

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050417\
 Data File : BF094918.D
 Acq On : 5 May 2017 15:31
 Operator : SJ/MA
 Sample : I2953-03DL 25X
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 05 16:08:04 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	85518	20.00	ng	-0.01
21) Naphthalene-d8	9.74	136	375544	20.00	ng	-0.02
38) Acenaphthene-d10	12.57	164	173552	20.00	ng	-0.02
63) Phenanthrene-d10	14.97	188	317005	20.00	ng	-0.01
75) Chrysene-d12	18.64	240	225474	20.00	ng	-0.02
86) Perylene-d12	20.30	264	198042	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.73	112	8593	1.68	ng	0.05
7) Phenol-d6	7.33	99	19388	3.15	ng	0.05
23) Nitrobenzene-d5	8.65	82	14629	2.46	ng	0.02
41) 2,4,6-Tribromophenol	13.88	330	5226	3.68	ng	0.00
44) 2-Fluorobiphenyl	11.52	172	33427	2.77	ng	-0.01
78) Terphenyl-d14	17.29	244	25052	2.45	ng	-0.02

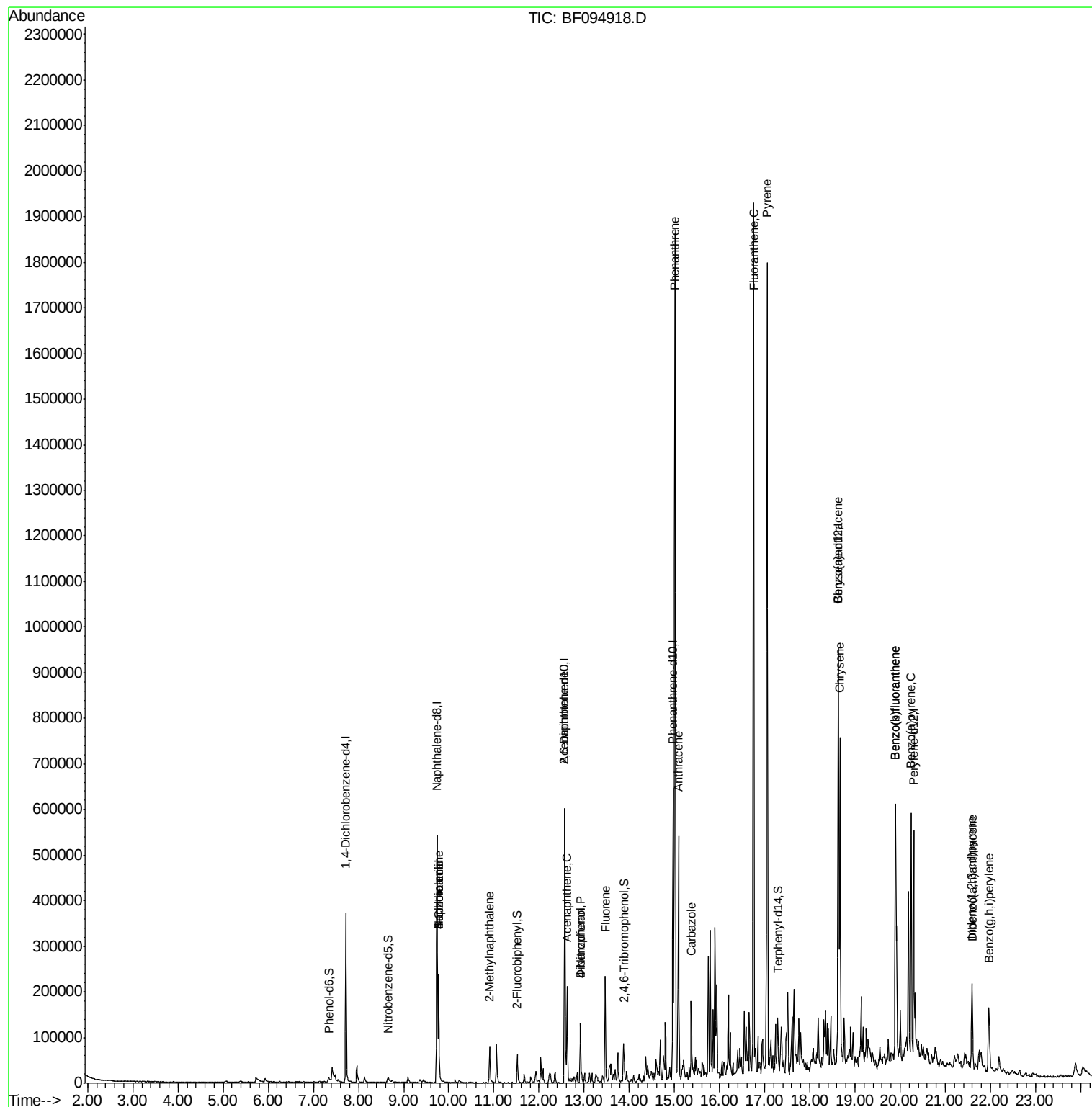
Target Compounds				Qvalue		
31) Naphthalene	9.77	128	158389	8.39	ng	99
32) Benzoic acid	9.77	122	106	5.11	ng	# 1
33) 4-Chloroaniline	9.77	127	20174	2.87	ng	# 35
37) 2-Methylnaphthalene	10.91	142	34776	2.81	ng	95
50) 2,6-Dinitrotoluene	12.57	165	17738	6.10	ng	# 31
51) Acenaphthene	12.62	154	67574	6.12	ng	99
54) Dibenzofuran	12.91	168	80992	5.30	ng	98
55) 4-Nitrophenol	12.91	139	29305	15.64	ng	# 27
57) Fluorene	13.47	166	87471	6.59	ng	100
70) Phenanthrene	15.01	178	1016818	55.83	ng	98
71) Anthracene	15.09	178	288701	15.52	ng	97
72) Carbazole	15.37	167	92085	5.44	ng	97
74) Fluoranthene	16.75	202	945970	50.63	ng	99
77) Pyrene	17.05	202	786961	46.67	ng	97
80) Benzo(a)anthracene	18.62	228	319600	24.36	ng	99
82) Chrysene	18.67	228	307210	24.21	ng	97
85) Indeno(1,2,3-cd)pyrene	21.59	276	107109	10.39	ng	94
87) Benzo(b)fluoranthene	19.89	252	416818	34.06	ng	97
88) Benzo(k)fluoranthene	19.89	252	416818	35.31	ng	97
89) Benzo(a)pyrene	20.24	252	228912	20.27	ng	98
90) Dibenzo(a,h)anthracene	21.60	278	28973	3.11	ng	94
91) Benzo(g,h,i)perylene	21.96	276	102654	11.22	ng	99

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

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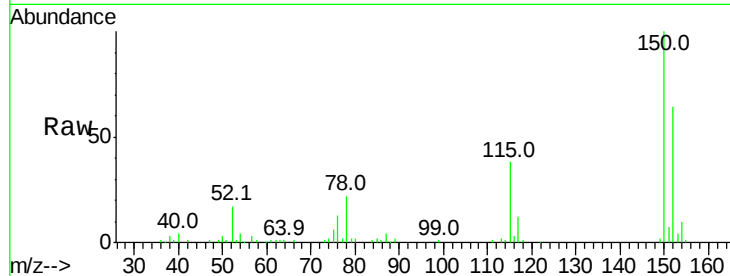


#1

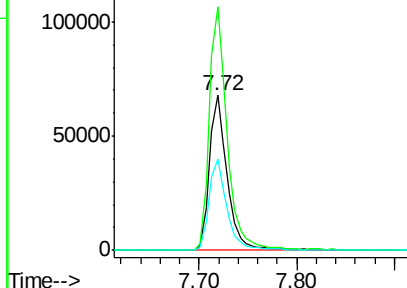
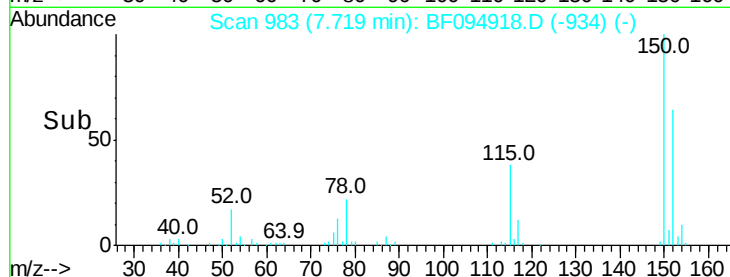
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.72 min Scan# 983
Delta R.T. -0.01 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 85518
Ion Ratio Lower Upper
152 100
150 157.1 126.2 189.2
115 59.1 52.2 78.2



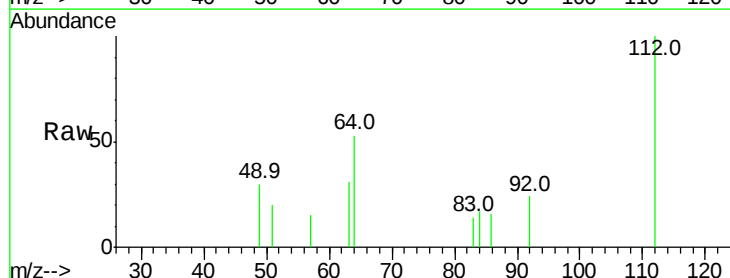
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



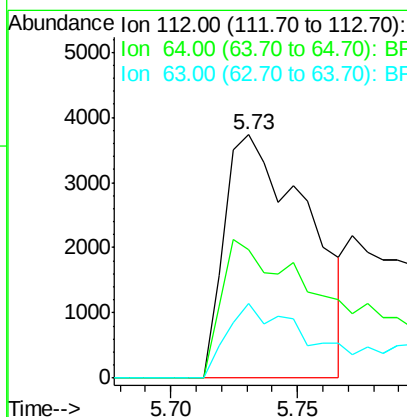
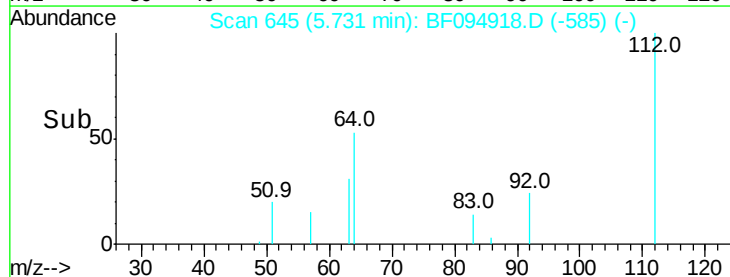
#5

2-Fluorophenol
Concen: 1.68 ng
RT: 5.73 min Scan# 645
Delta R.T. 0.05 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion:112 Resp: 8593
Ion Ratio Lower Upper
112 100
64 52.9 46.0 69.0
63 30.6 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: 3.15 ng

RT: 7.33 min Scan# 917

Delta R.T. 0.05 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Instrument :

BNA_F

ClientSampled :

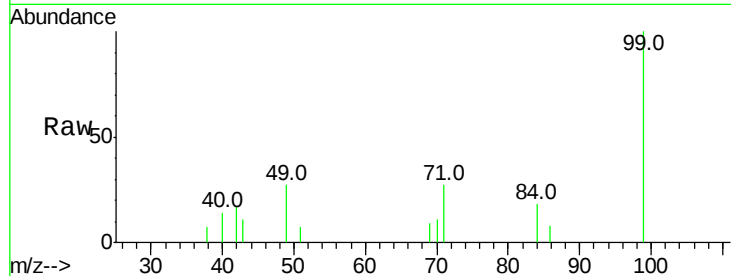
Tot Ion: 99 Resp: 19388

Ion Ratio Lower Upper

99 100

42 17.2 13.5 20.3

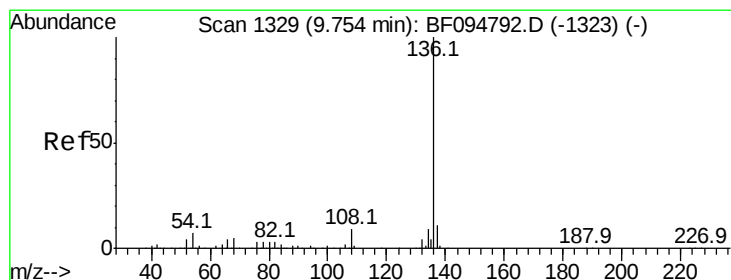
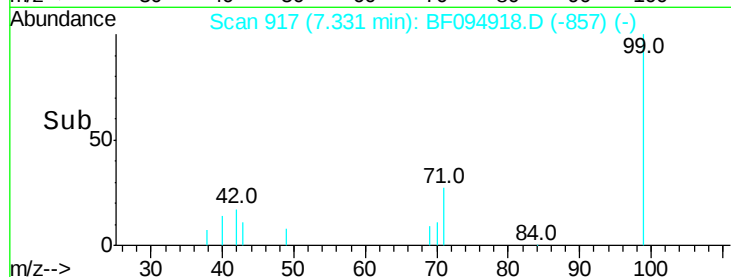
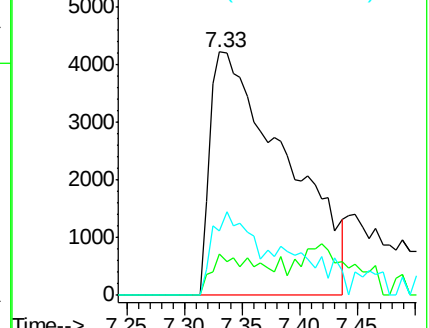
71 26.6 24.5 36.7



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.74 min Scan# 1326

Delta R.T. -0.02 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Tgt Ion: 136 Resp: 375544

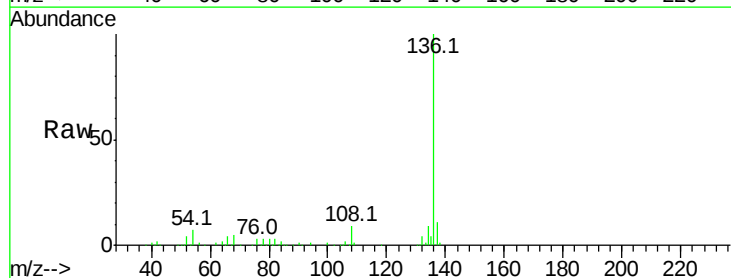
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.0 4.9 7.3

68 5.4 4.1 6.1

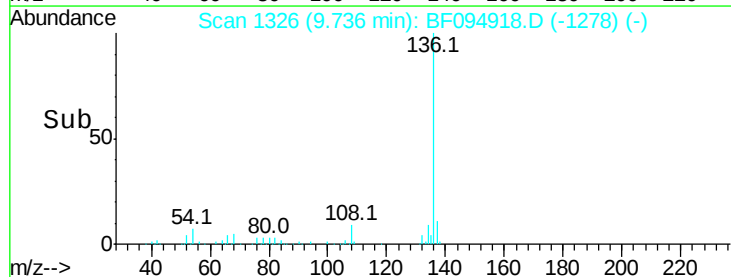
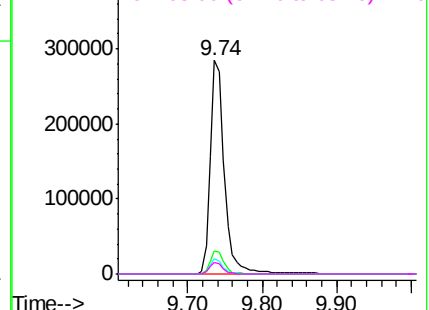


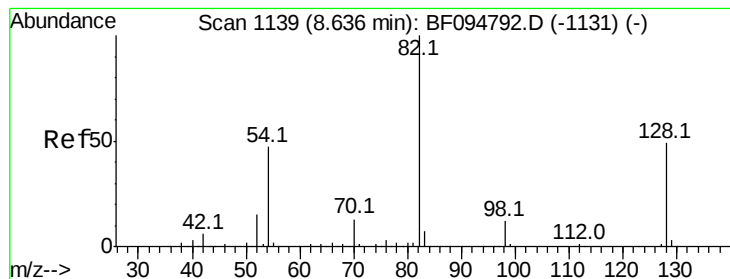
Abundance Ion 136.00 (135.70 to 136.70): E

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: 2.46 ng

RT: 8.65 min Scan# 1142

Delta R.T. 0.02 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Instrument :

BNA_F

ClientSampleId :

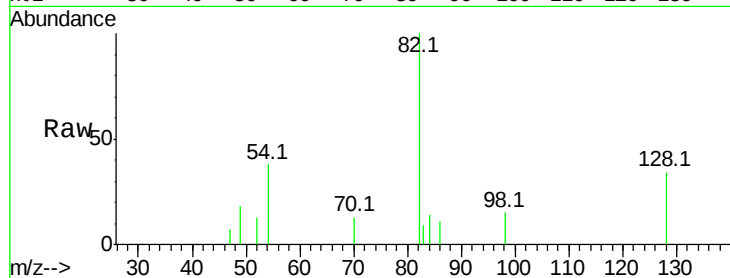
Tot Ion: 82 Resp: 14629

Ion Ratio Lower Upper

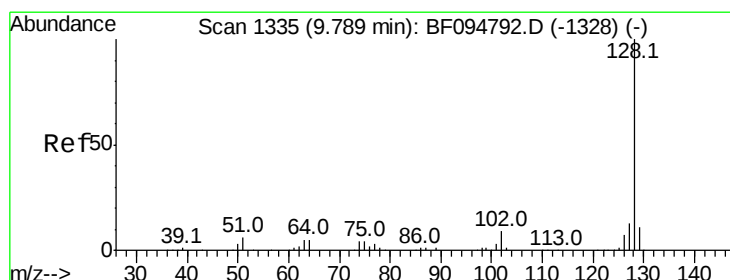
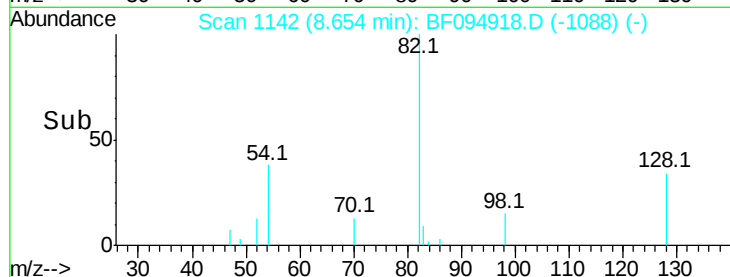
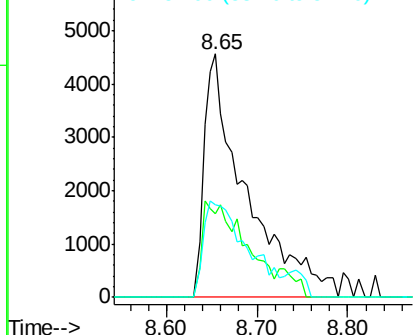
82 100

128 34.1 34.0 51.0

54 38.3 42.2 63.2#



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



#31

Naphthalene

Concen: 8.39 ng

RT: 9.77 min Scan# 1332

Delta R.T. -0.02 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

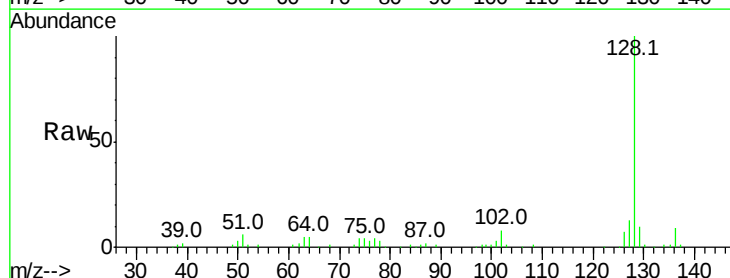
Tgt Ion: 128 Resp: 158389

Ion Ratio Lower Upper

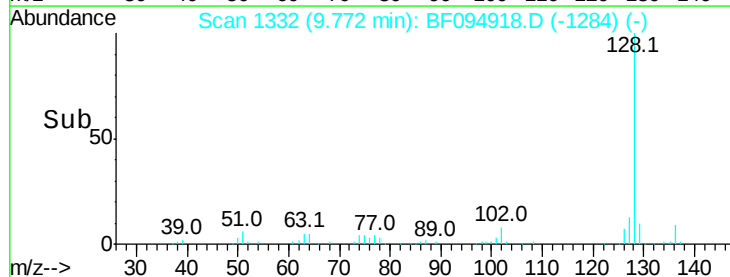
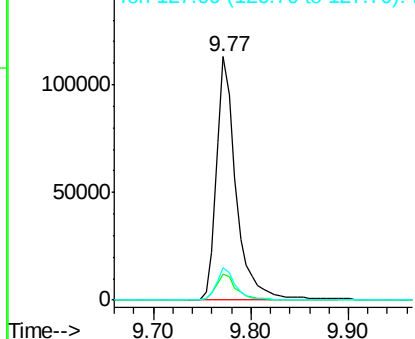
128 100

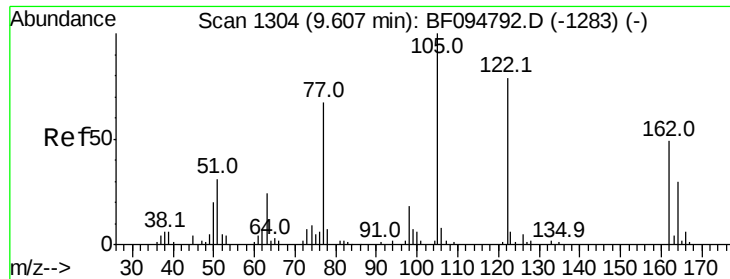
129 10.5 9.0 13.6

127 13.1 10.8 16.2



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

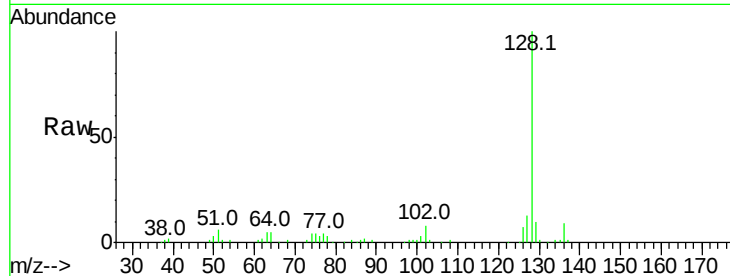




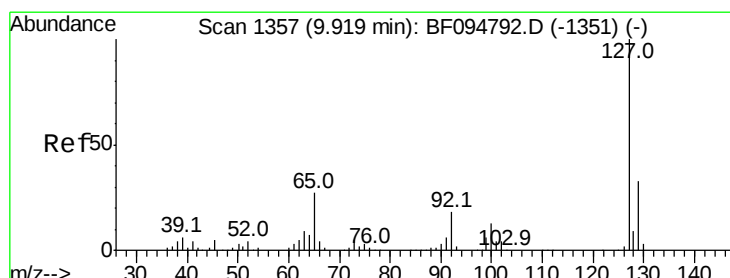
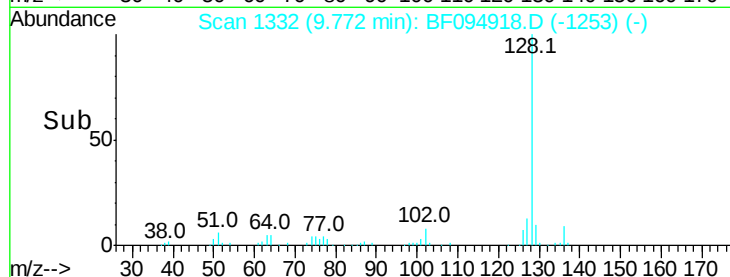
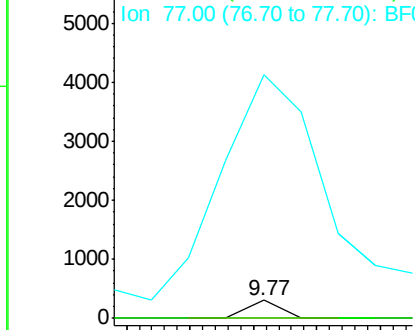
#32
Benzoic acid
Concen: 5.11 ng
RT: 9.77 min Scan# 1332
Delta R.T. 0.16 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion:122 Resp: 106
Ion Ratio Lower Upper
122 100
105 0.0 103.3 143.3#
77 1375.3 73.7 113.7#

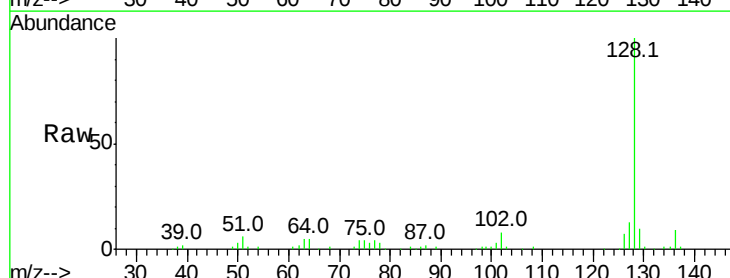


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF0

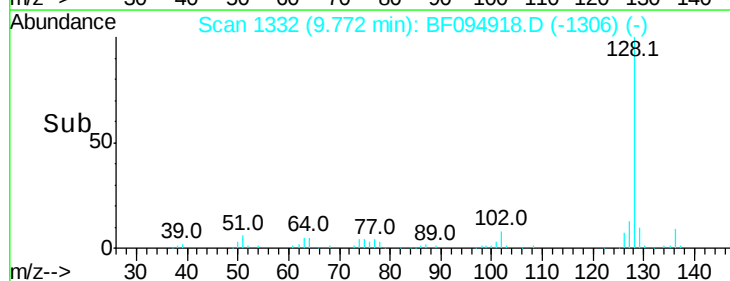
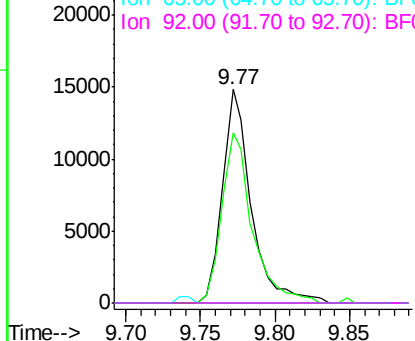


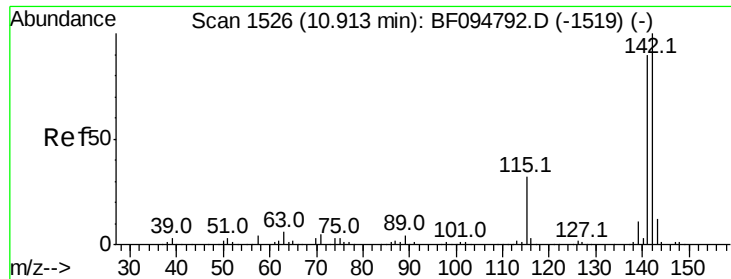
#33
4-Chloroaniline
Concen: 2.87 ng
RT: 9.77 min Scan# 1332
Delta R.T. -0.15 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion:127 Resp: 20174
Ion Ratio Lower Upper
127 100
129 79.8 26.2 39.2#
65 0.0 27.8 41.8#
92 0.0 16.8 25.2#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0

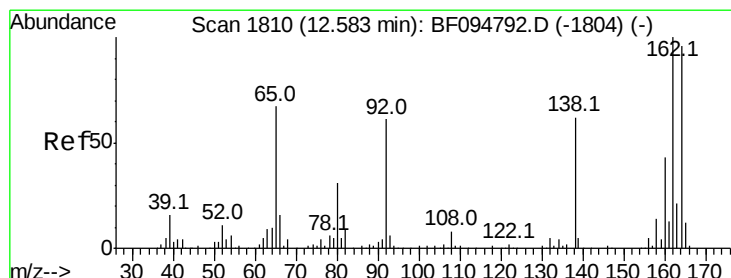
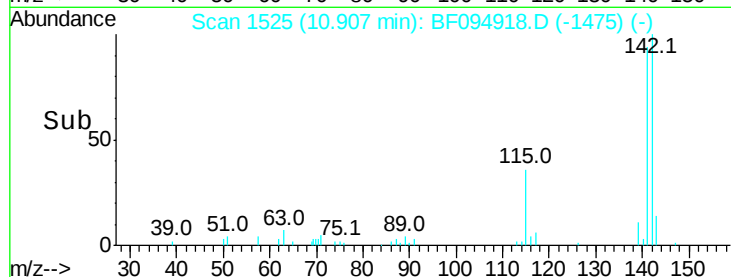
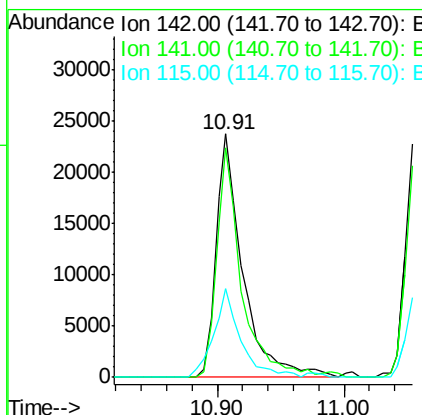
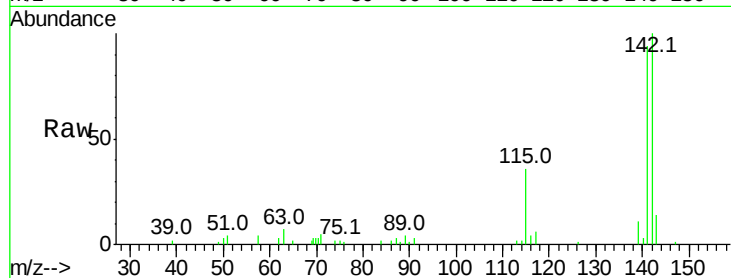




#37
2-Methylnaphthalene
Concen: 2.81 ng
RT: 10.91 min Scan# 1525
Delta R.T. -0.01 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

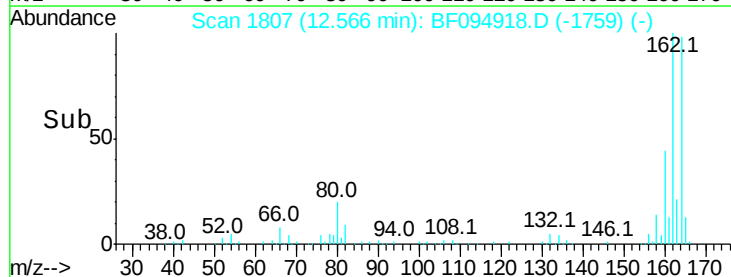
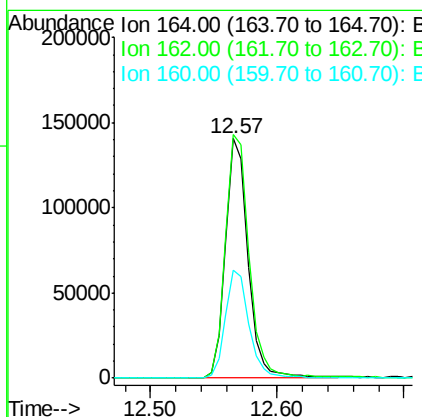
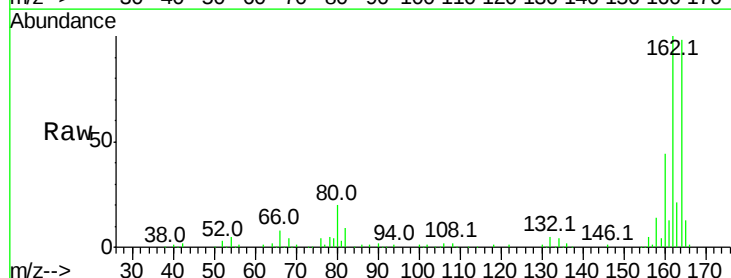
Instrument :
BNA_F
ClientSampleId :

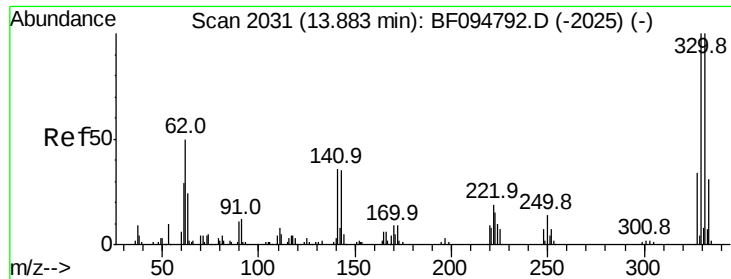
Tot Ion:142 Resp: 34776
Ion Ratio Lower Upper
142 100
141 94.1 71.3 106.9
115 36.3 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.57 min Scan# 1807
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion:164 Resp: 173552
Ion Ratio Lower Upper
164 100
162 101.7 82.6 123.8
160 45.1 36.2 54.2

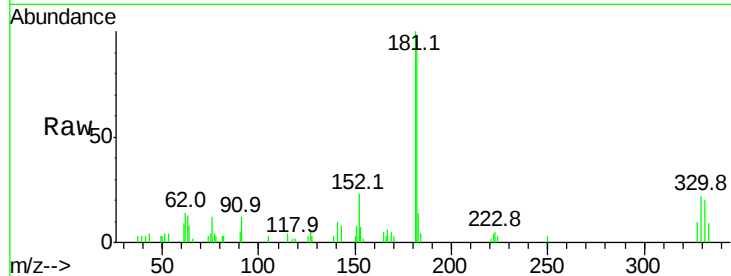




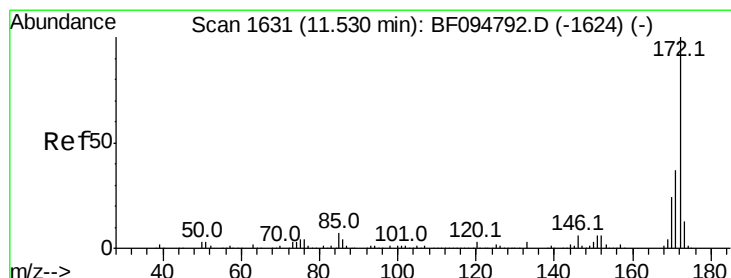
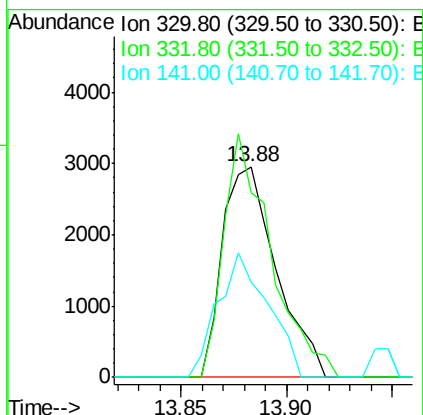
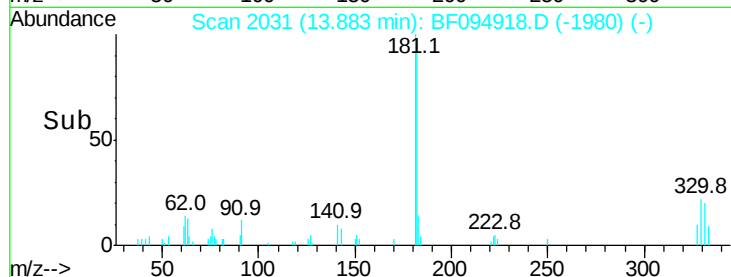
#41
 2,4,6-Tribromophenol
 Concen: 3.68 ng
 RT: 13.88 min Scan# 2031
 Delta R.T. 0.00 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 5226
 Ion Ratio Lower Upper
 330 100
 332 101.4 76.6 115.0
 141 54.9 31.4 47.2#

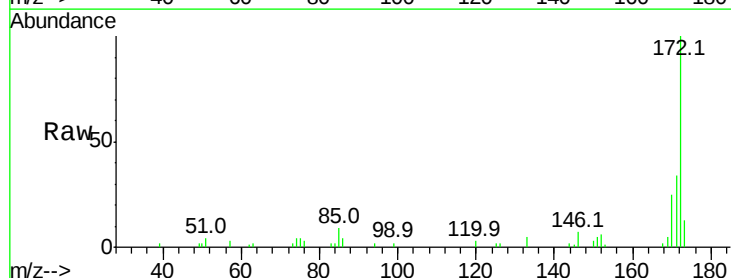


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

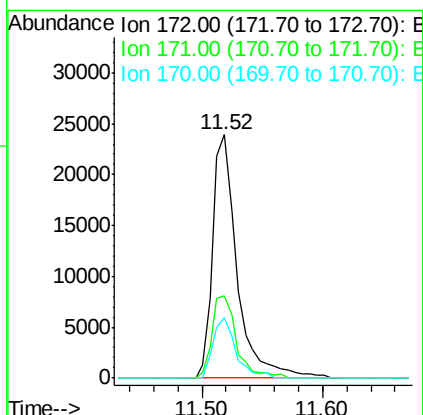
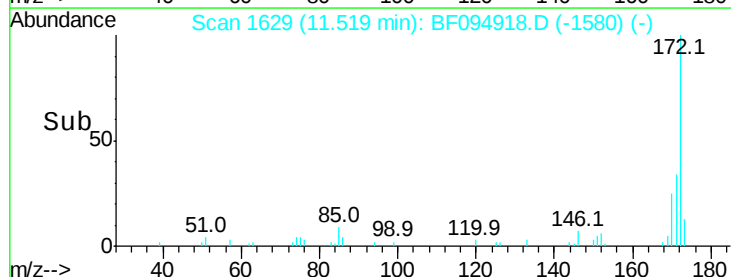


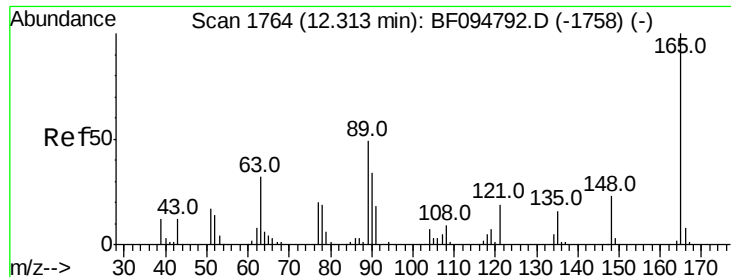
#44
 2-Fluorobiphenyl
 Concen: 2.77 ng
 RT: 11.52 min Scan# 1629
 Delta R.T. -0.01 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Tgt Ion:172 Resp: 33427
 Ion Ratio Lower Upper
 172 100
 171 33.7 29.6 44.4
 170 24.7 19.8 29.8



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

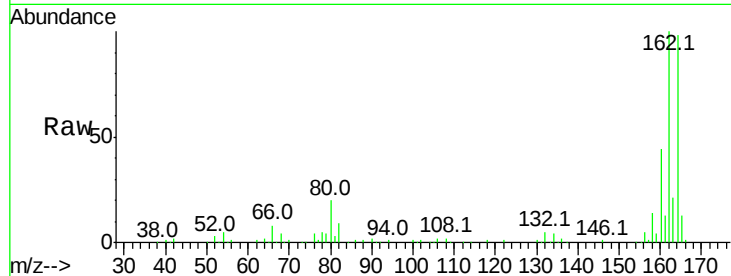




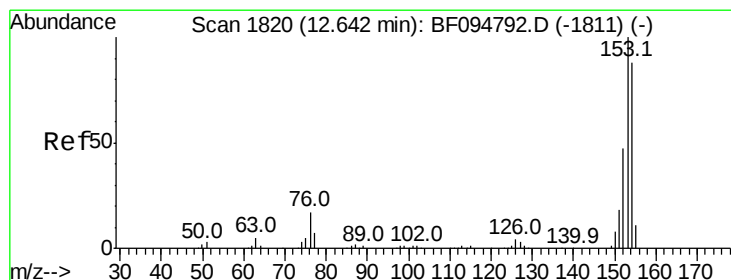
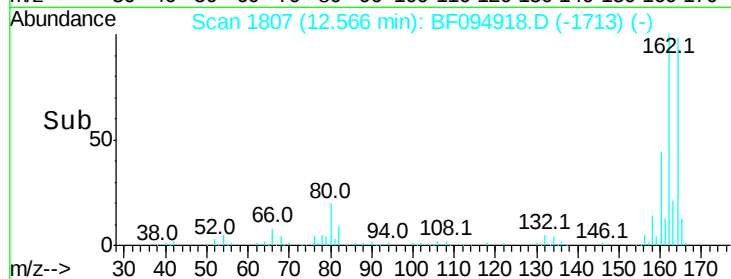
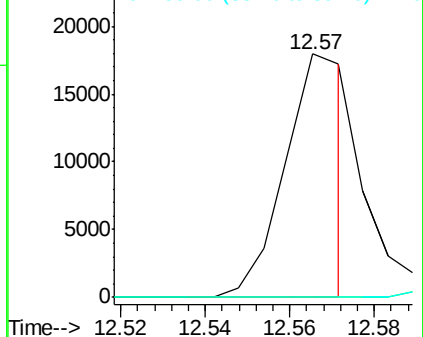
#50
2,6-Dinitrotoluene
Concen: 6.10 ng
RT: 12.57 min Scan# 1807
Delta R.T. 0.25 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampled :

Tot Ion:165 Resp: 17738
Ion Ratio Lower Upper
165 100
63 0.0 34.3 51.5#
89 0.0 37.1 55.7#

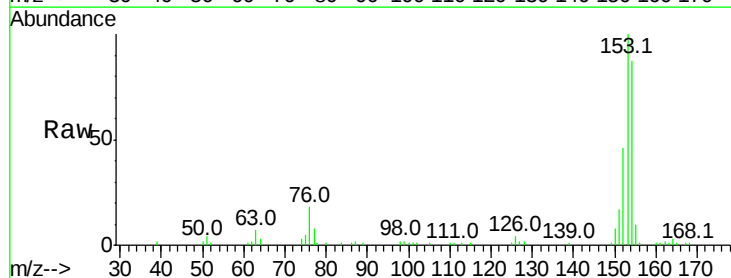


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

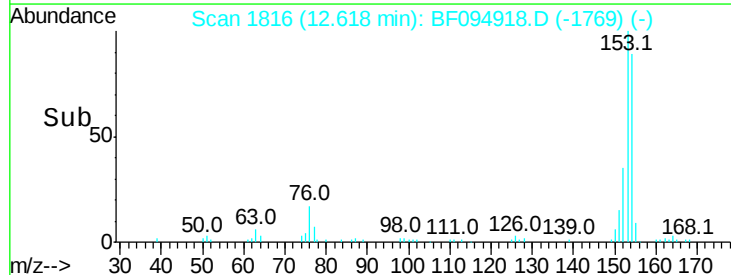
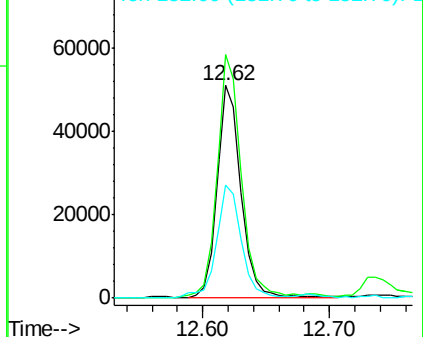


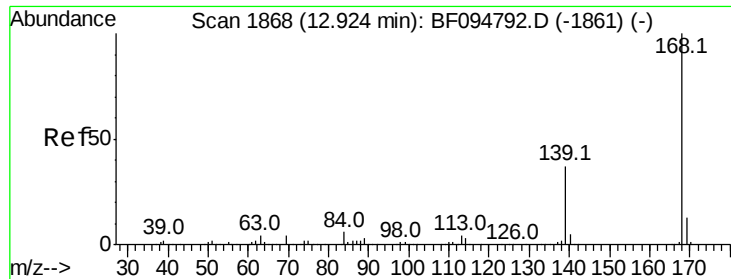
#51
Acenaphthene
Concen: 6.12 ng
RT: 12.62 min Scan# 1816
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion:154 Resp: 67574
Ion Ratio Lower Upper
154 100
153 114.5 90.5 135.7
152 53.2 43.6 65.4



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

Dibenzenofuran

Concen: 5.30 ng

RT: 12.91 min Scan# 1866

Delta R.T. -0.01 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Instrument :

BNA_F

ClientSampleId :

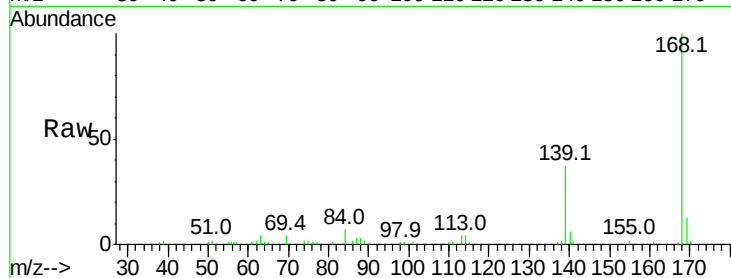
Tot Ion:168 Resp: 80992

Ion Ratio Lower Upper

168 100

139 36.8 30.6 45.8

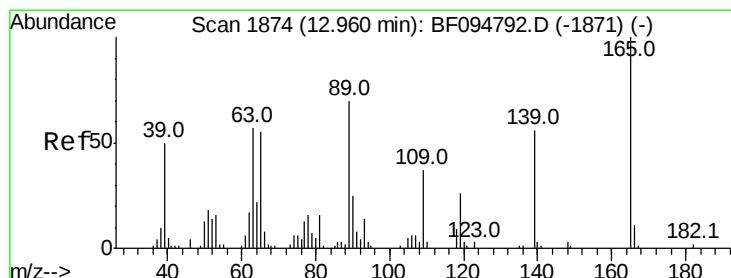
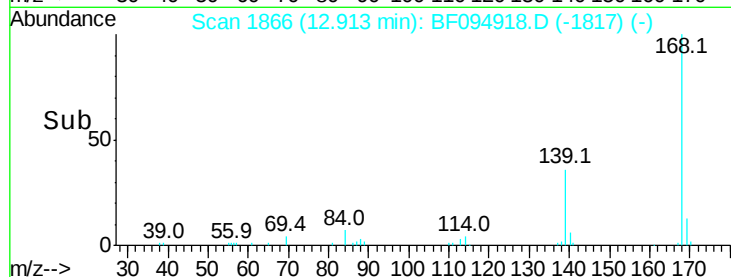
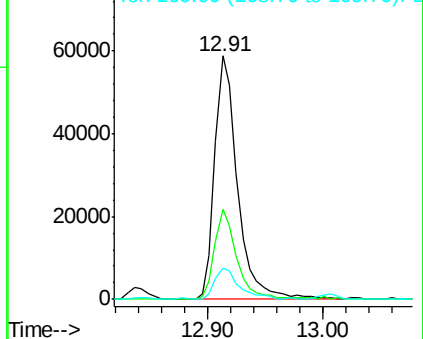
169 13.0 10.8 16.2



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: 15.64 ng

RT: 12.91 min Scan# 1866

Delta R.T. -0.05 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

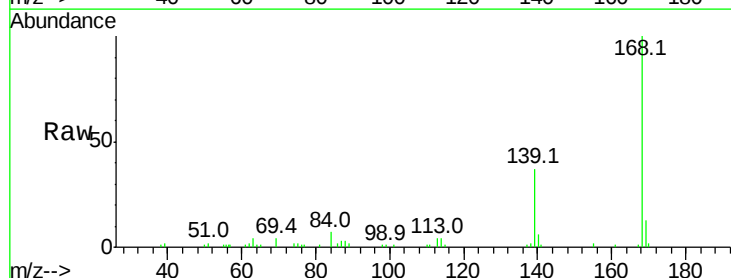
Tgt Ion:139 Resp: 29305

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

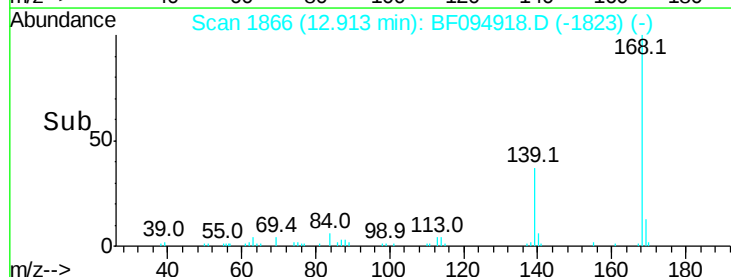
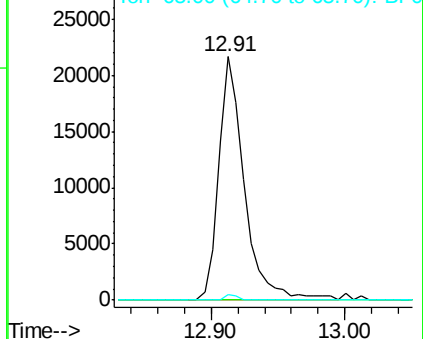
65 2.4 31.4 71.4#

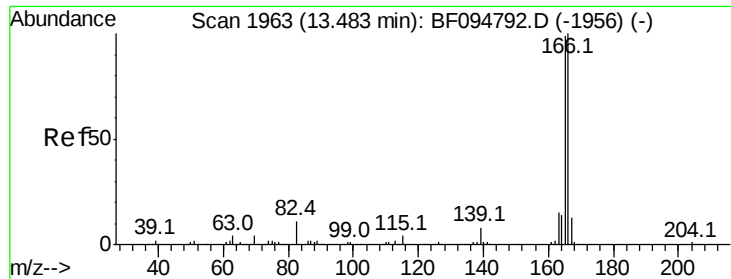


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

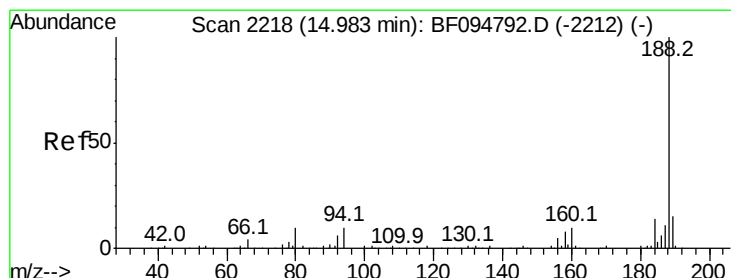
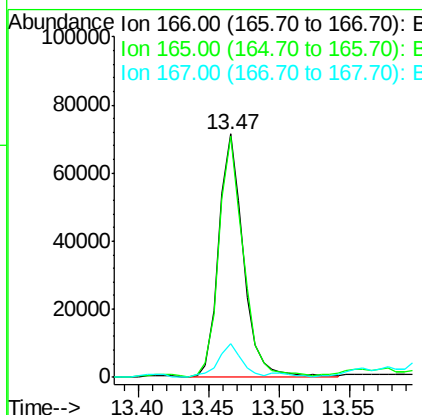
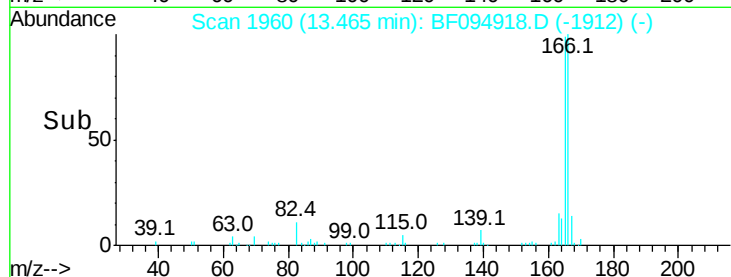
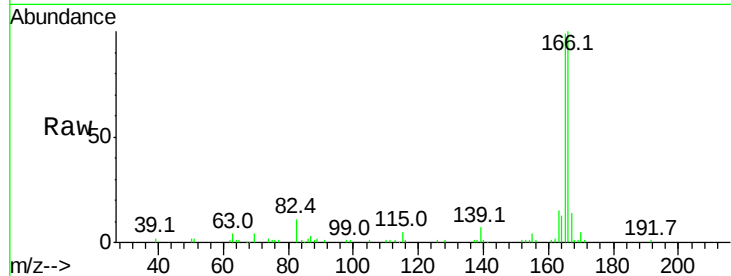




#57
 Fluorene
 Concen: 6.59 ng
 RT: 13.47 min Scan# 1960
 Delta R.T. -0.02 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

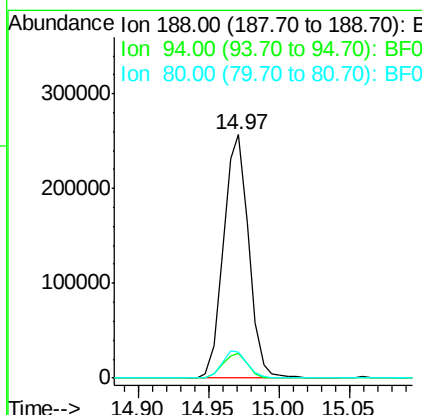
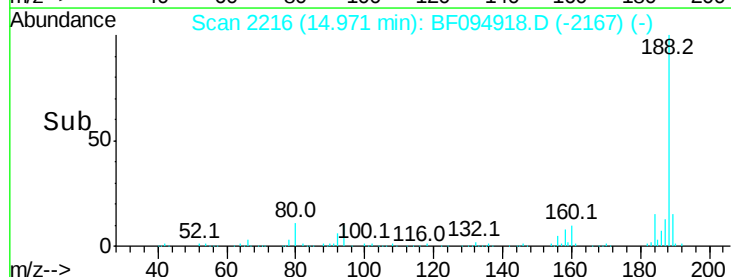
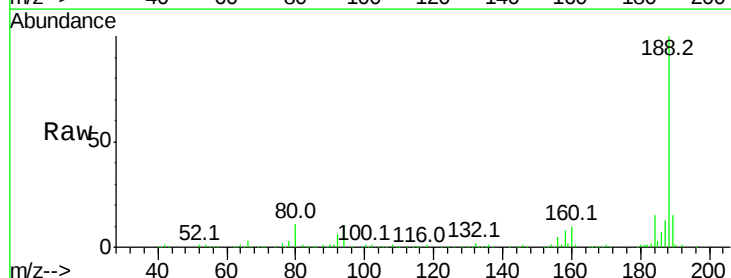
Instrument :
 BNA_F
 ClientSampleId :

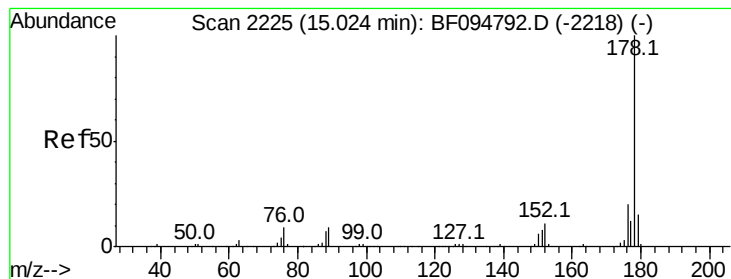
Tot Ion:166 Resp: 87471
 Ion Ratio Lower Upper
 166 100
 165 98.9 78.8 118.2
 167 13.8 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.97 min Scan# 2216
 Delta R.T. -0.01 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Tgt Ion:188 Resp: 317005
 Ion Ratio Lower Upper
 188 100
 94 10.1 9.4 14.2
 80 10.6 10.2 15.2





#70

Phenanthrene

Concen: 55.83 ng

RT: 15.01 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Instrument :

BNA_F

ClientSampled :

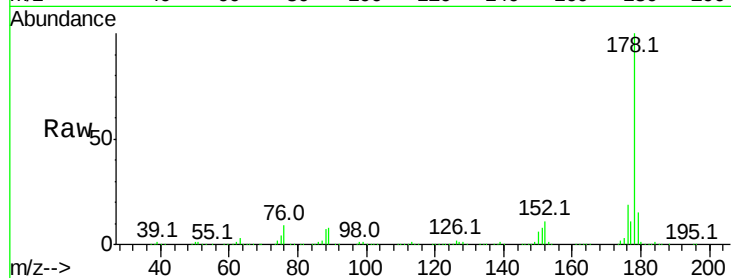
Tot Ion:178 Resp: 1016818

Ion Ratio Lower Upper

178 100

176 19.0 16.2 24.4

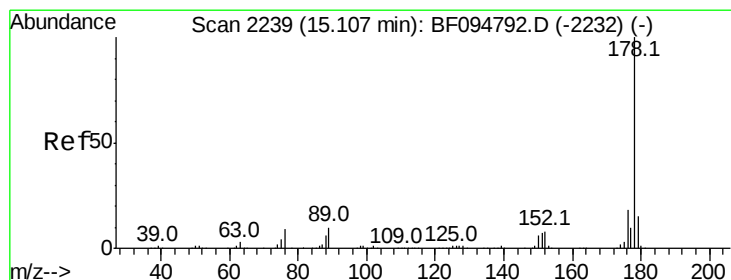
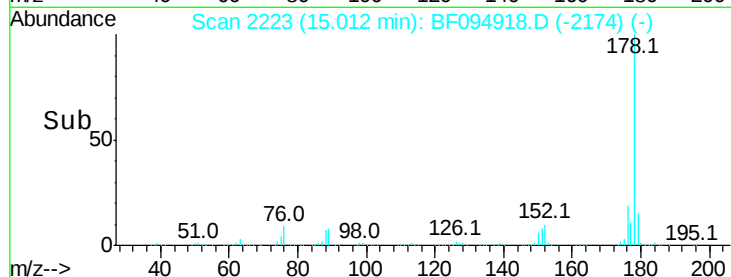
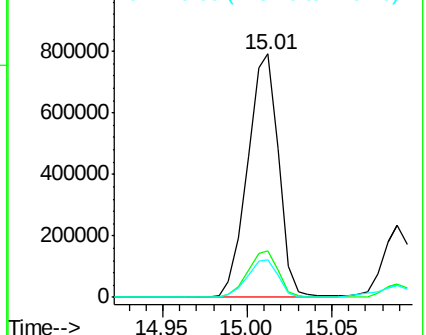
179 15.4 12.6 19.0



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: 15.52 ng

RT: 15.09 min Scan# 2236

Delta R.T. -0.02 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

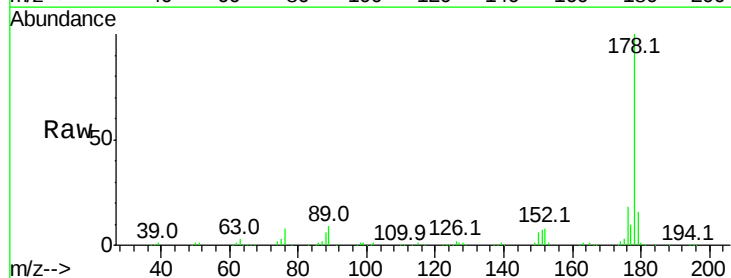
Tgt Ion:178 Resp: 288701

Ion Ratio Lower Upper

178 100

176 18.1 15.8 23.8

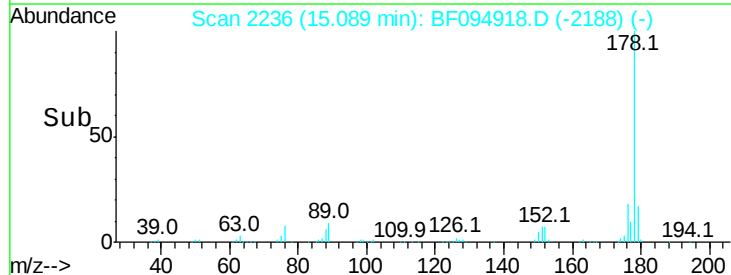
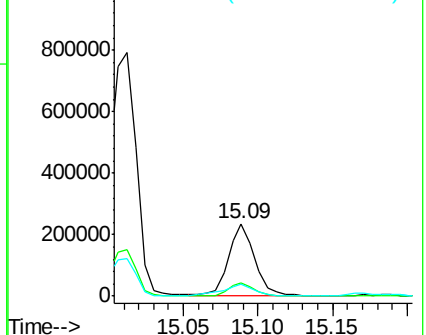
179 16.5 12.7 19.1

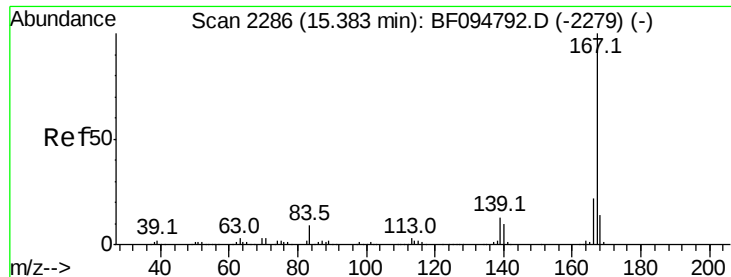


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.44 ng

RT: 15.37 min Scan# 2284

Delta R.T. -0.01 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Instrument :

BNA_F

ClientSampled :

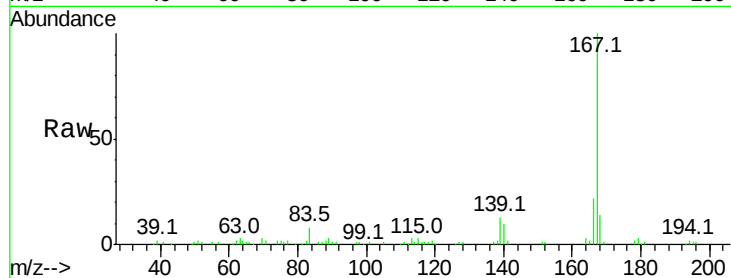
Tot Ion:167 Resp: 92085

Ion Ratio Lower Upper

167 100

166 21.5 18.1 27.1

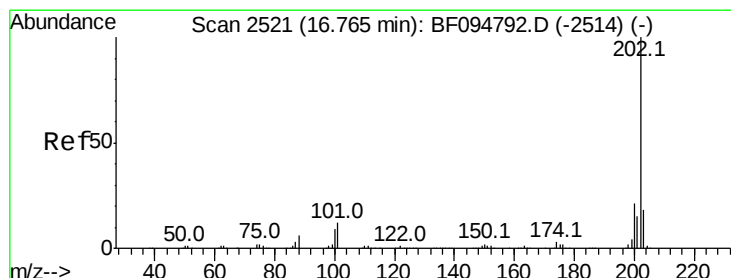
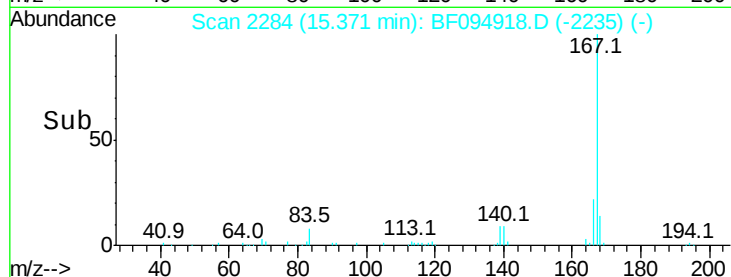
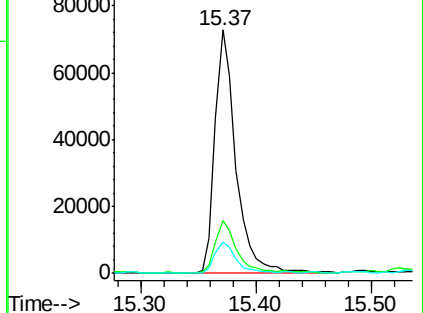
139 12.7 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 50.63 ng

RT: 16.75 min Scan# 2519

Delta R.T. -0.01 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

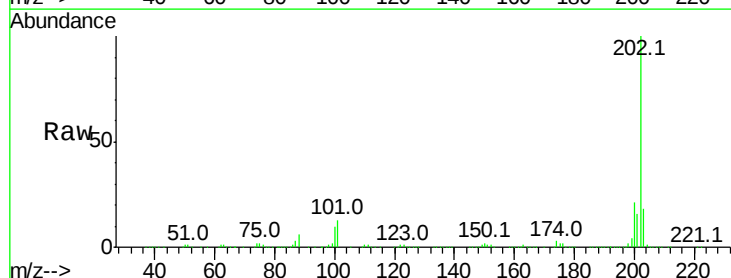
Tgt Ion:202 Resp: 945970

Ion Ratio Lower Upper

202 100

101 13.2 0.0 33.2

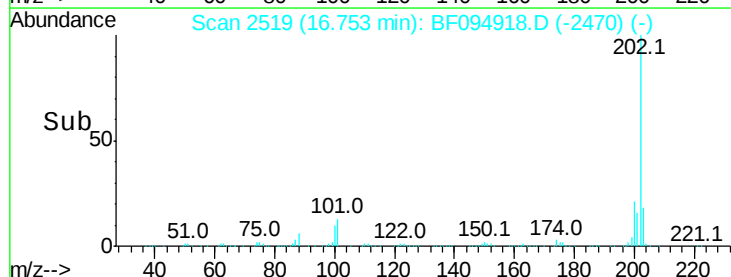
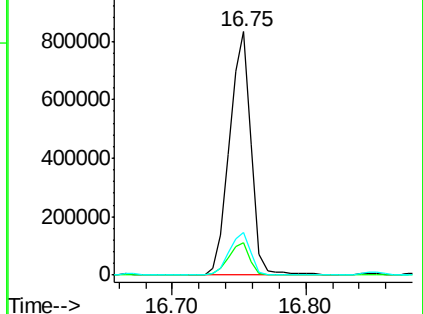
203 17.6 0.0 38.1

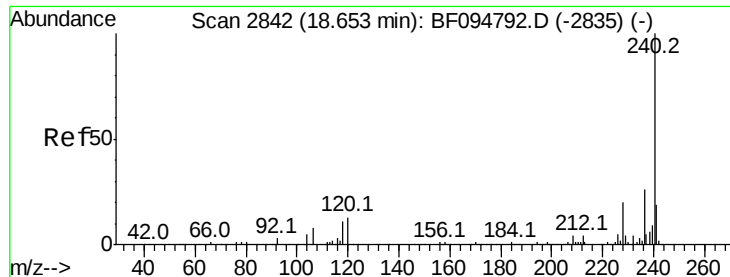


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

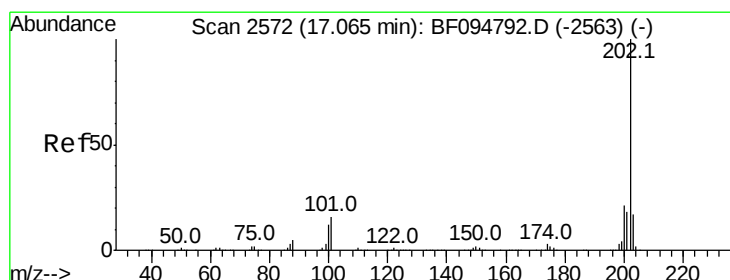
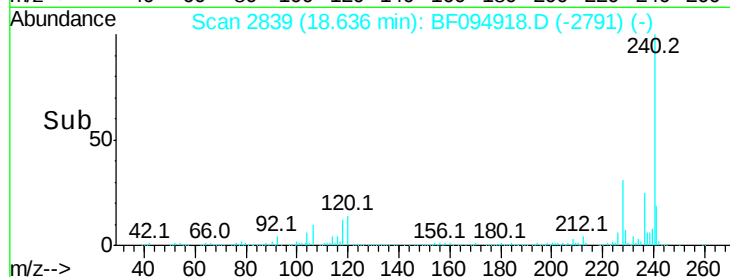
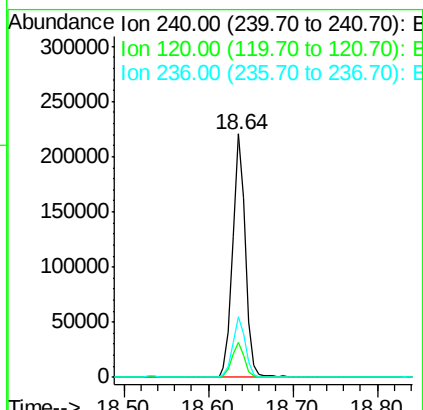
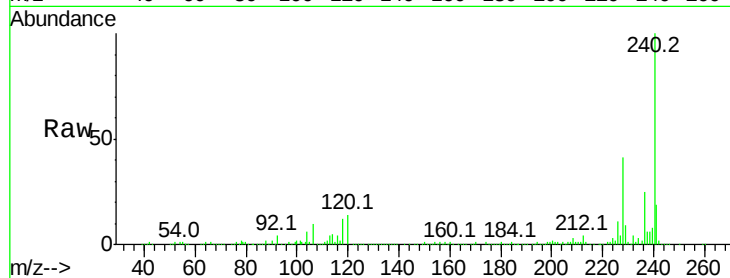




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.64 min Scan# 2839
 Delta R.T. -0.02 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

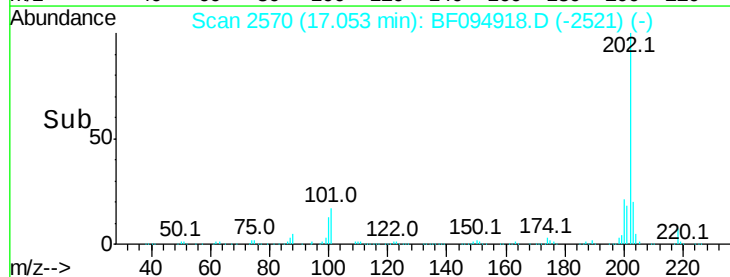
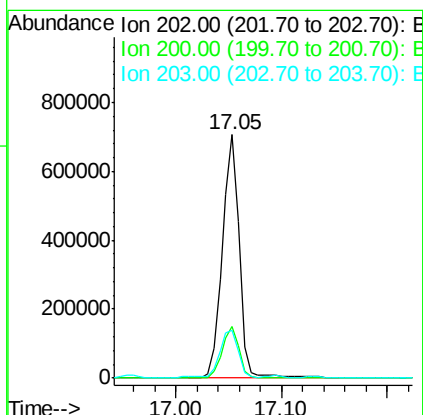
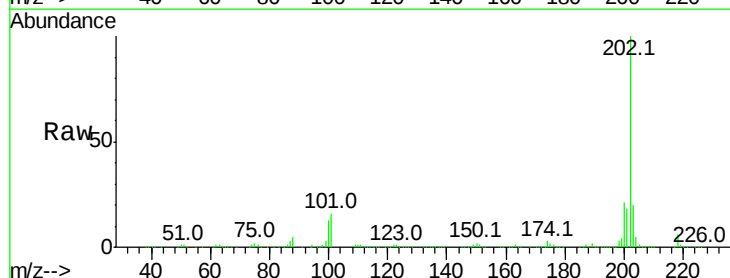
Instrument :
 BNA_F
 ClientSampleId :

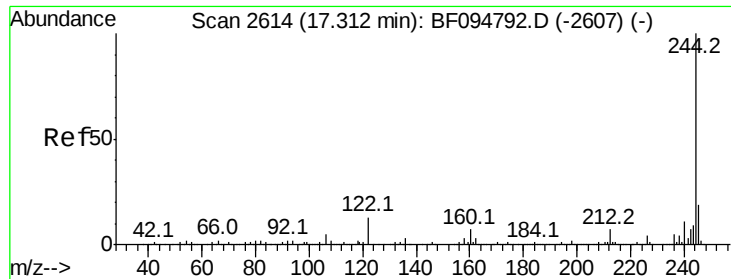
Tot Ion:240 Resp: 225474
 Ion Ratio Lower Upper
 240 100
 120 14.2 5.8 8.8#
 236 24.9 20.5 30.7



#77
 Pyrene
 Concen: 46.67 ng
 RT: 17.05 min Scan# 2570
 Delta R.T. -0.01 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Tgt Ion:202 Resp: 786961
 Ion Ratio Lower Upper
 202 100
 200 21.0 17.6 26.4
 203 19.8 14.4 21.6

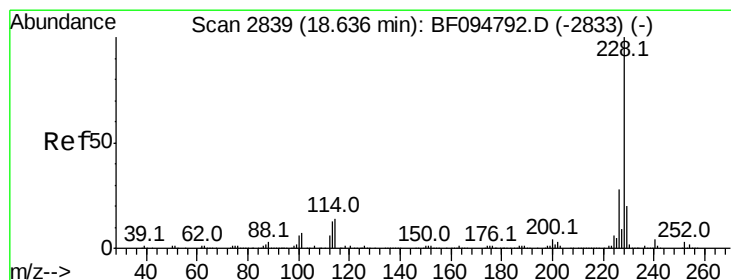
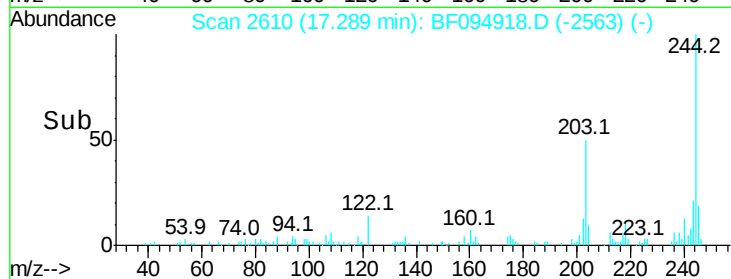
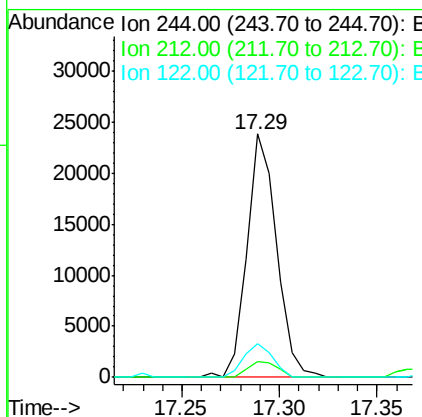
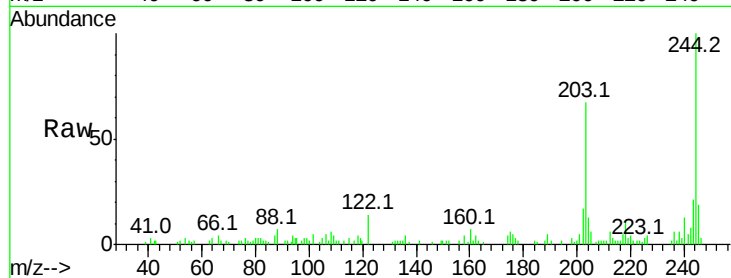




#78
 Terphenyl-d14
 Concen: 2.45 ng
 RT: 17.29 min Scan# 2610
 Delta R.T. -0.02 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

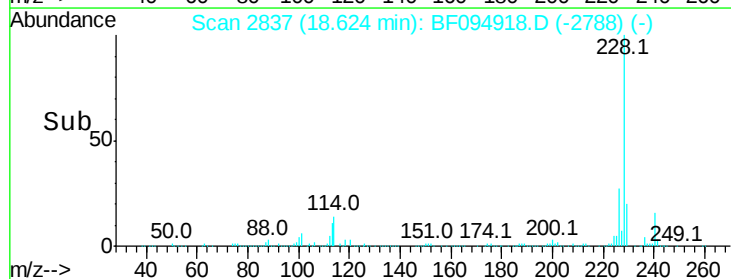
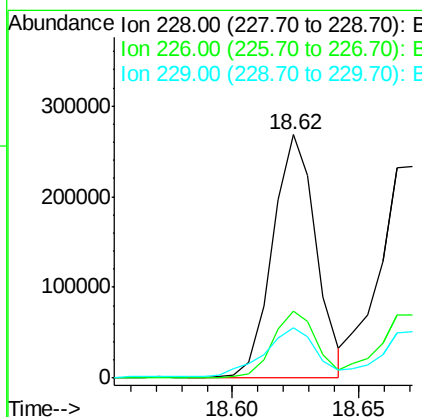
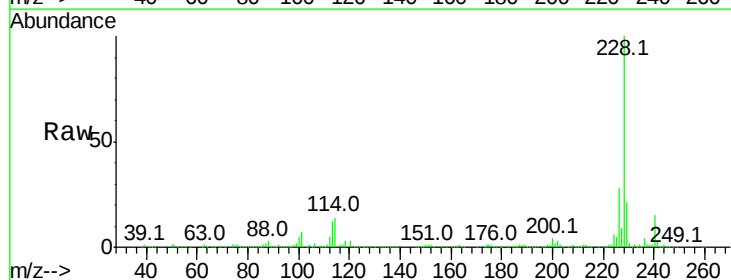
Instrument :
 BNA_F
 ClientSampleId :

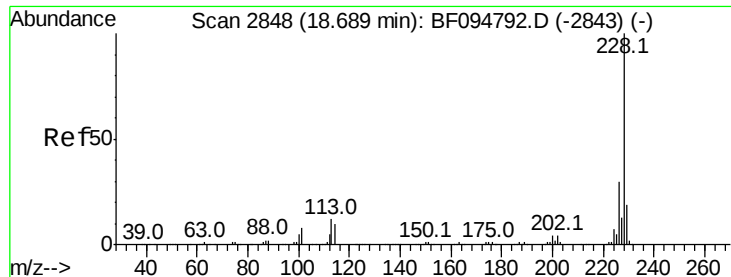
Tot Ion:244 Resp: 25052
 Ion Ratio Lower Upper
 244 100
 212 6.4 6.0 9.0
 122 13.6 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 24.36 ng
 RT: 18.62 min Scan# 2837
 Delta R.T. -0.01 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Tgt Ion:228 Resp: 319600
 Ion Ratio Lower Upper
 228 100
 226 27.7 22.6 33.8
 229 20.7 16.3 24.5





#82

Chrysene

Concen: 24.21 ng

RT: 18.67 min Scan# 2845

Delta R.T. -0.02 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Instrument :

BNA_F

ClientSampleId :

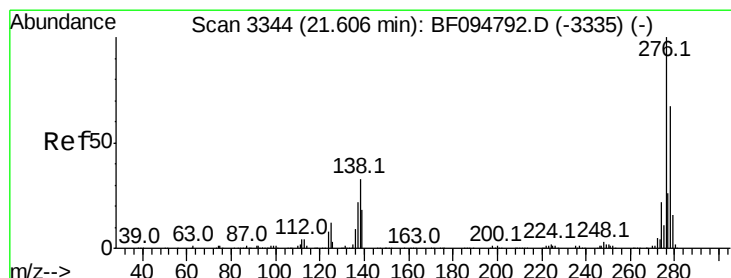
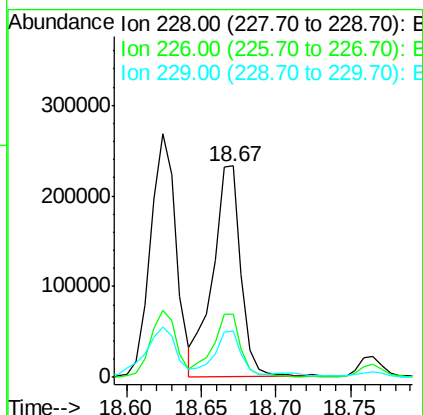
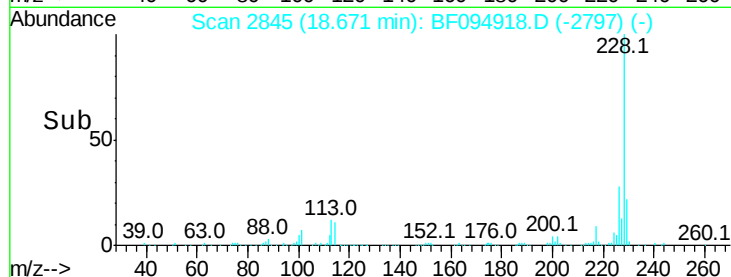
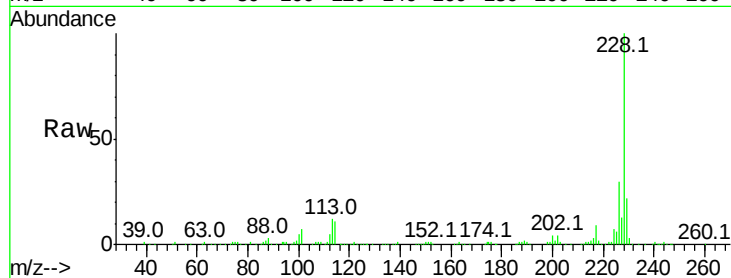
Tot Ion:228 Resp: 307210

Ion Ratio Lower Upper

228 100

226 30.0 24.9 37.3

229 22.0 15.8 23.6



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.39 ng

RT: 21.59 min Scan# 3341

Delta R.T. -0.02 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

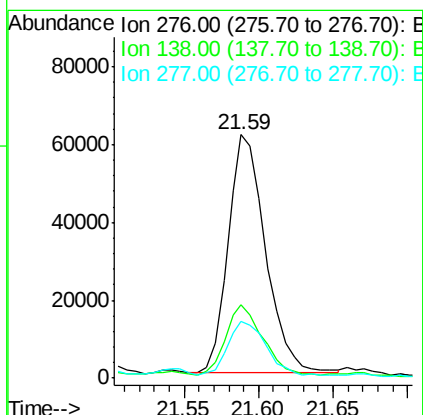
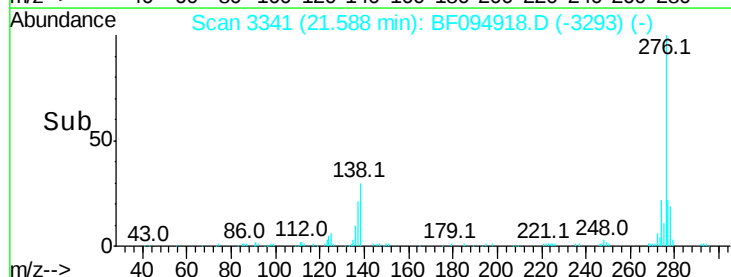
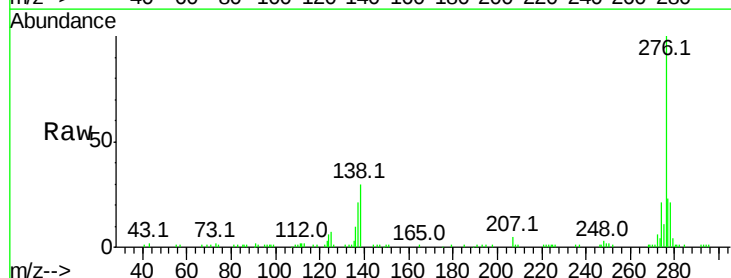
Tgt Ion:276 Resp: 107109

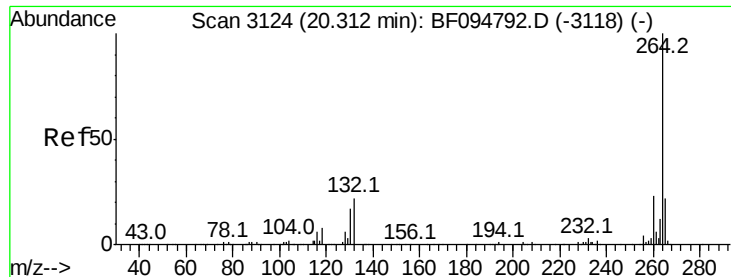
Ion Ratio Lower Upper

276 100

138 30.6 27.8 41.6

277 23.5 20.2 30.4

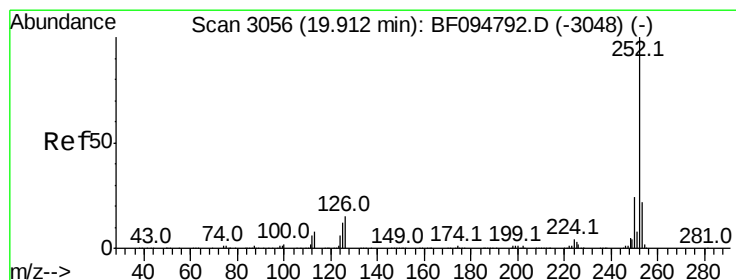
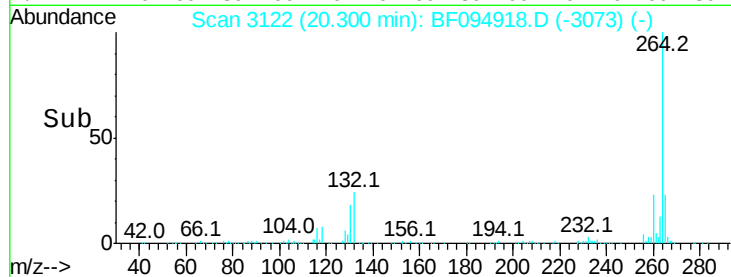
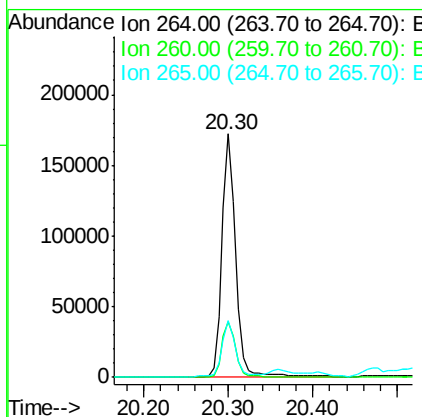
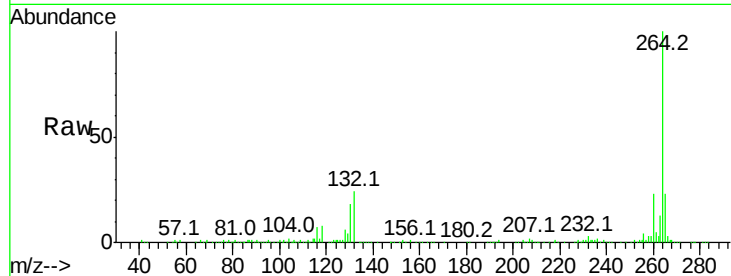




#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.01 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

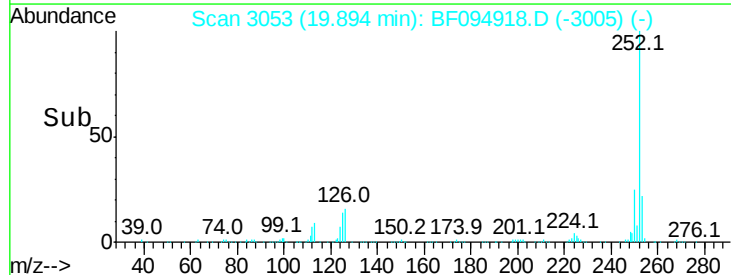
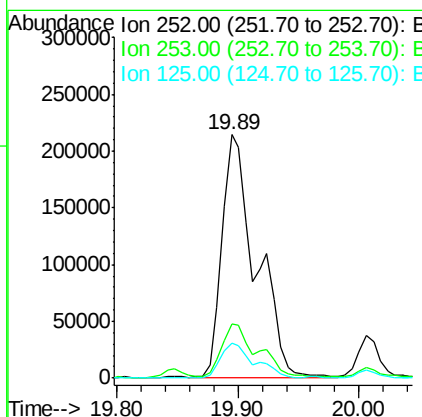
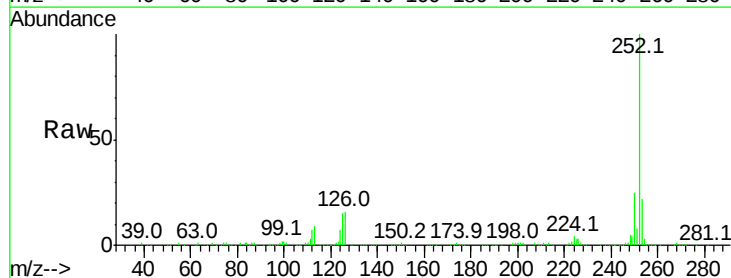
Instrument :
BNA_F
ClientSampleId :

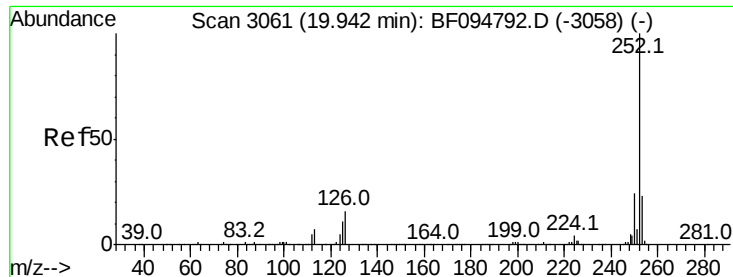
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	23.2	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 34.06 ng
RT: 19.89 min Scan# 3053
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.1	27.1
125	14.6	9.8	14.8

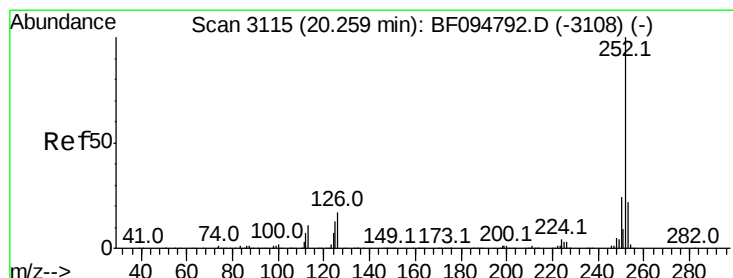
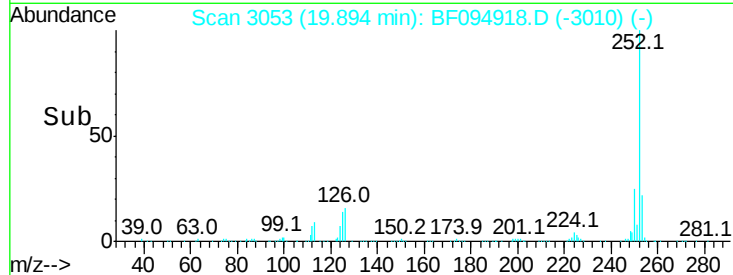
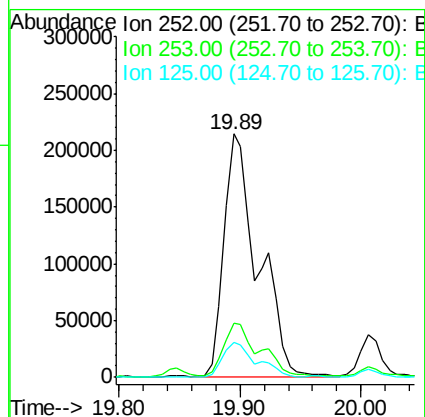
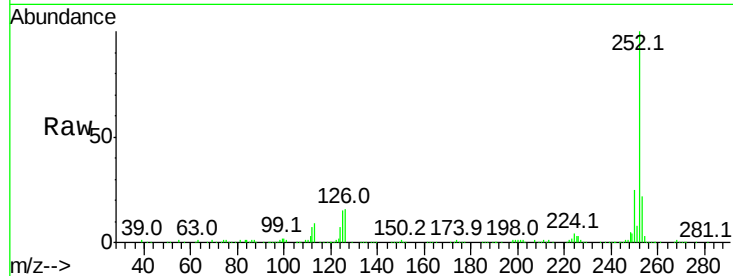




#88
Benzo(k)fluoranthene
Concen: 35.31 ng
RT: 19.89 min Scan# 3053
Delta R.T. -0.05 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

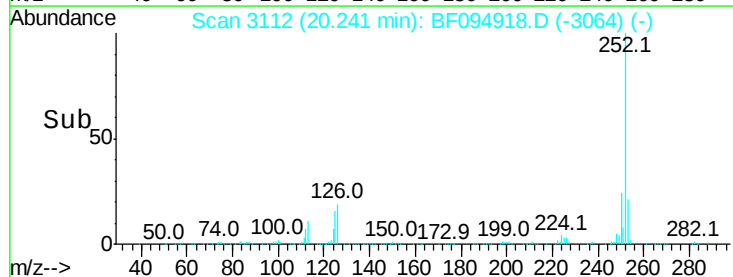
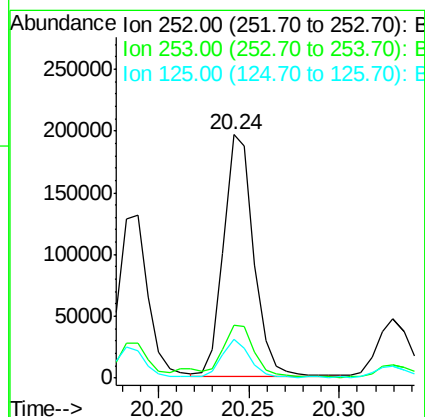
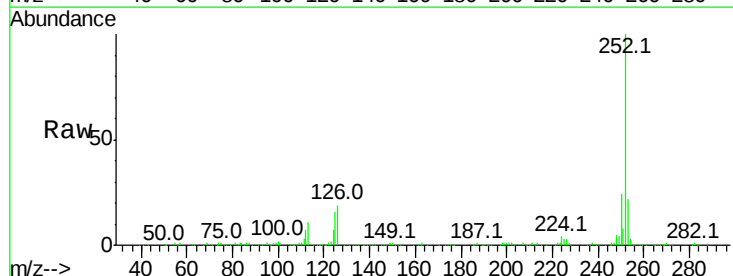
Instrument :
BNA_F
ClientSampled :

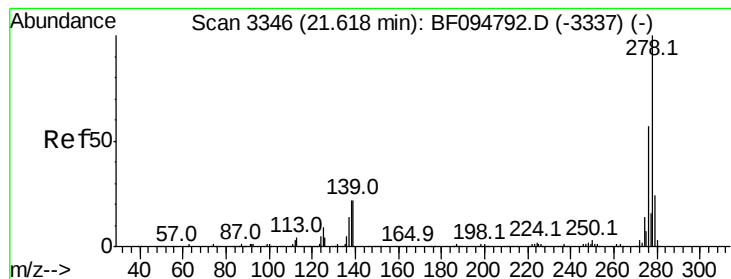
Tot Ion:252 Resp: 416818
Ion Ratio Lower Upper
252 100
253 22.2 18.4 27.6
125 14.6 13.1 19.7



#89
Benzo(a)pyrene
Concen: 20.27 ng
RT: 20.24 min Scan# 3112
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion:252 Resp: 228912
Ion Ratio Lower Upper
252 100
253 22.0 17.5 26.3
125 16.1 11.0 16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.11 ng

RT: 21.60 min Scan# 3343

Delta R.T. -0.02 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Instrument :

BNA_F

ClientSampleId :

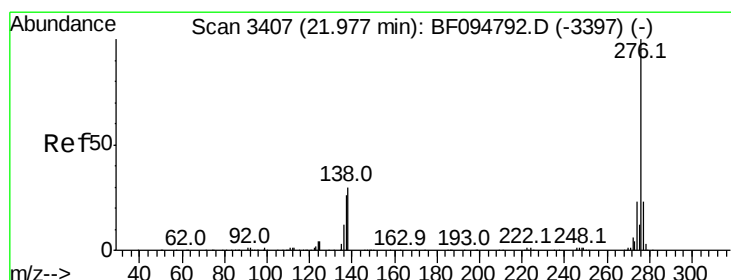
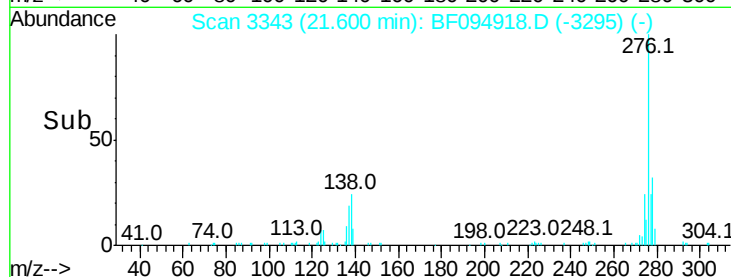
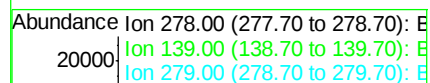
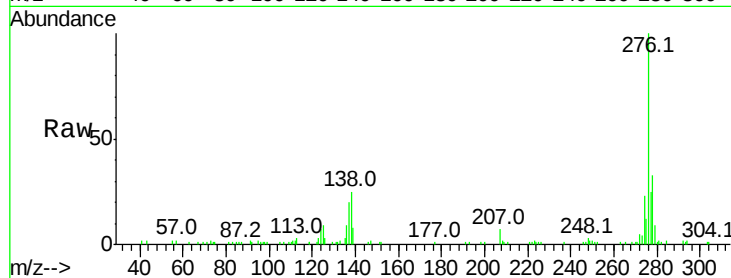
Tot Ion:278 Resp: 28973

Ion Ratio Lower Upper

278 100

139 22.8 16.6 24.8

279 27.9 19.3 28.9



#91

Benzo(g,h,i)perylene

Concen: 11.22 ng

RT: 21.96 min Scan# 3405

Delta R.T. -0.01 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Tgt Ion:276 Resp: 102654

Ion Ratio Lower Upper

276 100

277 23.3 18.6 28.0

138 30.9 25.4 38.0

