

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
 Data File : BF113848.D
 Acq On : 19 Apr 2019 8:31
 Operator : JU/SJ
 Sample : K2435-01DL 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BWM-S1-SOIL-PILEDL

Manual Integrations
 APPROVED

Sohil
 4/23/2019 8:16:58 AM

Quant Time: Apr 19 09:07:53 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF041819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 18 13:55:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	139615	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	480077	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	231987	20.00	ng	0.00
64) Phenanthrene-d10	11.42	188	482659	20.00	ng	0.00
76) Chrysene-d12	14.05	240	496862	20.00	ng	0.00
87) Perylene-d12	15.52	264	407612	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	158493	18.88	ng	0.00
7) Phenol-d6	6.51	99	195999	18.72	ng	0.00
23) Nitrobenzene-d5	7.45	82	101034	12.82	ng	-0.01
42) 2,4,6-Tribromophenol	10.72	330	53726	20.96	ng	0.00
45) 2-Fluorobiphenyl	9.25	172	207831	13.66	ng	0.00
79) Terphenyl-d14	12.99	244	310638	13.11	ng	0.00
Target Compounds						
31) Naphthalene	8.20	128	130173	5.733	ng	98
37) 2-Methylnaphthalene	8.89	142	48112	3.193	ng	98
38) 1-Methylnaphthalene	8.99	142	36736	2.513	ng	99
49) Acenaphthylene	9.79	152	63931	2.844	ng	96
52) Acenaphthene	9.96	154	68199	5.173	ng	95
55) Dibenzofuran	10.13	168	132663	6.717	ng	99
58) Fluorene	10.47	166	95799	6.503	ng	99
71) Phenanthrene	11.44	178	1279974	52.069	ng	99
72) Anthracene	11.49	178	314040	12.678	ng	99
73) Carbazole	11.64	167	147974	6.579	ng	97
75) Fluoranthene	12.63	202	1351338	51.870	ng	99
78) Pyrene	12.86	202	1252189	35.760	ng	99
81) Benzo(a)anthracene	14.04	228	683411	23.530	ng	98
83) Chrysene	14.07	228	559853	19.420	ng	96
86) Indeno(1,2,3-cd)pyrene	16.99	276	176066	7.481	ng	95
88) Benzo(b)fluoranthene	15.09	252	561878m	22.112	ng	
89) Benzo(k)fluoranthene	15.12	252	178796m	7.725	ng	
90) Benzo(a)pyrene	15.46	252	370154	16.474	ng	98
91) Dibenzo(a,h)anthracene	17.00	278	50530m	2.527	ng	
92) Benzo(a,h,i)perylene	17.44	276	151731	7.467	ng	99

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

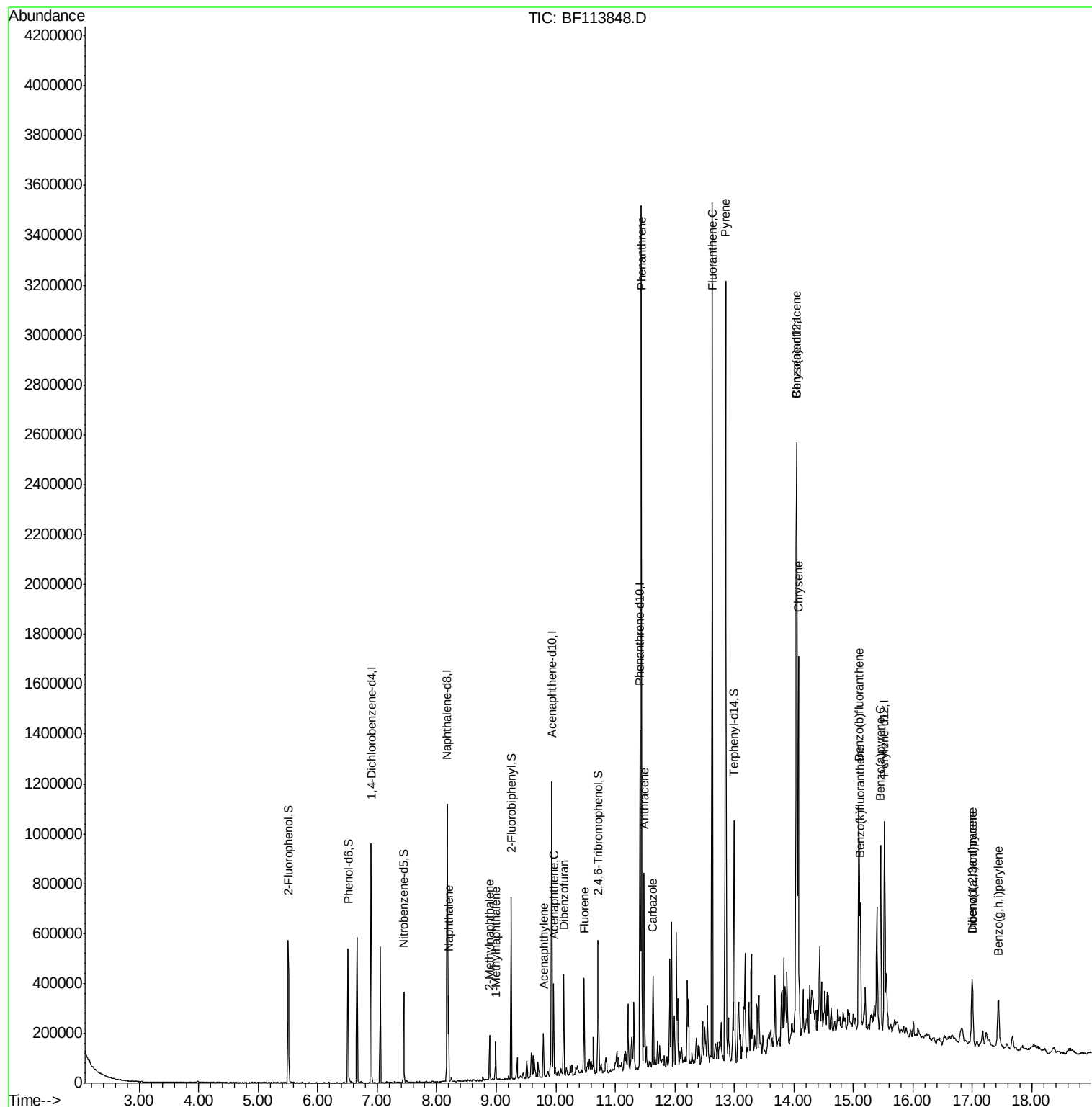
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
Data File : BF113848.D
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ALS Vial : 30 Sample Multiplier: 1

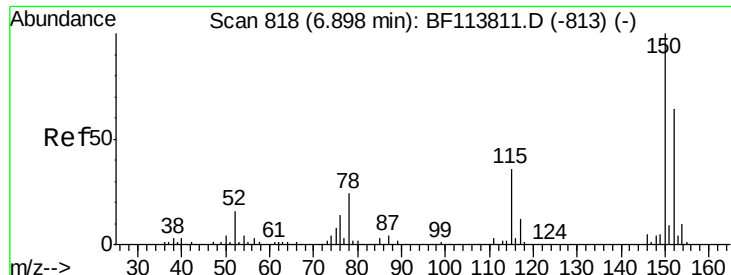
Instrument :
BNA_F
ClientSampleId :
BWM-S1-SOIL-PIEDL

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Quant Time: Apr 19 09:07:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

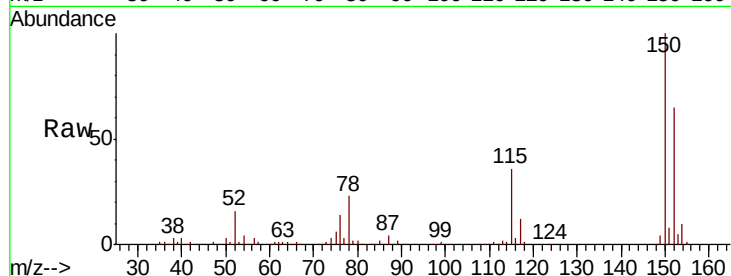
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.90 min Scan# 818
Delta R.T. -0.00 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Instrument :
BNA_F
ClientSampleId :
BWM-S1-SOIL-PILEDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.9	125.9	188.9
115	55.8	45.9	68.9

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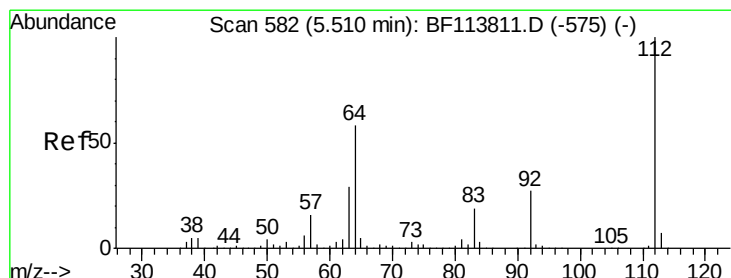
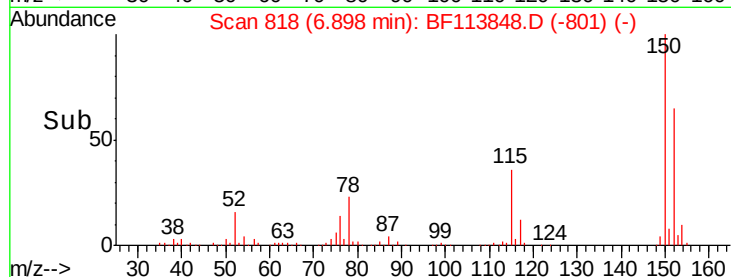
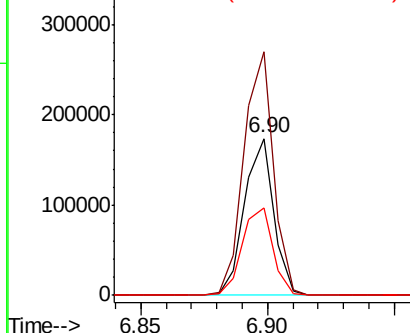


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

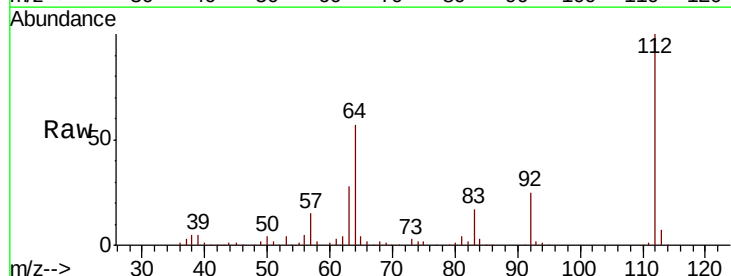
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 18.876 ng
RT: 5.50 min Scan# 581
Delta R.T. -0.01 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.7	46.6	69.8
63	27.9	23.1	34.7

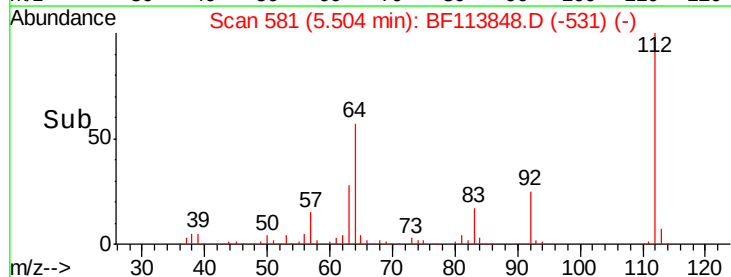
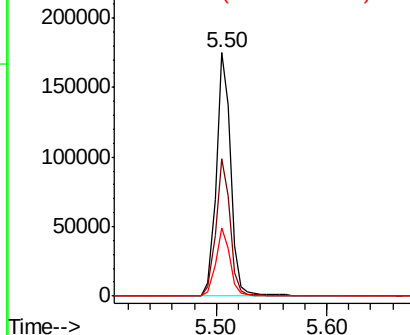


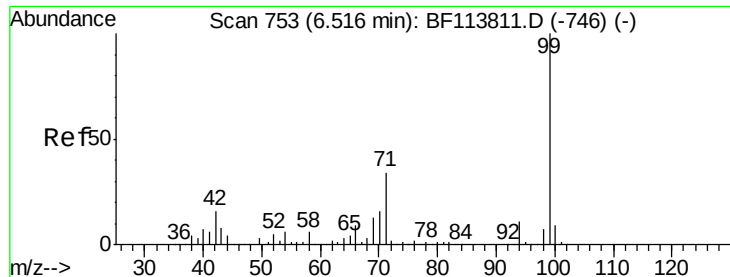
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 18.718 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

Instrument :

BNA_F

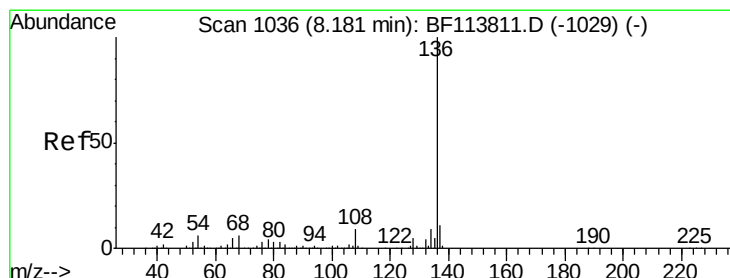
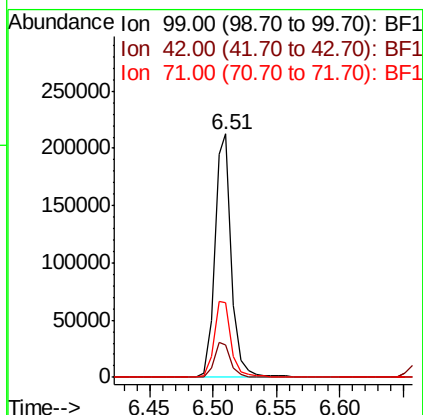
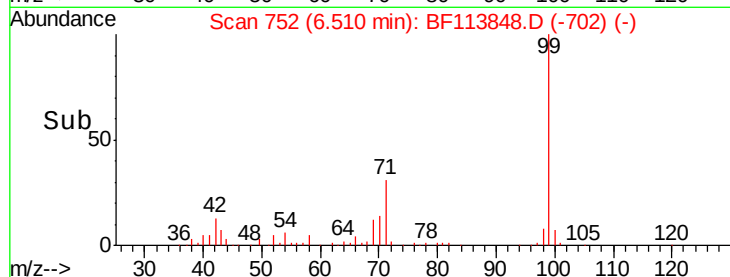
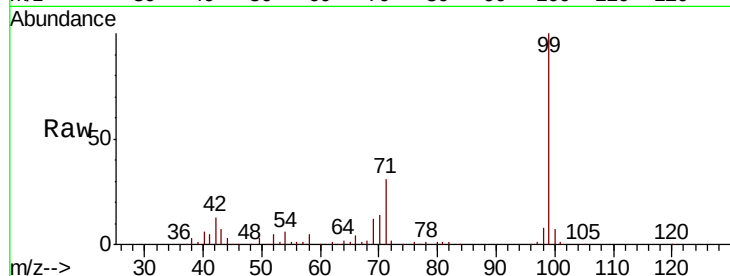
ClientSampleId :

BWM-S1-SOIL-PILEDL

Tot Ion:	99	Resp:	195999
Ion Ratio	Lower	Upper	
99	100		
42	13.4	12.5	18.7
71	30.7	26.9	40.3

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#21

Naphthalene-d8

Concen: 20.000 ng

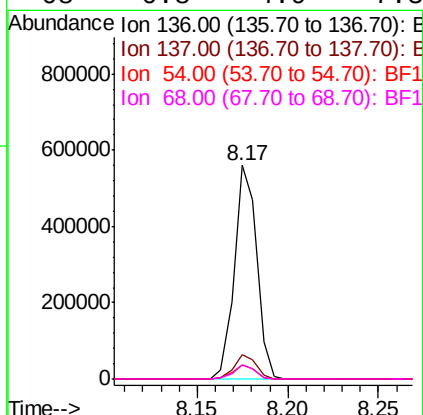
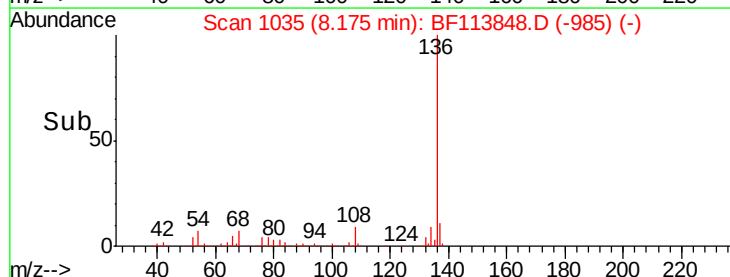
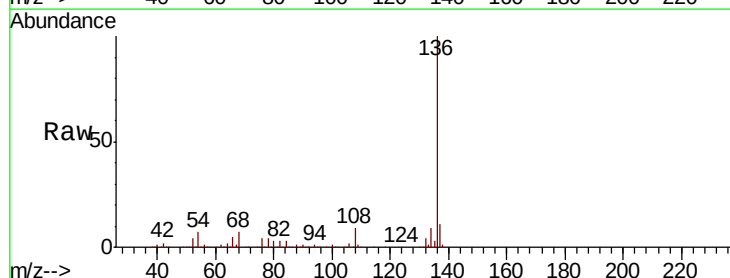
RT: 8.17 min Scan# 1035

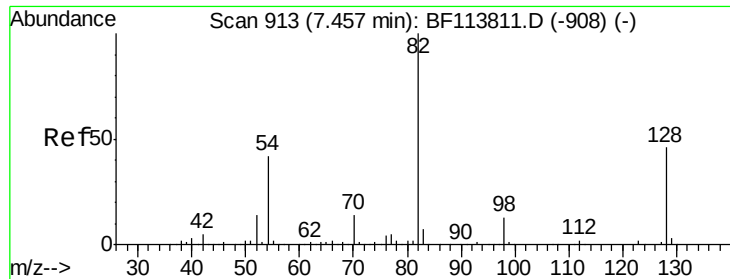
Delta R.T. -0.01 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

Tgt Ion:	136	Resp:	480077
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.6	12.8
54	6.8	5.0	7.6
68	6.8	4.9	7.3





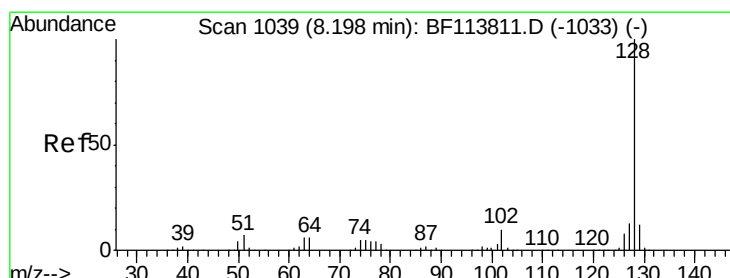
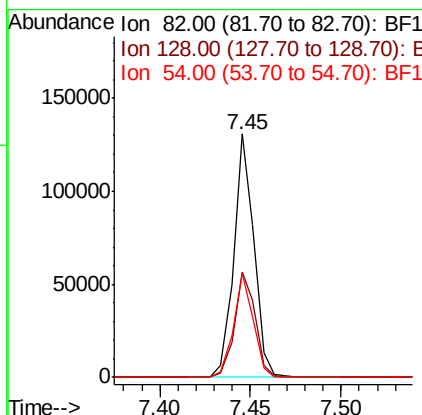
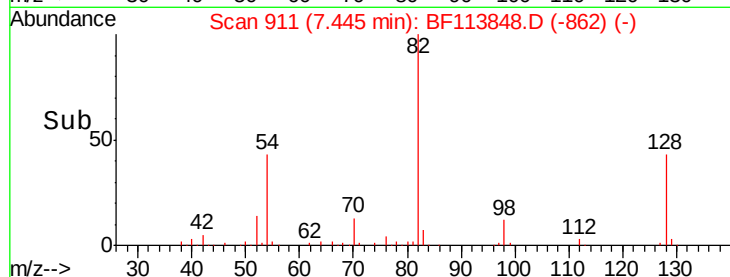
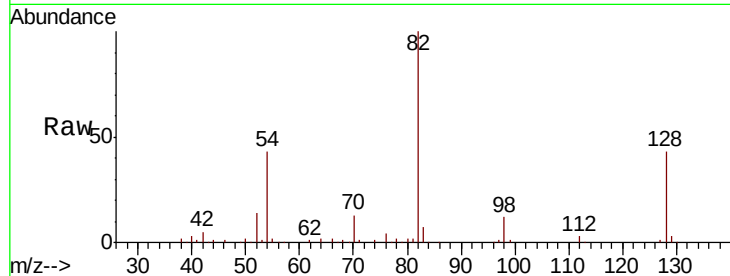
#23
Nitrobenzene-d5
Concen: 12.816 ng
RT: 7.45 min Scan# 911
Delta R.T. -0.01 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Instrument :
BNA_F
ClientSampleId :
BWM-S1-SOIL-PILEDL

Tot Ion	Ratio	Resp	Lower	Upper
82	100	101034		
128	43.3	36.8	55.2	
54	42.7	33.8	50.6	

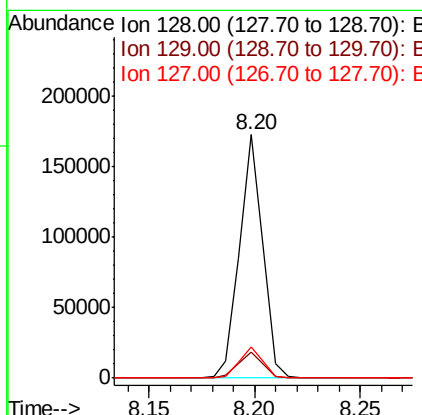
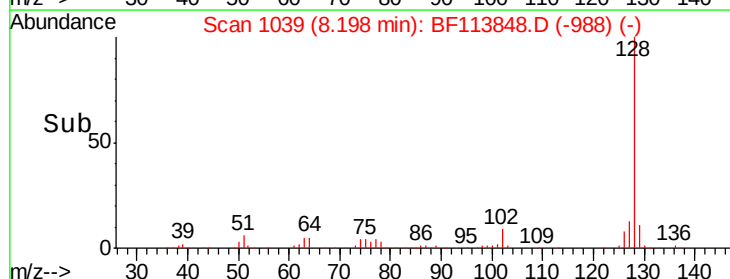
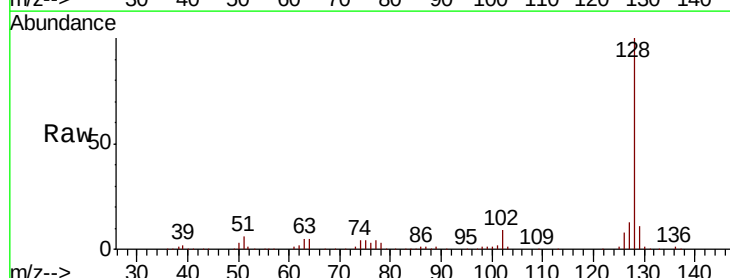
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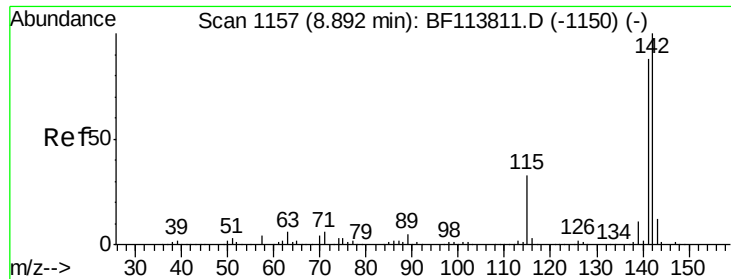
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#31
Naphthalene
Concen: 5.733 ng
RT: 8.20 min Scan# 1039
Delta R.T. -0.00 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	130173		
129	10.9	9.4	14.0	
127	12.9	10.8	16.2	





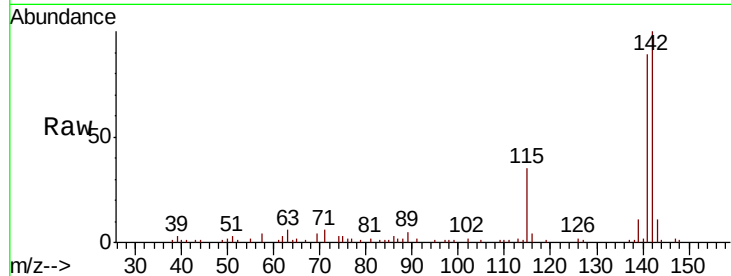
#37
2-Methylnaphthalene
Concen: 3.193 ng
RT: 8.89 min Scan# 1156
Delta R.T. -0.01 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Instrument :
BNA_F
ClientSampleId :
BWM-S1-SOIL-PILEDL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.5	70.4	105.6
115	34.8	26.3	39.5

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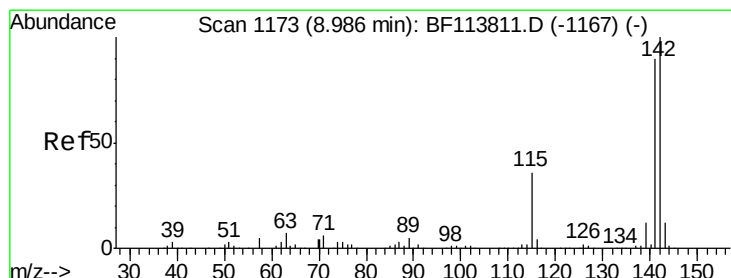
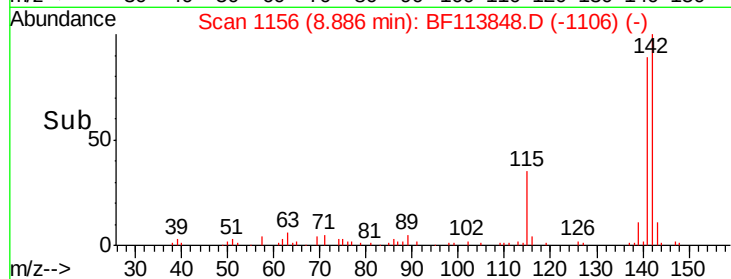
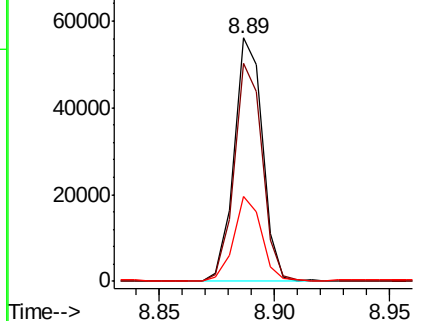


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 2.513 ng
RT: 8.99 min Scan# 1173
Delta R.T. -0.00 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

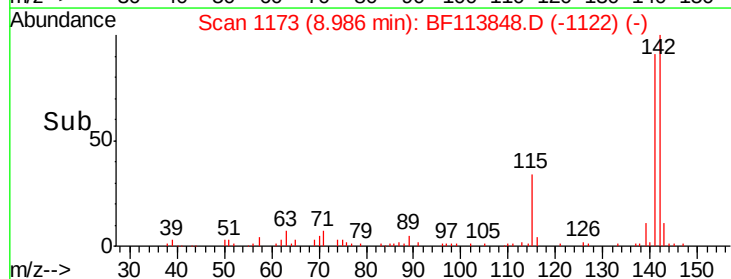
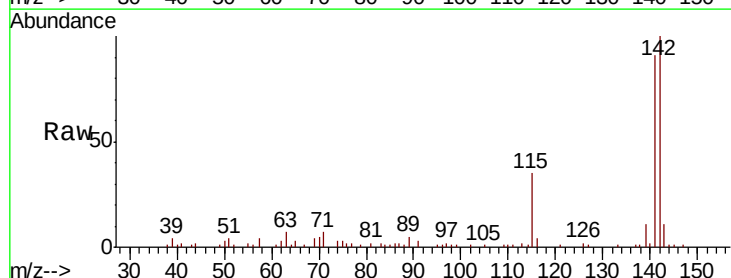
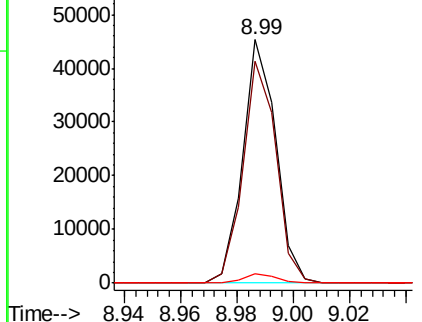
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.1	72.3	108.5
116	3.9	3.0	4.4

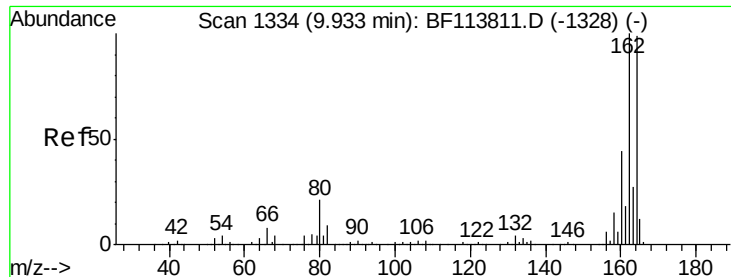
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





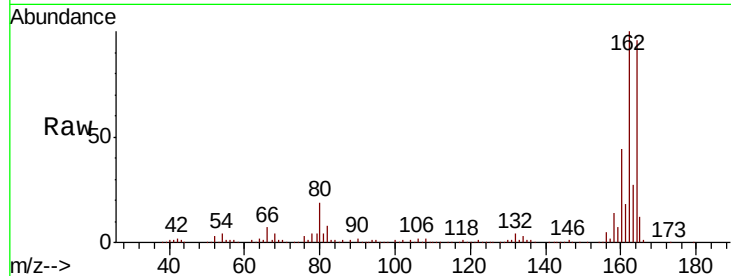
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.93 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: BF113848.D
 Acq: 19 Apr 2019 8:31

Instrument :
 BNA_F
 ClientSampleId :
 BWM-S1-SOIL-PILEDL

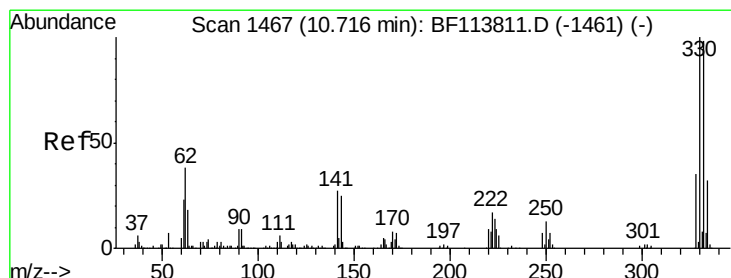
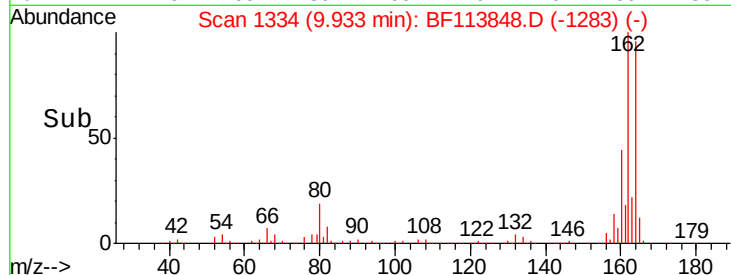
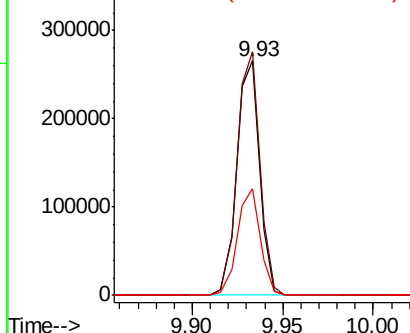
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.8	81.1	121.7	
160	45.5	35.8	53.6	

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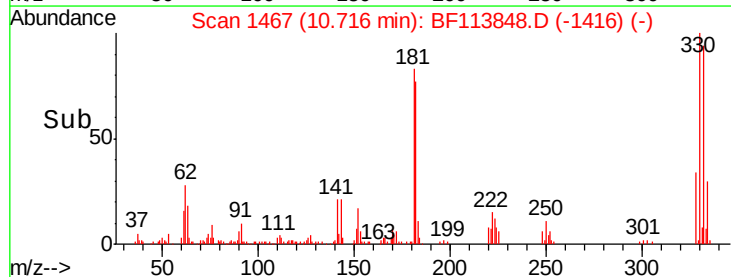
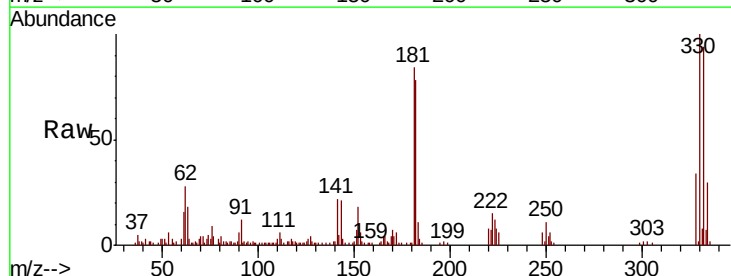
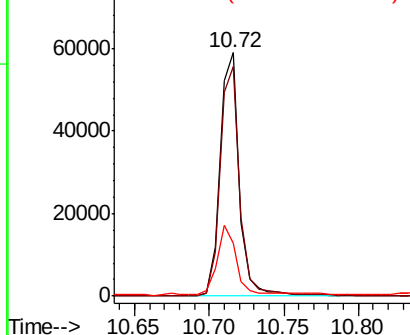
Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

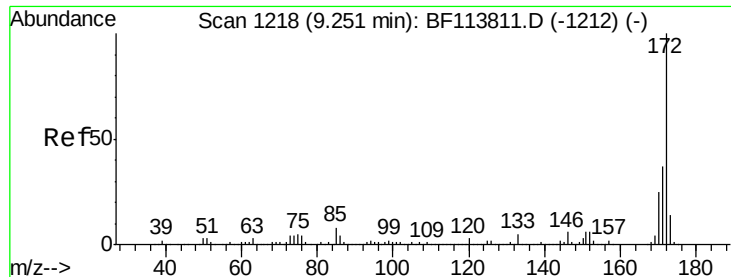


#42
 2,4,6-Tribromophenol
 Concen: 20.962 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. -0.00 min
 Lab File: BF113848.D
 Acq: 19 Apr 2019 8:31

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.3	77.5	116.3	
141	27.2	22.2	33.2	

Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E





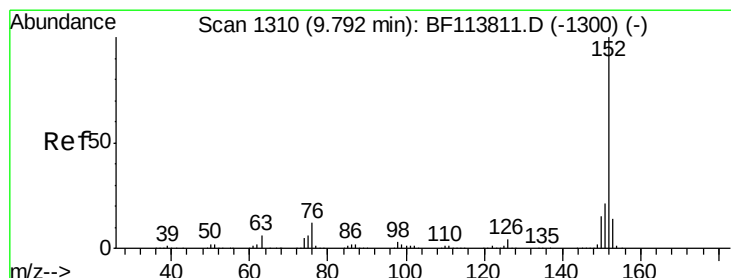
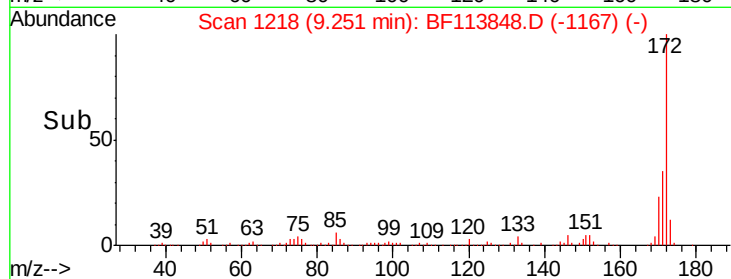
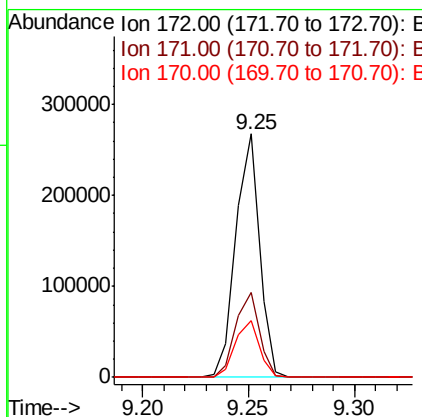
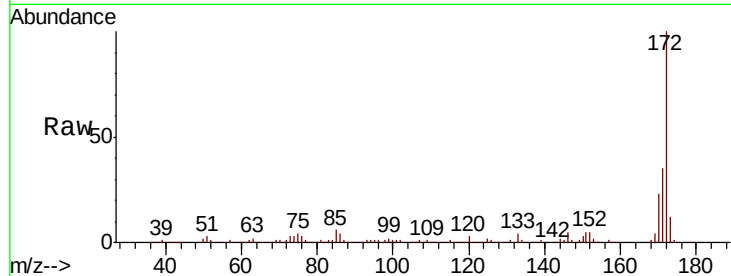
#45
2-Fluorobiphenyl
Concen: 13.662 ng
RT: 9.25 min Scan# 1218
Delta R.T. -0.00 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Instrument :
BNA_F
ClientSampleId :
BWM-S1-SOIL-PILEDL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	207831		
171	34.9		29.4	44.0
170	23.5		19.9	29.9

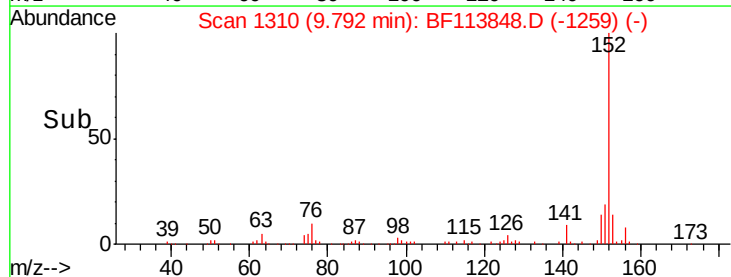
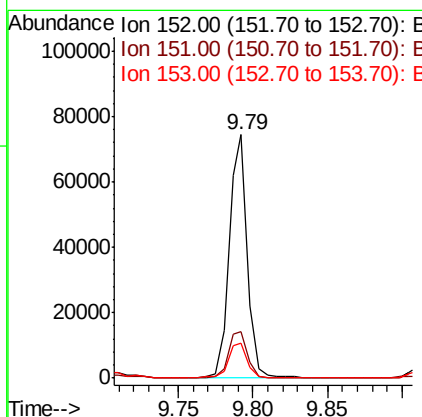
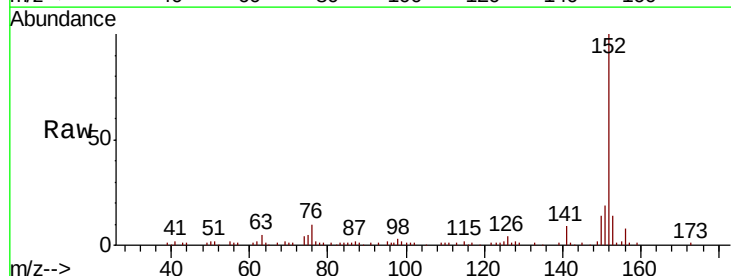
Manual Integrations
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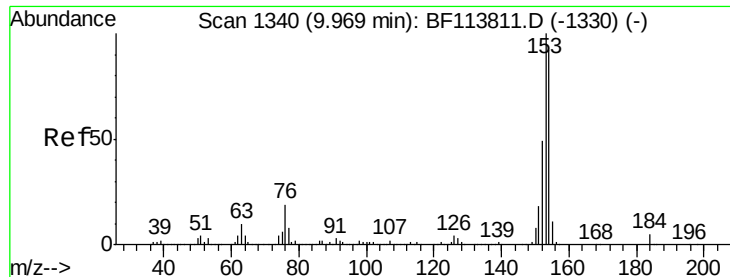
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#49
Acenaphthylene
Concen: 2.844 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.00 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	63931		
151	18.9		17.0	25.4
153	14.5		11.0	16.6





#52

Acenaphthene

Concen: 5.173 ng

RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

Instrument :

BNA_F

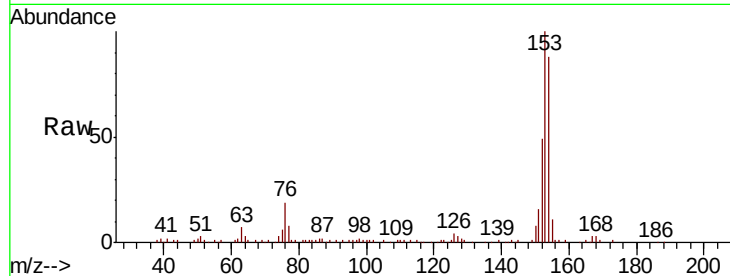
ClientSampleId :

BWM-S1-SOIL-PILEDL

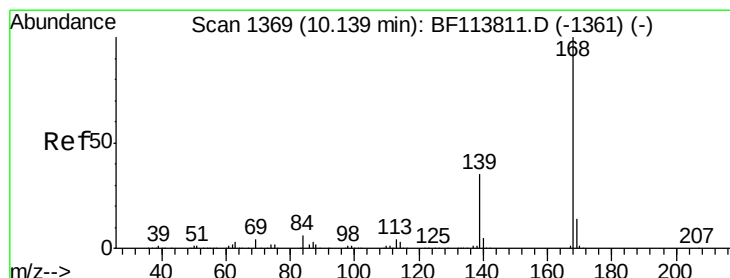
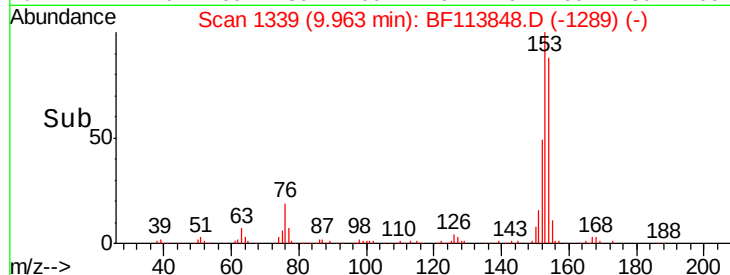
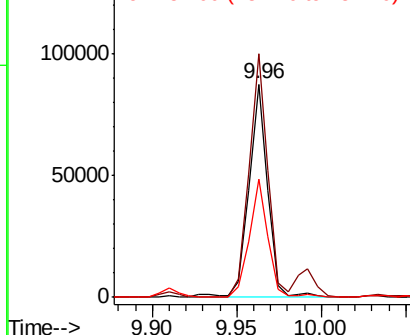
Tot Ion:	154	Resp:	68199
Ion Ratio	Lower	Upper	
154	100		
153	114.3	87.2	130.8
152	55.6	42.3	63.5

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 6.717 ng

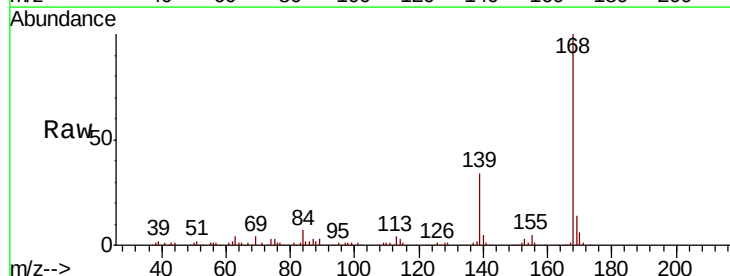
RT: 10.13 min Scan# 1368

Delta R.T. -0.01 min

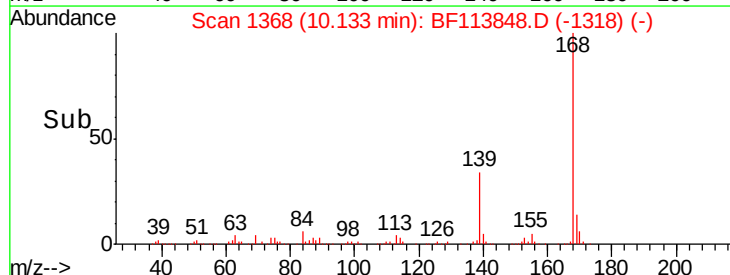
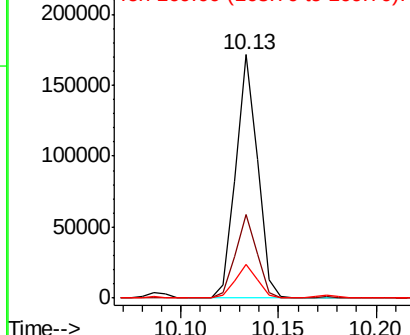
Lab File: BF113848.D

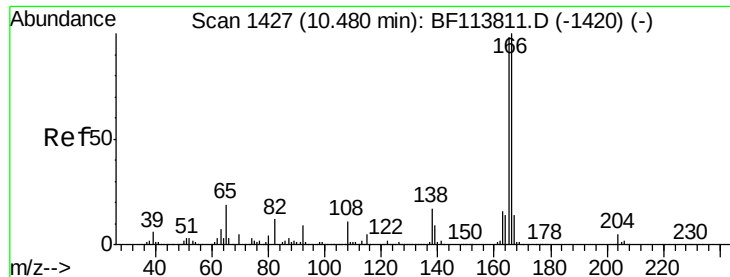
Acq: 19 Apr 2019 8:31

Tgt Ion:	168	Resp:	132663
Ion Ratio	Lower	Upper	
168	100		
139	34.3	27.8	41.6
169	13.6	11.0	16.6



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





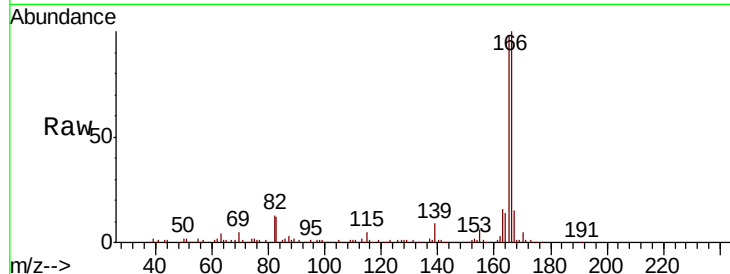
#58
 Fluorene
 Concen: 6.503 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. -0.01 min
 Lab File: BF113848.D
 Acq: 19 Apr 2019 8:31

Instrument :
 BNA_F
 ClientSampleId :
 BWM-S1-SOIL-PILEDL

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.4	117.6
167	14.5	10.9	16.3

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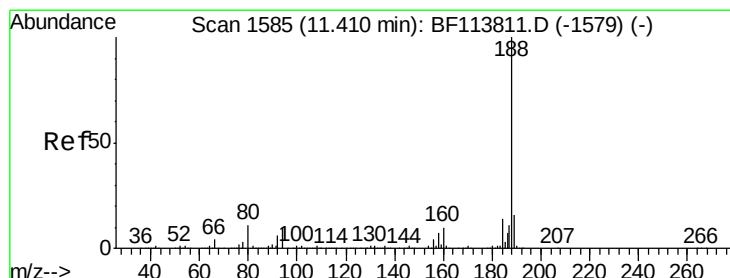
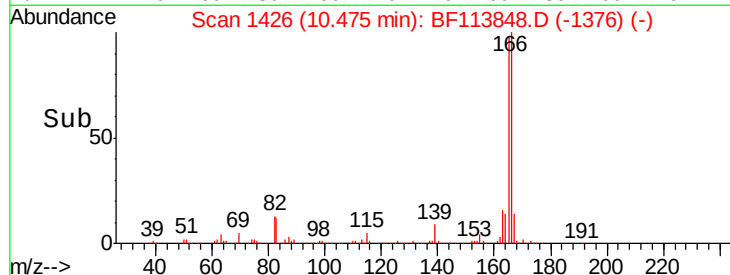
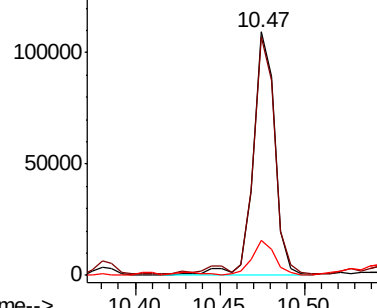


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: BF113848.D
 Acq: 19 Apr 2019 8:31

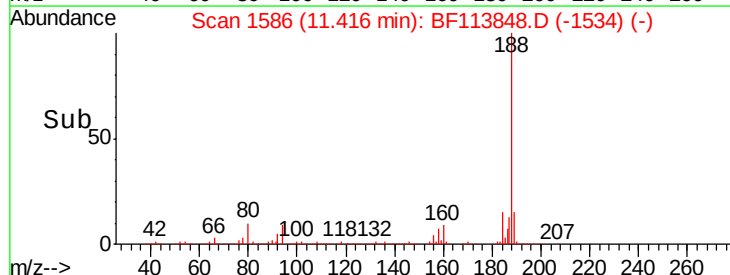
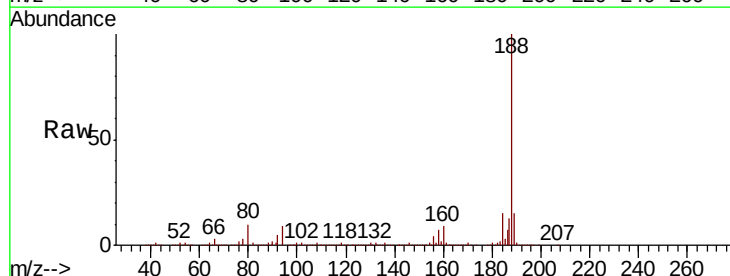
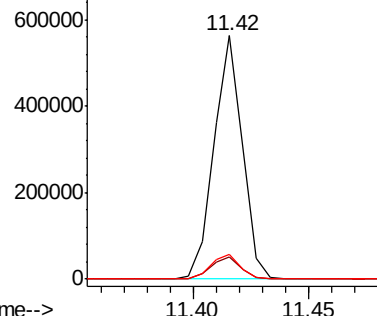
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	8.2	12.4
80	10.2	9.0	13.6

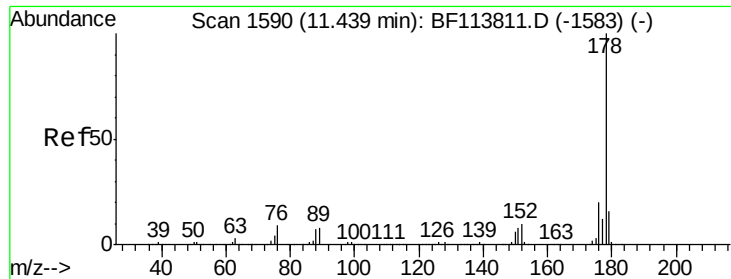
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 52.069 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.00 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

Instrument :

BNA_F

ClientSampleId :

BWM-S1-SOIL-PILEDL

Tot Ion:178 Resp: 1279974

Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.1	24.1
179	16.3	12.8	19.2

178 100

176 20.3 16.1 24.1

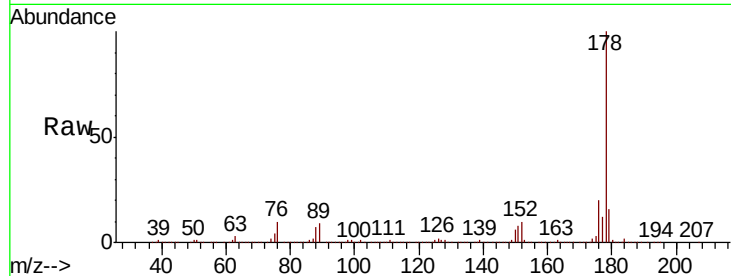
179 16.3 12.8 19.2

Manual Integrations

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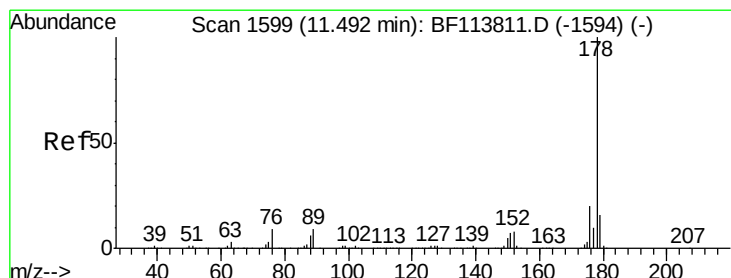
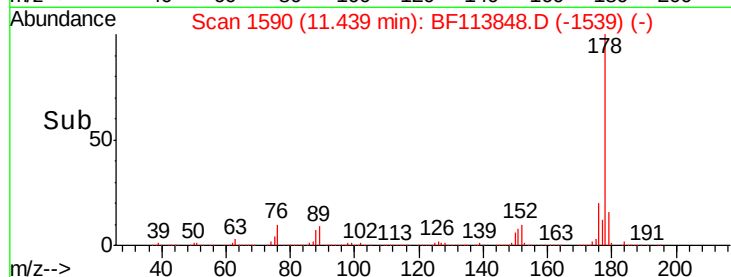
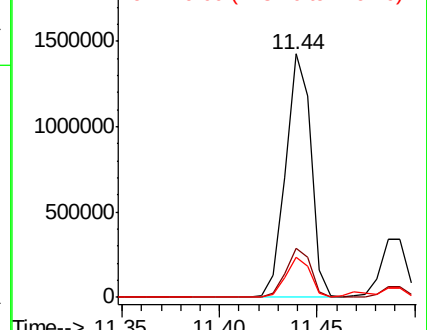
4/23/2019 8:16:58 AM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 12.678 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

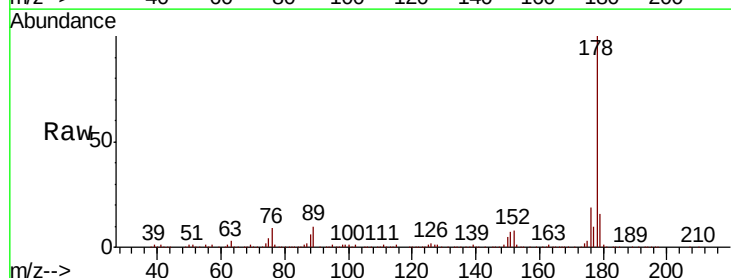
Tgt Ion:178 Resp: 314040

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.7	23.5
179	15.9	13.0	19.4

178 100

176 18.9 15.7 23.5

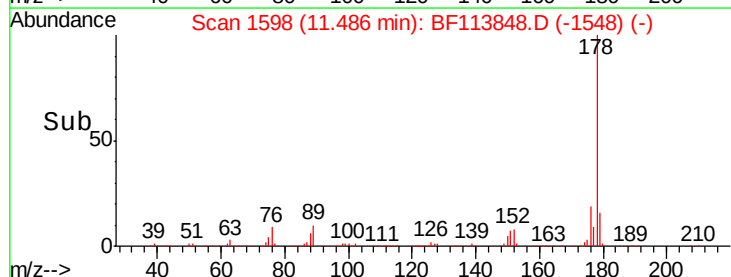
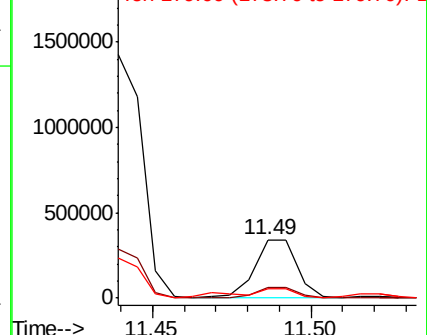
179 15.9 13.0 19.4

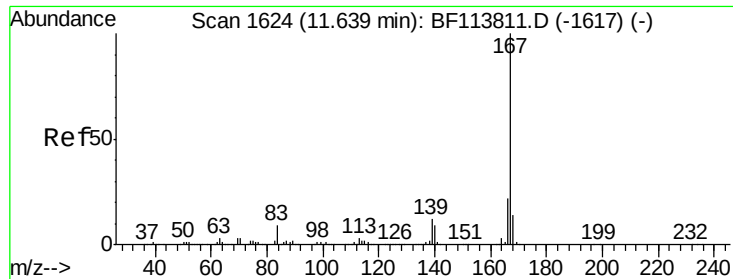


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 6.579 ng

RT: 11.64 min Scan# 1624

Delta R.T. -0.00 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

Instrument :

BNA_F

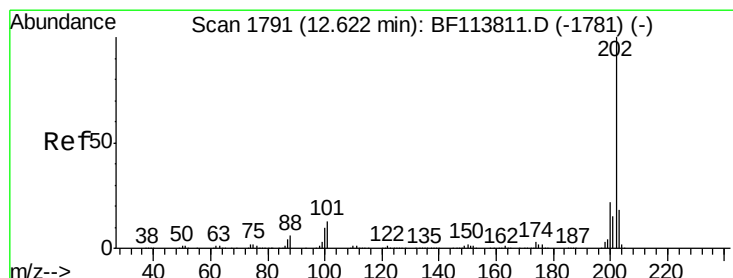
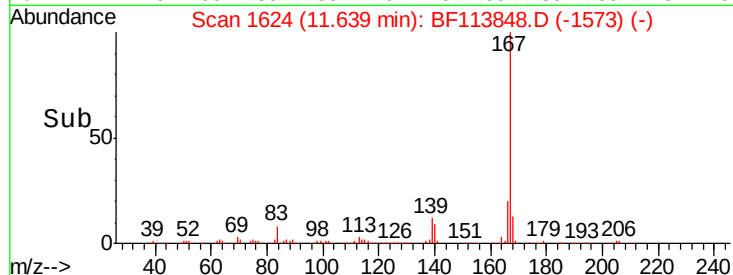
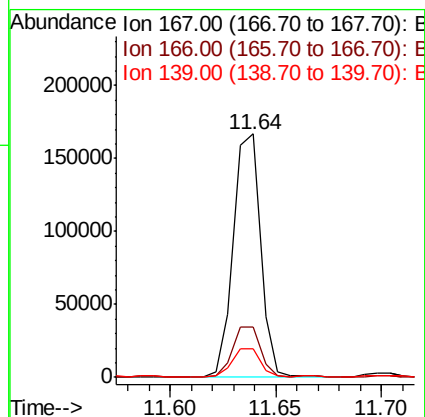
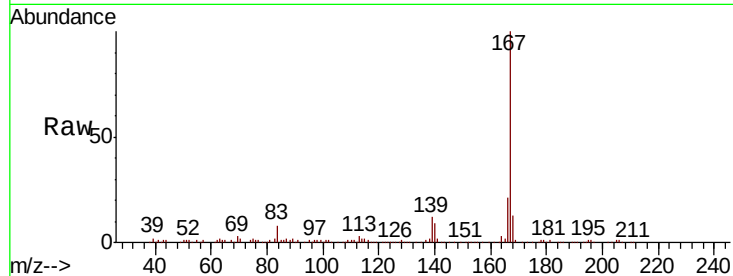
ClientSampleId :

BWM-S1-SOIL-PILEDL

Tot Ion:	167	Resp:	147974
Ion Ratio	Lower	Upper	
167	100		
166	20.6	17.7	26.5
139	11.9	10.0	15.0

Manual Integrations
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#75

Fluoranthene

Concen: 51.870 ng

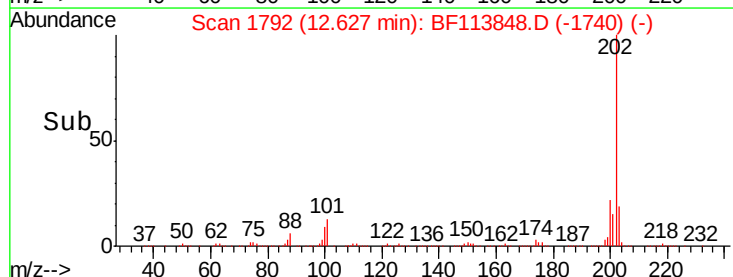
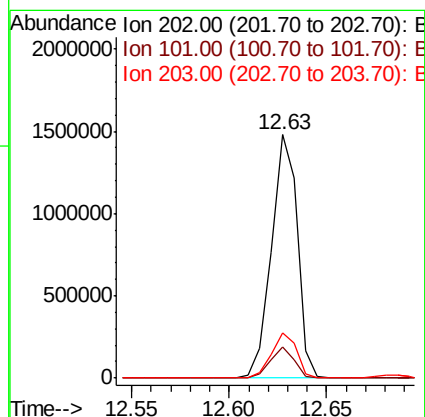
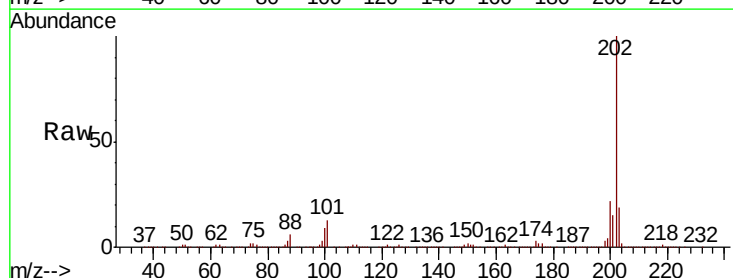
RT: 12.63 min Scan# 1792

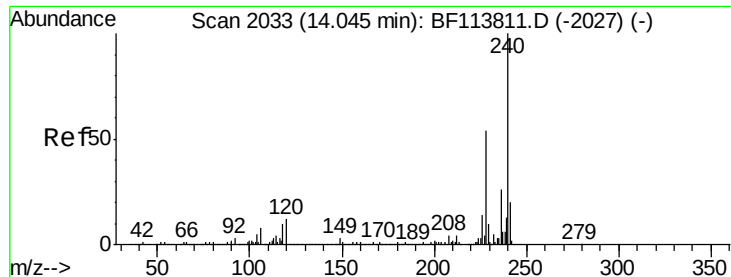
Delta R.T. 0.01 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

Tgt Ion:	202	Resp:	1351338
Ion Ratio	Lower	Upper	
202	100		
101	12.7	0.0	32.9
203	18.5	0.0	38.2





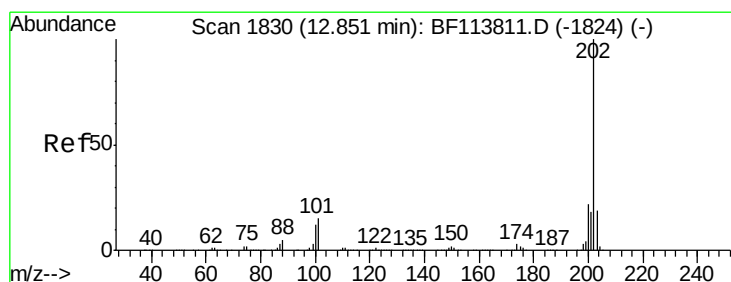
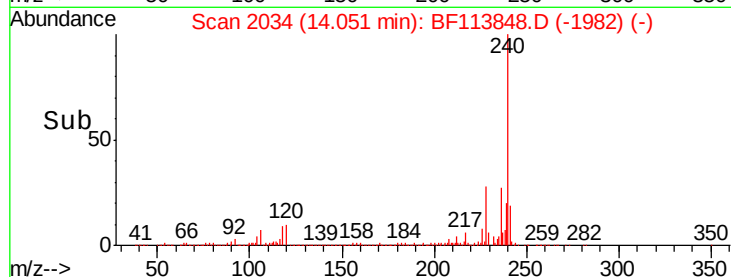
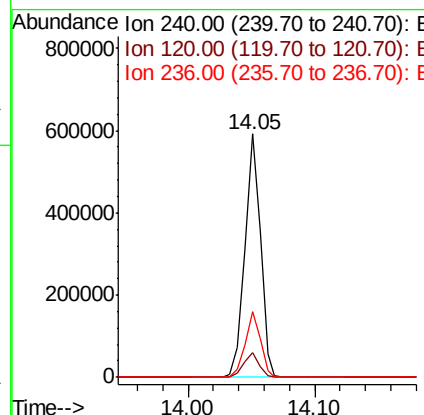
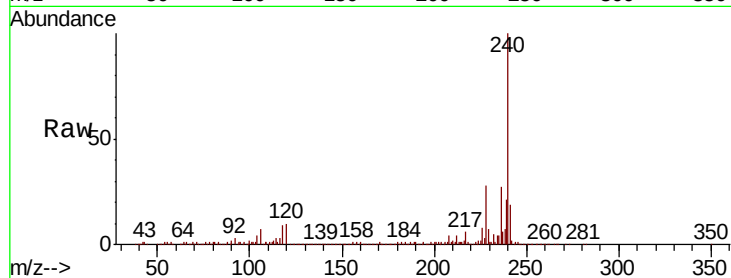
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.05 min Scan# 2034
Delta R.T. 0.01 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Instrument :
BNA_F
ClientSampleId :
BWM-S1-SOIL-PILEDL

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.3	13.9
236	26.8	21.2	31.8

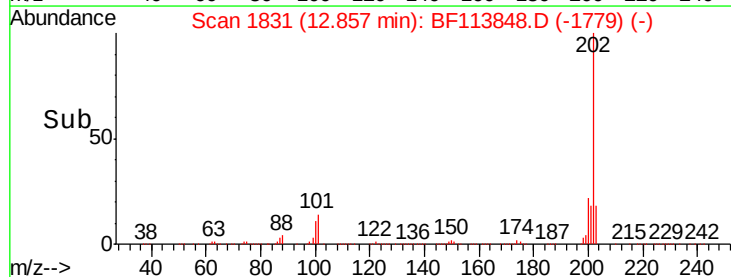
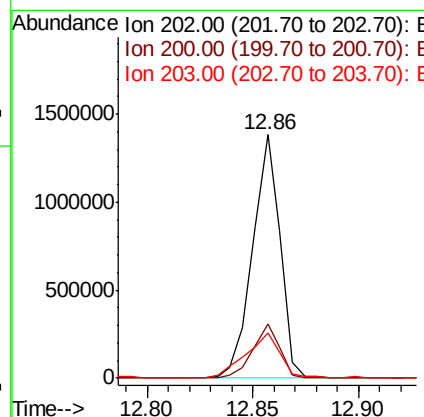
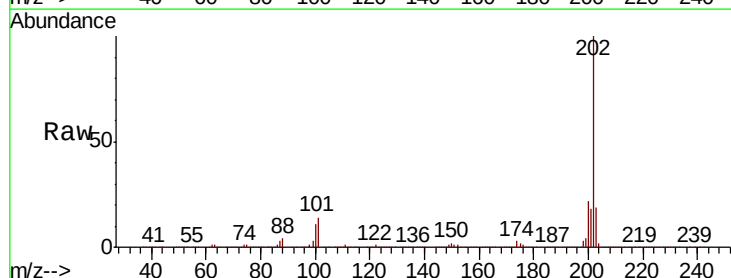
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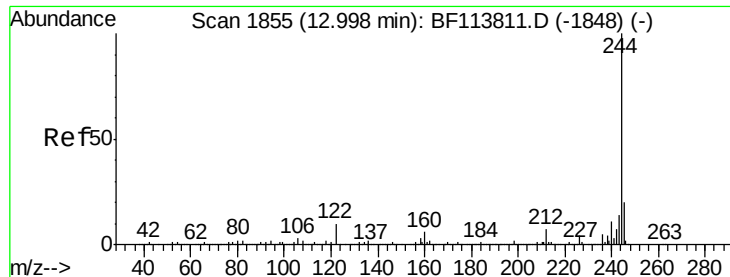
Sohil
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#78
Pyrene
Concen: 35.760 ng
RT: 12.86 min Scan# 1831
Delta R.T. 0.01 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.7	26.5
203	18.6	15.0	22.6





#79

Terphenyl-d14

Concen: 13.110 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

Instrument :

BNA_F

ClientSampleId :

BWM-S1-SOIL-PILEDL

Tot Ion:244 Resp: 310638

Ion Ratio Lower Upper

244 100

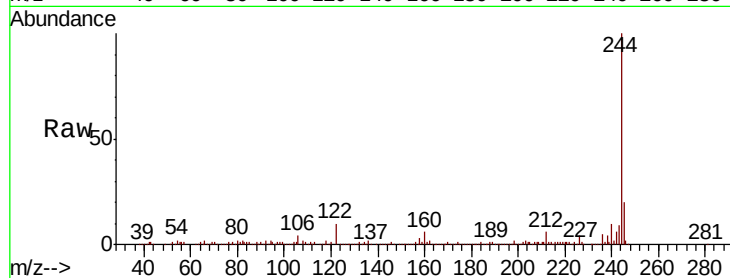
212 6.5 5.4 8.2

122 10.4 7.6 11.4

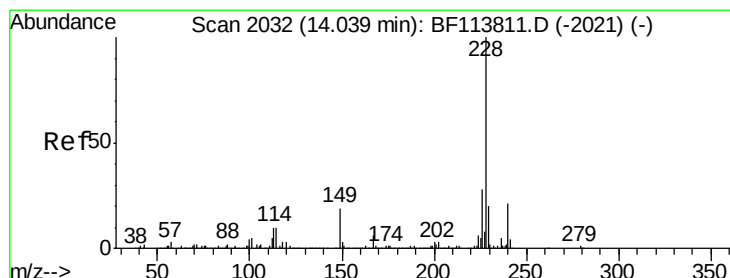
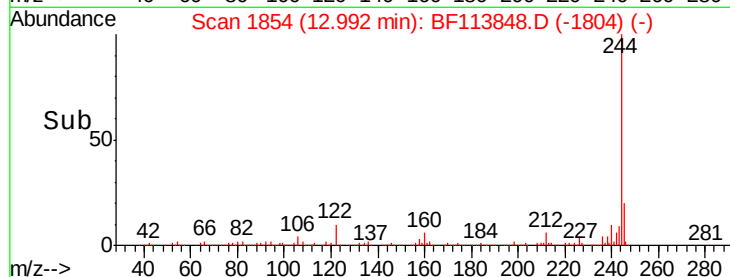
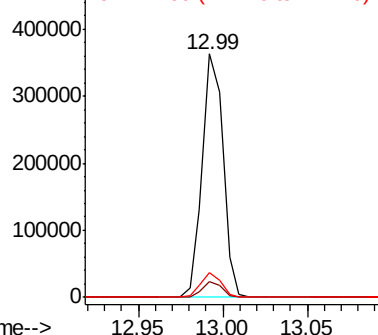
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 23.530 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

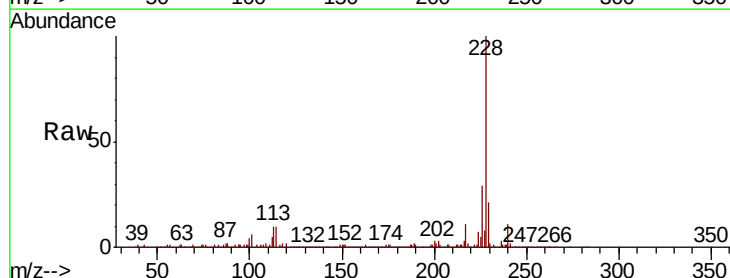
Tgt Ion:228 Resp: 683411

Ion Ratio Lower Upper

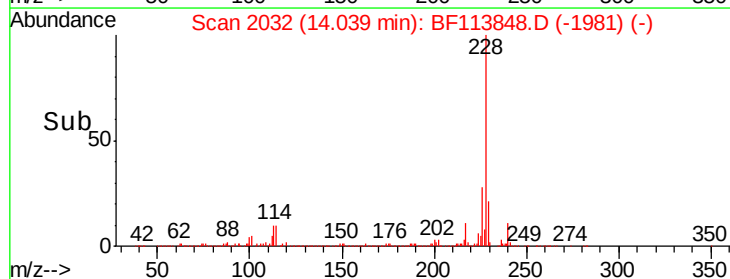
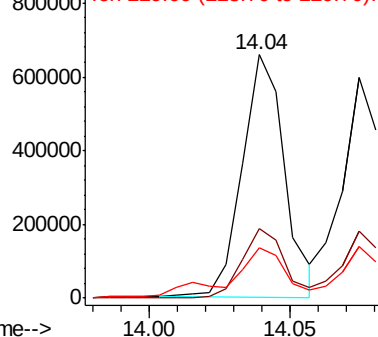
228 100

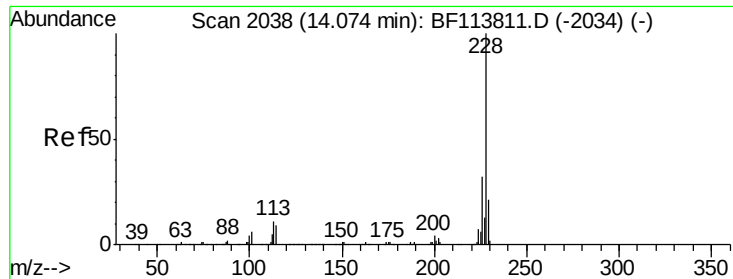
226 28.5 22.2 33.2

229 20.8 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 19.420 ng

RT: 14.07 min Scan# 2038

Delta R.T. -0.00 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

Instrument :

BNA_F

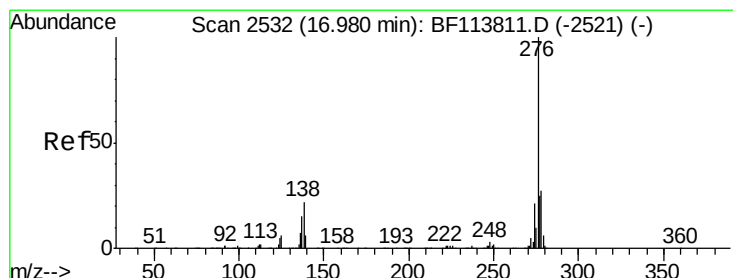
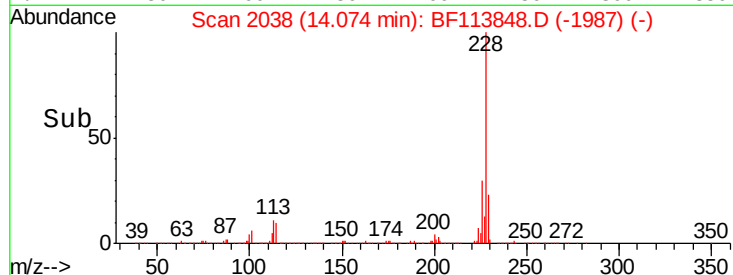
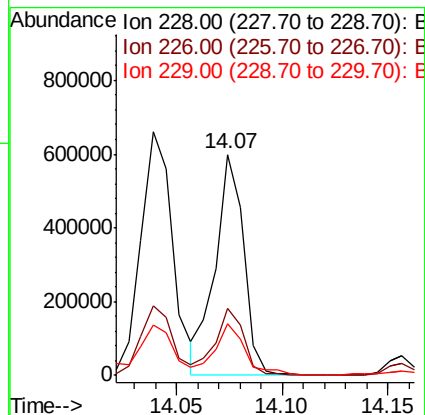
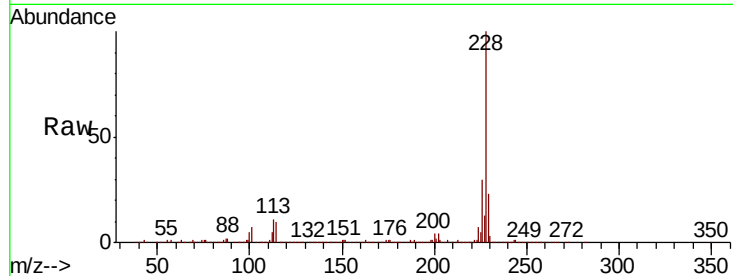
ClientSampleId :

BWM-S1-SOIL-PILEDL

Tot Ion:	228	Resp:	559853
Ion Ratio	Lower	Upper	
228	100		
226	30.0	25.2	37.8
229	23.4	16.7	25.1

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#86

Indeno(1,2,3-cd)pyrene

Concen: 7.481 ng

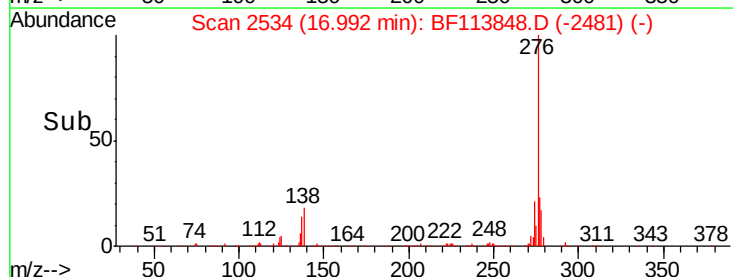
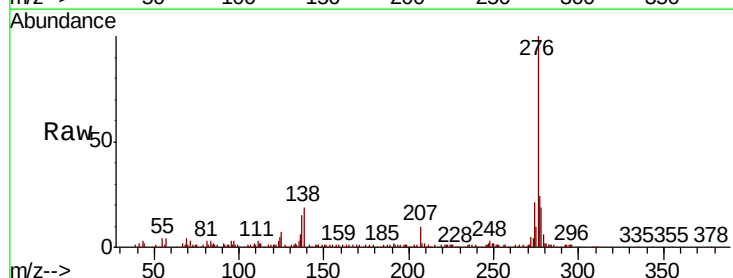
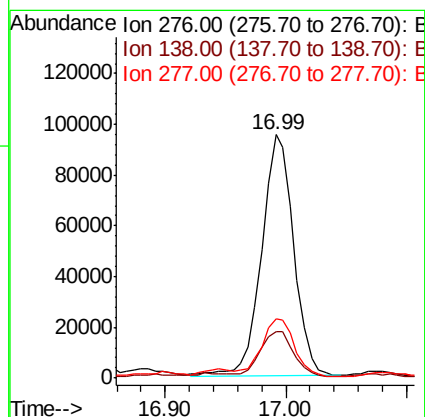
RT: 16.99 min Scan# 2534

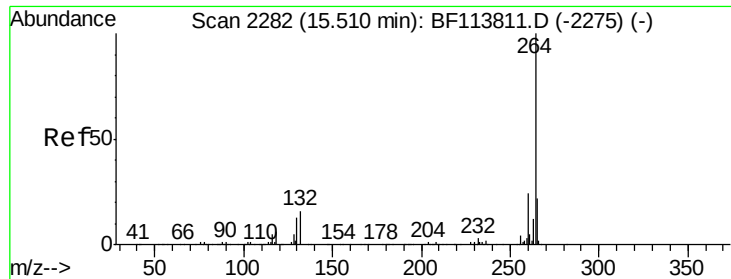
Delta R.T. 0.01 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

Tgt Ion:	276	Resp:	176066
Ion Ratio	Lower	Upper	
276	100		
138	19.8	19.6	29.4
277	24.6	20.2	30.4





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.52 min Scan# 2284

Delta R.T. 0.01 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

Instrument :

BNA_F

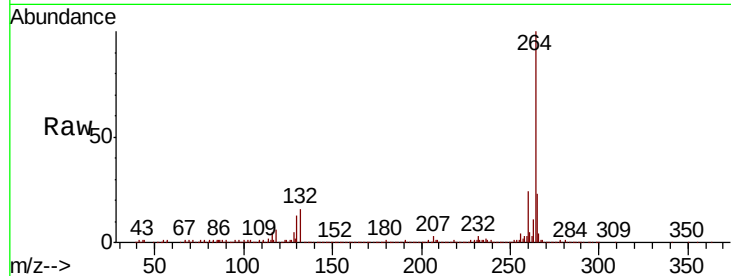
ClientSampleId :

BWM-S1-SOIL-PILEDL

Tot Ion:	264	Resp:	407612
Ion Ratio	Lower	Upper	
264	100		
260	23.9	18.9	28.3
265	22.9	17.3	25.9

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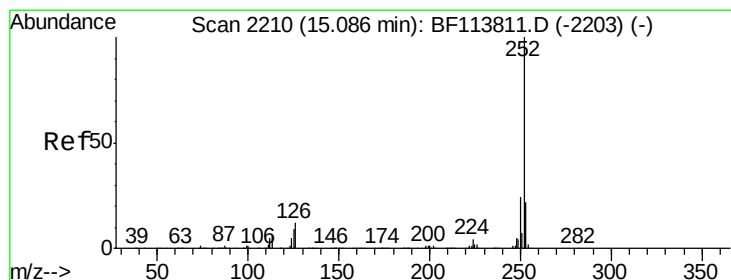
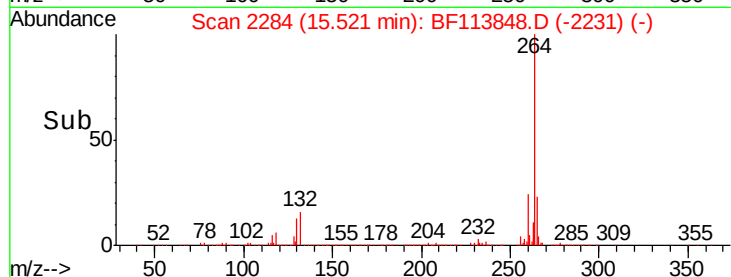
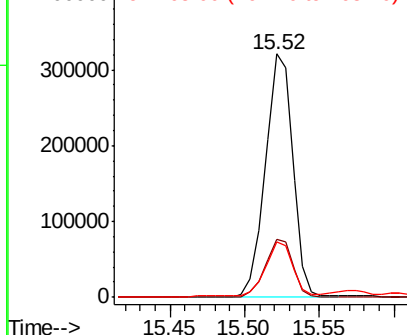


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 22.112 ng m

RT: 15.09 min Scan# 2211

Delta R.T. 0.01 min

Lab File: BF113848.D

Acq: 19 Apr 2019 8:31

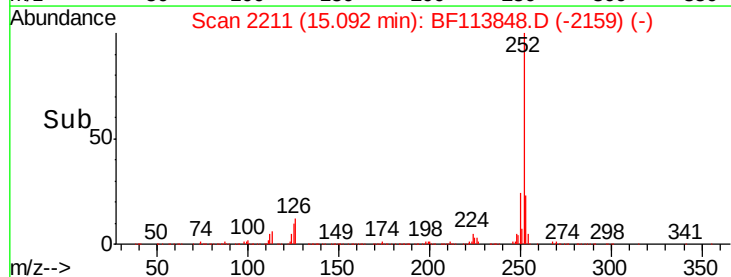
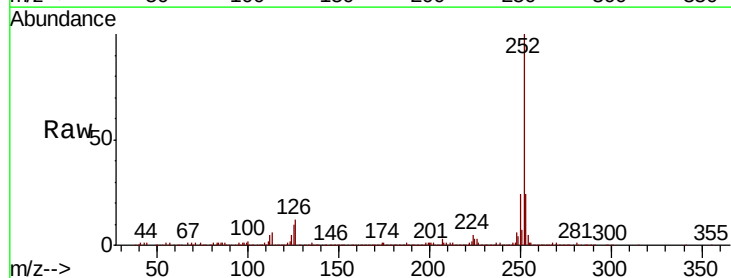
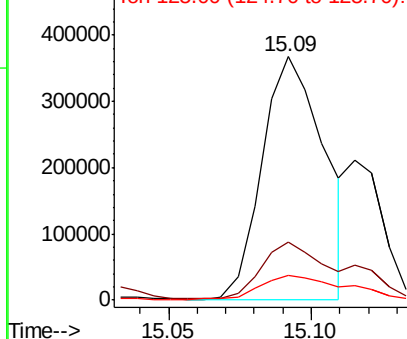
Tgt Ion:	252	Resp:	561878
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.8	26.6
125	10.1	7.0	10.6

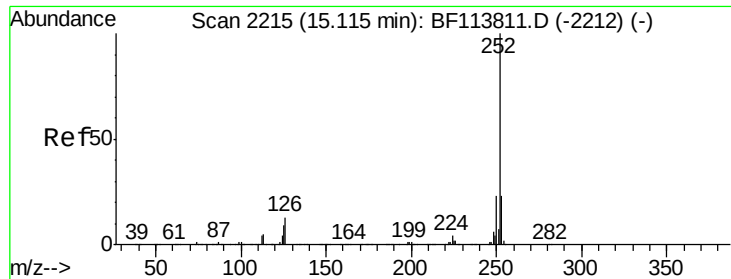
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





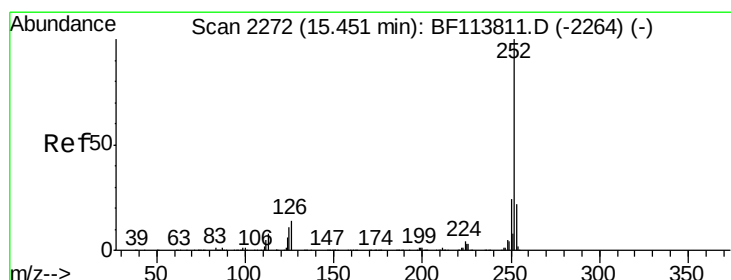
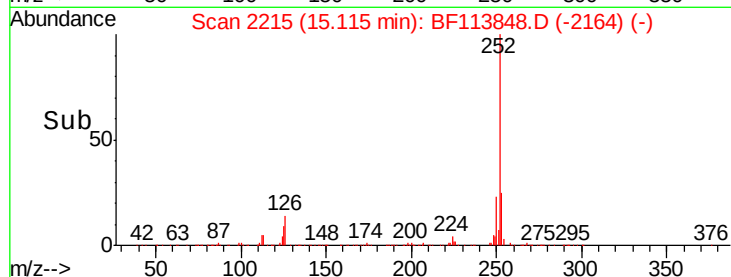
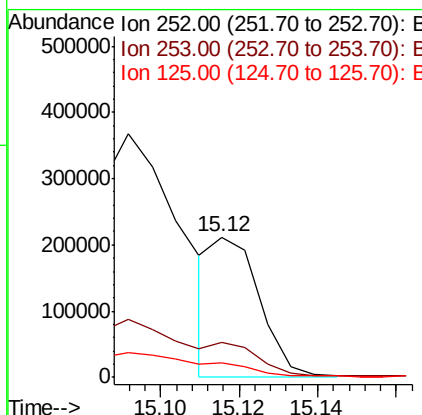
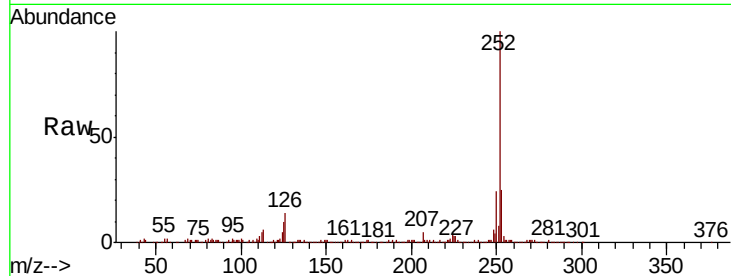
#89
Benzo(k)fluoranthene
Concen: 7.725 ng m
RT: 15.12 min Scan# 2215
Delta R.T. -0.00 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Instrument :
BNA_F
ClientSampleId :
BWM-S1-SOIL-PILEDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.2	27.2
125	10.2	7.4	11.2

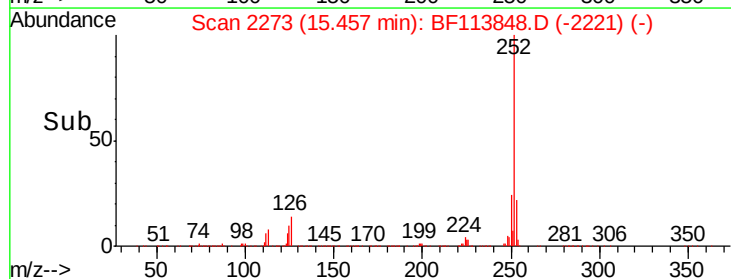
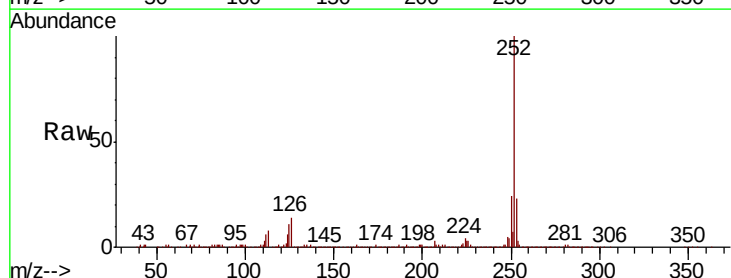
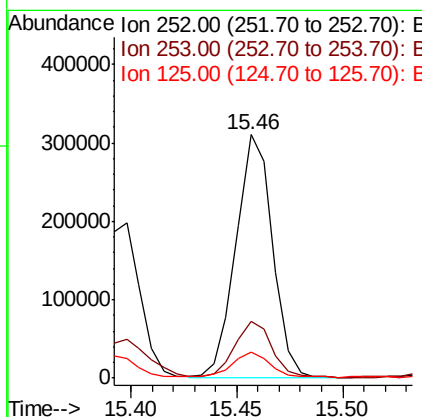
Manual Integrations
APPROVED

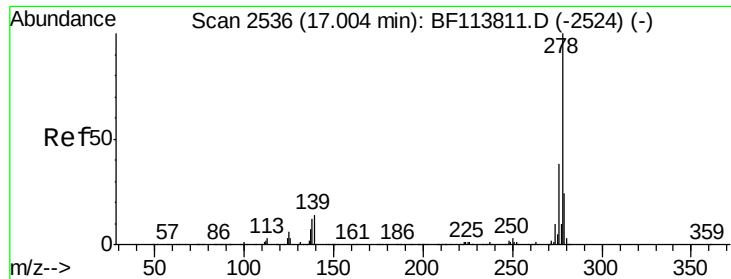
Sohil
4/23/2019 8:16:58 AM



#90
Benzo(a)pyrene
Concen: 16.474 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.01 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	10.8	8.5	12.7





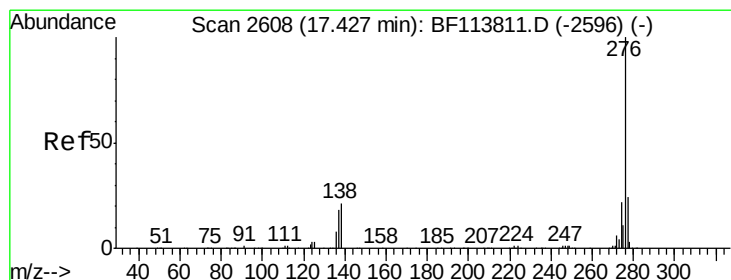
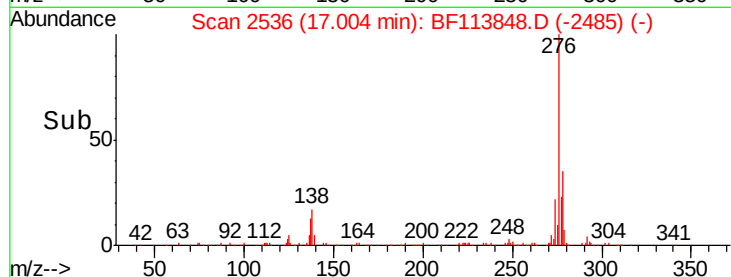
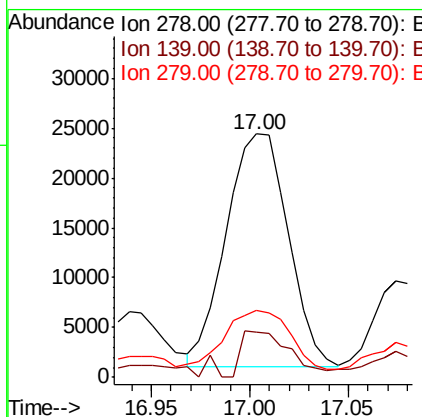
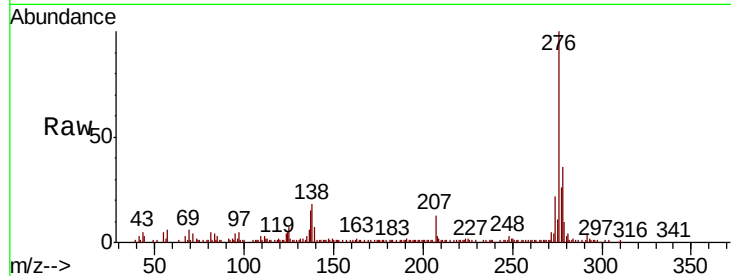
#91
Dibenzo(a,h)anthracene
Concen: 2.527 ng m
RT: 17.00 min Scan# 2536
Delta R.T. -0.00 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Instrument :
BNA_F
ClientSampleId :
BWM-S1-SOIL-PILEDL

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.4	11.6	17.4#
279	27.7	19.0	28.6

Manual Integrations
APPROVED

Sohil
4/23/2019 8:16:58 AM



#92
Benzo(g,h,i)perylene
Concen: 7.467 ng
RT: 17.44 min Scan# 2610
Delta R.T. 0.01 min
Lab File: BF113848.D
Acq: 19 Apr 2019 8:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.0	28.4
138	21.4	16.6	25.0

