

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061316\
 Data File : BF088000.D
 Acq On : 14 Jun 2016 10:41
 Operator : UM/SJ
 Sample : H3380-03DL 25X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 14 13:39:14 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 13 14:10:49 2016
 Response via : Initial Calibration

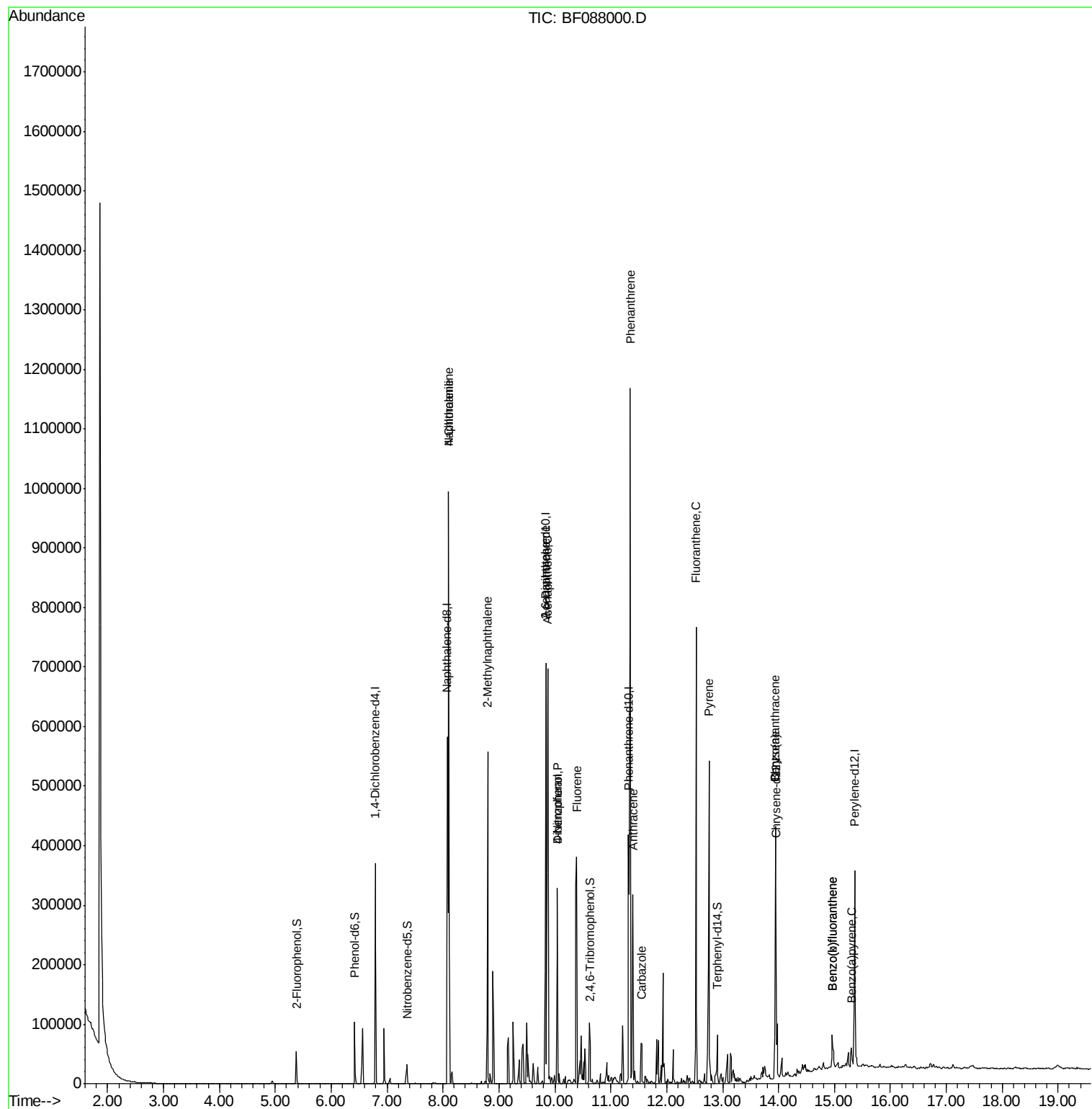
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	73645	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	301865	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	138392	20.00	ng	0.00
63) Phenanthrene-d10	11.31	188	205957	20.00	ng	0.00
75) Chrysene-d12	13.95	240	155506	20.00	ng	0.00
86) Perylene-d12	15.36	264	141659	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	24344	5.65	ng	0.00
7) Phenol-d6	6.42	99	34801	6.67	ng	-0.01
23) Nitrobenzene-d5	7.36	82	16138	3.12	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	4584	3.14	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	38332	-1.27	ng	0.00
78) Terphenyl-d14	12.90	244	25968	3.80	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.10	128	442635	29.63	ng	99
33) 4-Chloroaniline	8.10	127	57268	8.59	ng	# 30
37) 2-Methylnaphthalene	8.80	142	145842	14.81	ng	99
45) 1,1'-Biphenyl	9.26	154	37938	Below Cal		98
50) 2,6-Dinitrotoluene	9.84	165	19887	8.66	ng	# 39
51) Acenaphthene	9.87	154	182423	20.53	ng	98
54) Dibenzofuran	10.04	168	171936	14.05	ng	99
55) 4-Nitrophenol	10.04	139	60014	29.19	ng	# 6
57) Fluorene	10.39	166	158848	16.11	ng	99
70) Phenanthrene	11.35	178	575643	53.26	ng	98
71) Anthracene	11.39	178	120702	11.07	ng	97
72) Carbazole	11.55	167	43163	4.23	ng	# 97
74) Fluoranthene	12.53	202	286937	25.16	ng	98
77) Pyrene	12.75	202	210357	18.23	ng	99
80) Benzo(a)anthracene	13.94	228	60358	6.81	ng	99
82) Chrysene	13.94	228	60358	7.24	ng	95
87) Benzo(b)fluoranthene	14.96	252	38178	3.87	ng	# 93
88) Benzo(k)fluoranthene	14.96	252	38178	5.13	ng	98
89) Benzo(a)pyrene	15.30	252	16274	2.04	ng	96

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

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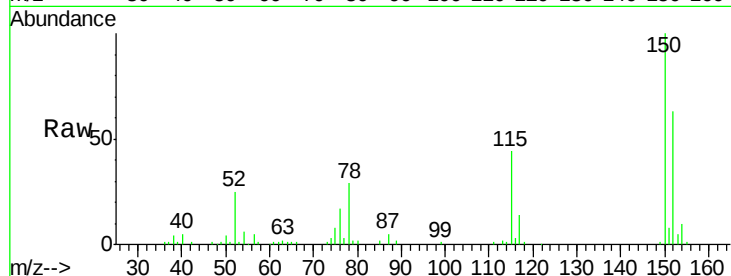


#1

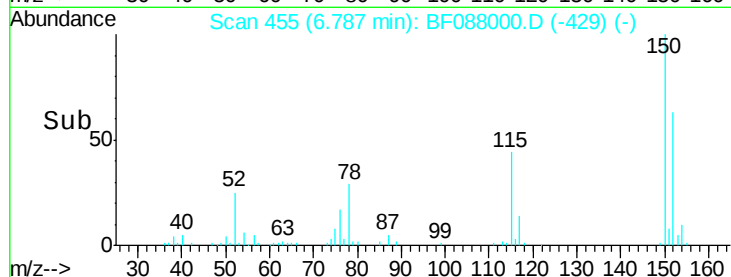
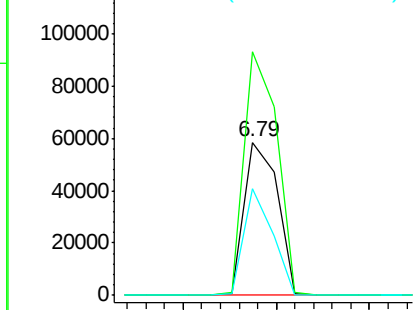
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.79 min Scan# 455
Delta R.T. -0.00 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 73645
Ion Ratio Lower Upper
152 100
150 158.8 123.8 185.6
115 69.3 39.6 59.4#



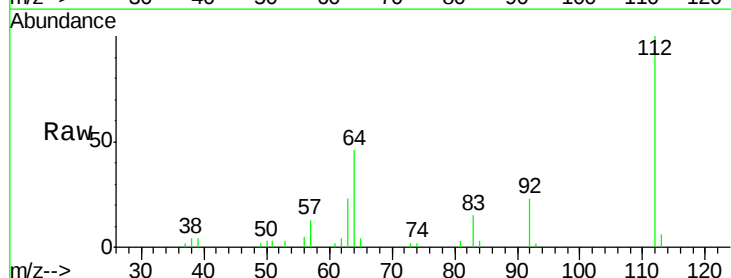
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



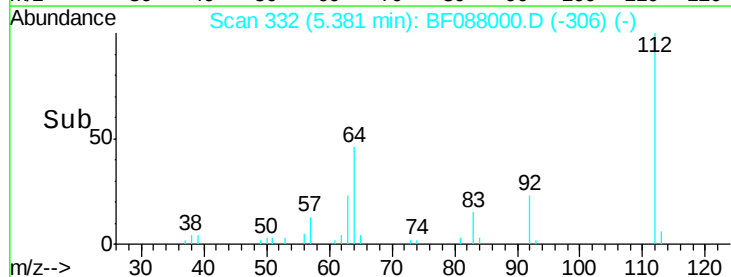
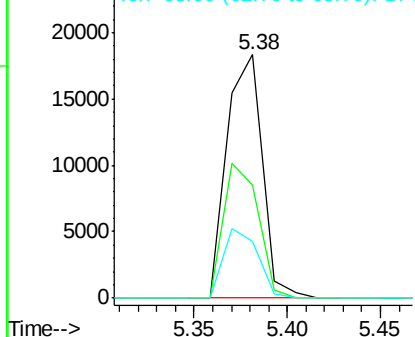
#5

2-Fluorophenol
Concen: 5.65 ng
RT: 5.38 min Scan# 332
Delta R.T. -0.00 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

Tgt Ion:112 Resp: 24344
Ion Ratio Lower Upper
112 100
64 46.4 42.2 63.2
63 23.2 21.8 32.8



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: 6.67 ng

RT: 6.42 min Scan# 423

Delta R.T. -0.01 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA_F

ClientSampled :

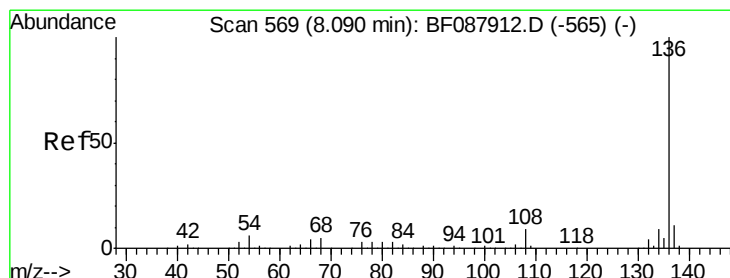
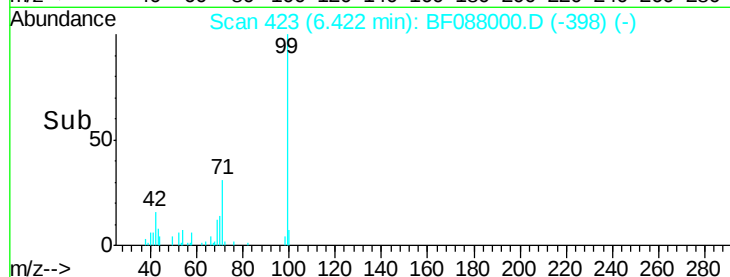
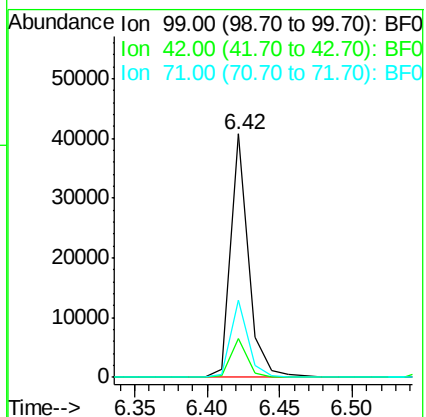
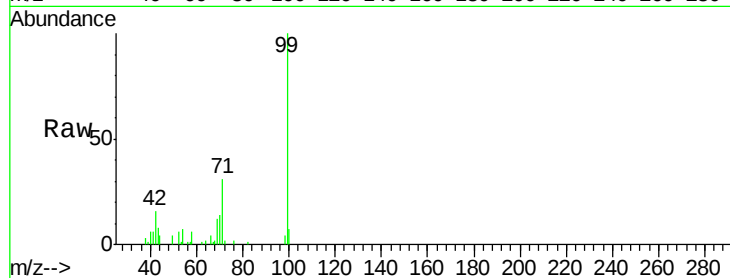
Tot Ion: 99 Resp: 34801

Ion Ratio Lower Upper

99 100

42 16.1 12.2 18.2

71 31.5 23.4 35.0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.08 min Scan# 568

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Tgt Ion: 136 Resp: 301865

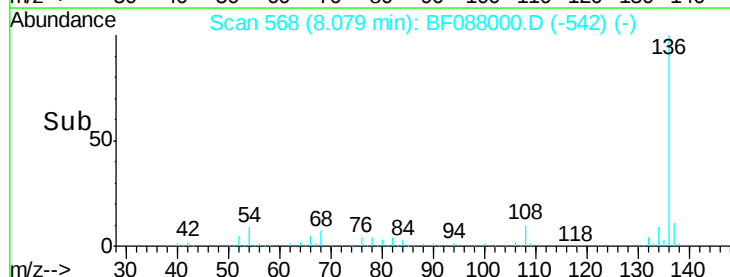
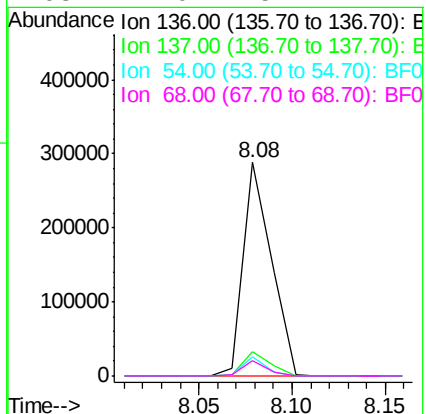
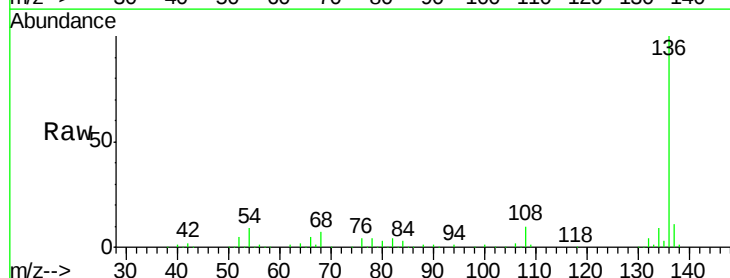
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 8.8 6.6 10.0

68 7.0 5.1 7.7

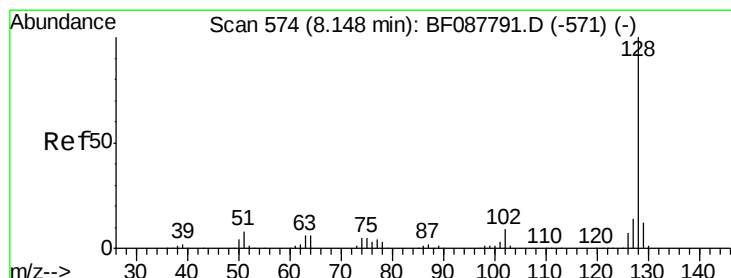
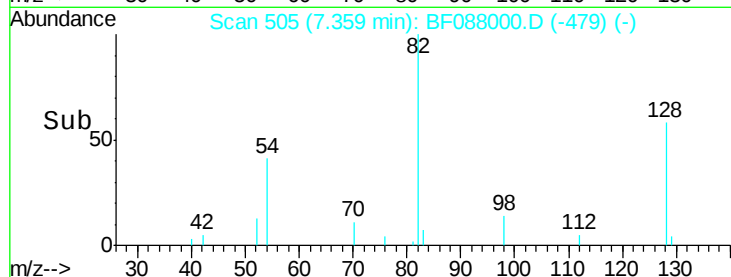
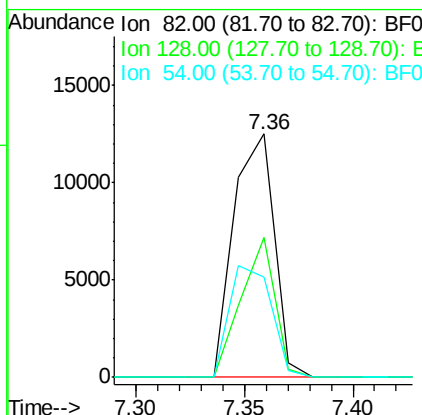
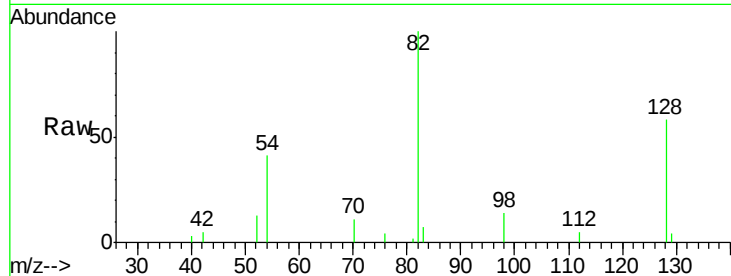




#23
 Nitrobenzene-d5
 Concen: 3.12 ng
 RT: 7.36 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: BF088000.D
 Acq: 14 Jun 2016 10:41

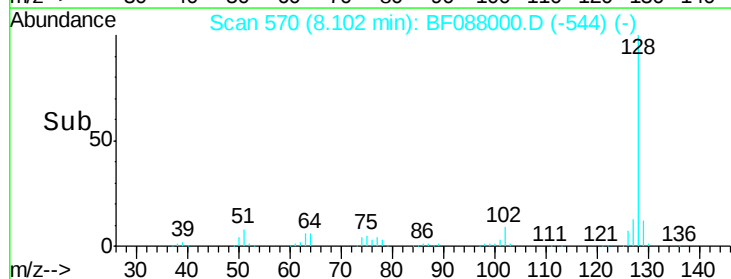
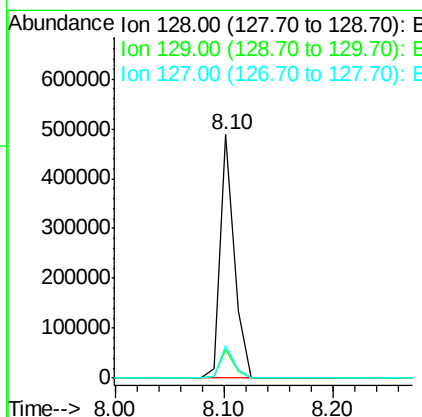
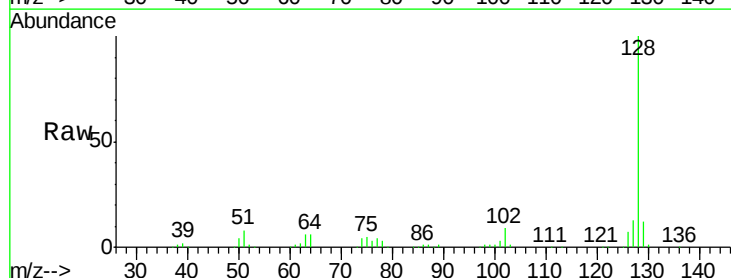
Instrument :
 BNA_F
 ClientSampleId :

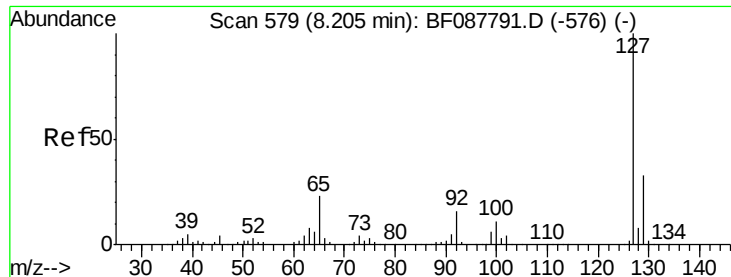
Tot Ion: 82 Resp: 16138
 Ion Ratio Lower Upper
 82 100
 128 57.6 35.9 53.9#
 54 41.4 40.9 61.3



#31
 Naphthalene
 Concen: 29.63 ng
 RT: 8.10 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: BF088000.D
 Acq: 14 Jun 2016 10:41

Tgt Ion: 128 Resp: 442635
 Ion Ratio Lower Upper
 128 100
 129 11.6 9.4 14.2
 127 13.1 10.9 16.3

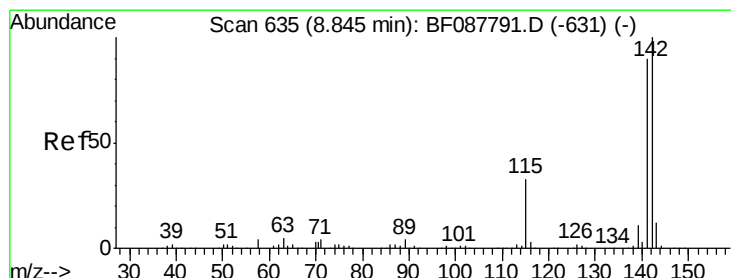
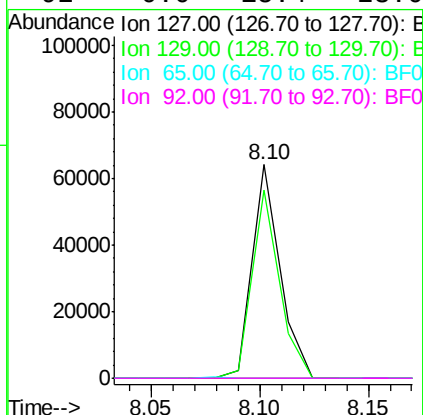
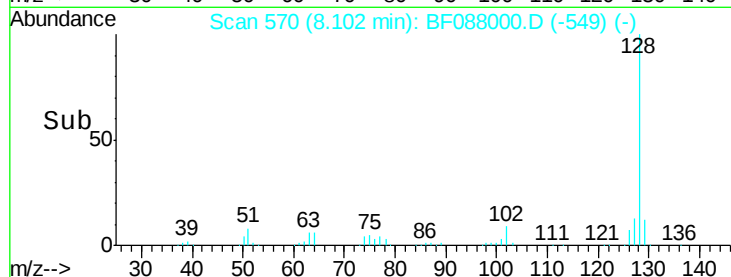
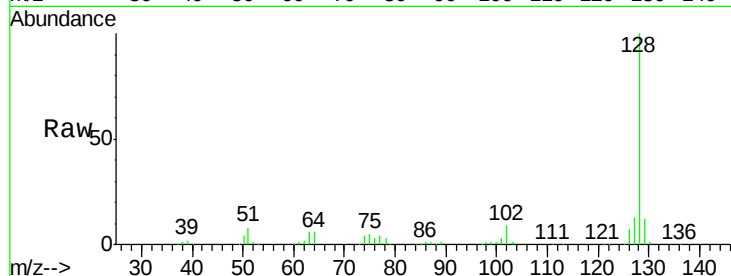




#33
4-Chloroaniline
Concen: 8.59 ng
RT: 8.10 min Scan# 570
Delta R.T. -0.06 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

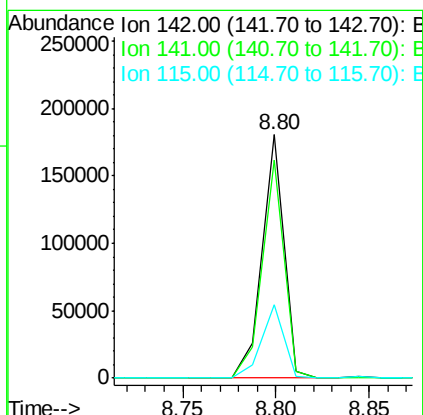
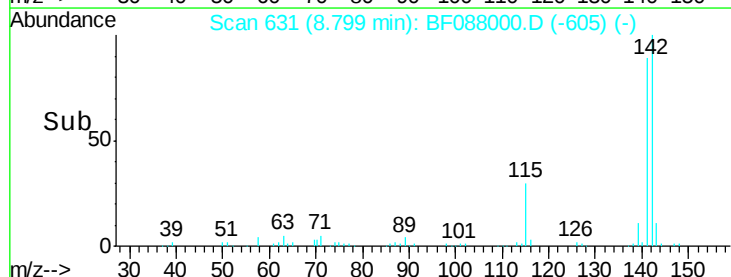
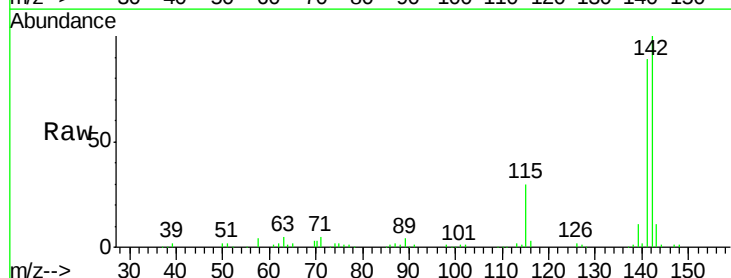
Instrument :
BNA_F
ClientSampleId :

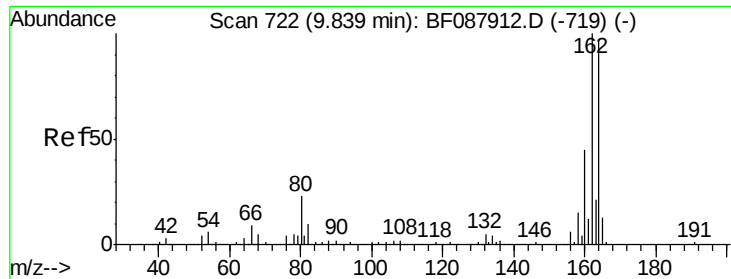
Tot Ion:127 Resp: 57268
Ion Ratio Lower Upper
127 100
129 88.2 26.3 39.5#
65 0.0 24.7 37.1#
92 0.0 15.4 23.0#



#37
2-Methylnaphthalene
Concen: 14.81 ng
RT: 8.80 min Scan# 631
Delta R.T. -0.00 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

Tgt Ion:142 Resp: 145842
Ion Ratio Lower Upper
142 100
141 89.4 71.0 106.6
115 30.0 22.6 33.8

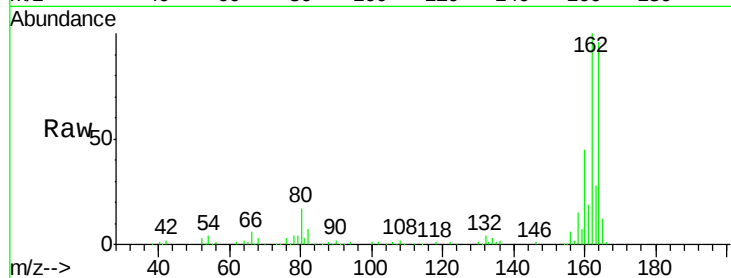




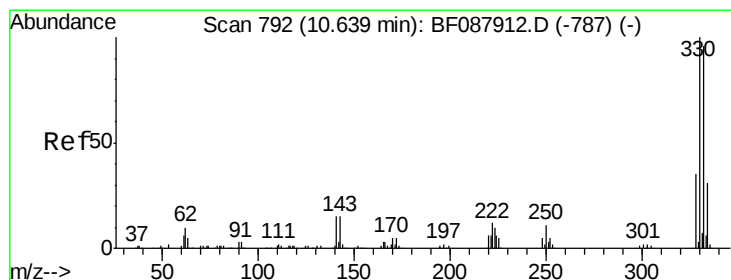
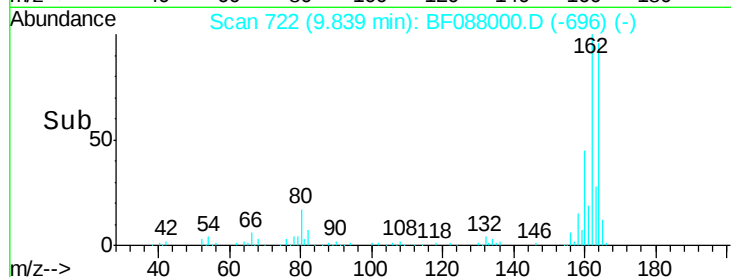
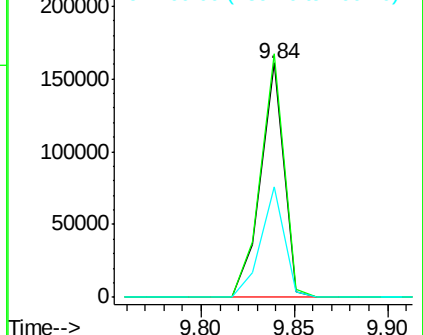
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.84 min Scan# 722
Delta R.T. -0.00 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 138392
Ion Ratio Lower Upper
164 100
162 104.0 85.4 128.2
160 47.0 39.5 59.3

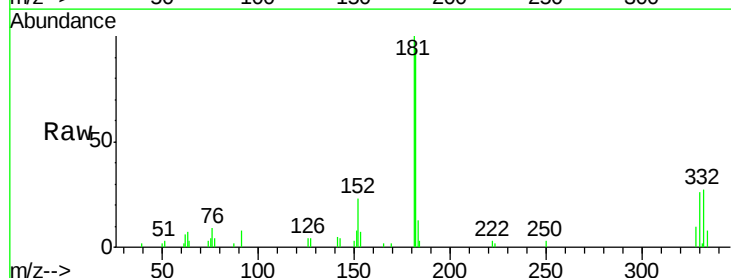


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

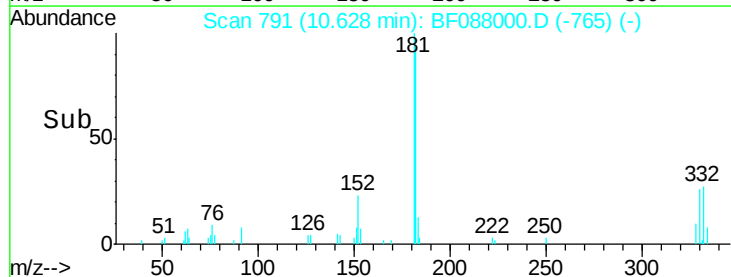
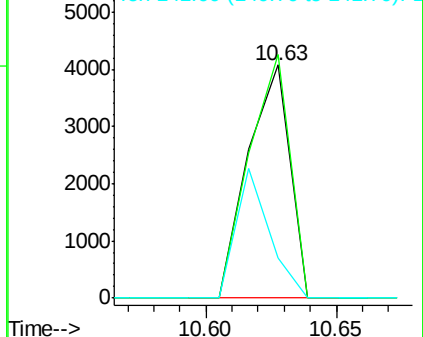


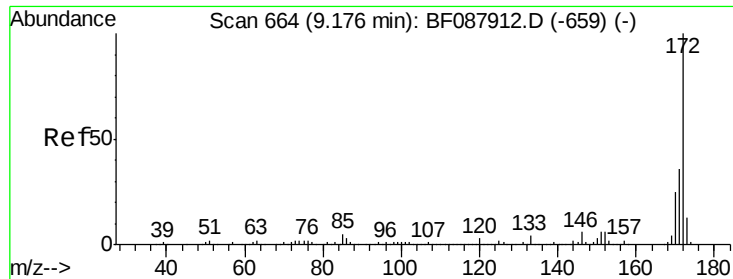
#41
2,4,6-Tribromophenol
Concen: 3.14 ng
RT: 10.63 min Scan# 791
Delta R.T. -0.00 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

Tgt Ion:330 Resp: 4584
Ion Ratio Lower Upper
330 100
332 101.5 0.0 0.0#
141 44.6 0.0 0.0#



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: -1.27 na

RT: 9.16 min Scan# 663

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA_F

ClientSampleId :

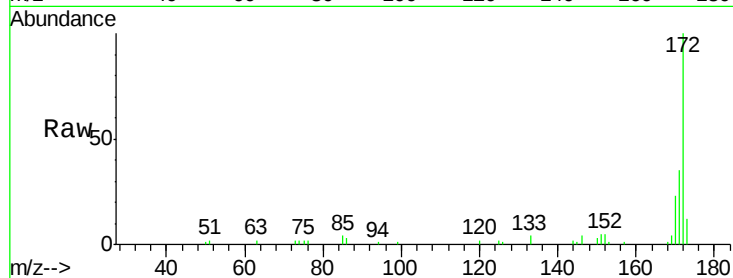
Tot Ion:172 Resp: 38332

Ion Ratio Lower Upper

172 100

171 34.7 28.6 43.0

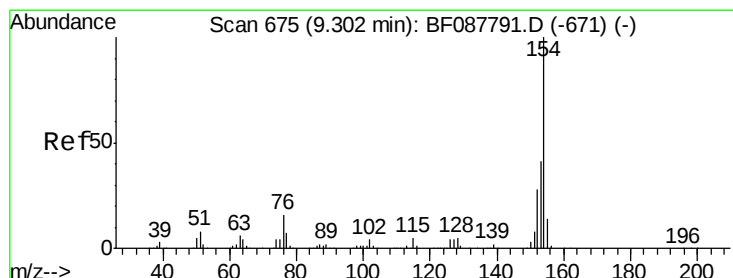
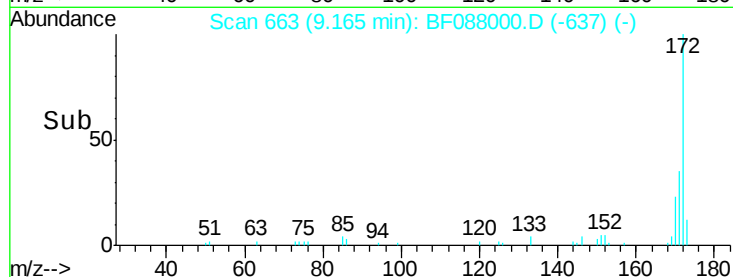
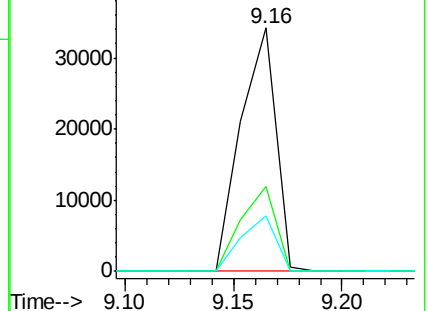
170 22.6 19.2 28.8



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: Below Cal

RT: 9.26 min Scan# 671

Delta R.T. -0.01 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

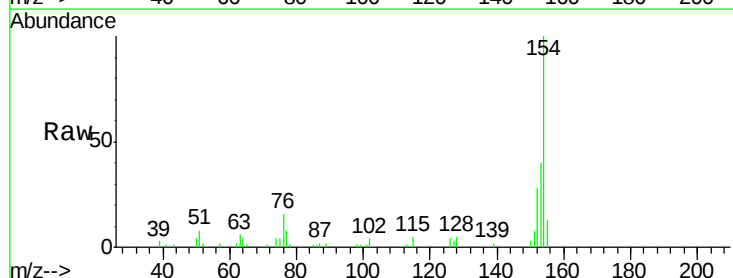
Tgt Ion:154 Resp: 37938

Ion Ratio Lower Upper

154 100

153 39.7 20.6 60.6

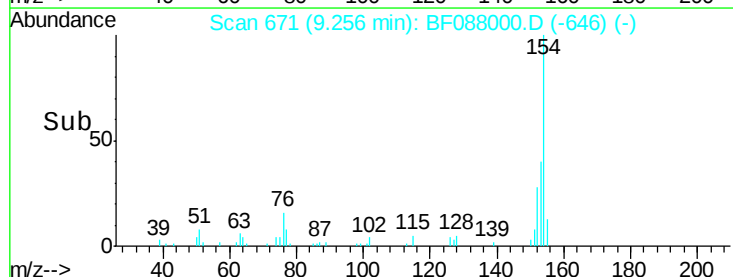
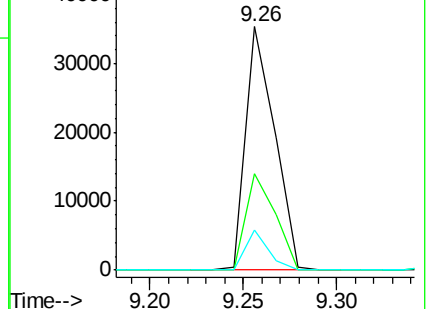
76 16.3 0.0 35.1

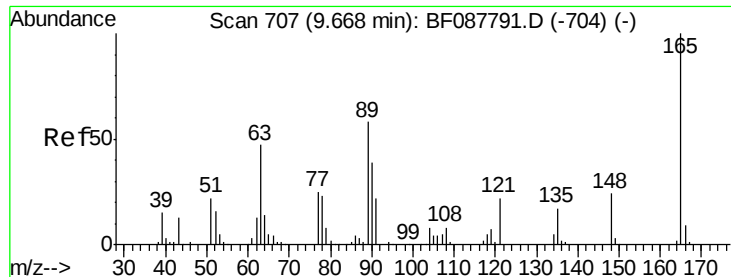


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0

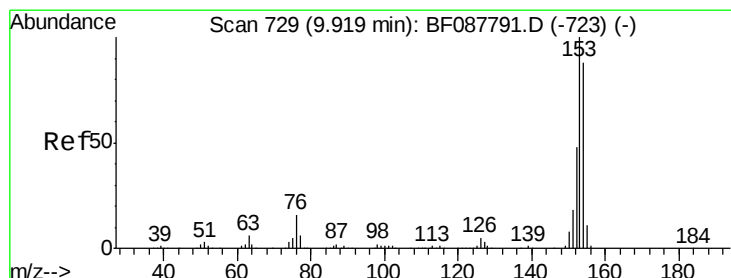
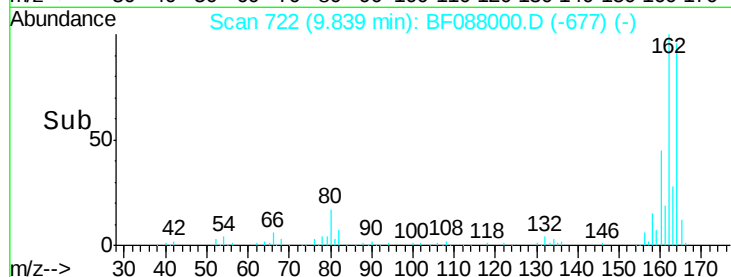
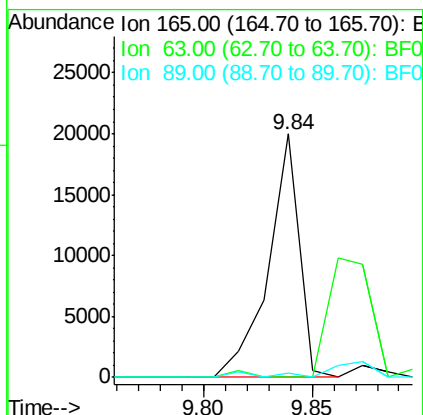
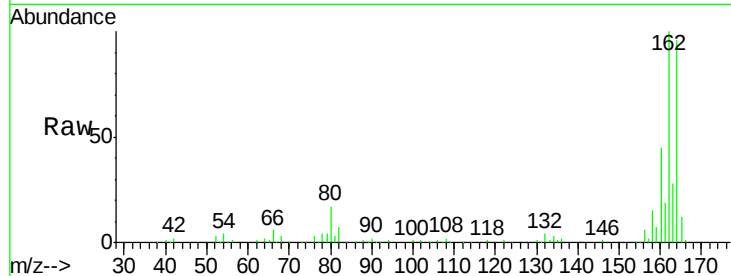




#50
2,6-Dinitrotoluene
Concen: 8.66 ng
RT: 9.84 min Scan# 722
Delta R.T. 0.22 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

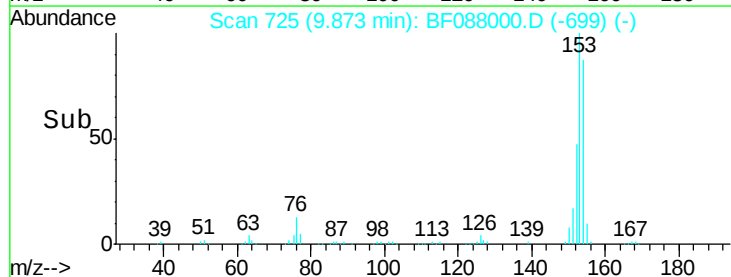
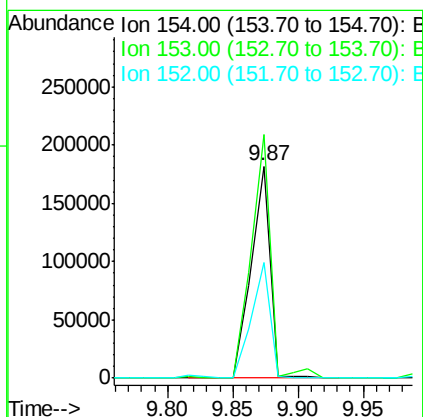
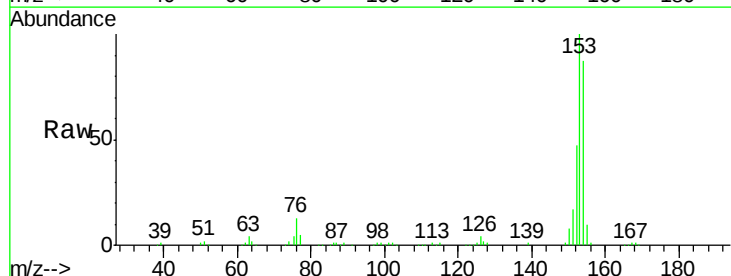
Instrument :
BNA_F
ClientSampleId :

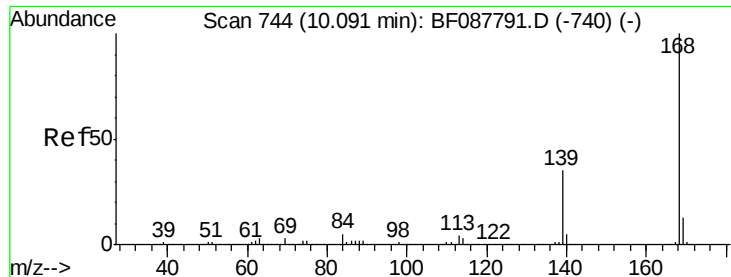
Tot Ion:165 Resp: 19887
Ion Ratio Lower Upper
165 100
63 0.0 28.1 42.1#
89 1.6 32.2 48.2#



#51
Acenaphthene
Concen: 20.53 ng
RT: 9.87 min Scan# 725
Delta R.T. -0.00 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

Tgt Ion:154 Resp: 182423
Ion Ratio Lower Upper
154 100
153 114.8 89.5 134.3
152 54.3 42.7 64.1





#54

Dibenzenofuran

Concen: 14.05 ng

RT: 10.04 min Scan# 740

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA_F

ClientSampleId :

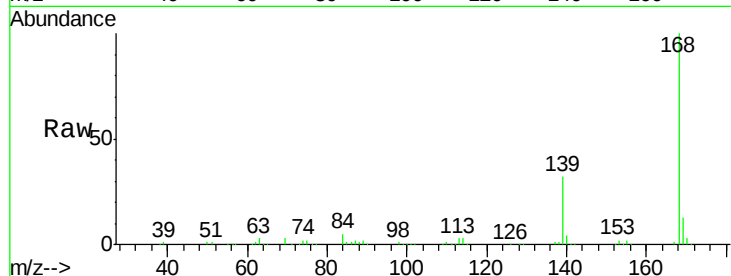
Tot Ion:168 Resp: 171936

Ion Ratio Lower Upper

168 100

139 32.1 26.4 39.6

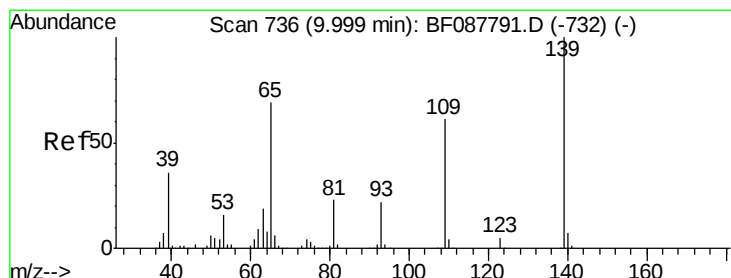
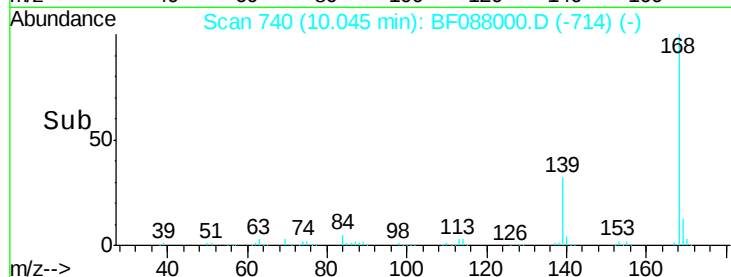
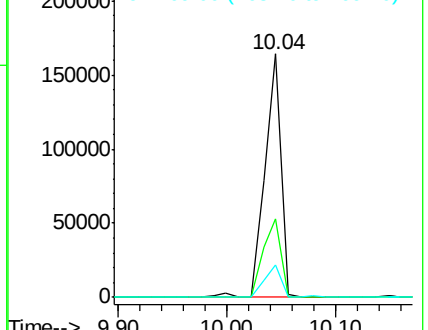
169 13.3 10.4 15.6



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: 29.19 ng

RT: 10.04 min Scan# 740

Delta R.T. 0.09 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

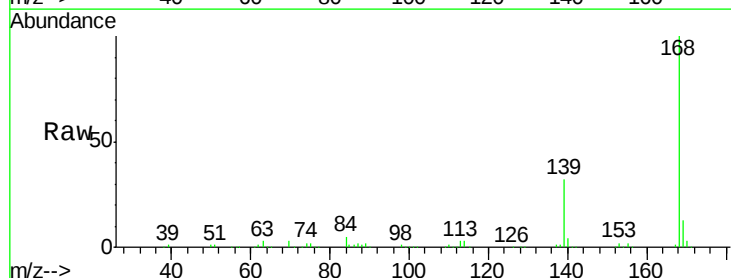
Tgt Ion:139 Resp: 60014

Ion Ratio Lower Upper

139 100

109 0.7 48.9 88.9#

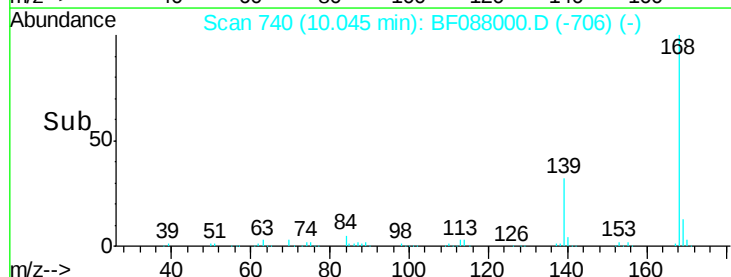
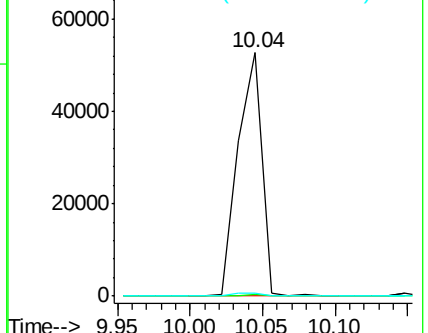
65 1.2 84.9 124.9#

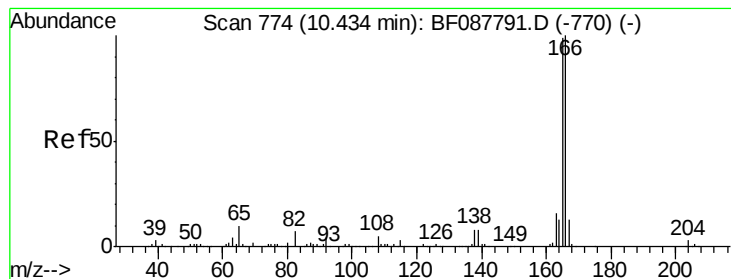


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#57

Fluorene

Concen: 16.11 ng

RT: 10.39 min Scan# 770

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA_F

ClientSampleId :

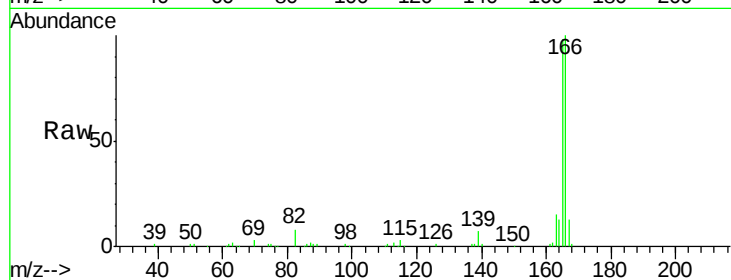
Tot Ion:166 Resp: 158848

Ion Ratio Lower Upper

166 100

165 98.2 77.8 116.8

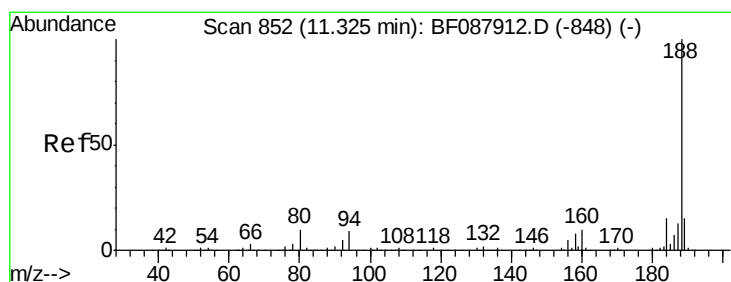
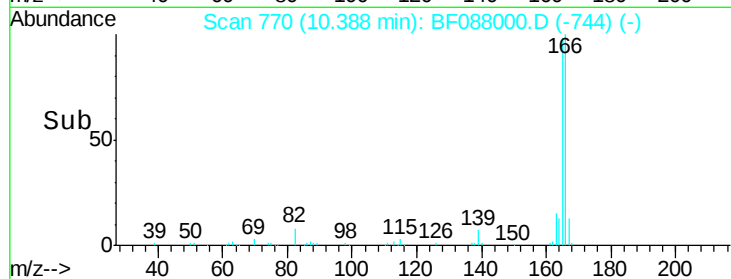
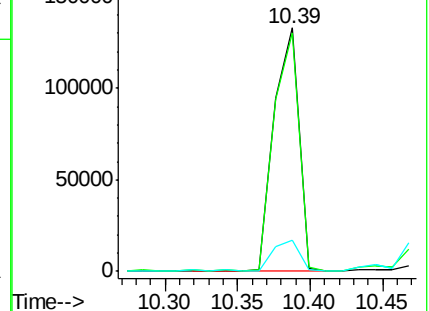
167 12.6 11.2 16.8



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: 11.31 min Scan# 851

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

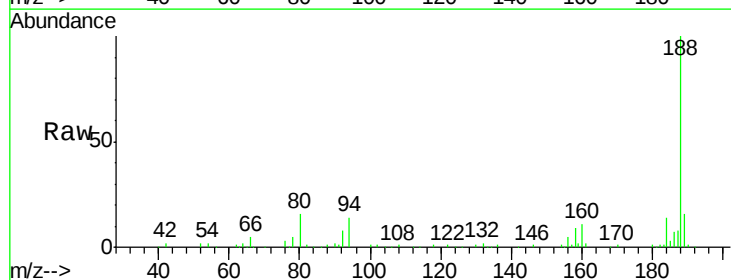
Tgt Ion:188 Resp: 205957

Ion Ratio Lower Upper

188 100

94 13.9 9.0 13.6#

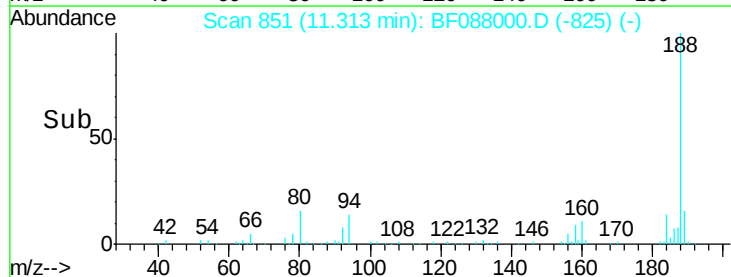
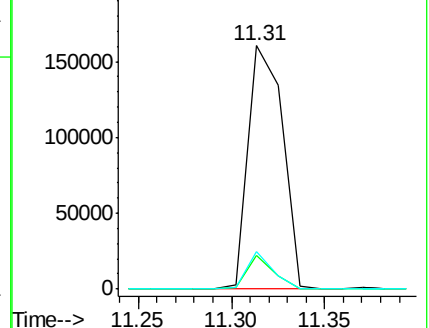
80 15.5 10.0 15.0#

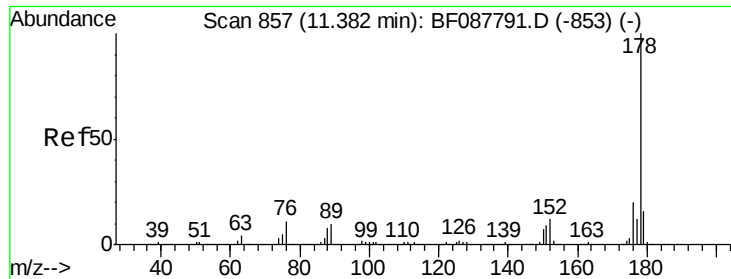


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 53.26 ng

RT: 11.35 min Scan# 854

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA_F

ClientSampleId :

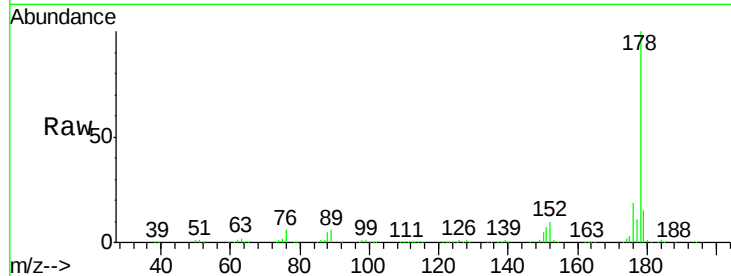
Tot Ion:178 Resp: 575643

Ion Ratio Lower Upper

178 100

176 19.1 15.8 23.6

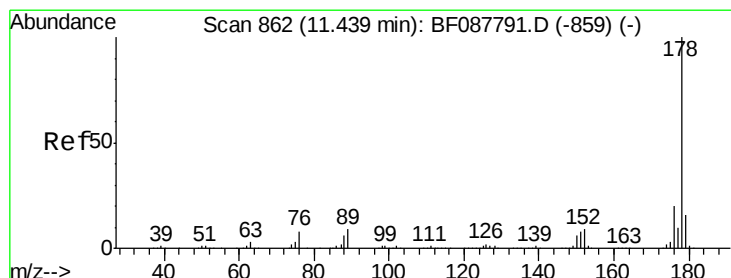
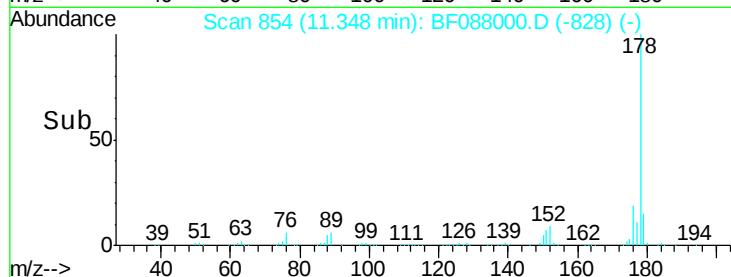
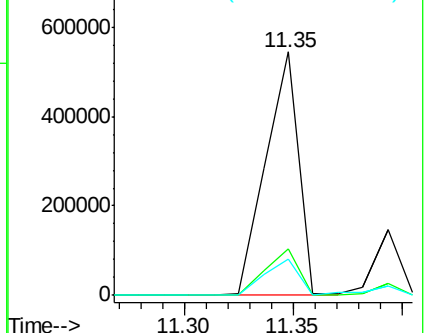
179 15.1 13.0 19.4



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: 11.07 ng

RT: 11.39 min Scan# 858

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

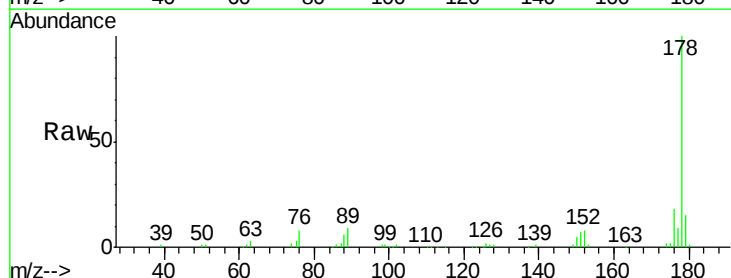
Tgt Ion:178 Resp: 120702

Ion Ratio Lower Upper

178 100

176 18.1 15.6 23.4

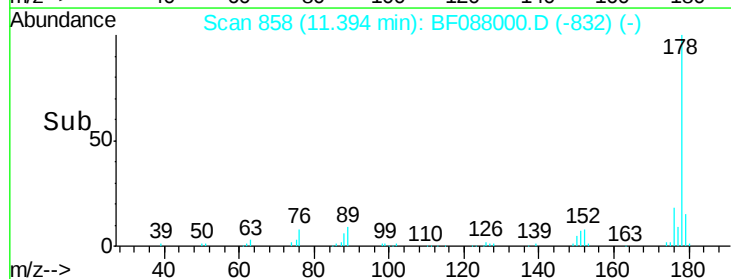
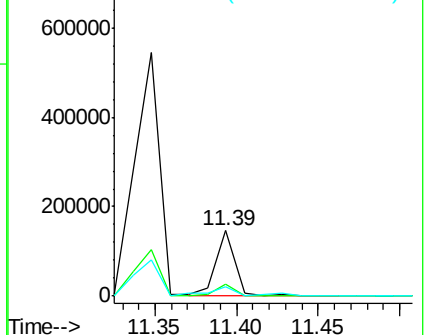
179 15.1 12.8 19.2

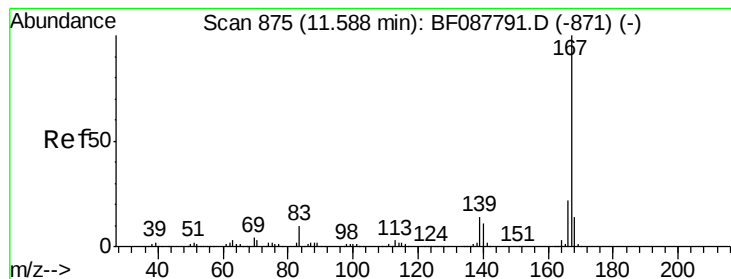


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.23 ng

RT: 11.55 min Scan# 872

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA_F

ClientSampleId :

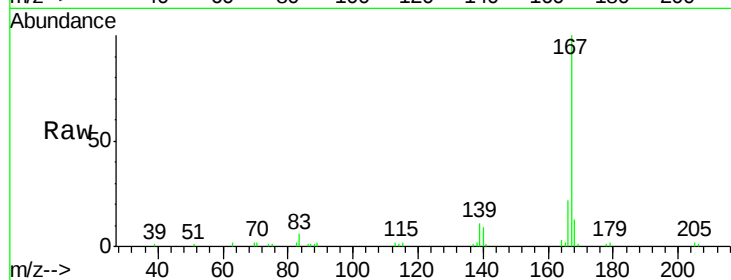
Tot Ion:167 Resp: 43163

Ion Ratio Lower Upper

167 100

166 22.3 17.8 26.6

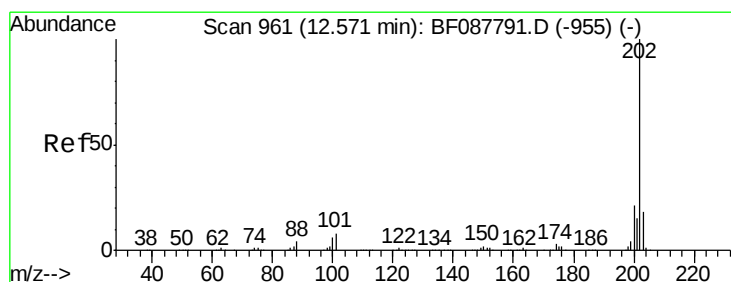
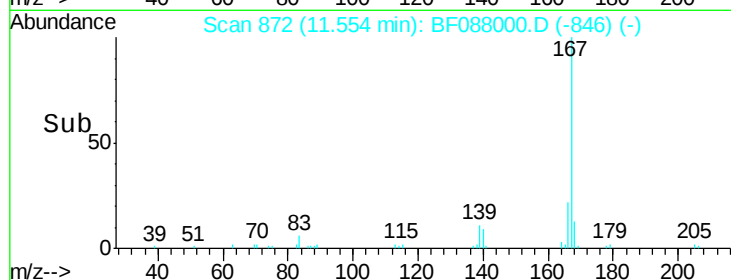
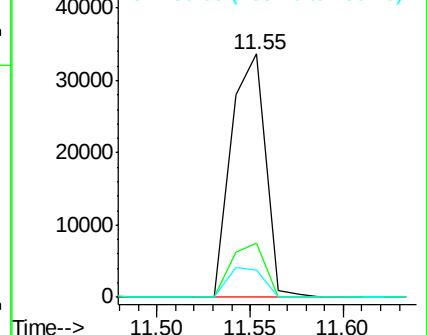
139 11.0 11.2 16.8#



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: 25.16 ng

RT: 12.53 min Scan# 957

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

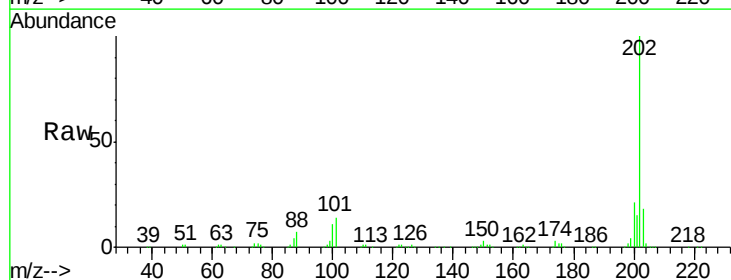
Tgt Ion:202 Resp: 286937

Ion Ratio Lower Upper

202 100

101 14.2 0.0 33.1

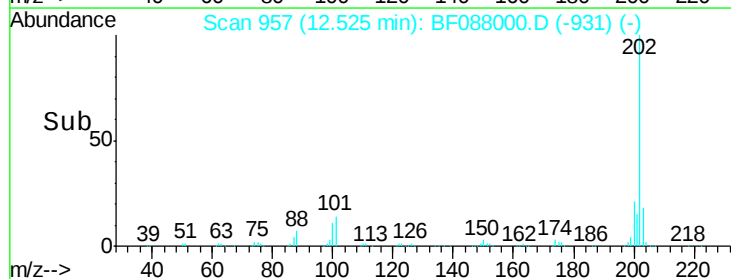
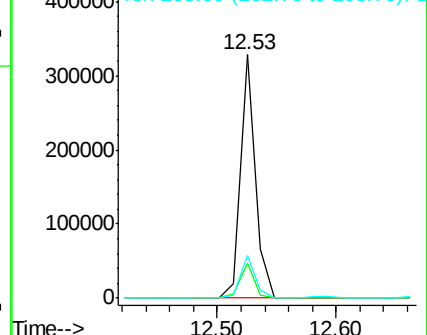
203 17.6 0.0 38.1

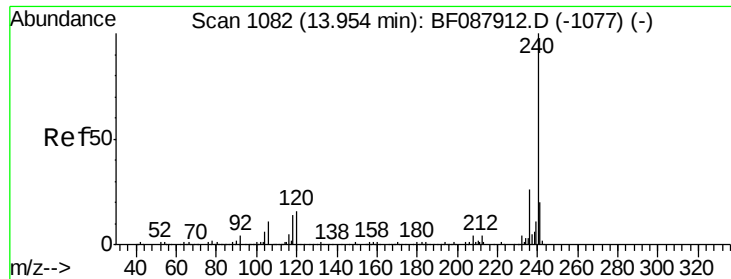


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.95 min Scan# 1082

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :

BNA_F

ClientSampleId :

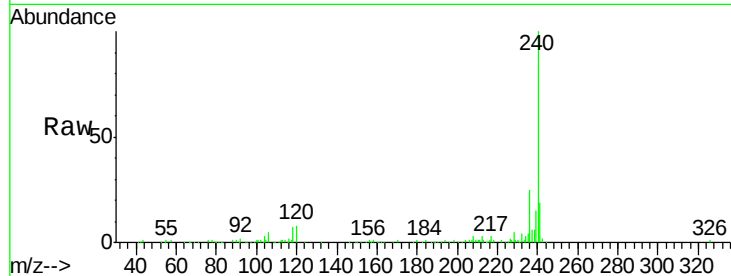
Tot Ion:240 Resp: 155506

Ion Ratio Lower Upper

240 100

120 8.0 6.8 10.2

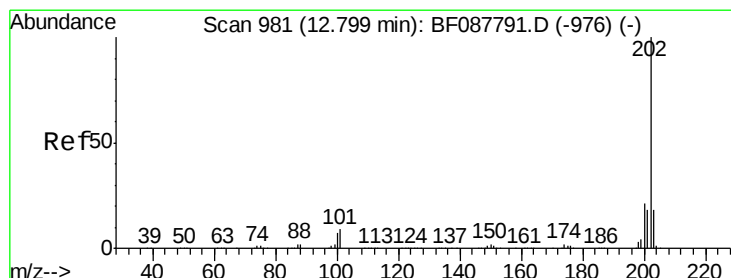
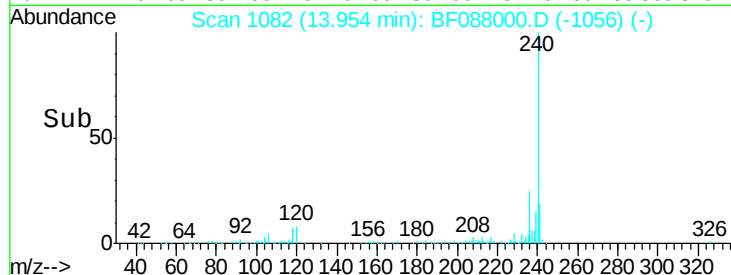
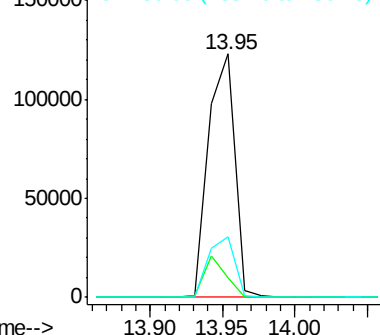
236 25.0 20.2 30.2



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: 18.23 ng

RT: 12.75 min Scan# 977

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

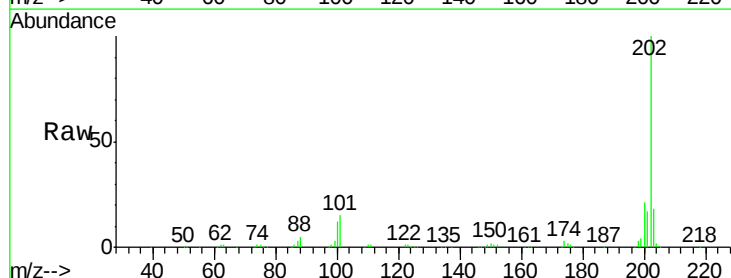
Tgt Ion:202 Resp: 210357

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

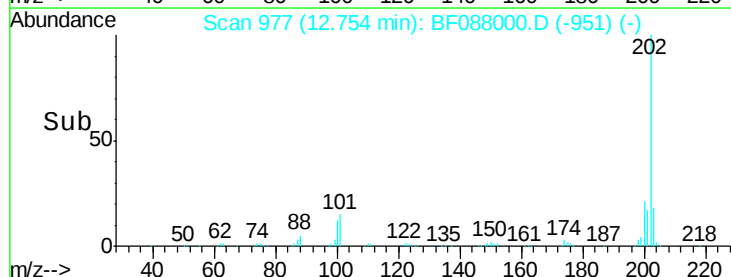
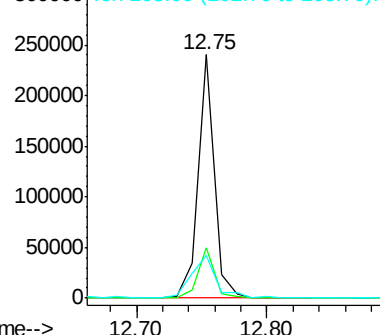
203 17.7 14.5 21.7

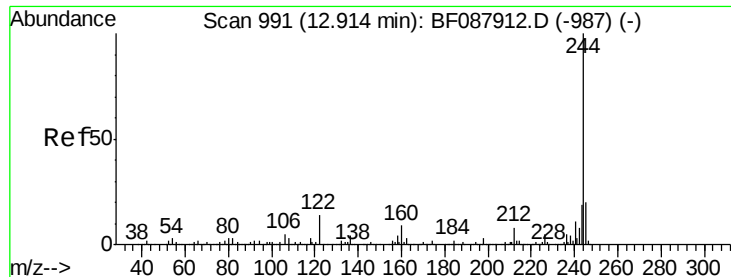


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 3.80 ng

RT: 12.90 min Scan# 990

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

Instrument :
BNA_F
ClientSampleId :

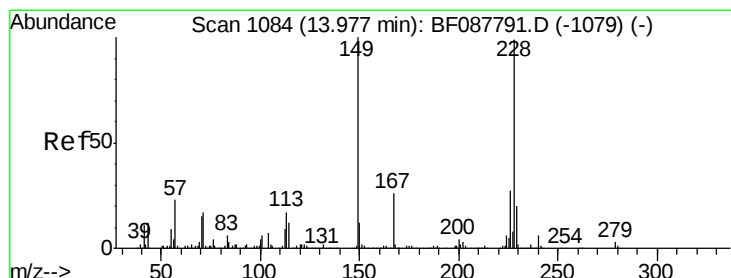
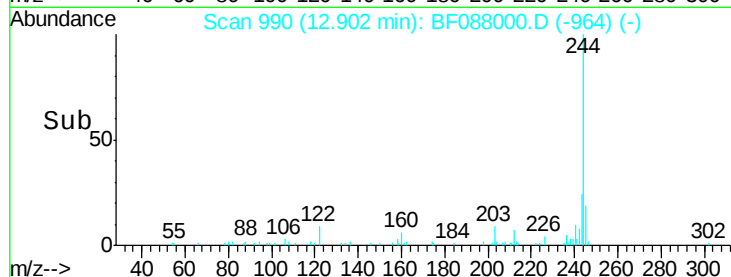
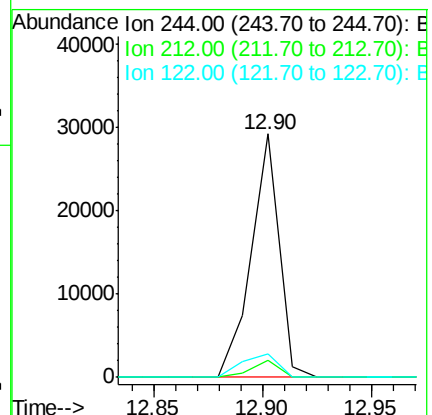
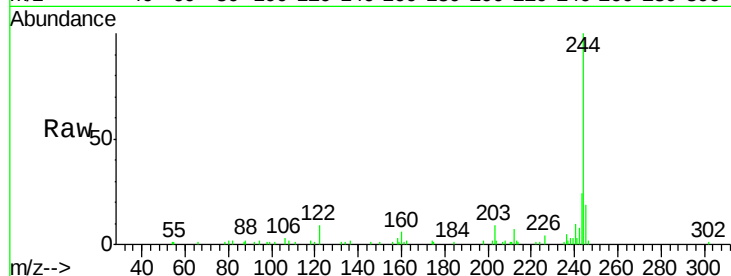
Tot Ion:244 Resp: 25968

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

122 9.5 11.2 16.8#



#80

Benzo(a)anthracene

Concen: 6.81 ng

RT: 13.94 min Scan# 1081

Delta R.T. -0.00 min

Lab File: BF088000.D

Acq: 14 Jun 2016 10:41

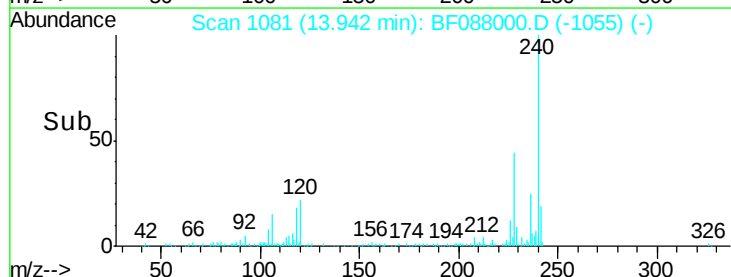
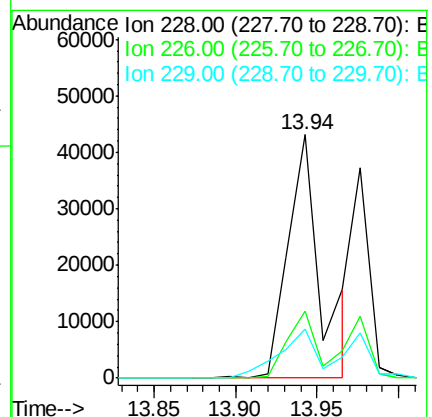
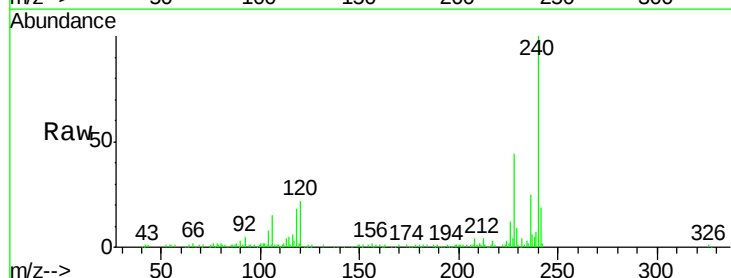
Tgt Ion:228 Resp: 60358

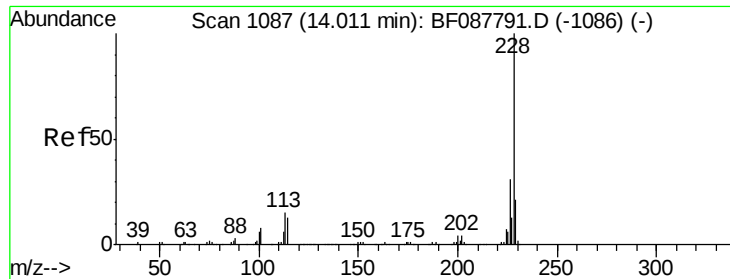
Ion Ratio Lower Upper

228 100

226 27.5 22.3 33.5

229 20.3 16.0 24.0

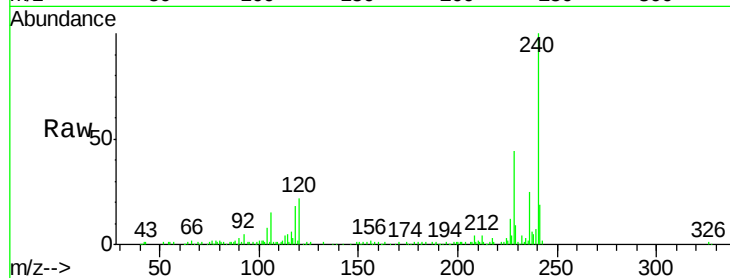




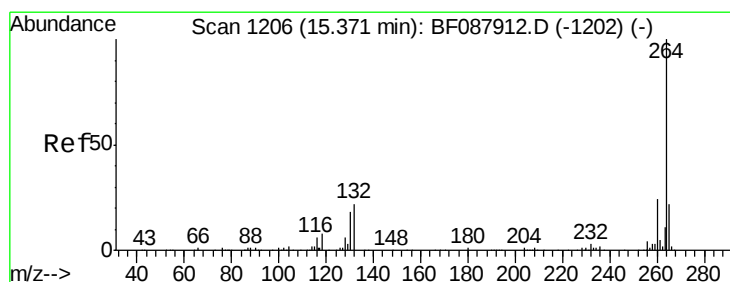
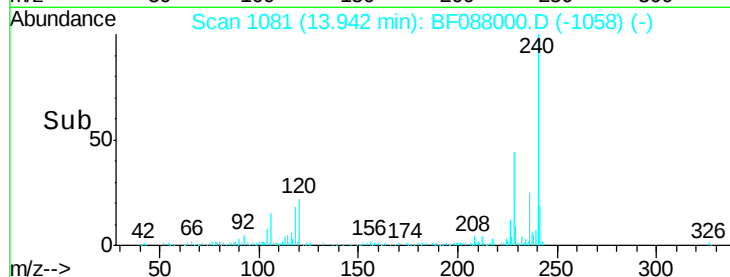
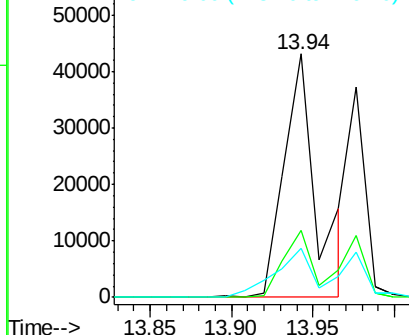
#82
Chrysene
Concen: 7.24 ng
RT: 13.94 min Scan# 1081
Delta R.T. -0.03 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

Instrument :
BNA_F
ClientSampled :

Tot Ion:228 Resp: 60358
Ion Ratio Lower Upper
228 100
226 27.5 25.4 38.2
229 20.3 16.3 24.5

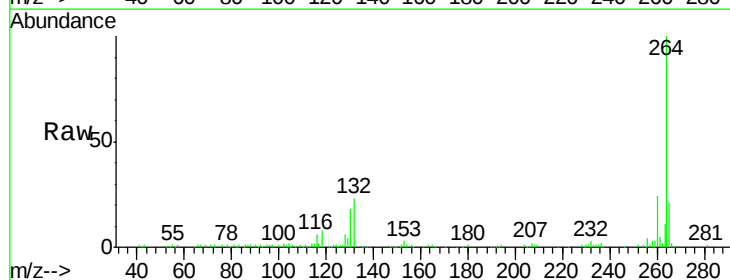


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

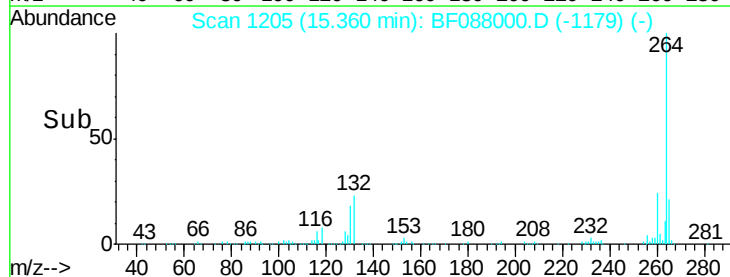
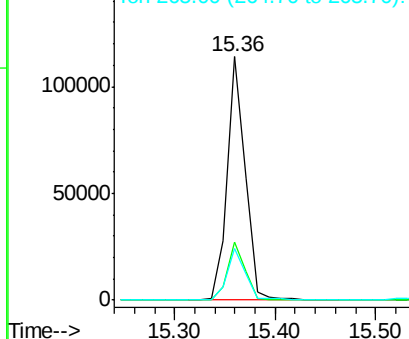


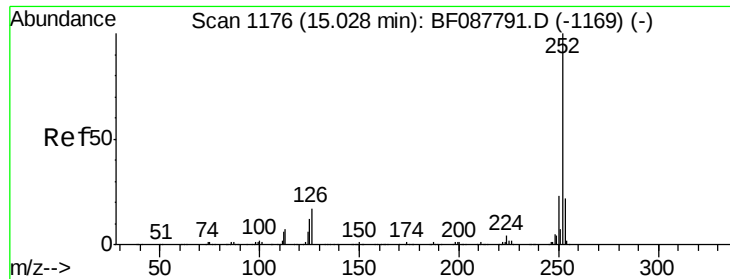
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.36 min Scan# 1205
Delta R.T. -0.00 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

Tgt Ion:264 Resp: 141659
Ion Ratio Lower Upper
264 100
260 23.6 19.2 28.8
265 21.0 16.9 25.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

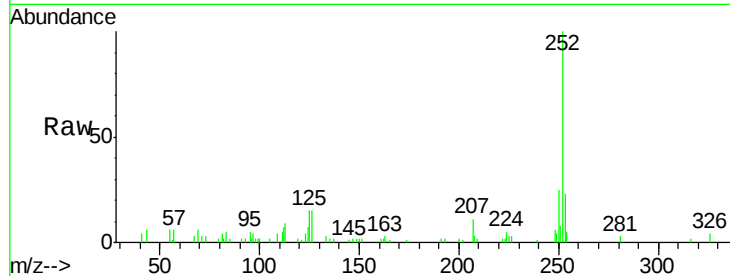




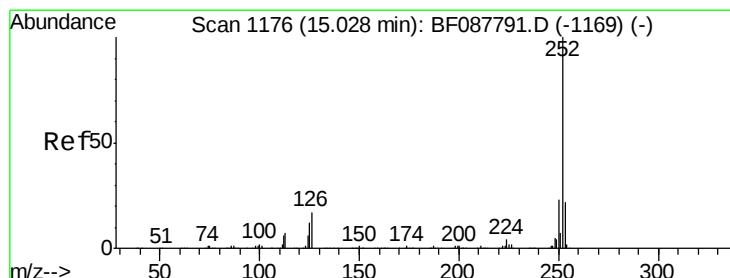
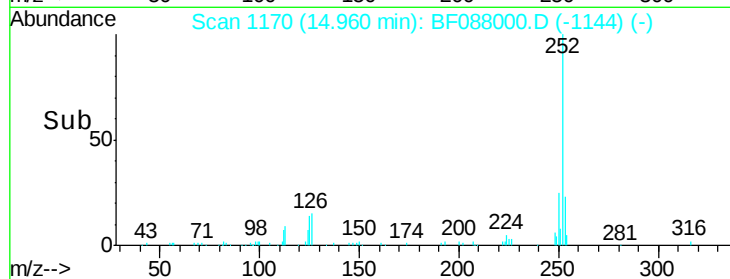
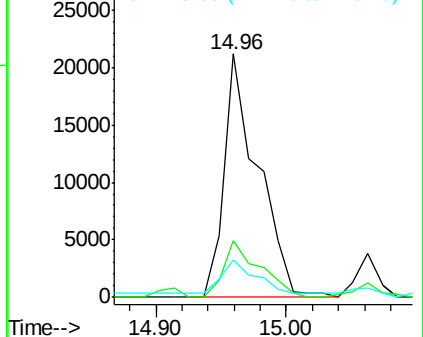
#87
Benzo(b)fluoranthene
Concen: 3.87 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 38178
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.2
125 15.4 7.1 10.7#

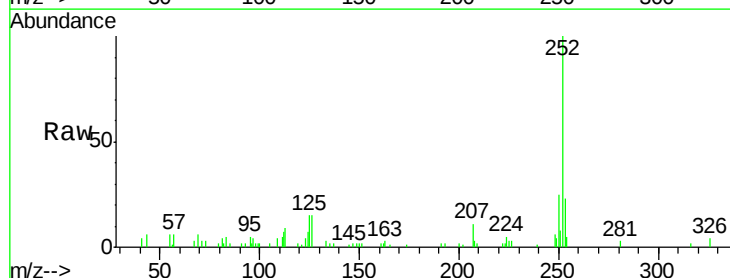


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

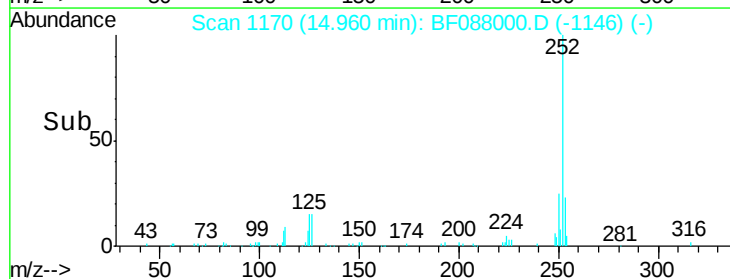
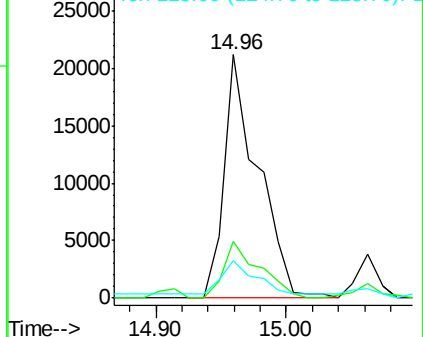


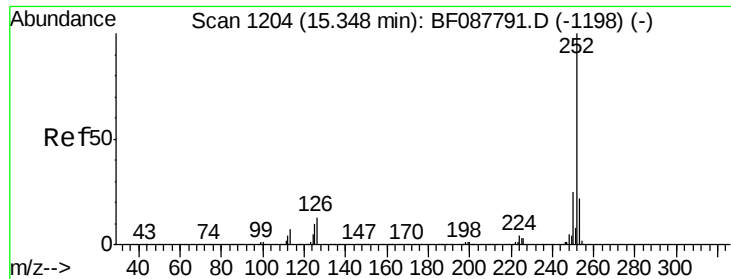
#88
Benzo(k)fluoranthene
Concen: 5.13 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.02 min
Lab File: BF088000.D
Acq: 14 Jun 2016 10:41

Tgt Ion:252 Resp: 38178
Ion Ratio Lower Upper
252 100
253 23.1 18.0 27.0
125 15.4 11.2 16.8



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

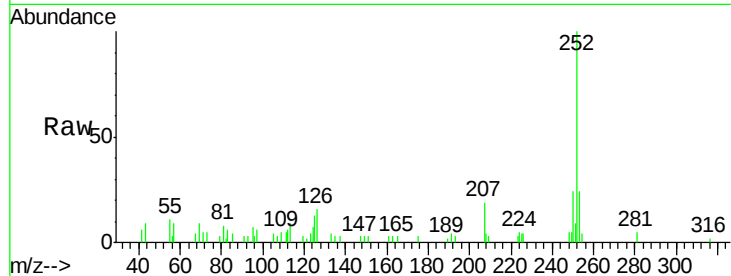




#89
 Benzo(a)pyrene
 Concen: 2.04 ng
 RT: 15.30 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: BF088000.D
 Acq: 14 Jun 2016 10:41

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	13.1	12.5	18.7



Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 253.00 (252.70 to 253.70): E
 Ion 125.00 (124.70 to 125.70): E

