

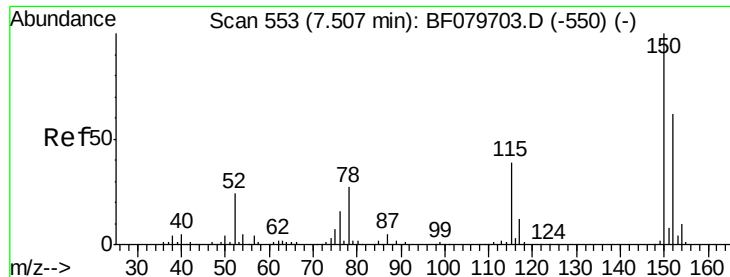
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060415\
 Data File : BF079729.D
 Acq On : 5 Jun 2015 6:10
 Operator : TP/IZ
 Sample : G2456-01
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FILL-02-ALLOCCO

Quant Time: Jun 06 03:35:06 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	62440	20.00	ng	0.00
21) Naphthalene-d8	8.80	136	244488	20.00	ng	0.00
38) Acenaphthene-d10	10.58	164	121191	20.00	ng	0.00
63) Phenanthrene-d10	12.10	188	255417	20.00	ng	0.02
75) Chrysene-d12	0.00	240	0	0.00	ng	-14.98
86) Perylene-d12	16.90	264	2450	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	188383	51.73	ng	0.00
7) Phenol-d6	7.10	99	374205	78.94	ng	0.00
23) Nitrobenzene-d5	8.06	82	193720	48.24	ng	-0.01
41) 2,4,6-Tribromophenol	11.37	330	7335	6.74	ng	0.00
44) 2-Fluorobiphenyl	9.87	172	541805	64.73	ng	0.00
78) Terphenyl-d14	13.84	244	669398	0.00	ng	0.10
Target Compounds						Qvalue
31) Naphthalene	8.82	128	303883	22.56	ng	99
33) 4-Chloroaniline	8.82	127	40678	7.60	ng	# 37
37) 2-Methylnaphthalene	9.52	142	103351	11.37	ng	98
45) 1,1'-Biphenyl	9.98	154	26264	2.71	ng	91
49) Dimethylphthalate	10.26	163	43827	4.69	ng	# 98
50) 2,6-Dinitrotoluene	10.31	165	1854	4.04	ng	# 48
51) Acenaphthene	10.60	154	98371	12.33	ng	97
54) Dibenzofuran	10.79	168	155398	13.59	ng	95
57) Fluorene	11.13	166	208528	21.34	ng	99
70) Phenanthrene	12.12	178	1231636	82.90	ng	99
71) Anthracene	12.18	178	497621	33.85	ng	100
72) Carbazole	12.33	167	173955	12.69	ng	99
74) Fluoranthene	13.43	202	1062155	65.90	ng	100
87) Benzo(b)fluoranthene	16.30	252	1883	11.91	ng	# 1
88) Benzo(k)fluoranthene	16.40	252	5076	33.66	ng	# 1
89) Benzo(a)pyrene	16.77	252	72992	505.53	ng	# 55
90) Dibenzo(a,h)anthracene	18.99	278	28372	212.70	ng	# 39
91) Benzo(g,h,i)perylene	19.51	276	10287	75.42	ng	# 4

(#) = 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: BF079729.D

Acq: 5 Jun 2015 6:10

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO

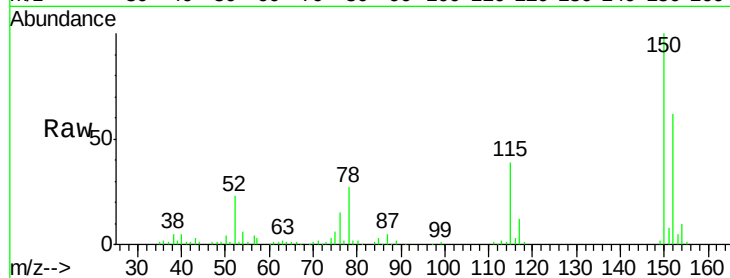
Tgt Ion:152 Resp: 62440

Ion Ratio Lower Upper

152 100

150 161.3 128.1 192.1

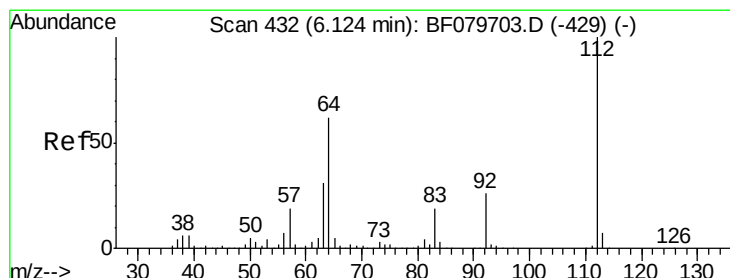
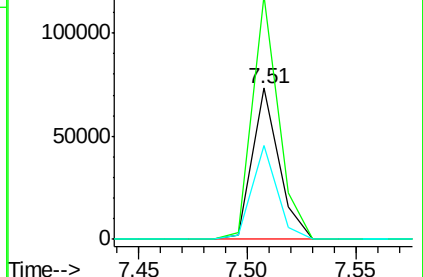
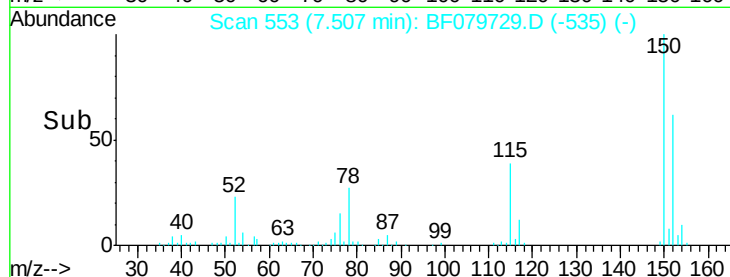
115 62.3 49.7 74.5



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: 51.73 ng

RT: 6.12 min Scan# 432

Delta R.T. 0.00 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

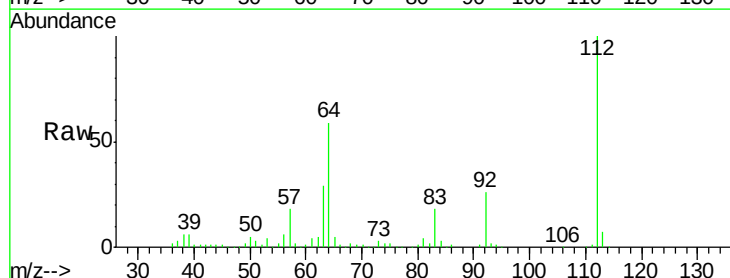
Tgt Ion:112 Resp: 188383

Ion Ratio Lower Upper

112 100

64 59.2 49.6 74.4

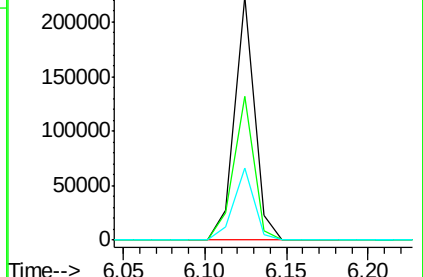
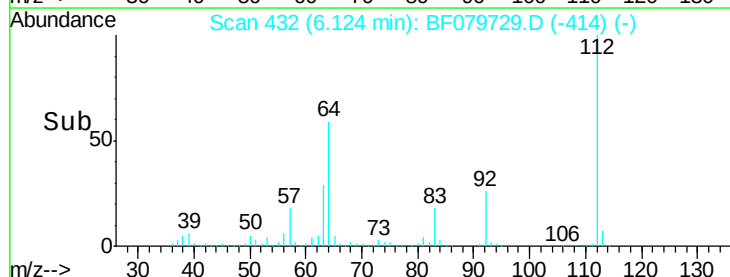
63 29.4 24.9 37.3

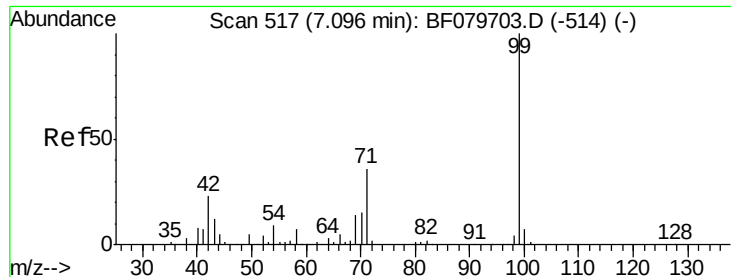


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 78.94 ng

RT: 7.10 min Scan# 517

Delta R.T. 0.00 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO

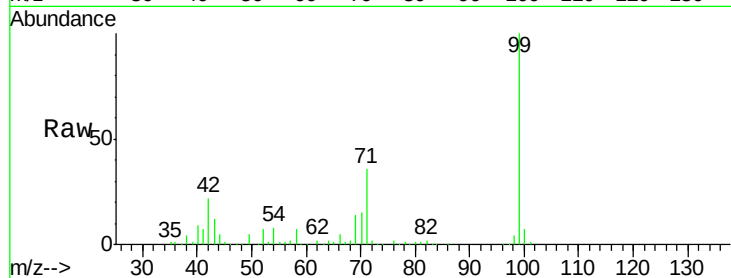
Tgt Ion: 99 Resp: 374205

Ion Ratio Lower Upper

99 100

42 21.6 18.0 27.0

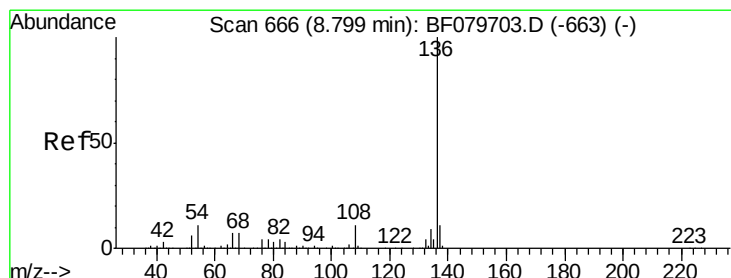
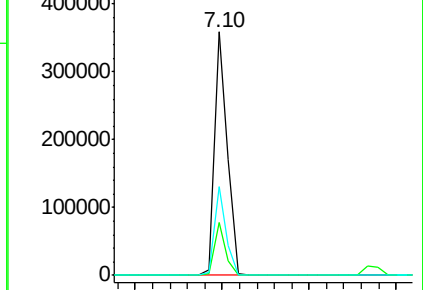
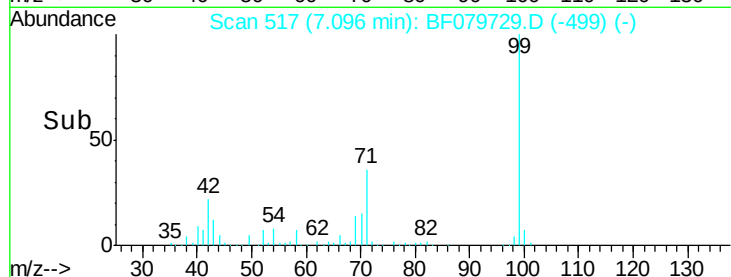
71 36.3 28.4 42.6



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: BF079729.D

Acq: 5 Jun 2015 6:10

Tgt Ion: 136 Resp: 244488

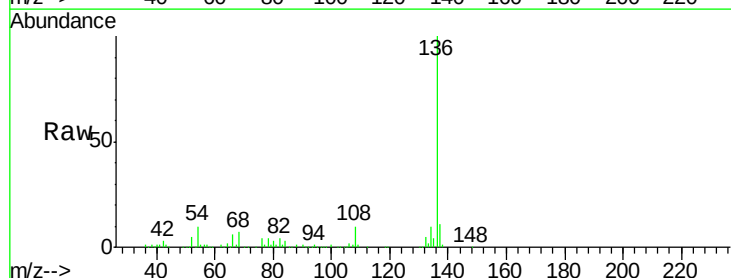
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 9.6 8.7 13.1

68 6.9 5.8 8.8

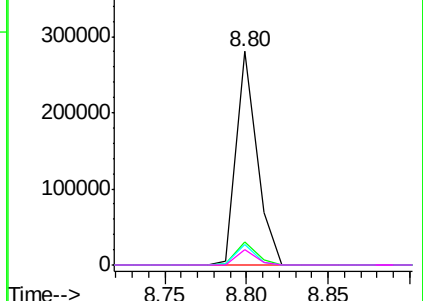
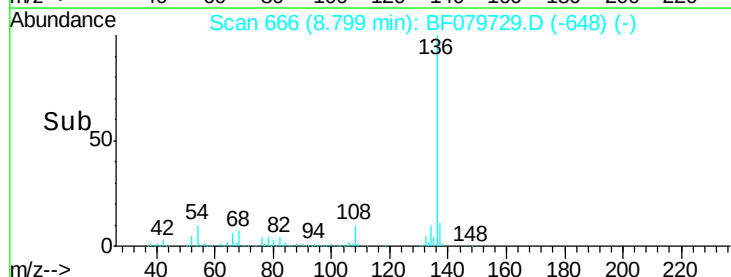


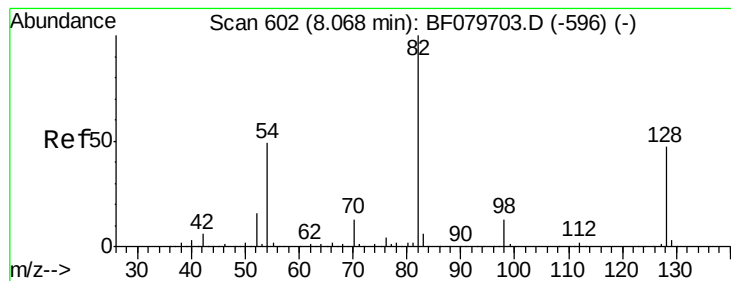
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 48.24 ng

RT: 8.06 min Scan# 601

Delta R.T. -0.01 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO

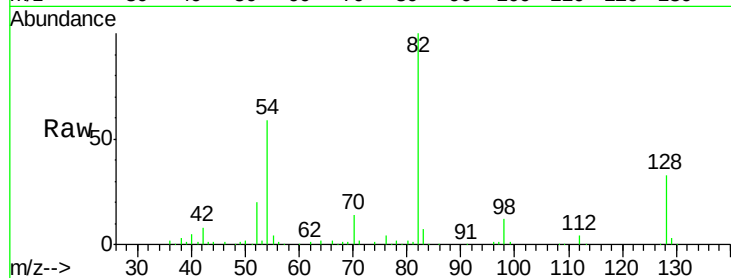
Tgt Ion: 82 Resp: 193720

Ion Ratio Lower Upper

82 100

128 32.9 37.6 56.4#

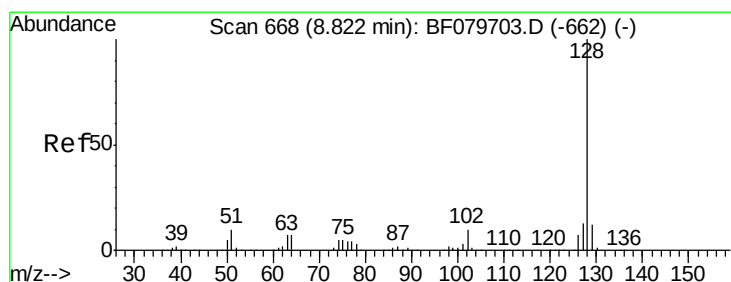
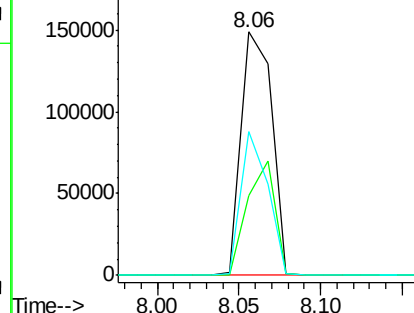
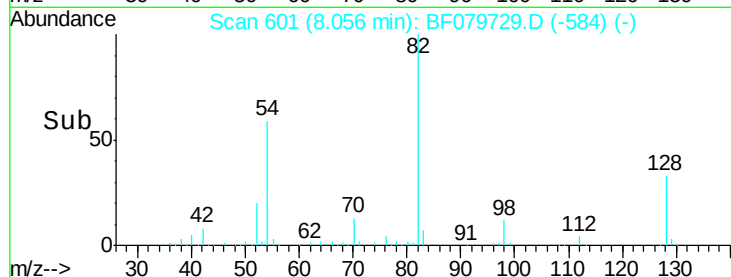
54 59.2 39.4 59.2#



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: 22.56 ng

RT: 8.82 min Scan# 668

Delta R.T. 0.00 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

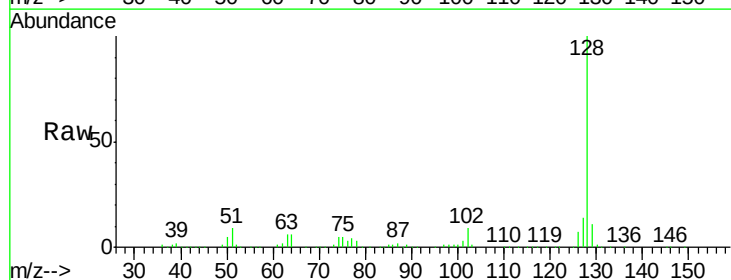
Tgt Ion: 128 Resp: 303883

Ion Ratio Lower Upper

128 100

129 11.0 9.4 14.2

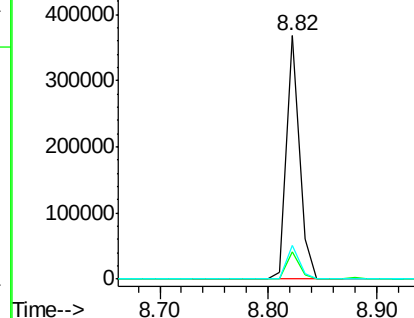
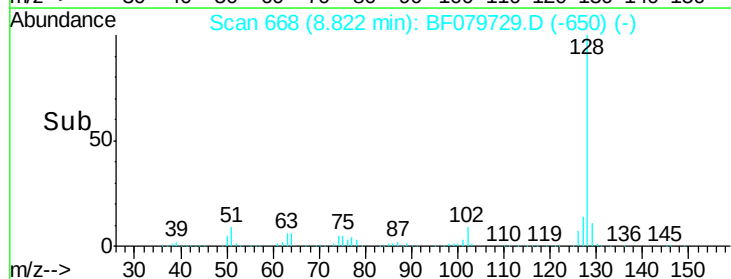
127 13.6 10.7 16.1

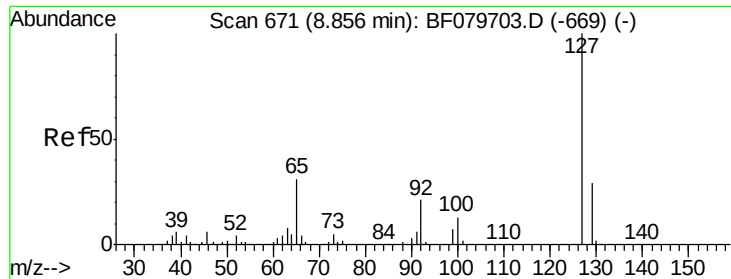


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

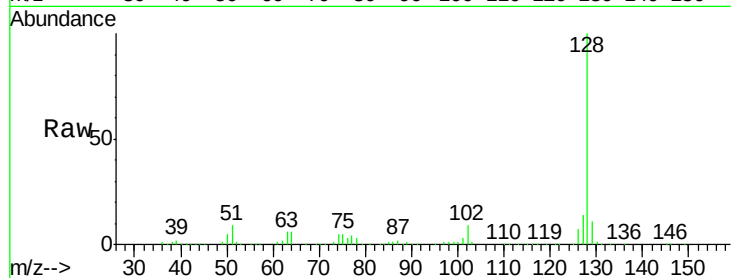




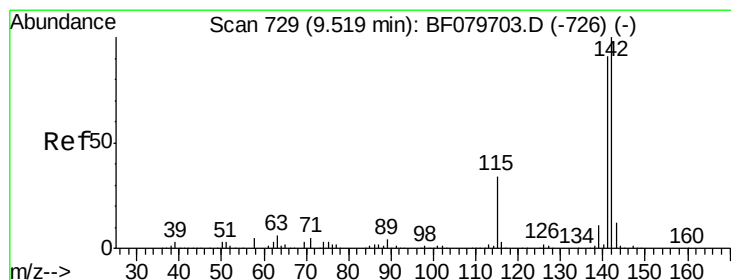
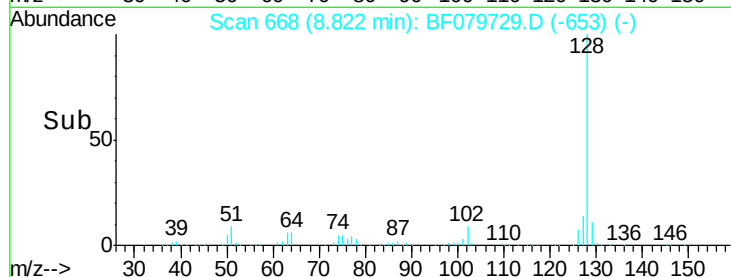
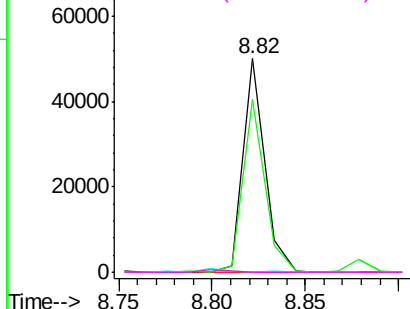
#33
4-Chloroaniline
Concen: 7.60 ng
RT: 8.82 min Scan# 668
Delta R.T. -0.03 min
Lab File: BF079729.D
Acq: 5 Jun 2015 6:10

Instrument :
BNA_F
ClientSampleId :
FILL-02-ALLOCCO

Tgt Ion:127 Resp: 40678
Ion Ratio Lower Upper
127 100
129 80.7 26.8 40.2#
65 0.0 22.9 34.3#
92 0.0 15.2 22.8#

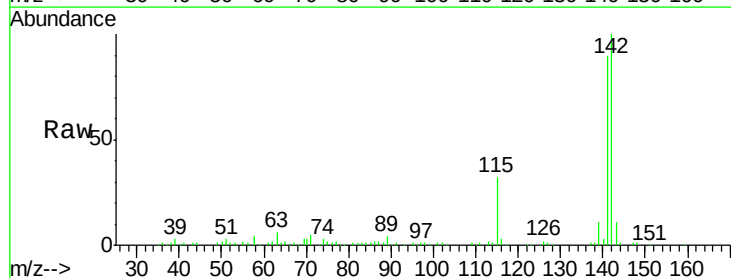


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0

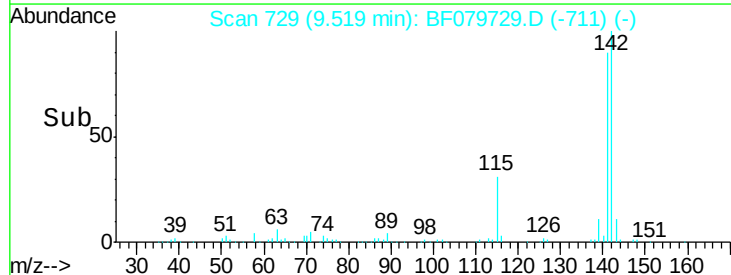
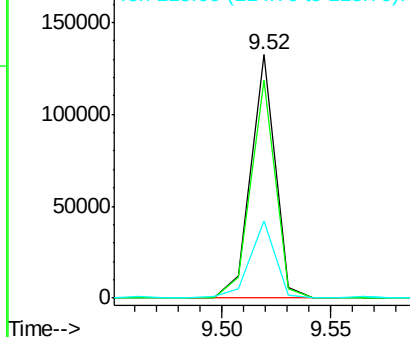


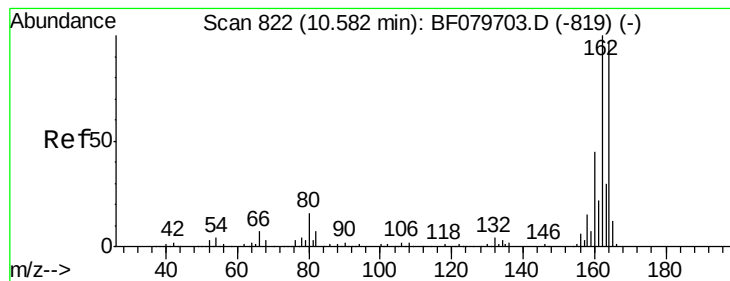
#37
2-Methylnaphthalene
Concen: 11.37 ng
RT: 9.52 min Scan# 729
Delta R.T. 0.00 min
Lab File: BF079729.D
Acq: 5 Jun 2015 6:10

Tgt Ion:142 Resp: 103351
Ion Ratio Lower Upper
142 100
141 89.6 72.8 109.2
115 31.8 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: BF079729.D

Acq: 5 Jun 2015 6:10

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO

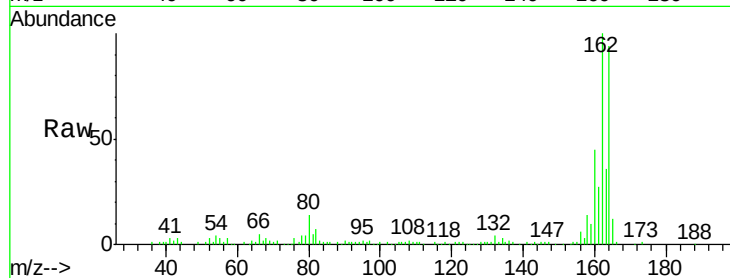
Tgt Ion:164 Resp: 121191

Ion Ratio Lower Upper

164 100

162 106.3 82.6 123.8

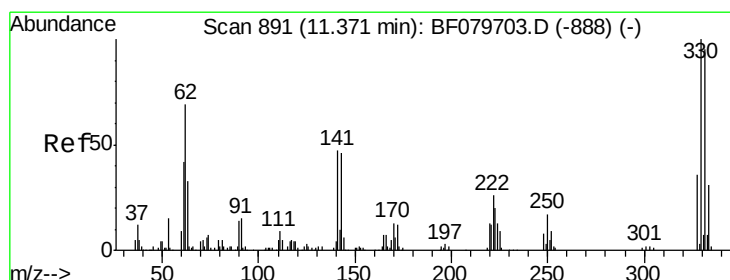
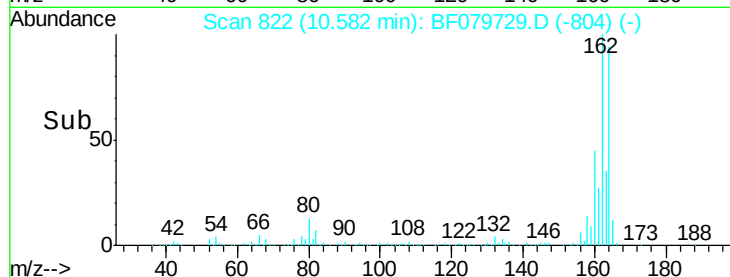
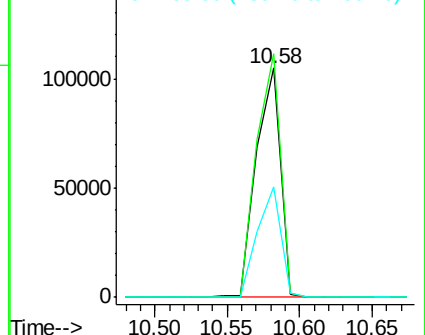
160 48.1 36.8 55.2



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: 6.74 ng

RT: 11.37 min Scan# 891

Delta R.T. 0.00 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

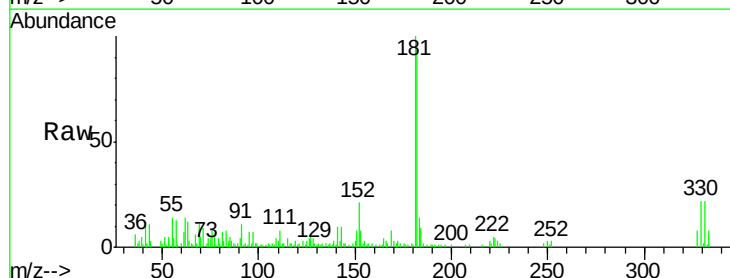
Tgt Ion:330 Resp: 7335

Ion Ratio Lower Upper

330 100

332 97.6 77.4 116.0

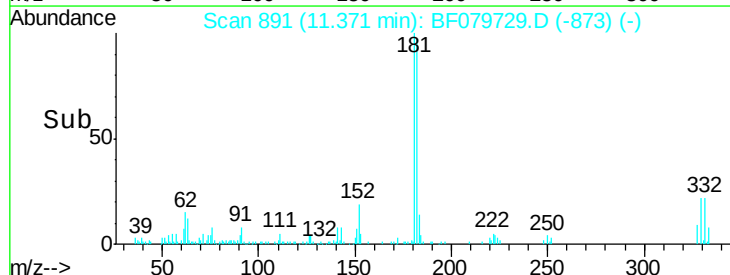
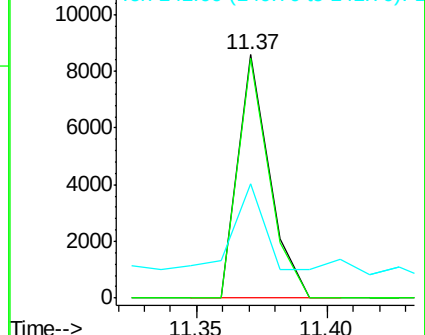
141 56.0 30.2 45.2#

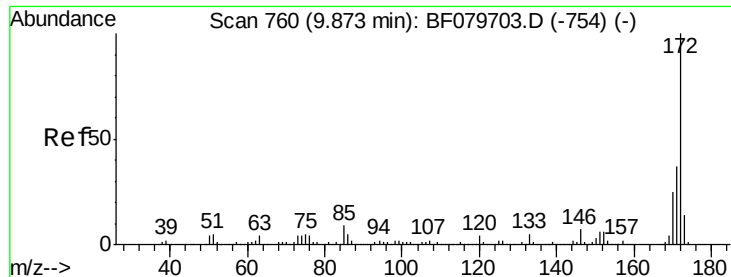


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

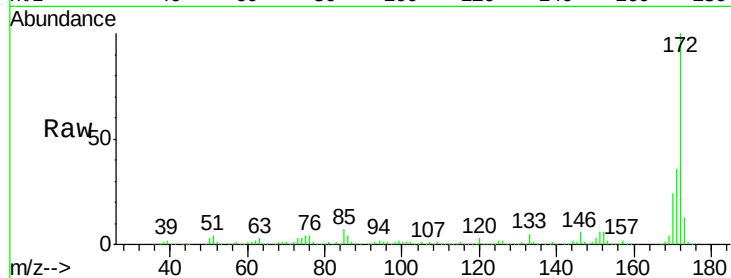




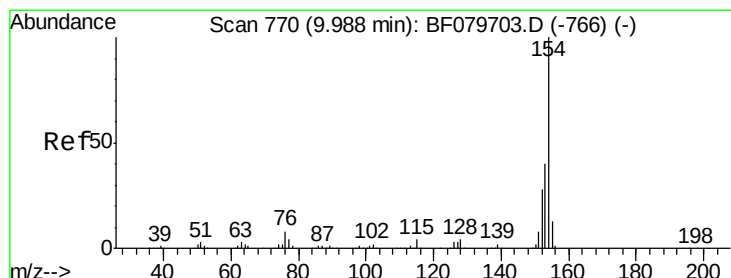
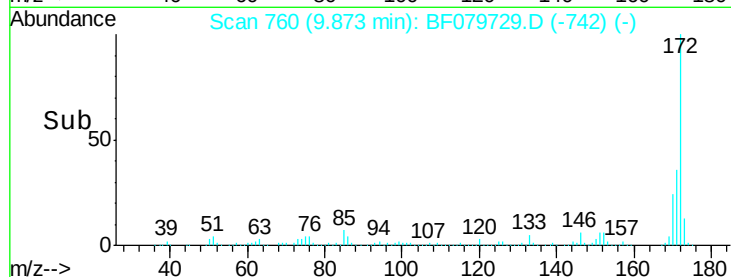
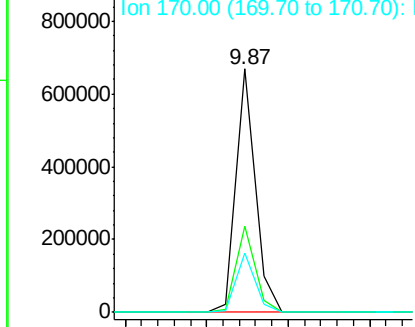
#44
 2-Fluorobiphenyl
 Concen: 64.73 ng
 RT: 9.87 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: BF079729.D
 Acq: 5 Jun 2015 6:10

Instrument :
 BNA_F
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 FILL-02-ALLOCCO

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.4	44.0
170	24.2	19.7	29.5

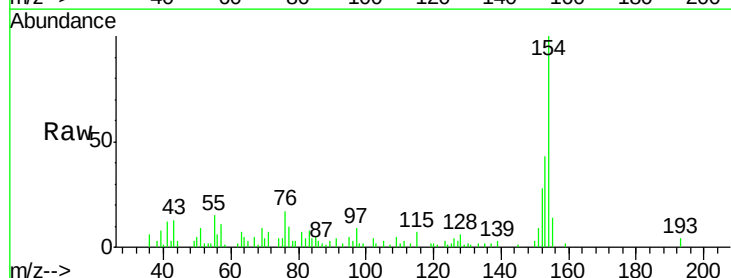


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

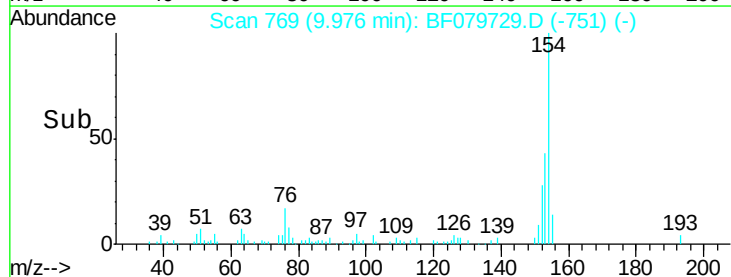
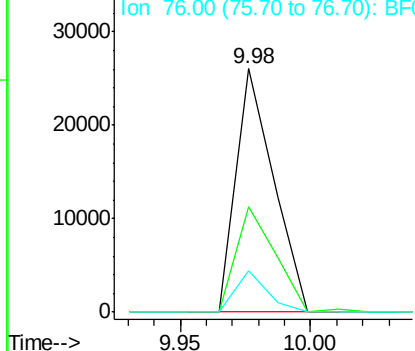


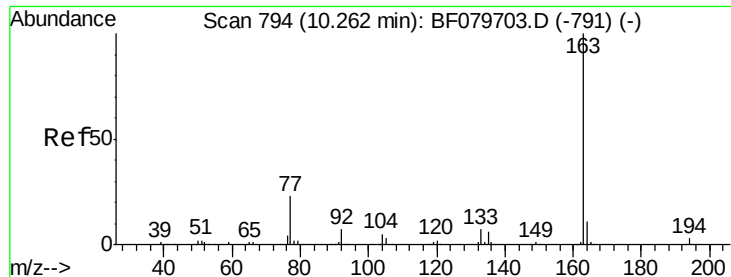
#45
 1,1'-Biphenyl
 Concen: 2.71 ng
 RT: 9.98 min Scan# 769
 Delta R.T. 0.00 min
 Lab File: BF079729.D
 Acq: 5 Jun 2015 6:10

Tgt Ion	Ratio	Lower	Upper
154	100		
153	43.2	19.9	59.9
76	16.8	0.0	28.2



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0





#49

Dimethylphthalate

Concen: 4.69 ng

RT: 10.26 min Scan# 794

Delta R.T. 0.00 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO

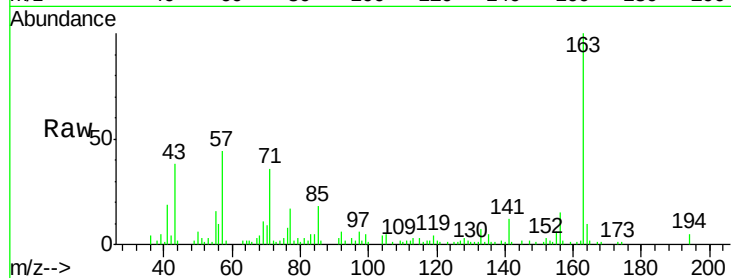
Tgt Ion:163 Resp: 43827

Ion Ratio Lower Upper

163 100

194 4.7 2.6 3.8#

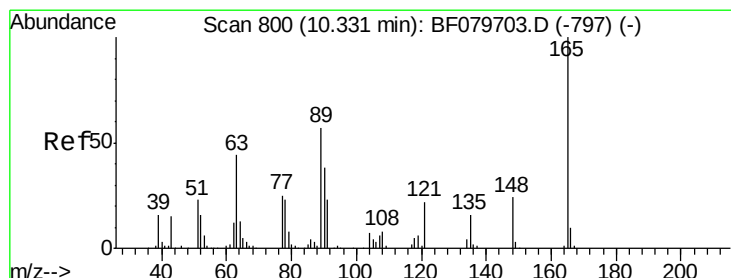
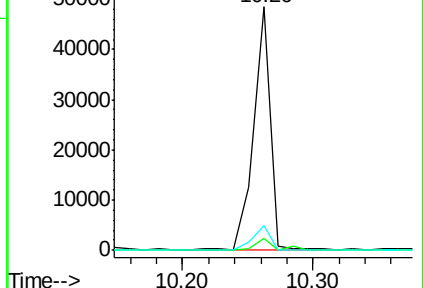
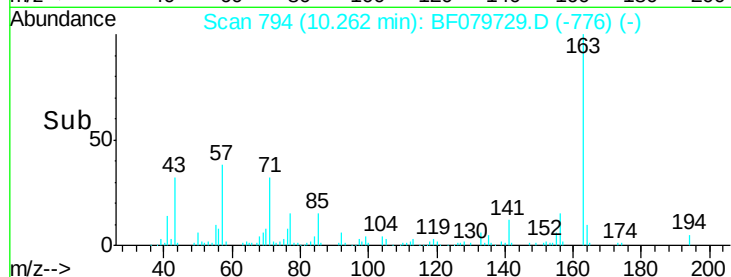
164 10.2 8.5 12.7



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: 4.04 ng

RT: 10.31 min Scan# 798

Delta R.T. -0.02 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

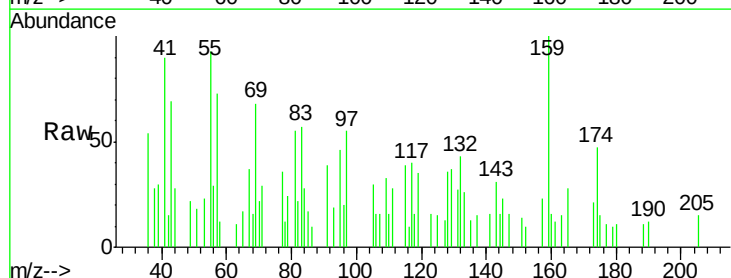
Tgt Ion:165 Resp: 1854

Ion Ratio Lower Upper

165 100

63 37.5 45.2 67.8#

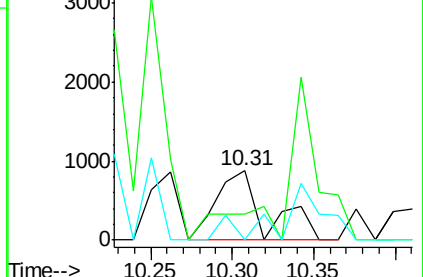
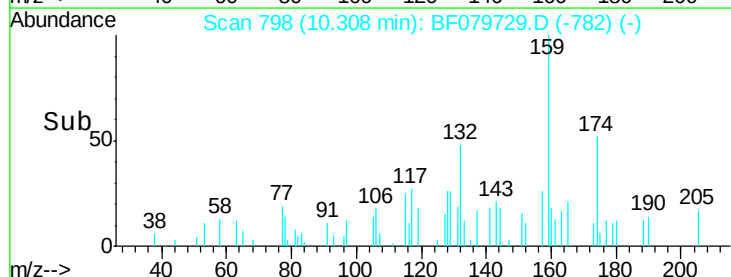
89 0.0 45.9 68.9#

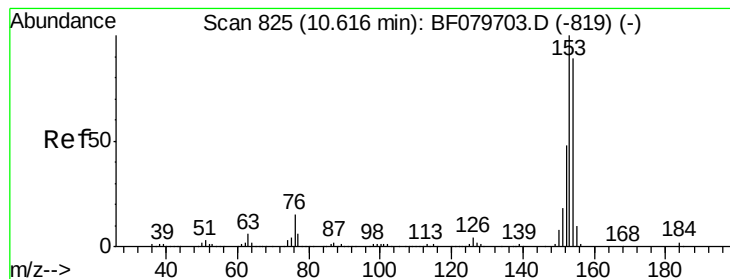


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 12.33 ng

RT: 10.60 min Scan# 824

Delta R.T. -0.01 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO

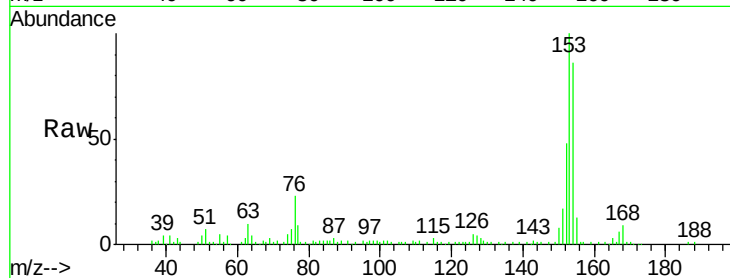
Tgt Ion:154 Resp: 98371

Ion Ratio Lower Upper

154 100

153 116.7 90.1 135.1

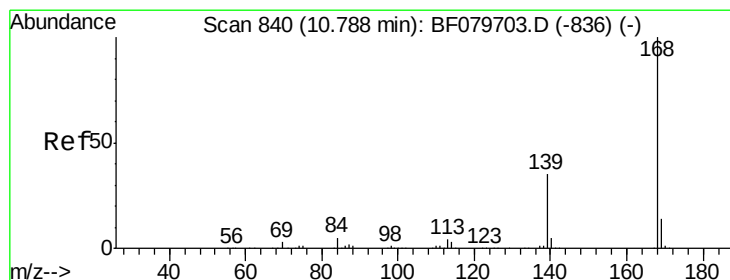
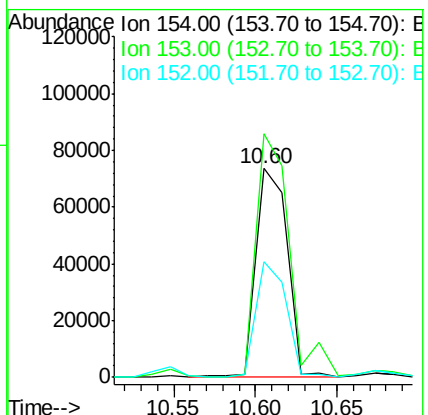
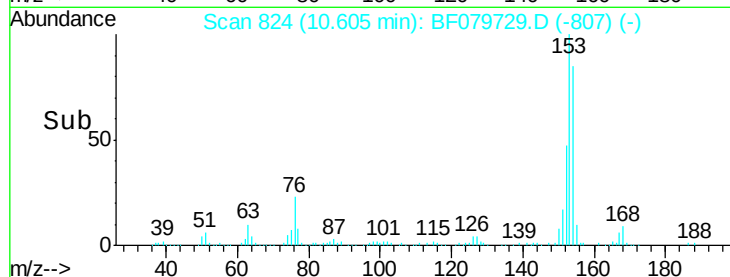
152 55.7 43.4 65.0



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: 13.59 ng

RT: 10.79 min Scan# 840

Delta R.T. 0.00 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

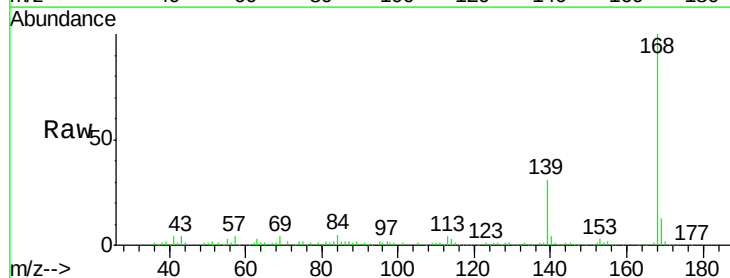
Tgt Ion:168 Resp: 155398

Ion Ratio Lower Upper

168 100

139 31.4 27.7 41.5

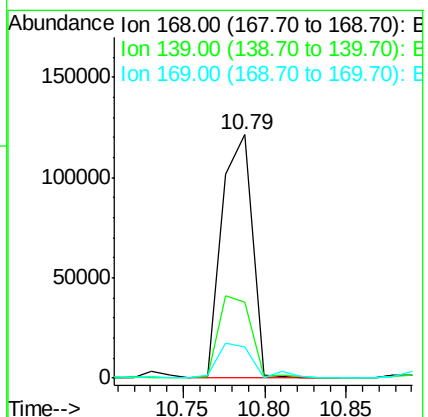
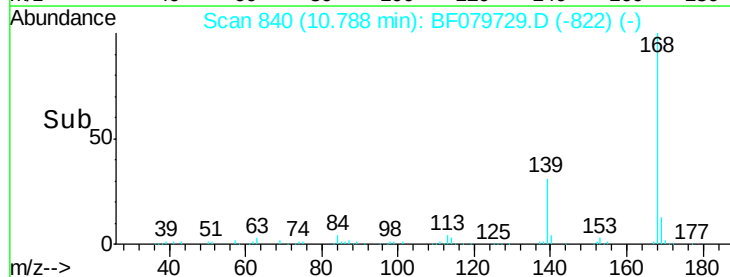
169 12.6 11.0 16.4

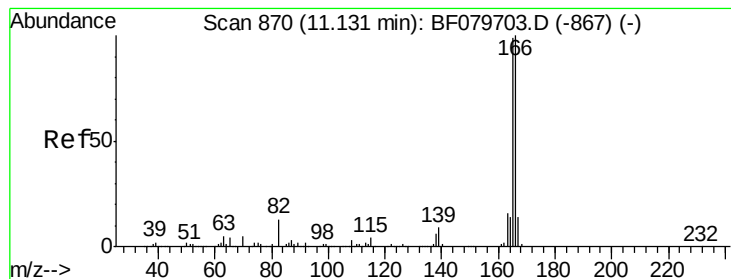


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 21.34 ng

RT: 11.13 min Scan# 870

Delta R.T. 0.00 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO

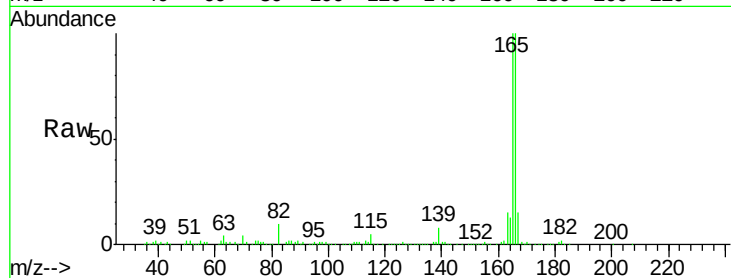
Tgt Ion:166 Resp: 208528

Ion Ratio Lower Upper

166 100

165 99.7 79.4 119.0

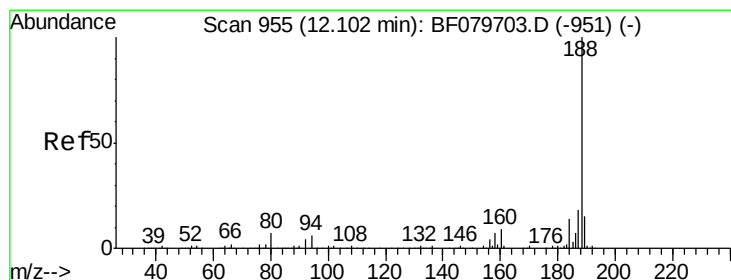
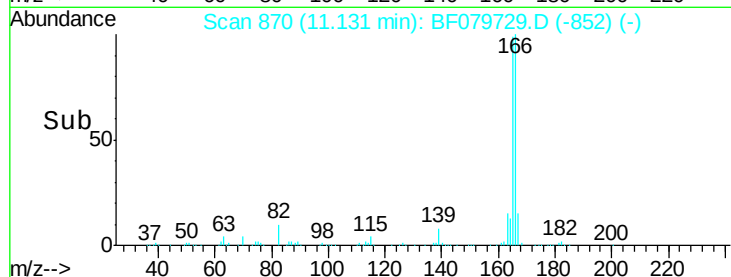
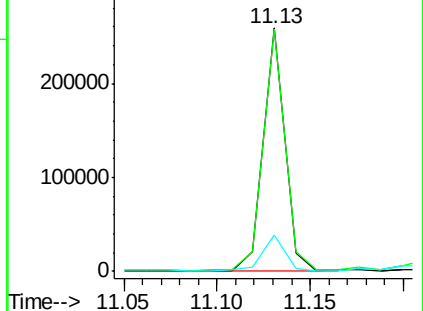
167 14.7 11.0 16.4



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: 12.10 min Scan# 955

Delta R.T. 0.02 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

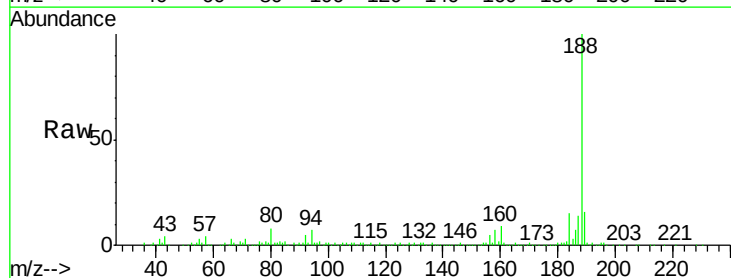
Tgt Ion:188 Resp: 255417

Ion Ratio Lower Upper

188 100

94 7.3 5.0 7.4

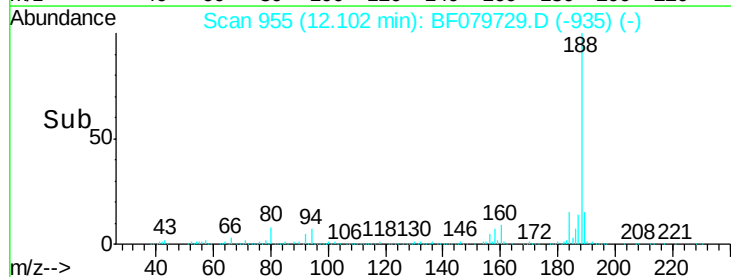
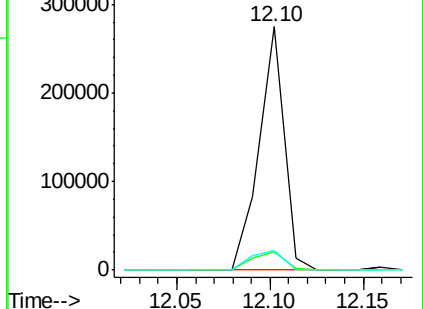
80 8.1 5.3 7.9#

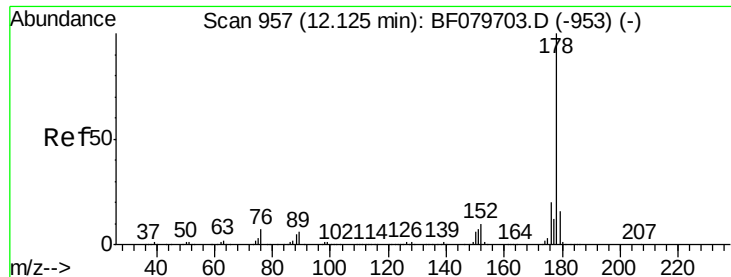


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

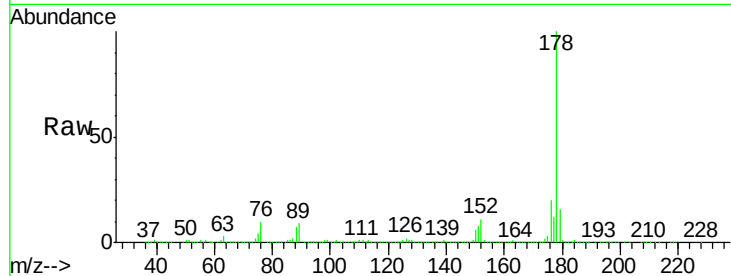




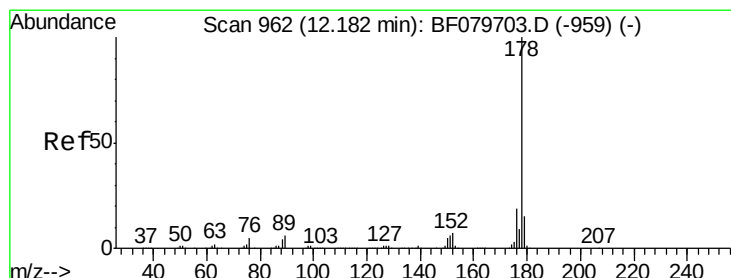
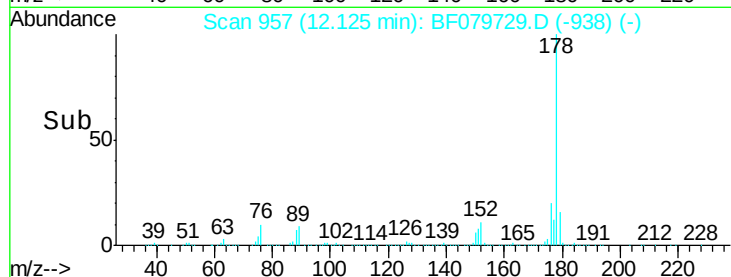
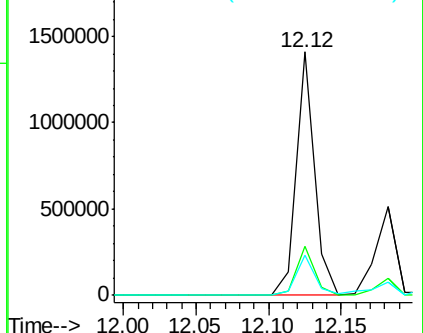
#70
Phenanthrene
Concen: 82.90 ng
RT: 12.12 min Scan# 957
Delta R.T. 0.01 min
Lab File: BF079729.D
Acq: 5 Jun 2015 6:10

Instrument :
BNA_F
ClientSampleId :
FILL-02-ALLOCCO

Tgt Ion:178 Resp: 1231636
Ion Ratio Lower Upper
178 100
176 20.4 16.2 24.4
179 16.5 12.6 19.0

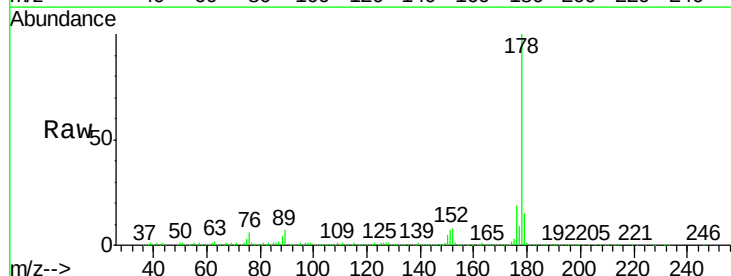


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

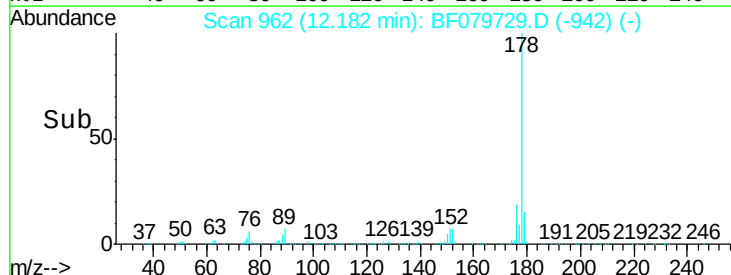
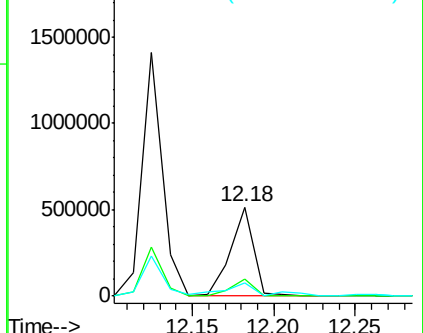


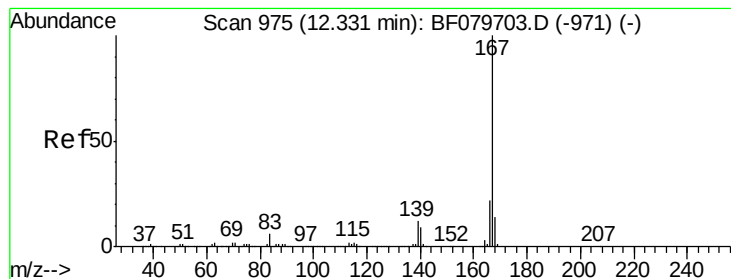
#71
Anthracene
Concen: 33.85 ng
RT: 12.18 min Scan# 962
Delta R.T. 0.02 min
Lab File: BF079729.D
Acq: 5 Jun 2015 6:10

Tgt Ion:178 Resp: 497621
Ion Ratio Lower Upper
178 100
176 18.6 14.8 22.2
179 15.2 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: 12.69 ng

RT: 12.33 min Scan# 975

Delta R.T. 0.02 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO

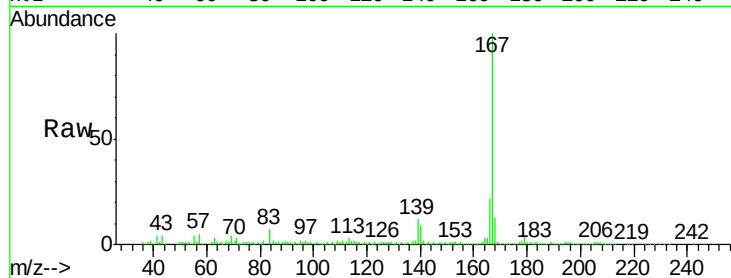
Tgt Ion:167 Resp: 173955

Ion Ratio Lower Upper

167 100

166 21.6 17.7 26.5

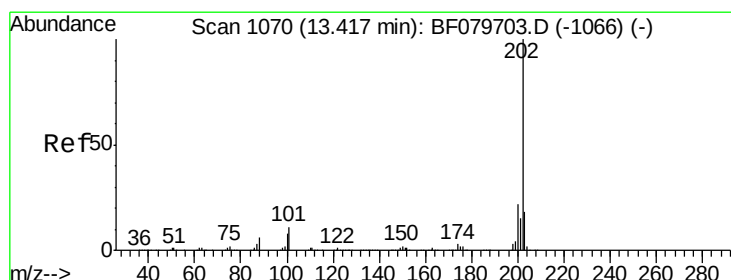
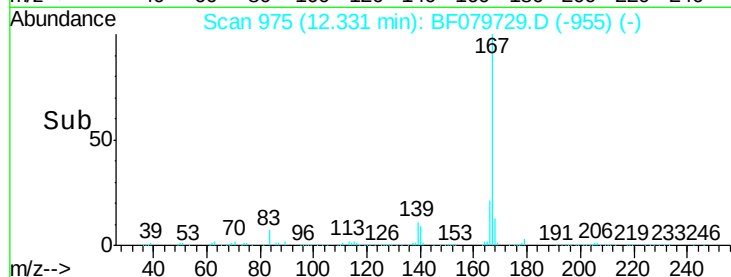
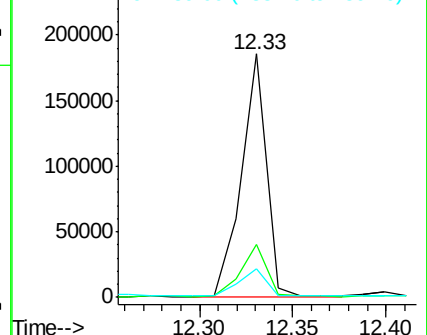
139 11.6 9.3 13.9



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: 65.90 ng

RT: 13.43 min Scan# 1071

Delta R.T. 0.08 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

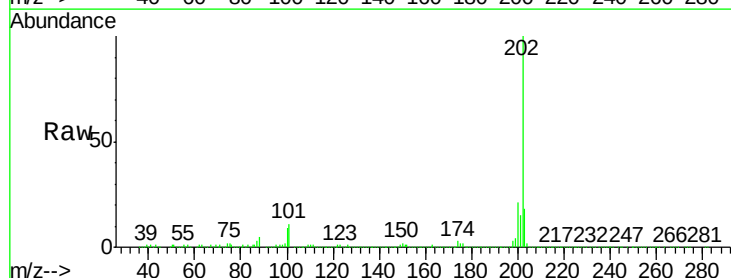
Tgt Ion:202 Resp: 1062155

Ion Ratio Lower Upper

202 100

101 11.3 0.0 31.3

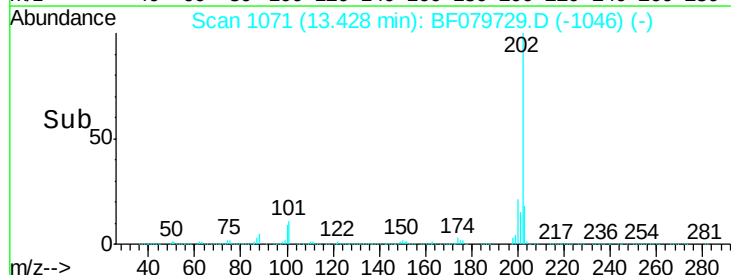
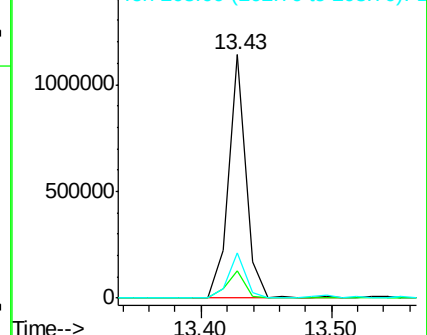
203 18.4 0.0 38.4

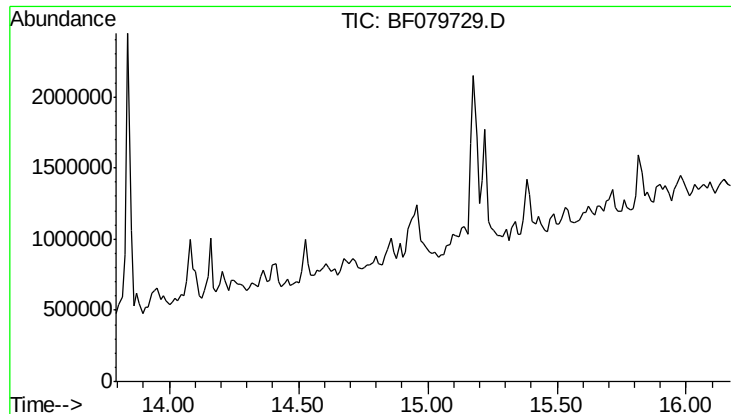


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.98 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

Tgt Ion: 240

Sig Exp Ratio

240 100

120 7.7

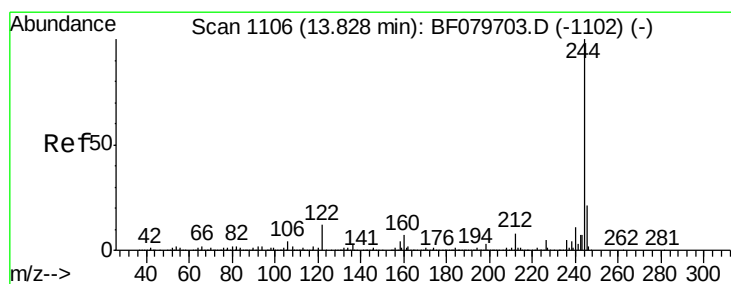
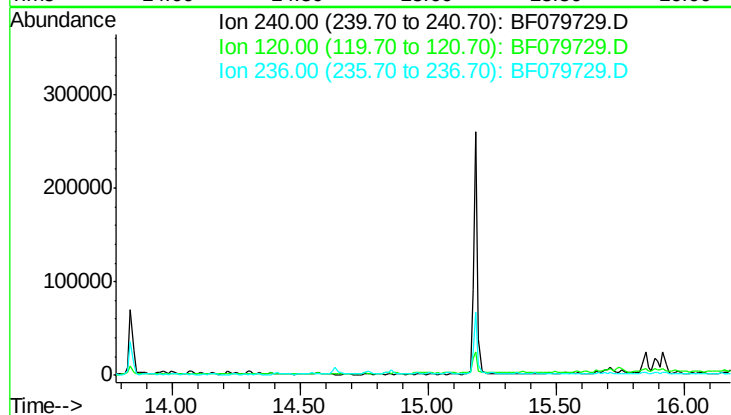
236 26.2

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO



#78

Terphenyl-d14

Concen: 0.00 ng

RT: 13.84 min Scan# 1107

Delta R.T. 0.10 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

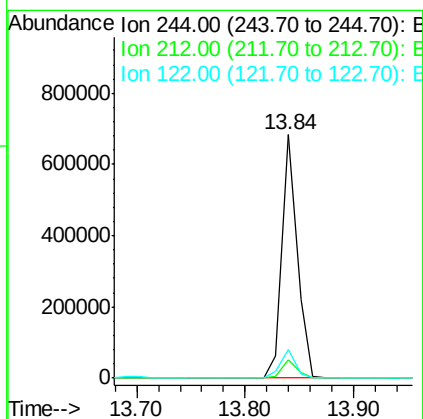
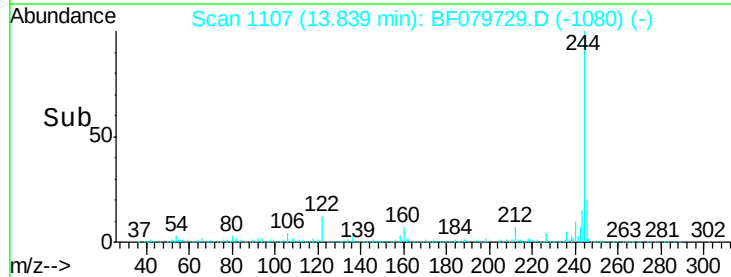
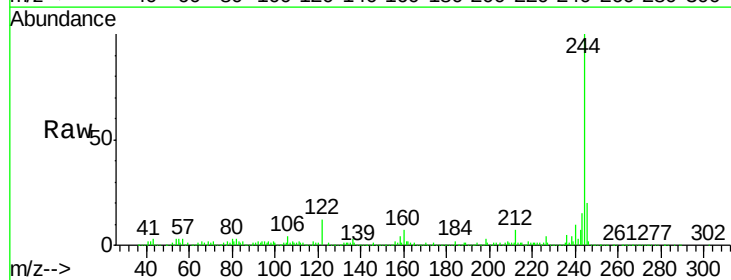
Tgt Ion: 244 Resp: 669398

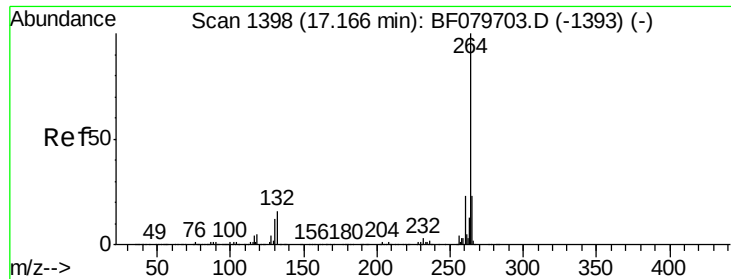
Ion Ratio Lower Upper

244 100

212 7.3 6.1 9.1

122 11.7 9.3 13.9

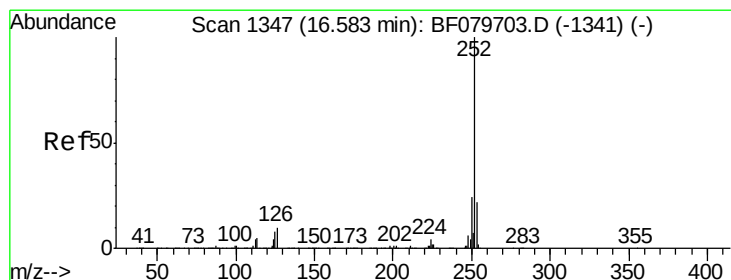
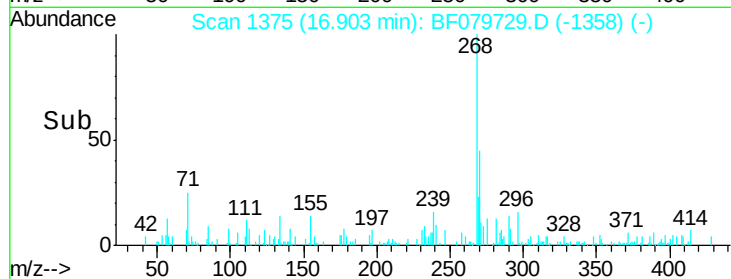
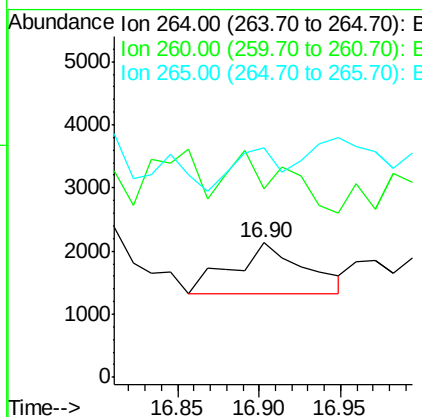
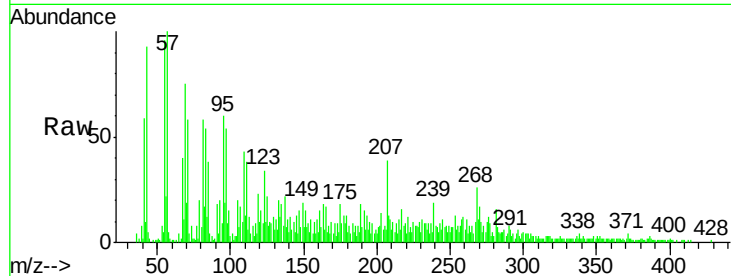




#86
Perylene-d12
Concen: 20.00 ng
RT: 16.90 min Scan# 1375
Delta R.T. -0.01 min
Lab File: BF079729.D
Acq: 5 Jun 2015 6:10

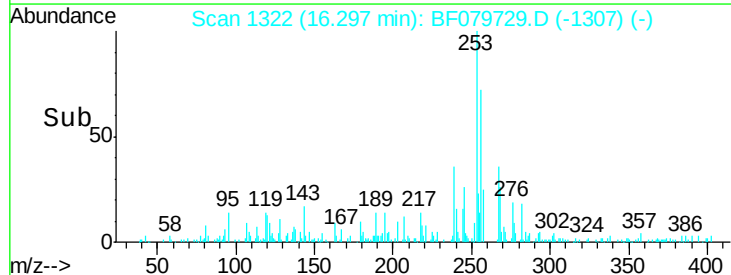
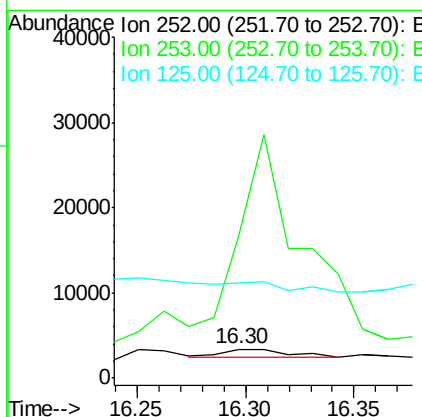
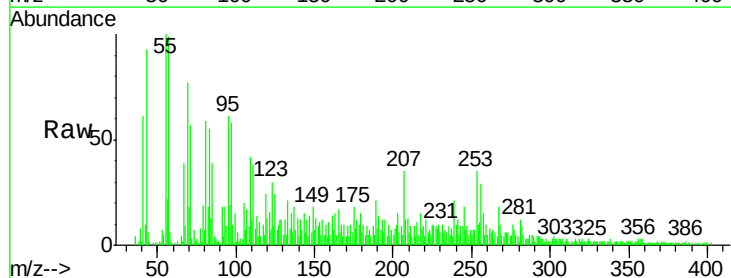
Instrument :
BNA_F
ClientSampleId :
FILL-02-ALLOCCO

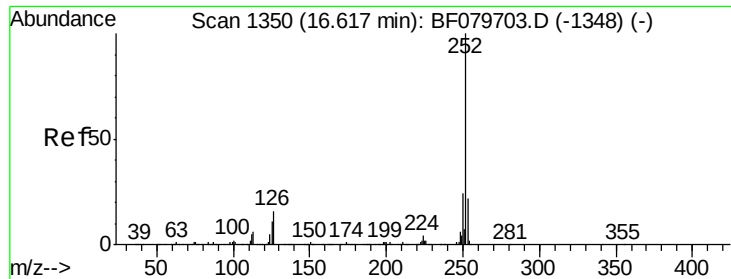
Tgt Ion: 264 Resp: 2450
Ion Ratio Lower Upper
264 100
260 140.2 18.6 27.8#
265 171.0 18.2 27.4#



#87
Benzo(b)fluoranthene
Concen: 11.91 ng
RT: 16.30 min Scan# 1322
Delta R.T. -0.03 min
Lab File: BF079729.D
Acq: 5 Jun 2015 6:10

Tgt Ion: 252 Resp: 1883
Ion Ratio Lower Upper
252 100
253 491.8 17.4 26.2#
125 329.6 6.5 9.7#





#88

Benzo(k)fluoranthene

Concen: 33.66 ng

RT: 16.40 min Scan# 1331

Delta R.T. 0.02 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO

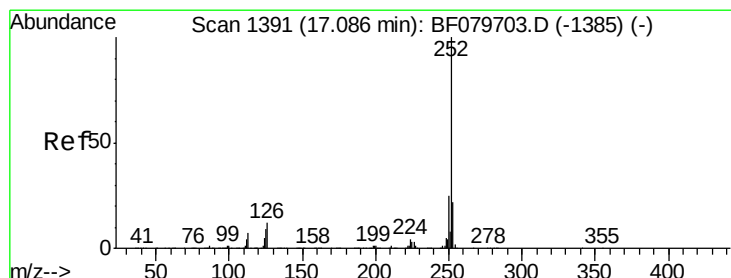
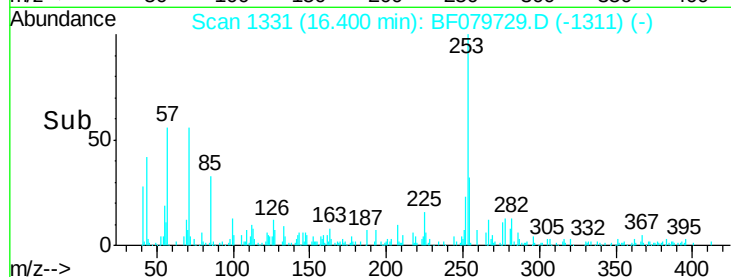
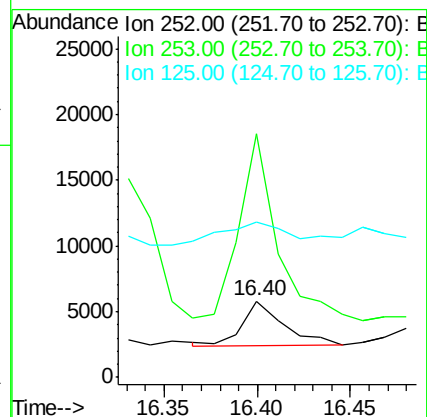
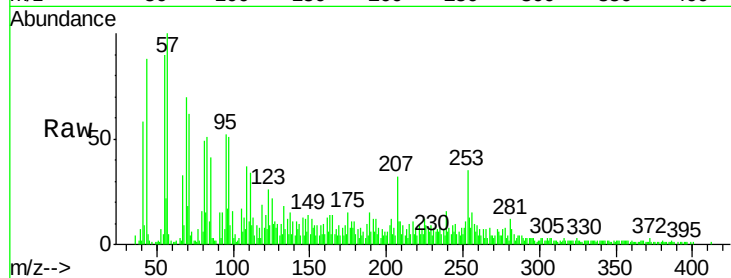
Tgt Ion:252 Resp: 5076

Ion Ratio Lower Upper

252 100

253 318.7 17.8 26.8#

125 203.0 8.4 12.6#



#89

Benzo(a)pyrene

Concen: 505.53 ng

RT: 16.77 min Scan# 1363

Delta R.T. -0.07 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

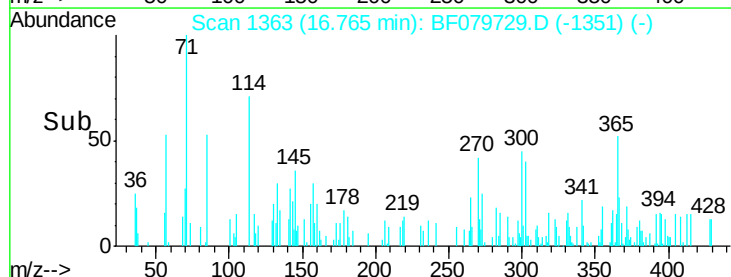
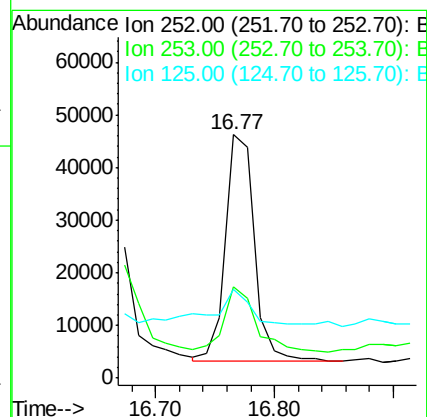
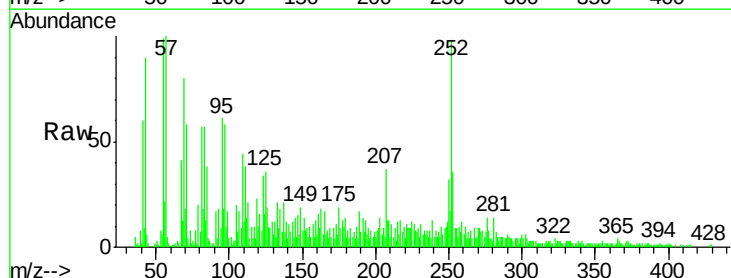
Tgt Ion:252 Resp: 72992

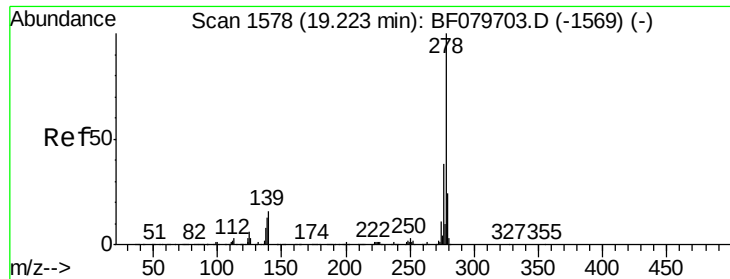
Ion Ratio Lower Upper

252 100

253 37.3 17.6 26.4#

125 36.6 7.4 11.0#





#90

Dibenzo(a,h)anthracene

Concen: 212.70 ng

RT: 18.99 min Scan# 1558

Delta R.T. 0.05 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

Instrument :

BNA_F

ClientSampleId :

FILL-02-ALLOCCO

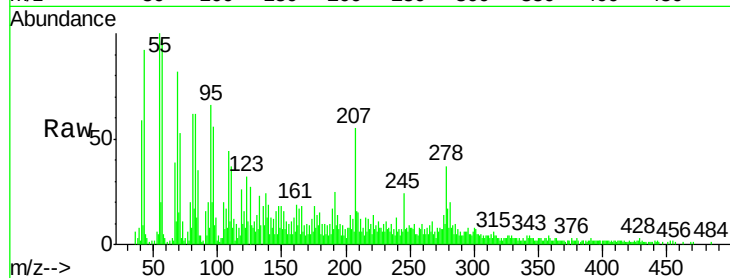
Tgt Ion:278 Resp: 28372

Ion Ratio Lower Upper

278 100

139 51.8 12.7 19.1#

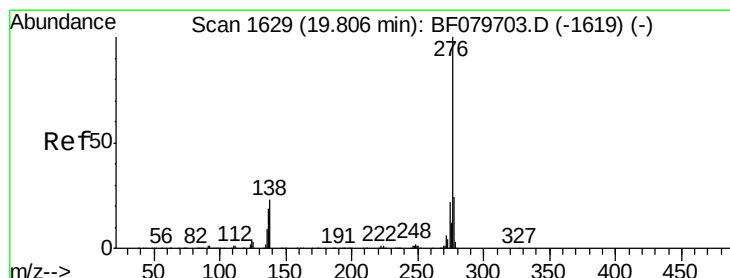
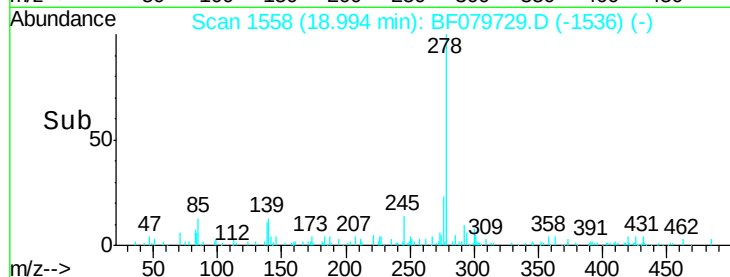
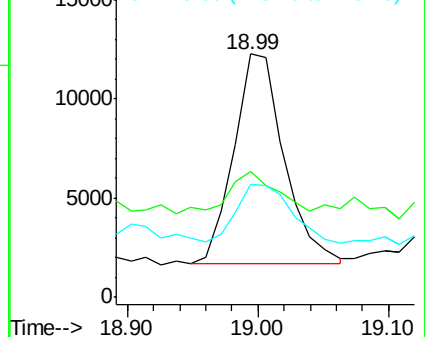
279 46.7 19.4 29.2#



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: 75.42 ng

RT: 19.51 min Scan# 1603

Delta R.T. -0.02 min

Lab File: BF079729.D

Acq: 5 Jun 2015 6:10

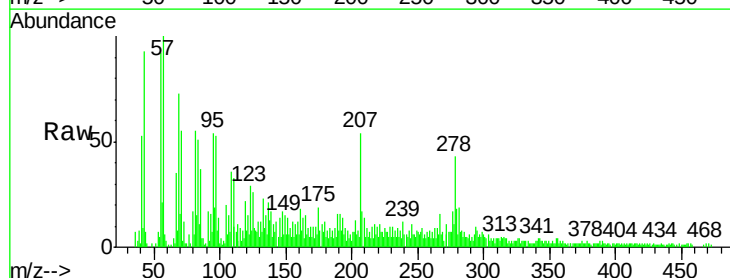
Tgt Ion:276 Resp: 10287

Ion Ratio Lower Upper

276 100

277 64.3 18.8 28.2#

138 75.7 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

