

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094058.D
 Acq On : 30 Mar 2017 12:51
 Operator : SJ/MA
 Sample : I2443-11DL 5X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-SSWDL

Quant Time: Mar 30 13:20:29 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

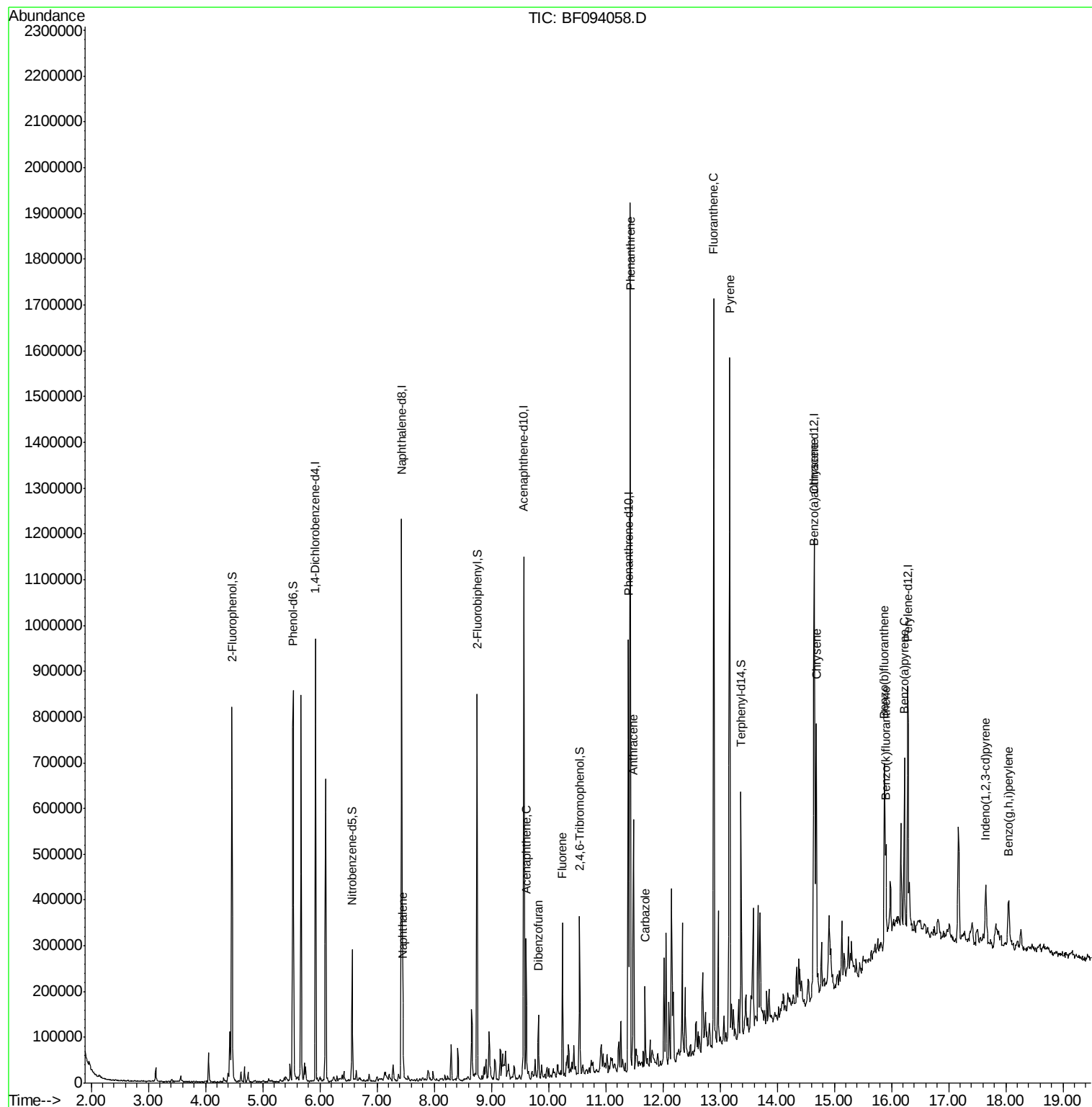
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	154189	20.00	ng	-0.03
21) Naphthalene-d8	7.43	136	587563	20.00	ng	-0.03
38) Acenaphthene-d10	9.57	164	245427	20.00	ng	-0.03
63) Phenanthrene-d10	11.40	188	377729	20.00	ng	-0.02
75) Chrysene-d12	14.65	240	297518	20.00	ng	-0.03
86) Perylene-d12	16.29	264	220961	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	232922	25.51	ng	-0.01
7) Phenol-d6	5.53	99	278529	24.66	ng	-0.02
23) Nitrobenzene-d5	6.56	82	102457	9.95	ng	-0.04
41) 2,4,6-Tribromophenol	10.55	330	34499	17.79	ng	-0.03
44) 2-Fluorobiphenyl	8.75	172	282451	17.55	ng	-0.03
78) Terphenyl-d14	13.37	244	180687	13.61	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	7.45	128	96109	3.40	ng	# 95
51) Acenaphthene	9.61	154	65162	4.34	ng	95
54) Dibenzofuran	9.82	168	53611	2.62	ng	95
57) Fluorene	10.25	166	92806	5.47	ng	99
70) Phenanthrene	11.43	178	768993	36.60	ng	98
71) Anthracene	11.49	178	220412	10.19	ng	98
72) Carbazole	11.69	167	69207	3.12	ng	97
74) Fluoranthene	12.89	202	713445	33.16	ng	99
77) Pyrene	13.17	202	626361	29.01	ng	98
80) Benzo(a)anthracene	14.64	228	269975m	15.56	ng	
82) Chrysene	14.69	228	254486m	15.81	ng	
85) Indeno(1,2,3-cd)pyrene	17.65	276	72398	5.19	ng	# 91
87) Benzo(b)fluoranthene	15.88	252	216224m	15.96	ng	
88) Benzo(k)fluoranthene	15.90	252	79901m	6.03	ng	
89) Benzo(a)pyrene	16.23	252	162764	13.05	ng	98
91) Benzo(g,h,i)perylene	18.05	276	71629	6.73	ng	96

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

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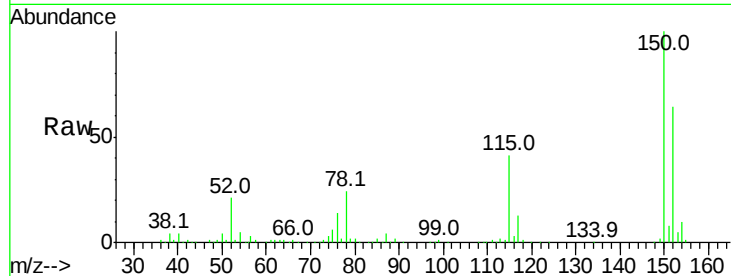


#1

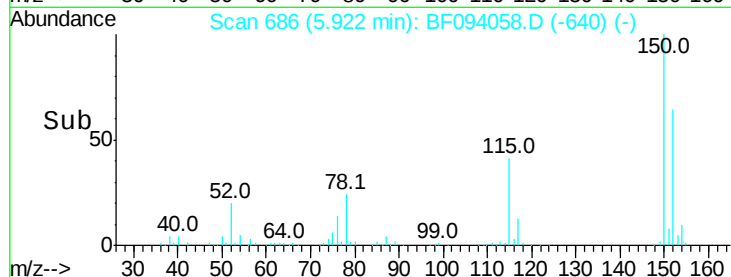
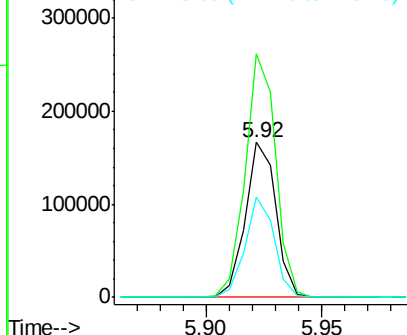
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.92 min Scan# 686
 Delta R.T. -0.03 min
 Lab File: BF094058.D
 Acq: 30 Mar 2017 12:51

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-SSWDL

Tot Ion:152 Resp: 154189
 Ion Ratio Lower Upper
 152 100
 150 157.4 126.2 189.2
 115 65.0 52.2 78.2



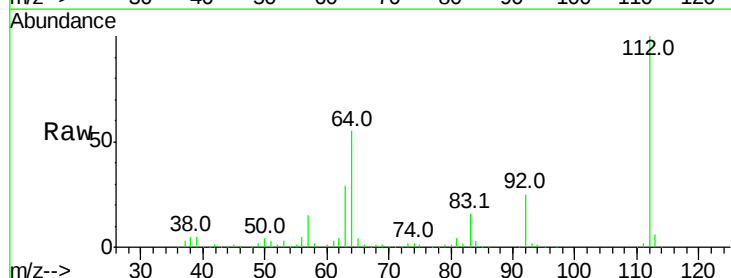
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



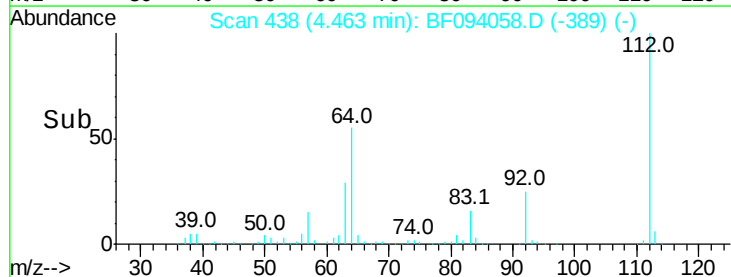
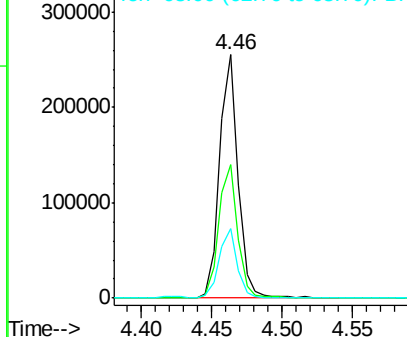
#5

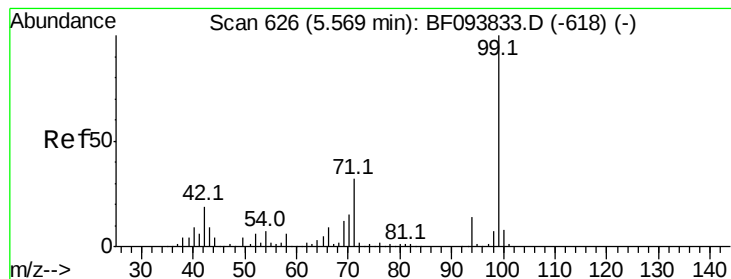
2-Fluorophenol
 Concen: 25.51 ng
 RT: 4.46 min Scan# 438
 Delta R.T. -0.01 min
 Lab File: BF094058.D
 Acq: 30 Mar 2017 12:51

Tgt Ion:112 Resp: 232922
 Ion Ratio Lower Upper
 112 100
 64 54.7 46.0 69.0
 63 28.6 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 24.66 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.02 min

Lab File: BF094058.D

Acq: 30 Mar 2017 12:51

Instrument :

BNA_F

ClientSampleId :

E2-AA9-SSWDL

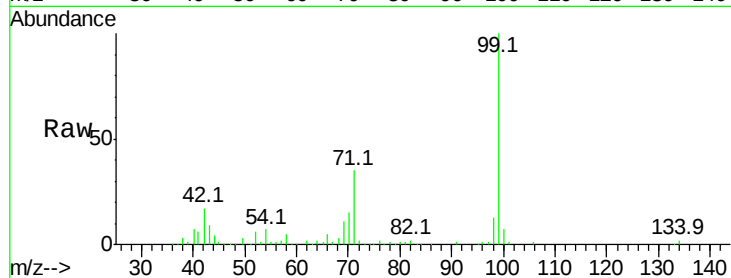
Tot Ion: 99 Resp: 278529

Ion Ratio Lower Upper

99 100

42 17.0 13.5 20.3

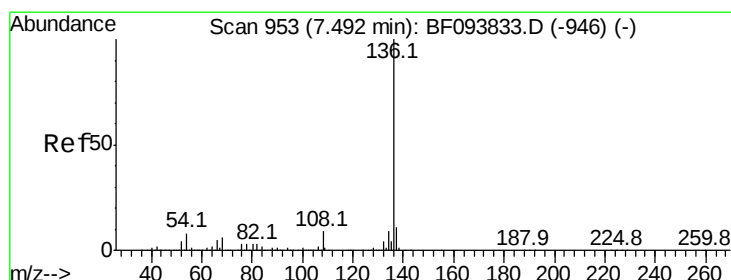
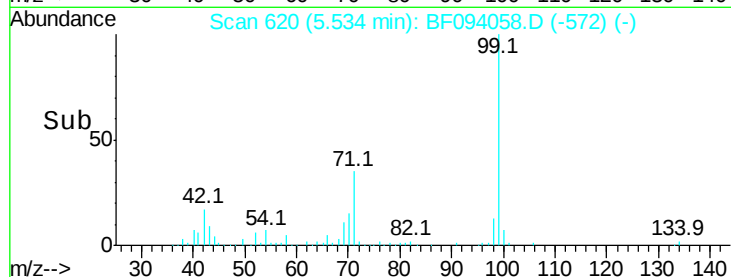
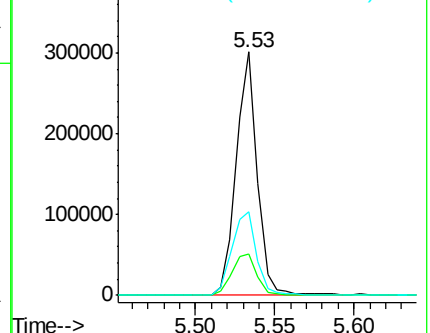
71 34.6 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094058.D

Acq: 30 Mar 2017 12:51

Tgt Ion: 136 Resp: 587563

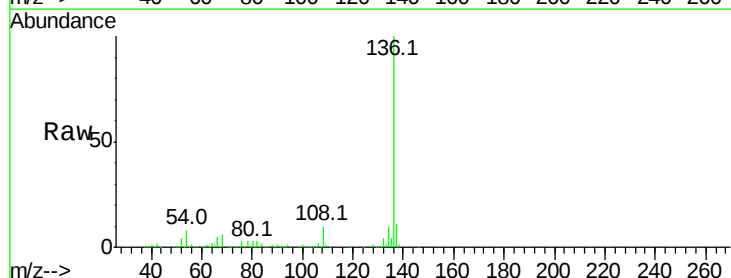
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 7.8 4.9 7.3#

68 6.1 4.1 6.1#

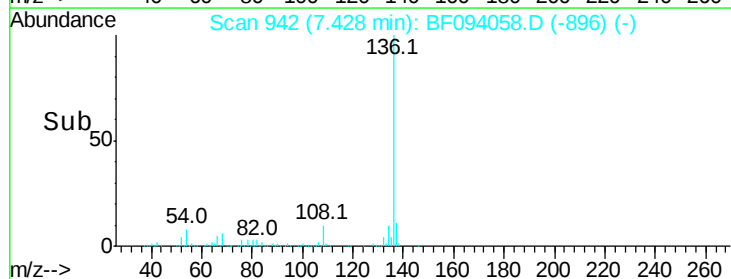
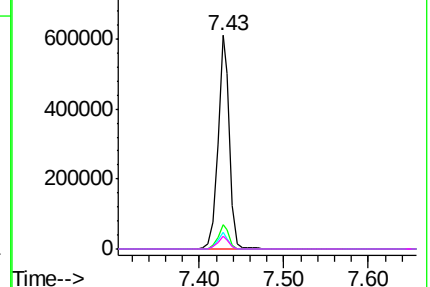


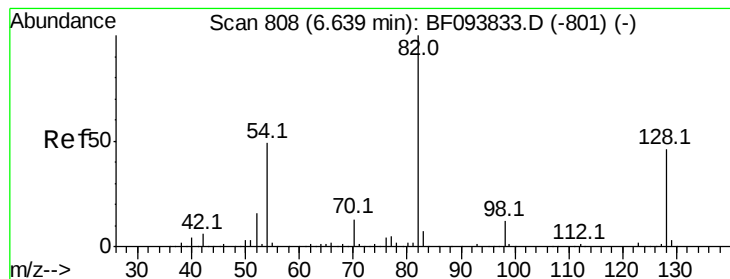
Abundance Ion 136.00 (135.70 to 136.70): E

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: 9.95 ng

RT: 6.56 min Scan# 795

Delta R.T. -0.04 min

Lab File: BF094058.D

Acq: 30 Mar 2017 12:51

Instrument :

BNA_F

ClientSampleId :

E2-AA9-SSWDL

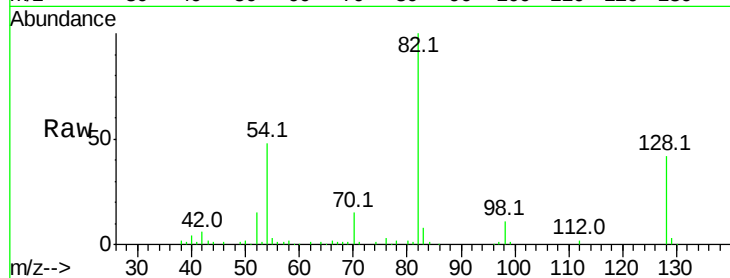
Tot Ion: 82 Resp: 102457

Ion Ratio Lower Upper

82 100

128 42.4 34.0 51.0

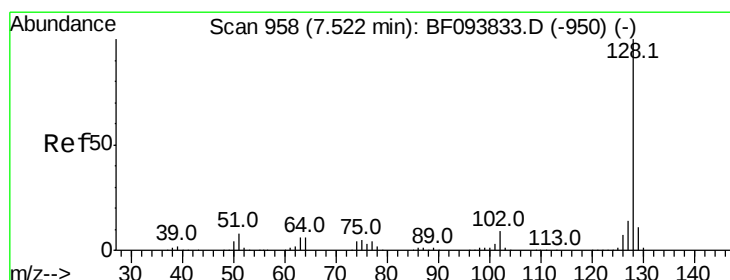
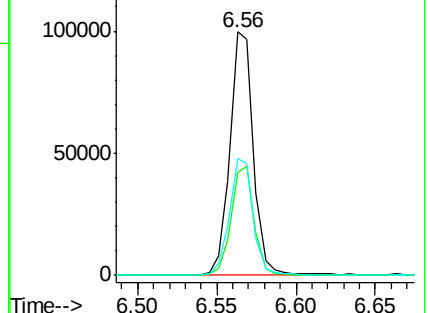
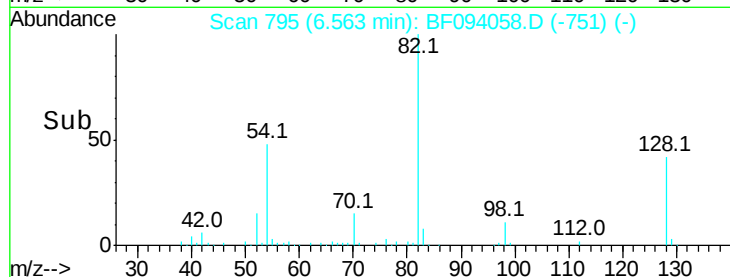
54 48.0 42.2 63.2



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: 3.40 ng

RT: 7.45 min Scan# 946

Delta R.T. -0.04 min

Lab File: BF094058.D

Acq: 30 Mar 2017 12:51

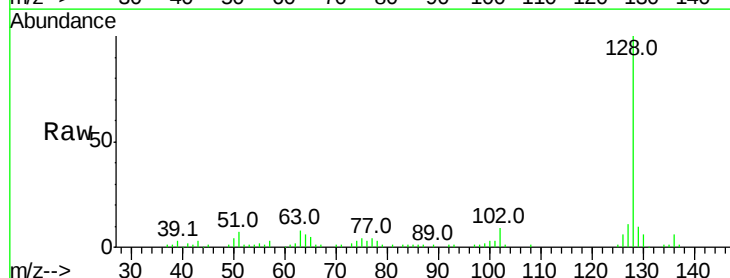
Tgt Ion:128 Resp: 96109

Ion Ratio Lower Upper

128 100

129 10.4 9.0 13.6

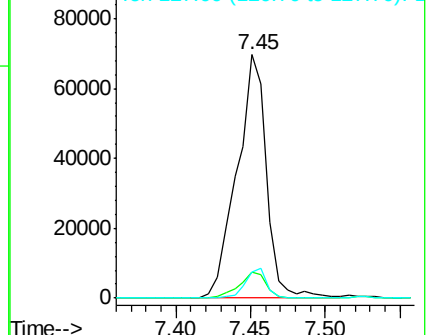
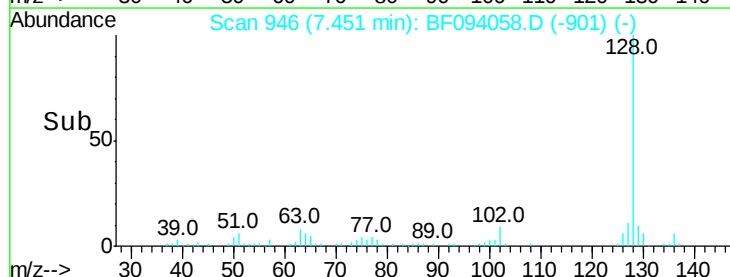
127 10.8 10.8 16.2#

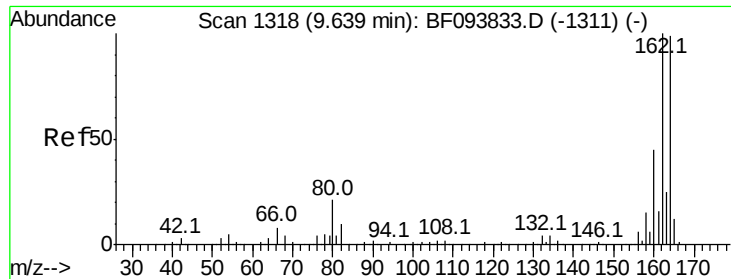


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

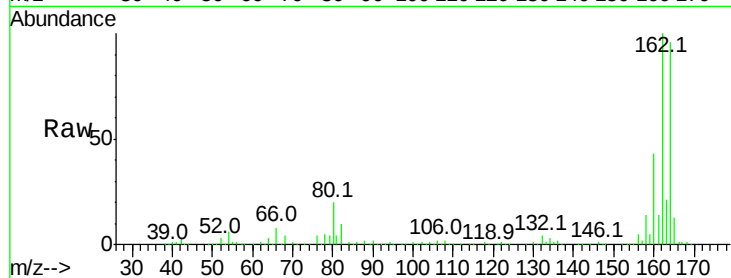




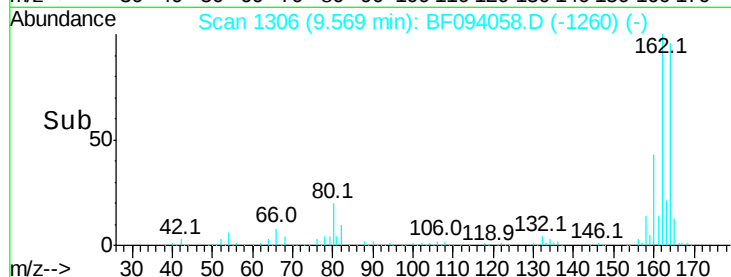
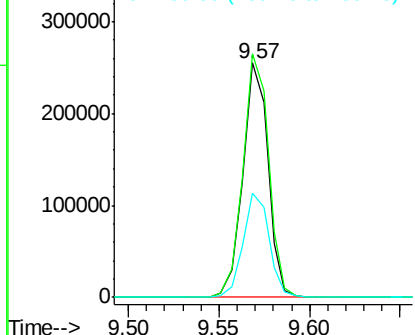
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.57 min Scan# 1306
 Delta R.T. -0.03 min
 Lab File: BF094058.D
 Acq: 30 Mar 2017 12:51

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-SSWDL

Tot Ion:164 Resp: 245427
 Ion Ratio Lower Upper
 164 100
 162 104.0 82.6 123.8
 160 44.6 36.2 54.2

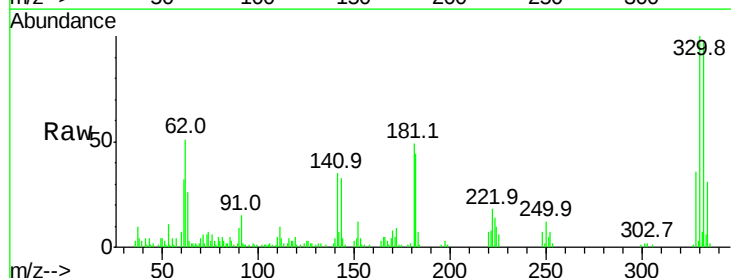


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

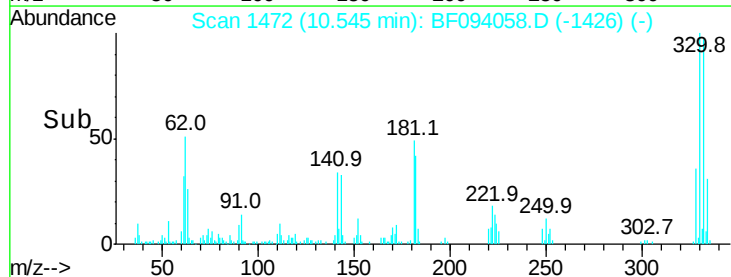
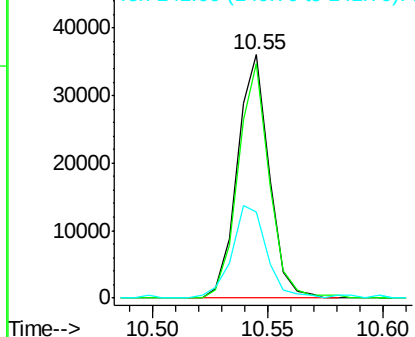


#41
 2,4,6-Tribromophenol
 Concen: 17.79 ng
 RT: 10.55 min Scan# 1472
 Delta R.T. -0.03 min
 Lab File: BF094058.D
 Acq: 30 Mar 2017 12:51

Tgt Ion:330 Resp: 34499
 Ion Ratio Lower Upper
 330 100
 332 95.0 76.6 115.0
 141 41.9 31.4 47.2



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

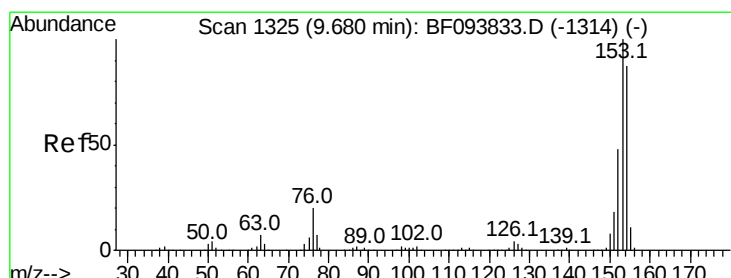
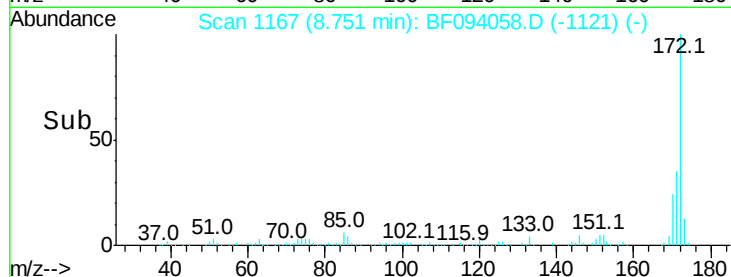
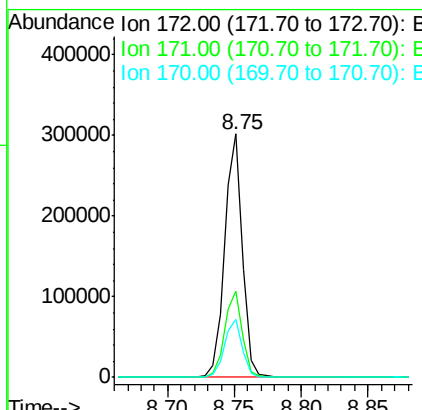
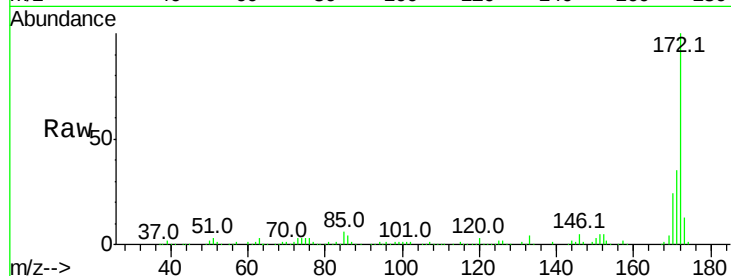




#44
 2-Fluorobiphenyl
 Concen: 17.55 ng
 RT: 8.75 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF094058.D
 Acq: 30 Mar 2017 12:51

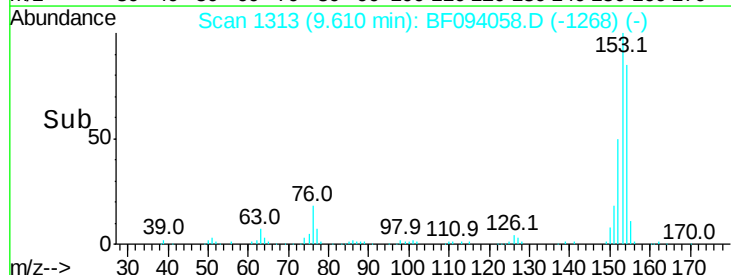
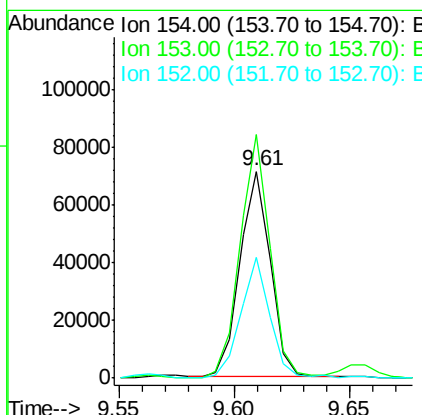
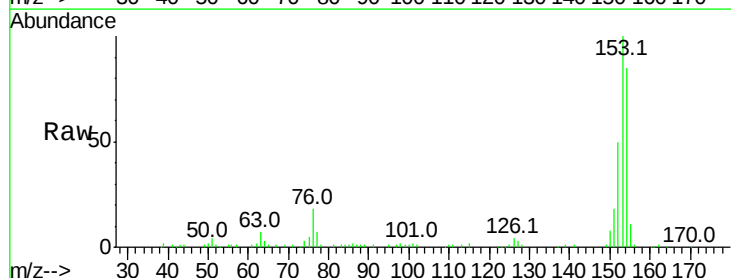
Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-SSWDL

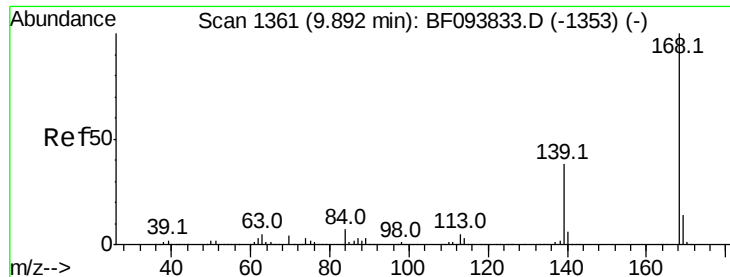
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.6	44.4
170	23.6	19.8	29.8



#51
 Acenaphthene
 Concen: 4.34 ng
 RT: 9.61 min Scan# 1313
 Delta R.T. -0.04 min
 Lab File: BF094058.D
 Acq: 30 Mar 2017 12:51

Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.9	90.5	135.7
152	58.5	43.6	65.4

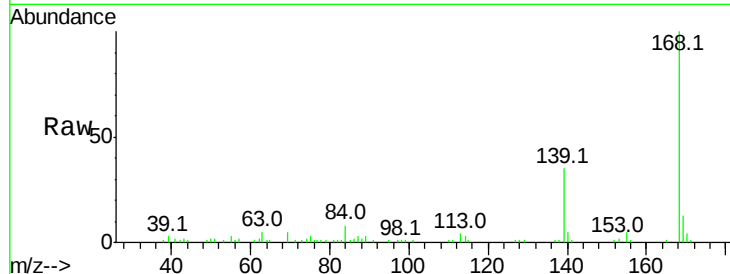




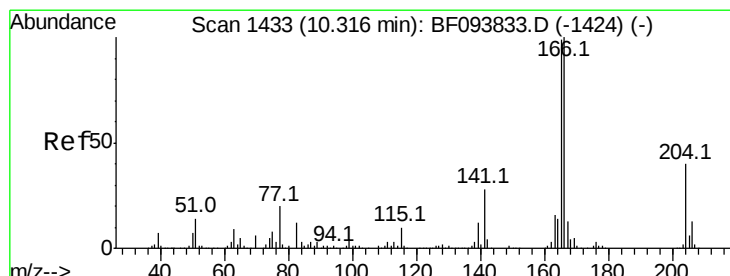
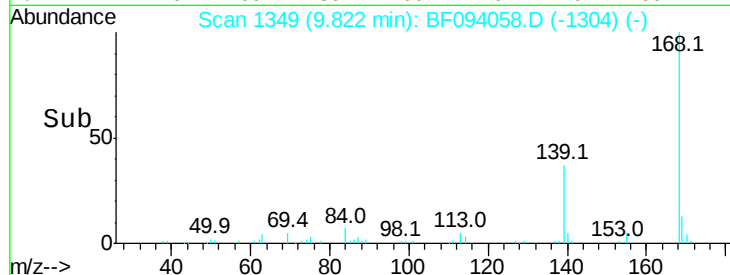
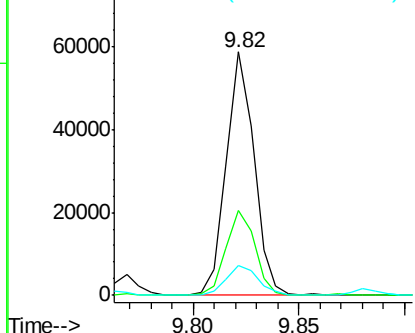
#54
Dibenzofuran
Concen: 2.62 ng
RT: 9.82 min Scan# 1349
Delta R.T. -0.04 min
Lab File: BF094058.D
Acq: 30 Mar 2017 12:51

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSWDL

Tot Ion:168 Resp: 53611
Ion Ratio Lower Upper
168 100
139 35.0 30.6 45.8
169 12.5 10.8 16.2

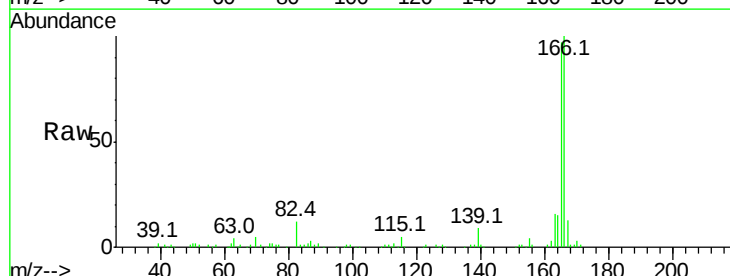


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

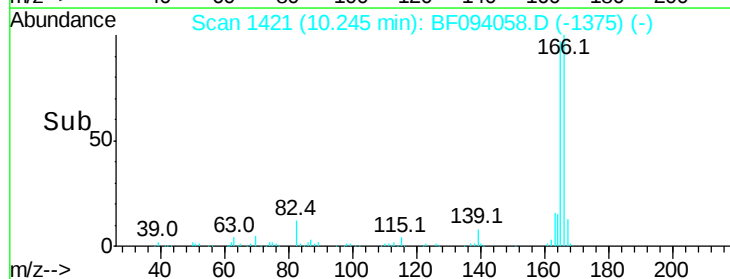
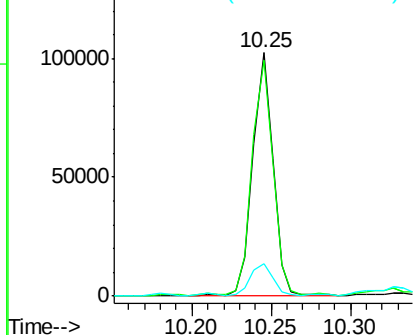


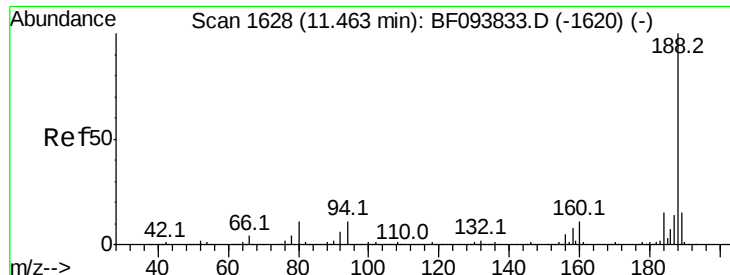
#57
Fluorene
Concen: 5.47 ng
RT: 10.25 min Scan# 1421
Delta R.T. -0.03 min
Lab File: BF094058.D
Acq: 30 Mar 2017 12:51

Tgt Ion:166 Resp: 92806
Ion Ratio Lower Upper
166 100
165 97.0 78.8 118.2
167 13.3 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

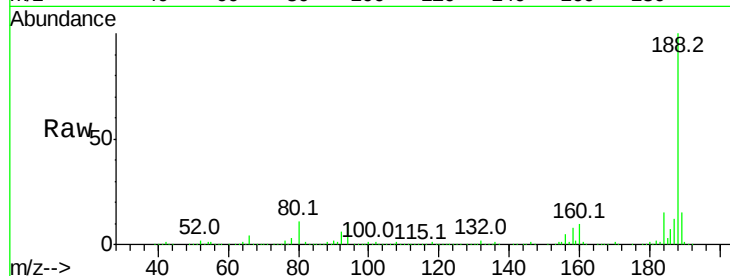




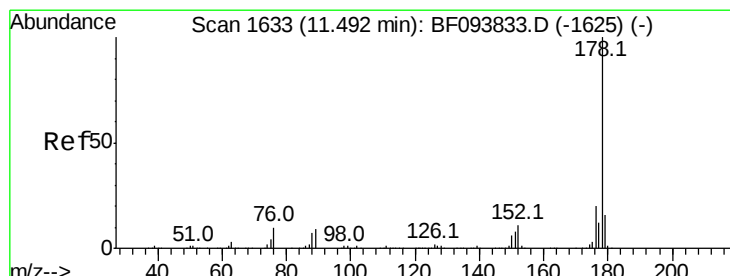
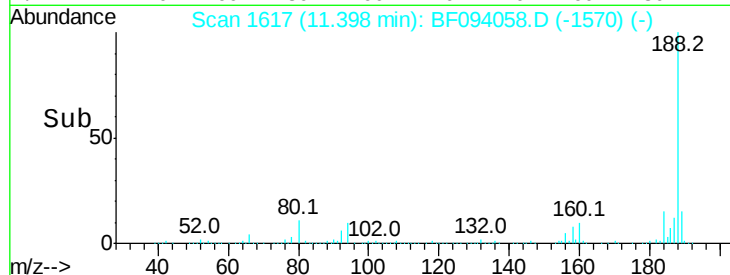
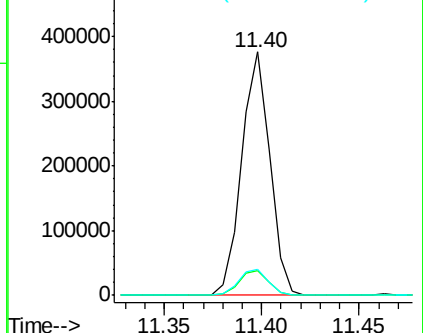
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.40 min Scan# 1617
Delta R.T. -0.02 min
Lab File: BF094058.D
Acq: 30 Mar 2017 12:51

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSWDL

Tot Ion:188 Resp: 377729
Ion Ratio Lower Upper
188 100
94 10.3 9.4 14.2
80 10.8 10.2 15.2

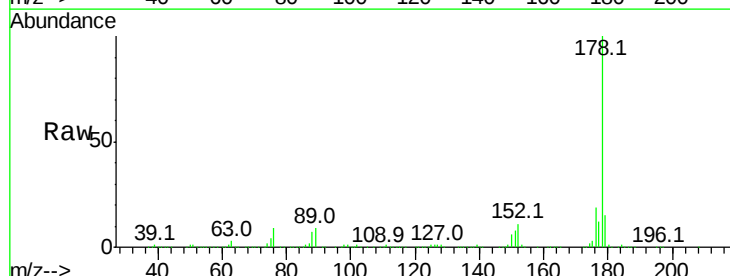


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

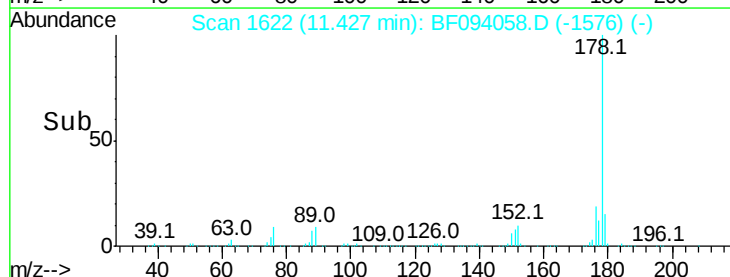
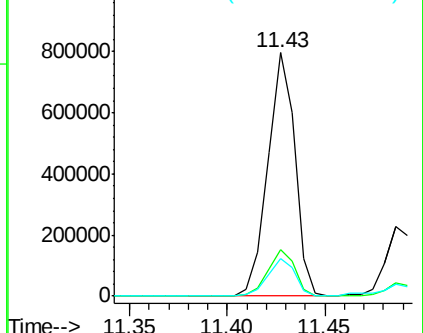


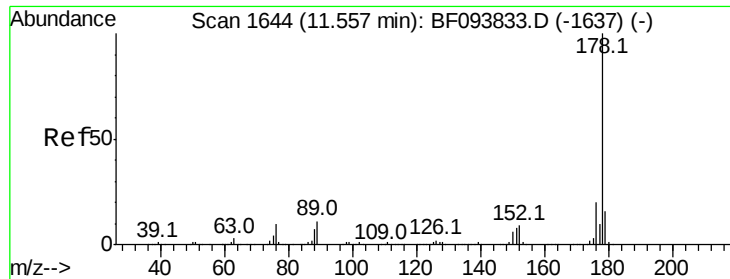
#70
Phenanthrene
Concen: 36.60 ng
RT: 11.43 min Scan# 1622
Delta R.T. -0.03 min
Lab File: BF094058.D
Acq: 30 Mar 2017 12:51

Tgt Ion:178 Resp: 768993
Ion Ratio Lower Upper
178 100
176 19.2 16.2 24.4
179 15.3 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

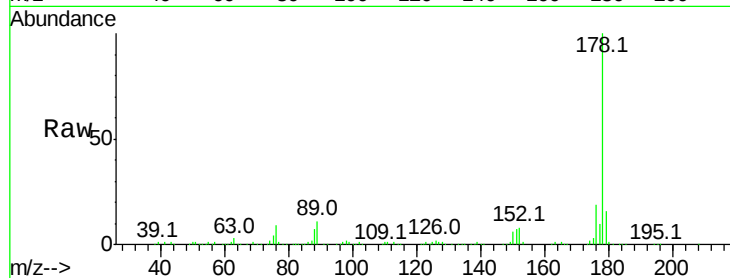




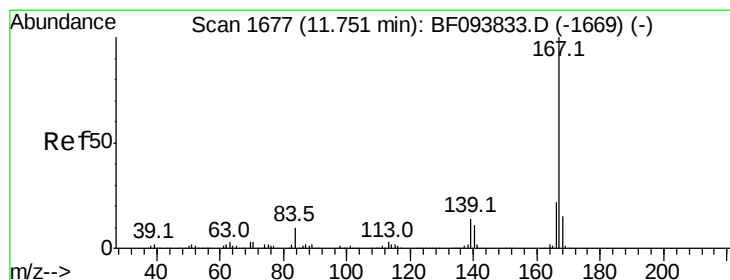
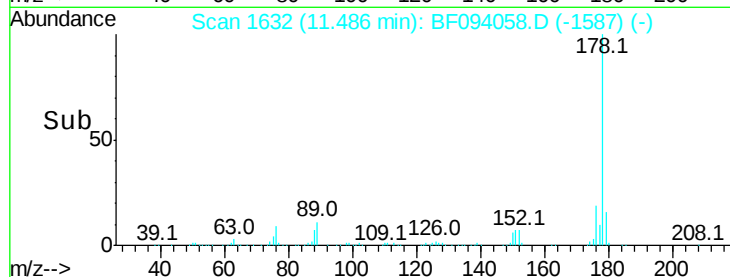
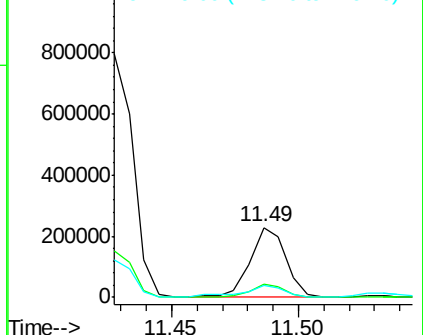
#71
 Anthracene
 Concen: 10.19 ng
 RT: 11.49 min Scan# 1632
 Delta R.T. -0.04 min
 Lab File: BF094058.D
 Acq: 30 Mar 2017 12:51

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-SSWDL

Tot Ion:178 Resp: 220412
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.8 23.8
 179 16.3 12.7 19.1

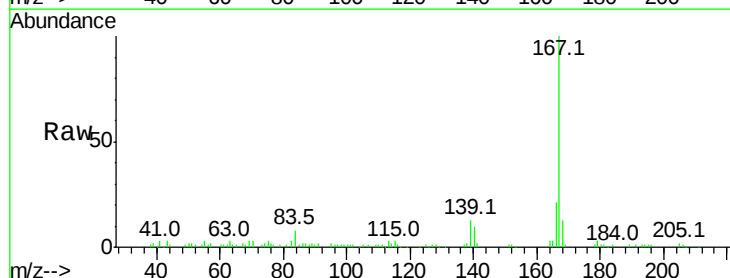


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

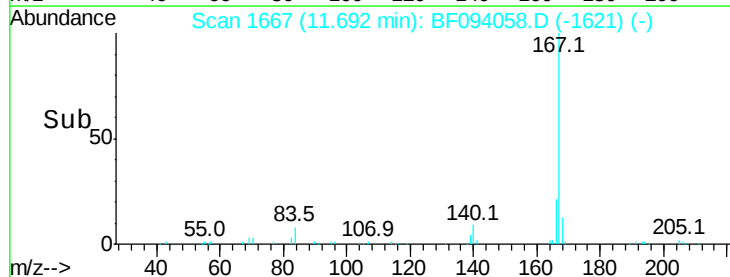
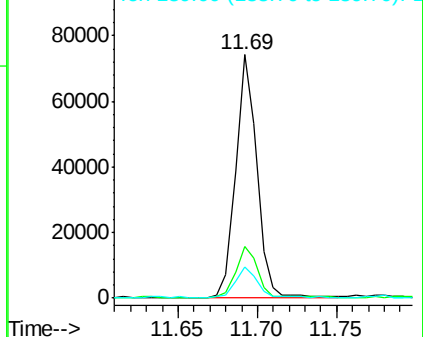


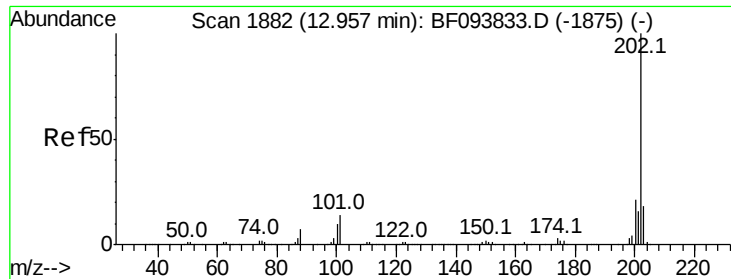
#72
 Carbazole
 Concen: 3.12 ng
 RT: 11.69 min Scan# 1667
 Delta R.T. -0.03 min
 Lab File: BF094058.D
 Acq: 30 Mar 2017 12:51

Tgt Ion:167 Resp: 69207
 Ion Ratio Lower Upper
 167 100
 166 21.2 18.1 27.1
 139 13.0 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

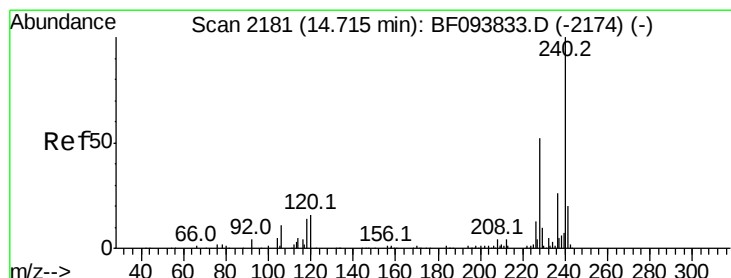
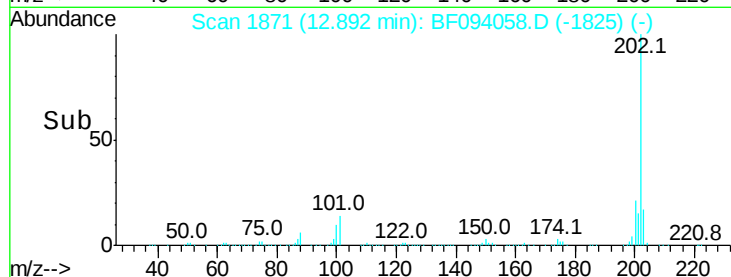
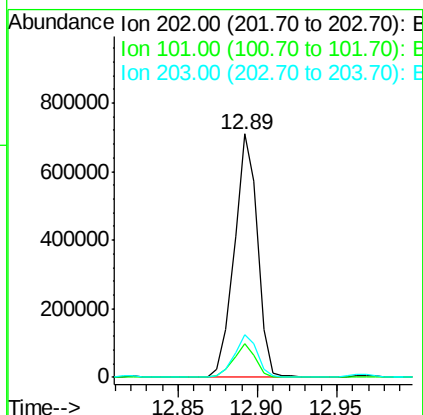
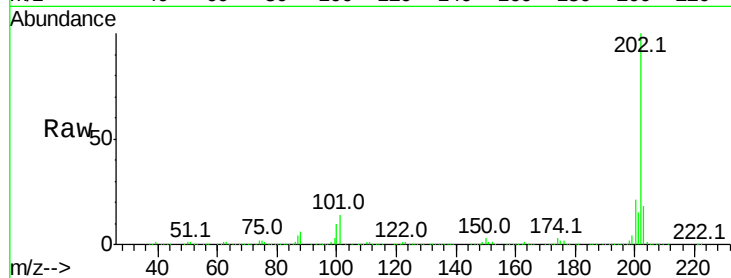




#74
Fluoranthene
Concen: 33.16 ng
RT: 12.89 min Scan# 1871
Delta R.T. -0.03 min
Lab File: BF094058.D
Acq: 30 Mar 2017 12:51

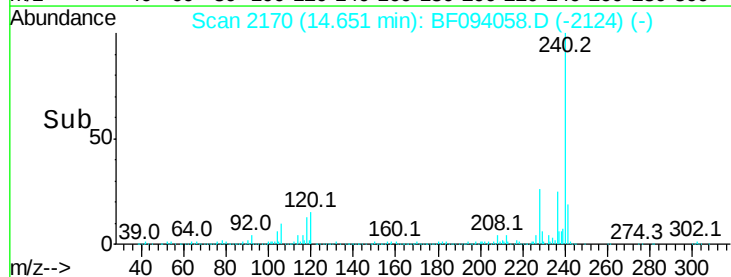
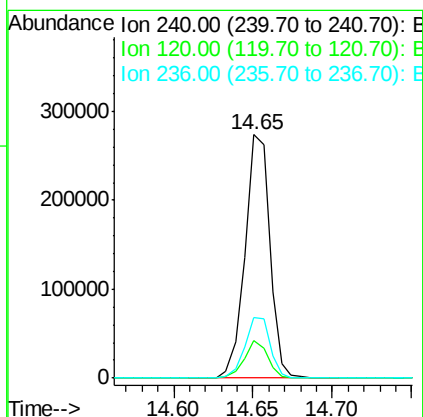
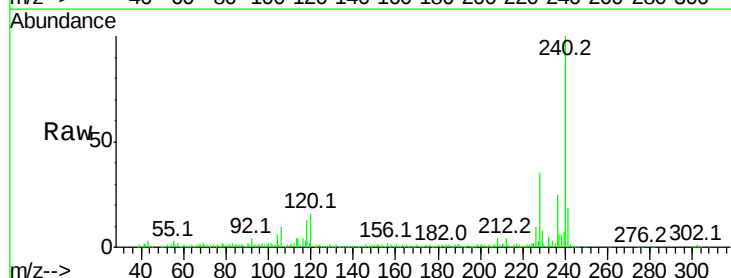
Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSWDL

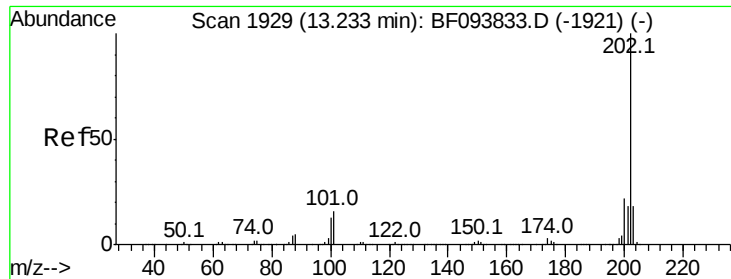
Tot Ion:202 Resp: 713445
Ion Ratio Lower Upper
202 100
101 13.7 0.0 33.2
203 17.5 0.0 38.1



#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.65 min Scan# 2170
Delta R.T. -0.03 min
Lab File: BF094058.D
Acq: 30 Mar 2017 12:51

Tgt Ion:240 Resp: 297518
Ion Ratio Lower Upper
240 100
120 15.6 5.8 8.8#
236 25.1 20.5 30.7

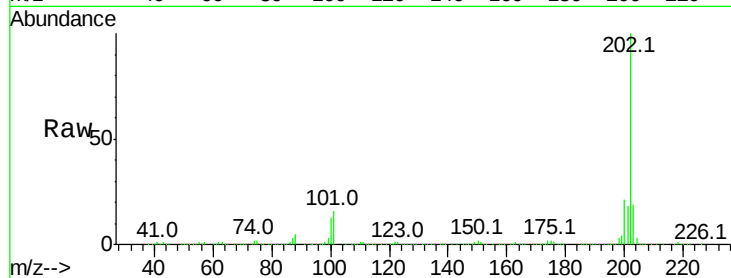




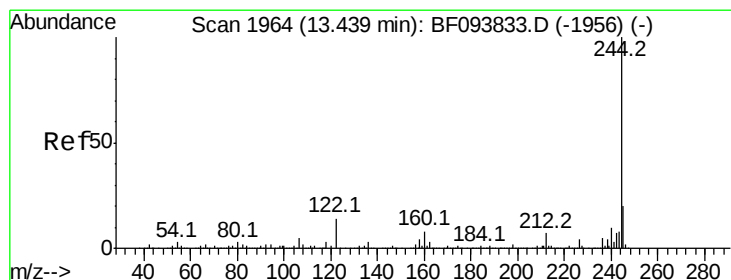
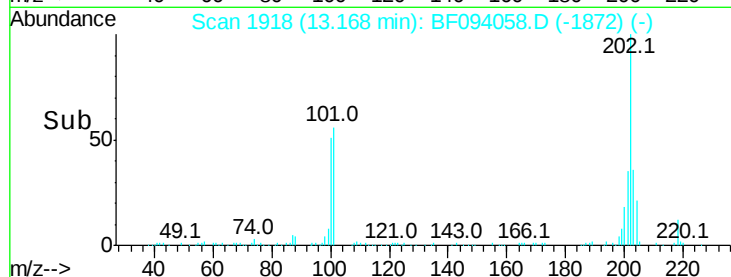
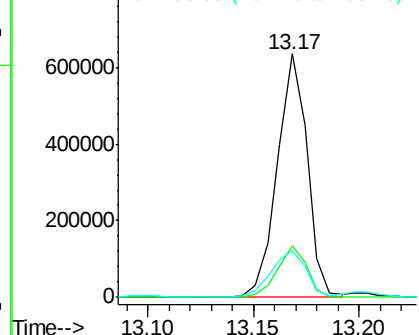
#77
Pvrene
Concen: 29.01 ng
RT: 13.17 min Scan# 1918
Delta R.T. -0.03 min
Lab File: BF094058.D
Acq: 30 Mar 2017 12:51

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSWDL

Tot Ion:202 Resp: 626361
Ion Ratio Lower Upper
202 100
200 21.1 17.6 26.4
203 18.8 14.4 21.6

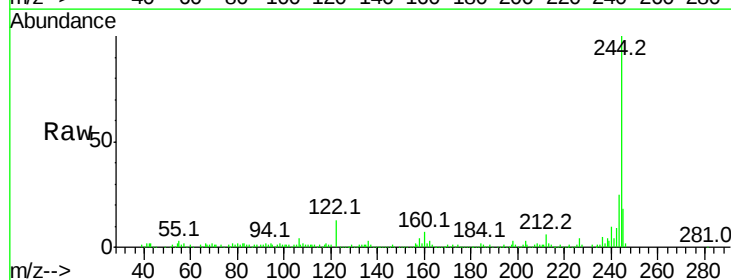


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

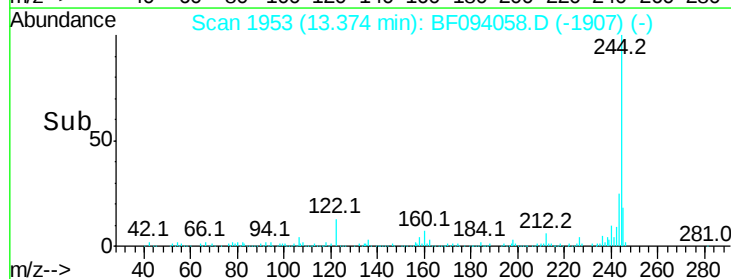
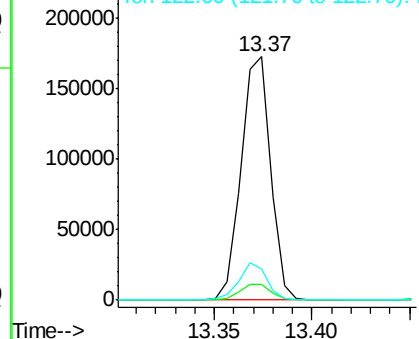


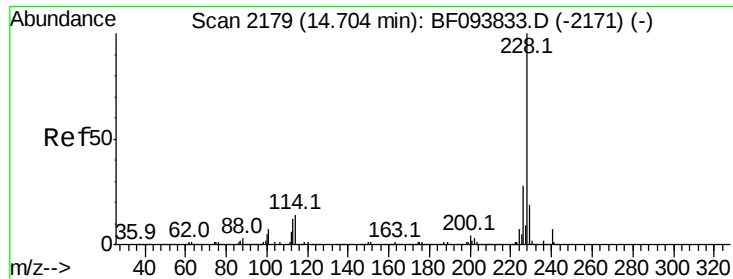
#78
Terphenyl-d14
Concen: 13.61 ng
RT: 13.37 min Scan# 1953
Delta R.T. -0.03 min
Lab File: BF094058.D
Acq: 30 Mar 2017 12:51

Tgt Ion:244 Resp: 180687
Ion Ratio Lower Upper
244 100
212 6.5 6.0 9.0
122 12.6 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: 15.56 ng m

RT: 14.64 min Scan# 2168

Delta R.T. -0.03 min

Lab File: BF094058.D

Acq: 30 Mar 2017 12:51

Instrument :

BNA_F

ClientSampleId :

E2-AA9-SSWDL

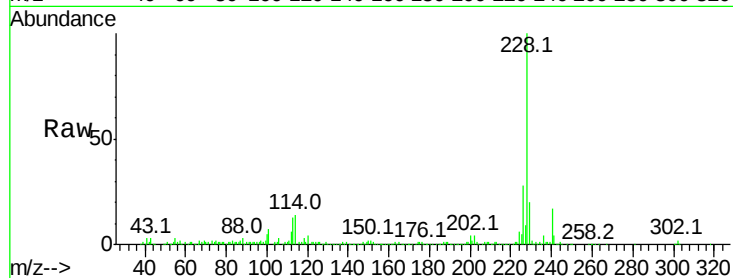
Tot Ion:228 Resp: 269975

Ion Ratio Lower Upper

228 100

226 27.7 22.6 33.8

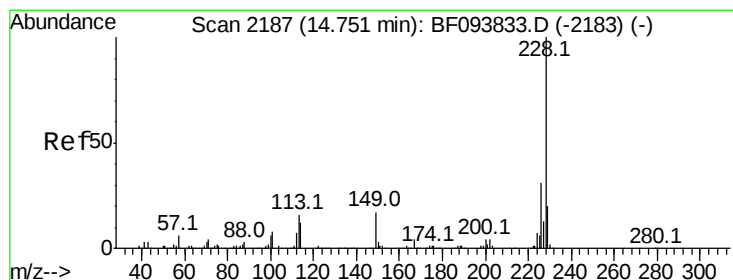
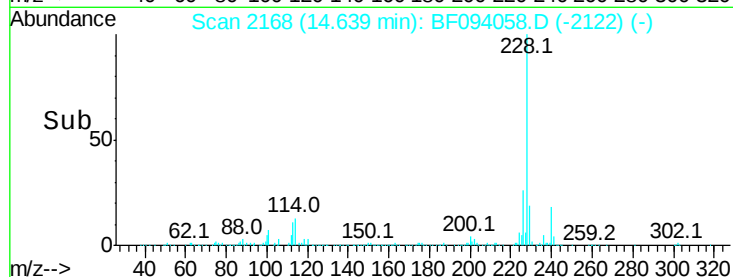
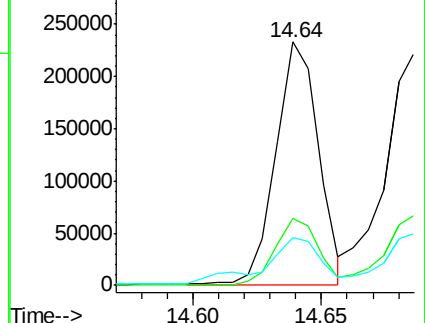
229 19.8 16.3 24.5



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: 15.81 ng m

RT: 14.69 min Scan# 2176

Delta R.T. -0.03 min

Lab File: BF094058.D

Acq: 30 Mar 2017 12:51

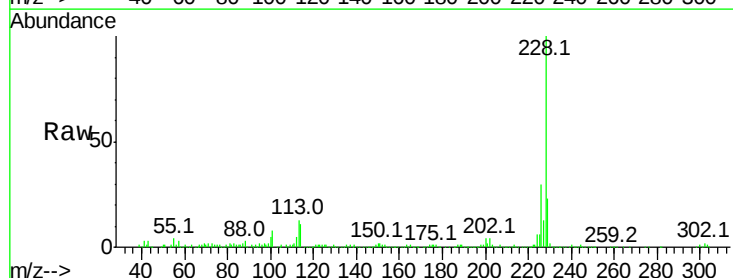
Tgt Ion:228 Resp: 254486

Ion Ratio Lower Upper

228 100

226 29.9 24.9 37.3

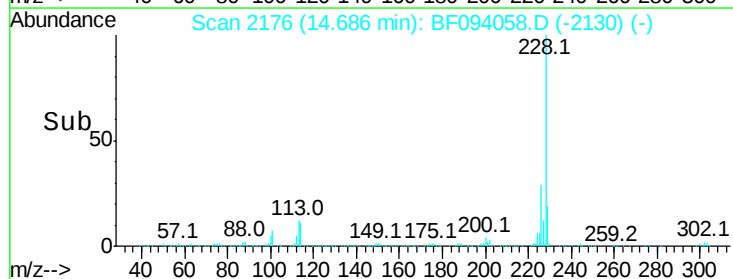
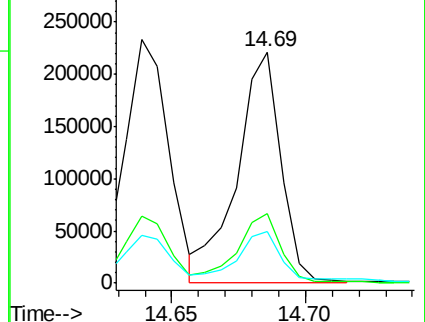
229 22.5 15.8 23.6

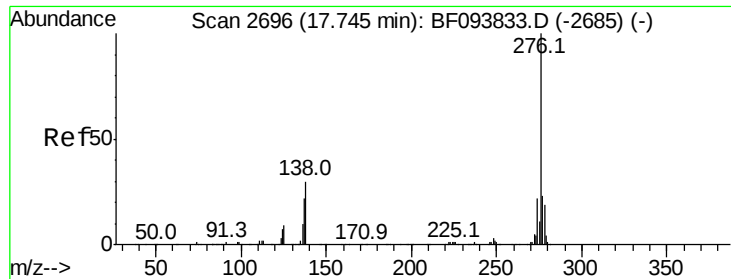


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

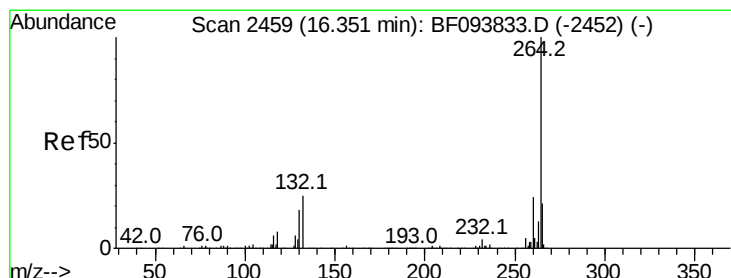
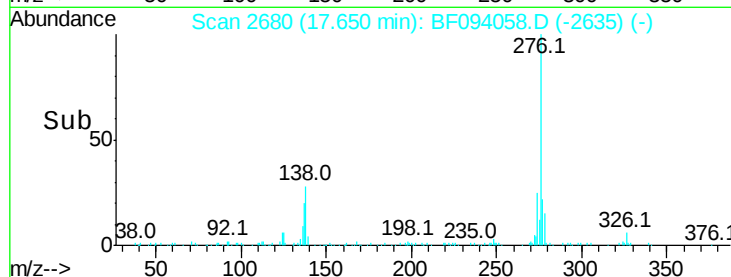
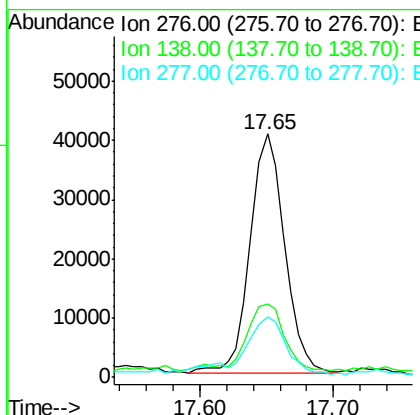
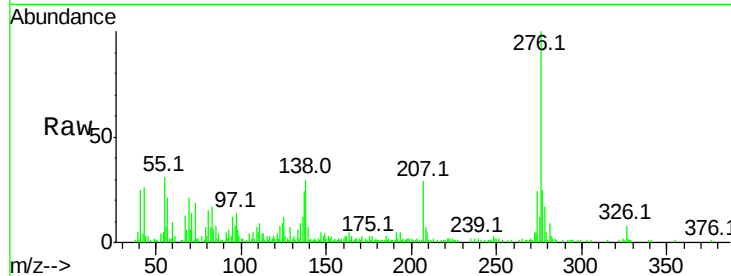




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.19 ng
 RT: 17.65 min Scan# 2680
 Delta R.T. -0.04 min
 Lab File: BF094058.D
 Acq: 30 Mar 2017 12:51

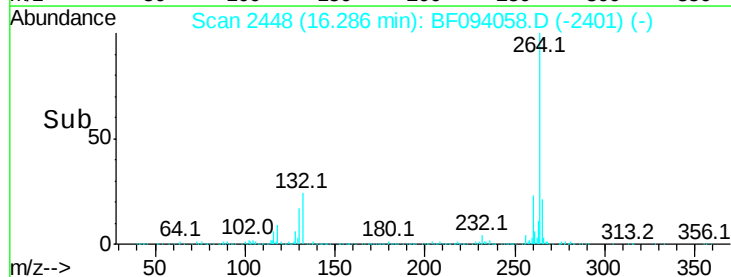
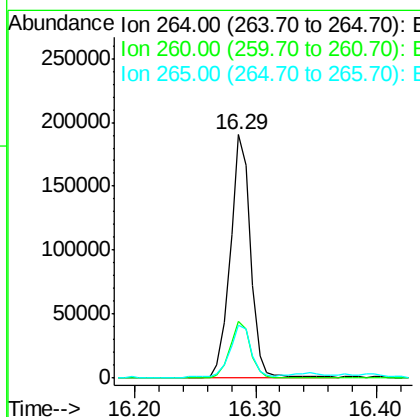
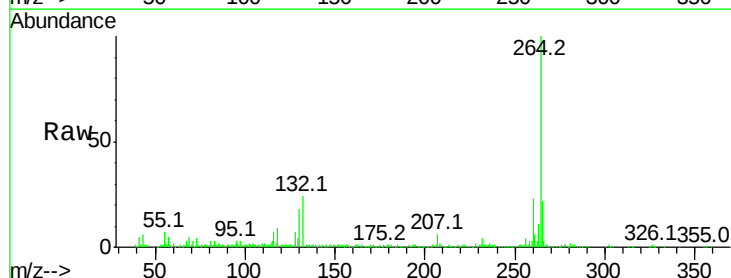
Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-SSWDL

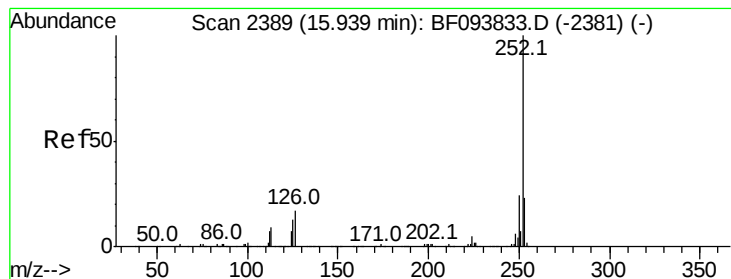
Tot Ion:276 Resp: 72398
 Ion Ratio Lower Upper
 276 100
 138 30.7 27.8 41.6
 277 31.6 20.2 30.4#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.29 min Scan# 2448
 Delta R.T. -0.02 min
 Lab File: BF094058.D
 Acq: 30 Mar 2017 12:51

Tgt Ion:264 Resp: 220961
 Ion Ratio Lower Upper
 264 100
 260 23.4 19.5 29.3
 265 21.6 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 15.96 ng m

RT: 15.88 min Scan# 2379

Delta R.T. -0.02 min

Lab File: BF094058.D

Acq: 30 Mar 2017 12:51

Instrument :

BNA_F

ClientSampleId :

E2-AA9-SSWDL

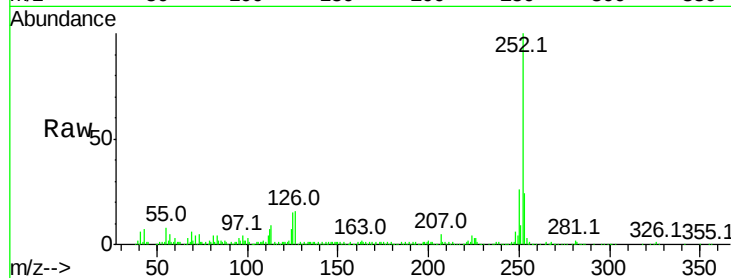
Tot Ion:252 Resp: 216224

Ion Ratio Lower Upper

252 100

253 23.6 18.1 27.1

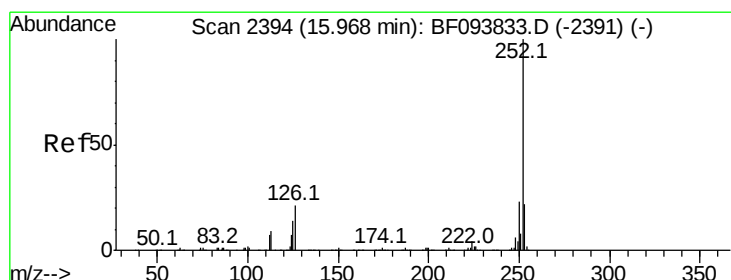
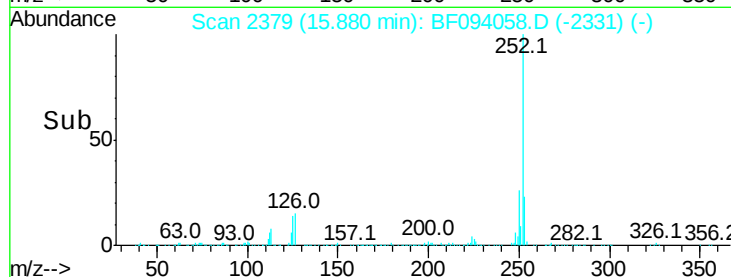
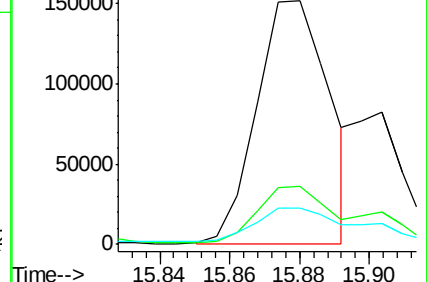
125 14.8 9.8 14.8#



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



#88

Benzo(k)fluoranthene

Concen: 6.03 ng m

RT: 15.90 min Scan# 2383

Delta R.T. -0.03 min

Lab File: BF094058.D

Acq: 30 Mar 2017 12:51

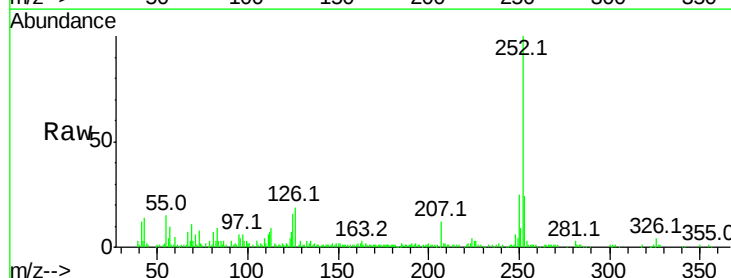
Tgt Ion:252 Resp: 79901

Ion Ratio Lower Upper

252 100

253 24.2 18.4 27.6

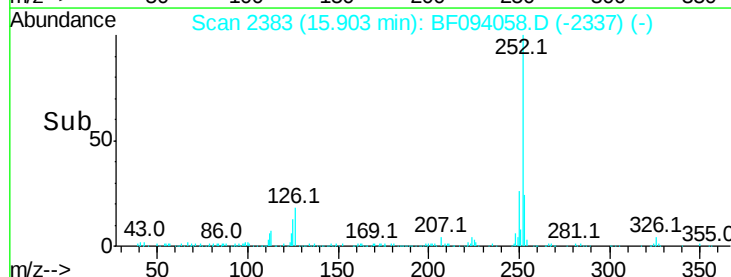
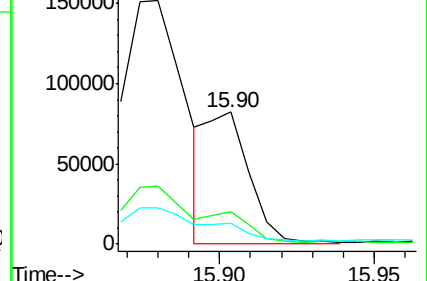
125 15.5 13.1 19.7

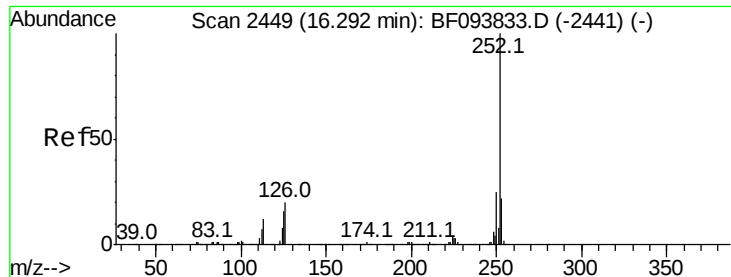


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 13.05 ng

RT: 16.23 min Scan# 2438

Delta R.T. -0.02 min

Lab File: BF094058.D

Acq: 30 Mar 2017 12:51

Instrument :

BNA_F

ClientSampleId :

E2-AA9-SSWDL

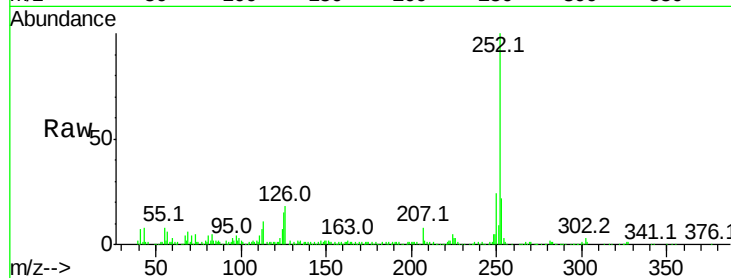
Tot Ion:252 Resp: 162764

Ion Ratio Lower Upper

252 100

253 22.5 17.5 26.3

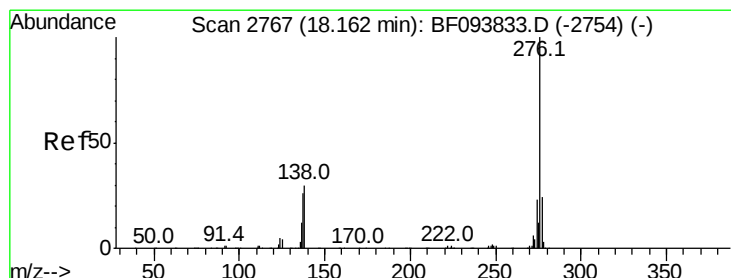
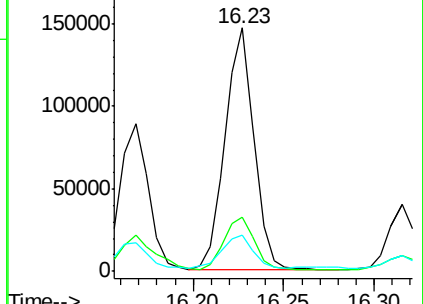
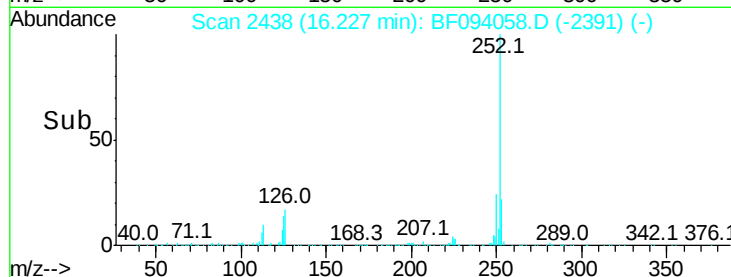
125 15.1 11.0 16.4



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



#91

Benzo(g,h,i)perylene

Concen: 6.73 ng

RT: 18.05 min Scan# 2748

Delta R.T. -0.05 min

Lab File: BF094058.D

Acq: 30 Mar 2017 12:51

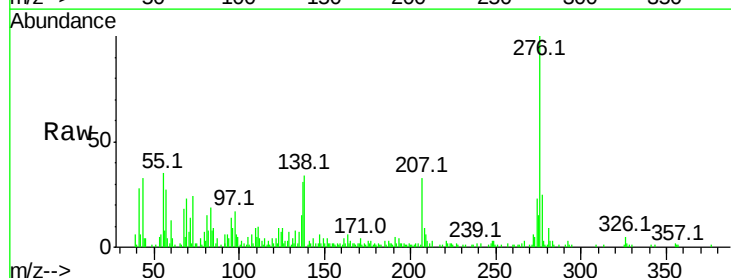
Tgt Ion:276 Resp: 71629

Ion Ratio Lower Upper

276 100

277 25.3 18.6 28.0

138 34.2 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

