

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060415\
 Data File : BF079732.D
 Acq On : 5 Jun 2015 7:37
 Operator : TP/IZ
 Sample : G2450-05
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.4-SP

Quant Time: Jun 06 03:36:02 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	64603	20.00	ng	0.00
21) Naphthalene-d8	8.80	136	253507	20.00	ng	0.00
38) Acenaphthene-d10	10.58	164	141396	20.00	ng	0.00
63) Phenanthrene-d10	12.09	188	273697	20.00	ng	0.01
75) Chrysene-d12	15.12	240	292405	20.00	ng	0.14
86) Perylene-d12	17.10	264	294133	20.00	ng	0.18

System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	444218	117.90	ng	0.01
7) Phenol-d6	7.11	99	625270	127.49	ng	0.01
23) Nitrobenzene-d5	8.07	82	319439	76.72	ng	0.00
41) 2,4,6-Tribromophenol	11.38	330	159402	125.54	ng	0.01
44) 2-Fluorobiphenyl	9.87	172	732421	74.99	ng	0.00
78) Terphenyl-d14	13.81	244	946933	76.30	ng	0.07

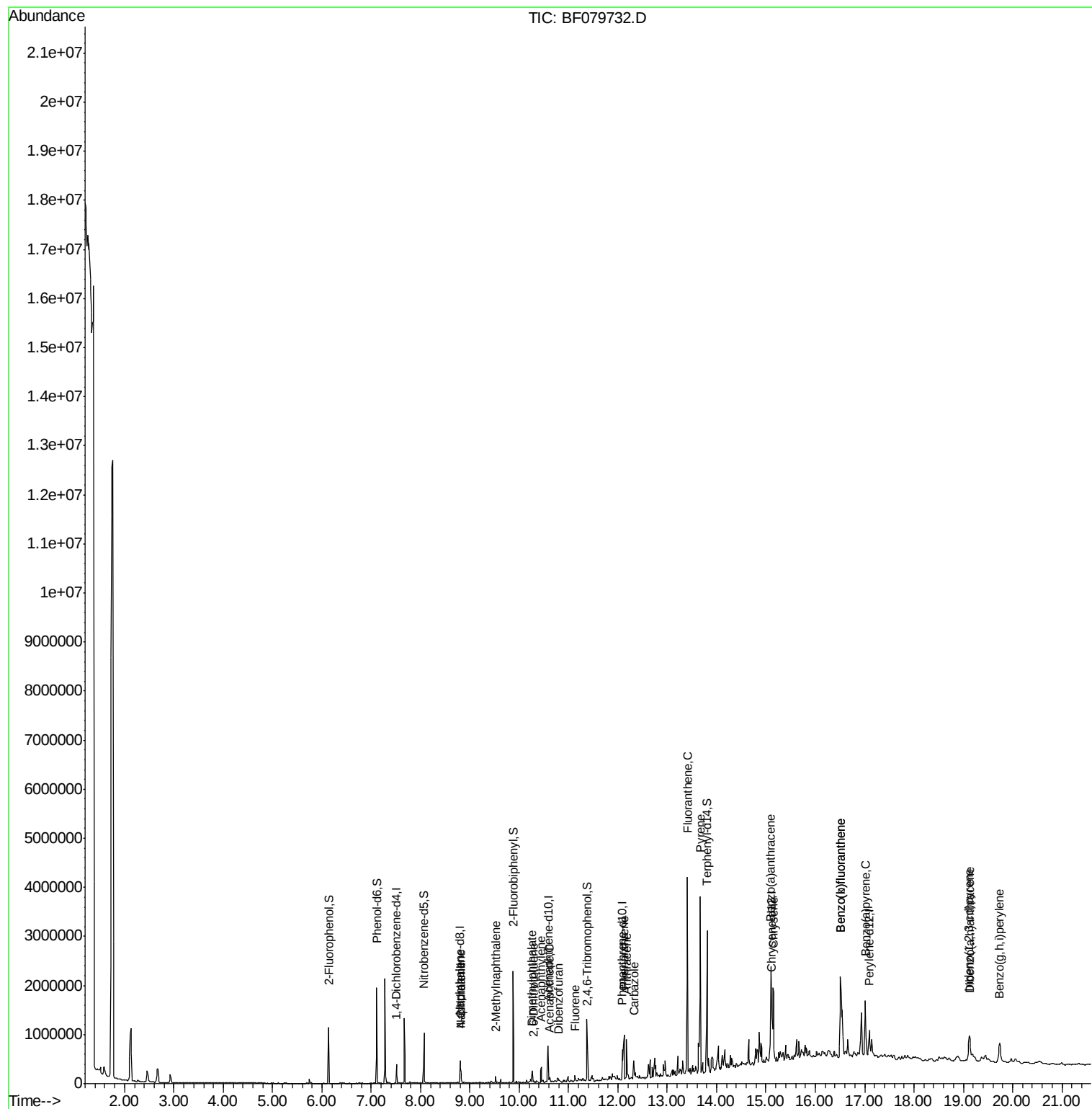
Target Compounds				Qvalue		
31) Naphthalene	8.82	128	97049	6.95	ng	99
33) 4-Chloroaniline	8.82	127	12314	2.22	ng	# 26
37) 2-Methylnaphthalene	9.52	142	32830	3.48	ng	96
48) Acenaphthylene	10.44	152	188530	11.92	ng	99
49) Dimethylphthalate	10.26	163	70790	6.50	ng	98
50) 2,6-Dinitrotoluene	10.30	165	212	3.15	ng	# 1
51) Acenaphthene	10.62	154	22595	2.43	ng	92
54) Dibenzofuran	10.79	168	37560	2.81	ng	98
57) Fluorene	11.13	166	36655	3.22	ng	# 96
70) Phenanthrene	12.13	178	491769	30.89	ng	99
71) Anthracene	12.17	178	339640	21.56	ng	99
72) Carbazole	12.32	167	136915	9.32	ng	97
74) Fluoranthene	13.41	202	1820301	105.40	ng	99
77) Pyrene	13.67	202	1661043	91.42	ng	99
80) Benzo(a)anthracene	15.10	228	972330	54.39	ng	97
82) Chrysene	15.15	228	973886	58.22	ng	98
85) Indeno(1,2,3-cd)pyrene	19.12	276	446549	23.65	ng	95
87) Benzo(b)fluoranthene	16.51	252	1675679	88.32	ng	# 95
88) Benzo(k)fluoranthene	16.51	252	1675679	92.55	ng	98
89) Benzo(a)pyrene	17.02	252	695945	40.15	ng	97
90) Dibenzo(a,h)anthracene	19.13	278	123127	7.69	ng	# 87
91) Benzo(g,h,i)perylene	19.74	276	401491	24.52	ng	99

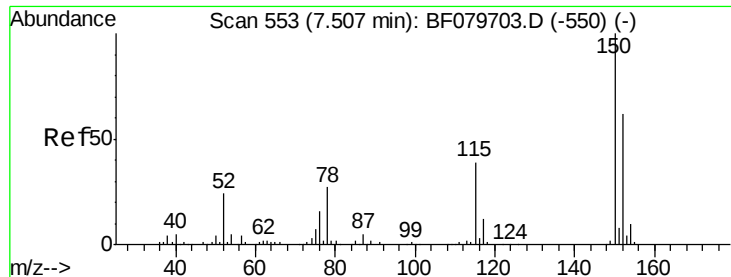
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 06 03:31:13 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.51 min Scan# 553

Delta R.T. 0.00 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

Instrument :

BNA_F

ClientSampleId :

SEC-3.4-SP

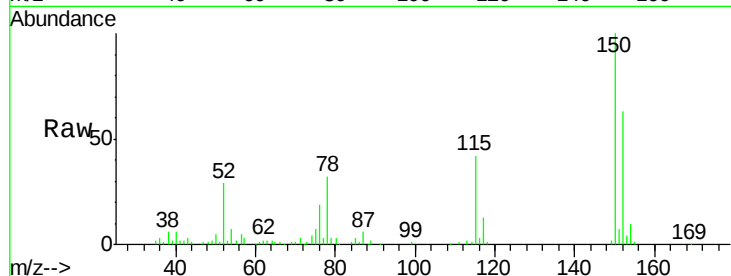
Tgt Ion:152 Resp: 64603

Ion Ratio Lower Upper

152 100

150 159.4 128.1 192.1

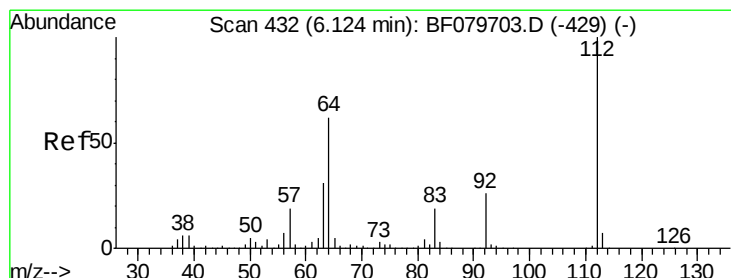
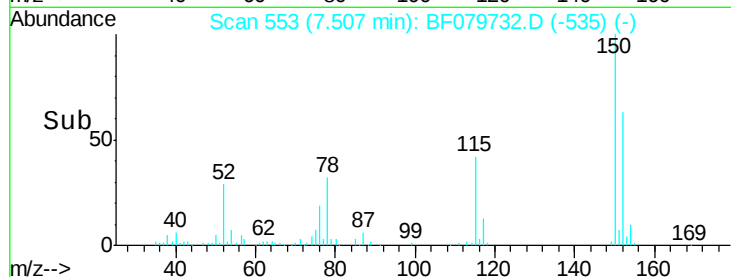
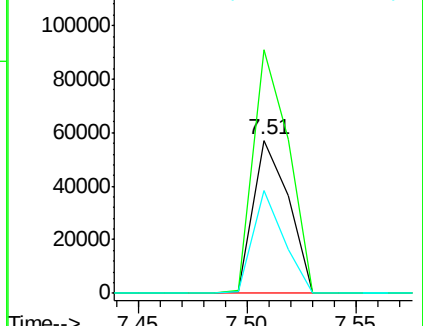
115 67.0 49.7 74.5



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: 117.90 ng

RT: 6.14 min Scan# 433

Delta R.T. 0.01 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

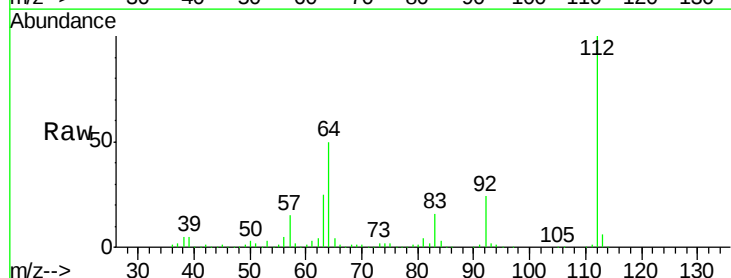
Tgt Ion:112 Resp: 444218

Ion Ratio Lower Upper

112 100

64 50.0 49.6 74.4

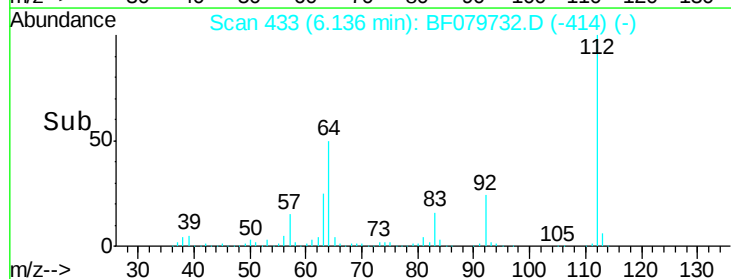
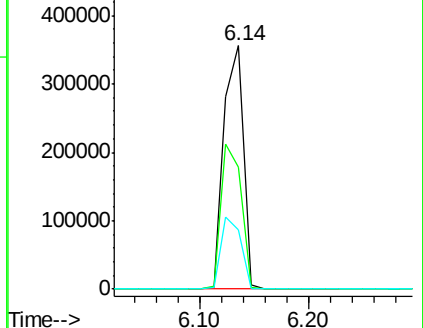
63 24.6 24.9 37.3#

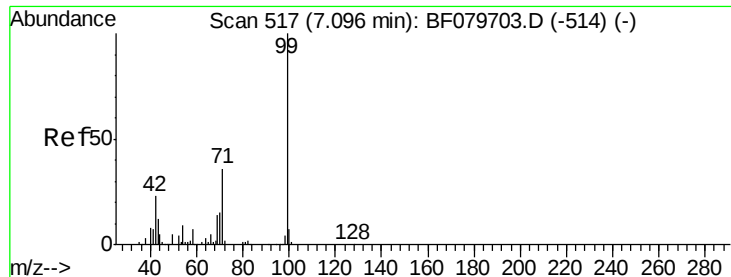


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 127.49 ng

RT: 7.11 min Scan# 518

Delta R.T. 0.01 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

Instrument :

BNA_F

ClientSampleId :

SEC-3.4-SP

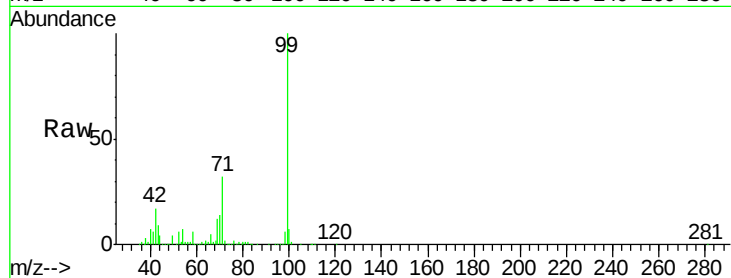
Tgt Ion: 99 Resp: 625270

Ion Ratio Lower Upper

99 100

42 17.3 18.0 27.0#

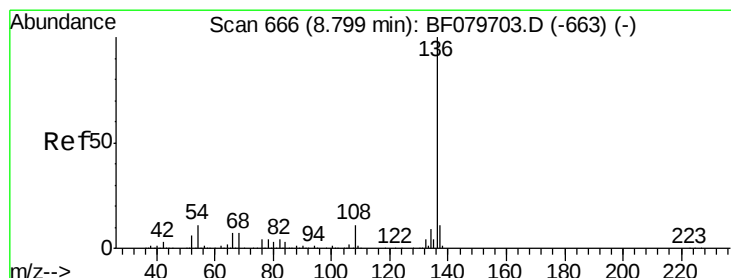
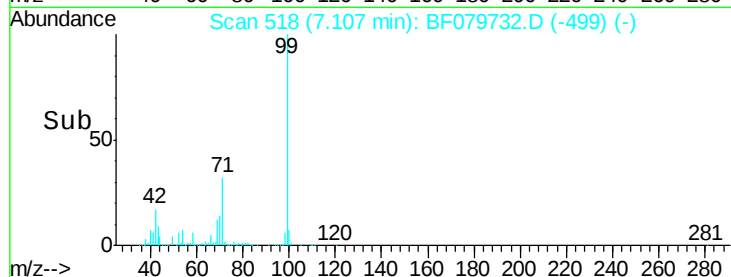
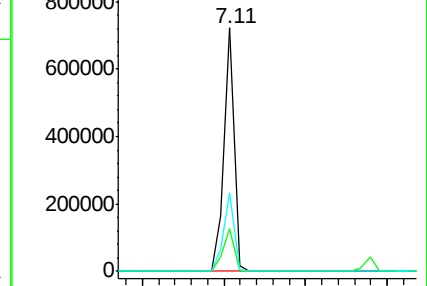
71 32.2 28.4 42.6



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: BF079732.D

Acq: 5 Jun 2015 7:37

Tgt Ion: 136 Resp: 253507

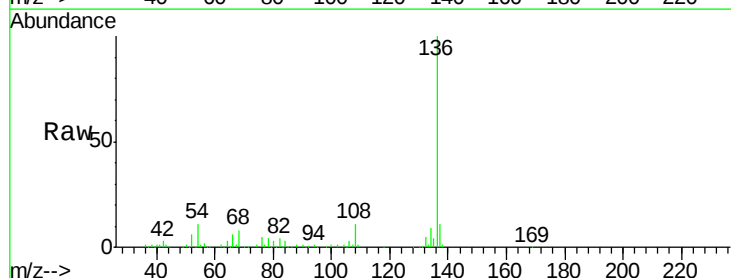
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 10.6 8.7 13.1

68 7.6 5.8 8.8

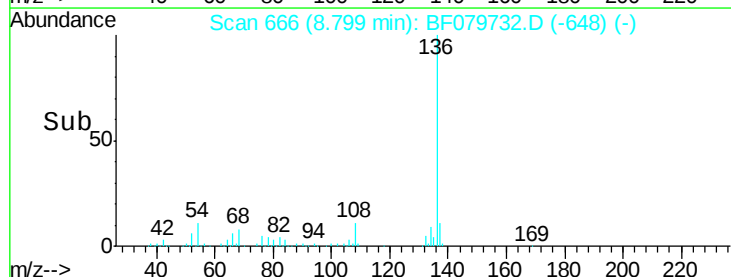
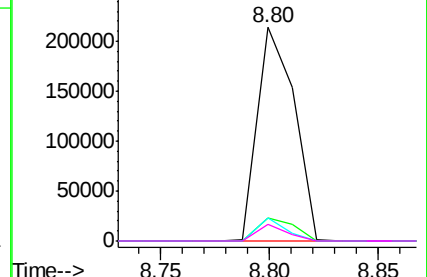


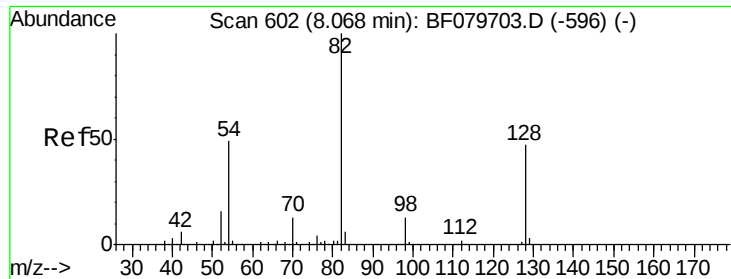
Abundance Ion 136.00 (135.70 to 136.70): E

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

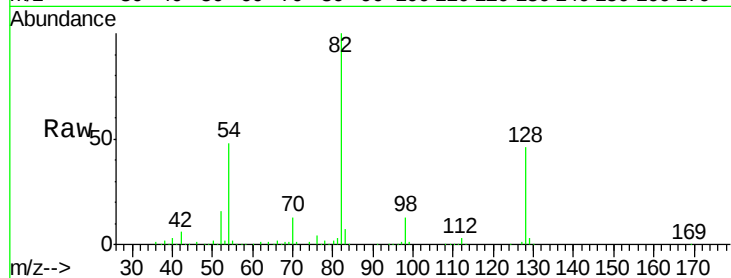




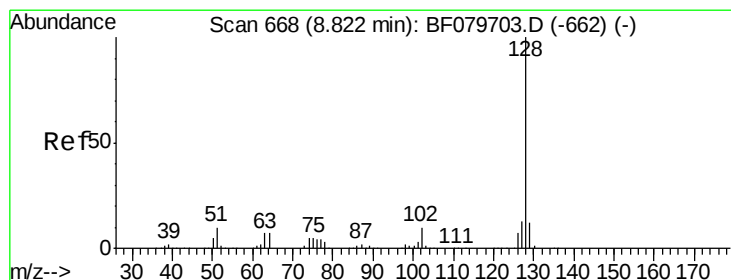
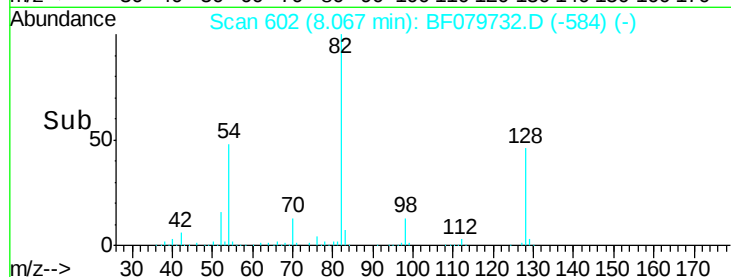
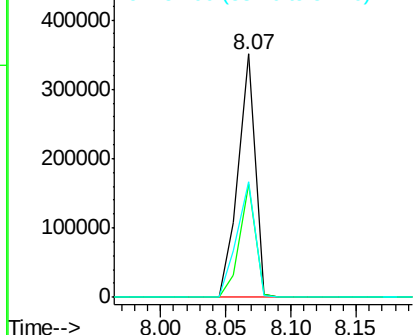
#23
Nitrobenzene-d5
Concen: 76.72 ng
RT: 8.07 min Scan# 602
Delta R.T. 0.00 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

Instrument :
BNA_F
ClientSampleId :
SEC-3.4-SP

Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.6	56.4
54	47.6	39.4	59.2

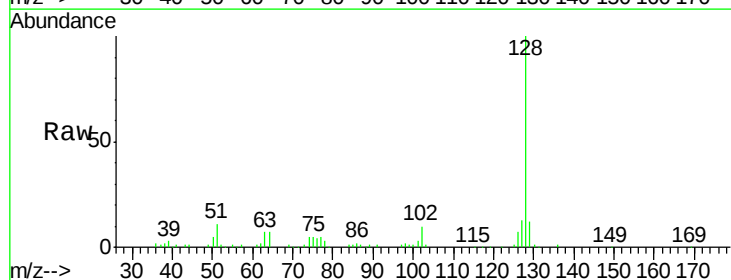


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

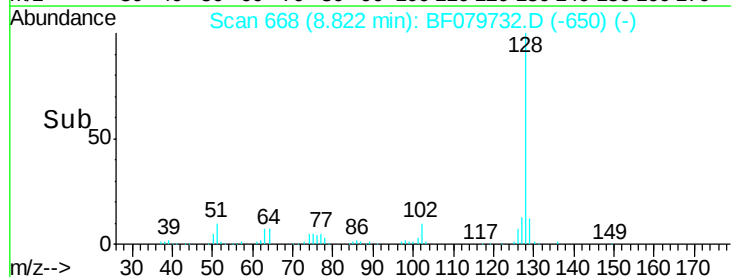
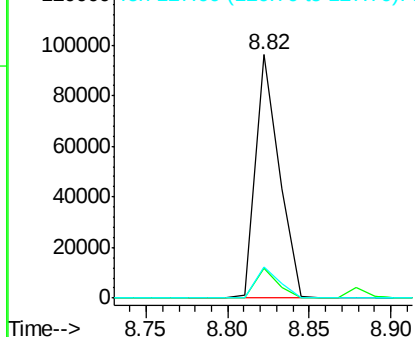


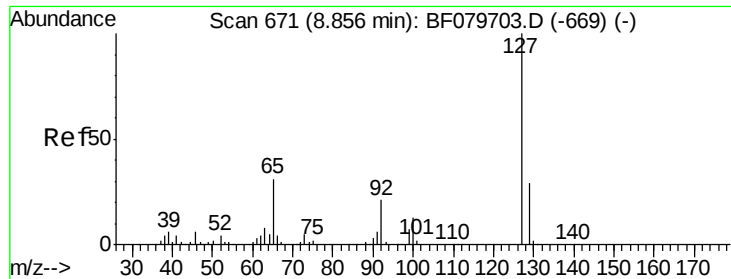
#31
Naphthalene
Concen: 6.95 ng
RT: 8.82 min Scan# 668
Delta R.T. 0.00 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.4	14.2
127	12.8	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

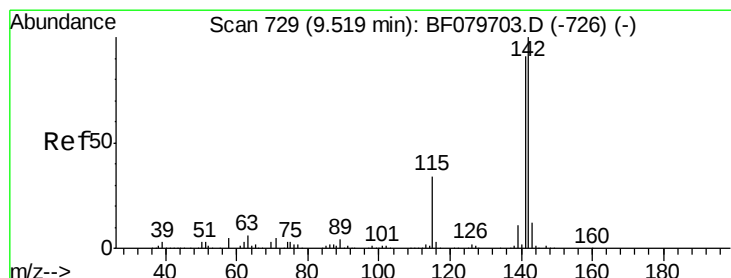
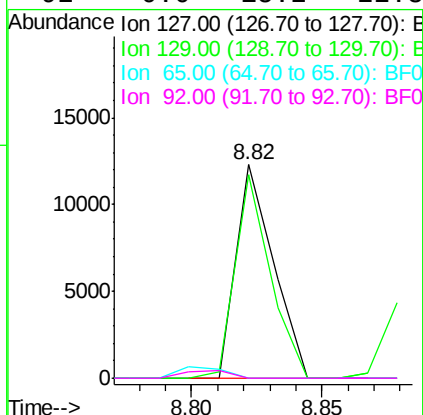
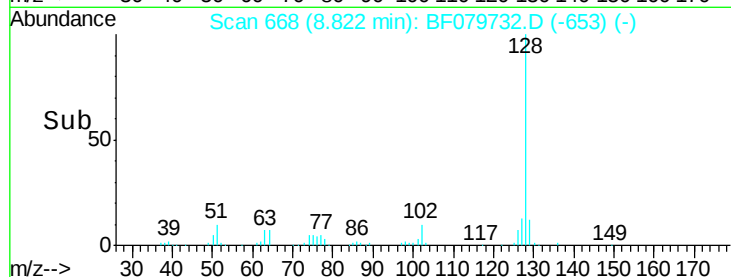
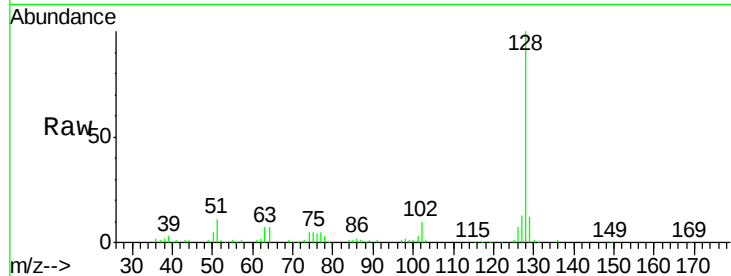




#33
4-Chloroaniline
Concen: 2.22 ng
RT: 8.82 min Scan# 668
Delta R.T. -0.03 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

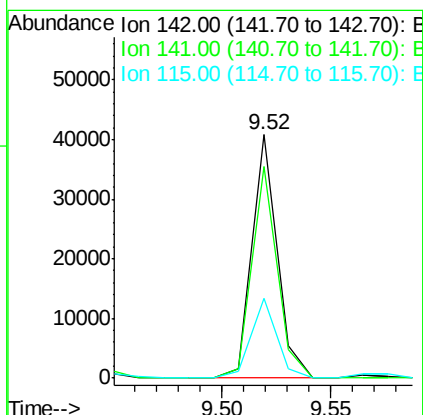
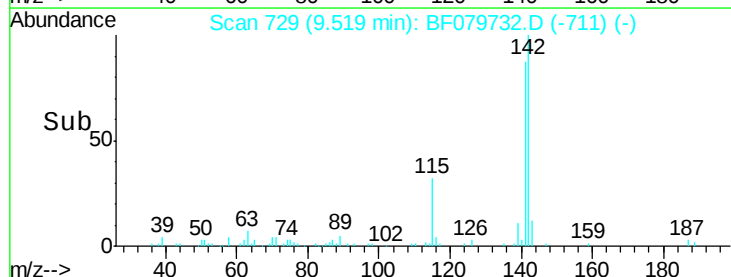
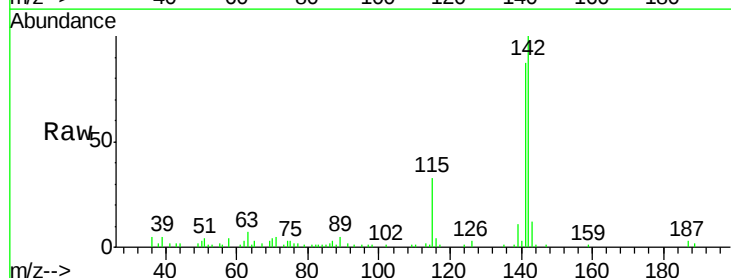
Instrument :
BNA_F
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SEC-3.4-SP

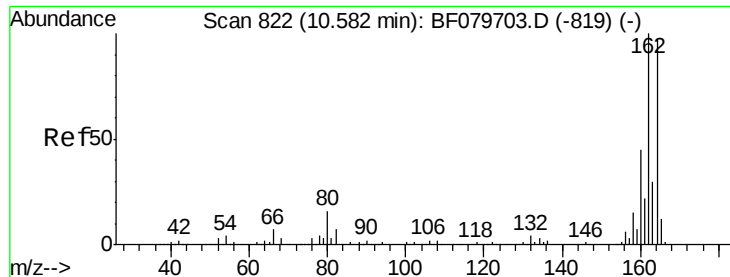
Tgt Ion:	127	Resp:	12314
Ion	Ratio	Lower	Upper
127	100		
129	95.3	26.8	40.2#
65	0.0	22.9	34.3#
92	0.0	15.2	22.8#



#37
2-Methylnaphthalene
Concen: 3.48 ng
RT: 9.52 min Scan# 729
Delta R.T. 0.00 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

Tgt Ion:	142	Resp:	32830
Ion	Ratio	Lower	Upper
142	100		
141	86.9	72.8	109.2
115	32.5	26.9	40.3

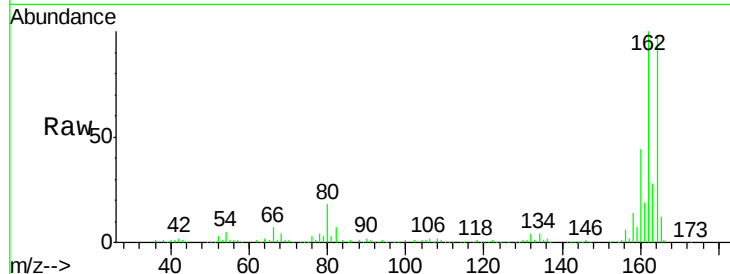




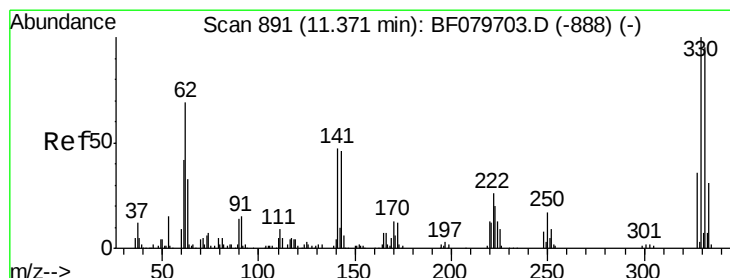
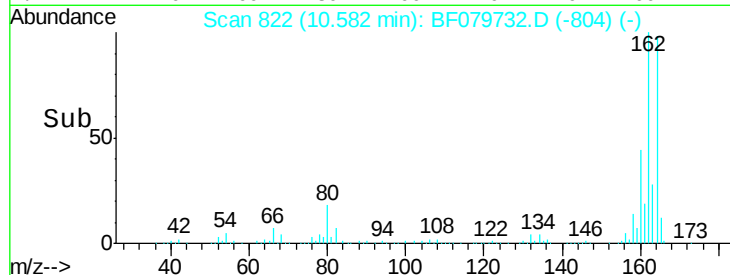
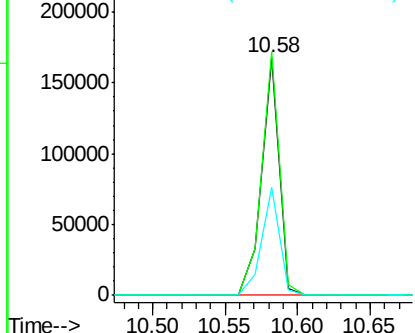
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.58 min Scan# 822
Delta R.T. 0.00 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

Instrument :
BNA_F
ClientSampleId :
SEC-3.4-SP

Tgt Ion:164 Resp: 141396
Ion Ratio Lower Upper
164 100
162 102.6 82.6 123.8
160 45.4 36.8 55.2

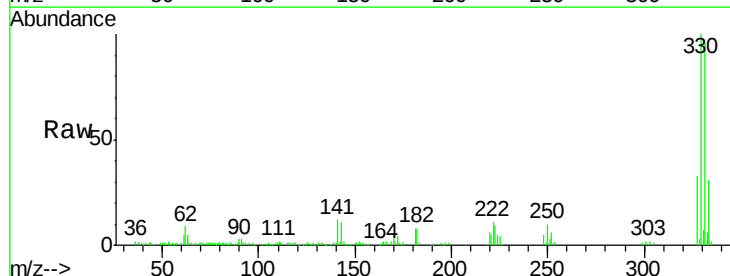


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

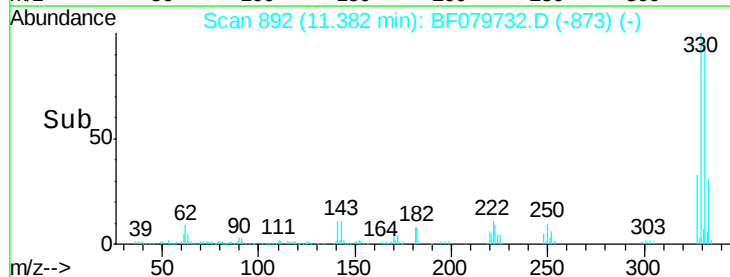
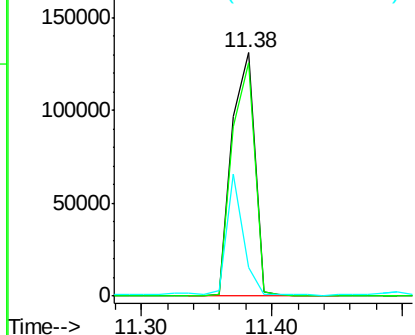


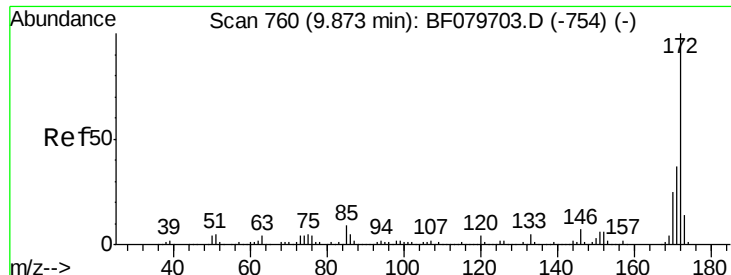
#41
2,4,6-Tribromophenol
Concen: 125.54 ng
RT: 11.38 min Scan# 892
Delta R.T. 0.01 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

Tgt Ion:330 Resp: 159402
Ion Ratio Lower Upper
330 100
332 94.9 77.4 116.0
141 37.5 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

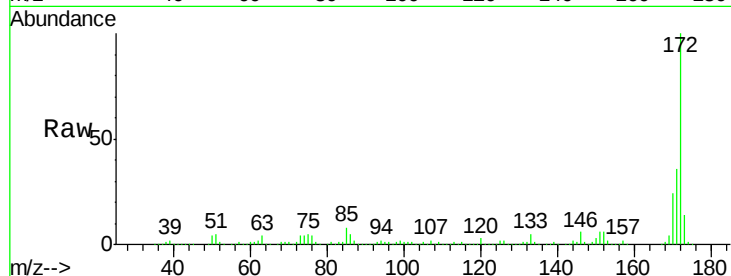




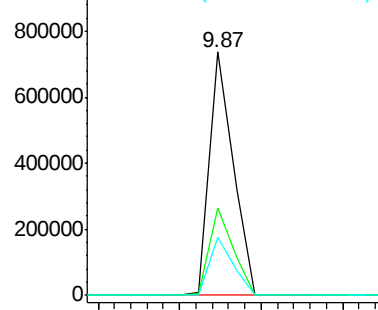
#44
2-Fluorobiphenyl
Concen: 74.99 ng
RT: 9.87 min Scan# 760
Delta R.T. 0.00 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

Instrument :
BNA_F
ClientSampleId :
SEC-3.4-SP

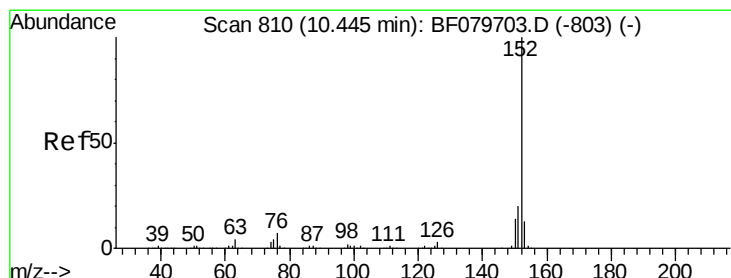
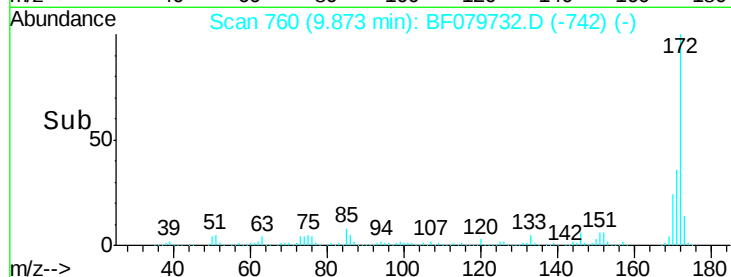
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.4	44.0
170	23.7	19.7	29.5



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

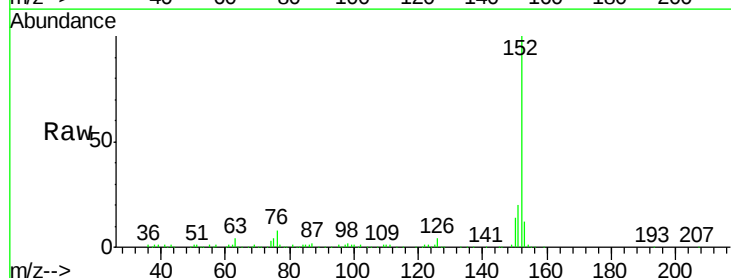


Time-->

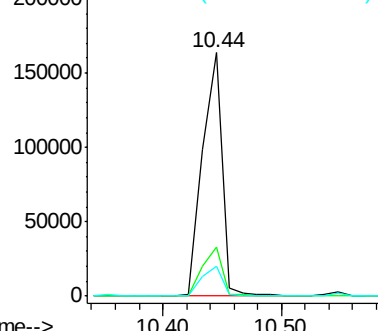


#48
Acenaphthylene
Concen: 11.92 ng
RT: 10.44 min Scan# 810
Delta R.T. 0.01 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

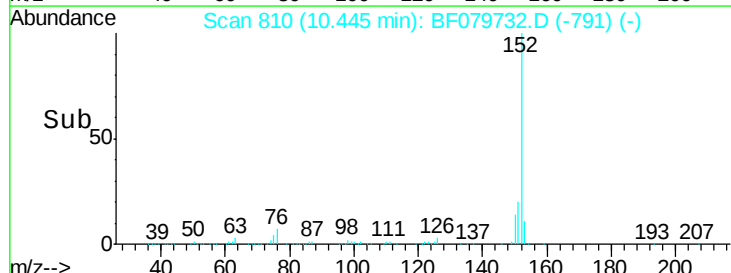
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	12.2	10.4	15.6

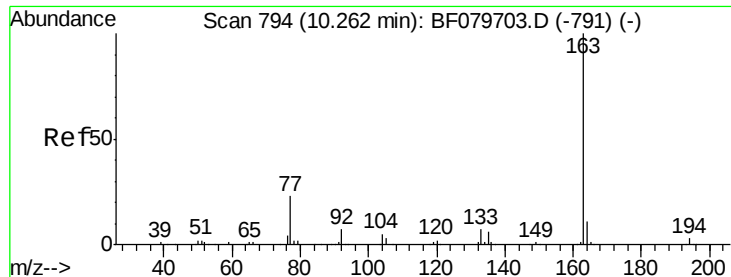


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



Time-->

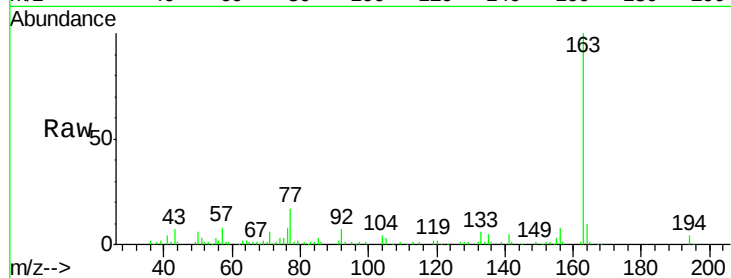




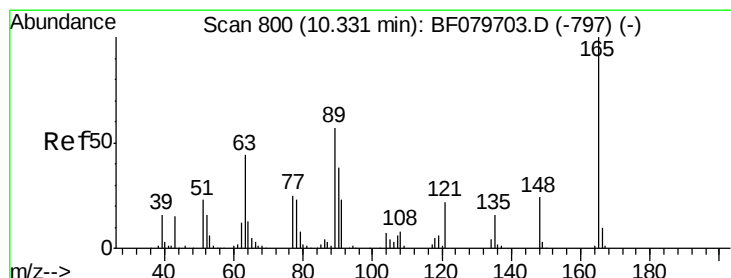
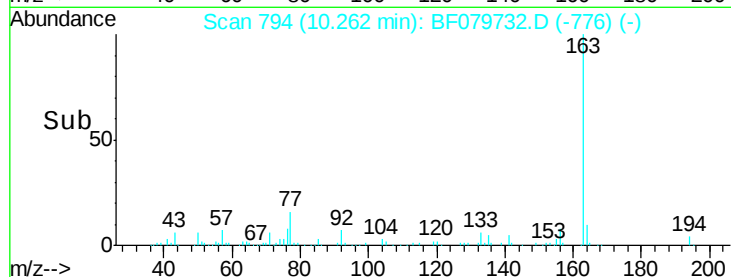
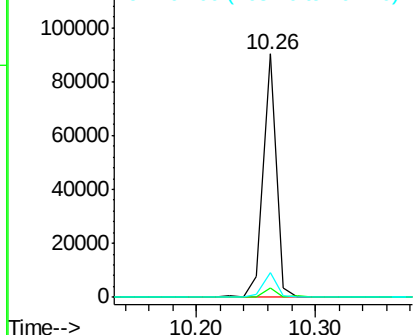
#49
Dimethylphthalate
Concen: 6.50 ng
RT: 10.26 min Scan# 794
Delta R.T. 0.00 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

Instrument :
BNA_F
ClientSampleId :
SEC-3.4-SP

Tgt Ion:163 Resp: 70790
Ion Ratio Lower Upper
163 100
194 3.7 2.6 3.8
164 9.9 8.5 12.7

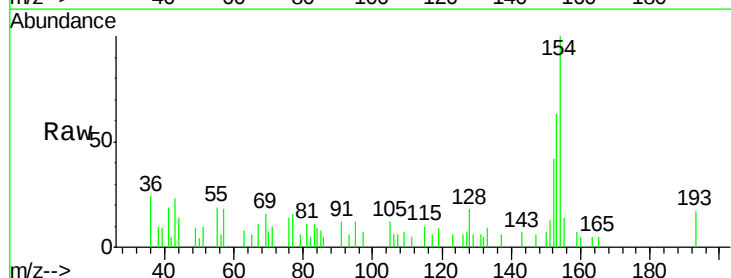


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

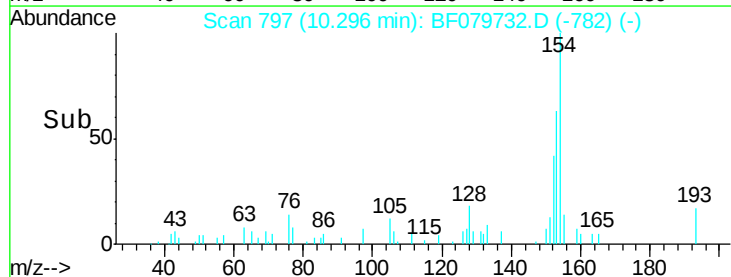
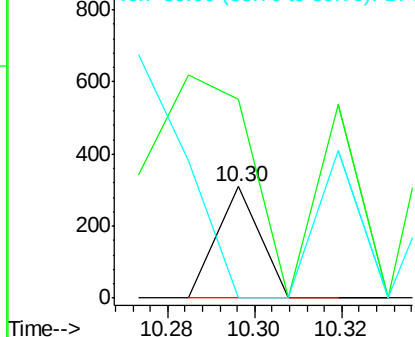


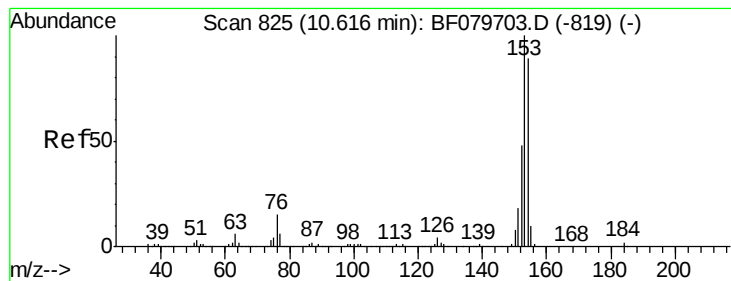
#50
2,6-Dinitrotoluene
Concen: 3.15 ng
RT: 10.30 min Scan# 797
Delta R.T. -0.03 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

Tgt Ion:165 Resp: 212
Ion Ratio Lower Upper
165 100
63 179.0 45.2 67.8#
89 0.0 45.9 68.9#



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





#51

Acenaphthene

Concen: 2.43 ng

RT: 10.62 min Scan# 825

Delta R.T. 0.00 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

Instrument :

BNA_F

ClientSampleId :

SEC-3.4-SP

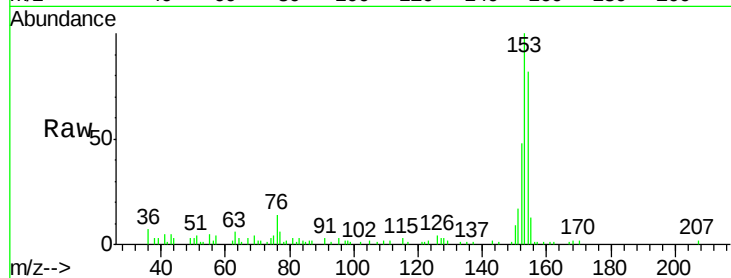
Tgt Ion:154 Resp: 22595

Ion Ratio Lower Upper

154 100

153 122.4 90.1 135.1

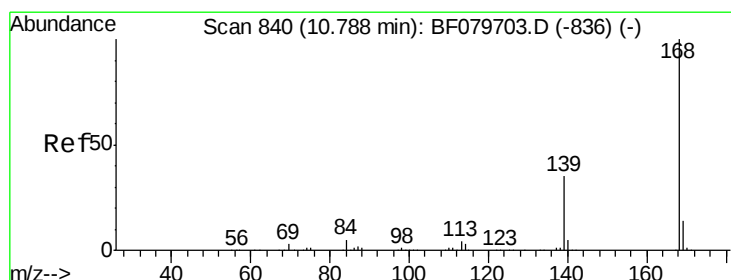
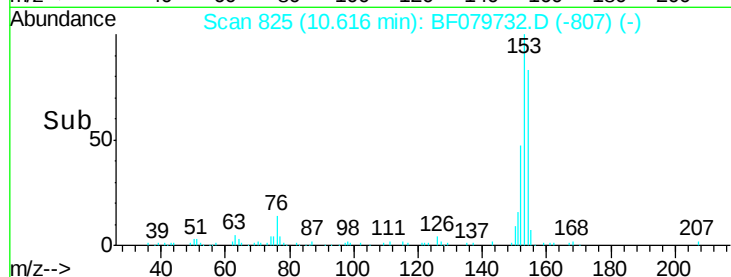
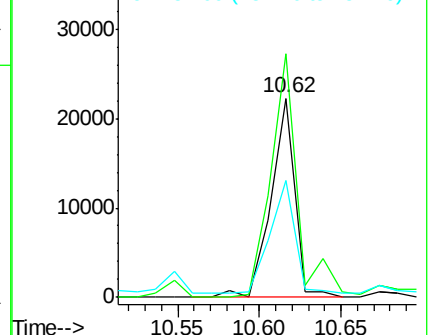
152 58.7 43.4 65.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.81 ng

RT: 10.79 min Scan# 840

Delta R.T. 0.00 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

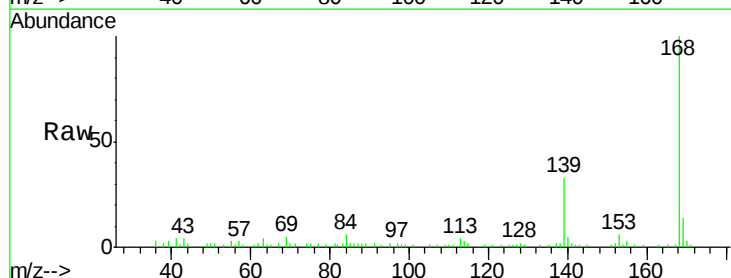
Tgt Ion:168 Resp: 37560

Ion Ratio Lower Upper

168 100

139 33.2 27.7 41.5

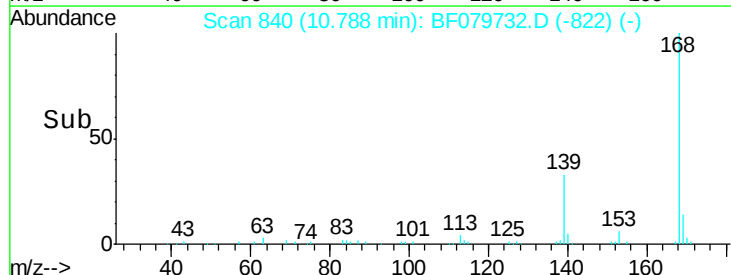
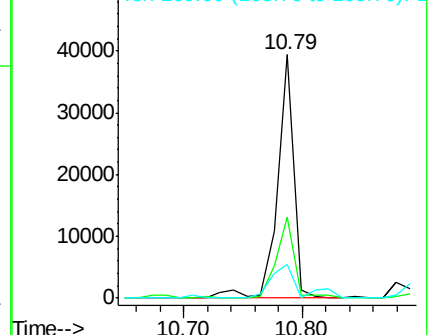
169 13.6 11.0 16.4

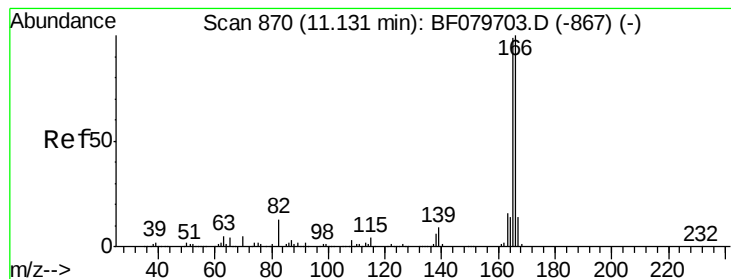


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 3.22 ng

RT: 11.13 min Scan# 870

Delta R.T. 0.00 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

Instrument :

BNA_F

ClientSampleId :

SEC-3.4-SP

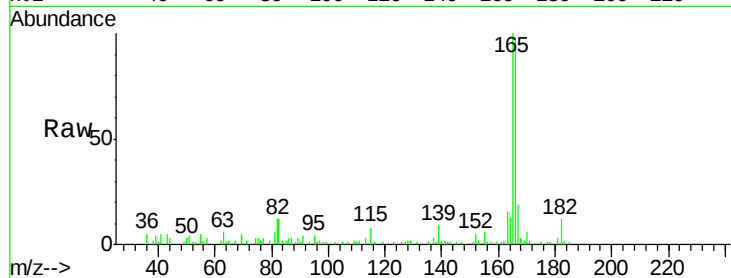
Tgt Ion:166 Resp: 36655

Ion Ratio Lower Upper

166 100

165 101.7 79.4 119.0

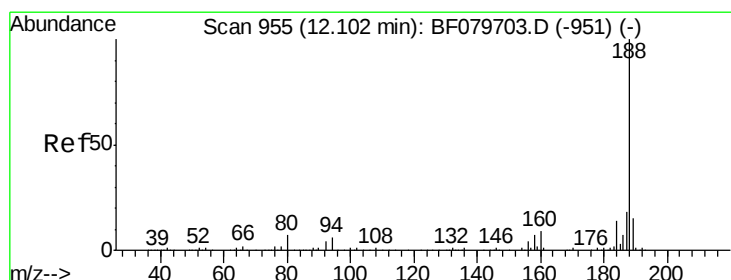
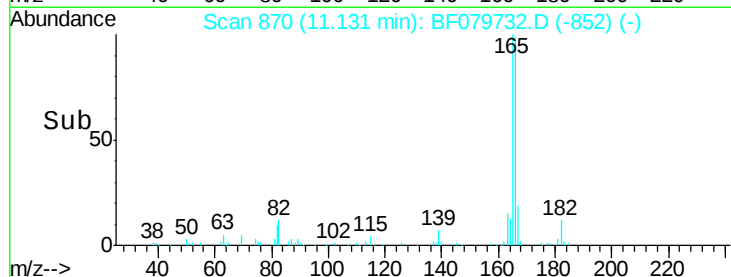
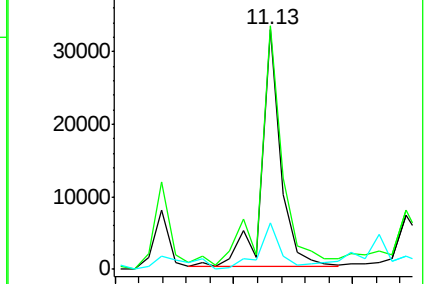
167 19.2 11.0 16.4#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.09 min Scan# 954

Delta R.T. 0.01 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

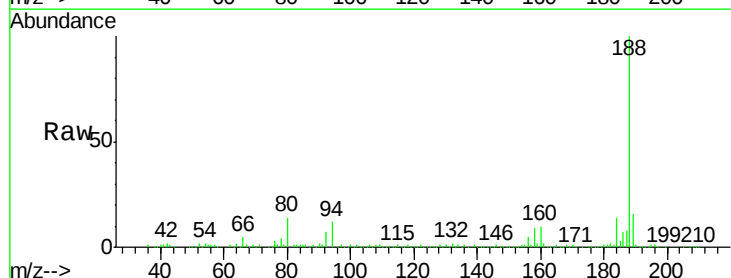
Tgt Ion:188 Resp: 273697

Ion Ratio Lower Upper

188 100

94 12.4 5.0 7.4#

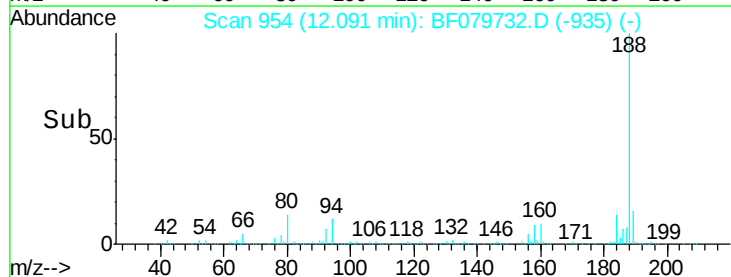
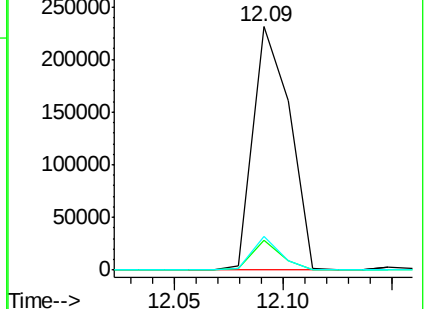
80 13.9 5.3 7.9#

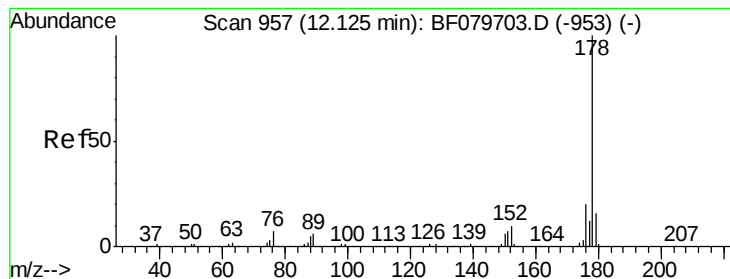


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 30.89 ng

RT: 12.13 min Scan# 957

Delta R.T. 0.01 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

Instrument :

BNA_F

ClientSampleId :

SEC-3.4-SP

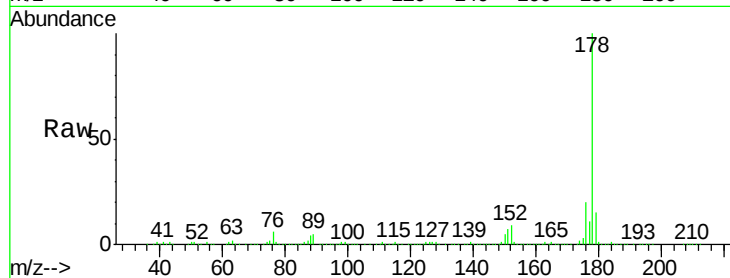
Tgt Ion:178 Resp: 491769

Ion Ratio Lower Upper

178 100

176 19.7 16.2 24.4

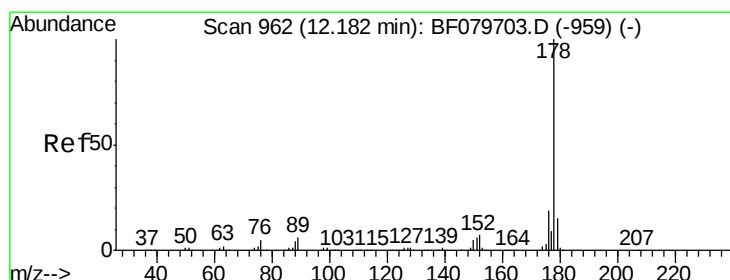
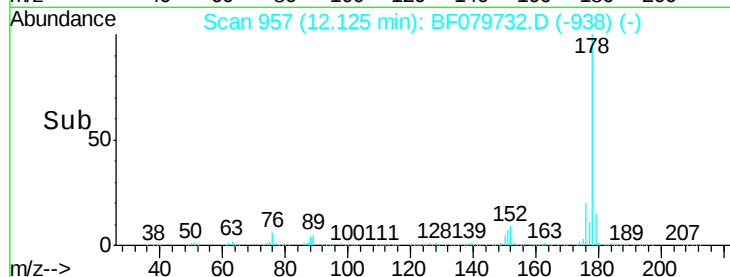
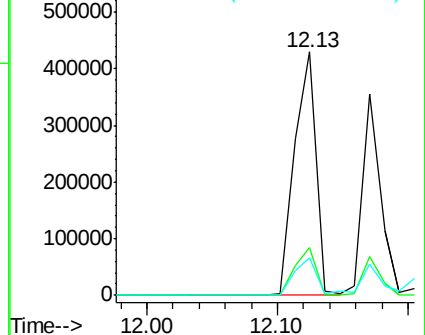
179 15.4 12.6 19.0



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: 21.56 ng

RT: 12.17 min Scan# 961

Delta R.T. 0.01 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

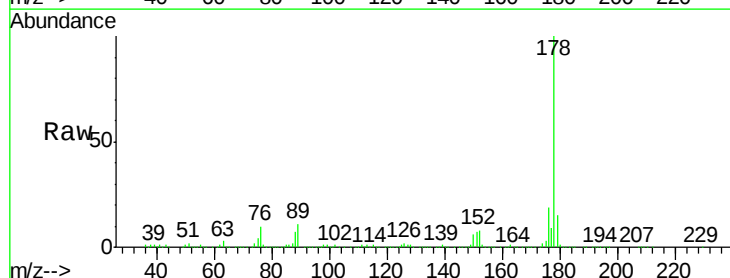
Tgt Ion:178 Resp: 339640

Ion Ratio Lower Upper

178 100

176 19.1 14.8 22.2

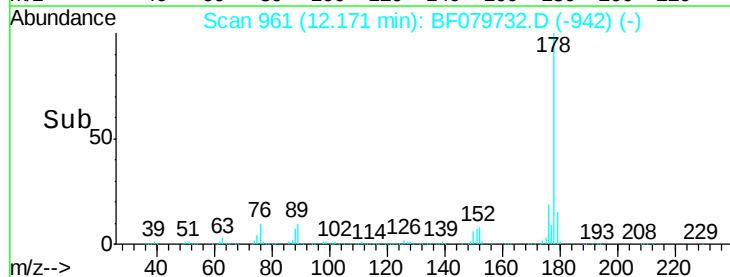
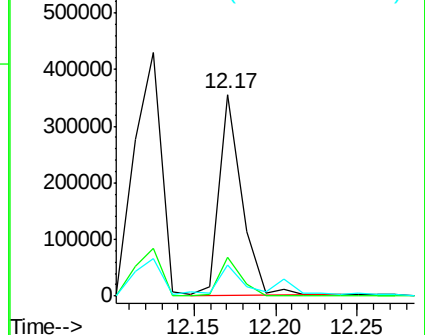
179 15.3 12.2 18.2

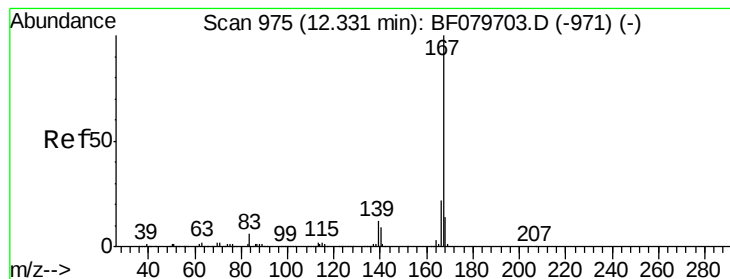


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 9.32 ng

RT: 12.32 min Scan# 974

Delta R.T. 0.01 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

Instrument :

BNA_F

ClientSampleId :

SEC-3.4-SP

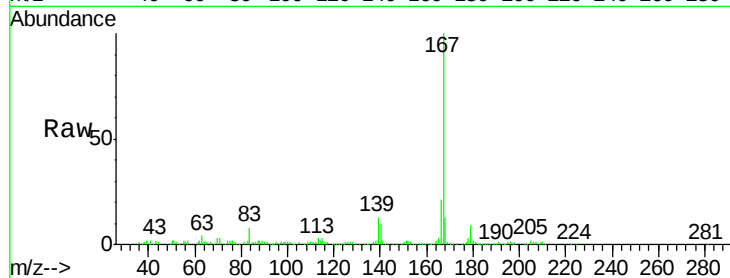
Tgt Ion:167 Resp: 136915

Ion Ratio Lower Upper

167 100

166 20.7 17.7 26.5

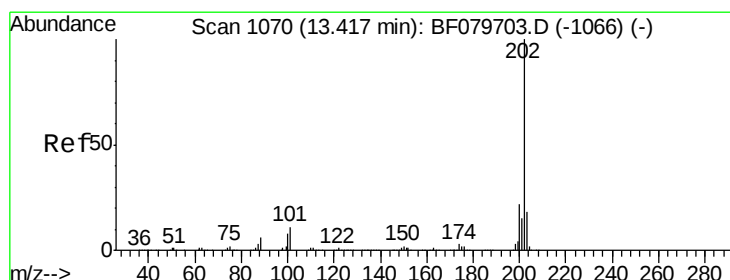
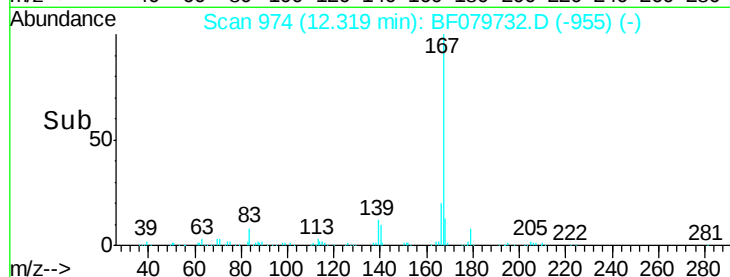
139 12.7 9.3 13.9



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 105.40 ng

RT: 13.41 min Scan# 1069

Delta R.T. 0.06 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

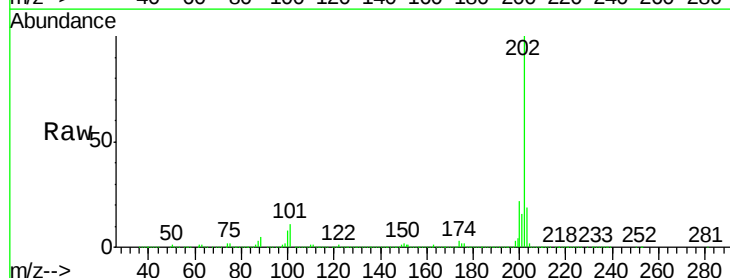
Tgt Ion:202 Resp: 1820301

Ion Ratio Lower Upper

202 100

101 10.8 0.0 31.3

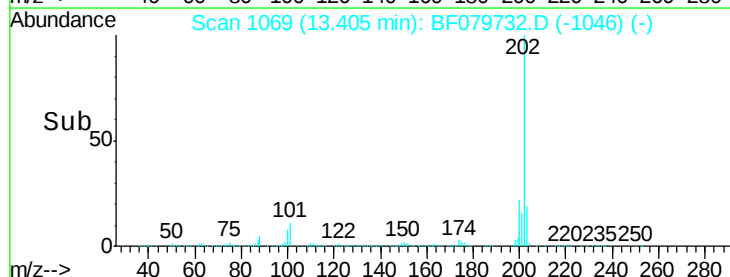
203 19.0 0.0 38.4

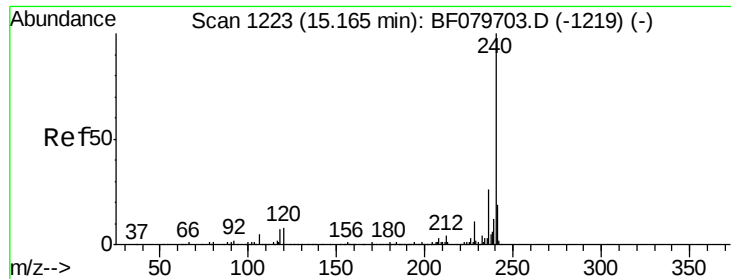


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.12 min Scan# 1219

Delta R.T. 0.14 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

Instrument :

BNA_F

ClientSampleId :

SEC-3.4-SP

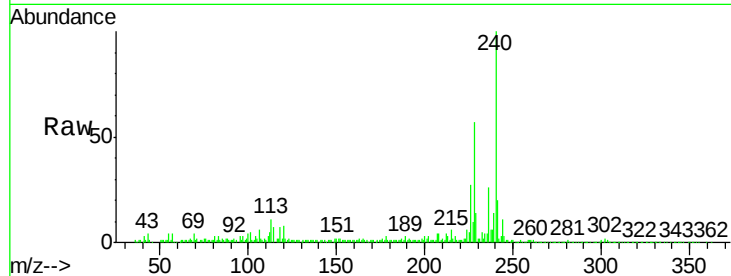
Tgt Ion:240 Resp: 292405

Ion Ratio Lower Upper

240 100

120 7.6 6.2 9.2

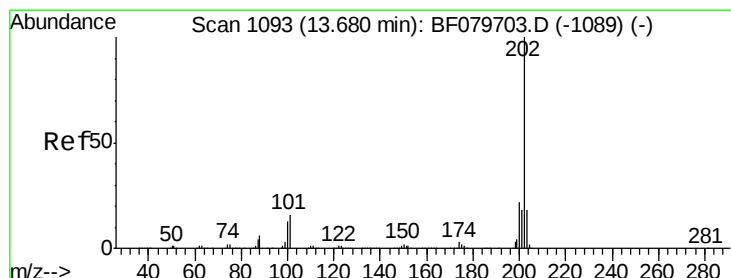
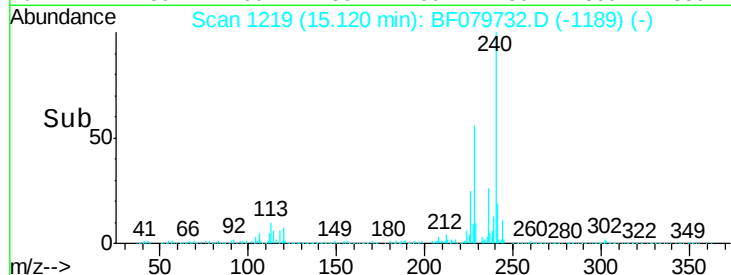
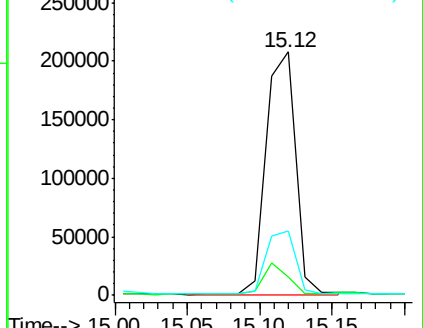
236 26.3 21.0 31.4



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: 91.42 ng

RT: 13.67 min Scan# 1092

Delta R.T. 0.07 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

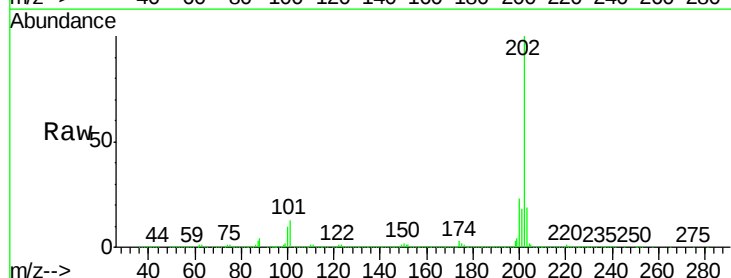
Tgt Ion:202 Resp: 1661043

Ion Ratio Lower Upper

202 100

200 22.6 17.5 26.3

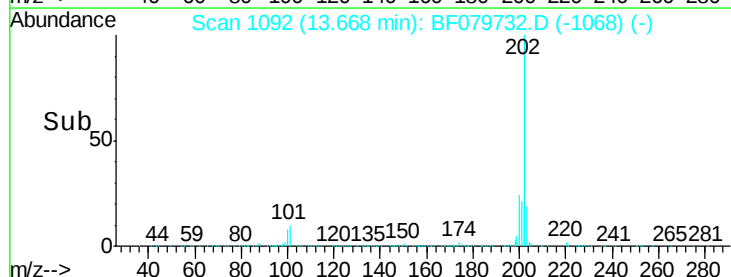
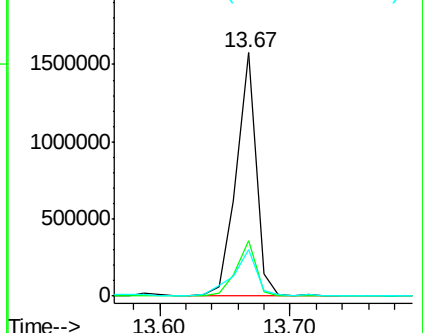
203 18.9 14.8 22.2

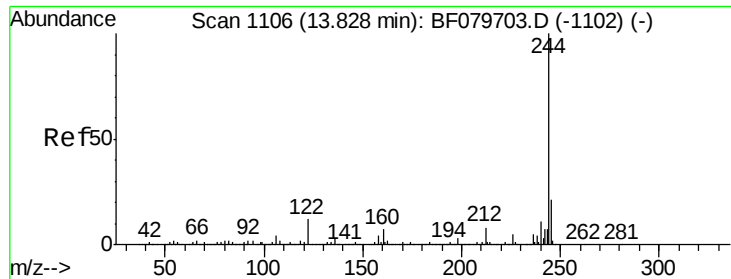


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 76.30 ng

RT: 13.81 min Scan# 1104

Delta R.T. 0.07 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

Instrument :

BNA_F

ClientSampleId :

SEC-3.4-SP

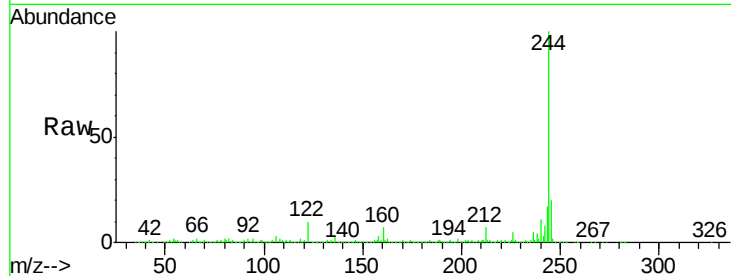
Tgt Ion:244 Resp: 946933

Ion Ratio Lower Upper

244 100

212 7.0 6.1 9.1

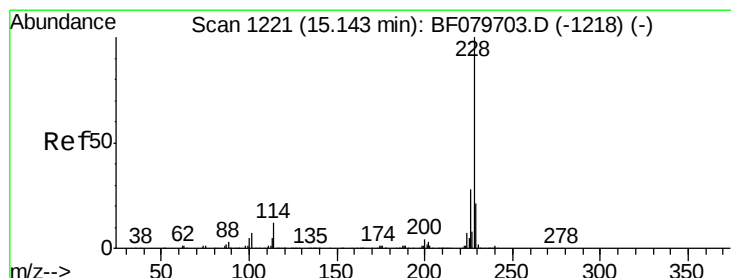
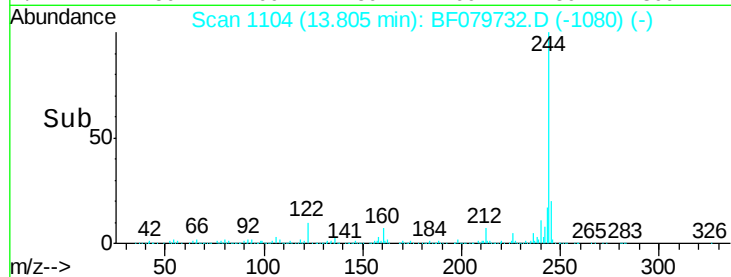
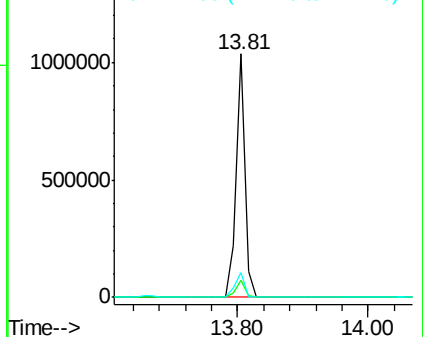
122 10.2 9.3 13.9



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: 54.39 ng

RT: 15.10 min Scan# 1217

Delta R.T. 0.13 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

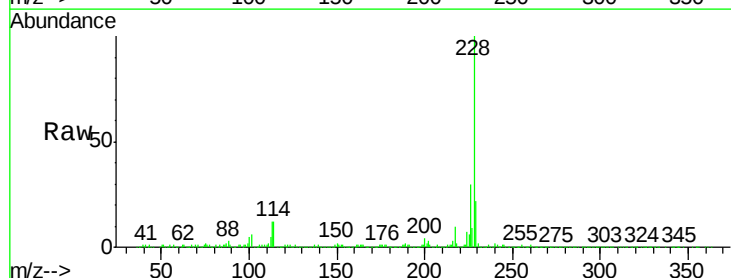
Tgt Ion:228 Resp: 972330

Ion Ratio Lower Upper

228 100

226 29.8 22.2 33.4

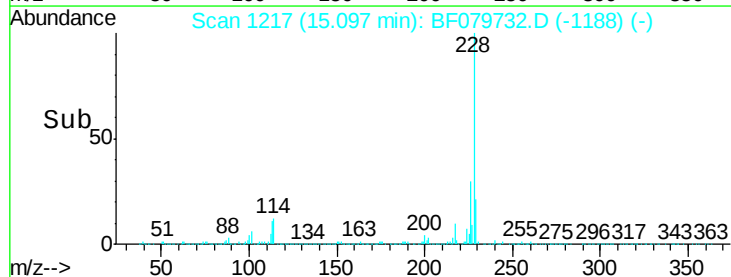
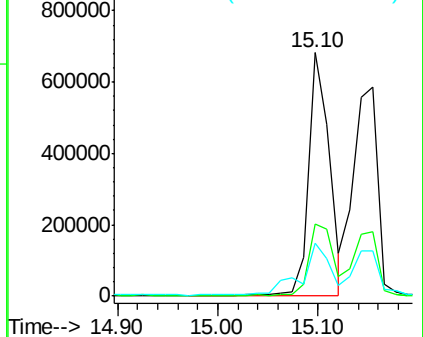
229 21.6 16.6 25.0

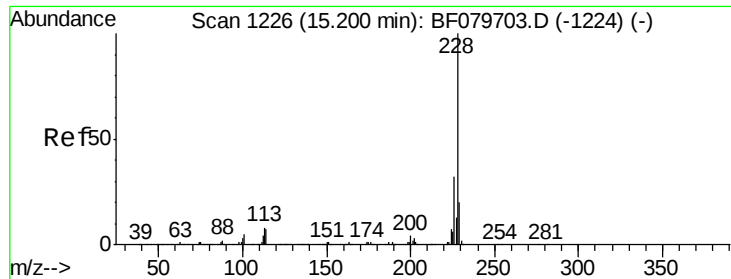


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 58.22 ng

RT: 15.15 min Scan# 1222

Delta R.T. 0.14 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

Instrument :

BNA_F

ClientSampleId :

SEC-3.4-SP

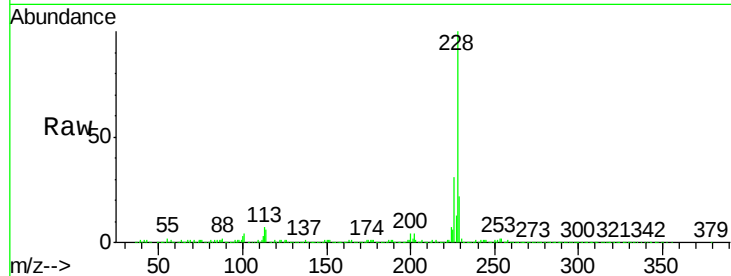
Tgt Ion:228 Resp: 973886

Ion Ratio Lower Upper

228 100

226 31.1 25.2 37.8

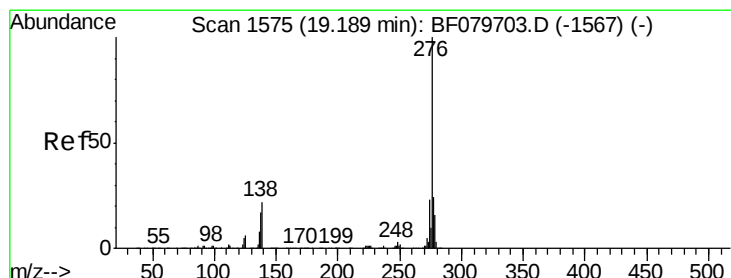
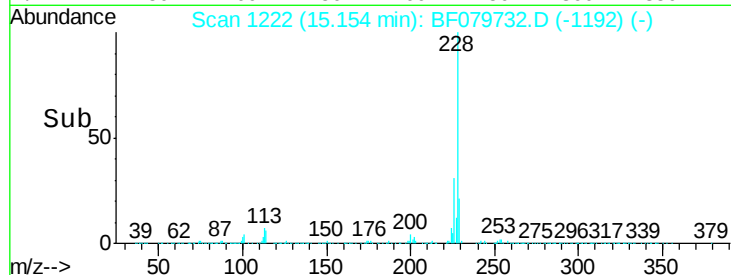
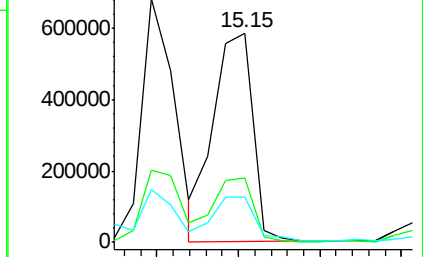
229 21.8 16.2 24.4



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: 23.65 ng

RT: 19.12 min Scan# 1569

Delta R.T. 0.19 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

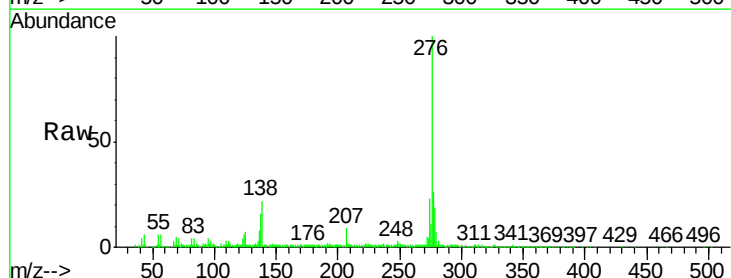
Tgt Ion:276 Resp: 446549

Ion Ratio Lower Upper

276 100

138 22.2 20.8 31.2

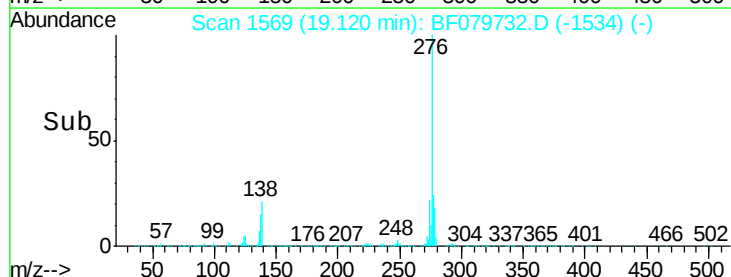
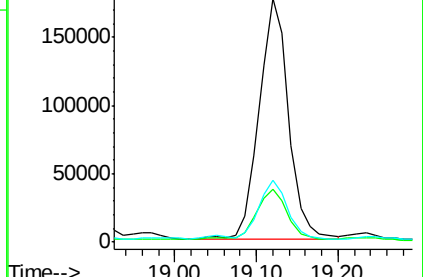
277 23.5 20.0 30.0

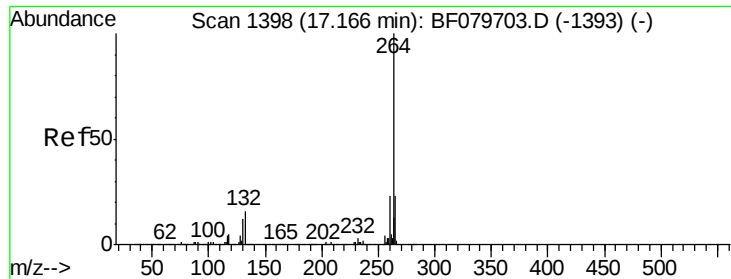


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

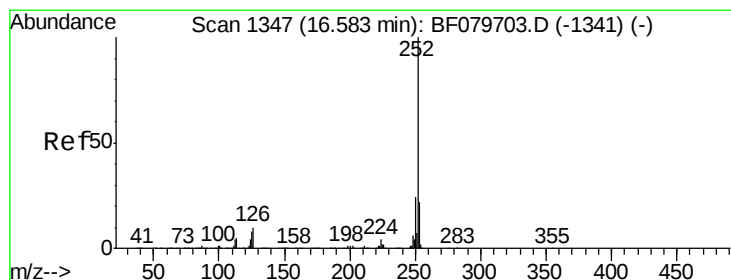
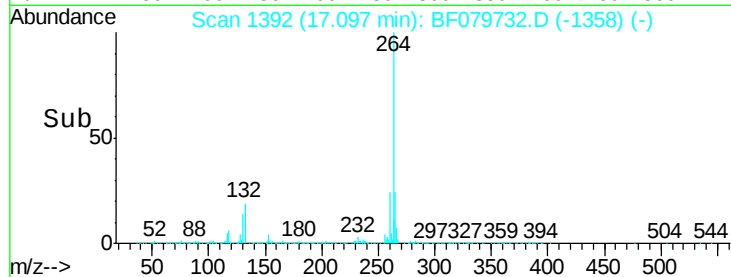
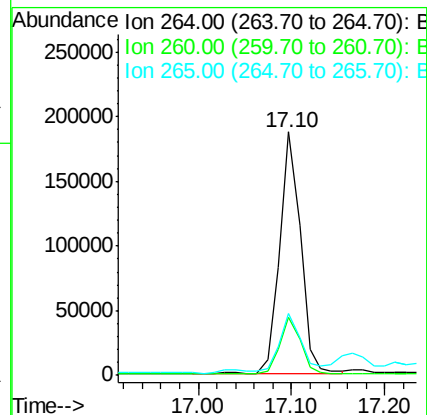
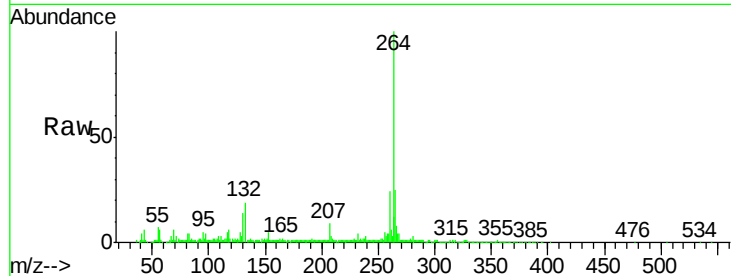




#86
Perylene-d12
Concen: 20.00 ng
RT: 17.10 min Scan# 1392
Delta R.T. 0.18 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

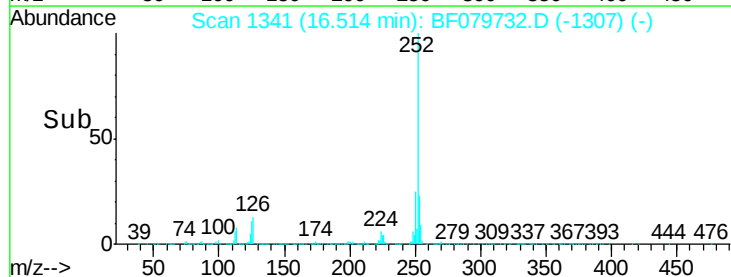
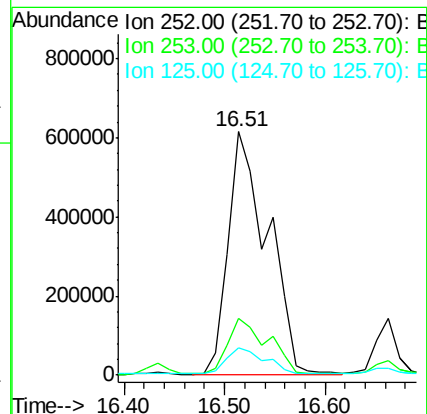
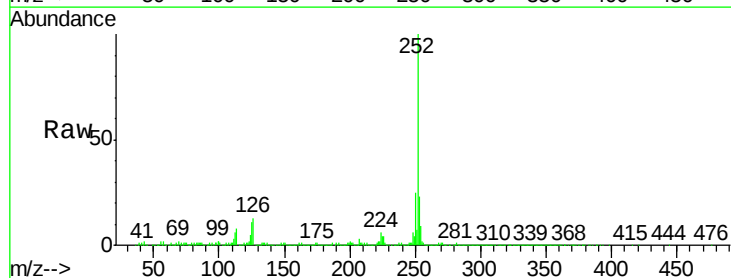
Instrument :
BNA_F
ClientSampleId :
SEC-3.4-SP

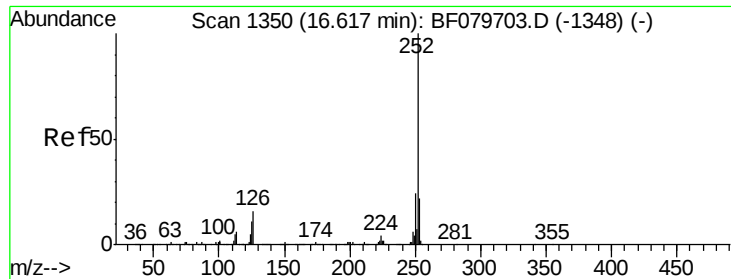
Tgt Ion: 264 Resp: 294133
Ion Ratio Lower Upper
264 100
260 24.1 18.6 27.8
265 25.4 18.2 27.4



#87
Benzo(b)fluoranthene
Concen: 88.32 ng
RT: 16.51 min Scan# 1341
Delta R.T. 0.18 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

Tgt Ion: 252 Resp: 1675679
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.2
125 11.1 6.5 9.7#

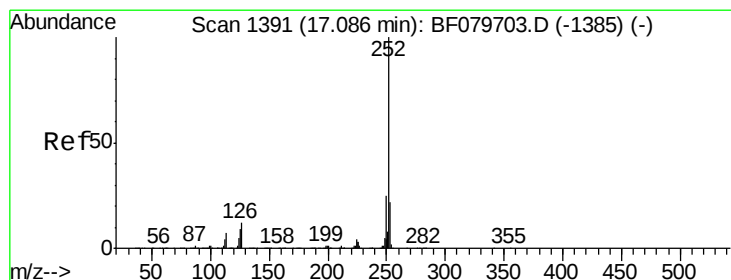
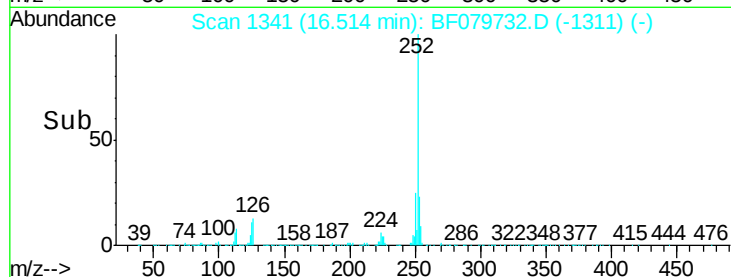
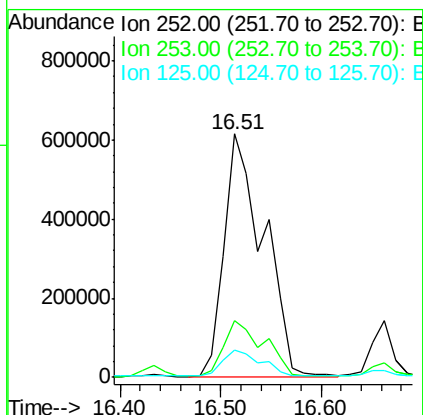
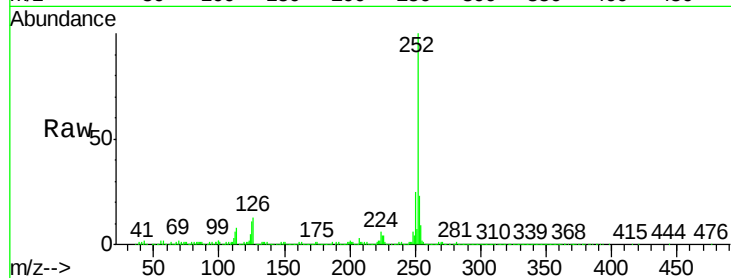




#88
Benzo(k)fluoranthene
Concen: 92.55 ng
RT: 16.51 min Scan# 1341
Delta R.T. 0.14 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

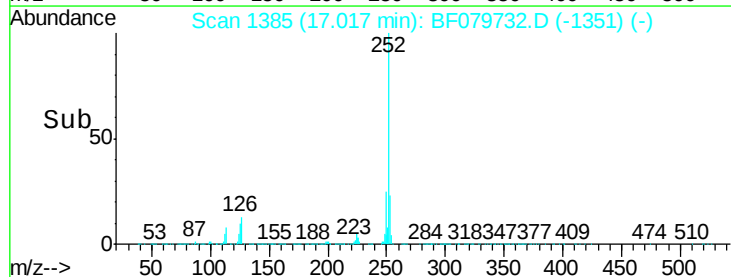
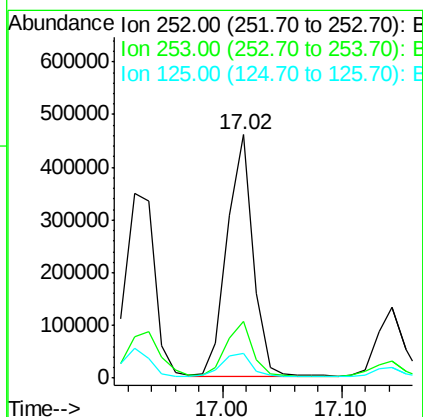
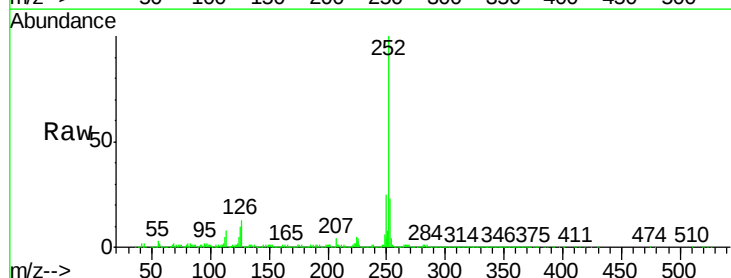
Instrument :
BNA_F
ClientSampleId :
SEC-3.4-SP

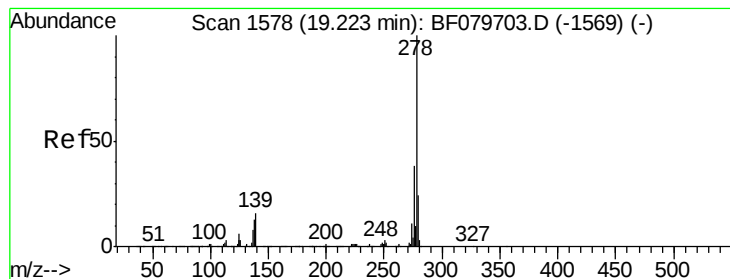
Tgt Ion:252 Resp: 1675679
Ion Ratio Lower Upper
252 100
253 23.4 17.8 26.8
125 11.1 8.4 12.6



#89
Benzo(a)pyrene
Concen: 40.15 ng
RT: 17.02 min Scan# 1385
Delta R.T. 0.18 min
Lab File: BF079732.D
Acq: 5 Jun 2015 7:37

Tgt Ion:252 Resp: 695945
Ion Ratio Lower Upper
252 100
253 23.3 17.6 26.4
125 10.4 7.4 11.0





#90

Dibenzo(a,h)anthracene

Concen: 7.69 ng

RT: 19.13 min Scan# 1570

Delta R.T. 0.18 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

Instrument :

BNA_F

ClientSampleId :

SEC-3.4-SP

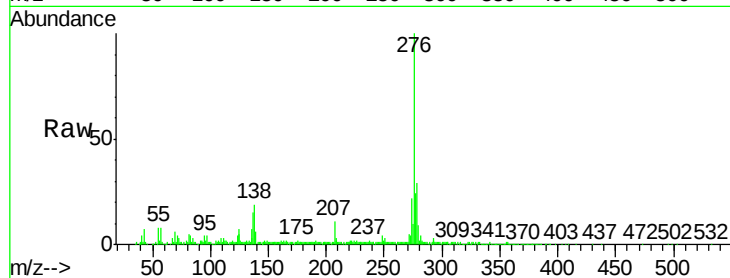
Tgt Ion:278 Resp: 123127

Ion Ratio Lower Upper

278 100

139 20.3 12.7 19.1#

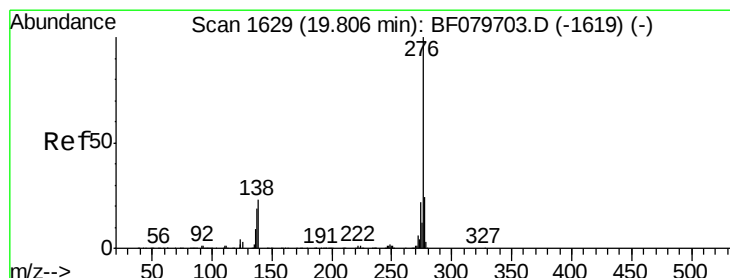
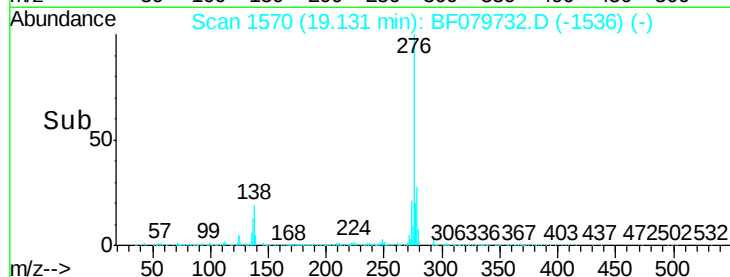
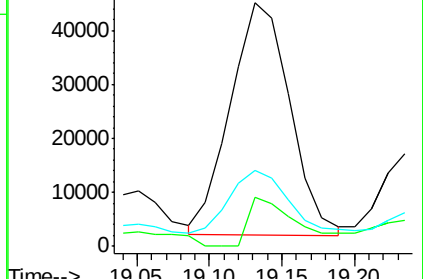
279 31.3 19.4 29.2#



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: 24.52 ng

RT: 19.74 min Scan# 1623

Delta R.T. 0.21 min

Lab File: BF079732.D

Acq: 5 Jun 2015 7:37

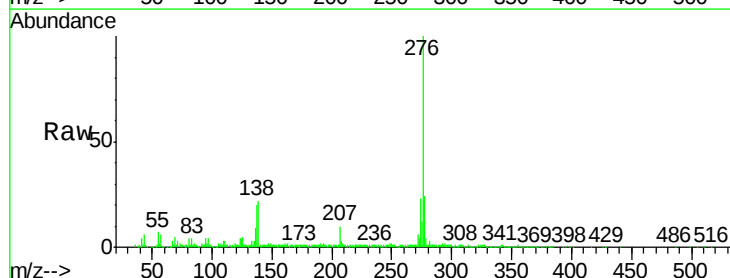
Tgt Ion:276 Resp: 401491

Ion Ratio Lower Upper

276 100

277 24.0 18.8 28.2

138 22.3 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

