

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094130.D
 Acq On : 3 Apr 2017 19:32
 Operator : SJ/MA
 Sample : I2501-04 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Quant Time: Apr 04 01:05:46 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	200319	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	782628	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	336117	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	508338	20.00	ng	-0.01
75) Chrysene-d12	14.63	240	270735	20.00	ng	0.00
86) Perylene-d12	16.26	264	342545	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.42	112	609808	51.42	ng	-0.02
7) Phenol-d6	5.49	99	763033	52.01	ng	-0.02
23) Nitrobenzene-d5	6.53	82	451295	32.91	ng	-0.02
41) 2,4,6-Tribromophenol	10.50	330	127223	47.90	ng	-0.02
44) 2-Fluorobiphenyl	8.71	172	701130	31.82	ng	-0.02
78) Terphenyl-d14	13.34	244	340283	28.17	ng	-0.01

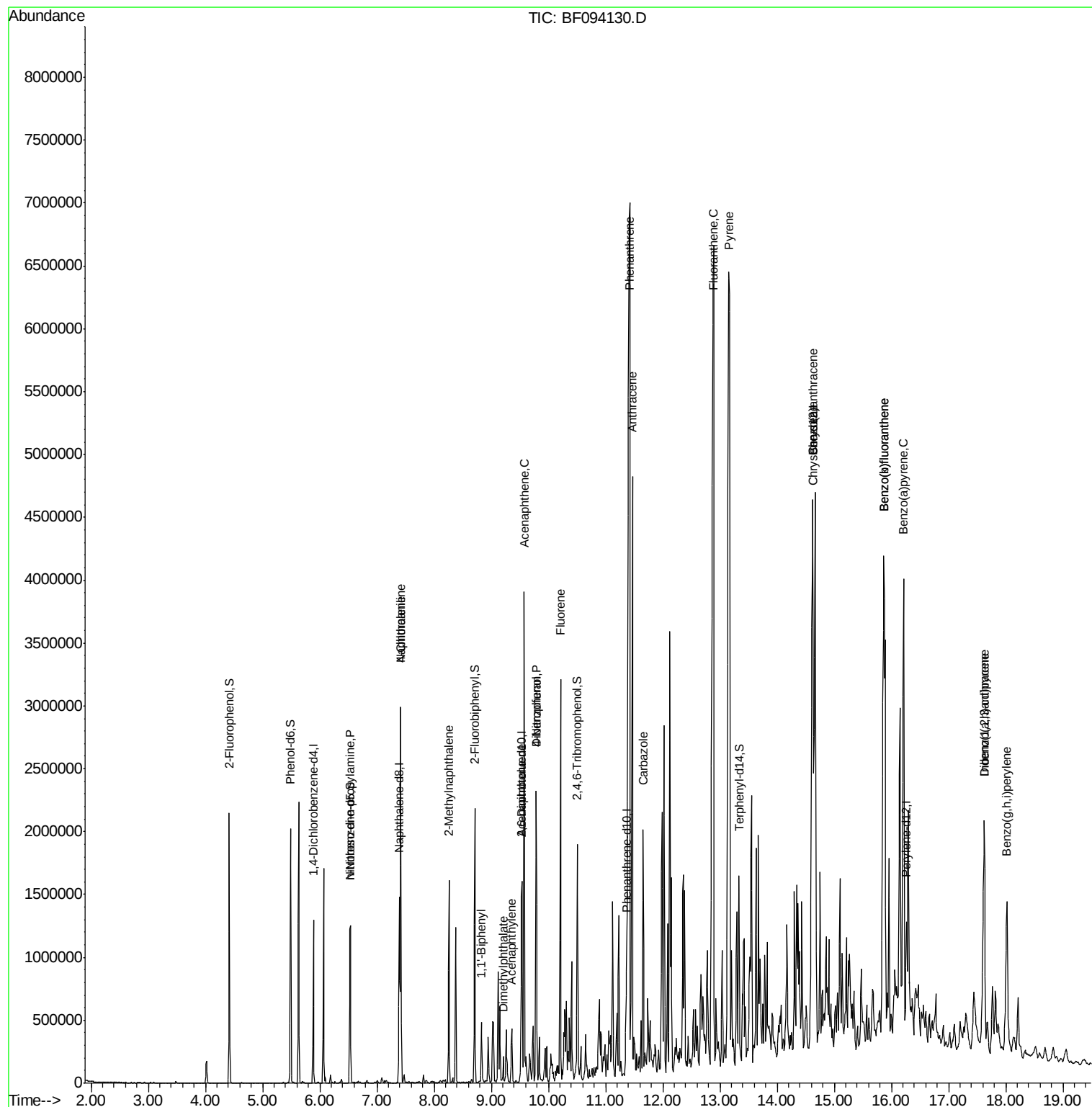
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	6.53	70	57636	6.11	ng	# 78
31) Naphthalene	7.42	128	1493733	39.69	ng	99
33) 4-Chloroaniline	7.42	127	201349	13.20	ng	# 32
37) 2-Methylnaphthalene	8.26	142	459502	18.32	ng	97
45) 1,1'-Biphenyl	8.83	154	148511	5.48	ng	96
48) Acenaphthylene	9.36	152	113421	3.22	ng	# 94
49) Dimethylphthalate	9.21	163	83019	3.47	ng	98
50) 2,6-Dinitrotoluene	9.53	165	61988	11.32	ng	# 42
51) Acenaphthene	9.57	154	996269	48.41	ng	99
54) Dibenzofuran	9.79	168	930059	33.20	ng	99
55) 4-Nitrophenol	9.79	139	349772	69.44	ng	# 27
57) Fluorene	10.21	166	970658	41.78	ng	99
70) Phenanthrene	11.42	178	6211822	219.67	ng	100
71) Anthracene	11.47	178	2182856	74.97	ng	100
72) Carbazole	11.66	167	776571	26.01	ng	98
74) Fluoranthene	12.89	202	6396292	220.90	ng	99
77) Pyrene	13.17	202	5343161	271.94	ng	98
80) Benzo(a)anthracene	14.62	228	3013169	190.86	ng	99
82) Chrysene	14.62	228	3013169	205.67	ng	96
85) Indeno(1,2,3-cd)pyrene	17.62	276	1292469	101.86	ng	94
87) Benzo(b)fluoranthene	15.87	252	4075723	194.11	ng	97
88) Benzo(k)fluoranthene	15.87	252	4075723	198.39	ng	97
89) Benzo(a)pyrene	16.22	252	2256514	116.70	ng	95
90) Dibenzo(a,h)anthracene	17.63	278	338804	20.69	ng	92
91) Benzo(g,h,i)perylene	18.02	276	1077645	65.30	ng	98

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

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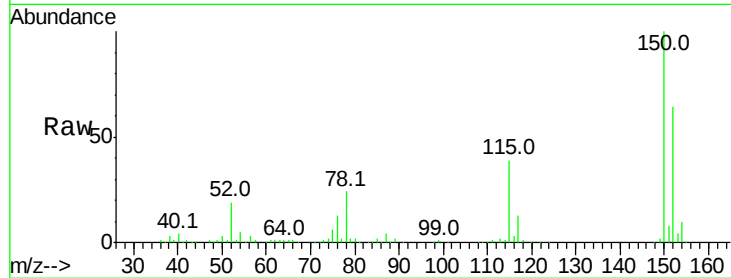


#1

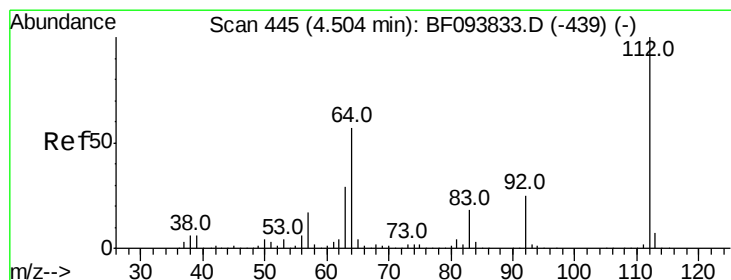
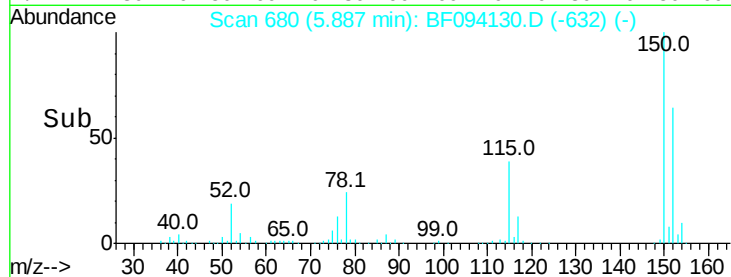
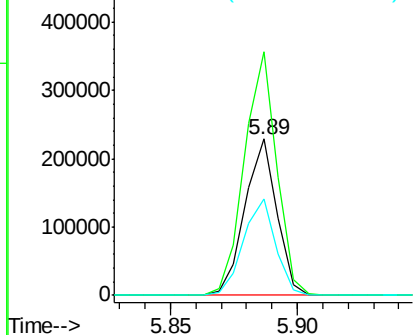
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.89 min Scan# 680
 Delta R.T. -0.02 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Tot Ion:152 Resp: 200319
 Ion Ratio Lower Upper
 152 100
 150 155.7 126.2 189.2
 115 61.5 52.2 78.2



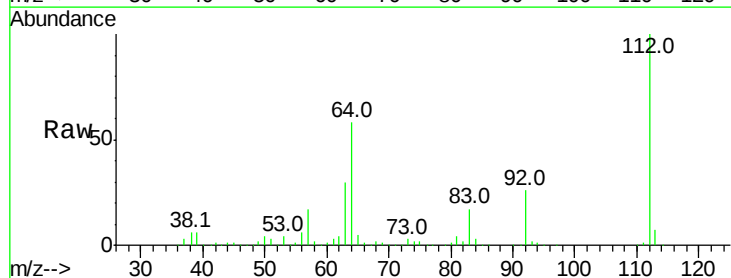
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



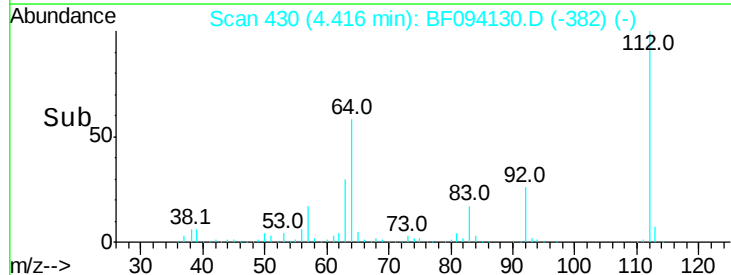
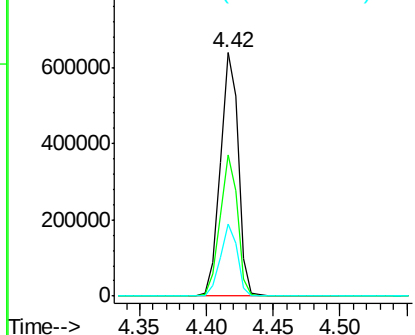
#5

2-Fluorophenol
 Concen: 51.42 ng
 RT: 4.42 min Scan# 430
 Delta R.T. -0.02 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Tgt Ion:112 Resp: 609808
 Ion Ratio Lower Upper
 112 100
 64 57.8 46.0 69.0
 63 29.6 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: 52.01 ng

RT: 5.49 min Scan# 612

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampled :

TP-4

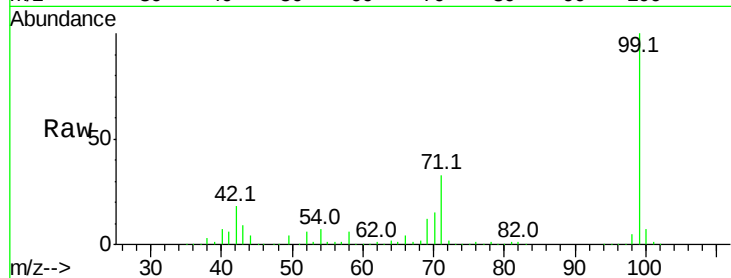
Tot Ion: 99 Resp: 763033

Ion Ratio Lower Upper

99 100

42 18.0 13.5 20.3

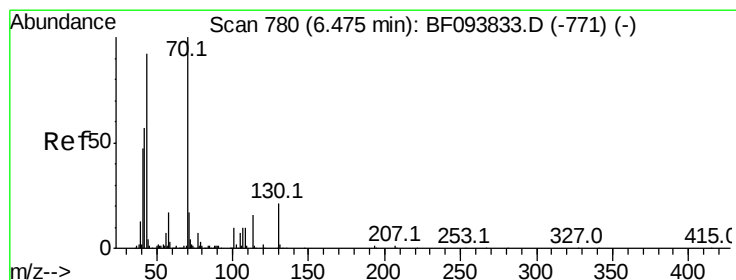
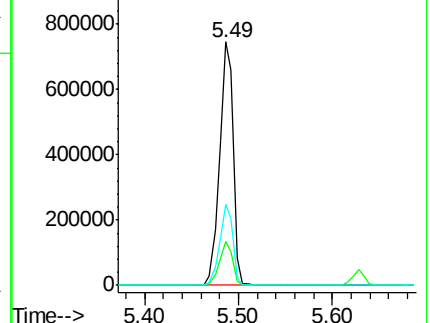
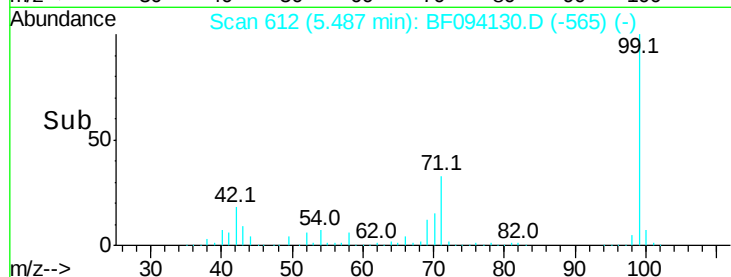
71 33.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 6.11 ng

RT: 6.53 min Scan# 789

Delta R.T. 0.14 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Tgt Ion: 70 Resp: 57636

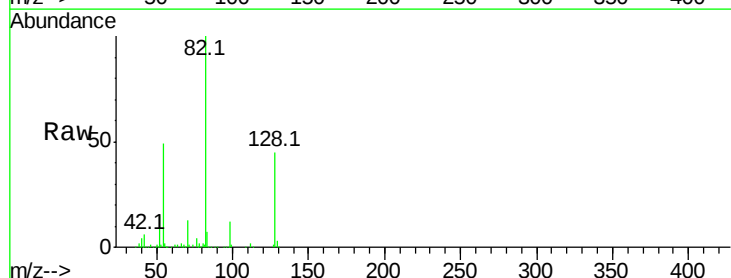
Ion Ratio Lower Upper

70 100

42 46.5 47.2 70.8#

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

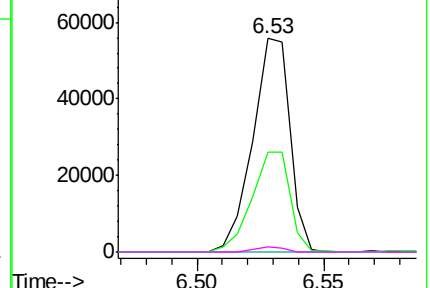
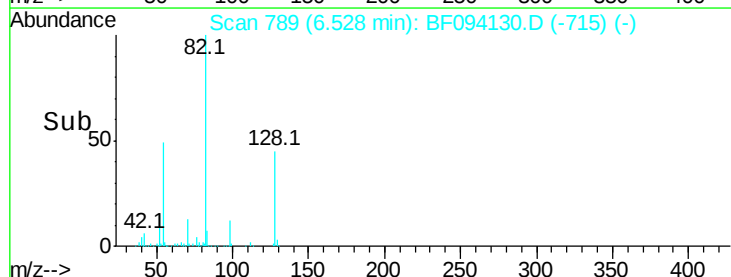


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.39 min Scan# 936

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampleId :

TP-4

Tot Ion:136 Resp: 782628

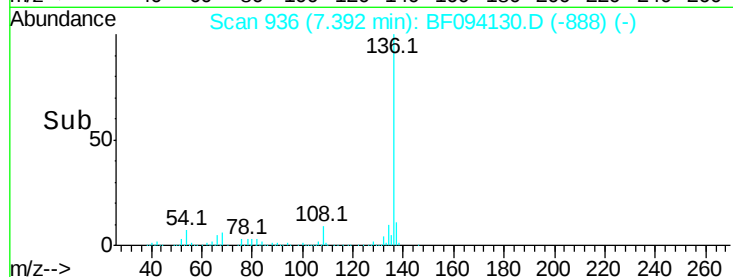
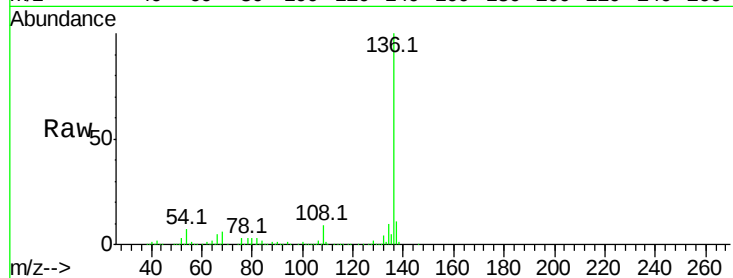
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 7.1 4.9 7.3

68 5.7 4.1 6.1

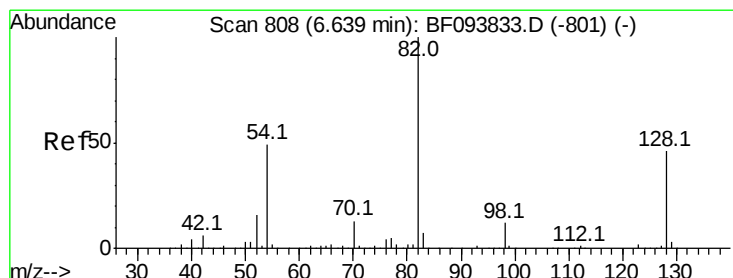
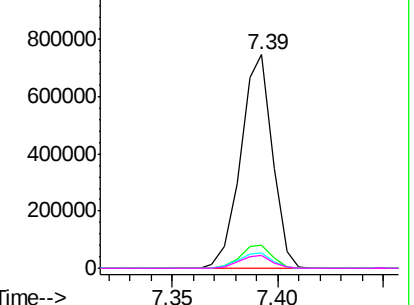


Abundance Ion 136.00 (135.70 to 136.70): E

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: 32.91 ng

RT: 6.53 min Scan# 790

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

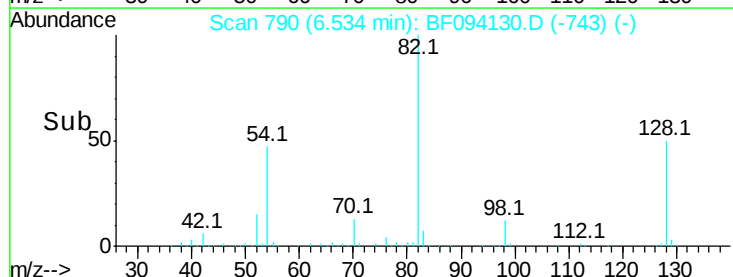
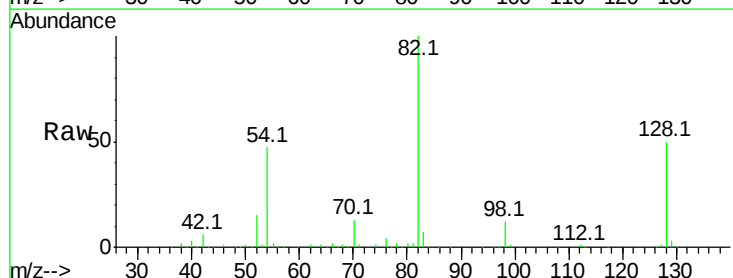
Tgt Ion: 82 Resp: 451295

Ion Ratio Lower Upper

82 100

128 49.7 34.0 51.0

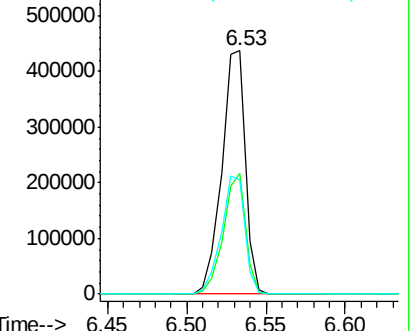
54 47.2 42.2 63.2

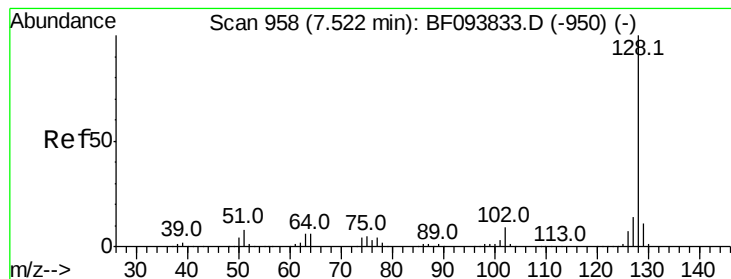


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 39.69 ng

RT: 7.42 min Scan# 940

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampleId :

TP-4

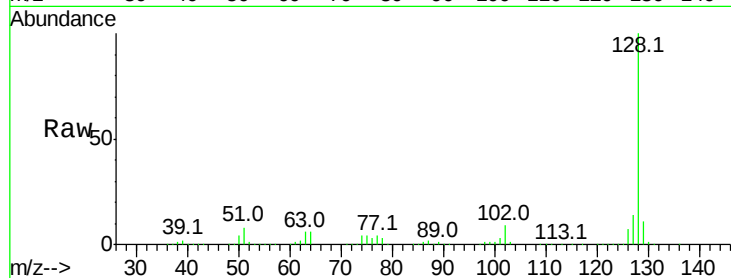
Tot Ion:128 Resp: 1493733

Ion Ratio Lower Upper

128 100

129 11.5 9.0 13.6

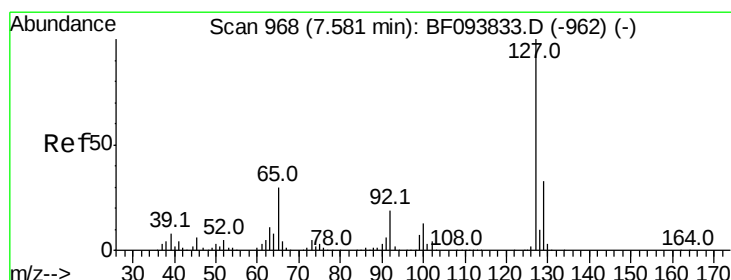
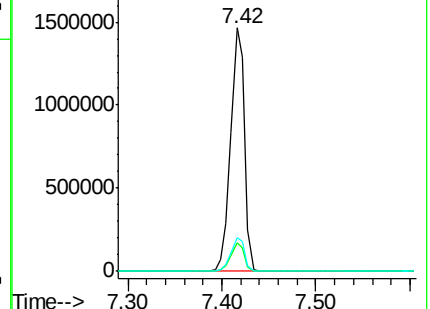
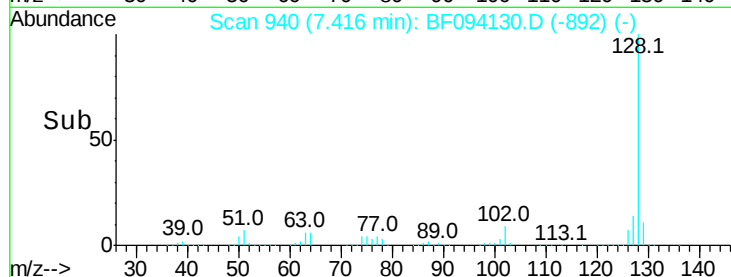
127 13.8 10.8 16.2



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



#33

4-Chloroaniline

Concen: 13.20 ng

RT: 7.42 min Scan# 940

Delta R.T. -0.09 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Tgt Ion:127 Resp: 201349

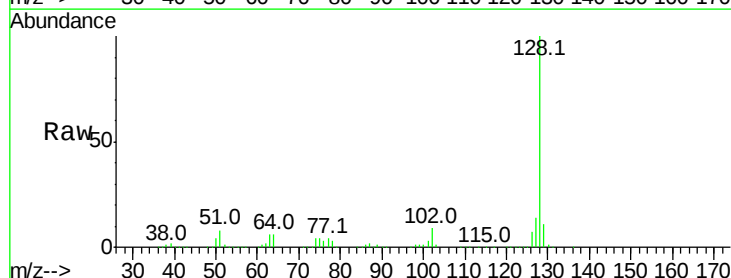
Ion Ratio Lower Upper

127 100

129 83.6 26.2 39.2#

65 0.0 27.8 41.8#

92 0.0 16.8 25.2#

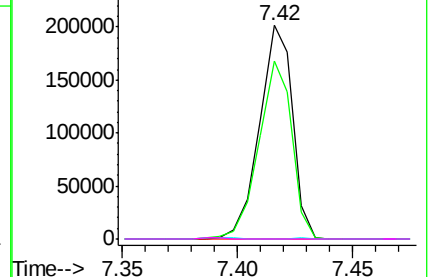
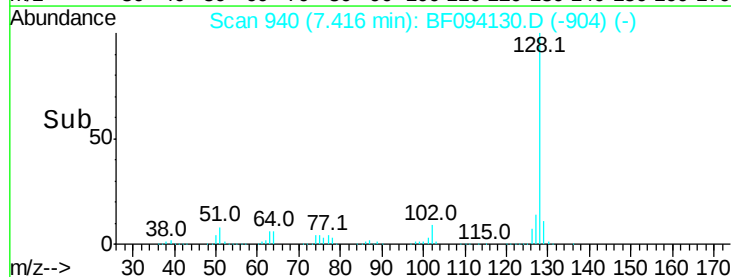


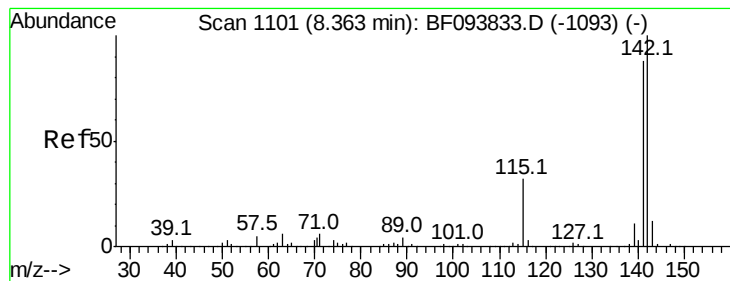
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0





#37

2-Methylnaphthalene

Concen: 18.32 ng

RT: 8.26 min Scan# 1083

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

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ClientSampleId :

TP-4

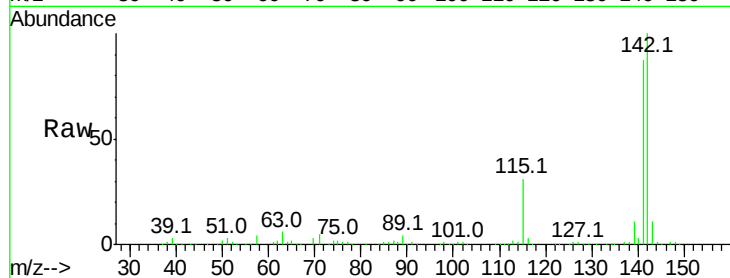
Tot Ion:142 Resp: 459502

Ion Ratio Lower Upper

142 100

141 86.8 71.3 106.9

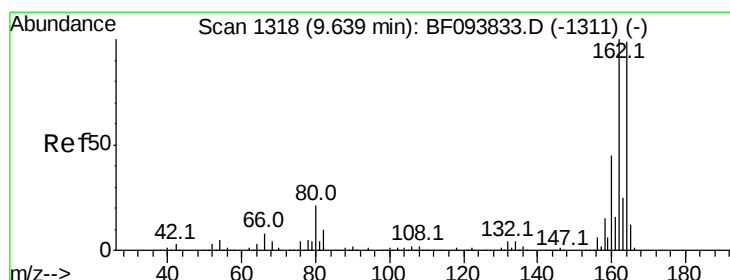
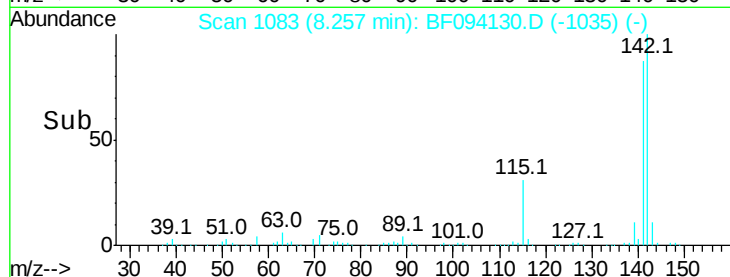
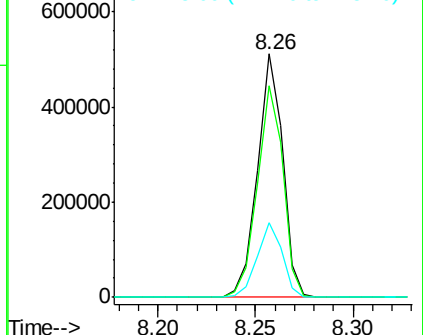
115 30.8 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.53 min Scan# 1300

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

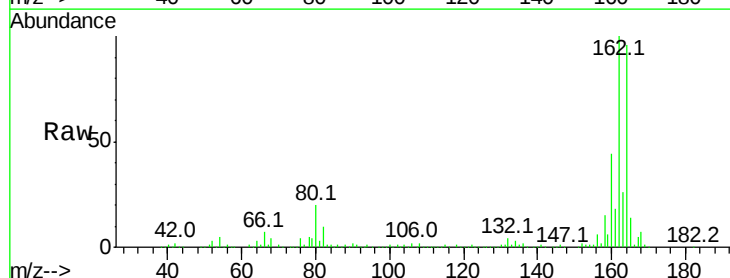
Tgt Ion:164 Resp: 336117

Ion Ratio Lower Upper

164 100

162 103.9 82.6 123.8

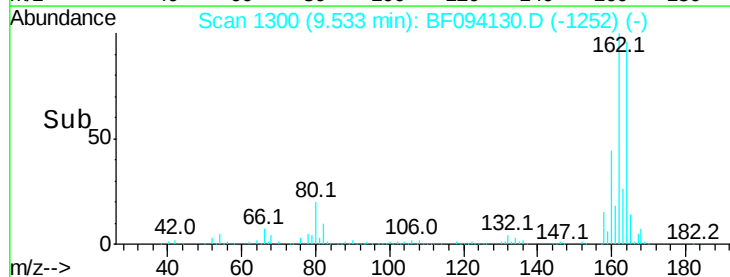
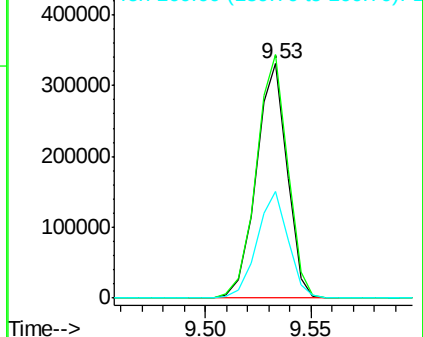
160 45.5 36.2 54.2

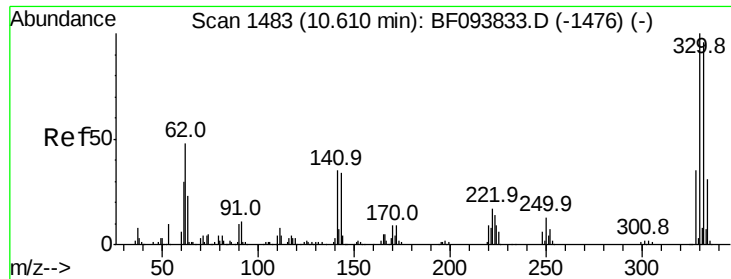


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

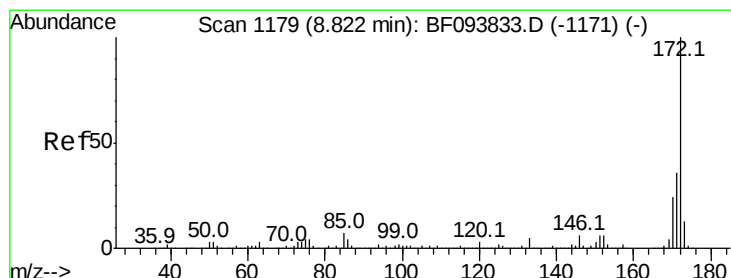
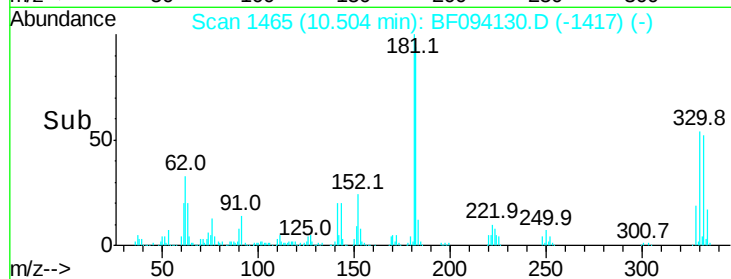
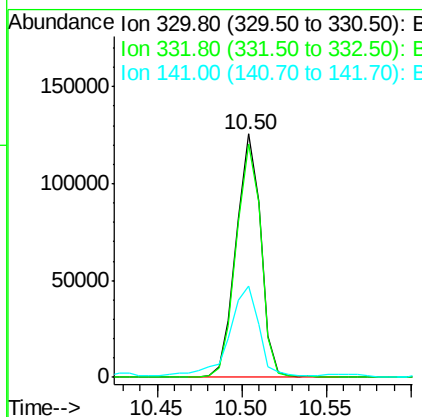
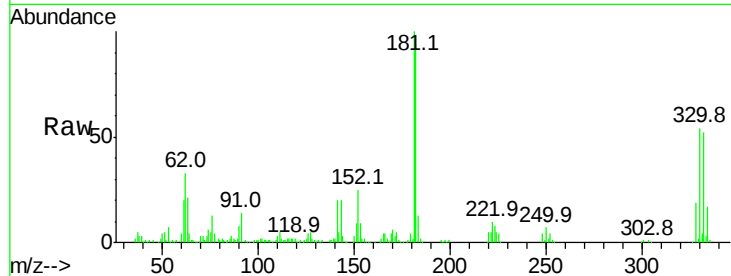




#41
 2,4,6-Tribromophenol
 Concen: 47.90 ng
 RT: 10.50 min Scan# 1465
 Delta R.T. -0.02 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

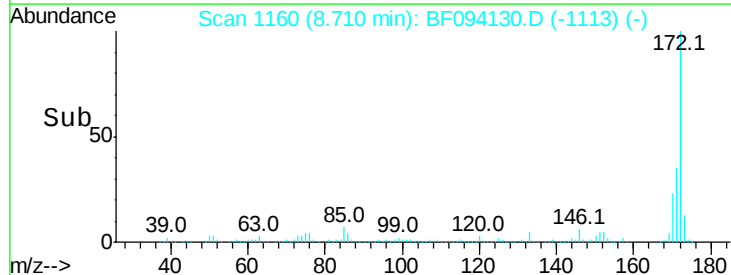
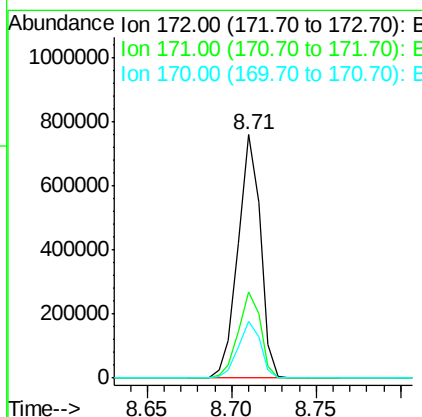
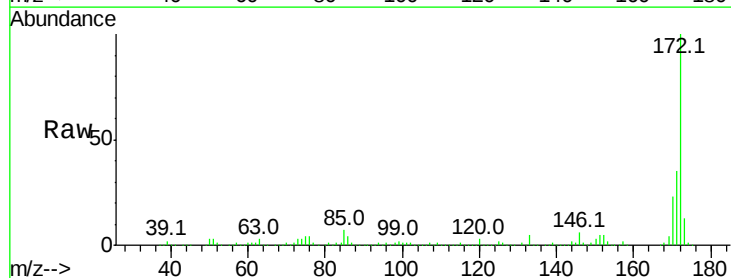
Instrument :
 BNA_F
 ClientSampled :
 TP-4

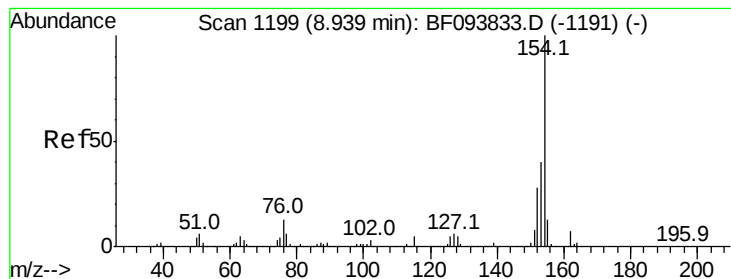
Tot Ion:330 Resp: 127223
 Ion Ratio Lower Upper
 330 100
 332 96.9 76.6 115.0
 141 45.5 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 31.82 ng
 RT: 8.71 min Scan# 1160
 Delta R.T. -0.02 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Tgt Ion:172 Resp: 701130
 Ion Ratio Lower Upper
 172 100
 171 35.2 29.6 44.4
 170 23.3 19.8 29.8





#45

1,1'-Biphenyl

Concen: 5.48 ng

RT: 8.83 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampleId :

TP-4

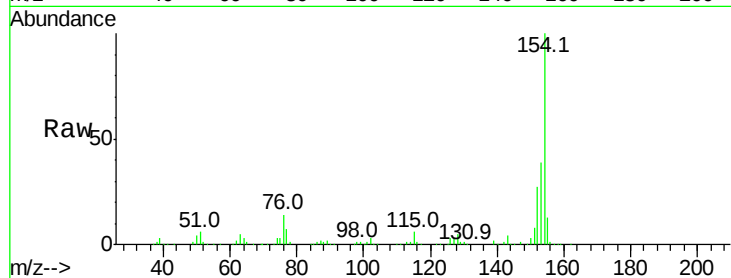
Tot Ion:154 Resp: 148511

Ion Ratio Lower Upper

154 100

153 39.4 21.2 61.2

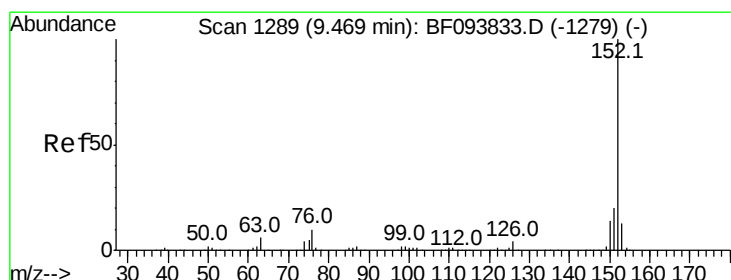
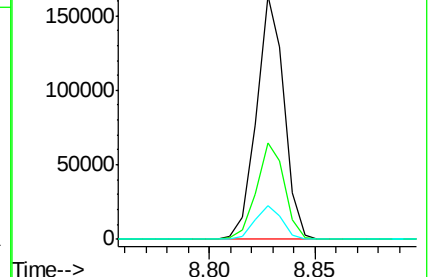
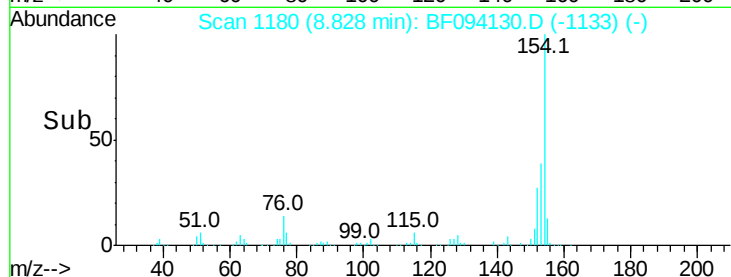
76 13.9 0.0 29.9



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: 3.22 ng

RT: 9.36 min Scan# 1270

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

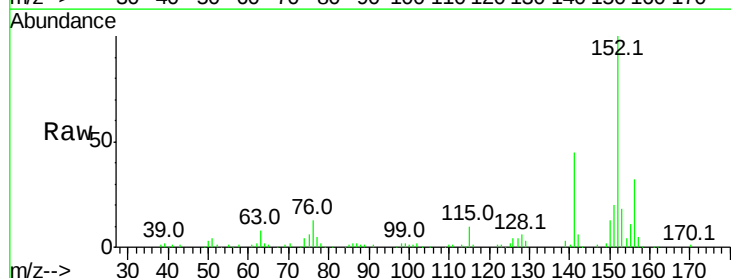
Tgt Ion:152 Resp: 113421

Ion Ratio Lower Upper

152 100

151 19.6 16.8 25.2

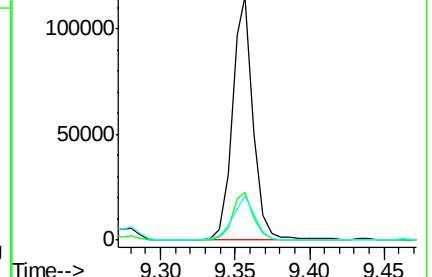
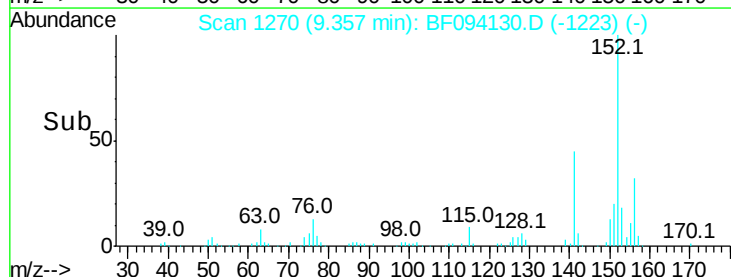
153 18.1 10.8 16.2#

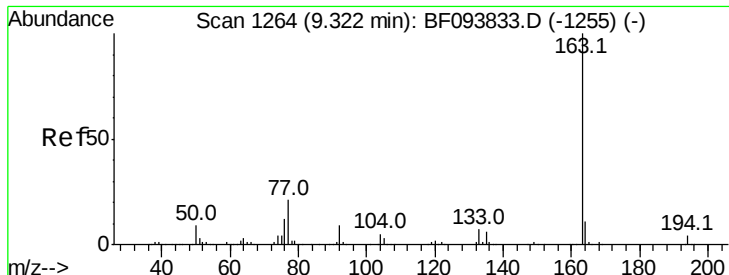


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

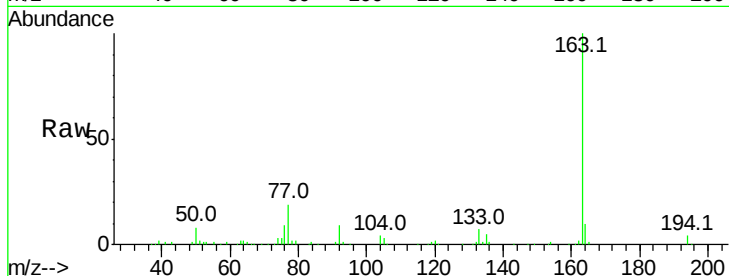




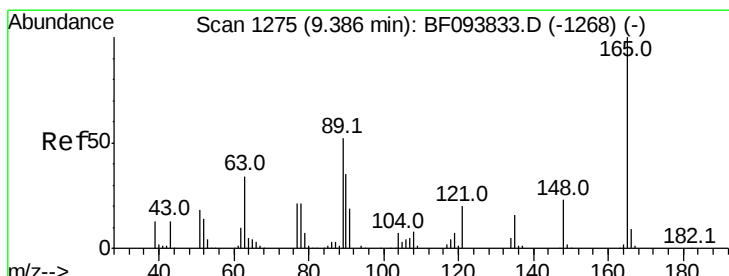
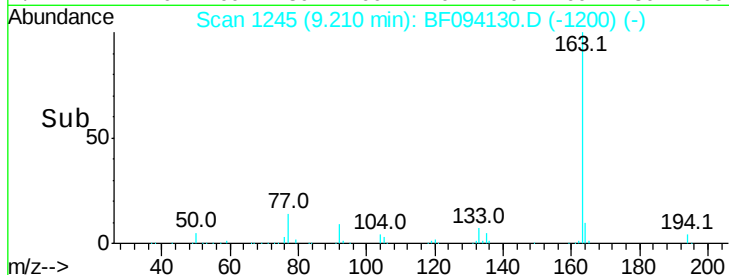
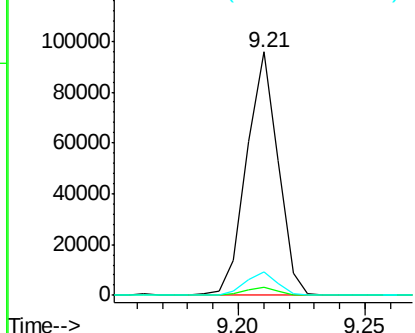
#49
Dimethylphthalate
Concen: 3.47 ng
RT: 9.21 min Scan# 1245
Delta R.T. -0.04 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion:163 Resp: 83019
Ion Ratio Lower Upper
163 100
194 3.5 2.6 4.0
164 9.8 8.4 12.6

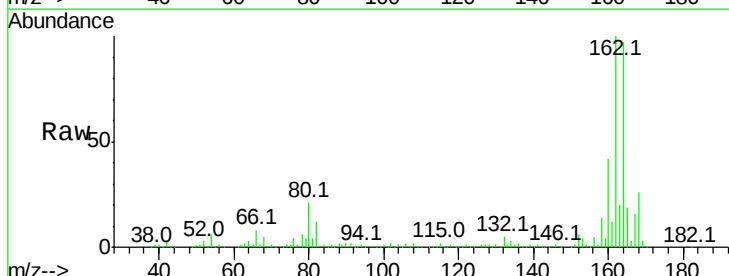


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

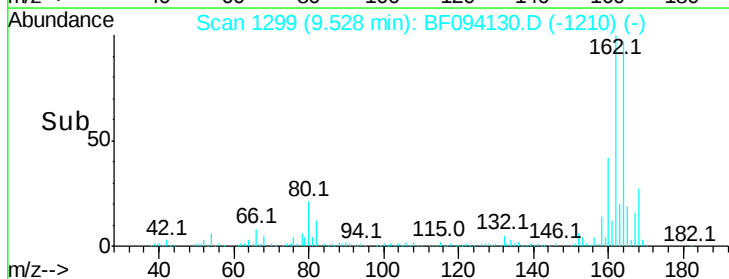
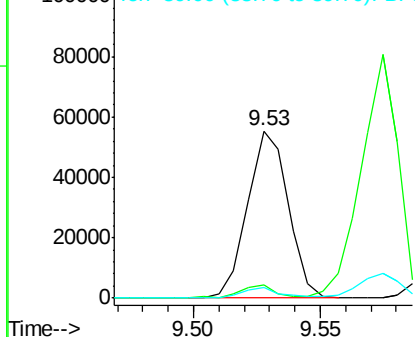


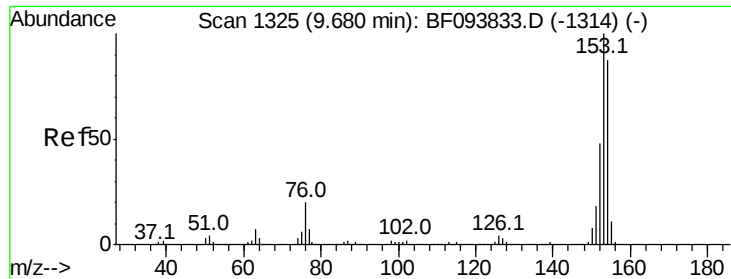
#50
2,6-Dinitrotoluene
Concen: 11.32 ng
RT: 9.53 min Scan# 1299
Delta R.T. 0.22 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Tgt Ion:165 Resp: 61988
Ion Ratio Lower Upper
165 100
63 8.0 34.3 51.5#
89 6.0 37.1 55.7#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 48.41 ng

RT: 9.57 min Scan# 1307

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampled :

TP-4

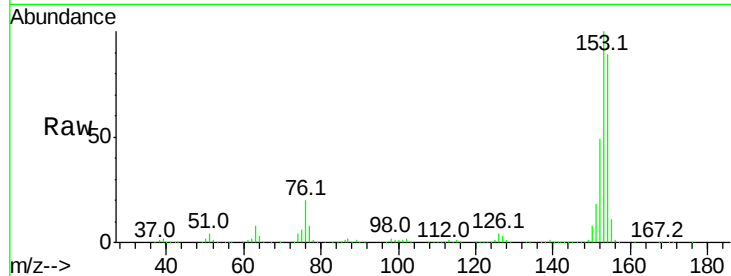
Tot Ion:154 Resp: 996269

Ion Ratio Lower Upper

154 100

153 112.5 90.5 135.7

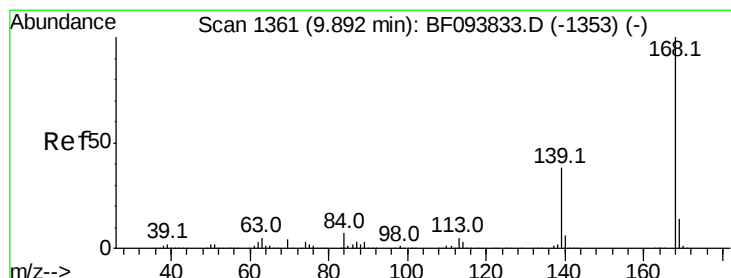
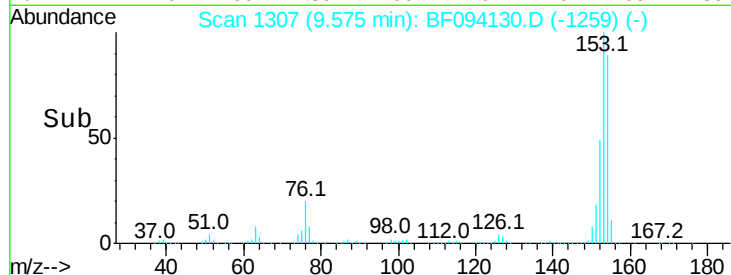
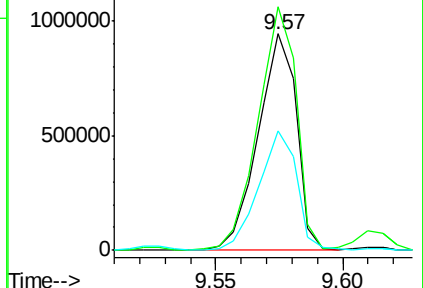
152 55.0 43.6 65.4



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: 33.20 ng

RT: 9.79 min Scan# 1343

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

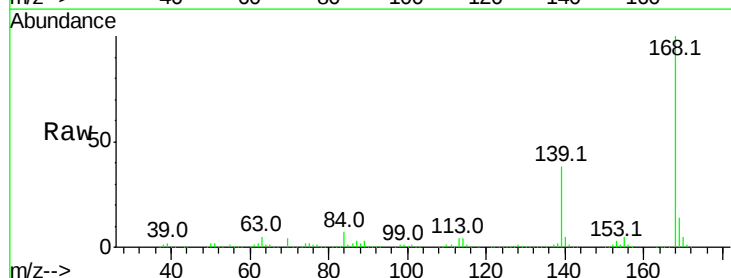
Tgt Ion:168 Resp: 930059

Ion Ratio Lower Upper

168 100

139 38.0 30.6 45.8

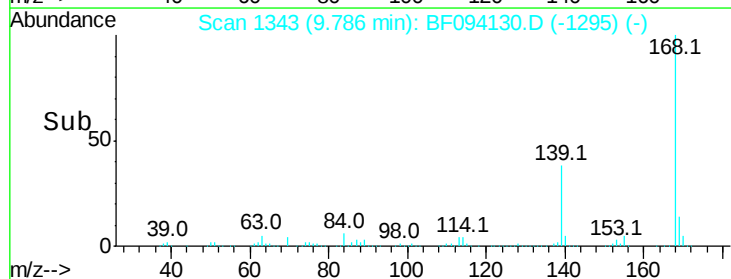
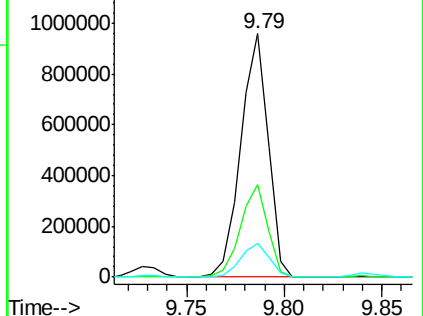
169 14.0 10.8 16.2

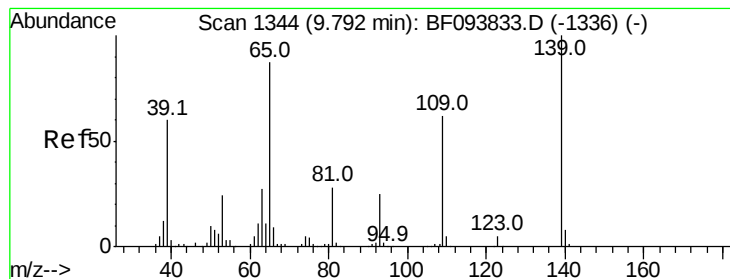


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 69.44 ng

RT: 9.79 min Scan# 1343

Delta R.T. 0.05 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampleId :

TP-4

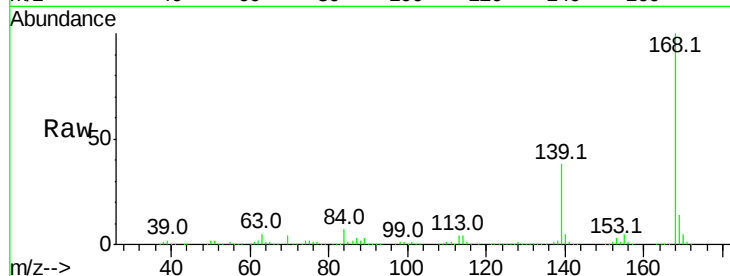
Tot Ion:139 Resp: 349772

Ion Ratio Lower Upper

139 100

109 1.0 34.1 74.1#

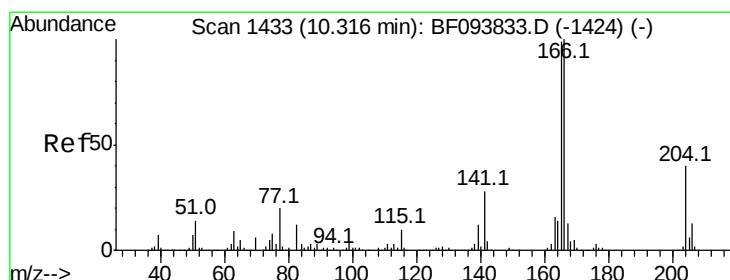
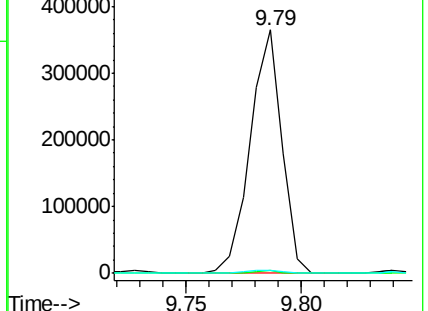
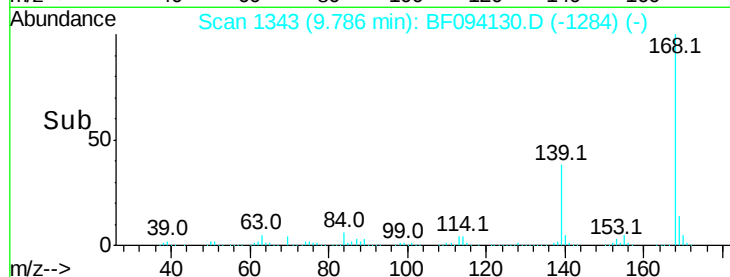
65 1.4 31.4 71.4#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): E



#57

Fluorene

Concen: 41.78 ng

RT: 10.21 min Scan# 1415

Delta R.T. -0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

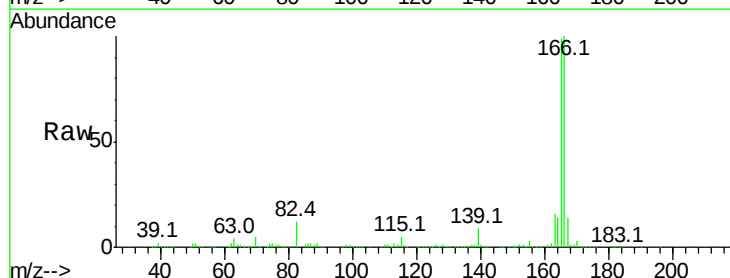
Tgt Ion:166 Resp: 970658

Ion Ratio Lower Upper

166 100

165 99.3 78.8 118.2

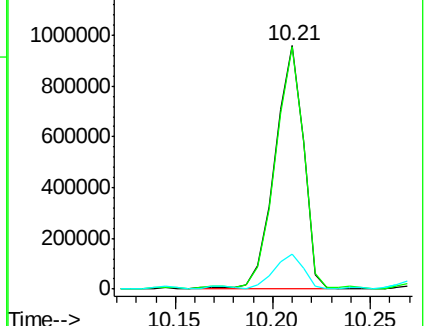
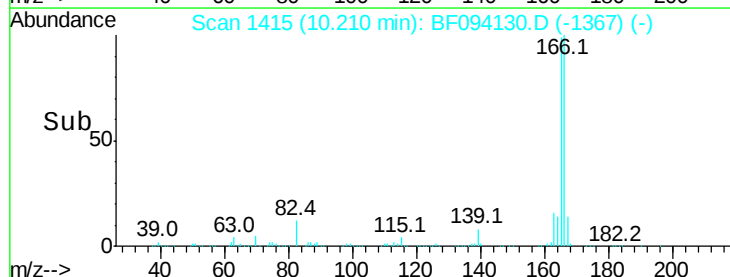
167 14.1 10.6 16.0

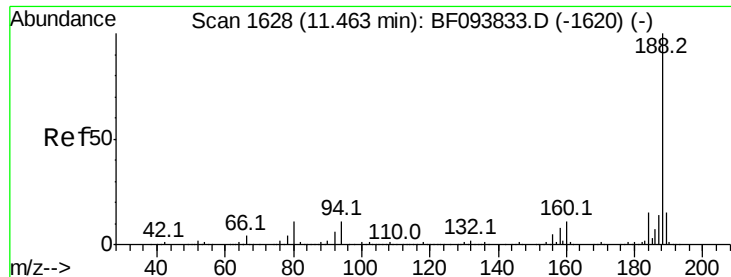


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

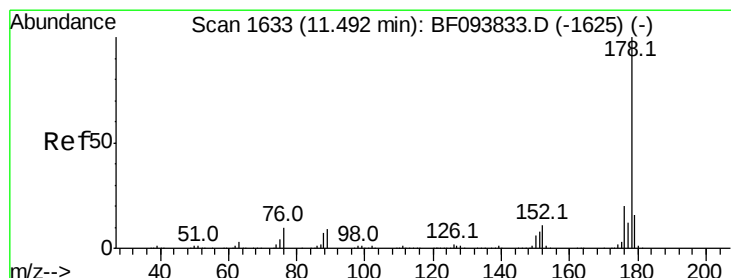
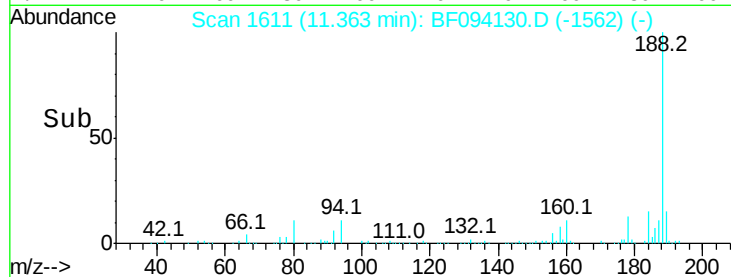
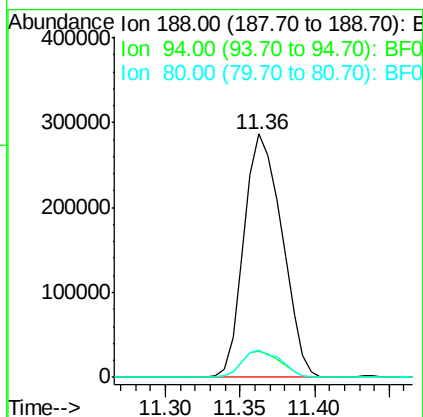
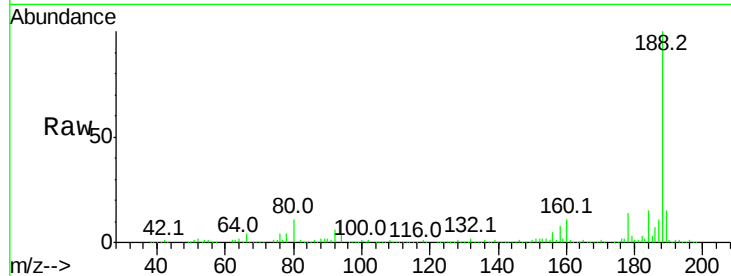




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 1611
 Delta R.T. -0.01 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

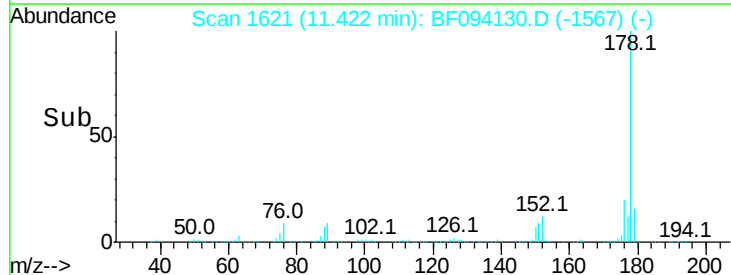
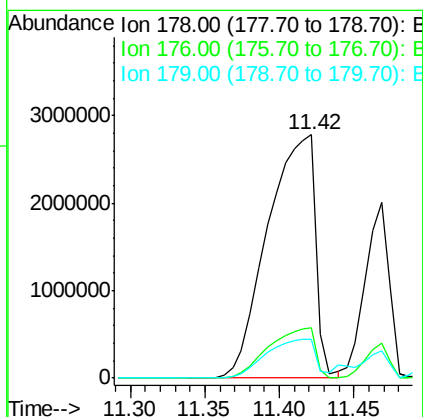
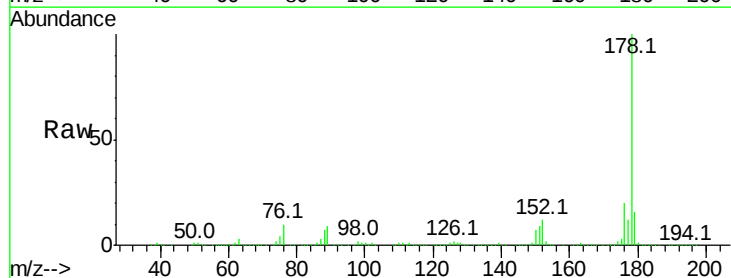
Instrument :
 BNA_F
 ClientSampleId :
 TP-4

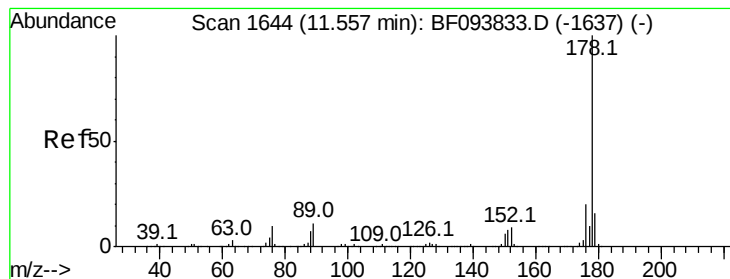
Tot Ion:188 Resp: 508338
 Ion Ratio Lower Upper
 188 100
 94 10.7 9.4 14.2
 80 11.2 10.2 15.2



#70
 Phenanthrene
 Concen: 219.67 ng
 RT: 11.42 min Scan# 1621
 Delta R.T. 0.02 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Tgt Ion:178 Resp: 6211822
 Ion Ratio Lower Upper
 178 100
 176 20.5 16.2 24.4
 179 16.1 12.6 19.0





#71

Anthracene

Concen: 74.97 ng

RT: 11.47 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampleId :

TP-4

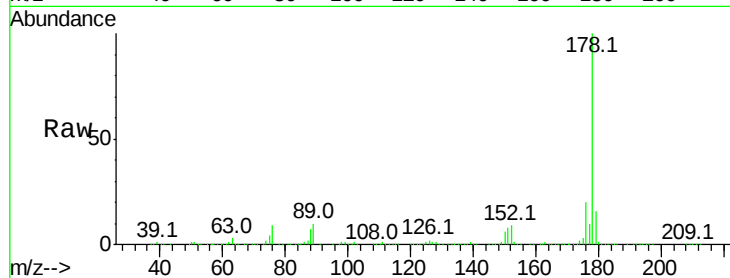
Tot Ion:178 Resp: 2182856

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

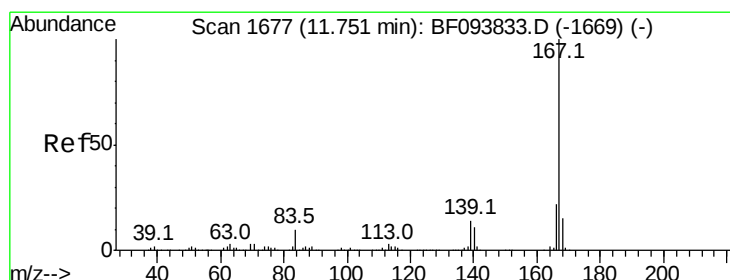
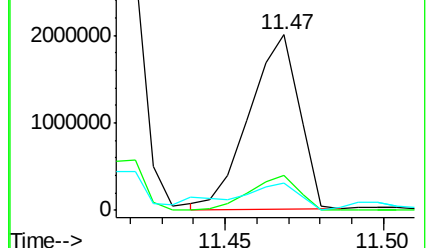
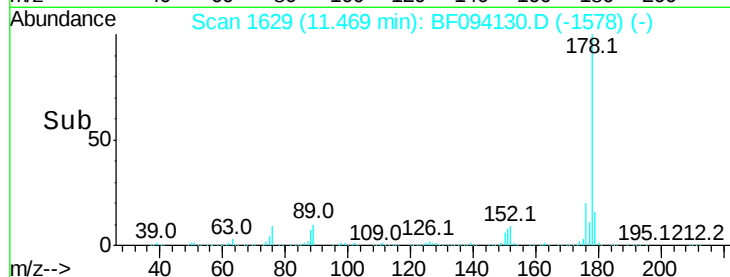
179 15.8 12.7 19.1



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: 26.01 ng

RT: 11.66 min Scan# 1661

Delta R.T. -0.01 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

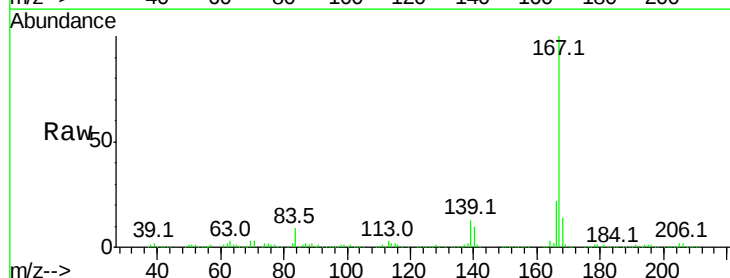
Tgt Ion:167 Resp: 776571

Ion Ratio Lower Upper

167 100

166 22.2 18.1 27.1

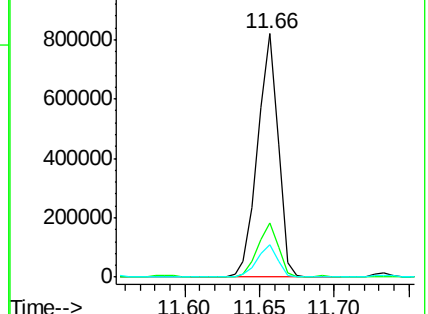
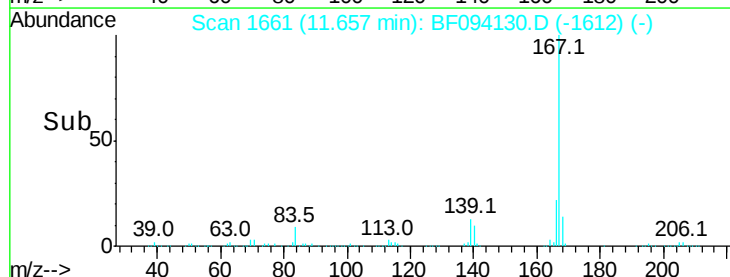
139 13.5 11.7 17.5

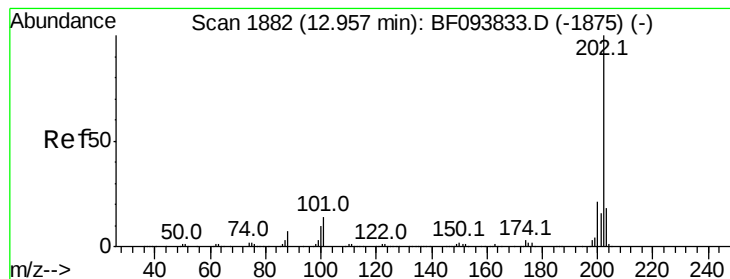


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 220.90 ng

RT: 12.89 min Scan# 1871

Delta R.T. 0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampleId :

TP-4

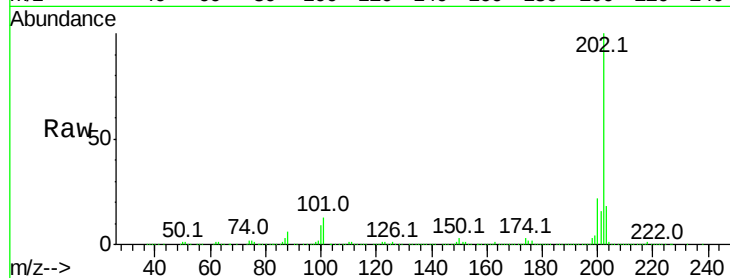
Tot Ion:202 Resp: 6396292

Ion Ratio Lower Upper

202 100

101 12.7 0.0 33.2

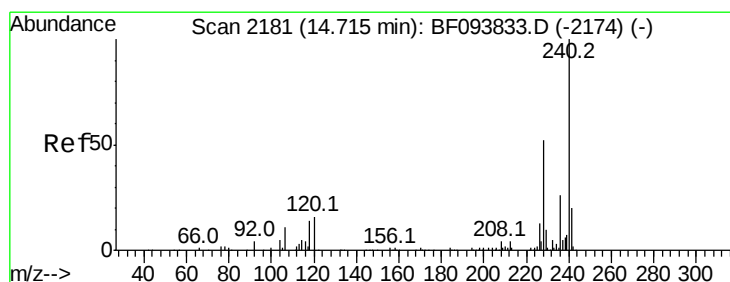
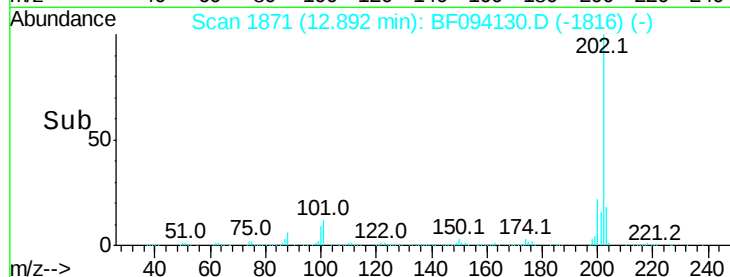
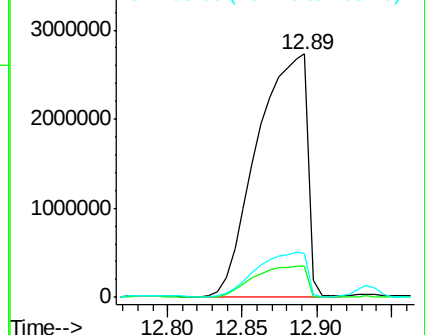
203 18.3 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.63 min Scan# 2167

Delta R.T. 0.01 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

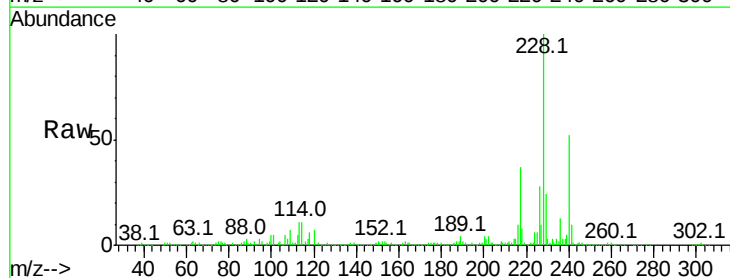
Tgt Ion:240 Resp: 270735

Ion Ratio Lower Upper

240 100

120 13.2 5.8 8.8#

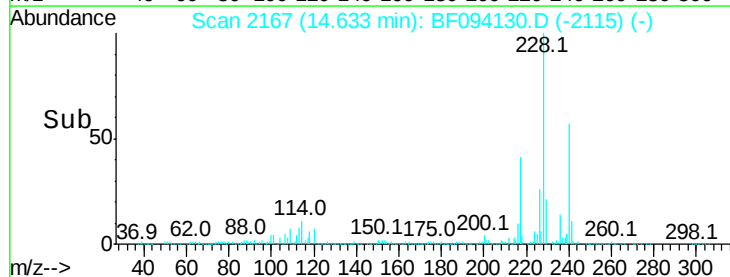
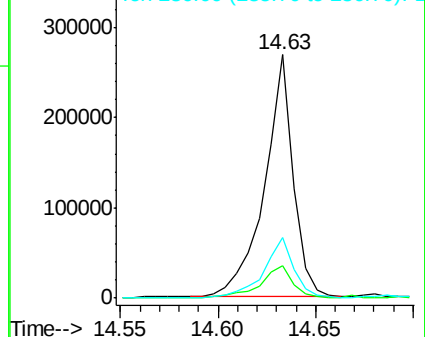
236 24.9 20.5 30.7

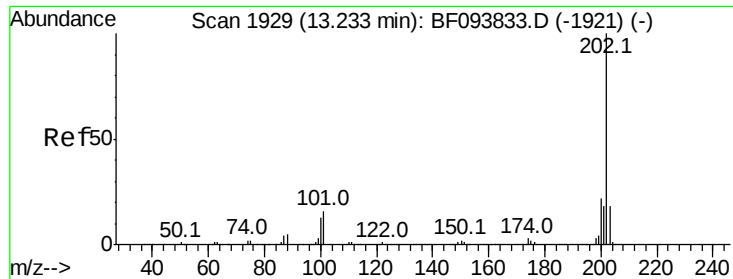


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

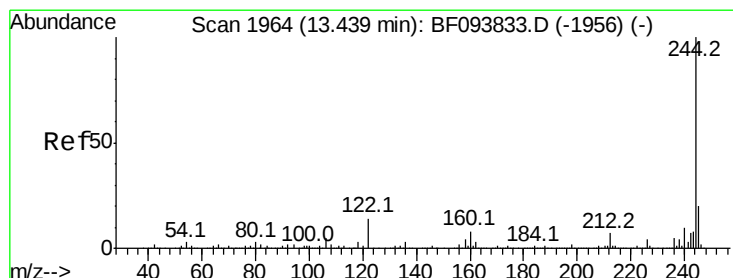
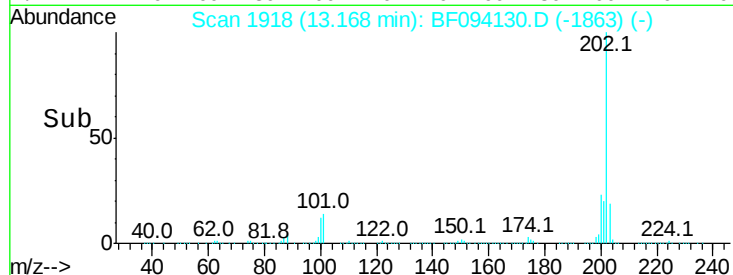
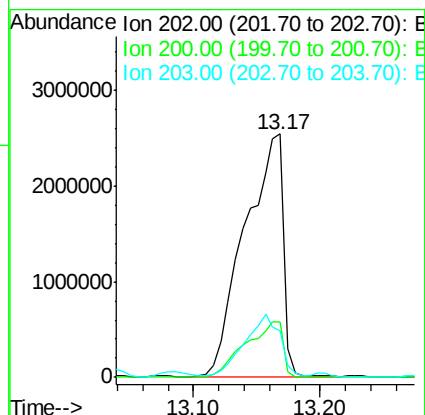
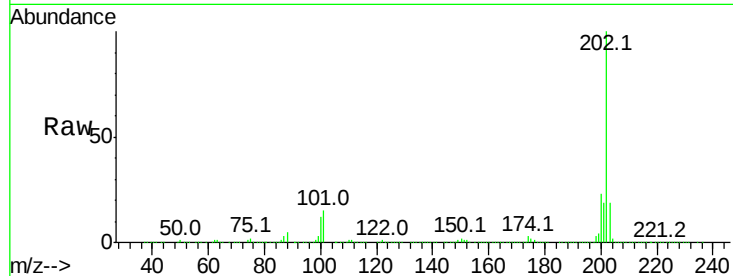




#77
Pvrene
Concen: 271.94 ng
RT: 13.17 min Scan# 1918
Delta R.T. 0.02 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

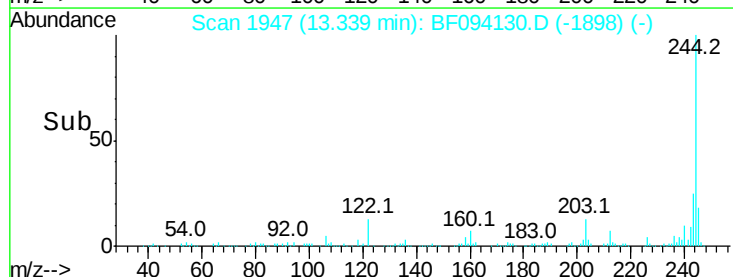
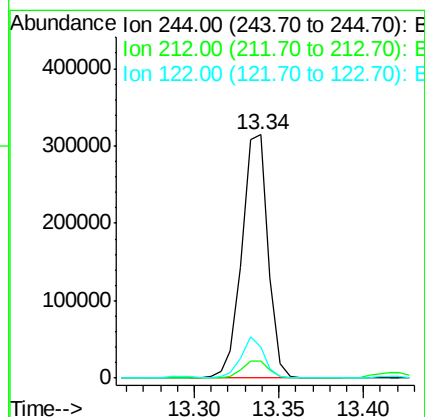
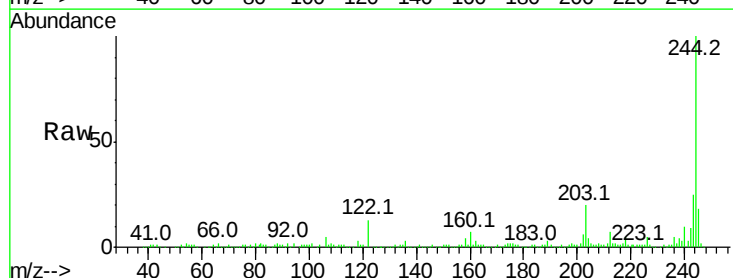
Instrument :
BNA_F
ClientSampleId :
TP-4

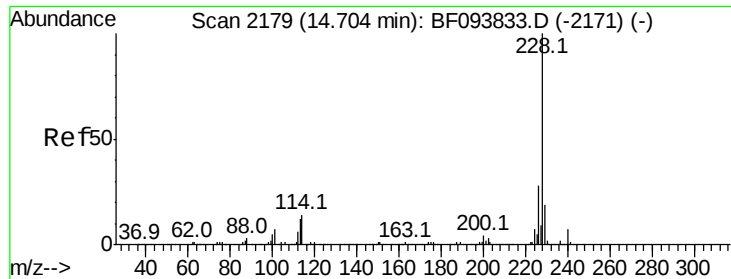
Tot Ion:202 Resp: 5343161
Ion Ratio Lower Upper
202 100
200 22.7 17.6 26.4
203 19.0 14.4 21.6



#78
Terphenyl-d14
Concen: 28.17 ng
RT: 13.34 min Scan# 1947
Delta R.T. -0.01 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Tgt Ion:244 Resp: 340283
Ion Ratio Lower Upper
244 100
212 7.2 6.0 9.0
122 12.7 10.3 15.5





#80

Benzo(a)anthracene

Concen: 190.86 ng

RT: 14.62 min Scan# 2165

Delta R.T. 0.01 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampleId :

TP-4

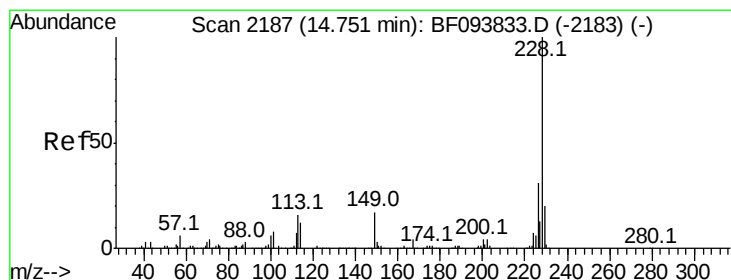
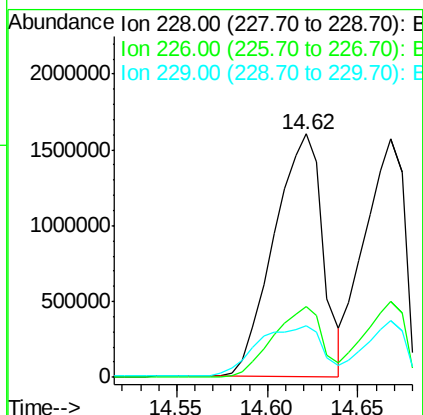
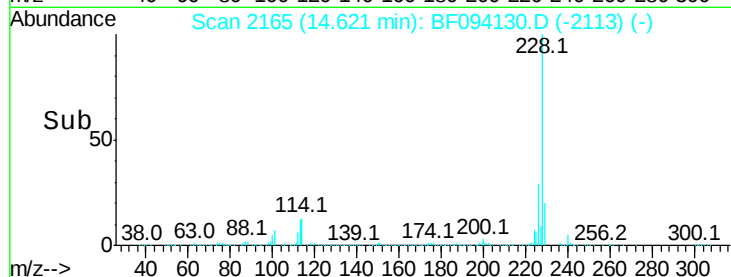
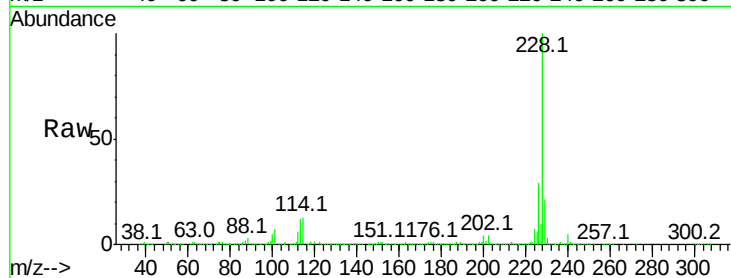
Tot Ion:228 Resp: 3013169

Ion Ratio Lower Upper

228 100

226 28.9 22.6 33.8

229 21.2 16.3 24.5



#82

Chrysene

Concen: 205.67 ng

RT: 14.62 min Scan# 2165

Delta R.T. -0.04 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

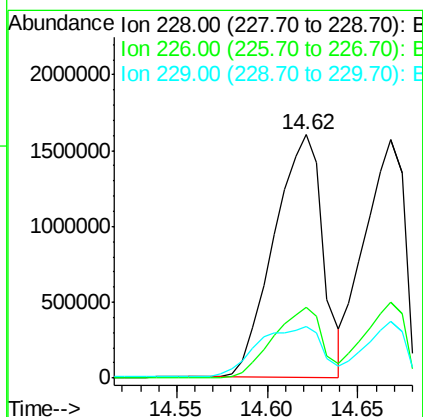
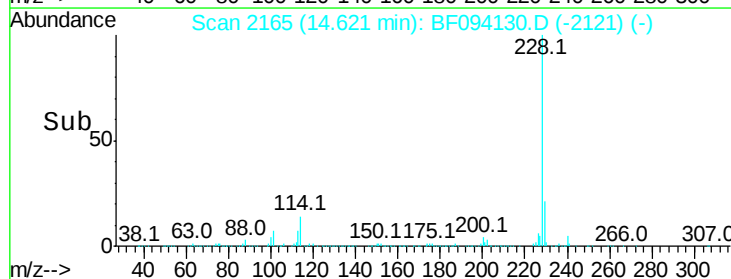
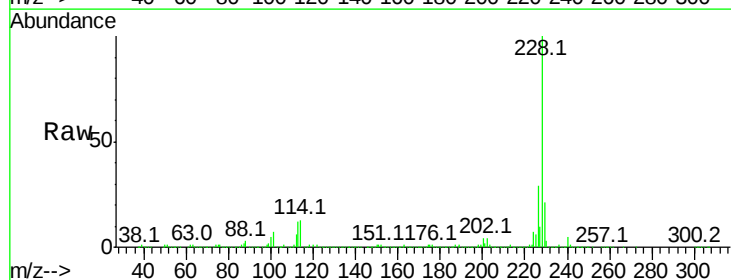
Tgt Ion:228 Resp: 3013169

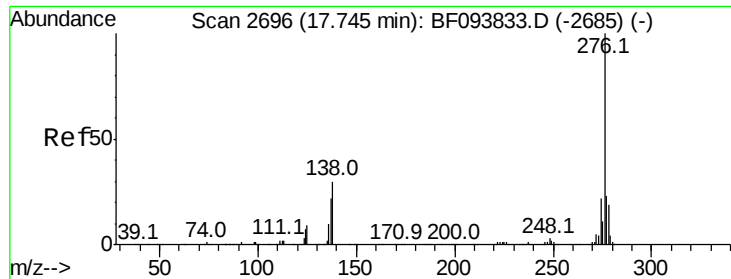
Ion Ratio Lower Upper

228 100

226 28.9 24.9 37.3

229 21.2 15.8 23.6

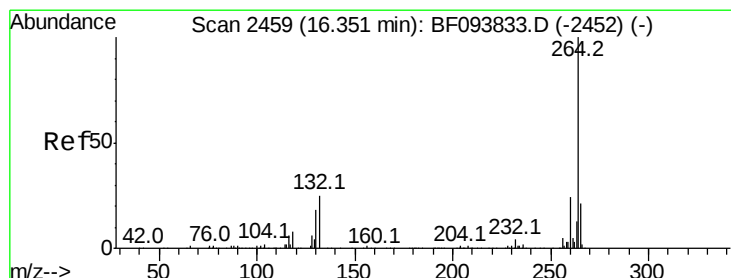
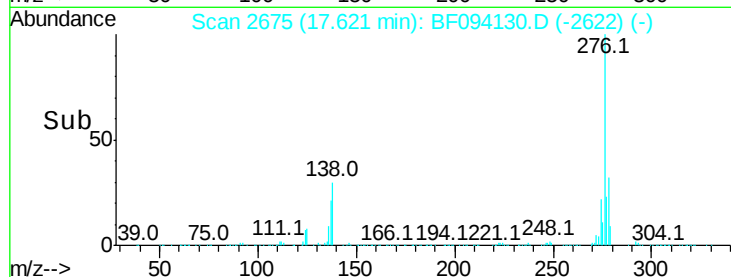
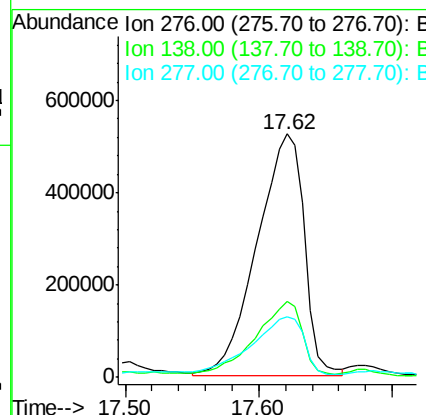
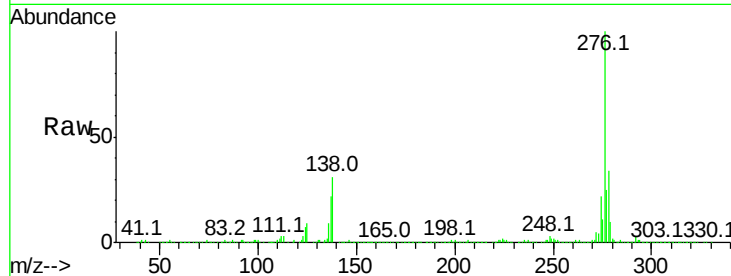




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 101.86 ng
 RT: 17.62 min Scan# 2675
 Delta R.T. 0.01 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

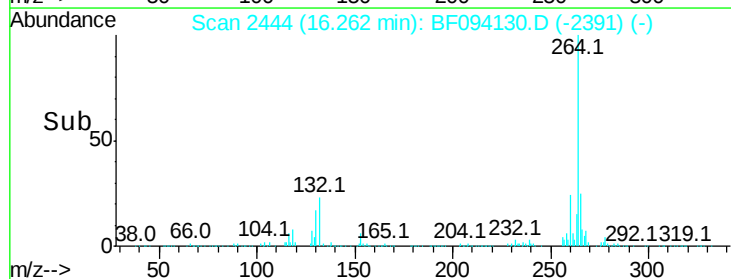
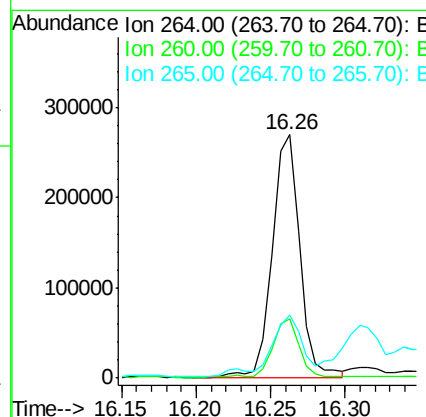
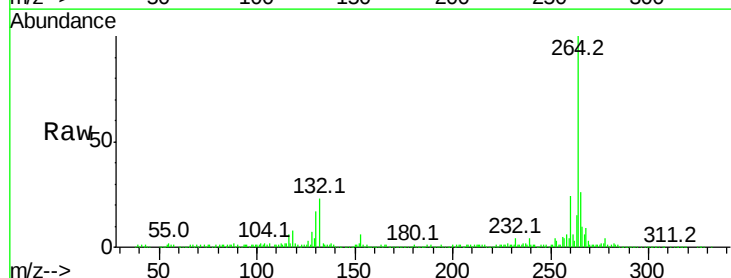
Instrument :
 BNA_F
 ClientSampleId :
 TP-4

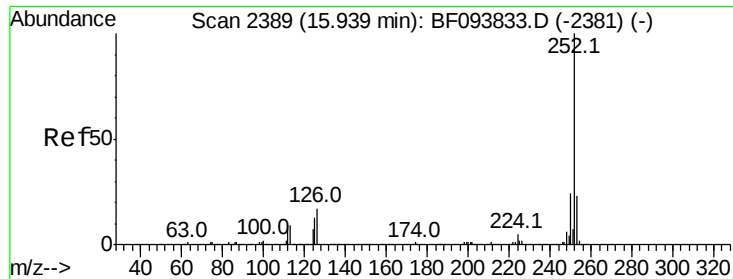
Tot Ion:276 Resp: 1292469
 Ion Ratio Lower Upper
 276 100
 138 29.0 27.8 41.6
 277 26.3 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.26 min Scan# 2444
 Delta R.T. 0.01 min
 Lab File: BF094130.D
 Acq: 3 Apr 2017 19:32

Tgt Ion:264 Resp: 342545
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.5 29.3
 265 25.9 17.2 25.8#

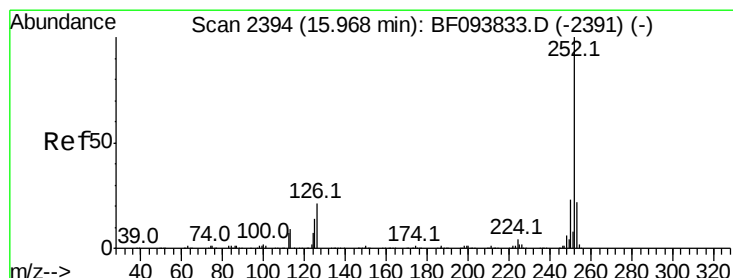
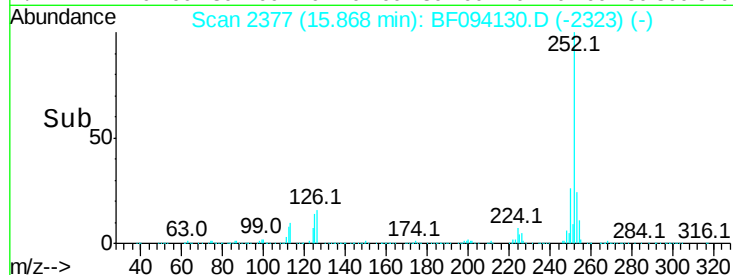
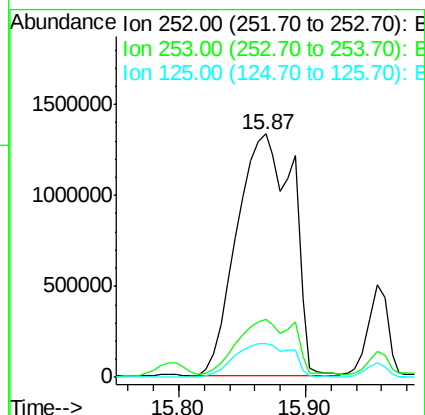
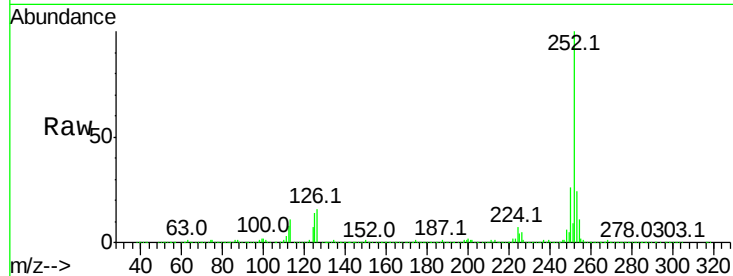




#87
Benzo(b)fluoranthene
Concen: 194.11 ng
RT: 15.87 min Scan# 2377
Delta R.T. 0.02 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

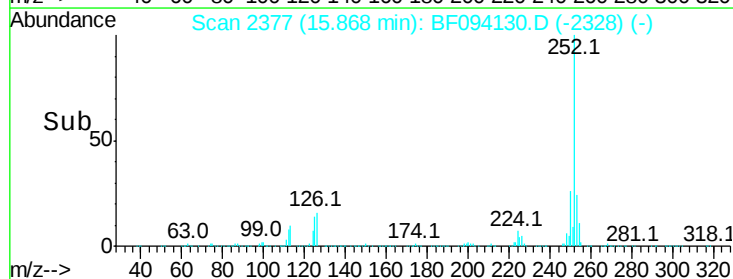
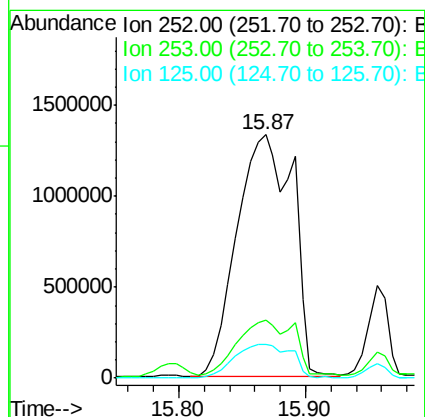
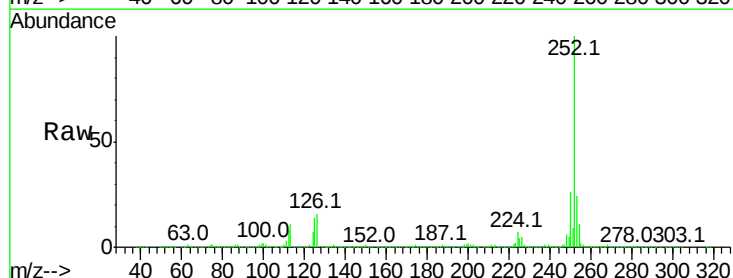
Instrument :
BNA_F
ClientSampleId :
TP-4

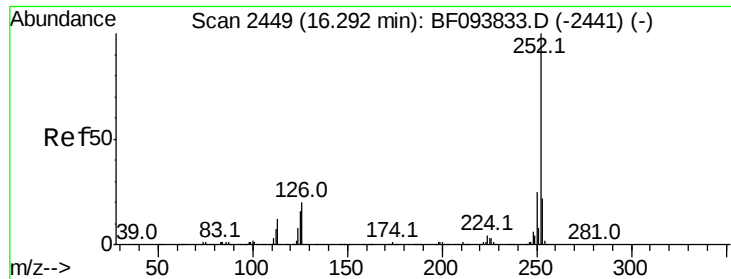
Tot Ion:252 Resp: 4075723
Ion Ratio Lower Upper
252 100
253 23.7 18.1 27.1
125 14.0 9.8 14.8



#88
Benzo(k)fluoranthene
Concen: 198.39 ng
RT: 15.87 min Scan# 2377
Delta R.T. -0.01 min
Lab File: BF094130.D
Acq: 3 Apr 2017 19:32

Tgt Ion:252 Resp: 4075723
Ion Ratio Lower Upper
252 100
253 23.7 18.4 27.6
125 14.0 13.1 19.7





#89

Benzo(a)pyrene

Concen: 116.70 ng

RT: 16.22 min Scan# 2436

Delta R.T. 0.02 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampleId :

TP-4

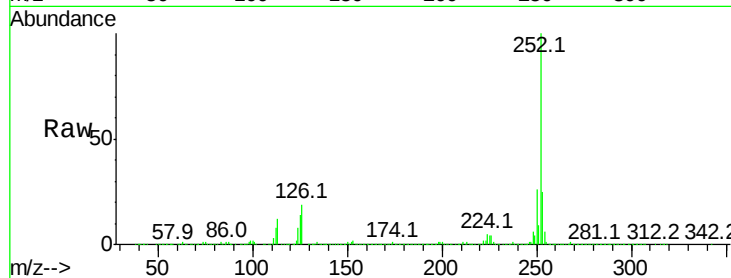
Tot Ion:252 Resp: 2256514

Ion Ratio Lower Upper

252 100

253 25.0 17.5 26.3

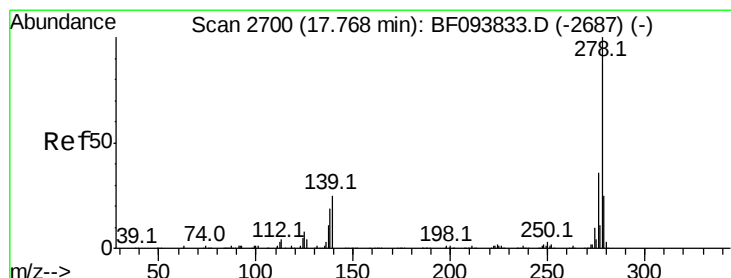
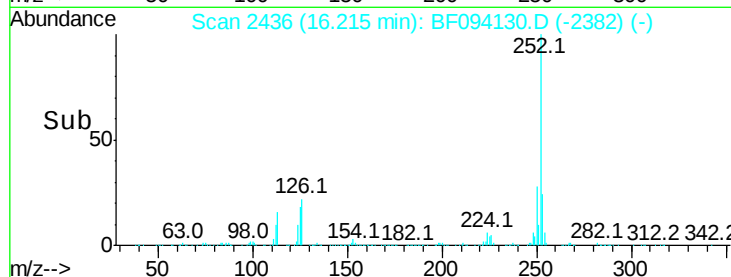
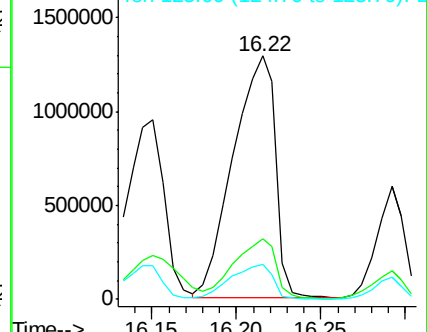
125 14.5 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 20.69 ng

RT: 17.63 min Scan# 2676

Delta R.T. -0.01 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

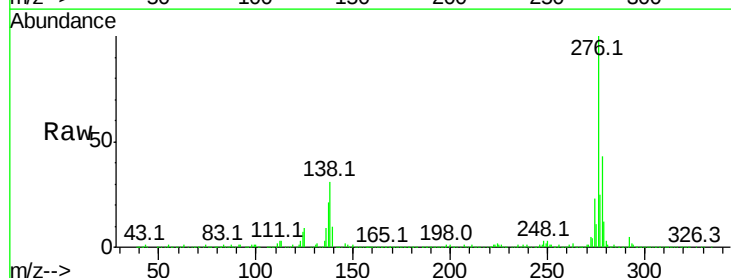
Tgt Ion:278 Resp: 338804

Ion Ratio Lower Upper

278 100

139 23.9 16.6 24.8

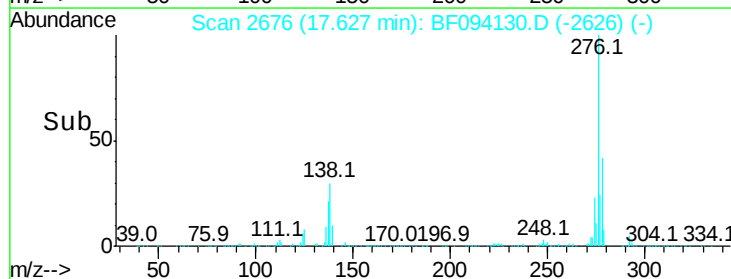
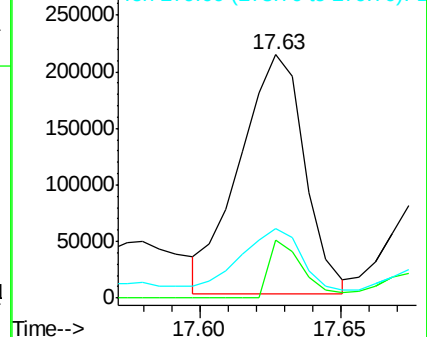
279 28.8 19.3 28.9

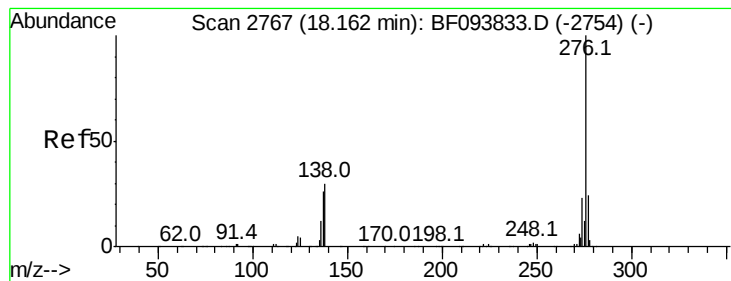


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 65.30 ng

RT: 18.02 min Scan# 2743

Delta R.T. 0.01 min

Lab File: BF094130.D

Acq: 3 Apr 2017 19:32

Instrument :

BNA_F

ClientSampleId :

TP-4

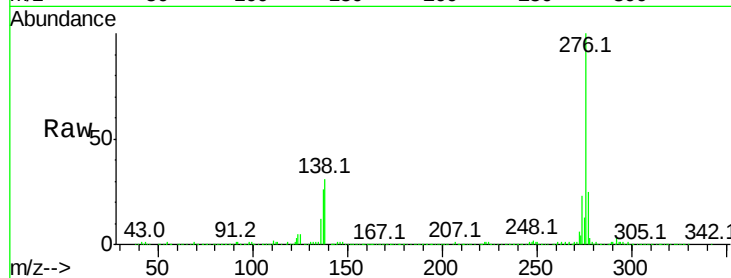
Tot Ion:276 Resp: 1077645

Ion Ratio Lower Upper

276 100

277 24.9 18.6 28.0

138 30.6 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

