

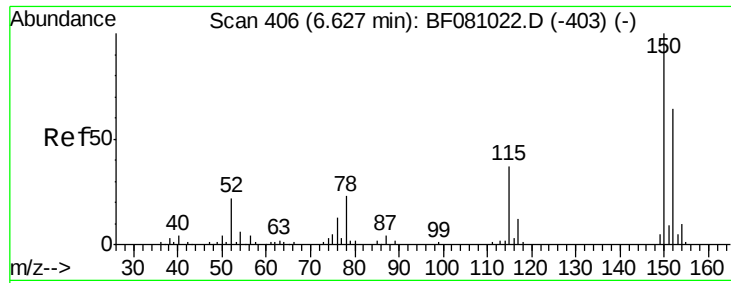
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082115\
 Data File : BF081146.D
 Acq On : 21 Aug 2015 15:34
 Operator : UM/IZ
 Sample : G3050-01DL 10X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 21 16:41:47 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 20 11:22:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.55	152	78227	20.00	ng	-0.03
21) Naphthalene-d8	7.84	136	285333	20.00	ng	-0.03
38) Acenaphthene-d10	9.59	164	149714	20.00	ng	-0.03
63) Phenanthrene-d10	11.05	188	277644	20.00	ng	-0.03
75) Chrysene-d12	13.66	240	263873	20.00	ng	-0.05
86) Perylene-d12	15.00	264	240392	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.11	112	41568	7.99	ng	-0.03
7) Phenol-d6	6.20	99	56309	8.30	ng	-0.03
23) Nitrobenzene-d5	7.12	82	49443	7.92	ng	-0.05
41) 2,4,6-Tribromophenol	10.37	330	7765	5.98	ng	-0.03
44) 2-Fluorobiphenyl	8.92	172	57958	5.07	ng	-0.05
78) Terphenyl-d14	12.63	244	57529	4.67	ng	-0.05
Target Compounds						
9) Benzaldehyde	6.07	77	17197	3.93	ng	# 1
18) Hexachloroethane	7.04	117	16560	6.77	ng	# 1
22) Acetophenone	6.96	105	101715	13.58	ng	# 42
24) Nitrobenzene	7.10	77	19268	2.95	ng	# 28
31) Naphthalene	7.86	128	279266	17.56	ng	# 97
33) 4-Chloroaniline	7.86	127	55852	8.32	ng	# 37
35) Caprolactam	8.30	113	23164	16.38	ng	# 46
37) 2-Methylnaphthalene	8.56	142	530106	52.76	ng	# 98
45) 1,1'-Biphenyl	9.02	154	69080	5.24	ng	# 98
47) 2-Nitroaniline	9.18	65	9657	2.23	ng	# 62
51) Acenaphthene	9.62	154	27858	2.46	ng	# 84
53) 2,4-Dinitrophenol	9.81	184	1040	3.49	ng	# 1
55) 4-Nitrophenol	9.70	139	20793	8.94	ng	# 34
56) 2,4-Dinitrotoluene	9.80	165	11849	3.38	ng	# 55
57) Fluorene	10.13	166	74570	6.38	ng	# 81
65) n-Nitrosodiphenylamine	10.25	169	129108	13.03	ng	# 41
70) Phenanthrene	11.09	178	178640	10.86	ng	# 95
77) Pyrene	12.47	202	48838	2.28	ng	# 78

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

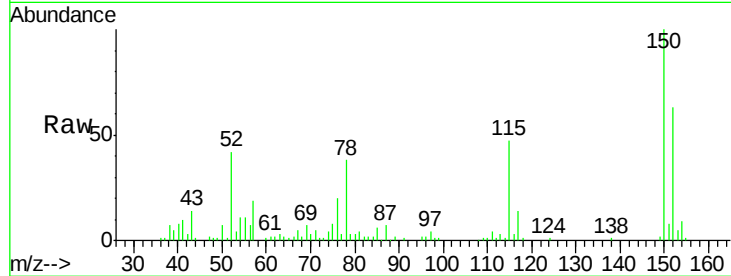


#1

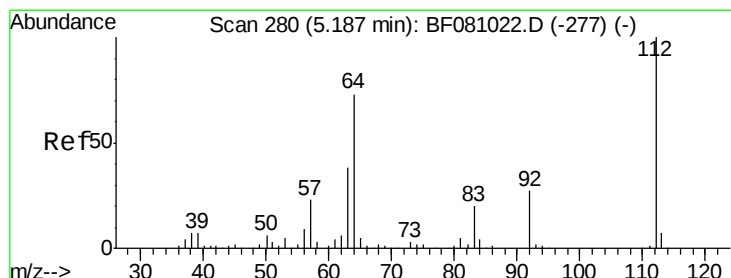
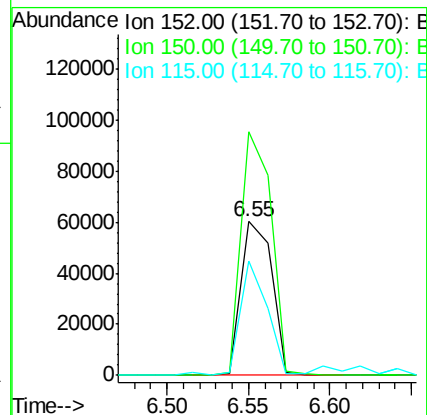
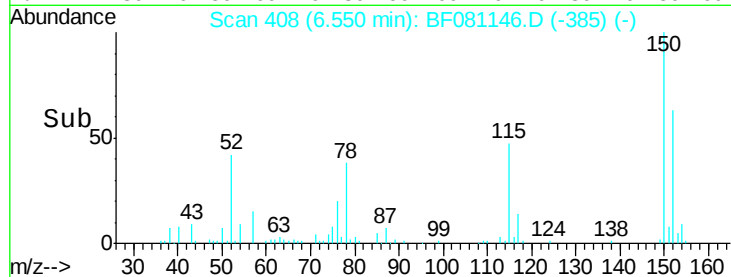
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.55 min Scan# 408
Delta R.T. -0.03 min
Lab File: BF081146.D
Acq: 21 Aug 2015 15:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 78227
Ion Ratio Lower Upper
152 100
150 158.2 123.8 185.6
115 74.2 52.1 78.1



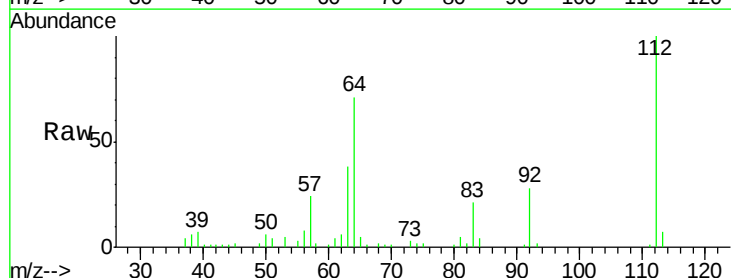
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



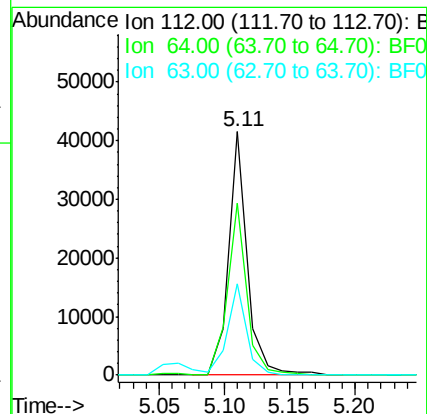
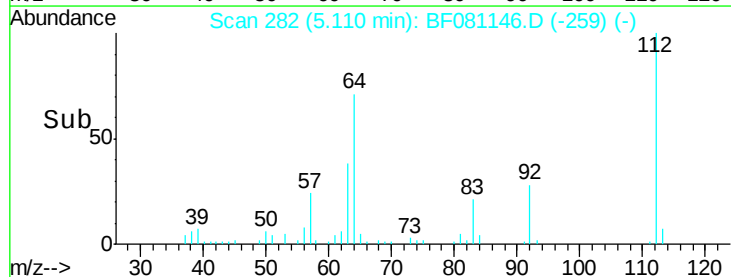
#5

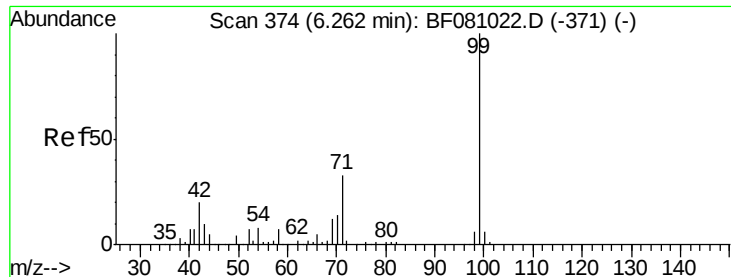
2-Fluorophenol
Concen: 7.99 ng
RT: 5.11 min Scan# 282
Delta R.T. -0.03 min
Lab File: BF081146.D
Acq: 21 Aug 2015 15:34

Tgt Ion:112 Resp: 41568
Ion Ratio Lower Upper
112 100
64 70.6 66.9 100.3
63 37.5 38.1 57.1#



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: 8.30 ng

RT: 6.20 min Scan# 377

Delta R.T. -0.03 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

Instrument :

BNA_F

ClientSampleId :

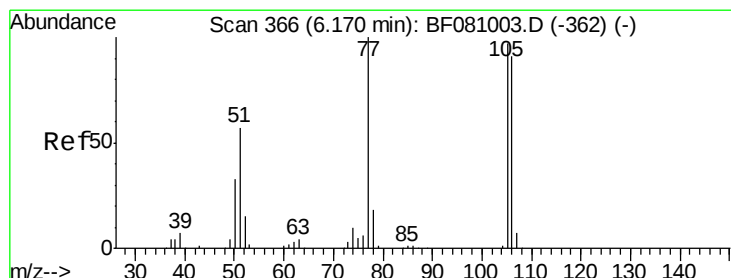
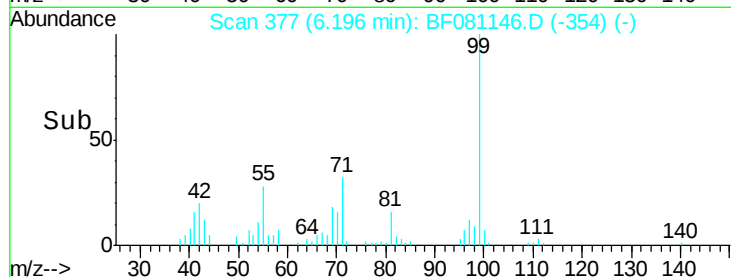
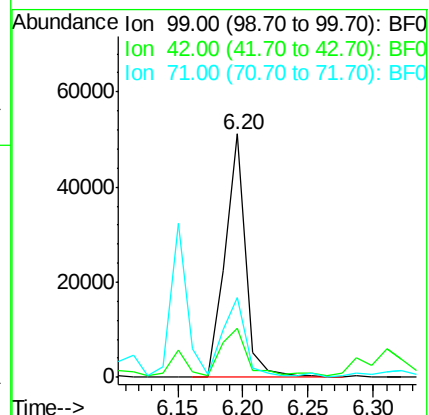
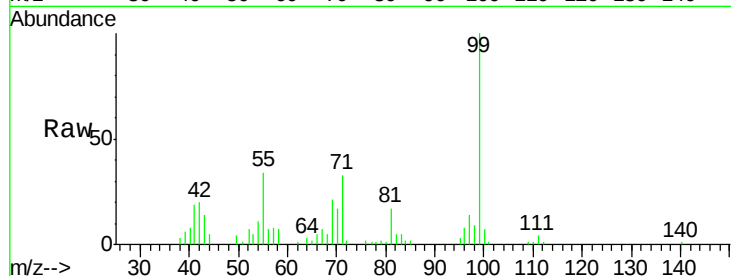
Tot Ion: 99 Resp: 56309

Ion Ratio Lower Upper

99 100

42 20.1 19.6 29.4

71 32.6 31.2 46.8



#9

Benzaldehyde

Concen: 3.93 ng

RT: 6.07 min Scan# 366

Delta R.T. -0.06 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

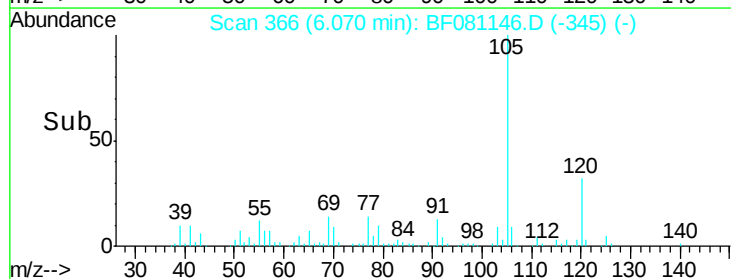
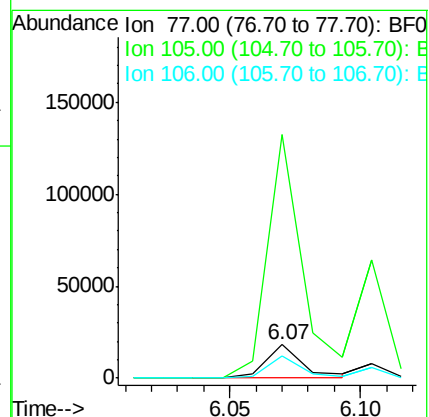
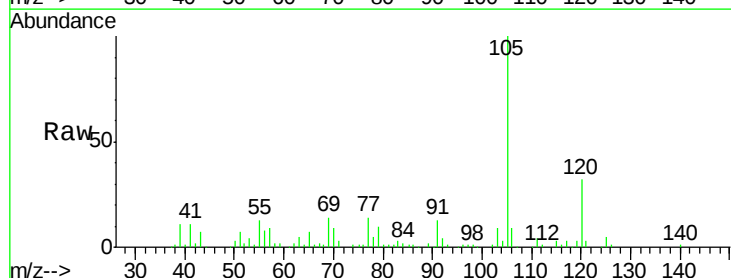
Tgt Ion: 77 Resp: 17197

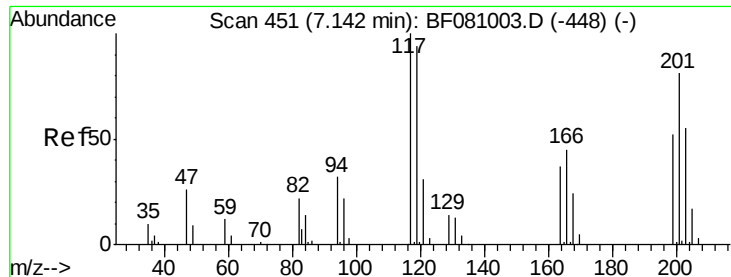
Ion Ratio Lower Upper

77 100

105 734.7 69.6 109.6#

106 68.5 64.0 104.0

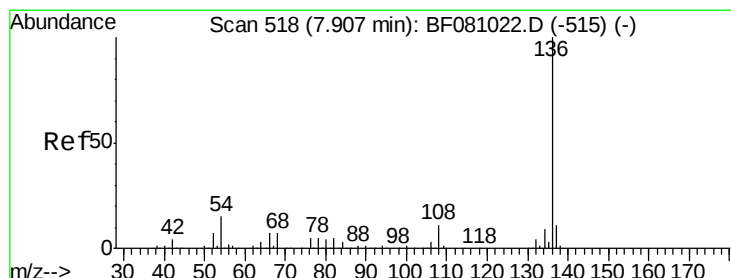
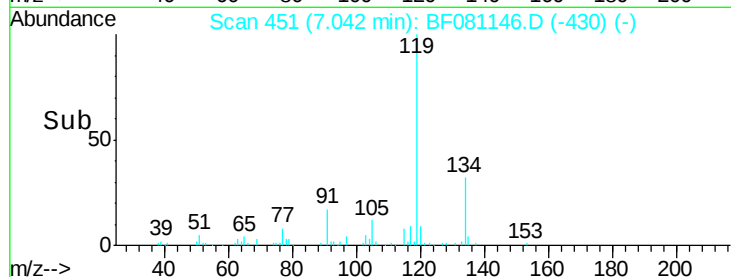
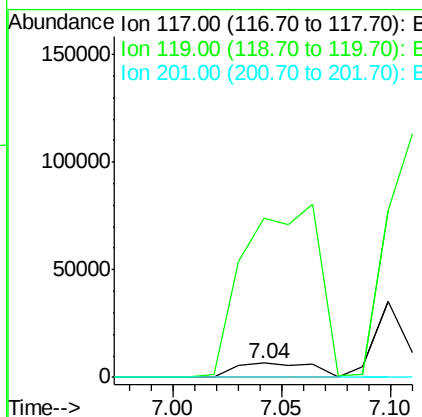
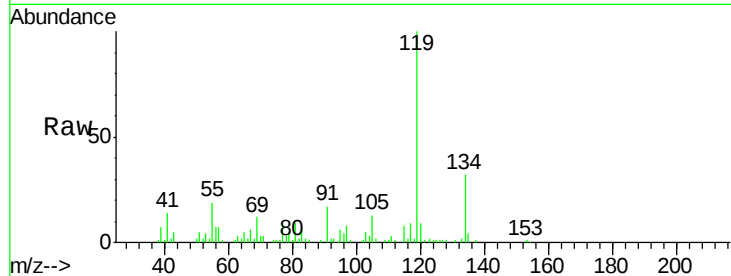




#18
Hexachloroethane
Concen: 6.77 ng
RT: 7.04 min Scan# 451
Delta R.T. -0.06 min
Lab File: BF081146.D
Acq: 21 Aug 2015 15:34

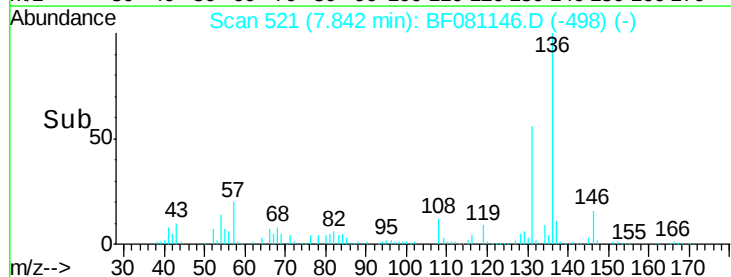
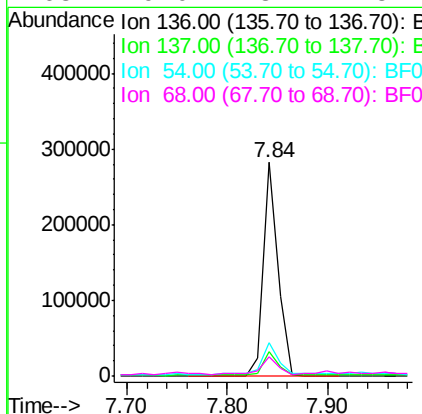
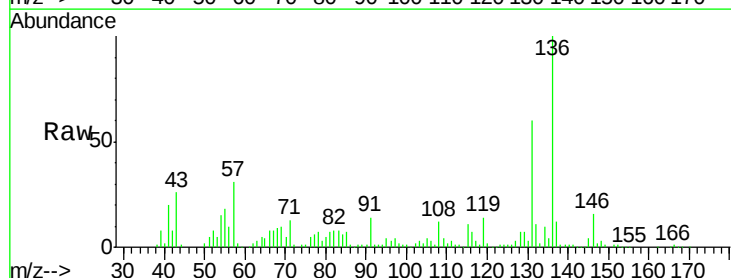
Instrument :
BNA_F
ClientSampled :

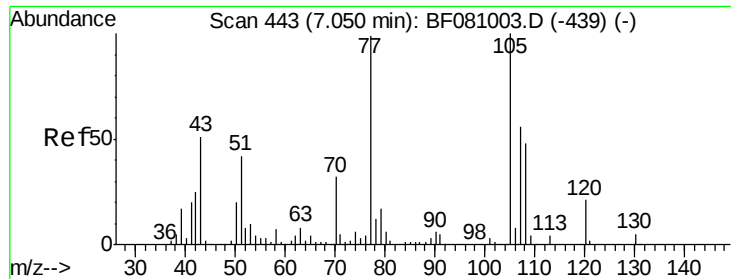
Tot Ion:117 Resp: 16560
Ion Ratio Lower Upper
117 100
119 1110.9 77.9 116.9#
201 0.0 61.3 91.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.84 min Scan# 521
Delta R.T. -0.03 min
Lab File: BF081146.D
Acq: 21 Aug 2015 15:34

Tgt Ion:136 Resp: 285333
Ion Ratio Lower Upper
136 100
137 11.6 8.2 12.2
54 15.4 7.7 11.5#
68 9.0 3.4 5.2#

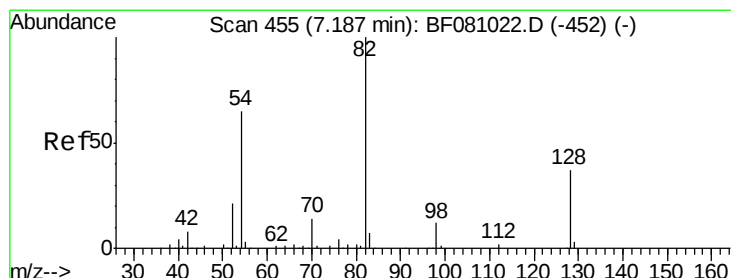
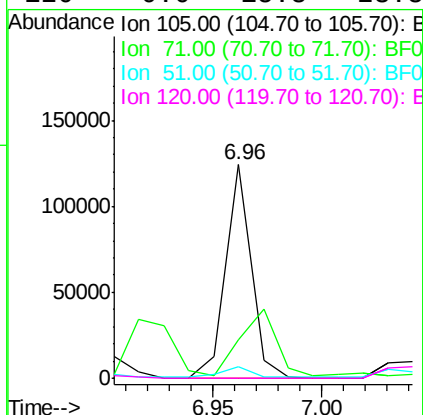
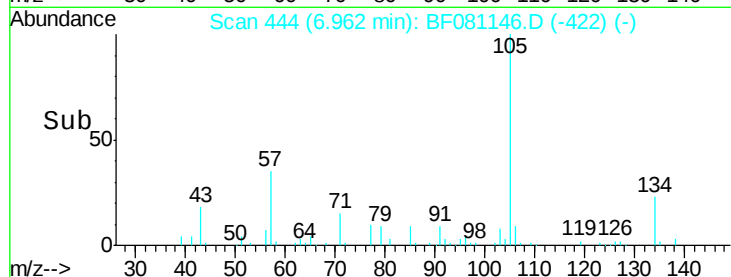
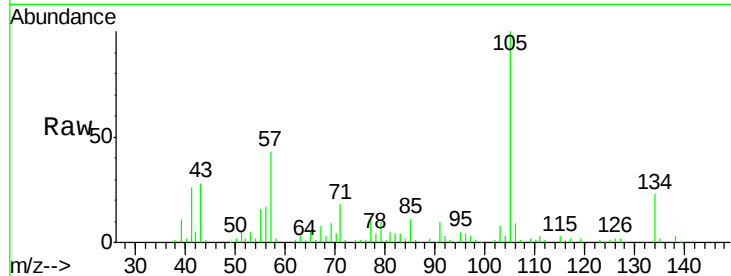




#22
Acetophenone
Concen: 13.58 ng
RT: 6.96 min Scan# 444
Delta R.T. -0.05 min
Lab File: BF081146.D
Acq: 21 Aug 2015 15:34

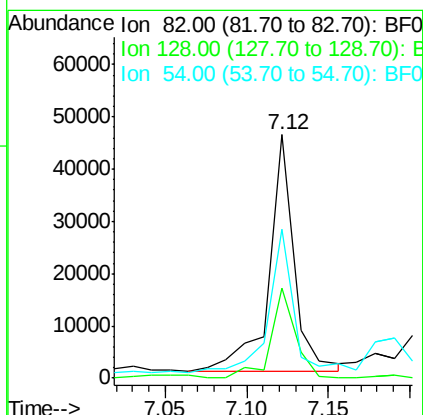
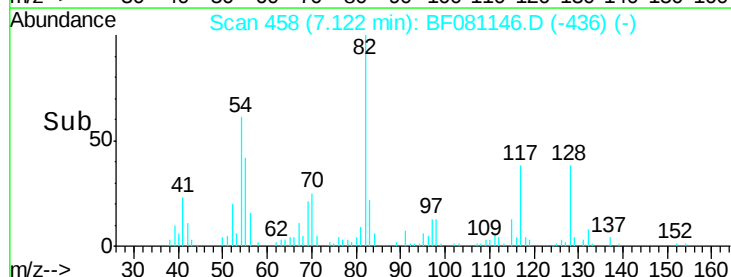
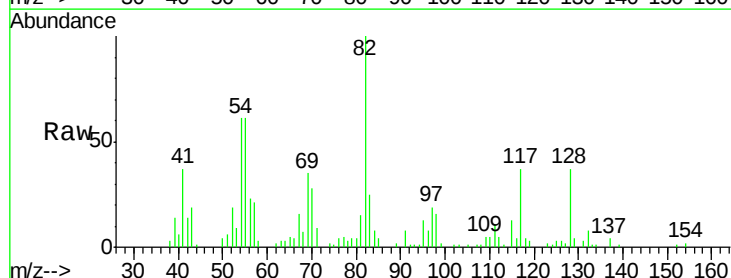
Instrument :
BNA_F
ClientSampleId :

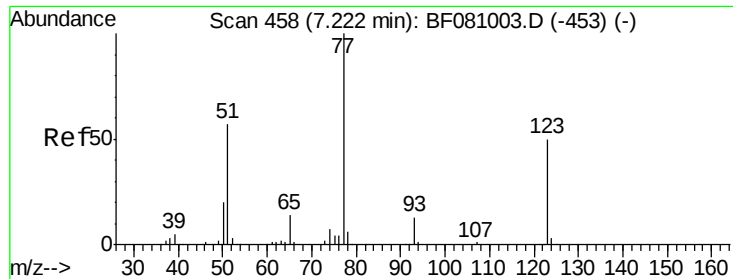
Tot Ion:105 Resp: 101715
Ion Ratio Lower Upper
105 100
71 17.9 3.0 4.6#
51 5.4 39.8 59.8#
120 0.0 15.8 23.8#



#23
Nitrobenzene-d5
Concen: 7.92 ng
RT: 7.12 min Scan# 458
Delta R.T. -0.05 min
Lab File: BF081146.D
Acq: 21 Aug 2015 15:34

Tgt Ion: 82 Resp: 49443
Ion Ratio Lower Upper
82 100
128 37.2 28.6 42.8
54 61.3 55.1 82.7

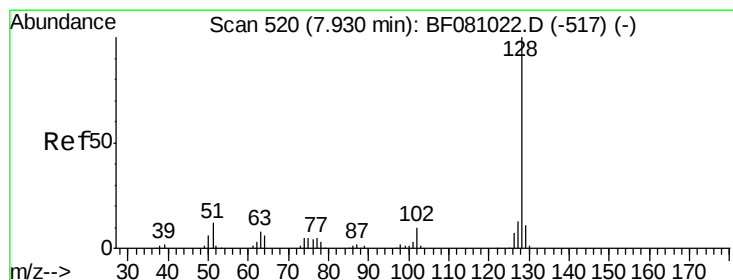
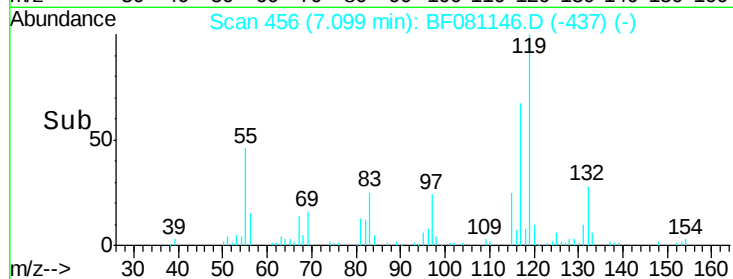
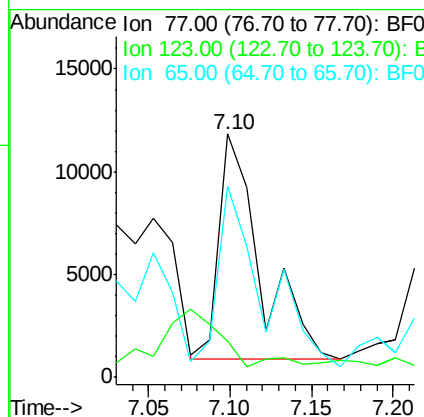
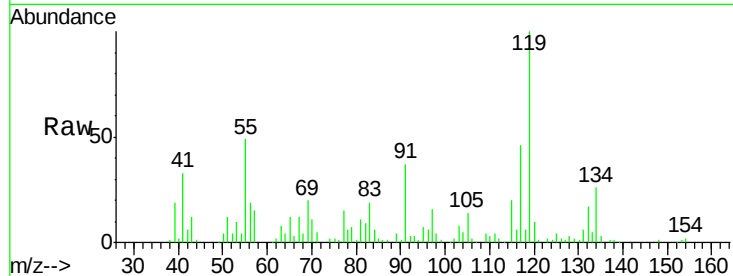




#24
 Nitrobenzene
 Concen: 2.95 ng
 RT: 7.10 min Scan# 456
 Delta R.T. -0.08 min
 Lab File: BF081146.D
 Acq: 21 Aug 2015 15:34

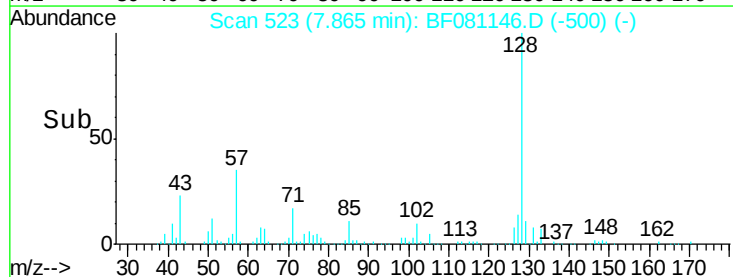
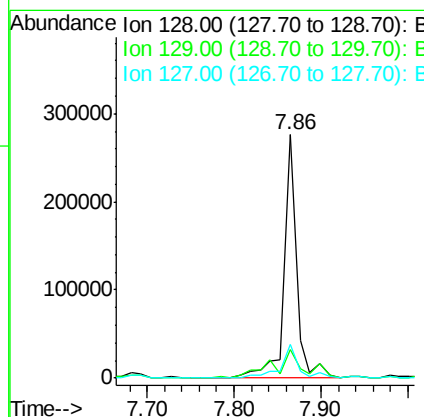
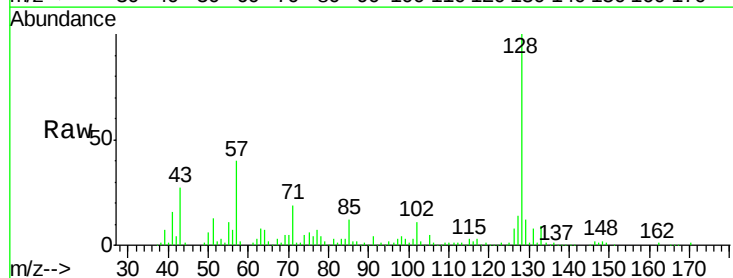
Instrument :
 BNA_F
 ClientSampleId :

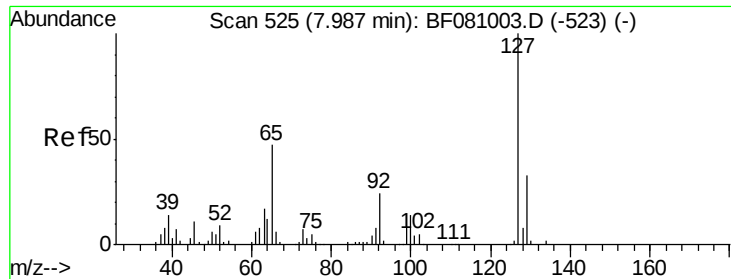
Tot Ion	77	Resp	19268
Ion Ratio	Lower	Upper	
77	100		
123	14.7	32.9	49.3#
65	78.4	12.5	18.7#



#31
 Naphthalene
 Concen: 17.56 ng
 RT: 7.86 min Scan# 523
 Delta R.T. -0.03 min
 Lab File: BF081146.D
 Acq: 21 Aug 2015 15:34

Tgt Ion	128	Resp	279266
Ion Ratio	Lower	Upper	
128	100		
129	11.9	8.4	12.6
127	13.9	10.6	16.0

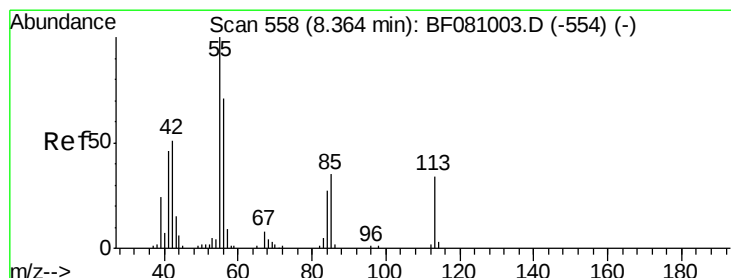
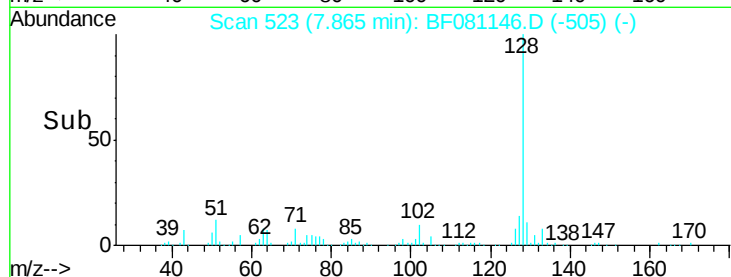
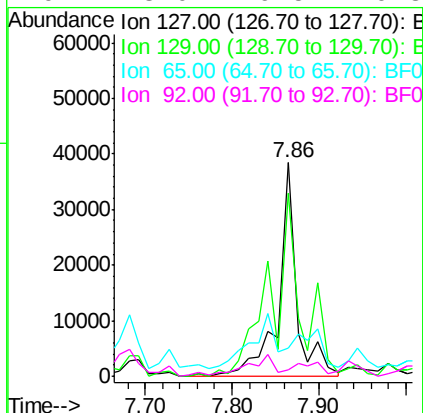
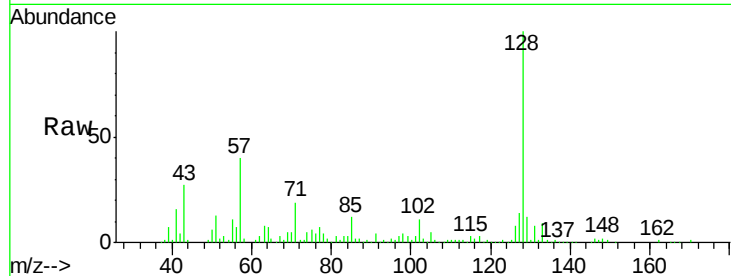




#33
4-Chloroaniline
Concen: 8.32 ng
RT: 7.86 min Scan# 523
Delta R.T. -0.09 min
Lab File: BF081146.D
Acq: 21 Aug 2015 15:34

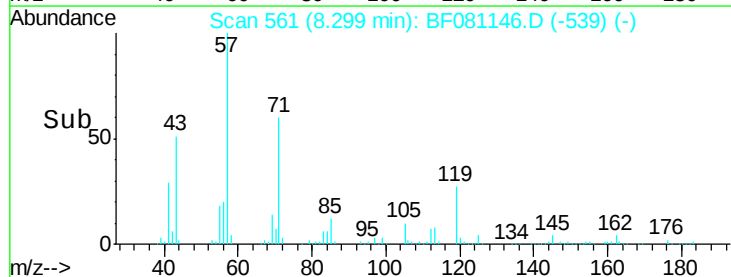
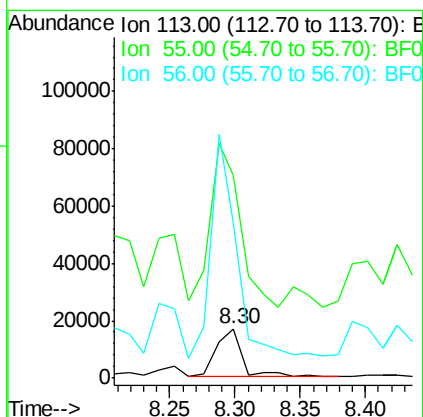
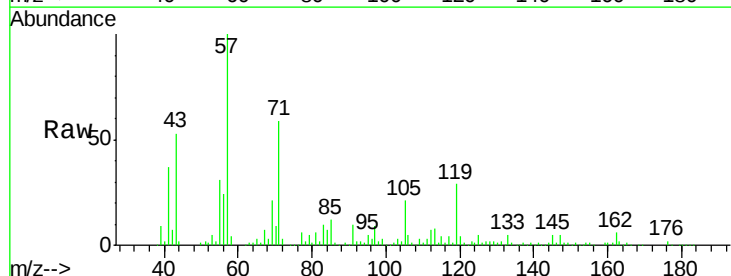
Instrument :
BNA_F
ClientSampled :

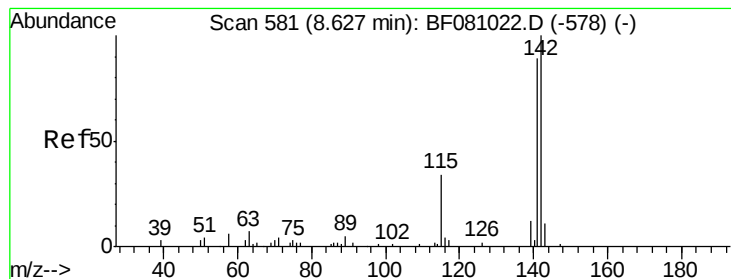
Tot Ion:127	Resp:	55852
Ion Ratio	Lower	Upper
127	100	
129	85.6	25.2 37.8#
65	13.4	37.8 56.6#
92	3.0	19.5 29.3#



#35
Caprolactam
Concen: 16.38 ng
RT: 8.30 min Scan# 561
Delta R.T. -0.05 min
Lab File: BF081146.D
Acq: 21 Aug 2015 15:34

Tgt Ion:113	Resp:	23164
Ion Ratio	Lower	Upper
113	100	
55	408.4	280.4 320.4#
56	312.5	205.9 245.9#

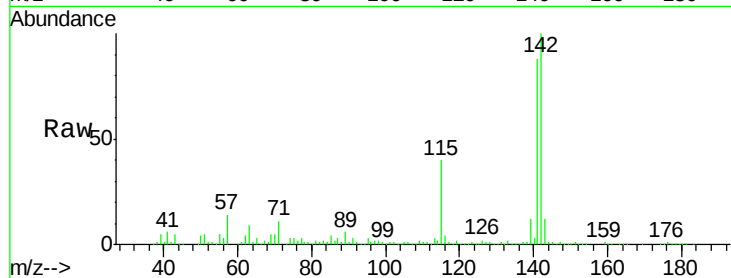




#37
 2-Methylnaphthalene
 Concen: 52.76 ng
 RT: 8.56 min Scan# 584
 Delta R.T. -0.02 min
 Lab File: BF081146.D
 Acq: 21 Aug 2015 15:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.4	107.2
115	39.5	33.4	50.0

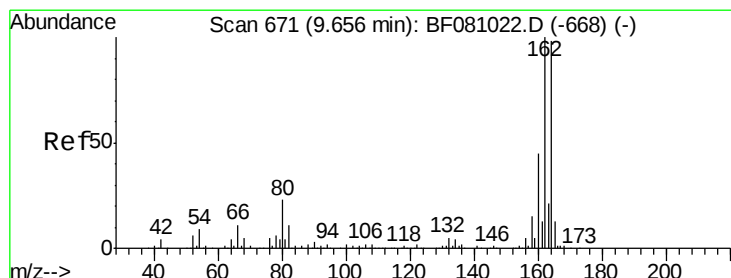
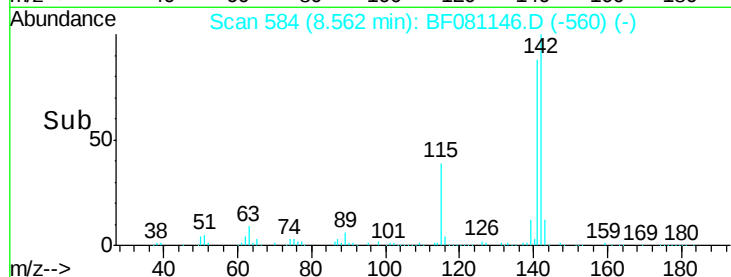
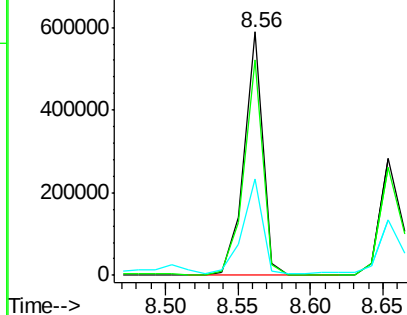


Abundance

Ion 142.00 (141.70 to 142.70): E

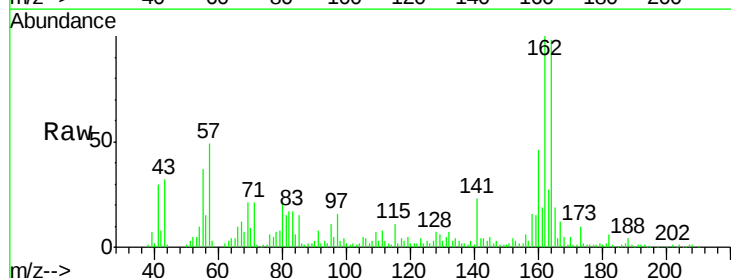
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.59 min Scan# 674
 Delta R.T. -0.03 min
 Lab File: BF081146.D
 Acq: 21 Aug 2015 15:34

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	83.8	125.8
160	47.0	39.8	59.8

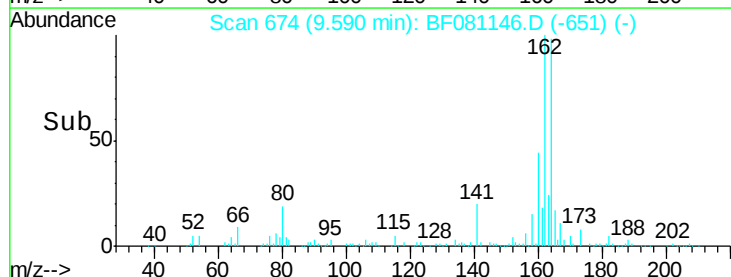
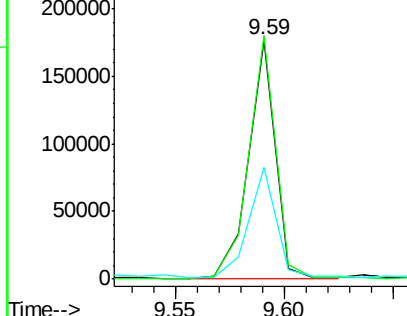


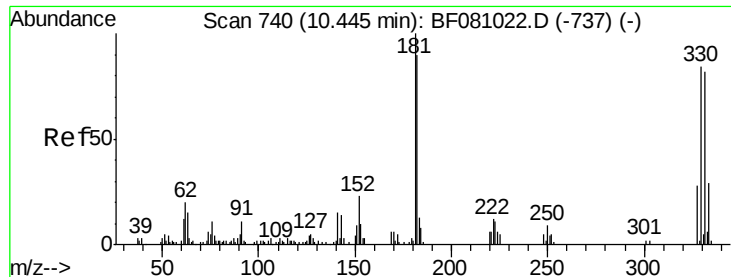
Abundance

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: 5.98 ng

RT: 10.37 min Scan# 742

Delta R.T. -0.03 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

Instrument :
BNA_F
ClientSampled :

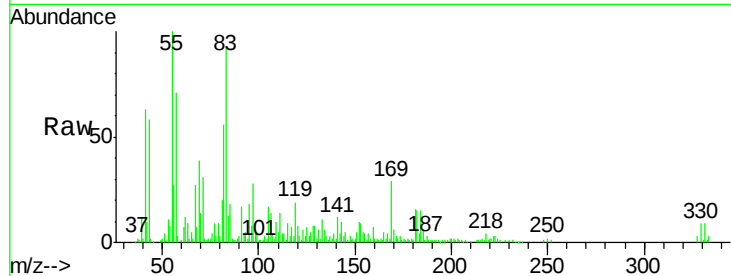
Tot Ion:330 Resp: 7765

Ion Ratio Lower Upper

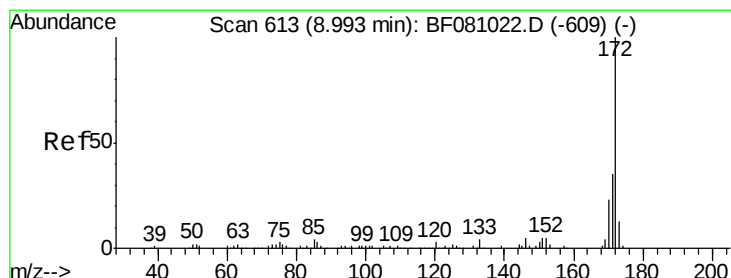
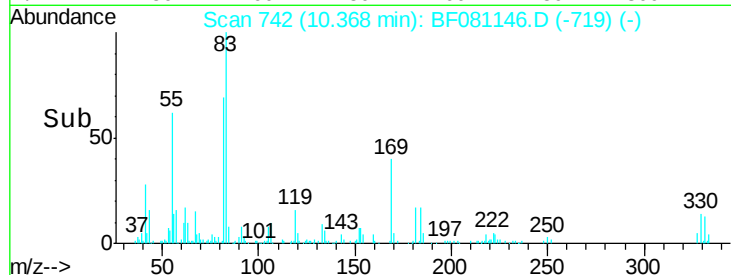
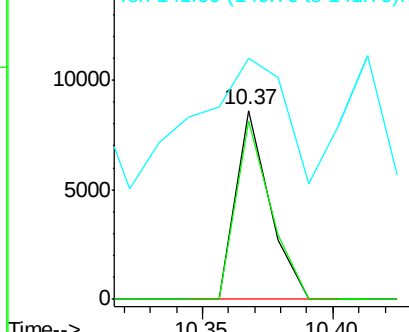
330 100

332 97.8 77.3 115.9

141 179.1 44.9 67.3#



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



#44

2-Fluorobiphenyl

Concen: 5.07 ng

RT: 8.92 min Scan# 615

Delta R.T. -0.05 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

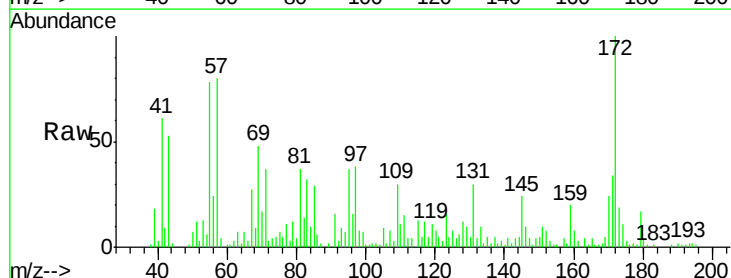
Tgt Ion:172 Resp: 57958

Ion Ratio Lower Upper

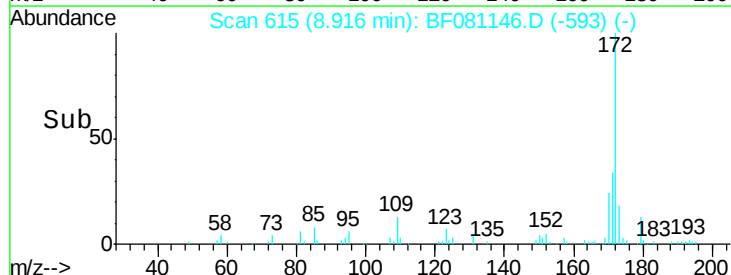
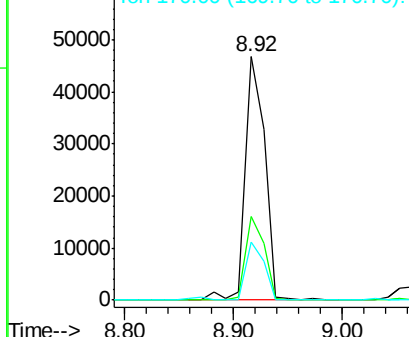
172 100

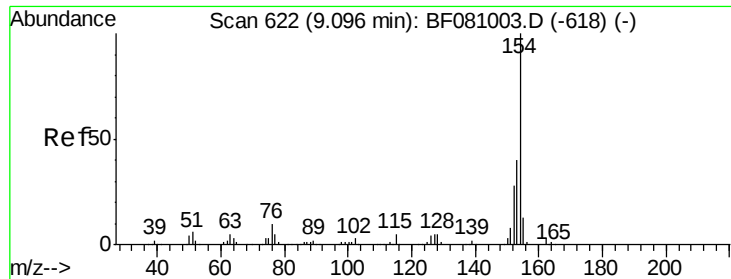
171 34.3 28.9 43.3

170 24.1 19.4 29.2



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: 5.24 ng

RT: 9.02 min Scan# 624

Delta R.T. -0.03 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

Instrument :

BNA_F

ClientSampled :

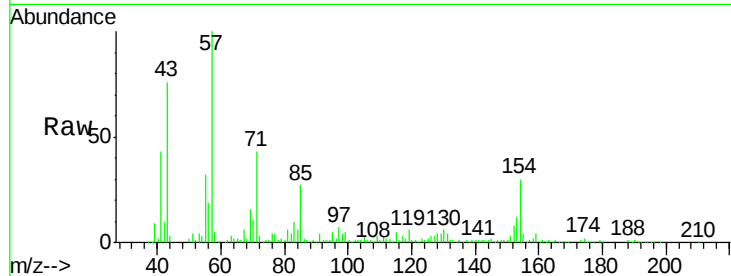
Tot Ion:154 Resp: 69080

Ion Ratio Lower Upper

154 100

153 38.9 19.5 59.5

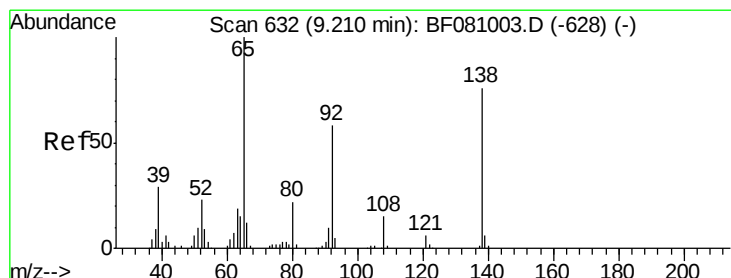
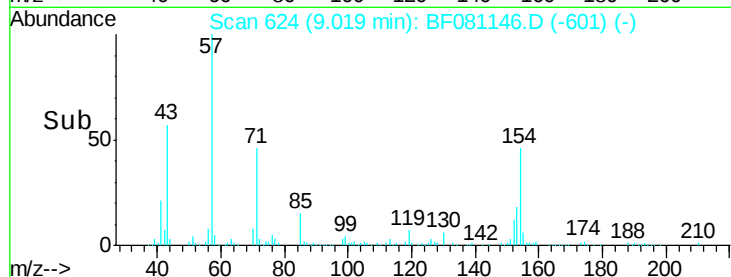
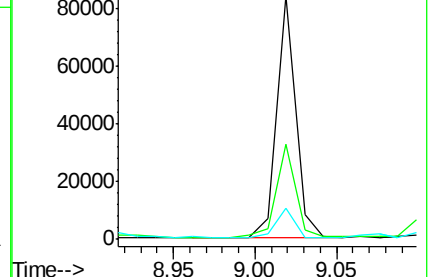
76 12.6 0.0 29.3



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



#47

2-Nitroaniline

Concen: 2.23 ng

RT: 9.18 min Scan# 638

Delta R.T. -0.00 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

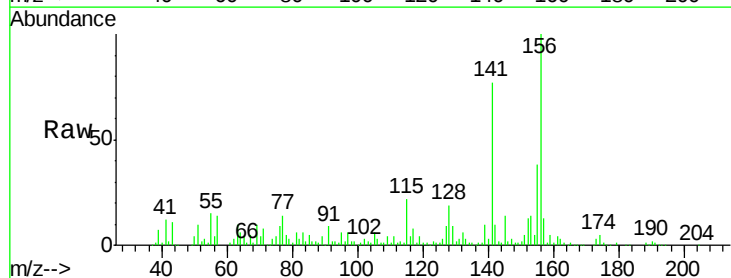
Tgt Ion: 65 Resp: 9657

Ion Ratio Lower Upper

65 100

92 62.5 45.6 68.4

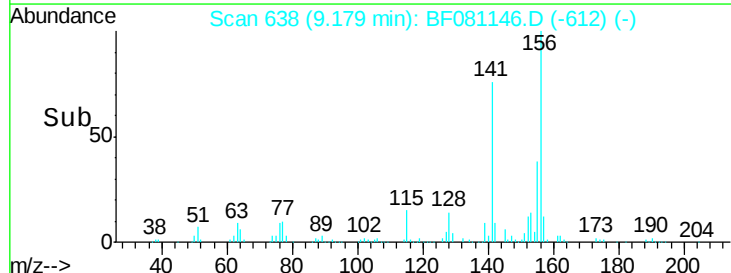
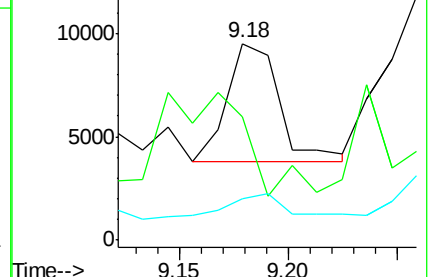
138 20.9 57.9 86.9#

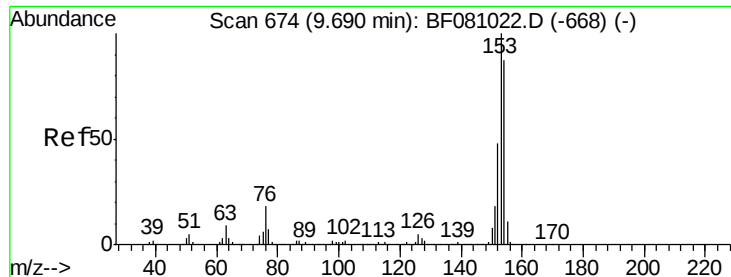


Abundance Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

Ion 138.00 (137.70 to 138.70): E





#51

Acenaphthene

Concen: 2.46 ng

RT: 9.62 min Scan# 677

Delta R.T. -0.03 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

Instrument :

BNA_F

ClientSampled :

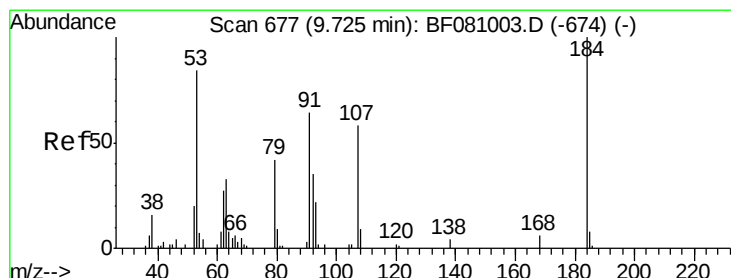
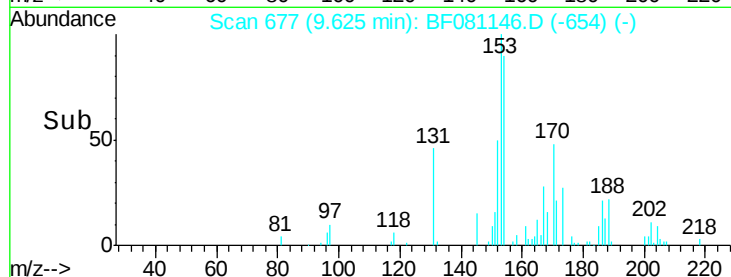
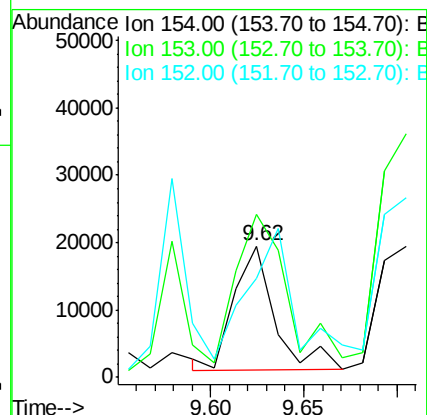
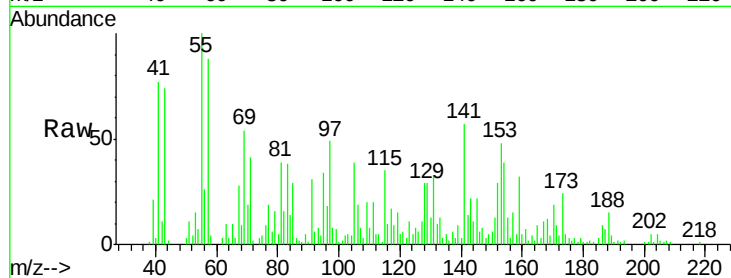
Tot Ion:154 Resp: 27858

Ion Ratio Lower Upper

154 100

153 124.4 91.4 137.2

152 75.7 43.7 65.5#



#53

2,4-Dinitrophenol

Concen: 3.49 ng

RT: 9.81 min Scan# 693

Delta R.T. 0.11 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

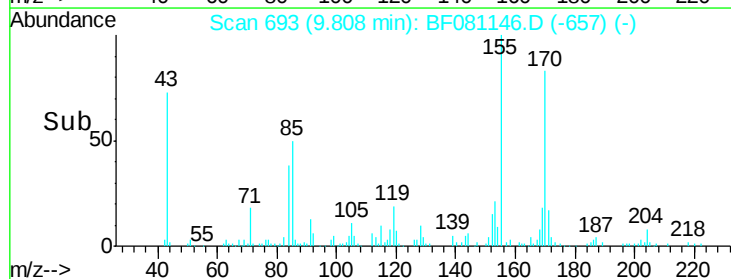
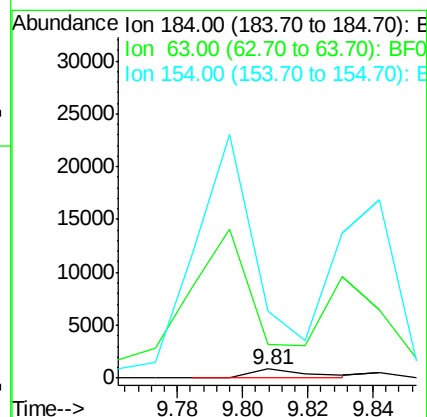
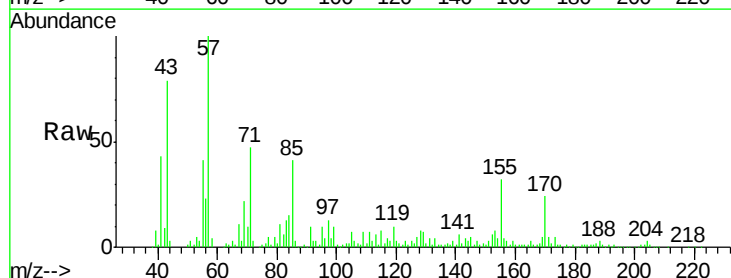
Tgt Ion:184 Resp: 1040

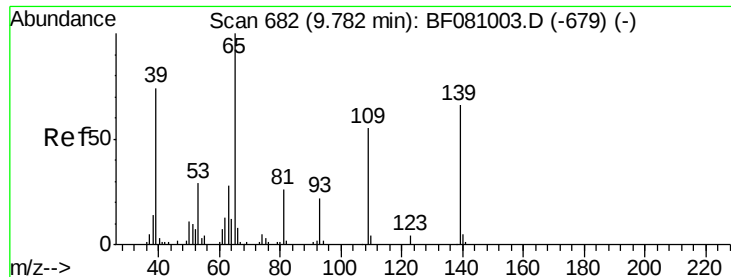
Ion Ratio Lower Upper

184 100

63 369.6 101.7 152.5#

154 740.1 67.4 101.0#

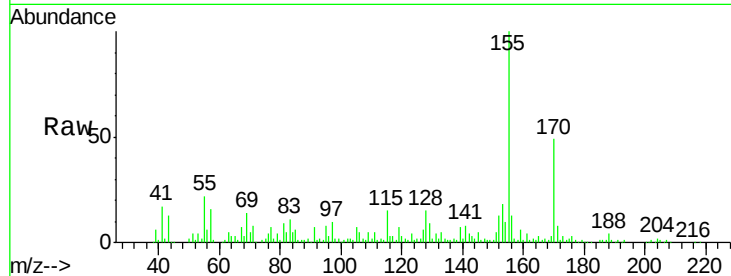




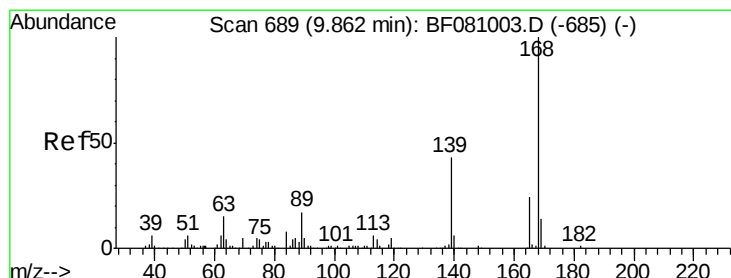
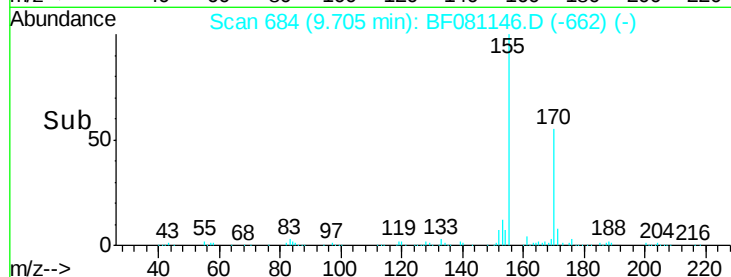
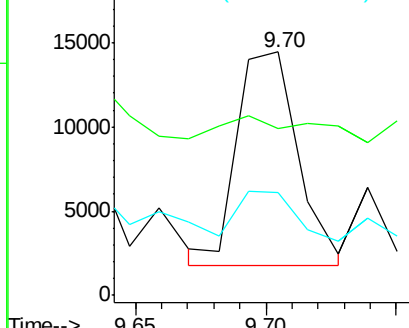
#55
4-Nitrophenol
Concen: 8.94 ng
RT: 9.70 min Scan# 684
Delta R.T. -0.05 min
Lab File: BF081146.D
Acq: 21 Aug 2015 15:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 20793
Ion Ratio Lower Upper
139 100
109 68.6 80.0 120.0#
65 42.4 138.3 178.3#

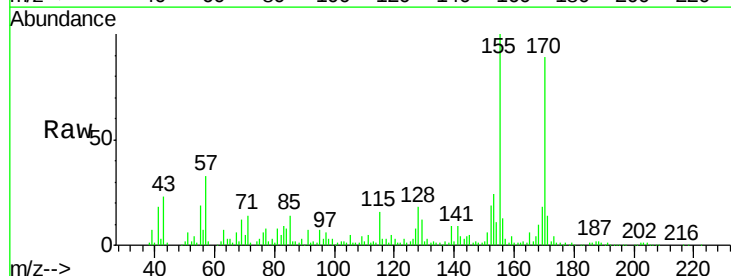


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

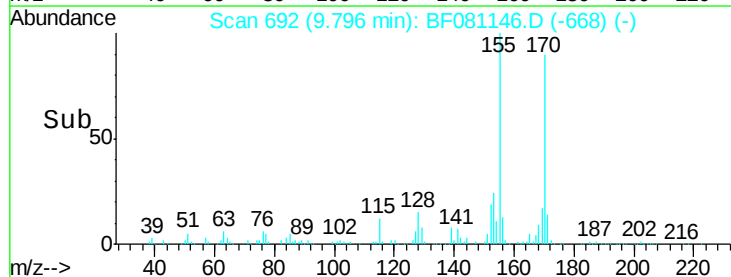
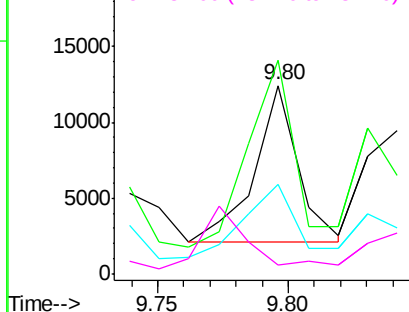


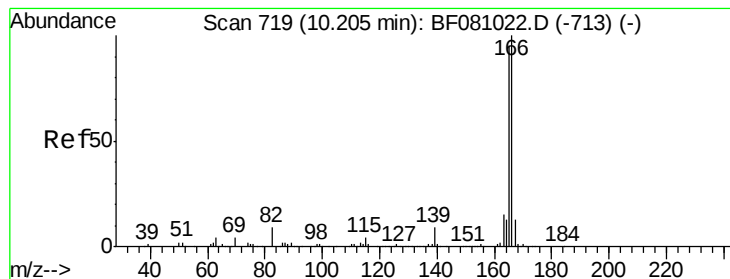
#56
2,4-Dinitrotoluene
Concen: 3.38 ng
RT: 9.80 min Scan# 692
Delta R.T. -0.02 min
Lab File: BF081146.D
Acq: 21 Aug 2015 15:34

Tgt Ion:165 Resp: 11849
Ion Ratio Lower Upper
165 100
63 113.4 52.2 78.4#
89 47.5 60.1 90.1#
182 4.9 1.8 2.6#



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
Ion 182.00 (181.70 to 182.70): E





#57

Fluorene

Concen: 6.38 ng

RT: 10.13 min Scan# 721

Delta R.T. -0.03 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

Instrument :

BNA_F

ClientSampleId :

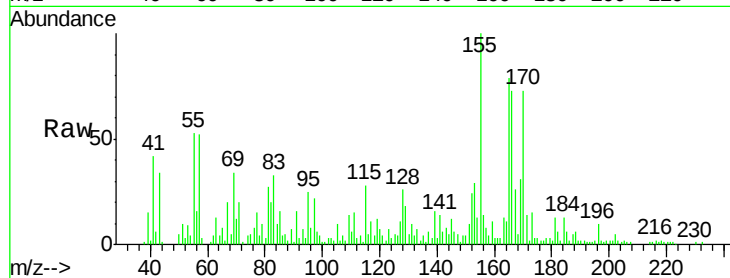
Tot Ion:166 Resp: 74570

Ion Ratio Lower Upper

166 100

165 108.6 75.8 113.8

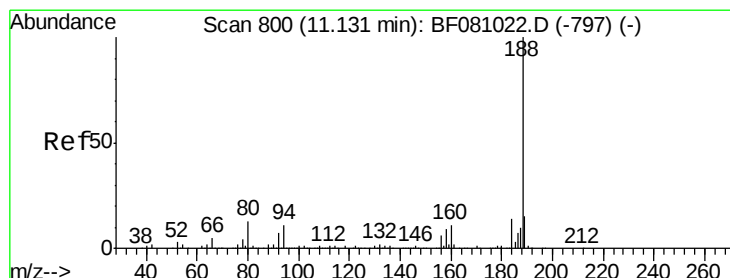
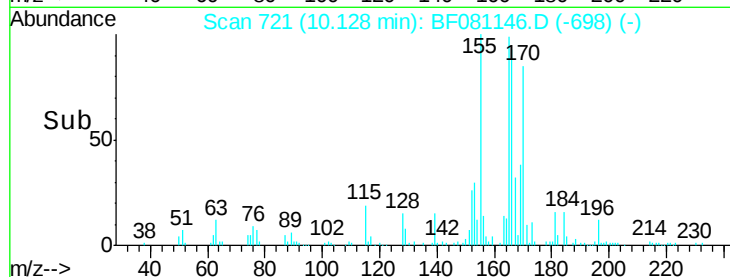
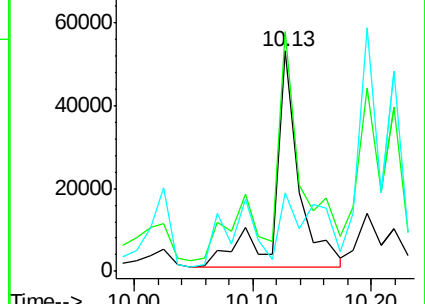
167 35.9 11.3 16.9#



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: 11.05 min Scan# 802

Delta R.T. -0.03 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

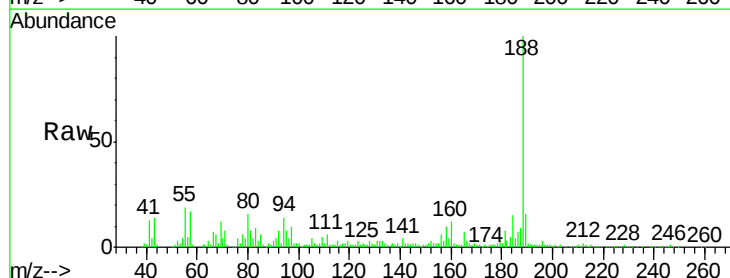
Tgt Ion:188 Resp: 277644

Ion Ratio Lower Upper

188 100

94 14.1 8.2 12.2#

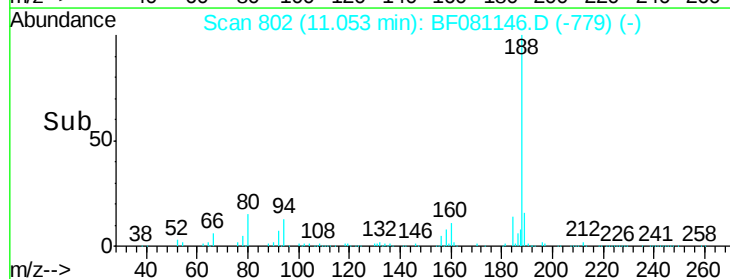
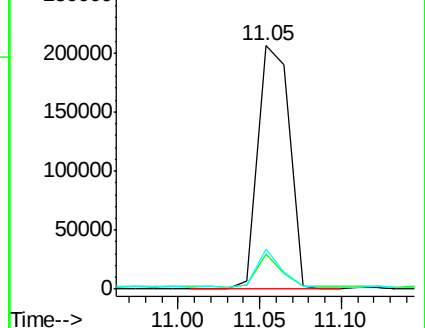
80 16.2 9.5 14.3#

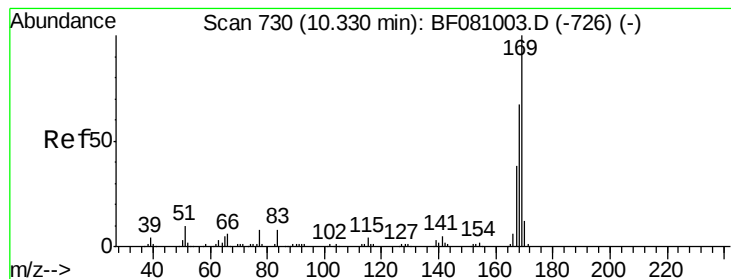


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

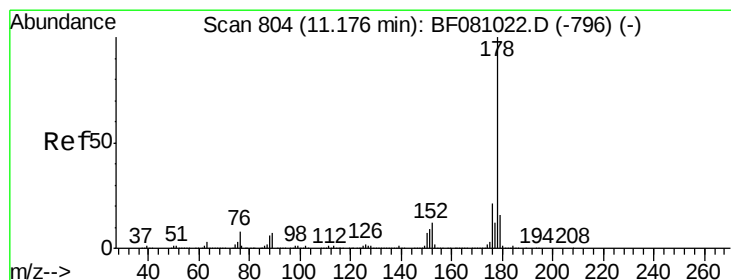
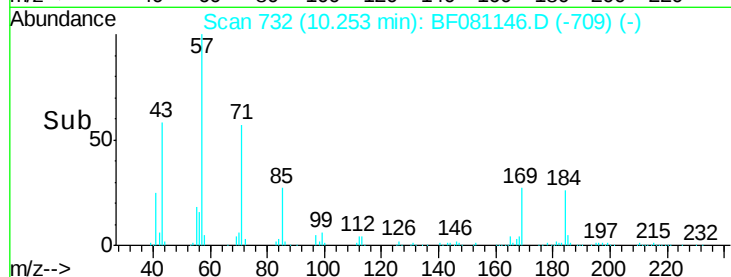
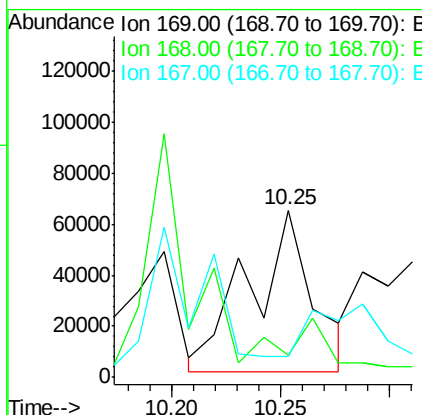
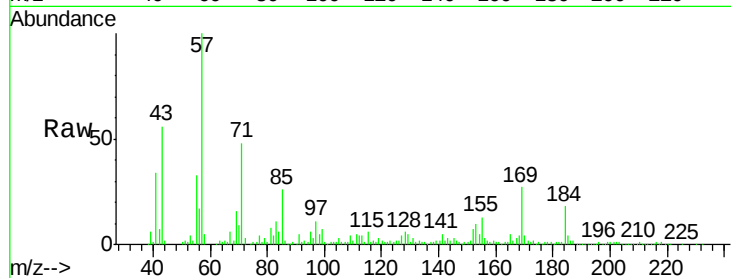




#65
 n-Nitrosodiphenylamine
 Concen: 13.03 ng
 RT: 10.25 min Scan# 732
 Delta R.T. -0.03 min
 Lab File: BF081146.D
 Acq: 21 Aug 2015 15:34

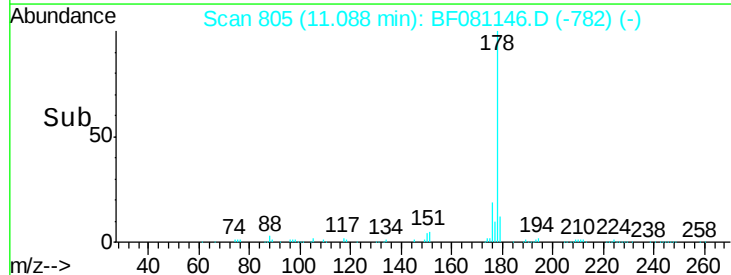
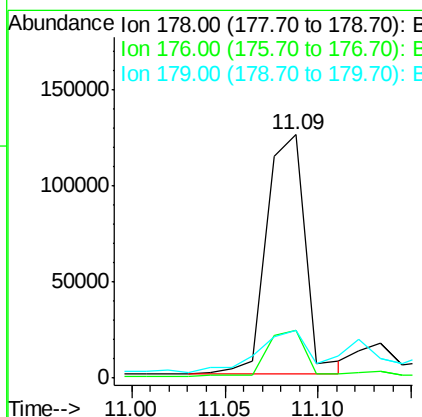
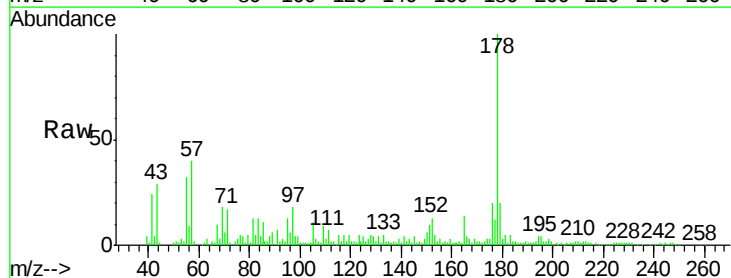
Instrument :
 BNA_F
 ClientSampleId :

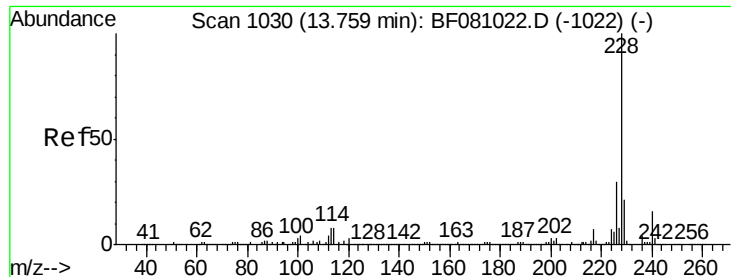
Tot Ion:169 Resp: 129108
 Ion Ratio Lower Upper
 169 100
 168 13.6 55.3 82.9#
 167 12.3 30.8 46.2#



#70
 Phenanthrene
 Concen: 10.86 ng
 RT: 11.09 min Scan# 805
 Delta R.T. -0.03 min
 Lab File: BF081146.D
 Acq: 21 Aug 2015 15:34

Tgt Ion:178 Resp: 178640
 Ion Ratio Lower Upper
 178 100
 176 19.8 15.7 23.5
 179 19.8 12.2 18.2#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.66 min Scan# 1030

Delta R.T. -0.05 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

Instrument :

BNA_F

ClientSampleId :

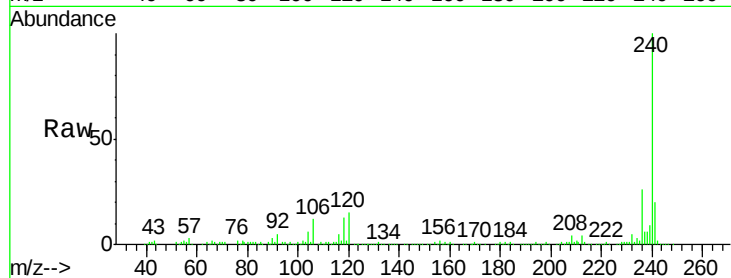
Tot Ion:240 Resp: 263873

Ion Ratio Lower Upper

240 100

120 14.9 5.6 8.4#

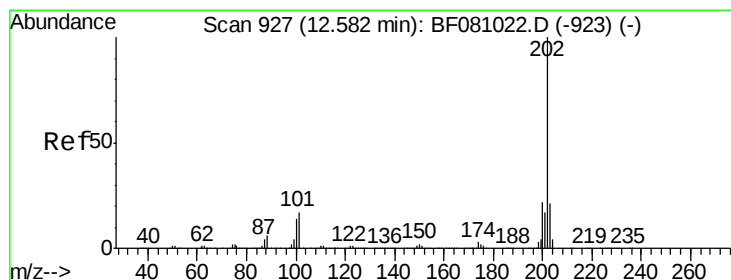
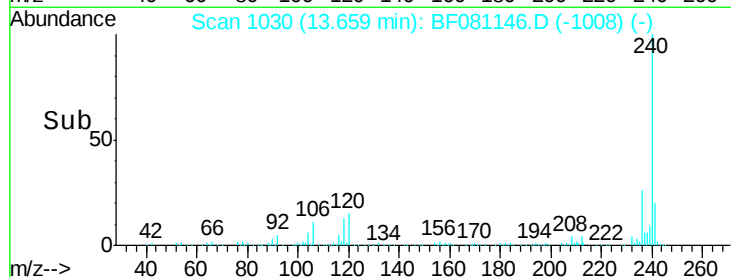
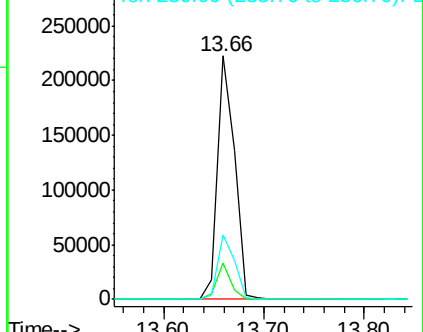
236 26.4 20.6 30.8



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: 2.28 ng

RT: 12.47 min Scan# 926

Delta R.T. -0.05 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

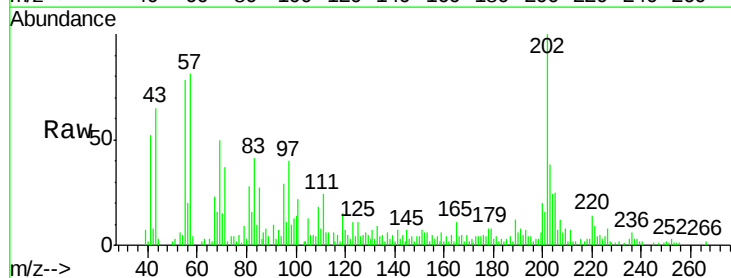
Tgt Ion:202 Resp: 48838

Ion Ratio Lower Upper

202 100

200 20.3 16.6 24.8

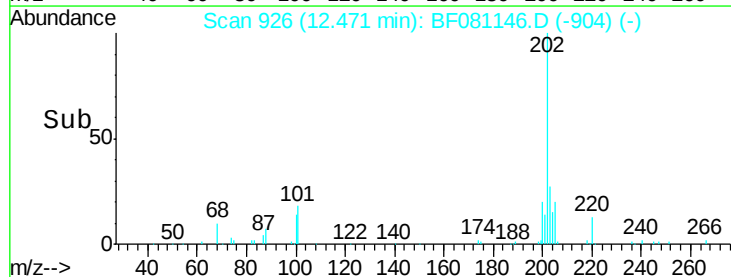
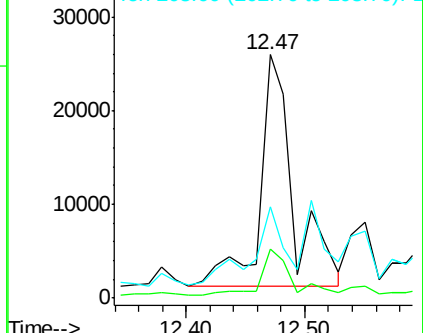
203 37.7 14.1 21.1#

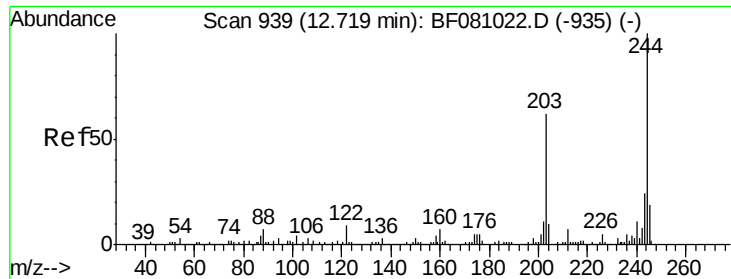


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.67 ng

RT: 12.63 min Scan# 940

Delta R.T. -0.05 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

Instrument :

BNA_F

ClientSampleId :

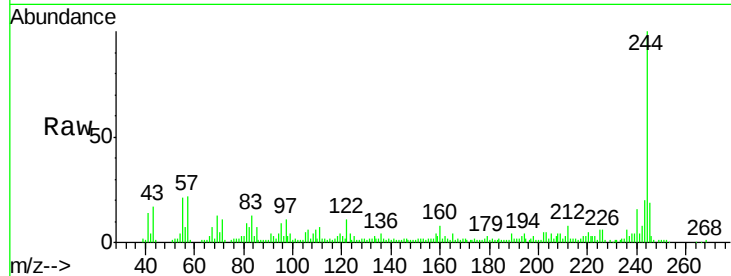
Tot Ion:244 Resp: 57529

Ion Ratio Lower Upper

244 100

212 8.0 5.8 8.8

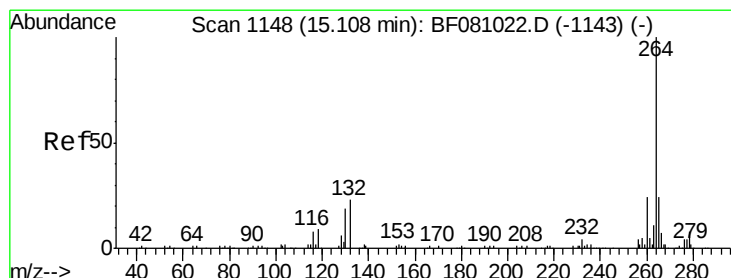
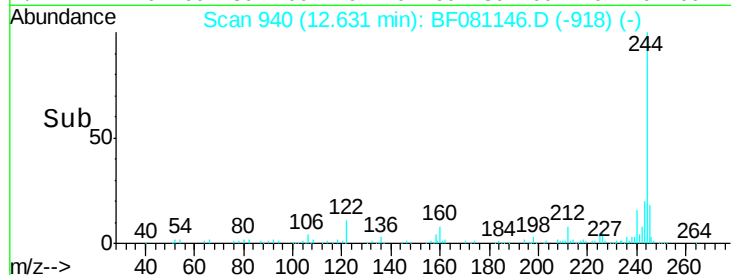
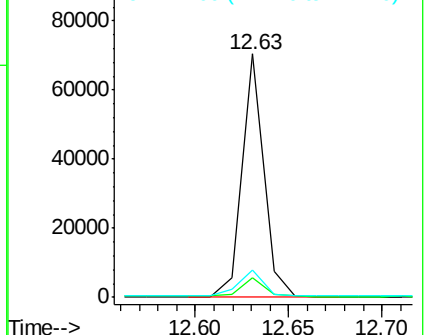
122 11.4 8.2 12.4



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.00 min Scan# 1147

Delta R.T. -0.05 min

Lab File: BF081146.D

Acq: 21 Aug 2015 15:34

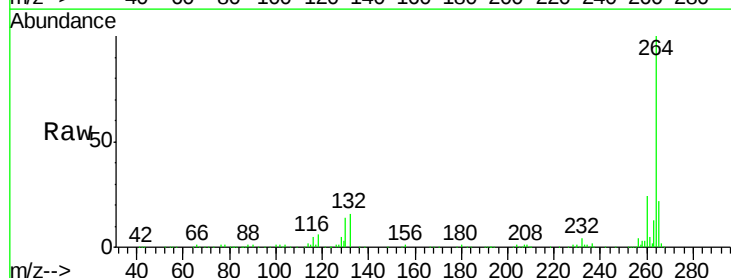
Tgt Ion:264 Resp: 240392

Ion Ratio Lower Upper

264 100

260 24.2 19.6 29.4

265 22.2 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

