

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091417\
 Data File : BF098551.D
 Acq On : 15 Sep 2017 2:08
 Operator : SJ/JU
 Sample : I5222-01 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-1

Quant Time: Sep 15 05:05:47 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 02:14:50 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	128428	20.00	ng	-0.02
21) Naphthalene-d8	7.93	136	520881	20.00	ng	-0.02
38) Acenaphthene-d10	9.68	164	221502	20.00	ng	-0.02
63) Phenanthrene-d10	11.16	188	346261	20.00	ng	-0.02
75) Chrysene-d12	13.79	240	281648	20.00	ng	-0.02
86) Perylene-d12	15.19	264	287438	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	528123	60.80	ng	-0.02
7) Phenol-d6	6.30	99	657664	59.63	ng	-0.02
23) Nitrobenzene-d5	7.22	82	384159	41.12	ng	-0.02
41) 2,4,6-Tribromophenol	10.47	330	95888	64.86	ng	-0.02
44) 2-Fluorobiphenyl	9.00	172	647540	49.55	ng	-0.03
78) Terphenyl-d14	12.75	244	424391	32.52	ng	-0.02

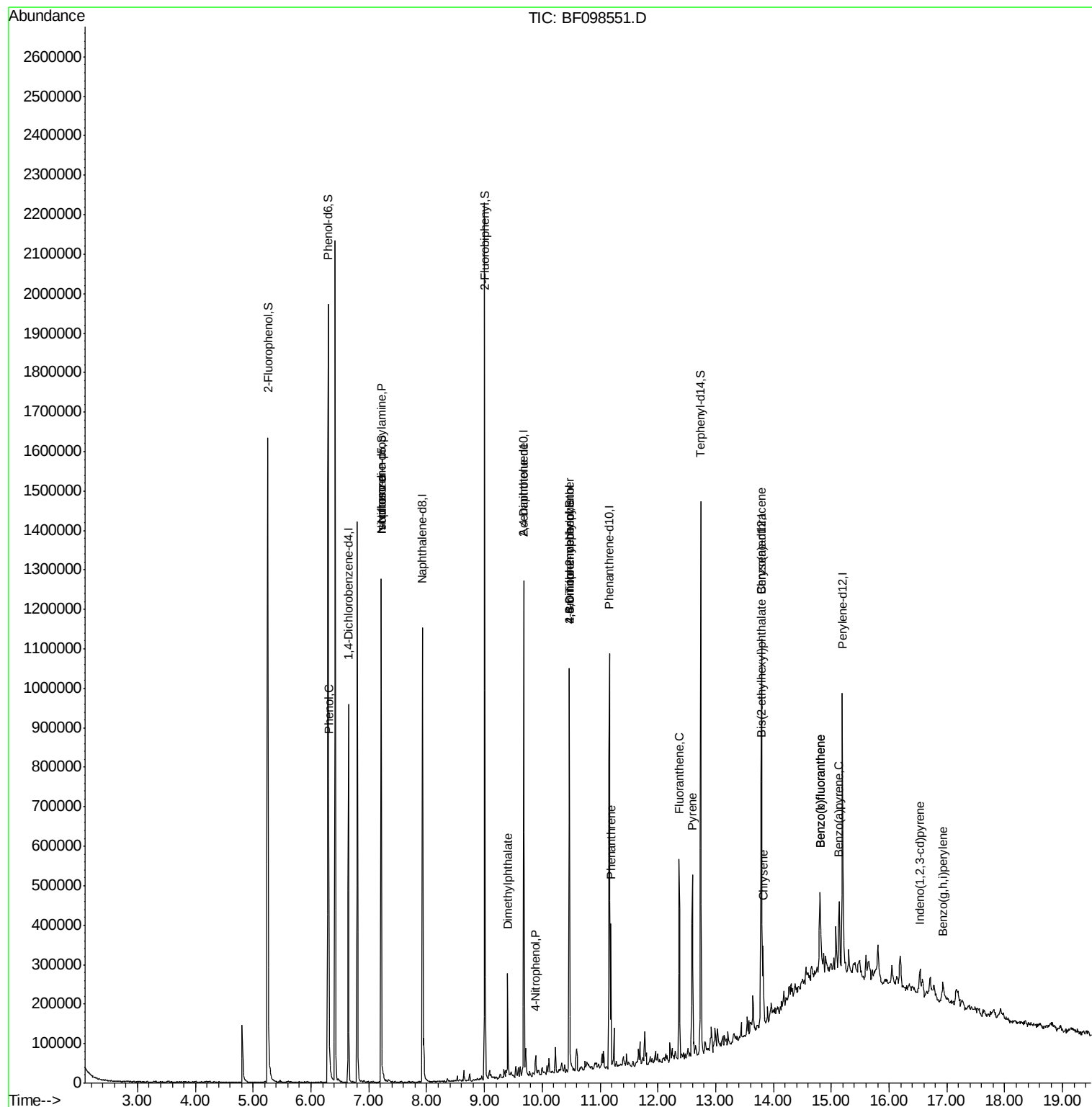
Target Compounds				Qvalue		
10) Phenol	6.31	94	26812	2.093	ng	91
19) n-Nitroso-di-n-propylamine	7.22	70	49783	7.176	ng	# 80
25) Isophorone	7.22	82	384157	20.322	ng	# 67
49) Dimethylphthalate	9.40	163	88578	5.166	ng	99
55) 4-Nitrophenol	9.89	139	5717	2.341	ng	# 38
56) 2,4-Dinitrotoluene	9.68	165	29530	6.897	ng	# 33
64) 4,6-Dinitro-2-methylphenol	10.47	198	130	5.019	ng	# 1
66) 4-Bromophenyl-phenylether	10.47	248	7462	2.271	ng	# 1
70) Phenanthrene	11.19	178	126473	6.890	ng	98
74) Fluoranthene	12.37	202	191906	10.443	ng	98
77) Pyrene	12.60	202	178533	8.035	ng	97
80) Benzo(a)anthracene	13.79	228	83243	5.041	ng	99
82) Chrysene	13.82	228	81857	4.904	ng	97
83) Bis(2-ethylhexyl)phthalate	13.78	149	40852	3.377	ng	# 98
85) Indeno(1,2,3-cd)pyrene	16.53	276	31235	2.667	ng	94
87) Benzo(b)fluoranthene	14.80	252	133329	7.377	ng	# 95
88) Benzo(k)fluoranthene	14.80	252	133329	7.902	ng	98
89) Benzo(a)pyrene	15.14	252	68160	4.233	ng	97
91) Benzo(a,h,i)perylene	16.93	276	30332	2.575	ng	94

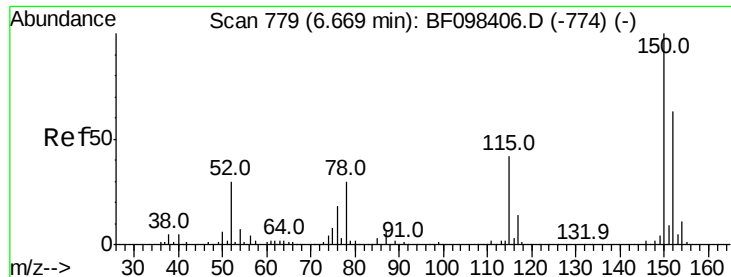
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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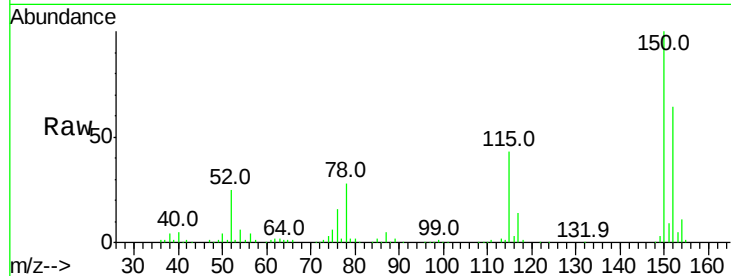


#1

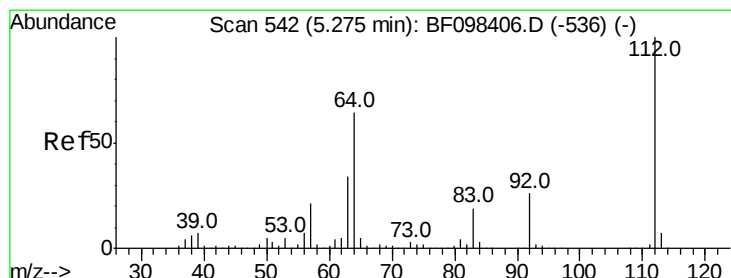
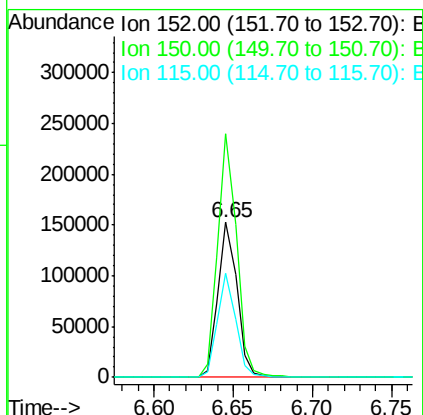
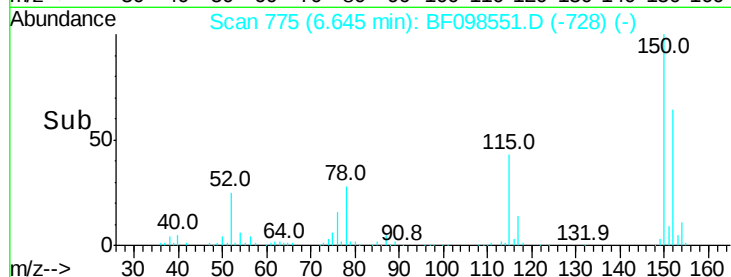
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.65 min Scan# 775
Delta R.T. -0.02 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

Instrument :
BNA_F
ClientSampleId :
SP-1

Tot Ion:152 Resp: 128428
Ion Ratio Lower Upper
152 100
150 156.8 126.2 189.2
115 67.5 52.2 78.2



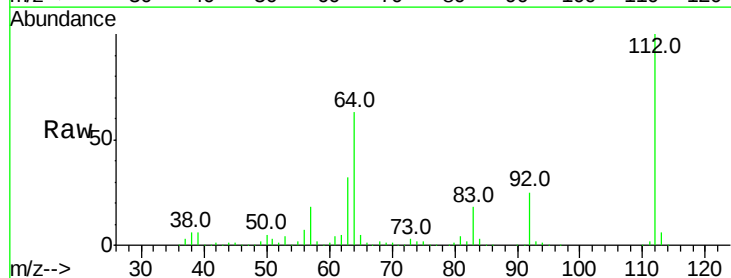
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



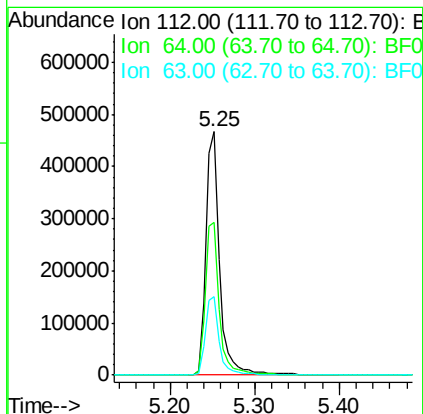
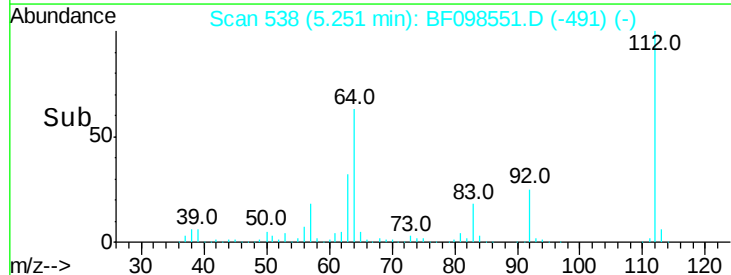
#5

2-Fluorophenol
Concen: 60.800 ng
RT: 5.25 min Scan# 538
Delta R.T. -0.02 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

Tgt Ion:112 Resp: 528123
Ion Ratio Lower Upper
112 100
64 62.7 46.0 69.0
63 32.0 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 59.633 ng

RT: 6.30 min Scan# 716

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

Instrument :

BNA_F

ClientSampled :

SP-1

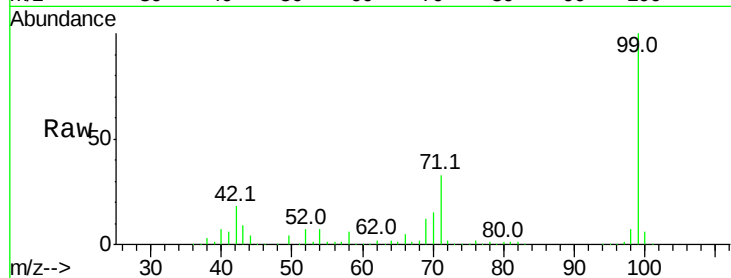
Tot Ion: 99 Resp: 657664

Ion Ratio Lower Upper

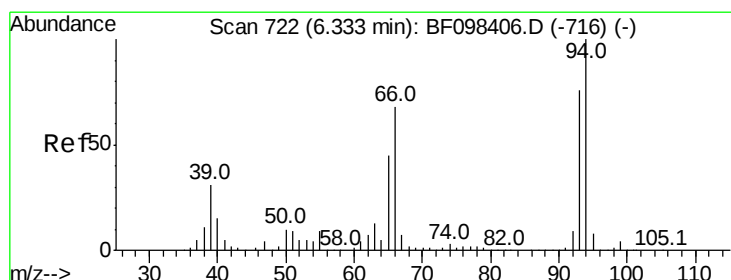
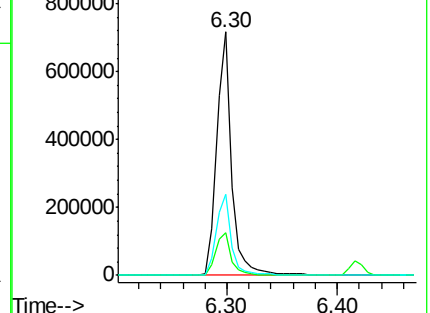
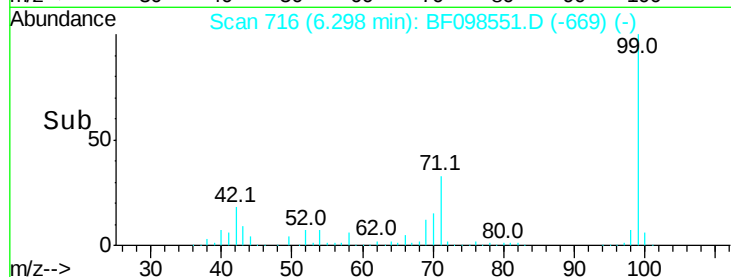
99 100

42 17.7 13.5 20.3

71 33.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.093 ng

RT: 6.31 min Scan# 718

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

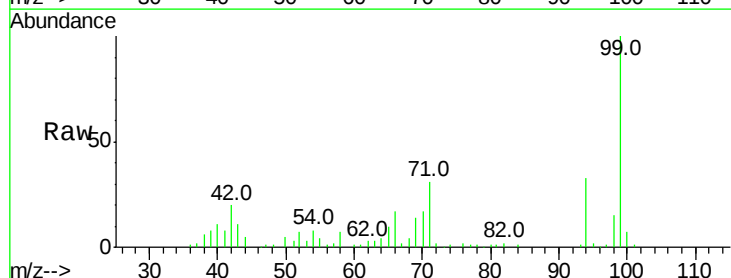
Tgt Ion: 94 Resp: 26812

Ion Ratio Lower Upper

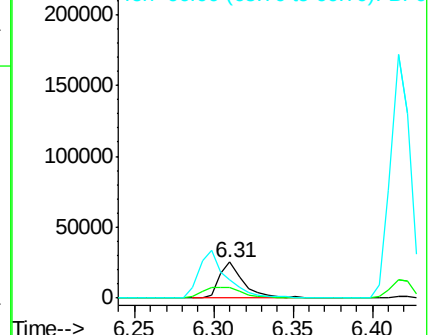
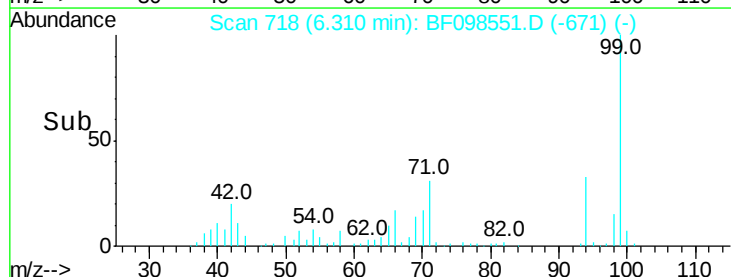
94 100

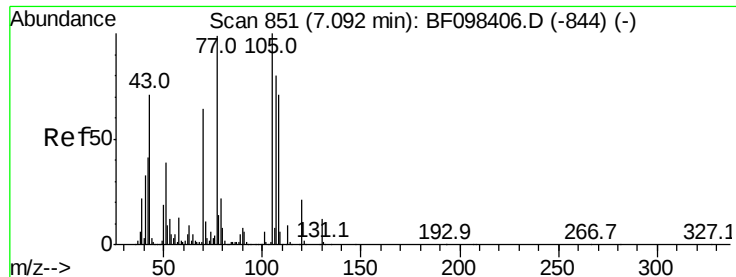
65 29.6 9.9 49.9

66 52.5 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0

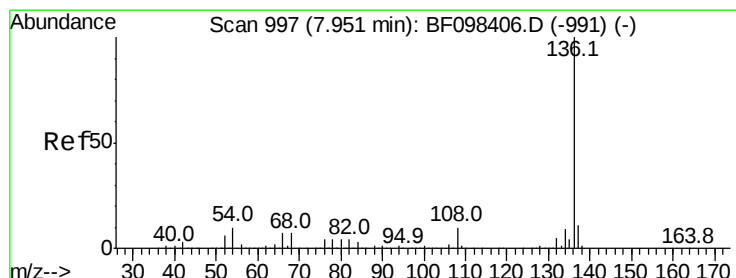
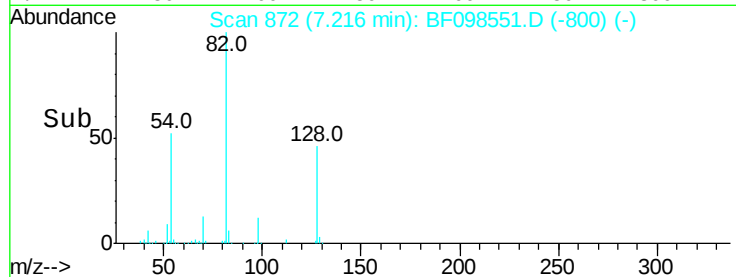
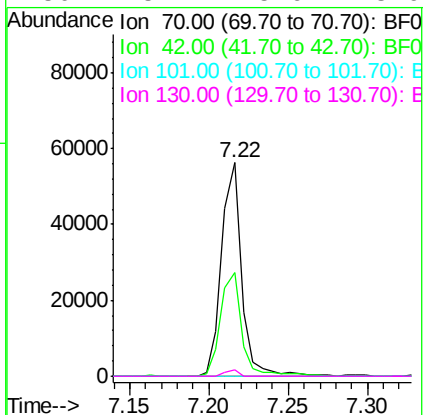
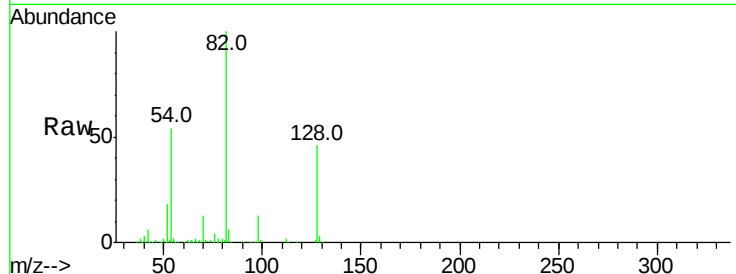




#19
n-Nitroso-di-n-propylamine
Concen: 7.176 ng
RT: 7.22 min Scan# 872
Delta R.T. 0.12 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

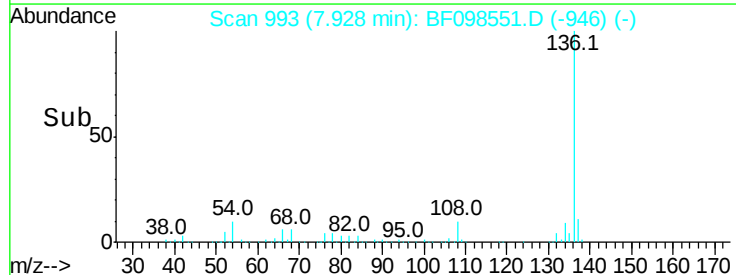
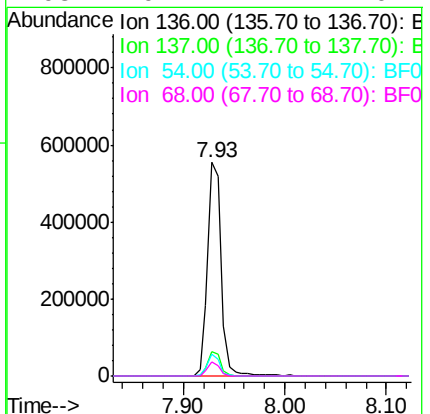
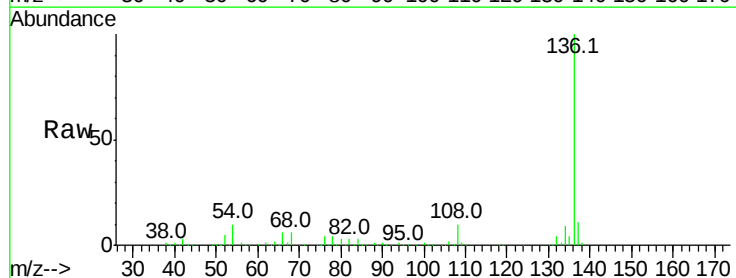
Instrument :
BNA_F
ClientSampleId :
SP-1

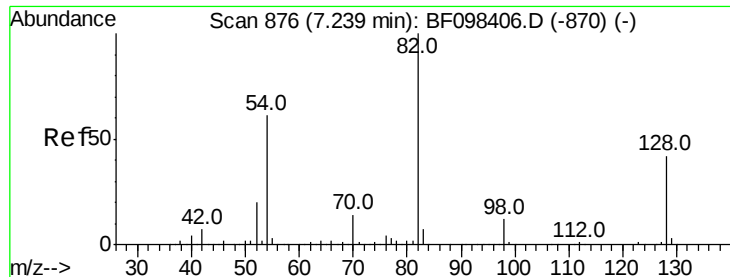
Tot Ion: 70 Resp: 49783
Ion Ratio Lower Upper
70 100
42 48.5 47.2 70.8
101 0.0 7.2 10.8#
130 3.1 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.93 min Scan# 993
Delta R.T. -0.02 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

Tgt Ion: 136 Resp: 520881
Ion Ratio Lower Upper
136 100
137 11.1 8.5 12.7
54 10.1 4.9 7.3#
68 6.4 4.1 6.1#





#23

Nitrobenzene-d5

Concen: 41.116 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

Instrument :

BNA_F

ClientSampleId :

SP-1

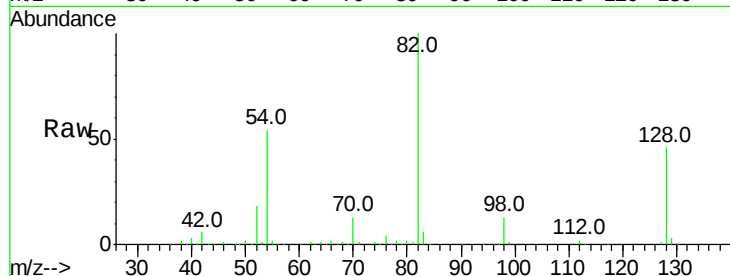
Tot Ion: 82 Resp: 384159

Ion Ratio Lower Upper

82 100

128 46.3 34.0 51.0

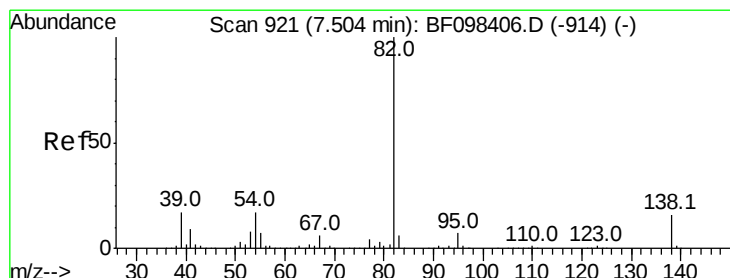
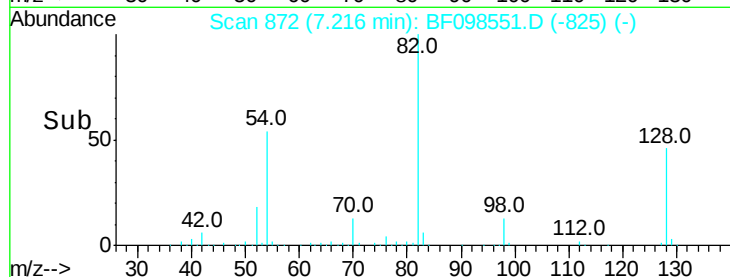
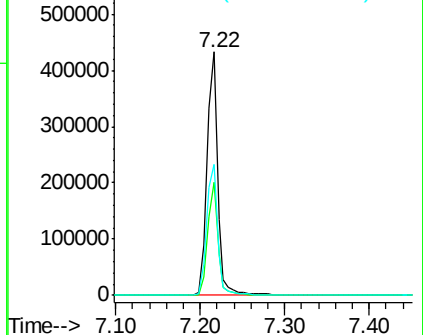
54 53.7 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 20.322 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.29 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

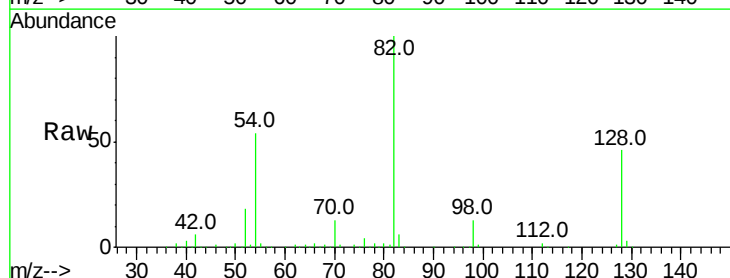
Tgt Ion: 82 Resp: 384157

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

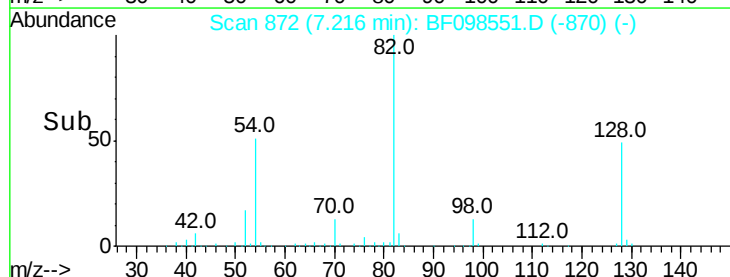
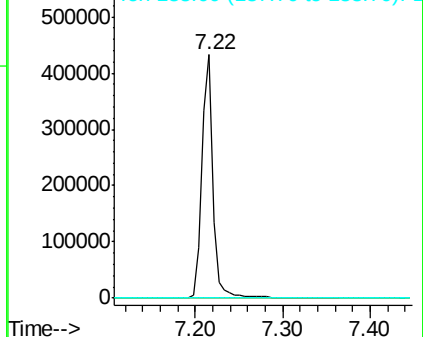
138 0.0 13.1 19.7#

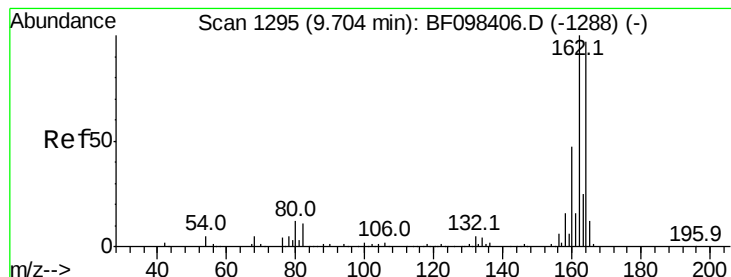


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.68 min Scan# 1291

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

Instrument :

BNA_F

ClientSampleId :

SP-1

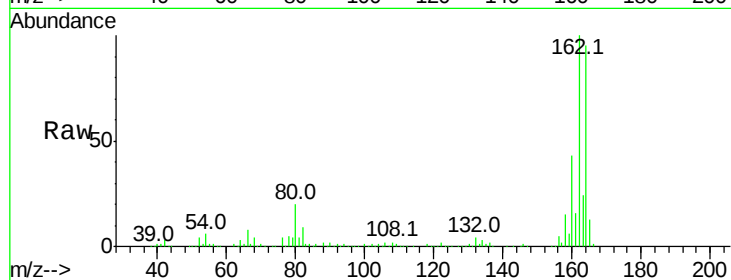
Tot Ion:164 Resp: 221502

Ion Ratio Lower Upper

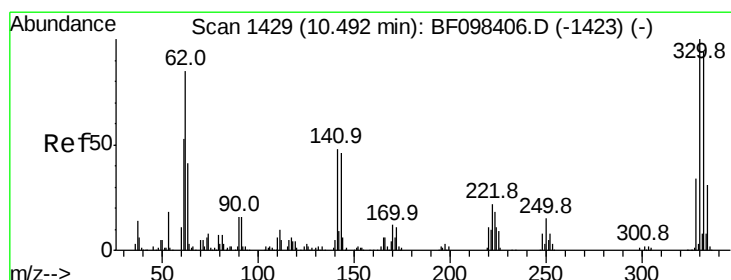
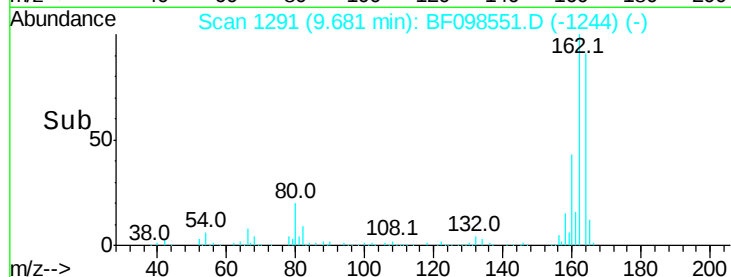
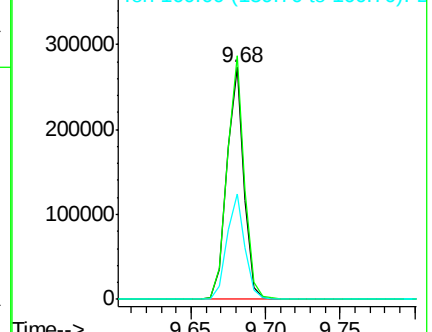
164 100

162 104.9 82.6 123.8

160 45.4 36.2 54.2



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



#41

2,4,6-Tribromophenol

Concen: 64.862 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

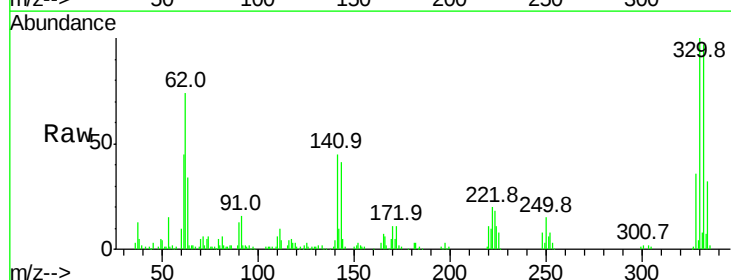
Tgt Ion:330 Resp: 95888

Ion Ratio Lower Upper

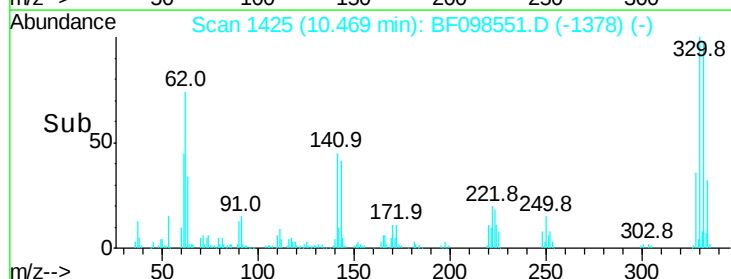
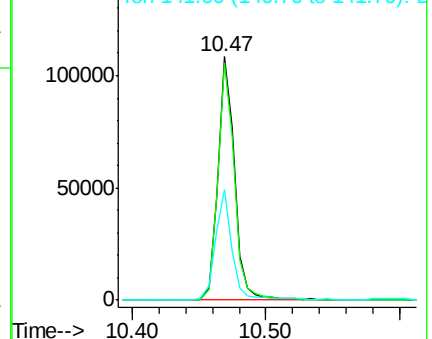
330 100

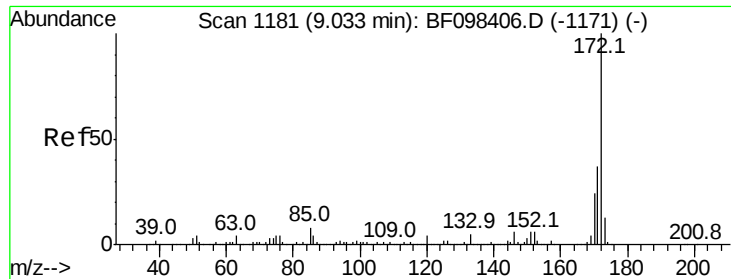
332 96.5 76.6 115.0

141 45.5 31.4 47.2



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

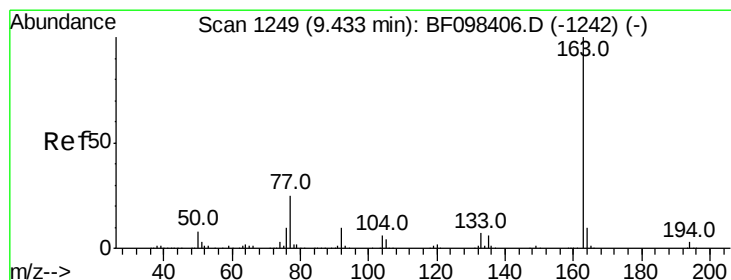
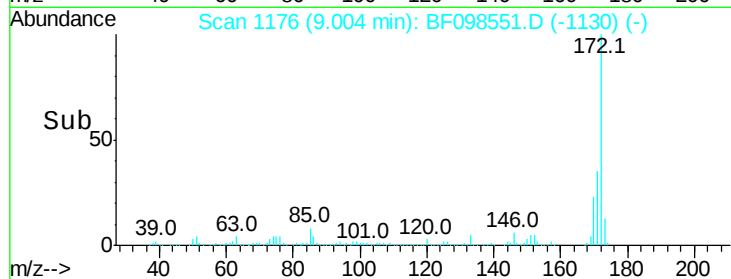
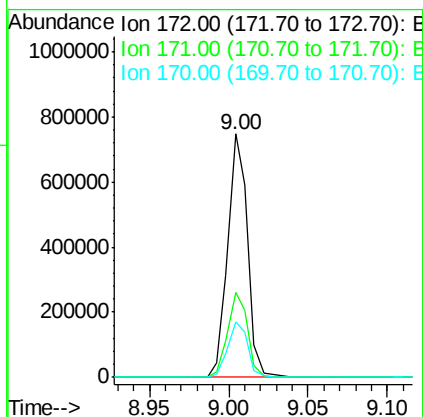
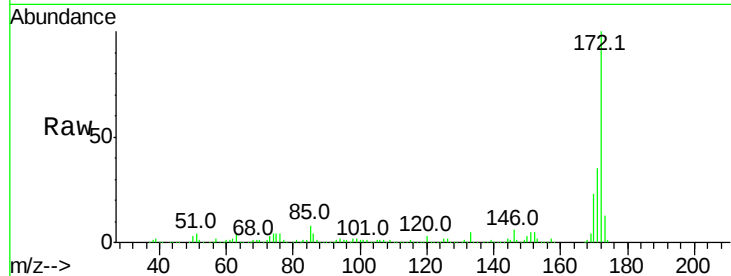




#44
2-Fluorobiphenyl
Concen: 49.549 ng
RT: 9.00 min Scan# 1176
Delta R.T. -0.03 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

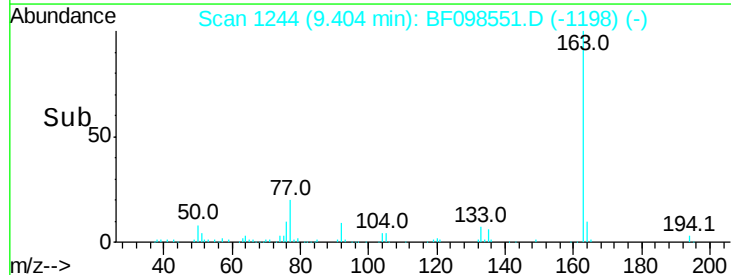
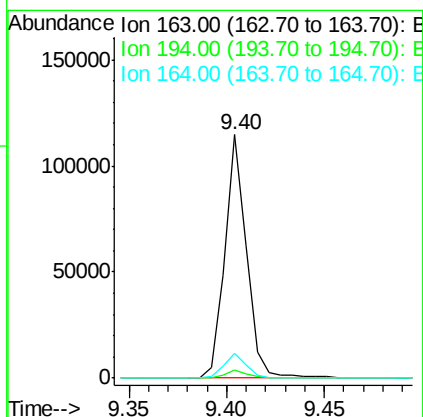
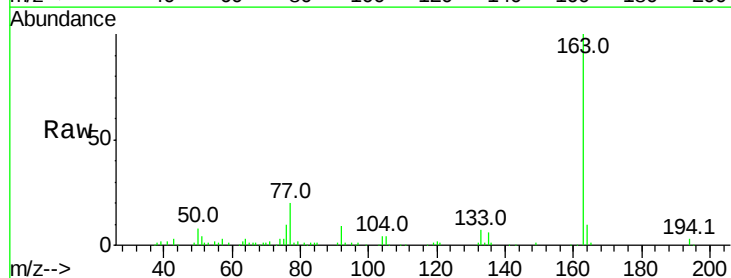
Instrument :
BNA_F
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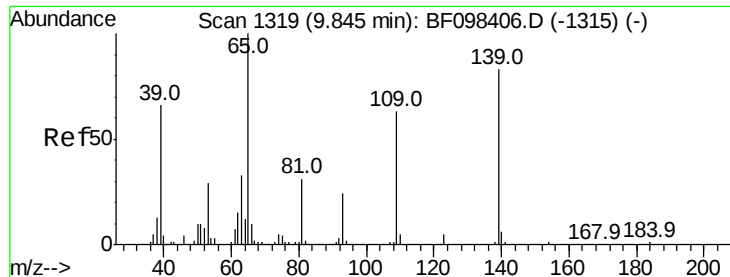
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.6	44.4
170	22.7	19.8	29.8



#49
Dimethylphthalate
Concen: 5.166 ng
RT: 9.40 min Scan# 1244
Delta R.T. -0.03 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.6	4.0
164	10.2	8.4	12.6

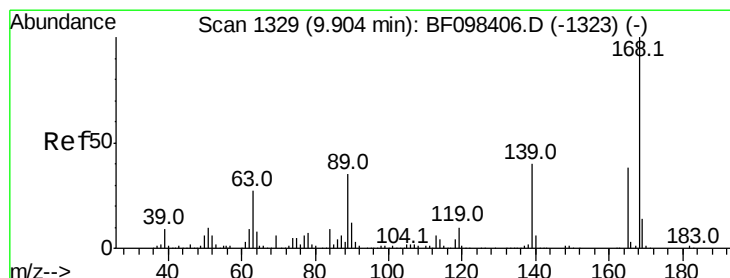
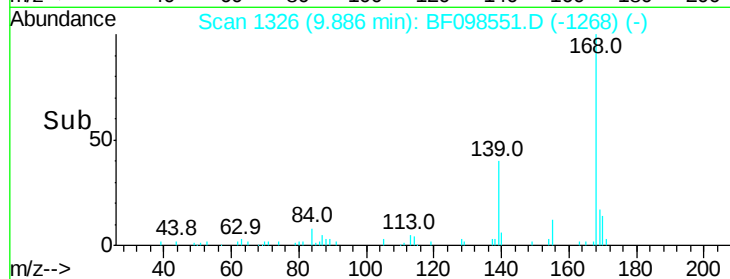
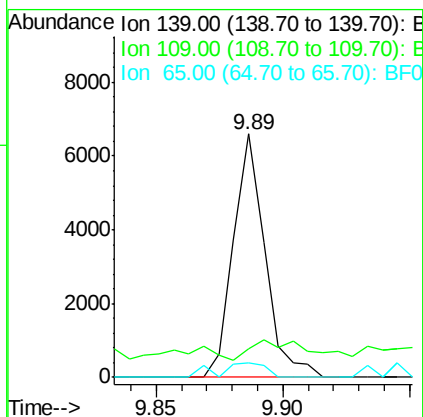
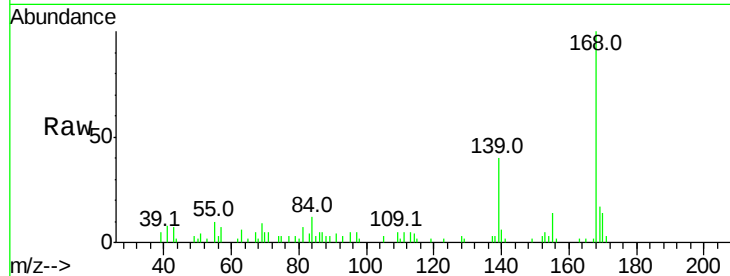




#55
4-Nitrophenol
Concen: 2.341 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.04 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

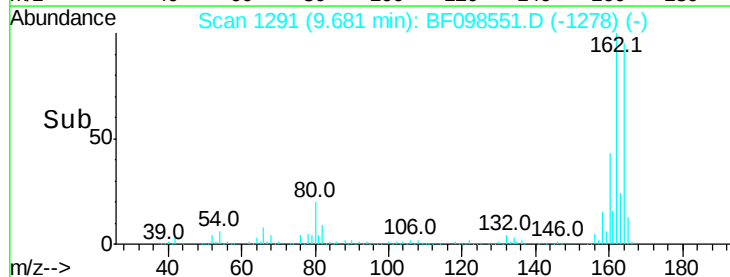
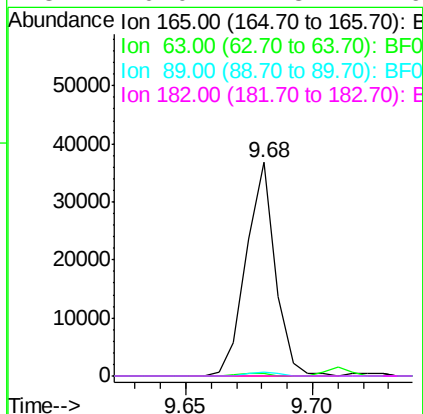
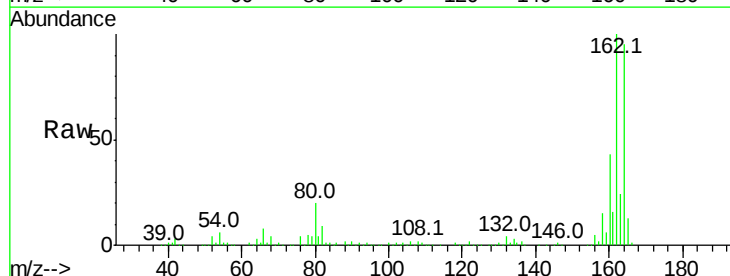
Instrument :
BNA_F
ClientSampleId :
SP-1

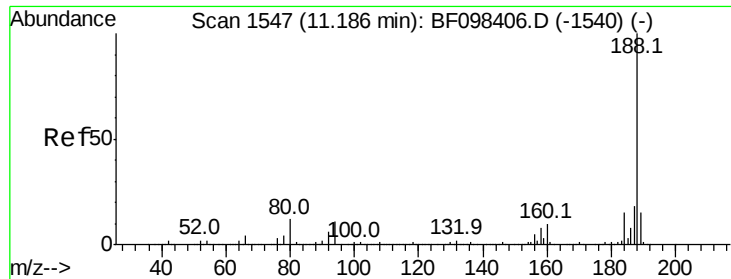
Tot Ion:139 Resp: 5717
Ion Ratio Lower Upper
139 100
109 11.7 34.1 74.1#
65 5.9 31.4 71.4#



#56
2,4-Dinitrotoluene
Concen: 6.897 ng
RT: 9.68 min Scan# 1291
Delta R.T. -0.22 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

Tgt Ion:165 Resp: 29530
Ion Ratio Lower Upper
165 100
63 1.2 25.4 38.0#
89 1.8 46.4 69.6#
182 0.0 1.8 2.6#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.16 min Scan# 1543

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

Instrument :

BNA_F

ClientSampled :

SP-1

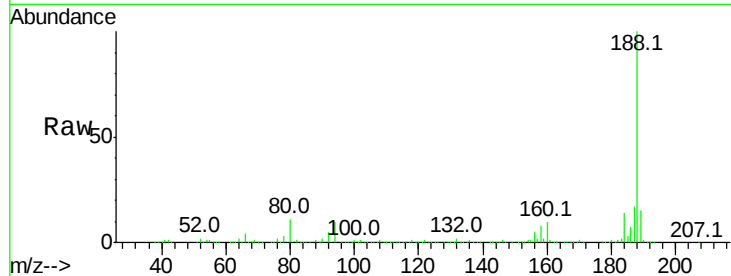
Tot Ion:188 Resp: 346261

Ion Ratio Lower Upper

188 100

94 10.3 9.4 14.2

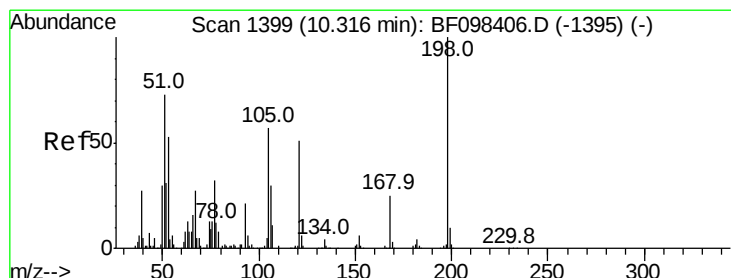
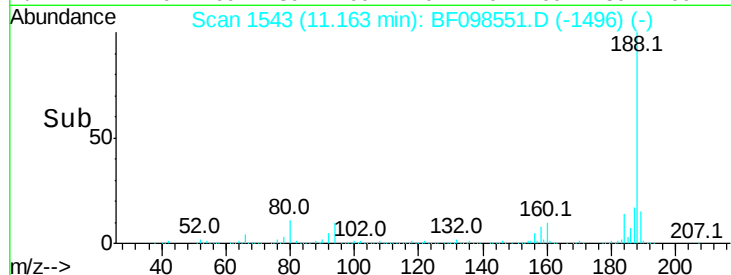
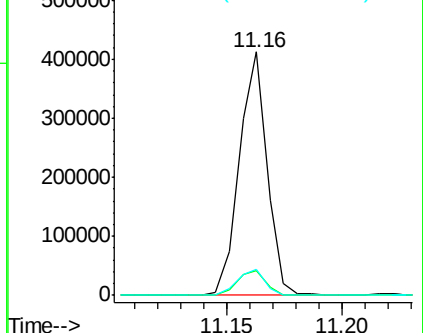
80 10.5 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#64

4,6-Dinitro-2-methylphenol

Concen: 5.019 ng

RT: 10.47 min Scan# 1425

Delta R.T. 0.15 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

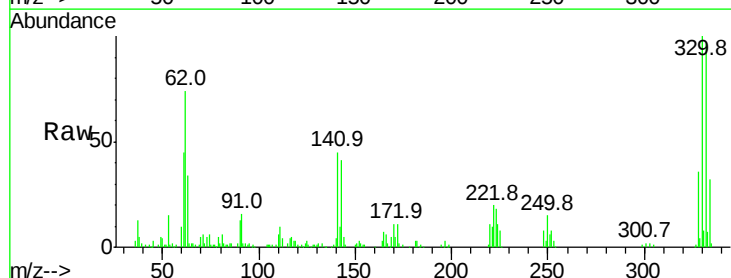
Tgt Ion:198 Resp: 130

Ion Ratio Lower Upper

198 100

51 229.3 53.2 93.2#

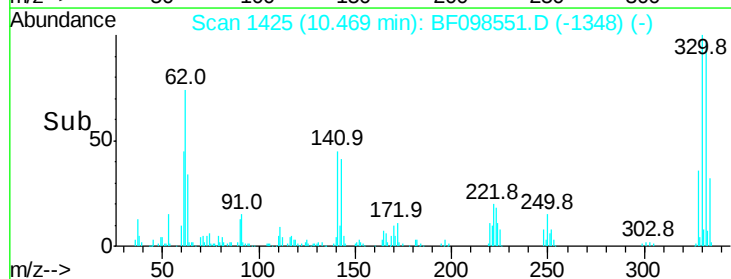
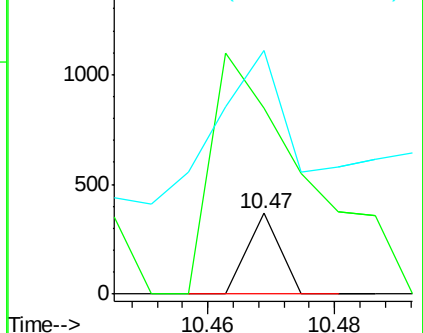
105 300.5 45.8 85.8#

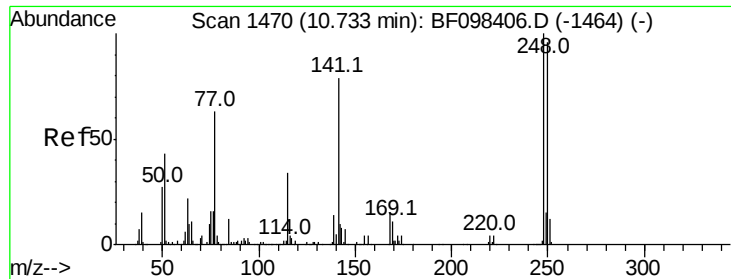


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

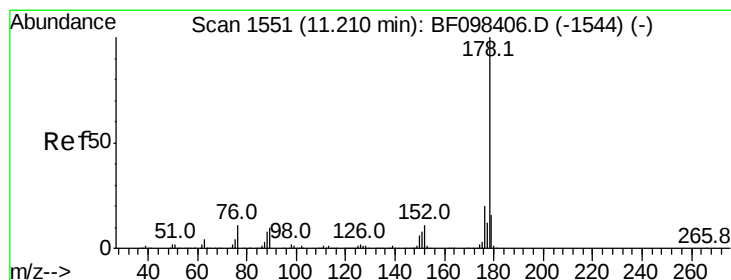
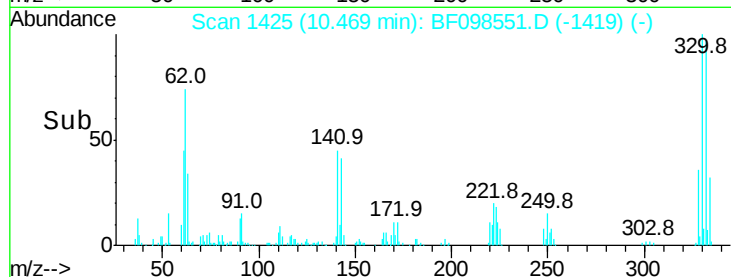
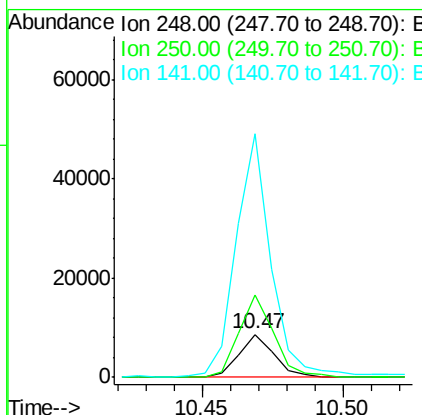
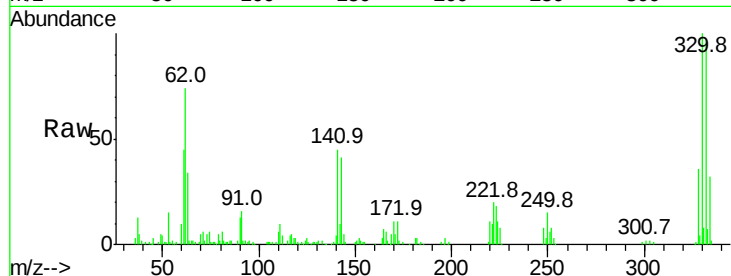




#66
4-Bromophenyl-phenylether
Concen: 2.271 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.26 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

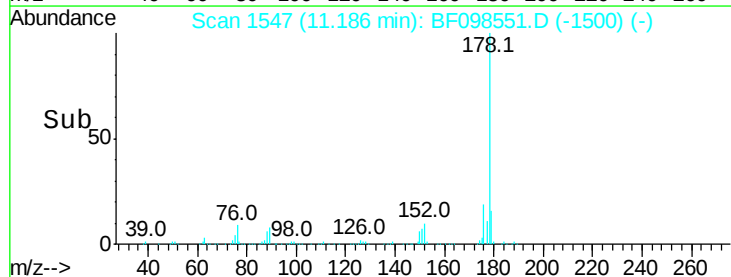
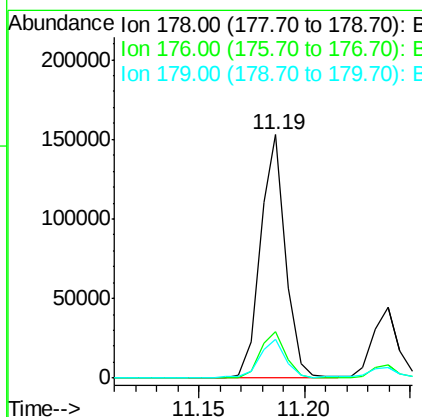
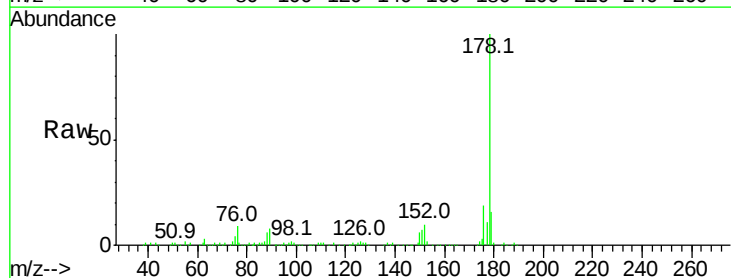
Instrument :
BNA_F
ClientSampleId :
SP-1

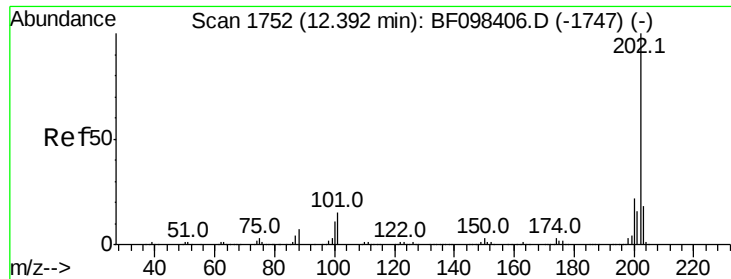
Tot Ion:248 Resp: 7462
Ion Ratio Lower Upper
248 100
250 190.5 76.8 115.2#
141 566.3 68.6 103.0#



#70
Phenanthrene
Concen: 6.890 ng
RT: 11.19 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

Tgt Ion:178 Resp: 126473
Ion Ratio Lower Upper
178 100
176 18.9 16.2 24.4
179 15.9 12.6 19.0





#74

Fluoranthene

Concen: 10.443 ng

RT: 12.37 min Scan# 1748

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

Instrument :

BNA_F

ClientSampleId :

SP-1

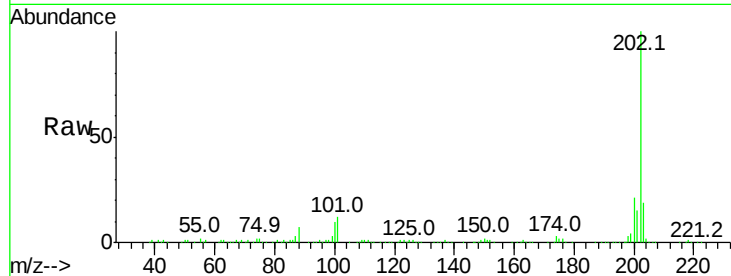
Tot Ion:202 Resp: 191906

Ion Ratio Lower Upper

202 100

101 12.2 0.0 33.2

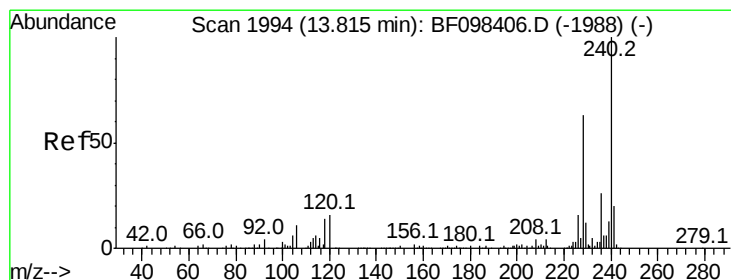
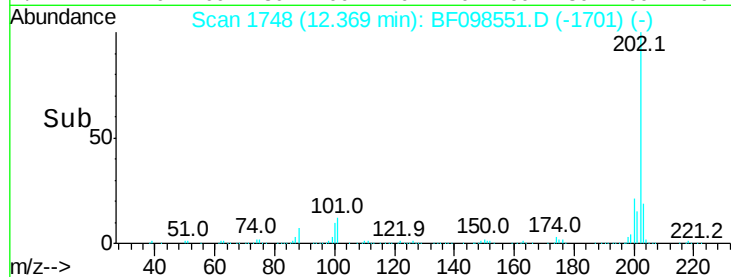
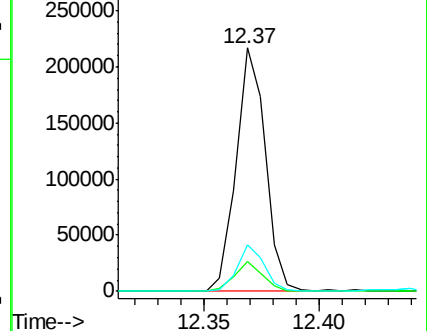
203 18.9 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.79 min Scan# 1990

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

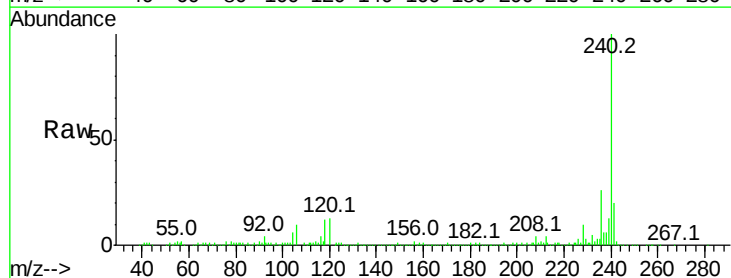
Tgt Ion:240 Resp: 281648

Ion Ratio Lower Upper

240 100

120 13.3 5.8 8.8#

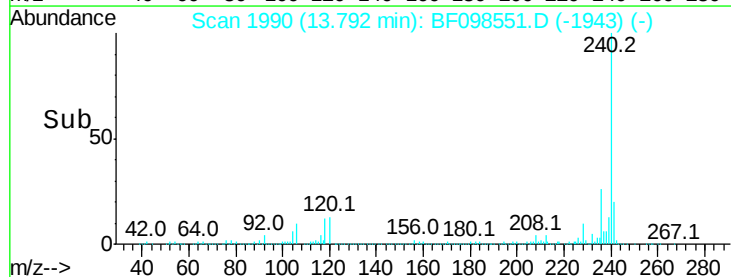
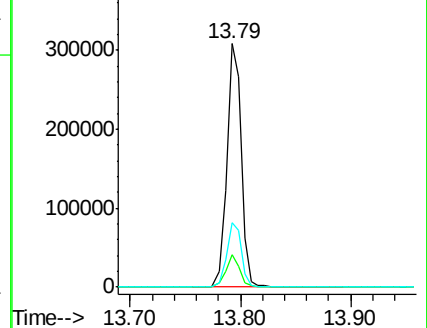
236 26.5 20.5 30.7

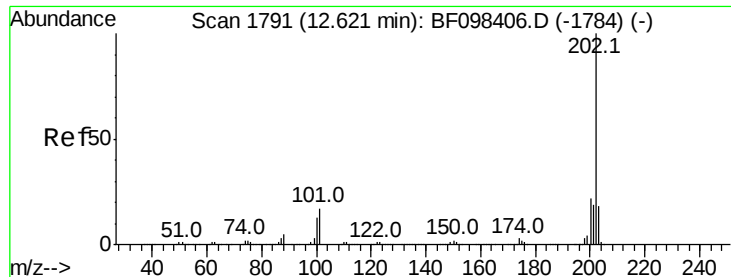


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 8.035 ng

RT: 12.60 min Scan# 1787

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

Instrument :

BNA_F

ClientSampled :

SP-1

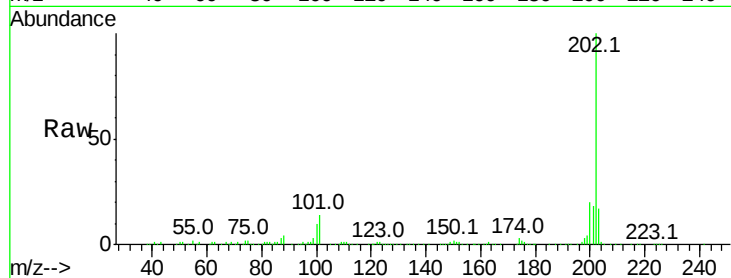
Tot Ion:202 Resp: 178533

Ion Ratio Lower Upper

202 100

200 20.2 17.6 26.4

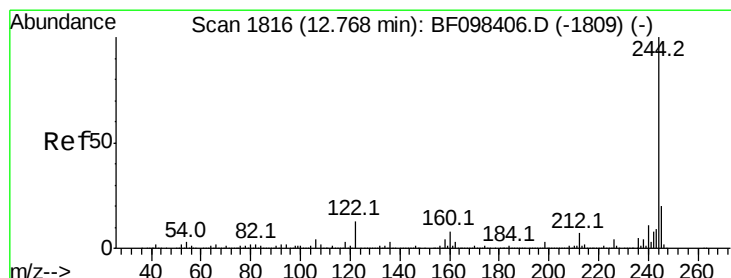
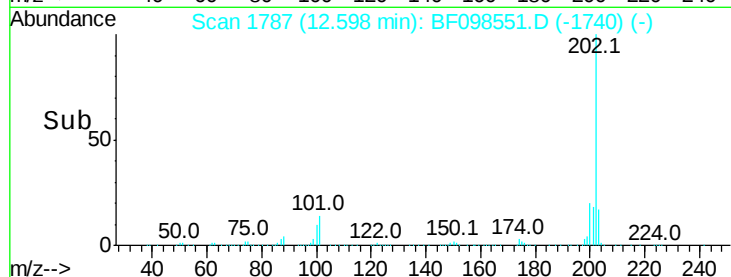
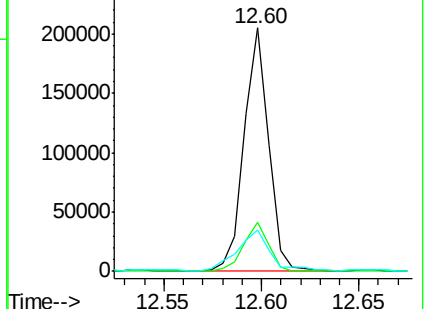
203 17.2 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 32.524 ng

RT: 12.75 min Scan# 1812

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

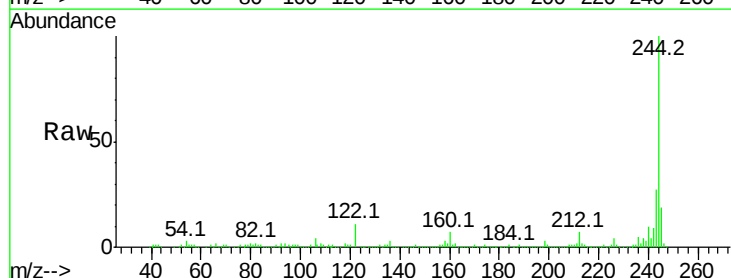
Tgt Ion:244 Resp: 424391

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

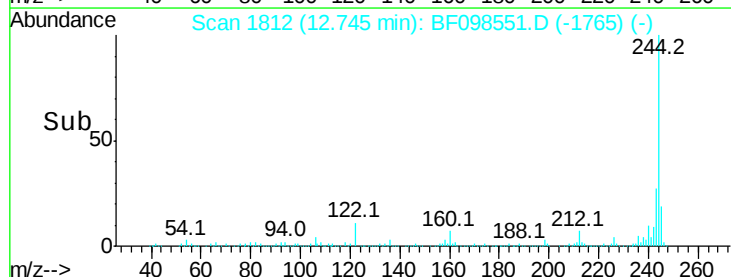
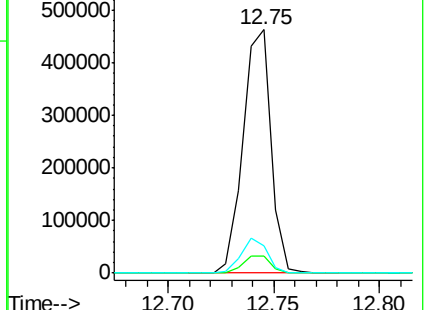
122 11.4 10.3 15.5

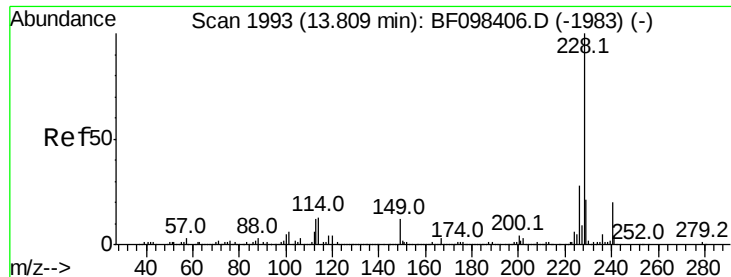


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 5.041 ng

RT: 13.79 min Scan# 1989

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

Instrument :

BNA_F

ClientSampleId :

SP-1

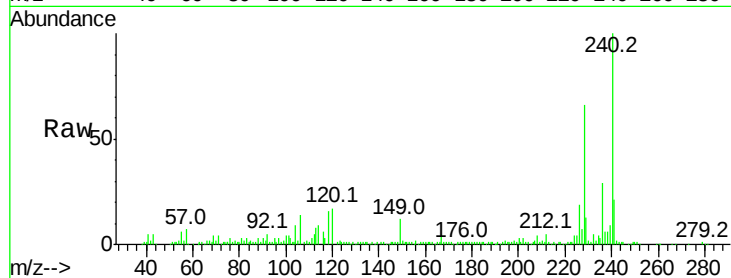
Tot Ion:228 Resp: 83243

Ion Ratio Lower Upper

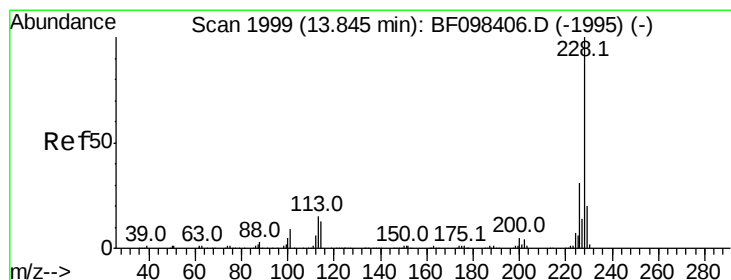
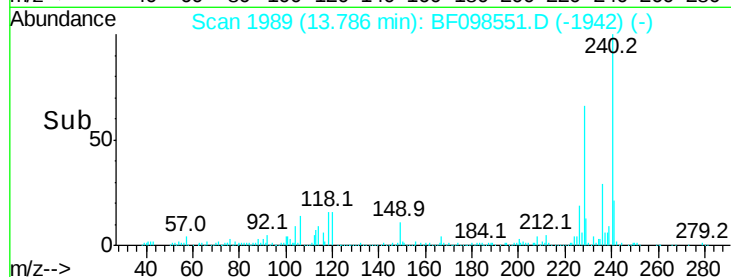
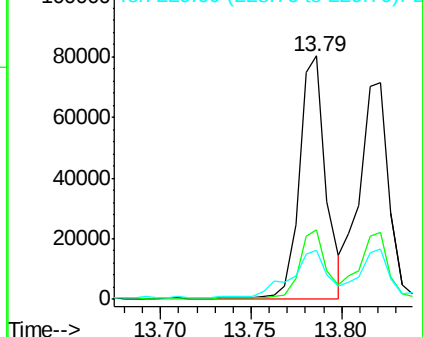
228 100

226 28.5 22.6 33.8

229 20.0 16.3 24.5



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



#82

Chrysene

Concen: 4.904 ng

RT: 13.82 min Scan# 1995

Delta R.T. -0.02 min

Lab File: BF098551.D

Acq: 15 Sep 2017 2:08

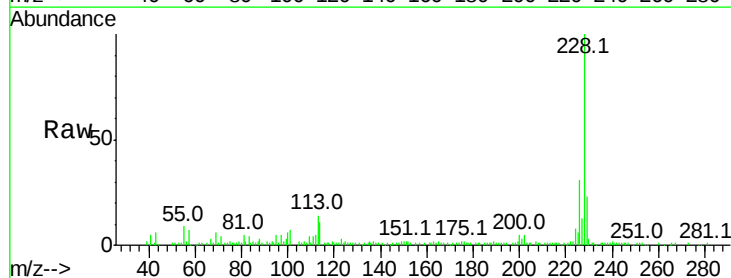
Tgt Ion:228 Resp: 81857

Ion Ratio Lower Upper

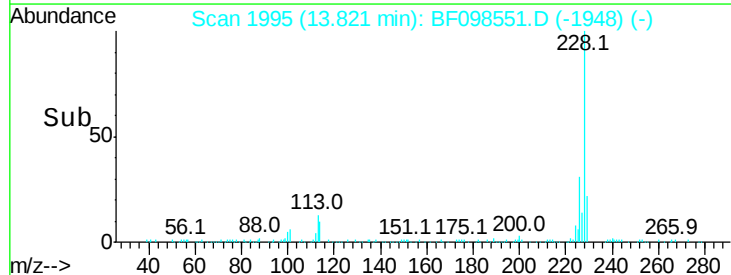
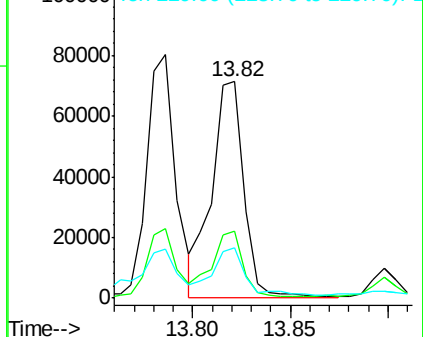
228 100

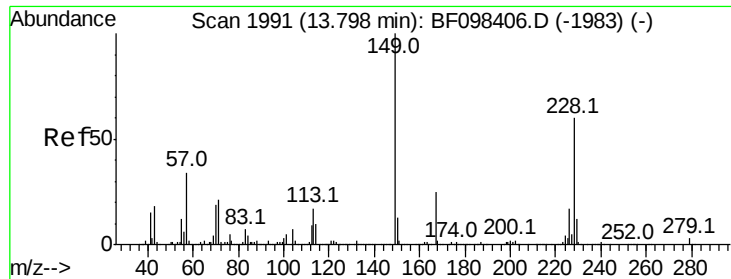
226 31.0 24.9 37.3

229 23.5 15.8 23.6



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

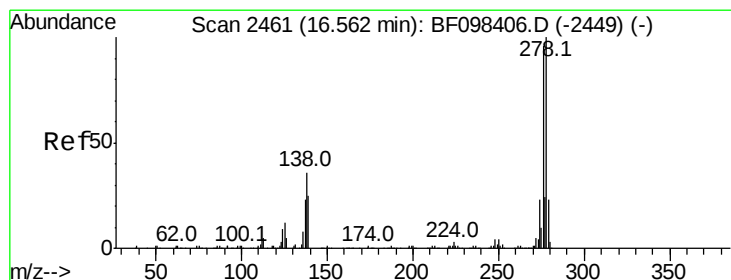
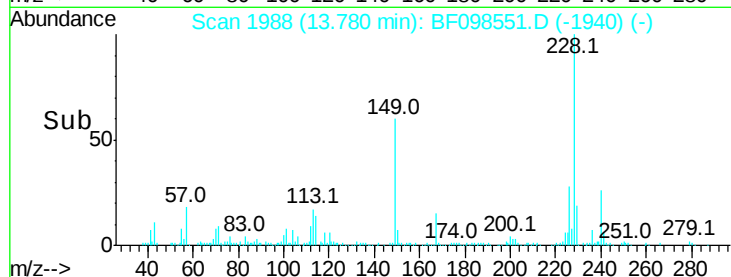
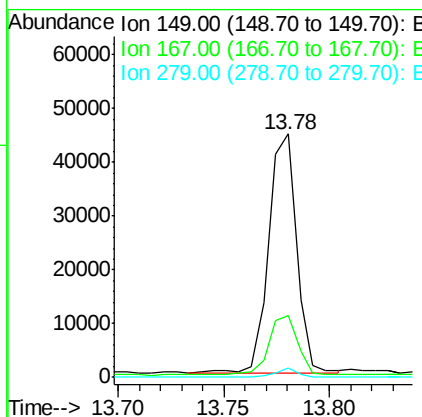
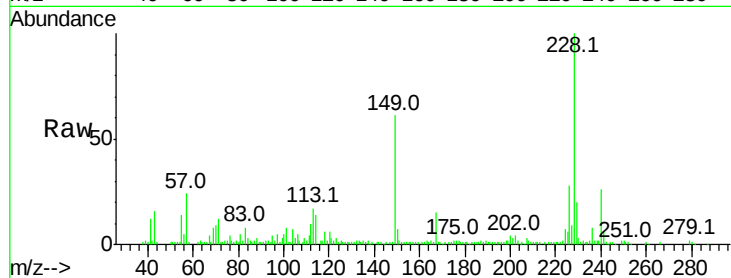




#83
Bis(2-ethylhexyl)phthalate
Concen: 3.377 ng
RT: 13.78 min Scan# 1988
Delta R.T. -0.02 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

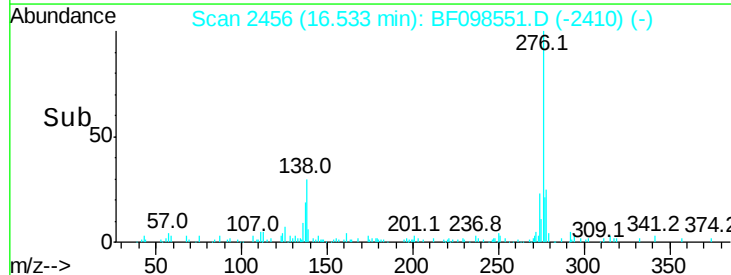
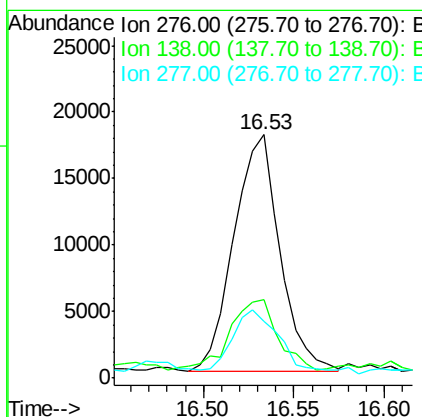
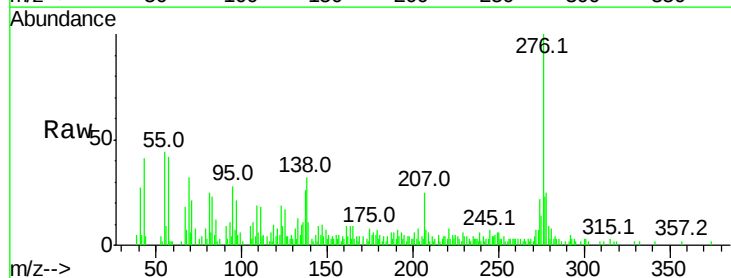
Instrument :
BNA_F
ClientSampled :
SP-1

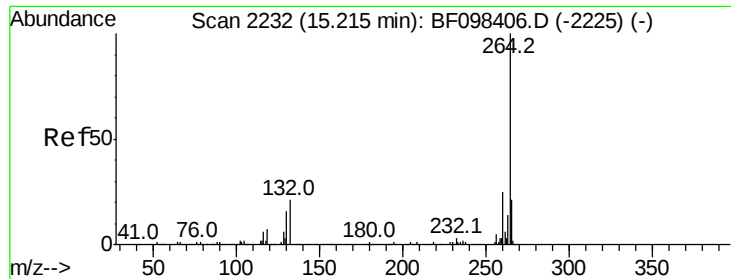
Tot Ion:149 Resp: 40852
Ion Ratio Lower Upper
149 100
167 25.2 21.0 31.4
279 3.7 1.9 2.9#



#85
Indeno(1,2,3-cd)pyrene
Concen: 2.667 ng
RT: 16.53 min Scan# 2456
Delta R.T. -0.03 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

Tgt Ion:276 Resp: 31235
Ion Ratio Lower Upper
276 100
138 30.8 27.8 41.6
277 28.0 20.2 30.4

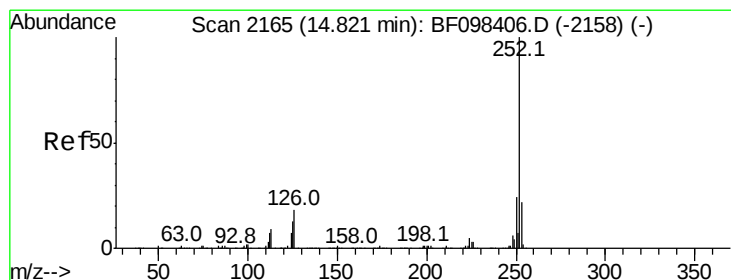
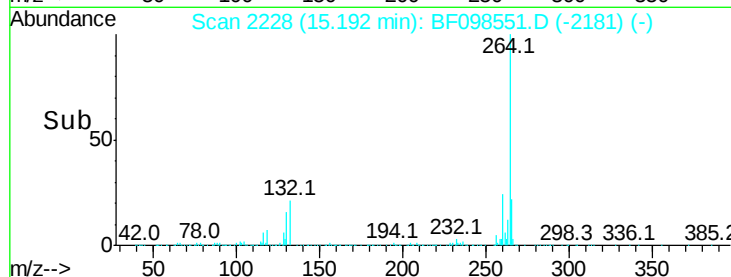
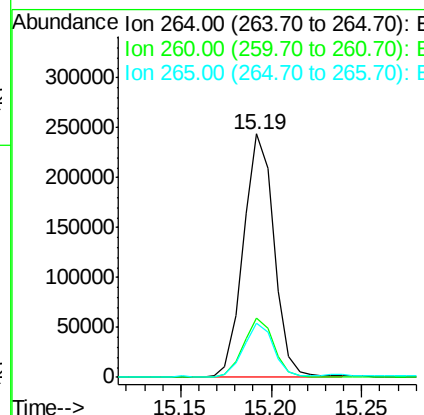
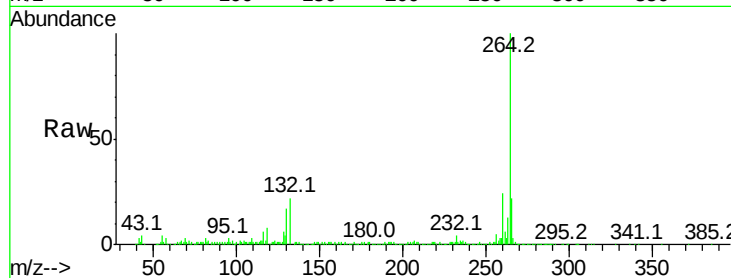




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.19 min Scan# 2228
Delta R.T. -0.02 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

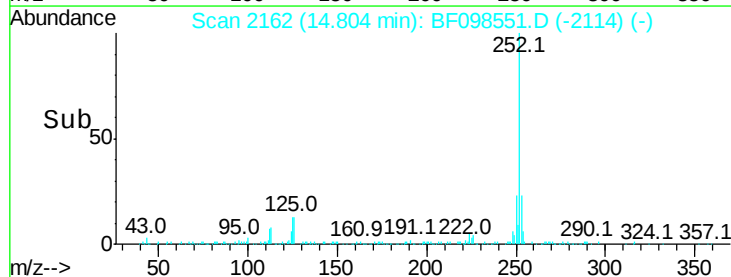
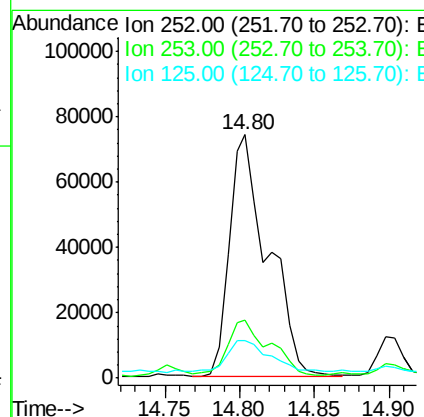
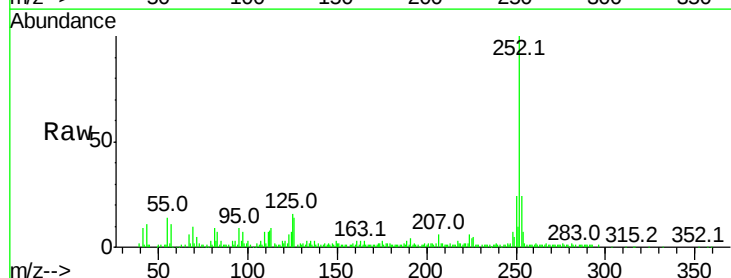
Instrument :
BNA_F
ClientSampleId :
SP-1

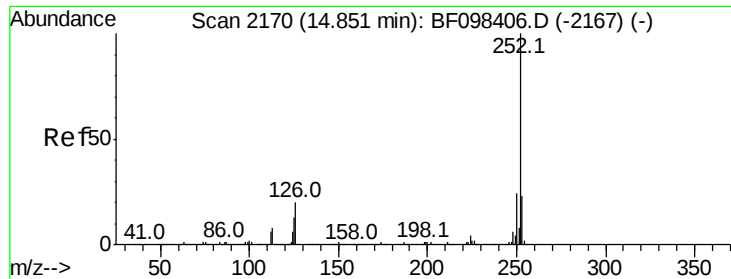
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	22.4	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 7.377 ng
RT: 14.80 min Scan# 2162
Delta R.T. -0.02 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.1	27.1
125	15.6	9.8	14.8#

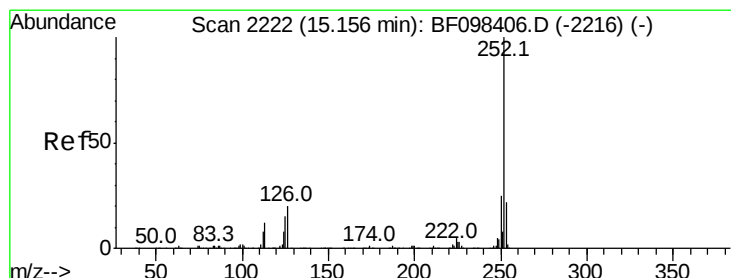
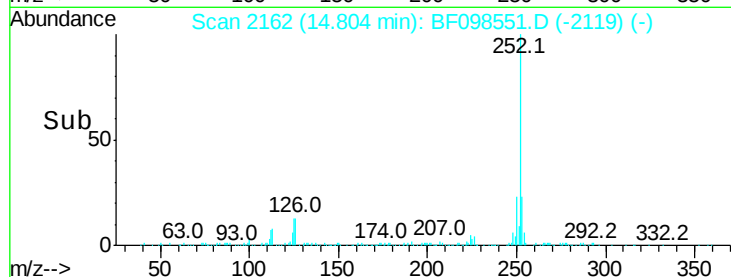
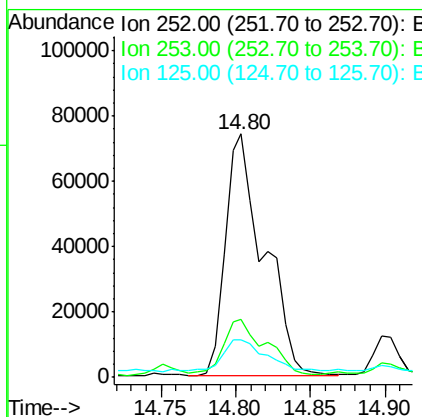
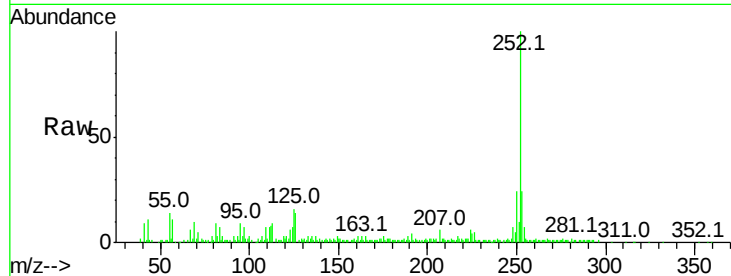




#88
Benzo(k)fluoranthene
Concen: 7.902 ng
RT: 14.80 min Scan# 2162
Delta R.T. -0.05 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

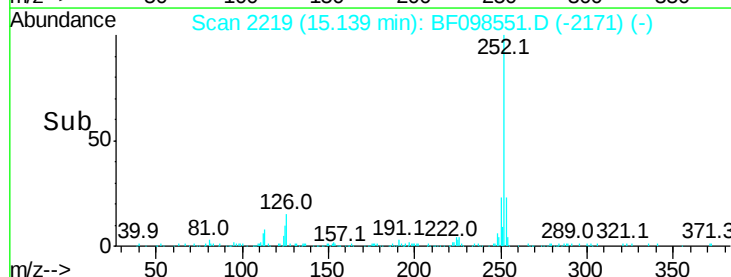
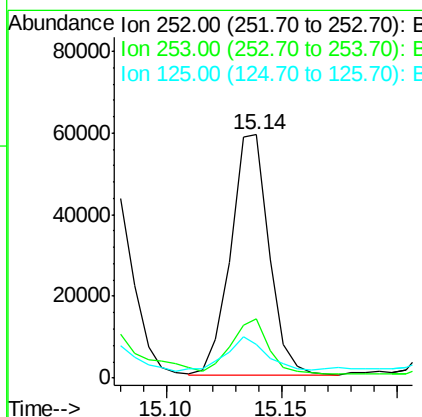
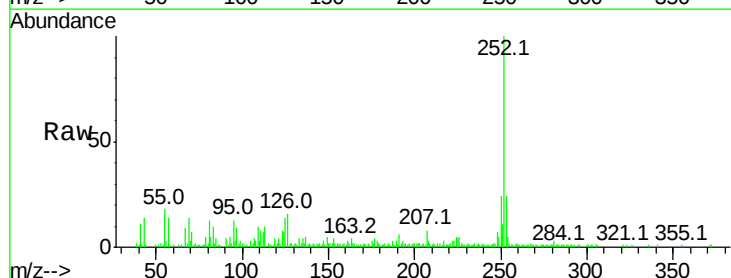
Instrument :
BNA_F
ClientSampleId :
SP-1

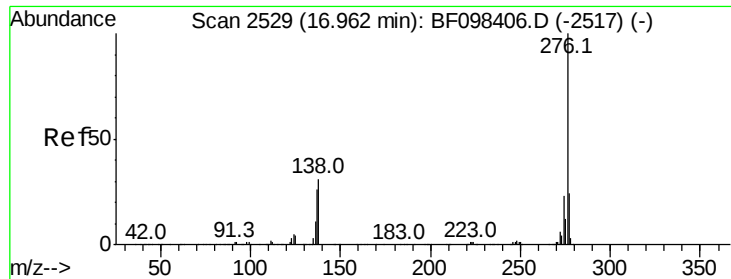
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.4	27.6
125	15.6	13.1	19.7



#89
Benzo(a)pyrene
Concen: 4.233 ng
RT: 15.14 min Scan# 2219
Delta R.T. -0.02 min
Lab File: BF098551.D
Acq: 15 Sep 2017 2:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.5	26.3
125	13.9	11.0	16.4

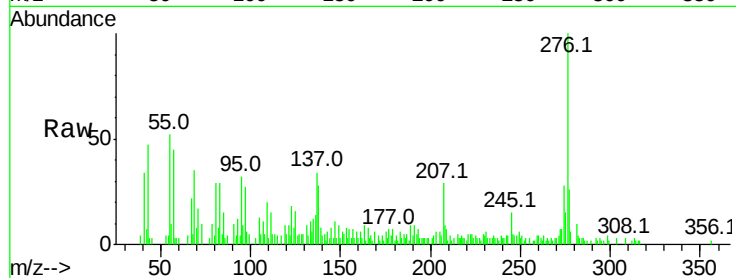




#91
 Benzo(a,h,i)perylene
 Concen: 2.575 ng
 RT: 16.93 min Scan# 2524
 Delta R.T. -0.03 min
 Lab File: BF098551.D
 Acq: 15 Sep 2017 2:08

Instrument :
 BNA_F
 ClientSampleId :
 SP-1

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.8	18.6	28.0
138	28.4	25.4	38.0



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

