

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF102005.D
 Acq On : 11 Jan 2018 3:03
 Operator : SJ/JU
 Sample : J1076-20 50X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-50-02

Quant Time: Jan 11 05:01:07 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	201166	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	793460	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	321968	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	467340	20.00	ng	0.00
75) Chrysene-d12	13.87	240	323945	20.00	ng	0.00
86) Perylene-d12	15.29	264	383093	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	4563	0.32	ng	0.00
7) Phenol-d6	6.35	99	5639	0.33	ng	0.00
23) Nitrobenzene-d5	7.28	82	2849	0.21	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	659	0.23	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	6596	0.32	ng	-0.01
78) Terphenyl-d14	12.82	244	4299	0.28	ng	-0.01

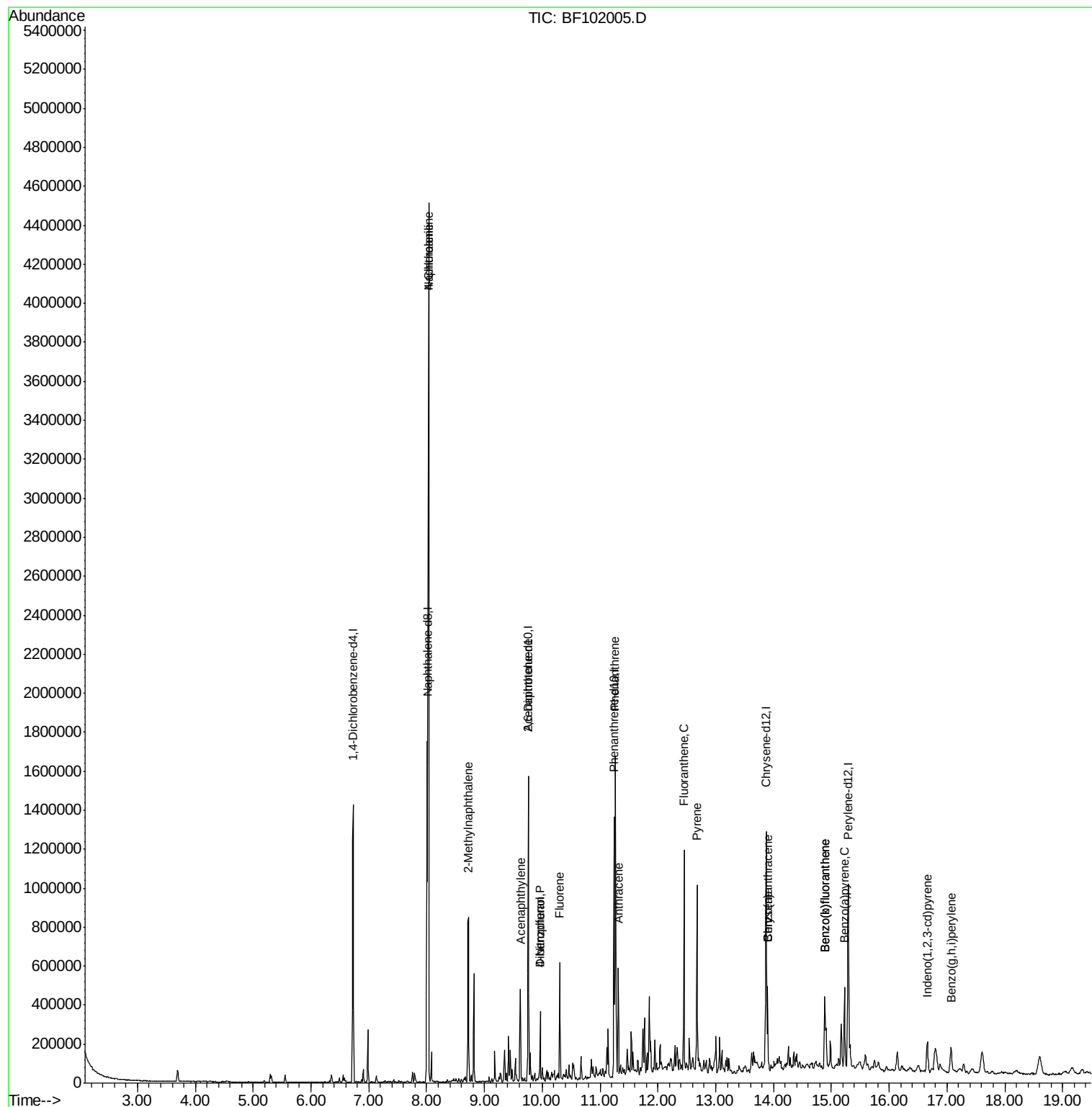
Target Compounds				Qvalue		
31) Naphthalene	8.03	128	1910023	48.175	ng	99
33) 4-Chloroaniline	8.03	127	258777	15.292	ng	# 33
37) 2-Methylnaphthalene	8.72	142	226690	8.685	ng	97
48) Acenaphthylene	9.62	152	189214	5.403	ng	99
50) 2,6-Dinitrotoluene	9.76	165	44691	8.662	ng	# 26
54) Dibenzofuran	9.96	168	106026	3.634	ng	98
55) 4-Nitrophenol	9.96	139	38621	7.959	ng	# 10
57) Fluorene	10.30	166	147346	7.306	ng	97
70) Phenanthrene	11.27	178	604773	22.154	ng	98
71) Anthracene	11.32	178	174270	6.294	ng	99
74) Fluoranthene	12.45	202	398461	14.836	ng	98
77) Pyrene	12.68	202	373408	13.040	ng	99
80) Benzo(a)anthracene	13.90	228	139032	6.727	ng	97
82) Chrysene	13.90	228	139032	6.451	ng	96
85) Indeno(1,2,3-cd)pyrene	16.66	276	89479	5.704	ng	99
87) Benzo(b)fluoranthene	14.89	252	246447	9.866	ng	# 96
88) Benzo(k)fluoranthene	14.89	252	246447	10.228	ng	98
89) Benzo(a)pyrene	15.23	252	165012	7.341	ng	# 94
91) Benzo(a,h,i)perylene	17.07	276	87857	4.862	ng	# 92

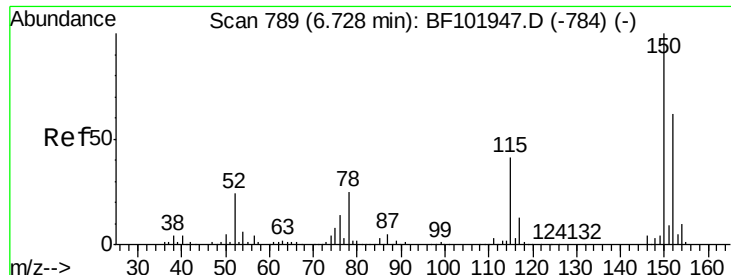
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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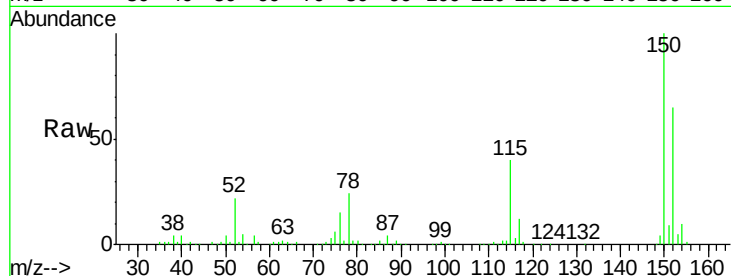


#1

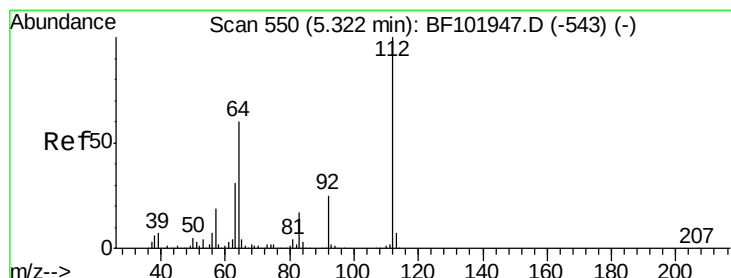
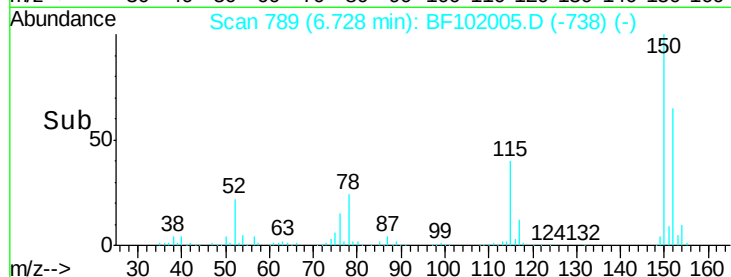
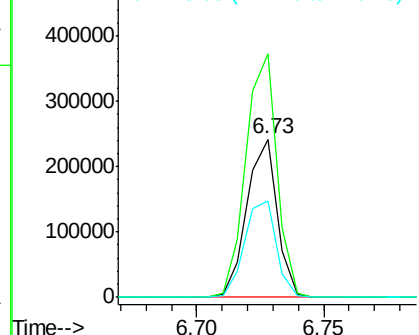
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. 0.00 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Instrument :
BNA_F
ClientSampleId :
WC-50-02

Tot Ion:152 Resp: 201166
Ion Ratio Lower Upper
152 100
150 154.1 124.6 186.8
115 61.3 50.1 75.1



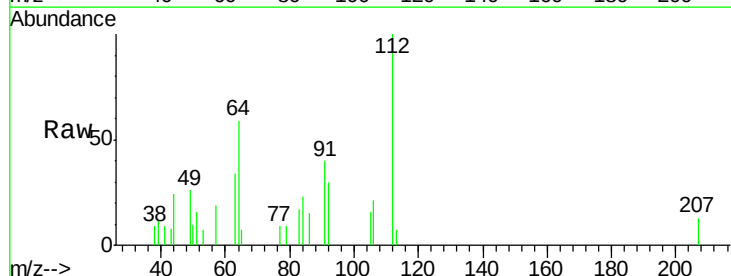
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



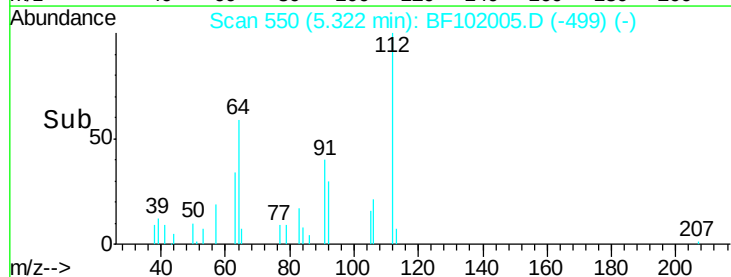
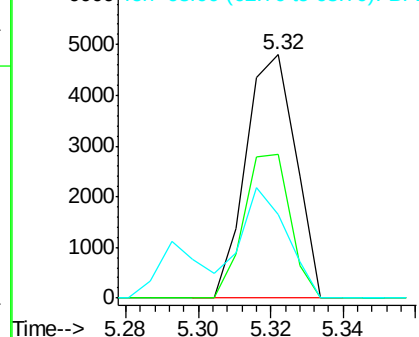
#5

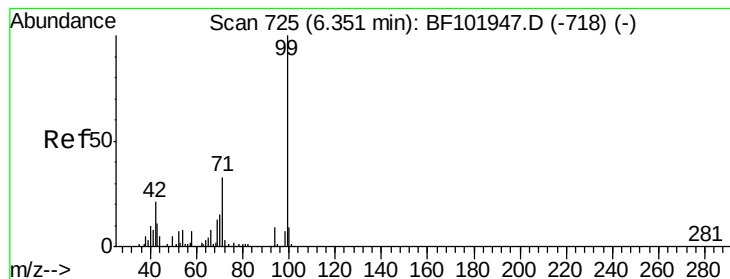
2-Fluorophenol
Concen: 0.320 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Tgt Ion:112 Resp: 4563
Ion Ratio Lower Upper
112 100
64 58.9 47.9 71.9
63 34.2 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 0.332 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF102005.D

Acq: 11 Jan 2018 3:03

Instrument :

BNA_F

ClientSampleId :

WC-50-02

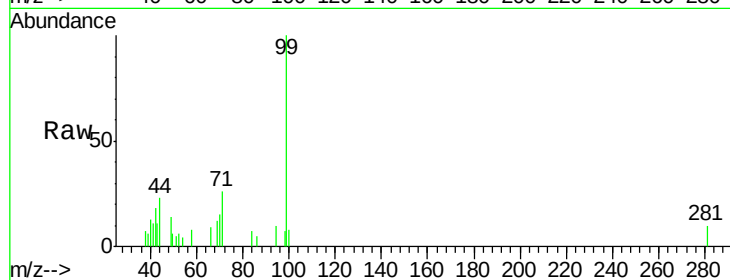
Tot Ion: 99 Resp: 5639

Ion Ratio Lower Upper

99 100

42 18.2 14.5 21.7

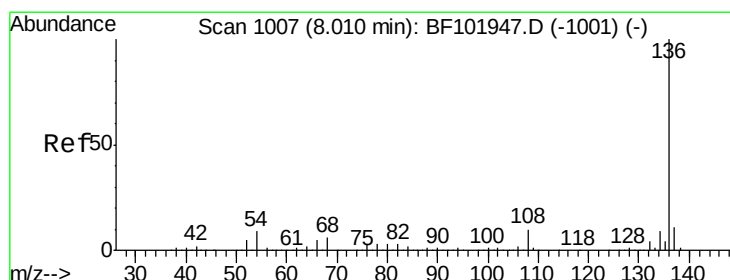
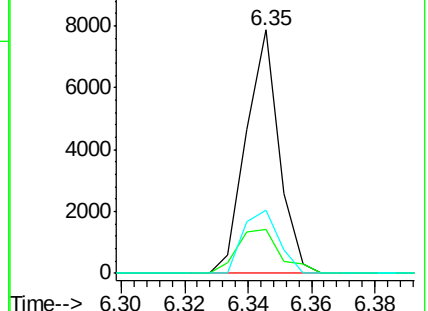
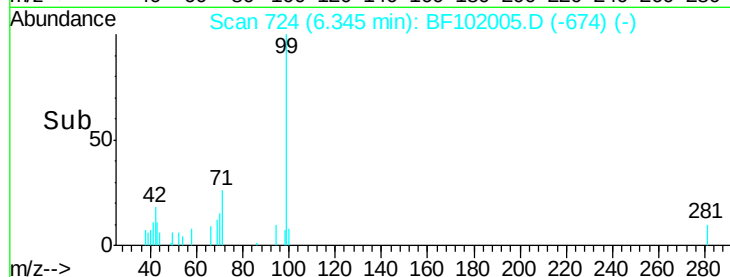
71 26.0 25.4 38.0



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: BF102005.D

Acq: 11 Jan 2018 3:03

Tgt Ion: 136 Resp: 793460

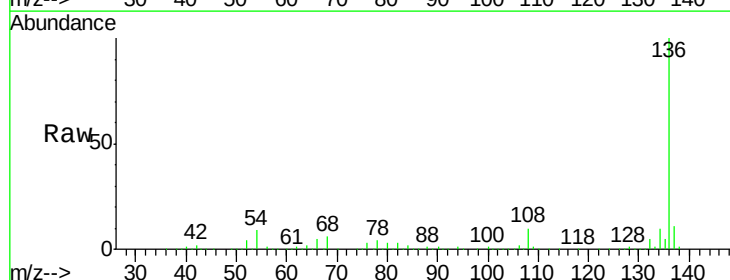
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 8.6 6.6 9.8

68 6.0 5.0 7.4

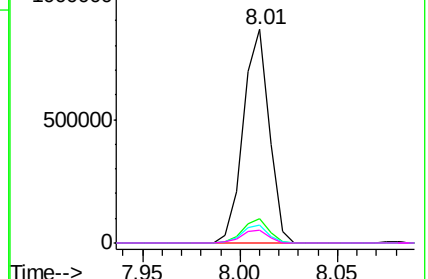
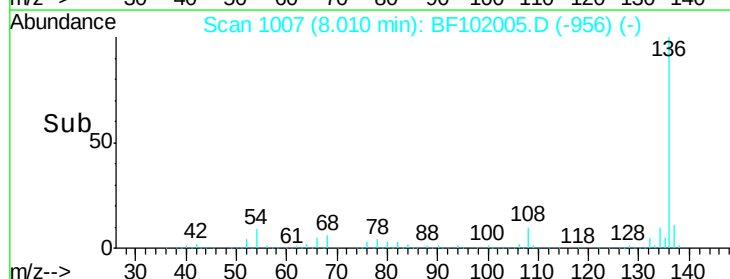


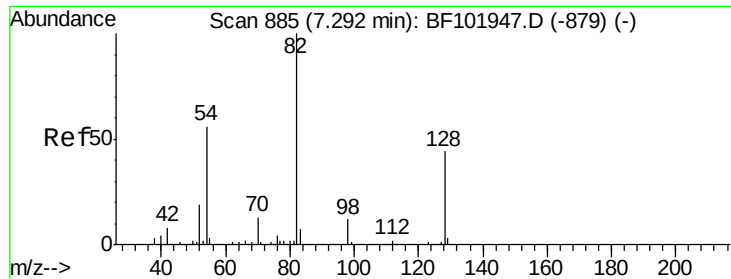
Abundance Ion 136.00 (135.70 to 136.70): E

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

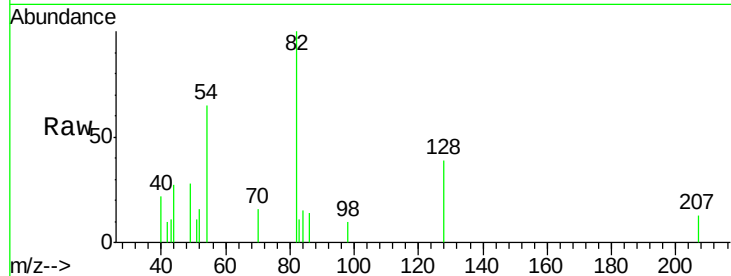




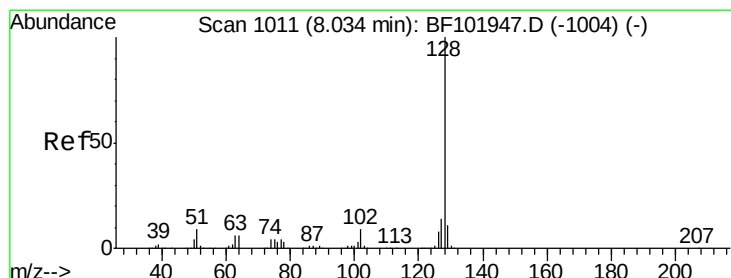
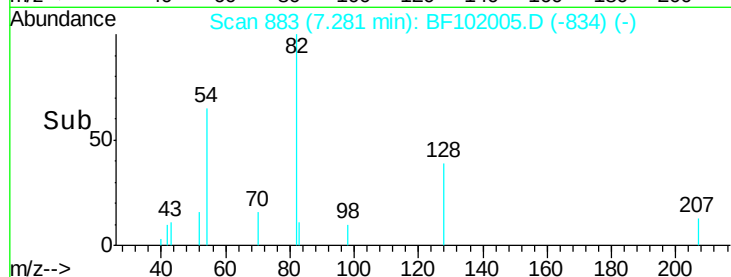
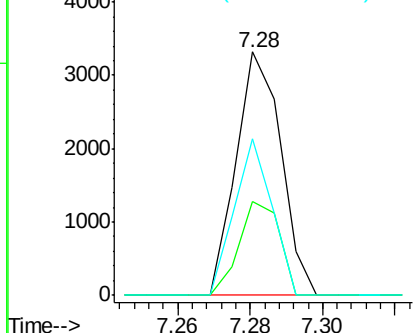
#23
 Nitrobenzene-d5
 Concen: 0.211 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF102005.D
 Acq: 11 Jan 2018 3:03

Instrument :
 BNA_F
 ClientSampleId :
 WC-50-02

Tot Ion: 82 Resp: 2849
 Ion Ratio Lower Upper
 82 100
 128 38.5 36.1 54.1
 54 64.5 41.4 62.2#

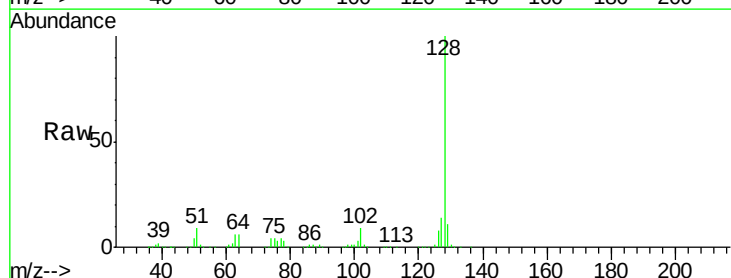


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

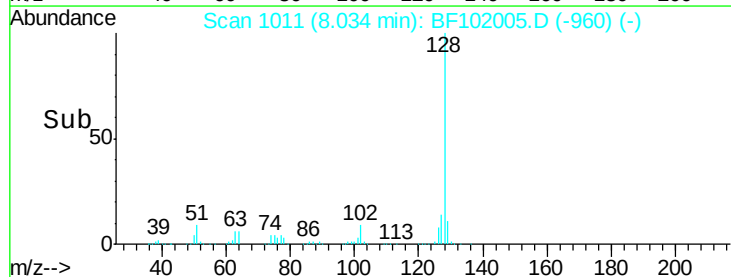
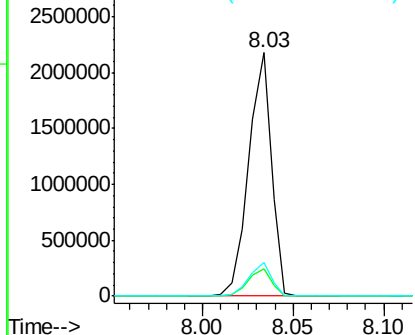


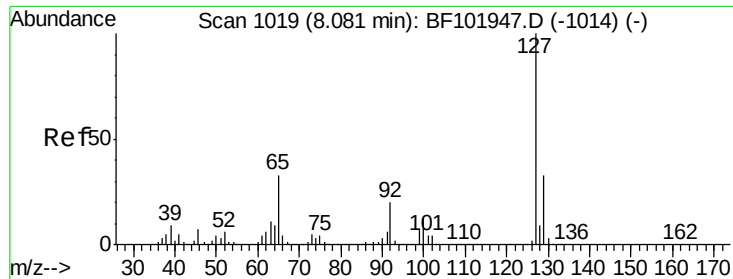
#31
 Naphthalene
 Concen: 48.175 ng
 RT: 8.03 min Scan# 1011
 Delta R.T. 0.00 min
 Lab File: BF102005.D
 Acq: 11 Jan 2018 3:03

Tgt Ion:128 Resp: 1910023
 Ion Ratio Lower Upper
 128 100
 129 11.5 8.8 13.2
 127 13.8 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

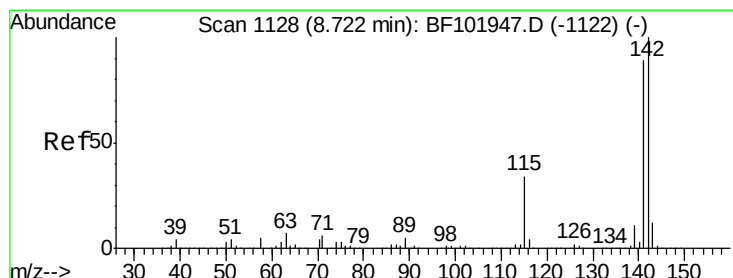
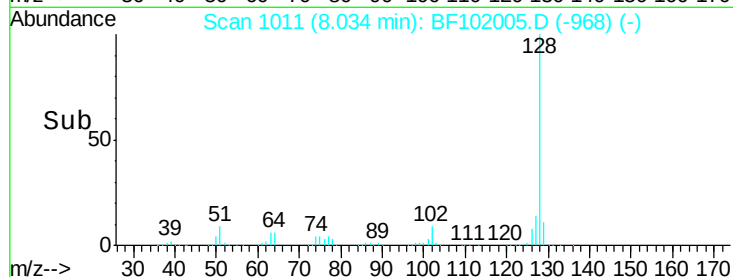
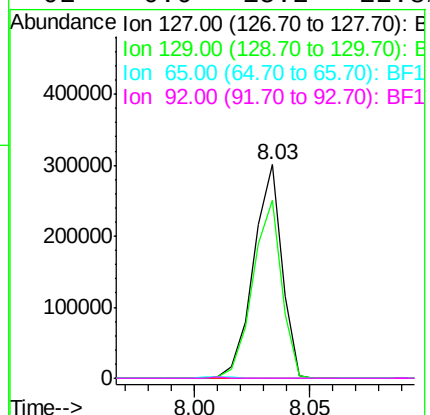
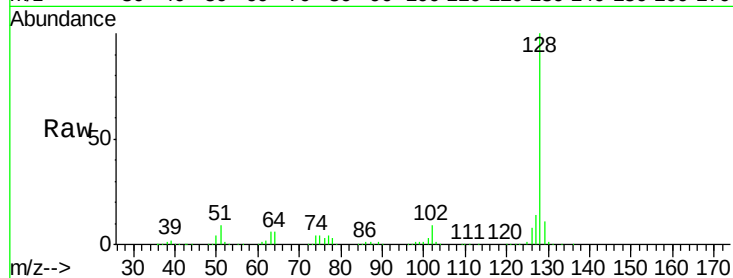




#33
4-Chloroaniline
Concen: 15.292 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.05 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

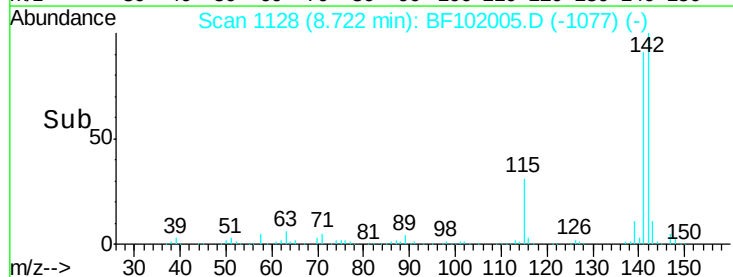
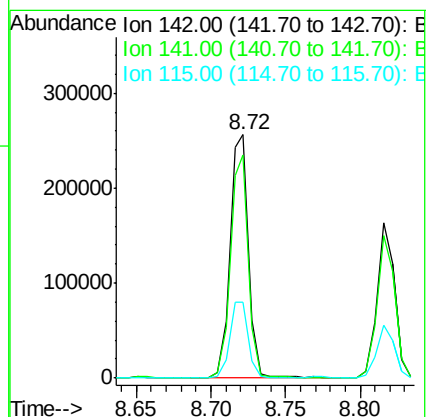
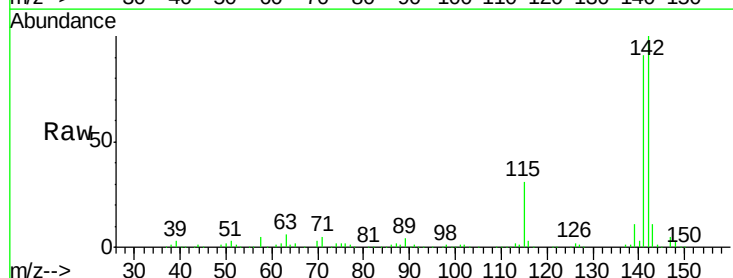
Instrument :
BNA_F
ClientSampleId :
WC-50-02

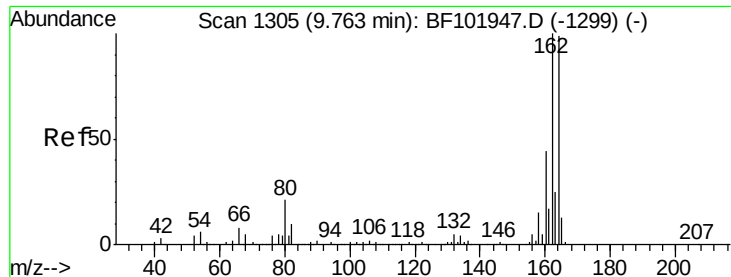
Tot Ion:127 Resp: 258777
Ion Ratio Lower Upper
127 100
129 83.1 25.9 38.9#
65 0.0 25.0 37.4#
92 0.0 15.2 22.8#



#37
2-Methylnaphthalene
Concen: 8.685 ng
RT: 8.72 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Tgt Ion:142 Resp: 226690
Ion Ratio Lower Upper
142 100
141 91.4 70.8 106.2
115 31.4 26.1 39.1

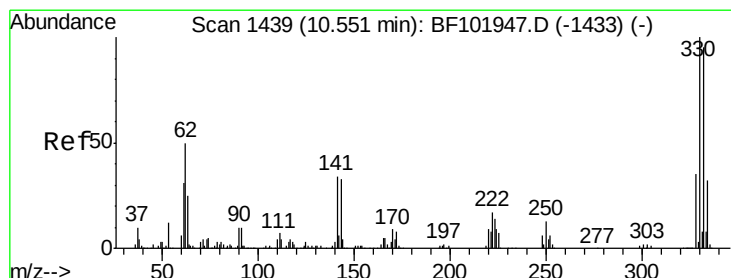
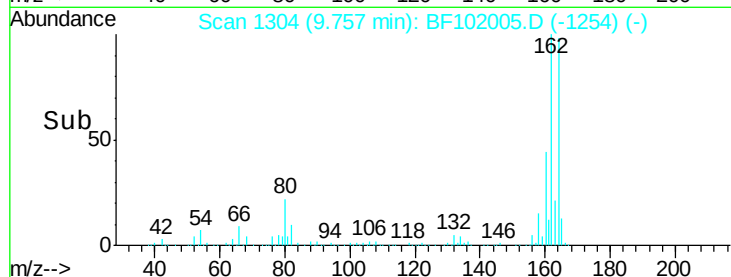
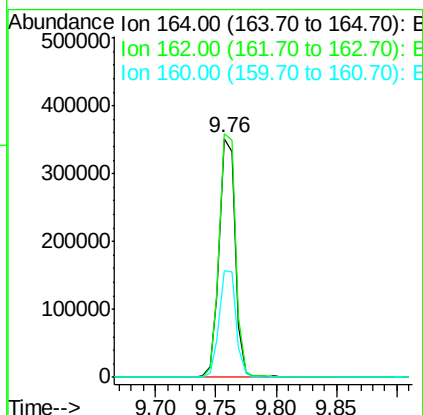
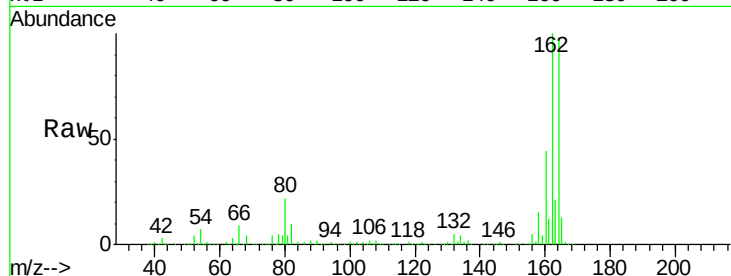




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.01 min
 Lab File: BF102005.D
 Acq: 11 Jan 2018 3:03

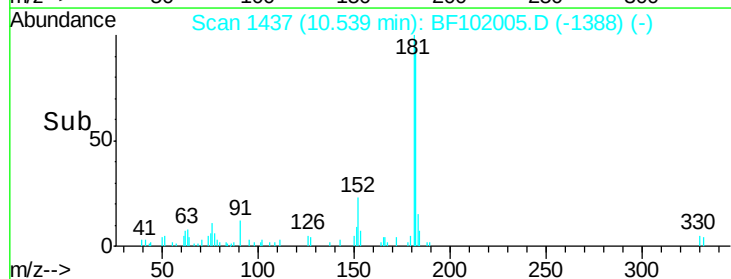
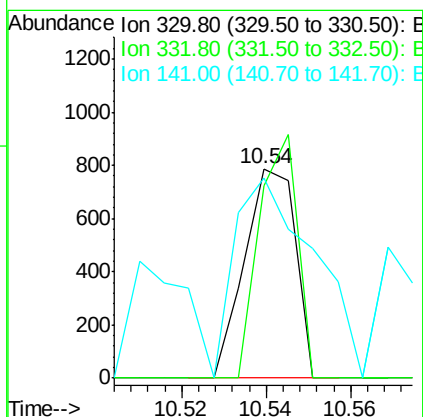
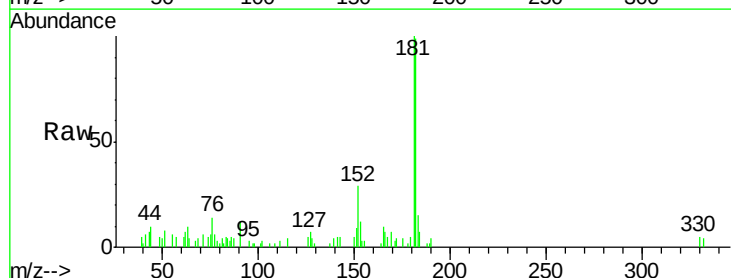
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 BNA_F
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 WC-50-02

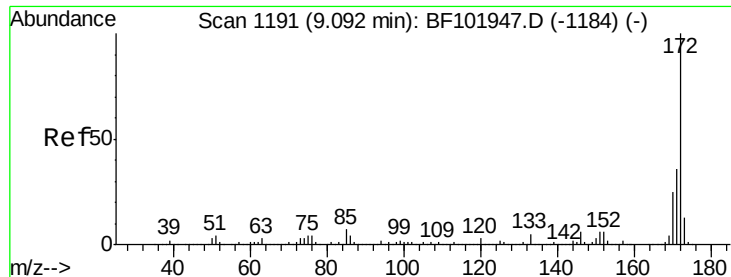
Tot Ion:164 Resp: 321968
 Ion Ratio Lower Upper
 164 100
 162 102.0 86.1 129.1
 160 44.7 38.3 57.5



#41
 2,4,6-Tribromophenol
 Concen: 0.235 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF102005.D
 Acq: 11 Jan 2018 3:03

Tgt Ion:330 Resp: 659
 Ion Ratio Lower Upper
 330 100
 332 87.9 77.0 115.6
 141 149.2 29.9 44.9#

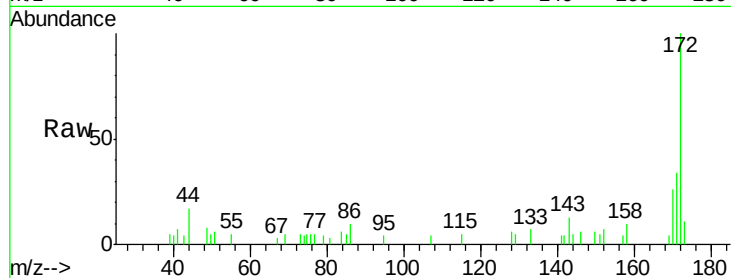




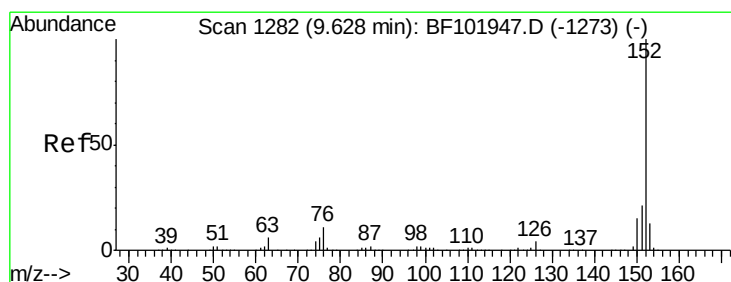
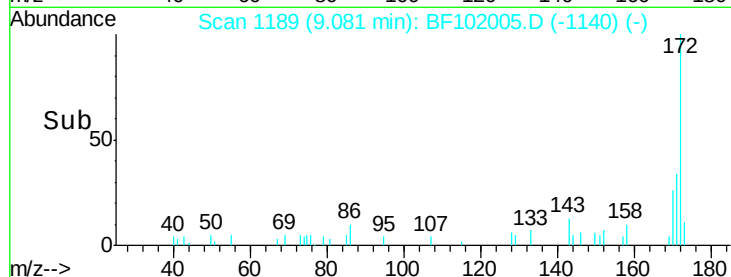
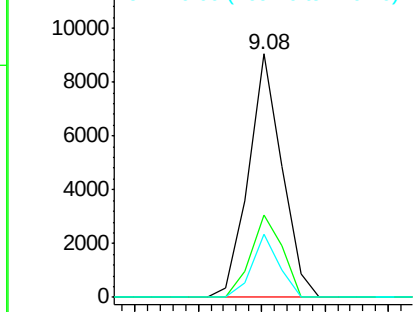
#44
2-Fluorobiphenyl
Concen: 0.320 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Instrument :
BNA_F
ClientSampleId :
WC-50-02

Tot Ion:172 Resp: 6596
Ion Ratio Lower Upper
172 100
171 34.0 29.7 44.5
170 25.9 19.6 29.4

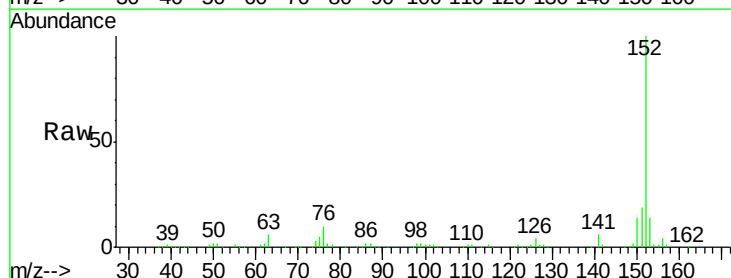


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

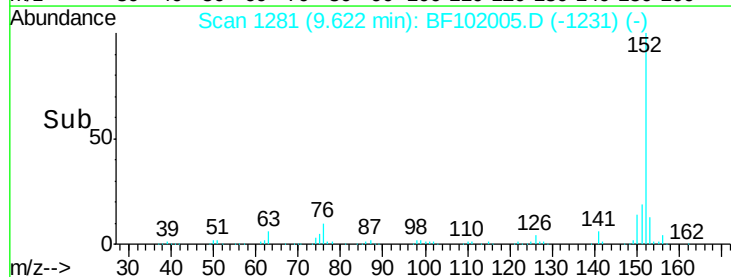
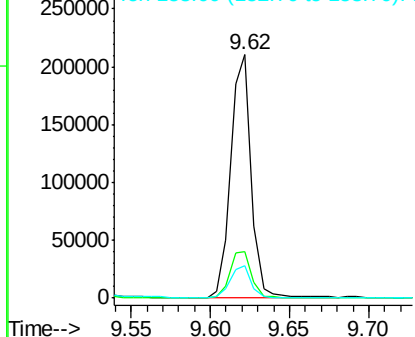


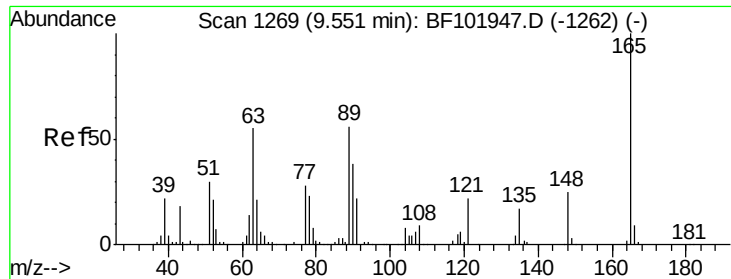
#48
Acenaphthylene
Concen: 5.403 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Tgt Ion:152 Resp: 189214
Ion Ratio Lower Upper
152 100
151 19.3 16.3 24.5
153 13.5 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

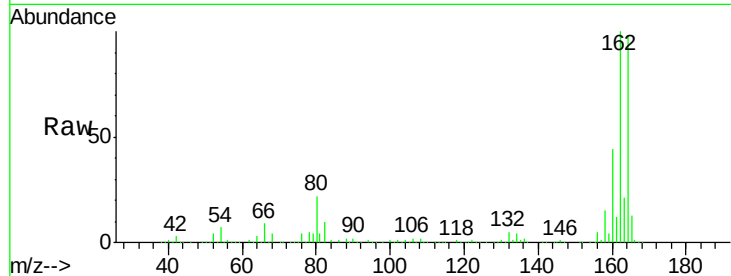




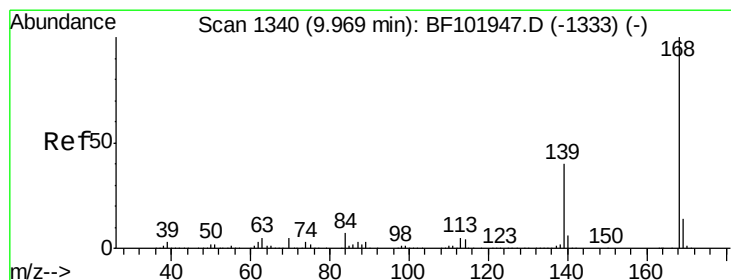
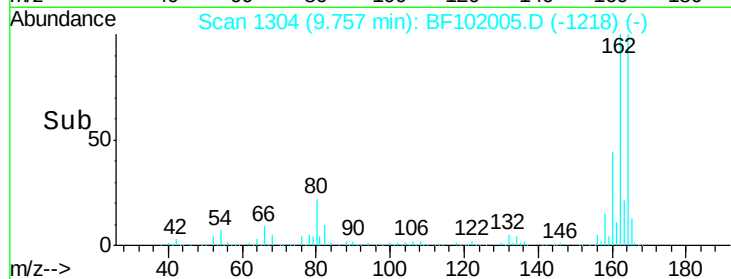
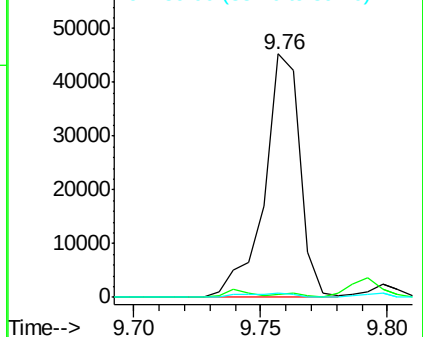
#50
2,6-Dinitrotoluene
Concen: 8.662 ng
RT: 9.76 min Scan# 1304
Delta R.T. 0.21 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Instrument :
BNA_F
ClientSampleId :
WC-50-02

Tot Ion:165 Resp: 44691
Ion Ratio Lower Upper
165 100
63 1.2 44.7 67.1#
89 1.8 44.0 66.0#

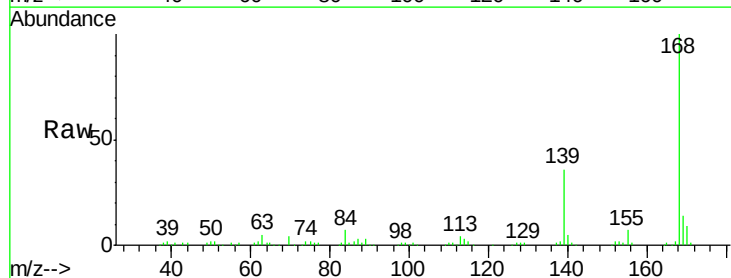


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

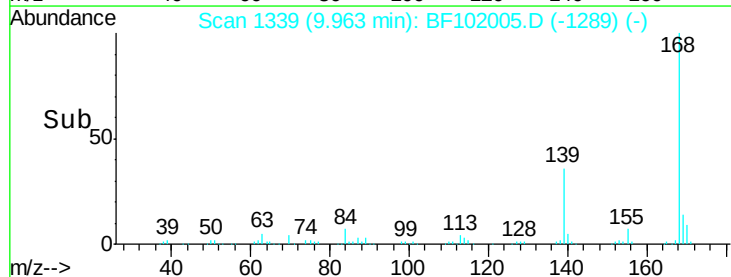
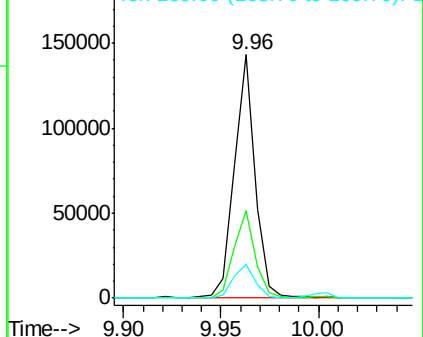


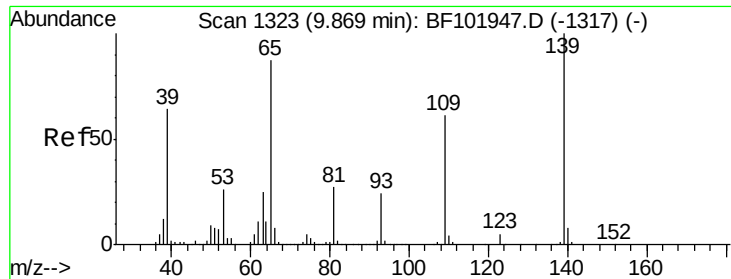
#54
Dibenzofuran
Concen: 3.634 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Tgt Ion:168 Resp: 106026
Ion Ratio Lower Upper
168 100
139 36.1 30.1 45.1
169 13.9 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

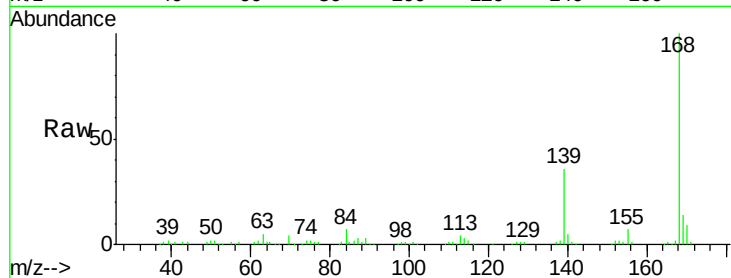




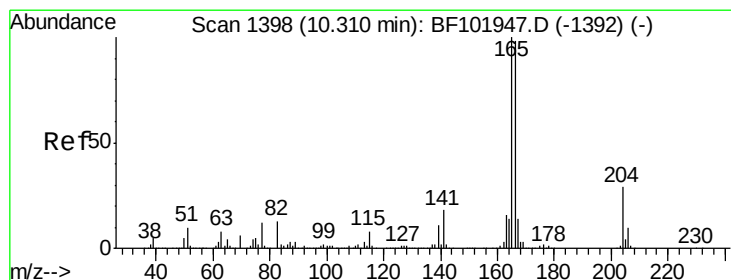
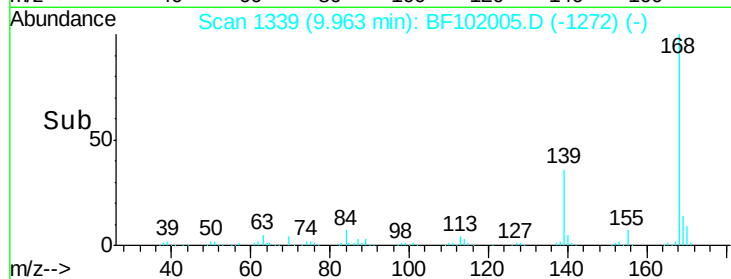
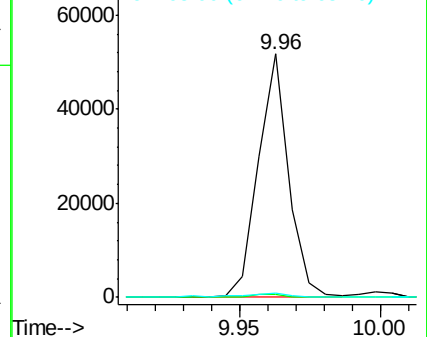
#55
4-Nitrophenol
Concen: 7.959 ng
RT: 9.96 min Scan# 1339
Delta R.T. 0.09 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Instrument :
BNA_F
ClientSampleId :
WC-50-02

Tot Ion	Ratio	Lower	Upper
139	100		
109	1.1	48.4	88.4#
65	2.0	72.6	112.6#

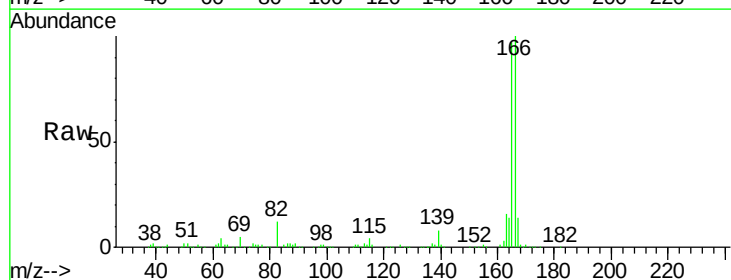


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

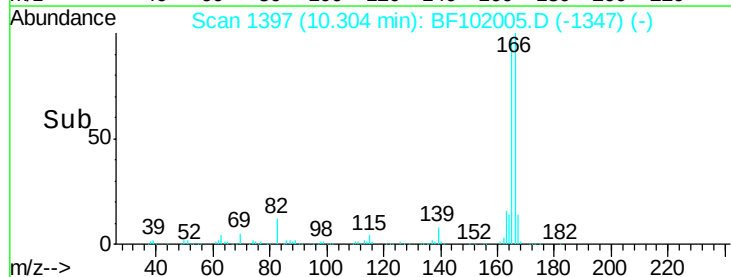
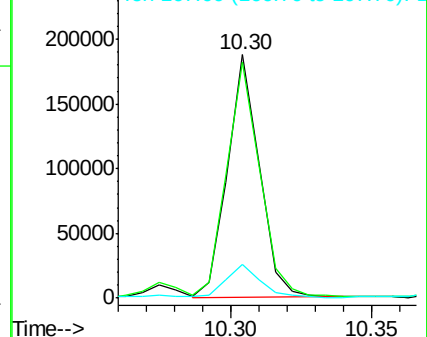


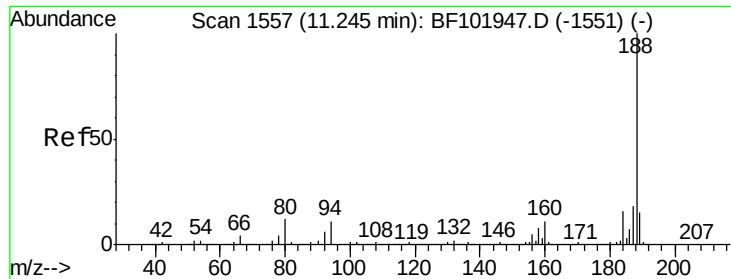
#57
Fluorene
Concen: 7.306 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.00 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.1	79.8	119.8
167	13.9	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

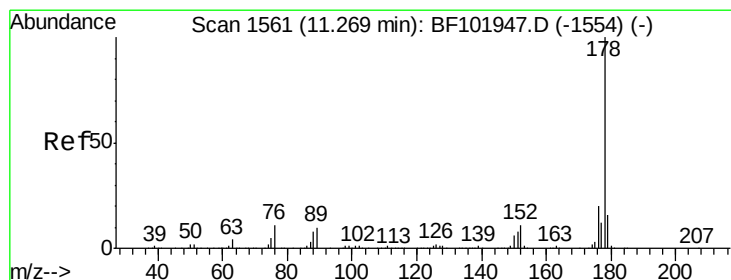
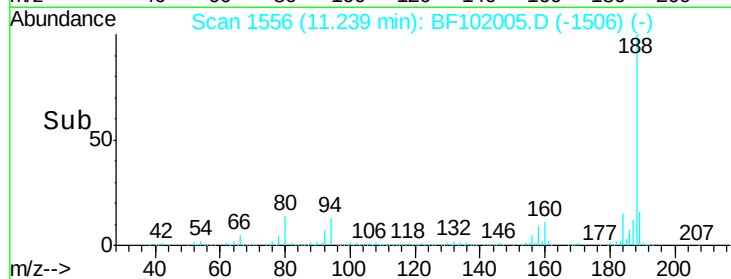
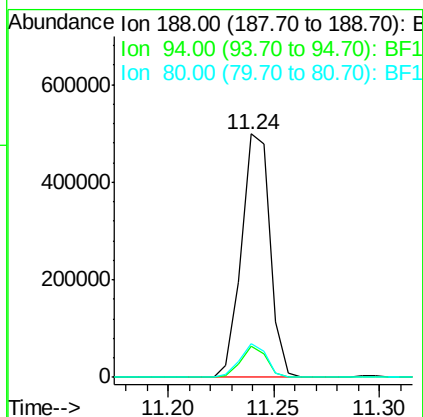
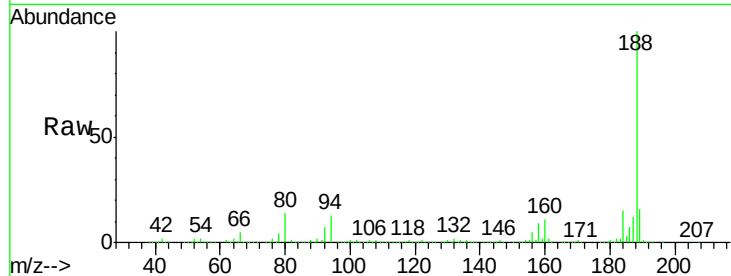




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

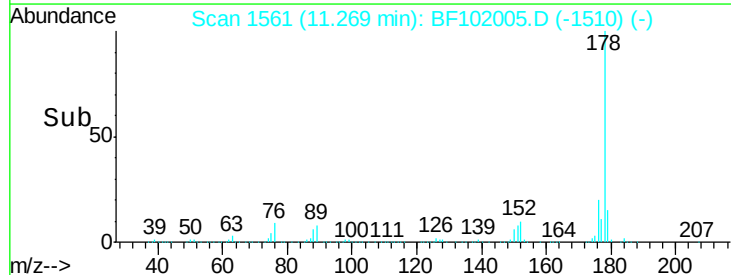
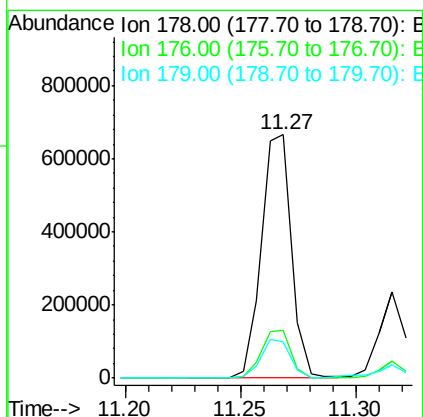
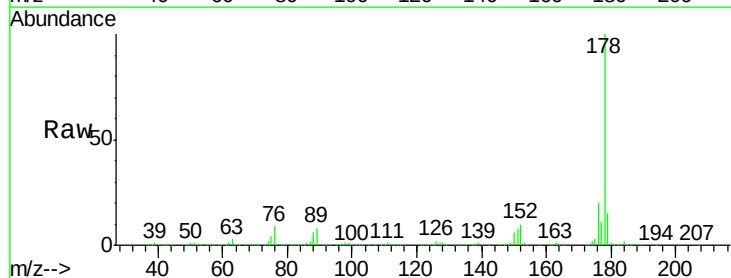
Instrument :
BNA_F
ClientSampleId :
WC-50-02

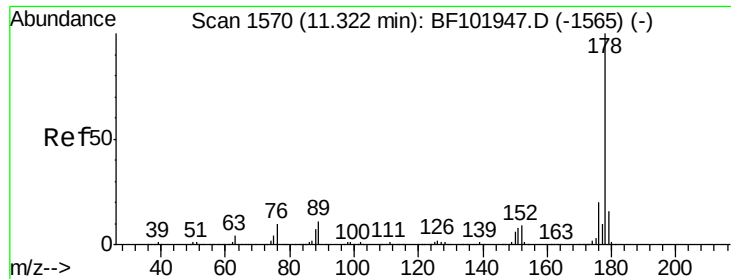
Tot Ion:188 Resp: 467340
Ion Ratio Lower Upper
188 100
94 12.9 8.5 12.7#
80 13.7 9.2 13.8



#70
Phenanthrene
Concen: 22.154 ng
RT: 11.27 min Scan# 1561
Delta R.T. 0.00 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Tgt Ion:178 Resp: 604773
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 14.9 13.0 19.6

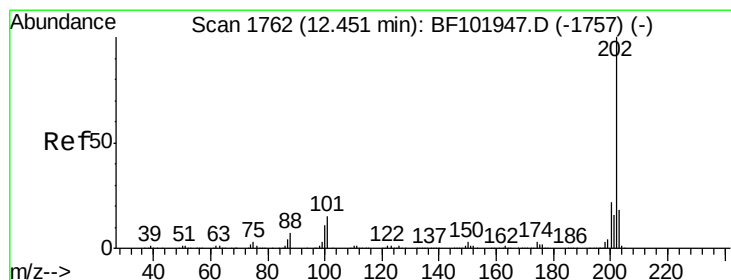
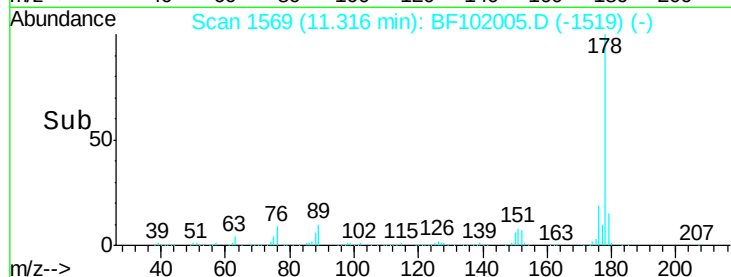
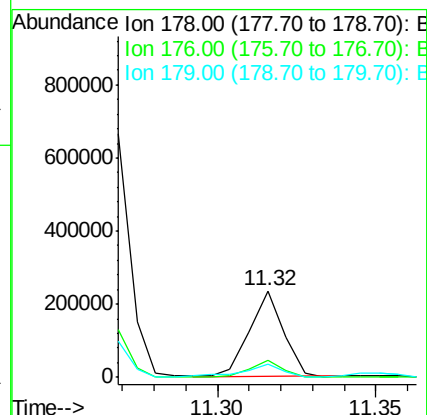
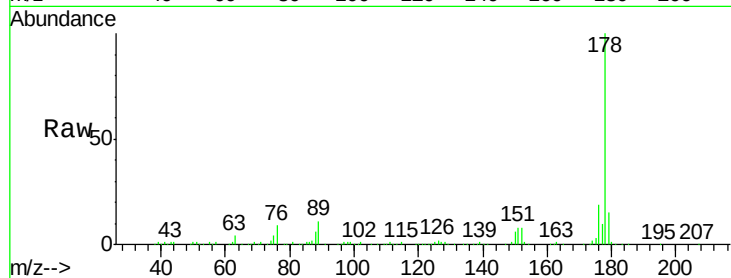




#71
 Anthracene
 Concen: 6.294 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF102005.D
 Acq: 11 Jan 2018 3:03

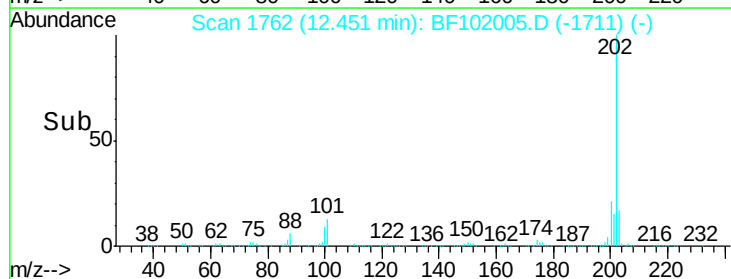
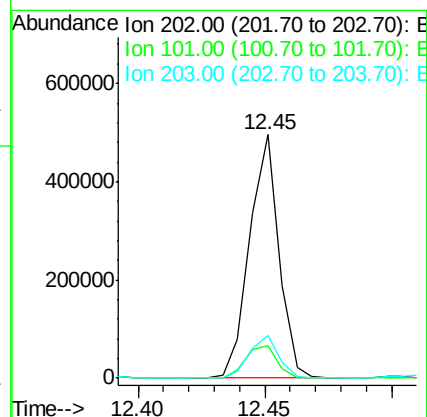
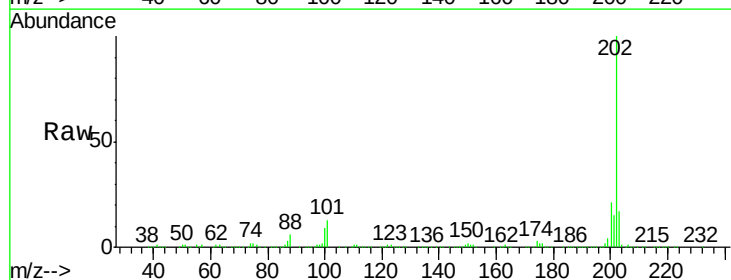
Instrument :
 BNA_F
 ClientSampleId :
 WC-50-02

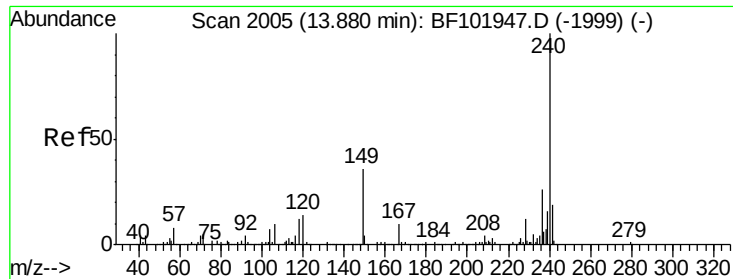
Tot Ion:178 Resp: 174270
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.4 23.2
 179 15.4 12.6 19.0



#74
 Fluoranthene
 Concen: 14.836 ng
 RT: 12.45 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: BF102005.D
 Acq: 11 Jan 2018 3:03

Tgt Ion:202 Resp: 398461
 Ion Ratio Lower Upper
 202 100
 101 13.2 0.0 34.1
 203 17.4 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF102005.D

Acq: 11 Jan 2018 3:03

Instrument :

BNA_F

ClientSampleId :

WC-50-02

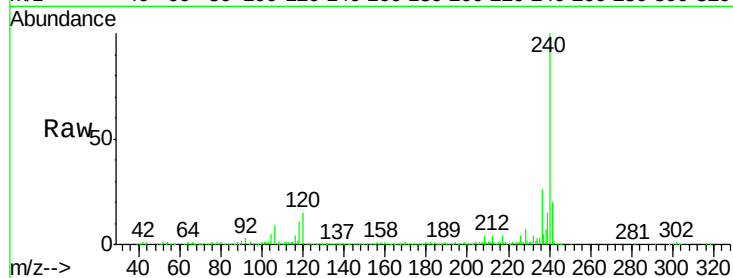
Tot Ion:240 Resp: 323945

Ion Ratio Lower Upper

240 100

120 14.8 9.5 14.3#

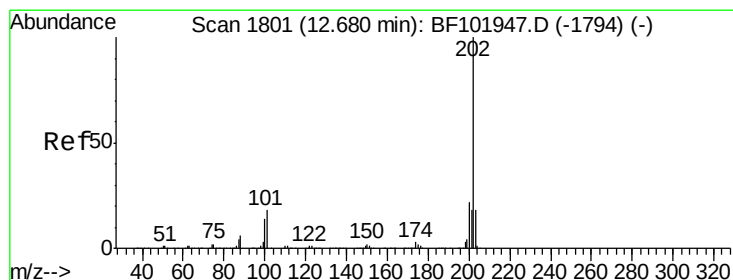
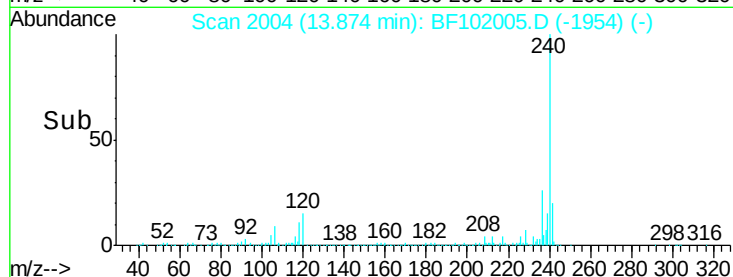
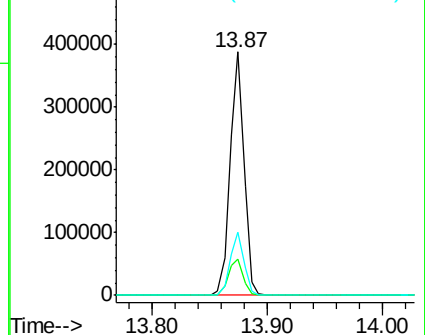
236 26.0 20.7 31.1



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: 13.040 ng

RT: 12.68 min Scan# 1801

Delta R.T. 0.00 min

Lab File: BF102005.D

Acq: 11 Jan 2018 3:03

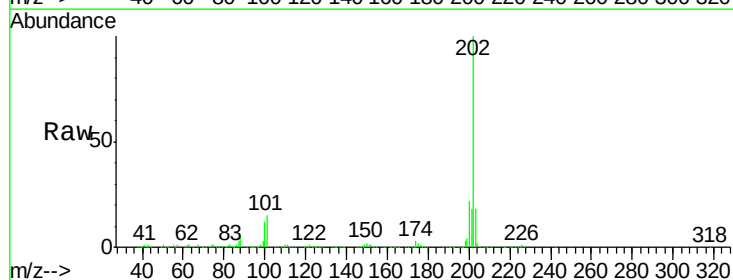
Tgt Ion:202 Resp: 373408

Ion Ratio Lower Upper

202 100

200 22.1 17.4 26.2

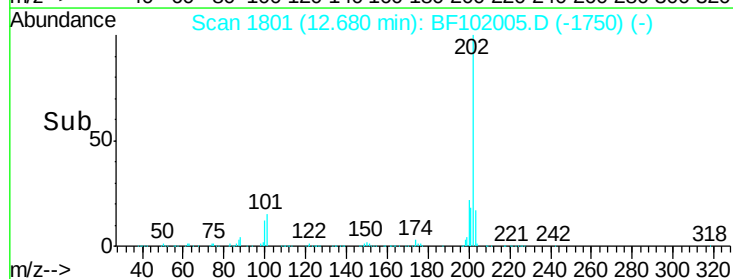
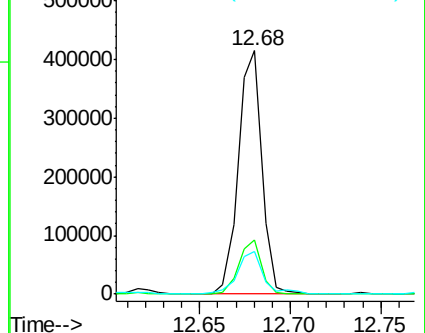
203 17.5 14.3 21.5

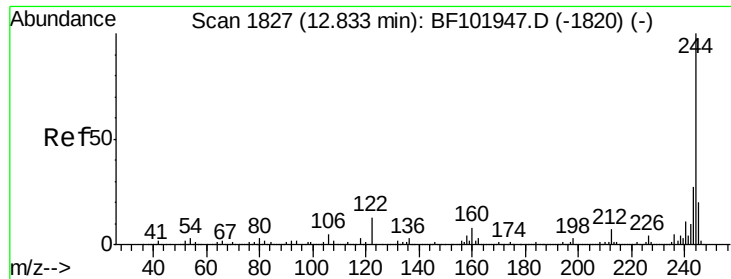


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

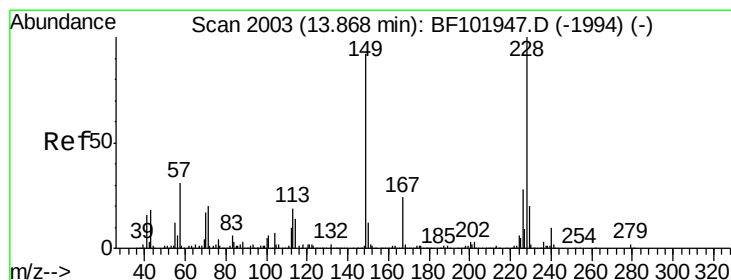
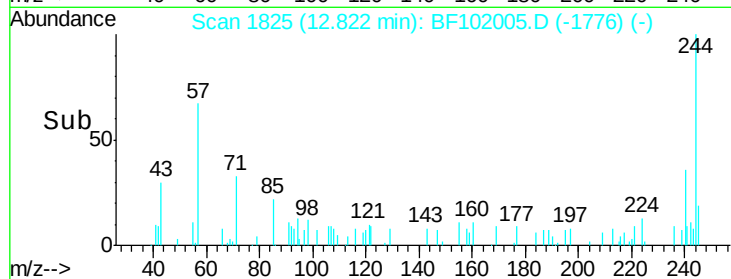
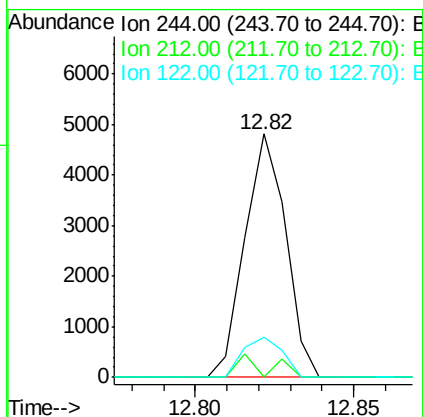
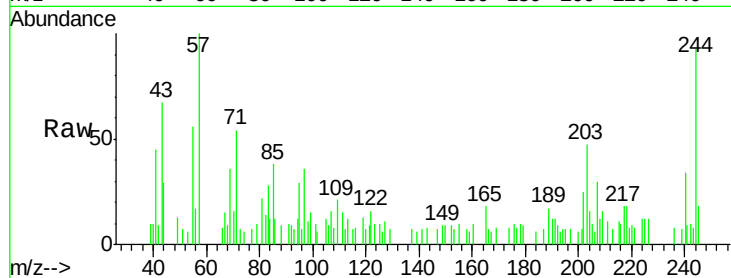




#78
 Terphenyl-d14
 Concen: 0.276 ng
 RT: 12.82 min Scan# 1825
 Delta R.T. -0.01 min
 Lab File: BF102005.D
 Acq: 11 Jan 2018 3:03

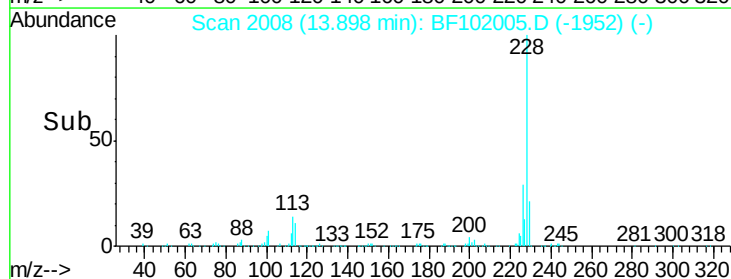
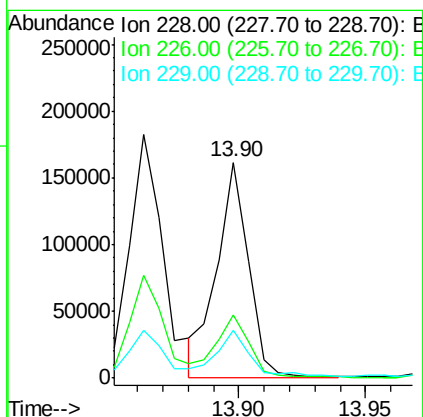
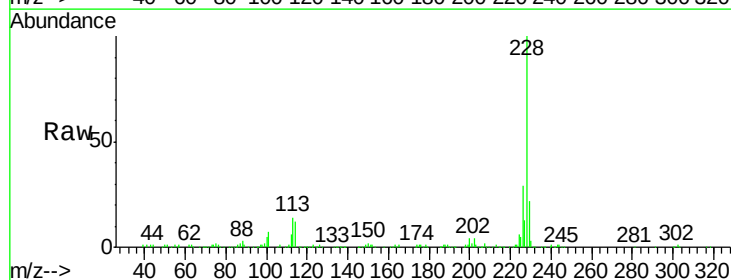
Instrument :
 BNA_F
 ClientSampled :
 WC-50-02

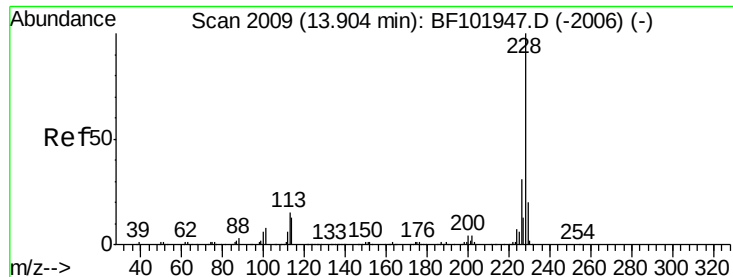
Tot Ion:244 Resp: 4299
 Ion Ratio Lower Upper
 244 100
 212 0.0 5.4 8.0#
 122 16.7 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 6.727 ng
 RT: 13.90 min Scan# 2008
 Delta R.T. 0.03 min
 Lab File: BF102005.D
 Acq: 11 Jan 2018 3:03

Tgt Ion:228 Resp: 139032
 Ion Ratio Lower Upper
 228 100
 226 29.2 22.6 33.8
 229 21.9 15.8 23.6

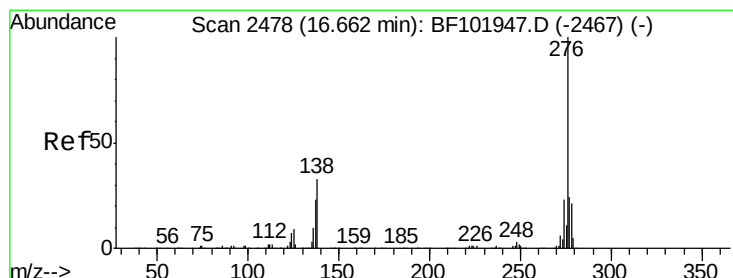
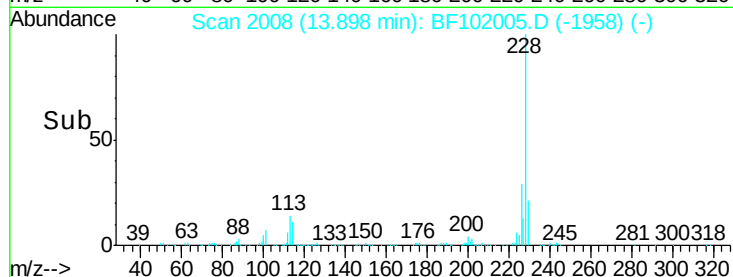
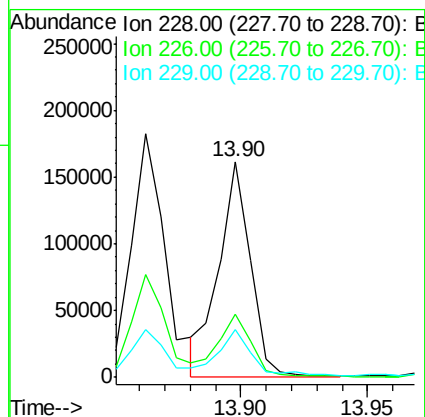
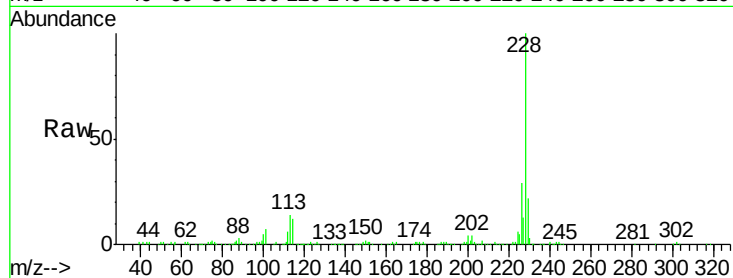




#82
Chrysene
Concen: 6.451 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

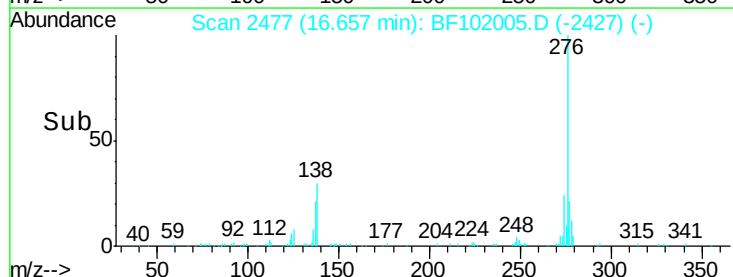
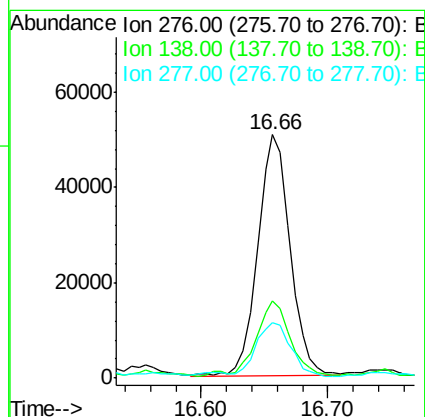
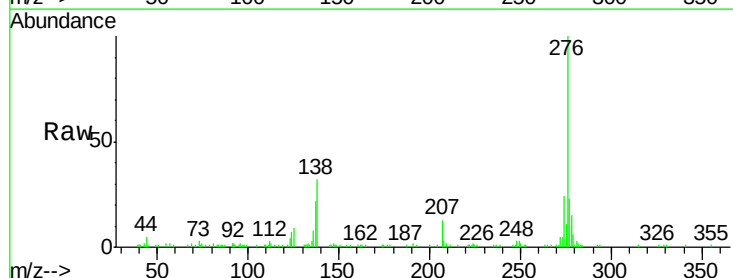
Instrument :
BNA_F
ClientSampleId :
WC-50-02

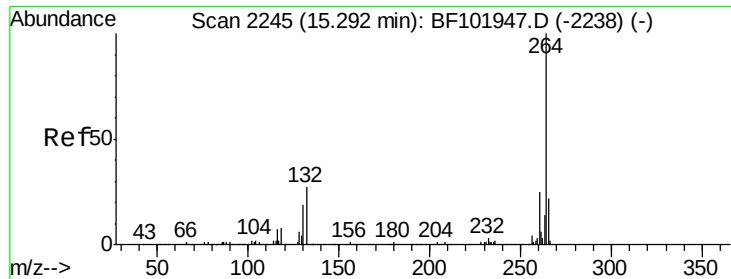
Tot Ion:228 Resp: 139032
Ion Ratio Lower Upper
228 100
226 29.2 25.0 37.6
229 21.9 16.2 24.4



#85
Indeno(1,2,3-cd)pyrene
Concen: 5.704 ng
RT: 16.66 min Scan# 2477
Delta R.T. -0.01 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Tgt Ion:276 Resp: 89479
Ion Ratio Lower Upper
276 100
138 31.7 25.0 37.6
277 24.3 20.1 30.1



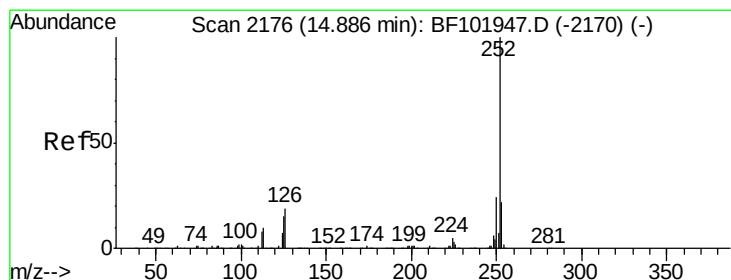
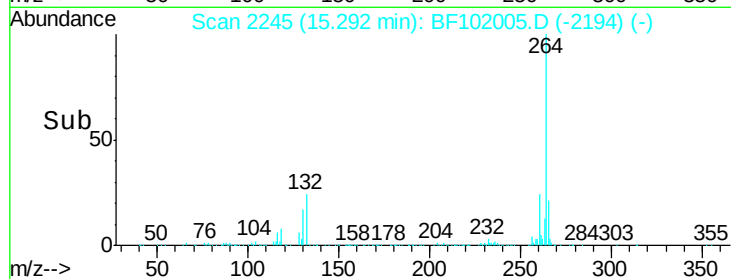
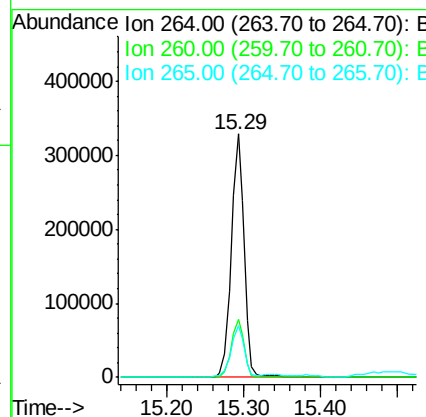
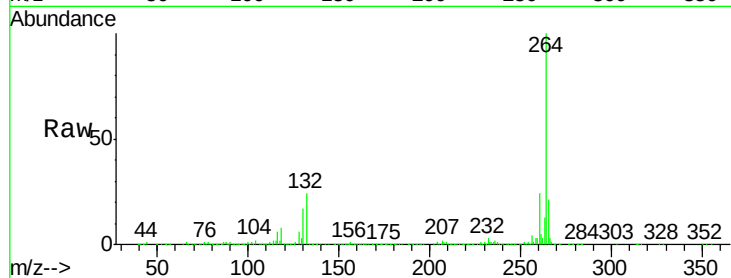


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. 0.00 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Instrument :
BNA_F
ClientSampleId :
WC-50-02

Tot Ion:264 Resp: 383093

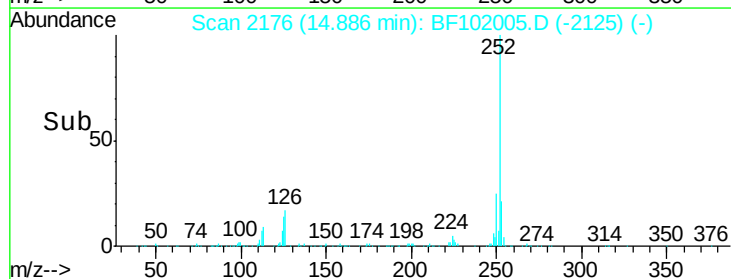
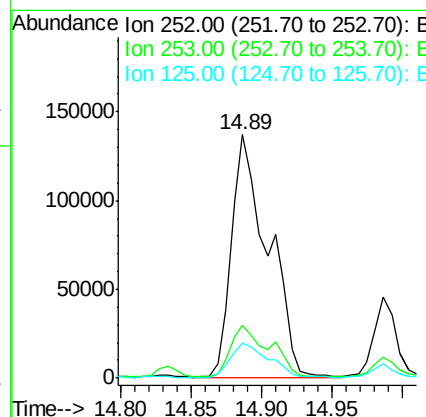
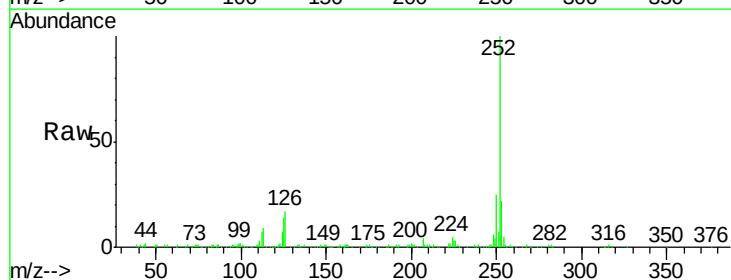
Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	21.0	17.5	26.3

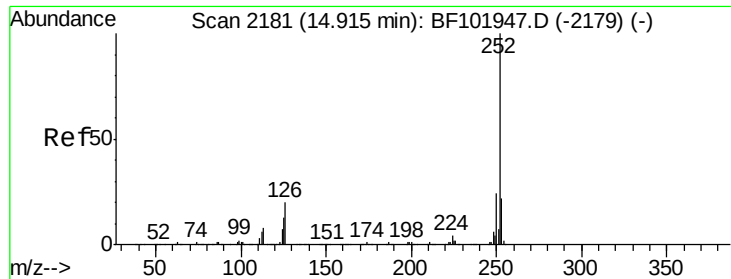


#87
Benzo(b)fluoranthene
Concen: 9.866 ng
RT: 14.89 min Scan# 2176
Delta R.T. 0.00 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Tgt Ion:252 Resp: 246447

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.6
125	14.1	9.0	13.6#

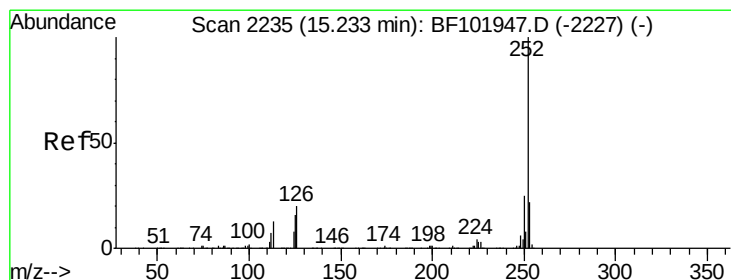
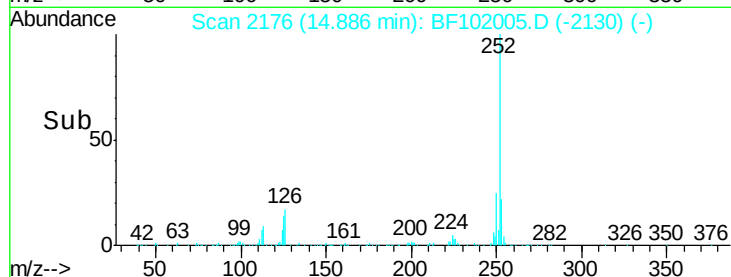
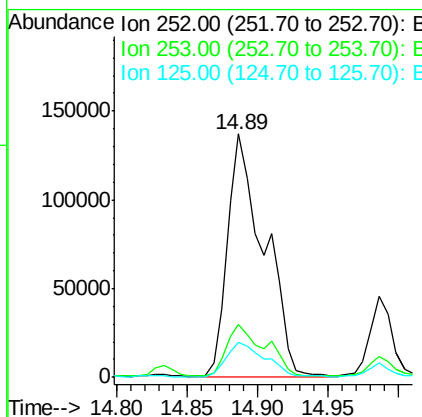
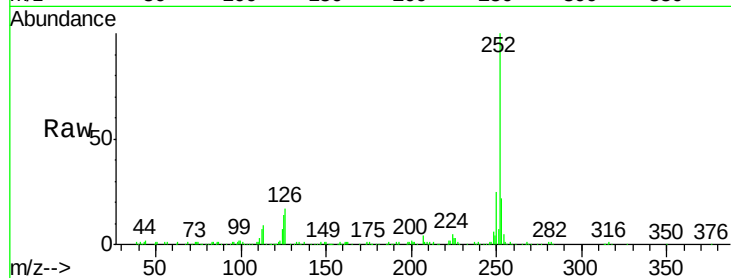




#88
Benzo(k)fluoranthene
Concen: 10.228 ng
RT: 14.89 min Scan# 2176
Delta R.T. -0.03 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

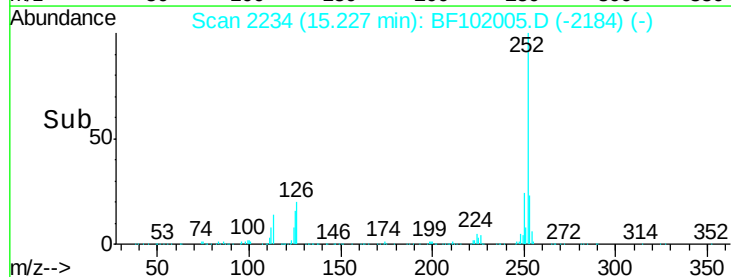
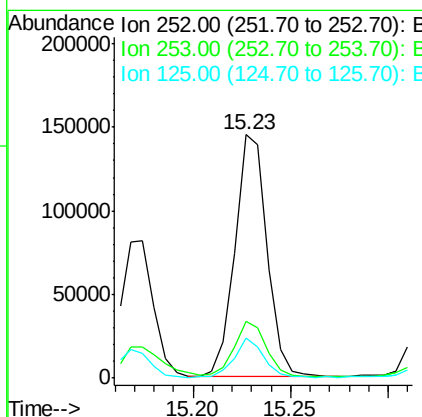
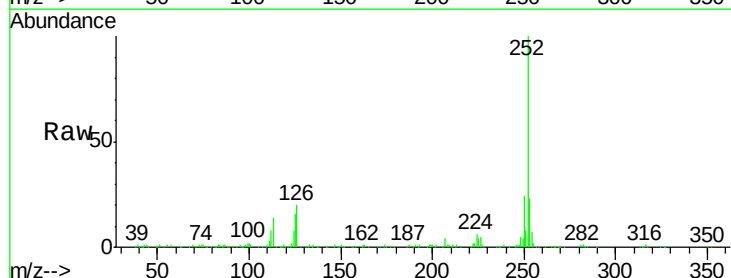
Instrument :
BNA_F
ClientSampleId :
WC-50-02

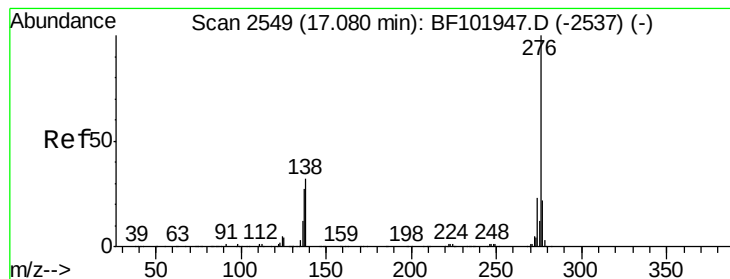
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9
125	14.1	10.2	15.2



#89
Benzo(a)pyrene
Concen: 7.341 ng
RT: 15.23 min Scan# 2234
Delta R.T. -0.01 min
Lab File: BF102005.D
Acq: 11 Jan 2018 3:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	16.3	9.8	14.6





#91

Benzo(a,h,i)perylene

Concen: 4.862 ng

RT: 17.07 min Scan# 2547

Delta R.T. -0.01 min

Lab File: BF102005.D

Acq: 11 Jan 2018 3:03

Instrument :

BNA_F

ClientSampleId :

WC-50-02

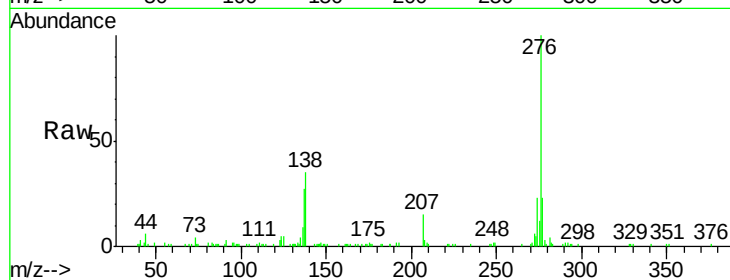
Tot Ion: 276 Resp: 87857

Ion Ratio Lower Upper

276 100

277 22.7 17.9 26.9

138 34.8 21.8 32.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

