

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101994.D
 Acq On : 10 Jan 2018 22:10
 Operator : SJ/JU
 Sample : J1076-11 50X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

Quant Time: Jan 11 01:57:16 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 09 15:20:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	219184	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	909172	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	394135	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	662251	20.00	ng	0.00
75) Chrysene-d12	13.87	240	390004	20.00	ng	0.00
86) Perylene-d12	15.29	264	377963	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	6985	0.45	ng	0.00
7) Phenol-d6	6.35	99	7997	0.43	ng	0.00
23) Nitrobenzene-d5	7.28	82	4474	0.29	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	1370	0.40	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	10414	0.41	ng	-0.01
78) Terphenyl-d14	12.83	244	9294	0.49	ng	0.00

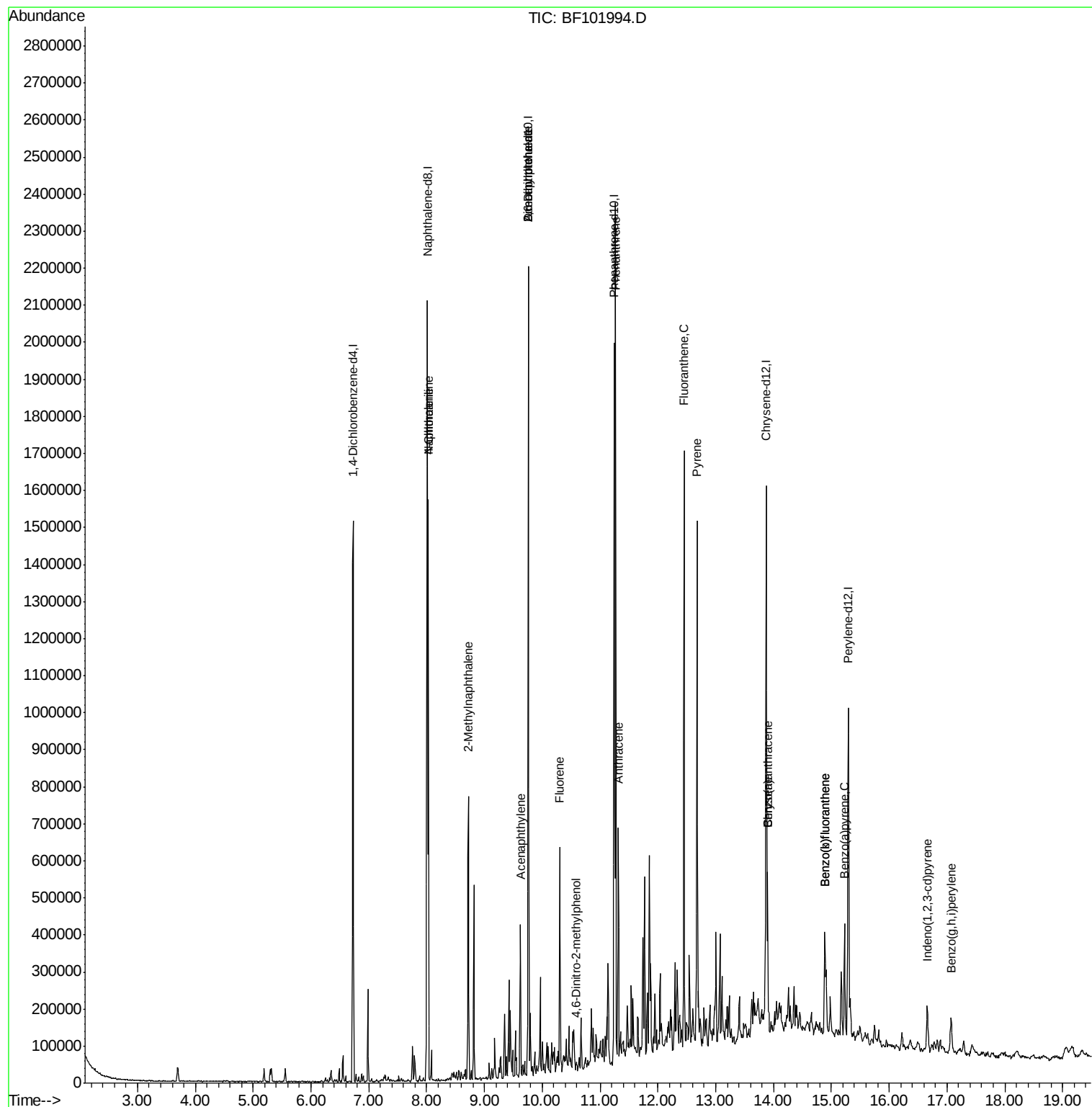
Target Compounds				Qvalue		
31) Naphthalene	8.03	128	623514	13.725	ng	99
33) 4-Chloroaniline	8.03	127	80866	4.170	ng	# 34
37) 2-Methylnaphthalene	8.72	142	188765	6.312	ng	99
48) Acenaphthylene	9.62	152	131242	3.061	ng	99
49) Dimethylphthalate	9.76	163	113342	3.585	ng	# 1
50) 2,6-Dinitrotoluene	9.76	165	53355	8.448	ng	# 26
57) Fluorene	10.30	166	149264	6.046	ng	98
64) 4,6-Dinitro-2-methylphenol	10.58	198	137	5.696	ng	# 23
70) Phenanthrene	11.27	178	756961	19.568	ng	99
71) Anthracene	11.32	178	210432	5.364	ng	100
74) Fluoranthene	12.45	202	568280	14.931	ng	98
77) Pyrene	12.68	202	525068	15.231	ng	99
80) Benzo(a)anthracene	13.90	228	143366	5.762	ng	94
82) Chrysene	13.90	228	143366	5.525	ng	96
85) Indeno(1,2,3-cd)pyrene	16.66	276	67506	3.575	ng	97
87) Benzo(b)fluoranthene	14.89	252	199963	8.114	ng	# 94
88) Benzo(k)fluoranthene	14.89	252	199963	8.411	ng	# 96
89) Benzo(a)pyrene	15.23	252	127252	5.738	ng	98
91) Benzo(a,h,i)perylene	17.07	276	64513	3.619	ng	92

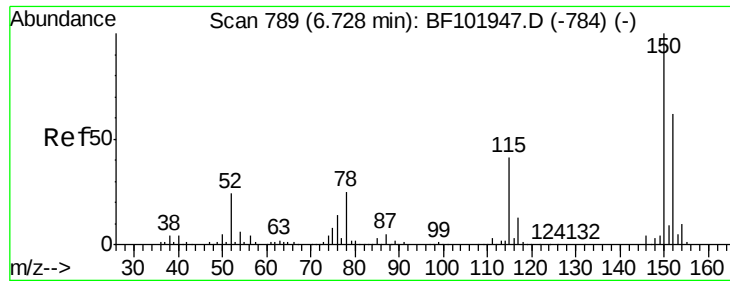
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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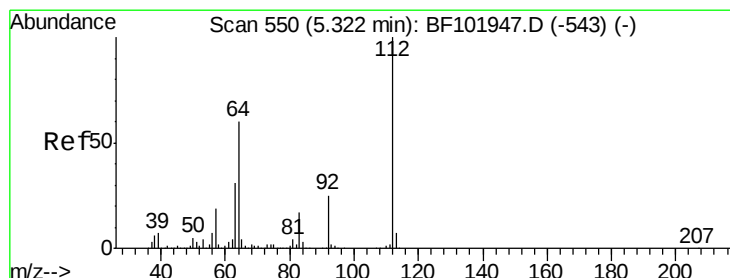
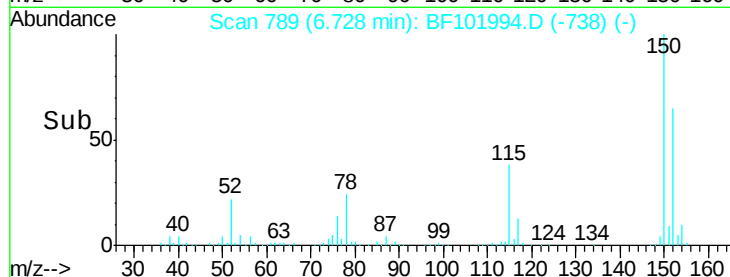
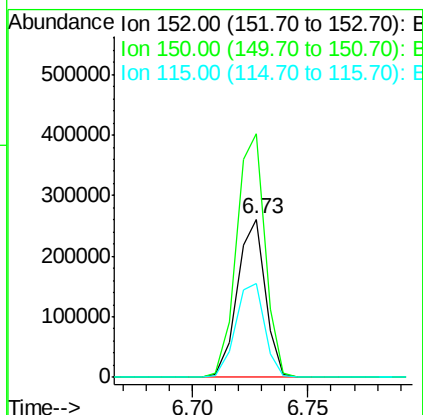
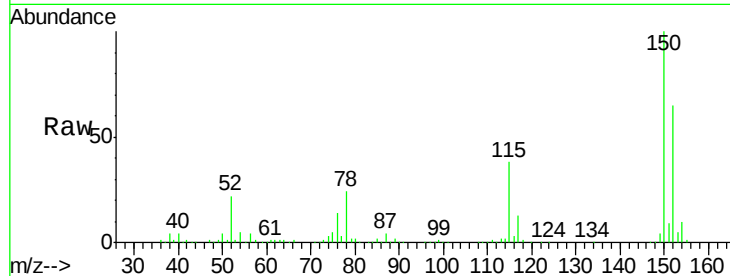


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.00 min
Lab File: BF101994.D
Acq: 10 Jan 2018 22:10

Instrument :
BNA_F
ClientSampleId :
WC-096613-01

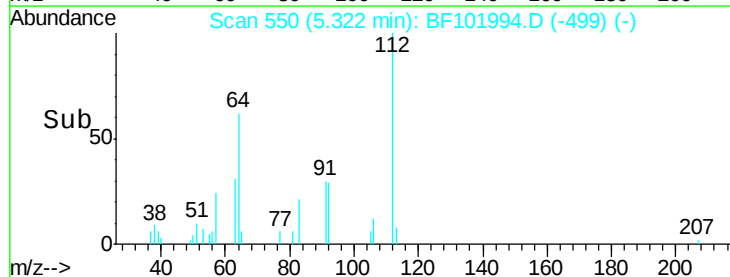
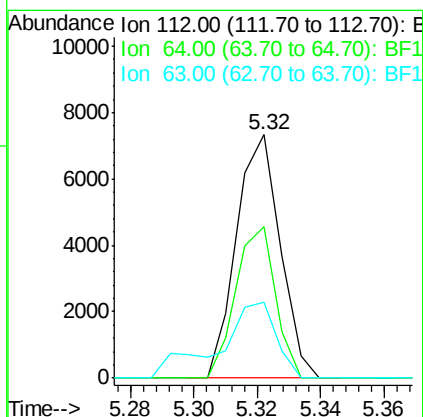
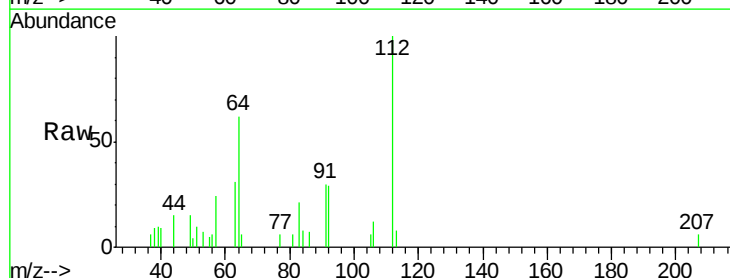
Tot Ion:152 Resp: 219184
Ion Ratio Lower Upper
152 100
150 154.1 124.6 186.8
115 59.1 50.1 75.1

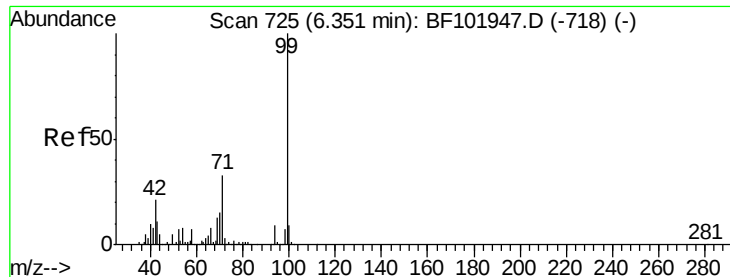


#5

2-Fluorophenol
Concen: 0.450 ng
RT: 5.32 min Scan# 550
Delta R.T. -0.00 min
Lab File: BF101994.D
Acq: 10 Jan 2018 22:10

Tgt Ion:112 Resp: 6985
Ion Ratio Lower Upper
112 100
64 62.0 47.9 71.9
63 31.0 23.7 35.5





#7

Phenol-d6

Concen: 0.432 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

Instrument :

BNA_F

ClientSampleId :

WC-096613-01

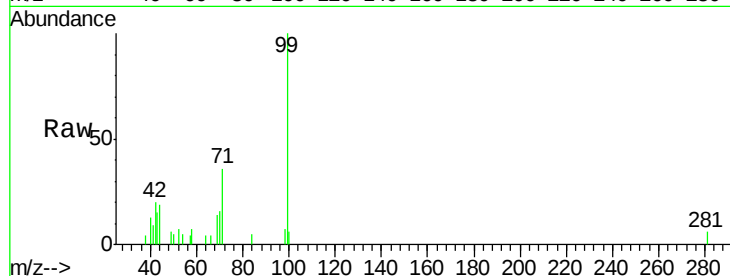
Tot Ion: 99 Resp: 7997

Ion Ratio Lower Upper

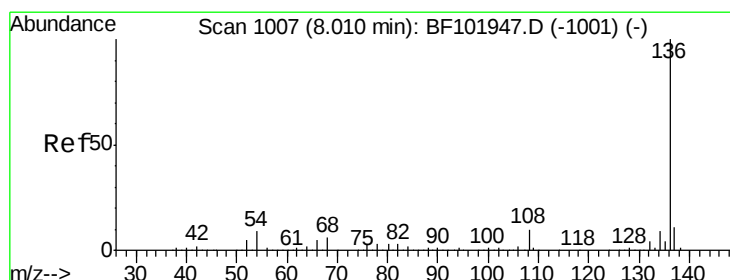
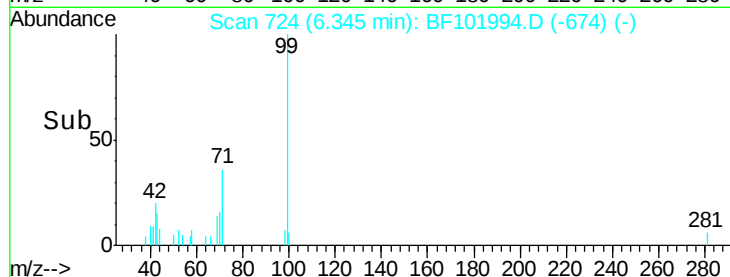
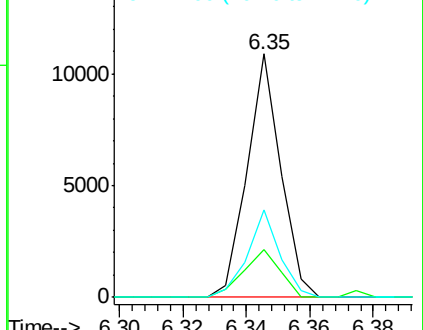
99 100

42 19.7 14.5 21.7

71 36.1 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: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

Tgt Ion: 136 Resp: 909172

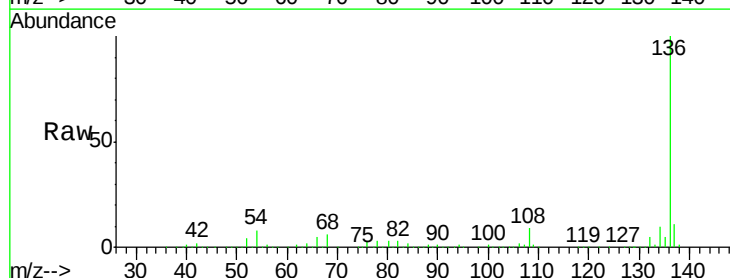
Ion Ratio Lower Upper

136 100

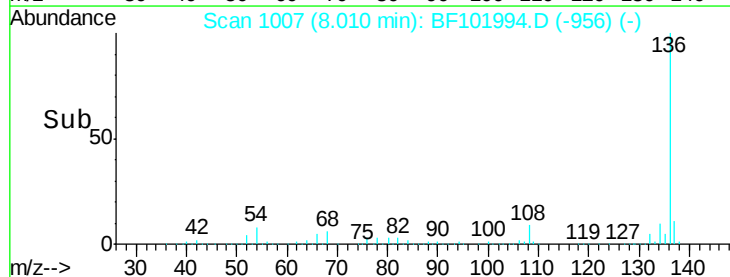
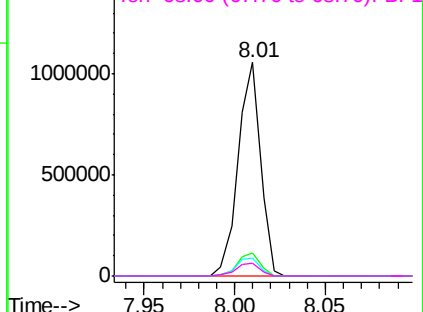
137 11.0 8.9 13.3

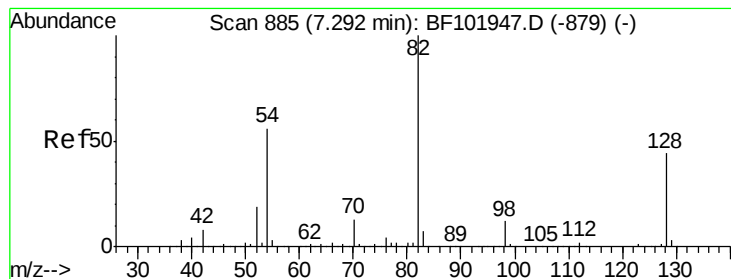
54 8.2 6.6 9.8

68 6.2 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: 0.289 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

Instrument :

BNA_F

ClientSampleId :

WC-096613-01

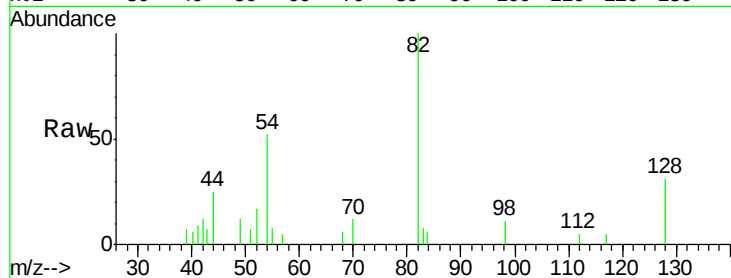
Tot Ion: 82 Resp: 4474

Ion Ratio Lower Upper

82 100

128 30.9 36.1 54.1#

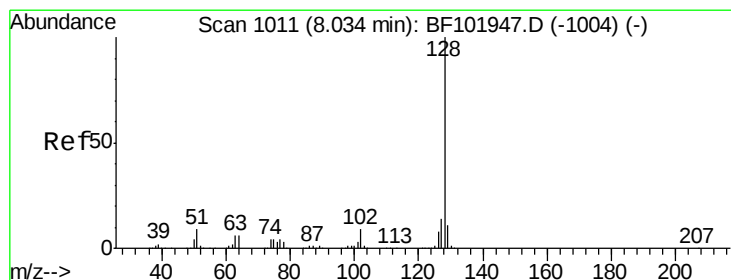
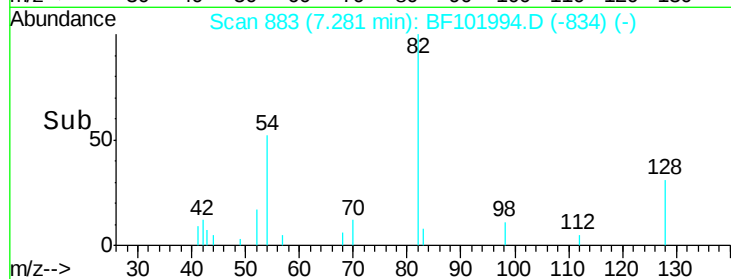
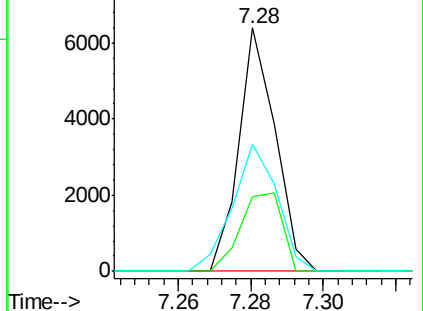
54 52.1 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#31

Naphthalene

Concen: 13.725 ng

RT: 8.03 min Scan# 1010

Delta R.T. -0.01 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

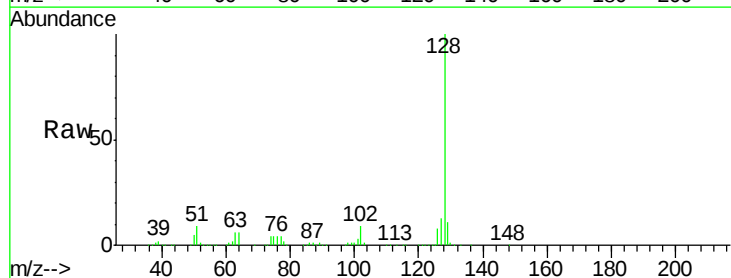
Tgt Ion: 128 Resp: 623514

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

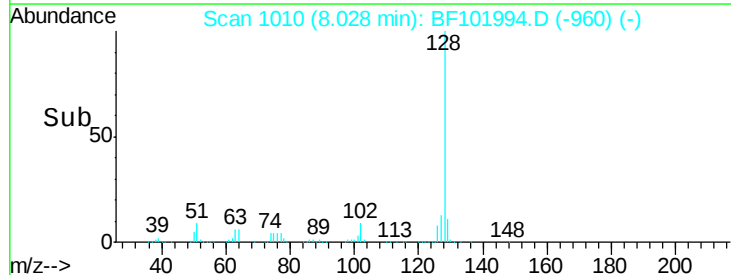
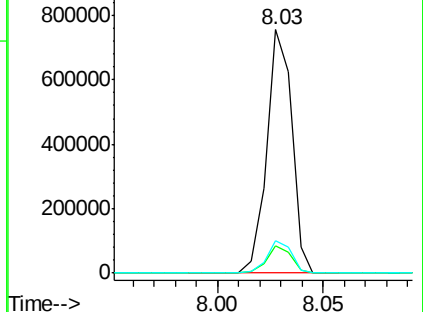
127 13.2 10.9 16.3

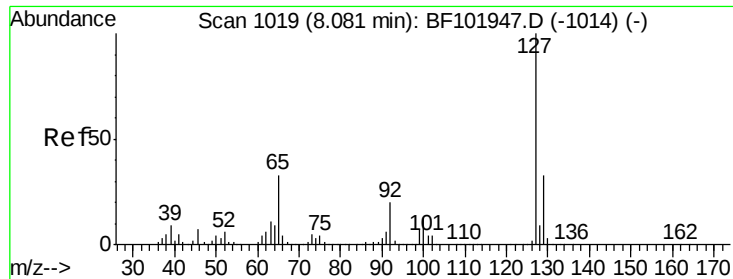


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

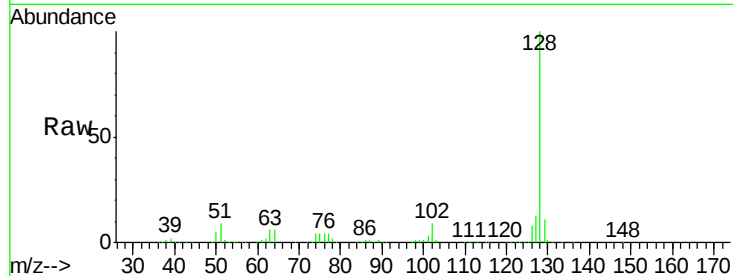




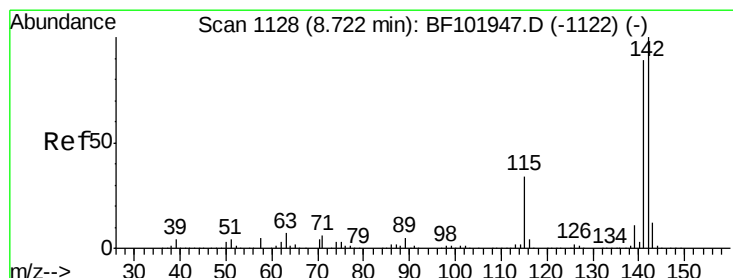
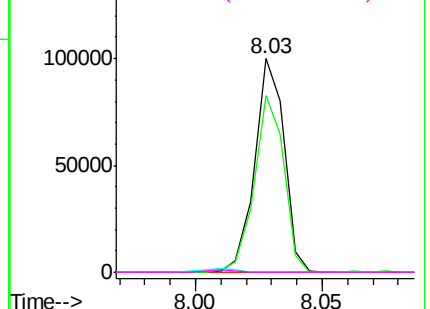
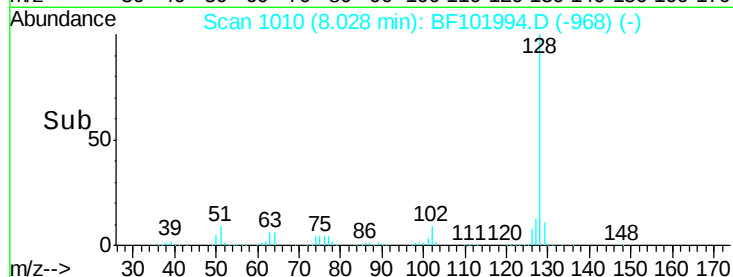
#33
4-Chloroaniline
Concen: 4.170 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.05 min
Lab File: BF101994.D
Acq: 10 Jan 2018 22:10

Instrument :
BNA_F
ClientSampleId :
WC-096613-01

Tot Ion:127 Resp: 80866
Ion Ratio Lower Upper
127 100
129 82.9 25.9 38.9#
65 0.0 25.0 37.4#
92 0.0 15.2 22.8#

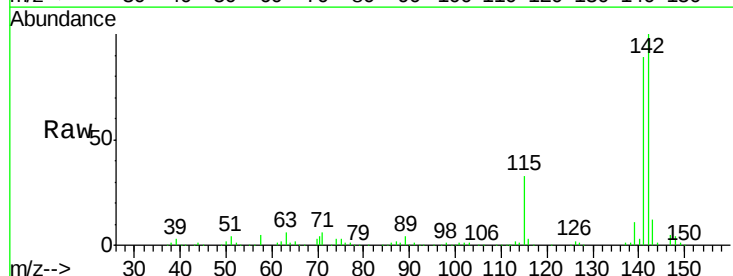


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF1
Ion 92.00 (91.70 to 92.70): BF1

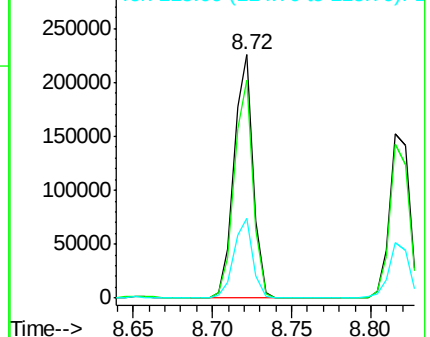
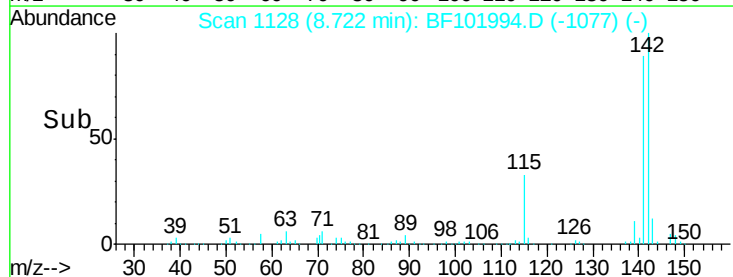


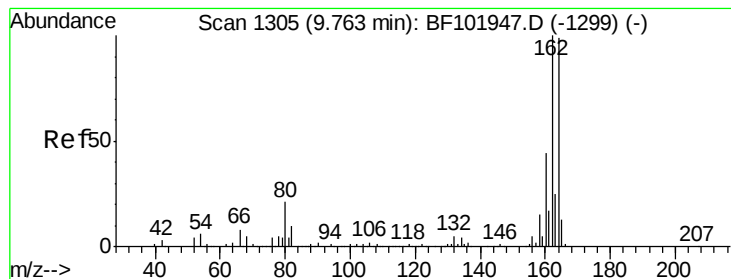
#37
2-Methylnaphthalene
Concen: 6.312 ng
RT: 8.72 min Scan# 1128
Delta R.T. -0.00 min
Lab File: BF101994.D
Acq: 10 Jan 2018 22:10

Tgt Ion:142 Resp: 188765
Ion Ratio Lower Upper
142 100
141 89.4 70.8 106.2
115 32.9 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: 9.76 min Scan# 1305

Delta R.T. -0.00 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

Instrument :

BNA_F

ClientSampleId :

WC-096613-01

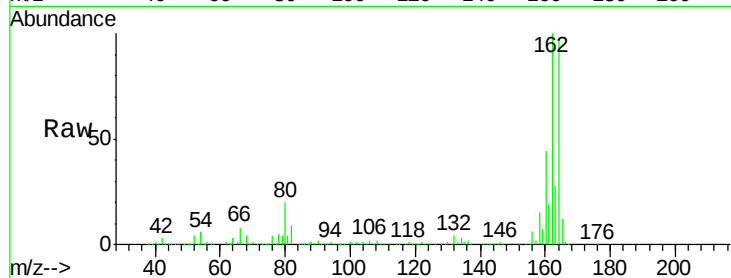
Tot Ion:164 Resp: 394135

Ion Ratio Lower Upper

164 100

162 103.3 86.1 129.1

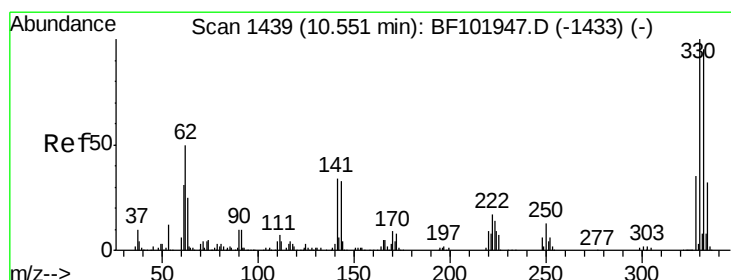
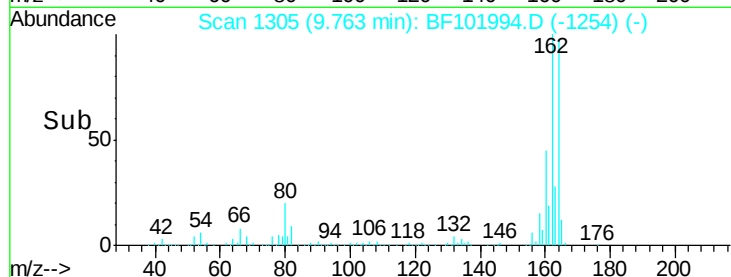
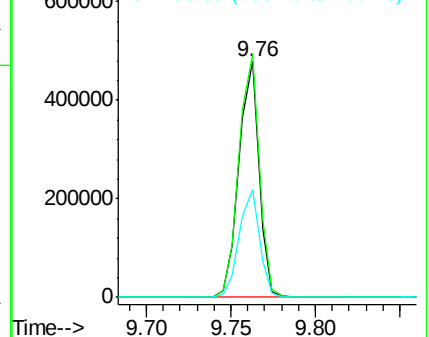
160 46.0 38.3 57.5



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: 0.398 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

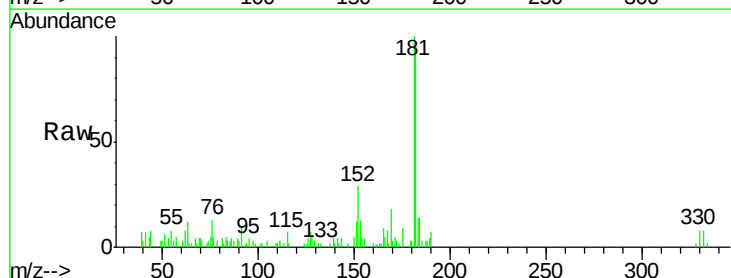
Tgt Ion:330 Resp: 1370

Ion Ratio Lower Upper

330 100

332 105.5 77.0 115.6

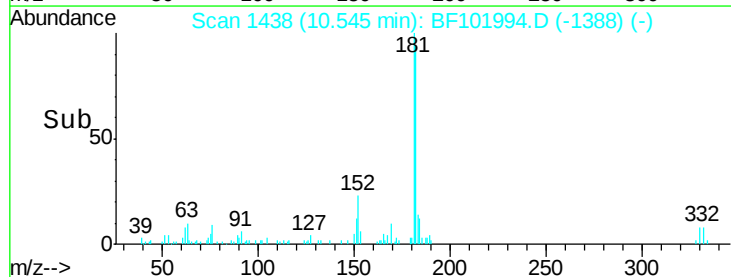
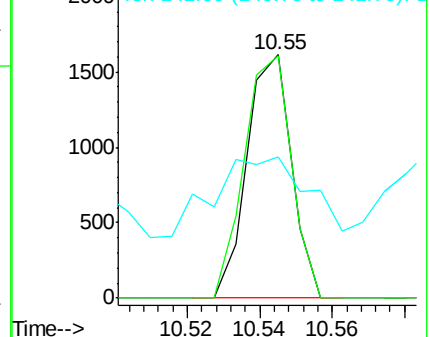
141 69.3 29.9 44.9#

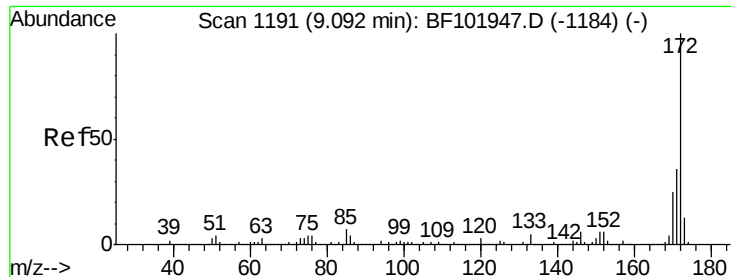


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

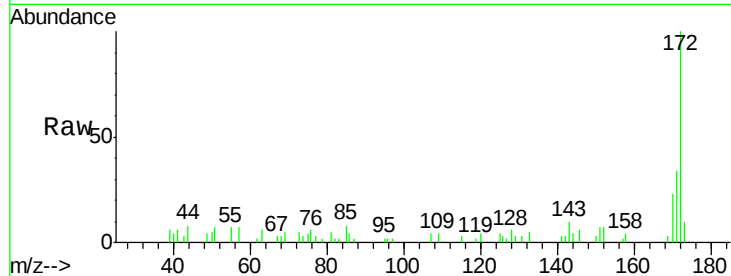




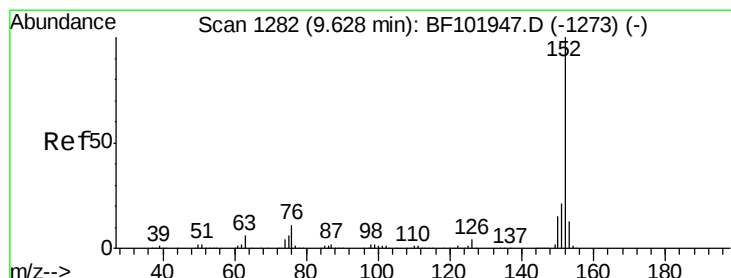
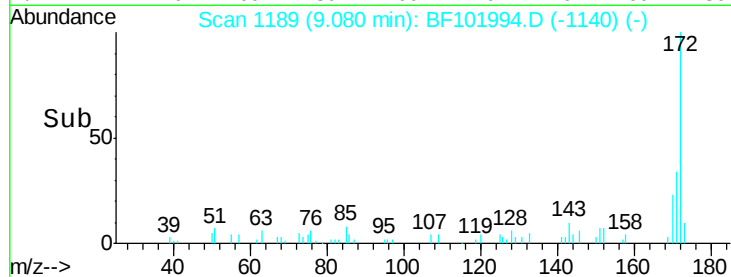
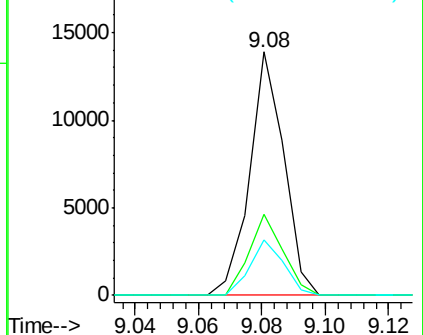
#44
 2-Fluorobiphenyl
 Concen: 0.413 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF101994.D
 Acq: 10 Jan 2018 22:10

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

Tot Ion:172 Resp: 10414
 Ion Ratio Lower Upper
 172 100
 171 33.5 29.7 44.5
 170 23.0 19.6 29.4

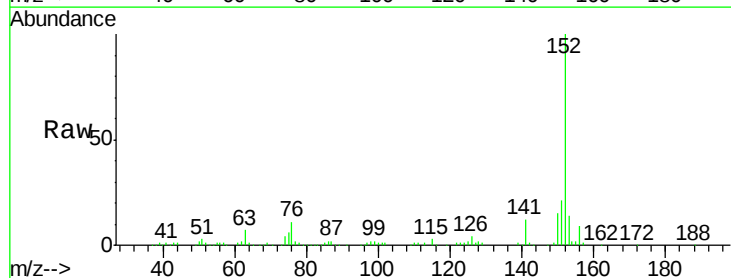


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

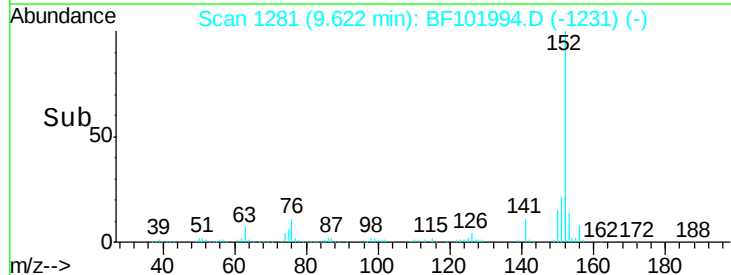
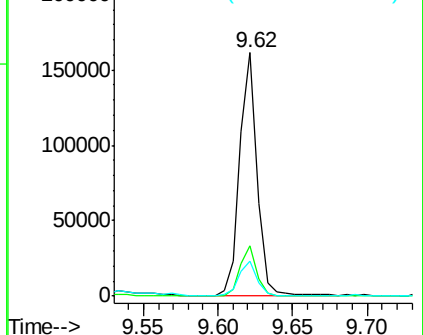


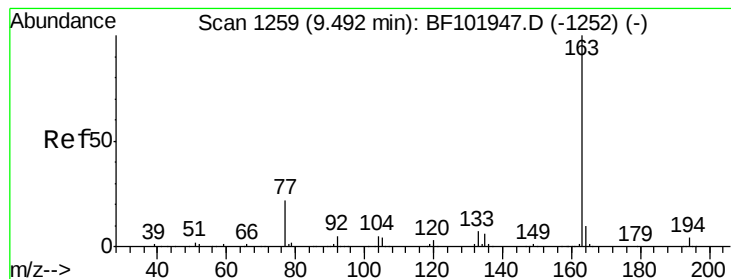
#48
 Acenaphthylene
 Concen: 3.061 ng
 RT: 9.62 min Scan# 1281
 Delta R.T. -0.01 min
 Lab File: BF101994.D
 Acq: 10 Jan 2018 22:10

Tgt Ion:152 Resp: 131242
 Ion Ratio Lower Upper
 152 100
 151 20.8 16.3 24.5
 153 14.3 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





#49

Dimethylphthalate

Concen: 3.585 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.27 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

Instrument :

BNA_F

ClientSampleId :

WC-096613-01

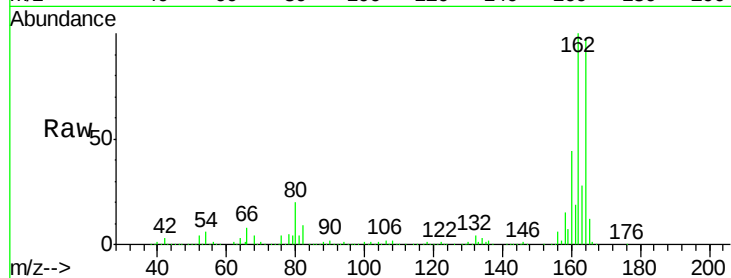
Tot Ion:163 Resp: 113342

Ion Ratio Lower Upper

163 100

194 0.0 2.7 4.1#

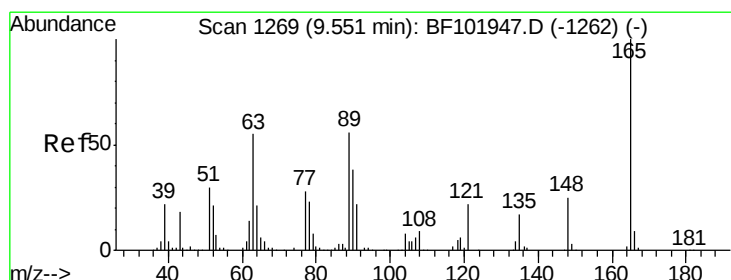
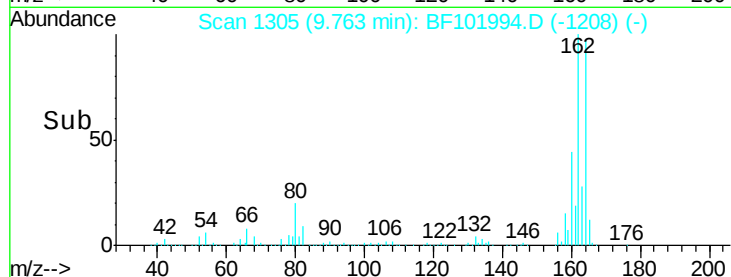
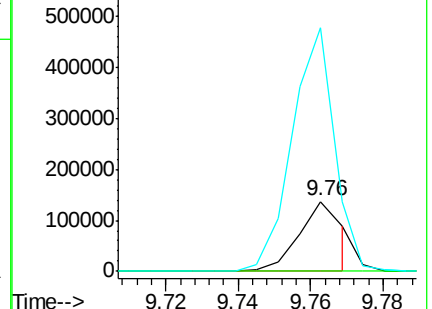
164 350.0 8.2 12.2#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 8.448 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.21 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

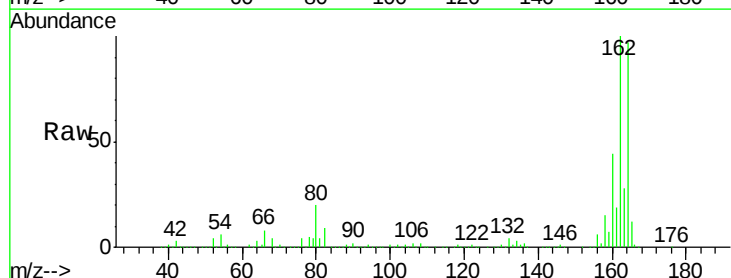
Tgt Ion:165 Resp: 53355

Ion Ratio Lower Upper

165 100

63 1.8 44.7 67.1#

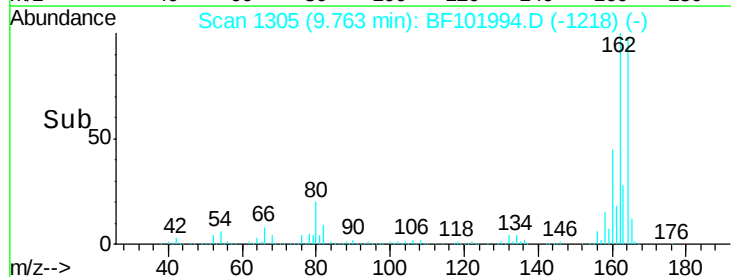
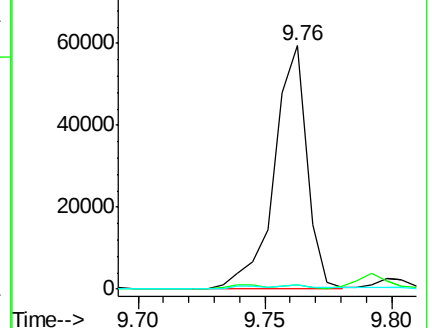
89 1.6 44.0 66.0#

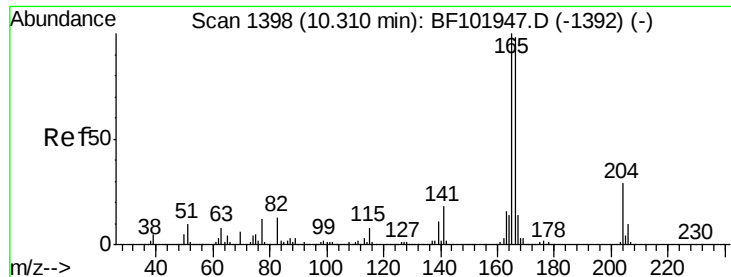


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

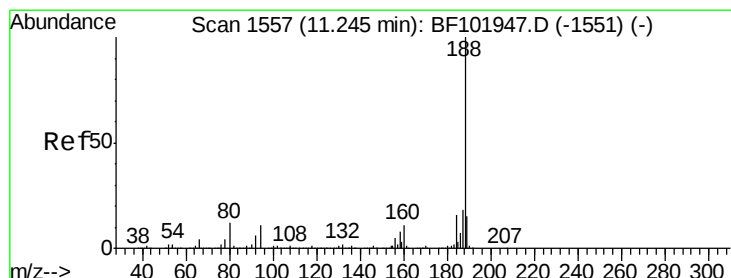
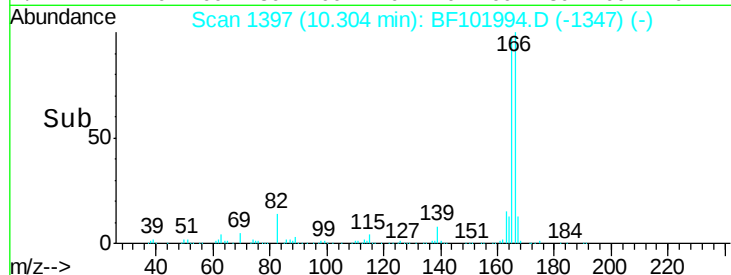
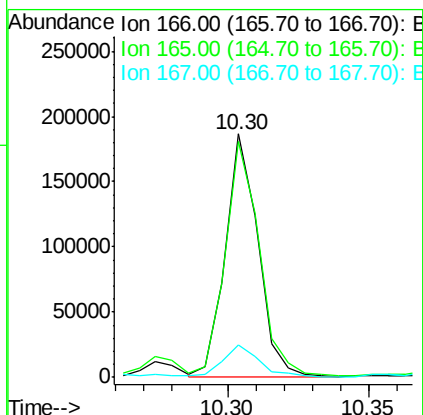
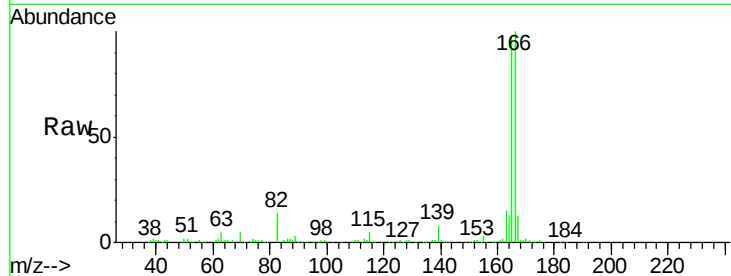




#57
Fluorene
 Concen: 6.046 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF101994.D
 Acq: 10 Jan 2018 22:10

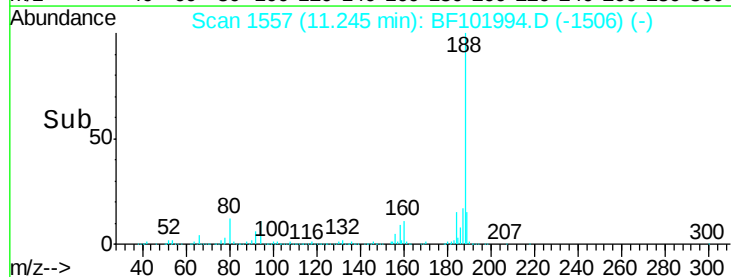
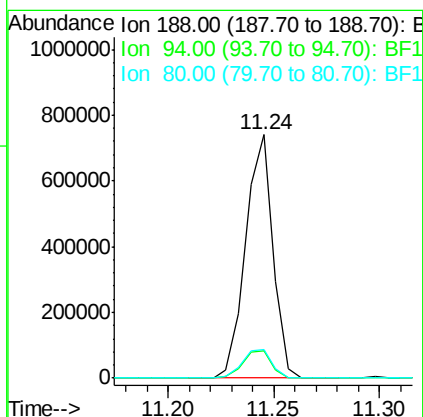
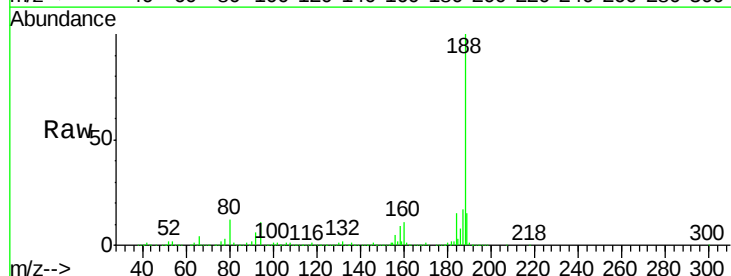
Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

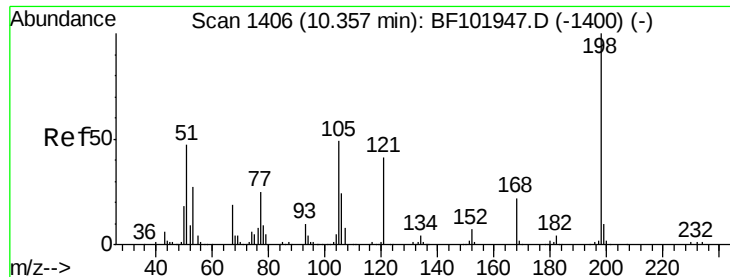
Tot Ion	Ratio	Lower	Upper
166	100		
165	97.2	79.8	119.8
167	13.2	10.6	16.0



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1557
 Delta R.T. -0.00 min
 Lab File: BF101994.D
 Acq: 10 Jan 2018 22:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.2	8.5	12.7
80	11.9	9.2	13.8

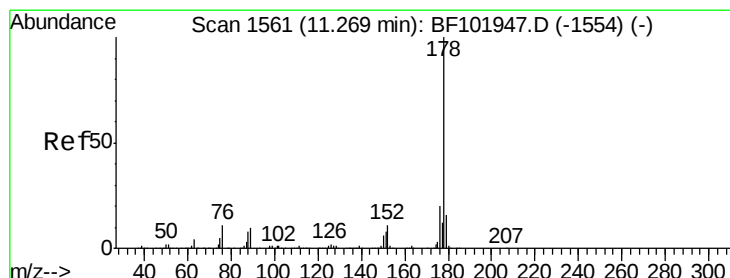
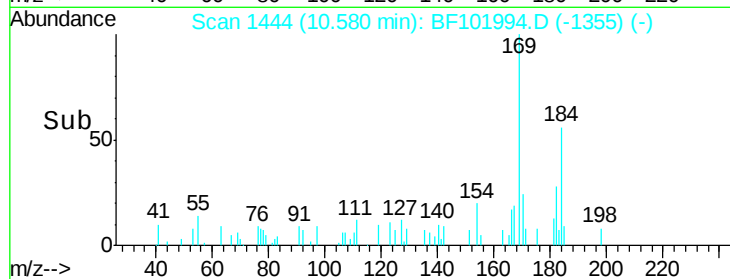
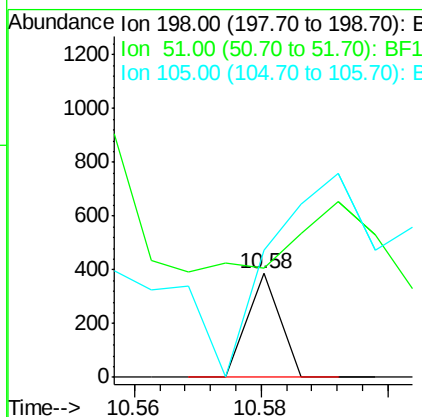
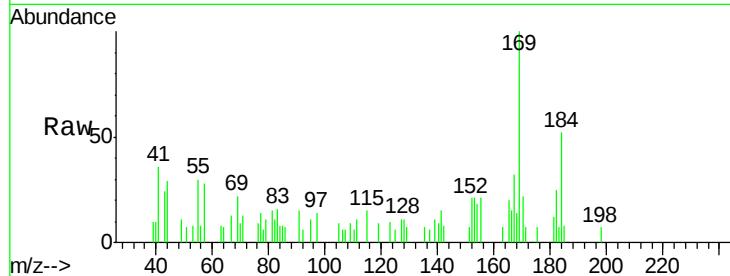




#64
 4,6-Dinitro-2-methylphenol
 Concen: 5.696 ng
 RT: 10.58 min Scan# 1444
 Delta R.T. 0.22 min
 Lab File: BF101994.D
 Acq: 10 Jan 2018 22:10

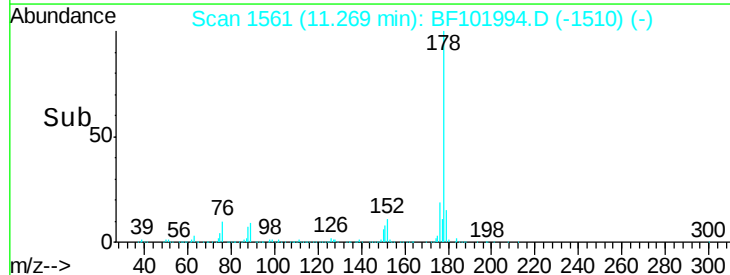
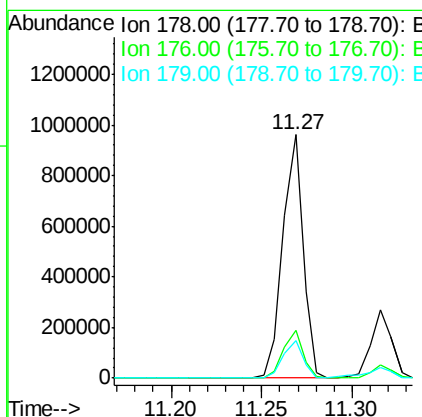
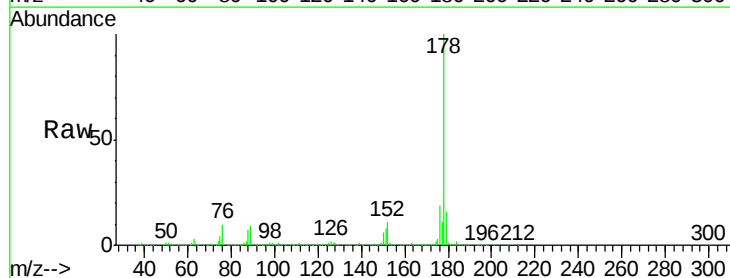
Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

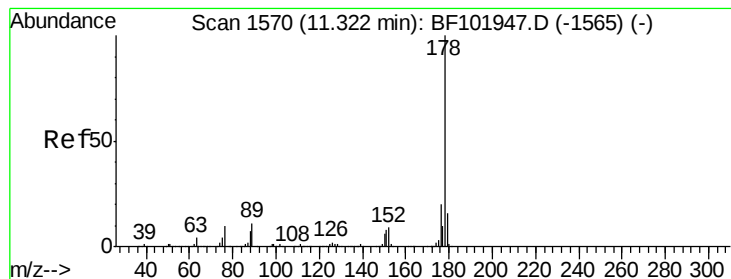
Tot Ion:198 Resp: 137
 Ion Ratio Lower Upper
 198 100
 51 105.2 37.7 77.7#
 105 122.0 36.3 76.3#



#70
 Phenanthrene
 Concen: 19.568 ng
 RT: 11.27 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: BF101994.D
 Acq: 10 Jan 2018 22:10

Tgt Ion:178 Resp: 756961
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.8 23.8
 179 15.5 13.0 19.6





#71

Anthracene

Concen: 5.364 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

Instrument :

BNA_F

ClientSampleId :

WC-096613-01

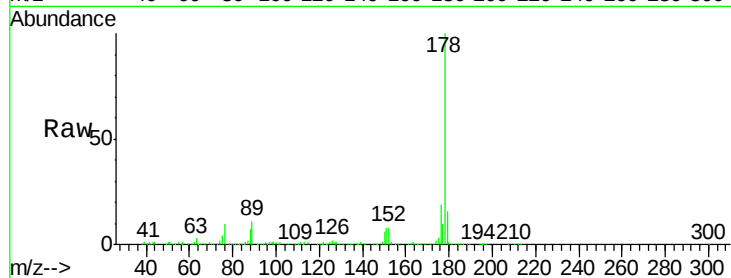
Tot Ion:178 Resp: 210432

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.2

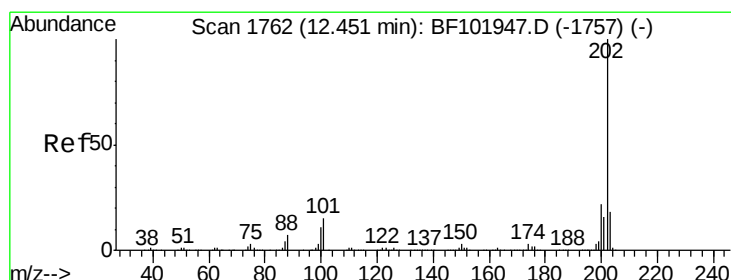
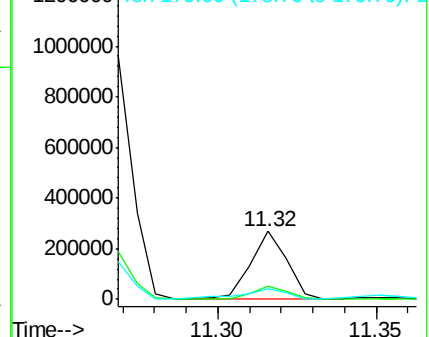
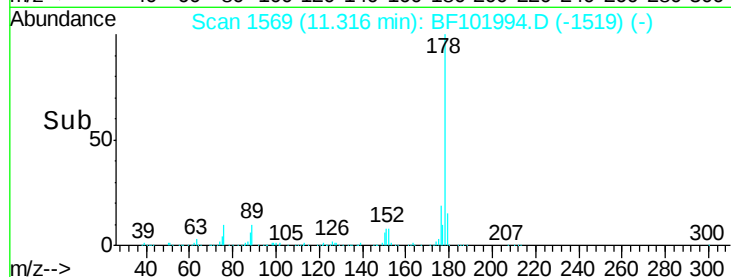
179 15.7 12.6 19.0



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



#74

Fluoranthene

Concen: 14.931 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.00 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

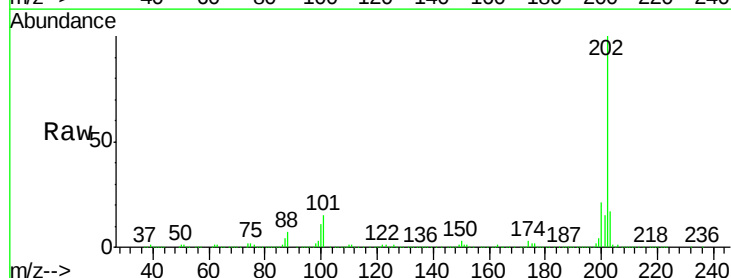
Tgt Ion:202 Resp: 568280

Ion Ratio Lower Upper

202 100

101 14.7 0.0 34.1

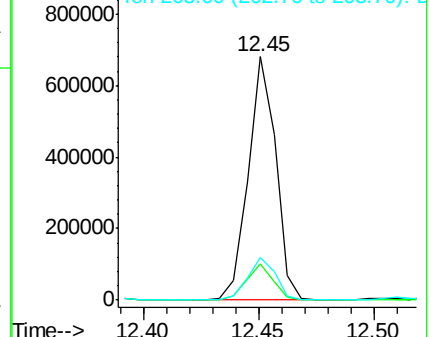
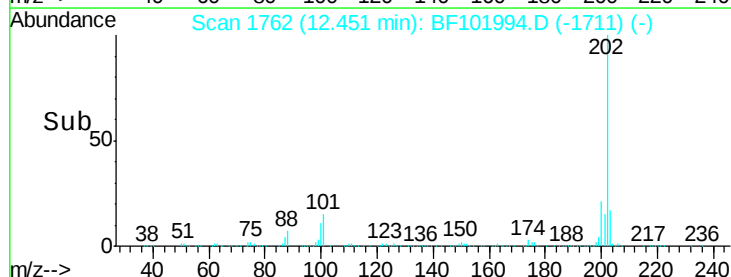
203 17.4 0.0 38.1

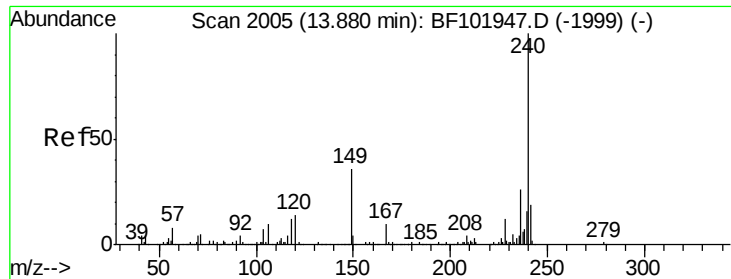


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

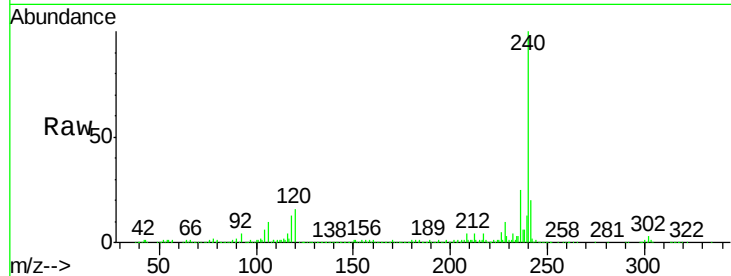
Instrument :

BNA_F

ClientSampleId :

WC-096613-01

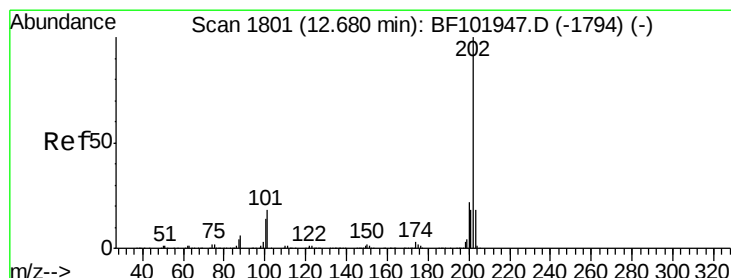
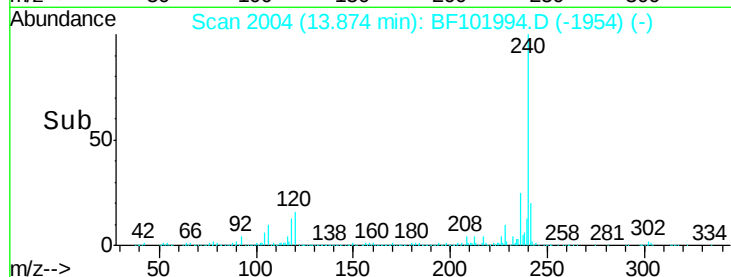
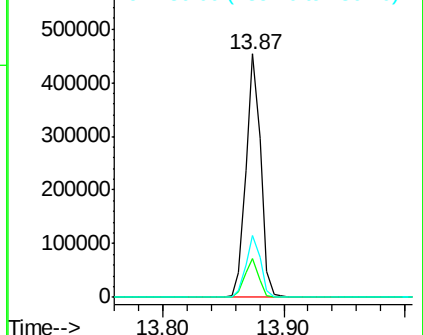
Tot Ion:240	Resp:	390004
Ion Ratio	Lower	Upper
240	100	
120	15.8	9.5 14.3#
236	25.5	20.7 31.1



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: 15.231 ng

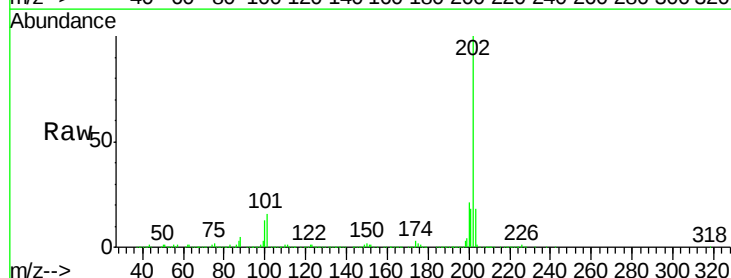
RT: 12.68 min Scan# 1801

Delta R.T. -0.00 min

Lab File: BF101994.D

Acq: 10 Jan 2018 22:10

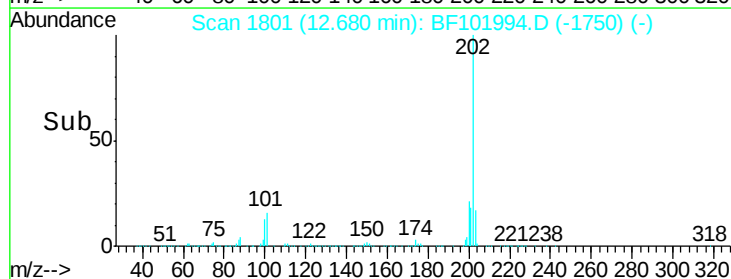
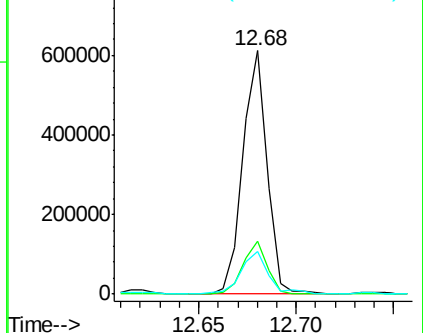
Tgt Ion:202	Resp:	525068
Ion Ratio	Lower	Upper
202	100	
200	21.5	17.4 26.2
203	17.8	14.3 21.5

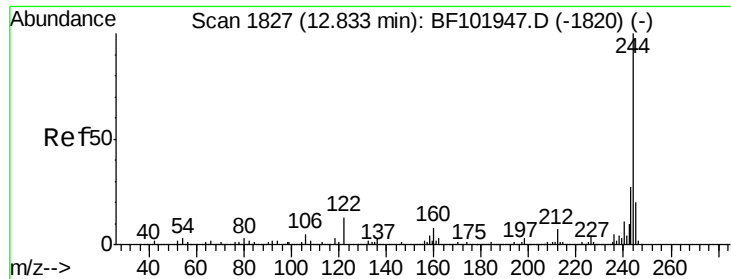


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

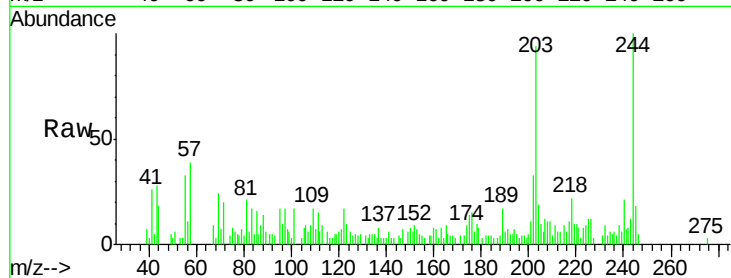




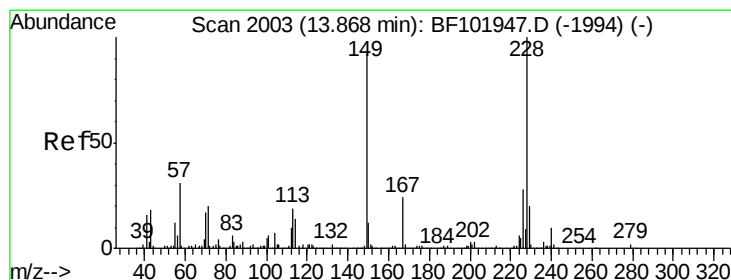
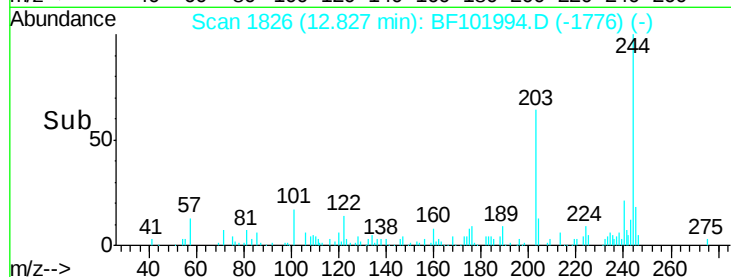
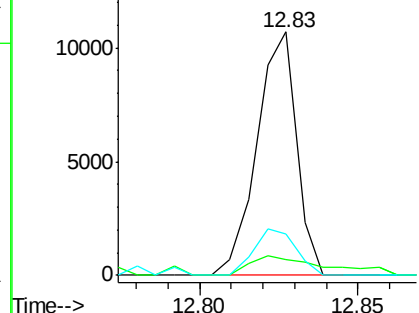
#78
 Terphenyl-d14
 Concen: 0.495 ng
 RT: 12.83 min Scan# 1826
 Delta R.T. -0.01 min
 Lab File: BF101994.D
 Acq: 10 Jan 2018 22:10

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

Tot Ion:244 Resp: 9294
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.4 8.0
 122 16.9 11.0 16.4#

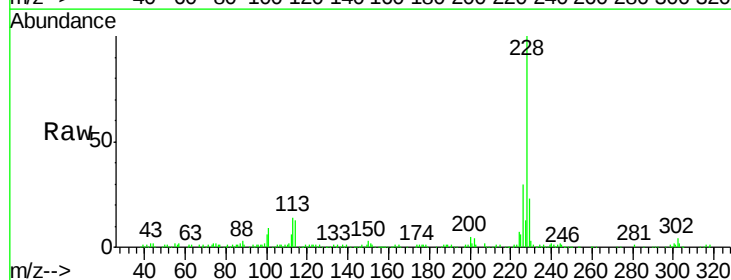


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

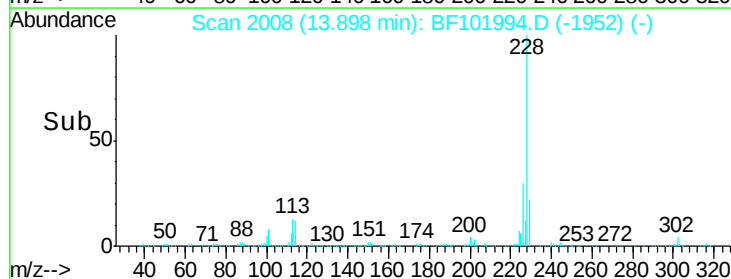
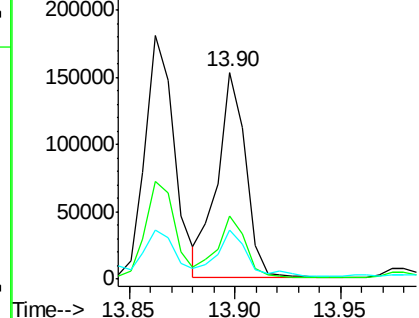


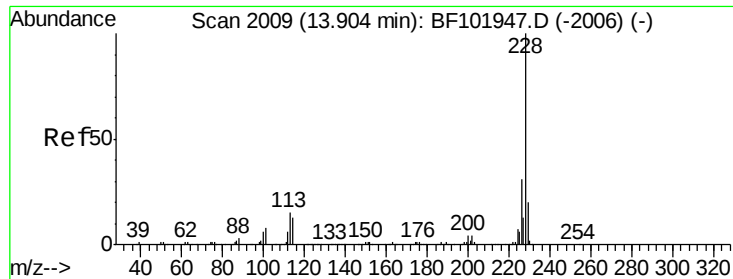
#80
 Benzo(a)anthracene
 Concen: 5.762 ng
 RT: 13.90 min Scan# 2008
 Delta R.T. 0.03 min
 Lab File: BF101994.D
 Acq: 10 Jan 2018 22:10

Tgt Ion:228 Resp: 143366
 Ion Ratio Lower Upper
 228 100
 226 30.3 22.6 33.8
 229 23.5 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

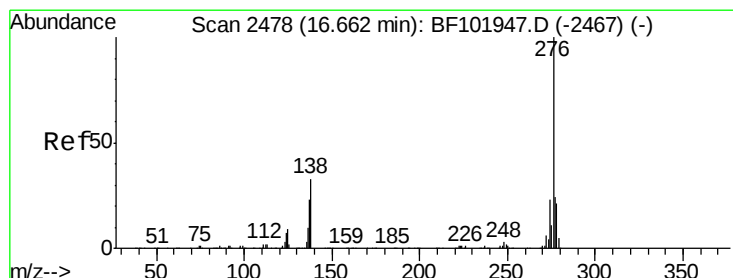
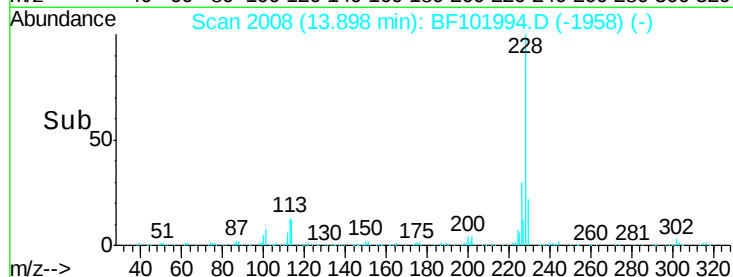
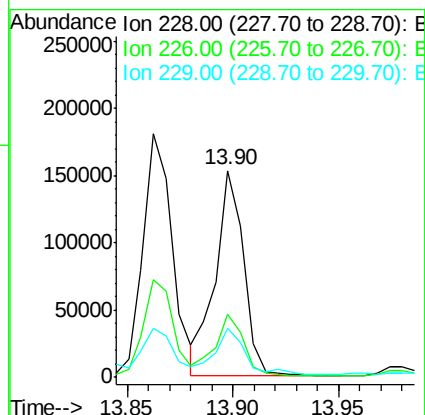
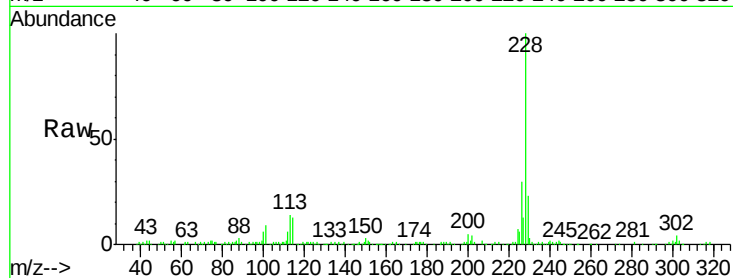




#82
Chrysene
Concen: 5.525 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF101994.D
Acq: 10 Jan 2018 22:10

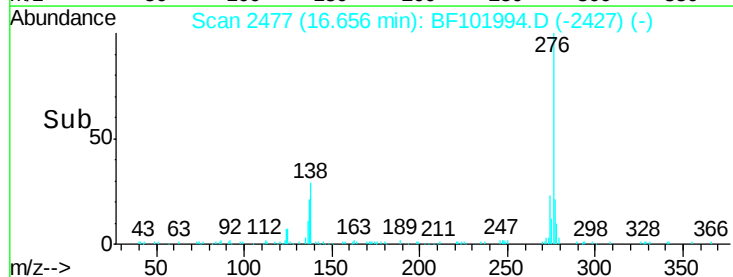
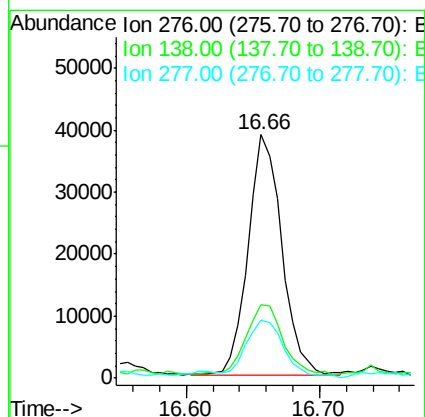
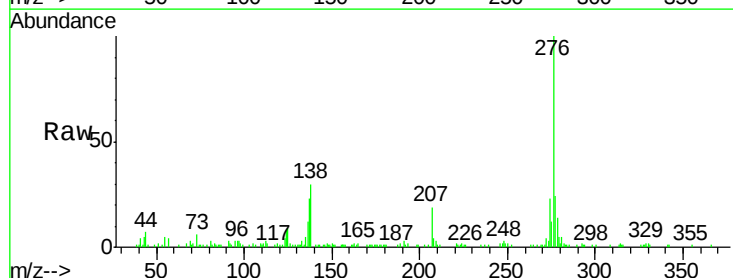
Instrument :
BNA_F
ClientSampleId :
WC-096613-01

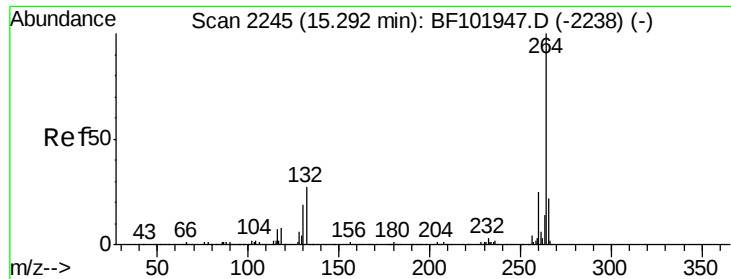
Tot Ion:228 Resp: 143366
Ion Ratio Lower Upper
228 100
226 30.3 25.0 37.6
229 23.5 16.2 24.4



#85
Indeno(1,2,3-cd)pyrene
Concen: 3.575 ng
RT: 16.66 min Scan# 2477
Delta R.T. -0.01 min
Lab File: BF101994.D
Acq: 10 Jan 2018 22:10

Tgt Ion:276 Resp: 67506
Ion Ratio Lower Upper
276 100
138 31.9 25.0 37.6
277 27.9 20.1 30.1

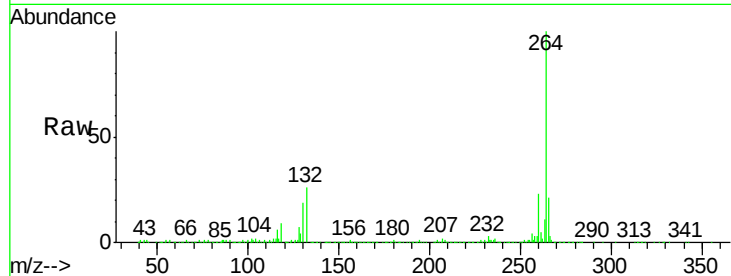




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. -0.00 min
Lab File: BF101994.D
Acq: 10 Jan 2018 22:10

Instrument :
BNA_F
ClientSampleId :
WC-096613-01

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	21.5	17.5	26.3

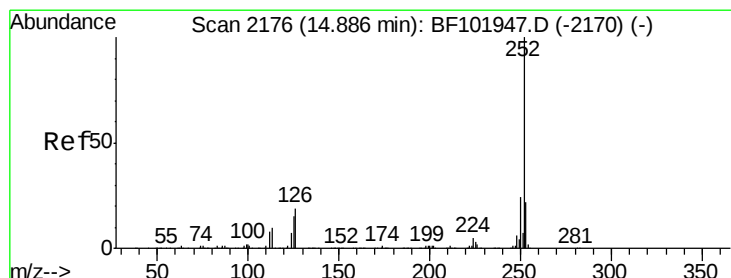
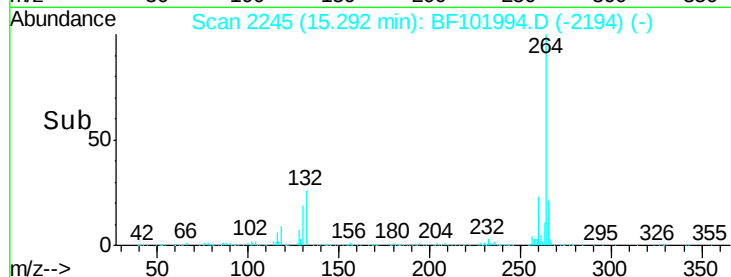
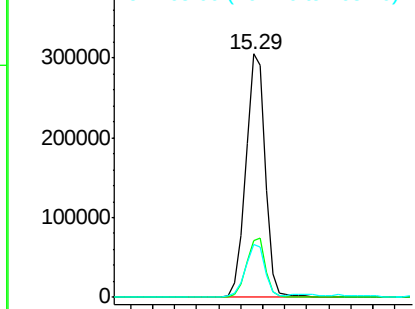


Abundance

Ion 264.00 (263.70 to 264.70): E

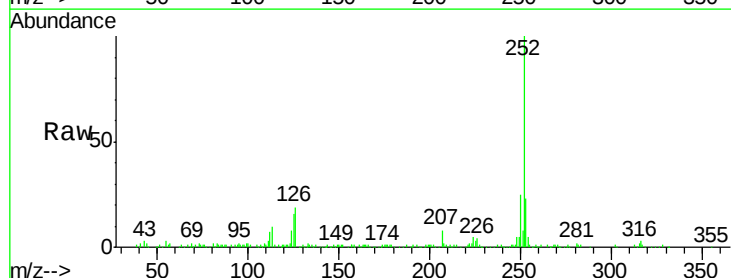
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 8.114 ng
RT: 14.89 min Scan# 2176
Delta R.T. -0.00 min
Lab File: BF101994.D
Acq: 10 Jan 2018 22:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	15.9	9.0	13.6#

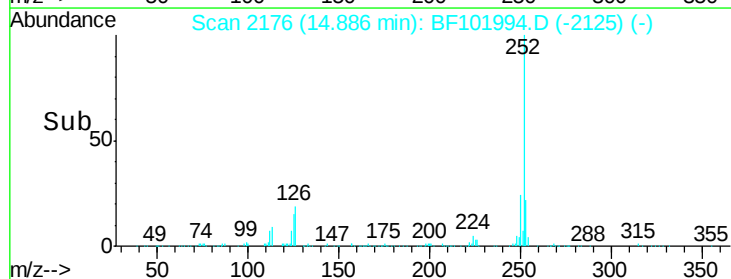
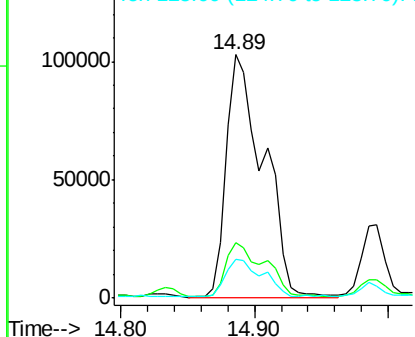


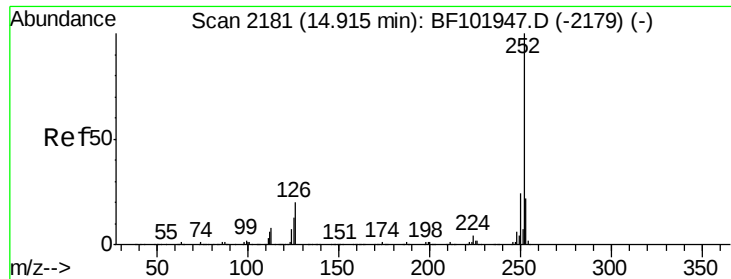
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

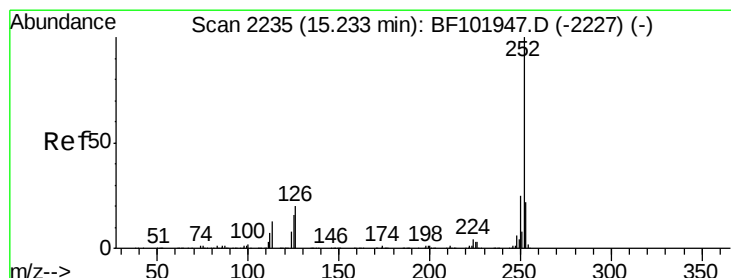
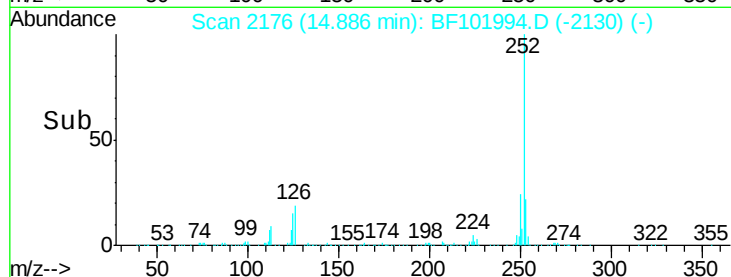
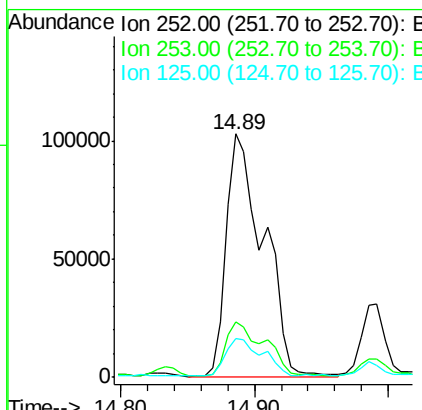
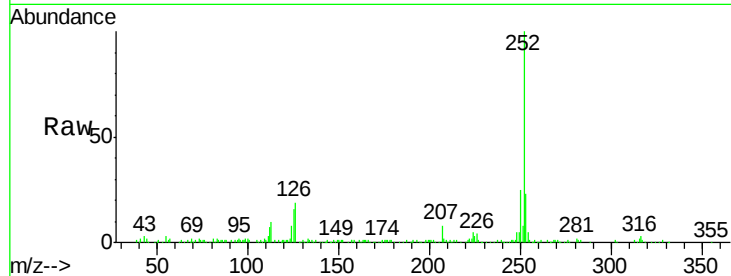




#88
Benzo(k)fluoranthene
Concen: 8.411 ng
RT: 14.89 min Scan# 2176
Delta R.T. -0.03 min
Lab File: BF101994.D
Acq: 10 Jan 2018 22:10

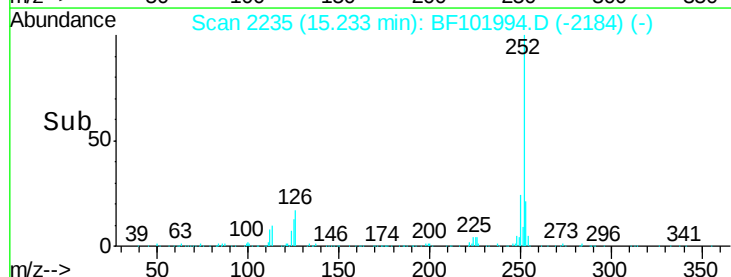
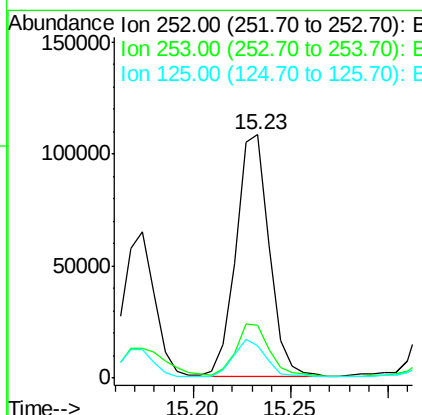
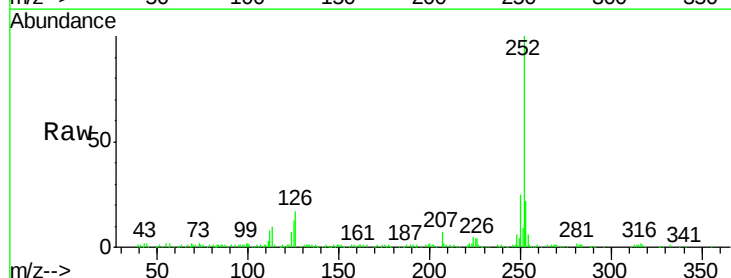
Instrument :
BNA_F
ClientSampleId :
WC-096613-01

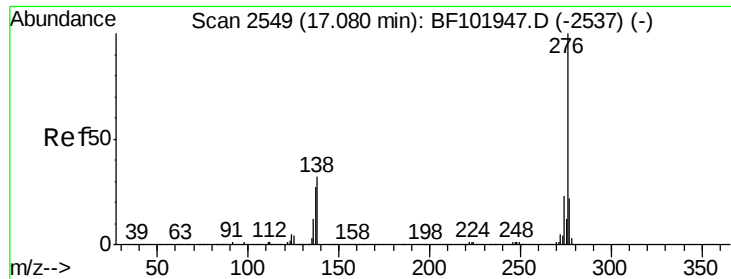
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	15.9	10.2	15.2#



#89
Benzo(a)pyrene
Concen: 5.738 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.00 min
Lab File: BF101994.D
Acq: 10 Jan 2018 22:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	13.2	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 3.619 ng
 RT: 17.07 min Scan# 2547
 Delta R.T. -0.01 min
 Lab File: BF101994.D
 Acq: 10 Jan 2018 22:10

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-01

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.7	17.9	26.9
138	31.7	21.8	32.8

