ANALYTICAL REPORT

Job Number: 680-86021-2

SDG Number: 68086021-2

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
1/3/2013 9:45 AM

Designee for
Lisa Harvey
Project Manager II
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01/03/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-86021-2

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 12/21/2012, a day late. These were the samples associate with the missing cooler from 12/20/2012. The ice had started to melt, and the temperature of the coolers at receipt was 7.2 C. Client was notified.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV0412B-CS (680-86021-21), CV0422A-CS-SP (680-86021-22), CV0421B-CS-SP (680-86021-23), CV0235C-CS (680-86021-24), CV0294A-CS (680-86021-25) and CV0627B-GS (680-86021-29) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270C. The samples were prepared on 12/28/2012 and analyzed on 12/31/2012.

Samples CV0412B-CS (680-86021-21)[10X], CV0422A-CS-SP (680-86021-22)[10X], CV0421B-CS-SP (680-86021-23)[10X], CV0235C-CS (680-86021-24)[10X], CV0294A-CS (680-86021-25)[10X] and CV0627B-GS (680-86021-29)[10X] required dilution prior to analysis. As such, surrogate recoveries are not reported, and elevated reporting limits (RLs) are provided. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Low-Level PAH analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-86021-2
Sdg Number: 68086021-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-86021-21	CV0412B-CS	Solid	12/18/2012 0950	12/21/2012 1158
680-86021-22	CV0422A-CS-SP	Solid	12/18/2012 1037	12/21/2012 1158
680-86021-23	CV0421B-CS-SP	Solid	12/18/2012 1357	12/21/2012 1158
680-86021-24	CV0235C-CS	Solid	12/18/2012 1540	12/21/2012 1158
680-86021-25	CV0294A-CS	Solid	12/18/2012 1410	12/21/2012 1158
680-86021-25MS	CV0294A-CS	Solid	12/18/2012 1410	12/21/2012 1158
680-86021-25MSD	CV0294A-CS	Solid	12/18/2012 1410	12/21/2012 1158
680-86021-29	CV0627B-GS	Solid	12/19/2012 0925	12/21/2012 1158

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-86021-2
Sdg Number: 68086021-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS) Low level PAH	TAL SAV	SW846 8270C_LL_PAH	
Microwave Extraction	TAL SAV		SW846 3546
Percent Moisture	TAL SAV	EPA Moisture	

Lab References:

TAL SAV = TestAmerica Savannah

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: 680-86021-2
Sdg Number: 68086021-2

Method	Analyst	Analyst ID
SW846 8270C_LL_PAH	Beaty, Van	VHB
EPA Moisture	Swafford, Frances	FS

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-86021-2
Sdg Number: 68086021-2

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-86021-2
Sdg Number: 68086021-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 680-261323					
LCS 680-261323/8-A	Lab Control Sample	T	Solid	3546	
MB 680-261323/7-A	Method Blank	T	Solid	3546	
680-86021-21	CV0412B-CS	T	Solid	3546	
680-86021-22	CV0422A-CS-SP	T	Solid	3546	
680-86021-23	CV0421B-CS-SP	T	Solid	3546	
680-86021-24	CV0235C-CS	T	Solid	3546	
680-86021-25	CV0294A-CS	T	Solid	3546	
680-86021-25MS	Matrix Spike	T	Solid	3546	
680-86021-25MSD	Matrix Spike Duplicate	T	Solid	3546	
680-86021-29	CV0627B-GS	T	Solid	3546	
Analysis Batch:680-261526					
LCS 680-261323/8-A	Lab Control Sample	T	Solid	8270C_LL_PAH	680-261323
MB 680-261323/7-A	Method Blank	T	Solid	8270C_LL_PAH	680-261323
680-86021-21	CV0412B-CS	T	Solid	8270C_LL_PAH	680-261323
680-86021-22	CV0422A-CS-SP	T	Solid	8270C_LL_PAH	680-261323
680-86021-23	CV0421B-CS-SP	T	Solid	8270C_LL_PAH	680-261323
680-86021-24	CV0235C-CS	T	Solid	8270C_LL_PAH	680-261323
680-86021-25	CV0294A-CS	T	Solid	8270C_LL_PAH	680-261323
680-86021-25MS	Matrix Spike	T	Solid	8270C_LL_PAH	680-261323
680-86021-25MSD	Matrix Spike Duplicate	T	Solid	8270C_LL_PAH	680-261323
680-86021-29	CV0627B-GS	T	Solid	8270C_LL_PAH	680-261323

Report Basis
T = Total

General Chemistry

Analysis Batch:680-260998					
680-86021-21	CV0412B-CS	T	Solid	Moisture	
680-86021-22	CV0422A-CS-SP	T	Solid	Moisture	
680-86021-23	CV0421B-CS-SP	T	Solid	Moisture	
680-86021-24	CV0235C-CS	T	Solid	Moisture	
680-86021-25	CV0294A-CS	T	Solid	Moisture	
680-86021-25MS	Matrix Spike	T	Solid	Moisture	
680-86021-25MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-86021-29	CV0627B-GS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Instrument ID: MSY Analysis Batch Number: 261526

Lab Sample ID: 680-86021-25 MS Client Sample ID: CV0294A-CS MS

Date Analyzed: 12/31/12 16:12 Lab File ID: yl3111.d GC Column: HP-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	9.34	Unspecified		

Lab Sample ID: 680-86021-25 MSD Client Sample ID: CV0294A-CS MSD

Date Analyzed: 12/31/12 16:35 Lab File ID: yl3112.d GC Column: HP-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	9.34	Unspecified		

Lab Sample ID: 680-86021-21 Client Sample ID: CV0412B-CS

Date Analyzed: 12/31/12 16:57 Lab File ID: yl3113.d GC Column: HP-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.33	Unspecified		
Benzo[k]fluoranthene	9.34	Unspecified		

Lab Sample ID: 680-86021-22 Client Sample ID: CV0422A-CS-SP

Date Analyzed: 12/31/12 17:20 Lab File ID: yl3114.d GC Column: HP-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.33	Unspecified		
Benzo[k]fluoranthene	9.34	Unspecified		

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Instrument ID: MSY Analysis Batch Number: 261526

Lab Sample ID: 680-86021-23 Client Sample ID: CV0421B-CS-SP

Date Analyzed: 12/31/12 17:42 Lab File ID: yl3115.d GC Column: HP-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.33	Unspecified		
Benzo[k]fluoranthene	9.34	Unspecified		

Lab Sample ID: 680-86021-24 Client Sample ID: CV0235C-CS

Date Analyzed: 12/31/12 18:05 Lab File ID: yl3116.d GC Column: HP-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.33	Unspecified		
Benzo[k]fluoranthene	9.34	Unspecified		

Lab Sample ID: 680-86021-25 Client Sample ID: CV0294A-CS

Date Analyzed: 12/31/12 19:14 Lab File ID: yl3119.d GC Column: HP-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	9.35	Unspecified		

Lab Sample ID: 680-86021-29 Client Sample ID: CV0627B-GS

Date Analyzed: 12/31/12 20:22 Lab File ID: yl3122.d GC Column: HP-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	9.33	Unspecified		
Benzo[k]fluoranthene	9.34	Unspecified		

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 Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Matrix: Solid Level: Low

GC Column (1): HP-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	OTPH	#
CV0412B-CS	680-86021-21	0	D
CV0422A-CS-SP	680-86021-22	0	D
CV0421B-CS-SP	680-86021-23	69	D
CV0235C-CS	680-86021-24	0	D
CV0294A-CS	680-86021-25	0	D
CV0627B-GS	680-86021-29	0	D
	MB 680-261323/7-A	73	
	LCS 680-261323/8-A	48	
CV0294A-CS MS	680-86021-25 MS	0	D
CV0294A-CS MSD	680-86021-25 MSD	0	D

	QC LIMITS
OTPH = o-Terphenyl	36-131

Column to be used to flag recovery values

FORM II 8270C_LL_PAH

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Matrix: Solid Level: Low Lab File ID: yl3109.d

Lab ID: LCS 680-261323/8-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1-Methylnaphthalene	332	177	53	36-130	
2-Methylnaphthalene	332	191	57	42-130	
Acenaphthene	332	173	52	33-130	
Acenaphthylene	332	177	53	37-131	
Anthracene	332	171	52	42-146	
Benzo[a]anthracene	332	163	49	39-157	
Benzo[a]pyrene	332	188	56	41-158	
Benzo[b]fluoranthene	332	174	52	35-152	
Benzo[g,h,i]perylene	332	175	53	32-150	
Benzo[k]fluoranthene	332	187	56	38-148	
Chrysene	332	176	53	38-147	
Dibenz(a,h)anthracene	332	169	51	32-155	
Fluoranthene	332	166	50	36-147	
Fluorene	332	187	56	36-138	
Indeno[1,2,3-cd]pyrene	332	158	48	35-148	
Naphthalene	332	180	54	33-130	
Pyrene	332	167	50	38-145	
Phenanthrene	332	179	54	40-135	

Column to be used to flag recovery and RPD values

FORM III 8270C_LL_PAH

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Matrix: Solid Level: Low Lab File ID: yl3111.d

Lab ID: 680-86021-25 MS Client ID: CV0294A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1-Methylnaphthalene	495	100 U	336	68	36-130	
2-Methylnaphthalene	495	100 U	378	76	42-130	
Acenaphthene	495	100 U	315	64	33-130	
Acenaphthylene	495	100 U	310	62	37-131	
Anthracene	495	100 U	278	56	42-146	
Benzo[a]anthracene	495	110	386	56	39-157	
Benzo[a]pyrene	495	110	405	60	41-158	
Benzo[b]fluoranthene	495	170	467	59	35-152	
Benzo[g,h,i]perylene	495	79 J	338	52	32-150	
Benzo[k]fluoranthene	495	92 J	387	59	38-148	
Chrysene	495	170	441	55	38-147	
Dibenz(a,h)anthracene	495	100 U	275	55	32-155	
Fluoranthene	495	200	480	57	36-147	
Fluorene	495	100 U	325	66	36-138	
Indeno[1,2,3-cd]pyrene	495	62 J	285	45	35-148	
Naphthalene	495	100 U	334	67	33-130	
Pyrene	495	180	518	67	38-145	
Phenanthrene	495	120	434	62	40-135	

Column to be used to flag recovery and RPD values

FORM III 8270C_LL_PAH

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Matrix: Solid Level: Low Lab File ID: y13112.d

Lab ID: 680-86021-25 MSD Client ID: CV0294A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1-Methylnaphthalene	501	348	70	4	50	36-130	
2-Methylnaphthalene	501	388	77	3	50	42-130	
Acenaphthene	501	330	66	5	50	33-130	
Acenaphthylene	501	315	63	2	50	37-131	
Anthracene	501	302	60	8	50	42-146	
Benzo[a]anthracene	501	381	55	1	50	39-157	
Benzo[a]pyrene	501	408	60	1	50	41-158	
Benzo[b]fluoranthene	501	411	47	13	50	35-152	
Benzo[g,h,i]perylene	501	350	54	4	50	32-150	
Benzo[k]fluoranthene	501	451	72	15	50	38-148	
Chrysene	501	512	69	15	50	38-147	
Dibenz(a,h)anthracene	501	275	55	0	50	32-155	
Fluoranthene	501	467	54	3	50	36-147	
Fluorene	501	332	66	2	50	36-138	
Indeno[1,2,3-cd]pyrene	501	303	48	6	50	35-148	
Naphthalene	501	363	73	8	50	33-130	
Pyrene	501	492	61	5	50	38-145	
Phenanthrene	501	444	64	2	50	40-135	

Column to be used to flag recovery and RPD values

FORM III 8270C_LL_PAH

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Lab File ID: yl3107.d Lab Sample ID: MB 680-261323/7-A

Matrix: Solid Date Extracted: 12/28/2012 19:41

Instrument ID: MSY Date Analyzed: 12/31/2012 14:42

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-261323/8-A	yl3109.d	12/31/2012 15:27
CV0294A-CS MS	680-86021-25 MS	yl3111.d	12/31/2012 16:12
CV0294A-CS MSD	680-86021-25 MSD	yl3112.d	12/31/2012 16:35
CV0412B-CS	680-86021-21	yl3113.d	12/31/2012 16:57
CV0422A-CS-SP	680-86021-22	yl3114.d	12/31/2012 17:20
CV0421B-CS-SP	680-86021-23	yl3115.d	12/31/2012 17:42
CV0235C-CS	680-86021-24	yl3116.d	12/31/2012 18:05
CV0294A-CS	680-86021-25	yl3119.d	12/31/2012 19:14
CV0627B-GS	680-86021-29	yl3122.d	12/31/2012 20:22

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

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Lab File ID: yl2105t.d DFTPP Injection Date: 12/21/2012

Instrument ID: MSY DFTPP Injection Time: 10:58

Analysis Batch No.: 261214

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	19.5	
68	Less than 2.0 % of mass 69	0.4	(2.0)1
69	Mass 69 relative abundance	20.6	
70	Less than 2.0 % of mass 69	0.3	(1.3)1
127	10.0 - 80.0 % of mass 442	31.6	
197	Less than 2.0 % of mass 198	0.8	(1.0)1
198	Greater than 50.0 % of mass 442	83.9	
199	5.0 - 9.0 % of mass 198	5.3	(6.3)1
275	10.0 - 60.0 % of mass 442	22.2	
365	Greater than 1.0 % of mass 442	3.0	
441	Present but less than mass 443	14.4	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	19.6	

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-261214/2	yl2106q.d	12/21/2012	11:14
	IC 680-261214/3	yl2107q.d	12/21/2012	11:37
	IC 680-261214/4	yl2108q.d	12/21/2012	11:59
	IC 680-261214/5	yl2109q.d	12/21/2012	12:22
	IC 680-261214/6	yl2110q.d	12/21/2012	12:44
	IC 680-261214/7	yl2111q.d	12/21/2012	13:07
	ICIS 680-261214/8	yl2112q.d	12/21/2012	13:30

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

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Lab File ID: yl3101t.d DFTPP Injection Date: 12/31/2012

Instrument ID: MSY DFTPP Injection Time: 12:10

Analysis Batch No.: 261526

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	28.5	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	31.3	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 442	47.8	
197	Less than 2.0 % of mass 198	0.6	(0.6)1
198	Greater than 50.0 % of mass 442	113.8	
199	5.0 - 9.0 % of mass 198	7.6	(6.6)1
275	10.0 - 60.0 % of mass 442	25.3	
365	Greater than 1.0 % of mass 442	3.2	
441	Present but less than mass 443	14.7	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	19.2	

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 680-261526/2	yl3102q.d	12/31/2012	12:44
	MB 680-261323/7-A	yl3107.d	12/31/2012	14:42
	LCS 680-261323/8-A	yl3109.d	12/31/2012	15:27
CV0294A-CS MS	680-86021-25 MS	yl3111.d	12/31/2012	16:12
CV0294A-CS MSD	680-86021-25 MSD	yl3112.d	12/31/2012	16:35
CV0412B-CS	680-86021-21	yl3113.d	12/31/2012	16:57
CV0422A-CS-SP	680-86021-22	yl3114.d	12/31/2012	17:20
CV0421B-CS-SP	680-86021-23	yl3115.d	12/31/2012	17:42
CV0235C-CS	680-86021-24	yl3116.d	12/31/2012	18:05
CV0294A-CS	680-86021-25	yl3119.d	12/31/2012	19:14
CV0627B-GS	680-86021-29	yl3122.d	12/31/2012	20:22

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

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Sample No.: CCVIS 680-261526/2 Date Analyzed: 12/31/2012 12:44

Instrument ID: MSY GC Column: HP-5MS ID: 0.25(mm)

Lab File ID (Standard): yl3102q.d Heated Purge: (Y/N) N

Calibration ID: 15368

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		74589	3.31	44372	4.83	66572	6.08
UPPER LIMIT		149178	3.81	88744	5.33	133144	6.58
LOWER LIMIT		37295	2.81	22186	4.33	33286	5.58
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 680-261323/7-A		86266	3.31	50957	4.83	70791	6.08
LCS 680-261323/8-A		91645	3.31	56274	4.83	89122	6.08
680-86021-25 MS	CV0294A-CS MS	86827	3.31	51966	4.83	80724	6.08
680-86021-25 MSD	CV0294A-CS MSD	77898	3.31	46174	4.83	68120	6.08
680-86021-21	CV0412B-CS	75938	3.31	45256	4.83	68431	6.08
680-86021-22	CV0422A-CS-SP	83981	3.31	50889	4.83	78485	6.08
680-86021-23	CV0421B-CS-SP	74688	3.31	45162	4.83	71808	6.08
680-86021-24	CV0235C-CS	86117	3.31	52404	4.83	84927	6.08
680-86021-25	CV0294A-CS	78194	3.31	45856	4.83	68695	6.08
680-86021-29	CV0627B-GS	75694	3.31	45220	4.83	75365	6.08

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_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Sample No.: CCVIS 680-261526/2 Date Analyzed: 12/31/2012 12:44

Instrument ID: MSY GC Column: HP-5MS ID: 0.25(mm)

Lab File ID (Standard): yl3102q.d Heated Purge: (Y/N) N

Calibration ID: 15368

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		50078	8.39	41407	9.66		
UPPER LIMIT		100156	8.89	82814	10.16		
LOWER LIMIT		25039	7.89	20704	9.16		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 680-261323/7-A		46894	8.39	32200	9.67		
LCS 680-261323/8-A		71306	8.39	60247	9.66		
680-86021-25 MS	CV0294A-CS MS	56689	8.39	46864	9.66		
680-86021-25 MSD	CV0294A-CS MSD	50960	8.39	42092	9.66		
680-86021-21	CV0412B-CS	54144	8.39	42942	9.66		
680-86021-22	CV0422A-CS-SP	64284	8.39	55315	9.66		
680-86021-23	CV0421B-CS-SP	53065	8.39	43713	9.66		
680-86021-24	CV0235C-CS	72370	8.39	60959	9.66		
680-86021-25	CV0294A-CS	54361	8.39	46180	9.66		
680-86021-29	CV0627B-GS	59281	8.39	47036	9.66		

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_PAH

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-86021-2

SDG No.: 68086021-2

Client Sample ID: CV0412B-CS | Lab Sample ID: 680-86021-21

Matrix: Solid | Lab File ID: yl3113.d

Analysis Method: 8270C_LL_PAH | Date Collected: 12/18/2012 09:50

Extract. Method: 3546 | Date Extracted: 12/28/2012 19:41

Sample wt/vol: 30.11(g) | Date Analyzed: 12/31/2012 16:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 21.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 261526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	47	J	85	39
91-57-6	2-Methylnaphthalene	69	J	85	42
83-32-9	Acenaphthene	85	U	85	42
208-96-8	Acenaphthylene	85	U	85	42
120-12-7	Anthracene	85	U	85	42
56-55-3	Benzo[a]anthracene	150		85	42
50-32-8	Benzo[a]pyrene	180		85	15
205-99-2	Benzo[b]fluoranthene	250		85	42
191-24-2	Benzo[g,h,i]perylene	140		85	42
207-08-9	Benzo[k]fluoranthene	130		85	25
218-01-9	Chrysene	230		85	42
53-70-3	Dibenz(a,h)anthracene	66	J	85	42
206-44-0	Fluoranthene	280		85	42
86-73-7	Fluorene	85	U	85	42
193-39-5	Indeno[1,2,3-cd]pyrene	110		85	42
91-20-3	Naphthalene	52	J	85	42
129-00-0	Pyrene	250		85	42
85-01-8	Phenanthrene	200		85	30

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3113.d
Lab Smp Id: 680-86012-A-21-C DL
Inj Date : 31-DEC-2012 16:57
Operator : VHB Inst ID: MSY5975.i
Smp Info : 680-86012-A-21-C DL=10
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 11
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

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

Name	Value	Description
DF	10.00000	Dilution Factor
Vi	1.00000	Injection Volume
Vt	1.00000	Final Volume
Ws	30.00000	Weight Extracted
M	0.00000	% Moisture
A	1000.00000	uL to mL conversion
B	1000.00000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.00000	ug to mg conversion(value = 1 if no conv
GPC	1.00000	GPC FACTOR

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.311	3.312	(1.000)	75938	2.00000	
2 Naphthalene	128	3.333	3.333	(1.006)	5478	0.12240	40.80(a)
3 2-Methylnaphthalene	142	3.937	3.932	(1.189)	4596	0.16455	54.85(a)
4 1-Methylnaphthalene	142	4.017	4.018	(1.213)	3269	0.11123	37.07(a)
* 5 Acenaphthene-d10	164	4.830	4.831	(1.000)	45256	2.00000	
* 9 Phenanthrene-d10	188	6.082	6.082	(1.000)	68431	2.00000	
10 Phenanthrene	178	6.103	6.104	(1.004)	19894	0.47193	157.31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
12 Fluoranthene	202	7.109	7.109	(1.169)	33108	0.67372	224.57
14 Pyrene	202	7.301	7.302	(0.871)	29165	0.59348	197.82
16 Benzo(a)Anthracene	228	8.382	8.382	(0.999)	13876	0.36123	120.40
* 13 Chrysene-d12	240	8.387	8.387	(1.000)	54144	2.00000	
17 Chrysene	228	8.414	8.414	(1.003)	18392	0.53761	179.20
19 Benzo(b)fluoranthene	252	9.329	9.323	(0.966)	18835	0.59952	199.84(M)
20 Benzo(k)fluoranthene	252	9.345	9.350	(0.967)	9963	0.31093	103.64(M)
21 Benzo(a)pyrene	252	9.607	9.607	(0.994)	11087	0.42787	142.62
* 18 Perylene-d12	264	9.660	9.660	(1.000)	42942	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.767	10.768	(1.284)	7560	0.25703	85.67
23 Dibenzo(a,h)anthracene	278	10.783	10.794	(1.116)	3402	0.15623	52.07(a)
24 Benzo(g,h,i)perylene	276	11.094	11.094	(1.148)	7325	0.32518	108.39

QC Flag Legend

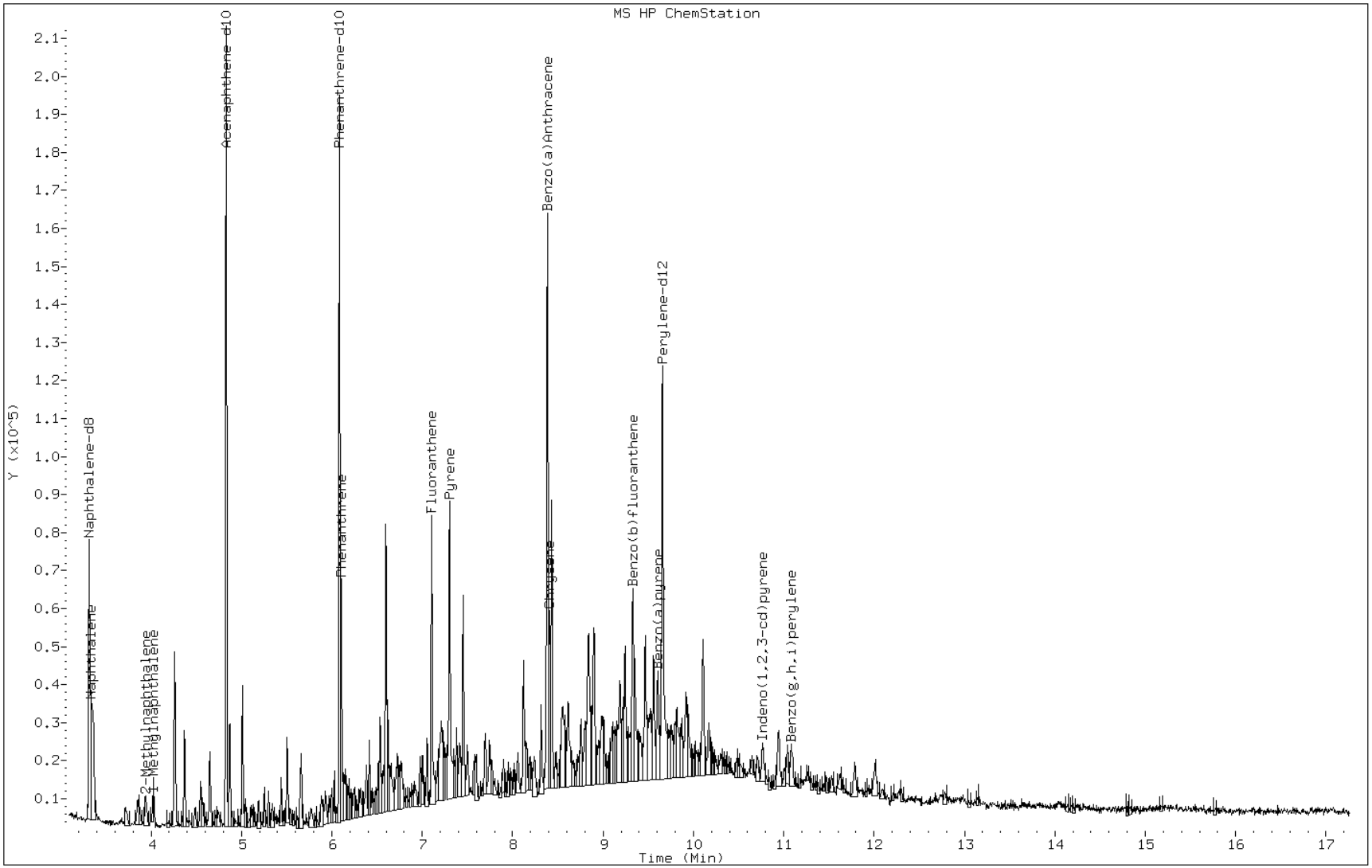
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB



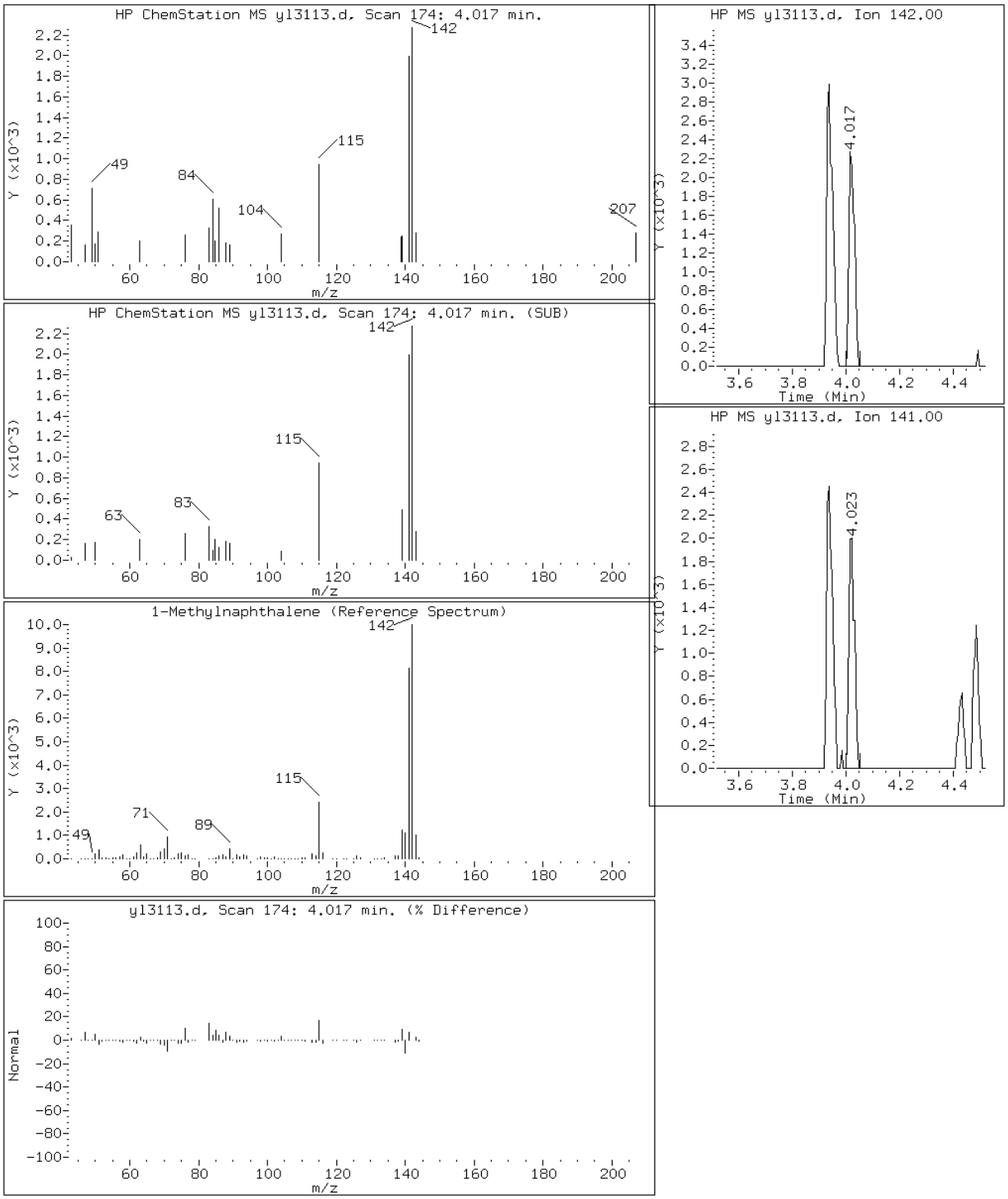
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

4 1-Methylnaphthalene



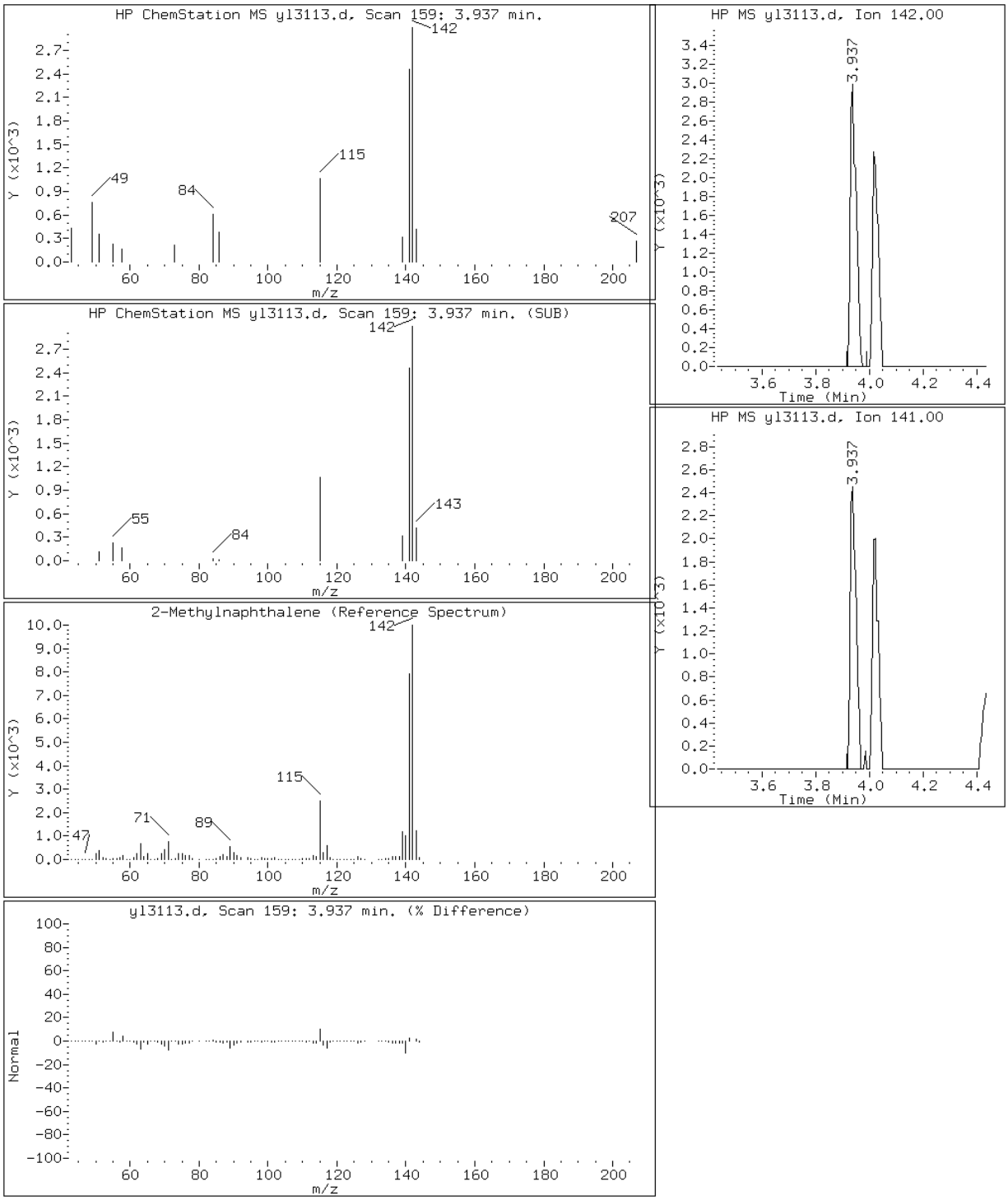
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

3 2-Methylnaphthalene



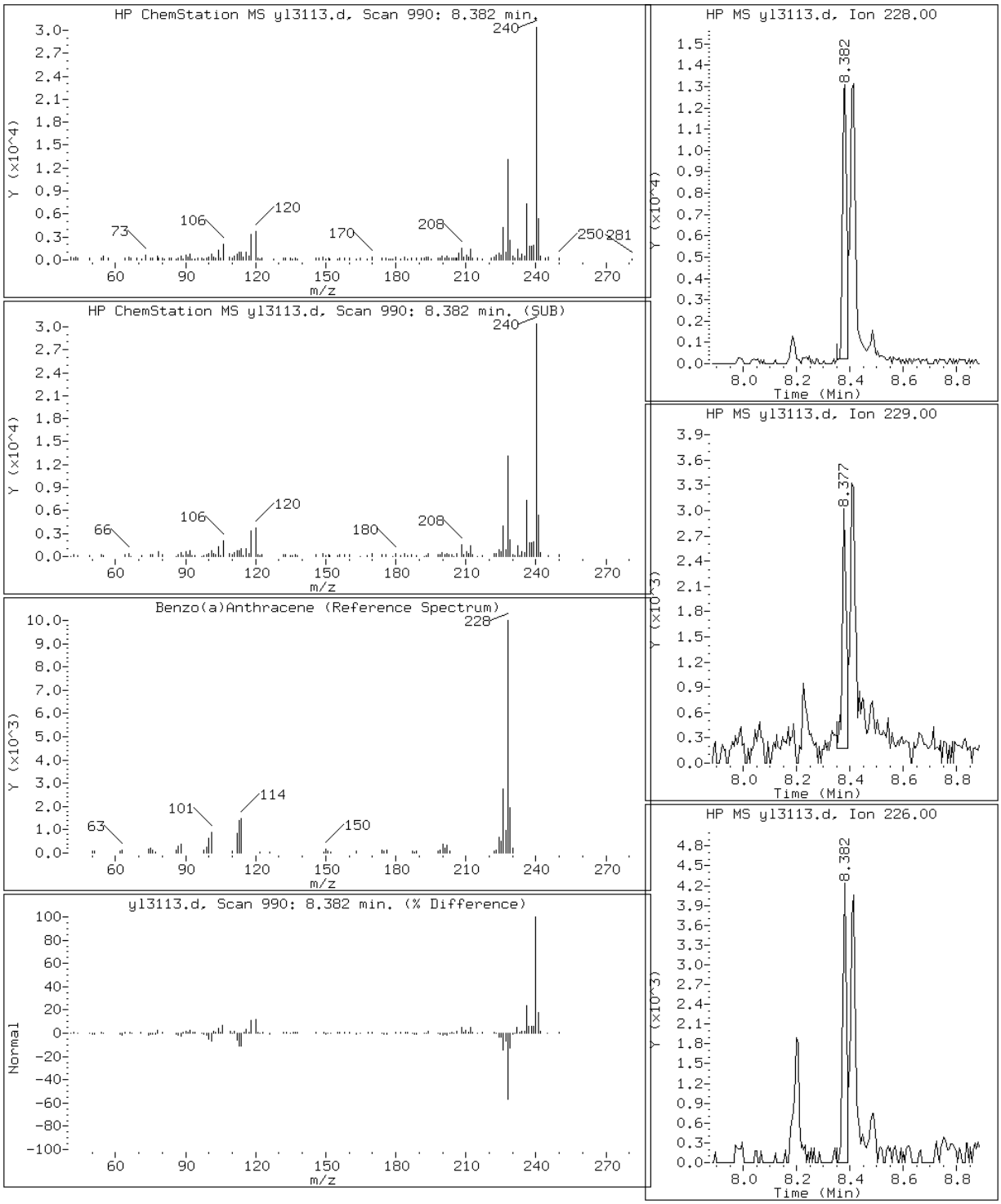
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

16 Benzo(a)Anthracene



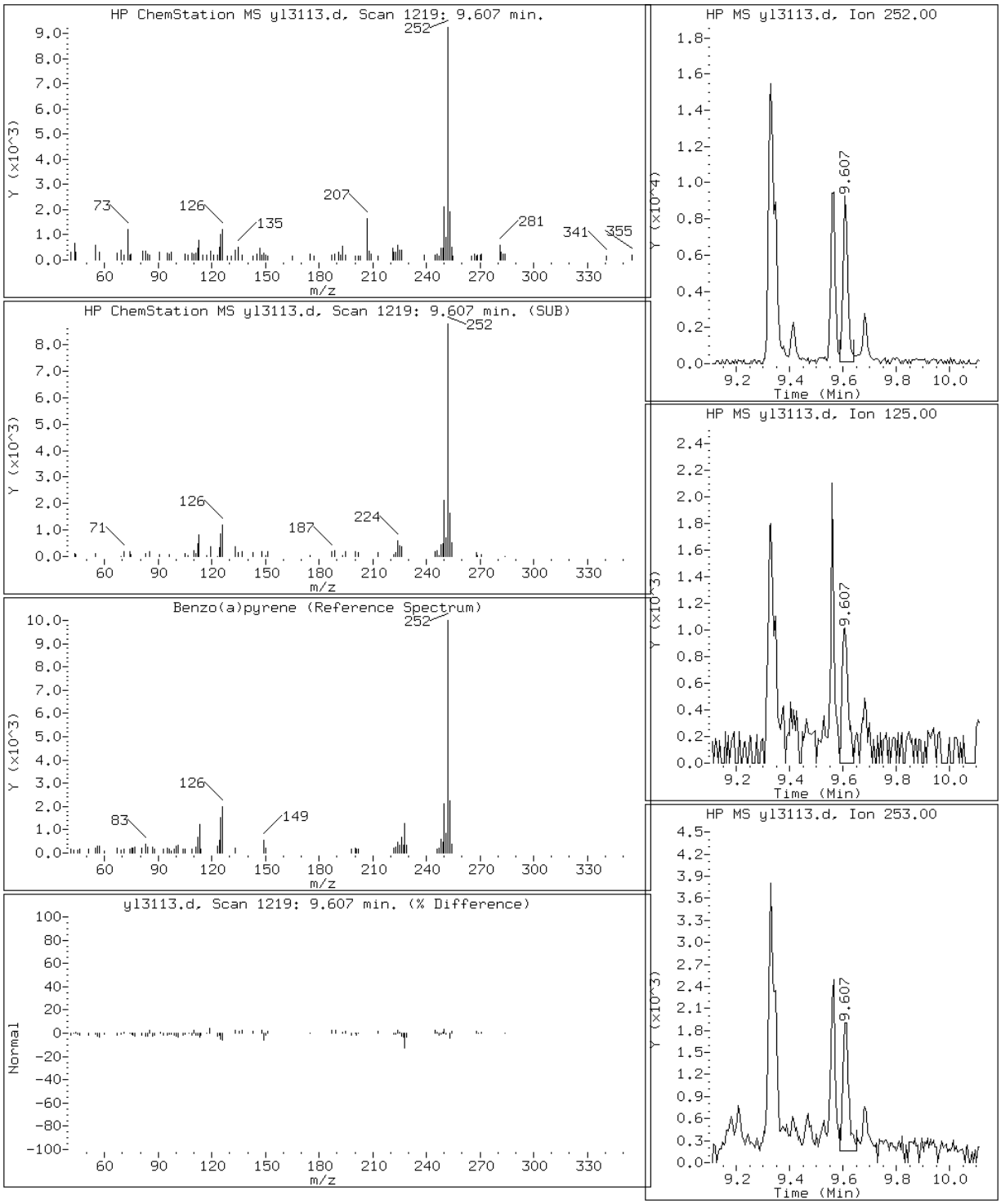
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

21 Benzo(a)pyrene



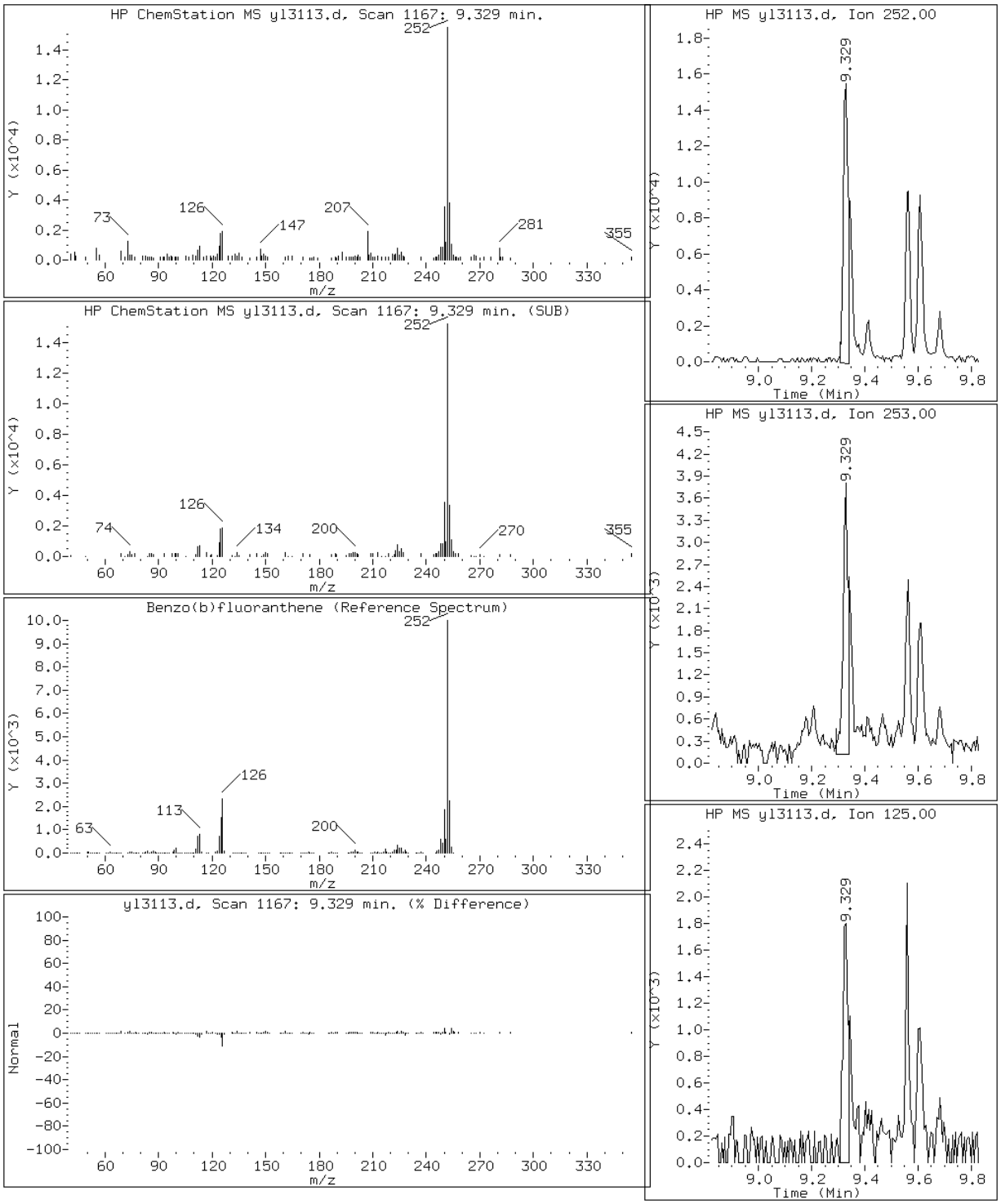
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

19 Benzo(b)fluoranthene



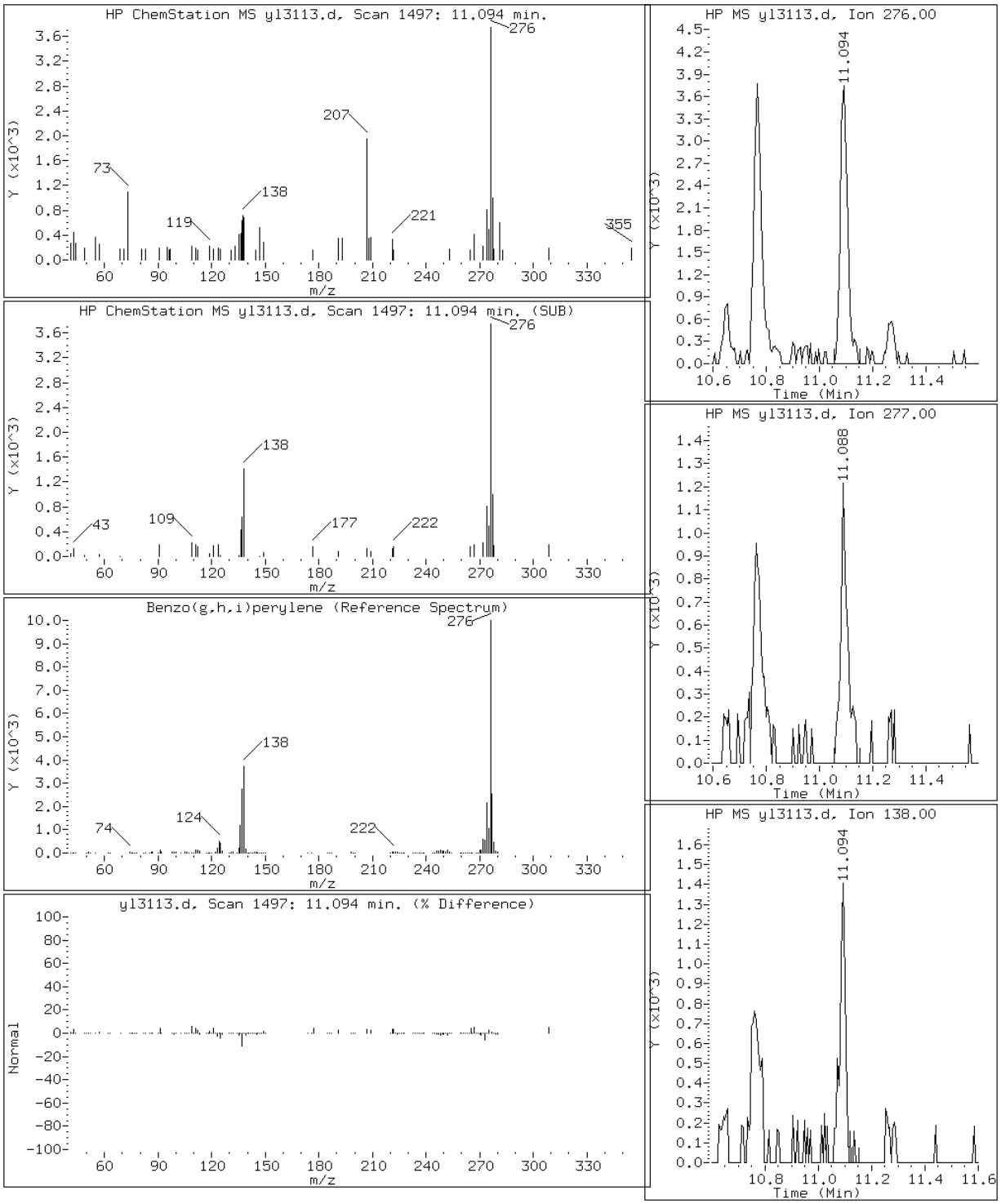
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

24 Benzo(g,h,i)perylene



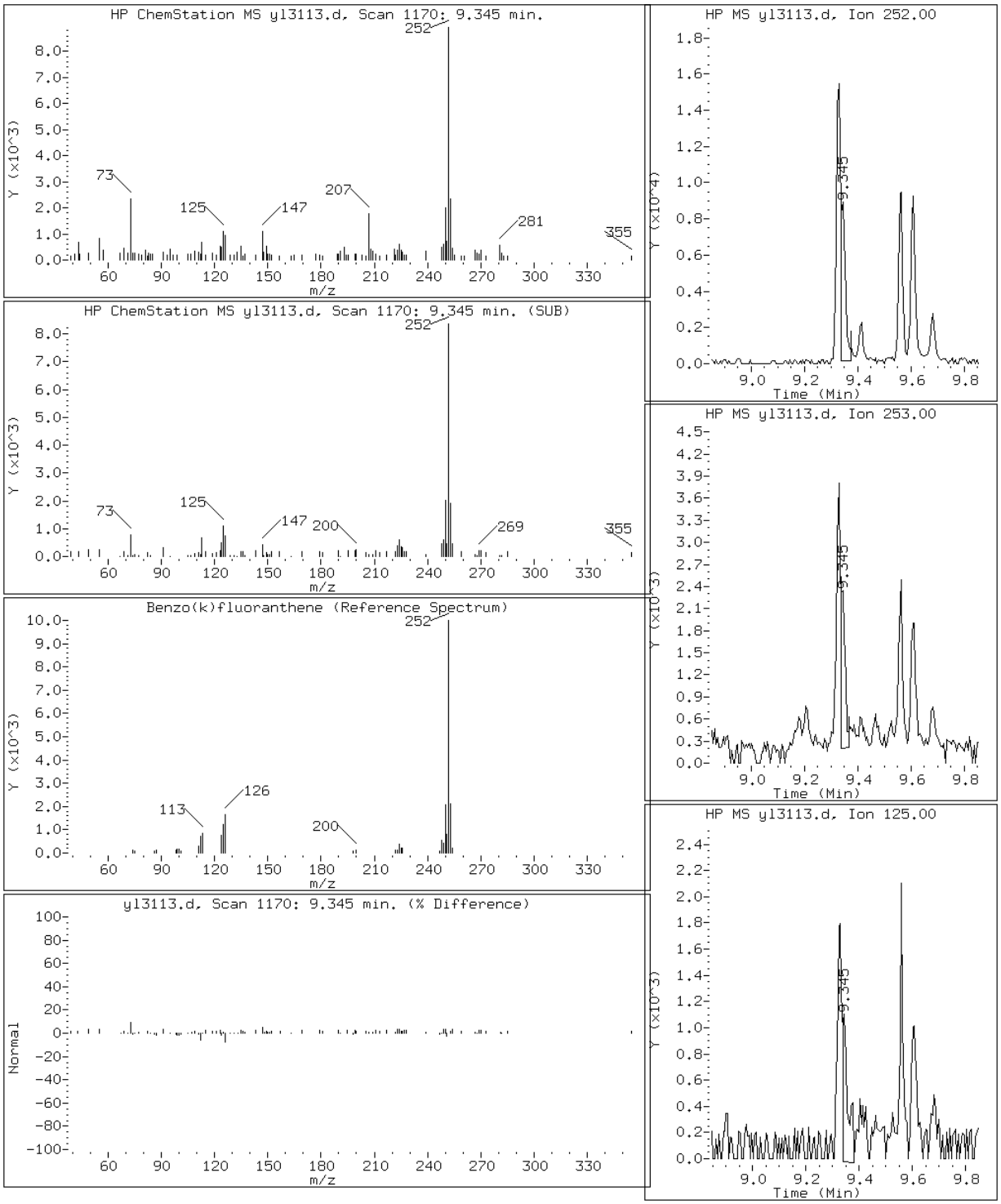
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

20 Benzo(k)fluoranthene



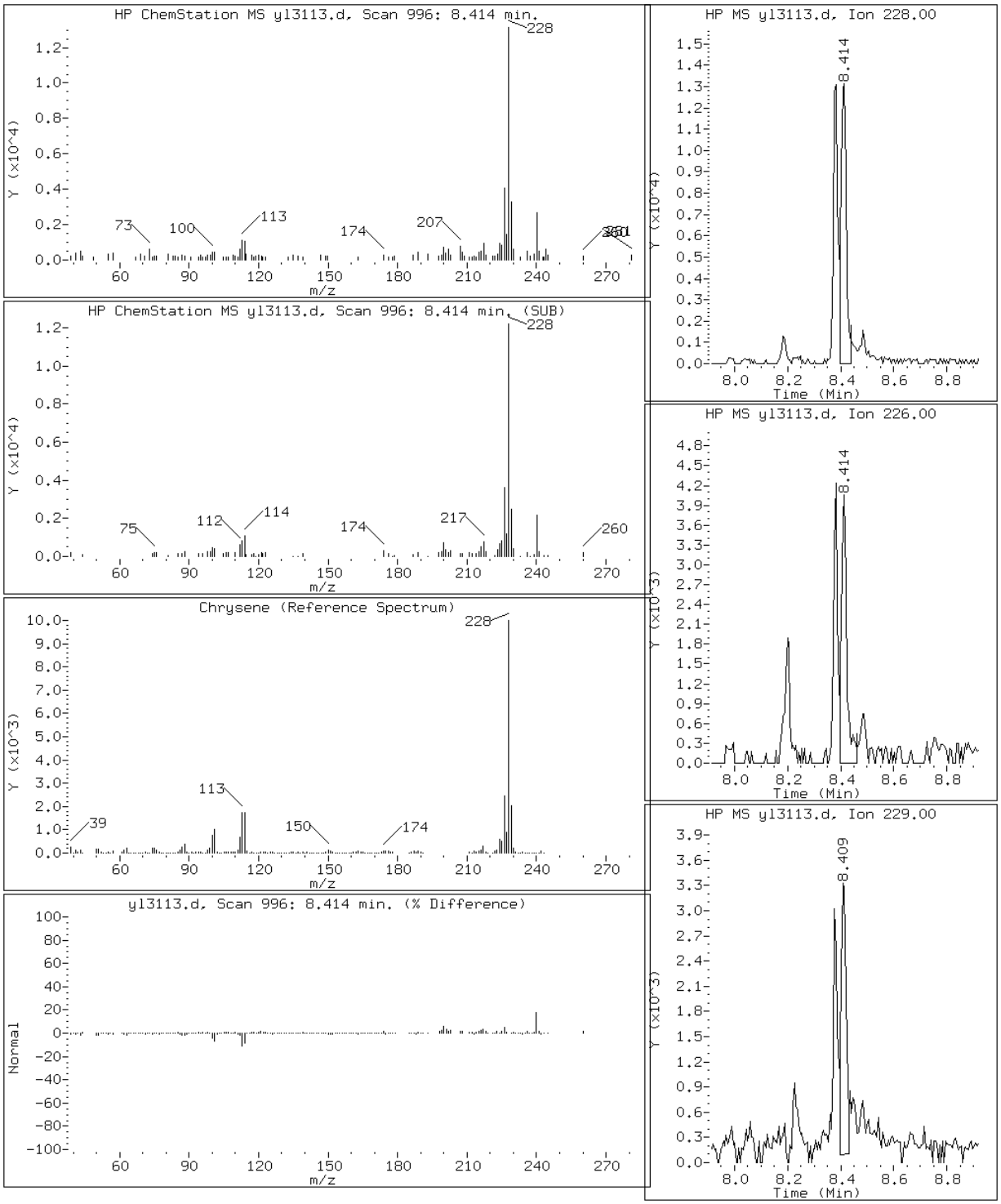
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

17 Chrysene



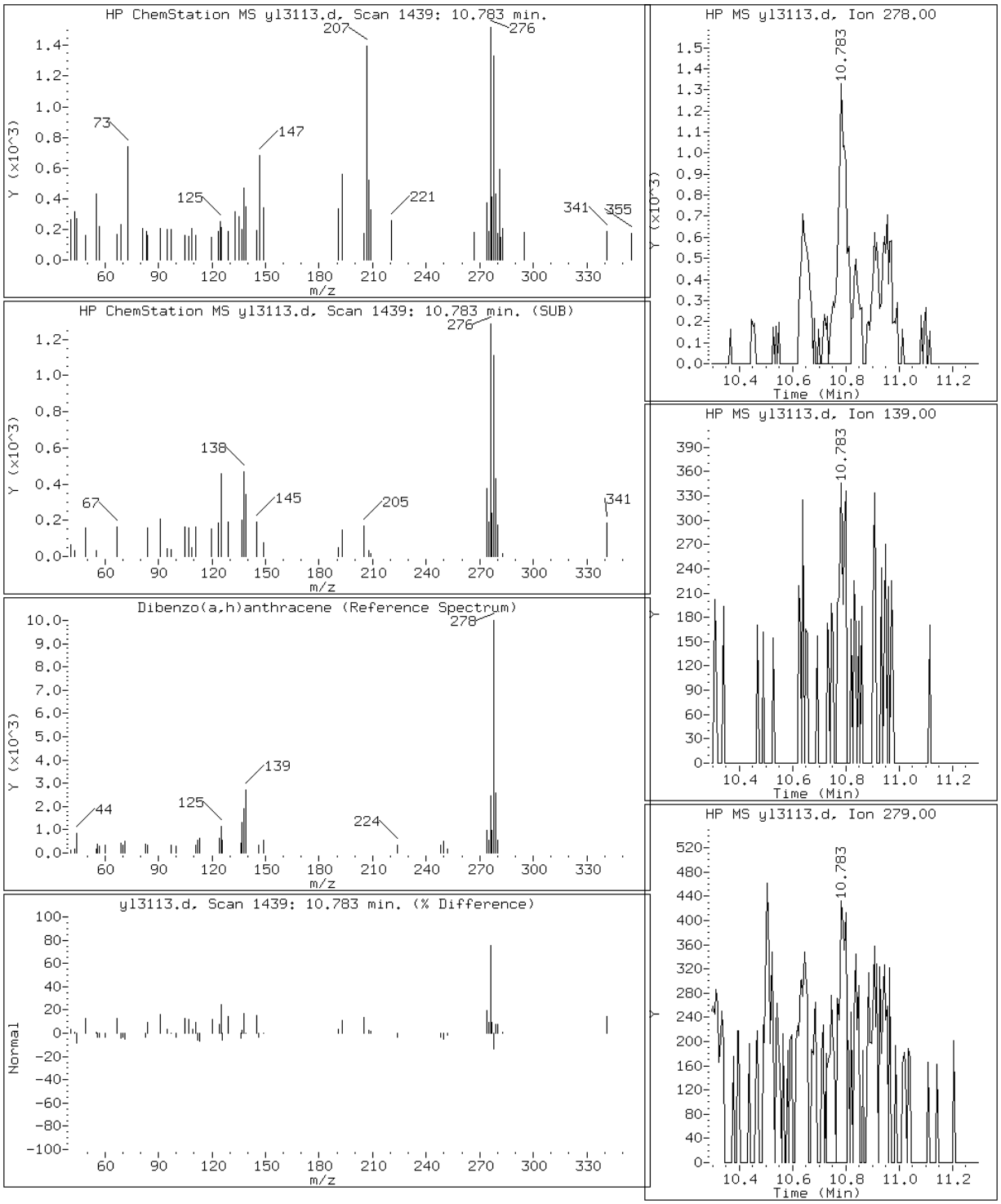
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

23 Dibenzo(a,h)anthracene



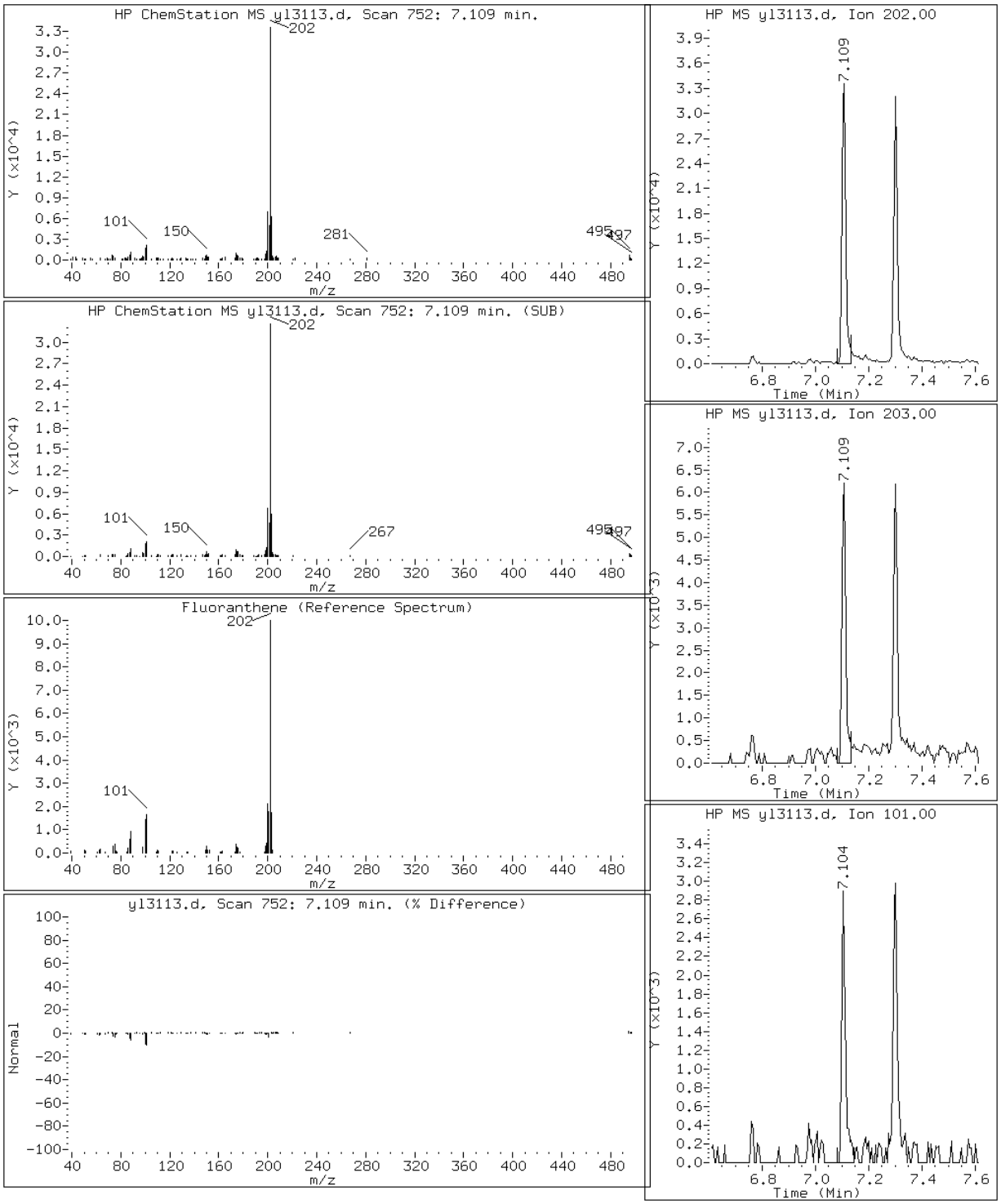
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

12 Fluoranthene



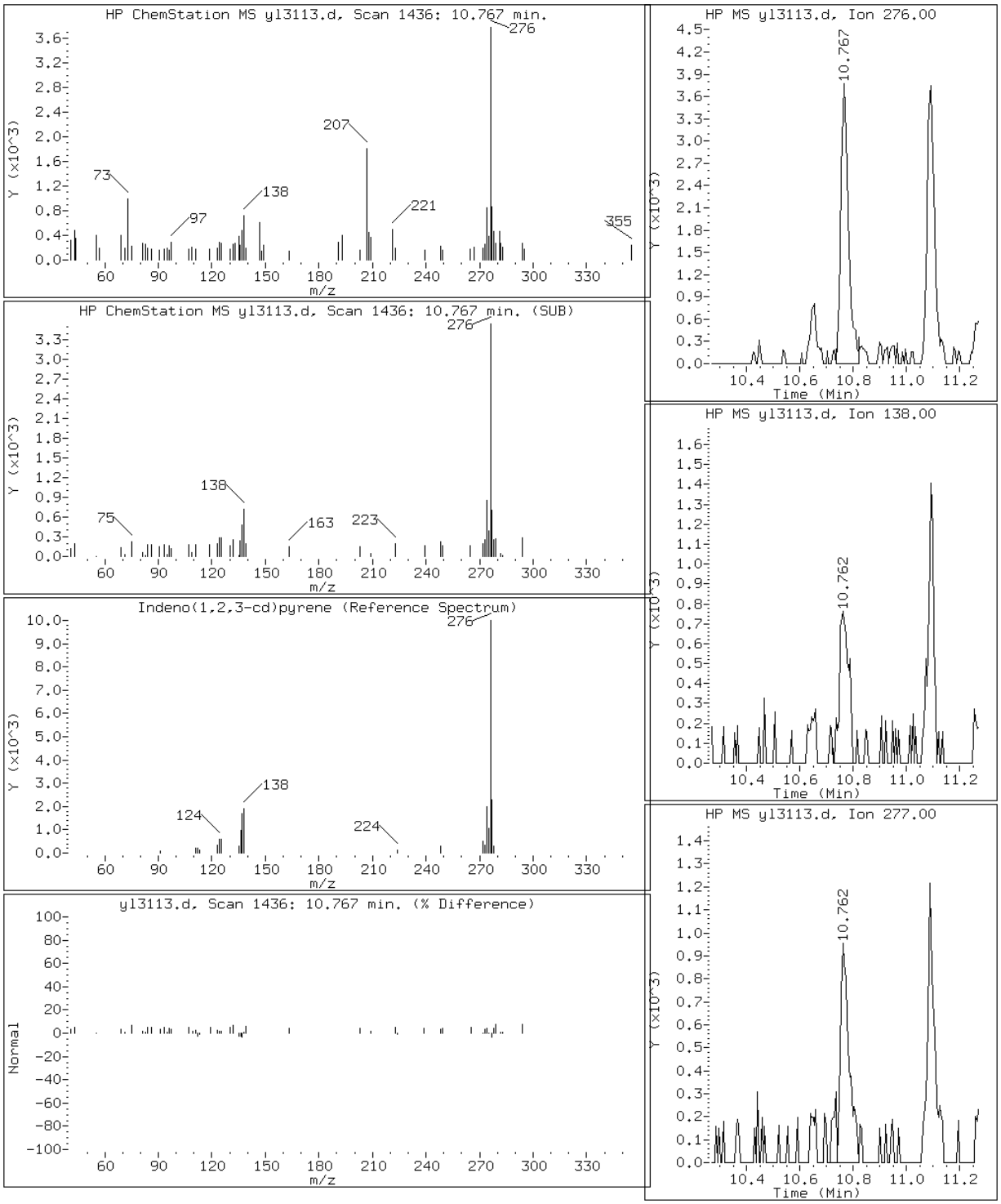
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

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



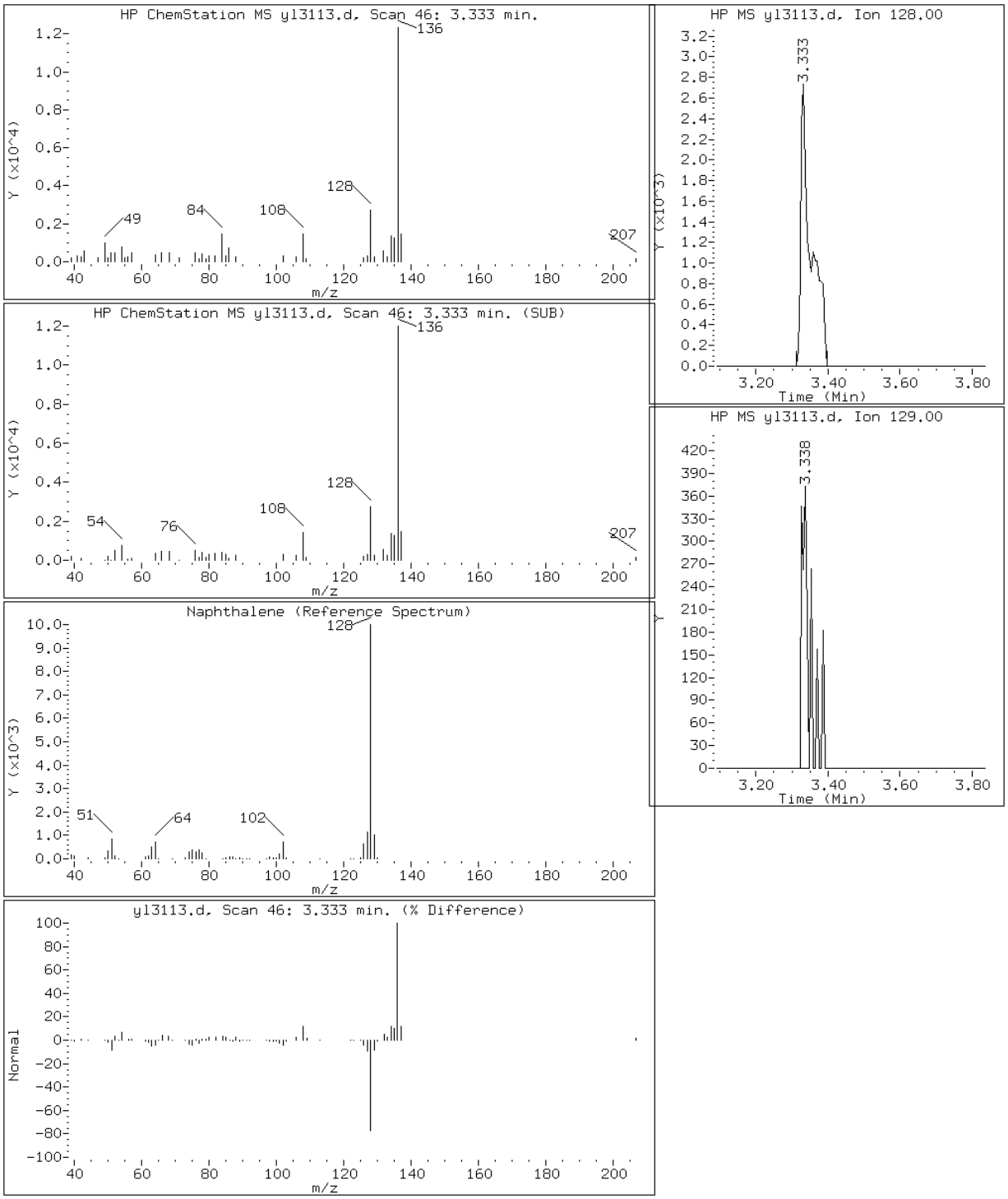
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

2 Naphthalene



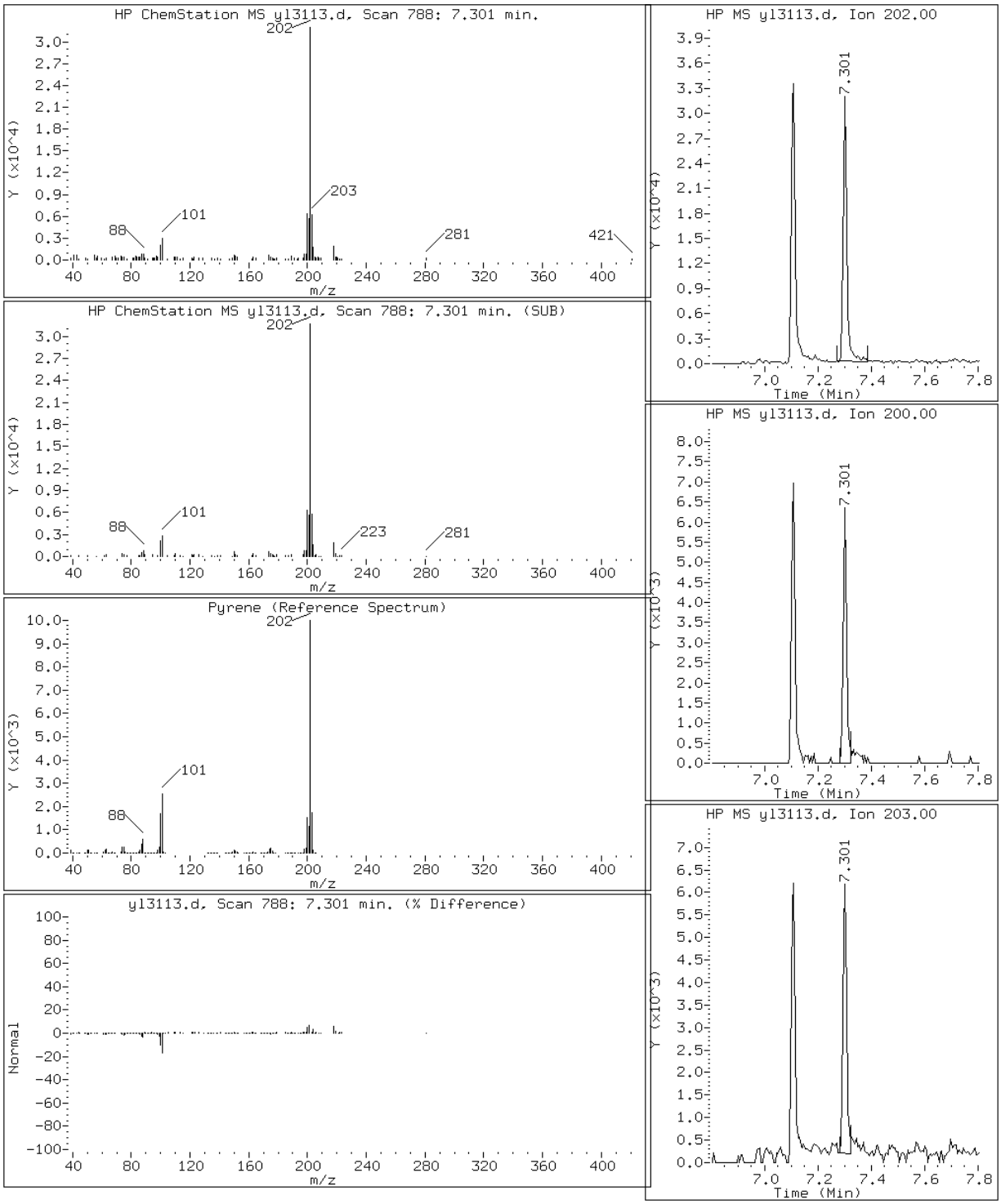
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

14 Pyrene



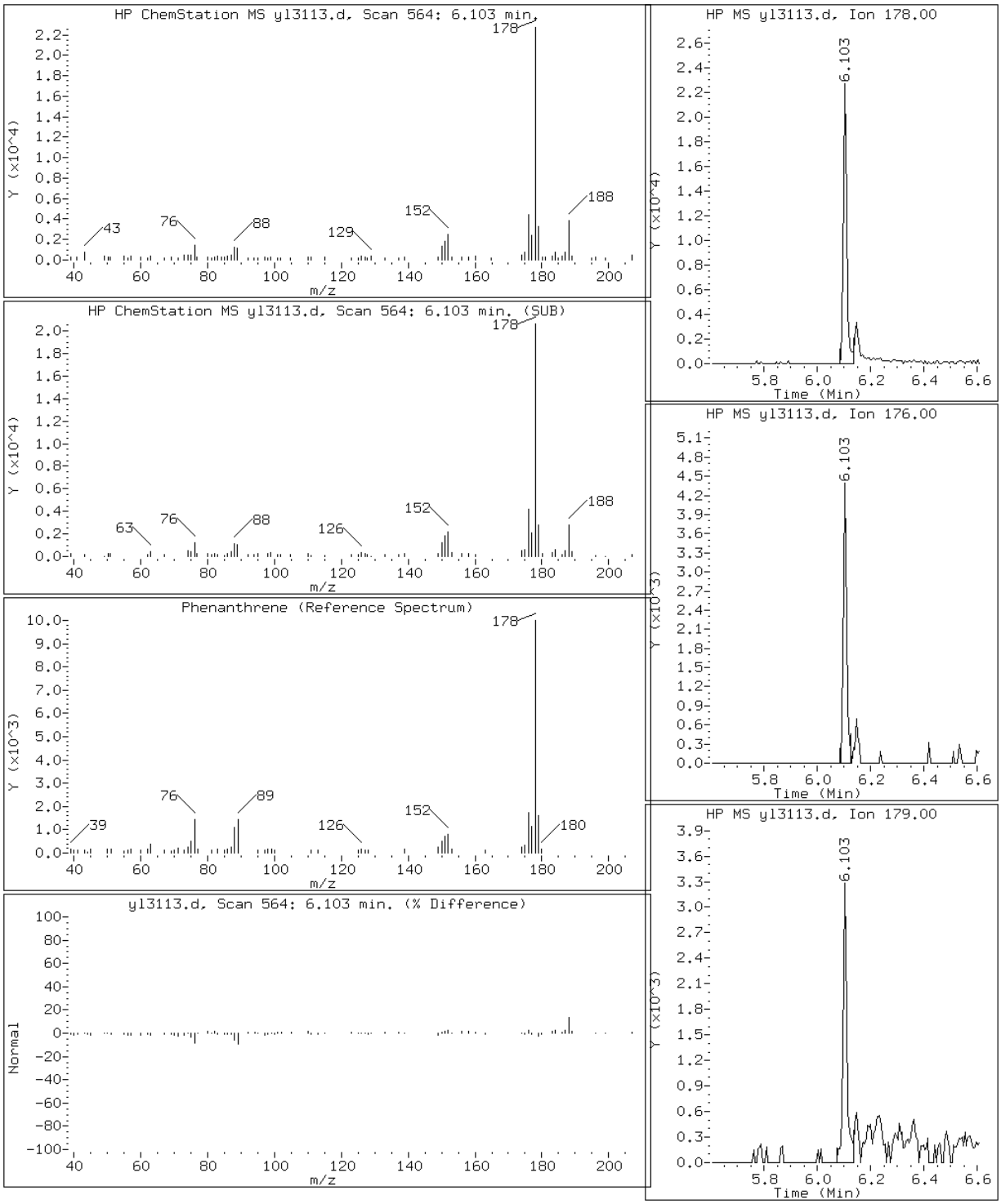
Data File: yl3113.d

Date: 31-DEC-2012 16:57

Client ID: Instrument: MSY5975.i

Sample Info: 680-86012-A-21-C DL=10 Operator: VHB

10 Phenanthrene



Manual Integration Report

Data File: yl3113.d
Inj. Date and Time: 31-DEC-2012 16:57
Instrument ID: MSY5975.i
Client ID:
Compound: 19 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 01/01/2013

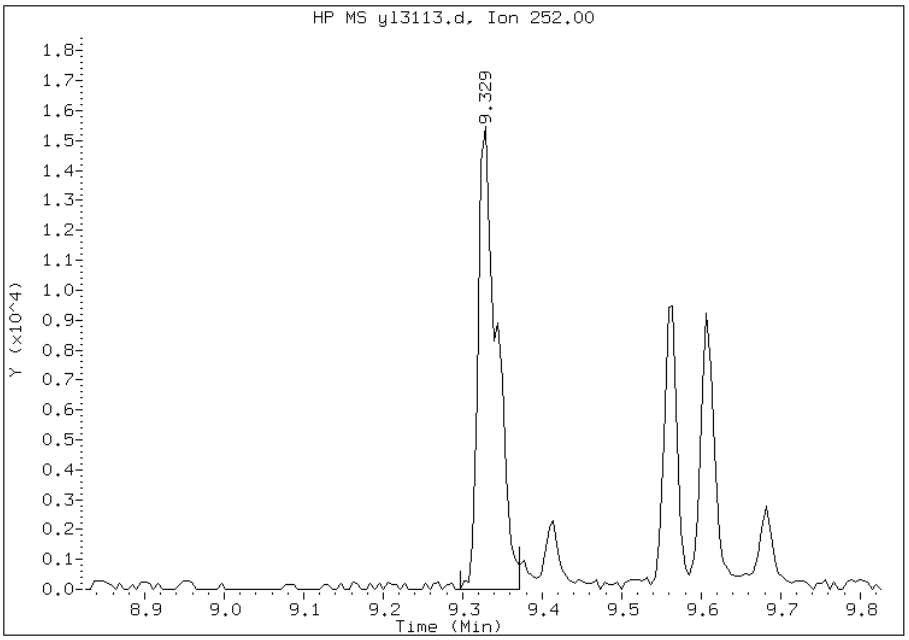
Processing Integration Results

RT: 9.33

Response: 26177

Amount: 1

Conc: 278



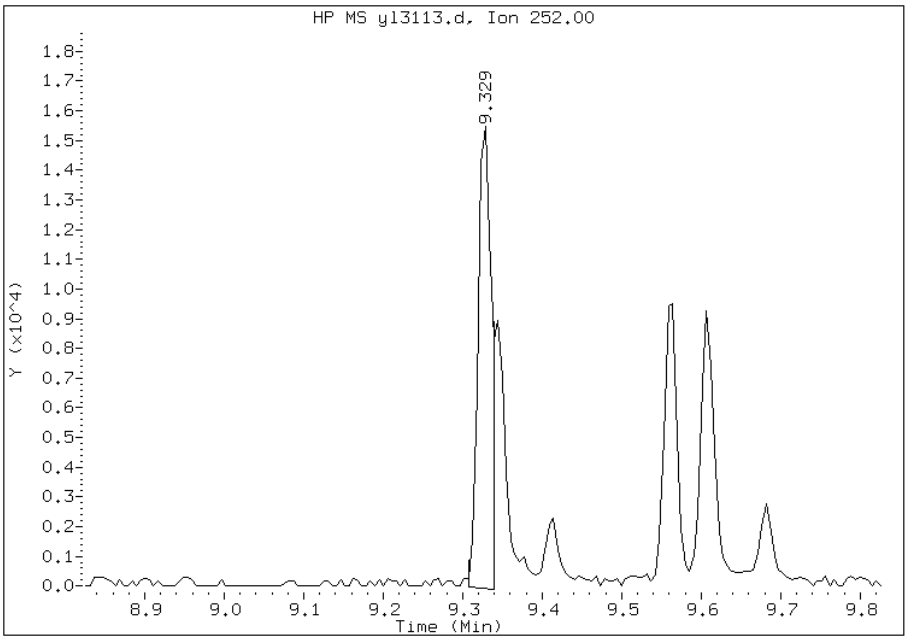
Manual Integration Results

RT: 9.33

Response: 18835

Amount: 1

Conc: 200



Manually Integrated By: chemist
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: yl3113.d
Inj. Date and Time: 31-DEC-2012 16:57
Instrument ID: MSY5975.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/01/2013

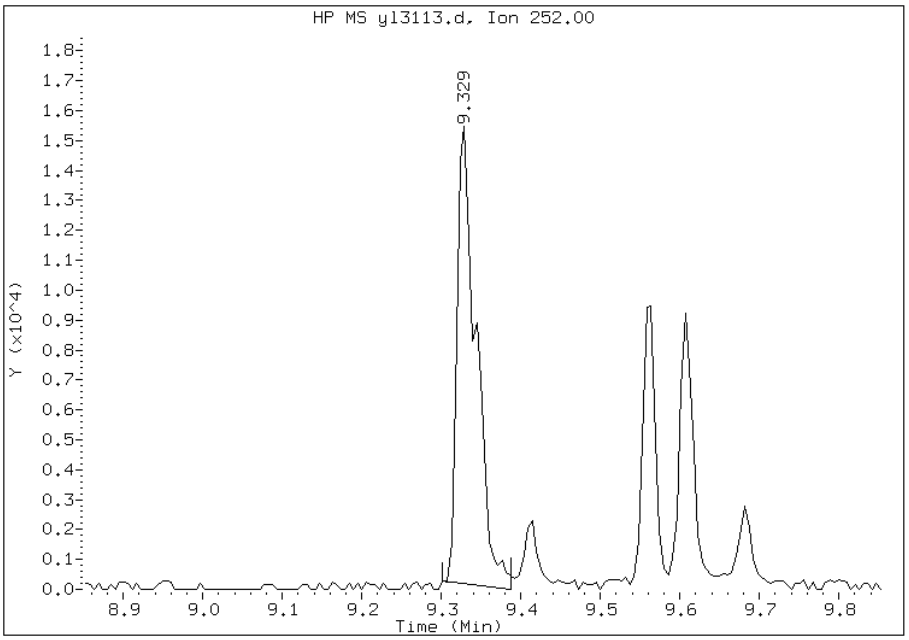
Processing Integration Results

RT: 9.33

Response: 26085

Amount: 1

Conc: 271



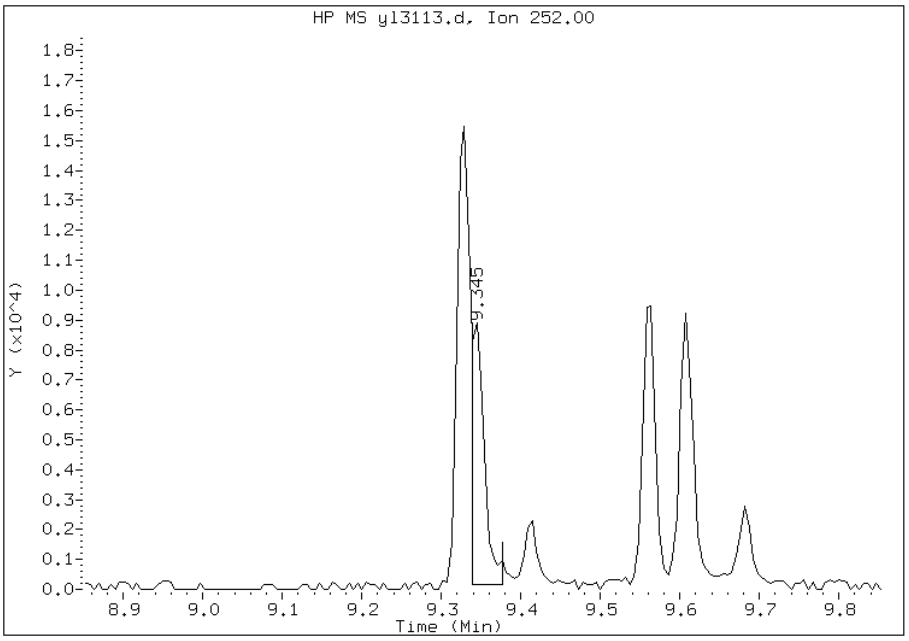
Manual Integration Results

RT: 9.34

Response: 9963

Amount: 0

Conc: 104



Manually Integrated By: chemist
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-86021-2

SDG No.: 68086021-2

Client Sample ID: CV0422A-CS-SP | Lab Sample ID: 680-86021-22

Matrix: Solid | Lab File ID: yl3114.d

Analysis Method: 8270C_LL_PAH | Date Collected: 12/18/2012 10:37

Extract. Method: 3546 | Date Extracted: 12/28/2012 19:41

Sample wt/vol: 30.35(g) | Date Analyzed: 12/31/2012 17:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 19.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 261526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	82	U	82	38
91-57-6	2-Methylnaphthalene	82	U	82	41
83-32-9	Acenaphthene	82	U	82	41
208-96-8	Acenaphthylene	82	U	82	41
120-12-7	Anthracene	82	U	82	41
56-55-3	Benzo[a]anthracene	69	J	82	41
50-32-8	Benzo[a]pyrene	74	J	82	15
205-99-2	Benzo[b]fluoranthene	110		82	41
191-24-2	Benzo[g,h,i]perylene	52	J	82	41
207-08-9	Benzo[k]fluoranthene	58	J	82	25
218-01-9	Chrysene	91		82	41
53-70-3	Dibenz(a,h)anthracene	82	U	82	41
206-44-0	Fluoranthene	110		82	41
86-73-7	Fluorene	82	U	82	41
193-39-5	Indeno[1,2,3-cd]pyrene	46	J	82	41
91-20-3	Naphthalene	82	U	82	41
129-00-0	Pyrene	90		82	41
85-01-8	Phenanthrene	64	J	82	29

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3114.d
Lab Smp Id: 680-86021A-22-C DL
Inj Date : 31-DEC-2012 17:20
Operator : VHB Inst ID: MSY5975.i
Smp Info : 680-86021A-22-C DL=10
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 12
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

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

Name	Value	Description
DF	10.00000	Dilution Factor
Vi	1.00000	Injection Volume
Vt	1.00000	Final Volume
Ws	30.00000	Weight Extracted
M	0.00000	% Moisture
A	1000.00000	uL to mL conversion
B	1000.00000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.00000	ug to mg conversion(value = 1 if no conv
GPC	1.00000	GPC FACTOR

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.312	3.312	(1.000)	83981	2.00000	
* 5 Acenaphthene-d10	164	4.831	4.831	(1.000)	50889	2.00000	
* 9 Phenanthrene-d10	188	6.082	6.082	(1.000)	78485	2.00000	
10 Phenanthrene	178	6.104	6.104	(1.004)	7578	0.15674	52.24(a)
12 Fluoranthene	202	7.109	7.109	(1.169)	15421	0.27361	91.20
14 Pyrene	202	7.302	7.302	(0.871)	12876	0.22069	73.56
16 Benzo(a)Anthracene	228	8.382	8.382	(0.999)	7724	0.16936	56.45(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 13 Chrysene-d12	240	8.387	8.387	(1.000)	64284	2.00000	
17 Chrysene	228	8.414	8.414	(1.003)	9062	0.22311	74.36
19 Benzo(b)fluoranthene	252	9.329	9.323	(0.966)	10431	0.25775	85.91(M)
20 Benzo(k)fluoranthene	252	9.345	9.350	(0.967)	5804	0.14063	46.87(aM)
21 Benzo(a)pyrene	252	9.607	9.607	(0.994)	6017	0.18027	60.08(a)
* 18 Perylene-d12	264	9.660	9.660	(1.000)	55315	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.284)	3923	0.11234	37.44(a)
24 Benzo(g,h,i)perylene	276	11.088	11.094	(1.148)	3655	0.12596	41.98(a)

QC Flag Legend

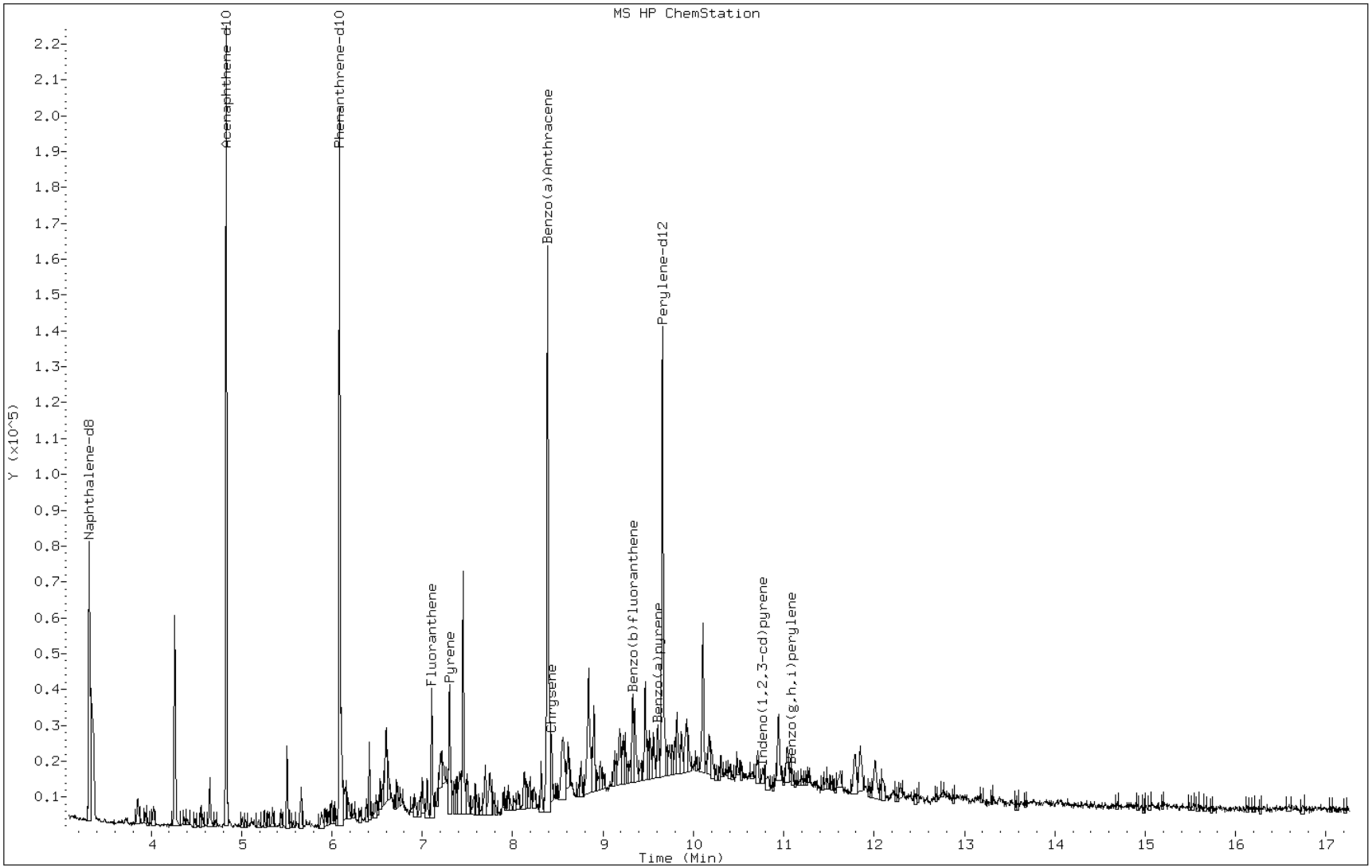
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB



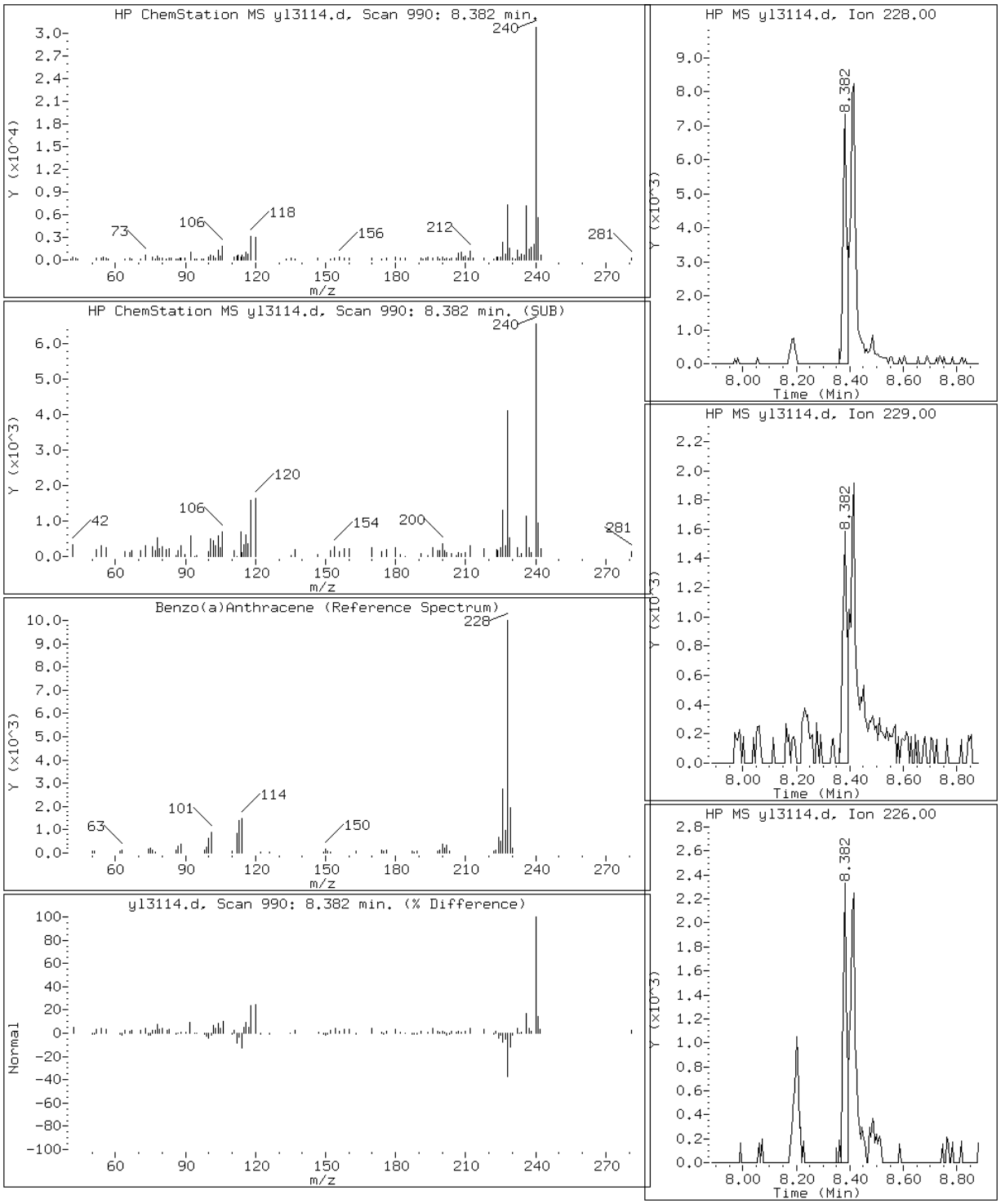
Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB

16 Benzo(a)Anthracene



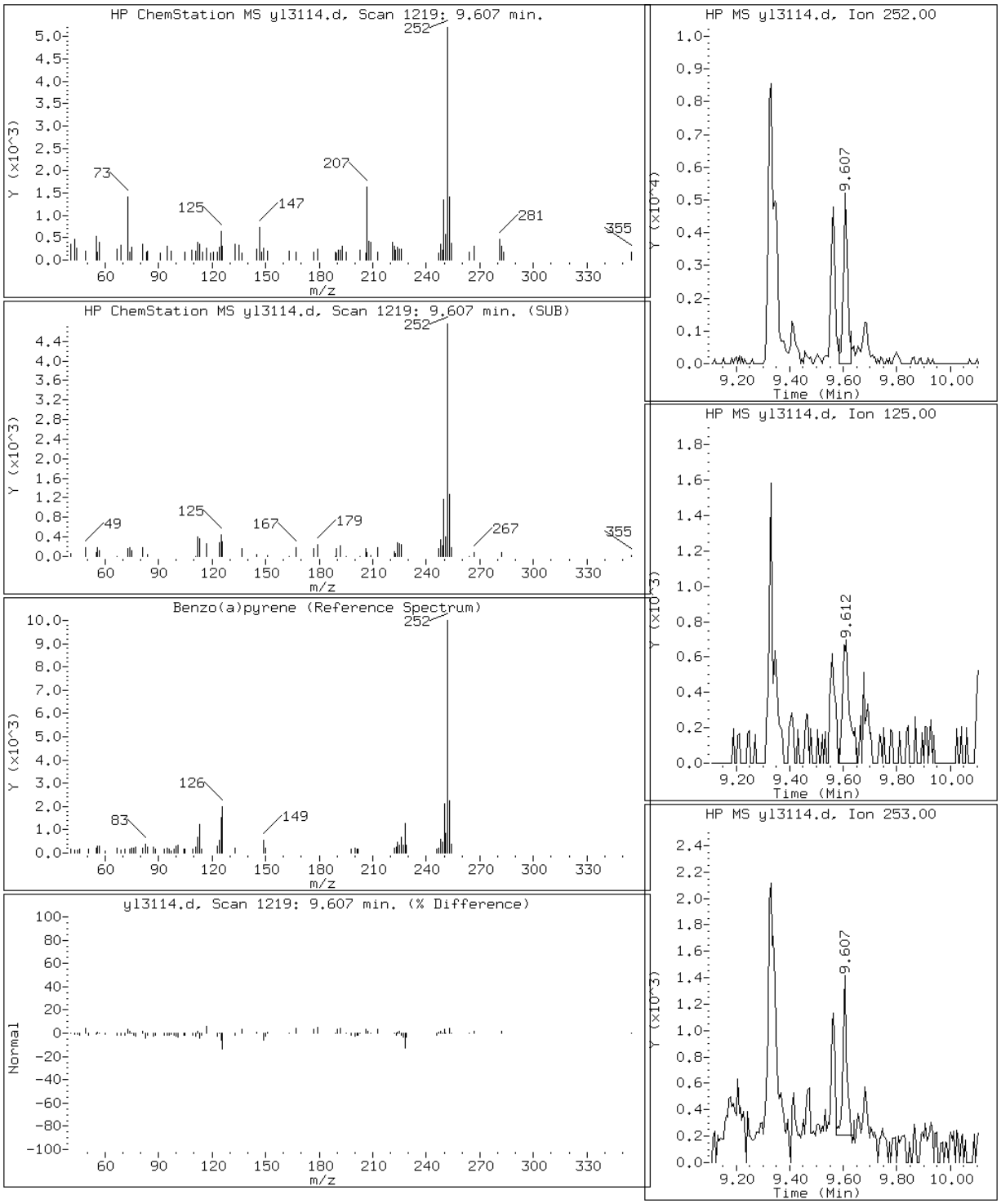
Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB

21 Benzo(a)pyrene



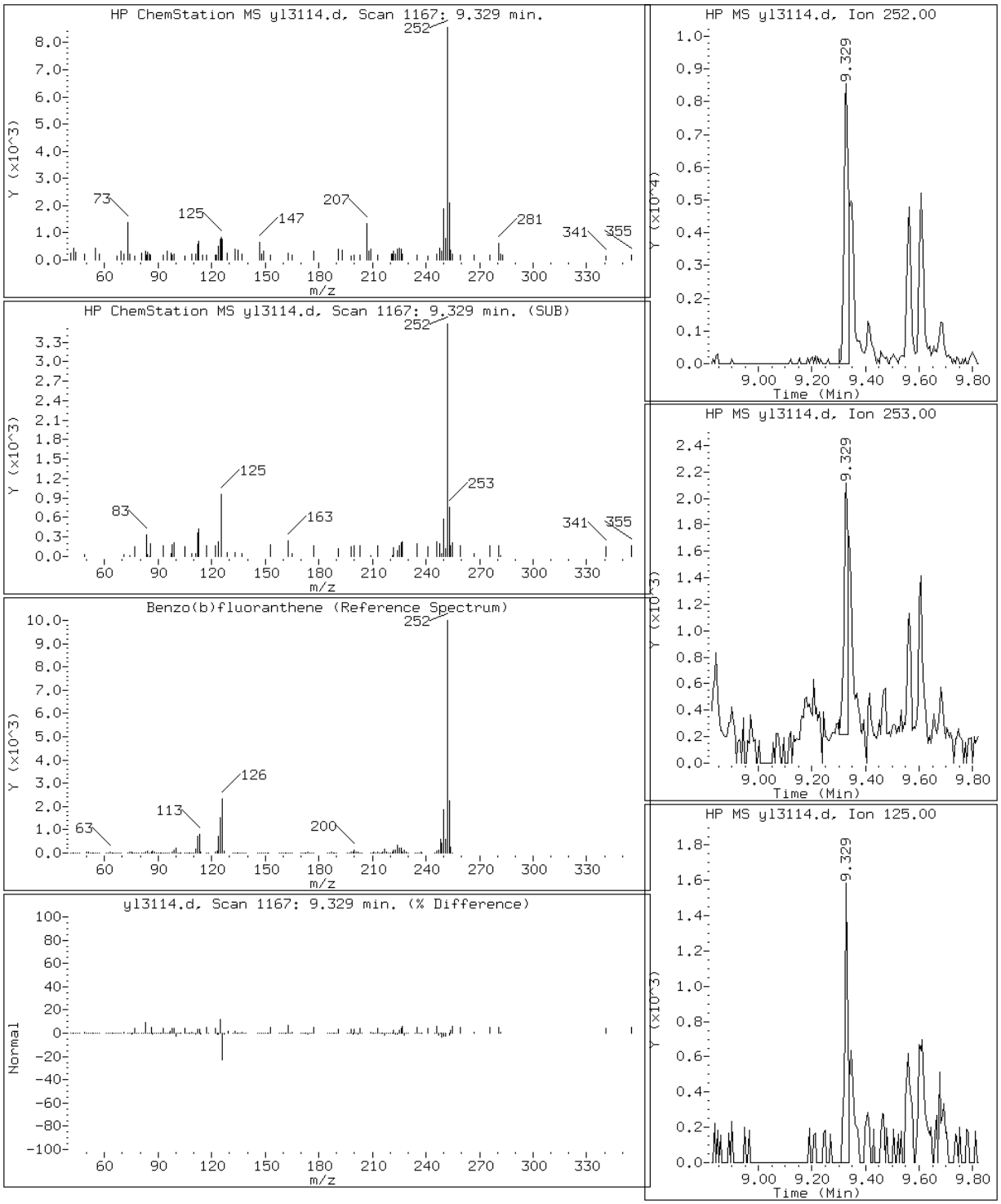
Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB

19 Benzo(b)fluoranthene



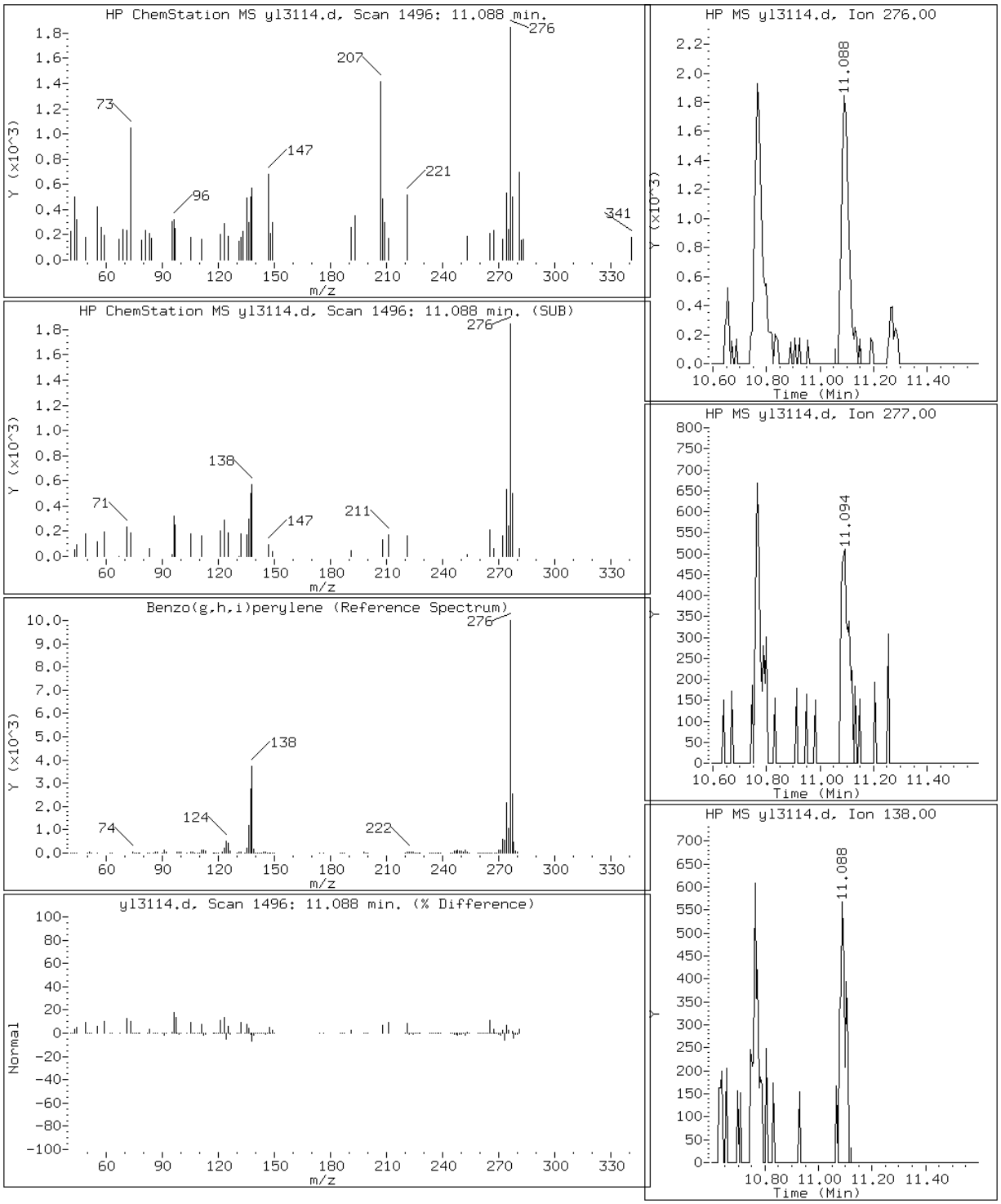
Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB

24 Benzo(g,h,i)perylene



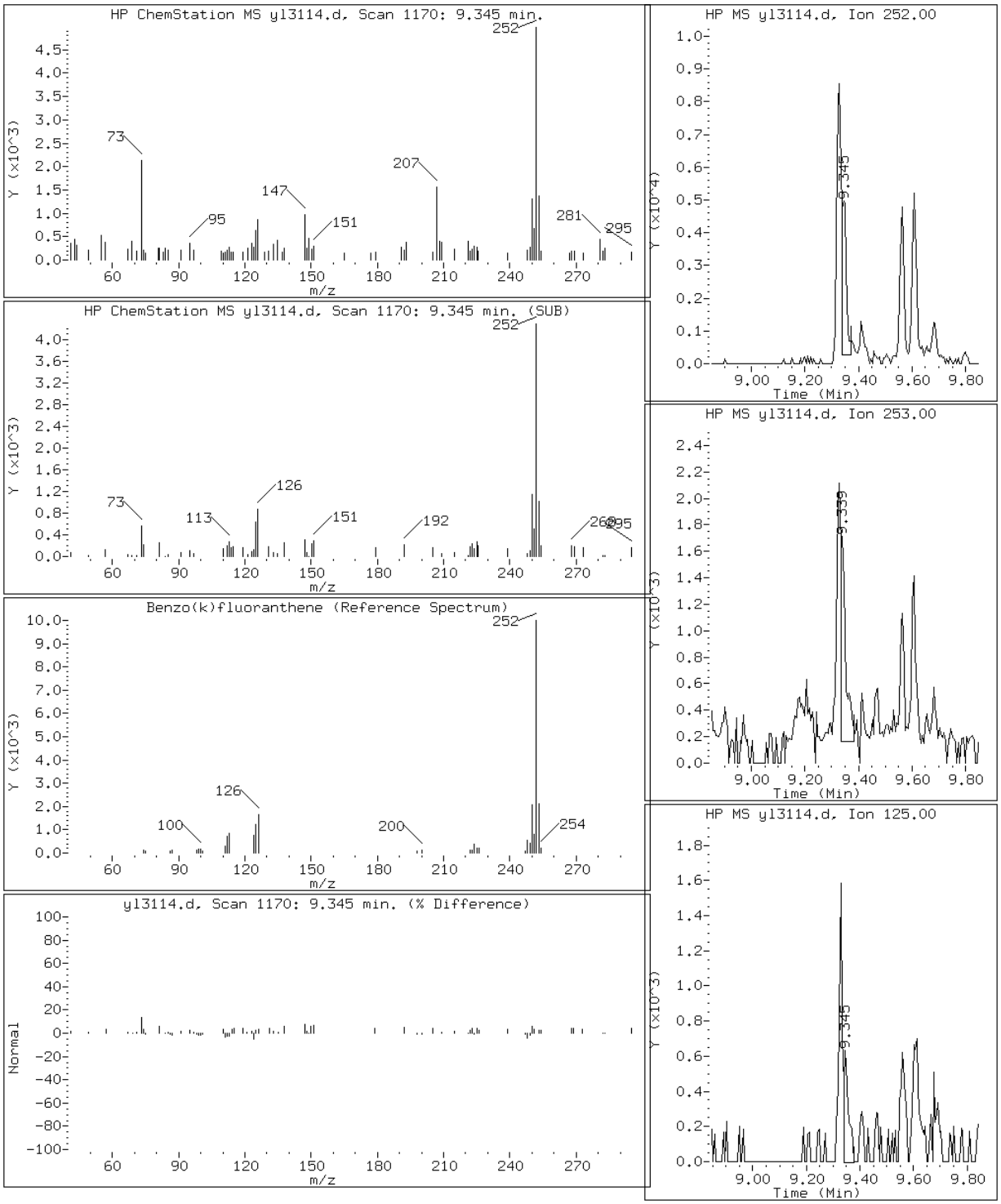
Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB

20 Benzo(k)fluoranthene



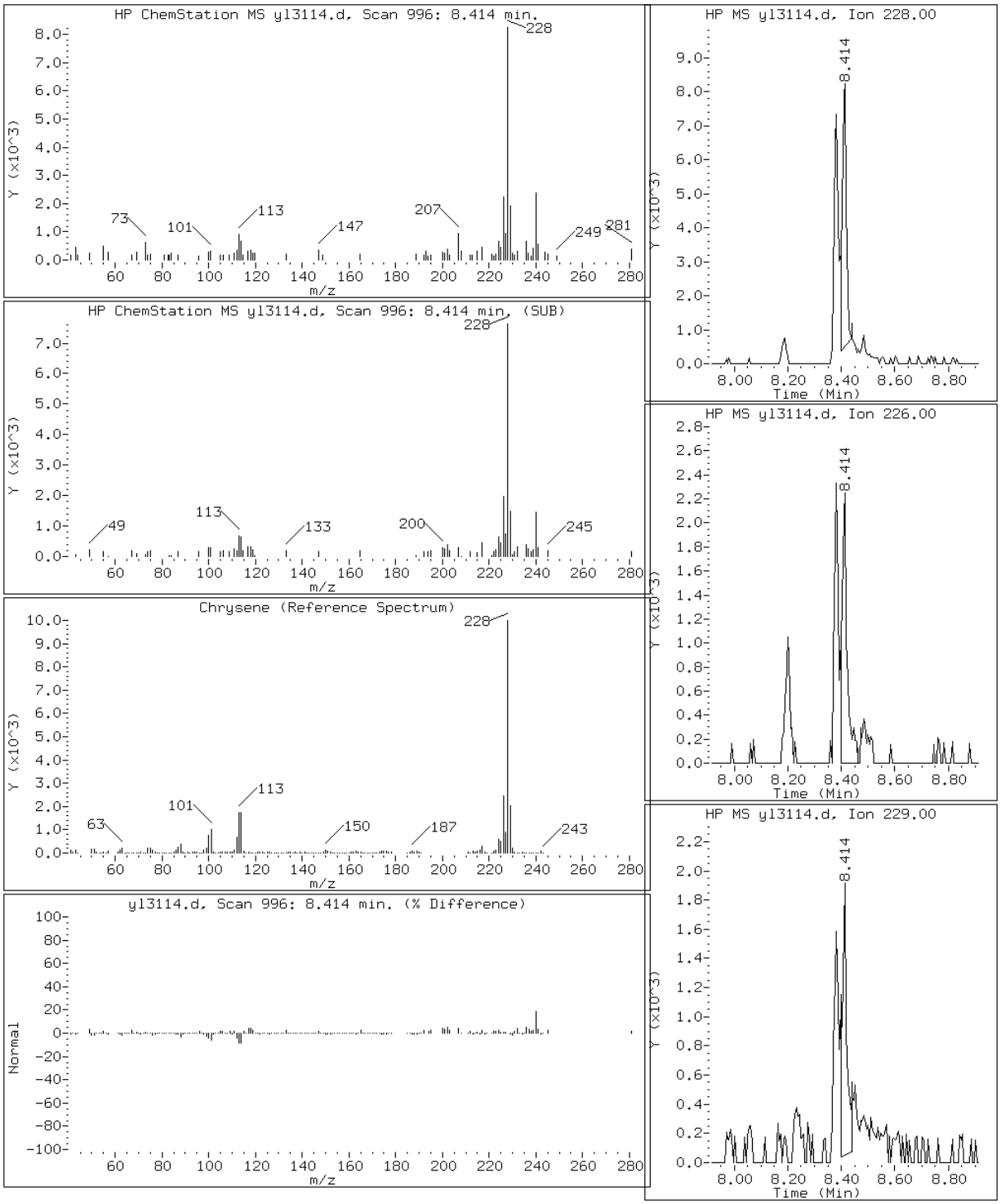
Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB

17 Chrysene



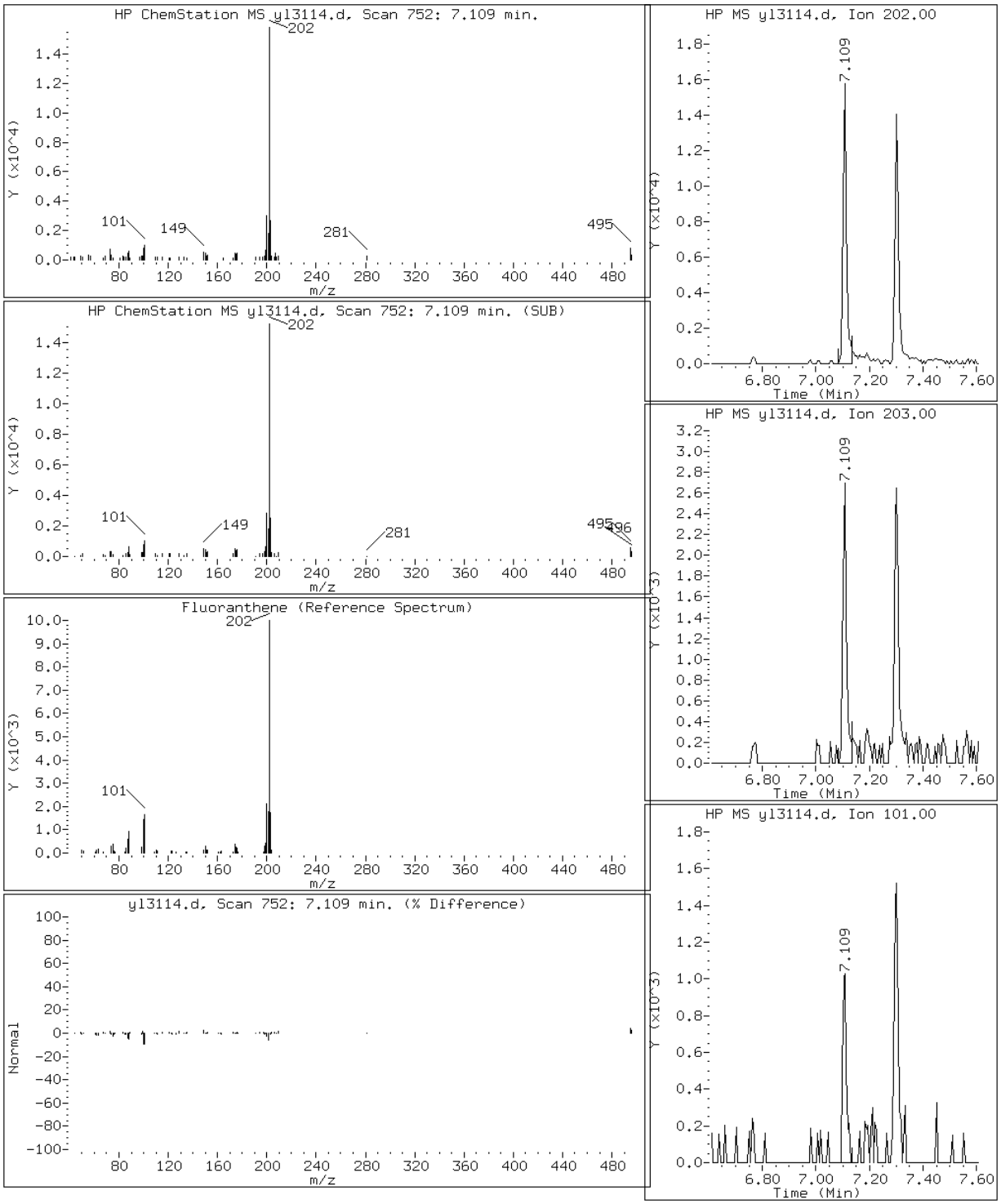
Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB

12 Fluoranthene



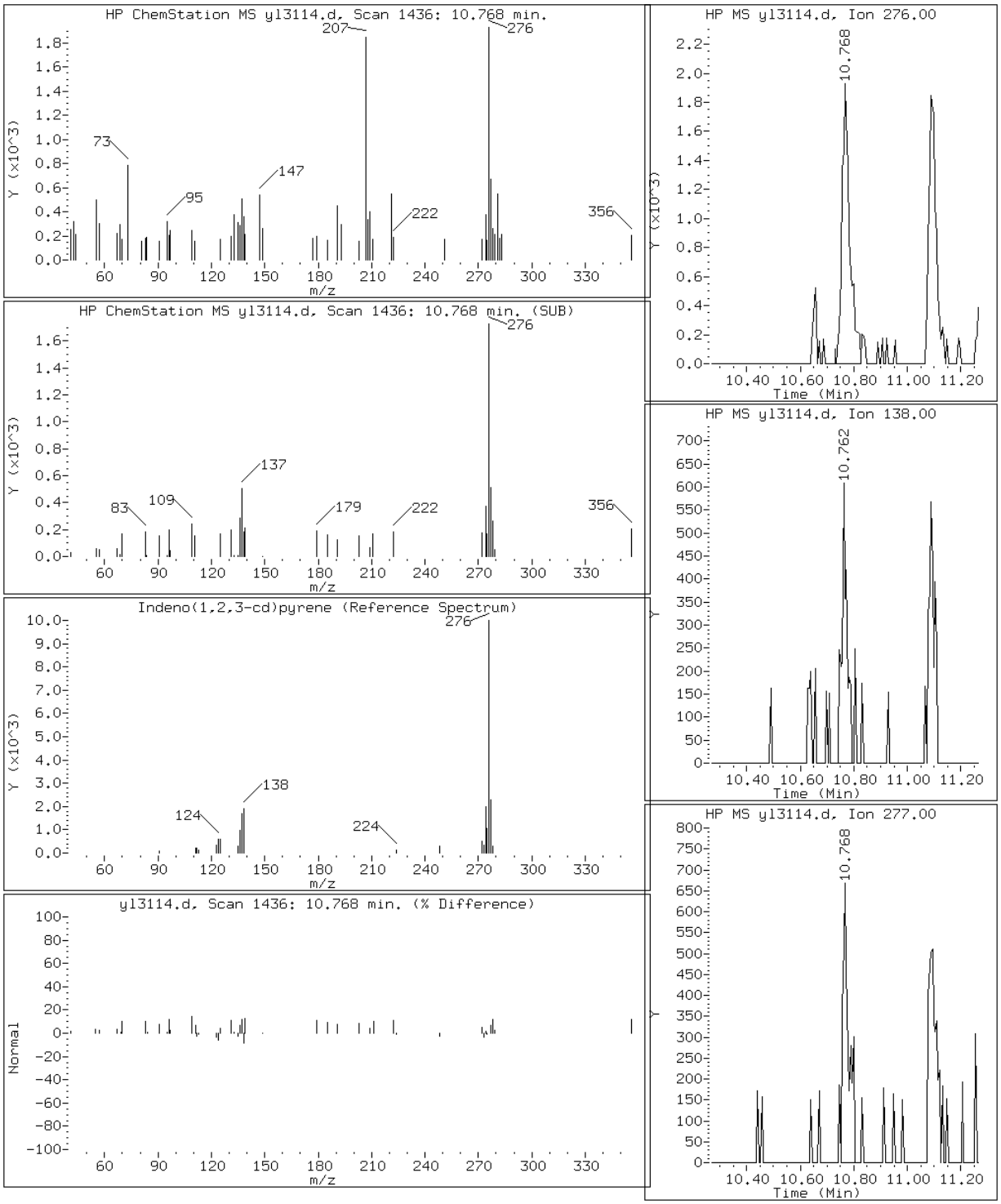
Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB

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



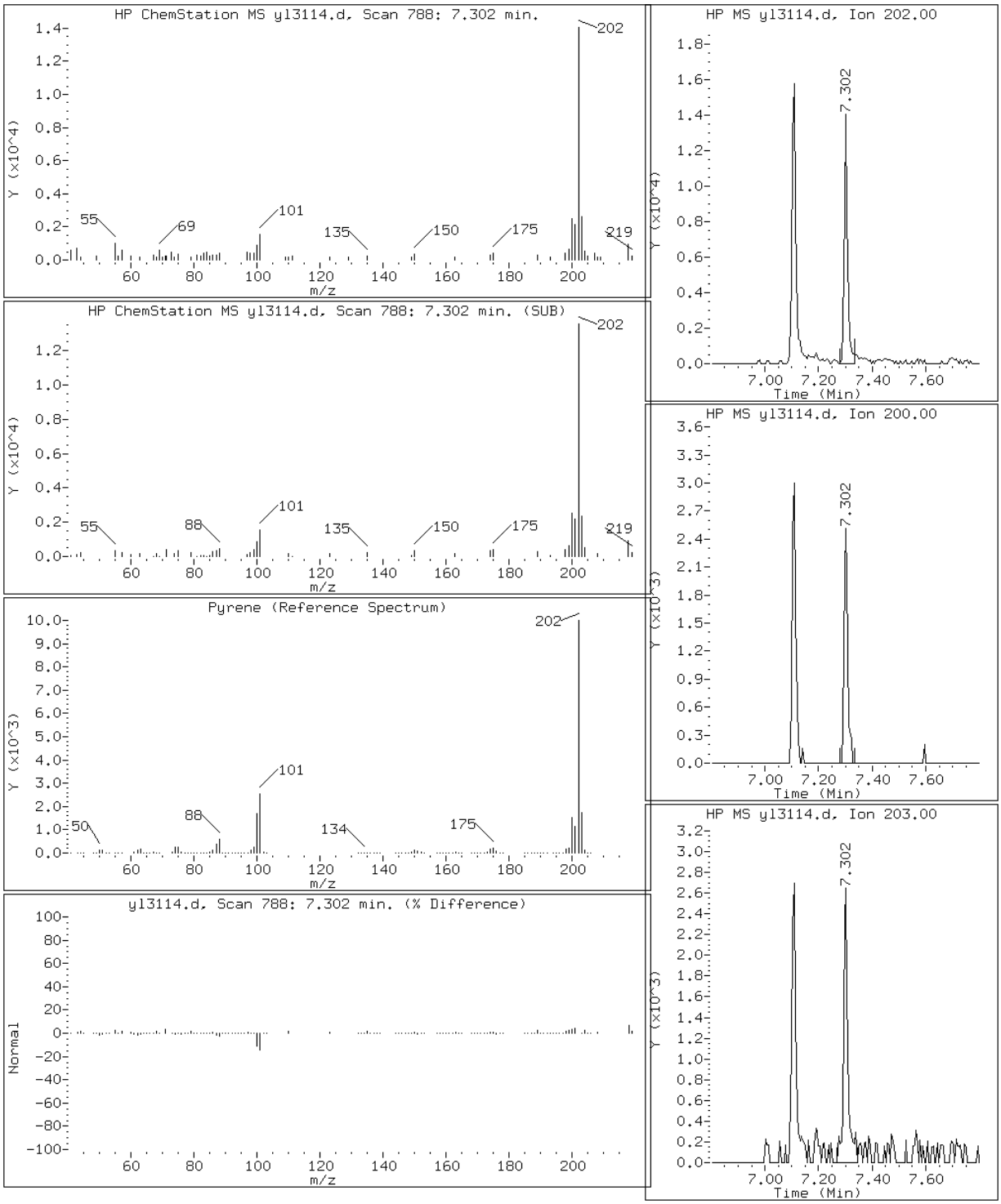
Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB

14 Pyrene



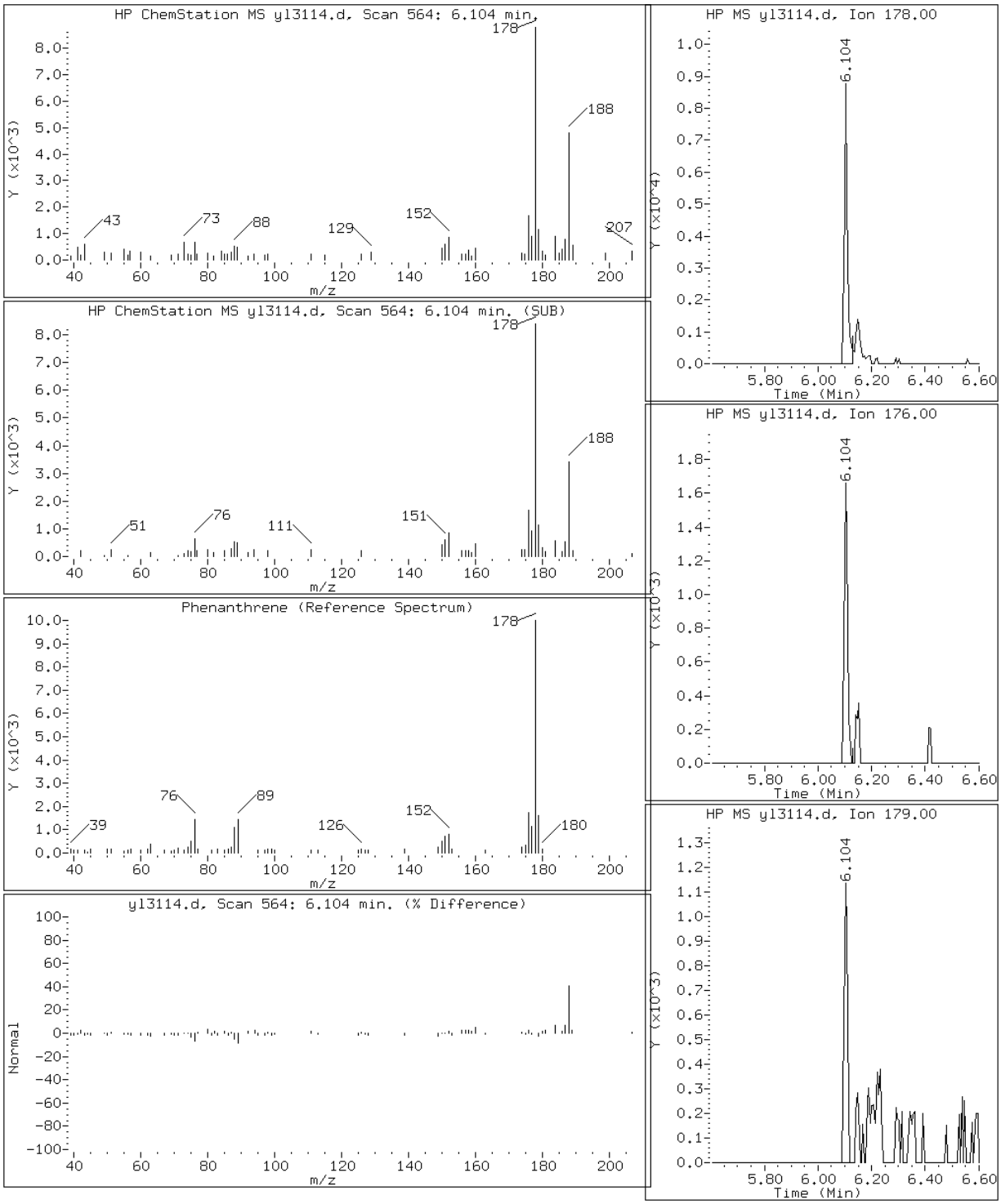
Data File: yl3114.d

Date: 31-DEC-2012 17:20

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021A-22-C DL=10 Operator: VHB

10 Phenanthrene



Manual Integration Report

Data File: yl3114.d
Inj. Date and Time: 31-DEC-2012 17:20
Instrument ID: MSY5975.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/02/2013

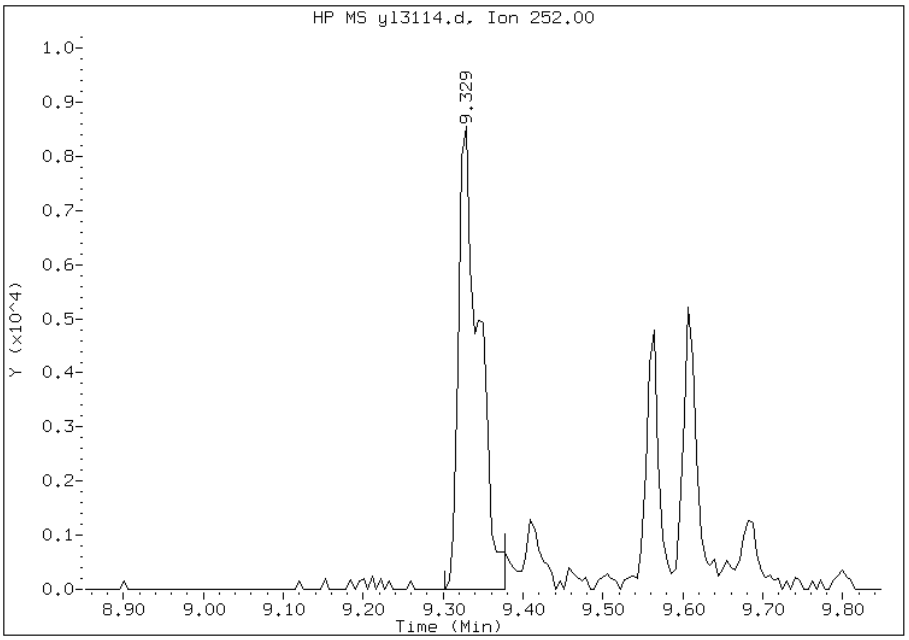
Processing Integration Results

RT: 9.33

Response: 15534

Amount: 0

Conc: 125



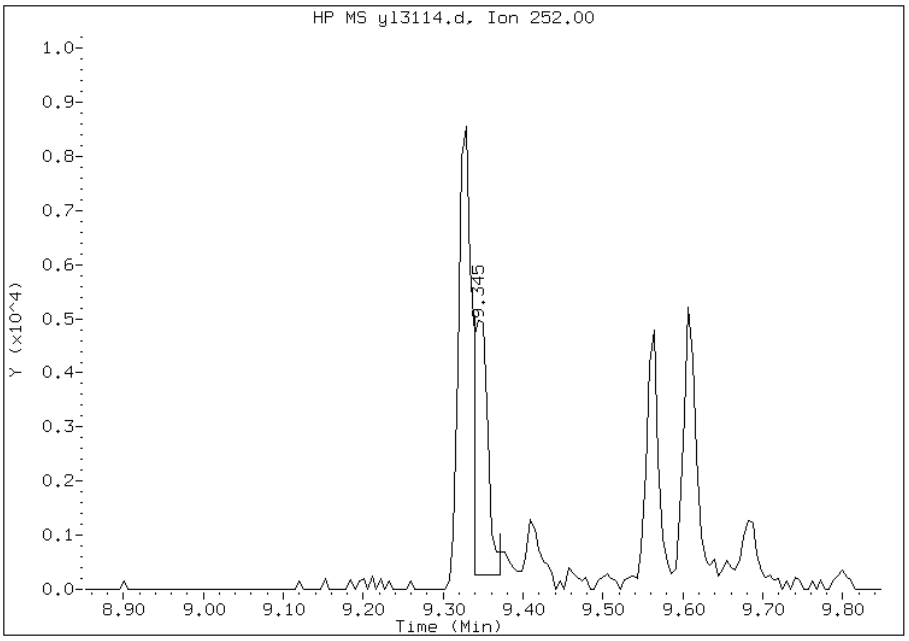
Manual Integration Results

RT: 9.34

Response: 5804

Amount: 0

Conc: 47



Manually Integrated By: chamberk
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-86021-2

SDG No.: 68086021-2

Client Sample ID: CV0421B-CS-SP | Lab Sample ID: 680-86021-23

Matrix: Solid | Lab File ID: yl3115.d

Analysis Method: 8270C_LL_PAH | Date Collected: 12/18/2012 13:57

Extract. Method: 3546 | Date Extracted: 12/28/2012 19:41

Sample wt/vol: 30.34(g) | Date Analyzed: 12/31/2012 17:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 18.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 261526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	120		81	38
91-57-6	2-Methylnaphthalene	140		81	40
83-32-9	Acenaphthene	81	U	81	40
208-96-8	Acenaphthylene	81	U	81	40
120-12-7	Anthracene	83		81	40
56-55-3	Benzo[a]anthracene	320		81	40
50-32-8	Benzo[a]pyrene	370		81	15
205-99-2	Benzo[b]fluoranthene	530		81	40
191-24-2	Benzo[g,h,i]perylene	260		81	40
207-08-9	Benzo[k]fluoranthene	280		81	24
218-01-9	Chrysene	450		81	40
53-70-3	Dibenz(a,h)anthracene	91		81	40
206-44-0	Fluoranthene	640		81	40
86-73-7	Fluorene	81	U	81	40
193-39-5	Indeno[1,2,3-cd]pyrene	230		81	40
91-20-3	Naphthalene	90		81	40
129-00-0	Pyrene	580		81	40
85-01-8	Phenanthrene	360		81	29

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69	D	36-131

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3115.d
Lab Smp Id: 680-86021-A-23-C DL
Inj Date : 31-DEC-2012 17:42
Operator : VHB Inst ID: MSY5975.i
Smp Info : 680-86021-A-23-C DL=10
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 13
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

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

Name	Value	Description
DF	10.00000	Dilution Factor
Vi	1.00000	Injection Volume
Vt	1.00000	Final Volume
Ws	30.00000	Weight Extracted
M	0.00000	% Moisture
A	1000.00000	uL to mL conversion
B	1000.00000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.00000	ug to mg conversion(value = 1 if no conv
GPC	1.00000	GPC FACTOR

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.312	3.312	(1.000)	74688	2.00000	
2 Naphthalene	128	3.333	3.333	(1.006)	9783	0.22226	74.08
3 2-Methylnaphthalene	142	3.937	3.932	(1.189)	9679	0.35234	117.44
4 1-Methylnaphthalene	142	4.018	4.018	(1.213)	8905	0.30806	102.68
* 5 Acenaphthene-d10	164	4.831	4.831	(1.000)	45162	2.00000	
* 9 Phenanthrene-d10	188	6.082	6.082	(1.000)	71808	2.00000	
10 Phenanthrene	178	6.104	6.104	(1.004)	39047	0.88273	294.24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
11 Anthracene	178	6.146	6.146	(1.011)	8657	0.20460	68.20
$ 15 o-Terphenyl	230	6.419	6.419	(0.765)	3935	0.13738	45.79(aH)
12 Fluoranthene	202	7.109	7.109	(1.169)	81609	1.58258	527.52
14 Pyrene	202	7.302	7.302	(0.871)	69195	1.43669	478.89
16 Benzo(a)Anthracene	228	8.382	8.382	(0.999)	29481	0.78307	261.02
* 13 Chrysene-d12	240	8.387	8.387	(1.000)	53065	2.00000	
17 Chrysene	228	8.414	8.414	(1.003)	37633	1.12241	374.13
19 Benzo(b)fluoranthene	252	9.329	9.323	(0.966)	42101	1.31645	438.81(M)
20 Benzo(k)fluoranthene	252	9.345	9.350	(0.967)	22652	0.69446	231.48(M)
21 Benzo(a)pyrene	252	9.607	9.607	(0.994)	24135	0.91500	304.99
* 18 Perylene-d12	264	9.660	9.660	(1.000)	43713	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.284)	16285	0.56493	188.30
23 Dibenzo(a,h)anthracene	278	10.784	10.794	(1.116)	5000	0.22556	75.18
24 Benzo(g,h,i)perylene	276	11.089	11.094	(1.148)	14479	0.63144	210.47

QC Flag Legend

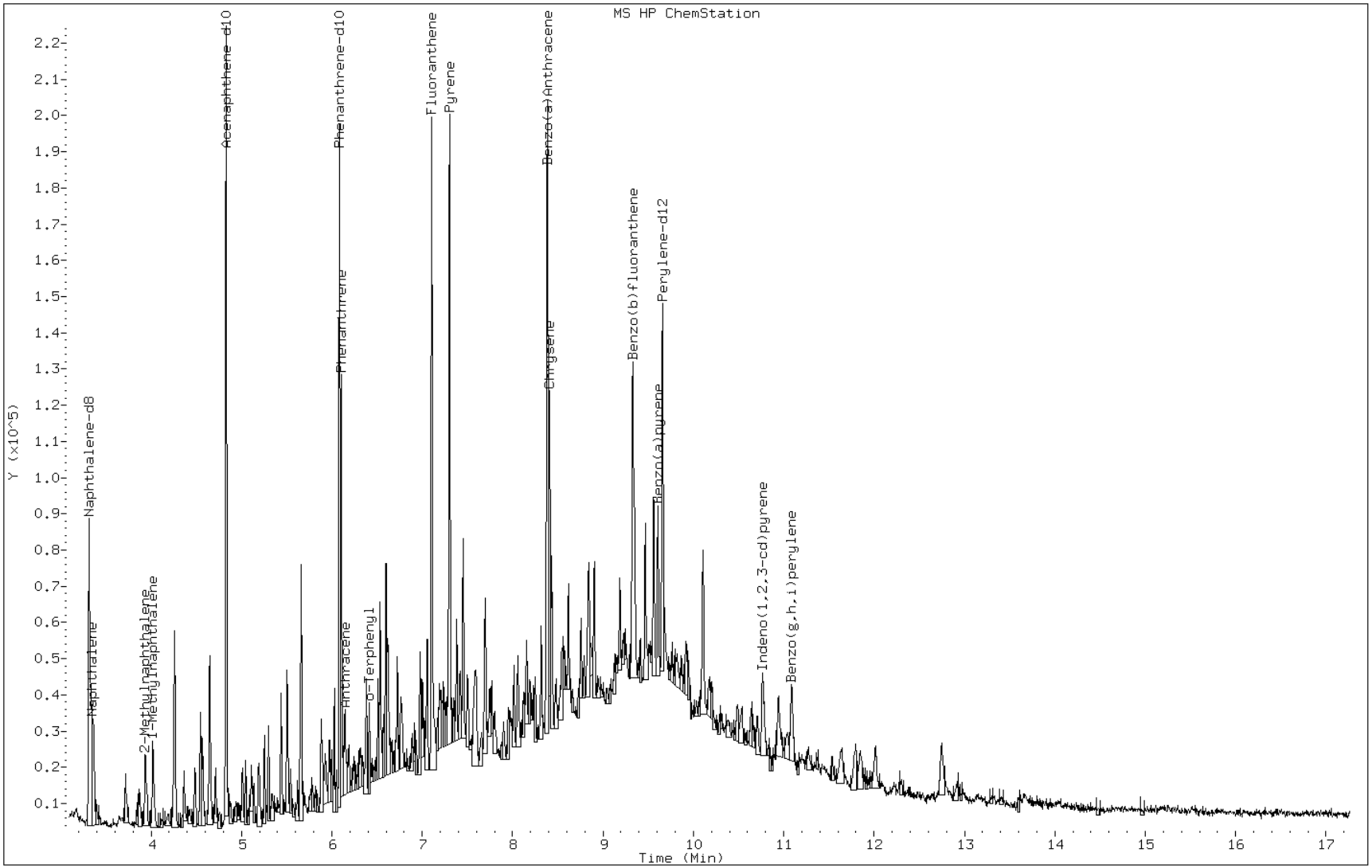
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB



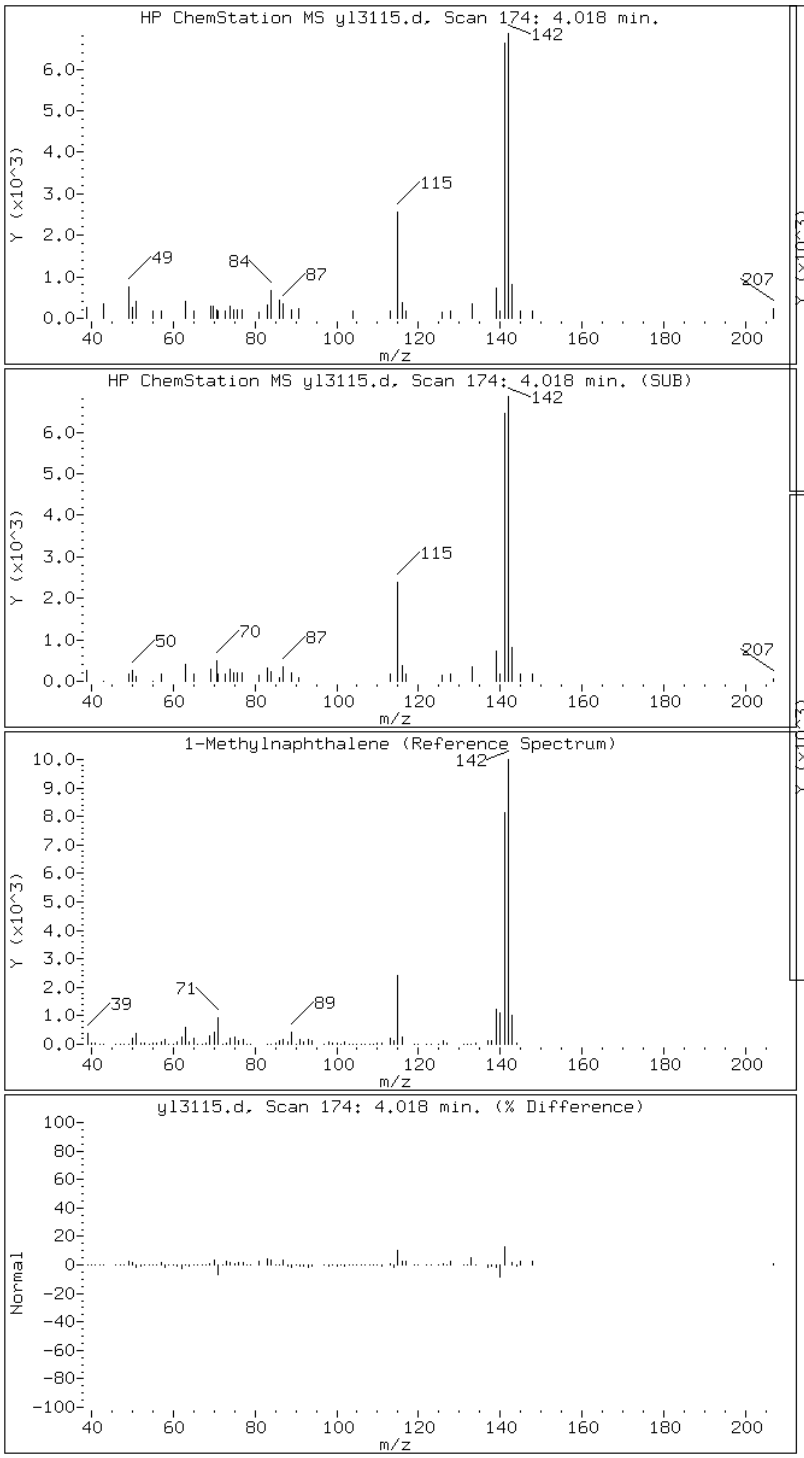
Data File: yl3115.d

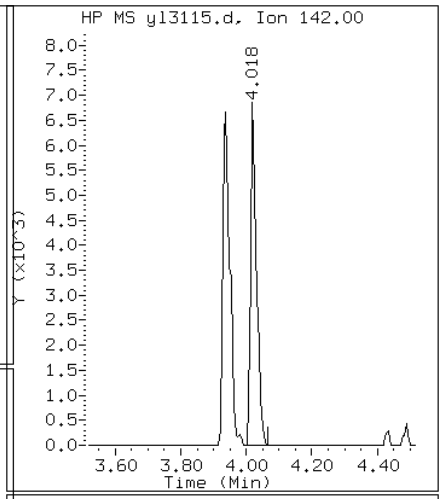
Date: 31-DEC-2012 17:42

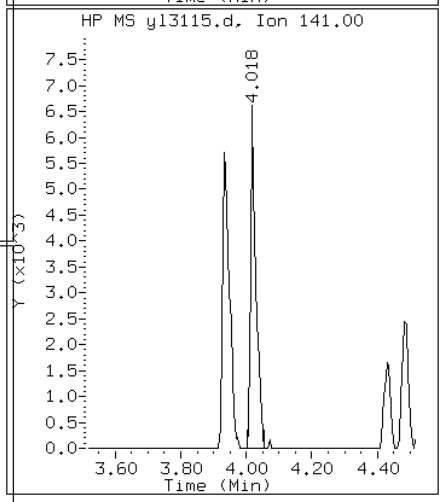
Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

4 1-Methylnaphthalene







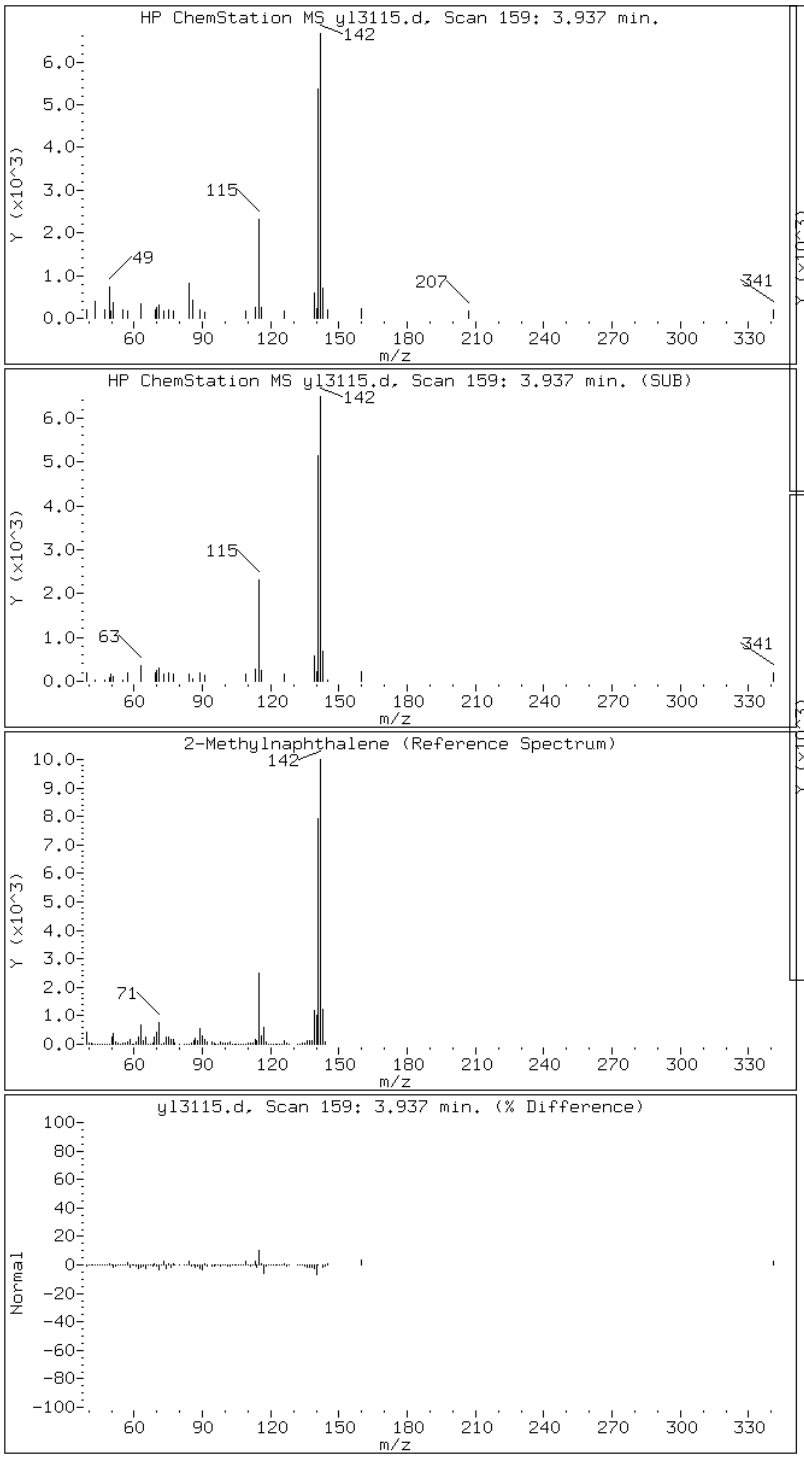
Data File: yl3115.d

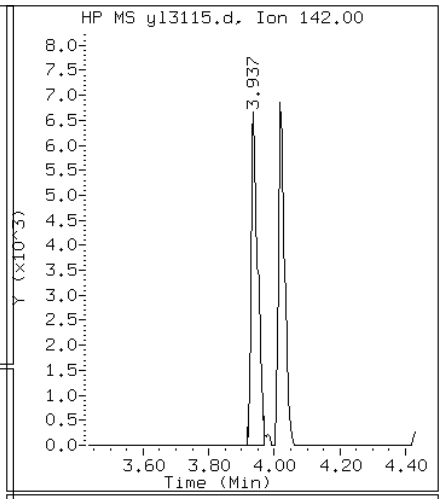
Date: 31-DEC-2012 17:42

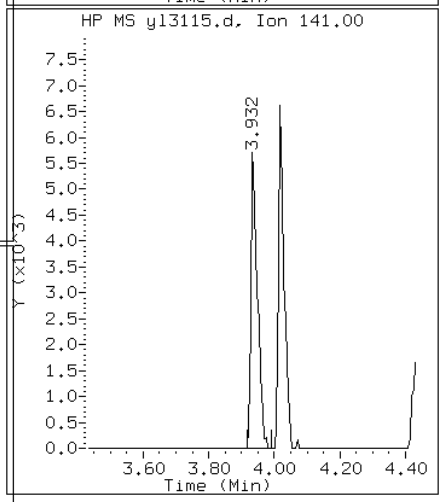
Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

3 2-Methylnaphthalene







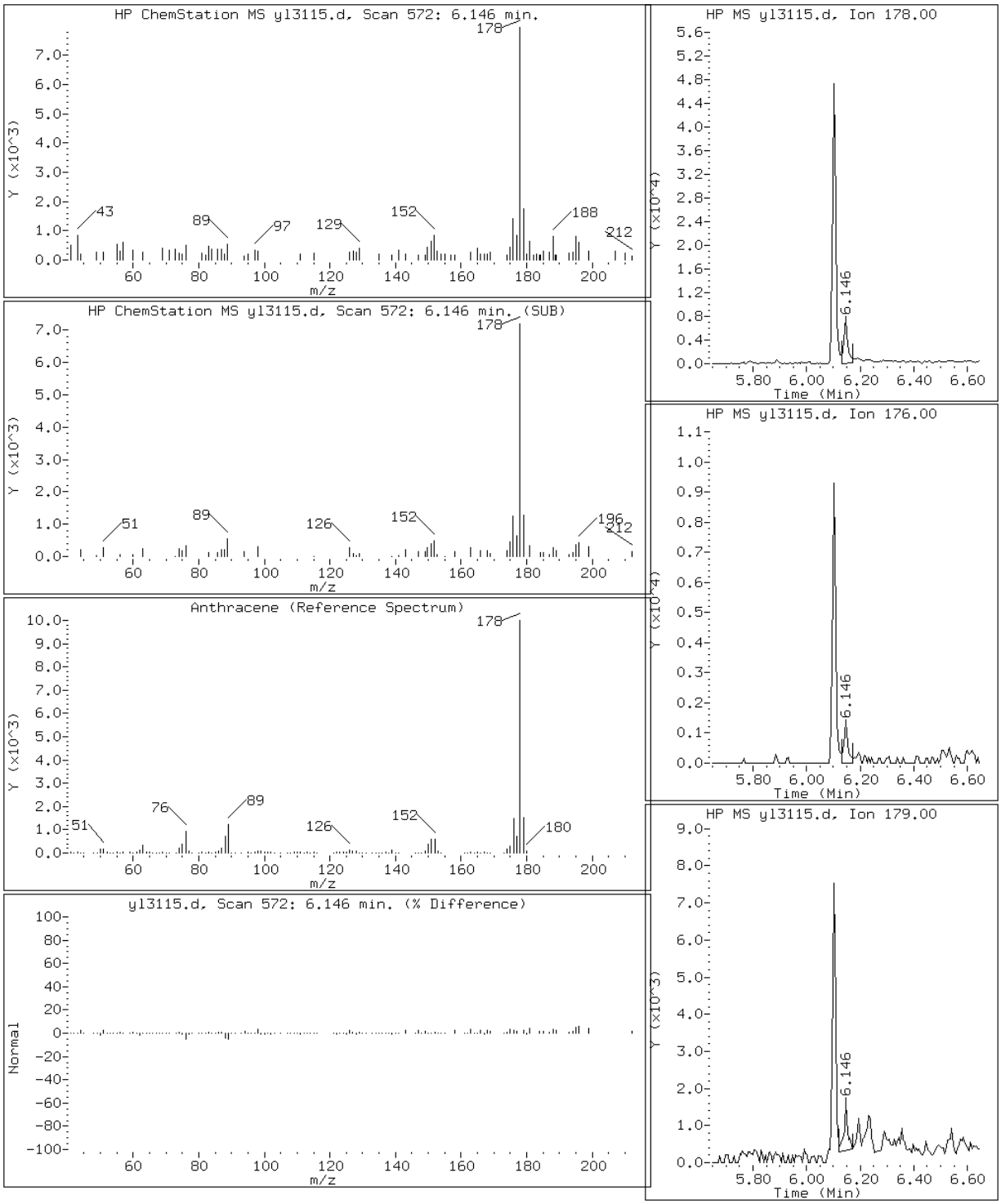
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

11 Anthracene



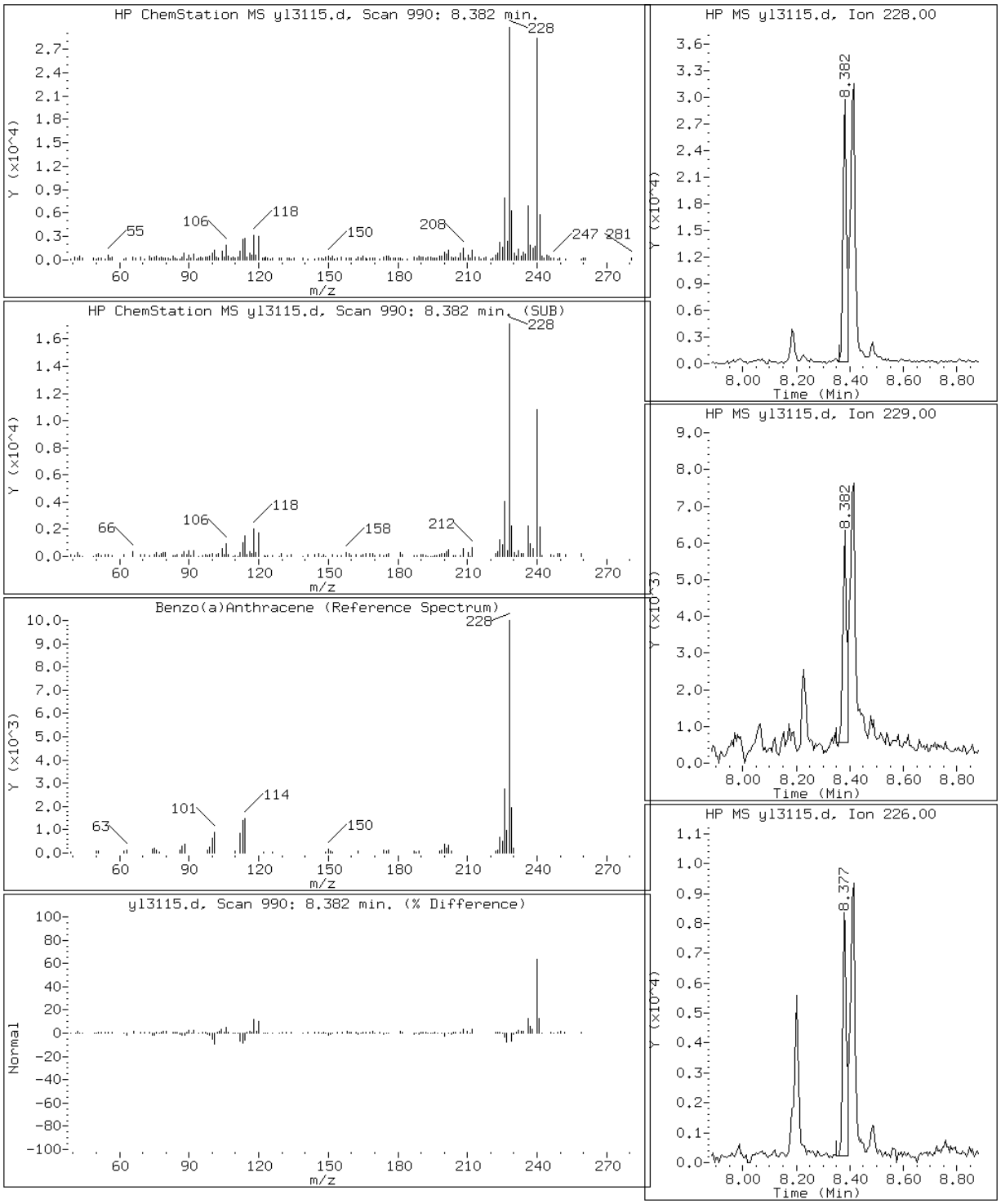
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

16 Benzo(a)Anthracene



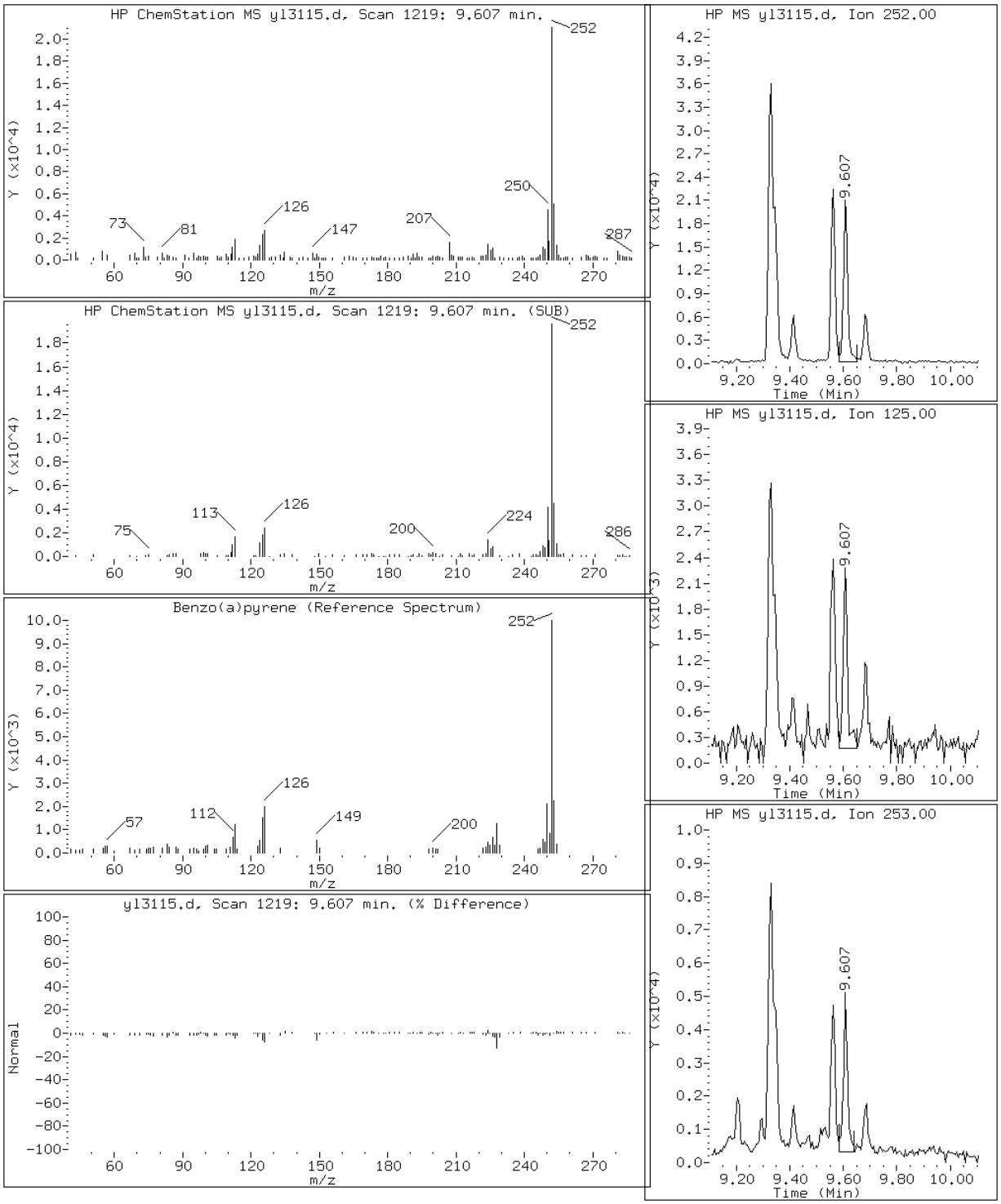
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

21 Benzo(a)pyrene



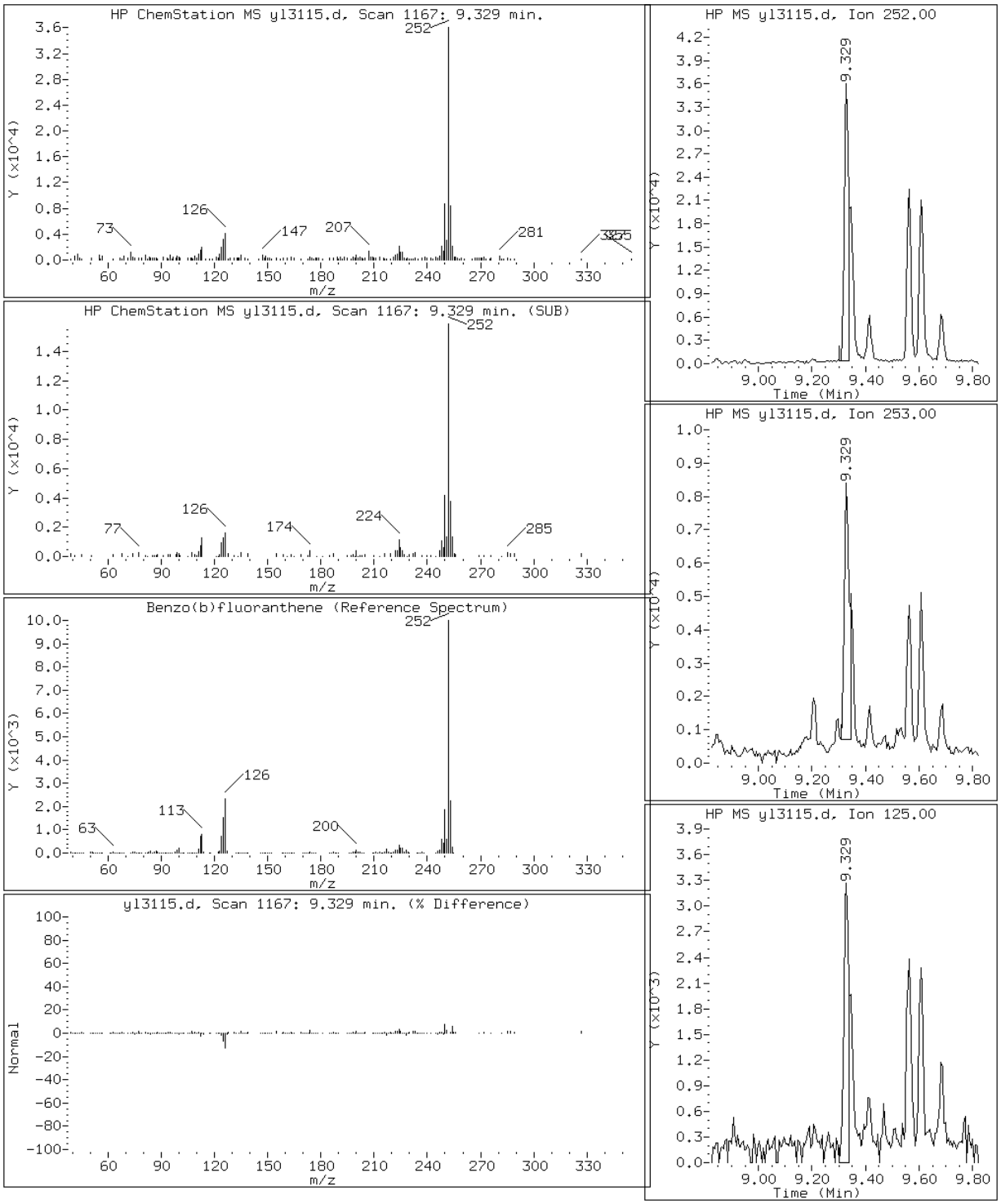
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

19 Benzo(b)fluoranthene



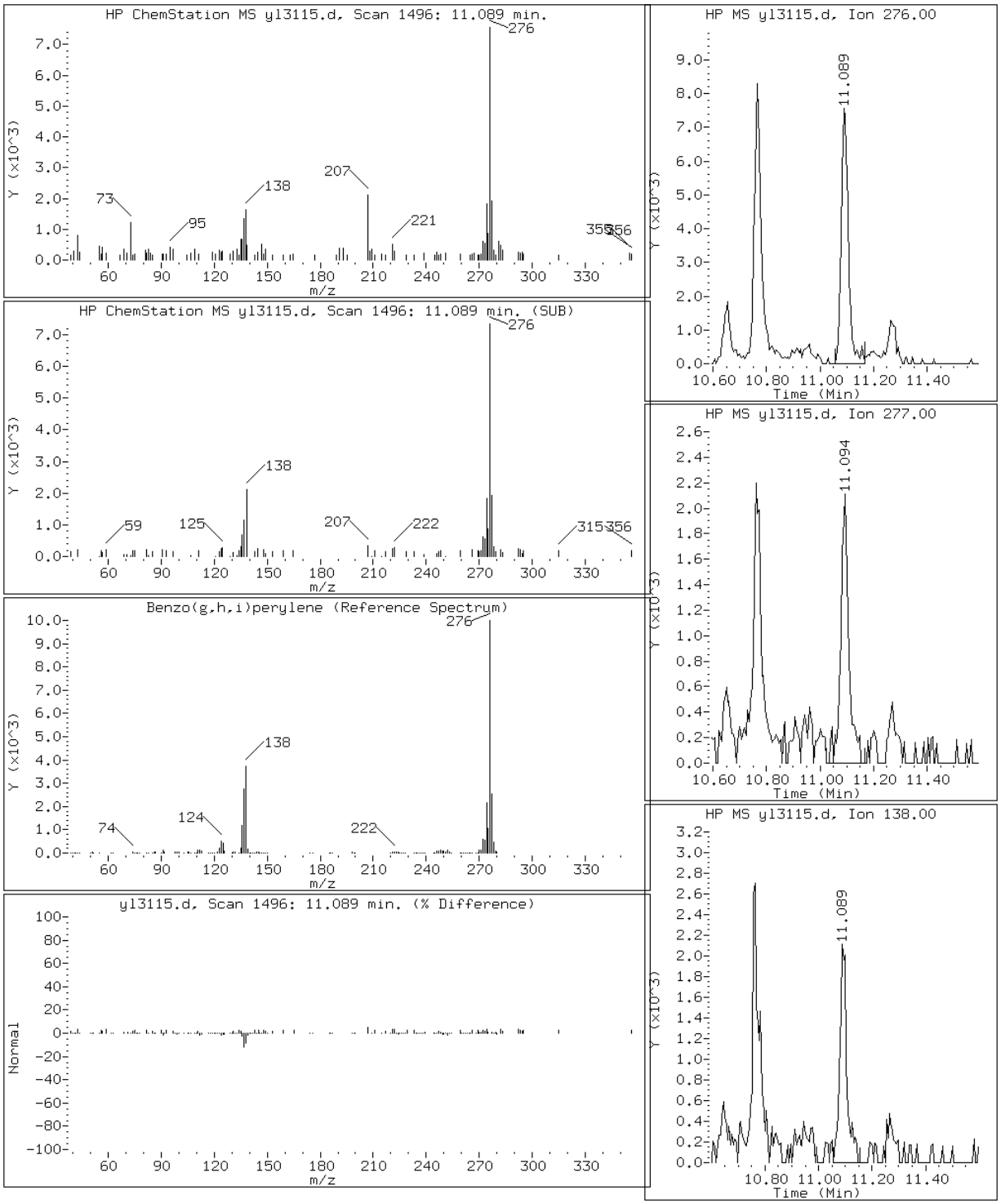
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

24 Benzo(g,h,i)perylene



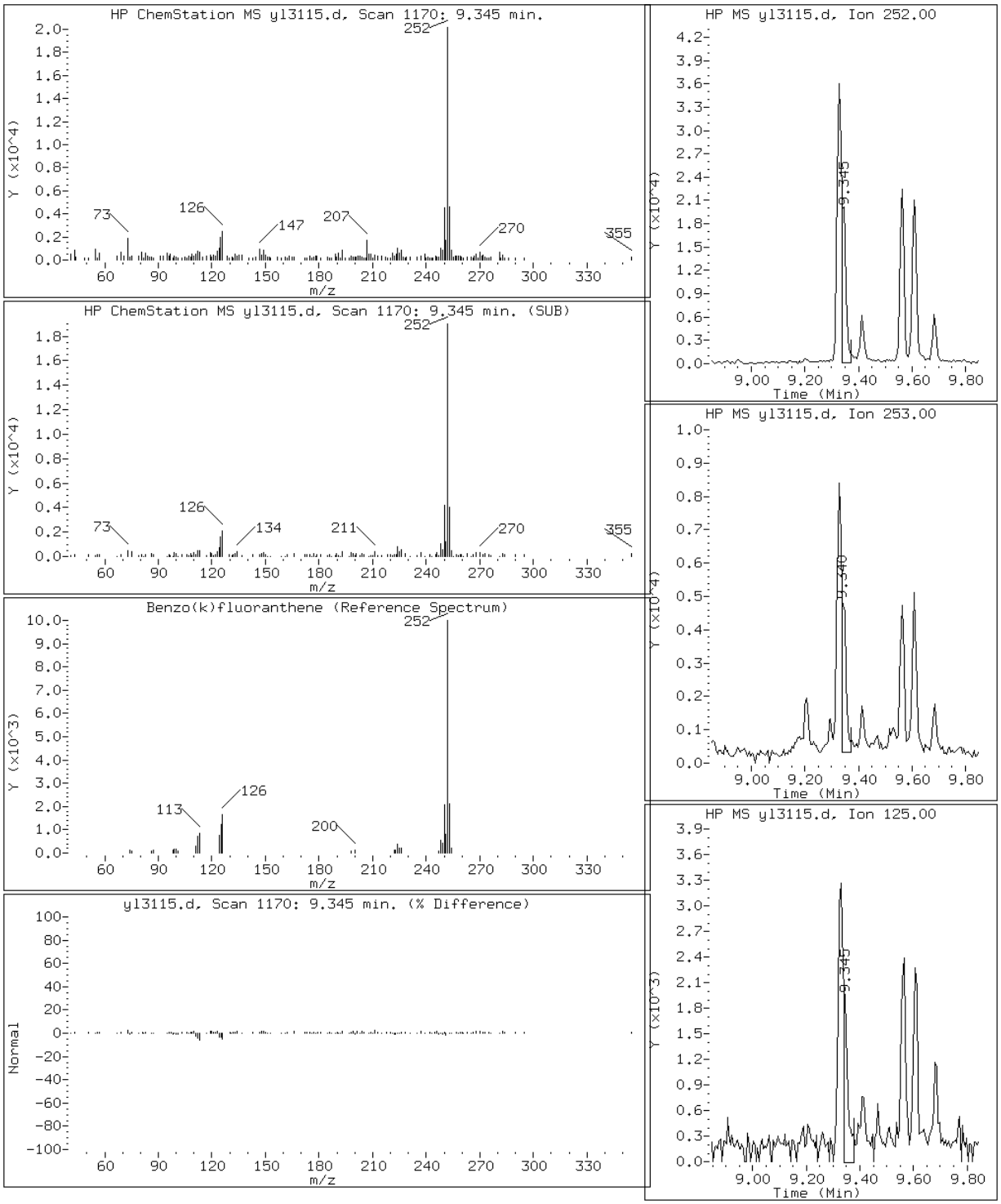
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

20 Benzo(k)fluoranthene



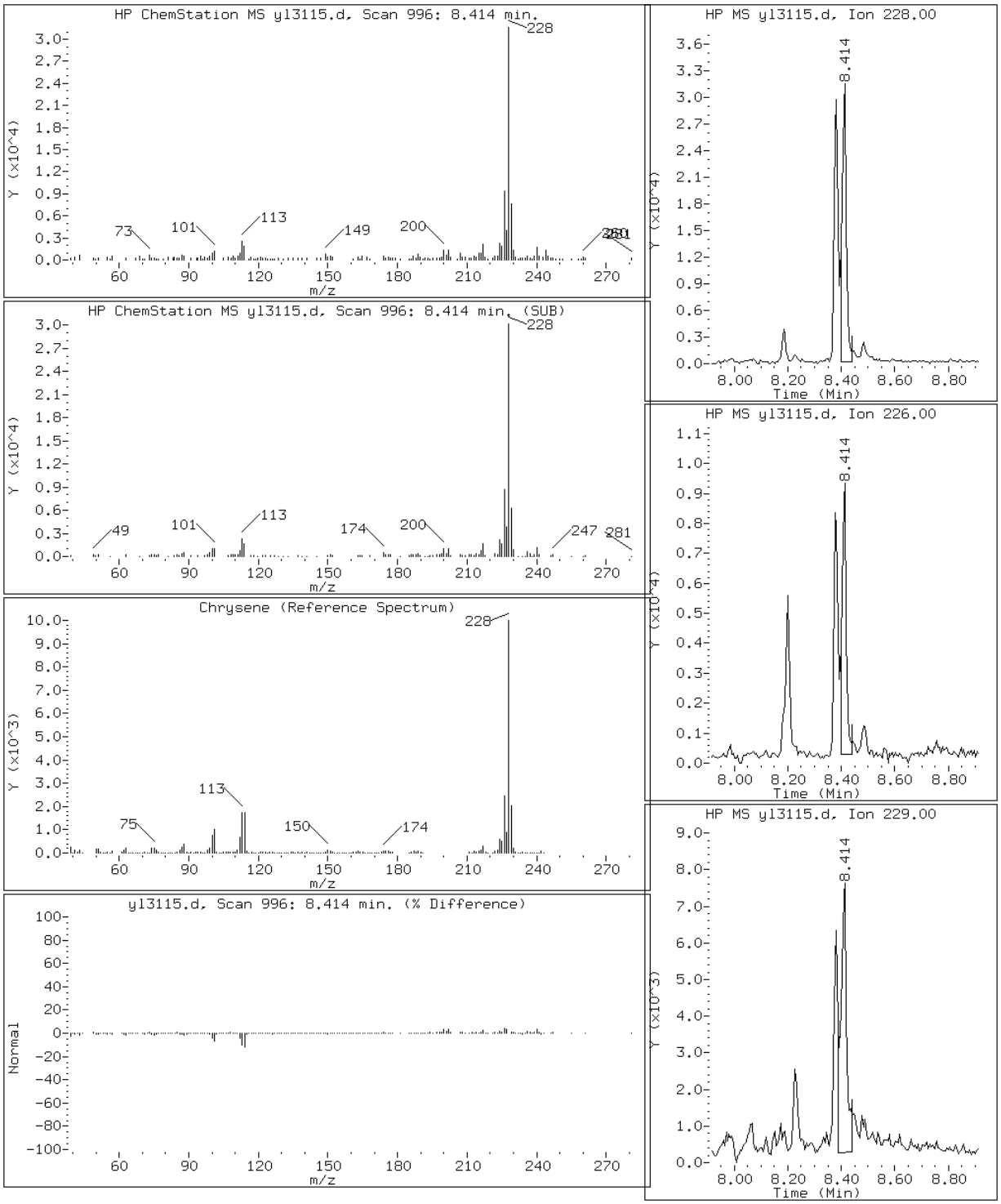
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

17 Chrysene



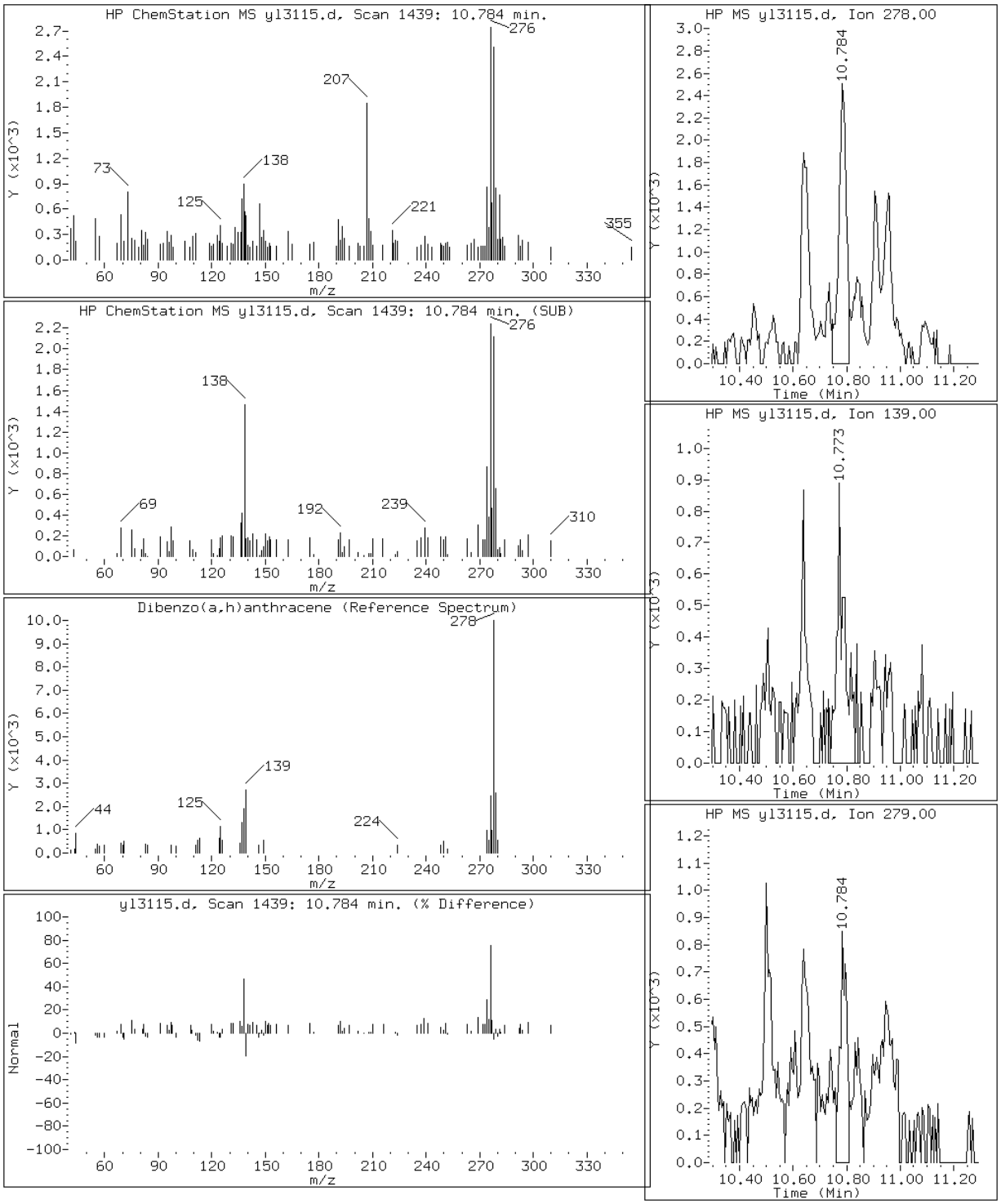
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

23 Dibenzo(a,h)anthracene



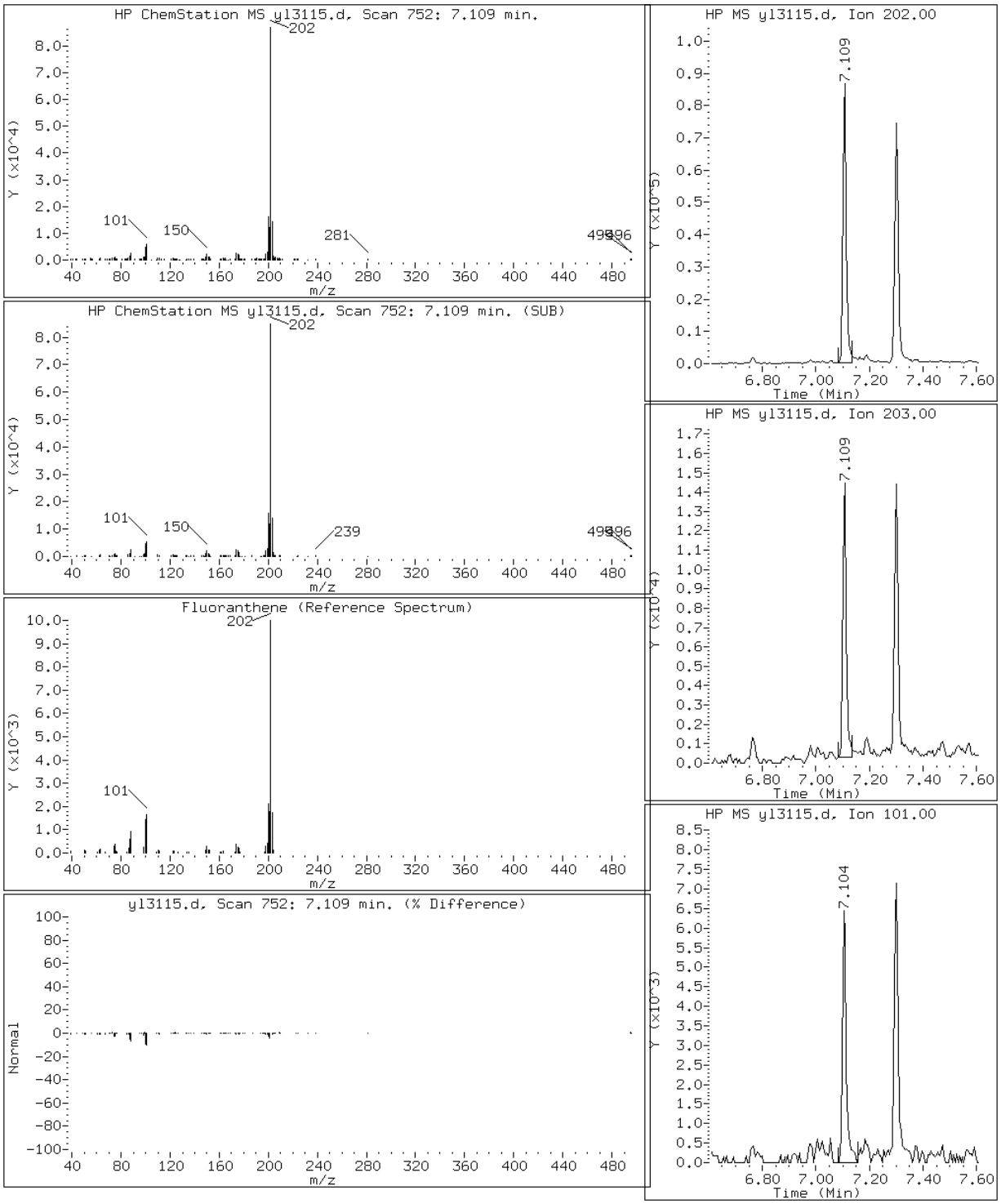
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

12 Fluoranthene



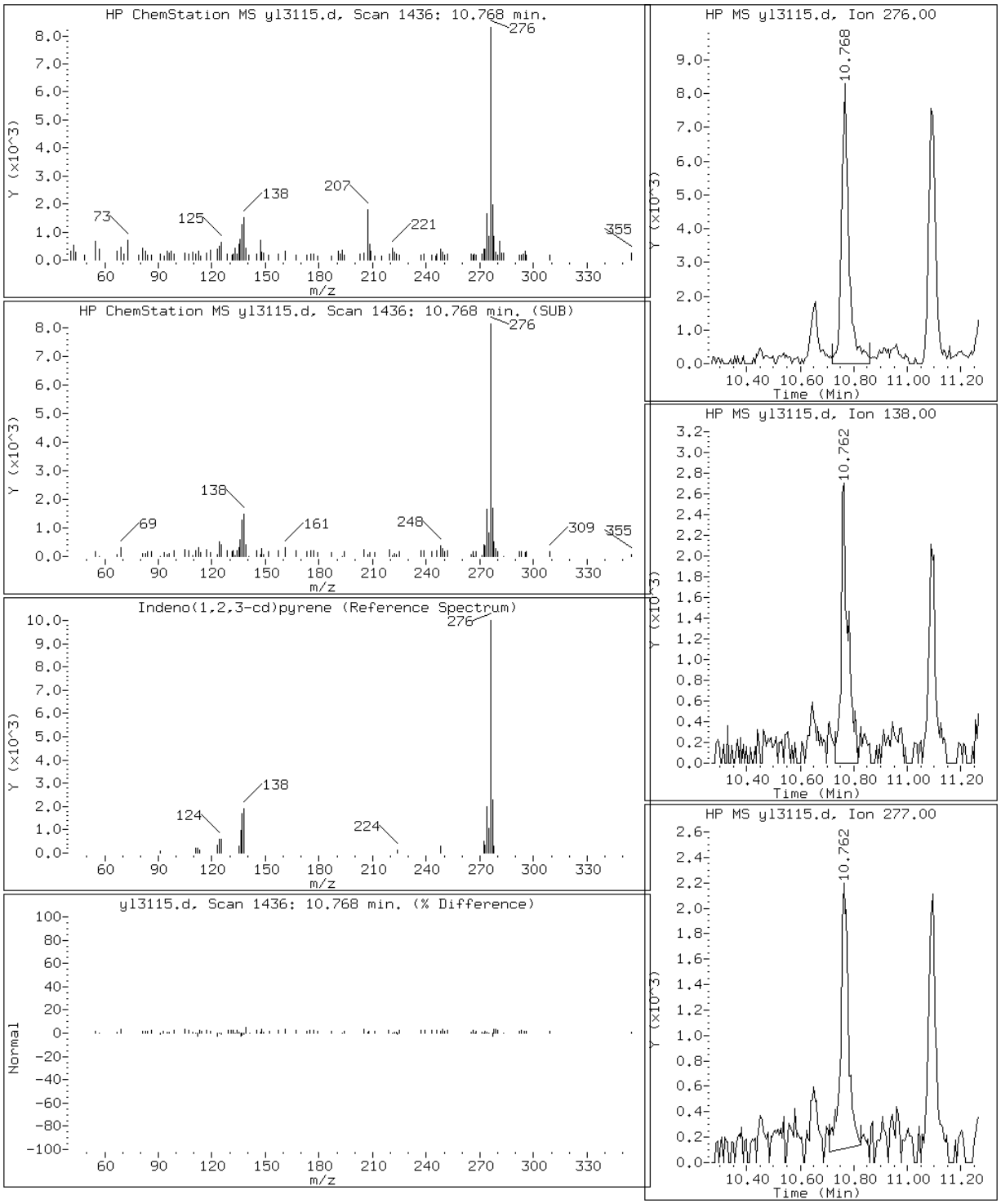
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

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



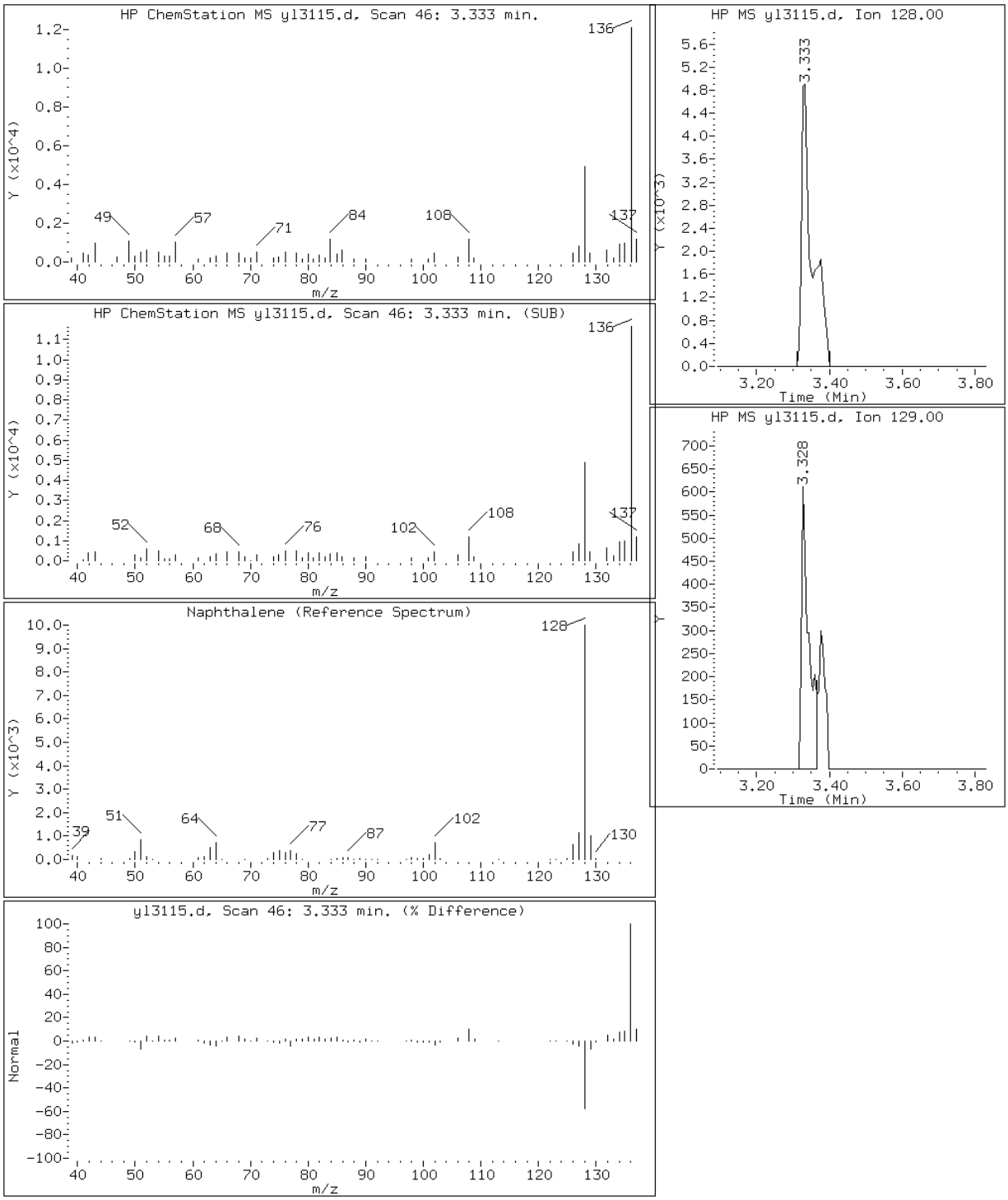
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

2 Naphthalene



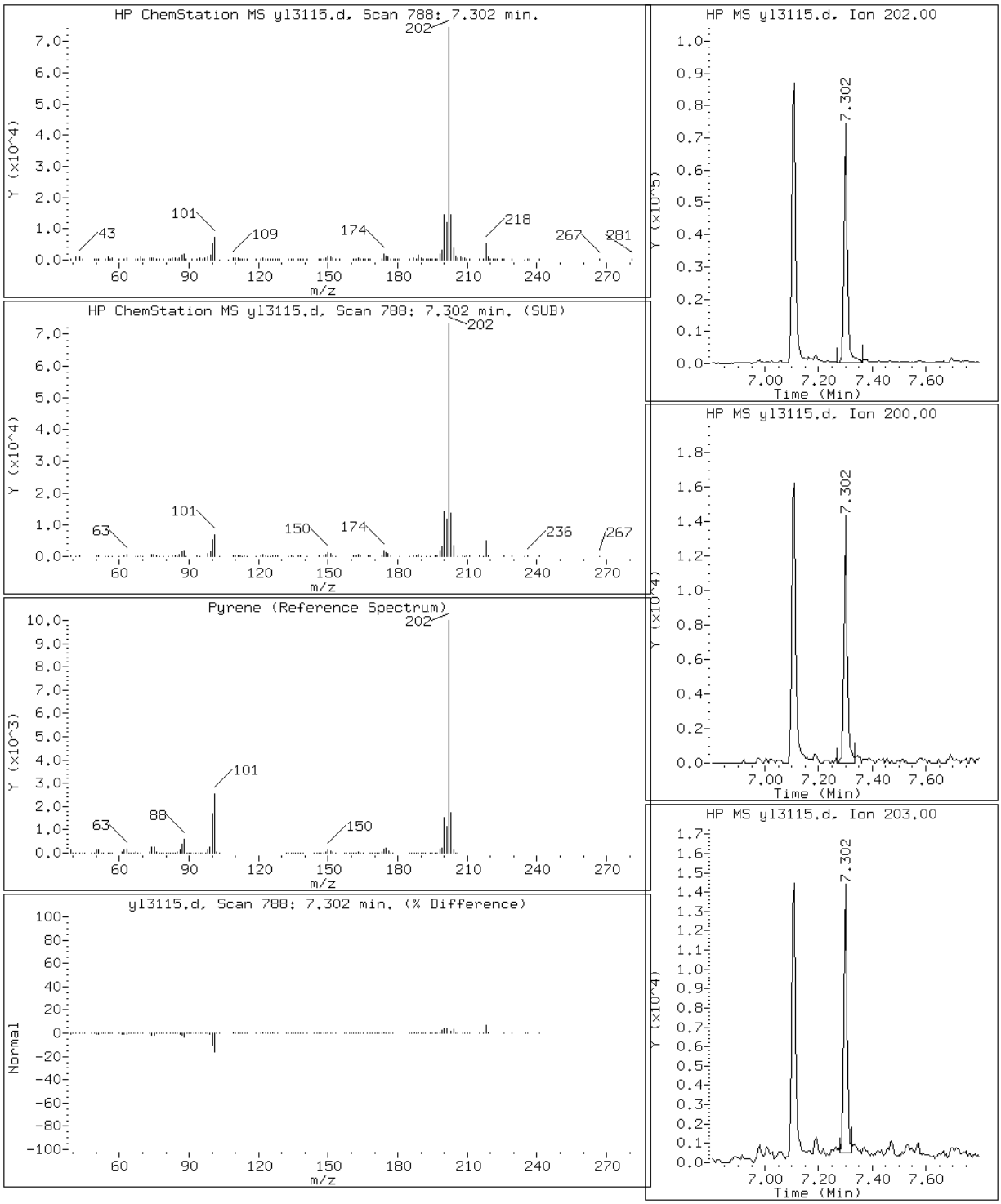
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

14 Pyrene



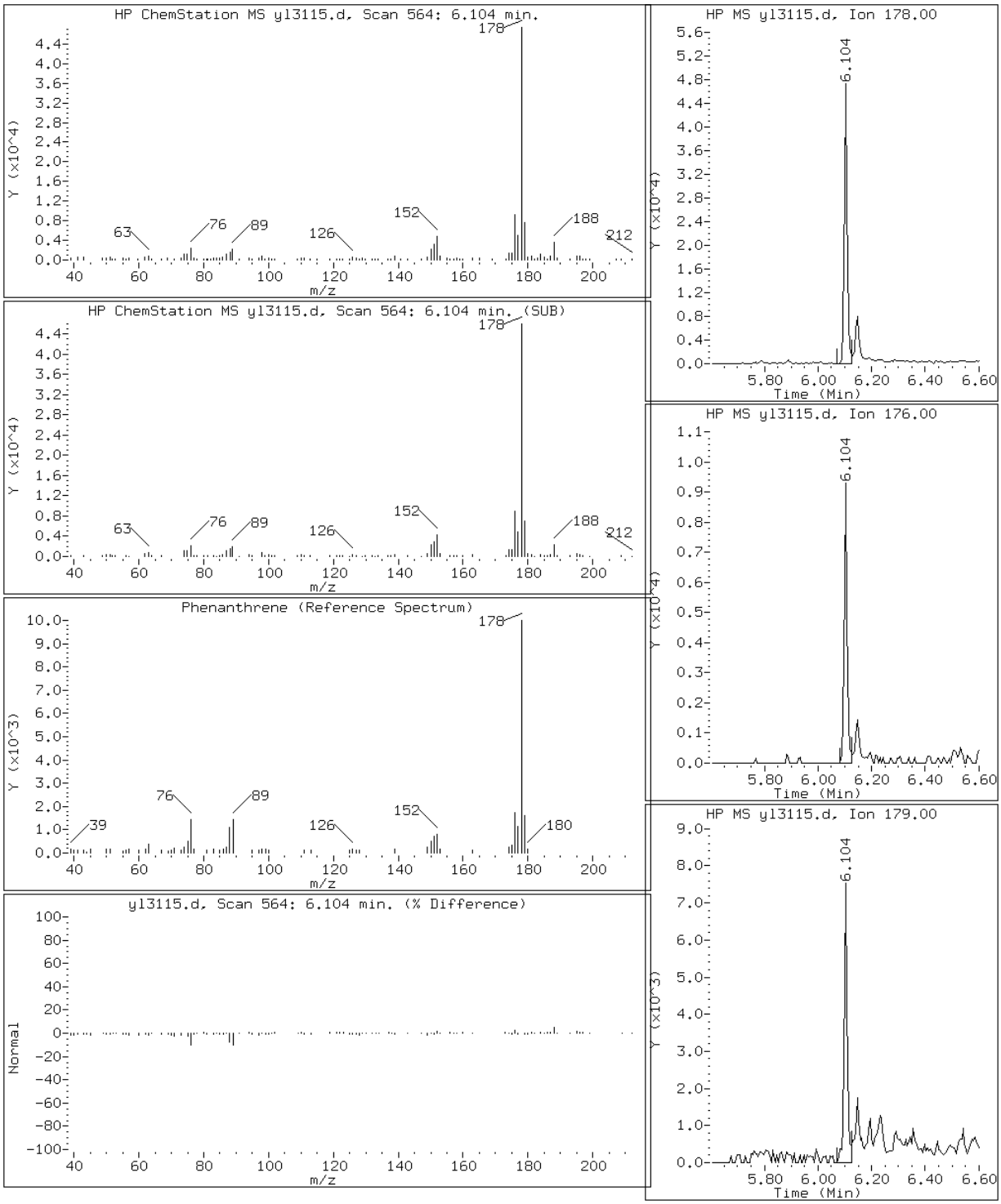
Data File: yl3115.d

Date: 31-DEC-2012 17:42

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-23-C DL=10 Operator: VHB

10 Phenanthrene



Manual Integration Report

Data File: yl3115.d
Inj. Date and Time: 31-DEC-2012 17:42
Instrument ID: MSY5975.i
Client ID:
Compound: 19 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 01/02/2013

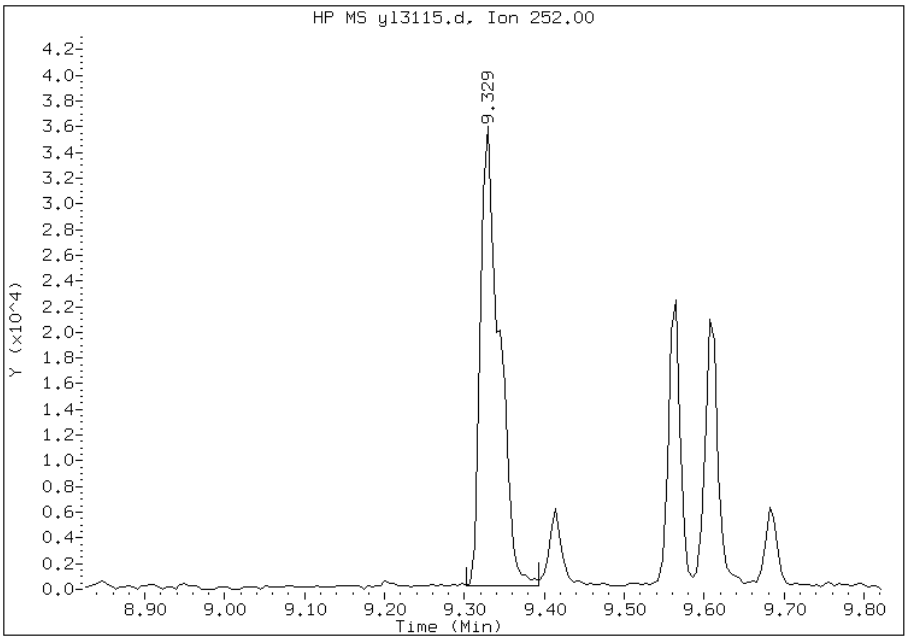
Processing Integration Results

RT: 9.33

Response: 58672

Amount: 2

Conc: 612



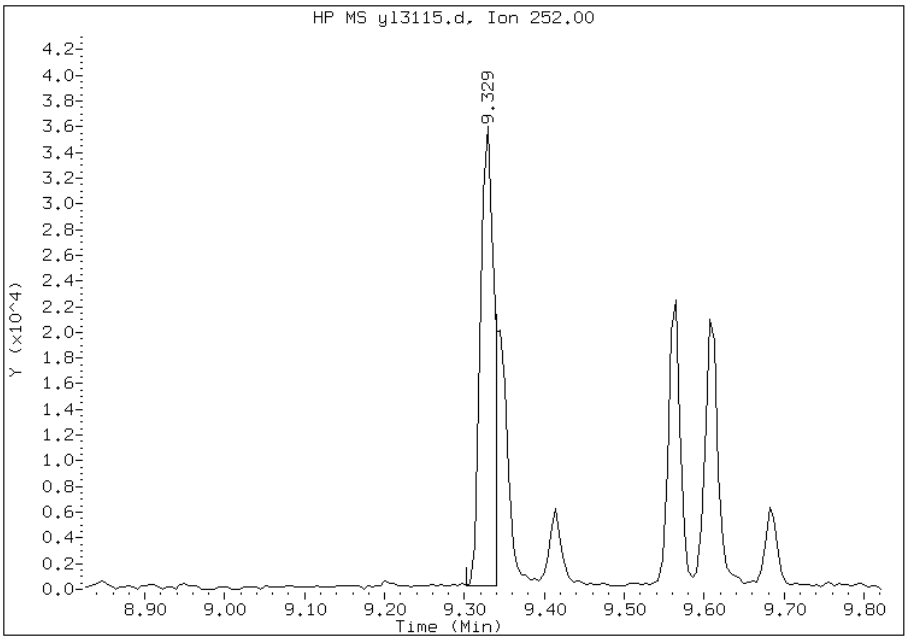
Manual Integration Results

RT: 9.33

Response: 42101

Amount: 1

Conc: 439



Manually Integrated By: chamberk
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: yl3115.d
Inj. Date and Time: 31-DEC-2012 17:42
Instrument ID: MSY5975.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/02/2013

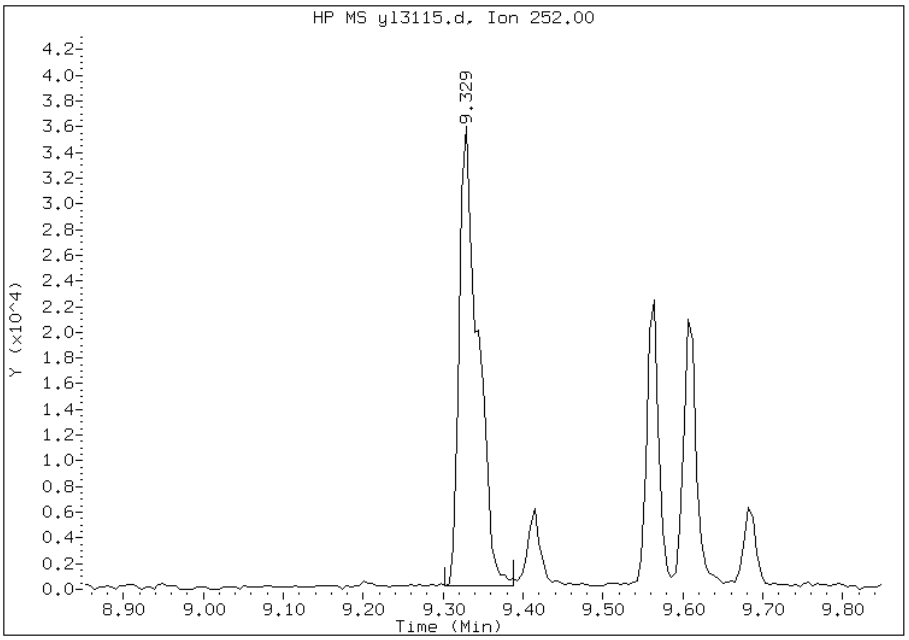
Processing Integration Results

RT: 9.33

Response: 58825

Amount: 2

Conc: 601



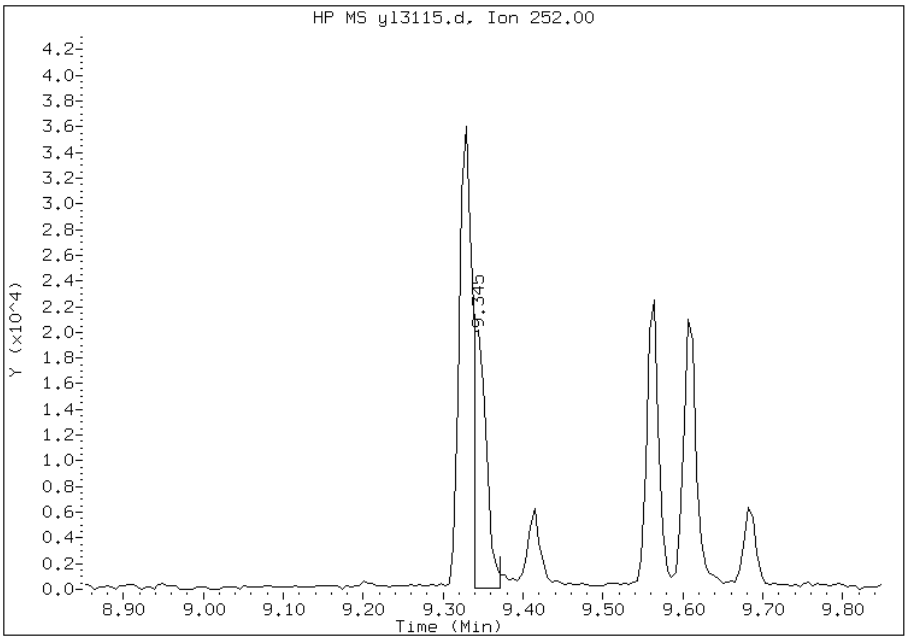
Manual Integration Results

RT: 9.34

Response: 22652

Amount: 1

Conc: 231



Manually Integrated By: chamberk
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-86021-2

SDG No.: 68086021-2

Client Sample ID: CV0235C-CS | Lab Sample ID: 680-86021-24

Matrix: Solid | Lab File ID: yl3116.d

Analysis Method: 8270C_LL_PAH | Date Collected: 12/18/2012 15:40

Extract. Method: 3546 | Date Extracted: 12/28/2012 19:41

Sample wt/vol: 30.31(g) | Date Analyzed: 12/31/2012 18:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 20.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 261526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	92		83	39
91-57-6	2-Methylnaphthalene	120		83	41
83-32-9	Acenaphthene	83	U	83	41
208-96-8	Acenaphthylene	83	U	83	41
120-12-7	Anthracene	83	U	83	41
56-55-3	Benzo[a]anthracene	140		83	41
50-32-8	Benzo[a]pyrene	160		83	15
205-99-2	Benzo[b]fluoranthene	250		83	41
191-24-2	Benzo[g,h,i]perylene	110		83	41
207-08-9	Benzo[k]fluoranthene	120		83	25
218-01-9	Chrysene	220		83	41
53-70-3	Dibenz(a,h)anthracene	56	J	83	41
206-44-0	Fluoranthene	270		83	41
86-73-7	Fluorene	83	U	83	41
193-39-5	Indeno[1,2,3-cd]pyrene	96		83	41
91-20-3	Naphthalene	79	J	83	41
129-00-0	Pyrene	220		83	41
85-01-8	Phenanthrene	230		83	30

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3116.d
Lab Smp Id: 680-86021-A-24-C DL
Inj Date : 31-DEC-2012 18:05
Operator : VHB Inst ID: MSY5975.i
Smp Info : 680-86021-A-24-C DL=10
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 14
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

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

Name	Value	Description
DF	10.00000	Dilution Factor
Vi	1.00000	Injection Volume
Vt	1.00000	Final Volume
Ws	30.00000	Weight Extracted
M	0.00000	% Moisture
A	1000.00000	uL to mL conversion
B	1000.00000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.00000	ug to mg conversion(value = 1 if no conv
GPC	1.00000	GPC FACTOR

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.311	3.312	(1.000)	86117	2.00000	
2 Naphthalene	128	3.333	3.333	(1.006)	9697	0.19107	63.68(a)
3 2-Methylnaphthalene	142	3.937	3.932	(1.189)	9368	0.29576	98.58
4 1-Methylnaphthalene	142	4.018	4.018	(1.213)	7377	0.22133	73.77
* 5 Acenaphthene-d10	164	4.830	4.831	(1.000)	52404	2.00000	
* 9 Phenanthrene-d10	188	6.082	6.082	(1.000)	84927	2.00000	
10 Phenanthrene	178	6.103	6.104	(1.004)	29255	0.55920	186.39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
12 Fluoranthene	202	7.109	7.109	(1.169)	40274	0.66036	220.11
14 Pyrene	202	7.302	7.302	(0.871)	34323	0.52254	174.18
16 Benzo(a)Anthracene	228	8.382	8.382	(0.999)	17777	0.34623	115.41
* 13 Chrysene-d12	240	8.387	8.387	(1.000)	72370	2.00000	
17 Chrysene	228	8.414	8.414	(1.003)	24249	0.53031	176.76
19 Benzo(b)fluoranthene	252	9.329	9.323	(0.966)	26315	0.59006	196.68(M)
20 Benzo(k)fluoranthene	252	9.339	9.350	(0.967)	13137	0.28881	96.26(M)
21 Benzo(a)pyrene	252	9.607	9.607	(0.994)	14586	0.39653	132.17
* 18 Perylene-d12	264	9.660	9.660	(1.000)	60959	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.767	10.768	(1.284)	9120	0.23198	77.32
23 Dibenzo(a,h)anthracene	278	10.789	10.794	(1.117)	4144	0.13406	44.68(a)
24 Benzo(g,h,i)perylene	276	11.094	11.094	(1.148)	8718	0.27264	90.87

QC Flag Legend

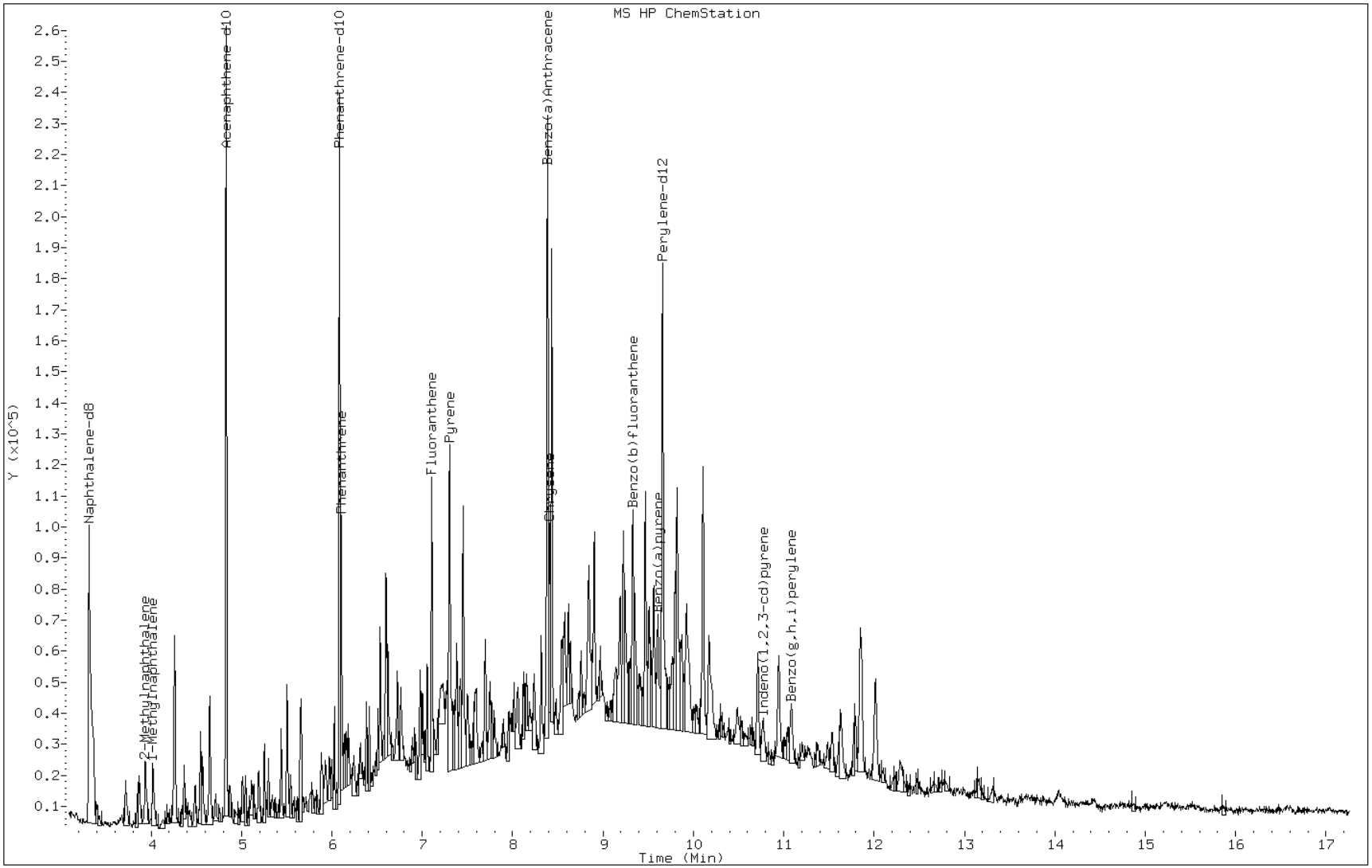
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB



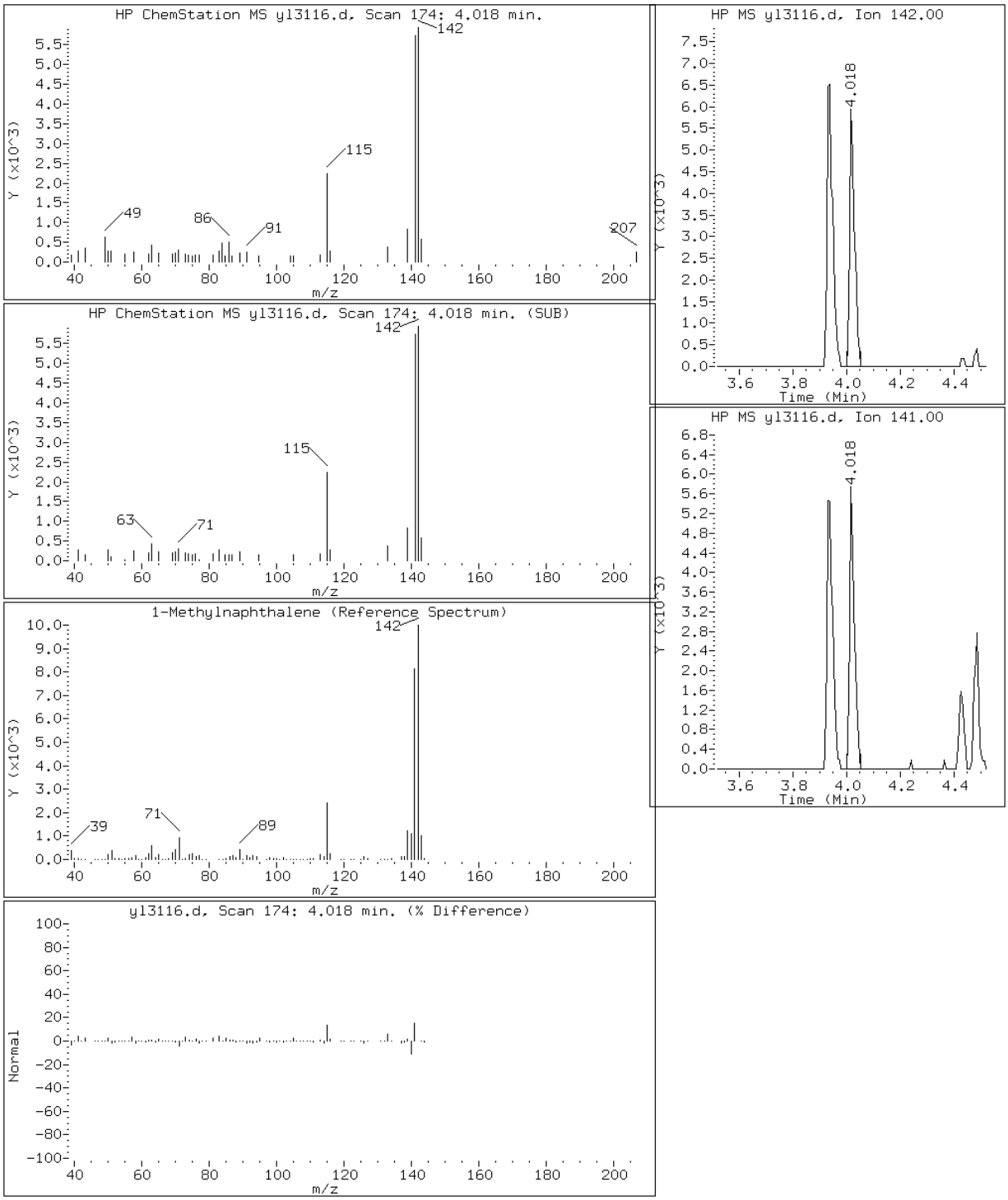
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

4 1-Methylnaphthalene



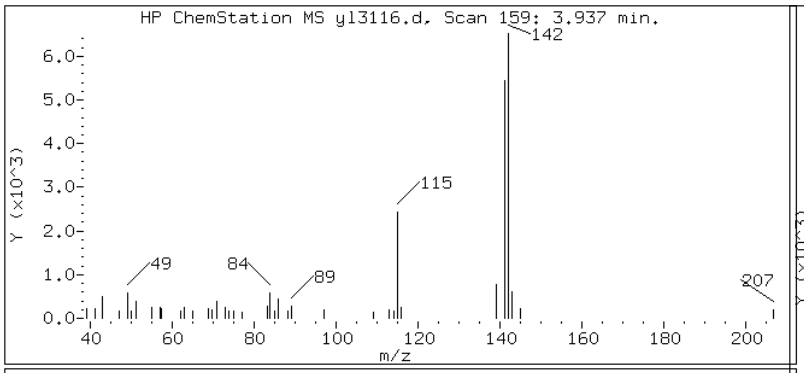
Data File: yl3116.d

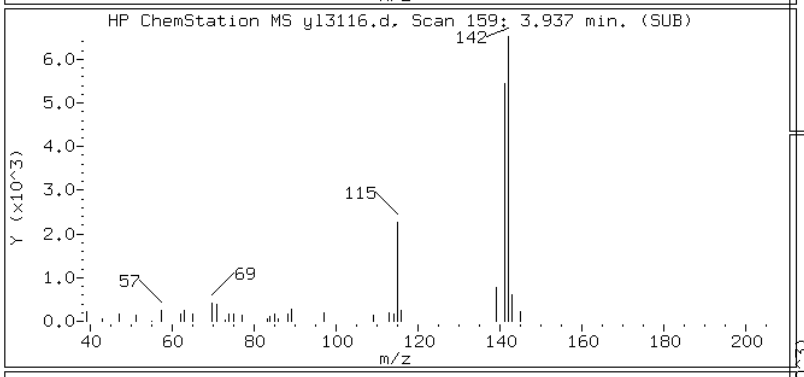
Date: 31-DEC-2012 18:05

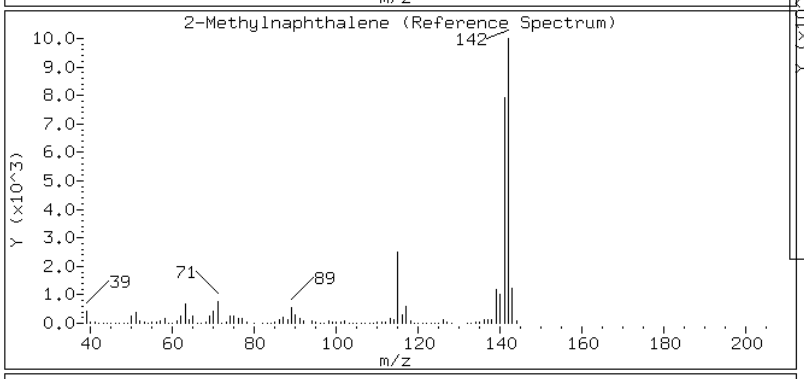
Client ID: Instrument: MSY5975.i

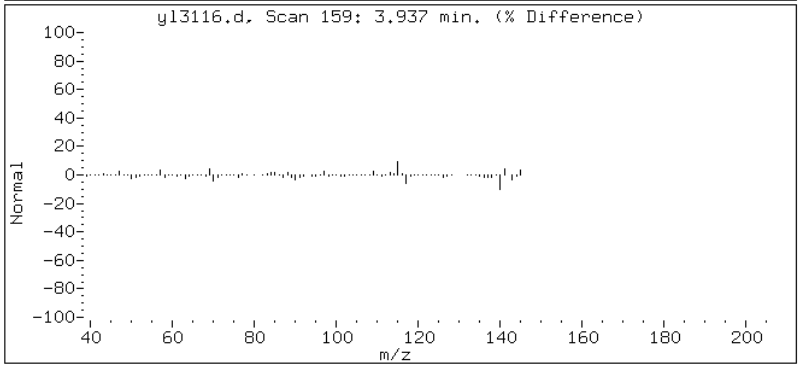
Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

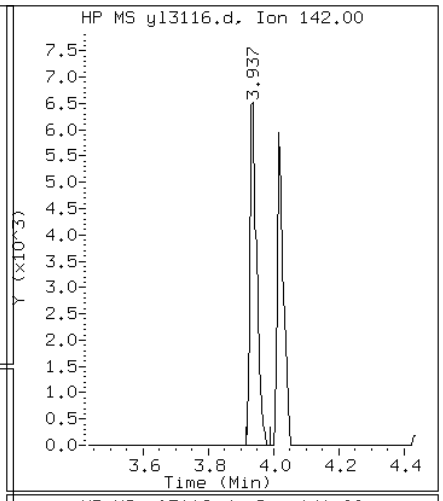
3 2-Methylnaphthalene

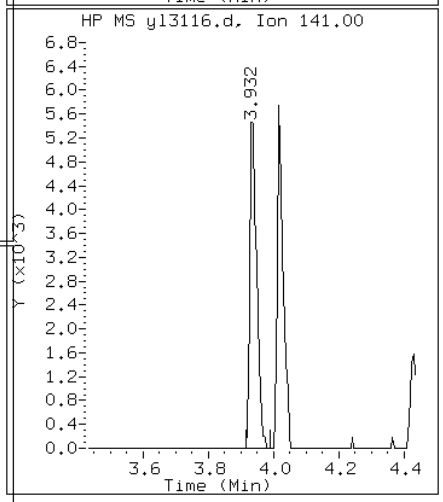












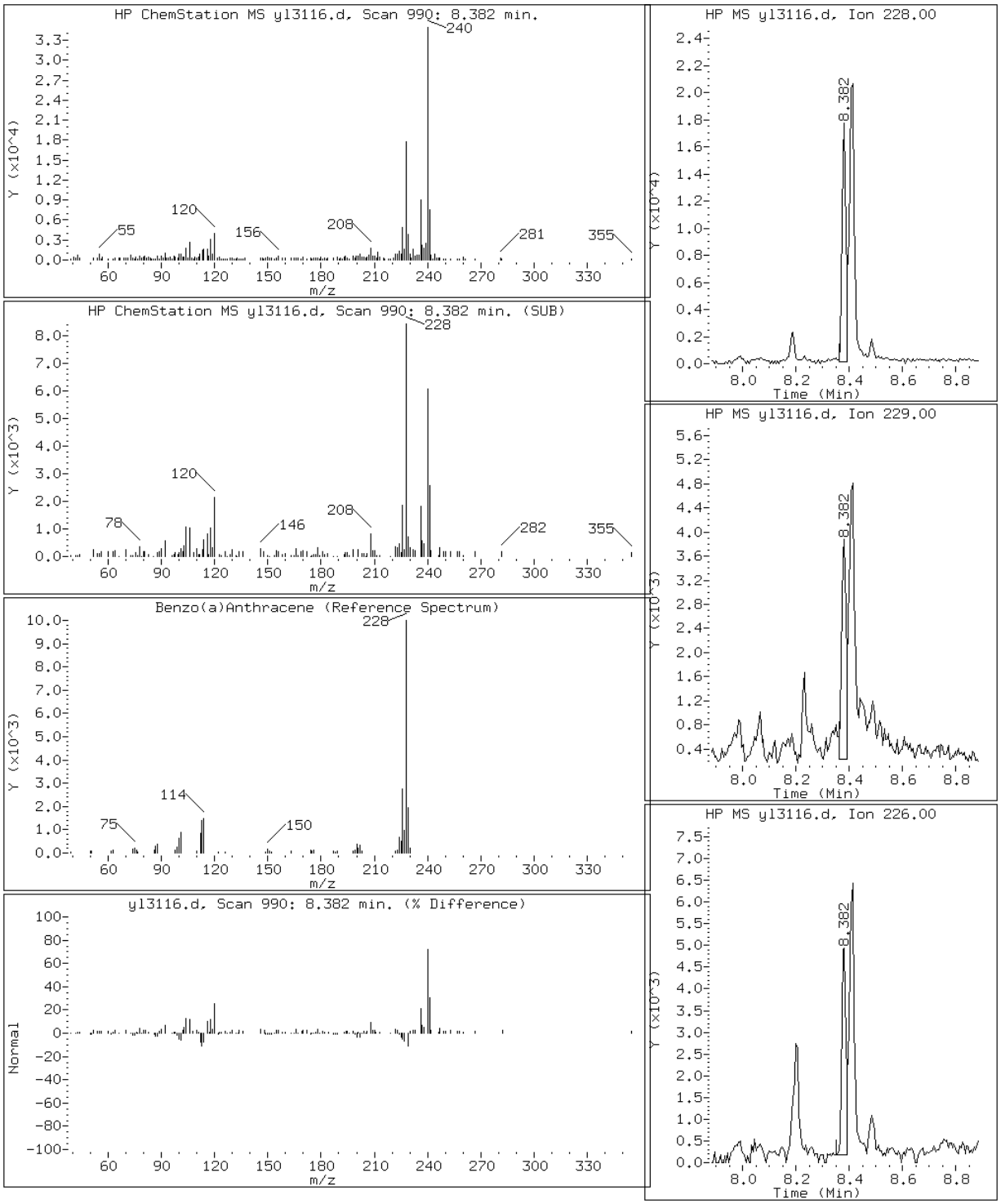
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

16 Benzo(a)Anthracene



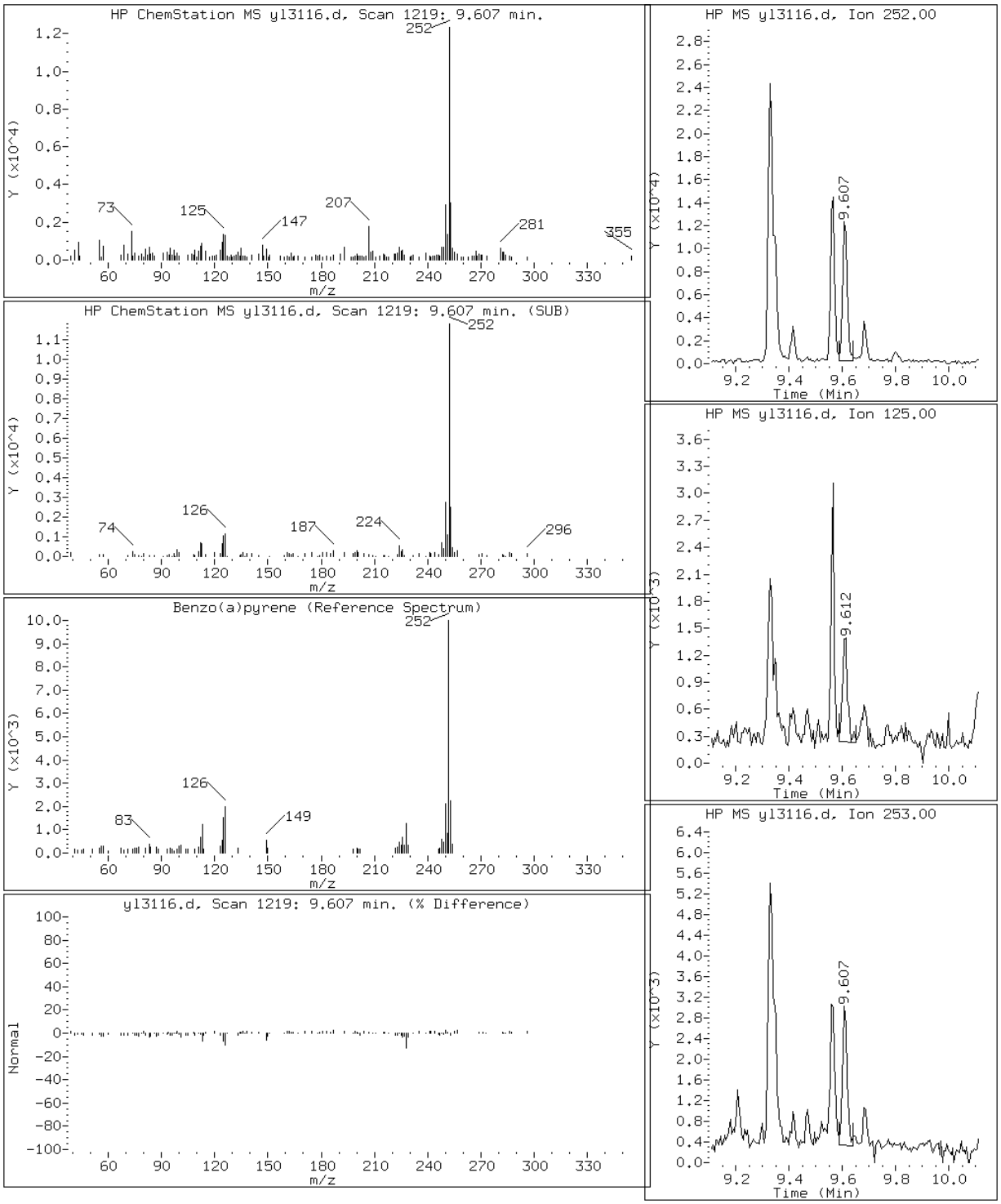
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

21 Benzo(a)pyrene



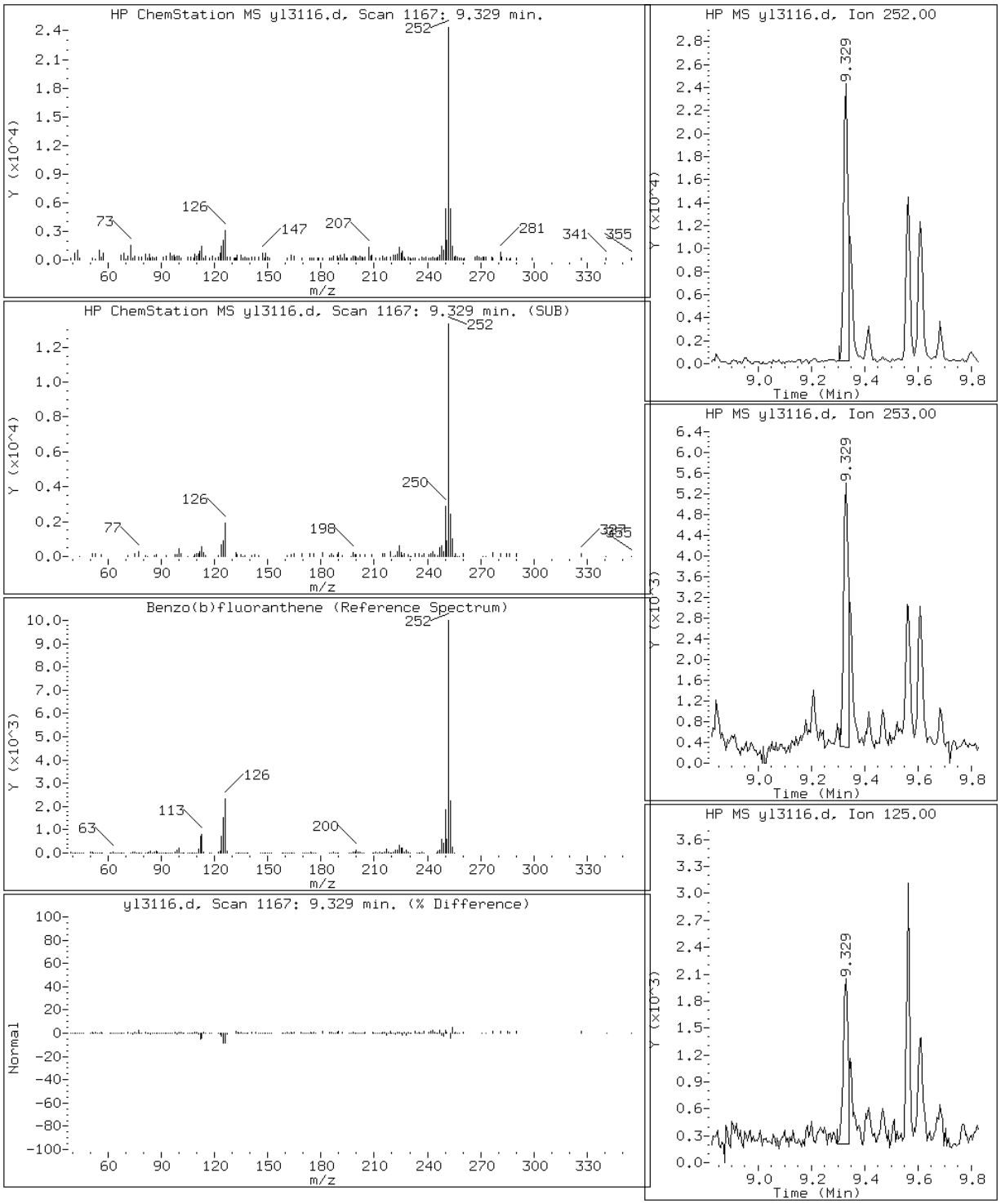
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

19 Benzo(b)fluoranthene



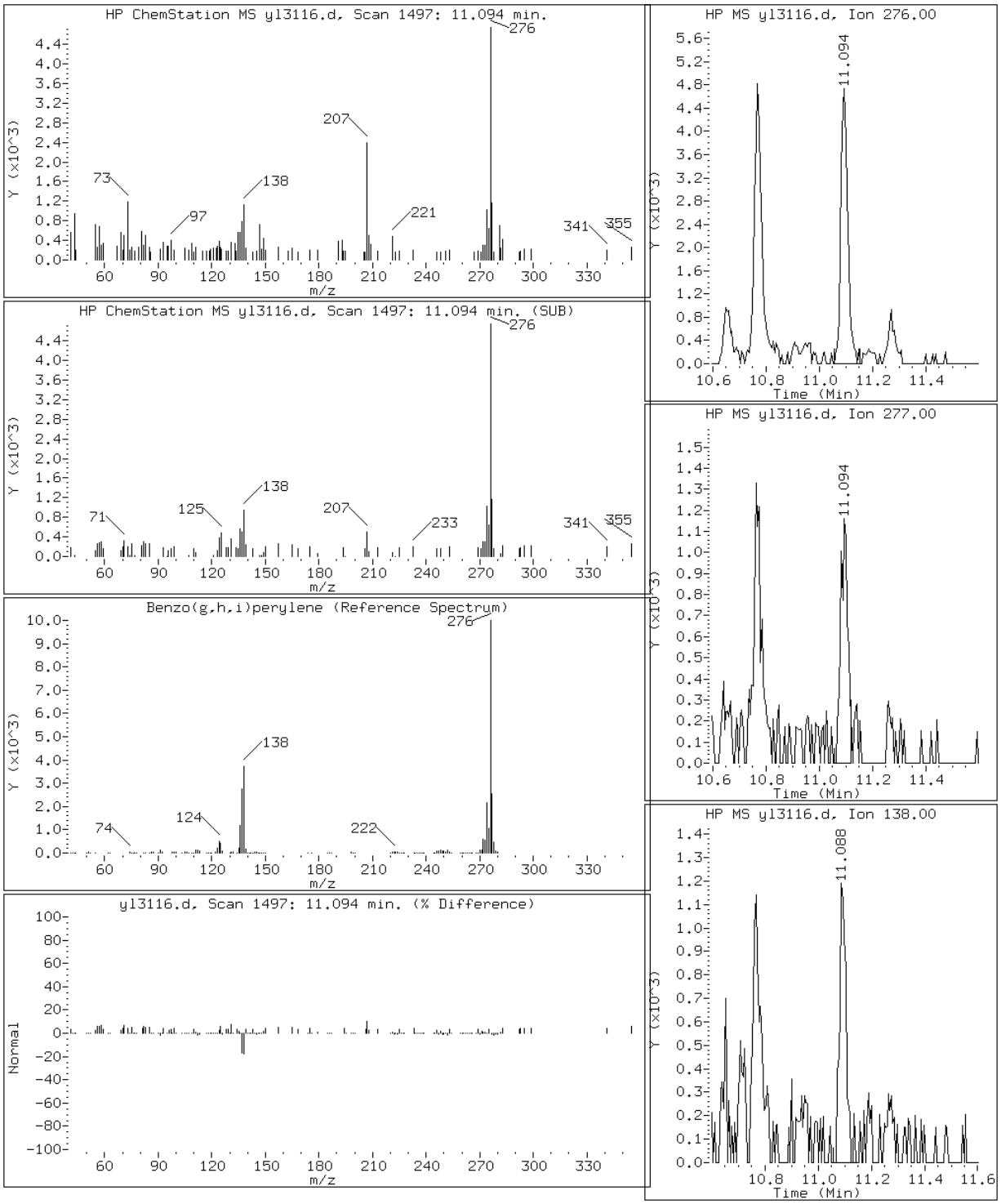
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

24 Benzo(g,h,i)perylene



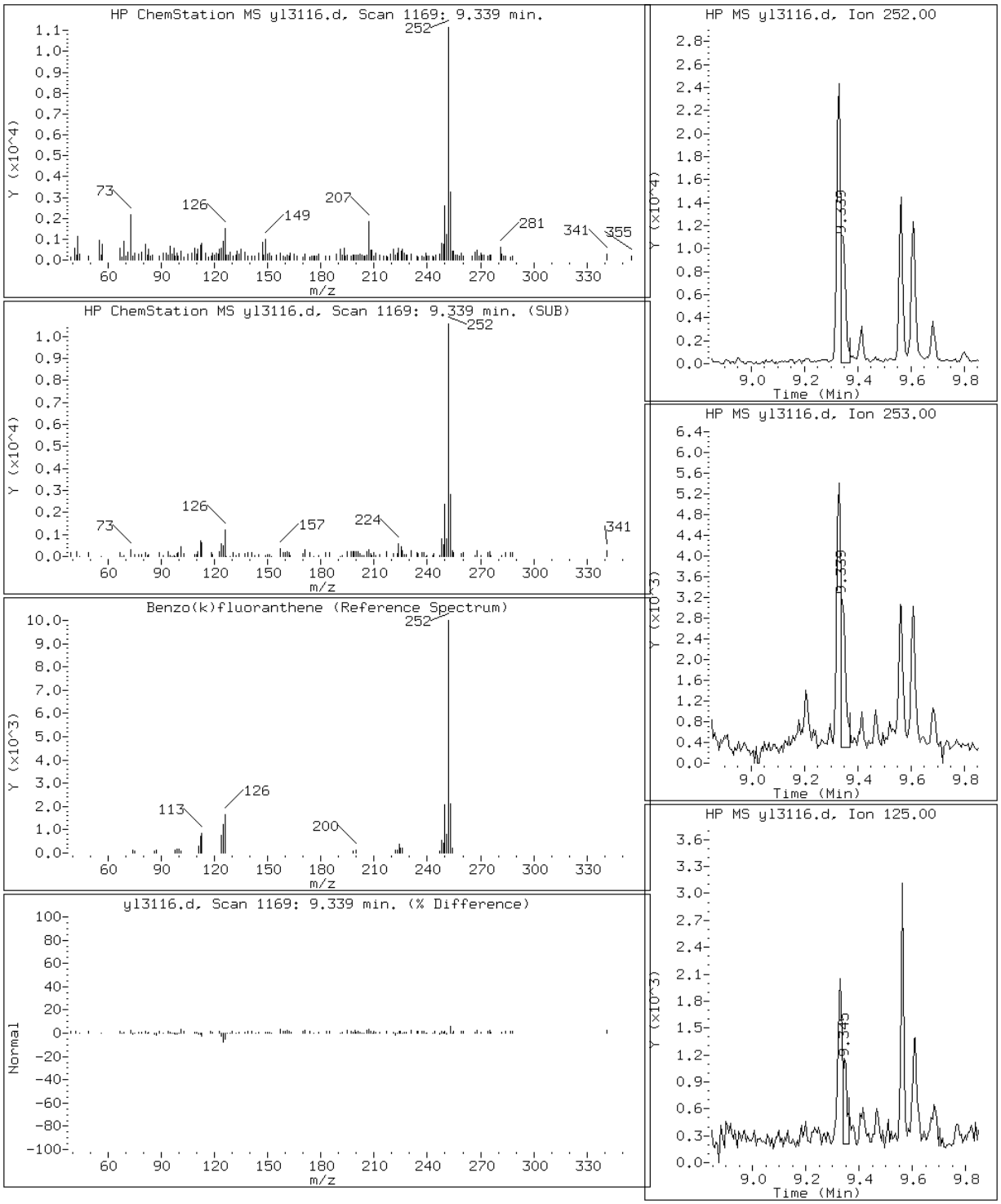
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

20 Benzo(k)fluoranthene



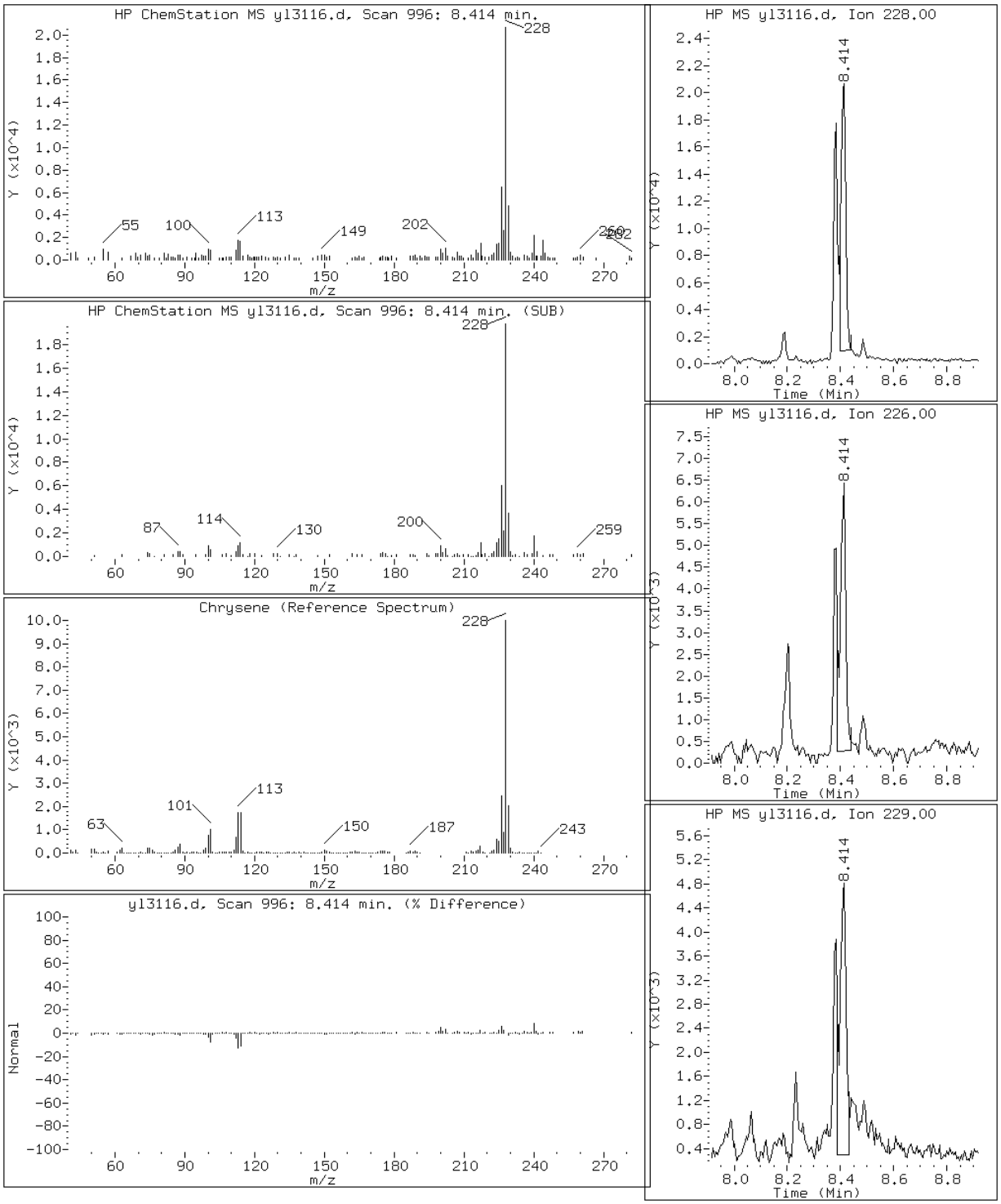
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

17 Chrysene



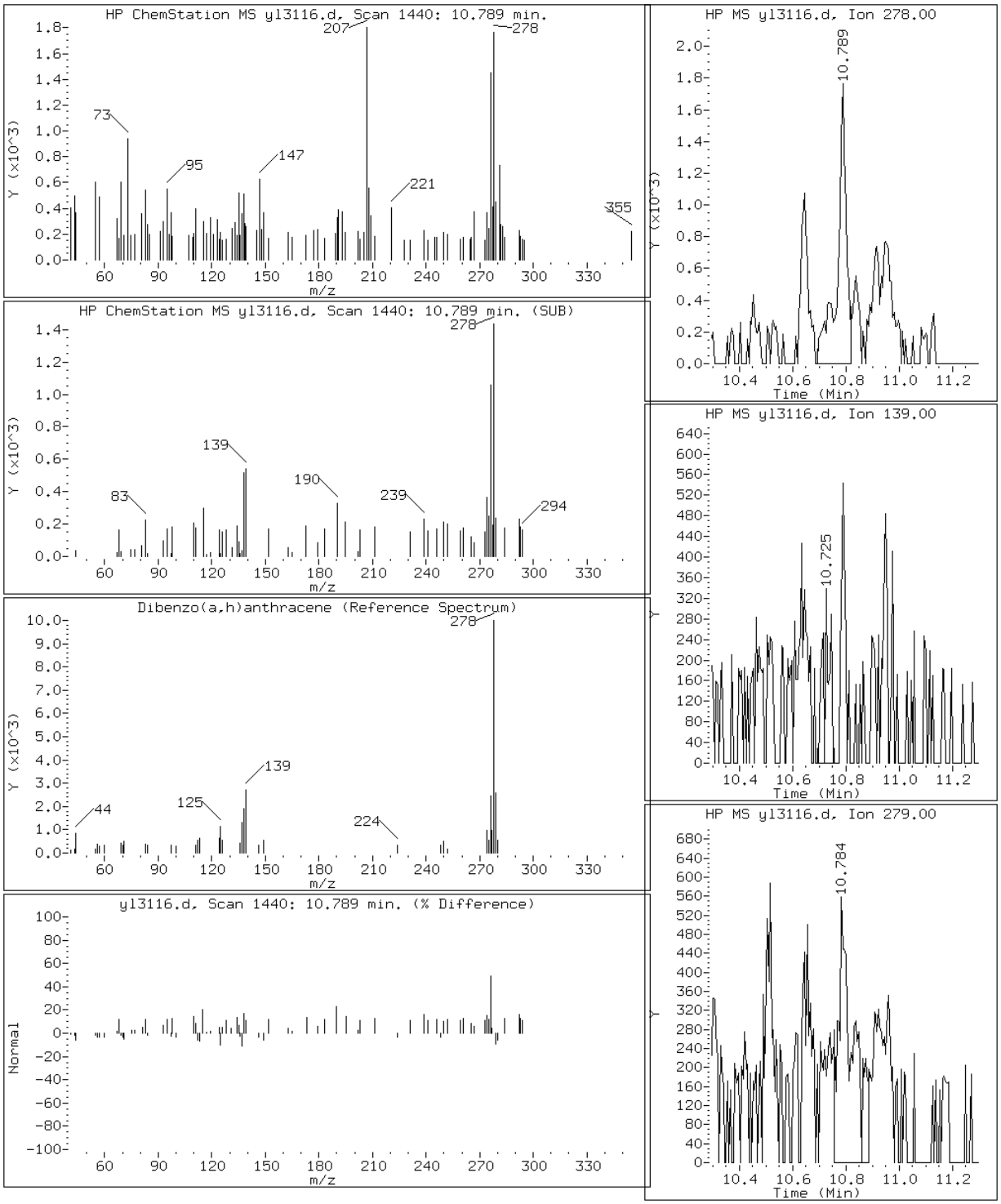
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

23 Dibenzo(a,h)anthracene



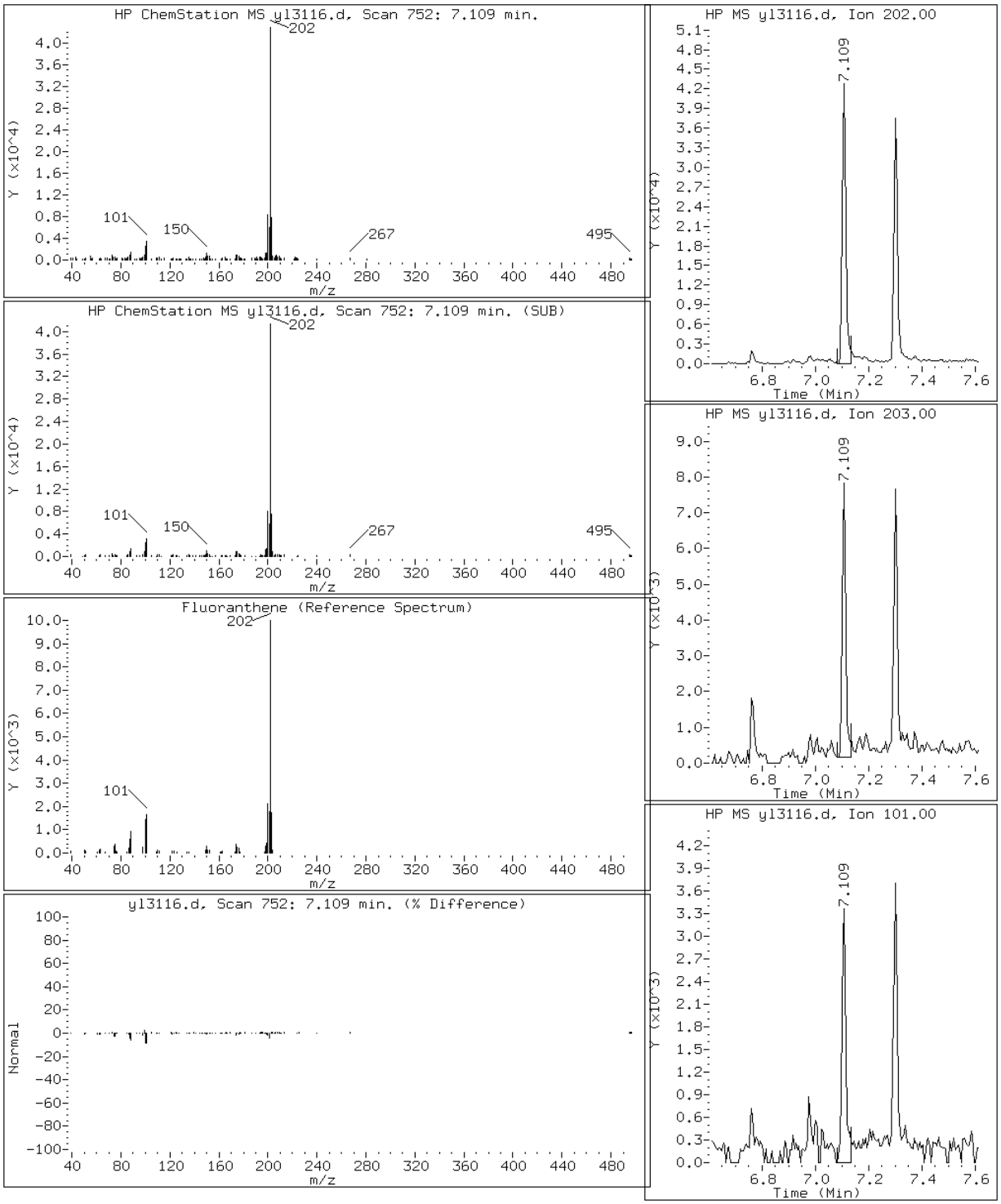
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

12 Fluoranthene



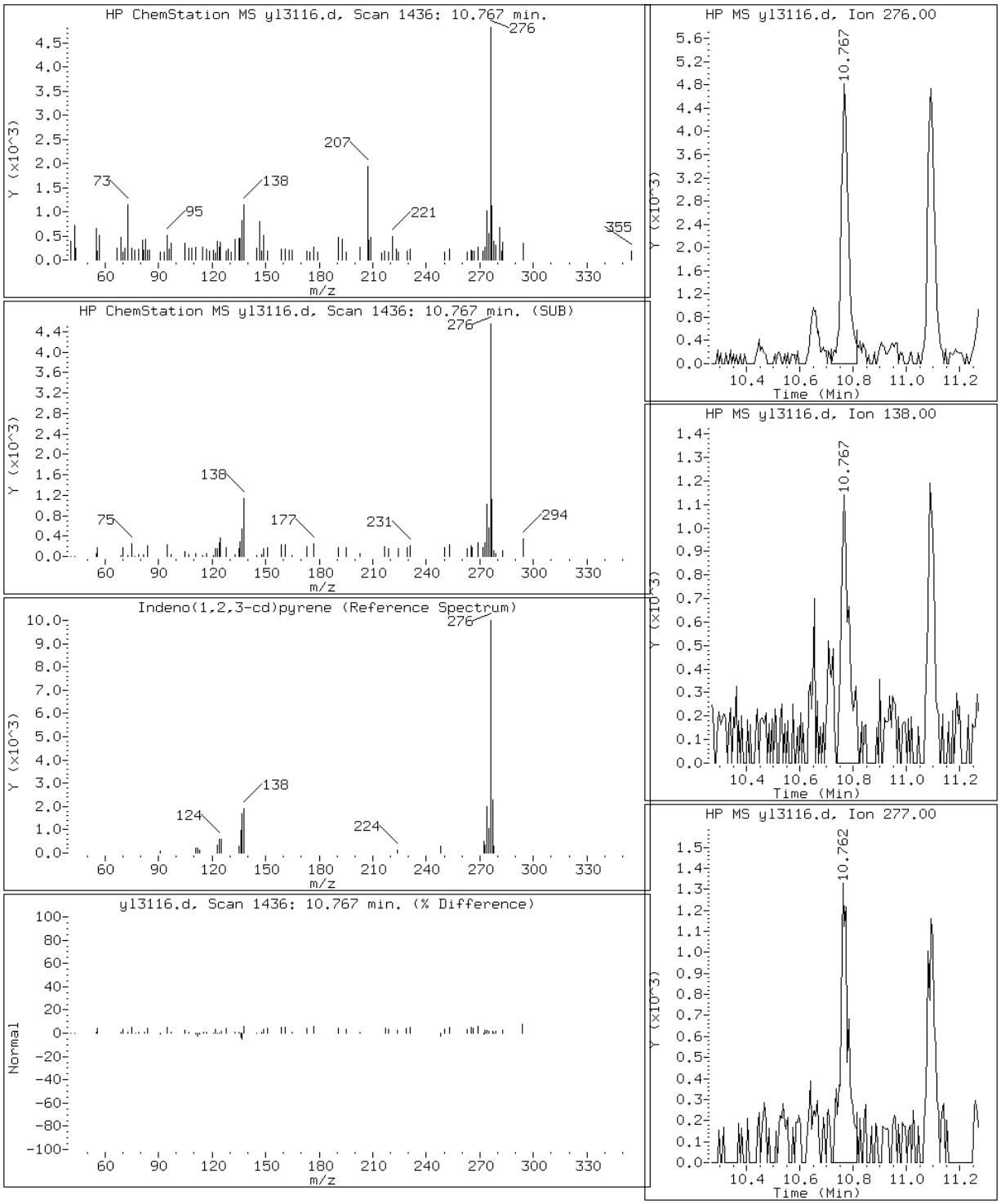
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

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



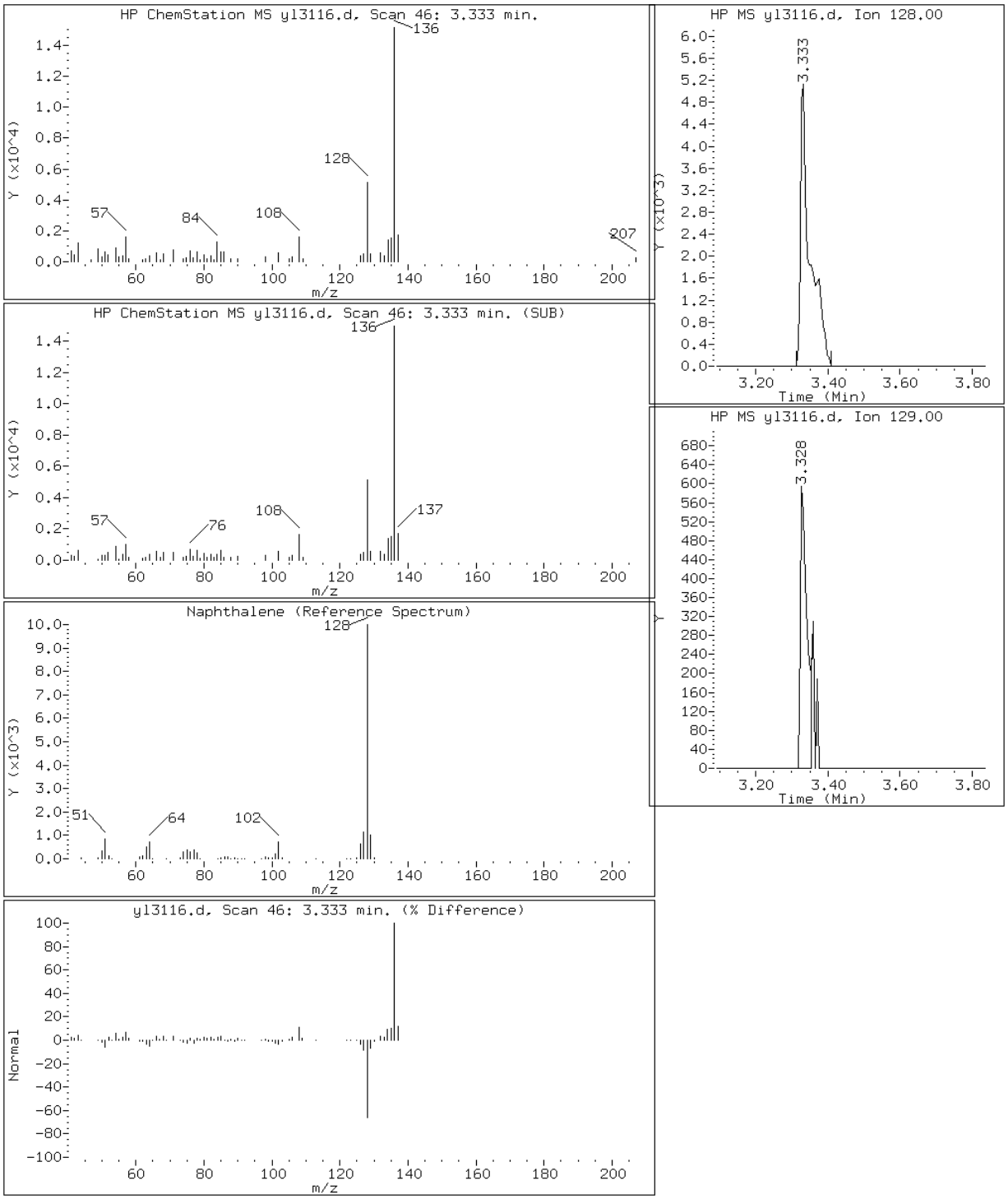
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

2 Naphthalene



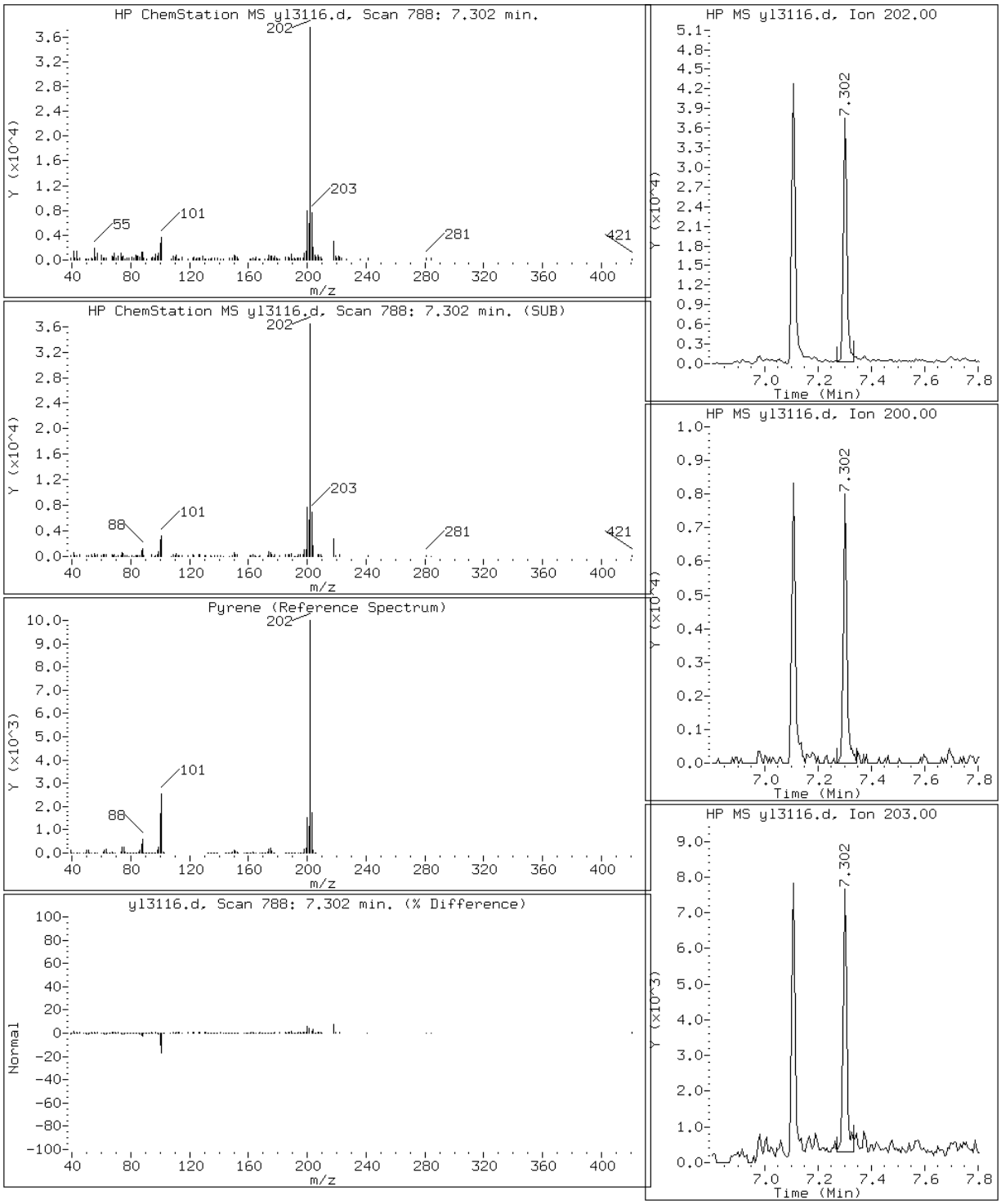
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

14 Pyrene



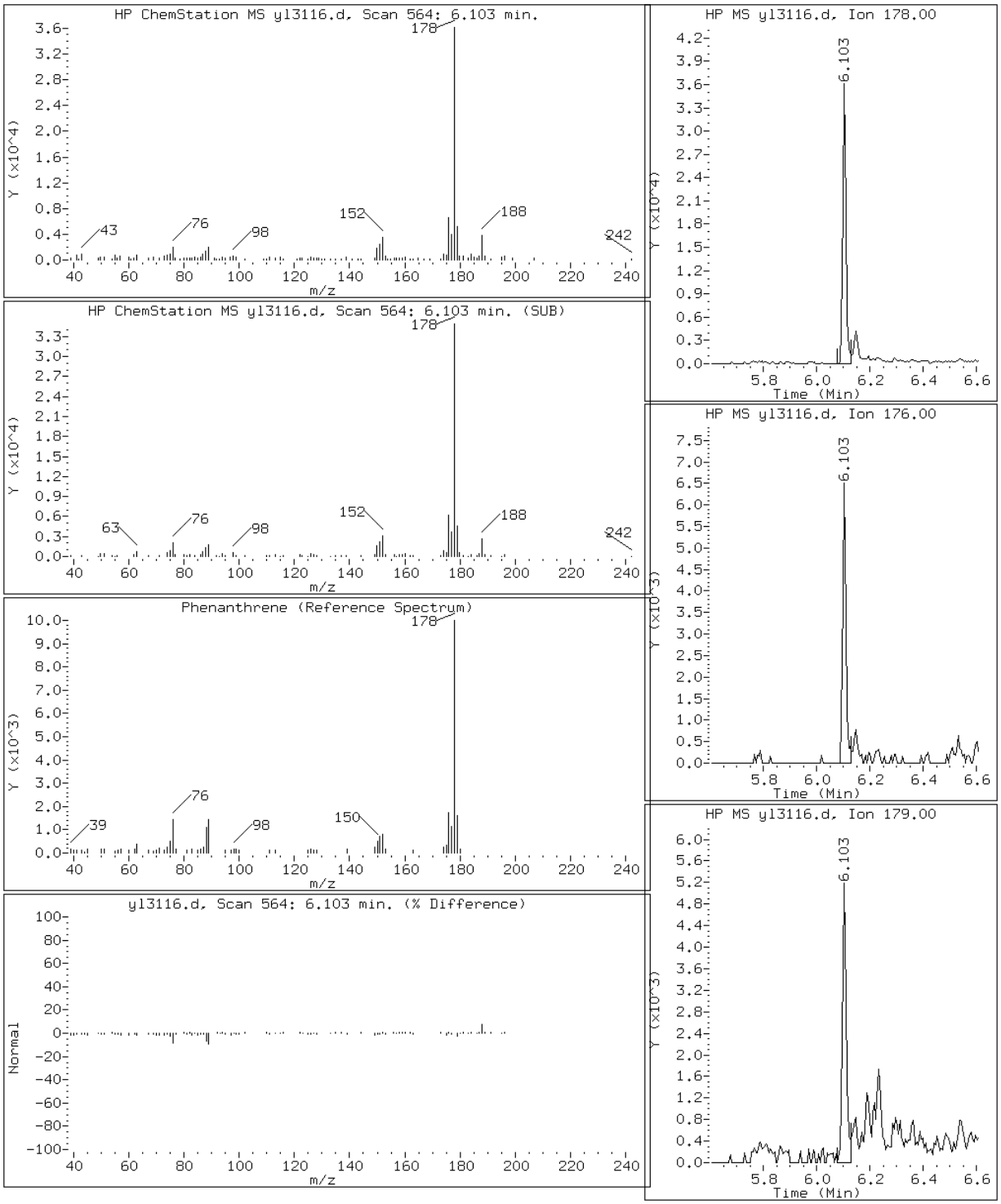
Data File: yl3116.d

Date: 31-DEC-2012 18:05

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-24-C DL=10 Operator: VHB

10 Phenanthrene



Manual Integration Report

Data File: yl3116.d
Inj. Date and Time: 31-DEC-2012 18:05
Instrument ID: MSY5975.i
Client ID:
Compound: 19 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 01/01/2013

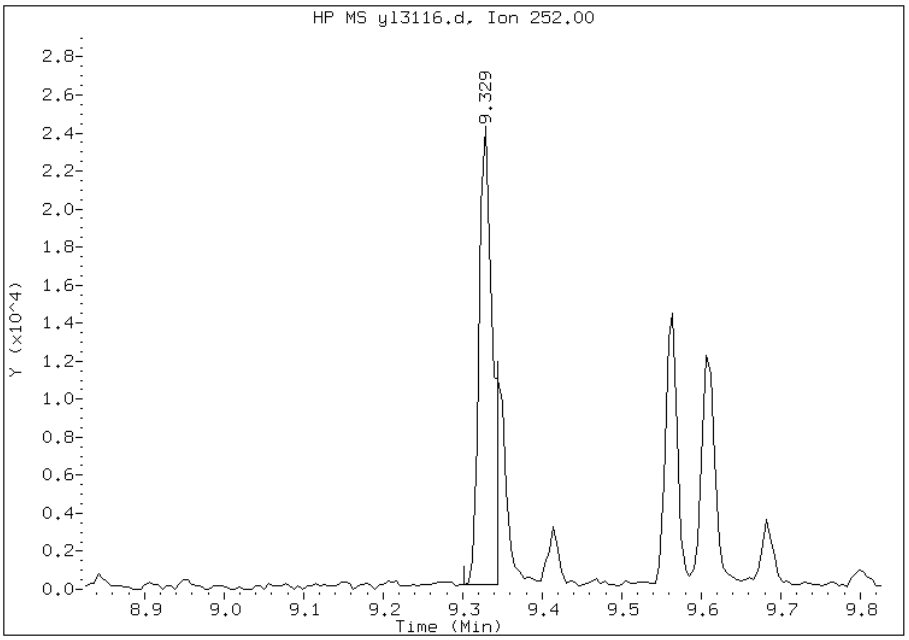
Processing Integration Results

RT: 9.33

Response: 29771

Amount: 1

Conc: 223



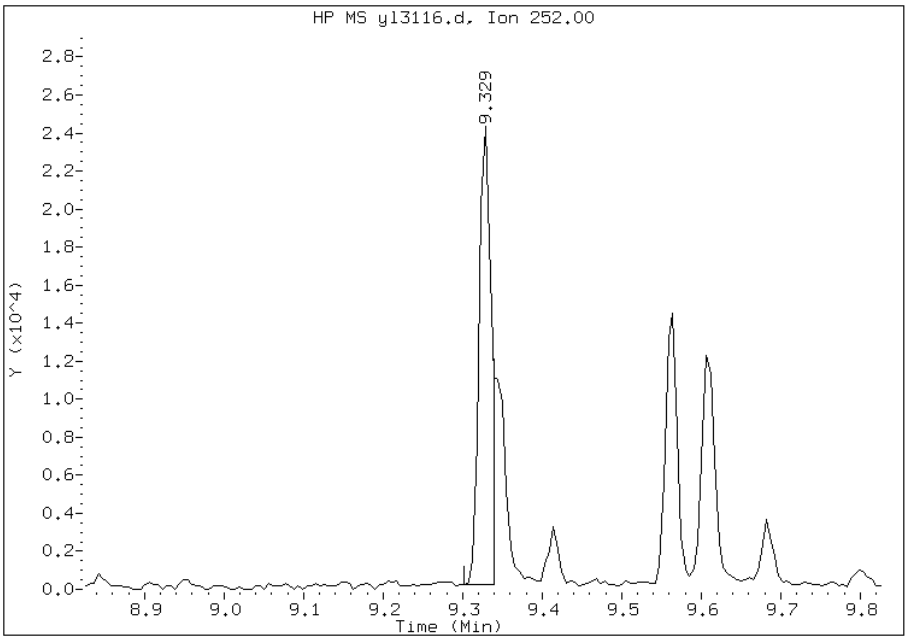
Manual Integration Results

RT: 9.33

Response: 26315

Amount: 1

Conc: 197



Manually Integrated By: chemist
Manual Integration Reason:

Manual Integration Report

Data File: yl3116.d
Inj. Date and Time: 31-DEC-2012 18:05
Instrument ID: MSY5975.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/01/2013

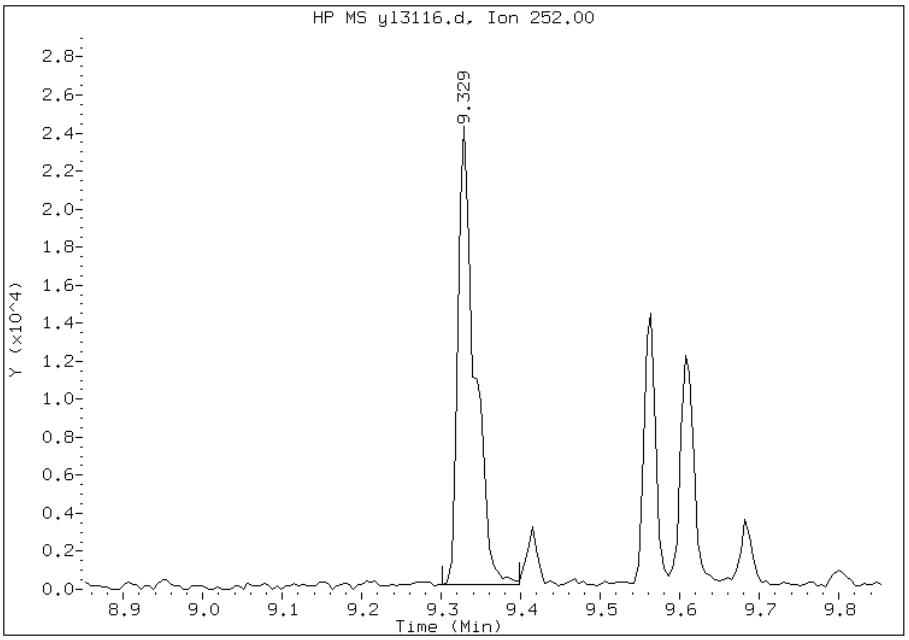
Processing Integration Results

RT: 9.33

Response: 36114

Amount: 1

Conc: 265



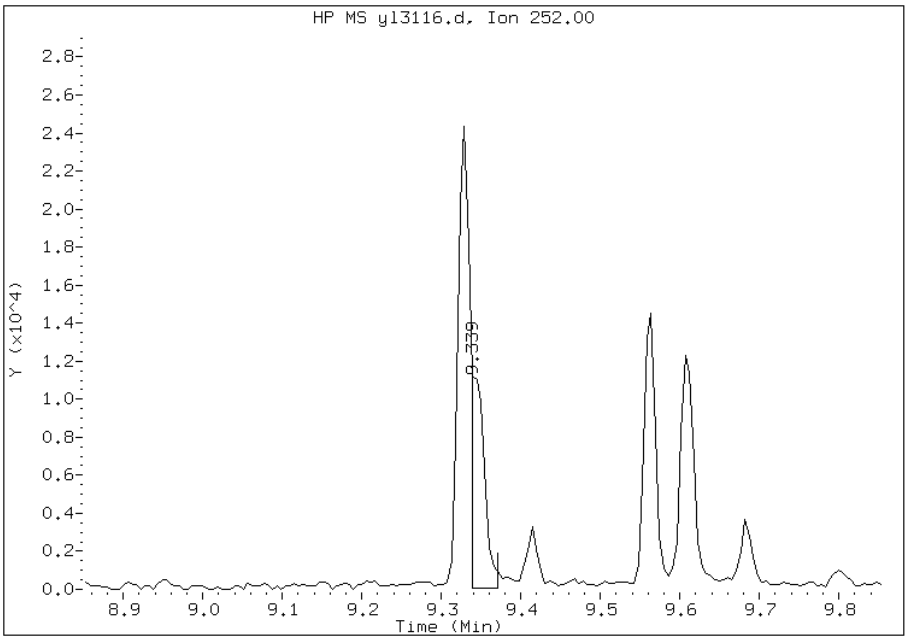
Manual Integration Results

RT: 9.34

Response: 13137

Amount: 0

Conc: 96



Manually Integrated By: chemist
Manual Integration Reason:

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-86021-2

SDG No.: 68086021-2

Client Sample ID: CV0294A-CS | Lab Sample ID: 680-86021-25

Matrix: Solid | Lab File ID: yl3119.d

Analysis Method: 8270C_LL_PAH | Date Collected: 12/18/2012 14:10

Extract. Method: 3546 | Date Extracted: 12/28/2012 19:41

Sample wt/vol: 30.33(g) | Date Analyzed: 12/31/2012 19:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 33.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 261526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	100	U	100	46
91-57-6	2-Methylnaphthalene	100	U	100	49
83-32-9	Acenaphthene	100	U	100	49
208-96-8	Acenaphthylene	100	U	100	49
120-12-7	Anthracene	100	U	100	49
56-55-3	Benzo[a]anthracene	110		100	49
50-32-8	Benzo[a]pyrene	110		100	18
205-99-2	Benzo[b]fluoranthene	170		100	49
191-24-2	Benzo[g,h,i]perylene	79	J	100	49
207-08-9	Benzo[k]fluoranthene	92	J	100	30
218-01-9	Chrysene	170		100	49
53-70-3	Dibenz(a,h)anthracene	100	U	100	49
206-44-0	Fluoranthene	200		100	49
86-73-7	Fluorene	100	U	100	49
193-39-5	Indeno[1,2,3-cd]pyrene	62	J	100	49
91-20-3	Naphthalene	100	U	100	49
129-00-0	Pyrene	180		100	49
85-01-8	Phenanthrene	120		100	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3119.d
Lab Smp Id: 680-86021-A-25-G DL
Inj Date : 31-DEC-2012 19:14
Operator : VHB Inst ID: MSY5975.i
Smp Info : 680-86021-A-25-G DL=10
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 17
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

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

Name	Value	Description
DF	10.00000	Dilution Factor
Vi	1.00000	Injection Volume
Vt	1.00000	Final Volume
Ws	30.00000	Weight Extracted
M	0.00000	% Moisture
A	1000.00000	uL to mL conversion
B	1000.00000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.00000	ug to mg conversion(value = 1 if no conv
GPC	1.00000	GPC FACTOR

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.311	3.312	(1.000)	78194	2.00000	
* 5 Acenaphthene-d10	164	4.830	4.831	(1.000)	45856	2.00000	
* 9 Phenanthrene-d10	188	6.082	6.082	(1.000)	68695	2.00000	
10 Phenanthrene	178	6.103	6.104	(1.004)	10599	0.25047	83.48
12 Fluoranthene	202	7.109	7.109	(1.169)	19465	0.39458	131.52
14 Pyrene	202	7.302	7.302	(0.871)	18334	0.37159	123.86
16 Benzo(a)Anthracene	228	8.382	8.382	(0.999)	8233	0.21347	71.15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 13 Chrysene-d12	240	8.387	8.387	(1.000)	54361	2.00000	
17 Chrysene	228	8.414	8.414	(1.003)	11597	0.33764	112.54
19 Benzo(b)fluoranthene	252	9.329	9.323	(0.966)	11842	0.35051	116.83
20 Benzo(k)fluoranthene	252	9.350	9.350	(0.968)	6382	0.18522	61.73(aM)
21 Benzo(a)pyrene	252	9.612	9.607	(0.995)	6092	0.21862	72.87
* 18 Perylene-d12	264	9.660	9.660	(1.000)	46180	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.767	10.768	(1.284)	3702	0.12536	41.78(a)
24 Benzo(g,h,i)perylene	276	11.094	11.094	(1.148)	3840	0.15852	52.83(a)

QC Flag Legend

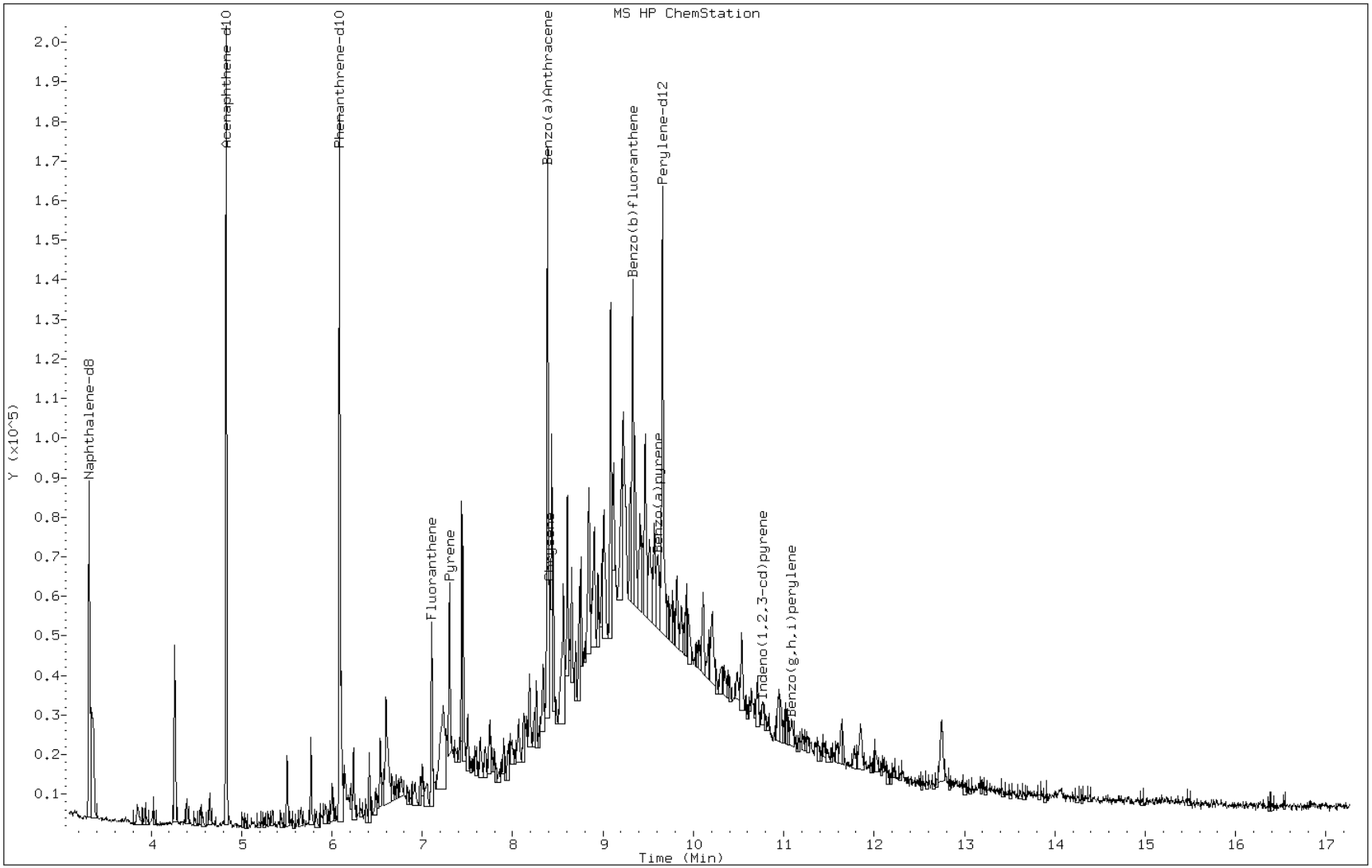
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB



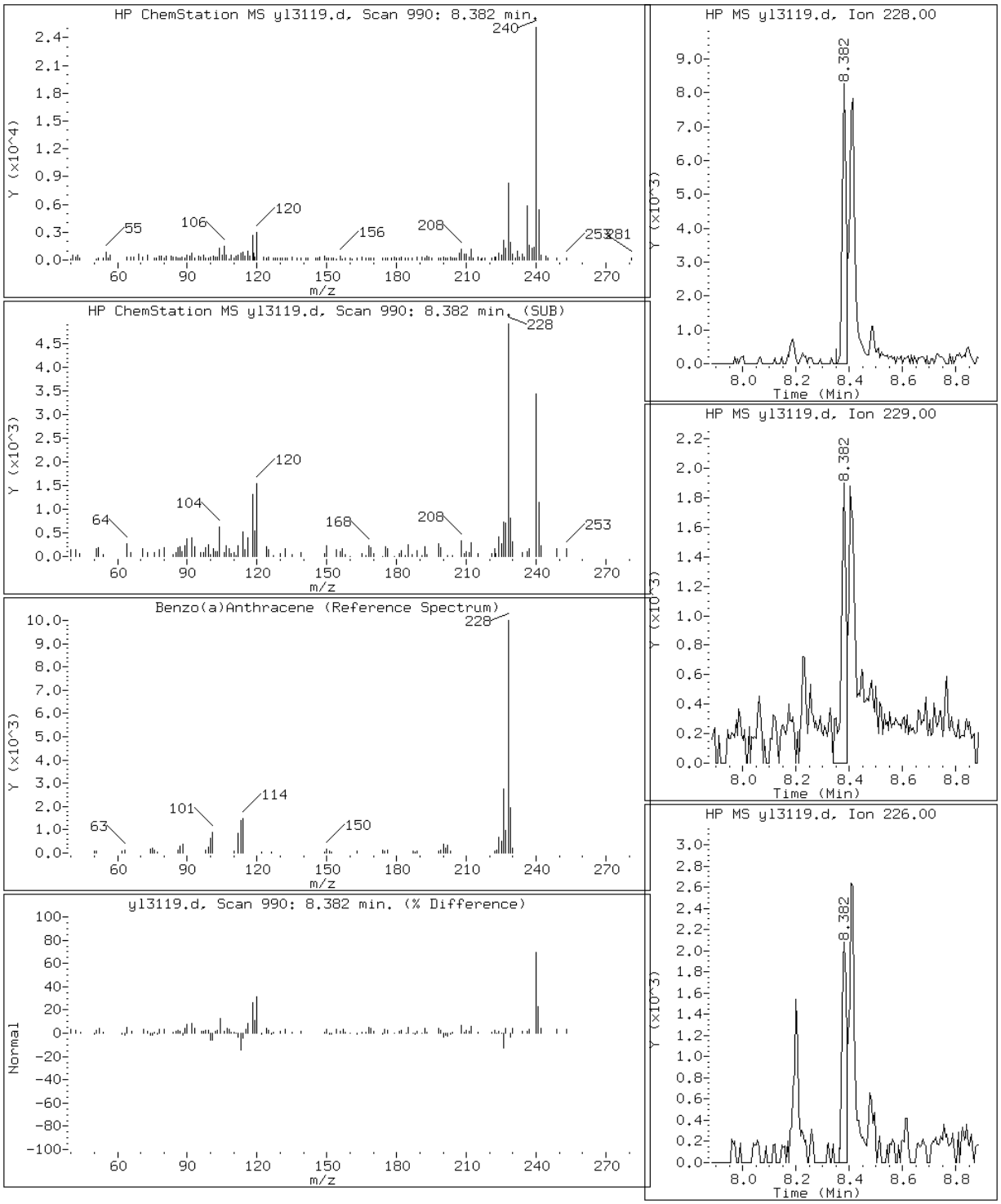
Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB

16 Benzo(a)Anthracene



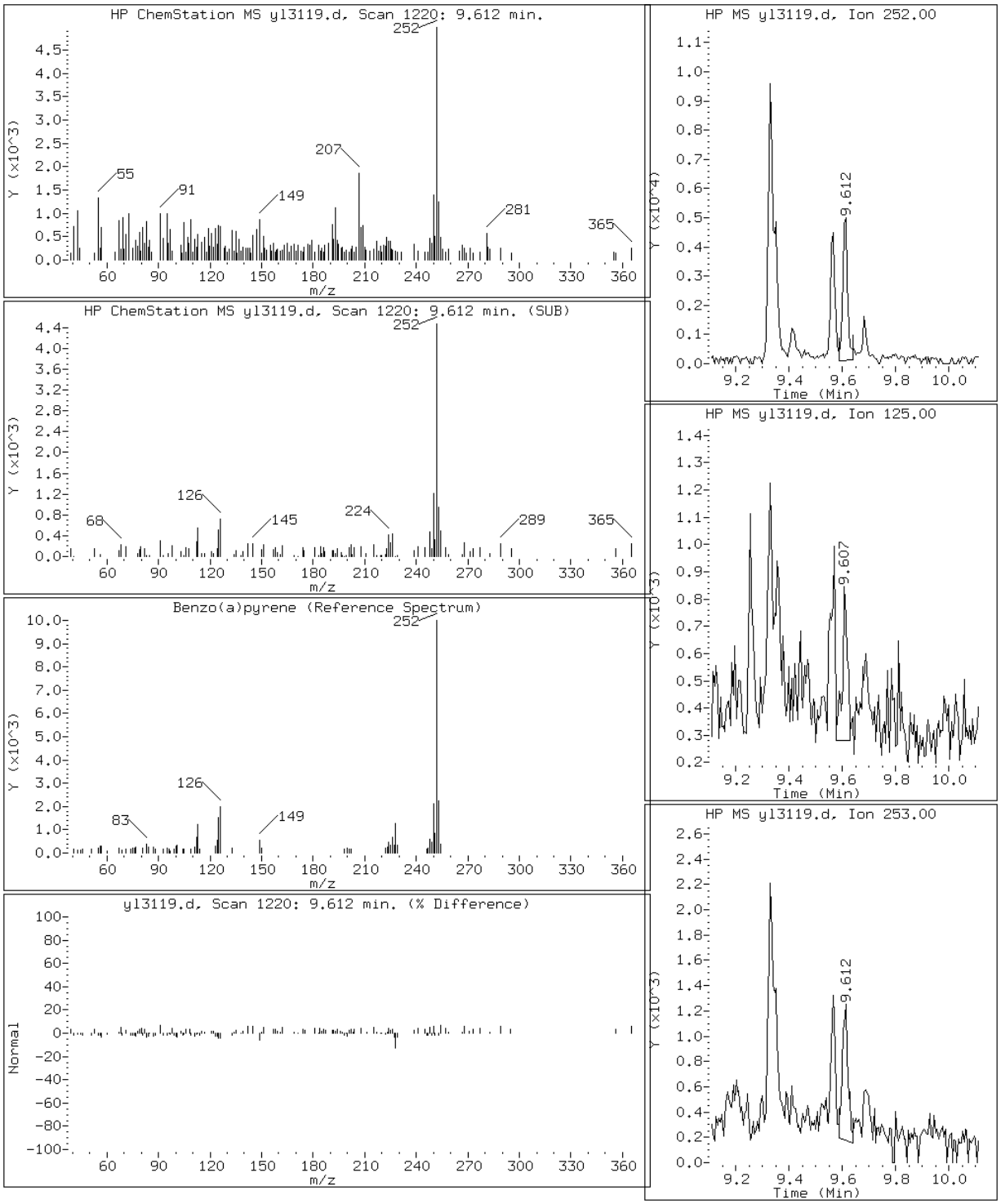
Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB

21 Benzo(a)pyrene



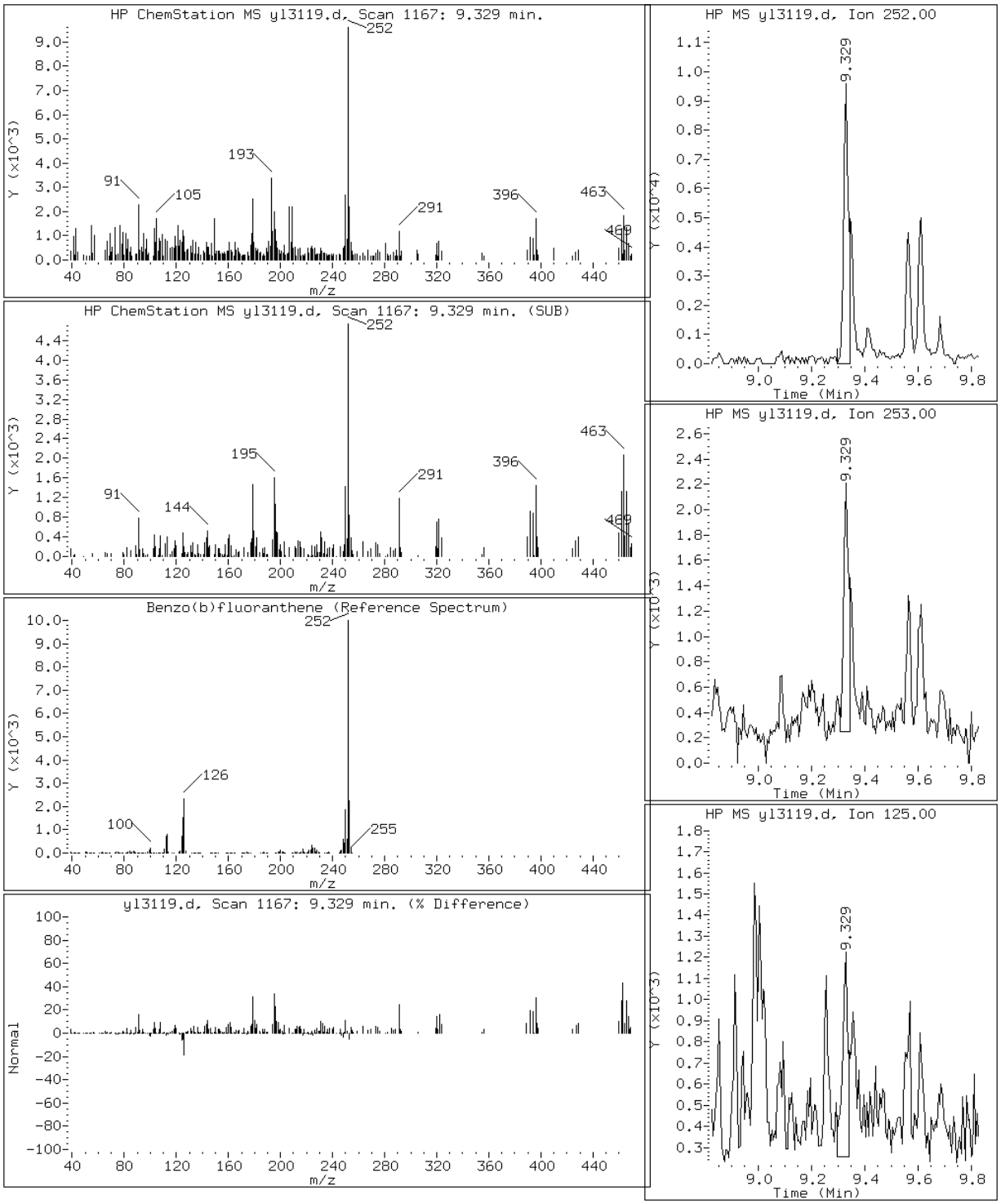
Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB

19 Benzo(b)fluoranthene



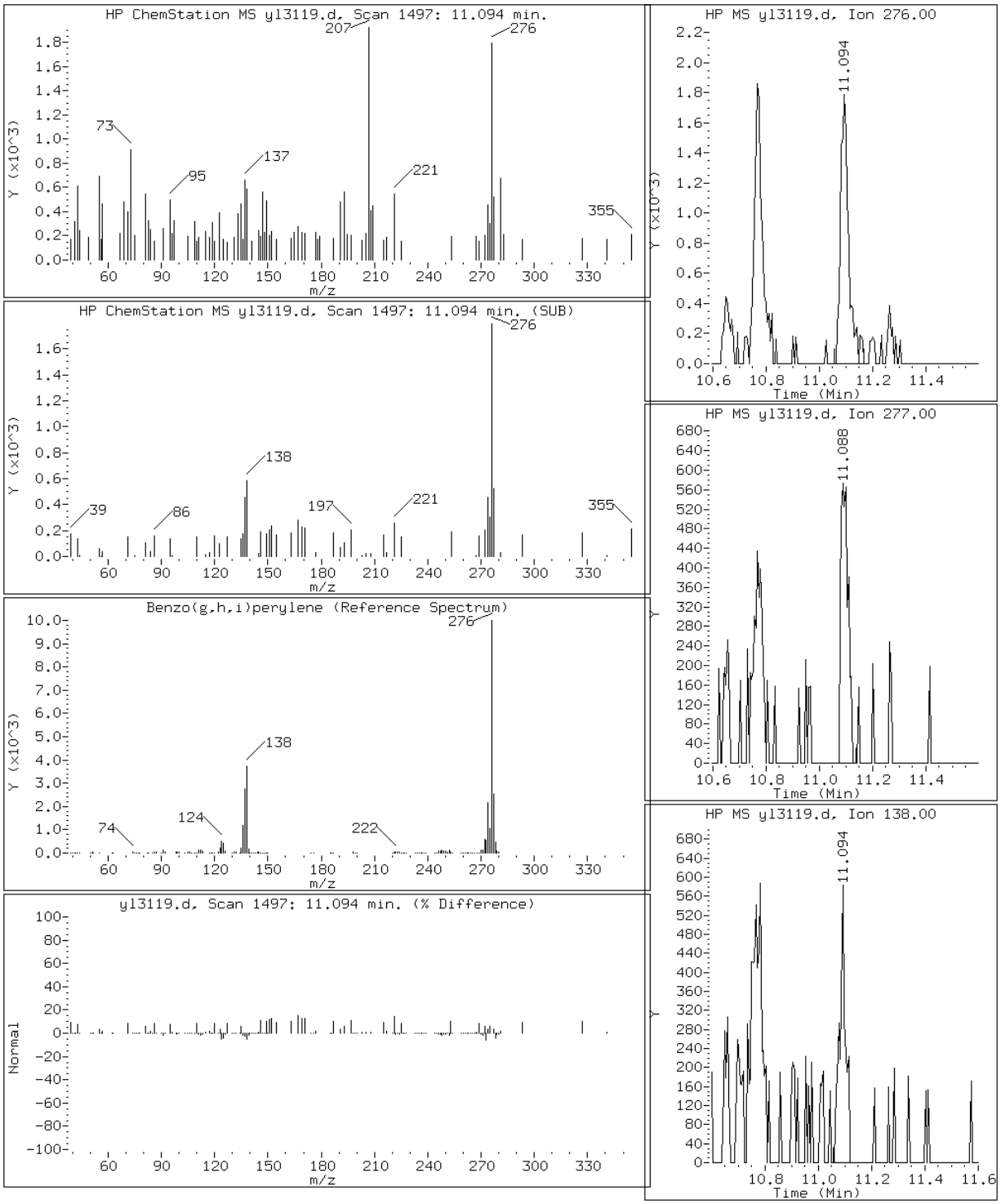
Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB

24 Benzo(g,h,i)perylene



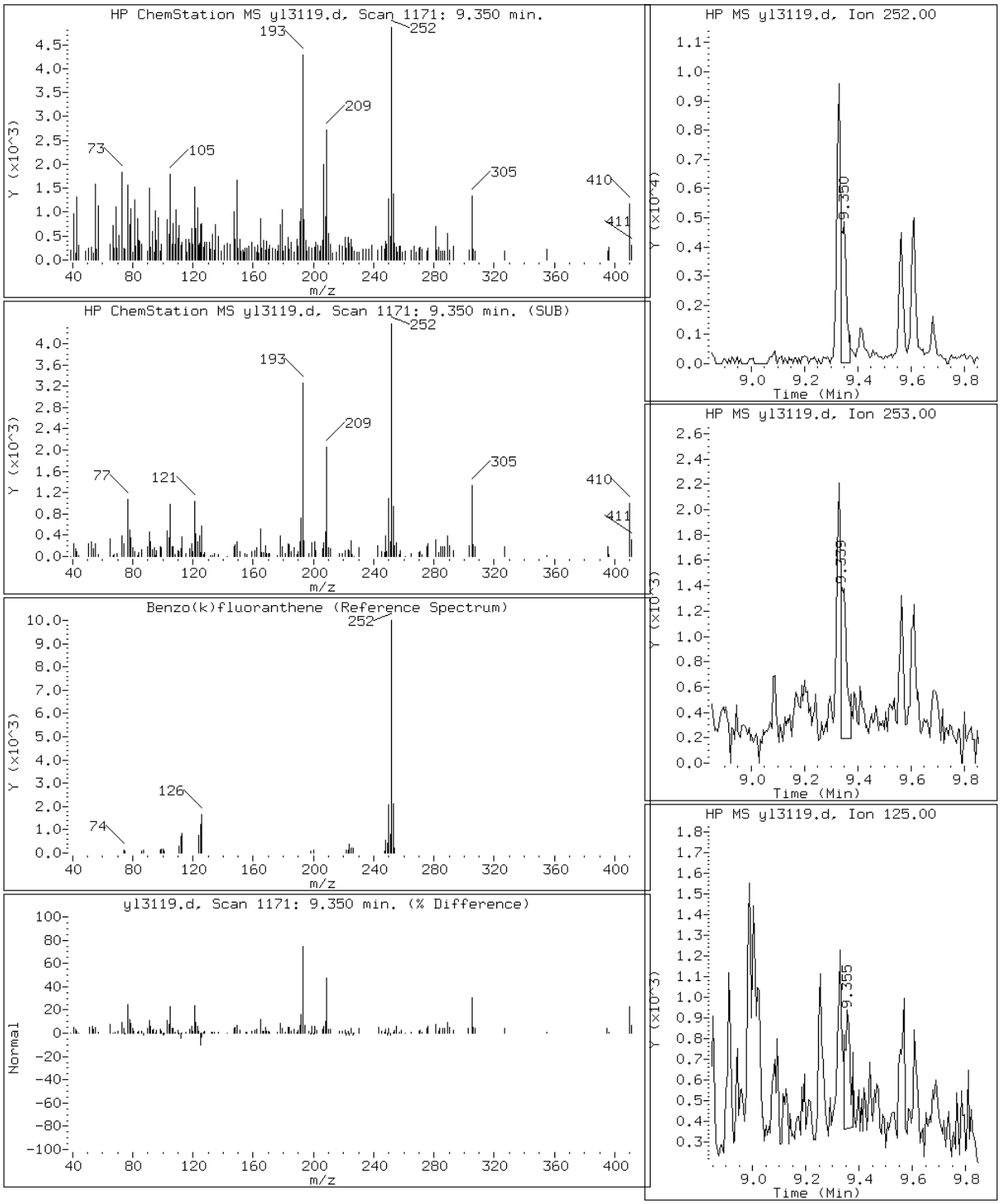
Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB

20 Benzo(k)fluoranthene



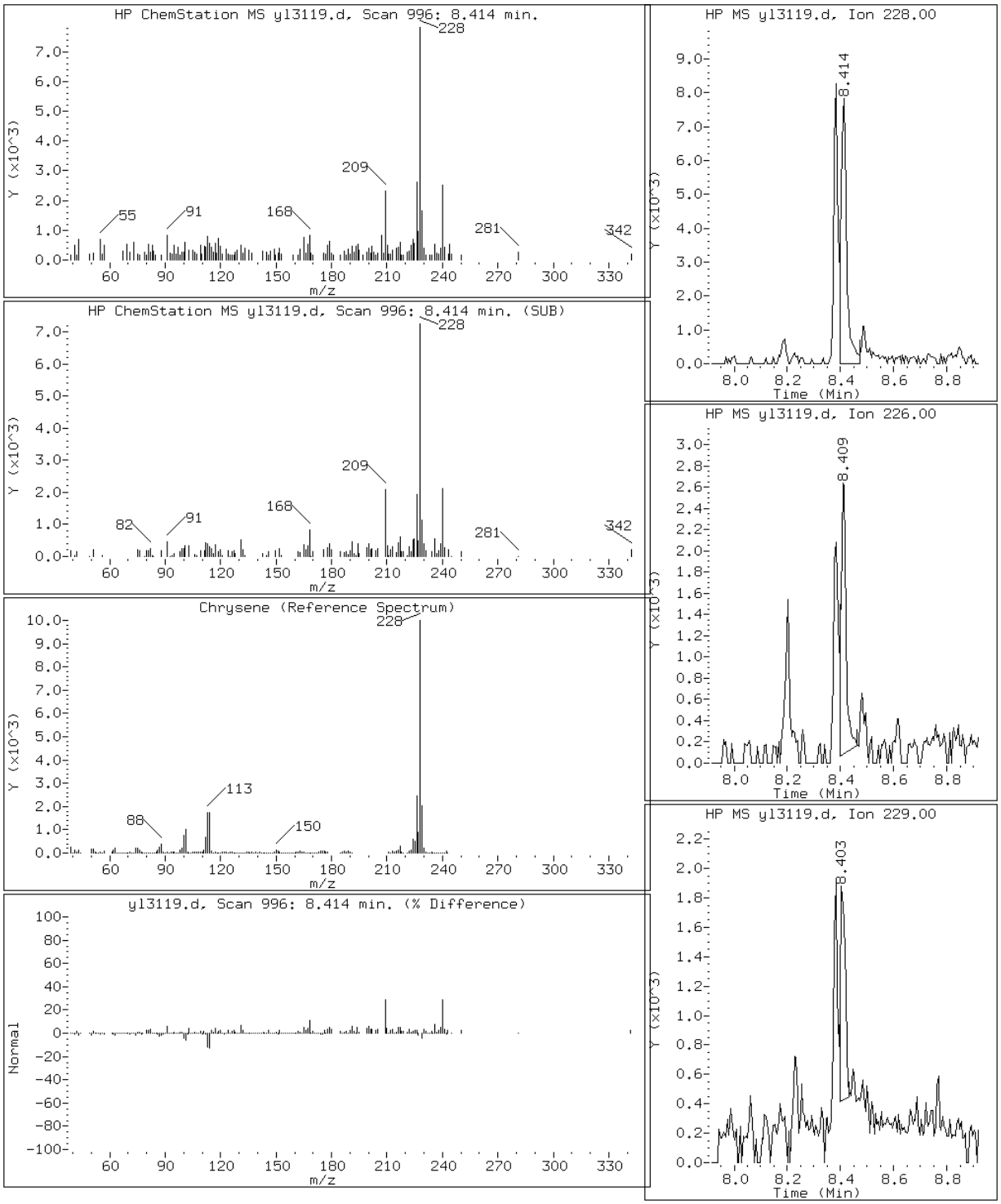
Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB

17 Chrysene



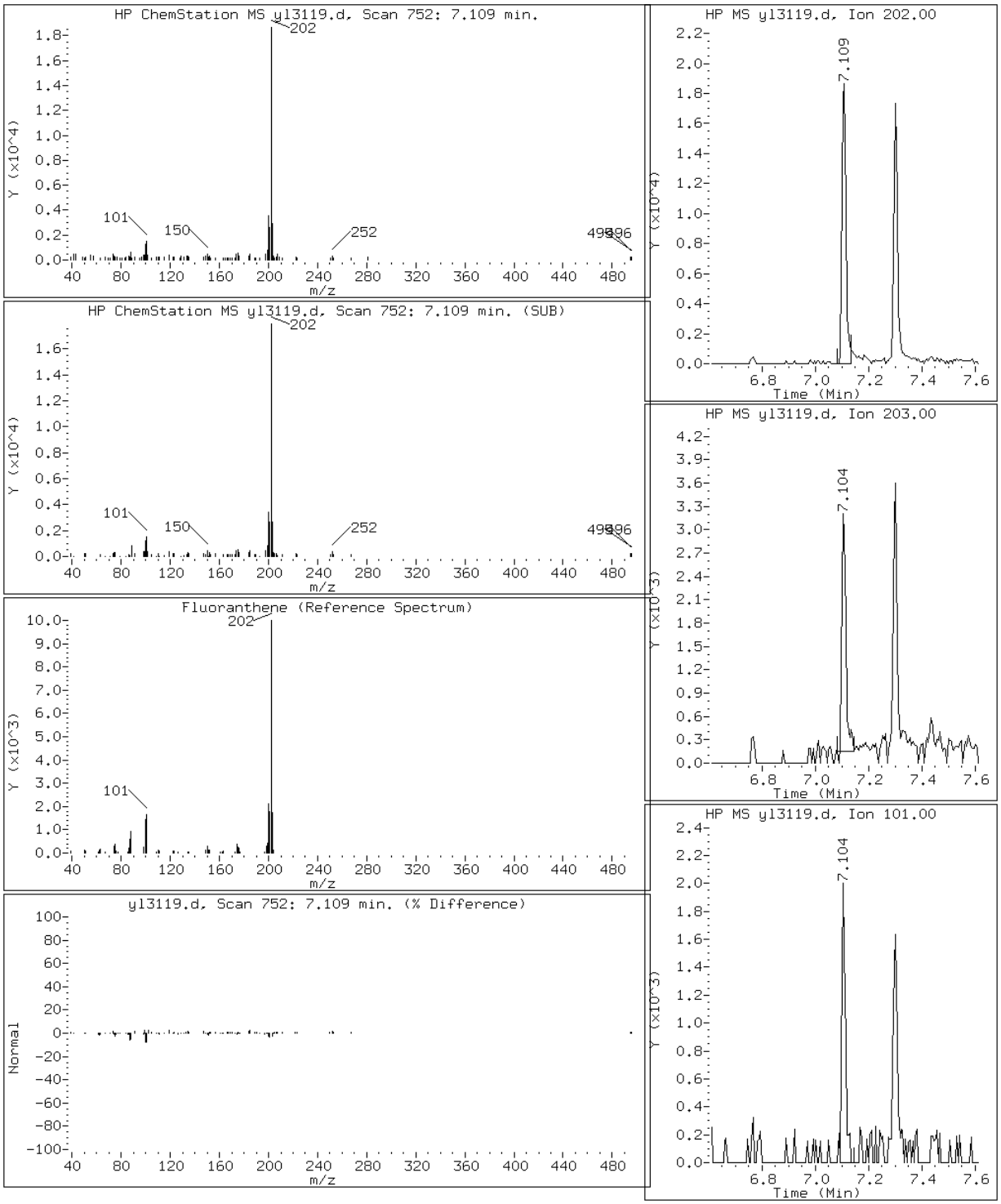
Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB

12 Fluoranthene



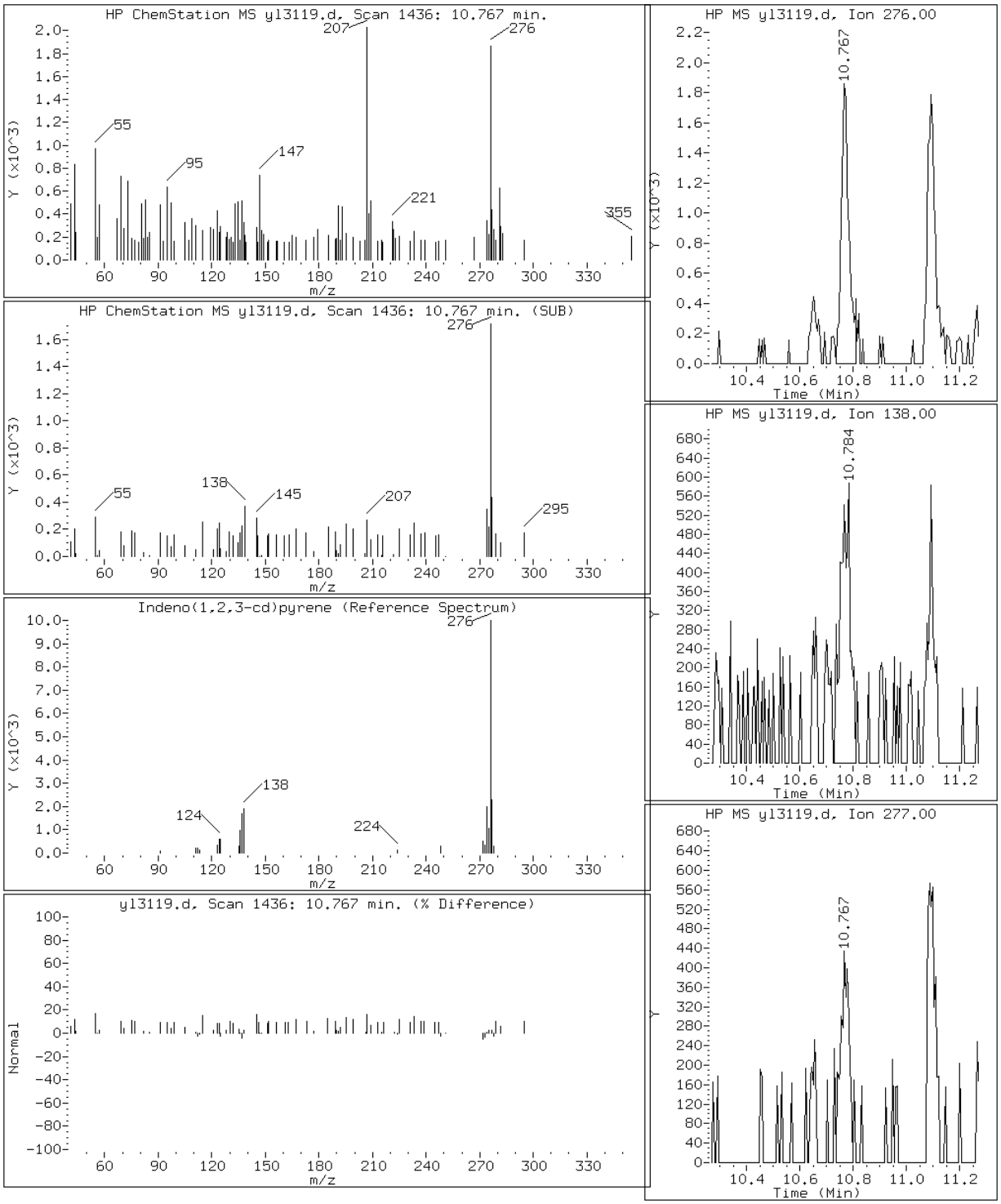
Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB

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



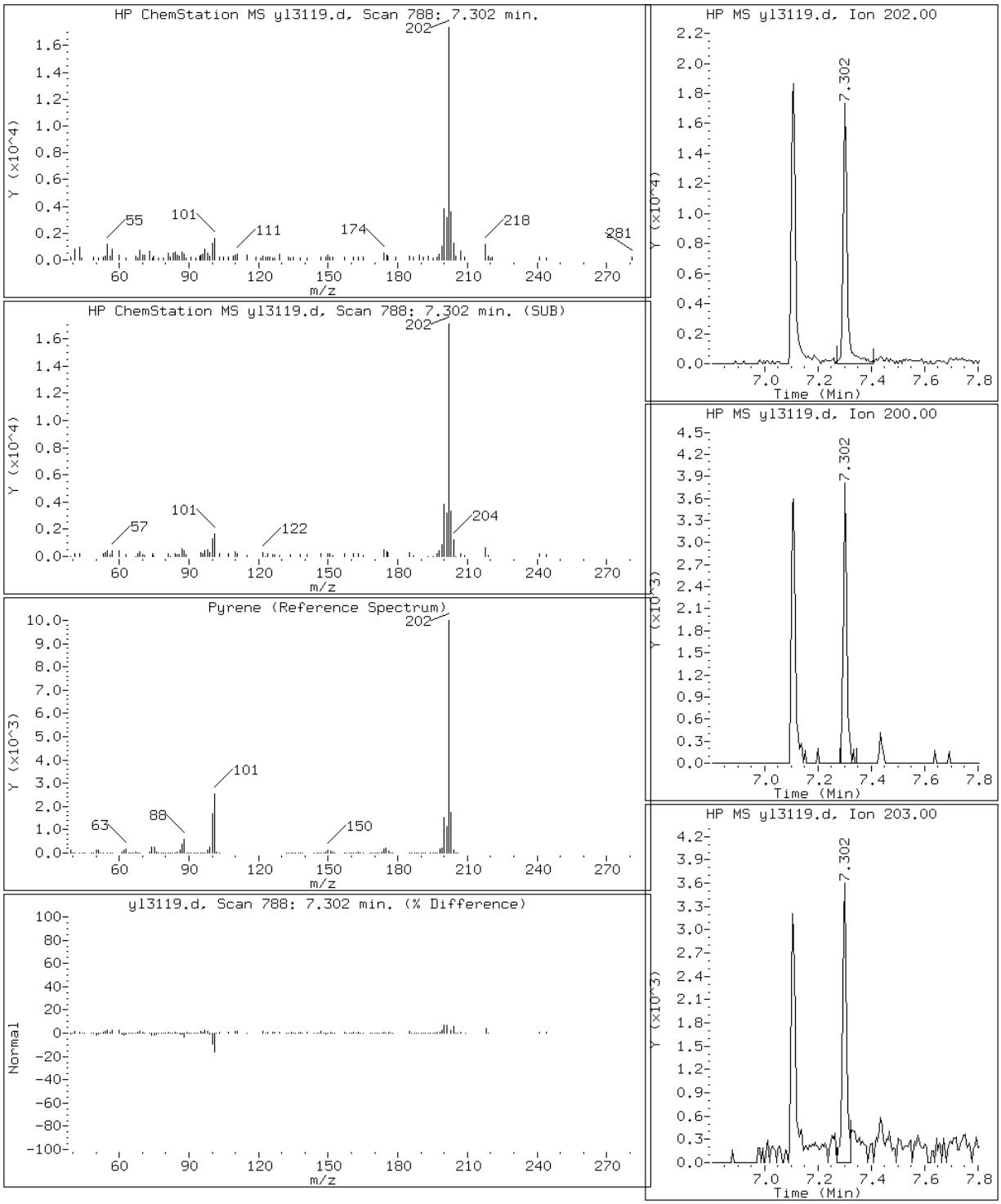
Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB

14 Pyrene



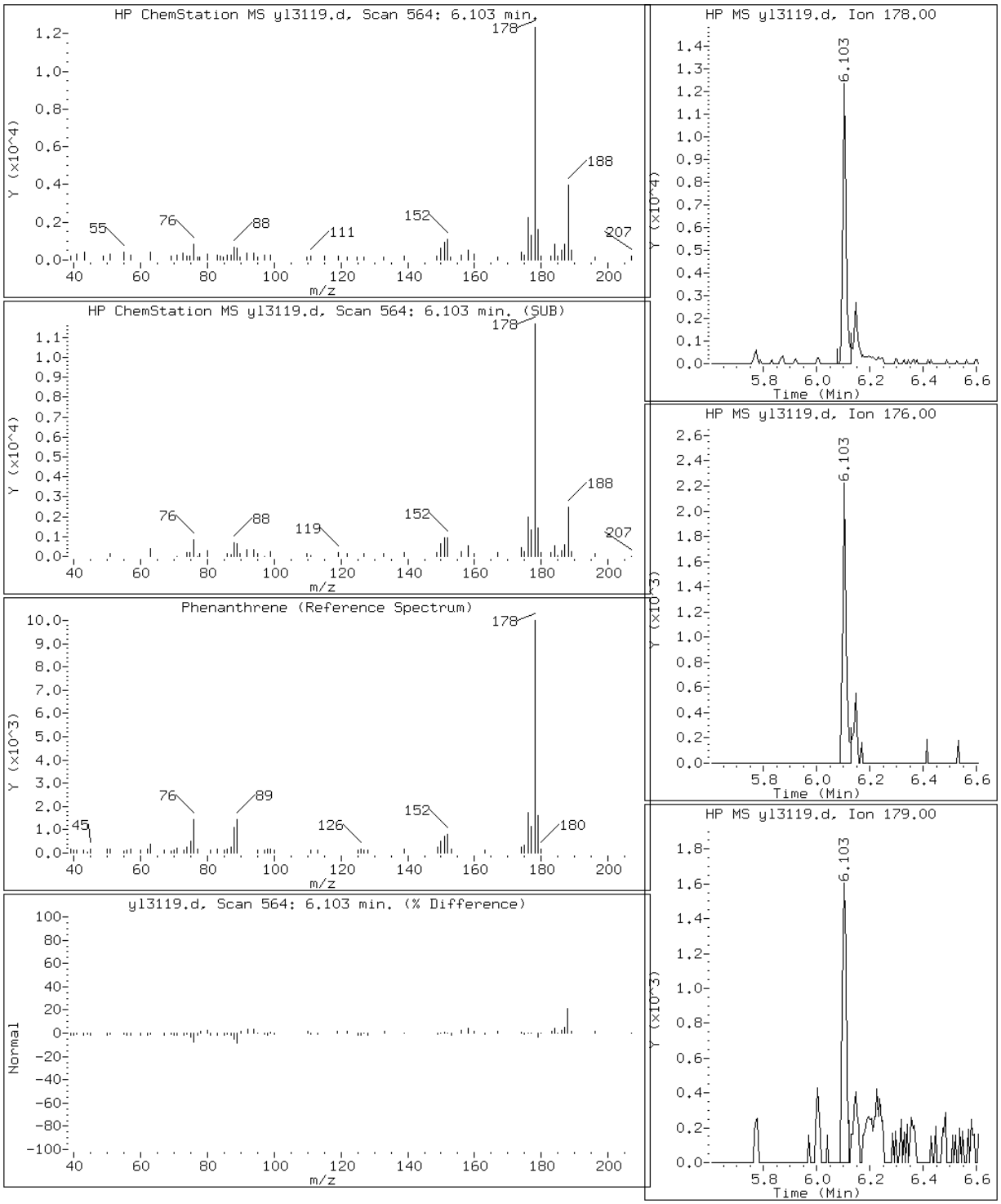
Data File: yl3119.d

Date: 31-DEC-2012 19:14

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-G DL=10 Operator: VHB

10 Phenanthrene



Manual Integration Report

Data File: yl3119.d
Inj. Date and Time: 31-DEC-2012 19:14
Instrument ID: MSY5975.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/01/2013

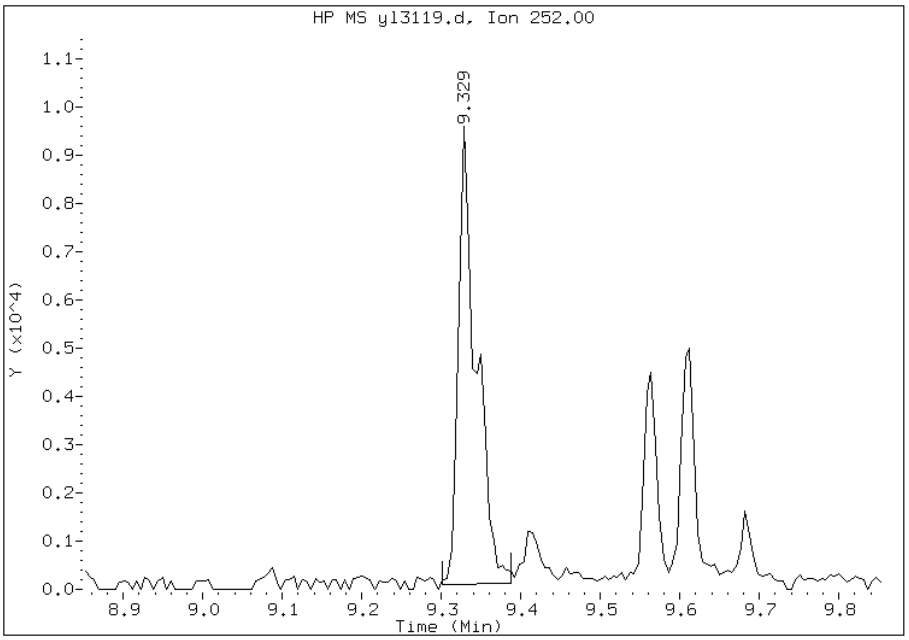
Processing Integration Results

RT: 9.33

Response: 15194

Amount: 0

Conc: 147



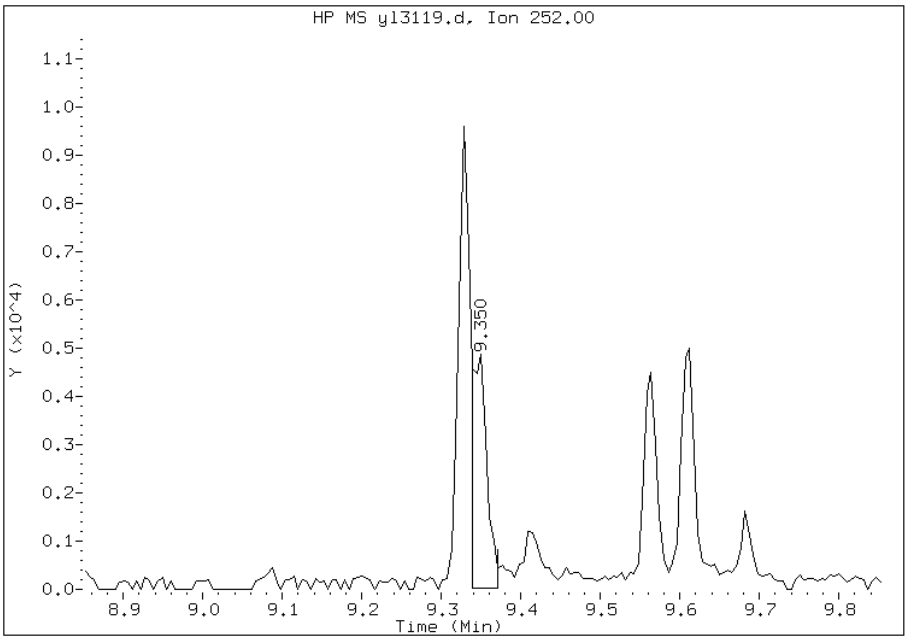
Manual Integration Results

RT: 9.35

Response: 6382

Amount: 0

Conc: 62



Manually Integrated By: chemist
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-86021-2

SDG No.: 68086021-2

Client Sample ID: CV0627B-GS | Lab Sample ID: 680-86021-29

Matrix: Solid | Lab File ID: yl3122.d

Analysis Method: 8270C_LL_PAH | Date Collected: 12/19/2012 09:25

Extract. Method: 3546 | Date Extracted: 12/28/2012 19:41

Sample wt/vol: 30.33(g) | Date Analyzed: 12/31/2012 20:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 38.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 261526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	240		110	50
91-57-6	2-Methylnaphthalene	380		110	53
83-32-9	Acenaphthene	110	U	110	53
208-96-8	Acenaphthylene	290		110	53
120-12-7	Anthracene	550		110	53
56-55-3	Benzo[a]anthracene	1200		110	53
50-32-8	Benzo[a]pyrene	1300		110	19
205-99-2	Benzo[b]fluoranthene	2500		110	53
191-24-2	Benzo[g,h,i]perylene	860		110	53
207-08-9	Benzo[k]fluoranthene	1400		110	32
218-01-9	Chrysene	1800		110	53
53-70-3	Dibenz(a,h)anthracene	330		110	53
206-44-0	Fluoranthene	1400		110	53
86-73-7	Fluorene	110	U	110	53
193-39-5	Indeno[1,2,3-cd]pyrene	780		110	53
91-20-3	Naphthalene	420		110	53
129-00-0	Pyrene	1400		110	53
85-01-8	Phenanthrene	650		110	39

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3122.d
Lab Smp Id: 680-86021-A-29-C DL
Inj Date : 31-DEC-2012 20:22
Operator : VHB Inst ID: MSY5975.i
Smp Info : 680-86021-A-29-C DL=10
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 20
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

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

Name	Value	Description
DF	10.00000	Dilution Factor
Vi	1.00000	Injection Volume
Vt	1.00000	Final Volume
Ws	30.00000	Weight Extracted
M	0.00000	% Moisture
A	1000.00000	uL to mL conversion
B	1000.00000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.00000	ug to mg conversion(value = 1 if no conv
GPC	1.00000	GPC FACTOR

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.311	3.312	(1.000)	75694	2.00000	
2 Naphthalene	128	3.333	3.333	(1.006)	34596	0.77553	258.51
3 2-Methylnaphthalene	142	3.937	3.932	(1.189)	19500	0.70042	233.47
4 1-Methylnaphthalene	142	4.017	4.018	(1.213)	13086	0.44669	148.89
6 Acenaphthylene	152	4.713	4.708	(0.976)	24822	0.53121	177.06
* 5 Acenaphthene-d10	164	4.830	4.831	(1.000)	45220	2.00000	
* 9 Phenanthrene-d10	188	6.082	6.082	(1.000)	75365	2.00000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
10 Phenanthrene	178	6.103	6.104	(1.004)	55908	1.20425	401.41
11 Anthracene	178	6.146	6.146	(1.011)	45329	1.02075	340.24
12 Fluoranthene	202	7.109	7.109	(1.169)	139038	2.56900	856.33
14 Pyrene	202	7.301	7.302	(0.870)	141589	2.63154	877.17
16 Benzo(a)Anthracene	228	8.382	8.382	(0.999)	93794	2.23010	743.36
* 13 Chrysene-d12	240	8.393	8.387	(1.000)	59281	2.00000	
17 Chrysene	228	8.414	8.414	(1.003)	125486	3.35020	1116.73
19 Benzo(b)fluoranthene	252	9.329	9.323	(0.966)	162960	4.73561	1578.53(M)
20 Benzo(k)fluoranthene	252	9.339	9.350	(0.967)	89523	2.55068	850.22(M)
21 Benzo(a)pyrene	252	9.612	9.607	(0.995)	70589	2.48708	829.02
* 18 Perylene-d12	264	9.660	9.660	(1.000)	47036	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.767	10.768	(1.283)	46756	1.45190	483.96
23 Dibenzo(a,h)anthracene	278	10.789	10.794	(1.117)	14480	0.60708	202.36
24 Benzo(g,h,i)perylene	276	11.094	11.094	(1.148)	39542	1.60262	534.20

QC Flag Legend

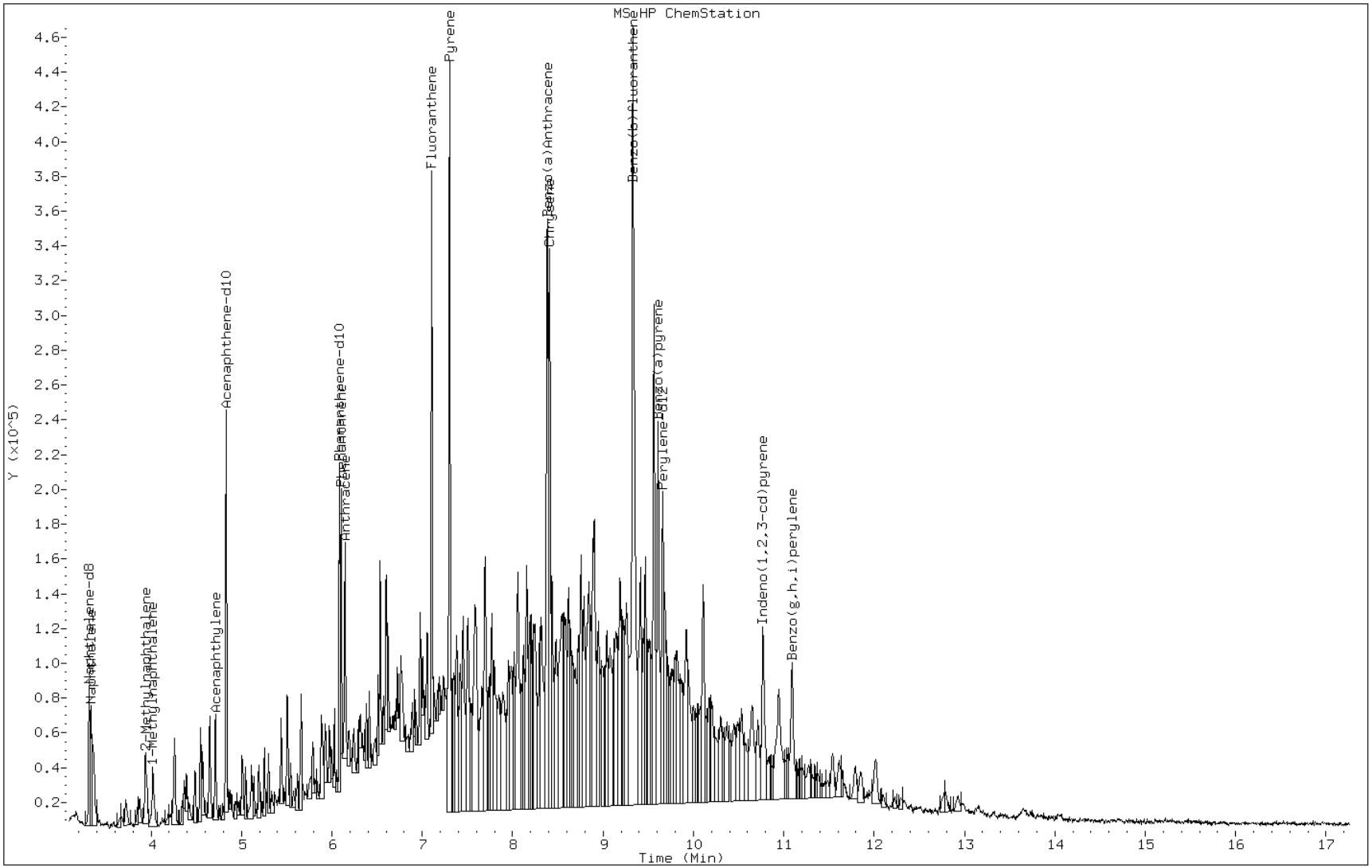
M - Compound response manually integrated.

Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB



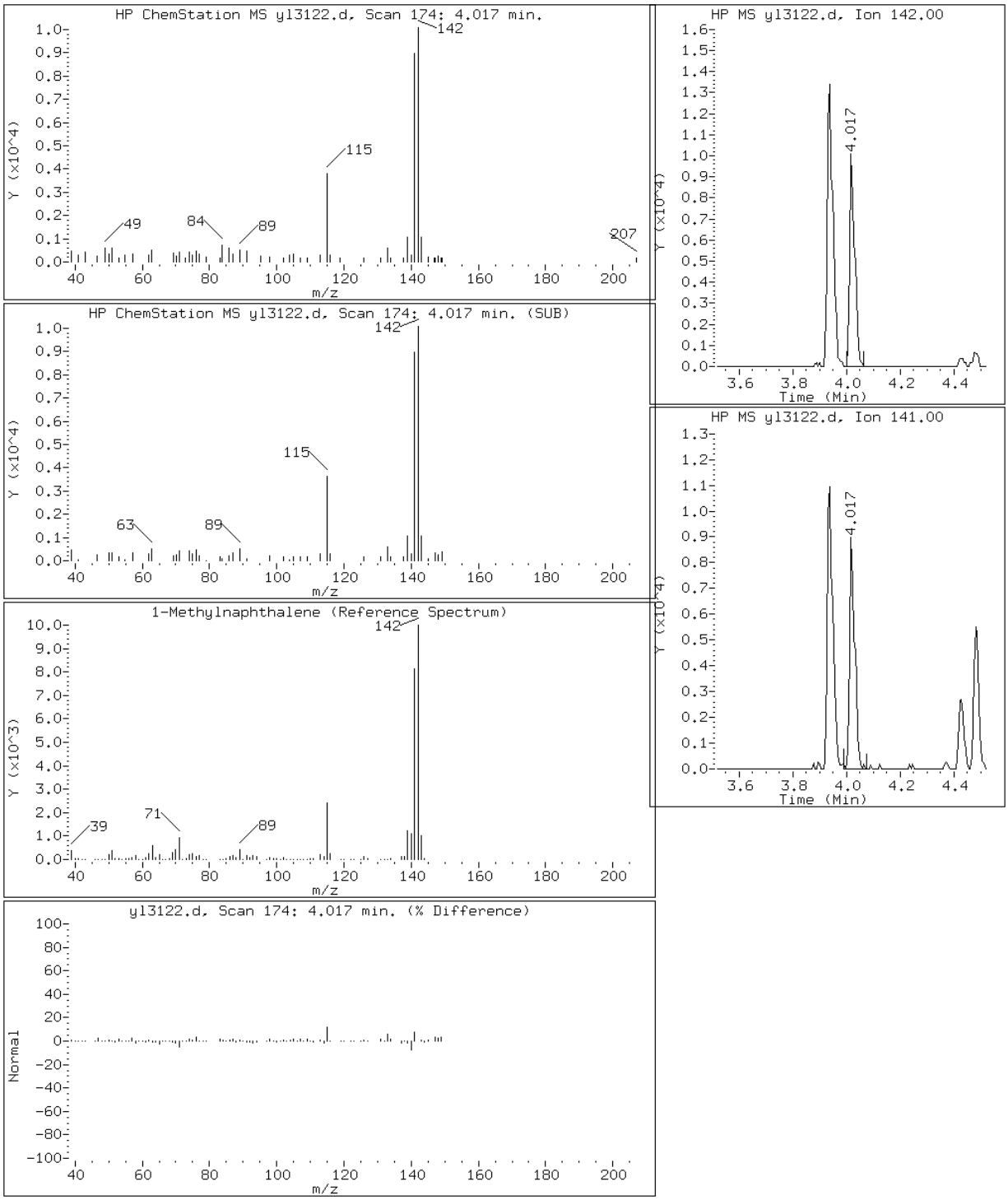
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

4 1-Methylnaphthalene



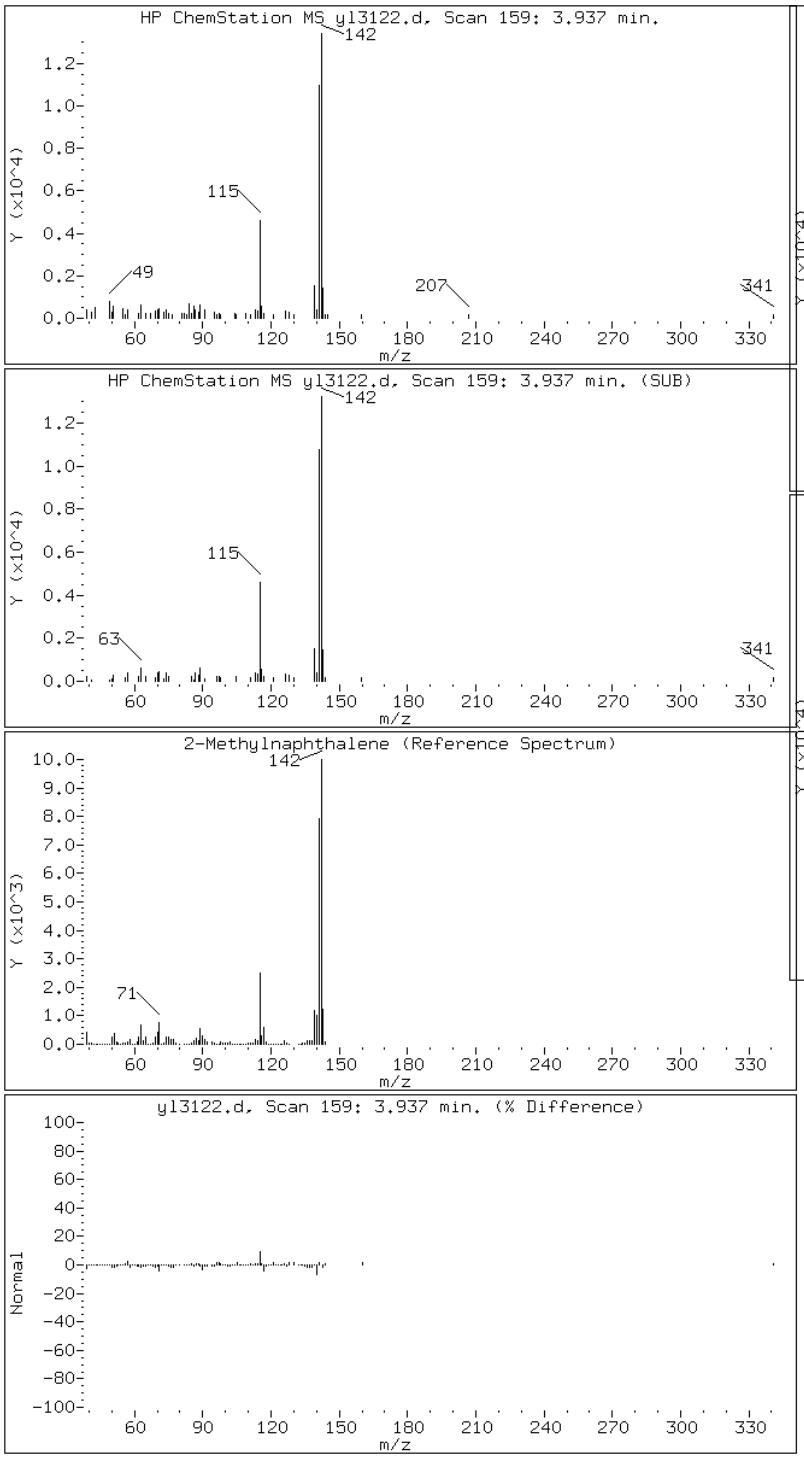
Data File: yl3122.d

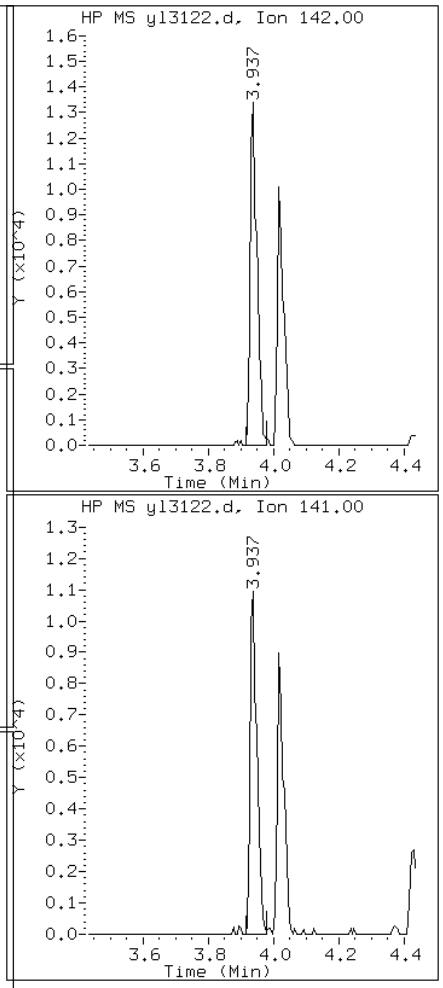
Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

3 2-Methylnaphthalene





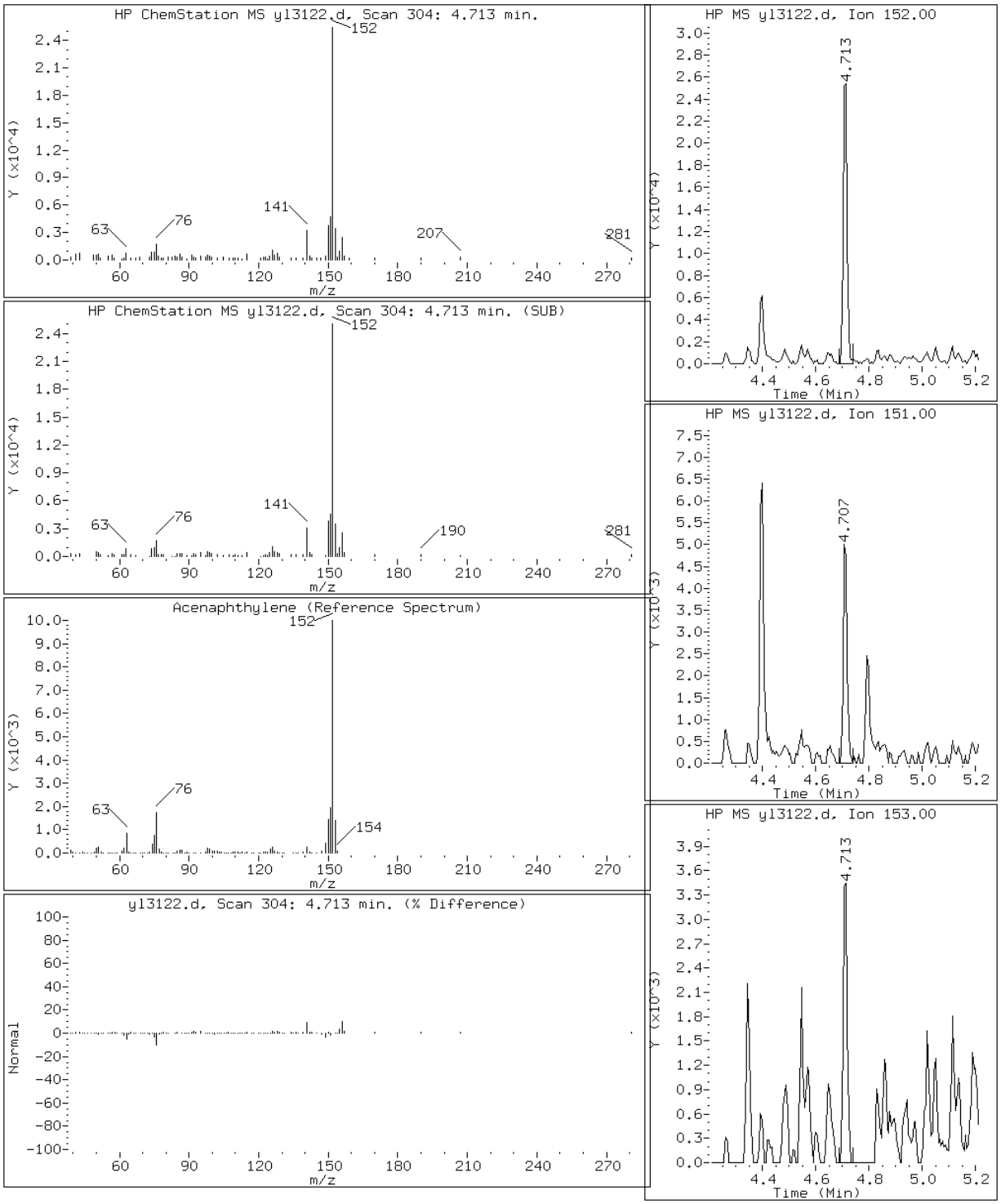
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

6 Acenaphthylene



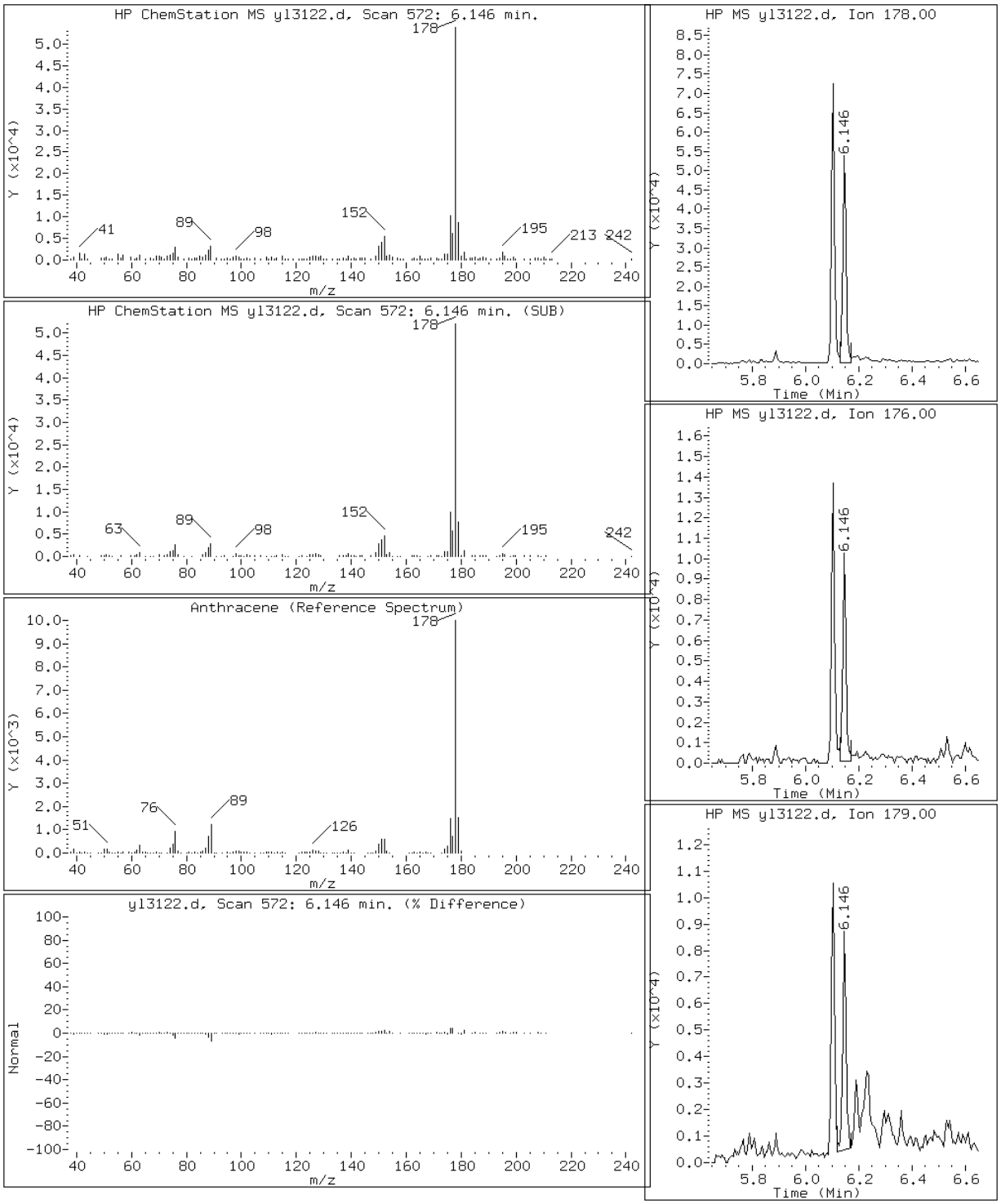
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

11 Anthracene



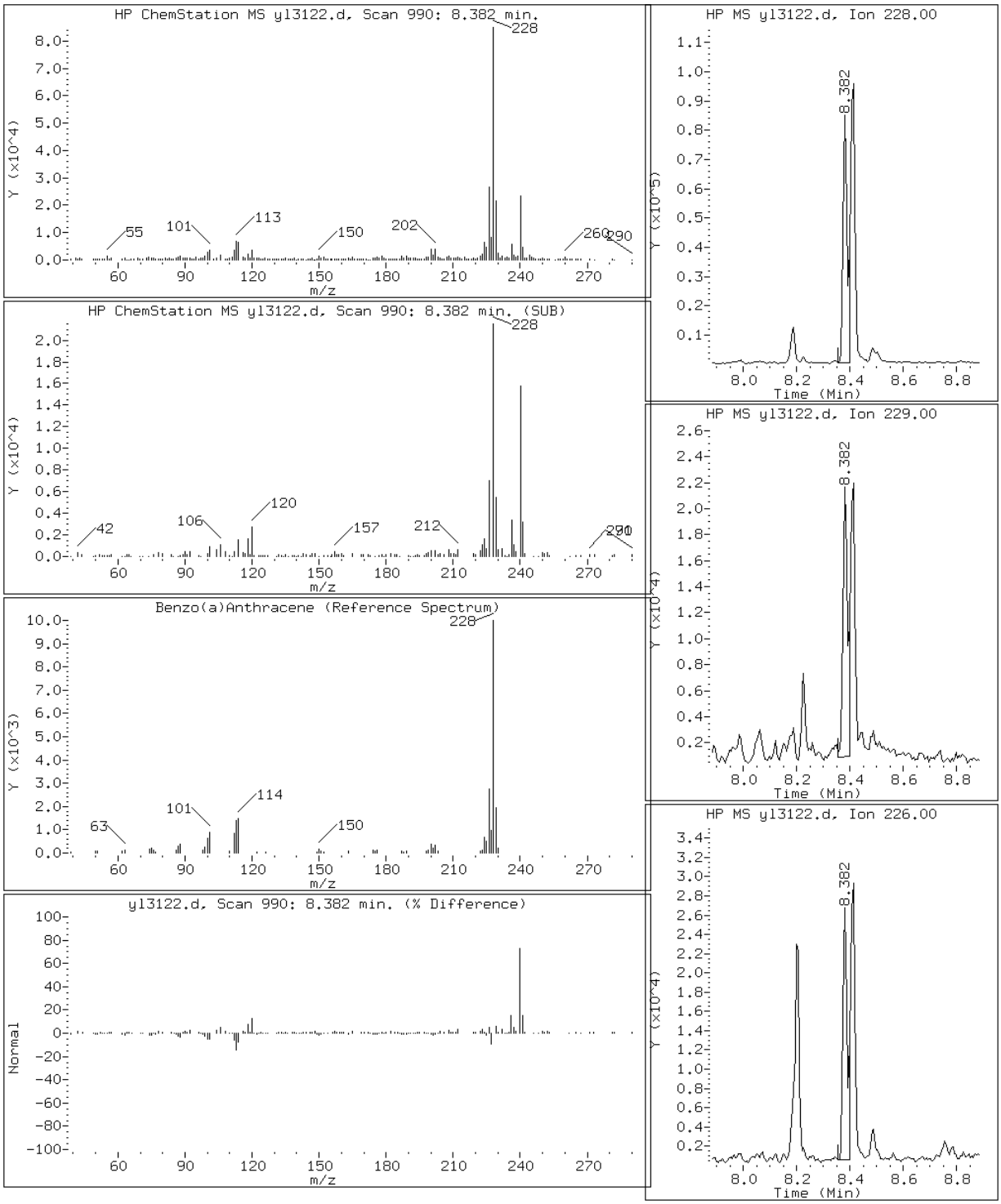
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

16 Benzo(a)Anthracene



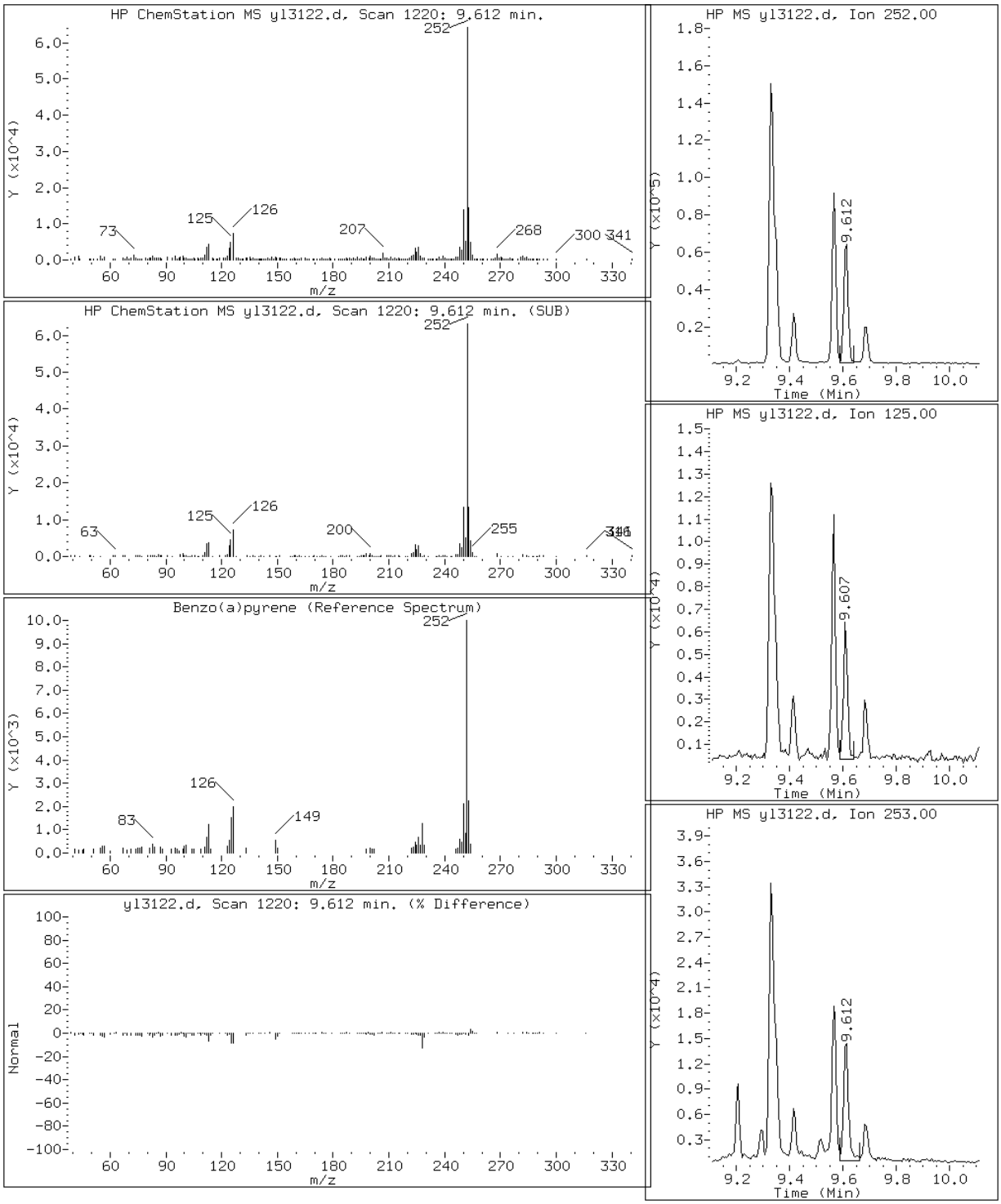
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

21 Benzo(a)pyrene



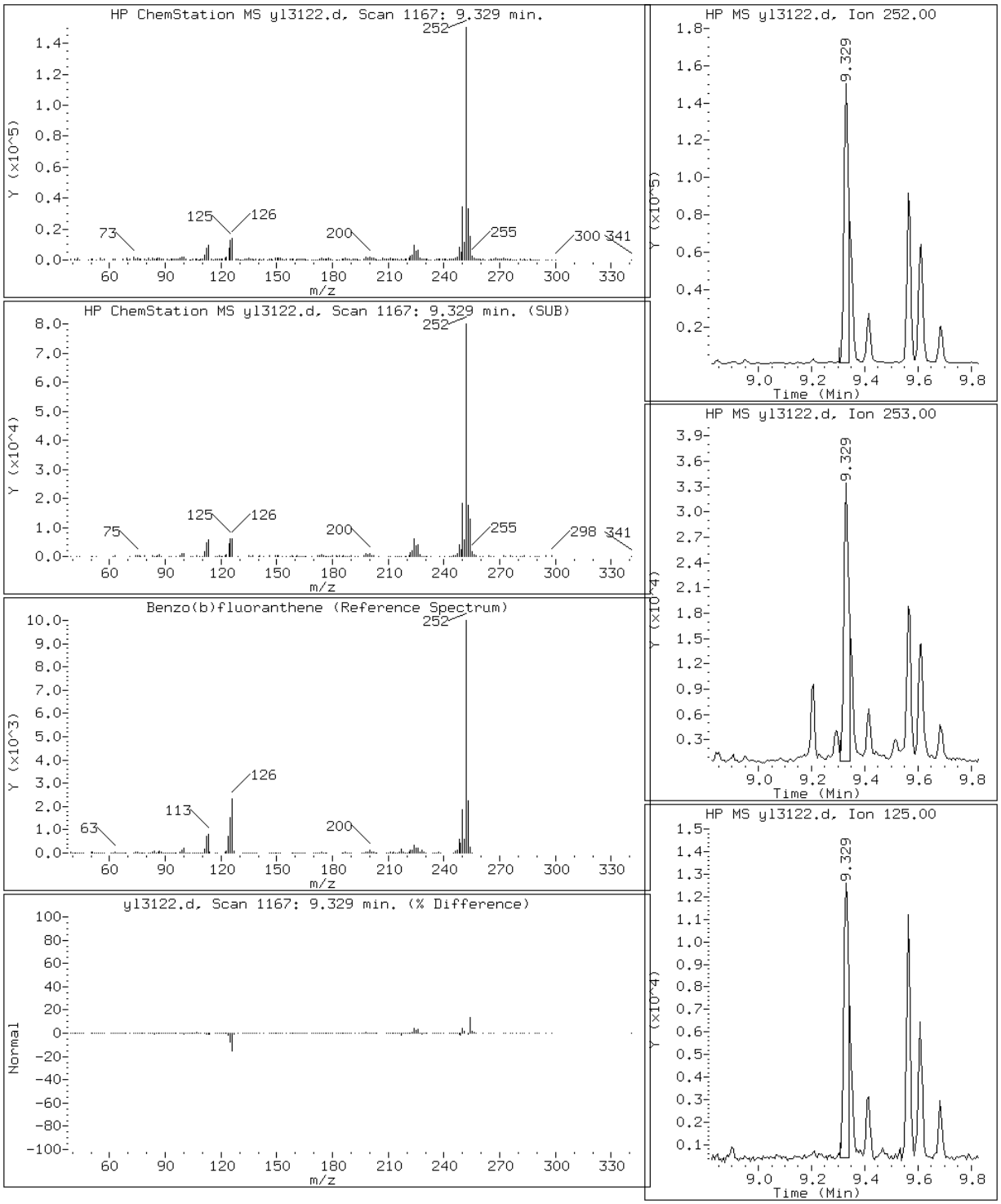
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

19 Benzo(b)fluoranthene



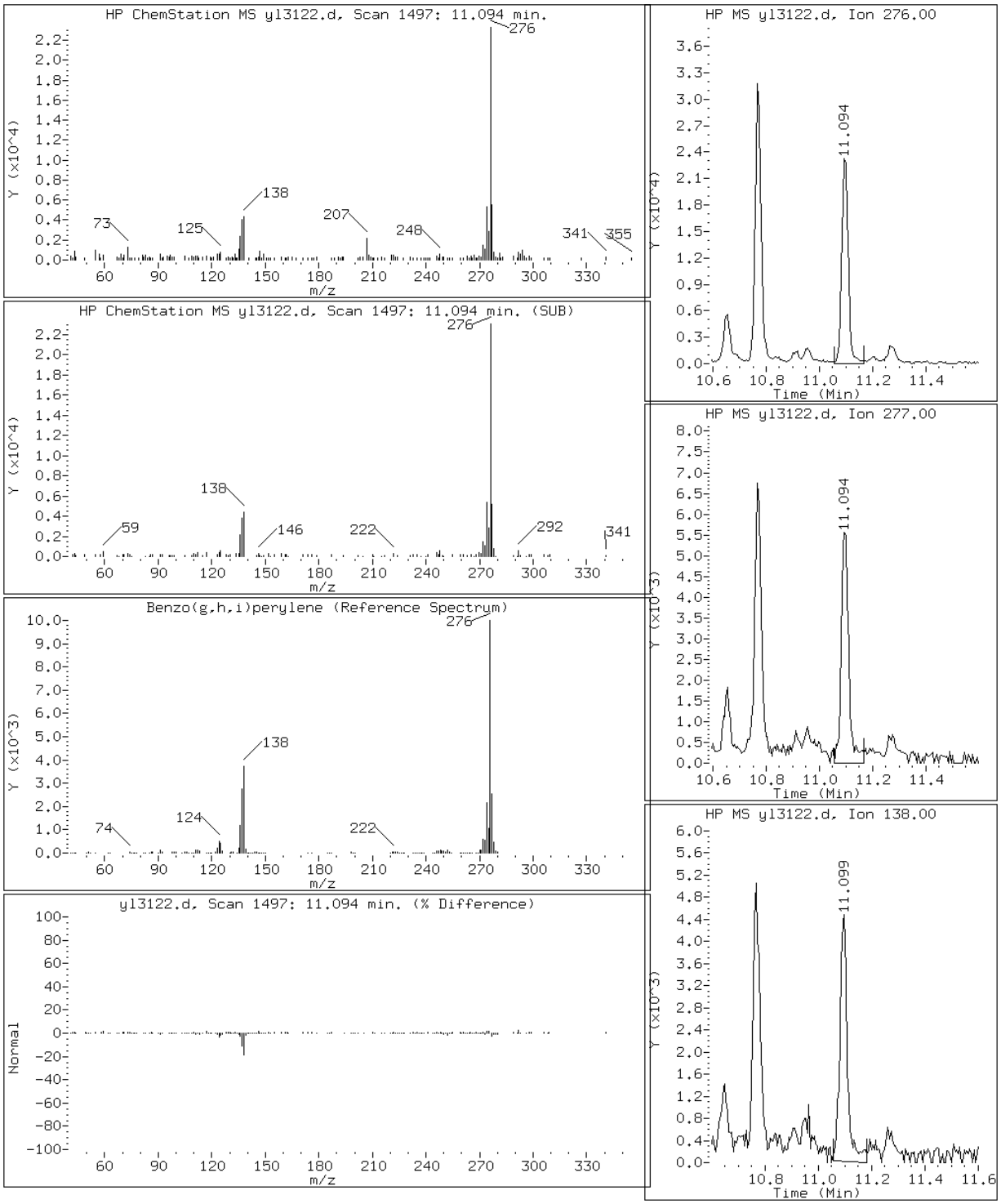
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

24 Benzo(g,h,i)perylene



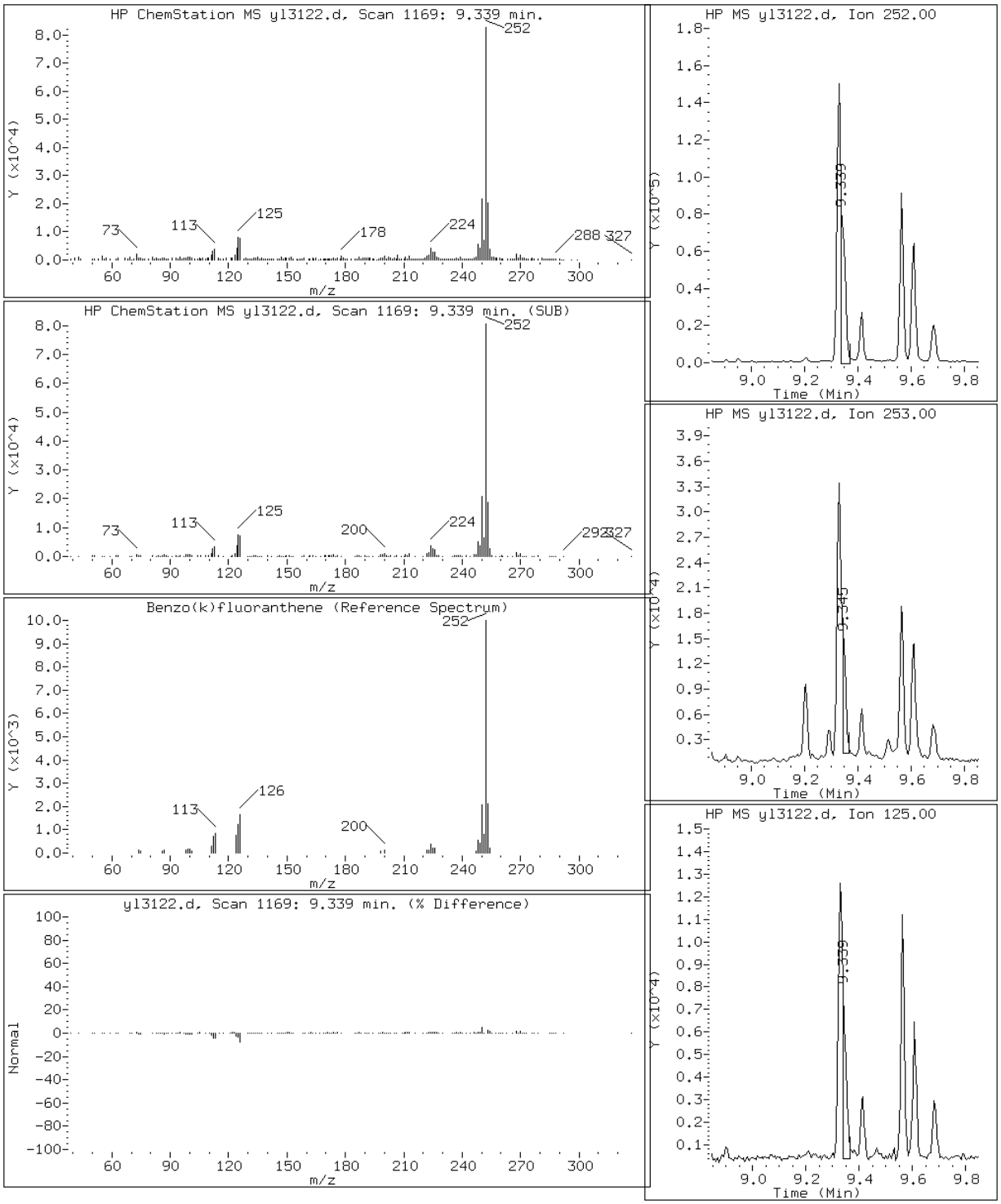
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

20 Benzo(k)fluoranthene



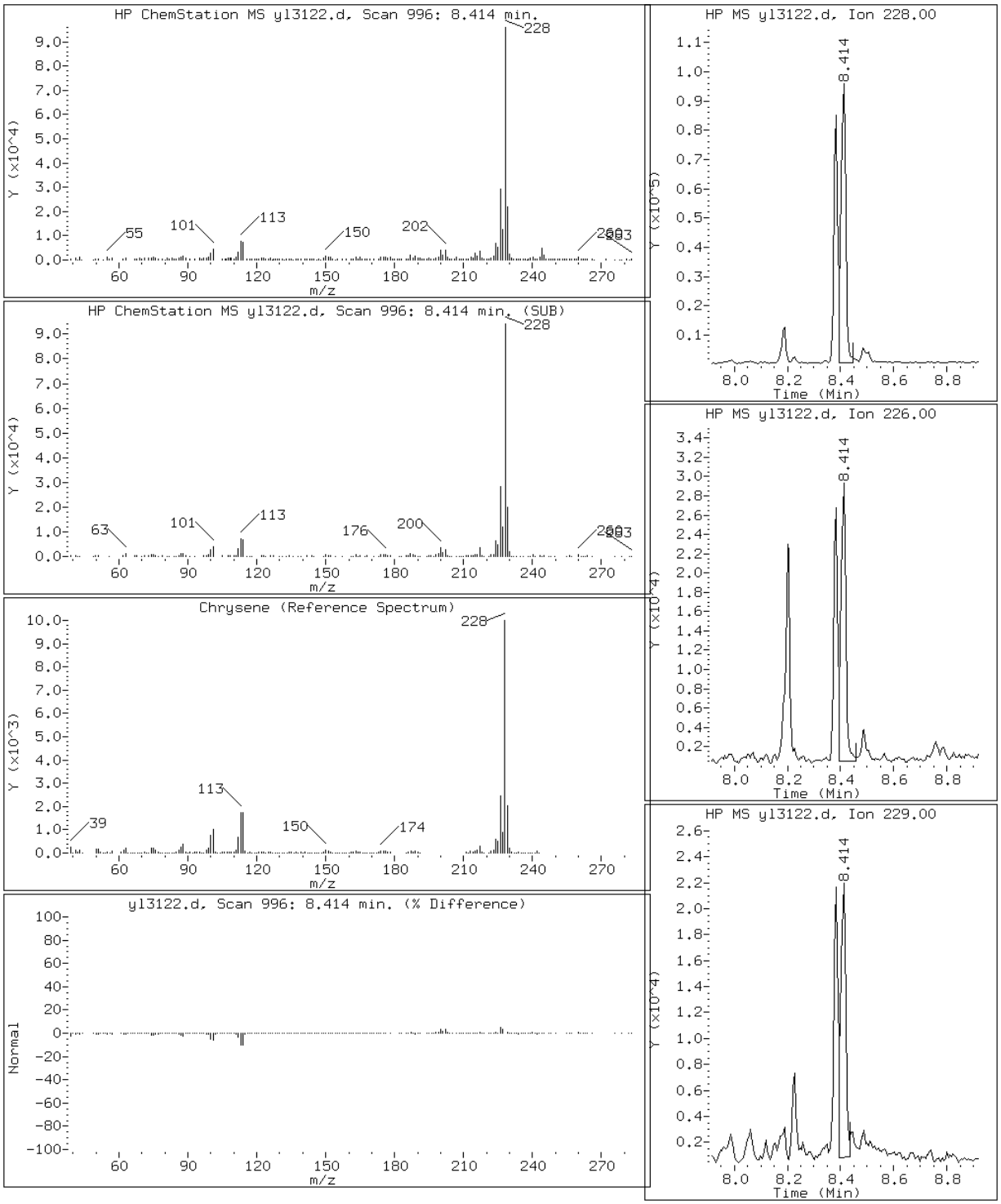
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

17 Chrysene



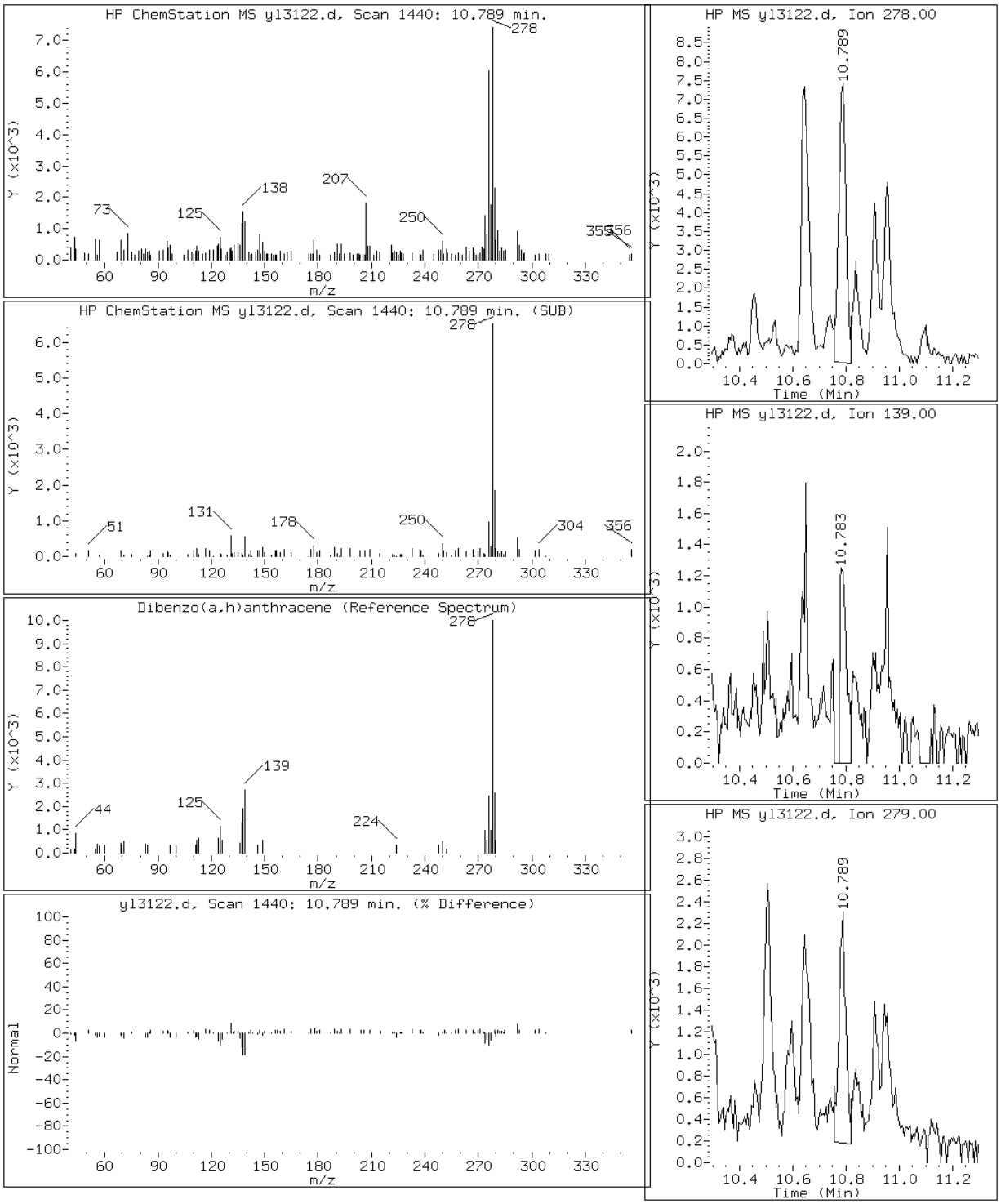
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

23 Dibenzo(a,h)anthracene



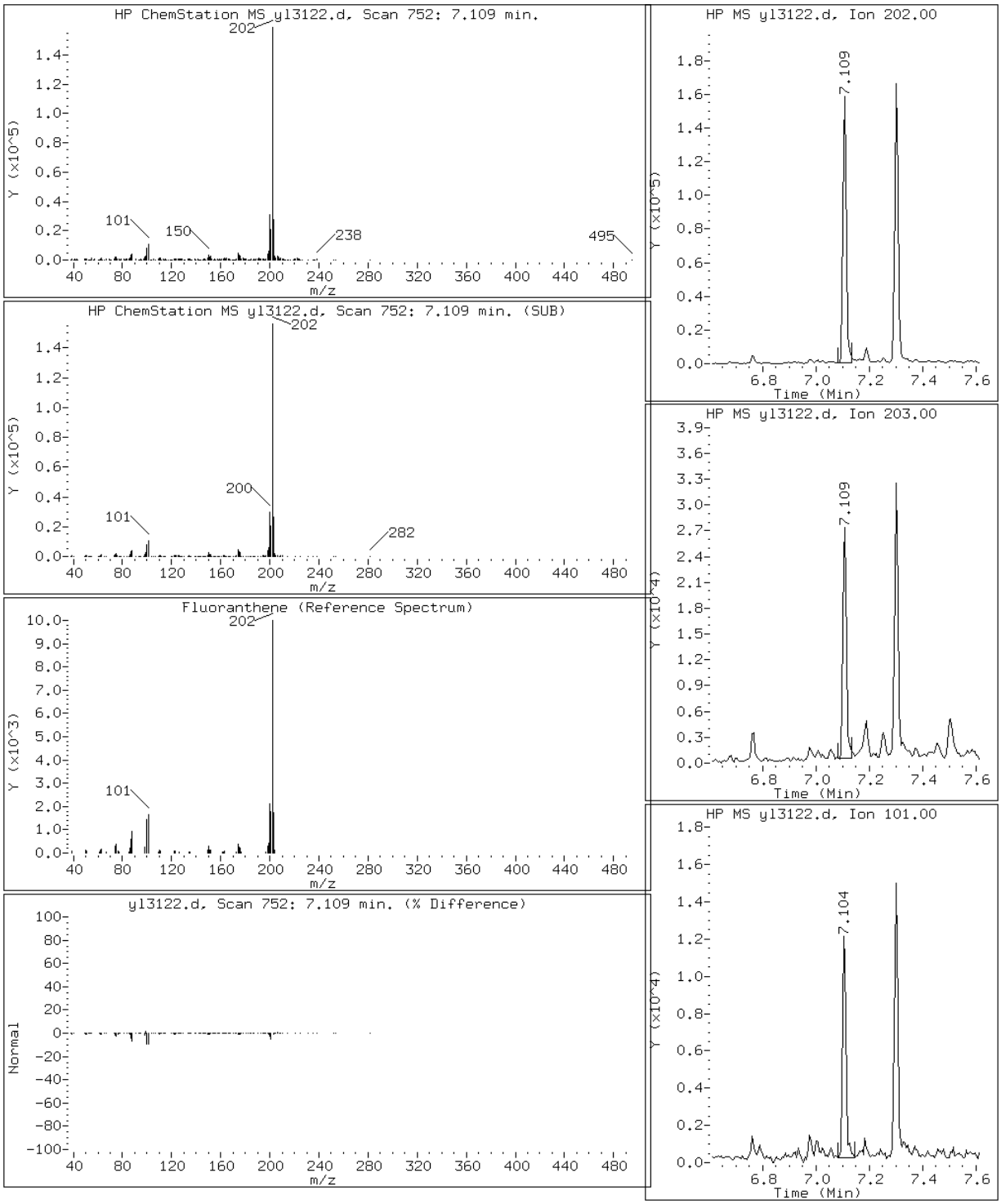
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

12 Fluoranthene



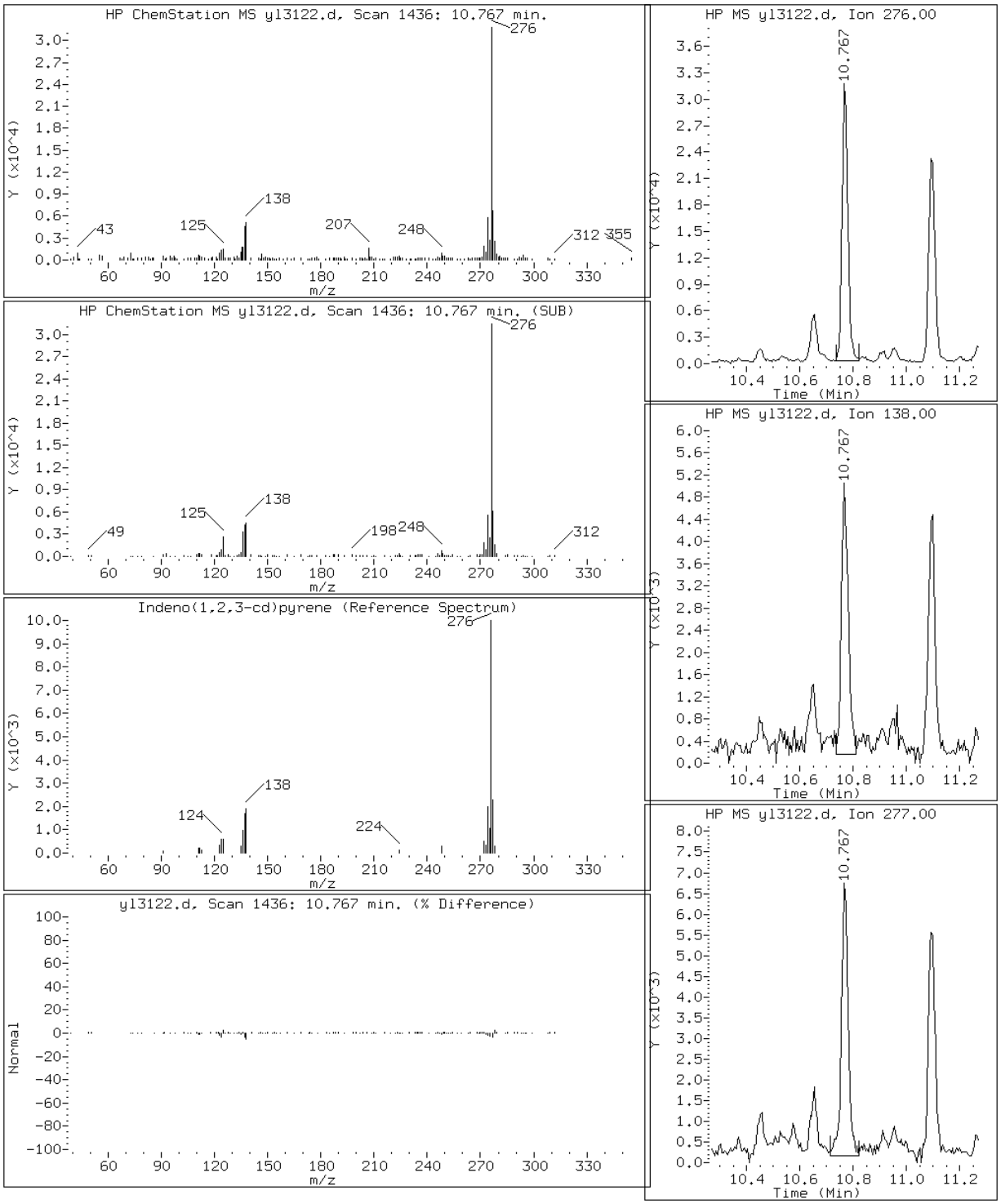
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

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



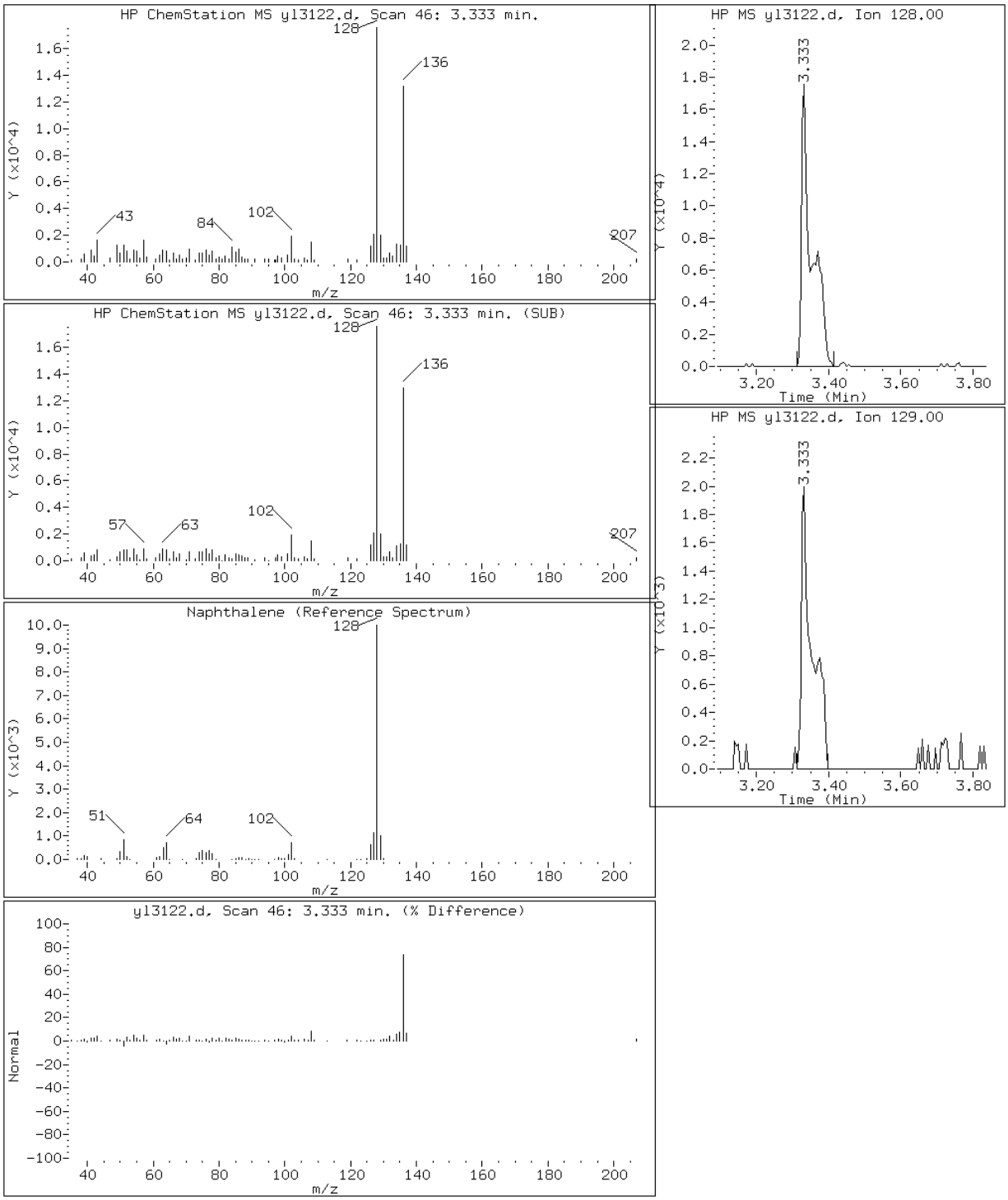
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

2 Naphthalene



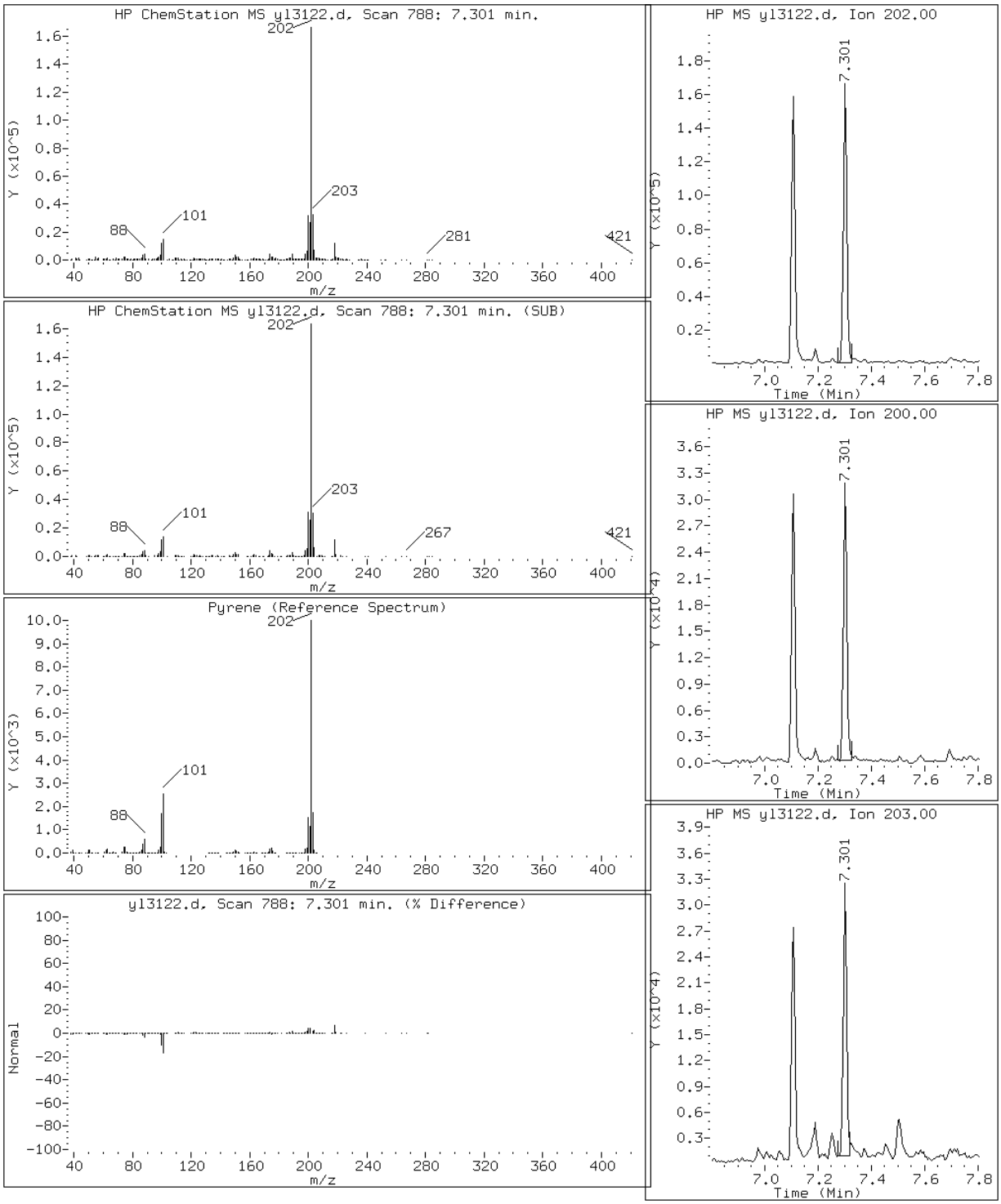
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

14 Pyrene



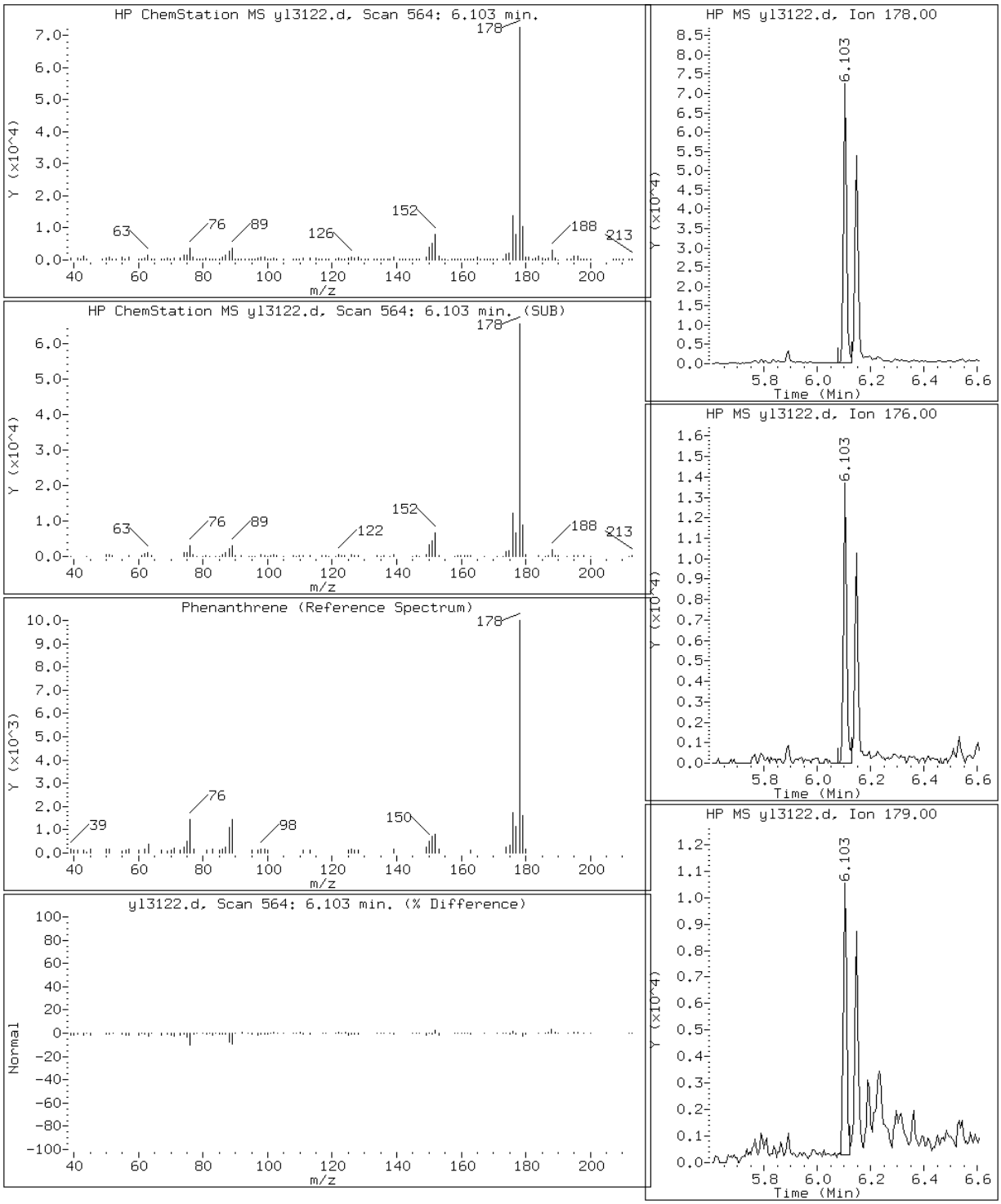
Data File: yl3122.d

Date: 31-DEC-2012 20:22

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-29-C DL=10 Operator: VHB

10 Phenanthrene



Manual Integration Report

Data File: yl3122.d
Inj. Date and Time: 31-DEC-2012 20:22
Instrument ID: MSY5975.i
Client ID:
Compound: 19 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 01/01/2013

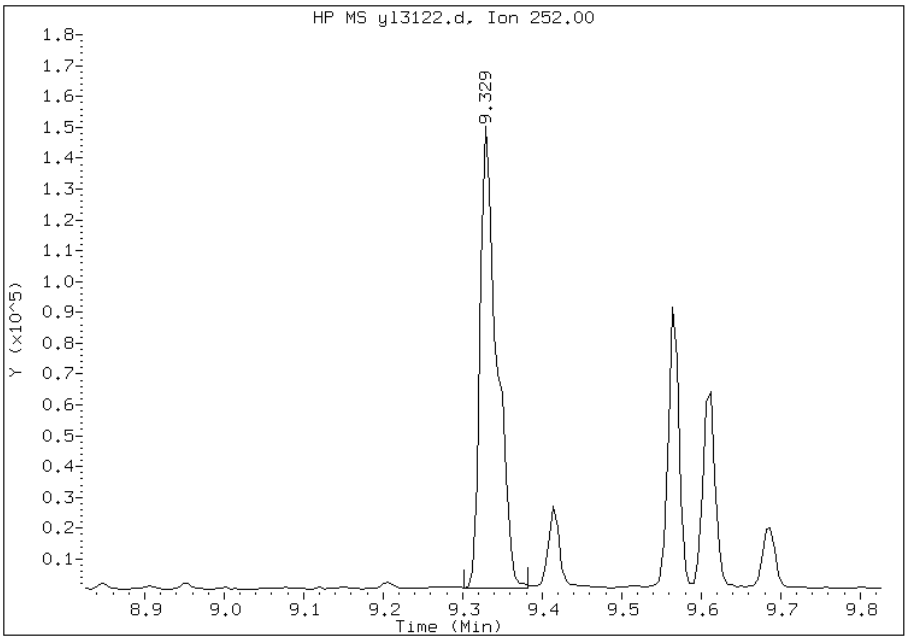
Processing Integration Results

RT: 9.33

Response: 224511

Amount: 7

Conc: 2175



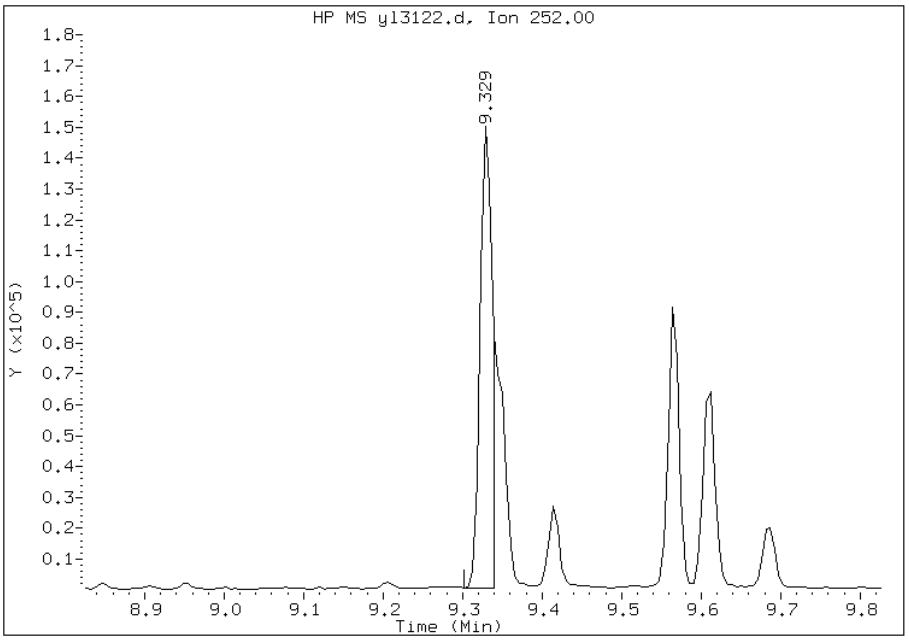
Manual Integration Results

RT: 9.33

Response: 162960

Amount: 5

Conc: 1579



Manually Integrated By: chemist
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: yl3122.d
Inj. Date and Time: 31-DEC-2012 20:22
Instrument ID: MSY5975.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/01/2013

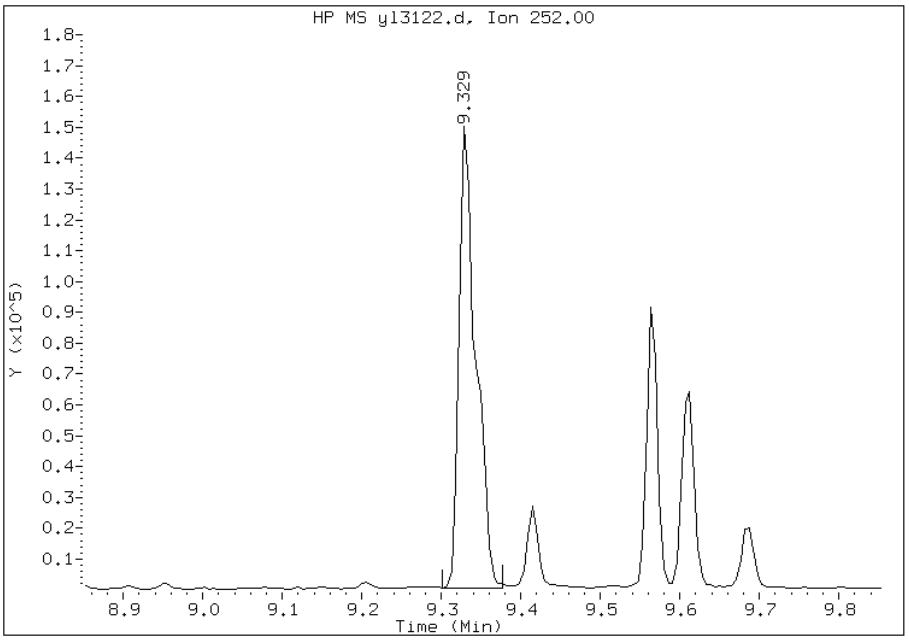
Processing Integration Results

RT: 9.33

Response: 223504

Amount: 6

Conc: 2123



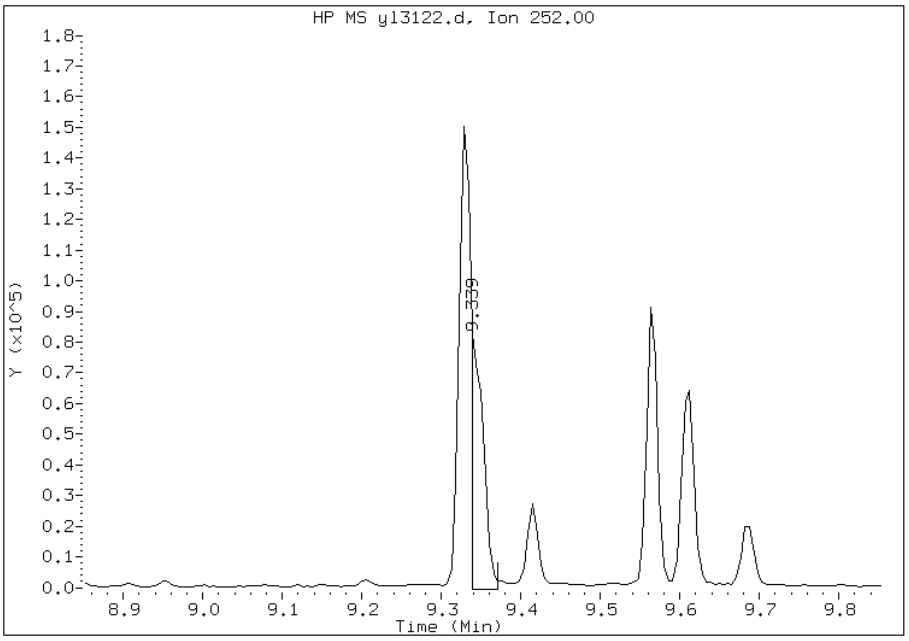
Manual Integration Results

RT: 9.34

Response: 89523

Amount: 3

Conc: 850



Manually Integrated By: chemist
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Savannah Job No.: 680-86021-2 Analy Batch No.: 261214

SDG No.: 68086021-2

Instrument ID: MSY GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2012 11:14 Calibration End Date: 12/21/2012 13:30 Calibration ID: 15368

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-261214/7	yl2111q.d
Level 2	IC 680-261214/6	yl2110q.d
Level 3	IC 680-261214/5	yl2109q.d
Level 4	ICIS 680-261214/8	yl2112q.d
Level 5	IC 680-261214/4	yl2108q.d
Level 6	IC 680-261214/3	yl2107q.d
Level 7	IC 680-261214/2	yl2106q.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	1.2224 1.1705	1.1306 1.1865	1.1325	1.1779	1.2304	Ave		1.1787				3.3		15.0			
2-Methylnaphthalene	0.7614 0.7300	0.7203 0.7405	0.7085	0.7260	0.7625	Ave		0.7356				2.8		15.0			
1-Methylnaphthalene	0.8591 0.7530	0.7427 0.7589	0.7538	0.7555	0.7955	Ave		0.7741				5.3		15.0			
Acenaphthylene	2.2620 2.0131	2.0348 2.0109	1.9677	2.0007	2.1730	Ave		2.0667				5.2		15.0			
Acenaphthene	1.5242 1.1279	1.1691 1.1611	1.1740	1.1870	1.2342	Ave		1.2254				11.1		15.0			
Fluorene	1.5495 1.3290	1.3709 1.3293	1.2930	1.3138	1.4320	Ave		1.3739				6.5		15.0			
Phenanthrene	1.4570 1.1682	1.2352 1.1295	1.1804	1.1954	1.2631	Ave		1.2320				8.8		15.0			
Anthracene	1.4485 1.1326	1.1005 1.0952	1.1089	1.1373	1.2264	Ave		1.1785				10.8		15.0			
Fluoranthene	1.7811 1.3447	1.3815 1.3202	1.3751	1.3672	1.4839	Ave		1.4362				11.2		15.0			
Pyrene	2.1583 1.7013	1.7706 1.8182	1.7350	1.7365	1.7758	Ave		1.8152				8.6		15.0			
Benzo[a]anthracene	1.8035 1.2818	1.3941 1.3106	1.3866	1.2819	1.4282	Ave		1.4189				12.5		15.0			
Chrysene	1.9326 1.2348	1.5741 1.2608	1.4167	1.3425	1.3937	LinF		1.2637							0.9989		
Benzo[b]fluoranthene	2.2367 1.3855	1.7694 1.4699	1.7216	1.5776	1.6000	LinF		1.4632							0.9981		
Benzo[k]fluoranthene	2.0023 1.3601	2.0373 1.5222	1.6405	1.4427	1.4808	LinF		1.4924							0.9968		

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 Savannah Job No.: 680-86021-2 Analy Batch No.: 261214

SDG No.: 68086021-2

Instrument ID: MSY GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2012 11:14 Calibration End Date: 12/21/2012 13:30 Calibration ID: 15368

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	1.7700 1.1842	1.3864 1.2036	1.2739	1.2108	1.3286	LinF		1.2068							0.9990		
Indeno[1,2,3-cd]pyrene	1.8061 1.1241	1.3371 1.0507	1.2510	1.2348	1.3696	LinF		1.0865							0.9925		
Dibenz(a,h)anthracene	1.6744 1.0186	1.2560 0.9968	1.1933	1.1075	1.2043	LinF		1.0142							0.9965		
Benzo[g,h,i]perylene	1.6840 1.0462	1.3269 1.0342	1.2090	1.1609	1.2318	LinF		1.0491							0.9970		
o-Terphenyl	1.2820 0.9917	1.0885 1.0619	1.0049	1.1310	0.9967	Ave		1.0796				9.6		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 Savannah Job No.: 680-86021-2 Analy Batch No.: 261214

SDG No.: 68086021-2

Instrument ID: MSY GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2012 11:14 Calibration End Date: 12/21/2012 13:30 Calibration ID: 15368

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-261214/7	yl2111q.d
Level 2	IC 680-261214/6	yl2110q.d
Level 3	IC 680-261214/5	yl2109q.d
Level 4	ICIS 680-261214/8	yl2112q.d
Level 5	IC 680-261214/4	yl2108q.d
Level 6	IC 680-261214/3	yl2107q.d
Level 7	IC 680-261214/2	yl2106q.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	10928 655103	26615 1303355	58580	115402	285517	0.200 10.0	0.500 20.0	1.00	2.00	5.00
2-Methylnaphthalene	NPT	Ave	6807 408563	16956 813407	36650	71128	176944	0.200 10.0	0.500 20.0	1.00	2.00	5.00
1-Methylnaphthalene	NPT	Ave	7680 421464	17483 833654	38990	74017	184595	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Acenaphthylene	ANT	Ave	11991 687669	27524 1351349	60647	114203	297037	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Acenaphthene	ANT	Ave	8080 385270	15814 780255	36185	67757	168710	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Fluorene	ANT	Ave	8214 453990	18543 893333	39852	74992	195748	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Phenanthrene	PHN	Ave	11432 598224	24440 1157165	53096	98330	263106	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Anthracene	PHN	Ave	11365 579984	21776 1121964	49878	93551	255464	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Fluoranthene	PHN	Ave	13975 688607	27335 1352542	61851	112469	309103	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Pyrene	CRY	Ave	14092 700800	29581 1363205	63932	112506	320036	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Benzo[a]anthracene	CRY	Ave	11775 527993	23292 982590	51093	83057	257391	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Chrysene	CRY	LinF	12618 508638	26299 945266	52203	86980	251185	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Benzo[b]fluoranthene	PRY	LinF	14066 506230	27084 934884	57417	92199	264968	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Benzo[k]fluoranthene	PRY	LinF	12592 496957	31185 968145	54714	84319	245237	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Benzo[a]pyrene	PRY	LinF	11131 432693	21221 765496	42487	70763	220028	0.200 10.0	0.500 20.0	1.00	2.00	5.00

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

Lab Name: TestAmerica Savannah Job No.: 680-86021-2 Analy Batch No.: 261214

SDG No.: 68086021-2

Instrument ID: MSY GC Column: HP-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2012 11:14 Calibration End Date: 12/21/2012 13:30 Calibration ID: 15368

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	CRY	LinF	11792 463042	22339 787774	46096	80004	246836	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Dibenz(a,h)anthracene	PRY	LinF	10530 372188	19225 634006	39799	64729	199440	0.200 10.0	0.500 20.0	1.00	2.00	5.00
Benzo[g,h,i]perylene	PRY	LinF	10590 382257	20311 657788	40323	67846	204002	0.200 10.0	0.500 20.0	1.00	2.00	5.00
o-Terphenyl	CRY	Ave	8370 408476	18185 796144	37029	73277	179634	0.200 10.0	0.500 20.0	1.00	2.00	5.00

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y122112.b/yl2106q.d
Lab Smp Id: IC-2897217; LLPAH7
Inj Date : 21-DEC-2012 11:14
Operator : VHB Inst ID: MSY5975.i
Smp Info : IC-2897217; LLPAH7
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y122112.b/Y-b8270CLLPAH-m.m
Meth Date : 21-Dec-2012 11:35 chemist Quant Type: ISTD
Cal Date : 21-DEC-2012 11:14 Cal File: yl2106q.d
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.392	3.392	(1.000)	109851	2.00000	
2 Naphthalene	128	3.408	3.408	(1.005)	1303355	20.0000	20.00
3 2-Methylnaphthalene	142	4.012	4.012	(1.183)	813407	20.0000	20.00
4 1-Methylnaphthalene	142	4.098	4.098	(1.208)	833654	20.0000	20.00
6 Acenaphthylene	152	4.788	4.788	(0.975)	1351349	20.0000	20.00
* 5 Acenaphthene-d10	164	4.911	4.911	(1.000)	67202	2.00000	
7 Acenaphthene	154	4.938	4.938	(1.005)	780255	20.0000	20.00(A)
8 Fluorene	166	5.382	5.382	(1.096)	893333	20.0000	20.00
* 9 Phenanthrene-d10	188	6.162	6.162	(1.000)	102446	2.00000	
10 Phenanthrene	178	6.184	6.184	(1.003)	1157165	20.0000	20.00
11 Anthracene	178	6.227	6.227	(1.010)	1121964	20.0000	20.00(A)
$ 15 o-Terphenyl	230	6.494	6.494	(0.766)	796144	20.0000	20.00
12 Fluoranthene	202	7.189	7.189	(1.167)	1352542	20.0000	20.00
14 Pyrene	202	7.387	7.387	(0.871)	1363205	20.0000	20.00
16 Benzo(a)Anthracene	228	8.468	8.468	(0.999)	982590	20.0000	20.00
* 13 Chrysene-d12	240	8.478	8.478	(1.000)	74974	2.00000	
17 Chrysene	228	8.505	8.505	(1.003)	945266	20.0000	20.00
19 Benzo(b)fluoranthene	252	9.420	9.420	(0.965)	934884	20.0000	20.00
20 Benzo(k)fluoranthene	252	9.441	9.441	(0.968)	968145	20.0000	20.00
21 Benzo(a)pyrene	252	9.709	9.709	(0.995)	765496	20.0000	20.00
* 18 Perylene-d12	264	9.757	9.757	(1.000)	63602	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.912	10.912	(1.287)	787774	20.0000	20.00
23 Dibenzo(a,h)anthracene	278	10.933	10.933	(1.121)	634006	20.0000	20.00
24 Benzo(g,h,i)perylene	276	11.260	11.260	(1.154)	657788	20.0000	20.00

QC Flag Legend

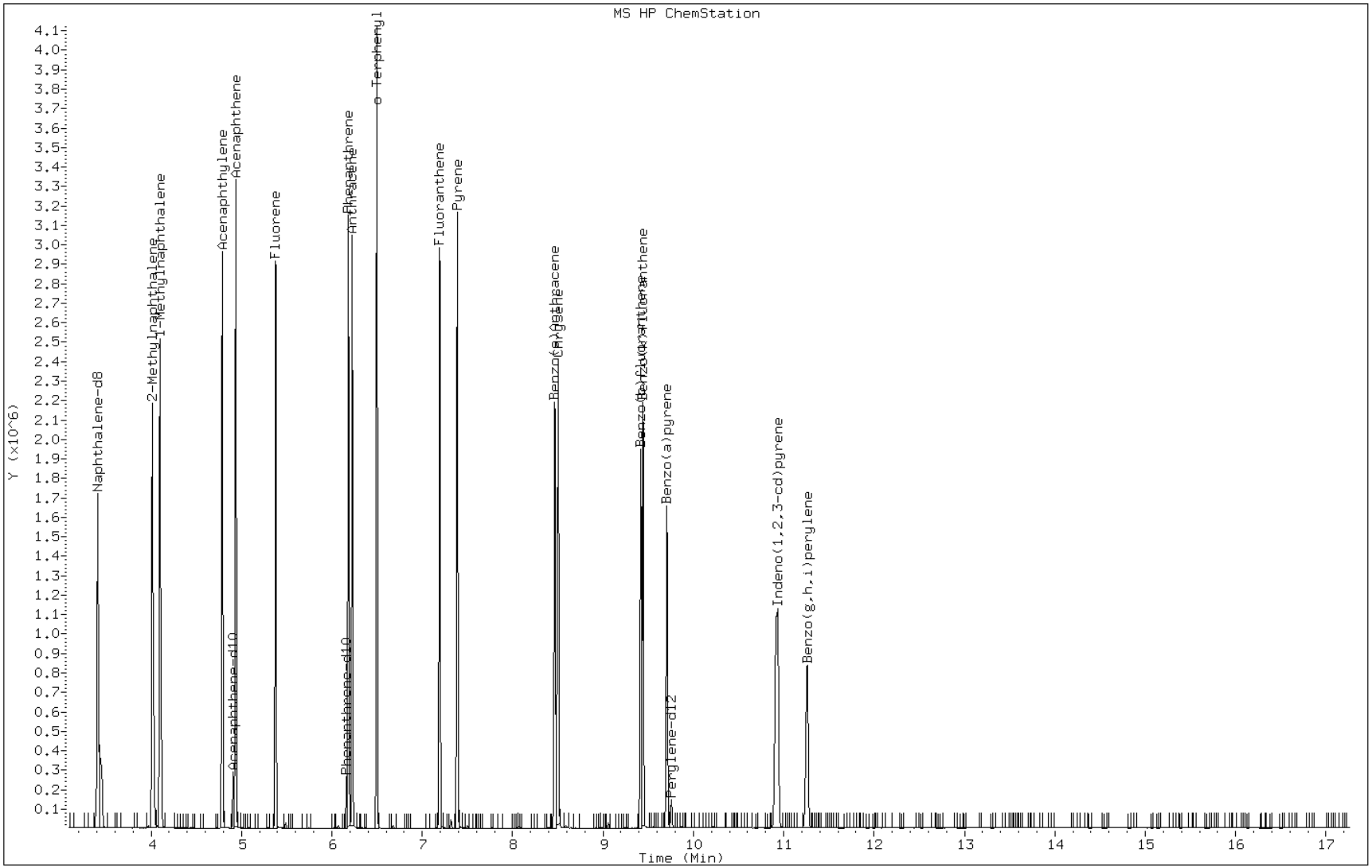
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: yl2106q.d

Date: 21-DEC-2012 11:14

Client ID: Instrument: MSY5975.i

Sample Info: IC-2897217; LLPAH7 Operator: VHB



TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y122112.b/yl2107q.d
Lab Smp Id: IC-2897218; LLPAH6
Inj Date : 21-DEC-2012 11:37
Operator : VHB Inst ID: MSY5975.i
Smp Info : IC-2897218; LLPAH6
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y122112.b/Y-b8270CLLPAH-m.m
Meth Date : 21-Dec-2012 12:04 chemist Quant Type: ISTD
Cal Date : 21-DEC-2012 11:37 Cal File: yl2107q.d
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

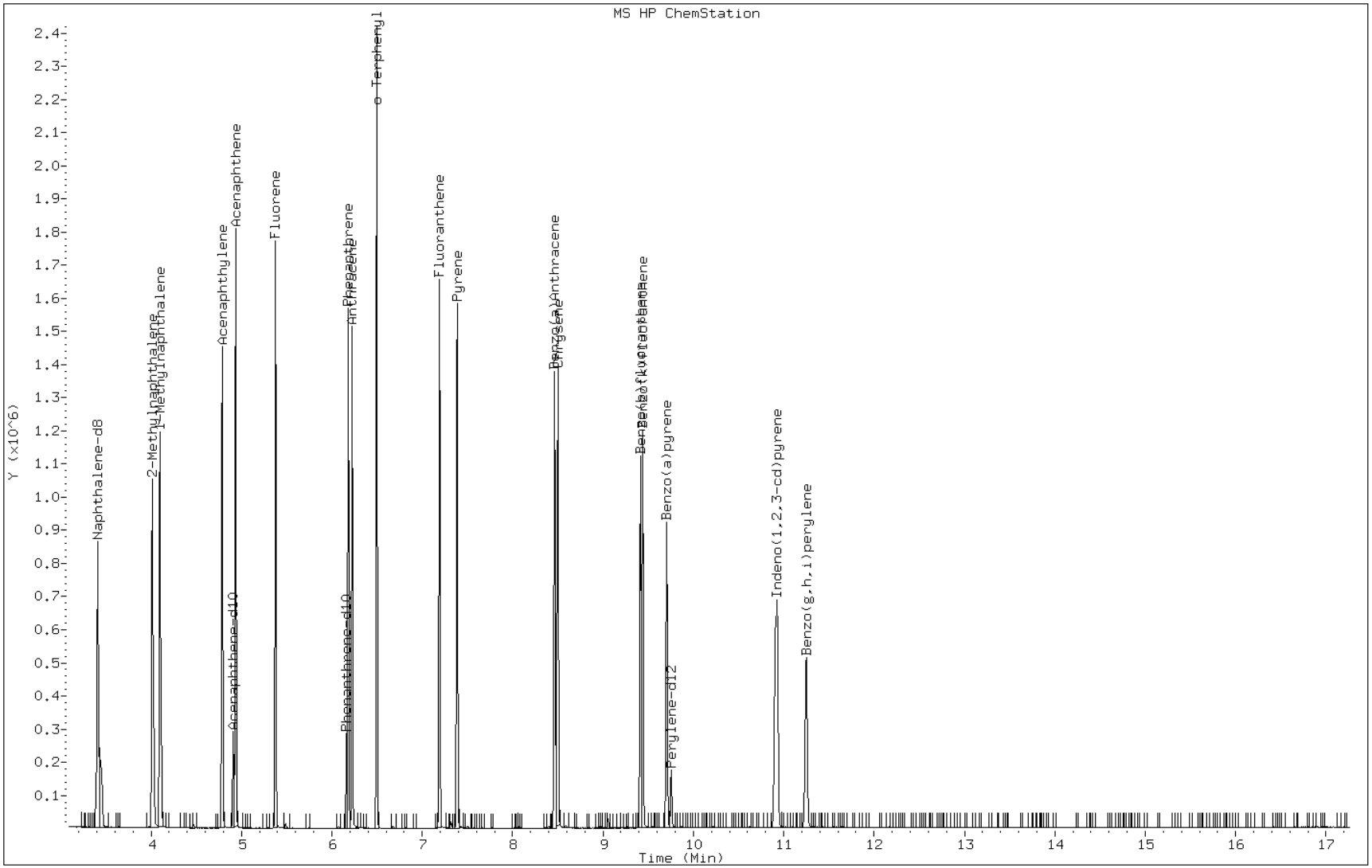
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.392	3.392	(1.000)	111940	2.00000	
2 Naphthalene	128	3.408	3.408	(1.005)	655103	10.0000	9.93
3 2-Methylnaphthalene	142	4.012	4.012	(1.183)	408563	10.0000	9.92
4 1-Methylnaphthalene	142	4.098	4.098	(1.208)	421464	10.0000	9.96
6 Acenaphthylene	152	4.788	4.788	(0.975)	687669	10.0000	10.00
* 5 Acenaphthene-d10	164	4.911	4.911	(1.000)	68319	2.00000	
7 Acenaphthene	154	4.937	4.937	(1.005)	385270	10.0000	9.85
8 Fluorene	166	5.376	5.376	(1.095)	453990	10.0000	9.99
* 9 Phenanthrene-d10	188	6.162	6.162	(1.000)	102420	2.00000	
10 Phenanthrene	178	6.184	6.184	(1.003)	598224	10.0000	10.16
11 Anthracene	178	6.227	6.227	(1.010)	579984	10.0000	10.16
$ 15 o-Terphenyl	230	6.494	6.494	(0.766)	408476	10.0000	9.65
12 Fluoranthene	202	7.189	7.189	(1.167)	688607	10.0000	10.09
14 Pyrene	202	7.387	7.387	(0.872)	700800	10.0000	9.66
16 Benzo(a)Anthracene	228	8.468	8.468	(0.999)	527993	10.0000	9.88
* 13 Chrysene-d12	240	8.473	8.473	(1.000)	82382	2.00000	
17 Chrysene	228	8.500	8.500	(1.003)	508638	10.0000	9.89
19 Benzo(b)fluoranthene	252	9.414	9.414	(0.965)	506230	10.0000	9.70
20 Benzo(k)fluoranthene	252	9.441	9.441	(0.968)	496957	10.0000	9.43
21 Benzo(a)pyrene	252	9.708	9.708	(0.995)	432693	10.0000	9.91
* 18 Perylene-d12	264	9.757	9.757	(1.000)	73078	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.907	10.907	(1.287)	463042	10.0000	10.33
23 Dibenzo(a,h)anthracene	278	10.928	10.928	(1.120)	372188	10.0000	10.10
24 Benzo(g,h,i)perylene	276	11.249	11.249	(1.153)	382257	10.0000	10.05

Data File: yl2107q.d

Date: 21-DEC-2012 11:37

Client ID: Instrument: MSY5975.i

Sample Info: IC-2897218; LLPAH6 Operator: VHB



TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y122112.b/yl2108q.d
Lab Smp Id: IC-2897219; LLPAH5
Inj Date : 21-DEC-2012 11:59
Operator : VHB Inst ID: MSY5975.i
Smp Info : IC-2897219; LLPAH5
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y122112.b/Y-b8270CLLPAH-m.m
Meth Date : 21-Dec-2012 12:14 chemist Quant Type: ISTD
Cal Date : 21-DEC-2012 11:59 Cal File: yl2108q.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

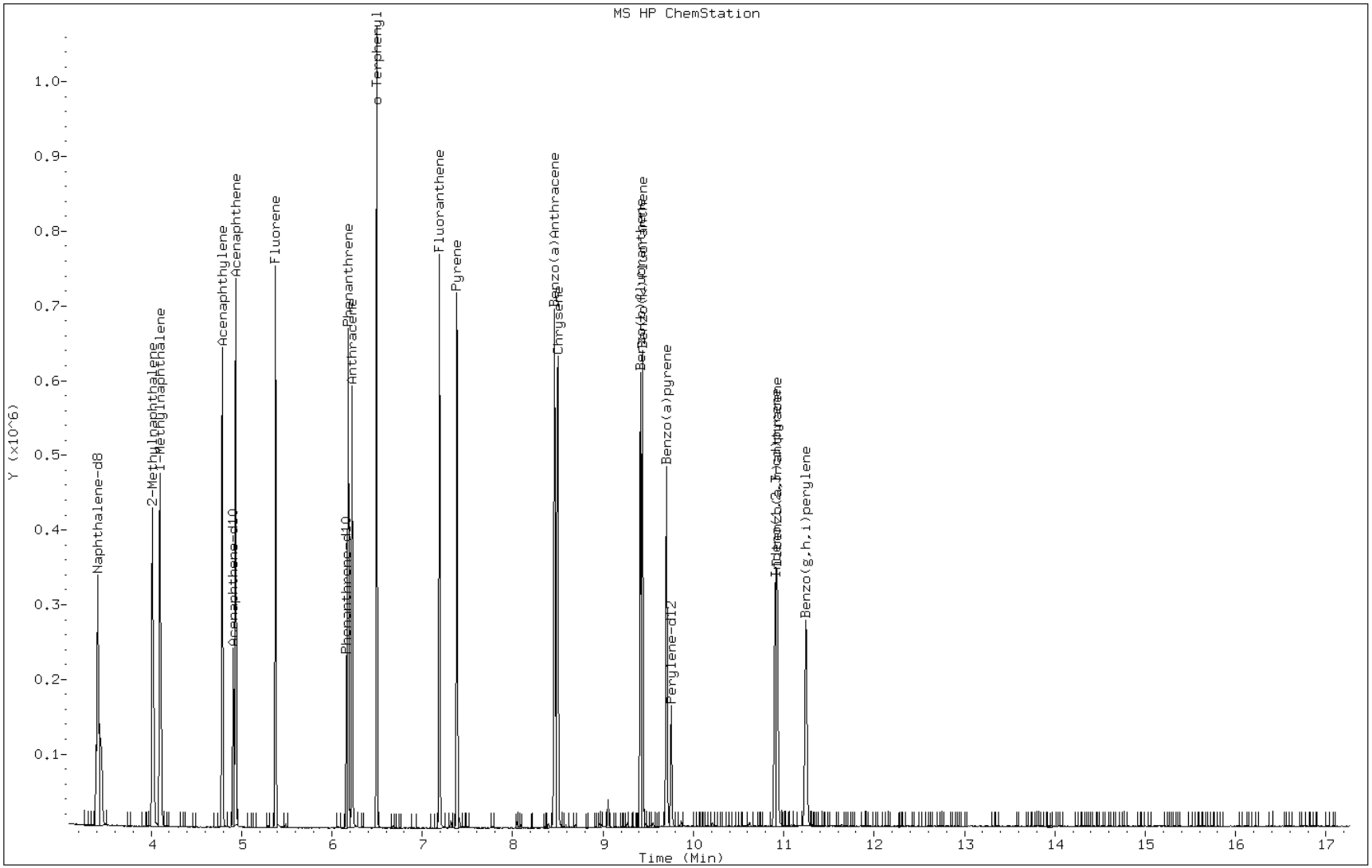
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.392	3.392	(1.000)	92818	2.00000	
	2 Naphthalene	128	3.408	3.408	(1.005)	285517	5.00000	5.14
	3 2-Methylnaphthalene	142	4.012	4.012	(1.183)	176944	5.00000	5.12
	4 1-Methylnaphthalene	142	4.098	4.098	(1.208)	184595	5.00000	5.17
	6 Acenaphthylene	152	4.788	4.788	(0.975)	297037	5.00000	5.25
*	5 Acenaphthene-d10	164	4.911	4.911	(1.000)	54678	2.00000	
	7 Acenaphthene	154	4.937	4.937	(1.005)	168710	5.00000	5.25
	8 Fluorene	166	5.376	5.376	(1.095)	195748	5.00000	5.25
*	9 Phenanthrene-d10	188	6.162	6.162	(1.000)	83324	2.00000	
	10 Phenanthrene	178	6.184	6.184	(1.003)	263106	5.00000	5.32
	11 Anthracene	178	6.226	6.226	(1.010)	255464	5.00000	5.32
$	15 o-Terphenyl	230	6.494	6.494	(0.766)	179634	5.00000	4.90
	12 Fluoranthene	202	7.189	7.189	(1.167)	309103	5.00000	5.36
	14 Pyrene	202	7.382	7.382	(0.871)	320036	5.00000	5.03
	16 Benzo(a)Anthracene	228	8.467	8.467	(0.999)	257391	5.00000	5.32
*	13 Chrysene-d12	240	8.473	8.473	(1.000)	72089	2.00000	
	17 Chrysene	228	8.500	8.500	(1.003)	251185	5.00000	5.37
	19 Benzo(b)fluoranthene	252	9.414	9.414	(0.965)	264968	5.00000	5.38
	20 Benzo(k)fluoranthene	252	9.436	9.436	(0.967)	245237	5.00000	5.09
	21 Benzo(a)pyrene	252	9.703	9.703	(0.995)	220028	5.00000	5.36
*	18 Perylene-d12	264	9.757	9.757	(1.000)	66243	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	10.906	10.906	(1.287)	246836	5.00000	5.79
	23 Dibenzo(a,h)anthracene	278	10.928	10.928	(1.120)	199440	5.00000	5.61
	24 Benzo(g,h,i)perylene	276	11.243	11.243	(1.152)	204002	5.00000	5.57

Data File: yl2108q.d

Date: 21-DEC-2012 11:59

Client ID: Instrument: MSY5975.i

Sample Info: IC-2897219; LLPAH5 Operator: VHB



TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y122112.b/yl2109q.d
Lab Smp Id: IC-2897222; LLPAH3
Inj Date : 21-DEC-2012 12:22
Operator : VHB Inst ID: MSY5975.i
Smp Info : IC-2897222; LLPAH3
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y122112.b/Y-b8270CLLPAH-m.m
Meth Date : 21-Dec-2012 12:42 chemist Quant Type: ISTD
Cal Date : 21-DEC-2012 12:22 Cal File: yl2109q.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

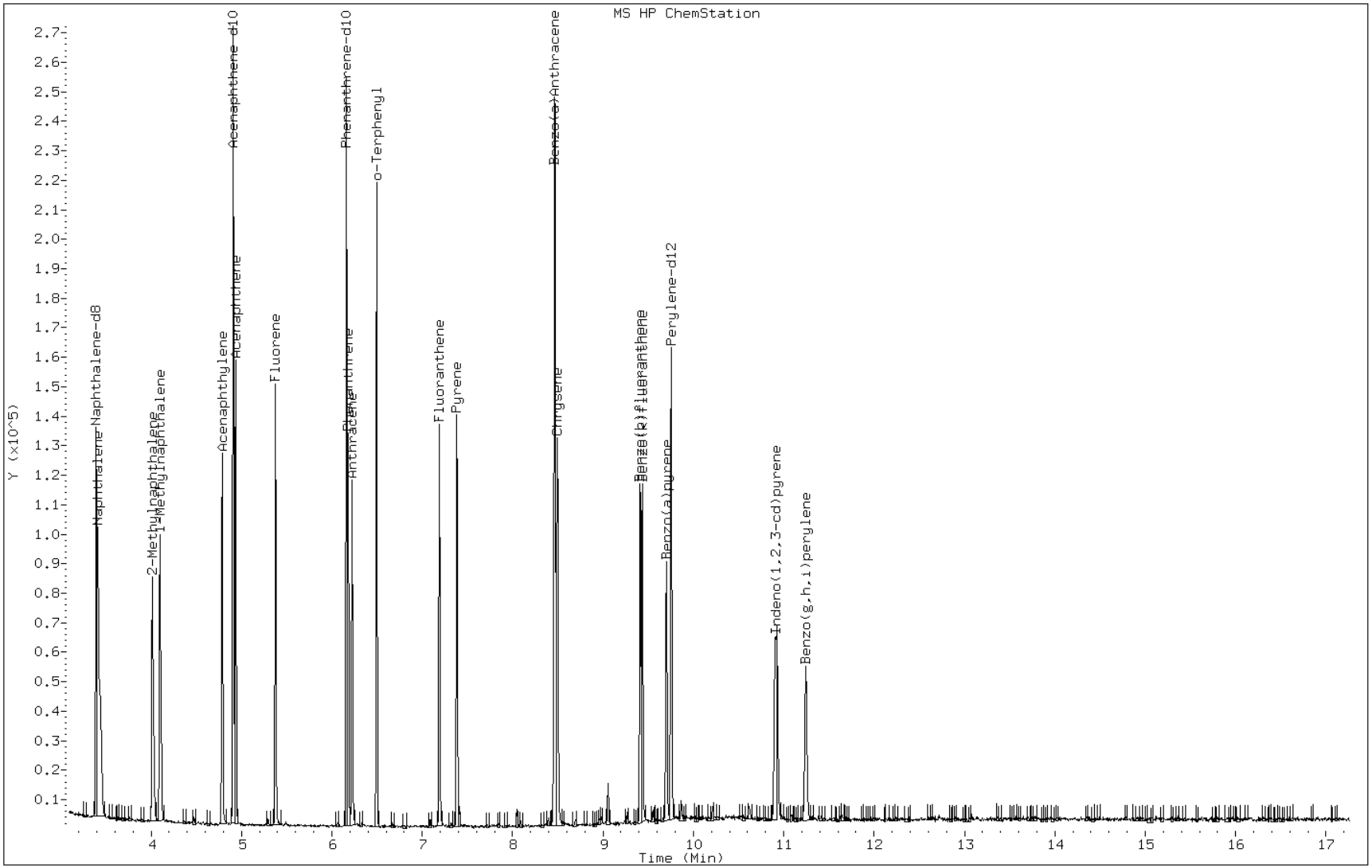
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.392	3.392	(1.000)	103455	2.00000	
	2 Naphthalene	128	3.408	3.408	(1.005)	58580	1.00000	0.95
	3 2-Methylnaphthalene	142	4.012	4.012	(1.183)	36650	1.00000	0.96
	4 1-Methylnaphthalene	142	4.098	4.098	(1.208)	38990	1.00000	0.98
	6 Acenaphthylene	152	4.788	4.788	(0.975)	60647	1.00000	0.96
*	5 Acenaphthene-d10	164	4.911	4.911	(1.000)	61643	2.00000	
	7 Acenaphthene	154	4.938	4.938	(1.005)	36185	1.00000	0.99
	8 Fluorene	166	5.376	5.376	(1.095)	39852	1.00000	0.96
*	9 Phenanthrene-d10	188	6.162	6.162	(1.000)	89960	2.00000	
	10 Phenanthrene	178	6.178	6.178	(1.003)	53096	1.00000	0.99
	11 Anthracene	178	6.227	6.227	(1.010)	49878	1.00000	0.97
$	15 o-Terphenyl	230	6.494	6.494	(0.766)	37029	1.00000	0.99
	12 Fluoranthene	202	7.189	7.189	(1.167)	61851	1.00000	0.99
	14 Pyrene	202	7.382	7.382	(0.871)	63932	1.00000	0.98
	16 Benzo(a)Anthracene	228	8.462	8.462	(0.999)	51093	1.00000	1.02
*	13 Chrysene-d12	240	8.473	8.473	(1.000)	73697	2.00000	
	17 Chrysene	228	8.494	8.494	(1.003)	52203	1.00000	1.06
	19 Benzo(b)fluoranthene	252	9.414	9.414	(0.965)	57417	1.00000	1.11
	20 Benzo(k)fluoranthene	252	9.436	9.436	(0.967)	54714	1.00000	1.09
	21 Benzo(a)pyrene	252	9.703	9.703	(0.995)	42487	1.00000	1.02
*	18 Perylene-d12	264	9.757	9.757	(1.000)	66703	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	10.901	10.901	(1.287)	46096	1.00000	1.04
	23 Dibenzo(a,h)anthracene	278	10.928	10.928	(1.120)	39799	1.00000	1.08
	24 Benzo(g,h,i)perylene	276	11.244	11.244	(1.152)	40323	1.00000	1.06

Data File: yl2109q.d

Date: 21-DEC-2012 12:22

Client ID: Instrument: MSY5975.i

Sample Info: IC-2897222; LLPAH3 Operator: VHB



TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y122112.b/yl2110q.d
Lab Smp Id: IC-2898498; LLPAH2
Inj Date : 21-DEC-2012 12:44
Operator : VHB Inst ID: MSY5975.i
Smp Info : IC-2898498; LLPAH2
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y122112.b/Y-b8270CLLPAH-m.m
Meth Date : 21-Dec-2012 13:04 chemist Quant Type: ISTD
Cal Date : 21-DEC-2012 12:44 Cal File: yl2110q.d
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

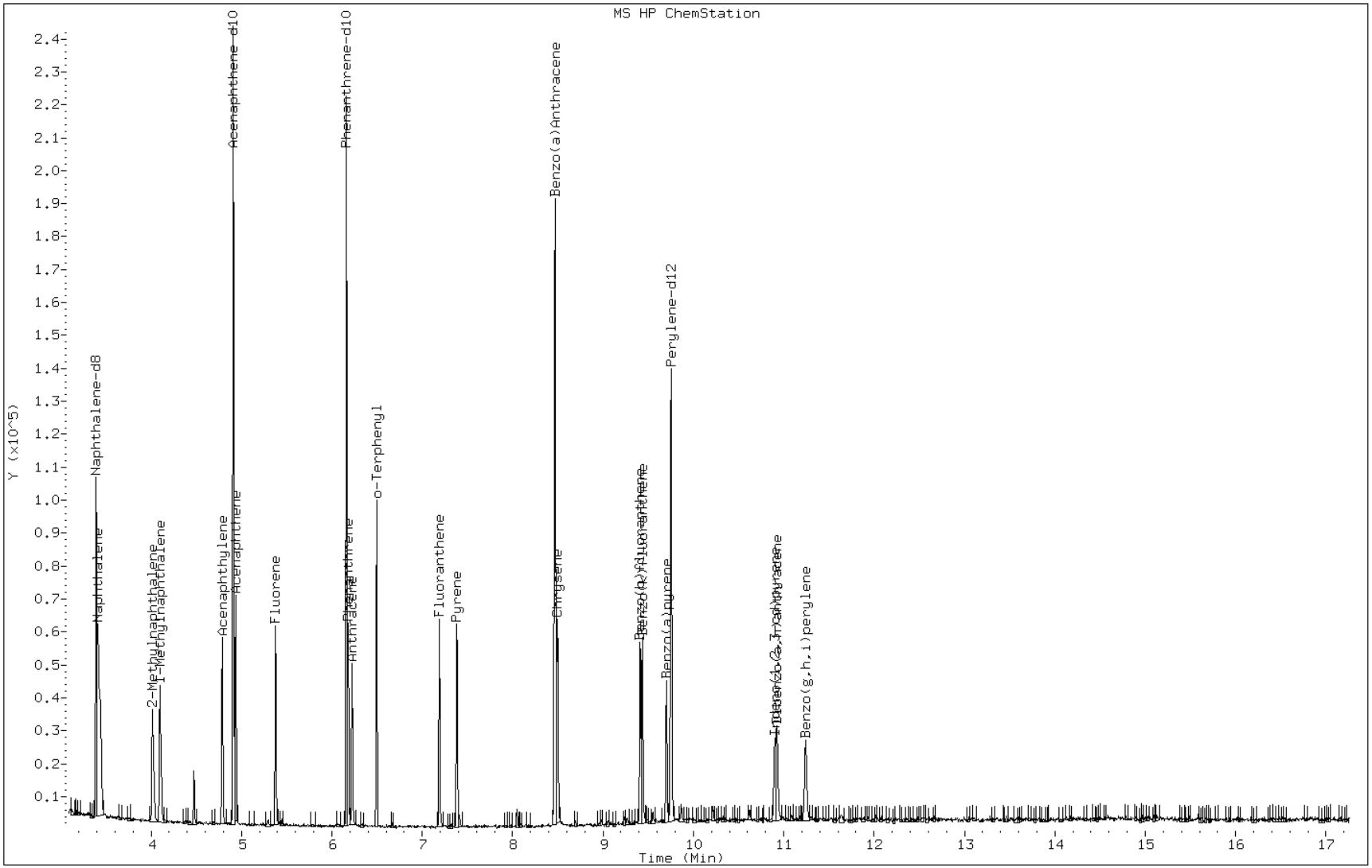
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.392	3.392	(1.000)	94162	2.00000	
	2 Naphthalene	128	3.413	3.413	(1.006)	26615	0.50000	0.48
	3 2-Methylnaphthalene	142	4.012	4.012	(1.183)	16956	0.50000	0.49
	4 1-Methylnaphthalene	142	4.098	4.098	(1.208)	17483	0.50000	0.48
	6 Acenaphthylene	152	4.788	4.788	(0.975)	27524	0.50000	0.49
*	5 Acenaphthene-d10	164	4.911	4.911	(1.000)	54106	2.00000	
	7 Acenaphthene	154	4.938	4.938	(1.005)	15814	0.50000	0.49
	8 Fluorene	166	5.376	5.376	(1.095)	18543	0.50000	0.50
*	9 Phenanthrene-d10	188	6.162	6.162	(1.000)	79146	2.00000	
	10 Phenanthrene	178	6.184	6.184	(1.003)	24440	0.50000	0.51
	11 Anthracene	178	6.227	6.227	(1.010)	21776	0.50000	0.48
$	15 o-Terphenyl	230	6.494	6.494	(0.766)	18185	0.50000	0.52
	12 Fluoranthene	202	7.189	7.189	(1.167)	27335	0.50000	0.50
	14 Pyrene	202	7.382	7.382	(0.871)	29581	0.50000	0.50
	16 Benzo(a)Anthracene	228	8.462	8.462	(0.999)	23292	0.50000	0.51
*	13 Chrysene-d12	240	8.473	8.473	(1.000)	66828	2.00000	
	17 Chrysene	228	8.494	8.494	(1.003)	26299	0.50000	0.57
	19 Benzo(b)fluoranthene	252	9.409	9.409	(0.964)	27084	0.50000	0.55
	20 Benzo(k)fluoranthene	252	9.436	9.436	(0.967)	31185	0.50000	0.63
	21 Benzo(a)pyrene	252	9.703	9.703	(0.995)	21221	0.50000	0.54
*	18 Perylene-d12	264	9.757	9.757	(1.000)	61228	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	10.901	10.901	(1.287)	22339	0.50000	0.54
	23 Dibenzo(a,h)anthracene	278	10.928	10.928	(1.120)	19225	0.50000	0.55
	24 Benzo(g,h,i)perylene	276	11.244	11.244	(1.152)	20311	0.50000	0.56

Data File: yl2110q.d

Date: 21-DEC-2012 12:44

Client ID: Instrument: MSY5975.i

Sample Info: IC-2898498; LLPAH2 Operator: VHB



TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y122112.b/yl2111q.d
Lab Smp Id: IC-2898499; LLPAH1
Inj Date : 21-DEC-2012 13:07
Operator : VHB Inst ID: MSY5975.i
Smp Info : IC-2898499; LLPAH1
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y122112.b/Y-b8270CLLPAH-m.m
Meth Date : 21-Dec-2012 13:24 chemist Quant Type: ISTD
Cal Date : 21-DEC-2012 13:07 Cal File: yl2111q.d
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.392	3.392	(1.000)	89400	2.00000	
	2 Naphthalene	128	3.413	3.413	(1.006)	10928	0.20000	0.20
	3 2-Methylnaphthalene	142	4.012	4.012	(1.183)	6807	0.20000	0.20
	4 1-Methylnaphthalene	142	4.098	4.098	(1.208)	7680	0.20000	0.22
	6 Acenaphthylene	152	4.788	4.788	(0.975)	11991	0.20000	0.21
*	5 Acenaphthene-d10	164	4.911	4.911	(1.000)	53010	2.00000	
	7 Acenaphthene	154	4.937	4.937	(1.005)	8080	0.20000	0.24
	8 Fluorene	166	5.376	5.376	(1.095)	8214	0.20000	0.22
*	9 Phenanthrene-d10	188	6.162	6.162	(1.000)	78461	2.00000	
	10 Phenanthrene	178	6.184	6.184	(1.003)	11432	0.20000	0.23
	11 Anthracene	178	6.227	6.227	(1.010)	11365	0.20000	0.24
$	15 o-Terphenyl	230	6.494	6.494	(0.766)	8370	0.20000	0.23(T)
	12 Fluoranthene	202	7.189	7.189	(1.167)	13975	0.20000	0.24
	14 Pyrene	202	7.382	7.382	(0.871)	14092	0.20000	0.23
	16 Benzo(a)Anthracene	228	8.462	8.462	(0.999)	11775	0.20000	0.25
*	13 Chrysene-d12	240	8.473	8.473	(1.000)	65291	2.00000	
	17 Chrysene	228	8.500	8.500	(1.003)	12618	0.20000	0.26
	19 Benzo(b)fluoranthene	252	9.414	9.414	(0.965)	14066	0.20000	0.26
	20 Benzo(k)fluoranthene	252	9.436	9.436	(0.967)	12592	0.20000	0.23
	21 Benzo(a)pyrene	252	9.703	9.703	(0.995)	11131	0.20000	0.26
*	18 Perylene-d12	264	9.757	9.757	(1.000)	62887	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	10.907	10.907	(1.287)	11792	0.20000	0.27
	23 Dibenzo(a,h)anthracene	278	10.928	10.928	(1.120)	10530	0.20000	0.27
	24 Benzo(g,h,i)perylene	276	11.244	11.244	(1.152)	10590	0.20000	0.26

QC Flag Legend

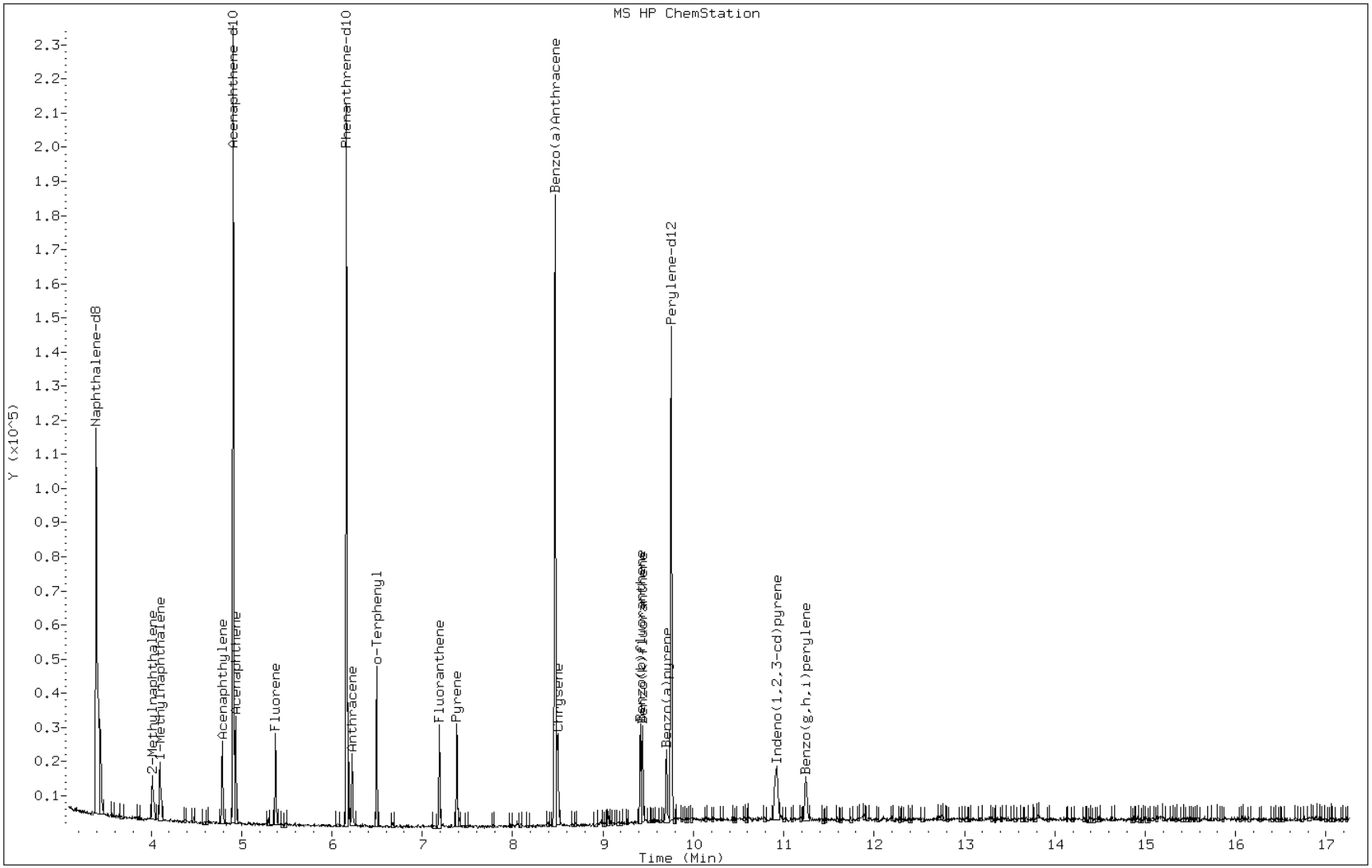
T - Target compound detected outside RT window.

Data File: yl2111q.d

Date: 21-DEC-2012 13:07

Client ID: Instrument: MSY5975.i

Sample Info: IC-2898499; LLPAH1 Operator: VHB



TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y122112.b/yl2112q.d
Lab Smp Id: IC-2897220; LLPAH4
Inj Date : 21-DEC-2012 13:30
Operator : VHB Inst ID: MSY5975.i
Smp Info : IC-2897220; LLPAH4
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y122112.b/Y-b8270CLLPAH-m.m
Meth Date : 21-Dec-2012 14:12 chemist Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

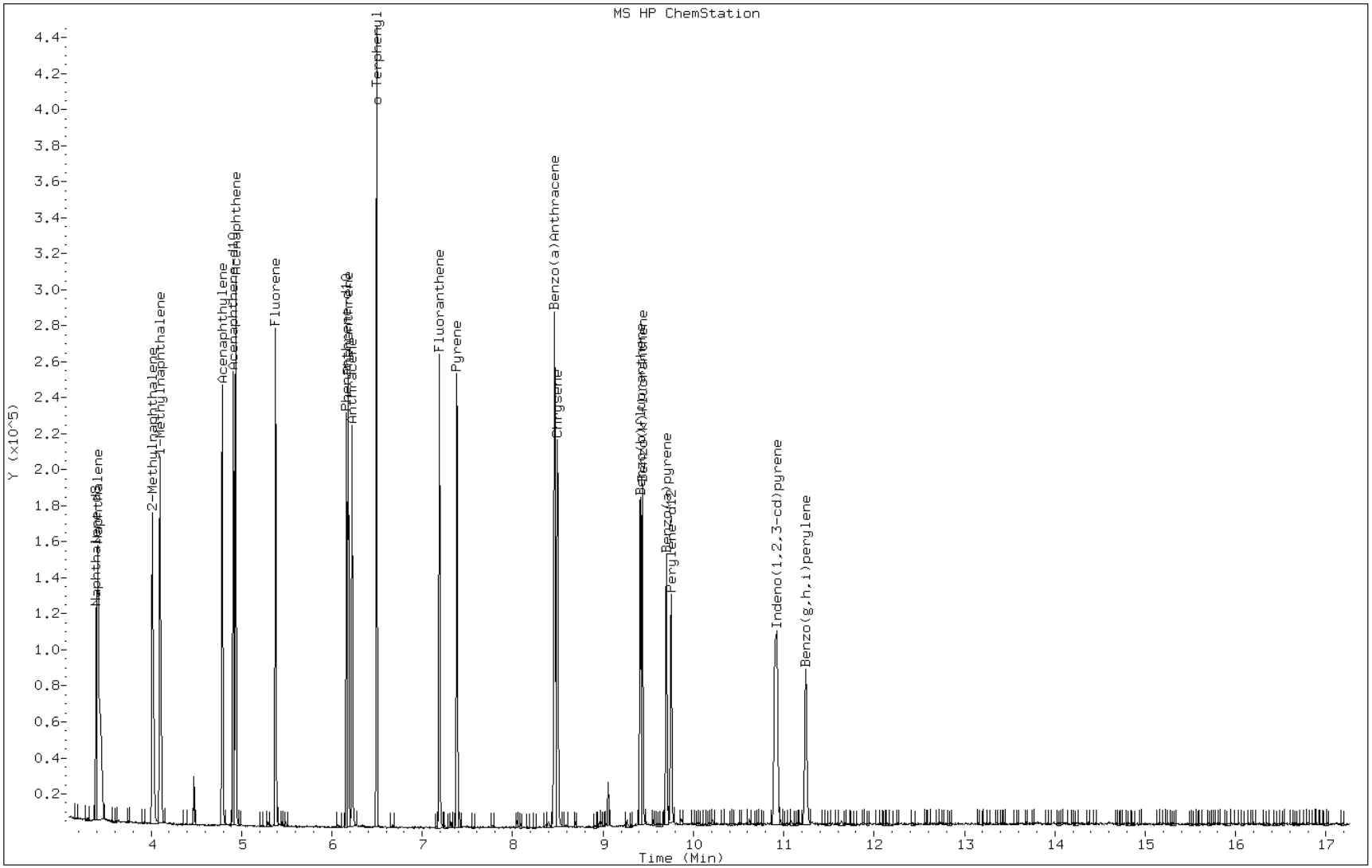
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.392	3.392	(1.000)	97972	2.00000	
2 Naphthalene	128	3.413	3.413	(1.006)	115402	2.00000	1.99
3 2-Methylnaphthalene	142	4.012	4.012	(1.183)	71128	2.00000	1.97
4 1-Methylnaphthalene	142	4.098	4.098	(1.208)	74017	2.00000	1.95
6 Acenaphthylene	152	4.788	4.788	(0.975)	114203	2.00000	1.93
* 5 Acenaphthene-d10	164	4.911	4.911	(1.000)	57081	2.00000	
7 Acenaphthene	154	4.937	4.937	(1.005)	67757	2.00000	1.93
8 Fluorene	166	5.376	5.376	(1.095)	74992	2.00000	1.91
* 9 Phenanthrene-d10	188	6.162	6.162	(1.000)	82260	2.00000	
10 Phenanthrene	178	6.184	6.184	(1.003)	98330	2.00000	1.94
11 Anthracene	178	6.226	6.226	(1.010)	93551	2.00000	1.93
$ 15 o-Terphenyl	230	6.494	6.494	(0.766)	73277	2.00000	2.09
12 Fluoranthene	202	7.189	7.189	(1.167)	112469	2.00000	1.90
14 Pyrene	202	7.382	7.382	(0.871)	112506	2.00000	1.91
16 Benzo(a)Anthracene	228	8.462	8.462	(0.999)	83057	2.00000	1.80
* 13 Chrysene-d12	240	8.473	8.473	(1.000)	64790	2.00000	
17 Chrysene	228	8.494	8.494	(1.003)	86980	2.00000	2.12
19 Benzo(b)fluoranthene	252	9.414	9.414	(0.965)	92199	2.00000	2.15
20 Benzo(k)fluoranthene	252	9.436	9.436	(0.967)	84319	2.00000	1.93
21 Benzo(a)pyrene	252	9.703	9.703	(0.995)	70763	2.00000	2.00
* 18 Perylene-d12	264	9.757	9.757	(1.000)	58444	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.906	10.906	(1.287)	80004	2.00000	2.27
23 Dibenzo(a,h)anthracene	278	10.928	10.928	(1.120)	64729	2.00000	2.18
24 Benzo(g,h,i)perylene	276	11.243	11.243	(1.152)	67846	2.00000	2.21

Data File: yl2112q.d

Date: 21-DEC-2012 13:30

Client ID: Instrument: MSY5975.i

Sample Info: IC-2897220; LLPAH4 Operator: VHB



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Lab Sample ID: CCVIS 680-261526/2 Calibration Date: 12/31/2012 12:44

Instrument ID: MSY Calib Start Date: 12/21/2012 11:14

GC Column: HP-5MS ID: 0.25(mm) Calib End Date: 12/21/2012 13:30

Lab File ID: yl3102q.d Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.179	1.200		6.70	2.00	1.8	20.0
2-Methylnaphthalene	Ave	0.7356	0.7657		6.70	2.00	4.1	20.0
1-Methylnaphthalene	Ave	0.7741	0.7792		6.70	2.00	0.7	20.0
Acenaphthylene	Ave	2.067	2.068		6.70	2.00	0.0	20.0
Acenaphthene	Ave	1.225	1.229		6.70	2.00	0.3	20.0
Fluorene	Ave	1.374	1.396		6.70	2.00	1.6	20.0
Phenanthrene	Ave	1.232	1.227		6.70	2.00	-0.4	20.0
Anthracene	Ave	1.178	1.314		6.70	2.00	11.5	20.0
Fluoranthene	Ave	1.436	1.312		6.70	2.00	-8.6	20.0
Pyrene	Ave	1.815	1.829		6.70	2.00	0.8	20.0
Benzo[a]anthracene	Ave	1.419	1.284		6.70	2.00	-9.5	20.0
Chrysene	LinF	1.442	1.235		6.70	2.00	-2.3	20.0
Benzo[b]fluoranthene	LinF	1.680	1.557		6.70	2.00	6.4	20.0
Benzo[k]fluoranthene	LinF	1.641	1.434		6.70	2.00	-3.9	20.0
Benzo[a]pyrene	LinF	1.337	1.193		1.98	2.00	-1.2	20.0
Indeno[1,2,3-cd]pyrene	LinF	1.311	0.9078		6.70	2.00	-16.4	20.0
Dibenz(a,h)anthracene	LinF	1.207	0.9020		6.70	2.00	-11.1	20.0
Benzo[g,h,i]perylene	LinF	1.242	0.9539		6.70	2.00	-9.1	20.0
o-Terphenyl	Ave	1.080	1.116		2.07	2.00	3.4	20.0

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3102q.d
Lab Smp Id: CCVIS-2897220; LLP
Inj Date : 31-DEC-2012 12:44
Operator : VHB Inst ID: MSY5975.i
Smp Info : CCVIS-2897220; LLPAH
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

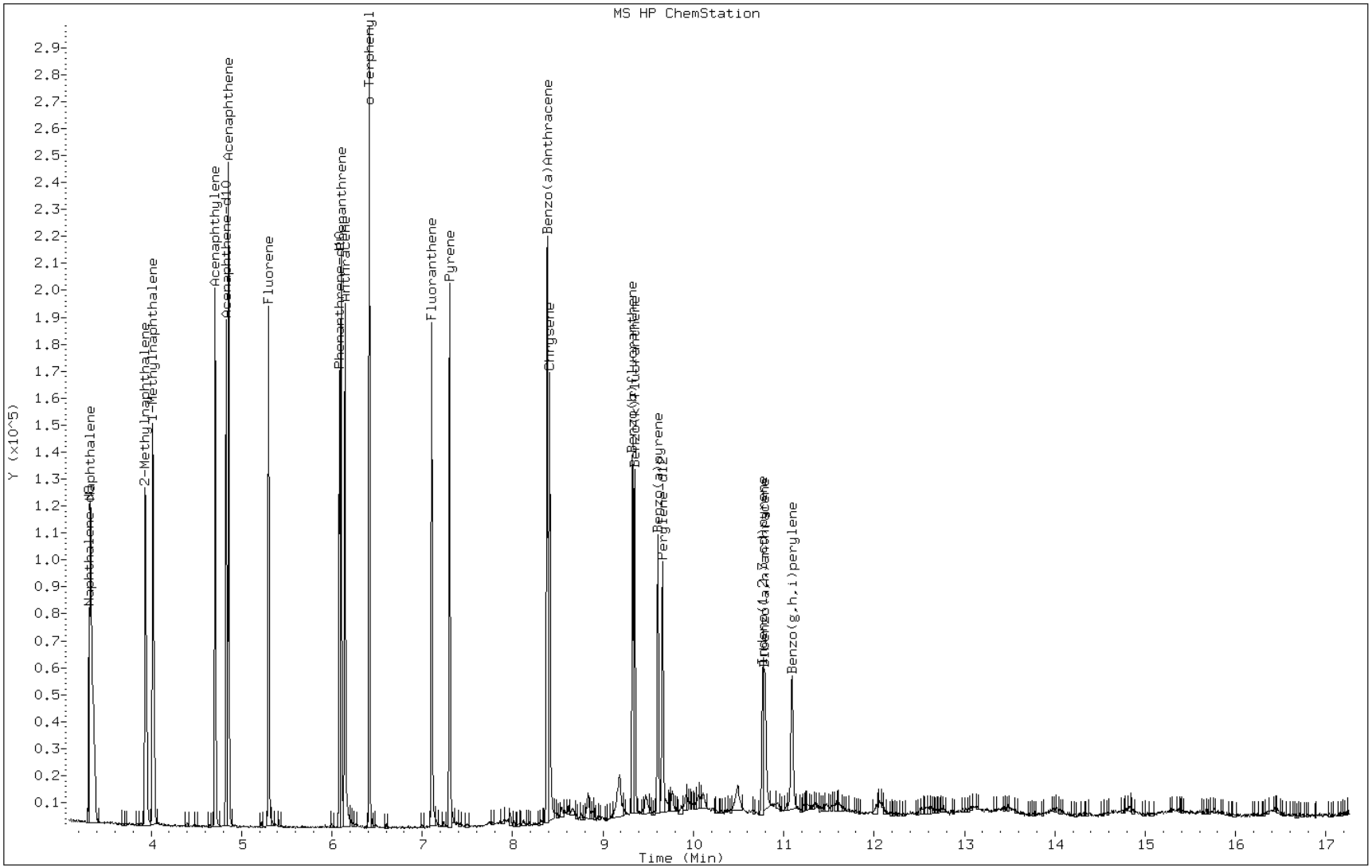
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.312	3.312	(1.000)	74589	2.00000	
	2 Naphthalene	128	3.333	3.333	(1.006)	89474	2.00000	2.03
	3 2-Methylnaphthalene	142	3.932	3.932	(1.187)	57114	2.00000	2.08
	4 1-Methylnaphthalene	142	4.018	4.018	(1.213)	58118	2.00000	2.01
	6 Acenaphthylene	152	4.708	4.708	(0.975)	91770	2.00000	2.00
*	5 Acenaphthene-d10	164	4.831	4.831	(1.000)	44372	2.00000	
	7 Acenaphthene	154	4.857	4.857	(1.006)	54537	2.00000	2.00
	8 Fluorene	166	5.296	5.296	(1.096)	61948	2.00000	2.03
*	9 Phenanthrene-d10	188	6.082	6.082	(1.000)	66572	2.00000	
	10 Phenanthrene	178	6.104	6.104	(1.004)	81667	2.00000	1.99
	11 Anthracene	178	6.146	6.146	(1.011)	87507	2.00000	2.23
$	15 o-Terphenyl	230	6.419	6.419	(0.765)	55895	2.00000	2.06
	12 Fluoranthene	202	7.109	7.109	(1.169)	87363	2.00000	1.82
	14 Pyrene	202	7.302	7.302	(0.871)	91609	2.00000	2.01
	16 Benzo(a)Anthracene	228	8.382	8.382	(0.999)	64291	2.00000	1.80
*	13 Chrysene-d12	240	8.387	8.387	(1.000)	50078	2.00000	
	17 Chrysene	228	8.414	8.414	(1.003)	61830	2.00000	1.95
	19 Benzo(b)fluoranthene	252	9.323	9.323	(0.965)	64490	2.00000	2.12
	20 Benzo(k)fluoranthene	252	9.350	9.350	(0.968)	59388	2.00000	1.92
	21 Benzo(a)pyrene	252	9.607	9.607	(0.994)	49387	2.00000	1.97
*	18 Perylene-d12	264	9.660	9.660	(1.000)	41407	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.284)	45462	2.00000	1.67
	23 Dibenzo(a,h)anthracene	278	10.794	10.794	(1.117)	37348	2.00000	1.77
	24 Benzo(g,h,i)perylene	276	11.094	11.094	(1.148)	39496	2.00000	1.81

Data File: yl3102q.d

Date: 31-DEC-2012 12:44

Client ID: Instrument: MSY5975.i

Sample Info: CCVIS-2897220; LLPAH Operator: VHB



TESTAMERICA SAVANNAH

Data file : /chem/SM/MSY5975.i/1y122112.b/yl1305t.d
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-DEC-2012 10:58
Operator : VHB Inst ID: MSY5975.i
Smp Info : DFTPP-288302; LLPAH
Misc Info :
Comment :
Method : /chem/SM/MSY5975.i/1y122112.b/Y-dftppPAHLL-m.m
Meth Date : 26-Nov-2012 08:37 gillinsl Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

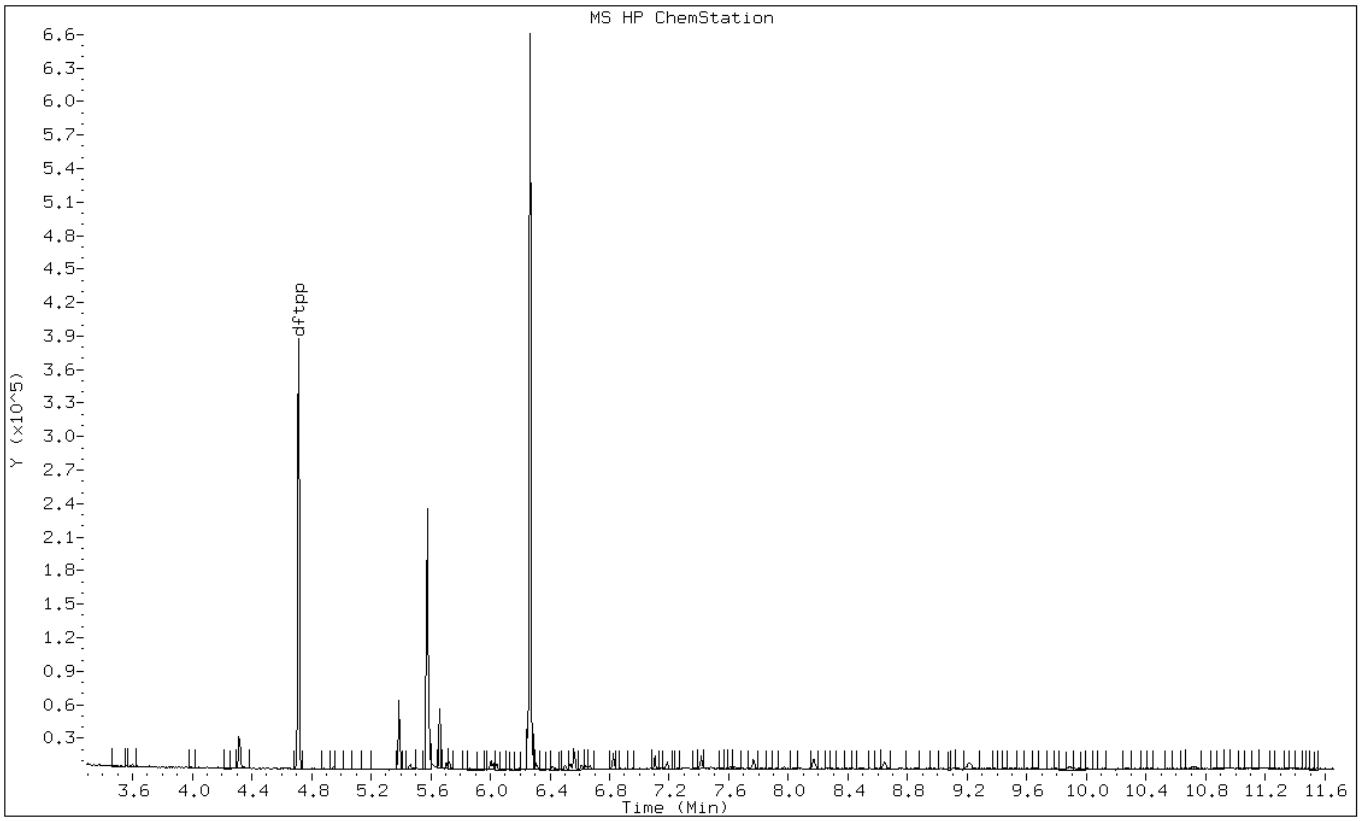
RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp					CAS #: 5074-71-5		
4.715	5.785 (0.000)	442	38464			0.00- 100.00	100.00
4.715	5.785 (0.000)	51	7504			10.00- 80.00	19.51
4.715	5.785 (0.000)	68	156			0.00- 2.00	1.97
4.715	5.785 (0.000)	69	7933			0.00- 0.00	20.62
4.715	5.785 (0.000)	70	106			0.00- 2.00	1.34
4.715	5.785 (0.000)	127	12167			10.00- 80.00	37.69
4.715	5.785 (0.000)	197	320			0.00- 2.00	0.99
4.715	5.785 (0.000)	198	32286			50.00- 0.00	83.94
4.715	5.785 (0.000)	199	2023			5.00- 9.00	6.27
4.715	5.785 (0.000)	275	8550			10.00- 60.00	22.23
4.715	5.785 (0.000)	365	1161			1.00- 0.00	3.02
4.715	5.785 (0.000)	441	5558			0.00- 100.00	73.85
4.715	5.785 (0.000)	443	7526			15.00- 24.00	19.57

Data File: yl2105t.d

Date: 21-DEC-2012 10:58

Client ID: DFTPP Instrument: MSY5975.i

Sample Info: DFTPP-288302; LLPAH Operator: VHB



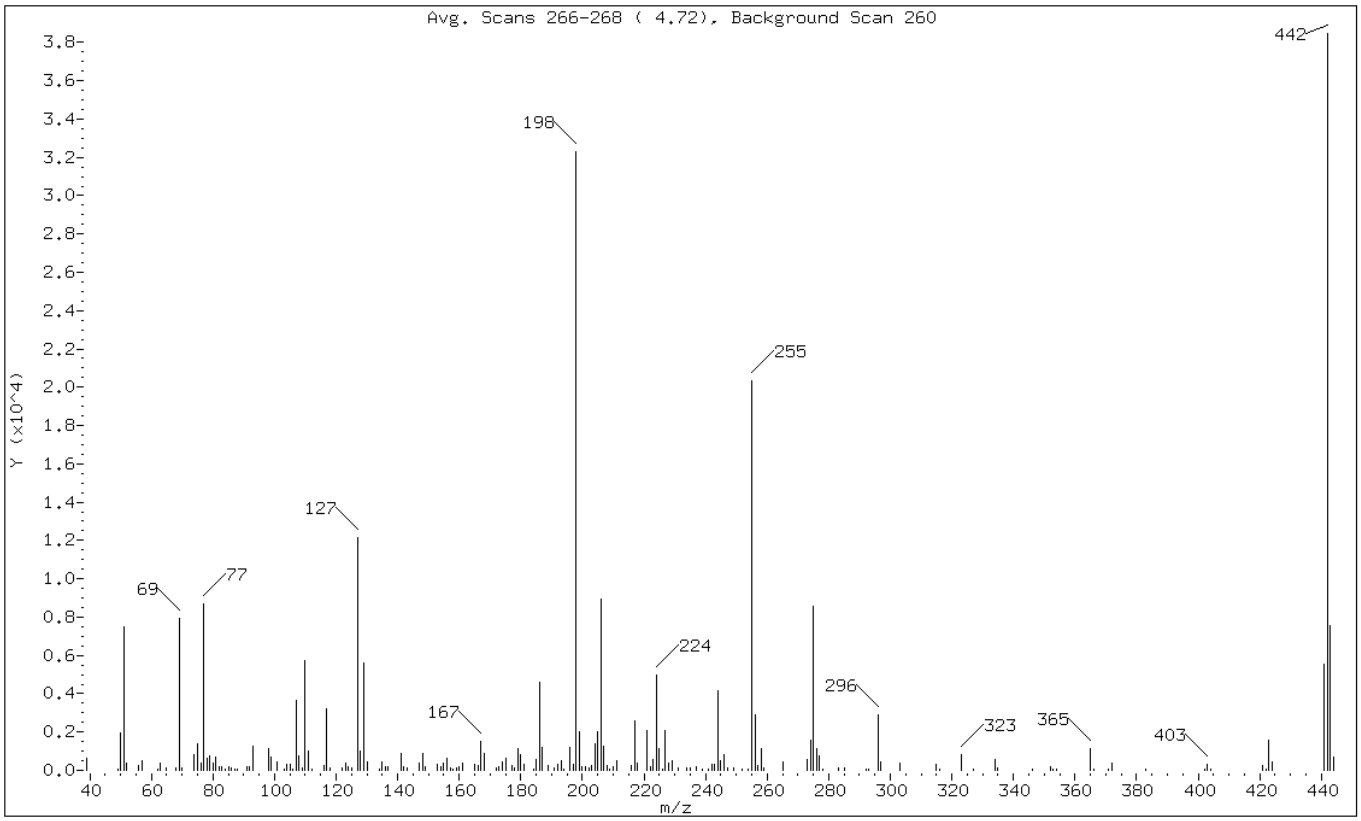
Data File: yl2105t.d

Date: 21-DEC-2012 10:58

Client ID: DFTPP Instrument: MSY5975.i

Sample Info: DFTPP-288302; LLPAH Operator: VHB

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
442	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 442	19.51
68	Less than 2.00% of mass 69	0.41 (1.97)
69	Mass 69 relative abundance	20.62
70	Less than 2.00% of mass 69	0.28 (1.34)
127	10.00 - 80.00% of mass 198	31.63 (37.69)
197	Less than 2.00% of mass 198	0.83 (0.99)
198	Greater than 50.00% of mass 442	83.94
199	5.00 - 9.00% of mass 198	5.26 (6.27)
275	10.00 - 60.00% of mass 442	22.23
365	Greater than 1.00% of mass 442	3.02
441	Less than 100.00% of mass 443	14.45 (73.85)
443	15.00 - 24.00% of mass 442	19.57

Data File: yl2105t.d

Date: 21-DEC-2012 10:58

Client ID: DFTPP Instrument: MSY5975.i

Sample Info: DFTPP-288302; LLPAH Operator: VHB

Data File: /chem/SM/MSY5975.i/1y122112.b/yl2105t.d
Spectrum: Avg. Scans 266-268 (4.72), Background Scan 260
Location of Maximum: 442.00
Number of points: 184

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	621	122.00	146	193.00	502	257.00	231
49.00	65	123.00	376	194.00	70	258.00	1159
50.00	1957	124.00	202	196.00	1225	259.00	156
51.00	7504	125.00	147	197.00	320	265.00	417
52.00	355	127.00	12167	198.00	32280	273.00	552
56.00	239	128.00	1017	199.00	2023	274.00	1552
57.00	481	129.00	5623	200.00	159	275.00	8550
62.00	73	130.00	447	201.00	194	276.00	1109
63.00	352	134.00	53	202.00	96	277.00	739
65.00	147	135.00	460	203.00	229	278.00	86
68.00	156	136.00	187	204.00	1367	283.00	115
69.00	7933	137.00	173	205.00	2024	285.00	127
70.00	106	141.00	857	206.00	8916	292.00	63
74.00	830	142.00	175	207.00	1277	293.00	71
75.00	1406	143.00	101	208.00	234	296.00	2909
76.00	390	147.00	372	209.00	65	297.00	416
77.00	8687	148.00	894	210.00	173	303.00	359
78.00	625	149.00	160	211.00	475	315.00	346
79.00	730	153.00	335	216.00	241	316.00	70
80.00	407	154.00	203	217.00	2570	323.00	842
81.00	685	155.00	353	218.00	387	327.00	63
82.00	180	156.00	609	221.00	2089	334.00	590
83.00	167	157.00	122	222.00	168	335.00	126
84.00	83	158.00	65	223.00	579	346.00	63
85.00	171	159.00	156	224.00	4980	352.00	185
86.00	120	160.00	170	225.00	1148	353.00	73
87.00	50	161.00	349	226.00	67	354.00	72
88.00	52	165.00	285	227.00	2072	365.00	1161
91.00	182	166.00	225	228.00	353	366.00	74
92.00	180	167.00	1506	229.00	475	371.00	55
93.00	1256	168.00	875	231.00	142	372.00	398
98.00	1112	172.00	140	234.00	101	383.00	68
99.00	666	173.00	177	235.00	116	402.00	90
101.00	451	174.00	415	237.00	163	403.00	304
103.00	78	175.00	613	239.00	53	404.00	50
104.00	324	177.00	235	241.00	82	421.00	232
105.00	322	178.00	113	242.00	318	422.00	94
106.00	59	179.00	1102	243.00	295	423.00	1592
107.00	3639	180.00	806	244.00	4159	424.00	413
108.00	727	181.00	337	245.00	519	441.00	5558

109.00	104	184.00	87	246.00	806	442.00	38464
110.00	5751	185.00	538	247.00	115	443.00	7526
111.00	1010	186.00	4616	249.00	130	444.00	692
112.00	62	187.00	1178	252.00	52		
116.00	258	189.00	236	254.00	92		
117.00	3204	191.00	109	255.00	20320		
118.00	156	192.00	302	256.00	2877		

TESTAMERICA SAVANNAH

Data file : /chem/SM/MSY5975.i/1y122812.b/yl3101t.d
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 31-DEC-2012 12:10
Operator : VHB Inst ID: MSY5975.i
Smp Info : DFTPP-2925415 ; LLPAH
Misc Info :
Comment :
Method : /chem/SM/MSY5975.i/1y122812.b/Y-dftppPAHLL-m.m
Meth Date : 26-Nov-2012 08:37 gillinsl Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: savchem1

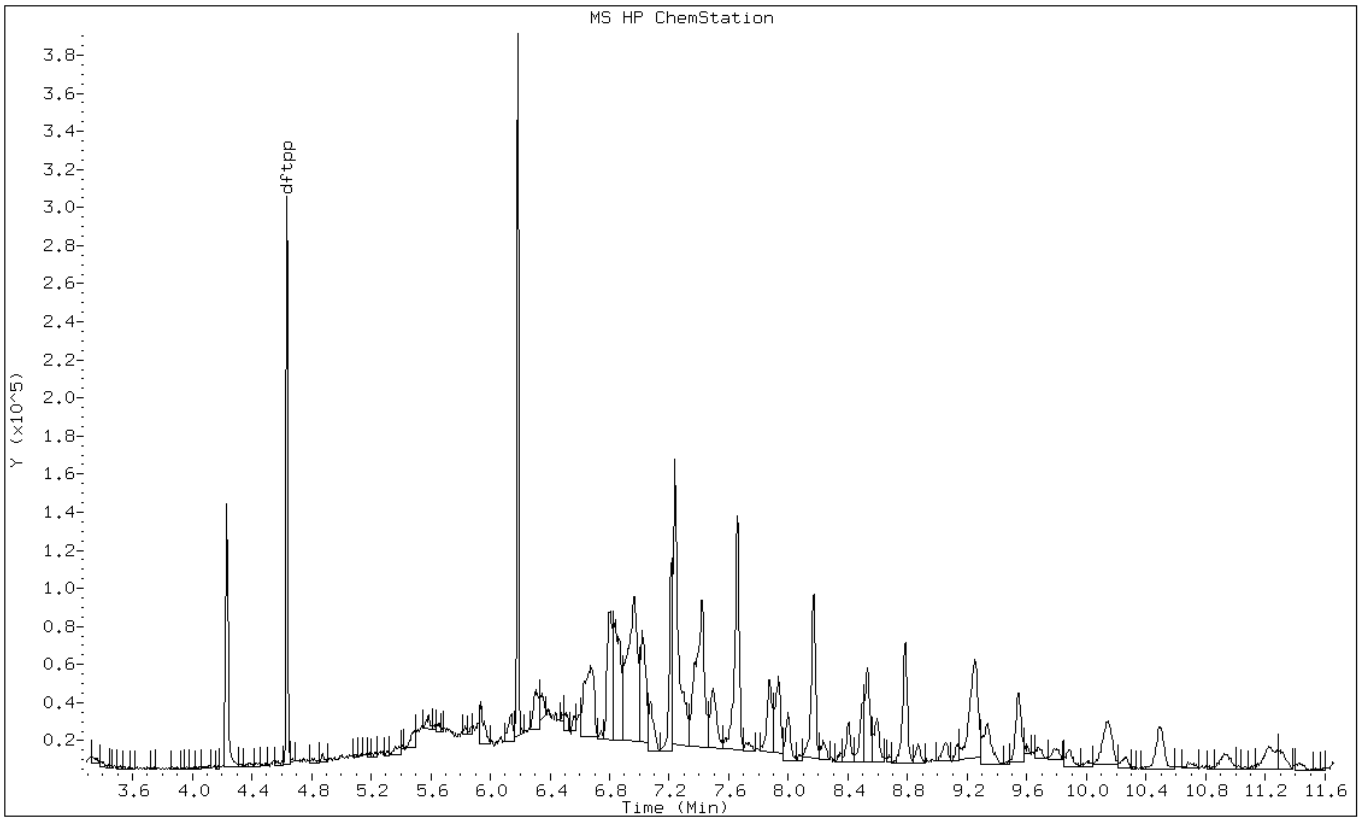
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.635	5.785	(0.000)	442	24562			0.00- 100.00	87.89
4.635	5.785	(0.000)	51	6989			10.00- 80.00	28.45
4.635	5.785	(0.000)	68	0			0.00- 2.00	0.00
4.635	5.785	(0.000)	69	7683			0.00- 0.00	31.28
4.635	5.785	(0.000)	70	0			0.00- 2.00	0.00
4.635	5.785	(0.000)	127	11731			10.00- 80.00	41.98
4.635	5.785	(0.000)	197	155			0.00- 2.00	0.55
4.635	5.785	(0.000)	198	27945			50.00- 0.00	113.77
4.635	5.785	(0.000)	199	1856			5.00- 9.00	6.64
4.635	5.785	(0.000)	275	6211			10.00- 60.00	25.29
4.635	5.785	(0.000)	365	783			1.00- 0.00	3.19
4.635	5.785	(0.000)	441	3606			0.00- 100.00	76.40
4.635	5.785	(0.000)	443	4720			15.00- 24.00	19.22

Data File: yl3101t.d

Date: 31-DEC-2012 12:10

Client ID: DFTPP | Instrument: MSY5975.i

Sample Info: DFTPP-2925415 ; LLPAH | Operator: VHB



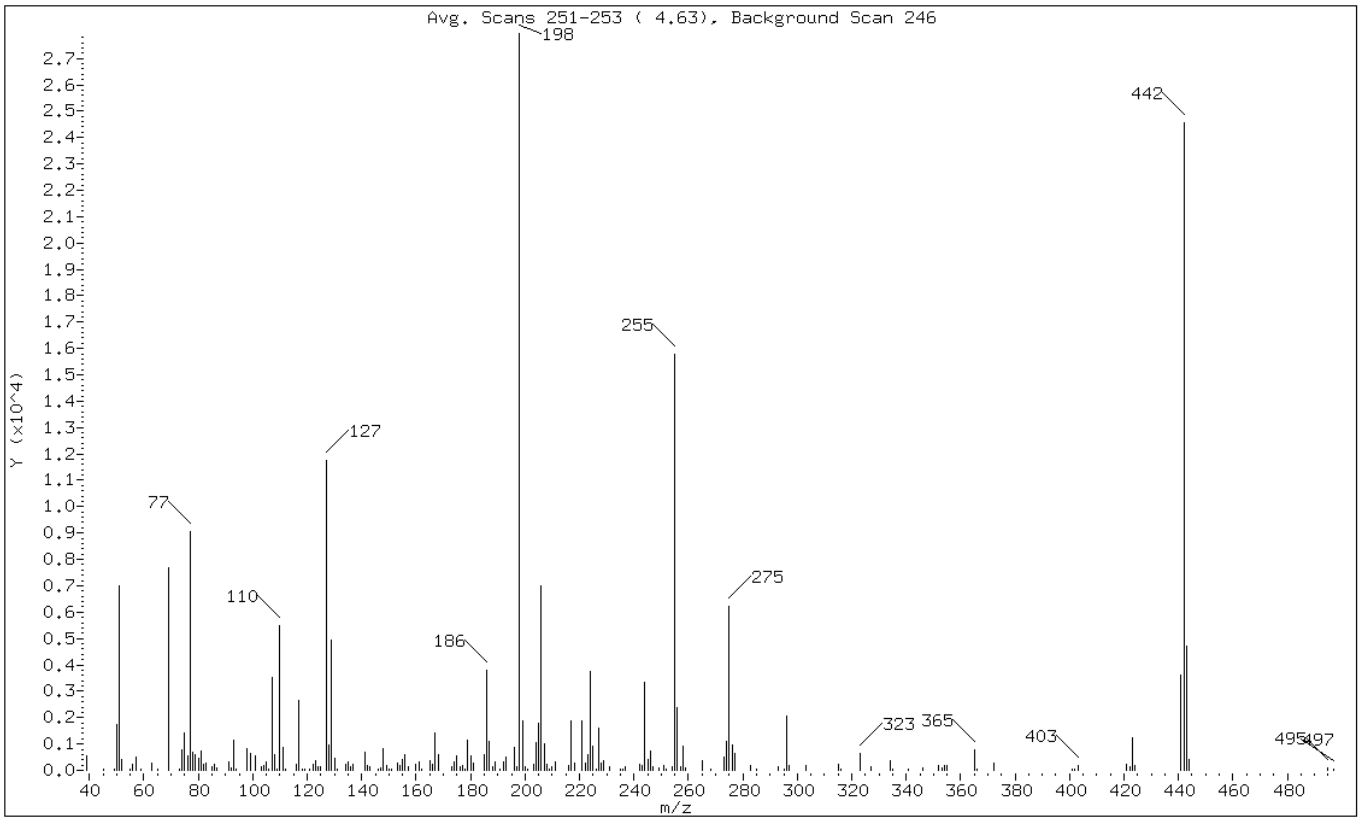
Data File: yl3101t.d

Date: 31-DEC-2012 12:10

Client ID: DFTPP Instrument: MSY5975.i

Sample Info: DFTPP-2925415 ; LLPAH Operator: VHB

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
442	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 442	28.45
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	31.28
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	47.76 (41.98)
197	Less than 2.00% of mass 198	0.63 (0.55)
198	Greater than 50.00% of mass 442	113.77
199	5.00 - 9.00% of mass 198	7.56 (6.64)
275	10.00 - 60.00% of mass 442	25.29
365	Greater than 1.00% of mass 442	3.19
441	Less than 100.00% of mass 443	14.68 (76.40)
443	15.00 - 24.00% of mass 442	19.22

Data File: yl3101t.d

Date: 31-DEC-2012 12:10

Client ID: DFTPP Instrument: MSY5975.i

Sample Info: DFTPP-2925415 ; LLPAH Operator: VHB

Data File: /chem/SM/MSY5975.i/1y123112.b/yl3101t.d
Spectrum: Avg. Scans 251-253 (4.63), Background Scan 246
Location of Maximum: 198.00
Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	550	121.00	51	189.00	321	258.00	911
45.00	52	122.00	226	191.00	61	259.00	76
49.00	45	123.00	345	192.00	311	265.00	382
50.00	1719	124.00	127	193.00	521	268.00	57
51.00	6989	125.00	134	196.00	855	273.00	525
52.00	402	127.00	11731	197.00	155	274.00	1109
55.00	38	128.00	978	198.00	27944	275.00	6211
56.00	221	129.00	4935	199.00	1856	276.00	963
57.00	516	130.00	442	200.00	145	277.00	648
59.00	26	131.00	58	201.00	53	283.00	195
63.00	265	134.00	244	203.00	209	285.00	61
65.00	60	135.00	336	204.00	1051	293.00	144
69.00	7683	136.00	138	205.00	1804	295.00	55
73.00	67	137.00	242	206.00	6979	296.00	2049
74.00	795	141.00	679	207.00	990	297.00	204
75.00	1423	142.00	197	208.00	224	303.00	185
76.00	541	143.00	158	209.00	51	315.00	234
77.00	9059	146.00	67	210.00	155	316.00	54
78.00	677	147.00	108	211.00	313	323.00	636
79.00	599	148.00	816	216.00	204	327.00	157
80.00	452	149.00	190	217.00	1864	334.00	379
81.00	711	150.00	51	218.00	275	335.00	55
82.00	231	151.00	54	221.00	1891	341.00	68
83.00	259	153.00	252	222.00	257	346.00	76
85.00	147	154.00	191	223.00	574	352.00	193
86.00	246	155.00	413	224.00	3768	353.00	113
87.00	80	156.00	592	225.00	909	354.00	165
91.00	310	157.00	138	226.00	64	355.00	167
92.00	112	160.00	213	227.00	1601	365.00	783
93.00	1140	161.00	313	228.00	293	366.00	54
94.00	54	162.00	61	229.00	350	372.00	291
98.00	824	165.00	351	231.00	130	401.00	57
99.00	653	166.00	235	235.00	50	402.00	59
101.00	555	167.00	1440	236.00	54	403.00	198
103.00	124	168.00	593	237.00	117	421.00	209
104.00	201	173.00	142	242.00	243	422.00	143
105.00	302	174.00	313	243.00	198	423.00	1241
106.00	54	175.00	530	244.00	3329	424.00	191
107.00	3519	176.00	138	245.00	410	441.00	3606
108.00	599	177.00	194	246.00	711	442.00	24560

109.00	54	178.00	58	247.00	121	443.00	4720
110.00	5482	179.00	1128	249.00	90	444.00	402
111.00	847	180.00	563	251.00	180	495.00	78
112.00	52	181.00	292	252.00	50	497.00	54
116.00	222	185.00	604	254.00	150		
117.00	2668	186.00	3812	255.00	15787		
118.00	60	187.00	1105	256.00	2372		
119.00	50	188.00	127	257.00	148		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-86021-2

SDG No.: 68086021-2

Client Sample ID: | Lab Sample ID: MB 680-261323/7-A

Matrix: Solid | Lab File ID: yl3107.d

Analysis Method: 8270C_LL_PAH | Date Collected:

Extract. Method: 3546 | Date Extracted: 12/28/2012 19:41

Sample wt/vol: 30.13(g) | Date Analyzed: 12/31/2012 14:42

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.: 261526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	6.7	U	6.7	3.1
91-57-6	2-Methylnaphthalene	6.7	U	6.7	3.3
83-32-9	Acenaphthene	6.7	U	6.7	3.3
208-96-8	Acenaphthylene	6.7	U	6.7	3.3
120-12-7	Anthracene	6.7	U	6.7	3.3
56-55-3	Benzo[a]anthracene	6.7	U	6.7	3.3
50-32-8	Benzo[a]pyrene	6.7	U	6.7	1.2
205-99-2	Benzo[b]fluoranthene	6.7	U	6.7	3.3
191-24-2	Benzo[g,h,i]perylene	6.7	U	6.7	3.3
207-08-9	Benzo[k]fluoranthene	6.7	U	6.7	2.0
218-01-9	Chrysene	6.7	U	6.7	3.3
53-70-3	Dibenz(a,h)anthracene	6.7	U	6.7	3.3
206-44-0	Fluoranthene	6.7	U	6.7	3.3
86-73-7	Fluorene	6.7	U	6.7	3.3
193-39-5	Indeno[1,2,3-cd]pyrene	6.7	U	6.7	3.3
91-20-3	Naphthalene	6.7	U	6.7	3.3
129-00-0	Pyrene	6.7	U	6.7	3.3
85-01-8	Phenanthrene	6.7	U	6.7	2.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		36-131

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3107.d
Lab Smp Id: MB 680-261323/7-A
Inj Date : 31-DEC-2012 14:42
Operator : VHB Inst ID: MSY5975.i
Smp Info : MB 680-261323/7-A
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.00000	Injection Volume
Vt	1.00000	Final Volume
Vo	1000.00000	Sample Extract Volume
A	1000.00000	uL to mL conversion
B	1000.00000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.00000	ug to mg conversion(value = 1= if no con

Cpnd Variable Local Compound Variable

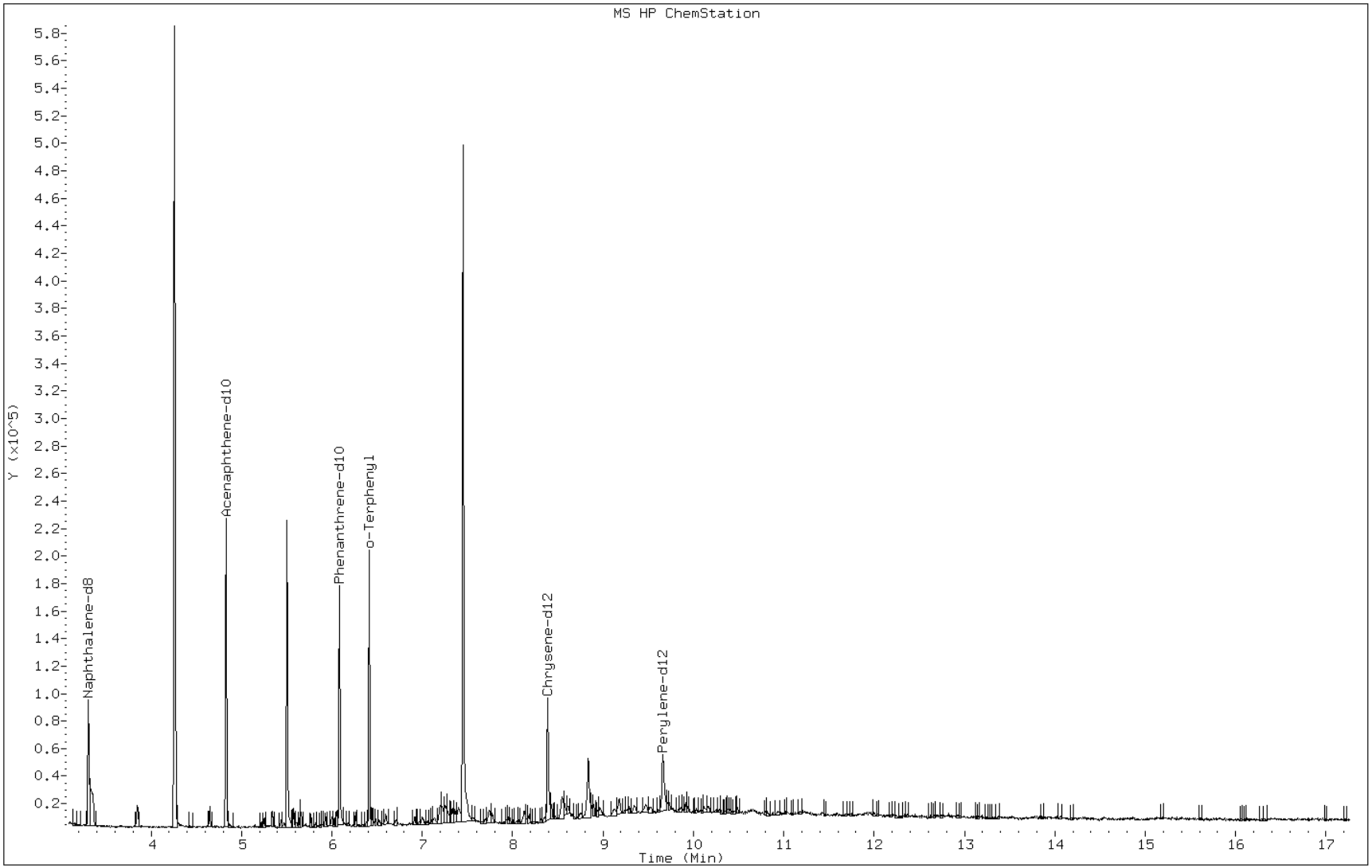
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.306	3.312	(1.000)	86266	2.00000	
* 5 Acenaphthene-d10	164	4.830	4.831	(1.000)	50957	2.00000	
* 9 Phenanthrene-d10	188	6.082	6.082	(1.000)	70791	2.00000	
$ 15 o-Terphenyl	230	6.414	6.419	(0.765)	36983	1.46105	1.46
* 13 Chrysene-d12	240	8.387	8.387	(1.000)	46894	2.00000	
* 18 Perylene-d12	264	9.666	9.660	(1.000)	32200	2.00000	

Data File: yl3107.d

Date: 31-DEC-2012 14:42

Client ID: Instrument: MSY5975.i

Sample Info: MB 680-261323/7-A Operator: VHB



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah
Job No.: 680-86021-2
SDG No.: 68086021-2
Client Sample ID:
Lab Sample ID: LCS 680-261323/8-A
Matrix: Solid
Lab File ID: yl3109.d
Analysis Method: 8270C_LL_PAH
Date Collected:
Extract. Method: 3546
Date Extracted: 12/28/2012 19:41
Sample wt/vol: 30.08(g)
Date Analyzed: 12/31/2012 15:27
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.: 261526
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	177		6.7	3.1
91-57-6	2-Methylnaphthalene	191		6.7	3.3
83-32-9	Acenaphthene	173		6.7	3.3
208-96-8	Acenaphthylene	177		6.7	3.3
120-12-7	Anthracene	171		6.7	3.3
56-55-3	Benzo[a]anthracene	163		6.7	3.3
50-32-8	Benzo[a]pyrene	188		6.7	1.2
205-99-2	Benzo[b]fluoranthene	174		6.7	3.3
191-24-2	Benzo[g,h,i]perylene	175		6.7	3.3
207-08-9	Benzo[k]fluoranthene	187		6.7	2.0
218-01-9	Chrysene	176		6.7	3.3
53-70-3	Dibenz(a,h)anthracene	169		6.7	3.3
206-44-0	Fluoranthene	166		6.7	3.3
86-73-7	Fluorene	187		6.7	3.3
193-39-5	Indeno[1,2,3-cd]pyrene	158		6.7	3.3
91-20-3	Naphthalene	180		6.7	3.3
129-00-0	Pyrene	167		6.7	3.3
85-01-8	Phenanthrene	179		6.7	2.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		36-131

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3109.d
Lab Smp Id: LCS 680-261323/8-A
Inj Date : 31-DEC-2012 15:27
Operator : VHB Inst ID: MSY5975.i
Smp Info : LCS 680-261323/8-A
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.00000	Injection Volume
Vt	1.00000	Final Volume
Vo	1000.00000	Sample Extract Volume
A	1000.00000	uL to mL conversion
B	1000.00000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.00000	ug to mg conversion(value = 1= if no con

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.306	3.312	(1.000)	91645	2.00000	
2 Naphthalene	128	3.322	3.333	(1.005)	292456	5.41483	5.41(R)
3 2-Methylnaphthalene	142	3.932	3.932	(1.189)	193731	5.74747	5.74(R)
4 1-Methylnaphthalene	142	4.017	4.018	(1.215)	188502	5.31449	5.31(R)
6 Acenaphthylene	152	4.707	4.708	(0.975)	310419	5.33817	5.33(R)
* 5 Acenaphthene-d10	164	4.830	4.831	(1.000)	56274	2.00000	
7 Acenaphthene	154	4.857	4.857	(1.006)	179883	5.21725	5.21(R)
8 Fluorene	166	5.301	5.296	(1.097)	217617	5.62916	5.62(R)
* 9 Phenanthrene-d10	188	6.082	6.082	(1.000)	89122	2.00000	
10 Phenanthrene	178	6.103	6.104	(1.004)	295047	5.37422	5.37(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
11 Anthracene	178	6.146	6.146	(1.011)	270506	5.15114	5.15(R)
$ 15 o-Terphenyl	230	6.419	6.419	(0.765)	37208	0.96670	0.96
12 Fluoranthene	202	7.109	7.109	(1.169)	320512	5.00794	5.00(R)
14 Pyrene	202	7.302	7.302	(0.871)	324388	5.01222	5.01(R)
16 Benzo(a)Anthracene	228	8.382	8.382	(0.999)	248589	4.91380	4.91(R)
* 13 Chrysene-d12	240	8.387	8.387	(1.000)	71306	2.00000	
17 Chrysene	228	8.414	8.414	(1.003)	238990	5.30445	5.30(R)
19 Benzo(b)fluoranthene	252	9.323	9.323	(0.965)	230300	5.22488	5.22(R)
20 Benzo(k)fluoranthene	252	9.350	9.350	(0.968)	252842	5.62414	5.62(R)
21 Benzo(a)pyrene	252	9.607	9.607	(0.994)	205115	5.64208	5.64(R)
* 18 Perylene-d12	264	9.660	9.660	(1.000)	60247	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.767	10.768	(1.284)	184543	4.76411	4.76(R)
23 Dibenzo(a,h)anthracene	278	10.789	10.794	(1.117)	155206	5.08018	5.08(R)
24 Benzo(g,h,i)perylene	276	11.094	11.094	(1.148)	166301	5.26208	5.26(R)

QC Flag Legend

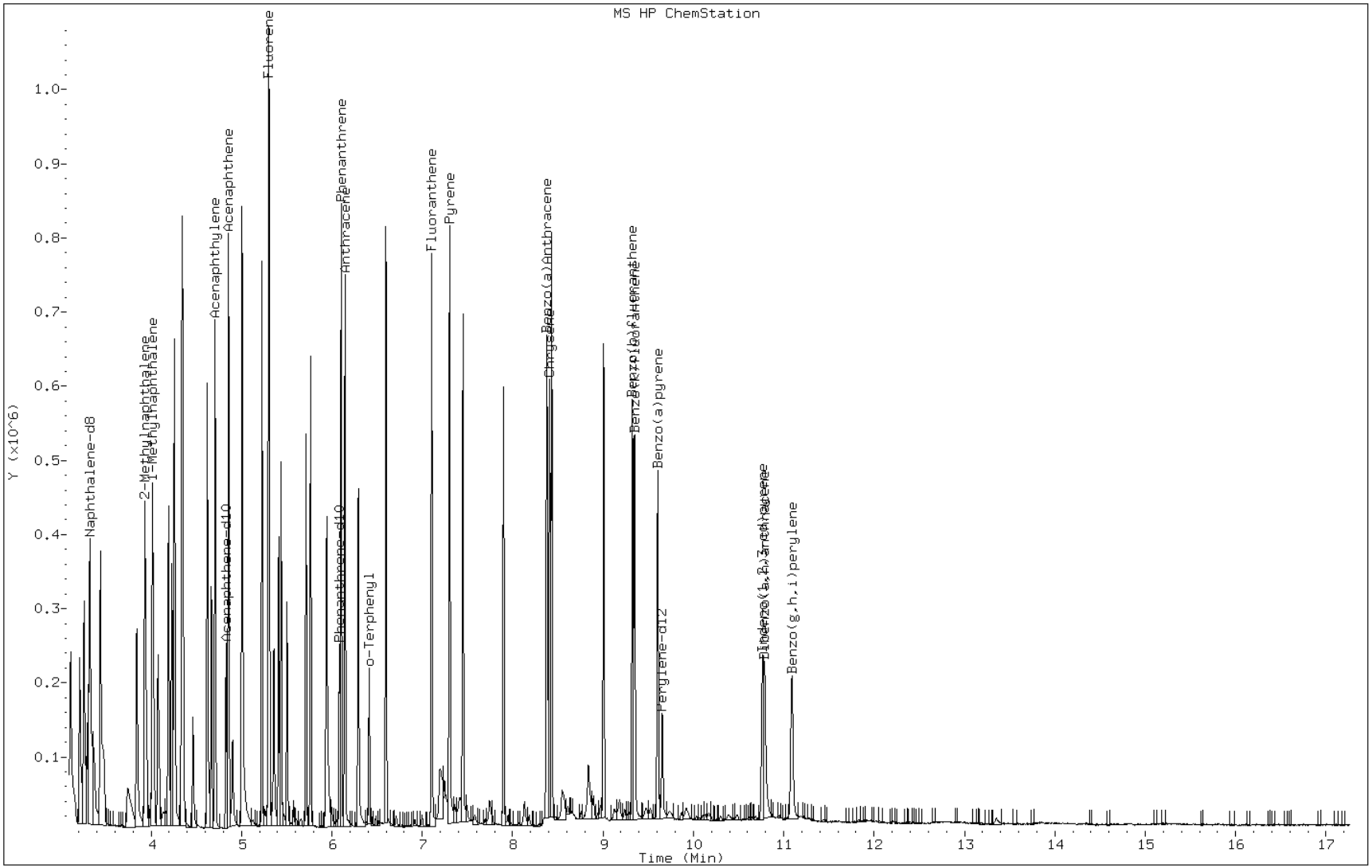
R - Spike/Surrogate failed recovery limits.

Data File: yl3109.d

Date: 31-DEC-2012 15:27

Client ID: Instrument: MSY5975.i

Sample Info: LCS 680-261323/8-A Operator: VHB



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-86021-2

SDG No.: 68086021-2

Client Sample ID: CV0294A-CS MS | Lab Sample ID: 680-86021-25 MS

Matrix: Solid | Lab File ID: yl3111.d

Analysis Method: 8270C_LL_PAH | Date Collected: 12/18/2012 14:10

Extract. Method: 3546 | Date Extracted: 12/28/2012 19:41

Sample wt/vol: 30.43(g) | Date Analyzed: 12/31/2012 16:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 33.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 261526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	336		100	46
91-57-6	2-Methylnaphthalene	378		100	49
83-32-9	Acenaphthene	315		100	49
208-96-8	Acenaphthylene	310		100	49
120-12-7	Anthracene	278		100	49
56-55-3	Benzo[a]anthracene	386		100	49
50-32-8	Benzo[a]pyrene	405		100	18
205-99-2	Benzo[b]fluoranthene	467		100	49
191-24-2	Benzo[g,h,i]perylene	338		100	49
207-08-9	Benzo[k]fluoranthene	387		100	30
218-01-9	Chrysene	441		100	49
53-70-3	Dibenz(a,h)anthracene	275		100	49
206-44-0	Fluoranthene	480		100	49
86-73-7	Fluorene	325		100	49
193-39-5	Indeno[1,2,3-cd]pyrene	285		100	49
91-20-3	Naphthalene	334		100	49
129-00-0	Pyrene	518		100	49
85-01-8	Phenanthrene	434		100	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3111.d
Lab Smp Id: 680-86021-A-25-H MS Client Smp ID: CV0294A-CS
Inj Date : 31-DEC-2012 16:12
Operator : VHB Inst ID: MSY5975.i
Smp Info : 680-86021-A-25-H MS DL=10
Misc Info : 680-86021-A-25-H MS
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 9 QC Sample: MS
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

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

Name	Value	Description
DF	10.00000	Dilution Factor
Vi	1.00000	Injection Volume
Vt	1.00000	Final Volume
Ws	30.43000	Weight Extracted
M	33.66733	% Moisture
A	1000.00000	uL to mL conversion
B	1000.00000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.00000	ug to mg conversion(value = 1 if no conv
GPC	1.00000	GPC FACTOR

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.311	3.312	(1.000)	86827	2.00000	
2 Naphthalene	128	3.333	3.333	(1.006)	34539	0.67498	334.39(R)
3 2-Methylnaphthalene	142	3.932	3.932	(1.187)	24340	0.76217	377.59(R)
4 1-Methylnaphthalene	142	4.017	4.018	(1.213)	22803	0.67857	336.17(R)
6 Acenaphthylene	152	4.707	4.708	(0.975)	33551	0.62481	309.53(R)
* 5 Acenaphthene-d10	164	4.830	4.831	(1.000)	51966	2.00000	
7 Acenaphthene	154	4.857	4.857	(1.006)	20251	0.63605	315.11(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
8 Fluorene	166	5.301	5.296	(1.097)	23448	0.65683	325.40(R)
* 9 Phenanthrene-d10	188	6.082	6.082	(1.000)	80724	2.00000	
10 Phenanthrene	178	6.103	6.104	(1.004)	43528	0.87534	433.65(R)
11 Anthracene	178	6.146	6.146	(1.011)	26676	0.56083	277.84(R)
12 Fluoranthene	202	7.109	7.109	(1.169)	56114	0.96799	479.55(R)
14 Pyrene	202	7.301	7.302	(0.871)	53792	1.04548	517.94(R)
16 Benzo(a)Anthracene	228	8.382	8.382	(0.999)	31304	0.77833	385.59(R)
* 13 Chrysene-d12	240	8.387	8.387	(1.000)	56689	2.00000	
17 Chrysene	228	8.414	8.414	(1.003)	31871	0.88979	440.81(R)
19 Benzo(b)fluoranthene	252	9.329	9.323	(0.966)	32344	0.94336	467.35(R)
20 Benzo(k)fluoranthene	252	9.345	9.350	(0.967)	27294	0.78051	386.67(RM)
21 Benzo(a)pyrene	252	9.607	9.607	(0.994)	23111	0.81726	404.88(R)
* 18 Perylene-d12	264	9.660	9.660	(1.000)	46864	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.767	10.768	(1.284)	17706	0.57496	284.84(R)
23 Dibenzo(a,h)anthracene	278	10.789	10.794	(1.117)	13183	0.55474	274.82(R)
24 Benzo(g,h,i)perylene	276	11.094	11.094	(1.148)	16760	0.68177	337.75(R)

QC Flag Legend

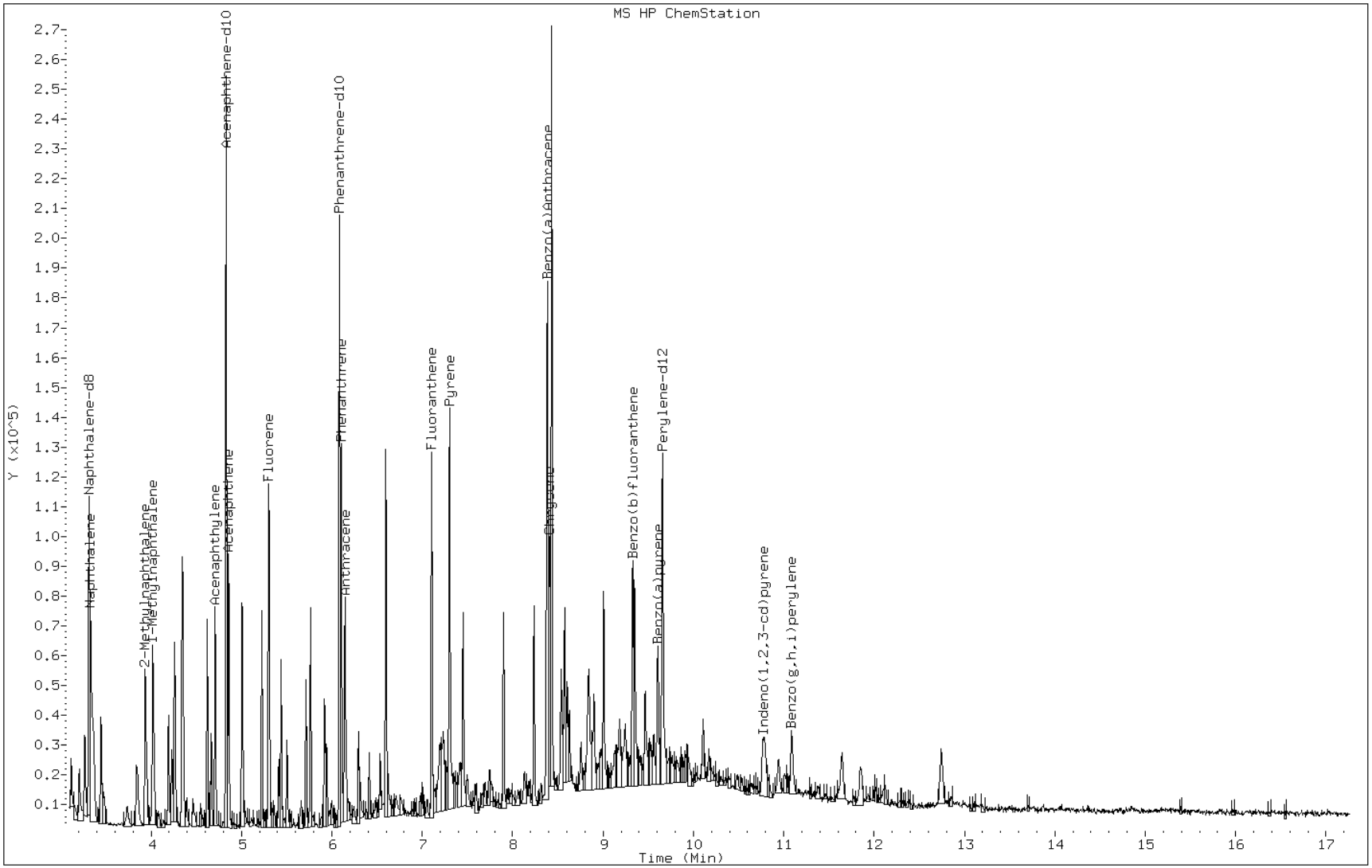
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: yl3111.d

Date: 31-DEC-2012 16:12

Client ID: CV0294A-CS Instrument: MSY5975.i

Sample Info: 680-86021-A-25-H MS DL=10 Operator: VHB



Manual Integration Report

Data File: yl3111.d
Inj. Date and Time: 31-DEC-2012 16:12
Instrument ID: MSY5975.i
Client ID: CV0294A-CS
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/01/2013

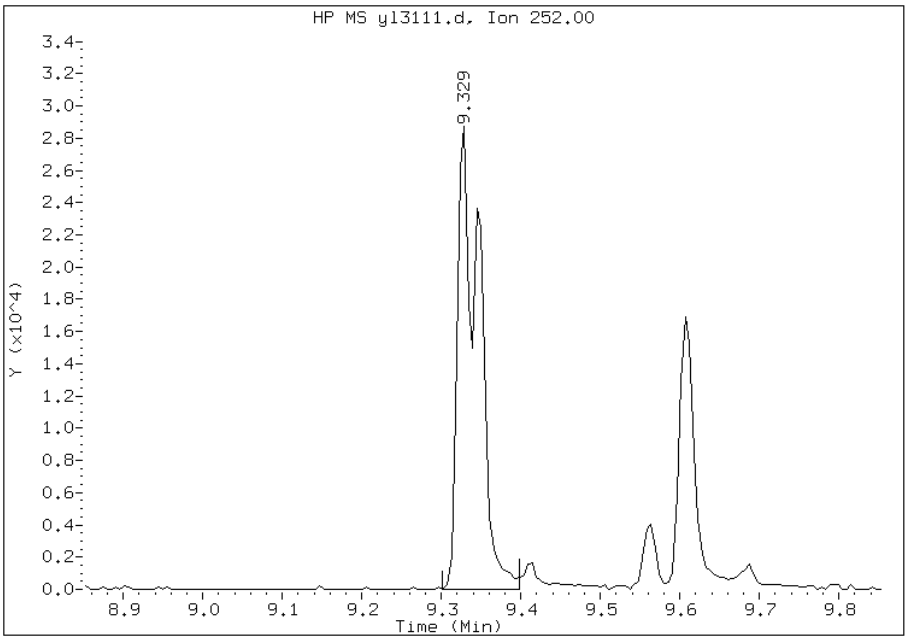
Processing Integration Results

RT: 9.33

Response: 55254

Amount: 2

Conc: 783



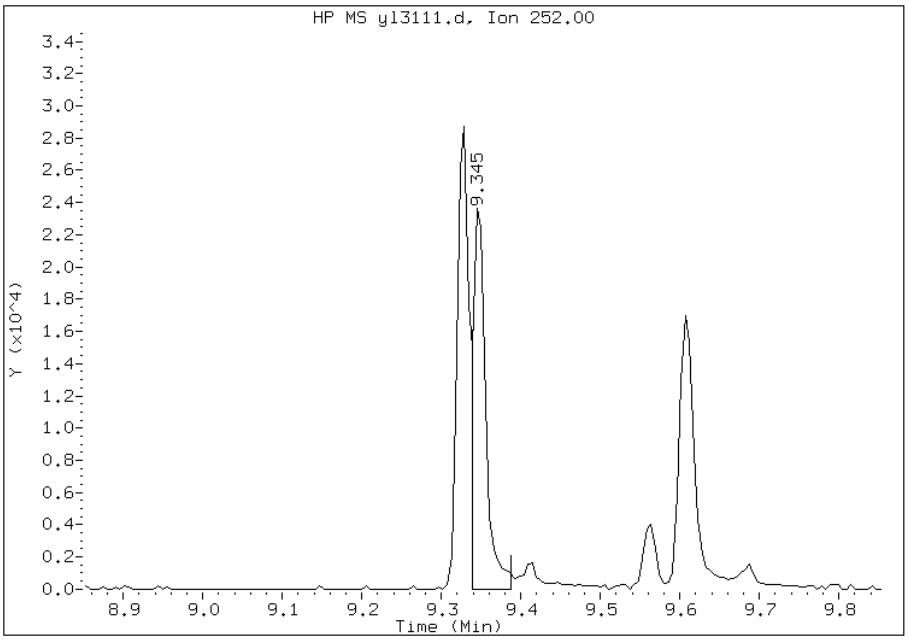
Manual Integration Results

RT: 9.34

Response: 27294

Amount: 1

Conc: 387



Manually Integrated By: chemist
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-86021-2

SDG No.: 68086021-2

Client Sample ID: CV0294A-CS MSD | Lab Sample ID: 680-86021-25 MSD

Matrix: Solid | Lab File ID: yl3112.d

Analysis Method: 8270C_LL_PAH | Date Collected: 12/18/2012 14:10

Extract. Method: 3546 | Date Extracted: 12/28/2012 19:41

Sample wt/vol: 30.12(g) | Date Analyzed: 12/31/2012 16:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 33.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 261526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
90-12-0	1-Methylnaphthalene	348		100	47
91-57-6	2-Methylnaphthalene	388		100	50
83-32-9	Acenaphthene	330		100	50
208-96-8	Acenaphthylene	315		100	50
120-12-7	Anthracene	302		100	50
56-55-3	Benzo[a]anthracene	381		100	50
50-32-8	Benzo[a]pyrene	408		100	18
205-99-2	Benzo[b]fluoranthene	411		100	50
191-24-2	Benzo[g,h,i]perylene	350		100	50
207-08-9	Benzo[k]fluoranthene	451		100	30
218-01-9	Chrysene	512		100	50
53-70-3	Dibenz(a,h)anthracene	275		100	50
206-44-0	Fluoranthene	467		100	50
86-73-7	Fluorene	332		100	50
193-39-5	Indeno[1,2,3-cd]pyrene	303		100	50
91-20-3	Naphthalene	363		100	50
129-00-0	Pyrene	492		100	50
85-01-8	Phenanthrene	444		100	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C

Data file : /chem/SM/MSY5975.i/1y123112.b/yl3112.d
Lab Smp Id: 680-86021-A-25-I MS
Inj Date : 31-DEC-2012 16:35
Operator : VHB Inst ID: MSY5975.i
Smp Info : 680-86021-A-25-I MSD DL=10
Misc Info :
Comment : analysis of PAHs
Method : /chem/SM/MSY5975.i/1y123112.b/Y-b8270CLLPAH-m.m
Meth Date : 31-Dec-2012 13:00 chamberk Quant Type: ISTD
Cal Date : 21-DEC-2012 13:30 Cal File: yl2112q.d
Als bottle: 10 QC Sample: MSD
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: TL2007.sub
Target Version: 3.50
Processing Host: savchem1

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

Name	Value	Description
DF	10.00000	Dilution Factor
Vi	1.00000	Injection Volume
Vt	1.00000	Final Volume
Ws	30.00000	Weight Extracted
M	0.00000	% Moisture
A	1000.00000	uL to mL conversion
B	1000.00000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.00000	ug to mg conversion(value = 1 if no conv
GPC	1.00000	GPC FACTOR

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.311	3.312	(1.000)	77898	2.00000	
2 Naphthalene	128	3.333	3.333	(1.006)	33306	0.72549	241.83(R)
3 2-Methylnaphthalene	142	3.932	3.932	(1.187)	22191	0.77453	258.17(R)
4 1-Methylnaphthalene	142	4.017	4.018	(1.213)	20988	0.69615	232.04(R)
6 Acenaphthylene	152	4.707	4.708	(0.975)	30017	0.62911	209.70(R)
* 5 Acenaphthene-d10	164	4.830	4.831	(1.000)	46174	2.00000	
7 Acenaphthene	154	4.857	4.857	(1.006)	18655	0.65942	219.80(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
8 Fluorene	166	5.301	5.296	(1.097)	21014	0.66249	220.82(R)
* 9 Phenanthrene-d10	188	6.082	6.082	(1.000)	68120	2.00000	
10 Phenanthrene	178	6.103	6.104	(1.004)	37259	0.88791	295.96(R)
11 Anthracene	178	6.146	6.146	(1.011)	24240	0.60391	201.30(R)
12 Fluoranthene	202	7.109	7.109	(1.169)	45600	0.93216	310.72(R)
14 Pyrene	202	7.301	7.302	(0.871)	45438	0.98239	327.46(R)
16 Benzo(a)Anthracene	228	8.382	8.382	(0.999)	27510	0.76090	253.63(R)
* 13 Chrysene-d12	240	8.387	8.387	(1.000)	50960	2.00000	
17 Chrysene	228	8.409	8.414	(1.003)	32949	1.02330	341.10(R)
19 Benzo(b)fluoranthene	252	9.323	9.323	(0.965)	25316	0.82209	274.02(R)
20 Benzo(k)fluoranthene	252	9.345	9.350	(0.967)	28285	0.90054	300.18(RM)
21 Benzo(a)pyrene	252	9.607	9.607	(0.994)	20702	0.81507	271.69(R)
* 18 Perylene-d12	264	9.660	9.660	(1.000)	42092	2.00000	
22 Indeno(1,2,3-cd)pyrene	276	10.767	10.768	(1.284)	16746	0.60492	201.63(R)
23 Dibenzo(a,h)anthracene	278	10.789	10.794	(1.117)	11728	0.54946	183.15(R)
24 Benzo(g,h,i)perylene	276	11.094	11.094	(1.148)	15454	0.69991	233.30(R)

QC Flag Legend

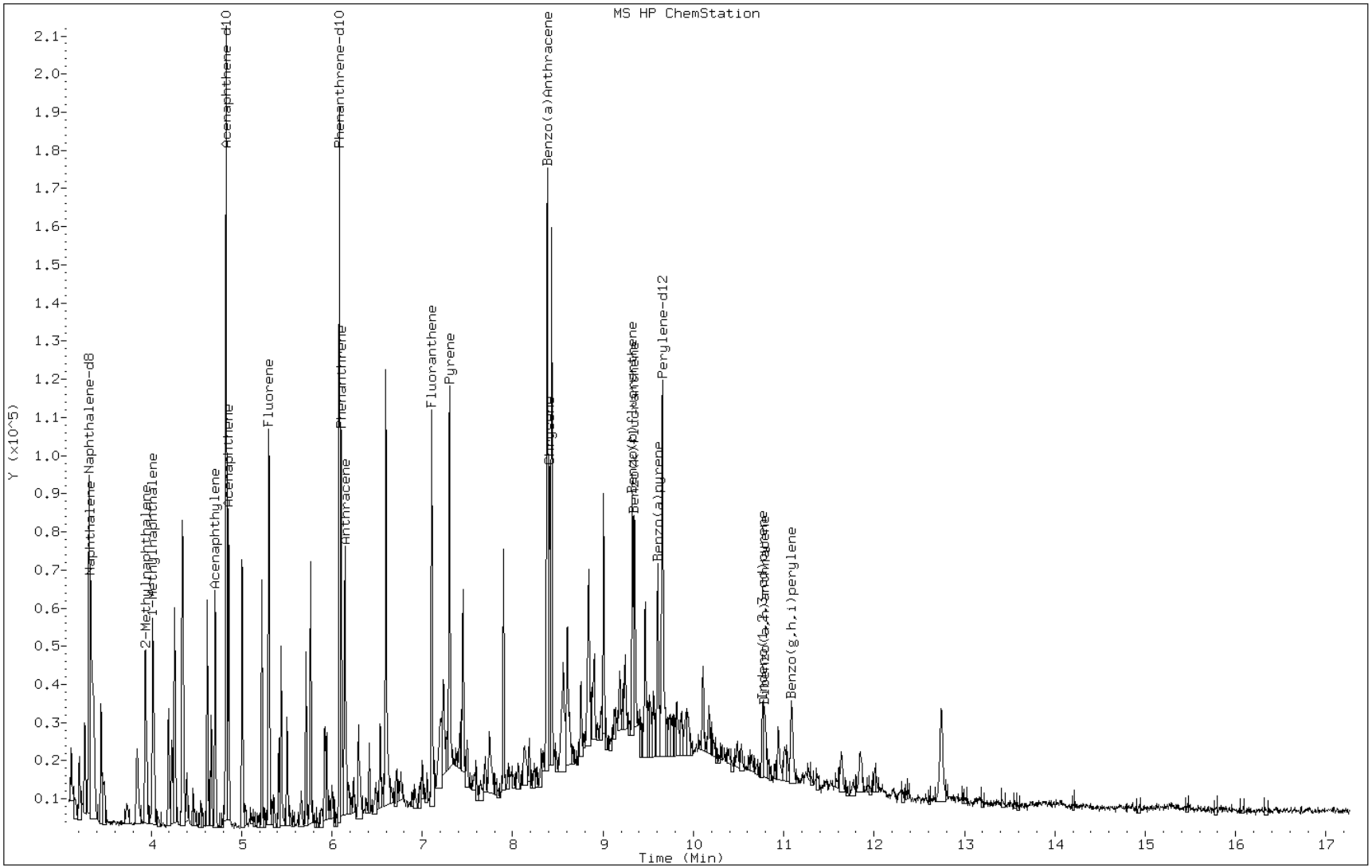
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: yl3112.d

Date: 31-DEC-2012 16:35

Client ID: Instrument: MSY5975.i

Sample Info: 680-86021-A-25-I MSD DL=10 Operator: VHB



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Instrument ID: MSY Start Date: 12/21/2012 10:58

Analysis Batch Number: 261214 End Date: 12/21/2012 17:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-261214/1		12/21/2012 10:58	1	yl2105t.d	HP-5MS 0.25(mm)
IC 680-261214/2		12/21/2012 11:14	1	yl2106q.d	HP-5MS 0.25(mm)
IC 680-261214/3		12/21/2012 11:37	1	yl2107q.d	HP-5MS 0.25(mm)
IC 680-261214/4		12/21/2012 11:59	1	yl2108q.d	HP-5MS 0.25(mm)
IC 680-261214/5		12/21/2012 12:22	1	yl2109q.d	HP-5MS 0.25(mm)
IC 680-261214/6		12/21/2012 12:44	1	yl2110q.d	HP-5MS 0.25(mm)
IC 680-261214/7		12/21/2012 13:07	1	yl2111q.d	HP-5MS 0.25(mm)
ICIS 680-261214/8		12/21/2012 13:30	1	yl2112q.d	HP-5MS 0.25(mm)
ICV 680-261214/9		12/21/2012 13:52	1		HP-5MS 0.25(mm)
ZZZZZ		12/21/2012 16:31	10		HP-5MS 0.25(mm)
ZZZZZ		12/21/2012 17:53	10		HP-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Instrument ID: MSY Start Date: 12/31/2012 12:10

Analysis Batch Number: 261526 End Date: 12/31/2012 23:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-261526/1		12/31/2012 12:10	1	y13101t.d	HP-5MS 0.25(mm)
CCVIS 680-261526/2		12/31/2012 12:44	1	y13102q.d	HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 13:32	1		HP-5MS 0.25(mm)
MB 680-261323/7-A		12/31/2012 14:42	1	y13107.d	HP-5MS 0.25(mm)
LCS 680-261323/8-A		12/31/2012 15:27	1	y13109.d	HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 15:50	1		HP-5MS 0.25(mm)
680-86021-25 MS	CV0294A-CS MS	12/31/2012 16:12	10	y13111.d	HP-5MS 0.25(mm)
680-86021-25 MSD	CV0294A-CS MSD	12/31/2012 16:35	10	y13112.d	HP-5MS 0.25(mm)
680-86021-21	CV0412B-CS	12/31/2012 16:57	10	y13113.d	HP-5MS 0.25(mm)
680-86021-22	CV0422A-CS-SP	12/31/2012 17:20	10	y13114.d	HP-5MS 0.25(mm)
680-86021-23	CV0421B-CS-SP	12/31/2012 17:42	10	y13115.d	HP-5MS 0.25(mm)
680-86021-24	CV0235C-CS	12/31/2012 18:05	10	y13116.d	HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 18:28	10		HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 18:51	10		HP-5MS 0.25(mm)
680-86021-25	CV0294A-CS	12/31/2012 19:14	10	y13119.d	HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 19:37	10		HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 19:59	10		HP-5MS 0.25(mm)
680-86021-29	CV0627B-GS	12/31/2012 20:22	10	y13122.d	HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 20:45	10		HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 21:08	10		HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 21:31	10		HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 21:54	10		HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 22:17	10		HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 22:40	10		HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 23:03	10		HP-5MS 0.25(mm)
ZZZZZ		12/31/2012 23:26	10		HP-5MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Batch Number: 261323 Batch Start Date: 12/28/12 19:41 Batch Analyst: Wright, Amanda J

Batch Method: 3546 Batch End Date: 12/28/12 20:11

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BENZIDINwk 00139	BNAFULLSPK 00478	LLBNAwkSUR 00052	AnalysisComment
680-86021-A-21	CV0412B-CS	3546, 8270C_LL_PAH	T	30.11 g	1 mL			1 mL	
680-86021-A-22	CV0422A-CS-SP	3546, 8270C_LL_PAH	T	30.35 g	1 mL			1 mL	
680-86021-A-23	CV0421B-CS-SP	3546, 8270C_LL_PAH	T	30.34 g	1 mL			1 mL	
680-86021-A-24	CV0235C-CS	3546, 8270C_LL_PAH	T	30.31 g	1 mL			1 mL	
680-86021-A-25	CV0294A-CS	3546, 8270C_LL_PAH	T	30.33 g	1 mL			1 mL	
680-86021-A-29	CV0627B-GS	3546, 8270C_LL_PAH	T	30.33 g	1 mL			1 mL	
MB 680-261323/7		3546, 8270C_LL_PAH		30.13 g	1 mL			1 mL	
LCS 680-261323/8		3546, 8270C_LL_PAH		30.08 g	1 mL	100 uL	100 uL	1 mL	LLBNA/BENZ
680-86021-A-25 MS	CV0294A-CS	3546, 8270C_LL_PAH	T	30.43 g	1 mL	100 uL	100 uL	1 mL	LLBNA/BENZ
680-86021-A-25 MSD	CV0294A-CS	3546, 8270C_LL_PAH	T	30.12 g	1 mL	100 uL	100 uL	1 mL	LLBNA/BENZ

Batch Notes	
Balance ID	30
Batch Comment	8270 LL box M176
Person's name who did the concentration	JCS/AJW
Exchange Solvent Lot #	2915112
Exchange Solvent Name	MECL2
Final Concentrator Volume	1 mL
MeCl2/Acetone Lot #	2768909
Microwave Start Time	1941
Microwave Stop Time	2011
Na2SO4 Lot Number	2924973
Ottawa Sand Lot #	2899320
Person's name who did the prep	JCS/AJW
Person who witnessed spiking	JE

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-86021-2

SDG No.: 68086021-2

Batch Number: 261323 Batch Start Date: 12/28/12 19:41 Batch Analyst: Wright, Amanda J

Batch Method: 3546 Batch End Date: 12/28/12 20:11

Basis	Basis Description
T	Total/NA

Serial Number 62474

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.	PROJECT LOCATION (STATE)
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER: 2005148-1356	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME: OTIE	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 4

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	2L PAH	RCRA8 Metals									REMARKS
								PRESERVATIVE										
12-18-12	0840	HP0156A-CS	C		X			X										
	0845	HP0156B-CS	C		X			X										
	1020	CV0370A-CS	C		X			X										
	1025	CV0370B-CS	C		X			X										
	1035	CV0370C-GS	G		X			X										
	0915	CV0648A-CS	C		X			X										
	0915	CV0648A-CSD	C		X			X										
	0920	CV0648B-CS	C		X			X										
	0920	CV0648B-CSD	C		X			X										
	0955	CV0412A-CS	C		X			X										
	0950	CV0412B-CS	C		X			X										
	1037	CV0422A-CS-SP	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	12-19-12	1300						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	12/20/12	1027	YES ○ NO ○		680 85980	4.2°

Serial Number 62476

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.	PROJECT LOCATION (STATE)
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER: 2005148-1356	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME: OTIE	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 3 OF 4

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA 8 metals									REMARKS
								PRESERVATIVE										
12-18-12	1357	CV0421B-CS-SP	C		X			X										
	1245	~~CV0424A-CS-SP~~	C		X			X										
	1300	~~CV0424B-CS-SP~~	C		X			X										
	1515	~~CV0235A-CS~~	C		X			X										
	1535	~~CV0235B-CS~~	C		X			X										
	1540	CV0235C-CS	C		X			X										
	1410	CV0294A-CS	C		X			X										
	1419	~~CV0294B-CS~~	C		X			X										
	1430	~~CV0294C-CS~~	C		X			X										
	0730	FM0140B-CS-SP (sieved)	C		X				X									
	1430	FM0228A-CS-SP (sieved)	C		X				X									
	1535	CV0230B-CS-SP (sieved)	C		X				X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
R Anglin	12-19-12	1300						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	12/21/12	1027	YES ○ NO ○		680-85980	4.2°

01/03/2013

Serial Number 62479

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.	PROJECT LOCATION (STATE)
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER: 20051148-1356	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME: OTIE	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 4

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA8 Metals									REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
12-19-12	08:40	~~EMB016A-GS~~	C		X			X										
	08:50	~~EMB016B-GS~~	G		X			X										
	0915	~~CV0627A-CS~~	C		X			X	X									
	0925	CV0627B-GS	G		X			X										
	0950	~~HP0190A-CS-SP~~	C		X			X										
	1000	~~HP0190B-CS-SP~~	C		X			X										
	1015	~~HP0190C-CS-SP~~	C		X			X										
	0900	~~EV0415A-CS-SP~~	C		X			X										
	09:5	~~[illegible]~~	C		X			X										
	12.00	~~12-19-12 [illegible]~~		X				X	X									
	0915	CV0627A-CS (Sieved)	C		X				X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	12-19-12	1300						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	12/20/12	1027	YES ○ NO ○		680-85980	4.2°