

Data Path : Z:\HPCHEM1\BNA F\Data\BF051216\
 Data File : BF086974.D
 Acq On : 13 May 2016 14:32
 Operator : UM/SJ
 Sample : H2965-03DL 10X
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 13 15:36:20 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 13 14:55:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.62	152	135124	20.00	ng	-0.08
21) Naphthalene-d8	7.91	136	522423	20.00	ng	-0.08
38) Acenaphthene-d10	9.66	164	221497	20.00	ng	-0.08
63) Phenanthrene-d10	11.13	188	353743	20.00	ng	-0.08
75) Chrysene-d12	13.76	240	323093	20.00	ng	-0.08
86) Perylene-d12	15.12	264	257930	20.00	ng	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.21	112	117664	14.75	ng	-0.08
7) Phenol-d6	6.28	99	159806	14.99	ng	-0.08
23) Nitrobenzene-d5	7.19	82	88485	8.50	ng	-0.08
41) 2,4,6-Tribromophenol	10.44	330	23665	10.09	ng	-0.08
44) 2-Fluorobiphenyl	8.98	172	122209	9.27	ng	-0.08
78) Terphenyl-d14	12.72	244	85484	5.61	ng	-0.08

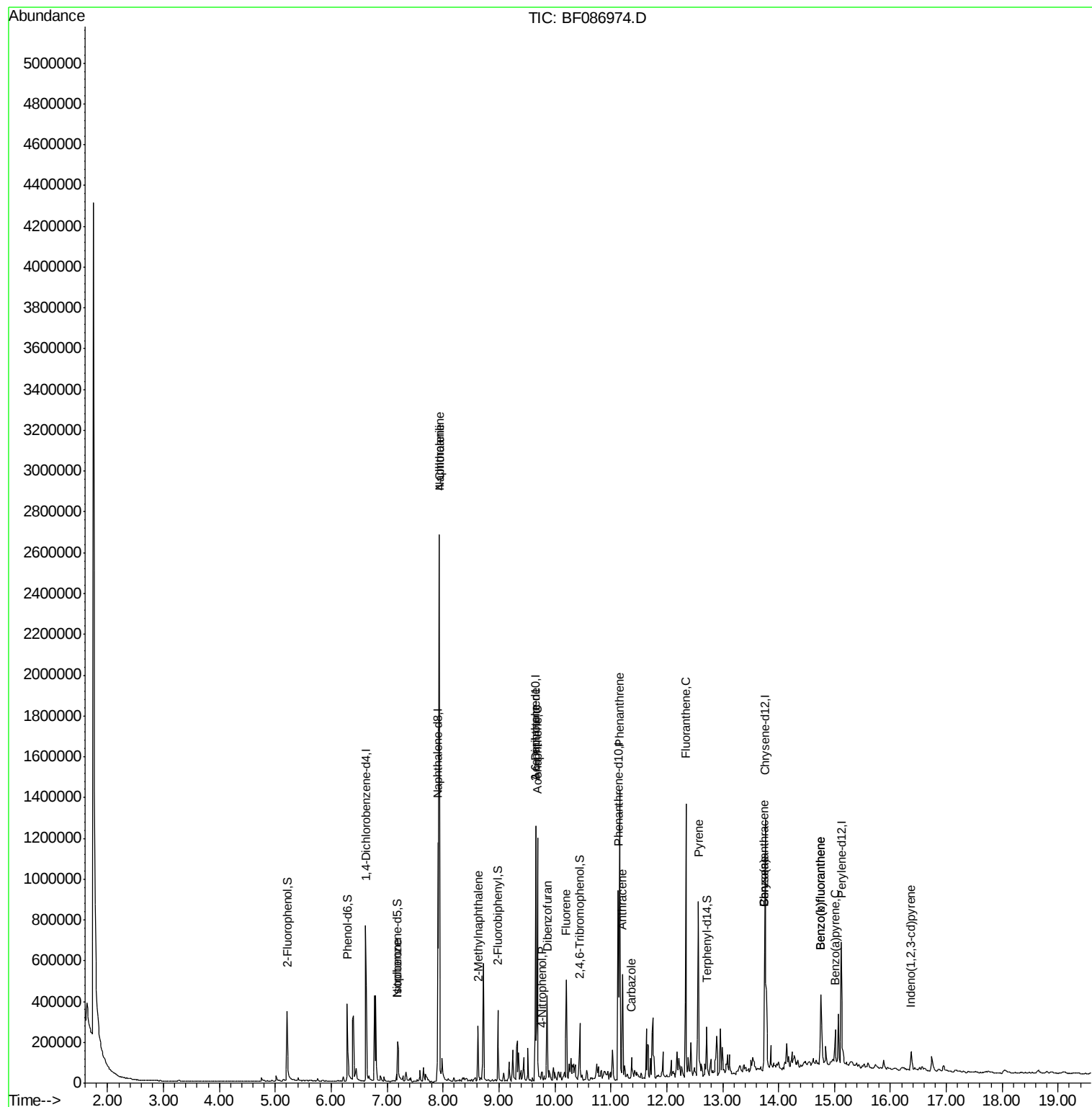
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.19	82	88483	4.58	ng	# 68
31) Naphthalene	7.93	128	1087911	41.58	ng	99
33) 4-Chloroaniline	7.93	127	143152	14.08	ng	# 30
37) 2-Methylnaphthalene	8.63	142	105843	6.92	ng	100
50) 2,6-Dinitrotoluene	9.66	165	32540	9.15	ng	# 21
51) Acenaphthene	9.69	154	251735	19.93	ng	99
54) Dibenzofuran	9.86	168	134735	8.31	ng	99
55) 4-Nitrophenol	9.77	139	1752	5.22	ng	# 46
57) Fluorene	10.20	166	153885	11.13	ng	99
70) Phenanthrene	11.15	178	667585	35.36	ng	100
71) Anthracene	11.21	178	218694	11.33	ng	99
72) Carbazole	11.37	167	47940	2.89	ng	98
74) Fluoranthene	12.34	202	526967	27.14	ng	93
77) Pyrene	12.57	202	483848	19.56	ng	98
80) Benzo(a)anthracene	13.75	228	217310	11.98	ng	# 92
82) Chrysene	13.75	228	217310	11.78	ng	94
85) Indeno(1,2,3-cd)pyrene	16.37	276	58908	3.84	ng	96
87) Benzo(b)fluoranthene	14.75	252	221361	13.21	ng	97
88) Benzo(k)fluoranthene	14.75	252	221361	16.13	ng	99
89) Benzo(a)pyrene	15.02	252	78211	5.41	ng	98

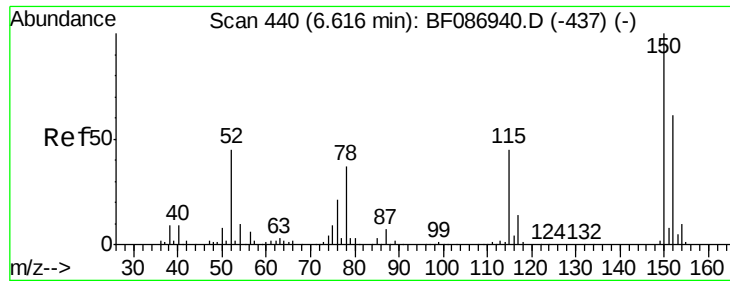
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 440

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

Instrument :

BNA_F

ClientSampleId :

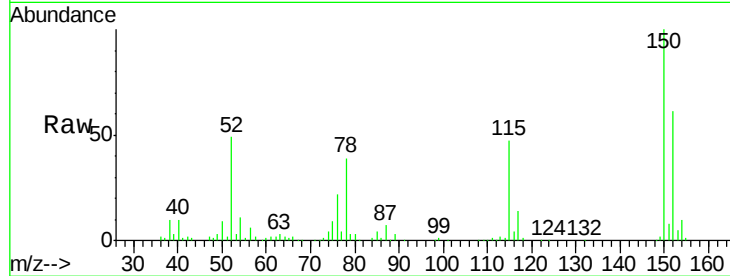
Tot Ion:152 Resp: 135124

Ion Ratio Lower Upper

152 100

150 163.6 125.8 188.6

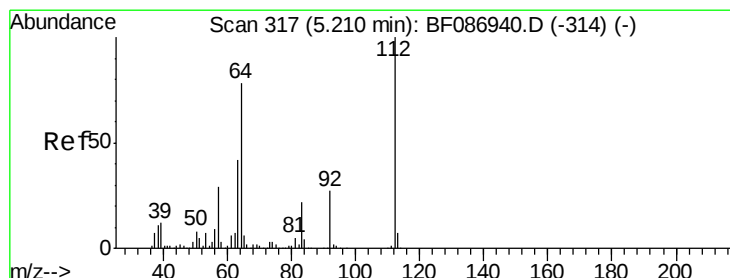
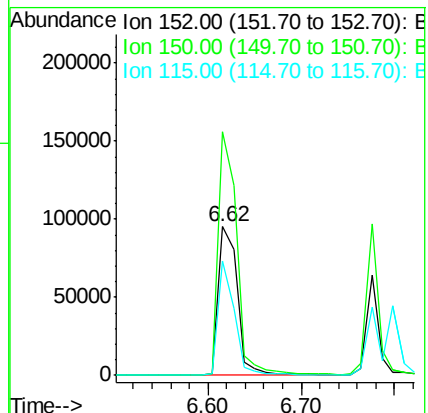
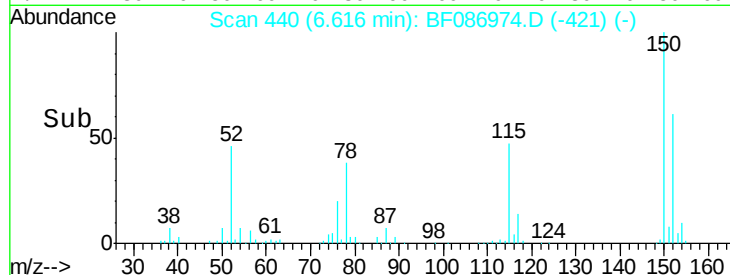
115 77.1 51.5 77.3



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: 14.75 ng

RT: 5.21 min Scan# 317

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

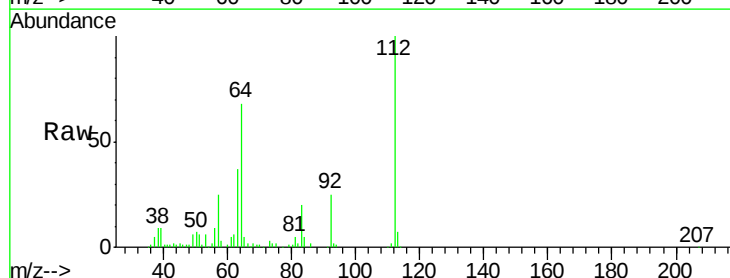
Tgt Ion:112 Resp: 117664

Ion Ratio Lower Upper

112 100

64 68.3 52.1 78.1

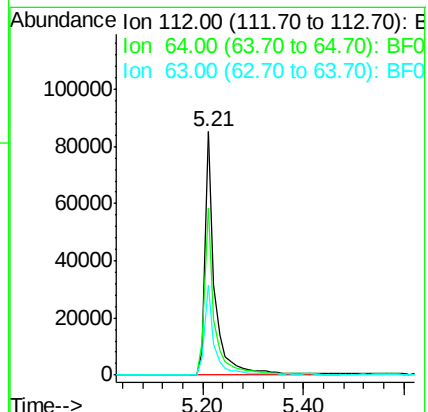
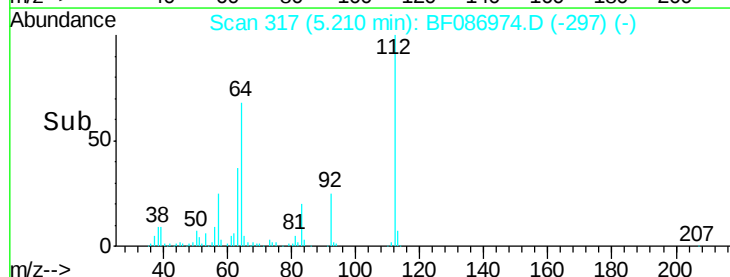
63 37.0 25.7 38.5



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: 14.99 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

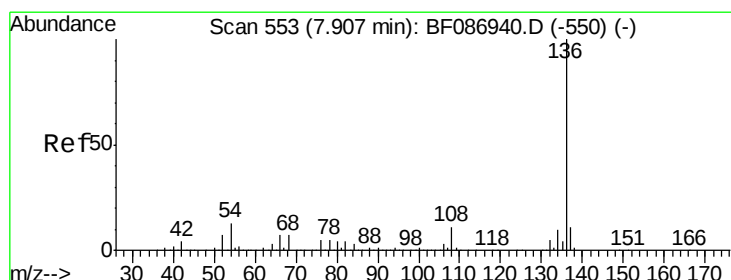
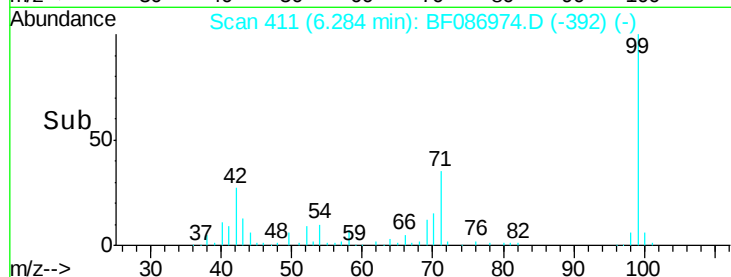
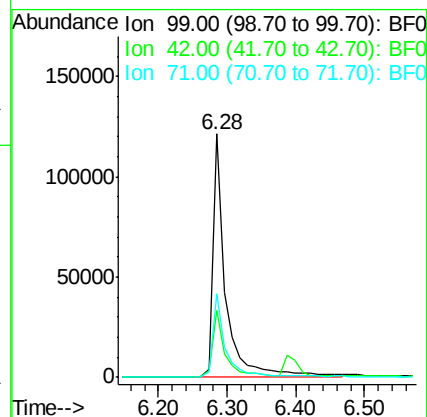
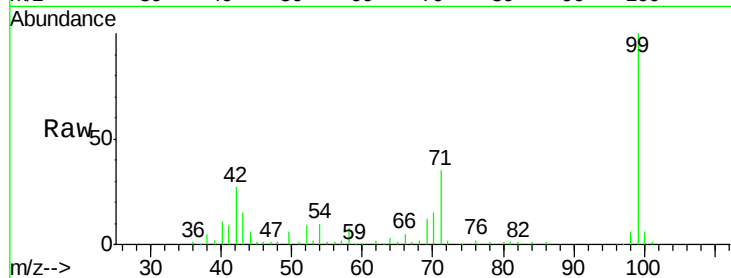
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 159806

Ion	Ratio	Lower	Upper
99	100		
42	27.4	13.6	20.4#
71	34.5	24.6	36.8



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 553

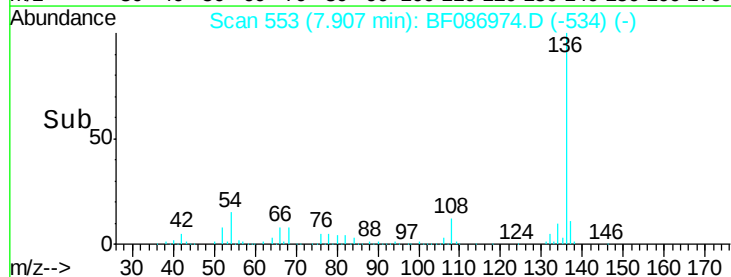
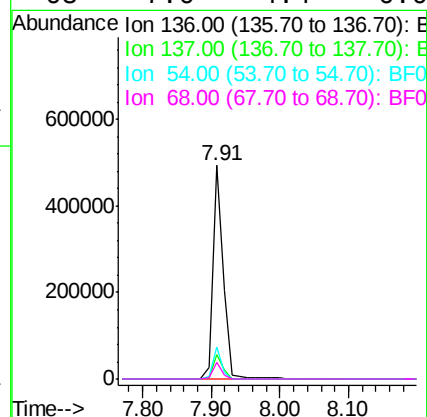
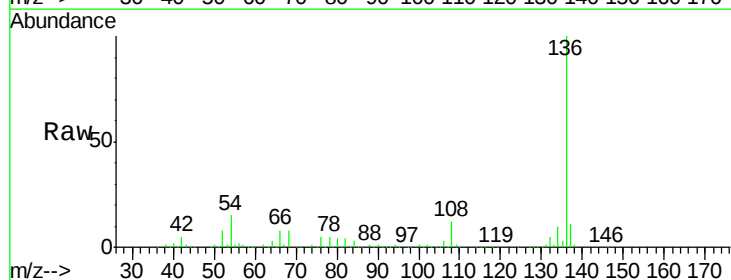
Delta R.T. -0.08 min

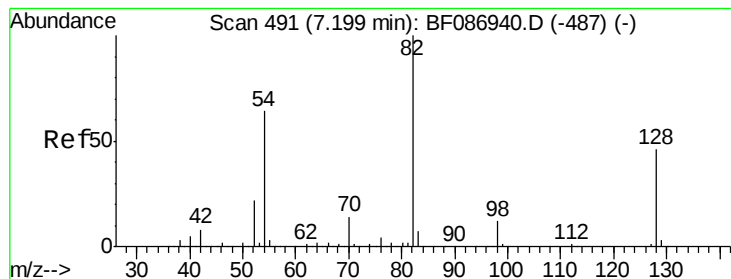
Lab File: BF086974.D

Acq: 13 May 2016 14:32

Tgt Ion: 136 Resp: 522423

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.8	13.2
54	14.8	5.0	7.4#
68	7.6	4.4	6.6#





#23

Nitrobenzene-d5

Concen: 8.50 ng

RT: 7.19 min Scan# 490

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

Instrument :

BNA_F

ClientSampleId :

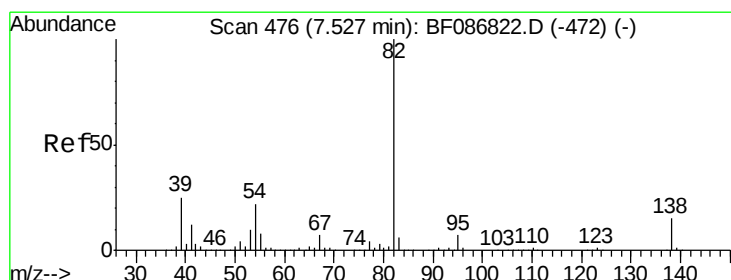
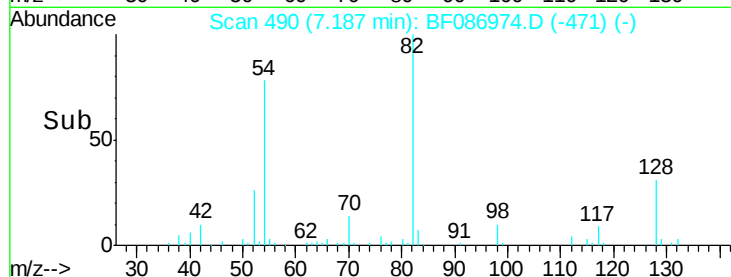
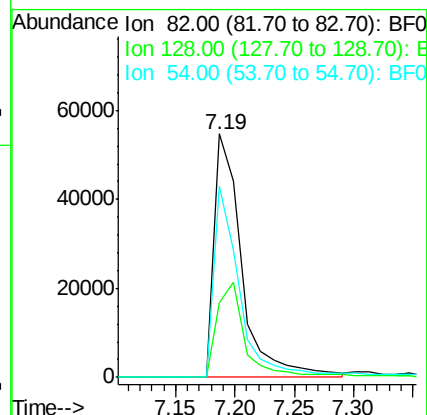
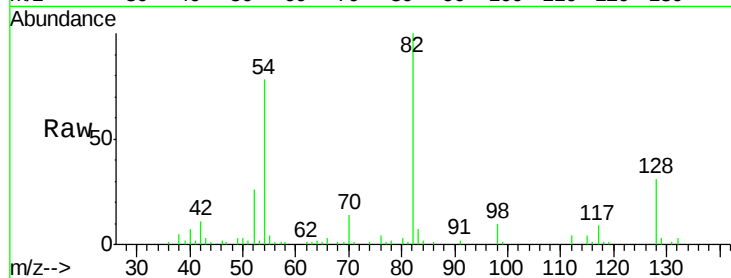
Tot Ion: 82 Resp: 88485

Ion Ratio Lower Upper

82 100

128 30.6 40.6 61.0#

54 78.5 38.1 57.1#



#25

Isophorone

Concen: 4.58 ng

RT: 7.19 min Scan# 490

Delta R.T. -0.34 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

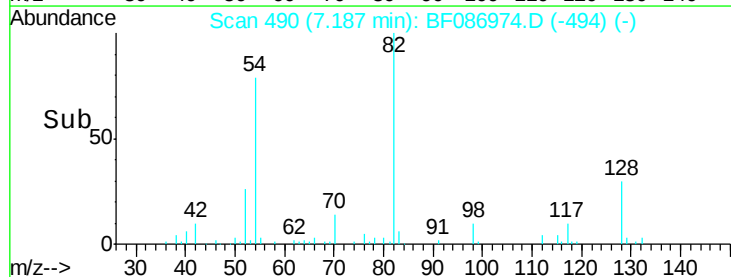
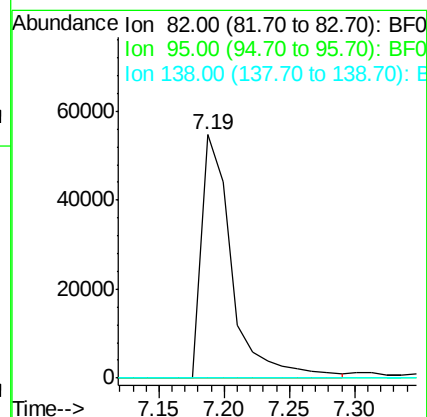
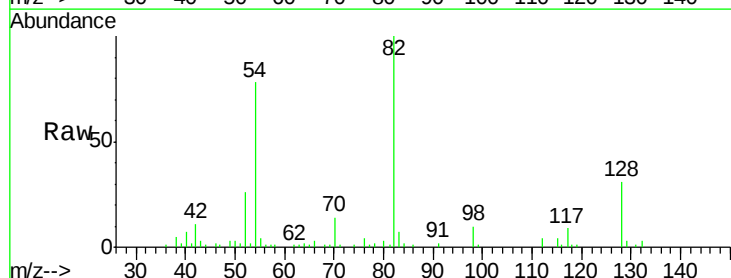
Tgt Ion: 82 Resp: 88483

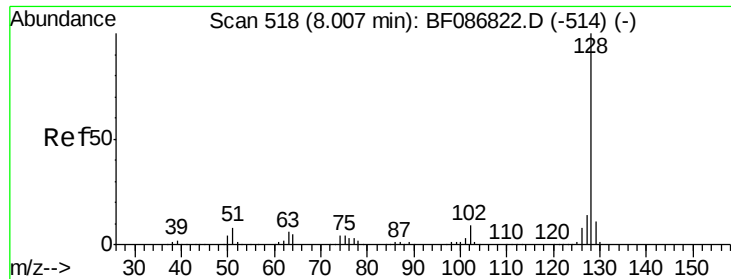
Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

138 0.0 12.4 18.6#

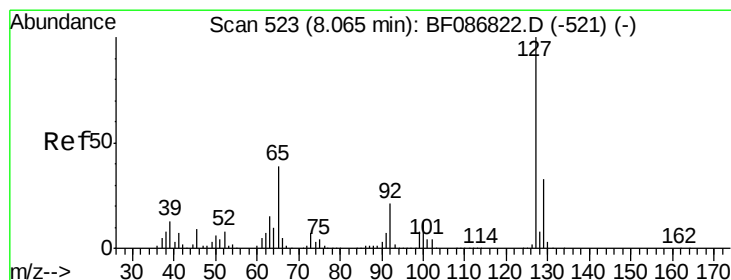
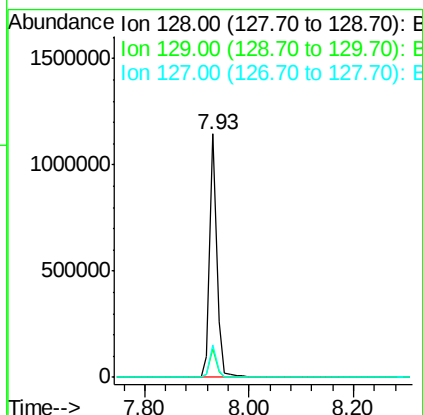
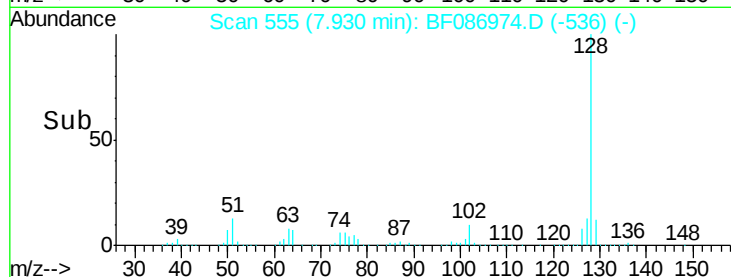
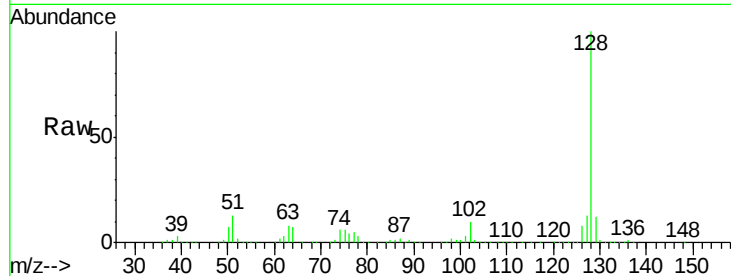




#31
Naphthalene
Concen: 41.58 ng
RT: 7.93 min Scan# 555
Delta R.T. -0.08 min
Lab File: BF086974.D
Acq: 13 May 2016 14:32

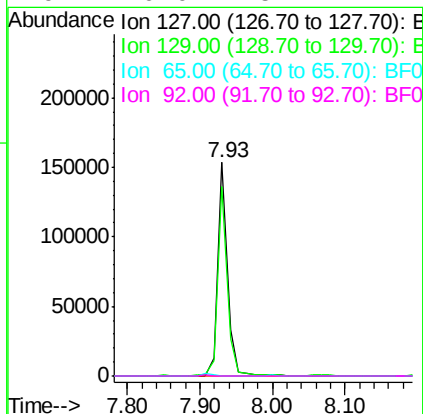
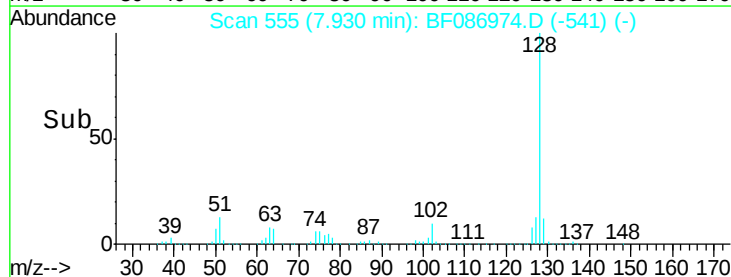
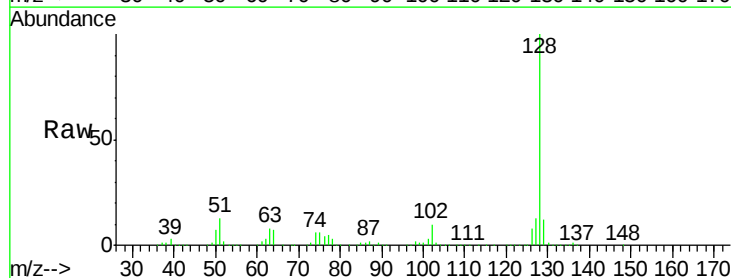
Instrument :
BNA_F
ClientSampleId :

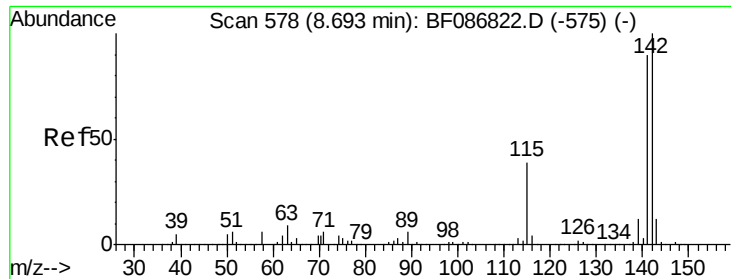
Tot Ion:128 Resp: 1087911
Ion Ratio Lower Upper
128 100
129 11.9 8.6 13.0
127 13.4 10.8 16.2



#33
4-Chloroaniline
Concen: 14.08 ng
RT: 7.93 min Scan# 555
Delta R.T. -0.13 min
Lab File: BF086974.D
Acq: 13 May 2016 14:32

Tgt Ion:127 Resp: 143152
Ion Ratio Lower Upper
127 100
129 88.7 26.2 39.4#
65 0.0 23.0 34.4#
92 0.0 15.1 22.7#

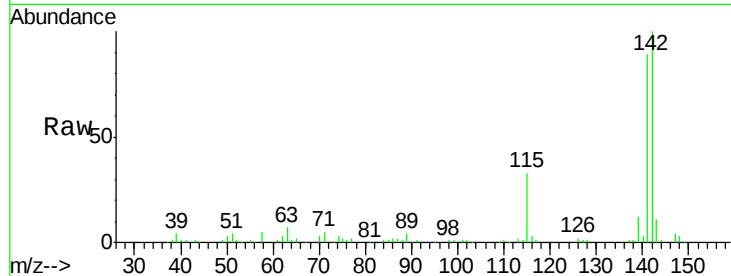




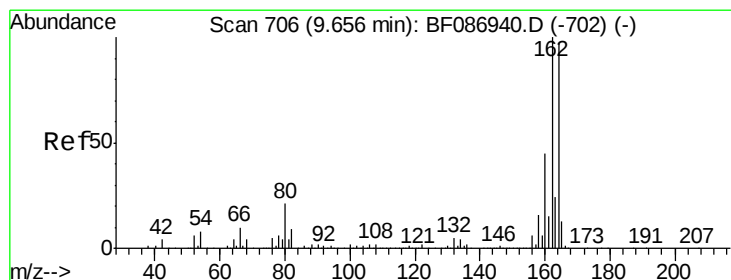
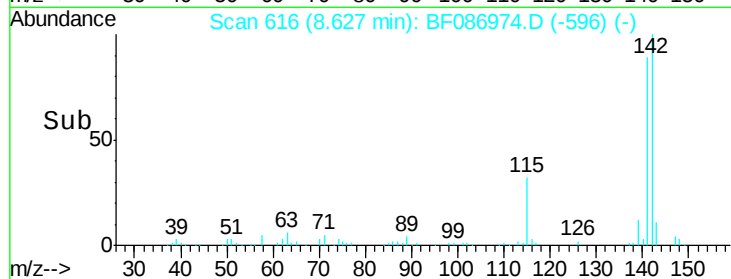
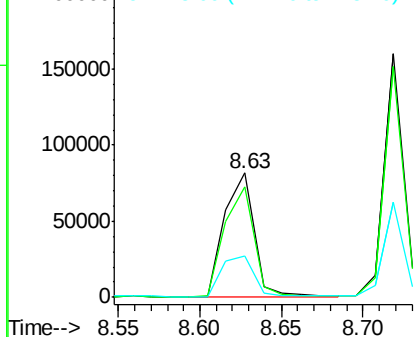
#37
 2-Methylnaphthalene
 Concen: 6.92 ng
 RT: 8.63 min Scan# 616
 Delta R.T. -0.07 min
 Lab File: BF086974.D
 Acq: 13 May 2016 14:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:142 Resp: 105843
 Ion Ratio Lower Upper
 142 100
 141 89.1 71.0 106.6
 115 33.1 26.6 39.8

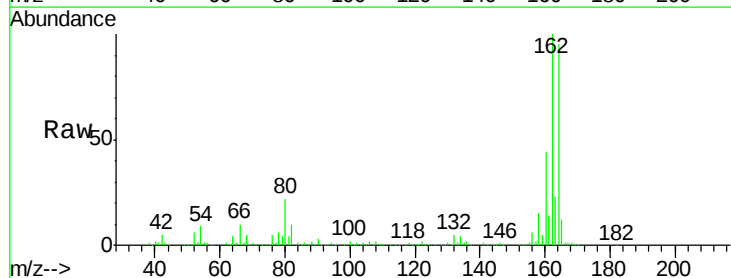


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

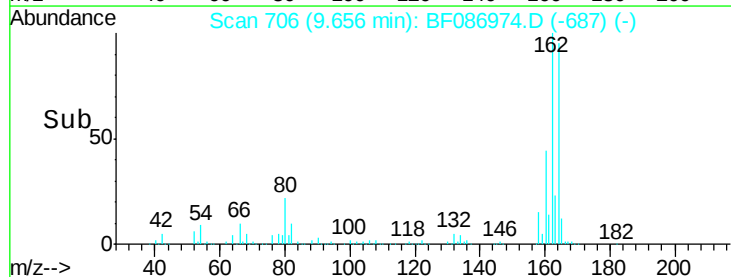
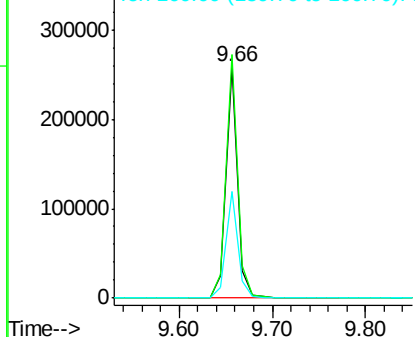


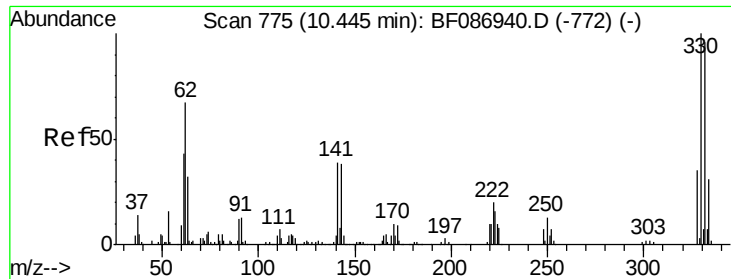
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.66 min Scan# 706
 Delta R.T. -0.08 min
 Lab File: BF086974.D
 Acq: 13 May 2016 14:32

Tgt Ion:164 Resp: 221497
 Ion Ratio Lower Upper
 164 100
 162 105.4 82.8 124.2
 160 46.0 36.9 55.3



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

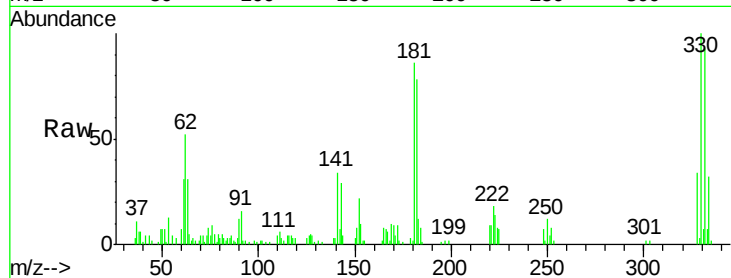




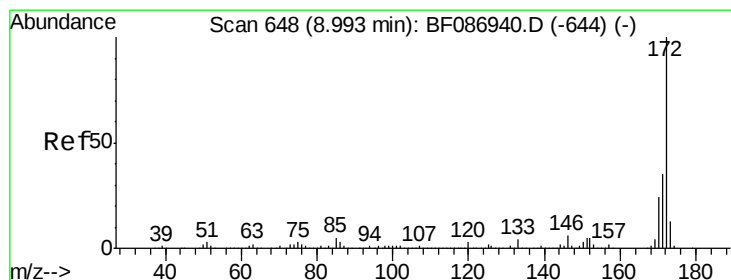
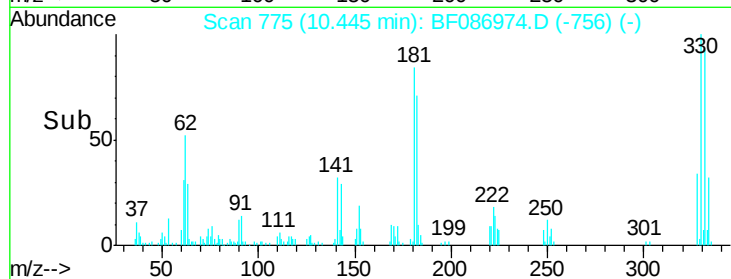
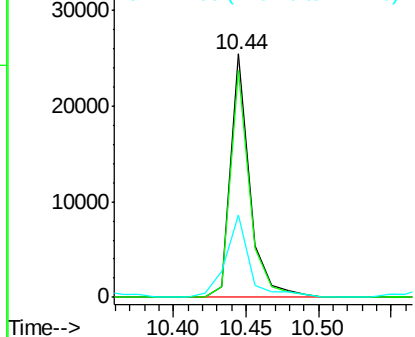
#41
 2,4,6-Tribromophenol
 Concen: 10.09 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.08 min
 Lab File: BF086974.D
 Acq: 13 May 2016 14:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 23665
 Ion Ratio Lower Upper
 330 100
 332 92.9 79.0 118.4
 141 41.8 31.2 46.8

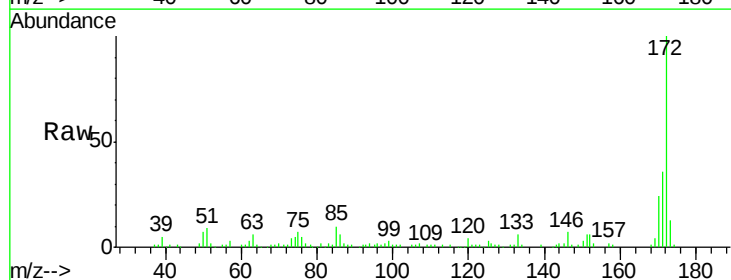


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

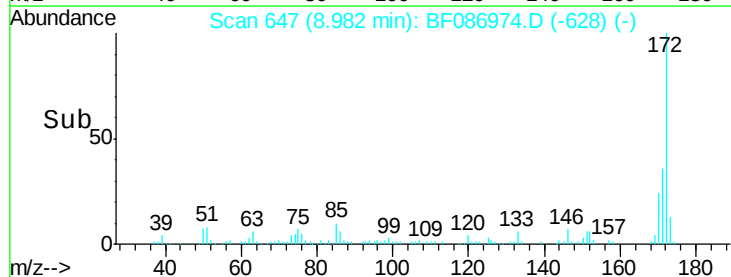
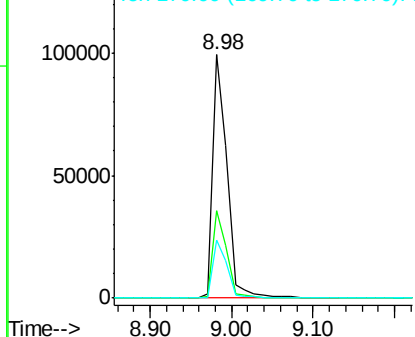


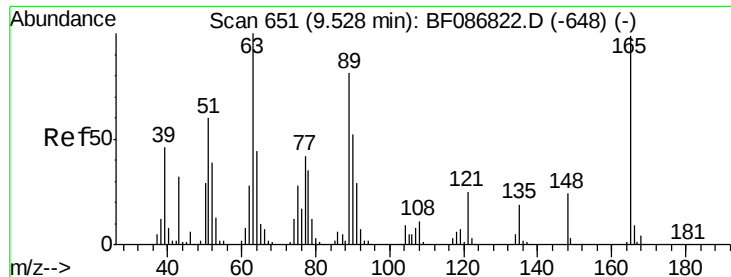
#44
 2-Fluorobiphenyl
 Concen: 9.27 ng
 RT: 8.98 min Scan# 647
 Delta R.T. -0.08 min
 Lab File: BF086974.D
 Acq: 13 May 2016 14:32

Tgt Ion:172 Resp: 122209
 Ion Ratio Lower Upper
 172 100
 171 36.0 29.0 43.6
 170 23.7 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

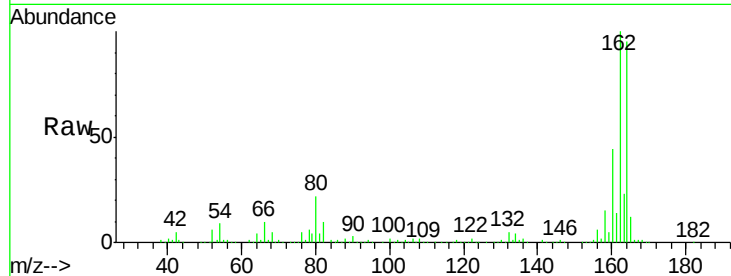




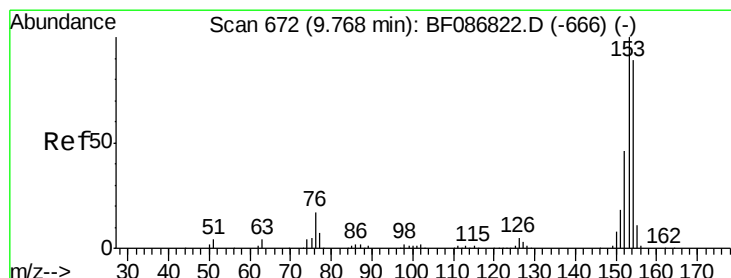
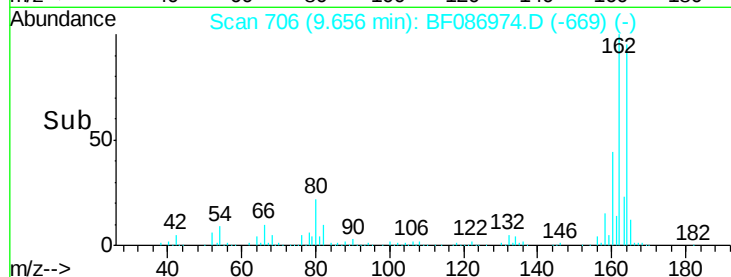
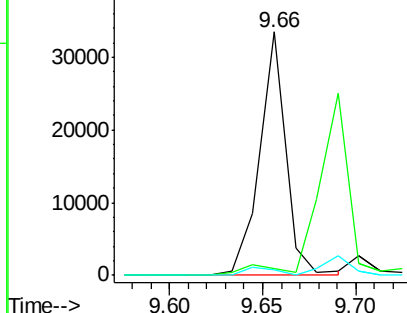
#50
2,6-Dinitrotoluene
Concen: 9.15 ng
RT: 9.66 min Scan# 706
Delta R.T. 0.13 min
Lab File: BF086974.D
Acq: 13 May 2016 14:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 32540
Ion Ratio Lower Upper
165 100
63 3.0 51.8 77.8#
89 2.1 50.7 76.1#

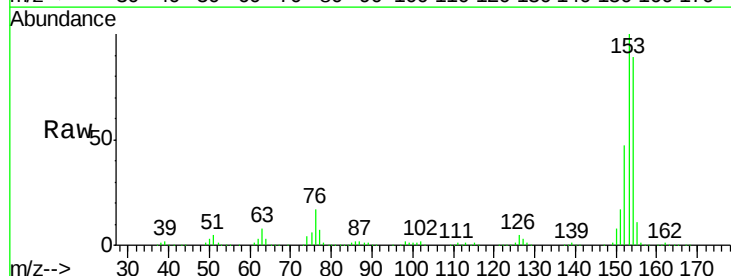


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

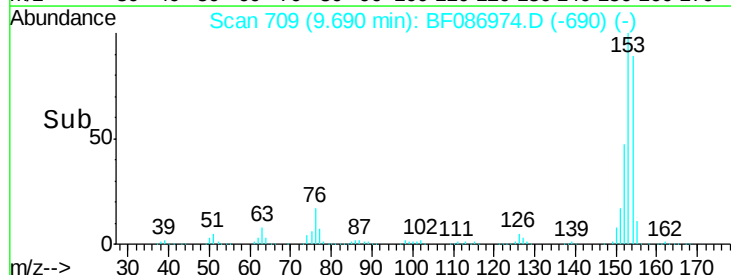
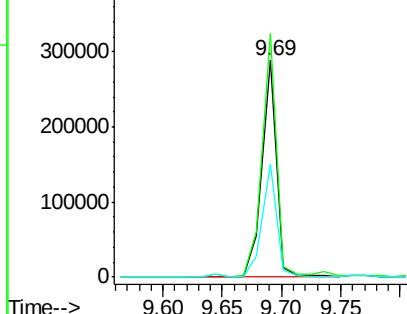


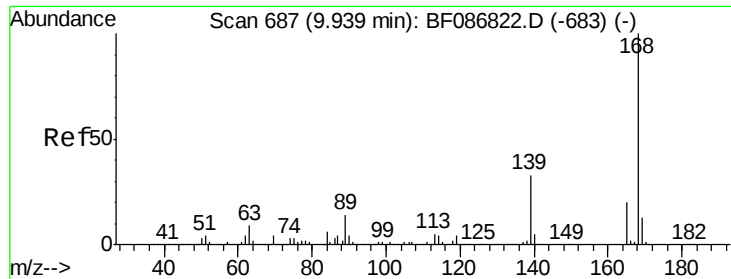
#51
Acenaphthene
Concen: 19.93 ng
RT: 9.69 min Scan# 709
Delta R.T. -0.08 min
Lab File: BF086974.D
Acq: 13 May 2016 14:32

Tgt Ion:154 Resp: 251735
Ion Ratio Lower Upper
154 100
153 112.4 89.8 134.6
152 52.3 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

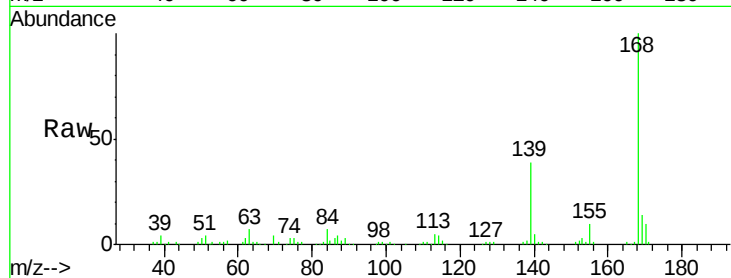




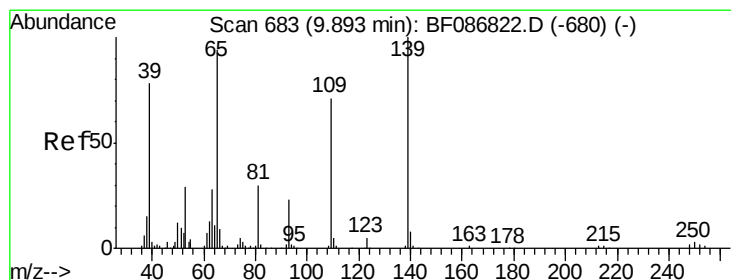
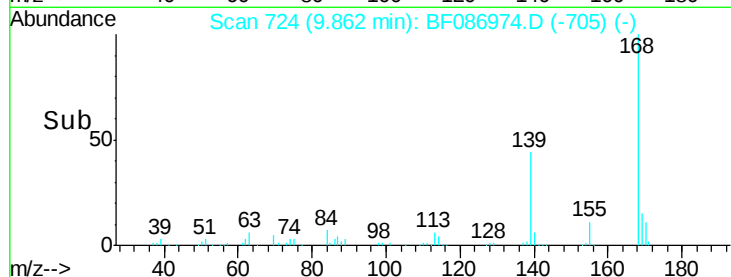
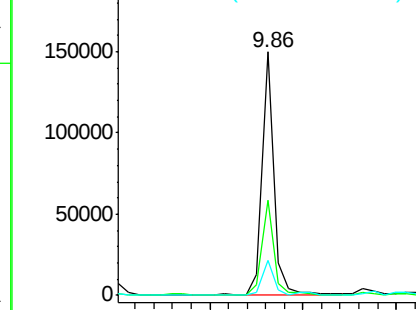
#54
Dibenzofuran
Concen: 8.31 ng
RT: 9.86 min Scan# 724
Delta R.T. -0.08 min
Lab File: BF086974.D
Acq: 13 May 2016 14:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.0	31.4	47.0
169	14.3	10.7	16.1

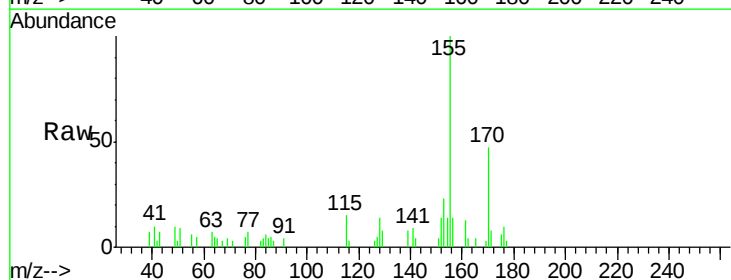


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

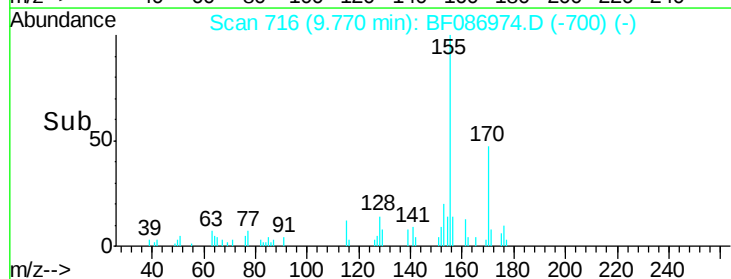
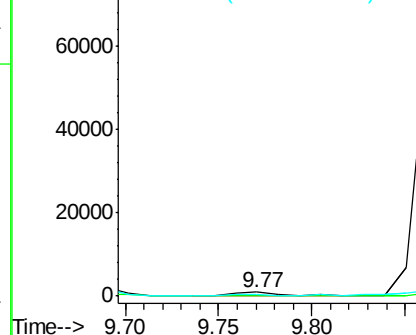


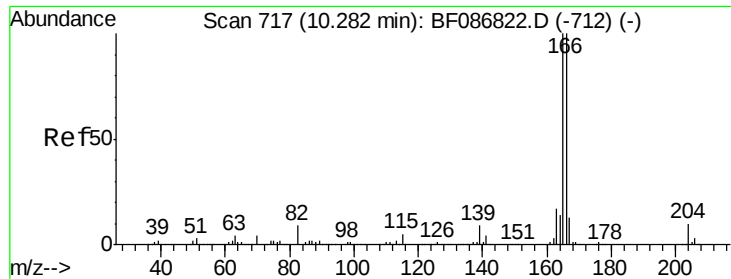
#55
4-Nitrophenol
Concen: 5.22 ng
RT: 9.77 min Scan# 716
Delta R.T. -0.12 min
Lab File: BF086974.D
Acq: 13 May 2016 14:32

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	36.9	76.9#
65	49.7	64.0	104.0#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

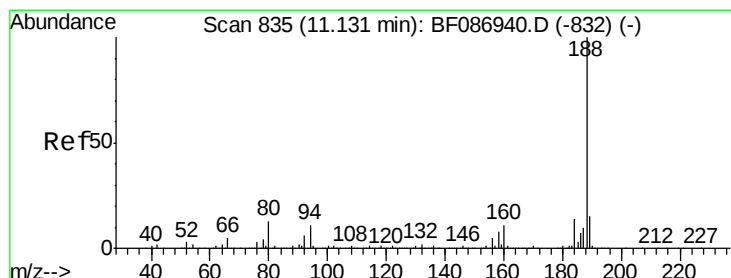
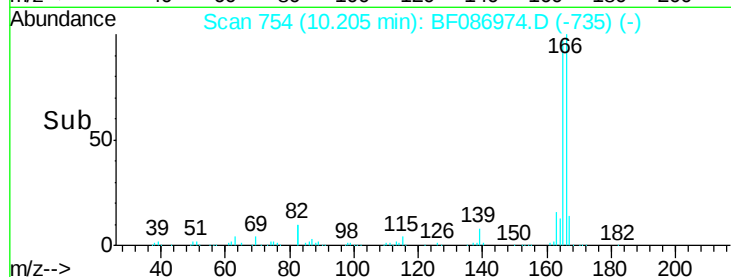
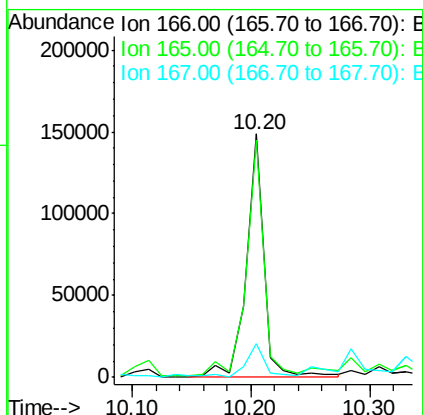
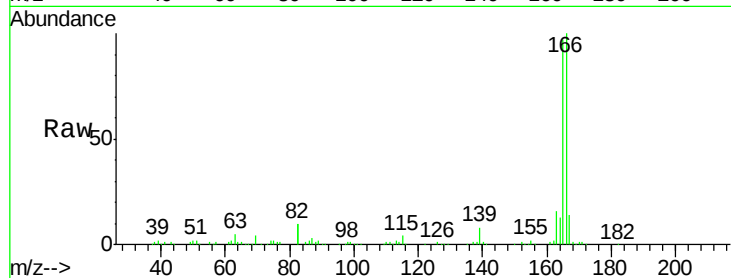




#57
 Fluorene
 Concen: 11.13 ng
 RT: 10.20 min Scan# 754
 Delta R.T. -0.08 min
 Lab File: BF086974.D
 Acq: 13 May 2016 14:32

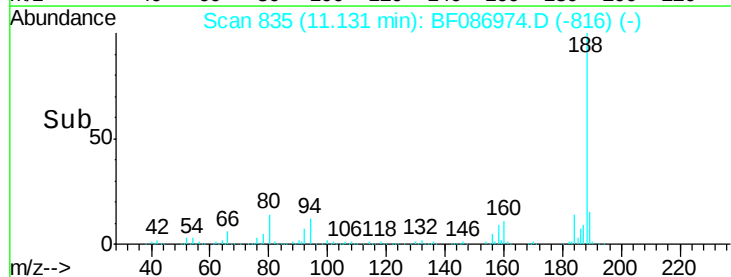
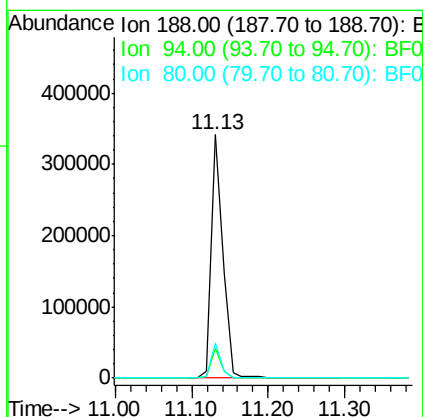
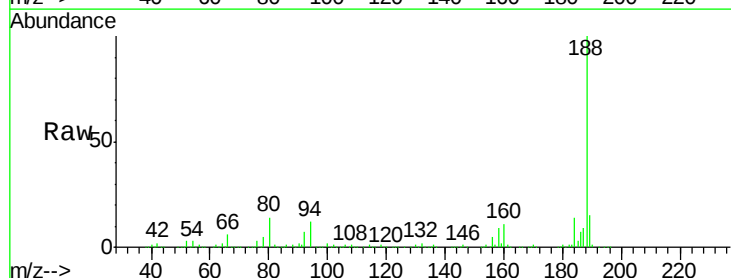
Instrument :
 BNA_F
 ClientSampleId :

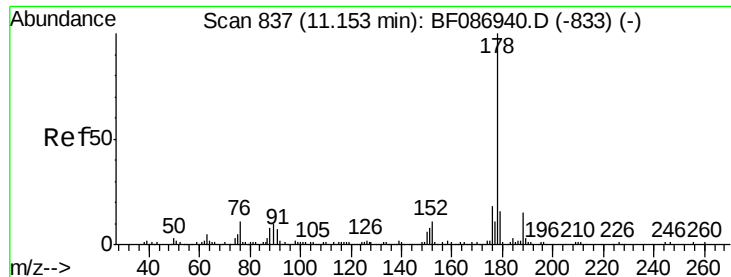
Tot Ion	Ratio	Lower	Upper
166	100		
165	97.3	79.0	118.6
167	13.9	10.6	15.8



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.13 min Scan# 835
 Delta R.T. -0.08 min
 Lab File: BF086974.D
 Acq: 13 May 2016 14:32

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.3	6.8	10.2#
80	14.1	7.1	10.7#





#70

Phenanthrene

Concen: 35.36 ng

RT: 11.15 min Scan# 837

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

Instrument :

BNA_F

ClientSampleId :

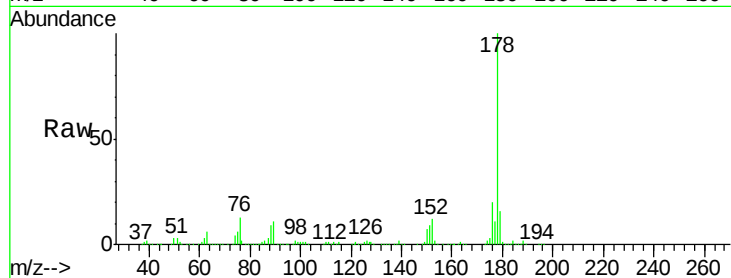
Tot Ion:178 Resp: 667585

Ion Ratio Lower Upper

178 100

176 20.1 16.0 24.0

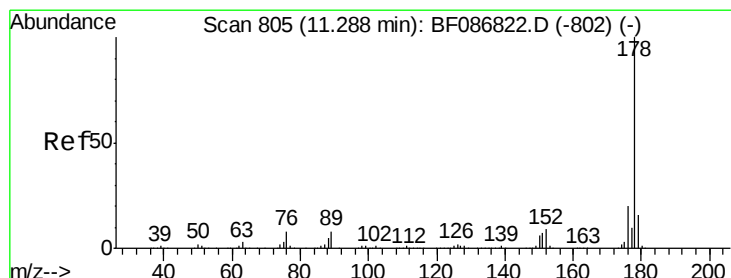
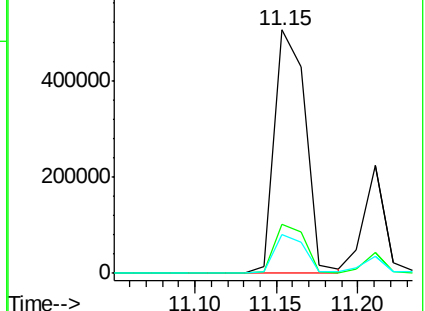
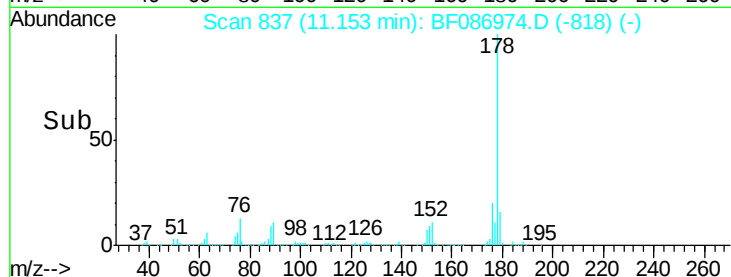
179 15.8 12.6 18.8



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: 11.33 ng

RT: 11.21 min Scan# 842

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

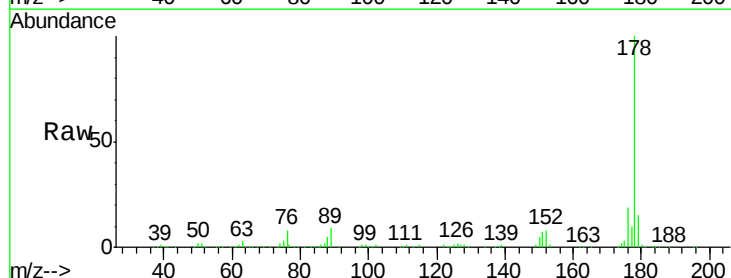
Tgt Ion:178 Resp: 218694

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

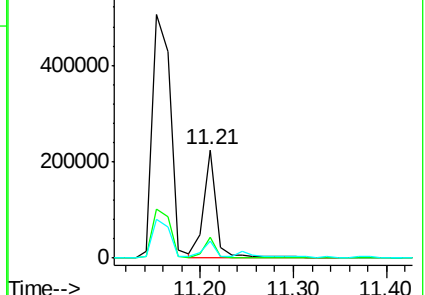
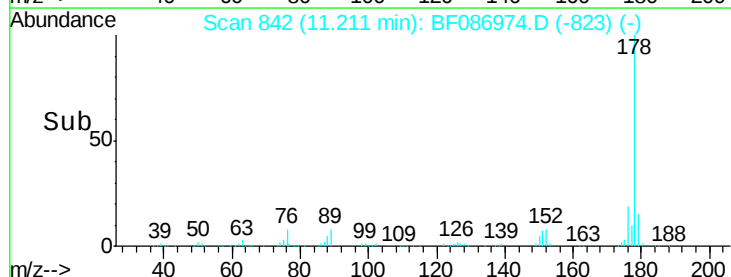
179 15.3 12.7 19.1

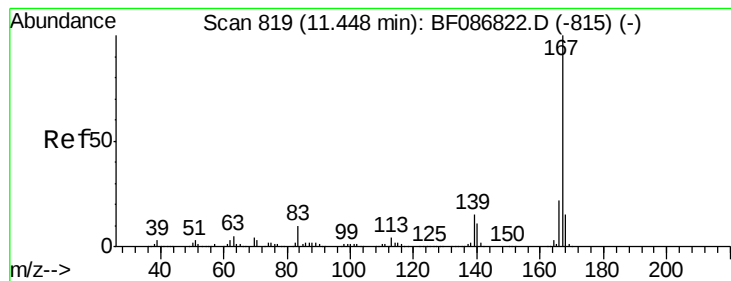


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.89 ng

RT: 11.37 min Scan# 856

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

Instrument :

BNA_F

ClientSampleId :

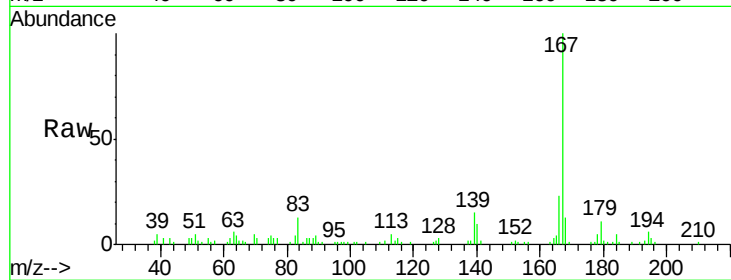
Tot Ion:167 Resp: 47940

Ion Ratio Lower Upper

167 100

166 22.8 17.7 26.5

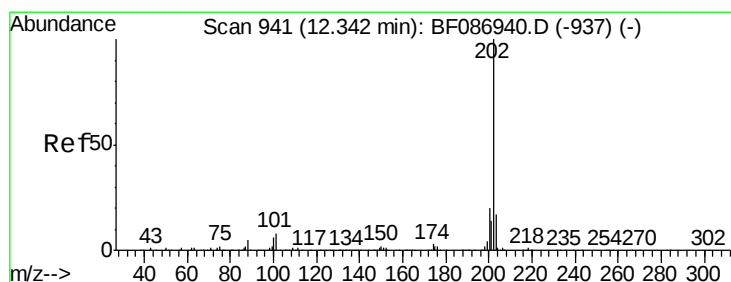
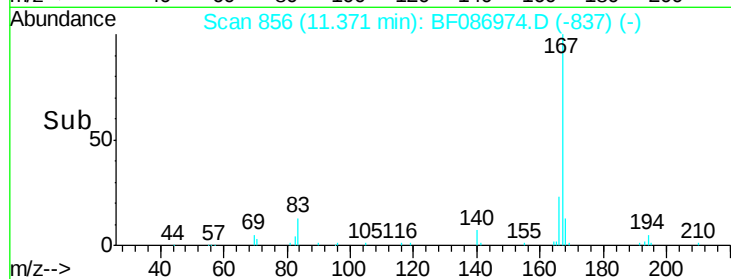
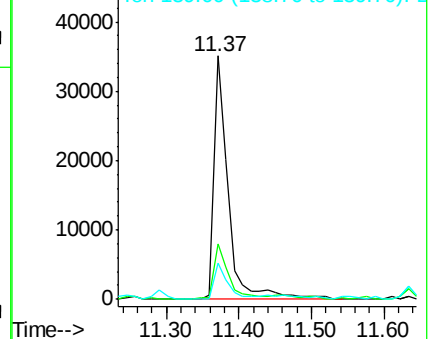
139 14.7 10.8 16.2



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: 27.14 ng

RT: 12.34 min Scan# 941

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

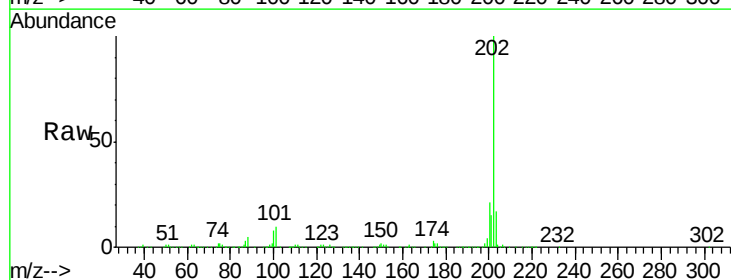
Tgt Ion:202 Resp: 526967

Ion Ratio Lower Upper

202 100

101 10.4 0.0 35.4

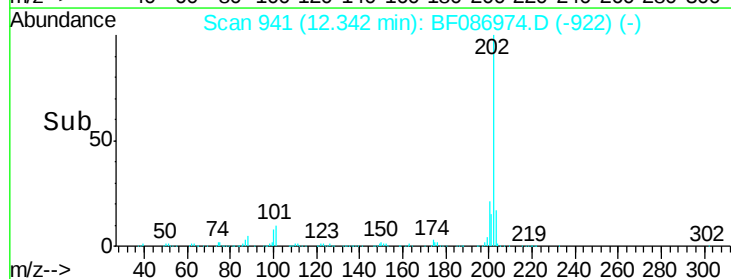
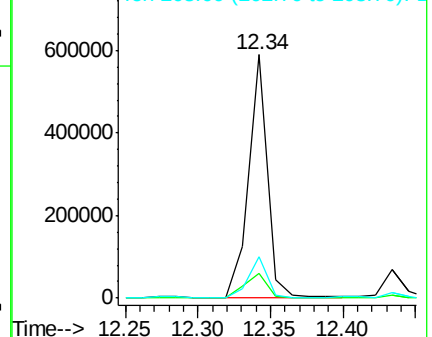
203 17.1 0.0 38.1

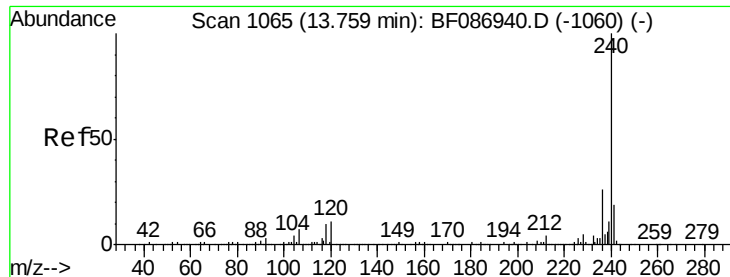


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.76 min Scan# 1065

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

Instrument :

BNA_F

ClientSampleId :

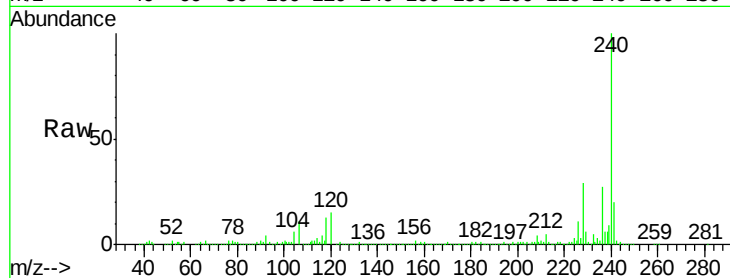
Tot Ion:240 Resp: 323093

Ion Ratio Lower Upper

240 100

120 14.8 11.2 16.8

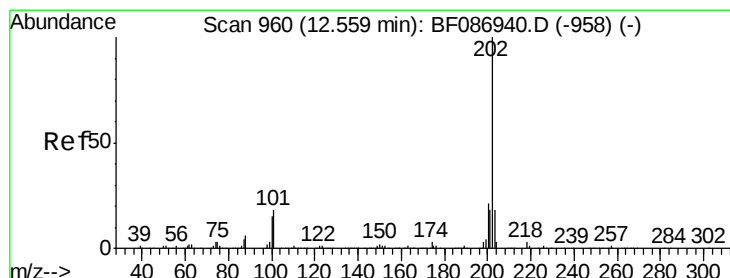
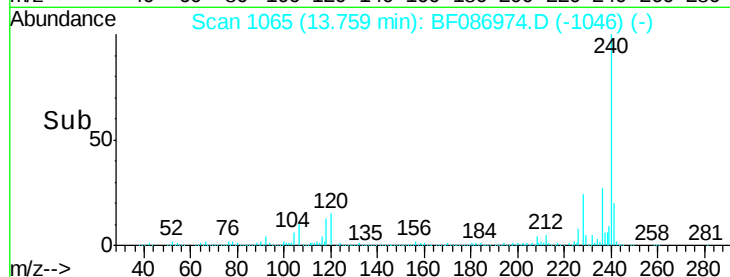
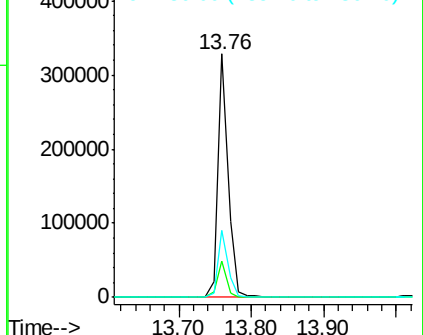
236 27.4 21.2 31.8



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



#77

Pyrene

Concen: 19.56 ng

RT: 12.57 min Scan# 961

Delta R.T. -0.07 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

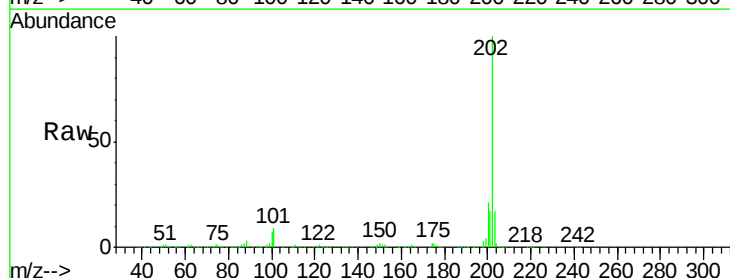
Tgt Ion:202 Resp: 483848

Ion Ratio Lower Upper

202 100

200 20.6 17.7 26.5

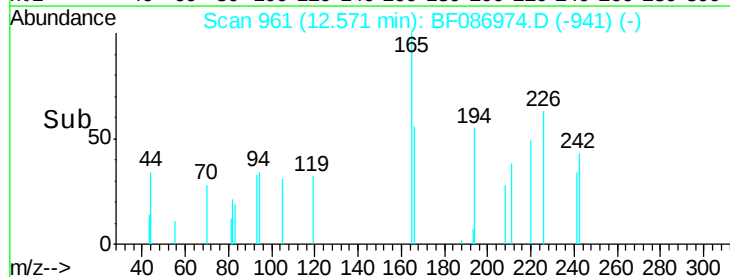
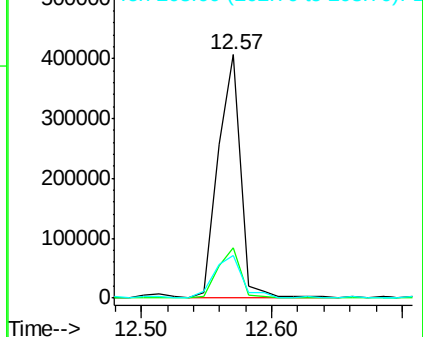
203 17.3 14.2 21.4

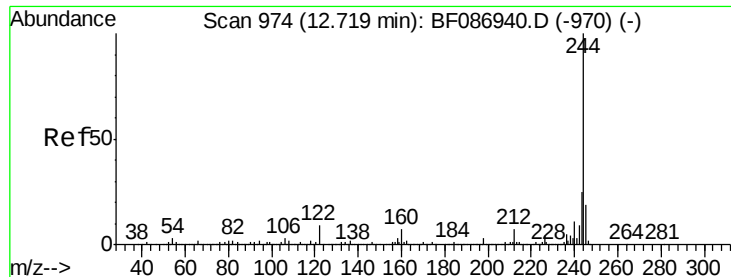


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 5.61 ng

RT: 12.72 min Scan# 974

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

Instrument :

BNA_F

ClientSampleId :

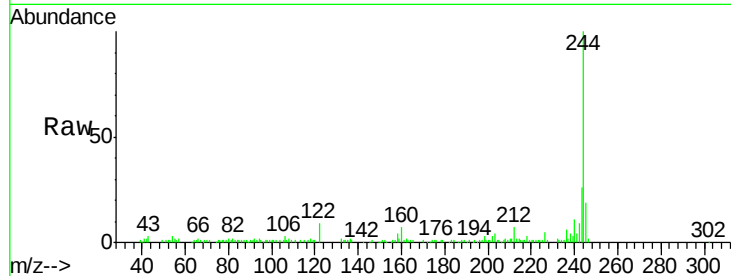
Tot Ion:244 Resp: 85484

Ion Ratio Lower Upper

244 100

212 7.3 6.2 9.2

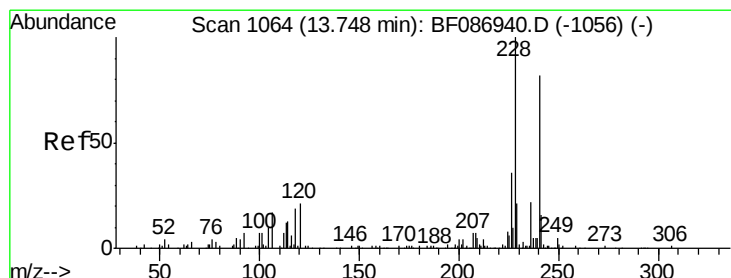
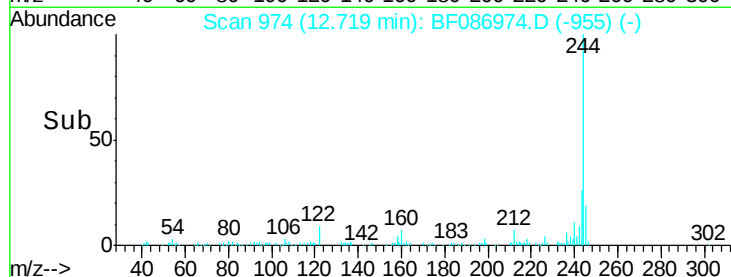
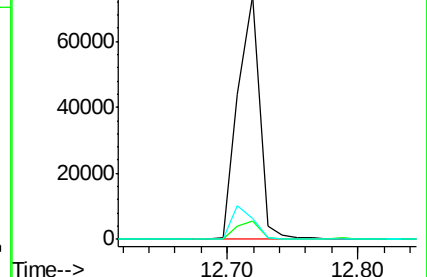
122 8.7 12.0 18.0#



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: 11.98 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.08 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

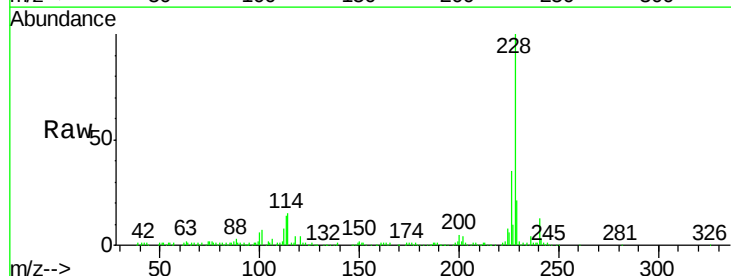
Tgt Ion:228 Resp: 217310

Ion Ratio Lower Upper

228 100

226 35.2 22.5 33.7#

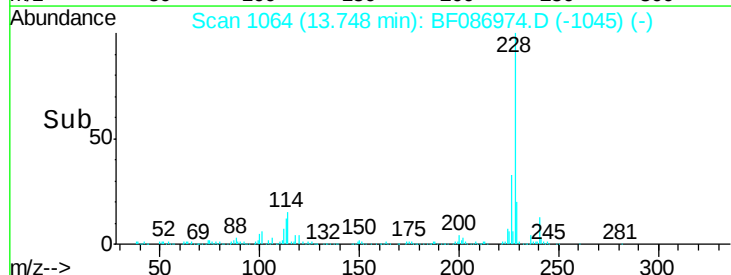
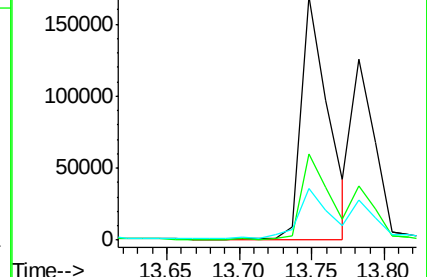
229 21.0 16.6 25.0

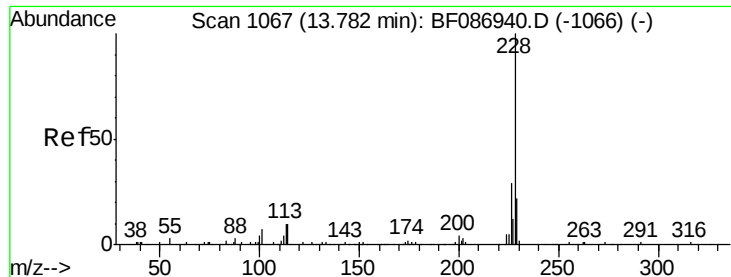


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.78 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.11 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

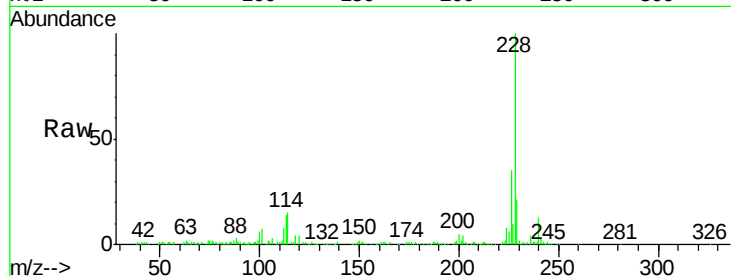
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 217310

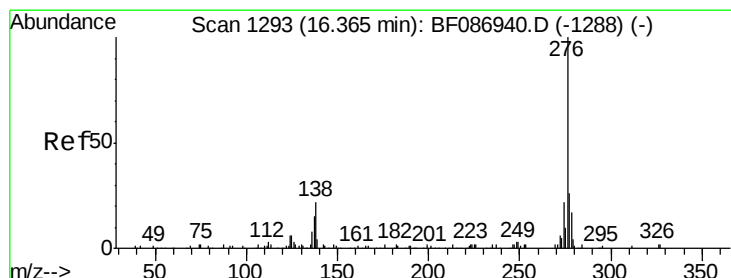
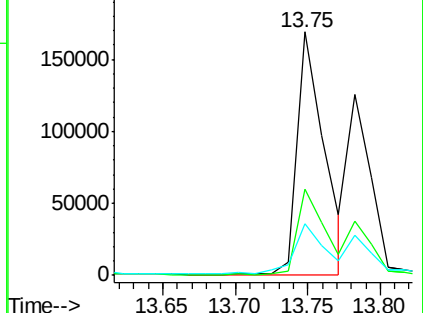
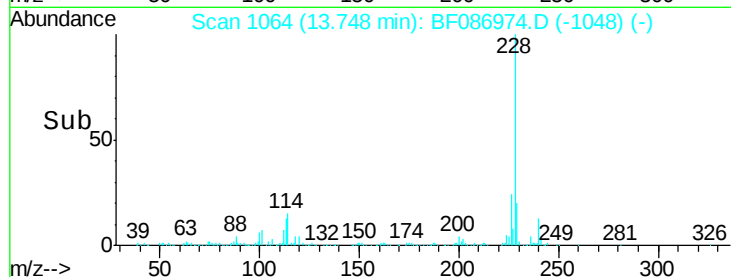
Ion	Ratio	Lower	Upper
228	100		
226	35.2	24.4	36.6
229	21.0	15.8	23.8



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.84 ng

RT: 16.37 min Scan# 1293

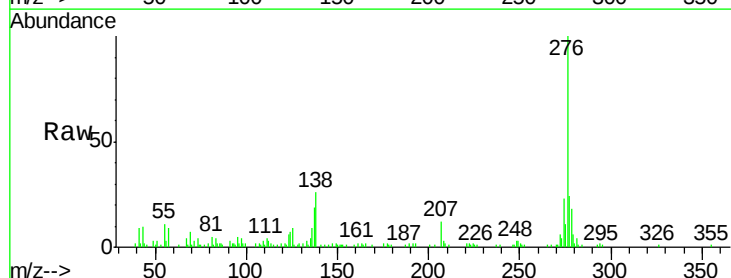
Delta R.T. -0.13 min

Lab File: BF086974.D

Acq: 13 May 2016 14:32

Tgt Ion:276 Resp: 58908

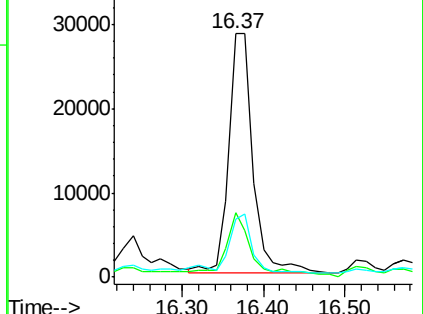
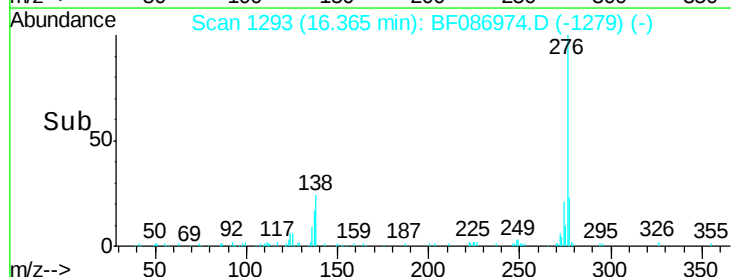
Ion	Ratio	Lower	Upper
276	100		
138	28.8	25.6	38.4
277	26.9	20.5	30.7

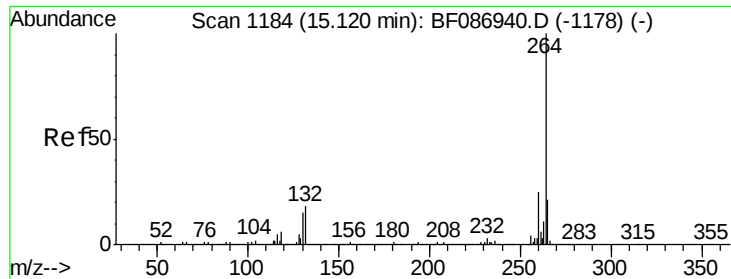


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

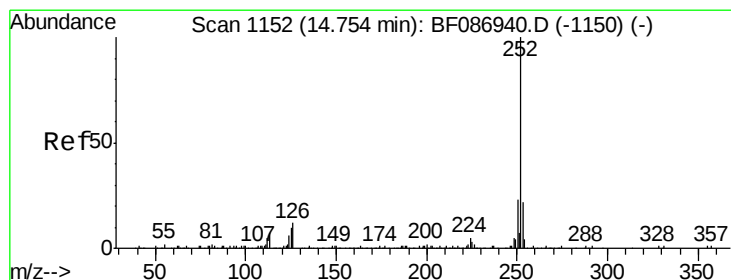
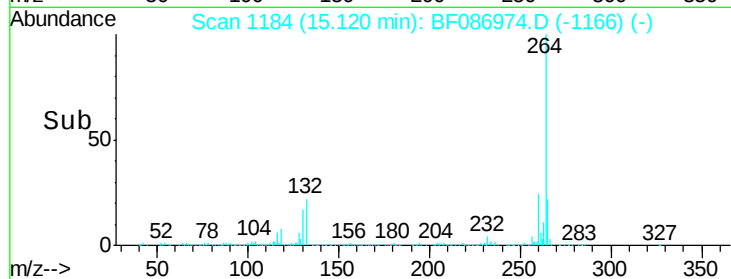
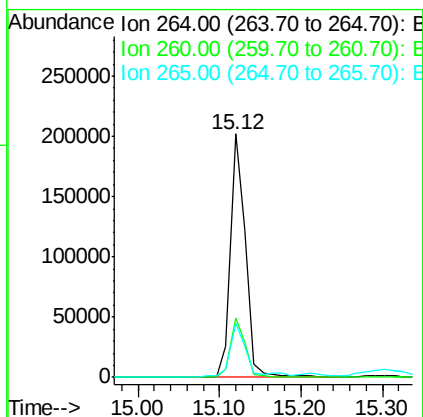
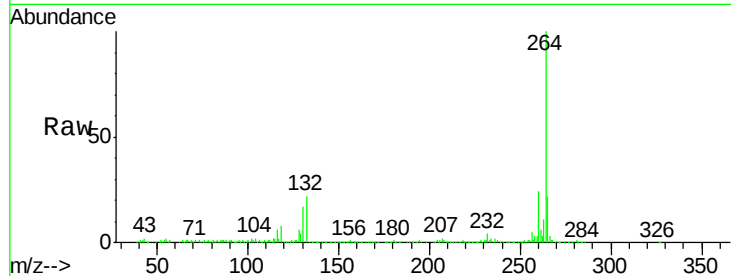




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1184
Delta R.T. -0.09 min
Lab File: BF086974.D
Acq: 13 May 2016 14:32

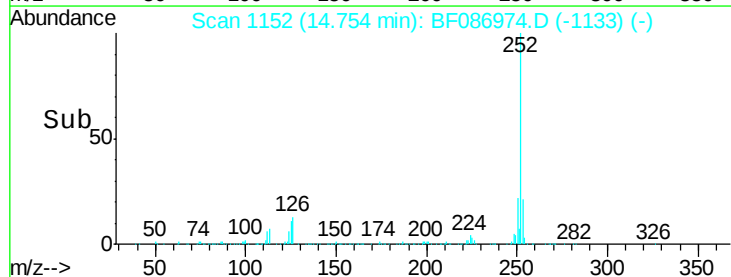
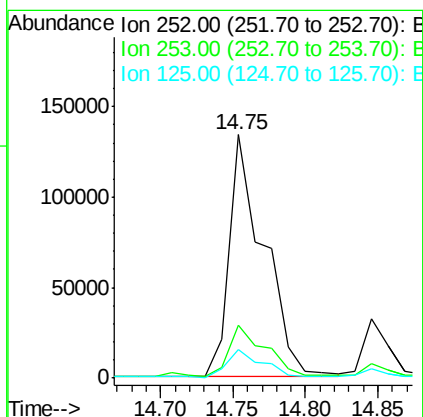
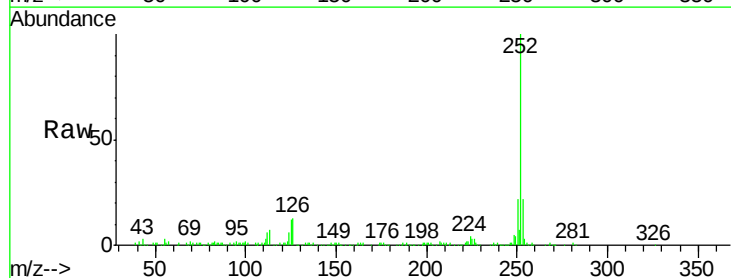
Instrument :
BNA_F
ClientSampleId :

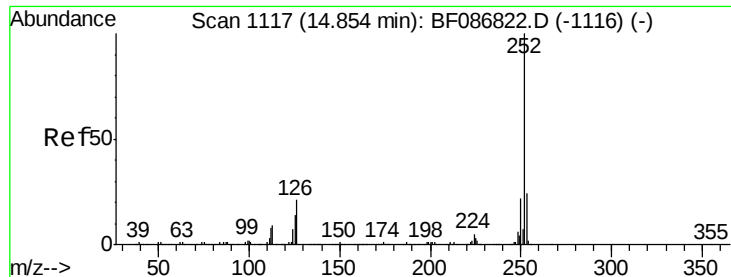
Tot Ion:264 Resp: 257930
Ion Ratio Lower Upper
264 100
260 24.2 19.5 29.3
265 22.1 17.3 25.9



#87
Benzo(b)fluoranthene
Concen: 13.21 ng
RT: 14.75 min Scan# 1152
Delta R.T. -0.08 min
Lab File: BF086974.D
Acq: 13 May 2016 14:32

Tgt Ion:252 Resp: 221361
Ion Ratio Lower Upper
252 100
253 21.9 17.8 26.6
125 11.5 11.4 17.0

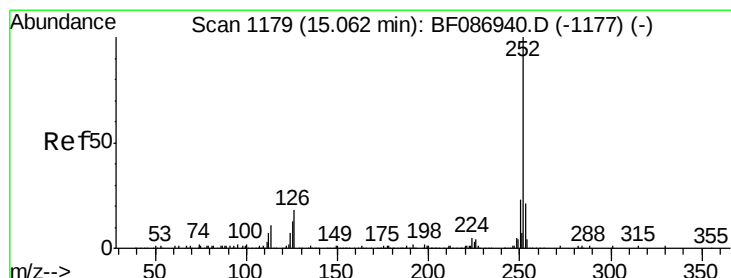
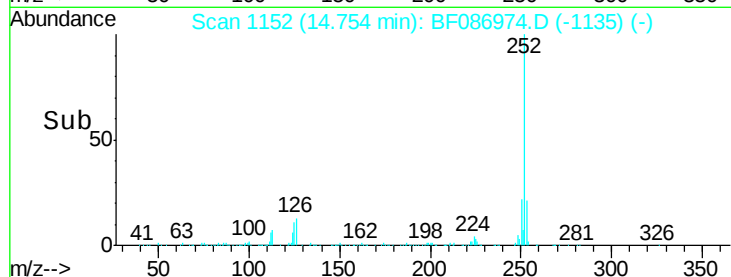
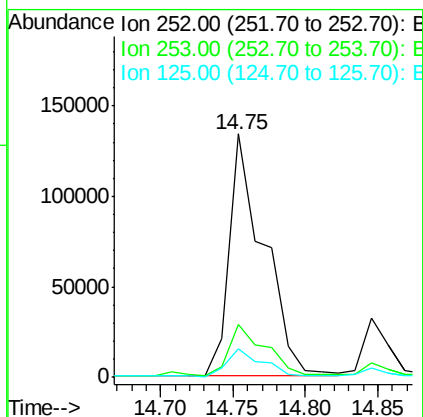
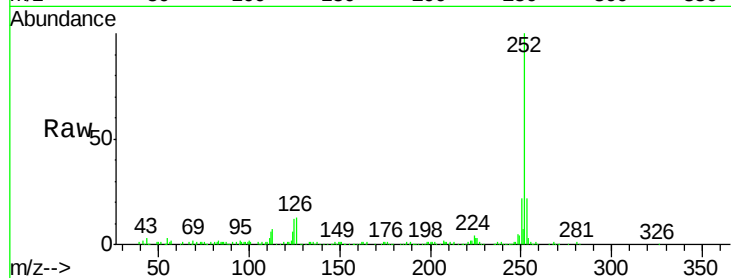




#88
Benzo(k)fluoranthene
Concen: 16.13 ng
RT: 14.75 min Scan# 1152
Delta R.T. -0.10 min
Lab File: BF086974.D
Acq: 13 May 2016 14:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 221361
Ion Ratio Lower Upper
252 100
253 21.9 17.8 26.6
125 11.5 9.1 13.7



#89
Benzo(a)pyrene
Concen: 5.41 ng
RT: 15.02 min Scan# 1175
Delta R.T. -0.13 min
Lab File: BF086974.D
Acq: 13 May 2016 14:32

Tgt Ion:252 Resp: 78211
Ion Ratio Lower Upper
252 100
253 22.2 17.2 25.8
125 13.1 9.0 13.6

