

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060415\
 Data File : BF079731.D
 Acq On : 5 Jun 2015 7:08
 Operator : TP/IZ
 Sample : G2450-03
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.3-SP

Quant Time: Jun 06 04:30:29 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jun 06 03:31:13 2015
 Response via : Initial Calibration

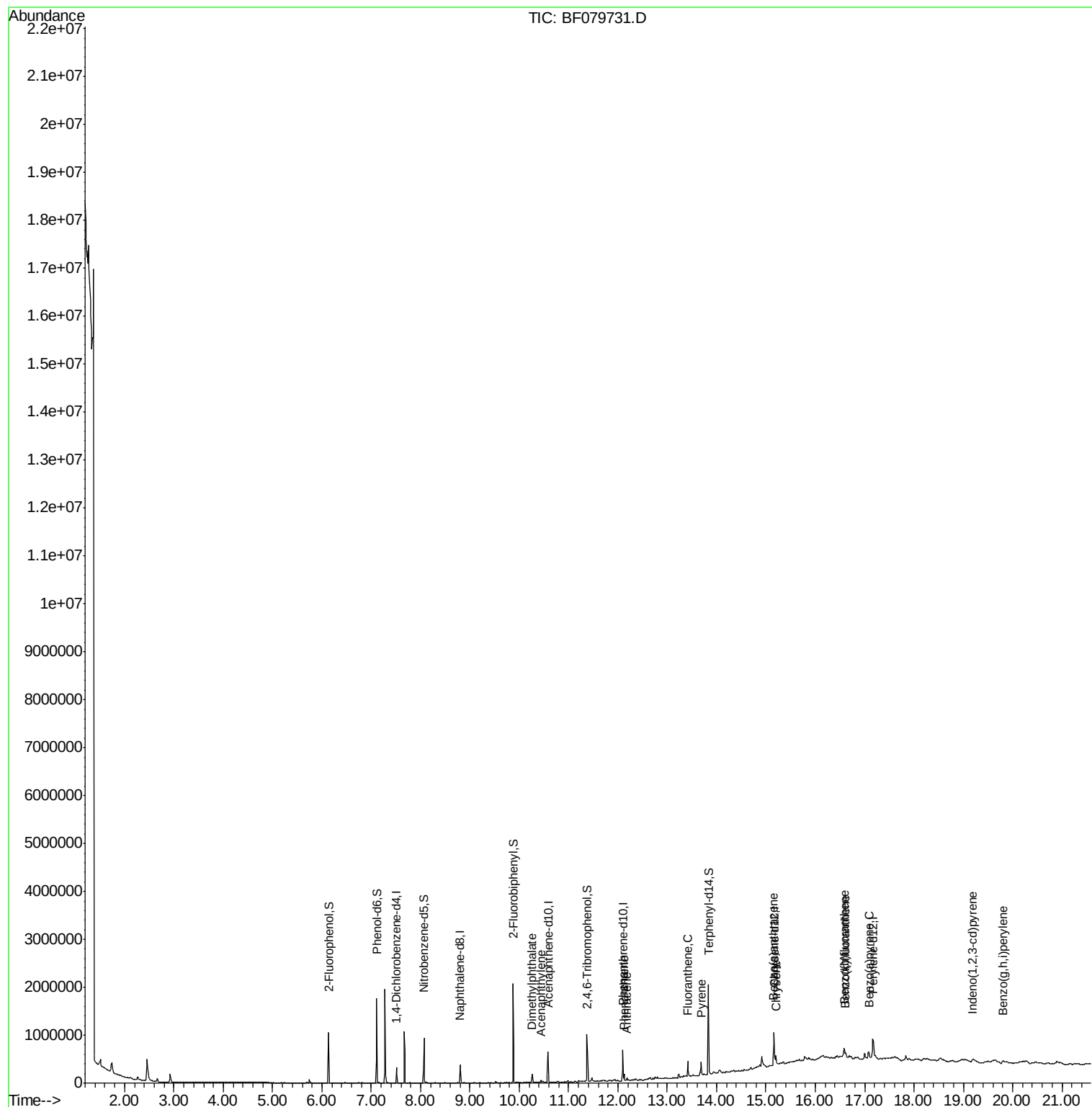
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	58149	20.00	ng	0.00
21) Naphthalene-d8	8.80	136	221024	20.00	ng	0.00
38) Acenaphthene-d10	10.58	164	123147	20.00	ng	0.00
63) Phenanthrene-d10	12.10	188	243782	20.00	ng	0.02
75) Chrysene-d12	15.17	240	267537m	20.00	ng	0.18
86) Perylene-d12	17.17	264	253645m	20.00	ng	0.25
System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	405710	119.64	ng	0.01
7) Phenol-d6	7.11	99	570701	129.28	ng	0.01
23) Nitrobenzene-d5	8.07	82	282095	77.71	ng	0.00
41) 2,4,6-Tribromophenol	11.38	330	133681	120.88	ng	0.01
44) 2-Fluorobiphenyl	9.87	172	672243	79.03	ng	0.00
78) Terphenyl-d14	13.84	244	879426	77.44	ng	0.10
Target Compounds						Qvalue
48) Acenaphthylene	10.45	152	27926	2.03	ng	99
49) Dimethylphthalate	10.26	163	61737	6.51	ng	# 97
70) Phenanthrene	12.13	178	51761	3.65	ng	98
71) Anthracene	12.18	178	31275	2.23	ng	98
74) Fluoranthene	13.42	202	147985	9.62	ng	98
77) Pyrene	13.69	202	144896	8.72	ng	98
80) Benzo(a)anthracene	15.15	228	92416m	5.65	ng	
82) Chrysene	15.20	228	105164m	6.87	ng	
85) Indeno(1,2,3-cd)pyrene	19.19	276	55111m	3.19	ng	
87) Benzo(b)fluoranthene	16.58	252	142341m	8.70	ng	
88) Benzo(k)fluoranthene	16.62	252	43295m	2.77	ng	
89) Benzo(a)pyrene	17.09	252	74656m	4.99	ng	
91) Benzo(g,h,i)perylene	19.81	276	49386m	3.50	ng	

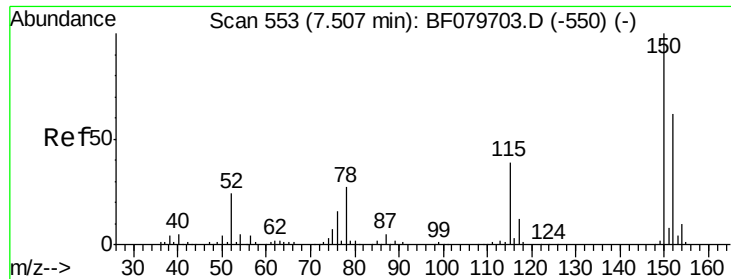
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.51 min Scan# 553

Delta R.T. 0.00 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

Instrument :

BNA_F

ClientSampleId :

SEC-3.3-SP

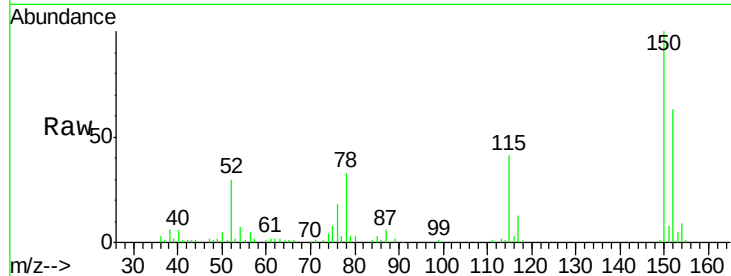
Tgt Ion:152 Resp: 58149

Ion Ratio Lower Upper

152 100

150 158.4 128.1 192.1

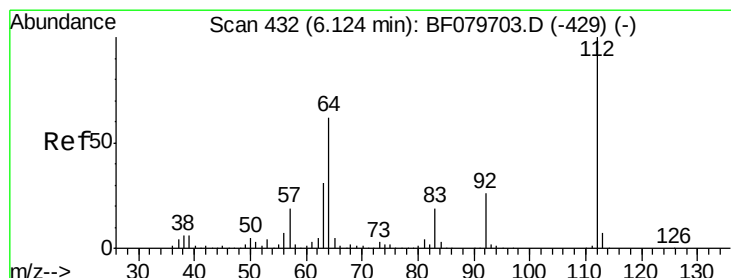
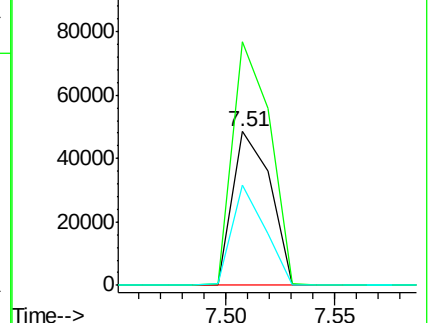
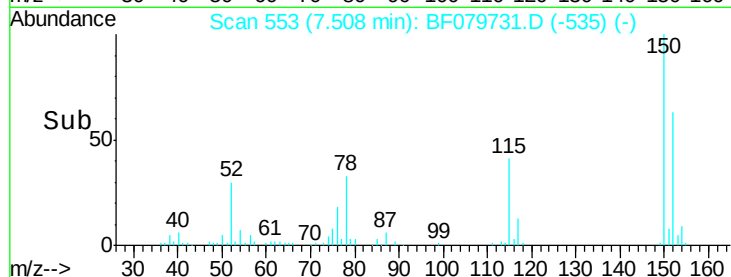
115 65.6 49.7 74.5



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: 119.64 ng

RT: 6.14 min Scan# 433

Delta R.T. 0.01 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

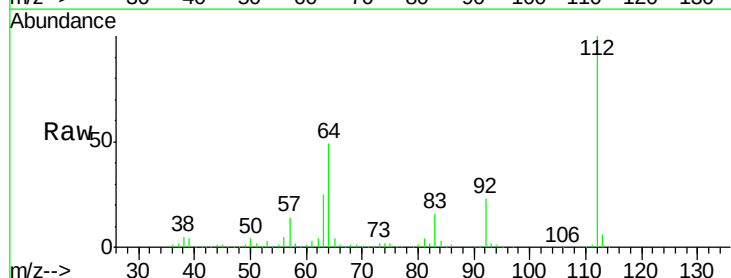
Tgt Ion:112 Resp: 405710

Ion Ratio Lower Upper

112 100

64 48.7 49.6 74.4#

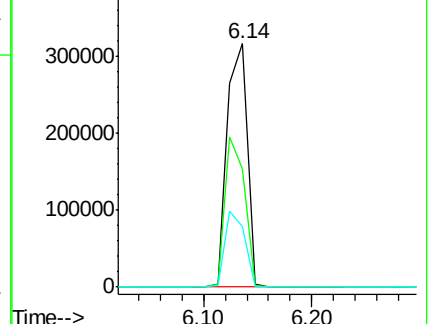
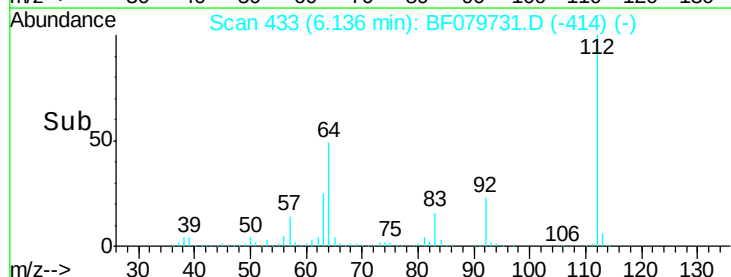
63 24.9 24.9 37.3

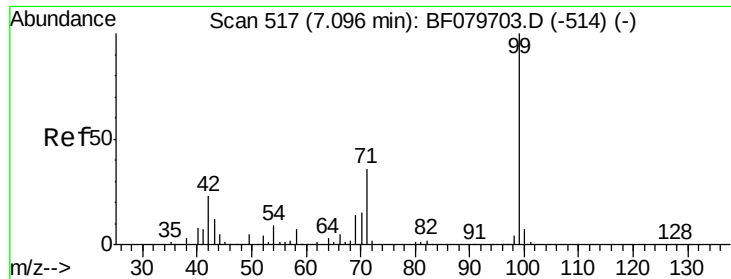


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 129.28 ng

RT: 7.11 min Scan# 518

Delta R.T. 0.01 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

Instrument :

BNA_F

ClientSampleId :

SEC-3.3-SP

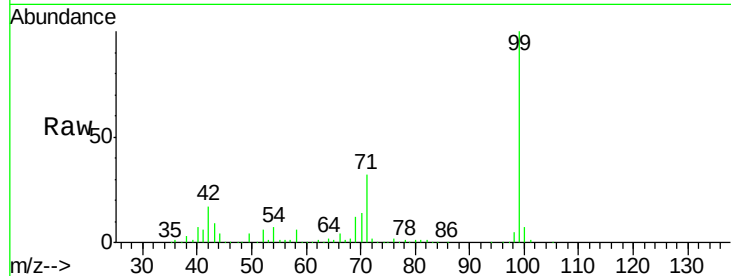
Tgt Ion: 99 Resp: 570701

Ion Ratio Lower Upper

99 100

42 17.2 18.0 27.0#

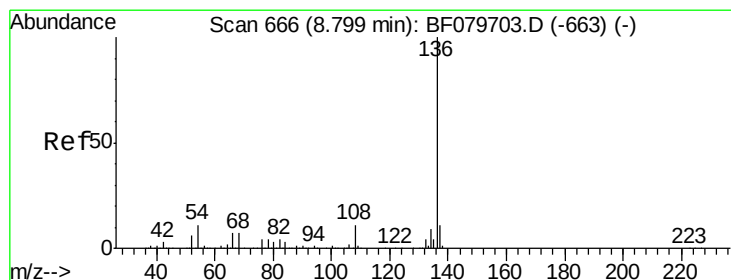
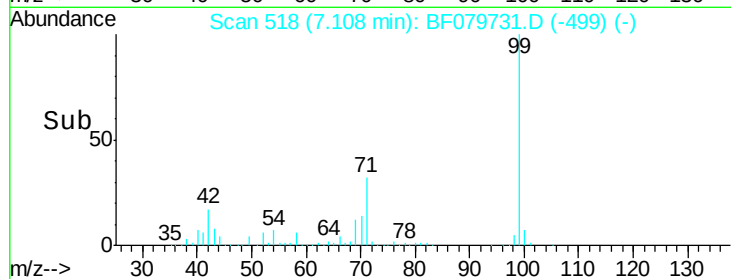
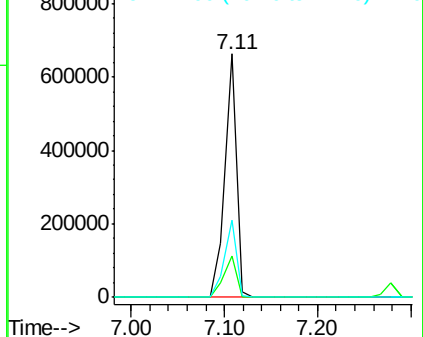
71 31.8 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.80 min Scan# 666

Delta R.T. 0.00 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

Tgt Ion: 136 Resp: 221024

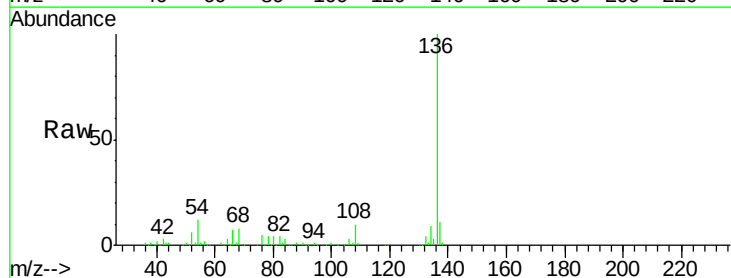
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 11.6 8.7 13.1

68 7.9 5.8 8.8

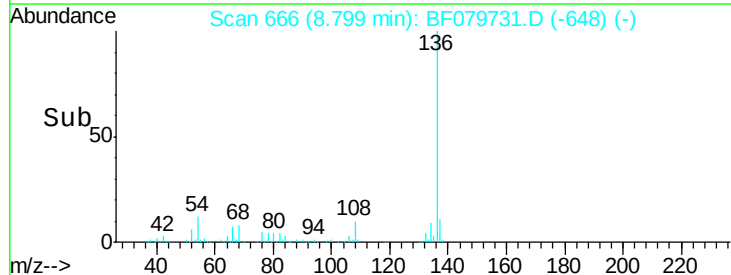
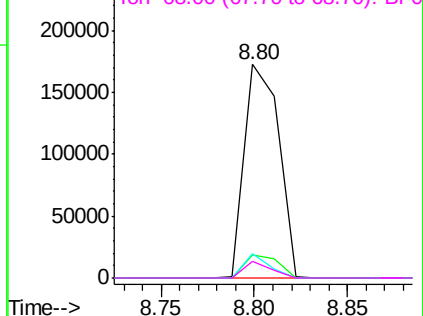


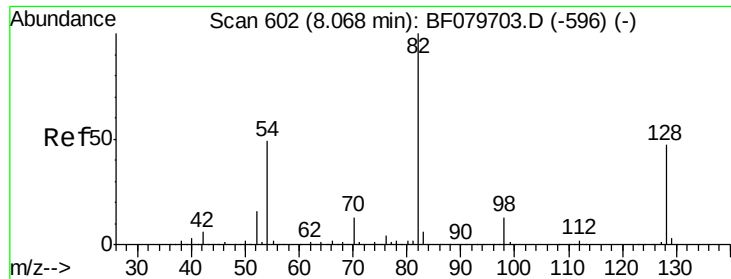
Abundance Ion 136.00 (135.70 to 136.70): E

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

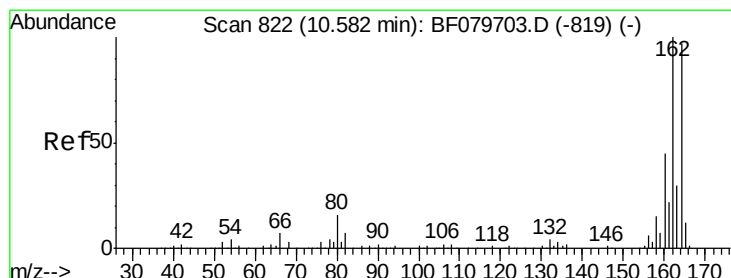
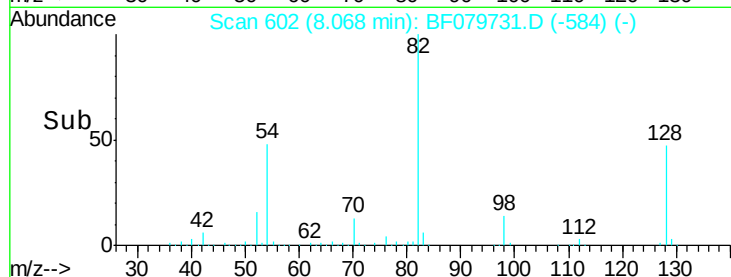
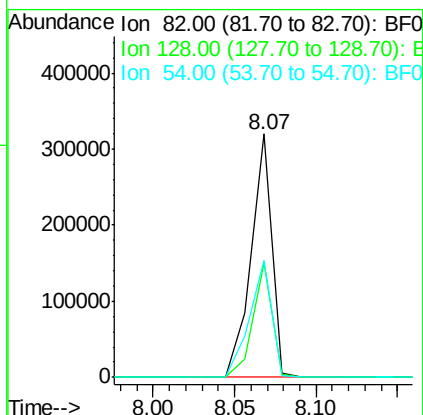
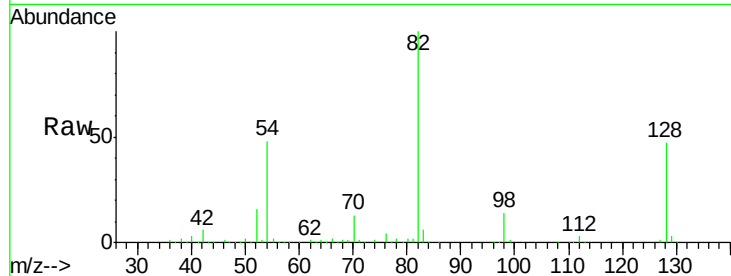




#23
 Nitrobenzene-d5
 Concen: 77.71 ng
 RT: 8.07 min Scan# 602
 Delta R.T. 0.00 min
 Lab File: BF079731.D
 Acq: 5 Jun 2015 7:08

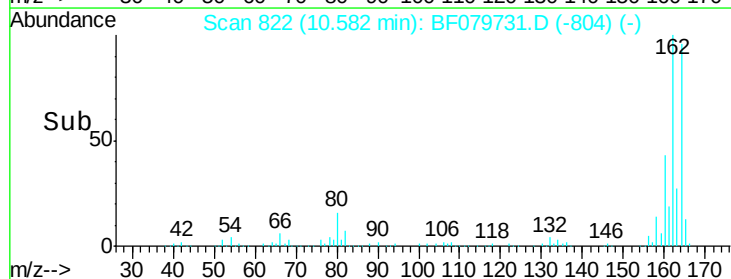
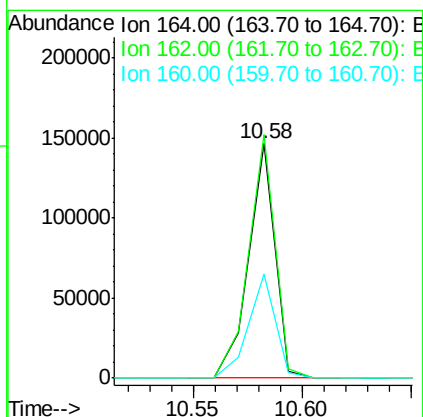
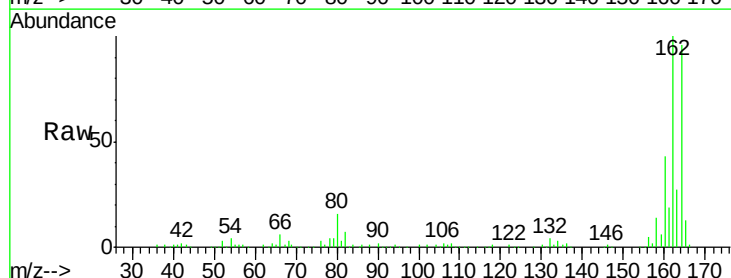
Instrument :
 BNA_F
 ClientSampled :
 SEC-3.3-SP

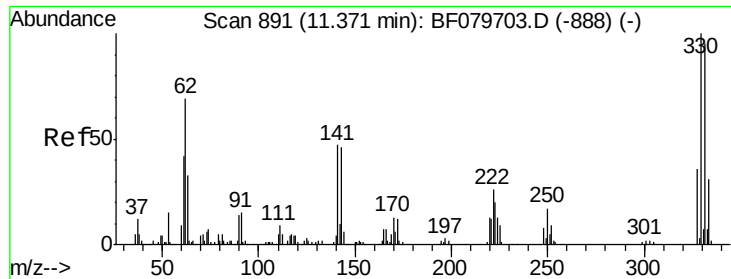
Tgt Ion: 82 Resp: 282095
 Ion Ratio Lower Upper
 82 100
 128 46.9 37.6 56.4
 54 47.9 39.4 59.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.58 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: BF079731.D
 Acq: 5 Jun 2015 7:08

Tgt Ion: 164 Resp: 123147
 Ion Ratio Lower Upper
 164 100
 162 103.8 82.6 123.8
 160 44.5 36.8 55.2

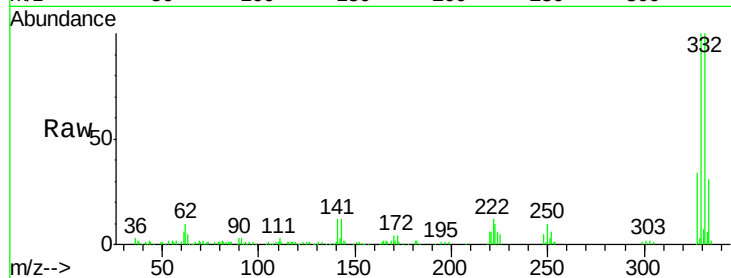




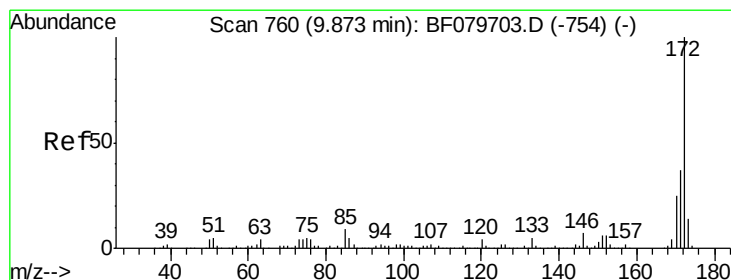
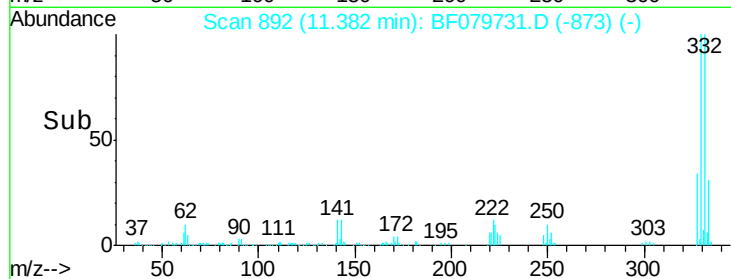
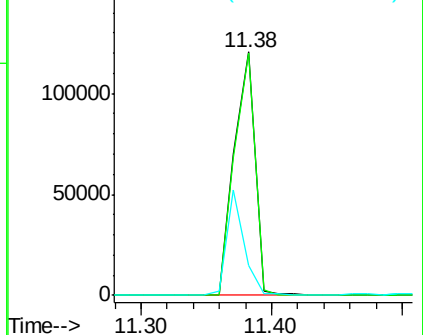
#41
 2,4,6-Tribromophenol
 Concen: 120.88 ng
 RT: 11.38 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: BF079731.D
 Acq: 5 Jun 2015 7:08

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.3-SP

Tgt Ion:330 Resp: 133681
 Ion Ratio Lower Upper
 330 100
 332 98.8 77.4 116.0
 141 37.4 30.2 45.2

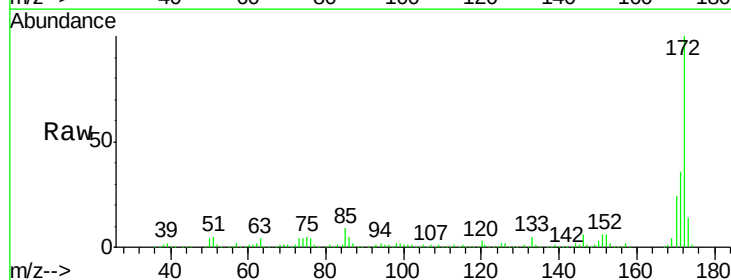


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

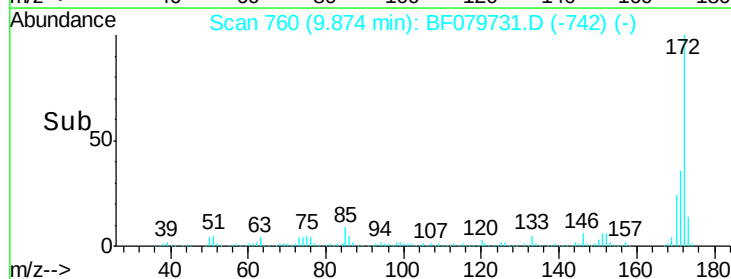
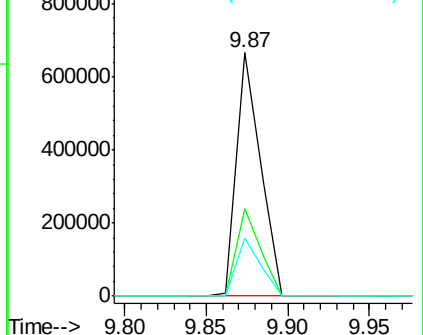


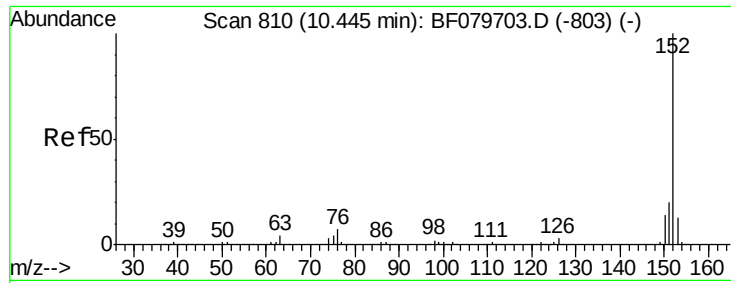
#44
 2-Fluorobiphenyl
 Concen: 79.03 ng
 RT: 9.87 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: BF079731.D
 Acq: 5 Jun 2015 7:08

Tgt Ion:172 Resp: 672243
 Ion Ratio Lower Upper
 172 100
 171 35.8 29.4 44.0
 170 23.7 19.7 29.5



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.03 ng

RT: 10.45 min Scan# 810

Delta R.T. 0.01 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

Instrument :

BNA_F

ClientSampleId :

SEC-3.3-SP

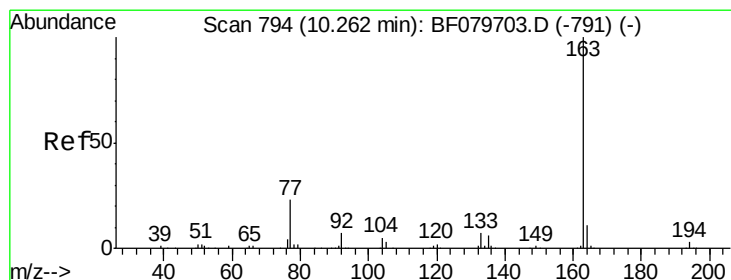
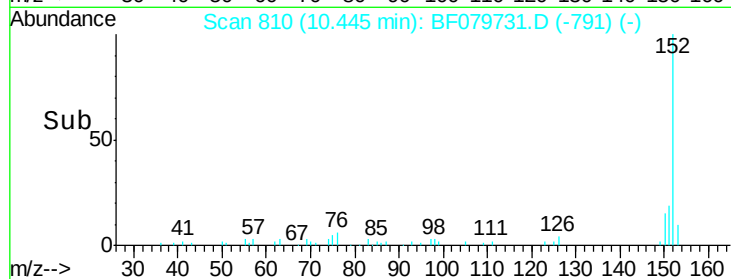
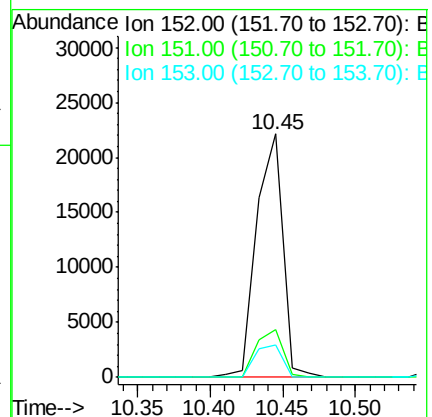
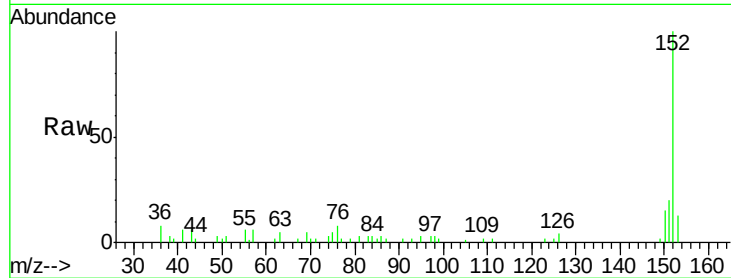
Tgt Ion:152 Resp: 27926

Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.4

153 13.3 10.4 15.6



#49

Dimethylphthalate

Concen: 6.51 ng

RT: 10.26 min Scan# 794

Delta R.T. 0.00 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

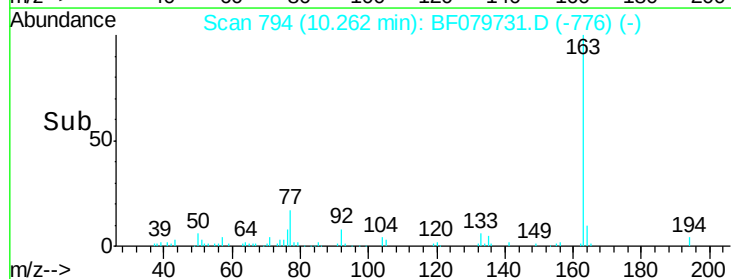
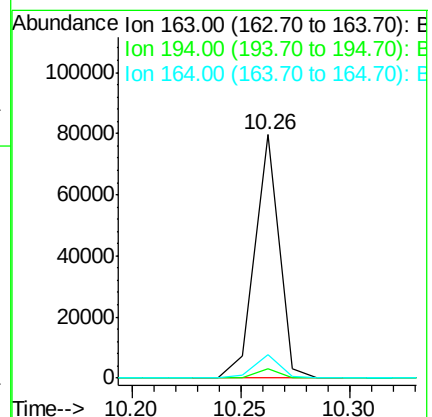
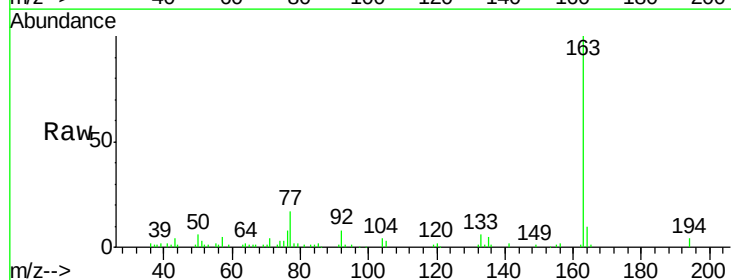
Tgt Ion:163 Resp: 61737

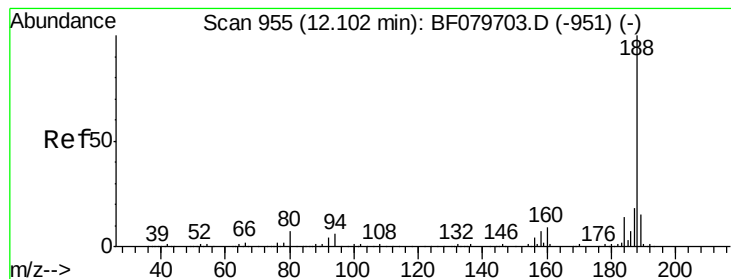
Ion Ratio Lower Upper

163 100

194 3.9 2.6 3.8#

164 9.6 8.5 12.7





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.10 min Scan# 955

Delta R.T. 0.02 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

Instrument :

BNA_F

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SEC-3.3-SP

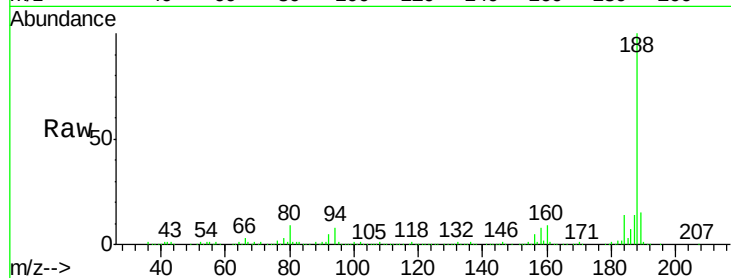
Tgt Ion:188 Resp: 243782

Ion Ratio Lower Upper

188 100

94 7.5 5.0 7.4#

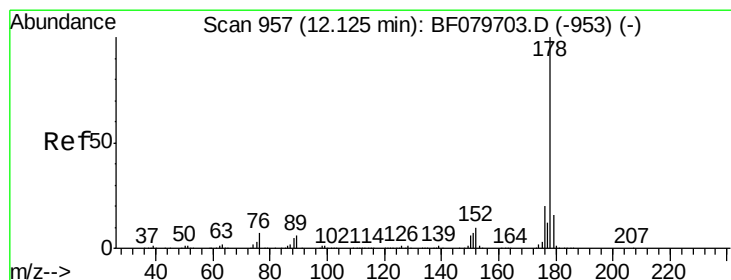
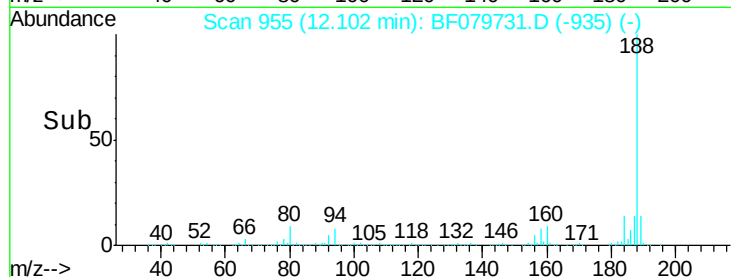
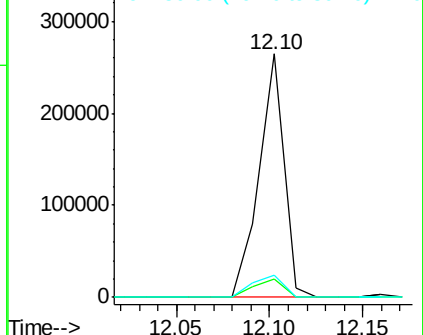
80 9.0 5.3 7.9#



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: 3.65 ng

RT: 12.13 min Scan# 957

Delta R.T. 0.01 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

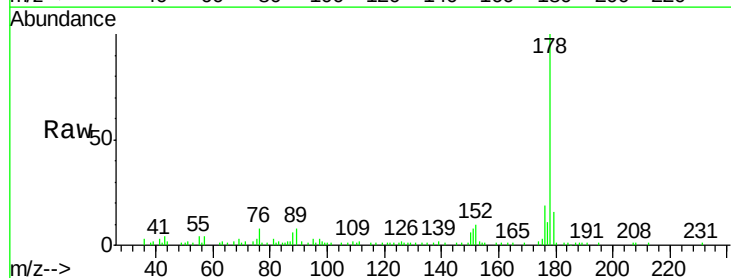
Tgt Ion:178 Resp: 51761

Ion Ratio Lower Upper

178 100

176 19.3 16.2 24.4

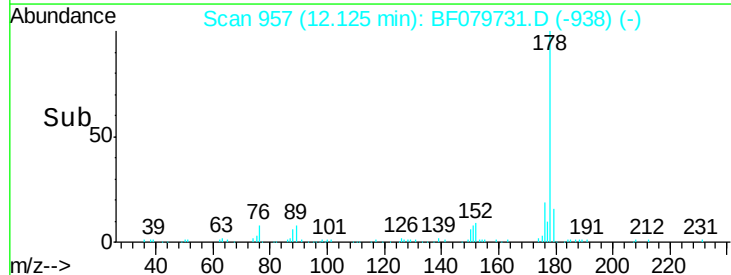
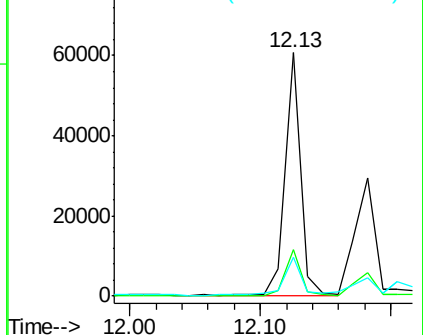
179 16.2 12.6 19.0

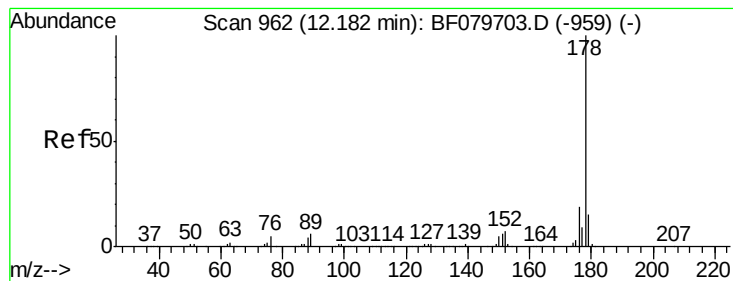


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 2.23 ng

RT: 12.18 min Scan# 962

Delta R.T. 0.02 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

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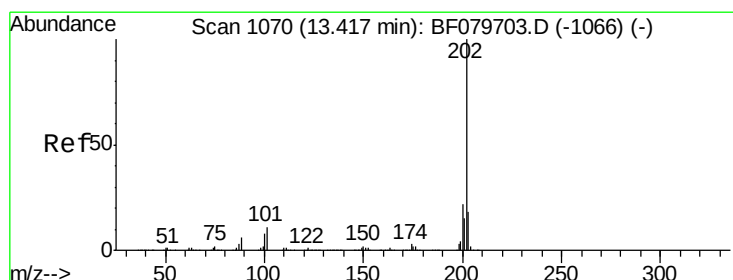
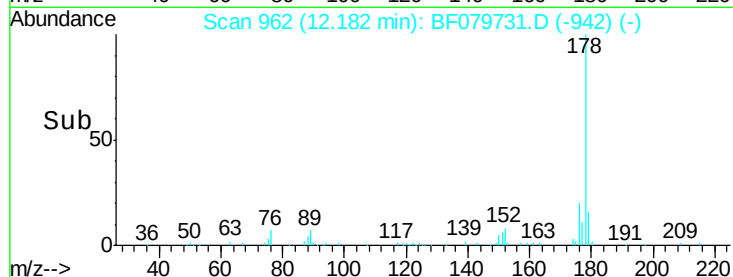
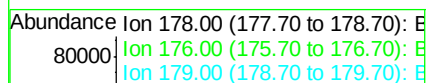
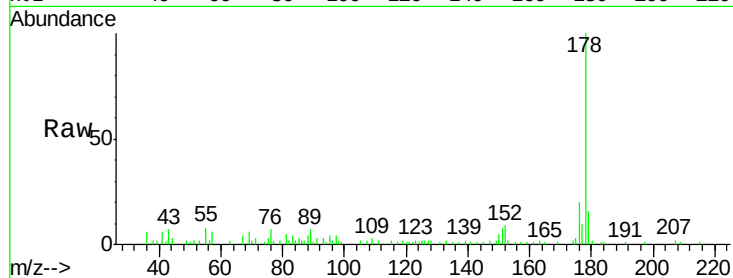
Tgt Ion:178 Resp: 31275

Ion Ratio Lower Upper

178 100

176 19.5 14.8 22.2

179 16.0 12.2 18.2



#74

Fluoranthene

Concen: 9.62 ng

RT: 13.42 min Scan# 1070

Delta R.T. 0.07 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

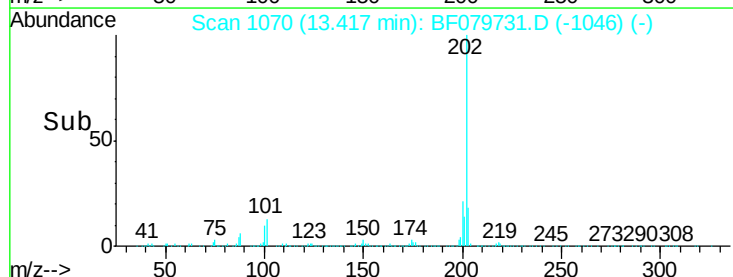
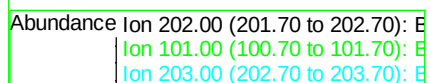
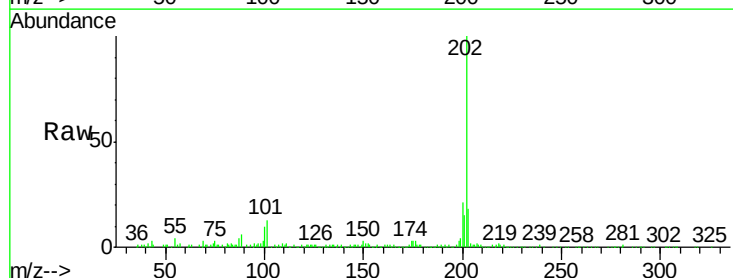
Tgt Ion:202 Resp: 147985

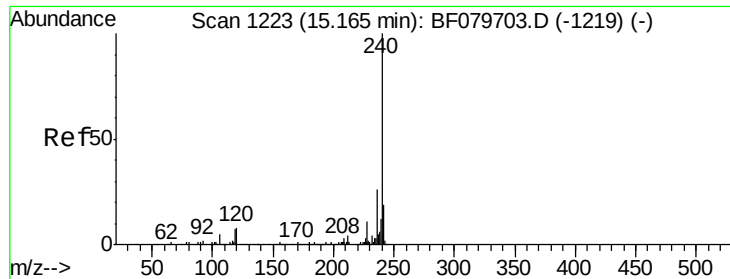
Ion Ratio Lower Upper

202 100

101 13.2 0.0 31.3

203 18.0 0.0 38.4





#75

Chrysene-d12

Concen: 20.00 ng m

RT: 15.17 min Scan# 1223

Delta R.T. 0.18 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

Instrument :

BNA_F

ClientSampleId :

SEC-3.3-SP

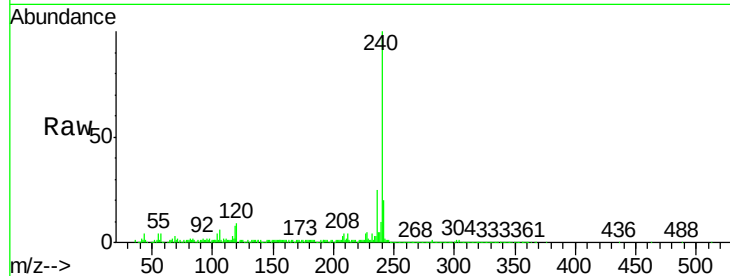
Tgt Ion:240 Resp: 267537

Ion Ratio Lower Upper

240 100

120 9.2 6.2 9.2

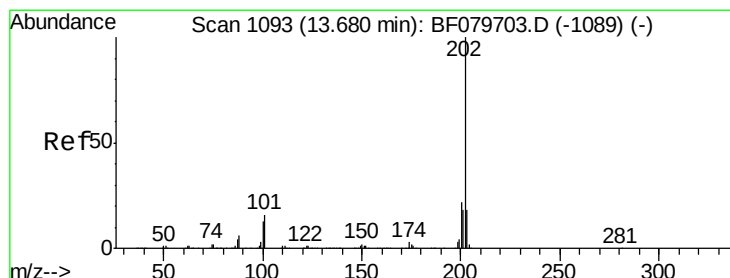
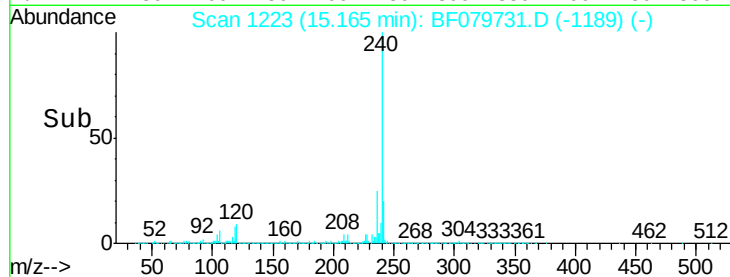
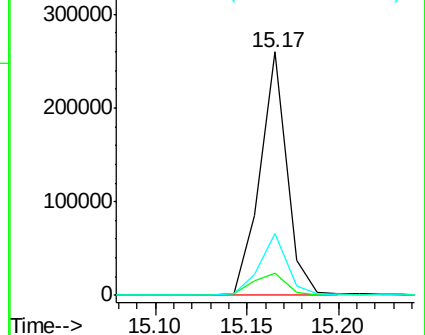
236 25.4 21.0 31.4



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: 8.72 ng

RT: 13.69 min Scan# 1094

Delta R.T. 0.09 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

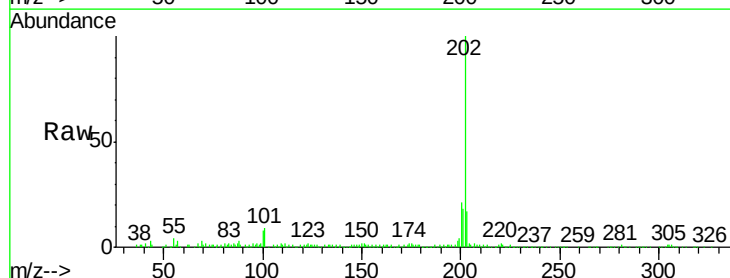
Tgt Ion:202 Resp: 144896

Ion Ratio Lower Upper

202 100

200 21.1 17.5 26.3

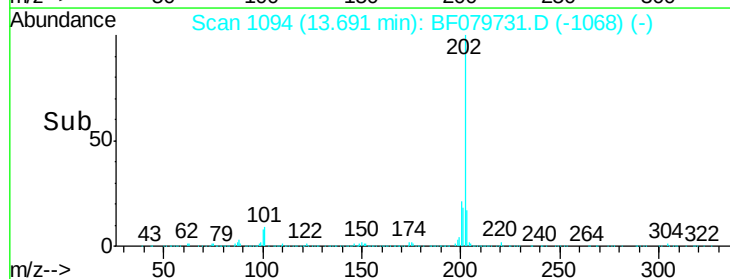
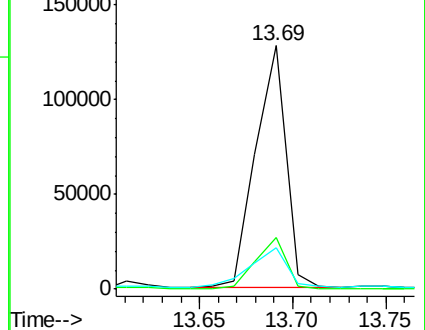
203 17.0 14.8 22.2

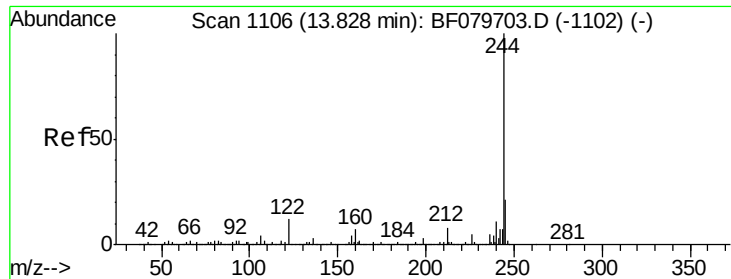


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

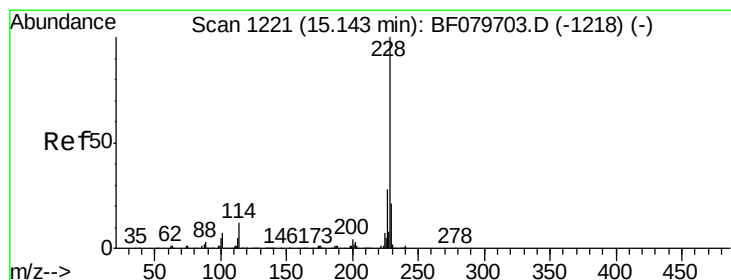
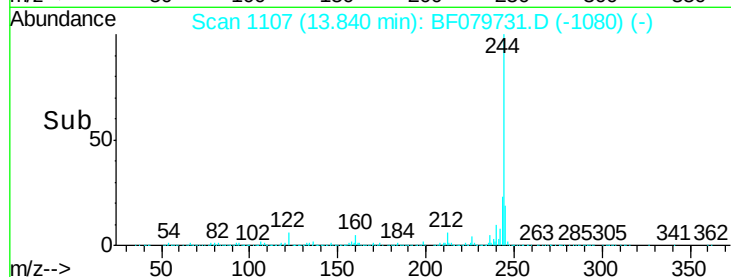
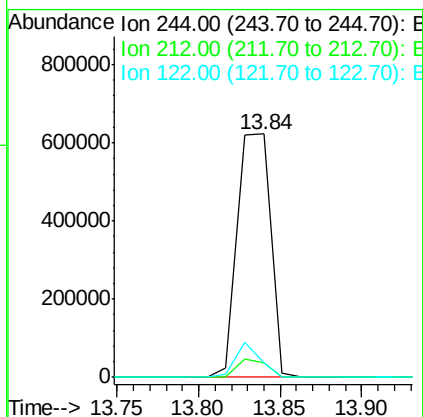
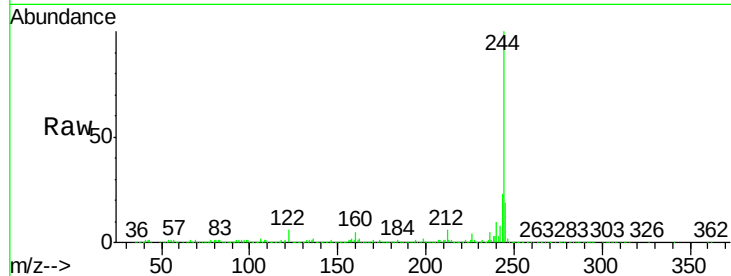




#78
 Terphenyl-d14
 Concen: 77.44 ng
 RT: 13.84 min Scan# 1107
 Delta R.T. 0.10 min
 Lab File: BF079731.D
 Acq: 5 Jun 2015 7:08

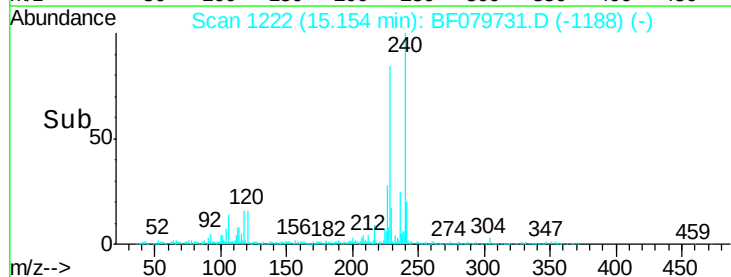
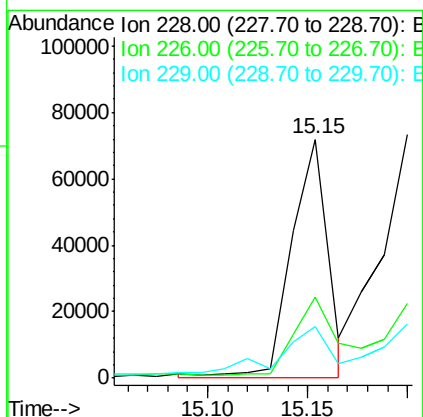
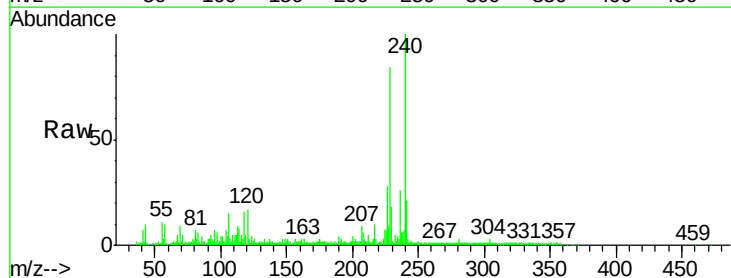
Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.3-SP

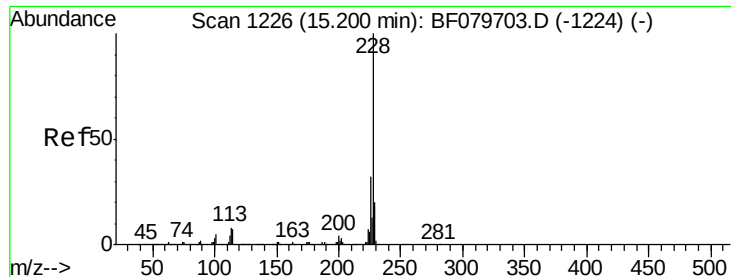
Tgt Ion:244 Resp: 879426
 Ion Ratio Lower Upper
 244 100
 212 6.1 6.1 9.1
 122 6.2 9.3 13.9#



#80
 Benzo(a)anthracene
 Concen: 5.65 ng m
 RT: 15.15 min Scan# 1222
 Delta R.T. 0.18 min
 Lab File: BF079731.D
 Acq: 5 Jun 2015 7:08

Tgt Ion:228 Resp: 92416
 Ion Ratio Lower Upper
 228 100
 226 33.9 22.2 33.4#
 229 21.9 16.6 25.0





#82

Chrysene

Concen: 6.87 ng m

RT: 15.20 min Scan# 1226

Delta R.T. 0.18 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

Instrument :

BNA_F

ClientSampleId :

SEC-3.3-SP

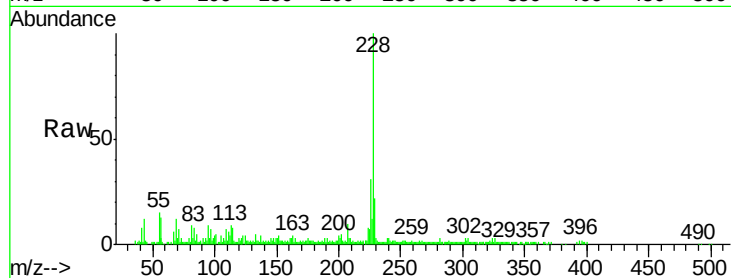
Tgt Ion:228 Resp: 105164

Ion Ratio Lower Upper

228 100

226 30.8 25.2 37.8

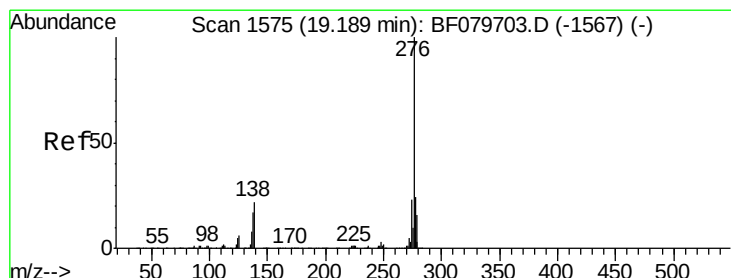
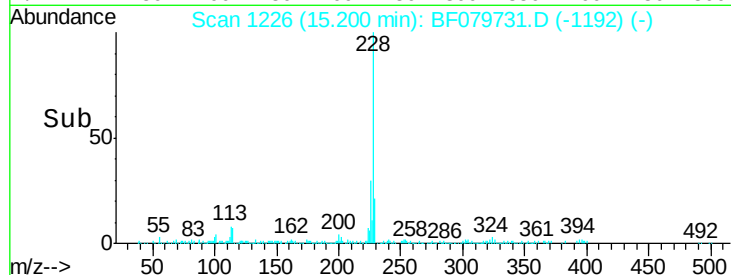
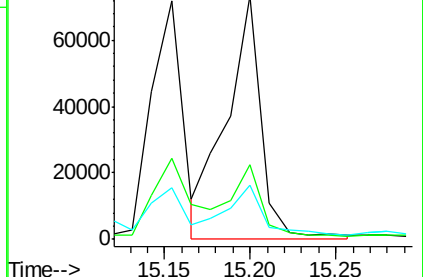
229 22.1 16.2 24.4



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: 3.19 ng m

RT: 19.19 min Scan# 1575

Delta R.T. 0.26 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

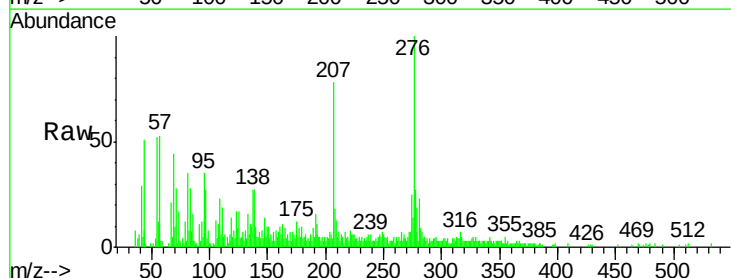
Tgt Ion:276 Resp: 55111

Ion Ratio Lower Upper

276 100

138 7.4 20.8 31.2#

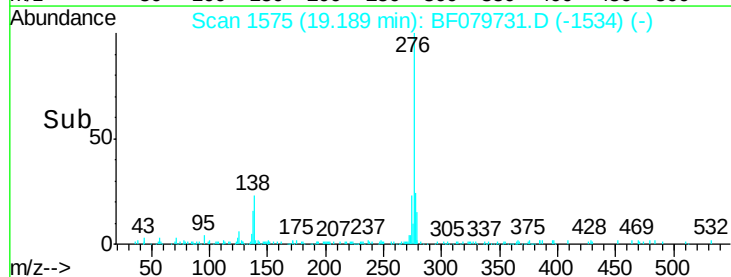
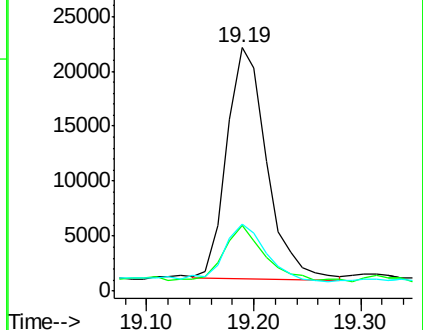
277 7.2 20.0 30.0#

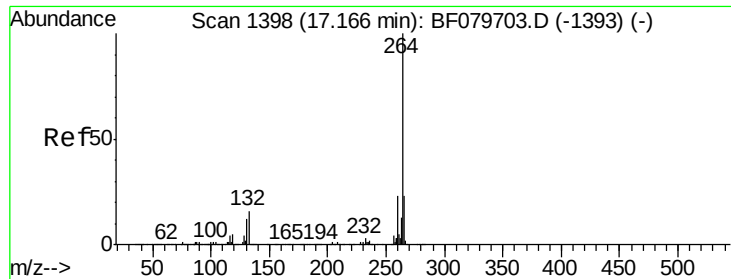


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

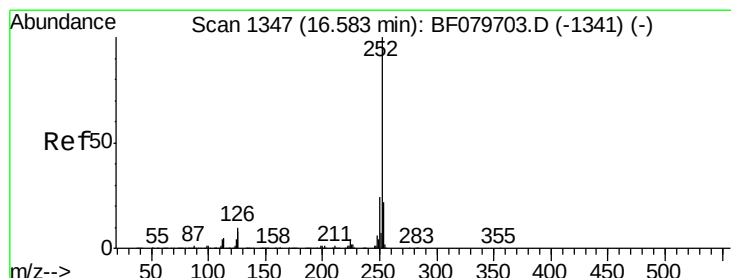
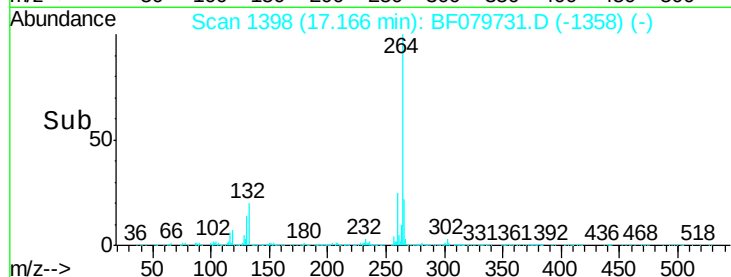
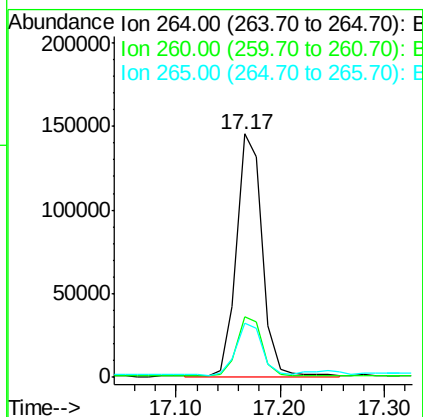
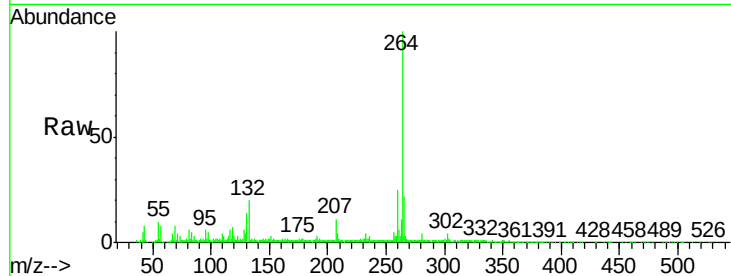




#86
Perylene-d12
Concen: 20.00 ng m
RT: 17.17 min Scan# 1398
Delta R.T. 0.25 min
Lab File: BF079731.D
Acq: 5 Jun 2015 7:08

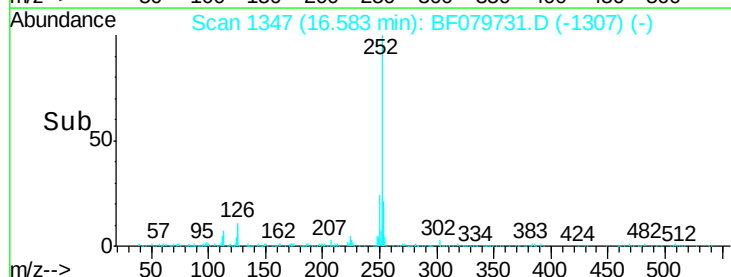
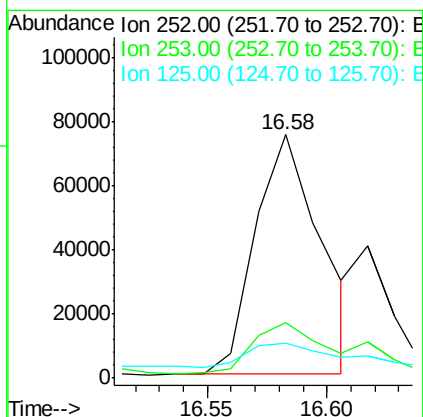
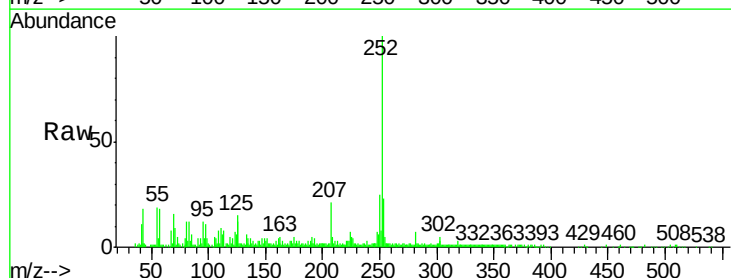
Instrument :
BNA_F
ClientSampleId :
SEC-3.3-SP

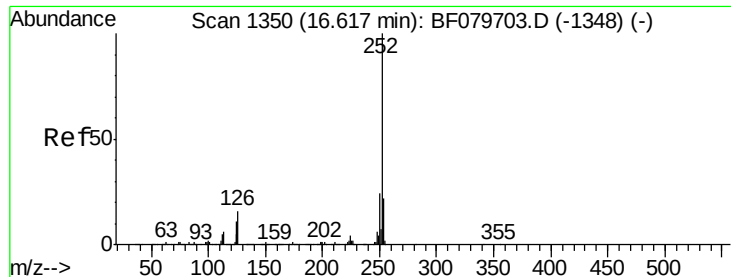
Tgt Ion:264 Resp: 253645
Ion Ratio Lower Upper
264 100
260 25.0 18.6 27.8
265 22.4 18.2 27.4



#87
Benzo(b)fluoranthene
Concen: 8.70 ng m
RT: 16.58 min Scan# 1347
Delta R.T. 0.25 min
Lab File: BF079731.D
Acq: 5 Jun 2015 7:08

Tgt Ion:252 Resp: 142341
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.2
125 14.6 6.5 9.7#





#88

Benzo(k)fluoranthene

Concen: 2.77 ng m

RT: 16.62 min Scan# 1350

Delta R.T. 0.24 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

Instrument :

BNA_F

ClientSampleId :

SEC-3.3-SP

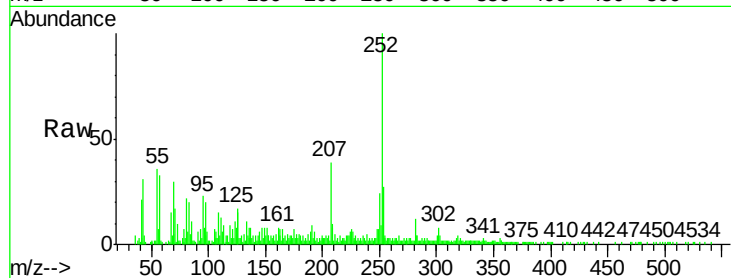
Tgt Ion:252 Resp: 43295

Ion Ratio Lower Upper

252 100

253 27.5 17.8 26.8#

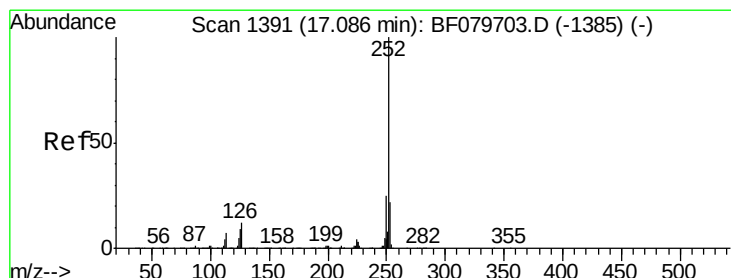
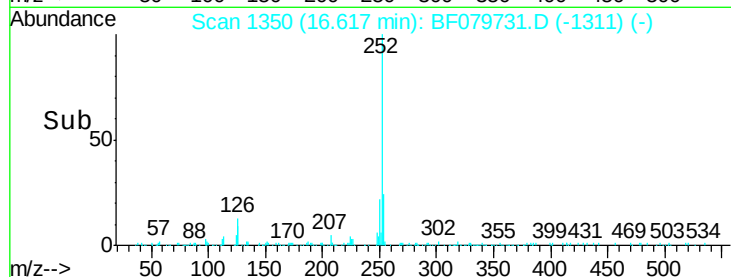
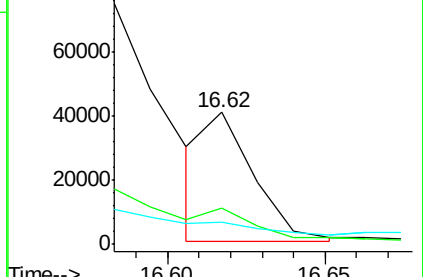
125 16.8 8.4 12.6#



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: 4.99 ng m

RT: 17.09 min Scan# 1391

Delta R.T. 0.25 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

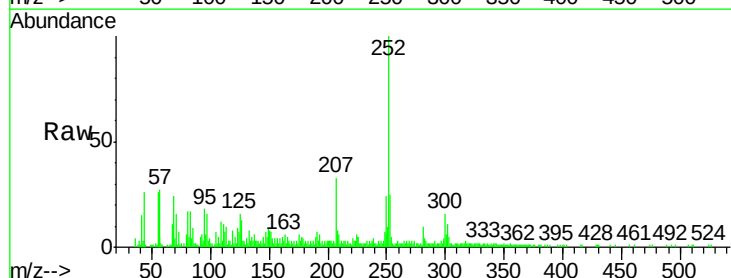
Tgt Ion:252 Resp: 74656

Ion Ratio Lower Upper

252 100

253 25.1 17.6 26.4

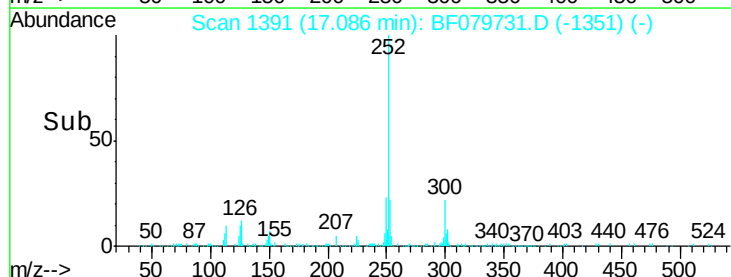
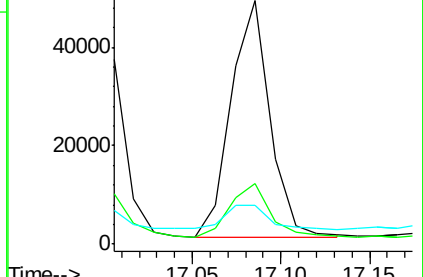
125 15.8 7.4 11.0#

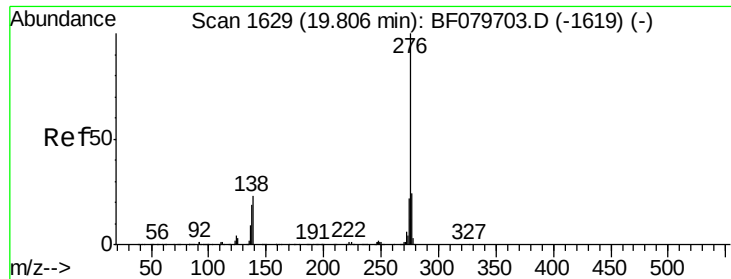


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(g,h,i)perylene

Concen: 3.50 ng m

RT: 19.81 min Scan# 1629

Delta R.T. 0.27 min

Lab File: BF079731.D

Acq: 5 Jun 2015 7:08

Instrument :

BNA_F

ClientSampleId :

SEC-3.3-SP

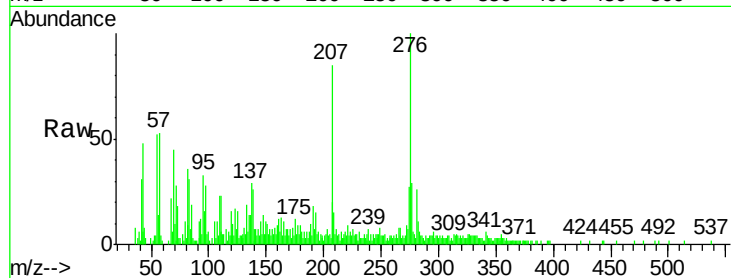
Tgt Ion: 276 Resp: 49386

Ion Ratio Lower Upper

276 100

277 28.9 18.8 28.2#

138 25.8 18.2 27.2



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

