

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021218\
 Data File : BF102946.D
 Acq On : 13 Feb 2018 3:40
 Operator : SJ/JU
 Sample : J1519-01 20X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 13 04:50:13 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	175533	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	693354	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	269530	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	363378	20.00	ng	0.00
75) Chrysene-d12	14.06	240	282887	20.00	ng	0.00
86) Perylene-d12	15.54	264	268259	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	52722	4.56	ng	0.00
7) Phenol-d6	6.50	99	65092	4.68	ng	0.00
23) Nitrobenzene-d5	7.44	82	41764	4.18	ng	-0.01
41) 2,4,6-Tribromophenol	10.71	330	7272	3.35	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	75652	4.66	ng	0.00
78) Terphenyl-d14	12.99	244	46944	3.93	ng	0.00

Target Compounds

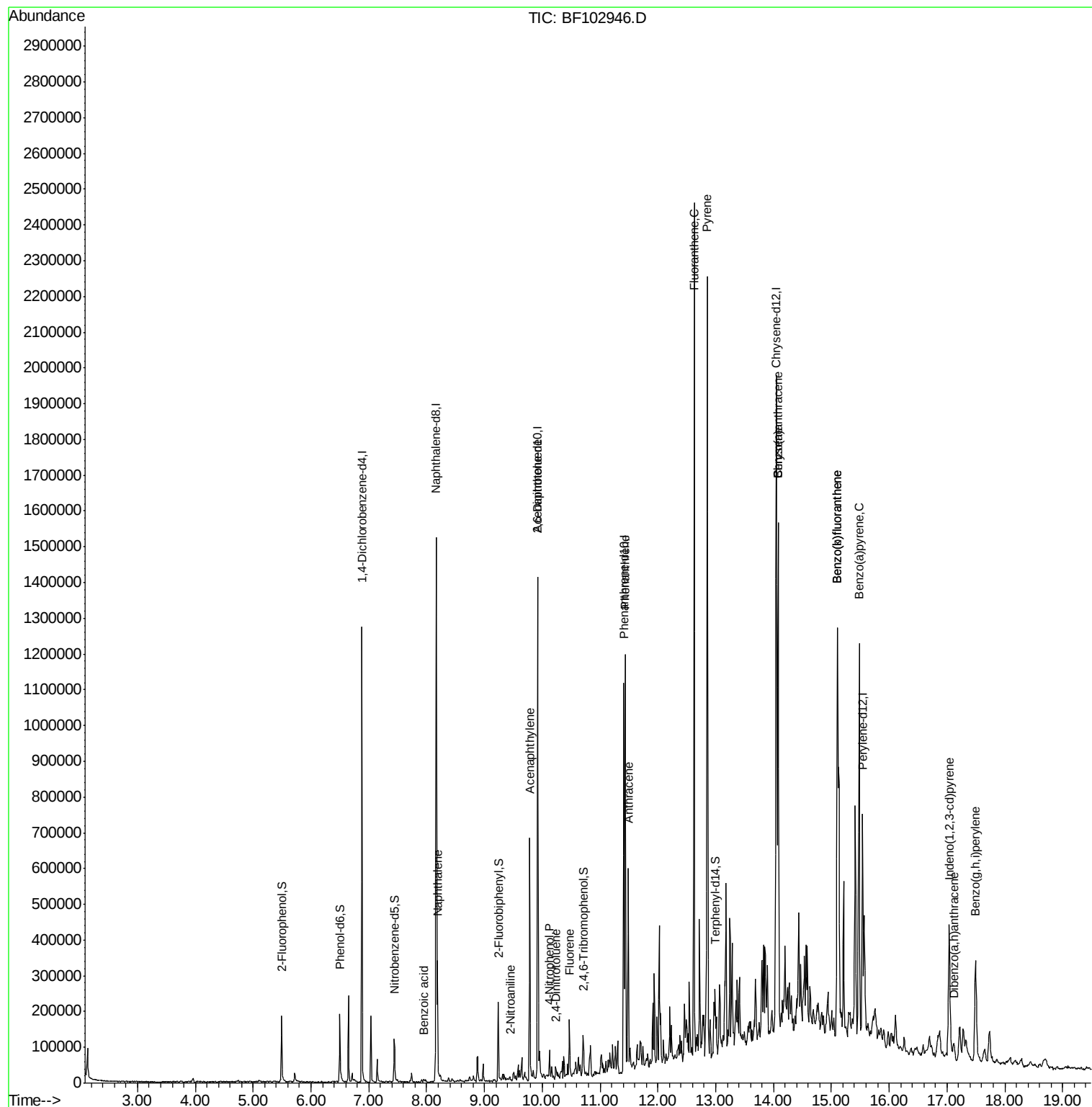
						Qvalue
24) Nitrobenzene	7.44	77	109	Below Cal	#	38
31) Naphthalene	8.19	128	124914	3.69	ng	99
32) Benzoic acid	7.96	122	110	8.56	ng	# 31
47) 2-Nitroaniline	9.45	65	131	3.49	ng	# 2
48) Acenaphthylene	9.78	152	297952	10.73	ng	99
50) 2,6-Dinitrotoluene	9.92	165	36149	9.04	ng	# 26
55) 4-Nitrophenol	10.13	139	10919	6.59	ng	# 13
56) 2,4-Dinitrotoluene	10.23	165	1459	3.33	ng	# 68
57) Fluorene	10.47	166	48070	2.82	ng	99
70) Phenanthrene	11.43	178	385587	19.05	ng	99
71) Anthracene	11.49	178	203570	9.89	ng	99
74) Fluoranthene	12.63	202	872655	42.86	ng	98
77) Pvrene	12.86	202	841669	37.94	ng	99
80) Benzo(a)anthracene	14.08	228	475130	26.71	ng	95
82) Chrysene	14.08	228	475130	26.49	ng	98
85) Indeno(1,2,3-cd)pyrene	17.04	276	231130	15.54	ng	96
87) Benzo(b)fluoranthene	15.10	252	950216	54.63	ng	# 97
88) Benzo(k)fluoranthene	15.10	252	950216	57.18	ng	98
89) Benzo(a)pvrene	15.48	252	502022	32.07	ng	97
90) Dibenzo(a,h)anthracene	17.12	278	26809	2.11	ng	93
91) Benzo(g,h,i)perylene	17.50	276	216480	17.41	ng	97

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

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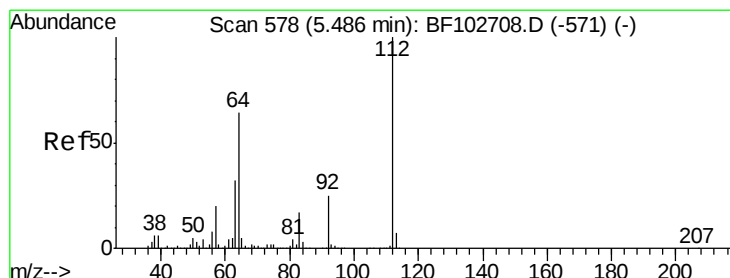
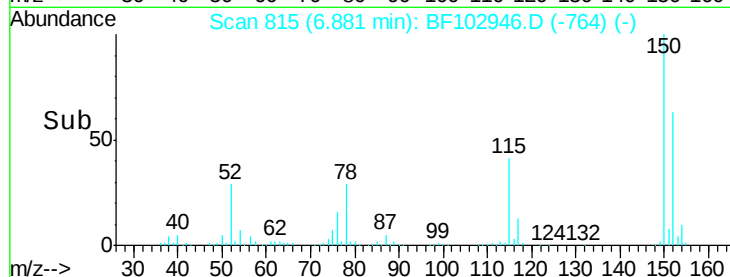
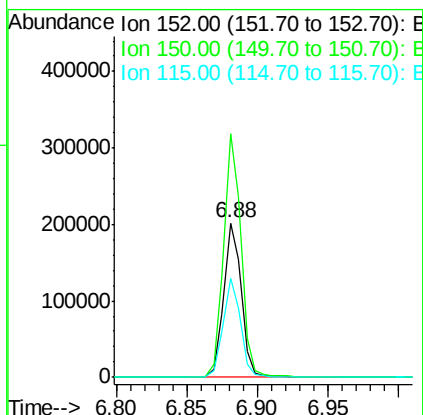
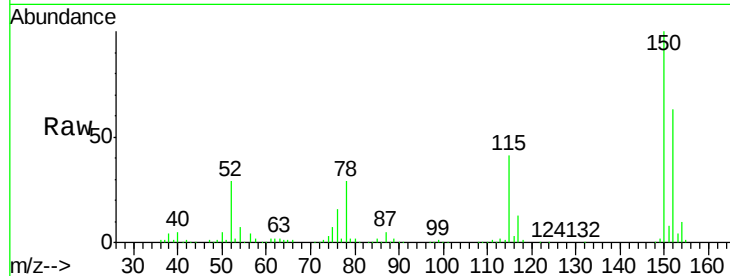


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

Instrument :
BNA_F
ClientSampleId :

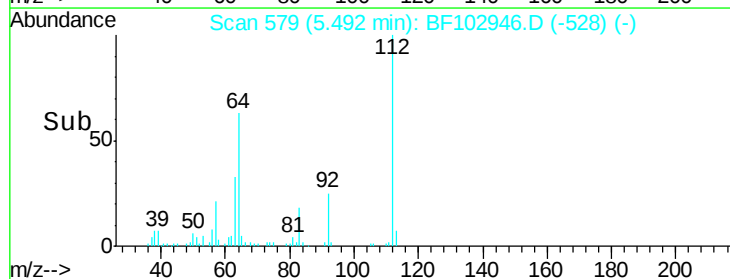
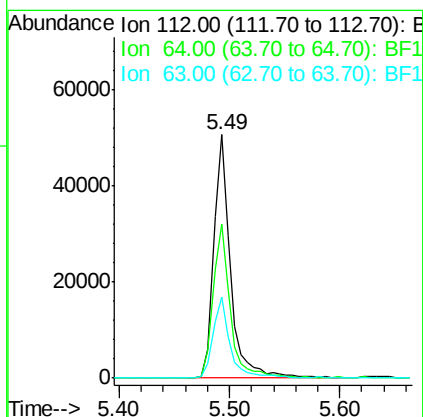
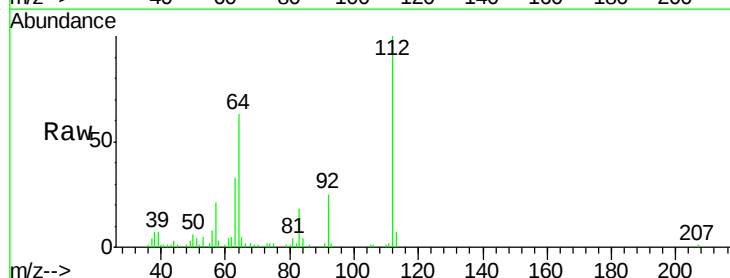
Tot Ion:152 Resp: 175533
Ion Ratio Lower Upper
152 100
150 158.0 124.6 186.8
115 64.4 50.1 75.1

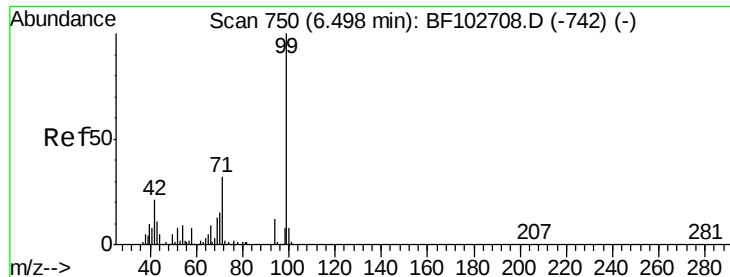


#5

2-Fluorophenol
Concen: 4.56 ng
RT: 5.49 min Scan# 579
Delta R.T. -0.00 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

Tgt Ion:112 Resp: 52722
Ion Ratio Lower Upper
112 100
64 63.4 47.9 71.9
63 33.4 23.7 35.5





#7

Phenol-d6

Concen: 4.68 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

Instrument :

BNA_F

ClientSampleId :

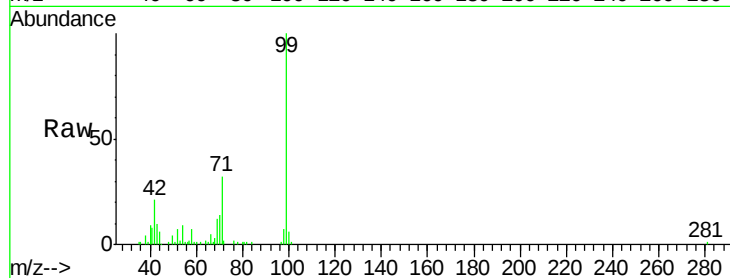
Tot Ion: 99 Resp: 65092

Ion Ratio Lower Upper

99 100

42 21.3 14.5 21.7

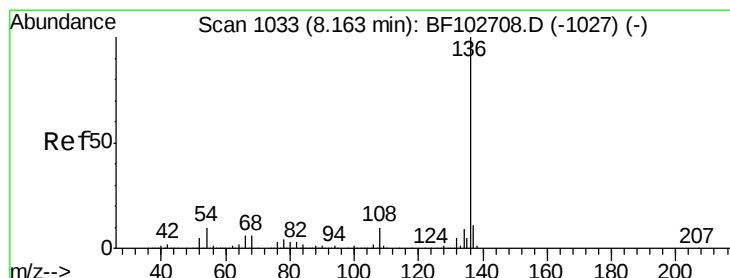
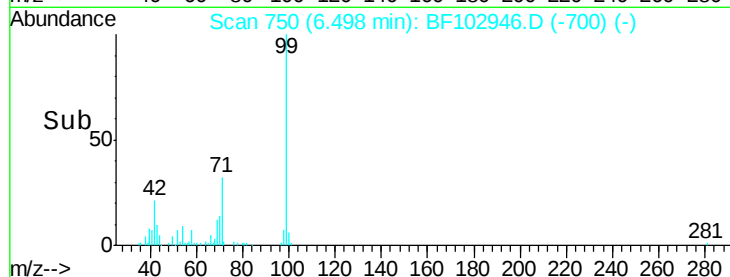
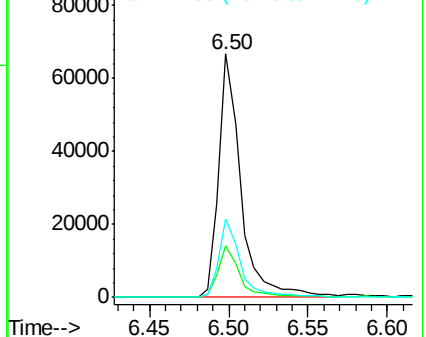
71 32.4 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

Tgt Ion: 136 Resp: 693354

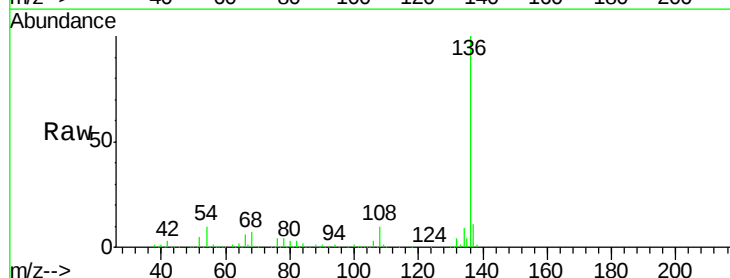
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 10.4 6.6 9.8#

68 7.0 5.0 7.4

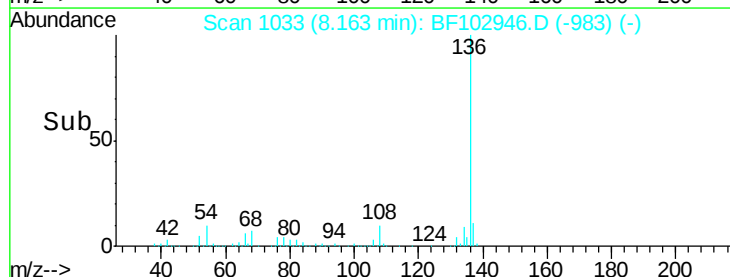
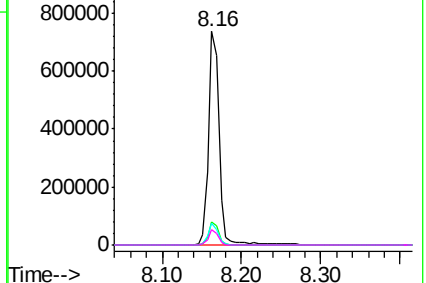


Abundance Ion 136.00 (135.70 to 136.70): E

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

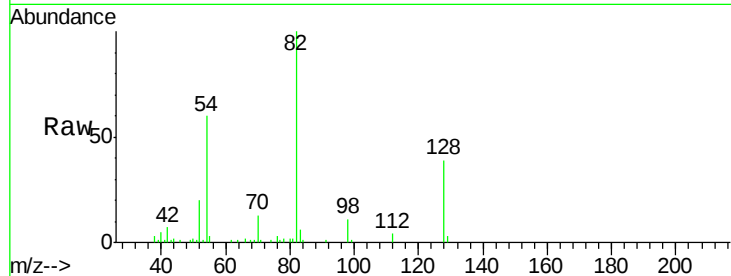




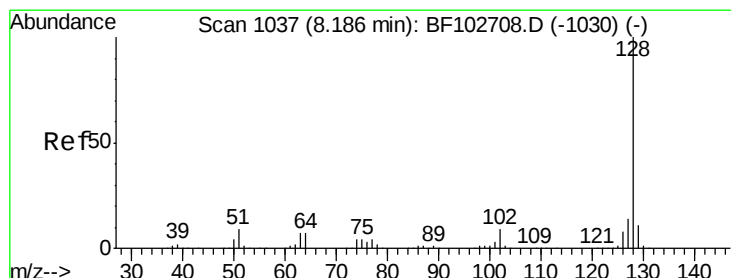
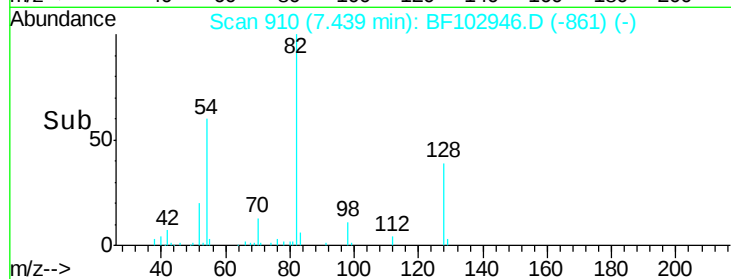
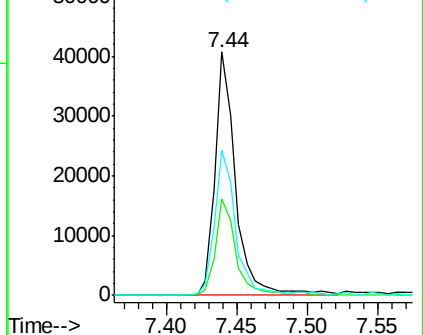
#23
Nitrobenzene-d5
Concen: 4.18 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	41764
Ion Ratio	Lower	Upper	
82	100		
128	39.4	36.1	54.1
54	59.7	41.4	62.2

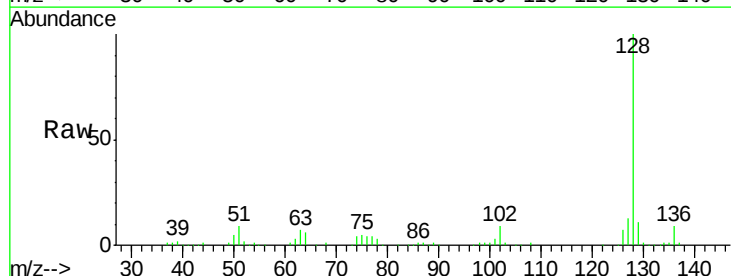


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

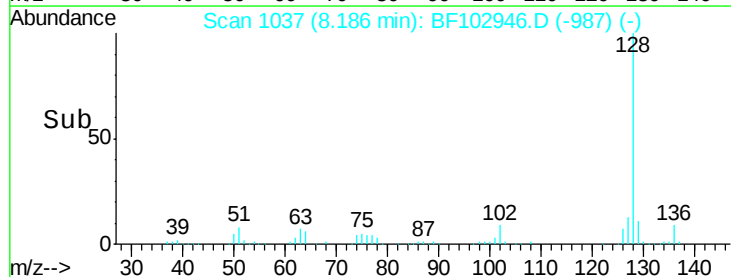
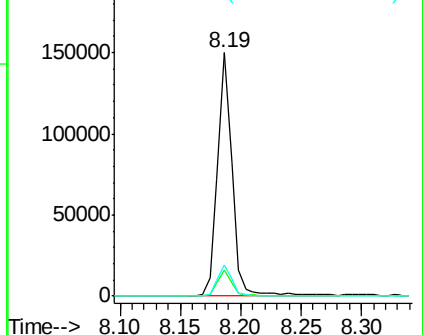


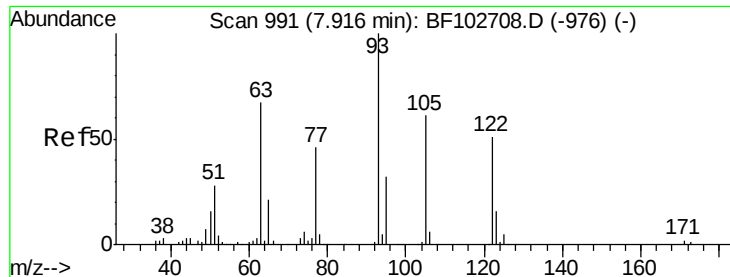
#31
Naphthalene
Concen: 3.69 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

Tgt Ion	128	Resp	124914
Ion Ratio	Lower	Upper	
128	100		
129	10.9	8.8	13.2
127	13.0	10.9	16.3



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





#32

Benzoic acid

Concen: 8.56 ng

RT: 7.96 min Scan# 998

Delta R.T. 0.02 min

Lab File: BF102946.D

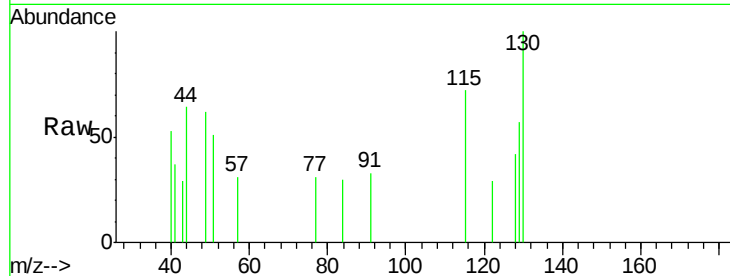
Acq: 13 Feb 2018 3:40

Instrument :

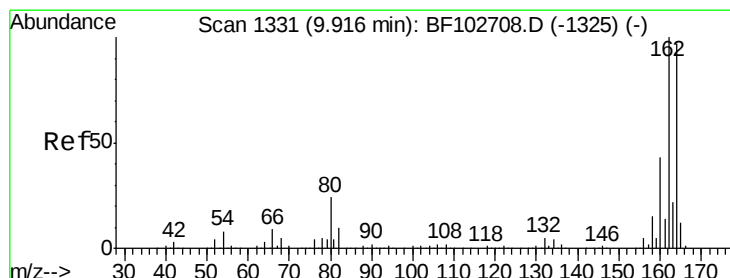
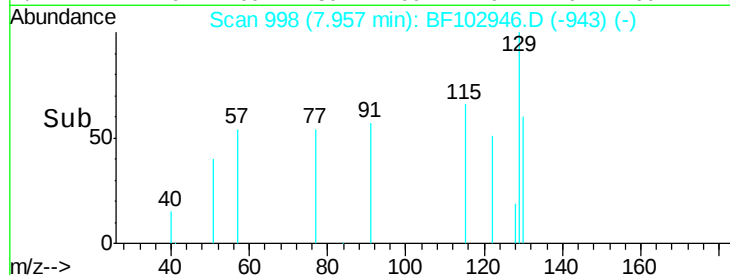
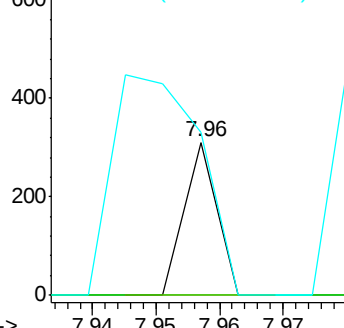
BNA_F

ClientSampled :

Tot Ion:122 Resp: 110
 Ion Ratio Lower Upper
 122 100
 105 0.0 101.1 141.1#
 77 106.8 70.7 110.7



Abundance Ion 122.00 (121.70 to 122.70): E
 Ion 105.00 (104.70 to 105.70): E
 Ion 77.00 (76.70 to 77.70): BF1



#38

Acenaphthene-d10

Concen: 20.00 ng

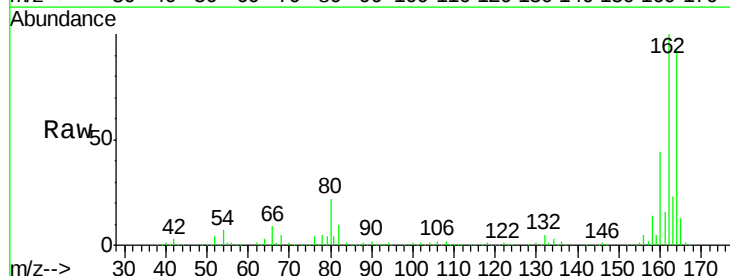
RT: 9.92 min Scan# 1332

Delta R.T. -0.00 min

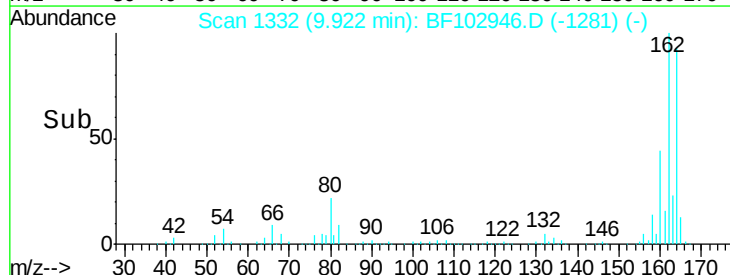
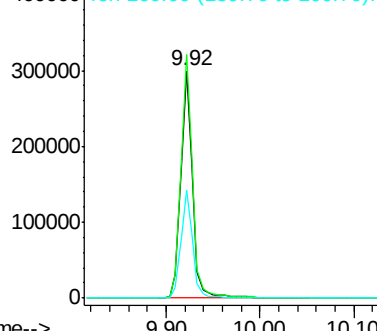
Lab File: BF102946.D

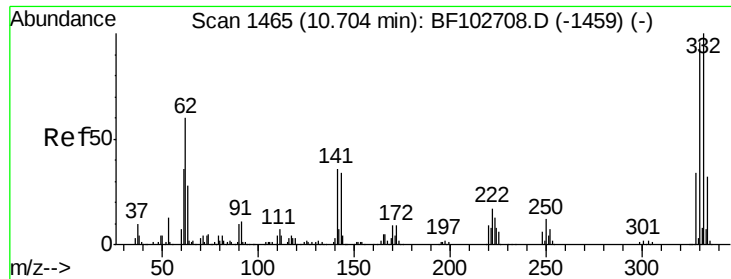
Acq: 13 Feb 2018 3:40

Tgt Ion:164 Resp: 269530
 Ion Ratio Lower Upper
 164 100
 162 107.2 86.1 129.1
 160 47.4 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

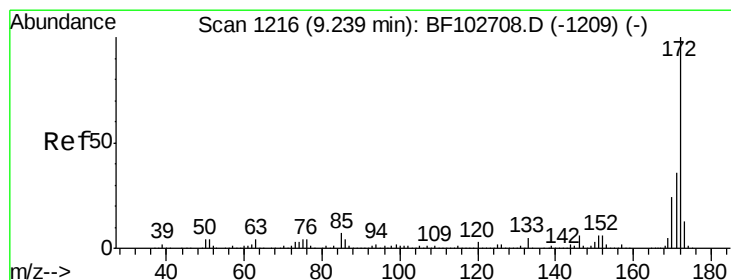
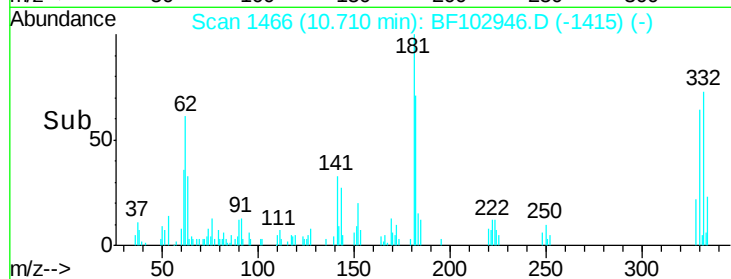
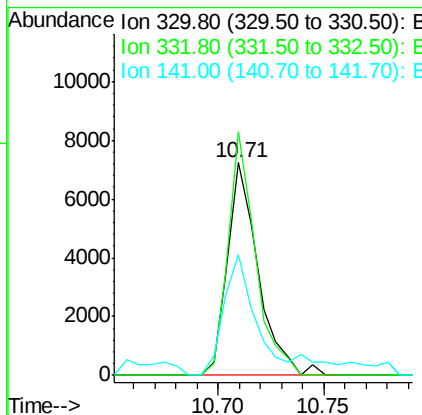
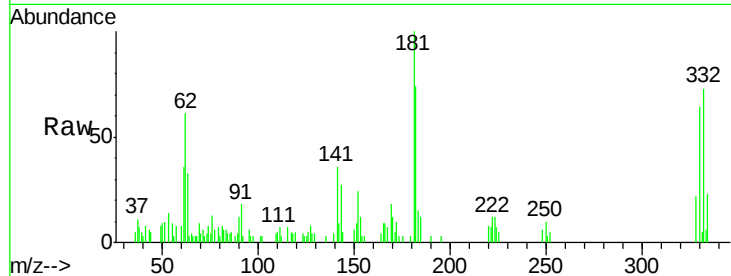




#41
 2,4,6-Tribromophenol
 Concen: 3.35 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: BF102946.D
 Acq: 13 Feb 2018 3:40

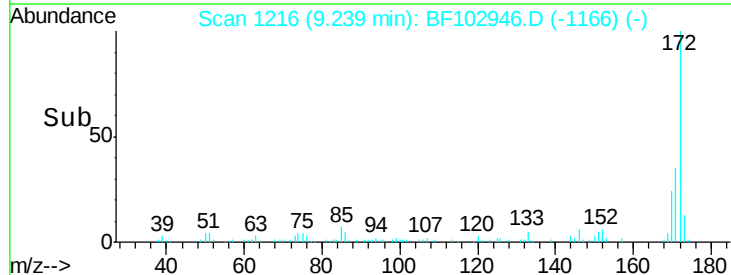
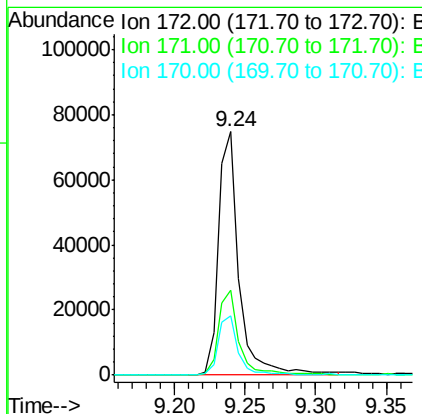
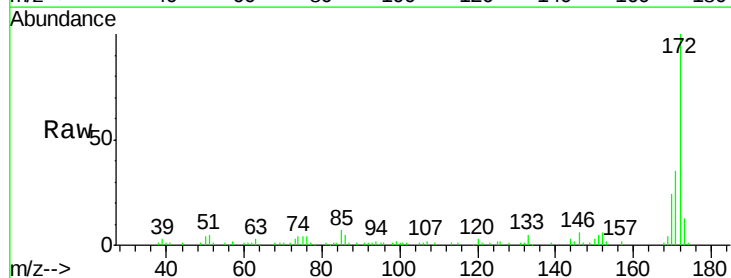
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 7272
 Ion Ratio Lower Upper
 330 100
 332 101.7 77.0 115.6
 141 57.9 29.9 44.9#



#44
 2-Fluorobiphenyl
 Concen: 4.66 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF102946.D
 Acq: 13 Feb 2018 3:40

Tgt Ion:172 Resp: 75652
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.7 44.5
 170 24.2 19.6 29.4

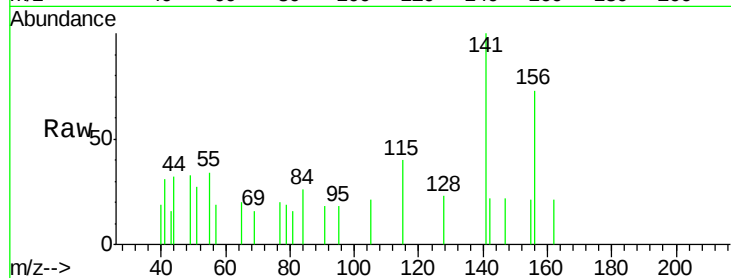




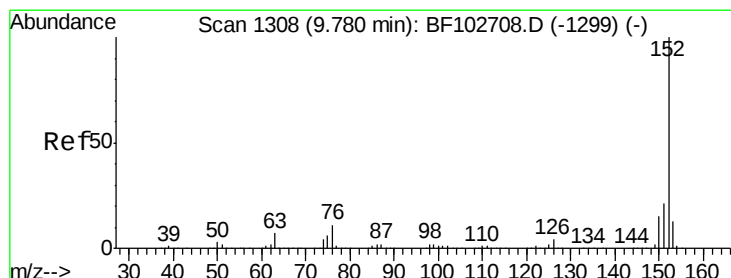
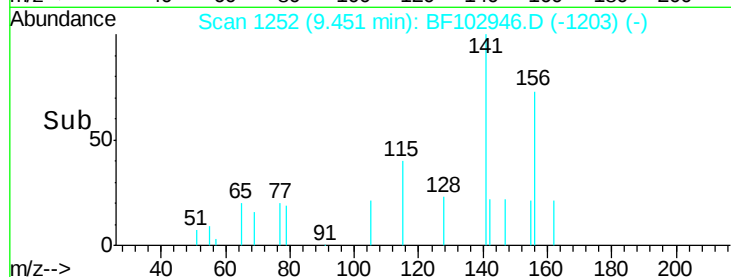
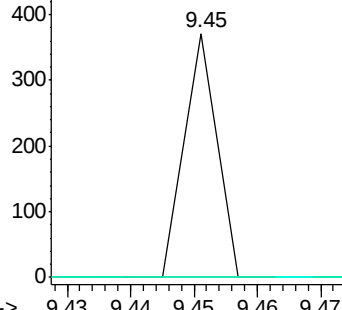
#47
2-Nitroaniline
Concen: 3.49 ng
RT: 9.45 min Scan# 1252
Delta R.T. -0.01 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
65	100		
92	0.0	55.8	83.6#
138	0.0	91.2	136.8#

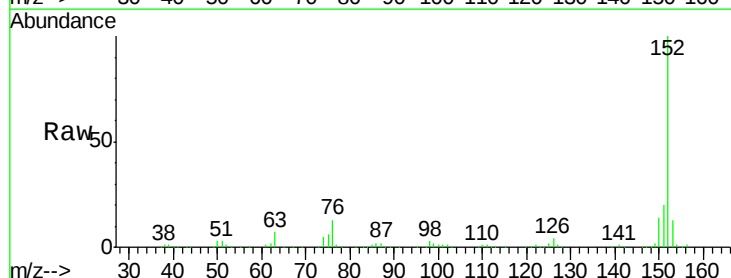


Abundance Ion 65.00 (64.70 to 65.70): BF1
Ion 92.00 (91.70 to 92.70): BF1
Ion 138.00 (137.70 to 138.70): BF1

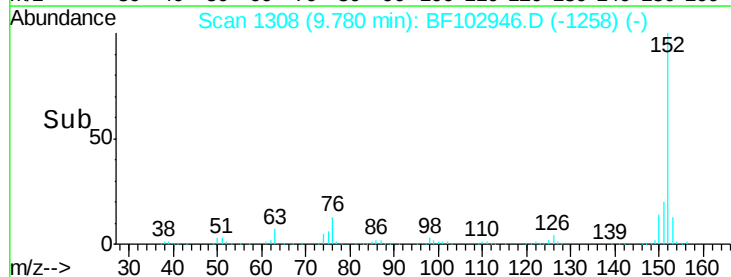
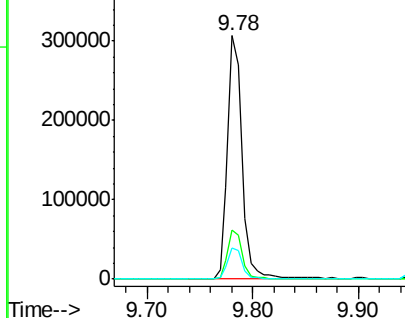


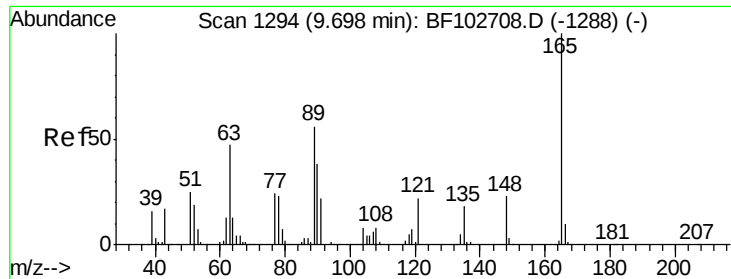
#48
Acenaphthylene
Concen: 10.73 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	12.8	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

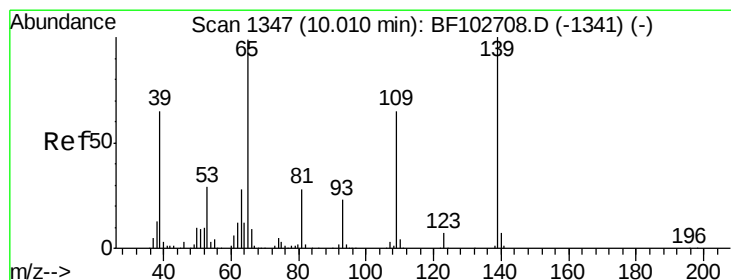
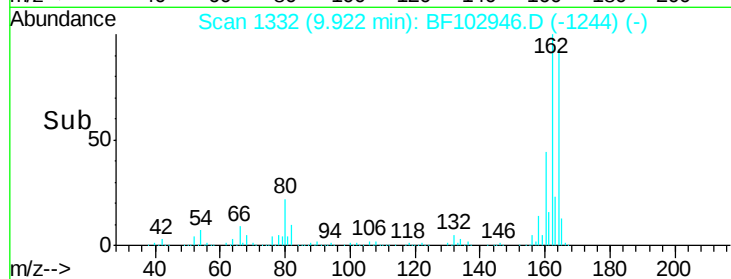
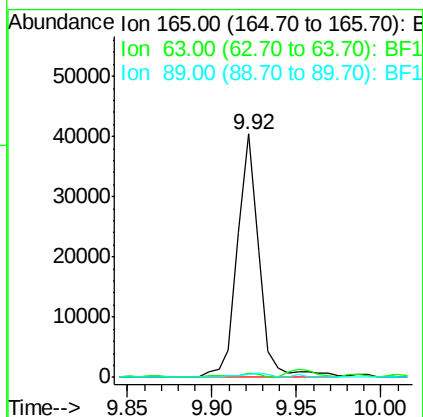
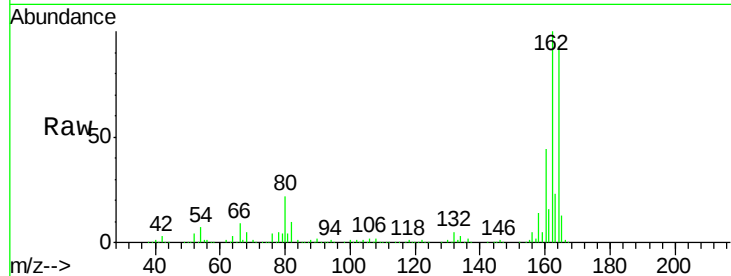




#50
 2,6-Dinitrotoluene
 Concen: 9.04 ng
 RT: 9.92 min Scan# 1332
 Delta R.T. 0.22 min
 Lab File: BF102946.D
 Acq: 13 Feb 2018 3:40

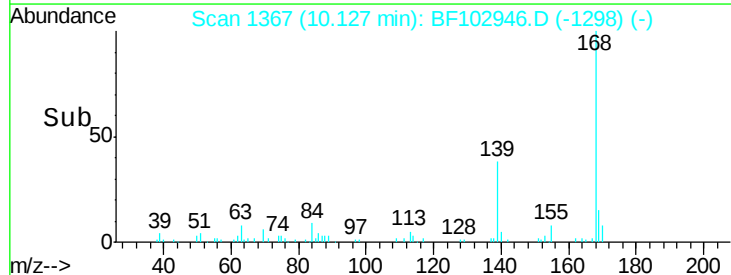
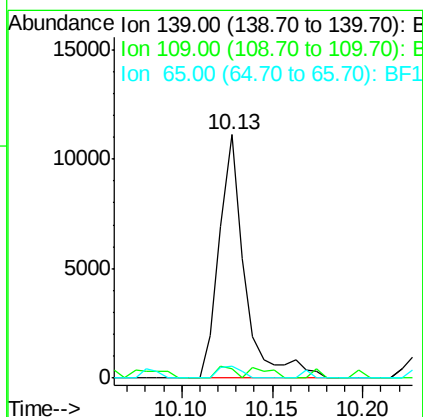
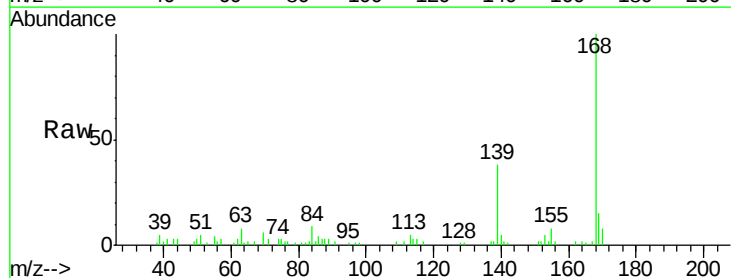
Instrument :
 BNA_F
 ClientSampled :

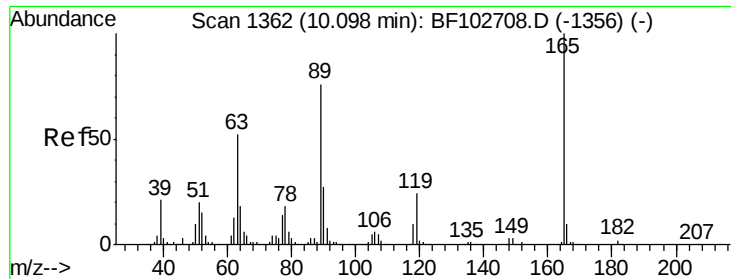
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	44.7	67.1#
89	1.5	44.0	66.0#



#55
 4-Nitrophenol
 Concen: 6.59 ng
 RT: 10.13 min Scan# 1367
 Delta R.T. 0.11 min
 Lab File: BF102946.D
 Acq: 13 Feb 2018 3:40

Tgt Ion	Ratio	Lower	Upper
139	100		
109	3.9	48.4	88.4#
65	4.7	72.6	112.6#

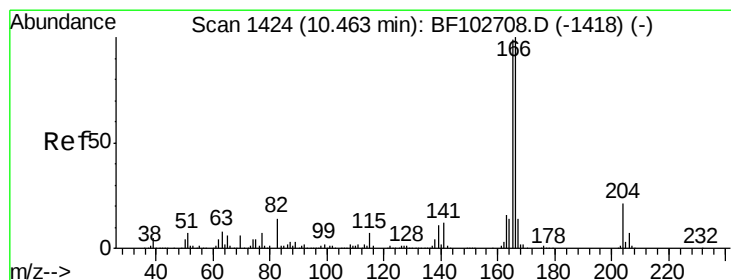
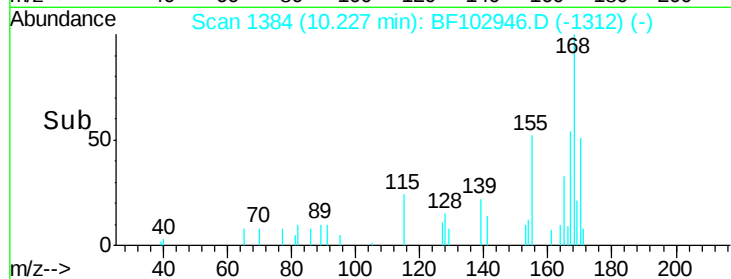
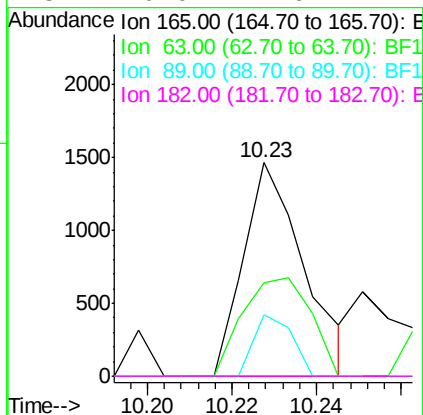
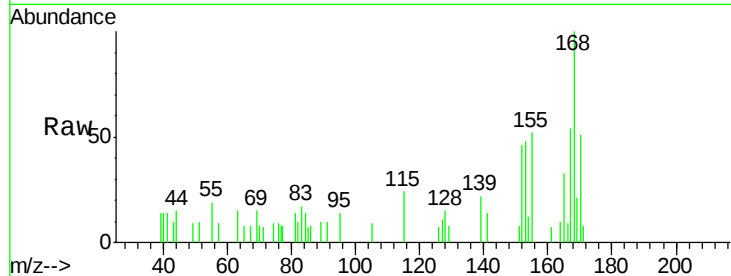




#56
2,4-Dinitrotoluene
Concen: 3.33 ng
RT: 10.23 min Scan# 1384
Delta R.T. 0.12 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

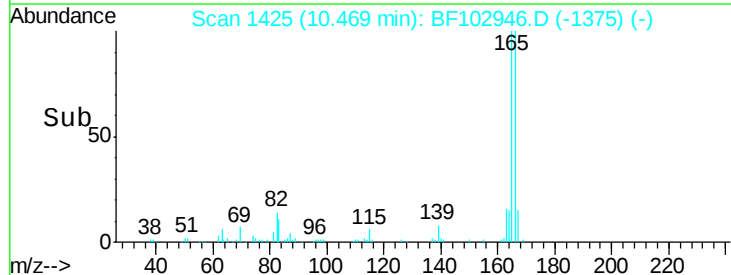
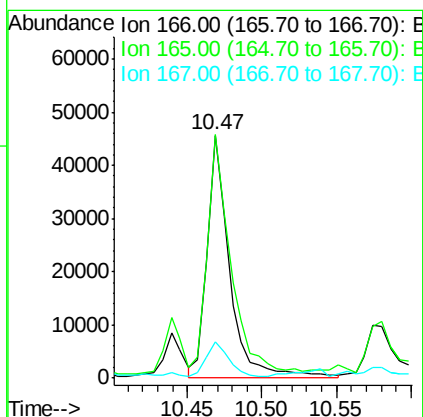
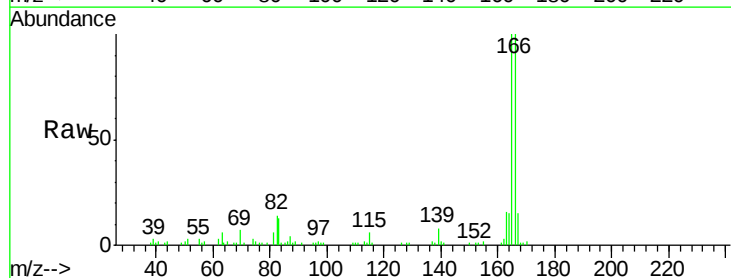
Instrument :
BNA_F
ClientSampleId :

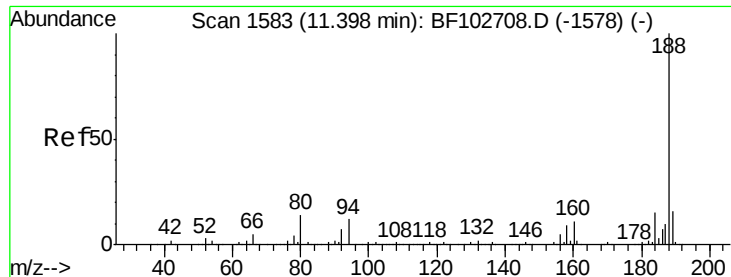
Tot Ion:	165	Resp:	1459
Ion	Ratio	Lower	Upper
165	100		
63	43.8	36.4	54.6
89	28.7	57.8	86.6#
182	0.0	1.6	2.4#



#57
Fluorene
Concen: 2.82 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

Tgt Ion:	166	Resp:	48070
Ion	Ratio	Lower	Upper
166	100		
165	100.4	79.8	119.8
167	14.8	10.6	16.0

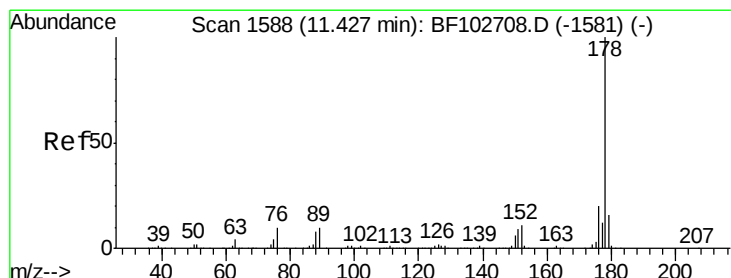
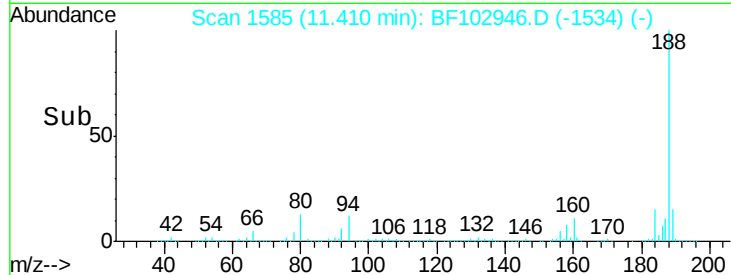
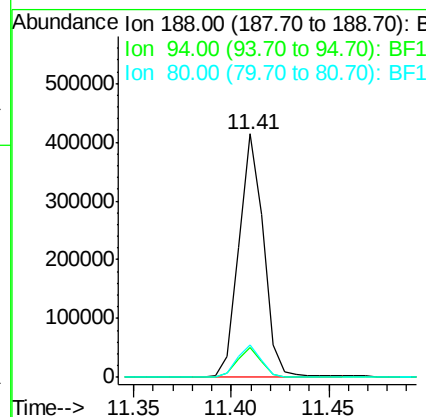
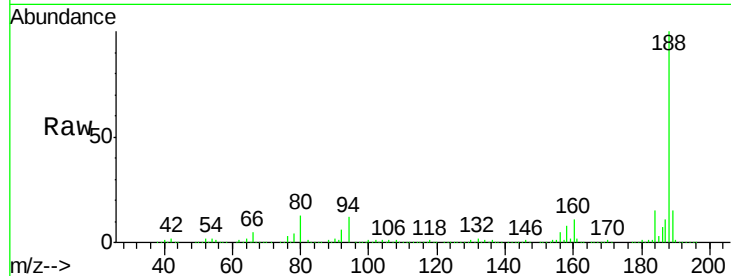




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: BF102946.D
 Acq: 13 Feb 2018 3:40

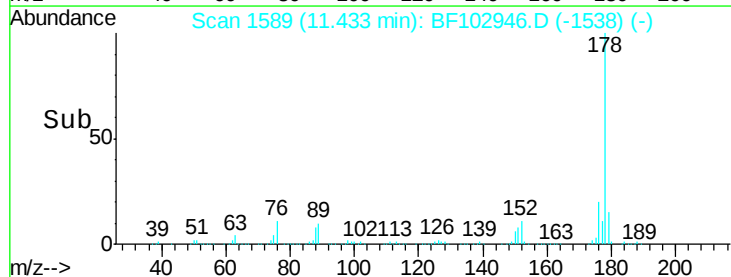
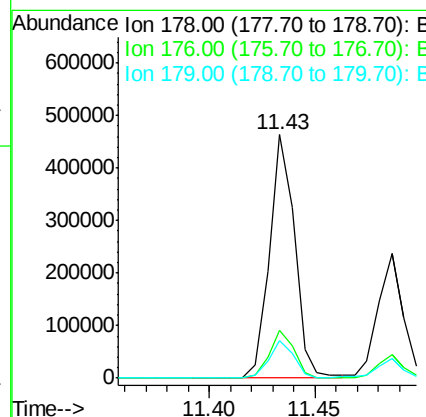
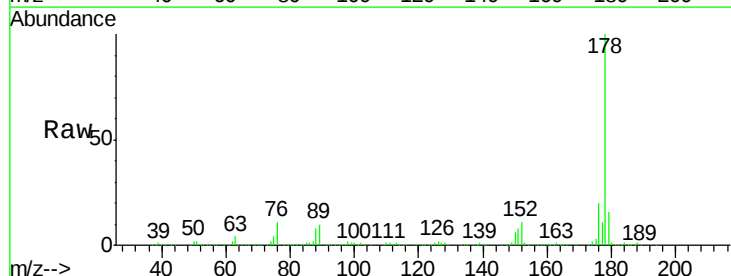
Instrument :
 BNA_F
 ClientSampleId :

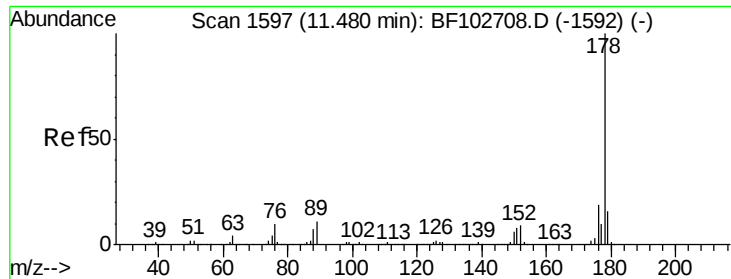
Tot Ion:188 Resp: 363378
 Ion Ratio Lower Upper
 188 100
 94 12.1 8.5 12.7
 80 13.1 9.2 13.8



#70
 Phenanthrene
 Concen: 19.05 ng
 RT: 11.43 min Scan# 1589
 Delta R.T. -0.00 min
 Lab File: BF102946.D
 Acq: 13 Feb 2018 3:40

Tgt Ion:178 Resp: 385587
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.8 23.8
 179 15.6 13.0 19.6





#71

Anthracene

Concen: 9.89 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.00 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

Instrument :

BNA_F

ClientSampleId :

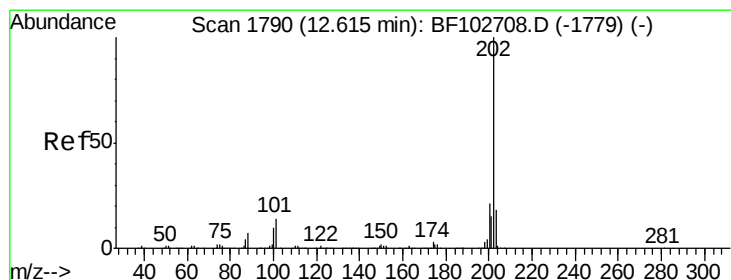
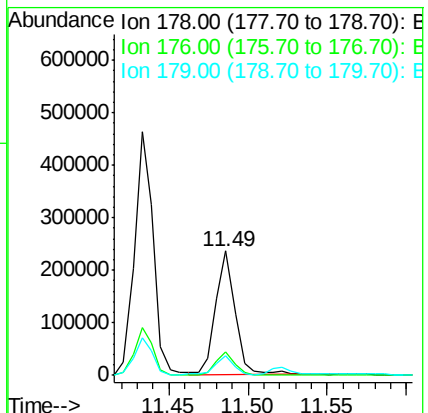
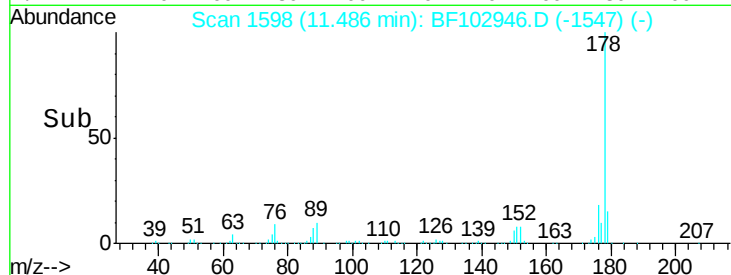
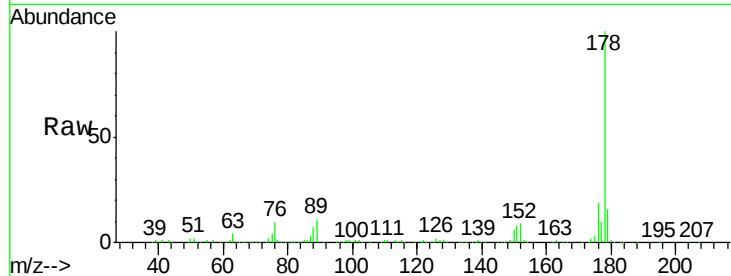
Tot Ion:178 Resp: 203570

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.2

179 15.6 12.6 19.0



#74

Fluoranthene

Concen: 42.86 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

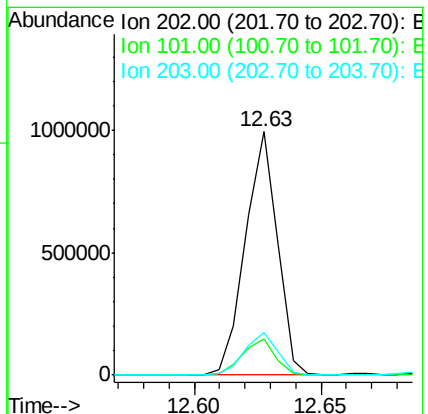
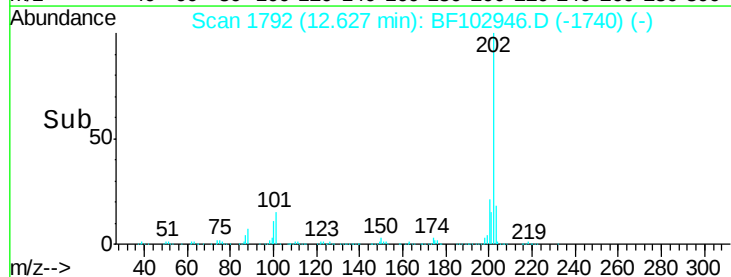
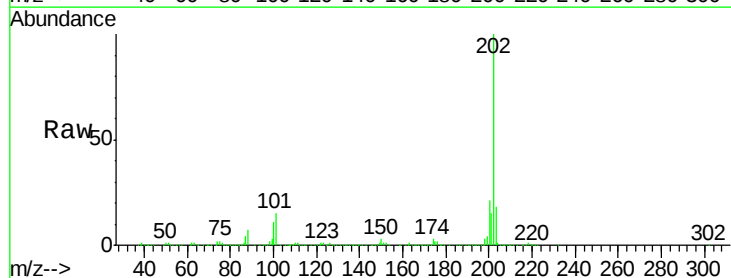
Tgt Ion:202 Resp: 872655

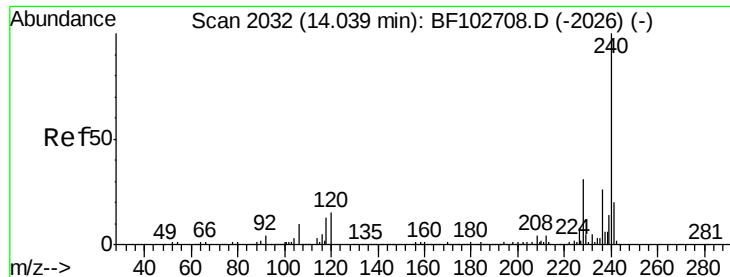
Ion Ratio Lower Upper

202 100

101 15.1 0.0 34.1

203 17.6 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.06 min Scan# 2035

Delta R.T. 0.01 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

Instrument :

BNA_F

ClientSampleId :

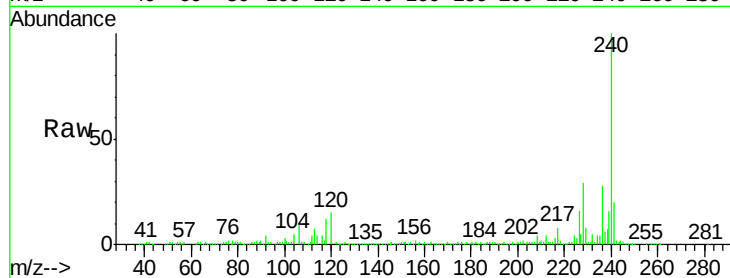
Tot Ion:240 Resp: 282887

Ion Ratio Lower Upper

240 100

120 14.5 9.5 14.3#

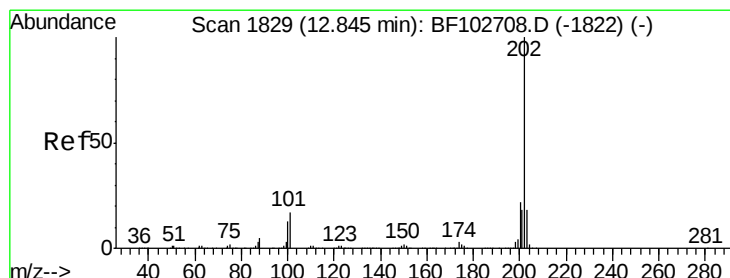
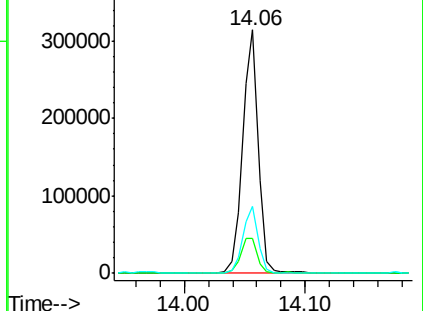
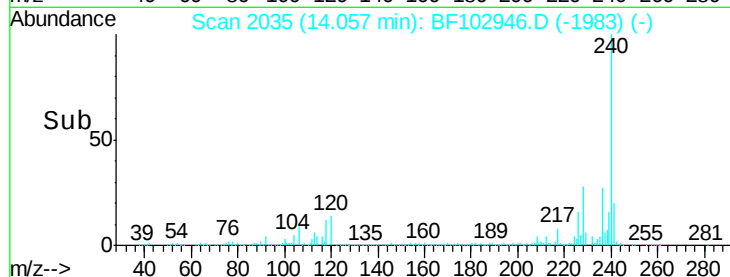
236 27.6 20.7 31.1



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: 37.94 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.01 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

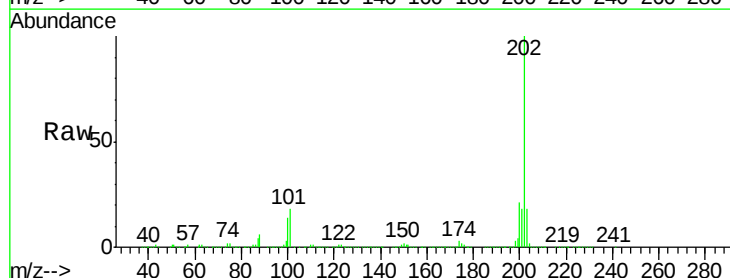
Tgt Ion:202 Resp: 841669

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

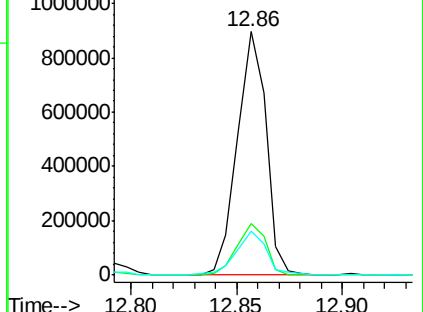
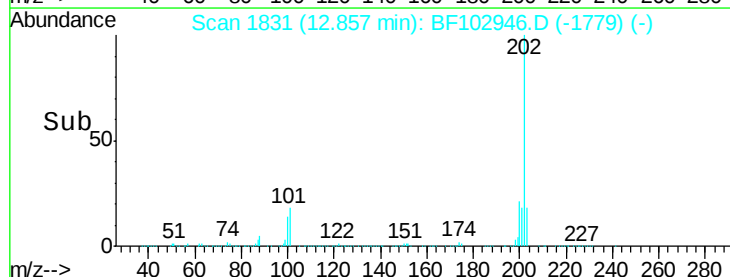
203 18.0 14.3 21.5

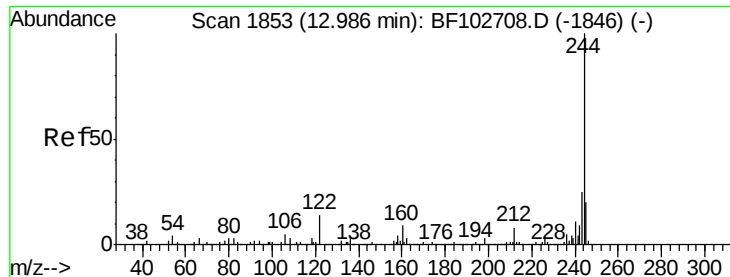


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 3.93 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

Instrument :

BNA_F

ClientSampleId :

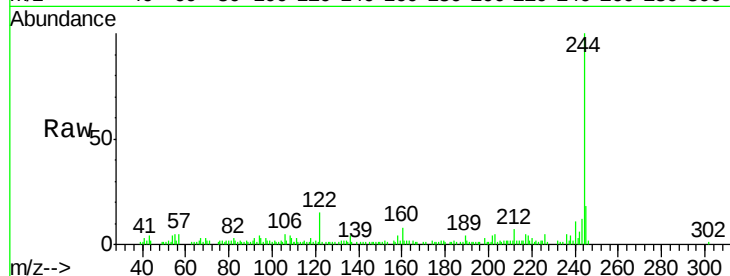
Tot Ion:244 Resp: 46944

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

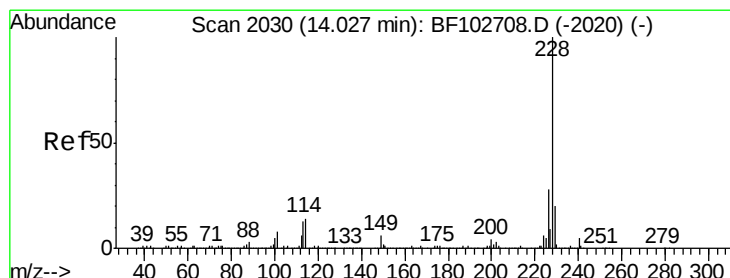
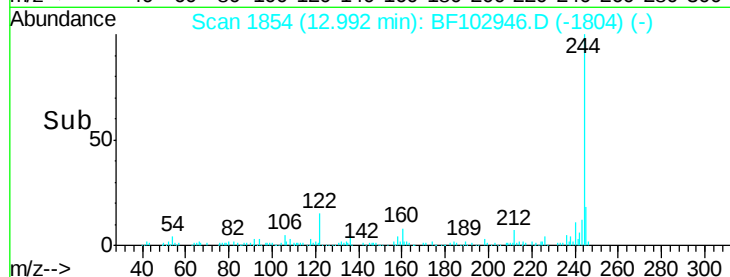
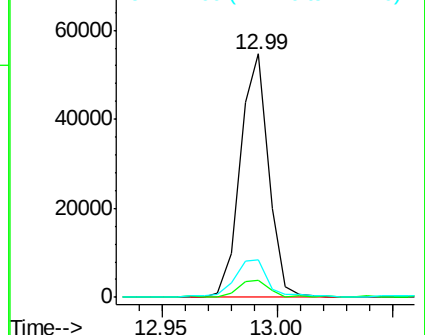
122 15.4 11.0 16.4



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



#80

Benzo(a)anthracene

Concen: 26.71 ng

RT: 14.08 min Scan# 2039

Delta R.T. 0.04 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

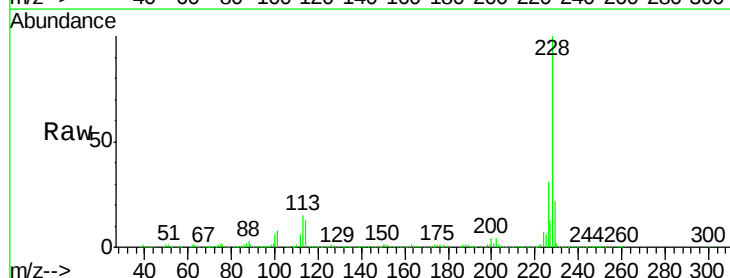
Tgt Ion:228 Resp: 475130

Ion Ratio Lower Upper

228 100

226 30.9 22.6 33.8

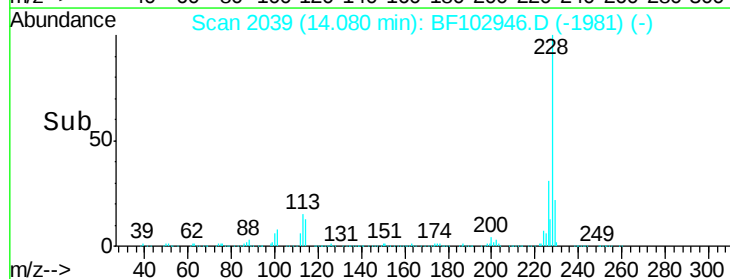
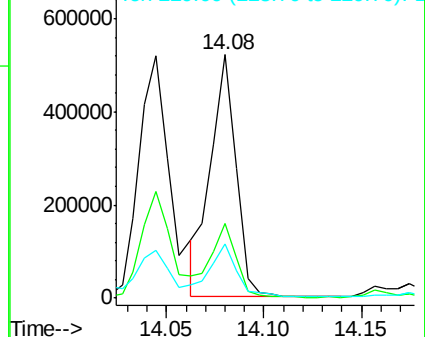
229 22.3 15.8 23.6

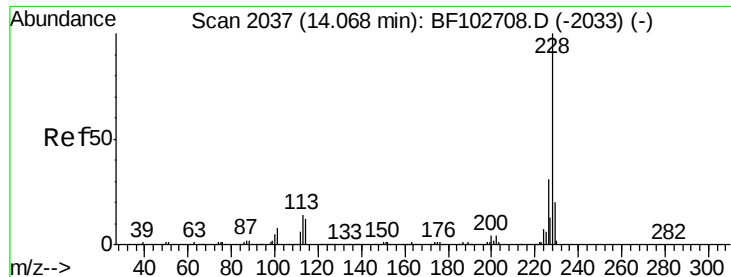


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 26.49 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.00 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

Instrument :

BNA_F

ClientSampleId :

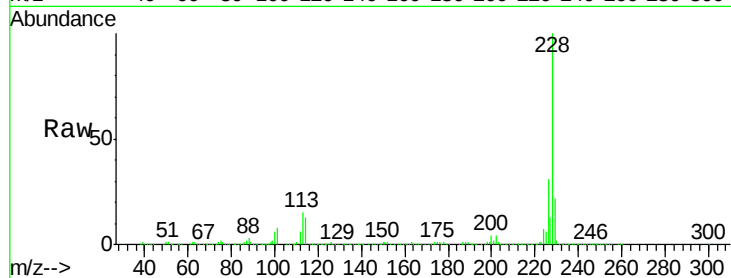
Tot Ion:228 Resp: 475130

Ion Ratio Lower Upper

228 100

226 30.9 25.0 37.6

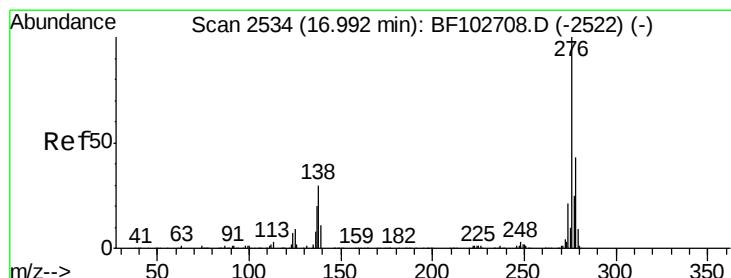
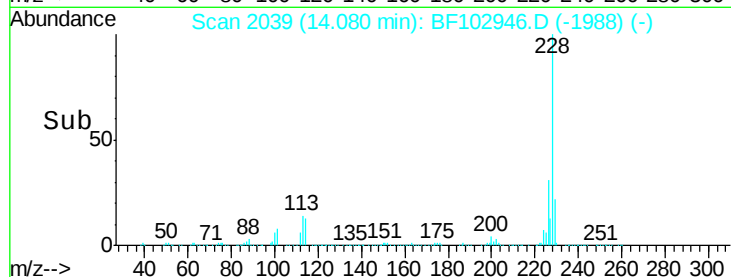
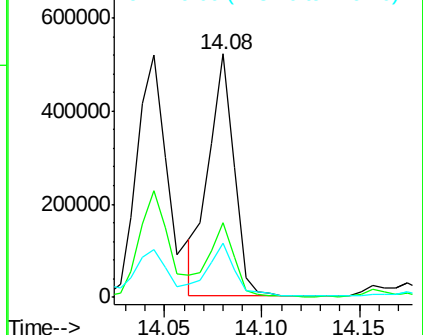
229 22.3 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 15.54 ng

RT: 17.04 min Scan# 2542

Delta R.T. 0.02 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

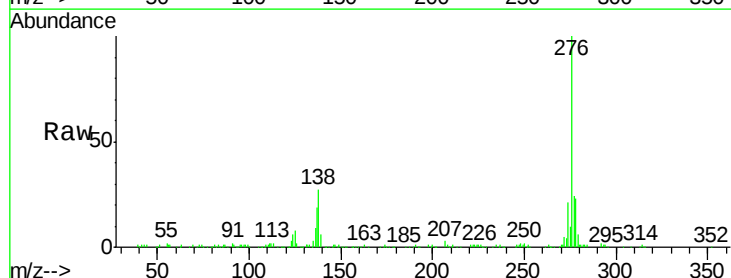
Tgt Ion:276 Resp: 231130

Ion Ratio Lower Upper

276 100

138 28.3 25.0 37.6

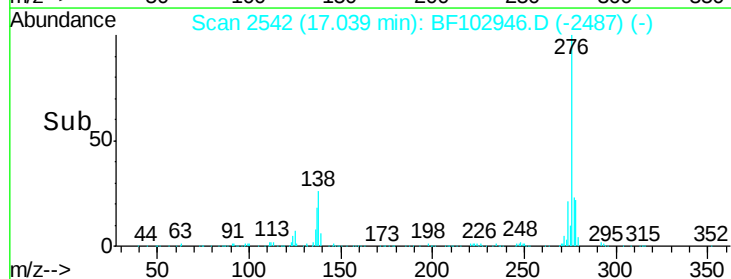
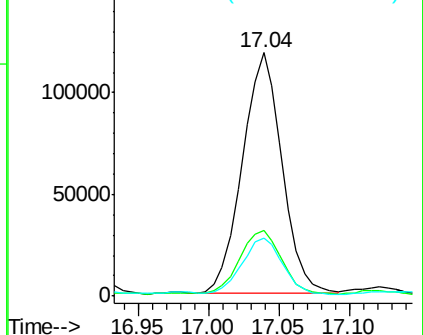
277 23.8 20.1 30.1

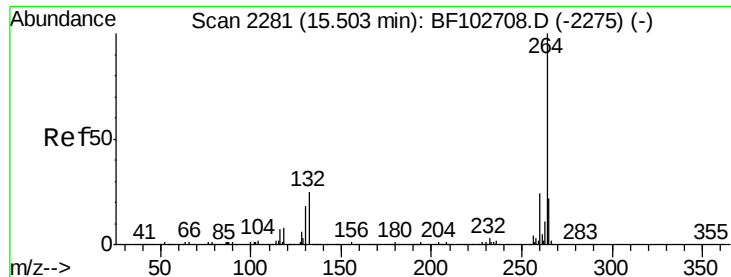


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

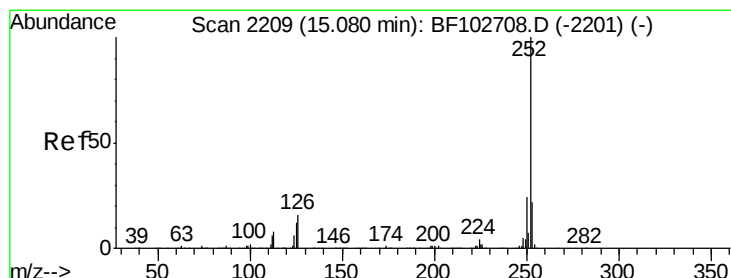
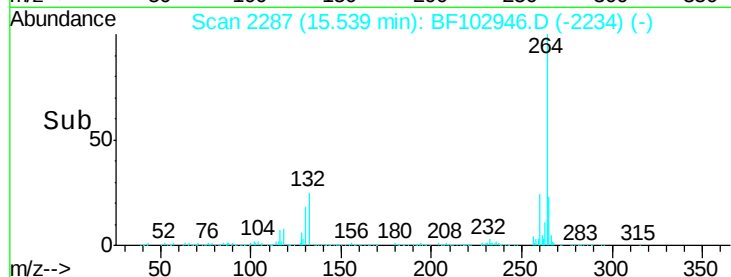
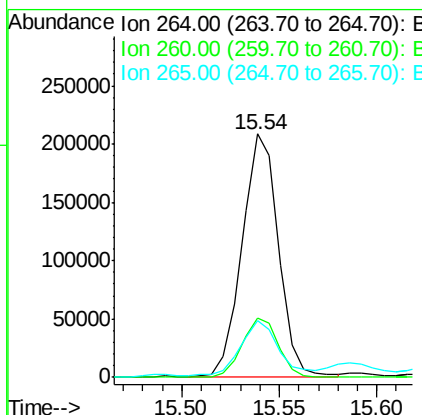
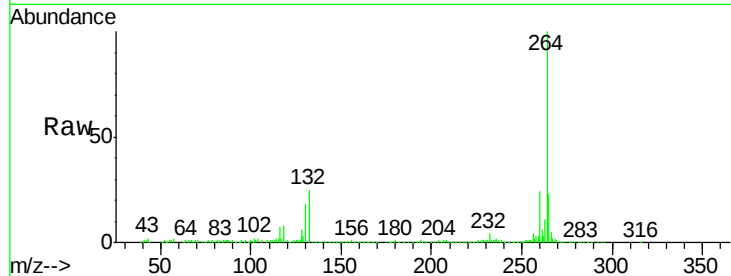




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

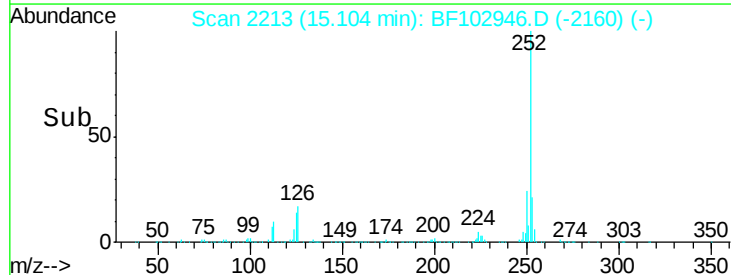
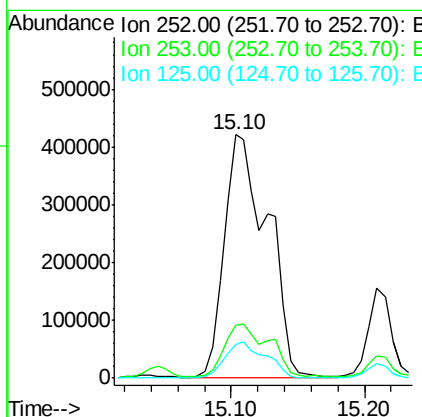
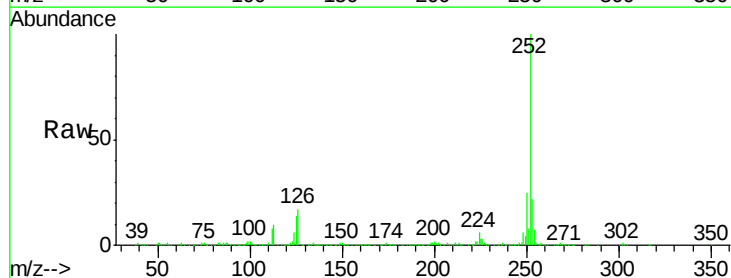
Instrument :
BNA_F
ClientSampleId :

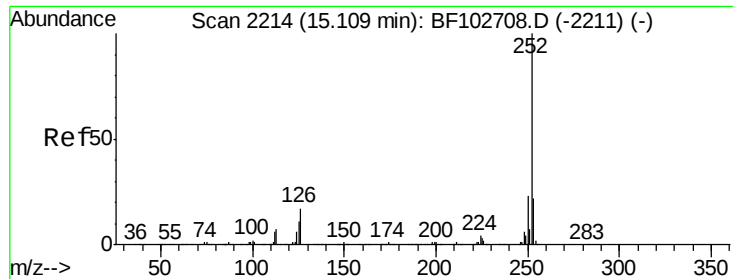
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	23.1	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 54.63 ng
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.6
125	13.9	9.0	13.6#

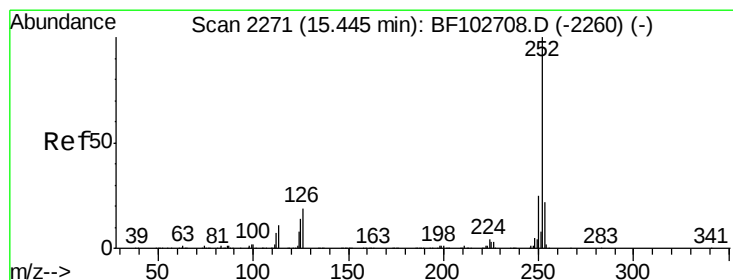
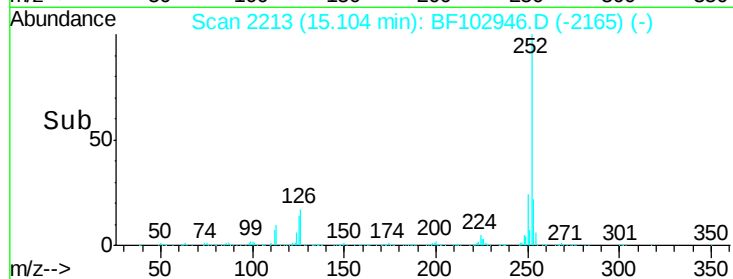
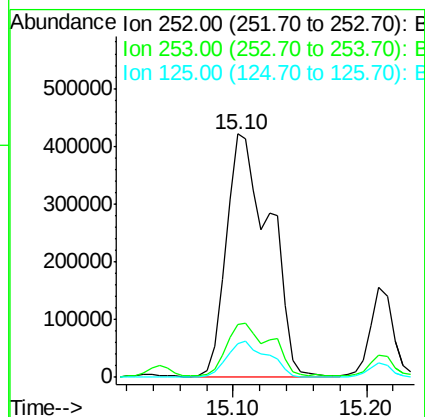
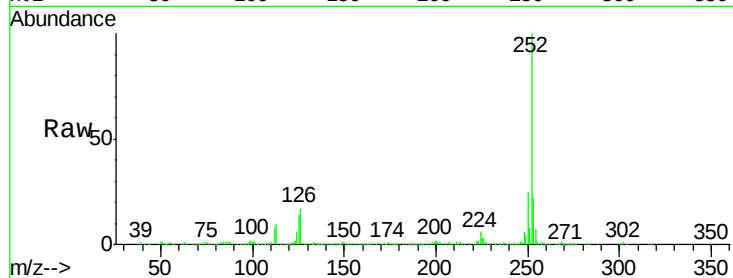




#88
Benzo(k)fluoranthene
Concen: 57.18 ng
RT: 15.10 min Scan# 2213
Delta R.T. -0.02 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

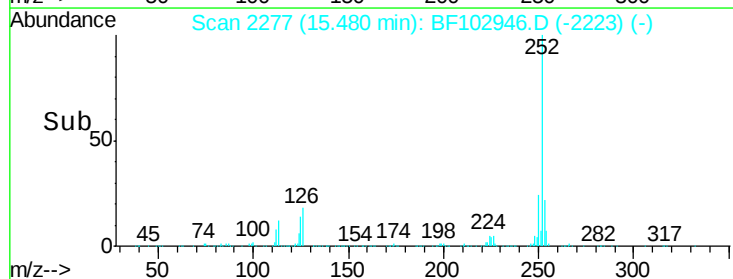
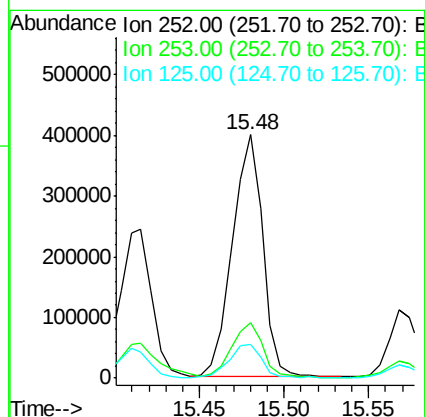
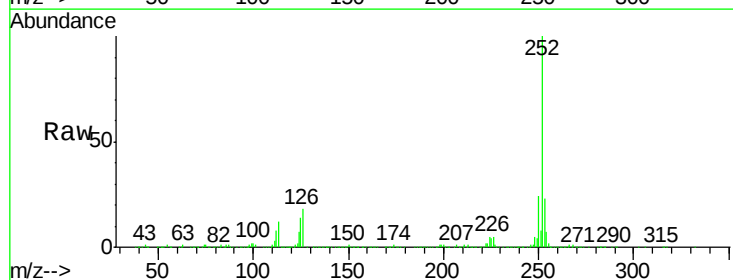
Instrument :
BNA_F
ClientSampleId :

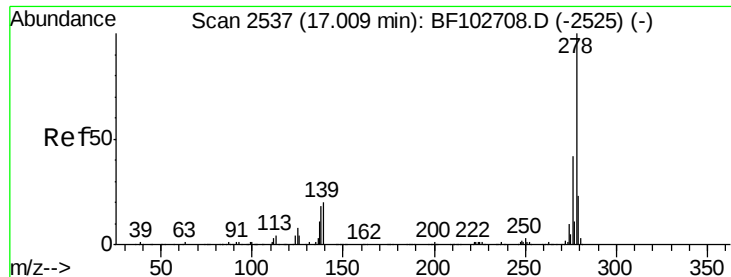
Tot Ion:252 Resp: 950216
Ion Ratio Lower Upper
252 100
253 22.0 17.9 26.9
125 13.9 10.2 15.2



#89
Benzo(a)pyrene
Concen: 32.07 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.02 min
Lab File: BF102946.D
Acq: 13 Feb 2018 3:40

Tgt Ion:252 Resp: 502022
Ion Ratio Lower Upper
252 100
253 22.5 17.1 25.7
125 13.8 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.11 ng

RT: 17.12 min Scan# 2555

Delta R.T. 0.08 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

Instrument :

BNA_F

ClientSampled :

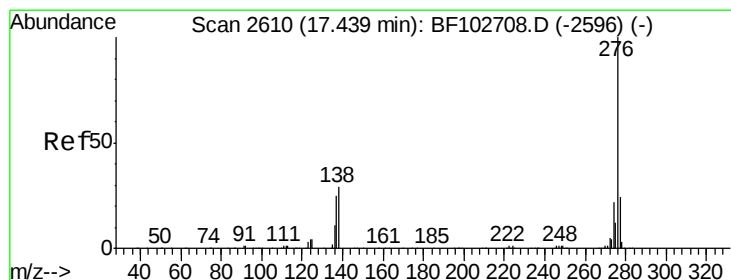
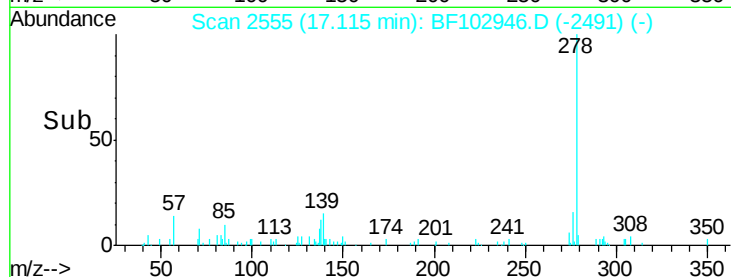
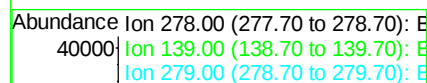
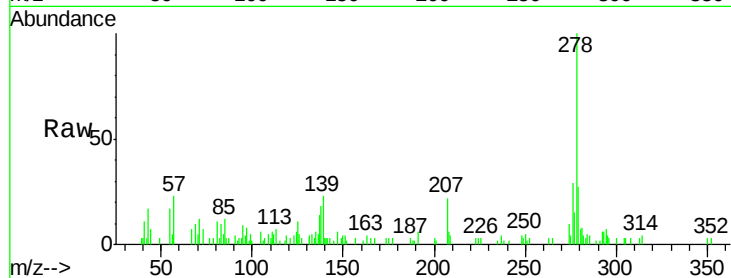
Tot Ion:278 Resp: 26809

Ion Ratio Lower Upper

278 100

139 22.7 15.9 23.9

279 27.4 19.0 28.4



#91

Benzo(g,h,i)perylene

Concen: 17.41 ng

RT: 17.50 min Scan# 2620

Delta R.T. 0.02 min

Lab File: BF102946.D

Acq: 13 Feb 2018 3:40

Tgt Ion:276 Resp: 216480

Ion Ratio Lower Upper

276 100

277 24.6 17.9 26.9

138 28.4 21.8 32.8

