

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051415\
 Data File : BF079252.D
 Acq On : 15 May 2015 1:23
 Operator : TP/IZ
 Sample : G2216-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TW-4

Quant Time: May 15 04:06:26 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 15 02:17:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.22	152	48012	20.00	ng	0.00
21) Naphthalene-d8	8.81	136	119900	20.00	ng	0.01
38) Acenaphthene-d10	10.97	164	100663	20.00	ng	0.00
63) Phenanthrene-d10	12.81	188	192837	20.00	ng	0.00
75) Chrysene-d12	16.09	240	231371	20.00	ng	-0.15
86) Perylene-d12	17.78	264	249769	20.00	ng	-0.51

System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	162795	58.37	ng	0.00
7) Phenol-d6	6.79	99	148449	40.26	ng	0.00
23) Nitrobenzene-d5	7.92	82	286248	137.21	ng	0.01
41) 2,4,6-Tribromophenol	11.95	330	158544	145.59	ng	0.00
44) 2-Fluorobiphenyl	10.14	172	611809	84.68	ng	-0.01
78) Terphenyl-d14	0.00	244	0	0.00	ng	

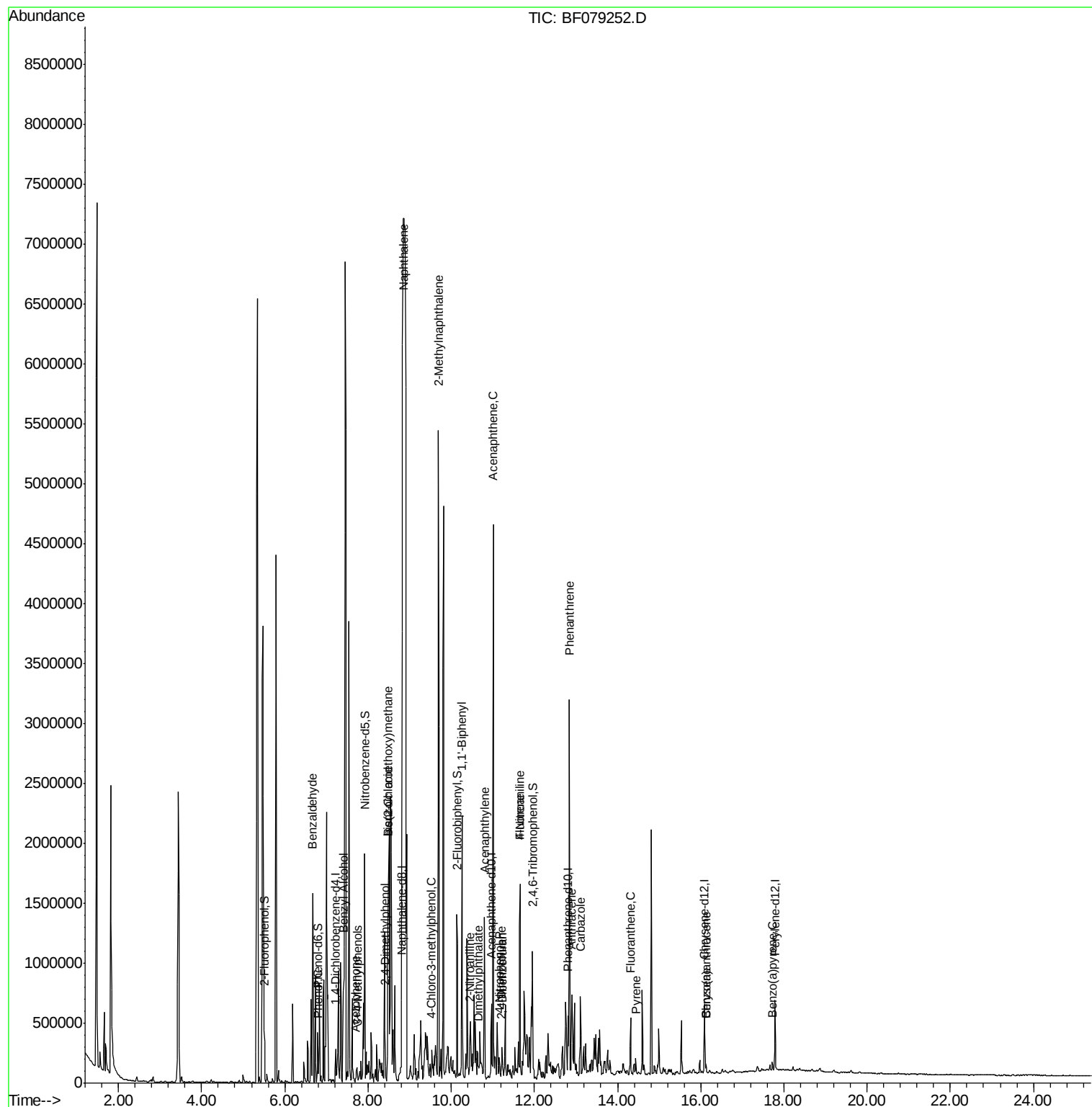
Target Compounds						Qvalue
9) Benzaldehyde	6.67	77	64994	26.17	ng	# 1
10) Phenol	6.80	94	49331	11.53	ng	94
15) Benzyl Alcohol	7.42	79	9980	3.65	ng	# 56
20) 3+4-Methylphenols	7.75	107	21204	6.25	ng	# 44
22) Acetophenone	7.71	105	37880	13.98	ng	# 52
27) 2,4-Dimethylphenol	8.41	122	87049	50.82	ng	99
28) bis(2-Chloroethoxy)methane	8.49	93	15288	6.41	ng	# 1
31) Naphthalene	8.86	128	11539205	2019.77	ng	# 92
32) Benzoic acid	8.49	122	1405	7.45	ng	# 1
36) 4-Chloro-3-methylphenol	9.53	107	4346	2.72	ng	# 1
37) 2-Methylnaphthalene	9.69	142	2265352	572.20	ng	# 97
45) 1,1'-Biphenyl	10.26	154	700969	87.59	ng	96
47) 2-Nitroaniline	10.44	65	5849	3.23	ng	# 48
48) Acenaphthylene	10.80	152	665429	64.93	ng	98
49) Dimethylphthalate	10.65	163	34091	4.61	ng	# 99
51) Acenaphthene	11.02	154	1130334	184.94	ng	99
54) Dibenzofuran	11.22	168	73946	8.38	ng	96
55) 4-Nitrophenol	11.15	139	5043	3.50	ng	# 23
56) 2,4-Dinitrotoluene	11.21	165	4753	2.47	ng	# 70
57) Fluorene	11.66	166	703705	97.11	ng	100
61) 4-Nitroaniline	11.66	138	9377	5.15	ng	# 32
70) Phenanthrene	12.85	178	1278807	118.54	ng	98
71) Anthracene	12.90	178	265568	25.09	ng	100
72) Carbazole	13.11	167	258719	25.65	ng	99
74) Fluoranthene	14.32	202	222295	19.77	ng	93
77) Pyrene	14.43	202	55174	4.14	ng	99
80) Benzo(a)anthracene	16.13	228	32301	2.55	ng	95
82) Chrysene	16.13	228	32301	2.65	ng	98
89) Benzo(a)pyrene	17.71	252	30199	2.40	ng	# 96

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.22 min Scan# 528

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampled :

TW-4

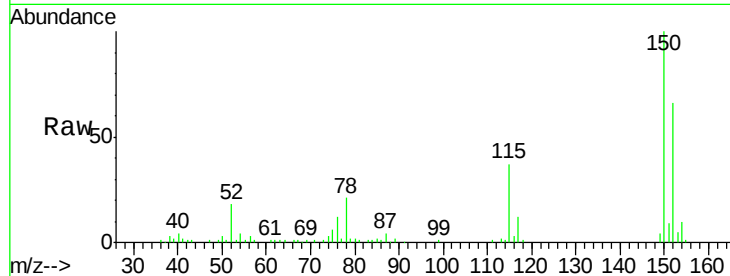
Tgt Ion:152 Resp: 48012

Ion Ratio Lower Upper

152 100

150 151.7 123.8 185.8

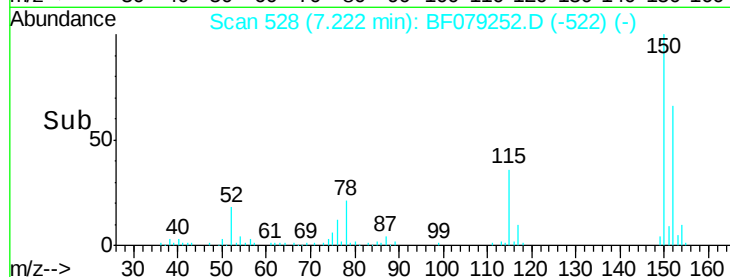
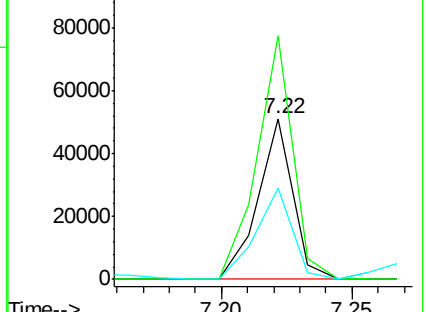
115 56.6 49.4 74.0



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: 58.37 ng

RT: 5.51 min Scan# 378

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

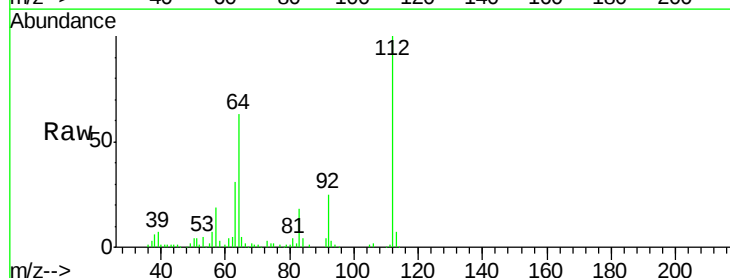
Tgt Ion:112 Resp: 162795

Ion Ratio Lower Upper

112 100

64 62.9 44.2 66.2

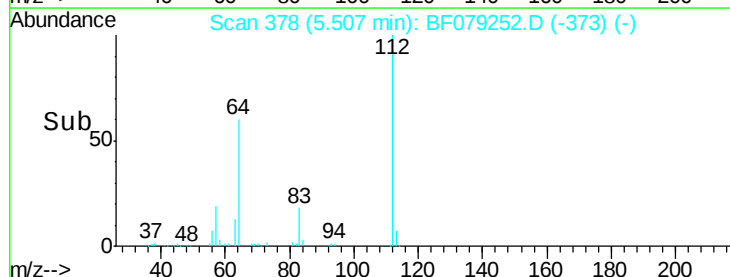
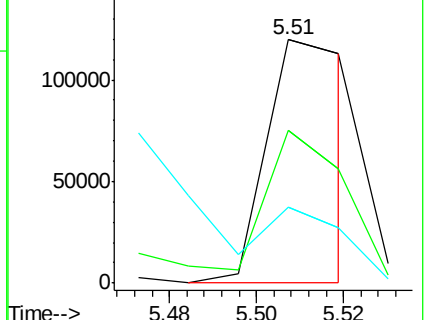
63 30.9 22.7 34.1

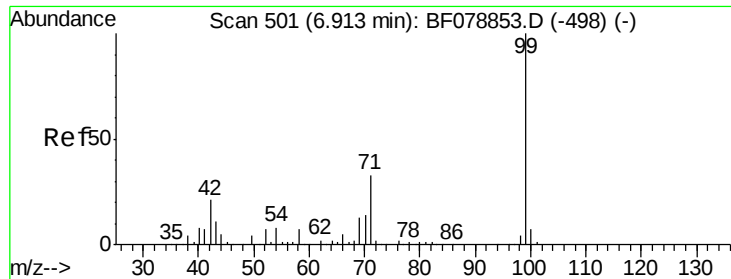


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 40.26 ng

RT: 6.79 min Scan# 490

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

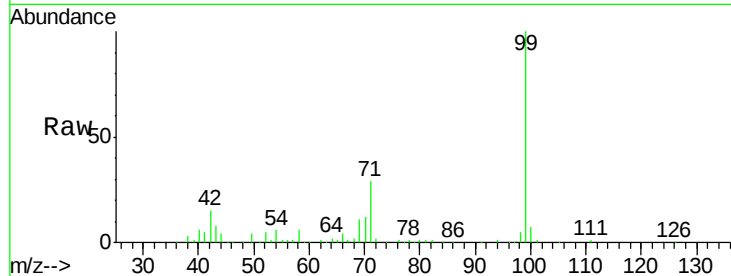
Tgt Ion: 99 Resp: 148449

Ion Ratio Lower Upper

99 100

42 14.9 17.1 25.7#

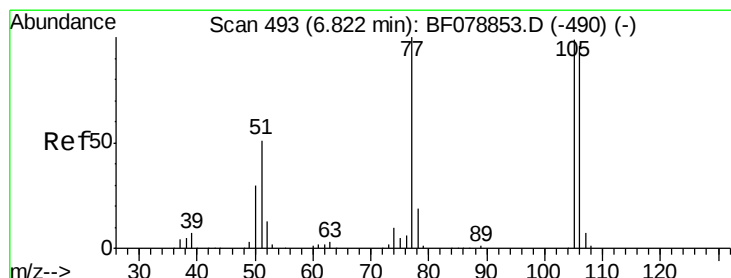
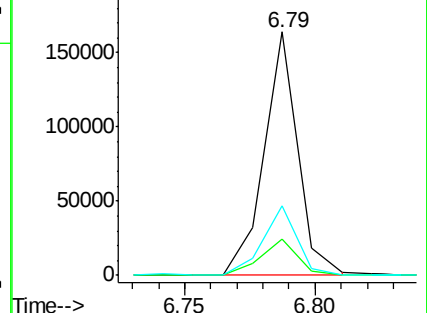
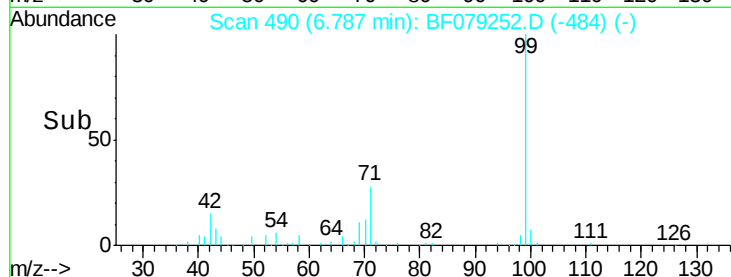
71 28.5 26.3 39.5



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



#9

Benzaldehyde

Concen: 26.17 ng

RT: 6.67 min Scan# 480

Delta R.T. 0.01 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

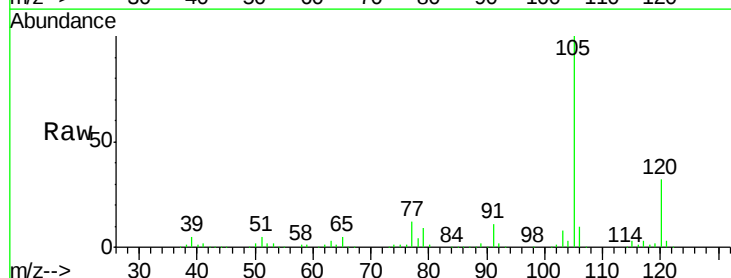
Tgt Ion: 77 Resp: 64994

Ion Ratio Lower Upper

77 100

105 860.2 78.9 118.9#

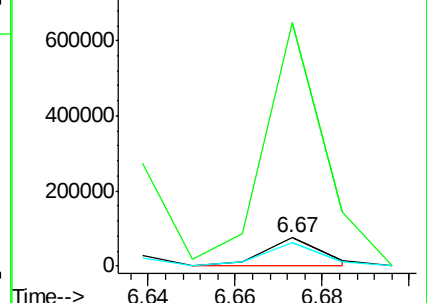
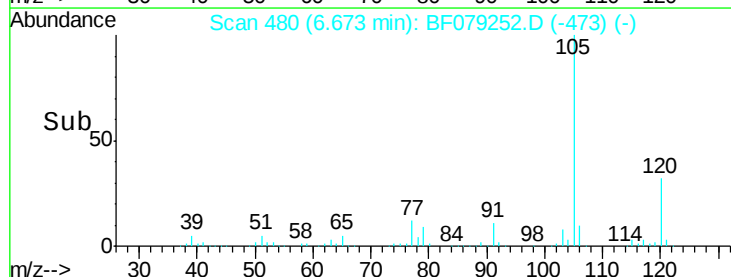
106 82.3 75.8 115.8

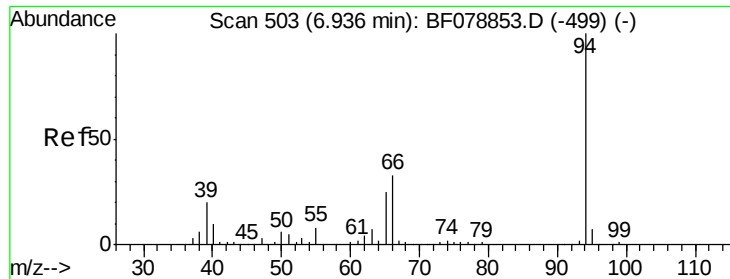


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 11.53 ng

RT: 6.80 min Scan# 491

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

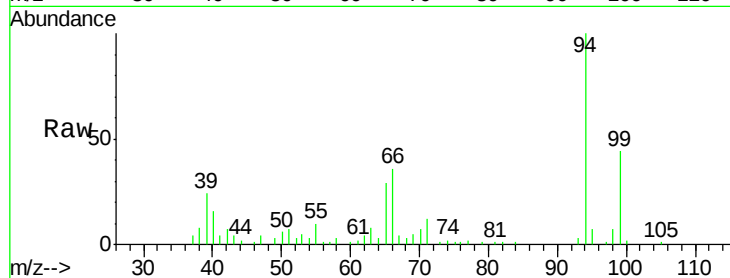
Tgt Ion: 94 Resp: 49331

Ion Ratio Lower Upper

94 100

65 29.1 5.1 45.1

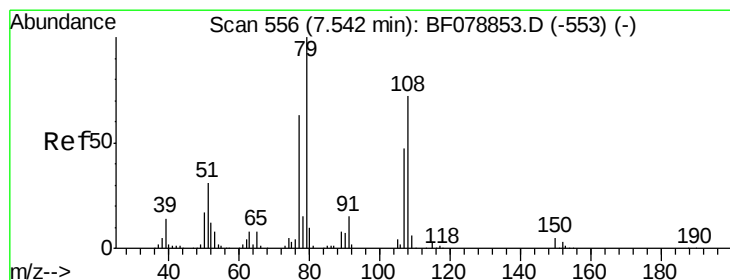
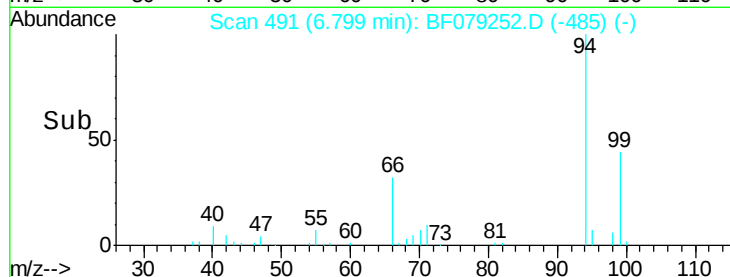
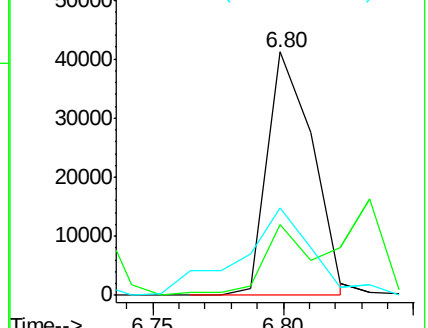
66 36.0 13.1 53.1



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#15

Benzyl Alcohol

Concen: 3.65 ng

RT: 7.42 min Scan# 545

Delta R.T. 0.01 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

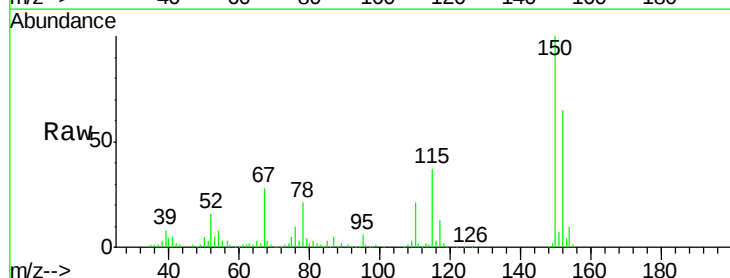
Tgt Ion: 79 Resp: 9980

Ion Ratio Lower Upper

79 100

108 16.0 57.4 86.2#

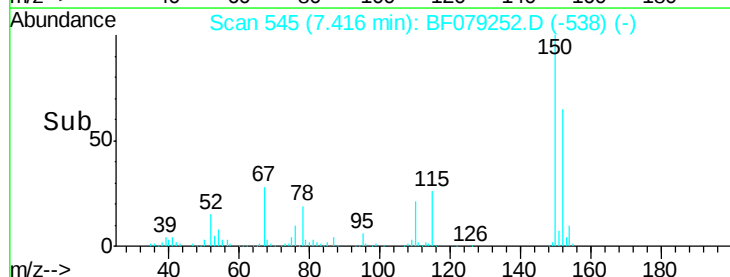
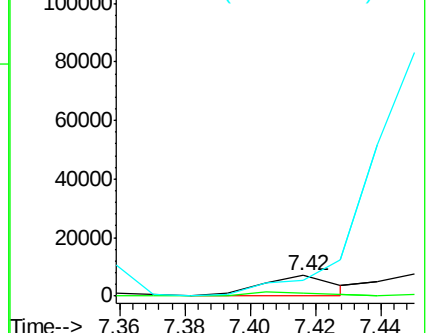
77 76.1 50.2 75.4#

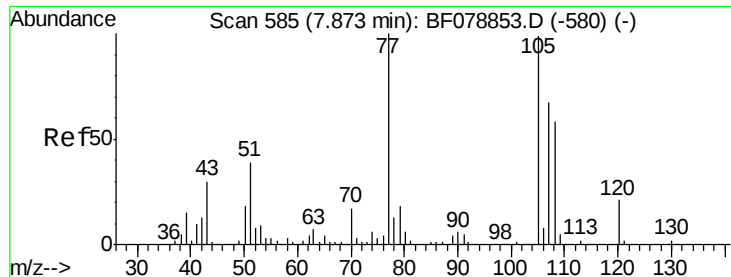


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

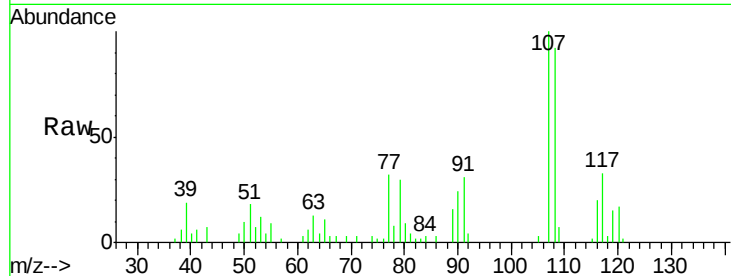




#20
3+4-Methylphenols
Concen: 6.25 ng
RT: 7.75 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Instrument :
BNA_F
ClientSampleId :
TW-4

Tgt Ion:	107	Resp:	21204
Ion	Ratio	Lower	Upper
107	100		
108	92.4	66.5	106.5
77	32.5	130.6	170.6#
79	29.8	6.4	46.4



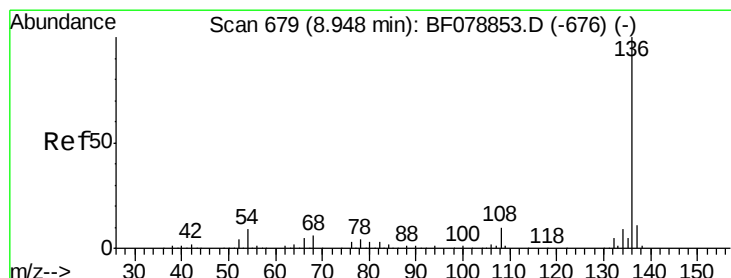
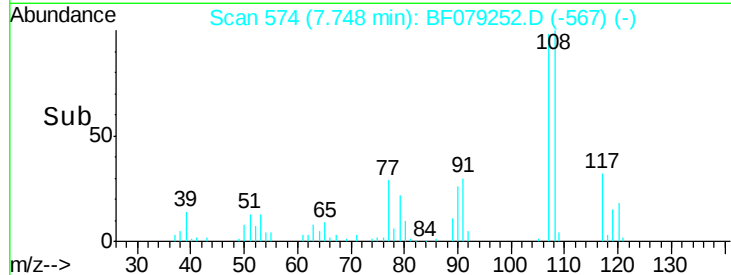
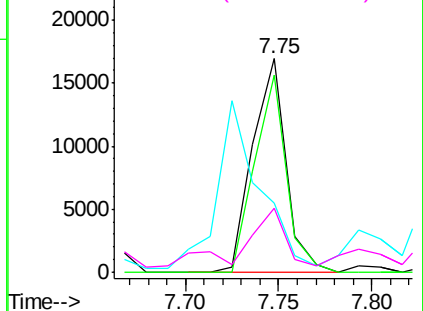
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

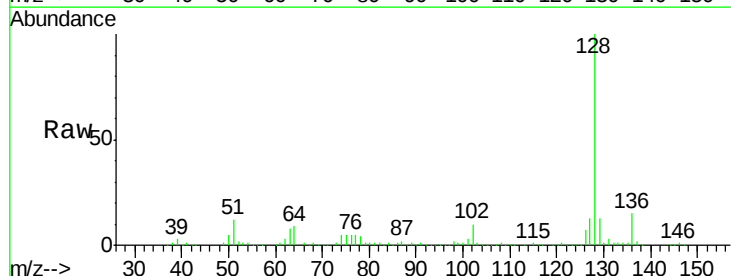
Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.81 min Scan# 667
Delta R.T. 0.01 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Tgt Ion:	136	Resp:	119900
Ion	Ratio	Lower	Upper
136	100		
137	11.8	8.8	13.2
54	8.9	6.9	10.3
68	6.6	4.9	7.3



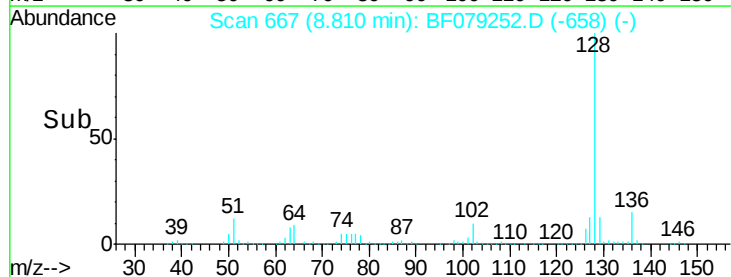
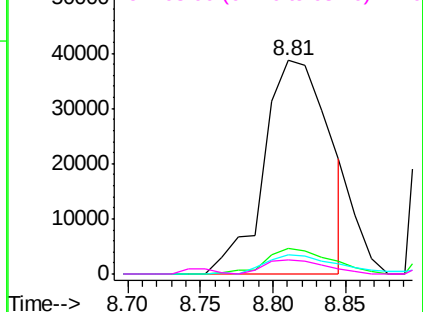
Abundance

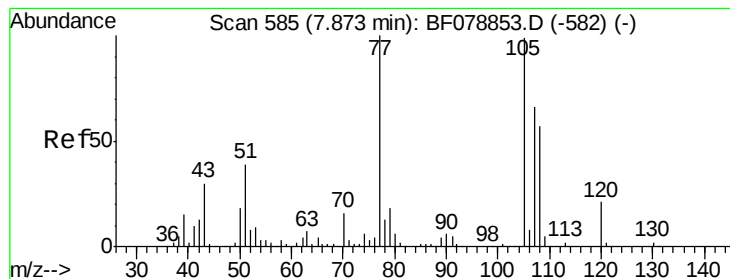
Ion 136.00 (135.70 to 136.70): E

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





#22

Acetophenone

Concen: 13.98 ng

RT: 7.71 min Scan# 571

Delta R.T. -0.01 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

Tgt Ion:105 Resp: 37880

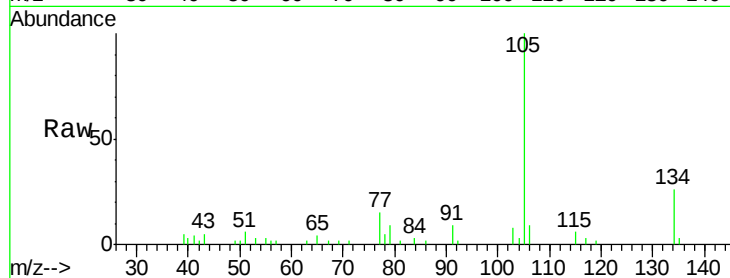
Ion Ratio Lower Upper

105 100

71 2.2 2.2 3.4#

51 6.3 31.1 46.7#

120 0.0 16.7 25.1#

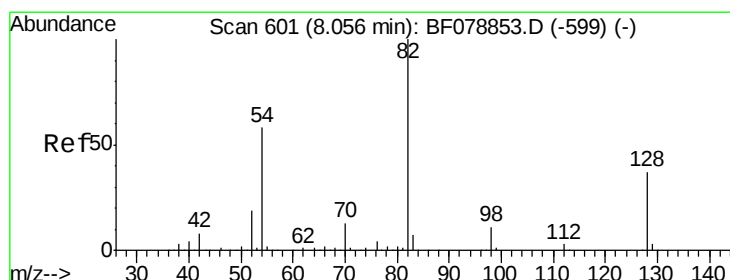
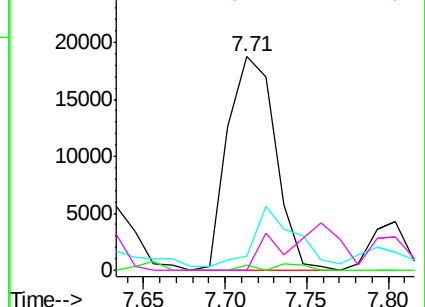
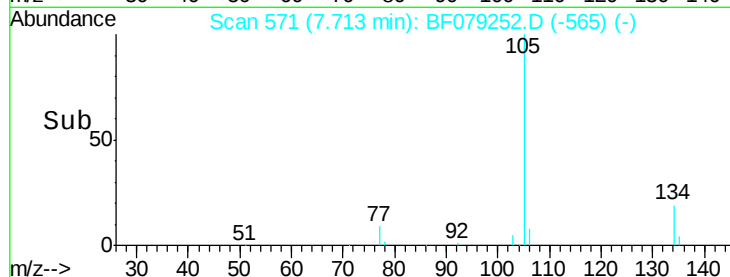


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 137.21 ng

RT: 7.92 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

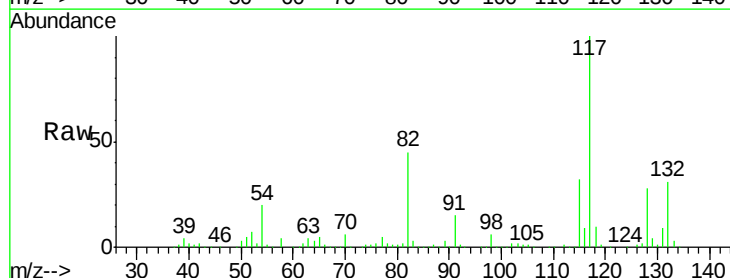
Tgt Ion: 82 Resp: 286248

Ion Ratio Lower Upper

82 100

128 62.5 29.7 44.5#

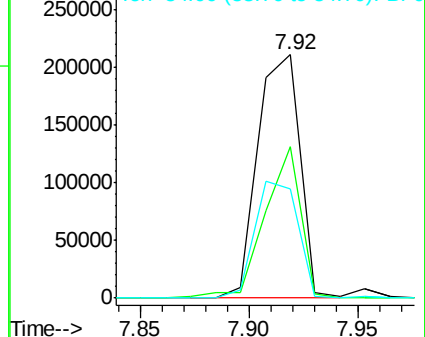
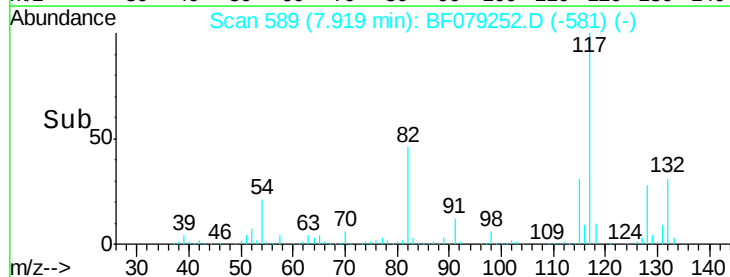
54 45.0 46.2 69.4#

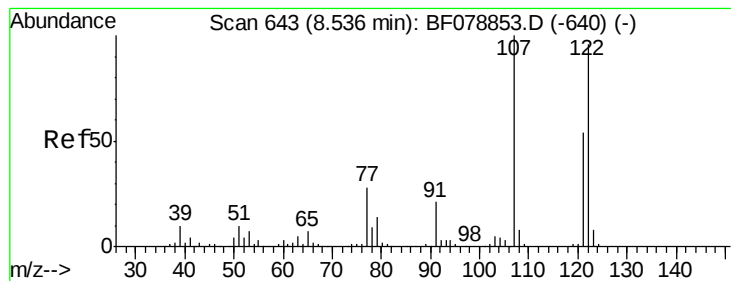


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#27

2,4-Dimethylphenol

Concen: 50.82 ng

RT: 8.41 min Scan# 632

Delta R.T. 0.01 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampled :

TW-4

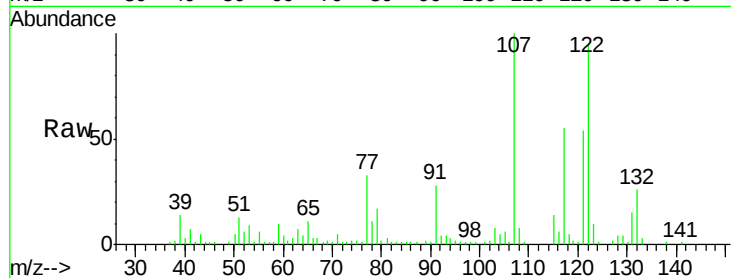
Tgt Ion:122 Resp: 87049

Ion Ratio Lower Upper

122 100

107 105.7 83.6 125.4

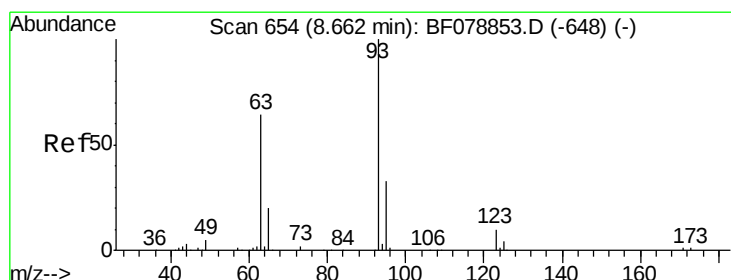
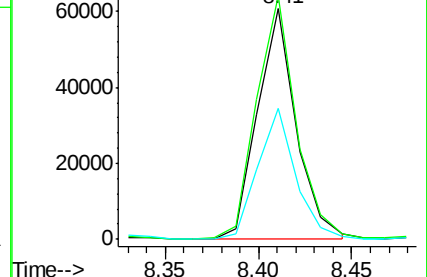
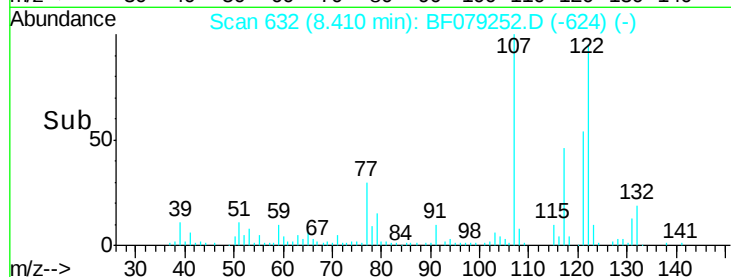
121 57.0 44.9 67.3



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 6.41 ng

RT: 8.49 min Scan# 639

Delta R.T. -0.02 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

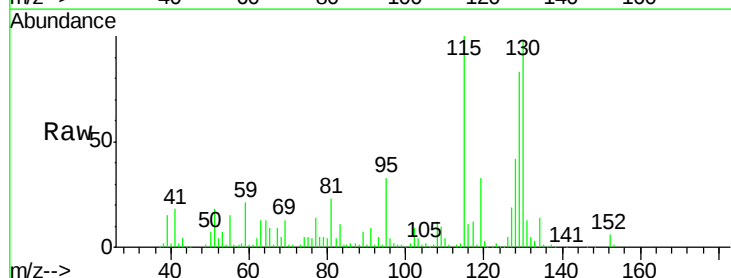
Tgt Ion: 93 Resp: 15288

Ion Ratio Lower Upper

93 100

95 662.1 26.2 39.2#

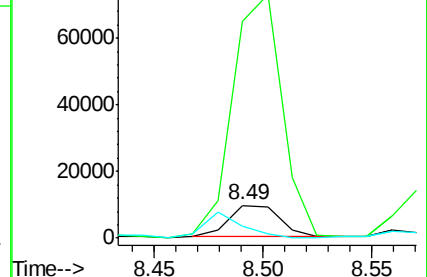
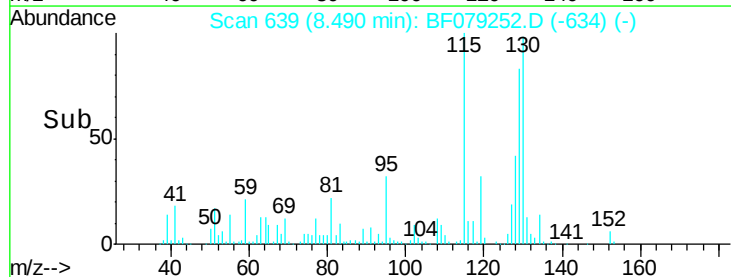
123 36.9 8.6 12.8#

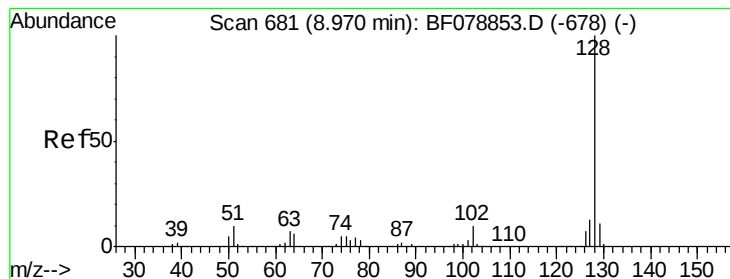


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 123.00 (122.70 to 123.70): E





#31

Naphthalene

Concen: 2019.77 ng

RT: 8.86 min Scan# 671

Delta R.T. 0.03 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

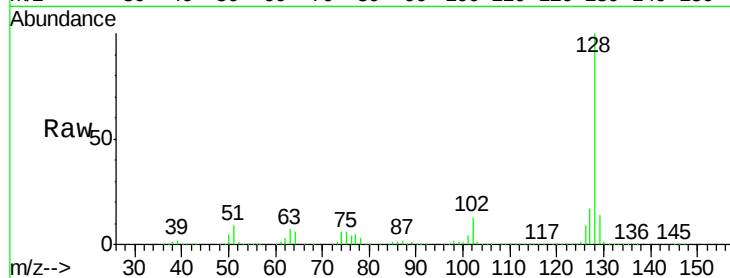
Tgt Ion:128 Resp:11539205

Ion Ratio Lower Upper

128 100

129 14.0 9.2 13.8#

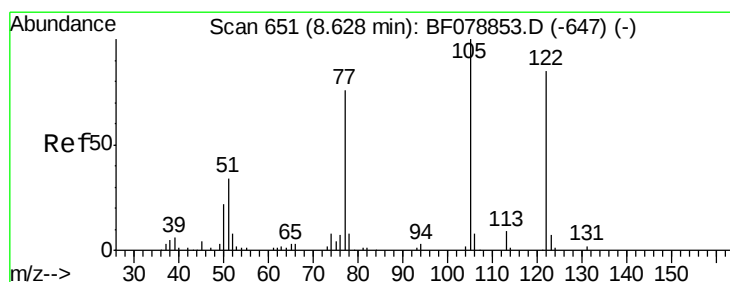
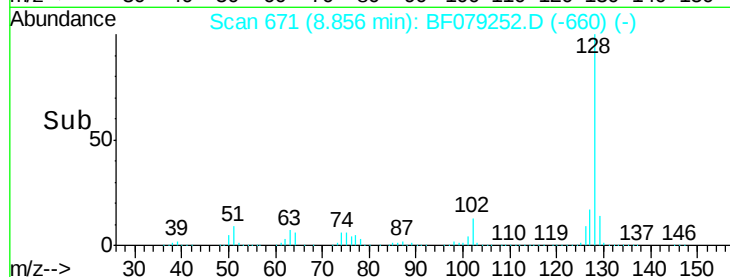
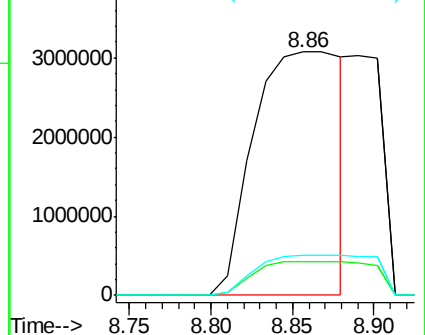
127 16.7 10.3 15.5#



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



#32

Benzoic acid

Concen: 7.45 ng

RT: 8.49 min Scan# 639

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

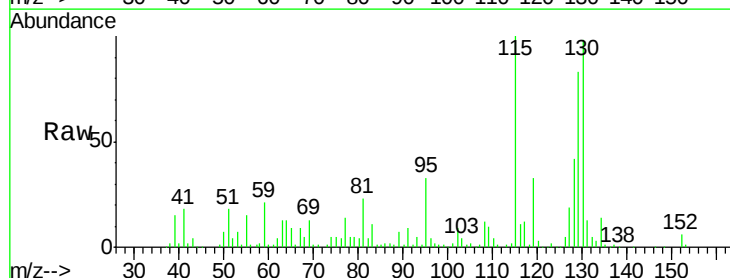
Tgt Ion:122 Resp: 1405

Ion Ratio Lower Upper

122 100

105 516.4 100.7 140.7#

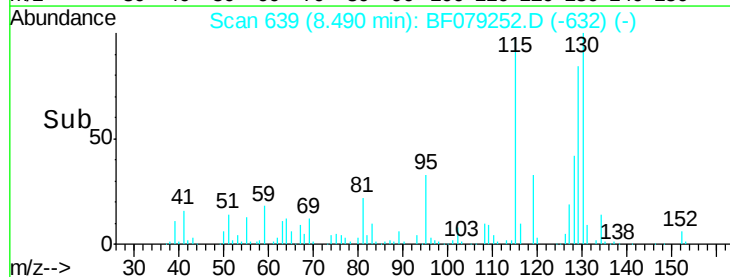
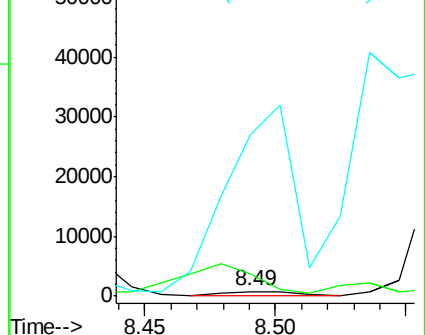
77 3833.0 72.0 112.0#

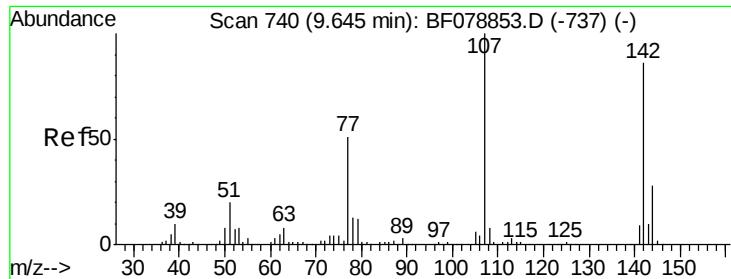


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

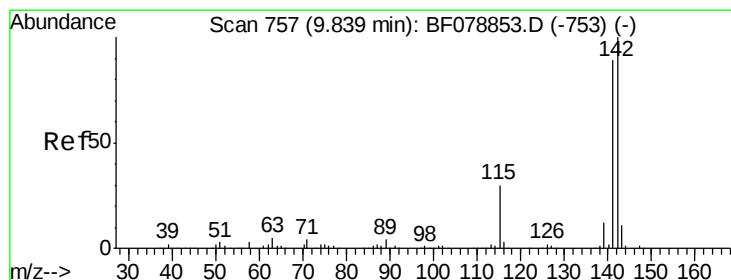
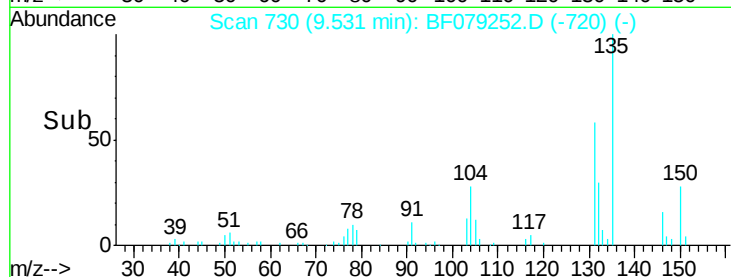
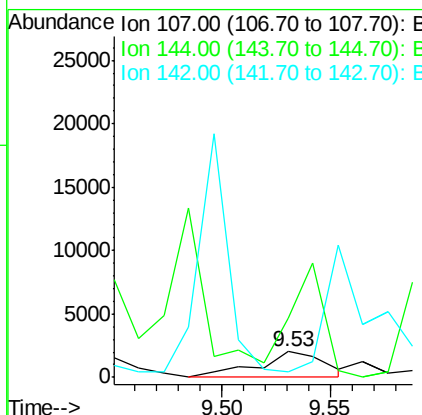
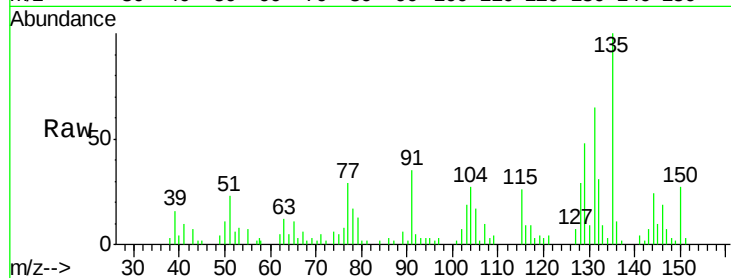




#36
 4-Chloro-3-methylphenol
 Concen: 2.72 ng
 RT: 9.53 min Scan# 730
 Delta R.T. 0.02 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

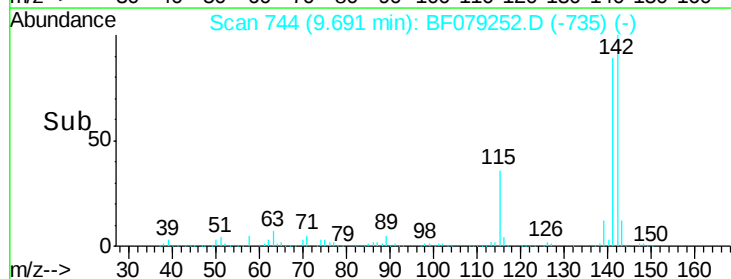
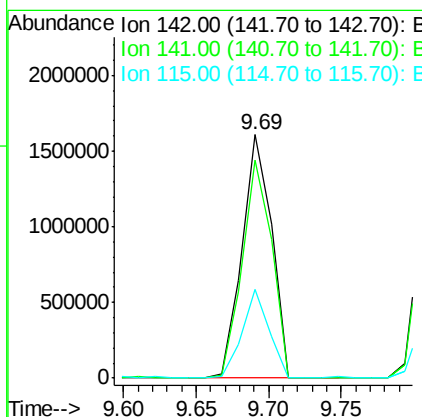
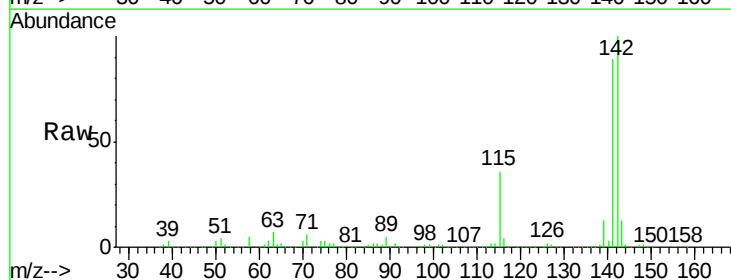
Instrument :
 BNA_F
 ClientSampleId :
 TW-4

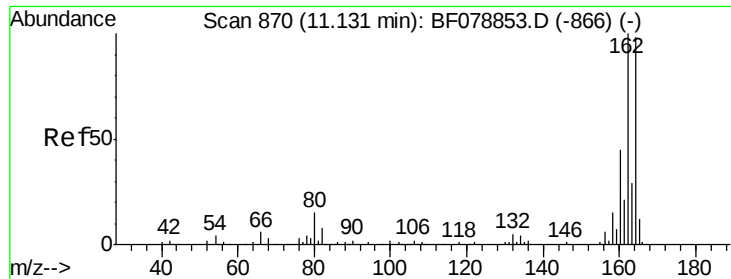
Tgt Ion:107 Resp: 4346
 Ion Ratio Lower Upper
 107 100
 144 231.4 22.5 33.7#
 142 23.6 68.6 103.0#



#37
 2-Methylnaphthalene
 Concen: 572.20 ng
 RT: 9.69 min Scan# 744
 Delta R.T. 0.01 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

Tgt Ion:142 Resp: 2265352
 Ion Ratio Lower Upper
 142 100
 141 89.4 71.6 107.4
 115 36.4 24.2 36.4#

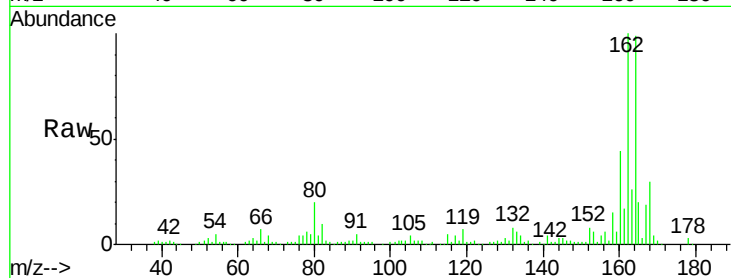




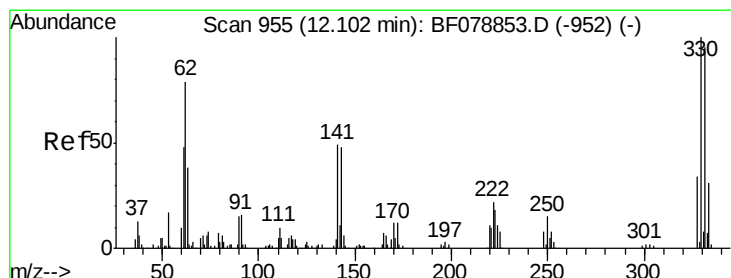
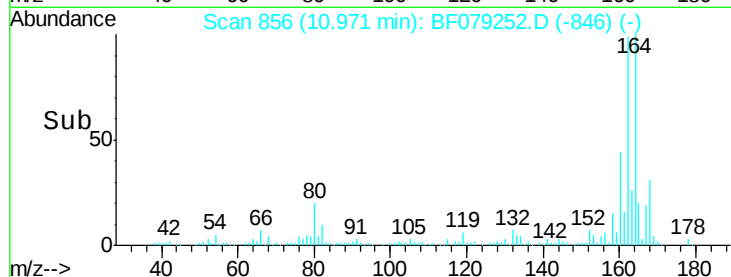
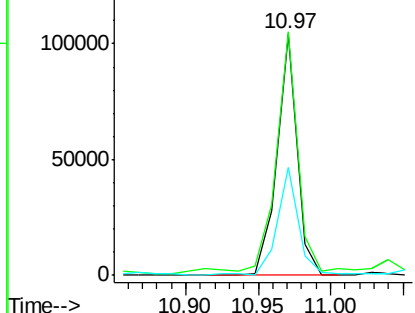
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.97 min Scan# 856
 Delta R.T. 0.00 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

Instrument :
 BNA_F
 ClientSampleId :
 TW-4

Tgt Ion:164 Resp: 100663
 Ion Ratio Lower Upper
 164 100
 162 100.9 81.4 122.0
 160 44.8 36.6 54.8

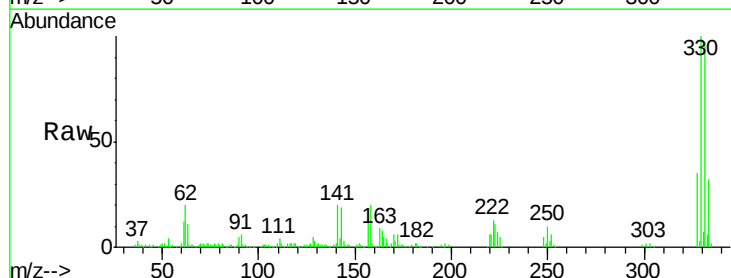


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

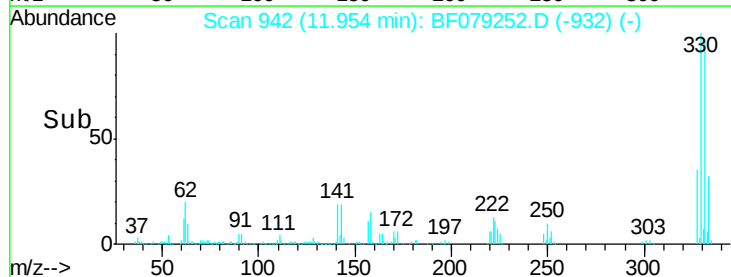
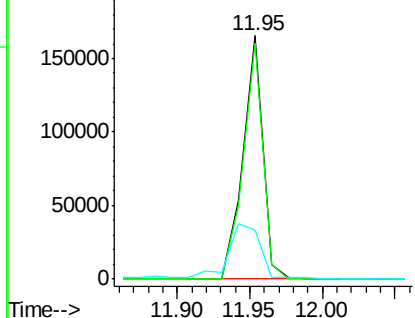


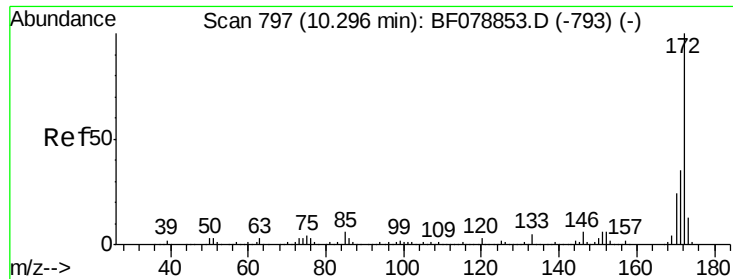
#41
 2,4,6-Tribromophenol
 Concen: 145.59 ng
 RT: 11.95 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

Tgt Ion:330 Resp: 158544
 Ion Ratio Lower Upper
 330 100
 332 96.3 76.9 115.3
 141 36.3 27.8 41.8



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

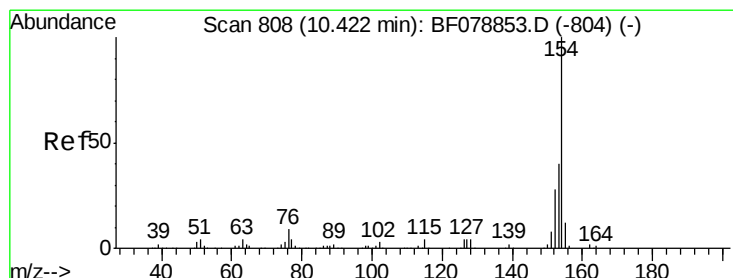
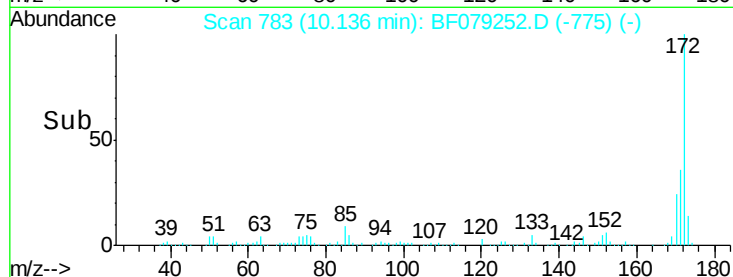
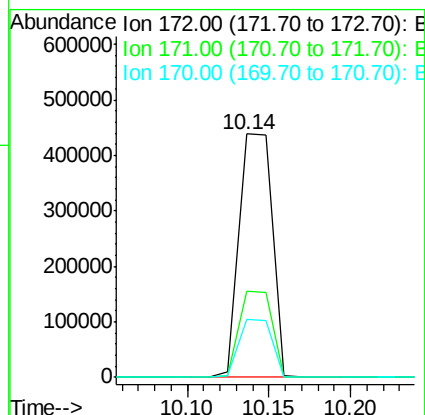
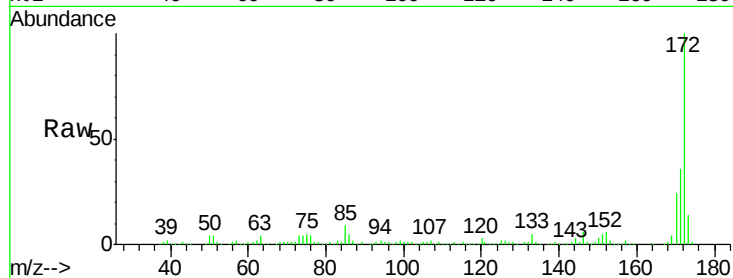




#44
 2-Fluorobiphenyl
 Concen: 84.68 ng
 RT: 10.14 min Scan# 783
 Delta R.T. -0.01 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

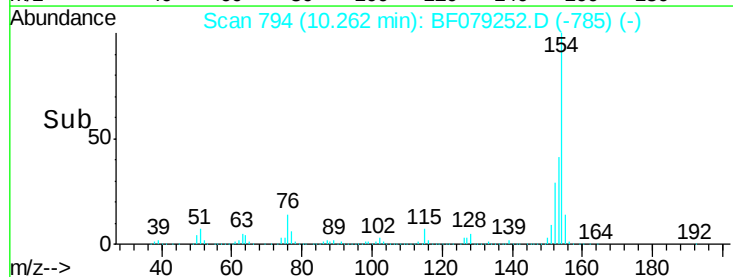
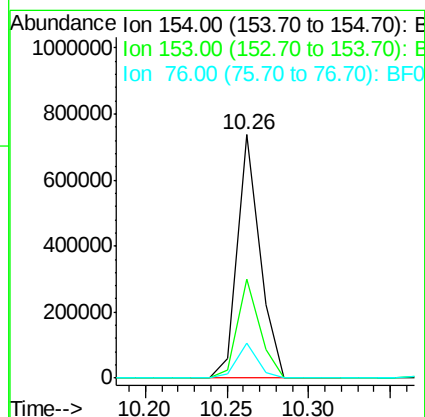
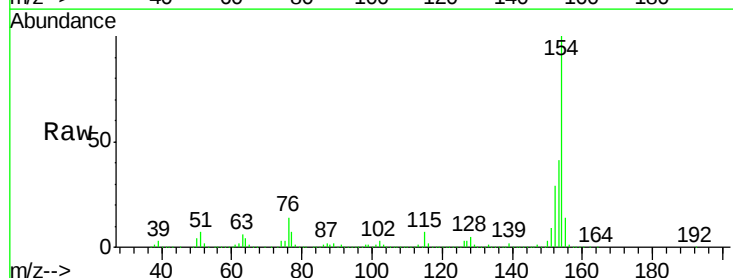
Instrument :
 BNA_F
 ClientSampleId :
 TW-4

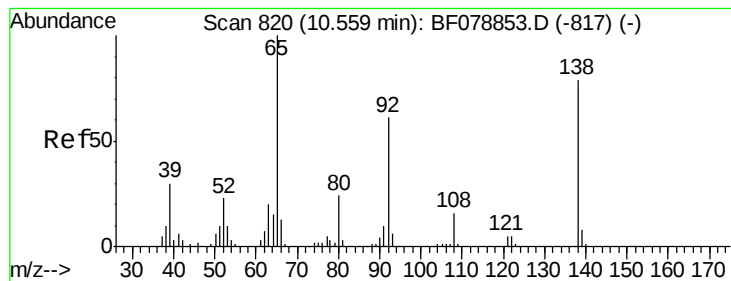
Tgt Ion:172 Resp: 611809
 Ion Ratio Lower Upper
 172 100
 171 35.6 28.3 42.5
 170 23.6 19.4 29.2



#45
 1,1'-Biphenyl
 Concen: 87.59 ng
 RT: 10.26 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

Tgt Ion:154 Resp: 700969
 Ion Ratio Lower Upper
 154 100
 153 40.7 19.7 59.7
 76 14.1 0.0 29.1





#47

2-Nitroaniline

Concen: 3.23 ng

RT: 10.44 min Scan# 810

Delta R.T. 0.03 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

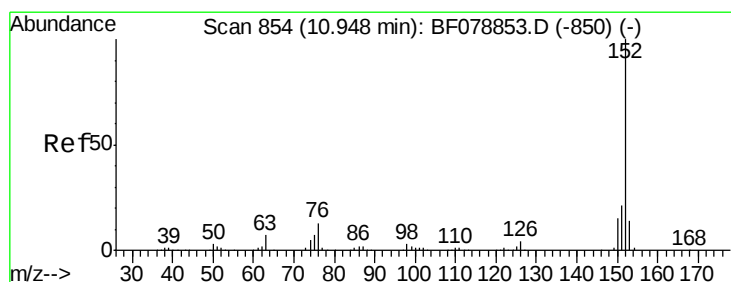
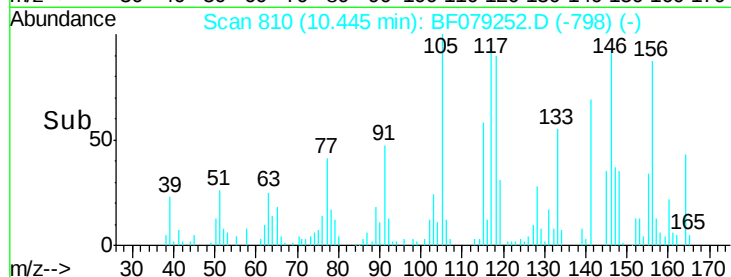
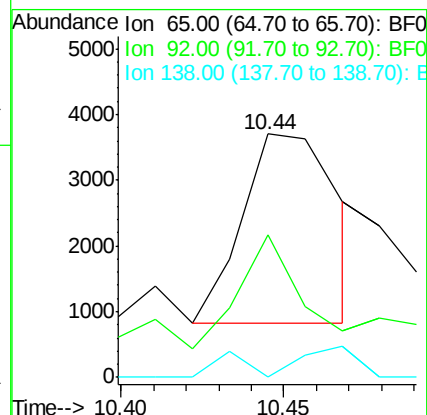
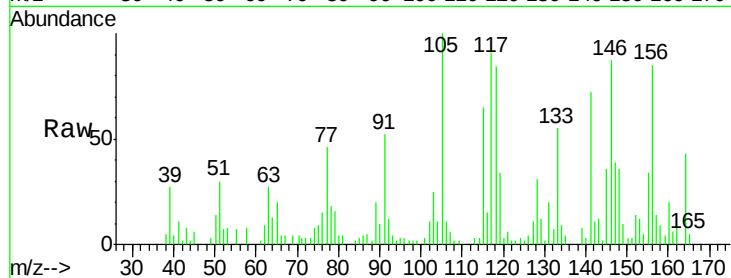
Tgt Ion: 65 Resp: 5849

Ion Ratio Lower Upper

65 100

92 58.5 49.1 73.7

138 0.0 63.2 94.8#



#48

Acenaphthylene

Concen: 64.93 ng

RT: 10.80 min Scan# 841

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

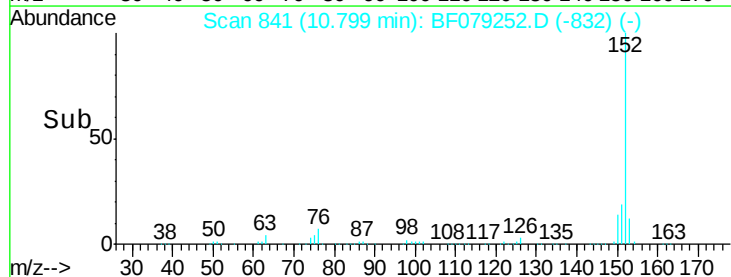
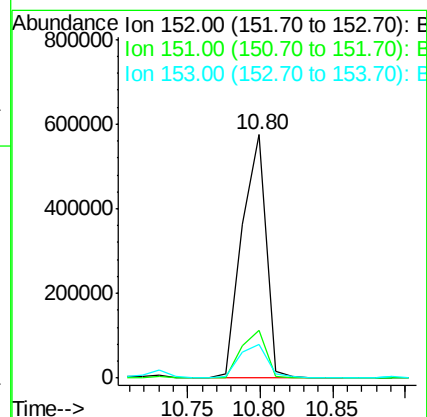
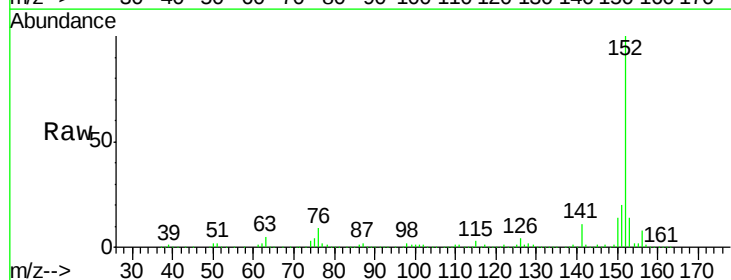
Tgt Ion: 152 Resp: 665429

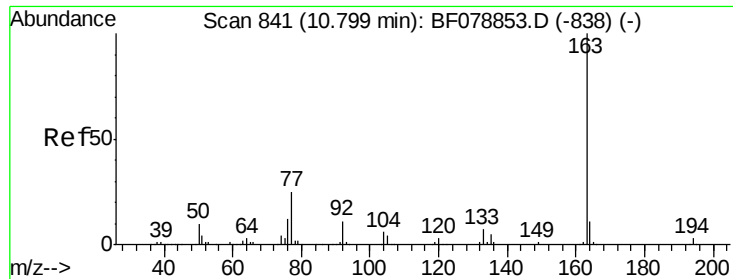
Ion Ratio Lower Upper

152 100

151 19.7 16.6 24.8

153 14.0 11.0 16.6

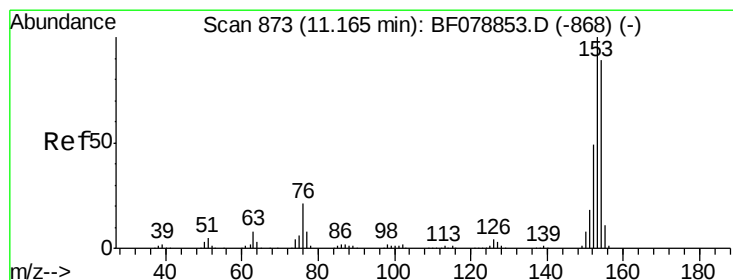
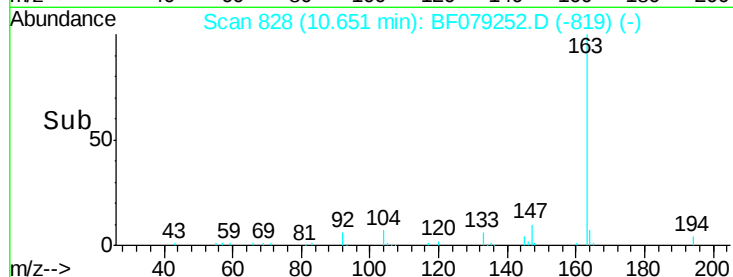
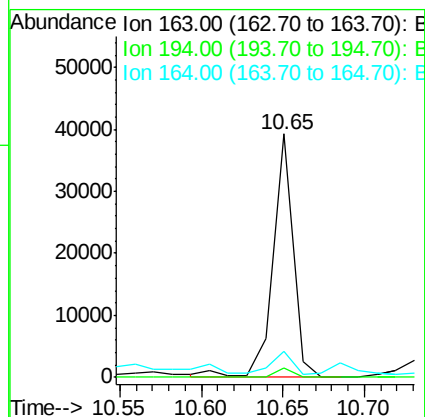
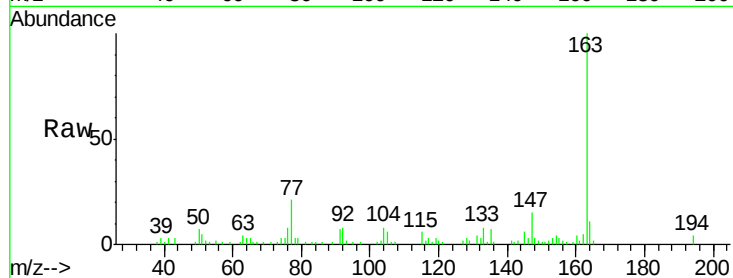




#49
Dimethylphthalate
Concen: 4.61 ng
RT: 10.65 min Scan# 828
Delta R.T. 0.00 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

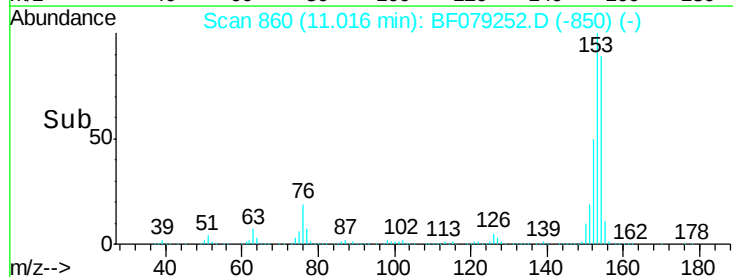
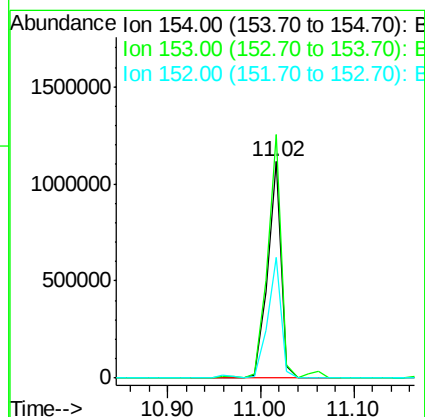
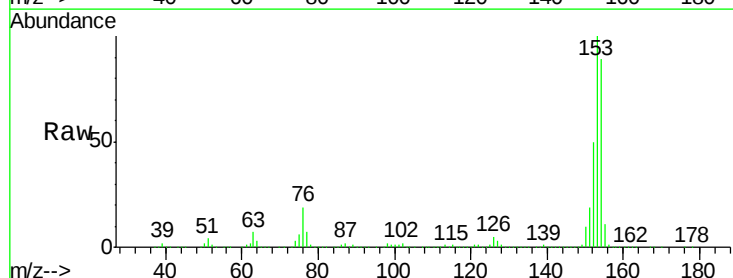
Instrument :
BNA_F
ClientSampleId :
TW-4

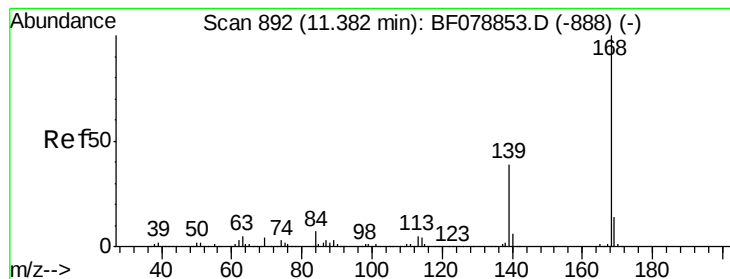
Tgt Ion:163 Resp: 34091
Ion Ratio Lower Upper
163 100
194 3.9 2.4 3.6#
164 10.9 8.6 12.8



#51
Acenaphthene
Concen: 184.94 ng
RT: 11.02 min Scan# 860
Delta R.T. 0.00 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Tgt Ion:154 Resp: 1130334
Ion Ratio Lower Upper
154 100
153 112.4 90.2 135.2
152 56.0 43.8 65.8





#54

Dibenzenofuran

Concen: 8.38 ng

RT: 11.22 min Scan# 878

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

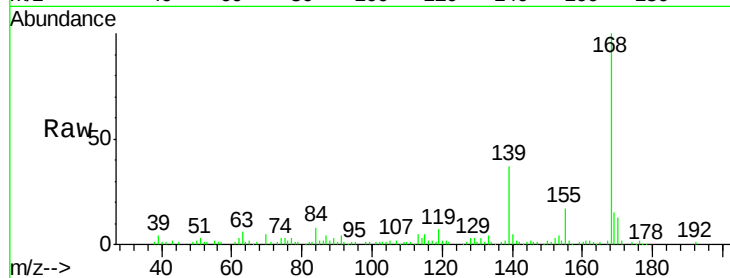
Tgt Ion:168 Resp: 73946

Ion Ratio Lower Upper

168 100

139 37.1 31.5 47.3

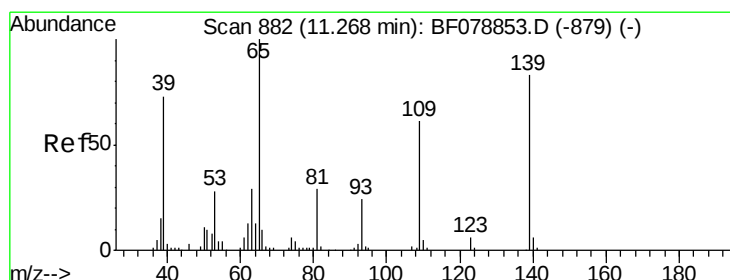
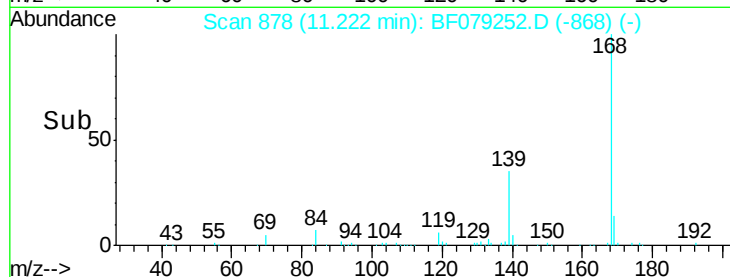
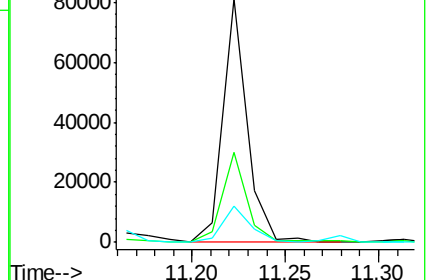
169 14.8 11.0 16.4



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



#55

4-Nitrophenol

Concen: 3.50 ng

RT: 11.15 min Scan# 872

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

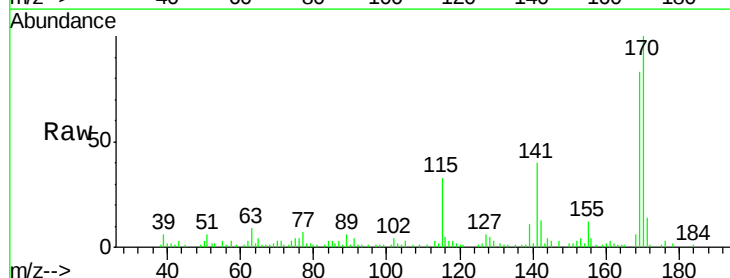
Tgt Ion:139 Resp: 5043

Ion Ratio Lower Upper

139 100

109 10.5 54.4 94.4#

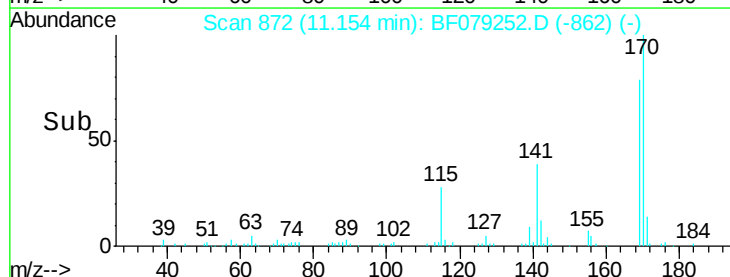
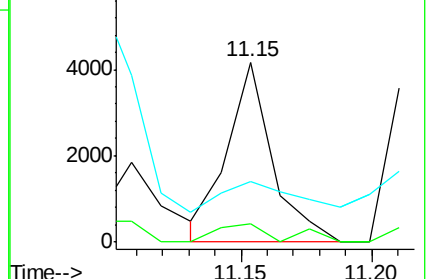
65 33.5 101.0 141.0#

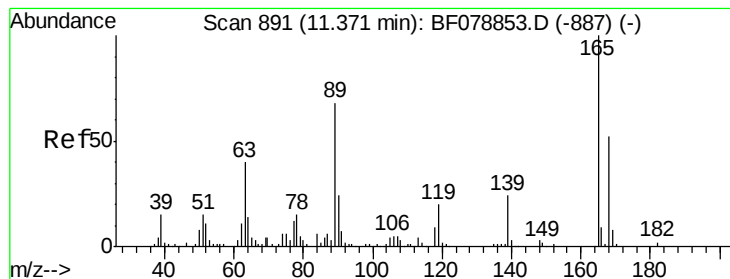


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#56

2,4-Dinitrotoluene

Concen: 2.47 ng

RT: 11.21 min Scan# 877

Delta R.T. -0.01 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

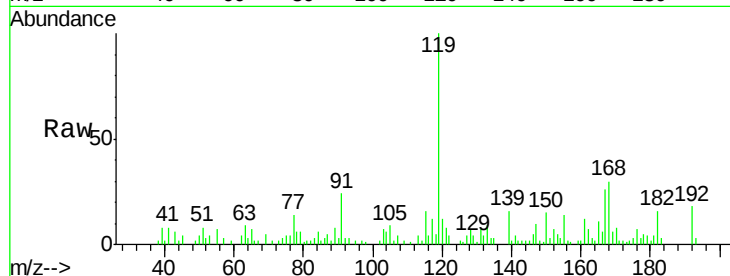
Instrument :

BNA_F

ClientSampleId :

TW-4

Tgt Ion:	165	Resp:	4753
Ion Ratio	Lower	Upper	
165	100		
63	74.7	32.3	48.5#
89	65.9	54.6	81.8
182	143.6	1.8	2.6#

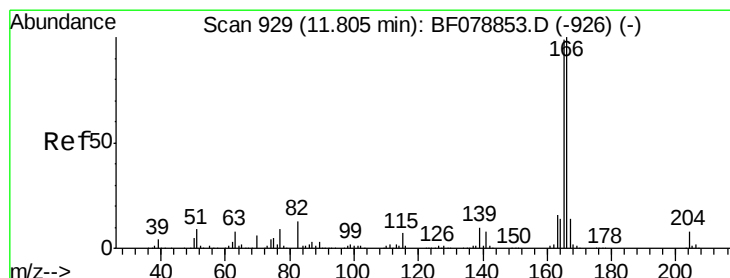
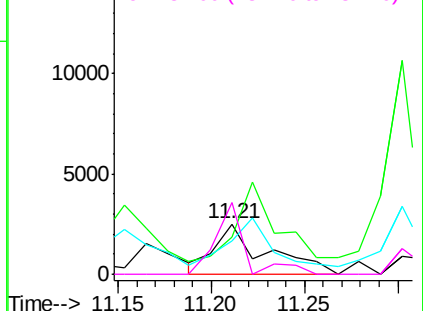
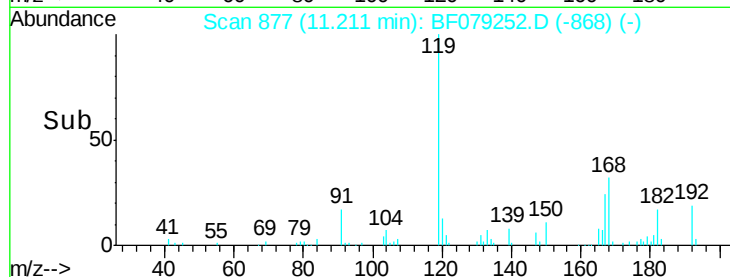


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 97.11 ng

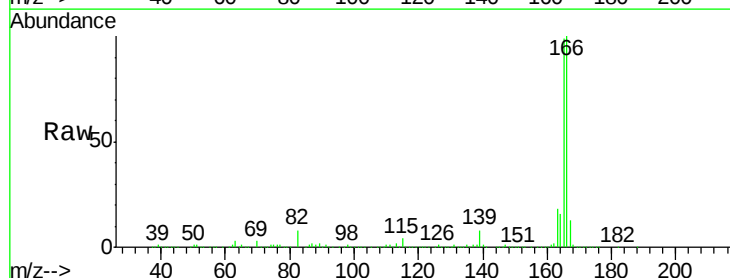
RT: 11.66 min Scan# 916

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

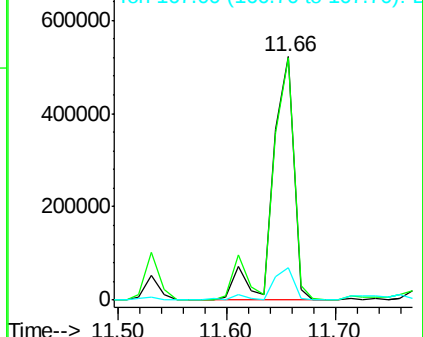
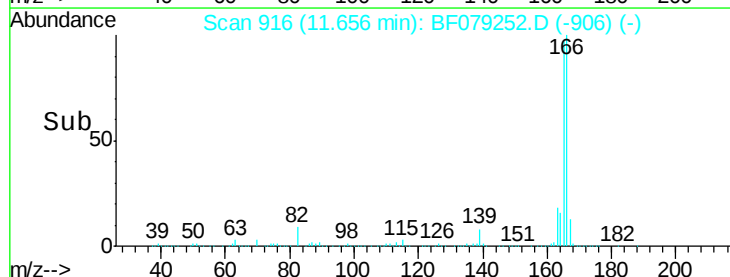
Tgt Ion:	166	Resp:	703705
Ion Ratio	Lower	Upper	
166	100		
165	99.4	79.5	119.3
167	13.3	11.0	16.6

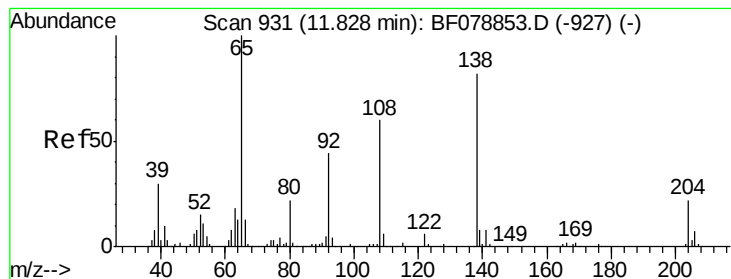


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#61

4-Nitroaniline

Concen: 5.15 ng

RT: 11.66 min Scan# 916

Delta R.T. -0.02 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

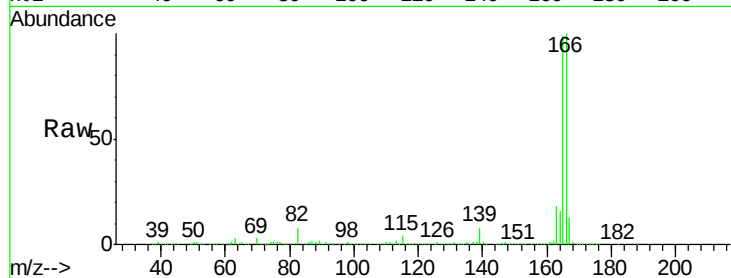
Tgt Ion:138 Resp: 9377

Ion Ratio Lower Upper

138 100

92 11.2 33.7 73.7#

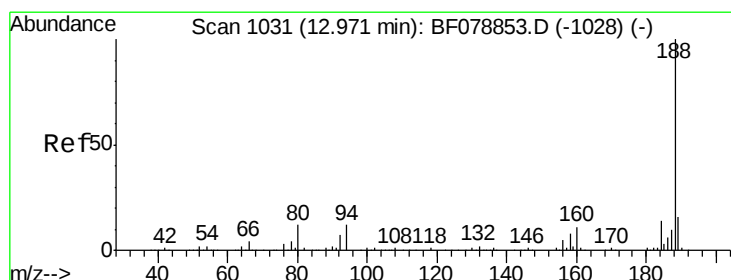
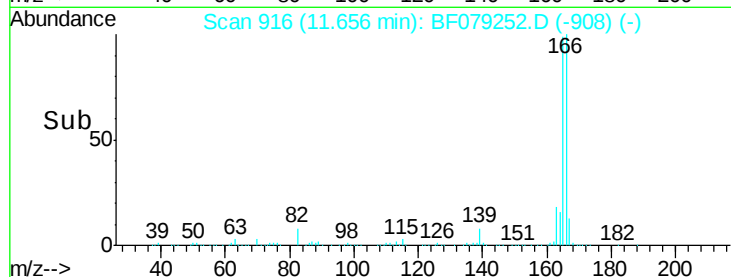
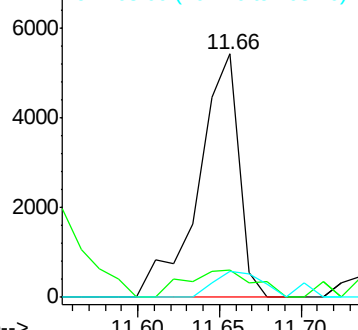
108 10.9 53.4 93.4#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF0

Ion 108.00 (107.70 to 108.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.81 min Scan# 1017

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

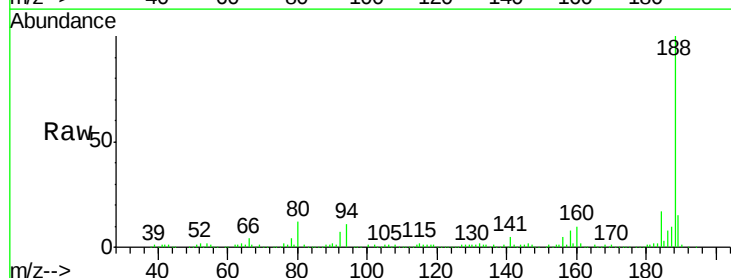
Tgt Ion:188 Resp: 192837

Ion Ratio Lower Upper

188 100

94 11.3 9.4 14.0

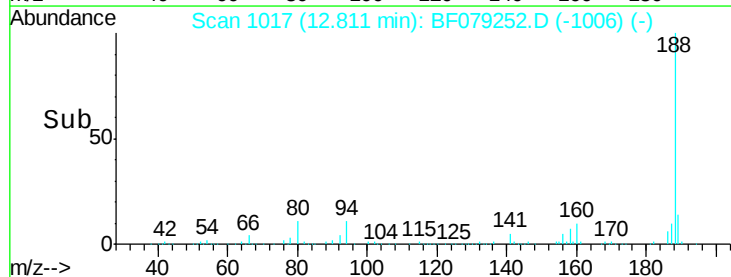
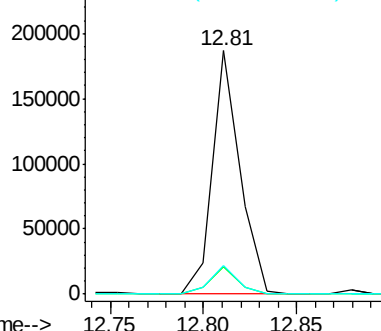
80 11.6 9.8 14.6

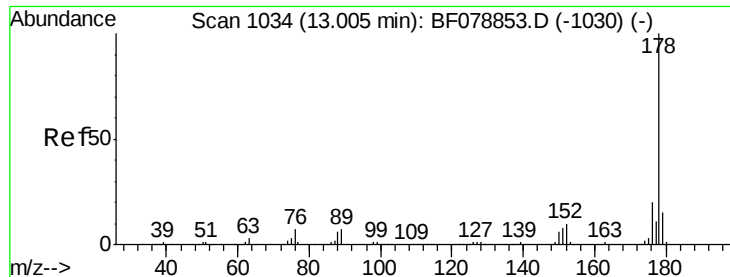


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

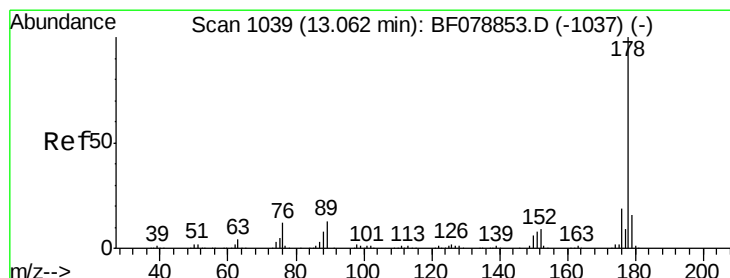
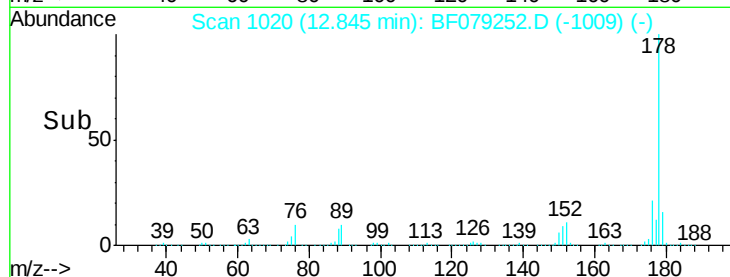
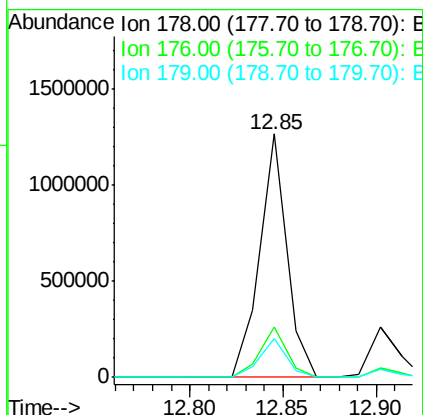
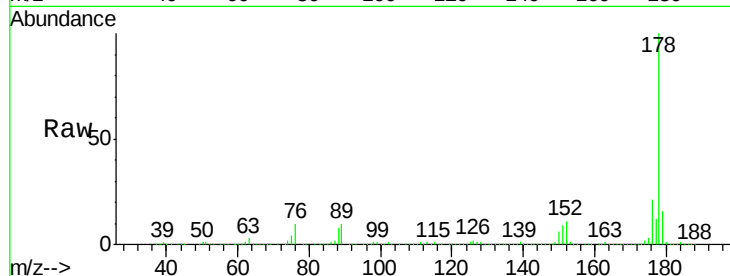




#70
Phenanthrene
Concen: 118.54 ng
RT: 12.85 min Scan# 1020
Delta R.T. 0.00 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

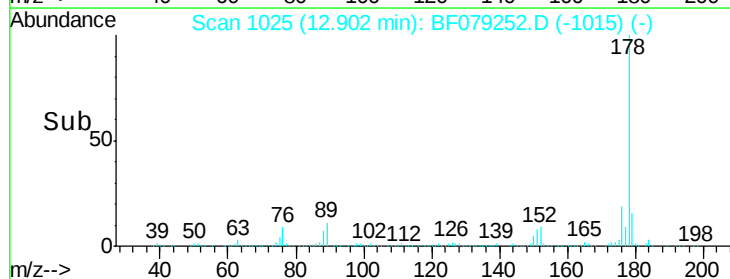
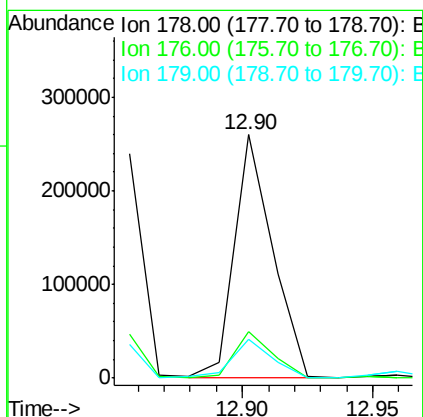
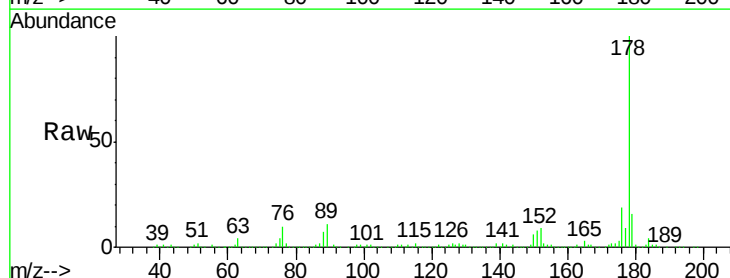
Instrument :
BNA_F
ClientSampleId :
TW-4

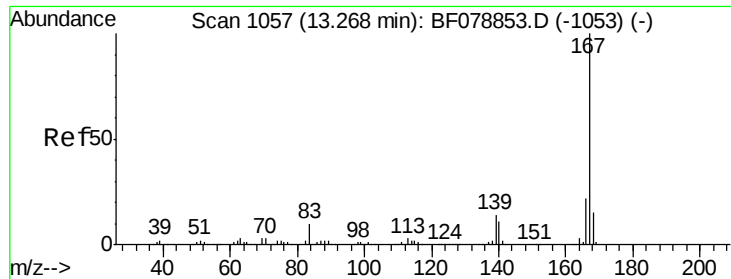
Tgt Ion:178 Resp: 1278807
Ion Ratio Lower Upper
178 100
176 20.8 15.9 23.9
179 16.2 12.2 18.4



#71
Anthracene
Concen: 25.09 ng
RT: 12.90 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Tgt Ion:178 Resp: 265568
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.8 12.6 19.0

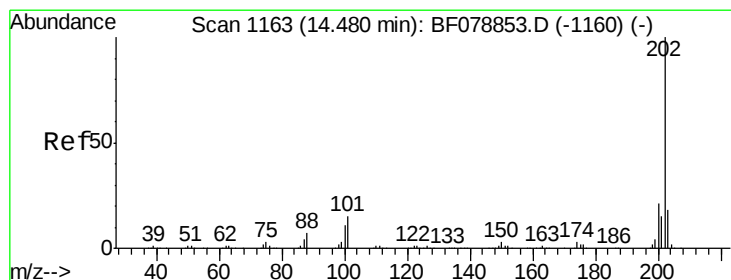
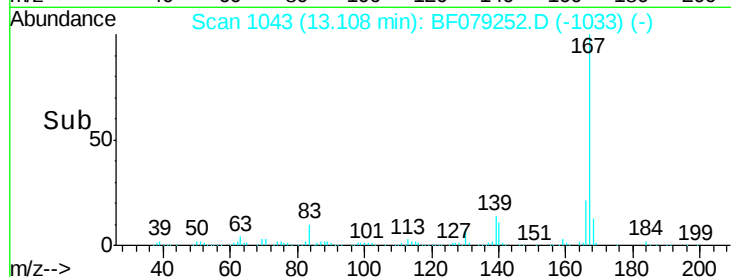
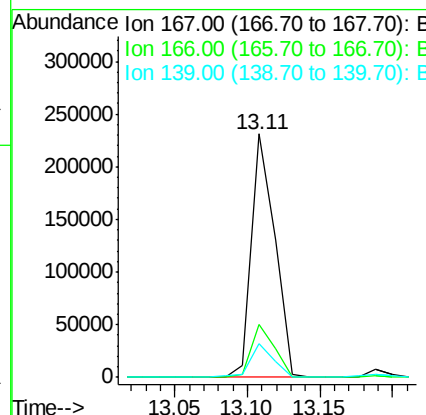
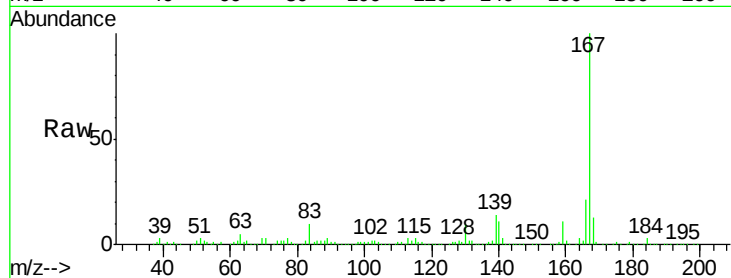




#72
 Carbazole
 Concen: 25.65 ng
 RT: 13.11 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

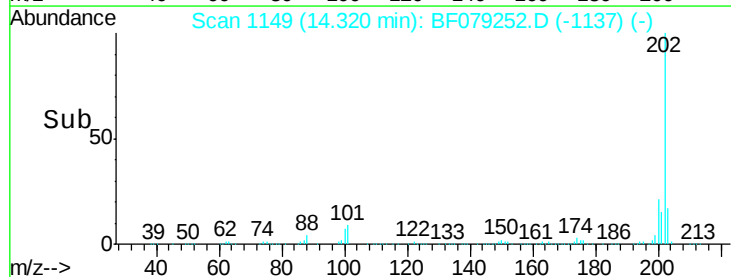
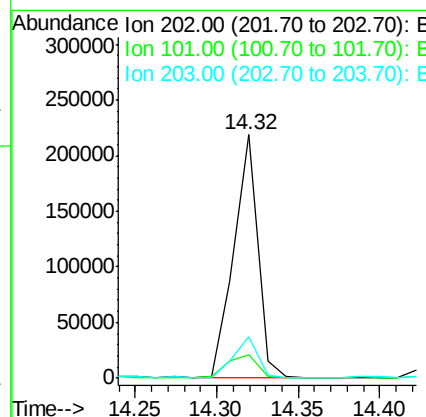
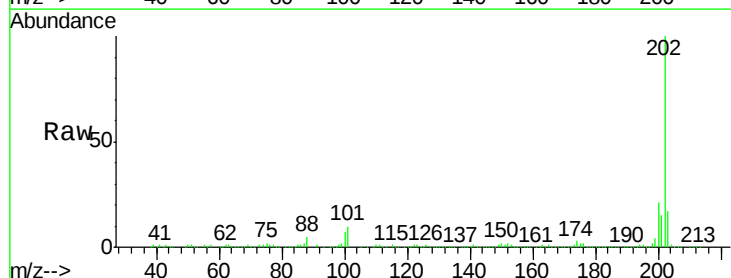
Instrument :
 BNA_F
 ClientSampleId :
 TW-4

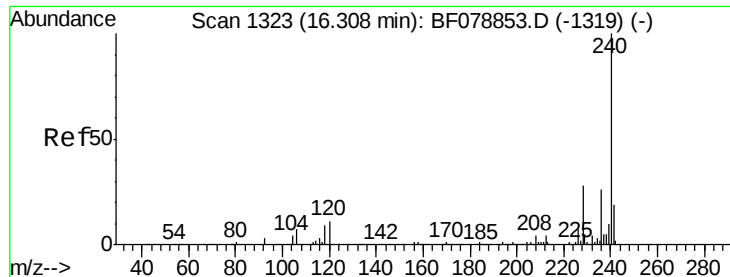
Tgt Ion:167 Resp: 258719
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.5 26.3
 139 14.1 11.0 16.4



#74
 Fluoranthene
 Concen: 19.77 ng
 RT: 14.32 min Scan# 1149
 Delta R.T. -0.01 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

Tgt Ion:202 Resp: 222295
 Ion Ratio Lower Upper
 202 100
 101 9.6 0.0 34.7
 203 17.1 0.0 37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.09 min Scan# 1304

Delta R.T. -0.15 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

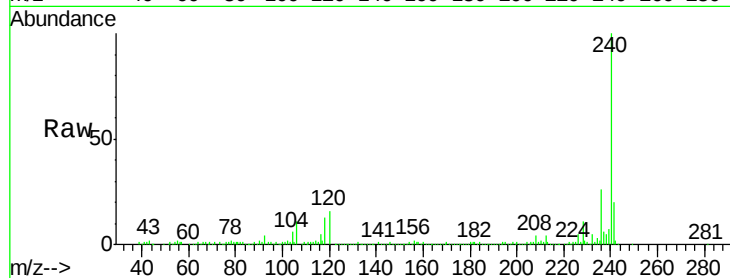
Tgt Ion:240 Resp: 231371

Ion Ratio Lower Upper

240 100

120 16.3 8.6 12.8#

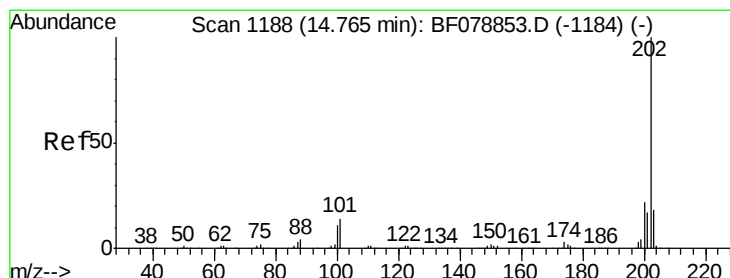
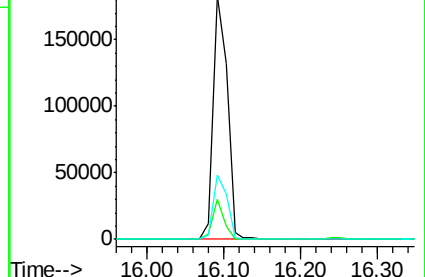
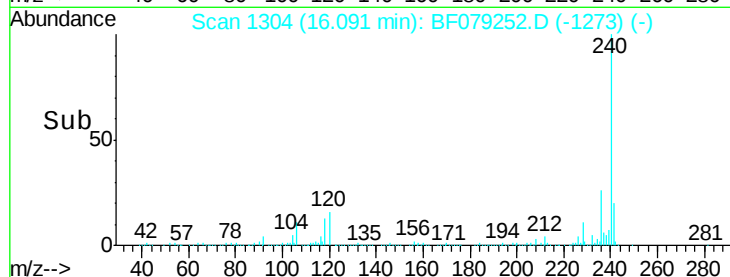
236 26.2 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 4.14 ng

RT: 14.43 min Scan# 1159

Delta R.T. -0.18 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

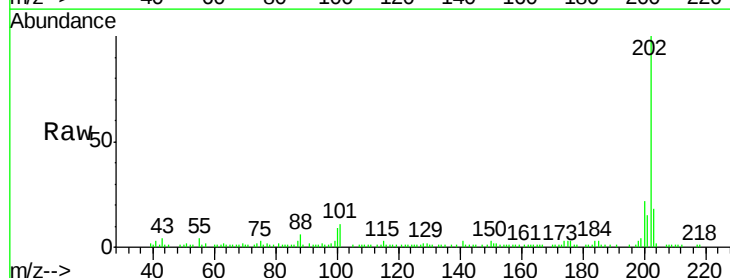
Tgt Ion:202 Resp: 55174

Ion Ratio Lower Upper

202 100

200 22.5 17.5 26.3

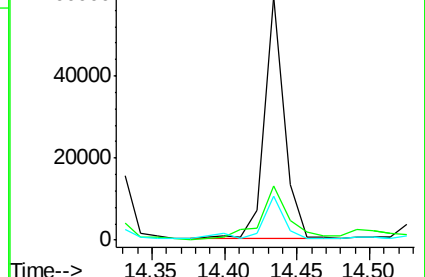
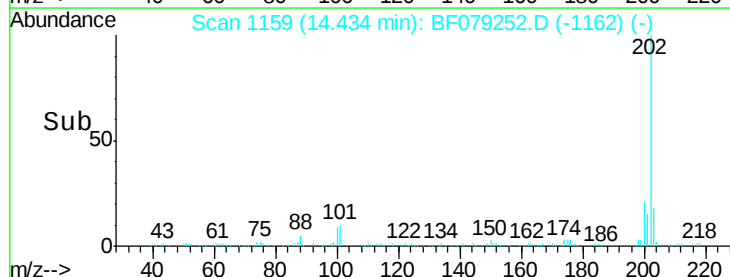
203 18.3 14.7 22.1

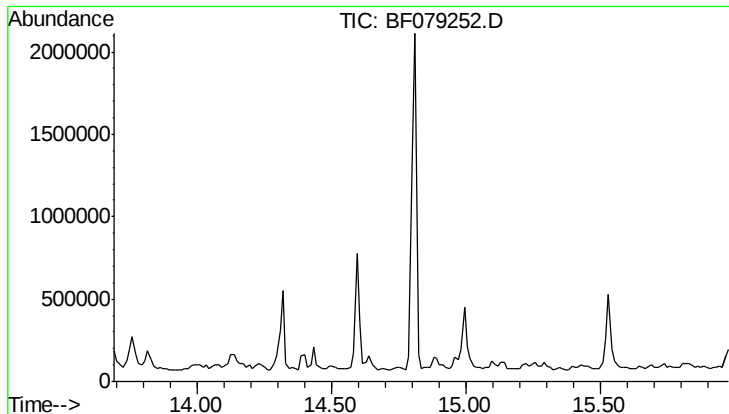


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 0.00 ng

Expected RT: 14.83 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

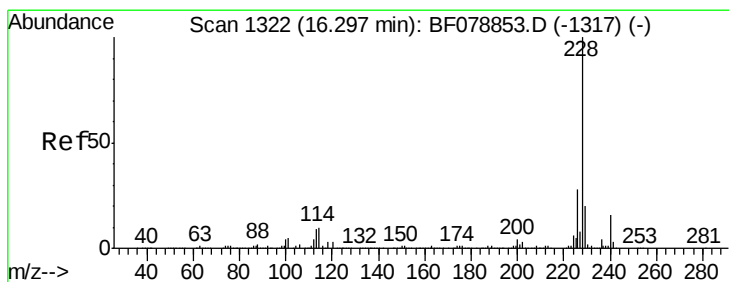
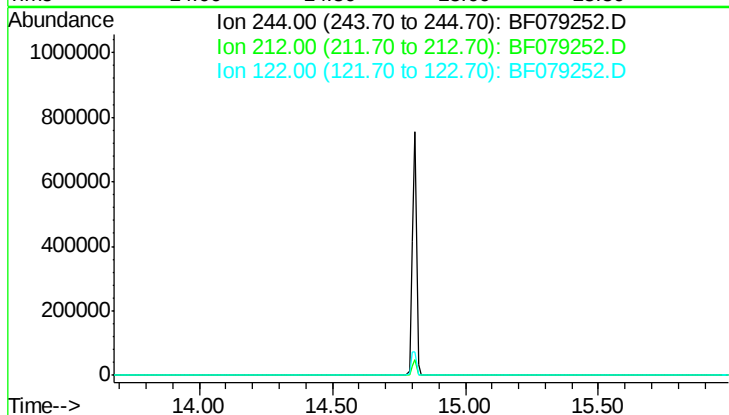
Tgt Ion: 244

Sig Exp Ratio

244 100

212 7.0

122 13.1



#80

Benzo(a)anthracene

Concen: 2.55 ng

RT: 16.13 min Scan# 1307

Delta R.T. -0.10 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

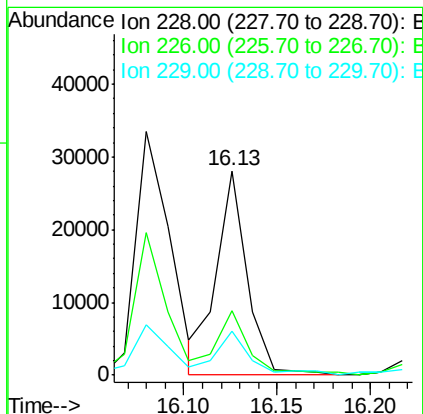
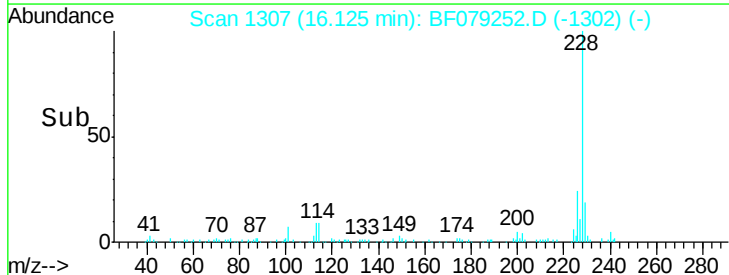
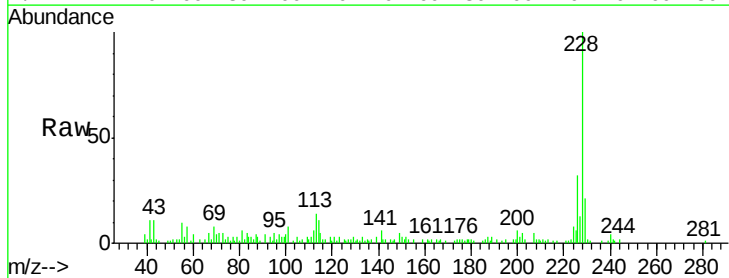
Tgt Ion: 228 Resp: 32301

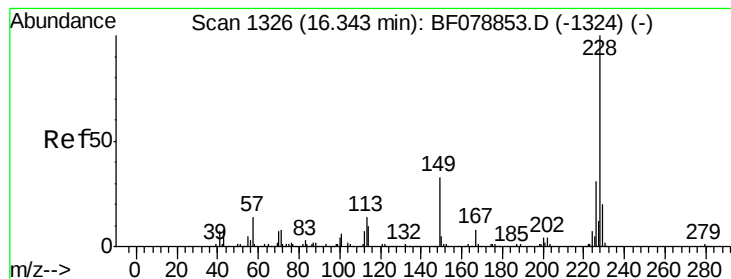
Ion Ratio Lower Upper

228 100

226 31.6 22.3 33.5

229 21.3 16.1 24.1





#82

Chrysene

Concen: 2.65 ng

RT: 16.13 min Scan# 1307

Delta R.T. -0.16 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampled :

TW-4

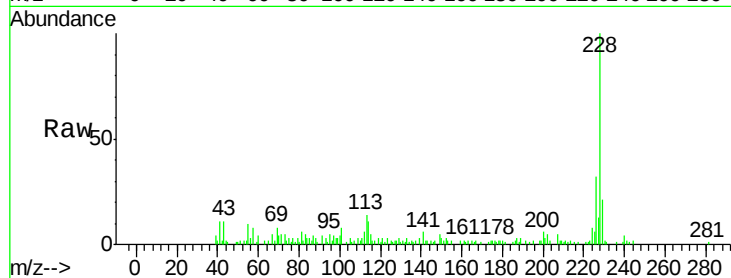
Tgt Ion:228 Resp: 32301

Ion Ratio Lower Upper

228 100

226 31.6 24.8 37.2

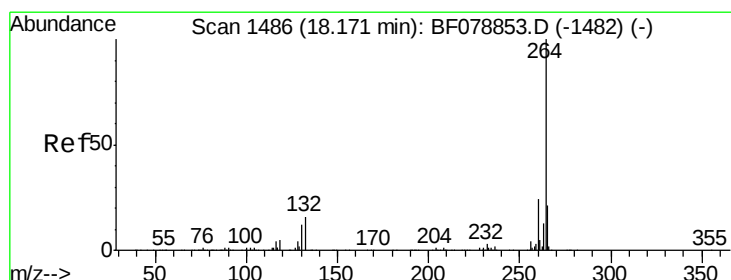
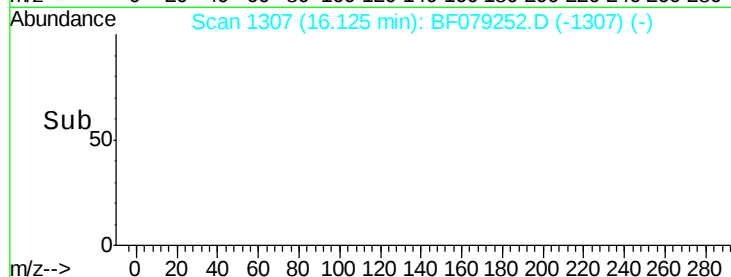
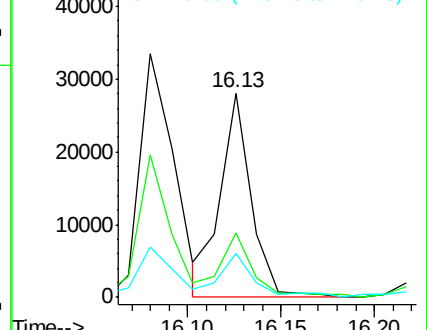
229 21.3 16.1 24.1



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 17.78 min Scan# 1452

Delta R.T. -0.51 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

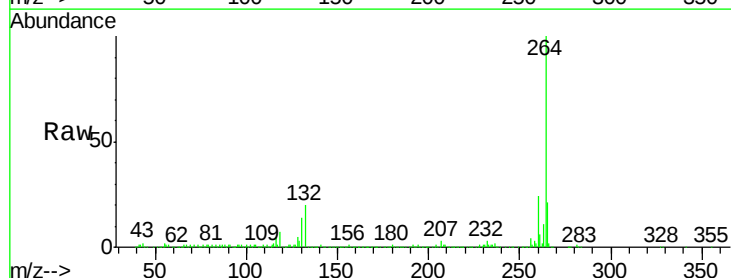
Tgt Ion:264 Resp: 249769

Ion Ratio Lower Upper

264 100

260 23.9 19.2 28.8

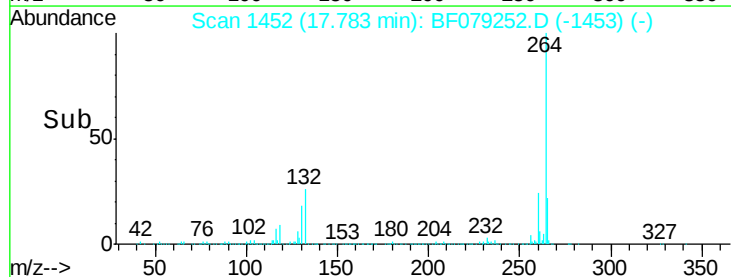
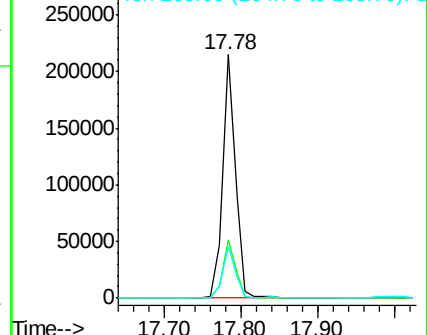
265 21.3 17.2 25.8

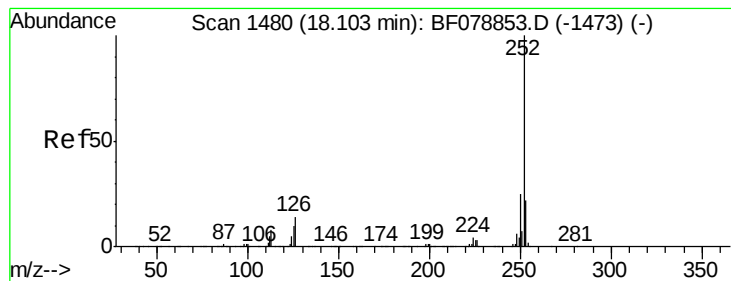


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#89

Benzo(a)pyrene

Concen: 2.40 ng

RT: 17.71 min Scan# 1446

Delta R.T. -0.50 min

Lab File: BF079252.D

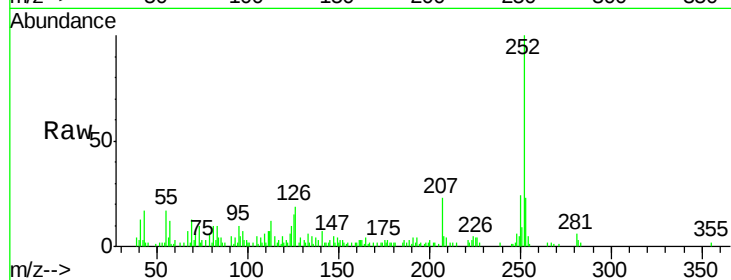
Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4



Tgt Ion:	252	Resp:	30199
Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	14.7	8.2	12.2#

