

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060415\
 Data File : BF079733.D
 Acq On : 5 Jun 2015 9:32
 Operator : TP/IZ
 Sample : G2450-09
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.6-SP

Quant Time: Jun 08 03:11:36 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 05 19:33:57 2015
 Response via : Initial Calibration

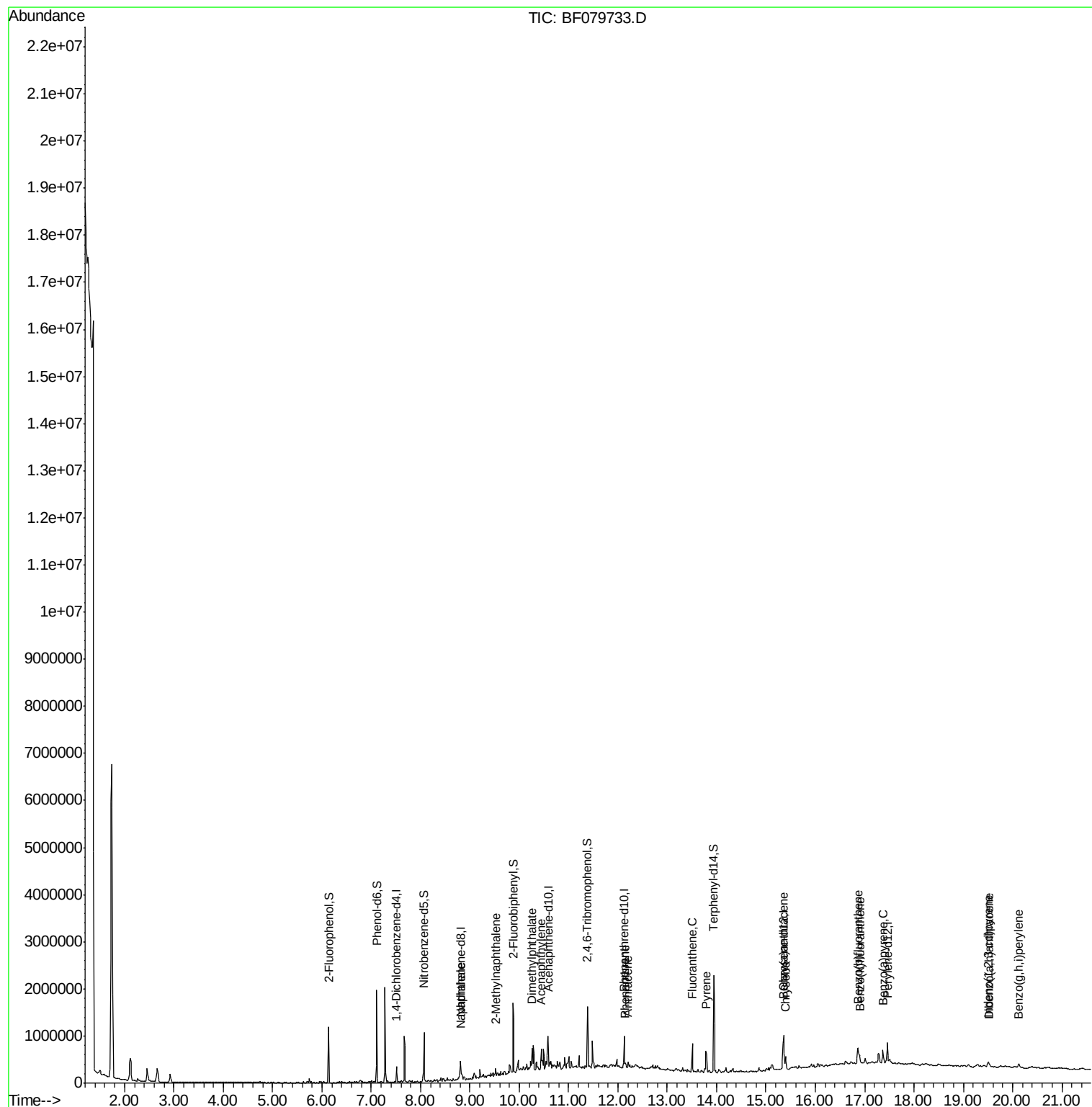
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	54499	20.00	ng	0.00
21) Naphthalene-d8	8.81	136	215815	20.00	ng	0.01
38) Acenaphthene-d10	10.58	164	118741	20.00	ng	0.00
63) Phenanthrene-d10	12.13	188	234738	20.00	ng	0.02
75) Chrysene-d12	15.36	240	269715m	20.00	ng	0.19
86) Perylene-d12	17.46	264	253162m	20.00	ng	0.30
System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	431881	135.88	ng	0.01
7) Phenol-d6	7.11	99	590623	142.75	ng	0.01
23) Nitrobenzene-d5	8.07	82	303385	85.59	ng	0.00
41) 2,4,6-Tribromophenol	11.38	330	139298	130.64	ng	0.01
44) 2-Fluorobiphenyl	9.87	172	628956	76.69	ng	0.00
78) Terphenyl-d14	13.94	244	809856	70.74	ng	0.11
Target Compounds						Qvalue
31) Naphthalene	8.82	128	36148	3.04	ng	97
37) 2-Methylnaphthalene	9.52	142	40994	5.11	ng	98
48) Acenaphthylene	10.44	152	74127	5.58	ng	# 92
49) Dimethylphthalate	10.26	163	80343	8.78	ng	# 99
70) Phenanthrene	12.15	178	51460	3.77	ng	96
71) Anthracene	12.21	178	70322	5.20	ng	97
74) Fluoranthene	13.51	202	272479	18.40	ng	97
77) Pyrene	13.79	202	277065m	16.53	ng	
80) Benzo(a)anthracene	15.35	228	211683m	12.84	ng	
82) Chrysene	15.39	228	165437m	10.72	ng	
85) Indeno(1,2,3-cd)pyrene	19.51	276	97201m	5.58	ng	
87) Benzo(b)fluoranthene	16.87	252	307315m	18.82	ng	
88) Benzo(k)fluoranthene	16.90	252	68406m	4.39	ng	
89) Benzo(a)pyrene	17.37	252	158650m	10.63	ng	
90) Dibenzo(a,h)anthracene	19.53	278	30345m	2.20	ng	
91) Benzo(g,h,i)perylene	20.13	276	81453m	5.78	ng	

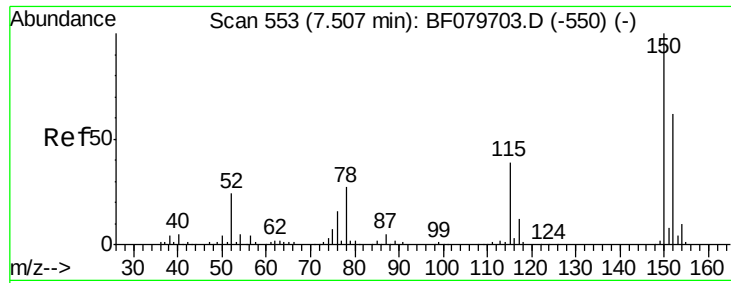
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

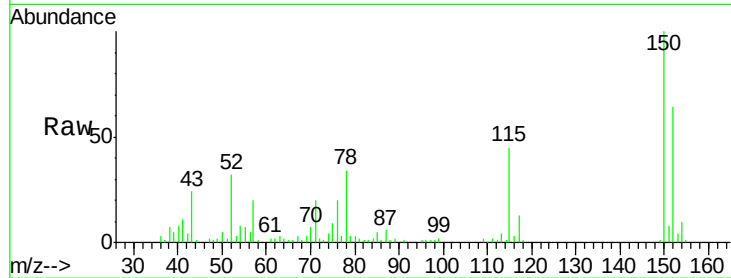
Tgt Ion:152 Resp: 54499

Ion Ratio Lower Upper

152 100

150 156.5 128.1 192.1

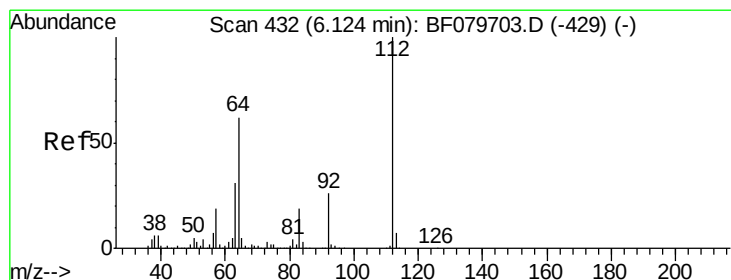
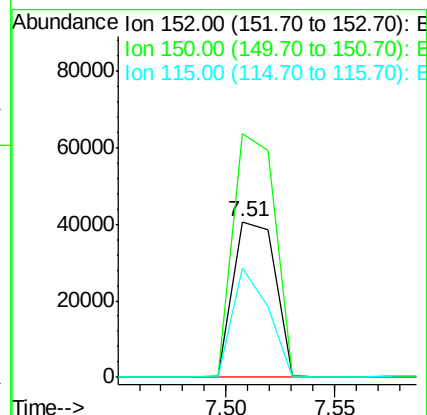
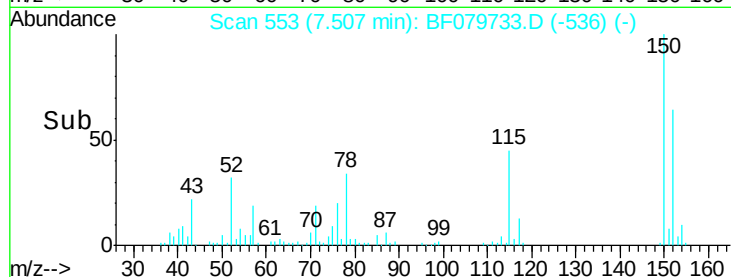
115 70.1 49.7 74.5



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: 135.88 ng

RT: 6.14 min Scan# 433

Delta R.T. 0.01 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

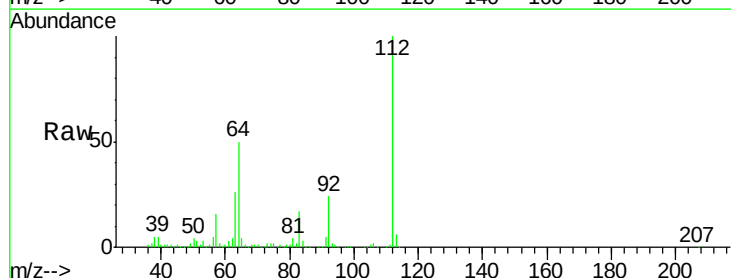
Tgt Ion:112 Resp: 431881

Ion Ratio Lower Upper

112 100

64 49.9 49.6 74.4

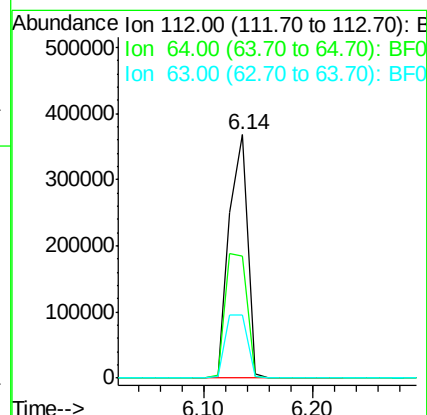
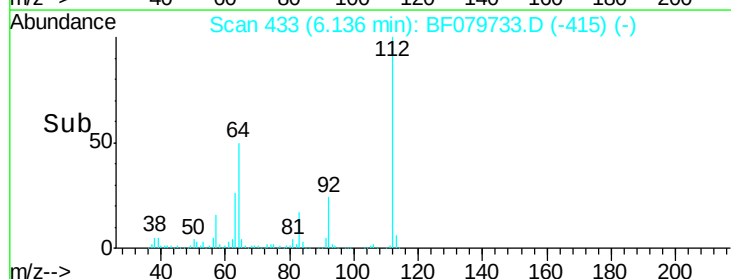
63 25.7 24.9 37.3

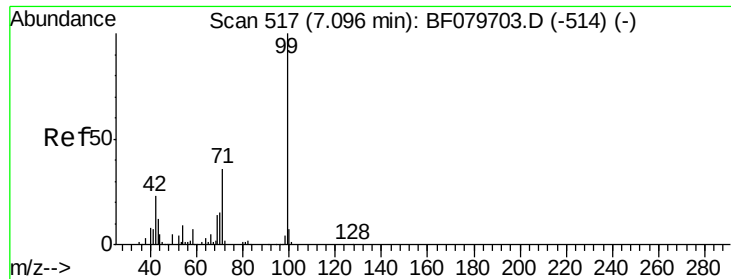


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 142.75 ng

RT: 7.11 min Scan# 518

Delta R.T. 0.01 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

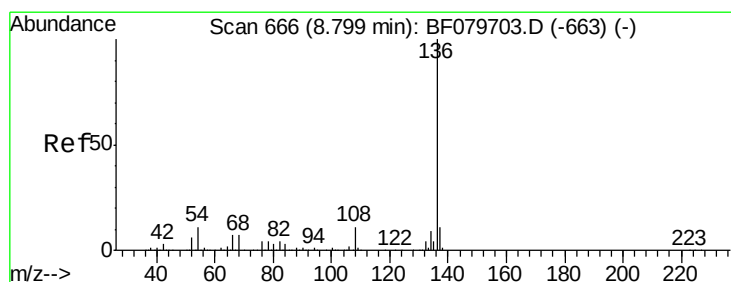
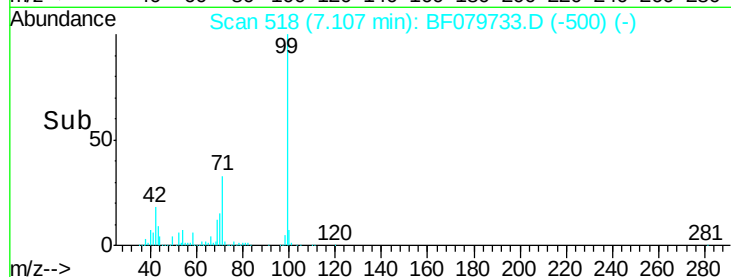
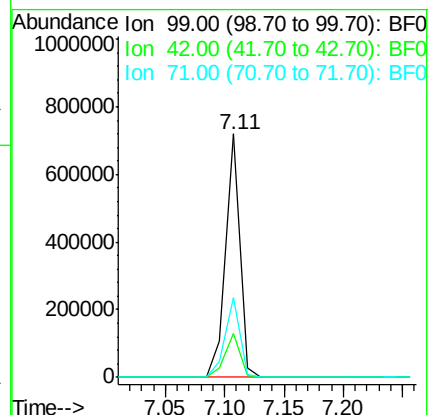
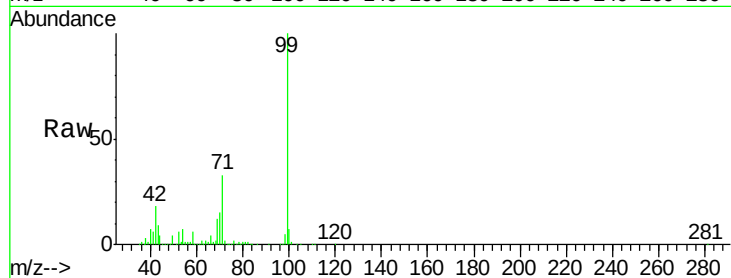
Tgt Ion: 99 Resp: 590623

Ion Ratio Lower Upper

99 100

42 18.2 18.0 27.0

71 32.6 28.4 42.6



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.81 min Scan# 667

Delta R.T. 0.01 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Tgt Ion: 136 Resp: 215815

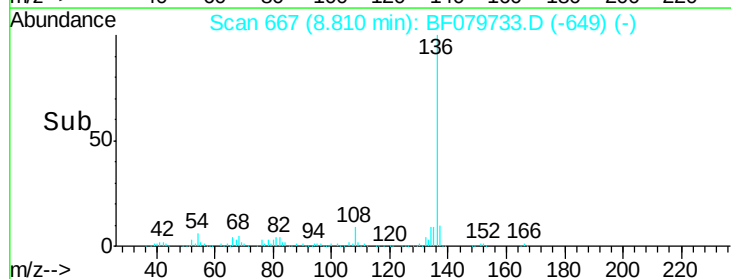
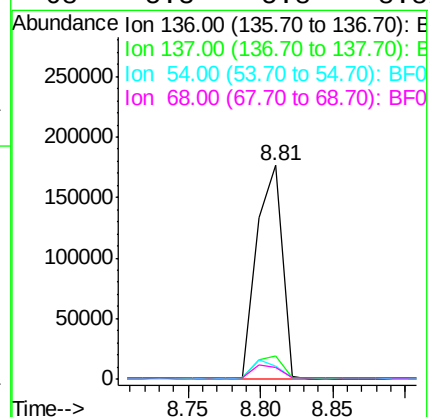
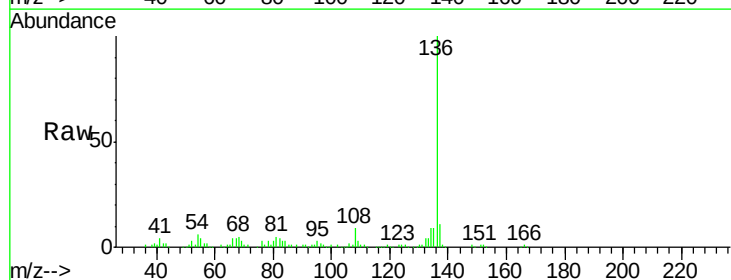
Ion Ratio Lower Upper

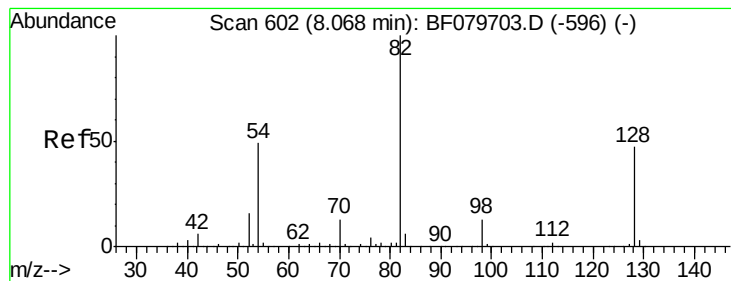
136 100

137 10.7 8.8 13.2

54 6.0 8.7 13.1#

68 5.3 5.8 8.8#





#23

Nitrobenzene-d5

Concen: 85.59 ng

RT: 8.07 min Scan# 602

Delta R.T. 0.00 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

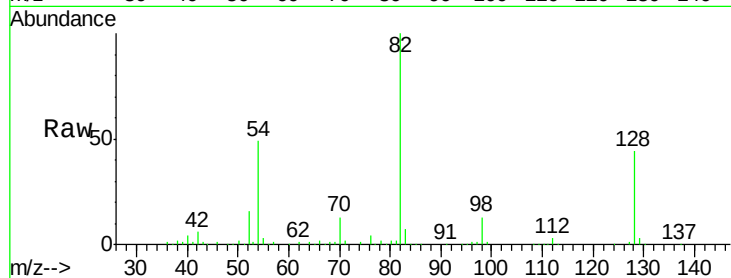
Tgt Ion: 82 Resp: 303385

Ion Ratio Lower Upper

82 100

128 43.9 37.6 56.4

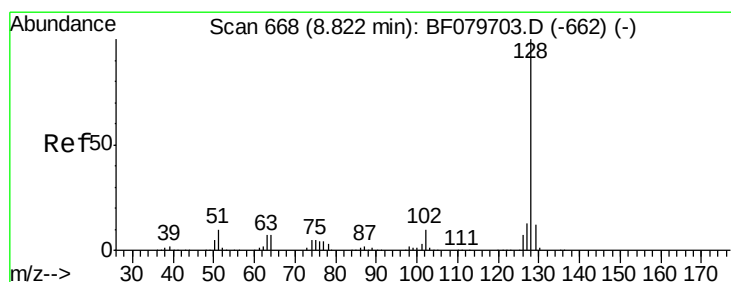
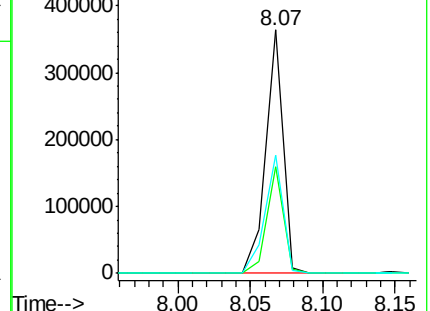
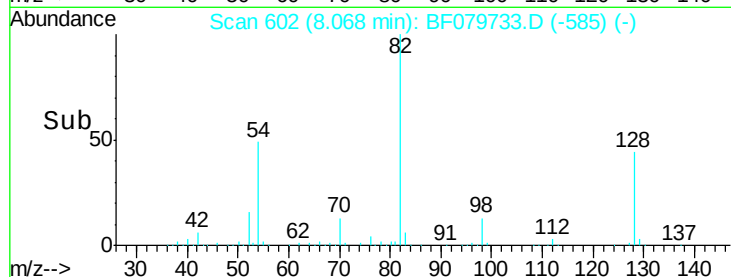
54 48.6 39.4 59.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 3.04 ng

RT: 8.82 min Scan# 668

Delta R.T. 0.00 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

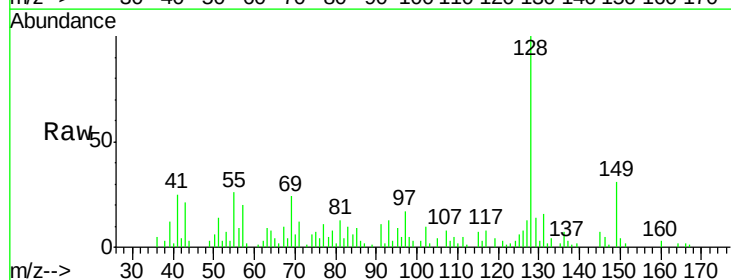
Tgt Ion: 128 Resp: 36148

Ion Ratio Lower Upper

128 100

129 13.6 9.4 14.2

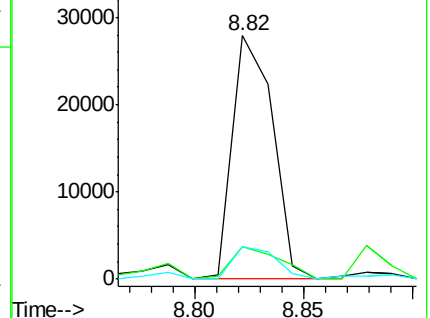
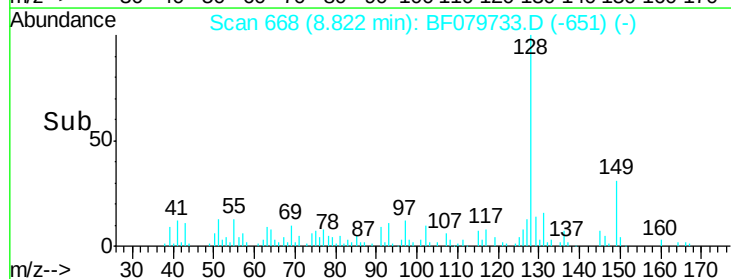
127 13.1 10.7 16.1

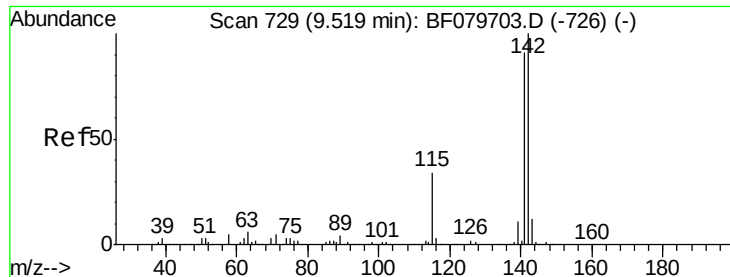


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

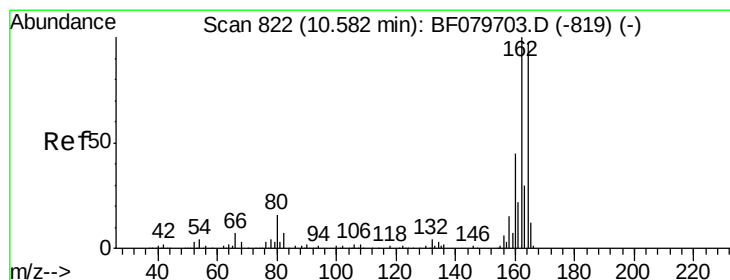
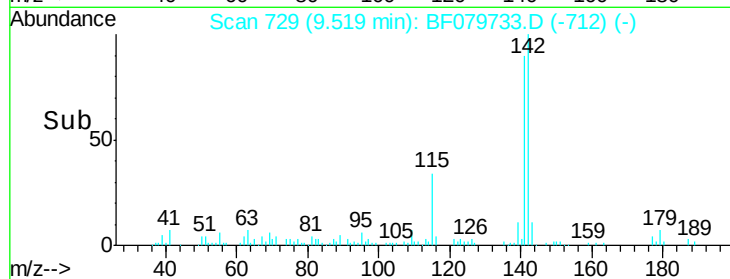
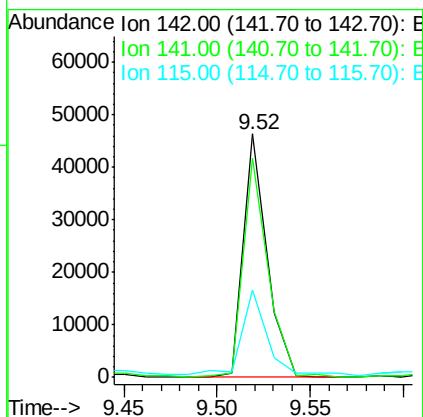
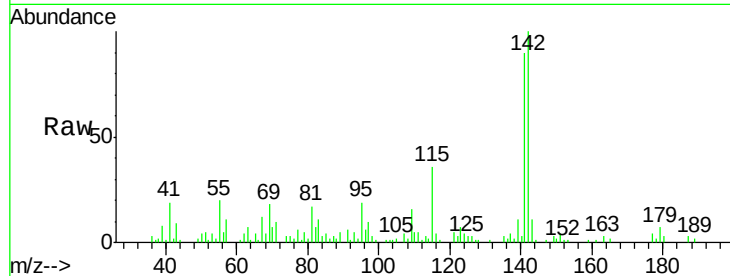




#37
2-Methylnaphthalene
Concen: 5.11 ng
RT: 9.52 min Scan# 729
Delta R.T. 0.00 min
Lab File: BF079733.D
Acq: 5 Jun 2015 9:32

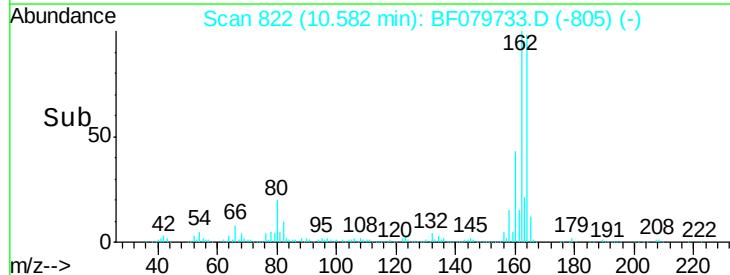
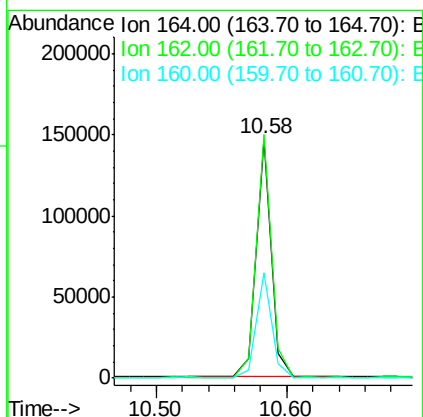
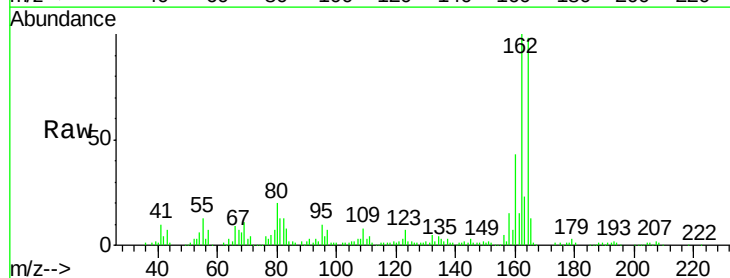
Instrument :
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SEC-3.6-SP

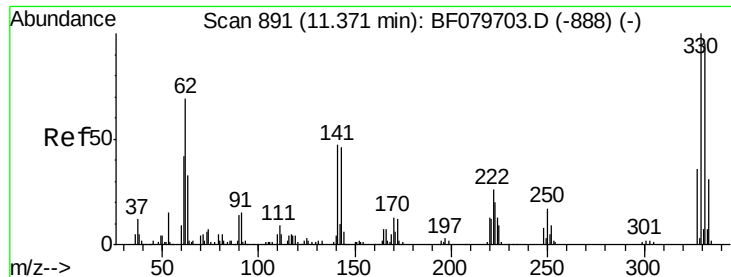
Tgt Ion:142 Resp: 40994
Ion Ratio Lower Upper
142 100
141 90.1 72.8 109.2
115 35.8 26.9 40.3



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.58 min Scan# 822
Delta R.T. 0.00 min
Lab File: BF079733.D
Acq: 5 Jun 2015 9:32

Tgt Ion:164 Resp: 118741
Ion Ratio Lower Upper
164 100
162 101.8 82.6 123.8
160 43.8 36.8 55.2

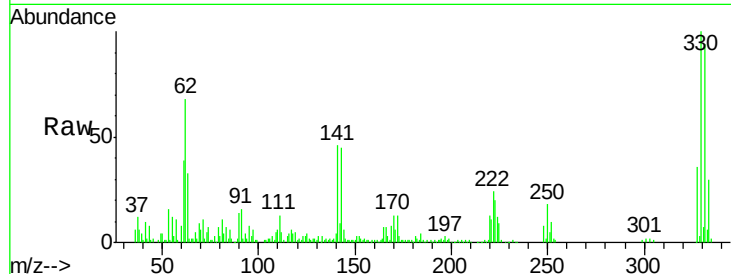




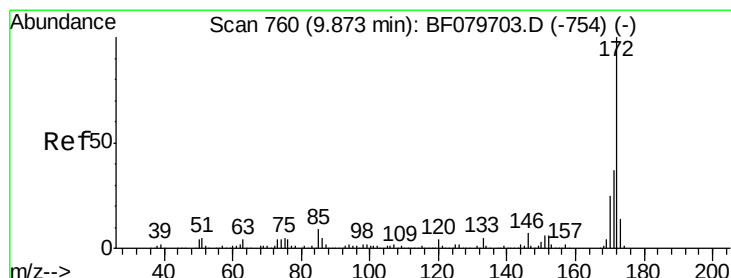
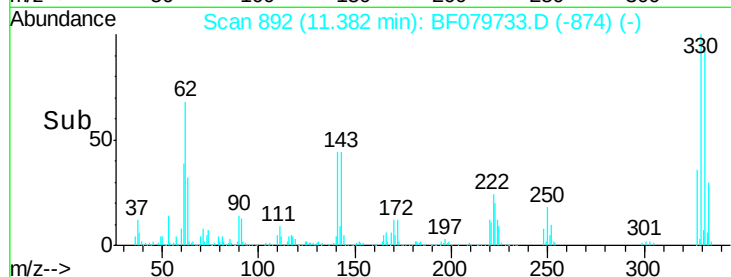
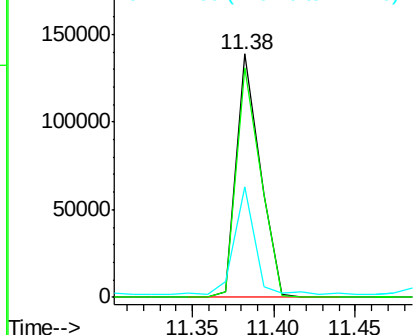
#41
 2,4,6-Tribromophenol
 Concen: 130.64 ng
 RT: 11.38 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: BF079733.D
 Acq: 5 Jun 2015 9:32

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.6-SP

Tgt Ion:330 Resp: 139298
 Ion Ratio Lower Upper
 330 100
 332 95.8 77.4 116.0
 141 38.3 30.2 45.2

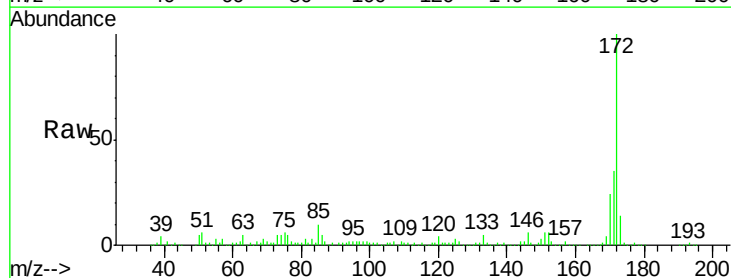


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

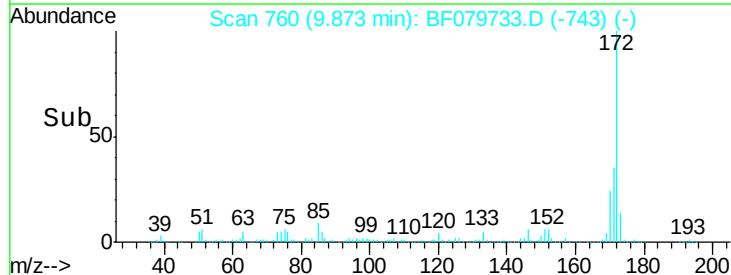
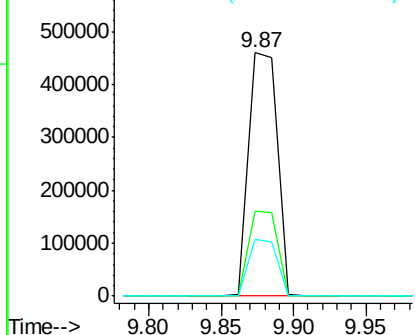


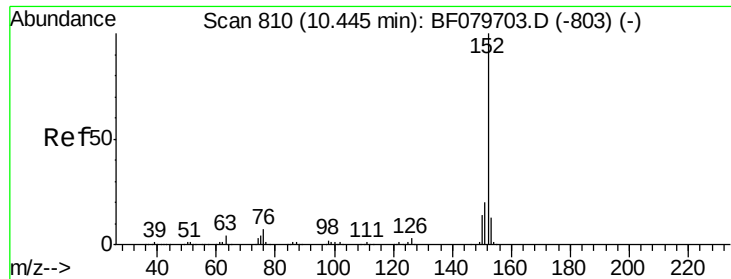
#44
 2-Fluorobiphenyl
 Concen: 76.69 ng
 RT: 9.87 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: BF079733.D
 Acq: 5 Jun 2015 9:32

Tgt Ion:172 Resp: 628956
 Ion Ratio Lower Upper
 172 100
 171 34.9 29.4 44.0
 170 23.5 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: 5.58 ng

RT: 10.44 min Scan# 810

Delta R.T. 0.00 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

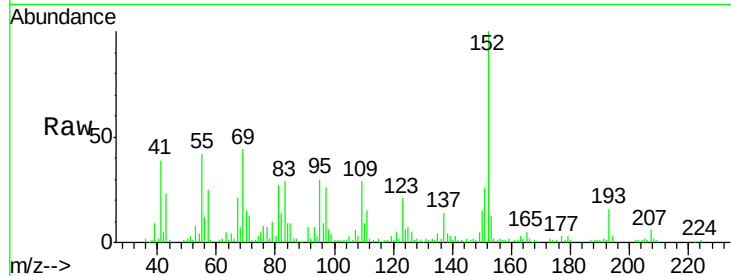
Tgt Ion:152 Resp: 74127

Ion Ratio Lower Upper

152 100

151 26.0 16.2 24.4#

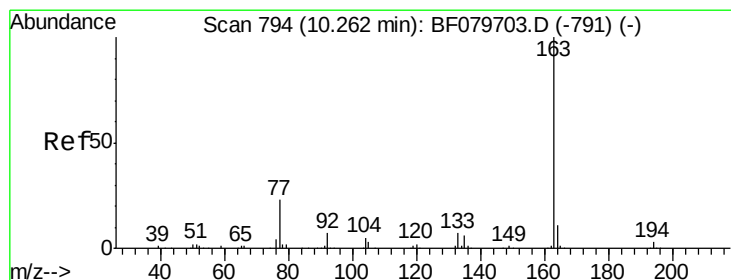
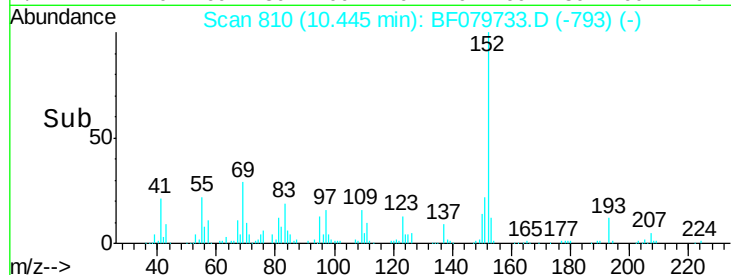
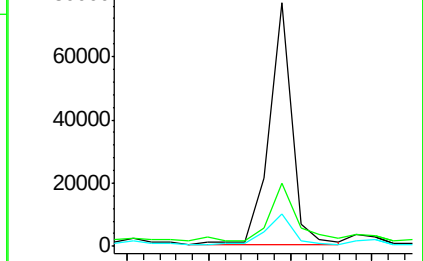
153 13.5 10.4 15.6



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: 8.78 ng

RT: 10.26 min Scan# 794

Delta R.T. 0.00 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

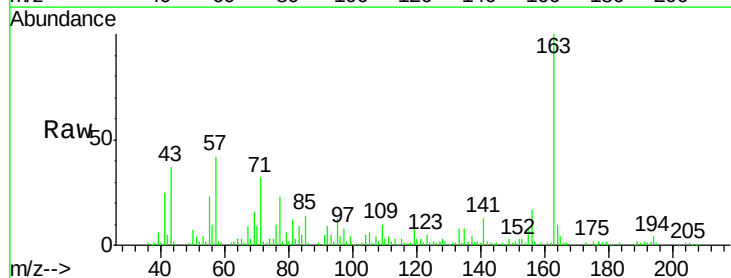
Tgt Ion:163 Resp: 80343

Ion Ratio Lower Upper

163 100

194 3.9 2.6 3.8#

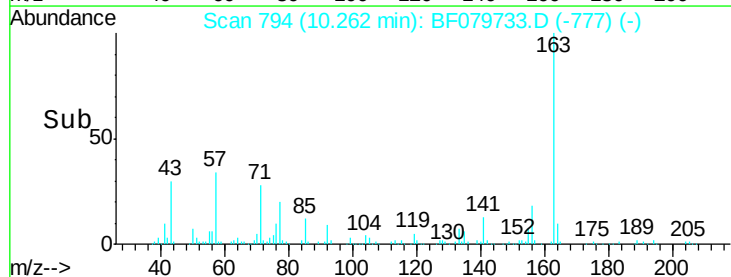
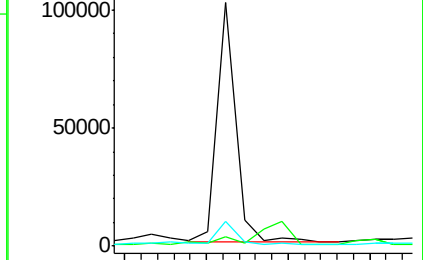
164 10.3 8.5 12.7

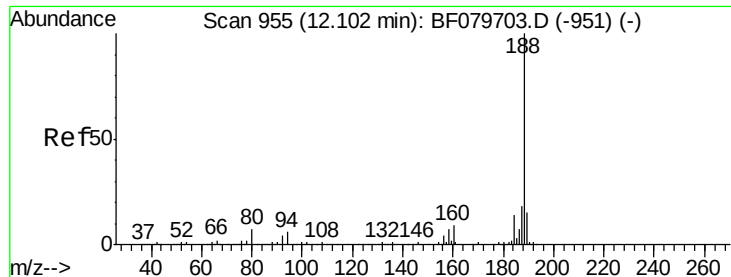


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

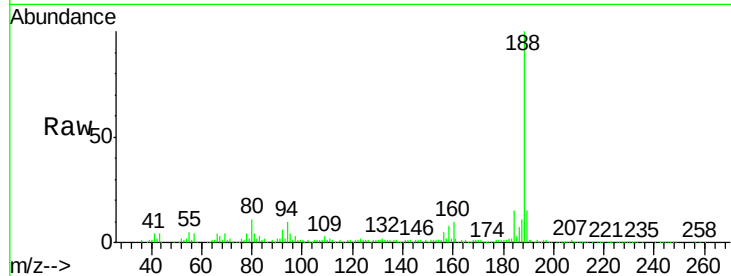




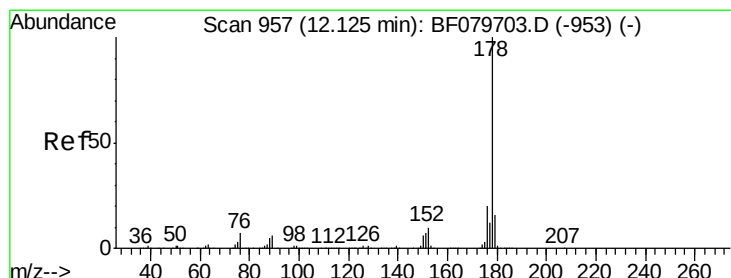
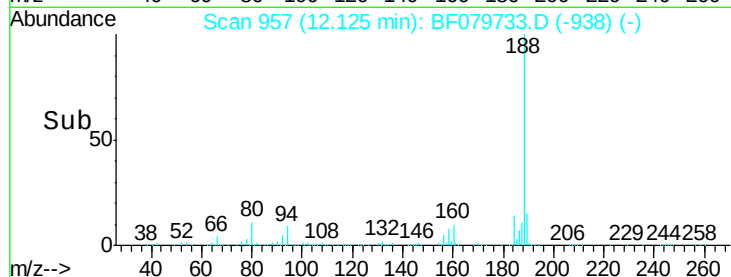
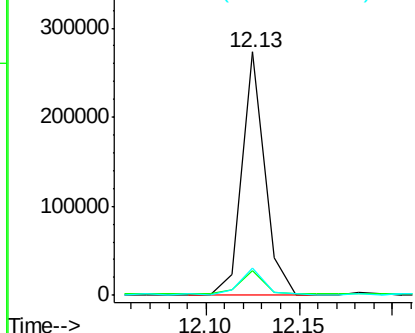
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.13 min Scan# 957
Delta R.T. 0.02 min
Lab File: BF079733.D
Acq: 5 Jun 2015 9:32

Instrument :
BNA_F
ClientSampleId :
SEC-3.6-SP

Tgt Ion:188 Resp: 234738
Ion Ratio Lower Upper
188 100
94 9.9 5.0 7.4#
80 11.2 5.3 7.9#

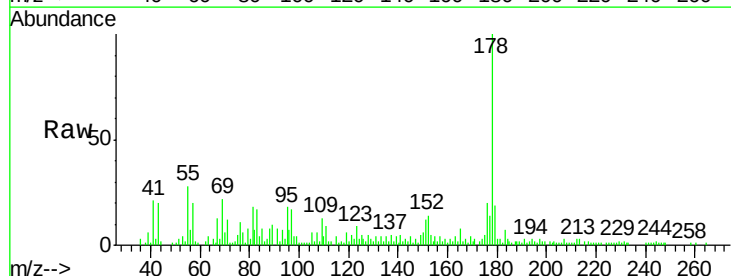


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

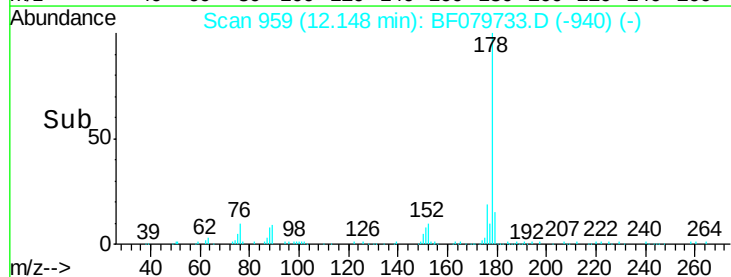
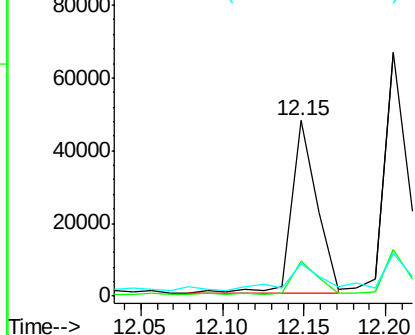


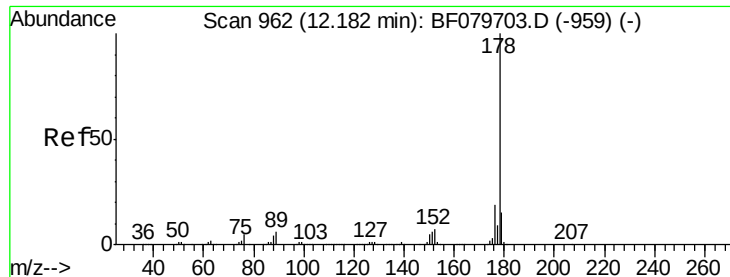
#70
Phenanthrene
Concen: 3.77 ng
RT: 12.15 min Scan# 959
Delta R.T. 0.02 min
Lab File: BF079733.D
Acq: 5 Jun 2015 9:32

Tgt Ion:178 Resp: 51460
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 18.6 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

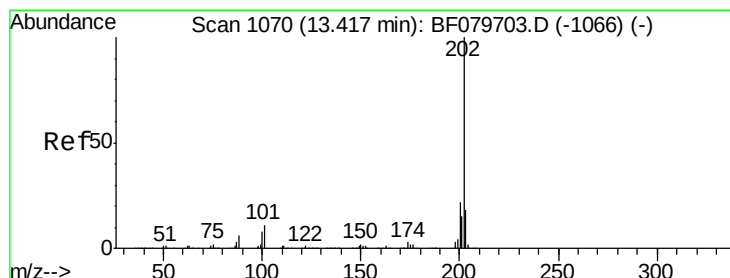
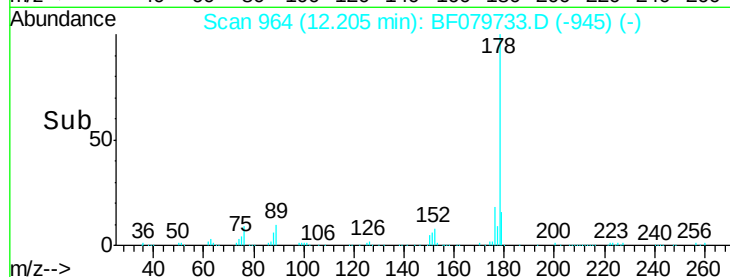
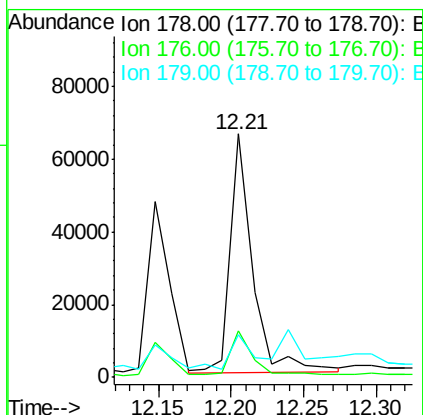
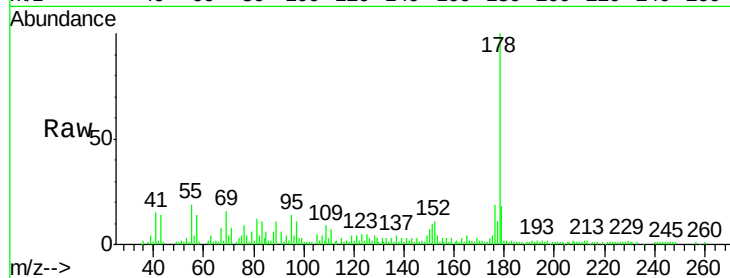




#71
 Anthracene
 Concen: 5.20 ng
 RT: 12.21 min Scan# 964
 Delta R.T. 0.02 min
 Lab File: BF079733.D
 Acq: 5 Jun 2015 9:32

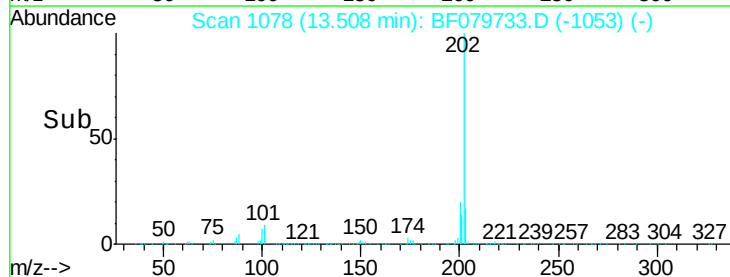
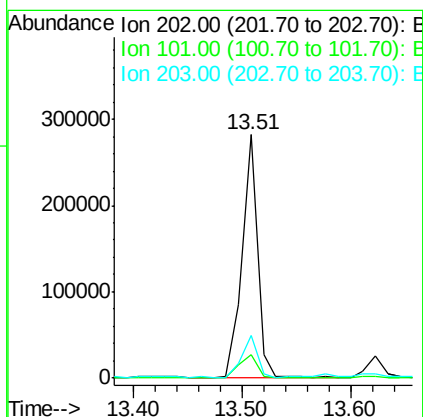
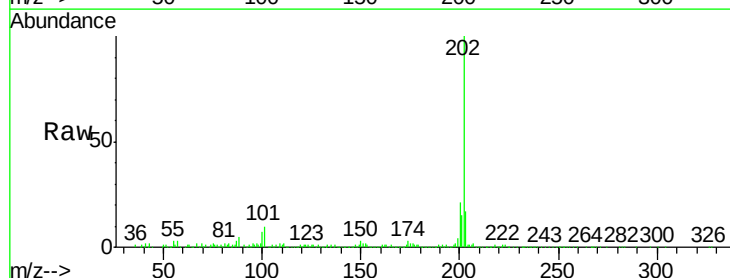
Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.6-SP

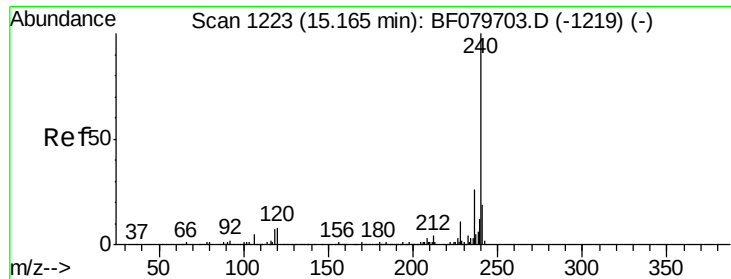
Tgt Ion:178 Resp: 70322
 Ion Ratio Lower Upper
 178 100
 176 19.0 14.8 22.2
 179 17.7 12.2 18.2



#74
 Fluoranthene
 Concen: 18.40 ng
 RT: 13.51 min Scan# 1078
 Delta R.T. 0.09 min
 Lab File: BF079733.D
 Acq: 5 Jun 2015 9:32

Tgt Ion:202 Resp: 272479
 Ion Ratio Lower Upper
 202 100
 101 9.6 0.0 31.3
 203 17.5 0.0 38.4





#75

Chrysene-d12

Concen: 20.00 ng m

RT: 15.36 min Scan# 1240

Delta R.T. 0.19 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

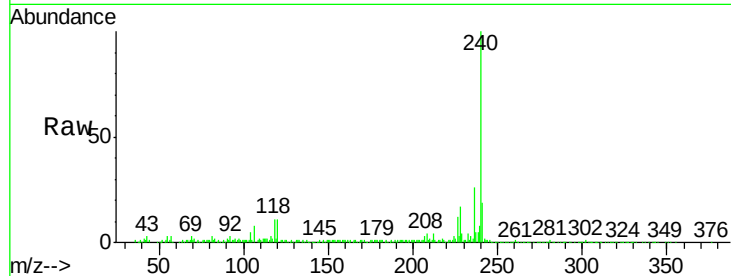
Tgt Ion:240 Resp: 269715

Ion Ratio Lower Upper

240 100

120 11.3 6.2 9.2#

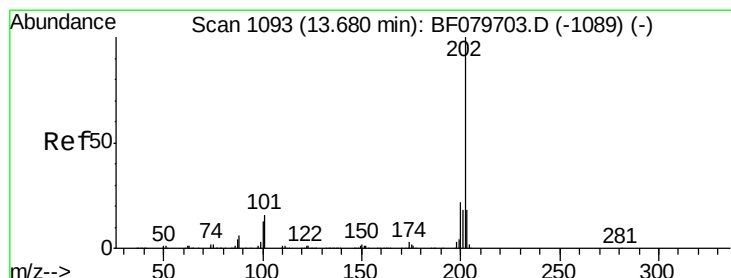
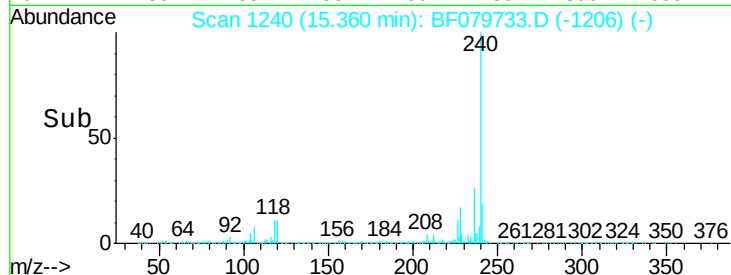
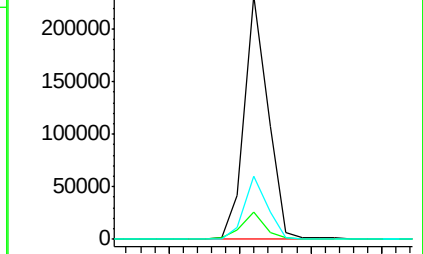
236 26.1 21.0 31.4



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: 16.53 ng m

RT: 13.79 min Scan# 1103

Delta R.T. 0.11 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

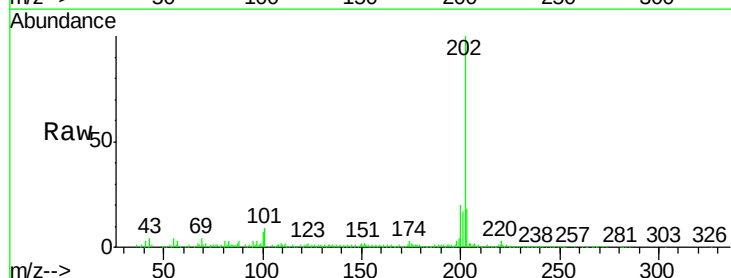
Tgt Ion:202 Resp: 277065

Ion Ratio Lower Upper

202 100

200 20.3 17.5 26.3

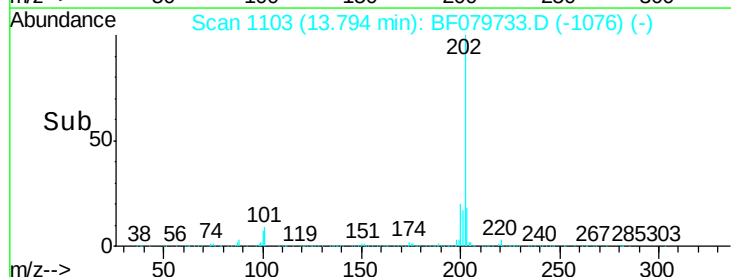
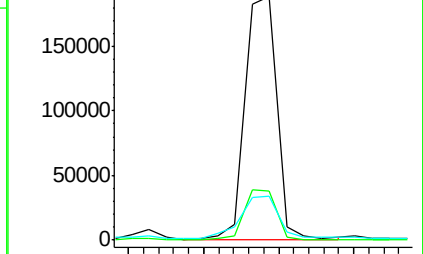
203 18.3 14.8 22.2

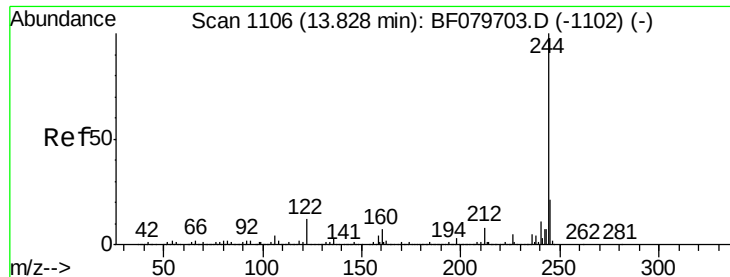


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 70.74 ng

RT: 13.94 min Scan# 1116

Delta R.T. 0.11 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

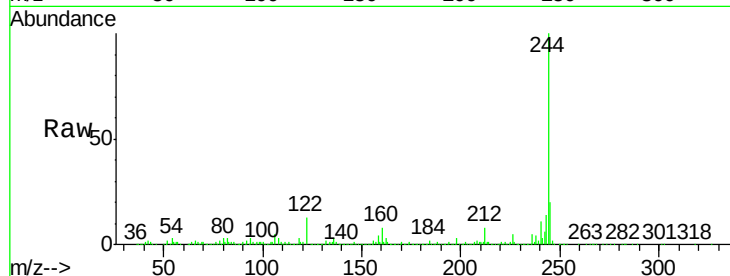
Tgt Ion:244 Resp: 809856

Ion Ratio Lower Upper

244 100

212 7.5 6.1 9.1

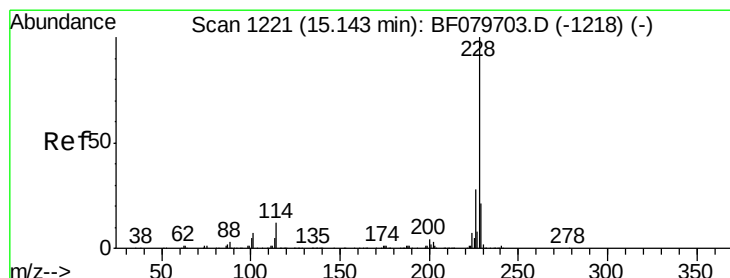
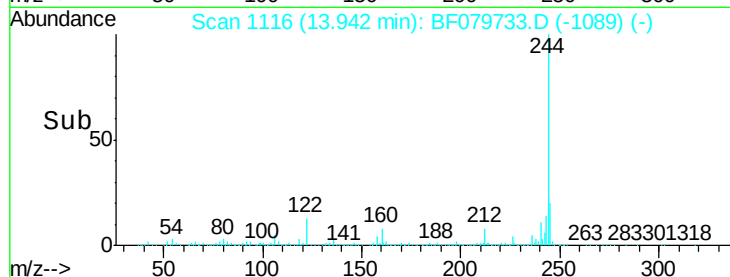
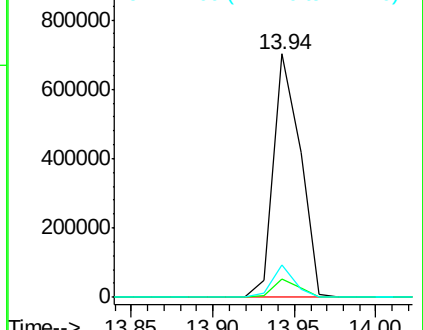
122 13.1 9.3 13.9



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: 12.84 ng m

RT: 15.35 min Scan# 1239

Delta R.T. 0.21 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

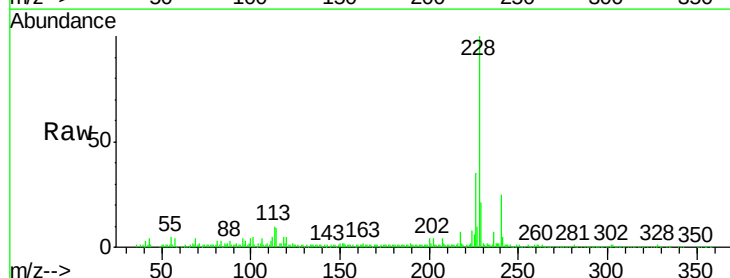
Tgt Ion:228 Resp: 211683

Ion Ratio Lower Upper

228 100

226 34.8 22.2 33.4#

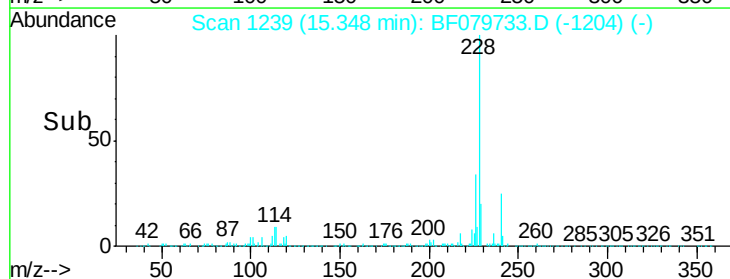
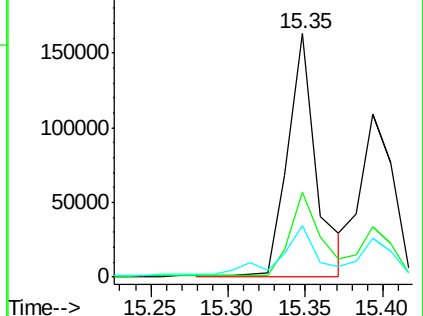
229 21.0 16.6 25.0

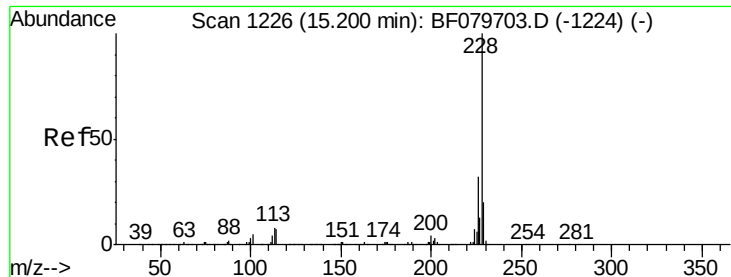


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 10.72 ng m

RT: 15.39 min Scan# 1243

Delta R.T. 0.19 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

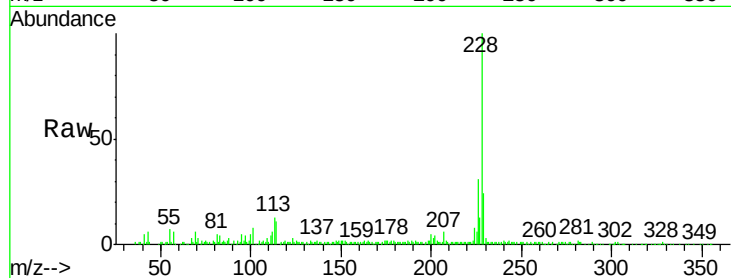
Tgt Ion:228 Resp: 165437

Ion Ratio Lower Upper

228 100

226 30.9 25.2 37.8

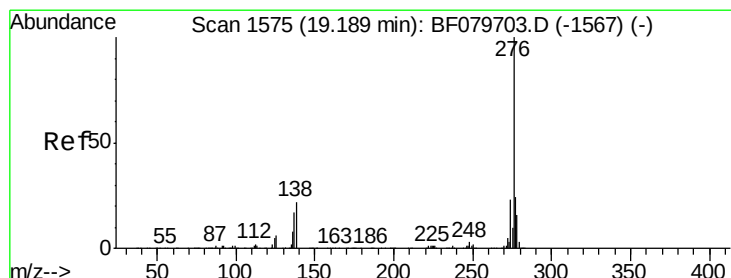
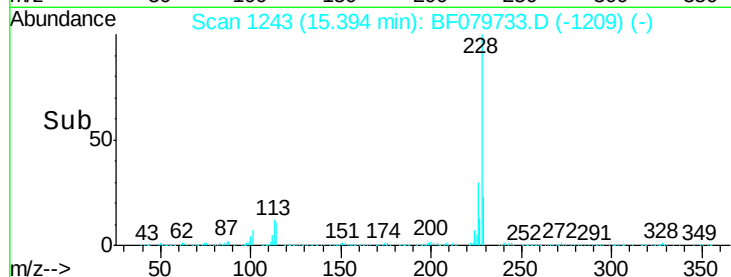
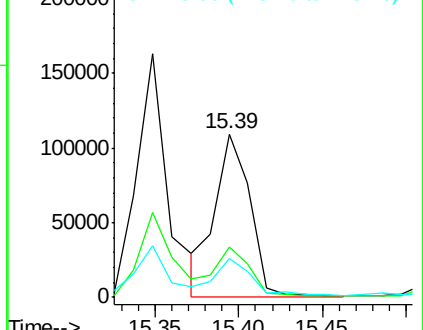
229 23.9 16.2 24.4



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: 5.58 ng m

RT: 19.51 min Scan# 1603

Delta R.T. 0.32 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

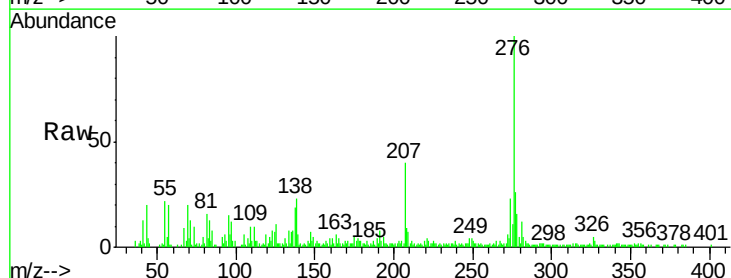
Tgt Ion:276 Resp: 97201

Ion Ratio Lower Upper

276 100

138 1.5 20.8 31.2#

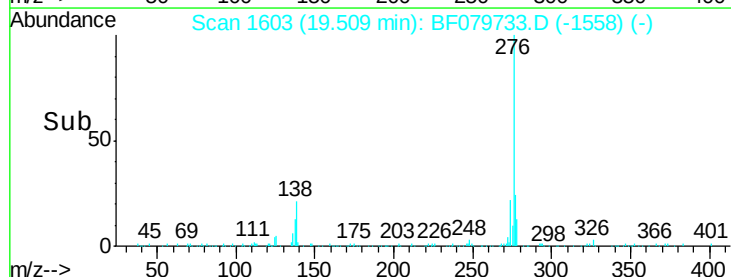
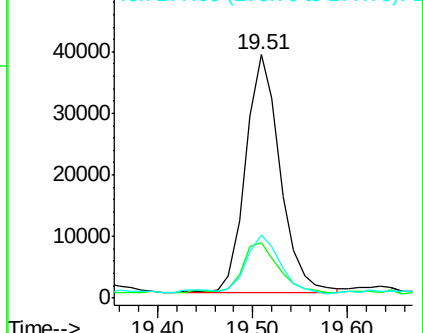
277 0.0 20.0 30.0#

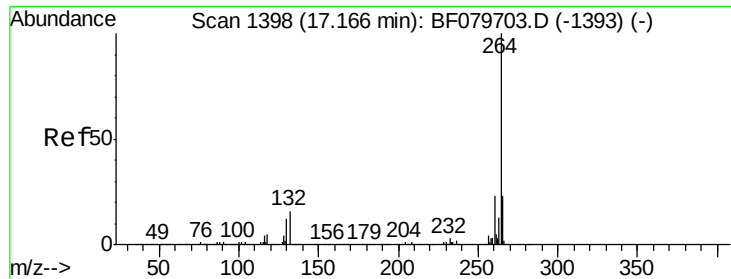


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

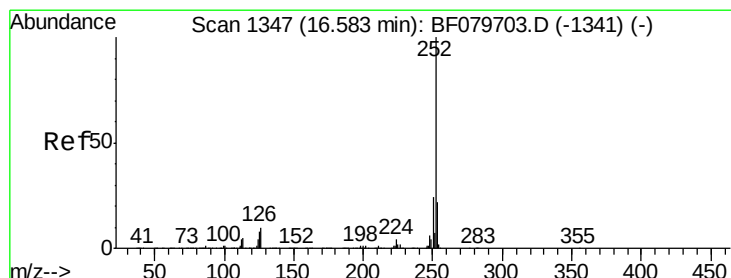
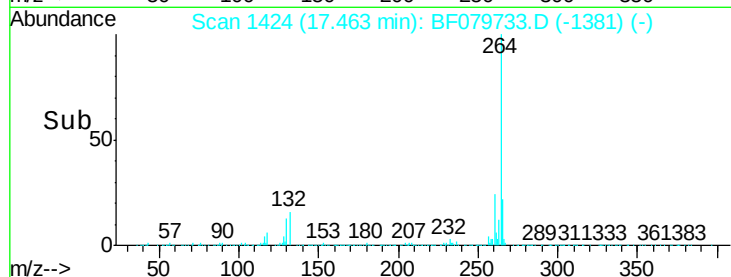
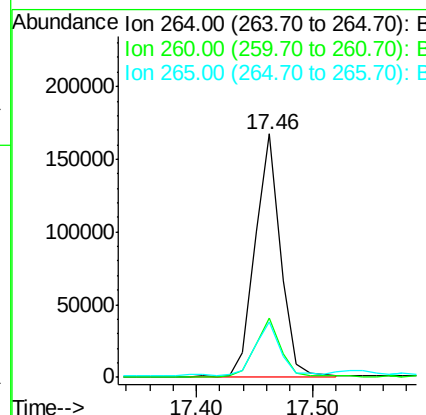
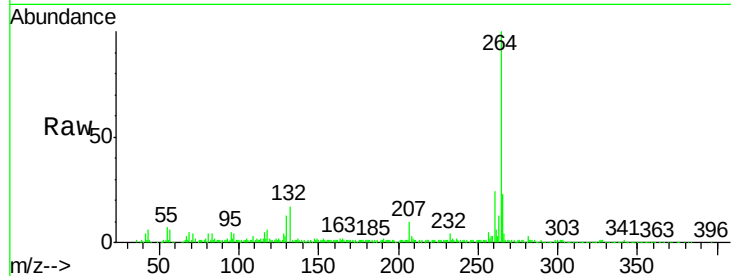




#86
Perylene-d12
Concen: 20.00 ng m
RT: 17.46 min Scan# 1424
Delta R.T. 0.30 min
Lab File: BF079733.D
Acq: 5 Jun 2015 9:32

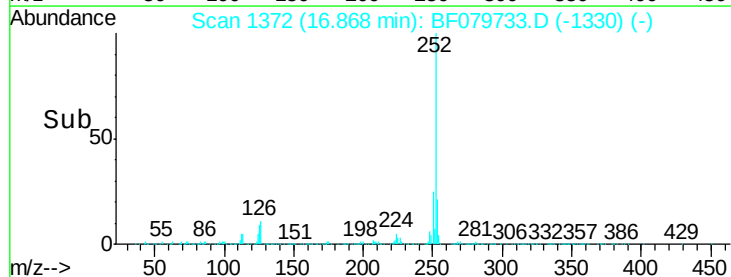
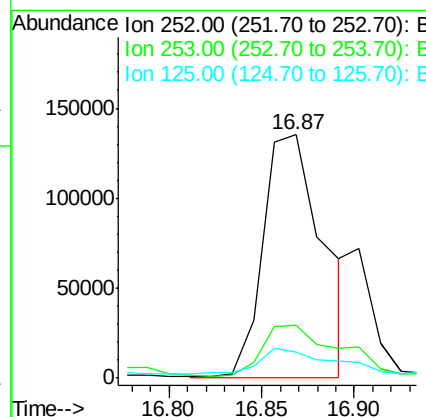
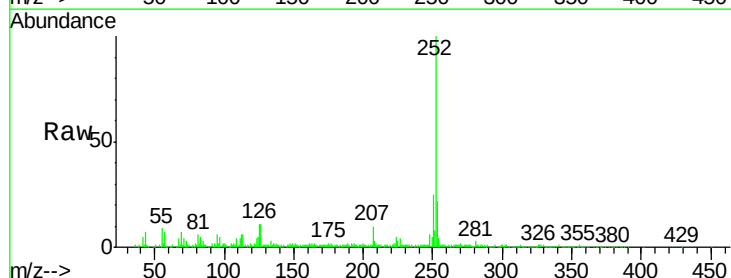
Instrument :
BNA_F
ClientSampleId :
SEC-3.6-SP

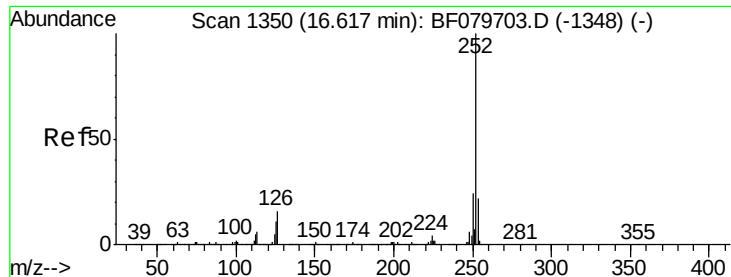
Tgt Ion: 264 Resp: 253162
Ion Ratio Lower Upper
264 100
260 24.5 18.6 27.8
265 23.0 18.2 27.4



#87
Benzo(b)fluoranthene
Concen: 18.82 ng m
RT: 16.87 min Scan# 1372
Delta R.T. 0.29 min
Lab File: BF079733.D
Acq: 5 Jun 2015 9:32

Tgt Ion: 252 Resp: 307315
Ion Ratio Lower Upper
252 100
253 22.0 17.4 26.2
125 10.8 6.5 9.7#





#88

Benzo(k)fluoranthene

Concen: 4.39 ng m

RT: 16.90 min Scan# 1375

Delta R.T. 0.29 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

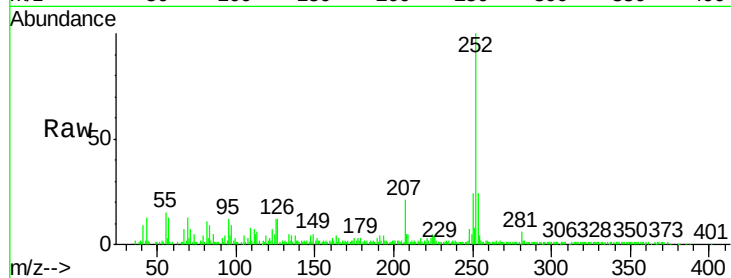
Tgt Ion:252 Resp: 68406

Ion Ratio Lower Upper

252 100

253 24.4 17.8 26.8

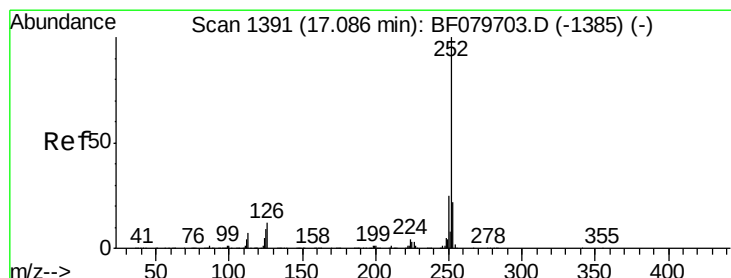
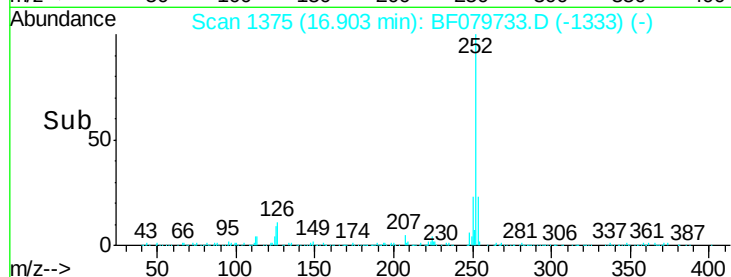
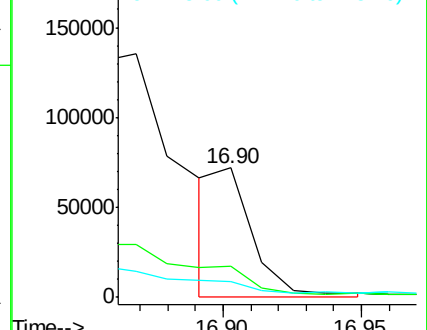
125 12.0 8.4 12.6



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: 10.63 ng m

RT: 17.37 min Scan# 1416

Delta R.T. 0.29 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

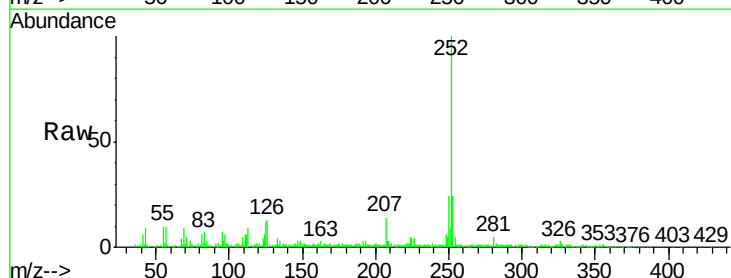
Tgt Ion:252 Resp: 158650

Ion Ratio Lower Upper

252 100

253 23.5 17.6 26.4

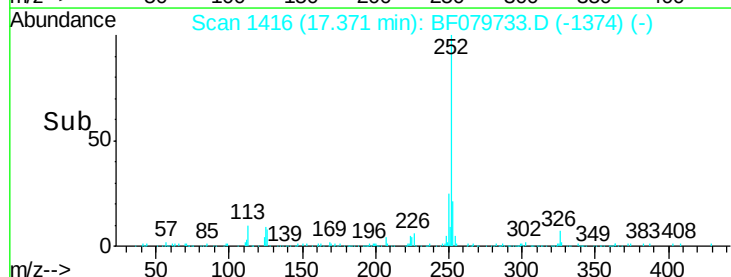
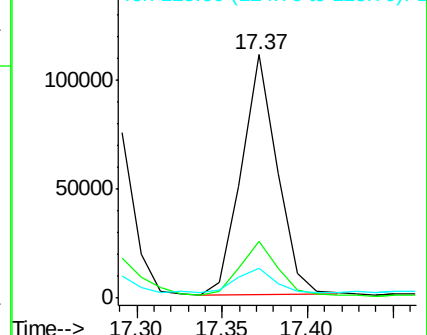
125 12.3 7.4 11.0#

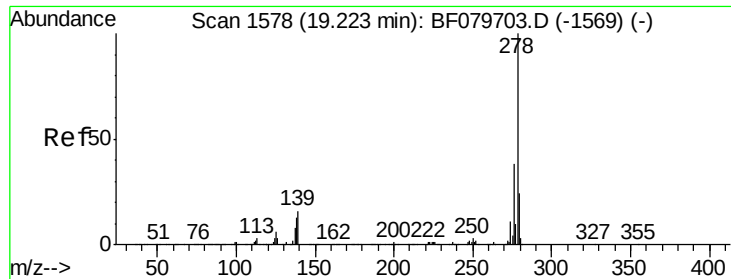


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.20 ng m

RT: 19.53 min Scan# 1605

Delta R.T. 0.31 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

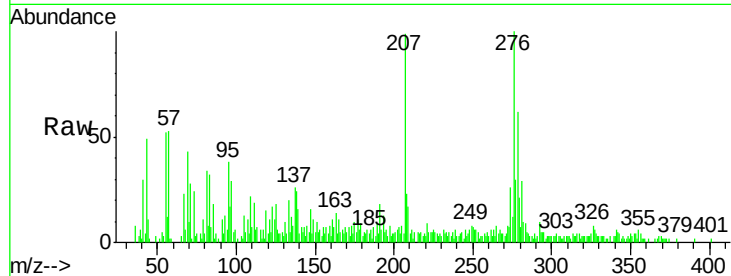
Tgt Ion:278 Resp: 30345

Ion Ratio Lower Upper

278 100

139 25.4 12.7 19.1#

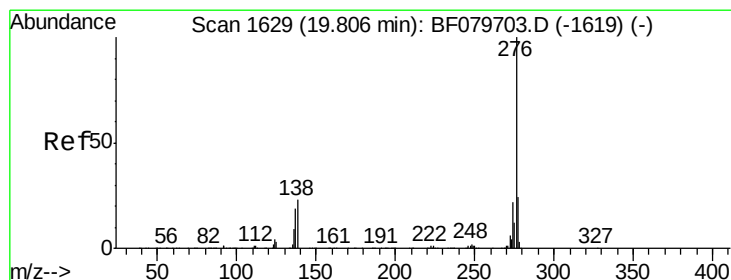
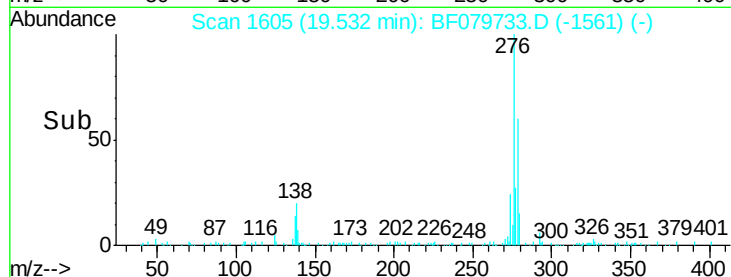
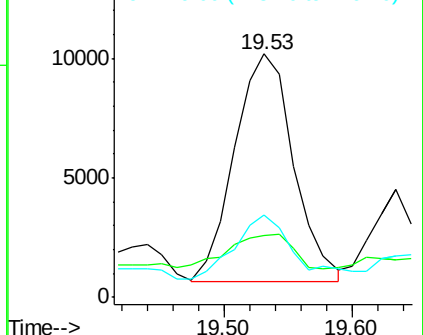
279 33.6 19.4 29.2#



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: 5.78 ng m

RT: 20.13 min Scan# 1657

Delta R.T. 0.32 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

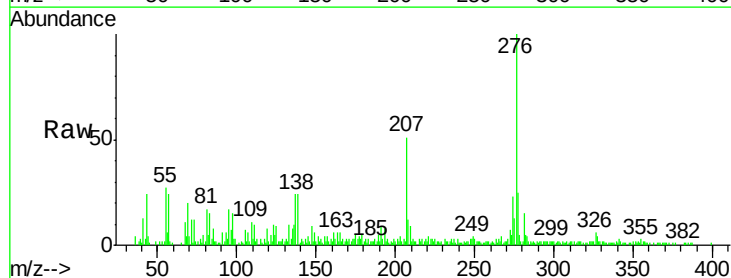
Tgt Ion:276 Resp: 81453

Ion Ratio Lower Upper

276 100

277 25.2 18.8 28.2

138 24.2 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

