

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062415\
 Data File : BF080153.D
 Acq On : 25 Jun 2015 3:35
 Operator : TP/IZ
 Sample : G2747-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-176(11-13)

Quant Time: Jun 25 12:02:01 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF061715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 25 00:52:28 2015
 Response via : Initial Calibration

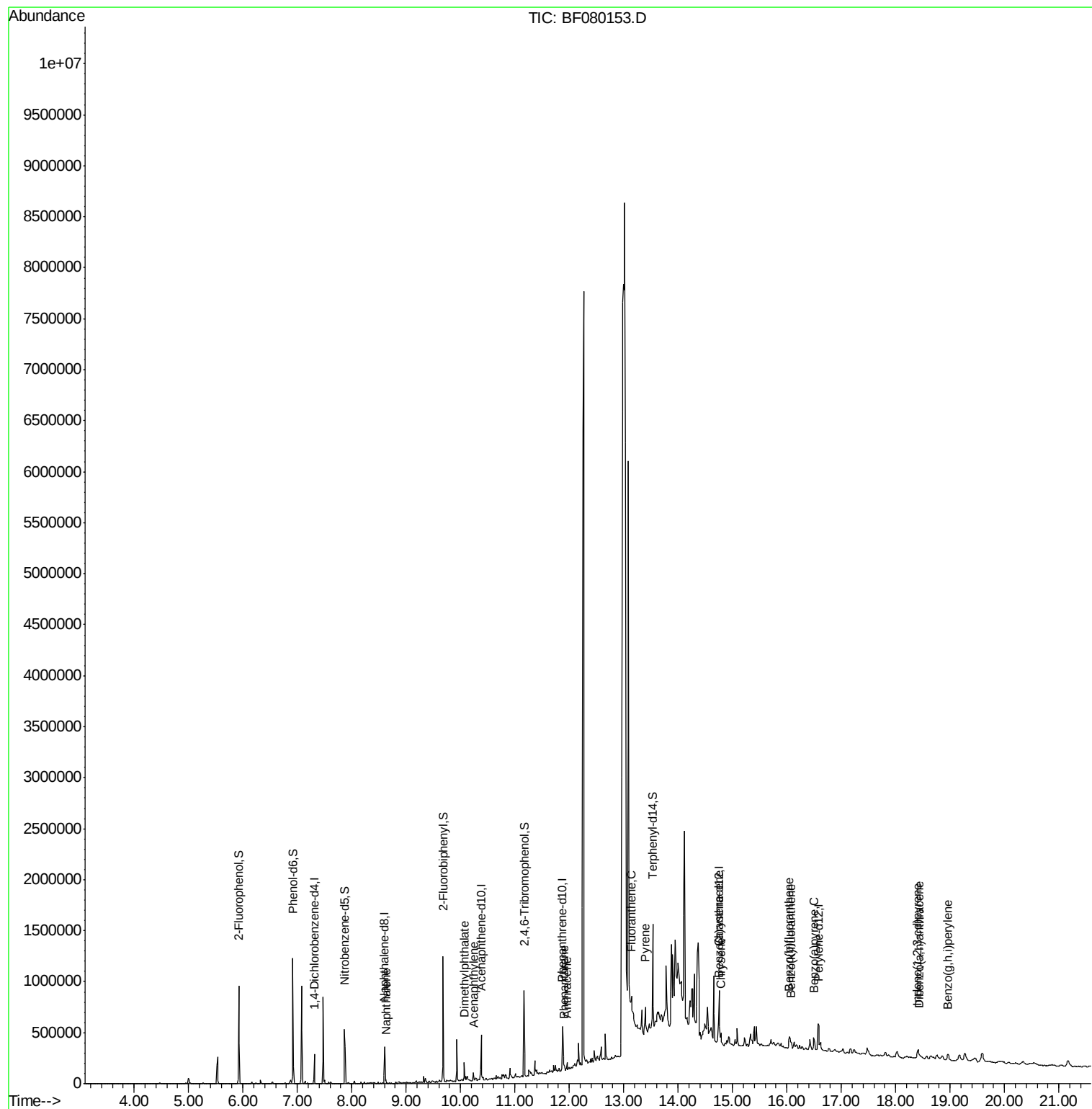
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.32	152	39829	20.00	ng	0.00
21) Naphthalene-d8	8.61	136	152418	20.00	ng	0.00
38) Acenaphthene-d10	10.38	164	79966	20.00	ng	0.00
63) Phenanthrene-d10	11.88	188	155796	20.00	ng	-0.01
75) Chrysene-d12	14.76	240	169701	20.00	ng	-0.17
86) Perylene-d12	16.59	264	169788	20.00	ng	-0.25
System Monitoring Compounds						
5) 2-Fluorophenol	5.92	112	275008	122.23	ng	0.00
7) Phenol-d6	6.92	99	360426	120.38	ng	0.00
23) Nitrobenzene-d5	7.86	82	203194	77.61	ng	-0.01
41) 2,4,6-Tribromophenol	11.17	330	87654	112.10	ng	0.00
44) 2-Fluorobiphenyl	9.68	172	338017	60.28	ng	0.00
78) Terphenyl-d14	13.53	244	345556	47.56	ng	-0.08
Target Compounds						Qvalue
31) Naphthalene	8.63	128	20918	2.62	ng	99
48) Acenaphthylene	10.24	152	44424	5.04	ng	95
49) Dimethylphthalate	10.07	163	67463	11.22	ng	# 97
70) Phenanthrene	11.90	178	24657m	2.61	ng	
71) Anthracene	11.96	178	29217	3.22	ng	97
74) Fluoranthene	13.14	202	48948	4.87	ng	92
77) Pyrene	13.40	202	75299	7.21	ng	95
80) Benzo(a)anthracene	14.75	228	64158	6.21	ng	# 82
82) Chrysene	14.79	228	53519	5.61	ng	# 90
85) Indeno(1,2,3-cd)pyrene	18.40	276	67392m	5.61	ng	
87) Benzo(b)fluoranthene	16.05	252	90490m	8.80	ng	
88) Benzo(k)fluoranthene	16.08	252	22397m	2.14	ng	
89) Benzo(a)pyrene	16.49	252	75139	7.70	ng	93
90) Dibenzo(a,h)anthracene	18.43	278	32624	3.26	ng	# 84
91) Benzo(g,h,i)perylene	18.96	276	67402	6.68	ng	# 79

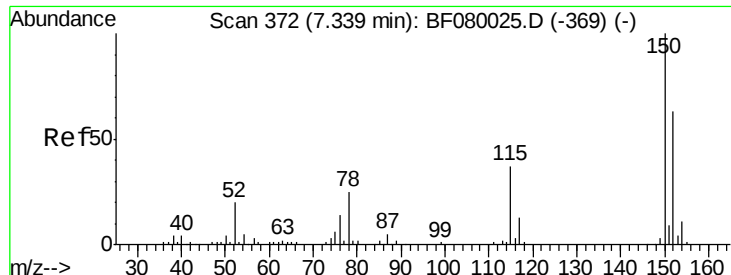
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.32 min Scan# 370

Delta R.T. 0.00 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

Instrument :

BNA_F

ClientSampleId :

SB-176(11-13)

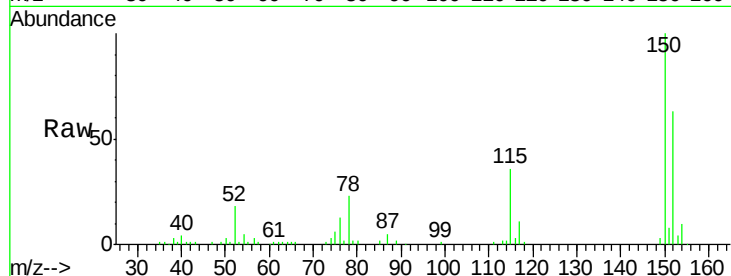
Tgt Ion:152 Resp: 39829

Ion Ratio Lower Upper

152 100

150 158.5 124.7 187.1

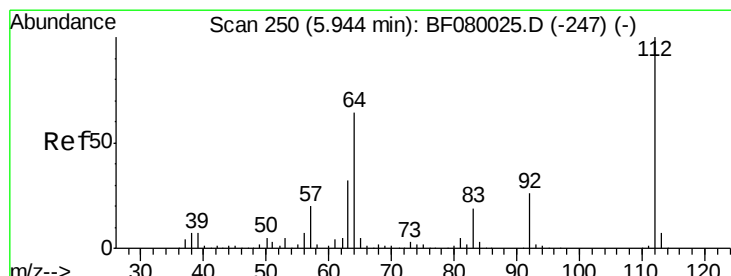
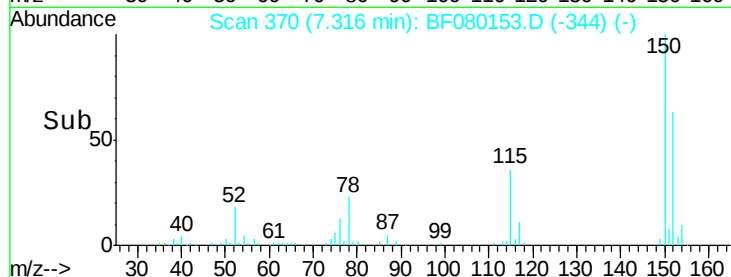
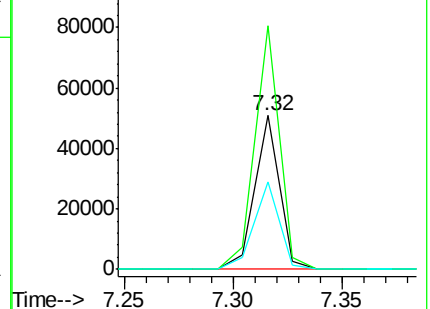
115 57.3 39.0 58.4



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: 122.23 ng

RT: 5.92 min Scan# 248

Delta R.T. -0.00 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

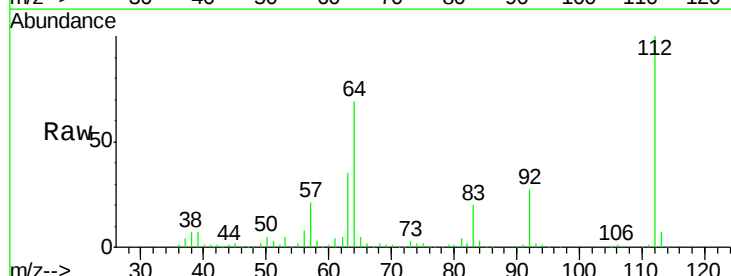
Tgt Ion:112 Resp: 275008

Ion Ratio Lower Upper

112 100

64 68.9 39.7 59.5#

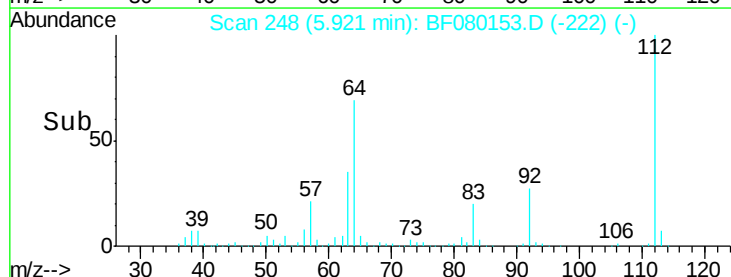
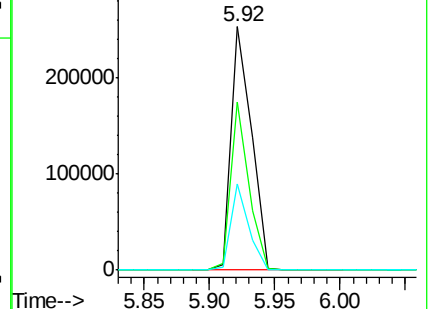
63 35.2 17.4 26.0#

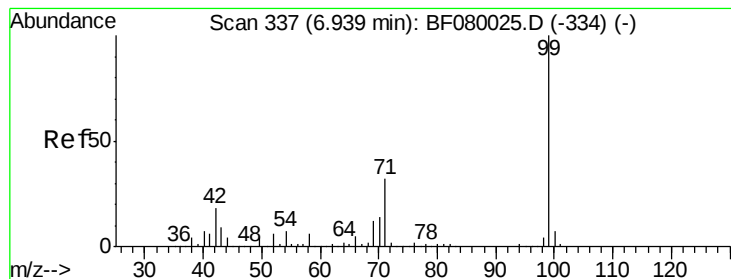


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 120.38 ng

RT: 6.92 min Scan# 335

Delta R.T. -0.00 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

Instrument :

BNA_F

ClientSampleId :

SB-176(11-13)

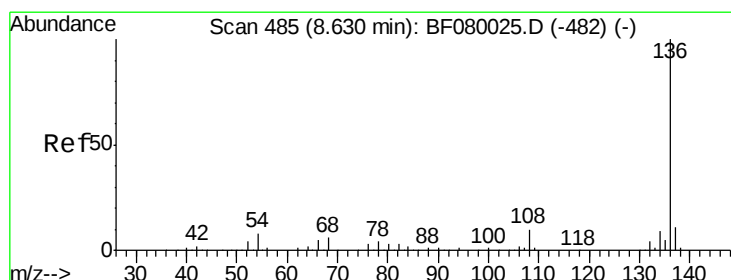
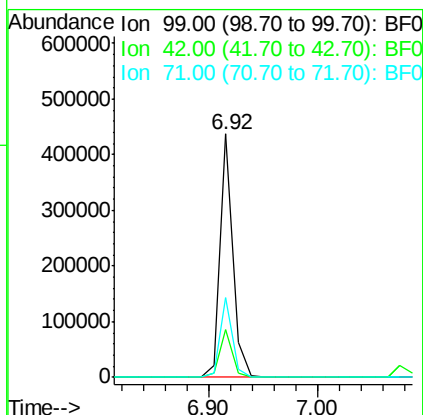
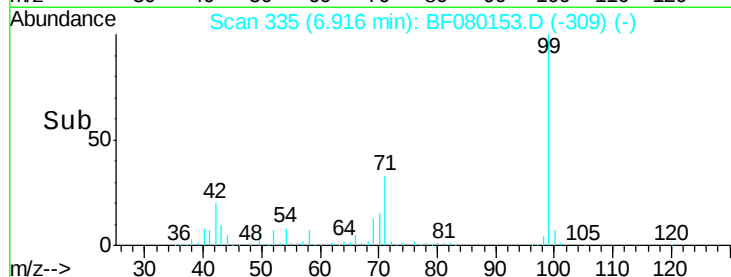
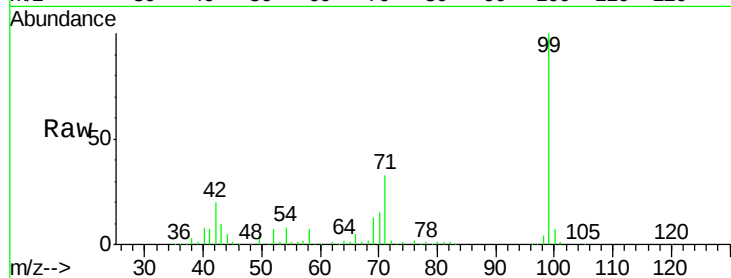
Tgt Ion: 99 Resp: 360426

Ion Ratio Lower Upper

99 100

42 19.8 13.7 20.5

71 32.9 14.2 21.2#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.61 min Scan# 483

Delta R.T. -0.00 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

Tgt Ion: 136 Resp: 152418

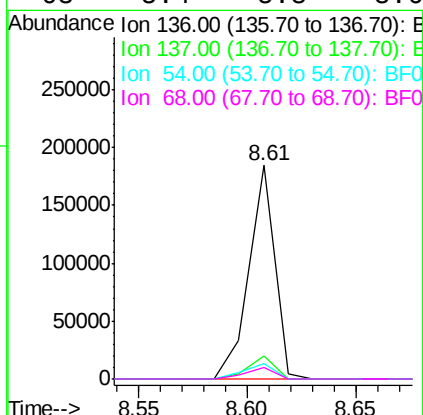
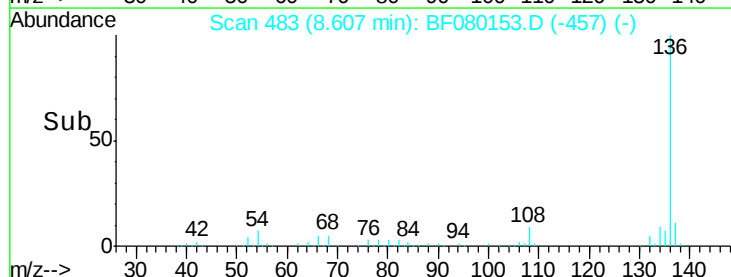
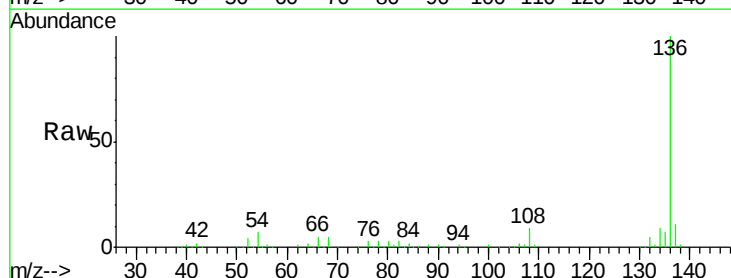
Ion Ratio Lower Upper

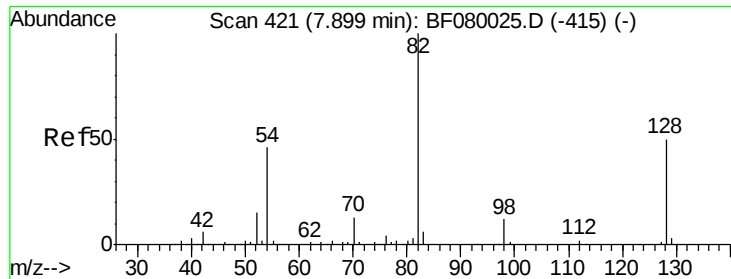
136 100

137 10.7 9.0 13.6

54 7.0 8.2 12.2#

68 5.4 5.8 8.6#





#23

Nitrobenzene-d5

Concen: 77.61 ng

RT: 7.86 min Scan# 418

Delta R.T. -0.01 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

Instrument :

BNA_F

ClientSampleId :

SB-176(11-13)

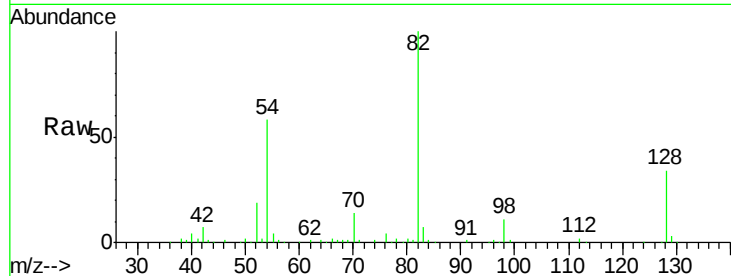
Tgt Ion: 82 Resp: 203194

Ion Ratio Lower Upper

82 100

128 34.5 51.0 76.6#

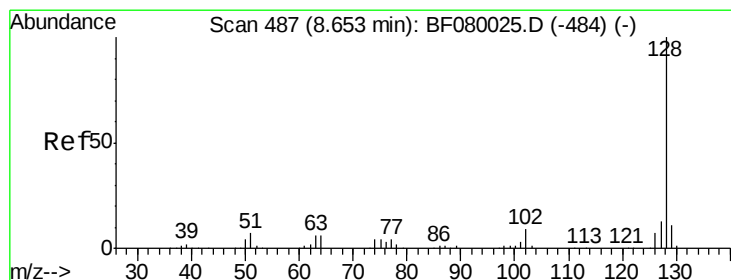
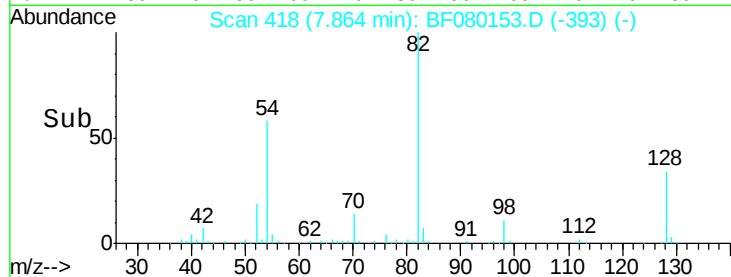
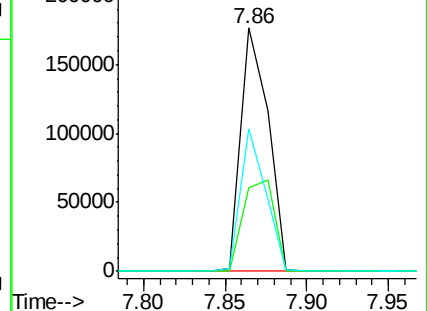
54 58.3 47.5 71.3



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: 2.62 ng

RT: 8.63 min Scan# 485

Delta R.T. 0.00 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

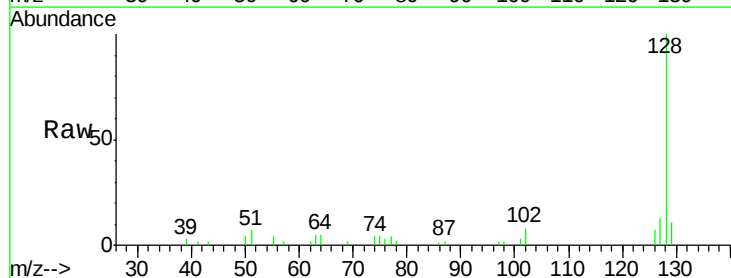
Tgt Ion: 128 Resp: 20918

Ion Ratio Lower Upper

128 100

129 10.6 8.4 12.6

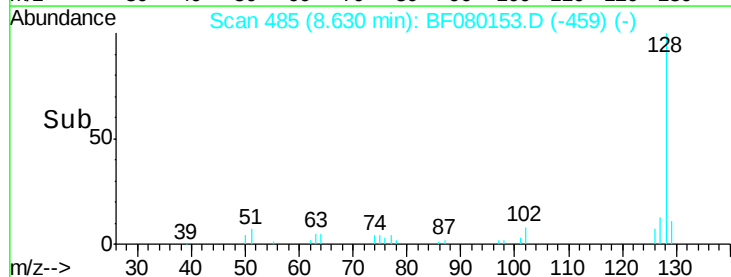
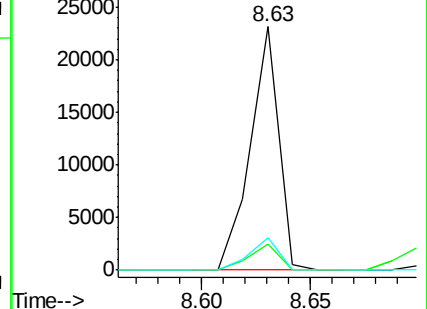
127 13.1 9.9 14.9

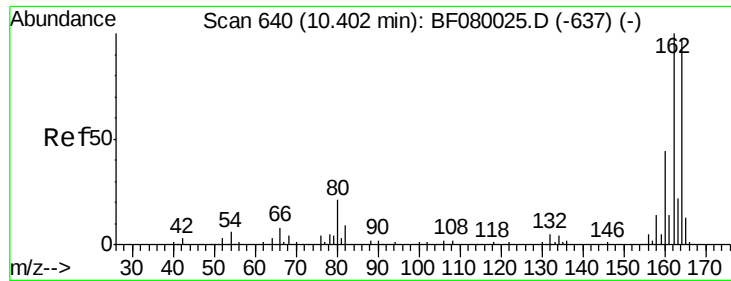


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

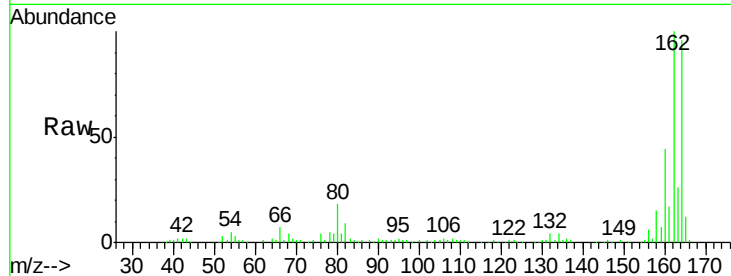




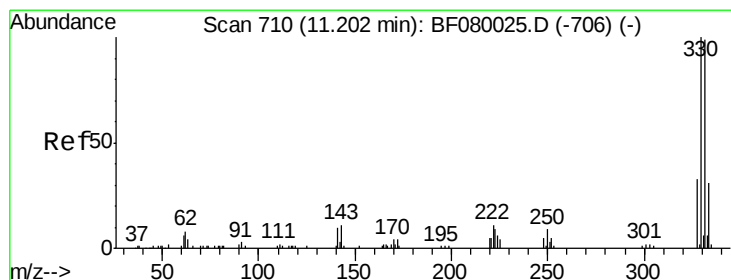
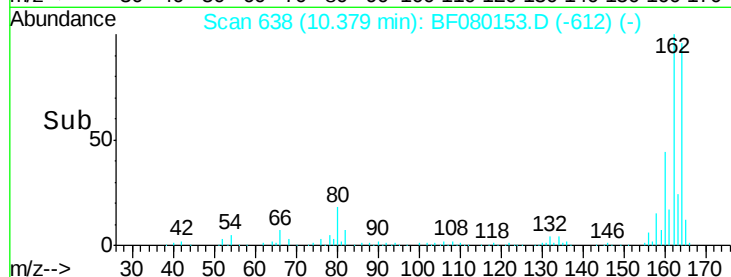
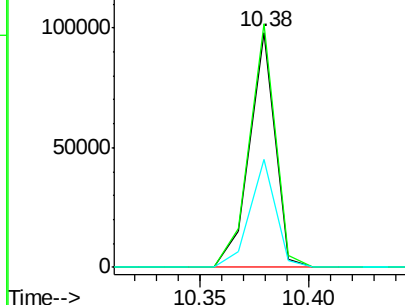
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.38 min Scan# 638
 Delta R.T. -0.00 min
 Lab File: BF080153.D
 Acq: 25 Jun 2015 3:35

Instrument :
 BNA_F
 ClientSampleId :
 SB-176(11-13)

Tgt Ion:164 Resp: 79966
 Ion Ratio Lower Upper
 164 100
 162 103.6 75.2 112.8
 160 46.0 31.5 47.3

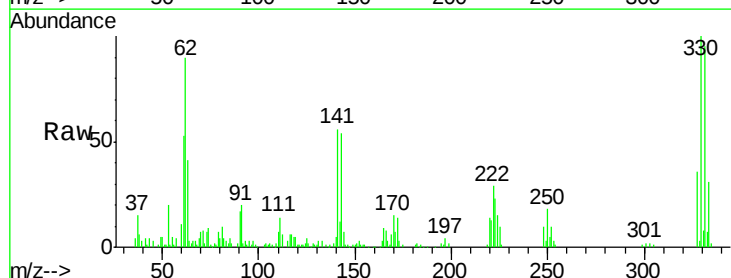


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

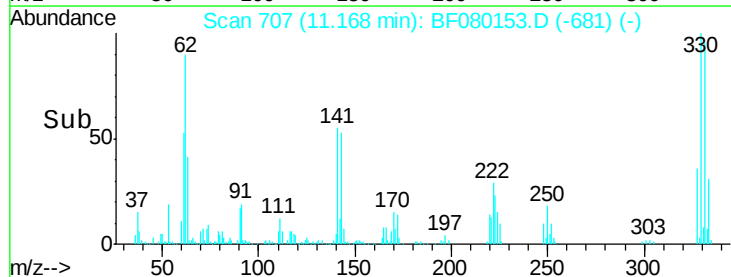
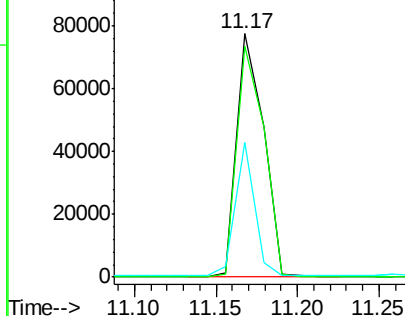


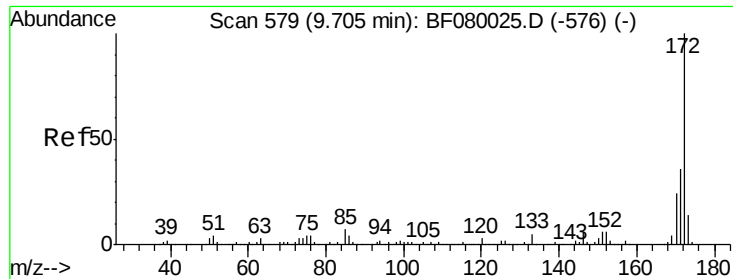
#41
 2,4,6-Tribromophenol
 Concen: 112.10 ng
 RT: 11.17 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: BF080153.D
 Acq: 25 Jun 2015 3:35

Tgt Ion:330 Resp: 87654
 Ion Ratio Lower Upper
 330 100
 332 97.0 76.6 114.8
 141 40.4 29.7 44.5



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

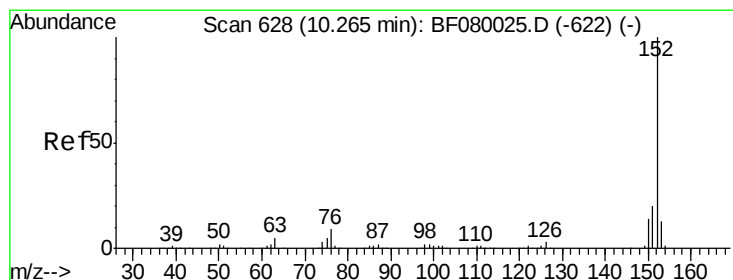
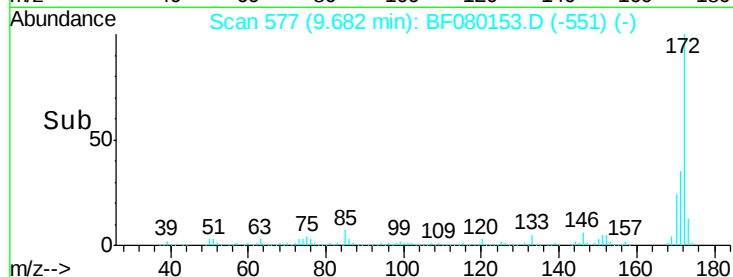
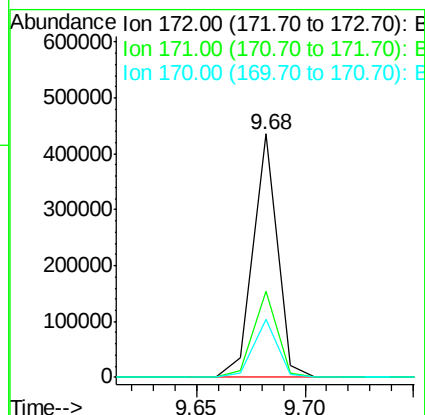
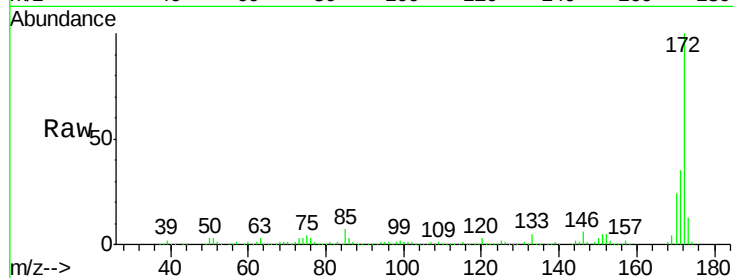




#44
2-Fluorobiphenyl
Concen: 60.28 ng
RT: 9.68 min Scan# 577
Delta R.T. 0.00 min
Lab File: BF080153.D
Acq: 25 Jun 2015 3:35

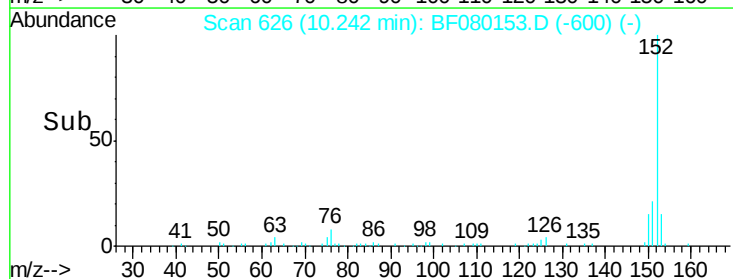
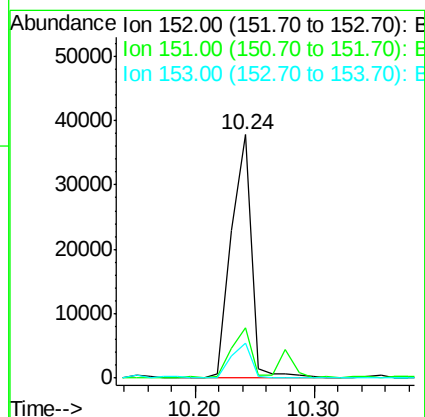
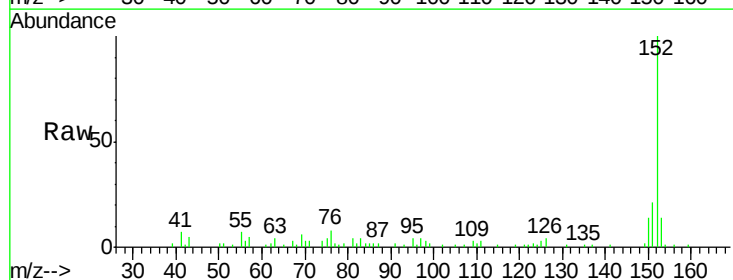
Instrument :
BNA_F
ClientSampleId :
SB-176(11-13)

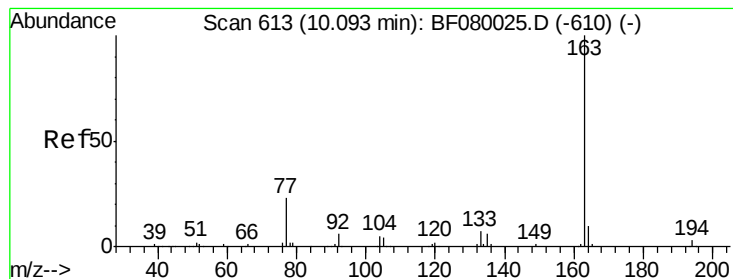
Tgt Ion:172 Resp: 338017
Ion Ratio Lower Upper
172 100
171 35.5 26.1 39.1
170 24.1 17.4 26.2



#48
Acenaphthylene
Concen: 5.04 ng
RT: 10.24 min Scan# 626
Delta R.T. 0.00 min
Lab File: BF080153.D
Acq: 25 Jun 2015 3:35

Tgt Ion:152 Resp: 44424
Ion Ratio Lower Upper
152 100
151 20.7 14.6 22.0
153 14.4 10.3 15.5





#49

Dimethylphthalate

Concen: 11.22 ng

RT: 10.07 min Scan# 611

Delta R.T. -0.00 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

Instrument :

BNA_F

ClientSampleId :

SB-176(11-13)

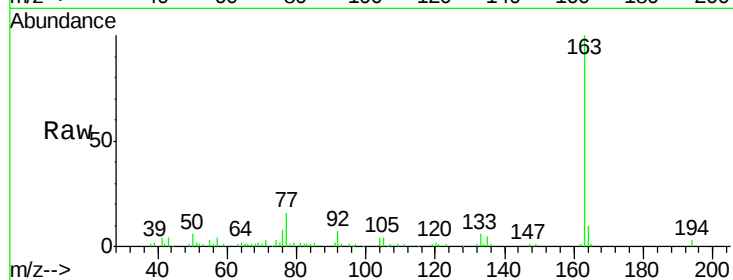
Tgt Ion:163 Resp: 67463

Ion Ratio Lower Upper

163 100

194 3.4 4.4 6.6#

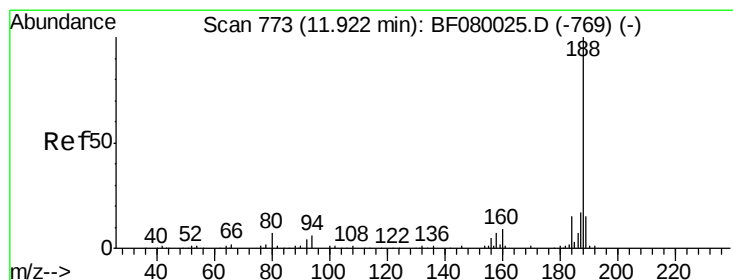
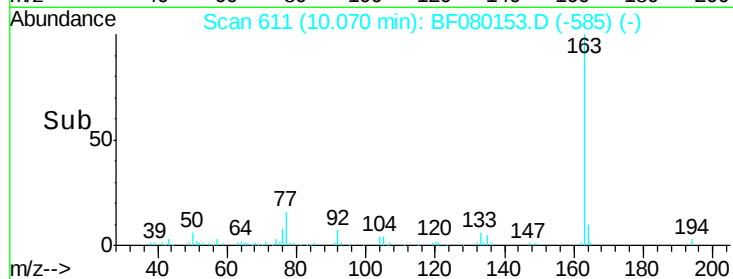
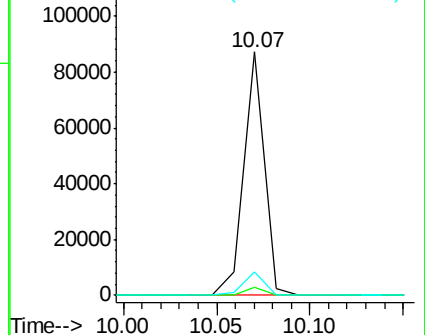
164 9.8 8.3 12.5



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.88 min Scan# 769

Delta R.T. -0.01 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

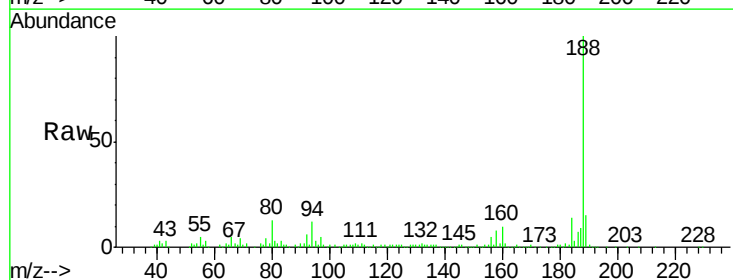
Tgt Ion:188 Resp: 155796

Ion Ratio Lower Upper

188 100

94 11.8 11.1 16.7

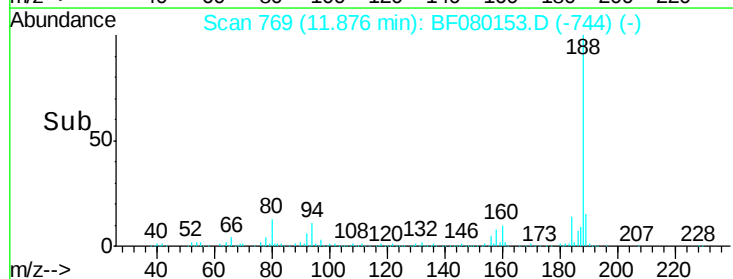
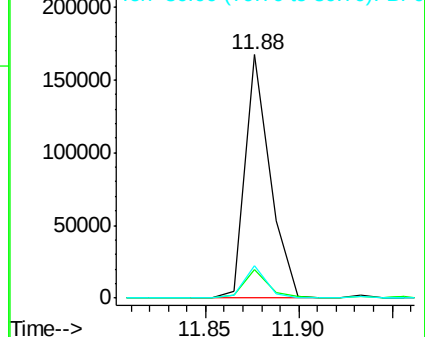
80 13.4 11.0 16.4

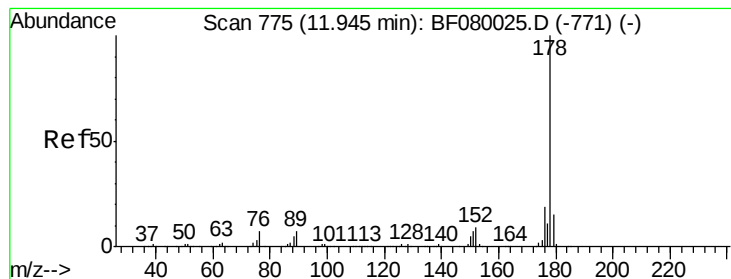


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 2.61 ng m

RT: 11.90 min Scan# 771

Delta R.T. -0.01 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

Instrument :

BNA_F

ClientSampleId :

SB-176(11-13)

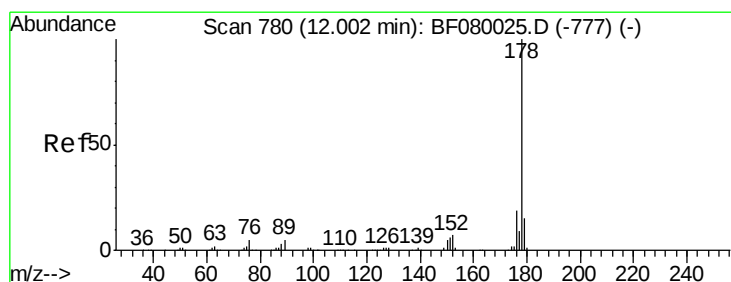
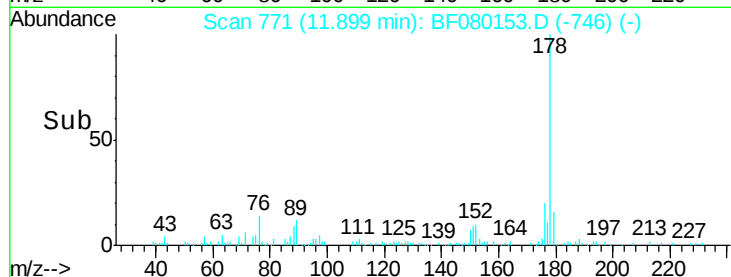
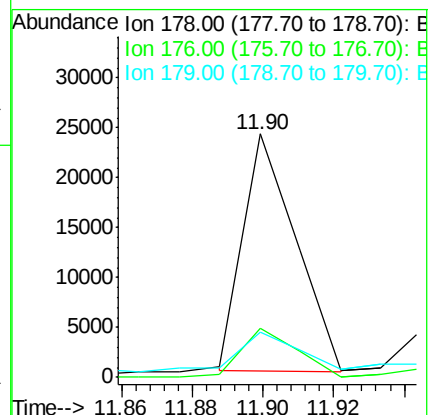
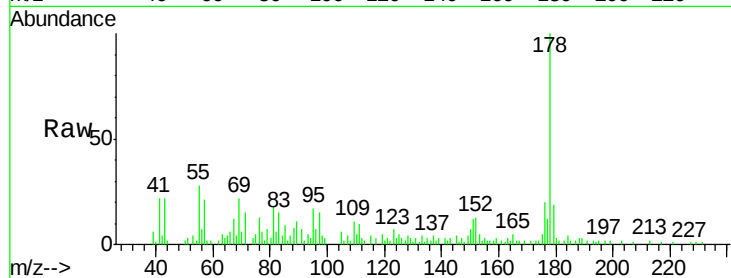
Tgt Ion:178 Resp: 24657

Ion Ratio Lower Upper

178 100

176 20.0 13.8 20.8

179 18.7 12.2 18.2#



#71

Anthracene

Concen: 3.22 ng

RT: 11.96 min Scan# 776

Delta R.T. -0.01 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

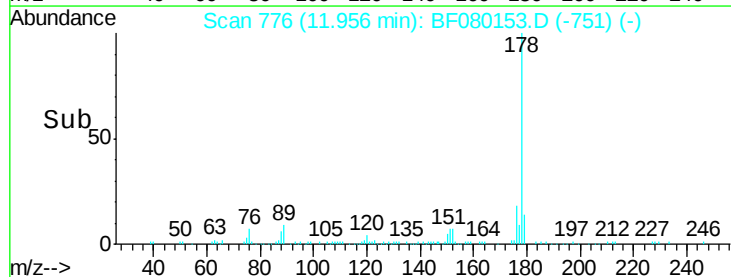
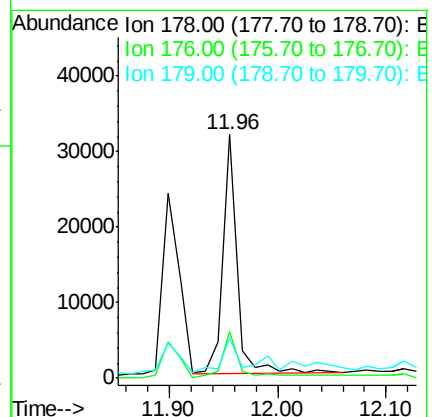
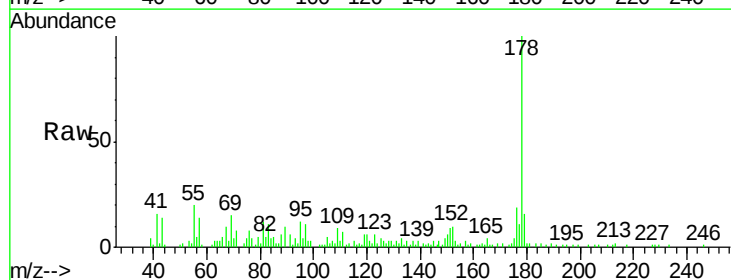
Tgt Ion:178 Resp: 29217

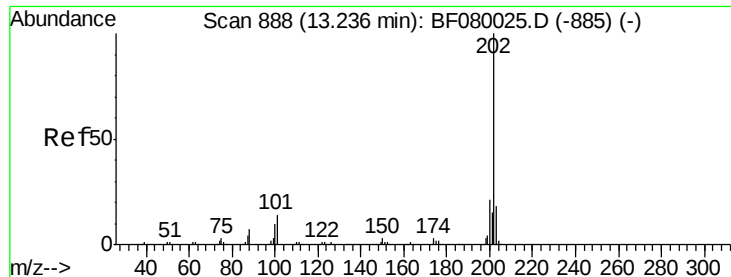
Ion Ratio Lower Upper

178 100

176 19.1 14.1 21.1

179 16.5 12.2 18.2





#74

Fluoranthene

Concen: 4.87 ng

RT: 13.14 min Scan# 880

Delta R.T. -0.06 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

Instrument :

BNA_F

ClientSampleId :

SB-176(11-13)

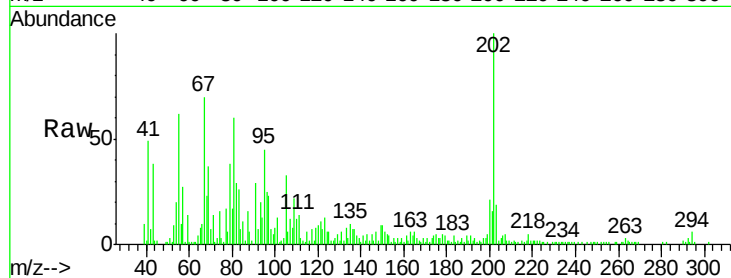
Tgt Ion:202 Resp: 48948

Ion Ratio Lower Upper

202 100

101 12.6 0.0 38.3

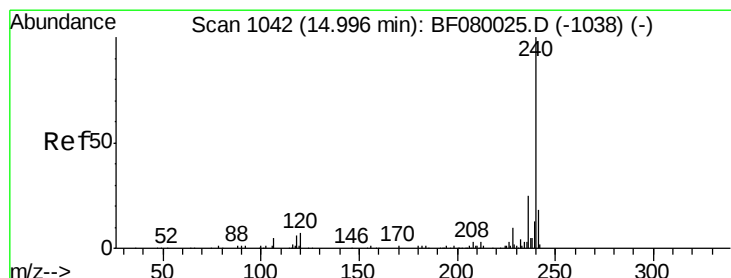
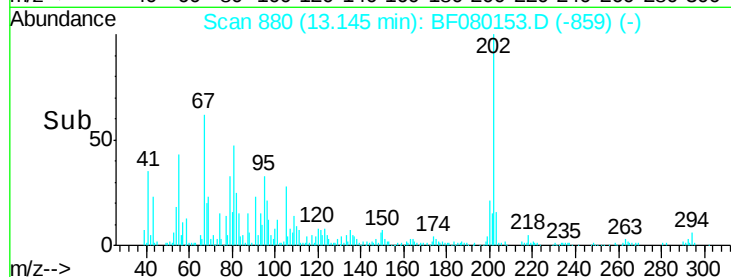
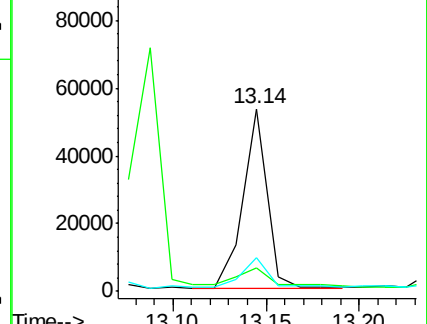
203 18.7 0.0 37.3



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: 14.76 min Scan# 1021

Delta R.T. -0.17 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

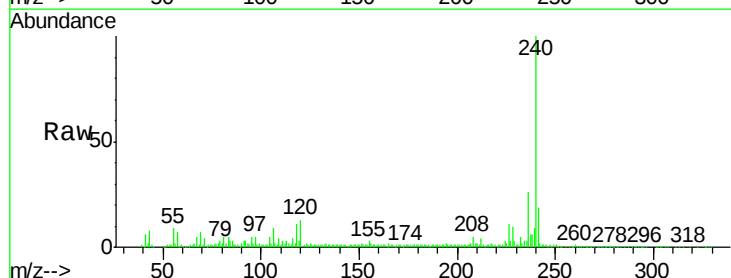
Tgt Ion:240 Resp: 169701

Ion Ratio Lower Upper

240 100

120 12.9 16.2 24.2#

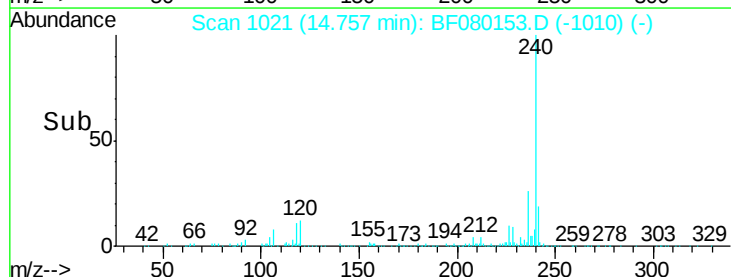
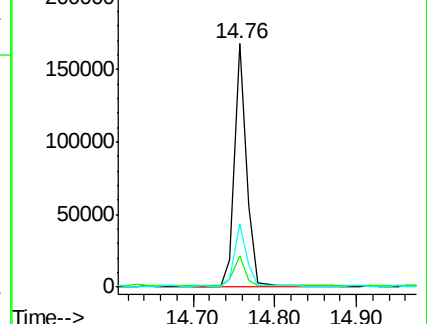
236 25.9 18.4 27.6

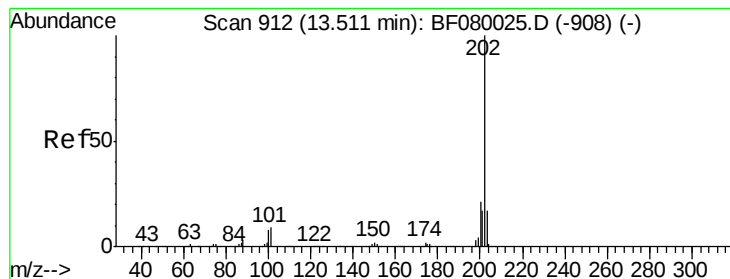


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 7.21 ng

RT: 13.40 min Scan# 902

Delta R.T. -0.07 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

Instrument :

BNA_F

ClientSampleId :

SB-176(11-13)

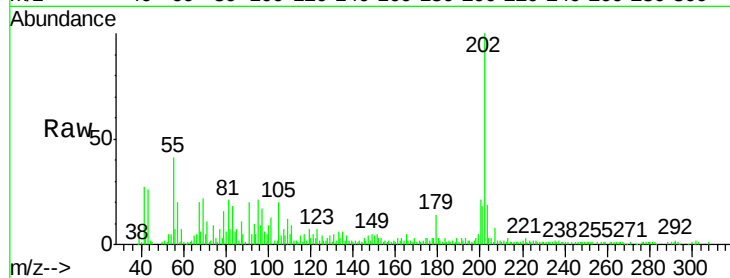
Tgt Ion:202 Resp: 75299

Ion Ratio Lower Upper

202 100

200 21.1 15.0 22.4

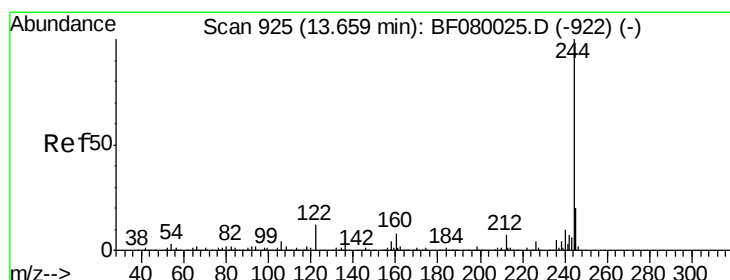
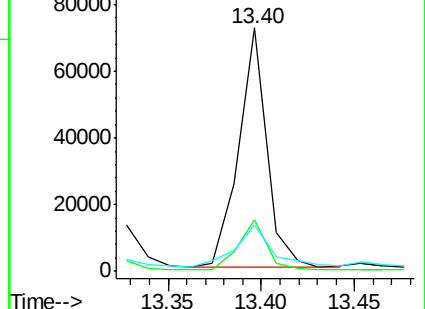
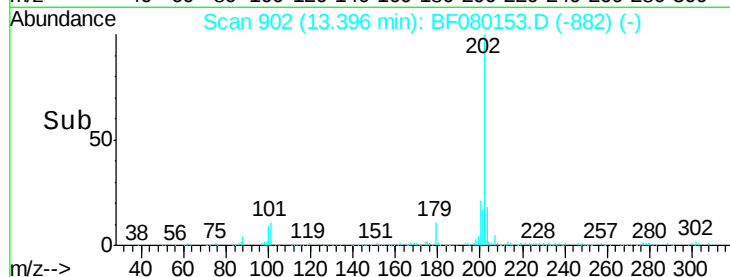
203 19.3 14.1 21.1



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: 47.56 ng

RT: 13.53 min Scan# 914

Delta R.T. -0.08 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

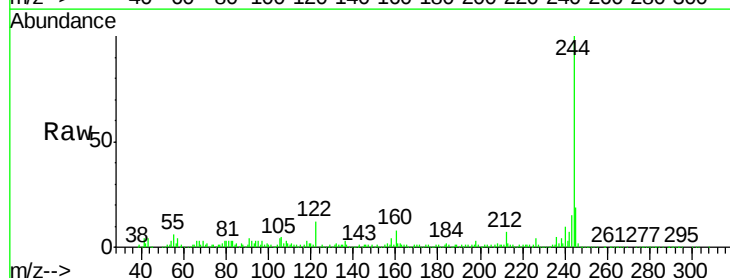
Tgt Ion:244 Resp: 345556

Ion Ratio Lower Upper

244 100

212 6.9 4.3 6.5#

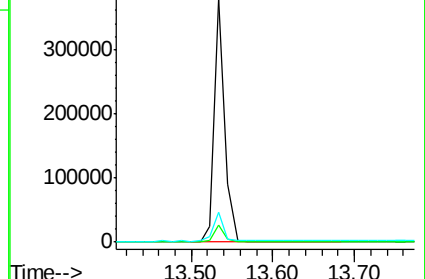
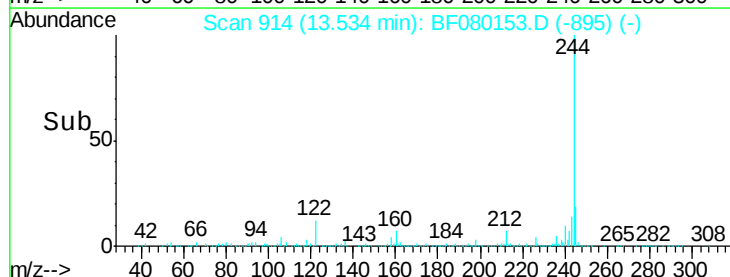
122 12.5 17.4 26.2#

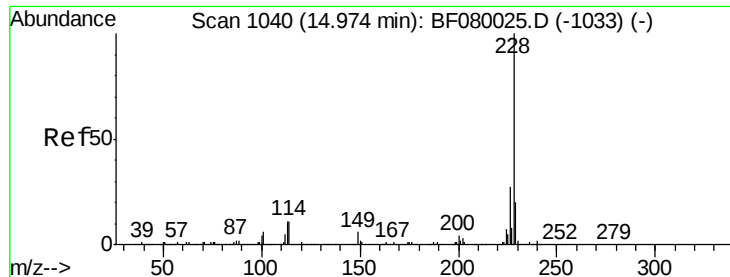


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

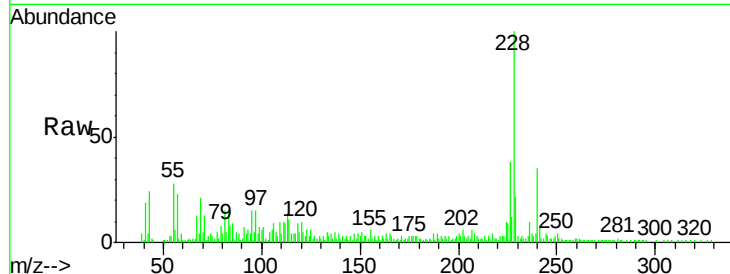




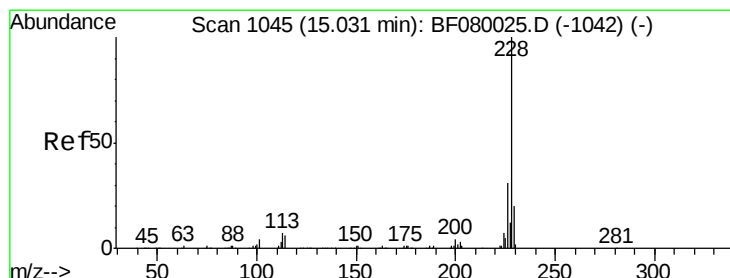
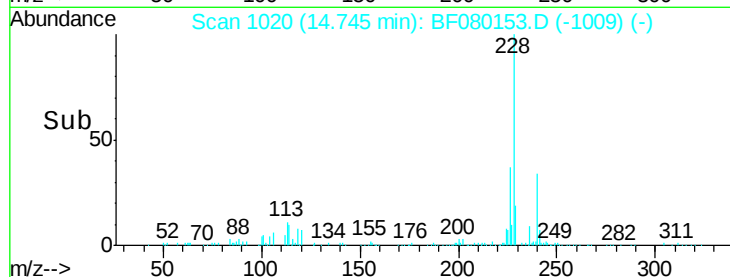
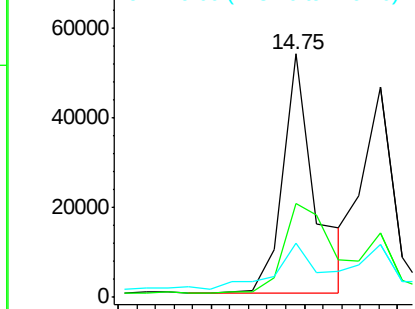
#80
Benzo(a)anthracene
Concen: 6.21 ng
RT: 14.75 min Scan# 1020
Delta R.T. -0.17 min
Lab File: BF080153.D
Acq: 25 Jun 2015 3:35

Instrument :
BNA_F
ClientSampleId :
SB-176(11-13)

Tgt Ion:228 Resp: 64158
Ion Ratio Lower Upper
228 100
226 38.3 20.0 30.0#
229 22.2 15.4 23.2

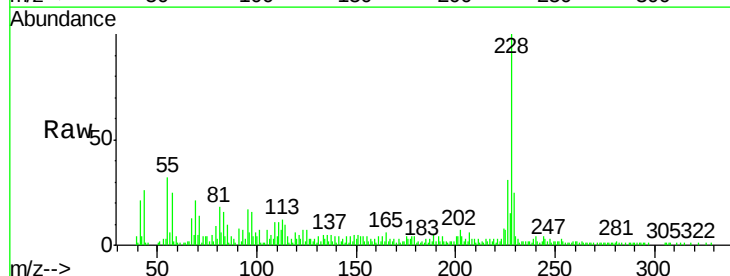


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

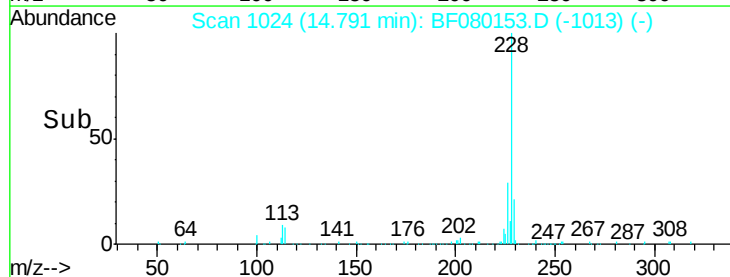
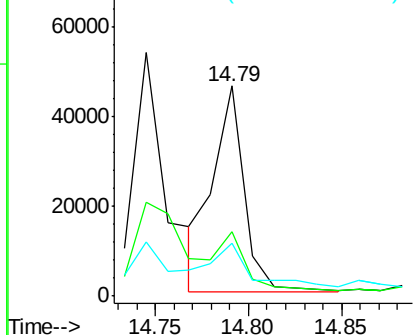


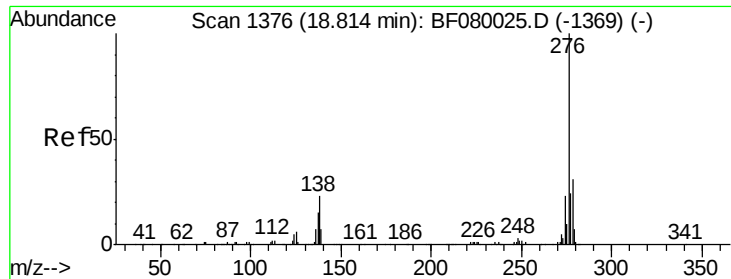
#82
Chrysene
Concen: 5.61 ng
RT: 14.79 min Scan# 1024
Delta R.T. -0.17 min
Lab File: BF080153.D
Acq: 25 Jun 2015 3:35

Tgt Ion:228 Resp: 53519
Ion Ratio Lower Upper
228 100
226 30.7 21.0 31.4
229 25.3 15.6 23.4#



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

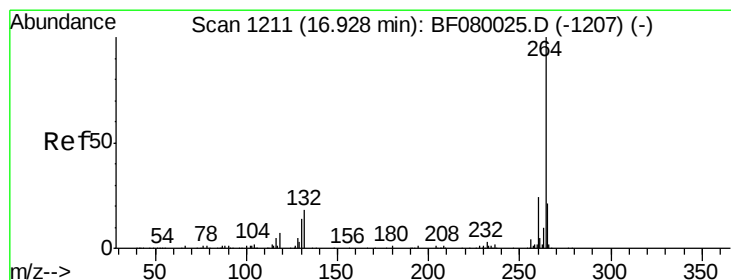
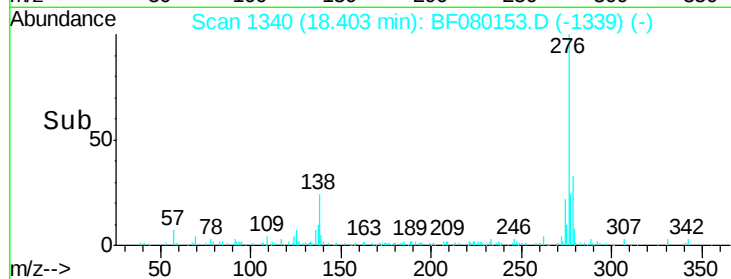
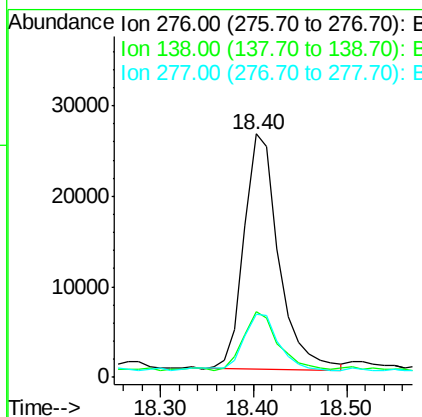
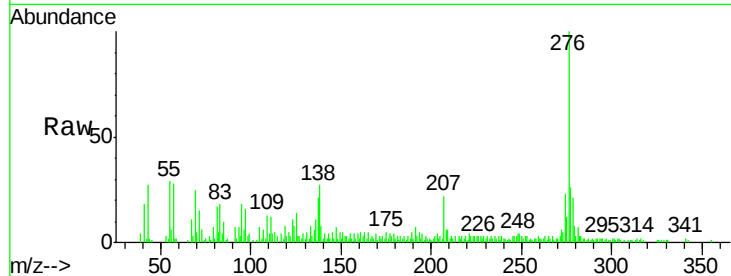




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.61 ng m
 RT: 18.40 min Scan# 1340
 Delta R.T. -0.29 min
 Lab File: BF080153.D
 Acq: 25 Jun 2015 3:35

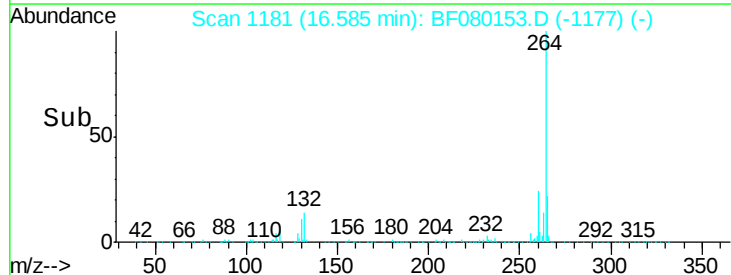
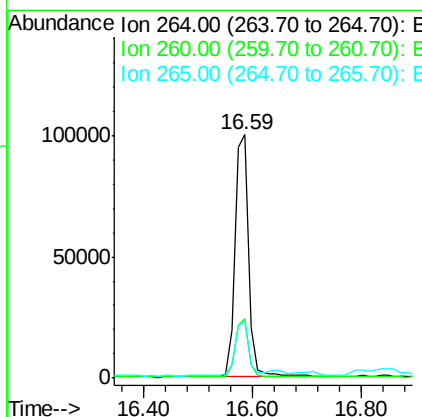
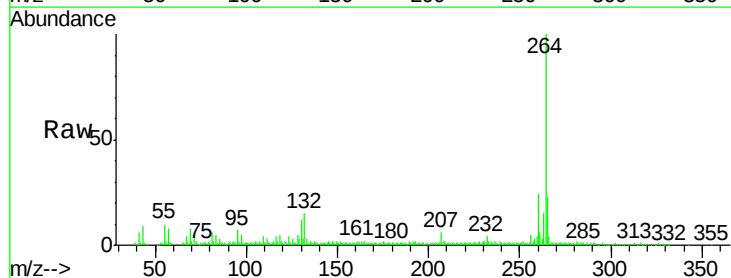
Instrument :
 BNA_F
 ClientSampleId :
 SB-176(11-13)

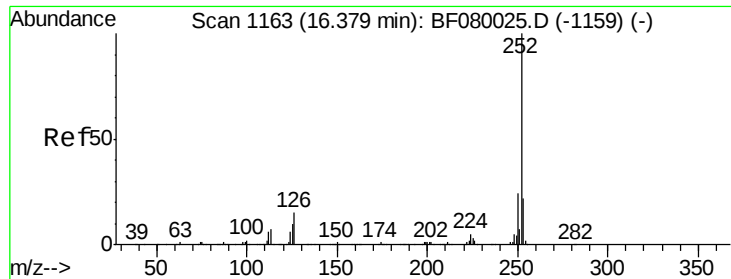
Tgt Ion	Ratio	Lower	Upper
276	100		
138	1.9	25.7	38.5#
277	0.0	15.6	23.4#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.59 min Scan# 1181
 Delta R.T. -0.25 min
 Lab File: BF080153.D
 Acq: 25 Jun 2015 3:35

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	16.7	25.1
265	23.1	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 8.80 ng m

RT: 16.05 min Scan# 1134

Delta R.T. -0.25 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

Instrument :

BNA_F

ClientSampleId :

SB-176(11-13)

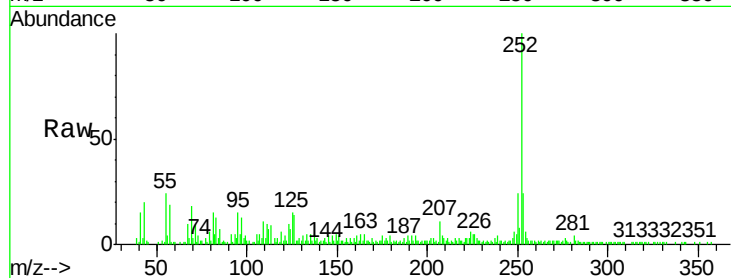
Tgt Ion:252 Resp: 90490

Ion Ratio Lower Upper

252 100

253 24.2 17.5 26.3

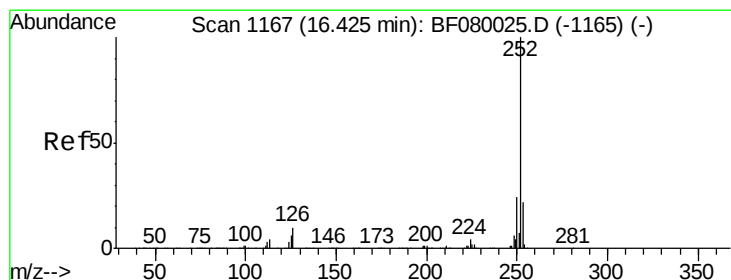
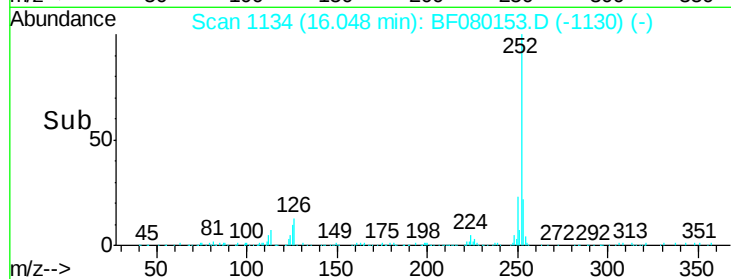
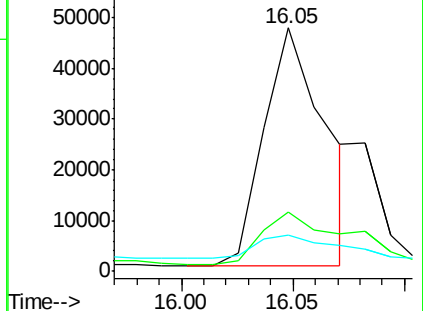
125 15.1 17.1 25.7#



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



#88

Benzo(k)fluoranthene

Concen: 2.14 ng m

RT: 16.08 min Scan# 1137

Delta R.T. -0.25 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

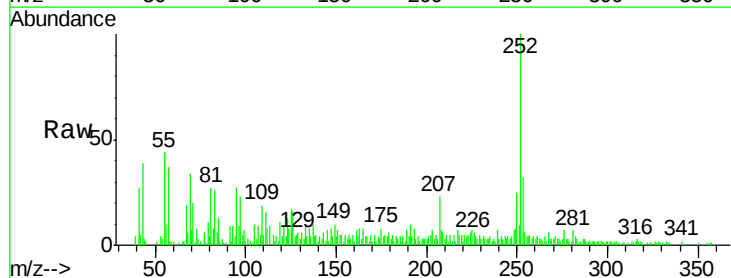
Tgt Ion:252 Resp: 22397

Ion Ratio Lower Upper

252 100

253 31.8 17.0 25.4#

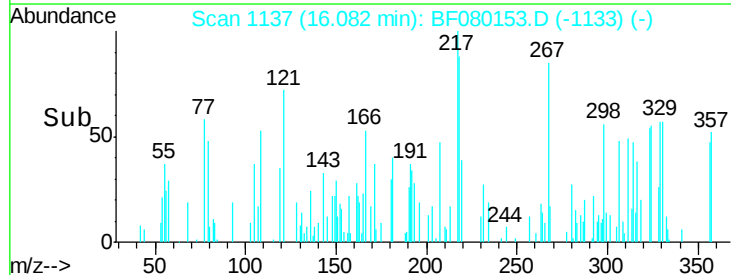
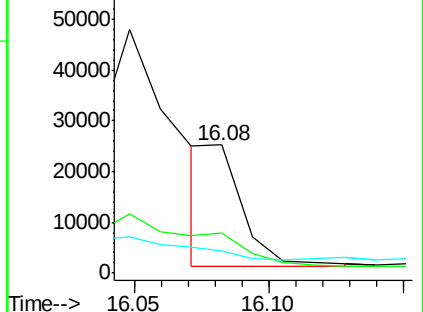
125 17.5 16.0 24.0

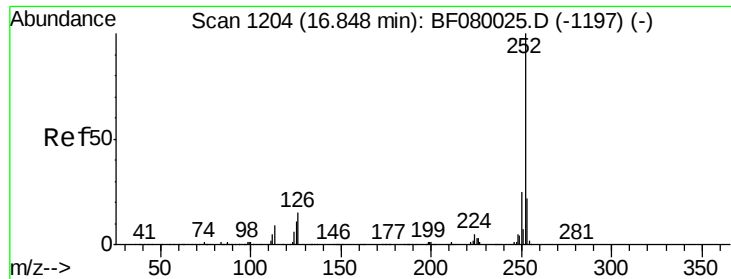


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 7.70 ng

RT: 16.49 min Scan# 1173

Delta R.T. -0.26 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

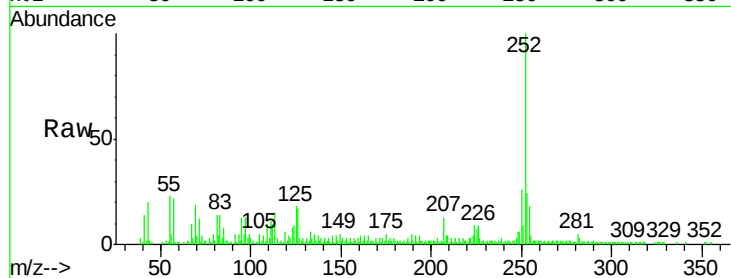
Instrument :

BNA_F

ClientSampleId :

SB-176(11-13)

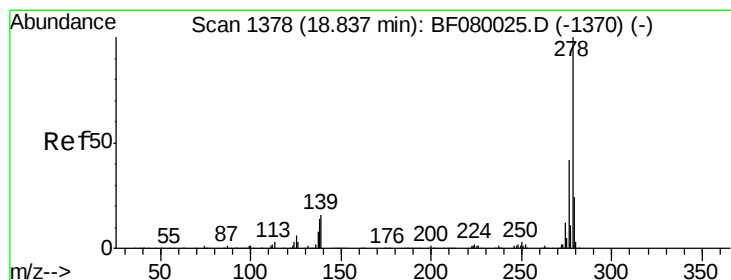
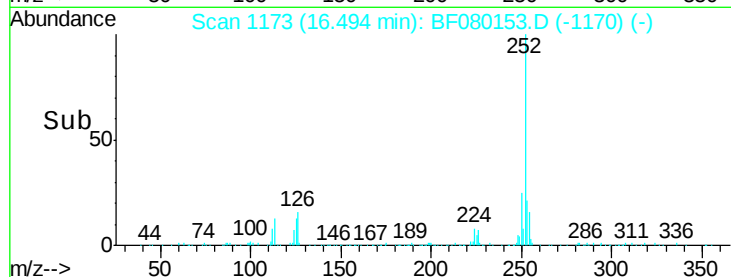
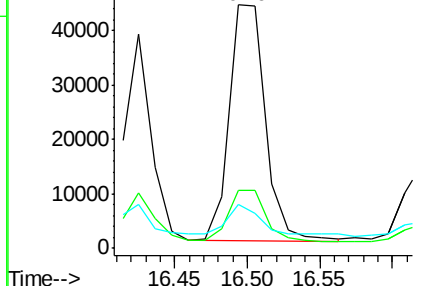
Tgt Ion:	252	Resp:	75139
Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.2	25.8
125	18.3	18.0	27.0



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: 3.26 ng

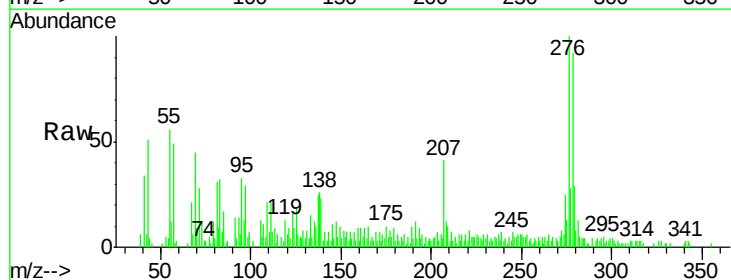
RT: 18.43 min Scan# 1342

Delta R.T. -0.29 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

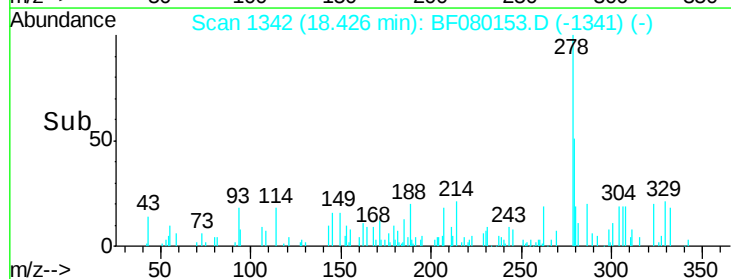
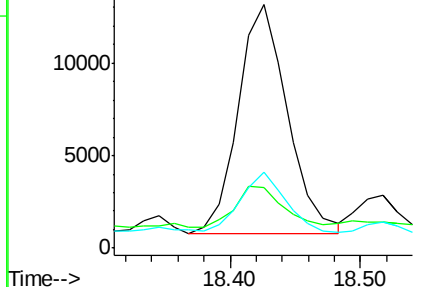
Tgt Ion:	278	Resp:	32624
Ion	Ratio	Lower	Upper
278	100		
139	24.9	26.3	39.5#
279	31.4	18.2	27.4#

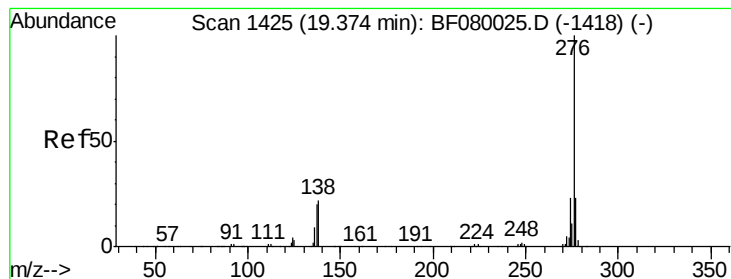


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 6.68 ng

RT: 18.96 min Scan# 1389

Delta R.T. -0.29 min

Lab File: BF080153.D

Acq: 25 Jun 2015 3:35

Instrument :

BNA_F

ClientSampleId :

SB-176(11-13)

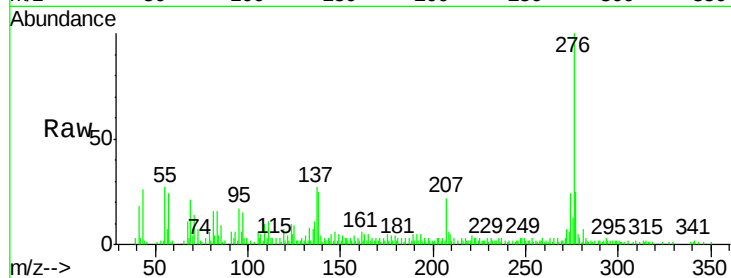
Tgt Ion: 276 Resp: 67402

Ion Ratio Lower Upper

276 100

277 25.1 17.8 26.6

138 24.8 34.6 51.8#



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

