

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050317\
 Data File : BF094860.D
 Acq On : 4 May 2017 5:05
 Operator : SJ/MA
 Sample : I2936-17 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 04 06:00:37 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	88847	20.00	ng	-0.01
21) Naphthalene-d8	9.74	136	343968	20.00	ng	-0.01
38) Acenaphthene-d10	12.57	164	147377	20.00	ng	-0.01
63) Phenanthrene-d10	14.97	188	227280	20.00	ng	-0.01
75) Chrysene-d12	18.64	240	185175	20.00	ng	-0.01
86) Perylene-d12	20.31	264	145146	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.67	112	179153	33.62	ng	0.00
7) Phenol-d6	7.26	99	211179	33.03	ng	-0.02
23) Nitrobenzene-d5	8.61	82	121284	22.23	ng	-0.02
41) 2,4,6-Tribromophenol	13.87	330	36260	30.04	ng	-0.02
44) 2-Fluorobiphenyl	11.51	172	231760	22.63	ng	-0.02
78) Terphenyl-d14	17.29	244	155679	18.52	ng	-0.02

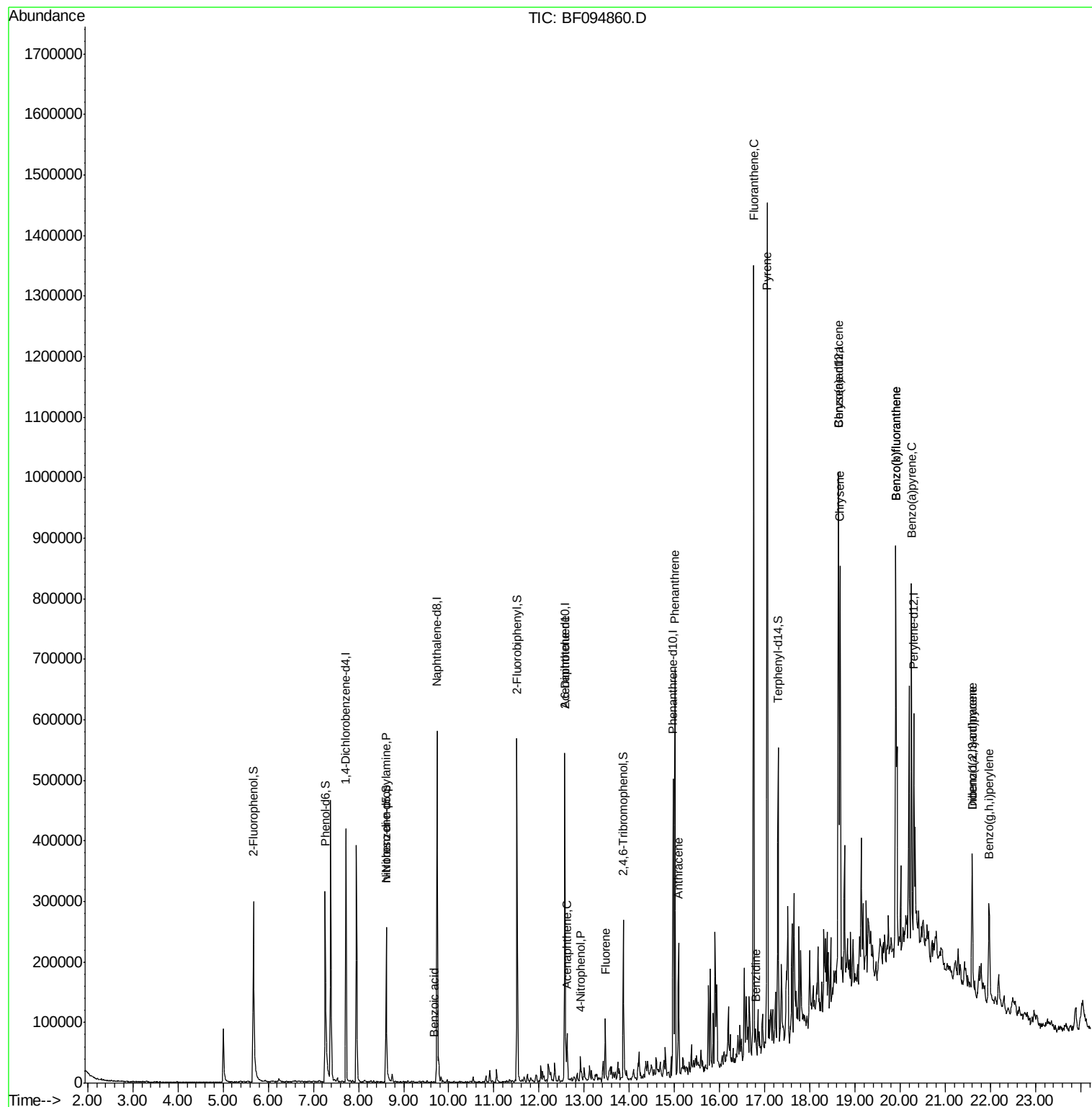
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	8.61	70	15337	3.55	ng	# 74
32) Benzoic acid	9.67	122	117	5.11	ng	# 49
50) 2,6-Dinitrotoluene	12.57	165	16766	6.79	ng	# 31
51) Acenaphthene	12.62	154	22464	2.40	ng	98
55) 4-Nitrophenol	12.91	139	8589	5.40	ng	# 29
57) Fluorene	13.47	166	34151	3.03	ng	98
70) Phenanthrene	15.01	178	335838	25.72	ng	99
71) Anthracene	15.09	178	113121	8.48	ng	99
74) Fluoranthene	16.75	202	640725	47.83	ng	99
76) Benzidine	16.82	184	154	6.62	ng	# 62
77) Pyrene	17.06	202	651760	47.06	ng	99
80) Benzo(a)anthracene	18.63	228	332190	30.82	ng	98
82) Chrysene	18.67	228	315010	30.23	ng	96
85) Indeno(1,2,3-cd)pyrene	21.59	276	112608	13.31	ng	95
87) Benzo(b)fluoranthene	19.91	252	495627	55.26	ng	# 97
88) Benzo(k)fluoranthene	19.91	252	495627	57.29	ng	98
89) Benzo(a)pyrene	20.25	252	257730	31.14	ng	97
90) Dibenzo(a,h)anthracene	21.60	278	34496	5.05	ng	# 73
91) Benzo(a,h,i)perylene	21.97	276	112901	16.83	ng	98

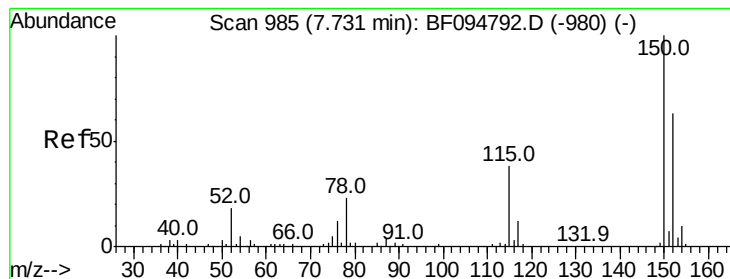
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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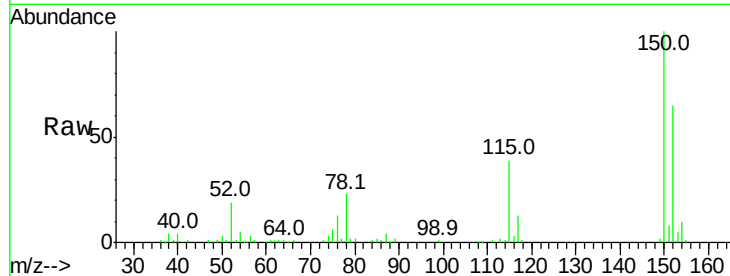


#1

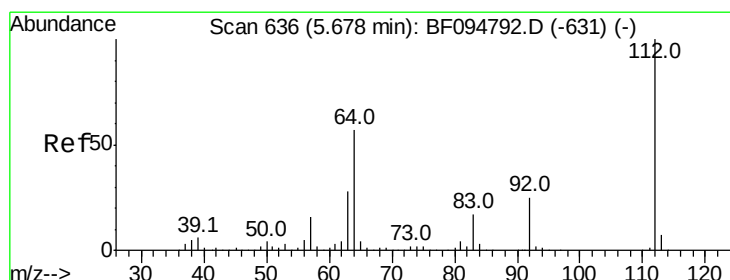
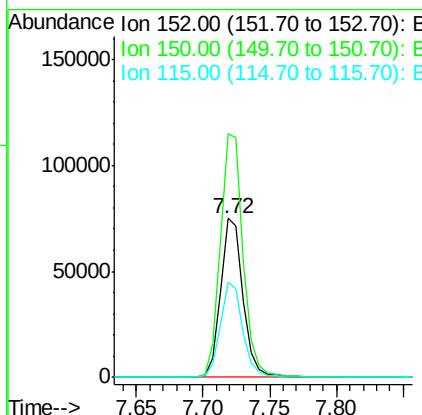
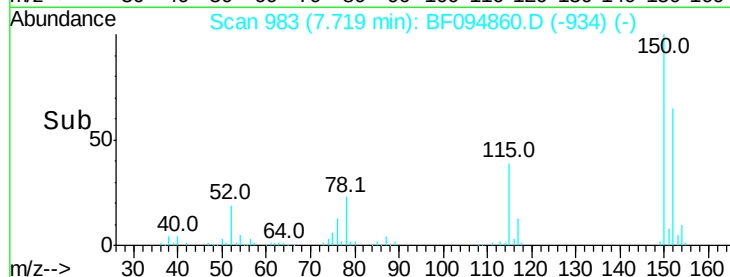
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.72 min Scan# 983
Delta R.T. -0.01 min
Lab File: BF094860.D
Acq: 4 May 2017 5:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 88847
Ion Ratio Lower Upper
152 100
150 153.6 126.2 189.2
115 60.3 52.2 78.2



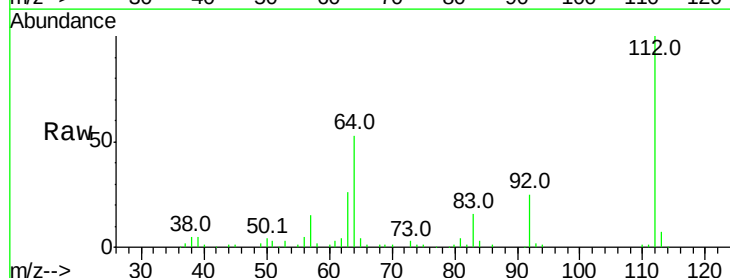
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



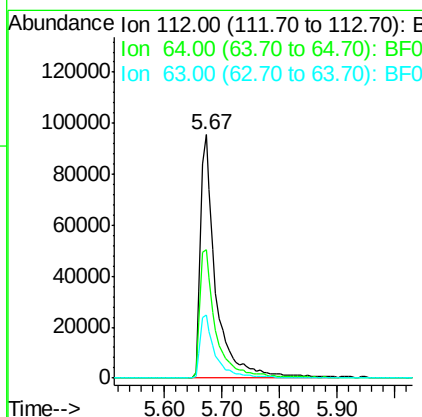
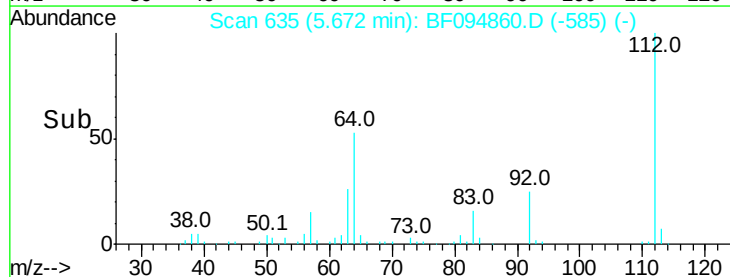
#5

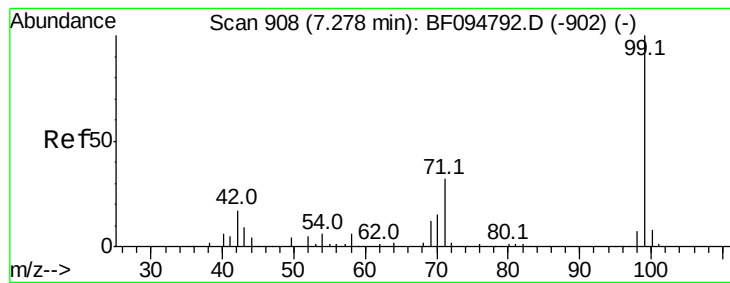
2-Fluorophenol
Concen: 33.62 ng
RT: 5.67 min Scan# 635
Delta R.T. -0.01 min
Lab File: BF094860.D
Acq: 4 May 2017 5:05

Tgt Ion:112 Resp: 179153
Ion Ratio Lower Upper
112 100
64 52.8 46.0 69.0
63 26.1 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: 33.03 ng

RT: 7.26 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF094860.D

Acq: 4 May 2017 5:05

Instrument :

BNA_F

ClientSampled :

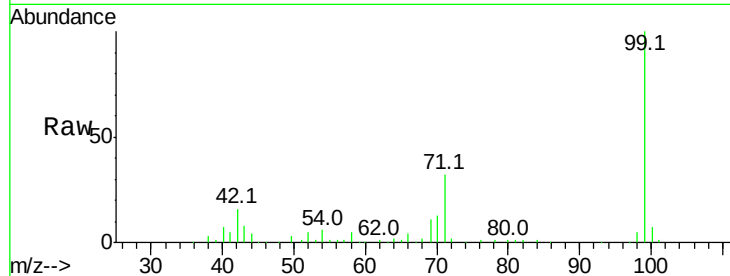
Tot Ion: 99 Resp: 211179

Ion Ratio Lower Upper

99 100

42 15.7 13.5 20.3

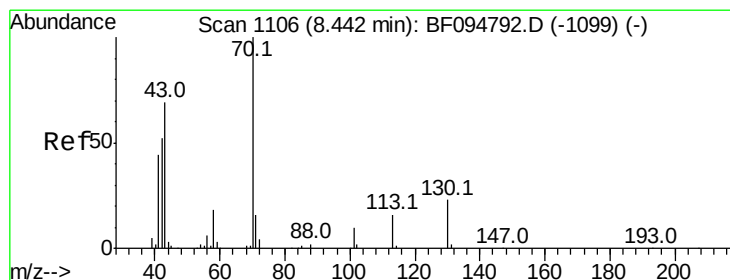
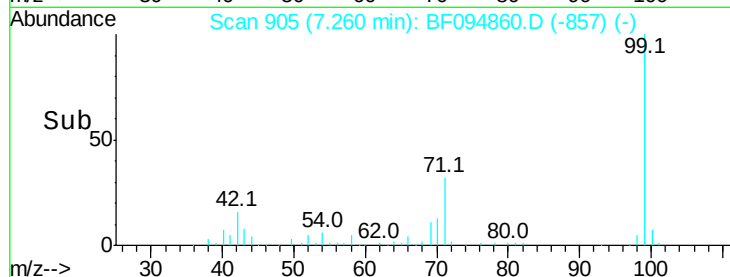
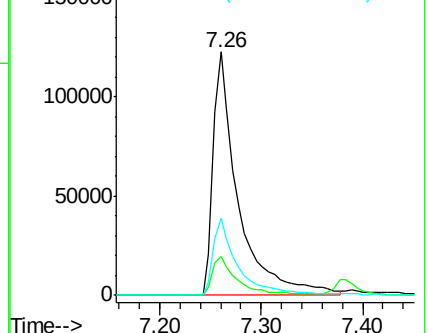
71 31.9 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 3.55 ng

RT: 8.61 min Scan# 1135

Delta R.T. 0.17 min

Lab File: BF094860.D

Acq: 4 May 2017 5:05

Tgt Ion: 70 Resp: 15337

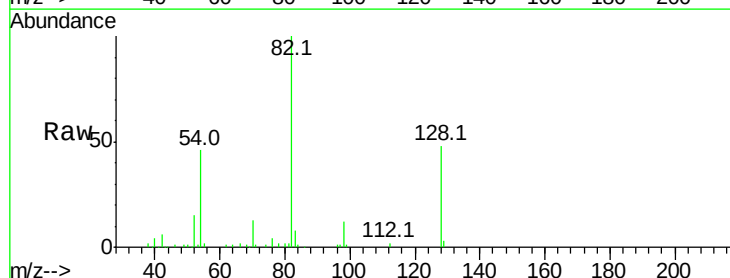
Ion Ratio Lower Upper

70 100

42 44.0 47.2 70.8#

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#

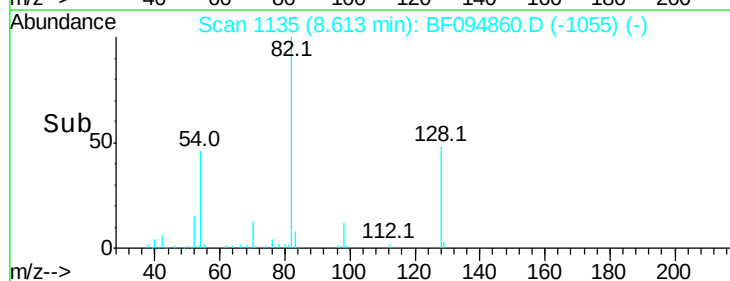
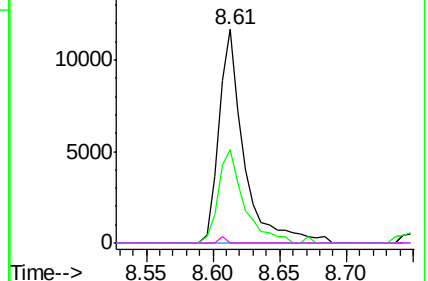


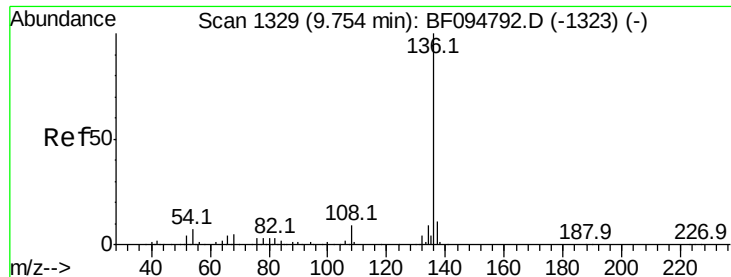
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

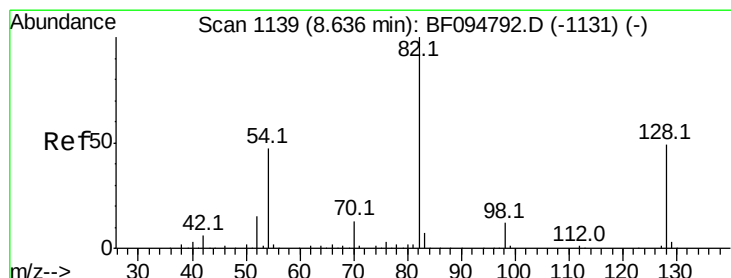
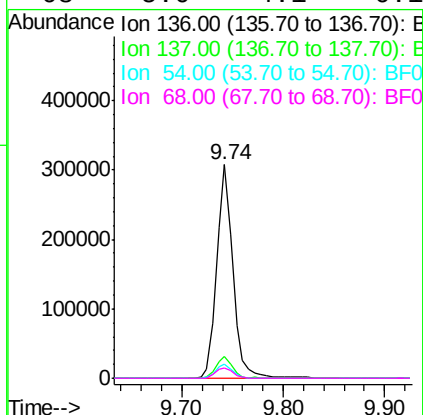
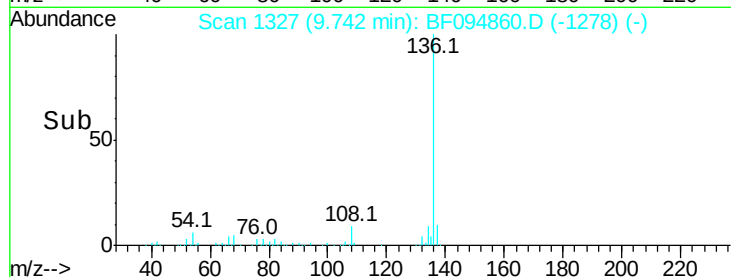
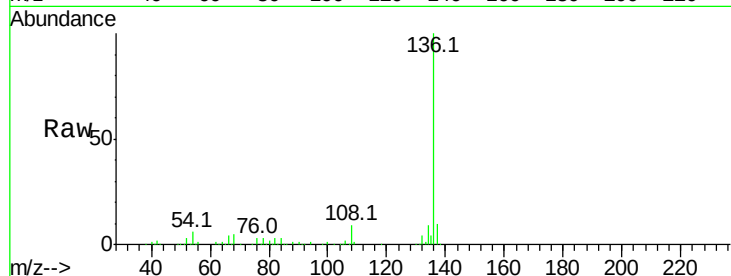




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.74 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF094860.D
Acq: 4 May 2017 5:05

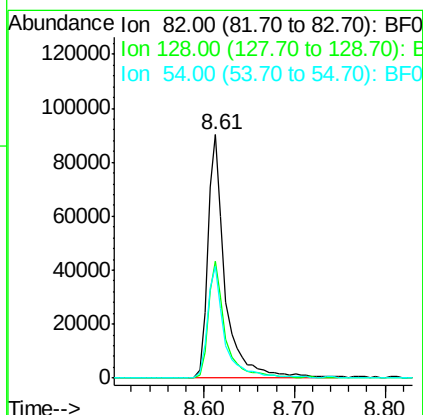
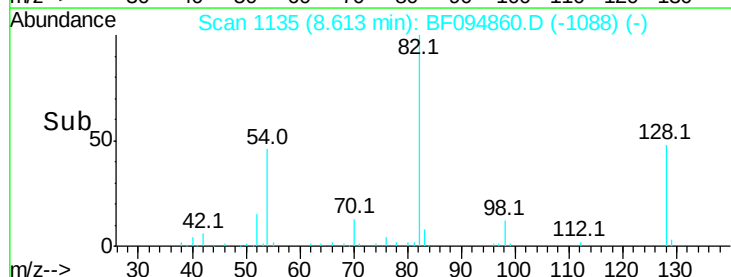
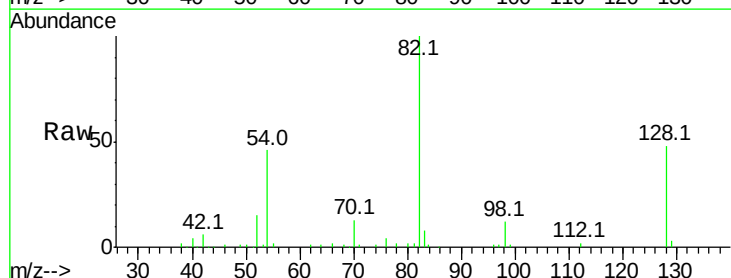
Instrument :
BNA_F
ClientSampleId :

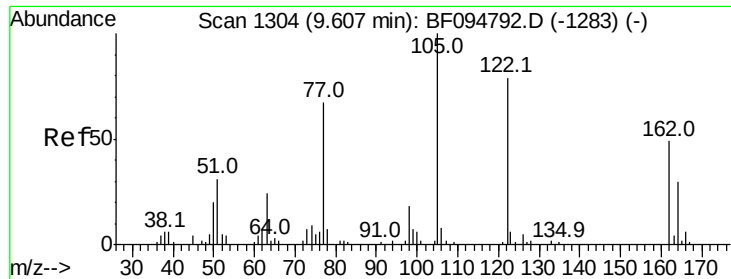
Tot Ion:136	Resp:	343968
Ion Ratio	Lower	Upper
136	100	
137	10.3	8.5 12.7
54	6.4	4.9 7.3
68	5.0	4.1 6.1



#23
Nitrobenzene-d5
Concen: 22.23 ng
RT: 8.61 min Scan# 1135
Delta R.T. -0.02 min
Lab File: BF094860.D
Acq: 4 May 2017 5:05

Tgt Ion: 82	Resp:	121284
Ion Ratio	Lower	Upper
82	100	
128	48.1	34.0 51.0
54	46.1	42.2 63.2





#32

Benzoic acid

Concen: 5.11 ng

RT: 9.67 min Scan# 1314

Delta R.T. 0.06 min

Lab File: BF094860.D

Acq: 4 May 2017 5:05

Instrument :

BNA_F

ClientSampleId :

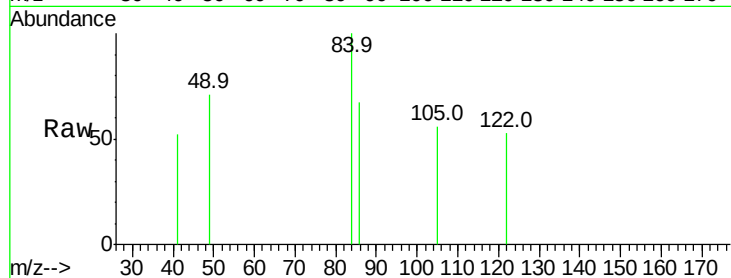
Tot Ion:122 Resp: 117

Ion Ratio Lower Upper

122 100

105 105.1 103.3 143.3

77 0.0 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

400

300

200

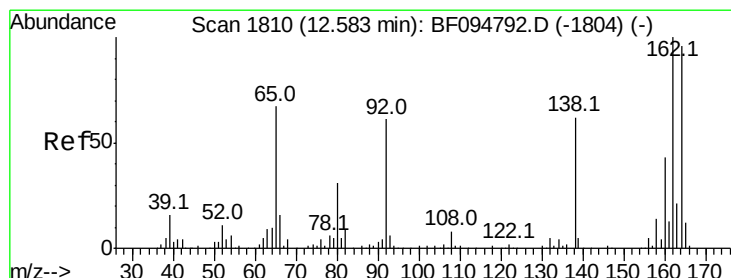
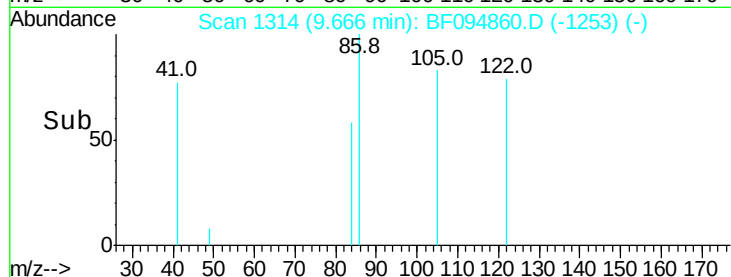
100

0

9.65 9.66 9.67 9.68

9.67

Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.57 min Scan# 1808

Delta R.T. -0.01 min

Lab File: BF094860.D

Acq: 4 May 2017 5:05

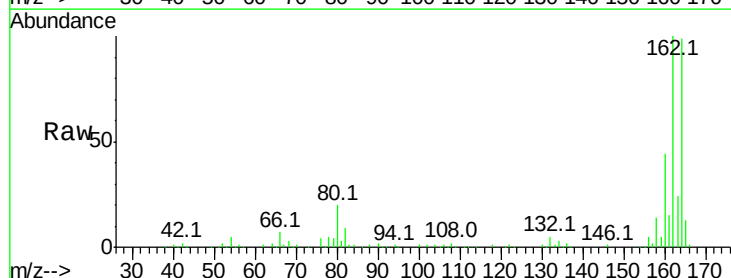
Tgt Ion:164 Resp: 147377

Ion Ratio Lower Upper

164 100

162 101.2 82.6 123.8

160 44.5 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

150000

100000

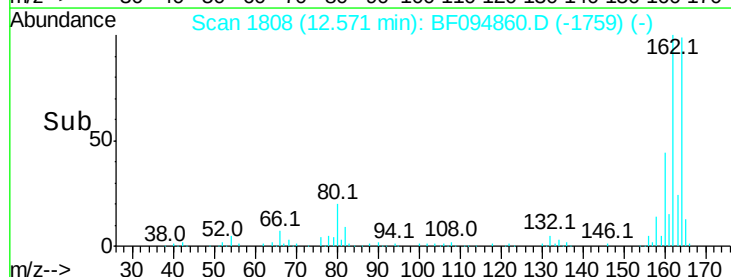
50000

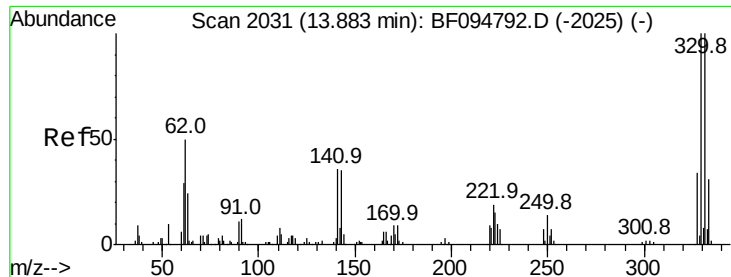
0

12.55 12.56 12.57 12.58

12.57

Time-->

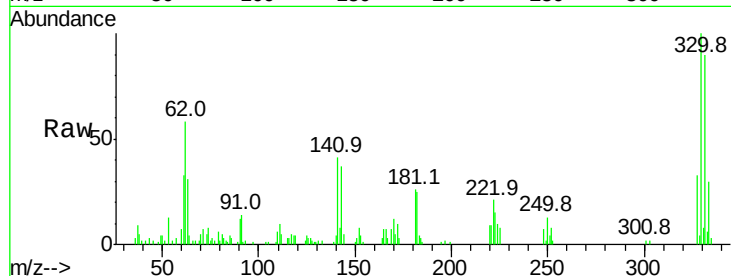




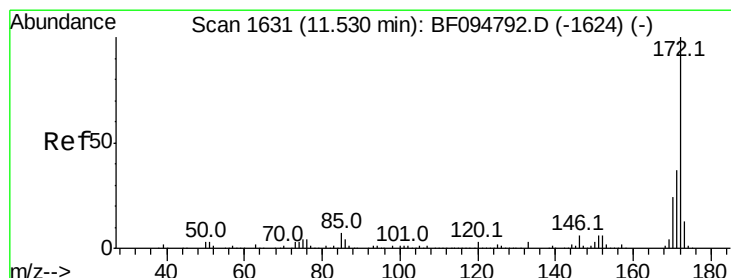
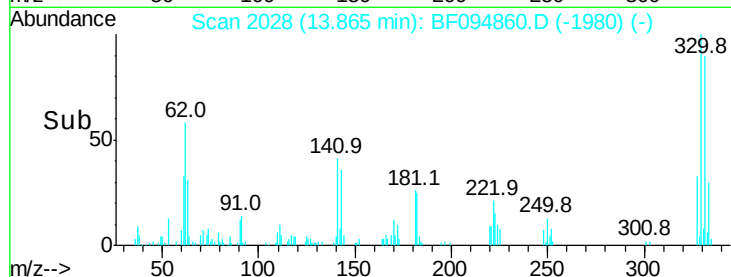
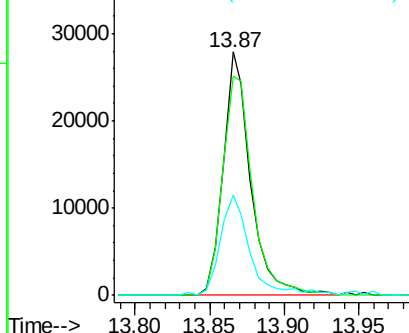
#41
 2,4,6-Tribromophenol
 Concen: 30.04 ng
 RT: 13.87 min Scan# 2028
 Delta R.T. -0.02 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 36260
 Ion Ratio Lower Upper
 330 100
 332 98.7 76.6 115.0
 141 44.8 31.4 47.2

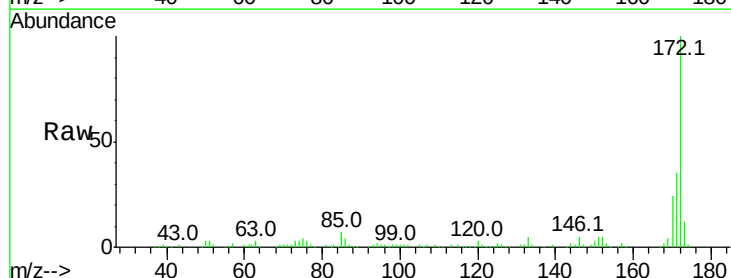


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

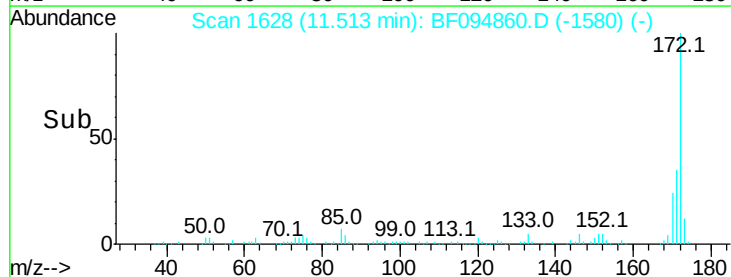
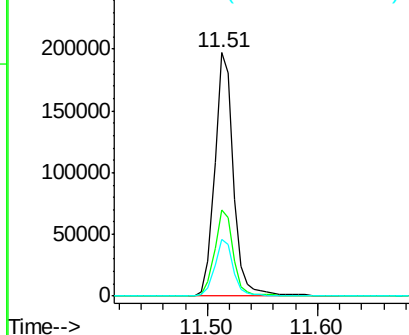


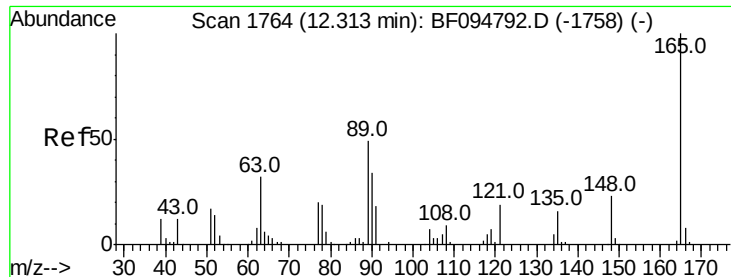
#44
 2-Fluorobiphenyl
 Concen: 22.63 ng
 RT: 11.51 min Scan# 1628
 Delta R.T. -0.02 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

Tgt Ion:172 Resp: 231760
 Ion Ratio Lower Upper
 172 100
 171 35.3 29.6 44.4
 170 23.6 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

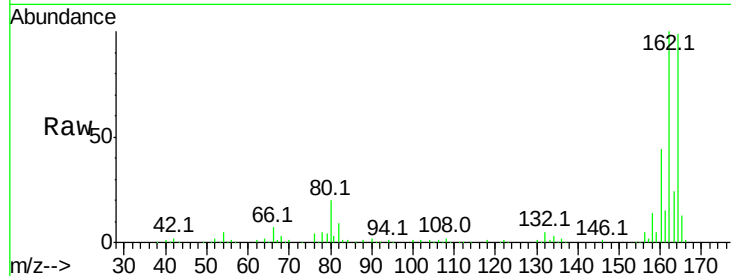




#50
 2,6-Dinitrotoluene
 Concen: 6.79 ng
 RT: 12.57 min Scan# 1808
 Delta R.T. 0.26 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

Instrument :
 BNA_F
 ClientSampleId :

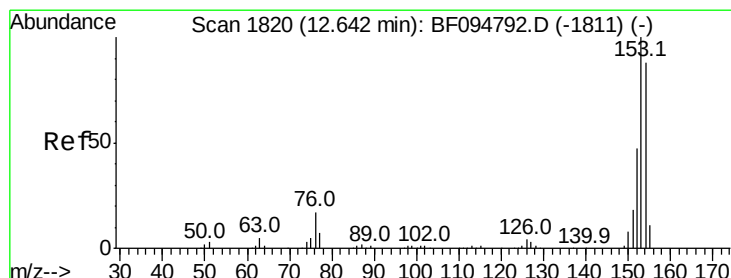
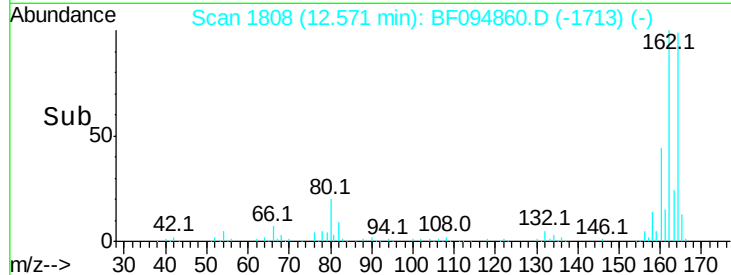
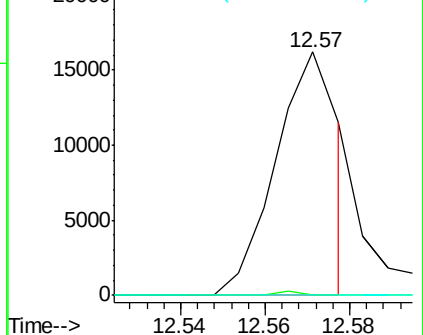
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#



Abundance Ion 165.00 (164.70 to 165.70): E

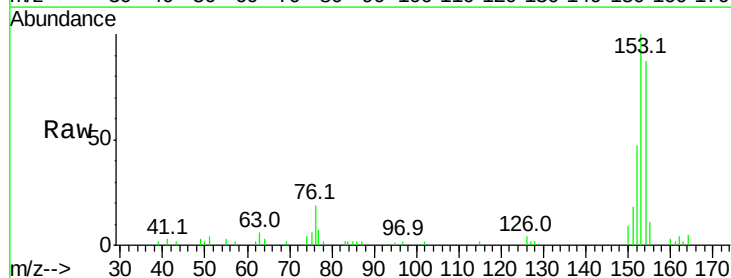
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#51
 Acenaphthene
 Concen: 2.40 ng
 RT: 12.62 min Scan# 1817
 Delta R.T. -0.02 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

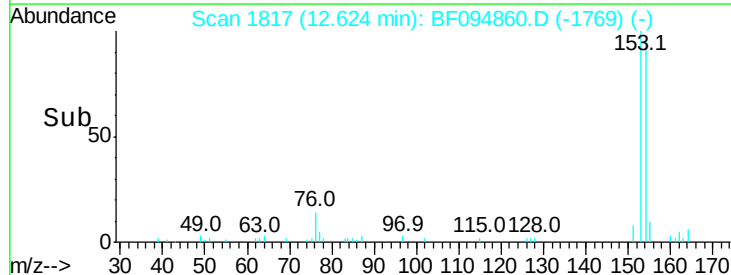
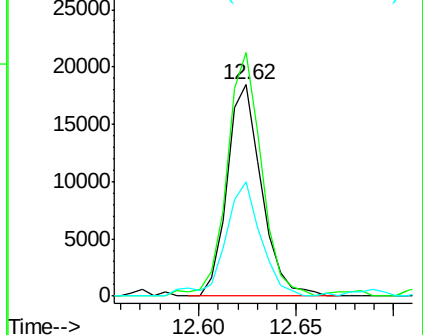
Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.4	90.5	135.7
152	54.3	43.6	65.4

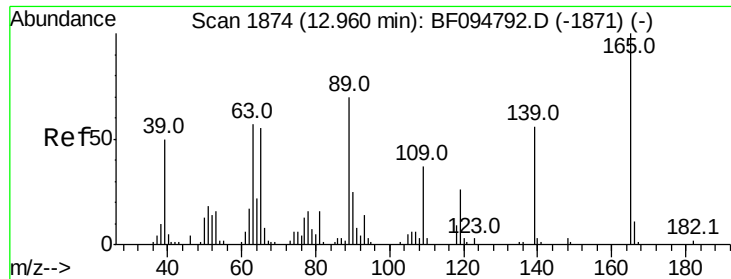


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

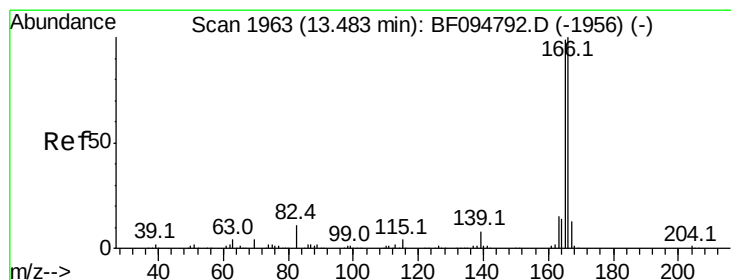
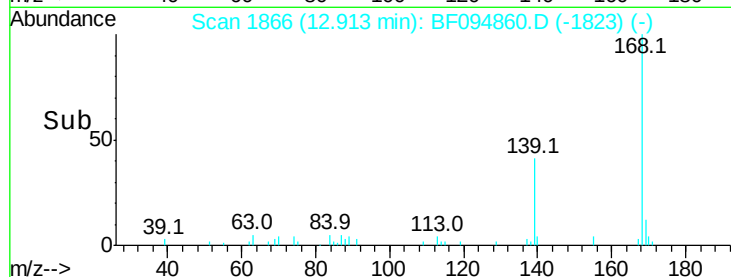
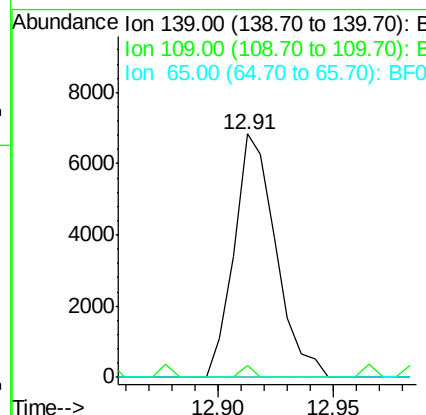
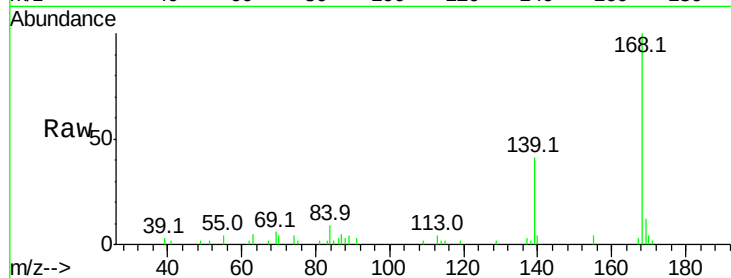




#55
4-Nitrophenol
Concen: 5.40 ng
RT: 12.91 min Scan# 1866
Delta R.T. -0.05 min
Lab File: BF094860.D
Acq: 4 May 2017 5:05

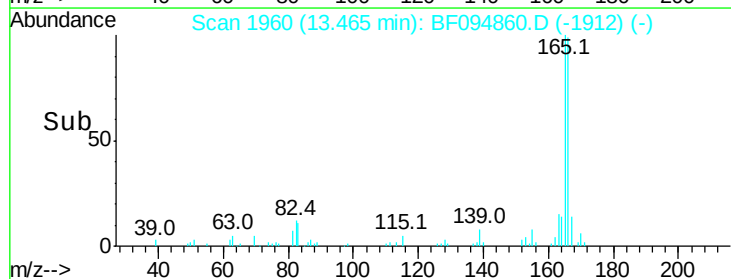
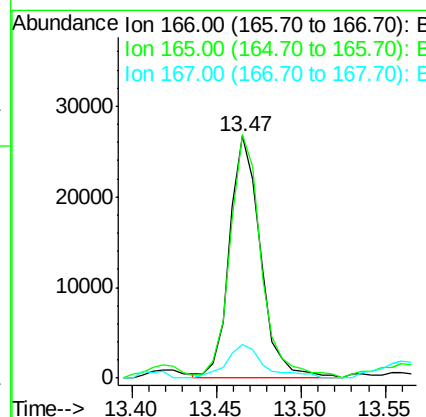
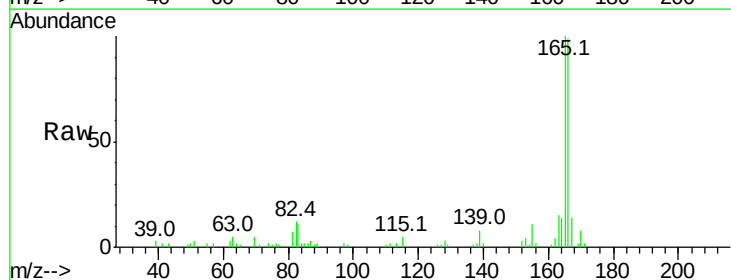
Instrument :
BNA_F
ClientSampled :

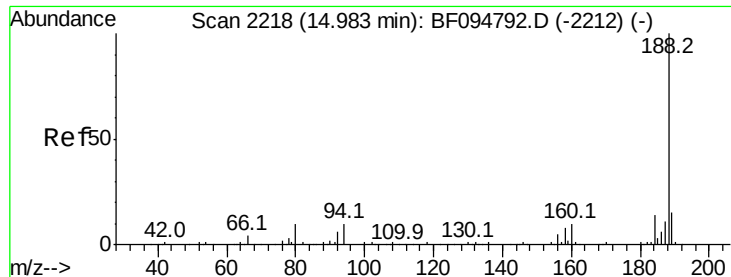
Tot Ion:139 Resp: 8589
Ion Ratio Lower Upper
139 100
109 4.9 34.1 74.1#
65 0.0 31.4 71.4#



#57
Fluorene
Concen: 3.03 ng
RT: 13.47 min Scan# 1960
Delta R.T. -0.02 min
Lab File: BF094860.D
Acq: 4 May 2017 5:05

Tgt Ion:166 Resp: 34151
Ion Ratio Lower Upper
166 100
165 100.5 78.8 118.2
167 14.2 10.6 16.0

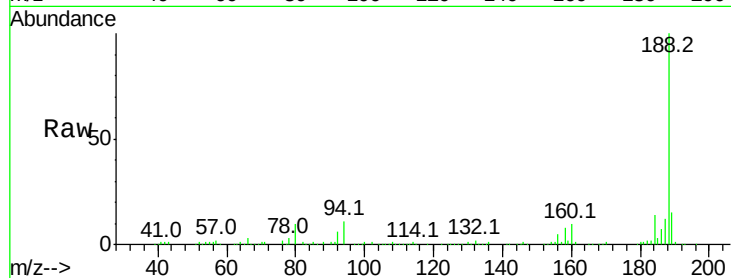




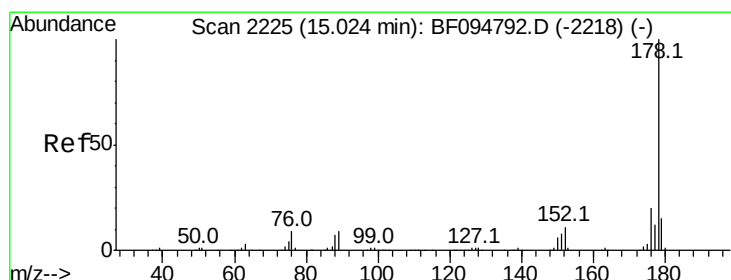
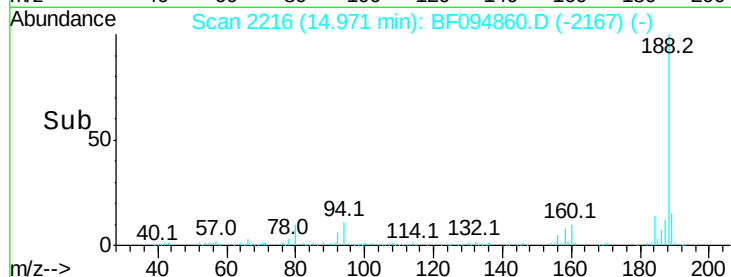
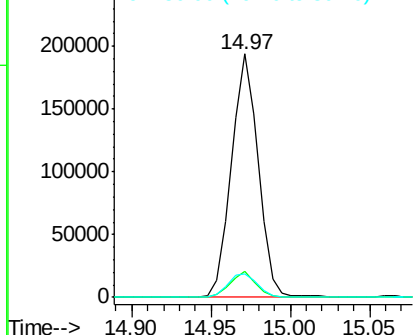
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.97 min Scan# 2216
 Delta R.T. -0.01 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

Instrument :
 BNA_F
 ClientSampleID :

Tot Ion:188 Resp: 227280
 Ion Ratio Lower Upper
 188 100
 94 10.5 9.4 14.2
 80 9.7 10.2 15.2#

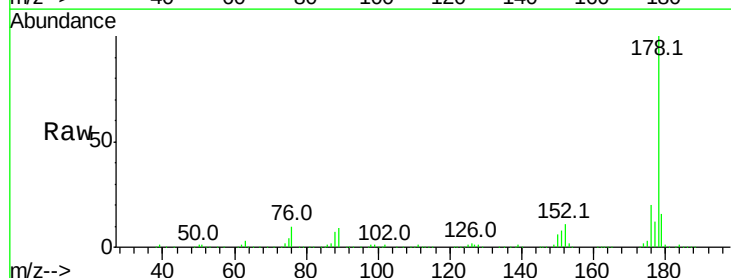


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

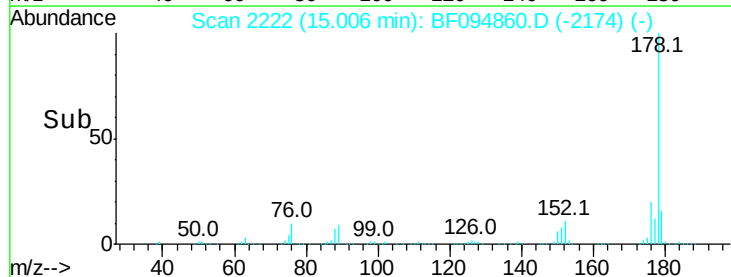
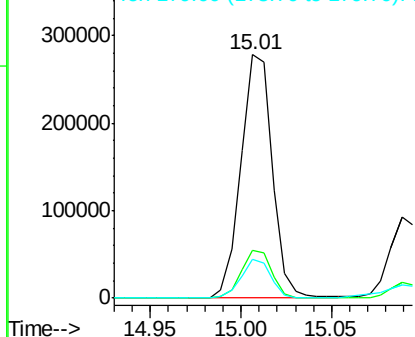


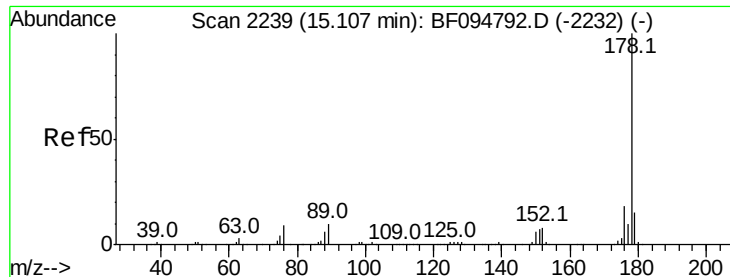
#70
 Phenanthrene
 Concen: 25.72 ng
 RT: 15.01 min Scan# 2222
 Delta R.T. -0.02 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

Tgt Ion:178 Resp: 335838
 Ion Ratio Lower Upper
 178 100
 176 19.6 16.2 24.4
 179 16.1 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

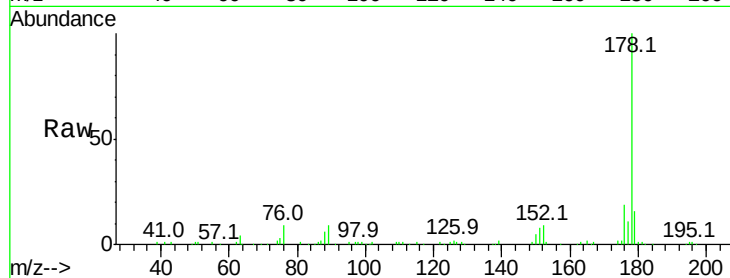




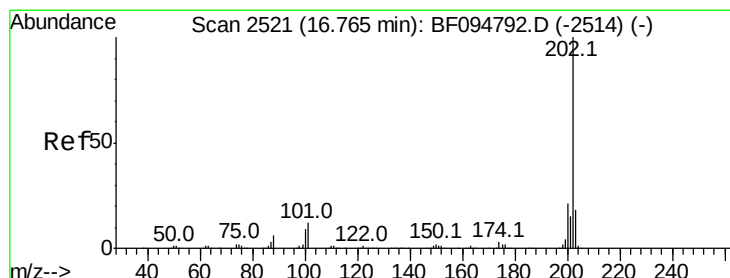
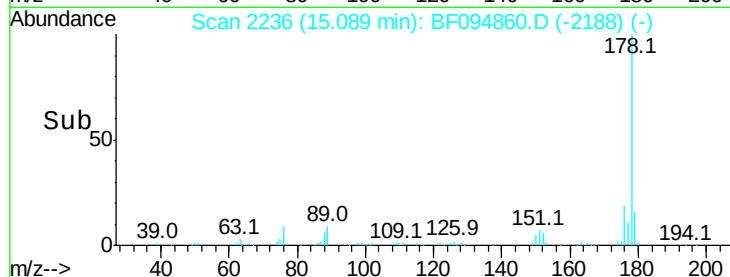
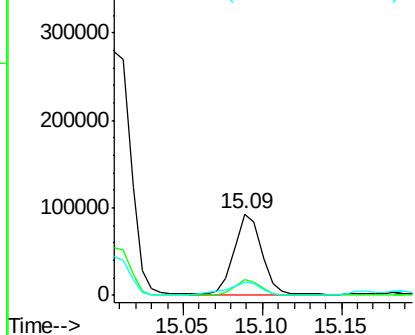
#71
 Anthracene
 Concen: 8.48 ng
 RT: 15.09 min Scan# 2236
 Delta R.T. -0.02 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 113121
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.8 23.8
 179 16.4 12.7 19.1

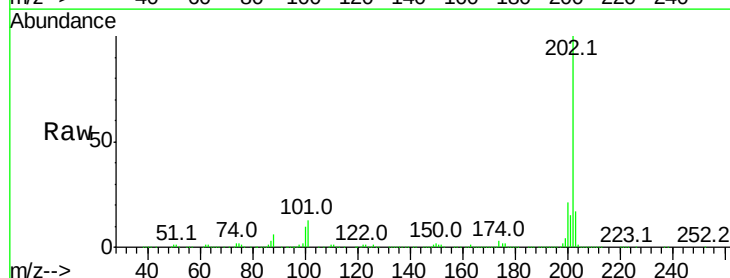


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

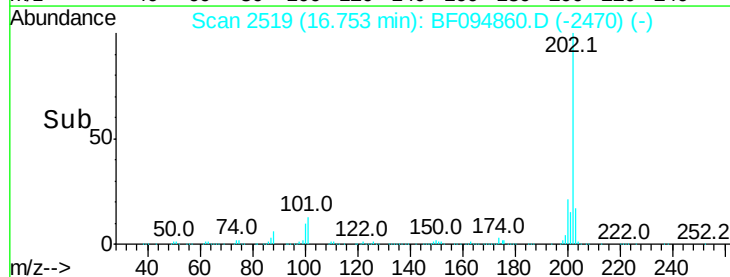
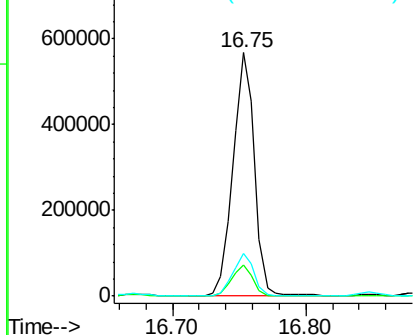


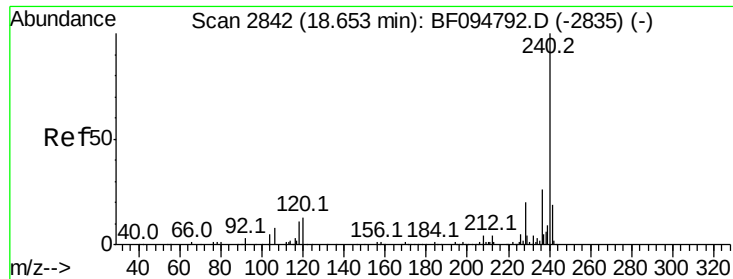
#74
 Fluoranthene
 Concen: 47.83 ng
 RT: 16.75 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

Tgt Ion:202 Resp: 640725
 Ion Ratio Lower Upper
 202 100
 101 12.9 0.0 33.2
 203 17.3 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# 2840

Delta R.T. -0.01 min

Lab File: BF094860.D

Acq: 4 May 2017 5:05

Instrument :

BNA_F

ClientSampleId :

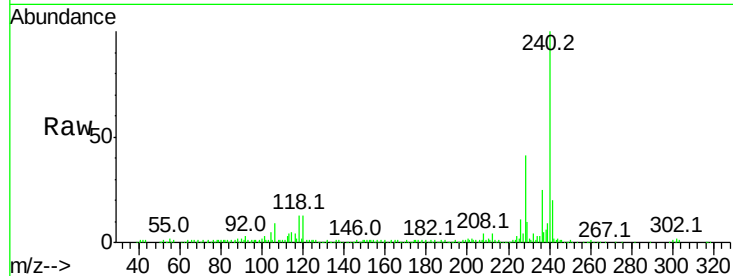
Tot Ion:240 Resp: 185175

Ion Ratio Lower Upper

240 100

120 13.4 5.8 8.8#

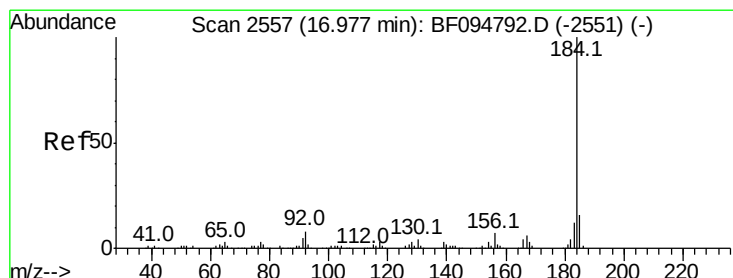
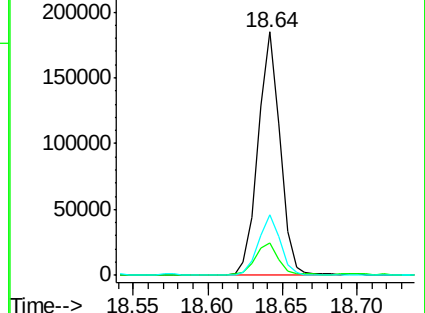
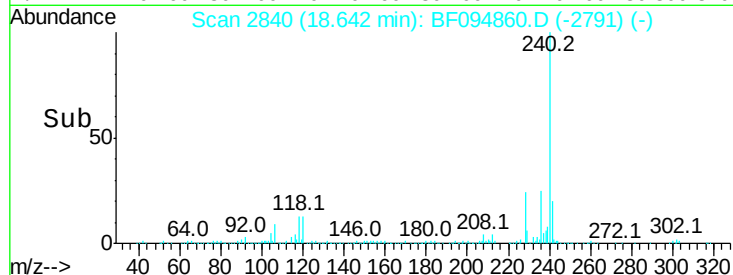
236 24.8 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 6.62 ng

RT: 16.82 min Scan# 2530

Delta R.T. -0.16 min

Lab File: BF094860.D

Acq: 4 May 2017 5:05

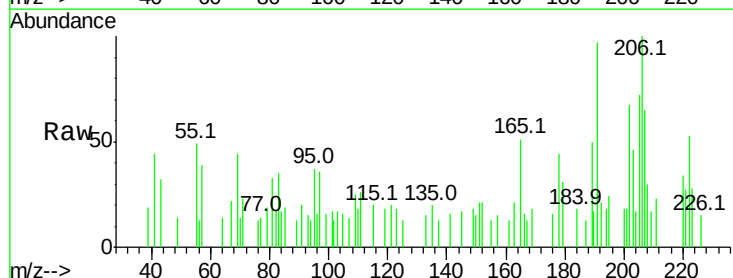
Tgt Ion:184 Resp: 154

Ion Ratio Lower Upper

184 100

185 0.0 15.5 23.3#

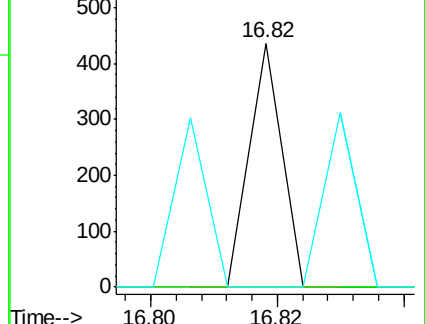
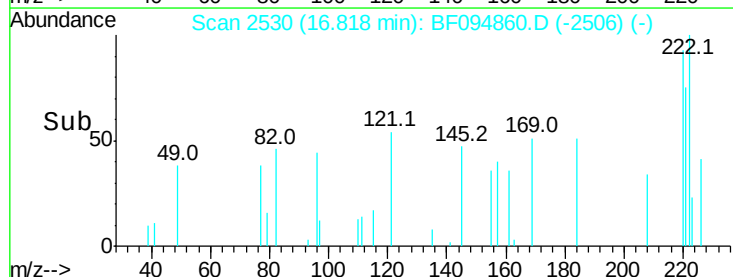
183 0.0 9.8 14.6#

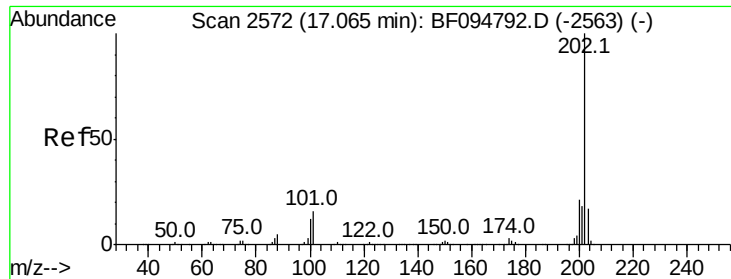


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

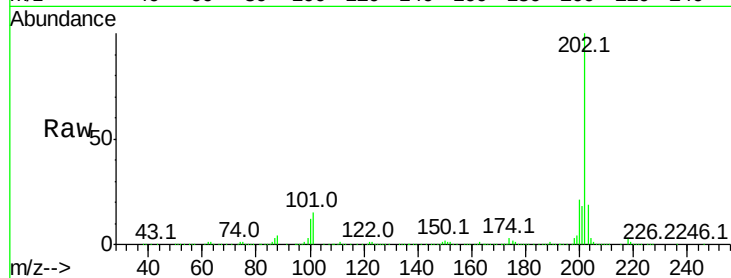




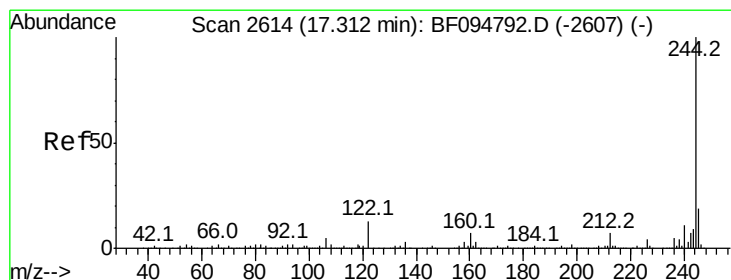
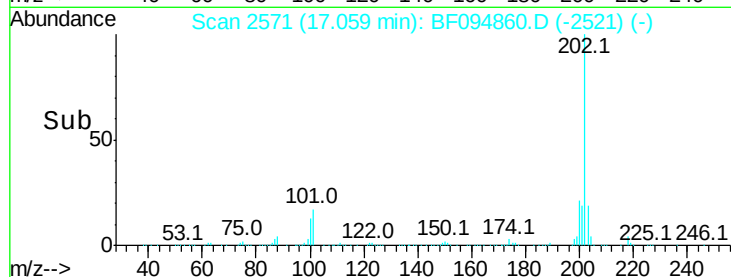
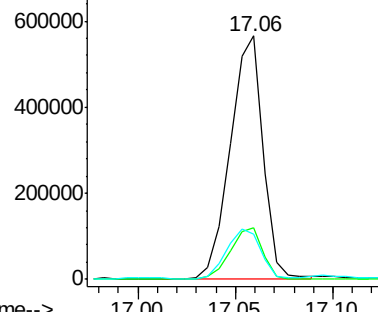
#77
Pvrene
Concen: 47.06 ng
RT: 17.06 min Scan# 2571
Delta R.T. -0.01 min
Lab File: BF094860.D
Acq: 4 May 2017 5:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 651760
Ion Ratio Lower Upper
202 100
200 21.4 17.6 26.4
203 18.5 14.4 21.6

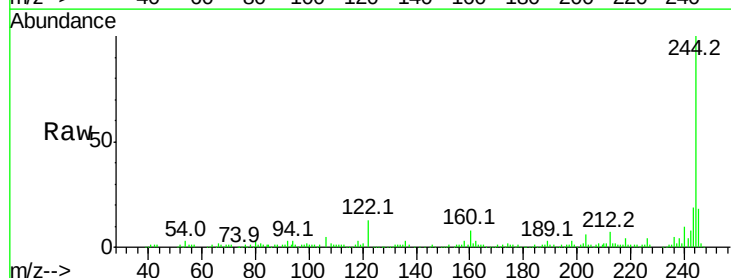


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

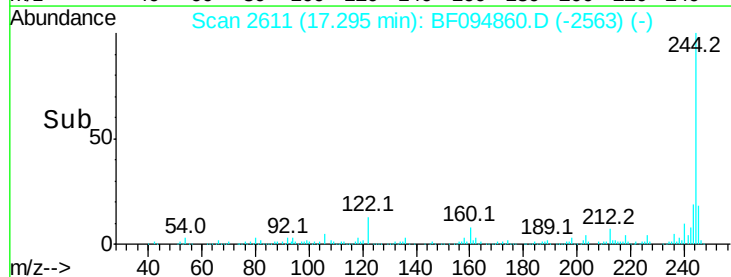
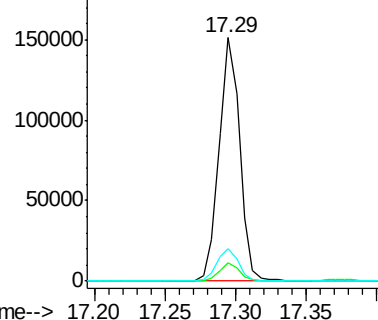


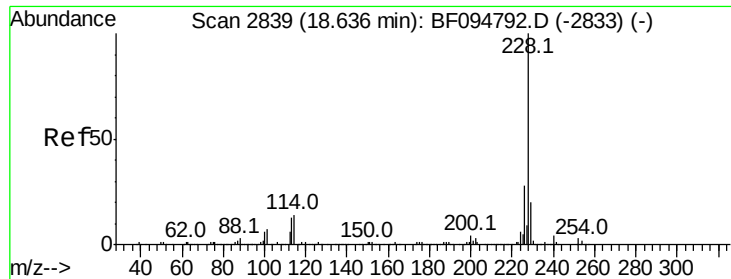
#78
Terphenyl-d14
Concen: 18.52 ng
RT: 17.29 min Scan# 2611
Delta R.T. -0.02 min
Lab File: BF094860.D
Acq: 4 May 2017 5:05

Tgt Ion:244 Resp: 155679
Ion Ratio Lower Upper
244 100
212 7.3 6.0 9.0
122 13.1 10.3 15.5



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





#80

Benzo(a)anthracene

Concen: 30.82 ng

RT: 18.63 min Scan# 2838

Delta R.T. -0.01 min

Lab File: BF094860.D

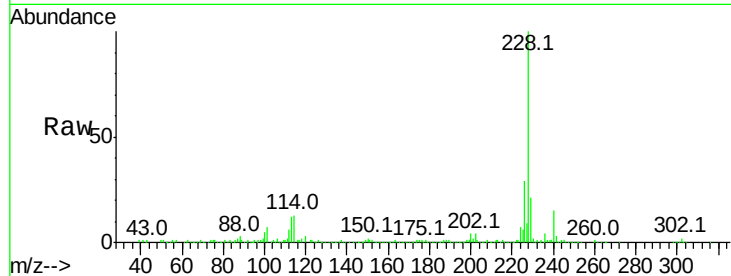
Acq: 4 May 2017 5:05

Instrument :

BNA_F

ClientSampleId :

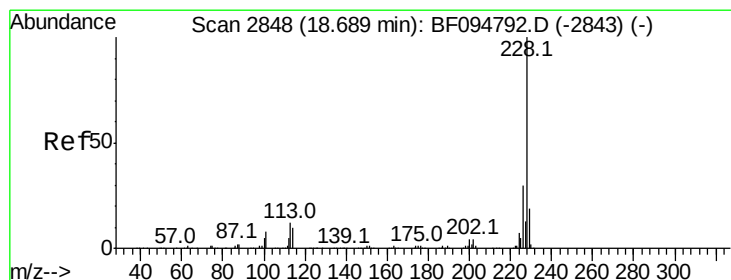
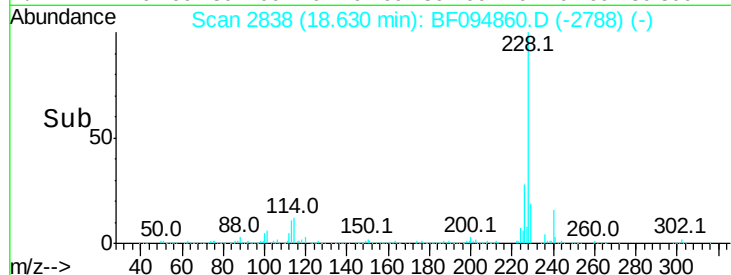
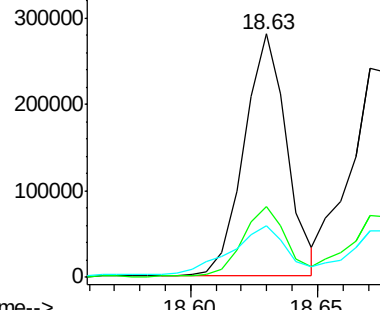
Tot Ion:	228	Resp:	332190
Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.6	33.8
229	21.3	16.3	24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 30.23 ng

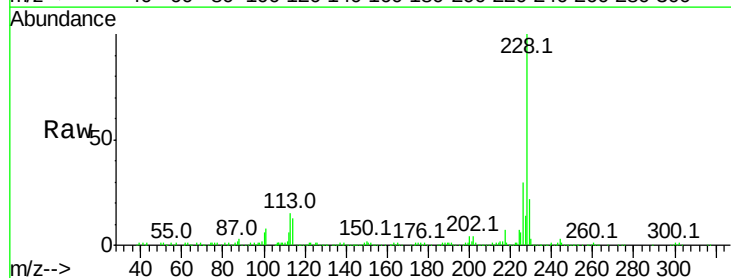
RT: 18.67 min Scan# 2845

Delta R.T. -0.02 min

Lab File: BF094860.D

Acq: 4 May 2017 5:05

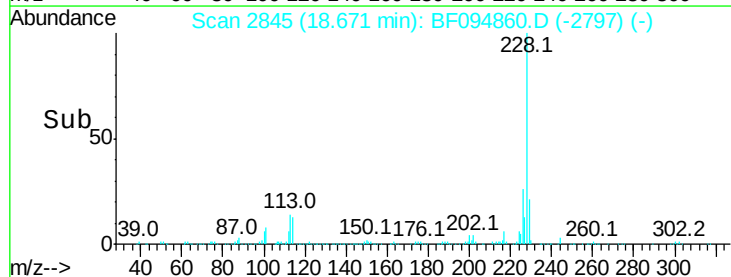
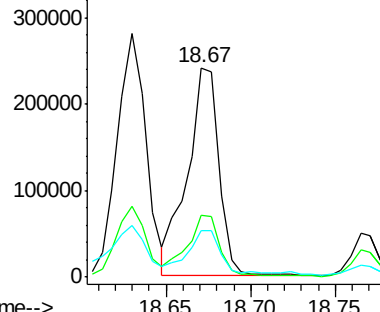
Tgt Ion:	228	Resp:	315010
Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.9	37.3
229	22.1	15.8	23.6

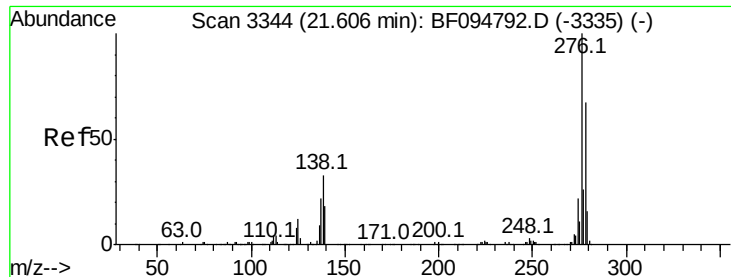


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

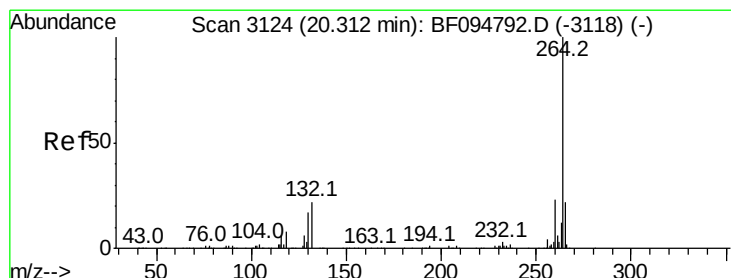
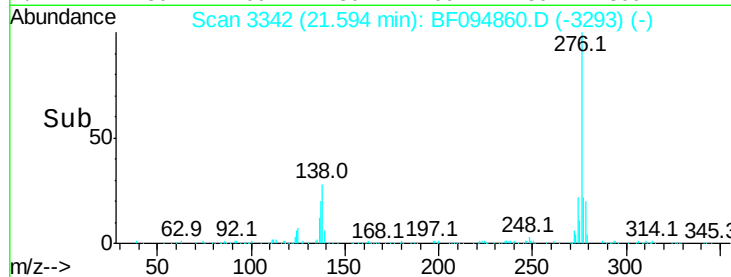
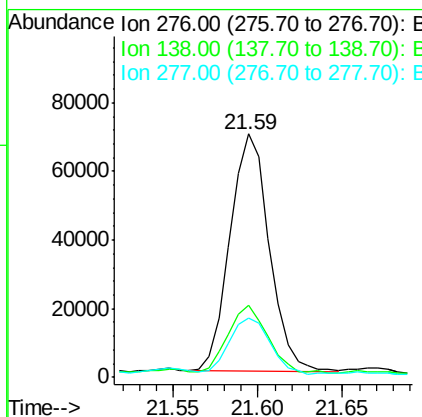
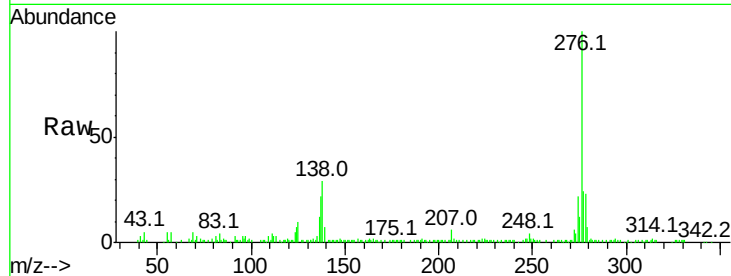




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.31 ng
 RT: 21.59 min Scan# 3342
 Delta R.T. -0.01 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

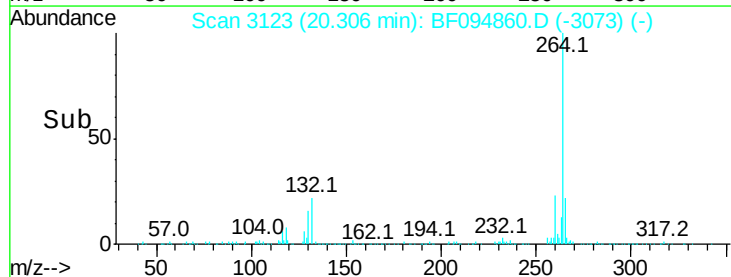
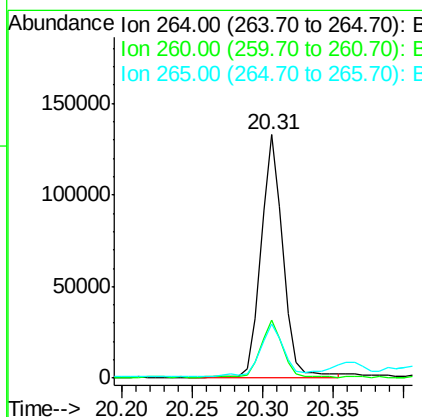
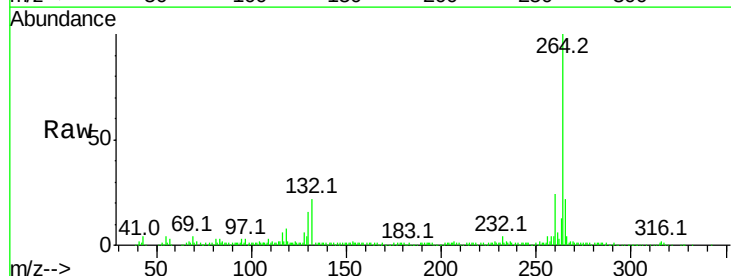
Instrument :
 BNA_F
 ClientSampled :

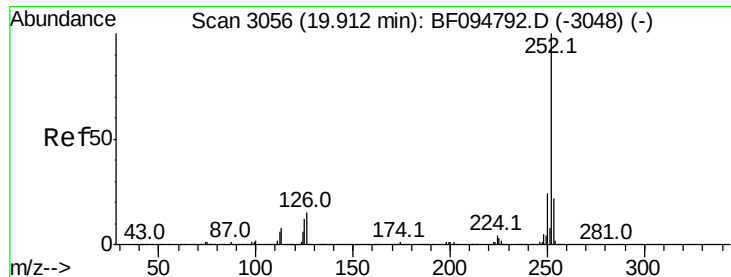
Tot Ion:276 Resp: 112608
 Ion Ratio Lower Upper
 276 100
 138 29.9 27.8 41.6
 277 25.4 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.31 min Scan# 3123
 Delta R.T. -0.01 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

Tgt Ion:264 Resp: 145146
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.5 29.3
 265 22.2 17.2 25.8

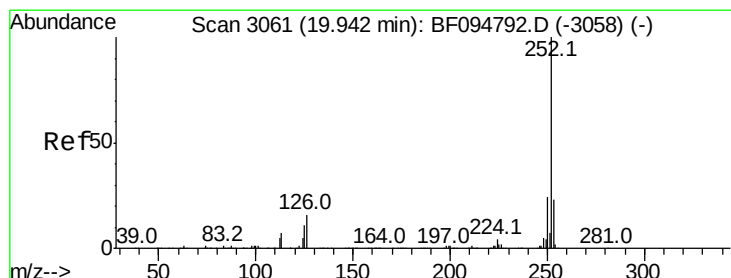
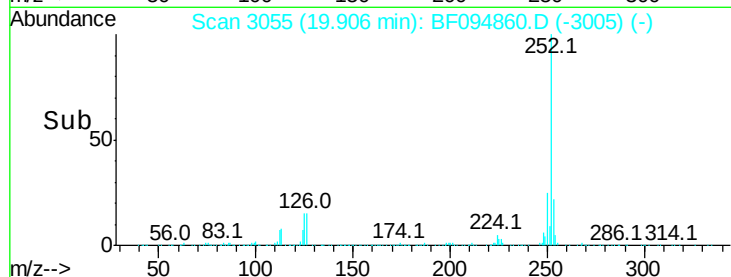
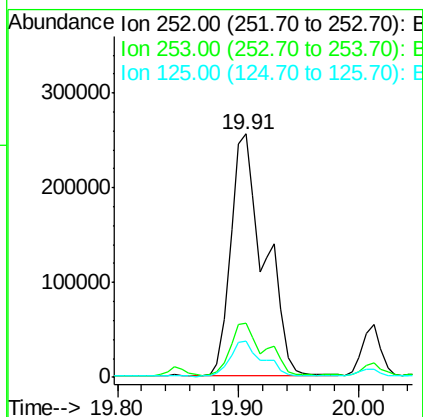
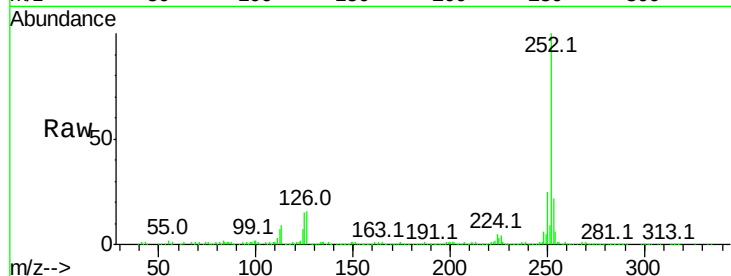




#87
Benzo(b)fluoranthene
Concen: 55.26 ng
RT: 19.91 min Scan# 3055
Delta R.T. -0.01 min
Lab File: BF094860.D
Acq: 4 May 2017 5:05

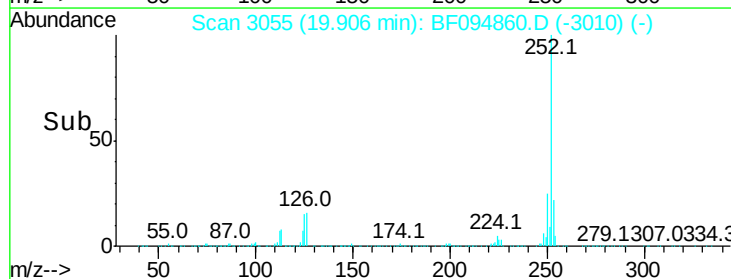
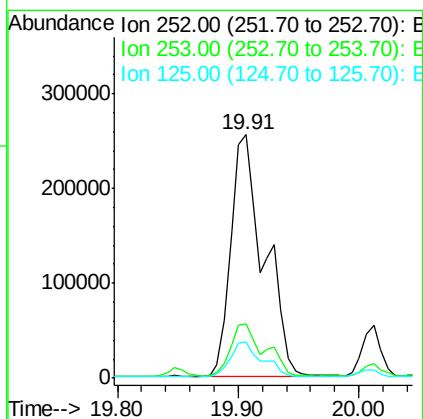
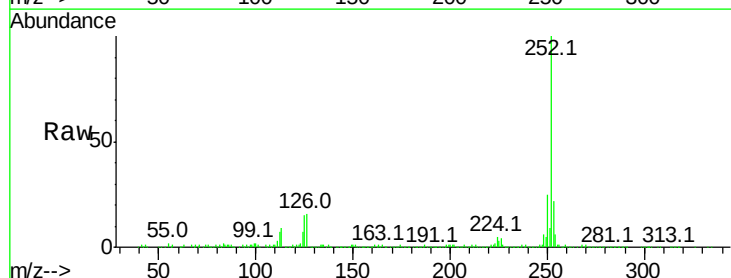
Instrument :
BNA_F
ClientSampleId :

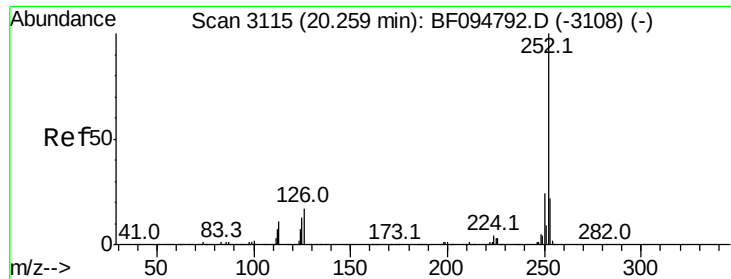
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	15.1	9.8	14.8



#88
Benzo(k)fluoranthene
Concen: 57.29 ng
RT: 19.91 min Scan# 3055
Delta R.T. -0.04 min
Lab File: BF094860.D
Acq: 4 May 2017 5:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.4	27.6
125	15.1	13.1	19.7





#89

Benzo(a)pyrene

Concen: 31.14 ng

RT: 20.25 min Scan# 3114

Delta R.T. -0.01 min

Lab File: BF094860.D

Acq: 4 May 2017 5:05

Instrument :

BNA_F

ClientSampleId :

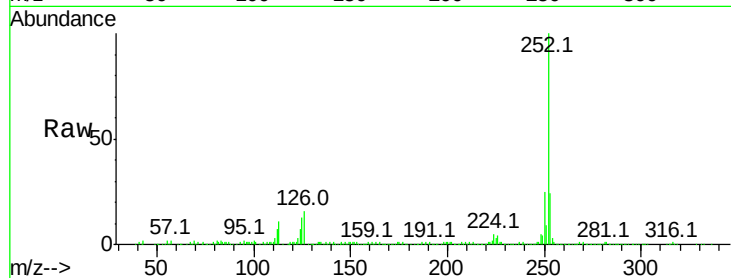
Tot Ion:252 Resp: 257730

Ion Ratio Lower Upper

252 100

253 24.2 17.5 26.3

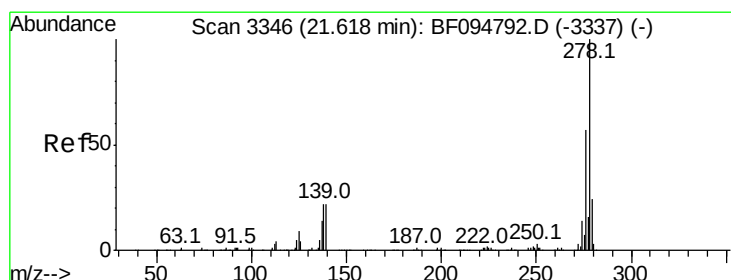
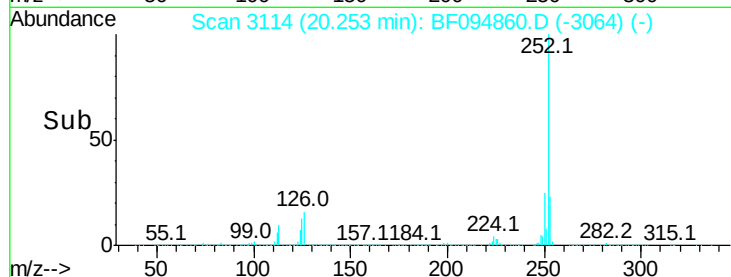
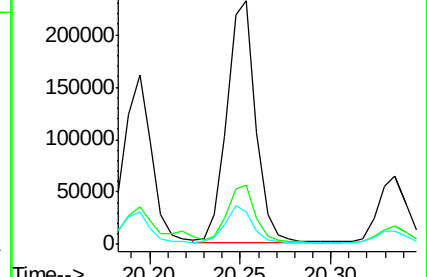
125 13.2 11.0 16.4



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



#90

Dibenzo(a,h)anthracene

Concen: 5.05 ng

RT: 21.60 min Scan# 3343

Delta R.T. -0.02 min

Lab File: BF094860.D

Acq: 4 May 2017 5:05

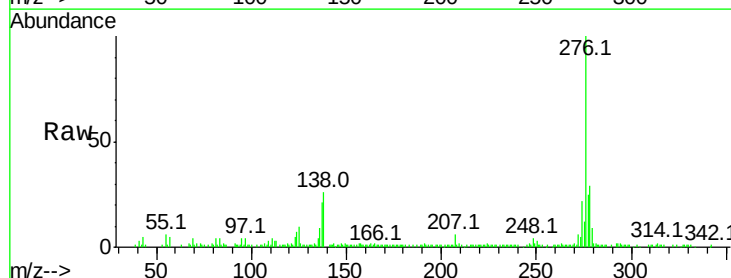
Tgt Ion:278 Resp: 34496

Ion Ratio Lower Upper

278 100

139 0.0 16.6 24.8#

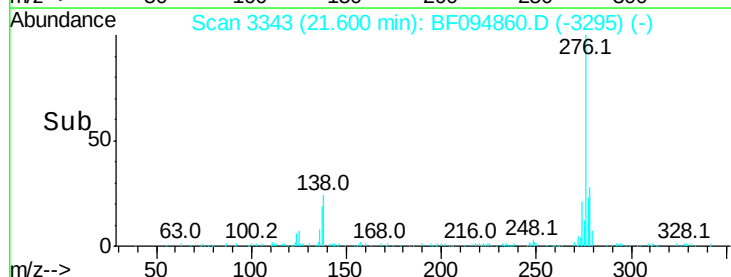
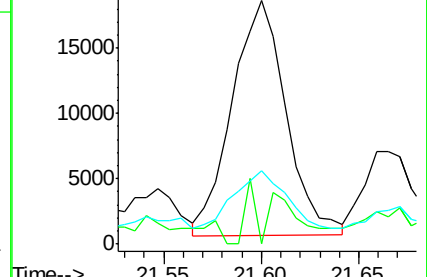
279 30.0 19.3 28.9#

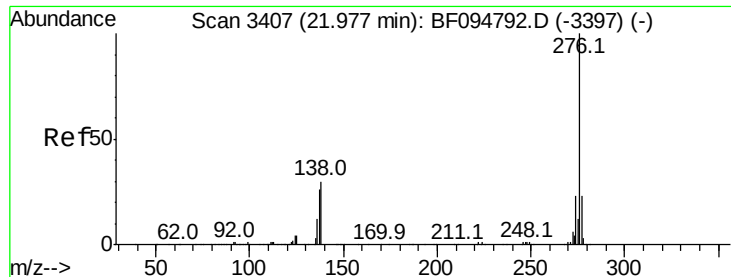


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

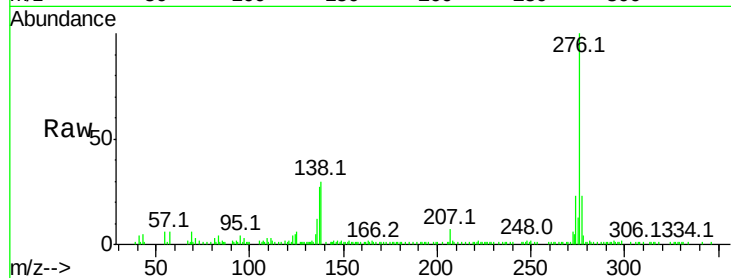




#91
 Benzo(a,h,i)perylene
 Concen: 16.83 ng
 RT: 21.97 min Scan# 3406
 Delta R.T. -0.01 min
 Lab File: BF094860.D
 Acq: 4 May 2017 5:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	29.8	25.4	38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

