

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050716\
 Data File : BF086813.D
 Acq On : 8 May 2016 10:05
 Operator : UM/SJ
 Sample : H2662-08DL 20X
 Misc :
 ALS Vial : 81 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B4COMPDL

Quant Time: May 09 00:58:20 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 04 15:12:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	181780	40.00	ng	-0.03
21) Naphthalene-d8	8.00	136	707659	40.00	ng	-0.03
38) Acenaphthene-d10	9.73	164	292531	40.00	ng	-0.05
63) Phenanthrene-d10	11.22	188	488256	40.00	ng	-0.03
75) Chrysene-d12	13.85	240	352889	40.00	ng	-0.03
86) Perylene-d12	15.22	264	310917	40.00	ng	-0.05

System Monitoring Compounds

5) 2-Fluorophenol	5.31	112	74426	6.78	ng	-0.01
7) Phenol-d6	6.36	99	108243	7.32	ng	-0.01
23) Nitrobenzene-d5	7.28	82	60202	4.37	ng	-0.03
41) 2,4,6-Tribromophenol	10.53	330	17197	6.01	ng	-0.03
44) 2-Fluorobiphenyl	9.07	172	105577	5.92	ng	-0.03
78) Terphenyl-d14	12.80	244	72161	4.13	ng	-0.05

Target Compounds

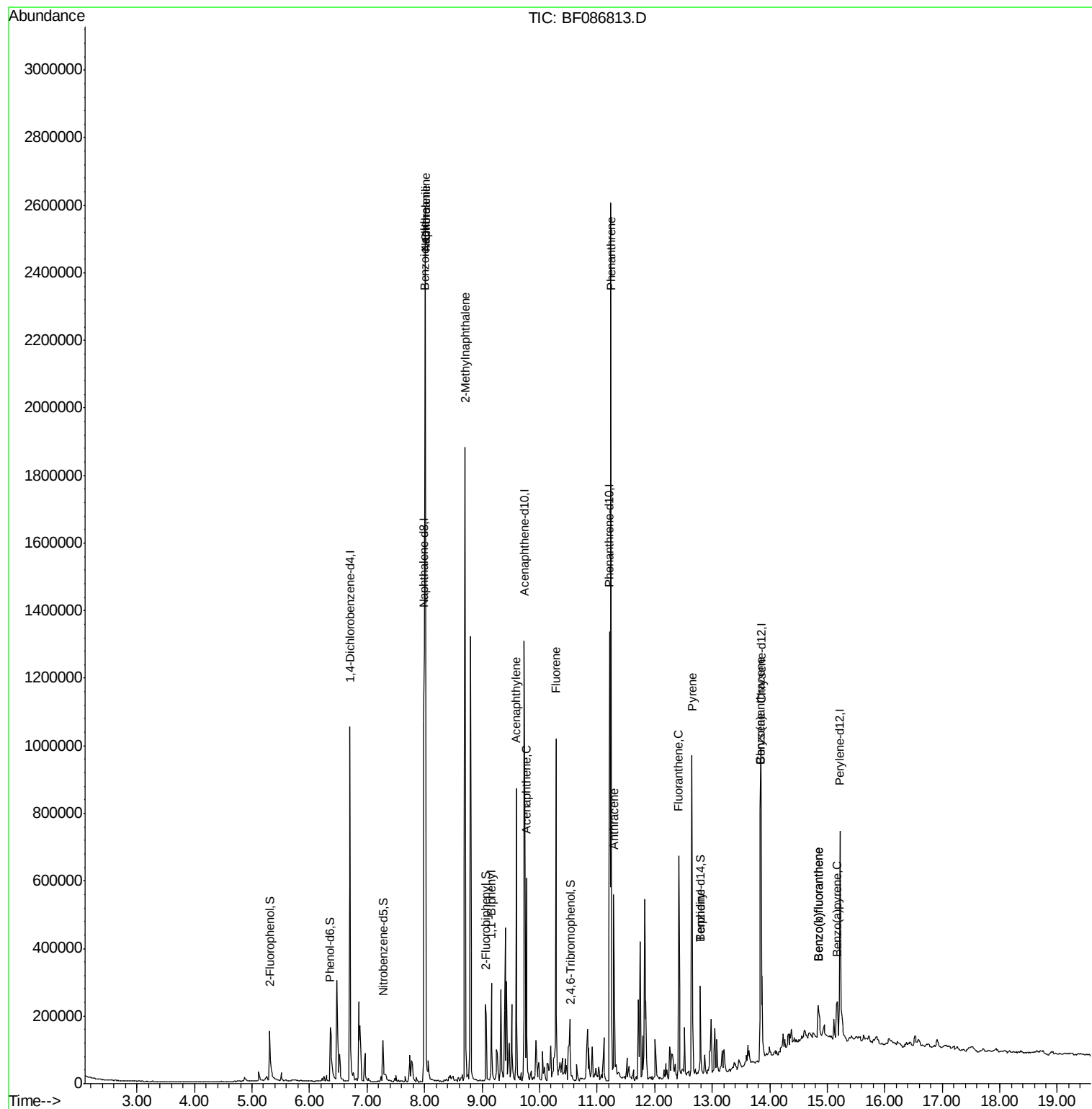
						Qvalue
31) Naphthalene	8.02	128	1656215	45.81	ng	100
32) Benzoic acid	8.01	122	3707	9.12	ng	# 1
33) 4-Chloroaniline	8.02	127	221158	15.79	ng	# 35
37) 2-Methylnaphthalene	8.70	142	525377	24.63	ng	99
45) 1,1'-Biphenyl	9.16	154	100529	4.20	ng	95
48) Acenaphthylene	9.60	152	284878	10.40	ng	97
51) Acenaphthene	9.77	154	117511	6.50	ng	97
57) Fluorene	10.28	166	281740	15.52	ng	99
70) Phenanthrene	11.24	178	900193	34.32	ng	99
71) Anthracene	11.29	178	269511	9.81	ng	99
74) Fluoranthene	12.42	202	272939	10.38	ng	99
76) Benzidine	12.80	184	804	7.16	ng	# 61
77) Pyrene	12.65	202	355522	12.64	ng	99
80) Benzo(a)anthracene	13.84	228	125626	6.29	ng	# 83
82) Chrysene	13.84	228	125626	5.90	ng	# 86
87) Benzo(b)fluoranthene	14.84	252	75287	4.03	ng	97
88) Benzo(k)fluoranthene	14.84	252	75287	4.28	ng	# 95
89) Benzo(a)pyrene	15.17	252	62188	3.61	ng	98

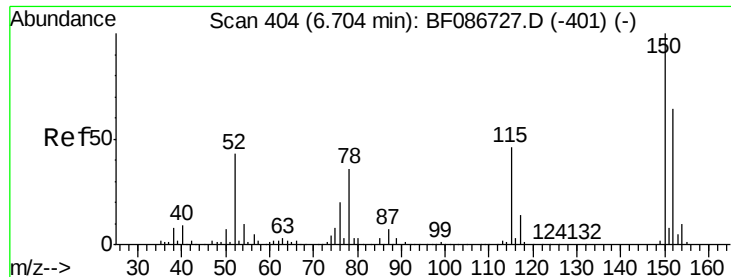
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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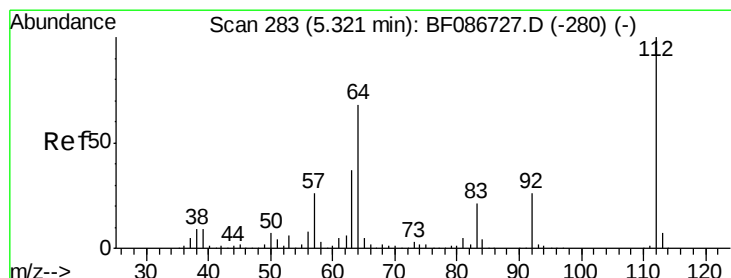
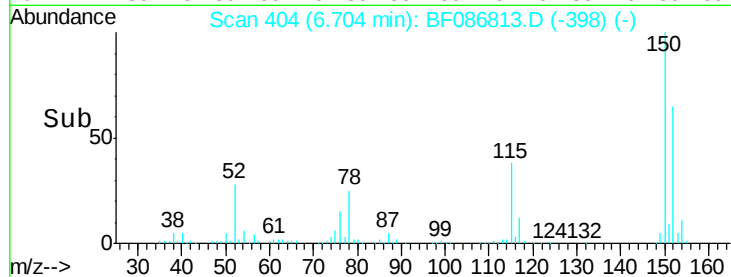
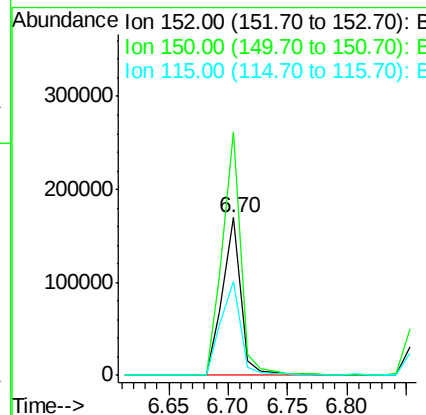
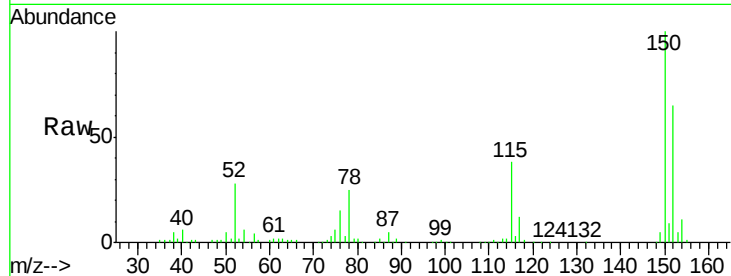


#1

1,4-Dichlorobenzene-d4
Concen: 40.00 ng
RT: 6.70 min Scan# 404
Delta R.T. -0.03 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Instrument :
BNA_F
ClientSampleId :
TEC-B4COMPDL

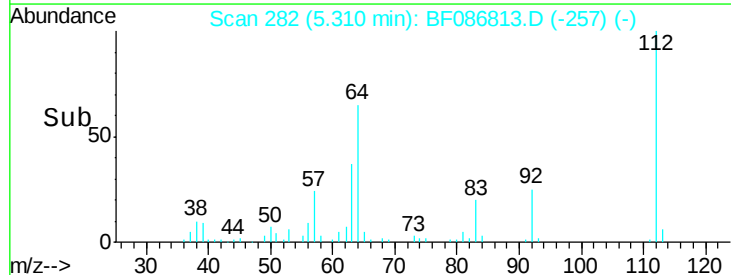
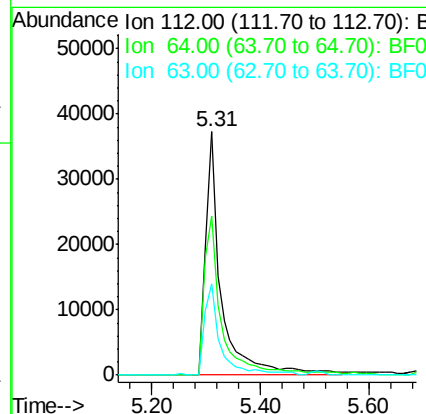
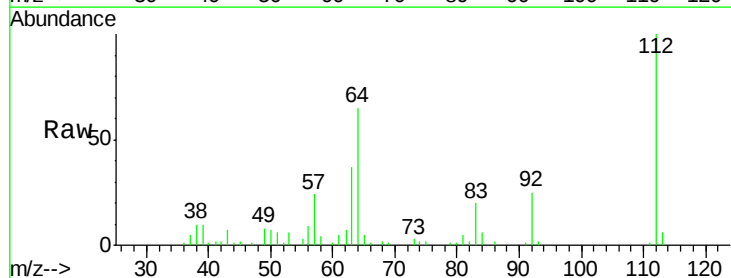
Tgt Ion:152 Resp: 181780
Ion Ratio Lower Upper
152 100
150 154.5 125.8 188.6
115 59.3 51.5 77.3

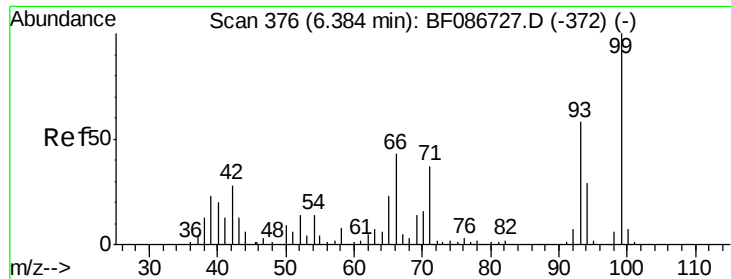


#5

2-Fluorophenol
Concen: 6.78 ng
RT: 5.31 min Scan# 282
Delta R.T. -0.01 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Tgt Ion:112 Resp: 74426
Ion Ratio Lower Upper
112 100
64 65.3 52.1 78.1
63 37.4 25.7 38.5





#7

Phenol-d6

Concen: 7.32 ng

RT: 6.36 min Scan# 374

Delta R.T. -0.01 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

Instrument :

BNA_F

ClientSampleId :

TEC-B4COMPDL

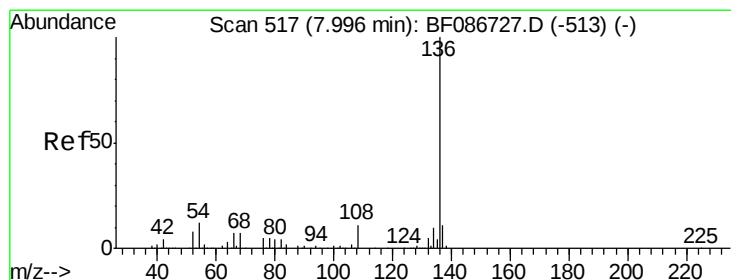
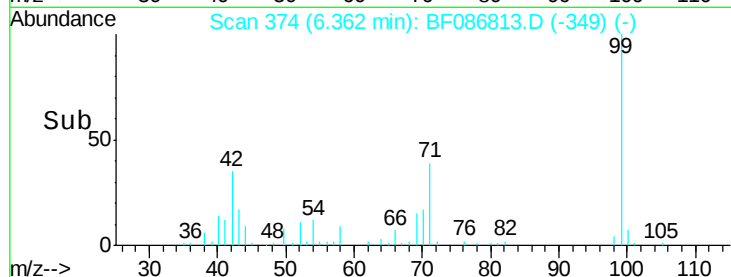
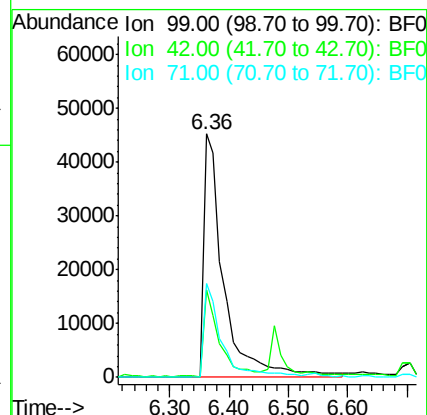
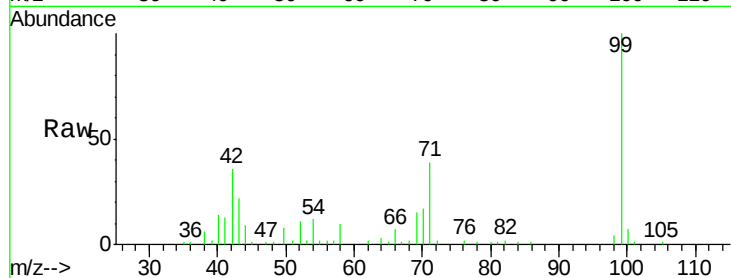
Tgt Ion: 99 Resp: 108243

Ion Ratio Lower Upper

99 100

42 36.0 13.6 20.4#

71 38.8 24.6 36.8#



#21

Naphthalene-d8

Concen: 40.00 ng

RT: 8.00 min Scan# 517

Delta R.T. -0.03 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

Tgt Ion: 136 Resp: 707659

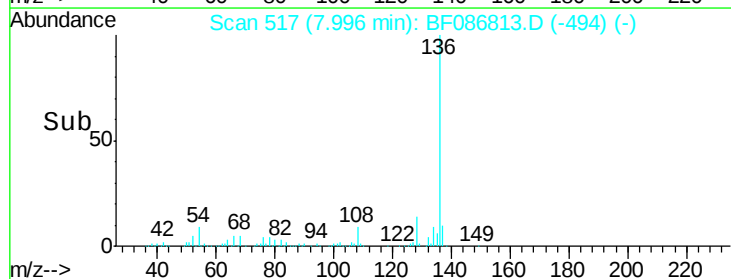
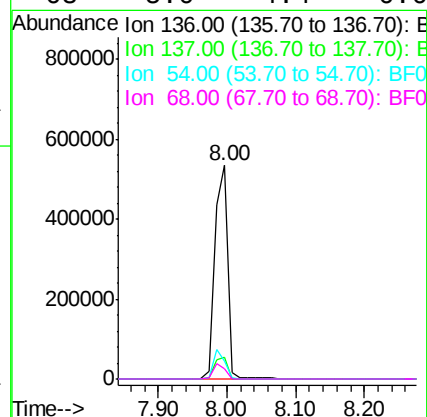
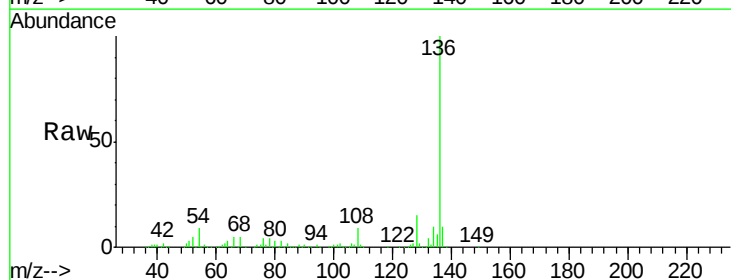
Ion Ratio Lower Upper

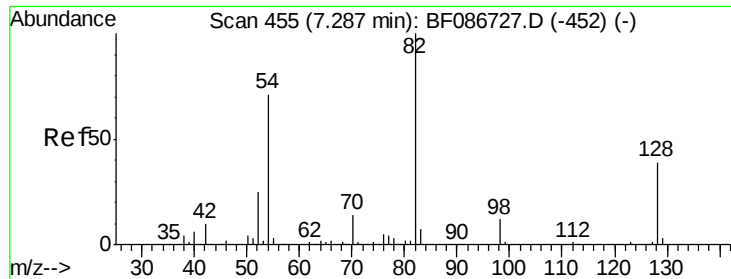
136 100

137 10.4 8.8 13.2

54 8.5 5.0 7.4#

68 5.0 4.4 6.6

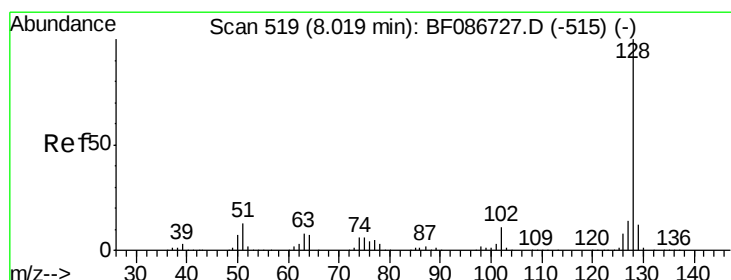
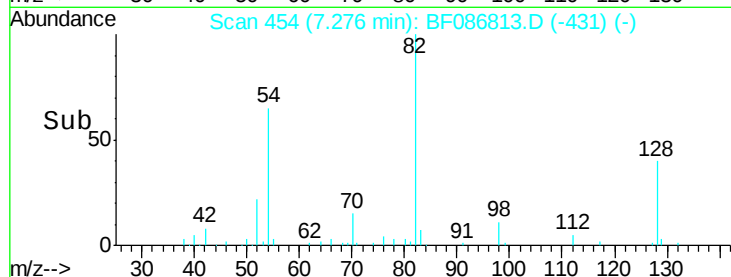
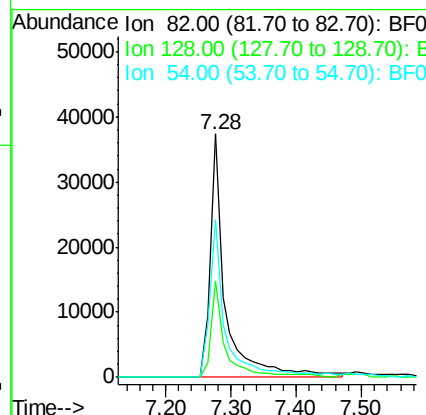
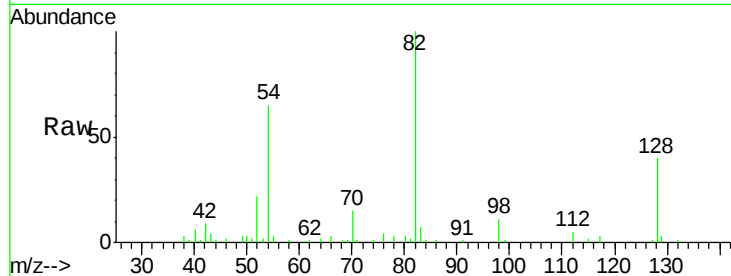




#23
 Nitrobenzene-d5
 Concen: 4.37 ng
 RT: 7.28 min Scan# 454
 Delta R.T. -0.03 min
 Lab File: BF086813.D
 Acq: 8 May 2016 10:05

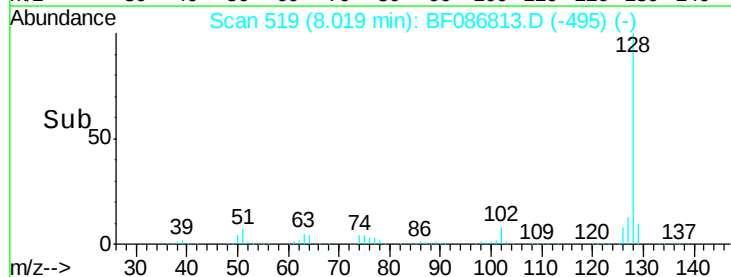
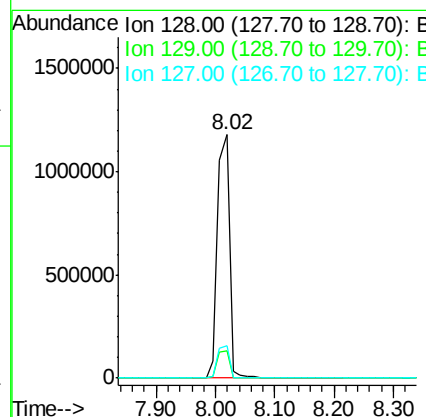
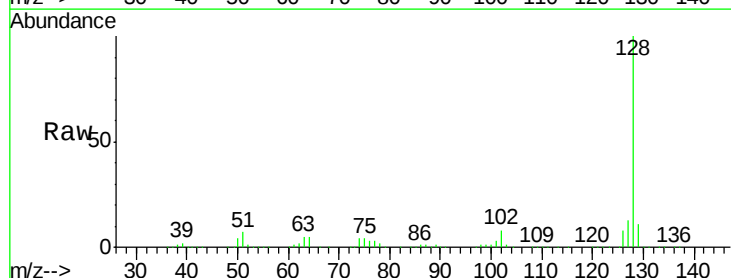
Instrument :
 BNA_F
 ClientSampleId :
 TEC-B4COMPDL

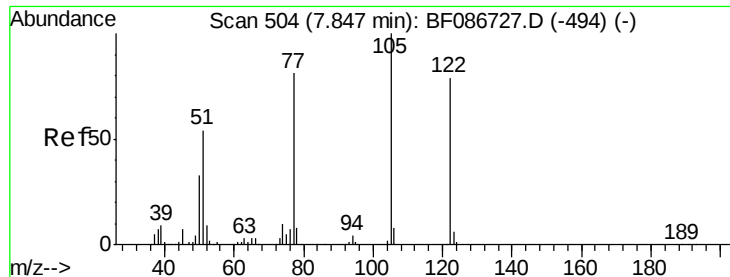
Tgt Ion: 82 Resp: 60202
 Ion Ratio Lower Upper
 82 100
 128 39.7 40.6 61.0#
 54 64.6 38.1 57.1#



#31
 Naphthalene
 Concen: 45.81 ng
 RT: 8.02 min Scan# 519
 Delta R.T. -0.02 min
 Lab File: BF086813.D
 Acq: 8 May 2016 10:05

Tgt Ion: 128 Resp: 1656215
 Ion Ratio Lower Upper
 128 100
 129 11.0 8.6 13.0
 127 13.4 10.8 16.2

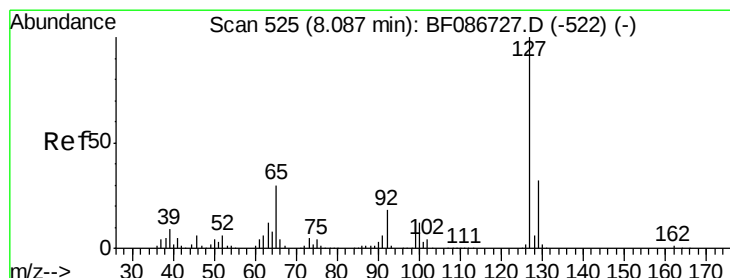
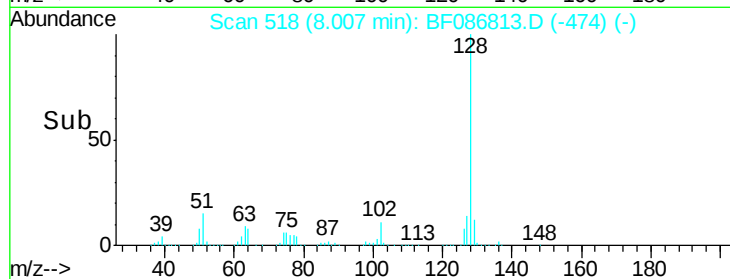
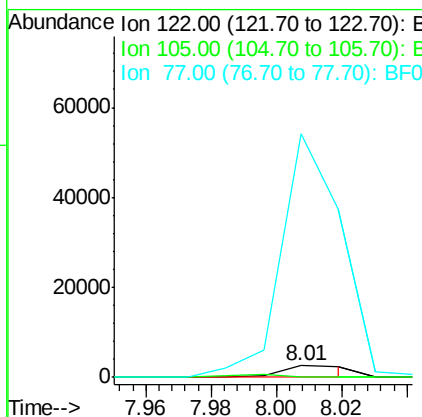
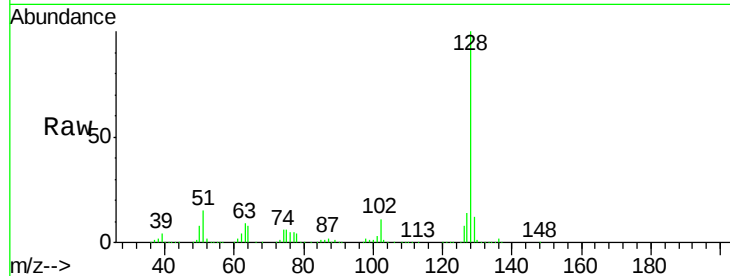




#32
Benzoic acid
Concen: 9.12 ng
RT: 8.01 min Scan# 518
Delta R.T. 0.21 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

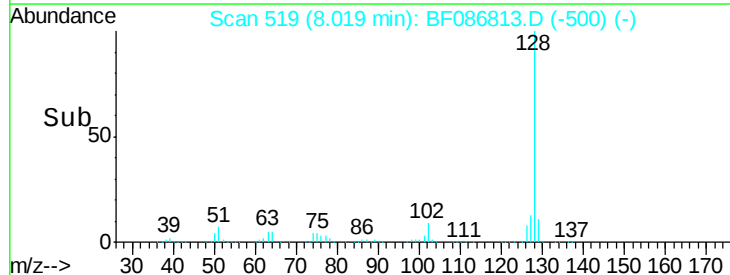
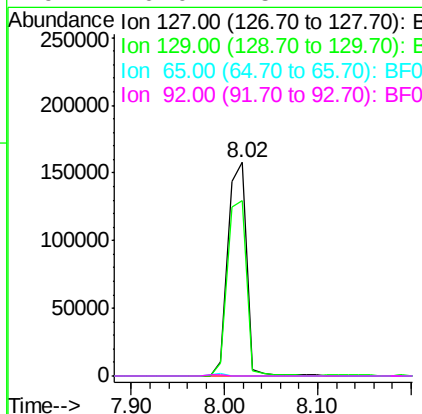
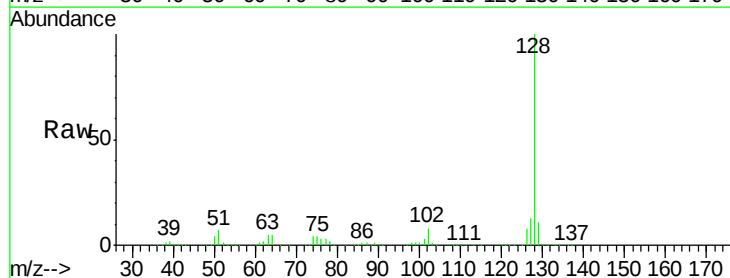
Instrument :
BNA_F
ClientSampleId :
TEC-B4COMPDL

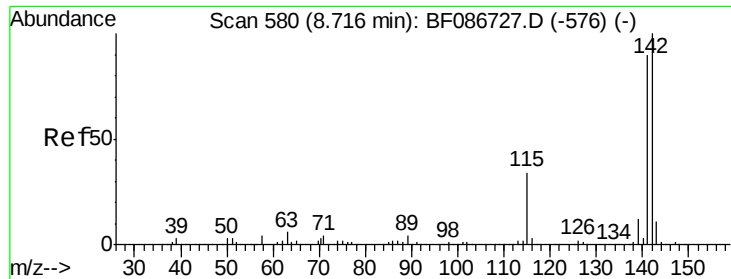
Tgt Ion:122 Resp: 3707
Ion Ratio Lower Upper
122 100
105 0.0 92.6 132.6#
77 2136.4 60.0 100.0#



#33
4-Chloroaniline
Concen: 15.79 ng
RT: 8.02 min Scan# 519
Delta R.T. -0.08 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Tgt Ion:127 Resp: 221158
Ion Ratio Lower Upper
127 100
129 82.4 26.2 39.4#
65 0.0 23.0 34.4#
92 0.0 15.1 22.7#

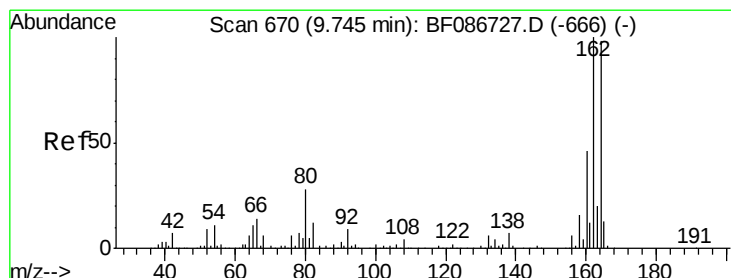
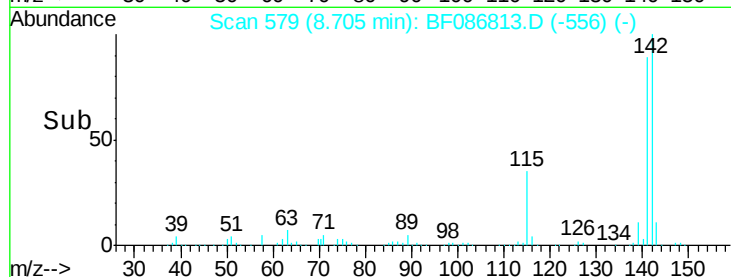
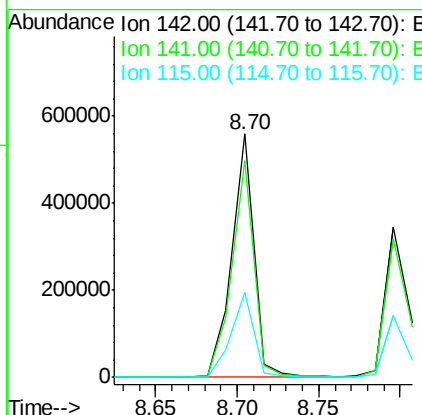
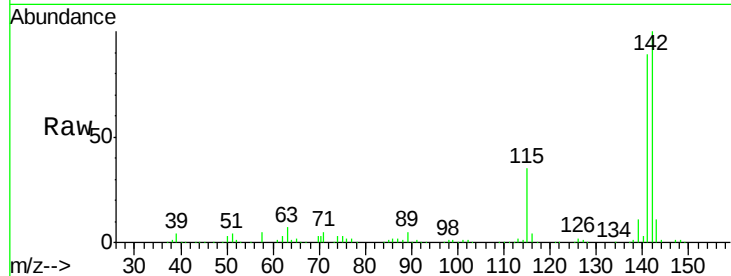




#37
2-Methylnaphthalene
Concen: 24.63 ng
RT: 8.70 min Scan# 579
Delta R.T. -0.03 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

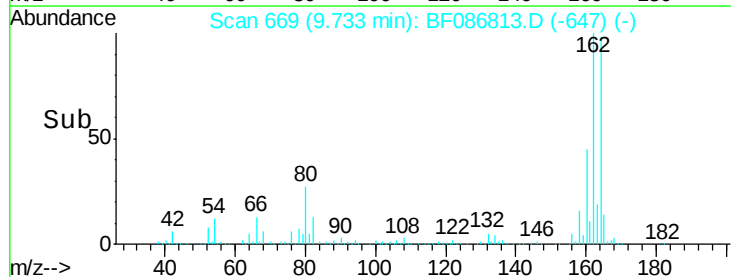
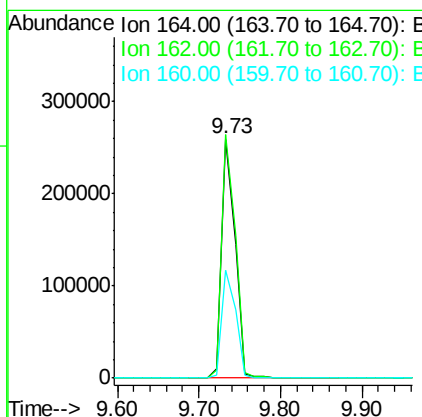
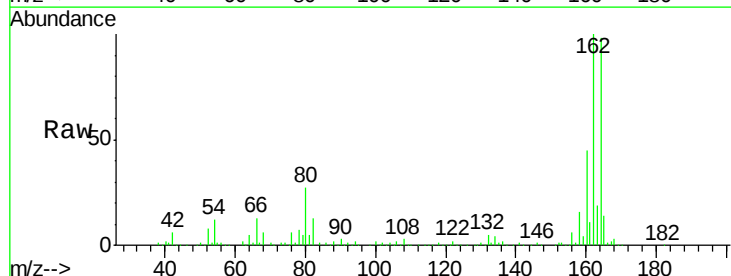
Instrument :
BNA_F
ClientSampleId :
TEC-B4COMPDL

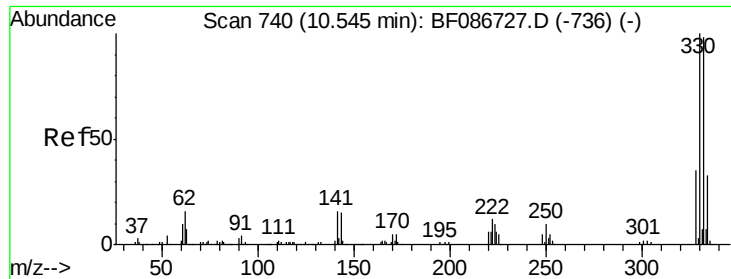
Tgt Ion:142 Resp: 525377
Ion Ratio Lower Upper
142 100
141 89.3 71.0 106.6
115 34.6 26.6 39.8



#38
Acenaphthene-d10
Concen: 40.00 ng
RT: 9.73 min Scan# 669
Delta R.T. -0.05 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Tgt Ion:164 Resp: 292531
Ion Ratio Lower Upper
164 100
162 101.9 82.8 124.2
160 45.4 36.9 55.3

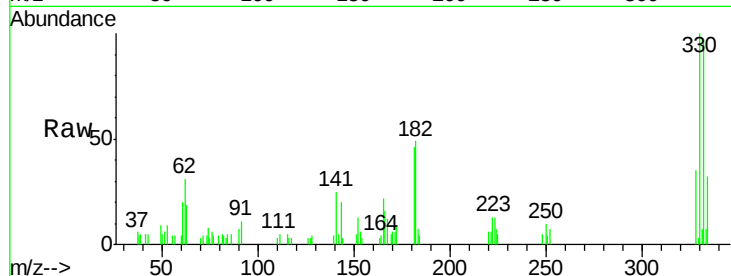




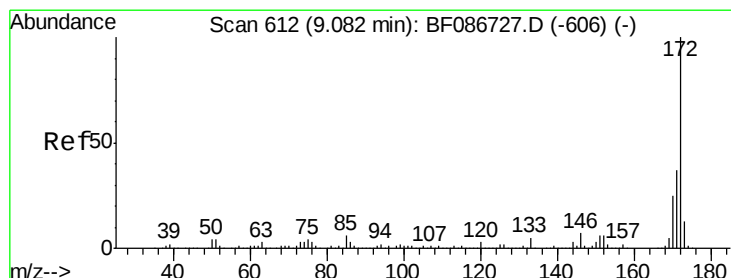
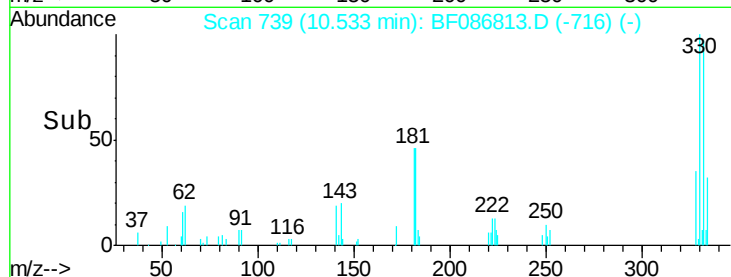
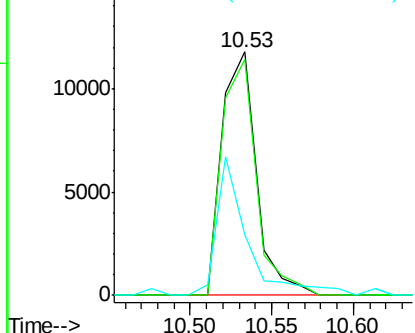
#41
 2,4,6-Tribromophenol
 Concen: 6.01 ng
 RT: 10.53 min Scan# 739
 Delta R.T. -0.03 min
 Lab File: BF086813.D
 Acq: 8 May 2016 10:05

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B4COMPDL

Tgt Ion: 330 Resp: 17197
 Ion Ratio Lower Upper
 330 100
 332 97.2 79.0 118.4
 141 51.7 31.2 46.8#

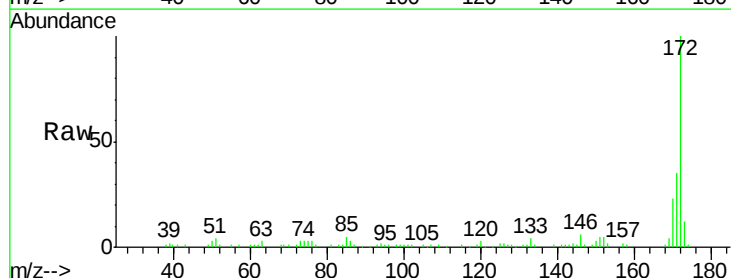


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

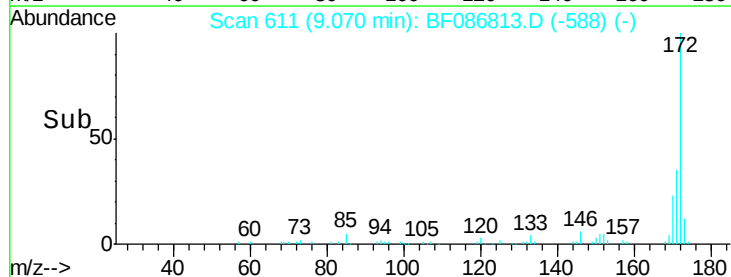
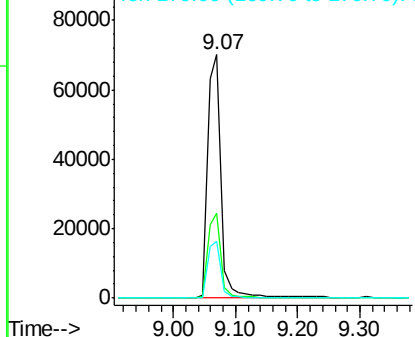


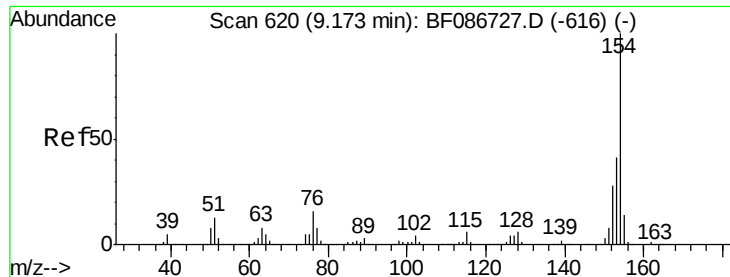
#44
 2-Fluorobiphenyl
 Concen: 5.92 ng
 RT: 9.07 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: BF086813.D
 Acq: 8 May 2016 10:05

Tgt Ion: 172 Resp: 105577
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.0 43.6
 170 23.1 19.8 29.8



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

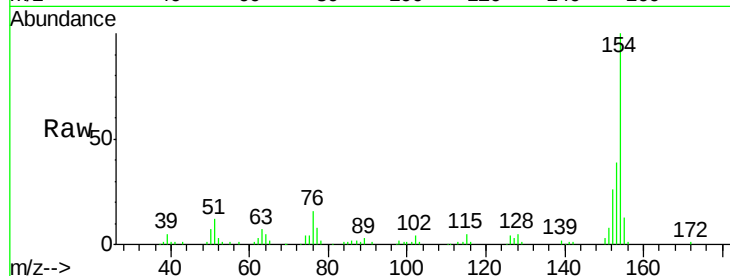




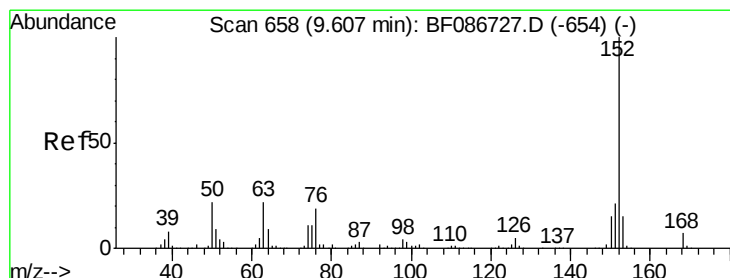
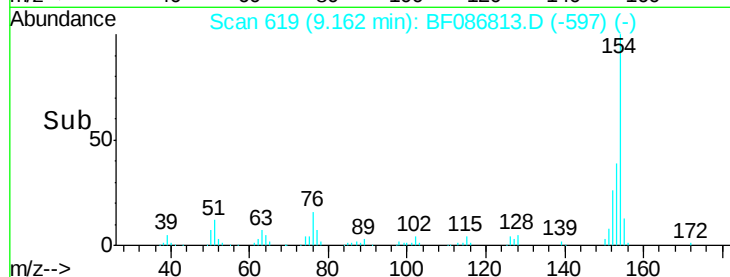
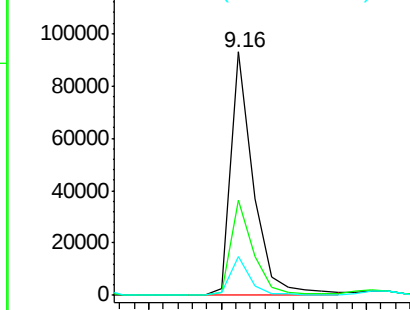
#45
1,1'-Biphenyl
Concen: 4.20 ng
RT: 9.16 min Scan# 619
Delta R.T. -0.05 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Instrument :
BNA_F
ClientSampleId :
TEC-B4COMPDL

Tgt Ion:154 Resp: 100529
Ion Ratio Lower Upper
154 100
153 38.9 20.3 60.3
76 16.1 0.0 30.2

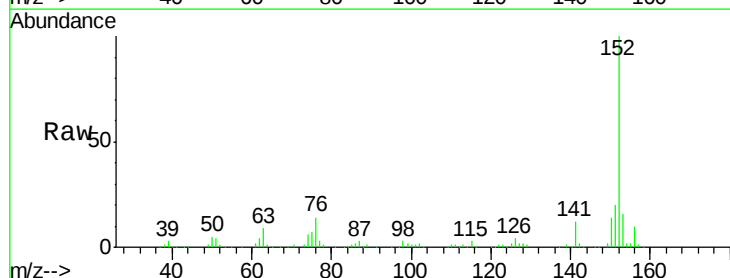


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

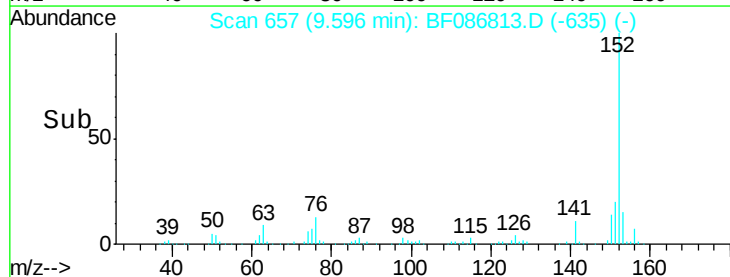
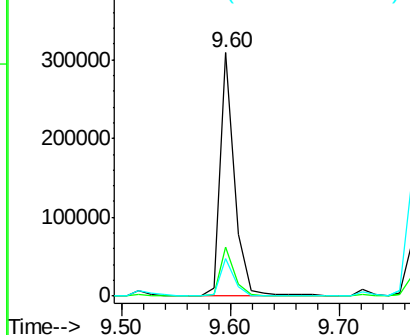


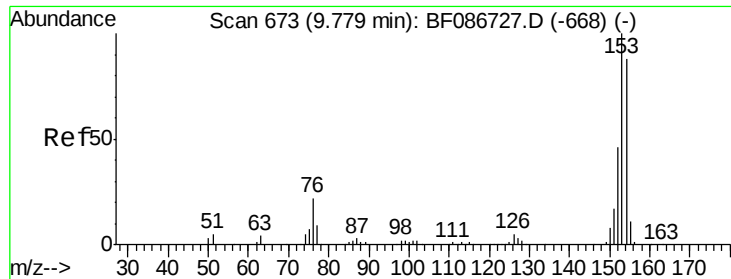
#48
Acenaphthylene
Concen: 10.40 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.05 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Tgt Ion:152 Resp: 284878
Ion Ratio Lower Upper
152 100
151 20.1 16.8 25.2
153 15.5 10.9 16.3



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





#51

Acenaphthene

Concen: 6.50 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.05 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

Instrument :

BNA_F

ClientSampleId :

TEC-B4COMPDL

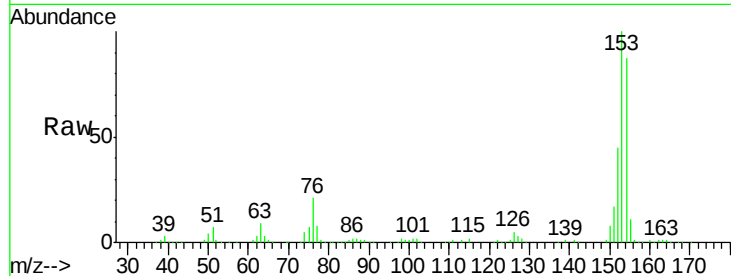
Tgt Ion:154 Resp: 117511

Ion Ratio Lower Upper

154 100

153 115.2 89.8 134.6

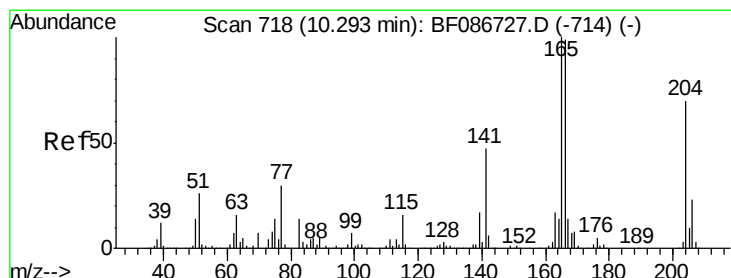
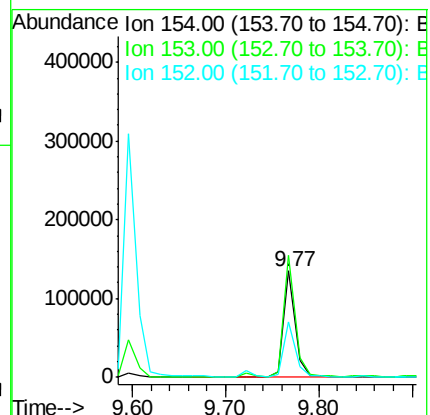
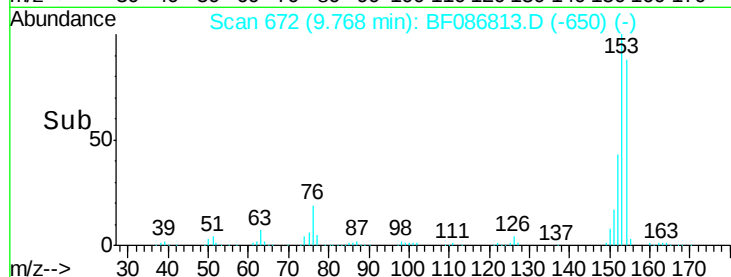
152 51.9 43.4 65.0



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



#57

Fluorene

Concen: 15.52 ng

RT: 10.28 min Scan# 717

Delta R.T. -0.05 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

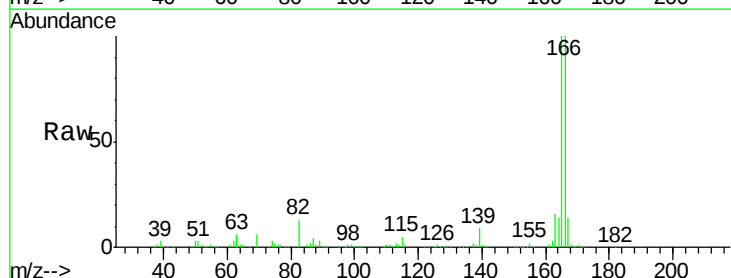
Tgt Ion:166 Resp: 281740

Ion Ratio Lower Upper

166 100

165 100.3 79.0 118.6

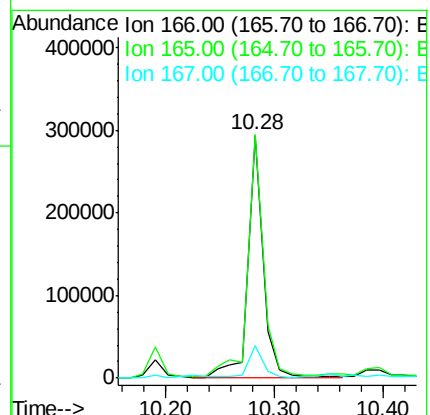
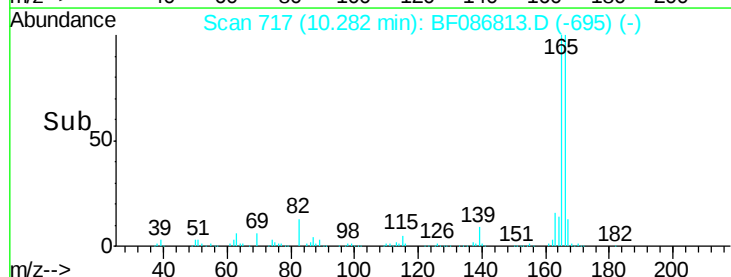
167 13.6 10.6 15.8

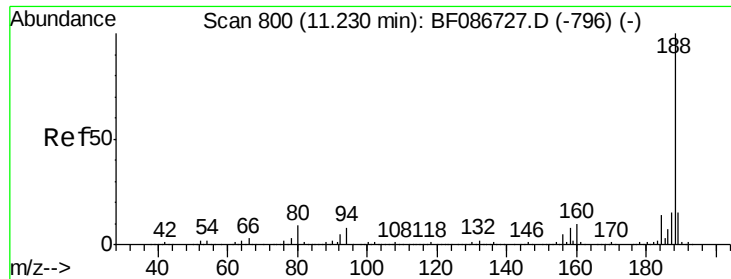


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

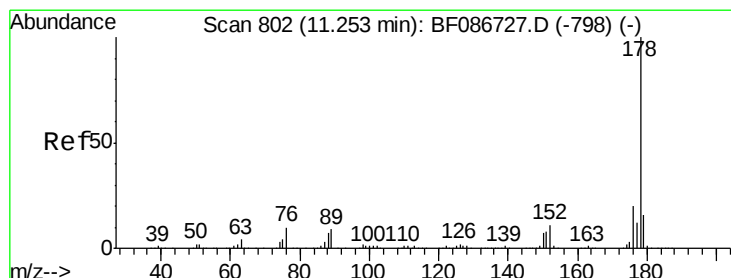
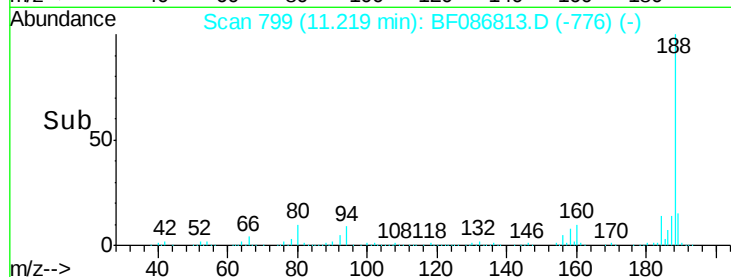
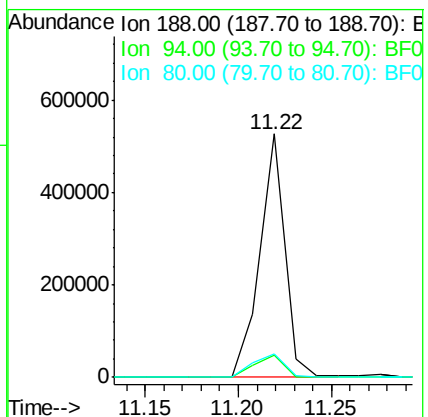
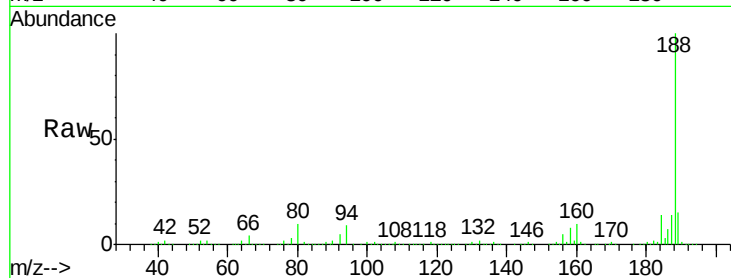




#63
Phenanthrene-d10
Concen: 40.00 ng
RT: 11.22 min Scan# 799
Delta R.T. -0.03 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

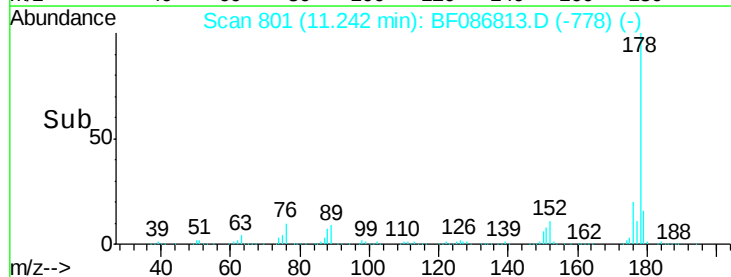
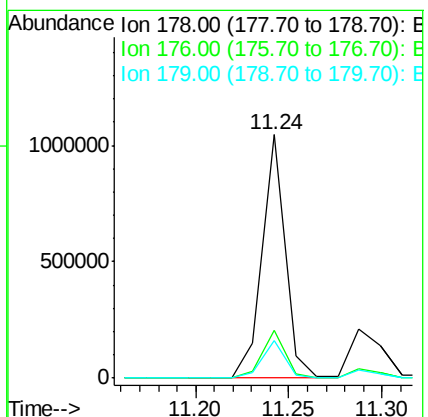
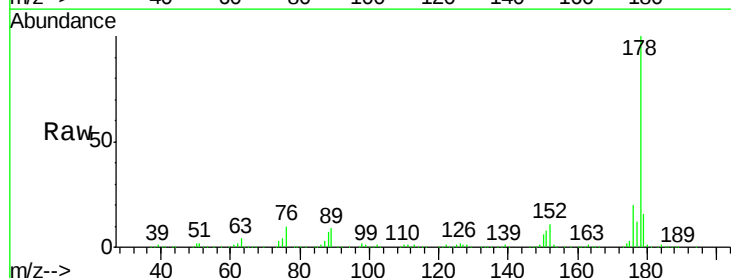
Instrument :
BNA_F
ClientSampleId :
TEC-B4COMPDL

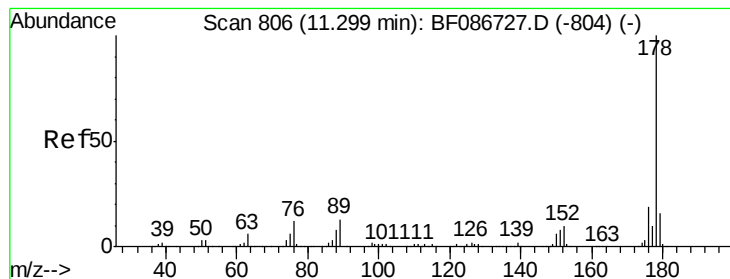
Tgt Ion:188 Resp: 488256
Ion Ratio Lower Upper
188 100
94 9.3 6.8 10.2
80 9.7 7.1 10.7



#70
Phenanthrene
Concen: 34.32 ng
RT: 11.24 min Scan# 801
Delta R.T. -0.03 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Tgt Ion:178 Resp: 900193
Ion Ratio Lower Upper
178 100
176 19.6 16.0 24.0
179 15.6 12.6 18.8





#71

Anthracene

Concen: 9.81 ng

RT: 11.29 min Scan# 805

Delta R.T. -0.05 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

Instrument :

BNA_F

ClientSampleId :

TEC-B4COMPDL

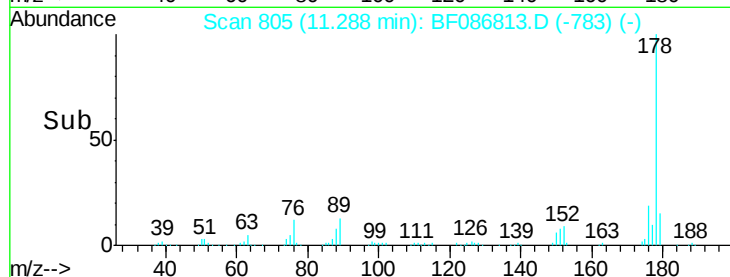
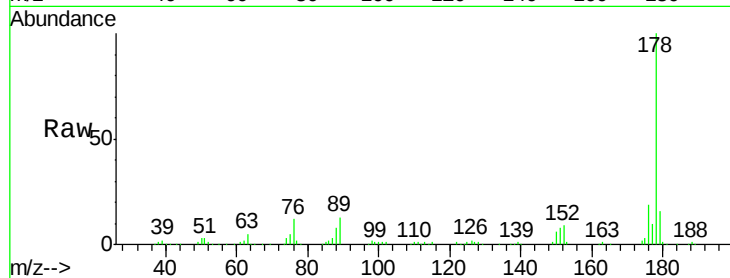
Tgt Ion:178 Resp: 269511

Ion Ratio Lower Upper

178 100

176 18.8 15.6 23.4

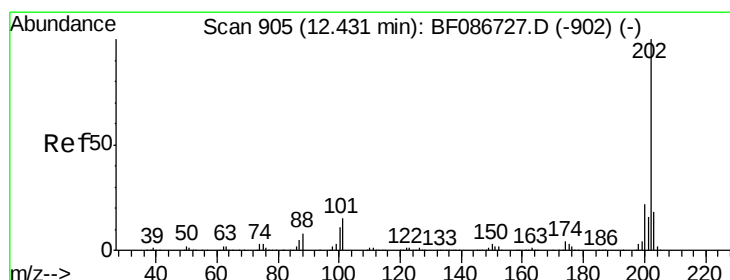
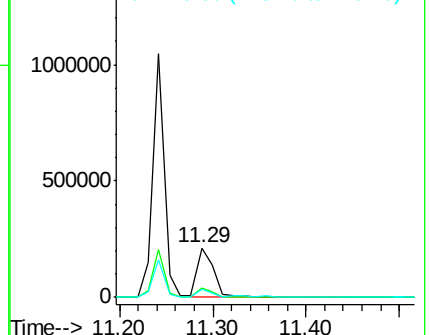
179 15.7 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 10.38 ng

RT: 12.42 min Scan# 904

Delta R.T. -0.05 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

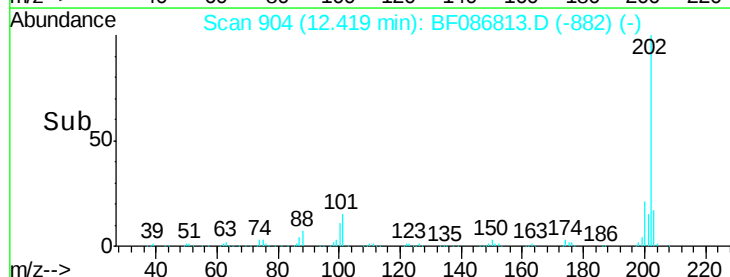
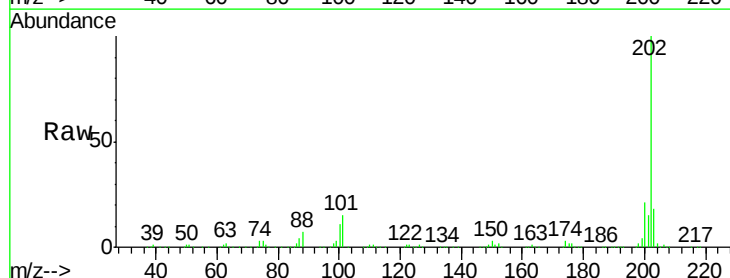
Tgt Ion:202 Resp: 272939

Ion Ratio Lower Upper

202 100

101 15.0 0.0 35.4

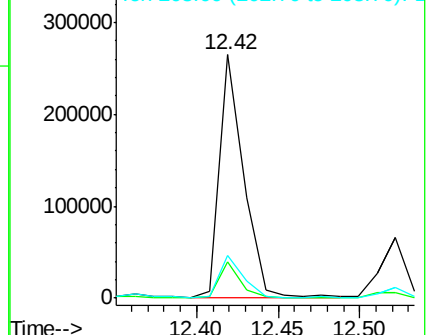
203 17.5 0.0 38.1

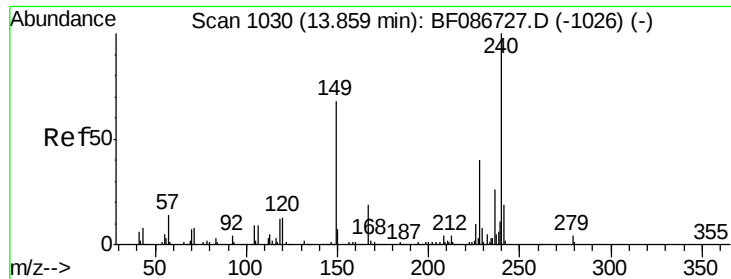


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 40.00 ng

RT: 13.85 min Scan# 1029

Delta R.T. -0.03 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

Instrument :

BNA_F

ClientSampleId :

TEC-B4COMPDL

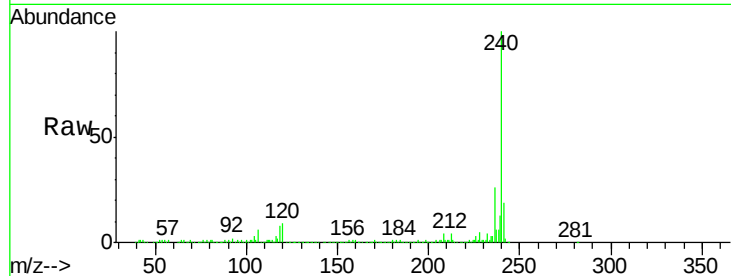
Tgt Ion:240 Resp: 352889

Ion Ratio Lower Upper

240 100

120 9.0 11.2 16.8#

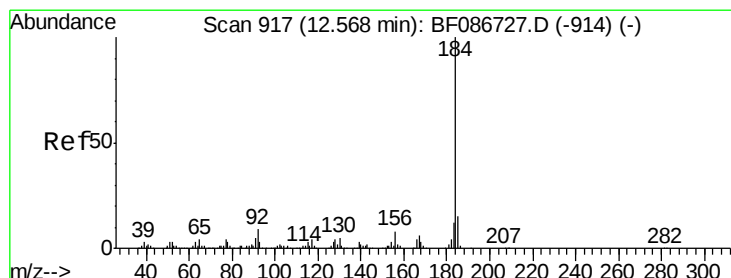
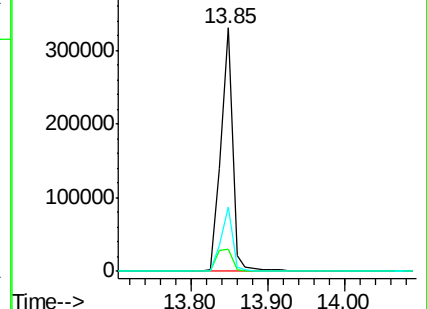
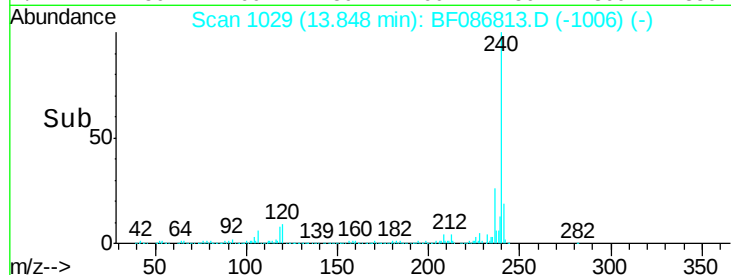
236 26.3 21.2 31.8



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



#76

Benzidine

Concen: 7.16 ng

RT: 12.80 min Scan# 937

Delta R.T. 0.21 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

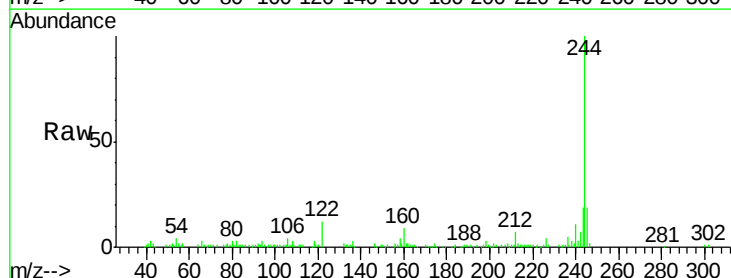
Tgt Ion:184 Resp: 804

Ion Ratio Lower Upper

184 100

185 0.0 13.6 20.4#

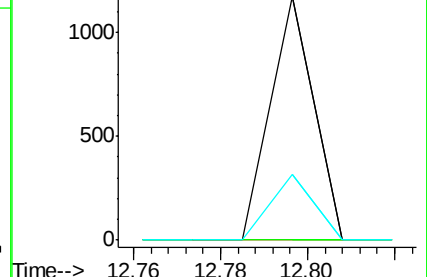
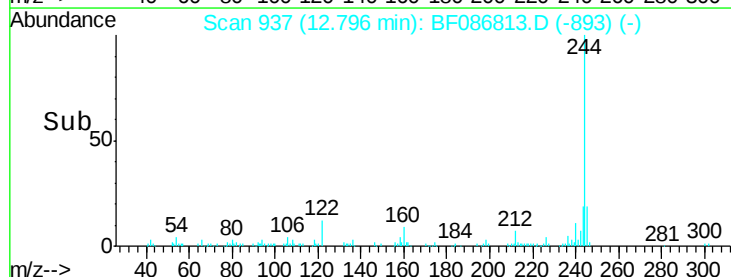
183 27.2 9.8 14.6#

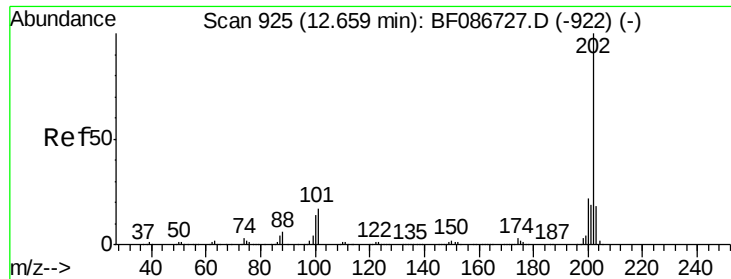


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pyrene

Concen: 12.64 ng

RT: 12.65 min Scan# 924

Delta R.T. -0.05 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

Instrument :

BNA_F

ClientSampleId :

TEC-B4COMPDL

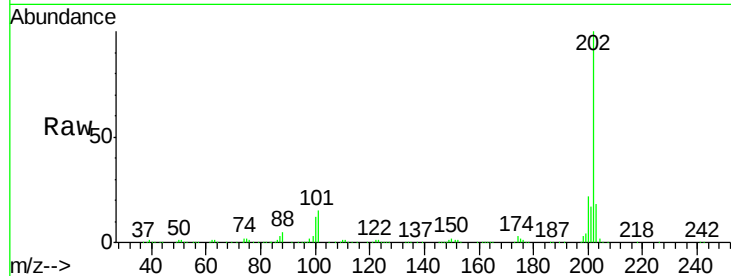
Tgt Ion:202 Resp: 355522

Ion Ratio Lower Upper

202 100

200 21.6 17.7 26.5

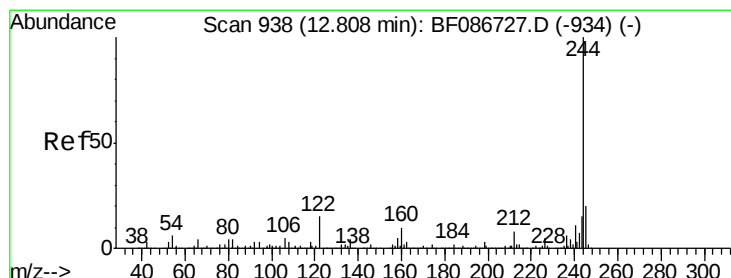
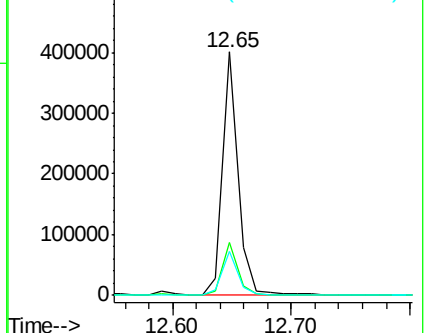
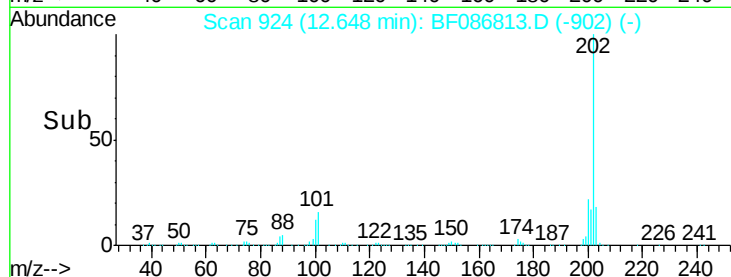
203 17.8 14.2 21.4



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: 4.13 ng

RT: 12.80 min Scan# 937

Delta R.T. -0.05 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

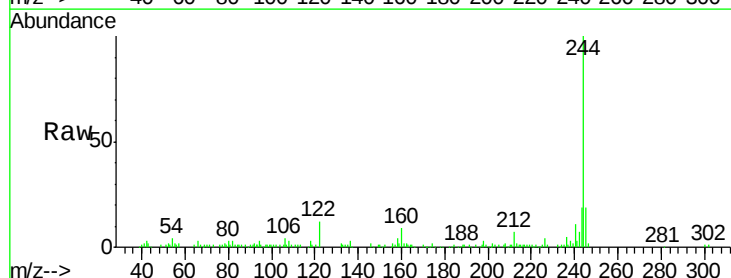
Tgt Ion:244 Resp: 72161

Ion Ratio Lower Upper

244 100

212 7.3 6.2 9.2

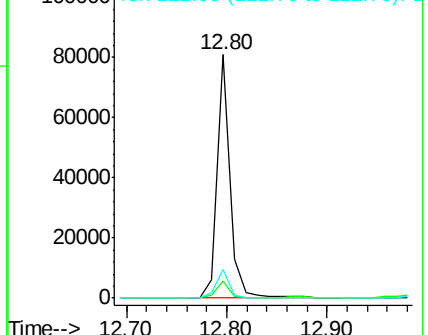
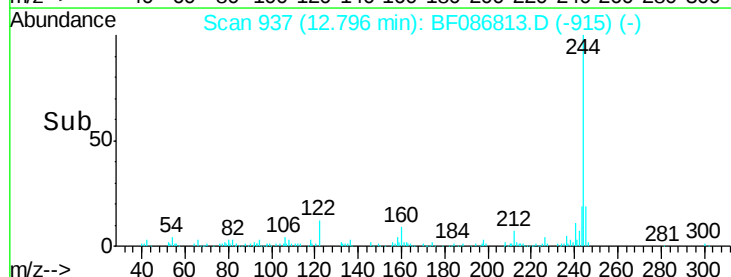
122 11.7 12.0 18.0#

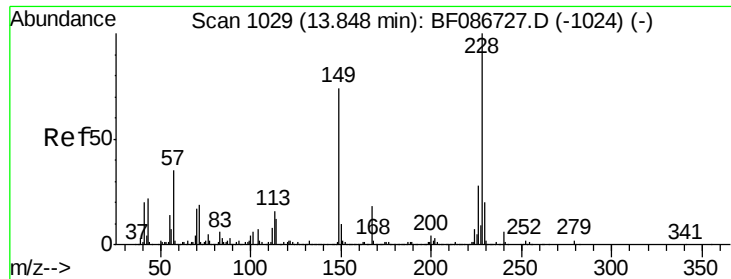


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 6.29 ng

RT: 13.84 min Scan# 1028

Delta R.T. -0.03 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

Instrument :

BNA_F

ClientSampleId :

TEC-B4COMPDL

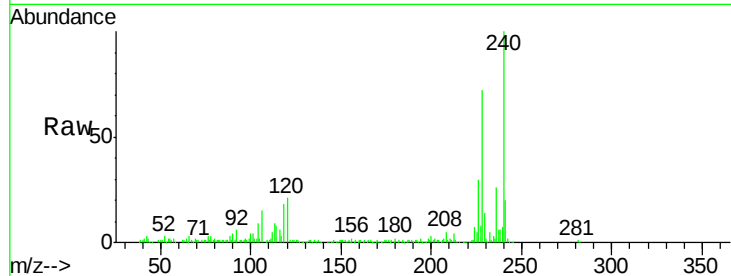
Tgt Ion:228 Resp: 125626

Ion Ratio Lower Upper

228 100

226 42.3 22.5 33.7#

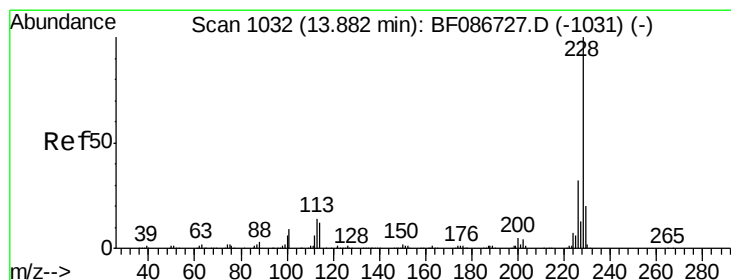
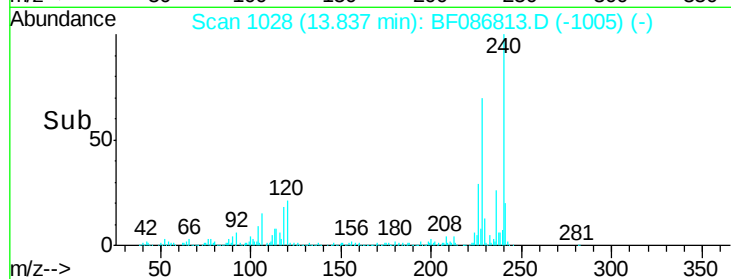
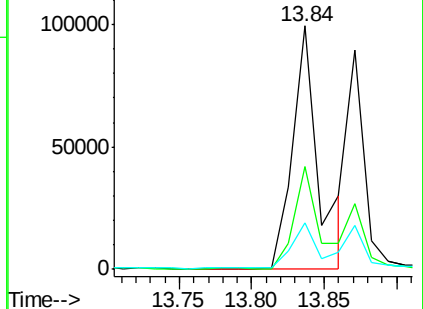
229 19.2 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 5.90 ng

RT: 13.84 min Scan# 1028

Delta R.T. -0.08 min

Lab File: BF086813.D

Acq: 8 May 2016 10:05

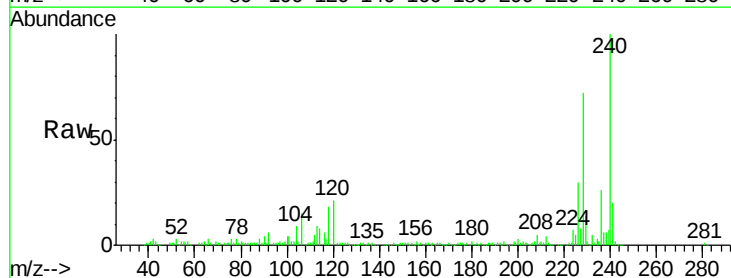
Tgt Ion:228 Resp: 125626

Ion Ratio Lower Upper

228 100

226 42.3 24.4 36.6#

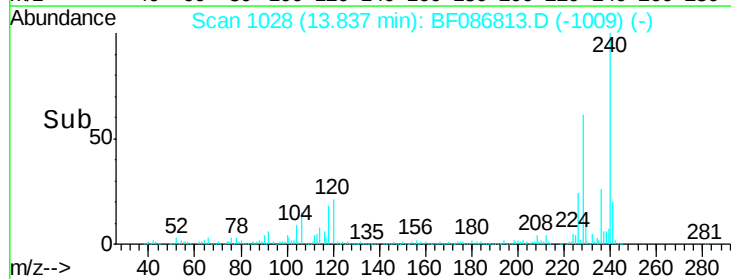
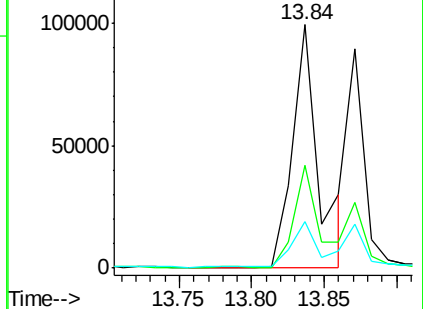
229 19.2 15.8 23.8

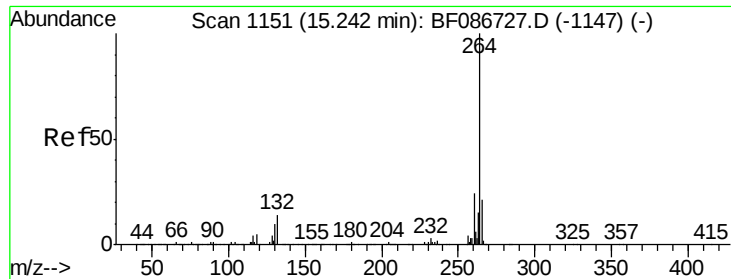


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



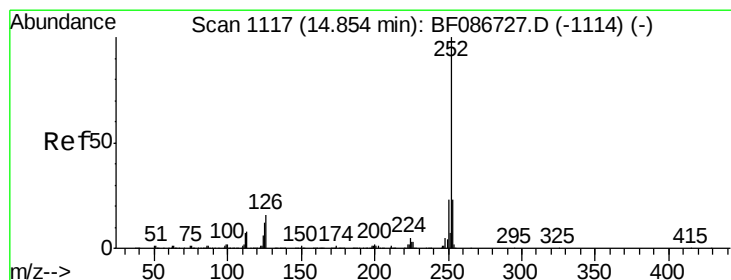
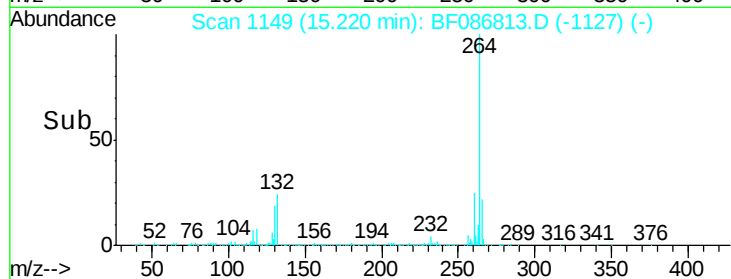
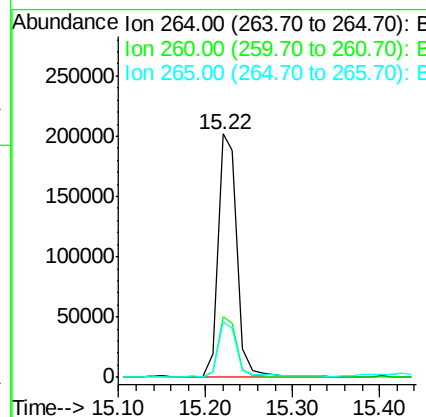
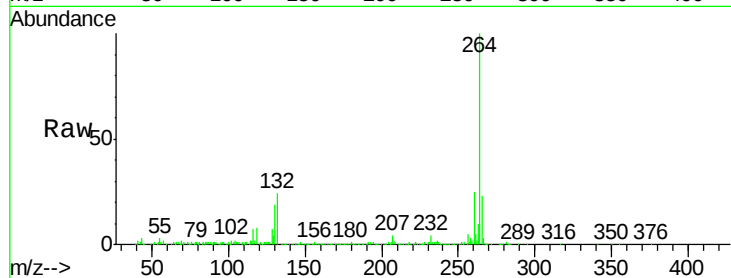


#86
Perylene-d12
Concen: 40.00 ng
RT: 15.22 min Scan# 1149
Delta R.T. -0.05 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Instrument :
BNA_F
ClientSampleId :
TEC-B4COMPDL

Tgt Ion: 264 Resp: 310917

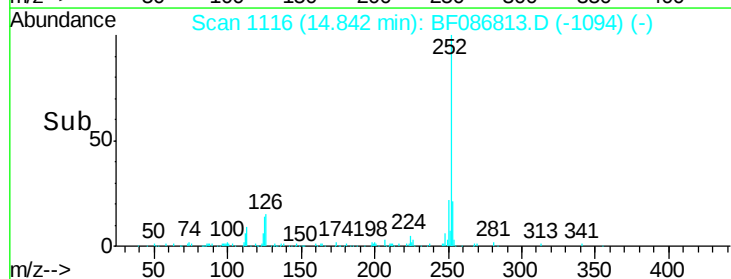
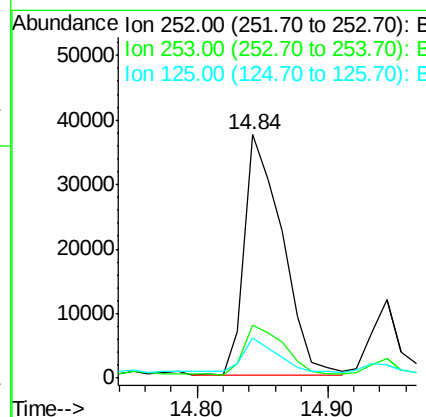
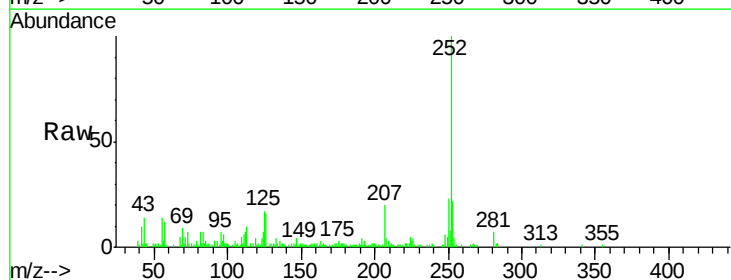
Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	22.6	17.3	25.9

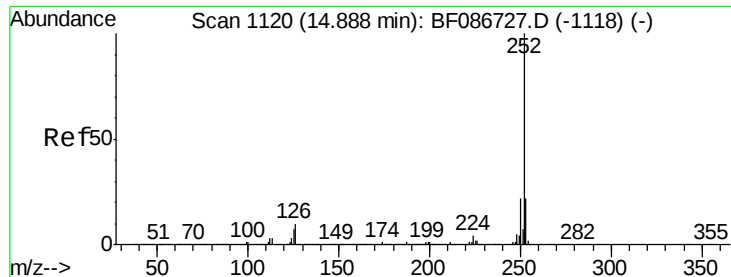


#87
Benzo(b)fluoranthene
Concen: 4.03 ng
RT: 14.84 min Scan# 1116
Delta R.T. -0.05 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Tgt Ion: 252 Resp: 75287

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	16.7	11.4	17.0

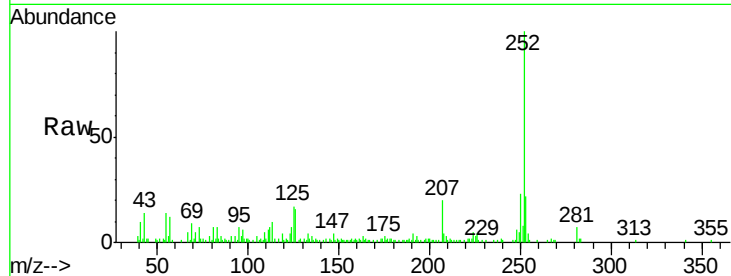




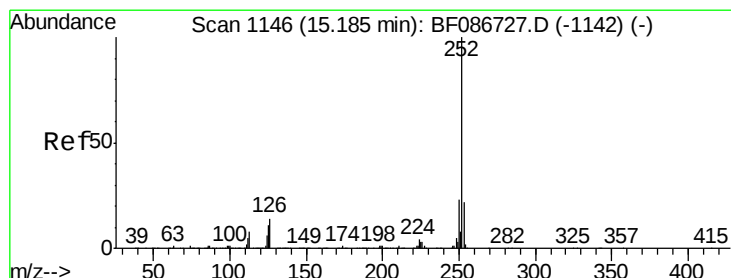
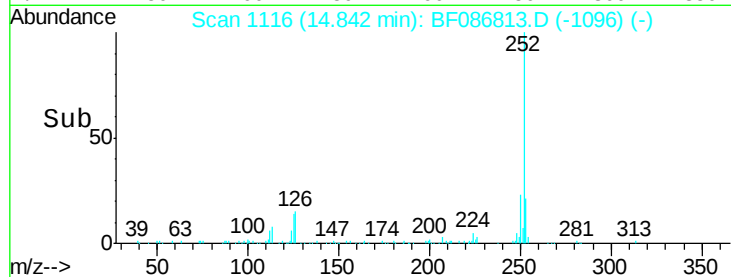
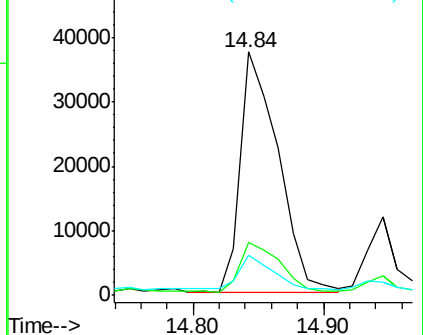
#88
Benzo(k)fluoranthene
Concen: 4.28 ng
RT: 14.84 min Scan# 1116
Delta R.T. -0.07 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Instrument :
BNA_F
ClientSampleId :
TEC-B4COMPDL

Tgt Ion: 252 Resp: 75287
Ion Ratio Lower Upper
252 100
253 21.9 17.8 26.6
125 16.7 9.1 13.7#

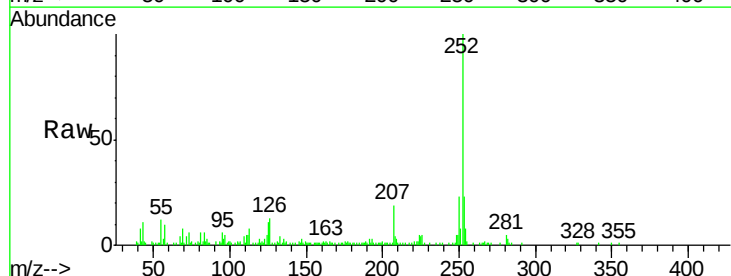


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89
Benzo(a)pyrene
Concen: 3.61 ng
RT: 15.17 min Scan# 1145
Delta R.T. -0.05 min
Lab File: BF086813.D
Acq: 8 May 2016 10:05

Tgt Ion: 252 Resp: 62188
Ion Ratio Lower Upper
252 100
253 22.7 17.2 25.8
125 10.7 9.0 13.6



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

