

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071417\
 Data File : BF096808.D
 Acq On : 15 Jul 2017 8:45
 Operator : SJ/JU
 Sample : I4172-04DL2 50X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 17 00:50:29 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 13 14:49:34 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	78898	20.00	ng	0.00
21) Naphthalene-d8	7.91	136	315084	20.00	ng	-0.01
38) Acenaphthene-d10	9.66	164	114617	20.00	ng	-0.01
63) Phenanthrene-d10	11.13	188	165350	20.00	ng	-0.01
75) Chrysene-d12	13.76	240	162145	20.00	ng	-0.02
86) Perylene-d12	15.14	264	113971	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	10738	2.05	ng	0.00
7) Phenol-d6	6.27	99	13567	2.15	ng	-0.01
23) Nitrobenzene-d5	7.19	82	8420	1.66	ng	-0.02
41) 2,4,6-Tribromophenol	10.44	330	1778	1.82	ng	-0.02
44) 2-Fluorobiphenyl	8.98	172	15573	2.15	ng	-0.02
78) Terphenyl-d14	12.71	244	10099	1.08	ng	-0.02

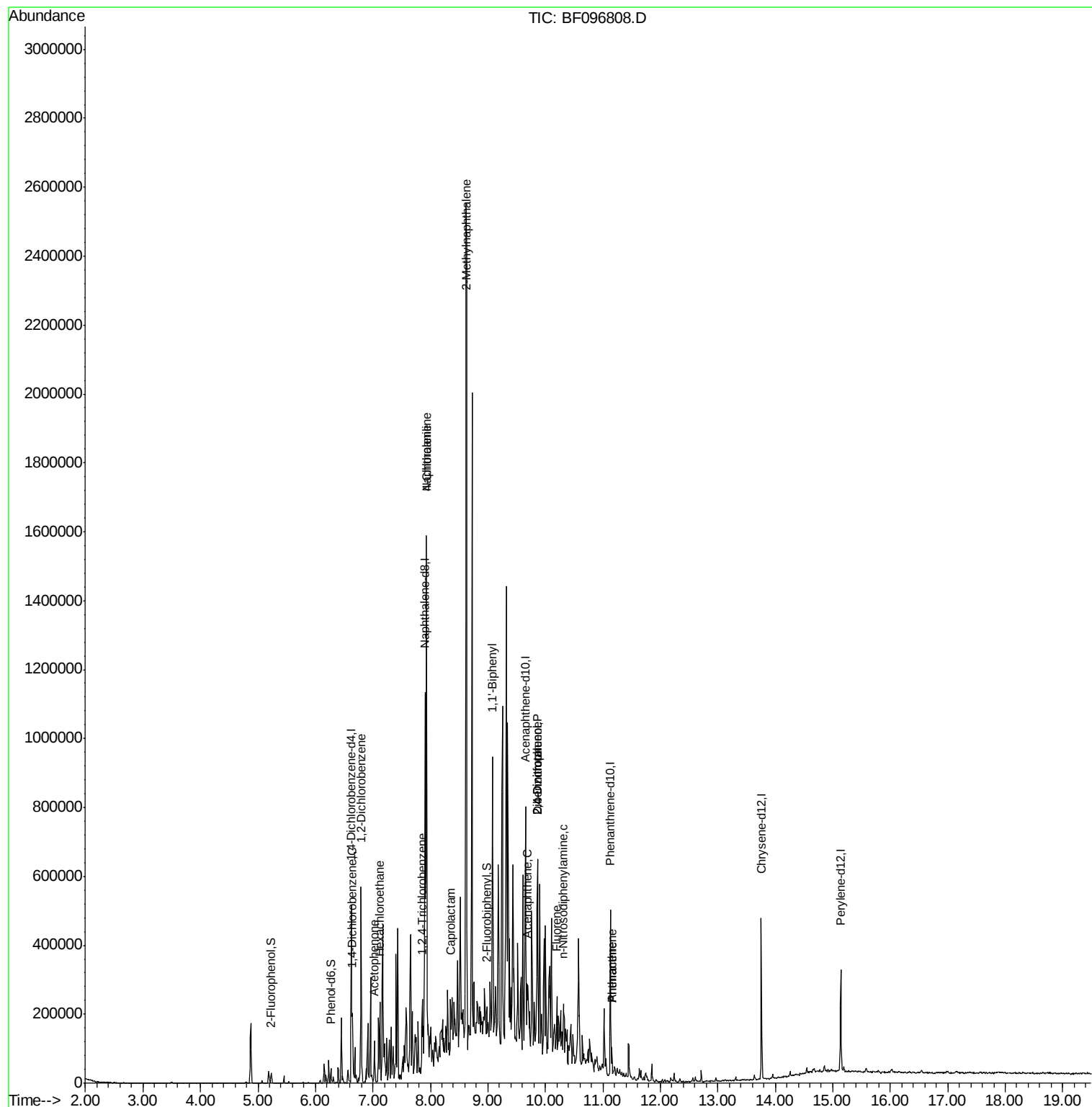
Target Compounds						Qvalue
13) 1,4-Dichlorobenzene	6.65	146	46185	7.58	ng	96
14) 1,2-Dichlorobenzene	6.80	146	129687	23.40	ng	95
18) Hexachloroethane	7.12	117	5313	2.46	ng	# 1
22) Acetophenone	7.03	105	32736	4.65	ng	# 51
30) 1,2,4-Trichlorobenzene	7.85	180	8293	2.00	ng	86
31) Naphthalene	7.93	128	636702	42.66	ng	99
33) 4-Chloroaniline	7.93	127	88366	14.94	ng	# 35
35) Caprolactam	8.35	113	2796	2.00	ng	# 1
37) 2-Methylnaphthalene	8.62	142	728073	76.51	ng	100
45) 1,1'-Biphenyl	9.08	154	74015	7.53	ng	97
51) Acenaphthene	9.69	154	21084	3.09	ng	94
53) 2,4-Dinitrophenol	9.87	184	237	6.98	ng	# 1
54) Dibenzofuran	9.86	168	19404	2.03	ng	# 38
56) 2,4-Dinitrotoluene	9.86	165	7137	2.97	ng	# 41
57) Fluorene	10.20	166	17880	2.53	ng	# 79
60) 4-Chlorophenyl-phenylether	10.06	204	157	Below Cal		# 1
65) n-Nitrosodiphenylamine	10.32	169	25400	4.30	ng	# 46
70) Phenanthrene	11.16	178	31146	3.46	ng	98
71) Anthracene	11.16	178	31146	3.43	ng	99

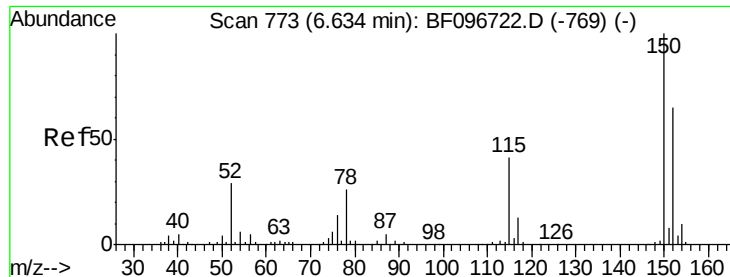
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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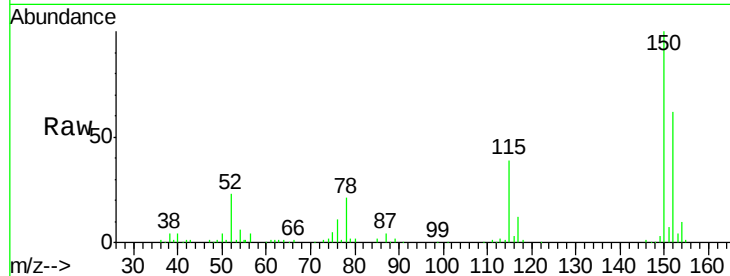


#1

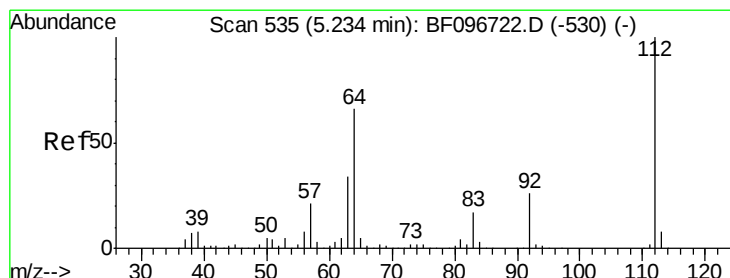
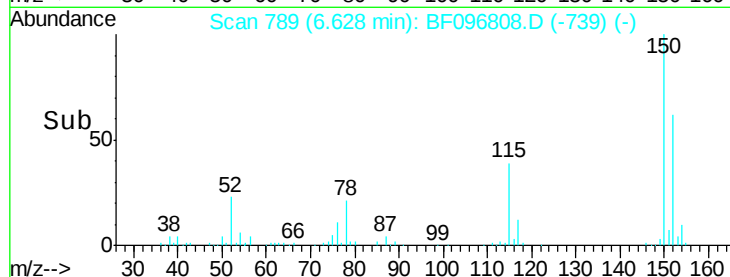
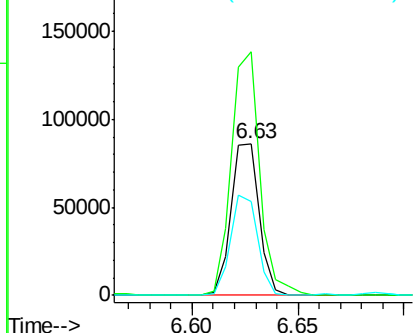
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.63 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 78898
Ion Ratio Lower Upper
152 100
150 160.3 126.2 189.2
115 61.9 52.2 78.2



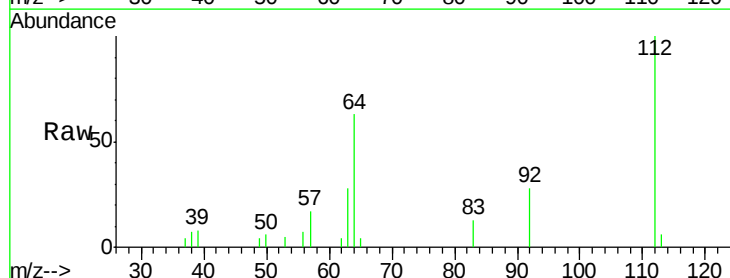
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



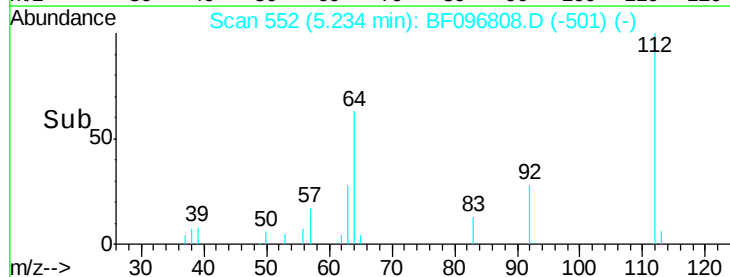
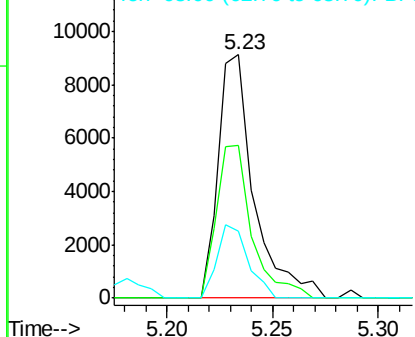
#5

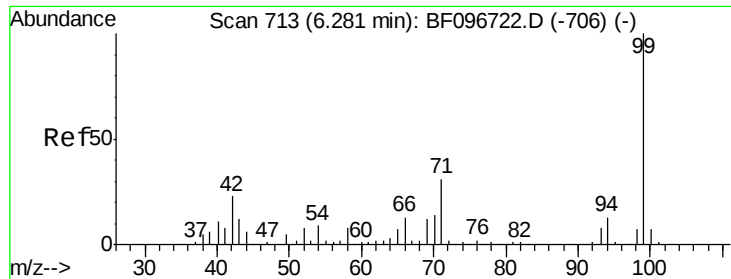
2-Fluorophenol
Concen: 2.05 ng
RT: 5.23 min Scan# 552
Delta R.T. 0.00 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:112 Resp: 10738
Ion Ratio Lower Upper
112 100
64 62.9 46.0 69.0
63 27.7 23.4 35.0



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: 2.15 ng

RT: 6.27 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF096808.D

Acq: 15 Jul 2017 8:45

Instrument :

BNA_F

ClientSampled :

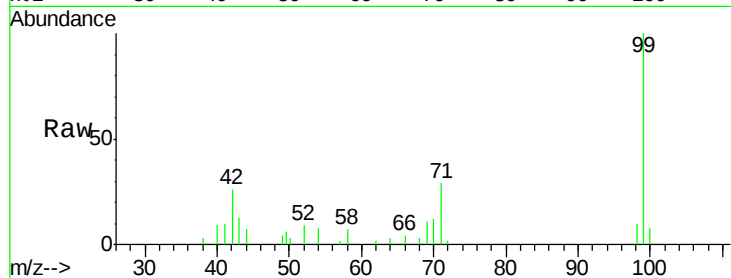
Tot Ion: 99 Resp: 13567

Ion Ratio Lower Upper

99 100

42 25.7 13.5 20.3#

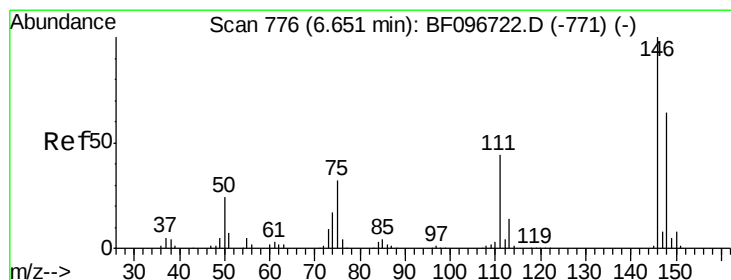
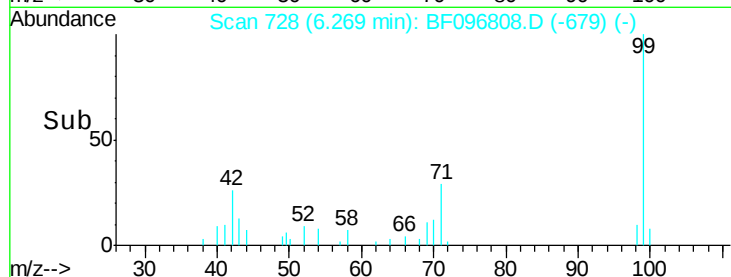
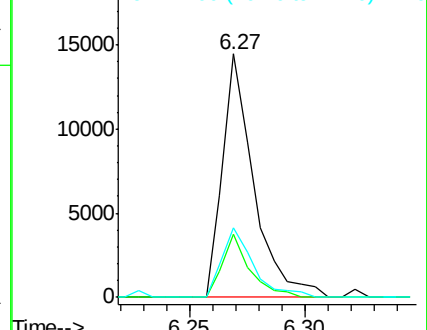
71 28.8 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#13

1,4-Dichlorobenzene

Concen: 7.58 ng

RT: 6.65 min Scan# 792

Delta R.T. -0.01 min

Lab File: BF096808.D

Acq: 15 Jul 2017 8:45

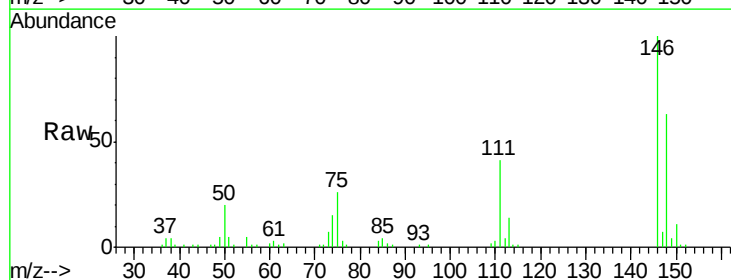
Tgt Ion: 146 Resp: 46185

Ion Ratio Lower Upper

146 100

148 62.5 52.2 78.2

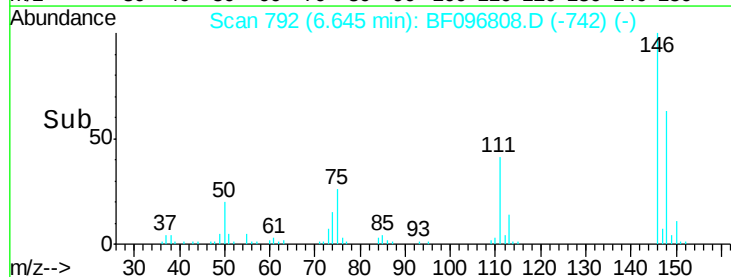
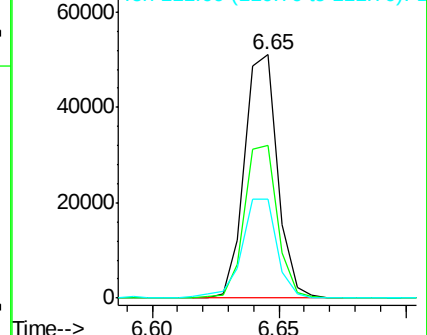
111 40.8 30.3 45.5

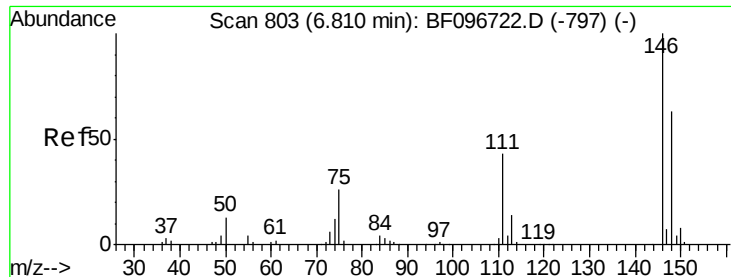


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E

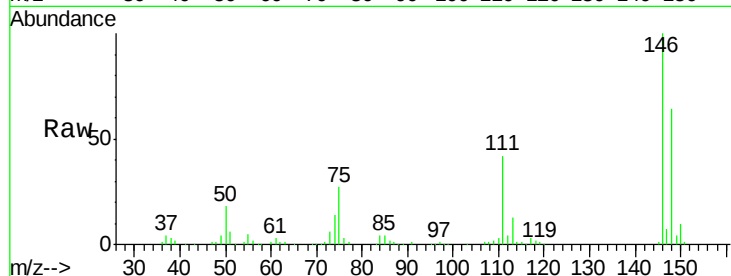




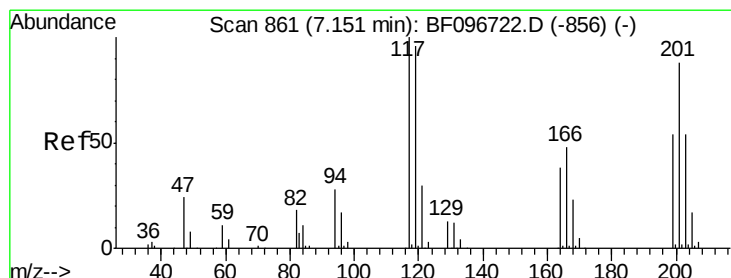
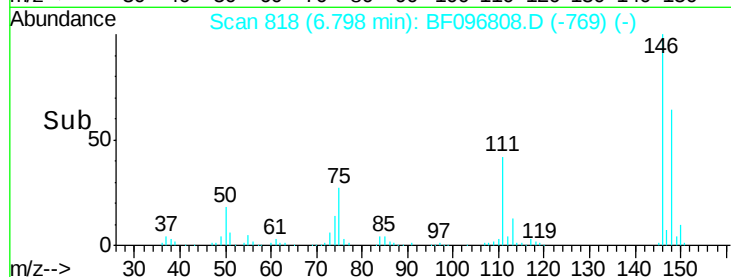
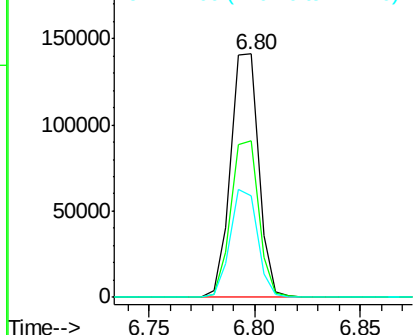
#14
 1,2-Dichlorobenzene
 Concen: 23.40 ng
 RT: 6.80 min Scan# 818
 Delta R.T. -0.01 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:146 Resp: 129687
 Ion Ratio Lower Upper
 146 100
 148 64.4 50.4 75.6
 111 41.9 38.2 57.4

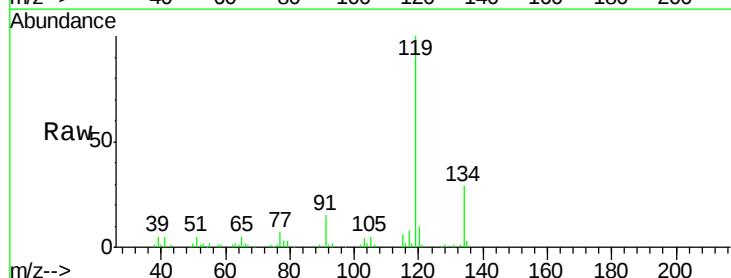


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E

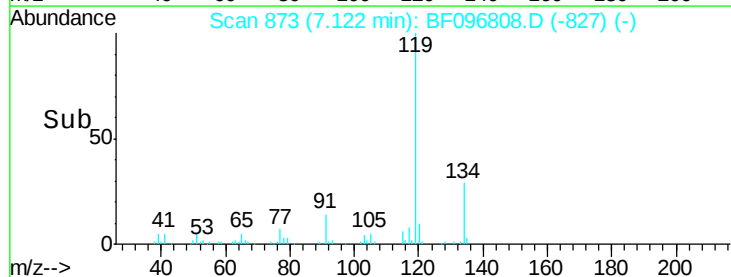
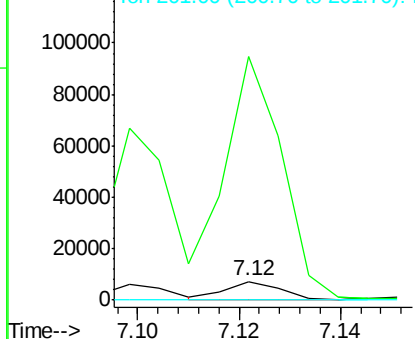


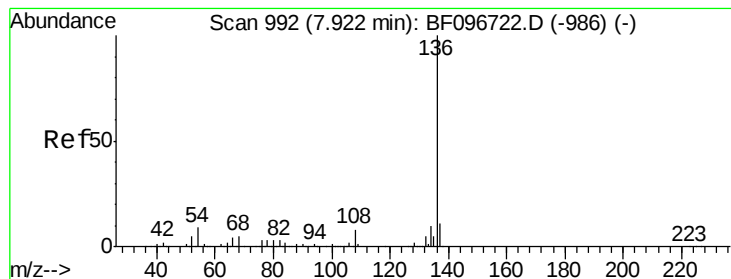
#18
 Hexachloroethane
 Concen: 2.46 ng
 RT: 7.12 min Scan# 873
 Delta R.T. -0.03 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Tgt Ion:117 Resp: 5313
 Ion Ratio Lower Upper
 117 100
 119 1307.3 77.4 116.0#
 201 0.0 94.6 141.8#



Abundance Ion 117.00 (116.70 to 117.70): E
 Ion 119.00 (118.70 to 119.70): E
 Ion 201.00 (200.70 to 201.70): E

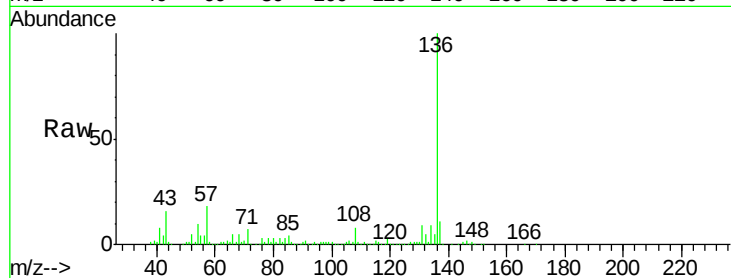




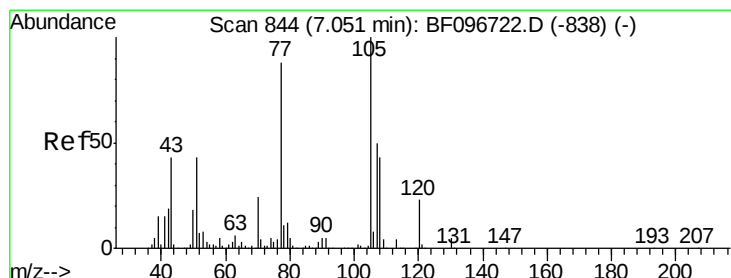
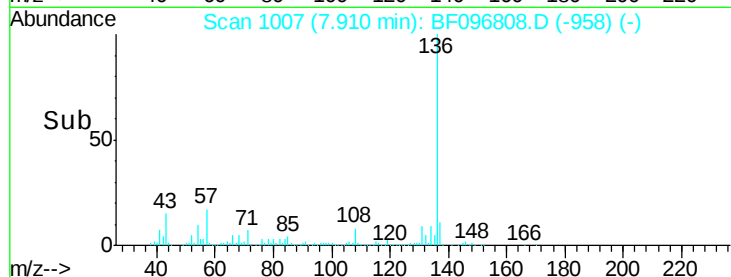
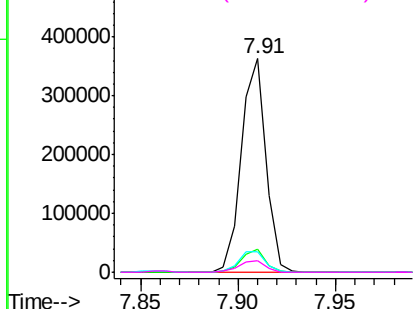
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.91 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Instrument :
BNA_F
ClientSampled :

Tot Ion:136	Resp:	315084
Ion Ratio	Lower	Upper
136	100	
137	10.9	8.5 12.7
54	9.9	4.9 7.3#
68	5.2	4.1 6.1

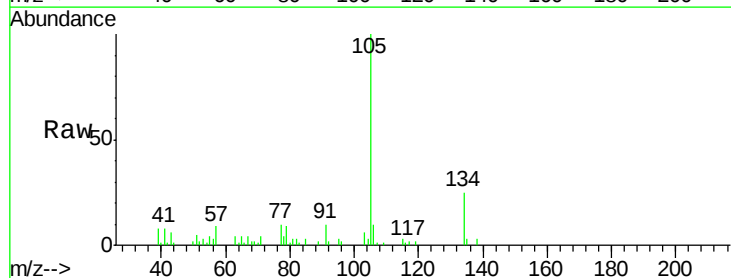


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

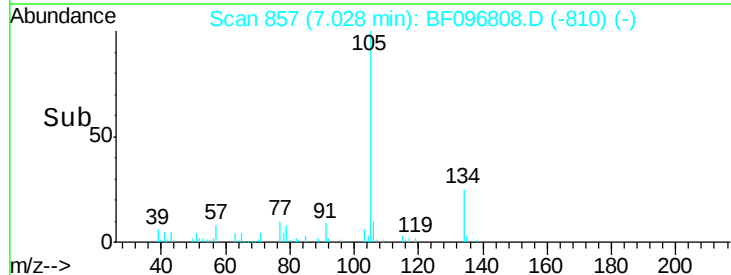
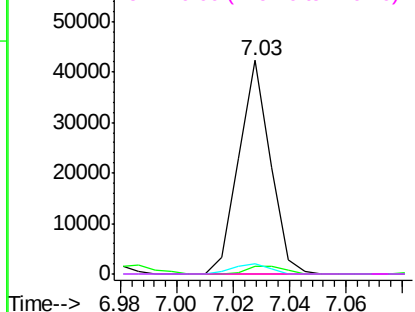


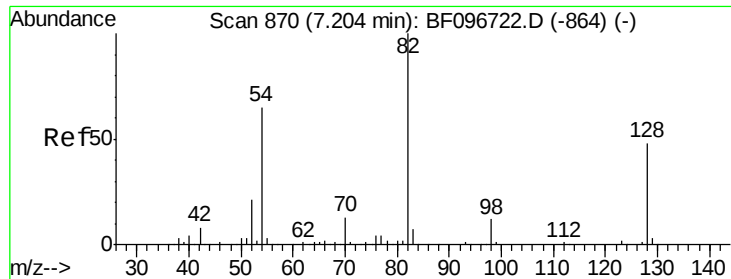
#22
Acetophenone
Concen: 4.65 ng
RT: 7.03 min Scan# 857
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:105	Resp:	32736
Ion Ratio	Lower	Upper
105	100	
71	3.7	2.8 4.2
51	4.7	30.7 46.1#
120	0.0	17.4 26.0#



Abundance Ion 105.00 (104.70 to 105.70): E
Ion 71.00 (70.70 to 71.70): BF0
Ion 51.00 (50.70 to 51.70): BF0
Ion 120.00 (119.70 to 120.70): E

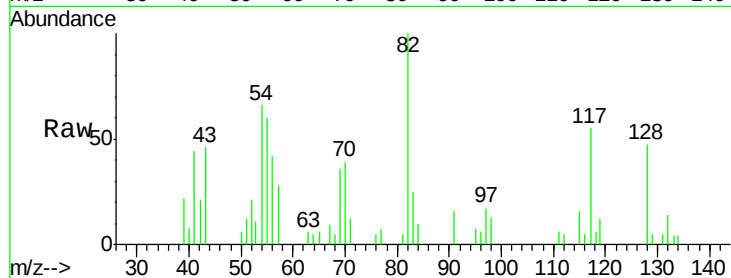




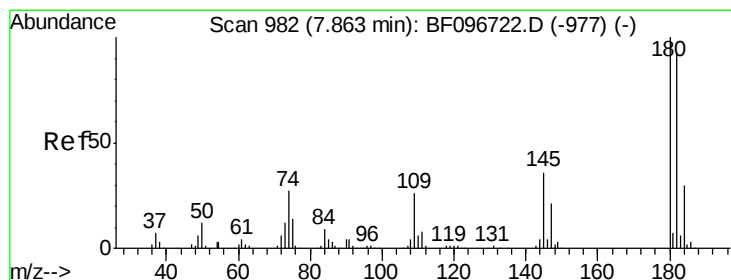
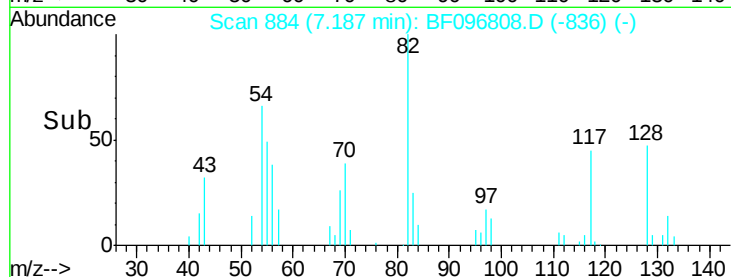
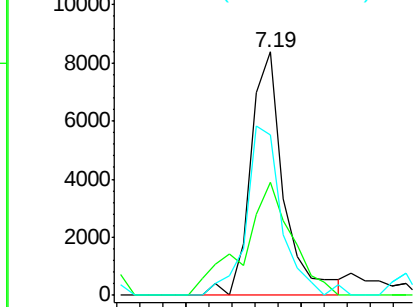
#23
 Nitrobenzene-d5
 Concen: 1.66 ng
 RT: 7.19 min Scan# 884
 Delta R.T. -0.02 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Instrument :
 BNA_F
 ClientSampleID :

Tot Ion: 82 Resp: 8420
 Ion Ratio Lower Upper
 82 100
 128 46.5 34.0 51.0
 54 66.0 42.2 63.2#

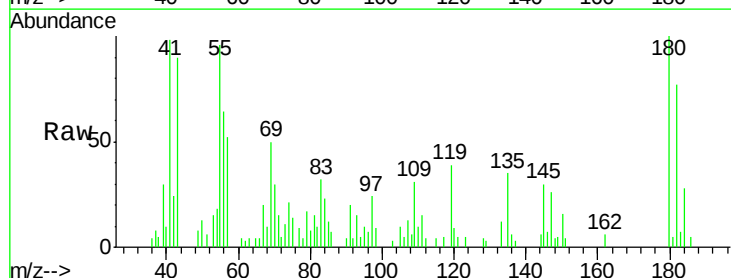


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

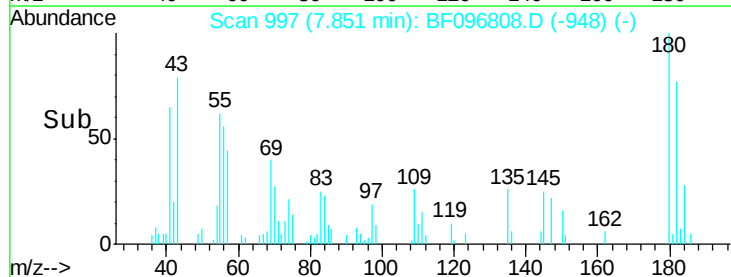
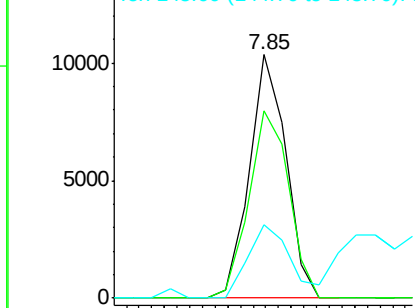


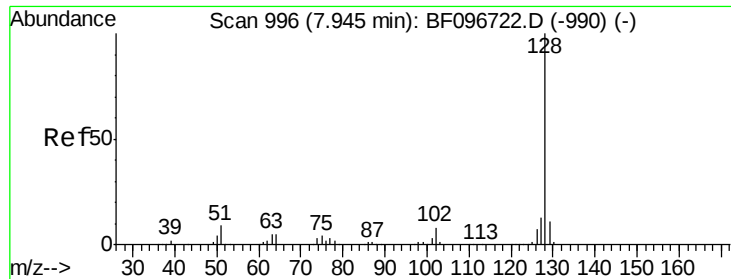
#30
 1,2,4-Trichlorobenzene
 Concen: 2.00 ng
 RT: 7.85 min Scan# 997
 Delta R.T. -0.01 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Tgt Ion:180 Resp: 8293
 Ion Ratio Lower Upper
 180 100
 182 77.2 75.8 113.6
 145 30.2 25.3 37.9



Abundance Ion 180.00 (179.70 to 180.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 145.00 (144.70 to 145.70): E

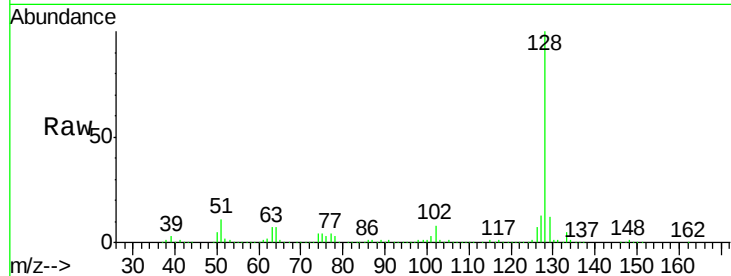




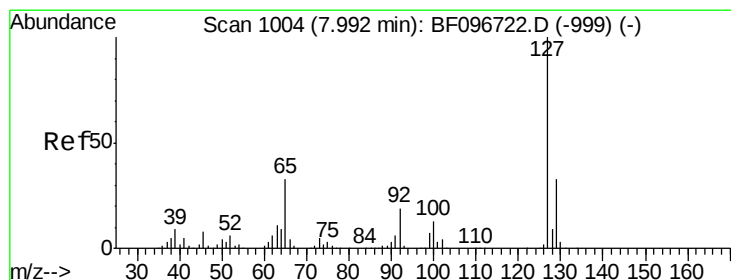
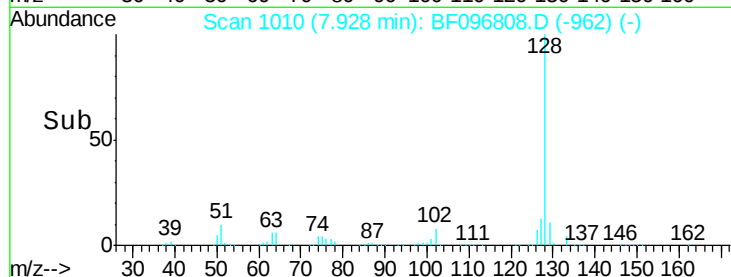
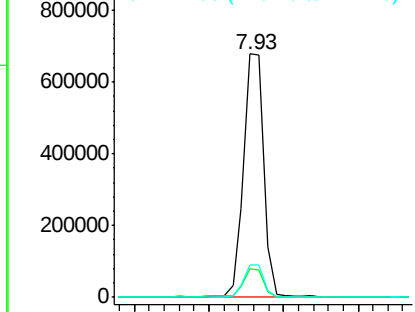
#31
Naphthalene
Concen: 42.66 ng
RT: 7.93 min Scan# 1010
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:128 Resp: 636702
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.6
127 13.1 10.8 16.2

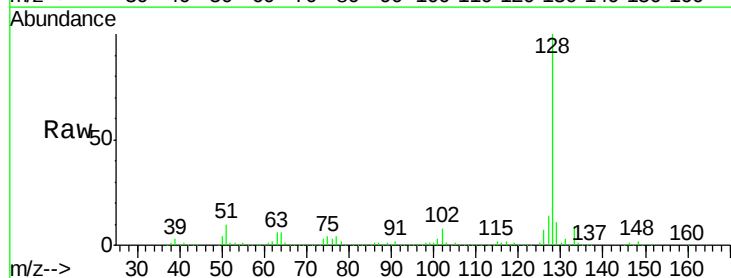


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

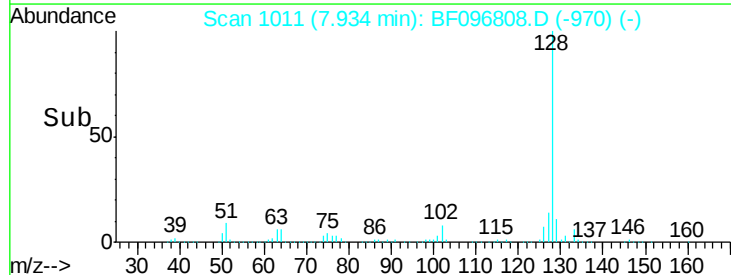
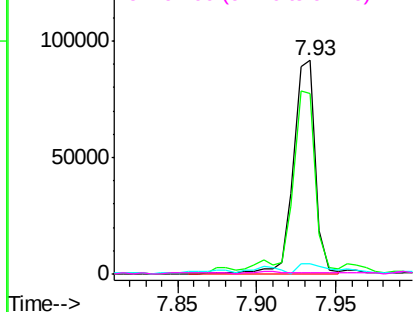


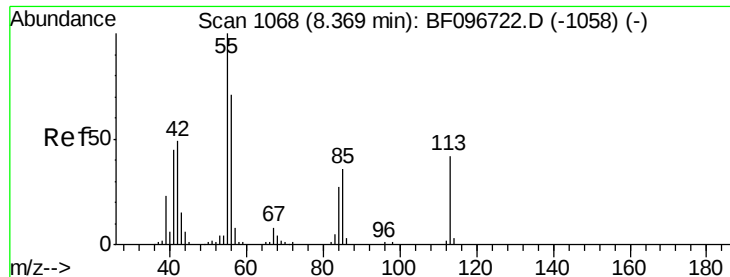
#33
4-Chloroaniline
Concen: 14.94 ng
RT: 7.93 min Scan# 1011
Delta R.T. -0.06 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:127 Resp: 88366
Ion Ratio Lower Upper
127 100
129 84.5 26.2 39.2#
65 4.7 27.8 41.8#
92 0.6 16.8 25.2#



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





#35

Caprolactam

Concen: 2.00 ng

RT: 8.35 min Scan# 1082

Delta R.T. -0.02 min

Lab File: BF096808.D

Acq: 15 Jul 2017 8:45

Instrument :

BNA_F

ClientSampled :

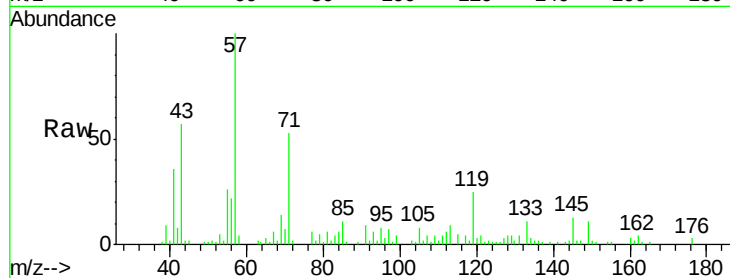
Tot Ion:113 Resp: 2796

Ion Ratio Lower Upper

113 100

55 303.7 150.2 190.2#

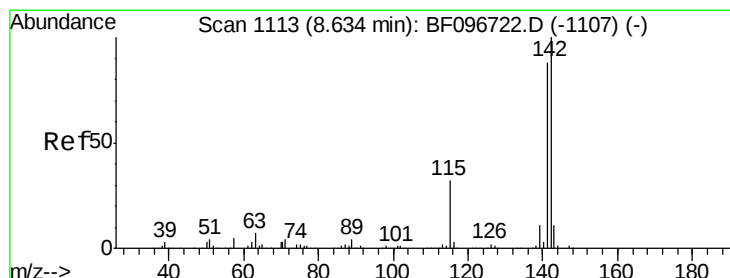
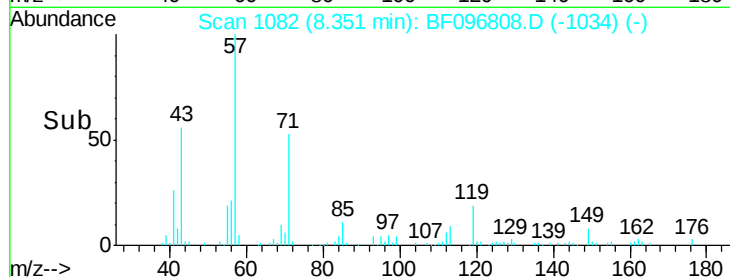
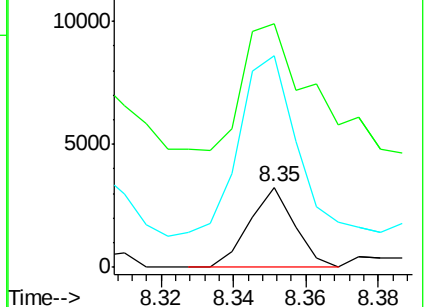
56 263.9 107.8 147.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#37

2-Methylnaphthalene

Concen: 76.51 ng

RT: 8.62 min Scan# 1128

Delta R.T. -0.01 min

Lab File: BF096808.D

Acq: 15 Jul 2017 8:45

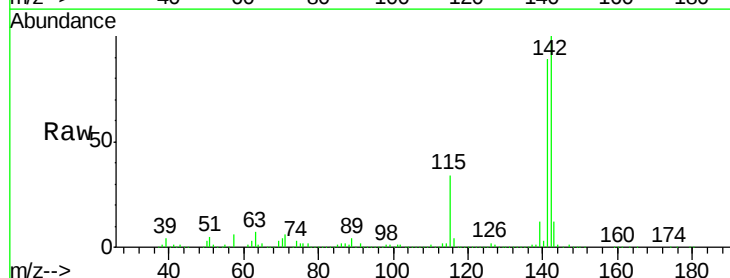
Tgt Ion:142 Resp: 728073

Ion Ratio Lower Upper

142 100

141 89.2 71.3 106.9

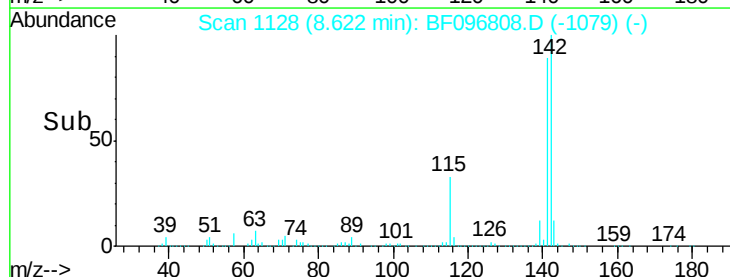
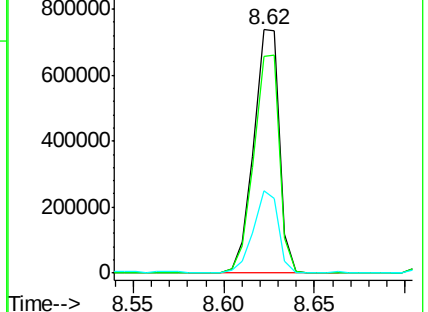
115 33.6 27.1 40.7

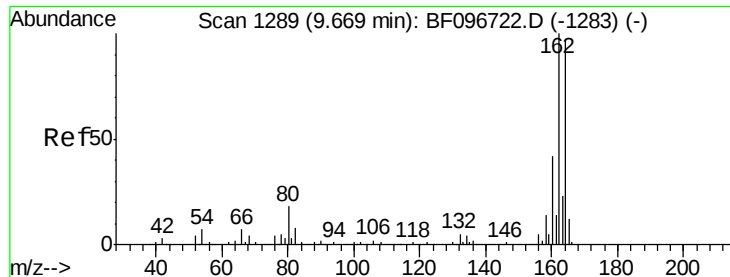


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

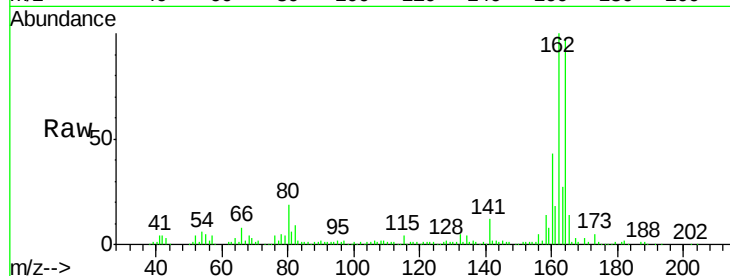




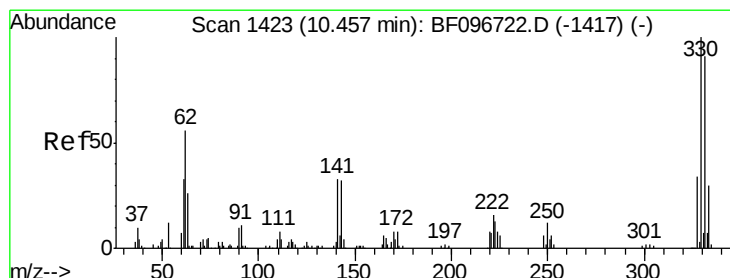
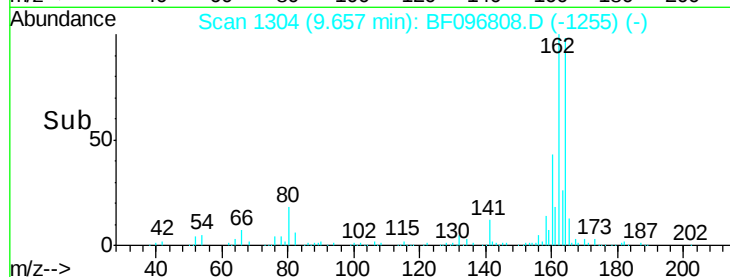
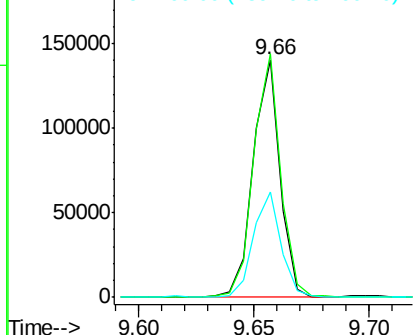
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.66 min Scan# 1304
 Delta R.T. -0.01 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.6	82.6	123.8
160	44.3	36.2	54.2

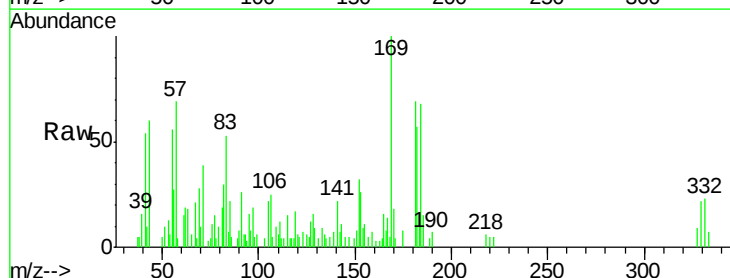


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

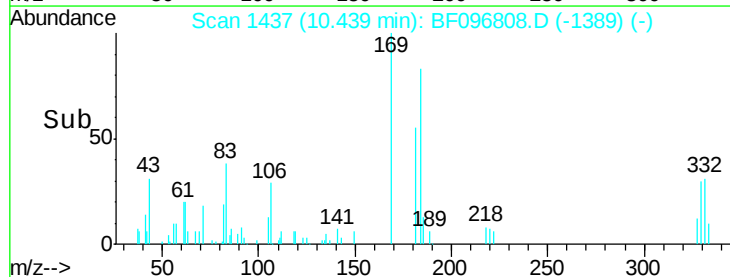
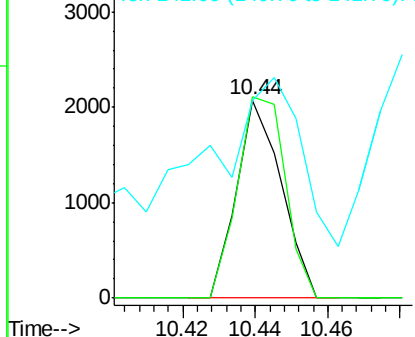


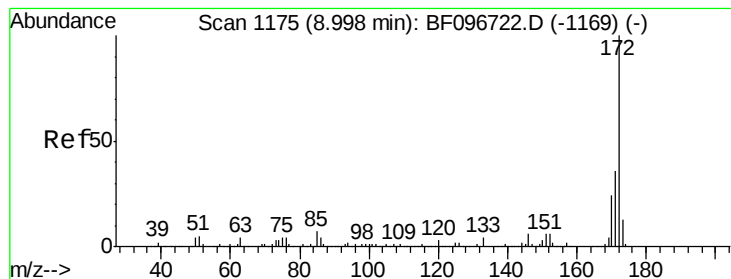
#41
 2,4,6-Tribromophenol
 Concen: 1.82 ng
 RT: 10.44 min Scan# 1437
 Delta R.T. -0.02 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Tgt Ion	Ratio	Lower	Upper
330	100		
332	109.3	76.6	115.0
141	198.8	31.4	47.2



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

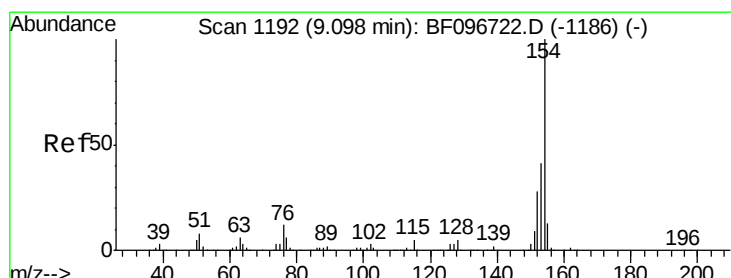
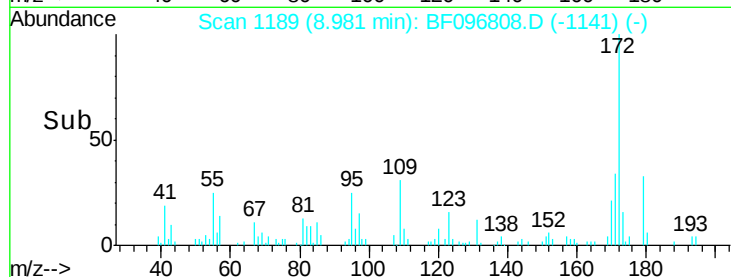
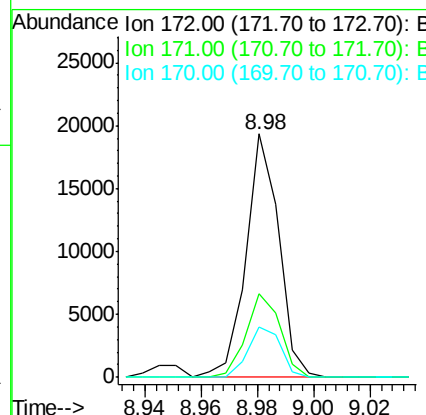
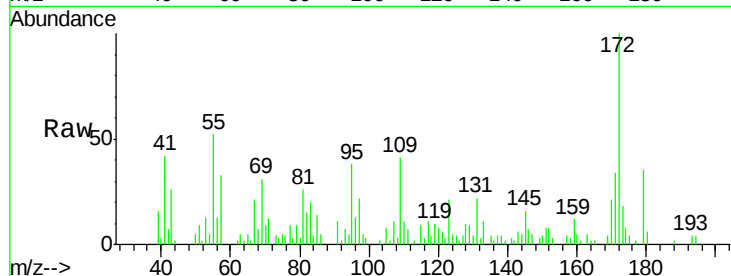




#44
 2-Fluorobiphenyl
 Concen: 2.15 ng
 RT: 8.98 min Scan# 1189
 Delta R.T. -0.02 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

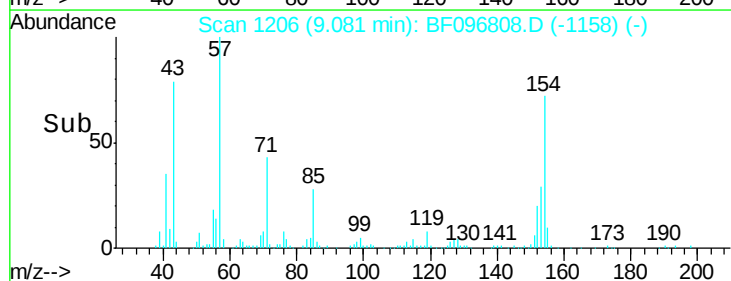
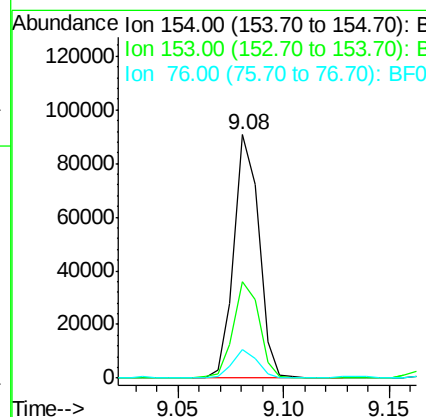
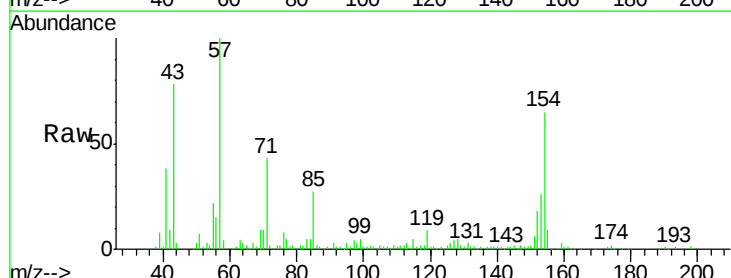
Instrument :
 BNA_F
 ClientSampled :

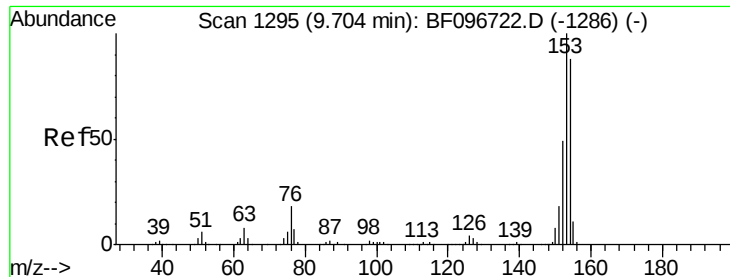
Tot Ion:172 Resp: 15573
 Ion Ratio Lower Upper
 172 100
 171 34.3 29.6 44.4
 170 20.7 19.8 29.8



#45
 1,1'-Biphenyl
 Concen: 7.53 ng
 RT: 9.08 min Scan# 1206
 Delta R.T. -0.02 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Tgt Ion:154 Resp: 74015
 Ion Ratio Lower Upper
 154 100
 153 39.7 21.2 61.2
 76 11.8 0.0 29.9





#51

Acenaphthene

Concen: 3.09 ng

RT: 9.69 min Scan# 1309

Delta R.T. -0.02 min

Lab File: BF096808.D

Acq: 15 Jul 2017 8:45

Instrument :

BNA_F

ClientSampleId :

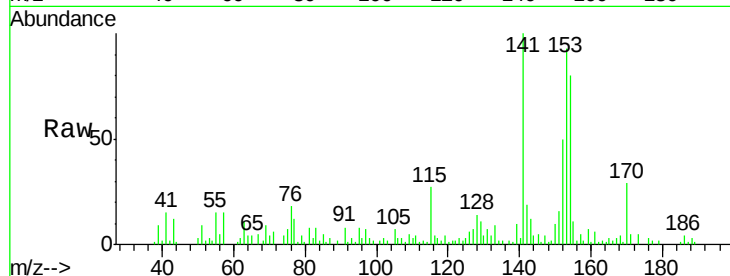
Tot Ion:154 Resp: 21084

Ion Ratio Lower Upper

154 100

153 116.5 90.5 135.7

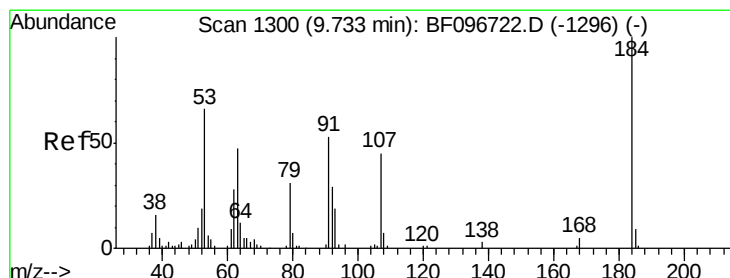
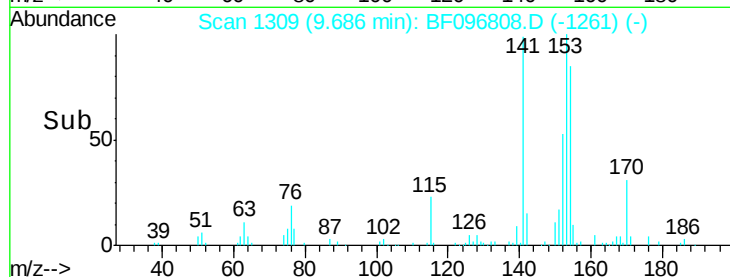
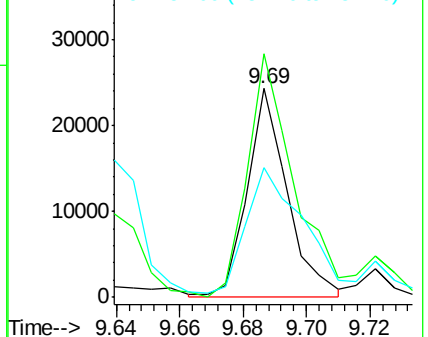
152 62.0 43.6 65.4



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: 6.98 ng

RT: 9.87 min Scan# 1340

Delta R.T. 0.14 min

Lab File: BF096808.D

Acq: 15 Jul 2017 8:45

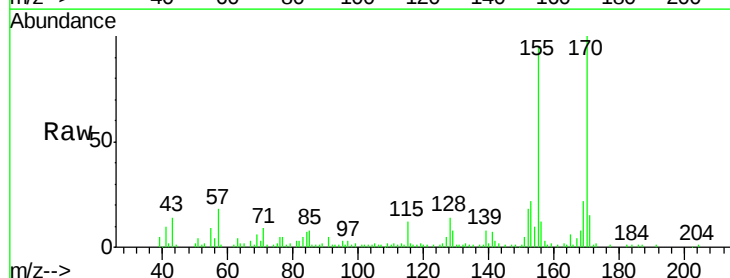
Tgt Ion:184 Resp: 237

Ion Ratio Lower Upper

184 100

63 706.9 62.7 94.1#

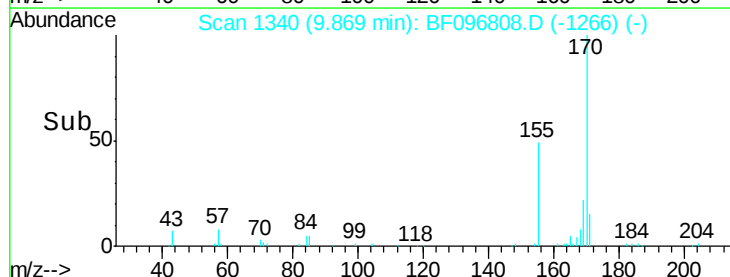
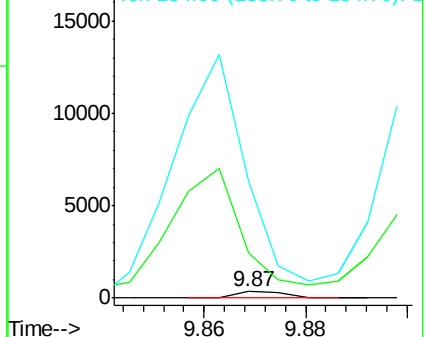
154 1813.7 81.1 121.7#

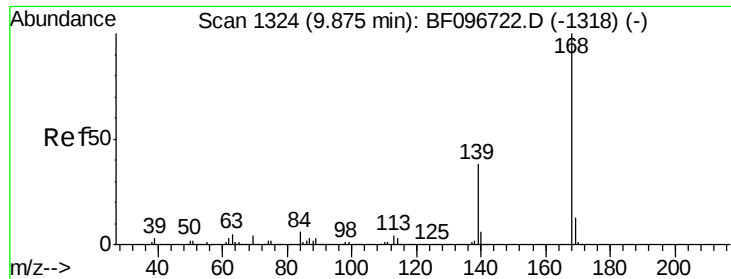


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E

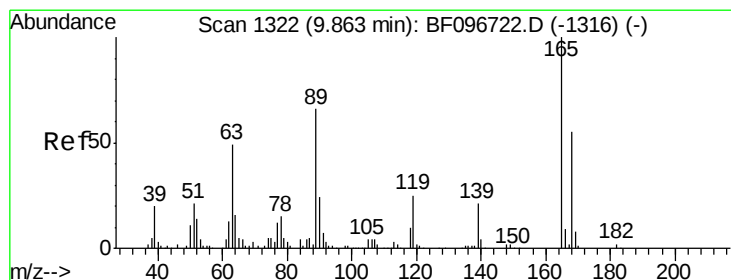
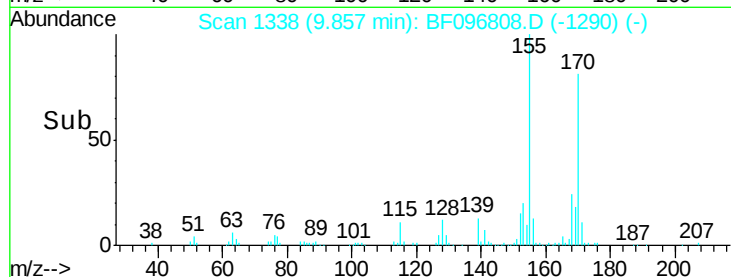
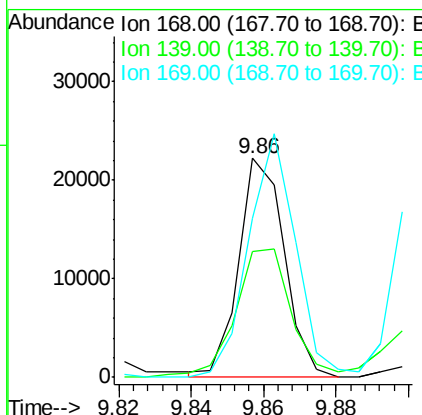
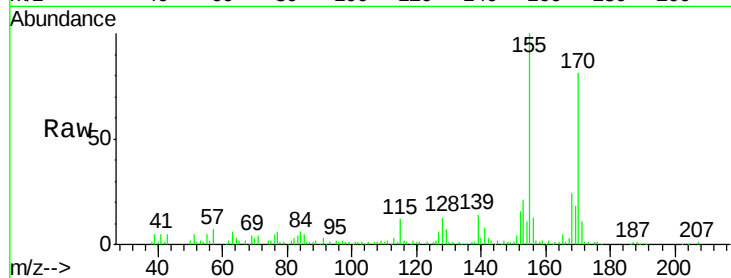




#54
Dibenzofuran
Concen: 2.03 ng
RT: 9.86 min Scan# 1338
Delta R.T. -0.02 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

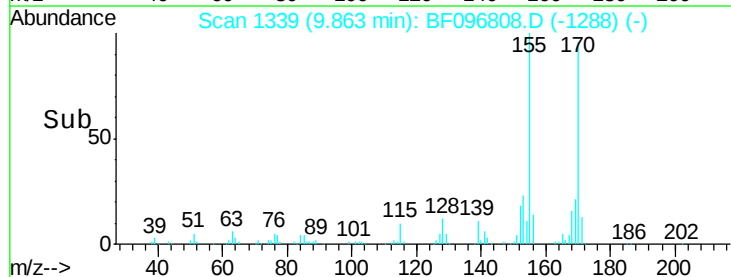
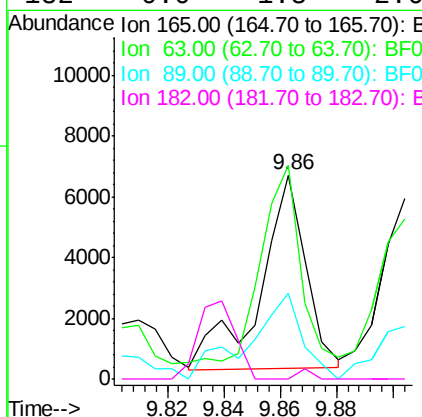
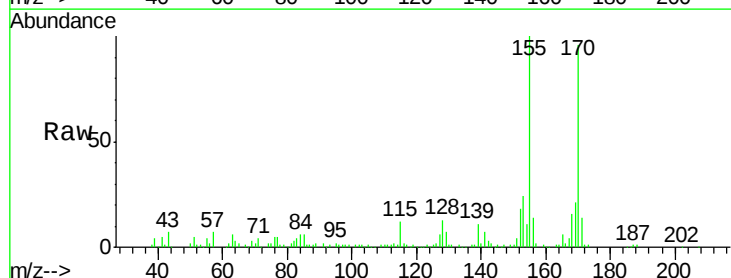
Instrument :
BNA_F
ClientSampleId :

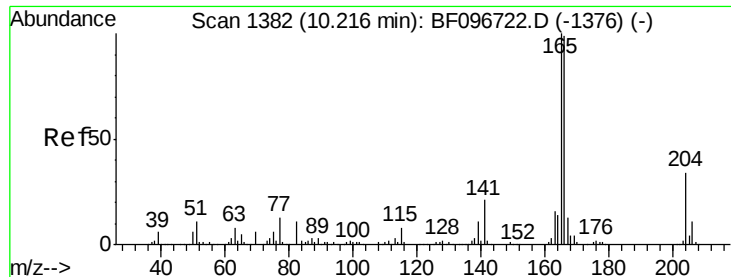
Tot Ion:168 Resp: 19404
Ion Ratio Lower Upper
168 100
139 57.3 30.6 45.8#
169 72.5 10.8 16.2#



#56
2,4-Dinitrotoluene
Concen: 2.97 ng
RT: 9.86 min Scan# 1339
Delta R.T. -0.00 min
Lab File: BF096808.D
Acq: 15 Jul 2017 8:45

Tgt Ion:165 Resp: 7137
Ion Ratio Lower Upper
165 100
63 104.8 25.4 38.0#
89 42.4 46.4 69.6#
182 0.0 1.8 2.6#

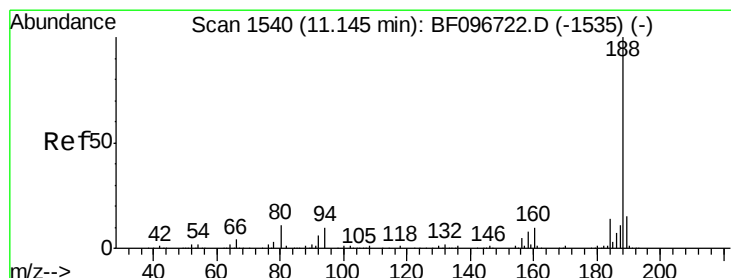
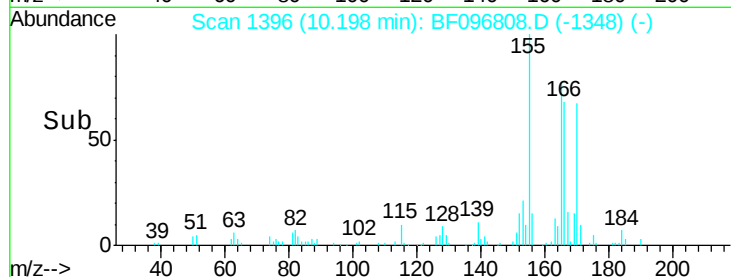
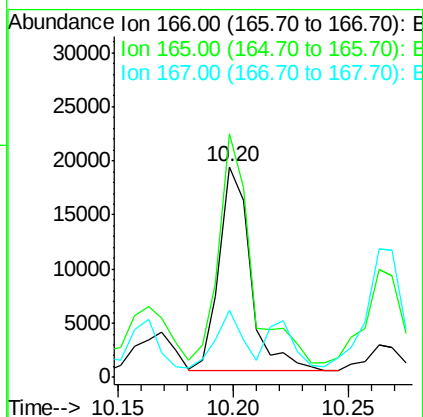
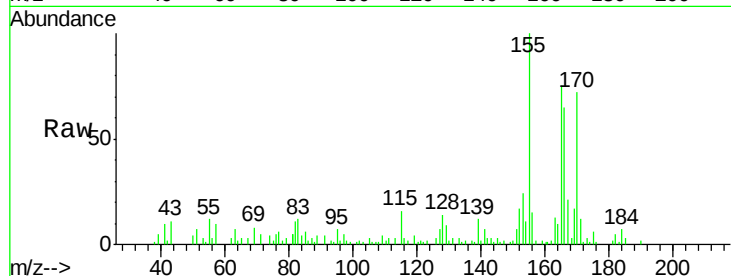




#57
Fluorene
 Concen: 2.53 ng
 RT: 10.20 min Scan# 1396
 Delta R.T. -0.02 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

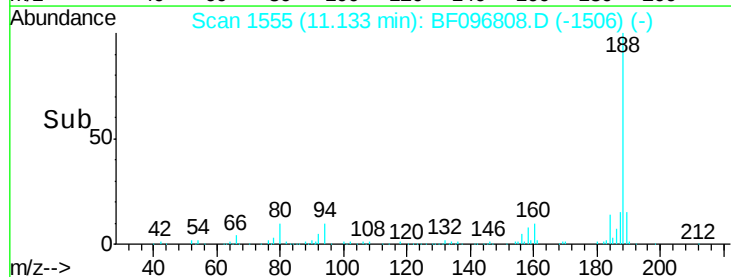
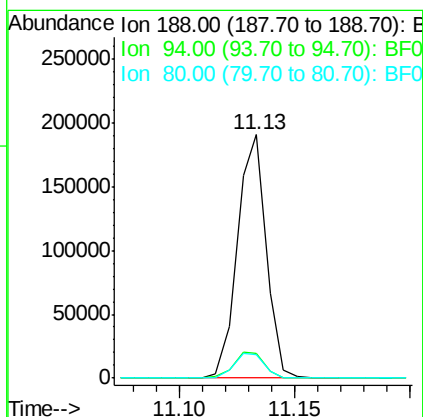
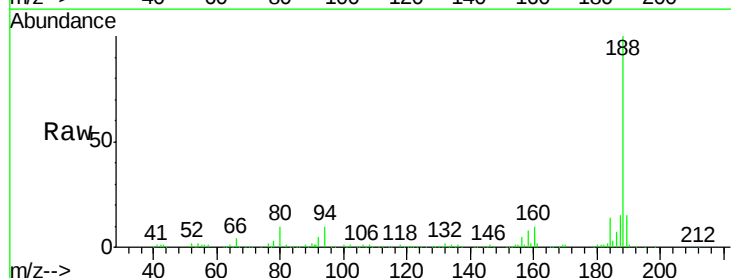
Instrument :
 BNA_F
 ClientSampled :

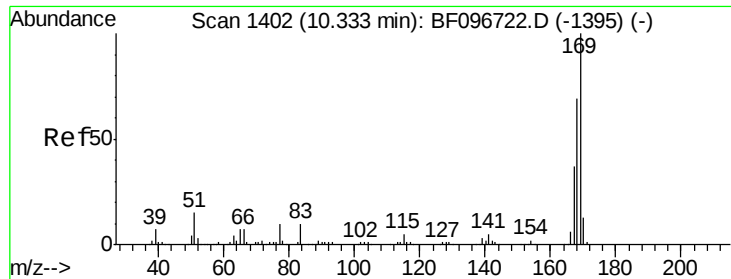
Tot Ion:166 Resp: 17880
 Ion Ratio Lower Upper
 166 100
 165 115.8 78.8 118.2
 167 32.0 10.6 16.0#



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.13 min Scan# 1555
 Delta R.T. -0.01 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Tgt Ion:188 Resp: 165350
 Ion Ratio Lower Upper
 188 100
 94 10.4 9.4 14.2
 80 9.7 10.2 15.2#





#65

n-Nitrosodiphenylamine

Concen: 4.30 ng

RT: 10.32 min Scan# 1416

Delta R.T. -0.02 min

Lab File: BF096808.D

Acq: 15 Jul 2017 8:45

Instrument :

BNA_F

ClientSampled :

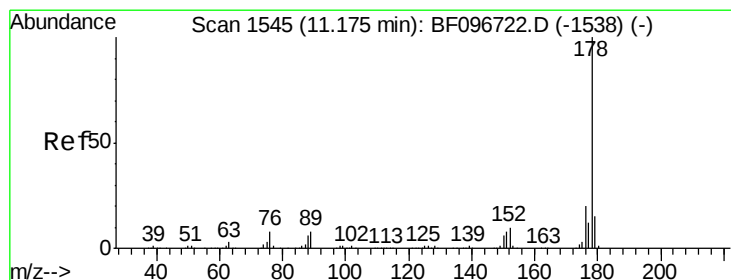
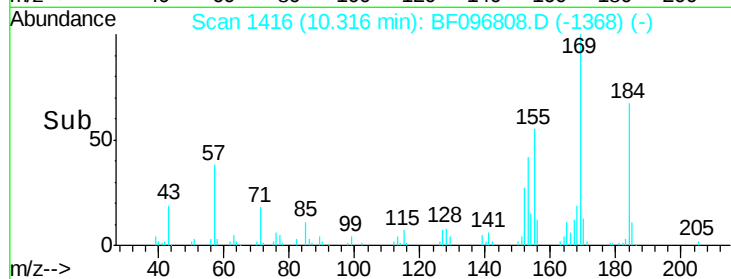
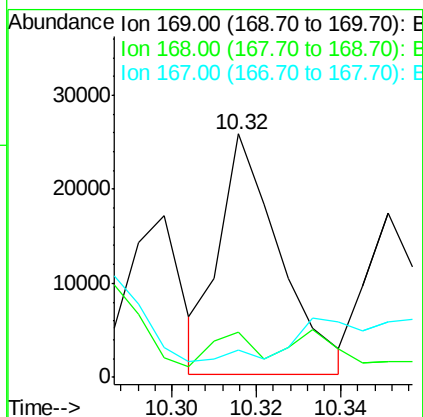
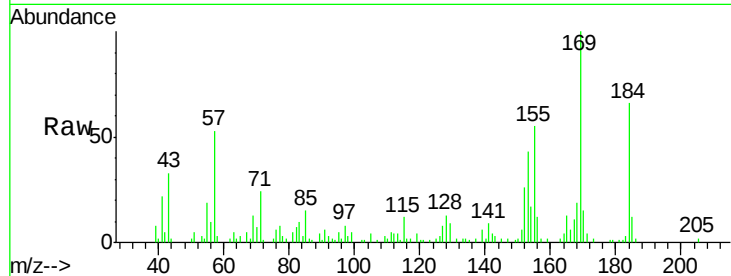
Tot Ion:169 Resp: 25400

Ion Ratio Lower Upper

169 100

168 18.6 53.2 79.8#

167 11.5 29.5 44.3#



#70

Phenanthrene

Concen: 3.46 ng

RT: 11.16 min Scan# 1559

Delta R.T. -0.02 min

Lab File: BF096808.D

Acq: 15 Jul 2017 8:45

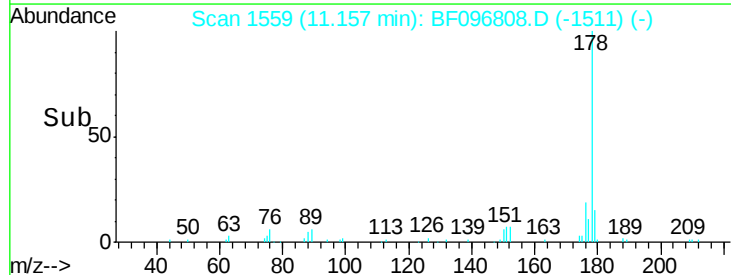
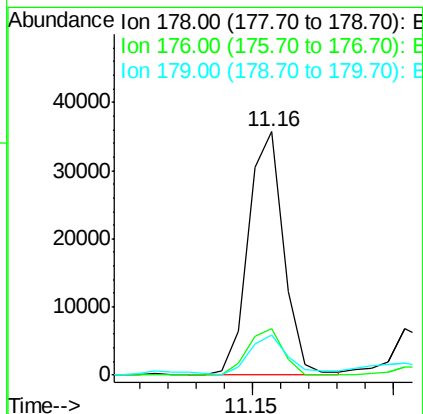
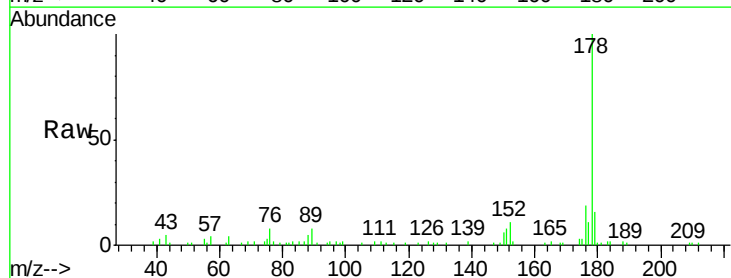
Tgt Ion:178 Resp: 31146

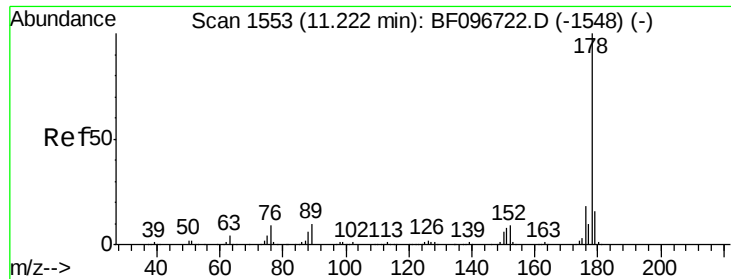
Ion Ratio Lower Upper

178 100

176 19.1 16.2 24.4

179 16.3 12.6 19.0

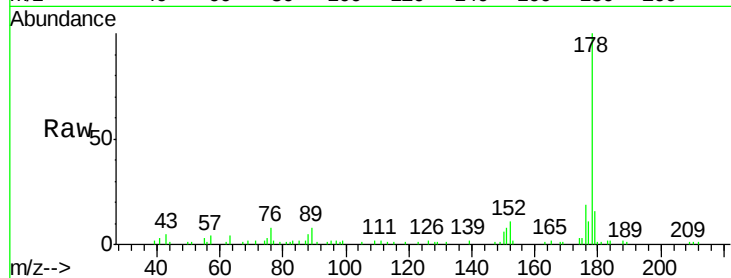




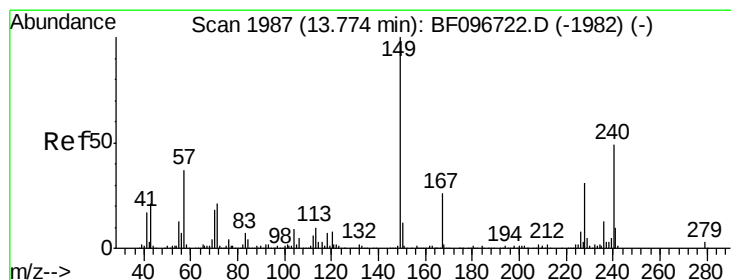
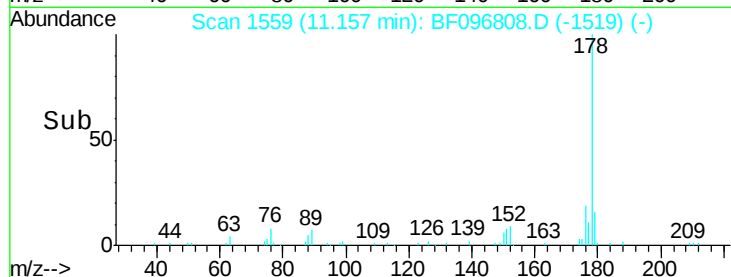
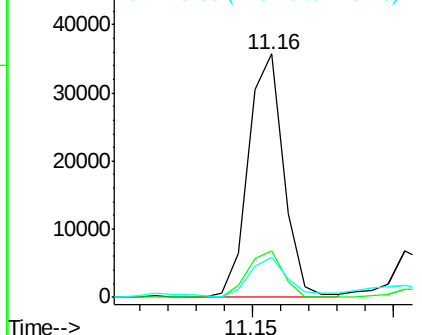
#71
 Anthracene
 Concen: 3.43 ng
 RT: 11.16 min Scan# 1559
 Delta R.T. -0.06 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 31146
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.8 23.8
 179 16.3 12.7 19.1

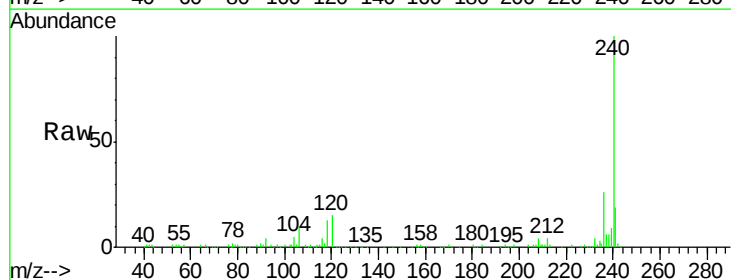


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

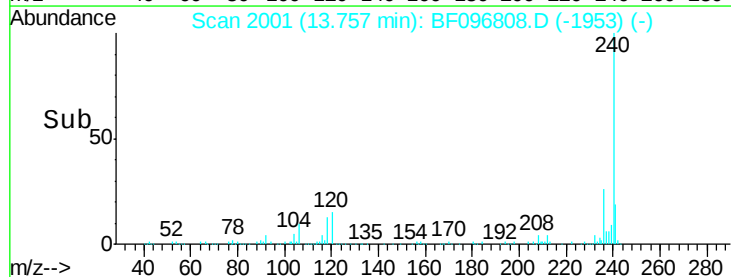
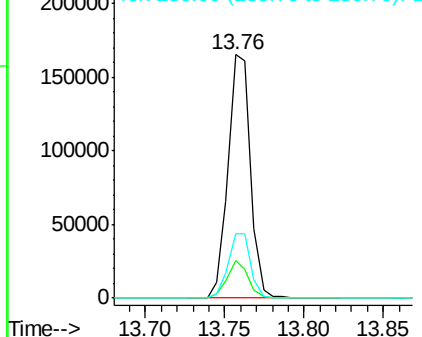


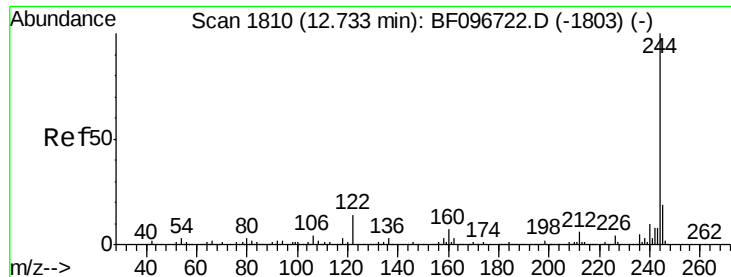
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.76 min Scan# 2001
 Delta R.T. -0.02 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Tgt Ion:240 Resp: 162145
 Ion Ratio Lower Upper
 240 100
 120 15.2 5.8 8.8#
 236 26.3 20.5 30.7



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

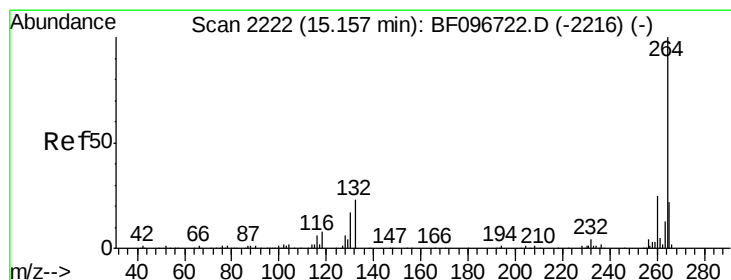
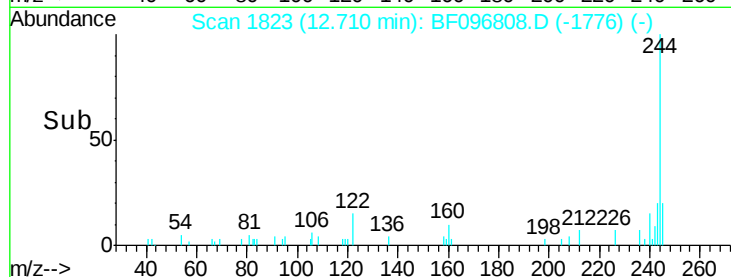
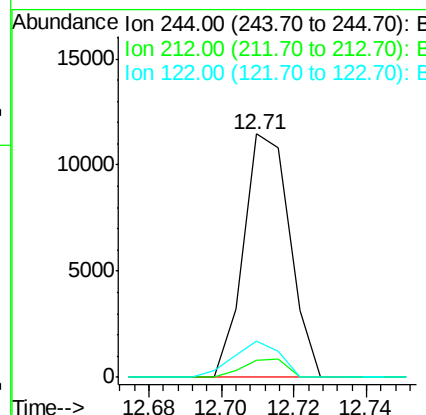
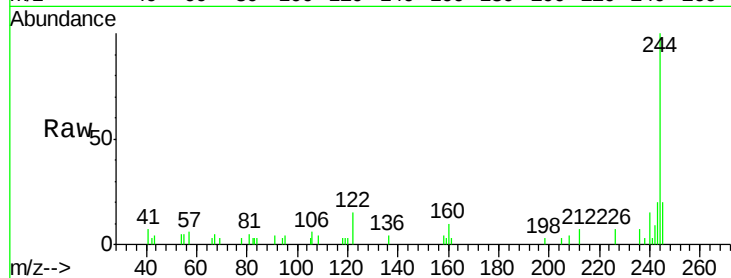




#78
 Terphenyl-d14
 Concen: 1.08 ng
 RT: 12.71 min Scan# 1823
 Delta R.T. -0.02 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:244 Resp: 10099
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.0 9.0
 122 14.7 10.3 15.5



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.14 min Scan# 2236
 Delta R.T. -0.02 min
 Lab File: BF096808.D
 Acq: 15 Jul 2017 8:45

Tgt Ion:264 Resp: 113971
 Ion Ratio Lower Upper
 264 100
 260 24.2 19.5 29.3
 265 22.4 17.2 25.8

