

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101432.D
 Acq On : 15 Dec 2017 9:18
 Operator : SJ/JU
 Sample : I6835-01DL 500X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 15 10:17:26 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 15:42:32 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	171077	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	664665	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	289441	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	493720	20.00	ng	0.00
75) Chrysene-d12	13.99	240	328532	20.00	ng	-0.01
86) Perylene-d12	15.46	264	334140	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	0.00	99	0	0.00	ng	
23) Nitrobenzene-d5	0.00	82	0	0.00	ng	
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.18	172	304	0.02	ng	0.00
78) Terphenyl-d14	12.93	244	678	0.05	ng	0.00

Target Compounds

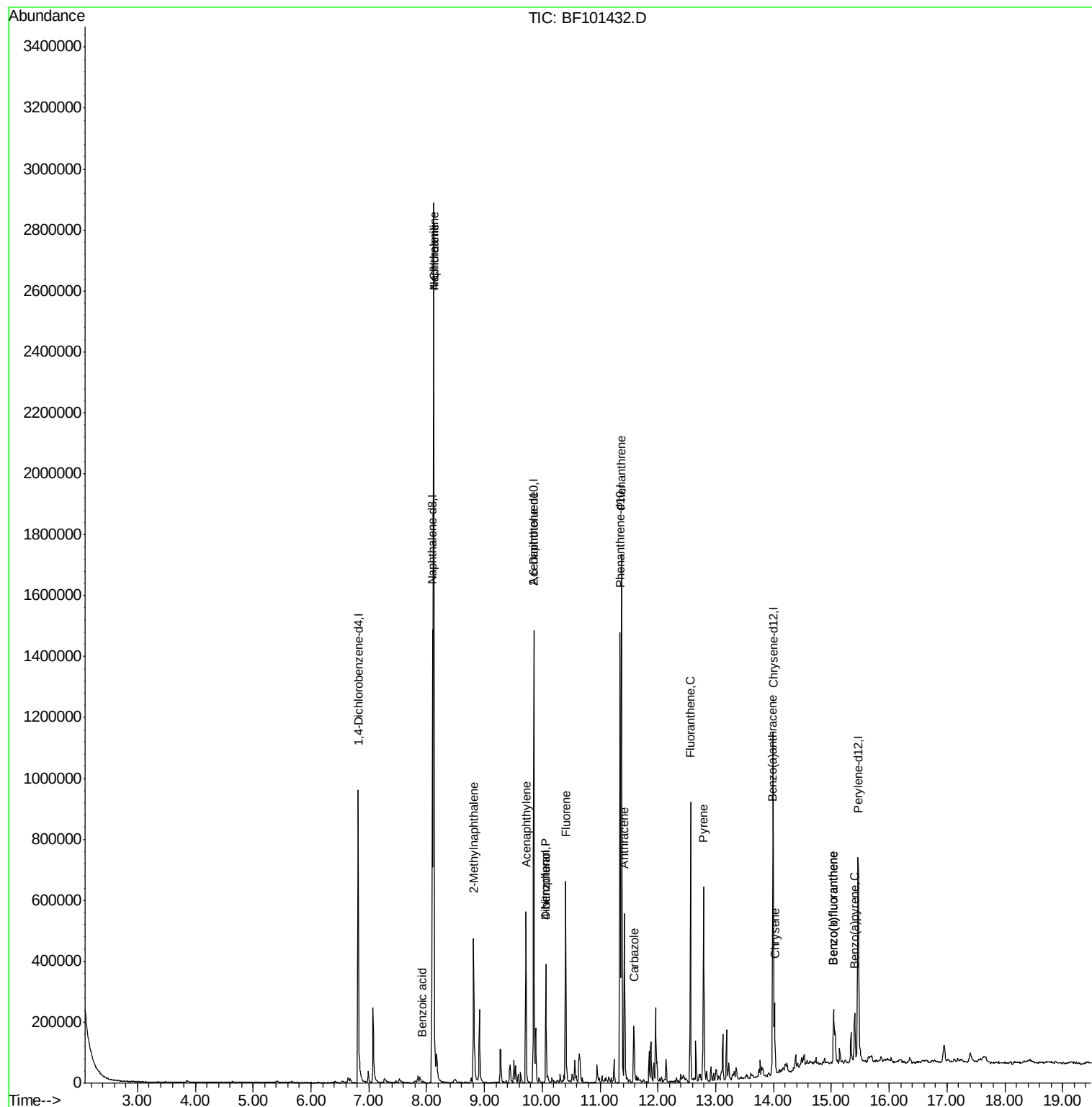
						Qvalue
31) Naphthalene	8.12	128	1388284	41.489	ng	100
32) Benzoic acid	7.93	122	3482	8.408	ng	# 1
33) 4-Chloroaniline	8.12	127	185139	12.730	ng	# 35
37) 2-Methylnaphthalene	8.82	142	182388	8.366	ng	99
48) Acenaphthylene	9.72	152	237021	7.640	ng	99
50) 2,6-Dinitrotoluene	9.85	165	39316	8.309	ng	# 26
54) Dibenzofuran	10.06	168	171409	7.237	ng	98
55) 4-Nitrophenol	10.06	139	62465	24.283	ng	# 10
57) Fluorene	10.40	166	204339	10.198	ng	99
70) Phenanthrene	11.37	178	623996	22.727	ng	99
71) Anthracene	11.42	178	230584	8.222	ng	99
72) Carbazole	11.59	167	78044	2.972	ng	99
74) Fluoranthene	12.56	202	364618	12.652	ng	98
77) Pyrene	12.79	202	262099	10.630	ng	97
80) Benzo(a)anthracene	13.98	228	113594	5.236	ng	97
82) Chrysene	14.02	228	91919	4.488	ng	98
87) Benzo(b)fluoranthene	15.04	252	133026	6.532	ng	99
88) Benzo(k)fluoranthene	15.04	252	133026	6.718	ng	98
89) Benzo(a)pyrene	15.40	252	77390	4.122	ng	97

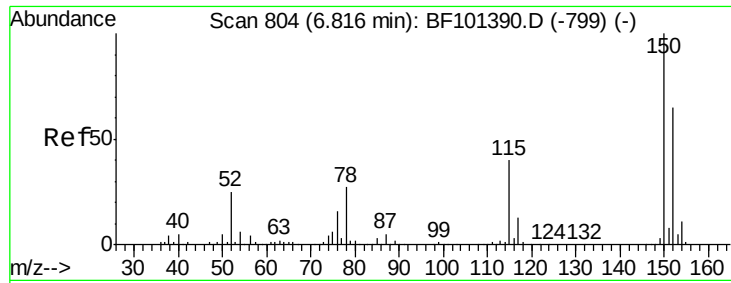
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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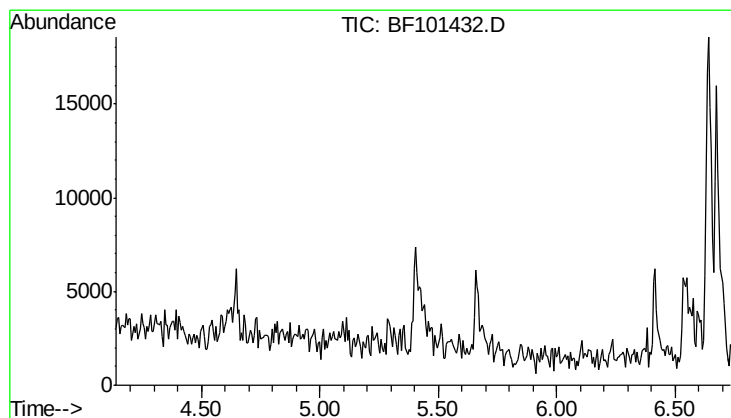
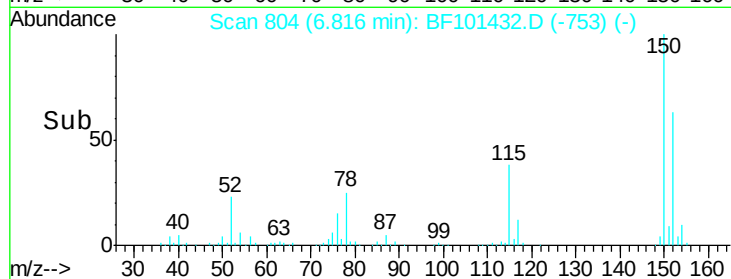
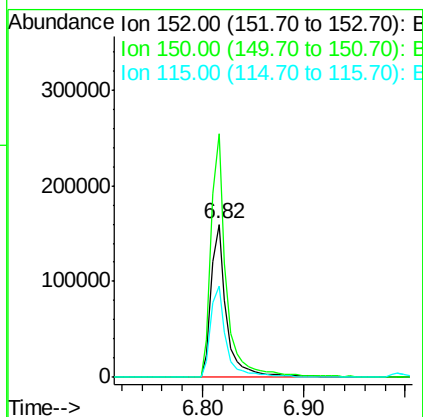
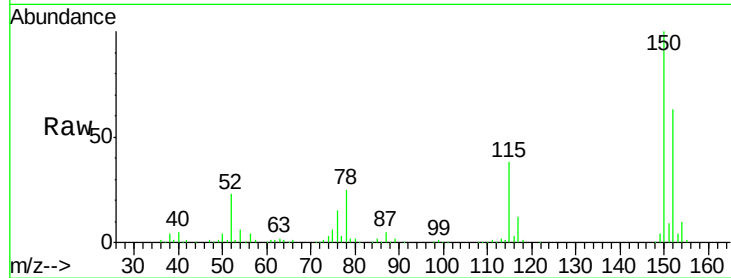


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF101432.D
Acq: 15 Dec 2017 9:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.1	124.6	186.8
115	59.9	50.1	75.1

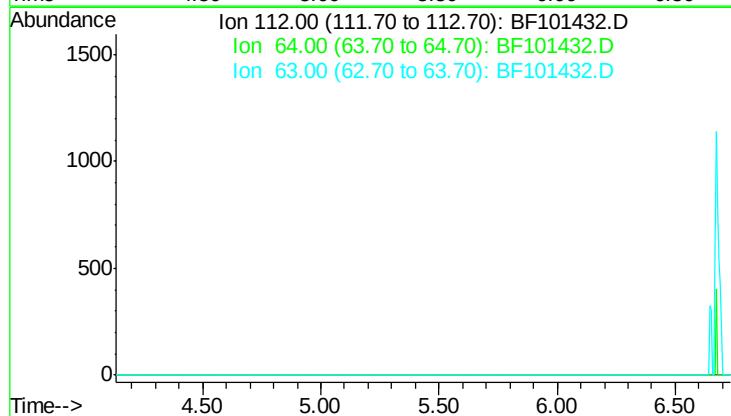


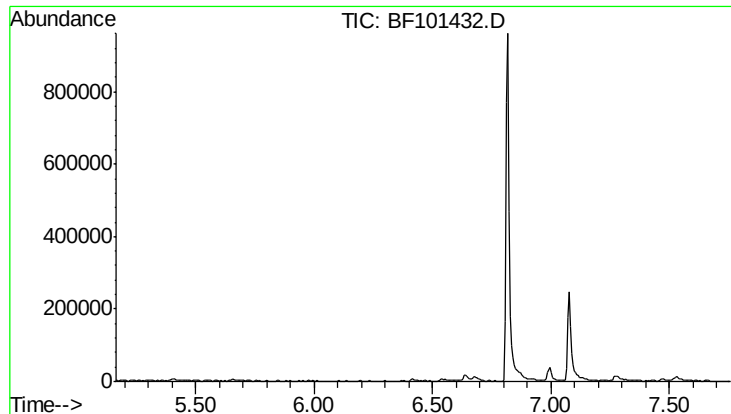
#5

2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.43 min

Lab File: BF101432.D
Acq: 15 Dec 2017 9:18

Tgt Ion	Sig	Exp Ratio
112	100	
64	59.9	
63	29.6	





#7

Phenol-d6

Concen: 0.000 ng

Expected RT: 6.46 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

Instrument :

BNA_F

ClientSampleId :

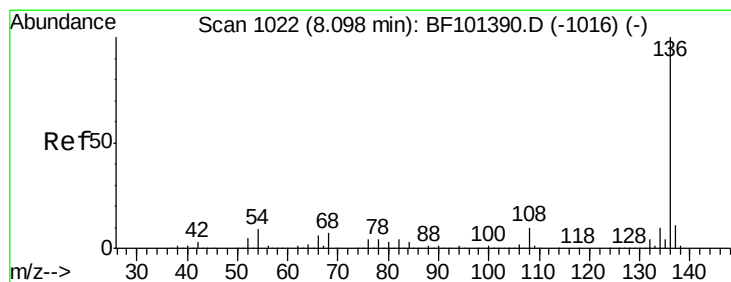
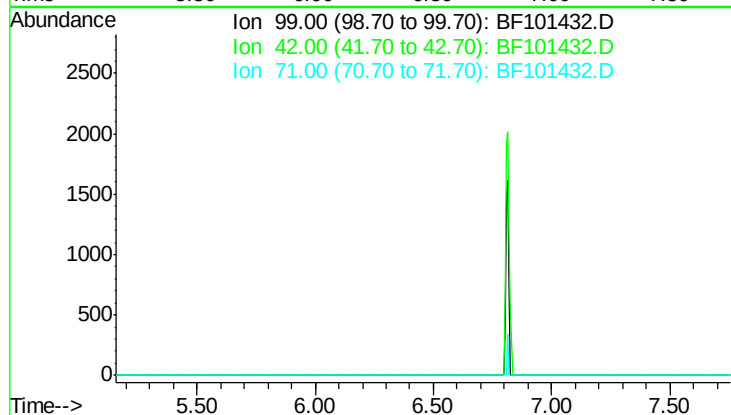
Tot Ion: 99

Sig Exp Ratio

99 100

42 18.1

71 31.7



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.00 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

Tgt Ion:136 Resp: 664665

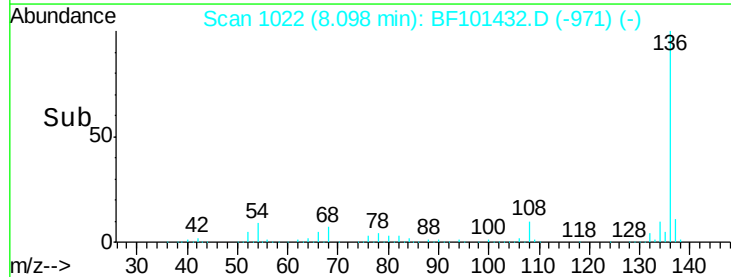
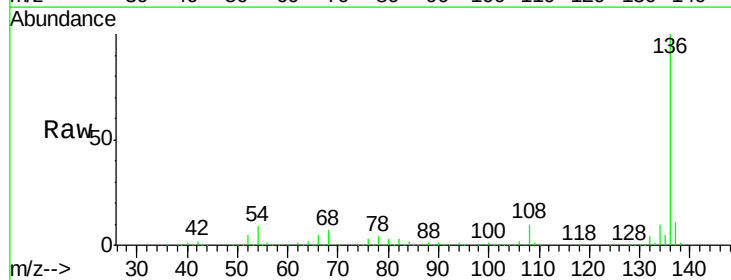
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 8.8 6.6 9.8

68 6.8 5.0 7.4

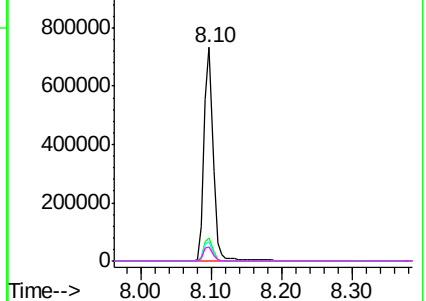


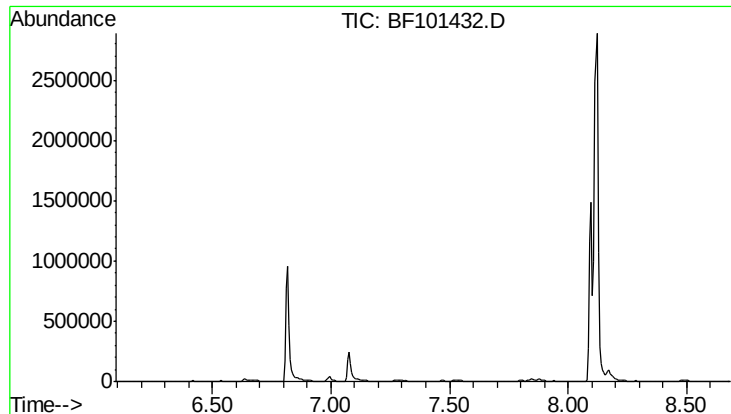
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

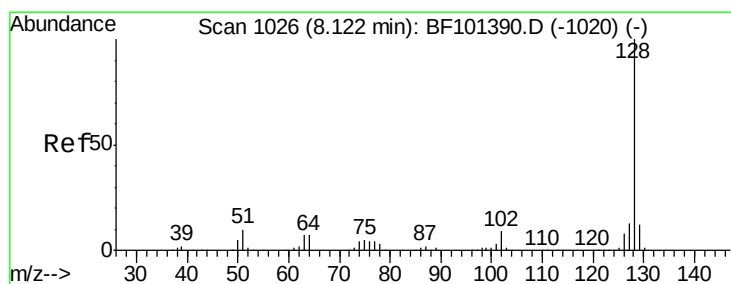
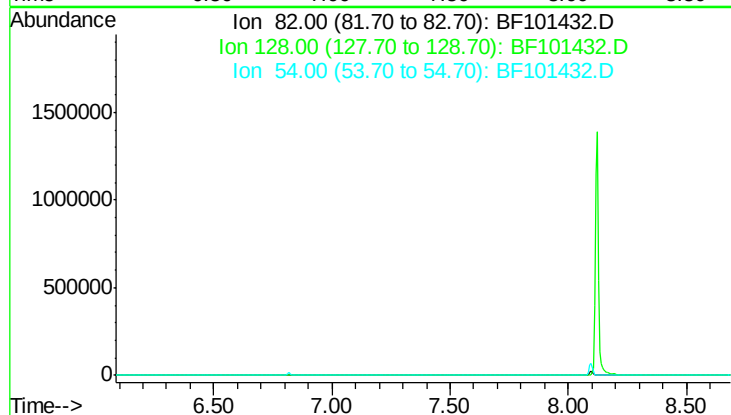




#23
 Nitrobenzene-d5
 Concen: 0.000 ng
 Expected RT: 7.39 min
 Lab File: BF101432.D
 Acq: 15 Dec 2017 9:18

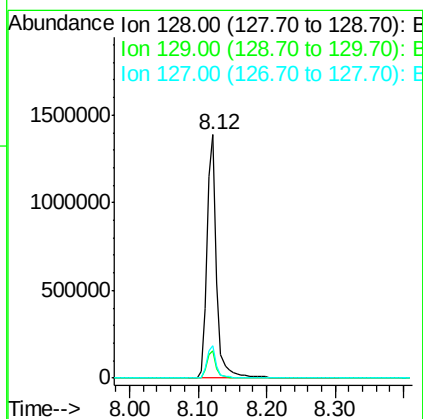
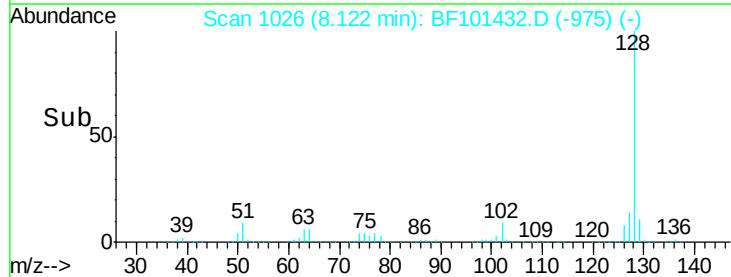
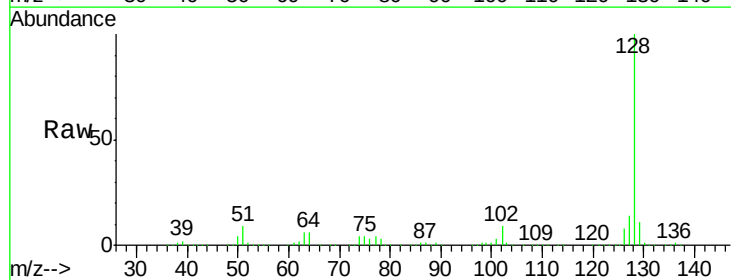
Instrument :
 BNA_F
 ClientSampleId :

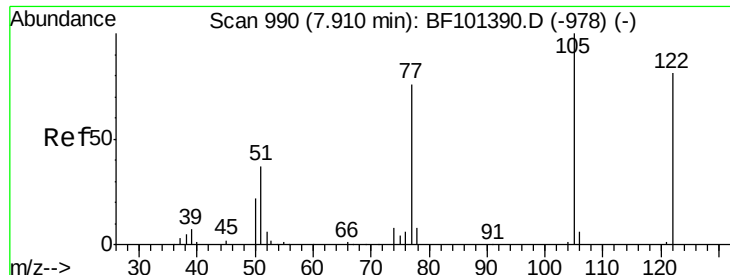
Tot Ion: 82
 Sig Exp Ratio
 82 100
 128 45.1
 54 51.8



#31
 Naphthalene
 Concen: 41.489 ng
 RT: 8.12 min Scan# 1026
 Delta R.T. -0.00 min
 Lab File: BF101432.D
 Acq: 15 Dec 2017 9:18

Tgt Ion: 128 Resp: 1388284
 Ion Ratio Lower Upper
 128 100
 129 11.0 8.8 13.2
 127 13.6 10.9 16.3

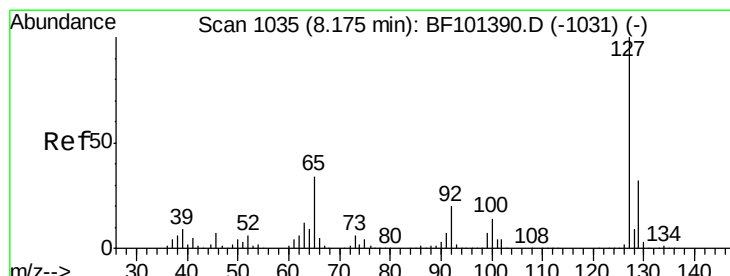
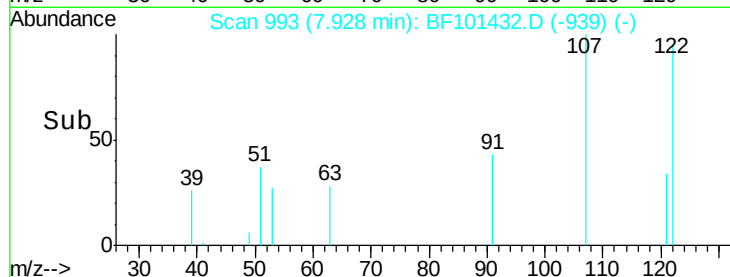
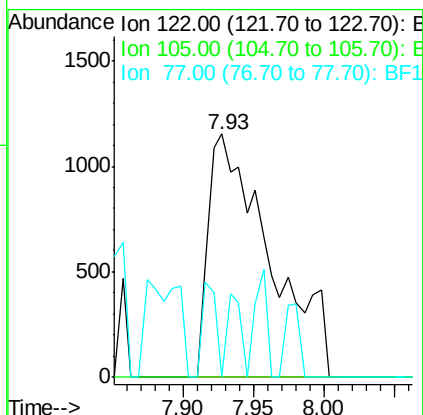
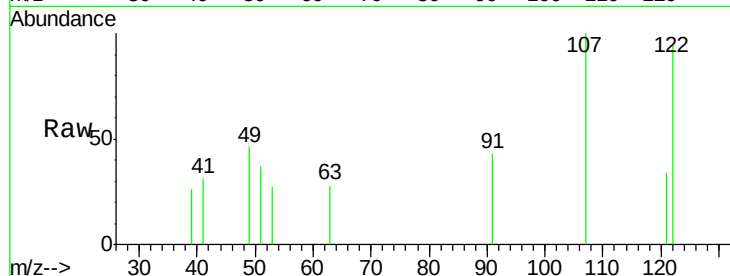




#32
Benzoic acid
Concen: 8.408 ng
RT: 7.93 min Scan# 993
Delta R.T. 0.02 min
Lab File: BF101432.D
Acq: 15 Dec 2017 9:18

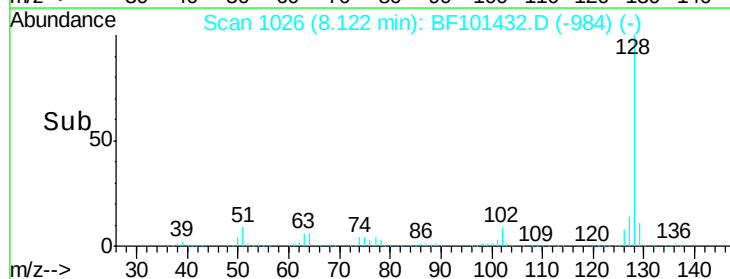
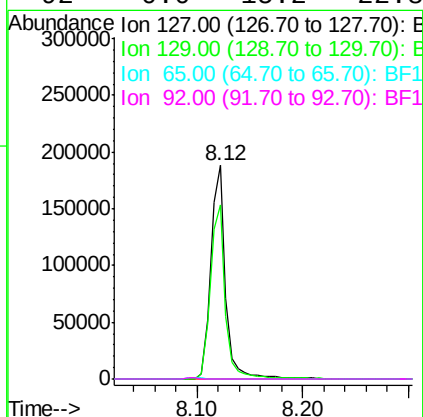
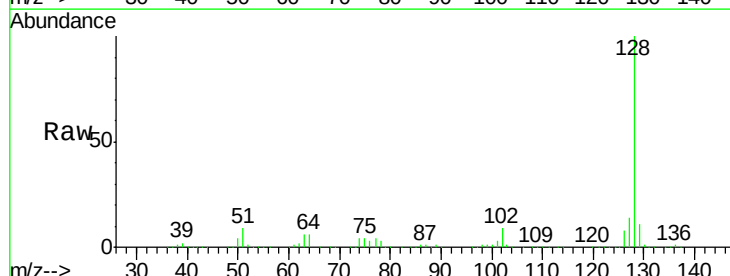
Instrument :
BNA_F
ClientSampled :

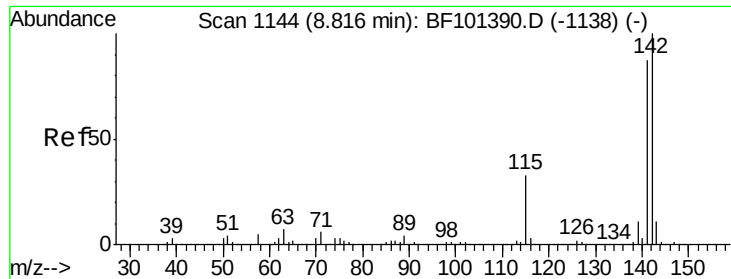
Tot Ion:122 Resp: 3482
Ion Ratio Lower Upper
122 100
105 0.0 101.1 141.1#
77 0.0 70.7 110.7#



#33
4-Chloroaniline
Concen: 12.730 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.05 min
Lab File: BF101432.D
Acq: 15 Dec 2017 9:18

Tgt Ion:127 Resp: 185139
Ion Ratio Lower Upper
127 100
129 81.4 25.9 38.9#
65 0.0 25.0 37.4#
92 0.0 15.2 22.8#

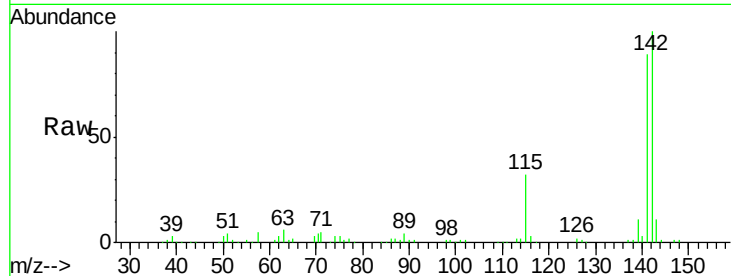




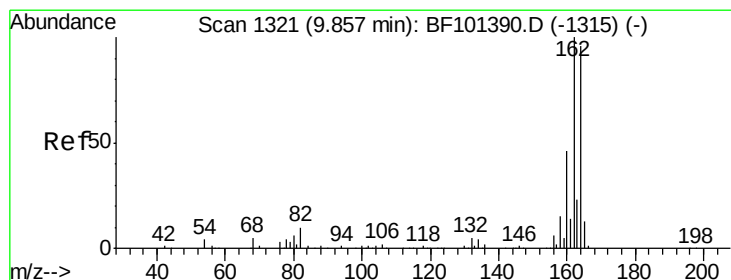
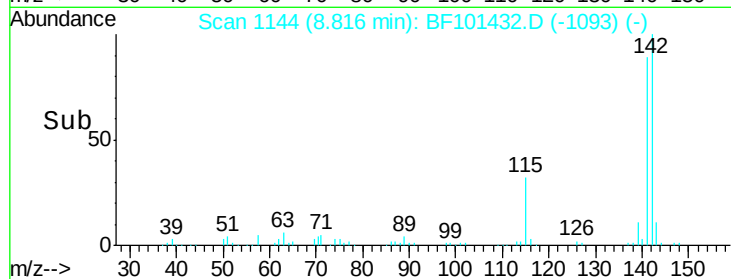
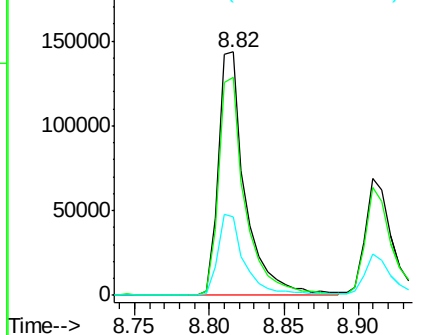
#37
 2-Methylnaphthalene
 Concen: 8.366 ng
 RT: 8.82 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: BF101432.D
 Acq: 15 Dec 2017 9:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:142	Resp:	182388
Ion Ratio	Lower	Upper
142	100	
141	89.3	70.8 106.2
115	32.3	26.1 39.1

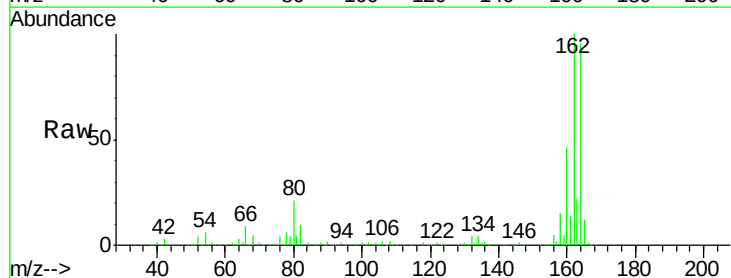


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

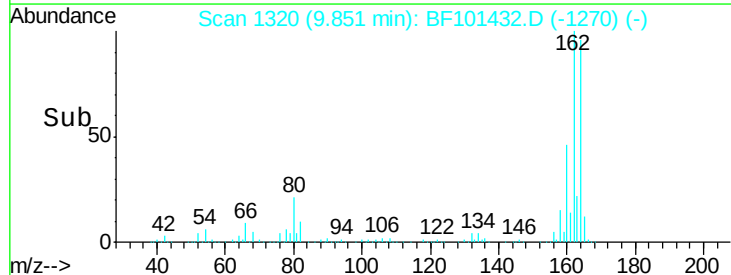
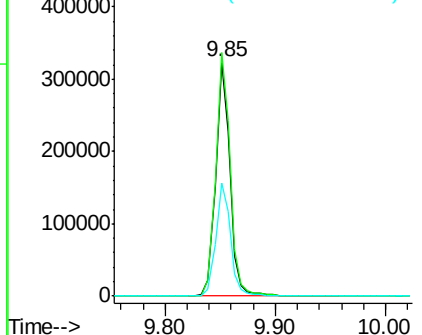


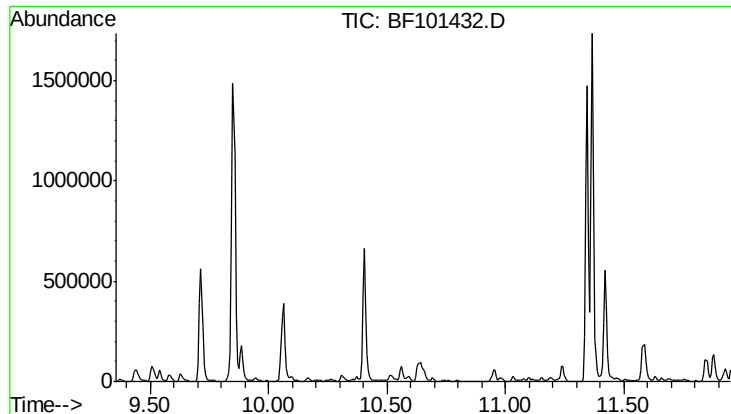
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: BF101432.D
 Acq: 15 Dec 2017 9:18

Tgt Ion:164	Resp:	289441
Ion Ratio	Lower	Upper
164	100	
162	104.3	86.1 129.1
160	48.3	38.3 57.5



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: 0.000 ng

Expected RT: 10.65 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

Instrument :

BNA_F

ClientSampleId :

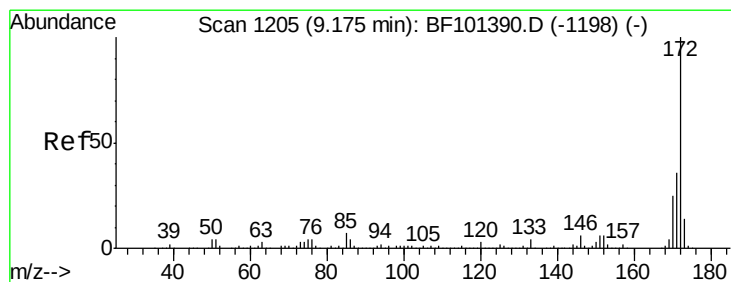
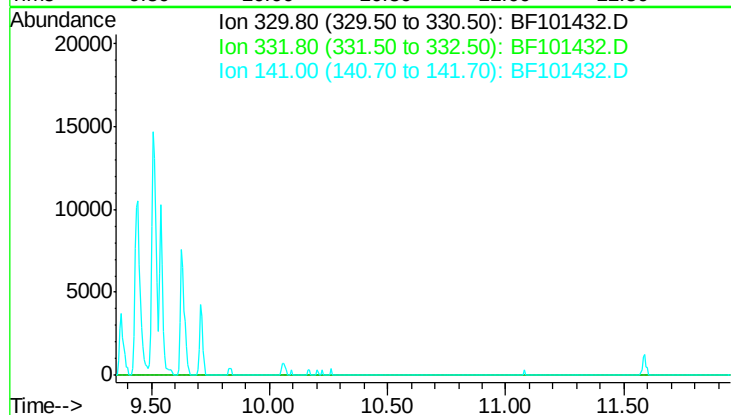
Tot Ion: 330

Sig Exp Ratio

330 100

332 96.3

141 37.4



#44

2-Fluorobiphenyl

Concen: 0.016 ng

RT: 9.18 min Scan# 1206

Delta R.T. 0.01 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

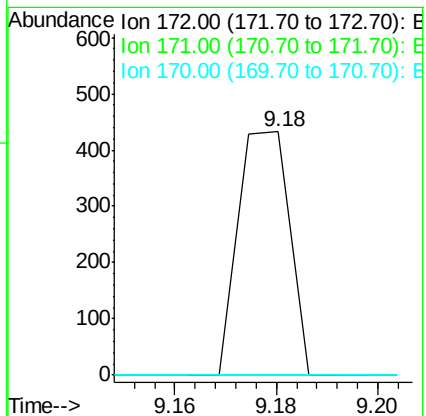
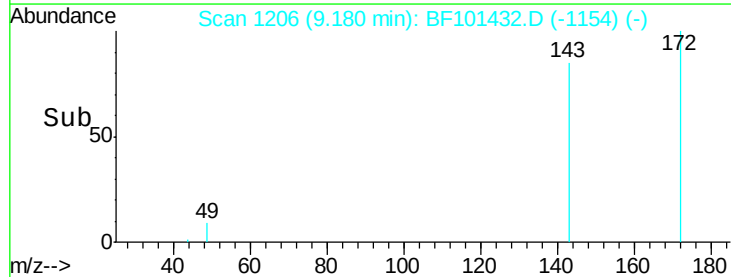
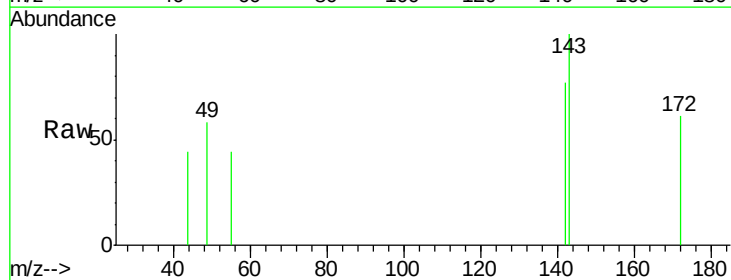
Tgt Ion: 172 Resp: 304

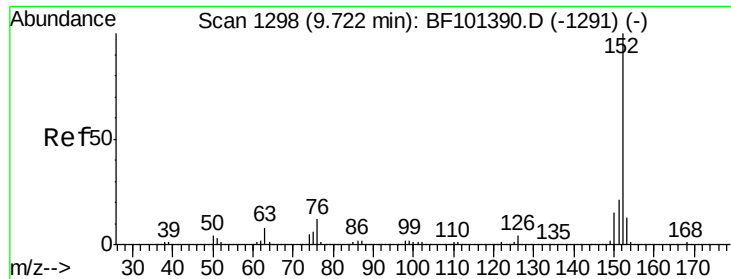
Ion Ratio Lower Upper

172 100

171 0.0 29.7 44.5#

170 0.0 19.6 29.4#





#48

Acenaphthylene

Concen: 7.640 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

Instrument :

BNA_F

ClientSampleId :

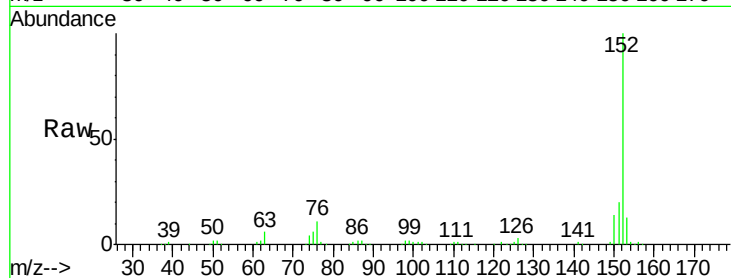
Tot Ion:152 Resp: 237021

Ion Ratio Lower Upper

152 100

151 20.0 16.3 24.5

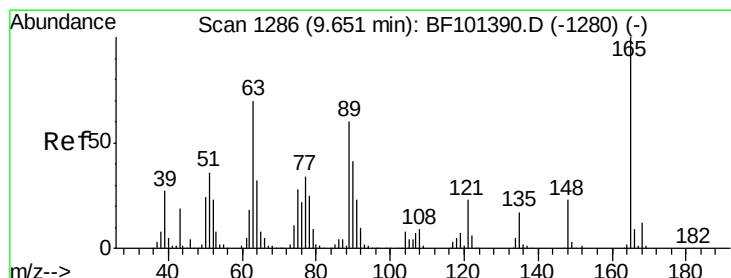
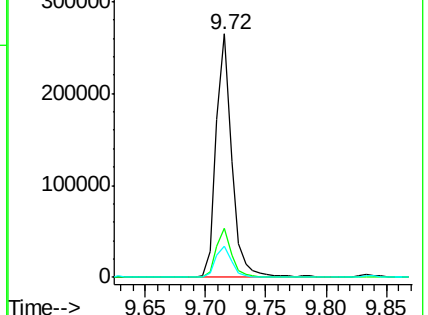
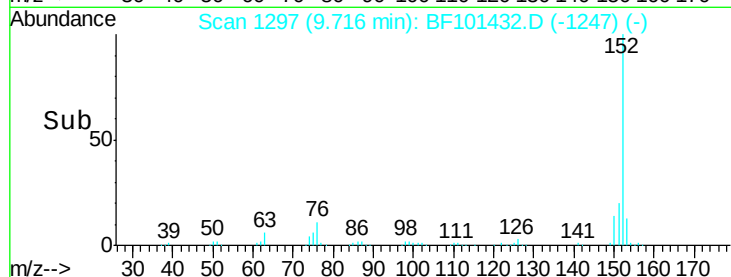
153 12.9 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 8.309 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.20 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

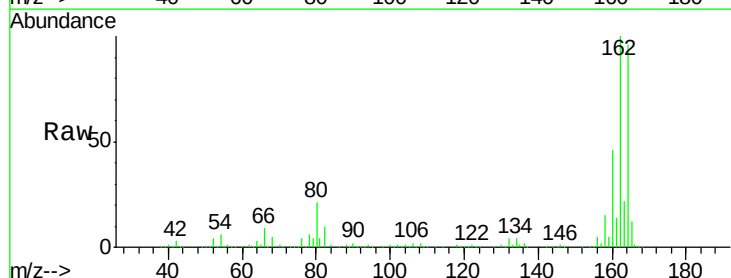
Tgt Ion:165 Resp: 39316

Ion Ratio Lower Upper

165 100

63 1.4 44.7 67.1#

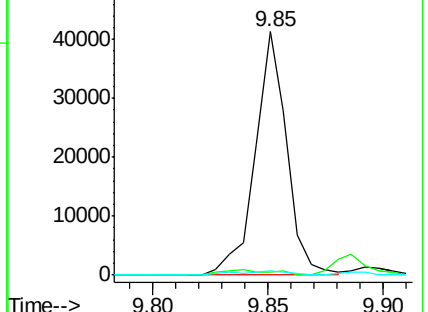
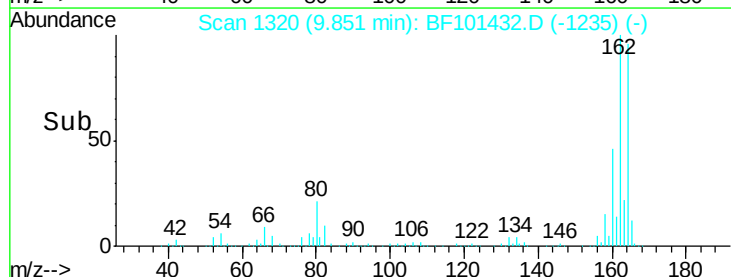
89 1.6 44.0 66.0#

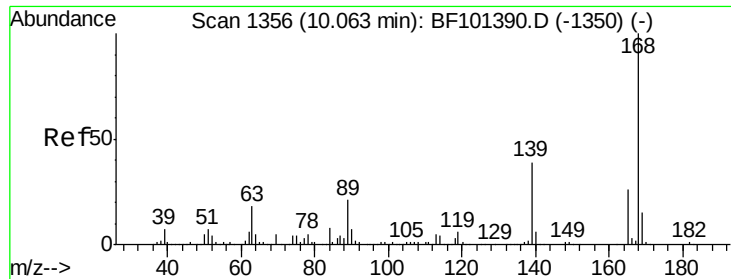


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#54

Dibenzenofuran

Concen: 7.237 ng

RT: 10.06 min Scan# 1356

Delta R.T. -0.00 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

Instrument :

BNA_F

ClientSampled :

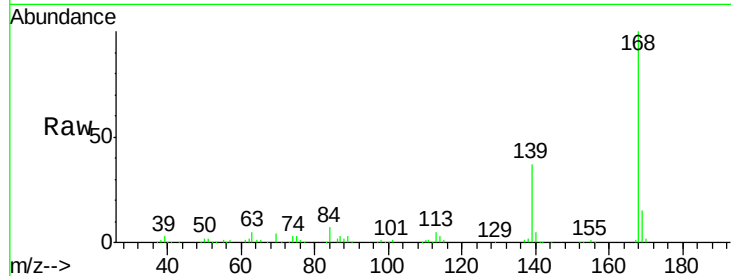
Tot Ion:168 Resp: 171409

Ion Ratio Lower Upper

168 100

139 36.6 30.1 45.1

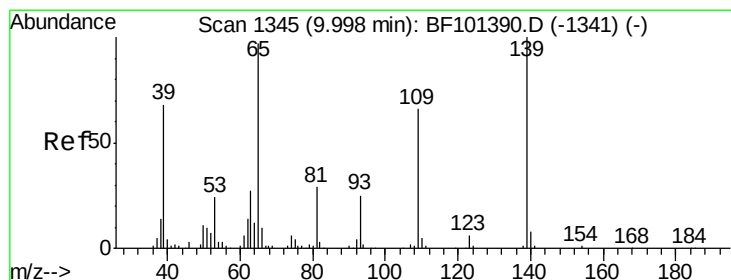
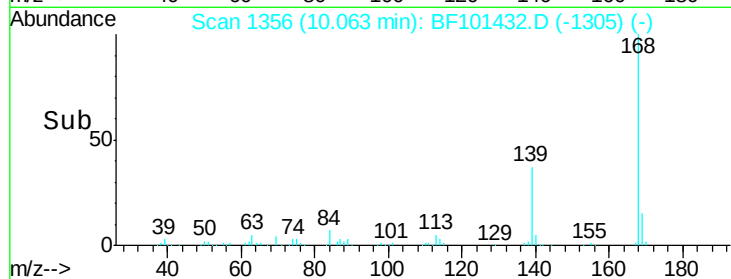
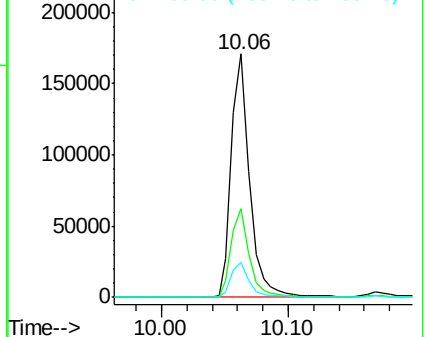
169 14.6 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 24.283 ng

RT: 10.06 min Scan# 1356

Delta R.T. 0.06 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

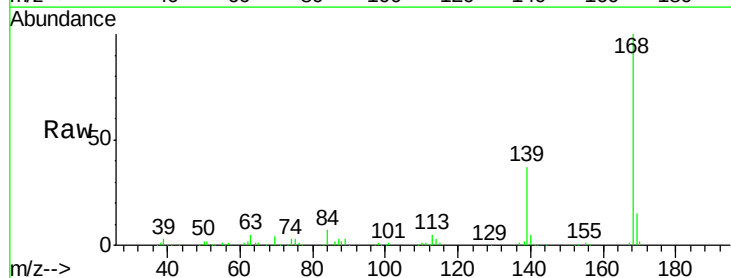
Tgt Ion:139 Resp: 62465

Ion Ratio Lower Upper

139 100

109 0.9 48.4 88.4#

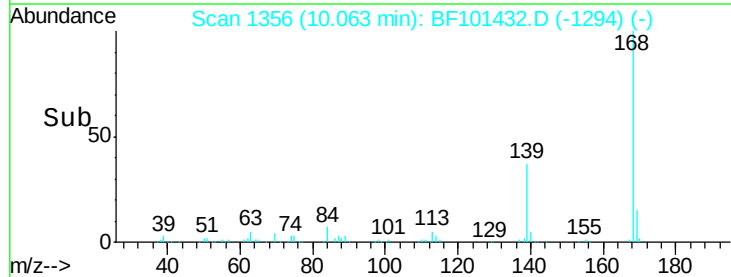
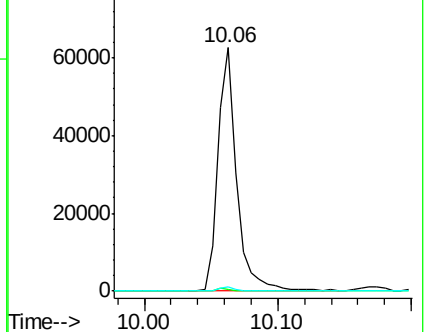
65 1.6 72.6 112.6#

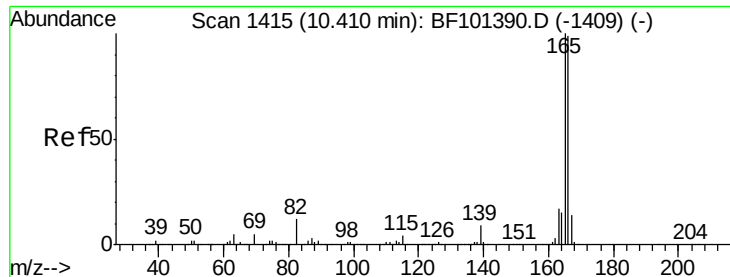


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

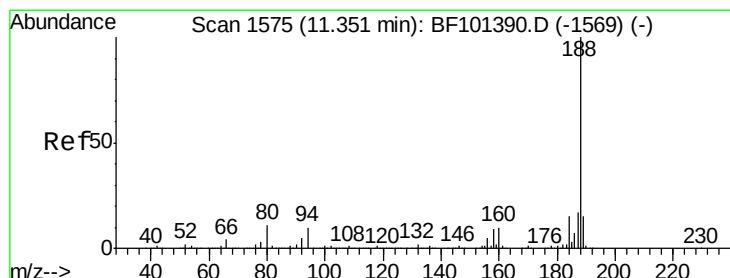
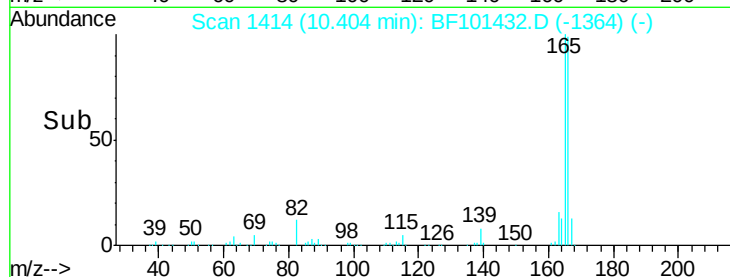
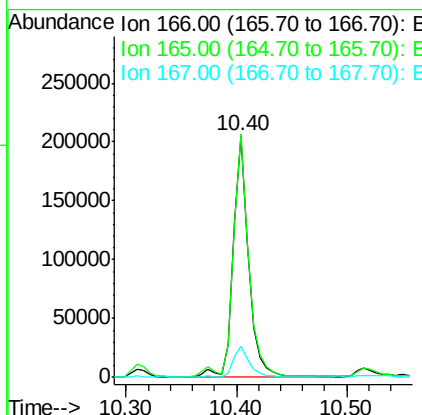
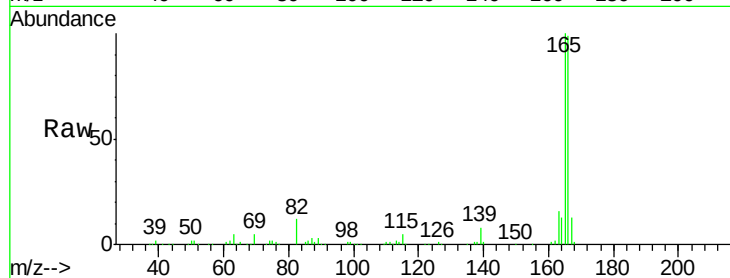




#57
 Fluorene
 Concen: 10.198 ng
 RT: 10.40 min Scan# 1414
 Delta R.T. -0.01 min
 Lab File: BF101432.D
 Acq: 15 Dec 2017 9:18

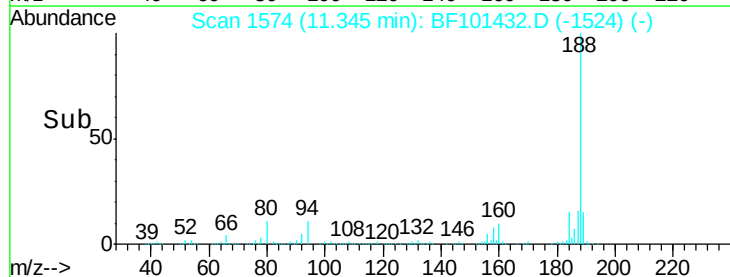
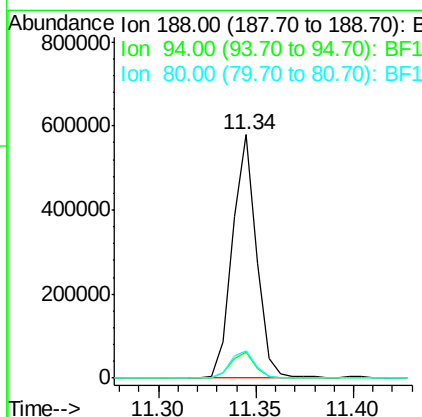
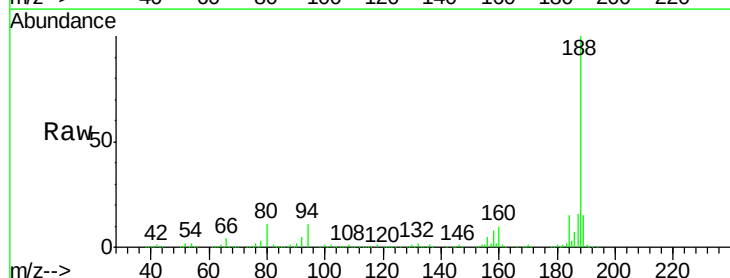
Instrument :
 BNA_F
 ClientSampled :

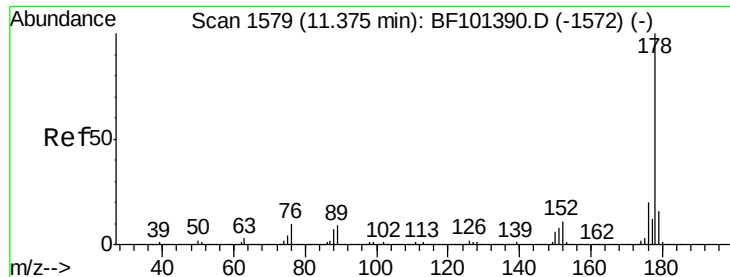
Tot Ion	Ratio	Lower	Upper
166	100		
165	100.7	79.8	119.8
167	13.1	10.6	16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BF101432.D
 Acq: 15 Dec 2017 9:18

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.5	12.7
80	11.0	9.2	13.8





#70

Phenanthrene

Concen: 22.727 ng

RT: 11.37 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

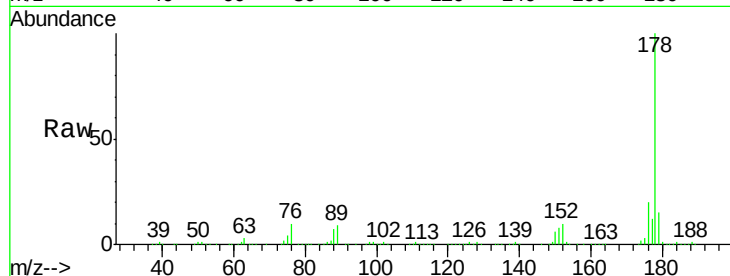
Instrument :

BNA_F

ClientSampled :

Tot Ion:178 Resp: 623996

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.5	13.0	19.6

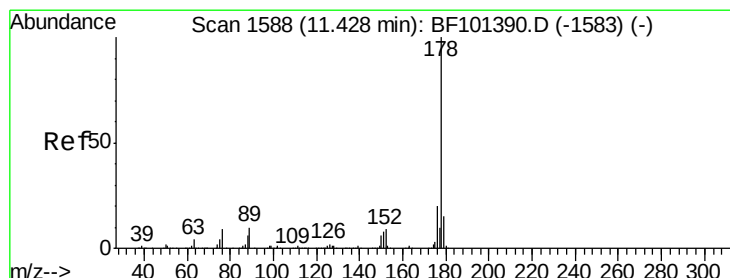
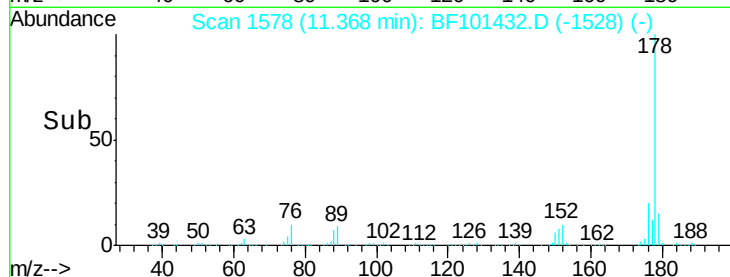
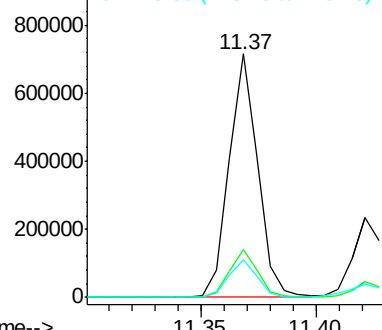


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 8.222 ng

RT: 11.42 min Scan# 1587

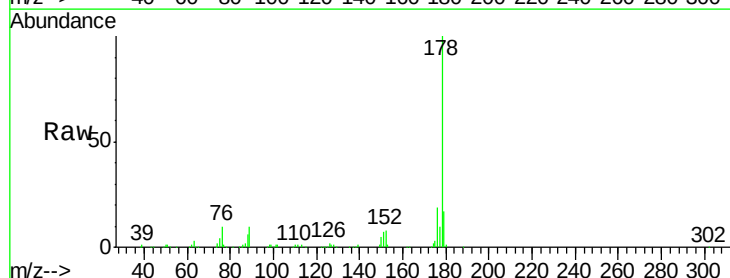
Delta R.T. -0.01 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

Tgt Ion:178 Resp: 230584

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	16.8	12.6	19.0

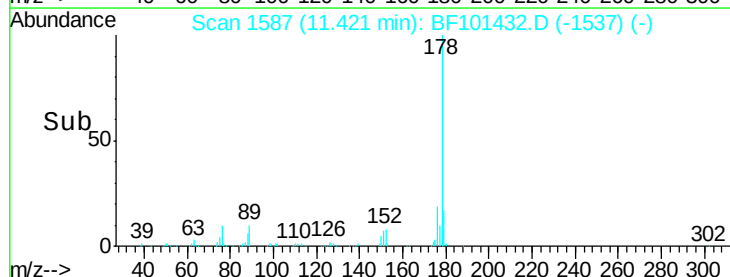
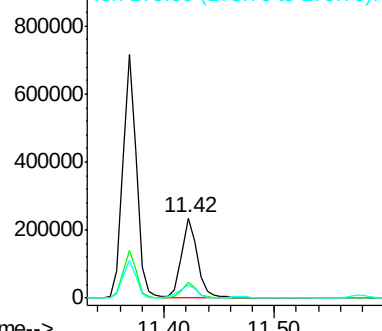


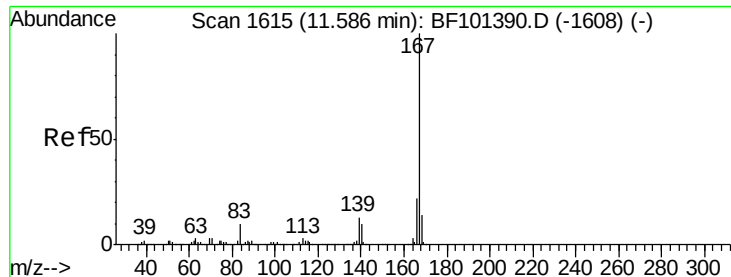
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.972 ng

RT: 11.59 min Scan# 1615

Delta R.T. -0.00 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

Instrument :

BNA_F

ClientSampleId :

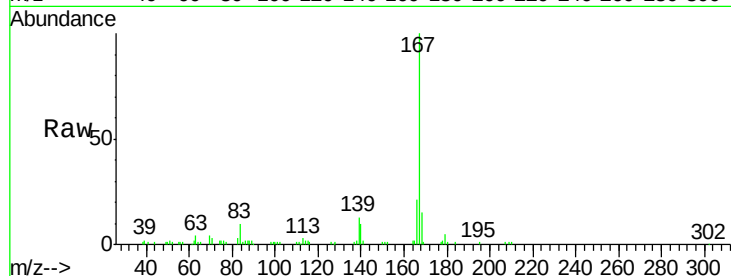
Tot Ion:167 Resp: 78044

Ion Ratio Lower Upper

167 100

166 21.0 17.6 26.4

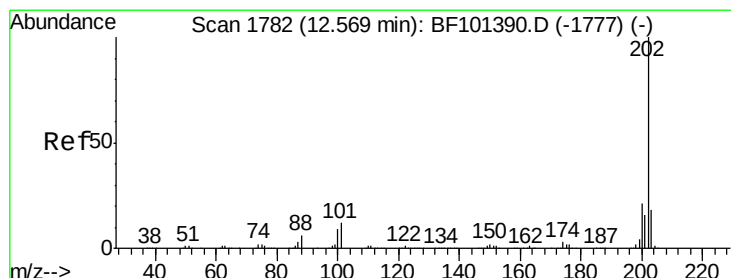
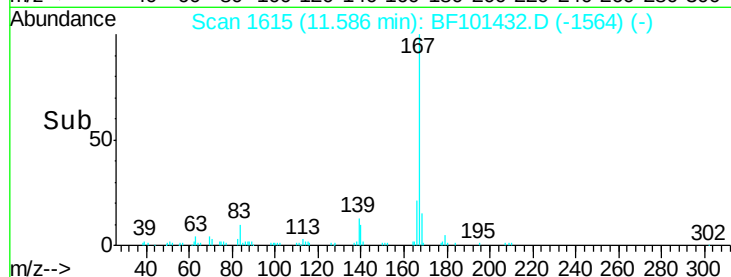
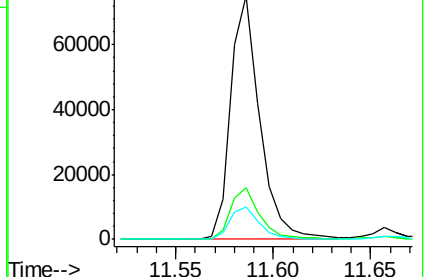
139 13.4 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 12.652 ng

RT: 12.56 min Scan# 1781

Delta R.T. -0.01 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

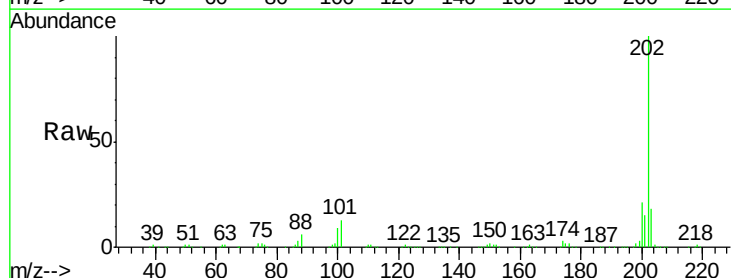
Tgt Ion:202 Resp: 364618

Ion Ratio Lower Upper

202 100

101 12.6 0.0 34.1

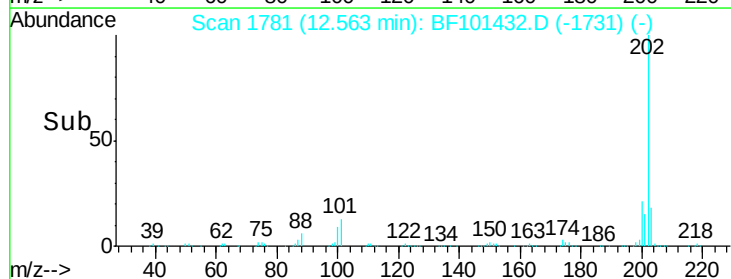
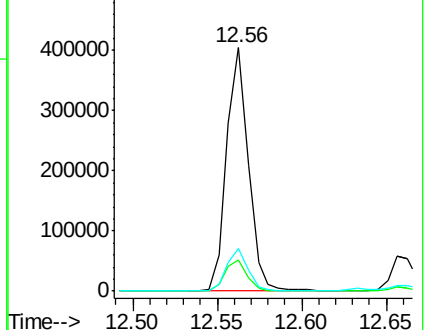
203 17.6 0.0 38.1

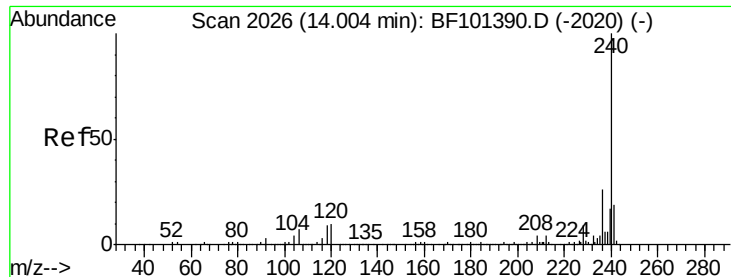


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

Instrument :

BNA_F

ClientSampleId :

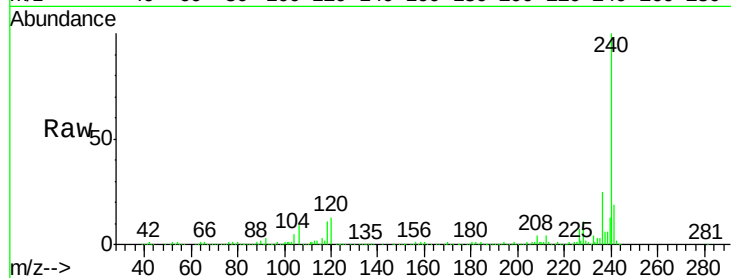
Tot Ion:240 Resp: 328532

Ion Ratio Lower Upper

240 100

120 12.8 9.5 14.3

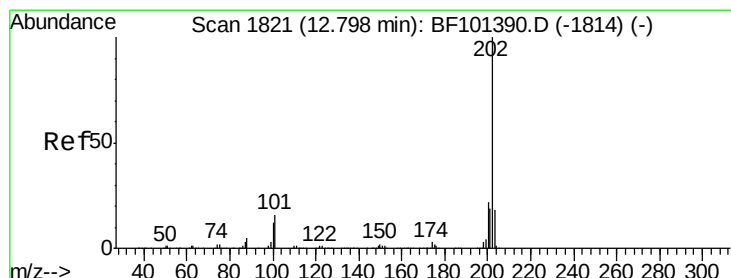
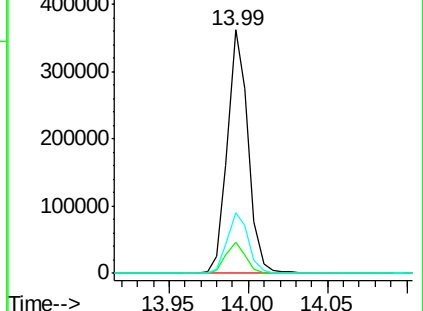
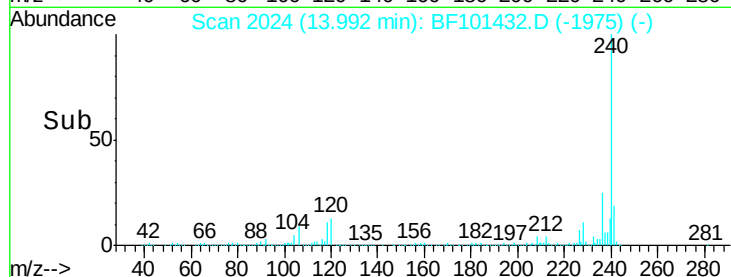
236 25.0 20.7 31.1



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: 10.630 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

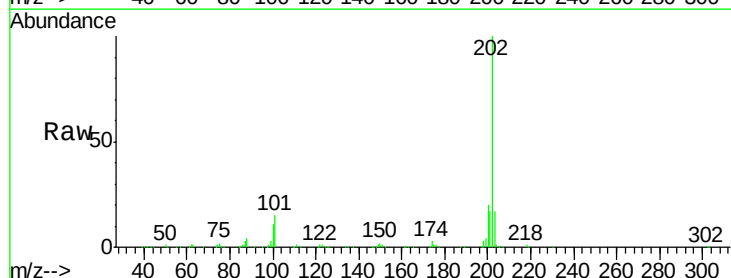
Tgt Ion:202 Resp: 262099

Ion Ratio Lower Upper

202 100

200 20.5 17.4 26.2

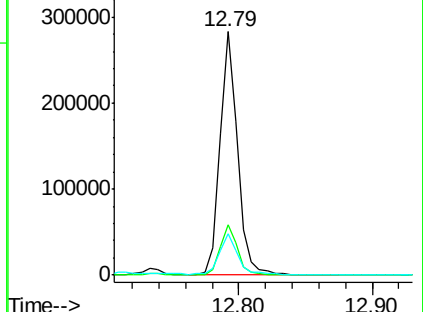
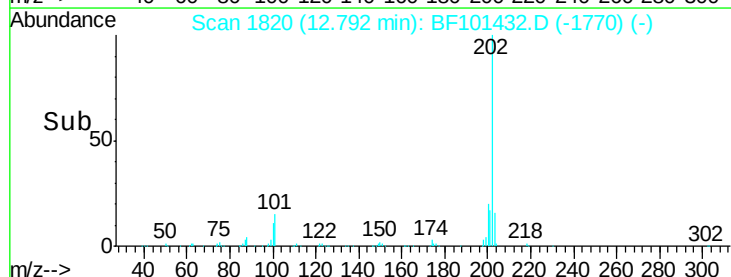
203 16.9 14.3 21.5

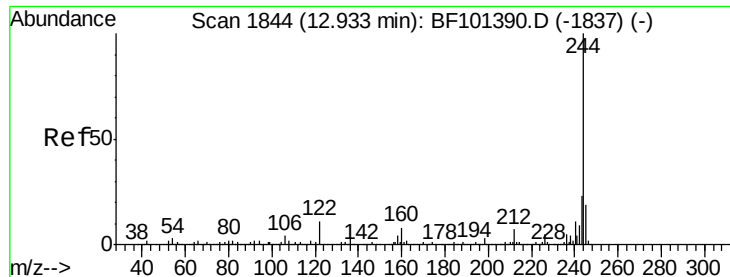


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

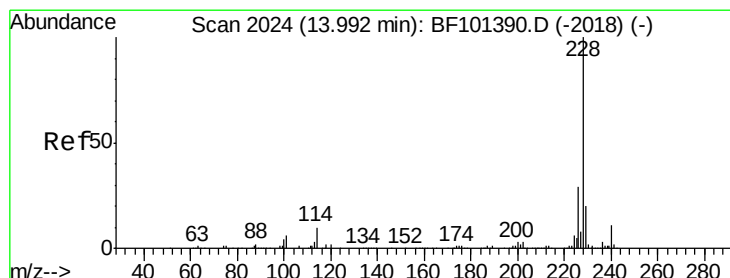
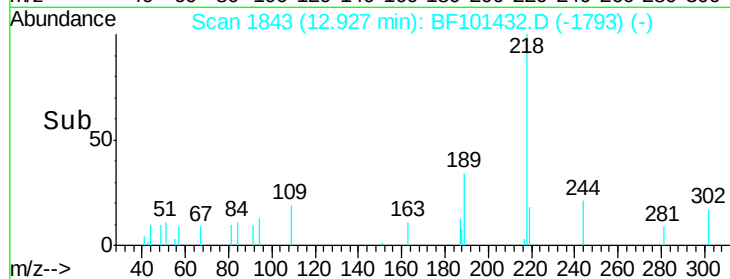
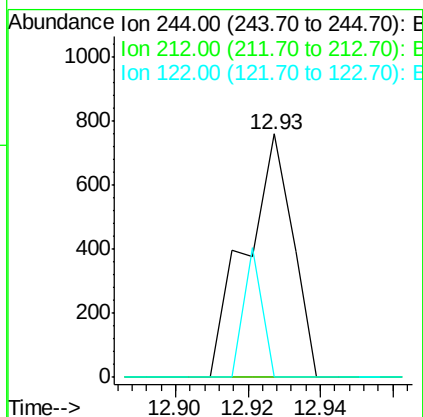
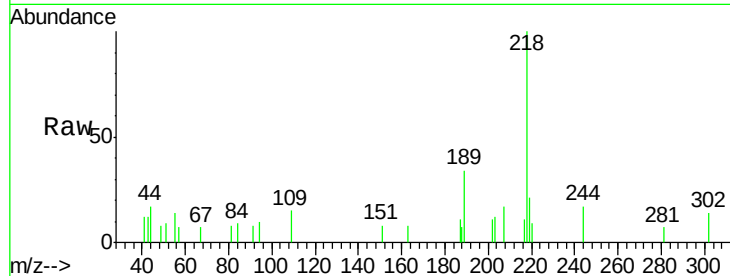




#78
 Terphenyl-d14
 Concen: 0.050 ng
 RT: 12.93 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BF101432.D
 Acq: 15 Dec 2017 9:18

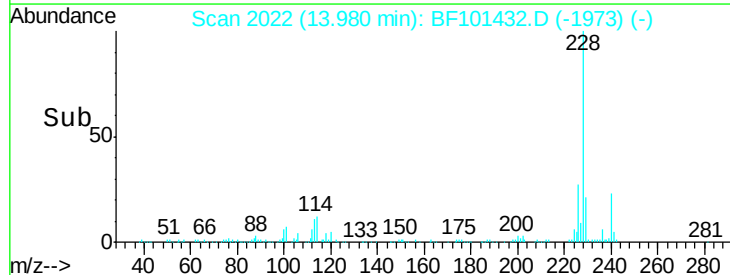
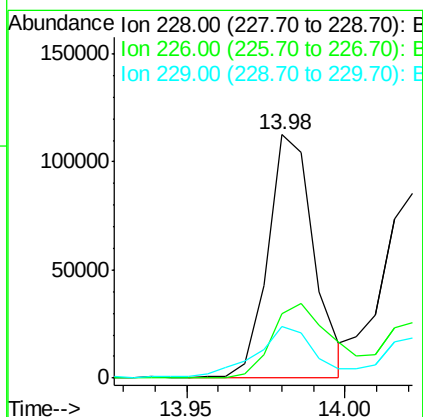
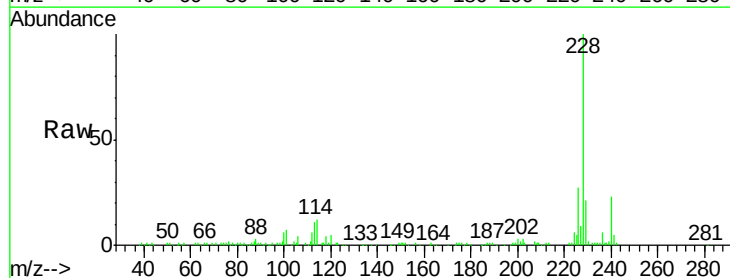
Instrument :
 BNA_F
 ClientSampleId :

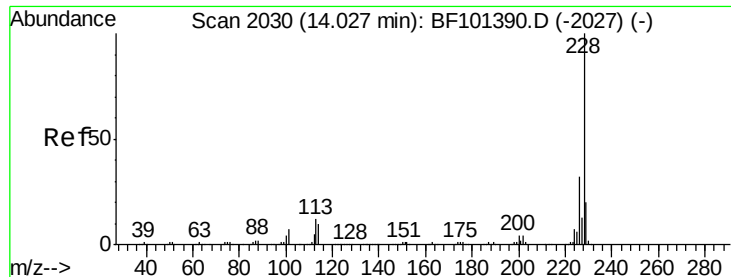
Tot Ion:244 Resp: 678
 Ion Ratio Lower Upper
 244 100
 212 0.0 5.4 8.0#
 122 0.0 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 5.236 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. -0.01 min
 Lab File: BF101432.D
 Acq: 15 Dec 2017 9:18

Tgt Ion:228 Resp: 113594
 Ion Ratio Lower Upper
 228 100
 226 26.7 22.6 33.8
 229 21.1 15.8 23.6

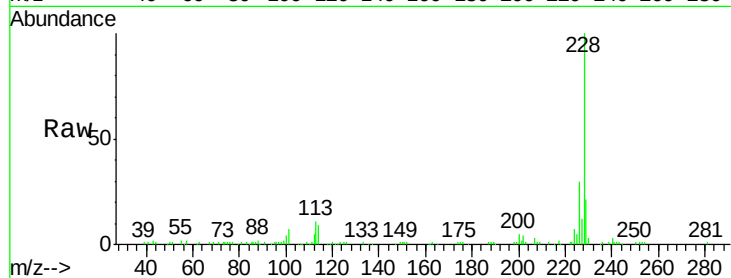




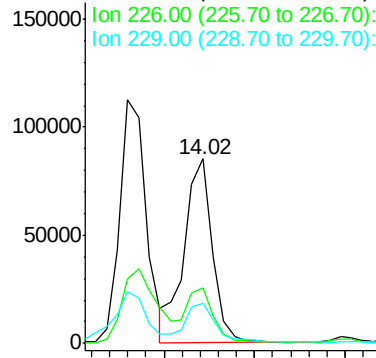
#82
Chrysene
Concen: 4.488 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF101432.D
Acq: 15 Dec 2017 9:18

Instrument :
BNA_F
ClientSampled :

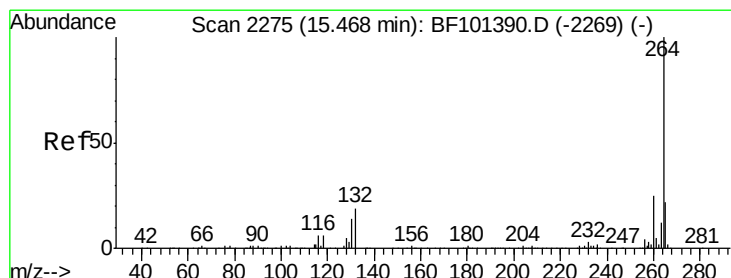
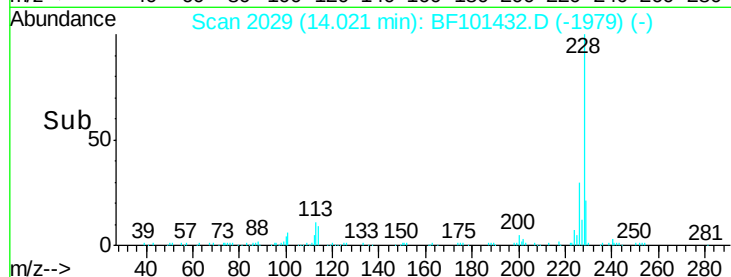
Tot Ion:228 Resp: 91919
Ion Ratio Lower Upper
228 100
226 29.9 25.0 37.6
229 21.4 16.2 24.4



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

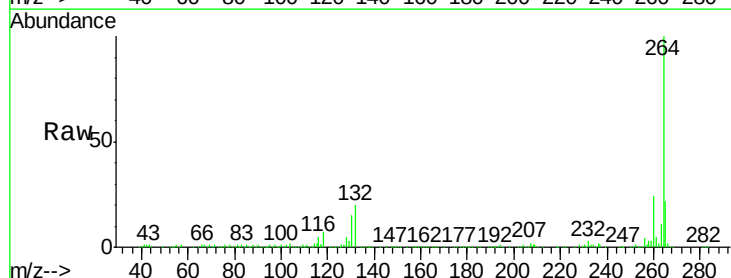


Time-->

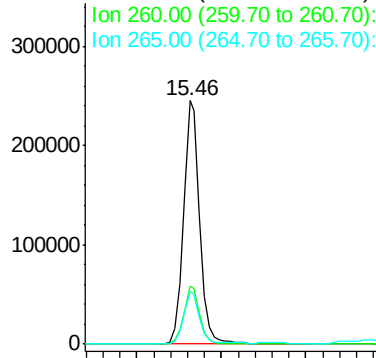


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.01 min
Lab File: BF101432.D
Acq: 15 Dec 2017 9:18

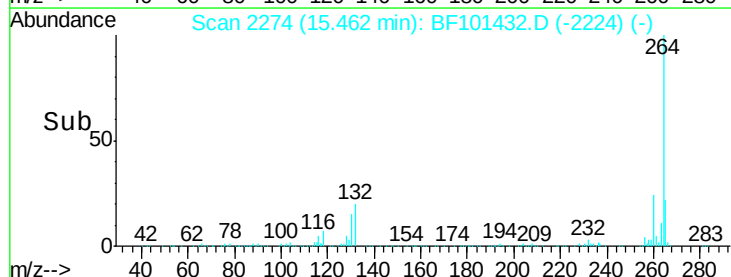
Tgt Ion:264 Resp: 334140
Ion Ratio Lower Upper
264 100
260 24.0 19.2 28.8
265 21.8 17.5 26.3

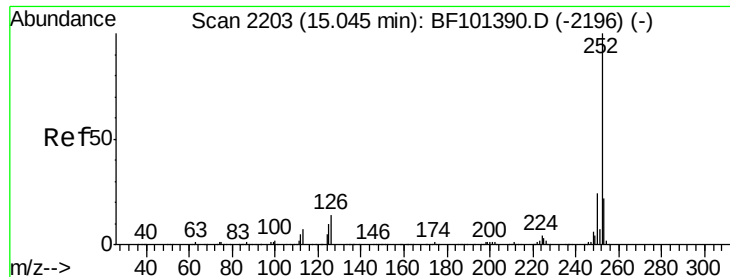


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time-->





#87

Benzo(b)fluoranthene

Concen: 6.532 ng

RT: 15.04 min Scan# 2202

Delta R.T. -0.01 min

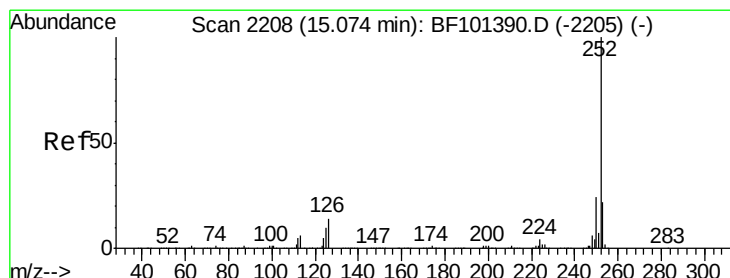
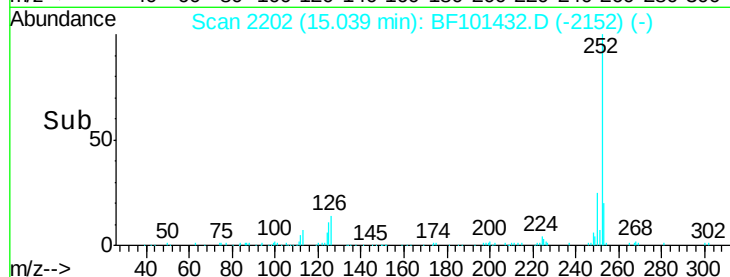
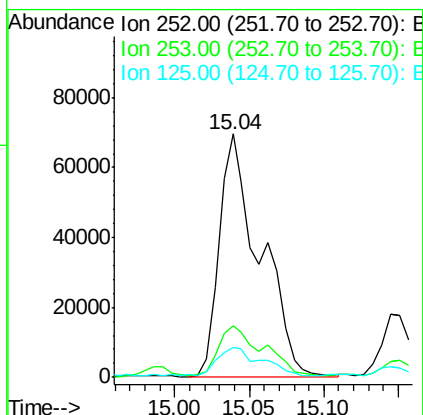
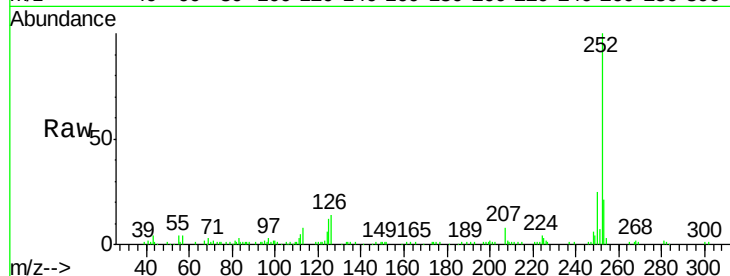
Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 133026

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.0	25.6
125	12.0	9.0	13.6



#88

Benzo(k)fluoranthene

Concen: 6.718 ng

RT: 15.04 min Scan# 2202

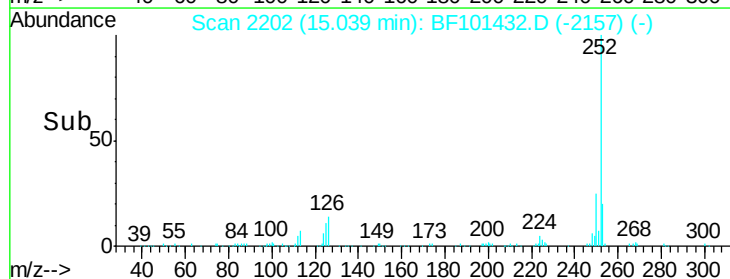
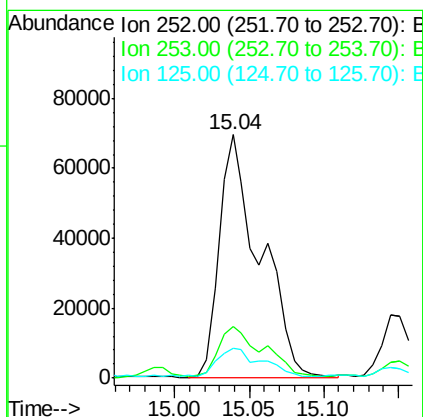
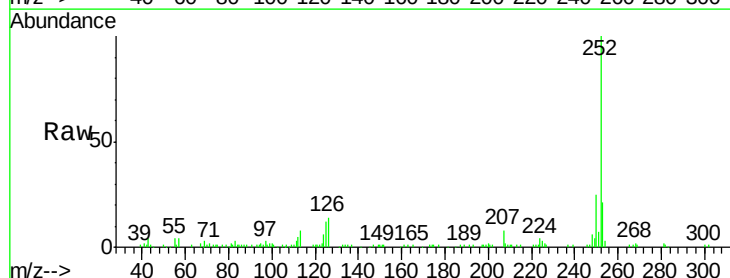
Delta R.T. -0.04 min

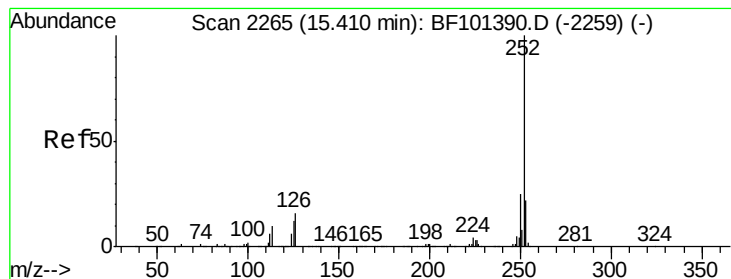
Lab File: BF101432.D

Acq: 15 Dec 2017 9:18

Tgt Ion:252 Resp: 133026

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.9	26.9
125	12.0	10.2	15.2





#89
 Benzo(a)pyrene
 Concen: 4.122 ng
 RT: 15.40 min Scan# 2264
 Delta R.T. -0.01 min
 Lab File: BF101432.D
 Acq: 15 Dec 2017 9:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	13.5	9.8	14.6

