

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
 Data File : BF098776.D
 Acq On : 25 Sep 2017 11:54
 Operator : SJ/JU
 Sample : I5360-11RE 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 26 05:12:45 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	147171	20.00	ng	0.00
21) Naphthalene-d8	8.20	136	562285	20.00	ng	0.00
38) Acenaphthene-d10	9.95	164	200002	20.00	ng	-0.01
63) Phenanthrene-d10	11.44	188	292436	20.00	ng	0.00
75) Chrysene-d12	14.08	240	285472	20.00	ng	0.00
86) Perylene-d12	15.57	264	256043	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.52	112	179609	19.43	ng	-0.02
7) Phenol-d6	6.53	99	213589	18.73	ng	-0.02
23) Nitrobenzene-d5	7.47	82	122758	14.00	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	25917	15.84	ng	-0.02
44) 2-Fluorobiphenyl	9.27	172	222178	18.55	ng	-0.01
78) Terphenyl-d14	13.02	244	148972	11.87	ng	-0.02

Target Compounds

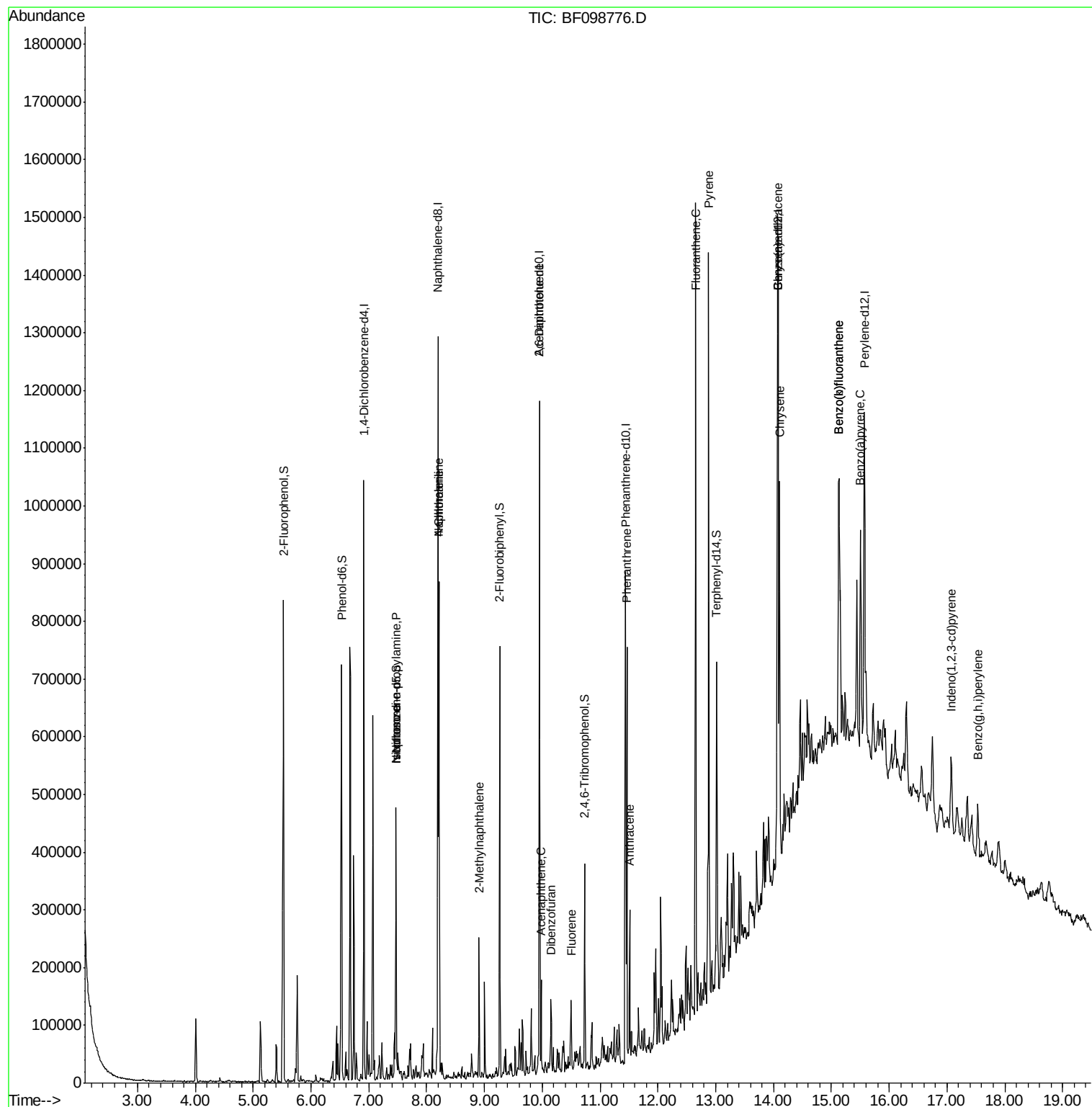
						Qvalue
19) n-Nitroso-di-n-propylamine	7.47	70	18355	2.521	ng	# 78
25) Isophorone	7.47	82	121587	6.707	ng	# 64
31) Naphthalene	8.22	128	235748	8.927	ng	99
33) 4-Chloroaniline	8.22	127	31301	2.838	ng	# 45
37) 2-Methylnaphthalene	8.90	142	58959	3.434	ng	99
50) 2,6-Dinitrotoluene	9.95	165	27277	8.300	ng	# 27
51) Acenaphthene	9.98	154	28272	2.259	ng	96
54) Dibenzofuran	10.15	168	34327	2.060	ng	# 96
57) Fluorene	10.50	166	35821	2.675	ng	99
70) Phenanthrene	11.46	178	242376	15.484	ng	99
71) Anthracene	11.51	178	88610	5.532	ng	100
74) Fluoranthene	12.65	202	488139	30.796	ng	99
77) Pyrene	12.88	202	502227	23.071	ng	99
80) Benzo(a)anthracene	14.07	228	239957	13.882	ng	94
82) Chrysene	14.10	228	241245	14.659	ng	97
85) Indeno(1,2,3-cd)pyrene	17.07	276	78181	5.939	ng	98
87) Benzo(b)fluoranthene	15.13	252	351381	22.320	ng	# 93
88) Benzo(k)fluoranthene	15.13	252	351381	22.598	ng	# 95
89) Benzo(a)pyrene	15.50	252	180072	12.461	ng	# 93
91) Benzo(a,h,i)perylene	17.53	276	76852	6.723	ng	94

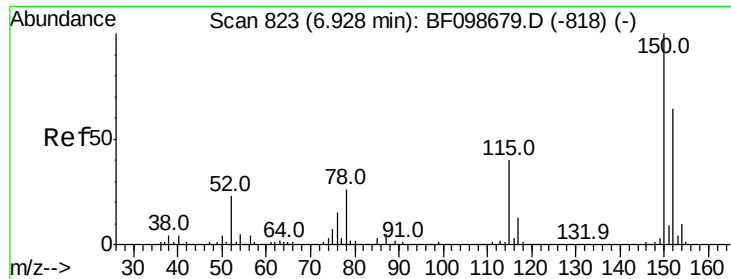
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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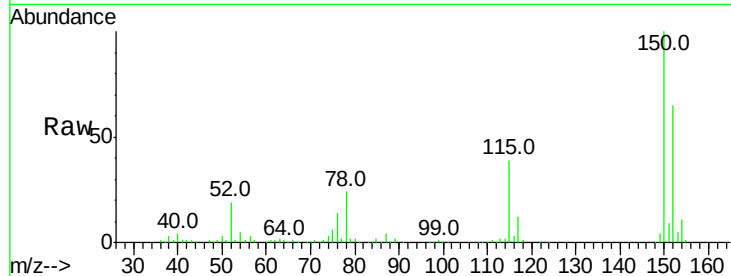


#1

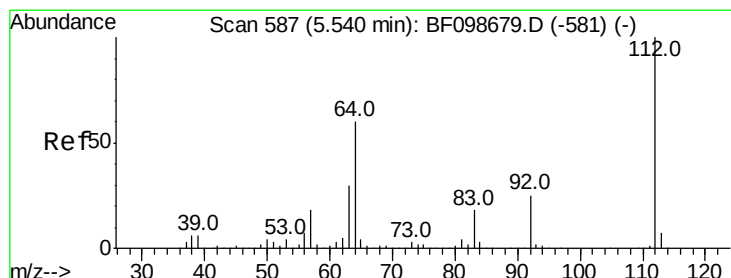
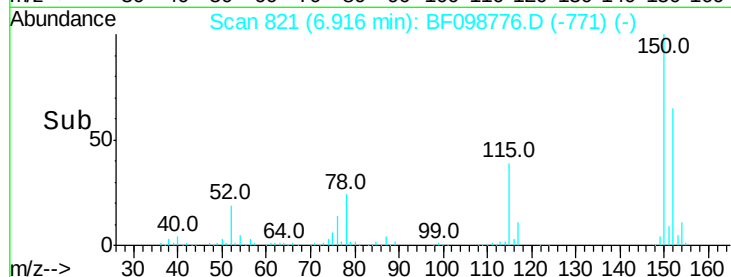
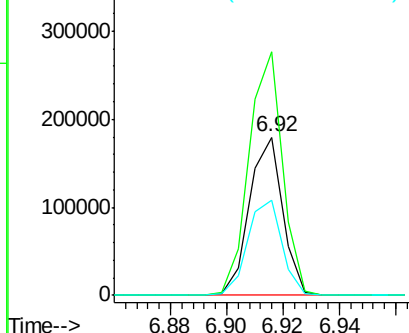
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF098776.D
Acq: 25 Sep 2017 11:54

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 147171
Ion Ratio Lower Upper
152 100
150 154.1 124.6 186.8
115 60.0 50.1 75.1



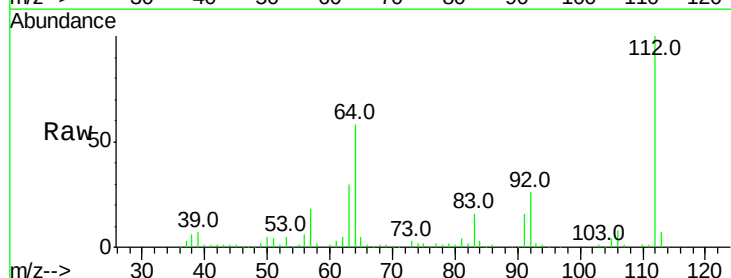
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



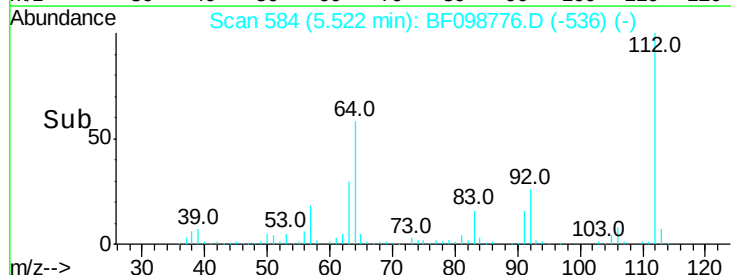
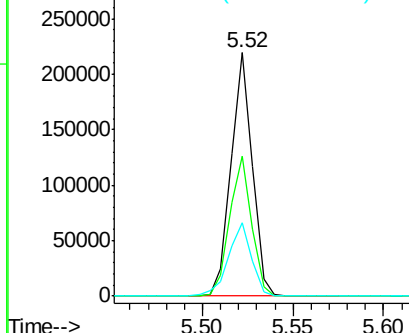
#5

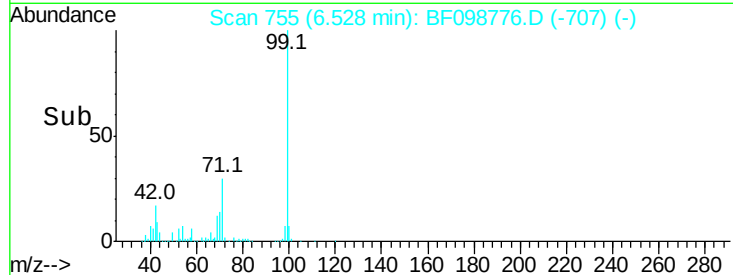
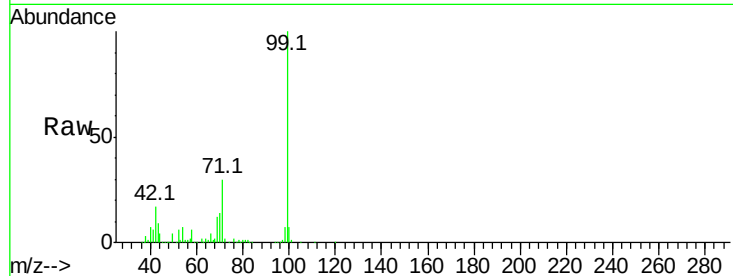
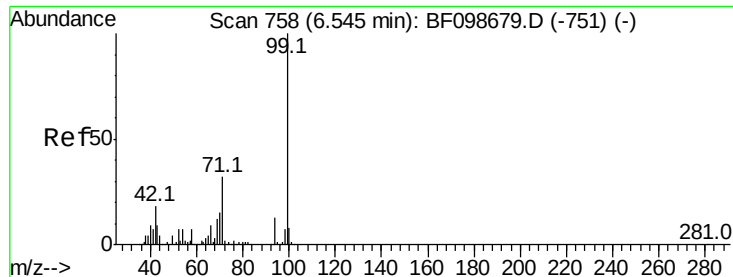
2-Fluorophenol
Concen: 19.428 ng
RT: 5.52 min Scan# 584
Delta R.T. -0.02 min
Lab File: BF098776.D
Acq: 25 Sep 2017 11:54

Tgt Ion:112 Resp: 179609
Ion Ratio Lower Upper
112 100
64 57.6 47.9 71.9
63 29.9 23.7 35.5



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: 18.728 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.02 min

Lab File: BF098776.D

Acq: 25 Sep 2017 11:54

Instrument :

BNA_F

ClientSampleId :

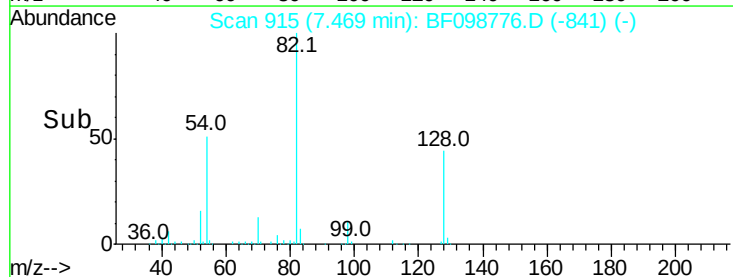
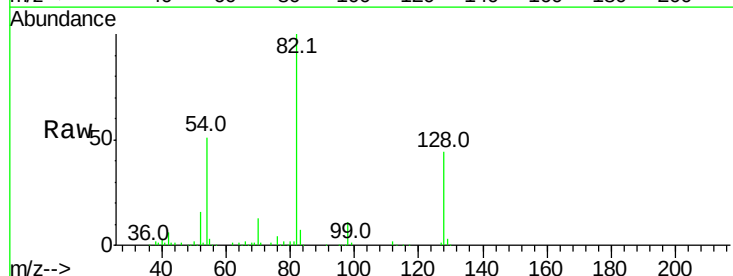
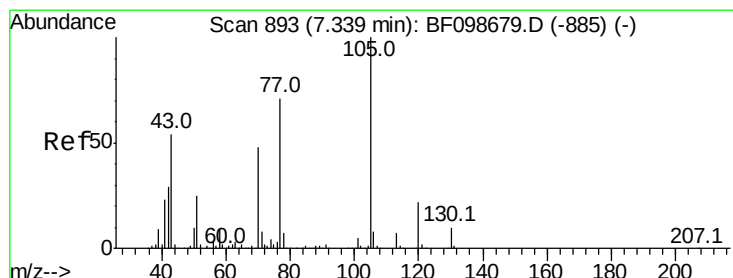
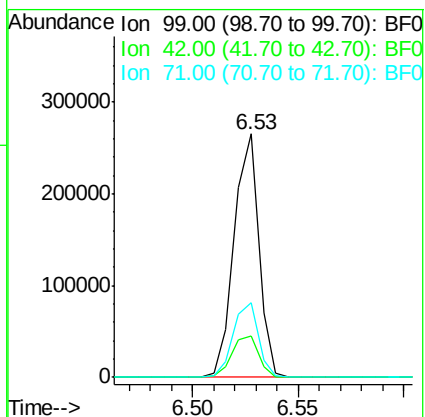
Tot Ion: 99 Resp: 213589

Ion Ratio Lower Upper

99 100

42 17.2 14.5 21.7

71 30.5 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 2.521 ng

RT: 7.47 min Scan# 915

Delta R.T. 0.14 min

Lab File: BF098776.D

Acq: 25 Sep 2017 11:54

Tgt Ion: 70 Resp: 18355

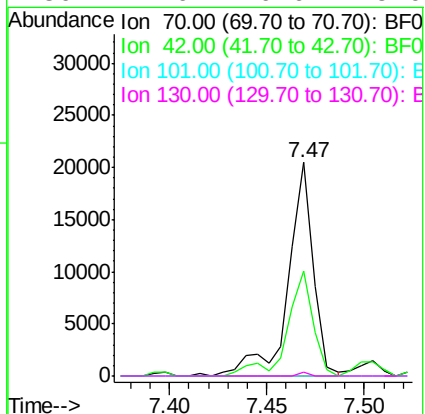
Ion Ratio Lower Upper

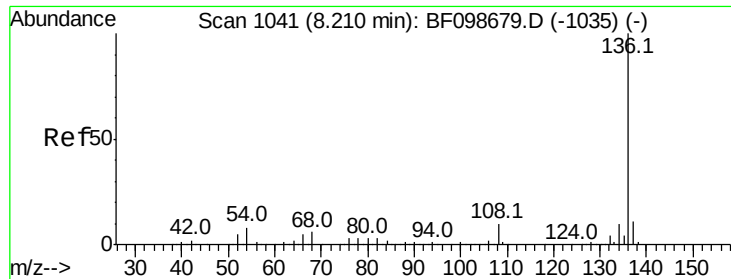
70 100

42 48.9 47.5 71.3

101 0.0 7.4 11.2#

130 1.6 16.6 25.0#

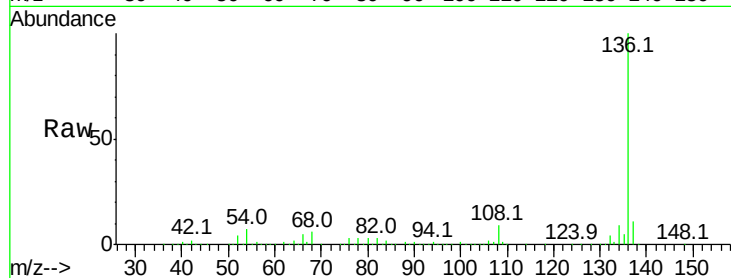




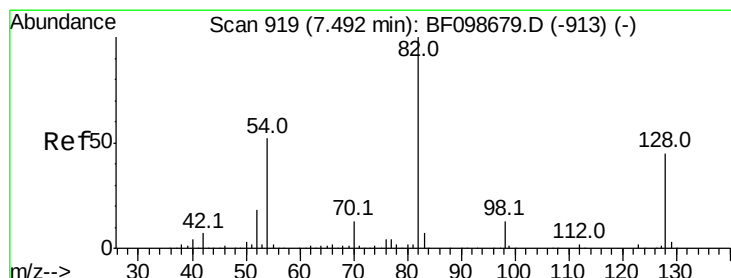
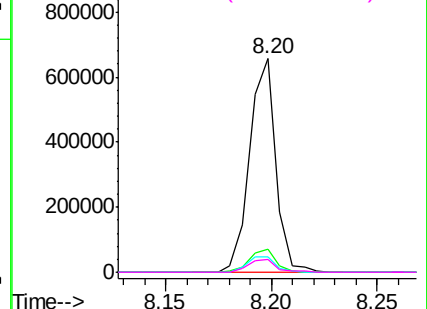
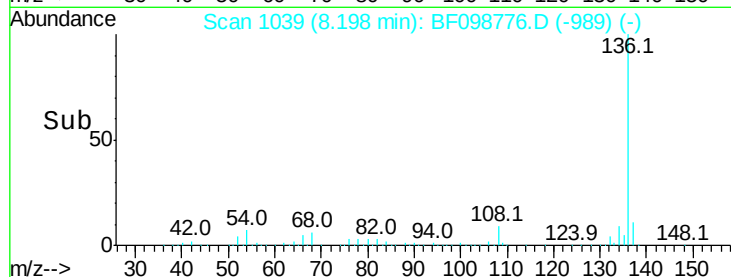
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.20 min Scan# 1039
Delta R.T. -0.01 min
Lab File: BF098776.D
Acq: 25 Sep 2017 11:54

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	562285
Ion	Ratio	Lower Upper
136	100	
137	11.0	8.9 13.3
54	7.1	6.6 9.8
68	5.8	5.0 7.4

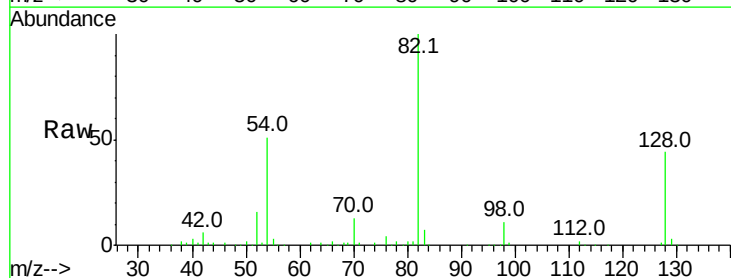


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

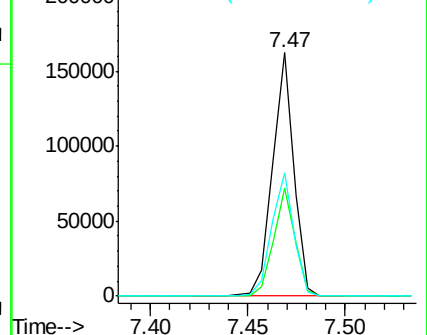
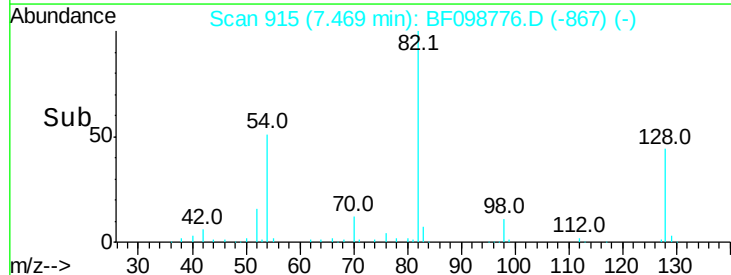


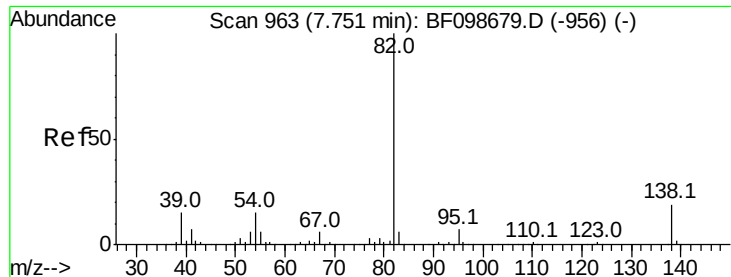
#23
Nitrobenzene-d5
Concen: 14.001 ng
RT: 7.47 min Scan# 915
Delta R.T. -0.02 min
Lab File: BF098776.D
Acq: 25 Sep 2017 11:54

Tgt Ion: 82	Resp:	122758
Ion	Ratio	Lower Upper
82	100	
128	44.4	36.1 54.1
54	50.8	41.4 62.2



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





#25

Isophorone

Concen: 6.707 ng

RT: 7.47 min Scan# 915

Delta R.T. -0.28 min

Lab File: BF098776.D

Acq: 25 Sep 2017 11:54

Instrument :

BNA_F

ClientSampleId :

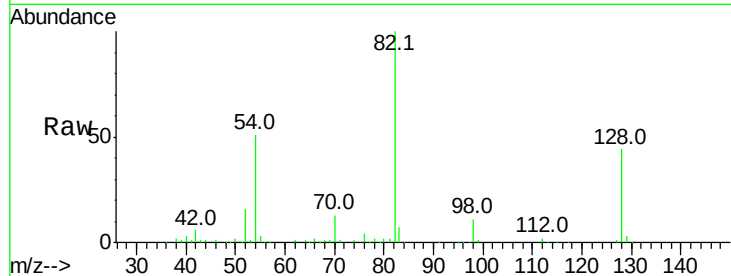
Tot Ion: 82 Resp: 121587

Ion Ratio Lower Upper

82 100

95 0.3 5.2 7.8#

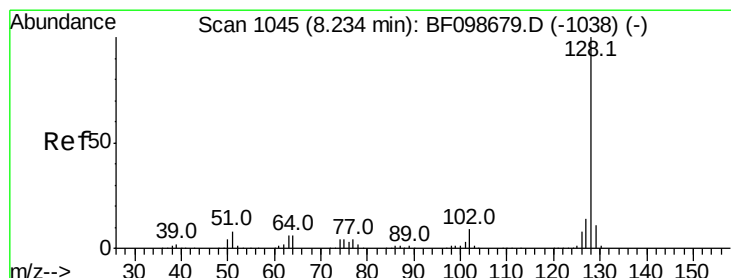
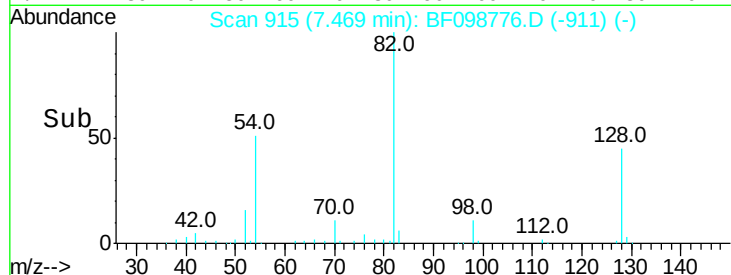
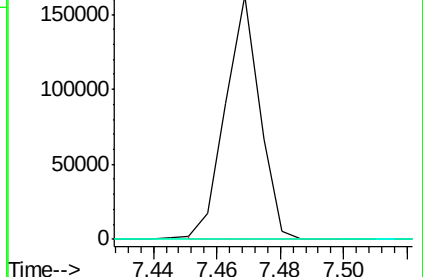
138 0.0 14.9 22.3#



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



#31

Naphthalene

Concen: 8.927 ng

RT: 8.22 min Scan# 1042

Delta R.T. -0.01 min

Lab File: BF098776.D

Acq: 25 Sep 2017 11:54

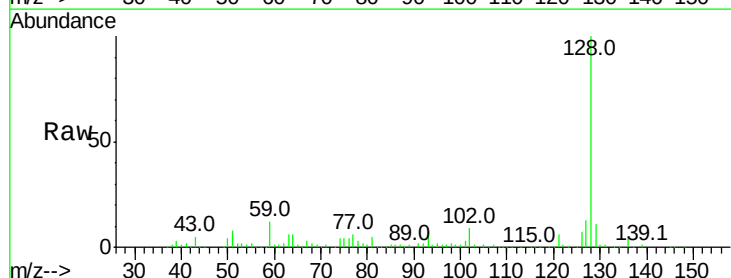
Tgt Ion: 128 Resp: 235748

Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

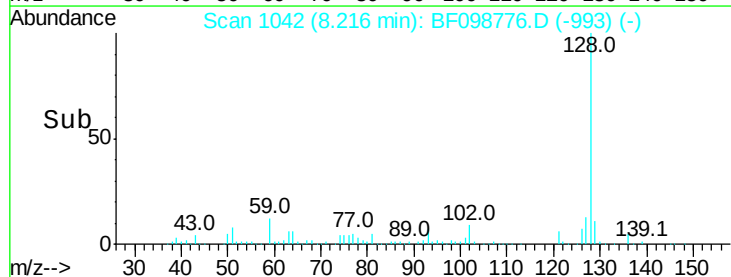
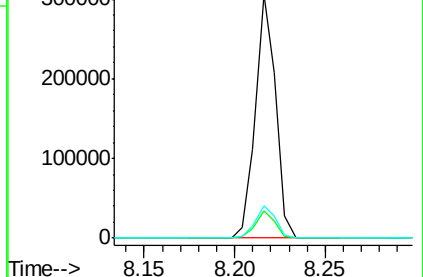
127 13.3 10.9 16.3

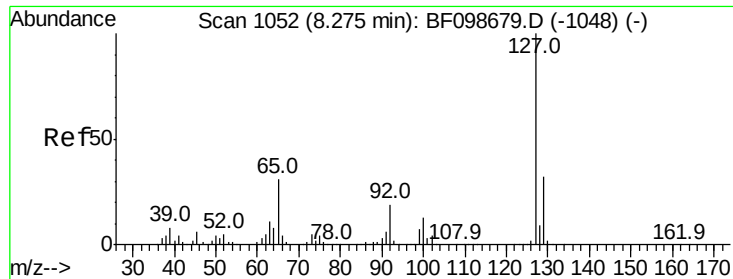


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

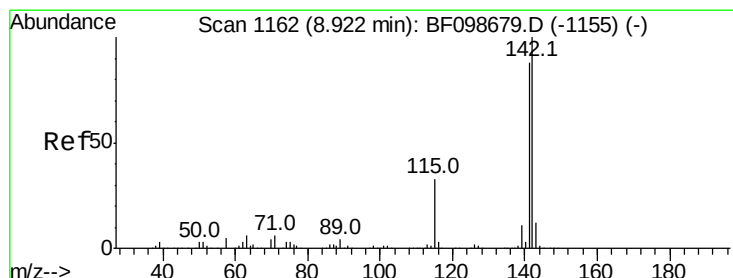
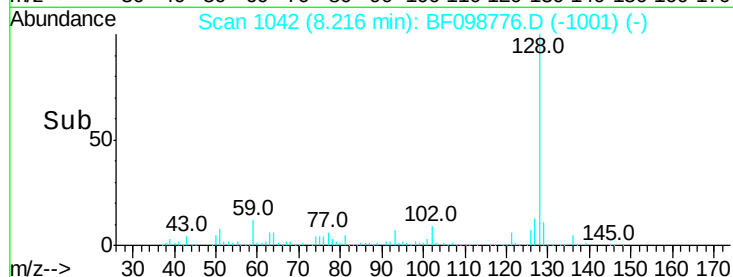
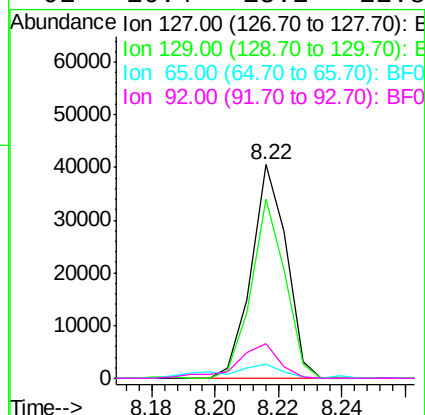
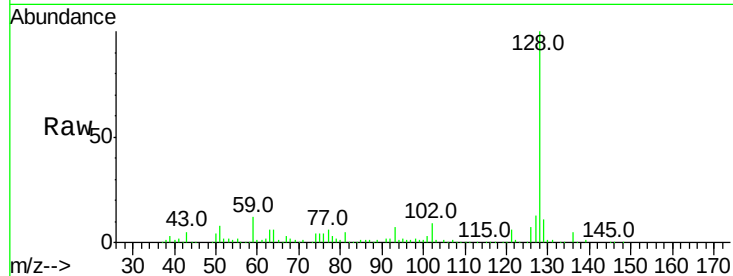




#33
 4-Chloroaniline
 Concen: 2.838 ng
 RT: 8.22 min Scan# 1042
 Delta R.T. -0.06 min
 Lab File: BF098776.D
 Acq: 25 Sep 2017 11:54

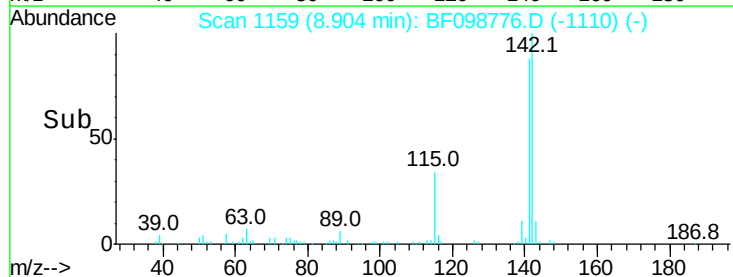
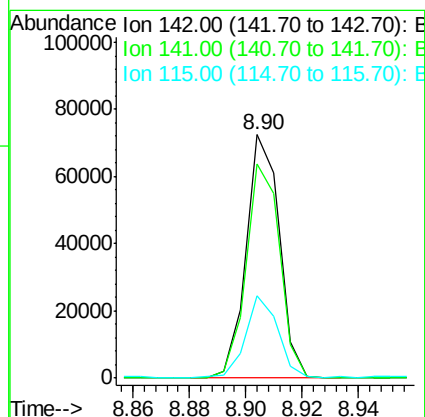
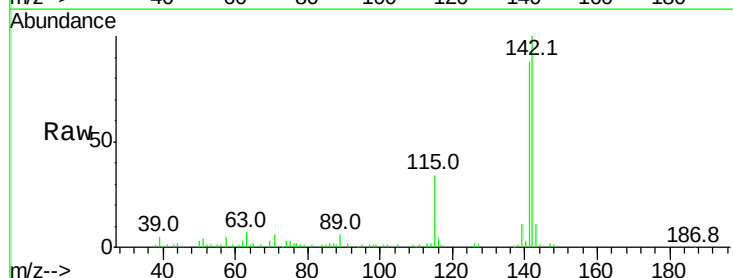
Instrument :
 BNA_F
 ClientSampleId :

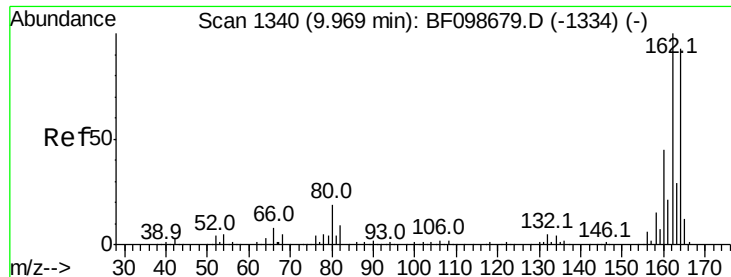
Tot Ion:	127	Resp:	31301
Ion	Ratio	Lower	Upper
127	100		
129	84.2	25.9	38.9#
65	6.3	25.0	37.4#
92	16.4	15.2	22.8



#37
 2-Methylnaphthalene
 Concen: 3.434 ng
 RT: 8.90 min Scan# 1159
 Delta R.T. -0.01 min
 Lab File: BF098776.D
 Acq: 25 Sep 2017 11:54

Tgt Ion:	142	Resp:	58959
Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.8	106.2
115	33.6	26.1	39.1

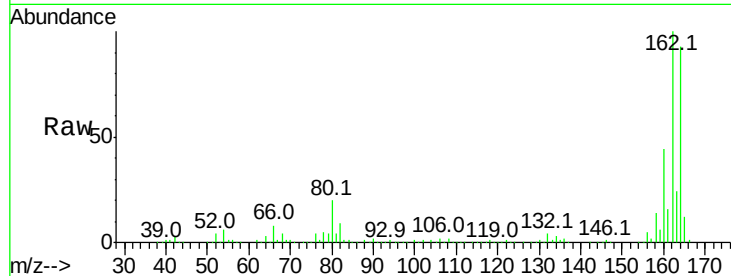




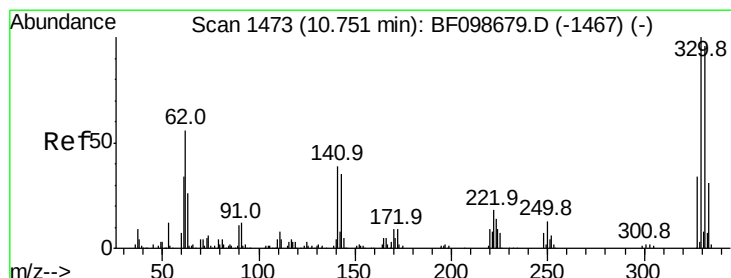
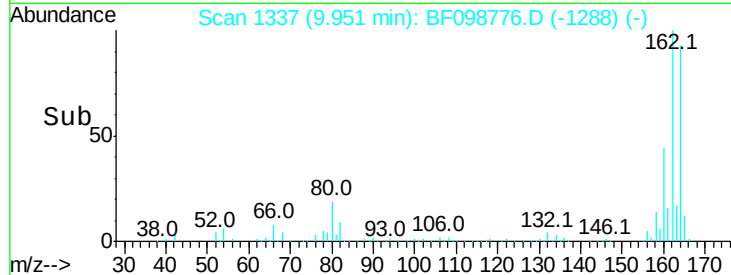
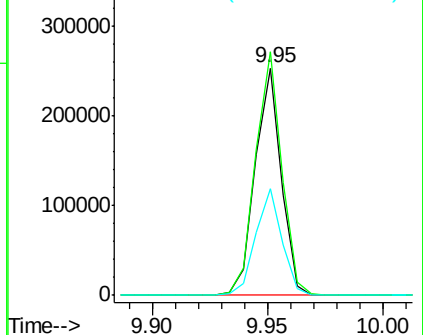
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.95 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: BF098776.D
 Acq: 25 Sep 2017 11:54

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 200002
 Ion Ratio Lower Upper
 164 100
 162 107.2 86.1 129.1
 160 47.1 38.3 57.5

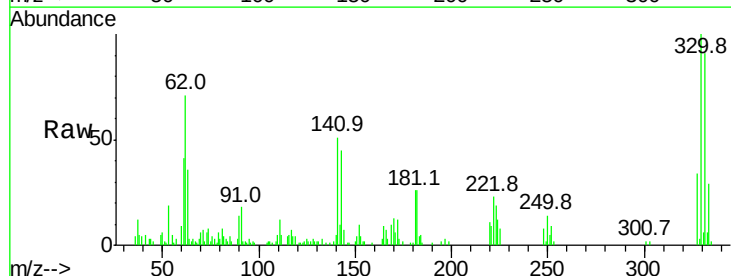


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

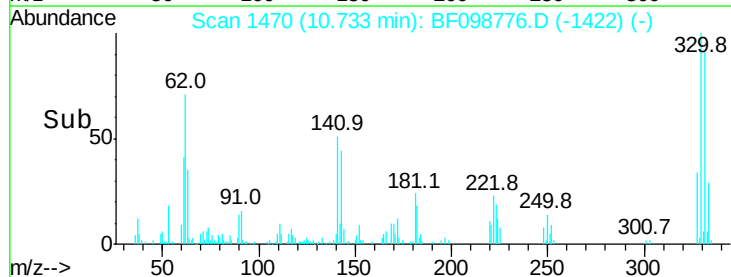
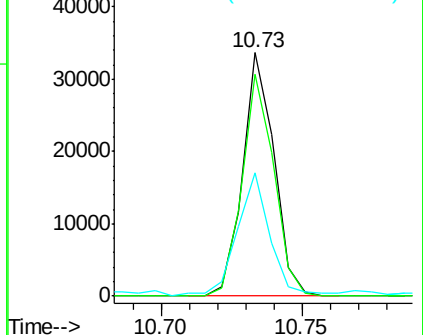


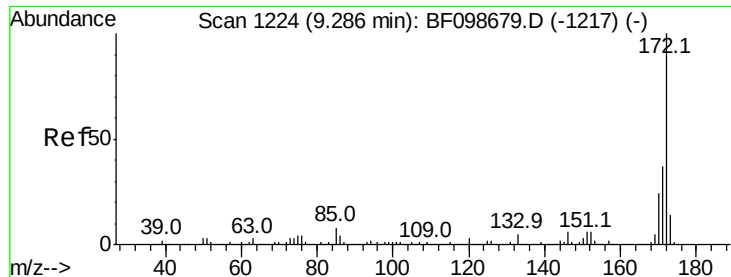
#41
 2,4,6-Tribromophenol
 Concen: 15.836 ng
 RT: 10.73 min Scan# 1470
 Delta R.T. -0.02 min
 Lab File: BF098776.D
 Acq: 25 Sep 2017 11:54

Tgt Ion:330 Resp: 25917
 Ion Ratio Lower Upper
 330 100
 332 92.6 77.0 115.6
 141 53.9 29.9 44.9#



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

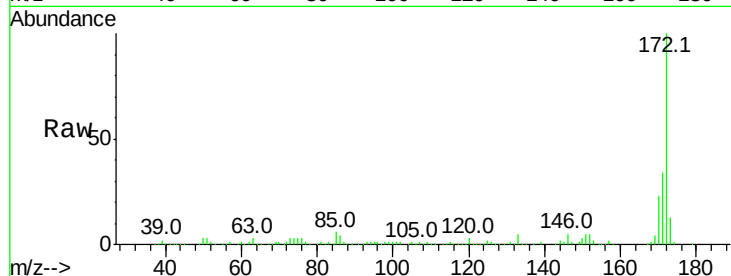




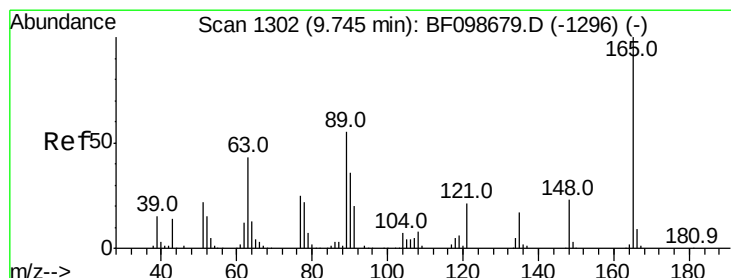
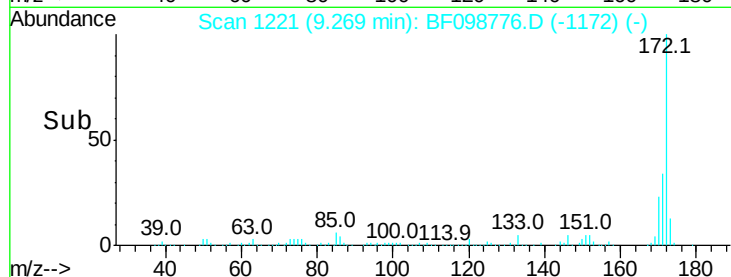
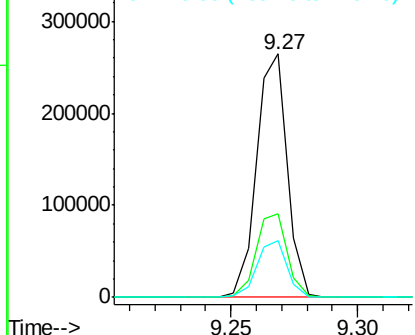
#44
 2-Fluorobiphenyl
 Concen: 18.545 ng
 RT: 9.27 min Scan# 1221
 Delta R.T. -0.01 min
 Lab File: BF098776.D
 Acq: 25 Sep 2017 11:54

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.3	29.7	44.5
170	23.3	19.6	29.4

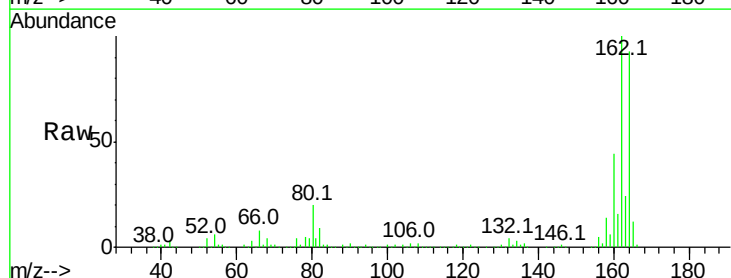


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

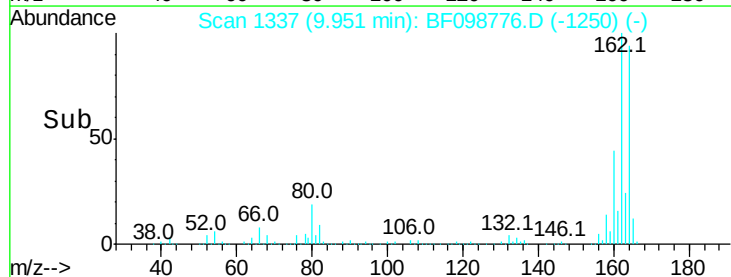
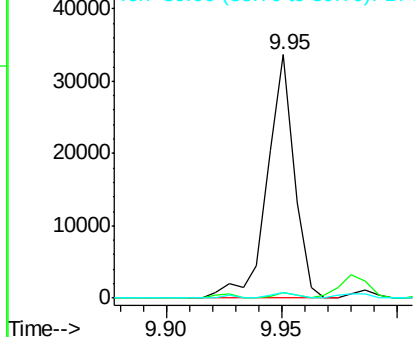


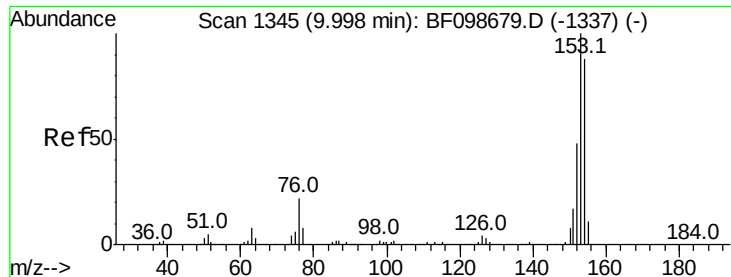
#50
 2,6-Dinitrotoluene
 Concen: 8.300 ng
 RT: 9.95 min Scan# 1337
 Delta R.T. 0.21 min
 Lab File: BF098776.D
 Acq: 25 Sep 2017 11:54

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.2	44.7	67.1#
89	2.1	44.0	66.0#



Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 2.259 ng

RT: 9.98 min Scan# 1342

Delta R.T. -0.02 min

Lab File: BF098776.D

Acq: 25 Sep 2017 11:54

Instrument :

BNA_F

ClientSampled :

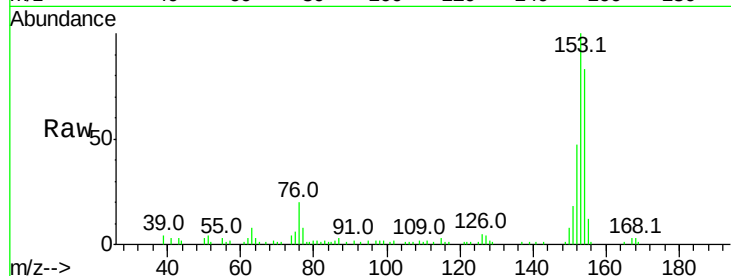
Tot Ion:154 Resp: 28272

Ion Ratio Lower Upper

154 100

153 119.8 91.2 136.8

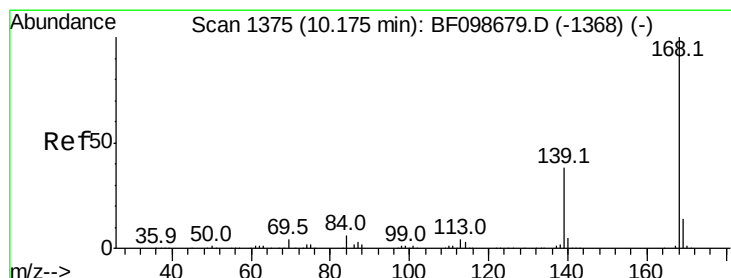
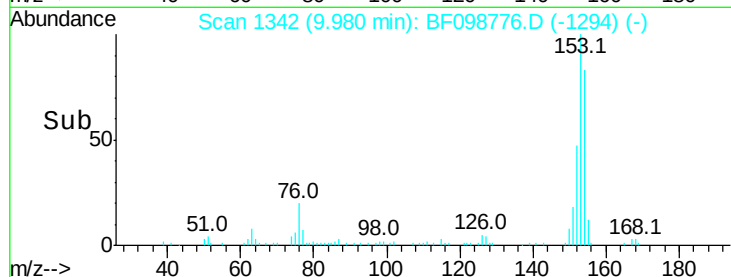
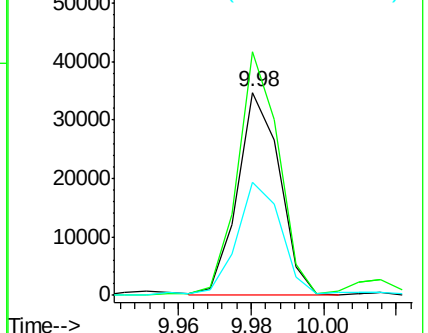
152 55.9 43.8 65.8



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



#54

Dibenzofuran

Concen: 2.060 ng

RT: 10.15 min Scan# 1371

Delta R.T. -0.02 min

Lab File: BF098776.D

Acq: 25 Sep 2017 11:54

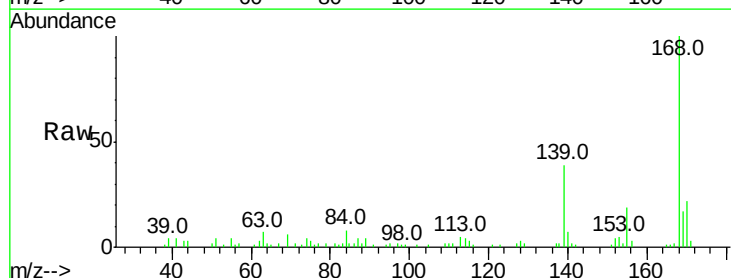
Tgt Ion:168 Resp: 34327

Ion Ratio Lower Upper

168 100

139 39.3 30.1 45.1

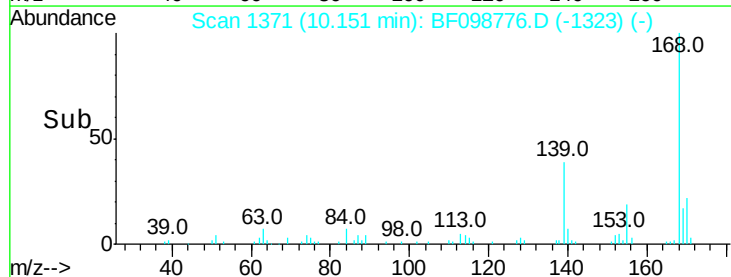
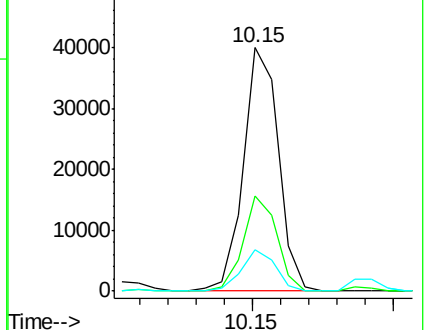
169 17.0 10.9 16.3#

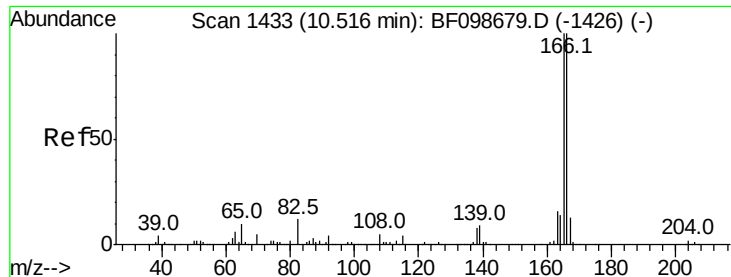


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

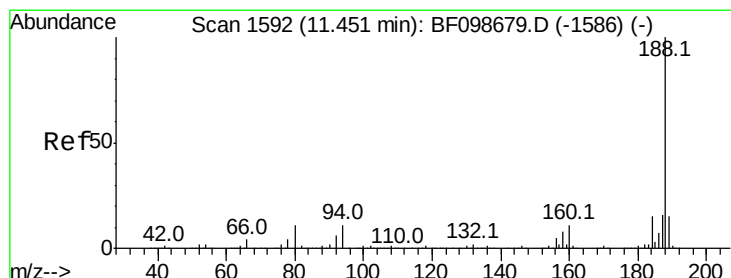
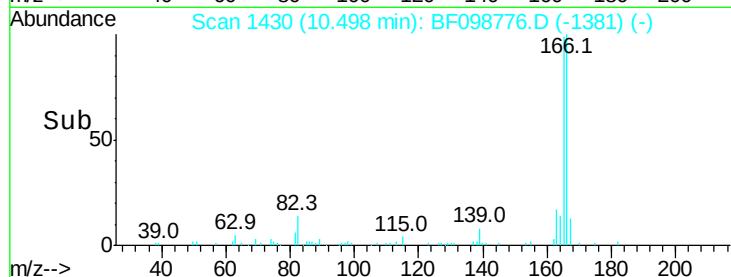
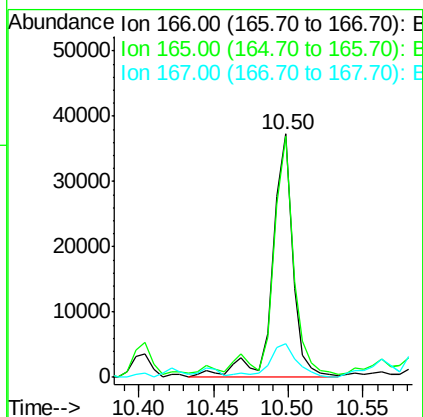
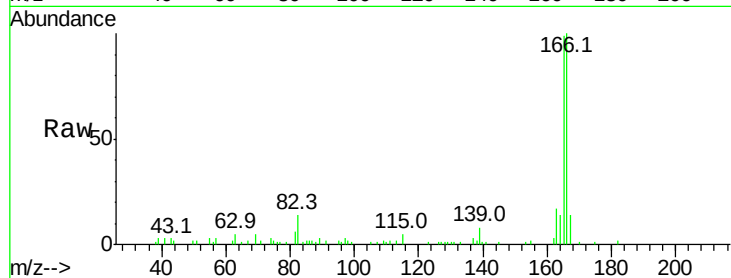




#57
 Fluorene
 Concen: 2.675 ng
 RT: 10.50 min Scan# 1430
 Delta R.T. -0.01 min
 Lab File: BF098776.D
 Acq: 25 Sep 2017 11:54

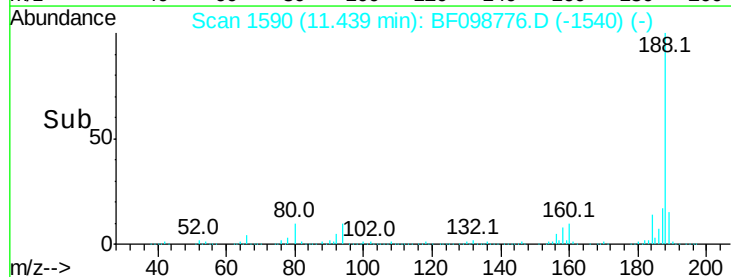
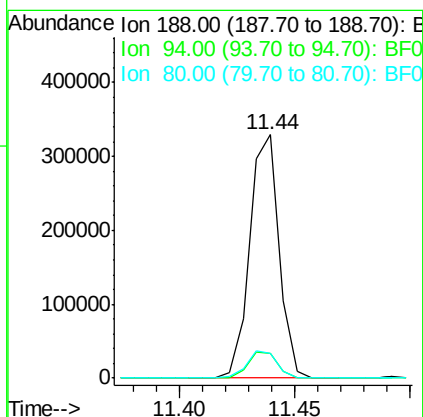
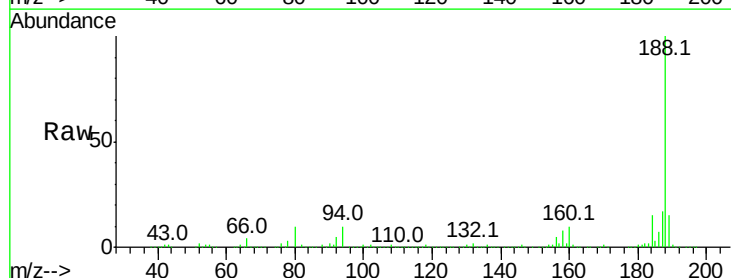
Instrument :
 BNA_F
 ClientSampled :

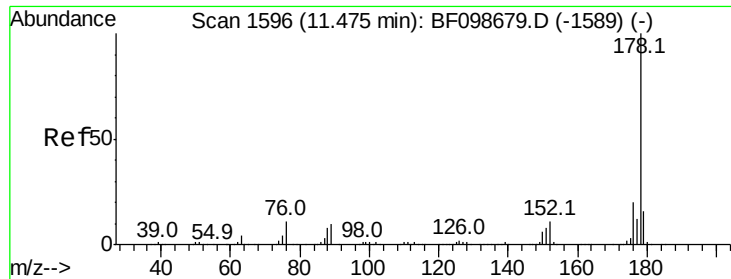
Tot Ion:166 Resp: 35821
 Ion Ratio Lower Upper
 166 100
 165 99.2 79.8 119.8
 167 14.0 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.44 min Scan# 1590
 Delta R.T. -0.01 min
 Lab File: BF098776.D
 Acq: 25 Sep 2017 11:54

Tgt Ion:188 Resp: 292436
 Ion Ratio Lower Upper
 188 100
 94 10.0 8.5 12.7
 80 10.4 9.2 13.8

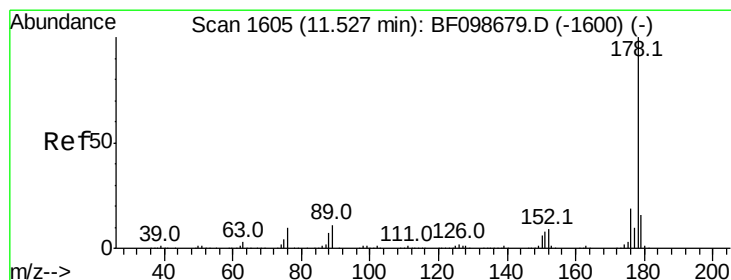
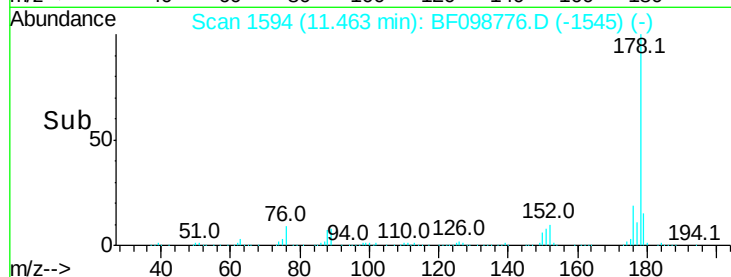
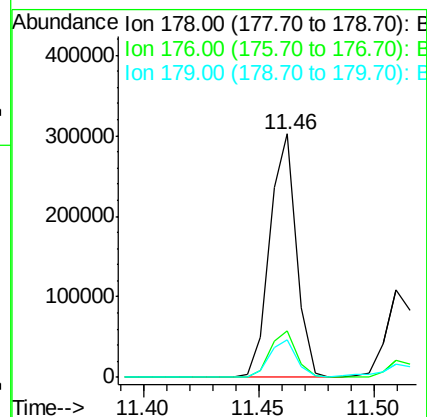
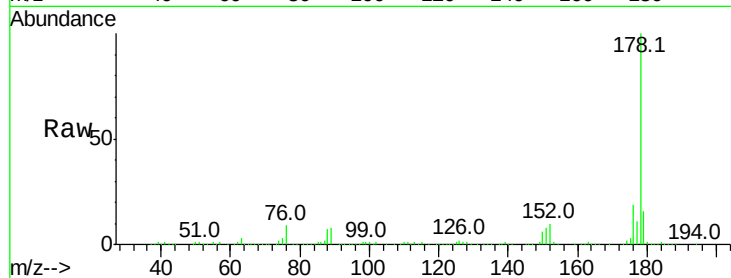




#70
Phenanthrene
Concen: 15.484 ng
RT: 11.46 min Scan# 1594
Delta R.T. -0.01 min
Lab File: BF098776.D
Acq: 25 Sep 2017 11:54

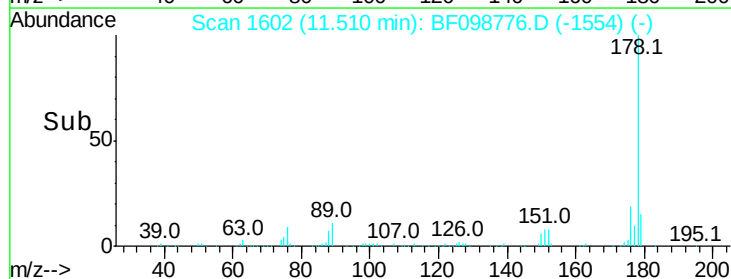
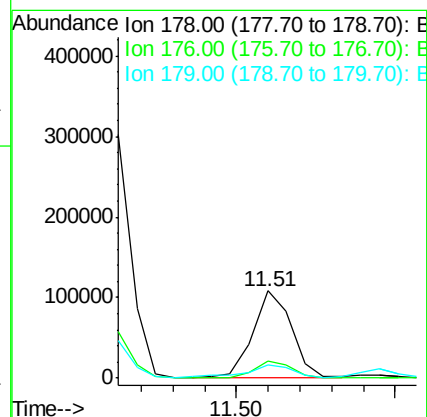
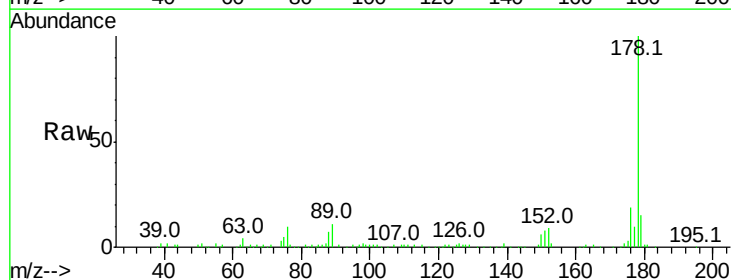
Instrument :
BNA_F
ClientSampleId :

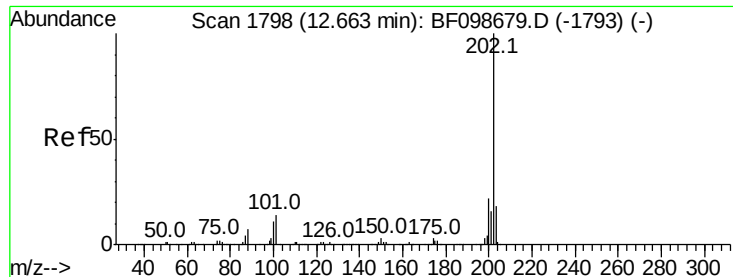
Tot Ion:178 Resp: 242376
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 15.6 13.0 19.6



#71
Anthracene
Concen: 5.532 ng
RT: 11.51 min Scan# 1602
Delta R.T. -0.02 min
Lab File: BF098776.D
Acq: 25 Sep 2017 11:54

Tgt Ion:178 Resp: 88610
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.6 19.0





#74

Fluoranthene

Concen: 30.796 ng

RT: 12.65 min Scan# 1796

Delta R.T. -0.01 min

Lab File: BF098776.D

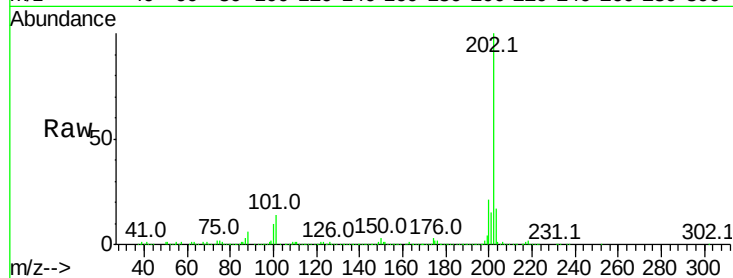
Acq: 25 Sep 2017 11:54

Instrument :

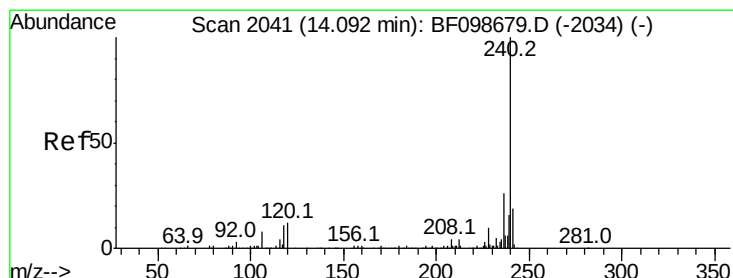
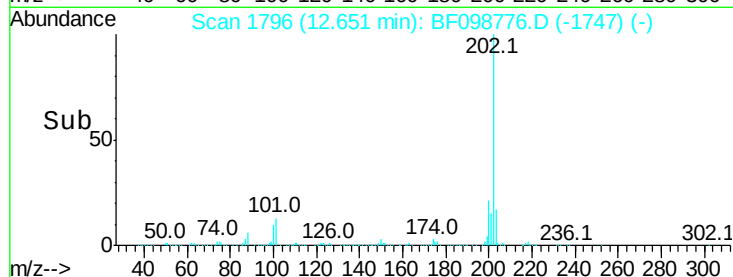
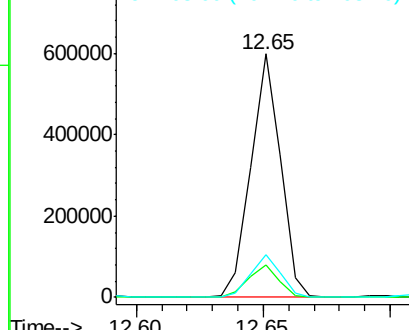
BNA_F

ClientSampleId :

Tot Ion:	202	Resp:	488139
Ion Ratio	Lower	Upper	
202	100		
101	13.6	0.0	34.1
203	17.5	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

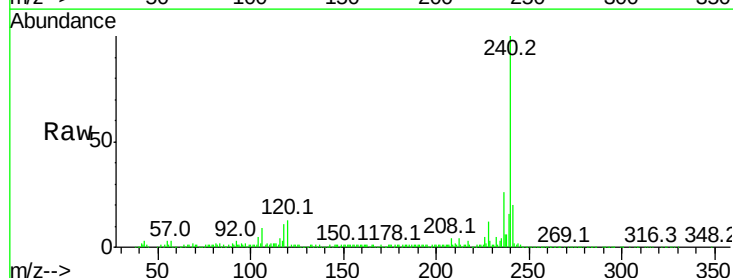
RT: 14.08 min Scan# 2039

Delta R.T. -0.01 min

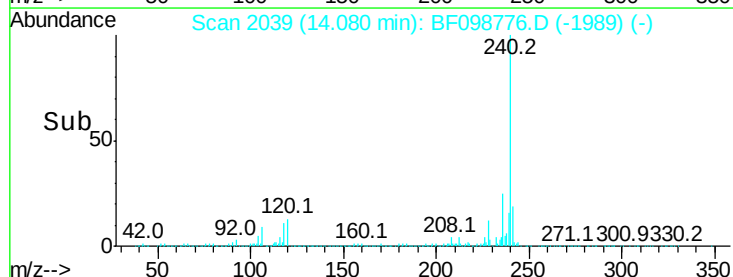
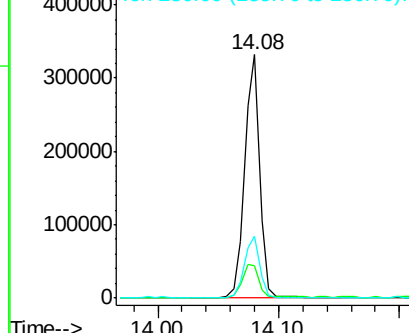
Lab File: BF098776.D

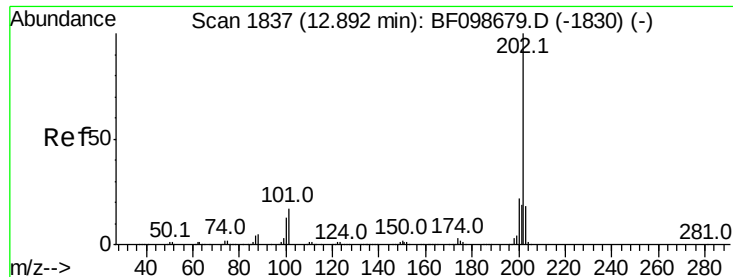
Acq: 25 Sep 2017 11:54

Tgt Ion:	240	Resp:	285472
Ion Ratio	Lower	Upper	
240	100		
120	13.2	9.5	14.3
236	25.5	20.7	31.1



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: 23.071 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF098776.D

Acq: 25 Sep 2017 11:54

Instrument :

BNA_F

ClientSampleId :

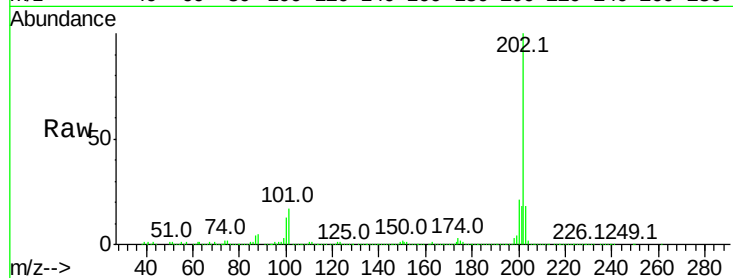
Tot Ion:202 Resp: 502227

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

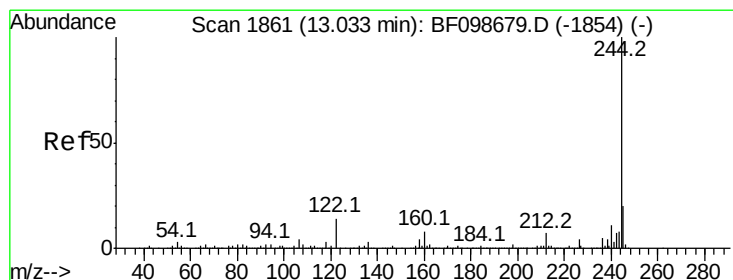
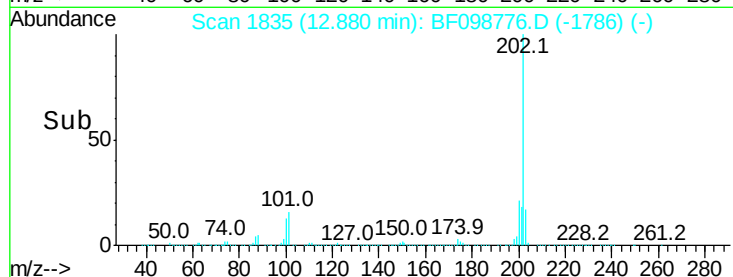
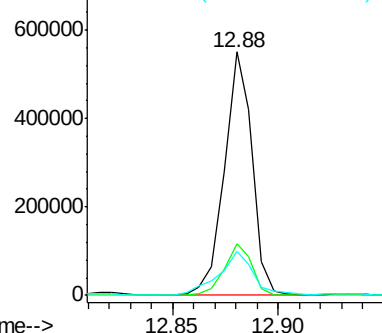
203 17.8 14.3 21.5



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: 11.868 ng

RT: 13.02 min Scan# 1858

Delta R.T. -0.02 min

Lab File: BF098776.D

Acq: 25 Sep 2017 11:54

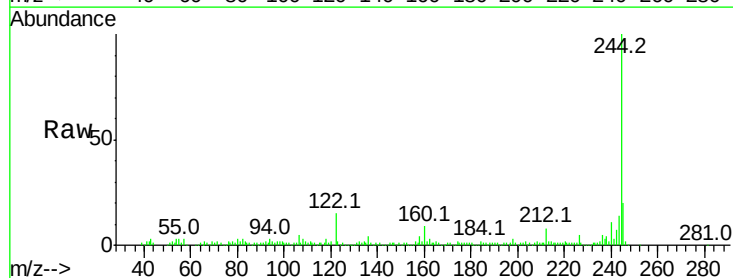
Tgt Ion:244 Resp: 148972

Ion Ratio Lower Upper

244 100

212 7.8 5.4 8.0

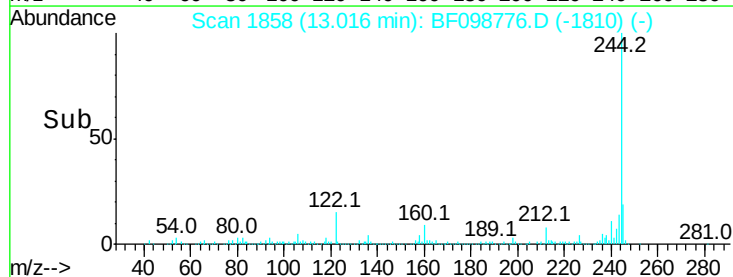
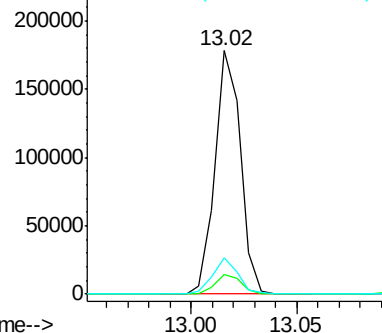
122 15.1 11.0 16.4

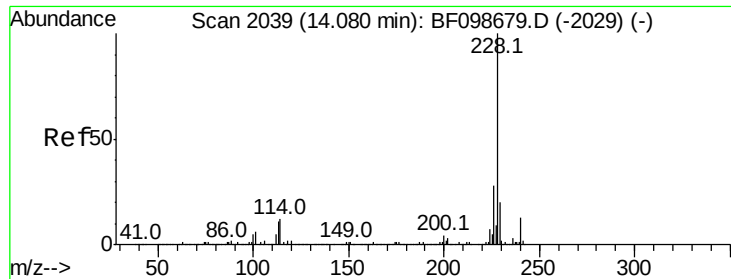


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

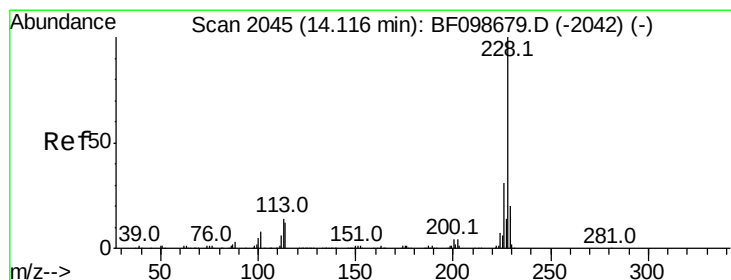
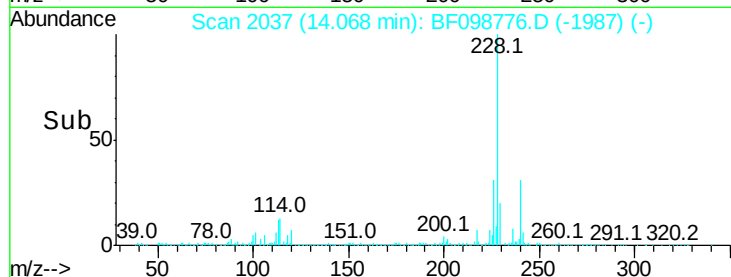
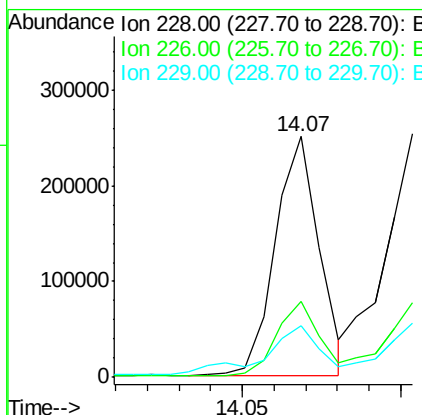
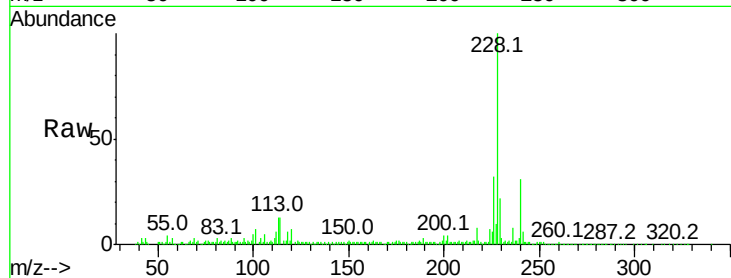




#80
Benzo(a)anthracene
Concen: 13.882 ng
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: BF098776.D
Acq: 25 Sep 2017 11:54

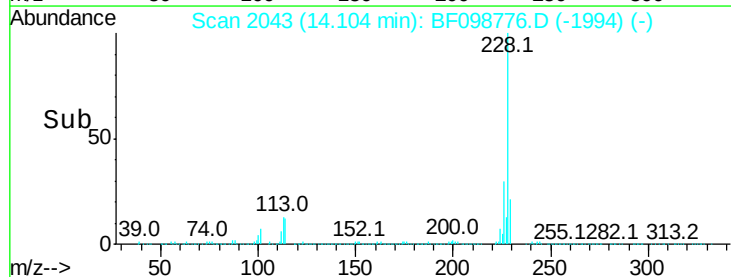
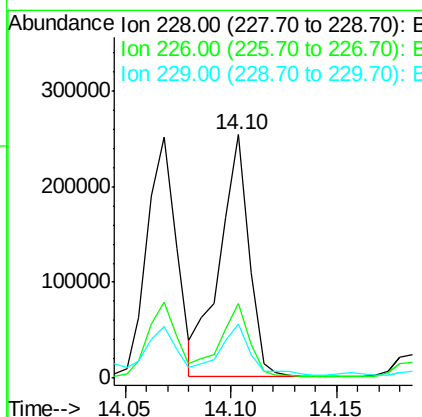
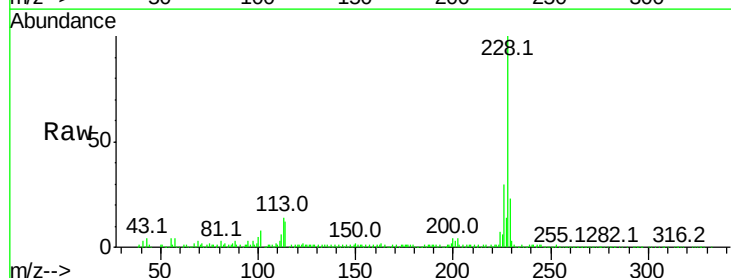
Instrument :
BNA_F
ClientSampleId :

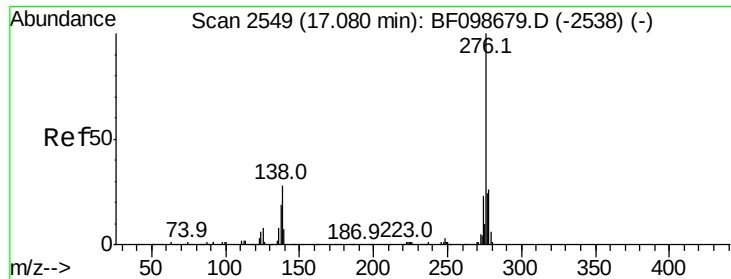
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.8	22.6	33.8
229	21.6	15.8	23.6



#82
Chrysene
Concen: 14.659 ng
RT: 14.10 min Scan# 2043
Delta R.T. -0.01 min
Lab File: BF098776.D
Acq: 25 Sep 2017 11:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.6
229	22.5	16.2	24.4

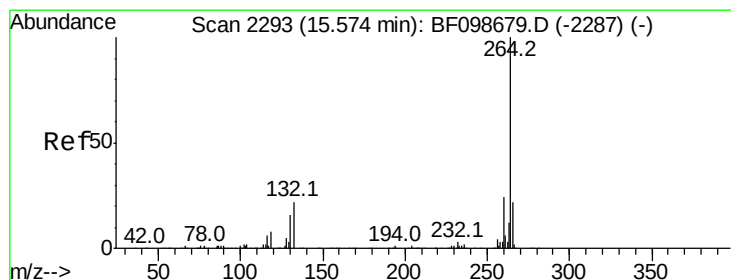
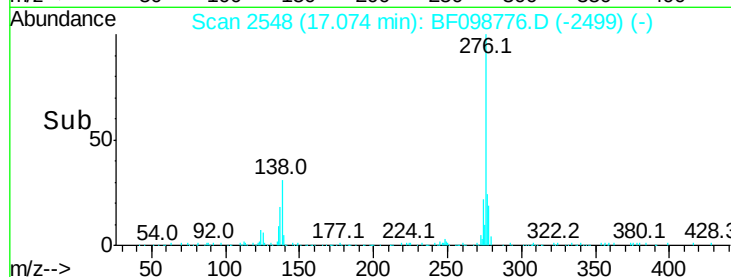
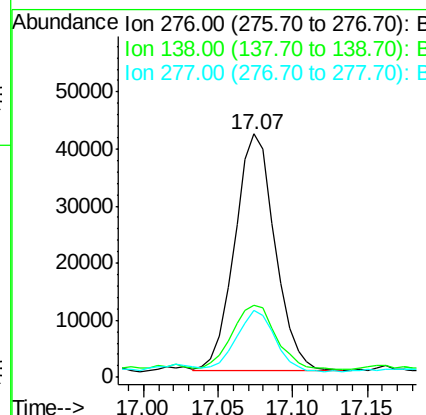
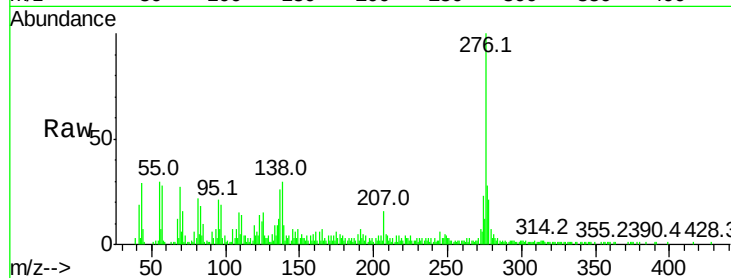




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.939 ng
 RT: 17.07 min Scan# 2548
 Delta R.T. -0.01 min
 Lab File: BF098776.D
 Acq: 25 Sep 2017 11:54

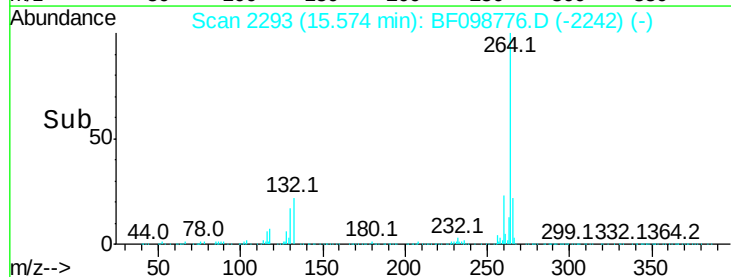
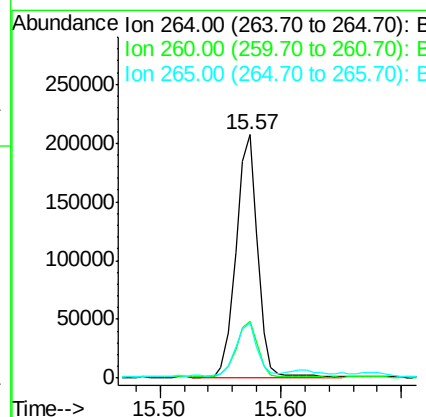
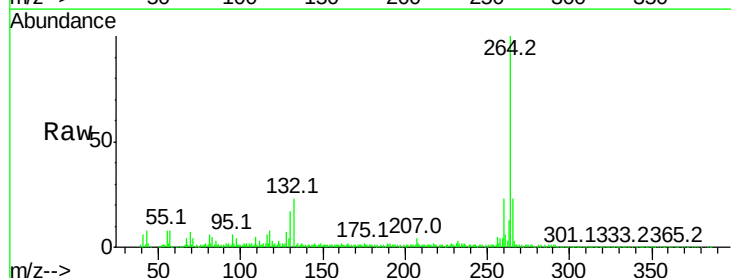
Instrument :
 BNA_F
 ClientSampled :

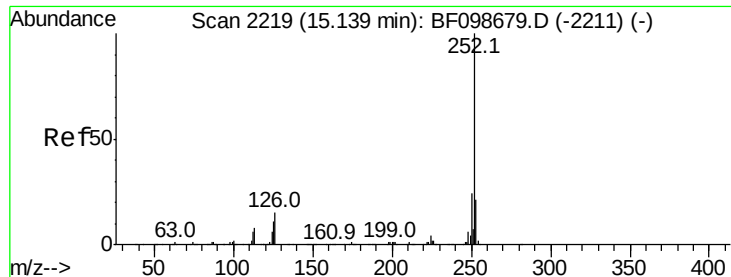
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.8	25.0	37.6
277	24.8	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.57 min Scan# 2293
 Delta R.T. -0.00 min
 Lab File: BF098776.D
 Acq: 25 Sep 2017 11:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.2	28.8
265	22.5	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 22.320 ng

RT: 15.13 min Scan# 2218

Delta R.T. -0.01 min

Lab File: BF098776.D

Acq: 25 Sep 2017 11:54

Instrument :

BNA_F

ClientSampleId :

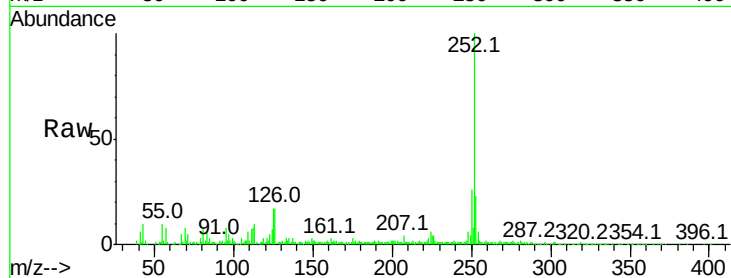
Tot Ion:252 Resp: 351381

Ion Ratio Lower Upper

252 100

253 23.1 17.0 25.6

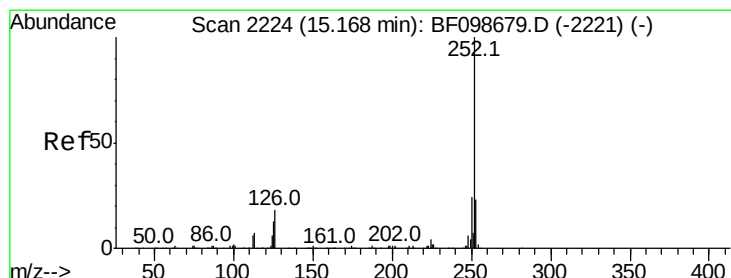
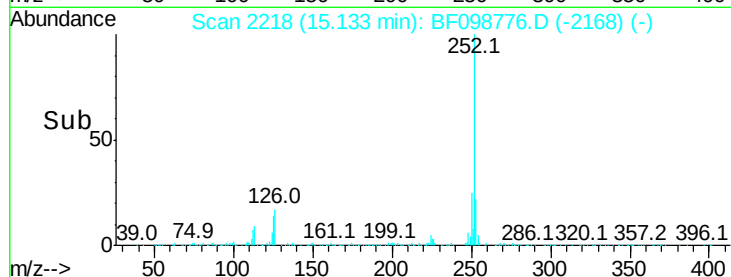
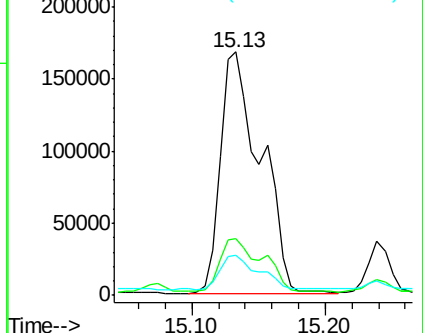
125 16.6 9.0 13.6#



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



#88

Benzo(k)fluoranthene

Concen: 22.598 ng

RT: 15.13 min Scan# 2218

Delta R.T. -0.04 min

Lab File: BF098776.D

Acq: 25 Sep 2017 11:54

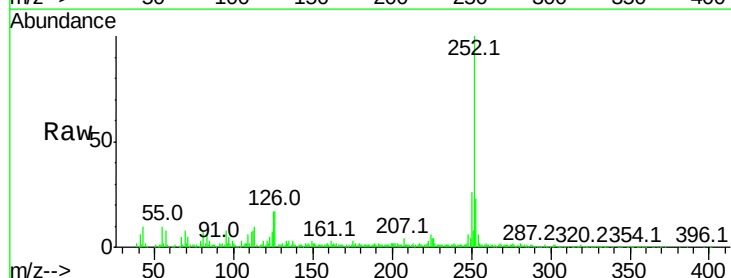
Tgt Ion:252 Resp: 351381

Ion Ratio Lower Upper

252 100

253 23.1 17.9 26.9

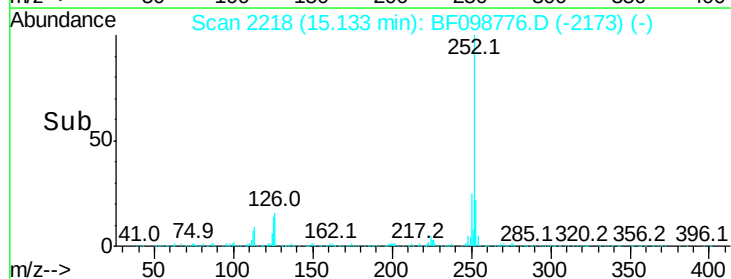
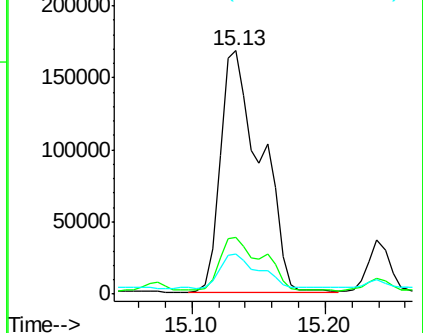
125 16.6 10.2 15.2#

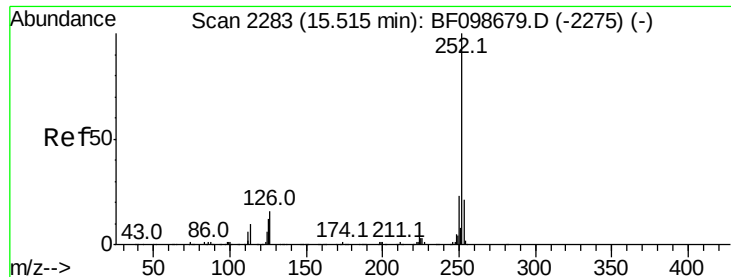


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

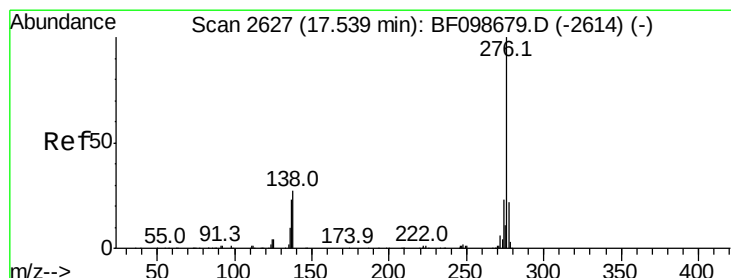
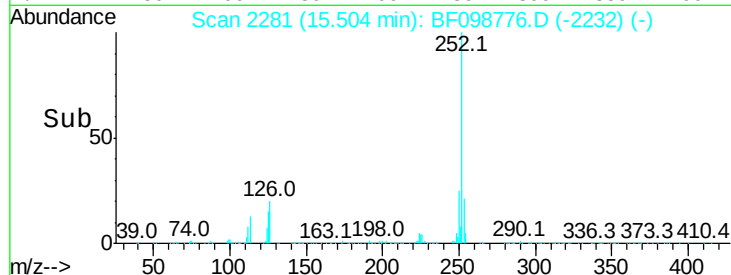
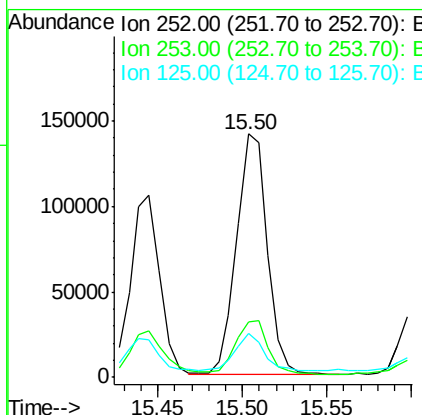
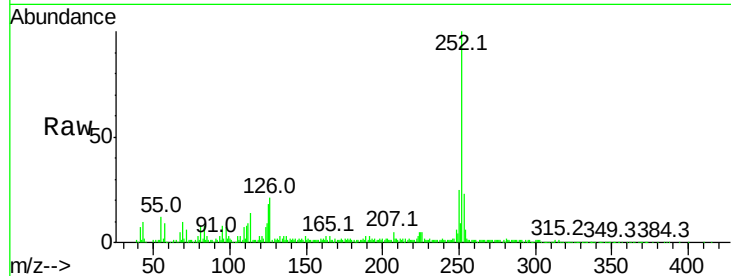




#89
Benzo(a)pyrene
Concen: 12.461 ng
RT: 15.50 min Scan# 2281
Delta R.T. -0.01 min
Lab File: BF098776.D
Acq: 25 Sep 2017 11:54

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 180072
Ion Ratio Lower Upper
252 100
253 23.0 17.1 25.7
125 17.9 9.8 14.6#



#91
Benzo(g,h,i)perylene
Concen: 6.723 ng
RT: 17.53 min Scan# 2626
Delta R.T. -0.01 min
Lab File: BF098776.D
Acq: 25 Sep 2017 11:54

Tgt Ion:276 Resp: 76852
Ion Ratio Lower Upper
276 100
277 23.9 17.9 26.9
138 31.4 21.8 32.8

