

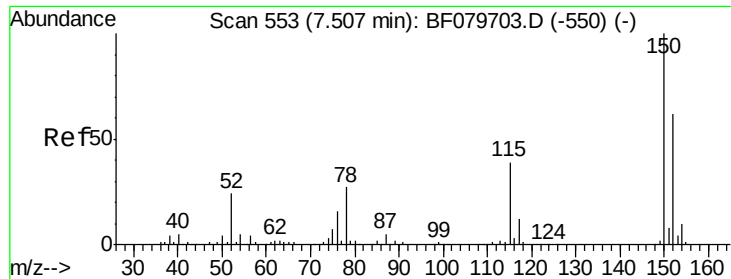
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060415\
 Data File : BF079733.D
 Acq On : 5 Jun 2015 9:32
 Operator : TP/IZ
 Sample : G2450-09
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.6-SP

Quant Time: Jun 08 00:51:21 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	0.00	240	0	0.00	ng	-15.17
86) Perylene-d12	17.17	264	751	20.00	ng	0.00
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	0.00	ng	0.11
Target Compounds						Qvalue
18) Hexachloroethane	8.04	117	3186	2.29	ng	# 1
31) Naphthalene	8.82	128	36148	3.04	ng	97
35) Caprolactam	9.20	113	4398	4.78	ng	# 1
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
50) 2,6-Dinitrotoluene	10.30	165	3101	4.73	ng	# 35
52) 3-Nitroaniline	10.54	138	8985	4.87	ng	# 8
55) 4-Nitrophenol	10.67	139	3250	2.09	ng	# 1
64) 4,6-Dinitro-2-methylphenol	11.16	198	356	3.66	ng	# 1
65) n-Nitrosodiphenylamine	11.24	169	17382	2.35	ng	# 38
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
87) Benzo(b)fluoranthene	16.54	252	1196	24.69	ng	# 1
88) Benzo(k)fluoranthene	16.64	252	4099	88.67	ng	# 1
89) Benzo(a)pyrene	17.02	252	59621	1347.08	ng	# 87
90) Dibenzo(a,h)anthracene	19.26	278	22746	556.31	ng	# 87
91) Benzo(g,h,i)perylene	19.85	276	7097	169.75	ng	# 29

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



#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

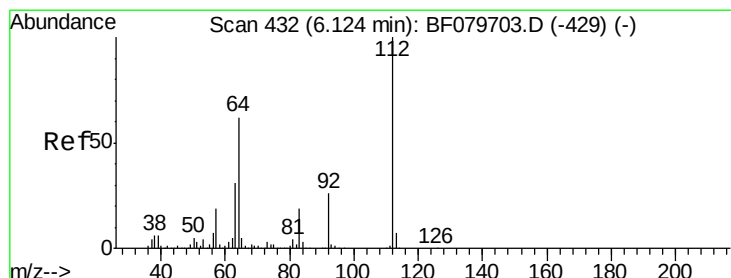
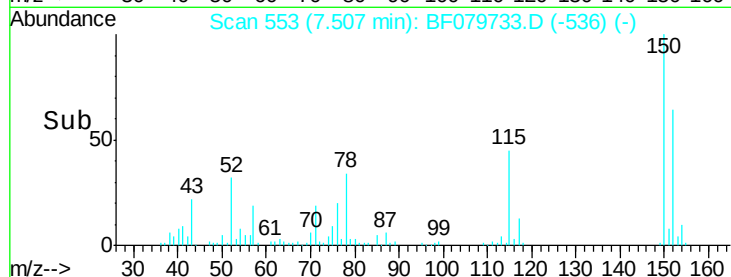
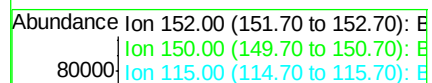
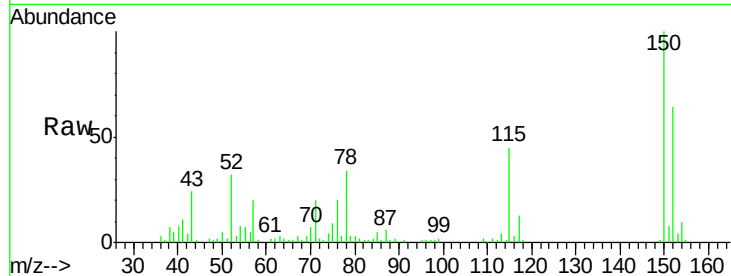
Tgt Ion:152 Resp: 54499

Ion Ratio Lower Upper

152 100

150 156.5 128.1 192.1

115 70.1 49.7 74.5



#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

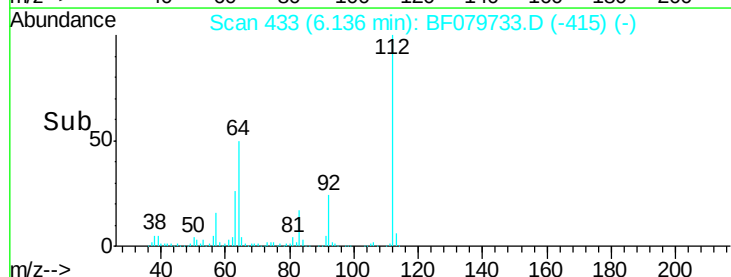
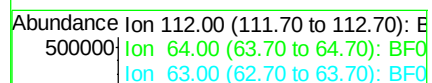
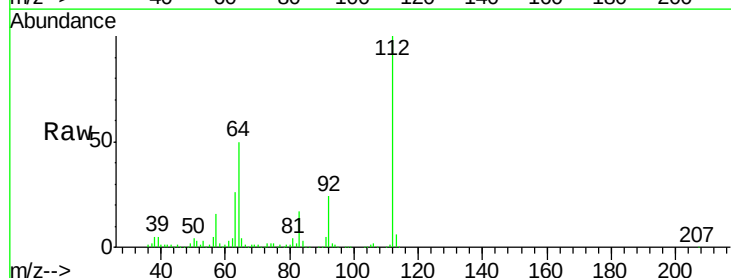
Tgt Ion:112 Resp: 431881

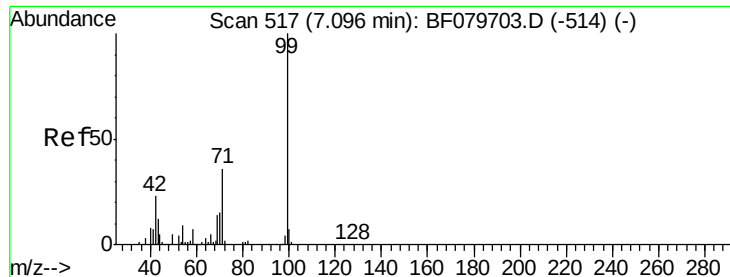
Ion Ratio Lower Upper

112 100

64 49.9 49.6 74.4

63 25.7 24.9 37.3





#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

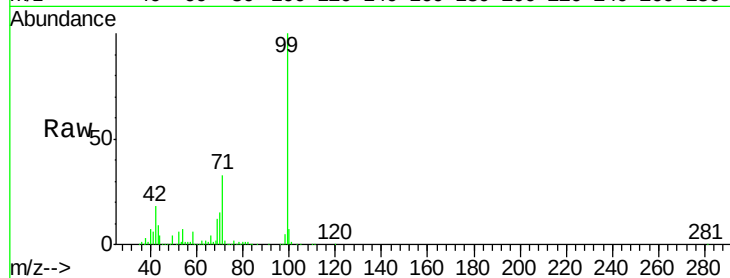
Tgt Ion: 99 Resp: 590623

Ion Ratio Lower Upper

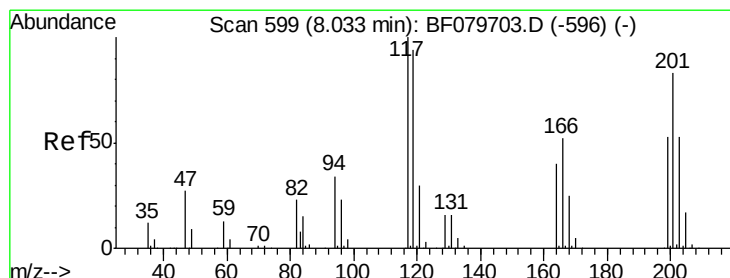
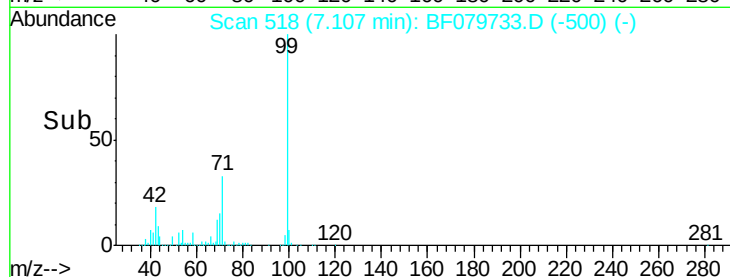
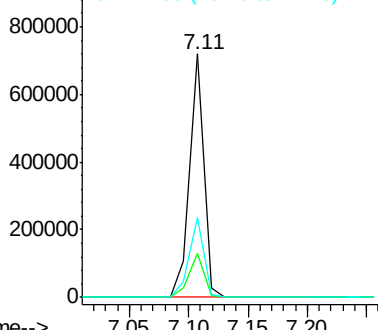
99 100

42 18.2 18.0 27.0

71 32.6 28.4 42.6



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



#18

Hexachloroethane

Concen: 2.29 ng

RT: 8.04 min Scan# 600

Delta R.T. 0.01 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

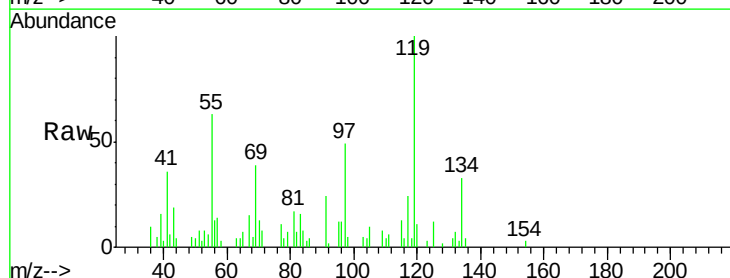
Tgt Ion: 117 Resp: 3186

Ion Ratio Lower Upper

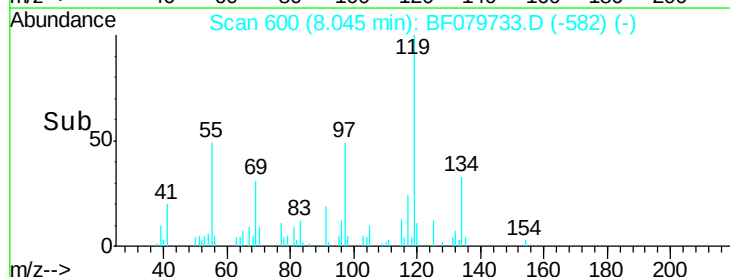
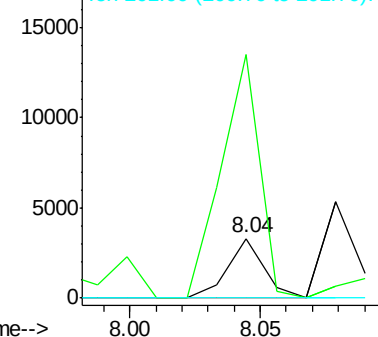
117 100

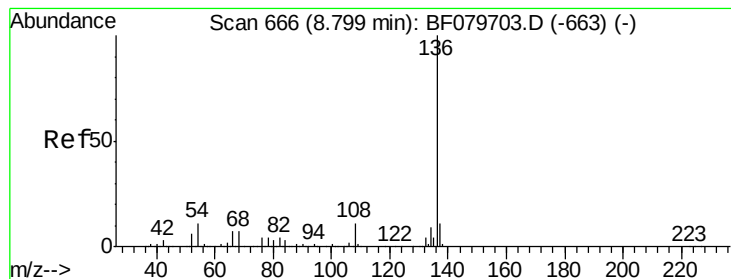
119 408.5 75.5 113.3#

201 0.0 66.4 99.6#



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E





#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

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

Tgt Ion:136 Resp: 215815

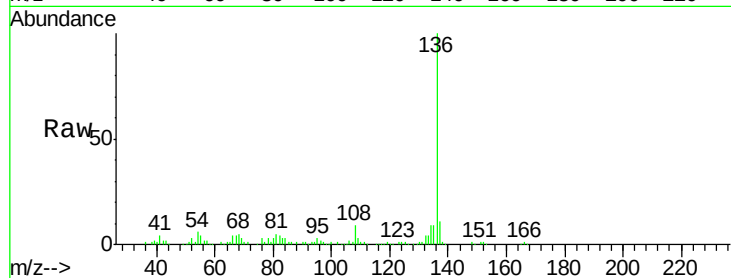
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 6.0 8.7 13.1#

68 5.3 5.8 8.8#

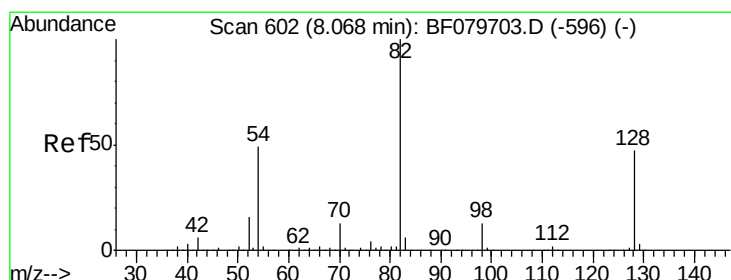
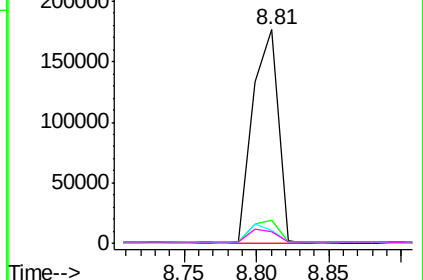
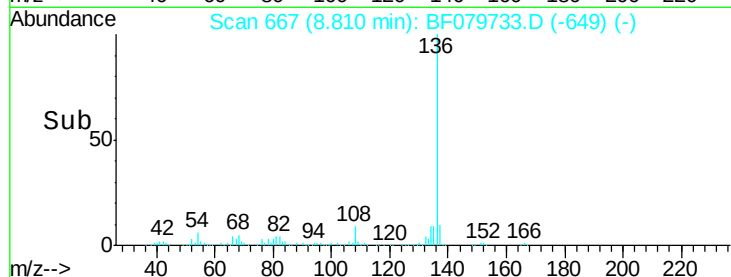


Abundance Ion 136.00 (135.70 to 136.70): E

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: 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

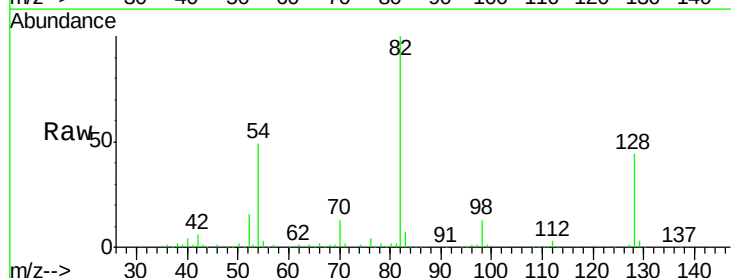
Tgt Ion: 82 Resp: 303385

Ion Ratio Lower Upper

82 100

128 43.9 37.6 56.4

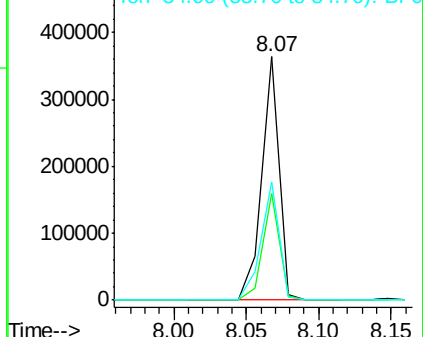
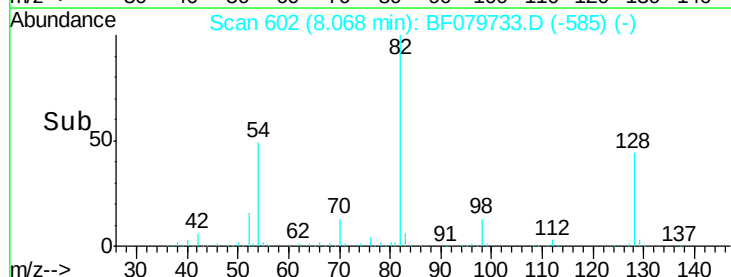
54 48.6 39.4 59.2

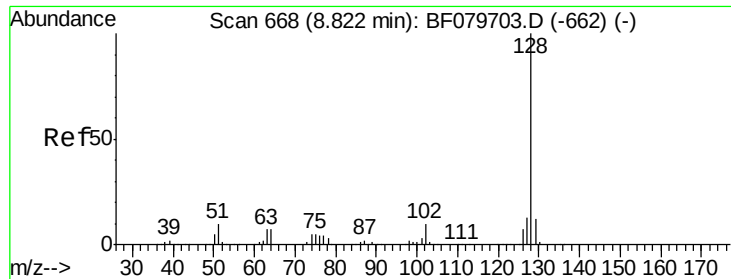


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

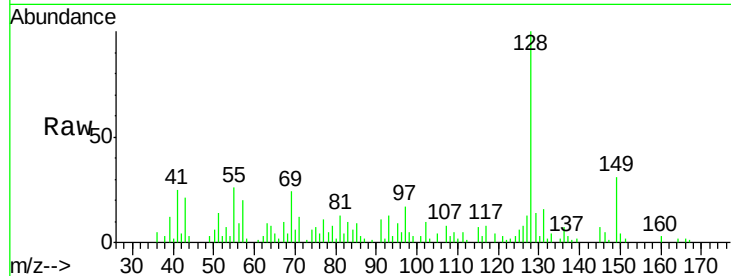




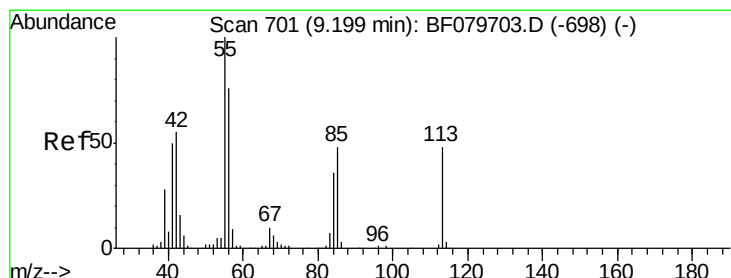
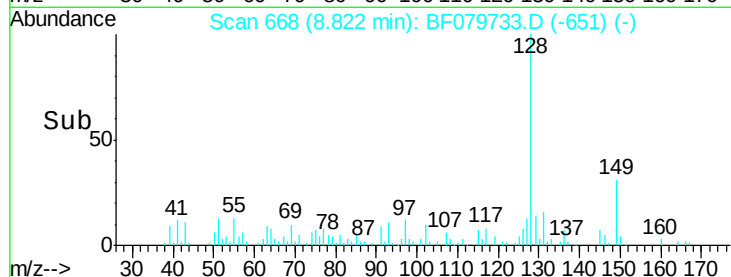
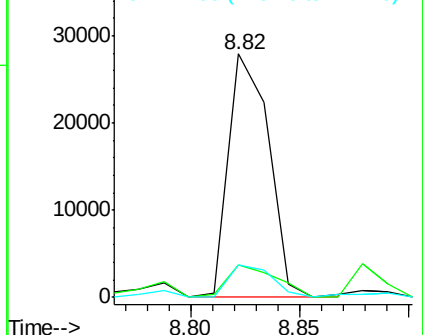
#31
Naphthalene
Concen: 3.04 ng
RT: 8.82 min Scan# 668
Delta R.T. 0.00 min
Lab File: BF079733.D
Acq: 5 Jun 2015 9:32

Instrument :
BNA_F
ClientSampleId :
SEC-3.6-SP

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

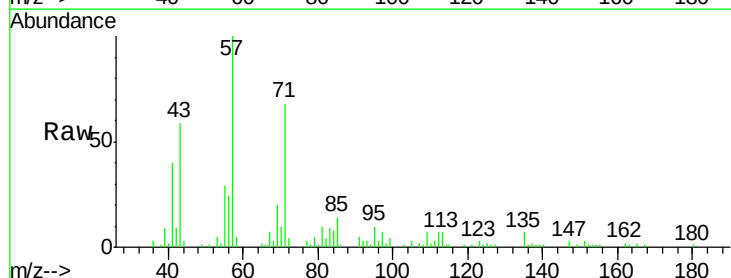


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

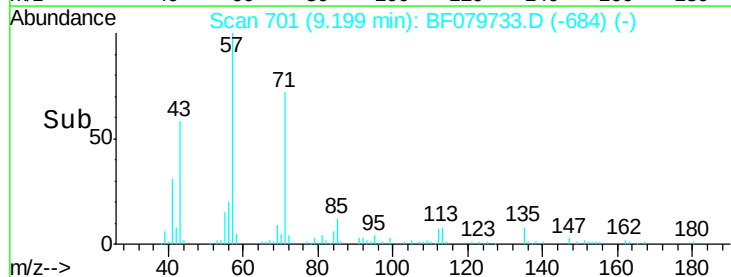
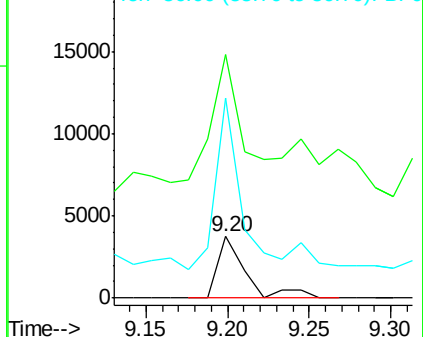


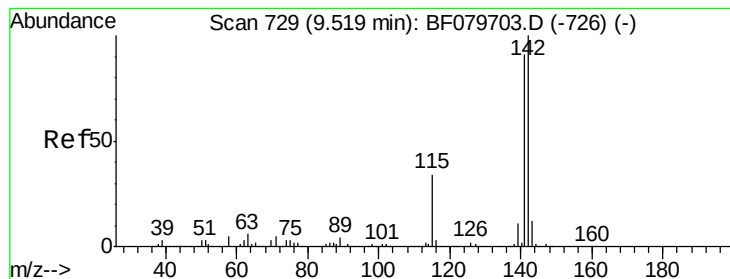
#35
Caprolactam
Concen: 4.78 ng
RT: 9.20 min Scan# 701
Delta R.T. 0.00 min
Lab File: BF079733.D
Acq: 5 Jun 2015 9:32

Tgt Ion:113 Resp: 4398
Ion Ratio Lower Upper
113 100
55 396.7 186.6 226.6#
56 326.4 137.8 177.8#



Abundance Ion 113.00 (112.70 to 113.70): E
Ion 55.00 (54.70 to 55.70): BF0
Ion 56.00 (55.70 to 56.70): BF0





#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 :

BNA_F

ClientSampleId :

SEC-3.6-SP

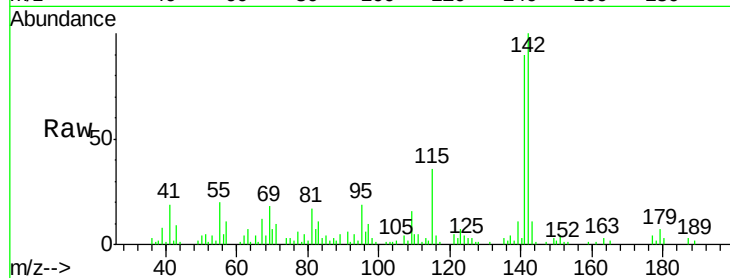
Tgt Ion:142 Resp: 40994

Ion Ratio Lower Upper

142 100

141 90.1 72.8 109.2

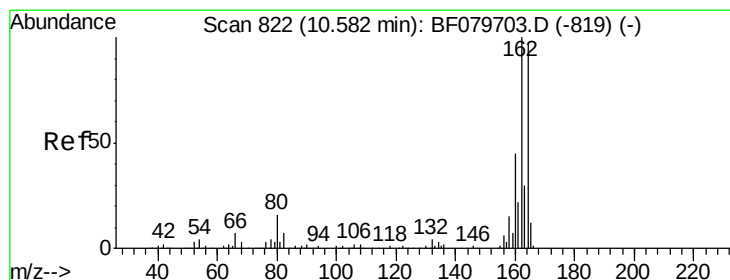
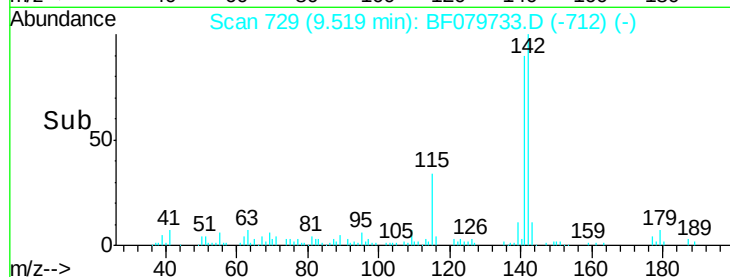
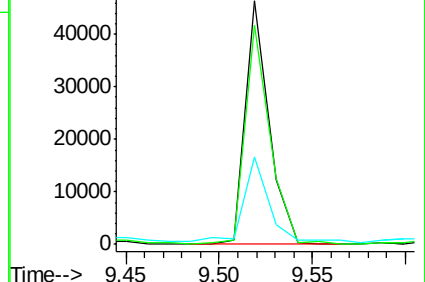
115 35.8 26.9 40.3



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: 10.58 min Scan# 822

Delta R.T. 0.00 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

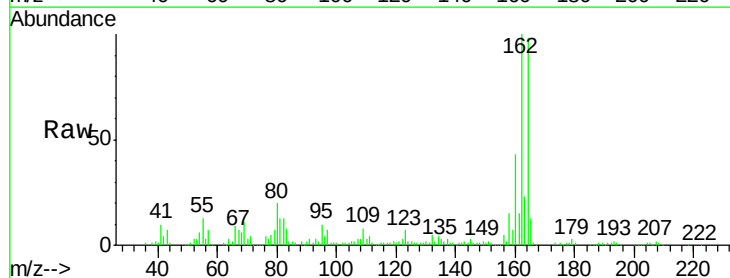
Tgt Ion:164 Resp: 118741

Ion Ratio Lower Upper

164 100

162 101.8 82.6 123.8

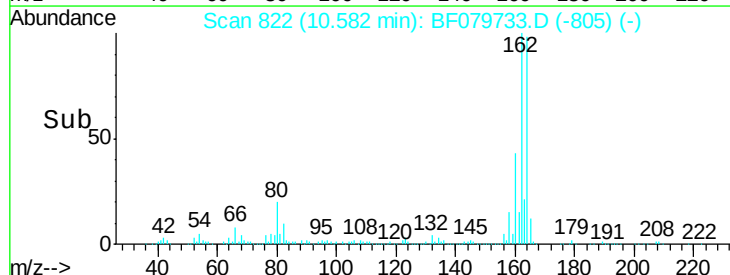
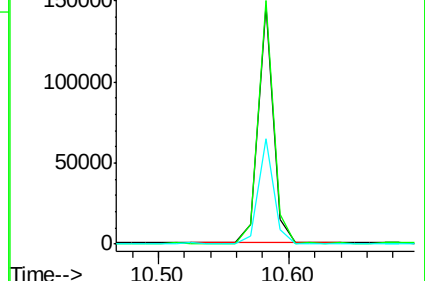
160 43.8 36.8 55.2

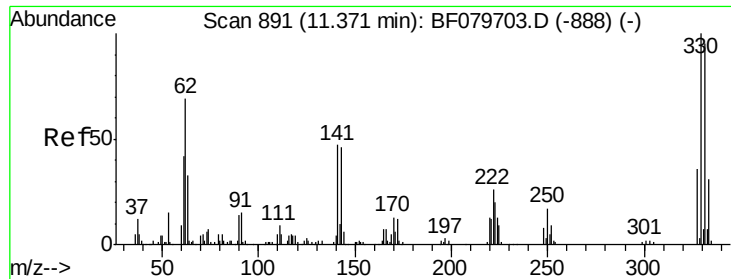


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

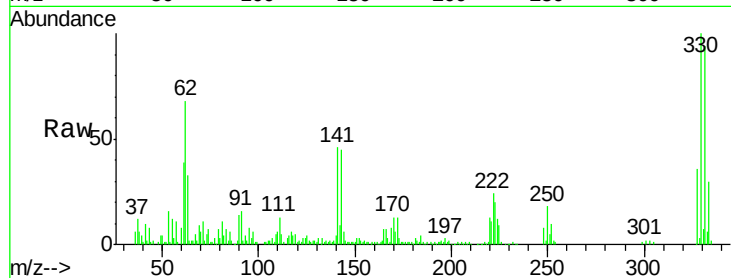




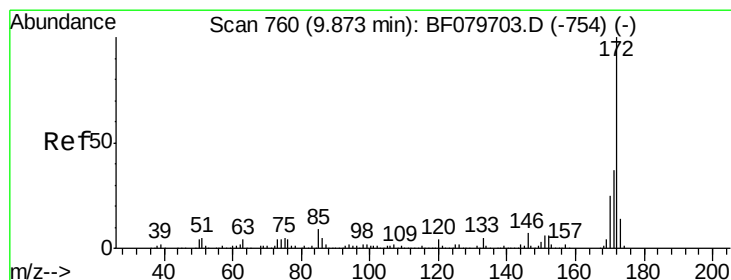
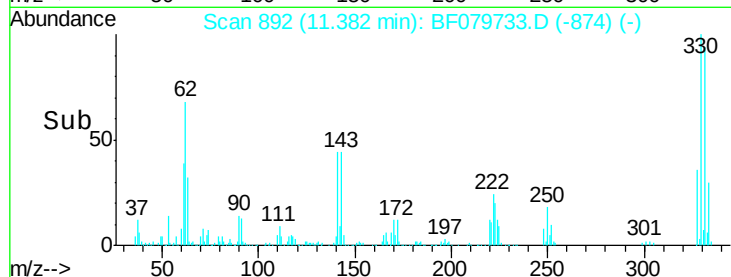
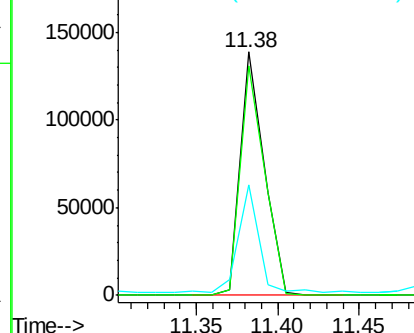
#41
 2,4,6-Tribromophenol
 Concen: 130.64 ng
 RT: 11.38 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: BF079733.D
 Acq: 5 Jun 2015 9:32

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

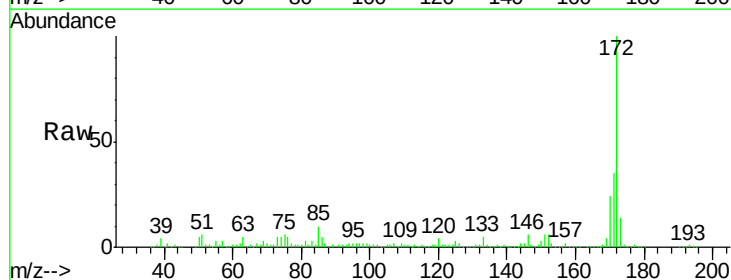


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

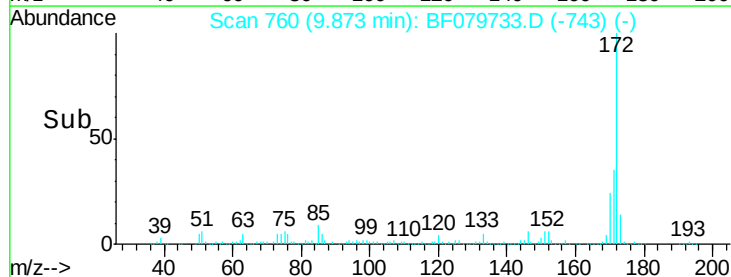
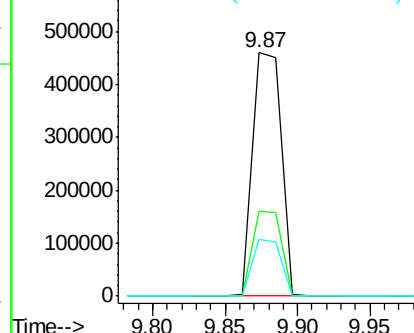


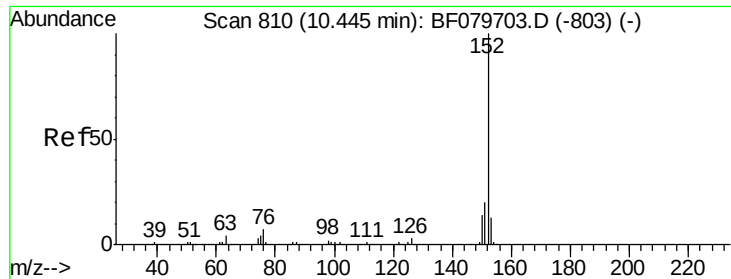
#44
 2-Fluorobiphenyl
 Concen: 76.69 ng
 RT: 9.87 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: BF079733.D
 Acq: 5 Jun 2015 9:32

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

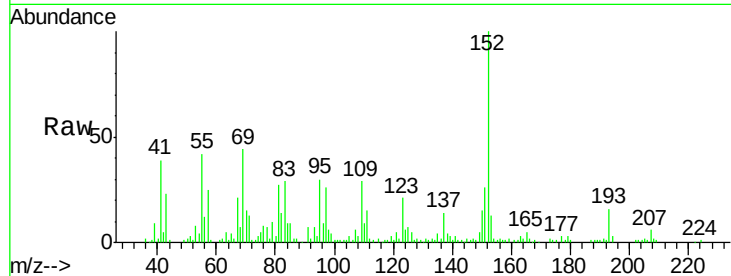
Tgt Ion:152 Resp: 74127

Ion Ratio Lower Upper

152 100

151 26.0 16.2 24.4#

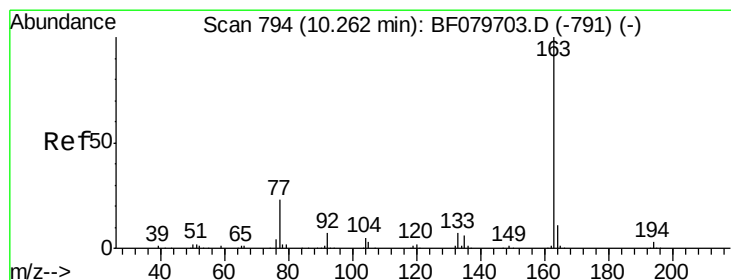
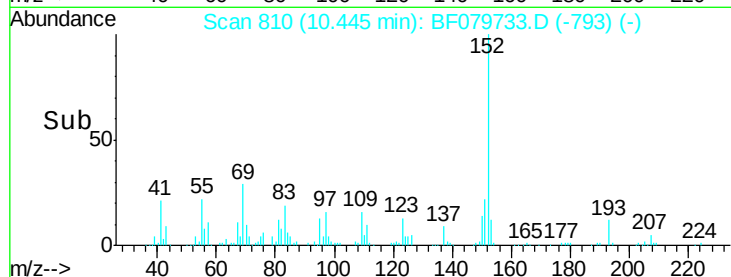
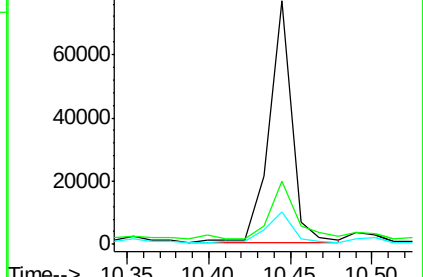
153 13.5 10.4 15.6



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

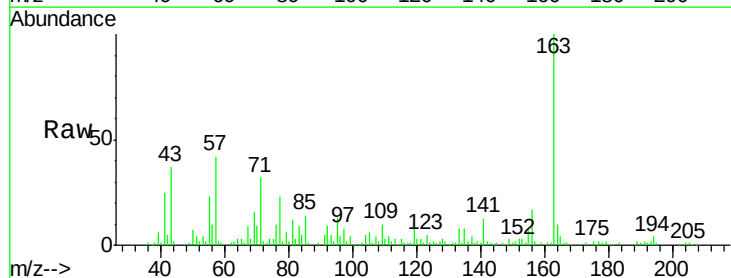
Tgt Ion:163 Resp: 80343

Ion Ratio Lower Upper

163 100

194 3.9 2.6 3.8#

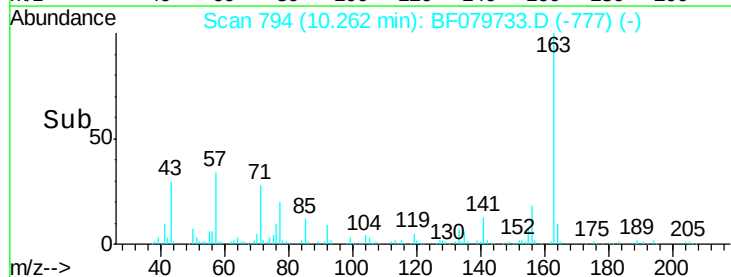
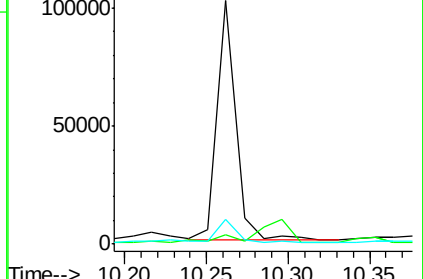
164 10.3 8.5 12.7

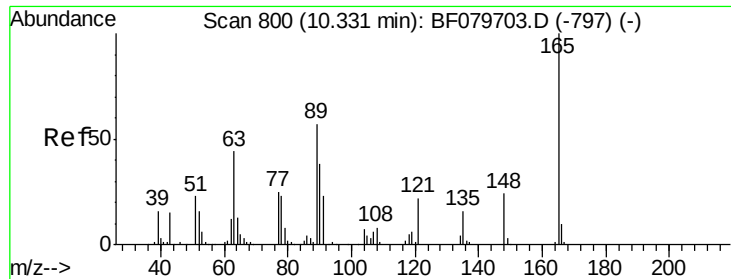


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

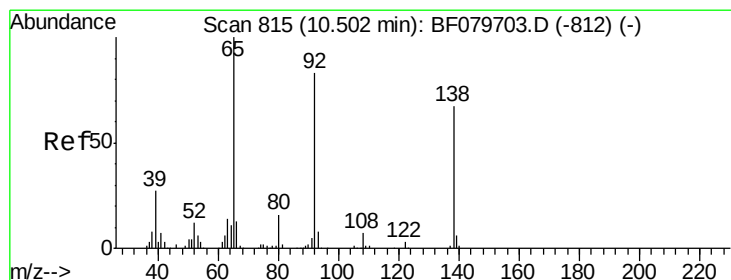
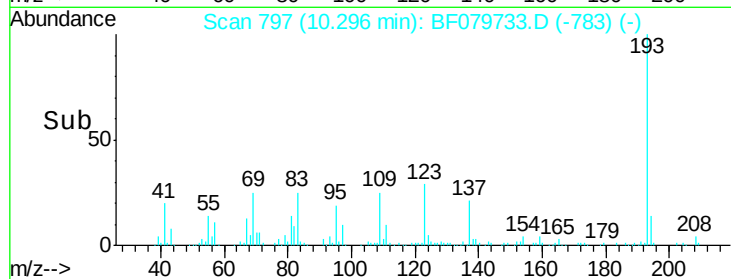
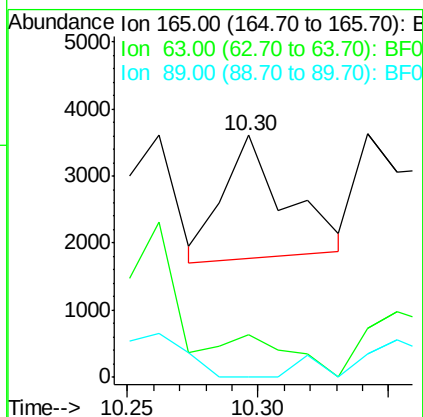
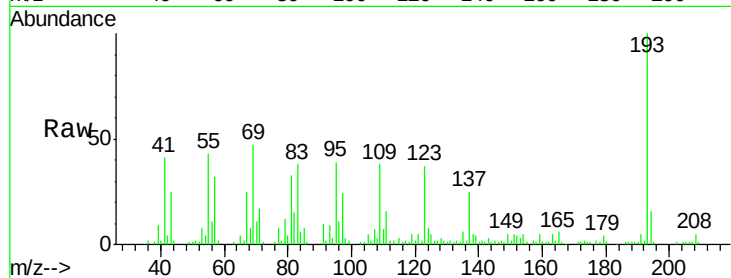




#50
 2,6-Dinitrotoluene
 Concen: 4.73 ng
 RT: 10.30 min Scan# 797
 Delta R.T. -0.03 min
 Lab File: BF079733.D
 Acq: 5 Jun 2015 9:32

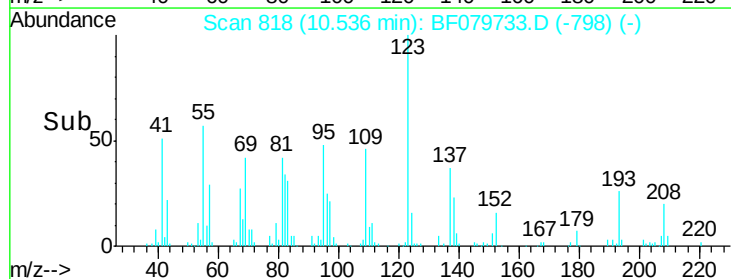
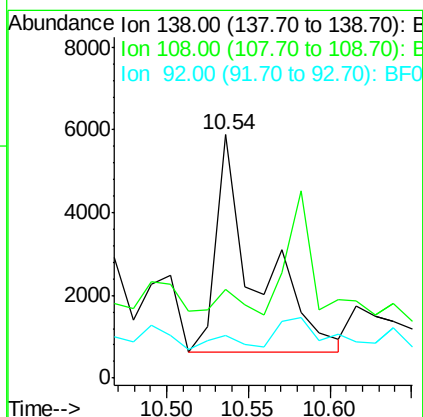
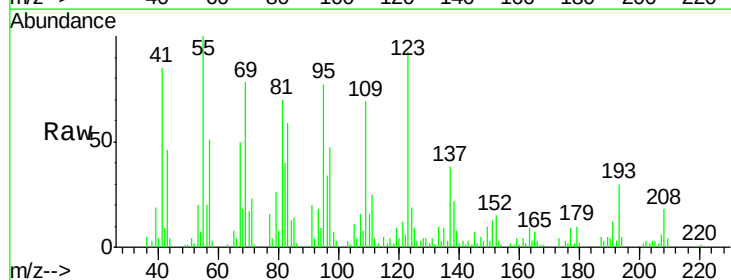
Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.6-SP

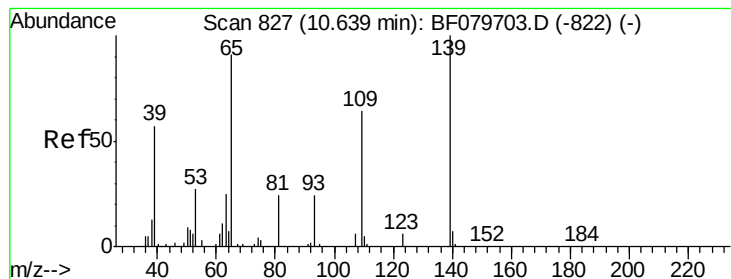
Tgt Ion:165 Resp: 3101
 Ion Ratio Lower Upper
 165 100
 63 17.7 45.2 67.8#
 89 0.0 45.9 68.9#



#52
 3-Nitroaniline
 Concen: 4.87 ng
 RT: 10.54 min Scan# 818
 Delta R.T. 0.03 min
 Lab File: BF079733.D
 Acq: 5 Jun 2015 9:32

Tgt Ion:138 Resp: 8985
 Ion Ratio Lower Upper
 138 100
 108 36.3 8.9 13.3#
 92 17.6 99.0 148.4#





#55

4-Nitrophenol

Concen: 2.09 ng

RT: 10.67 min Scan# 830

Delta R.T. 0.03 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

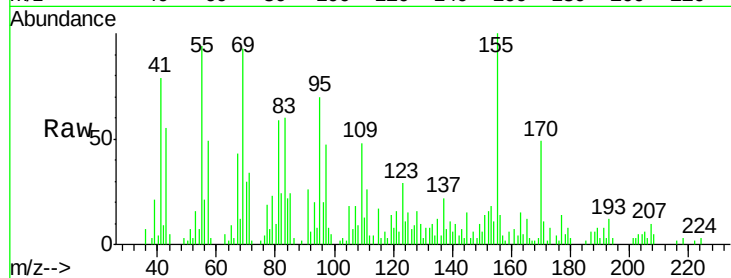
Tgt Ion:139 Resp: 3250

Ion Ratio Lower Upper

139 100

109 452.2 44.2 84.2#

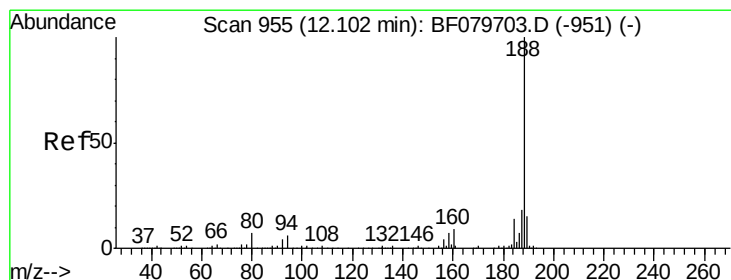
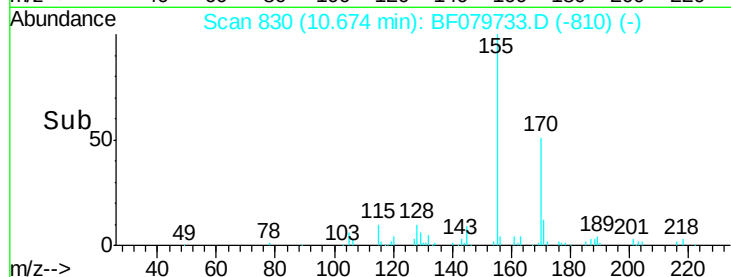
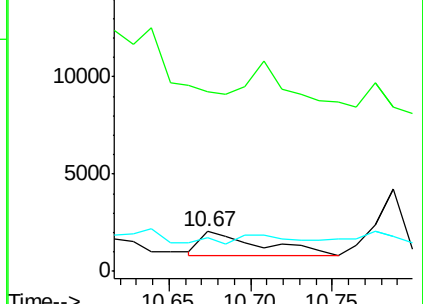
65 85.4 72.3 112.3



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#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

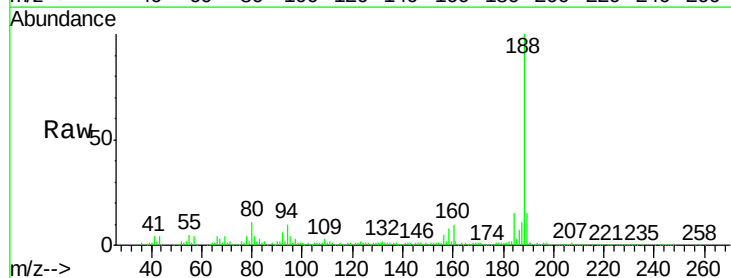
Tgt Ion:188 Resp: 234738

Ion Ratio Lower Upper

188 100

94 9.9 5.0 7.4#

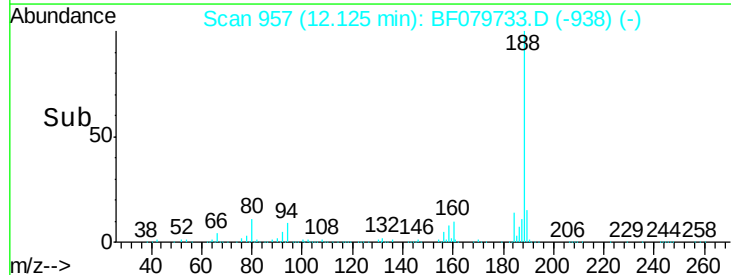
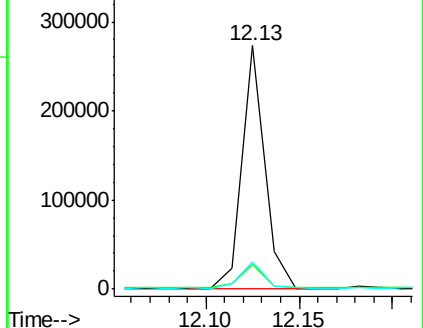
80 11.2 5.3 7.9#

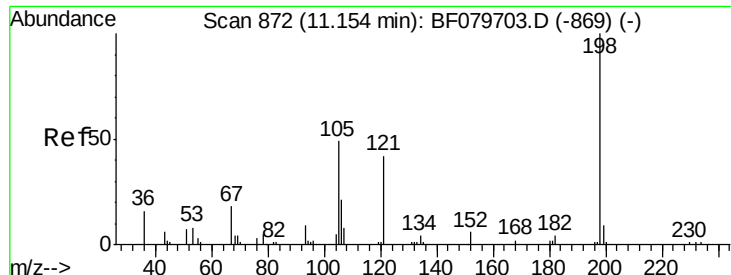


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

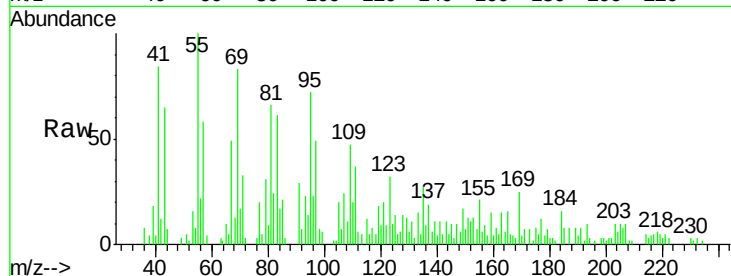




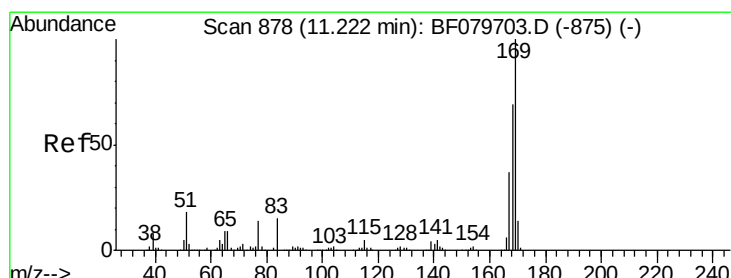
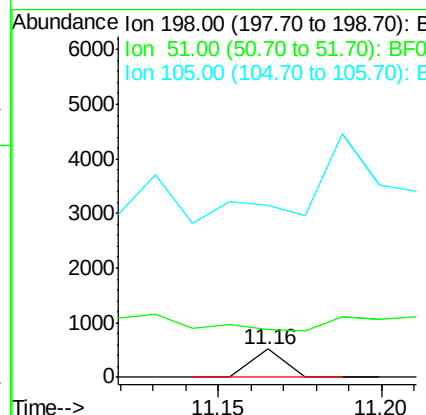
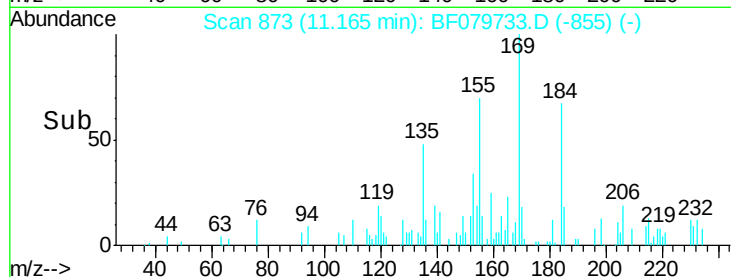
#64
4,6-Dinitro-2-methylphenol
Concen: 3.66 ng
RT: 11.16 min Scan# 873
Delta R.T. 0.01 min
Lab File: BF079733.D
Acq: 5 Jun 2015 9:32

Instrument :
BNA_F
ClientSampleId :
SEC-3.6-SP

Tgt Ion:198 Resp: 356
Ion Ratio Lower Upper
198 100
51 167.6 34.4 74.4#
105 608.1 32.7 72.7#

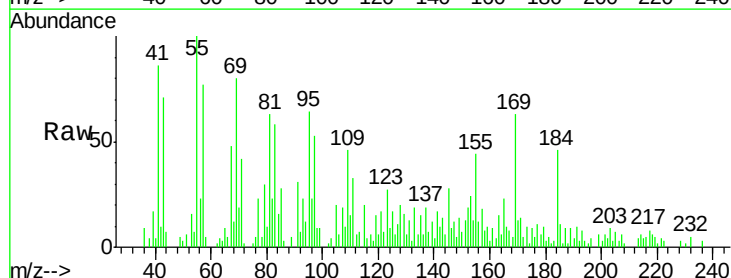


Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E

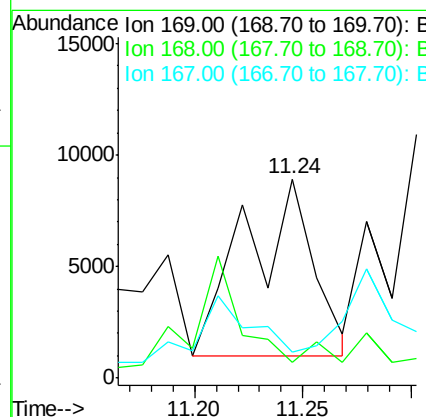
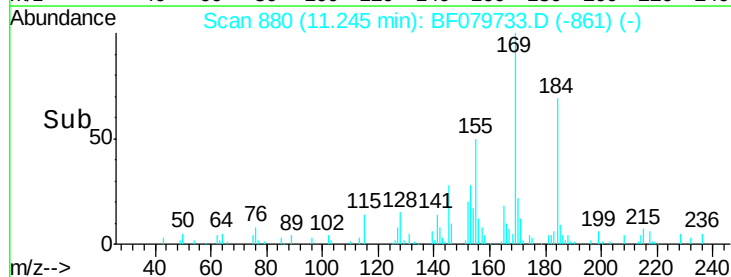


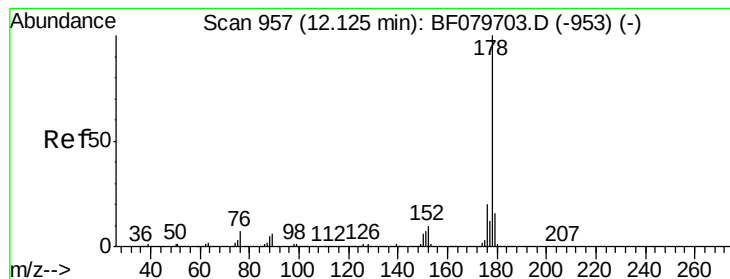
#65
n-Nitrosodiphenylamine
Concen: 2.35 ng
RT: 11.24 min Scan# 880
Delta R.T. 0.02 min
Lab File: BF079733.D
Acq: 5 Jun 2015 9:32

Tgt Ion:169 Resp: 17382
Ion Ratio Lower Upper
169 100
168 8.0 54.8 82.2#
167 13.2 29.7 44.5#



Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E





#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

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

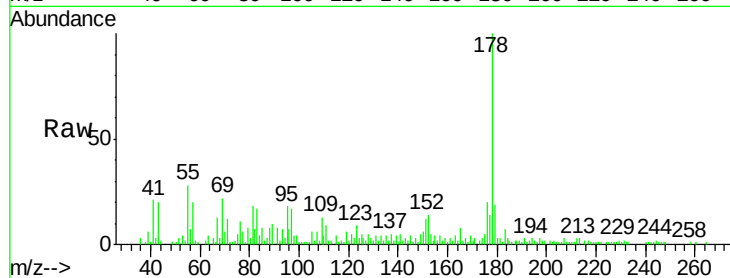
Tgt Ion:178 Resp: 51460

Ion Ratio Lower Upper

178 100

176 19.6 16.2 24.4

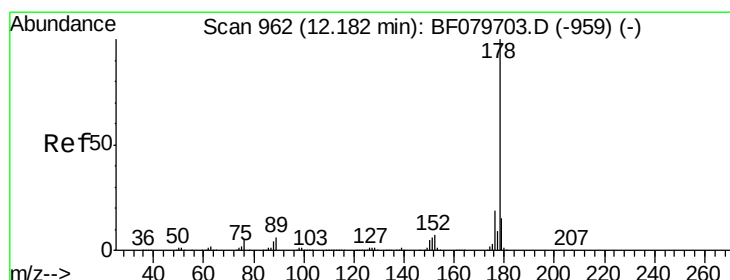
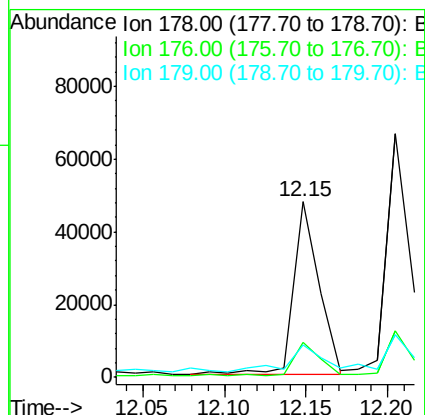
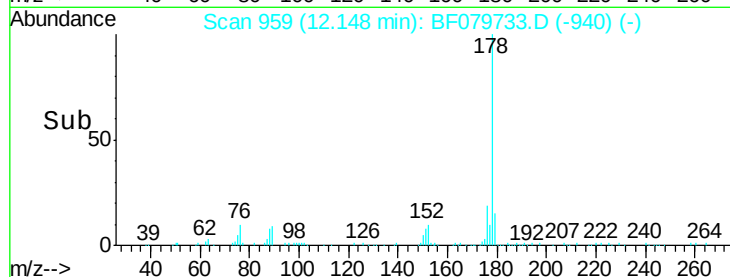
179 18.6 12.6 19.0



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

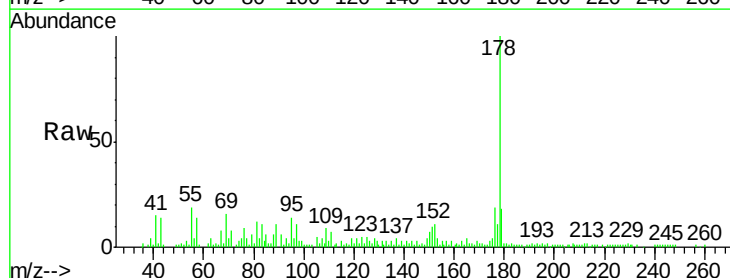
Tgt Ion:178 Resp: 70322

Ion Ratio Lower Upper

178 100

176 19.0 14.8 22.2

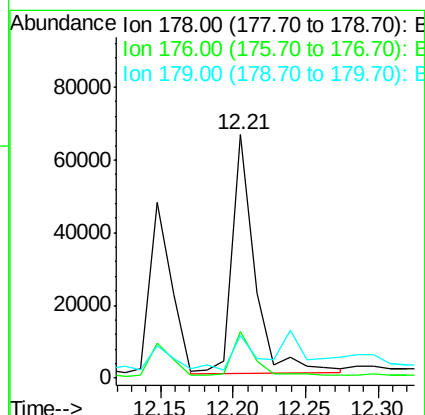
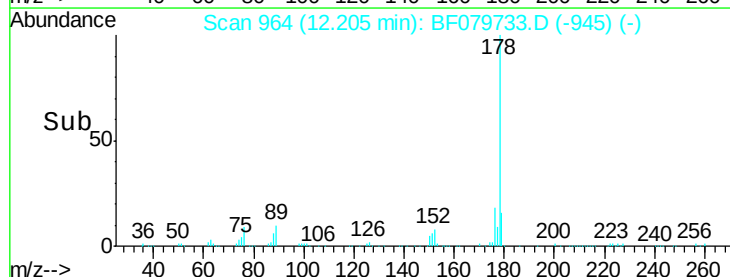
179 17.7 12.2 18.2

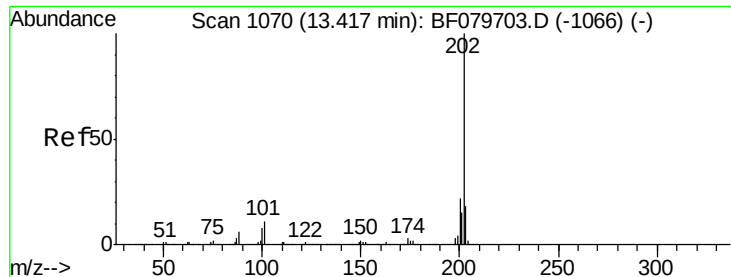


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#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

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

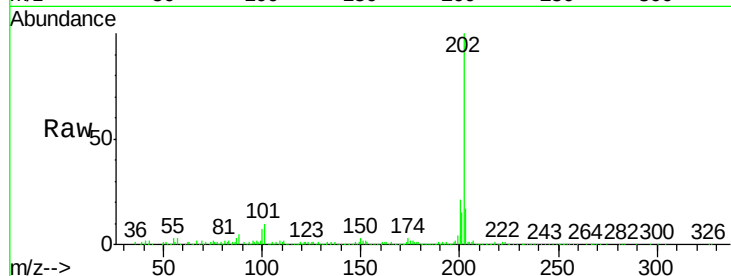
Tgt Ion: 202 Resp: 272479

Ion Ratio Lower Upper

202 100

101 9.6 0.0 31.3

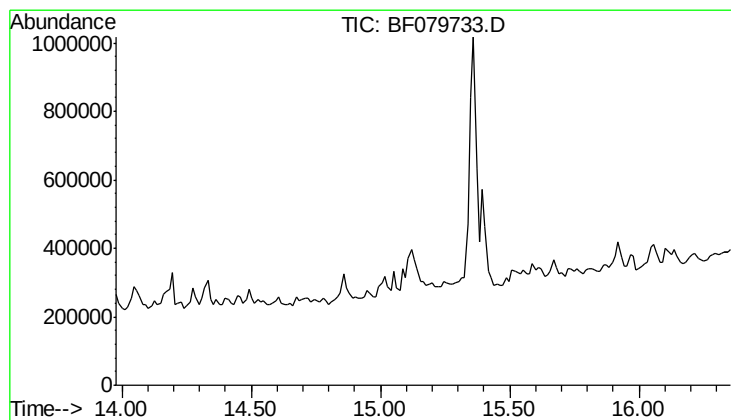
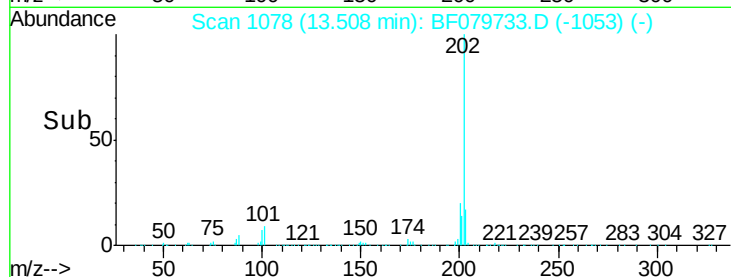
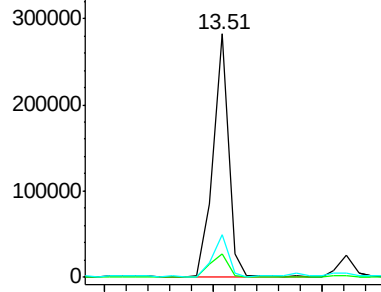
203 17.5 0.0 38.4



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: 0.00 ng

Expected RT: 15.17 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

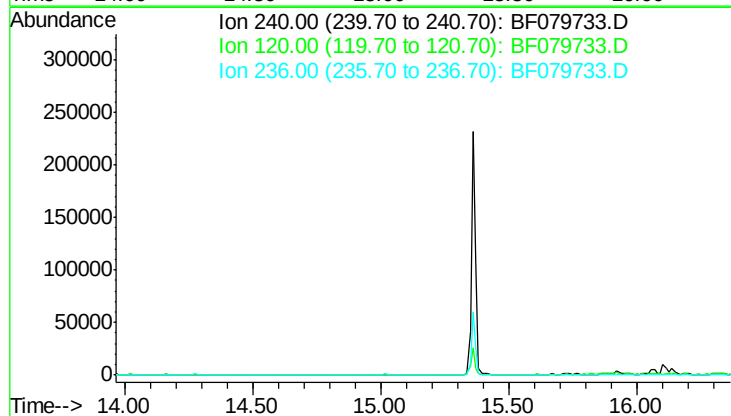
Tgt Ion: 240

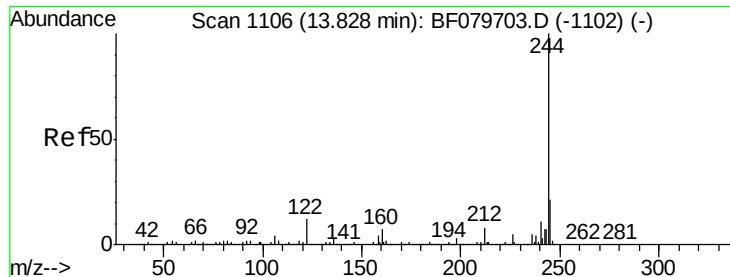
Sig Exp Ratio

240 100

120 7.7

236 26.2





#78

Terphenyl-d14

Concen: 0.00 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

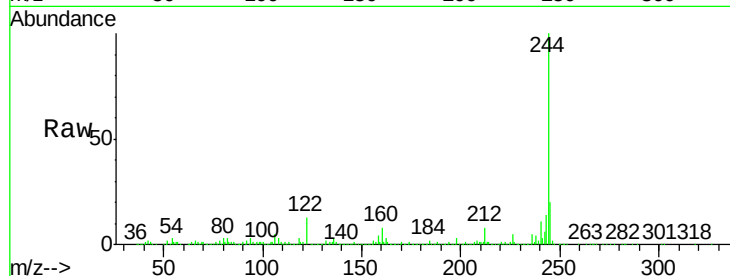
Tgt Ion:244 Resp: 809856

Ion Ratio Lower Upper

244 100

212 7.5 6.1 9.1

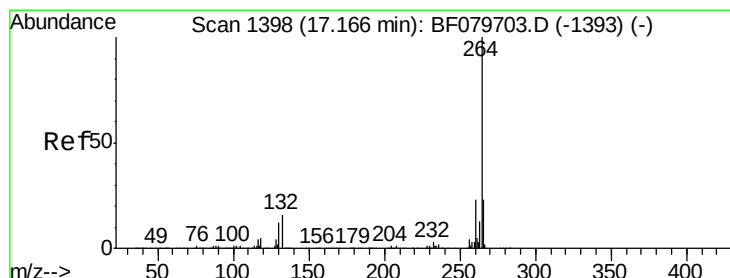
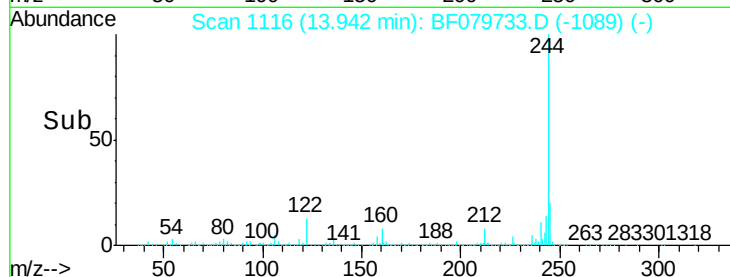
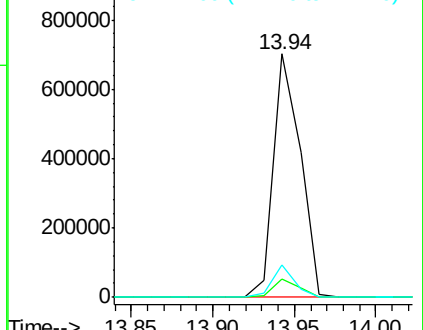
122 13.1 9.3 13.9



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 17.17 min Scan# 1398

Delta R.T. 0.00 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

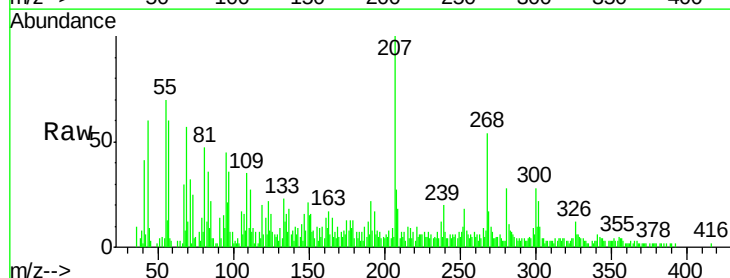
Tgt Ion:264 Resp: 751

Ion Ratio Lower Upper

264 100

260 114.0 18.6 27.8#

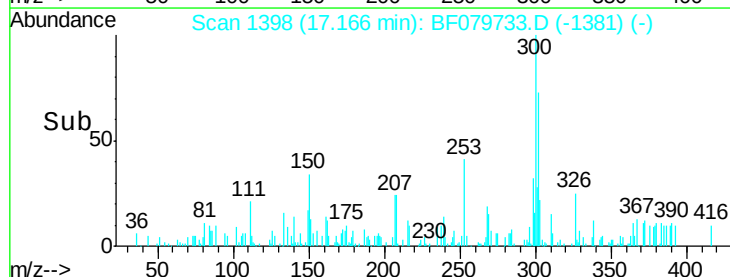
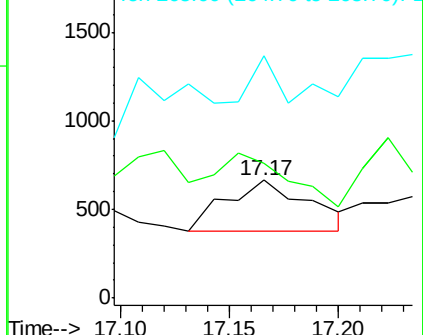
265 206.2 18.2 27.4#

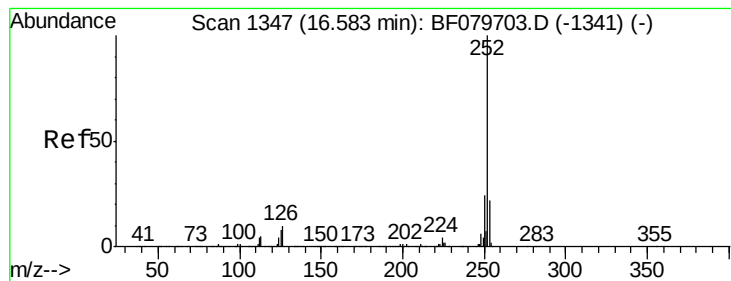


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 24.69 ng

RT: 16.54 min Scan# 1343

Delta R.T. -0.05 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

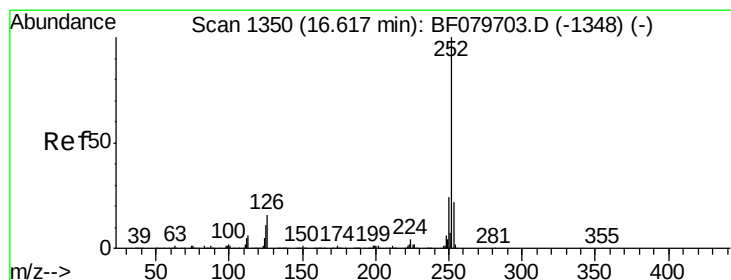
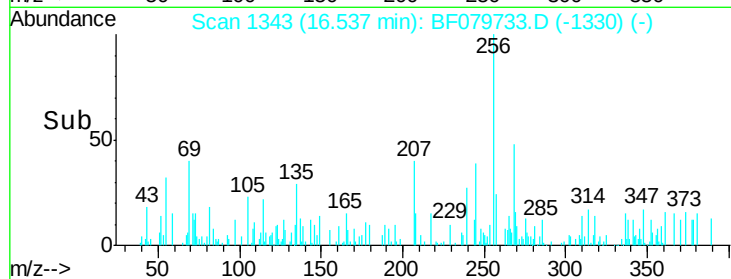
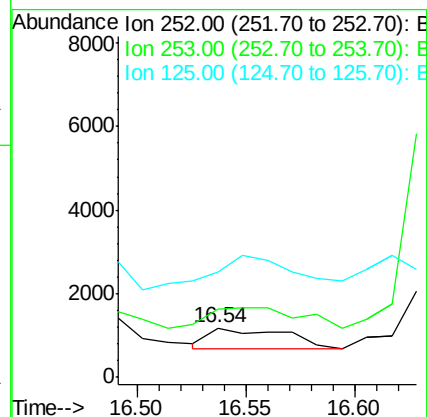
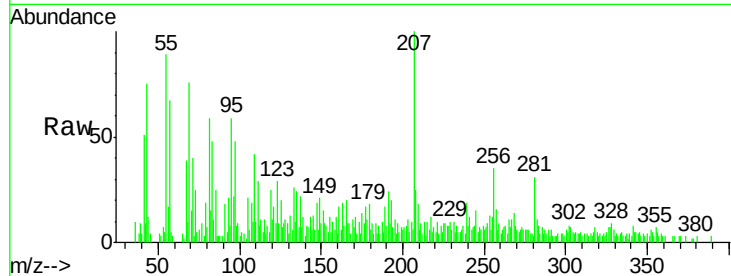
Tgt Ion:252 Resp: 1196

Ion Ratio Lower Upper

252 100

253 137.8 17.4 26.2#

125 213.5 6.5 9.7#



#88

Benzo(k)fluoranthene

Concen: 88.67 ng

RT: 16.64 min Scan# 1352

Delta R.T. 0.02 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

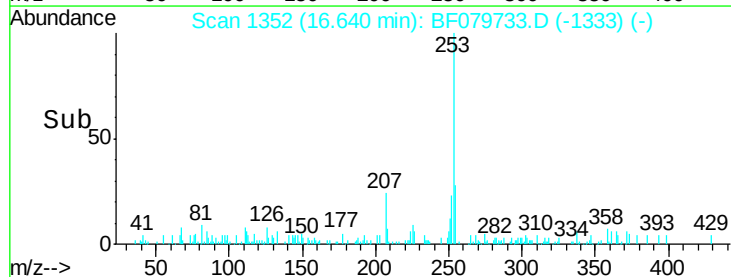
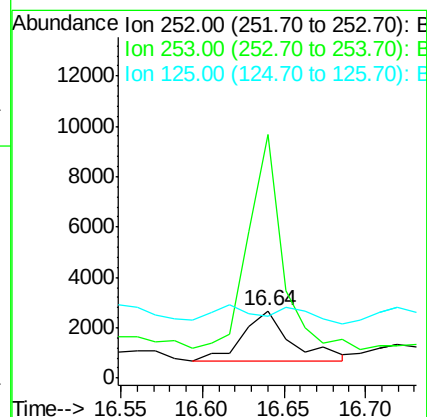
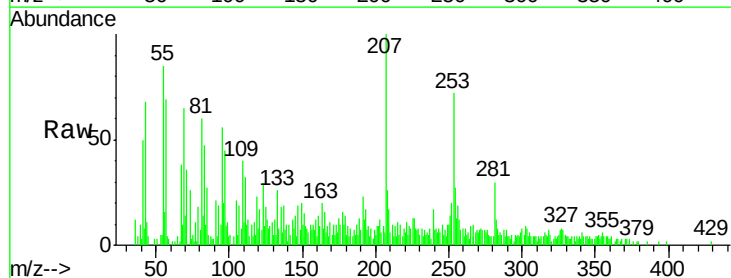
Tgt Ion:252 Resp: 4099

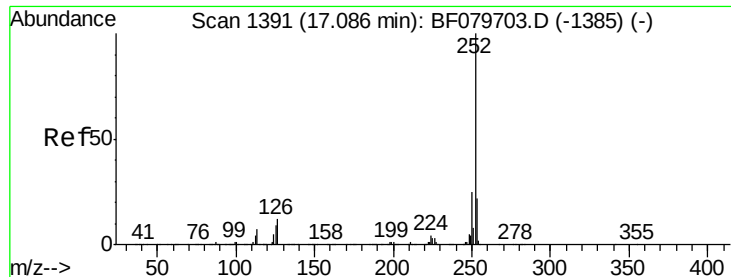
Ion Ratio Lower Upper

252 100

253 362.4 17.8 26.8#

125 92.1 8.4 12.6#





#89

Benzo(a)pyrene

Concen: 1347.08 ng

RT: 17.02 min Scan# 1385

Delta R.T. -0.07 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP

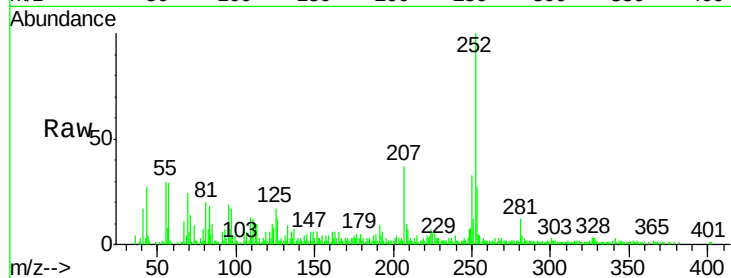
Tgt Ion: 252 Resp: 59621

Ion Ratio Lower Upper

252 100

253 26.6 17.6 26.4#

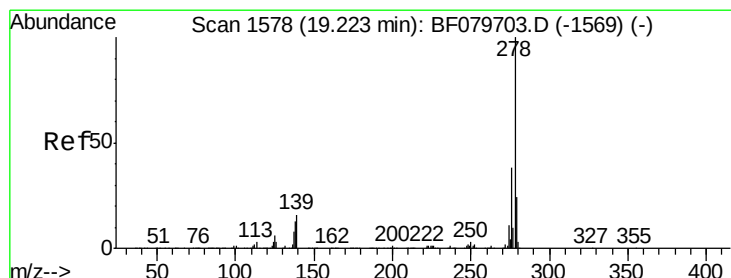
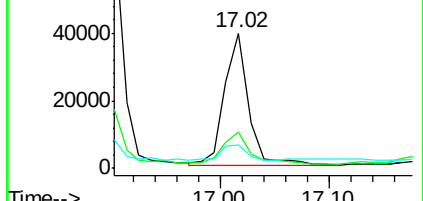
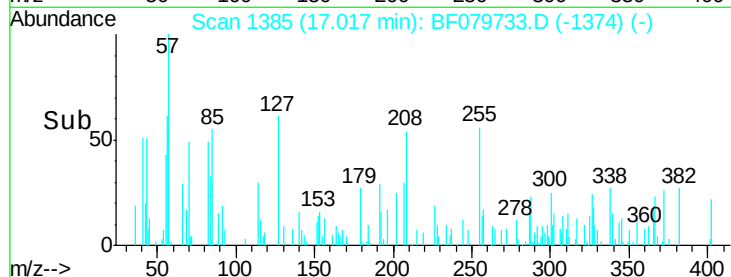
125 17.2 7.4 11.0#



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: 556.31 ng

RT: 19.26 min Scan# 1581

Delta R.T. 0.03 min

Lab File: BF079733.D

Acq: 5 Jun 2015 9:32

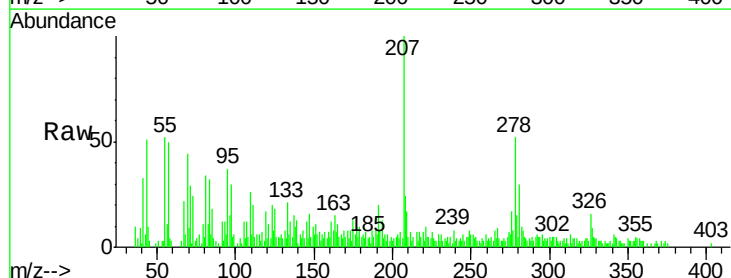
Tgt Ion: 278 Resp: 22746

Ion Ratio Lower Upper

278 100

139 25.2 12.7 19.1#

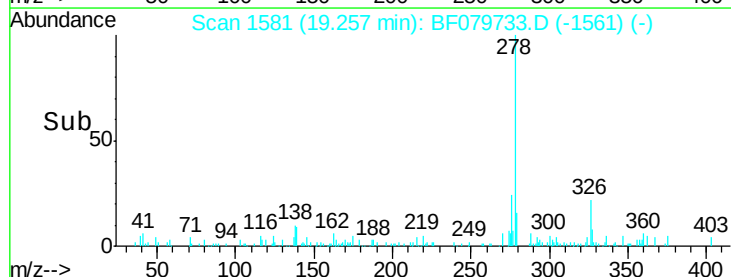
279 28.1 19.4 29.2



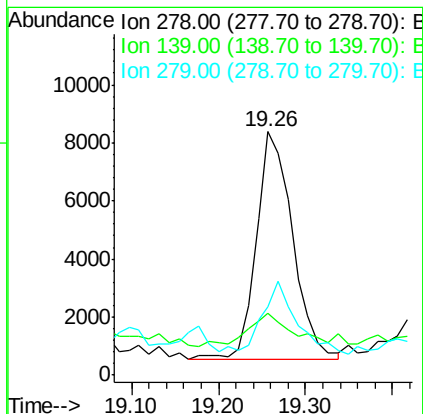
Abundance Ion 278.00 (277.70 to 278.70): E

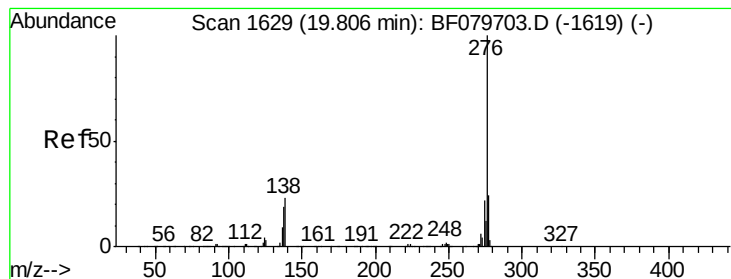
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->





#91

Benzo(g,h,i)perylene

Concen: 169.75 ng

RT: 19.85 min Scan# 1633

Delta R.T. 0.05 min

Lab File: BF079733.D

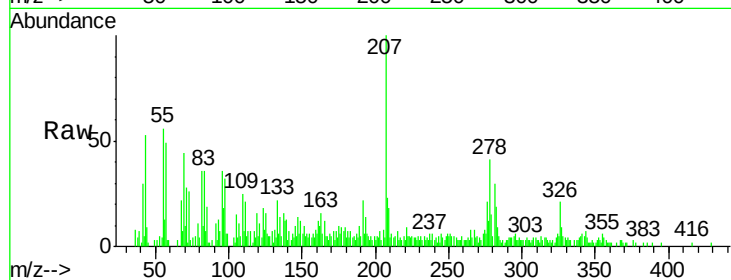
Acq: 5 Jun 2015 9:32

Instrument :

BNA_F

ClientSampleId :

SEC-3.6-SP



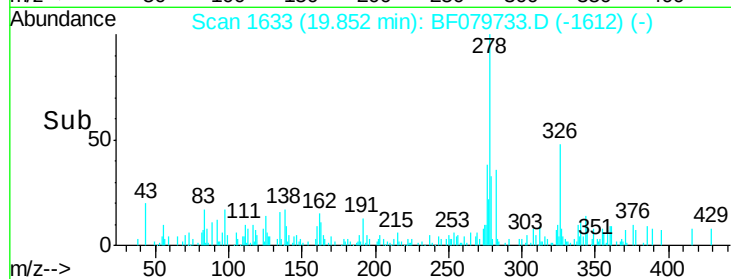
Tgt Ion: 276 Resp: 7097

Ion Ratio Lower Upper

276 100

277 58.2 18.8 28.2#

138 56.6 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

