

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092917\
 Data File : BF098944.D
 Acq On : 29 Sep 2017 12:34
 Operator : SJ/JU
 Sample : I5515-01DL 25X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 29 16:06:13 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	150740	20.00	ng	0.00
21) Naphthalene-d8	8.20	136	610116	20.00	ng	0.00
38) Acenaphthene-d10	9.95	164	257166	20.00	ng	-0.01
63) Phenanthrene-d10	11.44	188	382843	20.00	ng	0.00
75) Chrysene-d12	14.08	240	222529	20.00	ng	0.00
86) Perylene-d12	15.57	264	255670	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.52	112	34937	3.69	ng	-0.02
7) Phenol-d6	6.53	99	44648	3.82	ng	-0.02
23) Nitrobenzene-d5	7.47	82	24849	2.61	ng	-0.02
41) 2,4,6-Tribromophenol	10.74	330	5502	2.61	ng	-0.01
44) 2-Fluorobiphenyl	9.27	172	51099	3.32	ng	-0.01
78) Terphenyl-d14	13.02	244	29999	3.07	ng	-0.02

Target Compounds

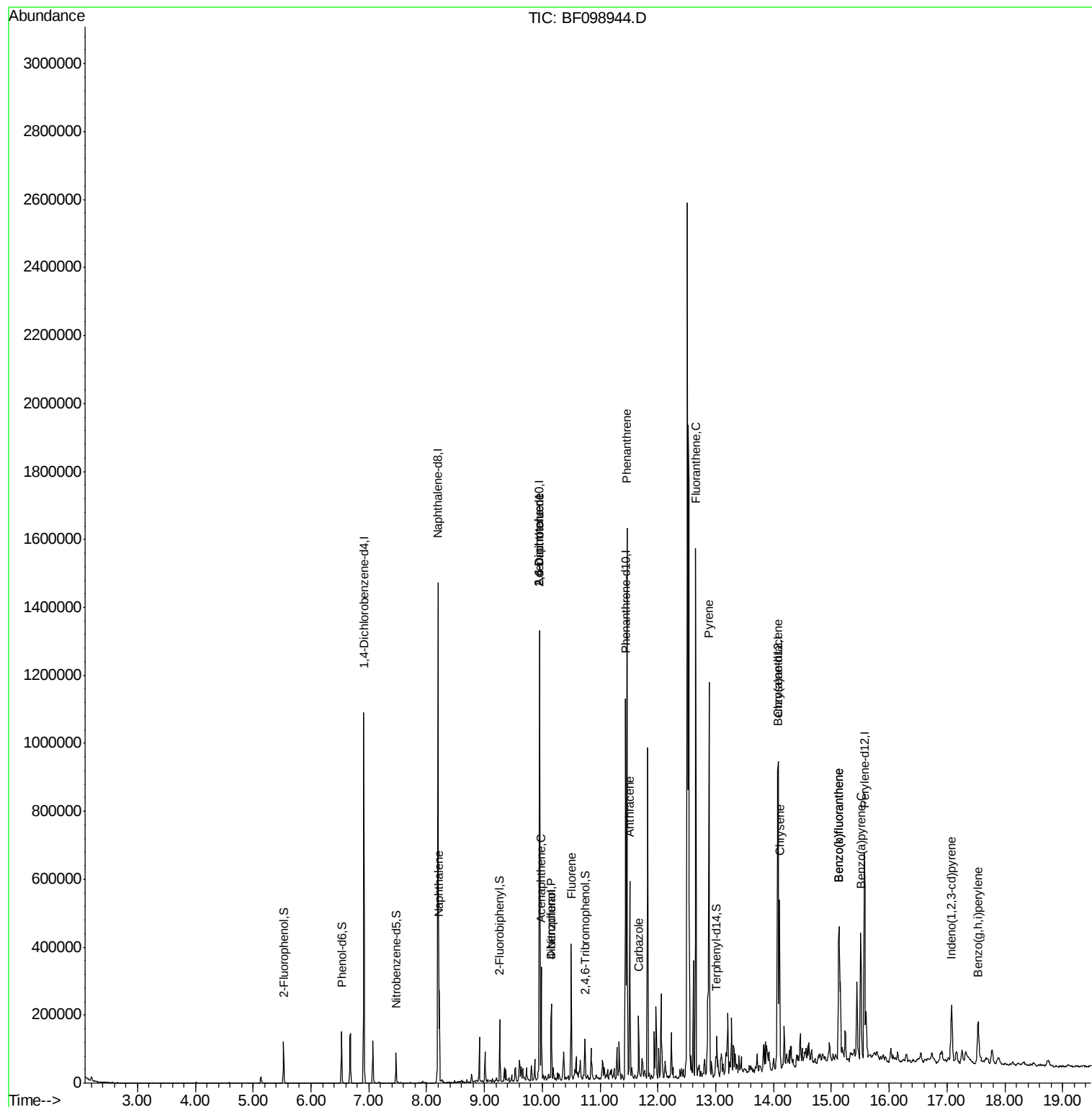
						Qvalue
31) Naphthalene	8.22	128	138722	4.841	ng	99
50) 2,6-Dinitrotoluene	9.95	165	33372	7.898	ng	# 26
51) Acenaphthene	9.99	154	61112	3.798	ng	98
54) Dibenzofuran	10.16	168	75182	3.509	ng	100
55) 4-Nitrophenol	10.16	139	28628	6.872	ng	# 10
56) 2,4-Dinitrotoluene	9.95	165	33372	6.085	ng	# 24
57) Fluorene	10.50	166	94900	5.511	ng	95
70) Phenanthrene	11.47	178	591982	28.888	ng	99
71) Anthracene	11.52	178	192901	9.200	ng	99
72) Carbazole	11.67	167	64820	3.157	ng	98
74) Fluoranthene	12.66	202	560392	27.006	ng	98
77) Pyrene	12.89	202	447395	26.366	ng	99
80) Benzo(a)anthracene	14.07	228	192501	14.286	ng	99
82) Chrysene	14.10	228	157237	12.257	ng	97
85) Indeno(1,2,3-cd)pyrene	17.08	276	99794	9.725	ng	100
87) Benzo(b)fluoranthene	15.13	252	292510	18.608	ng	98
88) Benzo(k)fluoranthene	15.13	252	292510	18.840	ng	98
89) Benzo(a)pyrene	15.51	252	164861	11.425	ng	96
91) Benzo(a,h,i)perylene	17.54	276	94923	8.316	ng	# 92

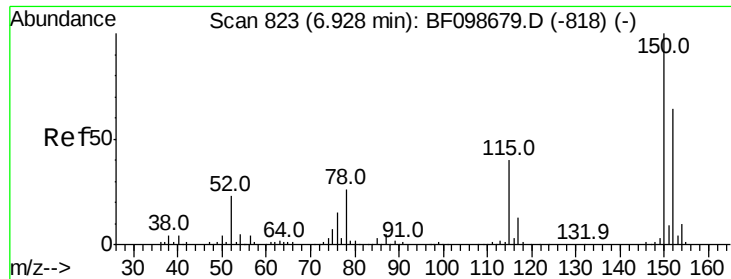
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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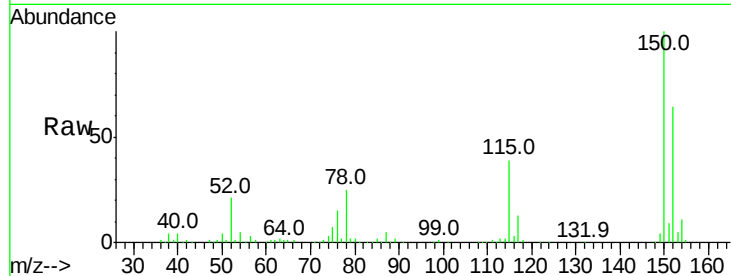


#1

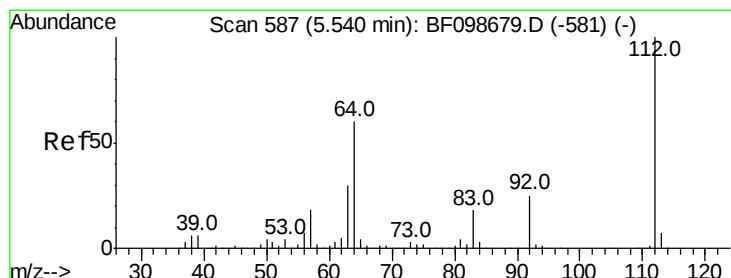
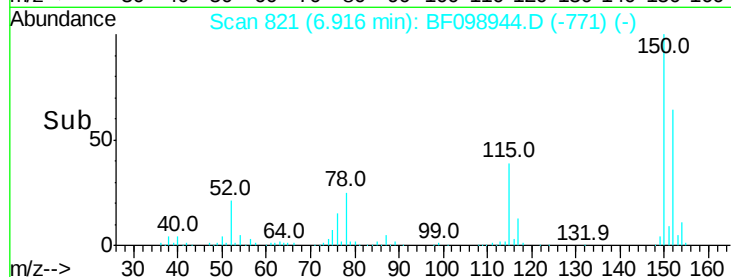
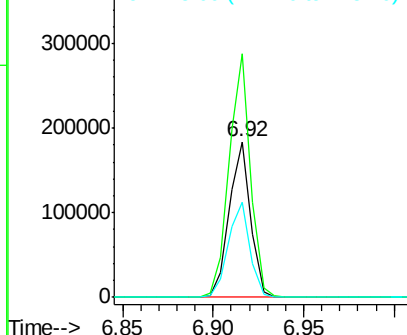
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF098944.D
Acq: 29 Sep 2017 12:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 150740
Ion Ratio Lower Upper
152 100
150 156.4 124.6 186.8
115 60.8 50.1 75.1



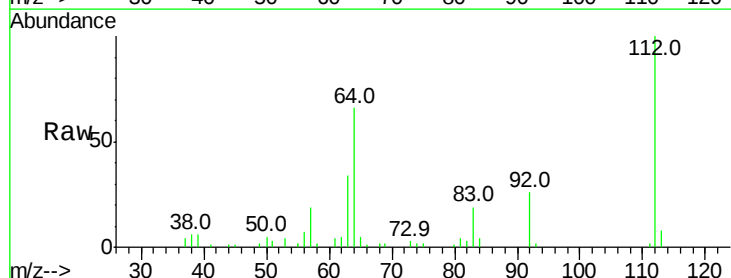
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



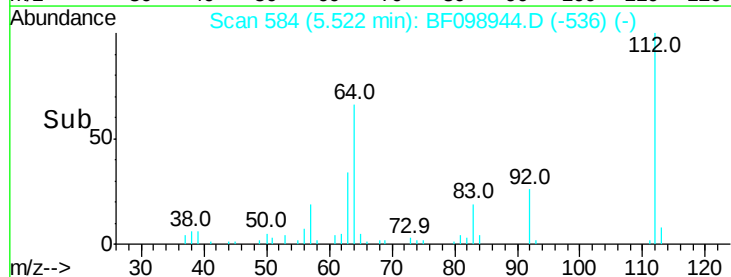
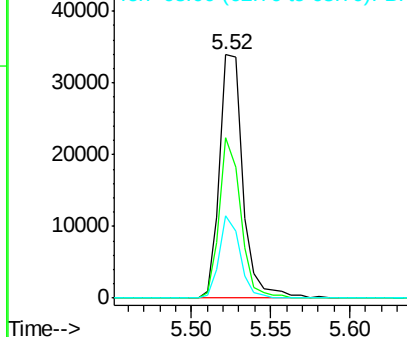
#5

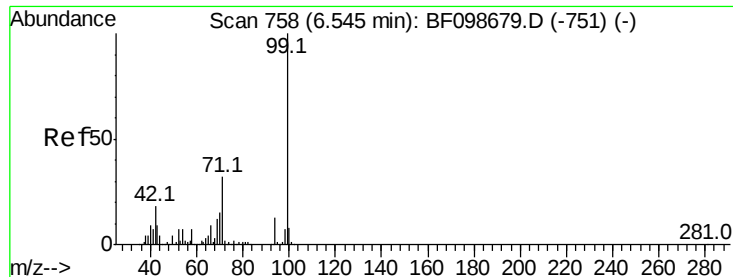
2-Fluorophenol
Concen: 3.690 ng
RT: 5.52 min Scan# 584
Delta R.T. -0.02 min
Lab File: BF098944.D
Acq: 29 Sep 2017 12:34

Tgt Ion:112 Resp: 34937
Ion Ratio Lower Upper
112 100
64 65.7 47.9 71.9
63 34.0 23.7 35.5



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





#7

Phenol-d6

Concen: 3.822 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.02 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Instrument :

BNA_F

ClientSampleId :

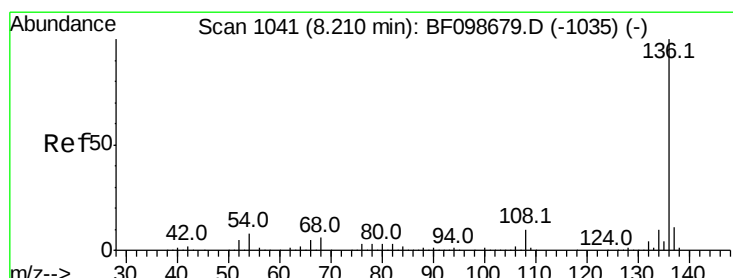
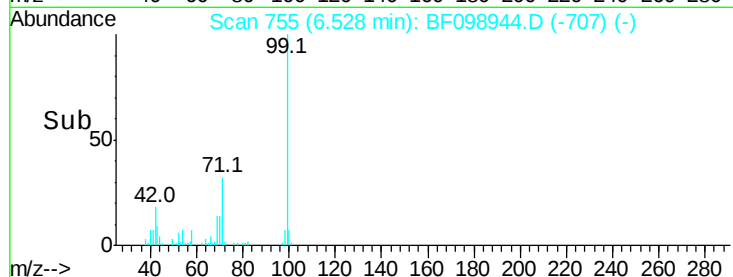
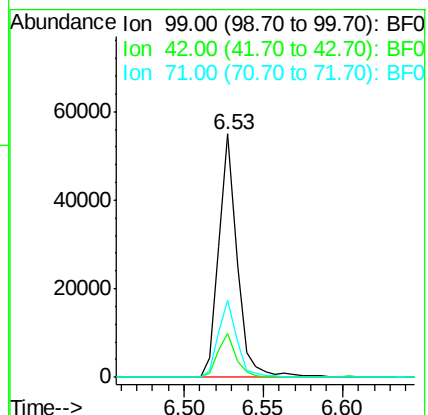
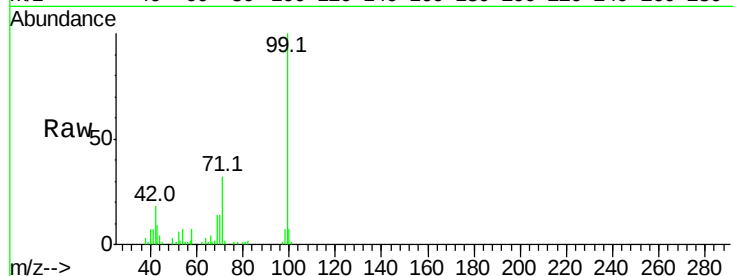
Tot Ion: 99 Resp: 44648

Ion Ratio Lower Upper

99 100

42 18.2 14.5 21.7

71 31.6 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.20 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Tgt Ion: 136 Resp: 610116

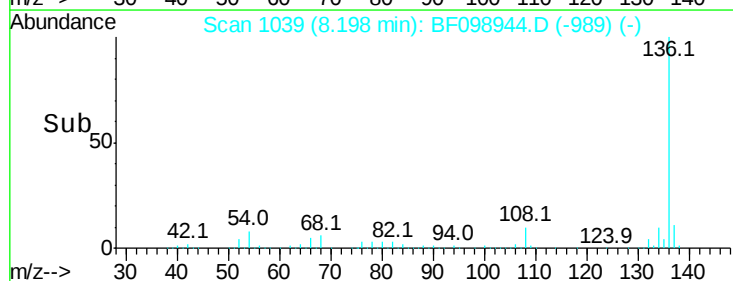
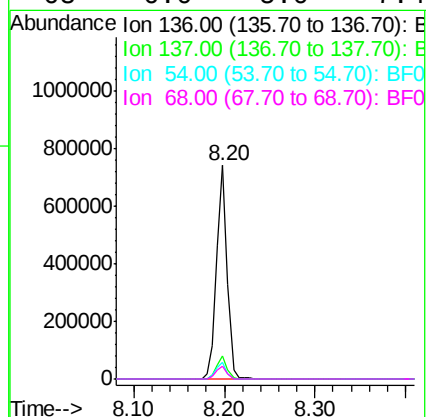
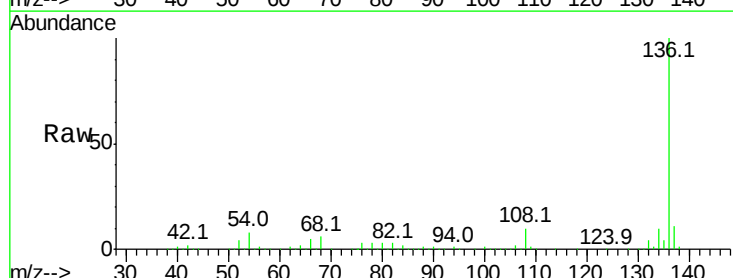
Ion Ratio Lower Upper

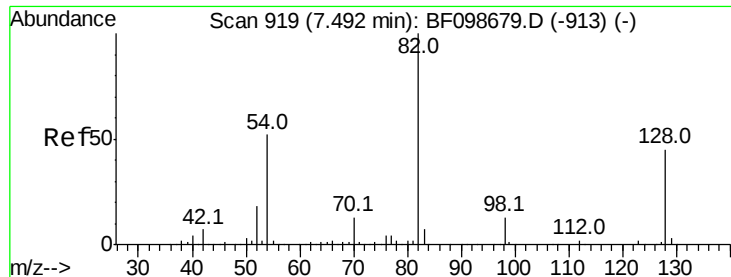
136 100

137 11.1 8.9 13.3

54 7.7 6.6 9.8

68 6.0 5.0 7.4





#23

Nitrobenzene-d5

Concen: 2.612 ng

RT: 7.47 min Scan# 915

Delta R.T. -0.02 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Instrument :

BNA_F

ClientSampled :

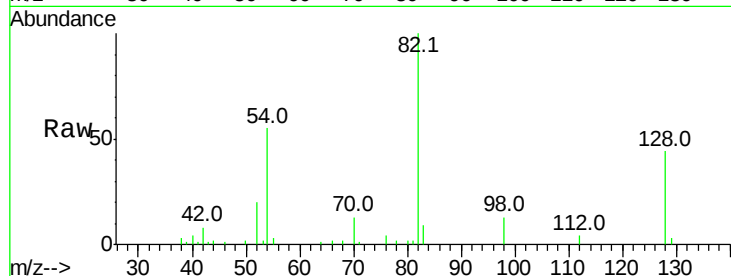
Tot Ion: 82 Resp: 24849

Ion Ratio Lower Upper

82 100

128 43.6 36.1 54.1

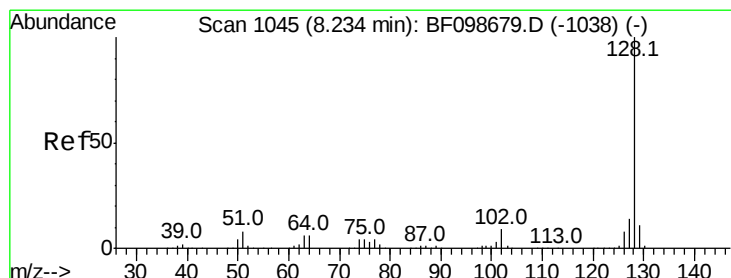
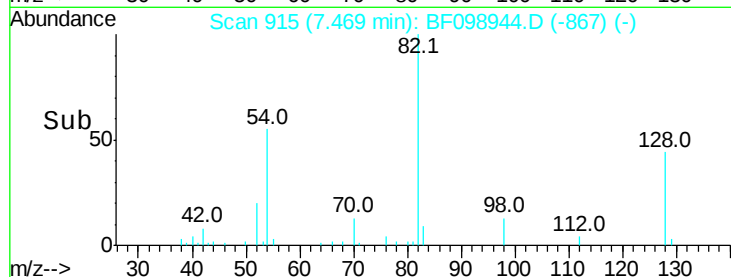
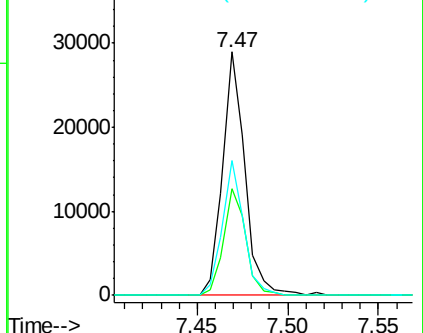
54 55.3 41.4 62.2



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: 4.841 ng

RT: 8.22 min Scan# 1042

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

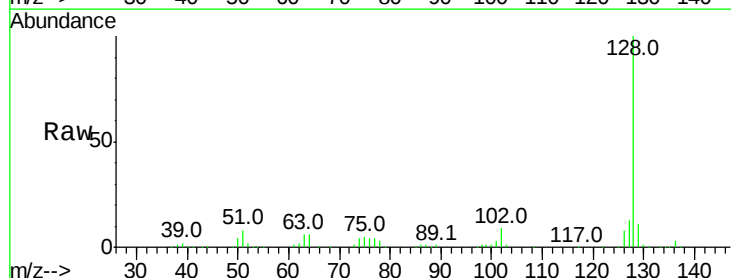
Tgt Ion: 128 Resp: 138722

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

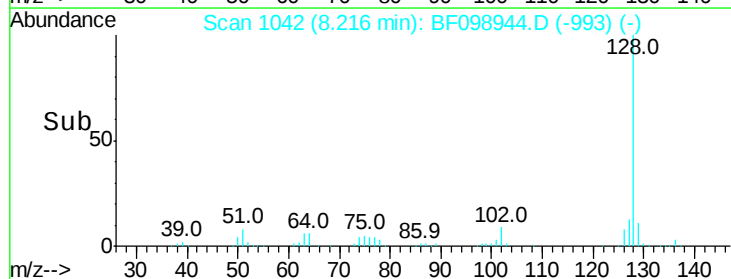
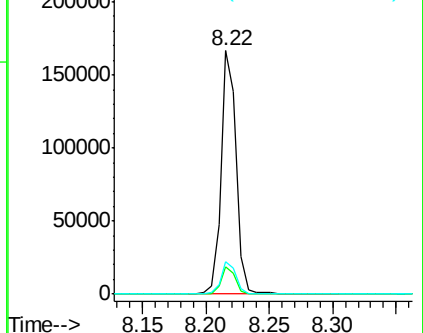
127 13.3 10.9 16.3

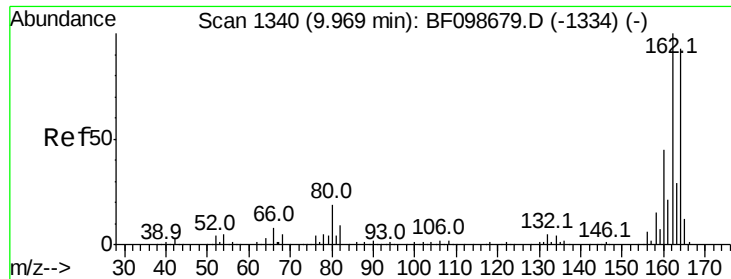


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

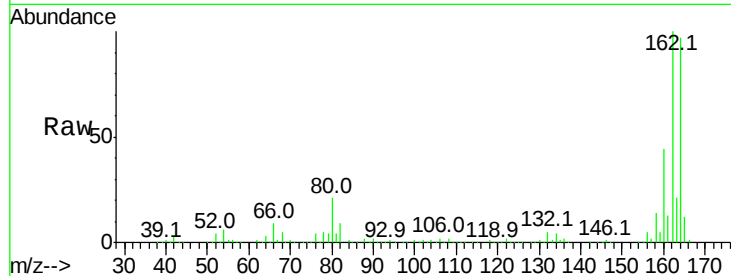




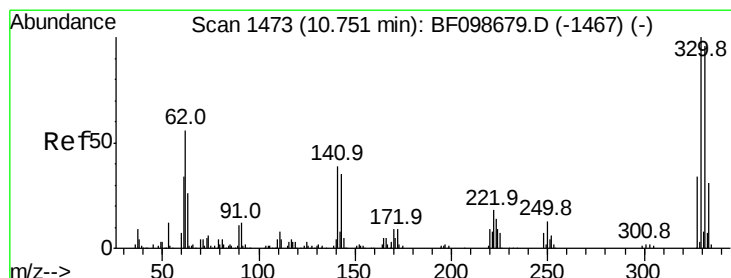
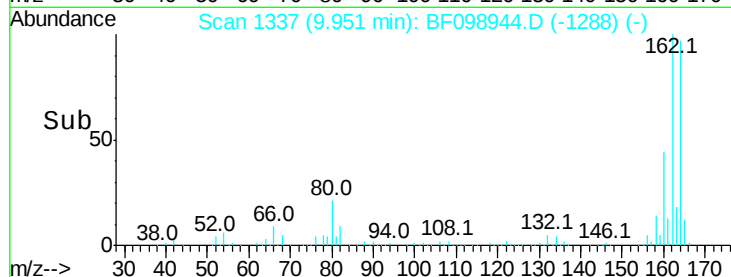
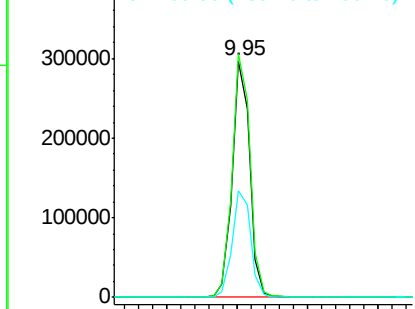
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.95 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: BF098944.D
 Acq: 29 Sep 2017 12:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 257166
 Ion Ratio Lower Upper
 164 100
 162 102.9 86.1 129.1
 160 45.1 38.3 57.5

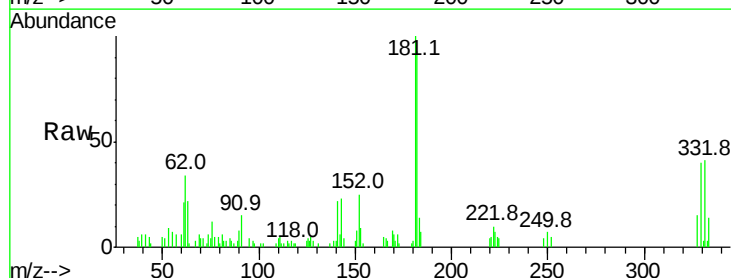


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

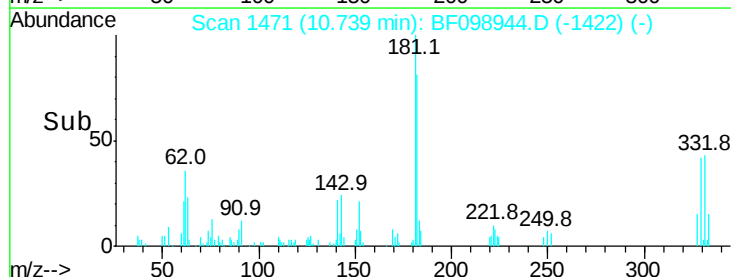
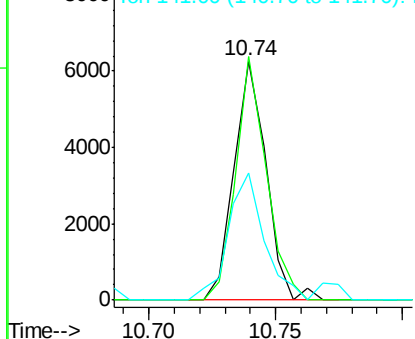


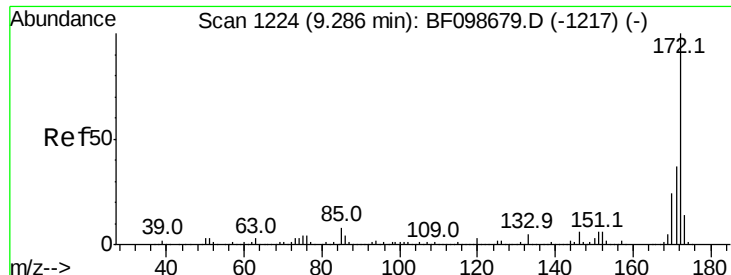
#41
 2,4,6-Tribromophenol
 Concen: 2.615 ng
 RT: 10.74 min Scan# 1471
 Delta R.T. -0.01 min
 Lab File: BF098944.D
 Acq: 29 Sep 2017 12:34

Tgt Ion:330 Resp: 5502
 Ion Ratio Lower Upper
 330 100
 332 97.1 77.0 115.6
 141 59.6 29.9 44.9#



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

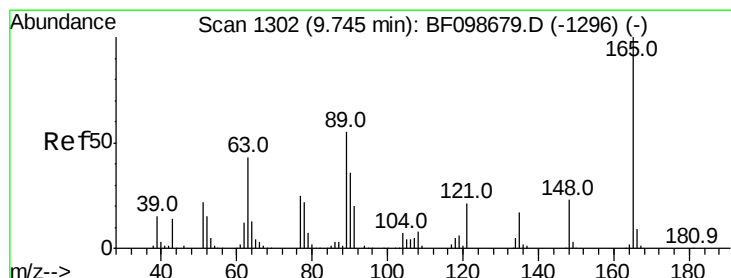
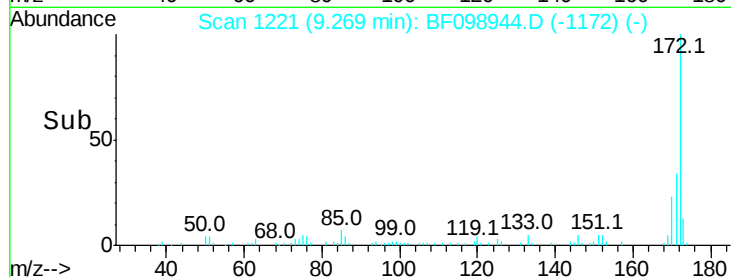
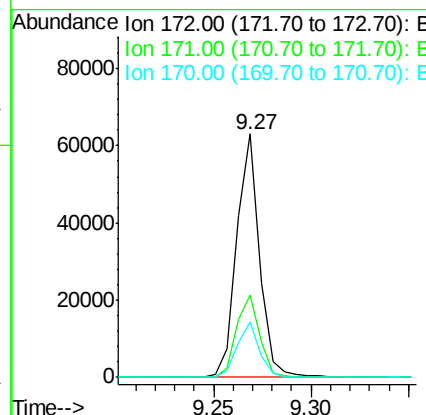
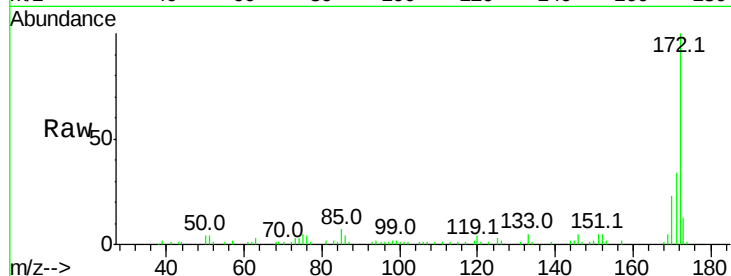




#44
 2-Fluorobiphenyl
 Concen: 3.317 ng
 RT: 9.27 min Scan# 1221
 Delta R.T. -0.01 min
 Lab File: BF098944.D
 Acq: 29 Sep 2017 12:34

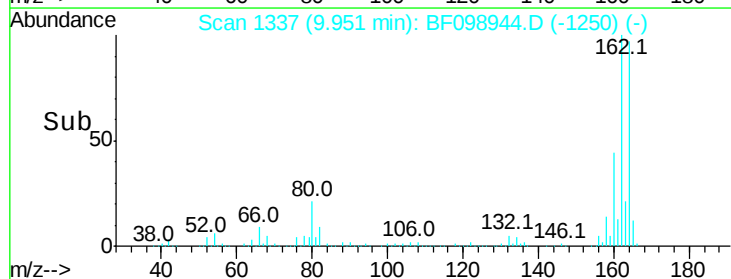
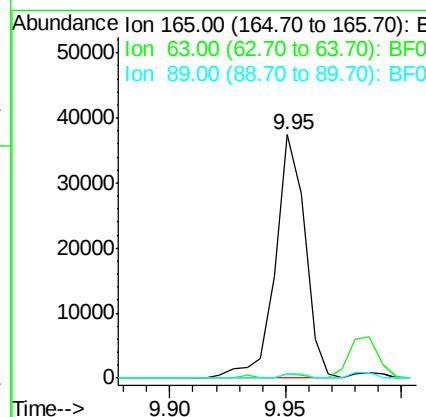
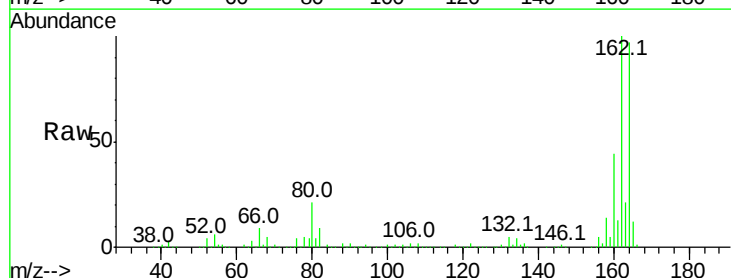
Instrument :
 BNA_F
 ClientSampleId :

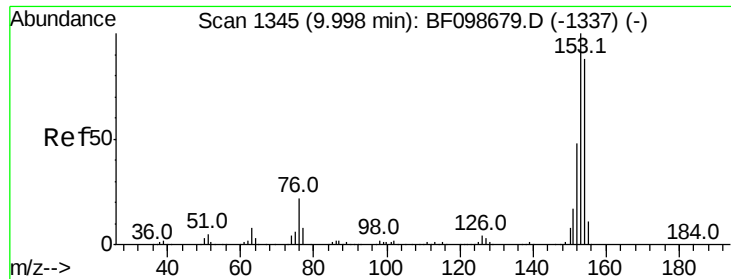
Tot Ion:172 Resp: 51099
 Ion Ratio Lower Upper
 172 100
 171 34.0 29.7 44.5
 170 22.6 19.6 29.4



#50
 2,6-Dinitrotoluene
 Concen: 7.898 ng
 RT: 9.95 min Scan# 1337
 Delta R.T. 0.21 min
 Lab File: BF098944.D
 Acq: 29 Sep 2017 12:34

Tgt Ion:165 Resp: 33372
 Ion Ratio Lower Upper
 165 100
 63 1.5 44.7 67.1#
 89 1.8 44.0 66.0#





#51

Acenaphthene

Concen: 3.798 ng

RT: 9.99 min Scan# 1343

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Instrument :

BNA_F

ClientSampleId :

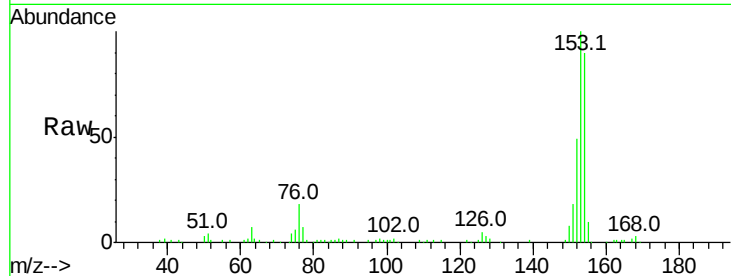
Tot Ion:154 Resp: 61112

Ion Ratio Lower Upper

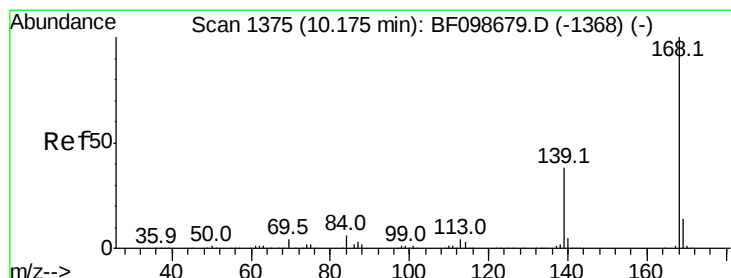
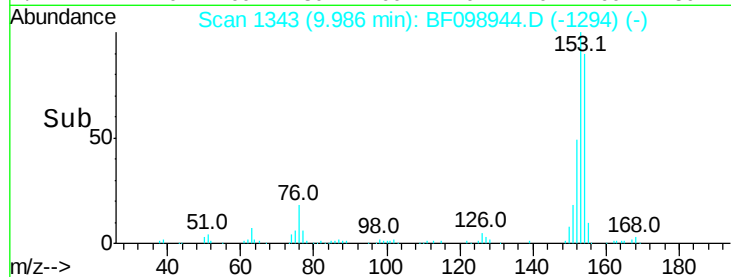
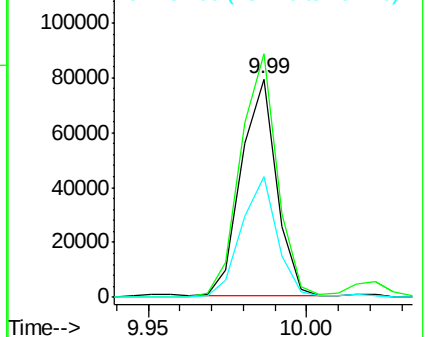
154 100

153 111.4 91.2 136.8

152 55.1 43.8 65.8



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: 3.509 ng

RT: 10.16 min Scan# 1372

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

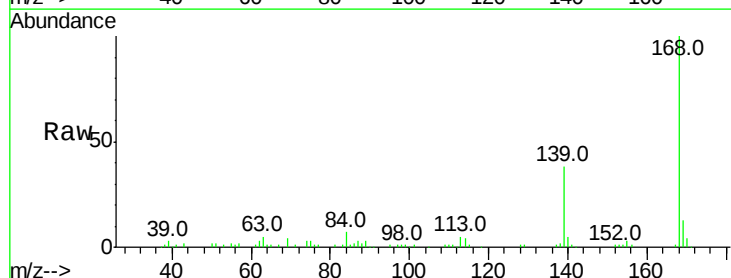
Tgt Ion:168 Resp: 75182

Ion Ratio Lower Upper

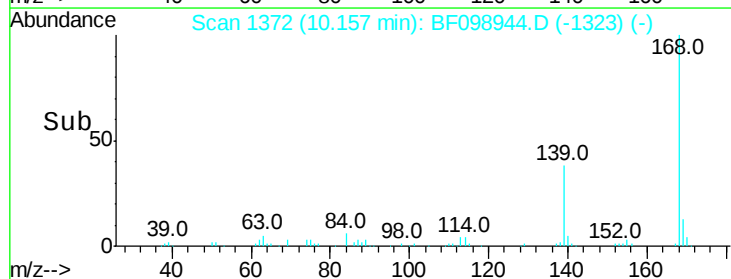
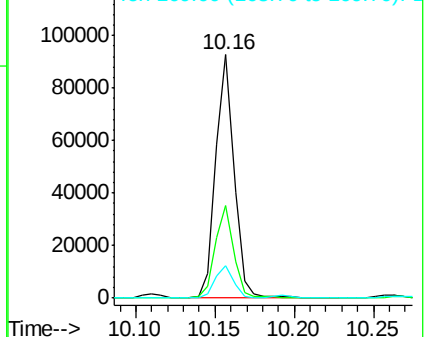
168 100

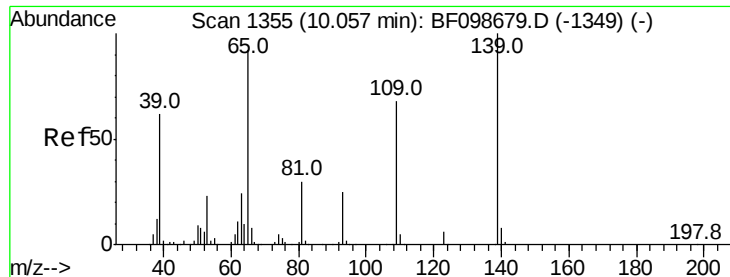
139 37.9 30.1 45.1

169 13.4 10.9 16.3



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: 6.872 ng

RT: 10.16 min Scan# 1372

Delta R.T. 0.10 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Instrument :

BNA_F

ClientSampleId :

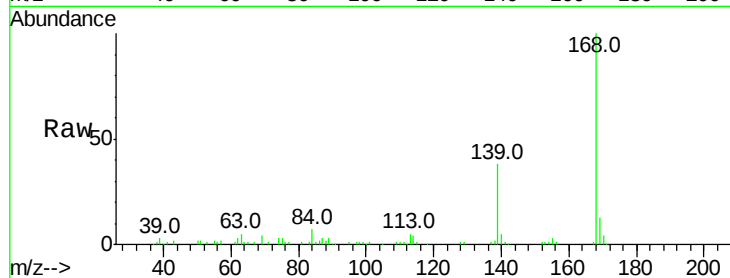
Tot Ion:139 Resp: 28628

Ion Ratio Lower Upper

139 100

109 1.7 48.4 88.4#

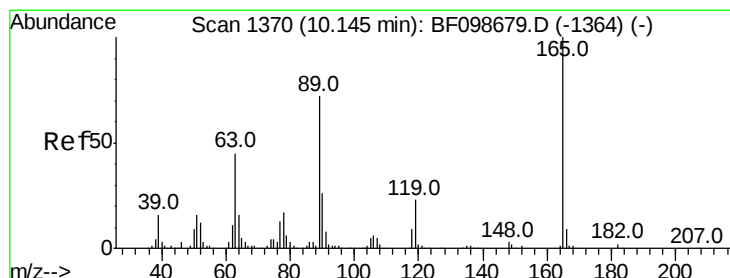
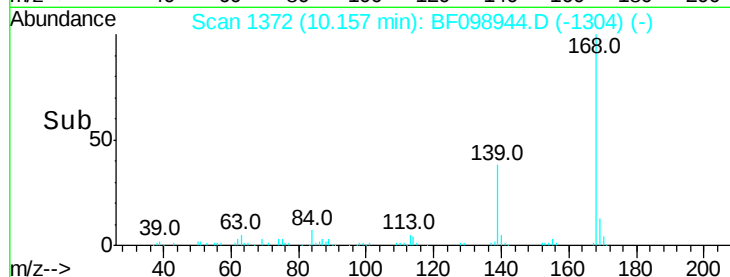
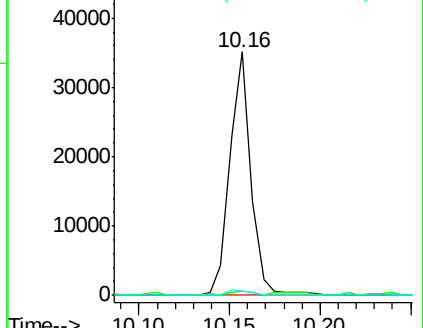
65 1.8 72.6 112.6#



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



#56

2,4-Dinitrotoluene

Concen: 6.085 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.19 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Tgt Ion:165 Resp: 33372

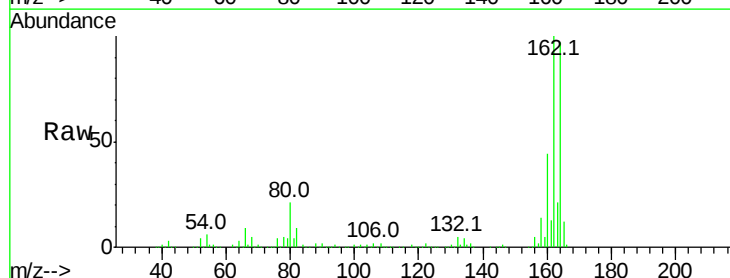
Ion Ratio Lower Upper

165 100

63 1.5 36.4 54.6#

89 1.8 57.8 86.6#

182 0.0 1.6 2.4#

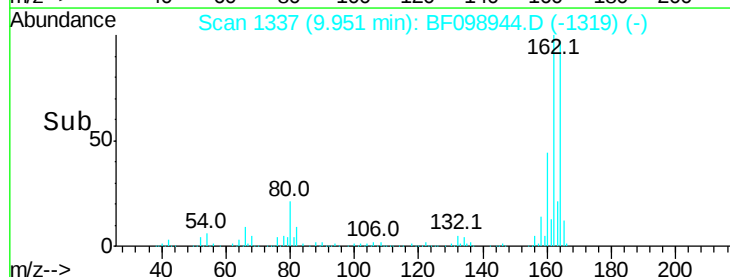
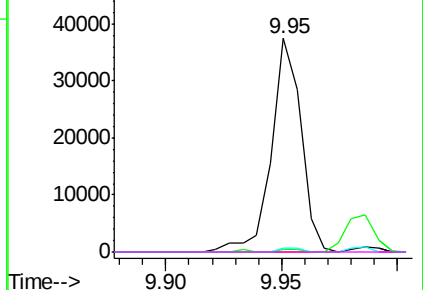


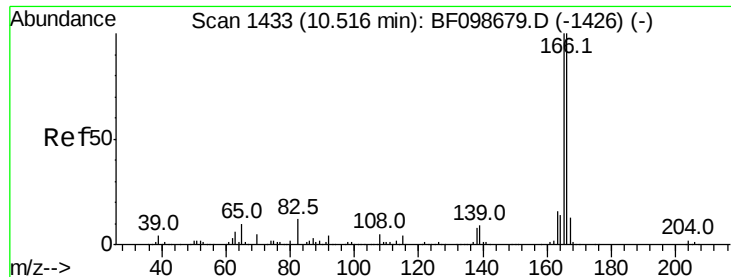
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#57

Fluorene

Concen: 5.511 ng

RT: 10.50 min Scan# 1430

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

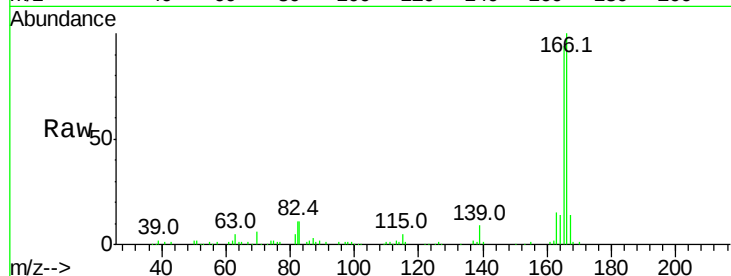
Instrument :

BNA_F

ClientSampleId :

Tot Ion:166 Resp: 94900

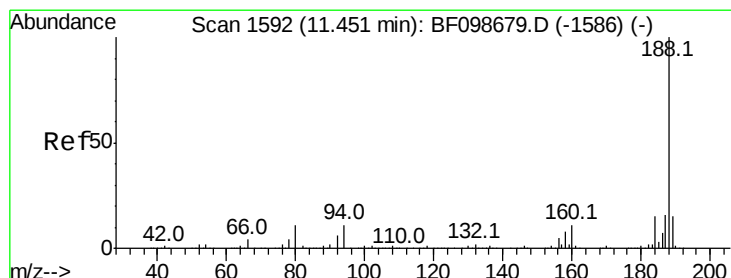
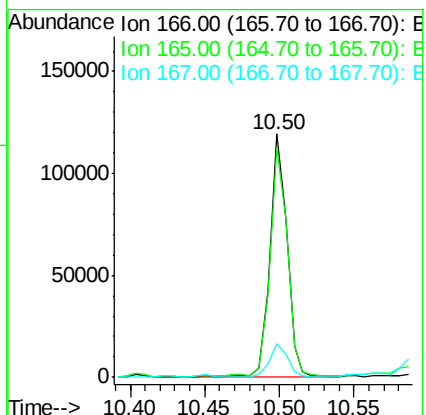
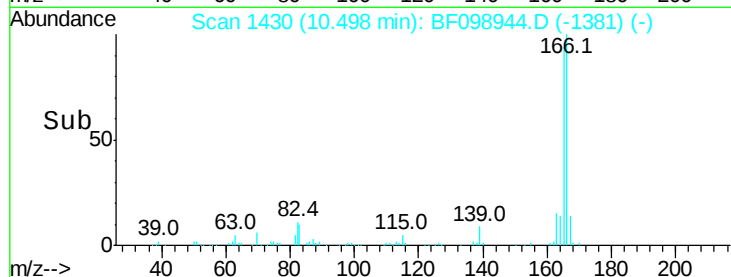
Ion	Ratio	Lower	Upper
166	100		
165	94.1	79.8	119.8
167	13.8	10.6	16.0



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: 11.44 min Scan# 1590

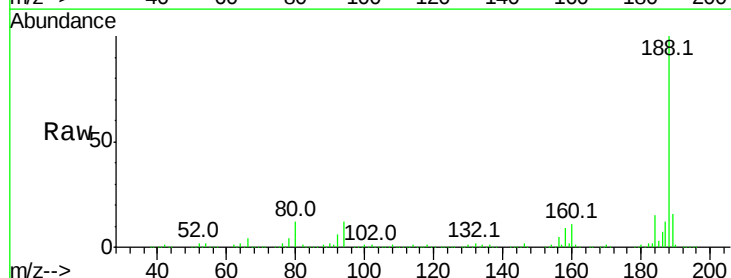
Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Tgt Ion:188 Resp: 382843

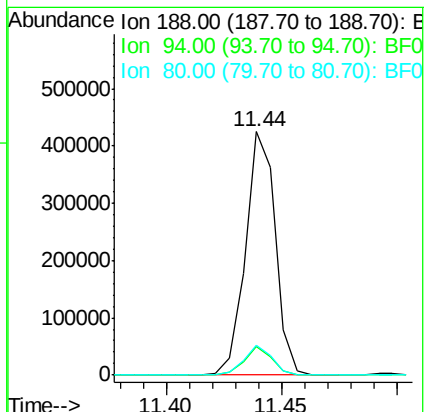
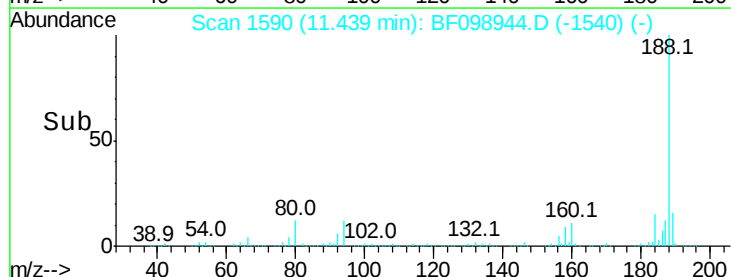
Ion	Ratio	Lower	Upper
188	100		
94	11.6	8.5	12.7
80	12.1	9.2	13.8

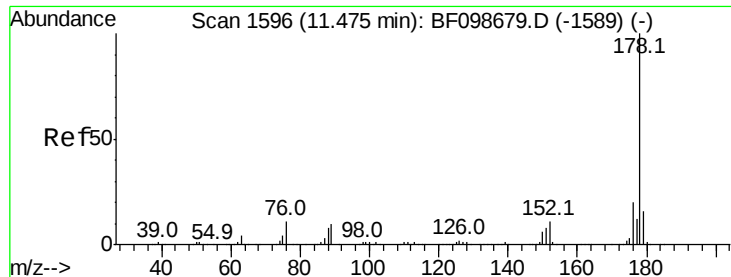


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 28.888 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Instrument :

BNA_F

ClientSampleId :

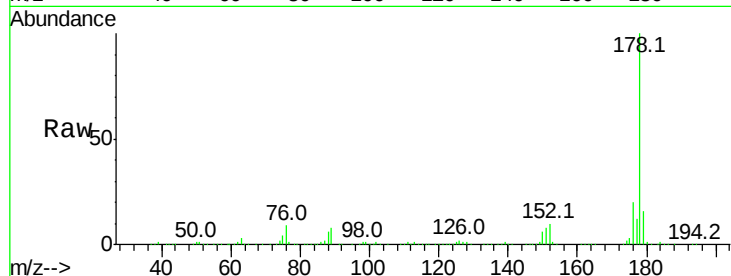
Tot Ion:178 Resp: 591982

Ion Ratio Lower Upper

178 100

176 19.6 15.8 23.8

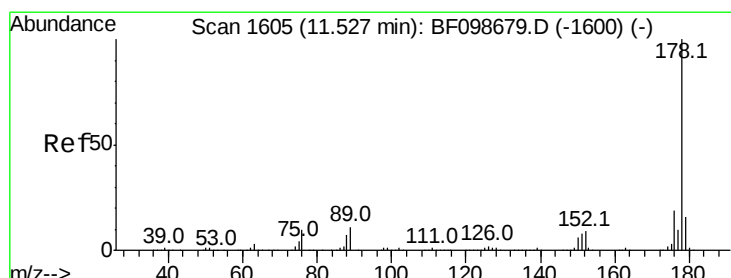
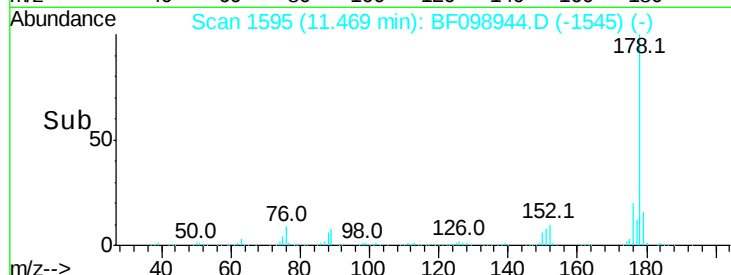
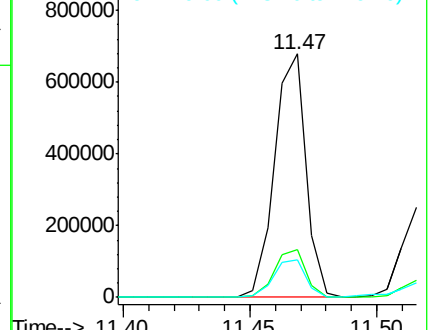
179 15.5 13.0 19.6



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: 9.200 ng

RT: 11.52 min Scan# 1603

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

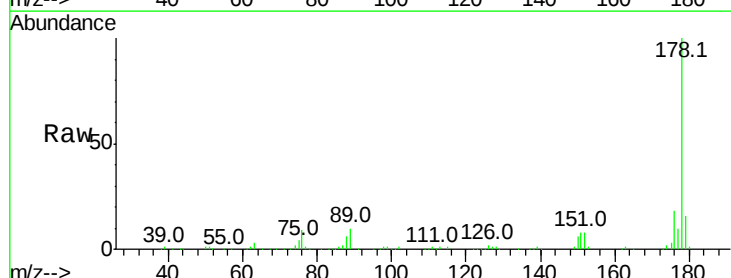
Tgt Ion:178 Resp: 192901

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

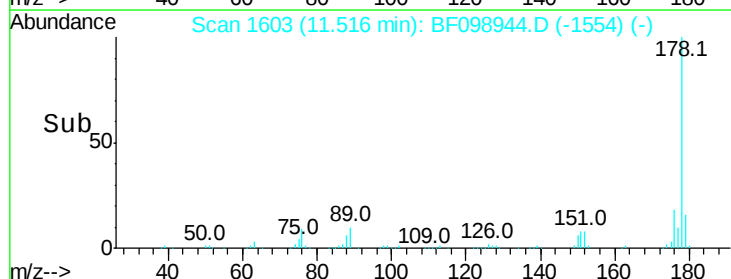
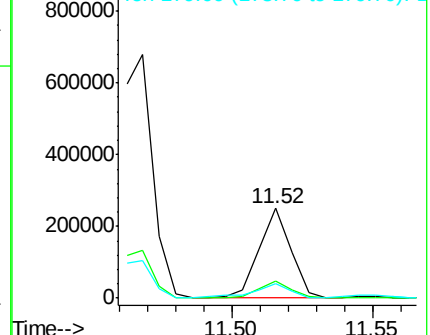
179 15.7 12.6 19.0

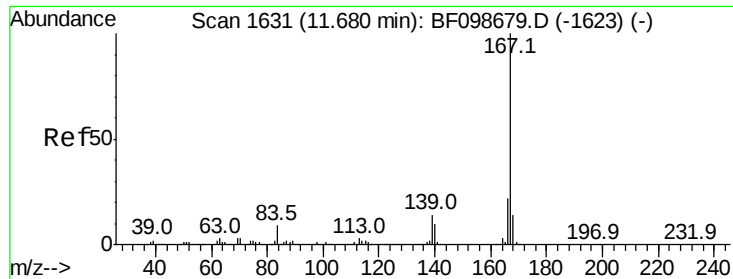


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.157 ng

RT: 11.67 min Scan# 1629

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

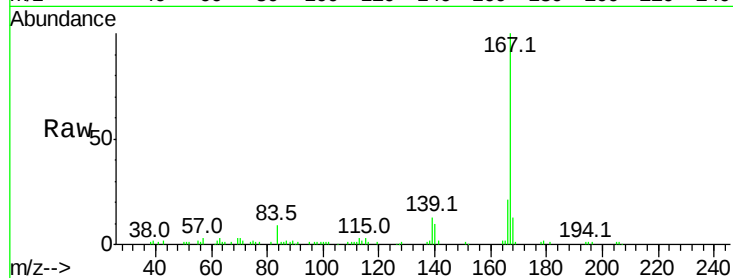
Instrument :

BNA_F

ClientSampleId :

Tot Ion:167 Resp: 64820

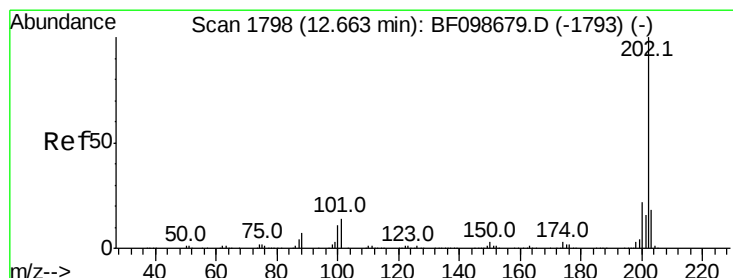
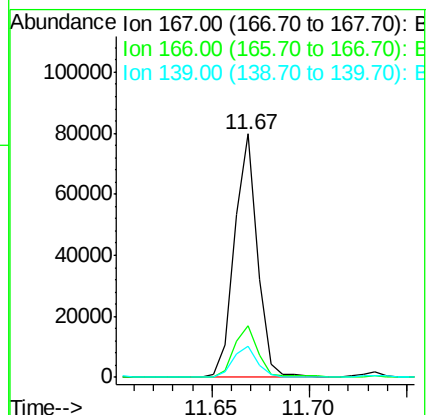
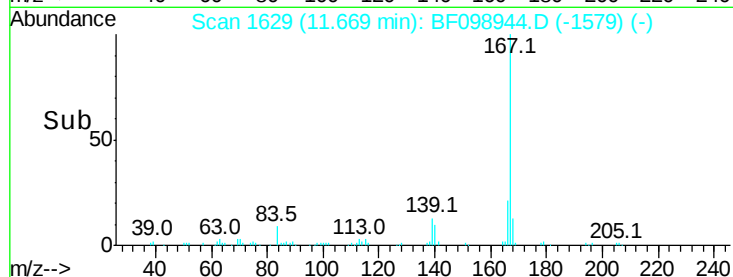
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.6	26.4
139	12.6	10.9	16.3



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: 27.006 ng

RT: 12.66 min Scan# 1797

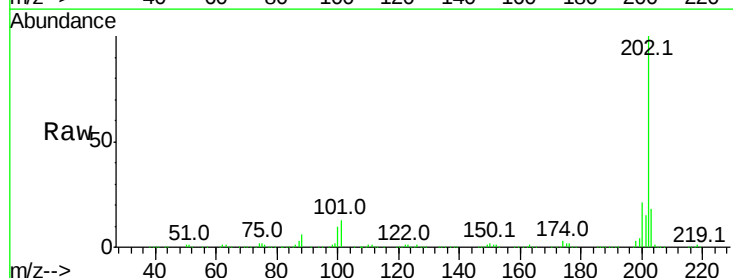
Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Tgt Ion:202 Resp: 560392

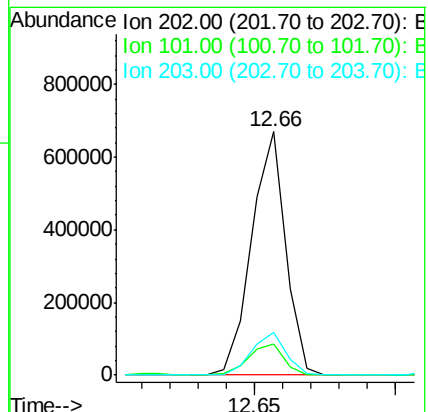
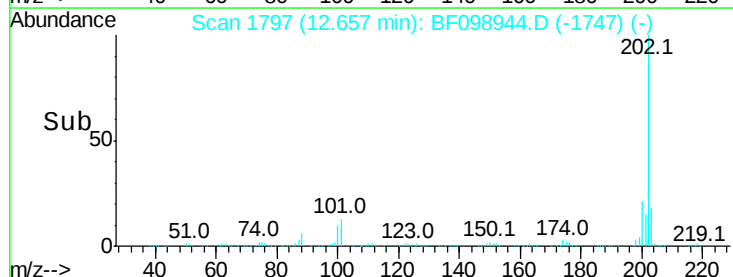
Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	34.1
203	17.6	0.0	38.1

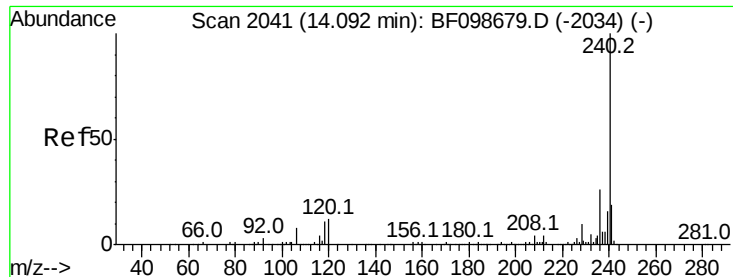


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Instrument :

BNA_F

ClientSampleId :

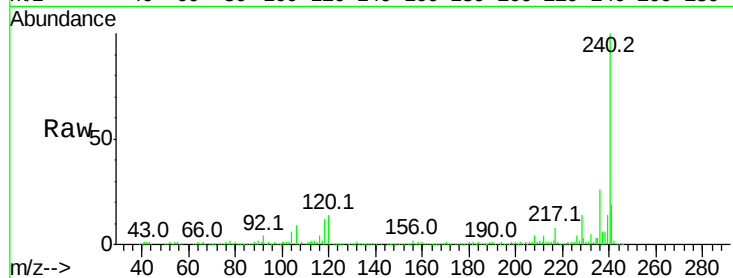
Tot Ion:240 Resp: 222529

Ion Ratio Lower Upper

240 100

120 14.1 9.5 14.3

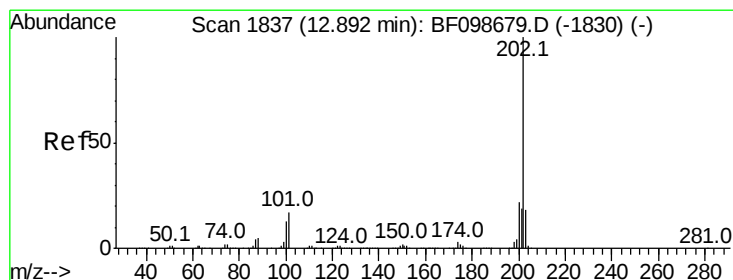
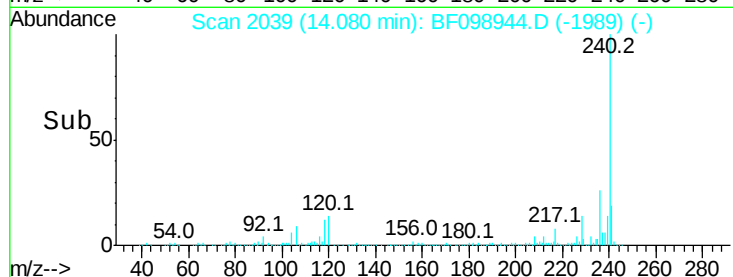
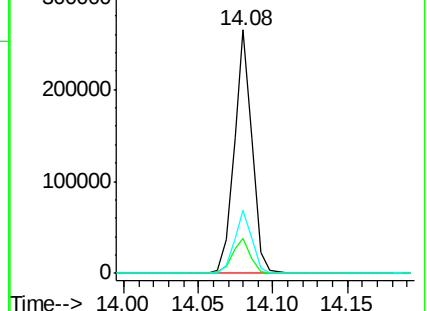
236 26.0 20.7 31.1



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: 26.366 ng

RT: 12.89 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

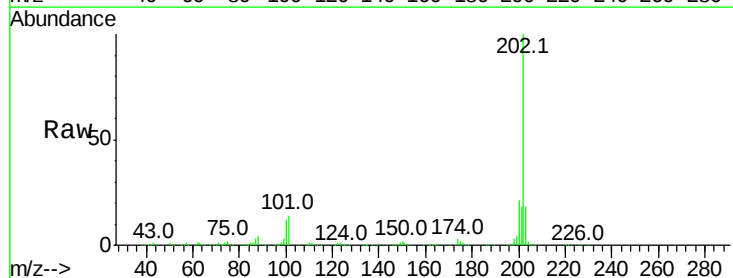
Tgt Ion:202 Resp: 447395

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

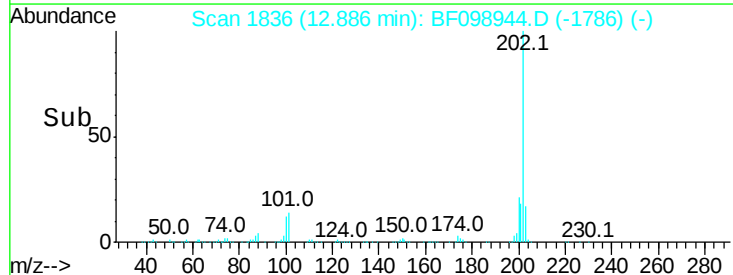
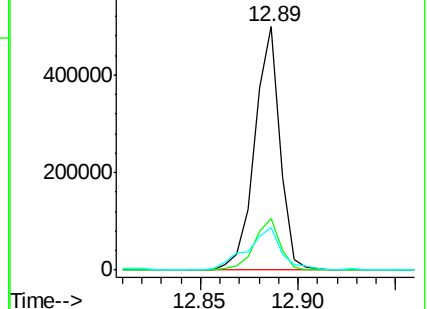
203 17.6 14.3 21.5

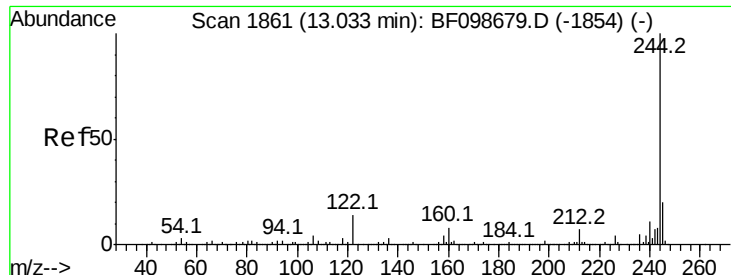


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 3.066 ng

RT: 13.02 min Scan# 1858

Delta R.T. -0.02 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Instrument :

BNA_F

ClientSampleId :

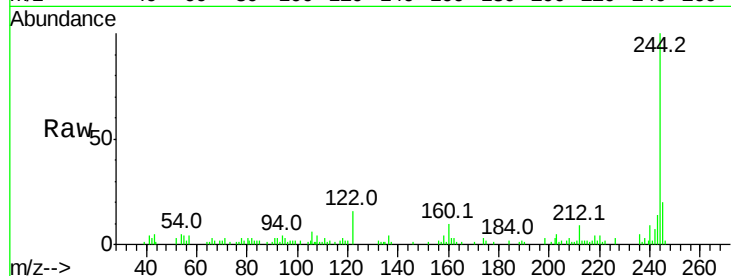
Tot Ion:244 Resp: 29999

Ion Ratio Lower Upper

244 100

212 8.8 5.4 8.0#

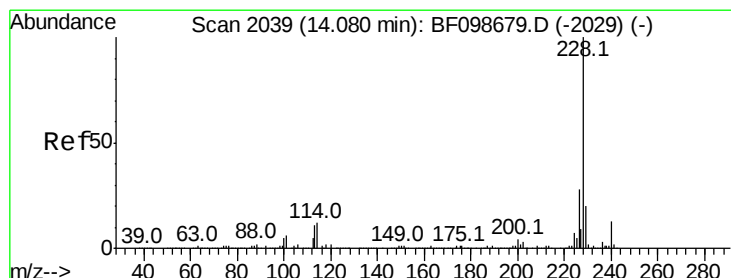
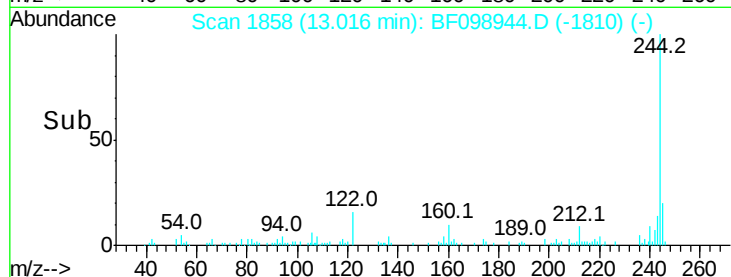
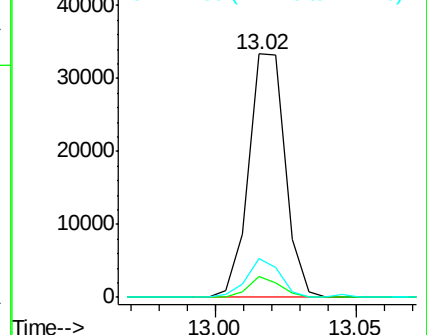
122 15.9 11.0 16.4



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: 14.286 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

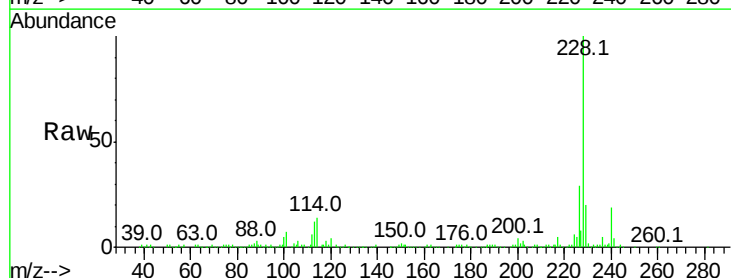
Tgt Ion:228 Resp: 192501

Ion Ratio Lower Upper

228 100

226 29.5 22.6 33.8

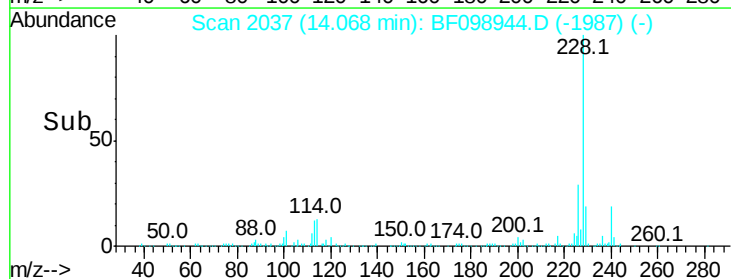
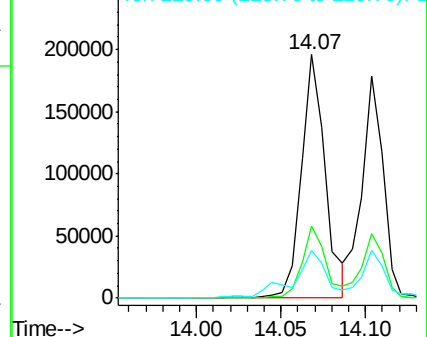
229 19.7 15.8 23.6

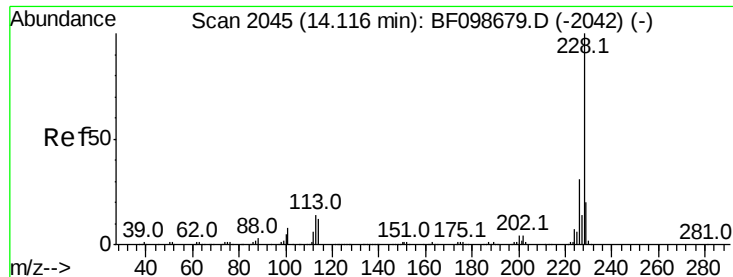


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 12.257 ng

RT: 14.10 min Scan# 2043

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Instrument :

BNA_F

ClientSampleId :

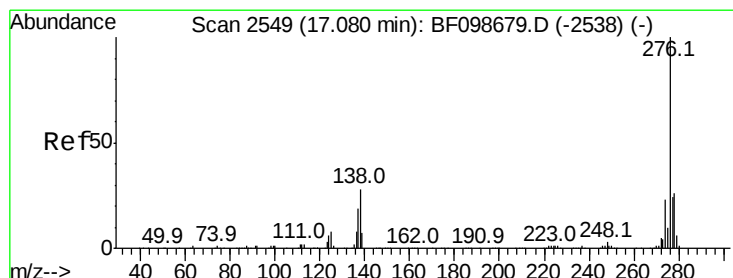
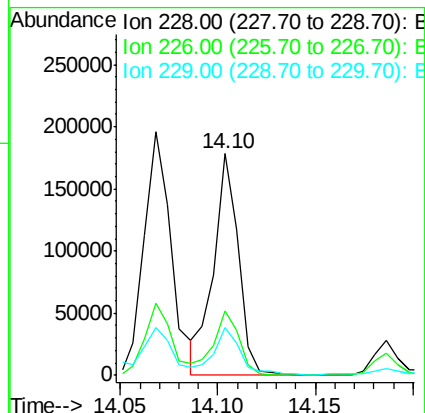
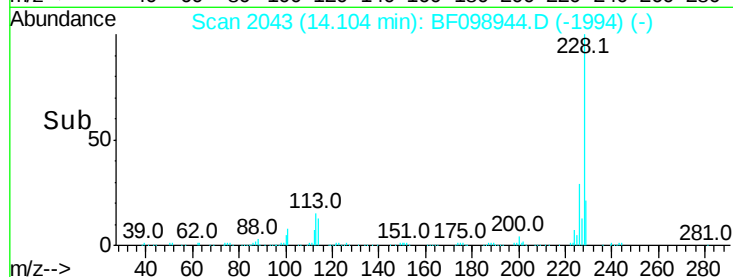
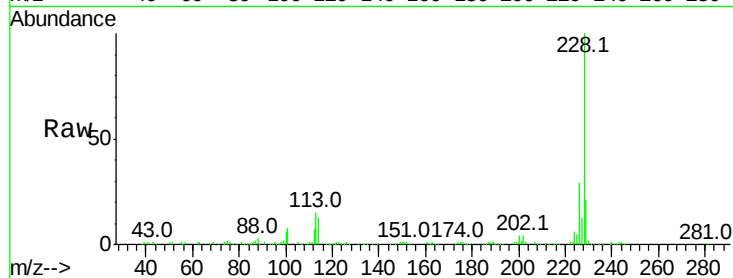
Tot Ion:228 Resp: 157237

Ion Ratio Lower Upper

228 100

226 29.2 25.0 37.6

229 21.4 16.2 24.4



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.725 ng

RT: 17.08 min Scan# 2549

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

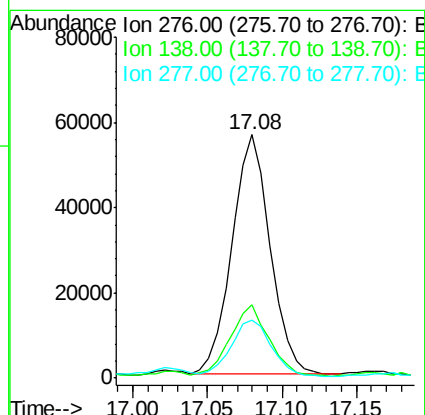
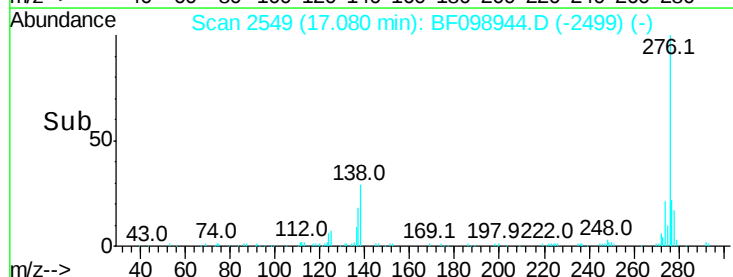
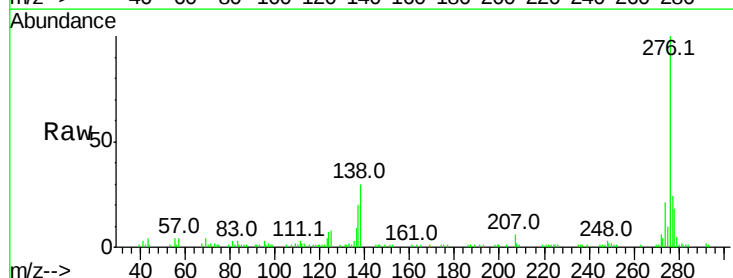
Tgt Ion:276 Resp: 99794

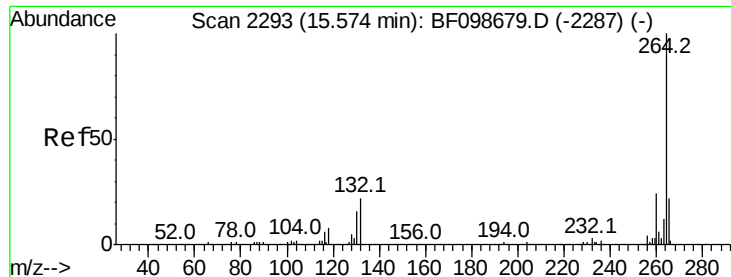
Ion Ratio Lower Upper

276 100

138 31.0 25.0 37.6

277 25.2 20.1 30.1

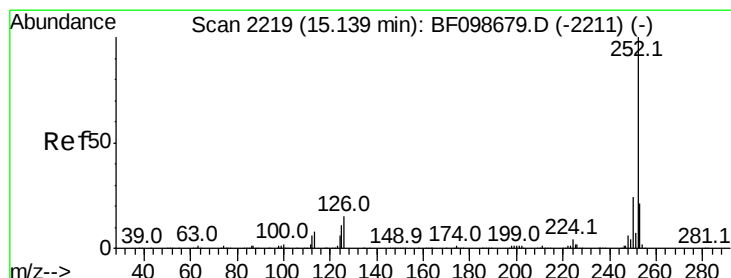
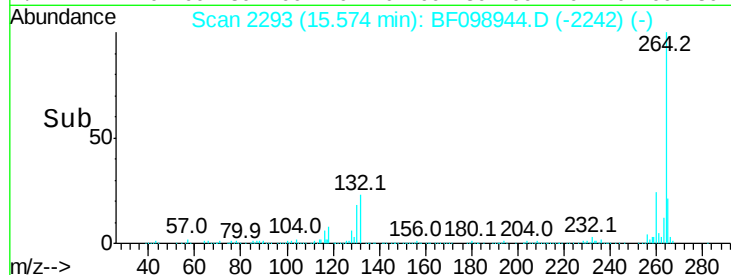
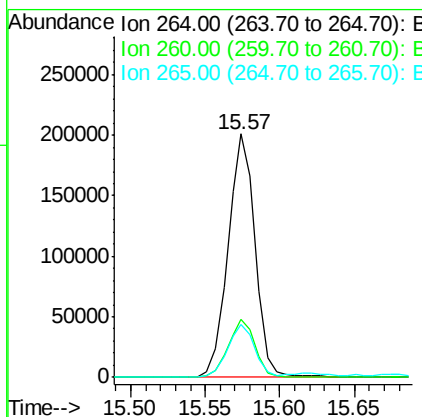
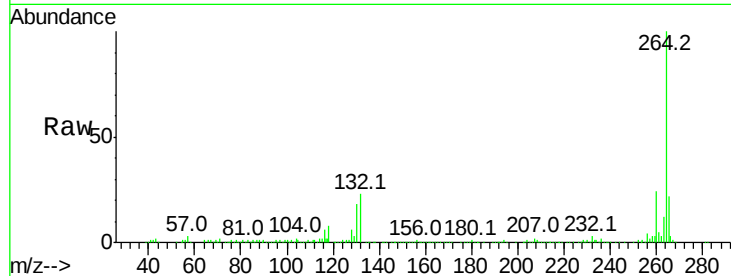




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.57 min Scan# 2293
Delta R.T. -0.00 min
Lab File: BF098944.D
Acq: 29 Sep 2017 12:34

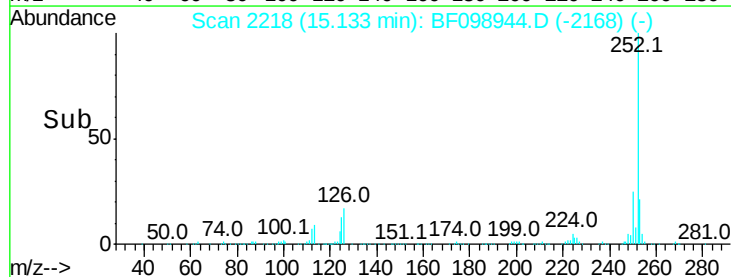
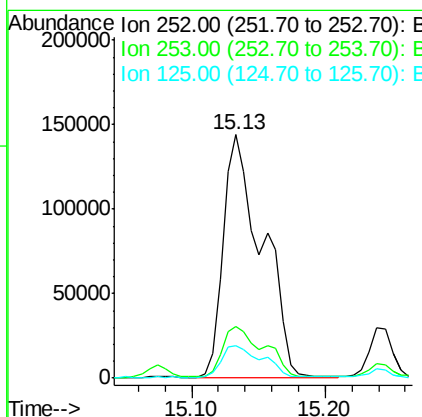
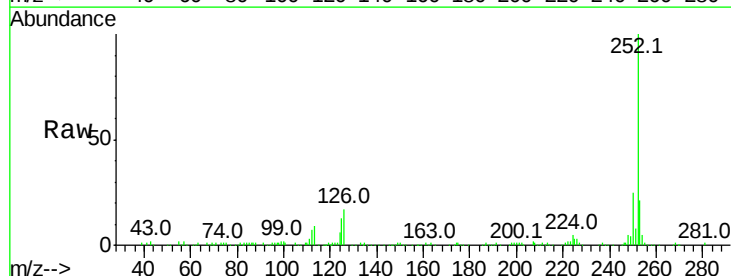
Instrument :
BNA_F
ClientSampleId :

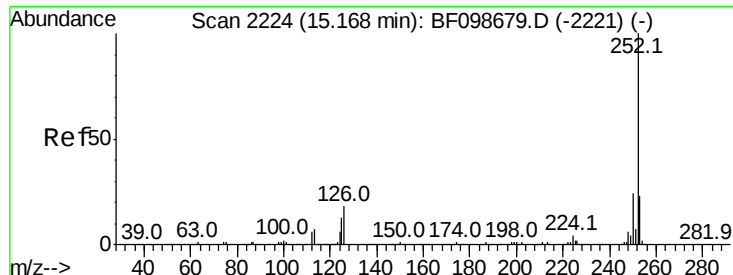
Tot Ion:264 Resp: 255670
Ion Ratio Lower Upper
264 100
260 23.7 19.2 28.8
265 21.7 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 18.608 ng
RT: 15.13 min Scan# 2218
Delta R.T. -0.01 min
Lab File: BF098944.D
Acq: 29 Sep 2017 12:34

Tgt Ion:252 Resp: 292510
Ion Ratio Lower Upper
252 100
253 21.1 17.0 25.6
125 13.3 9.0 13.6

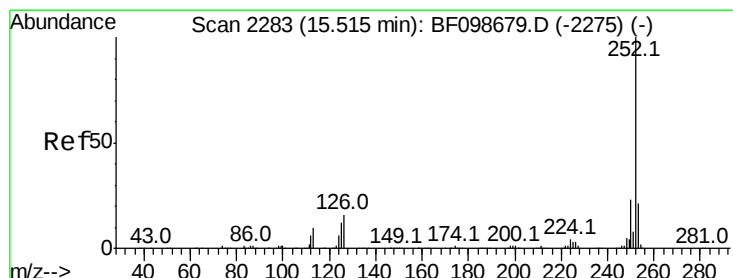
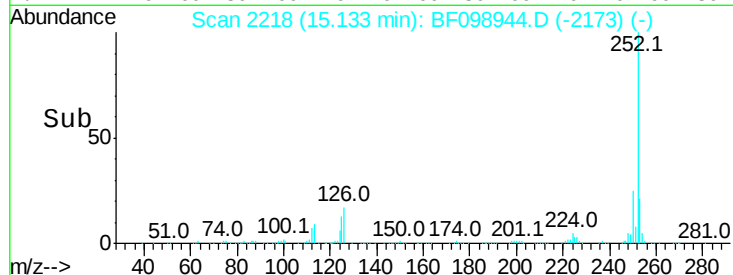
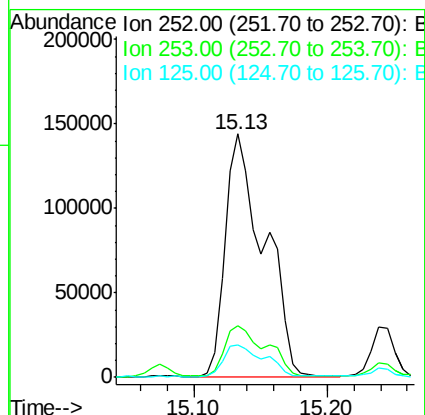
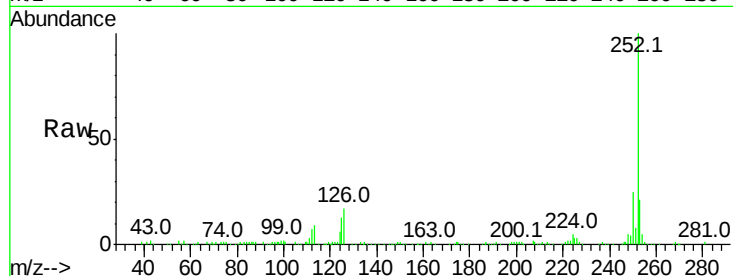




#88
Benzo(k)fluoranthene
Concen: 18.840 ng
RT: 15.13 min Scan# 2218
Delta R.T. -0.04 min
Lab File: BF098944.D
Acq: 29 Sep 2017 12:34

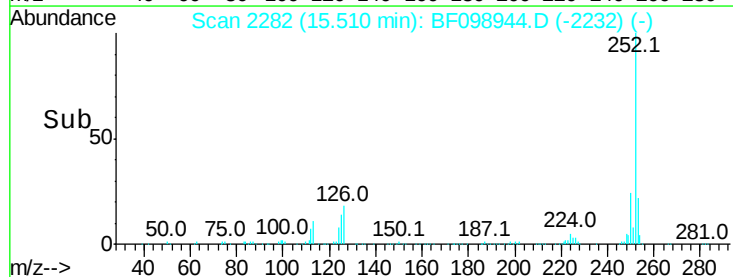
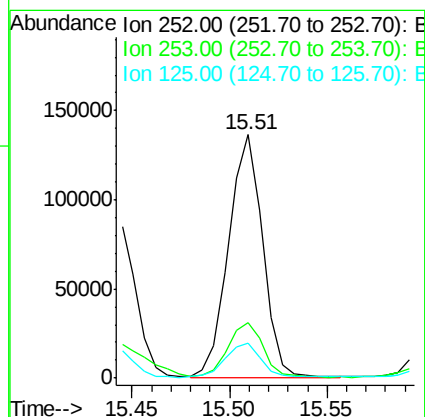
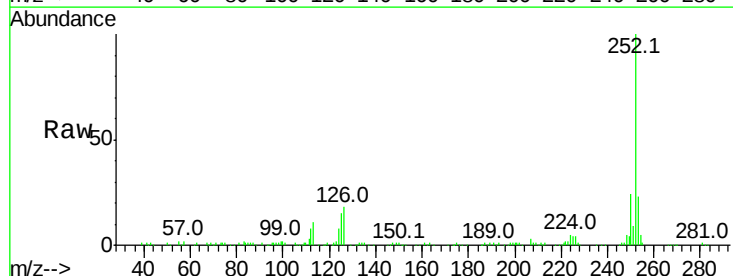
Instrument :
BNA_F
ClientSampleId :

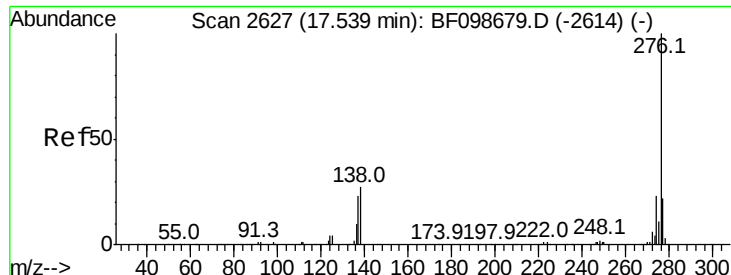
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.9	26.9
125	13.3	10.2	15.2



#89
Benzo(a)pyrene
Concen: 11.425 ng
RT: 15.51 min Scan# 2282
Delta R.T. -0.01 min
Lab File: BF098944.D
Acq: 29 Sep 2017 12:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	14.5	9.8	14.6





#91

Benzo(a,h,i)perylene

Concen: 8.316 ng

RT: 17.54 min Scan# 2627

Delta R.T. -0.01 min

Lab File: BF098944.D

Acq: 29 Sep 2017 12:34

Instrument :

BNA_F

ClientSampleId :

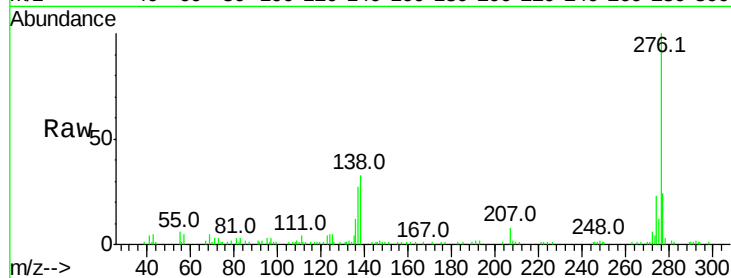
Tot Ion: 276 Resp: 94923

Ion Ratio Lower Upper

276 100

277 24.1 17.9 26.9

138 33.2 21.8 32.8#



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

