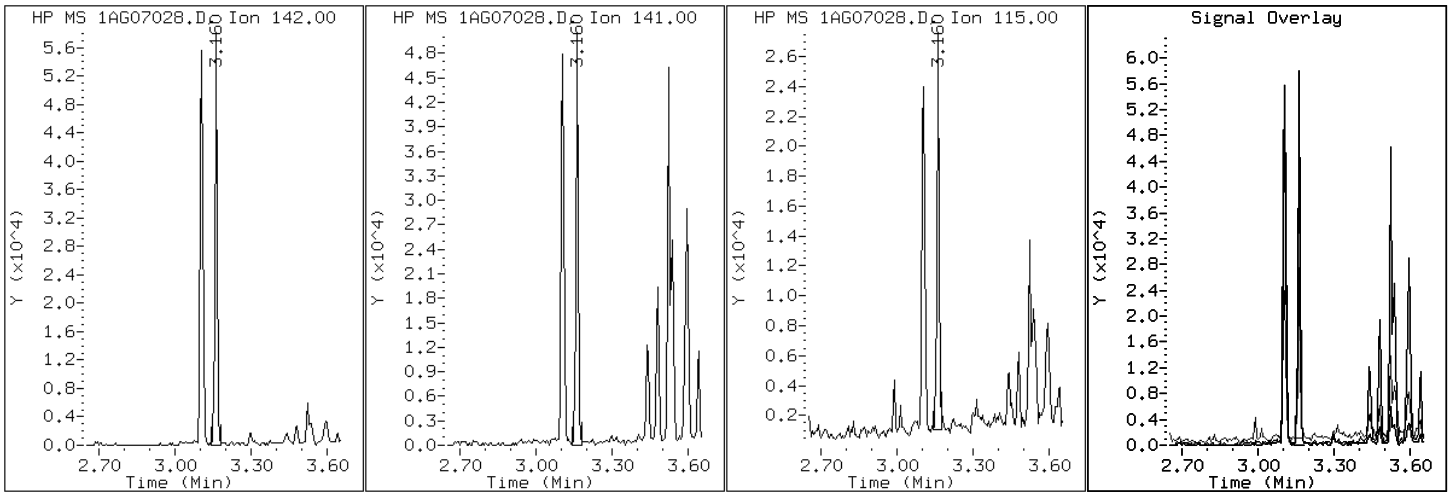
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

4 1-Methylnaphthalene



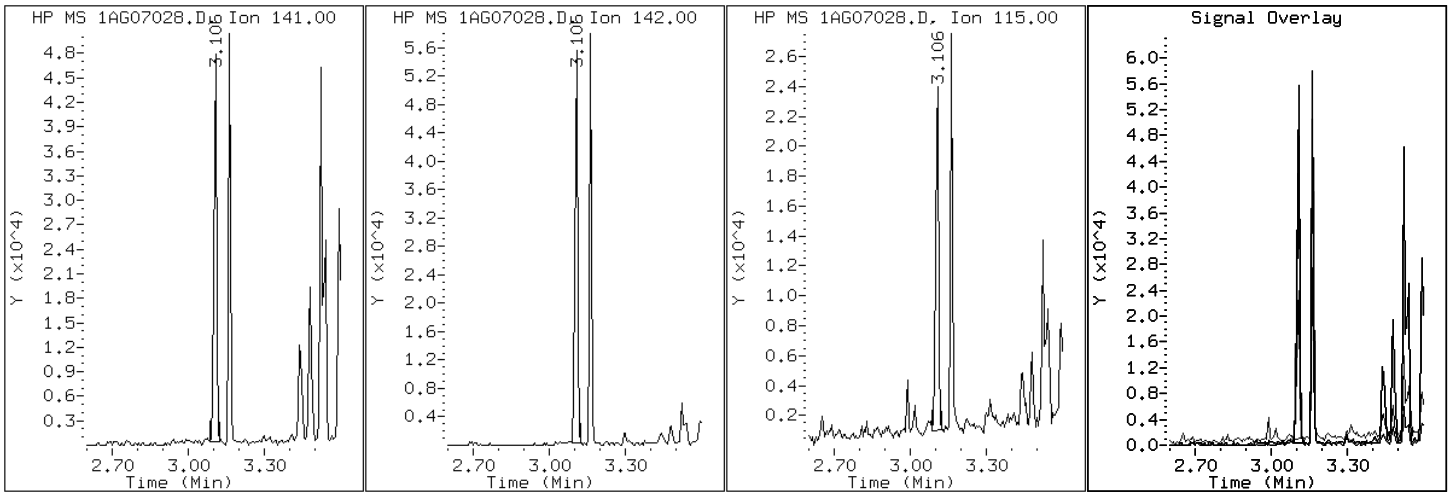
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

3 2-Methylnaphthalene



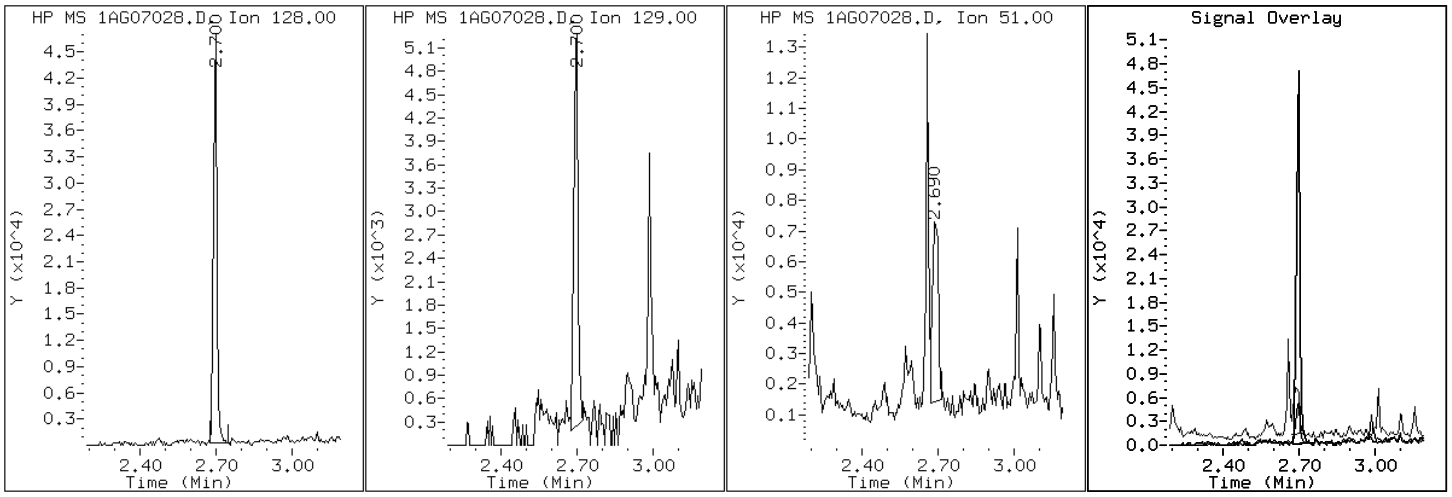
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

2 Naphthalene



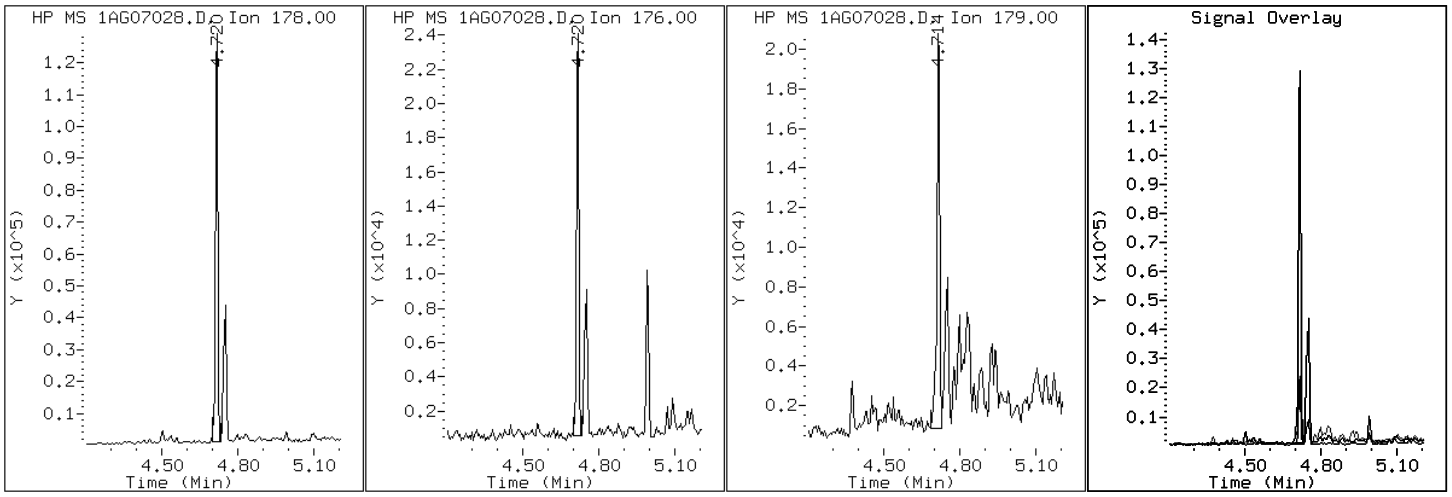
Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

Client ID: CV1363V-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a Operator: SCC

12 Phenanthrene



Data File: 1AG07028.D

Date: 07-JUL-2013 20:24

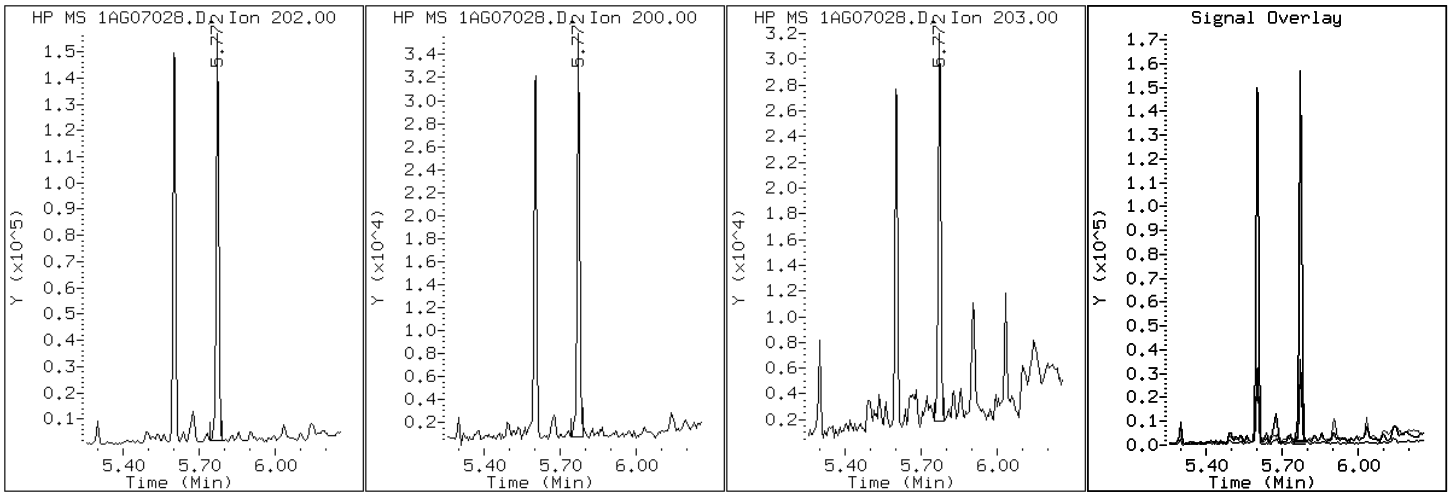
Client ID: CV1363V-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-29-a

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07028.D
Inj. Date and Time: 07-JUL-2013 20:24
Instrument ID: BSMA5973.i
Client ID: CV1363V-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

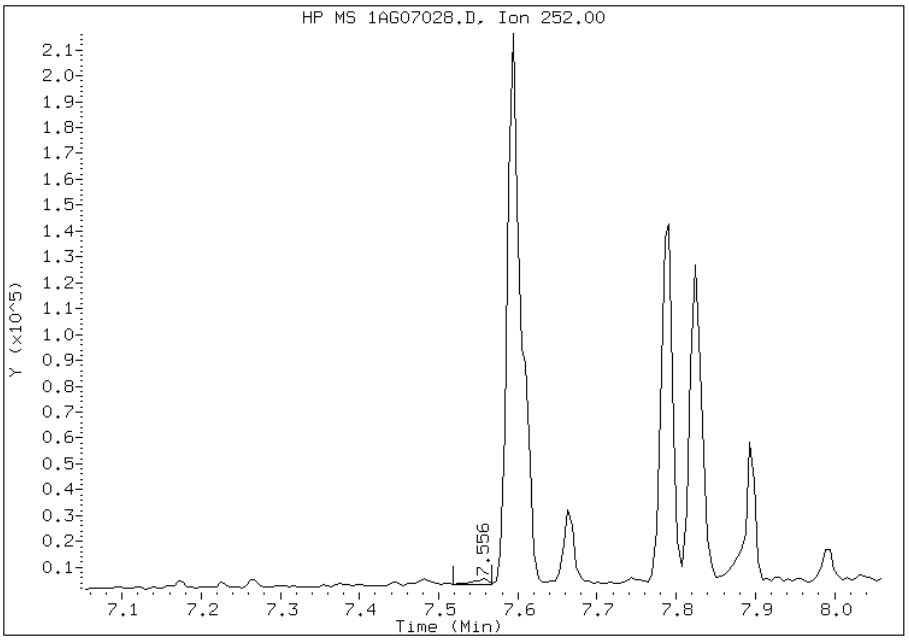
Processing Integration Results

RT: 7.56

Response: 3375

Amount: 0

Conc: 2



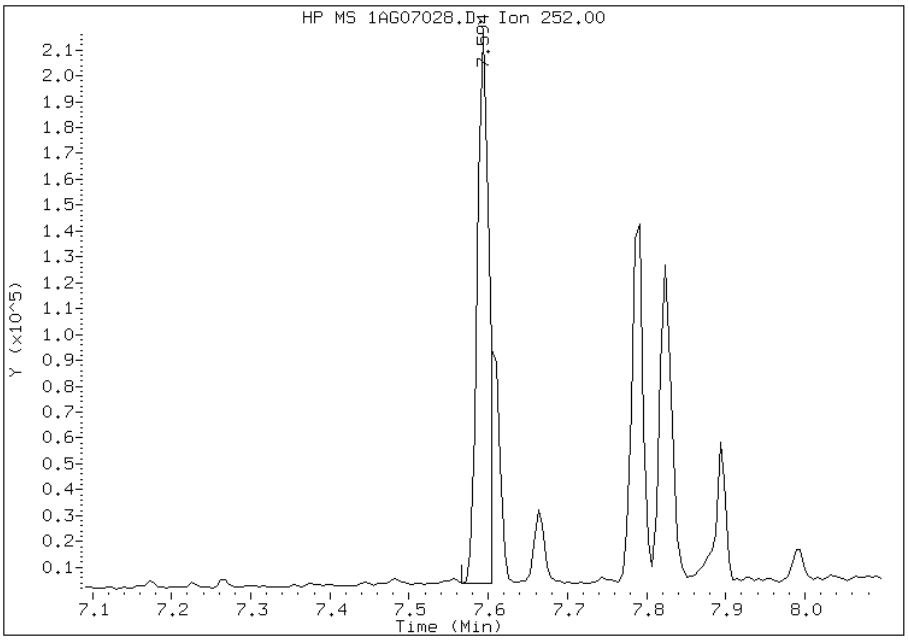
Manual Integration Results

RT: 7.59

Response: 217589

Amount: 2

Conc: 154



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07028.D
Inj. Date and Time: 07-JUL-2013 20:24
Instrument ID: BSMA5973.i
Client ID: CV1363V-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

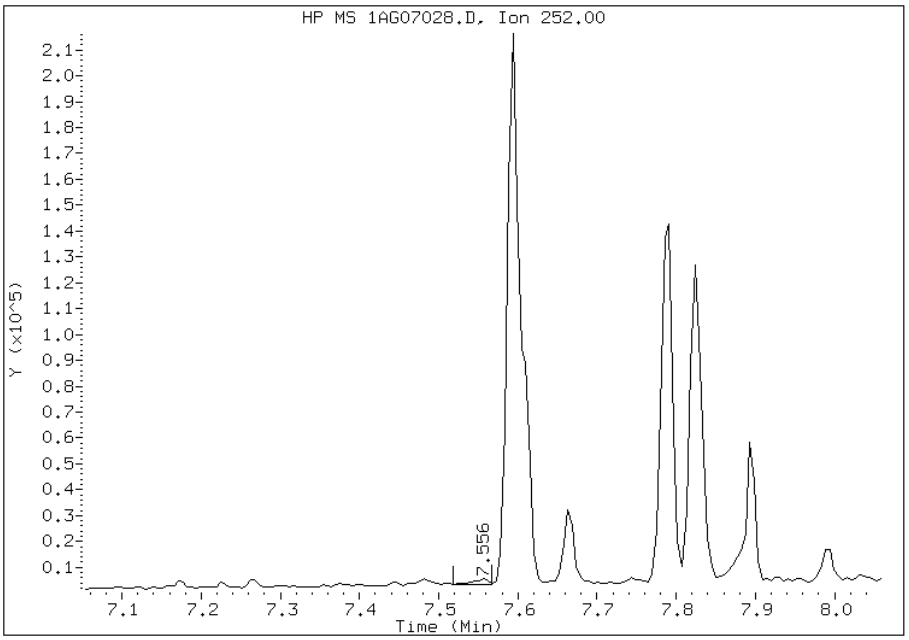
Processing Integration Results

RT: 7.56

Response: 3375

Amount: 0

Conc: 2



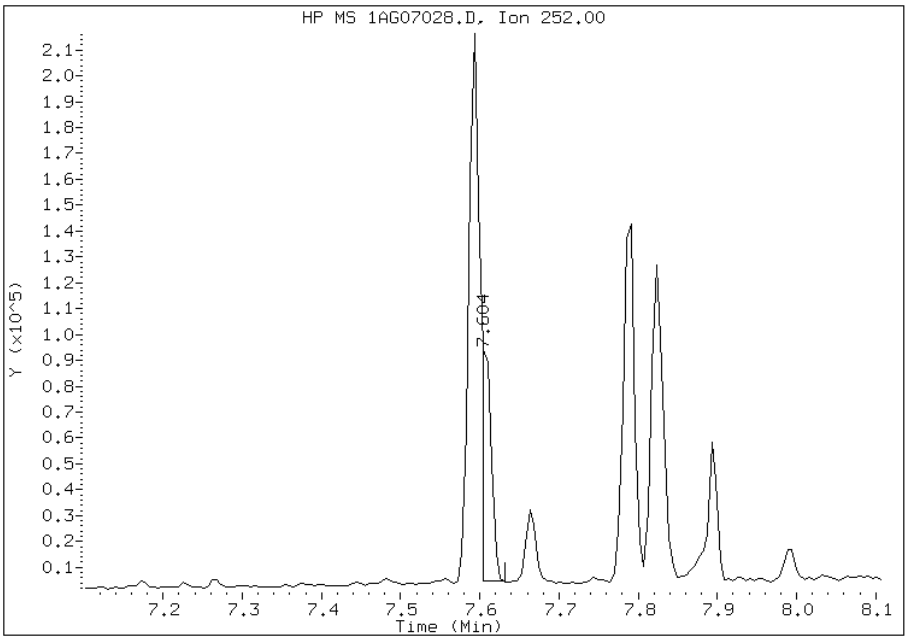
Manual Integration Results

RT: 7.60

Response: 73605

Amount: 1

Conc: 50



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07028.D
Inj. Date and Time: 07-JUL-2013 20:24
Instrument ID: BSMA5973.i
Client ID: CV1363V-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

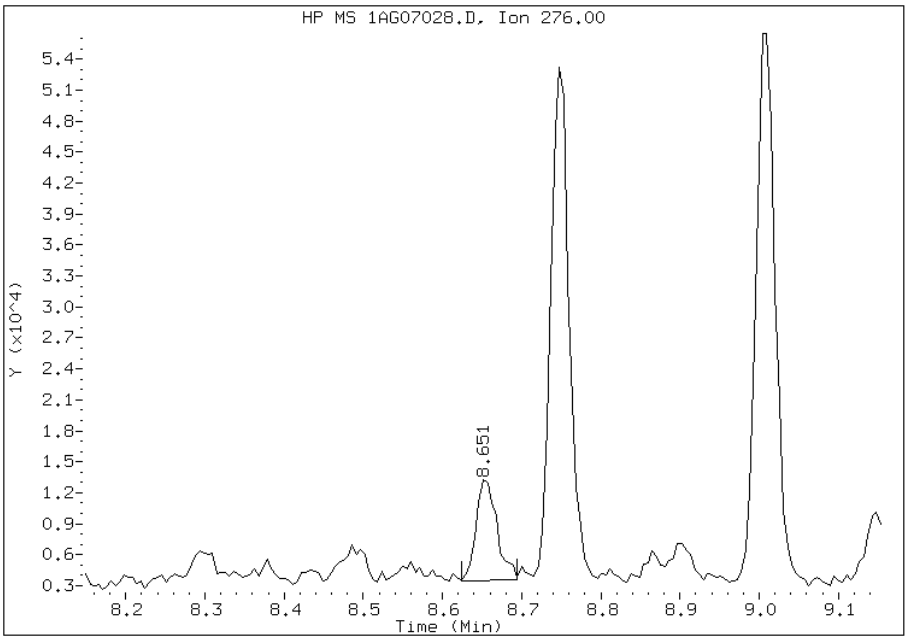
Processing Integration Results

RT: 8.65

Response: 17583

Amount: 0

Conc: 15



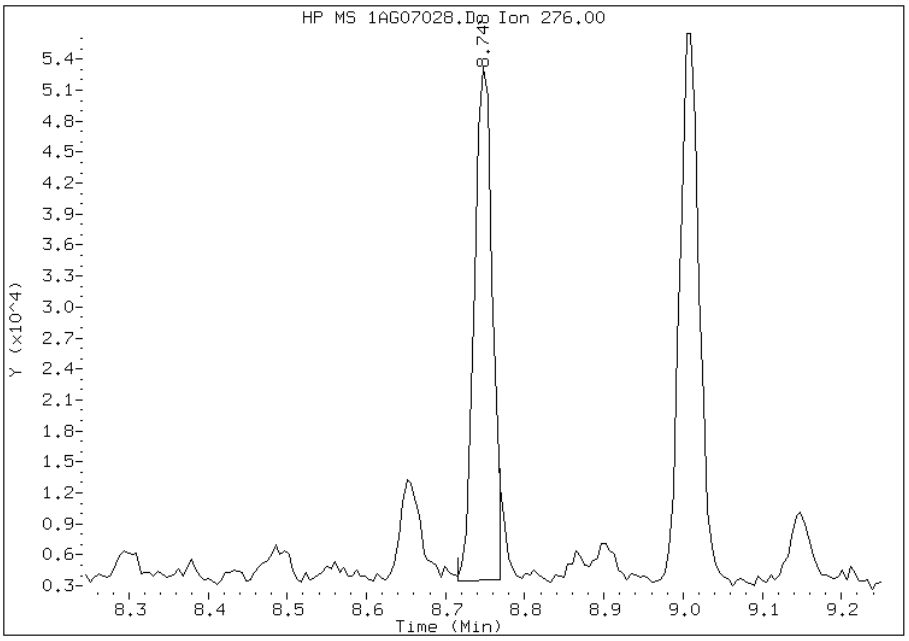
Manual Integration Results

RT: 8.75

Response: 78793

Amount: 1

Conc: 69



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363V-CSD | Lab Sample ID: 680-91719-30

Matrix: Solid | Lab File ID: 1AG07029.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 11:25

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 15.00(g) | Date Analyzed: 07/07/2013 20:39

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

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

% Moisture: 15.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	30	J	47	5.9
120-12-7	Anthracene	43		9.9	5.0
56-55-3	Benzo[a]anthracene	96		9.5	4.6
50-32-8	Benzo[a]pyrene	100		12	6.2
205-99-2	Benzo[b]fluoranthene	180		14	7.2
191-24-2	Benzo[g,h,i]perylene	80		24	5.2
207-08-9	Benzo[k]fluoranthene	45		9.5	4.3
218-01-9	Chrysene	150		11	5.3
53-70-3	Dibenz(a,h)anthracene	28		24	4.9
206-44-0	Fluoranthene	150		24	4.7
86-73-7	Fluorene	8.1	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	68		24	8.4
90-12-0	1-Methylnaphthalene	68		47	5.2
91-57-6	2-Methylnaphthalene	80		47	8.4
91-20-3	Naphthalene	61		47	5.2
85-01-8	Phenanthrene	120		9.5	4.6
129-00-0	Pyrene	98		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07029.D
Lab Smp Id: 680-91719-A-30-A Client Smp ID: CV1363V-CSD
Inj Date : 07-JUL-2013 20:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-30-a
Misc Info : 680-91719-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.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	15.545	% 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	2.689	2.683	(1.000)	2575884	40.0000	
* 7 Acenaphthene-d10	164	3.726	3.714	(1.000)	1569025	40.0000	
* 11 Phenanthrene-d10	188	4.703	4.692	(1.000)	2328647	40.0000	
$ 15 o-Terphenyl	230	4.997	4.986	(1.062)	190813	5.39241	425.6649
* 19 Chrysene-d12	240	6.776	6.748	(1.000)	3237428	40.0000	
* 24 Perylene-d12	264	7.887	7.849	(1.000)	4021394	40.0000	(H)
2 Naphthalene	128	2.700	2.694	(1.004)	44802	0.76981	60.7668
3 2-Methylnaphthalene	141	3.106	3.100	(1.155)	33628	1.01277	79.9454
4 1-Methylnaphthalene	142	3.159	3.153	(1.175)	33287	0.85854	67.7709
6 Acenaphthylene	152	3.635	3.629	(0.976)	26305	0.37583	29.6673
10 Fluorene	166	4.062	4.056	(1.090)	5005	0.10199	8.0507
12 Phenanthrene	178	4.719	4.708	(1.003)	89981	1.51826	119.8478
13 Anthracene	178	4.751	4.740	(1.010)	33823	0.54729	43.2016
16 Fluoranthene	202	5.606	5.589	(1.192)	138273	1.93889	153.0515

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.777	5.760	(0.853)	134261	1.24573	98.3353
18 Benzo(a)anthracene	228	6.765	6.732	(0.998)	135795	1.21763	96.1173
20 Chrysene	228	6.787	6.764	(1.002)	165070	1.88219	148.5760
21 Benzo(b)fluoranthene	252	7.593	7.566	(0.963)	263126	2.29854	181.4415(MH)
22 Benzo(k)fluoranthene	252	7.609	7.587	(0.965)	67905	0.57450	45.3497(QMH)
23 Benzo(a)pyrene	252	7.828	7.795	(0.993)	133516	1.26119	99.5553(H)
25 Indeno(1,2,3-cd)pyrene	276	8.753	8.693	(1.110)	80073	0.86745	68.4745(MH)
26 Dibenzo(a,h)anthracene	278	8.774	8.720	(1.112)	30536	0.34987	27.6181(H)
27 Benzo(g,h,i)perylene	276	9.014	8.944	(1.143)	88330	1.00927	79.6695(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: 1AG07029.D

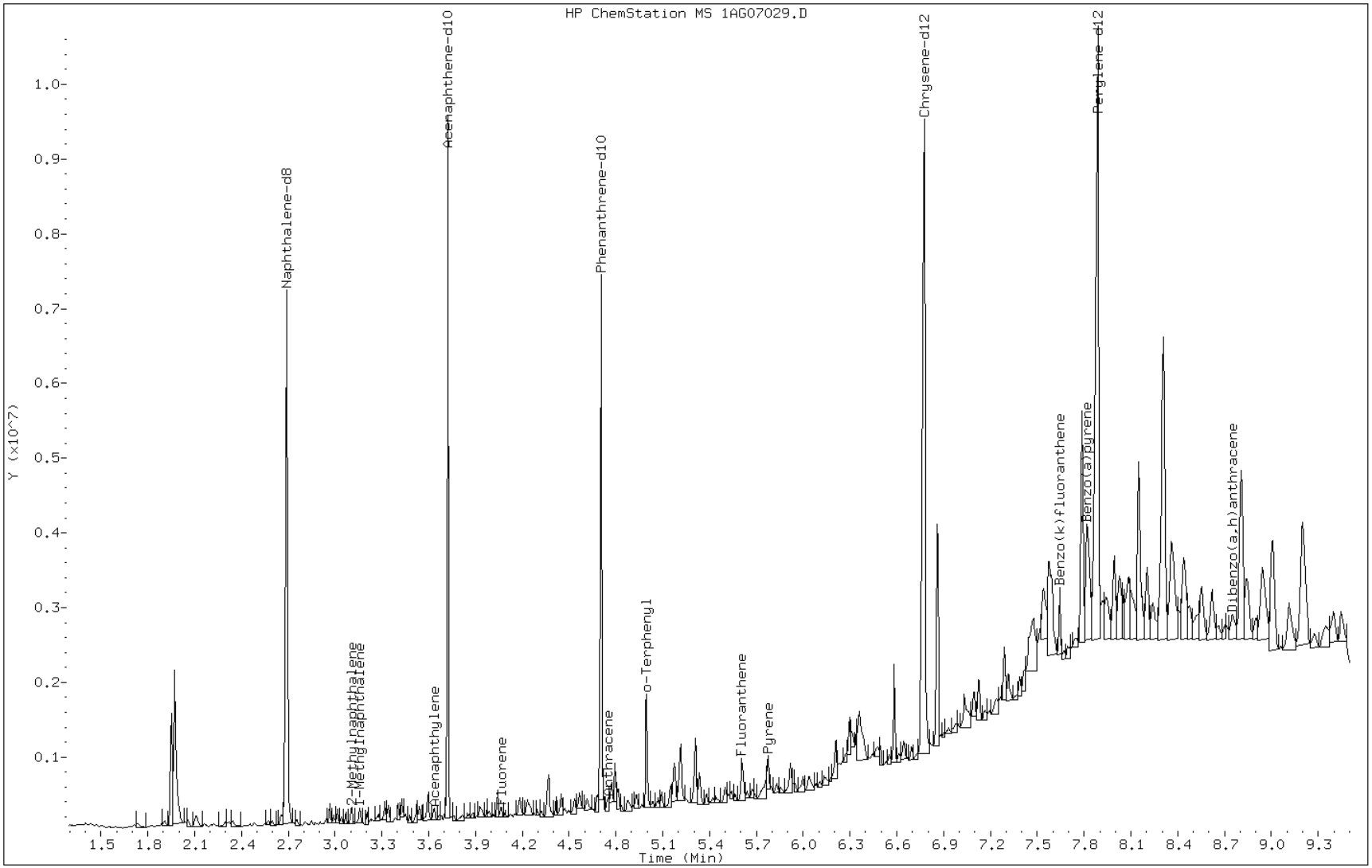
Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a

Operator: SCC



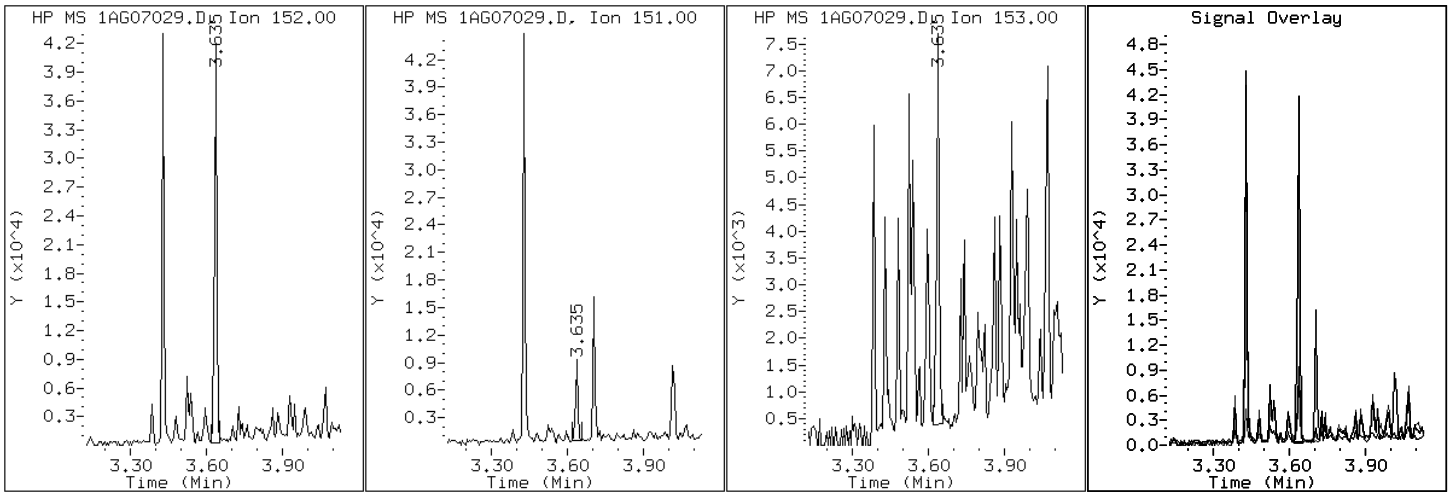
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

6 Acenaphthylene



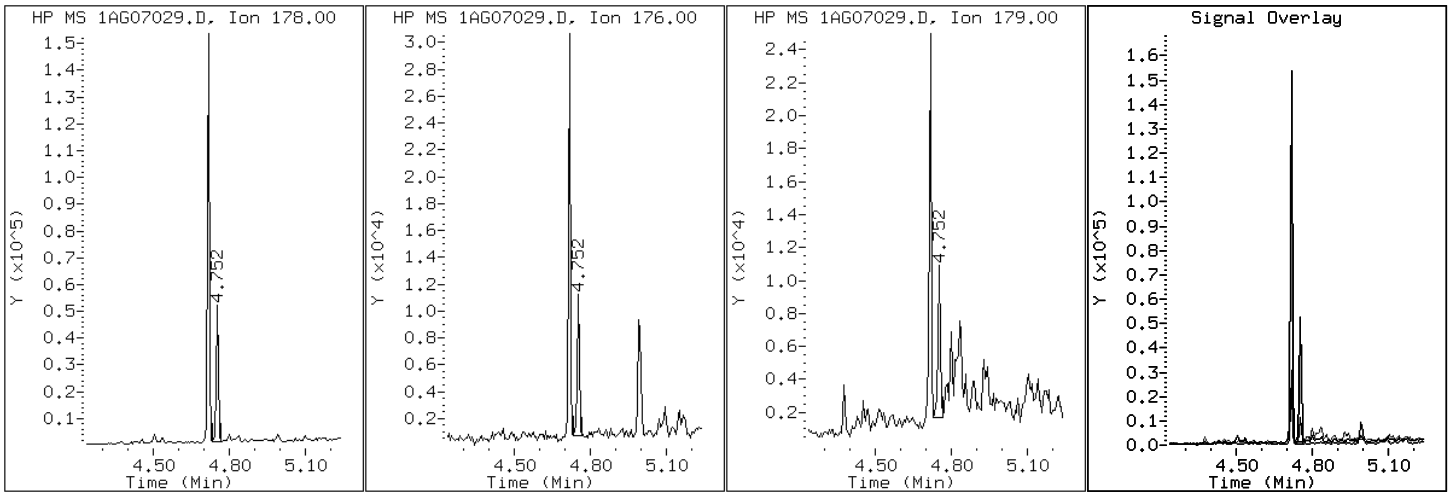
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

13 Anthracene



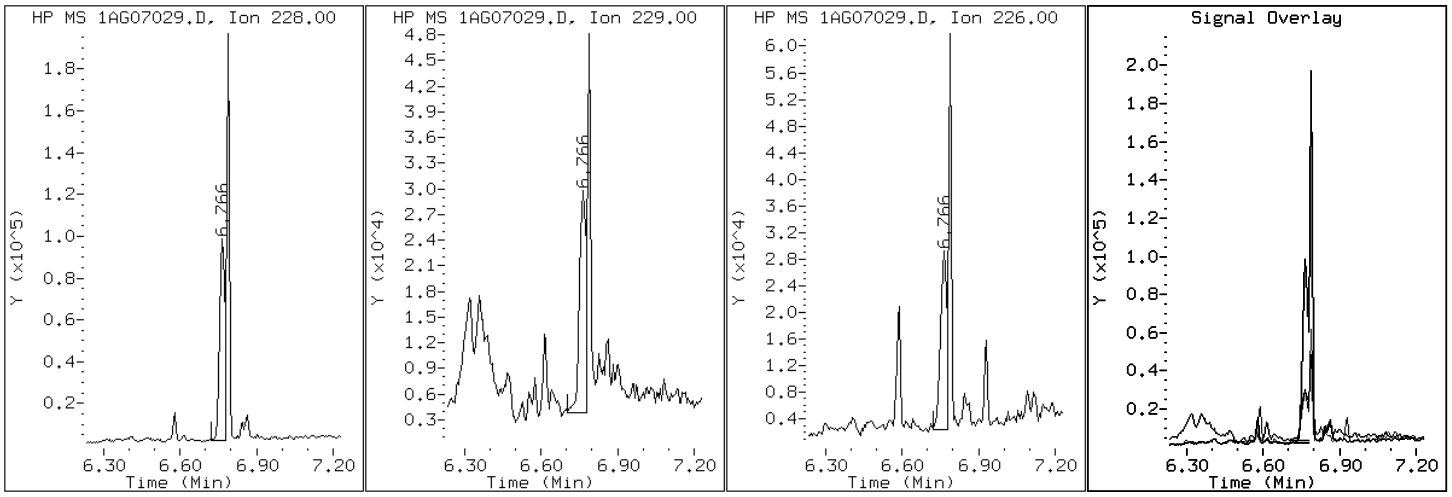
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

18 Benzo(a)anthracene



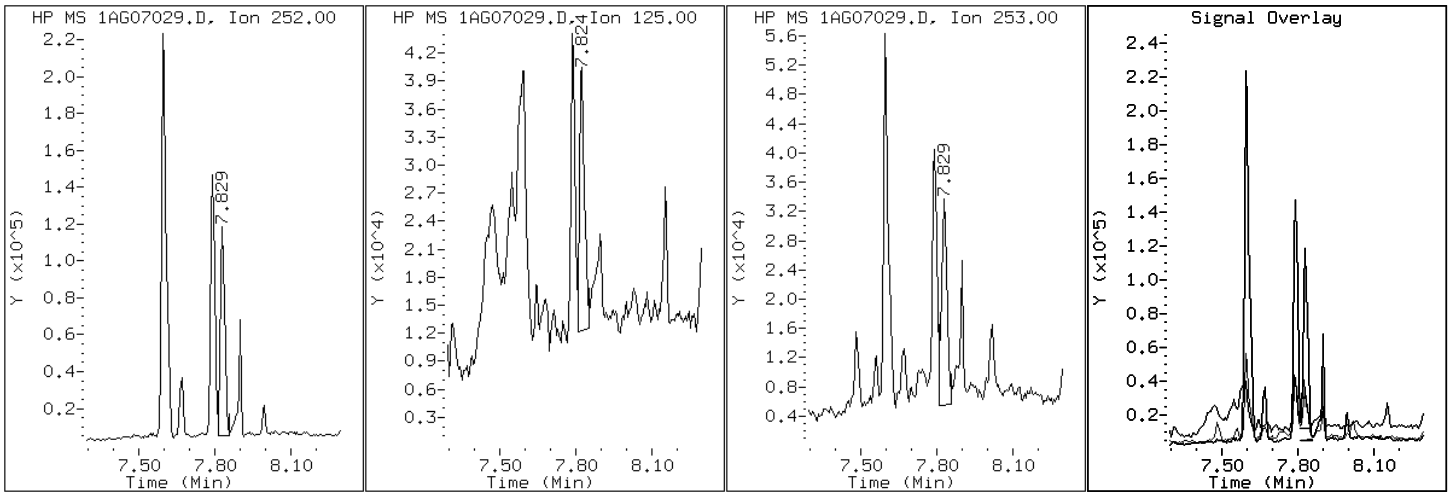
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

23 Benzo(a)pyrene



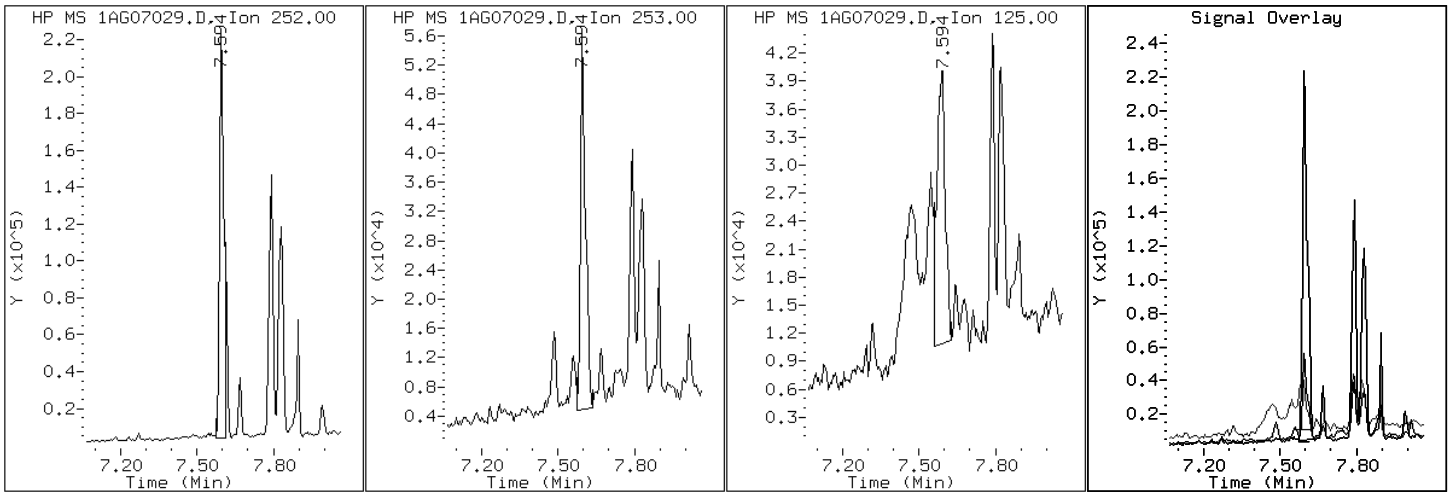
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

21 Benzo(b)fluoranthene



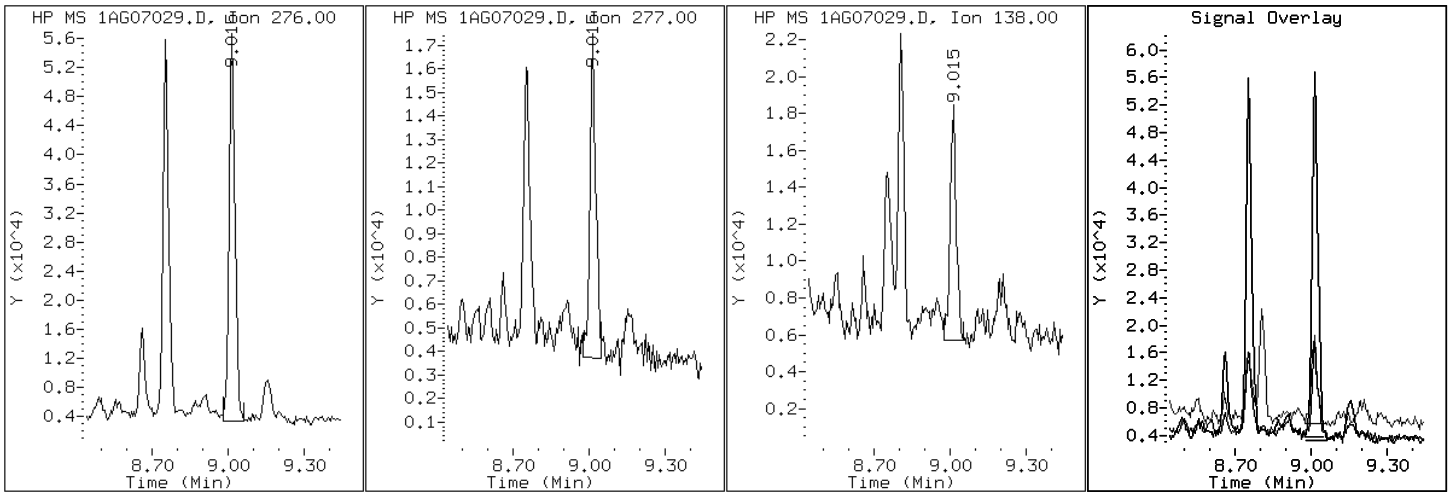
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

27 Benzo(g,h,i)perylene



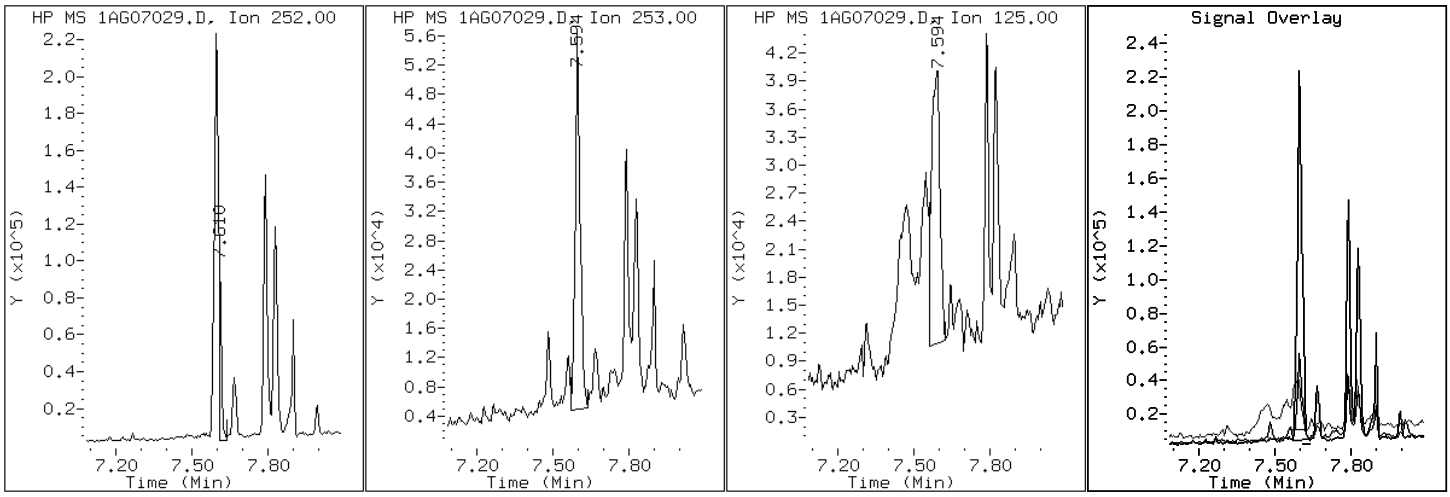
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

22 Benzo(k)fluoranthene



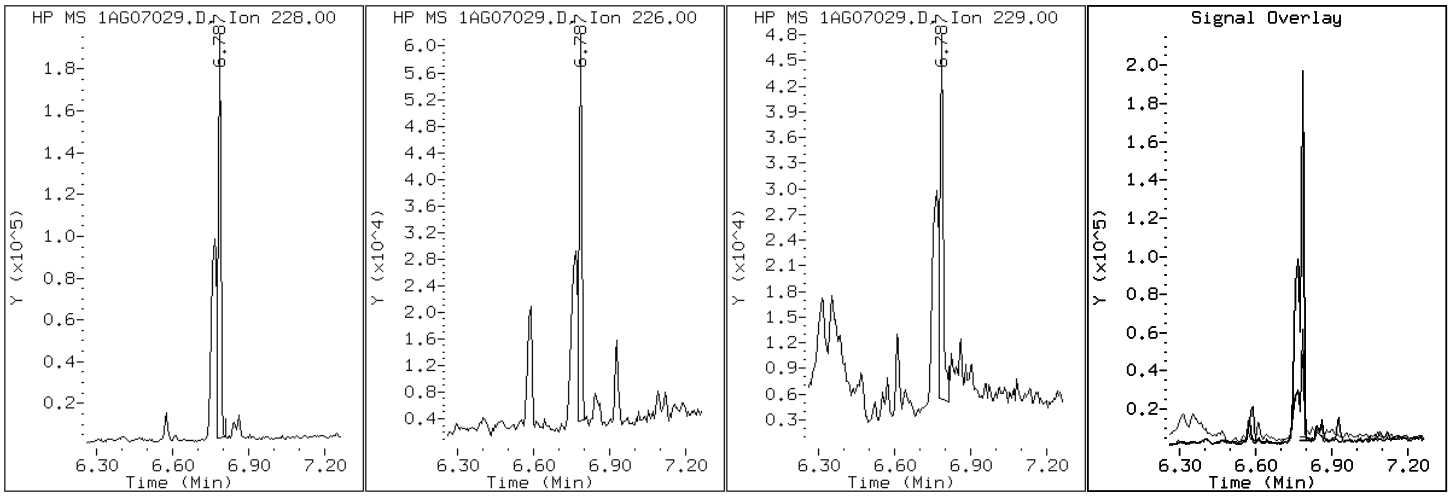
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

20 Chrysene



Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

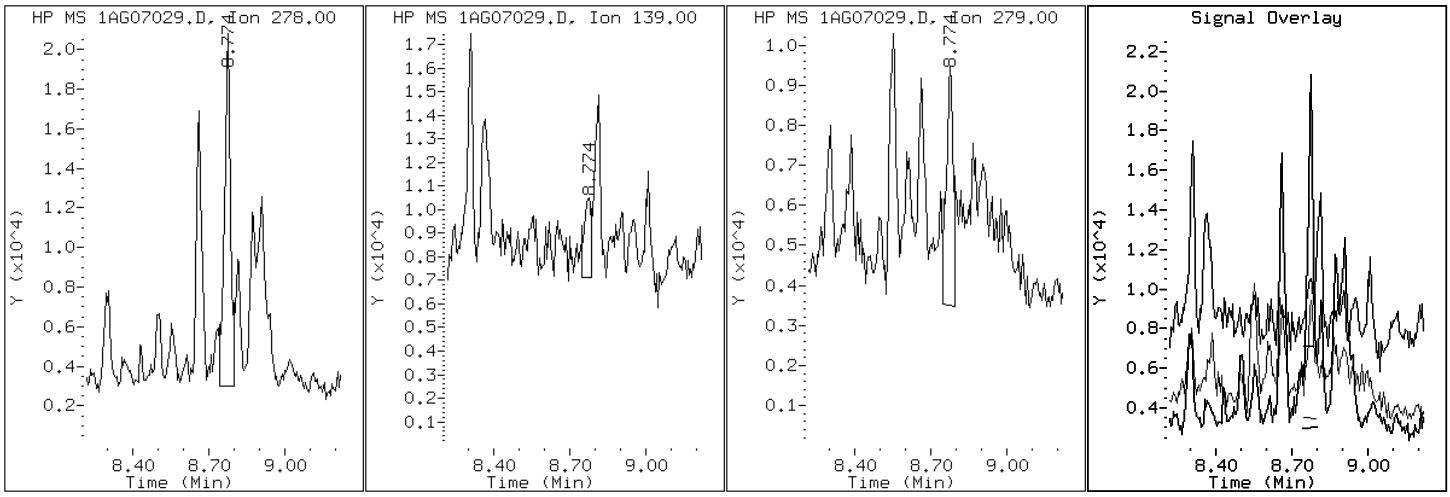
Client ID: CV1363V-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a

Operator: SCC

26 Dibenzo(a,h)anthracene



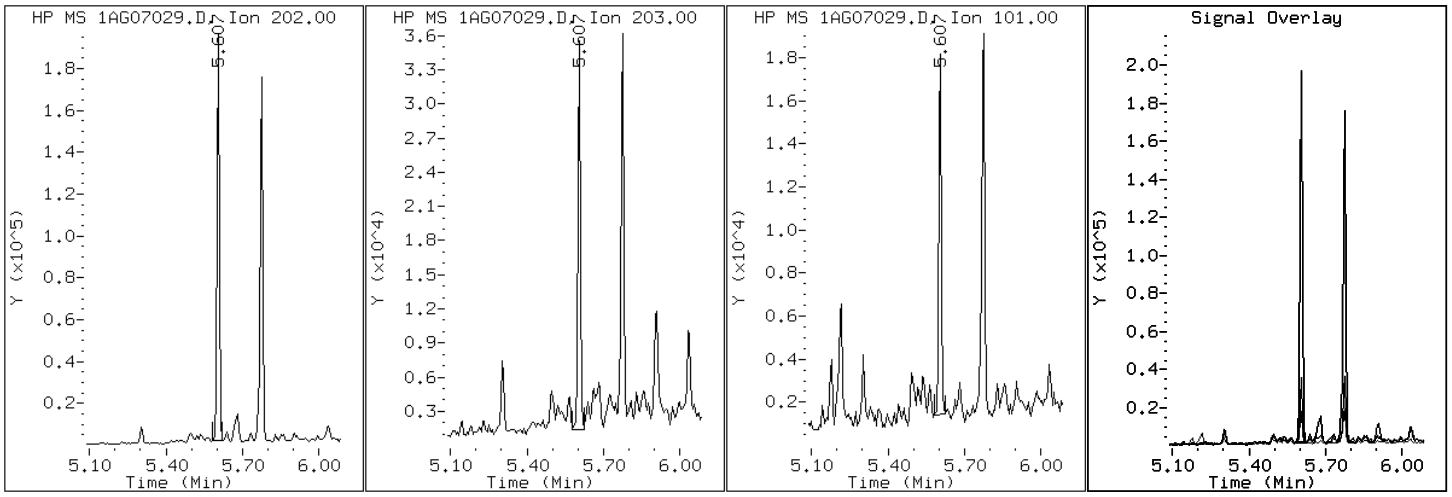
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

16 Fluoranthene



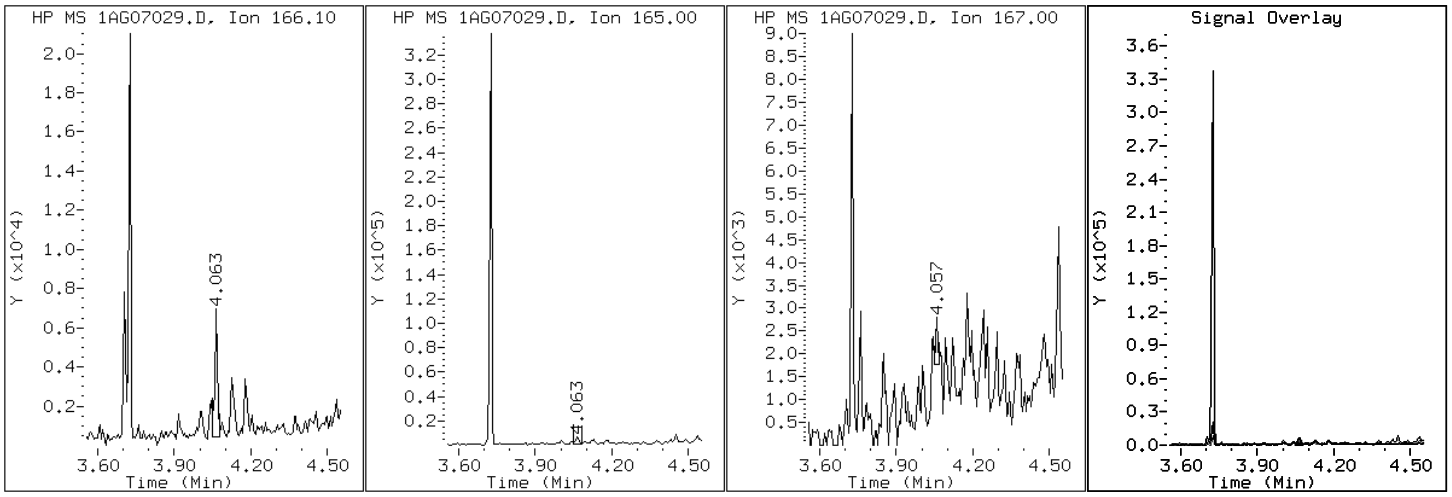
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

10 Fluorene



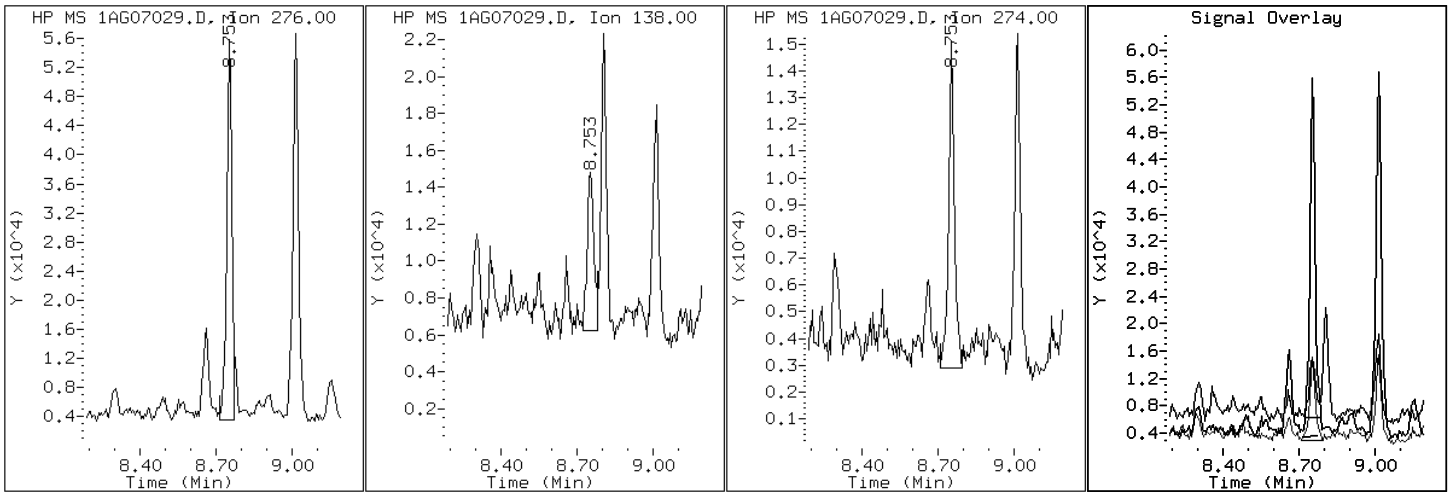
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

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



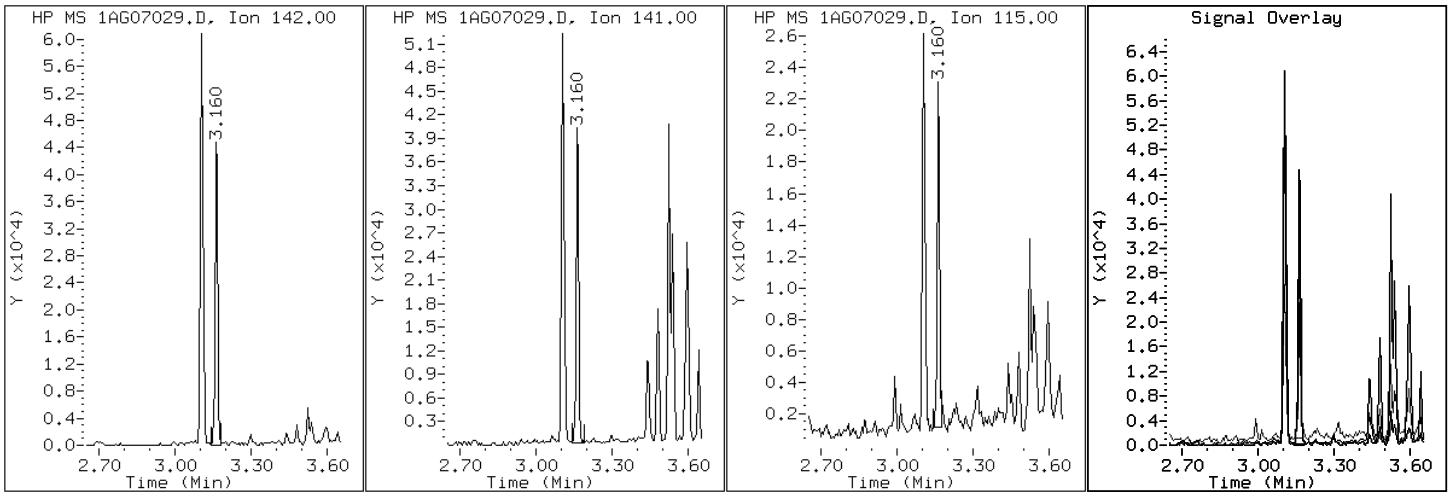
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

4 1-Methylnaphthalene



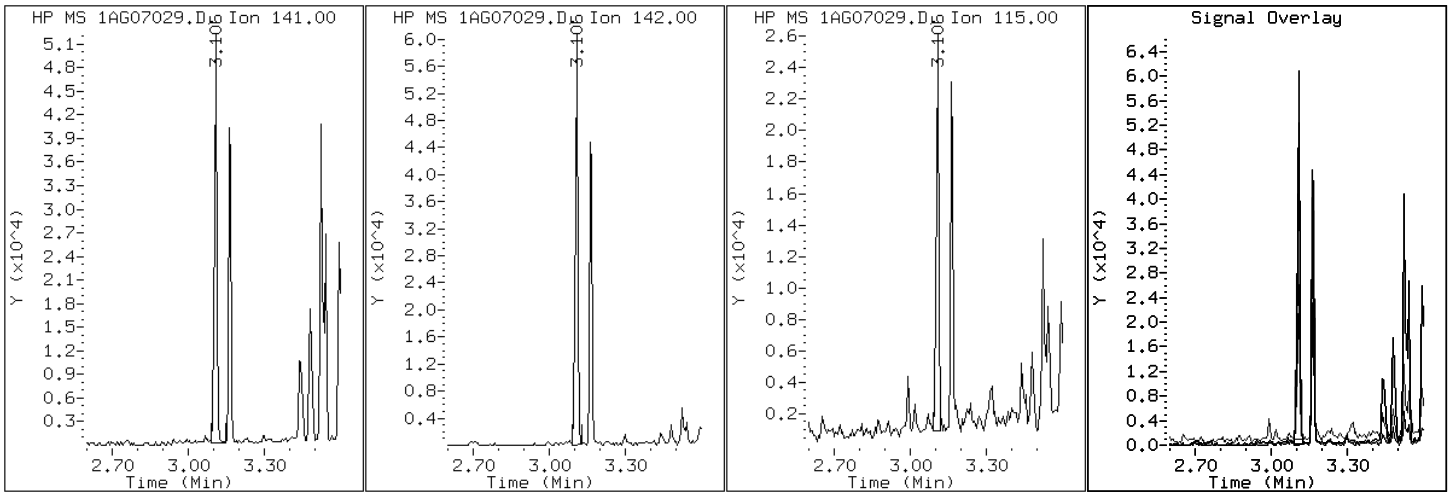
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

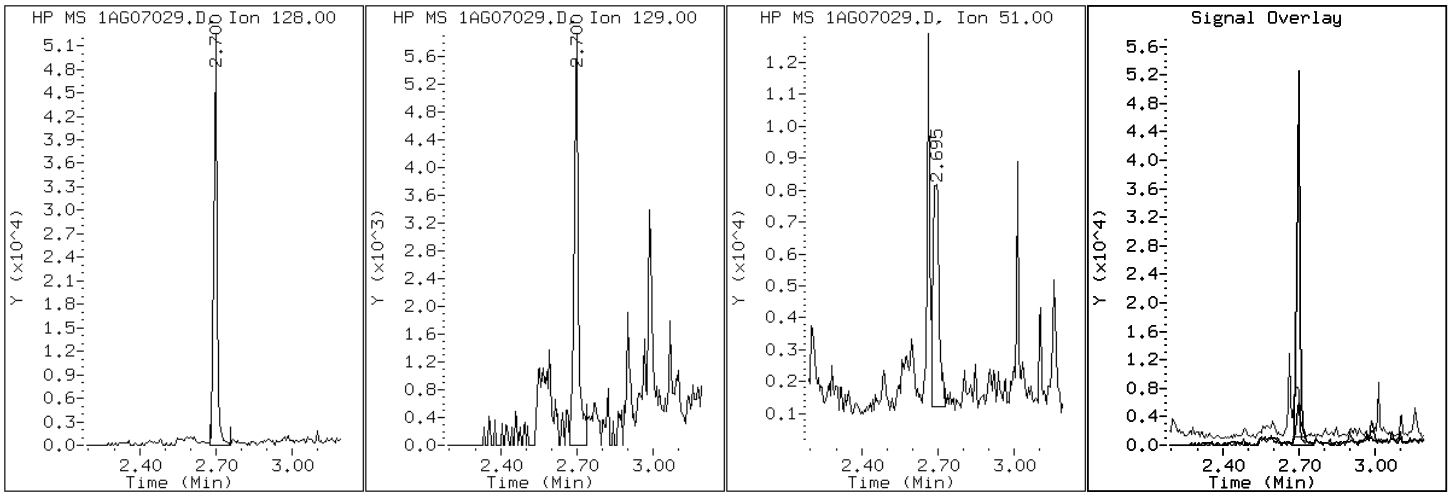
Client ID: CV1363V-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a

Operator: SCC

2 Naphthalene



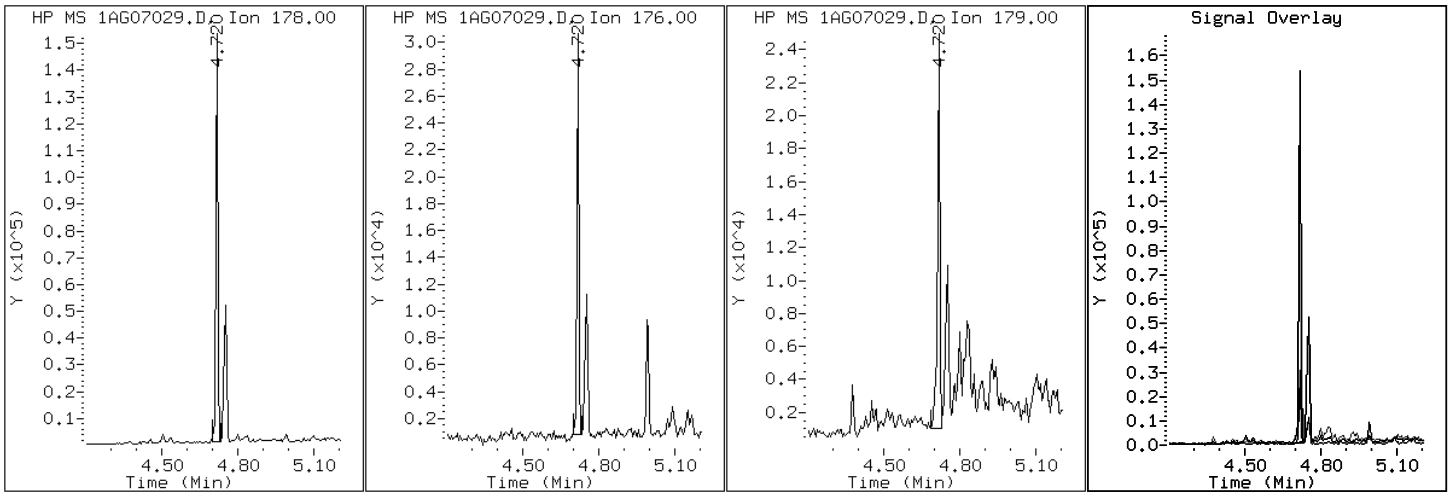
Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

Client ID: CV1363V-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a Operator: SCC

12 Phenanthrene



Data File: 1AG07029.D

Date: 07-JUL-2013 20:39

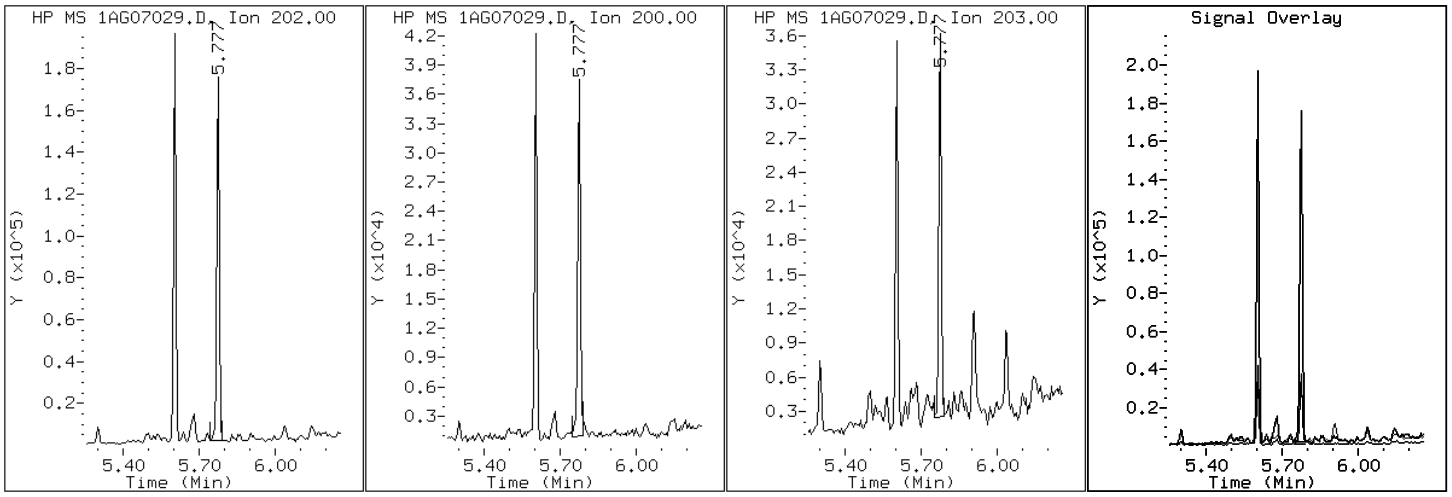
Client ID: CV1363V-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-30-a

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07029.D
Inj. Date and Time: 07-JUL-2013 20:39
Instrument ID: BSMA5973.i
Client ID: CV1363V-CSD
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

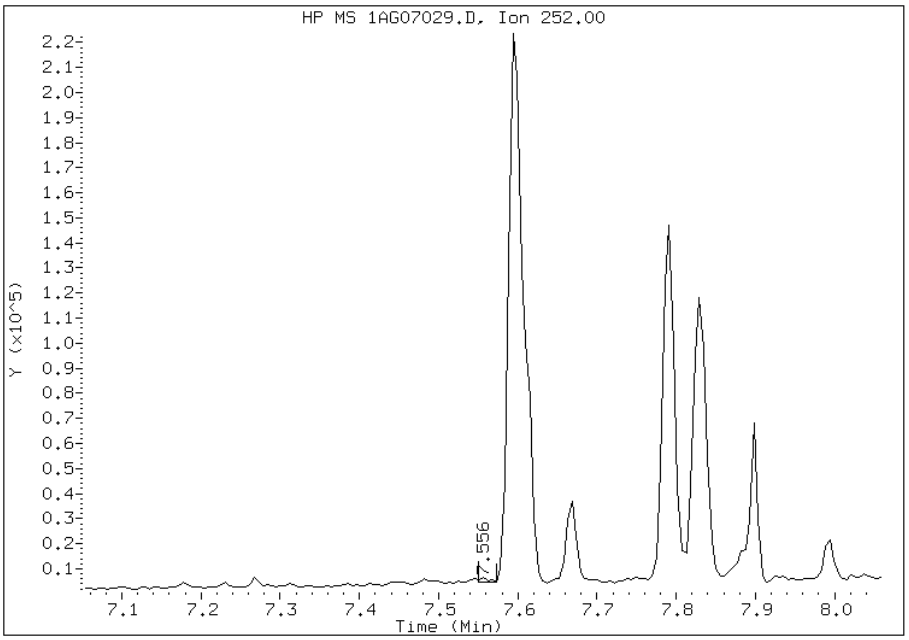
Processing Integration Results

RT: 7.56

Response: 1202

Amount: 0

Conc: 1



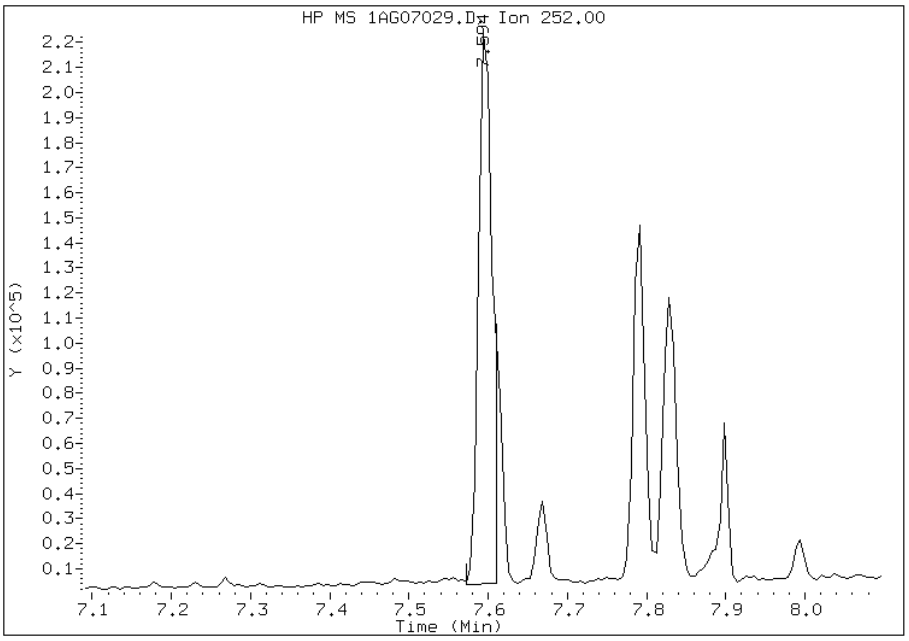
Manual Integration Results

RT: 7.59

Response: 263126

Amount: 2

Conc: 181



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:14
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07029.D
Inj. Date and Time: 07-JUL-2013 20:39
Instrument ID: BSMA5973.i
Client ID: CV1363V-CSD
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

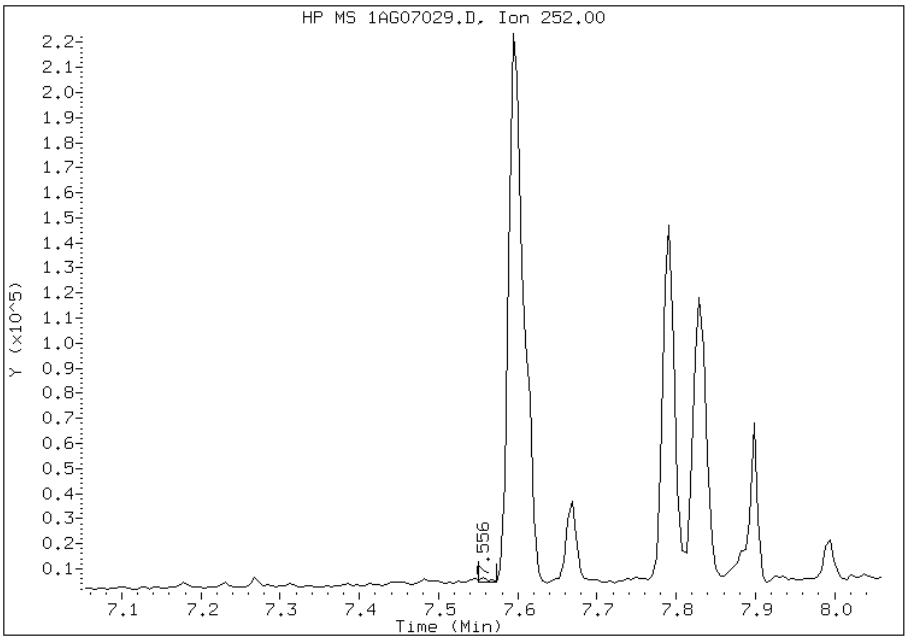
Processing Integration Results

RT: 7.56

Response: 1202

Amount: 0

Conc: 1



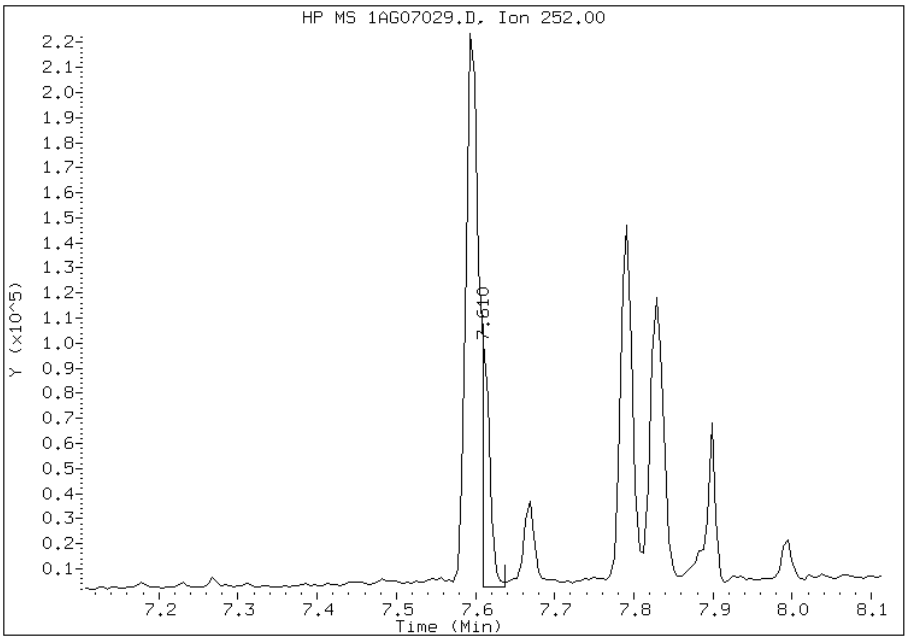
Manual Integration Results

RT: 7.61

Response: 67905

Amount: 1

Conc: 45



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07029.D
Inj. Date and Time: 07-JUL-2013 20:39
Instrument ID: BSMA5973.i
Client ID: CV1363V-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

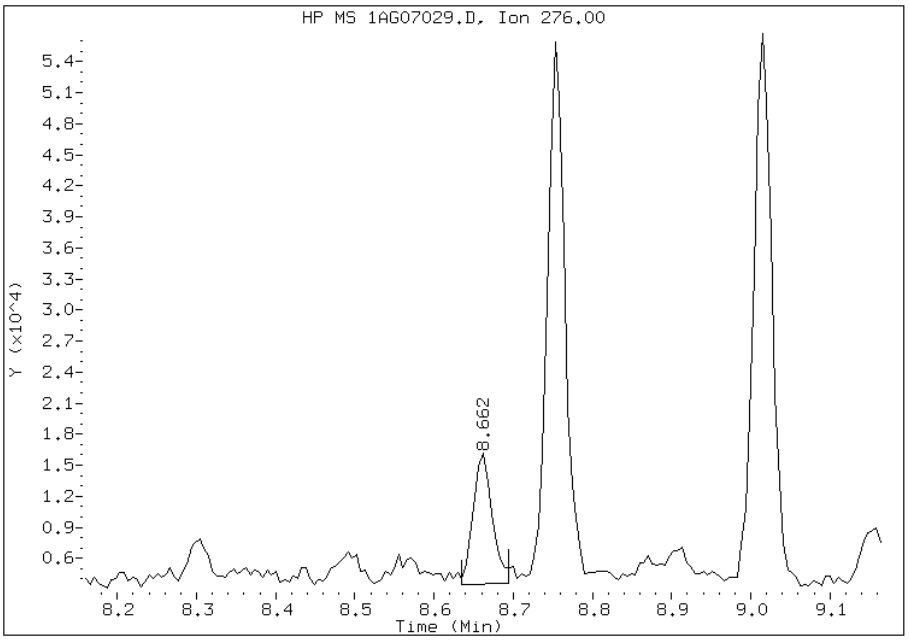
Processing Integration Results

RT: 8.66

Response: 21020

Amount: 0

Conc: 18



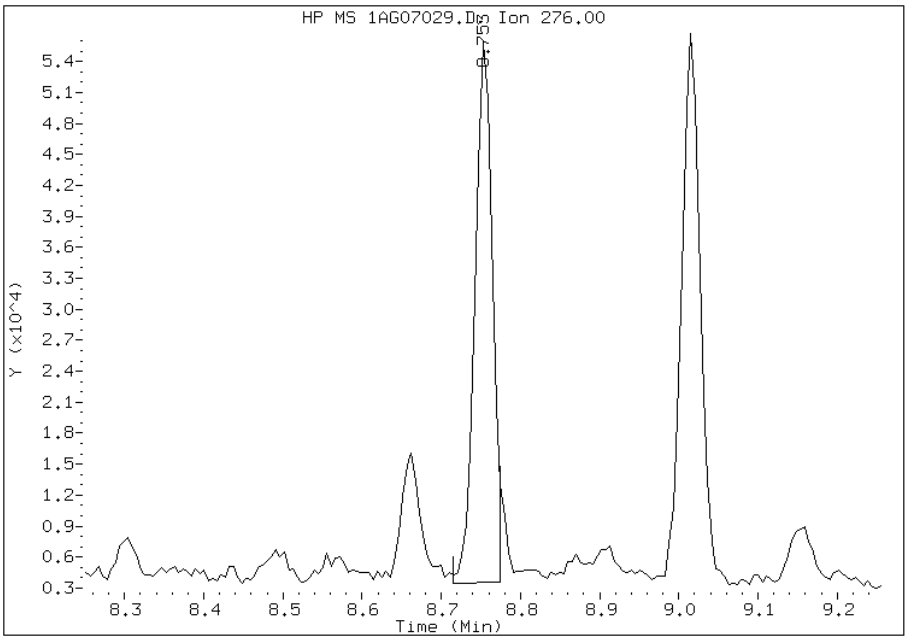
Manual Integration Results

RT: 8.75

Response: 80073

Amount: 1

Conc: 68



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: 062513-RB-Shovel | Lab Sample ID: 680-91719-35

Matrix: Water | Lab File ID: 1AG02021.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 10:30

Extract. Method: 3520C | Date Extracted: 06/27/2013 09:53

Sample wt/vol: 1050(mL) | Date Analyzed: 07/02/2013 16:15

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.: 139030 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1.9	U	1.9	0.48
208-96-8	Acenaphthylene	0.95	U	0.95	0.24
120-12-7	Anthracene	0.19	U	0.19	0.072
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.048
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.054
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.048
191-24-2	Benzo[g,h,i]perylene	0.48	U	0.48	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.054
218-01-9	Chrysene	0.19	U	0.19	0.066
53-70-3	Dibenz(a,h)anthracene	0.19	U	0.19	0.048
206-44-0	Fluoranthene	0.48	U	0.48	0.051
86-73-7	Fluorene	1.9	U	1.9	0.48
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.048
90-12-0	1-Methylnaphthalene	1.9	U	1.9	0.48
91-57-6	2-Methylnaphthalene	1.9	U	1.9	0.48
91-20-3	Naphthalene	1.9	U	1.9	0.24
85-01-8	Phenanthrene	0.48	U	0.48	0.19
129-00-0	Pyrene	0.48	U	0.48	0.085

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	44		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02021.D
Lab Smp Id: 680-91719-B-35-A Client Smp ID: 062513-RB-Shovel
Inj Date : 02-JUL-2013 16:15
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-b-35-a
Misc Info : 680-91719-B-35-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.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/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	1050.000	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	2.687	2.683	(1.000)	3049429	40.0000	
* 7 Acenaphthene-d10	164	3.724	3.719	(1.000)	1719273	40.0000	
* 11 Phenanthrene-d10	188	4.696	4.697	(1.000)	2578658	40.0000	
$ 15 o-Terphenyl	230	4.995	4.996	(1.064)	236068	4.40029	4.1907
* 19 Chrysene-d12	240	6.747	6.748	(1.000)	2530834	40.0000	
* 24 Perylene-d12	264	7.848	7.849	(1.000)	2737366	40.0000	

Data File: 1AG02021.D

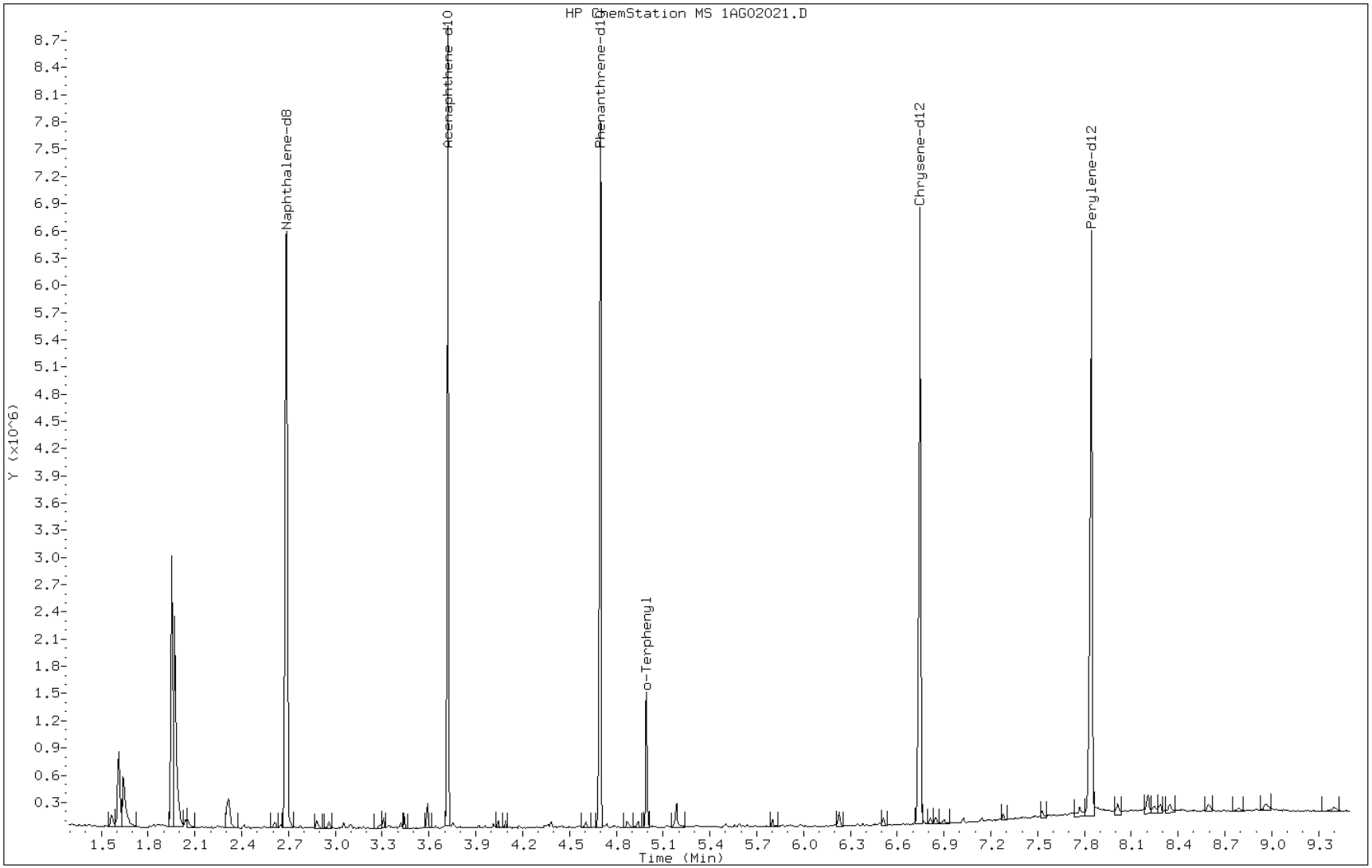
Date: 02-JUL-2013 16:15

Client ID: 062513-RB-Shovel

Instrument: BSMA5973.i

Sample Info: 680-91719-b-35-a

Operator: SCC



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-2 Analy Batch No.: 138314

SDG No.: 68091719-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2013 14:27 Calibration End Date: 06/11/2013 16:13 Calibration ID: 3027

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-138314/5	1AF11005.D
Level 2	IC 660-138314/6	1AF11006.D
Level 3	IC 660-138314/7	1AF11007.D
Level 4	IC 660-138314/8	1AF11008.D
Level 5	ICIS 660-138314/4	1AF11004.D
Level 6	IC 660-138314/9	1AF11009.D
Level 7	IC 660-138314/10	1AF11010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.1723 0.9210	1.1834 0.8257	1.0868	1.1159	1.0058	Ave		1.0444			0.0000	12.8		15.0			
2-Methylnaphthalene	0.7100 0.5360	0.7264 0.4636	0.6883	0.6680	0.5866	Qua	0.0030	1.2202	1.6043		0.0000				1.0000		0.9900
1-Methylnaphthalene	0.8750 0.6060	0.8967 0.5224	0.8050	0.7752	0.6764	Qua	0.0025	1.0201	1.3639		0.0000				1.0000		0.9900
Acenaphthylene	2.5863 1.9303	2.6792 1.6379	2.6072	2.5065	2.1788	Qua	0.0058	0.2899	0.1549		0.0000				0.9999		0.9900
Acenaphthene	1.4257 1.0065	1.4261 0.8502	1.3410	1.2929	1.1280	Qua	0.0062	0.5584	0.5735		0.0000				0.9999		0.9900
Fluorene	1.8788 1.3407	1.8596 1.1438	1.7626	1.7070	1.5402	Qua	0.0074	0.4159	0.3164		0.0000				0.9996		0.9900
Phenanthrene	1.5050 1.0192	1.4651 0.8770	1.3188	1.3007	1.1440	Qua	0.0042	0.5959	0.4927		0.0000				0.9999		0.9900
Anthracene	1.5014 1.1094	1.5492 0.9489	1.4278	1.3795	1.2291	Qua	0.0051	0.5554	0.4148		0.0000				0.9999		0.9900
Fluoranthene	1.7294 1.2719	1.7067 1.0999	1.5703	1.5738	1.4196	Qua	0.0058	0.4968	0.2963		0.0000				0.9998		0.9900
Pyrene	1.6875 1.4959	1.7275 1.4149	1.6763	1.6934	1.5931	Ave		1.6127			0.0000	7.3		15.0			
Benzo[a]anthracene	1.9974 1.3340	1.4609 1.3327	1.3678	1.3838	1.3722	Lin2	-0.002	1.3455							0.9998		
Chrysene	1.5267 1.1771	1.4577 1.1394	1.2674	1.3291	1.2739	Ave		1.3102			0.0000	10.8		15.0			
Benzo[b]fluoranthene	1.3149 1.1733	1.3766 1.1330	1.3351	1.2850	1.2442	Ave		1.2660			0.0000	7.0		15.0			
Benzo[k]fluoranthene	1.6306 1.1914	1.4354 1.0261	1.3735	1.4401	1.2286	Qua	0.0046	0.6005	0.2855		0.0000				0.9993		0.9900

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.: 680-91719-2 Analy Batch No.: 138314

SDG No.: 68091719-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2013 14:27 Calibration End Date: 06/11/2013 16:13 Calibration ID: 3027

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[a]pyrene	1.2149 1.1560	1.1935 1.0607	1.2091	1.2505	1.1977	Ave		1.1832			0.0000	5.1		15.0			
Indeno[1,2,3-cd]pyrene	1.0050 1.1095	0.9640 1.0873	1.0294	1.0666	1.1316	Ave		1.0562			0.0000	5.7		15.0			
Dibenz(a,h)anthracene	1.0756 1.0455	1.0157 1.0022	1.0409	1.0872	1.0591	Ave		1.0466			0.0000	2.9		15.0			
Benzo[g,h,i]perylene	1.1430 1.1346	1.1101 1.0748	1.1187	1.1597	1.1320	Ave		1.1247			0.0000	2.4		15.0			
o-Terphenyl	0.8975 0.5846	0.8587 0.5072	0.7857	0.7524	0.6660	Qua	0.0026	1.0388	1.4686		0.0000				0.9998		0.9900

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.: 680-91719-2 Analy Batch No.: 138314

SDG No.: 68091719-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2013 14:27 Calibration End Date: 06/11/2013 16:13 Calibration ID: 3027

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-138314/5	1AF11005.D
Level 2	IC 660-138314/6	1AF11006.D
Level 3	IC 660-138314/7	1AF11007.D
Level 4	IC 660-138314/8	1AF11008.D
Level 5	ICIS 660-138314/4	1AF11004.D
Level 6	IC 660-138314/9	1AF11009.D
Level 7	IC 660-138314/10	1AF11010.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	31949 3326970	154451 4860995	706802	1404475	2607937	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	19350 1936226	94807 2729593	447660	840786	1521014	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	23847 2189227	117035 3075350	523506	975633	1753853	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	34415 3520715	172449 5048430	821696	1554021	2791549	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	18971 1835869	91789 2620336	422621	801620	1445278	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	25001 2445422	119695 3525406	555508	1058377	1973361	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	31583 2957432	144297 4351333	658590	1257185	2372612	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Qua	31507 3219050	152583 4707873	713000	1333306	2549176	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Qua	36293 3690687	168090 5456781	784142	1521124	2944221	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	35753 3739097	167082 5558621	809800	1542426	2968654	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin2	42319 3334506	141295 5235790	660759	1260429	2557000	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	32346 2942262	140988 4476128	612269	1210601	2373882	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	31821 3452867	146879 5506891	710467	1309504	2718494	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Qua	39460 3506008	153153 4987091	730891	1467570	2684509	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Ave	29401 3401826	127346 5155395	643416	1274296	2616932	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.: 680-91719-2 Analy Batch No.: 138314

SDG No.: 68091719-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2013 14:27 Calibration End Date: 06/11/2013 16:13 Calibration ID: 3027

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
Indeno[1,2,3-cd]pyrene	PRY	Ave	24321 3265173	102860 5284832	547777	1086943	2472525	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	26029 3076782	108380 4870973	553931	1107880	2314216	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	27661 3338836	118447 5223804	595327	1181829	2473464	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	18834 1696327	84574 2516547	392373	727251	1381274	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11004.D
Lab Smp Id: ICIS-1559459
Inj Date : 11-JUN-2013 14:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.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	2.703	2.703	(1.000)	5185951	40.0000	
* 7 Acenaphthene-d10	164	3.740	3.740	(1.000)	2562463	40.0000	
* 11 Phenanthrene-d10	188	4.712	4.712	(1.000)	4147924	40.0000	
$ 15 o-Terphenyl	230	5.017	5.017	(1.065)	1381274	20.0000	20.4551
* 19 Chrysene-d12	240	6.763	6.763	(1.000)	3726885	40.0000	
* 24 Perylene-d12	264	7.859	7.859	(1.000)	4369974	40.0000	
2 Naphthalene	128	2.714	2.714	(1.004)	2607937	20.0000	19.2604
3 2-Methylnaphthalene	141	3.120	3.120	(1.154)	1521014	20.0000	19.9549
4 1-Methylnaphthalene	142	3.179	3.179	(1.176)	1753853	20.0000	20.1401
6 Acenaphthylene	152	3.649	3.649	(0.976)	2791549	20.0000	20.2196
8 Acenaphthene	154	3.756	3.756	(1.004)	1445278	20.0000	20.1433
10 Fluorene	166	4.082	4.082	(1.091)	1973361	20.0000	20.6109
12 Phenanthrene	178	4.728	4.728	(1.003)	2372612	20.0000	20.2513
13 Anthracene	178	4.766	4.766	(1.011)	2549176	20.0000	20.1246
16 Fluoranthene	202	5.610	5.610	(1.190)	2944221	20.0000	20.3060
17 Pyrene	202	5.775	5.775	(0.854)	2968654	20.0000	19.7574
18 Benzo(a)anthracene	228	6.747	6.747	(0.998)	2557000	20.0000	20.3002
20 Chrysene	228	6.780	6.780	(1.002)	2373882	20.0000	19.4464
21 Benzo(b)fluoranthene	252	7.576	7.576	(0.964)	2718494	20.0000	19.6549
22 Benzo(k)fluoranthene	252	7.597	7.597	(0.967)	2684509	20.0000	19.2509
23 Benzo(a)pyrene	252	7.811	7.811	(0.994)	2616932	20.0000	20.2451
25 Indeno(1,2,3-cd)pyrene	276	8.703	8.703	(1.107)	2472525	20.0000	21.4275
26 Dibenzo(a,h)anthracene	278	8.735	8.735	(1.111)	2314216	20.0000	20.2395
27 Benzo(g,h,i)perylene	276	8.954	8.954	(1.139)	2473464	20.0000	20.1302

Data File: 1AF11004.D

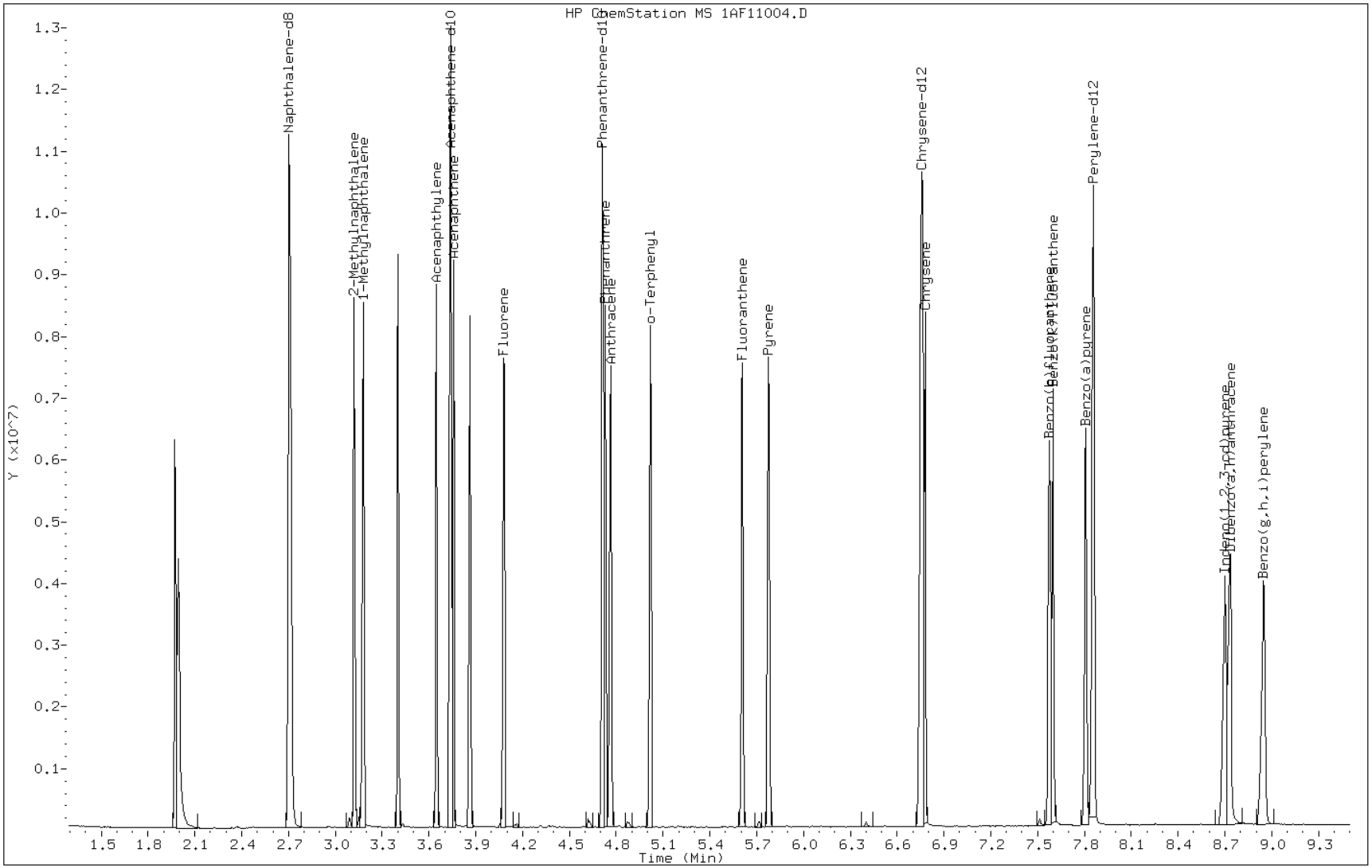
Date: 11-JUN-2013 14:27

Client ID:

Instrument: BSMA5973.i

Sample Info: ICIS-1559459

Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11005.D
Lab Smp Id: IC-1559454
Inj Date : 11-JUN-2013 14:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559454
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 14:27 Cal File: 1AF11004.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	2.701	2.703	(1.000)	5450849	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.740	(1.000)	2661355	40.0000	
* 11 Phenanthrene-d10	188	4.715	4.712	(1.000)	4197057	40.0000	
$ 15 o-Terphenyl	230	5.019	5.017	(1.065)	18834	0.20000	0.2916
* 19 Chrysene-d12	240	6.761	6.763	(1.000)	4237389	40.0000	
* 24 Perylene-d12	264	7.872	7.859	(1.000)	4839999	40.0000	
2 Naphthalene	128	2.711	2.714	(1.004)	31949	0.20000	0.2244
3 2-Methylnaphthalene	141	3.123	3.120	(1.156)	19350	0.20000	0.2941
4 1-Methylnaphthalene	142	3.176	3.179	(1.176)	23847	0.20000	0.2803
6 Acenaphthylene	152	3.646	3.649	(0.976)	34415	0.20000	0.3839
8 Acenaphthene	154	3.753	3.756	(1.004)	18971	0.20000	0.4093
10 Fluorene	166	4.079	4.082	(1.091)	25001	0.20000	0.4524
12 Phenanthrene	178	4.725	4.728	(1.002)	31583	0.20000	0.3502
13 Anthracene	178	4.763	4.766	(1.010)	31507	0.20000	0.3722
16 Fluoranthene	202	5.607	5.610	(1.189)	36293	0.20000	0.4030
17 Pyrene	202	5.773	5.775	(0.854)	35753	0.20000	0.2092
18 Benzo(a)anthracene	228	6.750	6.747	(0.998)	42319	0.20000	0.2003
20 Chrysene	228	6.777	6.780	(1.002)	32346	0.20000	0.2330
21 Benzo(b)fluoranthene	252	7.573	7.576	(0.962)	31821	0.20000	0.2077(H)
22 Benzo(k)fluoranthene	252	7.594	7.597	(0.965)	39460	0.20000	0.3812
23 Benzo(a)pyrene	252	7.808	7.811	(0.992)	29401	0.20000	0.2053
25 Indeno(1,2,3-cd)pyrene	276	8.700	8.703	(1.105)	24321	0.20000	0.1903(H)
26 Dibenzo(a,h)anthracene	278	8.732	8.735	(1.109)	26029	0.20000	0.2055(M)
27 Benzo(g,h,i)perylene	276	8.946	8.954	(1.136)	27661	0.20000	0.2032

QC Flag Legend

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

Data File: 1AF11005.D

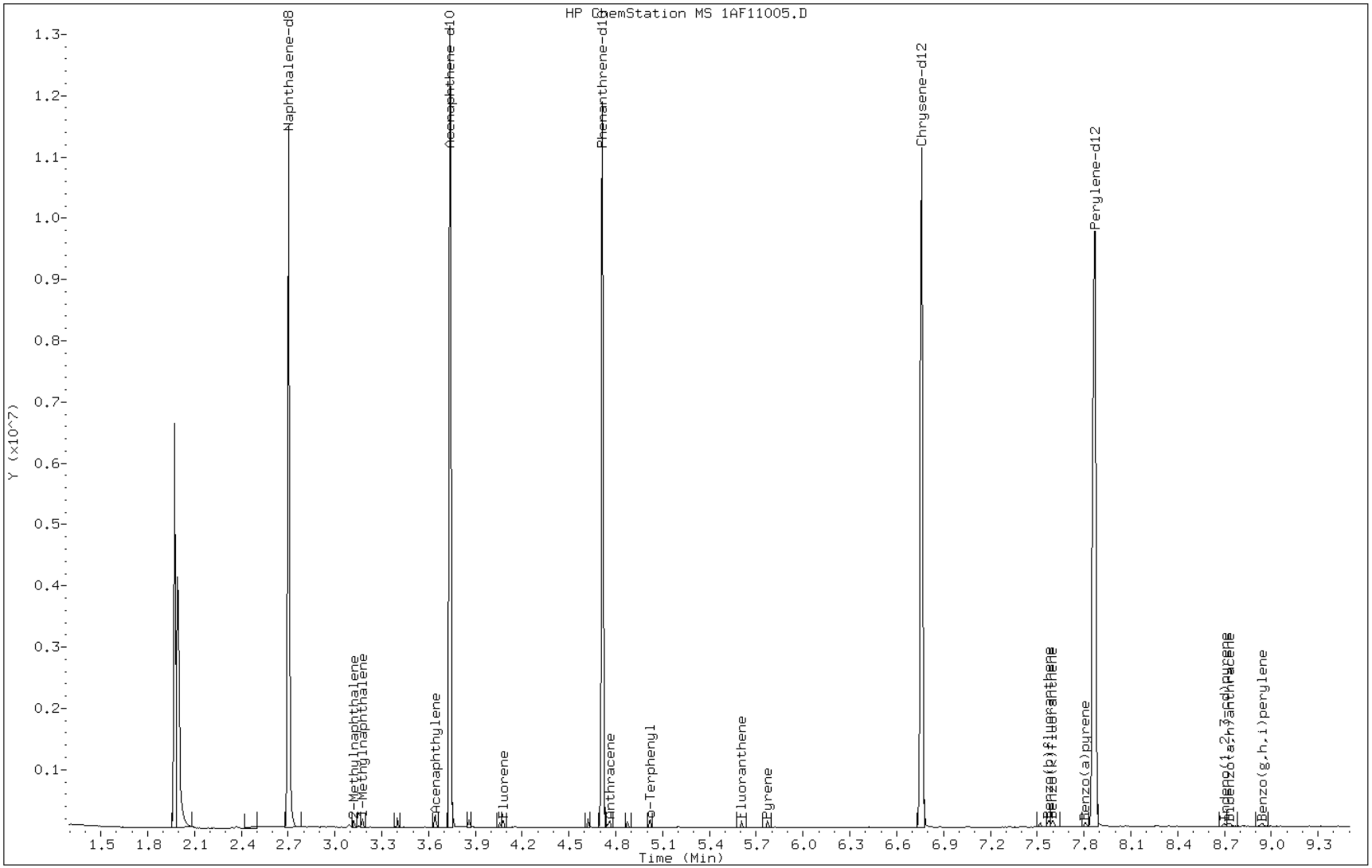
Date: 11-JUN-2013 14:58

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559454

Operator: SCC



Manual Integration Report

Data File: 1AF11005.D
Inj. Date and Time: 11-JUN-2013 14:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/12/2013

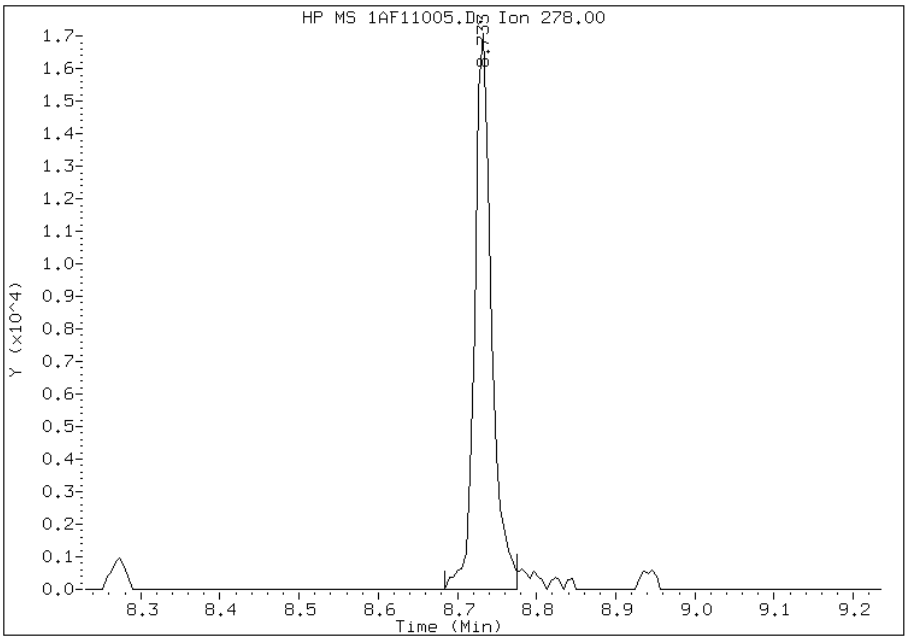
Processing Integration Results

RT: 8.73

Response: 25154

Amount: 1

Conc: 1



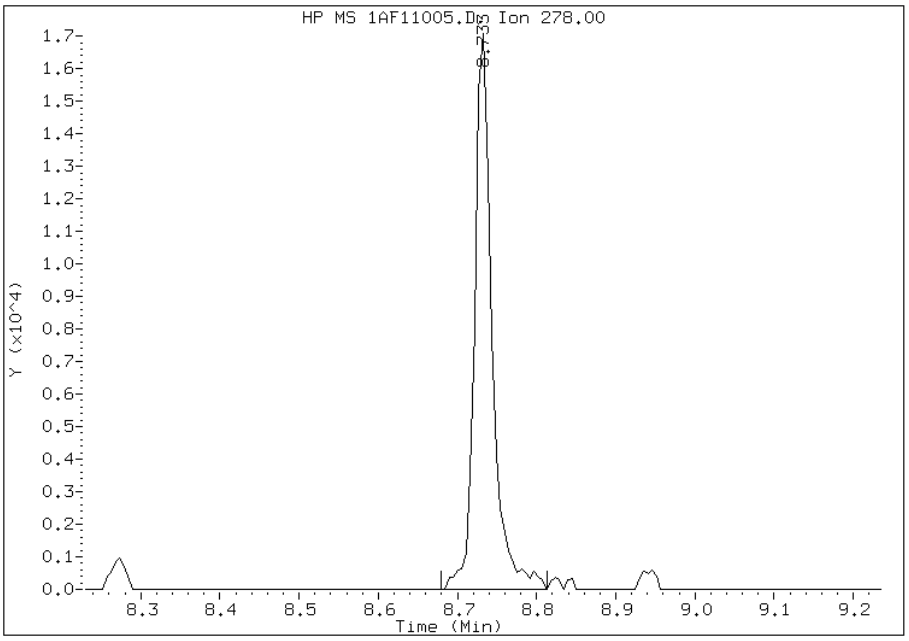
Manual Integration Results

RT: 8.73

Response: 26029

Amount: 0

Conc: 0



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11006.D
Lab Smp Id: IC-1559455
Inj Date : 11-JUN-2013 15:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559455
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 14:58 Cal File: 1AF11005.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

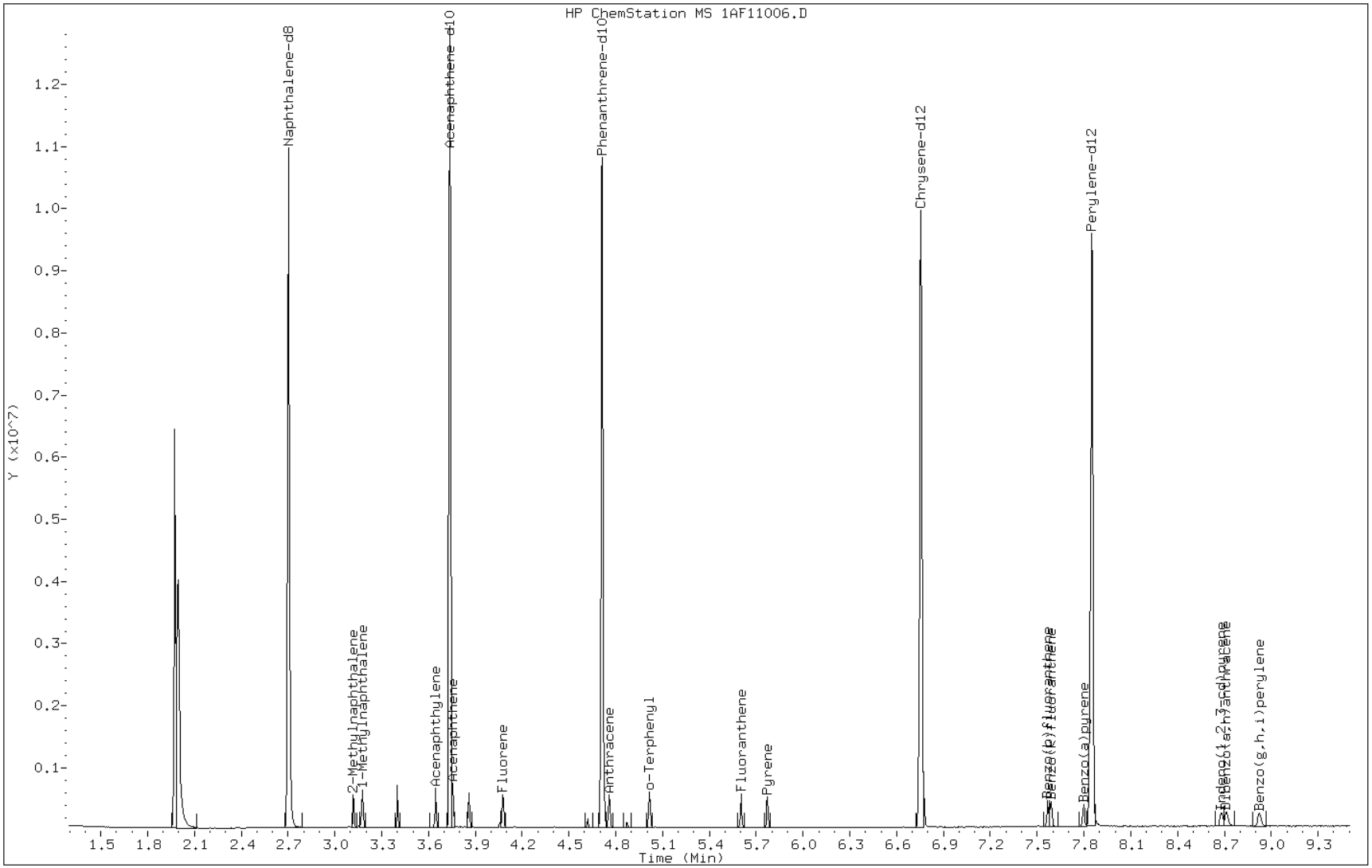
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.701	2.703	(1.000)	5220699	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.740	(1.000)	2574634	40.0000	
* 11 Phenanthrene-d10	188	4.715	4.712	(1.000)	3939619	40.0000	
$ 15 o-Terphenyl	230	5.014	5.017	(1.063)	84574	1.00000	1.0230
* 19 Chrysene-d12	240	6.756	6.763	(1.000)	3868739	40.0000	
* 24 Perylene-d12	264	7.851	7.859	(1.000)	4267983	40.0000	
2 Naphthalene	128	2.717	2.714	(1.006)	154451	1.00000	1.1330
3 2-Methylnaphthalene	141	3.118	3.120	(1.154)	94807	1.00000	1.0275
4 1-Methylnaphthalene	142	3.176	3.179	(1.176)	117035	1.00000	1.0429
6 Acenaphthylene	152	3.646	3.649	(0.976)	172449	1.00000	1.0375
8 Acenaphthene	154	3.753	3.756	(1.004)	91789	1.00000	1.0744
10 Fluorene	166	4.074	4.082	(1.090)	119695	1.00000	1.0957
12 Phenanthrene	178	4.726	4.728	(1.002)	144297	1.00000	1.0692
13 Anthracene	178	4.758	4.766	(1.009)	152583	1.00000	1.0898
16 Fluoranthene	202	5.602	5.610	(1.188)	168090	1.00000	1.0996
17 Pyrene	202	5.773	5.775	(0.855)	167082	1.00000	1.0712
18 Benzo(a)anthracene	228	6.745	6.747	(0.998)	141295	1.00000	0.9892
20 Chrysene	228	6.772	6.780	(1.002)	140988	1.00000	1.1126
21 Benzo(b)fluoranthene	252	7.568	7.576	(0.964)	146879	1.00000	1.0873
22 Benzo(k)fluoranthene	252	7.589	7.597	(0.967)	153153	1.00000	1.0613
23 Benzo(a)pyrene	252	7.797	7.811	(0.993)	127346	1.00000	1.0087
25 Indeno(1,2,3-cd)pyrene	276	8.684	8.703	(1.106)	102860	1.00000	0.9127
26 Dibenzo(a,h)anthracene	278	8.716	8.735	(1.110)	108380	1.00000	0.9705
27 Benzo(g,h,i)perylene	276	8.924	8.954	(1.137)	118447	1.00000	0.9870

Data File: 1AF11006.D

Date: 11-JUN-2013 15:13

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559455 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11007.D
Lab Smp Id: IC-1559457
Inj Date : 11-JUN-2013 15:28
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559457
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 15:13 Cal File: 1AF11006.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

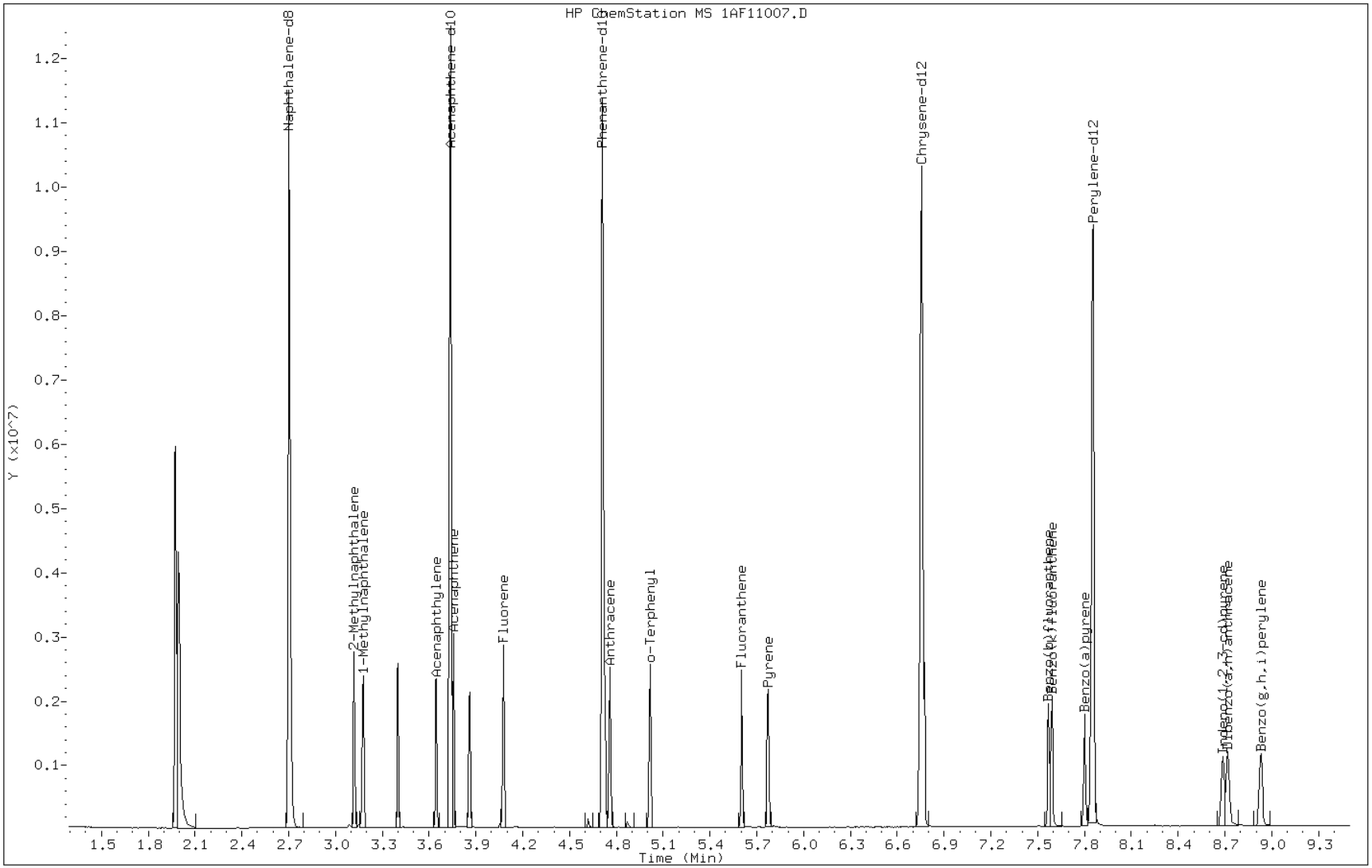
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.703	2.703	(1.000)	5202791	40.0000	
* 7 Acenaphthene-d10	164	3.739	3.740	(1.000)	2521292	40.0000	
* 11 Phenanthrene-d10	188	4.711	4.712	(1.000)	3994946	40.0000	
$ 15 o-Terphenyl	230	5.016	5.017	(1.065)	392373	5.00000	4.7518
* 19 Chrysene-d12	240	6.757	6.763	(1.000)	3864718	40.0000	
* 24 Perylene-d12	264	7.858	7.859	(1.000)	4257193	40.0000	
2 Naphthalene	128	2.713	2.714	(1.004)	706802	5.00000	5.2030
3 2-Methylnaphthalene	141	3.119	3.120	(1.154)	447660	5.00000	4.7945
4 1-Methylnaphthalene	142	3.178	3.179	(1.176)	523506	5.00000	4.7588
6 Acenaphthylene	152	3.648	3.649	(0.976)	821696	5.00000	4.6705
8 Acenaphthene	154	3.755	3.756	(1.004)	422621	5.00000	4.6372
10 Fluorene	166	4.076	4.082	(1.090)	555508	5.00000	4.5743
12 Phenanthrene	178	4.727	4.728	(1.003)	658590	5.00000	4.6347
13 Anthracene	178	4.759	4.766	(1.010)	713000	5.00000	4.6980
16 Fluoranthene	202	5.603	5.610	(1.189)	784142	5.00000	4.5872
17 Pyrene	202	5.774	5.775	(0.855)	809800	5.00000	5.1972
18 Benzo(a)anthracene	228	6.741	6.747	(0.998)	660759	5.00000	4.9862
20 Chrysene	228	6.773	6.780	(1.002)	612269	5.00000	4.8367
21 Benzo(b)fluoranthene	252	7.569	7.576	(0.963)	710467	5.00000	5.2728
22 Benzo(k)fluoranthene	252	7.591	7.597	(0.966)	730891	5.00000	4.6452
23 Benzo(a)pyrene	252	7.799	7.811	(0.993)	643416	5.00000	5.1094
25 Indeno(1,2,3-cd)pyrene	276	8.686	8.703	(1.105)	547777	5.00000	4.8729
26 Dibenzo(a,h)anthracene	278	8.718	8.735	(1.109)	553931	5.00000	4.9728
27 Benzo(g,h,i)perylene	276	8.932	8.954	(1.137)	595327	5.00000	4.9734

Data File: 1AF11007.D

Date: 11-JUN-2013 15:28

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559457 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11008.D
Lab Smp Id: IC-1559458
Inj Date : 11-JUN-2013 15:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559458
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 15:28 Cal File: 1AF11007.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

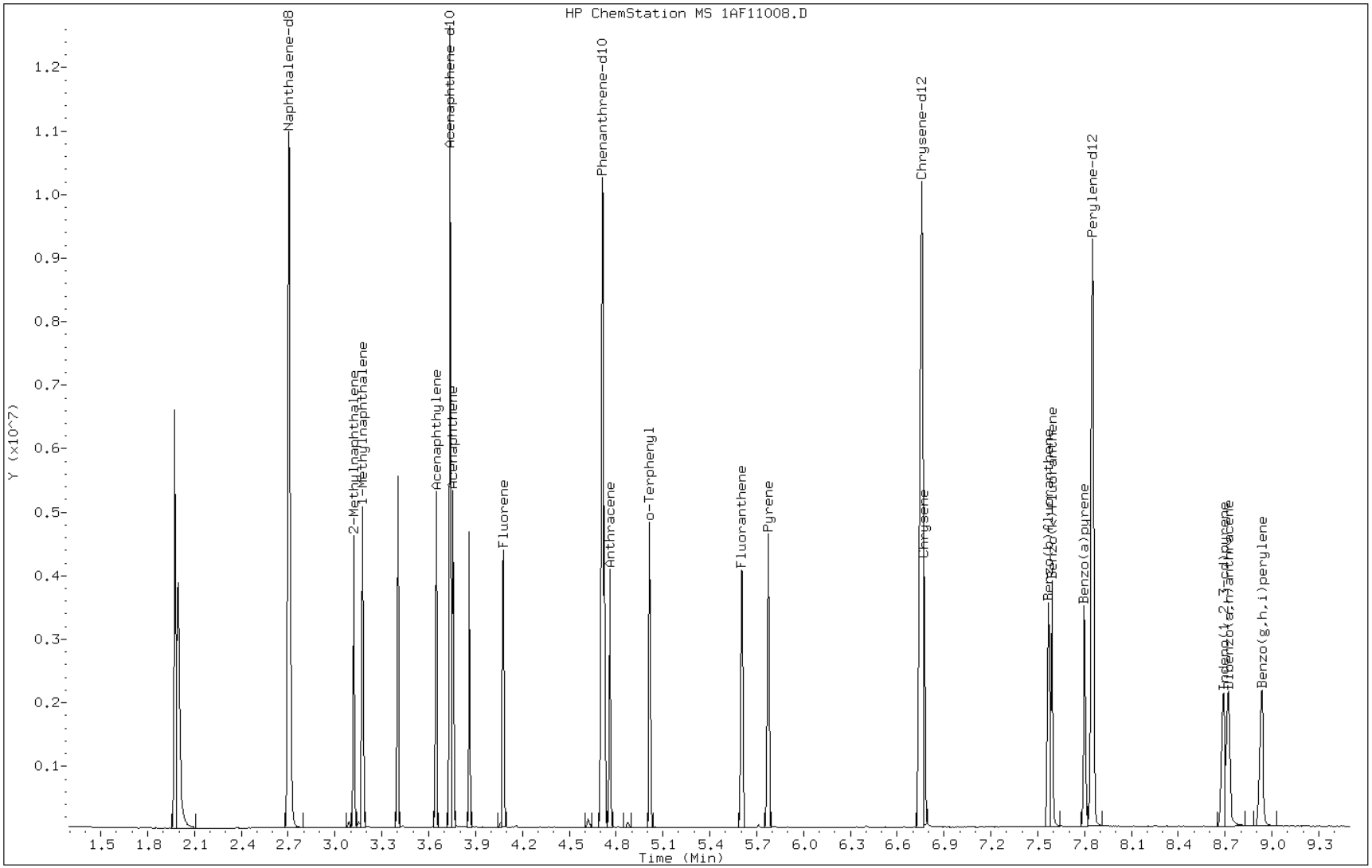
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.701	2.703	(1.000)	5034439	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.740	(1.000)	2480026	40.0000	
* 11 Phenanthrene-d10	188	4.710	4.712	(1.000)	3866184	40.0000	
$ 15 o-Terphenyl	230	5.014	5.017	(1.065)	727251	10.0000	9.9987
* 19 Chrysene-d12	240	6.756	6.763	(1.000)	3643335	40.0000	
* 24 Perylene-d12	264	7.851	7.859	(1.000)	4076245	40.0000	
2 Naphthalene	128	2.717	2.714	(1.006)	1404475	10.0000	10.6846
3 2-Methylnaphthalene	141	3.118	3.120	(1.154)	840786	10.0000	10.0608
4 1-Methylnaphthalene	142	3.176	3.179	(1.176)	975633	10.0000	10.0571
6 Acenaphthylene	152	3.647	3.649	(0.976)	1554021	10.0000	9.9324
8 Acenaphthene	154	3.753	3.756	(1.004)	801620	10.0000	9.8647
10 Fluorene	166	4.079	4.082	(1.091)	1058377	10.0000	9.6988
12 Phenanthrene	178	4.726	4.728	(1.003)	1257185	10.0000	10.0042
13 Anthracene	178	4.758	4.766	(1.010)	1333306	10.0000	9.8393
16 Fluoranthene	202	5.607	5.610	(1.191)	1521124	10.0000	9.8830
17 Pyrene	202	5.773	5.775	(0.855)	1542426	10.0000	10.5008
18 Benzo(a)anthracene	228	6.745	6.747	(0.998)	1260429	10.0000	10.1882
20 Chrysene	228	6.772	6.780	(1.002)	1210601	10.0000	10.1444
21 Benzo(b)fluoranthene	252	7.568	7.576	(0.964)	1309504	10.0000	10.1500
22 Benzo(k)fluoranthene	252	7.589	7.597	(0.967)	1467570	10.0000	10.3132
23 Benzo(a)pyrene	252	7.797	7.811	(0.993)	1274296	10.0000	10.5685
25 Indeno(1,2,3-cd)pyrene	276	8.690	8.703	(1.107)	1086943	10.0000	10.0985
26 Dibenzo(a,h)anthracene	278	8.722	8.735	(1.111)	1107880	10.0000	10.3874
27 Benzo(g,h,i)perylene	276	8.935	8.954	(1.138)	1181829	10.0000	10.3113

Data File: 1AF11008.D

Date: 11-JUN-2013 15:43

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559458 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11009.D
Lab Smp Id: IC-1559464
Inj Date : 11-JUN-2013 15:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559464
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 15:43 Cal File: 1AF11008.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	2.701	2.703	(1.000)	4816575	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.740	(1.000)	2431947	40.0000	
* 11 Phenanthrene-d10	188	4.715	4.712	(1.000)	3868953	40.0000	
$ 15 o-Terphenyl	230	5.019	5.017	(1.065)	1696327	30.0000	29.6148
* 19 Chrysene-d12	240	6.761	6.763	(1.000)	3332810	40.0000	
* 24 Perylene-d12	264	7.851	7.859	(1.000)	3923780	40.0000	
2 Naphthalene	128	2.717	2.714	(1.006)	3326970	30.0000	26.4549
3 2-Methylnaphthalene	141	3.123	3.120	(1.156)	1936226	30.0000	30.1098
4 1-Methylnaphthalene	142	3.176	3.179	(1.176)	2189227	30.0000	29.9175
6 Acenaphthylene	152	3.647	3.649	(0.976)	3520715	30.0000	30.0067
8 Acenaphthene	154	3.759	3.756	(1.006)	1835869	30.0000	30.1814
10 Fluorene	166	4.079	4.082	(1.091)	2445422	30.0000	29.8181
12 Phenanthrene	178	4.731	4.728	(1.003)	2957432	30.0000	29.9043
13 Anthracene	178	4.763	4.766	(1.010)	3219050	30.0000	30.1752
16 Fluoranthene	202	5.607	5.610	(1.189)	3690687	30.0000	29.9703
17 Pyrene	202	5.778	5.775	(0.855)	3739097	30.0000	27.8274
18 Benzo(a)anthracene	228	6.750	6.747	(0.998)	3334506	30.0000	29.6474
20 Chrysene	228	6.782	6.780	(1.003)	2942262	30.0000	26.9523
21 Benzo(b)fluoranthene	252	7.573	7.576	(0.965)	3452867	30.0000	27.8034
22 Benzo(k)fluoranthene	252	7.600	7.597	(0.968)	3506008	30.0000	30.7666
23 Benzo(a)pyrene	252	7.808	7.811	(0.995)	3401826	30.0000	29.3098
25 Indeno(1,2,3-cd)pyrene	276	8.700	8.703	(1.108)	3265173	30.0000	31.5146
26 Dibenzo(a,h)anthracene	278	8.732	8.735	(1.112)	3076782	30.0000	29.9687
27 Benzo(g,h,i)perylene	276	8.951	8.954	(1.140)	3338836	30.0000	30.2630

Data File: 1AF11009.D

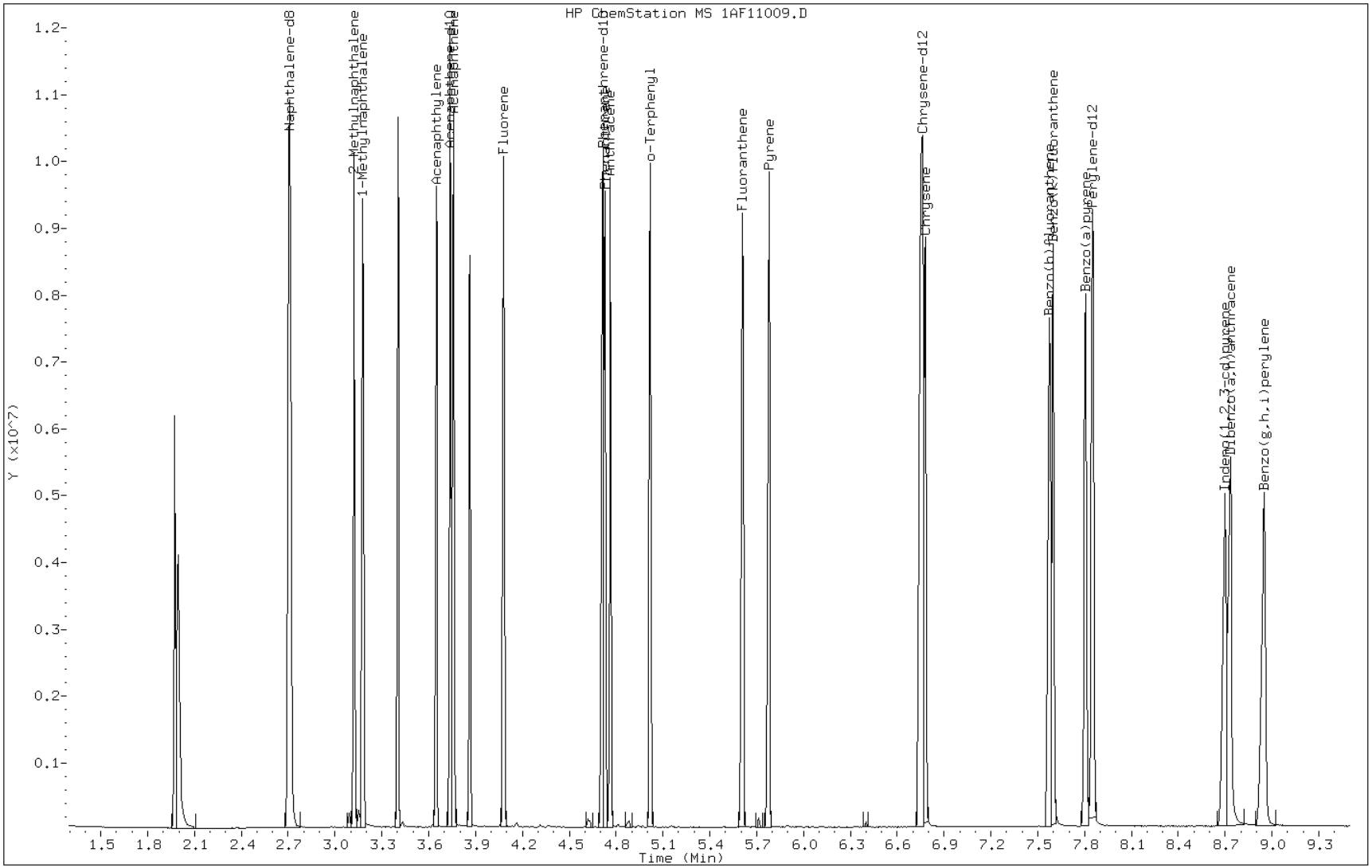
Date: 11-JUN-2013 15:58

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559464

Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11010.D
Lab Smp Id: IC-1559465
Inj Date : 11-JUN-2013 16:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559465
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 15:58 Cal File: 1AF11009.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	2.704	2.703	(1.000)	4709953	40.0000	
* 7 Acenaphthene-d10	164	3.741	3.740	(1.000)	2465737	40.0000	
* 11 Phenanthrene-d10	188	4.713	4.712	(1.000)	3969083	40.0000	
$ 15 o-Terphenyl	230	5.023	5.017	(1.066)	2516547	50.0000	50.0646(A)
* 19 Chrysene-d12	240	6.764	6.763	(1.000)	3142871	40.0000	
* 24 Perylene-d12	264	7.859	7.859	(1.000)	3888339	40.0000	
2 Naphthalene	128	2.715	2.714	(1.004)	4860995	50.0000	39.5280
3 2-Methylnaphthalene	141	3.121	3.120	(1.154)	2729593	50.0000	49.9581
4 1-Methylnaphthalene	142	3.180	3.179	(1.176)	3075350	50.0000	50.0029(A)
6 Acenaphthylene	152	3.650	3.649	(0.976)	5048430	50.0000	49.9490
8 Acenaphthene	154	3.762	3.756	(1.006)	2620336	50.0000	49.8895
10 Fluorene	166	4.082	4.082	(1.091)	3525406	50.0000	49.9495
12 Phenanthrene	178	4.734	4.728	(1.005)	4351333	50.0000	49.9858
13 Anthracene	178	4.766	4.766	(1.011)	4707873	50.0000	49.9006
16 Fluoranthene	202	5.610	5.610	(1.190)	5456781	50.0000	49.9505
17 Pyrene	202	5.781	5.775	(0.855)	5558621	50.0000	43.8690
18 Benzo(a)anthracene	228	6.748	6.747	(0.998)	5235790	50.0000	49.4294
20 Chrysene	228	6.786	6.780	(1.003)	4476128	50.0000	43.4813
21 Benzo(b)fluoranthene	252	7.582	7.576	(0.965)	5506891	50.0000	44.7471
22 Benzo(k)fluoranthene	252	7.608	7.597	(0.968)	4987091	50.0000	49.7813
23 Benzo(a)pyrene	252	7.817	7.811	(0.995)	5155395	50.0000	44.8233
25 Indeno(1,2,3-cd)pyrene	276	8.709	8.703	(1.108)	5284832	50.0000	51.4728(A)
26 Dibenzo(a,h)anthracene	278	8.746	8.735	(1.113)	4870973	50.0000	47.8771
27 Benzo(g,h,i)perylene	276	8.970	8.954	(1.141)	5223804	50.0000	47.7799

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 1AF11010.D

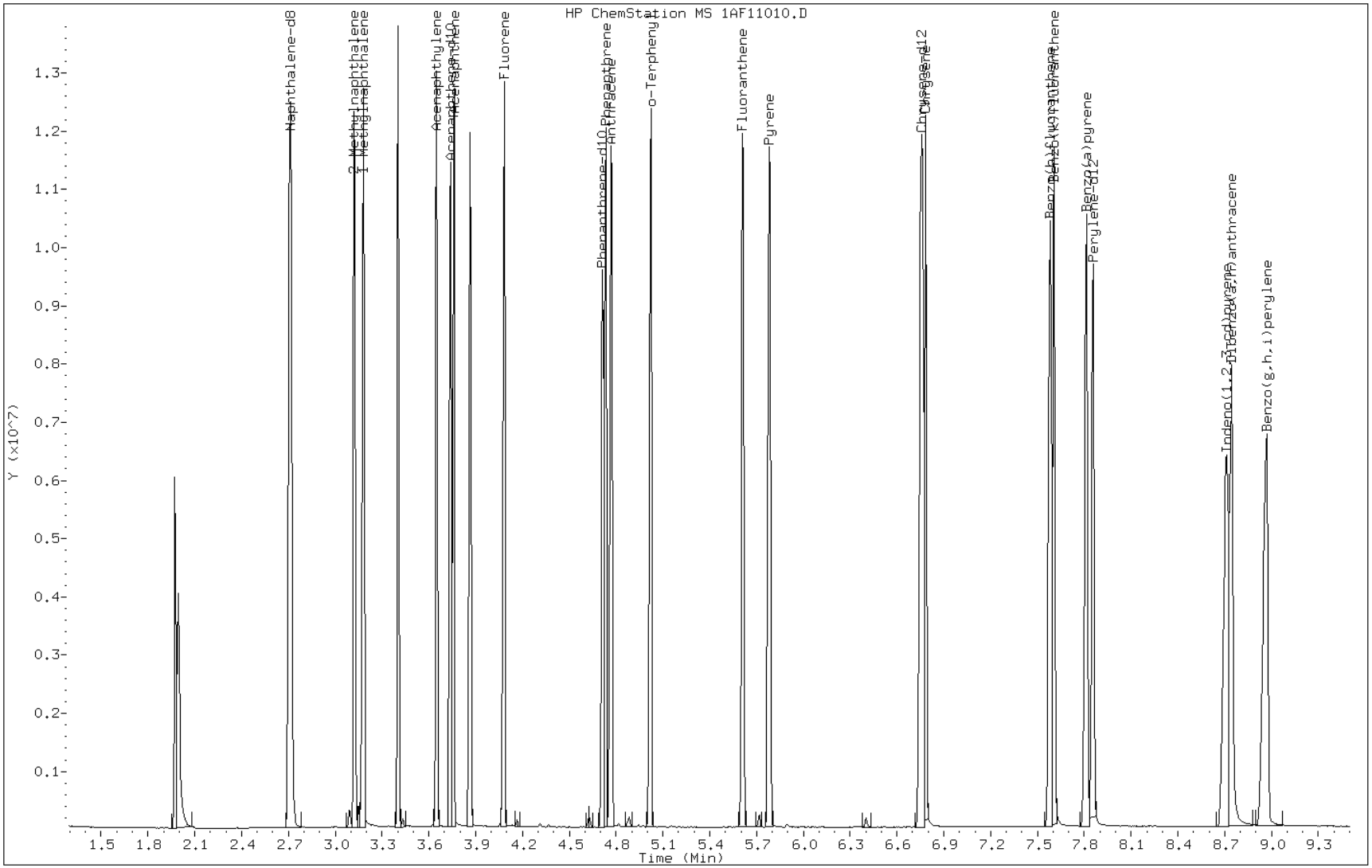
Date: 11-JUN-2013 16:13

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559465

Operator: SCC



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-2 Analy Batch No.: 139145

SDG No.: 68091719-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-139145/8	1AG07007.D
Level 2	IC 660-139145/9	1AG07008.D
Level 3	IC 660-139145/10	1AG07009.D
Level 4	IC 660-139145/11	1AG07010.D
Level 5	ICIS 660-139145/7	1AG07006.D
Level 6	IC 660-139145/12	1AG07011.D
Level 7	IC 660-139145/13	1AG07012.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	0.9023 0.9100	0.9222 0.8955	0.8708	0.9212	0.9041	Ave		0.9038			0.0000	1.9		15.0			
2-Methylnaphthalene	0.4971 0.5068	0.5433 0.4921	0.5106	0.5442	0.5152	Ave		0.5156			0.0000	4.0		15.0			
1-Methylnaphthalene	0.6060 0.5864	0.6347 0.5720	0.6103	0.6132	0.5920	Ave		0.6021			0.0000	3.4		15.0			
1,1'-Biphenyl	0.8067 0.7493	0.7768 0.7060	0.7329	0.7740	0.7544	Ave		0.7571				4.3					
Acenaphthylene	1.7748 1.7947	1.7666 1.7441	1.7388	1.8319	1.8395	Ave		1.7843			0.0000	2.2		15.0			
Acenaphthene	0.8766 0.9602	0.9457 0.9331	0.9080	0.9470	0.9746	Ave		0.9350			0.0000	3.6		15.0			
Dibenzofuran	1.5200 1.5534	1.5328 1.5121	1.4888	1.5791	1.5737	Ave		1.5371				2.2					
Fluorene	1.1858 1.2643	1.2490 1.2493	1.2507	1.2841	1.2744	Ave		1.2511			0.0000	2.5		15.0			
Phenanthrene	1.1284 0.9745	1.0308 0.9846	0.9800	1.0258	1.0022	Ave		1.0180			0.0000	5.2		15.0			
Anthracene	1.0428 1.0486	1.0947 1.0171	1.0770	1.0851	1.0658	Ave		1.0616			0.0000	2.6		15.0			
Fluoranthene	1.2446 1.2154	1.2368 1.1671	1.2314	1.2700	1.2098	Ave		1.2250			0.0000	2.6		15.0			
Pyrene	1.2793 1.3488	1.3595 1.3081	1.3115	1.3747	1.3397	Ave		1.3316			0.0000	2.5		15.0			
Benzo[a]anthracene	1.9845 1.2875	1.3732 1.2641	1.2173	1.3378	1.2673	Lin1	-0.003	1.2697							0.9996		
Chrysene	1.1099 1.0735	1.0886 1.0798	1.0604	1.0922	1.0806	Ave		1.0836			0.0000	1.4		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.: 680-91719-2 Analy Batch No.: 139145

SDG No.: 68091719-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

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[b]fluoranthene	1.1087 1.1274	1.0600 1.1737	1.2193	1.1486	1.1330	Ave		1.1387			0.0000	4.4		15.0			
Benzo[k]fluoranthene	1.3643 1.1493	1.2719 1.0848	1.0256	1.2309	1.1030	Ave		1.1757			0.0000	10.1		15.0			
Benzo[a]pyrene	1.0682 1.0625	1.0477 1.0655	1.0075	1.0738	1.0459	Ave		1.0530			0.0000	2.1		15.0			
Indeno[1,2,3-cd]pyrene	0.8684 0.9382	0.8748 1.0101	0.8587	0.9451	0.9318	Ave		0.9182			0.0000	5.9		15.0			
Dibenz(a,h)anthracene	0.8537 0.8772	0.8828 0.9092	0.8085	0.8712	0.8744	Ave		0.8681			0.0000	3.6		15.0			
Benzo[g,h,i]perylene	0.8566 0.8816	0.8766 0.8924	0.8174	0.8850	0.8842	Ave		0.8705			0.0000	3.0		15.0			
o-Terphenyl	0.6096 0.5945	0.6268 0.5940	0.6045	0.6186	0.6068	Ave		0.6078			0.0000	2.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-2 Analy Batch No.: 139145

SDG No.: 68091719-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-139145/8	1AG07007.D
Level 2	IC 660-139145/9	1AG07008.D
Level 3	IC 660-139145/10	1AG07009.D
Level 4	IC 660-139145/11	1AG07010.D
Level 5	ICIS 660-139145/7	1AG07006.D
Level 6	IC 660-139145/12	1AG07011.D
Level 7	IC 660-139145/13	1AG07012.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	13431 1927893	61877 2852835	301095	605351	1383006	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7399 1073707	36454 1567778	176549	357594	788013	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	9020 1242182	42586 1822273	211021	402937	905485	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	NPT	Ave	12008 1587355	52120 2249022	253396	508614	1153898	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	14614 2033091	65620 2885030	332425	653627	1501379	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7218 1087780	35129 1543480	173599	337901	795500	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	Ave	12516 1759761	56937 2501371	284635	563427	1284453	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	9764 1432257	46393 2066554	239103	458164	1040175	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	14233 1773307	57325 2590983	290573	571628	1316515	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	13153 1908133	60878 2676534	319342	604719	1400023	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	15699 2211610	68785 3071278	365106	707750	1589170	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	15341 2186947	71019 3087188	367477	705318	1612700	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin1	23798 2087536	71737 2983331	341097	686400	1525597	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13310 1740672	56871 2548308	297114	560406	1300893	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13885 2011962	59453 3015708	372570	639030	1413979	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.: 680-91719-2 Analy Batch No.: 139145

SDG No.: 68091719-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

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[k]fluoranthene	PRY	Ave	17087 2051012	71340 2787317	313390	684827	1376535	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Ave	13378 1896070	58766 2737842	307843	597414	1305339	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	10876 1674354	49064 2595380	262402	525835	1162923	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	10692 1565377	49514 2336050	247039	484702	1091241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	10728 1573264	49166 2292969	249756	492386	1103444	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7689 1081834	34857 1563245	179250	344702	797094	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07006.D
Lab Smp Id: ICIS-1559459
Inj Date : 07-JUL-2013 14:06
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

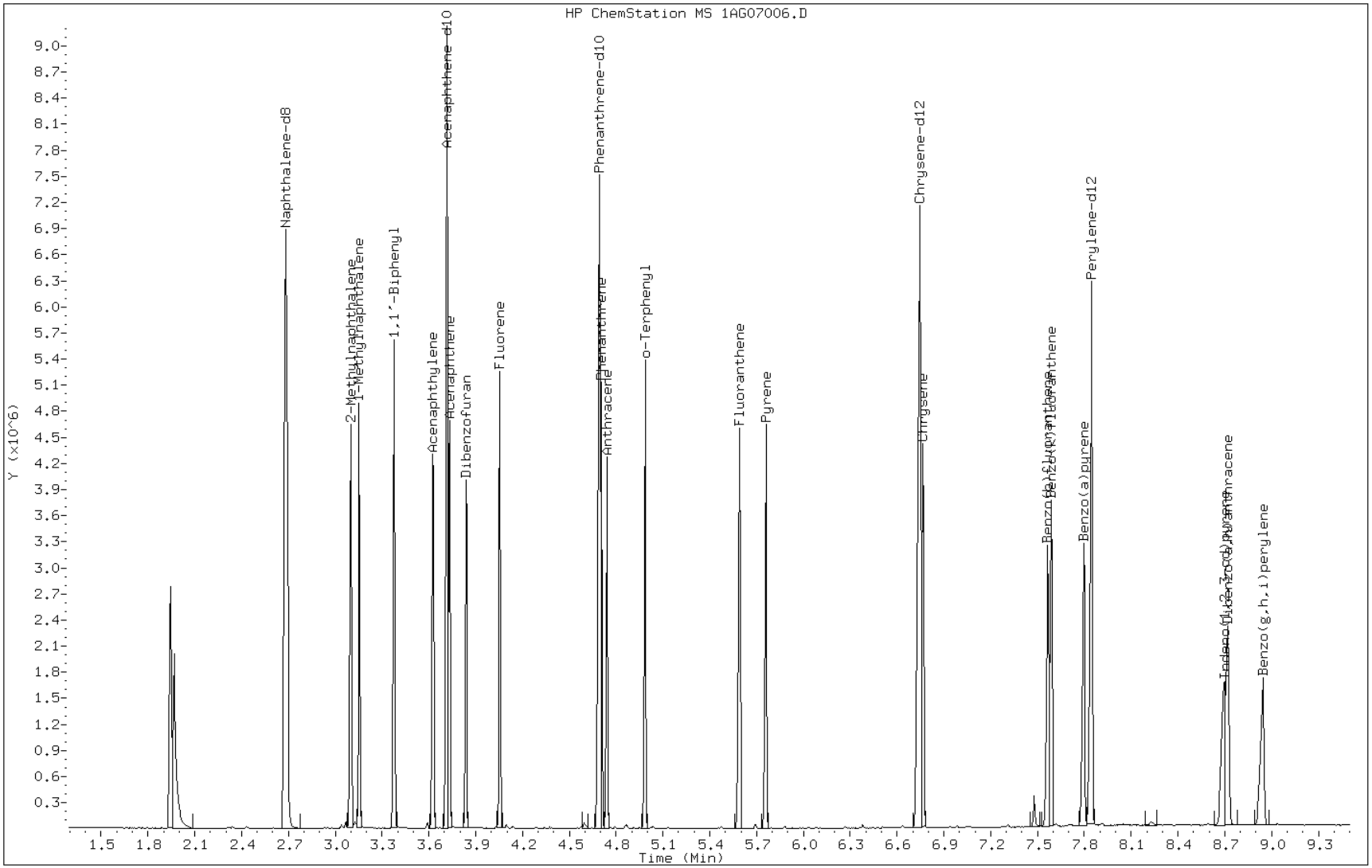
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.683	2.683	(1.000)	3059306	40.0000	
* 7 Acenaphthene-d10	164	3.714	3.714	(1.000)	1632402	40.0000	
* 11 Phenanthrene-d10	188	4.691	4.691	(1.000)	2627201	40.0000	
$ 15 o-Terphenyl	230	4.985	4.985	(1.063)	797094	20.0000	20.1393
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	2407613	40.0000	
* 24 Perylene-d12	264	7.848	7.848	(1.000)	2496028	40.0000	
2 Naphthalene	128	2.693	2.693	(1.004)	1383006	20.0000	20.0083
3 2-Methylnaphthalene	141	3.099	3.099	(1.155)	788013	20.0000	19.9192
4 1-Methylnaphthalene	142	3.153	3.153	(1.175)	905485	20.0000	19.9066
5 1,1'-Biphenyl	154	3.377	3.377	(1.259)	1153898	20.0000	19.9262
6 Acenaphthylene	152	3.628	3.628	(0.977)	1501379	20.0000	20.1747
8 Acenaphthene	154	3.735	3.735	(1.006)	795500	20.0000	20.1490
9 Dibenzofuran	168	3.836	3.836	(1.033)	1284453	20.0000	20.4756
10 Fluorene	166	4.055	4.055	(1.092)	1040175	20.0000	20.0258
12 Phenanthrene	178	4.707	4.707	(1.003)	1316515	20.0000	20.2411
13 Anthracene	178	4.739	4.739	(1.010)	1400023	20.0000	20.0049
16 Fluoranthene	202	5.589	5.589	(1.191)	1589170	20.0000	19.6973
17 Pyrene	202	5.760	5.760	(0.854)	1612700	20.0000	20.1206
18 Benzo(a)anthracene	228	6.732	6.732	(0.998)	1525597	20.0000	19.9969
20 Chrysene	228	6.764	6.764	(1.002)	1300893	20.0000	19.9457
21 Benzo(b)fluoranthene	252	7.565	7.565	(0.964)	1413979	20.0000	19.9002
22 Benzo(k)fluoranthene	252	7.587	7.587	(0.967)	1376535	20.0000	19.1822
23 Benzo(a)pyrene	252	7.795	7.795	(0.993)	1305339	20.0000	19.8653
25 Indeno(1,2,3-cd)pyrene	276	8.692	8.692	(1.108)	1162923	20.0000	20.2972
26 Dibenzo(a,h)anthracene	278	8.719	8.719	(1.111)	1091241	20.0000	20.1440
27 Benzo(g,h,i)perylene	276	8.944	8.944	(1.140)	1103444	20.0000	20.3131

Data File: 1AG07006.D

Date: 07-JUL-2013 14:06

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1559459 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07007.D
Lab Smp Id: IC-1559454
Inj Date : 07-JUL-2013 14:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559454
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 14:06 Cal File: 1AG07006.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.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	2.677	2.683	(1.000)	2977082	40.0000	
* 7 Acenaphthene-d10	164	3.713	3.714	(1.000)	1646858	40.0000	
* 11 Phenanthrene-d10	188	4.691	4.691	(1.000)	2522675	40.0000	
$ 15 o-Terphenyl	230	4.985	4.985	(1.063)	7689	0.20000	0.1442
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	2398347	40.0000	
* 24 Perylene-d12	264	7.859	7.848	(1.000)	2504795	40.0000	
2 Naphthalene	128	2.688	2.693	(1.004)	13431	0.20000	0.1996(Q)
3 2-Methylnaphthalene	141	3.094	3.099	(1.156)	7399	0.20000	0.1851
4 1-Methylnaphthalene	142	3.152	3.153	(1.178)	9020	0.20000	0.1508
5 1,1'-Biphenyl	154	3.377	3.377	(1.261)	12008	0.20000	0.2130
6 Acenaphthylene	152	3.623	3.628	(0.976)	14614	0.20000	0.3285
8 Acenaphthene	154	3.729	3.735	(1.004)	7218	0.20000	0.3752
9 Dibenzofuran	168	3.836	3.836	(1.033)	12516	0.20000	0.1977
10 Fluorene	166	4.050	4.055	(1.091)	9764	0.20000	0.2333
12 Phenanthrene	178	4.702	4.707	(1.002)	14233	0.20000	0.1411
13 Anthracene	178	4.739	4.739	(1.010)	13153	0.20000	0.2144
16 Fluoranthene	202	5.583	5.589	(1.190)	15699	0.20000	0.2348
17 Pyrene	202	5.754	5.760	(0.853)	15341	0.20000	0.1921
18 Benzo(a)anthracene	228	6.737	6.732	(0.998)	23798	0.20000	0.2011
20 Chrysene	228	6.758	6.764	(1.002)	13310	0.20000	0.2048
21 Benzo(b)fluoranthene	252	7.565	7.565	(0.963)	13885	0.20000	0.1947(H)
22 Benzo(k)fluoranthene	252	7.581	7.587	(0.965)	17087	0.20000	0.3628
23 Benzo(a)pyrene	252	7.800	7.795	(0.993)	13378	0.20000	0.2028
25 Indeno(1,2,3-cd)pyrene	276	8.687	8.692	(1.105)	10876	0.20000	0.1891(H)
26 Dibenzo(a,h)anthracene	278	8.719	8.719	(1.109)	10692	0.20000	0.1966
27 Benzo(g,h,i)perylene	276	8.938	8.944	(1.137)	10728	0.20000	0.1967

QC Flag Legend

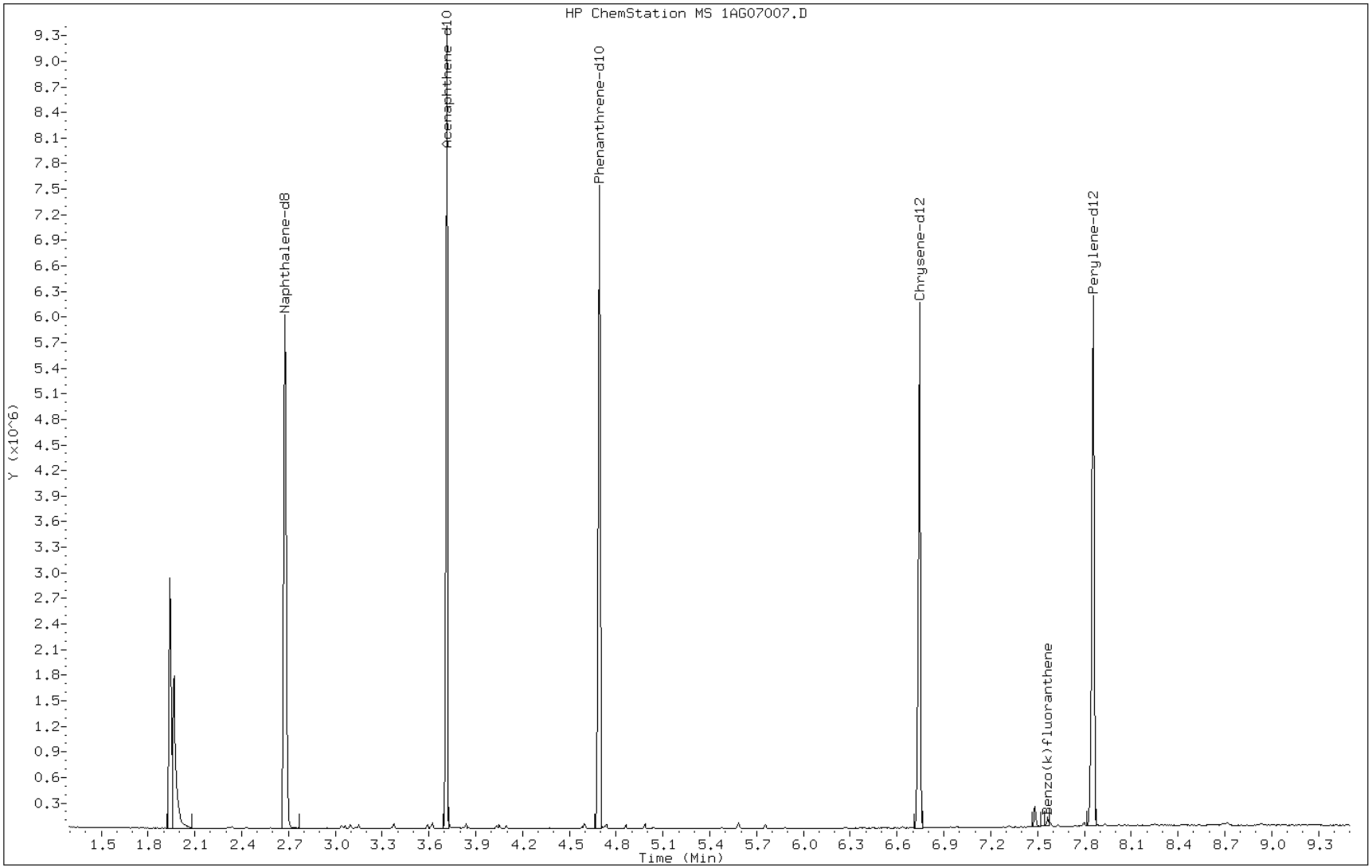
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: 1AG07007.D

Date: 07-JUL-2013 14:31

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559454 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07008.D
Lab Smp Id: IC-1559455
Inj Date : 07-JUL-2013 14:46
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559455
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 14:31 Cal File: 1AG07007.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.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	2.675	2.683	(1.000)	2683865	40.0000	
* 7 Acenaphthene-d10	164	3.711	3.714	(1.000)	1485793	40.0000	
* 11 Phenanthrene-d10	188	4.689	4.691	(1.000)	2224524	40.0000	
$ 15 o-Terphenyl	230	4.983	4.985	(1.063)	34857	1.00000	0.9768
* 19 Chrysene-d12	240	6.740	6.748	(1.000)	2089618	40.0000	
* 24 Perylene-d12	264	7.846	7.848	(1.000)	2243535	40.0000	
2 Naphthalene	128	2.691	2.693	(1.006)	61877	1.00000	1.0204
3 2-Methylnaphthalene	141	3.097	3.099	(1.158)	36454	1.00000	1.0133
4 1-Methylnaphthalene	142	3.150	3.153	(1.178)	42586	1.00000	0.9943
5 1,1'-Biphenyl	154	3.375	3.377	(1.262)	52120	1.00000	1.0259
6 Acenaphthylene	152	3.621	3.628	(0.976)	65620	1.00000	1.0709
8 Acenaphthene	154	3.727	3.735	(1.004)	35129	1.00000	1.1412
9 Dibenzofuran	168	3.834	3.836	(1.033)	56937	1.00000	0.9972
10 Fluorene	166	4.053	4.055	(1.092)	46393	1.00000	1.0158
12 Phenanthrene	178	4.700	4.707	(1.002)	57325	1.00000	0.9550
13 Anthracene	178	4.737	4.739	(1.010)	60878	1.00000	1.0177
16 Fluoranthene	202	5.581	5.589	(1.190)	68785	1.00000	1.0092
17 Pyrene	202	5.752	5.760	(0.853)	71019	1.00000	1.0208
18 Benzo(a)anthracene	228	6.730	6.732	(0.998)	71737	1.00000	0.9758
20 Chrysene	228	6.756	6.764	(1.002)	56871	1.00000	1.0046
21 Benzo(b)fluoranthene	252	7.558	7.565	(0.963)	59453	1.00000	0.9309
22 Benzo(k)fluoranthene	252	7.574	7.587	(0.965)	71340	1.00000	1.1913
23 Benzo(a)pyrene	252	7.787	7.795	(0.993)	58766	1.00000	0.9949
25 Indeno(1,2,3-cd)pyrene	276	8.674	8.692	(1.106)	49064	1.00000	0.9527(M)
26 Dibenzo(a,h)anthracene	278	8.701	8.719	(1.109)	49514	1.00000	1.0168
27 Benzo(g,h,i)perylene	276	8.920	8.944	(1.137)	49166	1.00000	1.0069

QC Flag Legend

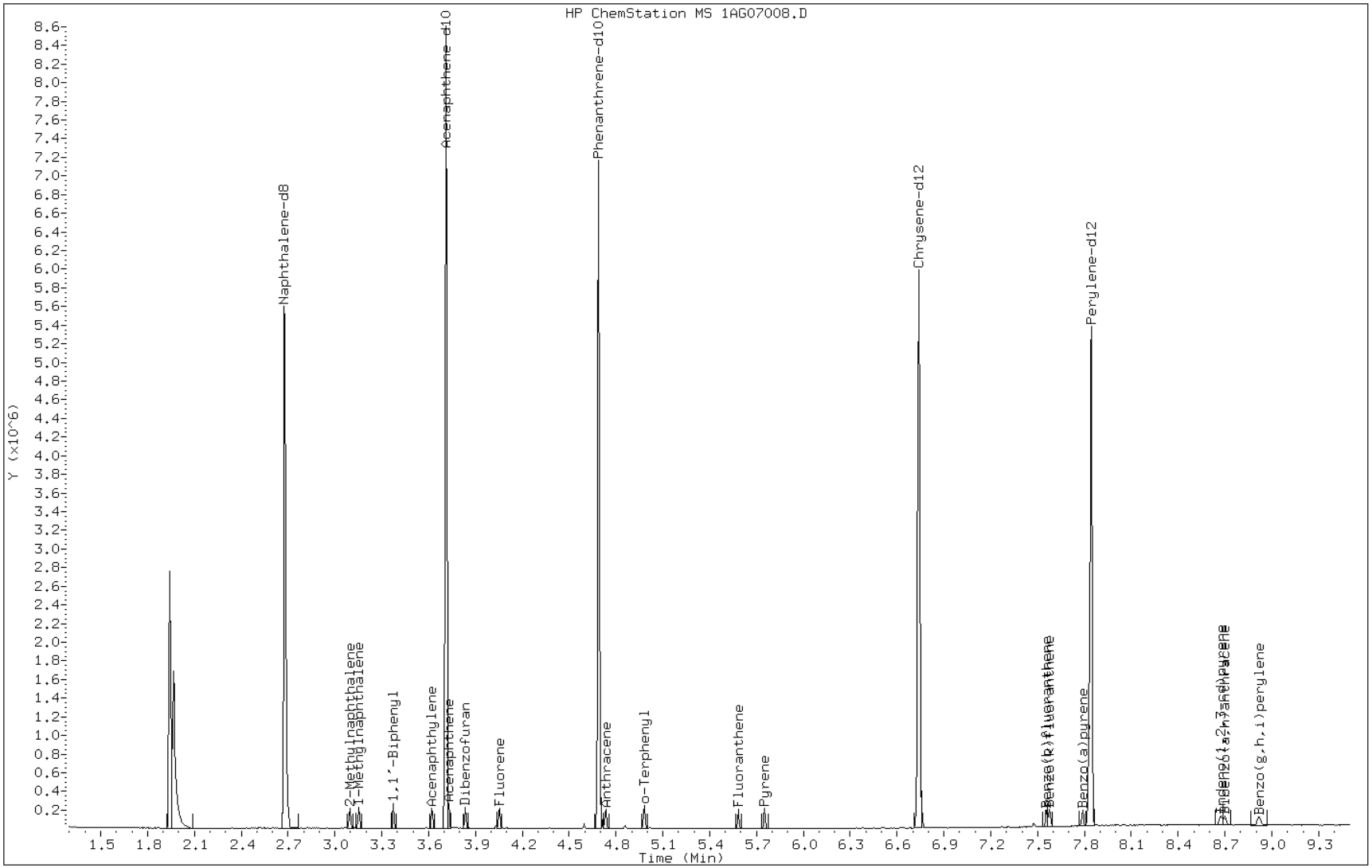
M - Compound response manually integrated.

Data File: 1AG07008.D

Date: 07-JUL-2013 14:46

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559455 Operator: SCC



Manual Integration Report

Data File: 1AG07008.D
Inj. Date and Time: 07-JUL-2013 14:46
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

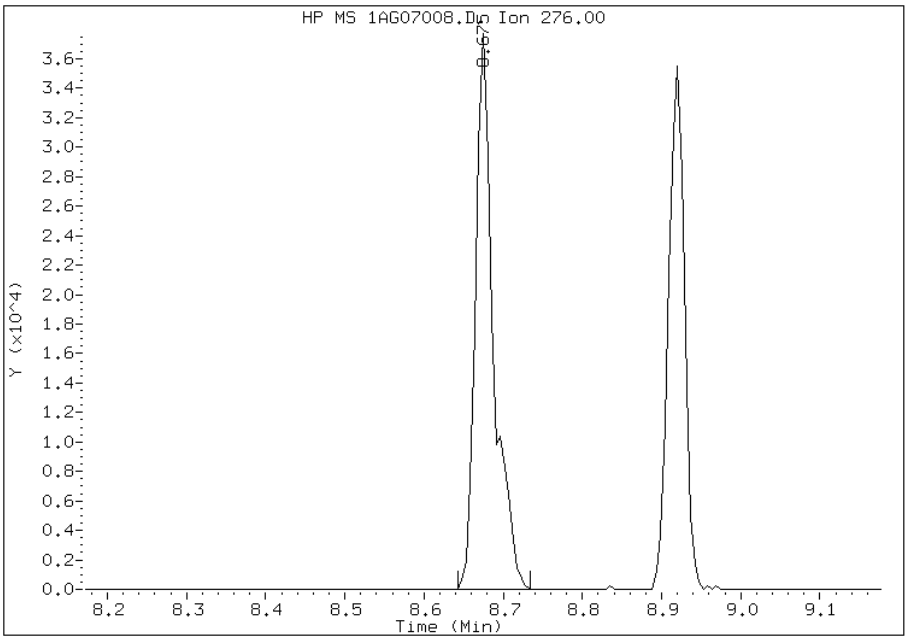
Processing Integration Results

RT: 8.67

Response: 58994

Amount: 1

Conc: 1



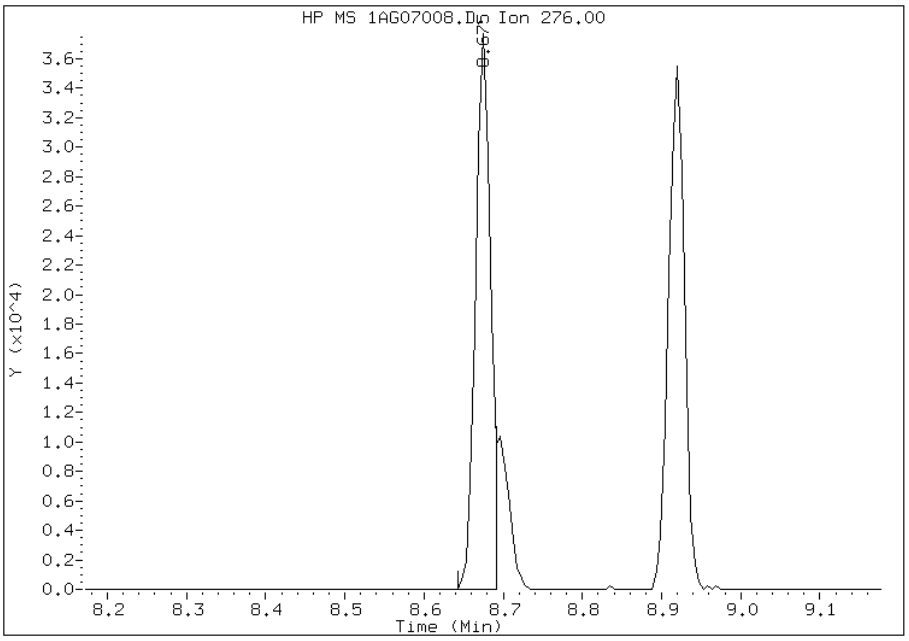
Manual Integration Results

RT: 8.67

Response: 49064

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 11:40
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07009.D
Lab Smp Id: IC-1559457
Inj Date : 07-JUL-2013 15:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559457
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 14:46 Cal File: 1AG07008.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

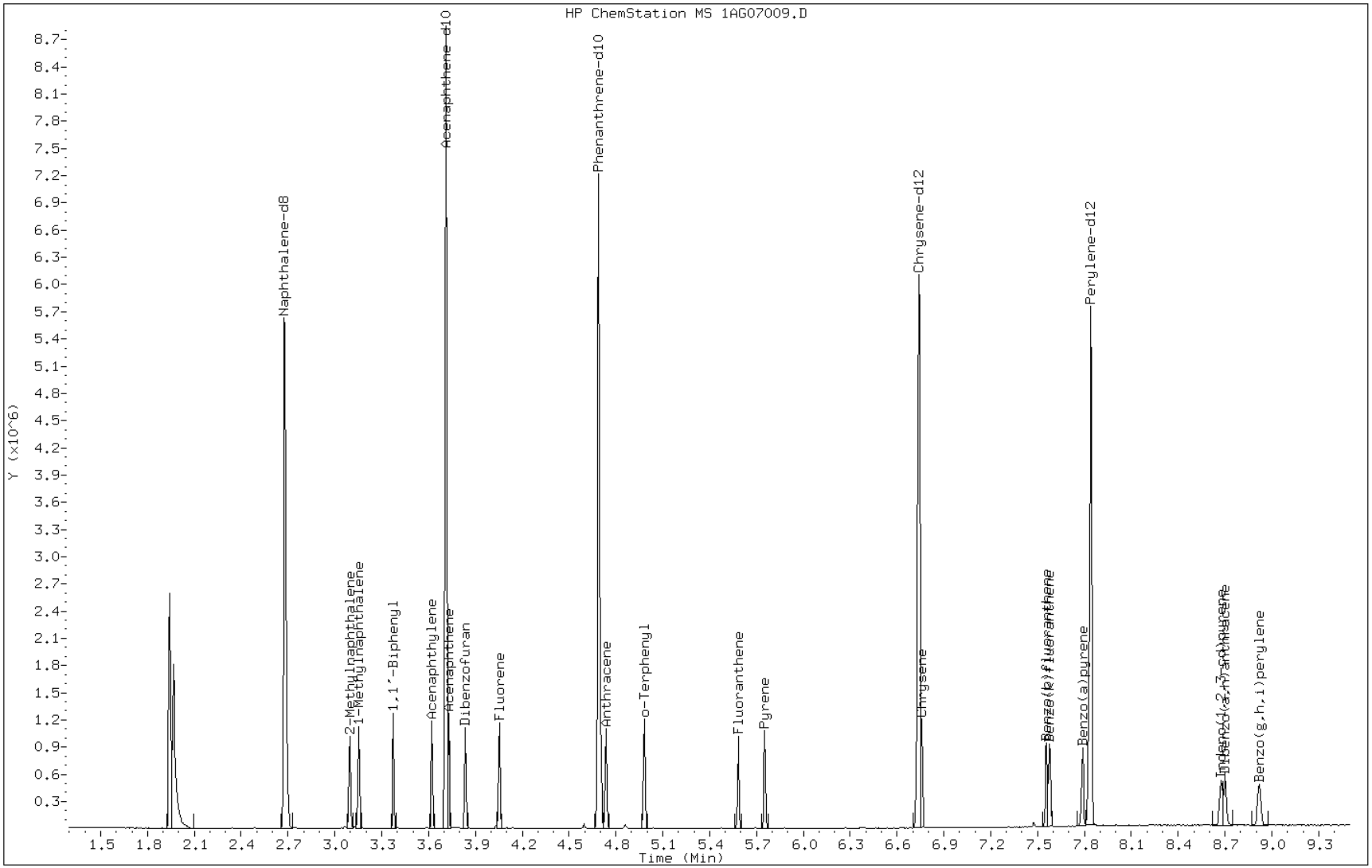
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.675	2.683	(1.000)	2766041	40.0000	
* 7 Acenaphthene-d10	164	3.712	3.714	(1.000)	1529455	40.0000	
* 11 Phenanthrene-d10	188	4.689	4.691	(1.000)	2372049	40.0000	
$ 15 o-Terphenyl	230	4.983	4.985	(1.063)	179250	5.00000	4.9372
* 19 Chrysene-d12	240	6.746	6.748	(1.000)	2241595	40.0000	
* 24 Perylene-d12	264	7.841	7.848	(1.000)	2444516	40.0000	
2 Naphthalene	128	2.691	2.693	(1.006)	301095	5.00000	4.8178
3 2-Methylnaphthalene	141	3.097	3.099	(1.158)	176549	5.00000	4.7977
4 1-Methylnaphthalene	142	3.151	3.153	(1.178)	211021	5.00000	4.9918
5 1,1'-Biphenyl	154	3.375	3.377	(1.262)	253396	5.00000	4.8397
6 Acenaphthylene	152	3.621	3.628	(0.976)	332425	5.00000	4.7448
8 Acenaphthene	154	3.728	3.735	(1.004)	173599	5.00000	4.7400
9 Dibenzofuran	168	3.835	3.836	(1.033)	284635	5.00000	4.8428
10 Fluorene	166	4.054	4.055	(1.092)	239103	5.00000	4.8989
12 Phenanthrene	178	4.700	4.707	(1.002)	290573	5.00000	4.8695
13 Anthracene	178	4.737	4.739	(1.010)	319342	5.00000	4.9413
16 Fluoranthene	202	5.581	5.589	(1.190)	365106	5.00000	4.9023
17 Pyrene	202	5.752	5.760	(0.853)	367477	5.00000	4.9243
18 Benzo(a)anthracene	228	6.730	6.732	(0.998)	341097	5.00000	4.7156
20 Chrysene	228	6.757	6.764	(1.002)	297114	5.00000	4.8928
21 Benzo(b)fluoranthene	252	7.558	7.565	(0.964)	372570	5.00000	5.3540
22 Benzo(k)fluoranthene	252	7.574	7.587	(0.966)	313390	5.00000	4.4202
23 Benzo(a)pyrene	252	7.788	7.795	(0.993)	307843	5.00000	4.7836
25 Indeno(1,2,3-cd)pyrene	276	8.675	8.692	(1.106)	262402	5.00000	4.6763
26 Dibenzo(a,h)anthracene	278	8.701	8.719	(1.110)	247039	5.00000	4.6563
27 Benzo(g,h,i)perylene	276	8.920	8.944	(1.138)	249756	5.00000	4.6946

Data File: 1AG07009.D

Date: 07-JUL-2013 15:01

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559457 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07010.D
Lab Smp Id: IC-1559458
Inj Date : 07-JUL-2013 15:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559458
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:01 Cal File: 1AG07009.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

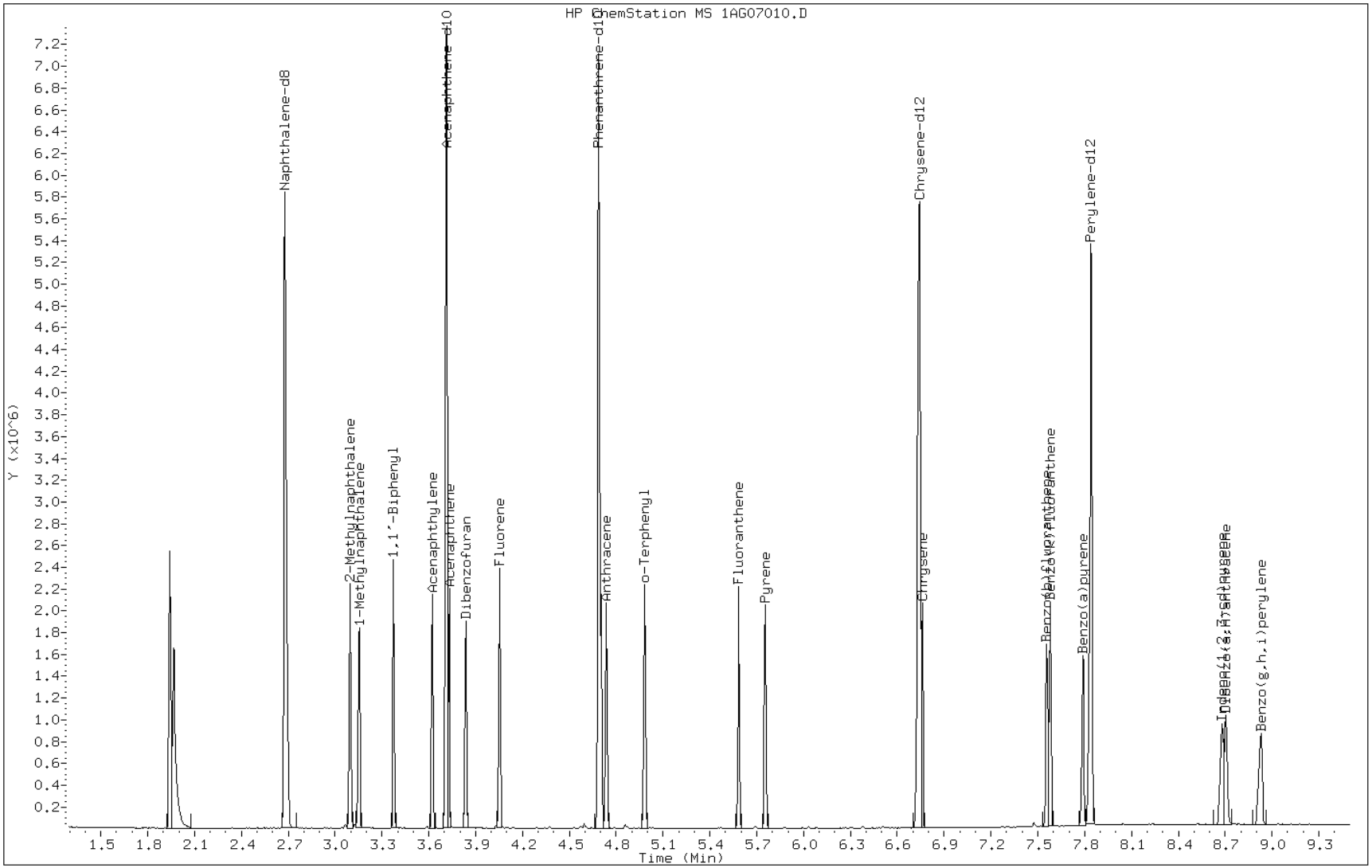
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.679	2.683	(1.000)	2628466	40.0000	
* 7 Acenaphthene-d10	164	3.716	3.714	(1.000)	1427220	40.0000	
* 11 Phenanthrene-d10	188	4.688	4.691	(1.000)	2229096	40.0000	
$ 15 o-Terphenyl	230	4.982	4.985	(1.063)	344702	10.0000	10.1884
* 19 Chrysene-d12	240	6.745	6.748	(1.000)	2052356	40.0000	
* 24 Perylene-d12	264	7.845	7.848	(1.000)	2225417	40.0000	
2 Naphthalene	128	2.690	2.693	(1.004)	605351	10.0000	10.1933
3 2-Methylnaphthalene	141	3.096	3.099	(1.155)	357594	10.0000	10.3360
4 1-Methylnaphthalene	142	3.155	3.153	(1.177)	402937	10.0000	10.1520
5 1,1'-Biphenyl	154	3.374	3.377	(1.259)	508614	10.0000	10.2227
6 Acenaphthylene	152	3.625	3.628	(0.976)	653627	10.0000	9.9351
8 Acenaphthene	154	3.732	3.735	(1.004)	337901	10.0000	9.7424
9 Dibenzofuran	168	3.838	3.836	(1.033)	563427	10.0000	10.2728
10 Fluorene	166	4.052	4.055	(1.091)	458164	10.0000	10.0435
12 Phenanthrene	178	4.704	4.707	(1.003)	571628	10.0000	10.2984
13 Anthracene	178	4.736	4.739	(1.010)	604719	10.0000	10.0222
16 Fluoranthene	202	5.585	5.589	(1.191)	707750	10.0000	10.1744
17 Pyrene	202	5.756	5.760	(0.853)	705318	10.0000	10.3230
18 Benzo(a)anthracene	228	6.729	6.732	(0.998)	686400	10.0000	10.5007
20 Chrysene	228	6.761	6.764	(1.002)	560406	10.0000	10.0796
21 Benzo(b)fluoranthene	252	7.557	7.565	(0.963)	639030	10.0000	10.0872
22 Benzo(k)fluoranthene	252	7.578	7.587	(0.966)	684827	10.0000	10.5650
23 Benzo(a)pyrene	252	7.792	7.795	(0.993)	597414	10.0000	10.1973
25 Indeno(1,2,3-cd)pyrene	276	8.678	8.692	(1.106)	525835	10.0000	10.2937
26 Dibenzo(a,h)anthracene	278	8.705	8.719	(1.110)	484702	10.0000	10.0354
27 Benzo(g,h,i)perylene	276	8.930	8.944	(1.138)	492386	10.0000	10.1664

Data File: 1AG07010.D

Date: 07-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559458 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07011.D
Lab Smp Id: IC-1559464
Inj Date : 07-JUL-2013 15:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559464
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:16 Cal File: 1AG07010.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.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	2.678	2.683	(1.000)	2824617	40.0000	
* 7 Acenaphthene-d10	164	3.714	3.714	(1.000)	1510433	40.0000	
* 11 Phenanthrene-d10	188	4.692	4.691	(1.000)	2426301	40.0000	
$ 15 o-Terphenyl	230	4.986	4.985	(1.063)	1081834	30.0000	29.7569
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	2161929	40.0000	
* 24 Perylene-d12	264	7.849	7.848	(1.000)	2379408	40.0000	
2 Naphthalene	128	2.694	2.693	(1.006)	1927893	30.0000	30.2088
3 2-Methylnaphthalene	141	3.100	3.099	(1.158)	1073707	30.0000	29.9167
4 1-Methylnaphthalene	142	3.153	3.153	(1.178)	1242182	30.0000	29.9921
5 1,1'-Biphenyl	154	3.378	3.377	(1.261)	1587355	30.0000	29.6890
6 Acenaphthylene	152	3.623	3.628	(0.976)	2033091	30.0000	29.9538
8 Acenaphthene	154	3.730	3.735	(1.004)	1087780	30.0000	30.1050
9 Dibenzofuran	168	3.837	3.836	(1.033)	1759761	30.0000	30.3178
10 Fluorene	166	4.056	4.055	(1.092)	1432257	30.0000	29.9803
12 Phenanthrene	178	4.708	4.707	(1.003)	1773307	30.0000	29.6079
13 Anthracene	178	4.740	4.739	(1.010)	1908133	30.0000	30.0007
16 Fluoranthene	202	5.589	5.589	(1.191)	2211610	30.0000	30.2244
17 Pyrene	202	5.760	5.760	(0.854)	2186947	30.0000	30.3859
18 Benzo(a)anthracene	228	6.732	6.732	(0.998)	2087536	30.0000	30.5317
20 Chrysene	228	6.770	6.764	(1.003)	1740672	30.0000	29.7215
21 Benzo(b)fluoranthene	252	7.571	7.565	(0.965)	2011962	30.0000	29.7040
22 Benzo(k)fluoranthene	252	7.593	7.587	(0.967)	2051012	30.0000	30.6158
23 Benzo(a)pyrene	252	7.801	7.795	(0.994)	1896070	30.0000	30.2697
25 Indeno(1,2,3-cd)pyrene	276	8.698	8.692	(1.108)	1674354	30.0000	30.6558
26 Dibenzo(a,h)anthracene	278	8.730	8.719	(1.112)	1565377	30.0000	30.3127
27 Benzo(g,h,i)perylene	276	8.955	8.944	(1.141)	1573264	30.0000	30.3814

Data File: 1AG07011.D

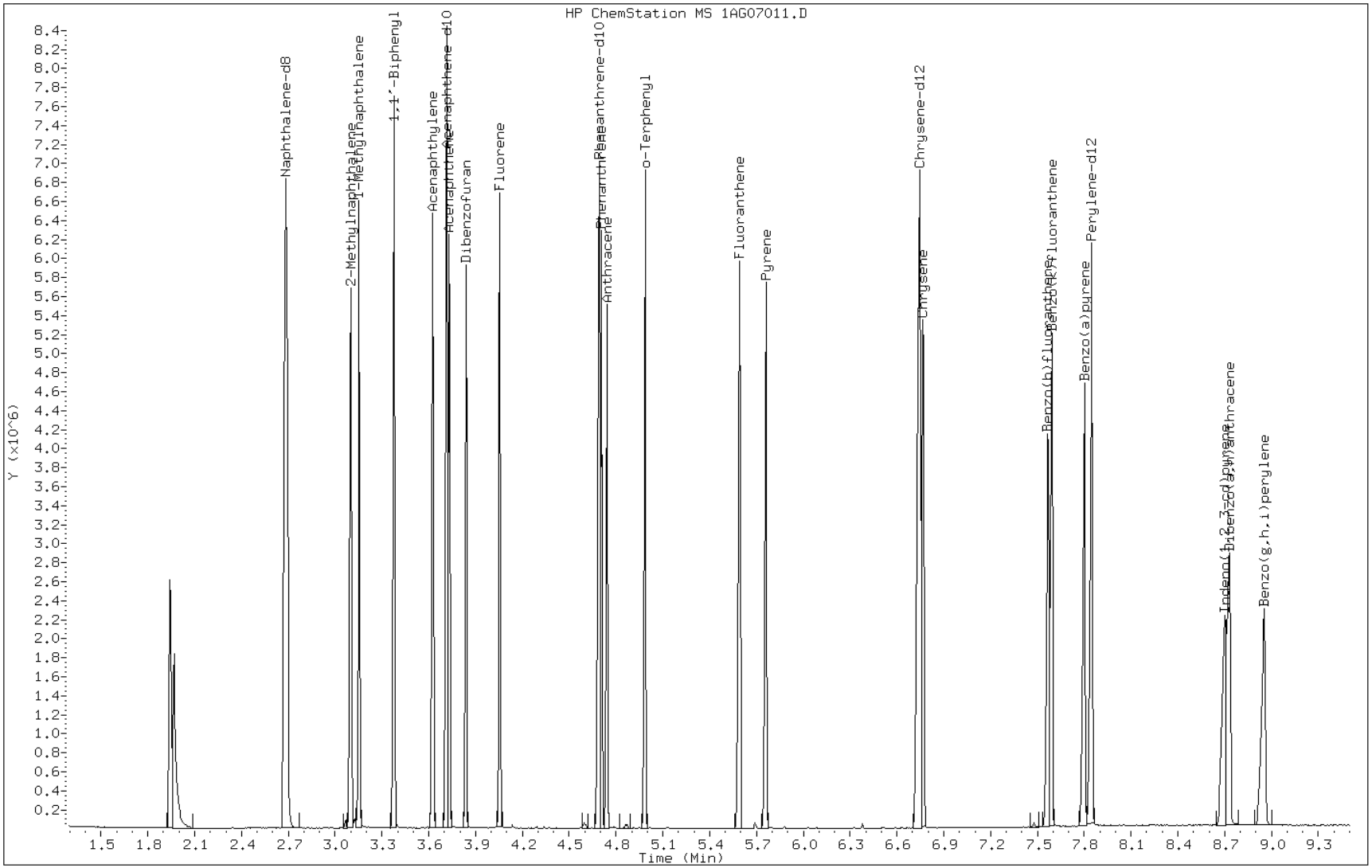
Date: 07-JUL-2013 15:31

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559464

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07012.D
Lab Smp Id: IC-1559465
Inj Date : 07-JUL-2013 15:46
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559465
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:31 Cal File: 1AG07011.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.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	2.683	2.683	(1.000)	2548509	40.0000	
* 7 Acenaphthene-d10	164	3.714	3.714	(1.000)	1323362	40.0000	
* 11 Phenanthrene-d10	188	4.691	4.691	(1.000)	2105253	40.0000	
$ 15 o-Terphenyl	230	4.985	4.985	(1.063)	1563245	50.0000	50.0568(A)
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	1888034	40.0000	
* 24 Perylene-d12	264	7.843	7.848	(1.000)	2055565	40.0000	
2 Naphthalene	128	2.693	2.693	(1.004)	2852835	50.0000	49.5451
3 2-Methylnaphthalene	141	3.099	3.099	(1.155)	1567778	50.0000	50.0316(A)
4 1-Methylnaphthalene	142	3.158	3.153	(1.177)	1822273	50.0000	50.0120(A)
5 1,1'-Biphenyl	154	3.377	3.377	(1.259)	2249022	50.0000	46.6217
6 Acenaphthylene	152	3.628	3.628	(0.977)	2885030	50.0000	49.9918
8 Acenaphthene	154	3.735	3.735	(1.006)	1543480	50.0000	49.9469
9 Dibenzofuran	168	3.842	3.836	(1.035)	2501371	50.0000	49.1864
10 Fluorene	166	4.056	4.055	(1.092)	2066554	50.0000	50.0021(A)
12 Phenanthrene	178	4.707	4.707	(1.003)	2590983	50.0000	50.0866(A)
13 Anthracene	178	4.745	4.739	(1.011)	2676534	50.0000	49.9984
16 Fluoranthene	202	5.594	5.589	(1.192)	3071278	50.0000	49.9572
17 Pyrene	202	5.765	5.760	(0.854)	3087188	50.0000	49.1166
18 Benzo(a)anthracene	228	6.737	6.732	(0.998)	2983331	50.0000	50.0356(A)
20 Chrysene	228	6.769	6.764	(1.003)	2548308	50.0000	49.8239
21 Benzo(b)fluoranthene	252	7.571	7.565	(0.965)	3015708	50.0000	51.5374(A)
22 Benzo(k)fluoranthene	252	7.597	7.587	(0.969)	2787317	50.0000	49.8623(H)
23 Benzo(a)pyrene	252	7.806	7.795	(0.995)	2737842	50.0000	50.5941(A)
25 Indeno(1,2,3-cd)pyrene	276	8.703	8.692	(1.110)	2595380	50.0000	55.0053(A)
26 Dibenzo(a,h)anthracene	278	8.735	8.719	(1.114)	2336050	50.0000	52.3631(A)
27 Benzo(g,h,i)perylene	276	8.965	8.944	(1.143)	2292969	50.0000	51.2557(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: 1AG07012.D

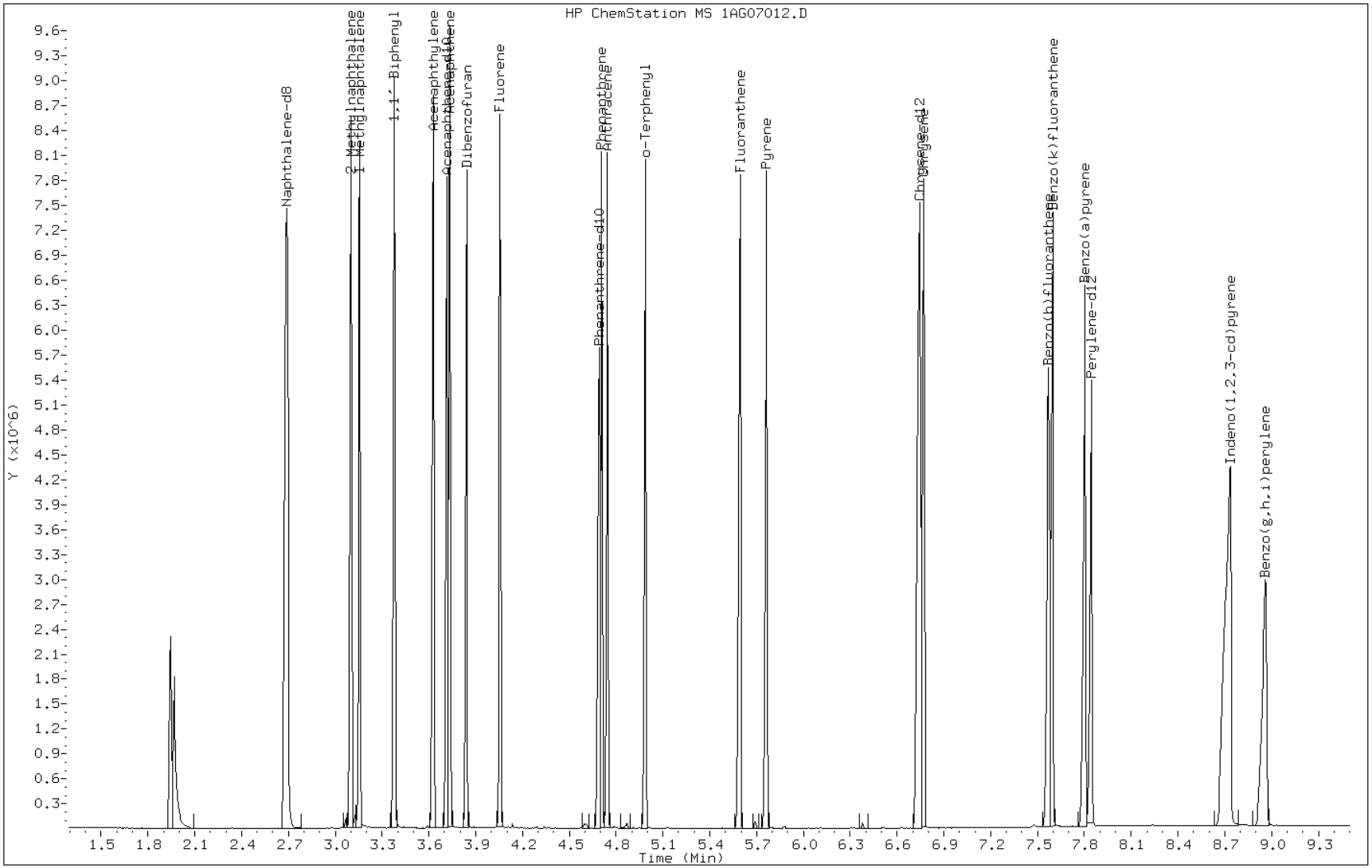
Date: 07-JUL-2013 15:46

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559465

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Lab Sample ID: ICV 660-138314/11 Calibration Date: 06/11/2013 16:33

Instrument ID: BSMA5973 Calib Start Date: 06/11/2013 14:27

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 06/11/2013 16:13

Lab File ID: 1AF11011.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.044	1.064	0.0000	2000	20.0	1.9	35.0
2-Methylnaphthalene	Qua	0.6256	0.6358	0.0000	2000	20.0	10.6	35.0
1-Methylnaphthalene	Qua	0.7367	0.7056	0.0000	2000	20.0	6.4	35.0
Acenaphthylene	Qua	2.304	2.306	0.0000	1000	20.0	9.2	35.0
Acenaphthene	Qua	1.210	1.194	0.0000	2000	20.0	8.8	35.0
Fluorene	Qua	1.605	1.628	0.0000	2000	20.0	11.1	35.0
Phenanthrene	Qua	1.233	1.198	0.0000	500	20.0	7.6	35.0
Anthracene	Qua	1.306	1.291	0.0000	200	20.0	7.3	35.0
Fluoranthene	Qua	1.482	1.470	0.0000	500	20.0	6.2	35.0
Pyrene	Ave	1.613	1.695	0.0000	500	20.0	5.1	35.0
Benzo[a]anthracene	Lin2	1.464	1.451	0.0000	200	20.0	7.4	35.0
Chrysene	Ave	1.310	1.379	0.0000	200	20.0	5.2	35.0
Benzo[b]fluoranthene	Ave	1.266	1.332	0.0000	200	20.0	5.2	35.0
Benzo[k]fluoranthene	Qua	1.332	1.320	0.0000	200	20.0	5.1	35.0
Benzo[a]pyrene	Ave	1.183	1.280	0.0000	200	20.0	8.2	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.109	0.0000	200	20.0	5.0	35.0
Dibenz(a,h)anthracene	Ave	1.047	1.119	0.0000	200	20.0	6.9	35.0
Benzo[g,h,i]perylene	Ave	1.125	1.201	0.0000	500	20.0	6.8	35.0
o-Terphenyl	Qua	0.7217	0.6770	0.0000	20.9	20.0	4.5	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11011.D
Lab Smp Id: ICV-1558374
Inj Date : 11-JUN-2013 16:33
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1558374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.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	2.704	2.703	(1.000)	4907724	40.0000	
* 7 Acenaphthene-d10	164	3.740	3.740	(1.000)	2403198	40.0000	
* 11 Phenanthrene-d10	188	4.712	4.712	(1.000)	3840938	40.0000	
$ 15 o-Terphenyl	230	5.017	5.017	(1.065)	1300167	20.9006	20.9005
* 19 Chrysene-d12	240	6.764	6.763	(1.000)	3418126	40.0000	
* 24 Perylene-d12	264	7.859	7.859	(1.000)	3927398	40.0000	
2 Naphthalene	128	2.714	2.714	(1.004)	2611765	20.3822	20.3822
3 2-Methylnaphthalene	141	3.120	3.120	(1.154)	1560271	22.1228	22.1227
4 1-Methylnaphthalene	142	3.179	3.179	(1.176)	1731459	21.2871	21.2870
6 Acenaphthylene	152	3.649	3.649	(0.976)	2770541	21.8371	21.8370
8 Acenaphthene	154	3.756	3.756	(1.004)	1434494	21.7538	21.7538
10 Fluorene	166	4.082	4.082	(1.091)	1956714	22.2291	22.2290
12 Phenanthrene	178	4.728	4.728	(1.003)	2300567	21.5160	21.5160
13 Anthracene	178	4.766	4.766	(1.011)	2479729	21.4632	21.4631
16 Fluoranthene	202	5.610	5.610	(1.190)	2823766	21.2446	21.2446
17 Pyrene	202	5.776	5.775	(0.854)	2897144	21.0232	21.0232
18 Benzo(a)anthracene	228	6.748	6.747	(0.998)	2479696	21.4704	21.4703

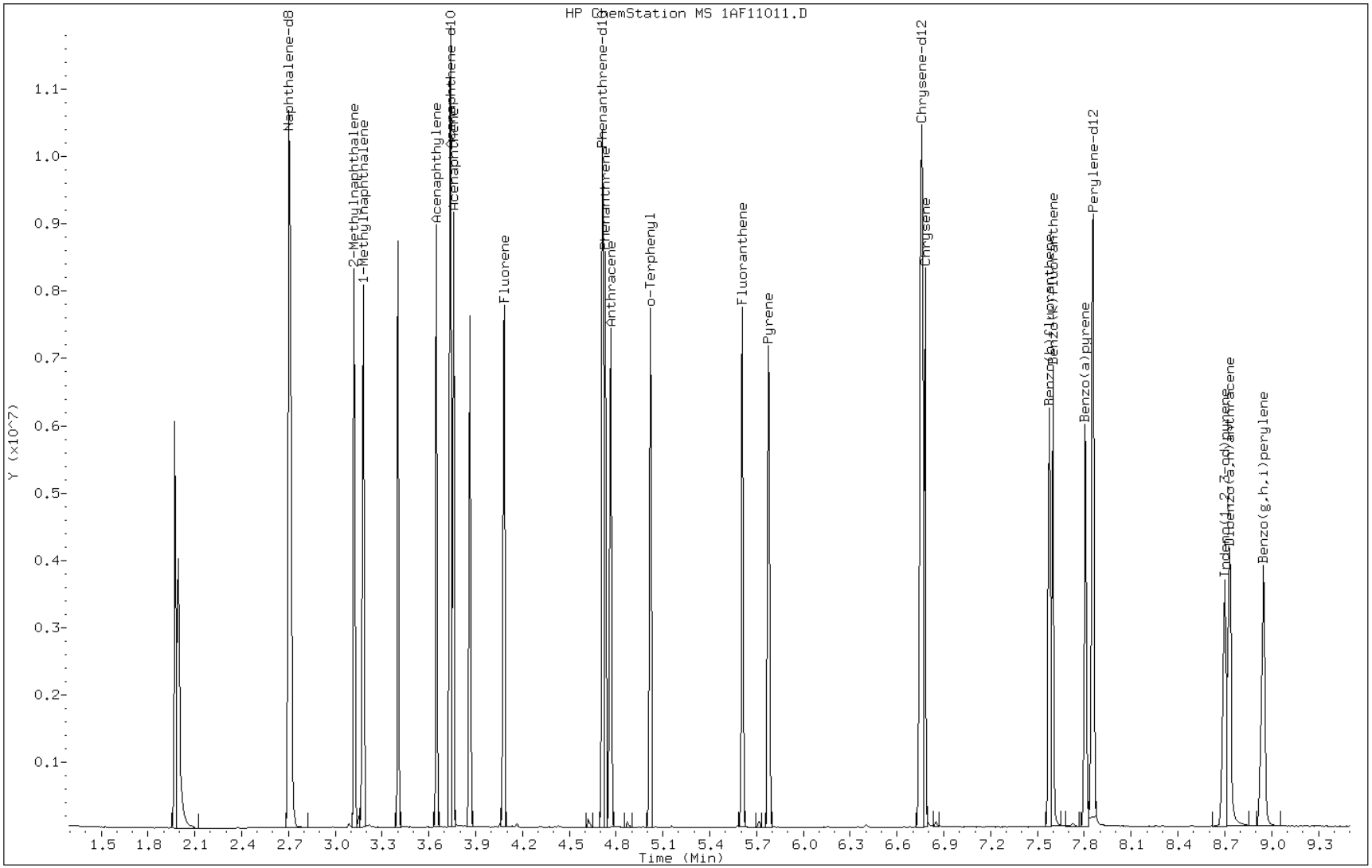
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
20 Chrysene	228	6.780	6.780	(1.002)	2356673	21.0493	21.0493
21 Benzo(b)fluoranthene	252	7.576	7.576	(0.964)	2614675	21.0347	21.0346
22 Benzo(k)fluoranthene	252	7.597	7.597	(0.967)	2592884	21.0215	21.0214
23 Benzo(a)pyrene	252	7.806	7.811	(0.993)	2513689	21.6378	21.6377
25 Indeno(1,2,3-cd)pyrene	276	8.703	8.703	(1.107)	2178133	21.0035	21.0034
26 Dibenzo(a,h)anthracene	278	8.730	8.735	(1.111)	2196754	21.3773	21.3773
27 Benzo(g,h,i)perylene	276	8.949	8.954	(1.139)	2359031	21.3625	21.3624

Data File: 1AF11011.D

Date: 11-JUN-2013 16:33

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1558374 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Lab Sample ID: CCVIS 660-139030/3 Calibration Date: 07/02/2013 11:29

Instrument ID: BSMA5973 Calib Start Date: 06/11/2013 14:27

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 06/11/2013 16:13

Lab File ID: 1AG02003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.044	0.9030	0.0000	2000	20.0	-13.5	20.0
2-Methylnaphthalene	Qua	0.6256	0.5480	0.0000	2000	20.0	-8.4	20.0
1-Methylnaphthalene	Qua	0.7367	0.6158	0.0000	2000	20.0	-10.8	20.0
Acenaphthylene	Qua	2.304	1.920	0.0000	1000	20.0	-14.6	20.0
Acenaphthene	Qua	1.210	1.028	0.0000	2000	20.0	-11.0	20.0
Fluorene	Qua	1.605	1.385	0.0000	2000	20.0	-10.6	20.0
Phenanthrene	Qua	1.233	1.045	0.0000	500	20.0	-10.0	20.0
Anthracene	Qua	1.306	1.118	0.0000	200	20.0	-10.9	20.0
Fluoranthene	Qua	1.482	1.292	0.0000	500	20.0	-10.0	20.0
Pyrene	Ave	1.613	1.439	0.0000	500	20.0	-10.7	20.0
Benzo[a]anthracene	Lin2	1.464	1.286	0.0000	200	20.0	-4.9	20.0
Chrysene	Ave	1.310	1.123	0.0000	200	20.0	-14.3	20.0
Benzo[b]fluoranthene	Ave	1.266	1.143	0.0000	200	20.0	-9.7	20.0
Benzo[k]fluoranthene	Qua	1.332	1.244	0.0000	200	20.0	-2.3	20.0
Benzo[a]pyrene	Ave	1.183	1.105	0.0000	200	20.0	-6.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.117	0.0000	200	20.0	5.8	20.0
Dibenz(a,h)anthracene	Ave	1.047	1.025	0.0000	200	20.0	-2.1	20.0
Benzo[g,h,i]perylene	Ave	1.125	1.077	0.0000	500	20.0	-4.3	20.0
o-Terphenyl	Qua	0.7217	0.6261	0.0000	18.9	20.0	-5.7	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 02-JUL-2013 11:29
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.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	2.683	2.683	(1.000)	3223741	40.0000	
* 7 Acenaphthene-d10	164	3.719	3.719	(1.000)	1665166	40.0000	
* 11 Phenanthrene-d10	188	4.697	4.697	(1.000)	2688412	40.0000	
$ 15 o-Terphenyl	230	4.996	4.996	(1.064)	841592	20.0000	18.8683
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	2408537	40.0000	
* 24 Perylene-d12	264	7.849	7.849	(1.000)	2656233	40.0000	
2 Naphthalene	128	2.699	2.699	(1.006)	1455510	20.0000	17.2922
3 2-Methylnaphthalene	141	3.105	3.105	(1.157)	883291	20.0000	18.3103
4 1-Methylnaphthalene	142	3.158	3.158	(1.177)	992610	20.0000	17.8367
6 Acenaphthylene	152	3.634	3.634	(0.977)	1598584	20.0000	17.0763
8 Acenaphthene	154	3.741	3.741	(1.006)	856260	20.0000	17.7993
10 Fluorene	166	4.061	4.061	(1.092)	1153229	20.0000	17.8856
12 Phenanthrene	178	4.713	4.713	(1.003)	1404938	20.0000	18.0078
13 Anthracene	178	4.745	4.745	(1.010)	1503238	20.0000	17.8144
16 Fluoranthene	202	5.594	5.594	(1.191)	1736221	20.0000	18.0064
17 Pyrene	202	5.765	5.765	(0.854)	1733455	20.0000	17.8515
18 Benzo(a)anthracene	228	6.738	6.738	(0.998)	1548754	20.0000	19.0198
20 Chrysene	228	6.764	6.764	(1.002)	1352369	20.0000	17.1422
21 Benzo(b)fluoranthene	252	7.571	7.571	(0.965)	1518162	20.0000	18.0582
22 Benzo(k)fluoranthene	252	7.592	7.592	(0.967)	1651660	20.0000	19.5368
23 Benzo(a)pyrene	252	7.801	7.801	(0.994)	1467848	20.0000	18.6819
25 Indeno(1,2,3-cd)pyrene	276	8.698	8.698	(1.108)	1483590	20.0000	21.1523
26 Dibenzo(a,h)anthracene	278	8.725	8.725	(1.112)	1361199	20.0000	19.5853
27 Benzo(g,h,i)perylene	276	8.949	8.949	(1.140)	1429733	20.0000	19.1430

Data File: 1AG02003.D

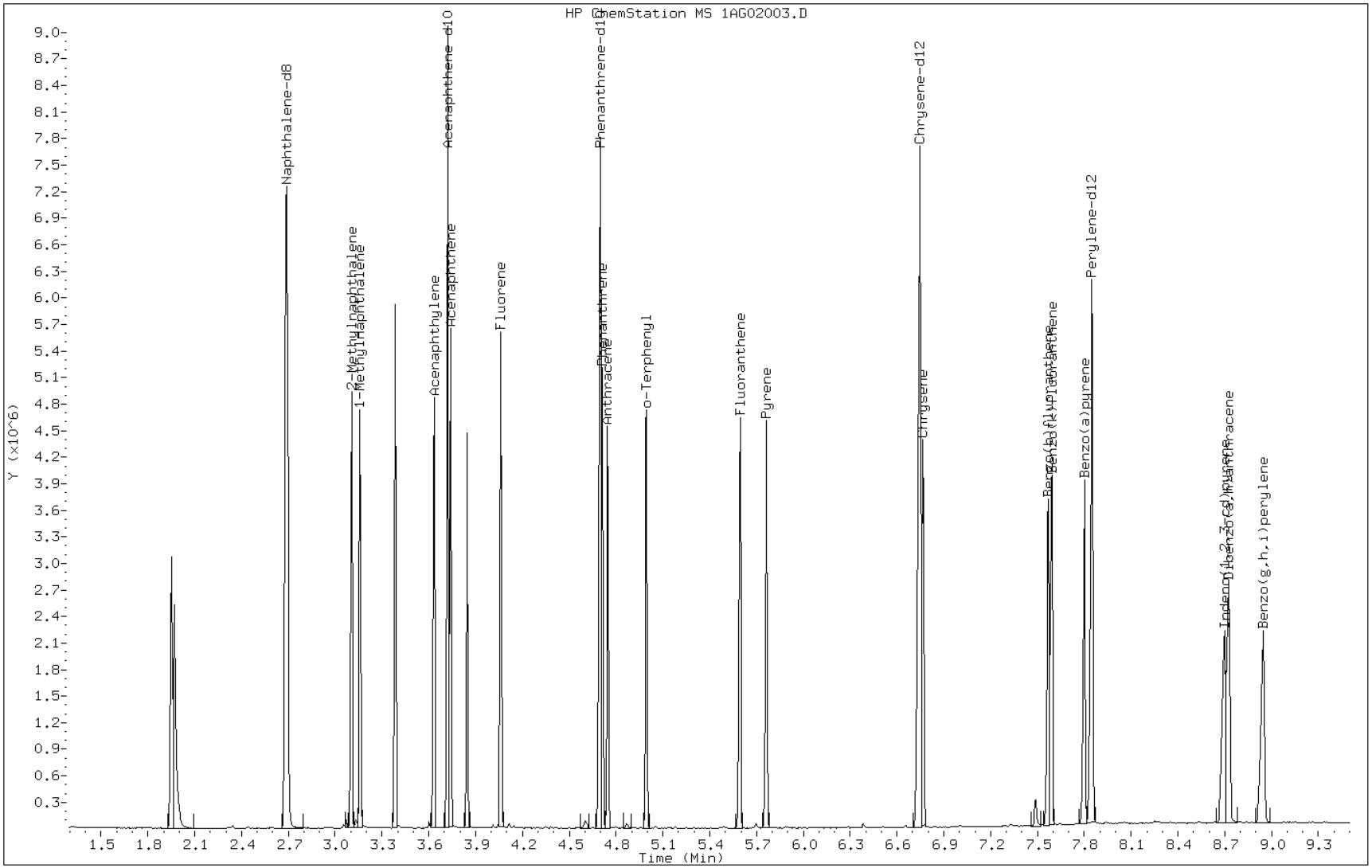
Date: 02-JUL-2013 11:29

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1559459

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Lab Sample ID: CCVIS 660-139084/3 Calibration Date: 07/03/2013 11:21

Instrument ID: BSMA5973 Calib Start Date: 06/11/2013 14:27

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 06/11/2013 16:13

Lab File ID: 1AG03003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.044	0.9236	0.0000	2000	20.0	-11.6	20.0
2-Methylnaphthalene	Qua	0.6256	0.5351	0.0000	2000	20.0	-11.1	20.0
1-Methylnaphthalene	Qua	0.7367	0.6205	0.0000	2000	20.0	-9.9	20.0
Acenaphthylene	Qua	2.304	1.926	0.0000	1000	20.0	-14.3	20.0
Acenaphthene	Qua	1.210	1.023	0.0000	2000	20.0	-11.6	20.0
Fluorene	Qua	1.605	1.351	0.0000	2000	20.0	-13.4	20.0
Phenanthrene	Qua	1.233	1.025	0.0000	500	20.0	-12.2	20.0
Anthracene	Qua	1.306	1.105	0.0000	200	20.0	-12.3	20.0
Fluoranthene	Qua	1.482	1.302	0.0000	500	20.0	-9.0	20.0
Pyrene	Ave	1.613	1.416	0.0000	500	20.0	-12.2	20.0
Benzo[a]anthracene	Lin2	1.464	1.320	0.0000	200	20.0	-2.4	20.0
Chrysene	Ave	1.310	1.138	0.0000	200	20.0	-13.2	20.0
Benzo[b]fluoranthene	Ave	1.266	1.172	0.0000	200	20.0	-7.4	20.0
Benzo[k]fluoranthene	Qua	1.332	1.104	0.0000	200	20.0	-15.4	20.0
Benzo[a]pyrene	Ave	1.183	1.069	0.0000	200	20.0	-9.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.066	0.0000	200	20.0	0.9	20.0
Dibenz(a,h)anthracene	Ave	1.047	0.9716	0.0000	200	20.0	-7.2	20.0
Benzo[g,h,i]perylene	Ave	1.125	1.012	0.0000	500	20.0	-10.0	20.0
o-Terphenyl	Qua	0.7217	0.6590	0.0000	20.2	20.0	0.9	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 03-JUL-2013 11:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.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

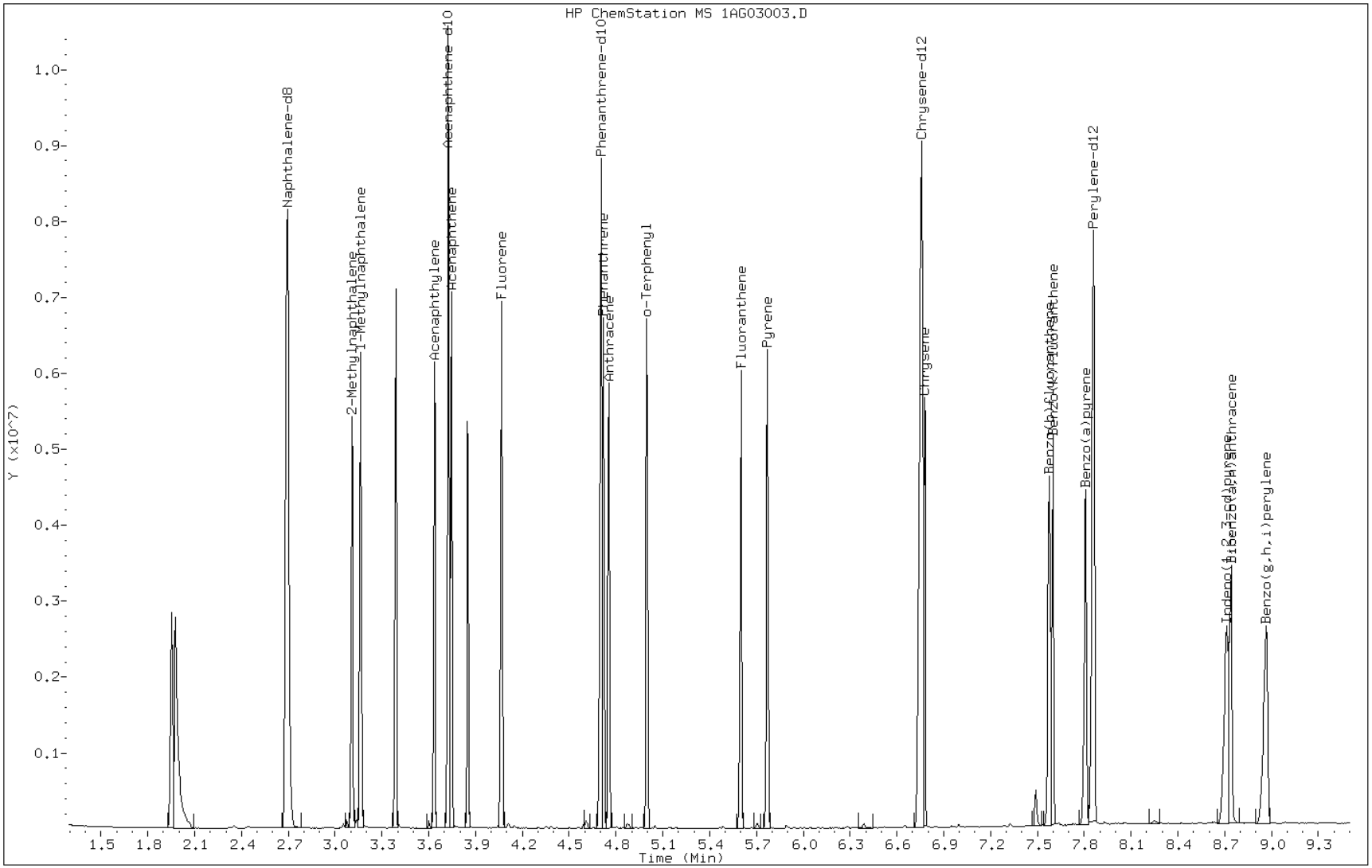
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.689	2.689	(1.000)	4148746	40.0000	
* 7 Acenaphthene-d10	164	3.725	3.725	(1.000)	2198267	40.0000	
* 11 Phenanthrene-d10	188	4.703	4.703	(1.000)	3490904	40.0000	
$ 15 o-Terphenyl	230	4.996	4.996	(1.062)	1150212	20.0000	20.1722
* 19 Chrysene-d12	240	6.759	6.759	(1.000)	3237759	40.0000	
* 24 Perylene-d12	264	7.860	7.860	(1.000)	3626470	40.0000	
2 Naphthalene	128	2.705	2.705	(1.006)	1915967	20.0000	17.6875
3 2-Methylnaphthalene	141	3.105	3.105	(1.155)	1109919	20.0000	17.7702
4 1-Methylnaphthalene	142	3.164	3.164	(1.177)	1287154	20.0000	18.0115
6 Acenaphthylene	152	3.634	3.634	(0.976)	2116962	20.0000	17.1468
8 Acenaphthene	154	3.746	3.746	(1.006)	1124925	20.0000	17.6852
10 Fluorene	166	4.067	4.067	(1.092)	1485385	20.0000	17.3134
12 Phenanthrene	178	4.719	4.719	(1.003)	1788223	20.0000	17.5505
13 Anthracene	178	4.756	4.756	(1.011)	1928187	20.0000	17.5375
16 Fluoranthene	202	5.600	5.600	(1.191)	2272966	20.0000	18.1930
17 Pyrene	202	5.771	5.771	(0.854)	2292586	20.0000	17.5629
18 Benzo(a)anthracene	228	6.743	6.743	(0.998)	2137488	20.0000	19.5296
20 Chrysene	228	6.781	6.781	(1.003)	1841534	20.0000	17.3644
21 Benzo(b)fluoranthene	252	7.577	7.577	(0.964)	2125563	20.0000	18.5187
22 Benzo(k)fluoranthene	252	7.598	7.598	(0.967)	2000968	20.0000	16.9157
23 Benzo(a)pyrene	252	7.812	7.812	(0.994)	1938222	20.0000	18.0686
25 Indeno(1,2,3-cd)pyrene	276	8.715	8.715	(1.109)	1932709	20.0000	20.1833
26 Dibenzo(a,h)anthracene	278	8.741	8.741	(1.112)	1761669	20.0000	18.5659
27 Benzo(g,h,i)perylene	276	8.966	8.966	(1.141)	1834934	20.0000	17.9952

Data File: 1AG03003.D

Date: 03-JUL-2013 11:21

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1559459 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Lab Sample ID: ICV 660-139145/14 Calibration Date: 07/07/2013 16:01

Instrument ID: BSMA5973 Calib Start Date: 07/07/2013 14:06

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 07/07/2013 15:46

Lab File ID: 1AG07013.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9038	0.9666	0.0000	21400	20000	6.9	35.0
2-Methylnaphthalene	Ave	0.5156	0.5611	0.0000	21800	20000	8.8	35.0
1-Methylnaphthalene	Ave	0.6021	0.6110	0.0000	20300	20000	1.5	35.0
Acenaphthylene	Ave	1.784	1.963	0.0000	22000	20000	10.0	35.0
Acenaphthene	Ave	0.9350	1.062	0.0000	22700	20000	13.6	35.0
Dibenzofuran	Ave	1.537	1.577		20500	20000	2.6	
Fluorene	Ave	1.251	1.374	0.0000	22000	20000	9.8	35.0
Phenanthrene	Ave	1.018	1.068	0.0000	21000	20000	4.9	35.0
Anthracene	Ave	1.062	1.132	0.0000	21300	20000	6.6	35.0
Fluoranthene	Ave	1.225	1.307	0.0000	21300	20000	6.7	35.0
Pyrene	Ave	1.332	1.422	0.0000	21400	20000	6.8	35.0
Benzo[a]anthracene	Lin1	1.390	1.314	0.0000	20600	20000	3.0	35.0
Chrysene	Ave	1.084	1.228	0.0000	22700	20000	13.3	35.0
Benzo[b]fluoranthene	Ave	1.139	1.255	0.0000	22000	20000	10.2	35.0
Benzo[k]fluoranthene	Ave	1.176	1.108	0.0000	18800	20000	-5.8	35.0
Benzo[a]pyrene	Ave	1.053	1.107	0.0000	21000	20000	5.1	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9182	0.9629	0.0000	21000	20000	4.9	35.0
Dibenz(a,h)anthracene	Ave	0.8681	0.9174	0.0000	21100	20000	5.7	35.0
Benzo[g,h,i]perylene	Ave	0.8705	0.9296	0.0000	21400	20000	6.8	35.0
o-Terphenyl	Ave	0.6078	0.6137	0.0000	20200	20000	1.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07013.D
Lab Smp Id: ICV-1558374
Inj Date : 07-JUL-2013 16:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1558374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.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	2.680	2.683	(1.000)	2624272	40.0000	
* 7 Acenaphthene-d10	164	3.711	3.714	(1.000)	1393027	40.0000	
* 11 Phenanthrene-d10	188	4.689	4.692	(1.000)	2208439	40.0000	
$ 15 o-Terphenyl	230	4.983	4.986	(1.063)	677642	20.1927	20.1926
* 19 Chrysene-d12	240	6.746	6.748	(1.000)	2029780	40.0000	
* 24 Perylene-d12	264	7.841	7.849	(1.000)	2228189	40.0000	
2 Naphthalene	128	2.691	2.694	(1.004)	1268251	21.3898	21.3898
3 2-Methylnaphthalene	141	3.097	3.100	(1.155)	736218	21.7637	21.7636
4 1-Methylnaphthalene	142	3.150	3.153	(1.175)	801754	20.2975	20.2975
5 1,1'-Biphenyl	154	3.375	3.378	(1.259)	982113	19.7712	19.7712
6 Acenaphthylene	152	3.626	3.629	(0.977)	1367360	22.0044	22.0043
8 Acenaphthene	154	3.733	3.735	(1.006)	739528	22.7103	22.7103
9 Dibenzofuran	168	3.840	3.837	(1.035)	1098272	20.5162	20.5161
10 Fluorene	166	4.053	4.056	(1.092)	956699	21.9581	21.9580
12 Phenanthrene	178	4.705	4.708	(1.003)	1178991	20.9760	20.9760
13 Anthracene	178	4.737	4.740	(1.010)	1249521	21.3189	21.3189
16 Fluoranthene	202	5.586	5.589	(1.191)	1443048	21.3361	21.3360

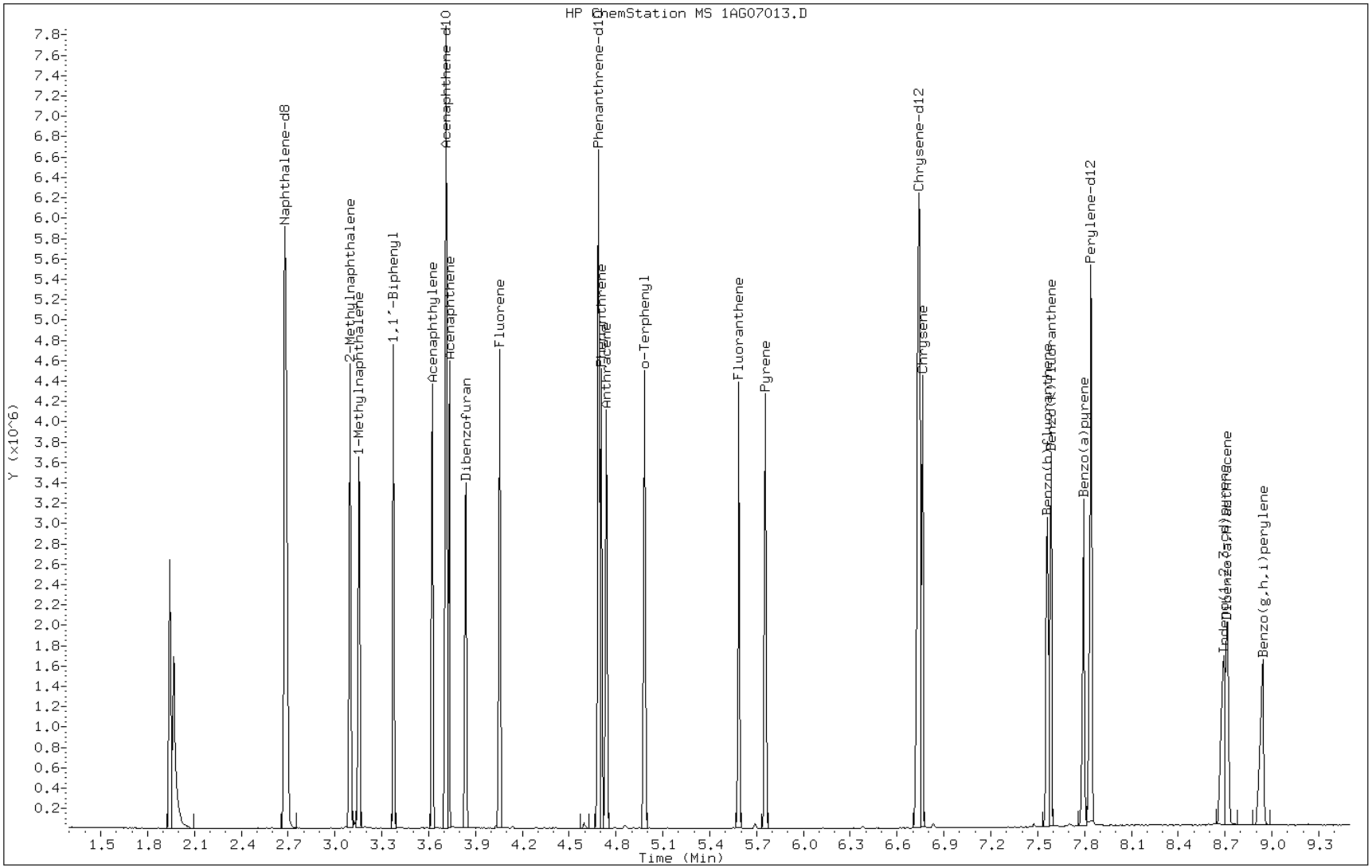
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Pyrene	202	5.757	5.760	(0.854)	1442889	21.3530	21.3530
18 Benzo(a)anthracene	228	6.730	6.732	(0.998)	1333833	20.5974	20.5974
20 Chrysene	228	6.762	6.764	(1.002)	1246020	22.6606	22.6606
21 Benzo(b)fluoranthene	252	7.563	7.566	(0.965)	1398389	22.0466	22.0465
22 Benzo(k)fluoranthene	252	7.584	7.587	(0.967)	1234469	18.8492	18.8492
23 Benzo(a)pyrene	252	7.793	7.795	(0.994)	1233362	21.0262	21.0262
25 Indeno(1,2,3-cd)pyrene	276	8.690	8.693	(1.108)	1072748	20.9740	20.9739
26 Dibenzo(a,h)anthracene	278	8.717	8.720	(1.112)	1022060	21.1349	21.1348
27 Benzo(g,h,i)perylene	276	8.941	8.944	(1.140)	1035665	21.3571	21.3571

Data File: 1AG07013.D

Date: 07-JUL-2013 16:01

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1558374 Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113.b\1AF11003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 11-JUN-2013 14:14
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

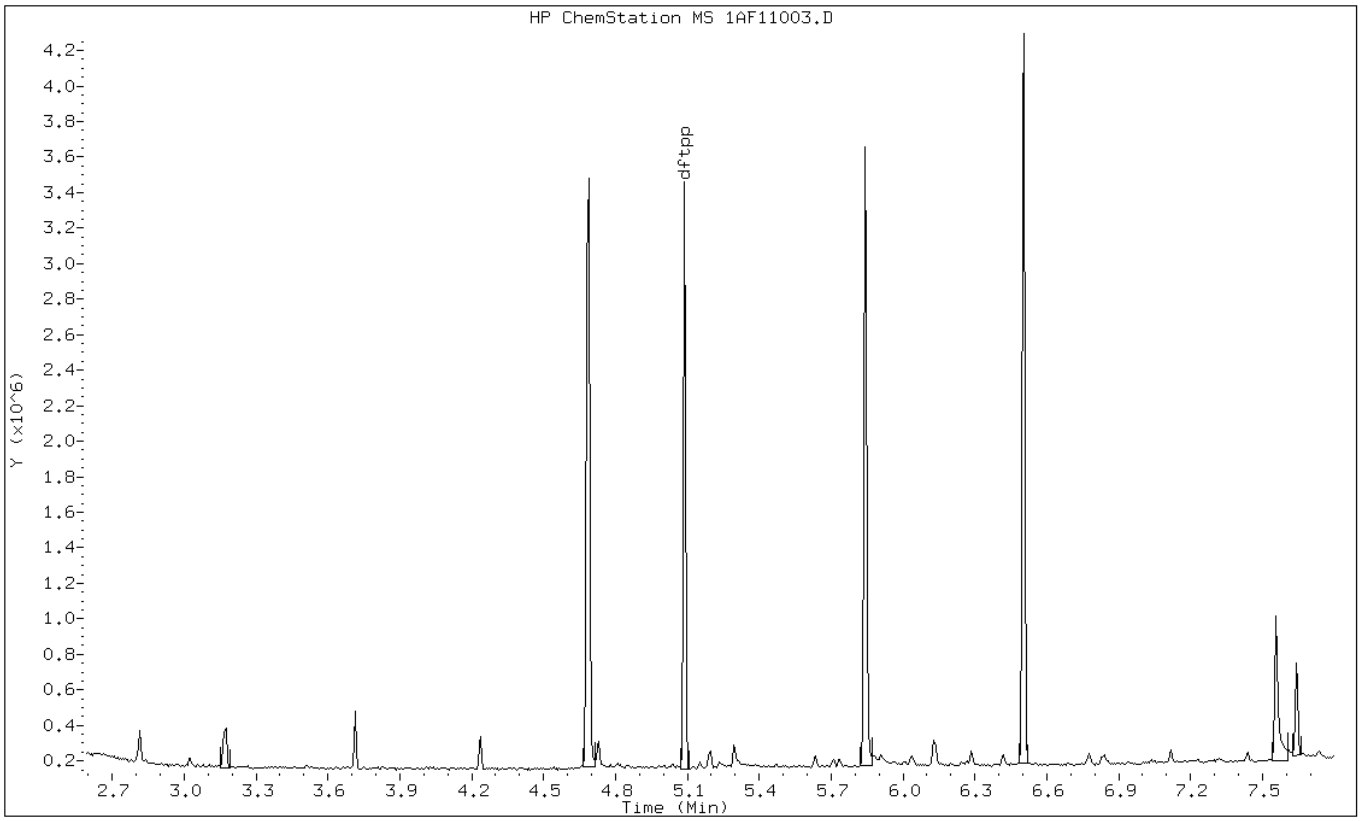
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.088	4.963	0.125	198	283072			50.00- 0.00	100.00
5.088	4.963	0.125	51	84832			10.00- 80.00	29.97
5.088	4.963	0.125	68	0	0.0	0.0	0.00- 2.00	0.00
5.088	4.963	0.125	69	79248			0.00- 0.00	28.00
5.088	4.963	0.125	70	1405			0.00- 2.00	1.77
5.088	4.963	0.125	127	109688			10.00- 80.00	38.75
5.088	4.963	0.125	197	0	0.0	0.0	0.00- 2.00	0.00
5.088	4.963	0.125	442	239360			50.00- 0.00	84.56
5.088	4.963	0.125	199	18416			5.00- 9.00	6.51
5.088	4.963	0.125	275	70272			10.00- 60.00	24.82
5.088	4.963	0.125	365	6804			1.00- 0.00	2.40
5.088	4.963	0.125	441	35088			0.01- 99.99	77.60
5.088	4.963	0.125	443	45216			15.00- 24.00	18.89

Data File: 1AF11003.D

Date: 11-JUN-2013 14:14

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 | Operator: SCC



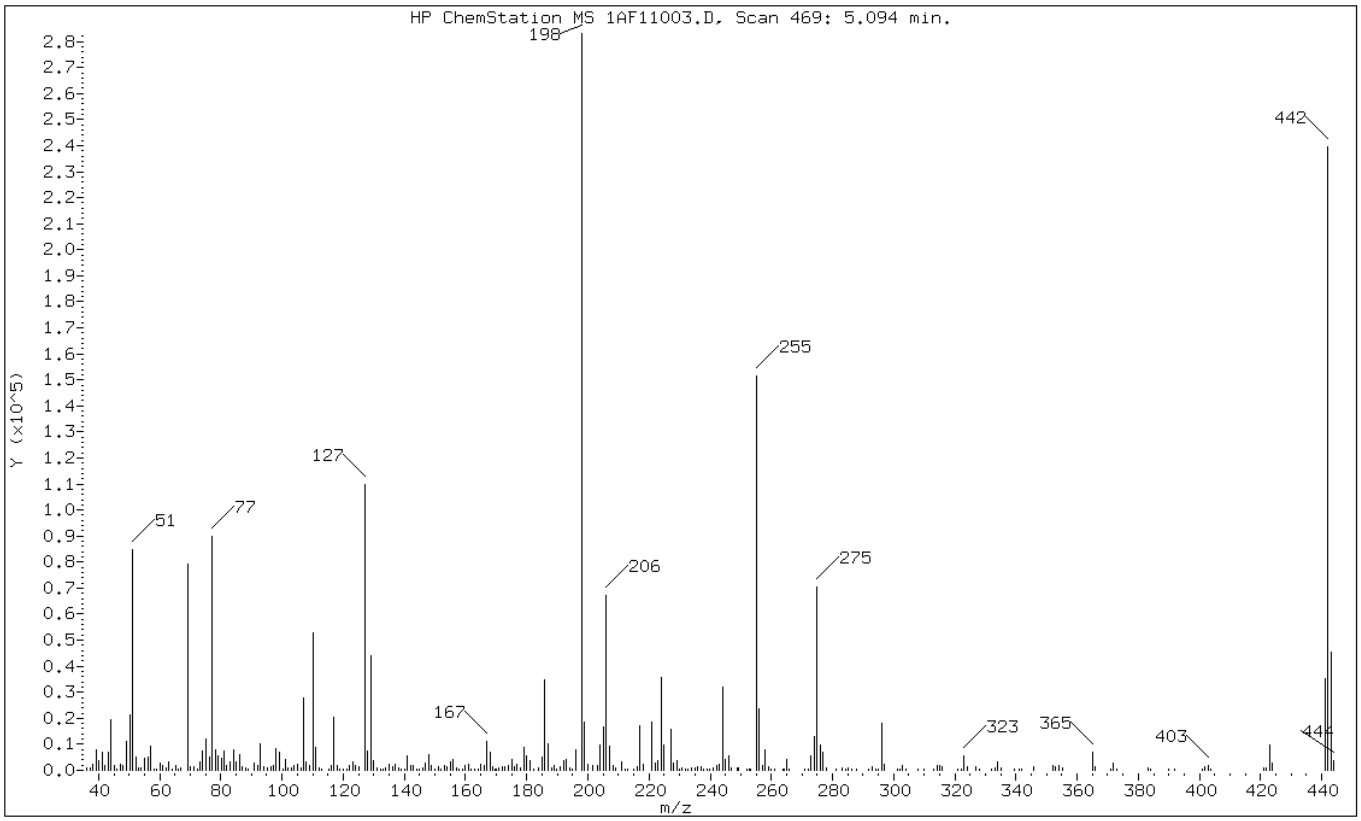
Data File: 1AF11003.D

Date: 11-JUN-2013 14:14

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.97
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	28.00
70	Less than 2.00% of mass 69	0.50 (1.77)
127	10.00 - 80.00% of mass 198	38.75
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	84.56
199	5.00 - 9.00% of mass 198	6.51
275	10.00 - 60.00% of mass 198	24.82
365	Greater than 1.00% of mass 198	2.40
441	Present, but less than mass 443	12.40
443	15.00 - 24.00% of mass 442	15.97 (18.89)

Data File: 1AF11003.D

Date: 11-JUN-2013 14:14

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11003.D
Spectrum: HP ChemStation MS 1AF11003.D, Scan 469: 5.094 min.
Location of Maximum: 198.00
Number of points: 288

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1082	111.00	8965	185.00	5144	271.00	468
37.10	842	112.00	1135	186.00	34584	272.10	528
38.10	2165	113.00	449	187.00	10093	273.00	5772
39.10	7874	115.10	635	188.20	1021	274.00	12797
40.10	3485	116.10	1673	188.90	1854	275.00	70272
41.10	6806	117.00	20416	189.80	573	276.00	9613
42.10	1937	118.10	1807	190.90	1272	277.00	6786
43.10	6800	119.00	473	192.10	3871	277.90	787
44.10	19280	120.00	426	193.00	4397	281.10	610
45.10	2027	121.20	436	194.10	950	283.10	1126
46.00	559	121.90	1977	195.00	679	284.20	379
47.10	2404	123.00	3085	196.00	7879	285.10	1146
48.10	1678	124.00	1824	198.00	283072	286.10	447
49.10	11325	125.00	1337	199.00	18416	287.70	280
50.10	21352	127.00	109688	200.00	2412	292.00	309
51.10	84832	128.00	7360	201.50	1843	293.00	1473
52.10	4906	129.00	43784	203.00	1630	294.00	316
53.10	882	130.00	3930	204.00	9704	294.90	321
54.00	767	131.00	818	205.00	16888	296.00	18208
55.10	4472	132.10	429	206.00	66960	297.00	2241
56.10	4975	133.00	492	207.00	9084	301.10	308
57.10	9479	134.00	1147	208.10	1810	301.90	338
58.10	558	135.00	2431	208.90	924	303.00	2040
59.10	648	136.00	1505	211.00	3149	304.20	509
60.10	2791	137.10	2210	212.10	549	308.00	345
61.10	2016	138.20	812	213.00	424	310.10	399
62.20	1020	139.10	667	214.80	619	313.10	458
63.00	3416	140.10	627	215.10	627	314.10	1682
64.00	492	141.00	5724	216.10	1579	315.00	1980
65.10	1917	142.10	1678	216.90	17032	316.00	1559
66.10	507	143.00	1792	218.00	2454	321.10	430
67.00	960	143.90	376	221.00	18408	322.00	343
69.00	79248	144.90	474	221.90	2968	323.10	5599
70.10	1405	146.20	926	223.00	3672	324.00	1504
71.10	1576	147.00	2656	224.00	35624	327.00	1257
72.20	442	148.00	5820	225.00	9522	327.90	579
73.10	3402	148.90	1710	227.00	15875	332.00	441
74.10	7242	149.80	489	228.00	2646	333.00	996
75.10	11859	151.10	1279	229.00	3907	334.00	3296
76.10	4940	152.10	612	230.00	571	335.00	952

77.10	89880	153.10	1700	230.90	1071	339.30	317
78.10	7766	154.00	1445	232.10	387	341.10	665
79.10	5778	155.00	3082	232.90	305	341.90	321
80.10	4675	156.00	4189	234.00	716	345.90	1340
81.00	7204	157.00	924	235.00	1141	352.00	2001
82.00	1795	158.00	568	236.00	1197	353.00	1236
83.10	3410	159.10	553	237.00	1387	354.10	1875
84.00	7820	160.00	1995	237.70	369	355.10	703
85.10	3458	161.00	2102	239.10	666	365.00	6804
86.00	5941	161.90	608	239.90	405	366.00	1308
87.10	1427	162.80	400	241.00	1029	371.10	514
88.00	793	163.10	315	242.00	2015	371.90	2796
88.90	351	164.20	537	243.00	2182	372.90	471
91.00	2812	165.00	2420	244.00	31960	383.10	837
92.10	1877	166.10	1840	245.10	4273	384.00	355
93.00	10403	167.00	11027	246.00	5757	390.00	413
94.10	1447	168.00	6747	246.90	1016	391.90	303
95.10	928	169.00	1444	248.90	1085	400.80	329
96.20	1456	169.80	343	249.10	1097	401.90	1380
97.20	1674	170.10	330	251.90	335	402.90	2006
98.10	8401	171.00	914	253.00	643	403.90	657
99.00	7172	172.10	1359	253.20	652	421.00	1153
100.20	502	173.00	1586	255.00	151616	421.90	941
101.00	4037	174.00	1808	256.00	23472	422.90	9853
101.90	698	175.00	4285	257.00	1860	424.00	2631
103.00	986	176.10	1454	258.00	7758	441.00	35088
104.00	2050	176.90	2169	259.10	1540	442.00	239360
105.00	2340	177.90	838	260.00	543	443.00	45216
106.10	985	179.00	8893	261.00	494	443.90	3886
107.00	27752	180.00	5732	263.70	349		
108.00	3452	181.10	3695	264.20	361		
109.10	1642	182.20	395	265.00	4177		
110.00	52936	184.00	698	265.90	525		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 02-JUL-2013 11:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 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		
5.061	4.963	0.098	198	197760			50.00- 0.00	100.00
5.061	4.963	0.098	51	62264			10.00- 80.00	31.48
5.061	4.963	0.098	68	0	0.0	0.0	0.00- 2.00	0.00
5.061	4.963	0.098	69	59544			0.00- 0.00	30.11
5.061	4.963	0.098	70	572			0.00- 2.00	0.96
5.061	4.963	0.098	127	82720			10.00- 80.00	41.83
5.061	4.963	0.098	197	0	0.0	0.0	0.00- 2.00	0.00
5.061	4.963	0.098	442	180864			50.00- 0.00	91.46
5.061	4.963	0.098	199	15337			5.00- 9.00	7.76
5.061	4.963	0.098	275	48568			10.00- 60.00	24.56
5.061	4.963	0.098	365	5504			1.00- 0.00	2.78
5.061	4.963	0.098	441	26344			0.01- 99.99	75.08
5.061	4.963	0.098	443	35088			15.00- 24.00	19.40

Data File: 1AG02002.D

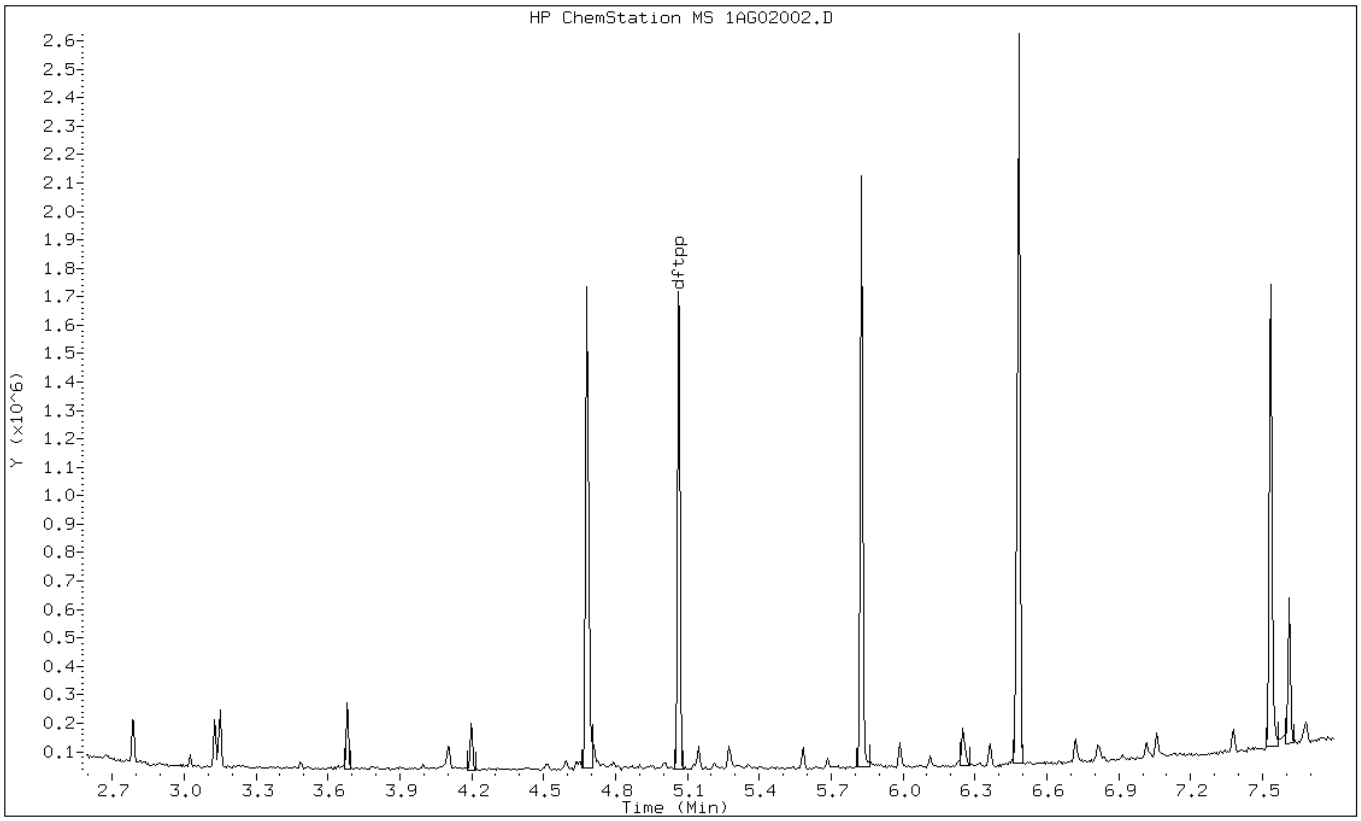
Date: 02-JUL-2013 11:16

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



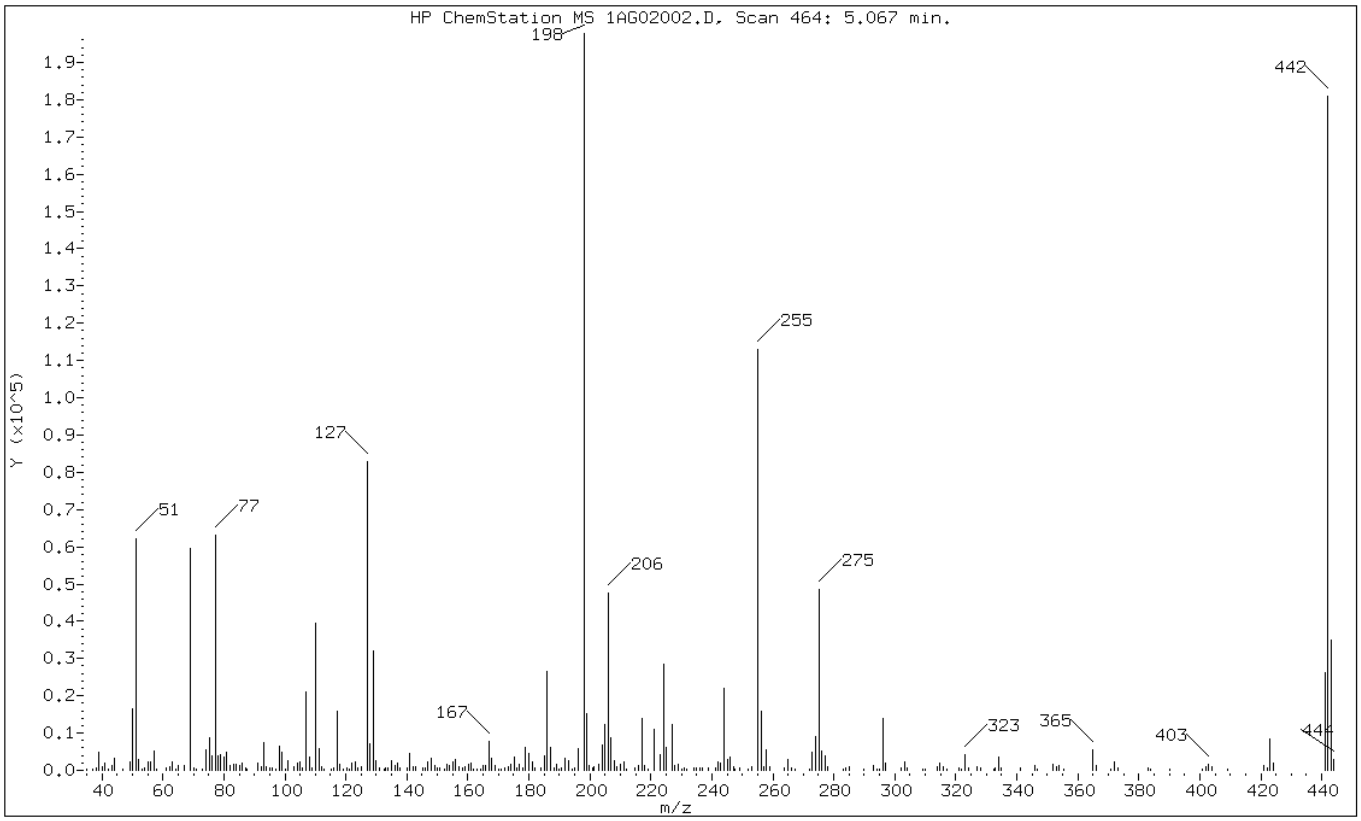
Data File: 1AG02002.D

Date: 02-JUL-2013 11:16

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 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	31.48
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	30.11
70	Less than 2.00% of mass 69	0.29 (0.96)
127	10.00 - 80.00% of mass 198	41.83
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	91.46
199	5.00 - 9.00% of mass 198	7.76
275	10.00 - 60.00% of mass 198	24.56
365	Greater than 1.00% of mass 198	2.78
441	Present, but less than mass 443	13.32
443	15.00 - 24.00% of mass 442	17.74 (19.40)

Data File: 1AG02002.D

Date: 02-JUL-2013 11:16

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02002.D
Spectrum: HP ChemStation MS 1AG02002.D, Scan 464: 5.067 min.
Location of Maximum: 198.00
Number of points: 263

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	267	113.00	354	183.90	528	266.00	737
37.10	344	115.30	264	185.10	4034	267.40	315
38.20	639	116.00	739	186.00	26400	272.10	370
39.10	4871	117.00	15910	187.00	6044	273.00	4814
40.10	1016	118.00	1491	188.20	767	274.10	9004
41.10	1915	119.00	327	189.00	1582	275.10	48568
42.30	406	120.20	496	189.90	345	276.00	5202
43.10	1148	121.20	439	190.80	674	277.00	3837
44.00	3245	122.10	1901	192.00	3179	278.00	960
47.00	419	123.00	2248	193.20	2688	283.20	352
49.10	2332	123.90	774	194.10	414	283.80	504
50.10	16568	125.00	1101	195.10	695	285.10	949
51.10	62264	127.00	82720	196.10	5691	290.00	320
52.10	2768	128.00	7216	198.00	197760	292.90	1173
53.00	270	129.00	31984	199.00	15337	294.00	325
53.90	524	130.00	2491	199.90	1155	295.10	479
55.20	2200	131.10	610	200.90	576	296.00	13889
56.00	2326	132.40	317	201.50	1044	297.00	2066
57.10	5167	133.10	635	203.10	1512	302.10	498
58.00	433	133.80	682	204.10	6759	303.10	2193
61.10	764	135.10	2567	205.00	12332	304.10	509
62.10	880	136.10	1203	206.10	47432	309.00	276
63.10	2295	137.10	1971	207.00	8633	310.10	464
64.10	458	137.80	487	207.90	2531	314.10	860
65.10	1355	140.00	698	209.00	883	314.90	1975
67.10	1196	141.00	4454	210.10	1570	315.90	815
69.00	59544	142.00	1119	211.10	2377	316.90	276
70.10	572	143.00	955	212.10	313	321.10	645
71.10	344	145.20	627	214.90	497	321.90	332
73.00	471	145.90	798	216.10	1217	323.00	4362
74.10	5410	147.00	2127	217.00	13877	324.10	743
75.10	8608	148.00	3091	218.00	1376	327.10	836
76.10	3774	149.00	1190	219.00	300	328.00	773
77.10	63256	150.10	556	221.00	11137	332.30	355
78.10	3881	150.90	702	223.10	4261	333.00	546
79.00	4305	152.20	333	224.10	28432	334.10	3407
80.00	3705	153.00	1521	225.00	6256	334.90	568
81.00	4771	153.90	1326	227.00	12207	341.10	611
82.10	1246	155.10	2279	227.90	1185	346.00	1267
83.10	1565	156.00	2986	229.10	1767	346.80	361

84.00	1513	157.10	1004	230.10	457	352.00	1622
85.10	1433	158.10	574	231.00	712	353.10	866
86.00	2036	158.90	821	231.90	363	354.00	1231
87.00	528	160.10	1565	234.00	765	355.30	394
87.70	335	161.10	1944	235.00	765	365.00	5504
91.00	1882	161.70	467	235.90	535	366.10	1214
92.10	885	163.10	271	237.00	644	370.80	252
93.00	7454	164.20	286	239.00	510	372.10	2265
94.00	896	165.00	1301	241.10	738	373.10	664
95.20	625	165.90	1376	242.10	2136	383.10	572
95.90	509	167.10	7689	243.00	1972	383.90	324
97.00	473	167.90	3170	244.10	21856	390.00	314
98.10	6485	169.00	1201	245.10	2861	401.00	336
99.10	4945	170.00	453	246.00	3706	401.90	880
100.00	480	171.10	482	247.00	844	403.00	1590
101.00	2492	172.10	504	247.70	428	403.90	810
103.00	989	173.10	949	249.10	671	409.10	277
104.00	1919	174.00	1504	251.90	317	421.00	1369
105.10	2319	175.10	3551	253.00	1002	422.00	677
105.90	649	176.00	777	255.00	112808	423.00	8562
107.10	20960	177.00	1573	256.10	15927	424.00	1859
108.00	3440	177.90	719	256.90	962	441.00	26344
109.00	727	179.00	6077	258.00	5629	442.00	180864
110.00	39464	180.00	4545	259.00	1083	443.00	35088
111.10	5801	181.00	2316	263.90	578	443.90	2801
112.10	951	182.00	640	265.10	2754		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-JUL-2013 11:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.064	4.963	0.101	198	276448			50.00- 0.00	100.00
5.064	4.963	0.101	51	113256			10.00- 80.00	40.97
5.064	4.963	0.101	68	0	0.0	0.0	0.00- 2.00	0.00
5.064	4.963	0.101	69	103700			0.00- 0.00	37.51
5.064	4.963	0.101	70	886			0.00- 2.00	0.85
5.064	4.963	0.101	127	122748			10.00- 80.00	44.40
5.064	4.963	0.101	197	0	0.0	0.0	0.00- 2.00	0.00
5.064	4.963	0.101	442	196288			50.00- 0.00	71.00
5.064	4.963	0.101	199	18026			5.00- 9.00	6.52
5.064	4.963	0.101	275	63940			10.00- 60.00	23.13
5.064	4.963	0.101	365	6724			1.00- 0.00	2.43
5.064	4.963	0.101	441	27256			0.01- 99.99	75.79
5.064	4.963	0.101	443	35964			15.00- 24.00	18.32

Data File: 1AG03002.D

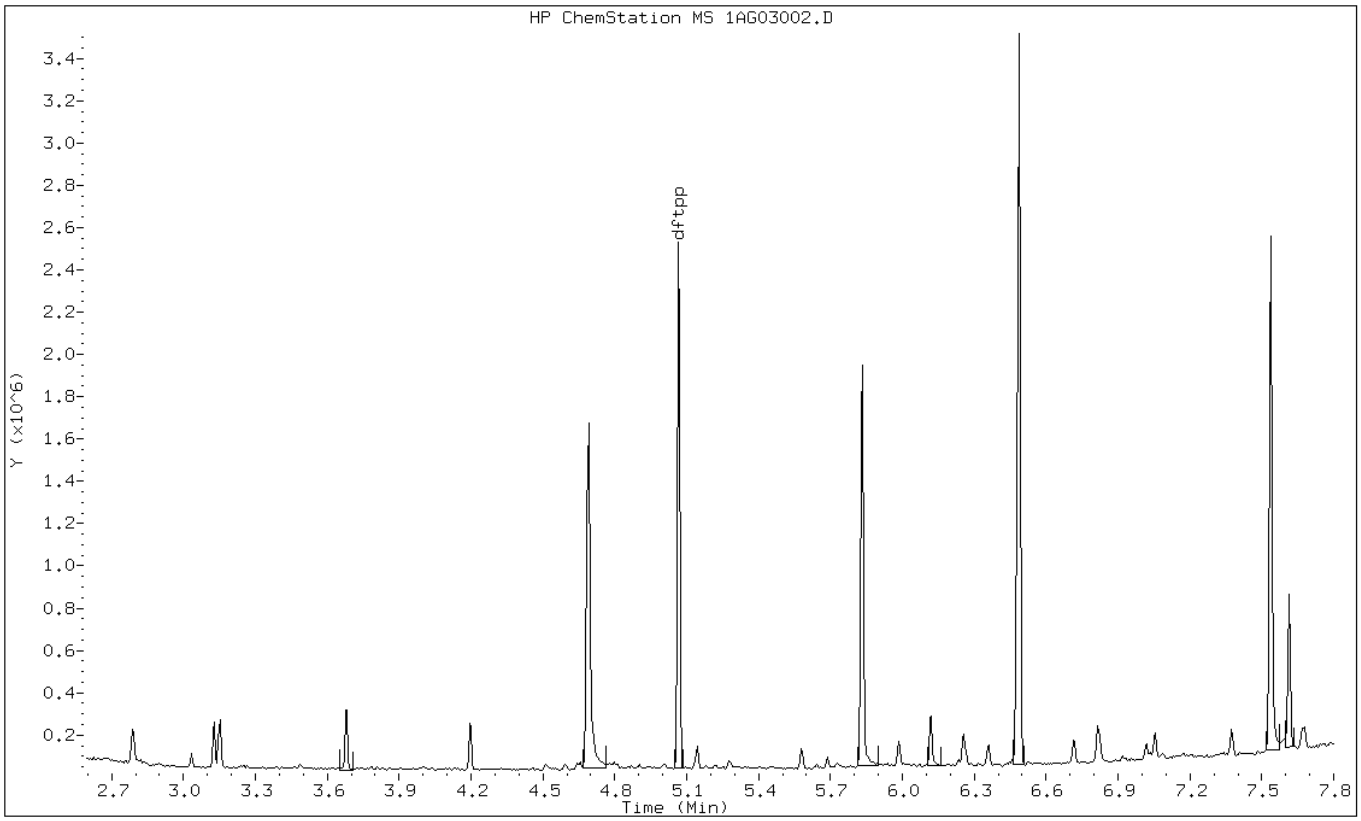
Date: 03-JUL-2013 11:08

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



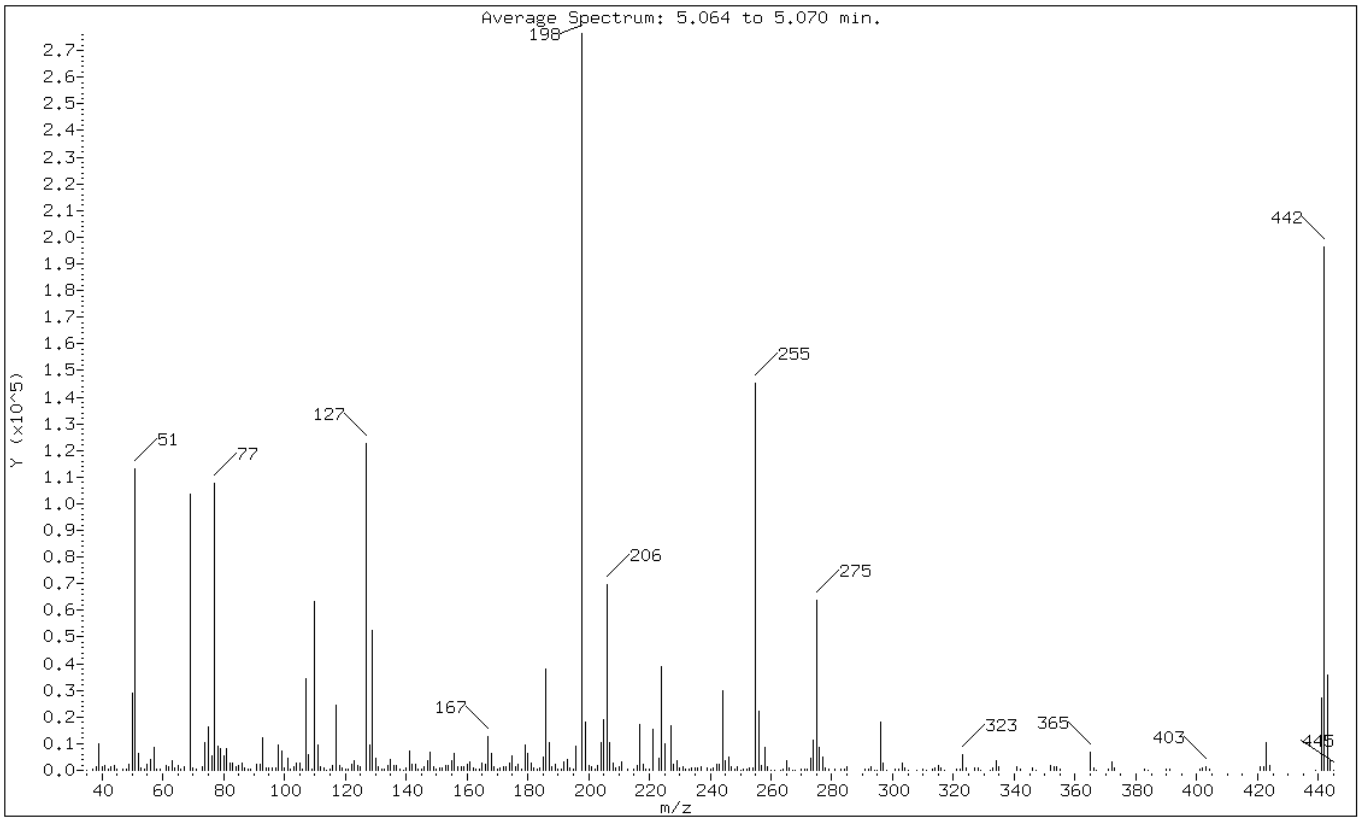
Data File: 1AG03002.D

Date: 03-JUL-2013 11:08

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 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	40.97
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	37.51
70	Less than 2.00% of mass 69	0.32 (0.85)
127	10.00 - 80.00% of mass 198	44.40
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	71.00
199	5.00 - 9.00% of mass 198	6.52
275	10.00 - 60.00% of mass 198	23.13
365	Greater than 1.00% of mass 198	2.43
441	Present, but less than mass 443	9.86
443	15.00 - 24.00% of mass 442	13.01 (18.32)

Data File: 1AG03002.D

Date: 03-JUL-2013 11:08

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03002.D
Spectrum: Average Spectrum: 5.064 to 5.070 min.
Location of Maximum: 198.00
Number of points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	155	116.00	1710	192.00	3000	275.00	63936
37.00	677	117.00	24424	193.00	3890	276.00	8814
38.00	1401	118.00	2029	194.00	929	277.00	4940
39.00	9765	119.00	813	195.00	260	278.00	1051
40.00	1287	120.00	431	196.00	8868	279.00	301
41.00	1801	121.00	583	198.00	276416	281.00	321
42.00	620	122.00	2166	199.00	18024	283.00	619
43.00	1507	123.00	3519	200.00	1613	284.00	342
44.00	1949	124.00	1944	201.00	1387	285.00	1396
45.00	408	125.00	1573	202.00	229	291.00	289
47.00	582	127.00	122744	203.00	1894	292.00	341
48.00	306	128.00	9416	204.00	10438	293.00	1225
49.00	2398	129.00	52400	205.00	18936	294.00	198
50.00	28856	130.00	4419	206.00	69624	295.00	214
51.00	113256	131.00	1225	207.00	10212	296.00	17976
52.00	6277	132.00	546	208.00	2710	297.00	2626
53.00	693	133.00	395	209.00	869	298.00	177
54.00	381	134.00	1901	210.00	1372	301.00	294
55.00	2388	135.00	4275	211.00	3174	302.00	383
56.00	4215	136.00	1603	213.00	233	303.00	2566
57.00	8534	137.00	1778	215.00	655	304.00	750
58.00	250	138.00	555	216.00	1723	305.00	208
59.00	379	139.00	207	217.00	17224	308.00	153
61.00	1803	140.00	693	218.00	2119	310.00	360
62.00	1484	141.00	7023	219.00	431	311.00	130
63.00	3820	142.00	2136	220.00	318	313.00	274
64.00	686	143.00	2095	221.00	15188	314.00	992
65.00	1872	144.00	522	223.00	4615	315.00	1766
66.00	404	145.00	503	224.00	39128	316.00	1009
67.00	1162	146.00	1180	225.00	9933	317.00	219
69.00	103696	147.00	3818	227.00	16888	321.00	443
70.00	886	148.00	6792	228.00	2288	322.00	324
71.00	570	149.00	1514	229.00	3447	323.00	5791
73.00	1401	150.00	660	230.00	701	324.00	836
74.00	10477	151.00	1118	231.00	1482	327.00	850
75.00	16282	152.00	873	232.00	375	328.00	727
76.00	5622	153.00	1944	233.00	424	329.00	132
77.00	107448	154.00	1637	234.00	945	332.00	180
78.00	8924	155.00	3665	235.00	1119	333.00	836
79.00	8328	156.00	6198	236.00	1130	334.00	3840

80.00	5471	157.00	1294	237.00	1195	335.00	1264
81.00	8224	158.00	1227	239.00	803	341.00	1198
82.00	2499	159.00	1140	240.00	619	342.00	343
83.00	2803	160.00	2199	241.00	916	346.00	806
84.00	1253	161.00	3231	242.00	2428	347.00	160
85.00	1649	162.00	1041	243.00	2269	352.00	1632
86.00	2874	163.00	475	244.00	29912	353.00	1164
87.00	1084	164.00	388	245.00	3403	354.00	1475
88.00	411	165.00	2787	246.00	5017	355.00	366
89.00	339	166.00	2483	247.00	1276	365.00	6724
91.00	2401	167.00	12721	248.00	366	366.00	1059
92.00	2062	168.00	6367	249.00	1170	367.00	129
93.00	12059	169.00	1202	250.00	222	371.00	366
94.00	864	170.00	515	251.00	503	372.00	2961
95.00	777	171.00	739	252.00	244	373.00	875
96.00	687	172.00	1414	253.00	914	383.00	478
97.00	864	173.00	1458	254.00	1007	384.00	132
98.00	9426	174.00	2910	255.00	145408	390.00	312
99.00	7219	175.00	5450	256.00	22280	391.00	316
100.00	952	176.00	1247	257.00	1721	401.00	285
101.00	4343	177.00	2081	258.00	8468	402.00	1063
102.00	325	178.00	574	259.00	1275	403.00	1372
103.00	1444	179.00	9629	260.00	143	404.00	424
104.00	2719	180.00	6518	261.00	165	421.00	1256
105.00	2771	181.00	2713	263.00	183	422.00	1492
106.00	331	182.00	726	264.00	386	423.00	10349
107.00	34496	183.00	565	265.00	3534	424.00	1687
108.00	6016	184.00	981	266.00	882	439.00	182
109.00	612	185.00	5116	267.00	218	441.00	27256
110.00	63560	186.00	37912	268.00	140	442.00	196288
111.00	9657	187.00	10473	270.00	346	443.00	35960
112.00	1320	188.00	1245	271.00	623	444.00	3822
113.00	681	189.00	2279	272.00	274	445.00	162
114.00	140	190.00	640	273.00	4568		
115.00	608	191.00	646	274.00	11465		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JUL-2013 13:53
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

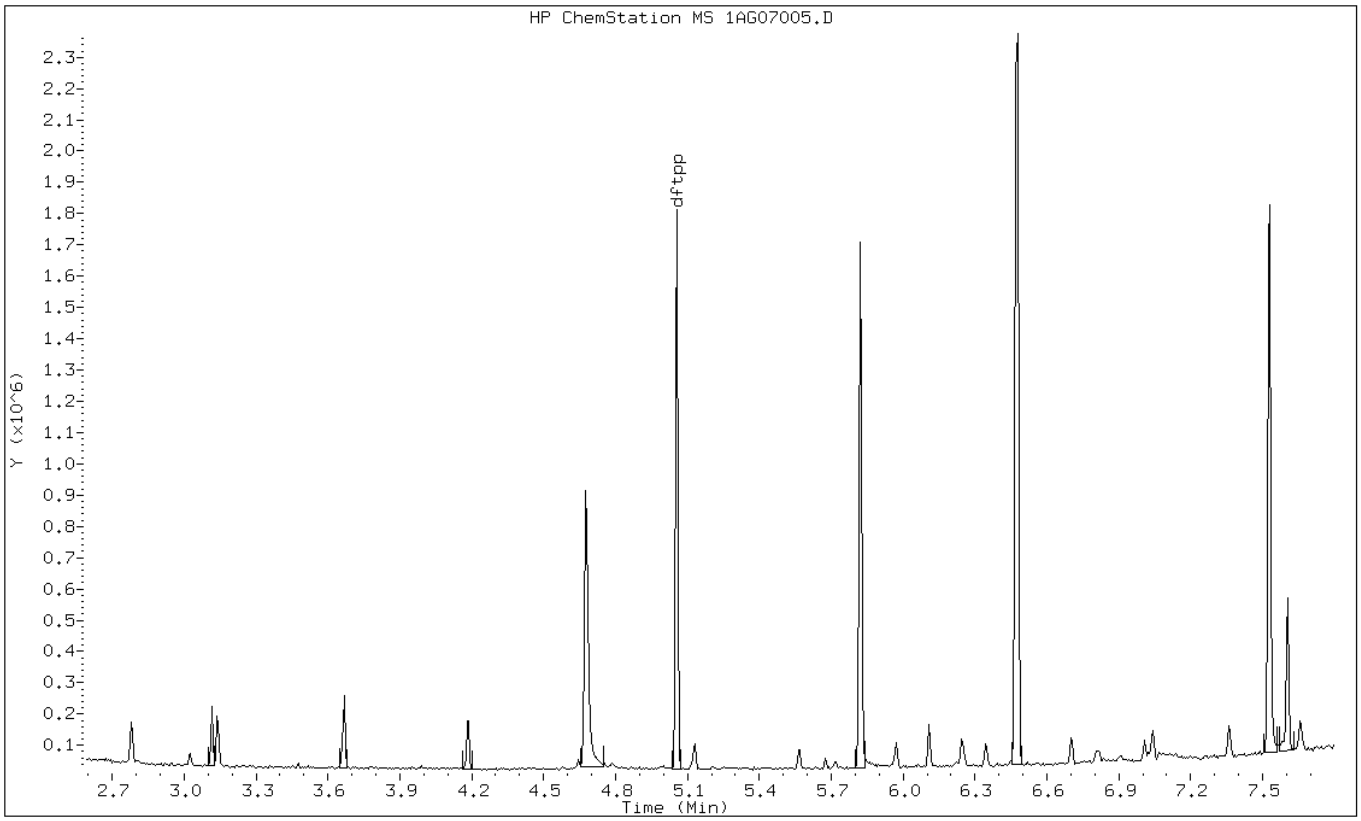
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.056	4.963	0.093	198	214144			50.00- 0.00	100.00
5.056	4.963	0.093	51	89200			10.00- 80.00	41.65
5.056	4.963	0.093	68	0	0.0	0.0	0.00- 2.00	0.00
5.056	4.963	0.093	69	79096			0.00- 0.00	36.94
5.056	4.963	0.093	70	606			0.00- 2.00	0.77
5.056	4.963	0.093	127	100320			10.00- 80.00	46.85
5.056	4.963	0.093	197	0	0.0	0.0	0.00- 2.00	0.00
5.056	4.963	0.093	442	149056			50.00- 0.00	69.61
5.056	4.963	0.093	199	14178			5.00- 9.00	6.62
5.056	4.963	0.093	275	52752			10.00- 60.00	24.63
5.056	4.963	0.093	365	5938			1.00- 0.00	2.77
5.056	4.963	0.093	441	22400			0.01- 99.99	76.02
5.056	4.963	0.093	443	29464			15.00- 24.00	19.77

Data File: 1AG07005.D

Date: 07-JUL-2013 13:53

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 | Operator: SCC



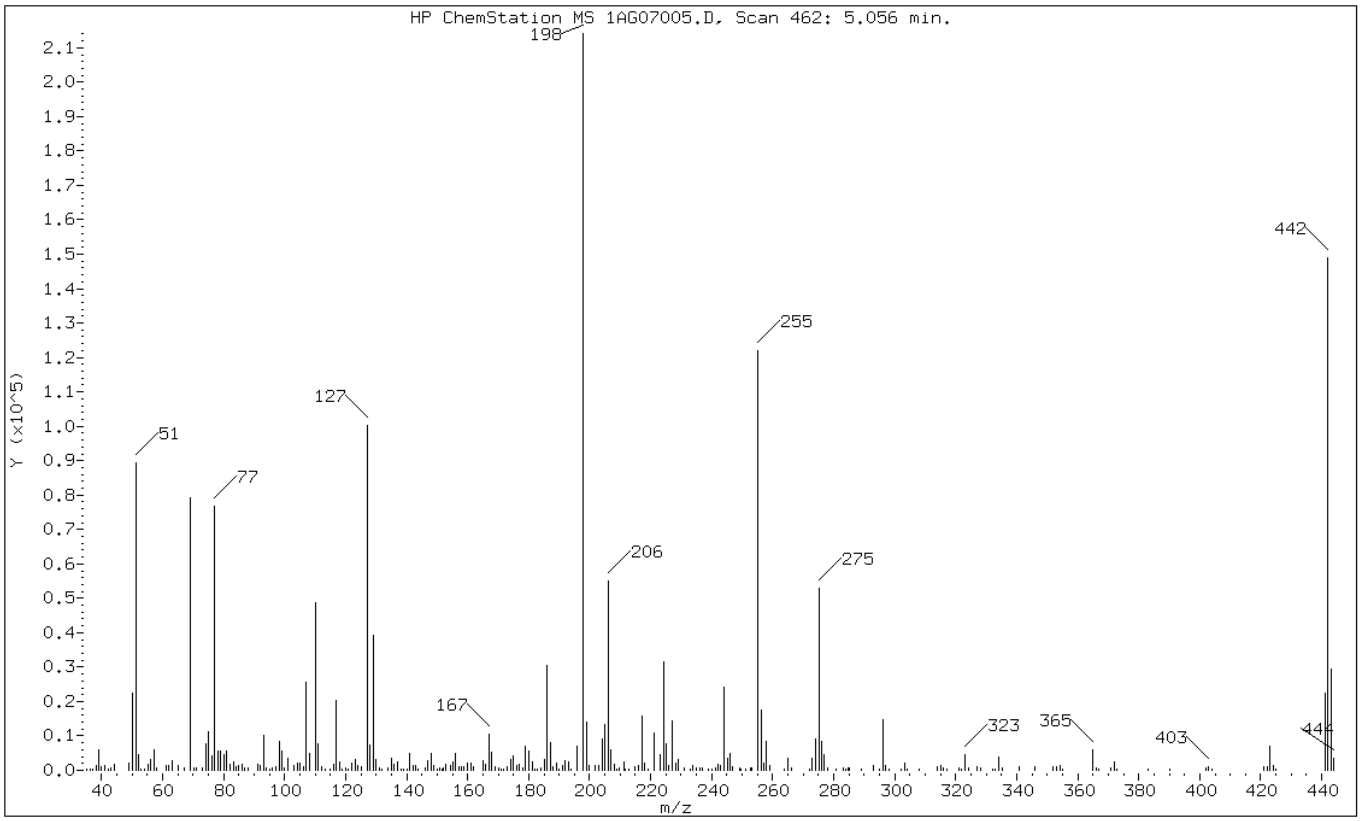
Data File: 1AG07005.D

Date: 07-JUL-2013 13:53

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 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	41.65
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	36.94
70	Less than 2.00% of mass 69	0.28 (0.77)
127	10.00 - 80.00% of mass 198	46.85
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	69.61
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	24.63
365	Greater than 1.00% of mass 198	2.77
441	Present, but less than mass 443	10.46
443	15.00 - 24.00% of mass 442	13.76 (19.77)

Data File: 1AG07005.D

Date: 07-JUL-2013 13:53

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07005.D
Spectrum: HP ChemStation MS 1AG07005.D, Scan 462: 5.056 min.
Location of Maximum: 198.00
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	302	116.00	1716	186.00	30424	272.00	288
36.10	259	117.00	20400	187.00	8101	273.00	3466
37.00	453	118.00	2363	188.10	1138	274.10	9207
38.10	1325	119.00	433	189.00	2071	275.10	52752
39.10	6124	120.20	717	189.90	326	276.00	8448
40.00	899	121.00	337	191.00	1449	277.00	4425
41.10	1289	122.10	2234	192.10	2958	277.90	856
42.10	415	123.10	3018	193.00	2417	280.80	307
43.10	629	124.10	1365	194.00	389	283.10	871
44.00	1831	125.00	961	195.90	7045	284.00	478
49.10	2243	127.00	100320	198.00	214144	284.90	579
50.10	22352	128.00	7292	199.00	14178	285.20	619
51.10	89200	129.00	39256	200.00	1418	288.90	481
52.10	4515	129.90	3046	201.70	1540	293.20	1261
53.00	347	131.00	710	203.00	1520	294.80	410
54.10	330	132.00	480	204.10	9070	296.00	14592
55.10	1664	133.90	833	205.00	13439	297.10	1465
56.10	3149	135.10	3415	206.00	55184	298.20	403
57.10	6062	136.00	1721	207.10	6027	302.20	522
58.20	538	137.10	2338	208.00	1711	303.10	2156
61.00	1382	138.00	446	209.00	457	304.00	386
62.10	1423	139.10	258	209.80	657	307.90	266
63.10	2776	140.10	446	211.10	2608	314.10	886
65.10	1490	141.00	4956	211.80	419	315.00	1454
67.10	635	142.00	1432	213.00	474	315.90	862
69.00	79096	143.00	1451	214.90	900	317.10	340
70.10	606	143.90	452	216.10	1402	321.00	545
71.10	575	146.00	766	217.00	15624	321.90	363
73.20	852	147.00	2755	218.00	2040	323.10	4593
74.10	7830	148.00	5020	219.00	266	324.10	821
75.10	11146	149.00	1468	221.10	10796	327.00	1021
76.10	4051	150.10	340	223.00	4487	328.10	632
77.10	76784	150.90	658	224.10	31608	332.20	486
78.10	5566	151.50	413	225.00	7565	333.10	494
79.00	5514	152.10	607	226.00	1248	334.00	3816
80.00	4545	153.00	1613	227.00	14229	335.20	634
81.00	5450	154.20	1352	228.10	2070	341.00	895
82.10	1793	155.00	2532	229.00	3300	345.90	1025
83.10	2518	156.10	4811	231.10	864	352.00	1192
84.00	1066	157.10	950	233.10	409	353.20	899

85.00	1549	158.00	1002	233.80	1237	354.20	1353
86.00	1842	158.90	1069	235.00	873	354.90	386
87.00	735	160.00	1981	236.00	621	365.00	5938
88.10	641	161.00	2149	237.00	873	366.00	717
91.00	1814	162.00	1021	238.90	439	366.90	354
92.00	1540	165.00	2817	240.00	389	370.90	859
93.10	10239	166.00	1865	241.20	789	371.90	2475
94.00	736	167.10	10587	242.00	1638	373.00	257
95.10	522	168.00	5397	242.90	1564	383.00	510
96.00	802	168.90	877	244.10	24168	390.10	333
97.10	941	170.00	605	245.10	3552	402.10	716
98.10	8499	171.10	481	246.00	4748	402.90	959
99.10	5723	171.90	504	246.90	877	404.10	430
100.00	581	173.10	1198	249.00	798	420.80	1044
101.10	3654	174.00	3012	249.70	352	422.00	1097
102.90	1328	175.10	4116	251.00	356	423.00	7089
104.10	2120	176.10	1263	252.80	598	424.00	1518
105.00	2091	177.00	1657	253.20	694	425.00	442
106.00	993	177.90	663	255.00	122024	441.00	22400
107.00	25760	179.00	6974	256.10	17656	442.00	149056
108.00	4900	180.00	5749	257.00	1990	443.00	29464
110.00	48584	181.10	2532	258.00	8510	443.90	3589
111.00	7686	182.10	410	259.10	1503		
112.00	1087	183.00	297	263.90	265		
113.30	421	184.10	663	265.00	3427		
115.00	322	185.10	3265	266.10	632		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: | Lab Sample ID: MB 660-138871/1-A

Matrix: Water | Lab File ID: 1AG02017.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 06/27/2013 09:53

Sample wt/vol: 1000(mL) | Date Analyzed: 07/02/2013 15:15

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.: 139030 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.0	U	2.0	0.50
208-96-8	Acenaphthylene	1.0	U	1.0	0.25
120-12-7	Anthracene	0.20	U	0.20	0.076
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.050
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.057
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.050
191-24-2	Benzo[g,h,i]perylene	0.50	U	0.50	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.057
218-01-9	Chrysene	0.20	U	0.20	0.069
53-70-3	Dibenz(a,h)anthracene	0.20	U	0.20	0.050
206-44-0	Fluoranthene	0.50	U	0.50	0.054
86-73-7	Fluorene	2.0	U	2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050
90-12-0	1-Methylnaphthalene	2.0	U	2.0	0.50
91-57-6	2-Methylnaphthalene	2.0	U	2.0	0.50
91-20-3	Naphthalene	2.0	U	2.0	0.25
85-01-8	Phenanthrene	0.50	U	0.50	0.20
129-00-0	Pyrene	0.50	U	0.50	0.089

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02017.D
Lab Smp Id: mb 660-138871/1-a
Inj Date : 02-JUL-2013 15:15
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-138871/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 17 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/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

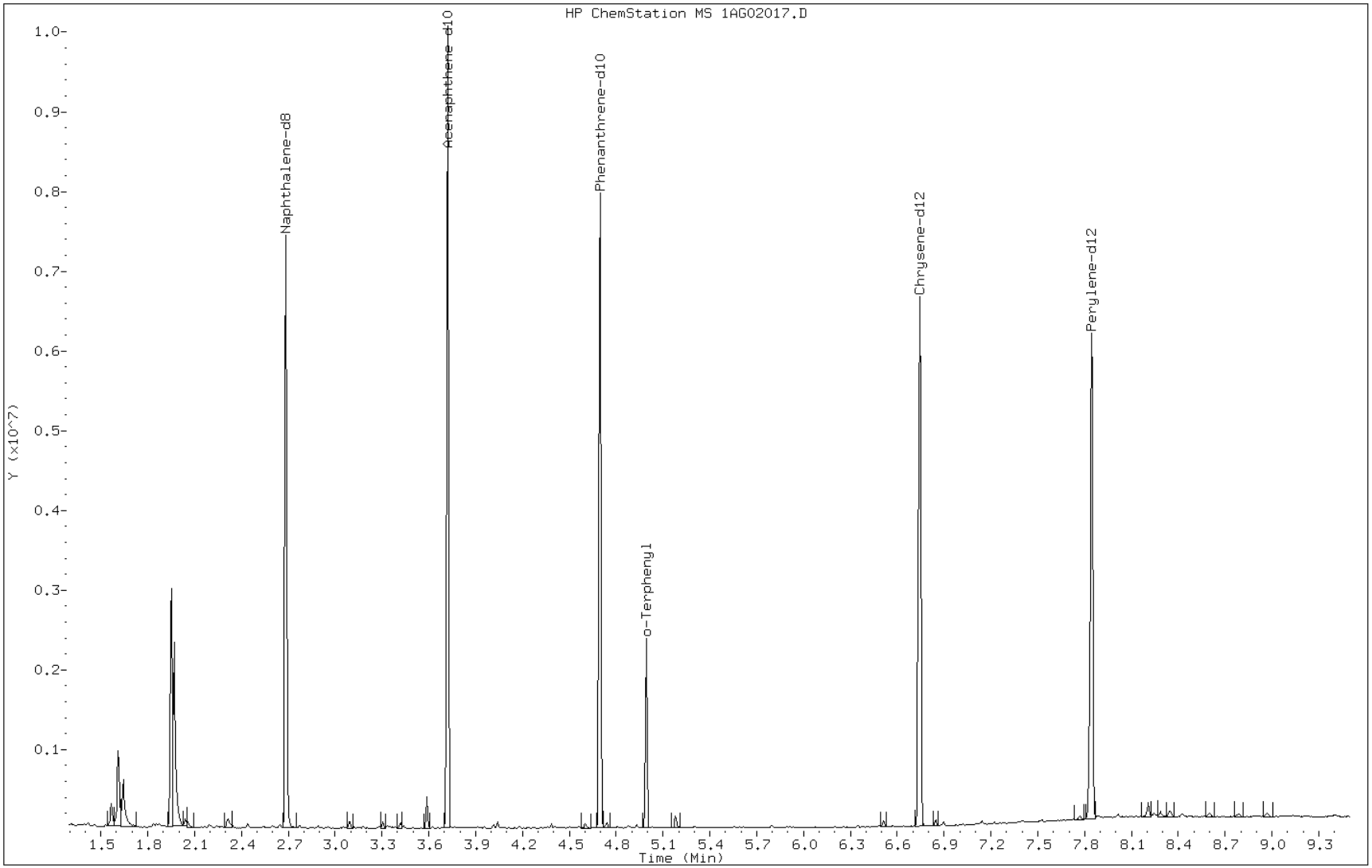
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.685	2.683	(1.000)	3084495	40.0000	
* 7 Acenaphthene-d10	164	3.721	3.719	(1.000)	1717400	40.0000	
* 11 Phenanthrene-d10	188	4.699	4.697	(1.000)	2654993	40.0000	
$ 15 o-Terphenyl	230	4.993	4.996	(1.063)	342670	6.44554	6.4455
* 19 Chrysene-d12	240	6.745	6.748	(1.000)	2740888	40.0000	
* 24 Perylene-d12	264	7.845	7.849	(1.000)	2881924	40.0000	

Data File: 1AG02017.D

Date: 02-JUL-2013 15:15

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-138871/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: | Lab Sample ID: MB 660-139005/1-A

Matrix: Solid | Lab File ID: 1AG03005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.02(g) | Date Analyzed: 07/03/2013 11:53

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.: 139084 | 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	50		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03005.D
Lab Smp Id: MB 660-139005/1-A
Inj Date : 03-JUL-2013 11:53
Operator : SCC Inst ID: BSMA5973.i
Smp Info : MB 660-139005/1-A
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.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	15.020	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

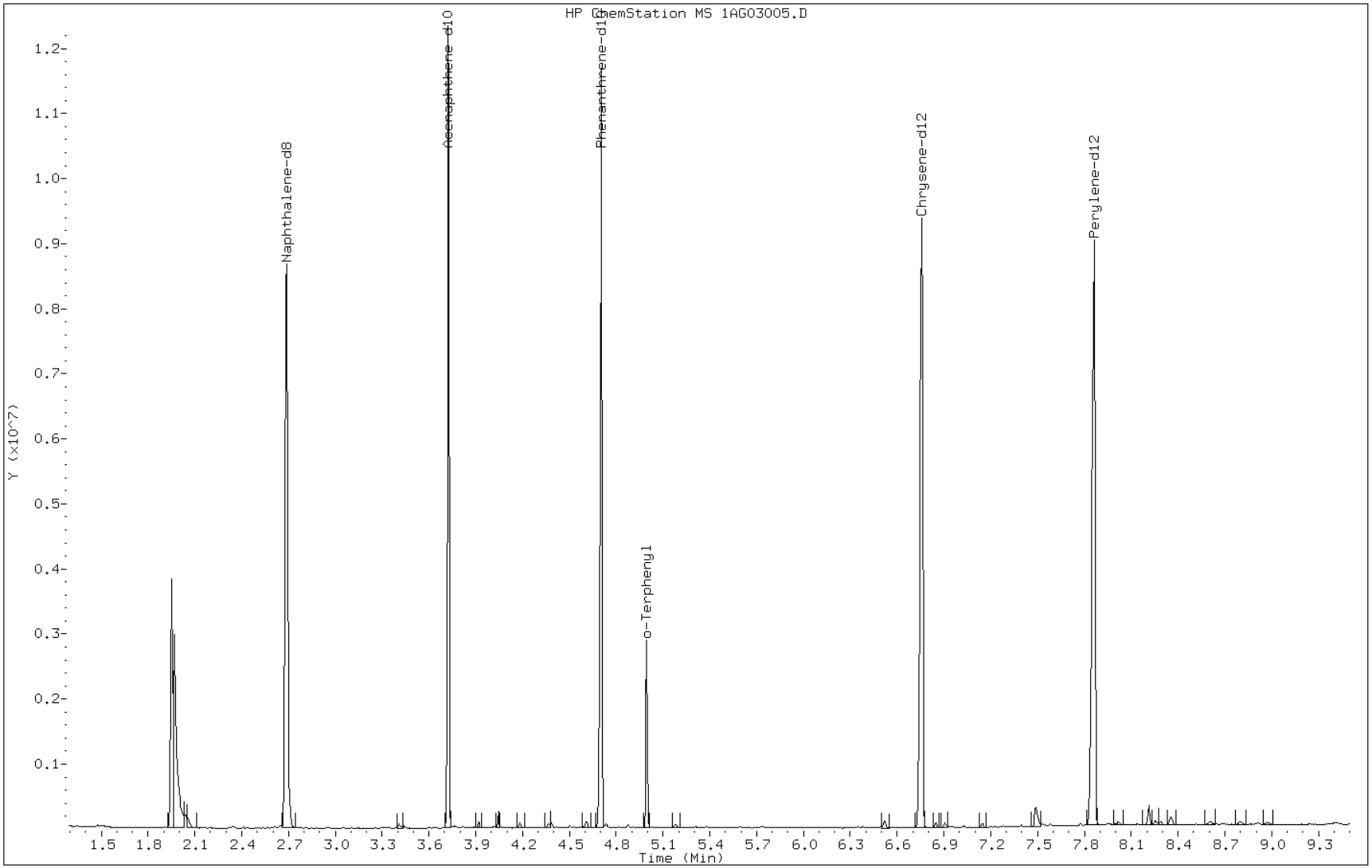
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.688	2.689	(1.000)	4694426	40.0000	
* 7 Acenaphthene-d10	164	3.724	3.725	(1.000)	2726990	40.0000	
* 11 Phenanthrene-d10	188	4.707	4.703	(1.000)	4206426	40.0000	
$ 15 o-Terphenyl	230	4.995	4.996	(1.061)	432945	5.00304	333.0918
* 19 Chrysene-d12	240	6.758	6.759	(1.000)	4602052	40.0000	
* 24 Perylene-d12	264	7.864	7.860	(1.000)	4704774	40.0000	

Data File: 1AG03005.D

Date: 03-JUL-2013 11:53

Client ID: Instrument: BSMA5973.i

Sample Info: MB 660-139005/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: | Lab Sample ID: MB 660-139049/1-A

Matrix: Solid | Lab File ID: 1AG03022.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/03/2013 07:27

Sample wt/vol: 14.96(g) | Date Analyzed: 07/03/2013 16:09

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.: 139084 | 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	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03022.D
Lab Smp Id: MB 660-139049/1-A
Inj Date : 03-JUL-2013 16:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : MB 660-139049/1-A
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 21 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	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

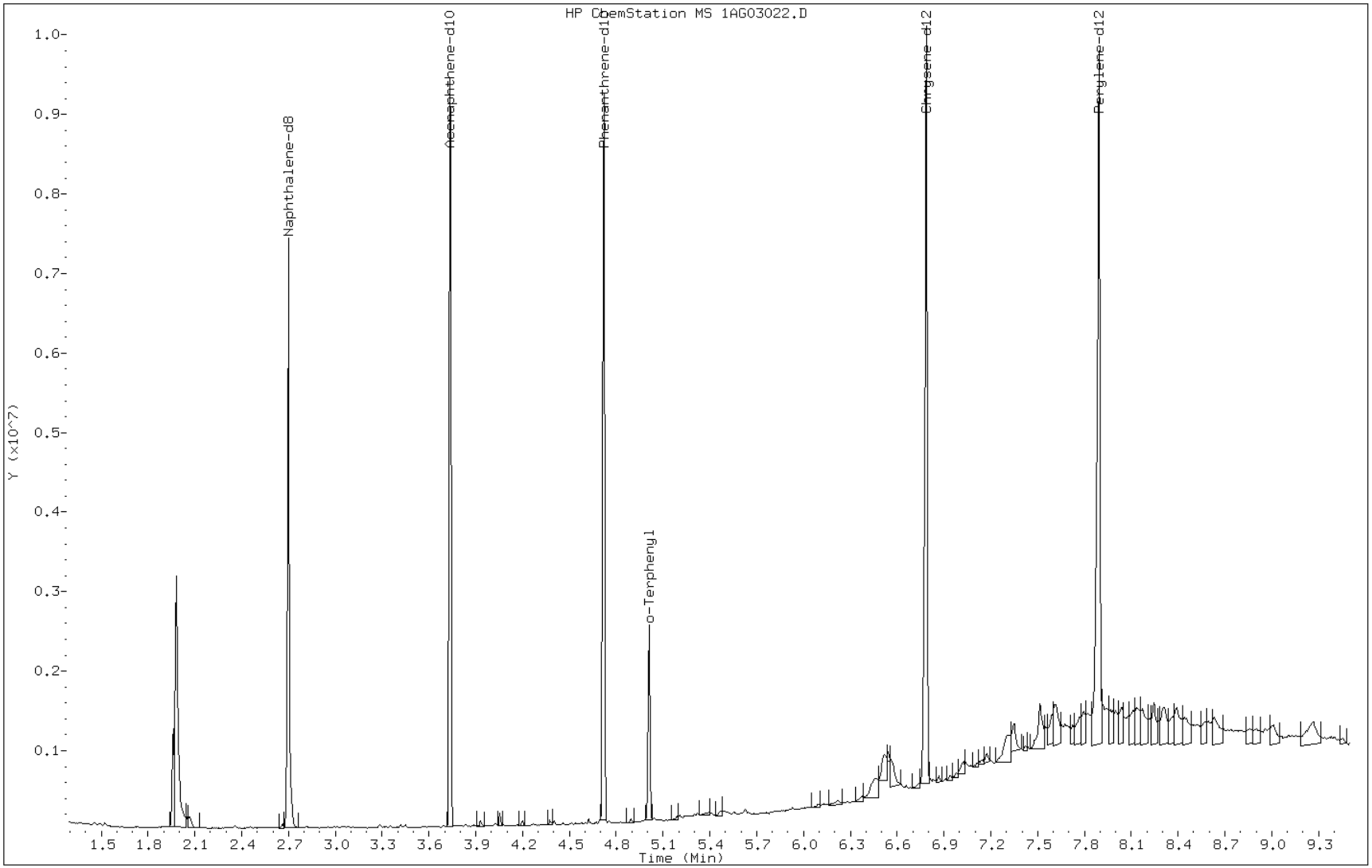
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.698	2.689	(1.000)	3228474	40.0000	
* 7 Acenaphthene-d10	164	3.734	3.725	(1.000)	1954856	40.0000	
* 11 Phenanthrene-d10	188	4.723	4.703	(1.000)	2998839	40.0000	
$ 15 o-Terphenyl	230	5.011	4.996	(1.061)	365709	6.04492	404.0720
* 19 Chrysene-d12	240	6.790	6.759	(1.000)	4126283	40.0000	
* 24 Perylene-d12	264	7.896	7.860	(1.000)	3949212	40.0000	

Data File: 1AG03022.D

Date: 03-JUL-2013 16:09

Client ID: Instrument: BSMA5973.i

Sample Info: MB 660-139049/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: | Lab Sample ID: LCS 660-138871/2-A

Matrix: Water | Lab File ID: 1AG02018.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 06/27/2013 09:53

Sample wt/vol: 1000(mL) | Date Analyzed: 07/02/2013 15:30

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.: 139030 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	6.47		2.0	0.50
208-96-8	Acenaphthylene	5.71		1.0	0.25
120-12-7	Anthracene	6.52		0.20	0.076
56-55-3	Benzo[a]anthracene	7.28		0.20	0.050
50-32-8	Benzo[a]pyrene	5.22		0.20	0.057
205-99-2	Benzo[b]fluoranthene	6.49		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	4.92		0.50	0.10
207-08-9	Benzo[k]fluoranthene	4.97		0.20	0.057
218-01-9	Chrysene	7.41		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	4.40		0.20	0.050
206-44-0	Fluoranthene	7.07		0.50	0.054
86-73-7	Fluorene	6.30		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	4.74		0.20	0.050
90-12-0	1-Methylnaphthalene	7.26		2.0	0.50
91-57-6	2-Methylnaphthalene	7.68		2.0	0.50
91-20-3	Naphthalene	8.27		2.0	0.25
85-01-8	Phenanthrene	7.12		0.50	0.20
129-00-0	Pyrene	7.45		0.50	0.089

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\1A070213.b\1AG02018.D
Lab Smp Id: lcs 660-138871/2-A
Inj Date : 02-JUL-2013 15:30
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-138871/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 18 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	2.685	2.683	(1.000)	2750377	40.0000	
* 7 Acenaphthene-d10	164	3.721	3.719	(1.000)	1591423	40.0000	
* 11 Phenanthrene-d10	188	4.699	4.697	(1.000)	2500336	40.0000	
$ 15 o-Terphenyl	230	4.993	4.996	(1.063)	343973	6.93212	6.9321
* 19 Chrysene-d12	240	6.745	6.748	(1.000)	2461102	40.0000	
* 24 Perylene-d12	264	7.846	7.849	(1.000)	2690321	40.0000	
2 Naphthalene	128	2.696	2.699	(1.004)	594014	8.27183	8.2718
3 2-Methylnaphthalene	141	3.102	3.105	(1.155)	362880	7.67657	7.6765
4 1-Methylnaphthalene	142	3.161	3.158	(1.177)	403633	7.26397	7.2639
6 Acenaphthylene	152	3.631	3.634	(0.976)	622222	5.71432	5.7143
8 Acenaphthene	154	3.737	3.741	(1.004)	359618	6.46729	6.4672
10 Fluorene	166	4.063	4.061	(1.092)	469519	6.30429	6.3042
12 Phenanthrene	178	4.710	4.713	(1.002)	606979	7.11739	7.1173
13 Anthracene	178	4.747	4.745	(1.010)	602393	6.51998	6.5199
16 Fluoranthene	202	5.591	5.594	(1.190)	732473	7.06863	7.0686
17 Pyrene	202	5.762	5.765	(0.854)	739403	7.45193	7.4519
18 Benzo(a)anthracene	228	6.734	6.738	(0.998)	610797	7.28157	7.2815

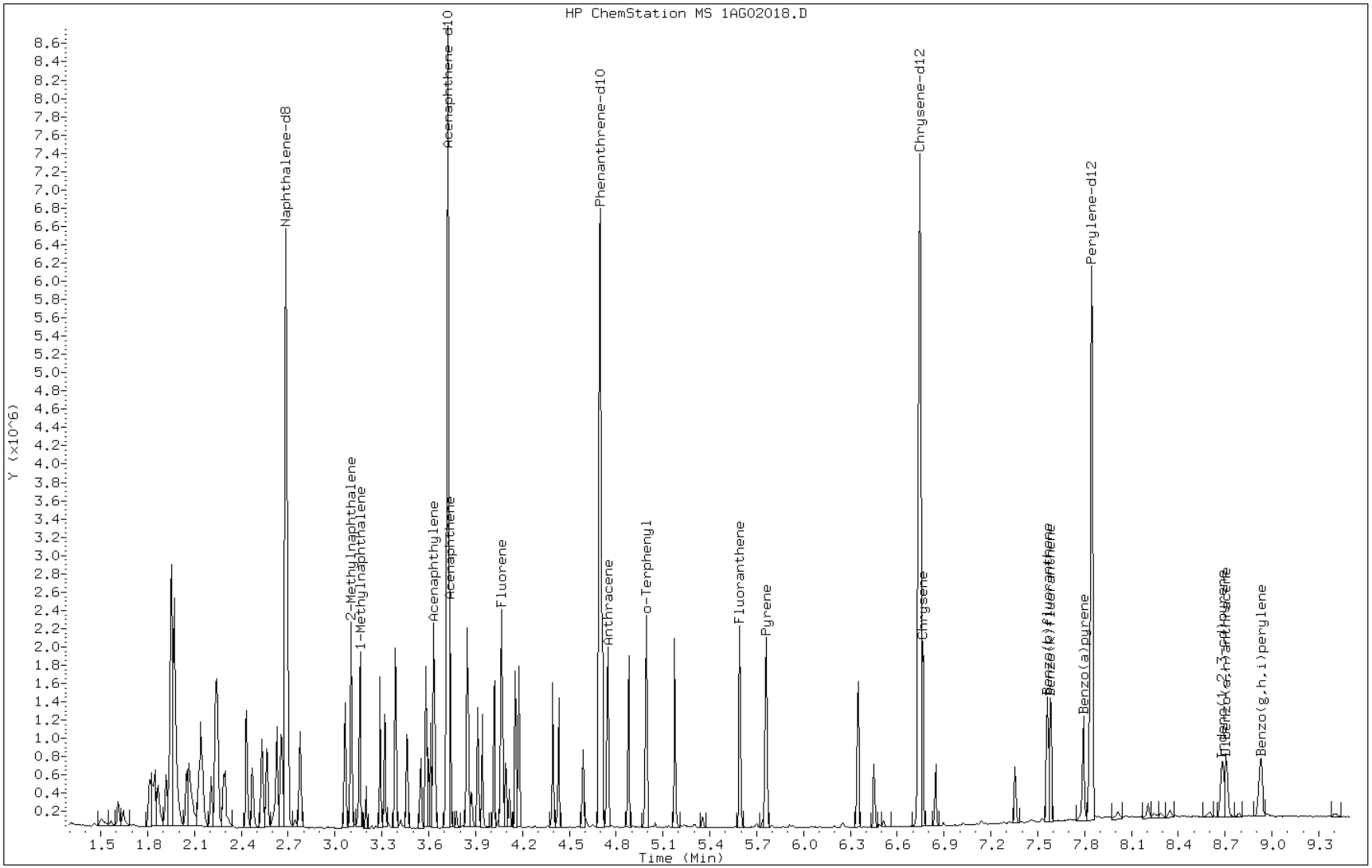
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
20 Chrysene	228	6.761	6.764	(1.002)	597042	7.40631	7.4063
21 Benzo(b)fluoranthene	252	7.562	7.571	(0.964)	552764	6.49170	6.4916
22 Benzo(k)fluoranthene	252	7.578	7.592	(0.966)	493320	4.97331	4.9733
23 Benzo(a)pyrene	252	7.792	7.801	(0.993)	415676	5.22345	5.2234
25 Indeno(1,2,3-cd)pyrene	276	8.684	8.698	(1.107)	336705	4.73976	4.7397
26 Dibenzo(a,h)anthracene	278	8.706	8.725	(1.110)	309836	4.40154	4.4015
27 Benzo(g,h,i)perylene	276	8.930	8.949	(1.138)	371992	4.91759	4.9175

Data File: 1AG02018.D

Date: 02-JUL-2013 15:30

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-138871/2-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-91719-2
SDG No.: 68091719-2
Client Sample ID:
Lab Sample ID: LCS 660-139005/2-A
Matrix: Solid
Lab File ID: 1AG03006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 07/02/2013 07:50
Sample wt/vol: 14.98(g)
Date Analyzed: 07/03/2013 12:08
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.: 139084
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	307		100	20
208-96-8	Acenaphthylene	283		40	5.0
120-12-7	Anthracene	340		8.4	4.2
56-55-3	Benzo[a]anthracene	386		8.0	3.9
50-32-8	Benzo[a]pyrene	368		10	5.2
205-99-2	Benzo[b]fluoranthene	364		12	6.1
191-24-2	Benzo[g,h,i]perylene	344		20	4.4
207-08-9	Benzo[k]fluoranthene	345		8.0	3.6
218-01-9	Chrysene	361		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	357		20	4.1
206-44-0	Fluoranthene	341		20	4.0
86-73-7	Fluorene	306		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	395		20	7.1
90-12-0	1-Methylnaphthalene	356		40	4.4
91-57-6	2-Methylnaphthalene	363		40	7.1
91-20-3	Naphthalene	399		40	4.4
85-01-8	Phenanthrene	346		8.0	3.9
129-00-0	Pyrene	351		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03006.D
Lab Smp Id: LCS 660-139005/2-A
Inj Date : 03-JUL-2013 12:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : LCS 660-139005/2-A
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.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	14.980	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	2.691	2.689	(1.000)	3949971	40.0000	
* 7 Acenaphthene-d10	164	3.727	3.725	(1.000)	2315531	40.0000	
* 11 Phenanthrene-d10	188	4.705	4.703	(1.000)	3803588	40.0000	
$ 15 o-Terphenyl	230	4.999	4.996	(1.062)	417325	5.37022	358.4924
* 19 Chrysene-d12	240	6.761	6.759	(1.000)	3947212	40.0000	
* 24 Perylene-d12	264	7.862	7.860	(1.000)	4209981	40.0000	
2 Naphthalene	128	2.701	2.705	(1.004)	616032	5.97319	398.7444
3 2-Methylnaphthalene	141	3.107	3.105	(1.155)	381438	5.43157	362.5882
4 1-Methylnaphthalene	142	3.161	3.164	(1.175)	440619	5.33133	355.8963
6 Acenaphthylene	152	3.636	3.634	(0.976)	690265	4.24063	283.0857
8 Acenaphthene	154	3.743	3.746	(1.004)	385017	4.59687	306.8668
10 Fluorene	166	4.064	4.067	(1.090)	510488	4.57741	305.5680
12 Phenanthrene	178	4.715	4.719	(1.002)	694871	5.18193	345.9235
13 Anthracene	178	4.753	4.756	(1.010)	731297	5.08921	339.7336

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.597	5.600	(1.190)	825786	5.10308	340.6594
17 Pyrene	202	5.768	5.771	(0.853)	836009	5.25337	350.6921
18 Benzo(a)anthracene	228	6.745	6.743	(0.998)	780687	5.78329	386.0673
20 Chrysene	228	6.772	6.781	(1.002)	699208	5.40807	361.0195
21 Benzo(b)fluoranthene	252	7.573	7.577	(0.963)	726379	5.45137	363.9100
22 Benzo(k)fluoranthene	252	7.590	7.598	(0.965)	800592	5.16557	344.8312
23 Benzo(a)pyrene	252	7.803	7.812	(0.993)	687420	5.52012	368.4992
25 Indeno(1,2,3-cd)pyrene	276	8.701	8.715	(1.107)	657484	5.91448	394.8248(H)
26 Dibenzo(a,h)anthracene	278	8.722	8.741	(1.109)	589148	5.34836	357.0334
27 Benzo(g,h,i)perylene	276	8.946	8.966	(1.138)	609358	5.14772	343.6394

QC Flag Legend

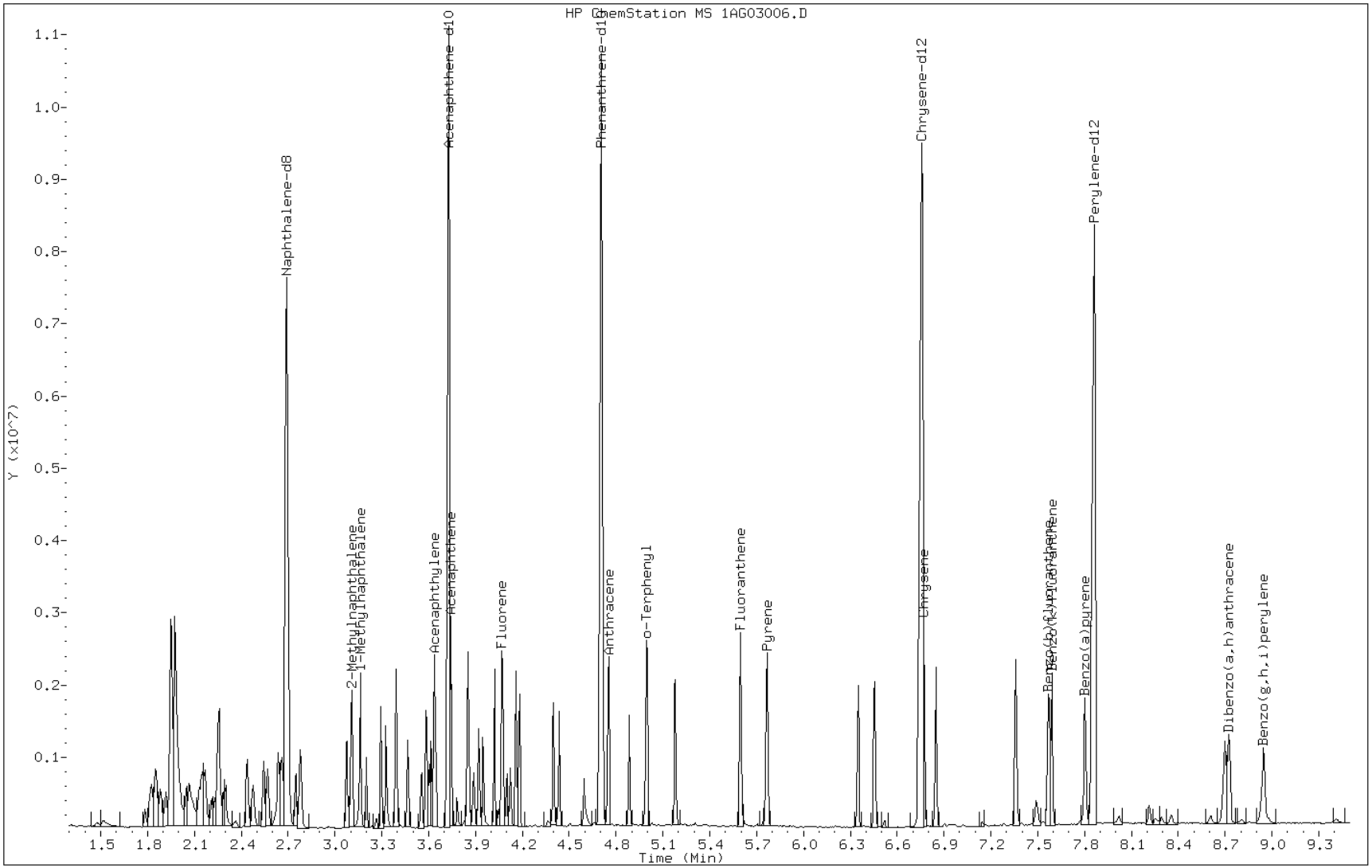
H - Operator selected an alternate compound hit.

Data File: 1AG03006.D

Date: 03-JUL-2013 12:08

Client ID: Instrument: BSMA5973.i

Sample Info: LCS 660-139005/2-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: | Lab Sample ID: LCS 660-139049/2-A

Matrix: Solid | Lab File ID: 1AG03023.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/03/2013 07:27

Sample wt/vol: 15.15(g) | Date Analyzed: 07/03/2013 16:24

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.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	322		99	20
208-96-8	Acenaphthylene	311		40	5.0
120-12-7	Anthracene	376		8.3	4.2
56-55-3	Benzo[a]anthracene	462		7.9	3.9
50-32-8	Benzo[a]pyrene	393		10	5.1
205-99-2	Benzo[b]fluoranthene	450		12	6.0
191-24-2	Benzo[g,h,i]perylene	225		20	4.4
207-08-9	Benzo[k]fluoranthene	412		7.9	3.6
218-01-9	Chrysene	403		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	293		20	4.1
206-44-0	Fluoranthene	389		20	4.0
86-73-7	Fluorene	339		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	314		20	7.0
90-12-0	1-Methylnaphthalene	402		40	4.4
91-57-6	2-Methylnaphthalene	406		40	7.0
91-20-3	Naphthalene	450		40	4.4
85-01-8	Phenanthrene	379		7.9	3.9
129-00-0	Pyrene	329		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03023.D
Lab Smp Id: LCS 660-139049/2-A
Inj Date : 03-JUL-2013 16:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : LCS 660-139049/2-A
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 22 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	15.150	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.699	2.689	(1.000)	3046365	40.0000	
* 7 Acenaphthene-d10	164	3.741	3.725	(1.000)	1884221	40.0000	
* 11 Phenanthrene-d10	188	4.724	4.703	(1.000)	3068730	40.0000	
$ 15 o-Terphenyl	230	5.012	4.996	(1.061)	363089	5.84278	385.6620
* 19 Chrysene-d12	240	6.791	6.759	(1.000)	4074454	40.0000	
* 24 Perylene-d12	264	7.891	7.860	(1.000)	3877935	40.0000	
2 Naphthalene	128	2.710	2.705	(1.004)	542848	6.82485	450.4854
3 2-Methylnaphthalene	141	3.116	3.105	(1.154)	329764	6.15521	406.2844
4 1-Methylnaphthalene	142	3.174	3.164	(1.176)	383203	6.09677	402.4272
6 Acenaphthylene	152	3.650	3.634	(0.976)	619276	4.71373	311.1372
8 Acenaphthene	154	3.757	3.746	(1.004)	331163	4.88297	322.3084
10 Fluorene	166	4.077	4.067	(1.090)	462506	5.14069	339.3193
12 Phenanthrene	178	4.734	4.719	(1.002)	615128	5.73941	378.8390
13 Anthracene	178	4.766	4.756	(1.009)	654224	5.69486	375.8985

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.621	5.600	(1.190)	761849	5.89399	389.0423
17 Pyrene	202	5.792	5.771	(0.853)	819402	4.98821	329.2549
18 Benzo(a)anthracene	228	6.780	6.743	(0.998)	972308	6.99781	461.9015
20 Chrysene	228	6.807	6.781	(1.002)	814578	6.10365	402.8814
21 Benzo(b)fluoranthene	252	7.603	7.577	(0.963)	836454	6.81497	449.8333
22 Benzo(k)fluoranthene	252	7.624	7.598	(0.966)	882247	6.24060	411.9211
23 Benzo(a)pyrene	252	7.838	7.812	(0.993)	682099	5.94639	392.5008
25 Indeno(1,2,3-cd)pyrene	276	8.751	8.715	(1.109)	486974	4.75572	313.9090(M)
26 Dibenzo(a,h)anthracene	278	8.778	8.741	(1.112)	450361	4.43850	292.9705
27 Benzo(g,h,i)perylene	276	9.003	8.966	(1.141)	371350	3.40569	224.7981

QC Flag Legend

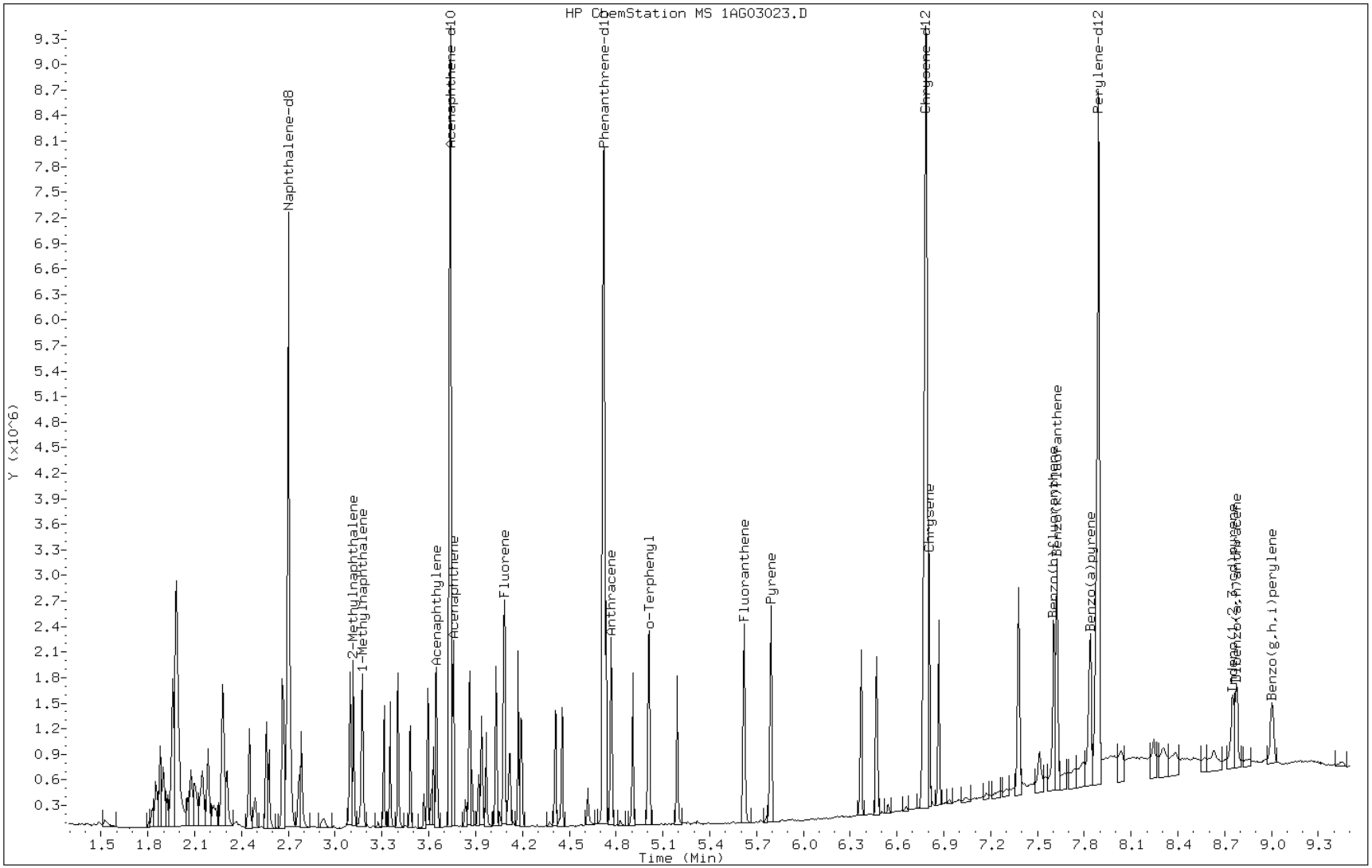
M - Compound response manually integrated.

Data File: 1AG03023.D

Date: 03-JUL-2013 16:24

Client ID: Instrument: BSMA5973.i

Sample Info: LCS 660-139049/2-A Operator: SCC



Manual Integration Report

Data File: 1AG03023.D
Inj. Date and Time: 03-JUL-2013 16:24
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/05/2013

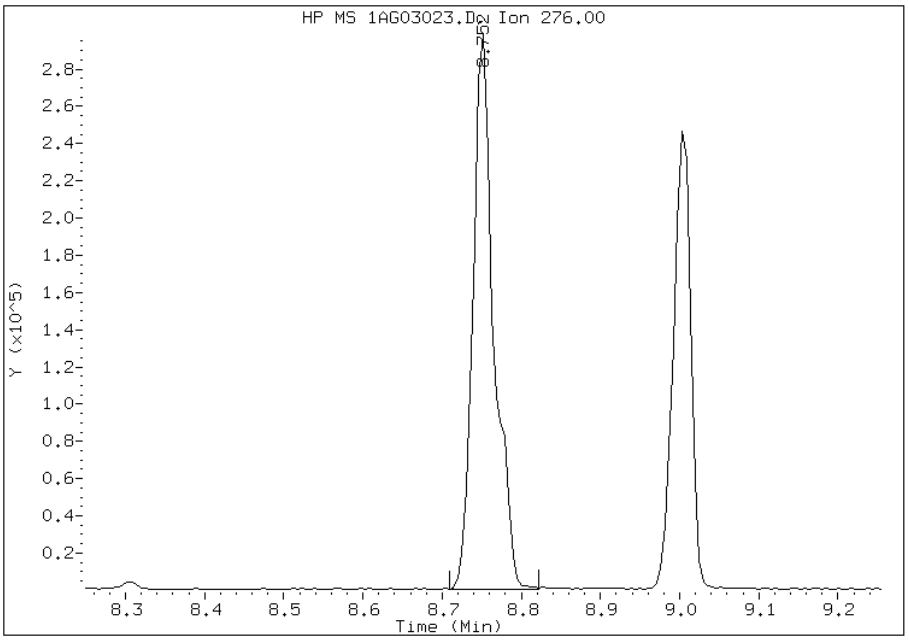
Processing Integration Results

RT: 8.75

Response: 538409

Amount: 5

Conc: 347



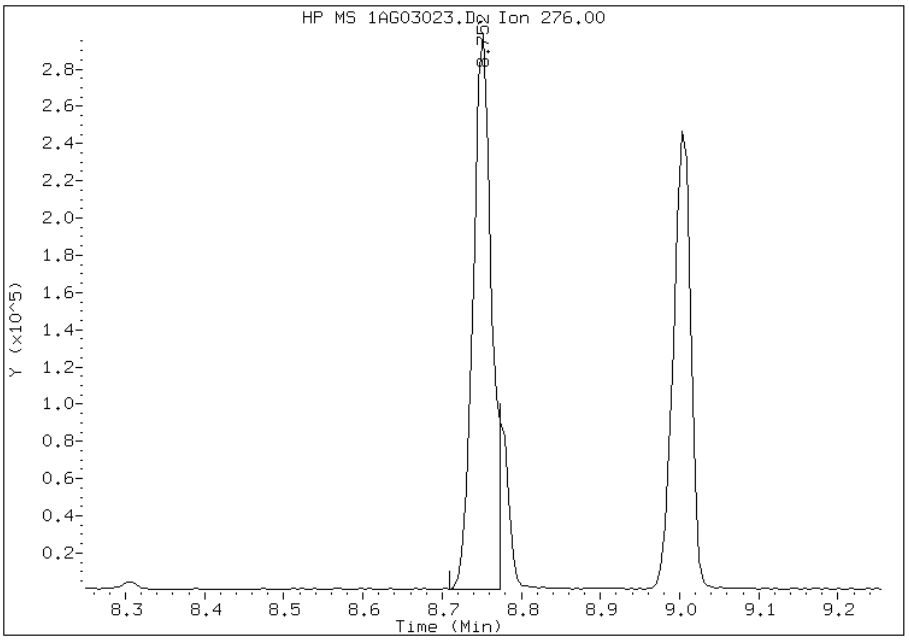
Manual Integration Results

RT: 8.75

Response: 486974

Amount: 5

Conc: 314



Manually Integrated By: cantins
Modification Date: 05-Jul-2013 10:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: | Lab Sample ID: 680-91637-B-41-A MS

Matrix: Water | Lab File ID: 1AG02022.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 06/27/2013 09:53

Sample wt/vol: 1040(mL) | Date Analyzed: 07/02/2013 16:30

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.: 139030 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	3.91		1.9	0.48
208-96-8	Acenaphthylene	3.60		0.96	0.24
120-12-7	Anthracene	4.07		0.19	0.073
56-55-3	Benzo[a]anthracene	3.97		0.19	0.048
50-32-8	Benzo[a]pyrene	2.35		0.19	0.055
205-99-2	Benzo[b]fluoranthene	3.10		0.19	0.048
191-24-2	Benzo[g,h,i]perylene	1.32		0.48	0.096
207-08-9	Benzo[k]fluoranthene	2.21		0.19	0.055
218-01-9	Chrysene	3.53		0.19	0.066
53-70-3	Dibenz(a,h)anthracene	1.25		0.19	0.048
206-44-0	Fluoranthene	4.40		0.48	0.052
86-73-7	Fluorene	3.97		1.9	0.48
193-39-5	Indeno[1,2,3-cd]pyrene	1.93		0.19	0.048
90-12-0	1-Methylnaphthalene	4.45		1.9	0.48
91-57-6	2-Methylnaphthalene	4.74		1.9	0.48
91-20-3	Naphthalene	5.51		1.9	0.24
85-01-8	Phenanthrene	4.30		0.48	0.19
129-00-0	Pyrene	4.62		0.48	0.086

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	43		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02022.D
Lab Smp Id: 680-91637-b-41-a ms
Inj Date : 02-JUL-2013 16:30
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91637-b-41-a ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 22 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/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	1040.000	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	2.686	2.683	(1.000)	2748413	40.0000	
* 7 Acenaphthene-d10	164	3.722	3.719	(1.000)	1550944	40.0000	
* 11 Phenanthrene-d10	188	4.700	4.697	(1.000)	2447979	40.0000	
$ 15 o-Terphenyl	230	4.993	4.996	(1.063)	219069	4.29293	4.1278
* 19 Chrysene-d12	240	6.746	6.748	(1.000)	2447419	40.0000	
* 24 Perylene-d12	264	7.846	7.849	(1.000)	2688380	40.0000	
2 Naphthalene	128	2.696	2.699	(1.004)	410952	5.72672	5.5064
3 2-Methylnaphthalene	141	3.102	3.105	(1.155)	242833	4.93324	4.7434
4 1-Methylnaphthalene	142	3.161	3.158	(1.177)	269455	4.62561	4.4476(R)
6 Acenaphthylene	152	3.631	3.634	(0.976)	411070	3.74192	3.5980(R)
8 Acenaphthene	154	3.738	3.741	(1.004)	230199	4.06932	3.9128(R)
10 Fluorene	166	4.064	4.061	(1.092)	310055	4.12627	3.9675(R)
12 Phenanthrene	178	4.710	4.713	(1.002)	390660	4.47541	4.3032(R)
13 Anthracene	178	4.748	4.745	(1.010)	395569	4.22764	4.0650
16 Fluoranthene	202	5.592	5.594	(1.190)	479077	4.57304	4.3971(R)
17 Pyrene	202	5.763	5.765	(0.854)	474414	4.80802	4.6230(R)
18 Benzo(a)anthracene	228	6.735	6.738	(0.998)	348154	4.13250	3.9735(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
20 Chrysene	228	6.762	6.764	(1.002)	294514	3.67387	3.5325(R)
21 Benzo(b)fluoranthene	252	7.563	7.571	(0.964)	274252	3.22316	3.0991(R)
22 Benzo(k)fluoranthene	252	7.579	7.592	(0.966)	227653	2.30062	2.2121(R)
23 Benzo(a)pyrene	252	7.787	7.801	(0.993)	194314	2.44354	2.3495
25 Indeno(1,2,3-cd)pyrene	276	8.674	8.698	(1.106)	142274	2.00422	1.9271(RH)
26 Dibenzo(a,h)anthracene	278	8.701	8.725	(1.109)	91082	1.29485	1.2450(R)
27 Benzo(g,h,i)perylene	276	8.925	8.949	(1.138)	103590	1.37041	1.3176(R)

QC Flag Legend

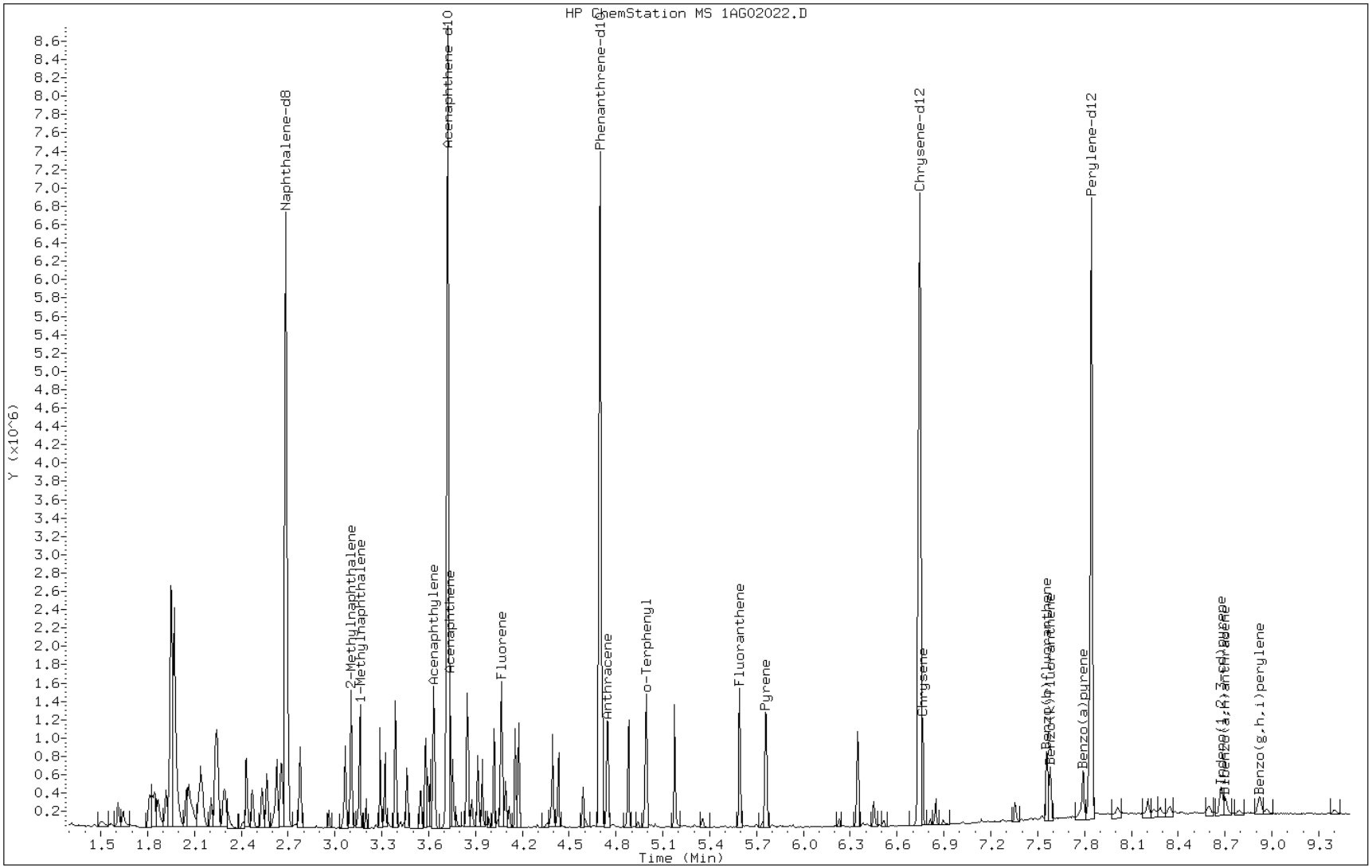
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: 1AG02022.D

Date: 02-JUL-2013 16:30

Client ID: Instrument: BSMA5973.i

Sample Info: 680-91637-b-41-a ms Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: | Lab Sample ID: 680-91719-A-17-B MS

Matrix: Solid | Lab File ID: 1AG03026.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/03/2013 07:27

Sample wt/vol: 15.00(g) | Date Analyzed: 07/03/2013 17:10

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

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

% Moisture: 10.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	315		110	22
208-96-8	Acenaphthylene	311		45	5.6
120-12-7	Anthracene	383		9.4	4.7
56-55-3	Benzo[a]anthracene	546		8.9	4.3
50-32-8	Benzo[a]pyrene	506		12	5.8
205-99-2	Benzo[b]fluoranthene	836		14	6.8
191-24-2	Benzo[g,h,i]perylene	262		22	4.9
207-08-9	Benzo[k]fluoranthene	393		8.9	4.0
218-01-9	Chrysene	604		10	5.0
53-70-3	Dibenz(a,h)anthracene	289		22	4.6
206-44-0	Fluoranthene	720		22	4.5
86-73-7	Fluorene	304		22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	333		22	7.9
90-12-0	1-Methylnaphthalene	402		45	4.9
91-57-6	2-Methylnaphthalene	427		45	7.9
91-20-3	Naphthalene	448		45	4.9
85-01-8	Phenanthrene	551		8.9	4.3
129-00-0	Pyrene	492		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03026.D
Lab Smp Id: 680-91719-A-17-B MS
Inj Date : 03-JUL-2013 17:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-17-B MS
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 25 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	15.000	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	2.703	2.689	(1.000)	3166795	40.0000	
* 7 Acenaphthene-d10	164	3.740	3.725	(1.000)	1853185	40.0000	
* 11 Phenanthrene-d10	188	4.722	4.703	(1.000)	3055188	40.0000	
$ 15 o-Terphenyl	230	5.011	4.996	(1.061)	294550	4.65605	310.4030
* 19 Chrysene-d12	240	6.801	6.759	(1.000)	4326163	40.0000	
* 24 Perylene-d12	264	7.906	7.860	(1.000)	4014471	40.0000	(H)
2 Naphthalene	128	2.714	2.705	(1.004)	497875	6.02140	401.4266
3 2-Methylnaphthalene	141	3.120	3.105	(1.154)	322074	5.74760	383.1732
4 1-Methylnaphthalene	142	3.173	3.164	(1.174)	357474	5.40199	360.1325
6 Acenaphthylene	152	3.649	3.634	(0.976)	546016	4.18771	279.1803
8 Acenaphthene	154	3.756	3.746	(1.004)	285849	4.23978	282.6519
10 Fluorene	166	4.081	4.067	(1.091)	366865	4.08403	272.2685
12 Phenanthrene	178	4.739	4.719	(1.003)	767955	7.40618	493.7454
13 Anthracene	178	4.771	4.756	(1.010)	593525	5.14655	343.1034

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.625	5.600	(1.191)	1181258	9.68496	645.6636
17 Pyrene	202	5.796	5.771	(0.852)	1154626	6.61997	441.3310
18 Benzo(a)anthracene	228	6.790	6.743	(0.998)	1082096	7.33949	489.2991
20 Chrysene	228	6.811	6.781	(1.002)	1150901	8.12198	541.4650
21 Benzo(b)fluoranthene	252	7.623	7.577	(0.964)	1429097	11.2475	749.8335(H)
22 Benzo(k)fluoranthene	252	7.639	7.598	(0.966)	780892	5.28929	352.6192(H)
23 Benzo(a)pyrene	252	7.853	7.812	(0.993)	808678	6.81010	454.0068(H)
25 Indeno(1,2,3-cd)pyrene	276	8.788	8.715	(1.111)	474270	4.47413	298.2753(MH)
26 Dibenzo(a,h)anthracene	278	8.809	8.741	(1.114)	407752	3.88190	258.7932(H)
27 Benzo(g,h,i)perylene	276	9.050	8.966	(1.145)	398311	3.52871	235.2476(H)

QC Flag Legend

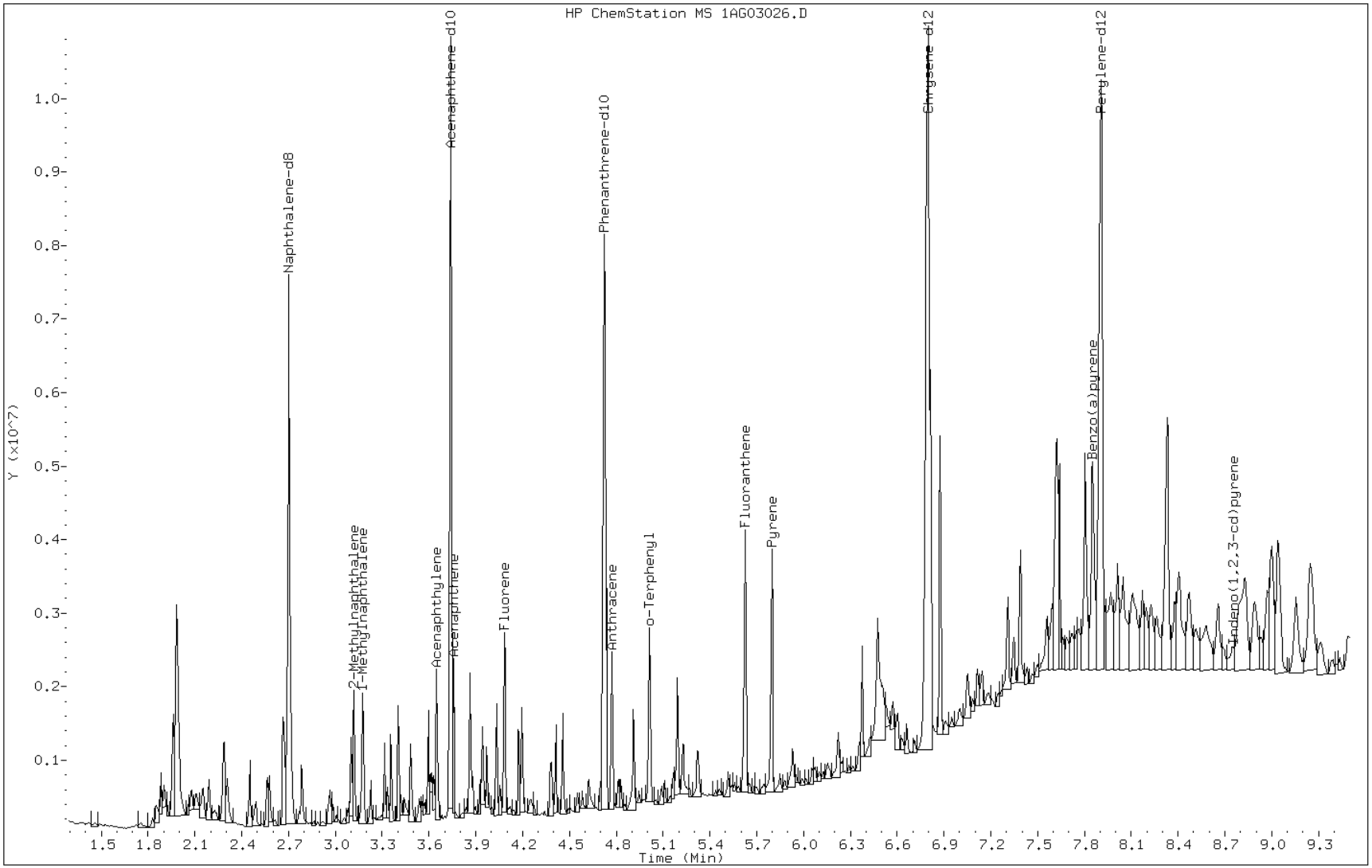
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03026.D

Date: 03-JUL-2013 17:10

Client ID: Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-B MS Operator: SCC



Manual Integration Report

Data File: 1AG03026.D
Inj. Date and Time: 03-JUL-2013 17:10
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/05/2013

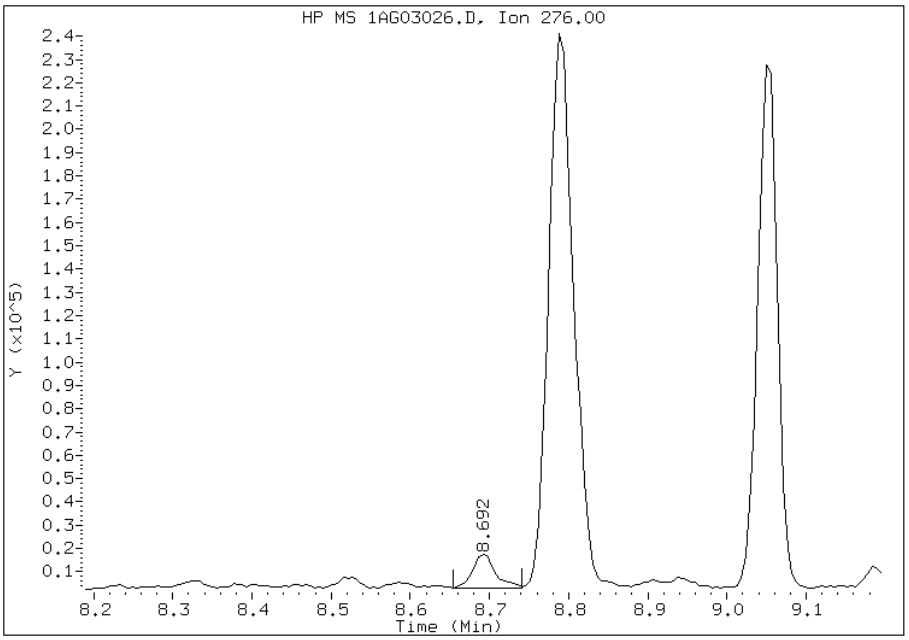
Processing Integration Results

RT: 8.69

Response: 27812

Amount: 0

Conc: 17



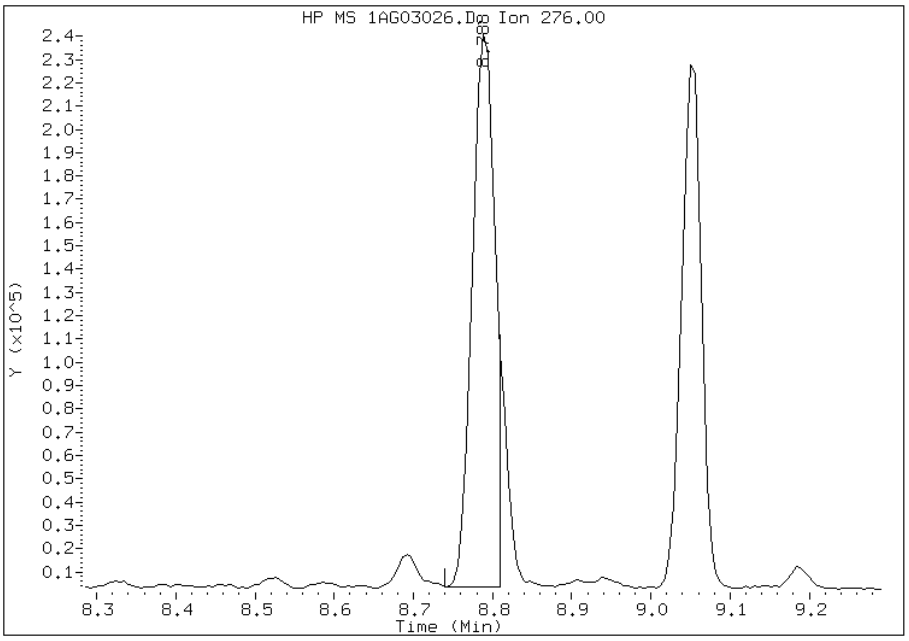
Manual Integration Results

RT: 8.79

Response: 474270

Amount: 4

Conc: 298



Manually Integrated By: cantins
Modification Date: 05-Jul-2013 11:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363O-CS MS | Lab Sample ID: 680-91719-21 MS

Matrix: Solid | Lab File ID: 1AG03020.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 09:25

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.33(g) | Date Analyzed: 07/03/2013 15:39

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.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	342		110	23
208-96-8	Acenaphthylene	340		45	5.7
120-12-7	Anthracene	502		9.5	4.7
56-55-3	Benzo[a]anthracene	848		9.0	4.4
50-32-8	Benzo[a]pyrene	763		12	5.9
205-99-2	Benzo[b]fluoranthene	1370		14	6.9
191-24-2	Benzo[g,h,i]perylene	378		23	5.0
207-08-9	Benzo[k]fluoranthene	481		9.0	4.1
218-01-9	Chrysene	944		10	5.1
53-70-3	Dibenz(a,h)anthracene	333		23	4.6
206-44-0	Fluoranthene	1490		23	4.5
86-73-7	Fluorene	340		23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	496		23	8.0
90-12-0	1-Methylnaphthalene	469		45	5.0
91-57-6	2-Methylnaphthalene	520		45	8.0
91-20-3	Naphthalene	584		45	5.0
85-01-8	Phenanthrene	1040		9.0	4.4
129-00-0	Pyrene	905		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03020.D
Lab Smp Id: 680-91719-A-21-B MS
Inj Date : 03-JUL-2013 15:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-21-B MS
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 18 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	15.330	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.700	2.689	(1.000)	3301952	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.725	(1.000)	1940043	40.0000	
* 11 Phenanthrene-d10	188	4.720	4.703	(1.000)	3134052	40.0000	
$ 15 o-Terphenyl	230	5.008	4.996	(1.061)	291127	4.47073	291.6329
* 19 Chrysene-d12	240	6.798	6.759	(1.000)	4200266	40.0000	(H)
* 24 Perylene-d12	264	7.909	7.860	(1.000)	4129662	40.0000	(H)
2 Naphthalene	128	2.711	2.705	(1.004)	667808	7.74601	505.2842
3 2-Methylnaphthalene	141	3.117	3.105	(1.154)	395927	6.89492	449.7663
4 1-Methylnaphthalene	142	3.170	3.164	(1.174)	423112	6.22520	406.0796
6 Acenaphthylene	152	3.646	3.634	(0.976)	611570	4.50442	293.8305
8 Acenaphthene	154	3.753	3.746	(1.004)	318617	4.53572	295.8720
10 Fluorene	166	4.078	4.067	(1.091)	421289	4.50406	293.8067
12 Phenanthrene	178	4.736	4.719	(1.003)	1325133	13.7709	898.2957(R)
13 Anthracene	178	4.768	4.756	(1.010)	769325	6.65773	434.2940

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.628	5.600	(1.192)	2177156	19.7536	1288.5585(R)
17 Pyrene	202	5.799	5.771	(0.853)	2033812	12.0102	783.4461
18 Benzo(a)anthracene	228	6.787	6.743	(0.998)	1602185	11.2435	733.4296(H)
20 Chrysene	228	6.814	6.781	(1.002)	1723550	12.5278	817.2060(H)
21 Benzo(b)fluoranthene	252	7.626	7.577	(0.964)	2376409	18.1815	1186.0070(R)
22 Benzo(k)fluoranthene	252	7.642	7.598	(0.966)	958423	6.37461	415.8259(H)
23 Benzo(a)pyrene	252	7.855	7.812	(0.993)	1236549	10.1229	660.3300(H)
25 Indeno(1,2,3-cd)pyrene	276	8.790	8.715	(1.111)	717958	6.58409	429.4905(MH)
26 Dibenzo(a,h)anthracene	278	8.812	8.741	(1.114)	477040	4.41486	287.9881(H)
27 Benzo(g,h,i)perylene	276	9.052	8.966	(1.145)	581433	5.00735	326.6370(H)

QC Flag Legend

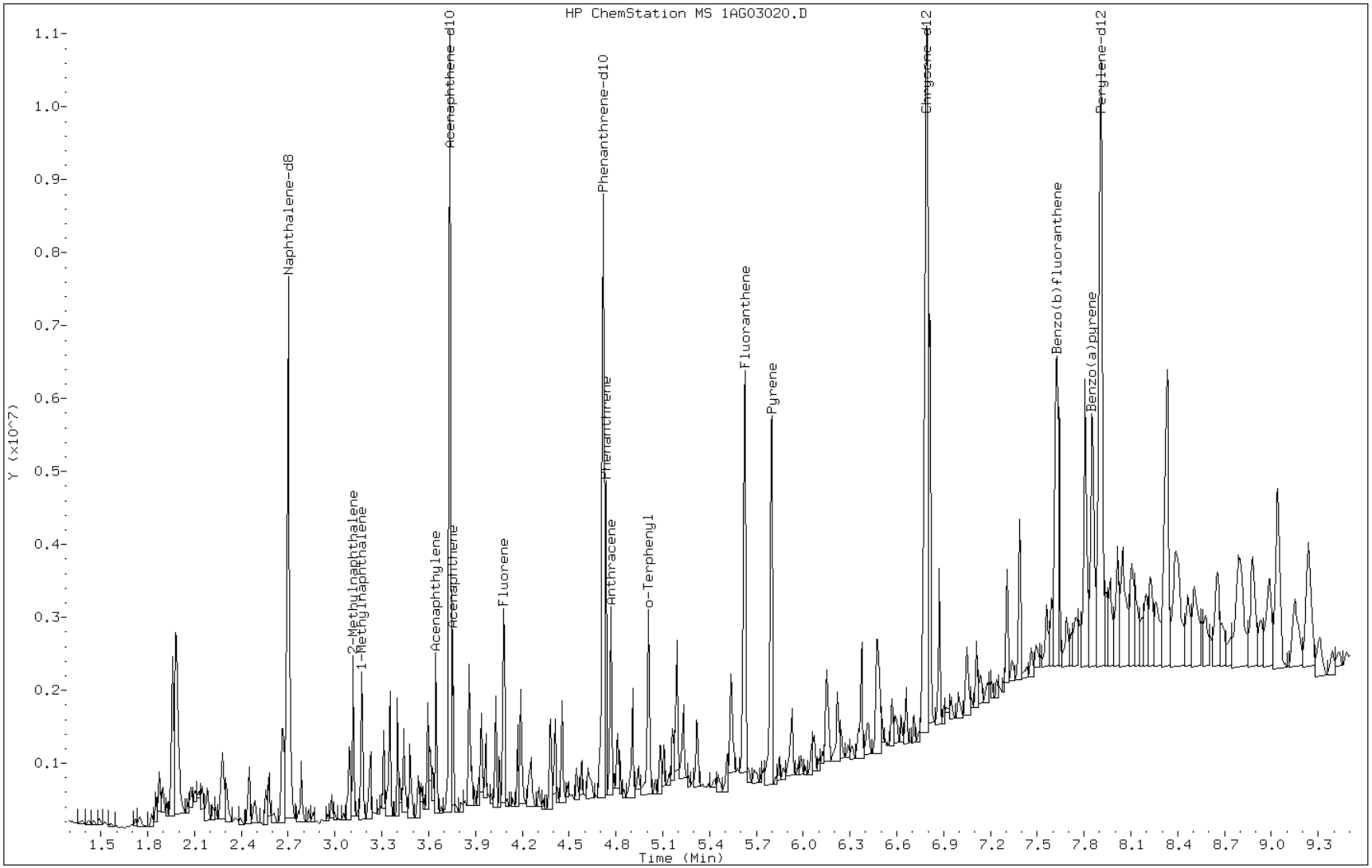
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03020.D

Date: 03-JUL-2013 15:39

Client ID: Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-B MS Operator: SCC



Manual Integration Report

Data File: 1AG03020.D
Inj. Date and Time: 03-JUL-2013 15:39
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

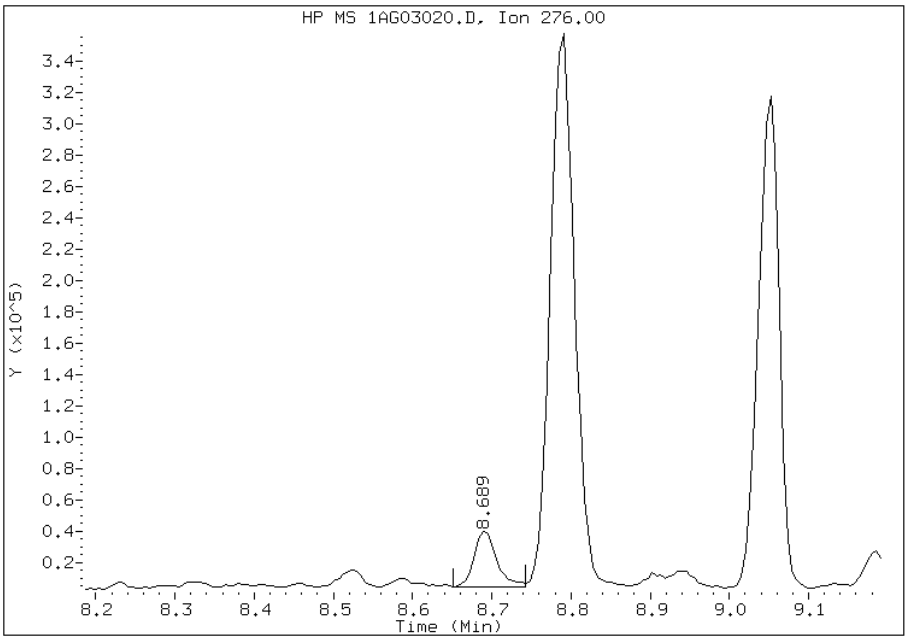
Processing Integration Results

RT: 8.69

Response: 69038

Amount: 1

Conc: 41



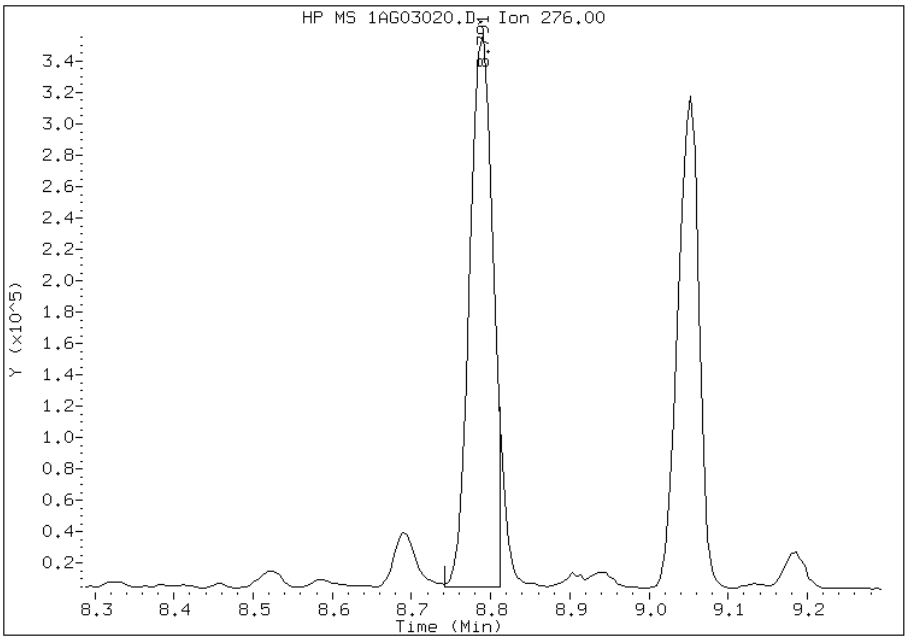
Manual Integration Results

RT: 8.79

Response: 717958

Amount: 7

Conc: 429



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-91719-2
SDG No.: 68091719-2
Client Sample ID:
Lab Sample ID: 680-91719-A-17-C MSD
Matrix: Solid
Lab File ID: 1AG03027.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 07/03/2013 07:27
Sample wt/vol: 15.00(g)
Date Analyzed: 07/03/2013 17:25
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 10.3
GPC Cleanup:(Y/N) N
Analysis Batch No.: 139084
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	340		110	22
208-96-8	Acenaphthylene	340		45	5.6
120-12-7	Anthracene	467		9.4	4.7
56-55-3	Benzo[a]anthracene	811		8.9	4.3
50-32-8	Benzo[a]pyrene	773		12	5.8
205-99-2	Benzo[b]fluoranthene	1350		14	6.8
191-24-2	Benzo[g,h,i]perylene	353		22	4.9
207-08-9	Benzo[k]fluoranthene	518		8.9	4.0
218-01-9	Chrysene	925		10	5.0
53-70-3	Dibenz(a,h)anthracene	350		22	4.6
206-44-0	Fluoranthene	1430		22	4.5
86-73-7	Fluorene	335		22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	449		22	7.9
90-12-0	1-Methylnaphthalene	483		45	4.9
91-57-6	2-Methylnaphthalene	539		45	7.9
91-20-3	Naphthalene	524		45	4.9
85-01-8	Phenanthrene	838		8.9	4.3
129-00-0	Pyrene	798		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03027.D
Lab Smp Id: 680-91719-A-17-C MS
Inj Date : 03-JUL-2013 17:25
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-17-C MSD
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 26 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	15.000	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	2.701	2.689	(1.000)	3122555	40.0000	
* 7 Acenaphthene-d10	164	3.743	3.725	(1.000)	1908154	40.0000	
* 11 Phenanthrene-d10	188	4.726	4.703	(1.000)	2952351	40.0000	
$ 15 o-Terphenyl	230	5.014	4.996	(1.061)	312082	5.15271	343.5140
* 19 Chrysene-d12	240	6.804	6.759	(1.000)	4293164	40.0000	
* 24 Perylene-d12	264	7.915	7.860	(1.000)	3803744	40.0000	(H)
2 Naphthalene	128	2.712	2.705	(1.004)	574564	7.04734	469.8228
3 2-Methylnaphthalene	141	3.118	3.105	(1.154)	391355	7.24505	483.0033
4 1-Methylnaphthalene	142	3.177	3.164	(1.176)	415244	6.49176	432.7839
6 Acenaphthylene	152	3.652	3.634	(0.976)	609497	4.56936	304.6240
8 Acenaphthene	154	3.759	3.746	(1.004)	315729	4.57253	304.8350
10 Fluorene	166	4.085	4.067	(1.091)	414439	4.50493	300.3283
12 Phenanthrene	178	4.742	4.719	(1.003)	1060306	11.2718	751.4539
13 Anthracene	178	4.774	4.756	(1.010)	688012	6.28276	418.8509

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.634	5.600	(1.192)	2003487	19.1727	1278.1808(R)
17 Pyrene	202	5.805	5.771	(0.853)	1857826	10.7336	715.5724
18 Benzo(a)anthracene	228	6.793	6.743	(0.998)	1588868	10.9059	727.0586
20 Chrysene	228	6.820	6.781	(1.002)	1749764	12.4431	829.5400
21 Benzo(b)fluoranthene	252	7.632	7.577	(0.964)	2188954	18.1823	1212.1512(RH)
22 Benzo(k)fluoranthene	252	7.648	7.598	(0.966)	958933	6.96621	464.4140(H)
23 Benzo(a)pyrene	252	7.862	7.812	(0.993)	1170361	10.4020	693.4635(H)
25 Indeno(1,2,3-cd)pyrene	276	8.802	8.715	(1.112)	607132	6.04482	402.9877(MH)
26 Dibenzo(a,h)anthracene	278	8.818	8.741	(1.114)	468890	4.71125	314.0833(H)
27 Benzo(g,h,i)perylene	276	9.064	8.966	(1.145)	508033	4.75010	316.6736(H)

QC Flag Legend

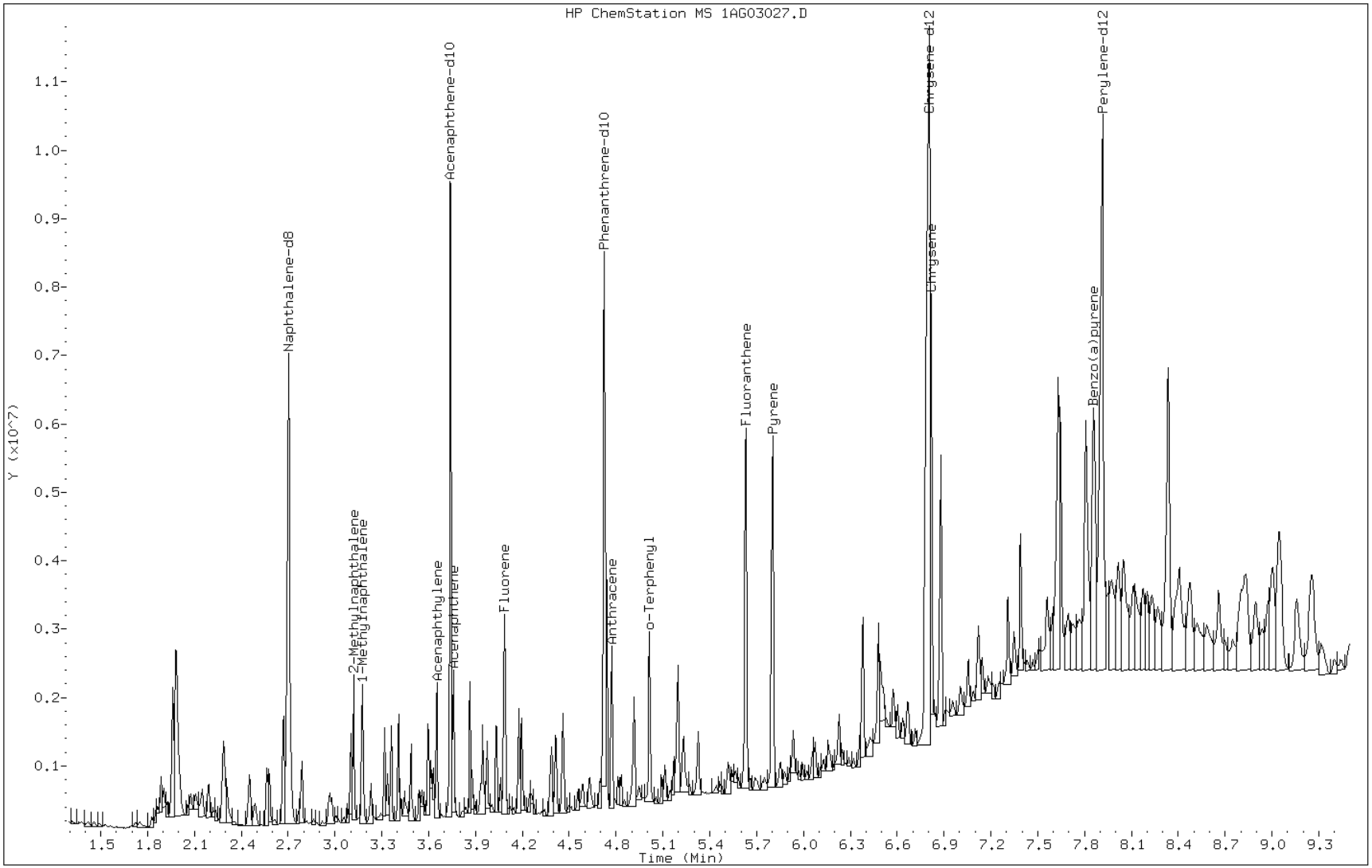
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03027.D

Date: 03-JUL-2013 17:25

Client ID: Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-C MSD Operator: SCC



Manual Integration Report

Data File: 1AG03027.D
Inj. Date and Time: 03-JUL-2013 17:25
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/05/2013

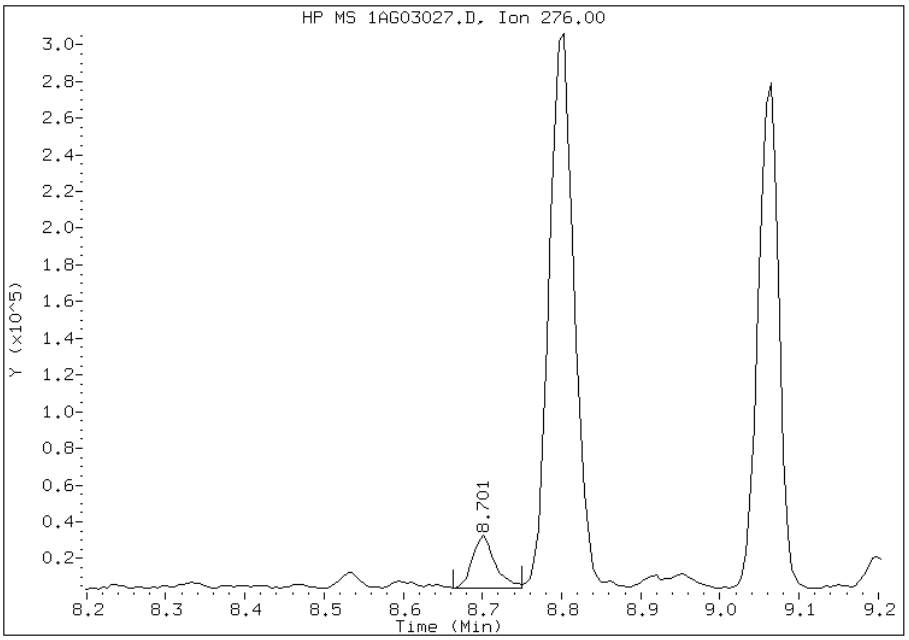
Processing Integration Results

RT: 8.70

Response: 55251

Amount: 1

Conc: 37



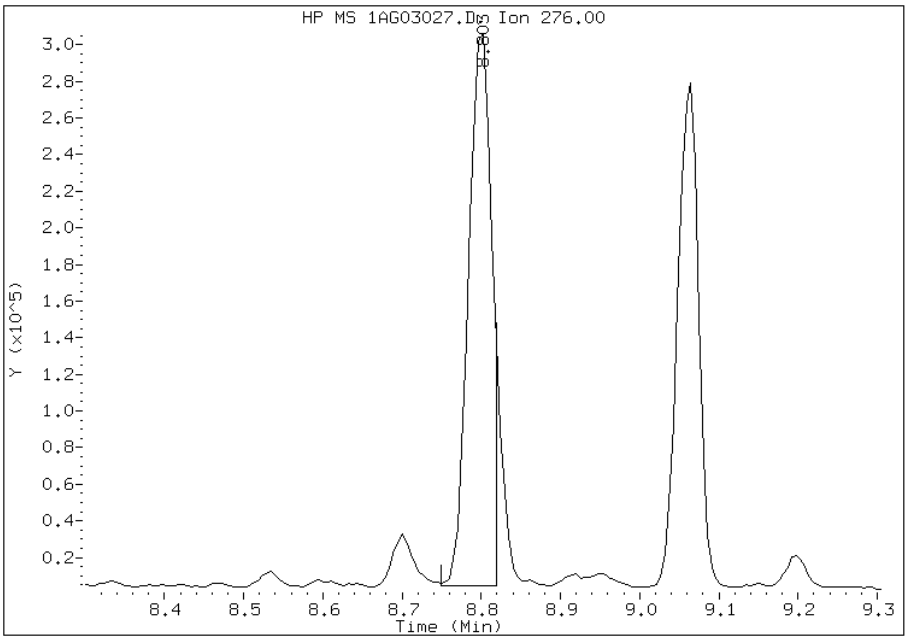
Manual Integration Results

RT: 8.80

Response: 607132

Amount: 6

Conc: 403



Manually Integrated By: cantins
Modification Date: 05-Jul-2013 11:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: CV1363O-CS MSD | Lab Sample ID: 680-91719-21 MSD

Matrix: Solid | Lab File ID: 1AG03021.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 09:25

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.04(g) | Date Analyzed: 07/03/2013 15:54

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.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	336		120	23
208-96-8	Acenaphthylene	345		46	5.8
120-12-7	Anthracene	565		9.7	4.8
56-55-3	Benzo[a]anthracene	1040		9.2	4.5
50-32-8	Benzo[a]pyrene	919		12	6.0
205-99-2	Benzo[b]fluoranthene	1430		14	7.0
191-24-2	Benzo[g,h,i]perylene	413		23	5.1
207-08-9	Benzo[k]fluoranthene	744		9.2	4.1
218-01-9	Chrysene	1050		10	5.2
53-70-3	Dibenz(a,h)anthracene	393		23	4.7
206-44-0	Fluoranthene	2060		23	4.6
86-73-7	Fluorene	347		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	536		23	8.2
90-12-0	1-Methylnaphthalene	484		46	5.1
91-57-6	2-Methylnaphthalene	551		46	8.2
91-20-3	Naphthalene	600		46	5.1
85-01-8	Phenanthrene	1290		9.2	4.5
129-00-0	Pyrene	1130		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03021.D
Lab Smp Id: 680-91719-A-21-C MS
Inj Date : 03-JUL-2013 15:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-21-C MSD
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 19 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	15.040	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	2.700	2.689	(1.000)	3244404	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.725	(1.000)	1955039	40.0000	
* 11 Phenanthrene-d10	188	4.725	4.703	(1.000)	3103695	40.0000	
$ 15 o-Terphenyl	230	5.008	4.996	(1.060)	272582	4.20642	279.6821
* 19 Chrysene-d12	240	6.798	6.759	(1.000)	4236456	40.0000	(H)
* 24 Perylene-d12	264	7.914	7.860	(1.000)	4002060	40.0000	(H)
2 Naphthalene	128	2.711	2.705	(1.004)	661131	7.80458	518.9217
3 2-Methylnaphthalene	141	3.117	3.105	(1.154)	403214	7.17687	477.1852
4 1-Methylnaphthalene	142	3.176	3.164	(1.176)	419777	6.29349	418.4502
6 Acenaphthylene	152	3.651	3.634	(0.977)	614939	4.49365	298.7801
8 Acenaphthene	154	3.753	3.746	(1.004)	309941	4.36628	290.3115
10 Fluorene	166	4.079	4.067	(1.091)	425821	4.51850	300.4323
12 Phenanthrene	178	4.736	4.719	(1.002)	1533802	16.7617	1114.4718(R)
13 Anthracene	178	4.773	4.756	(1.010)	831779	7.35000	488.6967

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.628	5.600	(1.191)	2725406	26.8181	1783.1150(R)
17 Pyrene	202	5.799	5.771	(0.853)	2518893	14.7477	980.5652(R)
18 Benzo(a)anthracene	228	6.787	6.743	(0.998)	1936960	13.4958	897.3302(RH)
20 Chrysene	228	6.814	6.781	(1.002)	1892966	13.6416	907.0242(RH)
21 Benzo(b)fluoranthene	252	7.626	7.577	(0.964)	2352256	18.5705	1234.7410(RH)
22 Benzo(k)fluoranthene	252	7.642	7.598	(0.966)	1361661	9.67962	643.5920(H)
23 Benzo(a)pyrene	252	7.855	7.812	(0.993)	1415682	11.9588	795.1345(H)
25 Indeno(1,2,3-cd)pyrene	276	8.796	8.715	(1.111)	737232	6.97641	463.8568(MH)
26 Dibenzo(a,h)anthracene	278	8.817	8.741	(1.114)	534908	5.10825	339.6441(H)
27 Benzo(g,h,i)perylene	276	9.063	8.966	(1.145)	605284	5.37896	357.6434(H)

QC Flag Legend

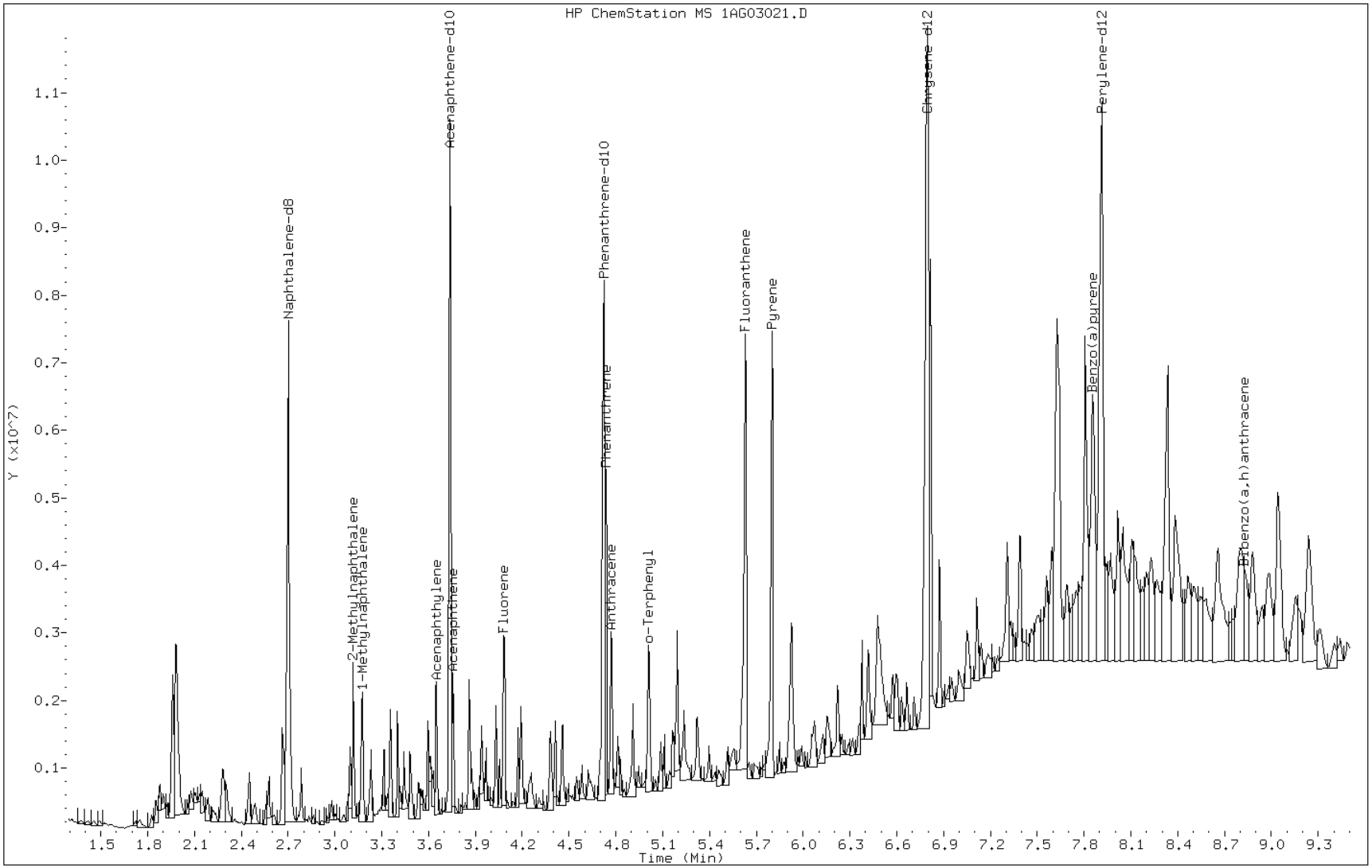
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03021.D

Date: 03-JUL-2013 15:54

Client ID: Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-C MSD Operator: SCC



Manual Integration Report

Data File: 1AG03021.D
Inj. Date and Time: 03-JUL-2013 15:54
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

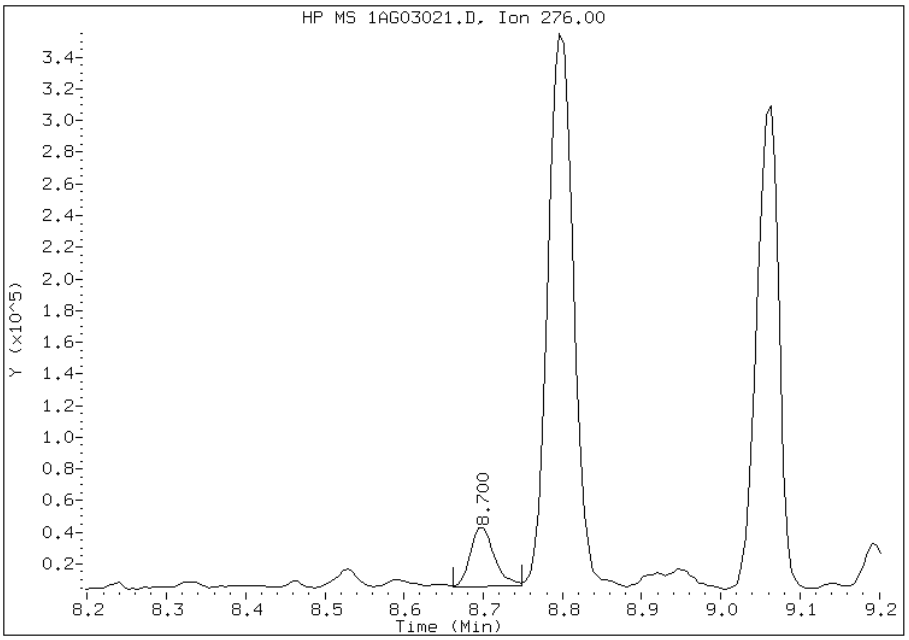
Processing Integration Results

RT: 8.70

Response: 77872

Amount: 1

Conc: 49



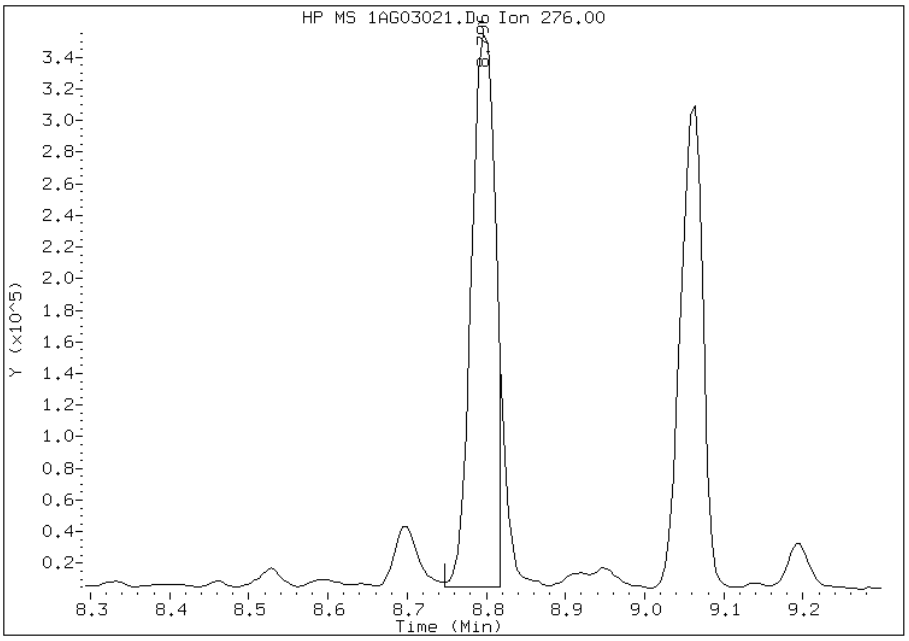
Manual Integration Results

RT: 8.80

Response: 737232

Amount: 7

Conc: 464



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-2

SDG No.: 68091719-2

Client Sample ID: 062513-RB-Shovel DU | Lab Sample ID: 680-91719-35 DU

Matrix: Water | Lab File ID: 1AG02023.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 10:30

Extract. Method: 3520C | Date Extracted: 06/27/2013 09:53

Sample wt/vol: 1050(mL) | Date Analyzed: 07/02/2013 16:45

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.: 139030 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1.9	U	1.9	0.48
208-96-8	Acenaphthylene	0.95	U	0.95	0.24
120-12-7	Anthracene	0.19	U	0.19	0.072
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.048
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.054
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.048
191-24-2	Benzo[g,h,i]perylene	0.48	U	0.48	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.054
218-01-9	Chrysene	0.19	U	0.19	0.066
53-70-3	Dibenz(a,h)anthracene	0.19	U	0.19	0.048
206-44-0	Fluoranthene	0.48	U	0.48	0.051
86-73-7	Fluorene	1.9	U	1.9	0.48
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.048
90-12-0	1-Methylnaphthalene	1.9	U	1.9	0.48
91-57-6	2-Methylnaphthalene	1.9	U	1.9	0.48
91-20-3	Naphthalene	1.9	U	1.9	0.24
85-01-8	Phenanthrene	0.48	U	0.48	0.19
129-00-0	Pyrene	0.48	U	0.48	0.085

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02023.D
Lab Smp Id: 680-91719-a-35-a du
Inj Date : 02-JUL-2013 16:45
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-35-a du
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 23 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/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	1050.000	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

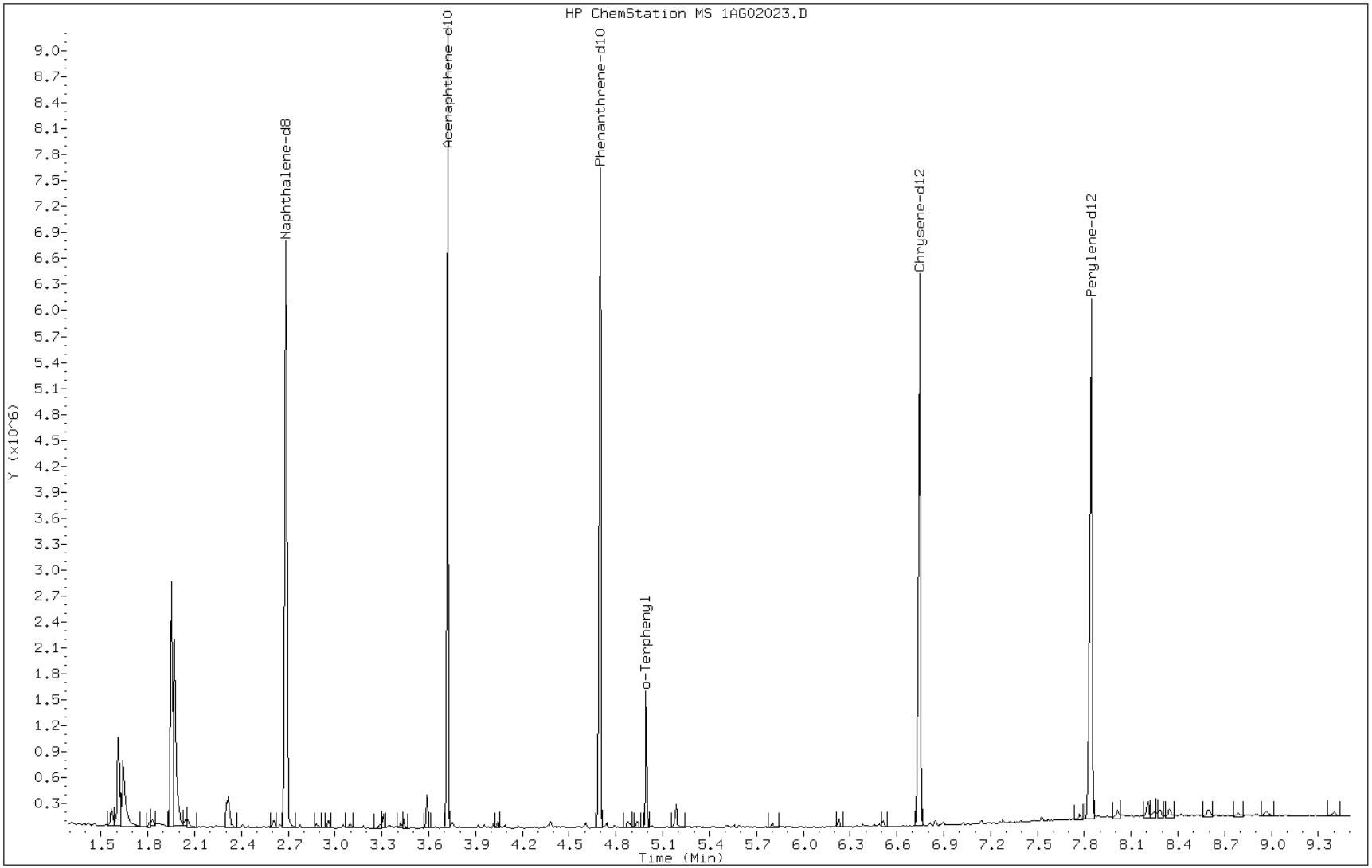
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.683	2.683	(1.000)	2970648	40.0000	
* 7 Acenaphthene-d10	164	3.719	3.719	(1.000)	1670183	40.0000	
* 11 Phenanthrene-d10	188	4.697	4.697	(1.000)	2566493	40.0000	
$ 15 o-Terphenyl	230	4.991	4.996	(1.063)	246799	4.64294	4.4218
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	2548687	40.0000	
* 24 Perylene-d12	264	7.849	7.849	(1.000)	2777301	40.0000	

Data File: 1AG02023.D

Date: 02-JUL-2013 16:45

Client ID: Instrument: BSMA5973.i

Sample Info: 680-91719-a-35-a du Operator: SCC



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Start Date: 06/11/2013 13:30

Analysis Batch Number: 138314 End Date: 06/11/2013 22:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/11/2013 13:30	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 13:45	1		DB-5MS 250(um)
DFTPP 660-138314/2		06/11/2013 14:00	1		DB-5MS 250(um)
DFTPP 660-138314/3		06/11/2013 14:14	1	1AF11003.D	DB-5MS 250(um)
ICIS 660-138314/4		06/11/2013 14:27	1	1AF11004.D	DB-5MS 250(um)
IC 660-138314/5		06/11/2013 14:58	1	1AF11005.D	DB-5MS 250(um)
IC 660-138314/6		06/11/2013 15:13	1	1AF11006.D	DB-5MS 250(um)
IC 660-138314/7		06/11/2013 15:28	1	1AF11007.D	DB-5MS 250(um)
IC 660-138314/8		06/11/2013 15:43	1	1AF11008.D	DB-5MS 250(um)
IC 660-138314/9		06/11/2013 15:58	1	1AF11009.D	DB-5MS 250(um)
IC 660-138314/10		06/11/2013 16:13	1	1AF11010.D	DB-5MS 250(um)
ICV 660-138314/11		06/11/2013 16:33	1	1AF11011.D	DB-5MS 250(um)
ZZZZZ		06/11/2013 16:48	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 17:03	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 17:33	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 17:48	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 18:03	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 18:18	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 18:33	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 18:48	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 19:04	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 19:34	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 19:49	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 20:04	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 20:19	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 20:34	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 20:49	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 21:04	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 21:19	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 21:34	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 21:49	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 22:04	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 22:19	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 22:34	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Start Date: 07/02/2013 10:46

Analysis Batch Number: 139030 End Date: 07/02/2013 23:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/02/2013 10:46	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 11:01	1		DB-5MS 250(um)
DFTPP 660-139030/2		07/02/2013 11:16	1	1AG02002.D	DB-5MS 250(um)
CCVIS 660-139030/3		07/02/2013 11:29	1	1AG02003.D	DB-5MS 250(um)
ZZZZZ		07/02/2013 11:44	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 11:59	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 12:14	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 12:30	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 12:44	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 12:59	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 13:15	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 13:45	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 14:00	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 14:15	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 14:30	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 15:00	1		DB-5MS 250(um)
MB 660-138871/1-A		07/02/2013 15:15	1	1AG02017.D	DB-5MS 250(um)
LCS 660-138871/2-A		07/02/2013 15:30	1	1AG02018.D	DB-5MS 250(um)
ZZZZZ		07/02/2013 15:45	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 16:00	1		DB-5MS 250(um)
680-91719-35	062513-RB-Shovel	07/02/2013 16:15	1	1AG02021.D	DB-5MS 250(um)
680-91637-B-41-A MS		07/02/2013 16:30	1	1AG02022.D	DB-5MS 250(um)
680-91719-35 DU	062513-RB-Shovel DU	07/02/2013 16:45	1	1AG02023.D	DB-5MS 250(um)
ZZZZZ		07/02/2013 17:00	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 17:16	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 17:31	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 17:46	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 18:01	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 18:16	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 18:31	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 18:46	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 19:16	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 19:31	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 19:46	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 20:01	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 20:16	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 20:31	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 20:46	4		DB-5MS 250(um)
ZZZZZ		07/02/2013 21:01	4		DB-5MS 250(um)
ZZZZZ		07/02/2013 21:16	4		DB-5MS 250(um)
ZZZZZ		07/02/2013 21:31	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 21:46	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 22:02	4		DB-5MS 250(um)

8270C LL

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Start Date: 07/02/2013 10:46

Analysis Batch Number: 139030 End Date: 07/02/2013 23:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/02/2013 22:17	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 22:32	4		DB-5MS 250(um)
ZZZZZ		07/02/2013 22:47	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 23:02	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Start Date: 07/03/2013 10:37

Analysis Batch Number: 139084 End Date: 07/03/2013 19:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/03/2013 10:37	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 10:53	1		DB-5MS 250(um)
DFTPP 660-139084/2		07/03/2013 11:08	1	1AG03002.D	DB-5MS 250(um)
CCVIS 660-139084/3		07/03/2013 11:21	1	1AG03003.D	DB-5MS 250(um)
ZZZZZ		07/03/2013 11:37	1		DB-5MS 250(um)
MB 660-139005/1-A		07/03/2013 11:53	1	1AG03005.D	DB-5MS 250(um)
LCS 660-139005/2-A		07/03/2013 12:08	1	1AG03006.D	DB-5MS 250(um)
ZZZZZ		07/03/2013 12:23	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 12:38	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 12:53	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 13:09	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 13:24	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 13:39	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 13:54	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 14:09	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 14:24	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 14:54	1		DB-5MS 250(um)
680-91719-21	CV1363O-CS	07/03/2013 15:09	1	1AG03018.D	DB-5MS 250(um)
ZZZZZ		07/03/2013 15:24	4		DB-5MS 250(um)
680-91719-21 MS	CV1363O-CS MS	07/03/2013 15:39	1	1AG03020.D	DB-5MS 250(um)
680-91719-21 MSD	CV1363O-CS MSD	07/03/2013 15:54	1	1AG03021.D	DB-5MS 250(um)
MB 660-139049/1-A		07/03/2013 16:09	1	1AG03022.D	DB-5MS 250(um)
LCS 660-139049/2-A		07/03/2013 16:24	1	1AG03023.D	DB-5MS 250(um)
ZZZZZ		07/03/2013 16:40	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 16:55	1		DB-5MS 250(um)
680-91719-A-17-B MS		07/03/2013 17:10	1	1AG03026.D	DB-5MS 250(um)
680-91719-A-17-C MSD		07/03/2013 17:25	1	1AG03027.D	DB-5MS 250(um)
ZZZZZ		07/03/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 18:10	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 18:25	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 18:40	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 18:55	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 19:10	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 19:25	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 19:40	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: BSMA5973 Start Date: 07/07/2013 10:26

Analysis Batch Number: 139145 End Date: 07/07/2013 20:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/07/2013 10:26	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 10:44	1		DB-5MS 250(um)
DFTPP 660-139145/2		07/07/2013 10:59	1		DB-5MS 250(um)
CCVIS 660-139145/3		07/07/2013 11:14	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 13:22	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 13:38	1		DB-5MS 250(um)
DFTPP 660-139145/6		07/07/2013 13:53	1	1AG07005.D	DB-5MS 250(um)
ICIS 660-139145/7		07/07/2013 14:06	1	1AG07006.D	DB-5MS 250(um)
IC 660-139145/8		07/07/2013 14:31	1	1AG07007.D	DB-5MS 250(um)
IC 660-139145/9		07/07/2013 14:46	1	1AG07008.D	DB-5MS 250(um)
IC 660-139145/10		07/07/2013 15:01	1	1AG07009.D	DB-5MS 250(um)
IC 660-139145/11		07/07/2013 15:16	1	1AG07010.D	DB-5MS 250(um)
IC 660-139145/12		07/07/2013 15:31	1	1AG07011.D	DB-5MS 250(um)
IC 660-139145/13		07/07/2013 15:46	1	1AG07012.D	DB-5MS 250(um)
ICV 660-139145/14		07/07/2013 16:01	1	1AG07013.D	DB-5MS 250(um)
ZZZZZ		07/07/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:09	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:23	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:39	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:54	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 18:09	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 18:24	1		DB-5MS 250(um)
680-91719-22	CV1363P-CS	07/07/2013 18:39	1	1AG07021.D	DB-5MS 250(um)
680-91719-23	CV1363Q-CS	07/07/2013 18:54	1	1AG07022.D	DB-5MS 250(um)
680-91719-24	CV1363R-CS	07/07/2013 19:09	1	1AG07023.D	DB-5MS 250(um)
680-91719-25	CV1363R-CSD	07/07/2013 19:24	1	1AG07024.D	DB-5MS 250(um)
680-91719-26	CV1363S-CS	07/07/2013 19:39	1	1AG07025.D	DB-5MS 250(um)
680-91719-27	CV1363T-CS	07/07/2013 19:54	1	1AG07026.D	DB-5MS 250(um)
680-91719-28	CV1363U-CS	07/07/2013 20:09	1	1AG07027.D	DB-5MS 250(um)
680-91719-29	CV1363V-CS	07/07/2013 20:24	1	1AG07028.D	DB-5MS 250(um)
680-91719-30	CV1363V-CSD	07/07/2013 20:39	1	1AG07029.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Batch Number: 138871 Batch Start Date: 06/27/13 09:53 Batch Analyst: George, Abraham

Batch Method: 3520C Batch End Date: 06/28/13 14:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EX-625LVI SPK 00023
MB 660-138871/1		3520C, 8270C LL		8	1000 mL	1 mL	8	<2	
LCS 660-138871/2		3520C, 8270C LL		8	1000 mL	1 mL	8	<2	1 mL
680-91719-B-35	062513-RB-Shovel	3520C, 8270C LL	T	8	1050 mL	1 mL	8	<2	
680-91637-B-41 MS		3520C, 8270C LL	T	8	1040 mL	1 mL	8	<2	1 mL
680-91719-A-35 DU	062513-RB-Shovel	3520C, 8270C LL	T	8	1050 mL	1 mL	8	<2	

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXLLSURINT 00184					
MB 660-138871/1		3520C, 8270C LL		1 mL					
LCS 660-138871/2		3520C, 8270C LL		1 mL					
680-91719-B-35	062513-RB-Shovel	3520C, 8270C LL	T	1 mL					
680-91637-B-41 MS		3520C, 8270C LL	T	1 mL					
680-91719-A-35 DU	062513-RB-Shovel	3520C, 8270C LL	T	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.: 680-91719-2

SDG No.: 68091719-2

Batch Number: 138871 Batch Start Date: 06/27/13 09:53 Batch Analyst: George, Abraham

Batch Method: 3520C Batch End Date: 06/28/13 14:45

Batch Notes	
Acid used for pH adjustment	10H2S04
Acid used for pH adjust Lot #	EX-10H2S04 6
Batch Comment	NONE
Concentration End Time	14:45 6/28/13
Concentration Start Time	13:10 6/28/13
Person's name who did the concentration	AG
Time the first extraction ended 24hr	14:35 6/27/13
Time the first extraction started 24 hr	10:35 6/27/13
pH Paper Lot Number	HC273036
Prep Solvent Lot #	EX-MC CYCL 58
Prep Solvent Name	DCM
Prep Solvent Volume Used	210 mL
Person's name who did the prep	AG
Person's name who witnessed reagent drop	SC
Sufficient volume for MS/MSD?	MS ONLY
Water Bath ID	TURBOVAP2 #1
Water Bath Temperature	40 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Batch Number: 139005 Batch Start Date: 07/02/13 07:50 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 07/02/13 17:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00024	EXLLSURINT 00184		
MB 660-139005/1		3546, 8270C LL		15.02 g	1 mL		1 mL		
LCS 660-139005/2		3546, 8270C LL		14.98 g	1 mL	1 mL	1 mL		
680-91719-A-21	CV1363O-CS	3546, 8270C LL	T	14.81 g	1 mL		1 mL		
680-91719-A-21 MS	CV1363O-CS	3546, 8270C LL	T	15.33 g	1 mL	1 mL	1 mL		
680-91719-A-21 MSD	CV1363O-CS	3546, 8270C LL	T	15.04 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	ID:EX-ACETON BOT_00053(1551084)
Balance ID	B001
Person's name who did the concentration	RYAN NOLAN
Exchange Solvent Lot #	ex-mc cycl 57
Exchange Solvent Name	dcm
Final Concentrator Volume	1 mL
MeCL2 Lot #	ID:EX-MC CYCL_00058(1560904)
MeCl2/Acetone Lot #	ID:DCM/ACETON_00097(1576428)
Microwave Start Time	10:45 7/2/13
Microwave Stop Time	11:20 7/2/13
MS Lot Number	91719-21
Na2SO4 Lot Number	ID:EX-NA2SO4A_00069(1573471)
Ottawa Sand Lot #	ID:OTTAWA SAND_00022(1576429)
Person's name who did the prep	RYAN NOLAN
SOP Number	TP014
Person who witnessed spiking	SAUREL CEROME
Surrogate Lot Number	ID:EXLLSURINT_00184(1569137)
Water Bath ID	TURBO VAP # 1-4
Water Bath Temperature	40

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.: 680-91719-2

SDG No.: 68091719-2

Batch Number: 139005 Batch Start Date: 07/02/13 07:50 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 07/02/13 17:38

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Batch Number: 139049 Batch Start Date: 07/03/13 07:27 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 07/03/13 16:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00024	EXLLSURINT 00184		
MB 660-139049/1		3546, 8270C LL		14.96 g	1 mL		1 mL		
LCS 660-139049/2		3546, 8270C LL		15.15 g	1 mL	1 mL	1 mL		
680-91719-A-17 MS		3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		
680-91719-A-17 MSD		3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		
680-91719-A-22	CV1363P-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-91719-A-23	CV1363Q-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-91719-A-24	CV1363R-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-91719-A-25	CV1363R-CSD	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-91719-A-26	CV1363S-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-91719-A-27	CV1363T-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-91719-A-28	CV1363U-CS	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-91719-A-29	CV1363V-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-91719-A-30	CV1363V-CSD	3546, 8270C LL	T	15.00 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.: 680-91719-2

SDG No.: 68091719-2

Batch Number: 139049 Batch Start Date: 07/03/13 07:27 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 07/03/13 16:50

Batch Notes	
Acetone Lot #	EX-ACETON BOT 53
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 57
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 57
MeCl2/Acetone Lot #	DCM/ACETON 97
Microwave Start Time	8:00 7/3/13
Microwave Stop Time	8:35 7/3/13
Na2SO4 Lot Number	EX-NA2S04A 70
Ottawa Sand Lot #	EX-OTTOWA SAND 22
Person's name who did the prep	SAUREL/RYAN
SOP Number	TP-EX014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT 184
Water Bath ID	TURBOVAP2 #1-3
Water Bath Temperature	40 C for all

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: 680-91719-2

SDG No.: 68091719-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1363O-CS	680-91719-21
CV1363P-CS	680-91719-22
CV1363Q-CS	680-91719-23
CV1363R-CS	680-91719-24
CV1363R-CSD	680-91719-25
CV1363S-CS	680-91719-26
CV1363T-CS	680-91719-27
CV1363U-CS	680-91719-28
CV1363V-CS	680-91719-29
CV1363V-CSD	680-91719-30

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-91719-2

SDG Number: 68091719-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-91719-2

SDG Number: 68091719-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-91719-2

SDG Number: 68091719-2

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: 680-91719-2

SDG Number: 68091719-2

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.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: Moisture Method: Moisture

Start Date: 06/28/2013 06:21 End Date: 06/28/2013 11:52

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-138941/22	1	T	06:21	X																			
LCS 660-138941/1	1	T	06:22	X																			
ZZZZZZ			06:28																				
ZZZZZZ			06:31																				
ZZZZZZ			06:43																				
ZZZZZZ			06:50																				
ZZZZZZ			06:53																				
ZZZZZZ			07:00																				
680-91719-25	1	T	07:09	X																			
680-91719-26	1	T	07:12	X																			
680-91719-28	1	T	07:19	X																			
680-91719-27	1	T	07:23	X																			
ZZZZZZ			08:05																				
ZZZZZZ			08:29																				
ZZZZZZ			08:49																				
ZZZZZZ			09:32																				
ZZZZZZ			09:52																				
ZZZZZZ			10:05																				
ZZZZZZ			11:35																				
ZZZZZZ			11:36																				
ZZZZZZ			11:51																				
ZZZZZZ			11:52																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/28/2013 06:28 End Date: 06/28/2013 07:03

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
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ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
680-91719-21	1	T	06:28	X																			
680-91719-21 MS	1	T	06:28	X																			
680-91719-21 MSD	1	T	06:28	X																			
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
680-91719-24	1	T	07:03	X																			
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/28/2013 06:28 End Date: 06/28/2013 07:03

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
680-91719-22	1	T	07:03	X																			
680-91719-23	1	T	07:03	X																			
680-91719-29	1	T	07:03	X																			
680-91719-30	1	T	07:03	X																			
ZZZZZZ			07:03																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Batch Number: 138912 Batch Start Date: 06/28/13 06:28 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-91719-A-21	CV1363O-CS	Moisture	T	22	0 g	4.75 g	4.11 g		
680-91719-A-21 MS	CV1363O-CS	Moisture	T	22	0 g	4.75 g	4.11 g		
680-91719-A-21 MSD	CV1363O-CS	Moisture	T	22	0 g	4.75 g	4.11 g		
680-91719-A-24	CV1363R-CS	Moisture	T	32	0 g	4.60 g	3.91 g		
680-91719-A-22	CV1363P-CS	Moisture	T	41	0 g	4.59 g	4.03 g		
680-91719-A-23	CV1363Q-CS	Moisture	T	42	0 g	4.61 g	3.98 g		
680-91719-A-29	CV1363V-CS	Moisture	T	43	0 g	4.54 g	3.80 g		
680-91719-A-30	CV1363V-CSD	Moisture	T	44	0 g	4.31 g	3.64 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	6.28.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-2

SDG No.: 68091719-2

Batch Number: 138941 Batch Start Date: 06/28/13 06:21 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-138941/1		Moisture		0 g	10.028 g	9.025 g			
680-91719-A-25	CV1363R-CSD	Moisture	T	0 g	4.757 g	4.015 g			
680-91719-A-27	CV1363T-CS	Moisture	T	0 g	4.741 g	4.183 g			
680-91719-A-28	CV1363U-CS	Moisture	T	0 g	4.716 g	4.1 g			
680-91719-A-26	CV1363S-CS	Moisture	T	0 g	4.31 g	3.807 g			
LCSD 660-138941/22		Moisture		0 g	10.037 g	9.024 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 64277

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: Test Am. Tampa

Phone: 680-91719
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005146-1356	AL
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com	
CLIENT ADDRESS: 1220 Kennesaw Circle Ste 106, Marietta, Ga 30066		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 3

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: 2 PAH; Rcras metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	2 PAH	Rcras metals	REMARKS
6-25-13	0755	CV1363H-CS	C					X		
	0751	CV1363I-CS	C					X	X	
	0803	CV1363J-CS	C					X		
	0803	CV1363J-CSD	C					X		
	0819	CV1363K-CS	C					X		
	0848	CV1363L-CS	C					X		
	0920	CV1363M-CS	C					X		
	0935	CV1363N-CS	C					X		
	0925	CV1363O-CS	C					X		
	0930	CV1363P-CS	C					X		
	0949	CV1363Q-CS	C					X		
	1003	CV1363R-CS	C					X		

680-91719-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	6-25-13	15:03		6/26/13	1600			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	6/26/13	0835						

LABORATORY USE ONLY

4.6°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	06/27/13	0805	YES ○ NO ○		680-91719	

TAL8240-680 (1008)

Serial Number 64278

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: Test Am Tampa
Phone: 680-91719
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 300546-1356	PROJECT LOCATION (STATE): AL	PAGE 3 OF 3
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ○ DATE DUE
CLIENT (SITE) PM: R Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com		
CLIENT ADDRESS: 1220 Kennestone Circle Ste 196 Marietta, Ga 30066			
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS / PRESERVATIVE: LBAH; RCRA 8 Metals

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LBAH	RCRA 8 Metals								REMARKS
6-25-13	1003	CV1363R-CSD	C		X			X									
	1110	CV1363S-CS	C		X			X	X								
	1111	CV1363T-CS	C		X			X									
	1125	CV1363U-CS	C		X			X									
	1125	CV1363V-CS	C		X			X									
	1125	CV1363V-CSD	C		X			X									
6-24-13	1245	CV1363AB-GS(sieve)	C		X				X								
6-24-13	1407	CV1363F-CS (sieve)	C		X				X								
6-25-13	0751	CV1363I-CS (sieve)	C		X				X								
6-25-13	1110	CV1363S-CS (sieve)	C		X				X								
6.25.13	1030	06025-RB-Shovel		X				X	X								

-LMH 6-28-13

680-91719-03 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Austin	6-25-13	15:03						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
	6/26/13	0835						

LABORATORY USE ONLY 4.6°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	06/27/13	0805	YES ○ NO ○		680-91719	

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-2
SDG Number: 68091719-2

Login Number: 91719
List Number: 1
Creator: Snead, Joshua

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.	False	-35 Sample: rec'd but not listed on COC
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: 680-91719-2
SDG Number: 68091719-2

Login Number: 91719
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 06/26/13 12:57 PM

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	