

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 :
 SB-03-COMP

Quant Time: Aug 29 13:32:31 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

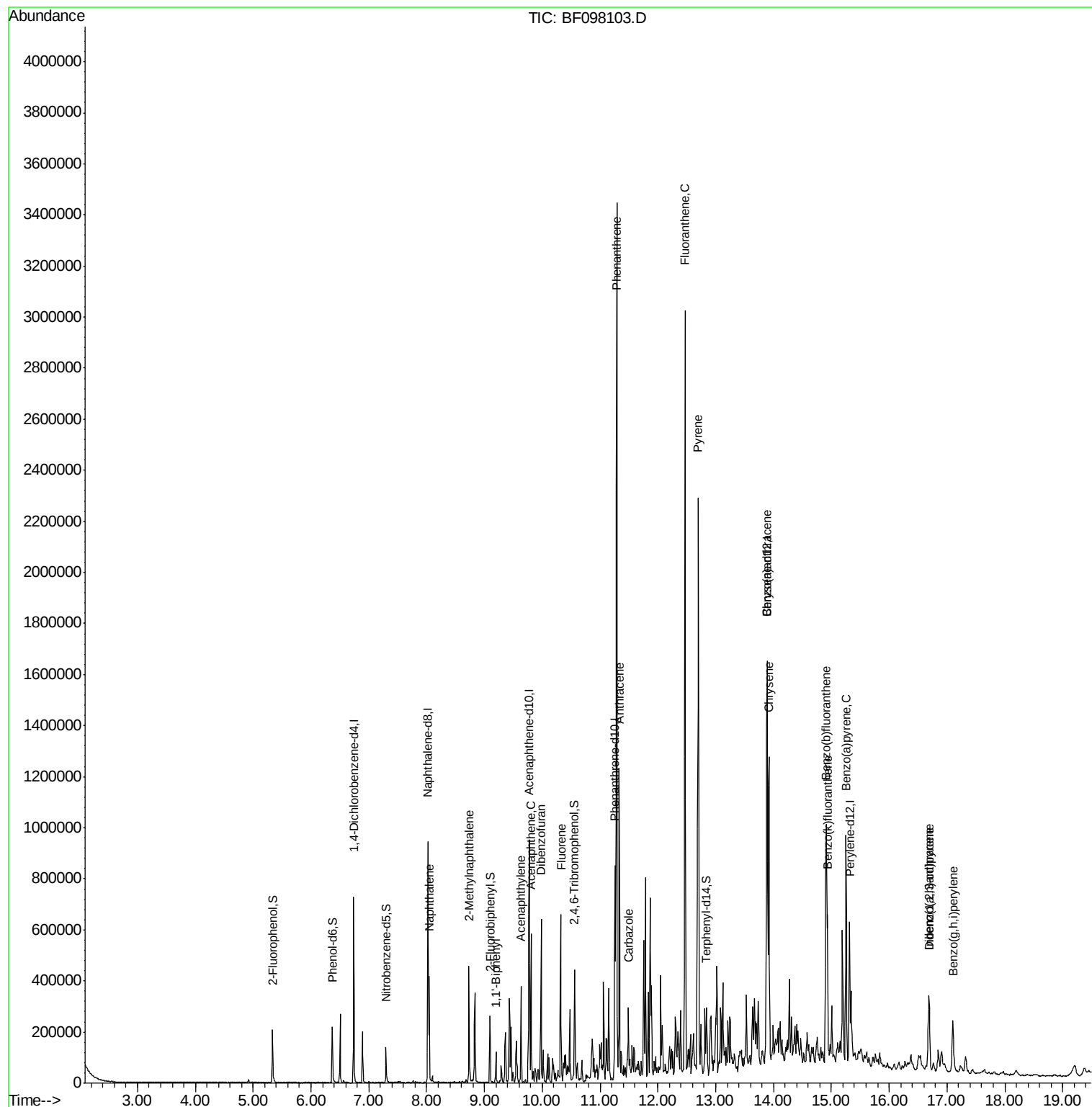
Target Compounds				Qvalue		
31) Naphthalene	8.05	128	174339	8.488	ng	98
37) 2-Methylnaphthalene	8.73	142	115566	9.177	ng	97
45) 1,1'-Biphenyl	9.20	154	34811	2.241	ng	94
48) Acenaphthylene	9.63	152	111470	6.184	ng	97
51) Acenaphthene	9.80	154	112464	9.893	ng	100
54) Dibenzofuran	9.98	168	225087	14.774	ng	99
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	525378m	35.329	ng	
88) Benzo(k)fluoranthene	14.93	252	159538m	11.419	ng	
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(a,h,i)perylene	17.10	276	153802	13.753	ng	94

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

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 :
SB-03-COMP

Quant Time: Aug 29 13:32:31 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



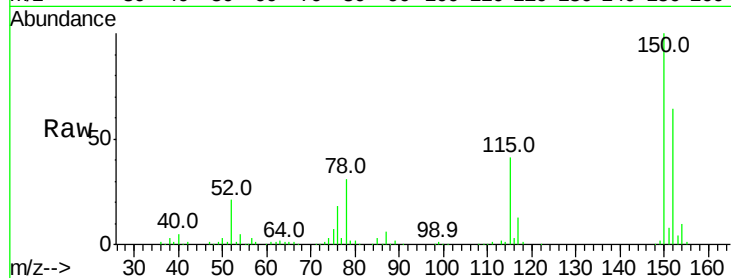


#1

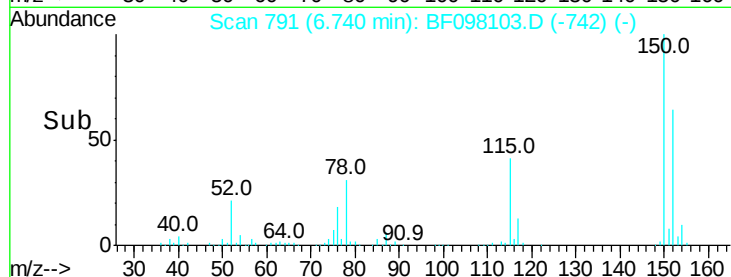
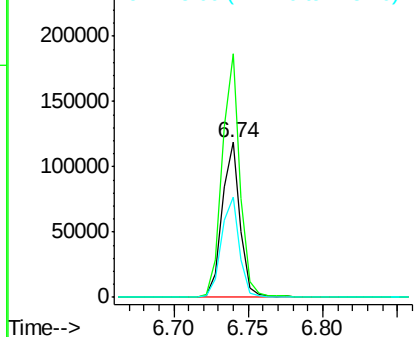
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.74 min Scan# 791
Delta R.T. -0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

Instrument :
BNA_F
ClientSampleId :
SB-03-COMP

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



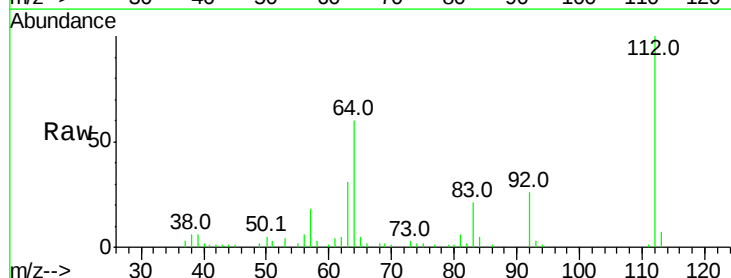
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



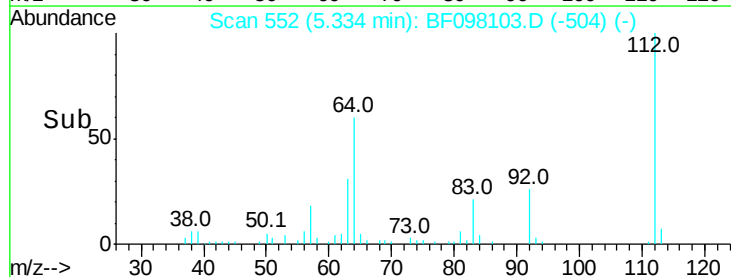
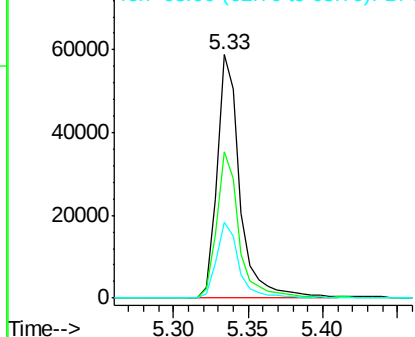
#5

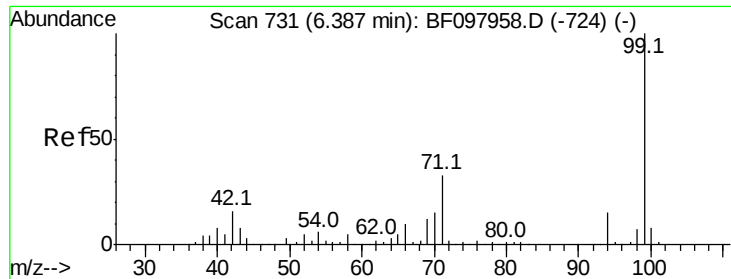
2-Fluorophenol
Concen: 9.508 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.02 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

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



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: 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 :

SB-03-COMP

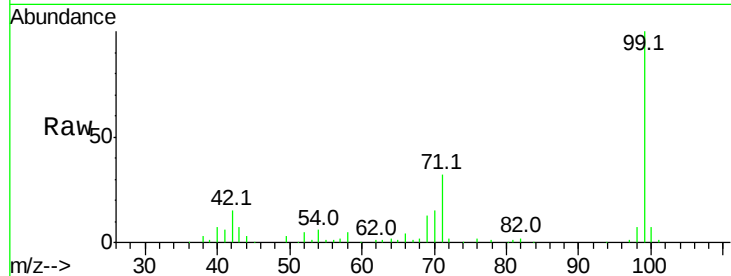
Tot Ion: 99 Resp: 87524

Ion Ratio Lower Upper

99 100

42 14.7 13.5 20.3

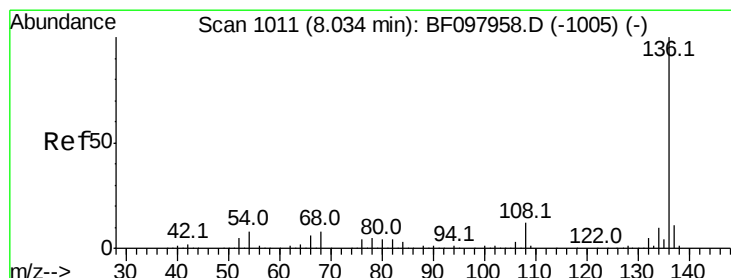
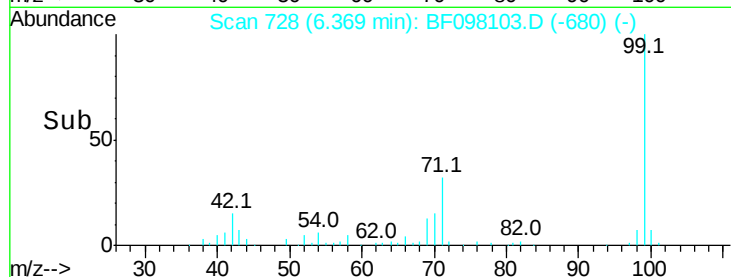
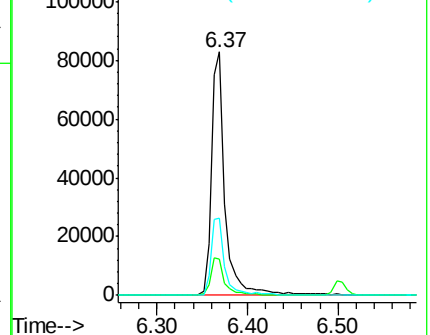
71 31.5 24.5 36.7



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

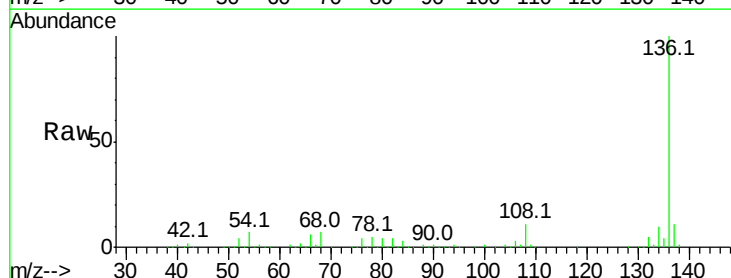
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.4 4.9 7.3#

68 6.8 4.1 6.1#

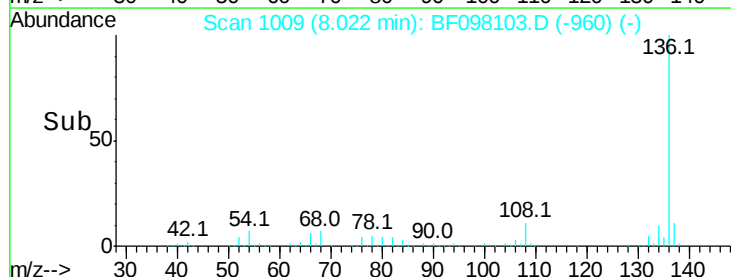
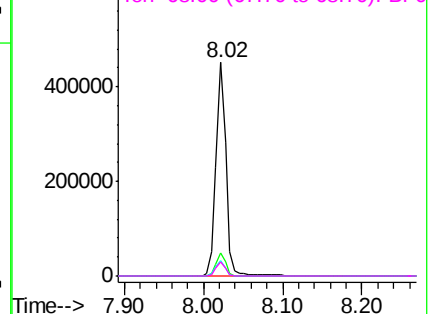


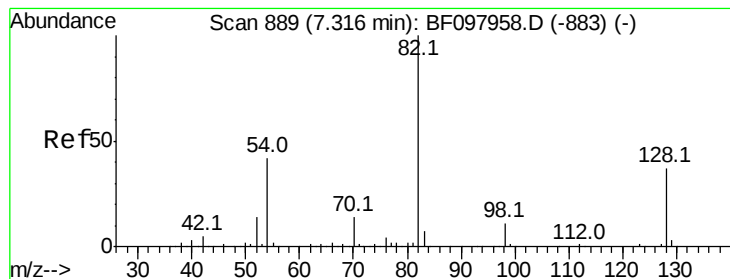
Abundance Ion 136.00 (135.70 to 136.70): E

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 :

SB-03-COMP

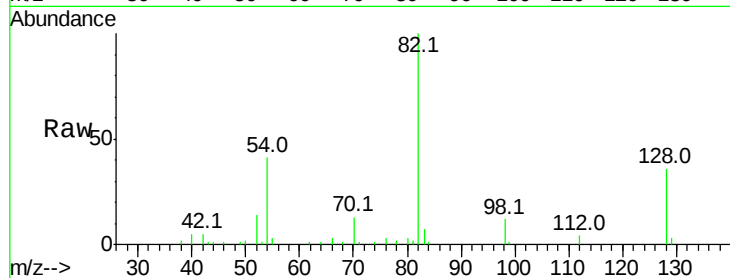
Tot Ion: 82 Resp: 48762

Ion Ratio Lower Upper

82 100

128 35.6 34.0 51.0

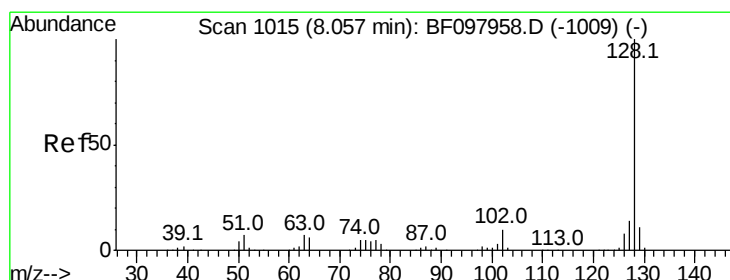
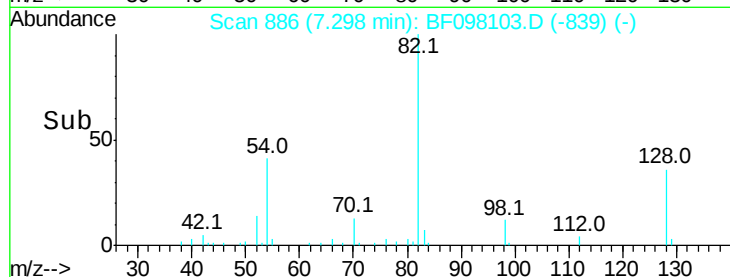
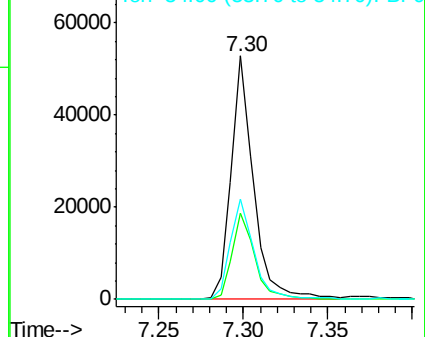
54 41.4 42.2 63.2#



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: 8.488 ng

RT: 8.05 min Scan# 1013

Delta R.T. -0.01 min

Lab File: BF098103.D

Acq: 29 Aug 2017 8:53

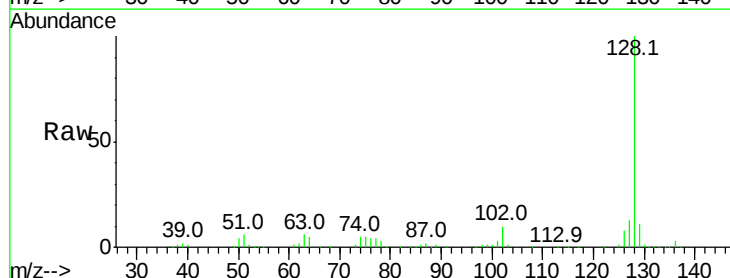
Tgt Ion: 128 Resp: 174339

Ion Ratio Lower Upper

128 100

129 10.6 9.0 13.6

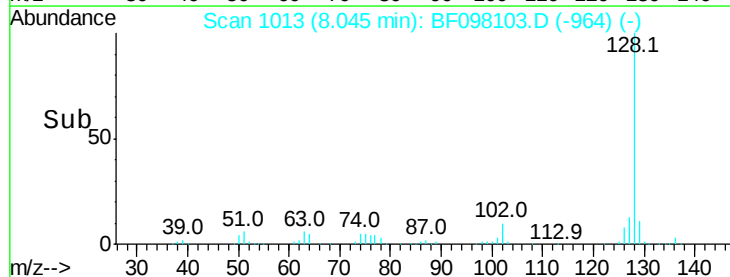
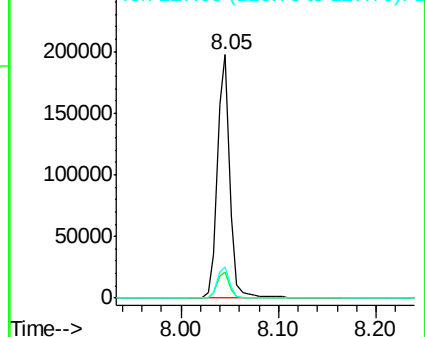
127 13.0 10.8 16.2

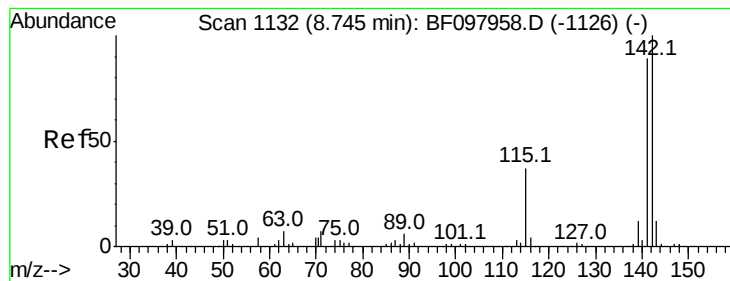


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

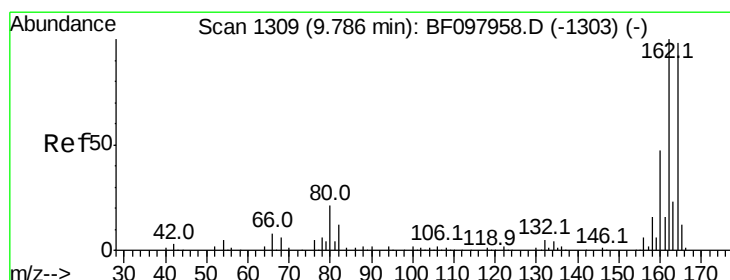
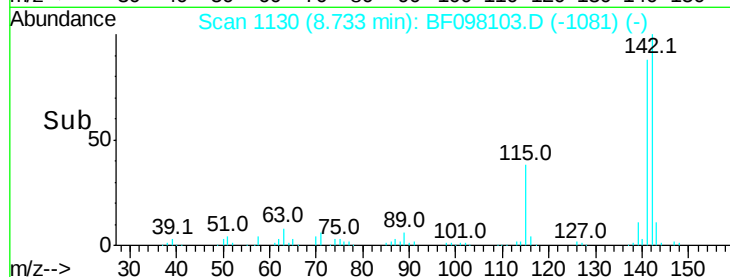
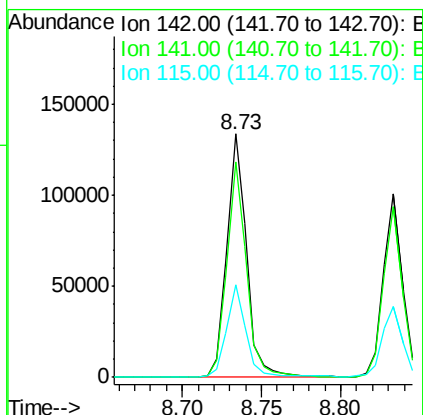
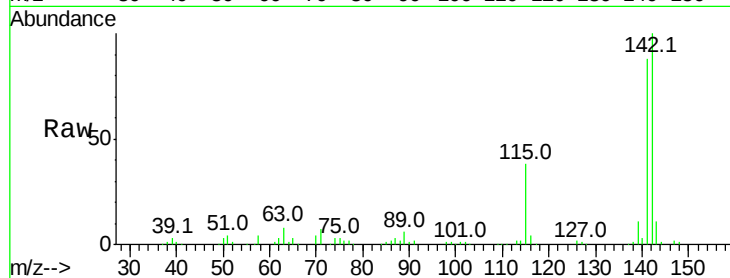




#37
 2-Methylnaphthalene
 Concen: 9.177 ng
 RT: 8.73 min Scan# 1130
 Delta R.T. -0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

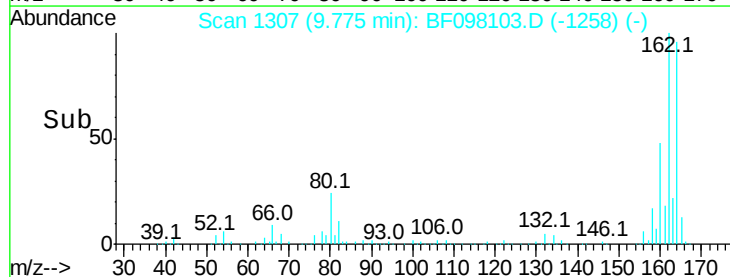
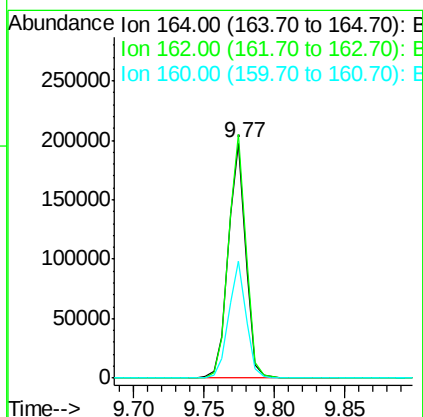
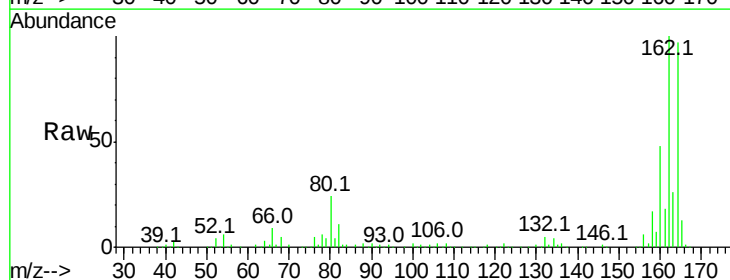
Instrument :
 BNA_F
 ClientSampleId :
 SB-03-COMP

Tot 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

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	82.6	123.8
160	49.9	36.2	54.2

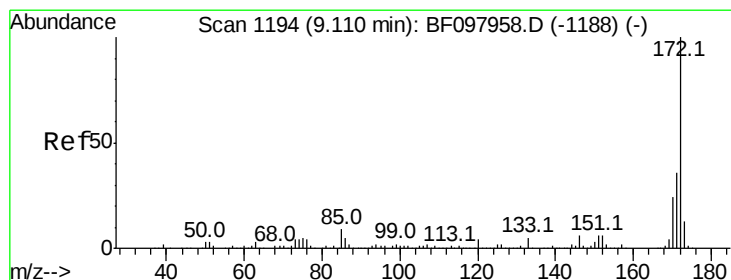
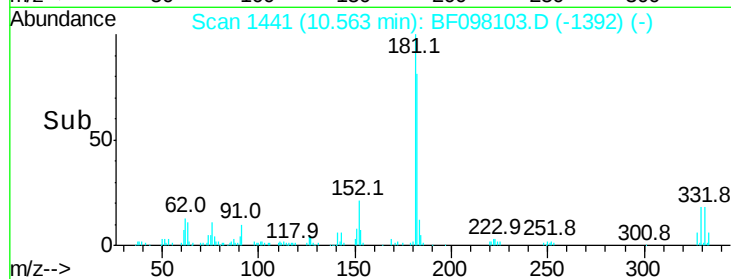
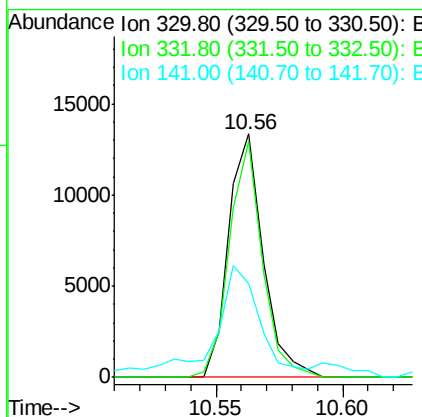
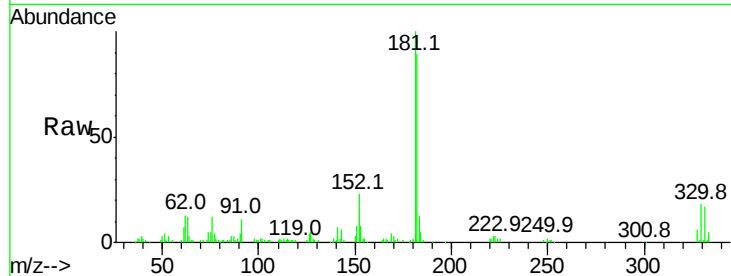




#41
 2,4,6-Tribromophenol
 Concen: 8.562 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

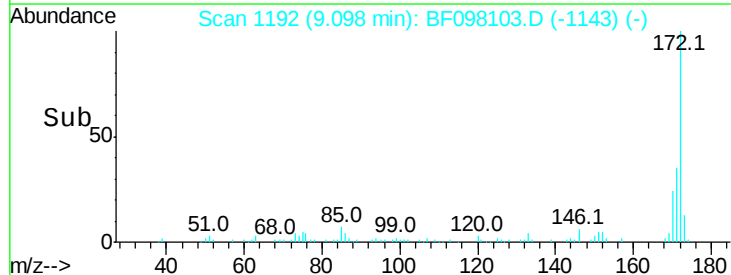
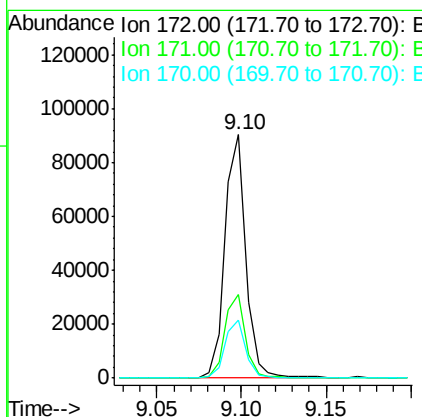
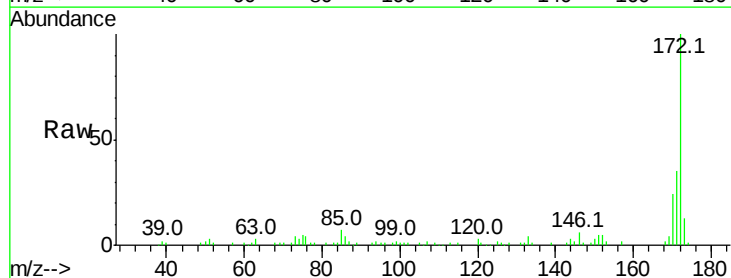
Instrument :
 BNA_F
 ClientSampleId :
 SB-03-COMP

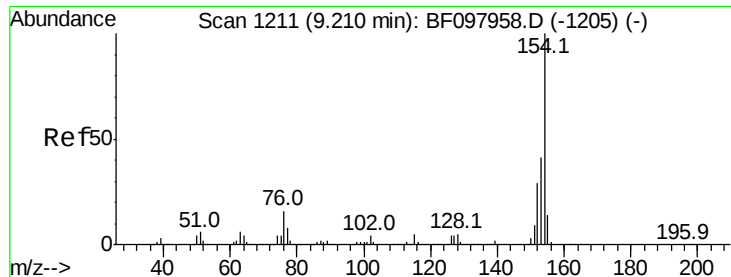
Tot Ion	Ratio	Lower	Upper
330	100		
332	92.3	76.6	115.0
141	63.8	31.4	47.2#



#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

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	29.6	44.4
170	23.8	19.8	29.8





#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

Instrument :

BNA_F

ClientSampleId :

SB-03-COMP

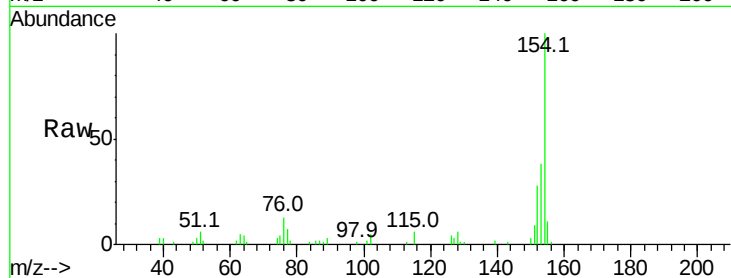
Tot Ion:154 Resp: 34811

Ion Ratio Lower Upper

154 100

153 37.7 21.2 61.2

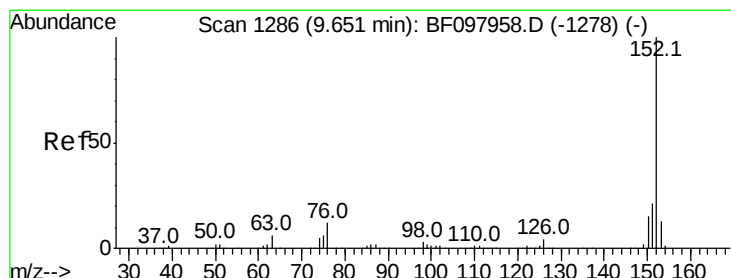
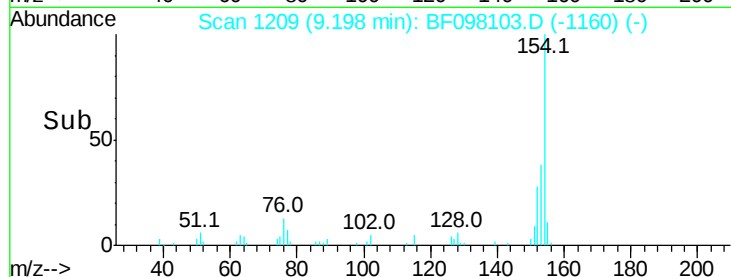
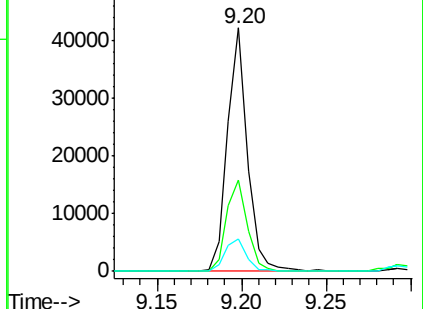
76 13.1 0.0 29.9



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

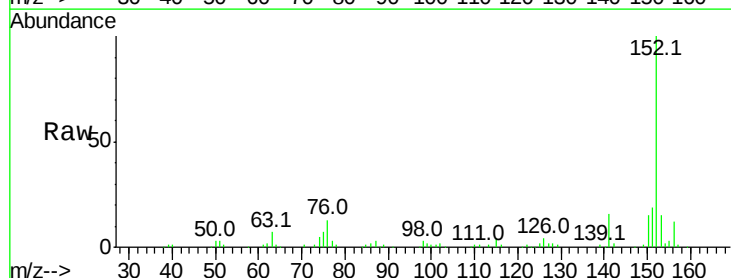
Tgt Ion:152 Resp: 111470

Ion Ratio Lower Upper

152 100

151 19.4 16.8 25.2

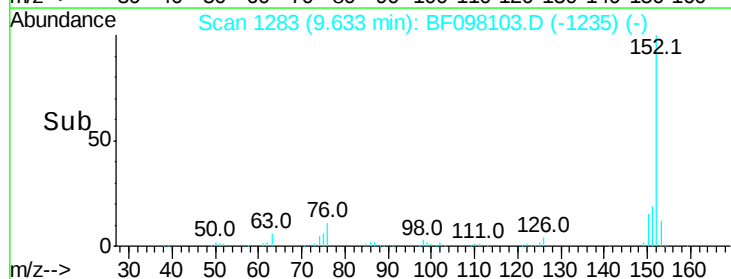
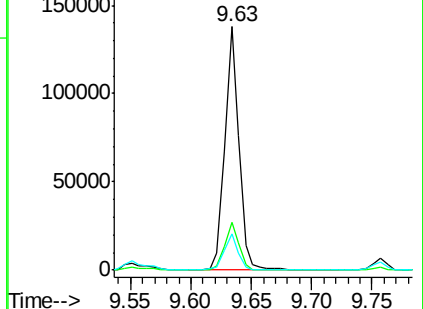
153 14.7 10.8 16.2

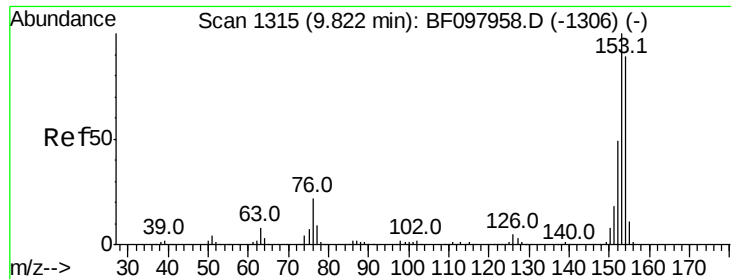


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#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 :

SB-03-COMP

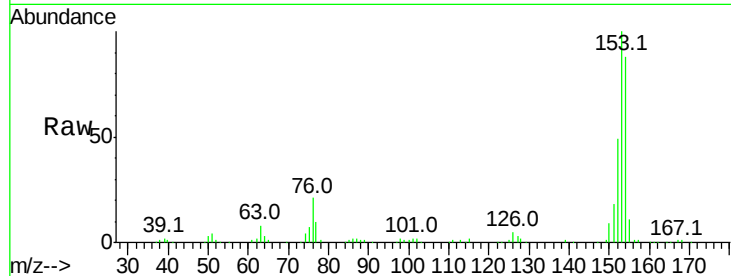
Tot Ion:154 Resp: 112464

Ion Ratio Lower Upper

154 100

153 113.3 90.5 135.7

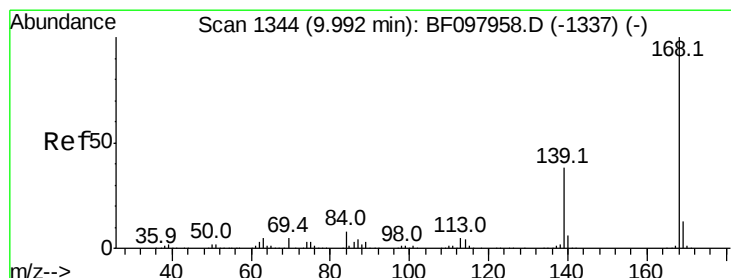
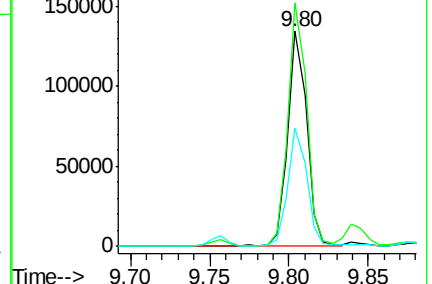
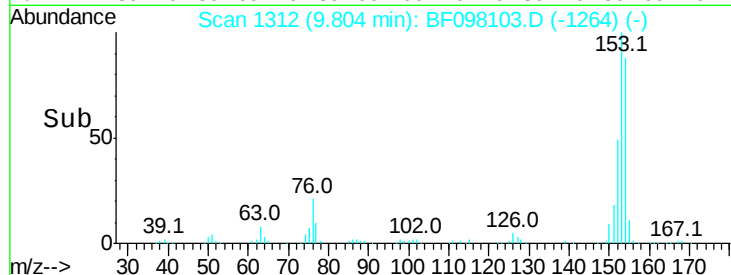
152 55.1 43.6 65.4



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

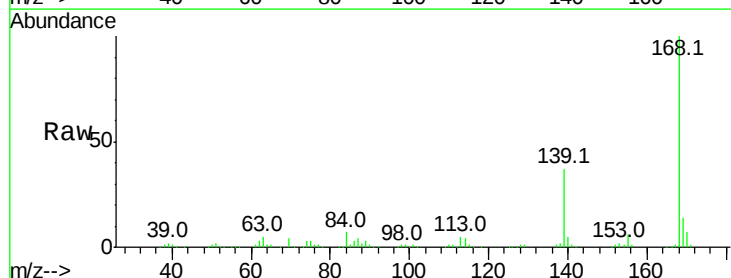
Tgt Ion:168 Resp: 225087

Ion Ratio Lower Upper

168 100

139 37.5 30.6 45.8

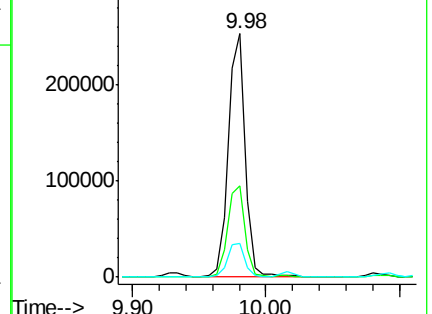
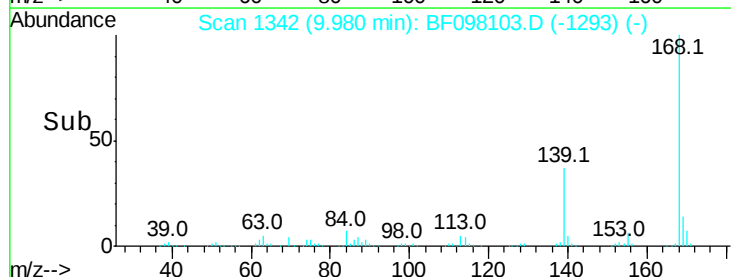
169 14.1 10.8 16.2

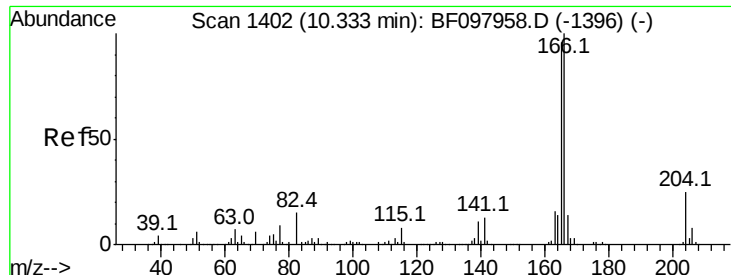


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

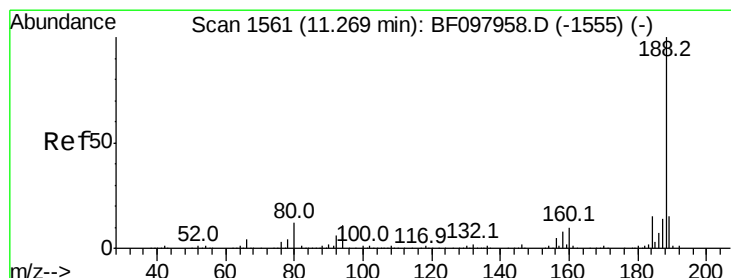
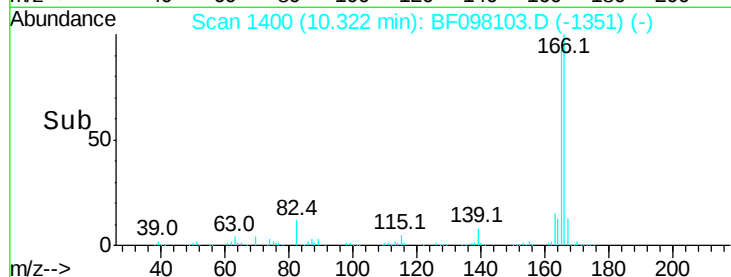
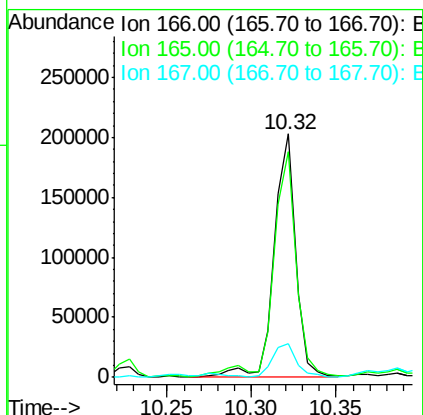
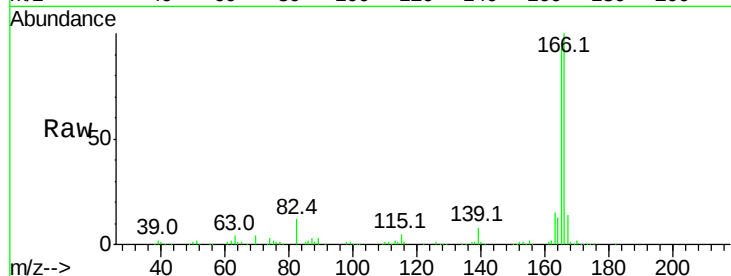




#57
Fluorene
 Concen: 15.114 ng
 RT: 10.32 min Scan# 1400
 Delta R.T. -0.01 min
 Lab File: BF098103.D
 Acq: 29 Aug 2017 8:53

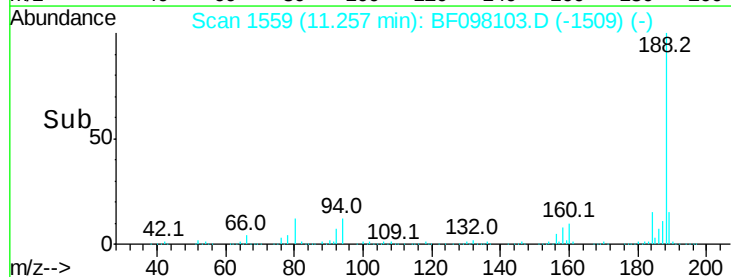
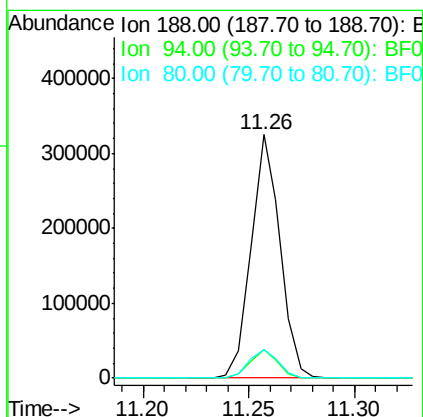
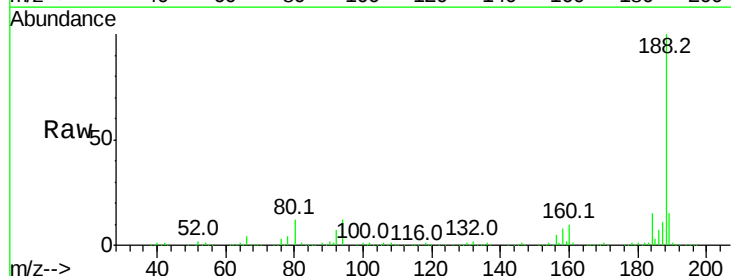
Instrument :
 BNA_F
 ClientSampleId :
 SB-03-COMP

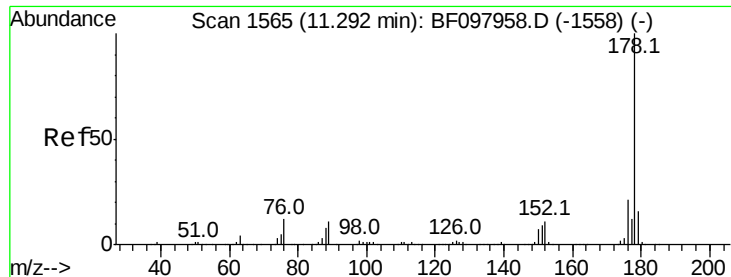
Tot Ion:166 Resp: 178032
 Ion Ratio Lower Upper
 166 100
 165 92.8 78.8 118.2
 167 13.6 10.6 16.0



#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

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

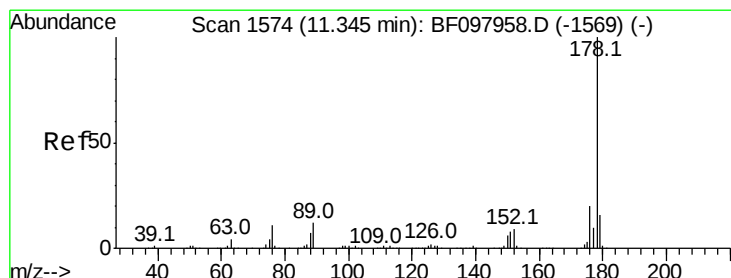
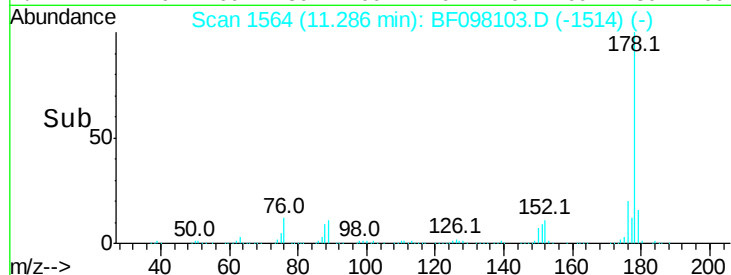
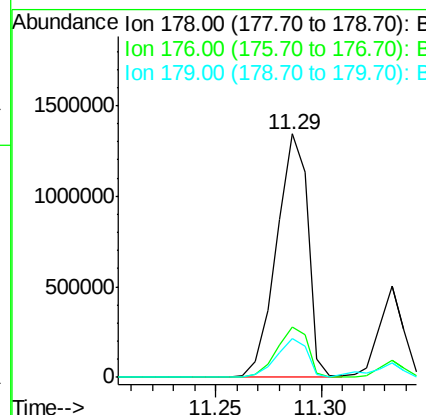
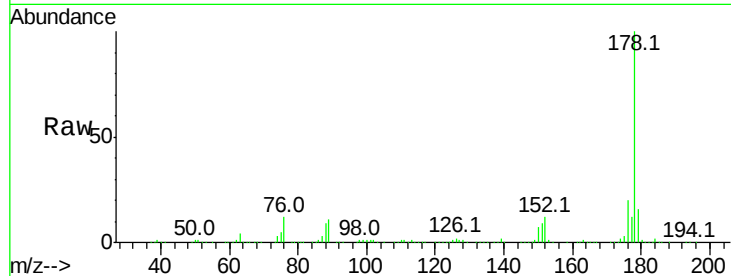




#70
Phenanthrene
Concen: 84.282 ng
RT: 11.29 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

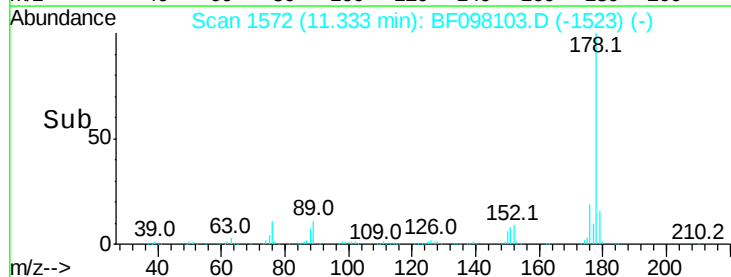
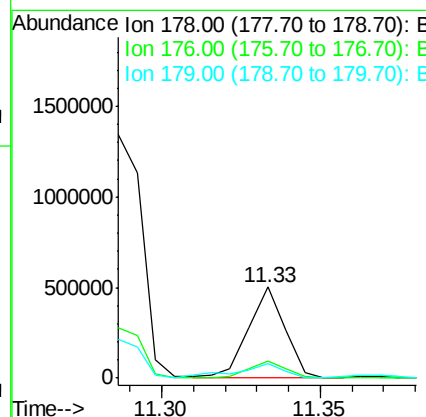
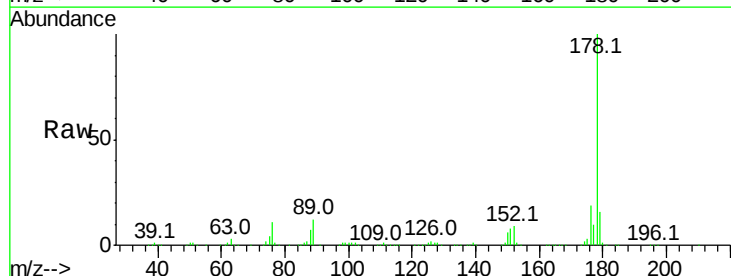
Instrument :
BNA_F
ClientSampleId :
SB-03-COMP

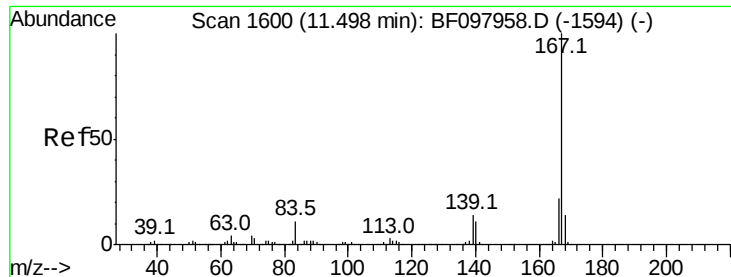
Tot Ion:178 Resp: 1389947
Ion Ratio Lower Upper
178 100
176 20.4 16.2 24.4
179 16.0 12.6 19.0



#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

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





#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

Instrument :

BNA_F

ClientSampleId :

SB-03-COMP

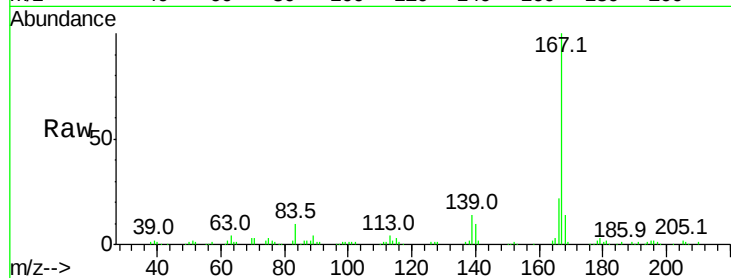
Tot Ion:167 Resp: 92657

Ion Ratio Lower Upper

167 100

166 22.2 18.1 27.1

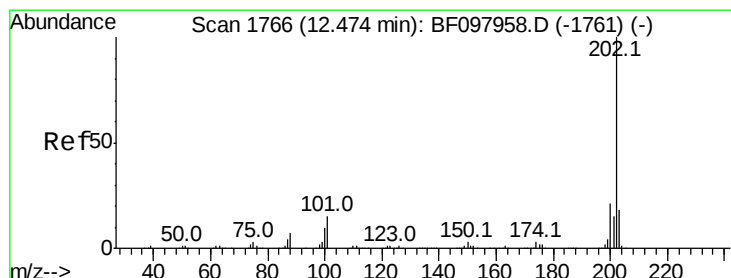
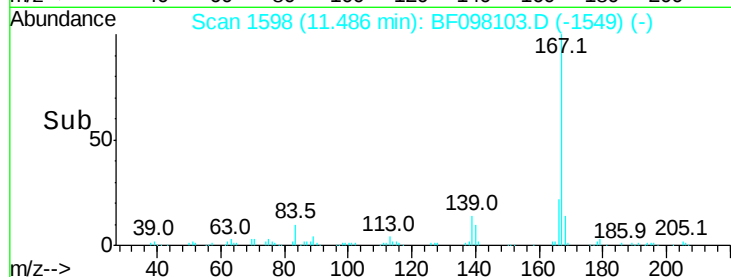
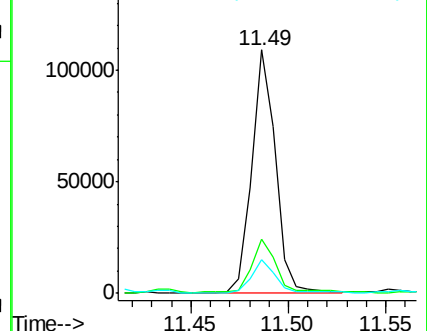
139 13.8 11.7 17.5



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

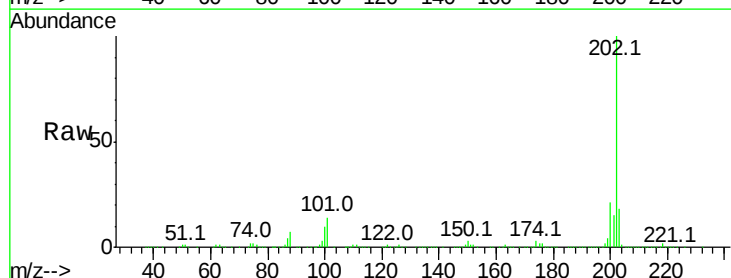
Tgt Ion:202 Resp: 1203761

Ion Ratio Lower Upper

202 100

101 14.1 0.0 33.2

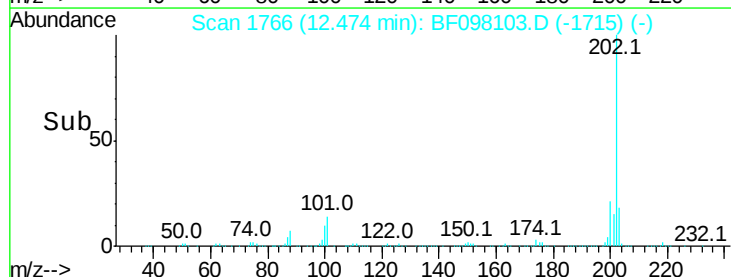
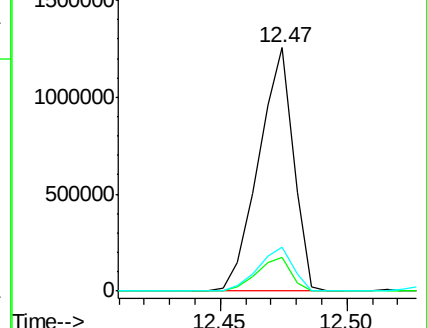
203 18.1 0.0 38.1

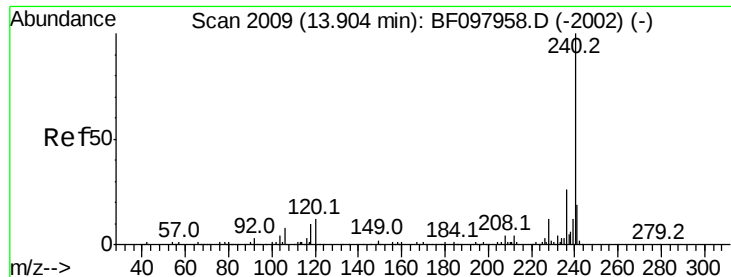


Abundance Ion 202.00 (201.70 to 202.70): E

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

Instrument :

BNA_F

ClientSampleId :

SB-03-COMP

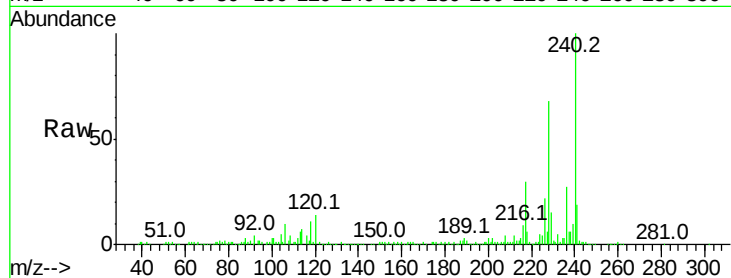
Tot Ion:240 Resp: 225441

Ion Ratio Lower Upper

240 100

120 13.9 5.8 8.8#

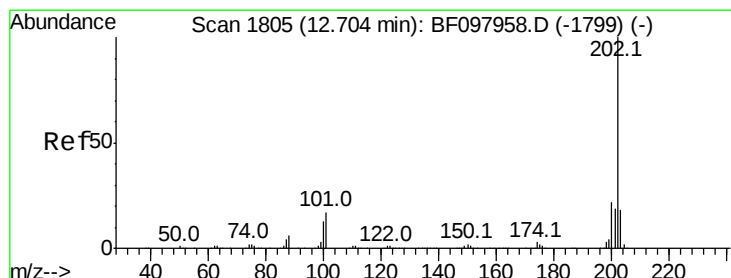
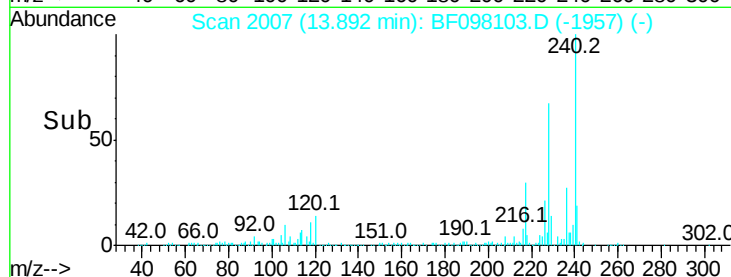
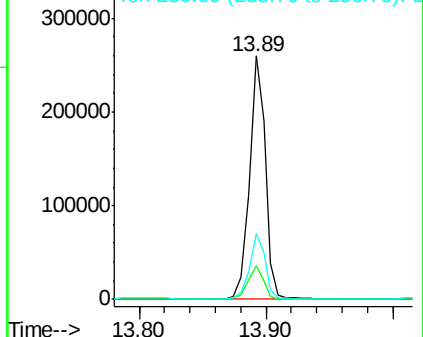
236 26.8 20.5 30.7



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

Pyrene

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

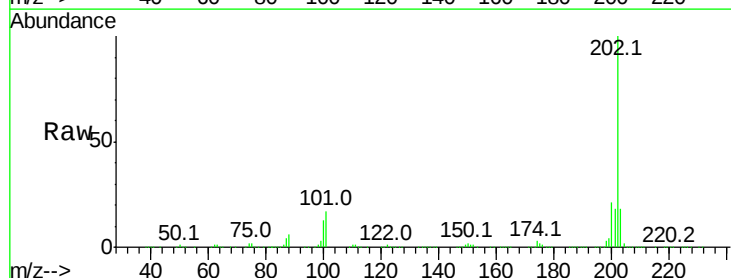
Tgt Ion:202 Resp: 1039154

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

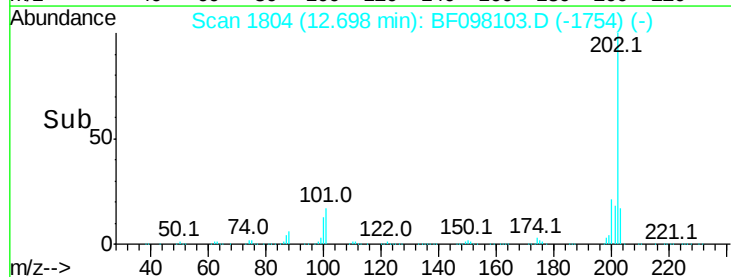
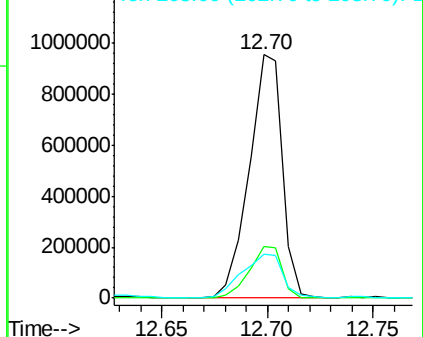
203 18.1 14.4 21.6

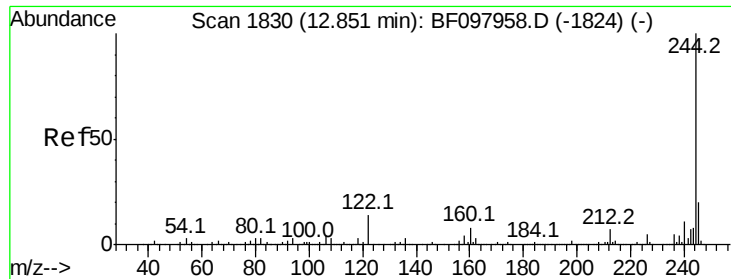


Abundance Ion 202.00 (201.70 to 202.70): E

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

Instrument :

BNA_F

ClientSampleId :

SB-03-COMP

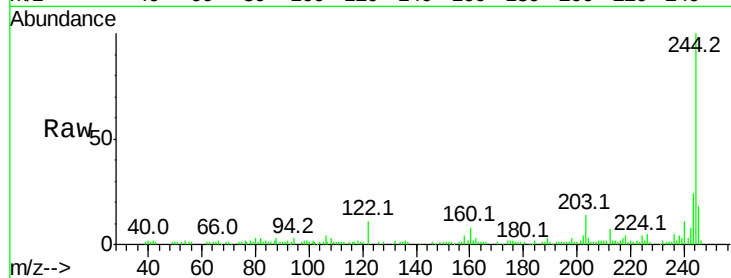
Tot Ion:244 Resp: 58843

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

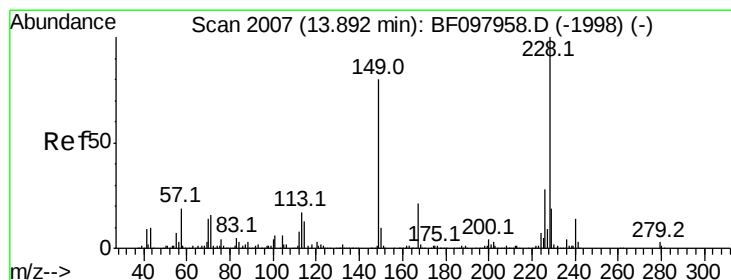
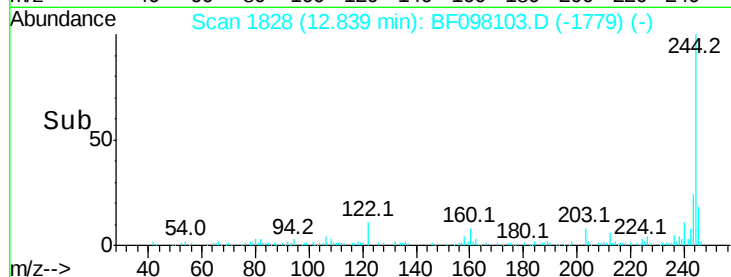
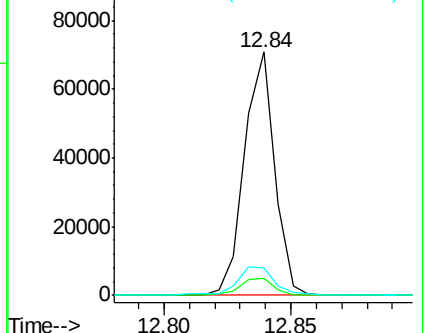
122 11.2 10.3 15.5



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

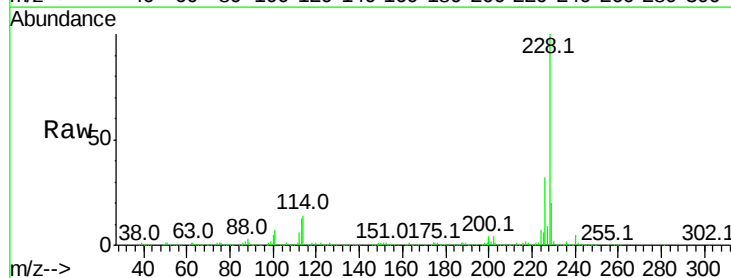
Tgt Ion:228 Resp: 520933

Ion Ratio Lower Upper

228 100

226 31.9 22.6 33.8

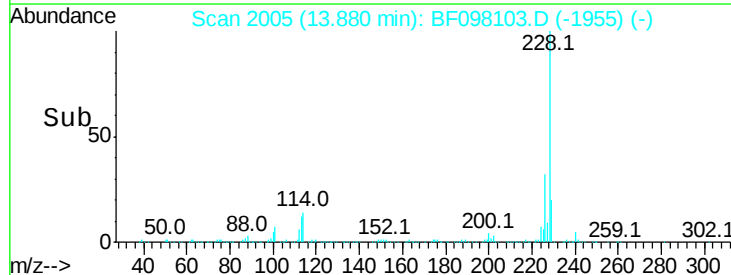
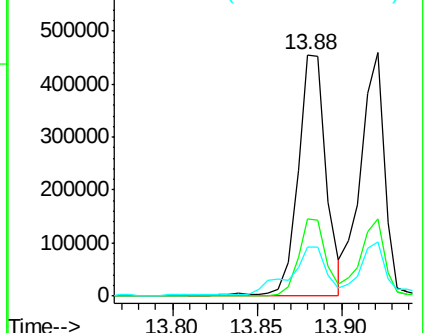
229 20.2 16.3 24.5

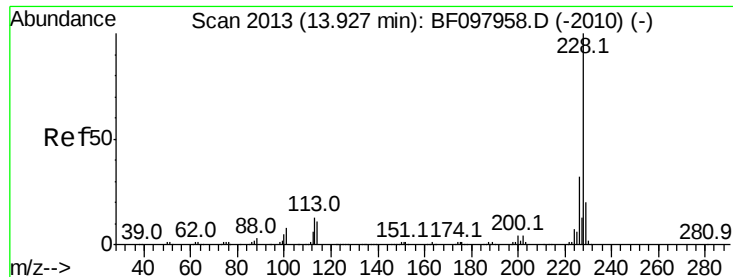


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 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

Instrument :

BNA_F

ClientSampleId :

SB-03-COMP

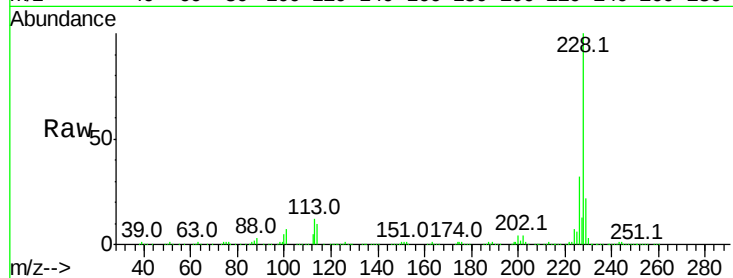
Tot Ion:228 Resp: 451160

Ion Ratio Lower Upper

228 100

226 31.7 24.9 37.3

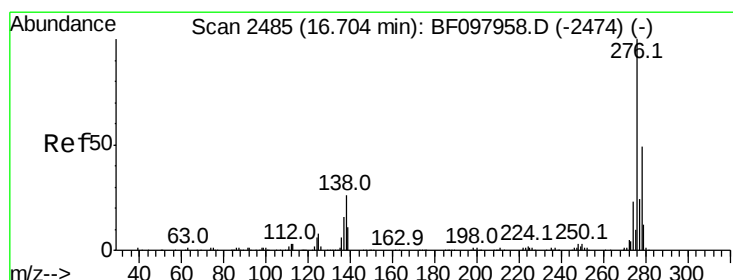
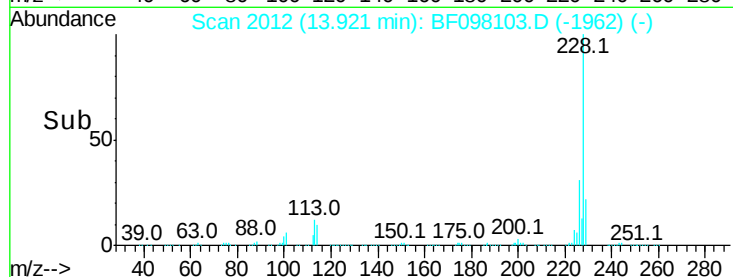
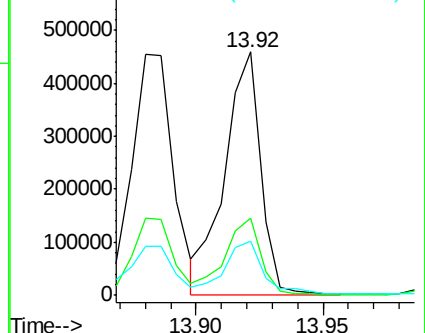
229 22.3 15.8 23.6



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: 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

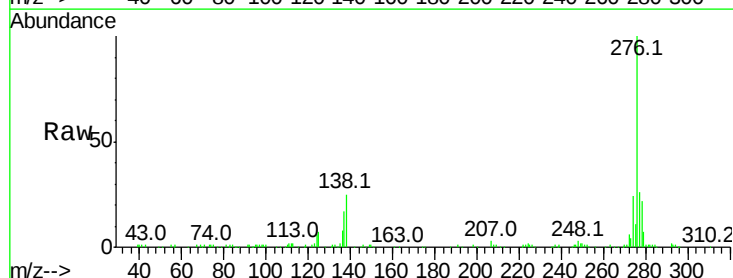
Tgt Ion:276 Resp: 186448

Ion Ratio Lower Upper

276 100

138 24.5 27.8 41.6#

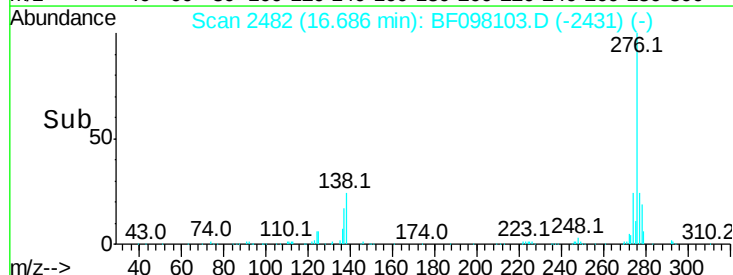
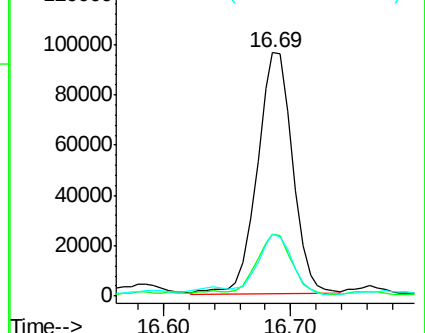
277 23.6 20.2 30.4

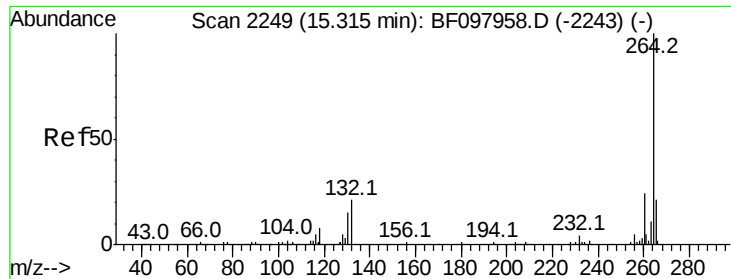


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

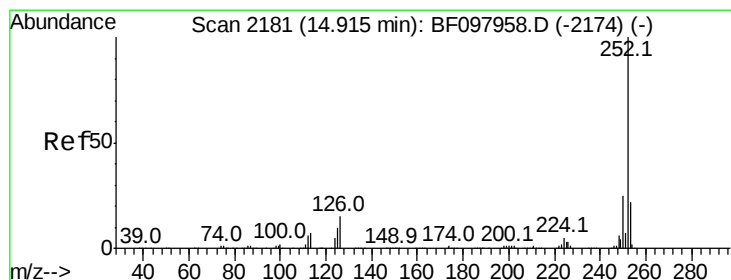
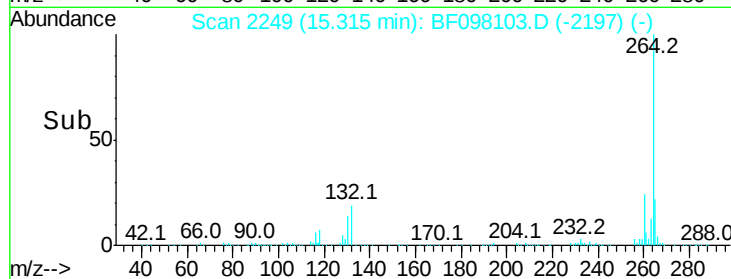
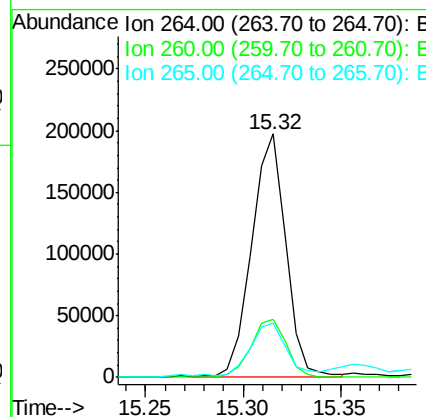
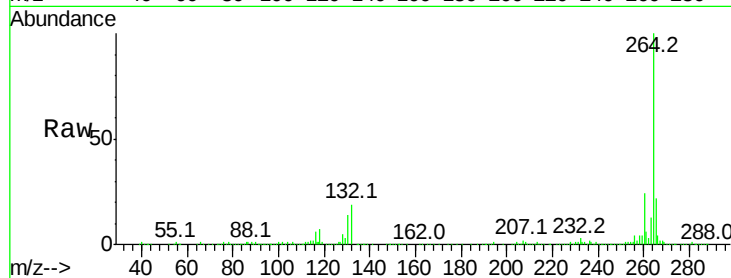




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2249
Delta R.T. 0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

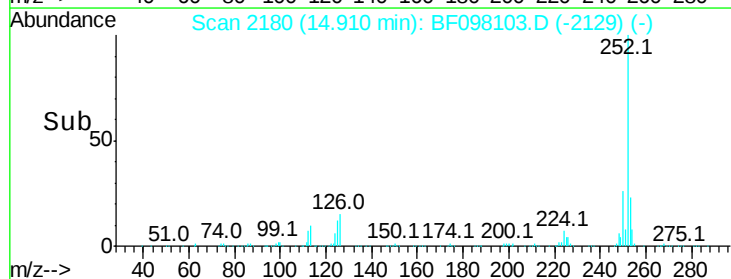
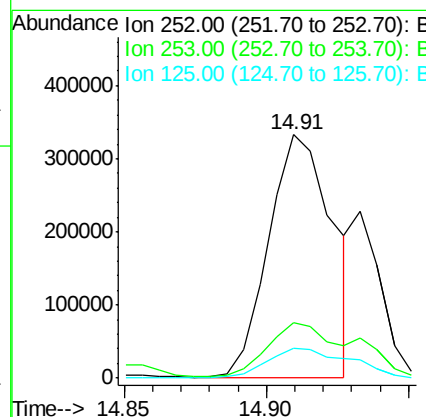
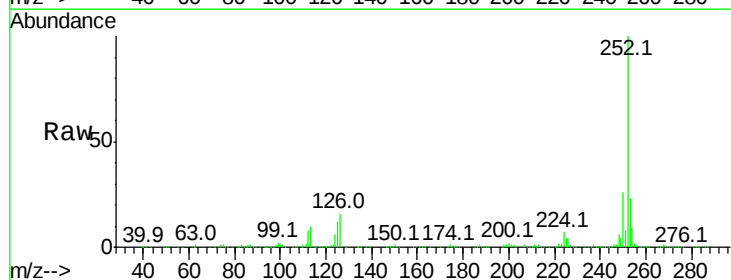
Instrument :
BNA_F
ClientSampleId :
SB-03-COMP

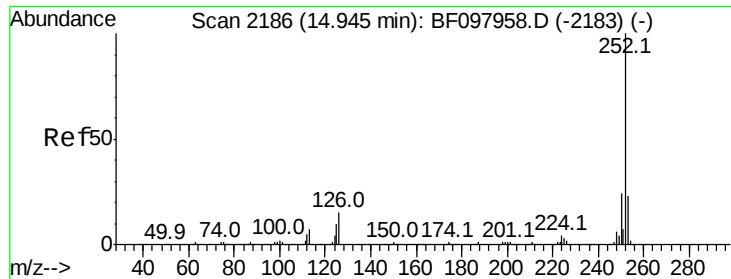
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	22.1	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 35.329 ng m
RT: 14.91 min Scan# 2180
Delta R.T. 0.00 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	12.2	9.8	14.8

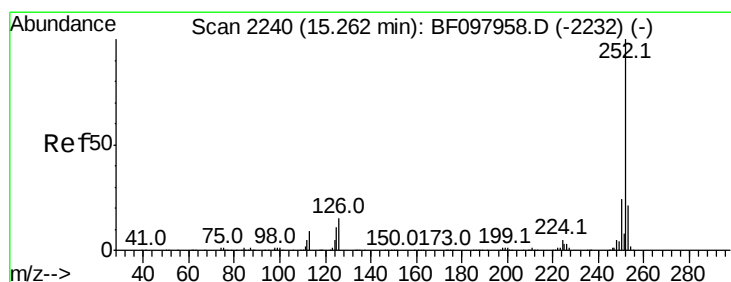
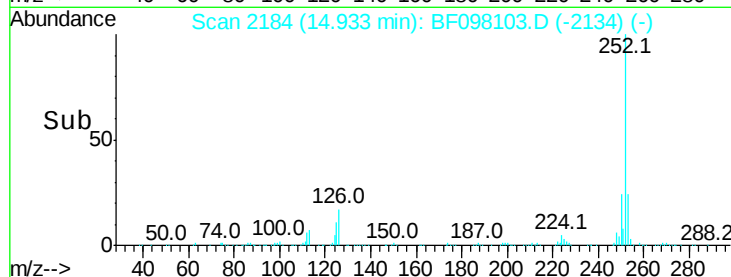
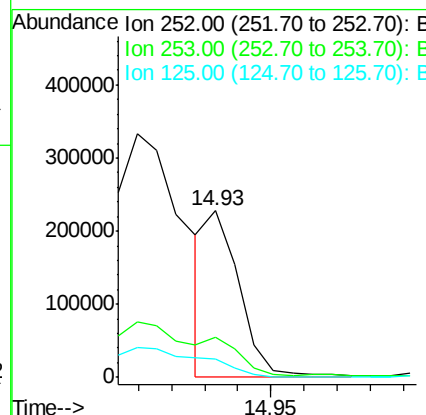
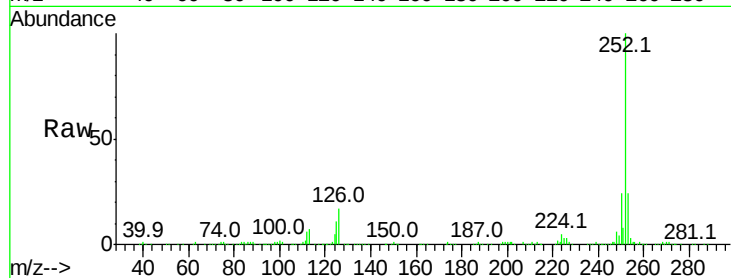




#88
Benzo(k)fluoranthene
Concen: 11.419 ng m
RT: 14.93 min Scan# 2184
Delta R.T. -0.01 min
Lab File: BF098103.D
Acq: 29 Aug 2017 8:53

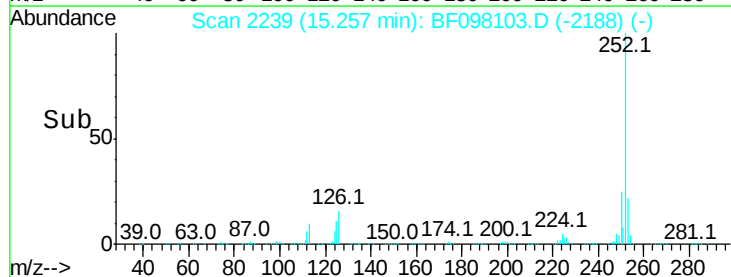
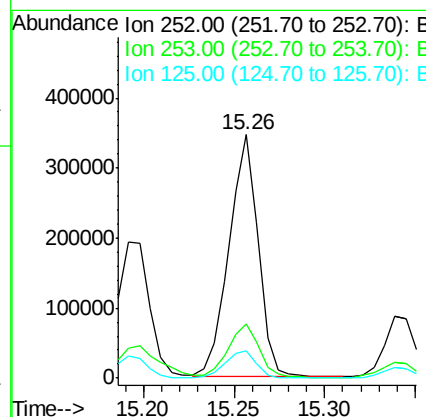
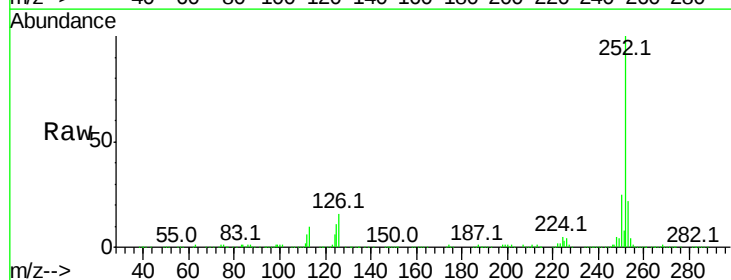
Instrument :
BNA_F
ClientSampleId :
SB-03-COMP

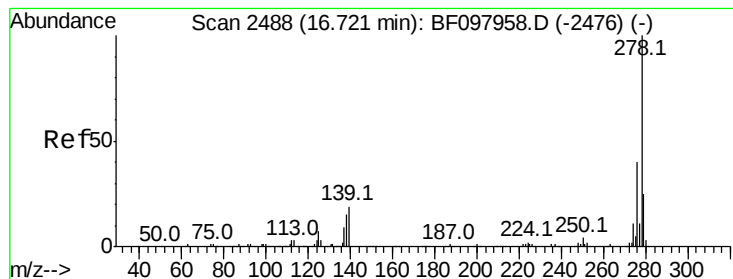
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.4	27.6
125	11.2	13.1	19.7



#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

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	11.4	11.0	16.4





#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

Instrument :

BNA_F

ClientSampleId :

SB-03-COMP

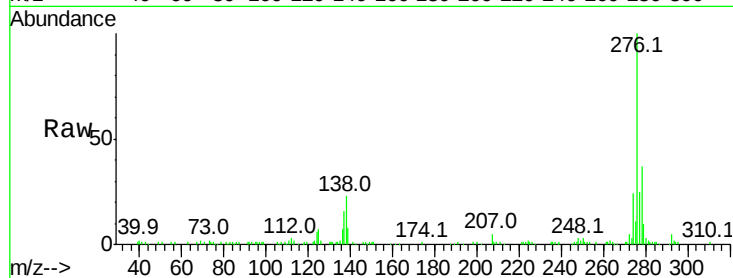
Tot Ion:278 Resp: 53923

Ion Ratio Lower Upper

278 100

139 21.7 16.6 24.8

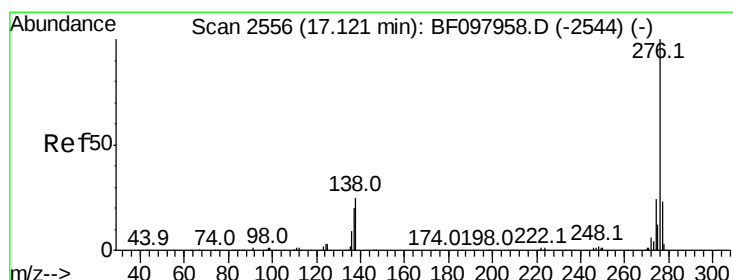
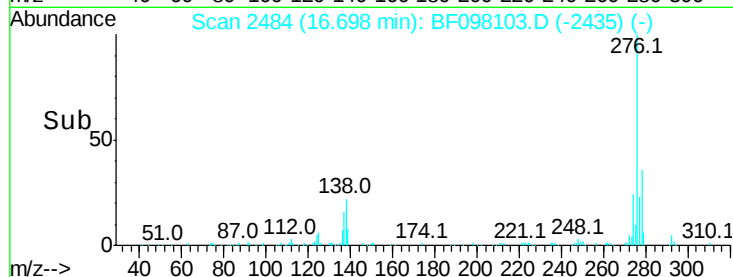
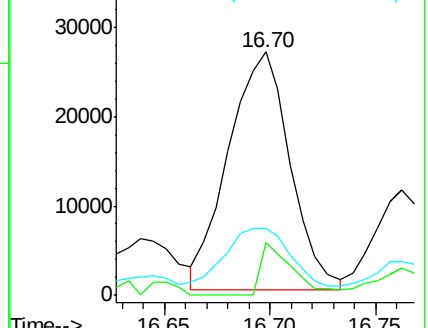
279 27.5 19.3 28.9



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(g,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

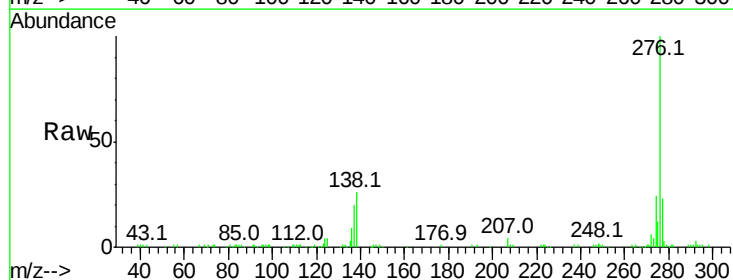
Tgt Ion:276 Resp: 153802

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

