

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082817\
 Data File : BF098103.D
 Acq On : 29 Aug 2017 8:53
 Operator : SJ/JU
 Sample : I4961-12 20X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 29 09:33:53 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	101143	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	395631	20.00	ng	-0.01
38) Acenaphthene-d10	9.77	164	170353	20.00	ng	-0.01
63) Phenanthrene-d10	11.26	188	309486	20.00	ng	0.00
75) Chrysene-d12	13.89	240	225441	20.00	ng	0.00
86) Perylene-d12	15.32	264	235927	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	63225	9.51	ng	-0.02
7) Phenol-d6	6.37	99	87524	9.69	ng	-0.02
23) Nitrobenzene-d5	7.30	82	48762	6.70	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	12655	8.56	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	77700	6.70	ng	-0.01
78) Terphenyl-d14	12.84	244	58843	5.44	ng	-0.01

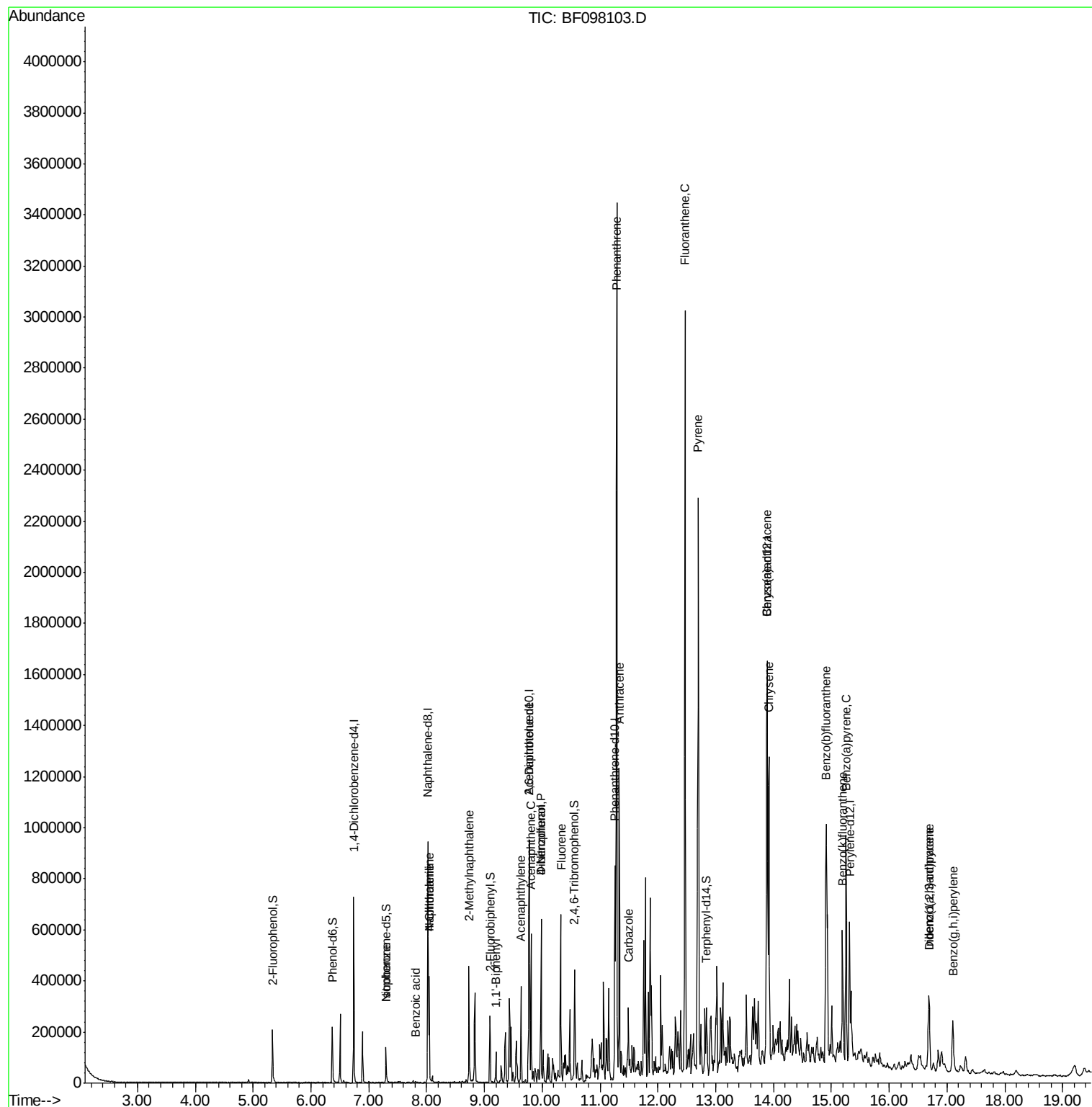
Target Compounds				Qvalue		
25) Isophorone	7.30	82	46915	3.098	ng	# 67
31) Naphthalene	8.05	128	174339	8.488	ng	98
32) Benzoic acid	7.82	122	116	6.426	ng	# 1
33) 4-Chloroaniline	8.05	127	22206	2.564	ng	# 34
37) 2-Methylnaphthalene	8.73	142	115566	9.177	ng	97
45) 1,1'-Biphenyl	9.20	154	34811	2.241	ng	94
48) Acenaphthylene	9.63	152	111470	6.184	ng	97
50) 2,6-Dinitrotoluene	9.77	165	27564	11.090	ng	# 34
51) Acenaphthene	9.80	154	112464	9.893	ng	100
54) Dibenzofuran	9.98	168	225087	14.774	ng	99
55) 4-Nitrophenol	9.98	139	87442	34.181	ng	# 27
57) Fluorene	10.32	166	178032	15.114	ng	95
70) Phenanthrene	11.29	178	1389947	84.282	ng	100
71) Anthracene	11.33	178	397710	23.777	ng	99
72) Carbazole	11.49	167	92657	5.836	ng	99
74) Fluoranthene	12.47	202	1203761	69.932	ng	99
77) Pyrene	12.70	202	1039154	56.358	ng	99
80) Benzo(a)anthracene	13.88	228	520933	38.555	ng	96
82) Chrysene	13.92	228	451160	33.566	ng	97
85) Indeno(1,2,3-cd)pyrene	16.69	276	186448	18.857	ng	# 88
87) Benzo(b)fluoranthene	14.91	252	677465	45.555	ng	99
88) Benzo(k)fluoranthene	15.19	252	233976	16.747	ng	99
89) Benzo(a)pyrene	15.26	252	388220	29.489	ng	98
90) Dibenzo(a,h)anthracene	16.70	278	53923	5.031	ng	95
91) Benzo(g,h,i)perylene	17.10	276	153802	13.753	ng	94

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

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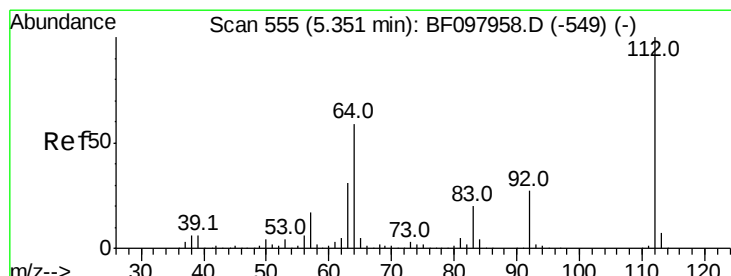
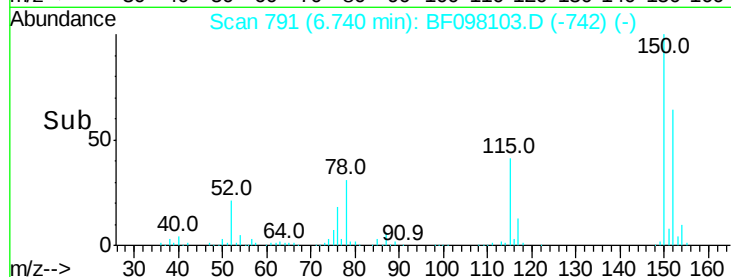
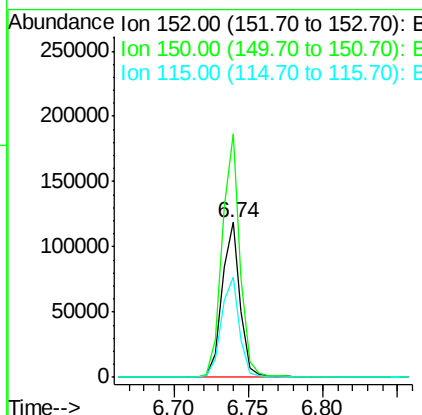
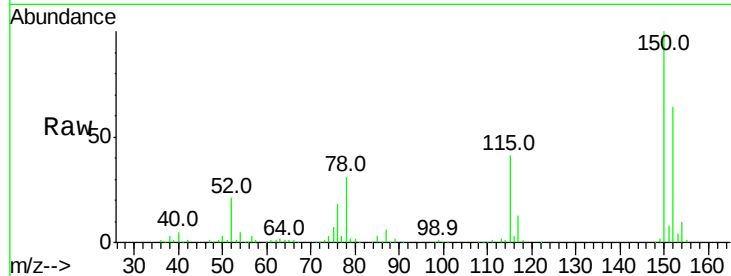


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.74 min Scan# 791
Delta R.T. -0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

Instrument :
BNA_F
ClientSampleId :

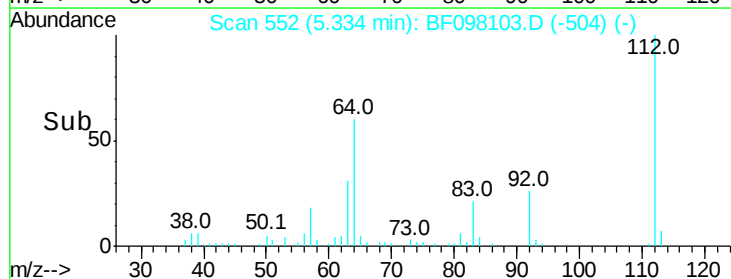
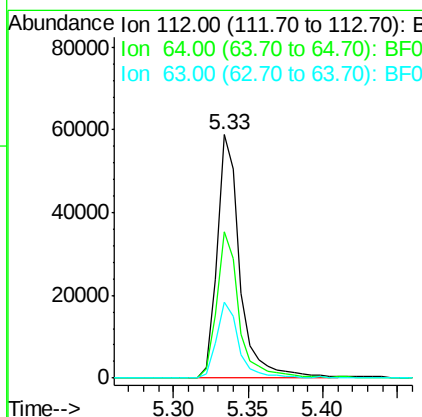
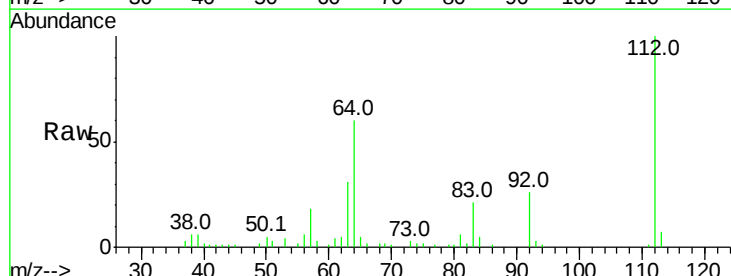
Tot Ion:152 Resp: 101143
Ion Ratio Lower Upper
152 100
150 157.3 126.2 189.2
115 64.8 52.2 78.2

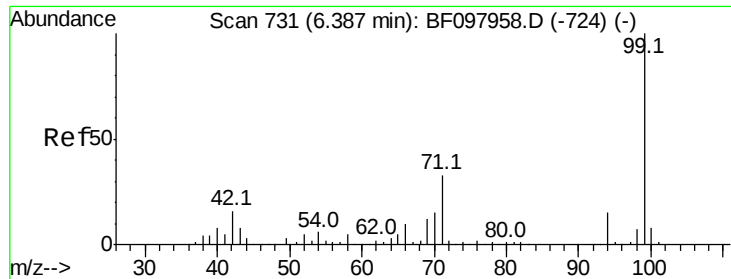


#5

2-Fluorophenol
Concen: 9.508 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.02 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

Tgt Ion:112 Resp: 63225
Ion Ratio Lower Upper
112 100
64 60.3 46.0 69.0
63 31.3 23.4 35.0





#7

Phenol-d6

Concen: 9.688 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

Instrument :

BNA_F

ClientSampled :

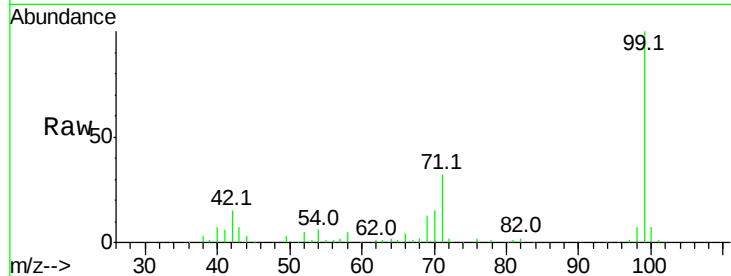
Tot Ion: 99 Resp: 87524

Ion Ratio Lower Upper

99 100

42 14.7 13.5 20.3

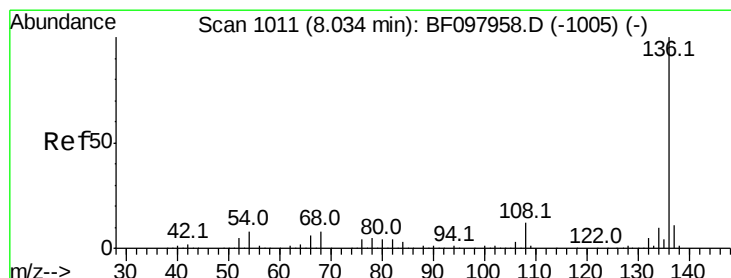
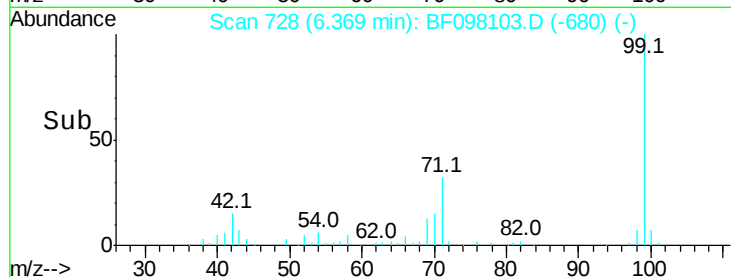
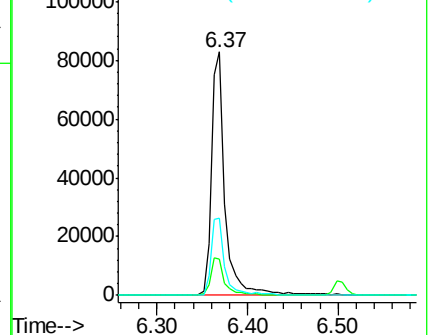
71 31.5 24.5 36.7



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: 20.000 ng

RT: 8.02 min Scan# 1009

Delta R.T. -0.01 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

Tgt Ion: 136 Resp: 395631

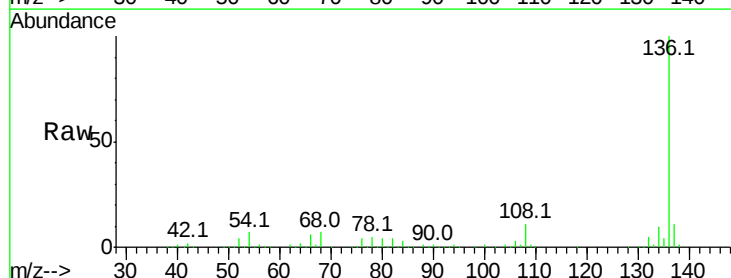
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.4 4.9 7.3#

68 6.8 4.1 6.1#

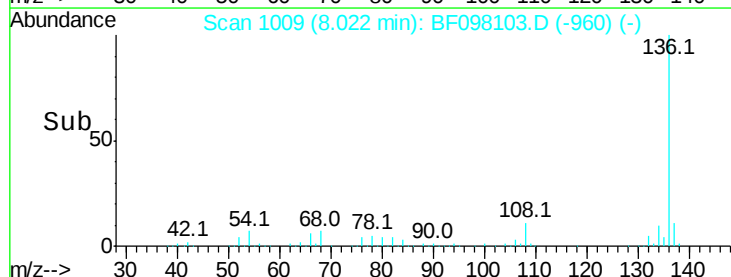
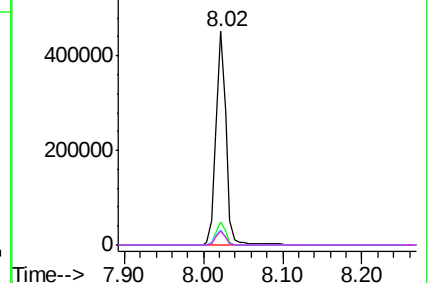


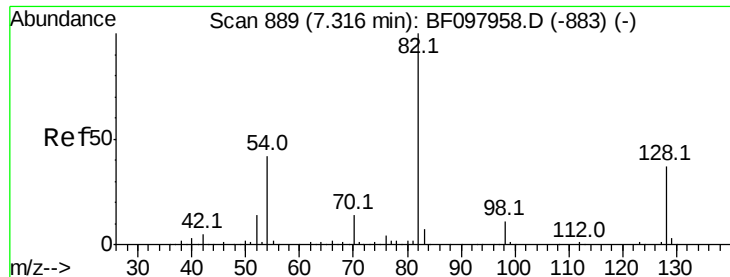
Abundance Ion 136.00 (135.70 to 136.70): E

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

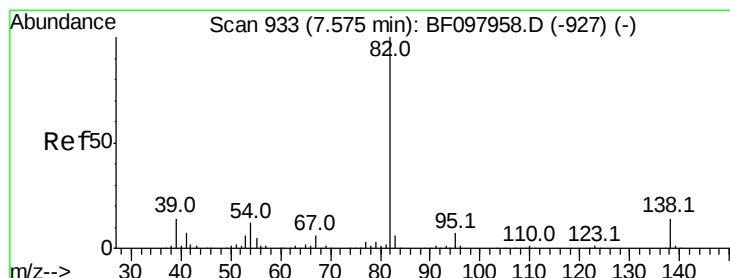
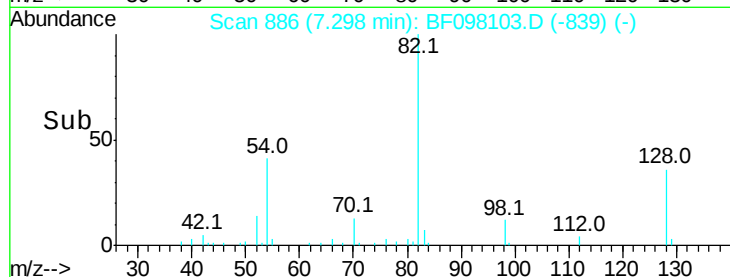
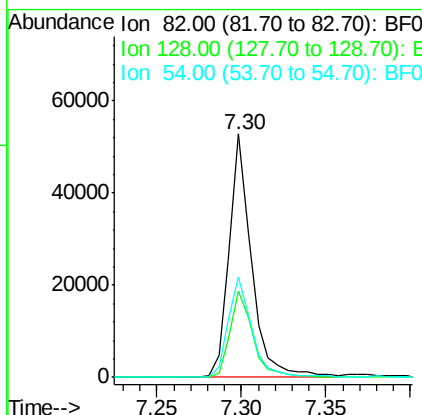
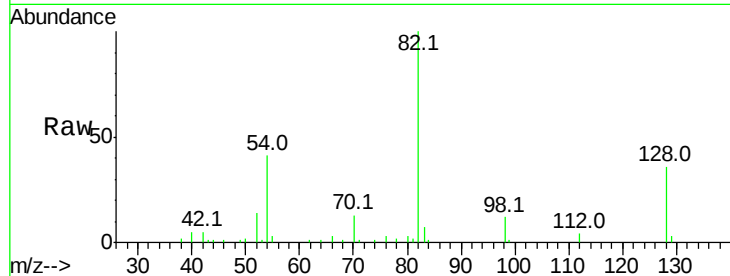




#23
 Nitrobenzene-d5
 Concen: 6.696 ng
 RT: 7.30 min Scan# 886
 Delta R.T. -0.02 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

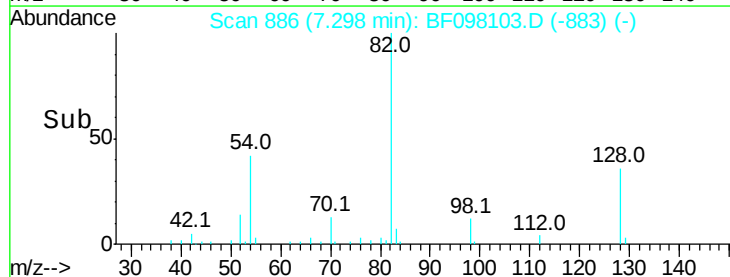
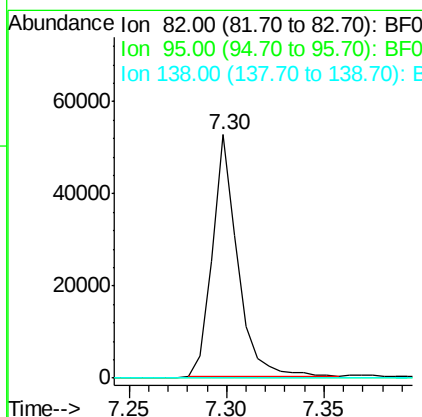
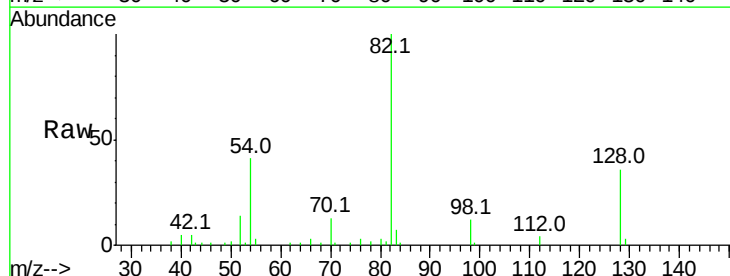
Instrument :
 BNA_F
 ClientSampleId :

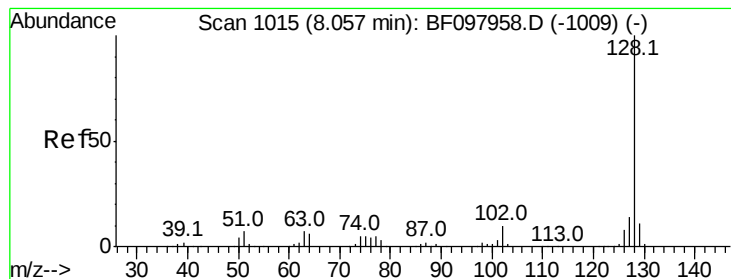
Tot Ion	82	Resp	48762
Ion Ratio	Lower	Upper	
82	100		
128	35.6	34.0	51.0
54	41.4	42.2	63.2#



#25
 Isophorone
 Concen: 3.098 ng
 RT: 7.30 min Scan# 886
 Delta R.T. -0.28 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

Tgt Ion	82	Resp	46915
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.3	7.9#
138	0.0	13.1	19.7#





#31

Naphthalene

Concen: 8.488 ng

RT: 8.05 min Scan# 1013

Delta R.T. -0.01 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

Instrument :

BNA_F

ClientSampleId :

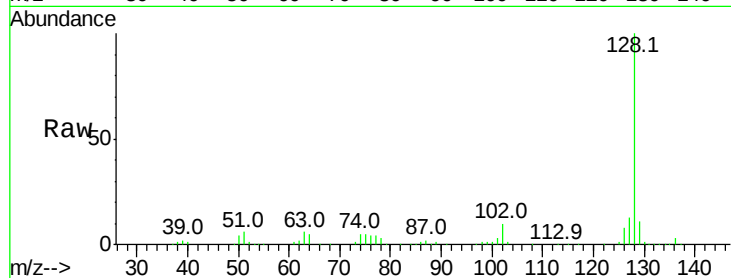
Tot Ion:128 Resp: 174339

Ion Ratio Lower Upper

128 100

129 10.6 9.0 13.6

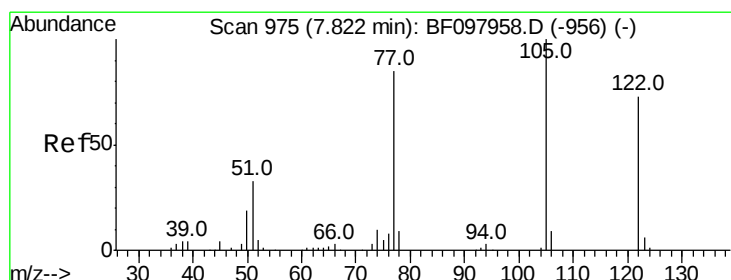
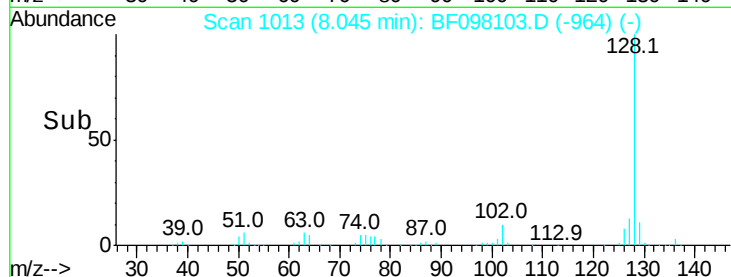
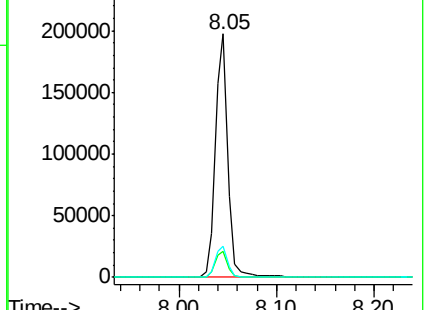
127 13.0 10.8 16.2



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: 6.426 ng

RT: 7.82 min Scan# 974

Delta R.T. -0.02 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

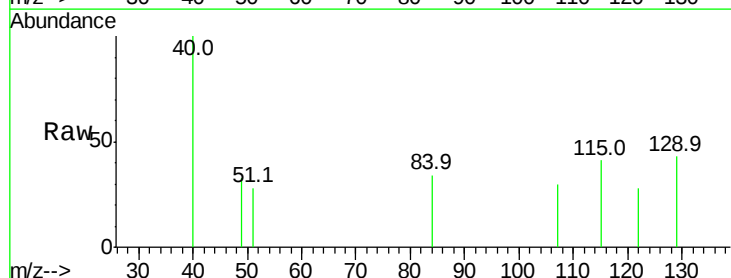
Tgt Ion:122 Resp: 116

Ion Ratio Lower Upper

122 100

105 0.0 103.3 143.3#

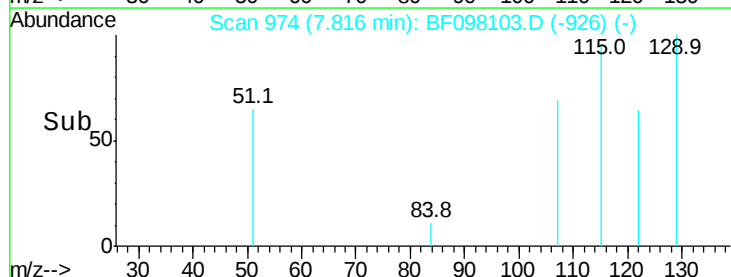
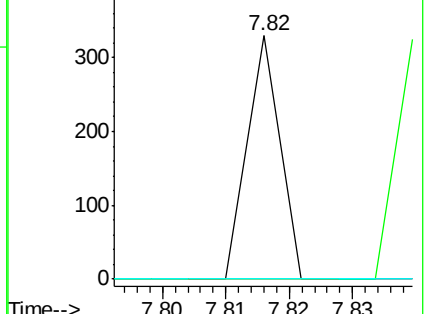
77 0.0 73.7 113.7#

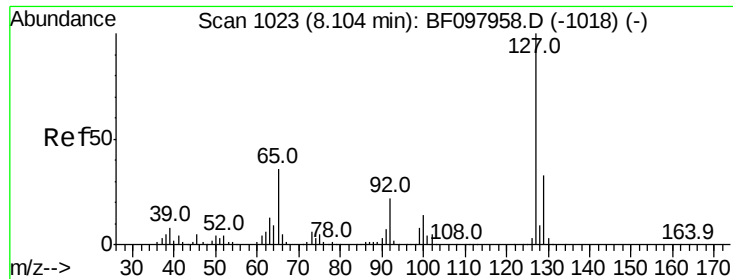


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

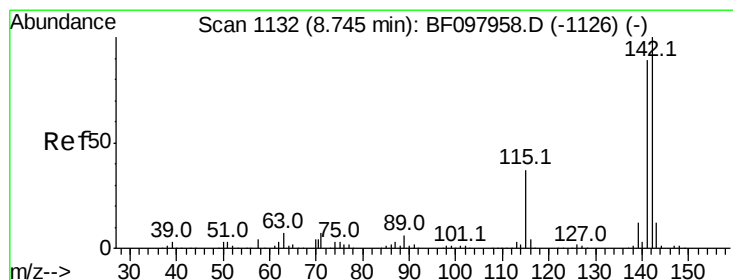
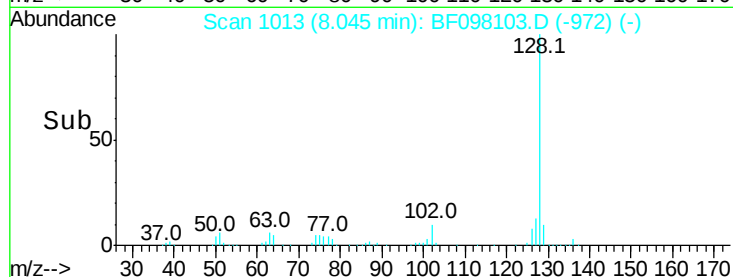
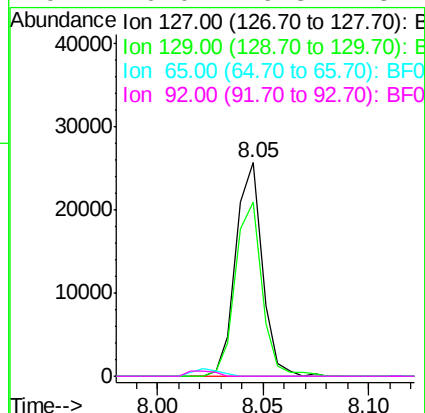
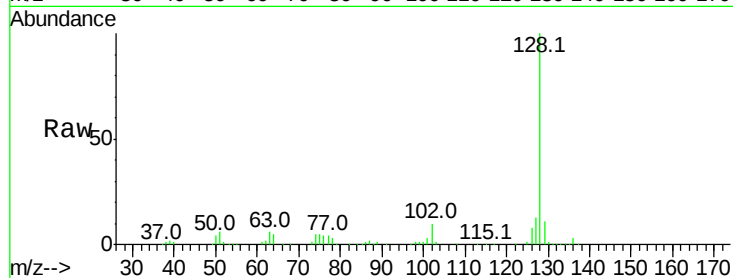




#33
 4-Chloroaniline
 Concen: 2.564 ng
 RT: 8.05 min Scan# 1013
 Delta R.T. -0.06 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

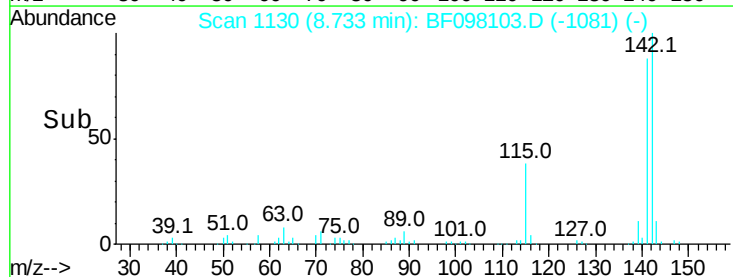
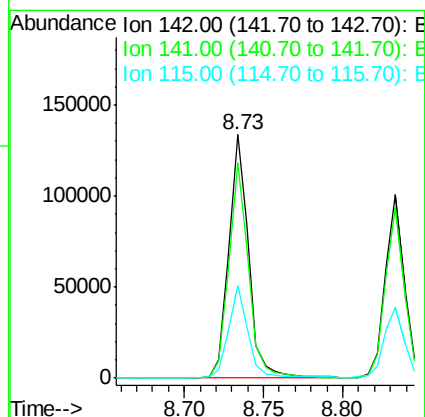
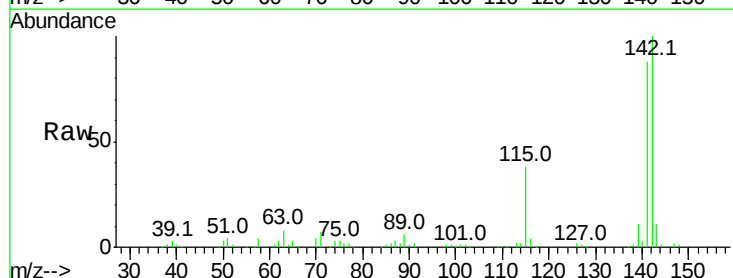
Instrument :
 BNA_F
 ClientSampleId :

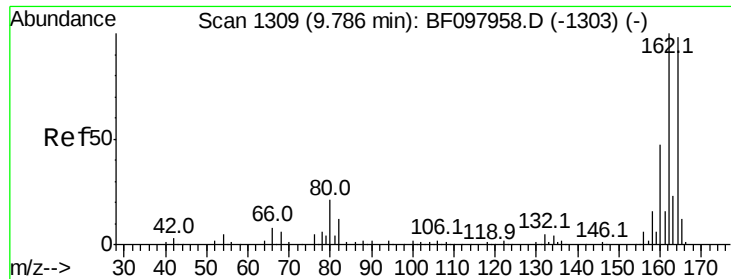
Tot Ion:	127	Resp:	22206
Ion	Ratio	Lower	Upper
127	100		
129	81.5	26.2	39.2#
65	0.0	27.8	41.8#
92	0.0	16.8	25.2#



#37
 2-Methylnaphthalene
 Concen: 9.177 ng
 RT: 8.73 min Scan# 1130
 Delta R.T. -0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

Tgt Ion:	142	Resp:	115566
Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.3	106.9
115	38.0	27.1	40.7

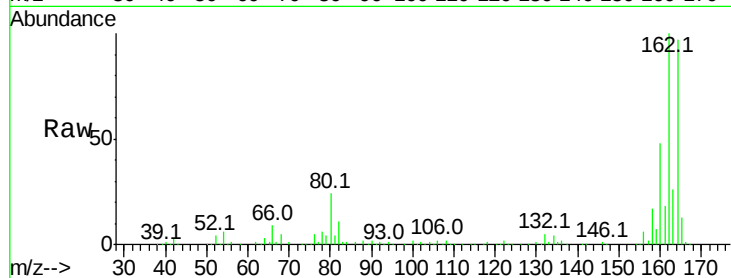




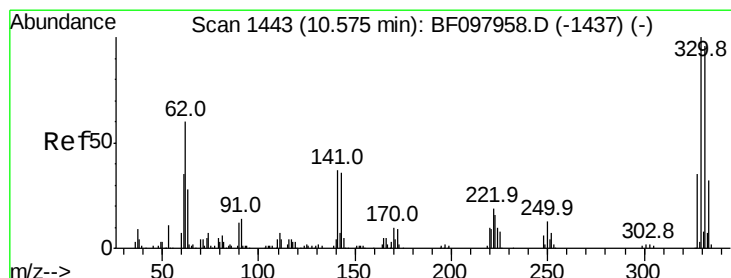
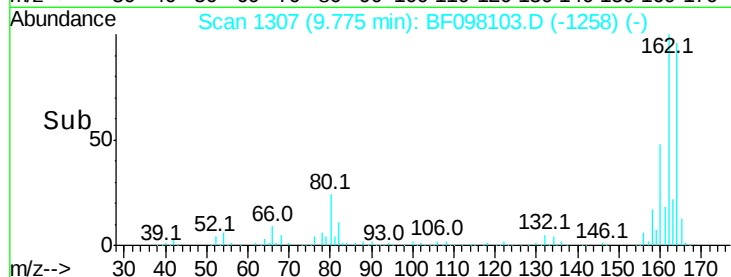
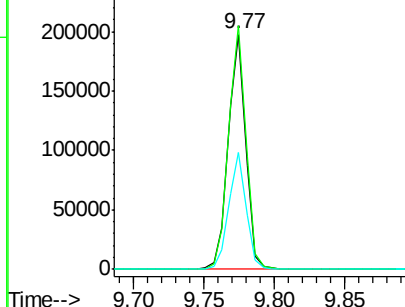
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:164 Resp: 170353
 Ion Ratio Lower Upper
 164 100
 162 103.5 82.6 123.8
 160 49.9 36.2 54.2

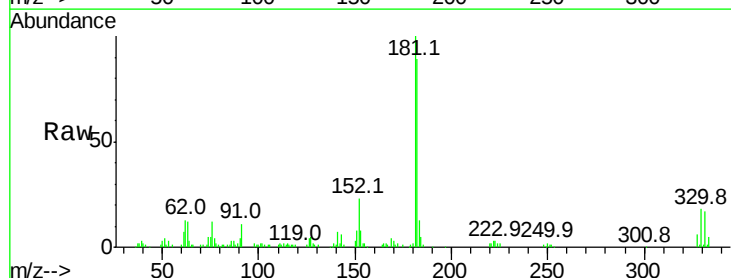


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

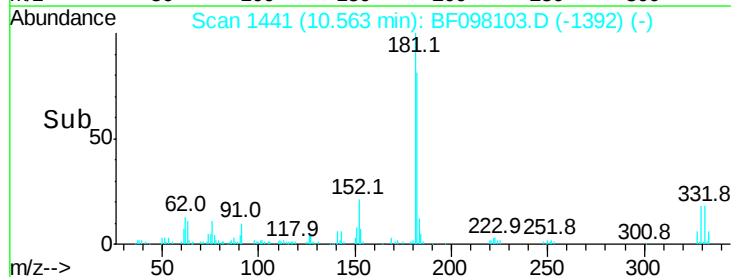
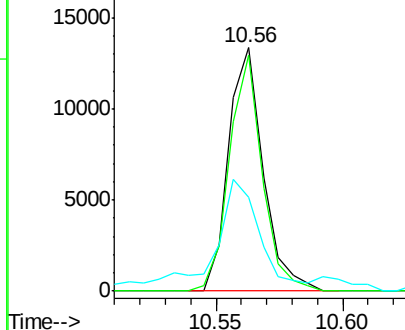


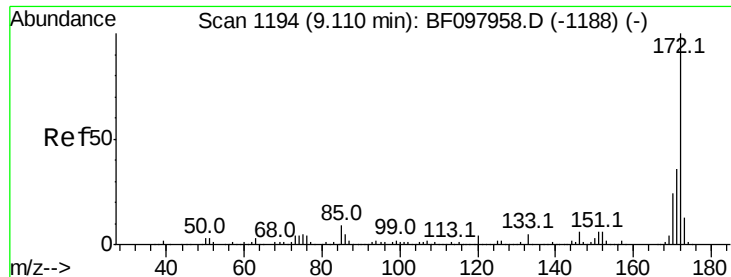
#41
 2,4,6-Tribromophenol
 Concen: 8.562 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

Tgt Ion:330 Resp: 12655
 Ion Ratio Lower Upper
 330 100
 332 92.3 76.6 115.0
 141 63.8 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

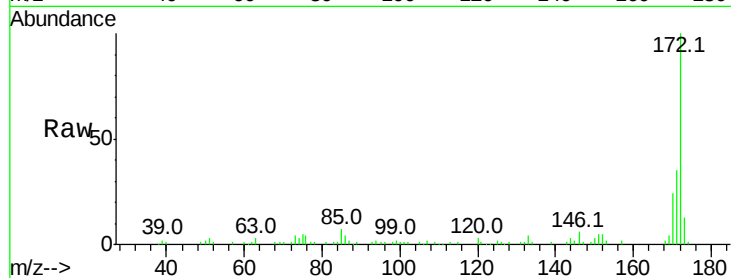




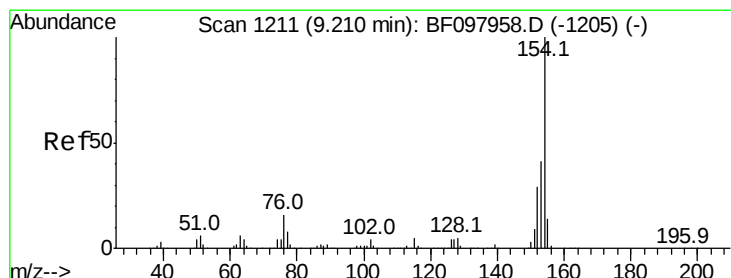
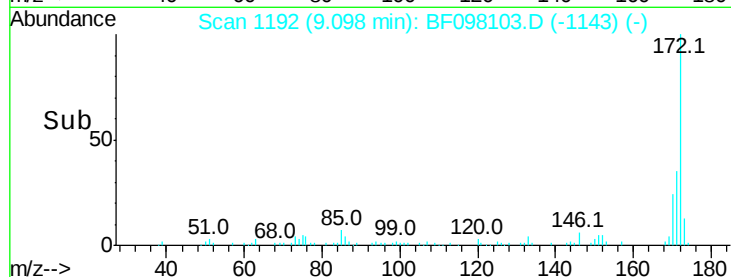
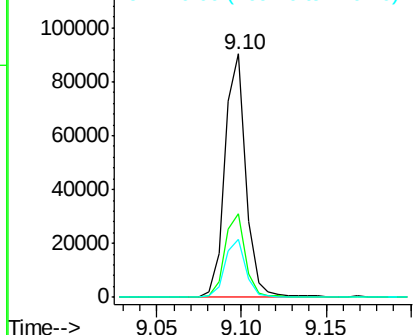
#44
 2-Fluorobiphenyl
 Concen: 6.701 ng
 RT: 9.10 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 77700
 Ion Ratio Lower Upper
 172 100
 171 34.6 29.6 44.4
 170 23.8 19.8 29.8

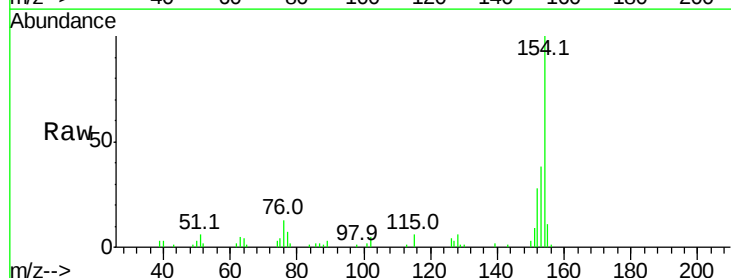


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

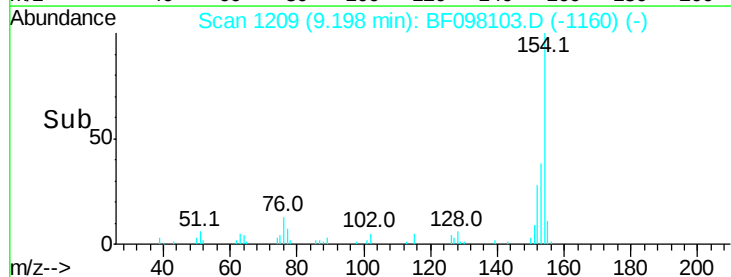
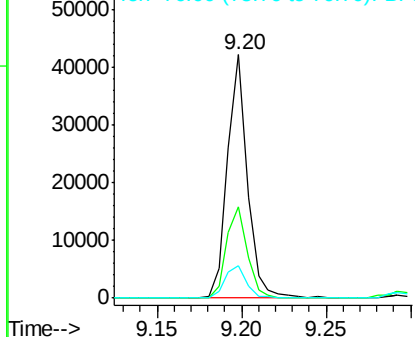


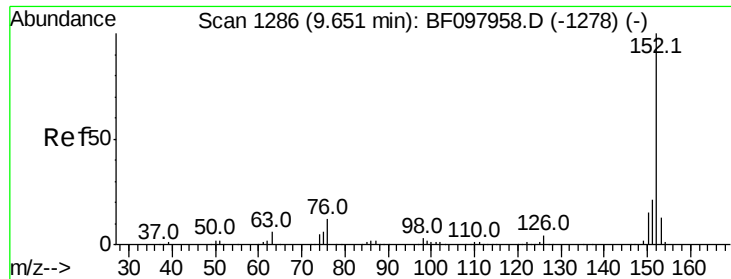
#45
 1,1'-Biphenyl
 Concen: 2.241 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

Tgt Ion:154 Resp: 34811
 Ion Ratio Lower Upper
 154 100
 153 37.7 21.2 61.2
 76 13.1 0.0 29.9



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0





#48

Acenaphthylene

Concen: 6.184 ng

RT: 9.63 min Scan# 1283

Delta R.T. -0.02 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

Instrument :

BNA_F

ClientSampleId :

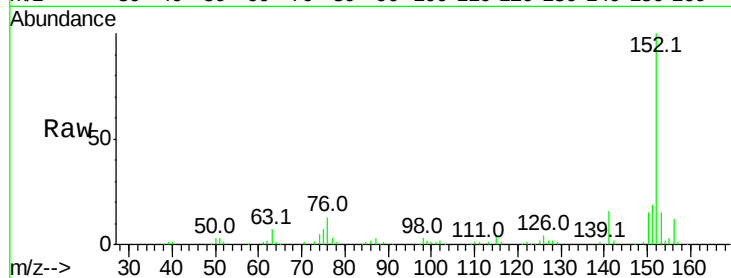
Tot Ion:152 Resp: 111470

Ion Ratio Lower Upper

152 100

151 19.4 16.8 25.2

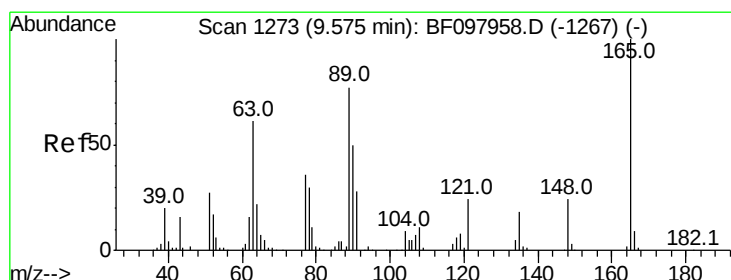
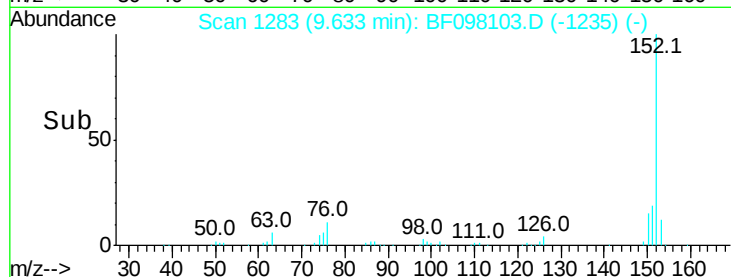
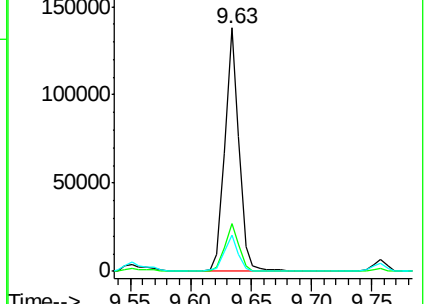
153 14.7 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 11.090 ng

RT: 9.77 min Scan# 1307

Delta R.T. 0.20 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

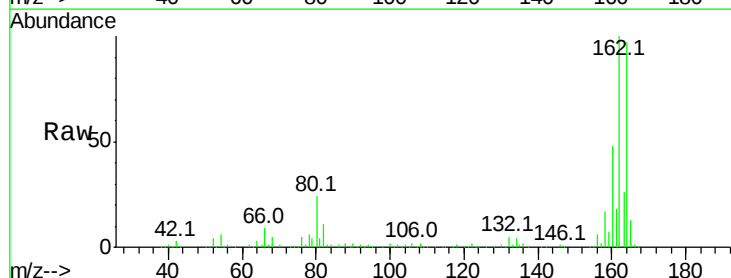
Tgt Ion:165 Resp: 27564

Ion Ratio Lower Upper

165 100

63 1.4 34.3 51.5#

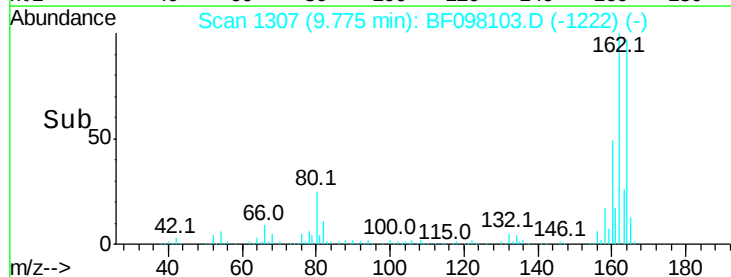
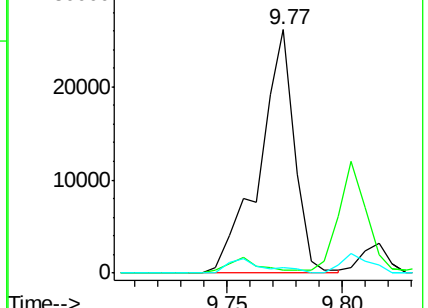
89 2.1 37.1 55.7#

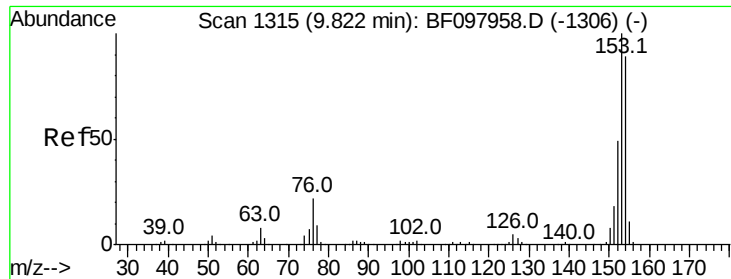


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 9.893 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

Instrument :

BNA_F

ClientSampleId :

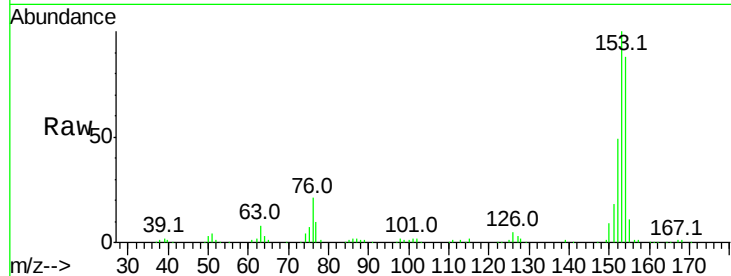
Tot Ion:154 Resp: 112464

Ion Ratio Lower Upper

154 100

153 113.3 90.5 135.7

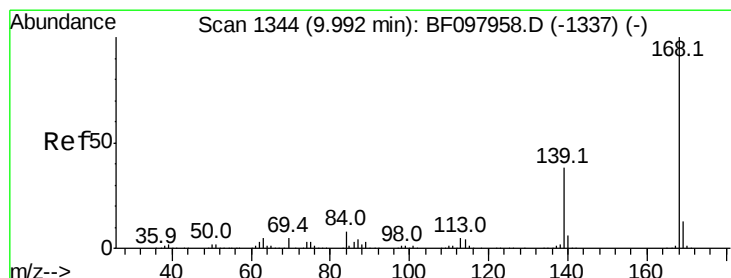
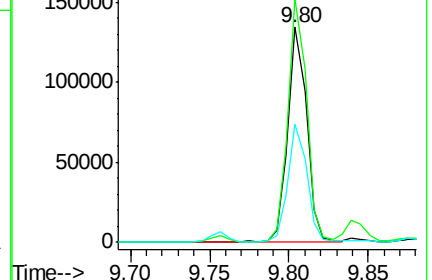
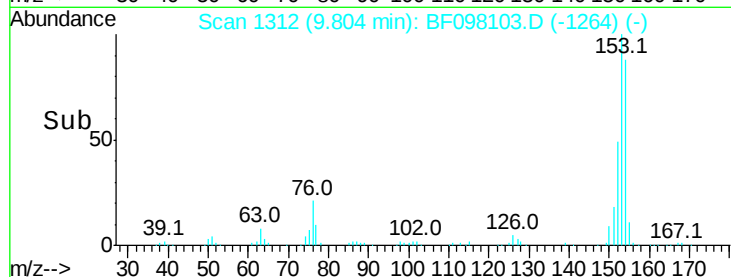
152 55.1 43.6 65.4



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

Dibenzofuran

Concen: 14.774 ng

RT: 9.98 min Scan# 1342

Delta R.T. -0.01 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

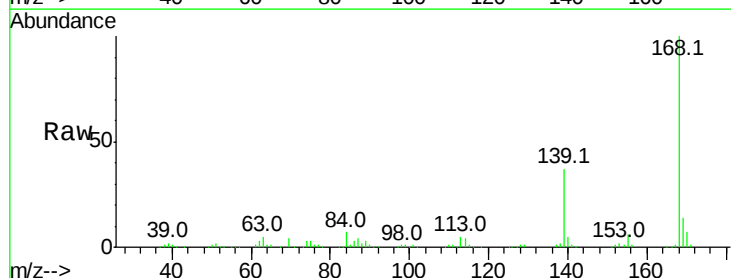
Tgt Ion:168 Resp: 225087

Ion Ratio Lower Upper

168 100

139 37.5 30.6 45.8

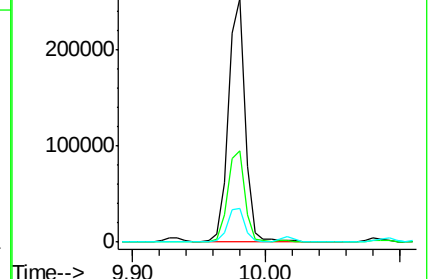
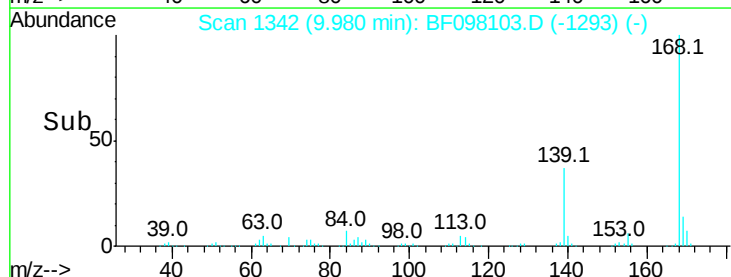
169 14.1 10.8 16.2

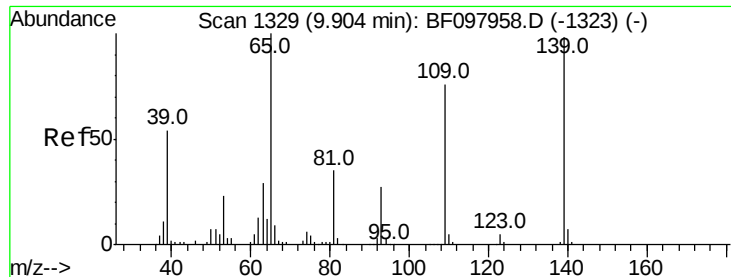


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 34.181 ng

RT: 9.98 min Scan# 1342

Delta R.T. 0.08 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

Instrument :

BNA_F

ClientSampleId :

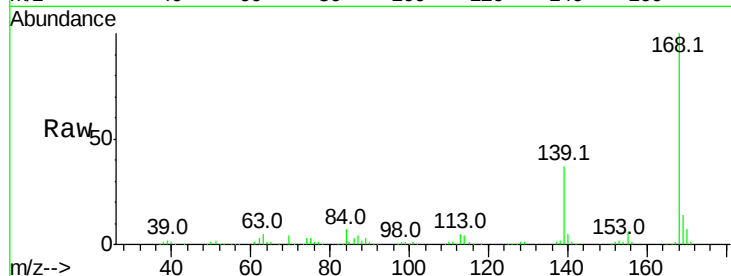
Tot Ion:139 Resp: 87442

Ion Ratio Lower Upper

139 100

109 0.7 34.1 74.1#

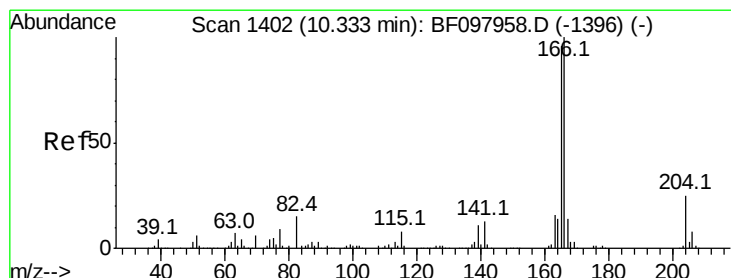
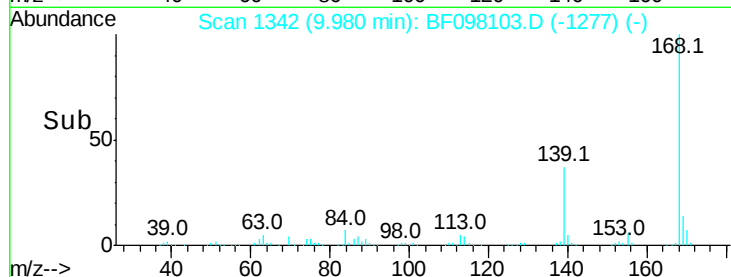
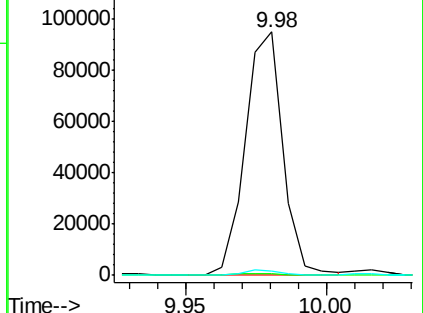
65 1.6 31.4 71.4#



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: 15.114 ng

RT: 10.32 min Scan# 1400

Delta R.T. -0.01 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

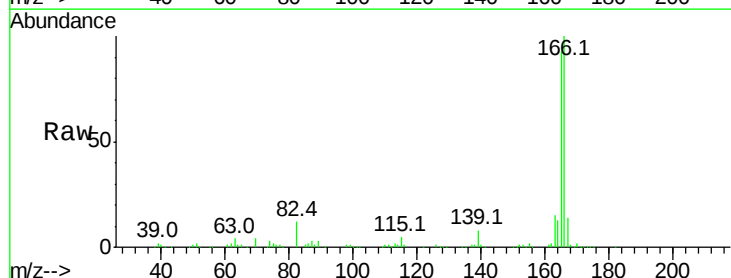
Tgt Ion:166 Resp: 178032

Ion Ratio Lower Upper

166 100

165 92.8 78.8 118.2

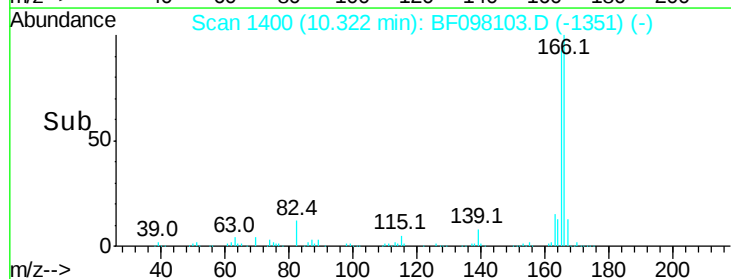
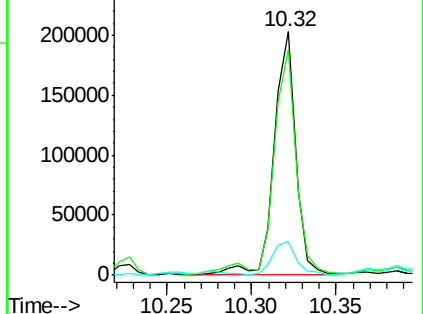
167 13.6 10.6 16.0

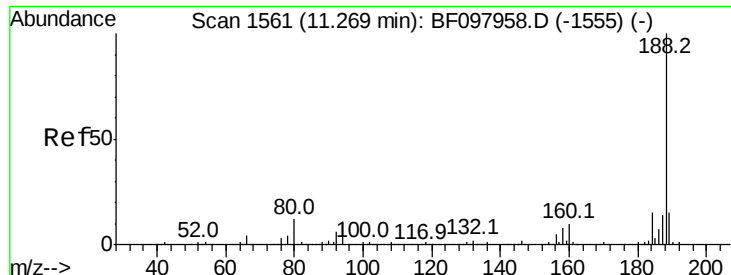


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

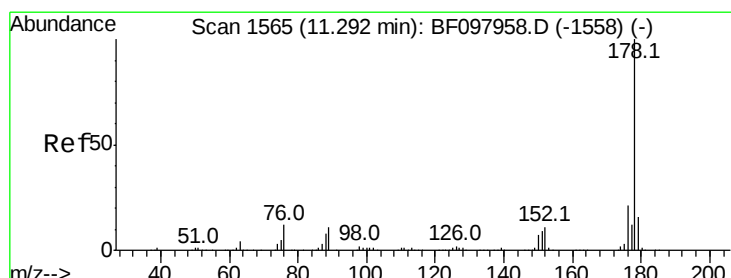
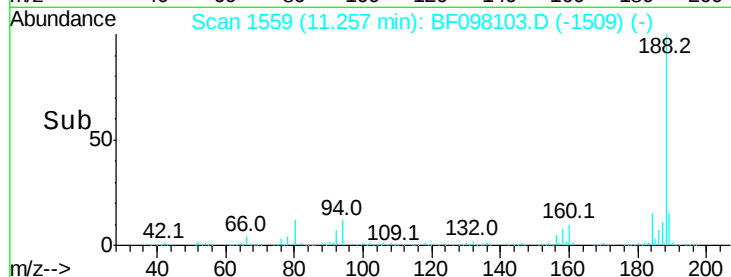
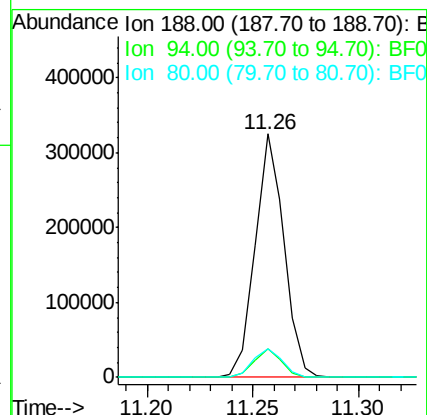
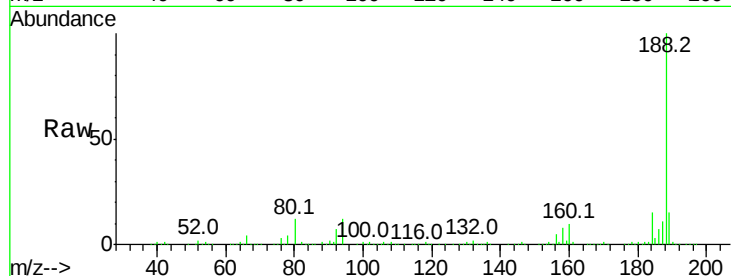




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.26 min Scan# 1559
Delta R.T. -0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

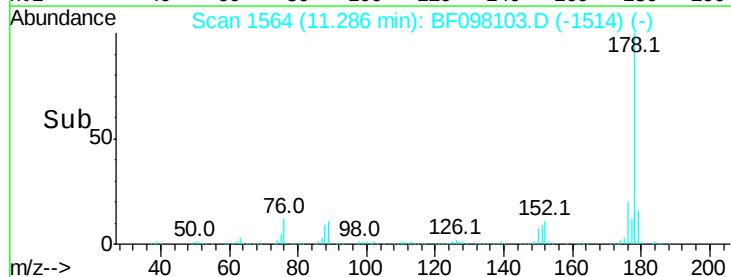
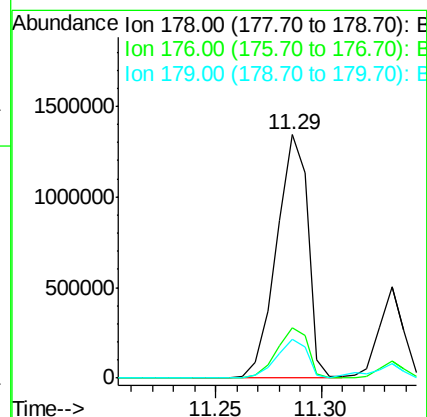
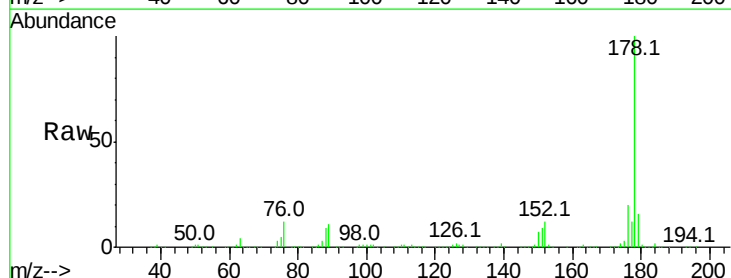
Instrument :
BNA_F
ClientSampleId :

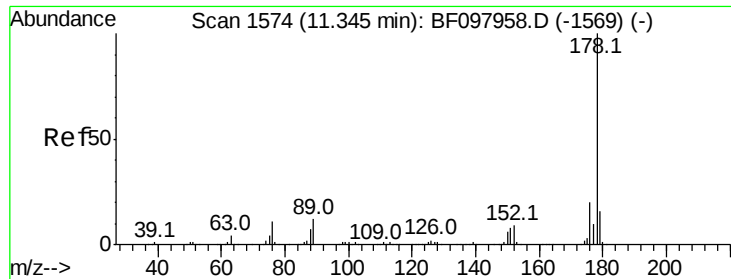
Tot Ion:188 Resp: 309486
Ion Ratio Lower Upper
188 100
94 11.7 9.4 14.2
80 11.8 10.2 15.2



#70
Phenanthrene
Concen: 84.282 ng
RT: 11.29 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

Tgt Ion:178 Resp: 1389947
Ion Ratio Lower Upper
178 100
176 20.4 16.2 24.4
179 16.0 12.6 19.0

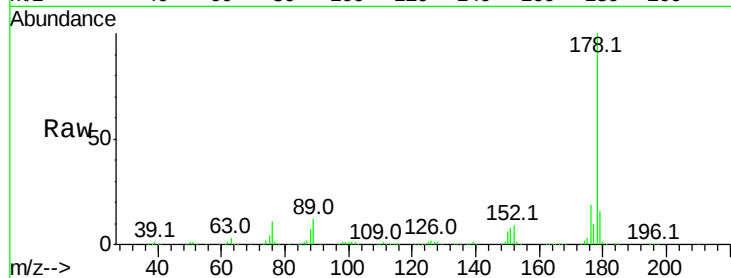




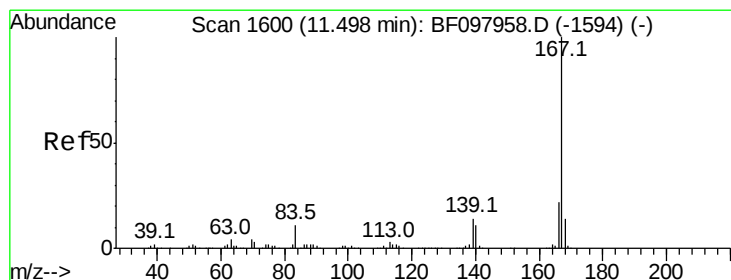
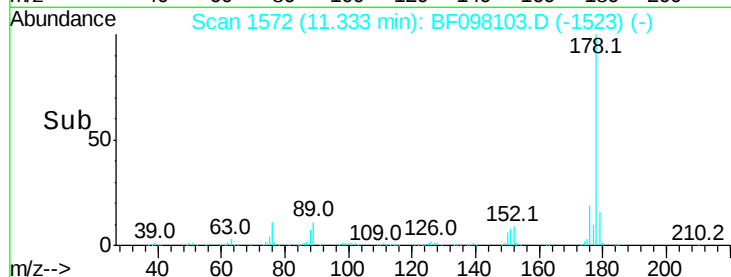
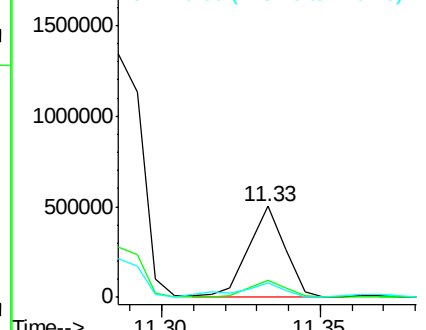
#71
 Anthracene
 Concen: 23.777 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 397710
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.8 23.8
 179 15.9 12.7 19.1

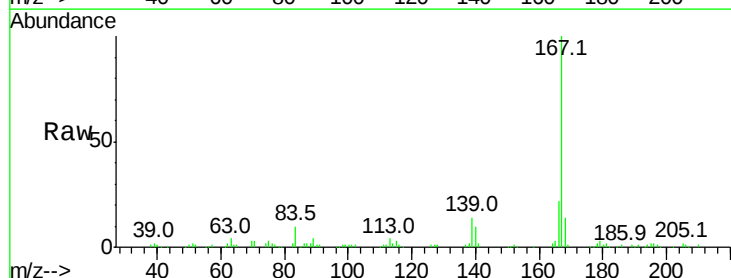


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

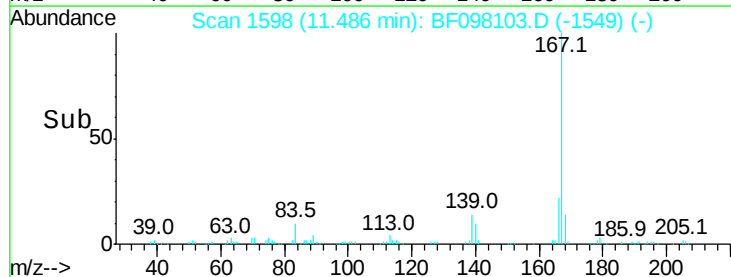
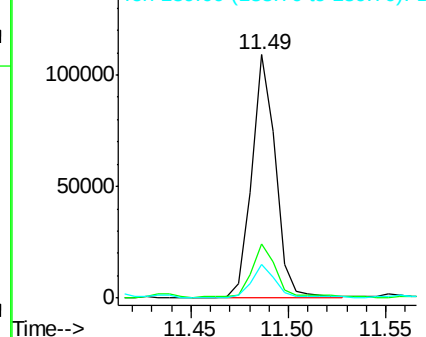


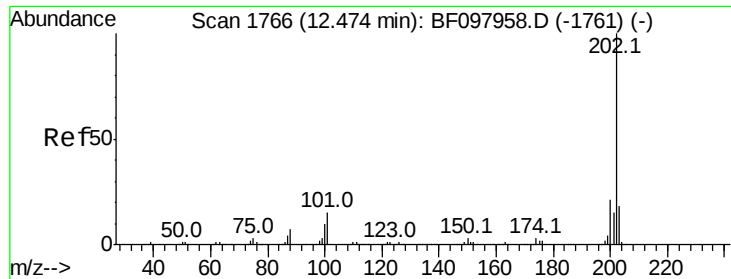
#72
 Carbazole
 Concen: 5.836 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. -0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

Tgt Ion:167 Resp: 92657
 Ion Ratio Lower Upper
 167 100
 166 22.2 18.1 27.1
 139 13.8 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: 69.932 ng

RT: 12.47 min Scan# 1766

Delta R.T. 0.00 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

Instrument :

BNA_F

ClientSampleId :

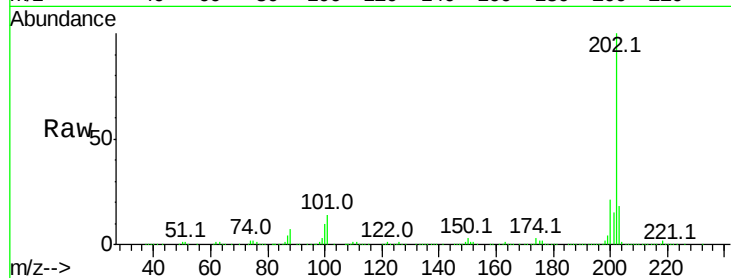
Tot Ion:202 Resp: 1203761

Ion Ratio Lower Upper

202 100

101 14.1 0.0 33.2

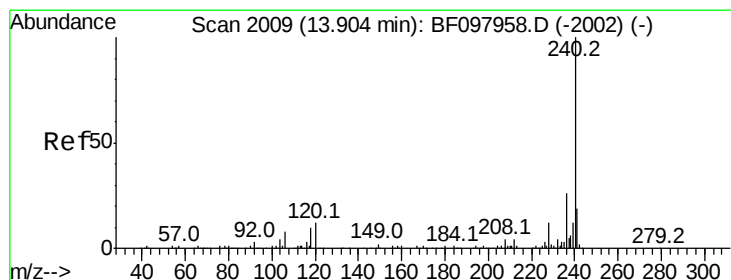
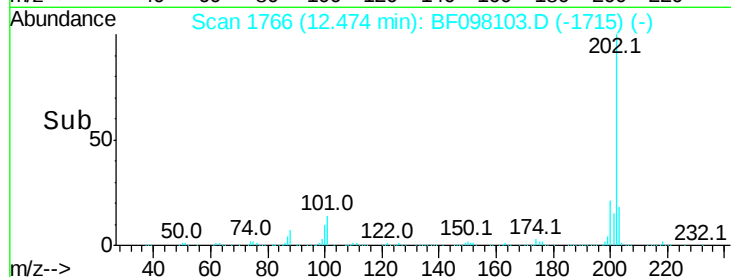
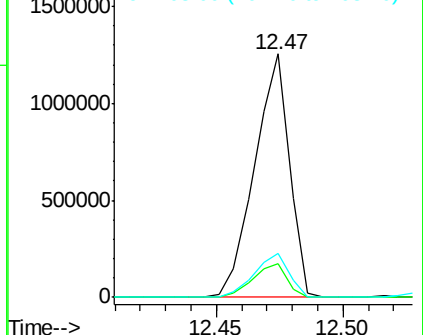
203 18.1 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

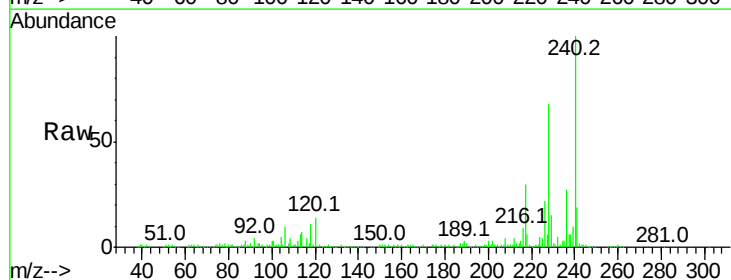
Tgt Ion:240 Resp: 225441

Ion Ratio Lower Upper

240 100

120 13.9 5.8 8.8#

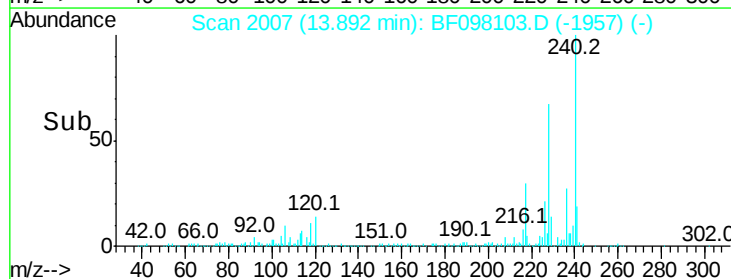
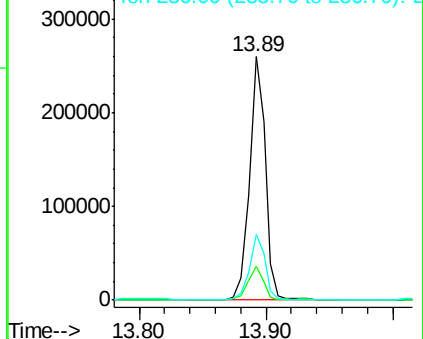
236 26.8 20.5 30.7

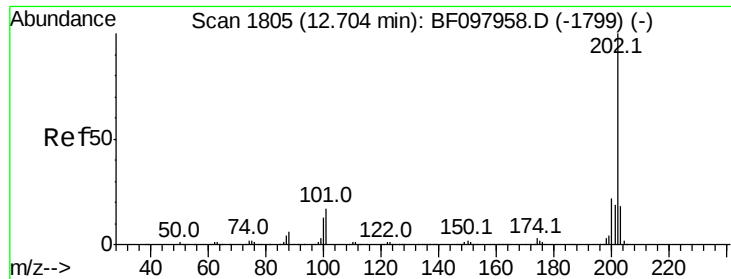


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

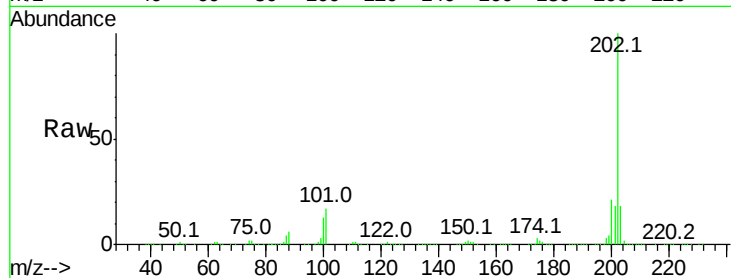




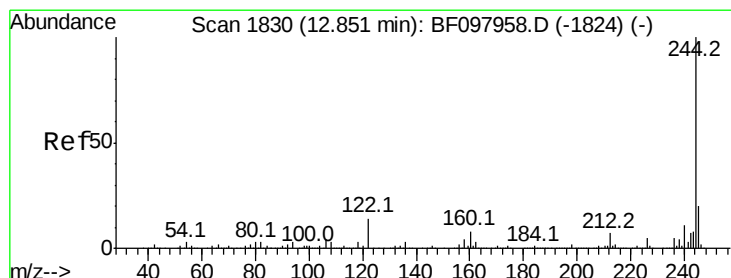
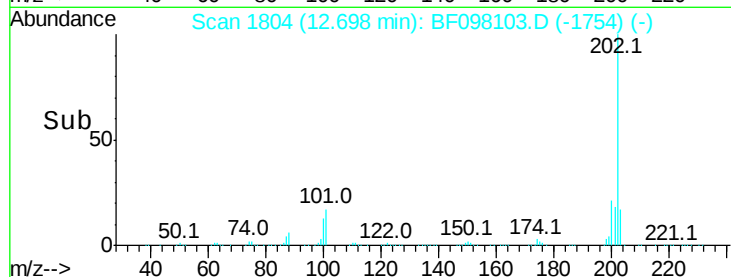
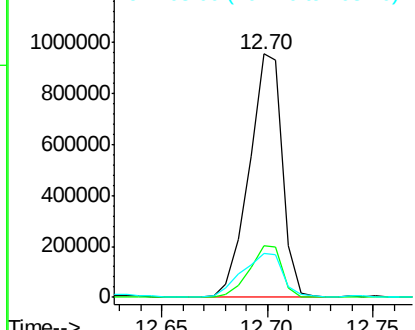
#77
Pvrene
Concen: 56.358 ng
RT: 12.70 min Scan# 1804
Delta R.T. -0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 1039154
Ion Ratio Lower Upper
202 100
200 21.3 17.6 26.4
203 18.1 14.4 21.6

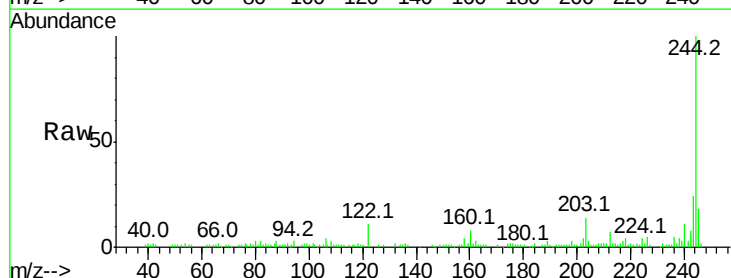


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

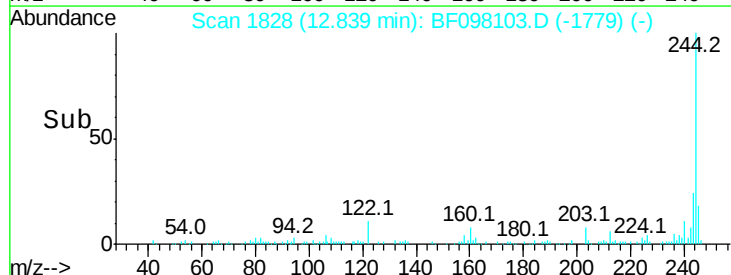
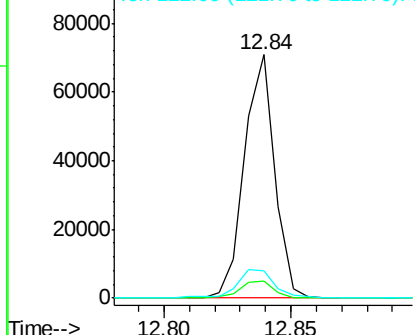


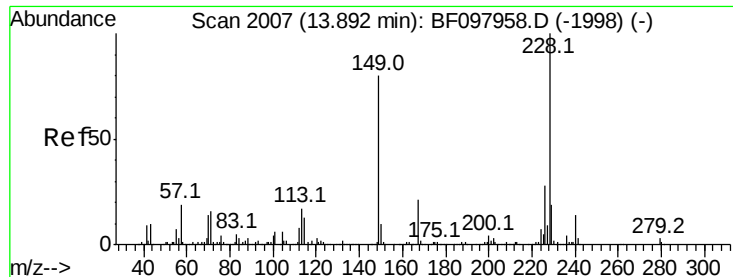
#78
Terphenyl-d14
Concen: 5.443 ng
RT: 12.84 min Scan# 1828
Delta R.T. -0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

Tgt Ion:244 Resp: 58843
Ion Ratio Lower Upper
244 100
212 7.0 6.0 9.0
122 11.2 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

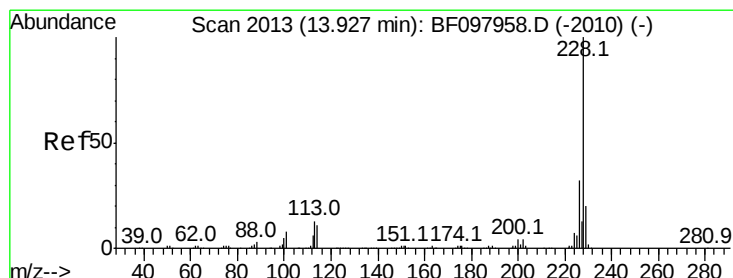
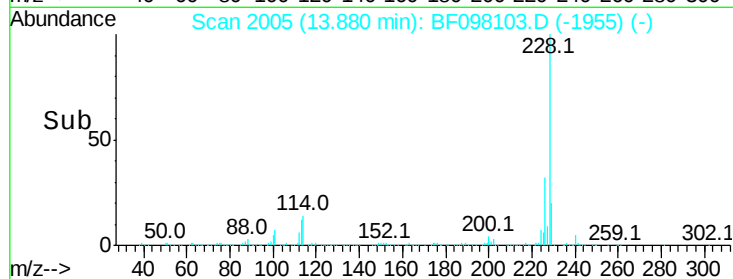
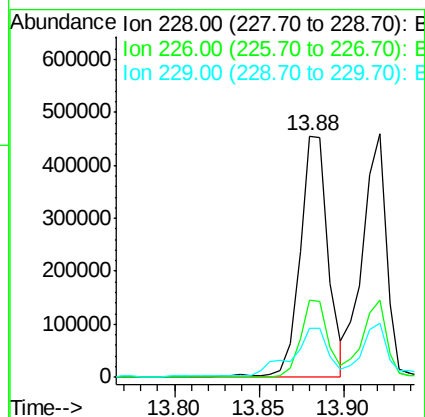
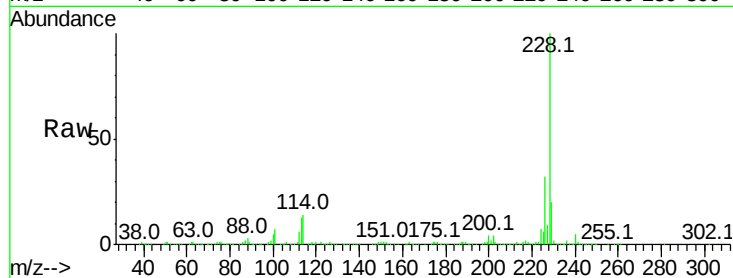




#80
Benzo(a)anthracene
Concen: 38.555 ng
RT: 13.88 min Scan# 2005
Delta R.T. -0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

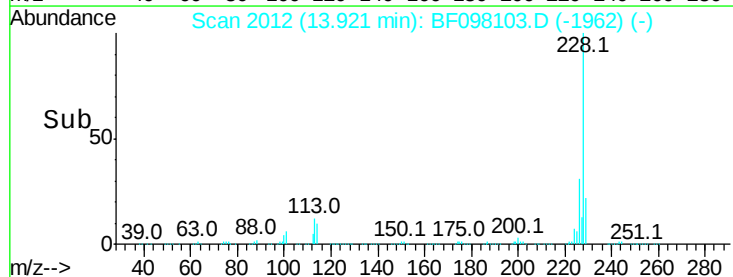
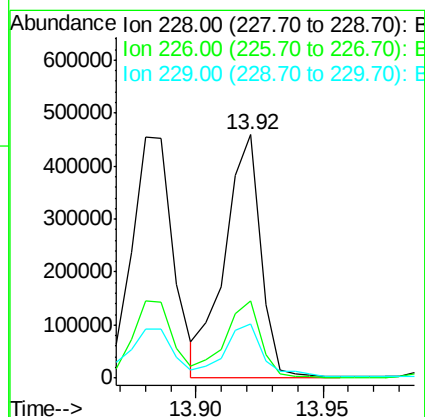
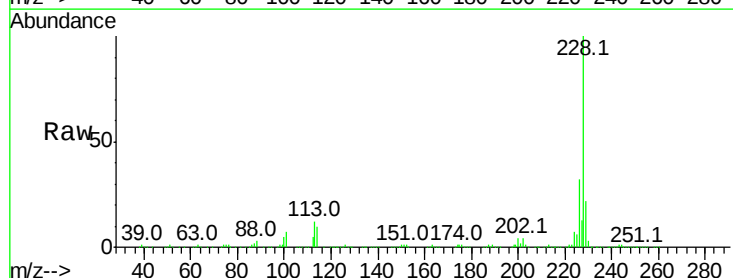
Instrument :
BNA_F
ClientSampleId :

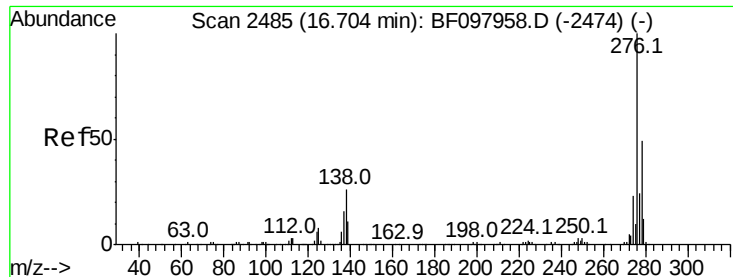
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.9	22.6	33.8
229	20.2	16.3	24.5



#82
Chrysene
Concen: 33.566 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.9	37.3
229	22.3	15.8	23.6

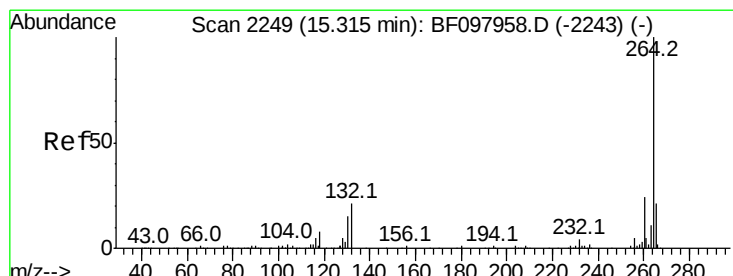
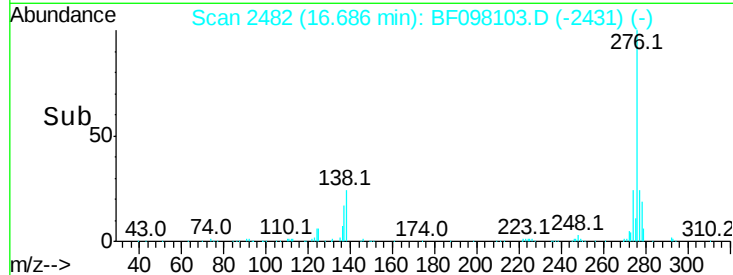
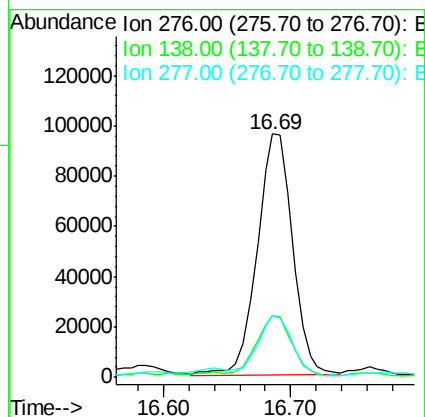
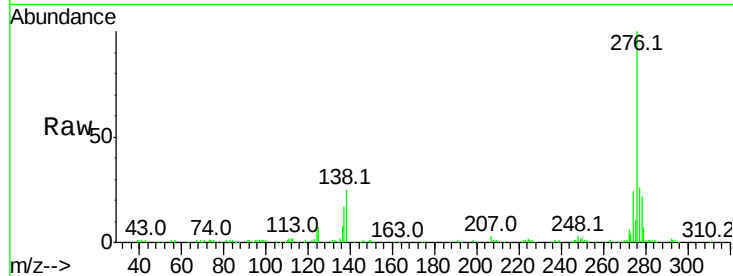




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 18.857 ng
 RT: 16.69 min Scan# 2482
 Delta R.T. 0.00 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

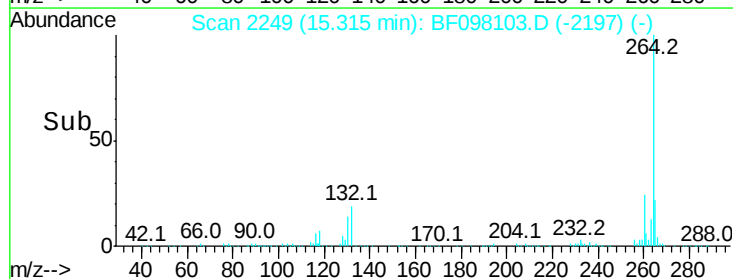
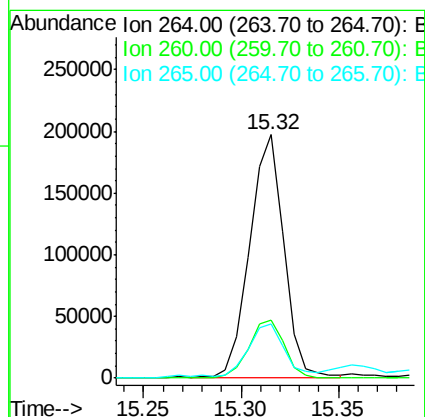
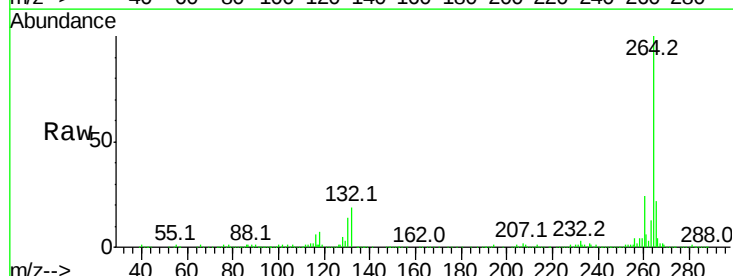
Instrument :
 BNA_F
 ClientSampleId :

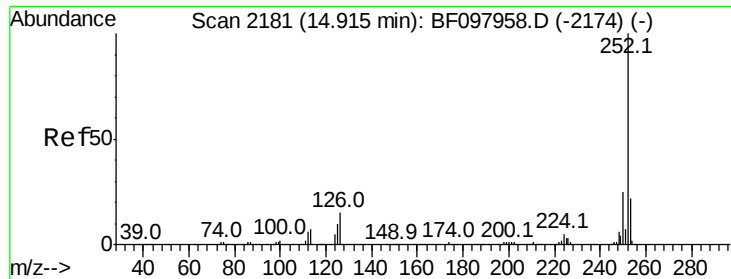
Tot Ion:276 Resp: 186448
 Ion Ratio Lower Upper
 276 100
 138 24.5 27.8 41.6#
 277 23.6 20.2 30.4



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.32 min Scan# 2249
 Delta R.T. 0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

Tgt Ion:264 Resp: 235927
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.5 29.3
 265 22.1 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 45.555 ng

RT: 14.91 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

Instrument :

BNA_F

ClientSampleId :

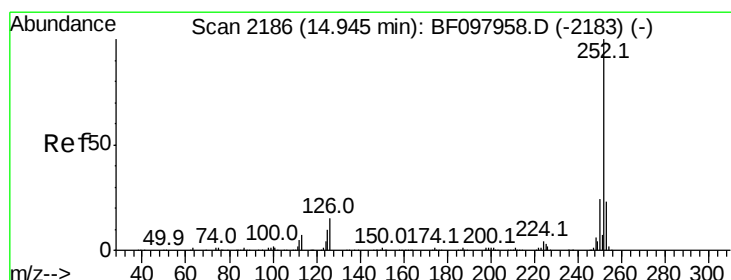
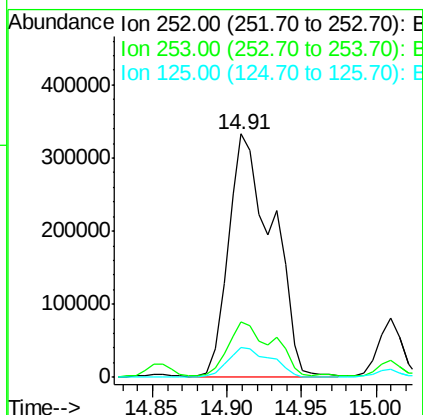
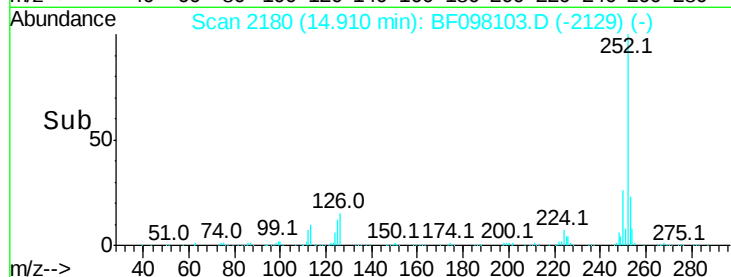
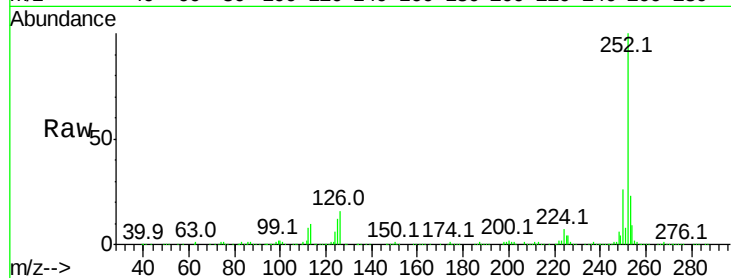
Tot Ion:252 Resp: 677465

Ion Ratio Lower Upper

252 100

253 23.0 18.1 27.1

125 12.2 9.8 14.8



#88

Benzo(k)fluoranthene

Concen: 16.747 ng

RT: 15.19 min Scan# 2228

Delta R.T. 0.25 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

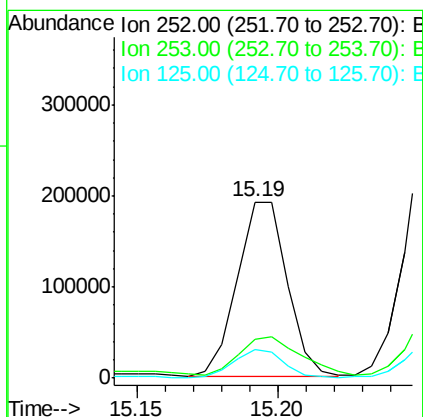
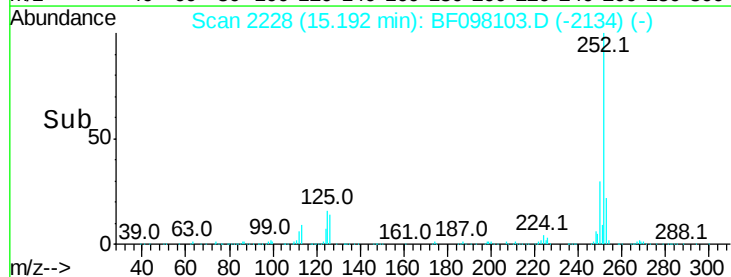
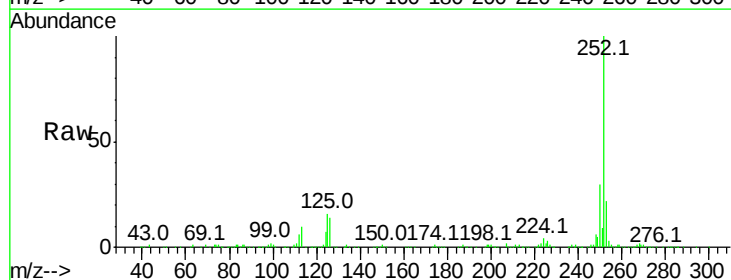
Tgt Ion:252 Resp: 233976

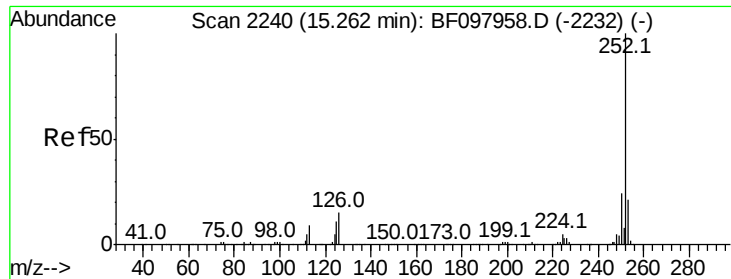
Ion Ratio Lower Upper

252 100

253 22.3 18.4 27.6

125 16.2 13.1 19.7





#89

Benzo(a)pyrene

Concen: 29.489 ng

RT: 15.26 min Scan# 2239

Delta R.T. 0.00 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

Instrument :

BNA_F

ClientSampled :

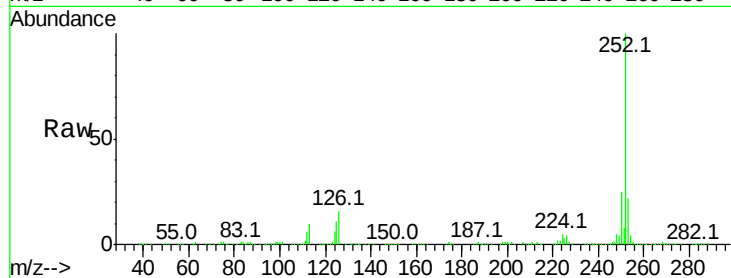
Tot Ion:252 Resp: 388220

Ion Ratio Lower Upper

252 100

253 22.0 17.5 26.3

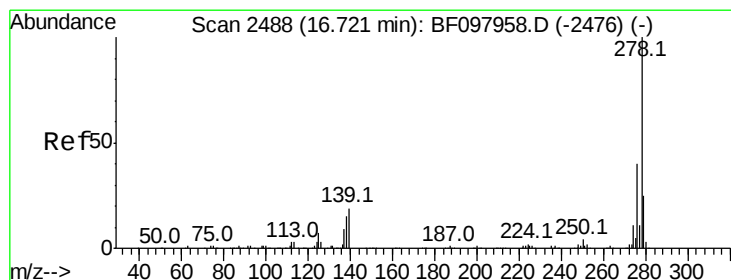
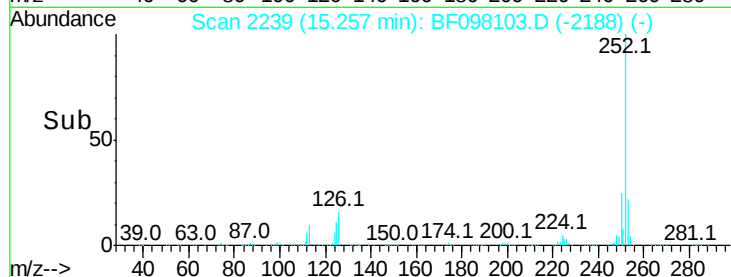
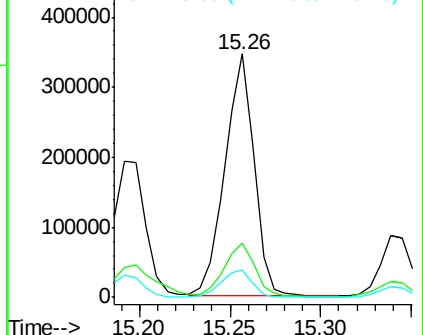
125 11.4 11.0 16.4



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: 5.031 ng

RT: 16.70 min Scan# 2484

Delta R.T. -0.01 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

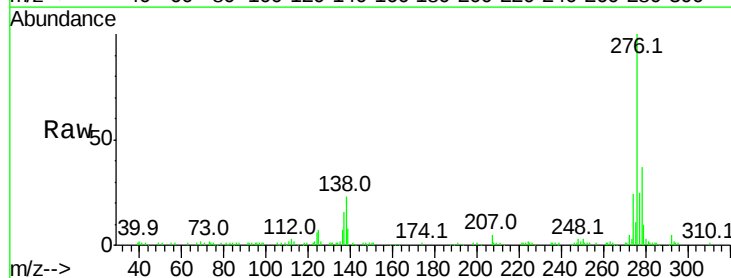
Tgt Ion:278 Resp: 53923

Ion Ratio Lower Upper

278 100

139 21.7 16.6 24.8

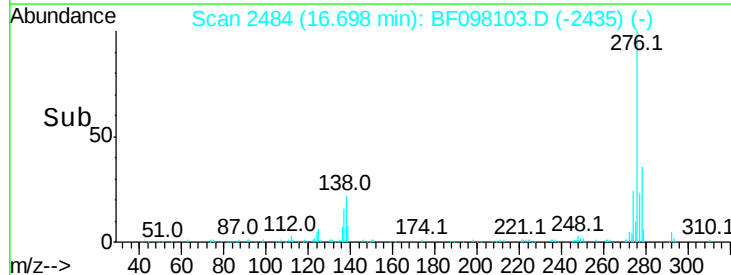
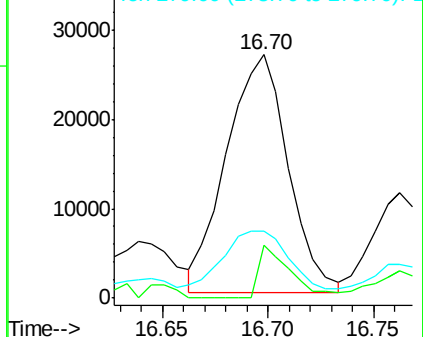
279 27.5 19.3 28.9

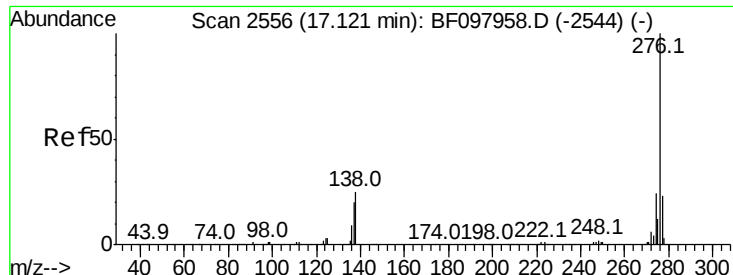


Abundance Ion 278.00 (277.70 to 278.70): E

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: 13.753 ng

RT: 17.10 min Scan# 2553

Delta R.T. -0.01 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

Instrument :

BNA_F

ClientSampleId :

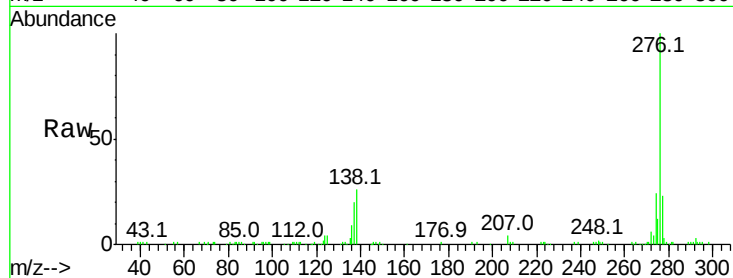
Tot Ion: 276 Resp: 153802

Ion Ratio Lower Upper

276 100

277 23.3 18.6 28.0

138 25.5 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

