

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101617\
 Data File : BF099544.D
 Acq On : 16 Oct 2017 15:08
 Operator : SJ/JU
 Sample : I5820-01 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOILPILE

Manual Integrations
 APPROVED

Sohil
 10/17/2017 5:01:59 PM

Quant Time: Oct 17 01:16:22 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 16:25:21 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	111844	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	448853	20.00	ng	0.00
38) Acenaphthene-d10	9.88	164	189266	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	276113	20.00	ng	0.00
75) Chrysene-d12	14.02	240	187037	20.00	ng	0.00
86) Perylene-d12	15.49	264	202816	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	395457	56.29	ng	0.00
7) Phenol-d6	6.48	99	461077	53.20	ng	0.00
23) Nitrobenzene-d5	7.41	82	265712	37.96	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	76397	49.33	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	495419	43.70	ng	-0.01
78) Terphenyl-d14	12.95	244	286715	34.86	ng	0.00
Target Compounds						
10) Phenol	6.49	94	31237	3.223	ng	93
49) Dimethylphthalate	9.59	163	77565	5.430	ng	99
70) Phenanthrene	11.39	178	159669	10.803	ng	97
71) Anthracene	11.45	178	36125	2.389	ng	97
74) Fluoranthene	12.59	202	243905	16.297	ng	98
77) Pyrene	12.82	202	217896	15.278	ng	99
80) Benzo(a)anthracene	14.00	228	120853	10.671	ng	99
82) Chrysene	14.04	228	102239	9.482	ng	99
85) Indeno(1,2,3-cd)pyrene	16.97	276	65265	7.567	ng	99
87) Benzo(b)fluoranthene	15.06	252	151476m	12.147	ng	
88) Benzo(k)fluoranthene	15.08	252	51699m	4.198	ng	
89) Benzo(a)pyrene	15.43	252	110380	9.643	ng	# 96
91) Benzo(a,h,i)perylene	17.42	276	60649	6.698	ng	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

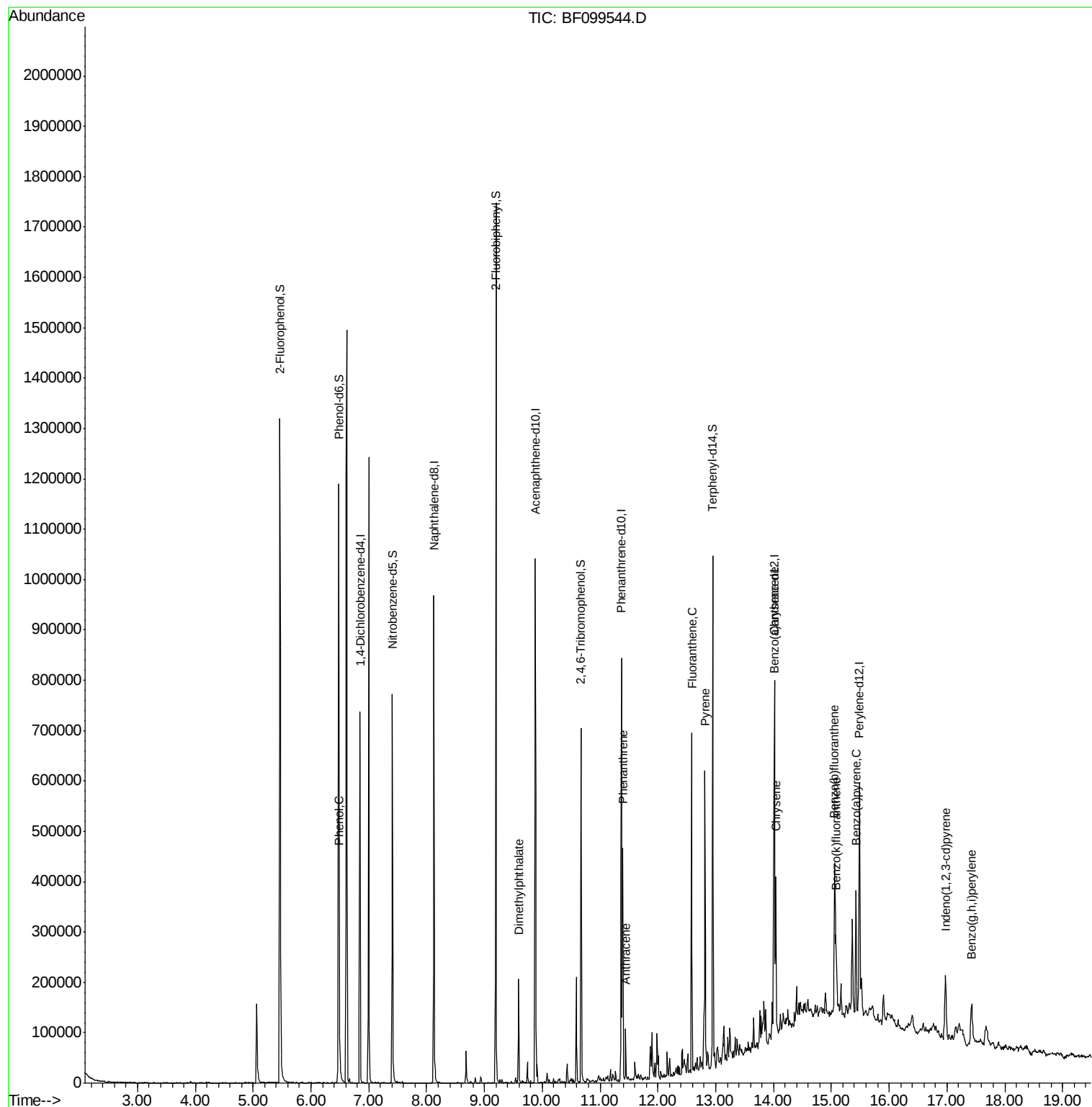
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101617\
Data File : BF099544.D
Acq On : 16 Oct 2017 15:08
Operator : SJ/JU
Sample : I5820-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

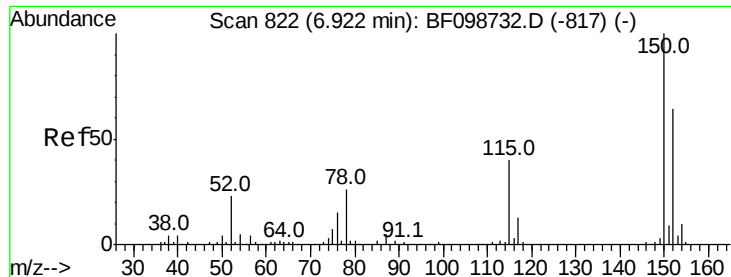
Instrument :
BNA_F
ClientSampleId :
SOILPILE

Manual Integrations
APPROVED

Sohil
10/17/2017 5:01:59 PM

Quant Time: Oct 17 01:16:22 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 11 16:25:21 2017
Response via : Initial Calibration





#1

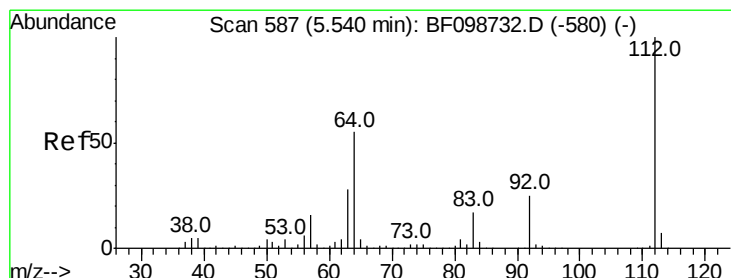
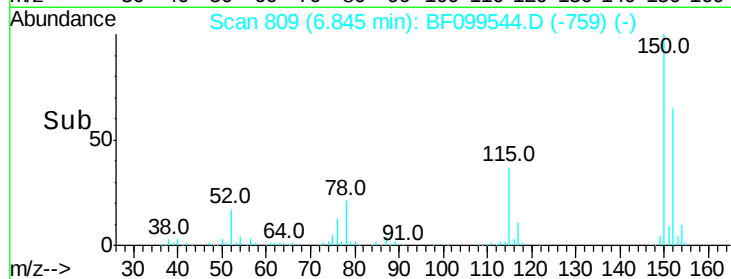
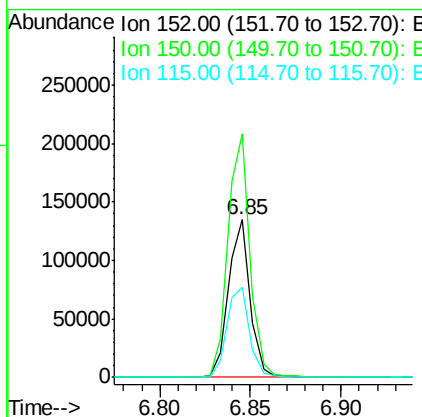
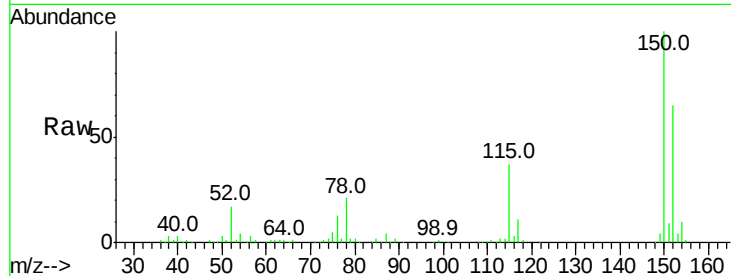
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Instrument :
BNA_F
ClientSampled :
SOILPILE

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.7	124.6	186.8
115	57.0	50.1	75.1

Manual Integrations
APPROVED

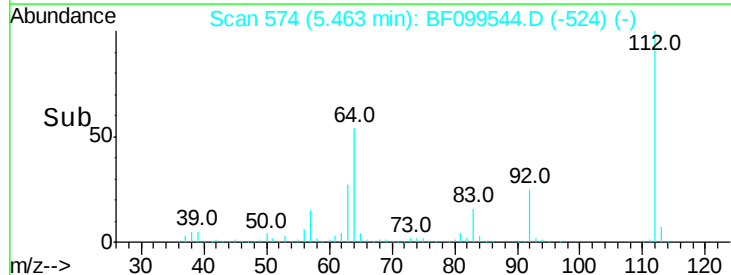
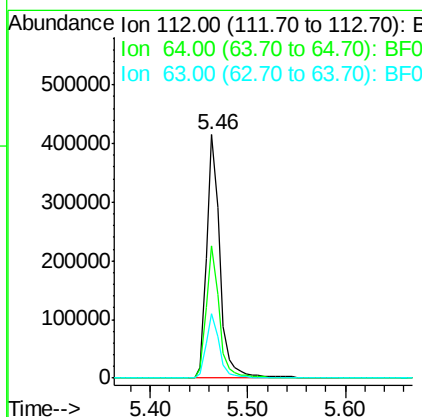
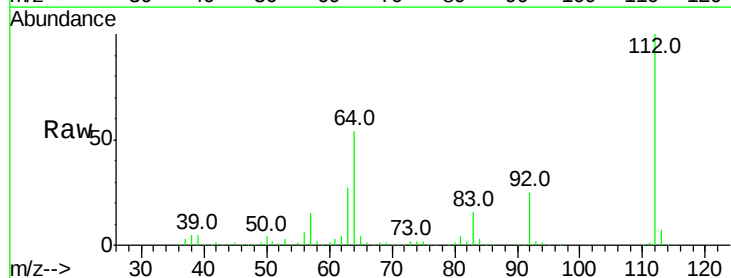
Sohil
10/17/2017 5:01:59 PM

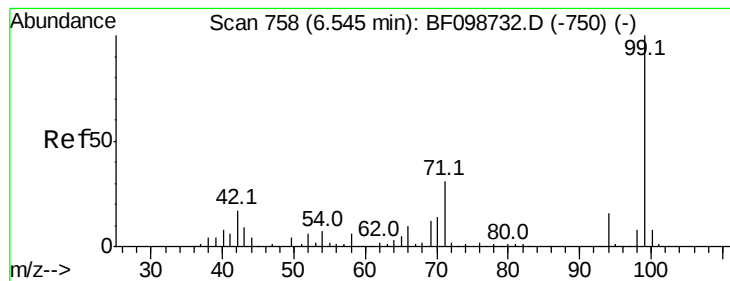


#5

2-Fluorophenol
Concen: 56.286 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.2	47.9	71.9
63	26.6	23.7	35.5





#7

Phenol-d6

Concen: 53.198 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF099544.D

Acq: 16 Oct 2017 15:08

Instrument :

BNA_F

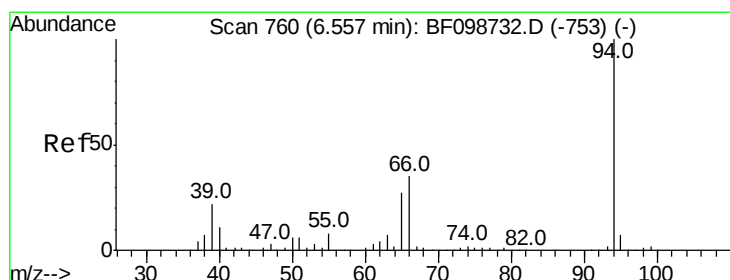
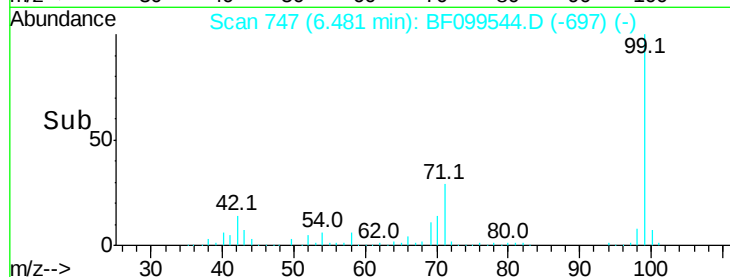
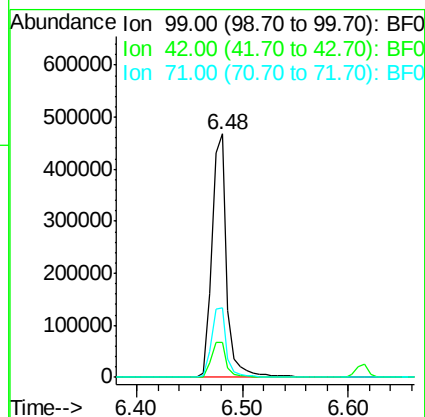
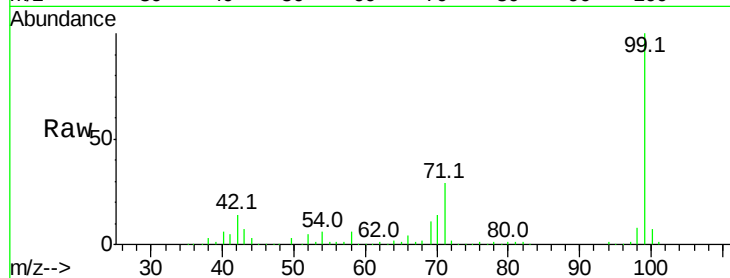
ClientSampled :

SOILPILE

Tot Ion:	99	Resp:	461077
Ion Ratio	Lower	Upper	
99	100		
42	14.2	14.5	21.7#
71	28.8	25.4	38.0

Manual Integrations
APPROVED

Sohil
10/17/2017 5:01:59 PM



#10

Phenol

Concen: 3.223 ng

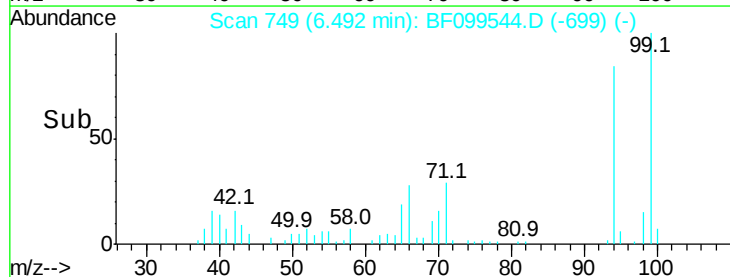
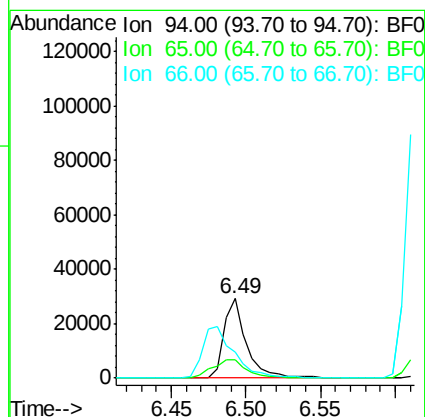
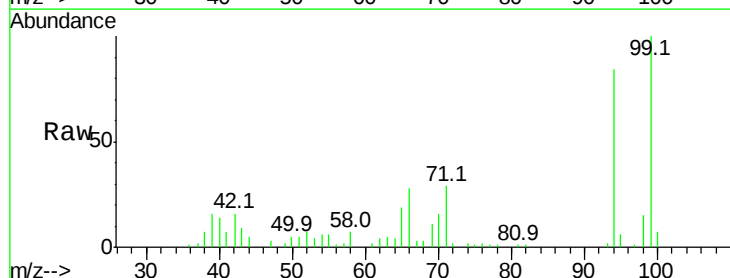
RT: 6.49 min Scan# 749

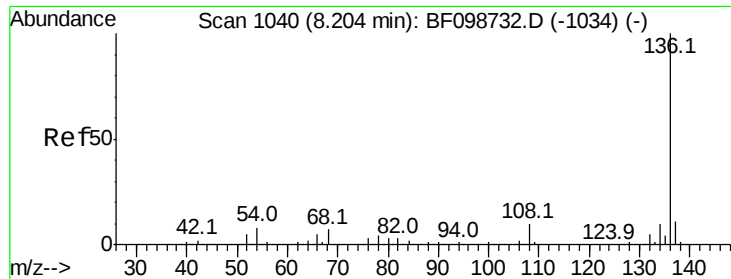
Delta R.T. -0.01 min

Lab File: BF099544.D

Acq: 16 Oct 2017 15:08

Tgt Ion:	94	Resp:	31237
Ion Ratio	Lower	Upper	
94	100		
65	22.6	7.9	47.9
66	33.0	16.2	56.2





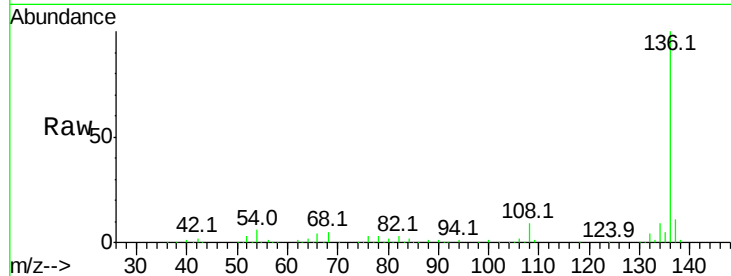
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Instrument :
BNA_F
ClientSampleId :
SOILPILE

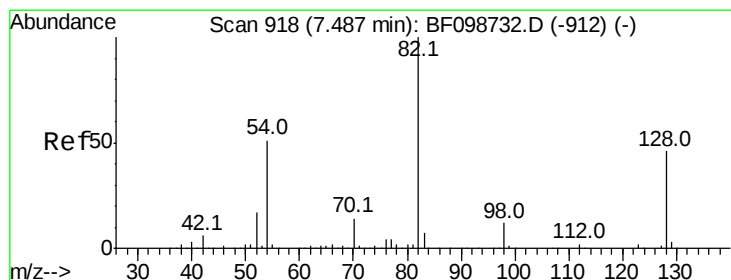
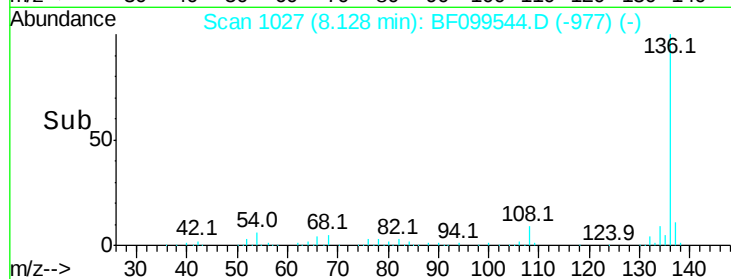
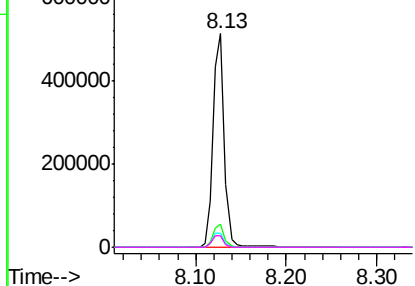
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.8	8.9	13.3	
54	6.4	6.6	9.8	
68	5.4	5.0	7.4	

Manual Integrations
APPROVED

Sohil
10/17/2017 5:01:59 PM

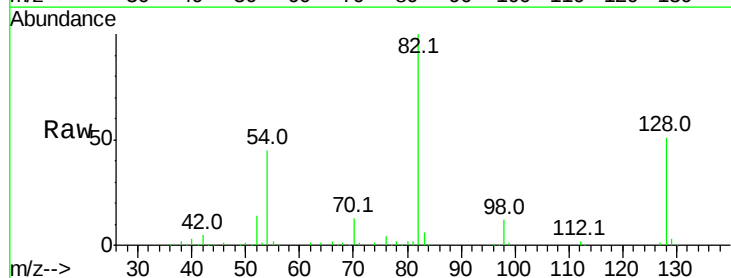


Abundance Ion 136.00 (135.70 to 136.70): E
800000
Ion 137.00 (136.70 to 137.70): E
600000
Ion 54.00 (53.70 to 54.70): BF0
400000
Ion 68.00 (67.70 to 68.70): BF0
200000
0

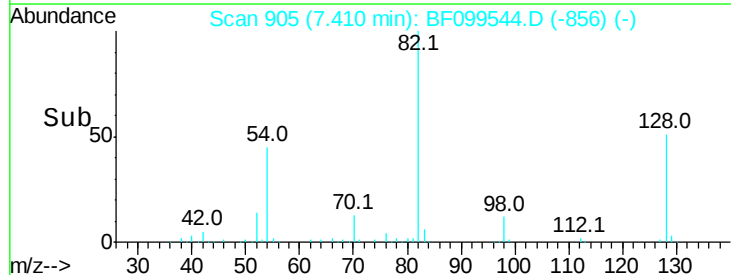
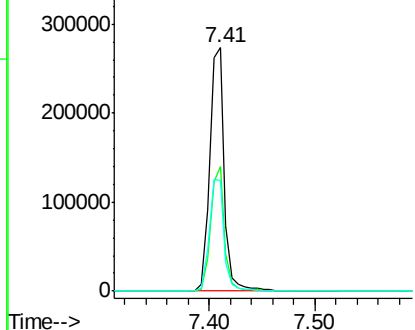


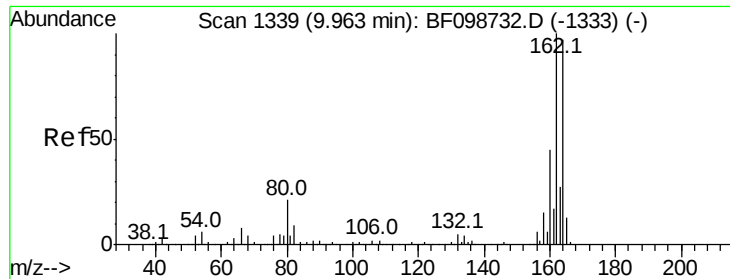
#23
Nitrobenzene-d5
Concen: 37.964 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	51.0	36.1	54.1	
54	45.3	41.4	62.2	



Abundance Ion 82.00 (81.70 to 82.70): BF0
300000
Ion 128.00 (127.70 to 128.70): E
200000
Ion 54.00 (53.70 to 54.70): BF0
100000
0





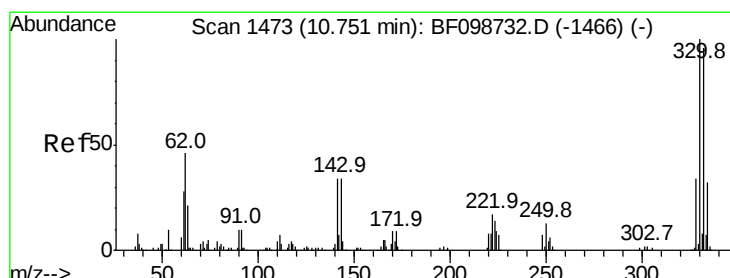
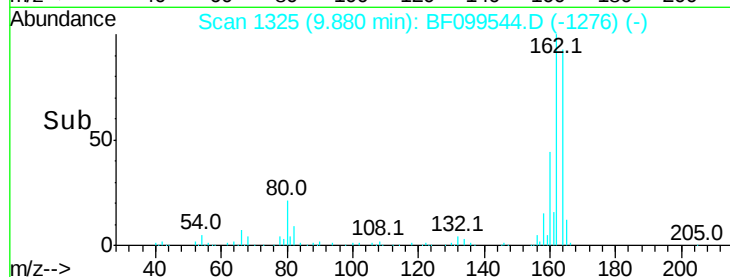
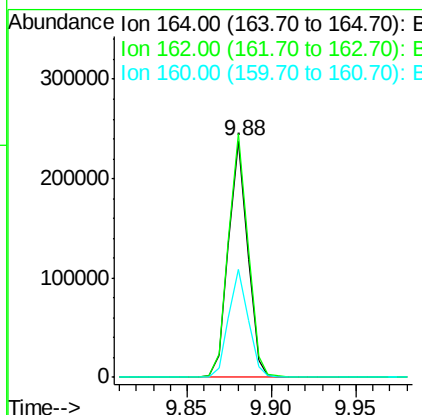
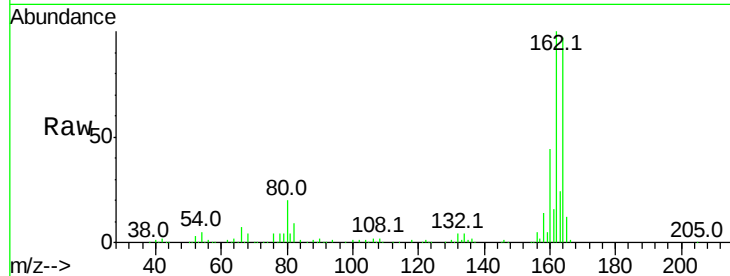
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: BF099544.D
 Acq: 16 Oct 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 SOILPILE

Tot Ion	Ratio	Resp	Lower	Upper
164	100	189266		
162	103.1	86.1	129.1	
160	45.6	38.3	57.5	

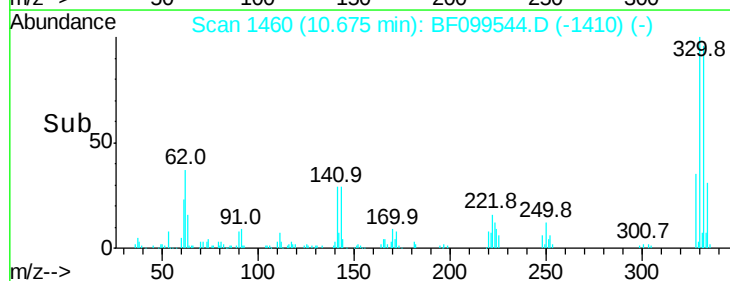
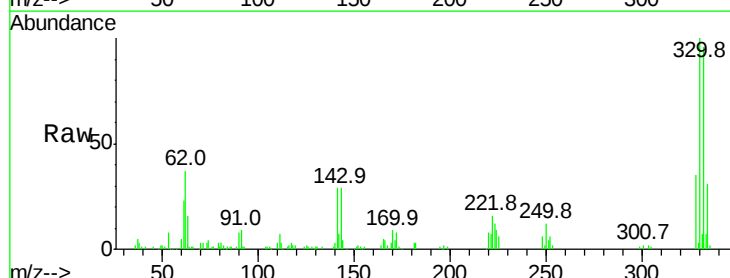
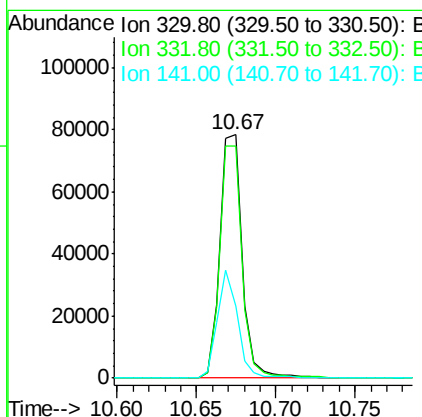
Manual Integrations
 APPROVED

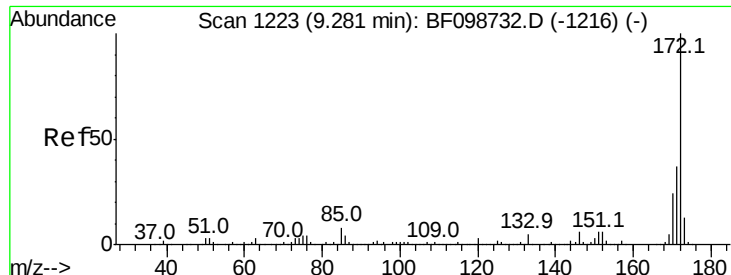
Sohil
 10/17/2017 5:01:59 PM



#41
 2,4,6-Tribromophenol
 Concen: 49.329 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: BF099544.D
 Acq: 16 Oct 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	76397		
332	95.8	77.0	115.6	
141	40.3	29.9	44.9	





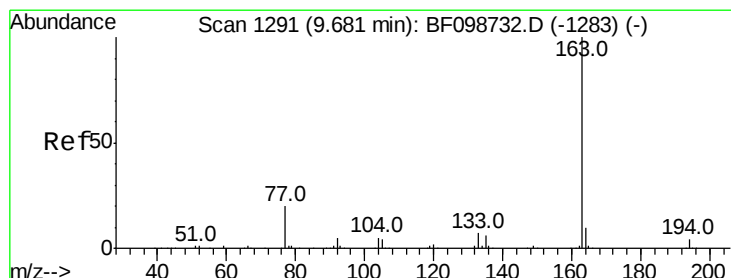
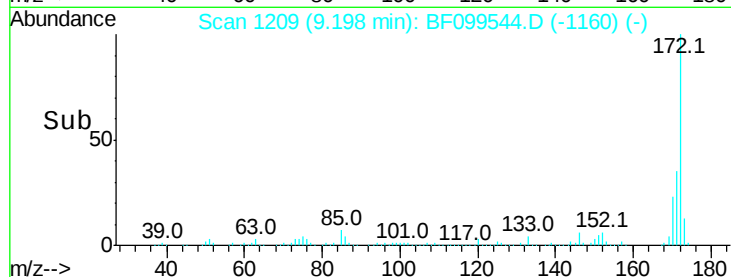
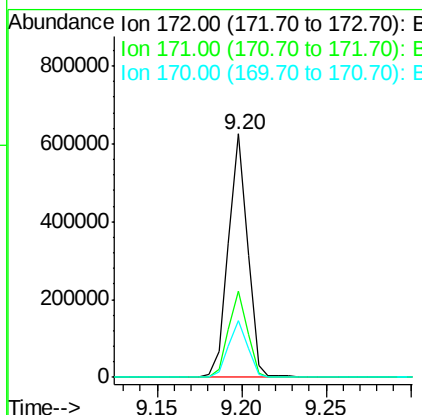
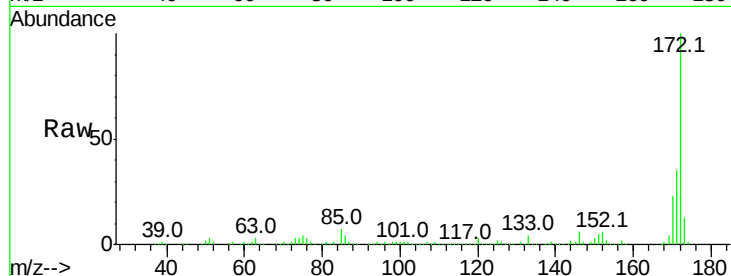
#44
2-Fluorobiphenyl
Concen: 43.698 ng
RT: 9.20 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Instrument :
BNA_F
ClientSampleId :
SOILPILE

Tot Ion	Ratio	Resp	Lower	Upper
172	100	495419		
171	35.2		29.7	44.5
170	23.4		19.6	29.4

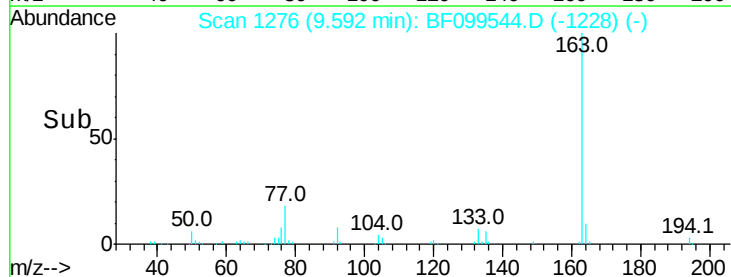
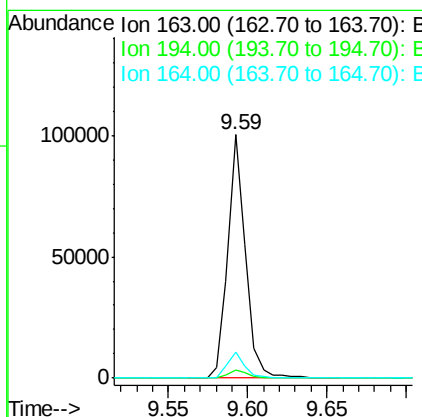
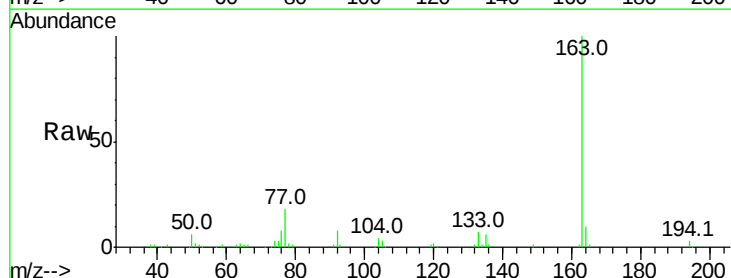
Manual Integrations
APPROVED

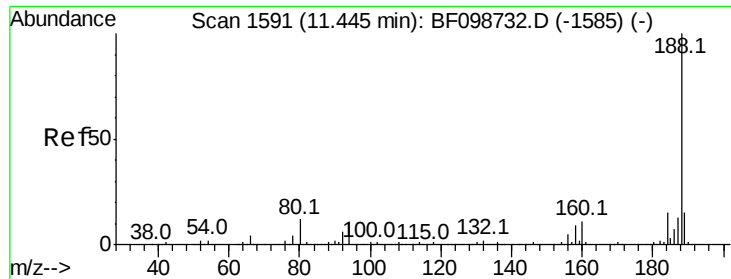
Sohil
10/17/2017 5:01:59 PM



#49
Dimethylphthalate
Concen: 5.430 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	77565		
194	3.4		2.7	4.1
164	10.5		8.2	12.2





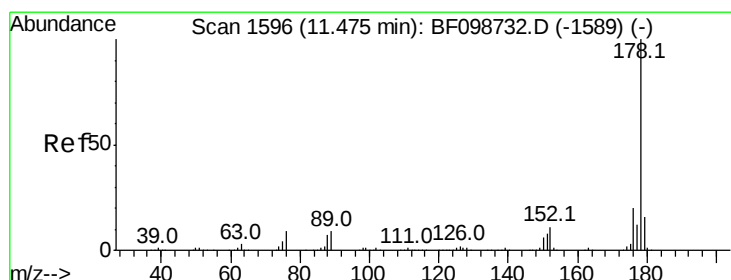
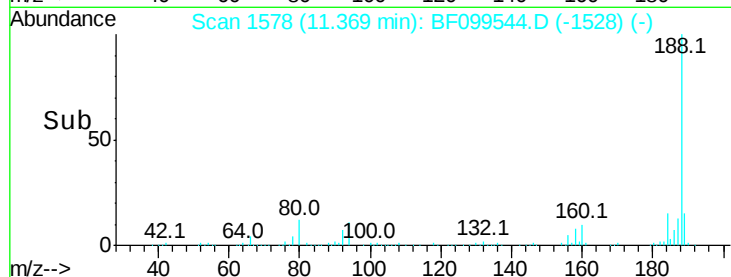
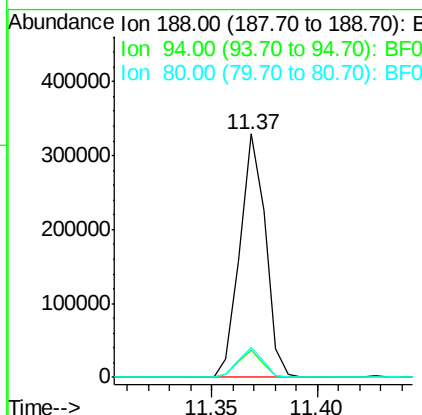
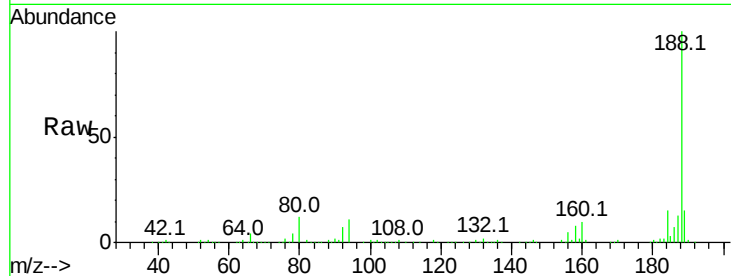
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Instrument :
BNA_F
ClientSampleId :
SOILPILE

Tot Ion	Ratio	Resp	Lower	Upper
188	100	276113		
94	11.4		8.5	12.7
80	12.3		9.2	13.8

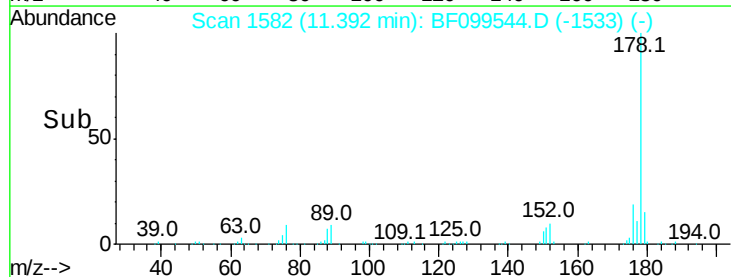
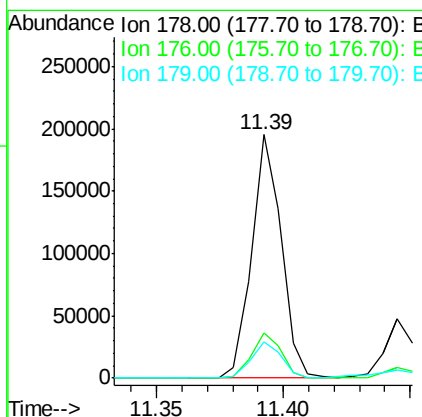
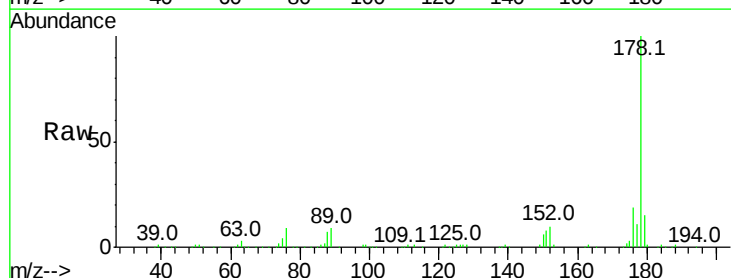
Manual Integrations
APPROVED

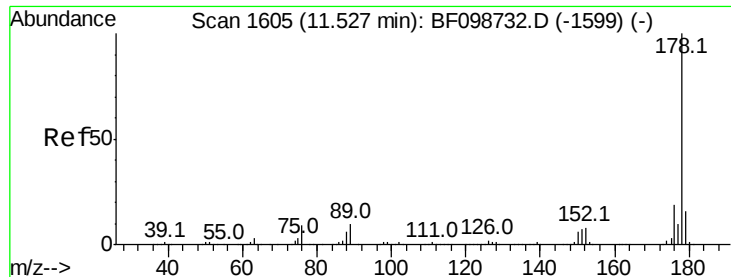
Sohil
10/17/2017 5:01:59 PM



#70
Phenanthrene
Concen: 10.803 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	159669		
176	18.6		15.8	23.8
179	15.0		13.0	19.6





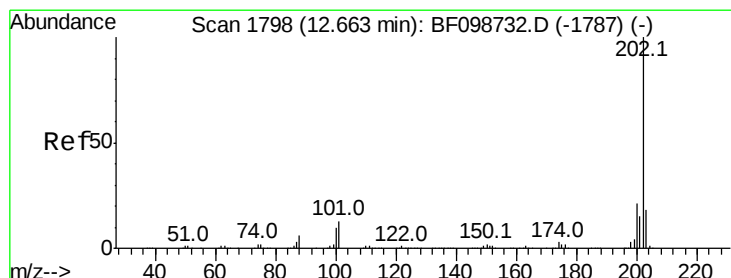
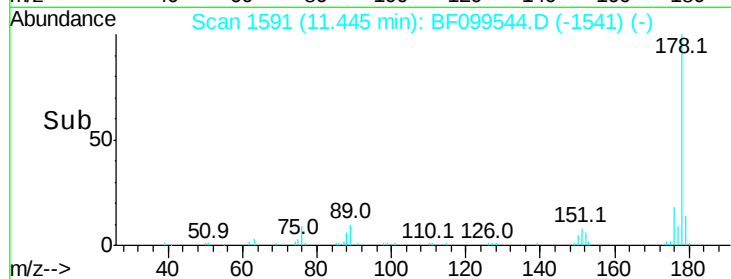
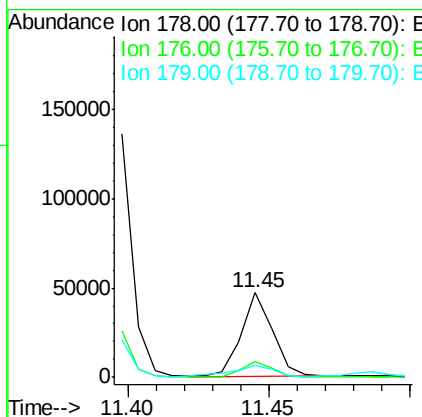
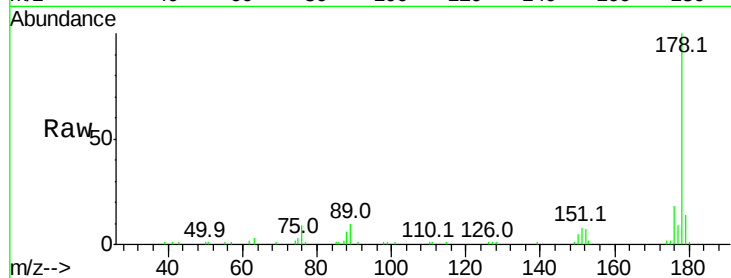
#71
 Anthracene
 Concen: 2.389 ng
 RT: 11.45 min Scan# 1591
 Delta R.T. -0.01 min
 Lab File: BF099544.D
 Acq: 16 Oct 2017 15:08

Instrument :
 BNA_F
 ClientSampled :
 SOILPILE

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	14.0	12.6	19.0

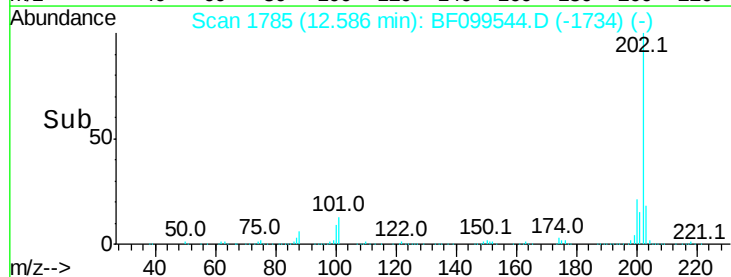
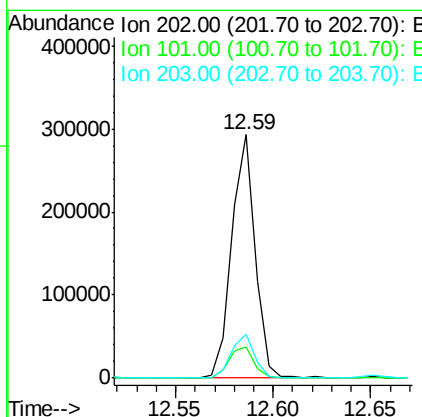
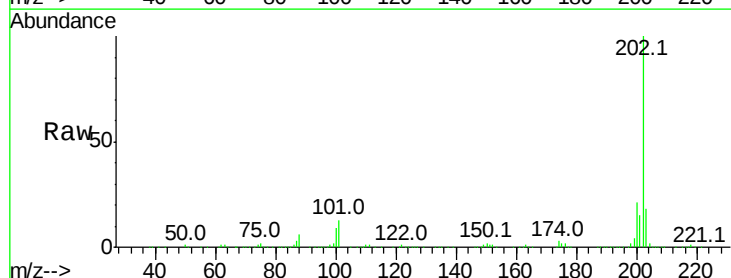
Manual Integrations
 APPROVED

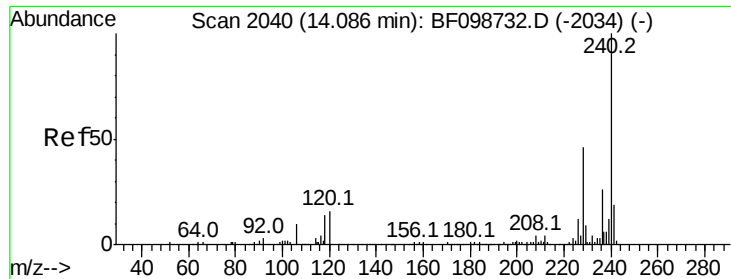
Sohil
 10/17/2017 5:01:59 PM



#74
 Fluoranthene
 Concen: 16.297 ng
 RT: 12.59 min Scan# 1785
 Delta R.T. 0.00 min
 Lab File: BF099544.D
 Acq: 16 Oct 2017 15:08

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	34.1
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF099544.D

Acq: 16 Oct 2017 15:08

Instrument :

BNA_F

ClientSampled :

SOILPILE

Tot Ion:240 Resp: 187037
Ion Ratio Lower Upper

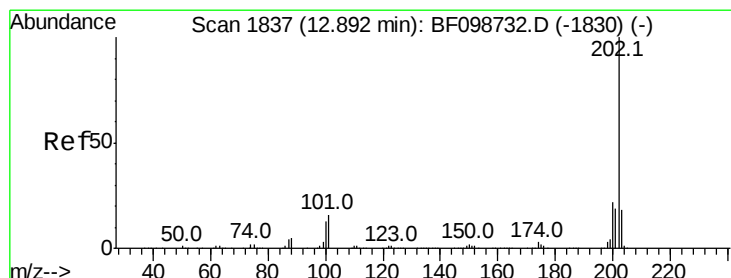
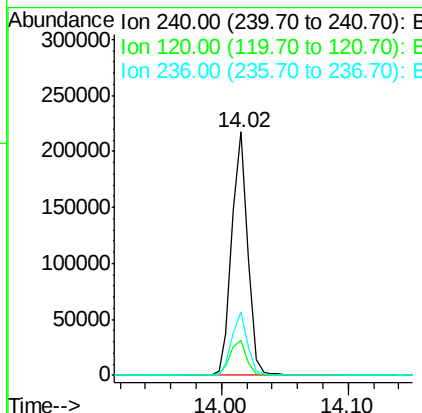
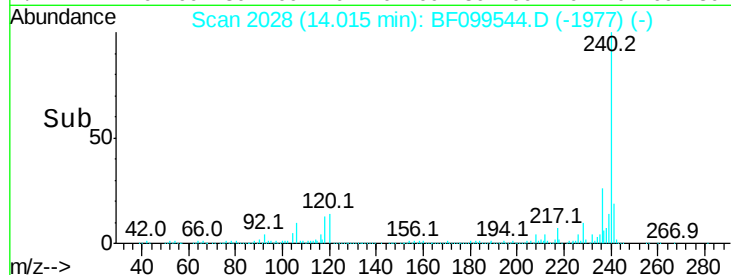
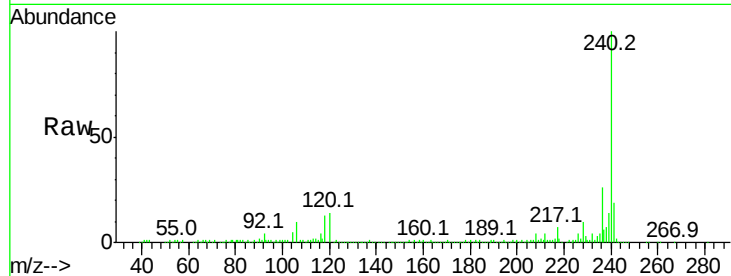
240 100

120 14.4 9.5 14.3#

236 25.8 20.7 31.1

Manual Integrations
APPROVED

Sohil
10/17/2017 5:01:59 PM



#77

Pyrene

Concen: 15.278 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF099544.D

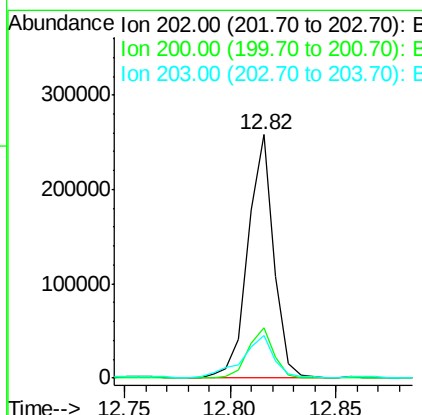
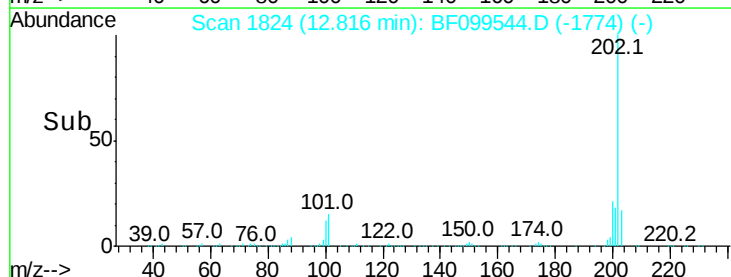
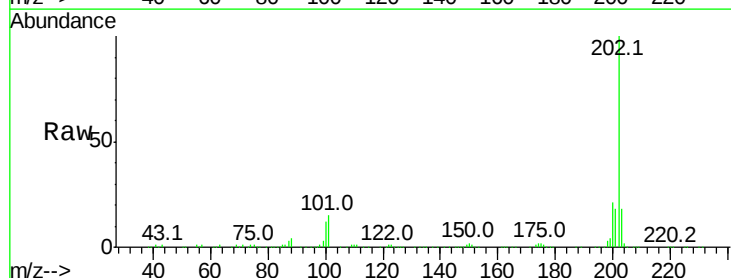
Acq: 16 Oct 2017 15:08

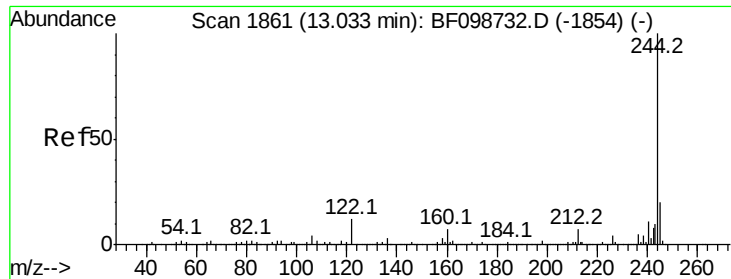
Tgt Ion:202 Resp: 217896
Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

203 17.6 14.3 21.5





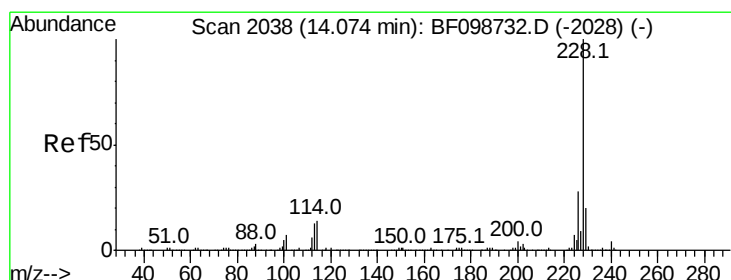
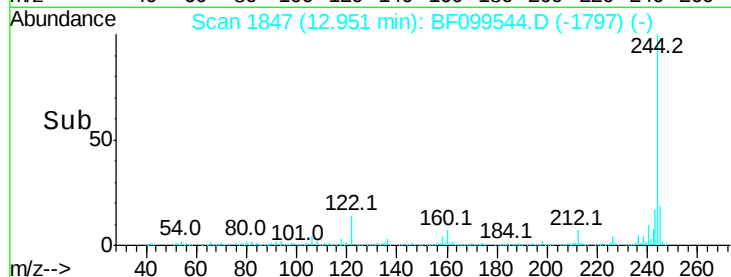
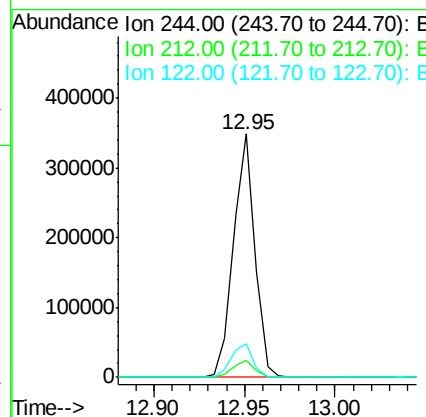
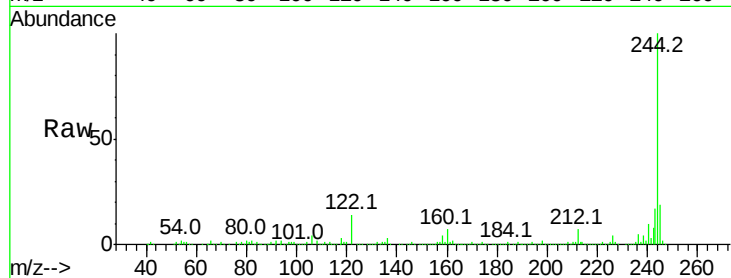
#78
 Terphenyl-d14
 Concen: 34.862 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BF099544.D
 Acq: 16 Oct 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 SOILPILE

Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	7.0	5.4	8.0
122	13.8	11.0	16.4

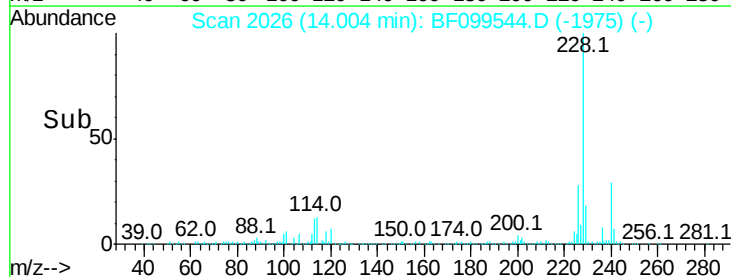
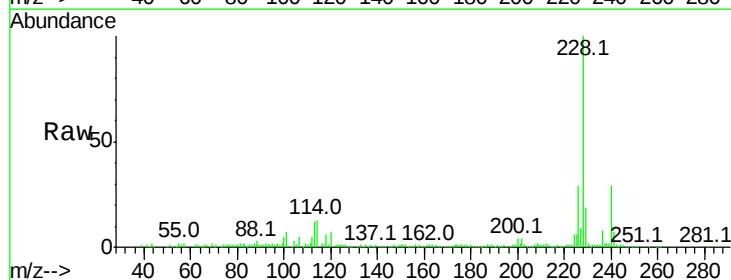
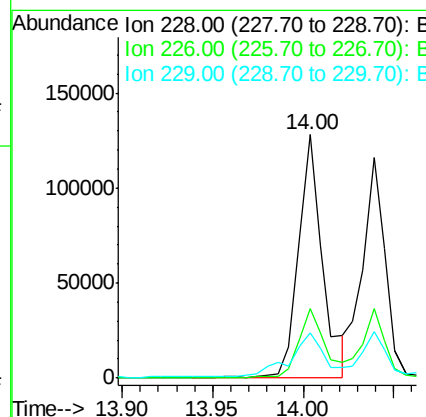
Manual Integrations
 APPROVED

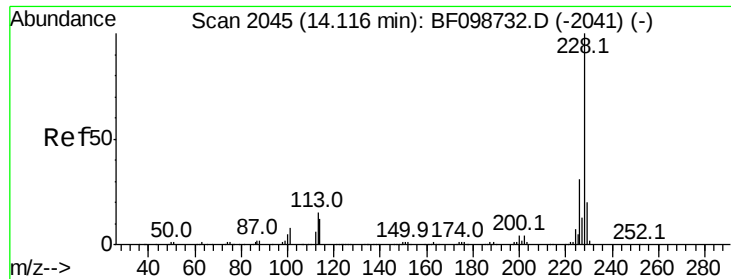
Sohil
 10/17/2017 5:01:59 PM



#80
 Benzo(a)anthracene
 Concen: 10.671 ng
 RT: 14.00 min Scan# 2026
 Delta R.T. 0.00 min
 Lab File: BF099544.D
 Acq: 16 Oct 2017 15:08

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	28.5	22.6	33.8
229	18.6	15.8	23.6





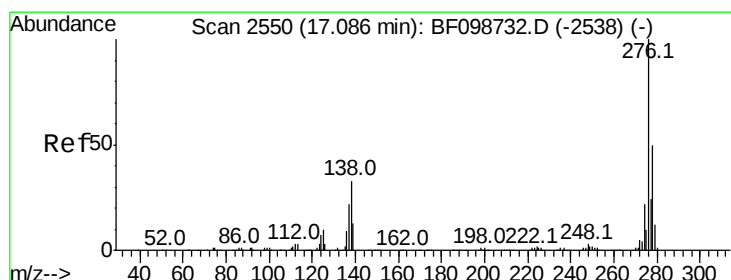
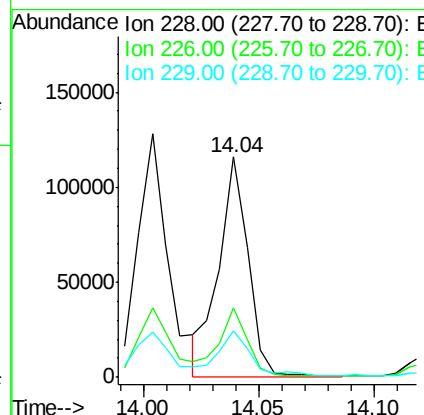
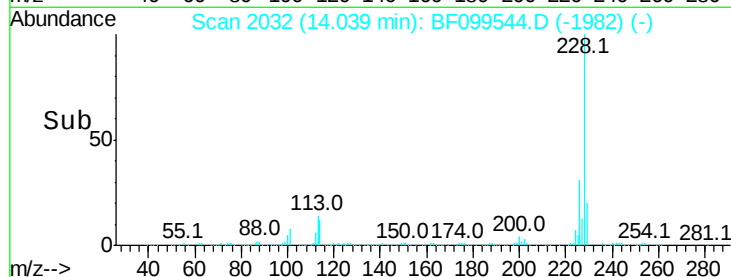
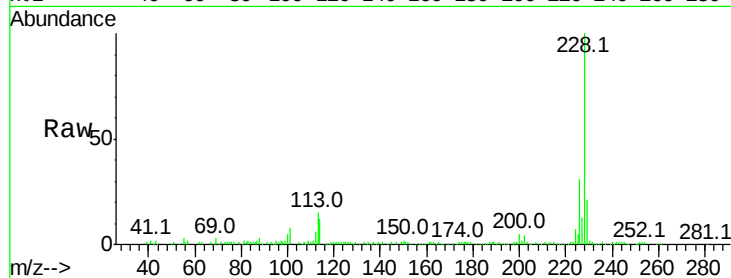
#82
Chrysene
Concen: 9.482 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Instrument :
BNA_F
ClientSampleId :
SOILPILE

Tot Ion:	228	Resp:	102239
Ion Ratio	Lower	Upper	
228	100		
226	31.4	25.0	37.6
229	21.4	16.2	24.4

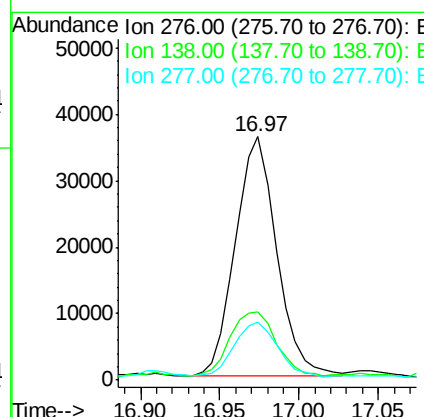
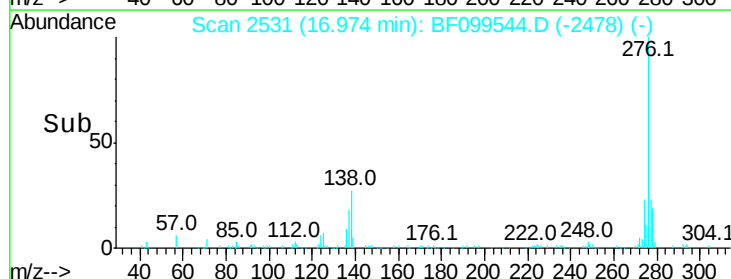
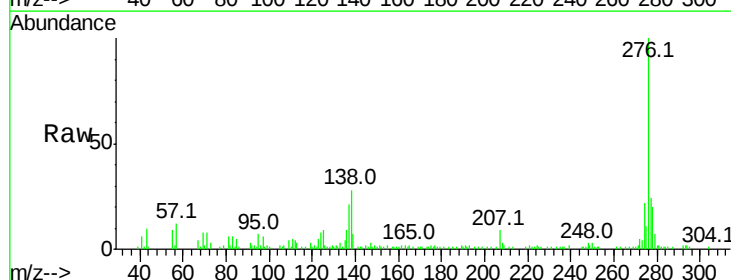
Manual Integrations
APPROVED

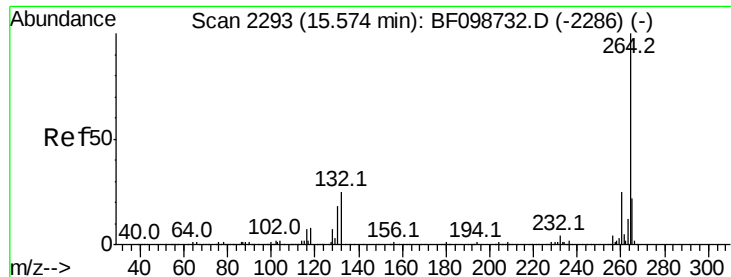
Sohil
10/17/2017 5:01:59 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 7.567 ng
RT: 16.97 min Scan# 2531
Delta R.T. 0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Tgt Ion:	276	Resp:	65265
Ion Ratio	Lower	Upper	
276	100		
138	30.4	25.0	37.6
277	24.6	20.1	30.1





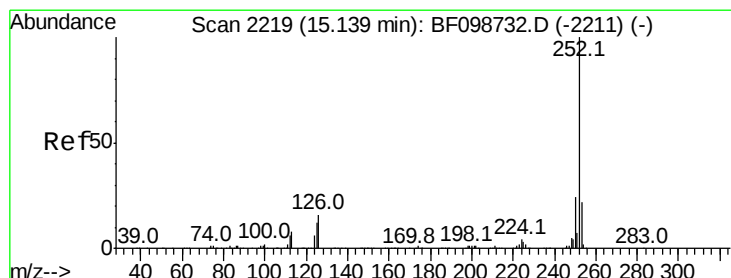
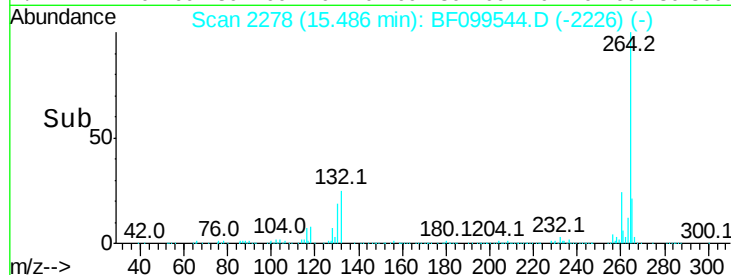
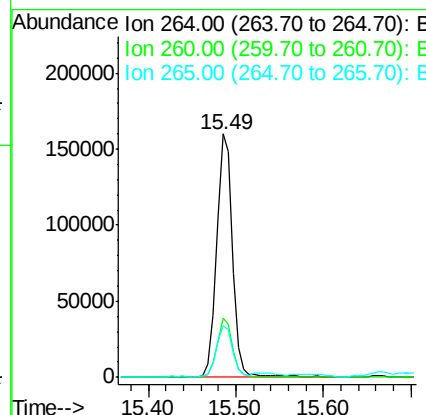
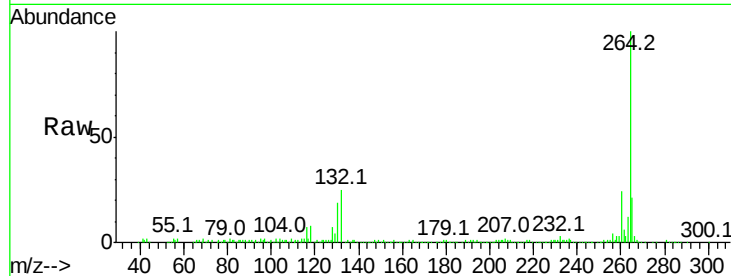
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Instrument :
BNA_F
ClientSampleId :
SOILPILE

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	21.2	17.5	26.3

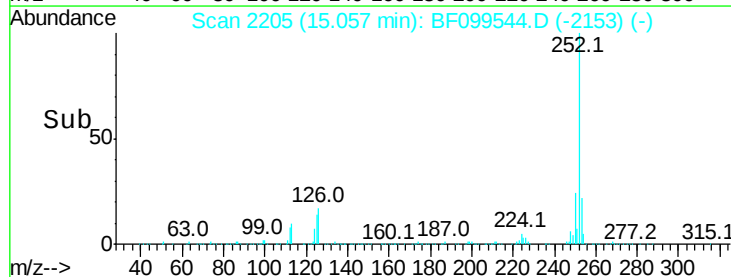
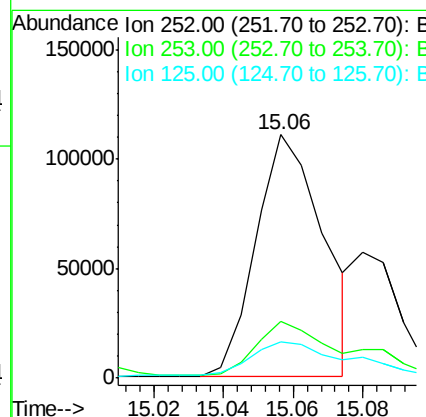
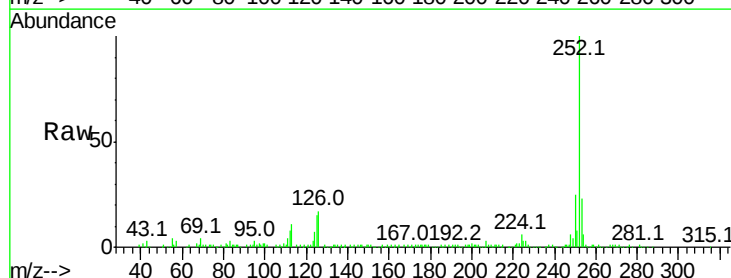
Manual Integrations
APPROVED

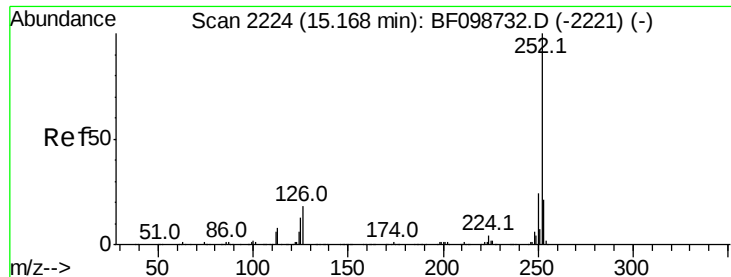
Sohil
10/17/2017 5:01:59 PM



#87
Benzo(b)fluoranthene
Concen: 12.147 ng m
RT: 15.06 min Scan# 2205
Delta R.T. 0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	15.0	9.0	13.6#





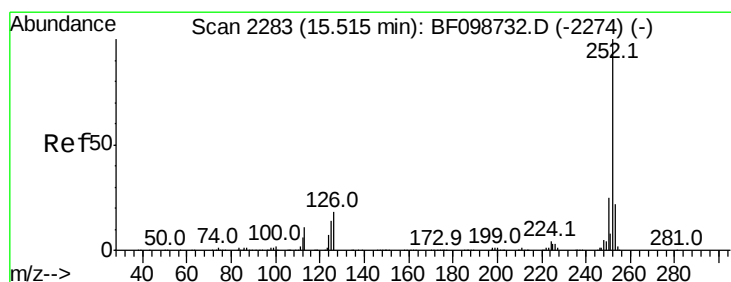
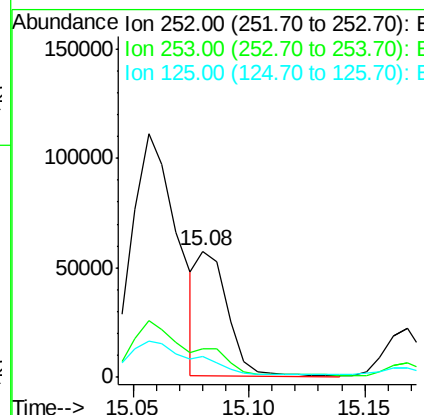
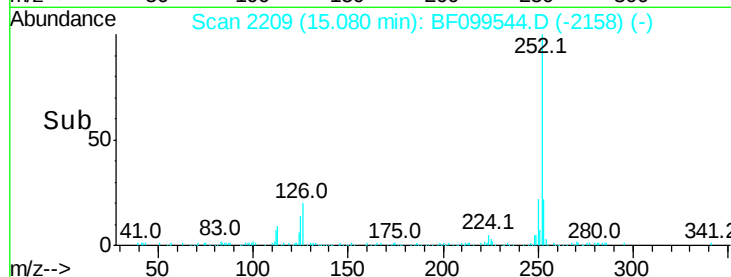
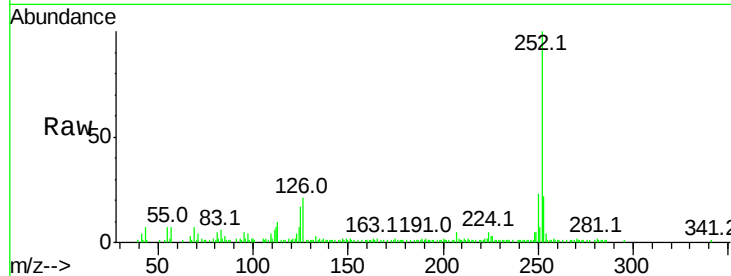
#88
Benzo(k)fluoranthene
Concen: 4.198 ng
RT: 15.08 min Scan# 2209
Delta R.T. 0.00 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Instrument :
BNA_F
ClientSampled :
SOILPILE

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	16.5	10.2	15.2

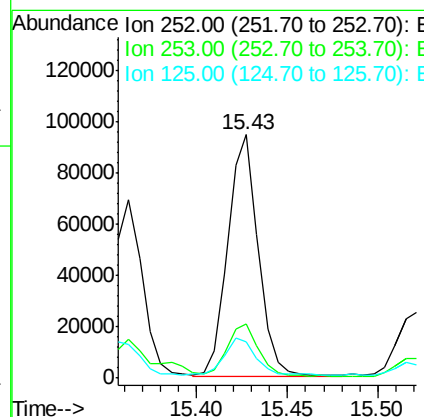
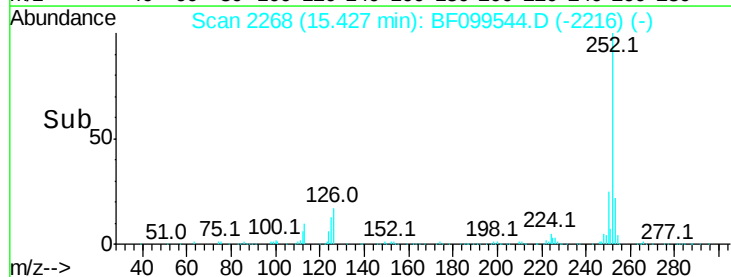
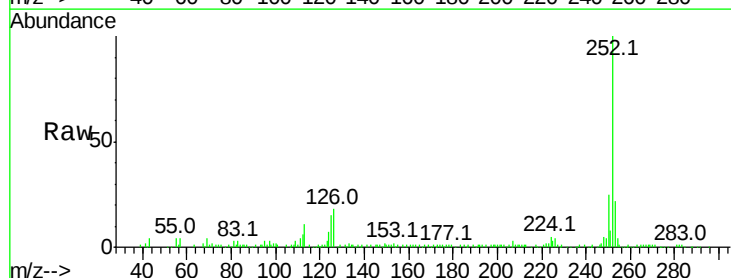
Manual Integrations
APPROVED

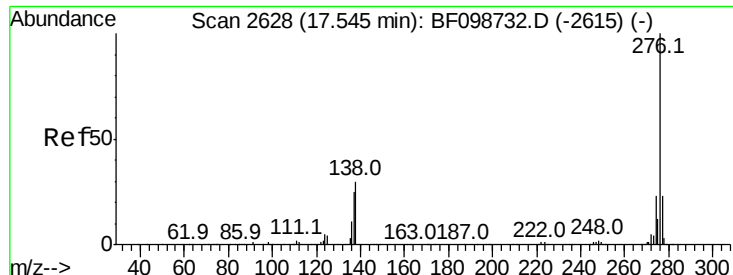
Sohil
10/17/2017 5:01:59 PM



#89
Benzo(a)pyrene
Concen: 9.643 ng
RT: 15.43 min Scan# 2268
Delta R.T. 0.01 min
Lab File: BF099544.D
Acq: 16 Oct 2017 15:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	14.9	9.8	14.6





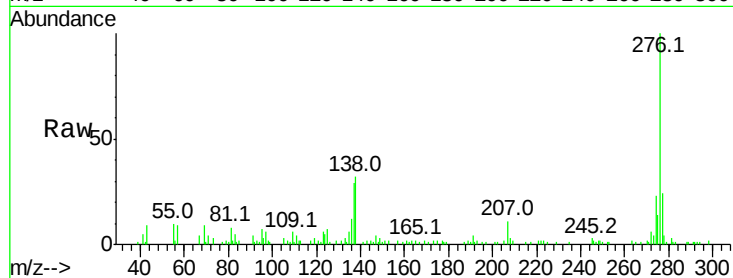
#91
 Benzo(a,h,i)perylene
 Concen: 6.698 ng
 RT: 17.42 min Scan# 2607
 Delta R.T. 0.01 min
 Lab File: BF099544.D
 Acq: 16 Oct 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 SOILPILE

Tot Ion:	276	Resp:	60649
Ion Ratio	Lower	Upper	
276	100		
277	24.5	17.9	26.9
138	31.9	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 10/17/2017 5:01:59 PM



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E

