

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041415\
 Data File : BF078524.D
 Acq On : 15 Apr 2015 3:11
 Operator : TP/IZ
 Sample : G1850-03 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FD-1-20150409

Quant Time: Apr 15 04:57:58 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 15 01:10:59 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	19888	20.00	ng	0.00
21) Naphthalene-d8	8.39	136	85154	20.00	ng	0.00
38) Acenaphthene-d10	10.54	164	44429	20.00	ng	0.00
63) Phenanthrene-d10	12.37	188	96109	20.00	ng	0.00
75) Chrysene-d12	15.62	240	109832	20.00	ng	-0.03
86) Perylene-d12	17.27	264	119611	20.00	ng	-0.22

System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	69039	57.24	ng	0.00
7) Phenol-d6	6.41	99	94204	62.32	ng	0.00
23) Nitrobenzene-d5	7.51	82	52812	37.59	ng	0.00
41) 2,4,6-Tribromophenol	11.52	330	26694	72.44	ng	0.00
44) 2-Fluorobiphenyl	9.74	172	120261	38.69	ng	0.00
78) Terphenyl-d14	14.35	244	149683	30.80	ng	0.00

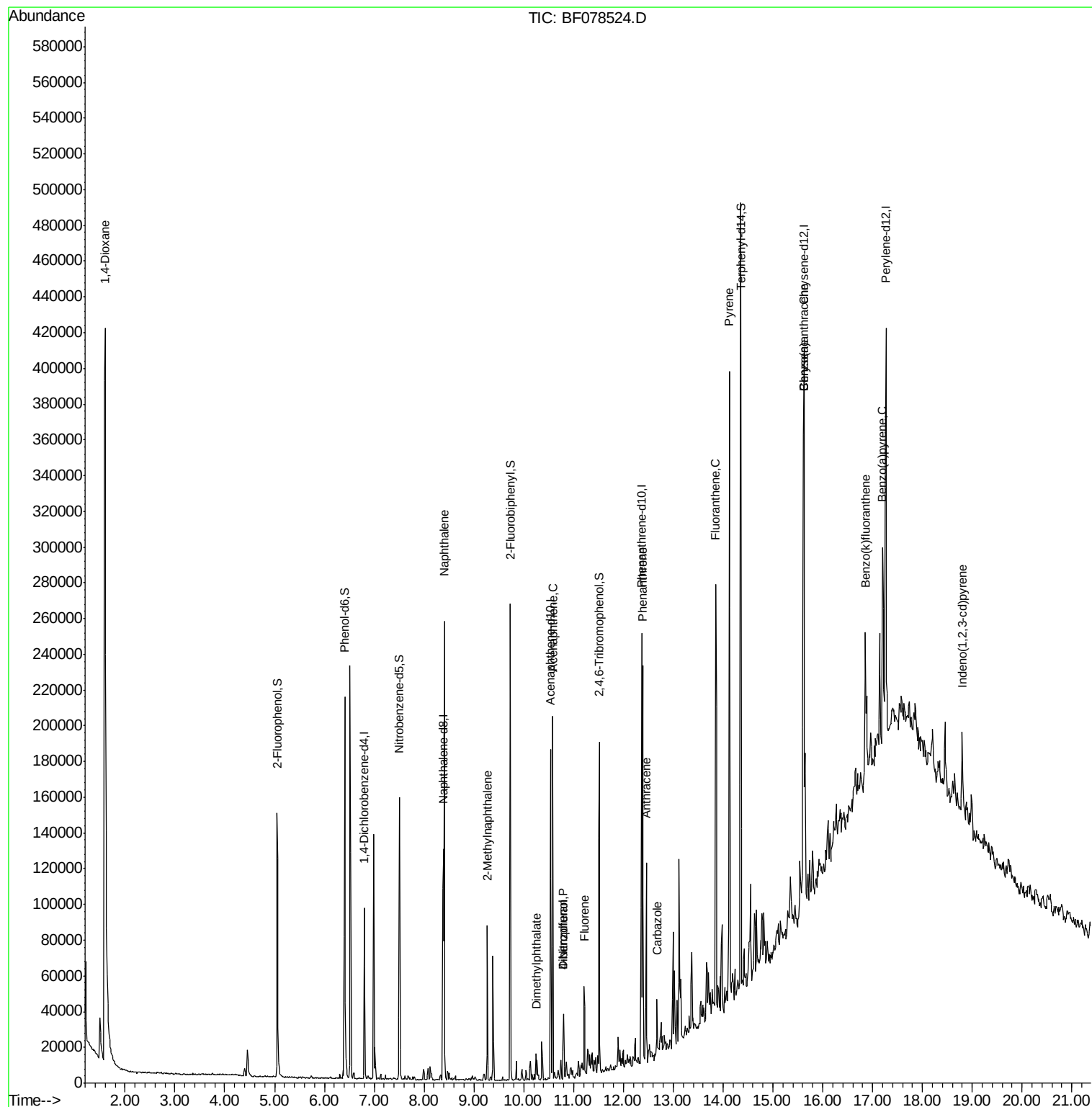
Target Compounds						Qvalue
2) 1,4-Dioxane	1.60	88	22312	40.91	ng	# 23
31) Naphthalene	8.41	128	122504	27.64	ng	99
37) 2-Methylnaphthalene	9.27	142	24221	8.05	ng	99
49) Dimethylphthalate	10.25	163	10469	3.14	ng	# 96
51) Acenaphthene	10.58	154	49658	19.10	ng	98
54) Dibenzofuran	10.80	168	16786	4.23	ng	94
55) 4-Nitrophenol	10.80	139	6238	13.24	ng	# 18
57) Fluorene	11.21	166	21977	6.83	ng	98
70) Phenanthrene	12.39	178	95925	17.25	ng	99
71) Anthracene	12.46	178	44690	8.16	ng	98
72) Carbazole	12.67	167	13174	2.57	ng	95
74) Fluoranthene	13.85	202	130930	22.33	ng	97
77) Pyrene	14.13	202	180019	26.11	ng	96
80) Benzo(a)anthracene	15.61	228	71622	10.96	ng	# 89
82) Chrysene	15.61	228	70995	11.56	ng	93
85) Indeno(1,2,3-cd)pyrene	18.80	276	27379	3.93	ng	# 91
88) Benzo(k)fluoranthene	16.86	252	63352	9.64	ng	96
89) Benzo(a)pyrene	17.20	252	53521	8.30	ng	# 88

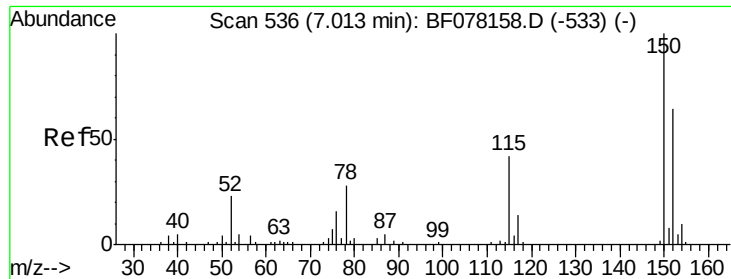
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 491

Delta R.T. -0.00 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

Instrument :

BNA_F

ClientSampleId :

FD-1-20150409

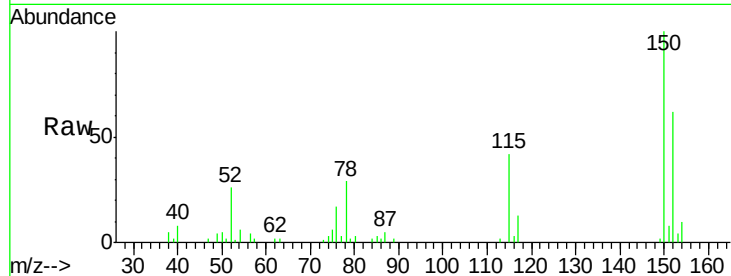
Tgt Ion:152 Resp: 19888

Ion Ratio Lower Upper

152 100

150 161.3 125.9 188.9

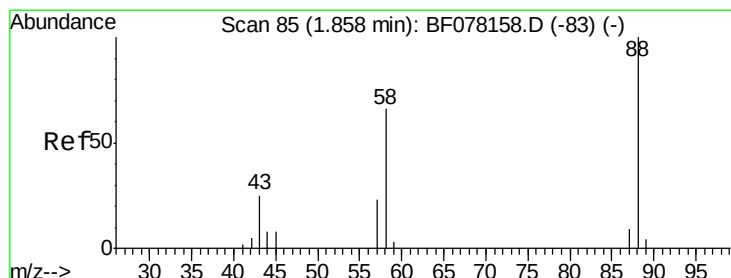
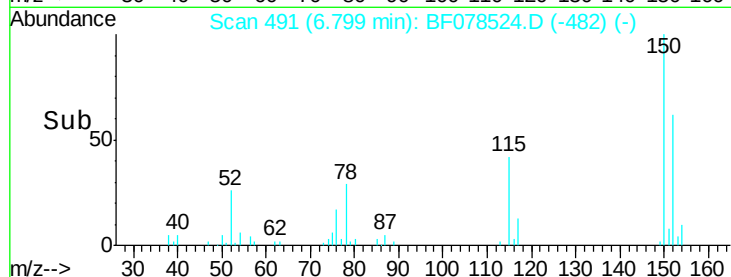
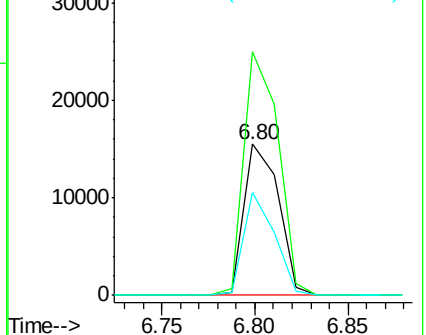
115 67.9 52.7 79.1



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



#2

1,4-Dioxane

Concen: 40.91 ng

RT: 1.60 min Scan# 36

Delta R.T. 0.01 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

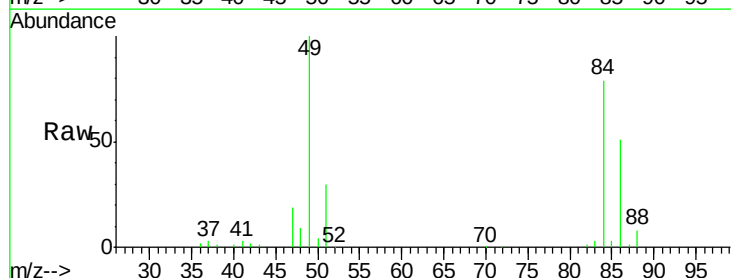
Tgt Ion: 88 Resp: 22312

Ion Ratio Lower Upper

88 100

58 0.0 56.9 85.3#

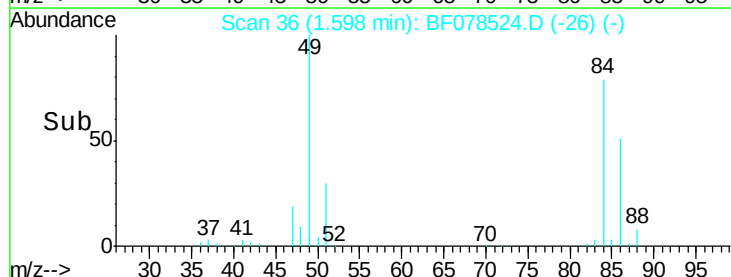
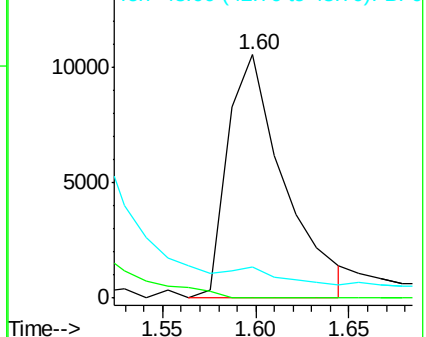
43 0.0 21.4 32.2#

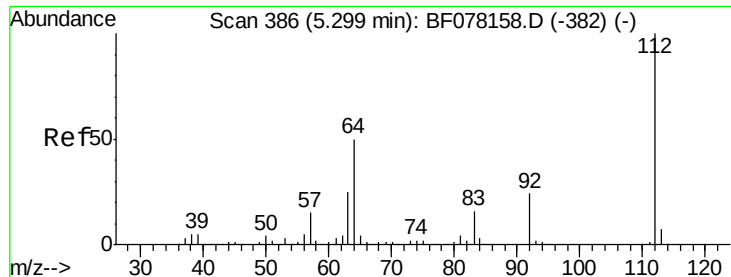


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 57.24 ng

RT: 5.05 min Scan# 338

Delta R.T. -0.00 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

Instrument :

BNA_F

ClientSampleId :

FD-1-20150409

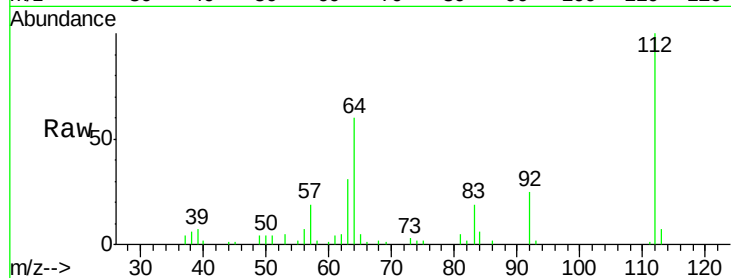
Tgt Ion: 112 Resp: 69039

Ion Ratio Lower Upper

112 100

64 60.5 39.9 59.9#

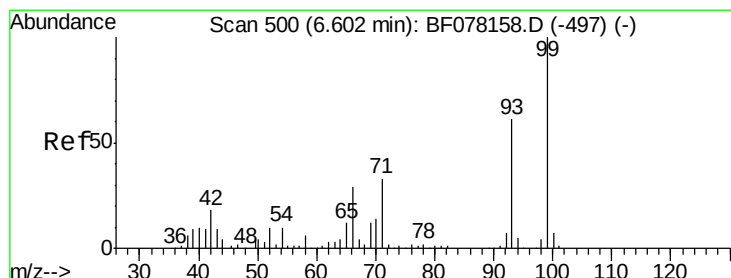
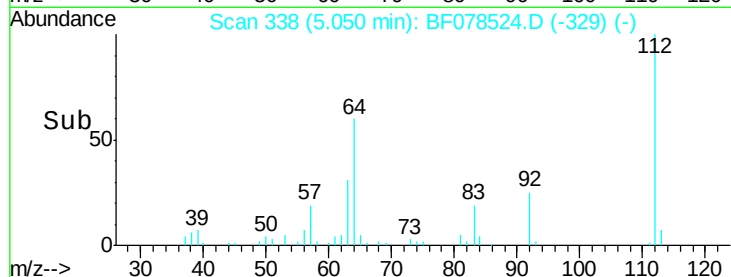
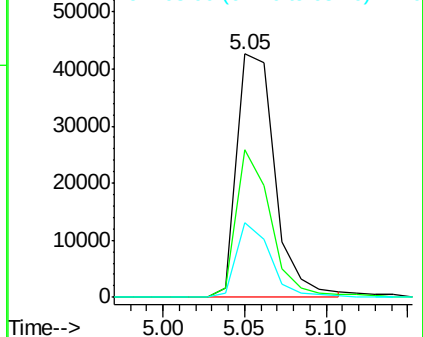
63 30.9 20.2 30.4#



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: 62.32 ng

RT: 6.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

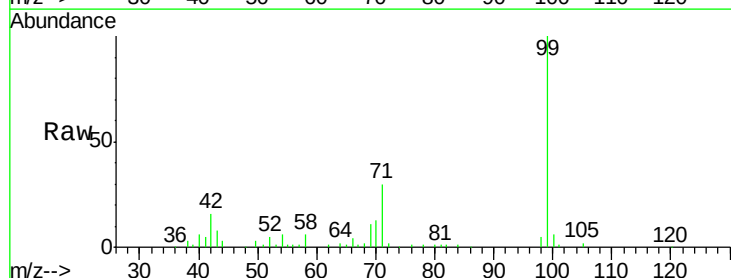
Tgt Ion: 99 Resp: 94204

Ion Ratio Lower Upper

99 100

42 15.6 14.8 22.2

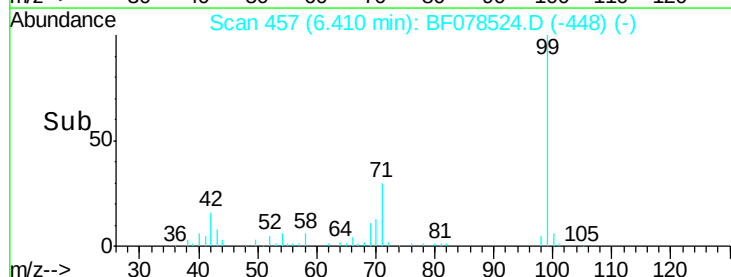
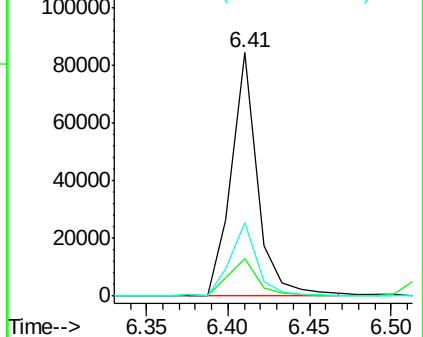
71 30.2 26.6 39.8

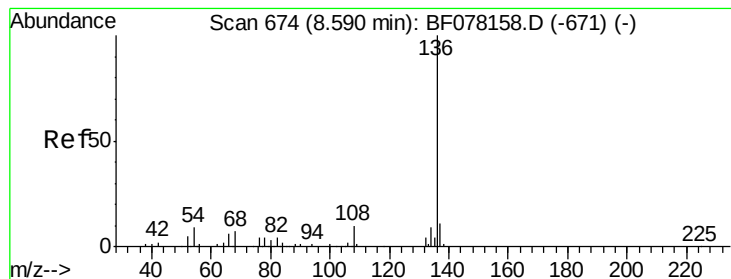


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.39 min Scan# 630

Delta R.T. -0.00 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

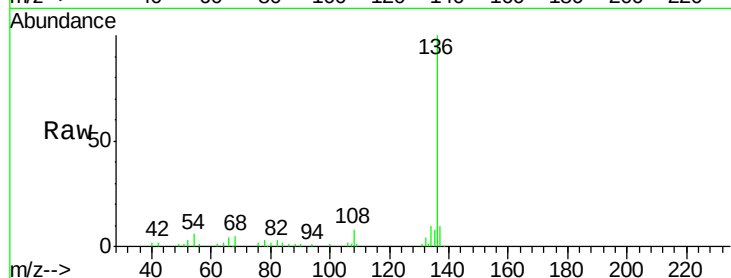
Instrument :

BNA_F

ClientSampleId :

FD-1-20150409

Tgt Ion:	136	Resp:	85154
Ion Ratio	Lower	Upper	
136	100		
137	10.3	9.0	13.4
54	5.5	7.0	10.6#
68	4.5	5.4	8.2#

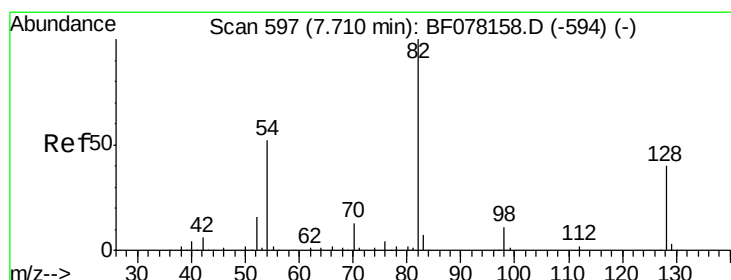
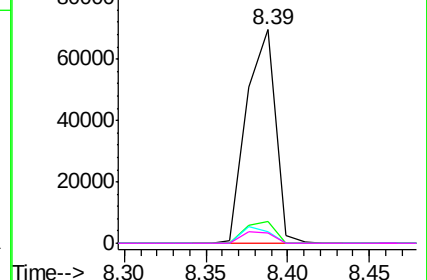
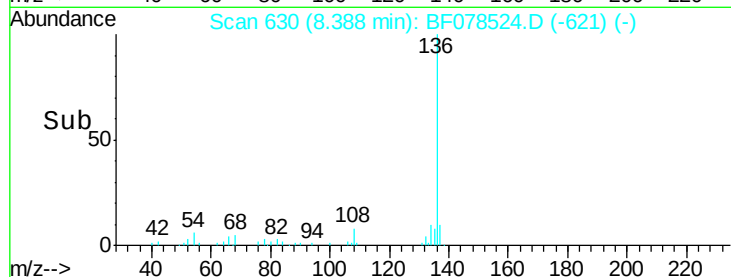


Abundance Ion 136.00 (135.70 to 136.70): E

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: 37.59 ng

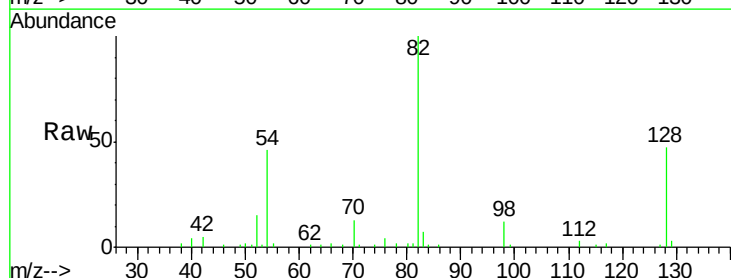
RT: 7.51 min Scan# 553

Delta R.T. -0.00 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

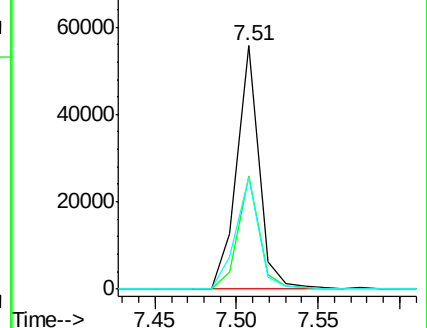
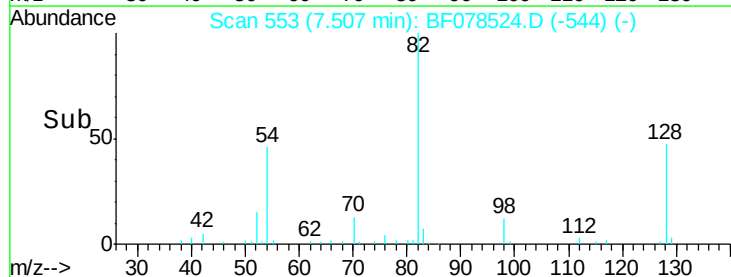
Tgt Ion:	82	Resp:	52812
Ion Ratio	Lower	Upper	
82	100		
128	46.6	31.8	47.8
54	46.1	41.5	62.3

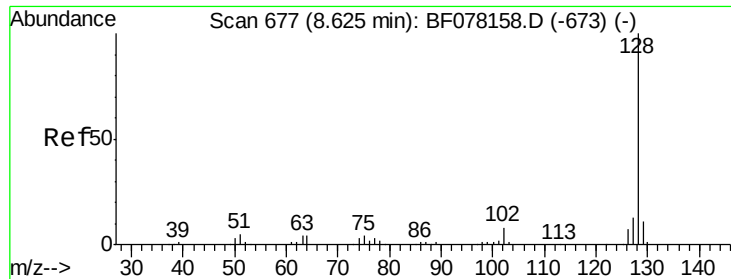


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

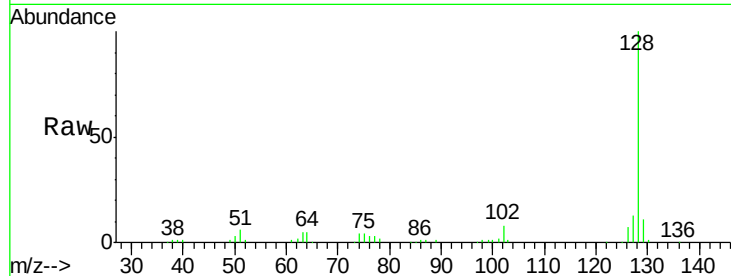




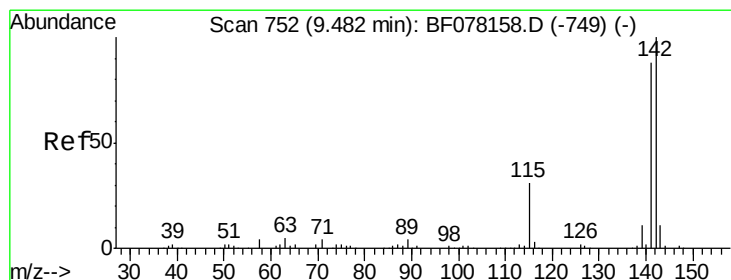
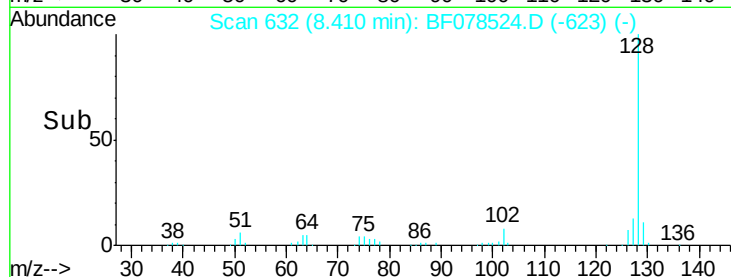
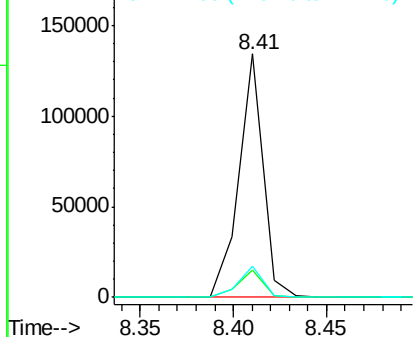
#31
Naphthalene
Concen: 27.64 ng
RT: 8.41 min Scan# 632
Delta R.T. -0.00 min
Lab File: BF078524.D
Acq: 15 Apr 2015 3:11

Instrument :
BNA_F
ClientSampleId :
FD-1-20150409

Tgt Ion:128 Resp: 122504
Ion Ratio Lower Upper
128 100
129 11.0 8.6 12.8
127 12.8 10.7 16.1

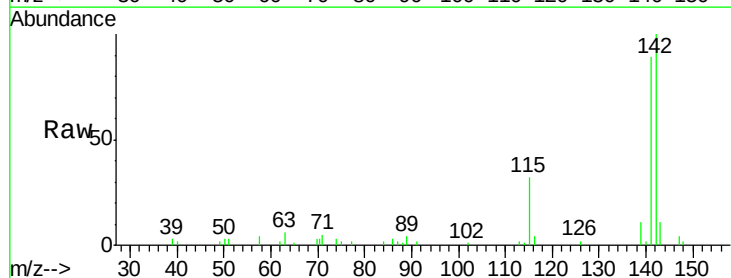


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

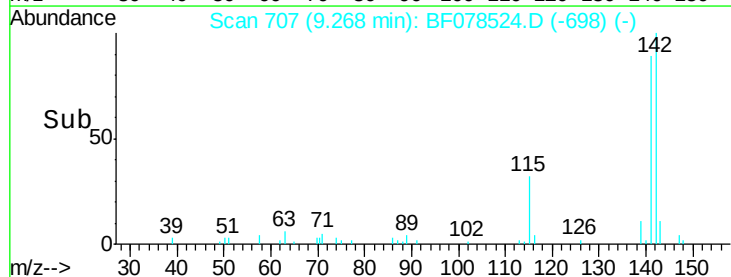
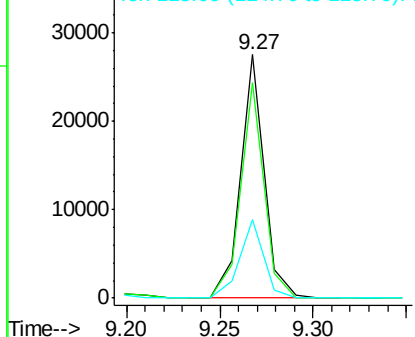


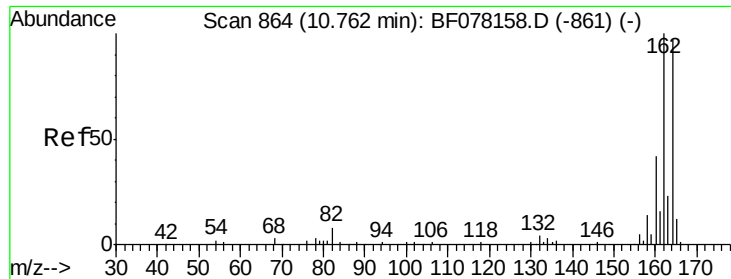
#37
2-Methylnaphthalene
Concen: 8.05 ng
RT: 9.27 min Scan# 707
Delta R.T. -0.00 min
Lab File: BF078524.D
Acq: 15 Apr 2015 3:11

Tgt Ion:142 Resp: 24221
Ion Ratio Lower Upper
142 100
141 88.7 70.3 105.5
115 32.3 24.6 37.0



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

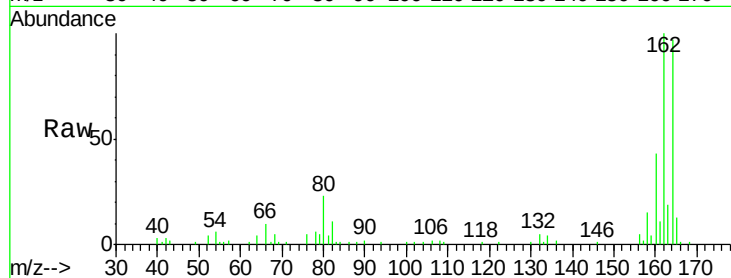




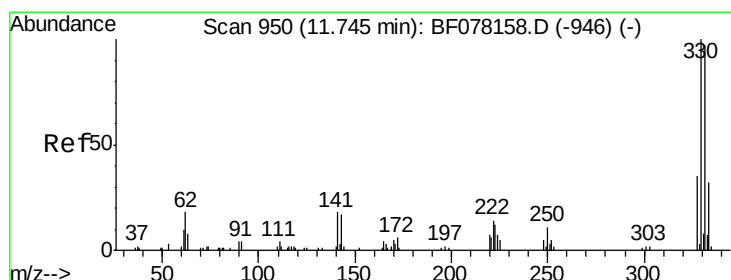
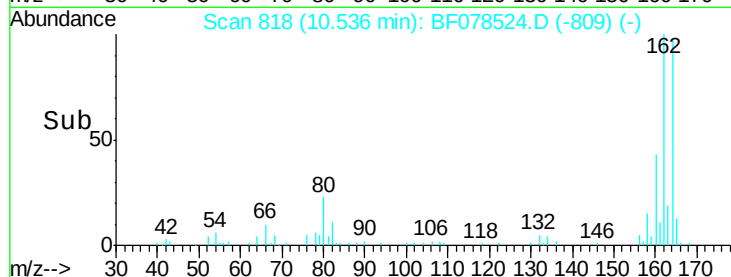
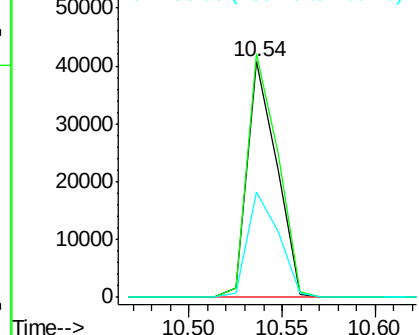
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.54 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BF078524.D
 Acq: 15 Apr 2015 3:11

Instrument :
 BNA_F
 ClientSampleId :
 FD-1-20150409

Tgt Ion:164 Resp: 44429
 Ion Ratio Lower Upper
 164 100
 162 103.5 82.2 123.2
 160 44.7 34.7 52.1

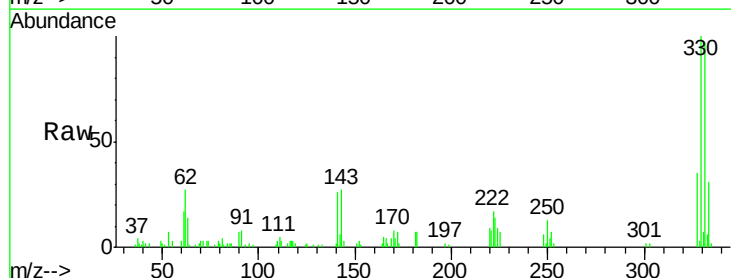


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

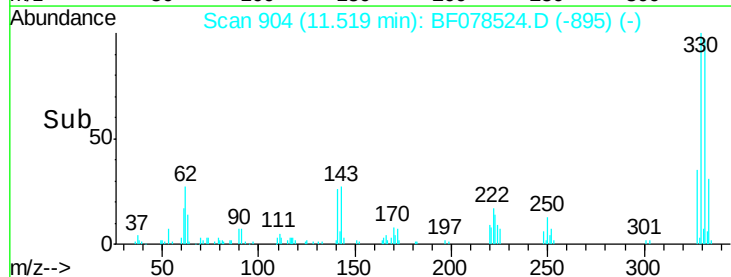
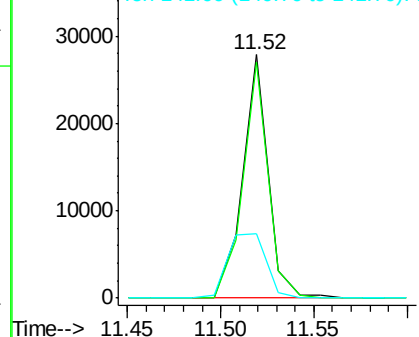


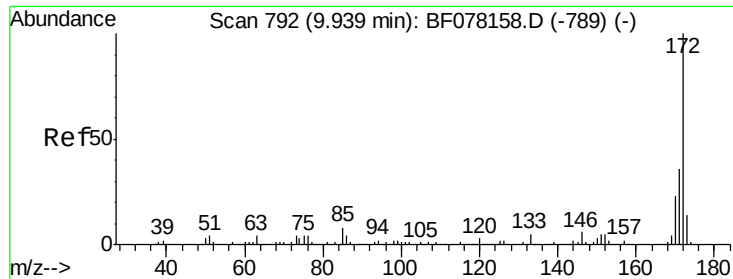
#41
 2,4,6-Tribromophenol
 Concen: 72.44 ng
 RT: 11.52 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BF078524.D
 Acq: 15 Apr 2015 3:11

Tgt Ion:330 Resp: 26694
 Ion Ratio Lower Upper
 330 100
 332 95.5 78.6 117.8
 141 39.9 31.2 46.8



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

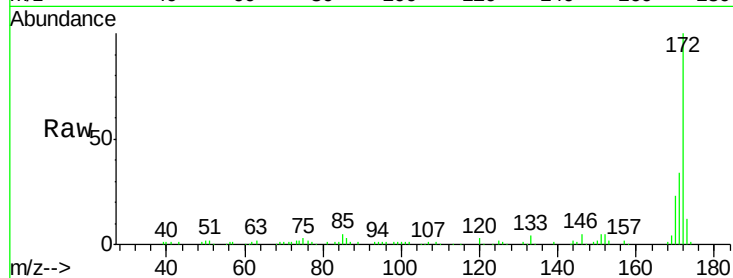




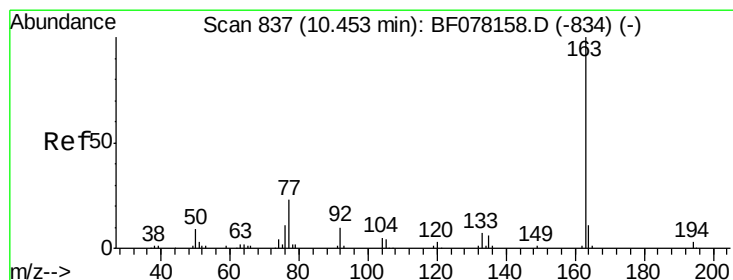
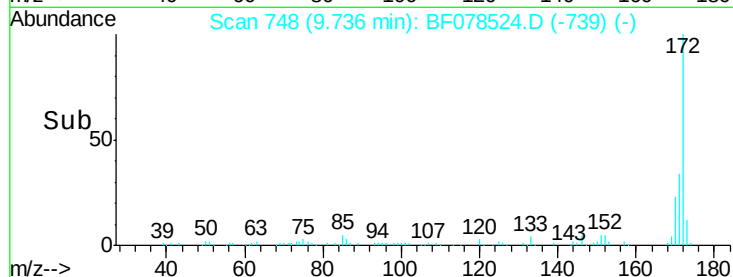
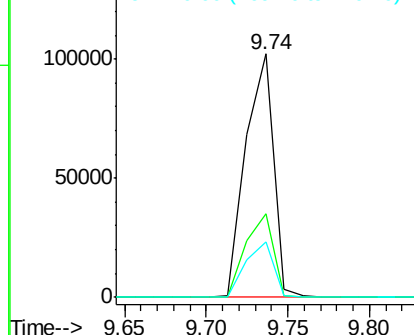
#44
2-Fluorobiphenyl
Concen: 38.69 ng
RT: 9.74 min Scan# 748
Delta R.T. -0.00 min
Lab File: BF078524.D
Acq: 15 Apr 2015 3:11

Instrument :
BNA_F
ClientSampleId :
FD-1-20150409

Tgt Ion:172 Resp: 120261
Ion Ratio Lower Upper
172 100
171 34.3 28.6 42.8
170 22.6 18.5 27.7

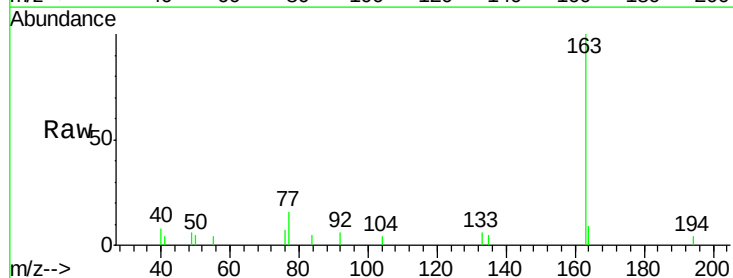


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

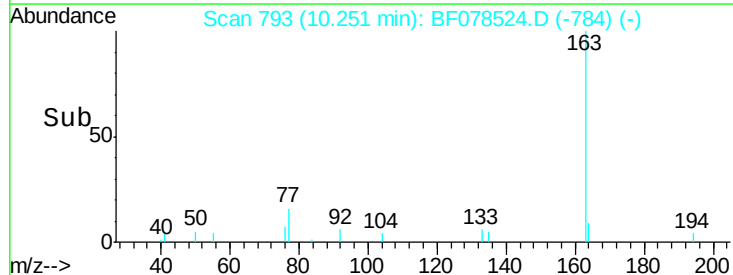
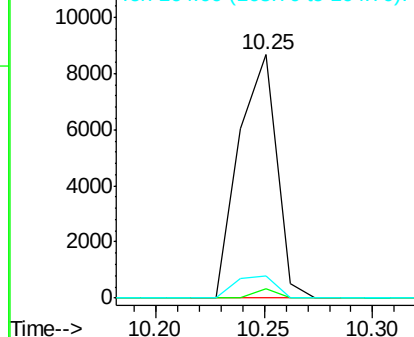


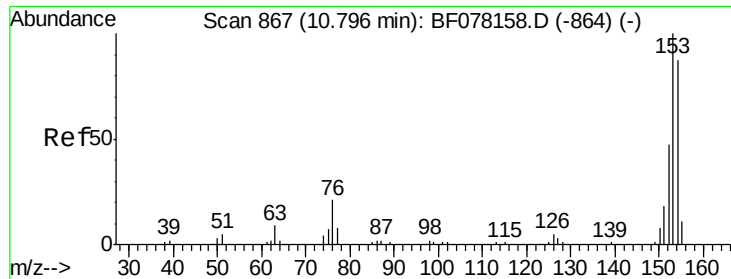
#49
Dimethylphthalate
Concen: 3.14 ng
RT: 10.25 min Scan# 793
Delta R.T. -0.00 min
Lab File: BF078524.D
Acq: 15 Apr 2015 3:11

Tgt Ion:163 Resp: 10469
Ion Ratio Lower Upper
163 100
194 3.8 2.3 3.5#
164 9.1 8.6 13.0



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 19.10 ng

RT: 10.58 min Scan# 822

Delta R.T. -0.00 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

Instrument :

BNA_F

ClientSampleId :

FD-1-20150409

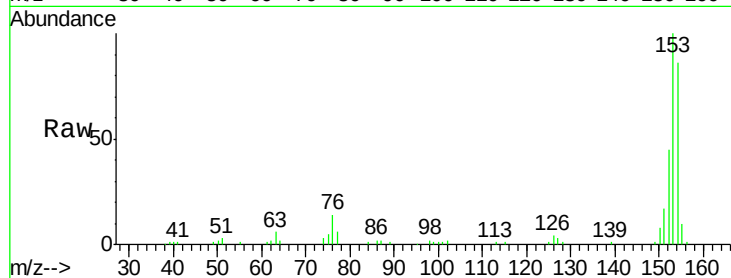
Tgt Ion:154 Resp: 49658

Ion Ratio Lower Upper

154 100

153 116.4 91.4 137.2

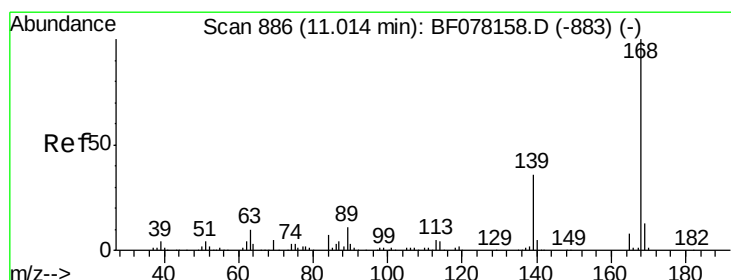
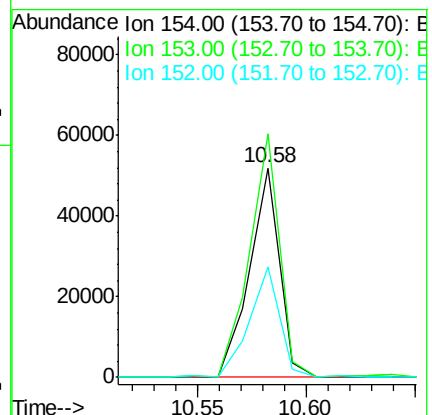
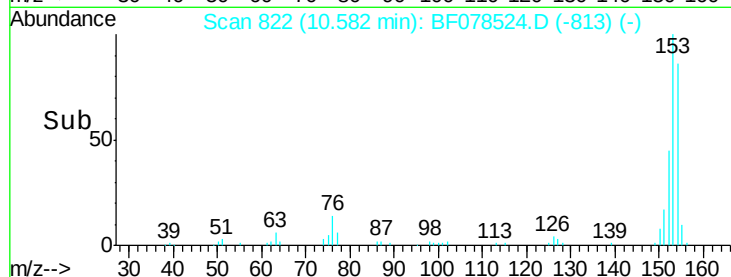
152 52.5 43.0 64.6



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: 4.23 ng

RT: 10.80 min Scan# 841

Delta R.T. -0.00 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

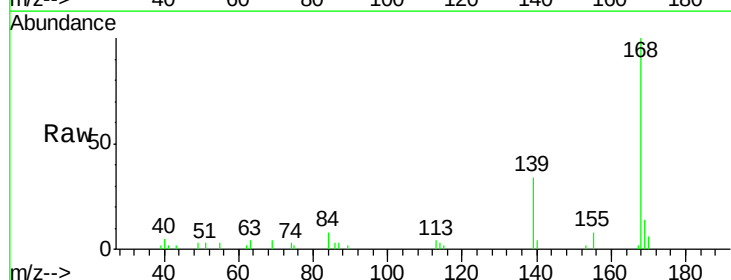
Tgt Ion:168 Resp: 16786

Ion Ratio Lower Upper

168 100

139 33.6 31.0 46.4

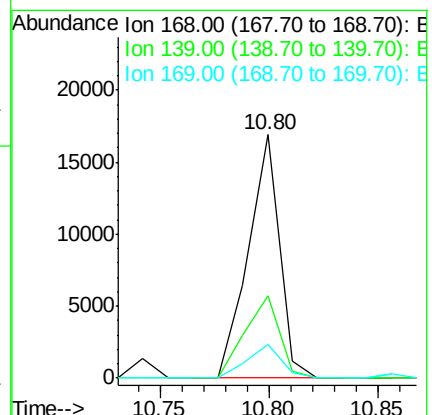
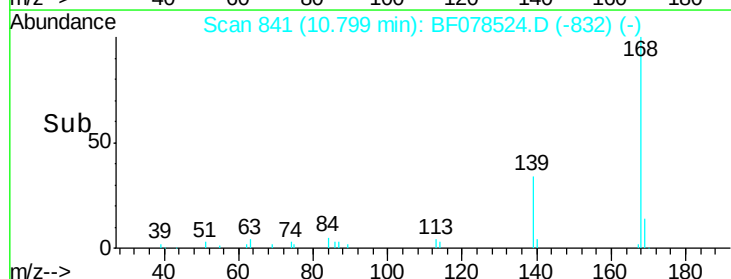
169 13.6 10.7 16.1

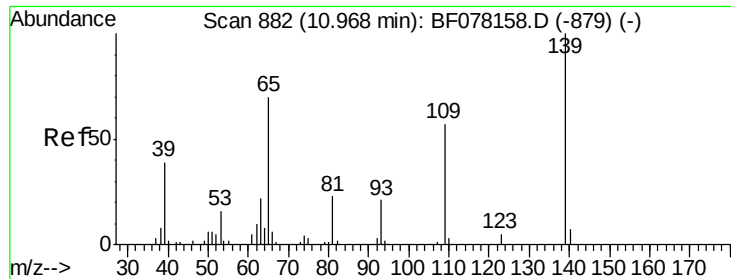


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 13.24 ng

RT: 10.80 min Scan# 841

Delta R.T. 0.03 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

Instrument :

BNA_F

ClientSampleId :

FD-1-20150409

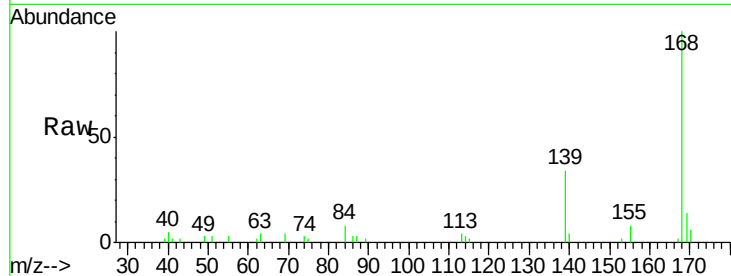
Tgt Ion:139 Resp: 6238

Ion Ratio Lower Upper

139 100

109 0.0 36.7 76.7#

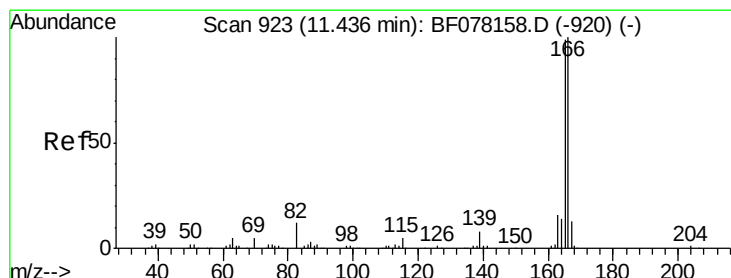
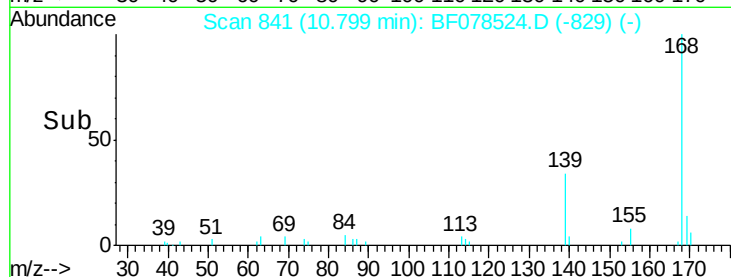
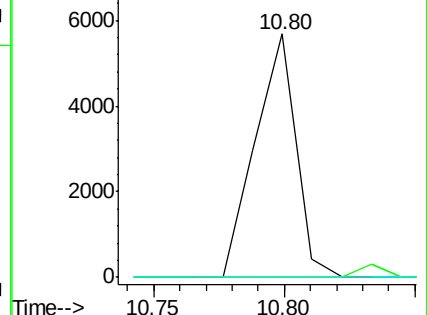
65 0.0 49.9 89.9#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): E



#57

Fluorene

Concen: 6.83 ng

RT: 11.21 min Scan# 877

Delta R.T. -0.01 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

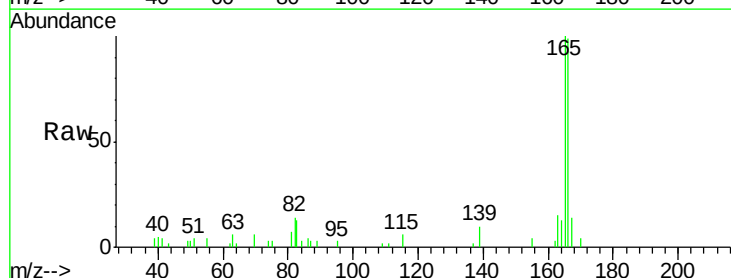
Tgt Ion:166 Resp: 21977

Ion Ratio Lower Upper

166 100

165 101.2 78.9 118.3

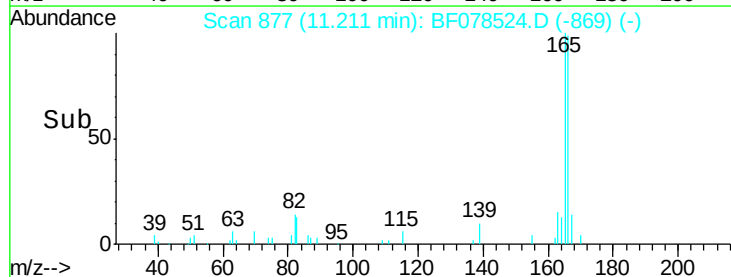
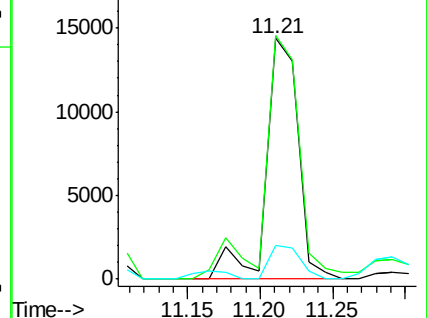
167 13.8 10.7 16.1

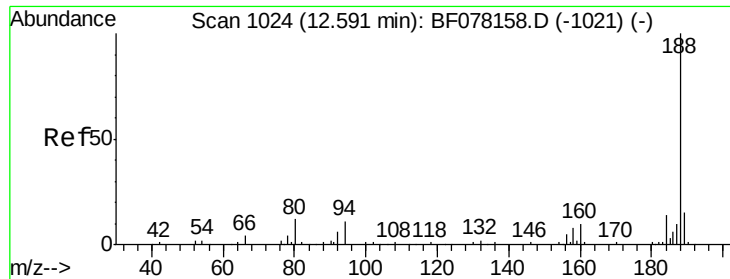


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

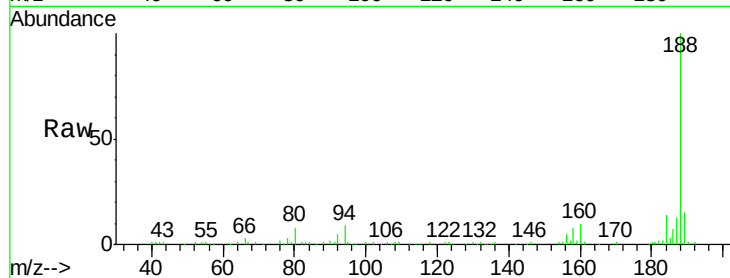




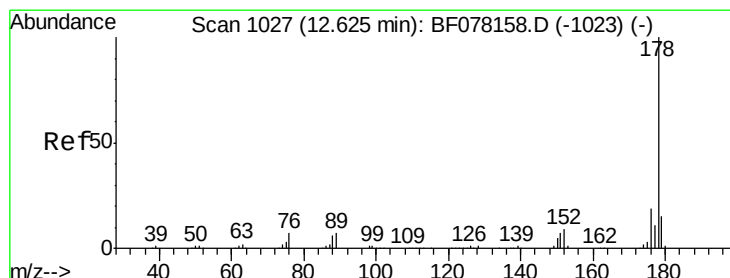
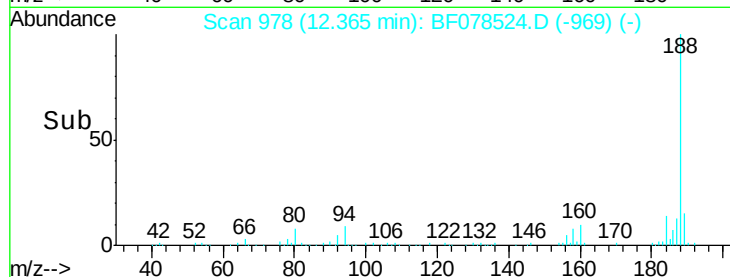
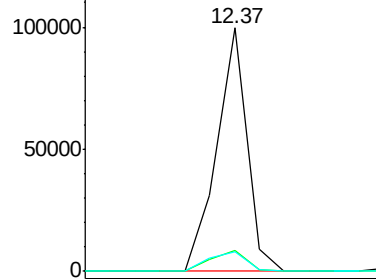
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.37 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: BF078524.D
 Acq: 15 Apr 2015 3:11

Instrument :
 BNA_F
 ClientSampleId :
 FD-1-20150409

Tgt Ion:188 Resp: 96109
 Ion Ratio Lower Upper
 188 100
 94 8.7 9.0 13.4#
 80 8.2 9.5 14.3#

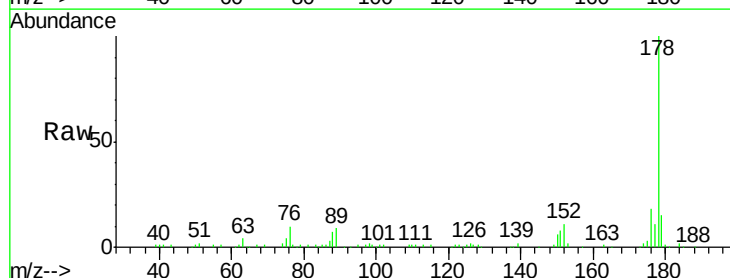


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

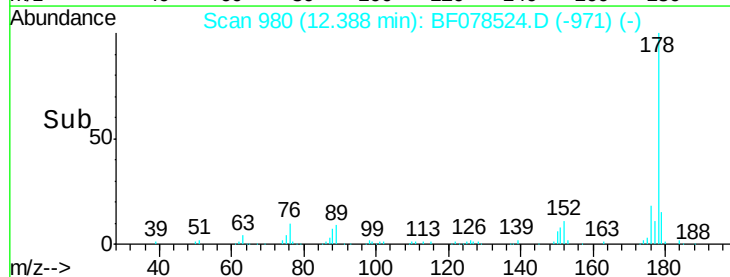
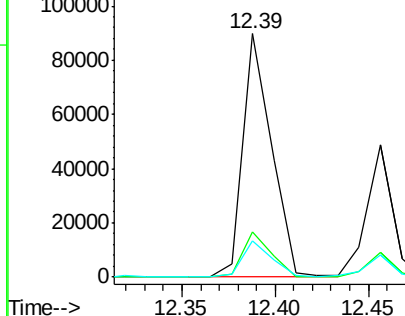


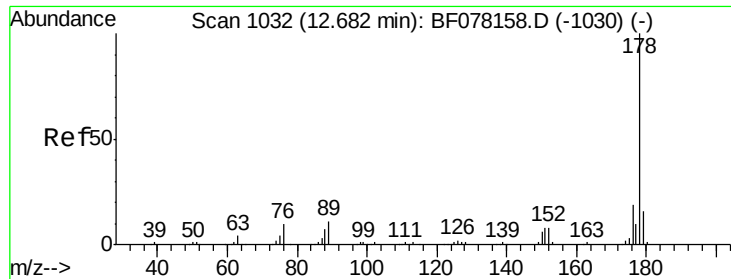
#70
 Phenanthrene
 Concen: 17.25 ng
 RT: 12.39 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: BF078524.D
 Acq: 15 Apr 2015 3:11

Tgt Ion:178 Resp: 95925
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.4 23.0
 179 15.0 12.2 18.2



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

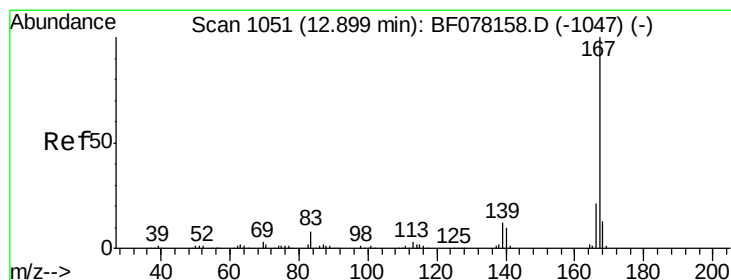
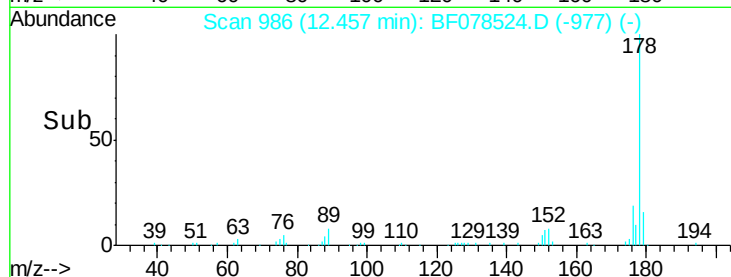
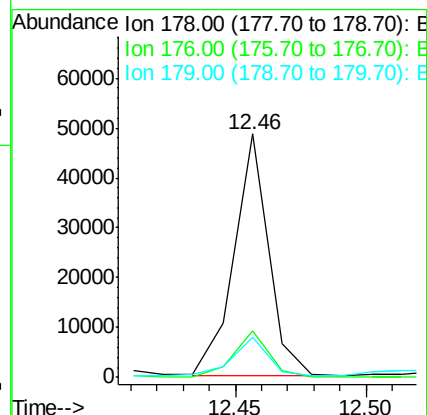
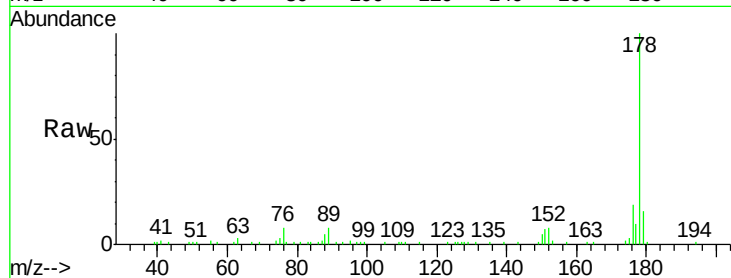




#71
 Anthracene
 Concen: 8.16 ng
 RT: 12.46 min Scan# 986
 Delta R.T. -0.00 min
 Lab File: BF078524.D
 Acq: 15 Apr 2015 3:11

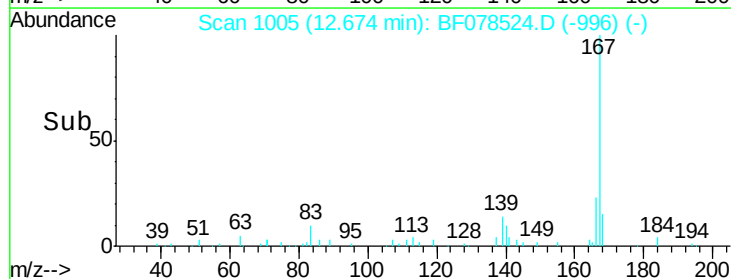
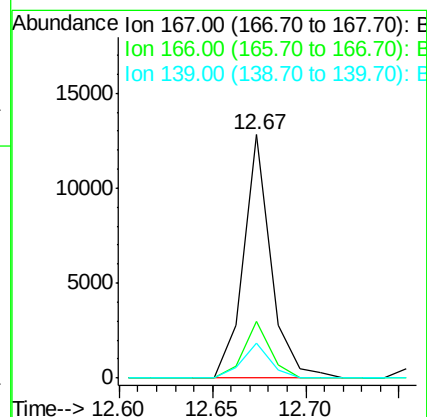
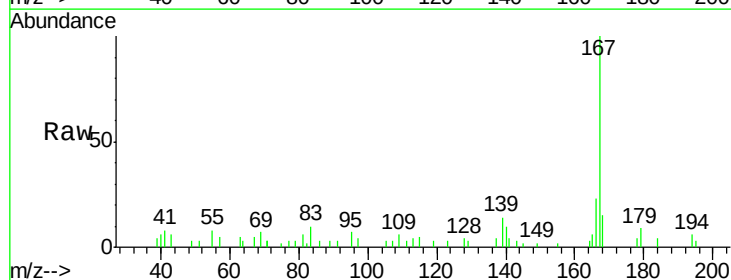
Instrument :
 BNA_F
 ClientSampleId :
 FD-1-20150409

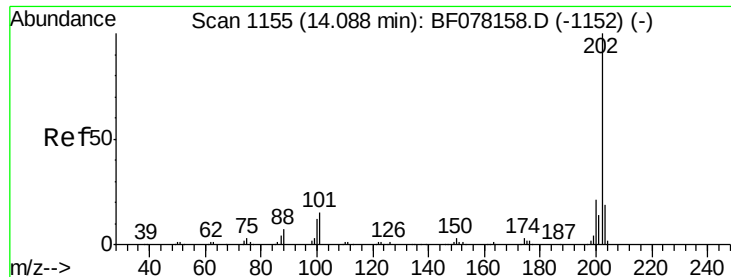
Tgt Ion:178 Resp: 44690
 Ion Ratio Lower Upper
 178 100
 176 19.1 14.8 22.2
 179 16.4 12.4 18.6



#72
 Carbazole
 Concen: 2.57 ng
 RT: 12.67 min Scan# 1005
 Delta R.T. -0.00 min
 Lab File: BF078524.D
 Acq: 15 Apr 2015 3:11

Tgt Ion:167 Resp: 13174
 Ion Ratio Lower Upper
 167 100
 166 23.2 16.8 25.2
 139 14.4 10.0 15.0





#74

Fluoranthene

Concen: 22.33 ng

RT: 13.85 min Scan# 1108

Delta R.T. -0.00 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

Instrument :

BNA_F

ClientSampleId :

FD-1-20150409

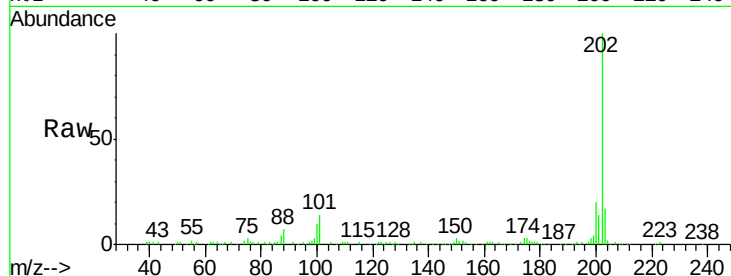
Tgt Ion:202 Resp: 130930

Ion Ratio Lower Upper

202 100

101 13.7 0.0 35.2

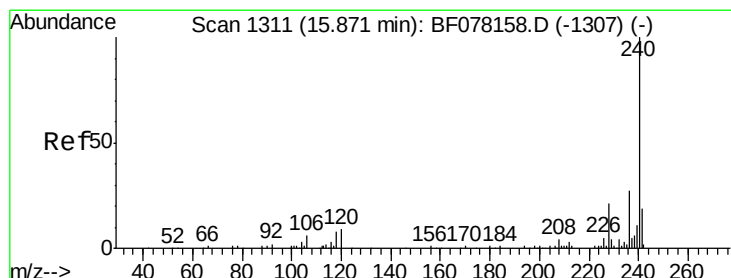
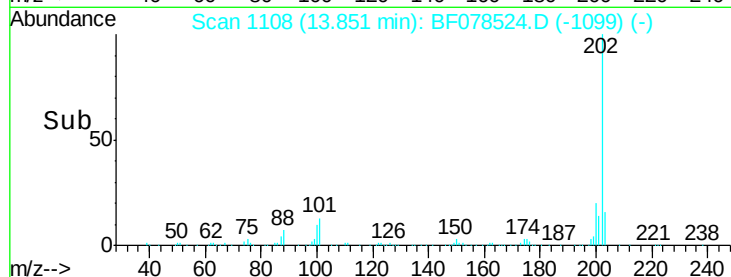
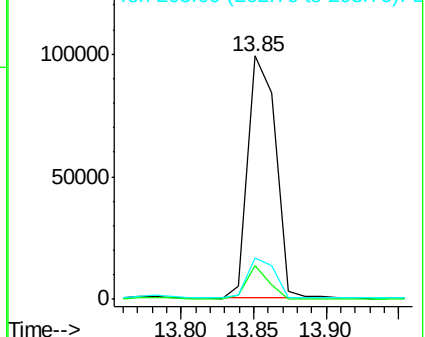
203 17.2 0.0 38.5



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: 20.00 ng

RT: 15.62 min Scan# 1263

Delta R.T. -0.03 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

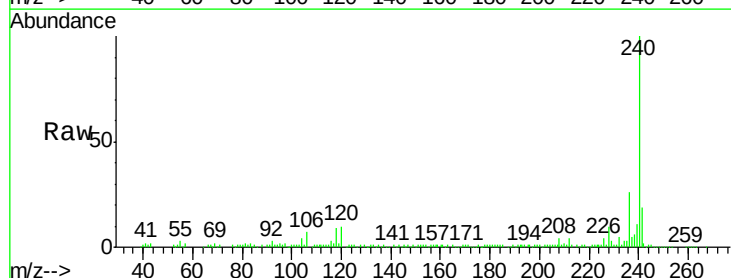
Tgt Ion:240 Resp: 109832

Ion Ratio Lower Upper

240 100

120 9.9 7.1 10.7

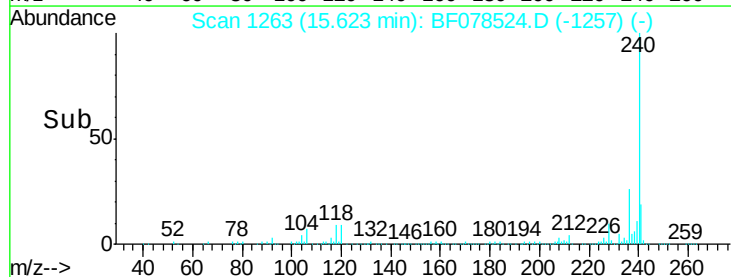
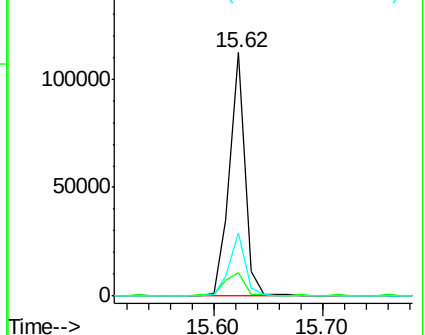
236 25.8 21.4 32.2

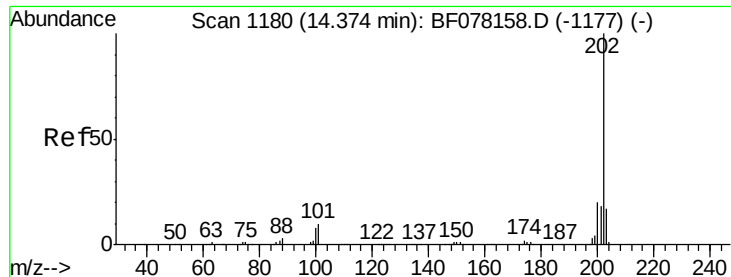


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

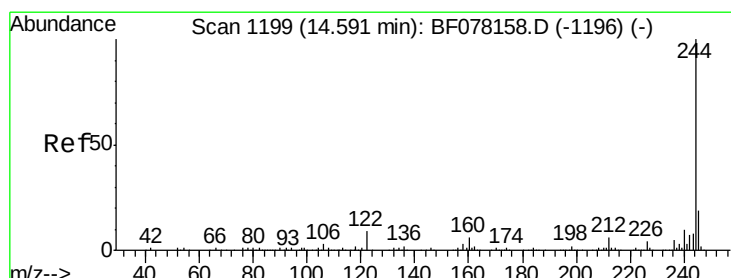
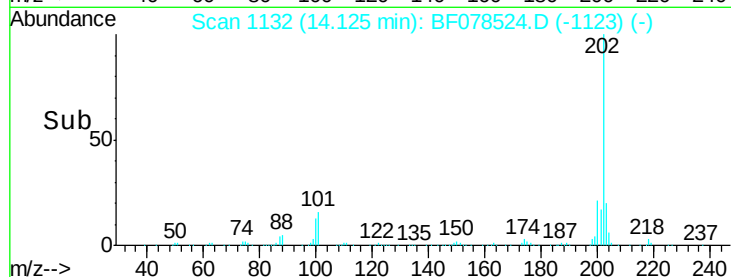
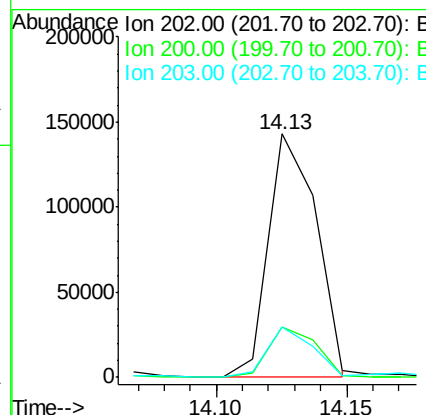
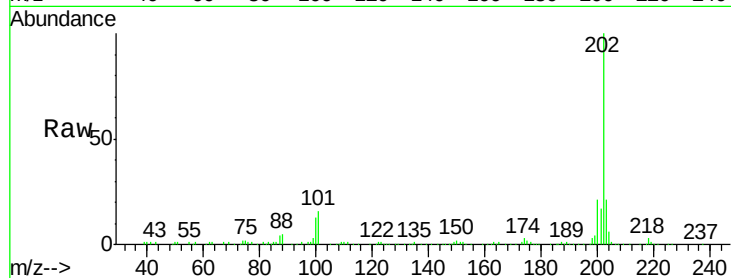




#77
 Pyrene
 Concen: 26.11 ng
 RT: 14.13 min Scan# 1132
 Delta R.T. -0.00 min
 Lab File: BF078524.D
 Acq: 15 Apr 2015 3:11

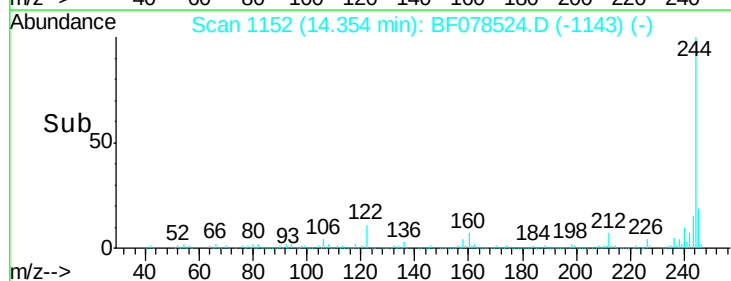
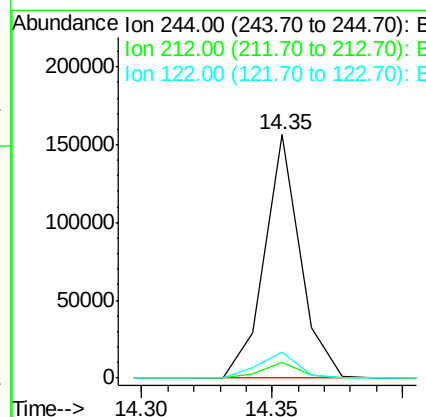
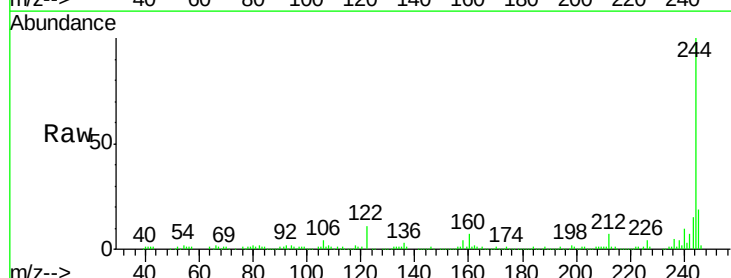
Instrument :
 BNA_F
 ClientSampleId :
 FD-1-20150409

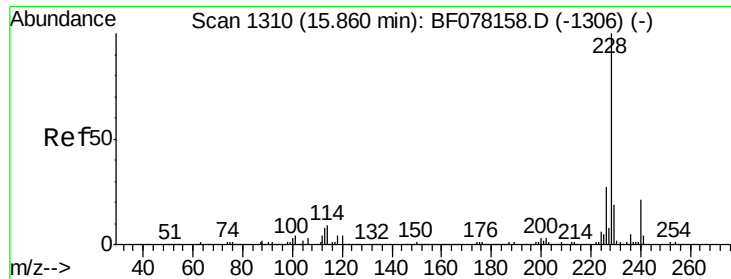
Tgt Ion:	202	Resp:	180019
Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.3	24.5
203	20.5	13.8	20.6



#78
 Terphenyl-d14
 Concen: 30.80 ng
 RT: 14.35 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: BF078524.D
 Acq: 15 Apr 2015 3:11

Tgt Ion:	244	Resp:	149683
Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.0	7.4
122	10.8	7.1	10.7#





#80

Benzo(a)anthracene

Concen: 10.96 ng

RT: 15.61 min Scan# 1262

Delta R.T. -0.03 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

Instrument :

BNA_F

ClientSampleId :

FD-1-20150409

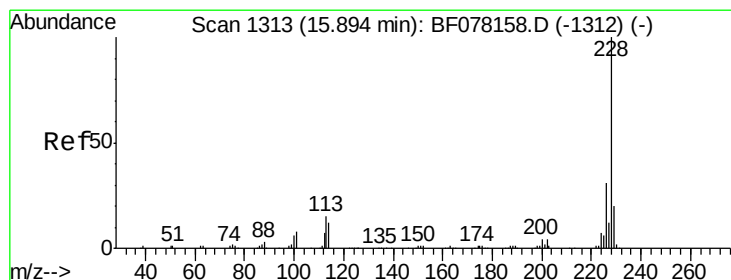
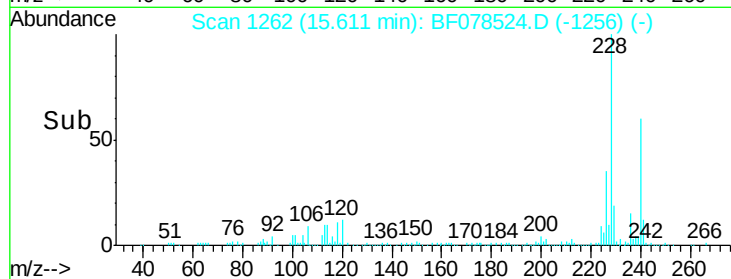
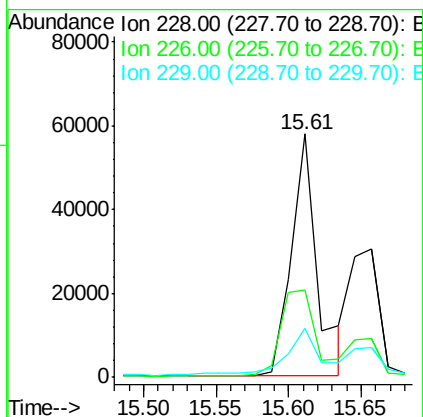
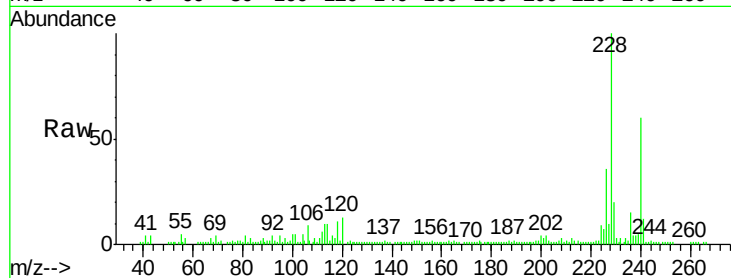
Tgt Ion:228 Resp: 71622

Ion Ratio Lower Upper

228 100

226 36.0 21.3 31.9#

229 20.3 15.4 23.2



#82

Chrysene

Concen: 11.56 ng

RT: 15.61 min Scan# 1262

Delta R.T. -0.08 min

Lab File: BF078524.D

Acq: 15 Apr 2015 3:11

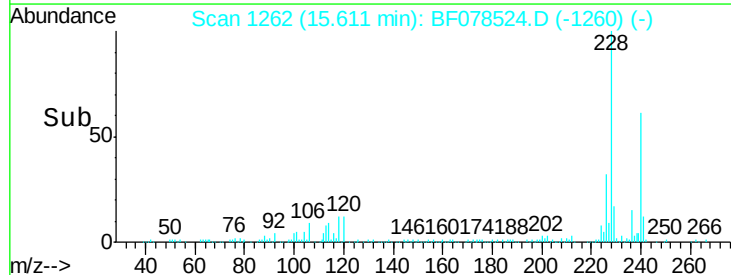
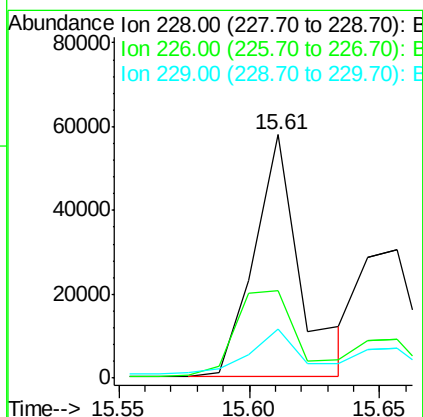
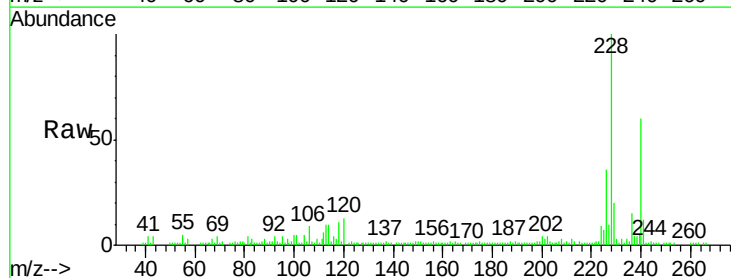
Tgt Ion:228 Resp: 70995

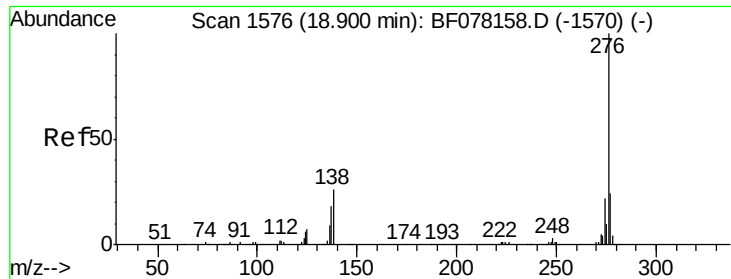
Ion Ratio Lower Upper

228 100

226 36.0 24.2 36.4

229 20.3 15.8 23.8

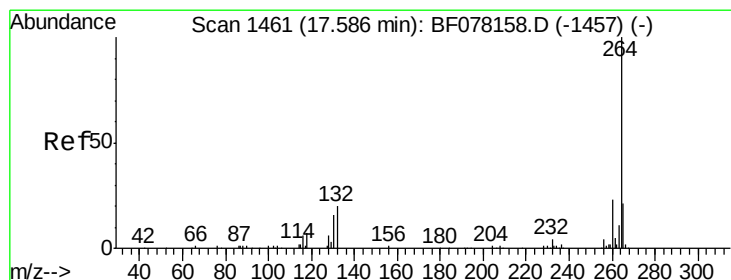
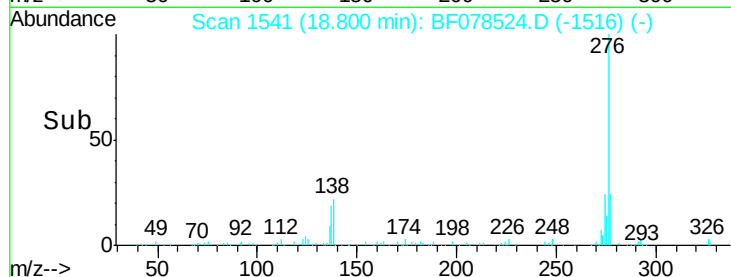
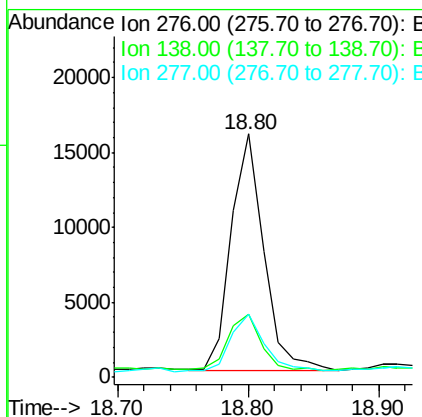
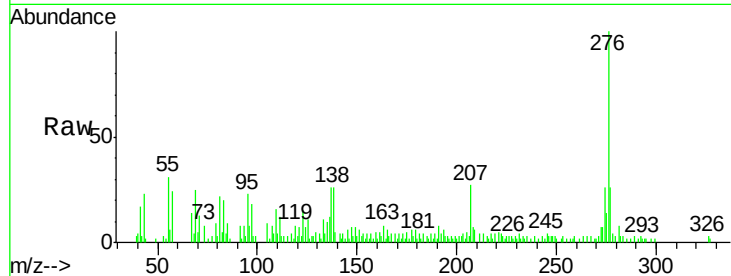




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.93 ng
 RT: 18.80 min Scan# 1541
 Delta R.T. -0.01 min
 Lab File: BF078524.D
 Acq: 15 Apr 2015 3:11

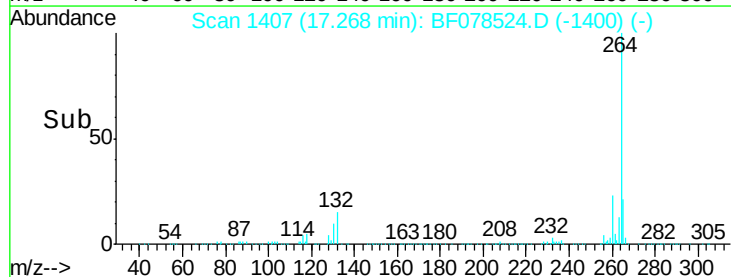
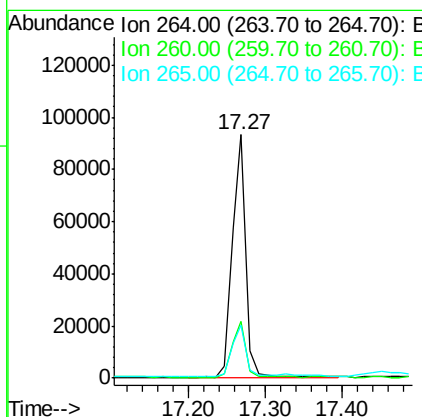
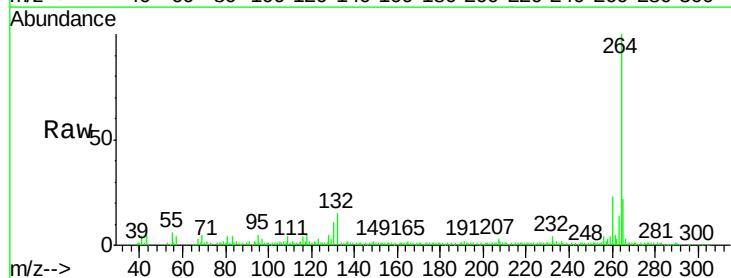
Instrument :
 BNA_F
 ClientSampleId :
 FD-1-20150409

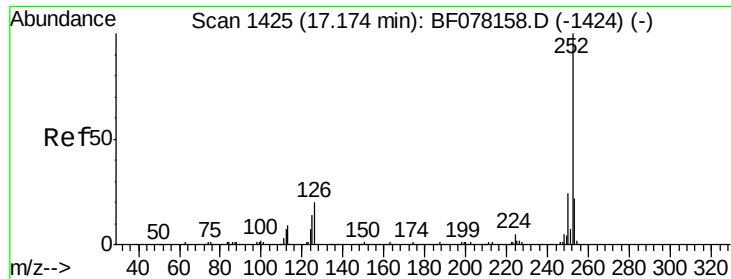
Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.0	16.9	25.3
277	25.4	15.8	23.6



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.27 min Scan# 1407
 Delta R.T. -0.22 min
 Lab File: BF078524.D
 Acq: 15 Apr 2015 3:11

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	27.8
265	21.7	17.0	25.6

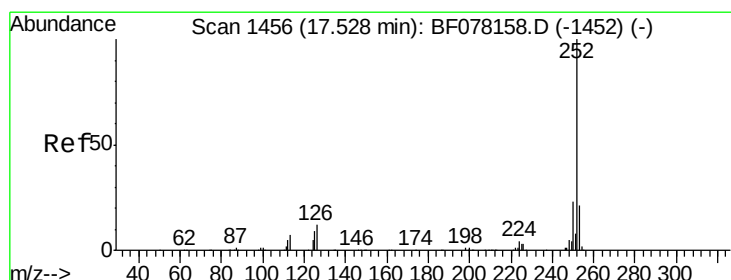
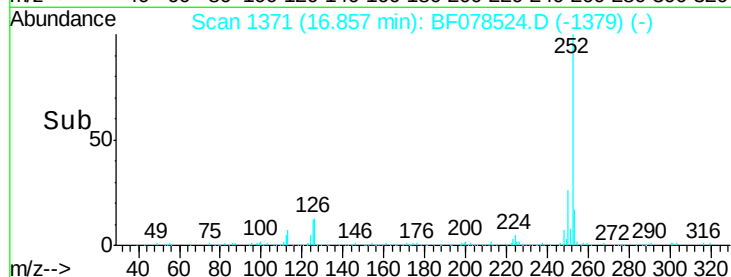
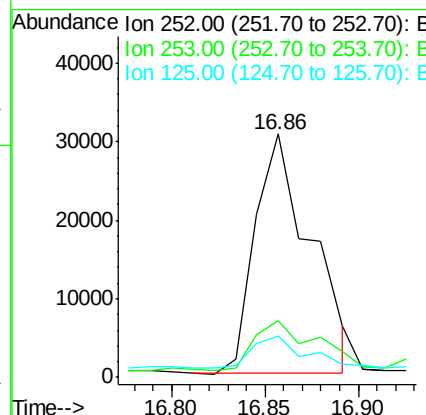
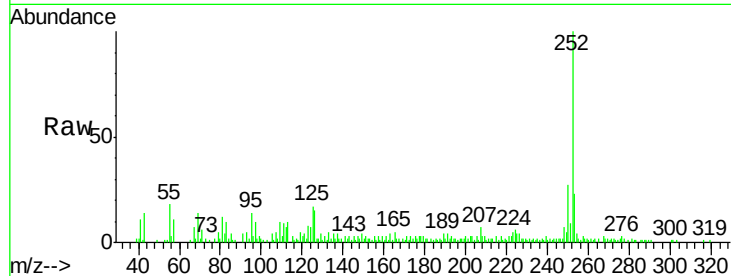




#88
Benzo(k)fluoranthene
Concen: 9.64 ng
RT: 16.86 min Scan# 1371
Delta R.T. -0.19 min
Lab File: BF078524.D
Acq: 15 Apr 2015 3:11

Instrument :
BNA_F
ClientSampleId :
FD-1-20150409

Tgt Ion:252 Resp: 63352
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 16.8 11.6 17.4



#89
Benzo(a)pyrene
Concen: 8.30 ng
RT: 17.20 min Scan# 1401
Delta R.T. -0.22 min
Lab File: BF078524.D
Acq: 15 Apr 2015 3:11

Tgt Ion:252 Resp: 53521
Ion Ratio Lower Upper
252 100
253 24.3 16.8 25.2
125 17.7 7.4 11.0#

