

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051116\
 Data File : BF086923.D
 Acq On : 12 May 2016 9:48
 Operator : UM/SJ
 Sample : H2961-04DL 25X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 12 15:22:43 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 09 16:04:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	126772	20.00	ng	-0.07
21) Naphthalene-d8	7.92	136	506348	20.00	ng	-0.07
38) Acenaphthene-d10	9.67	164	200451	20.00	ng	-0.07
63) Phenanthrene-d10	11.14	188	308380	20.00	ng	-0.07
75) Chrysene-d12	13.77	240	303558	20.00	ng	-0.07
86) Perylene-d12	15.13	264	226756	20.00	ng	-0.08

System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	29042	3.88	ng	-0.05
7) Phenol-d6	6.31	99	40714	4.07	ng	-0.05
23) Nitrobenzene-d5	7.20	82	30320	3.01	ng	-0.07
41) 2,4,6-Tribromophenol	10.46	330	4959	2.34	ng	-0.07
44) 2-Fluorobiphenyl	8.99	172	49072	4.11	ng	-0.07
78) Terphenyl-d14	12.73	244	35492	2.48	ng	-0.07

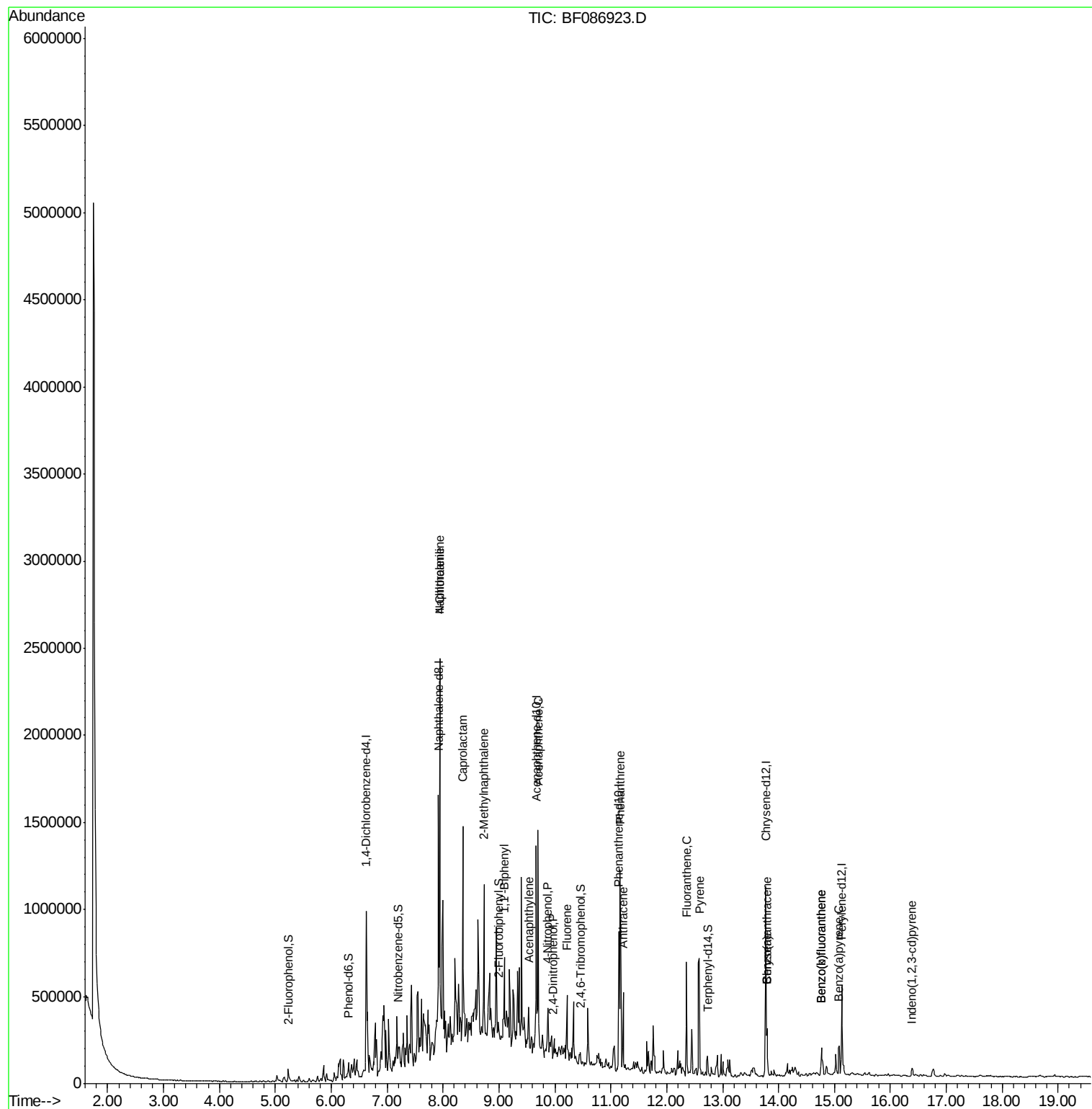
Target Compounds				Qvalue		
31) Naphthalene	7.94	128	824619	32.51	ng	99
33) 4-Chloroaniline	7.94	127	118696	12.04	ng	# 34
35) Caprolactam	8.35	113	20035	8.61	ng	# 1
37) 2-Methylnaphthalene	8.73	142	203045	13.69	ng	95
45) 1,1'-Biphenyl	9.10	154	68290	4.28	ng	97
48) Acenaphthylene	9.53	152	54097	2.94	ng	# 95
51) Acenaphthene	9.70	154	252754	22.11	ng	97
53) 2,4-Dinitrophenol	9.96	184	1153	8.33	ng	# 84
55) 4-Nitrophenol	9.87	139	11448	9.34	ng	# 36
57) Fluorene	10.22	166	120283	9.61	ng	99
60) 4-Chlorophenyl-phenylether	10.16	204	242	Below Cal		# 1
70) Phenanthrene	11.16	178	531779	32.31	ng	99
71) Anthracene	11.22	178	185698	11.03	ng	98
74) Fluoranthene	12.35	202	278241	16.44	ng	92
77) Pyrene	12.58	202	401595	17.28	ng	98
80) Benzo(a)anthracene	13.79	228	92384	5.42	ng	97
82) Chrysene	13.79	228	92384	5.33	ng	99
85) Indeno(1,2,3-cd)pyrene	16.39	276	32995	2.29	ng	# 92
87) Benzo(b)fluoranthene	14.77	252	104166	7.07	ng	98
88) Benzo(k)fluoranthene	14.77	252	104166	8.63	ng	98
89) Benzo(a)pyrene	15.09	252	89694	7.06	ng	98

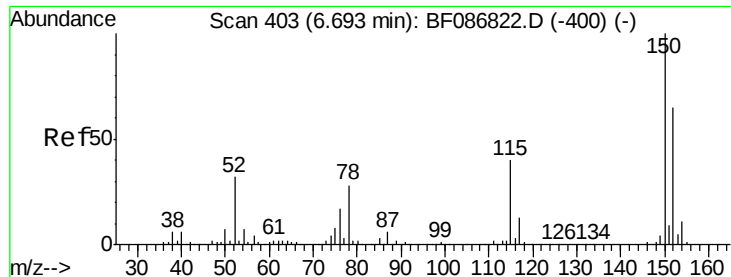
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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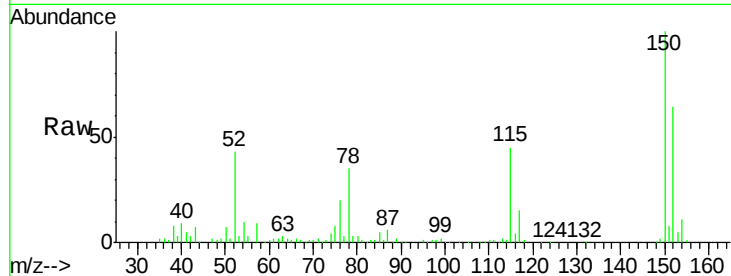


#1

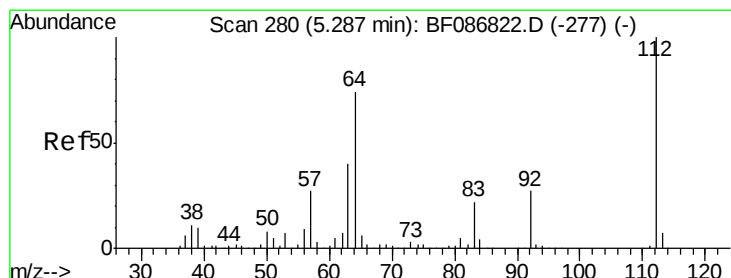
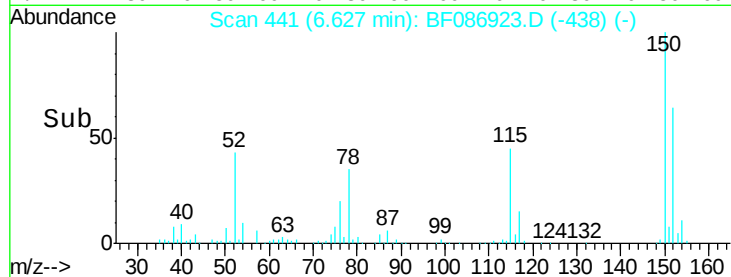
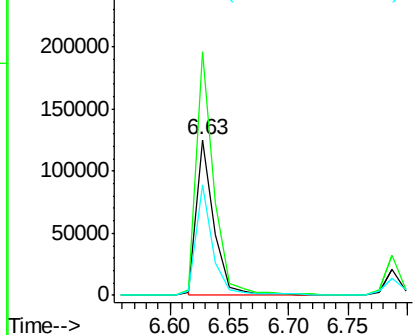
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.63 min Scan# 441
Delta R.T. -0.07 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 126772
Ion Ratio Lower Upper
152 100
150 156.8 125.8 188.6
115 71.1 51.5 77.3



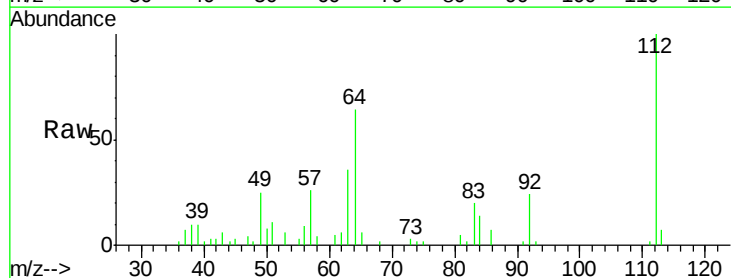
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



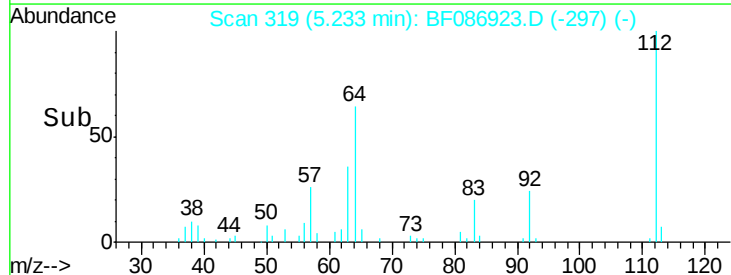
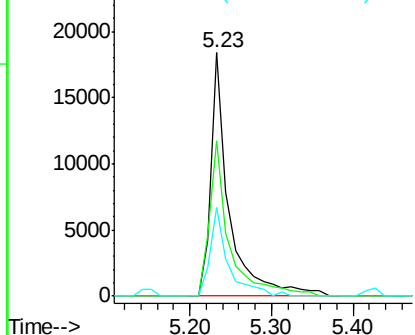
#5

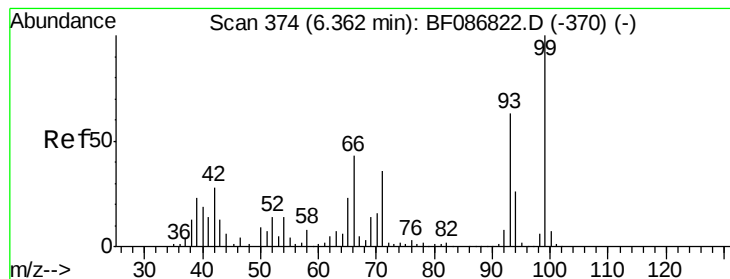
2-Fluorophenol
Concen: 3.88 ng
RT: 5.23 min Scan# 319
Delta R.T. -0.05 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Tgt Ion:112 Resp: 29042
Ion Ratio Lower Upper
112 100
64 63.6 52.1 78.1
63 36.4 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: 4.07 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.05 min

Lab File: BF086923.D

Acq: 12 May 2016 9:48

Instrument :

BNA_F

ClientSampleId :

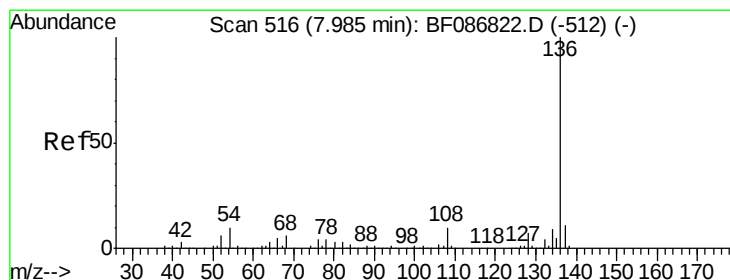
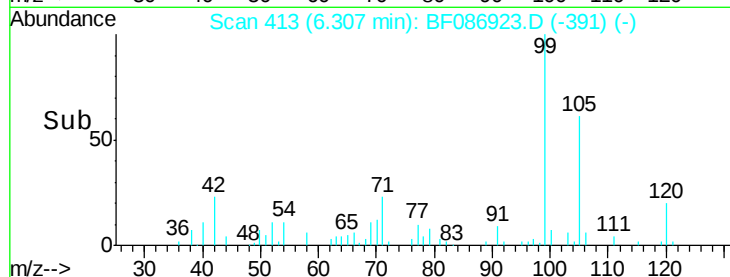
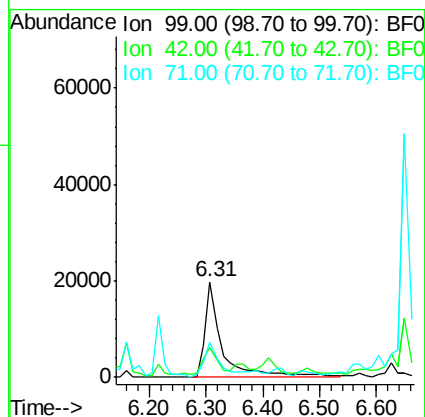
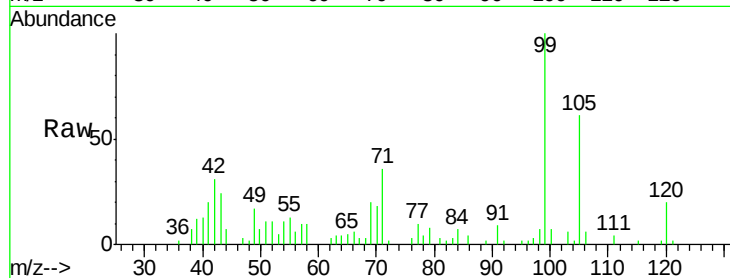
Tot Ion: 99 Resp: 40714

Ion Ratio Lower Upper

99 100

42 31.0 13.6 20.4#

71 36.2 24.6 36.8



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 554

Delta R.T. -0.07 min

Lab File: BF086923.D

Acq: 12 May 2016 9:48

Tgt Ion: 136 Resp: 506348

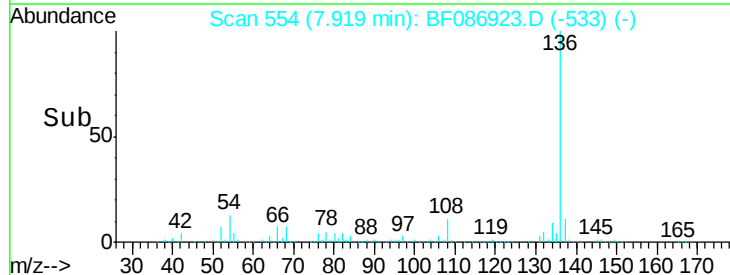
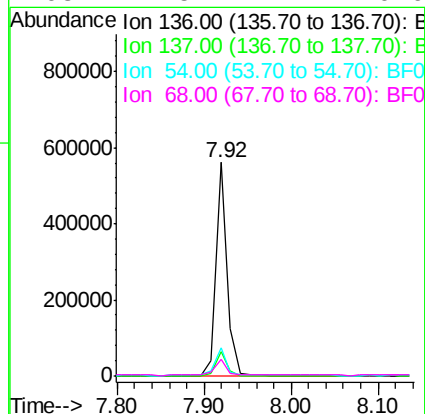
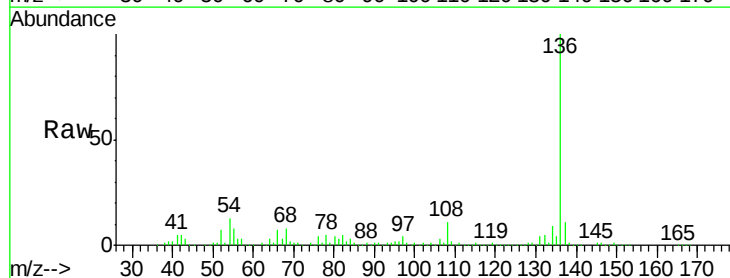
Ion Ratio Lower Upper

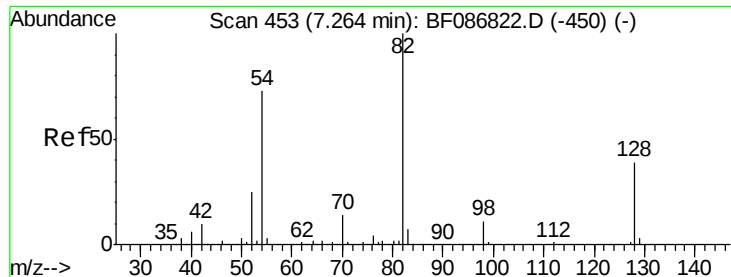
136 100

137 11.2 8.8 13.2

54 13.4 5.0 7.4#

68 7.5 4.4 6.6#





#23

Nitrobenzene-d5

Concen: 3.01 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.07 min

Lab File: BF086923.D

Acq: 12 May 2016 9:48

Instrument :

BNA_F

ClientSampleId :

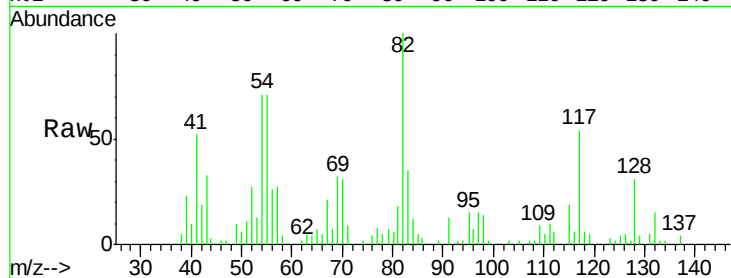
Tot Ion: 82 Resp: 30320

Ion Ratio Lower Upper

82 100

128 30.5 40.6 61.0#

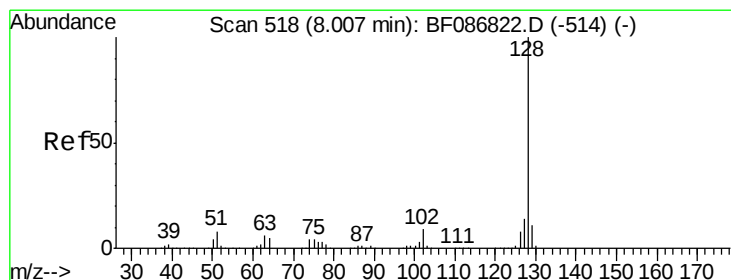
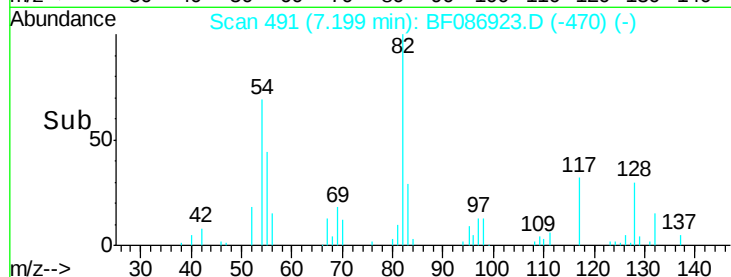
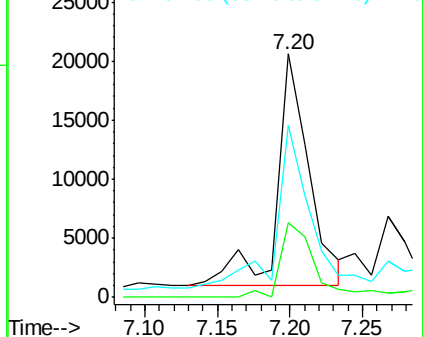
54 70.6 38.1 57.1#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 32.51 ng

RT: 7.94 min Scan# 556

Delta R.T. -0.07 min

Lab File: BF086923.D

Acq: 12 May 2016 9:48

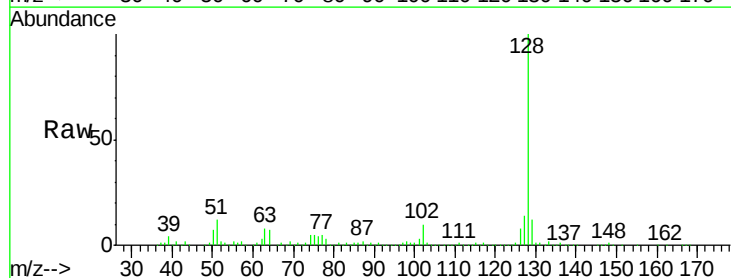
Tgt Ion: 128 Resp: 824619

Ion Ratio Lower Upper

128 100

129 11.6 8.6 13.0

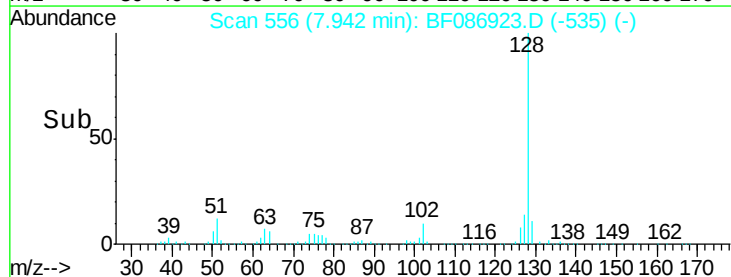
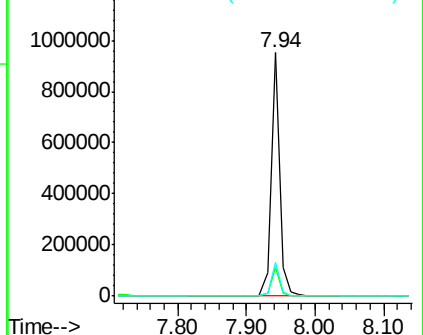
127 13.8 10.8 16.2

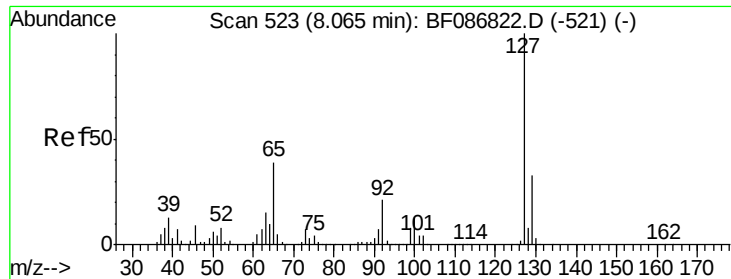


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

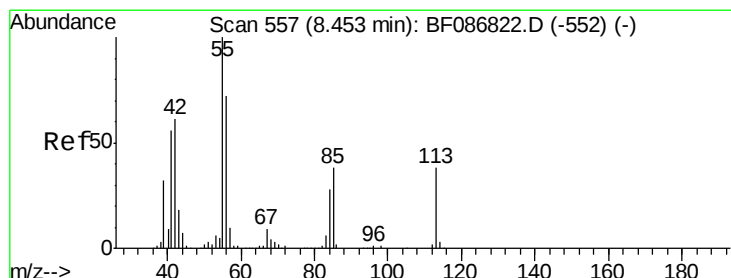
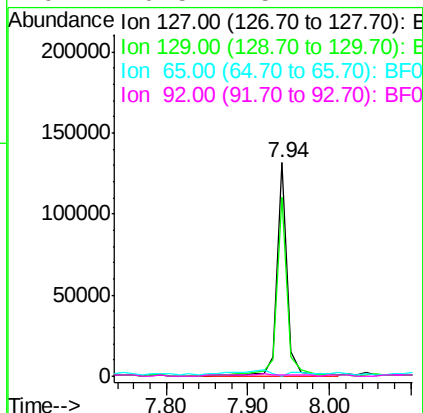
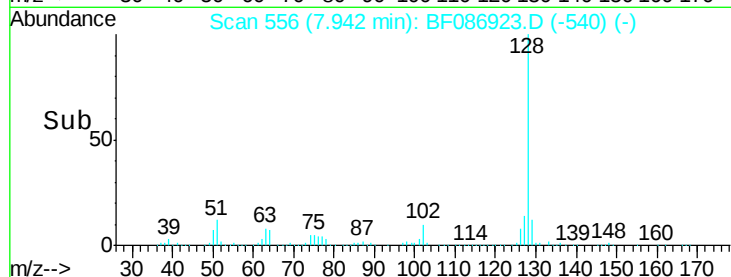
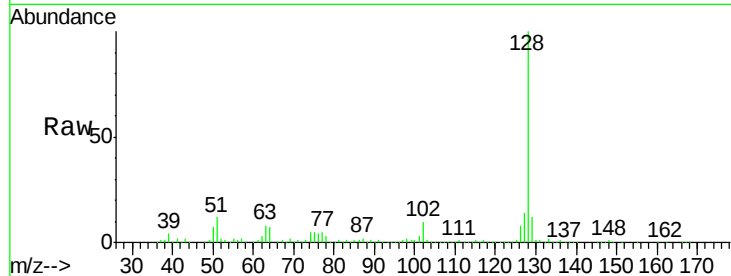




#33
4-Chloroaniline
Concen: 12.04 ng
RT: 7.94 min Scan# 556
Delta R.T. -0.12 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

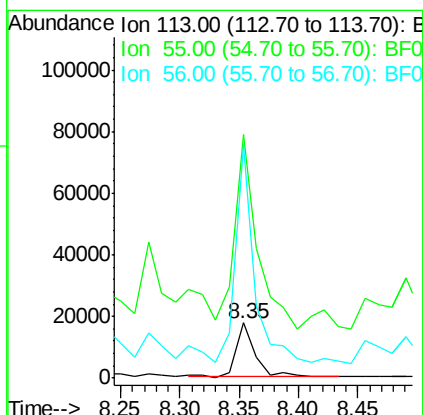
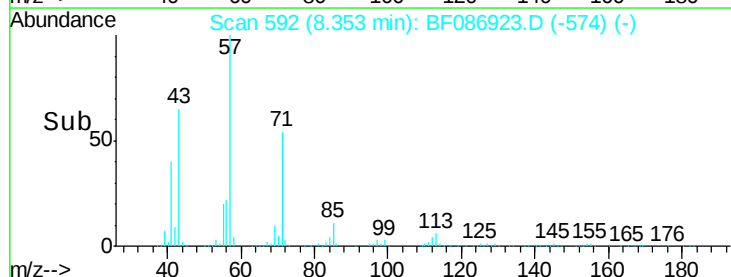
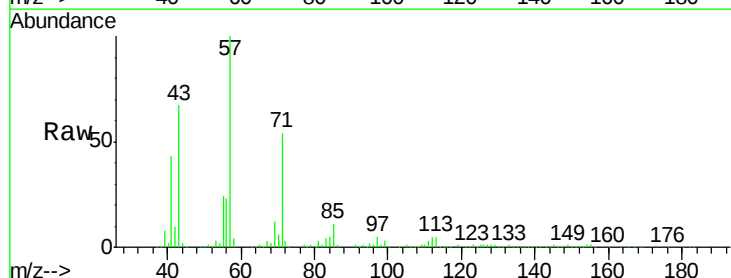
Instrument :
BNA_F
ClientSampleId :

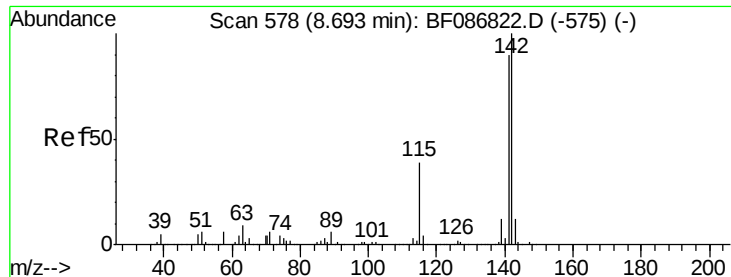
Tot Ion:	127	Resp:	118696
Ion	Ratio	Lower	Upper
127	100		
129	83.9	26.2	39.4#
65	0.0	23.0	34.4#
92	0.5	15.1	22.7#



#35
Caprolactam
Concen: 8.61 ng
RT: 8.35 min Scan# 592
Delta R.T. -0.10 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Tgt Ion:	113	Resp:	20035
Ion	Ratio	Lower	Upper
113	100		
55	439.7	162.0	202.0#
56	422.3	115.3	155.3#

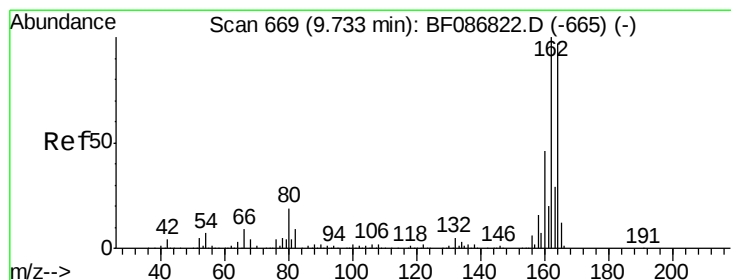
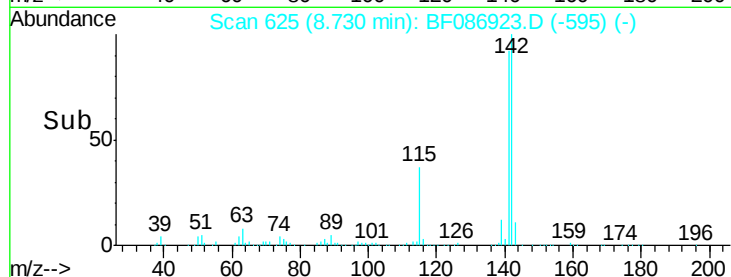
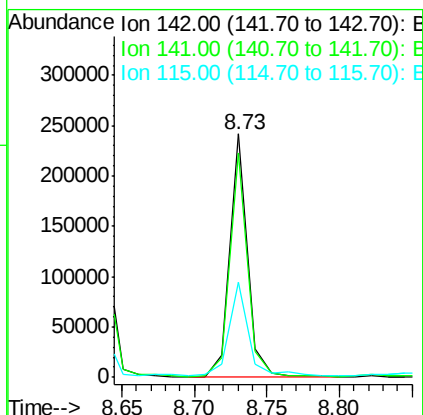
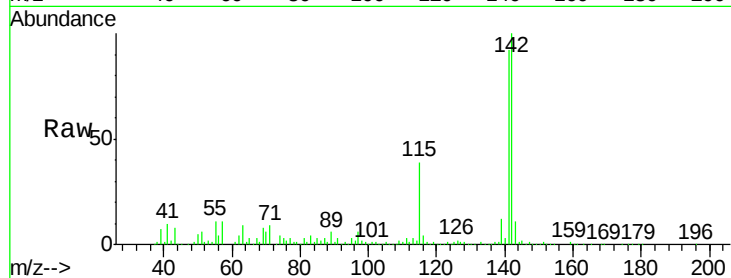




#37
2-Methylnaphthalene
Concen: 13.69 ng
RT: 8.73 min Scan# 625
Delta R.T. 0.04 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

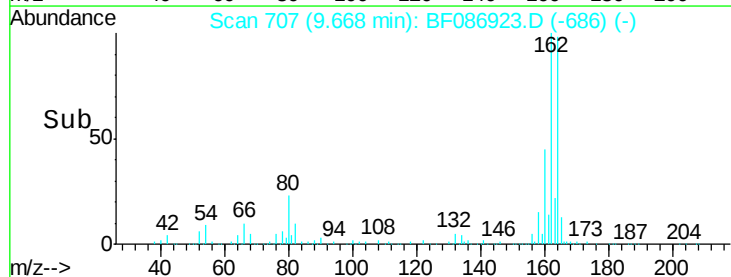
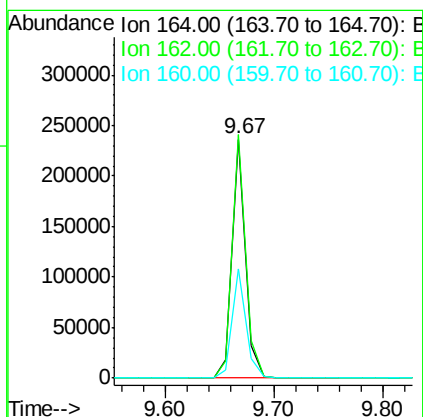
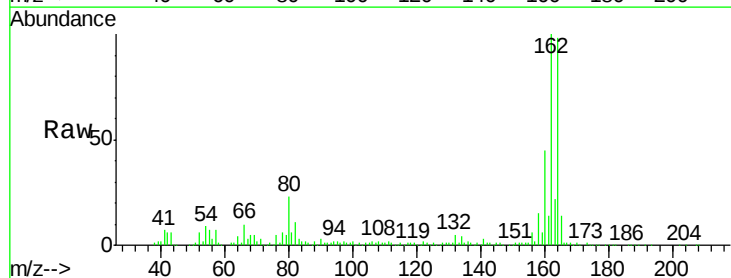
Instrument :
BNA_F
ClientSampleId :

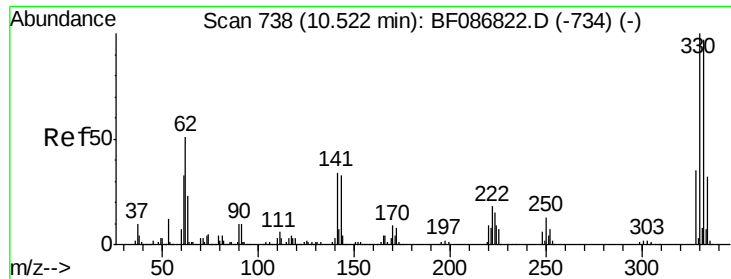
Tot Ion:142 Resp: 203045
Ion Ratio Lower Upper
142 100
141 92.0 71.0 106.6
115 39.1 26.6 39.8



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.67 min Scan# 707
Delta R.T. -0.07 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Tgt Ion:164 Resp: 200451
Ion Ratio Lower Upper
164 100
162 102.1 82.8 124.2
160 45.9 36.9 55.3

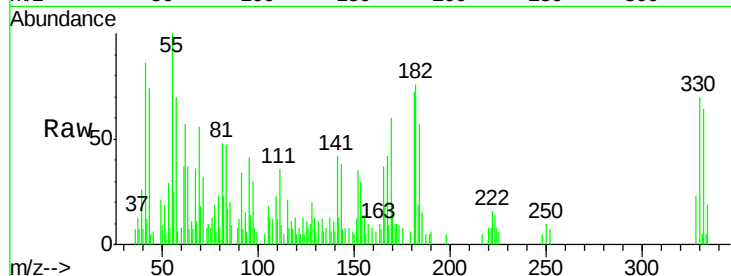




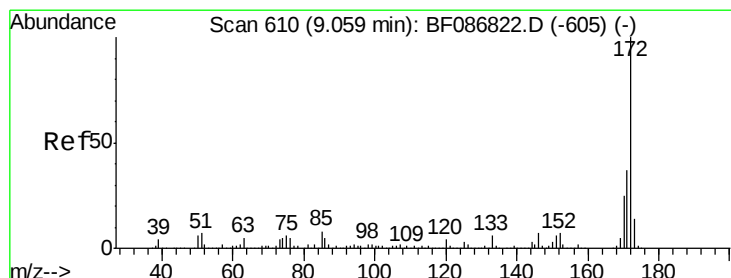
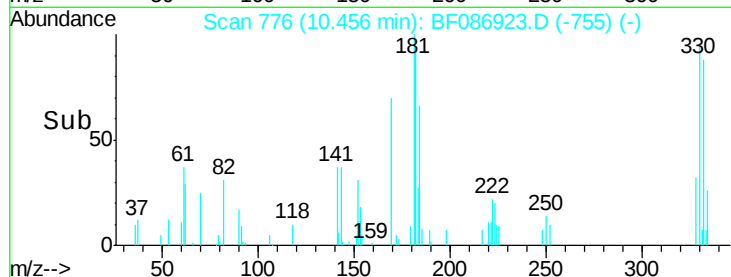
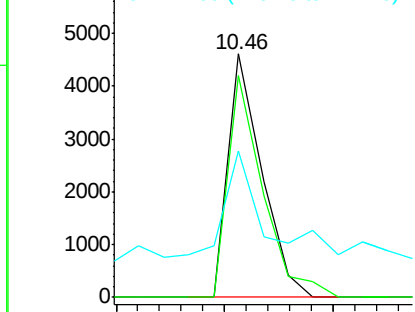
#41
 2,4,6-Tribromophenol
 Concen: 2.34 ng
 RT: 10.46 min Scan# 776
 Delta R.T. -0.07 min
 Lab File: BF086923.D
 Acq: 12 May 2016 9:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 4959
 Ion Ratio Lower Upper
 330 100
 332 94.5 79.0 118.4
 141 57.8 31.2 46.8#

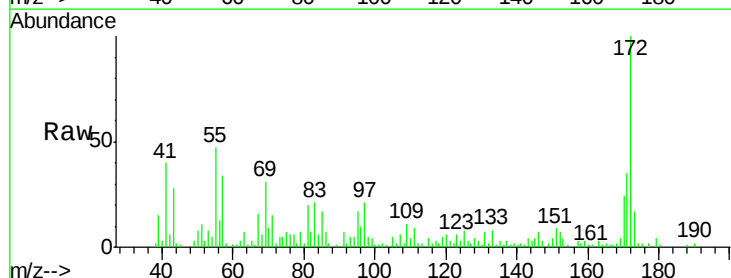


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

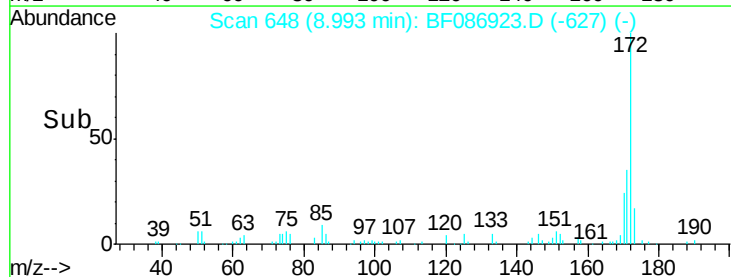
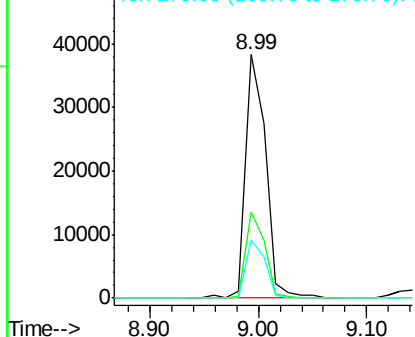


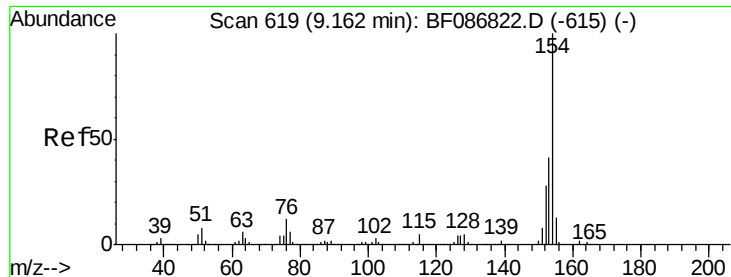
#44
 2-Fluorobiphenyl
 Concen: 4.11 ng
 RT: 8.99 min Scan# 648
 Delta R.T. -0.07 min
 Lab File: BF086923.D
 Acq: 12 May 2016 9:48

Tgt Ion:172 Resp: 49072
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.0 43.6
 170 23.9 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: 4.28 ng

RT: 9.10 min Scan# 657

Delta R.T. -0.07 min

Lab File: BF086923.D

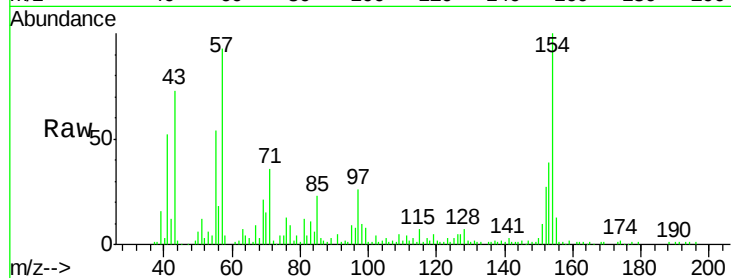
Acq: 12 May 2016 9:48

Instrument :

BNA_F

ClientSampled :

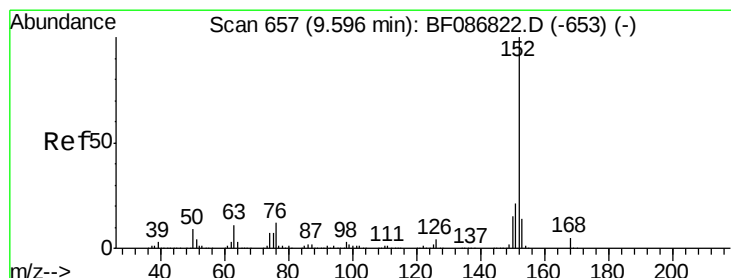
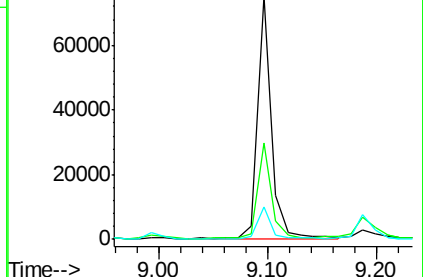
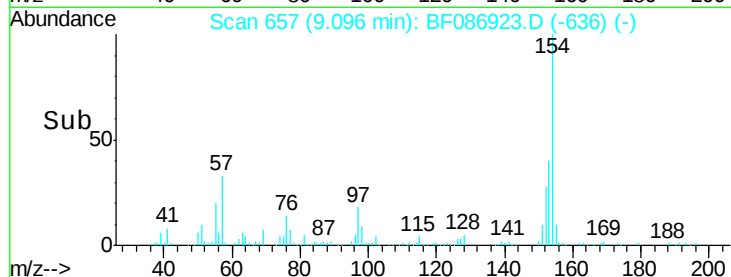
Tot Ion:154	Resp:	68290
Ion Ratio	Lower	Upper
154	100	
153	39.4	20.3 60.3
76	13.3	0.0 30.2



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: 2.94 ng

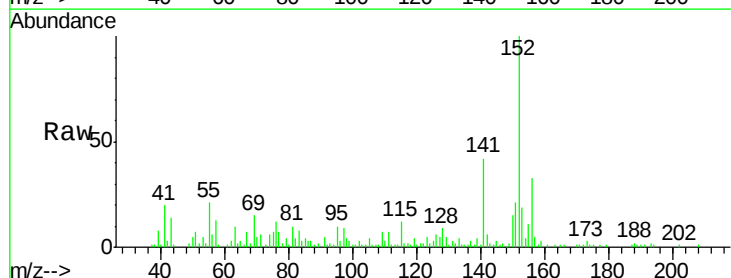
RT: 9.53 min Scan# 695

Delta R.T. -0.07 min

Lab File: BF086923.D

Acq: 12 May 2016 9:48

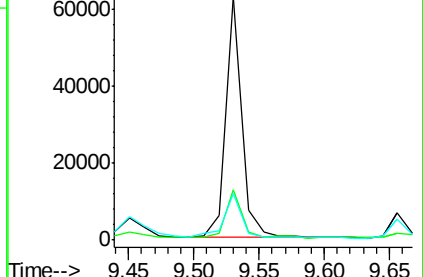
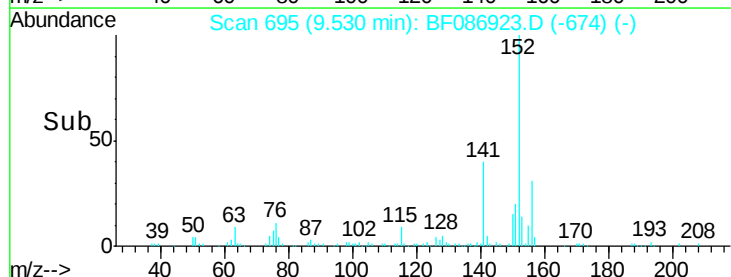
Tgt Ion:152	Resp:	54097
Ion Ratio	Lower	Upper
152	100	
151	20.9	16.8 25.2
153	19.1	10.9 16.3#

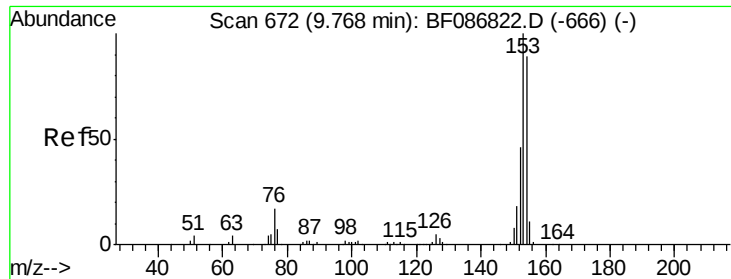


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

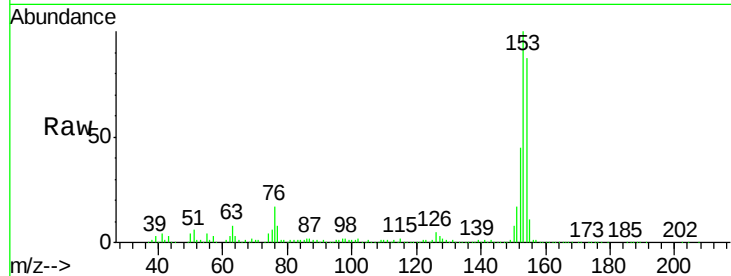




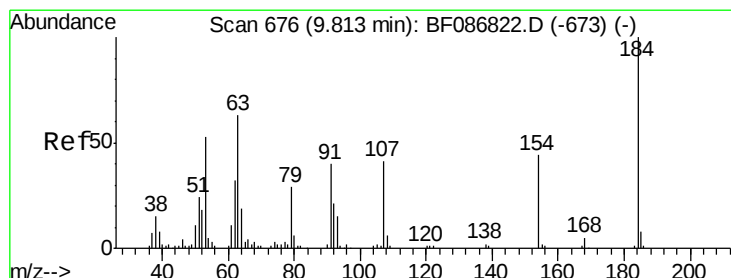
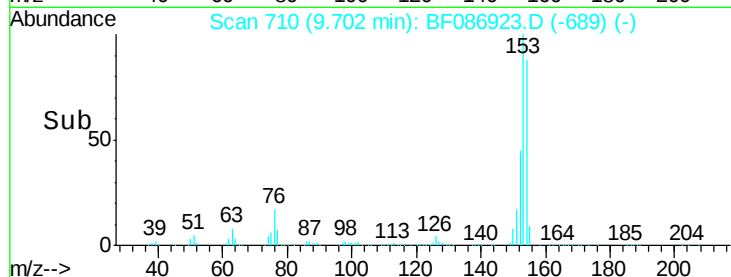
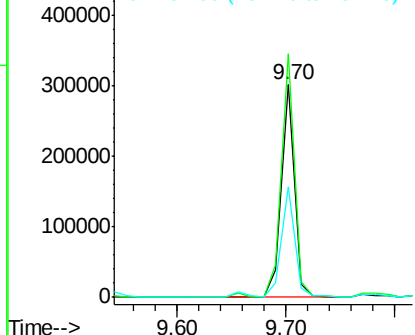
#51
Acenaphthene
Concen: 22.11 ng
RT: 9.70 min Scan# 710
Delta R.T. -0.07 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:154 Resp: 252754
Ion Ratio Lower Upper
154 100
153 114.6 89.8 134.6
152 51.9 43.4 65.0

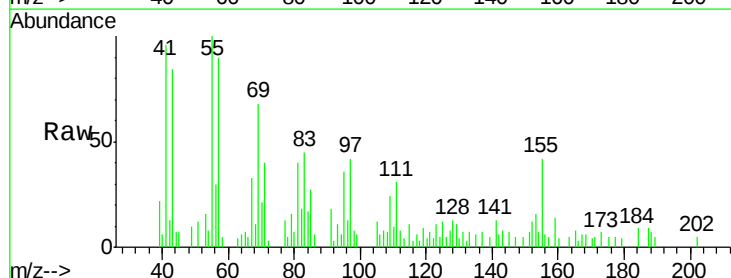


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

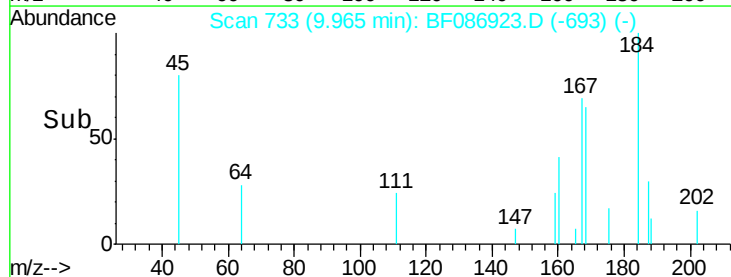
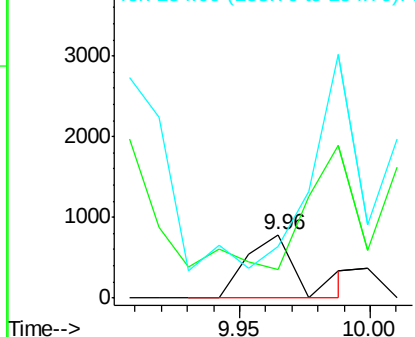


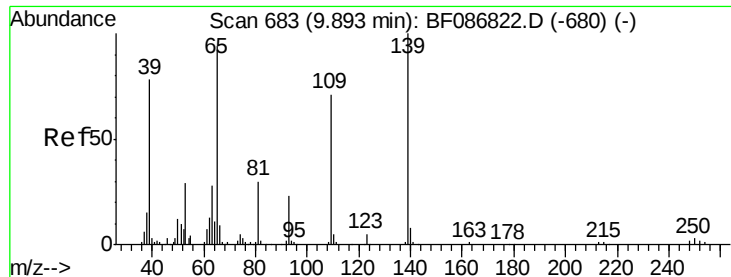
#53
2,4-Dinitrophenol
Concen: 8.33 ng
RT: 9.96 min Scan# 733
Delta R.T. 0.15 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Tgt Ion:184 Resp: 1153
Ion Ratio Lower Upper
184 100
63 45.2 55.8 83.8#
154 81.1 62.4 93.6



Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 154.00 (153.70 to 154.70): E





#55

4-Nitrophenol

Concen: 9.34 ng

RT: 9.87 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF086923.D

Acq: 12 May 2016 9:48

Instrument :

BNA_F

ClientSampleId :

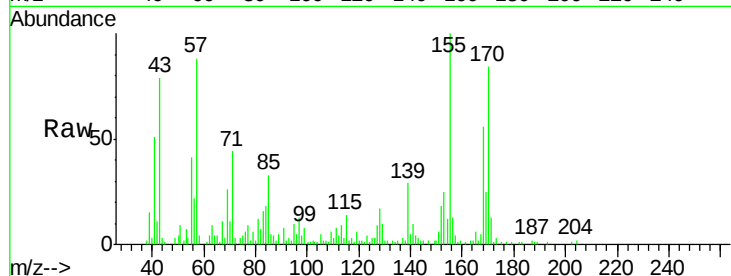
Tot Ion:139 Resp: 11448

Ion Ratio Lower Upper

139 100

109 22.1 36.9 76.9#

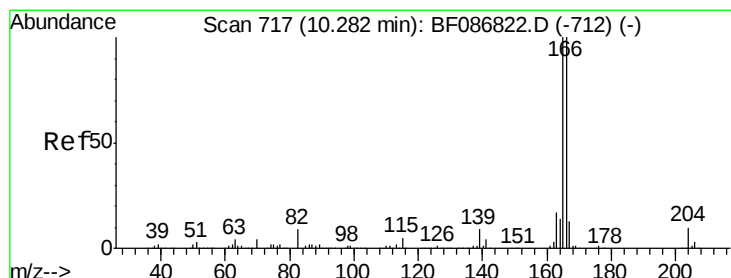
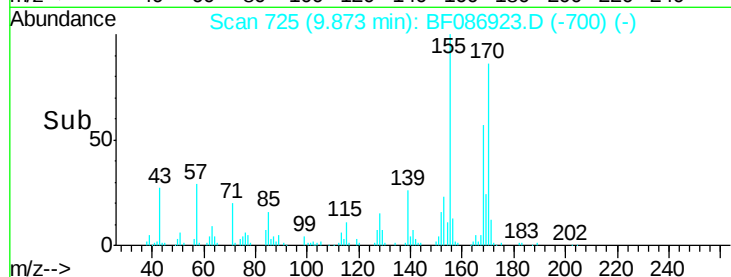
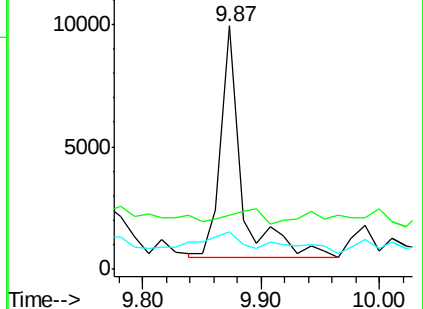
65 15.4 64.0 104.0#



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: 9.61 ng

RT: 10.22 min Scan# 755

Delta R.T. -0.07 min

Lab File: BF086923.D

Acq: 12 May 2016 9:48

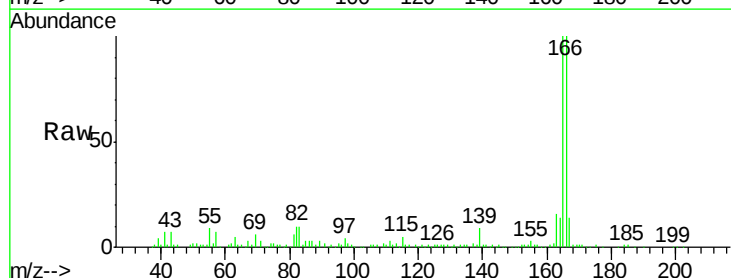
Tgt Ion:166 Resp: 120283

Ion Ratio Lower Upper

166 100

165 99.8 79.0 118.6

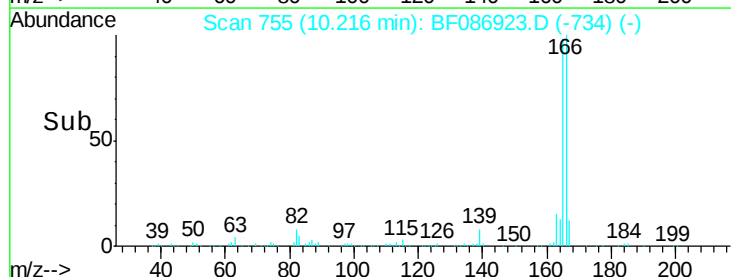
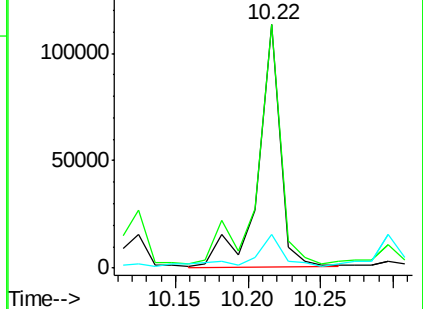
167 13.7 10.6 15.8

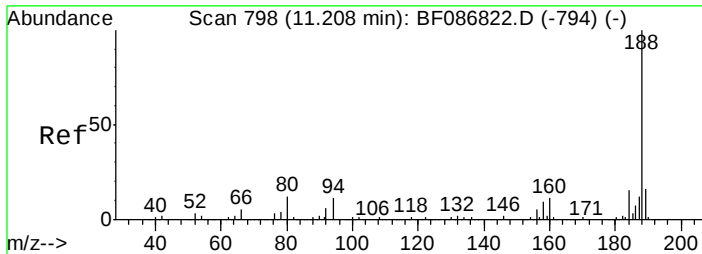


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

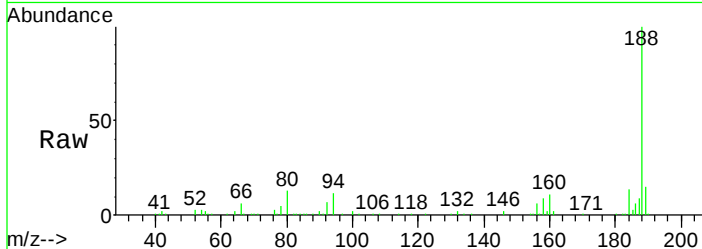




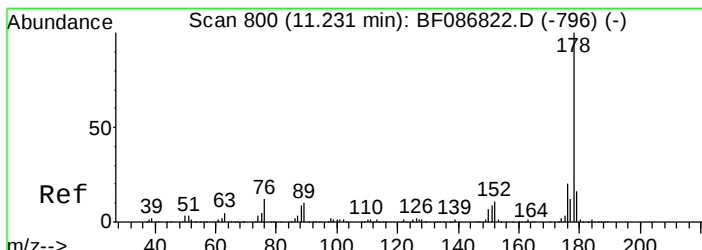
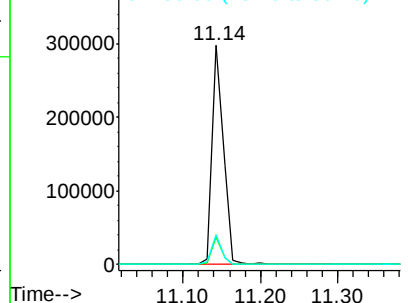
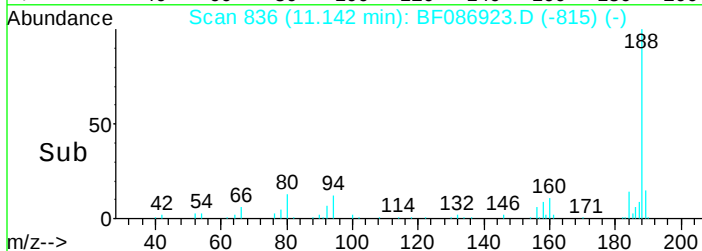
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.14 min Scan# 836
 Delta R.T. -0.07 min
 Lab File: BF086923.D
 Acq: 12 May 2016 9:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 308380
 Ion Ratio Lower Upper
 188 100
 94 12.2 6.8 10.2#
 80 13.5 7.1 10.7#

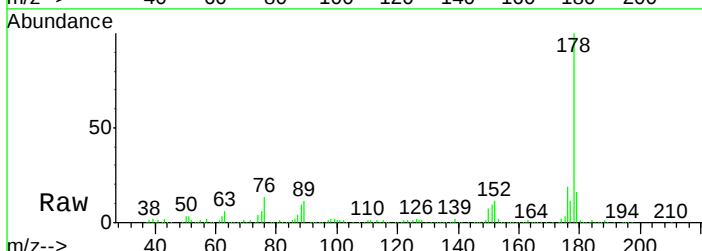


Abundance Ion 188.00 (187.70 to 188.70):
 Ion 94.00 (93.70 to 94.70): BF
 Ion 80.00 (79.70 to 80.70): BF

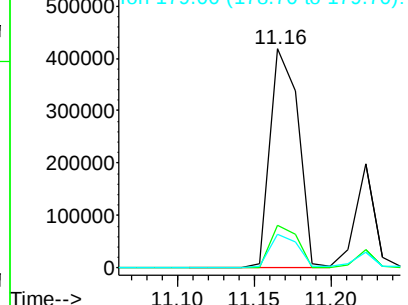
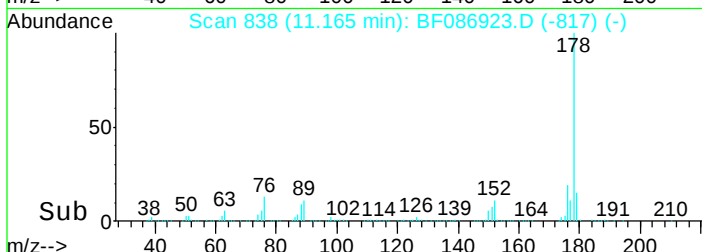


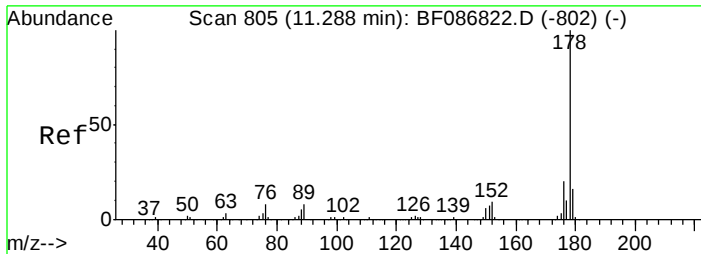
#70
 Phenanthrene
 Concen: 32.31 ng
 RT: 11.16 min Scan# 838
 Delta R.T. -0.07 min
 Lab File: BF086923.D
 Acq: 12 May 2016 9:48

Tgt Ion:178 Resp: 531779
 Ion Ratio Lower Upper
 178 100



Abundance Ion 178.00 (177.70 to 178.70):
 Ion 179.00 (178.70 to 179.70): BF
 Ion 177.00 (176.70 to 177.70): BF
 Ion 176.00 (175.70 to 176.70): BF
 Ion 175.00 (174.70 to 175.70): BF

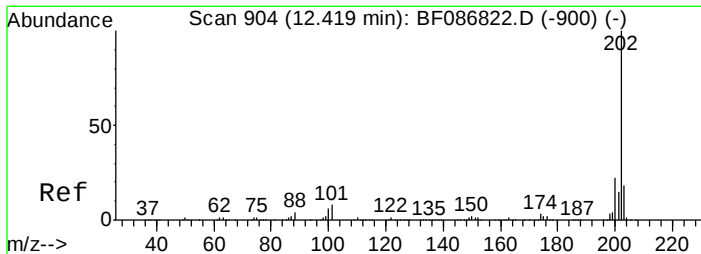
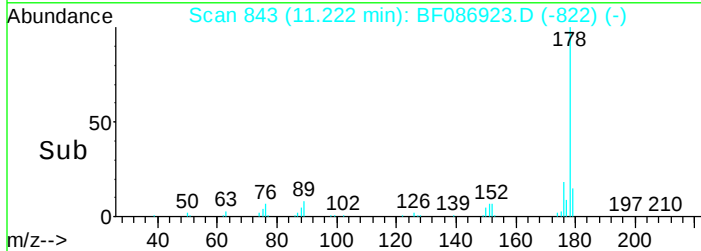
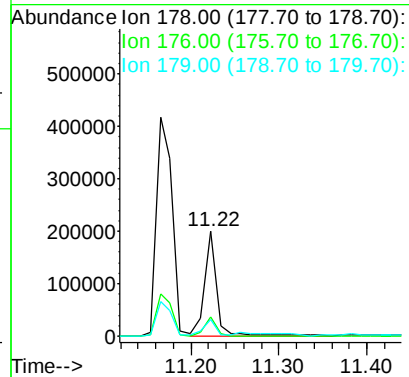
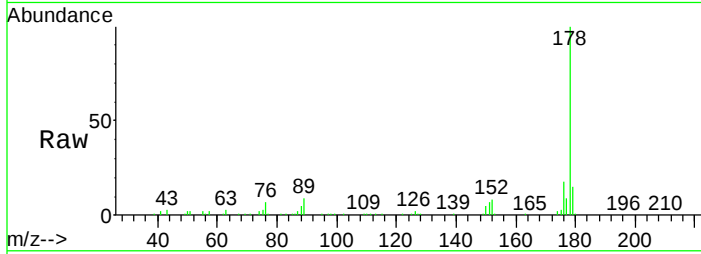




#71
 Anthracene
 Concen: 11.03 ng
 RT: 11.22 min Scan# 843
 Delta R.T. -0.07 min
 Lab File: BF086923.D
 Acq: 12 May 2016 9:48

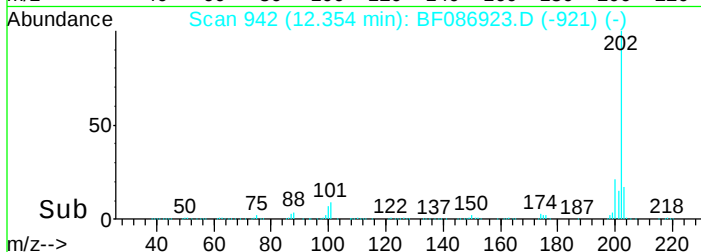
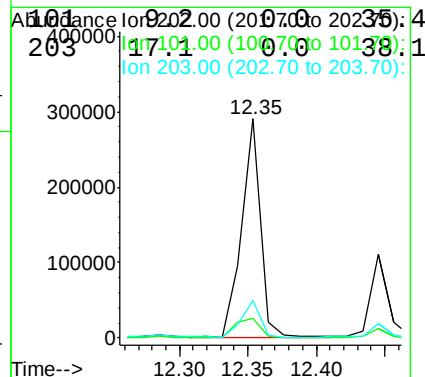
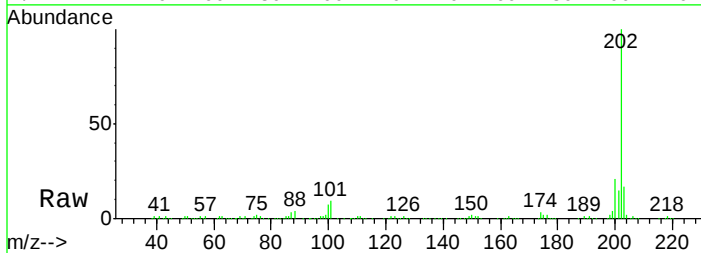
Instrument :
 BNA_F
 ClientSampleId :

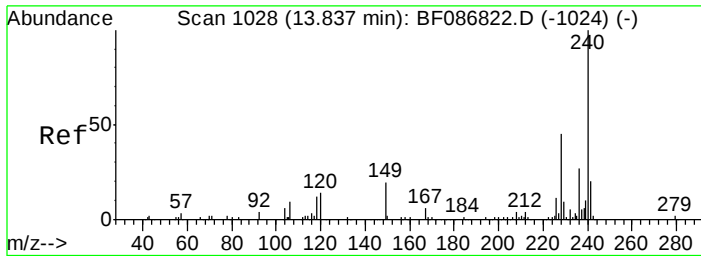
Tot Ion:178 Resp: 185698
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.6 23.4
 179 15.5 12.7 19.1



#74
 Fluoranthene
 Concen: 16.44 ng
 RT: 12.35 min Scan# 942
 Delta R.T. -0.07 min
 Lab File: BF086923.D
 Acq: 12 May 2016 9:48

Tgt Ion:202 Resp: 278241
 Ion Ratio Lower Upper
 202 100
 101 17.1 10.7 38.1
 203 17.1 10.7 38.1

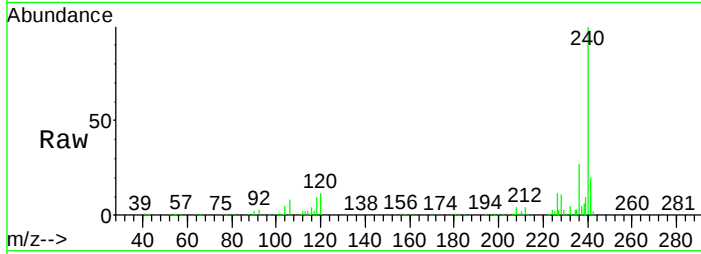




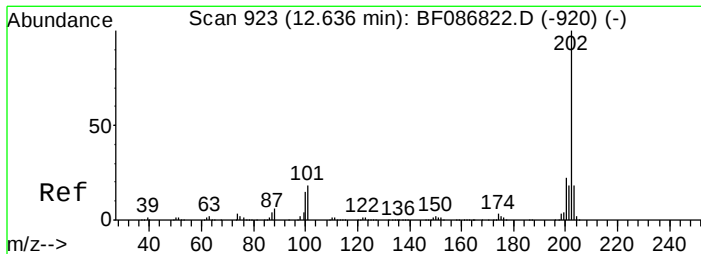
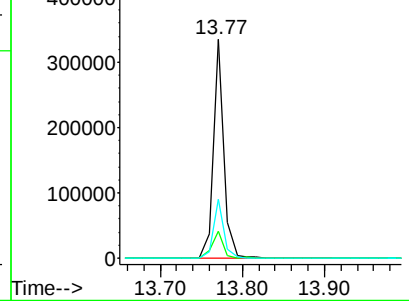
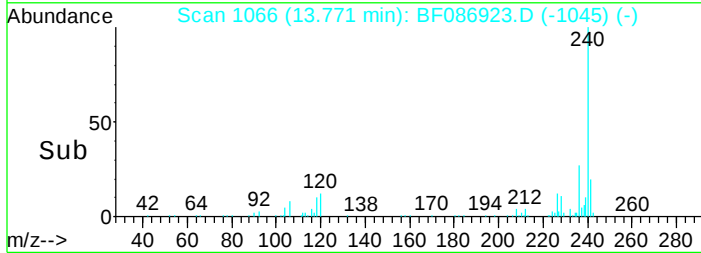
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.77 min Scan# 1066
Delta R.T. -0.07 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:240 Resp: 303558
Ion Ratio Lower Upper
240 100
120 12.4 11.2 16.8
236 26.7 21.2 31.8

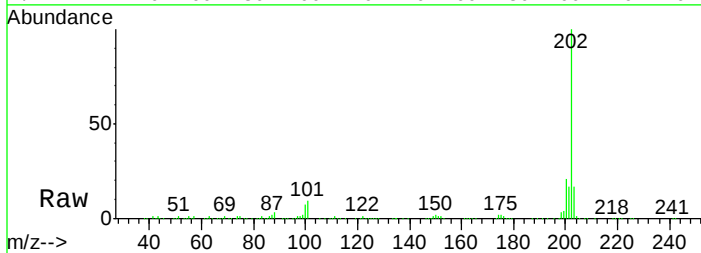


Abundance Ion 240.00 (239.70 to 240.70):
Ion 120.00 (119.70 to 120.70):
Ion 236.00 (235.70 to 236.70):

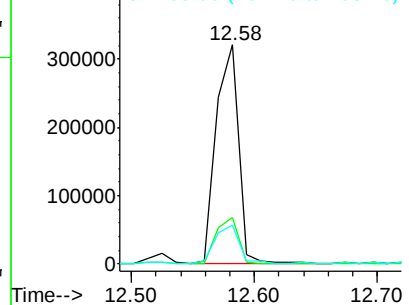
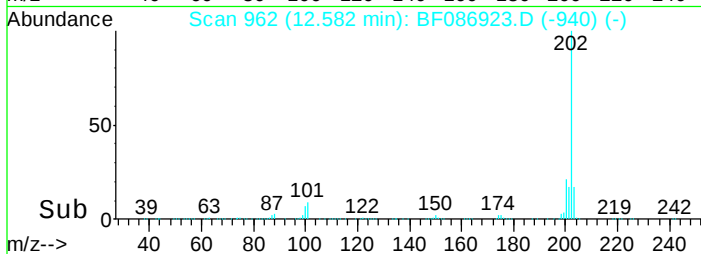


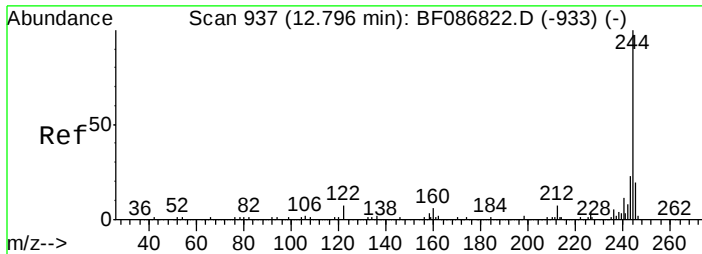
#77
Pyrene
Concen: 17.28 ng
RT: 12.58 min Scan# 962
Delta R.T. -0.05 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Tgt Ion:202 Resp: 401595
Ion Ratio Lower Upper
202 100



Abundance Ion 202.00 (201.70 to 202.70):
Ion 200.00 (199.70 to 200.70):
Ion 203.00 (202.70 to 203.70):

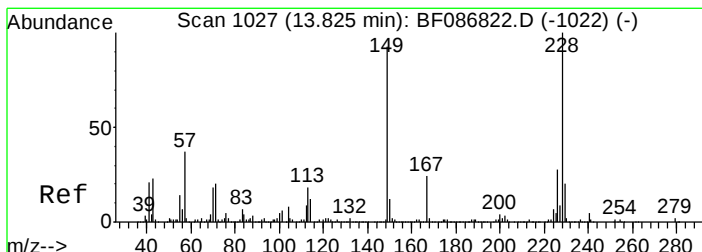
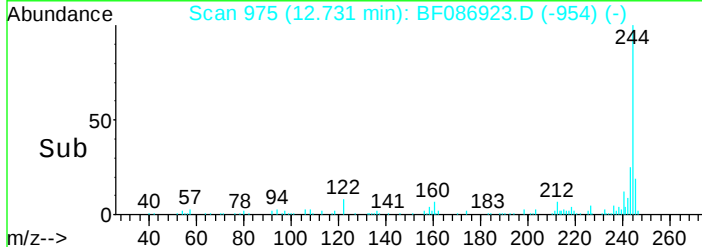
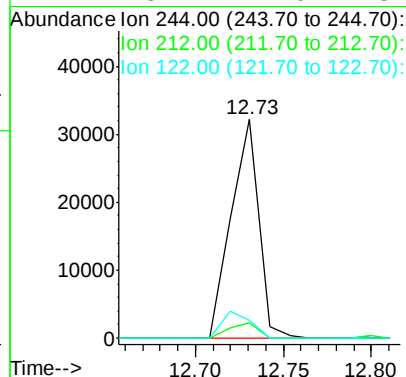
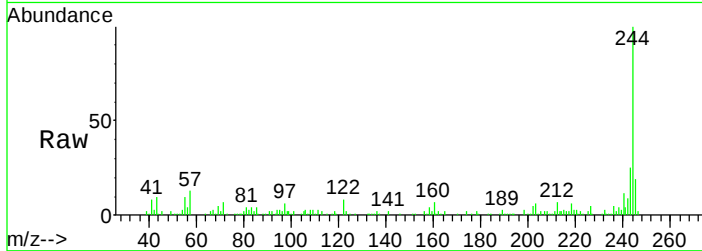




#78
 Terphenyl-d14
 Concen: 2.48 ng
 RT: 12.73 min Scan# 975
 Delta R.T. -0.07 min
 Lab File: BF086923.D
 Acq: 12 May 2016 9:48

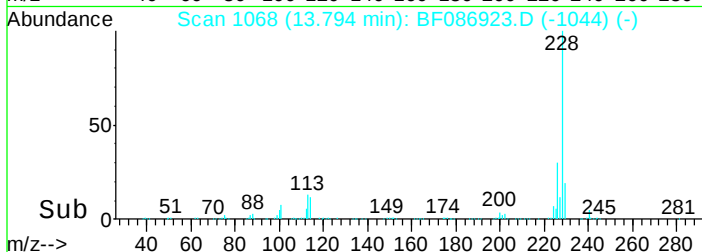
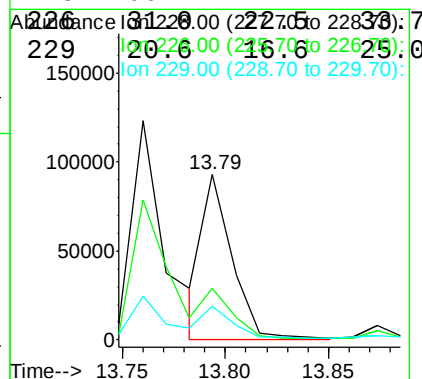
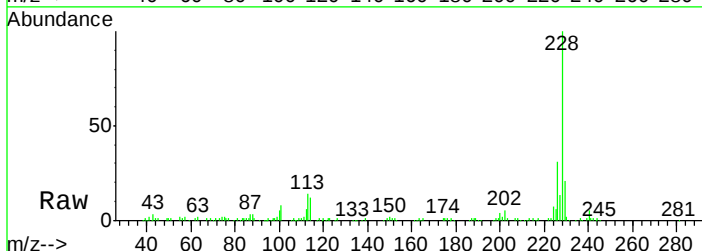
Instrument :
 BNA_F
 ClientSampled :

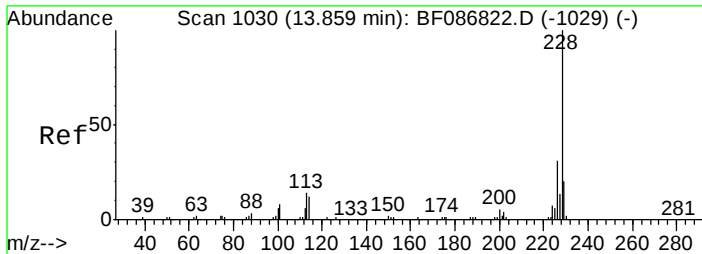
Tot Ion:244 Resp: 35492
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.2 9.2
 122 8.4 12.0 18.0#



#80
 Benzo(a)anthracene
 Concen: 5.42 ng
 RT: 13.79 min Scan# 1068
 Delta R.T. -0.03 min
 Lab File: BF086923.D
 Acq: 12 May 2016 9:48

Tgt Ion:228 Resp: 92384
 Ion Ratio Lower Upper
 228 100

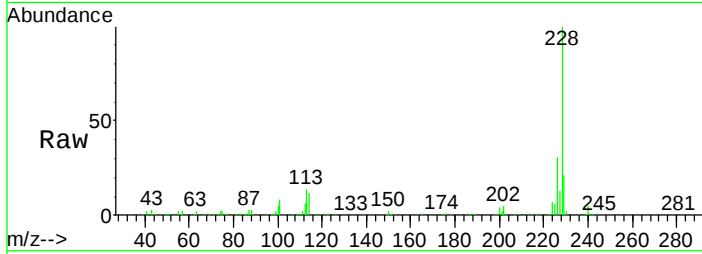




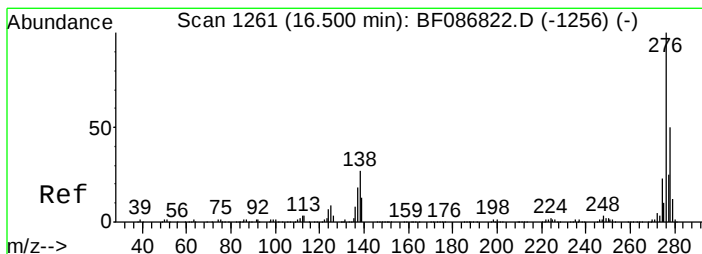
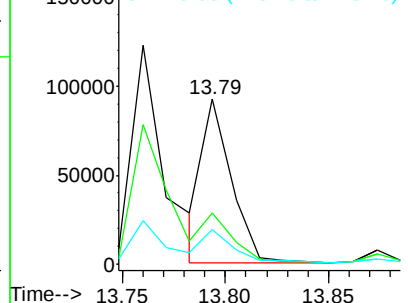
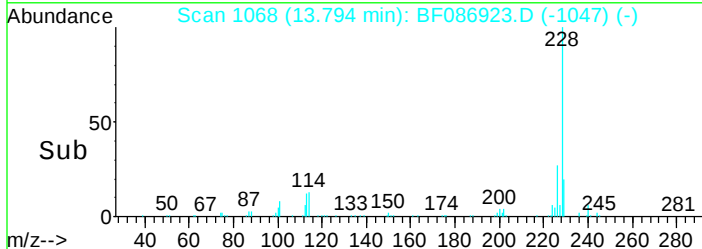
#82
Chrysene
Concen: 5.33 ng
RT: 13.79 min Scan# 1068
Delta R.T. -0.07 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 92384
Ion Ratio Lower Upper
228 100
226 31.0 24.4 36.6
229 20.6 15.8 23.8

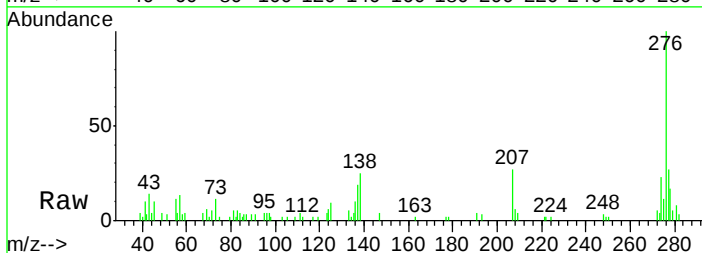


Abundance Ion 228.00 (227.70 to 228.70):
Ion 226.00 (225.70 to 226.70):
Ion 229.00 (228.70 to 229.70):

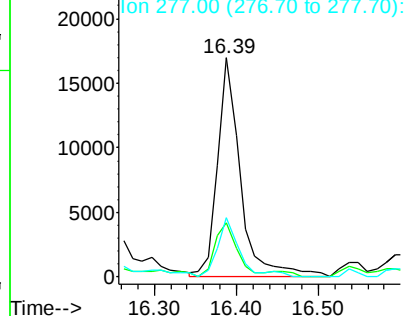
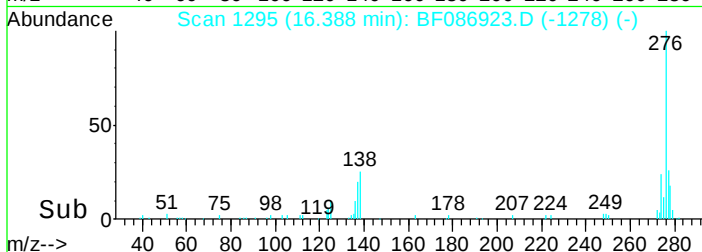


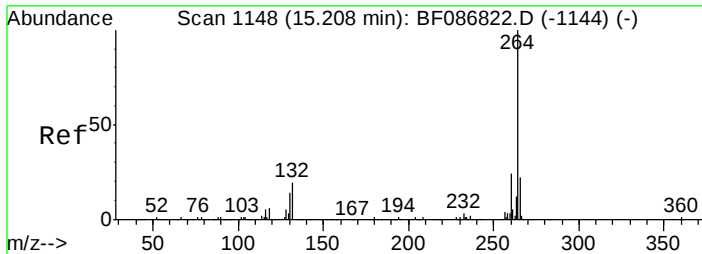
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.29 ng
RT: 16.39 min Scan# 1295
Delta R.T. -0.11 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Tgt Ion:276 Resp: 32995
Ion Ratio Lower Upper
276 100



Abundance Ion 276.00 (275.70 to 276.70): 4#
Ion 277.00 (276.70 to 277.70):
Ion 275.00 (274.70 to 275.70):
Ion 278.00 (277.70 to 278.70):

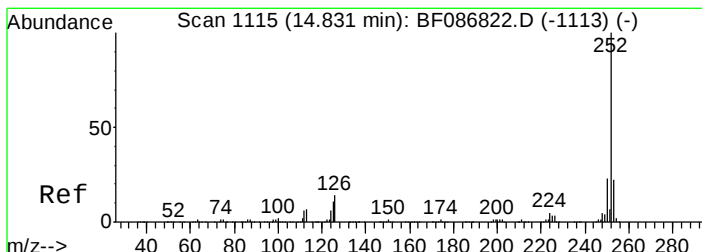
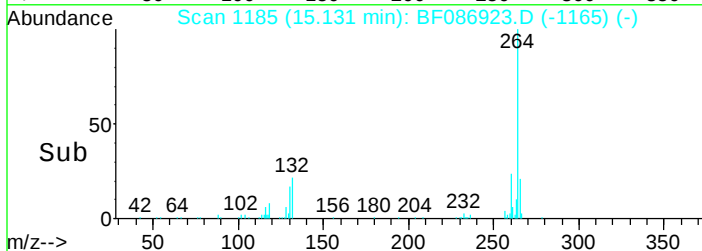
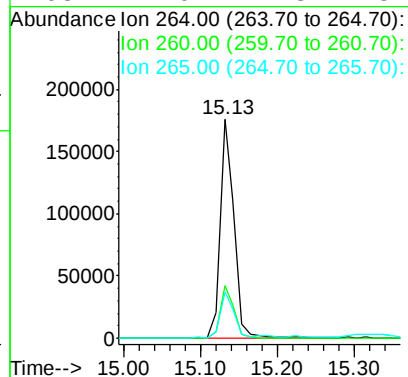
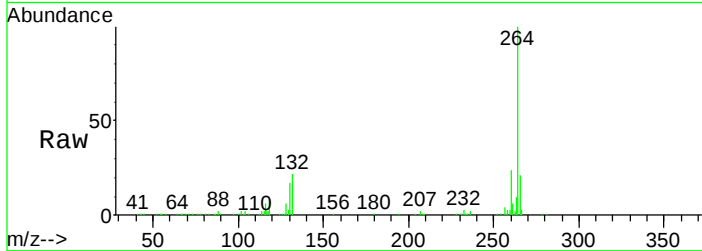




#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.13 min Scan# 1185
 Delta R.T. -0.08 min
 Lab File: BF086923.D
 Acq: 12 May 2016 9:48

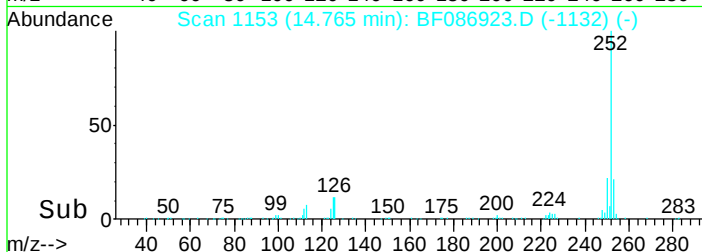
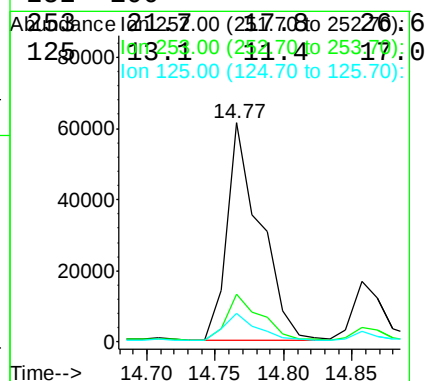
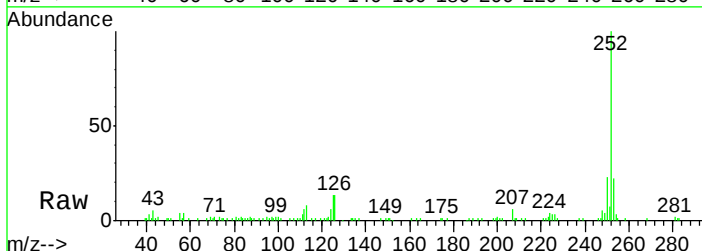
Instrument :
 BNA_F
 ClientSampleId :

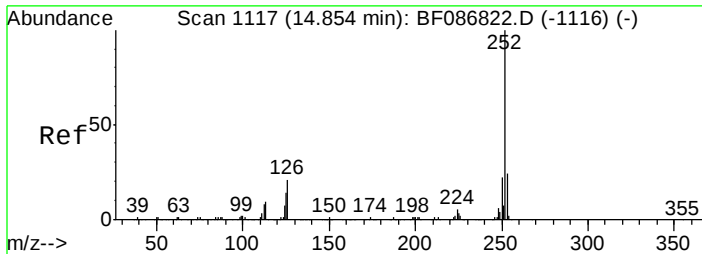
Tot Ion:264 Resp: 226756
 Ion Ratio Lower Upper
 264 100
 260 24.2 19.5 29.3
 265 21.0 17.3 25.9



#87
 Benzo(b)fluoranthene
 Concen: 7.07 ng
 RT: 14.77 min Scan# 1153
 Delta R.T. -0.07 min
 Lab File: BF086923.D
 Acq: 12 May 2016 9:48

Tgt Ion:252 Resp: 104166
 Ion Ratio Lower Upper
 252 100

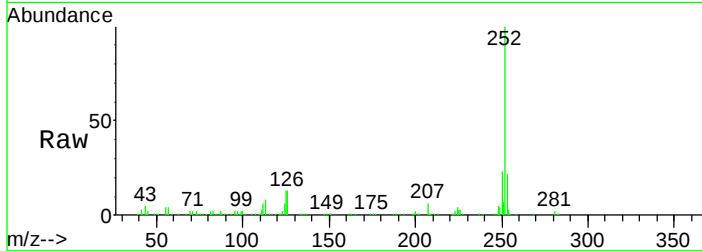




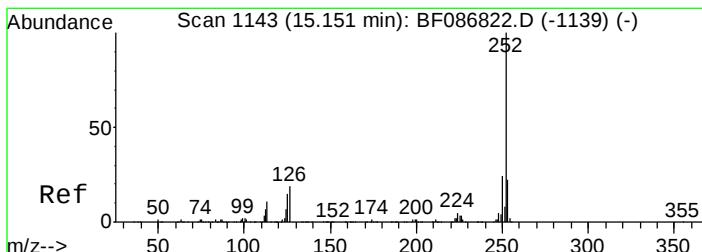
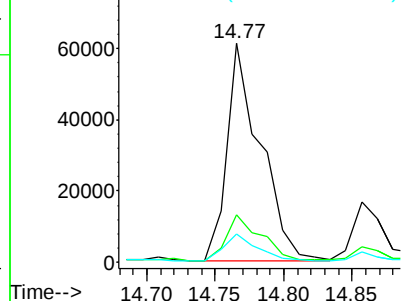
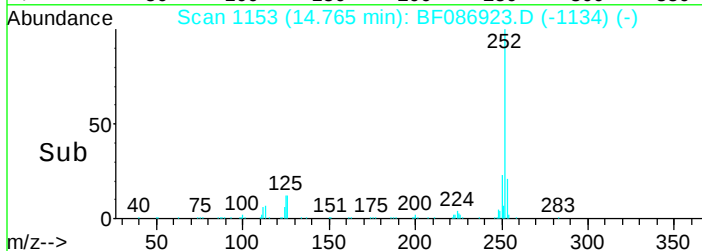
#88
Benzo(k)fluoranthene
Concen: 8.63 ng
RT: 14.77 min Scan# 1153
Delta R.T. -0.09 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:252 Resp: 104166
Ion Ratio Lower Upper
252 100
253 21.7 17.8 26.6
125 13.1 9.1 13.7

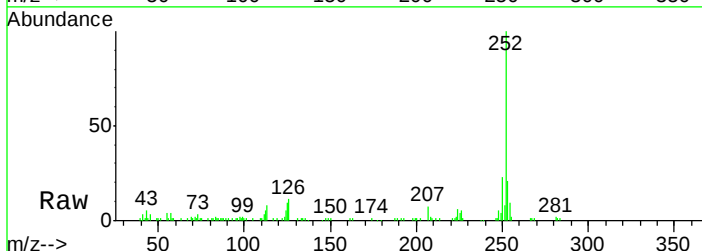


Abundance Ion 252.00 (251.70 to 252.70):
Ion 253.00 (252.70 to 253.70):
Ion 125.00 (124.70 to 125.70):



#89
Benzo(a)pyrene
Concen: 7.06 ng
RT: 15.09 min Scan# 1181
Delta R.T. -0.07 min
Lab File: BF086923.D
Acq: 12 May 2016 9:48

Tgt Ion:252 Resp: 89694
Ion Ratio Lower Upper
252 100
253 21.2 17.2 25.8
125 9.1 9.0 13.6



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

