

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051116\
 Data File : BF086922.D
 Acq On : 12 May 2016 9:19
 Operator : UM/SJ
 Sample : H2961-02DL 50X
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 12 15:21:34 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	130335	20.00	ng	-0.07
21) Naphthalene-d8	7.92	136	525964	20.00	ng	-0.07
38) Acenaphthene-d10	9.67	164	211757	20.00	ng	-0.07
63) Phenanthrene-d10	11.14	188	317890	20.00	ng	-0.07
75) Chrysene-d12	13.77	240	329890	20.00	ng	-0.07
86) Perylene-d12	15.13	264	247627	20.00	ng	-0.08

System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	22018	2.86	ng	-0.05
7) Phenol-d6	6.31	99	28868	2.81	ng	-0.05
23) Nitrobenzene-d5	7.21	82	21393	2.04	ng	-0.05
41) 2,4,6-Tribromophenol	10.46	330	3559	1.59	ng	-0.07
44) 2-Fluorobiphenyl	8.99	172	35850	2.85	ng	-0.07
78) Terphenyl-d14	12.73	244	28848	1.86	ng	-0.07

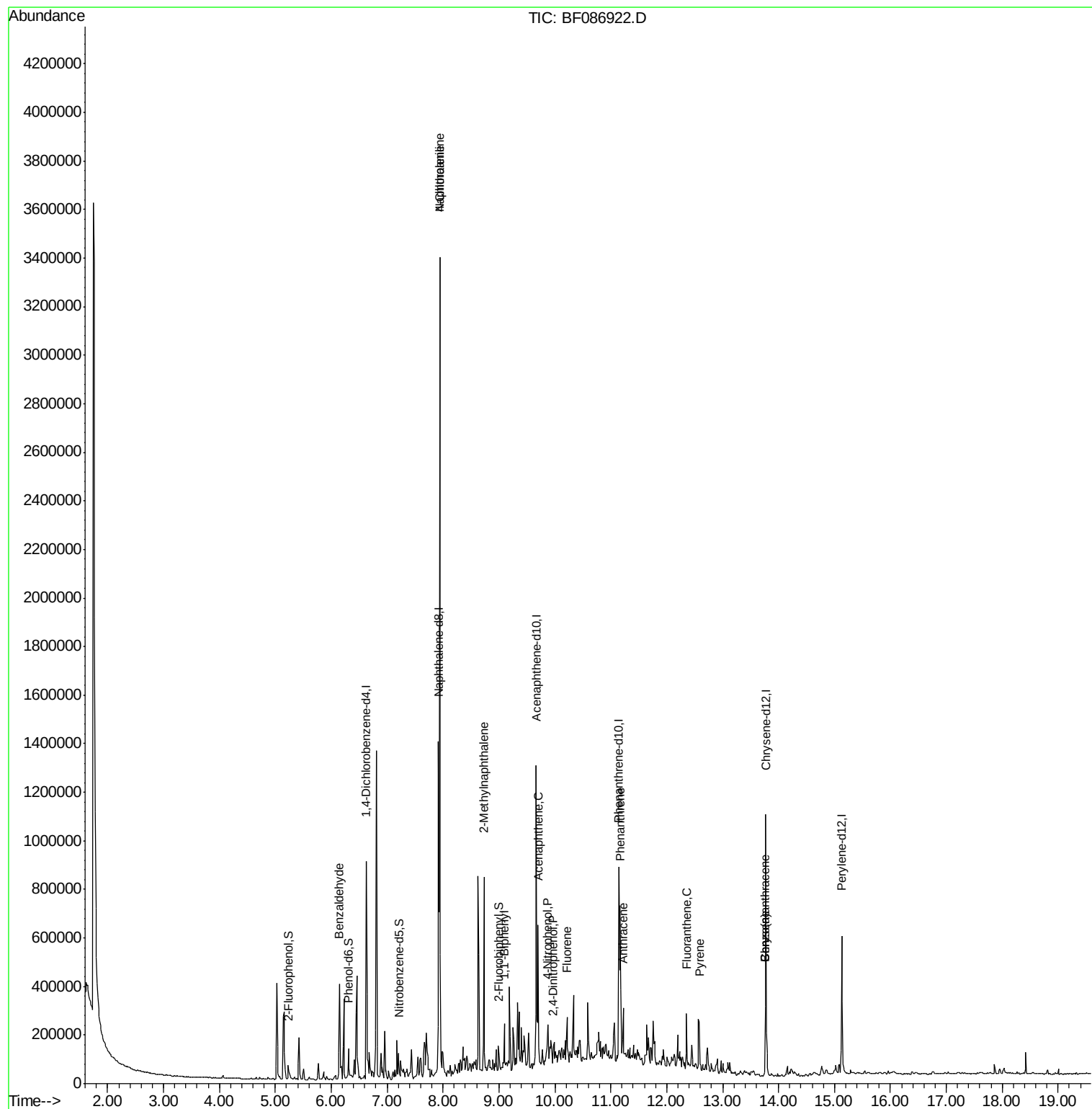
Target Compounds						Qvalue
9) Benzaldehyde	6.15	77	21466	3.60	ng	# 1
31) Naphthalene	7.94	128	1298792	49.30	ng	98
33) 4-Chloroaniline	7.94	127	180345	17.62	ng	# 33
37) 2-Methylnaphthalene	8.73	142	186860	12.13	ng	94
45) 1,1'-Biphenyl	9.10	154	44291	2.63	ng	98
51) Acenaphthene	9.70	154	128928	10.68	ng	98
53) 2,4-Dinitrophenol	9.96	184	246	7.82	ng	# 38
55) 4-Nitrophenol	9.87	139	7574	7.55	ng	# 39
57) Fluorene	10.22	166	74651	5.65	ng	97
60) 4-Chlorophenyl-phenylether	10.03	204	809	Below Cal		# 1
70) Phenanthrene	11.16	178	253054	14.92	ng	99
71) Anthracene	11.22	178	75828	4.37	ng	98
74) Fluoranthene	12.35	202	81737	4.68	ng	92
77) Pyrene	12.58	202	125095	4.95	ng	99
80) Benzo(a)anthracene	13.76	228	45418	2.45	ng	# 76
82) Chrysene	13.76	228	45418	2.41	ng	# 77

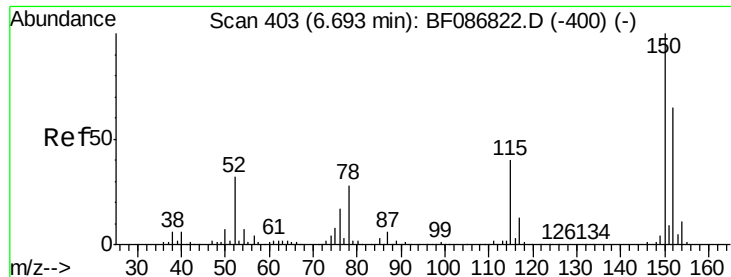
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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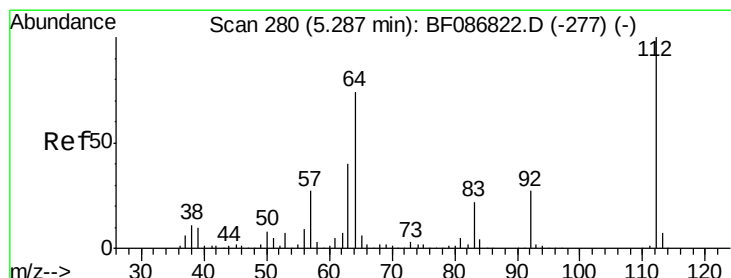
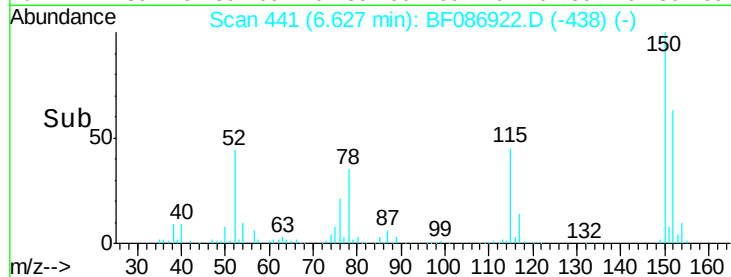
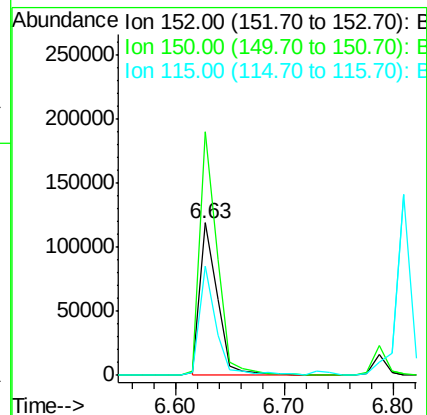
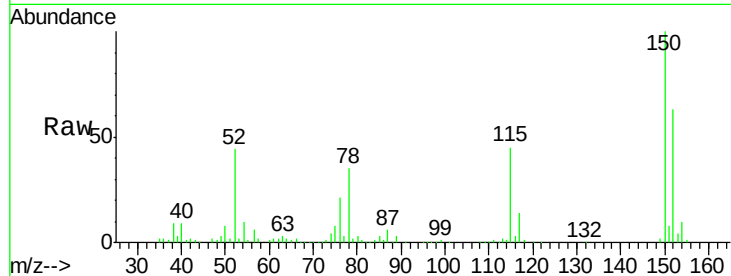


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.63 min Scan# 441
Delta R.T. -0.07 min
Lab File: BF086922.D
Acq: 12 May 2016 9:19

Instrument :
BNA_F
ClientSampleId :

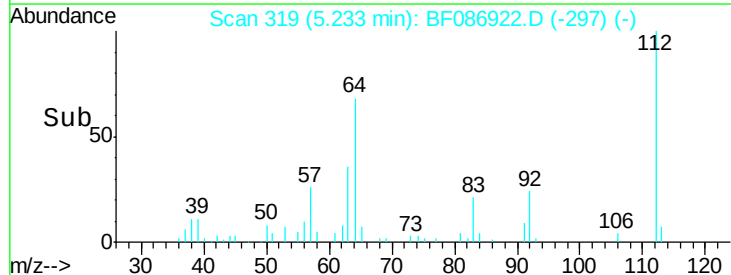
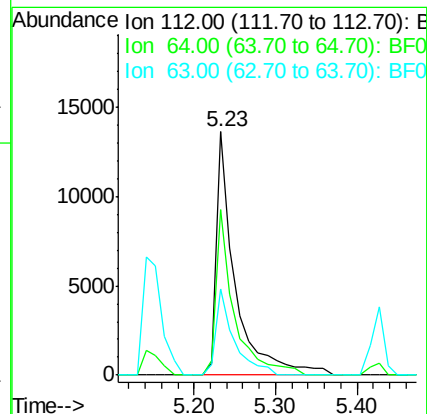
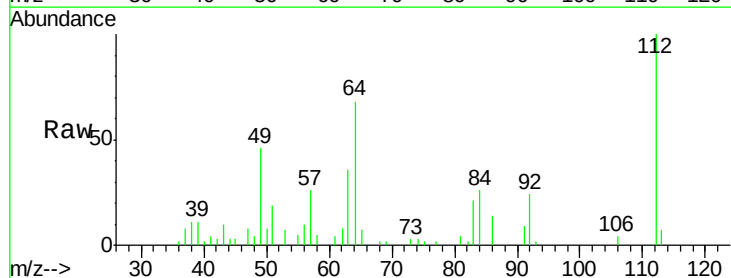
Tot Ion:152 Resp: 130335
Ion Ratio Lower Upper
152 100
150 159.8 125.8 188.6
115 71.7 51.5 77.3

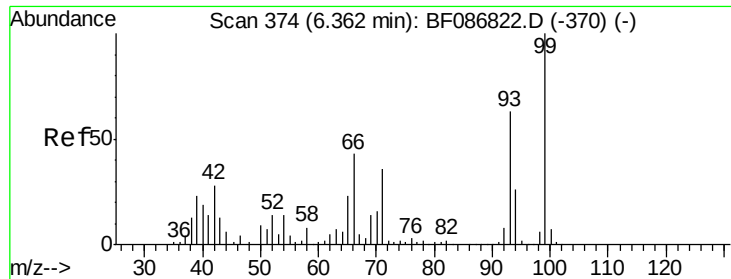


#5

2-Fluorophenol
Concen: 2.86 ng
RT: 5.23 min Scan# 319
Delta R.T. -0.05 min
Lab File: BF086922.D
Acq: 12 May 2016 9:19

Tgt Ion:112 Resp: 22018
Ion Ratio Lower Upper
112 100
64 68.1 52.1 78.1
63 35.5 25.7 38.5





#7

Phenol-d6

Concen: 2.81 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.05 min

Lab File: BF086922.D

Acq: 12 May 2016 9:19

Instrument :

BNA_F

ClientSampleId :

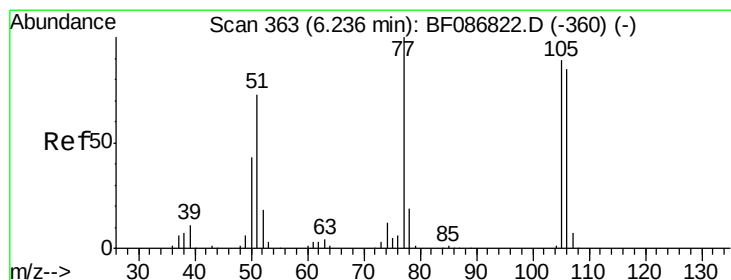
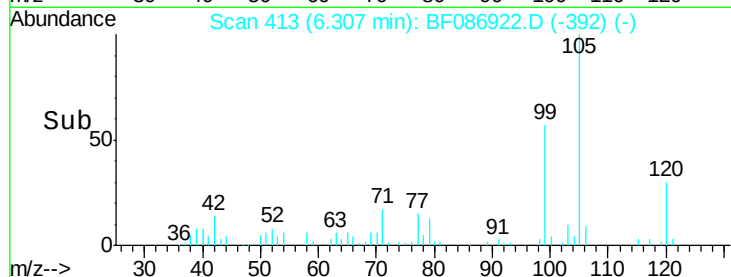
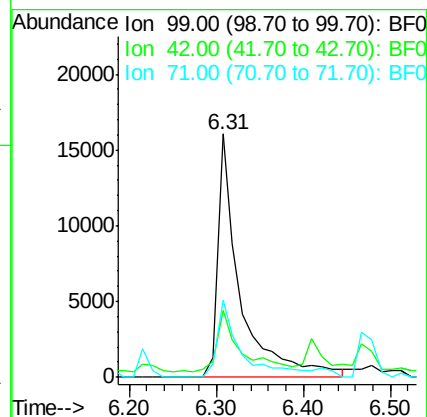
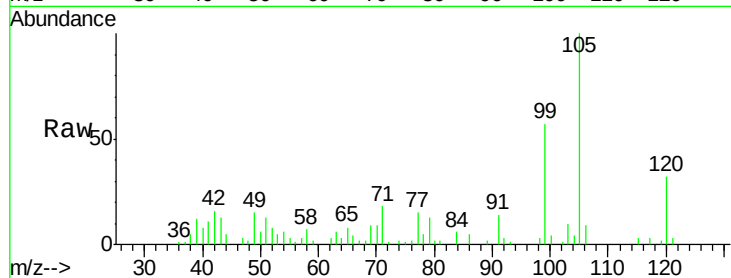
Tot Ion: 99 Resp: 28868

Ion Ratio Lower Upper

99 100

42 27.7 13.6 20.4#

71 31.8 24.6 36.8



#9

Benzaldehyde

Concen: 3.60 ng

RT: 6.15 min Scan# 399

Delta R.T. -0.09 min

Lab File: BF086922.D

Acq: 12 May 2016 9:19

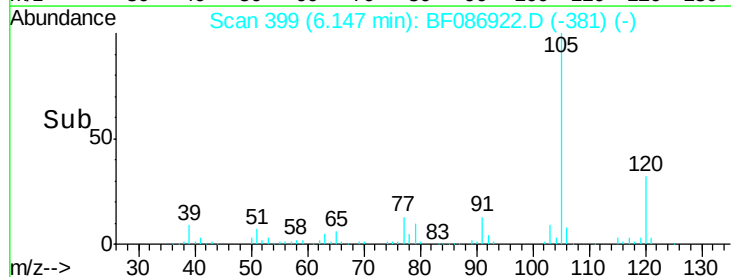
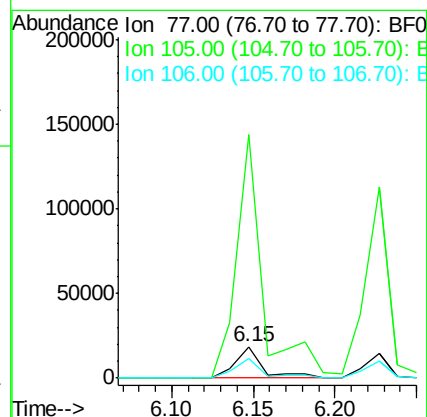
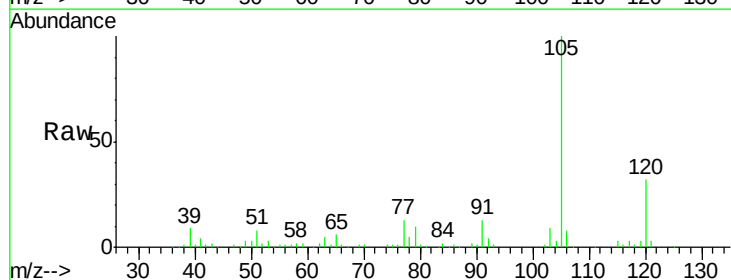
Tgt Ion: 77 Resp: 21466

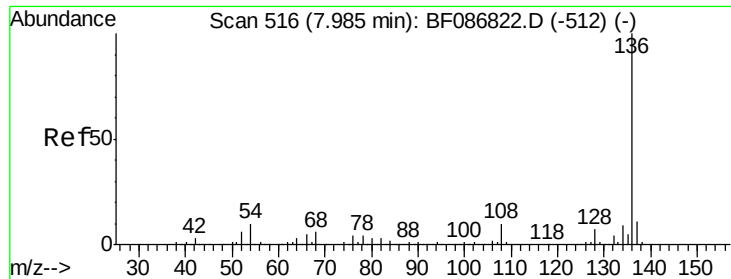
Ion Ratio Lower Upper

77 100

105 781.6 72.7 112.7#

106 64.3 70.8 110.8#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 554

Delta R.T. -0.07 min

Lab File: BF086922.D

Acq: 12 May 2016 9:19

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 525964

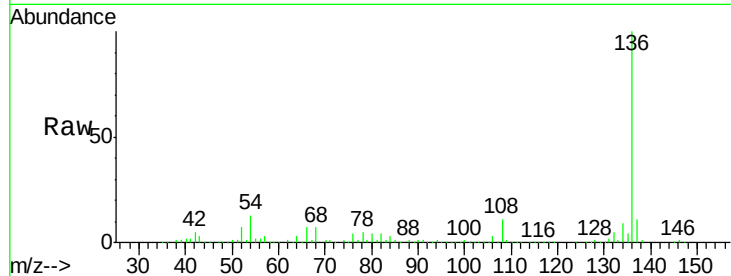
Ion Ratio Lower Upper

136 100

137 11.3 8.8 13.2

54 13.0 5.0 7.4#

68 6.9 4.4 6.6#

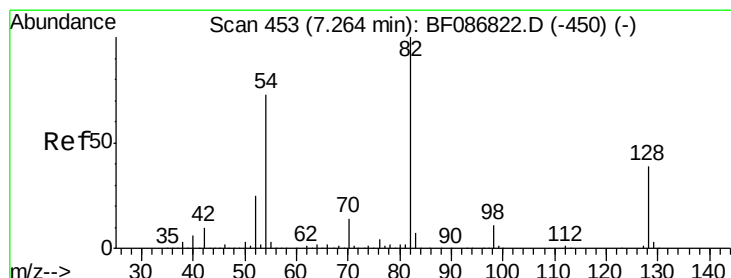
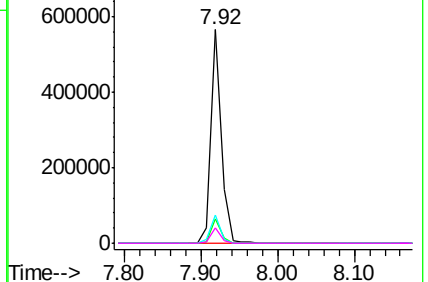
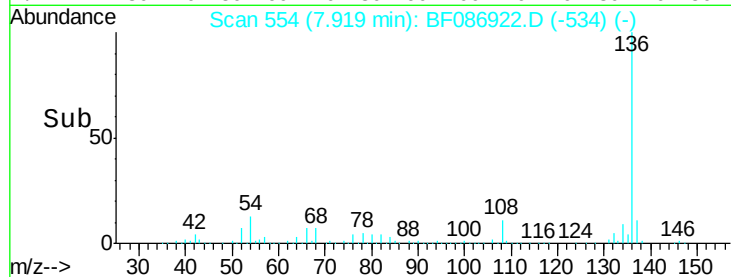


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 2.04 ng

RT: 7.21 min Scan# 492

Delta R.T. -0.05 min

Lab File: BF086922.D

Acq: 12 May 2016 9:19

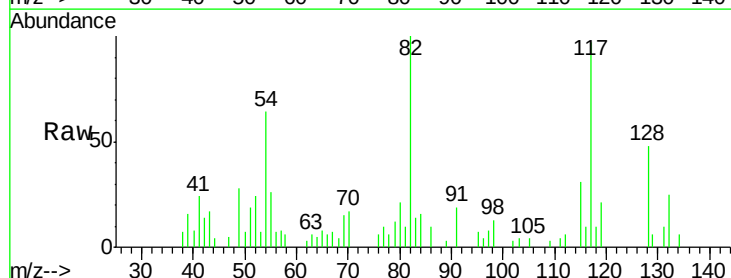
Tgt Ion: 82 Resp: 21393

Ion Ratio Lower Upper

82 100

128 47.7 40.6 61.0

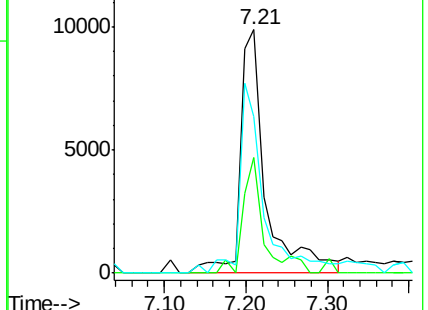
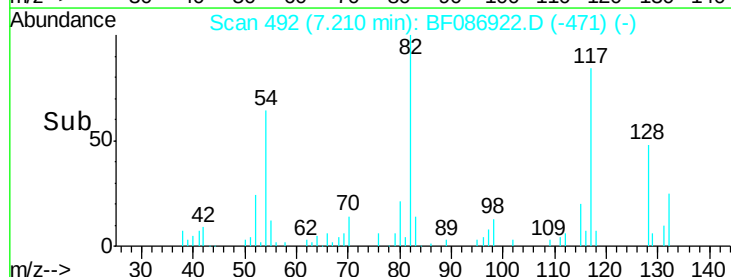
54 64.1 38.1 57.1#

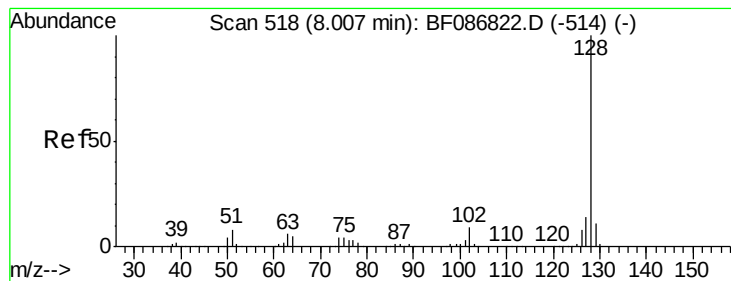


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 49.30 ng

RT: 7.94 min Scan# 556

Delta R.T. -0.07 min

Lab File: BF086922.D

Acq: 12 May 2016 9:19

Instrument :

BNA_F

ClientSampleId :

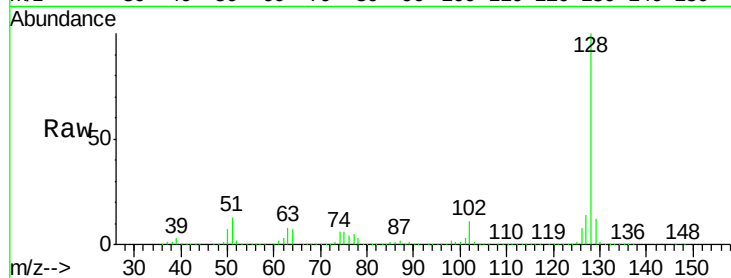
Tot Ion:128 Resp: 1298792

Ion Ratio Lower Upper

128 100

129 11.8 8.6 13.0

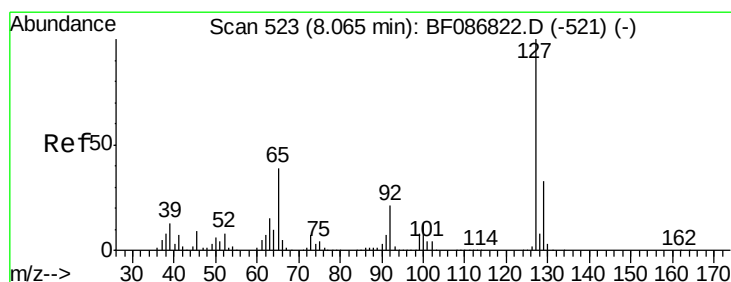
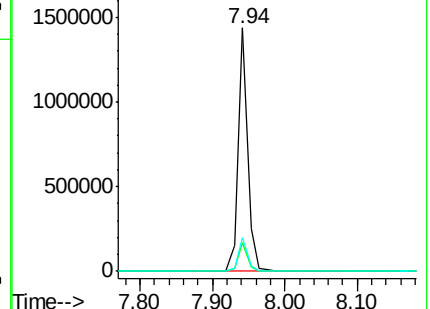
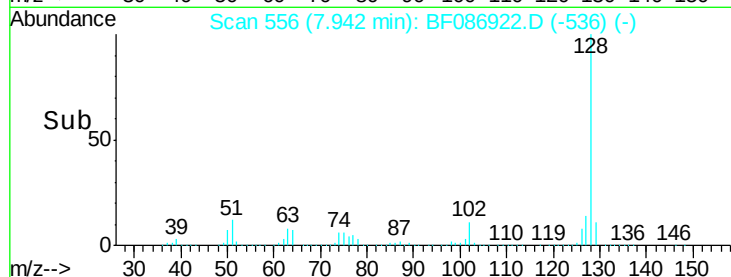
127 13.9 10.8 16.2



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: 17.62 ng

RT: 7.94 min Scan# 556

Delta R.T. -0.12 min

Lab File: BF086922.D

Acq: 12 May 2016 9:19

Tgt Ion:127 Resp: 180345

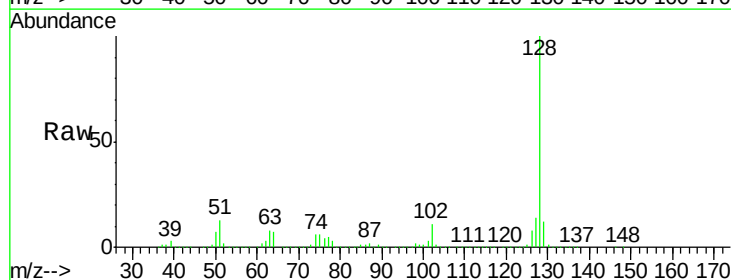
Ion Ratio Lower Upper

127 100

129 84.8 26.2 39.4#

65 0.0 23.0 34.4#

92 0.0 15.1 22.7#

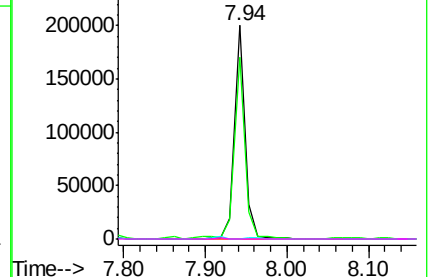
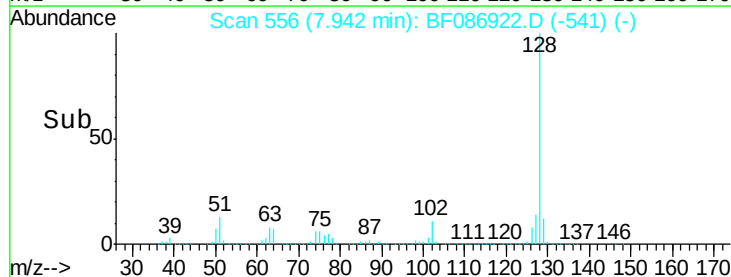


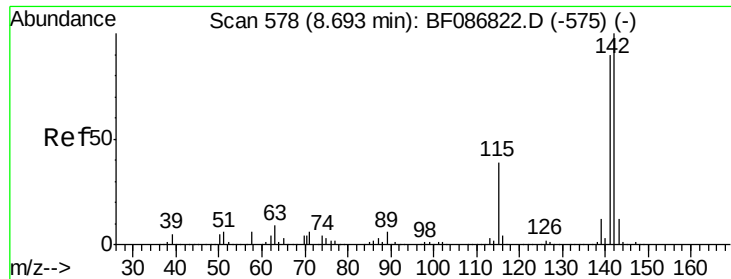
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

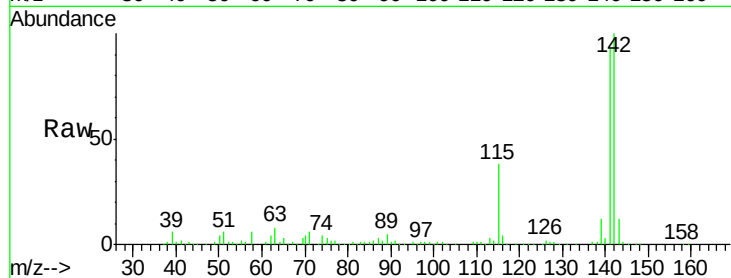




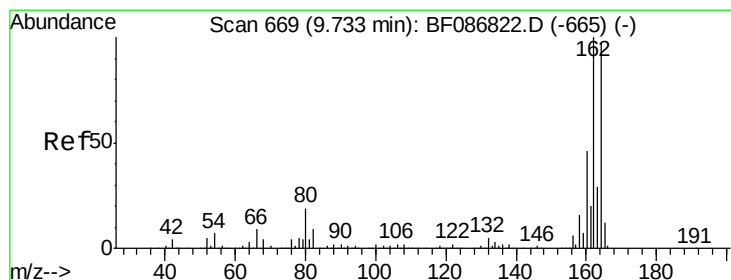
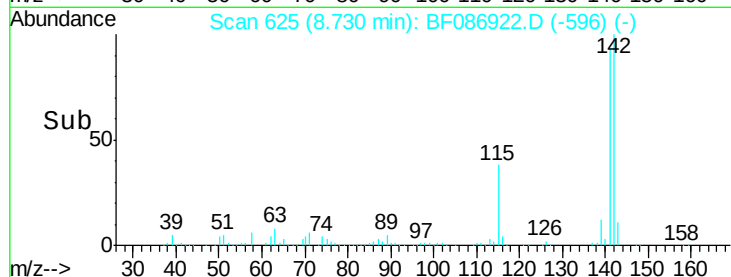
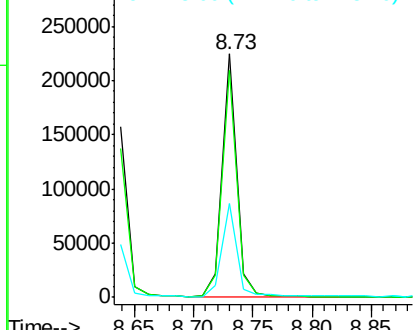
#37
2-Methylnaphthalene
Concen: 12.13 ng
RT: 8.73 min Scan# 625
Delta R.T. 0.04 min
Lab File: BF086922.D
Acq: 12 May 2016 9:19

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	93.3	71.0	106.6
115	38.3	26.6	39.8

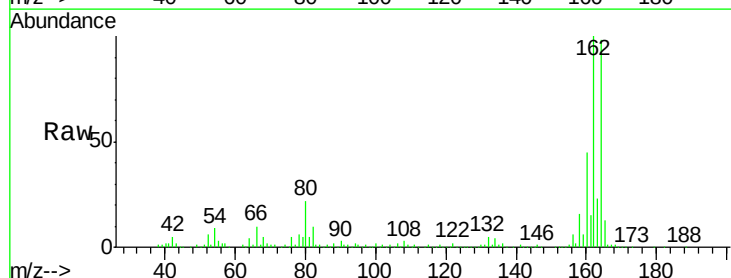


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

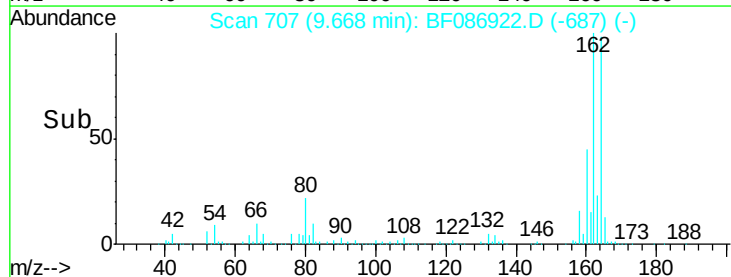
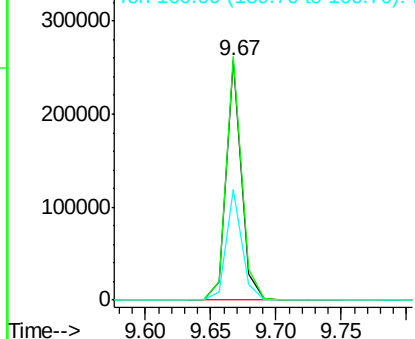


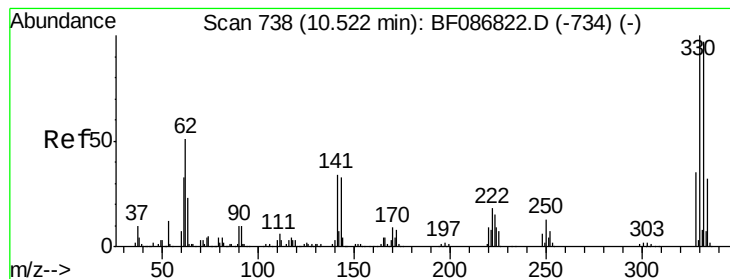
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.67 min Scan# 707
Delta R.T. -0.07 min
Lab File: BF086922.D
Acq: 12 May 2016 9:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.8	124.2
160	45.9	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

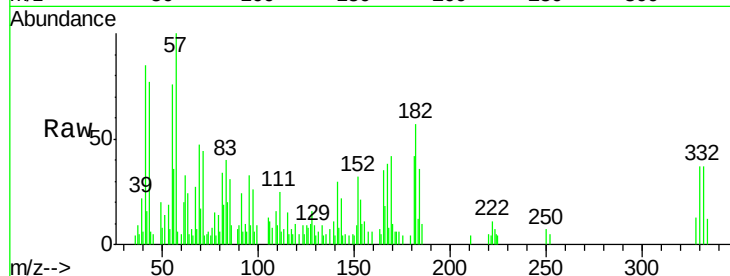




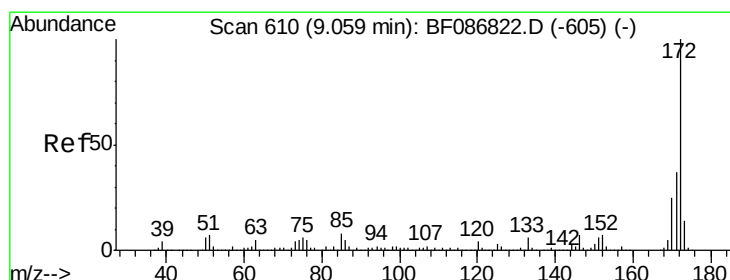
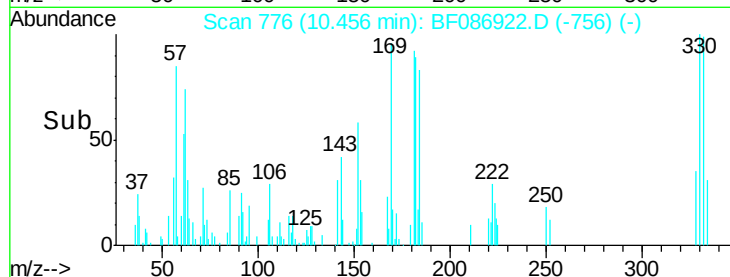
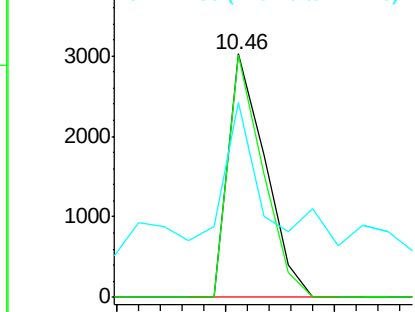
#41
 2,4,6-Tribromophenol
 Concen: 1.59 ng
 RT: 10.46 min Scan# 776
 Delta R.T. -0.07 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.5	79.0	118.4
141	105.3	31.2	46.8#

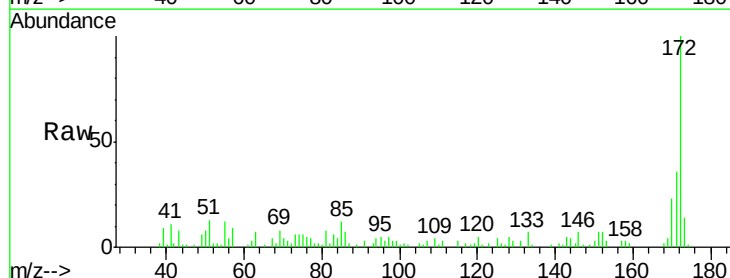


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

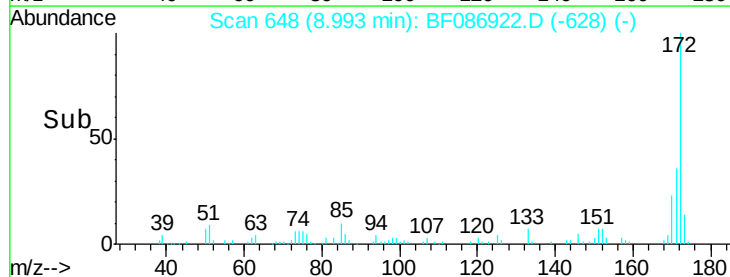
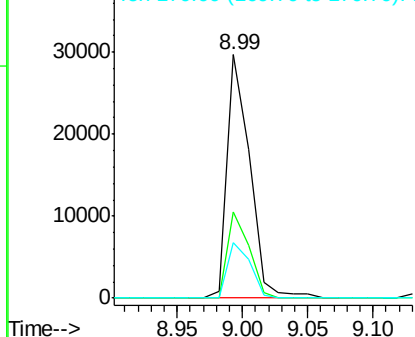


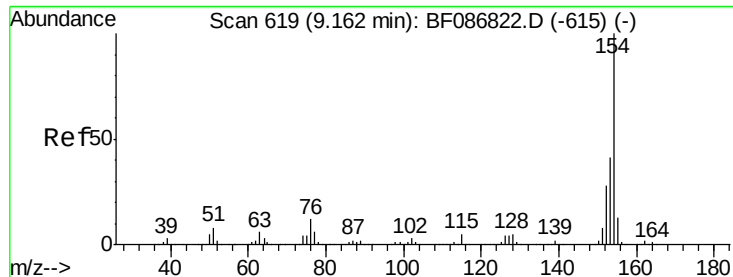
#44
 2-Fluorobiphenyl
 Concen: 2.85 ng
 RT: 8.99 min Scan# 648
 Delta R.T. -0.07 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.6
170	22.7	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

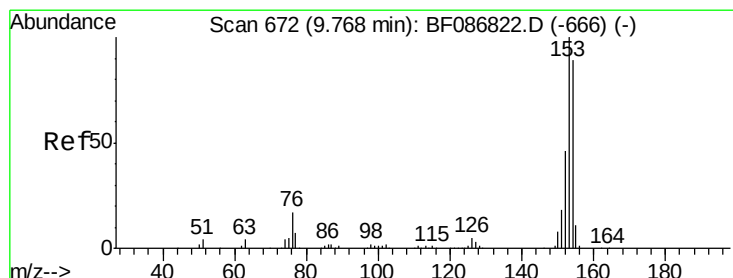
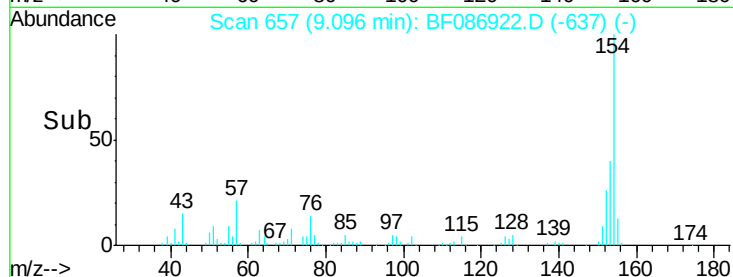
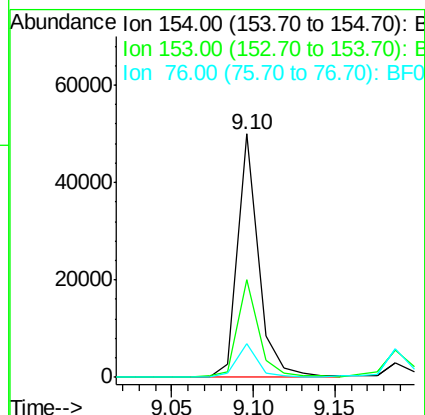
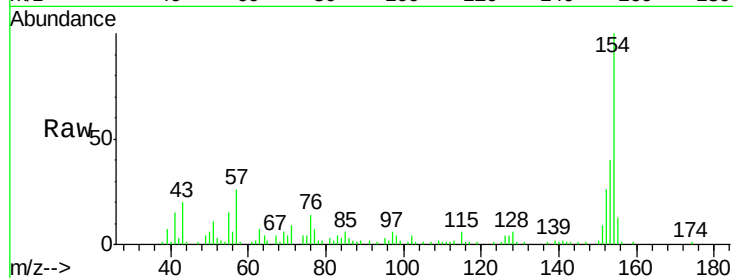




#45
 1,1'-Biphenyl
 Concen: 2.63 ng
 RT: 9.10 min Scan# 657
 Delta R.T. -0.07 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

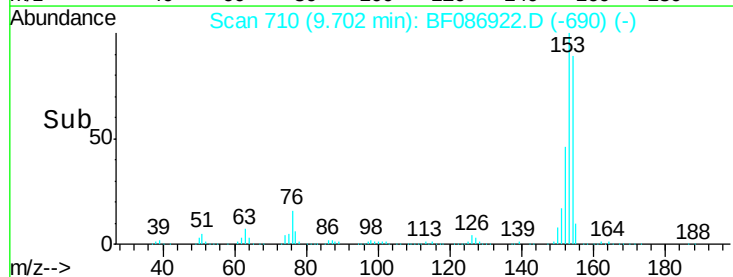
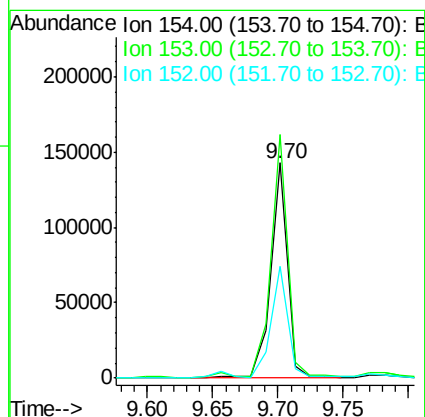
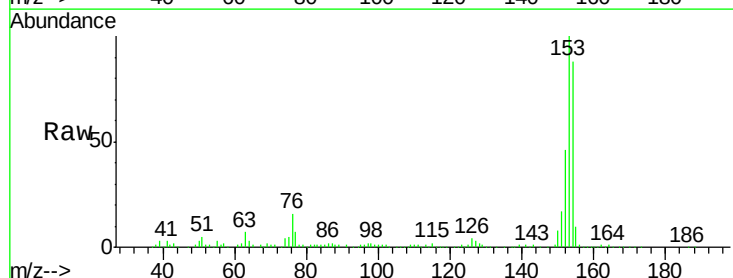
Instrument :
 BNA_F
 ClientSampleId :

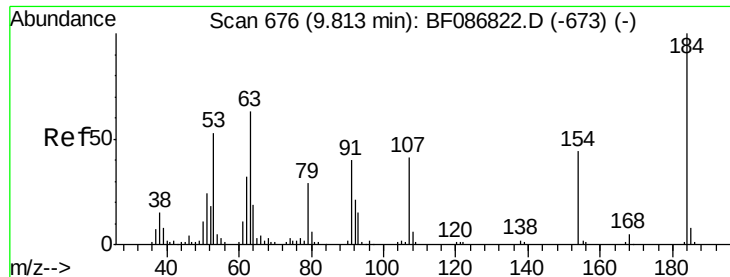
Tot Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.3	60.3
76	13.7	0.0	30.2



#51
 Acenaphthene
 Concen: 10.68 ng
 RT: 9.70 min Scan# 710
 Delta R.T. -0.07 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.3	89.8	134.6
152	51.9	43.4	65.0

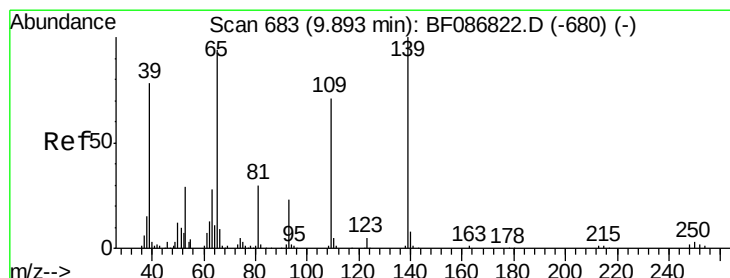
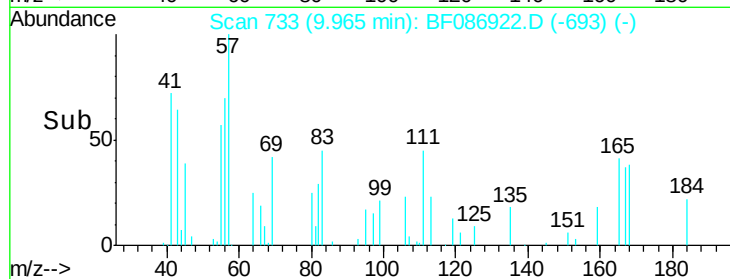
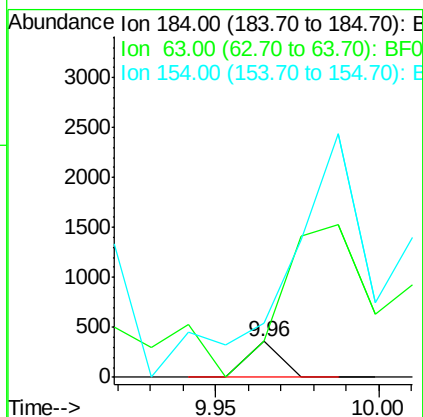
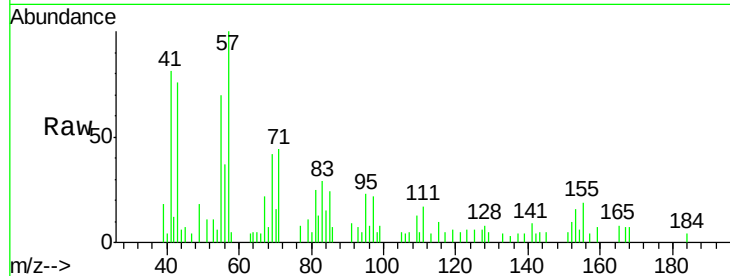




#53
 2,4-Dinitrophenol
 Concen: 7.82 ng
 RT: 9.96 min Scan# 733
 Delta R.T. 0.15 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

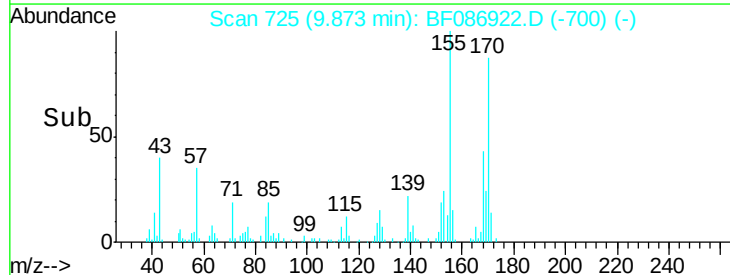
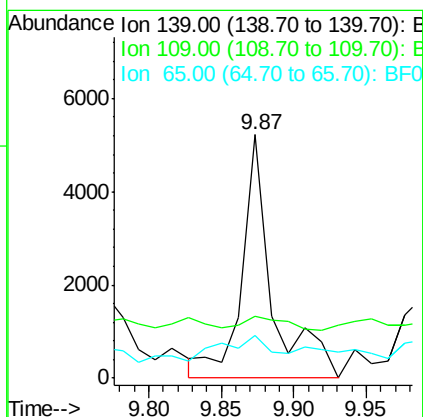
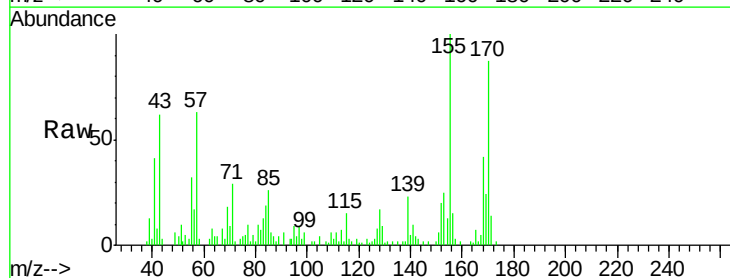
Instrument :
 BNA_F
 ClientSampleId :

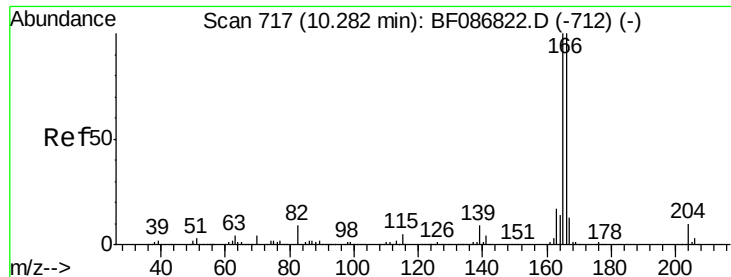
Tot Ion:184 Resp: 246
 Ion Ratio Lower Upper
 184 100
 63 101.1 55.8 83.8#
 154 150.0 62.4 93.6#



#55
 4-Nitrophenol
 Concen: 7.55 ng
 RT: 9.87 min Scan# 725
 Delta R.T. -0.02 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

Tgt Ion:139 Resp: 7574
 Ion Ratio Lower Upper
 139 100
 109 25.6 36.9 76.9#
 65 17.8 64.0 104.0#

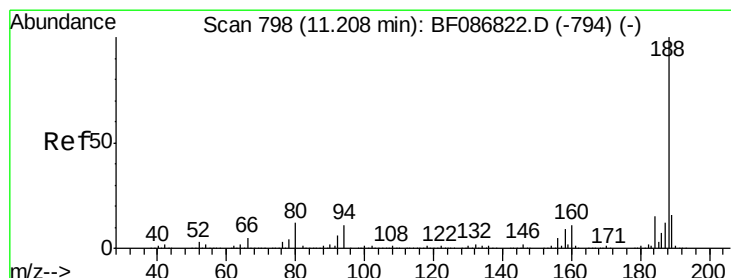
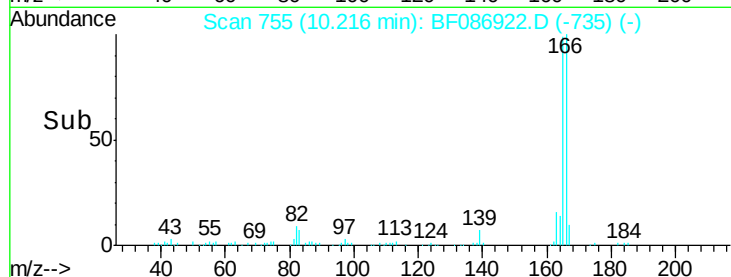
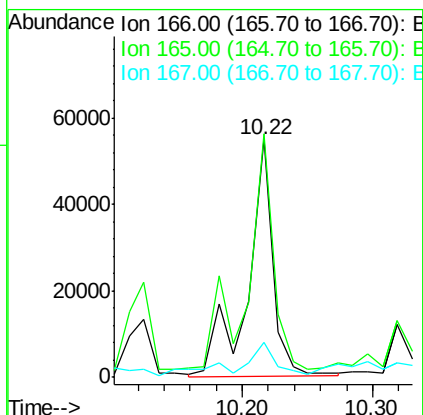
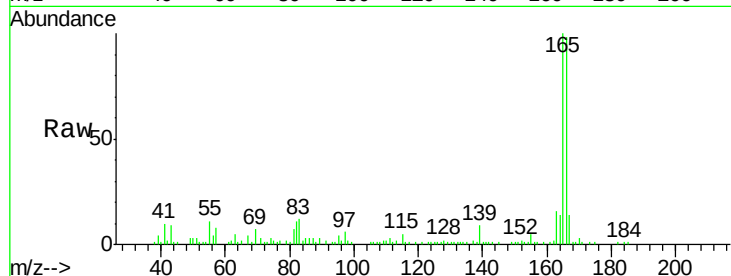




#57
 Fluorene
 Concen: 5.65 ng
 RT: 10.22 min Scan# 755
 Delta R.T. -0.07 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

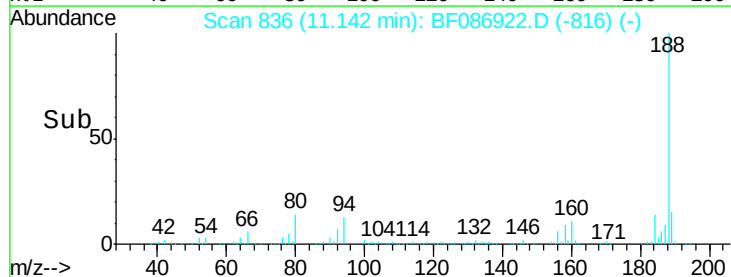
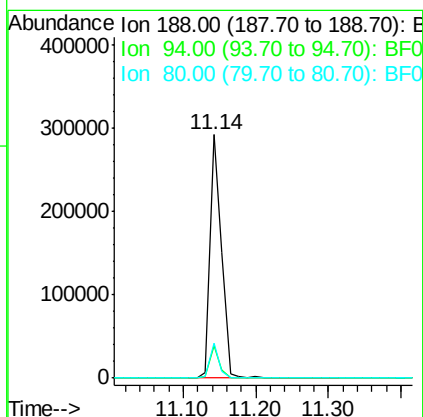
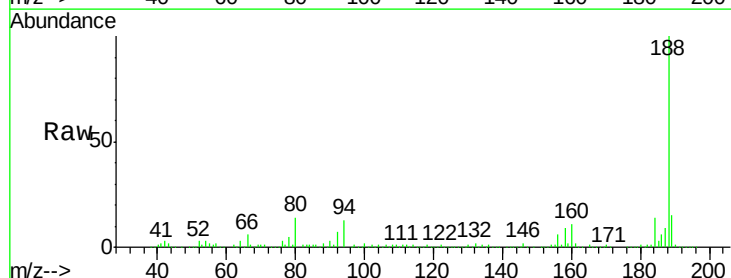
Instrument :
 BNA_F
 ClientSampleId :

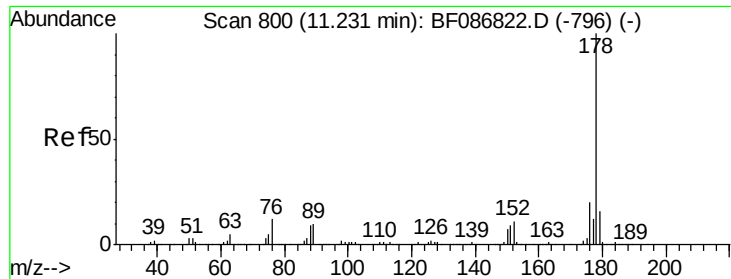
Tot Ion:166 Resp: 74651
 Ion Ratio Lower Upper
 166 100
 165 102.3 79.0 118.6
 167 14.5 10.6 15.8



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.14 min Scan# 836
 Delta R.T. -0.07 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

Tgt Ion:188 Resp: 317890
 Ion Ratio Lower Upper
 188 100
 94 13.4 6.8 10.2#
 80 14.5 7.1 10.7#

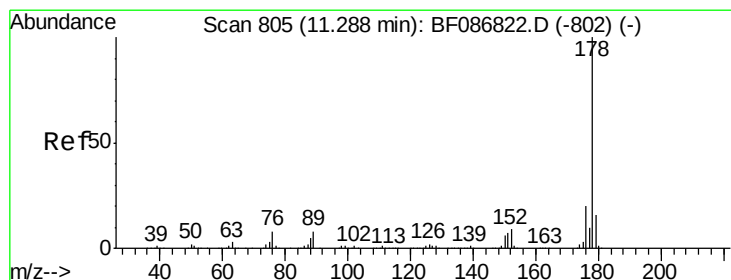
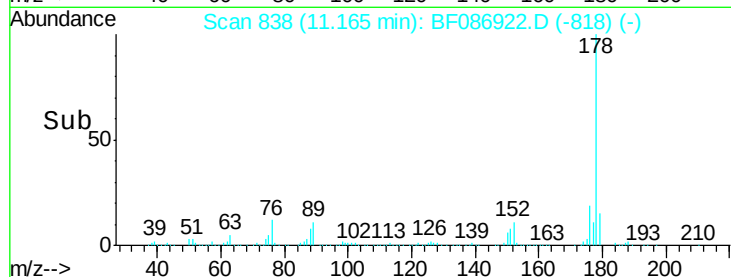
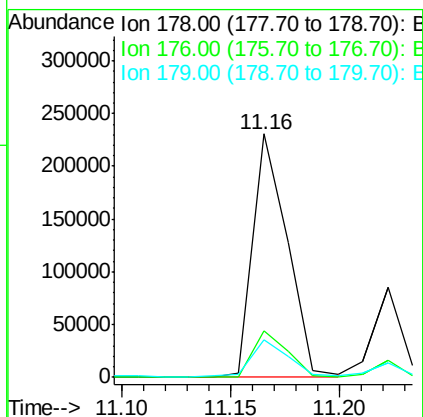
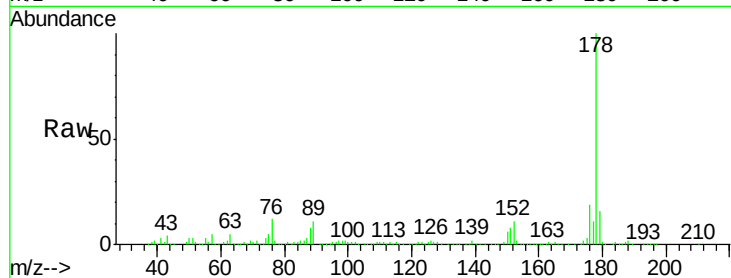




#70
Phenanthrene
Concen: 14.92 ng
RT: 11.16 min Scan# 838
Delta R.T. -0.07 min
Lab File: BF086922.D
Acq: 12 May 2016 9:19

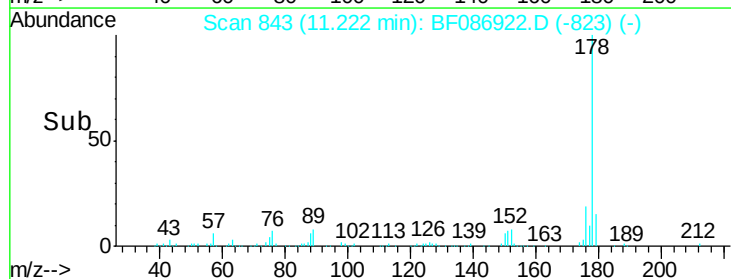
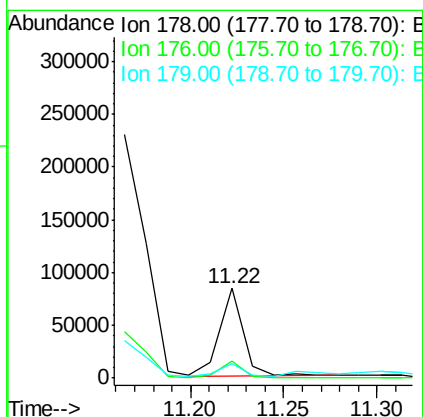
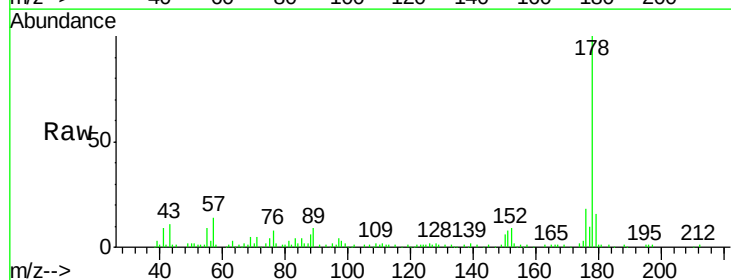
Instrument :
BNA_F
ClientSampleId :

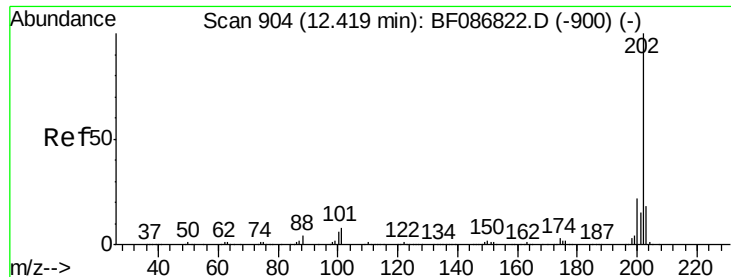
Tot Ion:178 Resp: 253054
Ion Ratio Lower Upper
178 100
176 19.2 16.0 24.0
179 15.6 12.6 18.8



#71
Anthracene
Concen: 4.37 ng
RT: 11.22 min Scan# 843
Delta R.T. -0.07 min
Lab File: BF086922.D
Acq: 12 May 2016 9:19

Tgt Ion:178 Resp: 75828
Ion Ratio Lower Upper
178 100
176 18.3 15.6 23.4
179 15.7 12.7 19.1





#74

Fluoranthene

Concen: 4.68 ng

RT: 12.35 min Scan# 942

Delta R.T. -0.07 min

Lab File: BF086922.D

Acq: 12 May 2016 9:19

Instrument :

BNA_F

ClientSampleId :

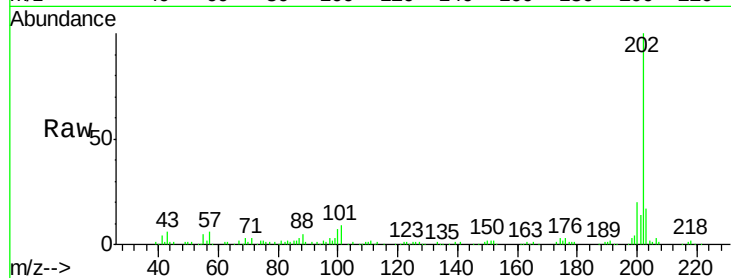
Tot Ion:202 Resp: 81737

Ion Ratio Lower Upper

202 100

101 9.3 0.0 35.4

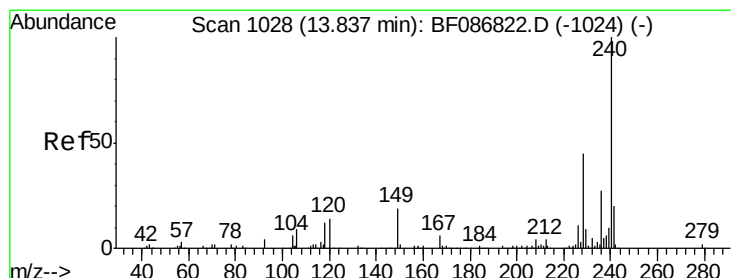
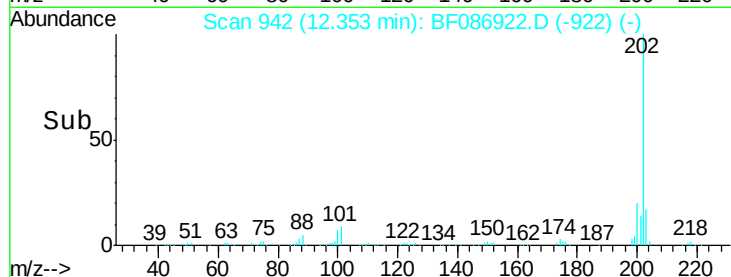
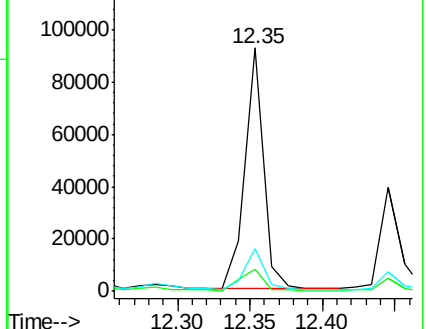
203 17.4 0.0 38.1



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: 13.77 min Scan# 1066

Delta R.T. -0.07 min

Lab File: BF086922.D

Acq: 12 May 2016 9:19

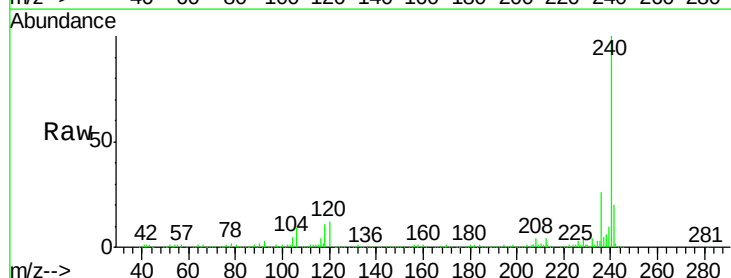
Tgt Ion:240 Resp: 329890

Ion Ratio Lower Upper

240 100

120 12.5 11.2 16.8

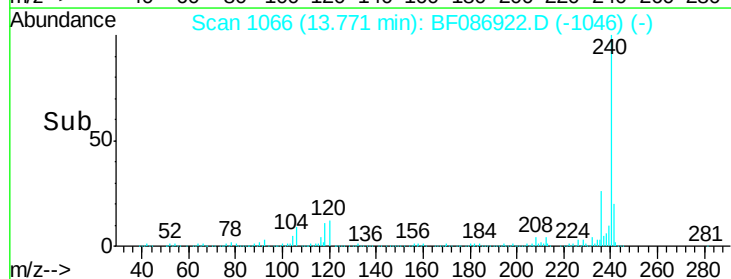
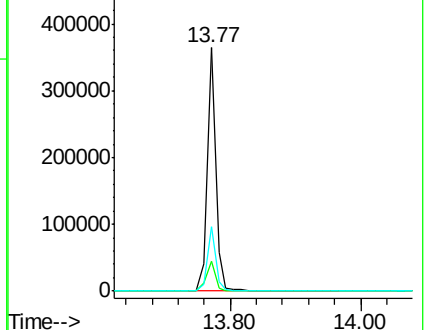
236 26.5 21.2 31.8

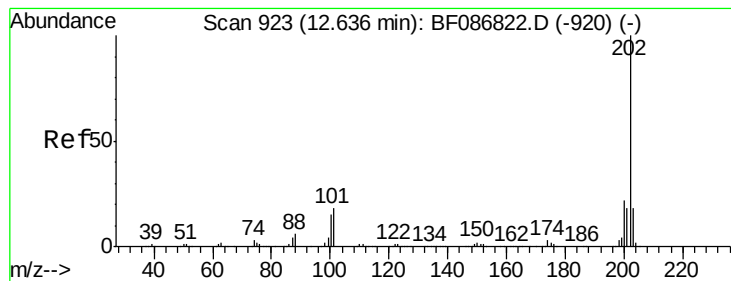


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 4.95 ng

RT: 12.58 min Scan# 962

Delta R.T. -0.05 min

Lab File: BF086922.D

Acq: 12 May 2016 9:19

Instrument :

BNA_F

ClientSampleId :

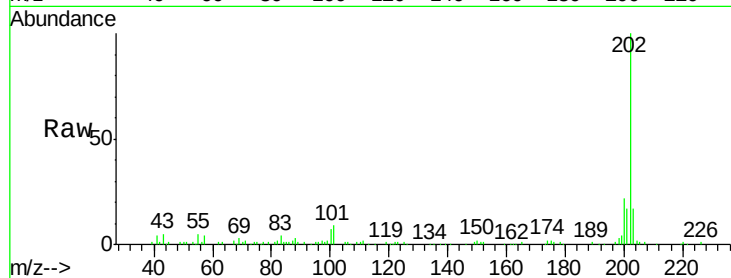
Tot Ion:202 Resp: 125095

Ion Ratio Lower Upper

202 100

200 21.9 17.7 26.5

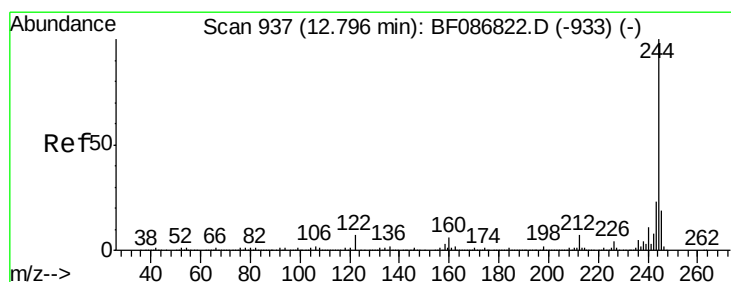
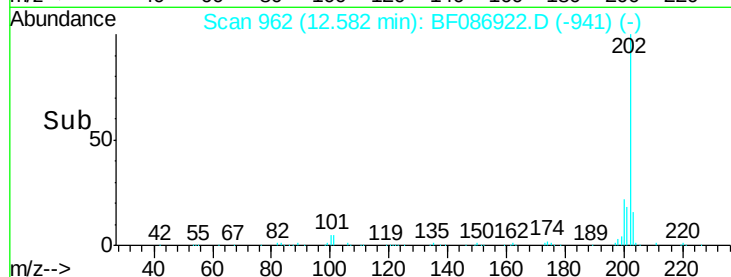
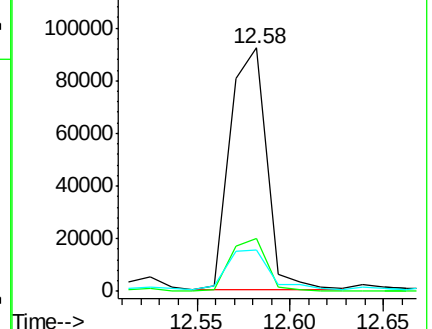
203 17.1 14.2 21.4



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: 1.86 ng

RT: 12.73 min Scan# 975

Delta R.T. -0.07 min

Lab File: BF086922.D

Acq: 12 May 2016 9:19

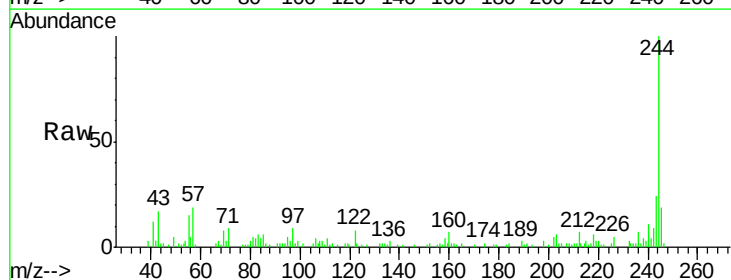
Tgt Ion:244 Resp: 28848

Ion Ratio Lower Upper

244 100

212 7.2 6.2 9.2

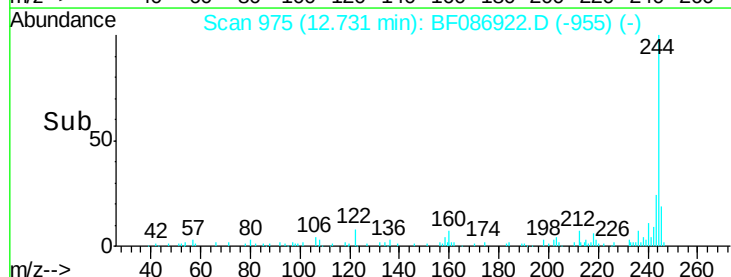
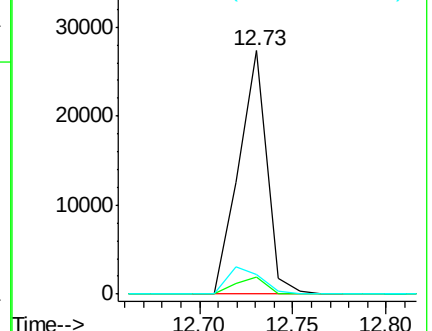
122 7.8 12.0 18.0#

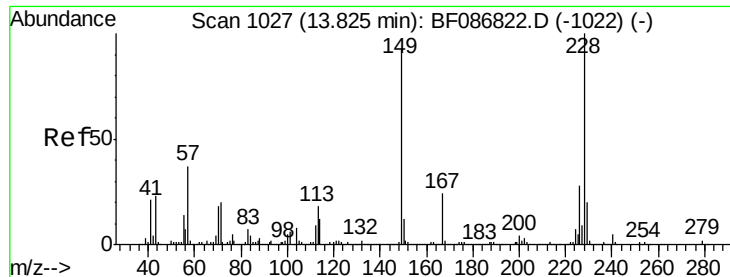


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

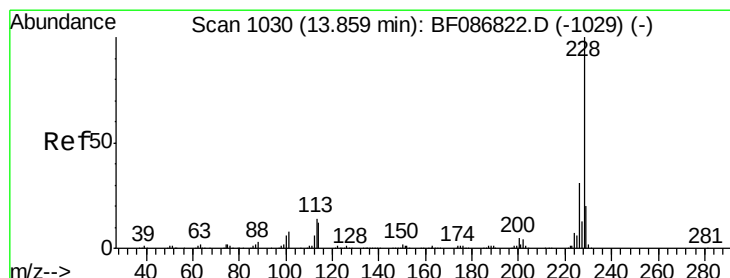
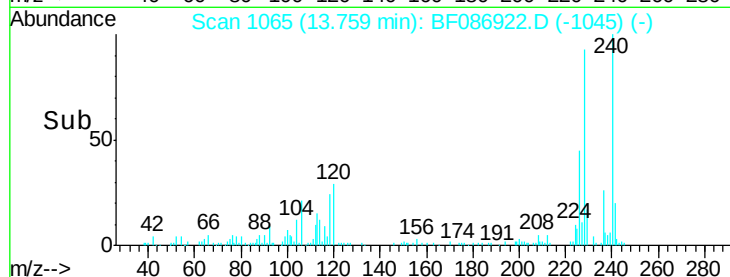
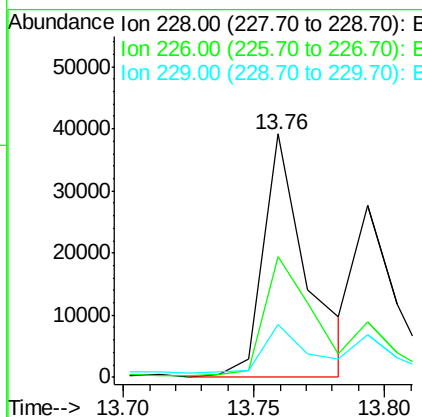
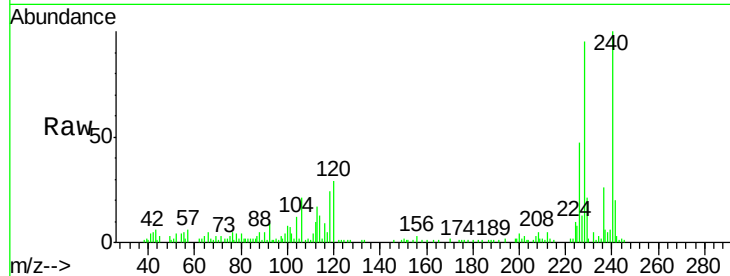




#80
 Benzo(a)anthracene
 Concen: 2.45 ng
 RT: 13.76 min Scan# 1065
 Delta R.T. -0.07 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

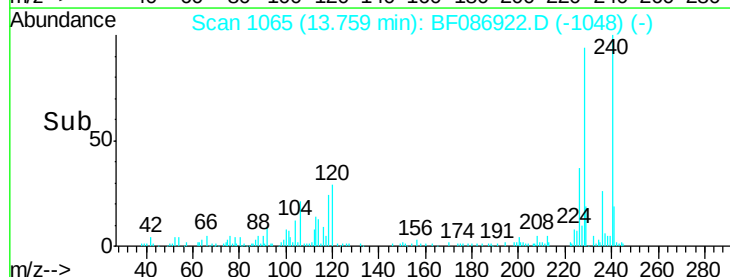
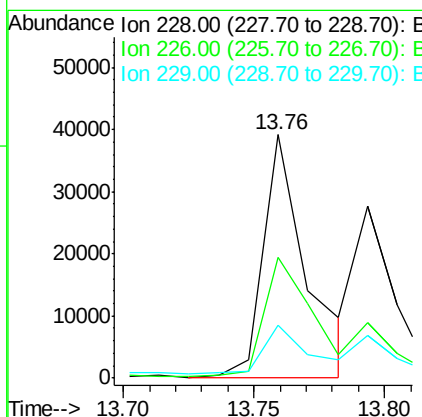
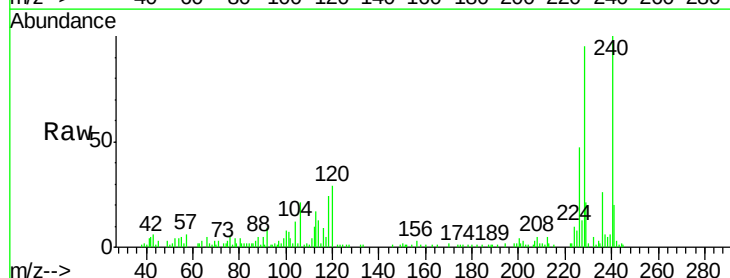
Instrument :
 BNA_F
 ClientSampleId :

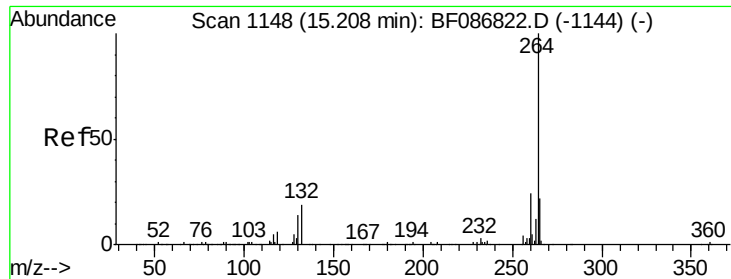
Tot Ion:228	Resp:	45418
Ion Ratio	Lower	Upper
228	100	
226	49.4	22.5 33.7#
229	21.8	16.6 25.0



#82
 Chrysene
 Concen: 2.41 ng
 RT: 13.76 min Scan# 1065
 Delta R.T. -0.10 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

Tgt Ion:228	Resp:	45418
Ion Ratio	Lower	Upper
228	100	
226	49.4	24.4 36.6#
229	21.8	15.8 23.8

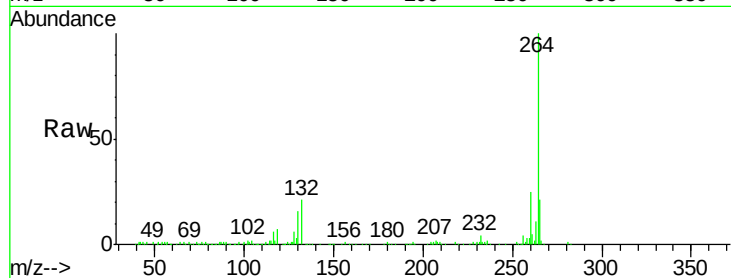




#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 15.13 min Scan# 1185
 Delta R.T. -0.08 min
 Lab File: BF086922.D
 Acq: 12 May 2016 9:19

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	21.5	17.3	25.9



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

