

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
 Data File : BF104217.D
 Acq On : 4 Apr 2018 9:46
 Operator : JU/SJ
 Sample : J2176-02DL 250X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 04 10:47:46 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 03 15:22:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	90071	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	450275	20.00	ng	0.00
38) Acenaphthene-d10	9.99	164	208894	20.00	ng	-0.01
63) Phenanthrene-d10	11.49	188	357747	20.00	ng	0.00
75) Chrysene-d12	14.14	240	214436	20.00	ng	-0.01
86) Perylene-d12	15.69	264	212954	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.79	99	132	0.02	ng	0.19
23) Nitrobenzene-d5	7.60	82	115	0.02	ng	0.07
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.31	172	4103	0.31	ng	0.00
78) Terphenyl-d14	13.07	244	4313	0.46	ng	0.00

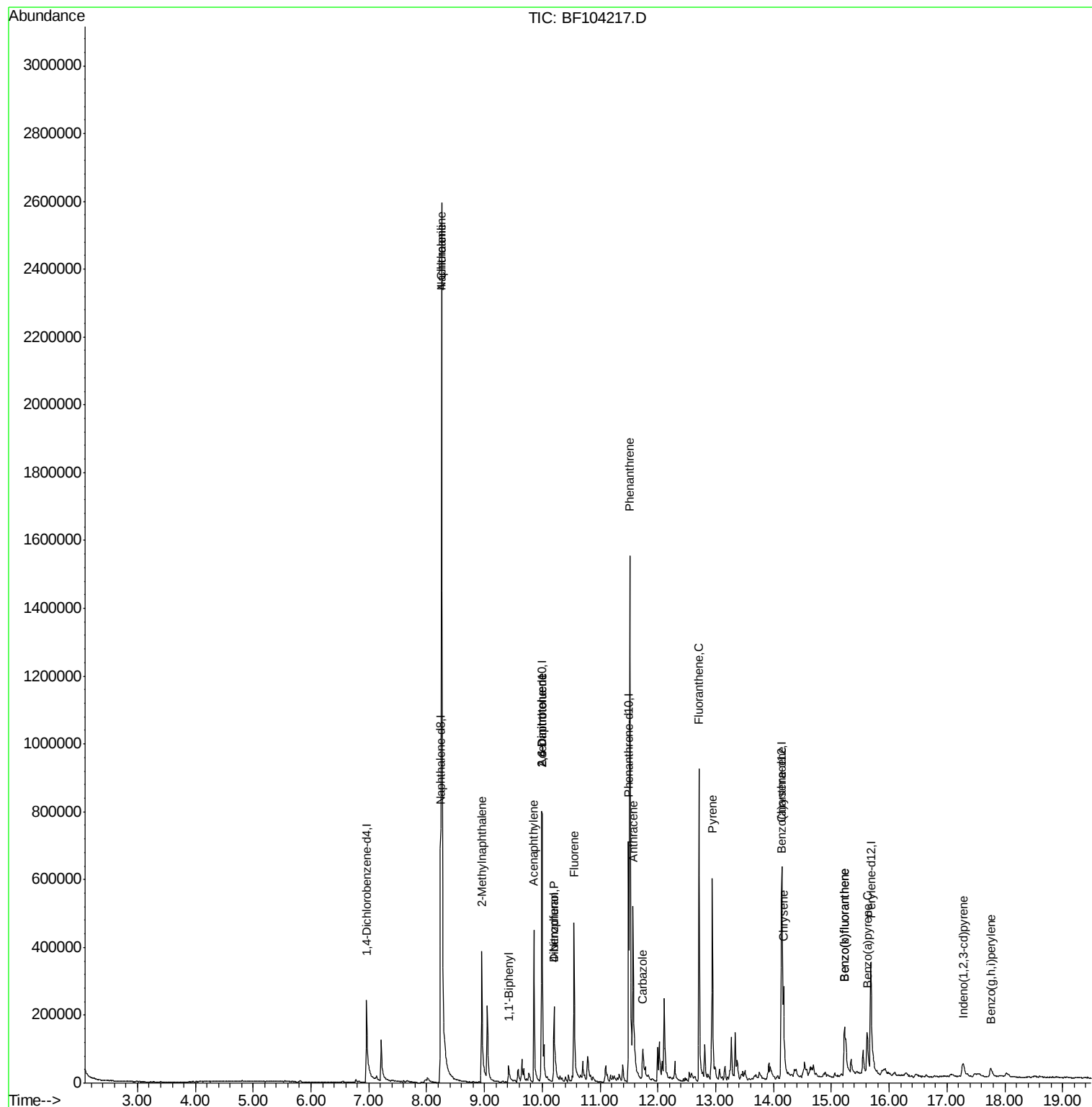
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.77	77	451	Below Cal		# 1
31) Naphthalene	8.26	128	1544297	70.203	ng	99
33) 4-Chloroaniline	8.26	127	203822	21.978	ng	# 32
37) 2-Methylnaphthalene	8.95	142	173561	11.978	ng	99
45) 1,1'-Biphenyl	9.42	154	43902	2.449	ng	97
48) Acenaphthylene	9.86	152	242765	11.331	ng	99
50) 2,6-Dinitrotoluene	10.00	165	27056	7.625	ng	# 25
54) Dibenzofuran	10.20	168	168400	9.304	ng	97
55) 4-Nitrophenol	10.20	139	60174	24.604	ng	# 9
56) 2,4-Dinitrotoluene	10.00	165	27056	5.976	ng	# 23
57) Fluorene	10.55	166	207036	13.867	ng	99
70) Phenanthrene	11.52	178	707917	36.549	ng	99
71) Anthracene	11.57	178	358421	17.716	ng	99
72) Carbazole	11.74	167	106529	5.517	ng	99
74) Fluoranthene	12.71	202	448757	21.797	ng	98
77) Pyrene	12.94	202	312141	20.249	ng	99
80) Benzo(a)anthracene	14.13	228	128013	9.541	ng	97
82) Chrysene	14.17	228	104971	7.987	ng	97
85) Indeno(1,2,3-cd)pyrene	17.28	276	41061	3.015	ng	96
87) Benzo(b)fluoranthene	15.23	252	150398	11.605	ng	# 96
88) Benzo(k)fluoranthene	15.23	252	150398	12.319	ng	98
89) Benzo(a)pyrene	15.62	252	91540	7.622	ng	97
91) Benzo(g,h,i)perylene	17.76	276	32609	2.932	ng	91

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

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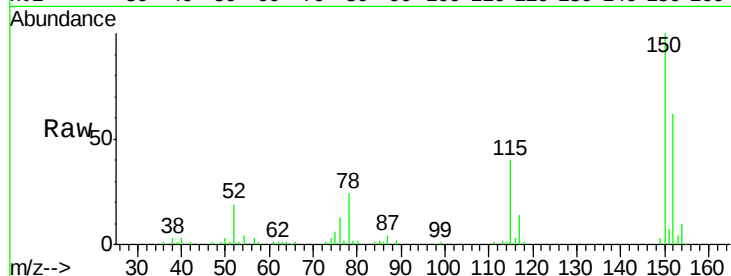


#1

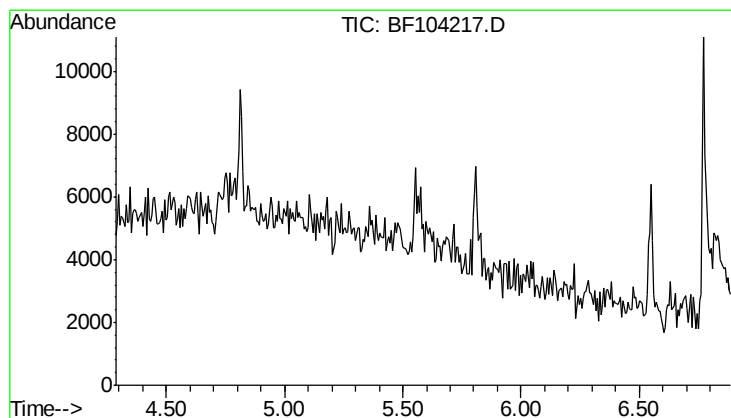
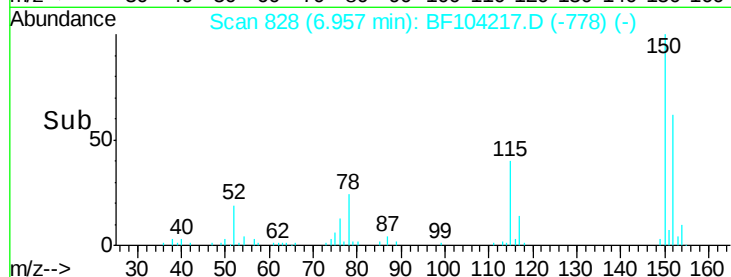
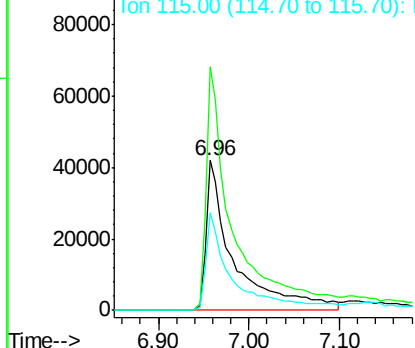
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 828
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 90071
Ion Ratio Lower Upper
152 100
150 162.3 124.6 186.8
115 64.7 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

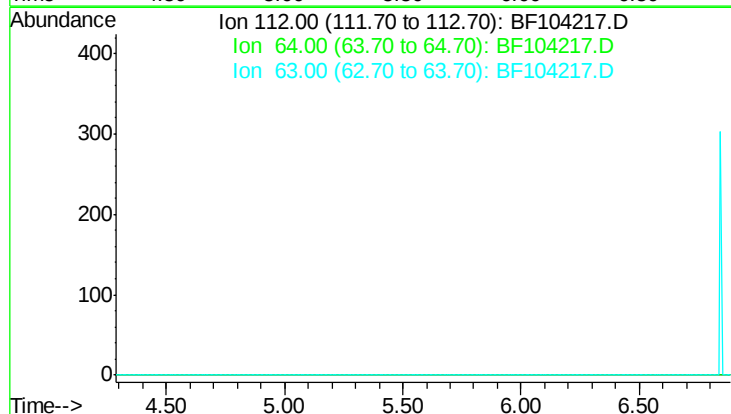


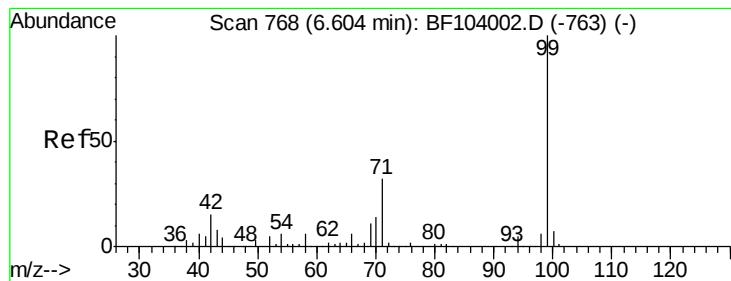
#5

2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.59 min

Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion: 112
Sig Exp Ratio
112 100
64 59.9
63 29.6





#7

Phenol-d6

Concen: 0.019 ng

RT: 6.79 min Scan# 800

Delta R.T. 0.19 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

Instrument :

BNA_F

ClientSampled :

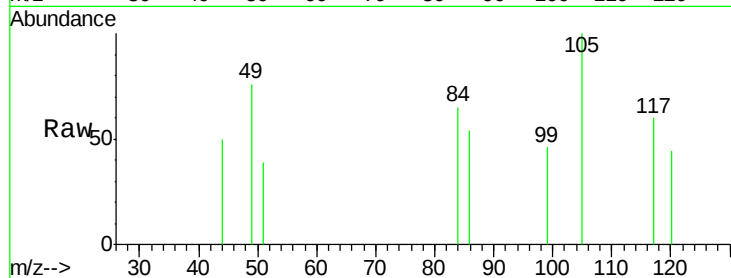
Tot Ion: 99 Resp: 132

Ion Ratio Lower Upper

99 100

42 0.0 14.5 21.7#

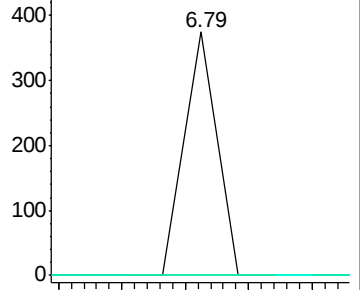
71 0.0 25.4 38.0#



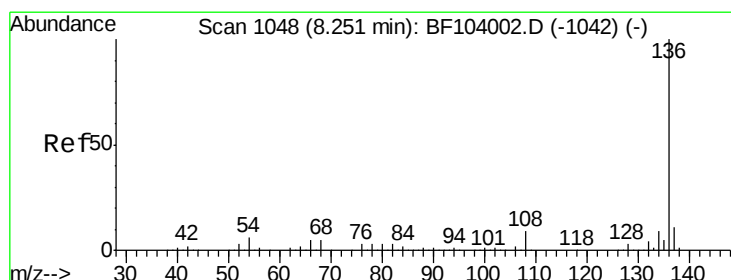
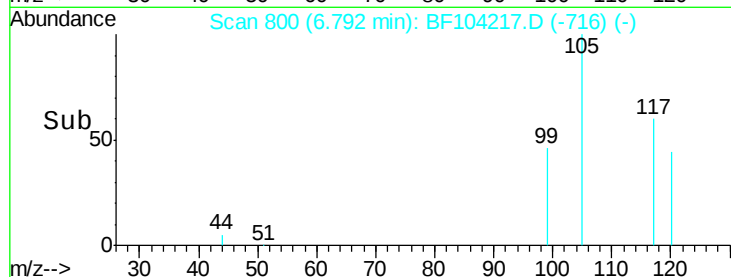
Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

Tgt Ion: 136 Resp: 450275

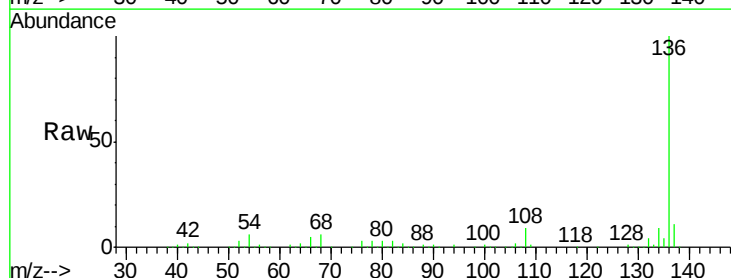
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 6.4 6.6 9.8#

68 5.9 5.0 7.4

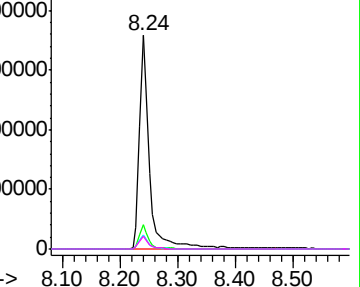


Abundance Ion 136.00 (135.70 to 136.70): E

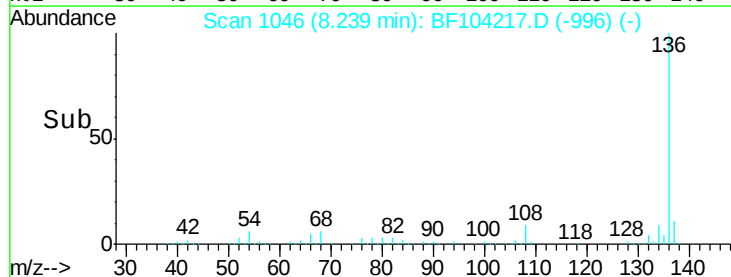
Ion 137.00 (136.70 to 137.70): E

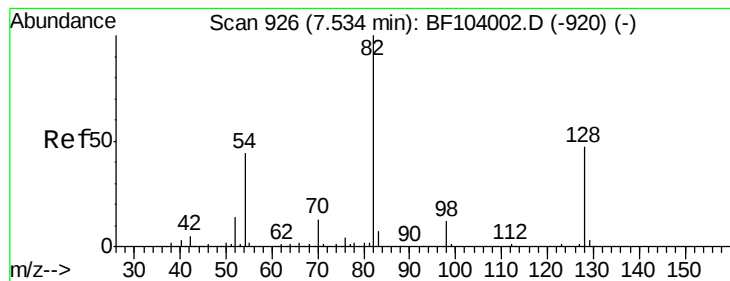
Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



Time-->





#23

Nitrobenzene-d5

Concen: 0.016 ng

RT: 7.60 min Scan# 938

Delta R.T. 0.07 min

Lab File: BF104217.D

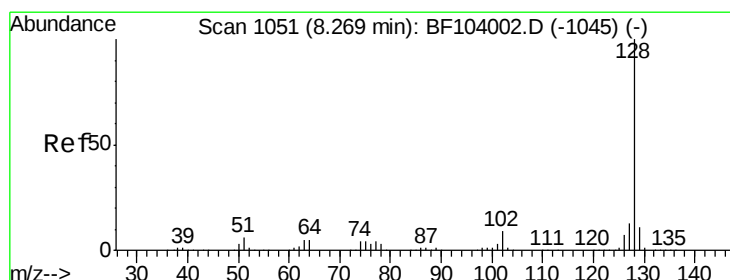
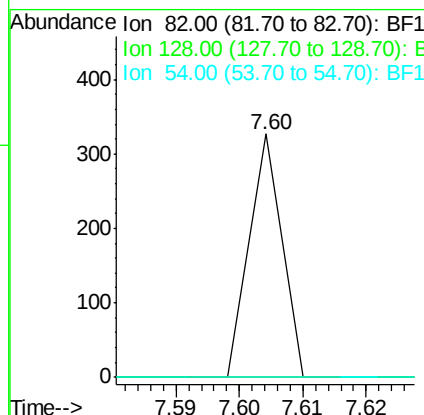
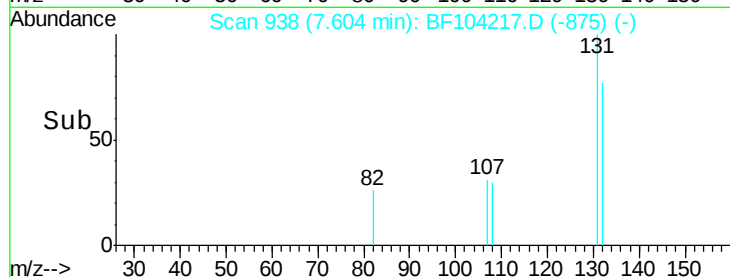
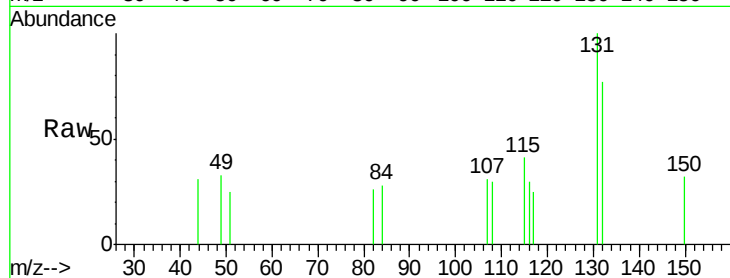
Acq: 4 Apr 2018 9:46

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	82	Resp:	115
Ion	Ratio	Lower	Upper
82	100		
128	0.0	36.1	54.1#
54	0.0	41.4	62.2#



#31

Naphthalene

Concen: 70.203 ng

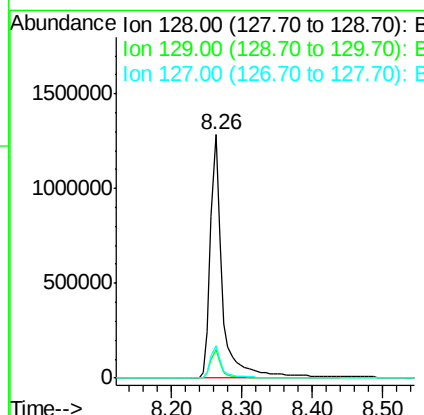
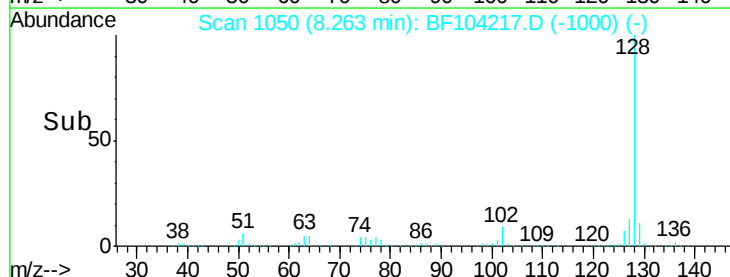
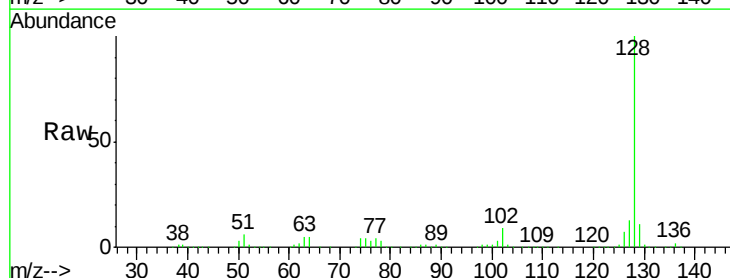
RT: 8.26 min Scan# 1050

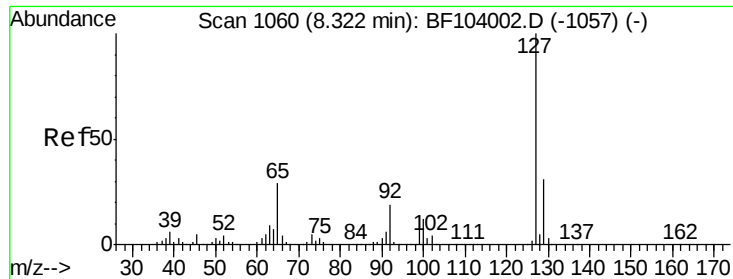
Delta R.T. -0.01 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

Tgt Ion:	128	Resp:	1544297
Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	13.4	10.9	16.3

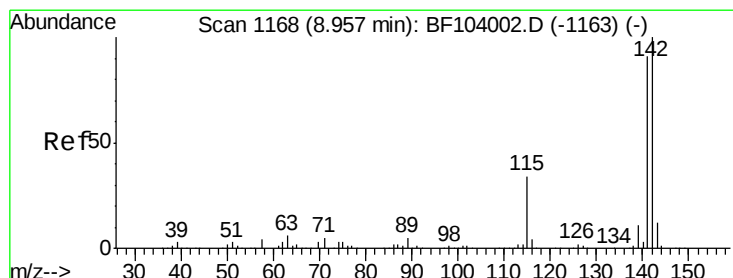
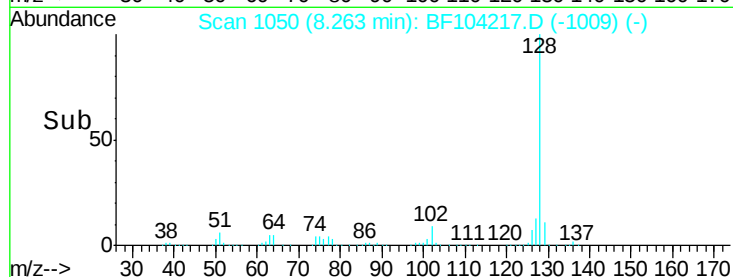
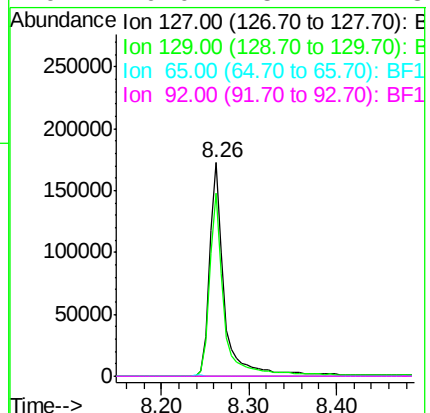
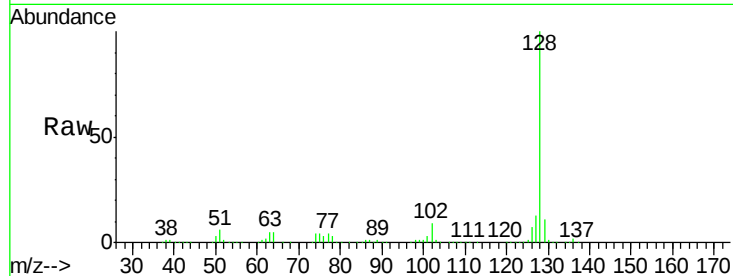




#33
4-Chloroaniline
Concen: 21.978 ng
RT: 8.26 min Scan# 1050
Delta R.T. -0.06 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

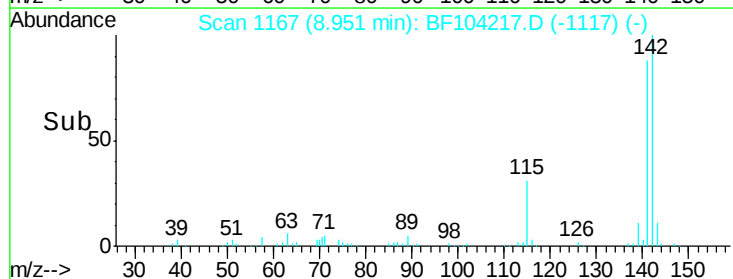
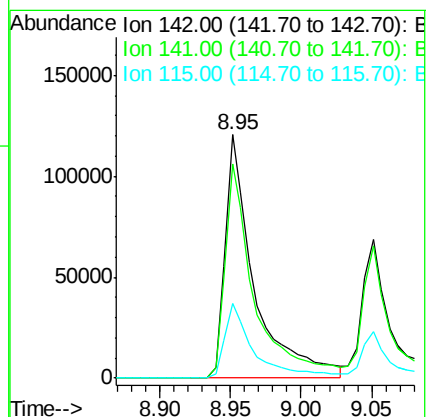
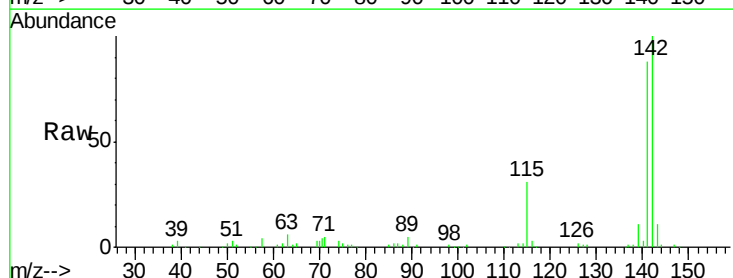
Instrument :
BNA_F
ClientSampleId :

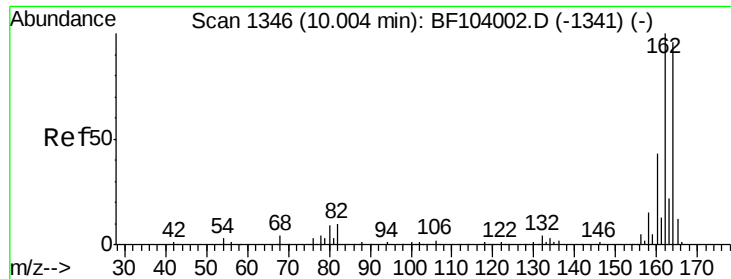
Tot Ion:127	Resp:	203822
Ion Ratio	Lower	Upper
127	100	
129	85.5	25.9 38.9#
65	0.0	25.0 37.4#
92	0.0	15.2 22.8#



#37
2-Methylnaphthalene
Concen: 11.978 ng
RT: 8.95 min Scan# 1167
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion:142	Resp:	173561
Ion Ratio	Lower	Upper
142	100	
141	88.0	70.8 106.2
115	30.7	26.1 39.1

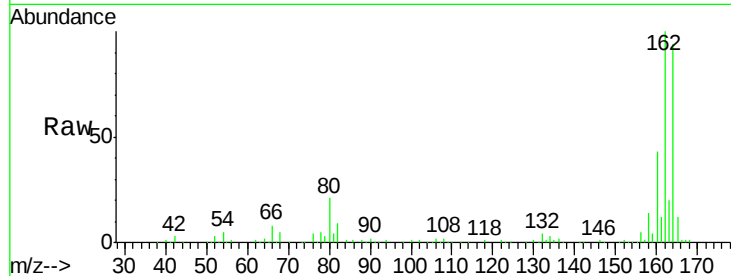




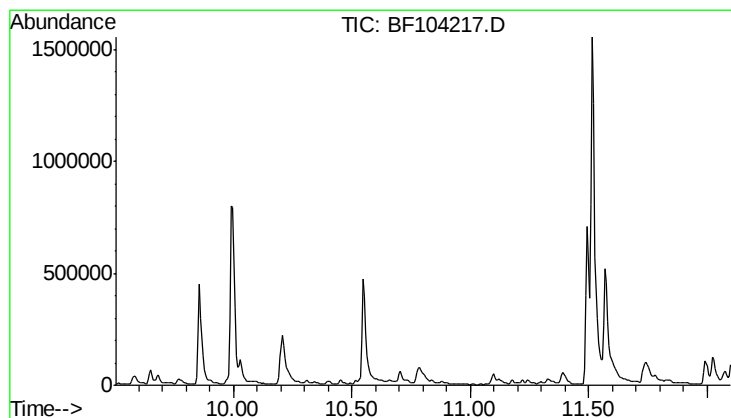
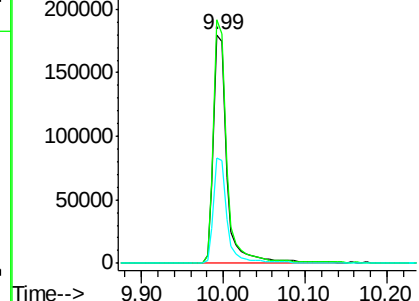
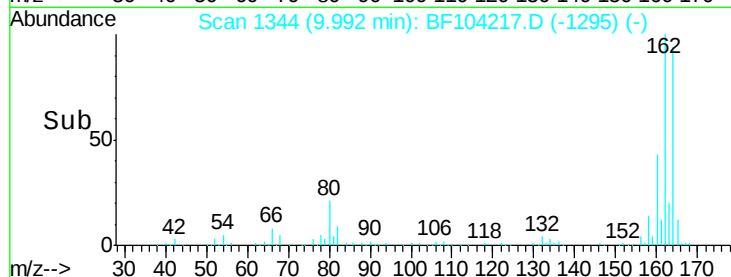
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.99 min Scan# 1344
 Delta R.T. -0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 208894
 Ion Ratio Lower Upper
 164 100
 162 106.4 86.1 129.1
 160 45.9 38.3 57.5



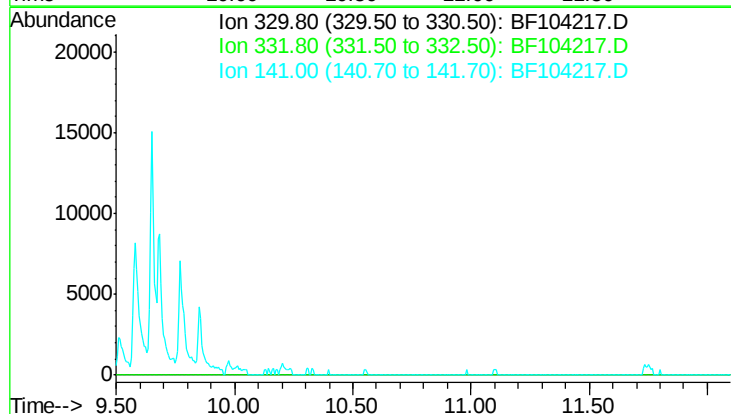
Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

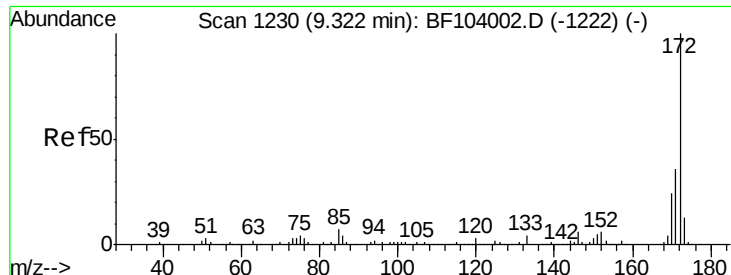


#41
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 Expected RT: 10.80 min

Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Tgt Ion: 330
 Sig Exp Ratio
 330 100
 332 96.3
 141 37.4

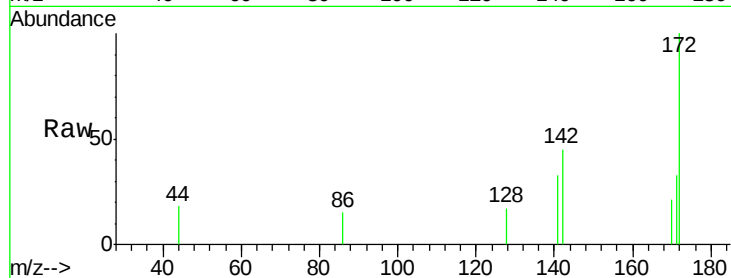




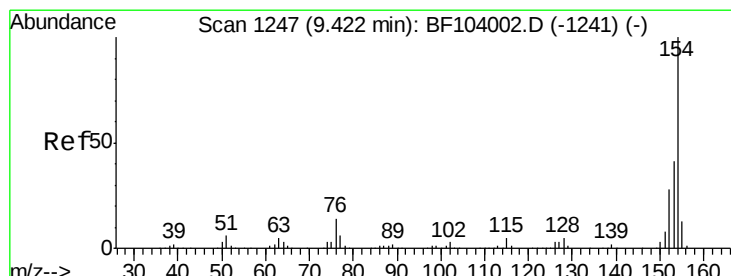
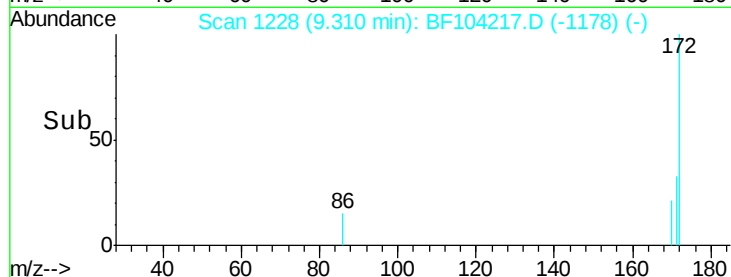
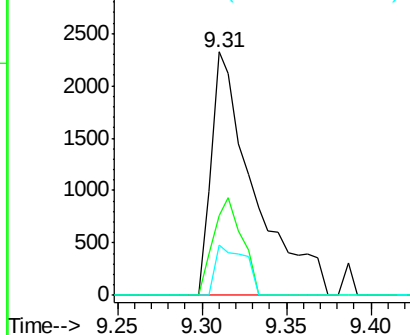
#44
 2-Fluorobiphenyl
 Concen: 0.310 ng
 RT: 9.31 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 4103
 Ion Ratio Lower Upper
 172 100
 171 33.0 29.7 44.5
 170 20.9 19.6 29.4

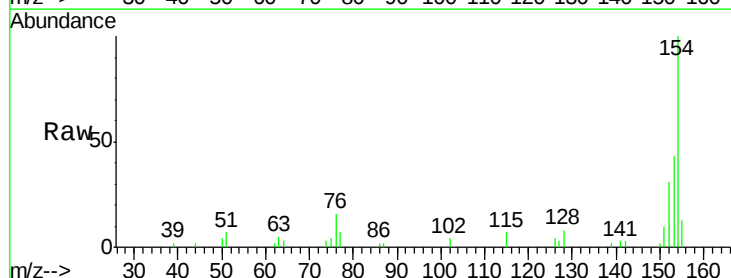


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

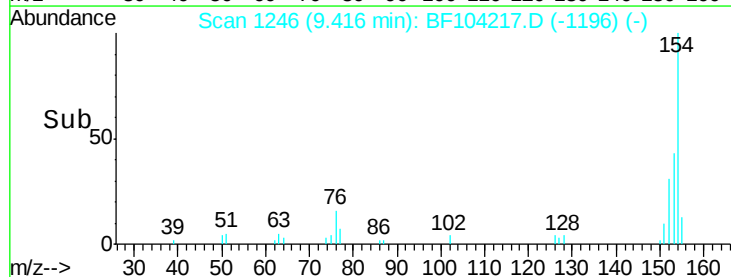
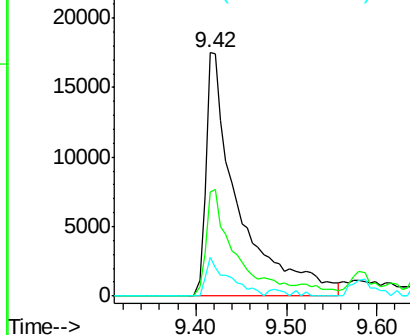


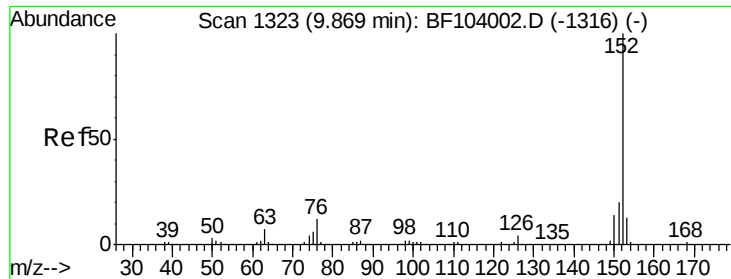
#45
 1,1'-Biphenyl
 Concen: 2.449 ng
 RT: 9.42 min Scan# 1246
 Delta R.T. -0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Tgt Ion:154 Resp: 43902
 Ion Ratio Lower Upper
 154 100
 153 42.8 21.3 61.3
 76 15.9 0.0 34.0



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1





#48

Acenaphthylene

Concen: 11.331 ng

RT: 9.86 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

Instrument :

BNA_F

ClientSampleId :

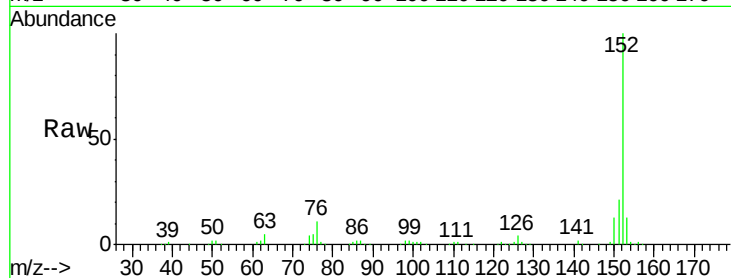
Tot Ion:152 Resp: 242765

Ion Ratio Lower Upper

152 100

151 20.7 16.3 24.5

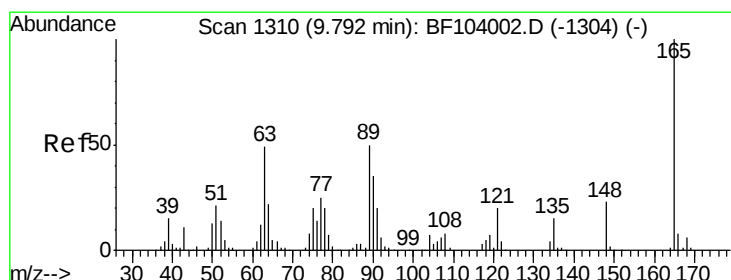
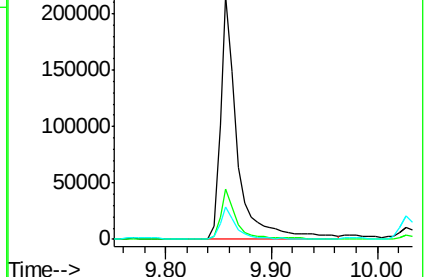
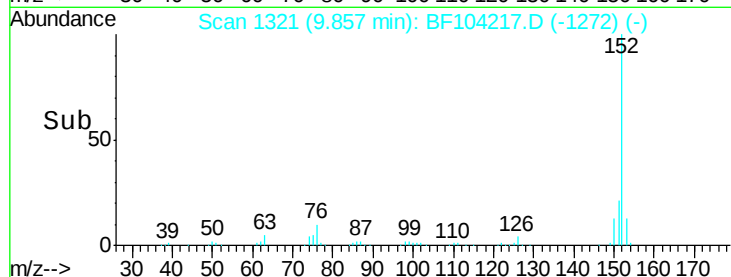
153 13.1 10.7 16.1



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: 7.625 ng

RT: 10.00 min Scan# 1345

Delta R.T. 0.21 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

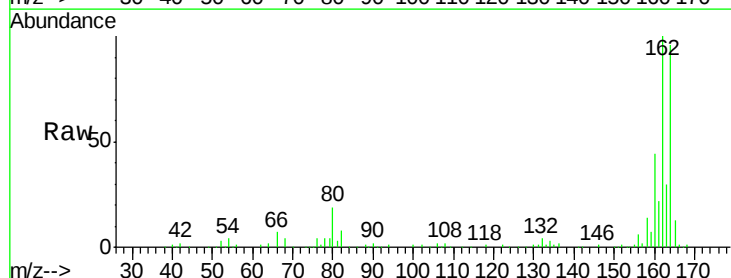
Tgt Ion:165 Resp: 27056

Ion Ratio Lower Upper

165 100

63 0.0 44.7 67.1#

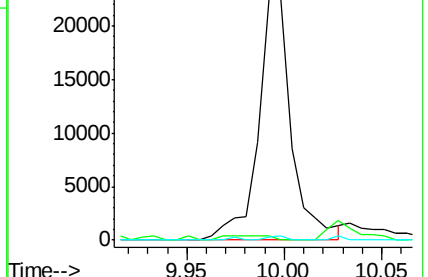
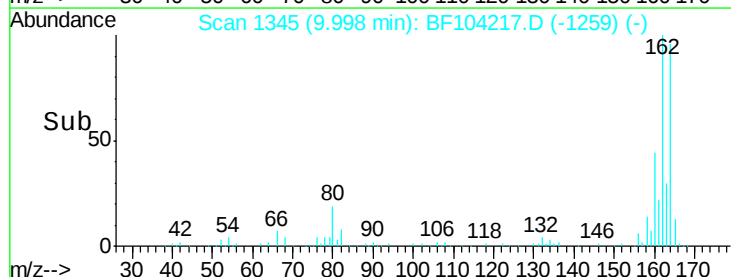
89 1.5 44.0 66.0#

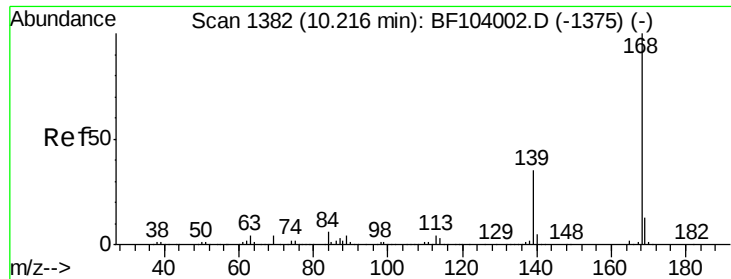


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

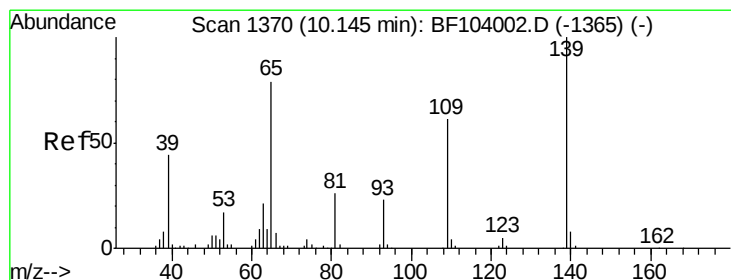
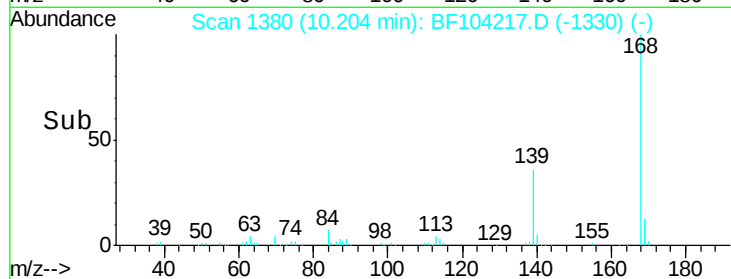
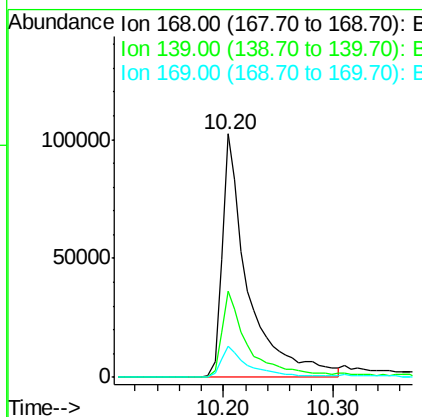
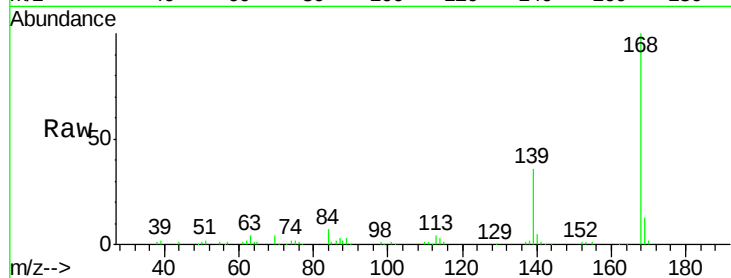




#54
Dibenzenofuran
Concen: 9.304 ng
RT: 10.20 min Scan# 1380
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

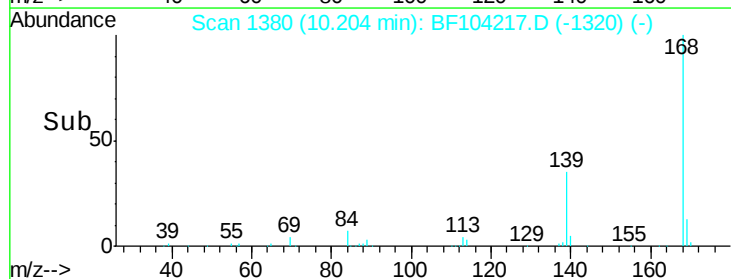
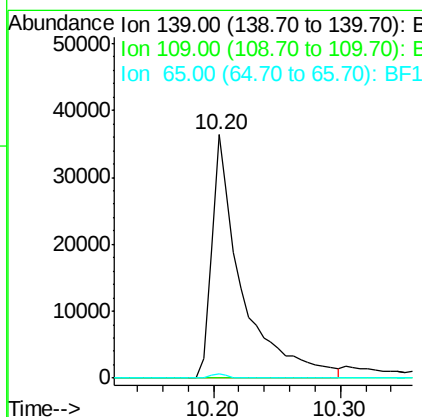
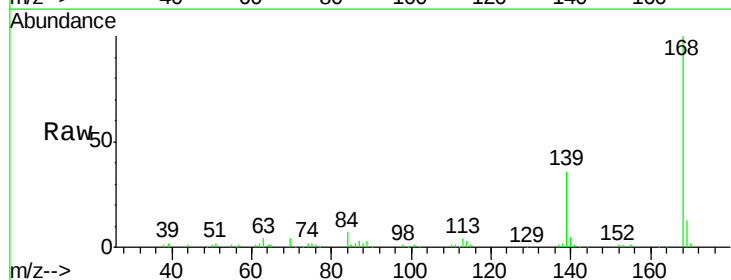
Instrument :
BNA_F
ClientSampled :

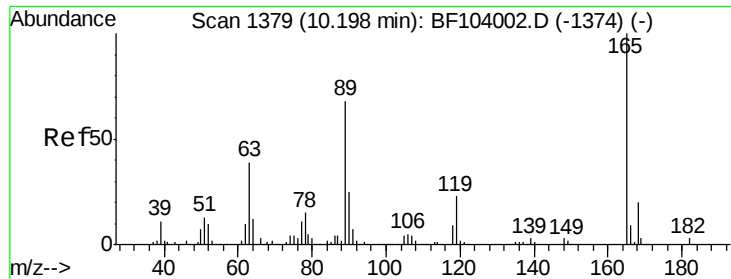
Tot Ion:168 Resp: 168400
Ion Ratio Lower Upper
168 100
139 35.5 30.1 45.1
169 12.8 10.9 16.3



#55
4-Nitrophenol
Concen: 24.604 ng
RT: 10.20 min Scan# 1380
Delta R.T. 0.05 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion:139 Resp: 60174
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 1.5 72.6 112.6#

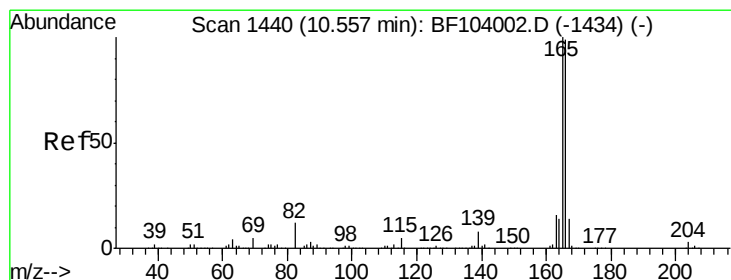
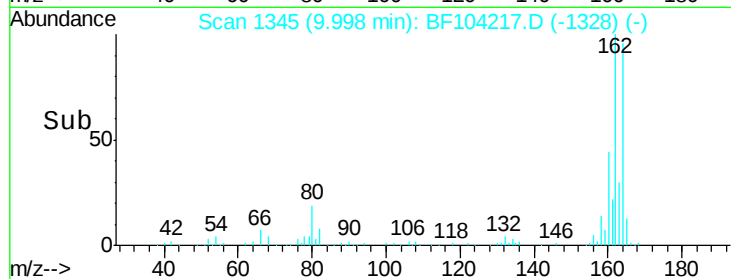
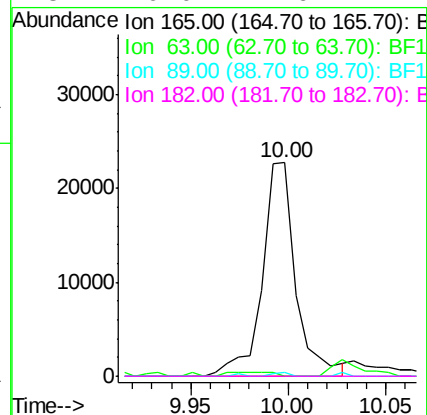
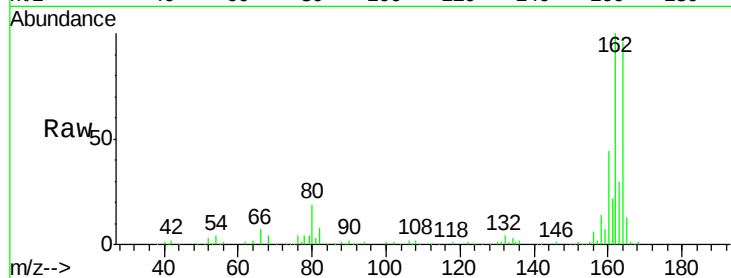




#56
2,4-Dinitrotoluene
Concen: 5.976 ng
RT: 10.00 min Scan# 1345
Delta R.T. -0.20 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

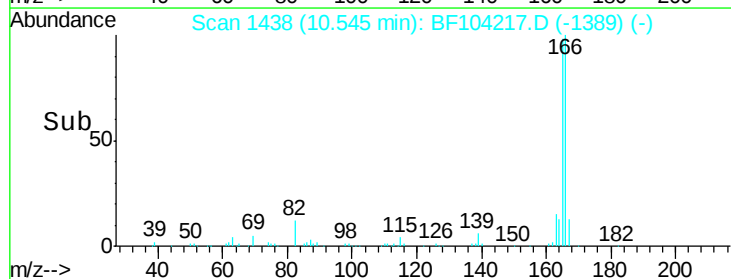
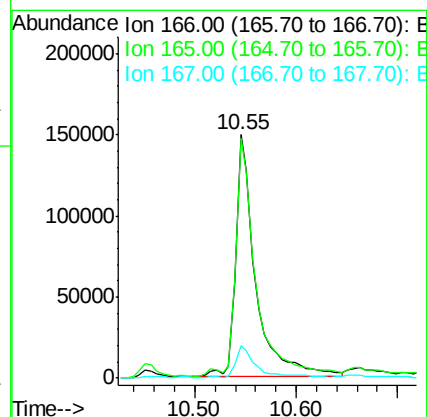
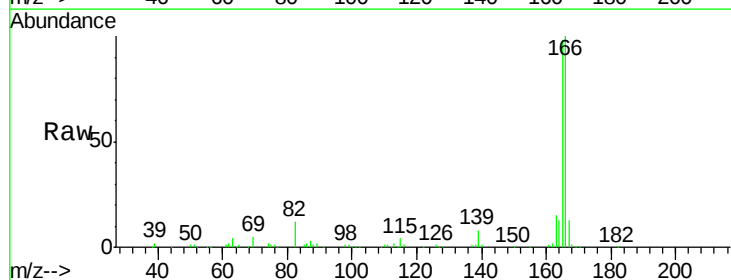
Instrument :
BNA_F
ClientSampleId :

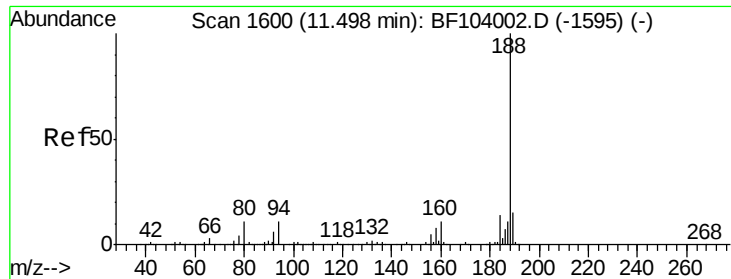
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.4	54.6#
89	1.5	57.8	86.6#
182	0.0	1.6	2.4#



#57
Fluorene
Concen: 13.867 ng
RT: 10.55 min Scan# 1438
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.3	79.8	119.8
167	13.5	10.6	16.0

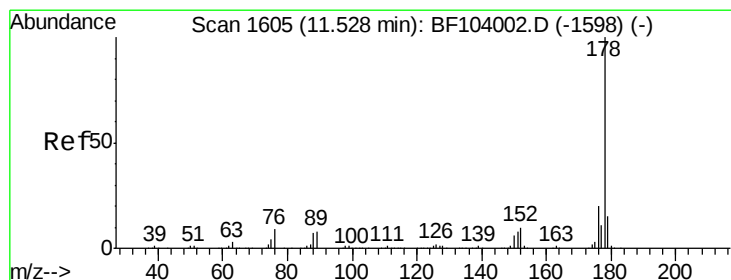
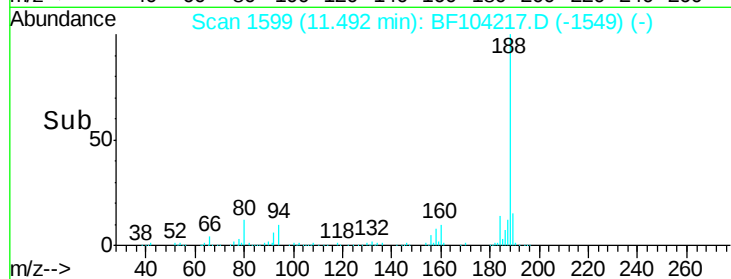
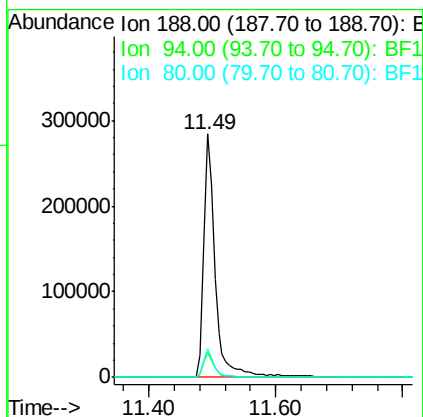
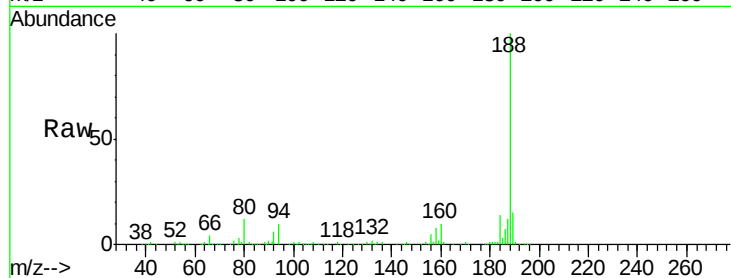




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

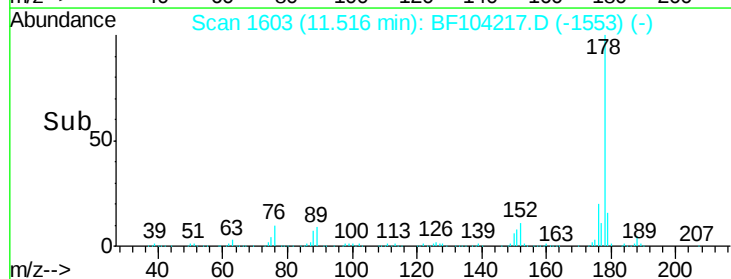
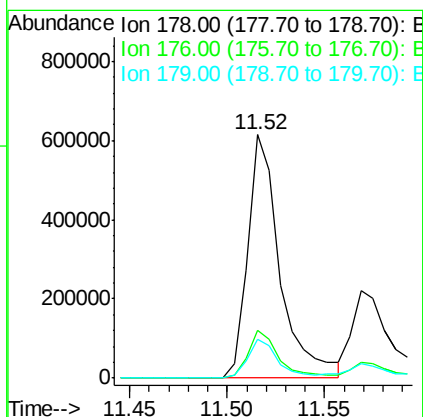
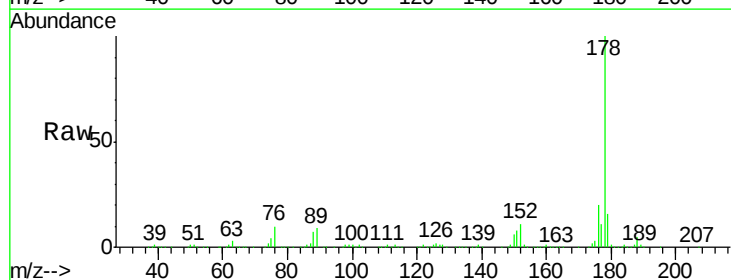
Instrument :
BNA_F
ClientSampleId :

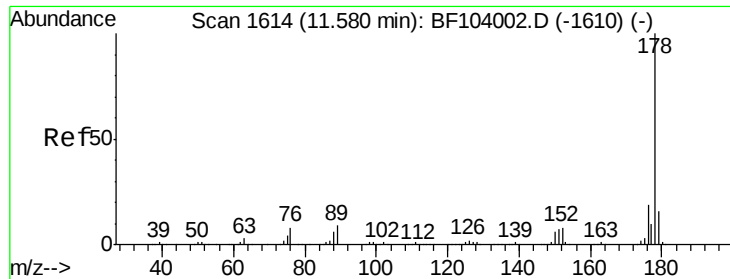
Tot Ion:188 Resp: 357747
Ion Ratio Lower Upper
188 100
94 10.4 8.5 12.7
80 11.5 9.2 13.8



#70
Phenanthrene
Concen: 36.549 ng
RT: 11.52 min Scan# 1603
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion:178 Resp: 707917
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.8 13.0 19.6

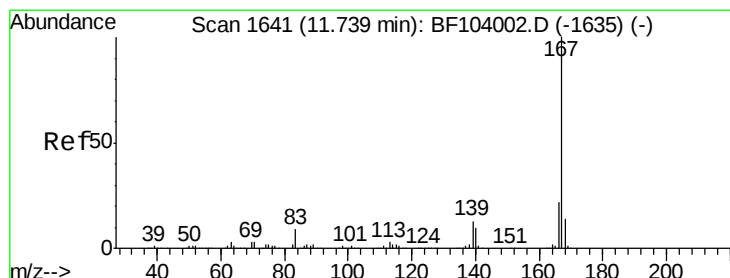
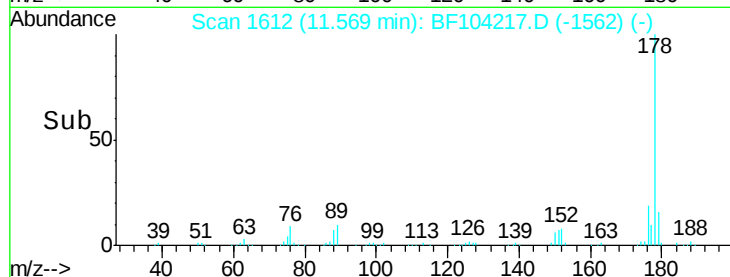
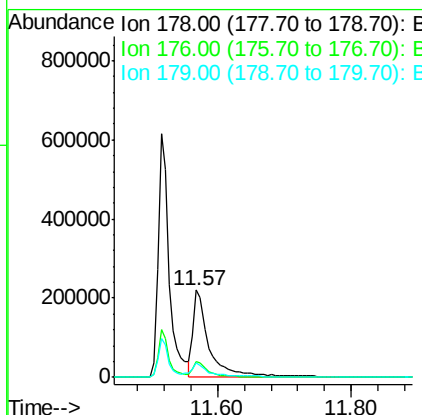
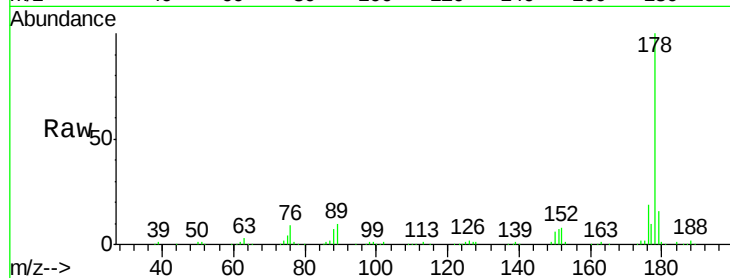




#71
 Anthracene
 Concen: 17.716 ng
 RT: 11.57 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

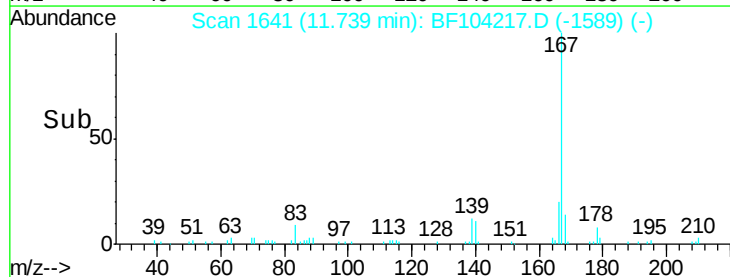
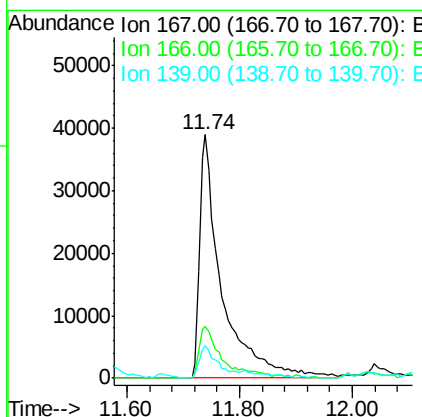
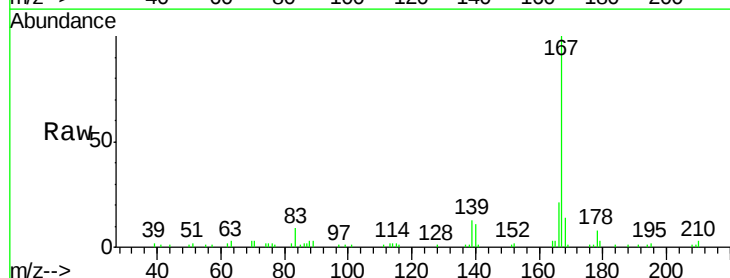
Instrument :
 BNA_F
 ClientSampleId :

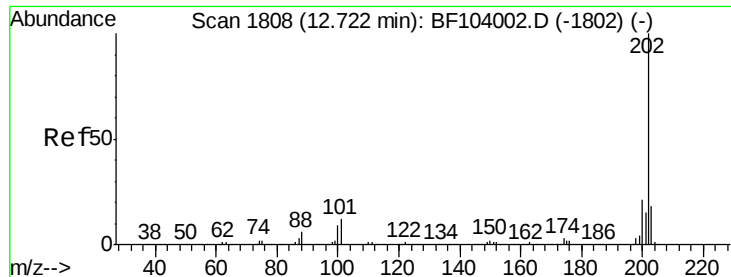
Tot Ion:178 Resp: 358421
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.4 23.2
 179 16.1 12.6 19.0



#72
 Carbazole
 Concen: 5.517 ng
 RT: 11.74 min Scan# 1641
 Delta R.T. 0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Tgt Ion:167 Resp: 106529
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.6 26.4
 139 13.3 10.9 16.3





#74

Fluoranthene

Concen: 21.797 ng

RT: 12.71 min Scan# 1806

Delta R.T. -0.01 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

Instrument :

BNA_F

ClientSampleId :

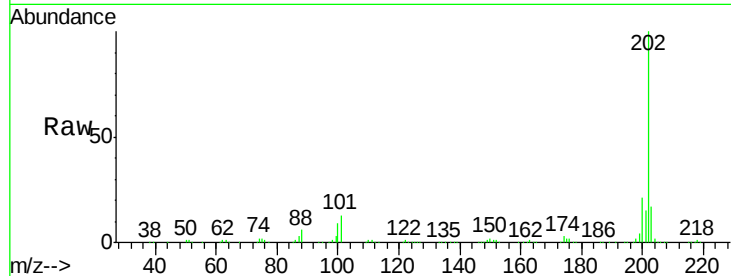
Tot Ion:202 Resp: 448757

Ion Ratio Lower Upper

202 100

101 13.0 0.0 34.1

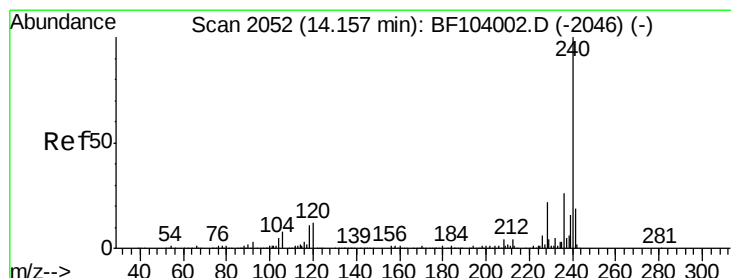
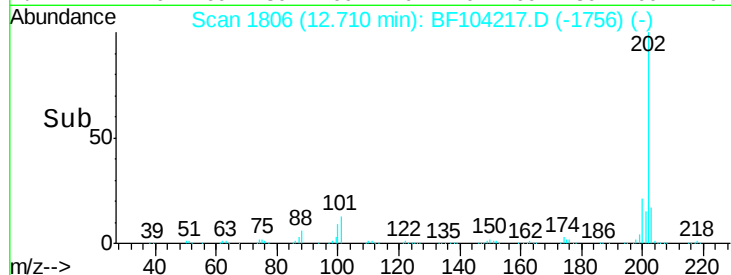
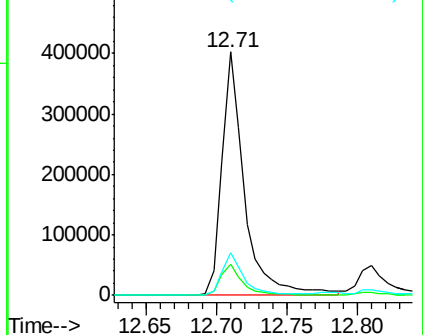
203 17.4 0.0 38.1



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: 14.14 min Scan# 2050

Delta R.T. -0.01 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

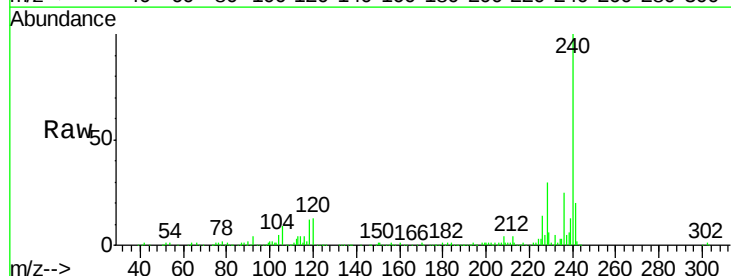
Tgt Ion:240 Resp: 214436

Ion Ratio Lower Upper

240 100

120 13.4 9.5 14.3

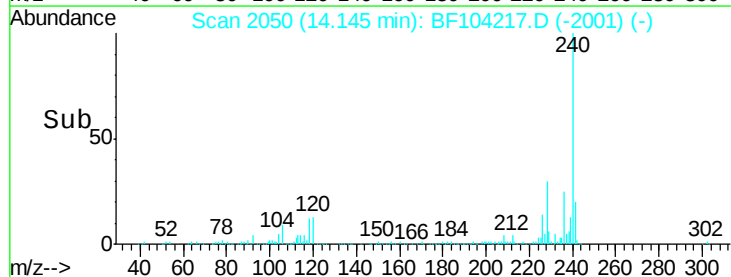
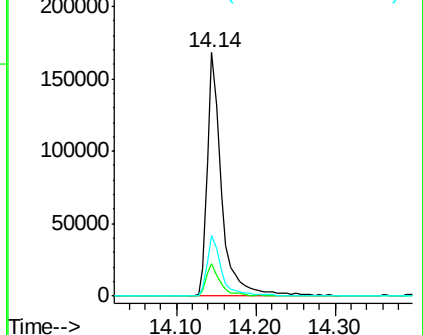
236 25.0 20.7 31.1

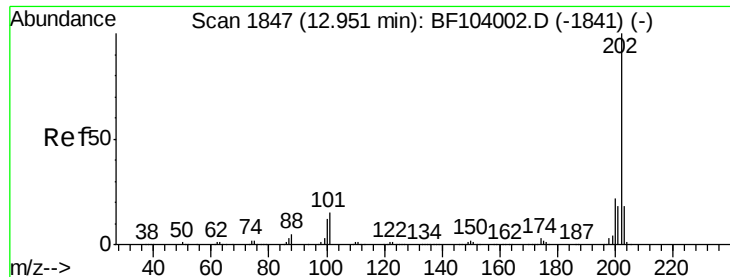


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

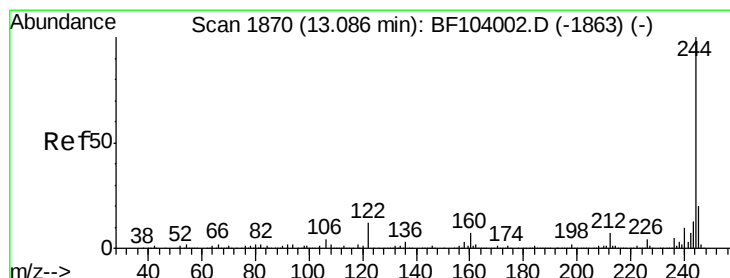
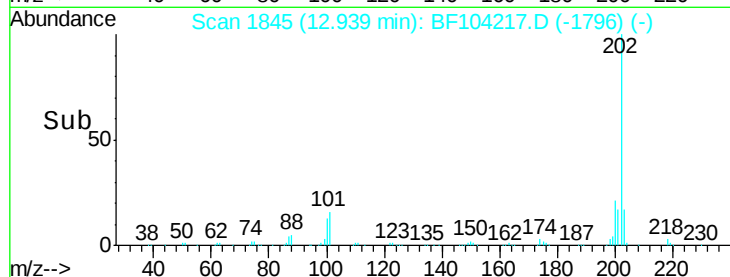
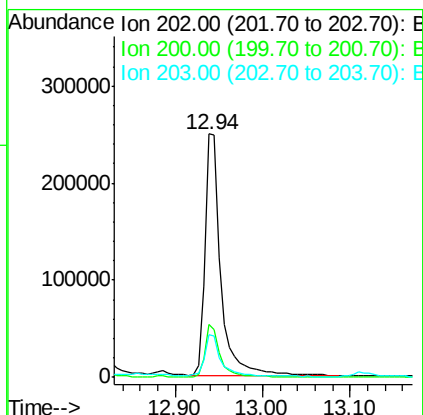
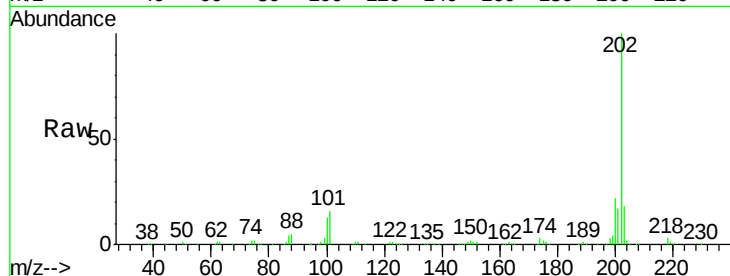




#77
Pvrene
Concen: 20.249 ng
RT: 12.94 min Scan# 1845
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

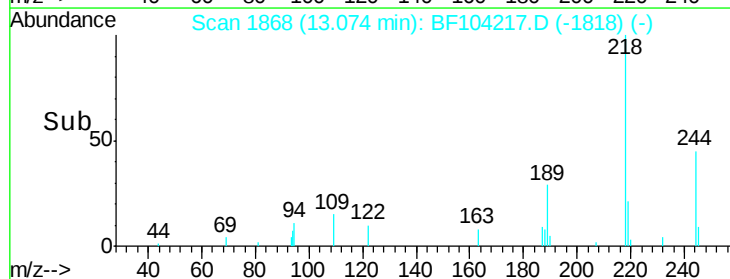
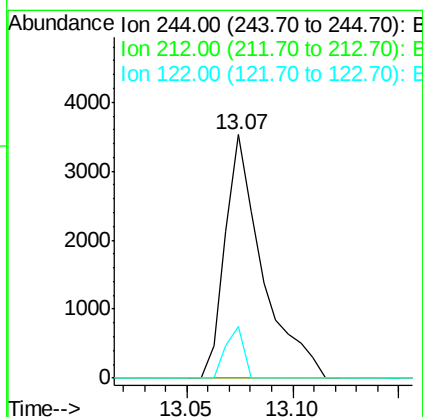
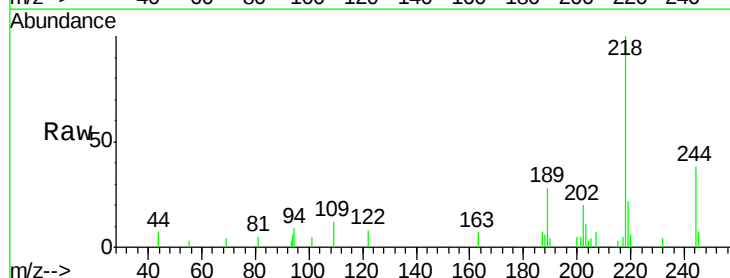
Instrument :
BNA_F
ClientSampleId :

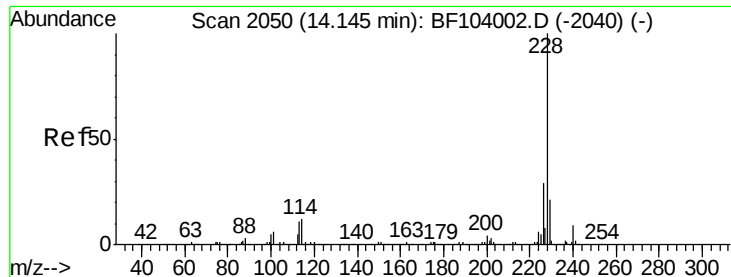
Tot Ion:202 Resp: 312141
Ion Ratio Lower Upper
202 100
200 21.5 17.4 26.2
203 17.7 14.3 21.5



#78
Terphenyl-d14
Concen: 0.464 ng
RT: 13.07 min Scan# 1868
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion:244 Resp: 4313
Ion Ratio Lower Upper
244 100
212 0.0 5.4 8.0#
122 21.3 11.0 16.4#

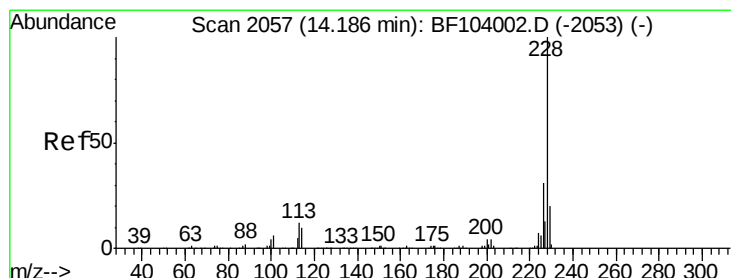
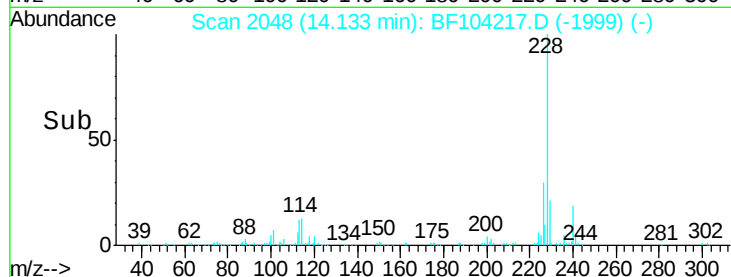
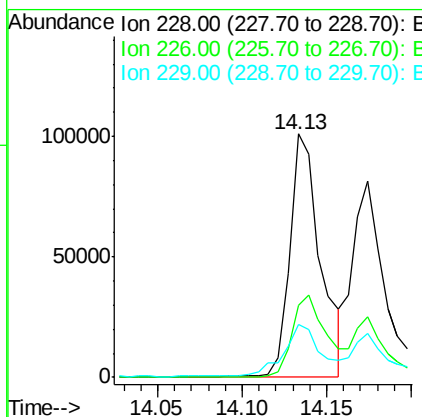
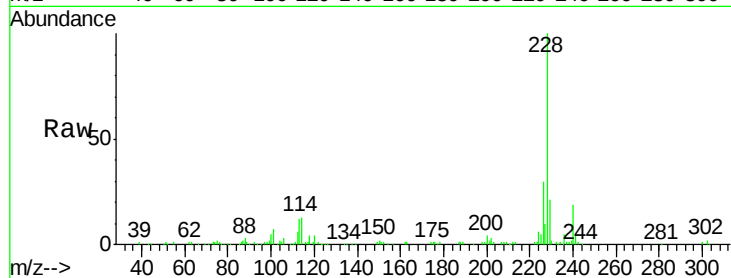




#80
Benzo(a)anthracene
Concen: 9.541 ng
RT: 14.13 min Scan# 2048
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

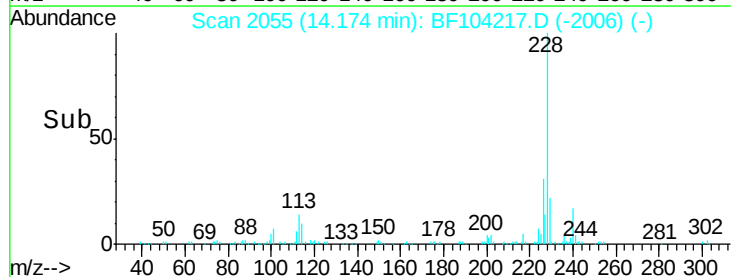
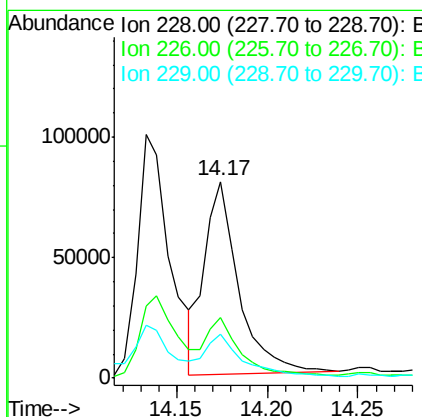
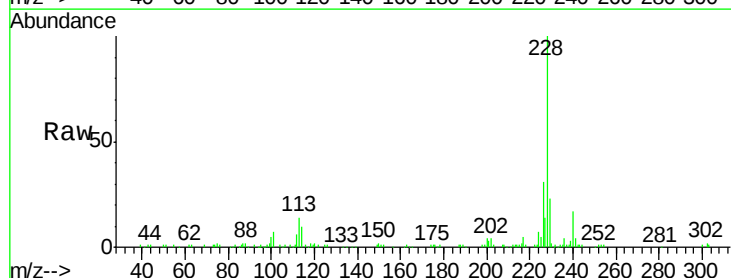
Instrument :
BNA_F
ClientSampleId :

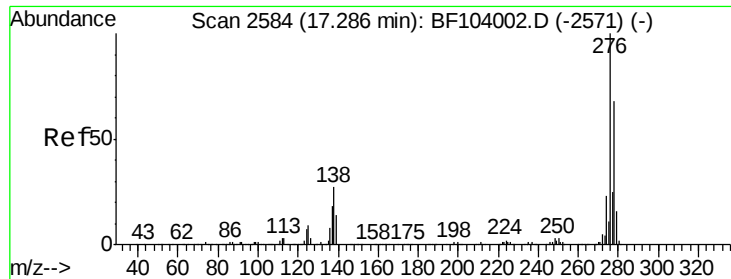
Tot Ion:228 Resp: 128013
Ion Ratio Lower Upper
228 100
226 29.9 22.6 33.8
229 21.5 15.8 23.6



#82
Chrysene
Concen: 7.987 ng
RT: 14.17 min Scan# 2055
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion:228 Resp: 104971
Ion Ratio Lower Upper
228 100
226 30.6 25.0 37.6
229 22.6 16.2 24.4

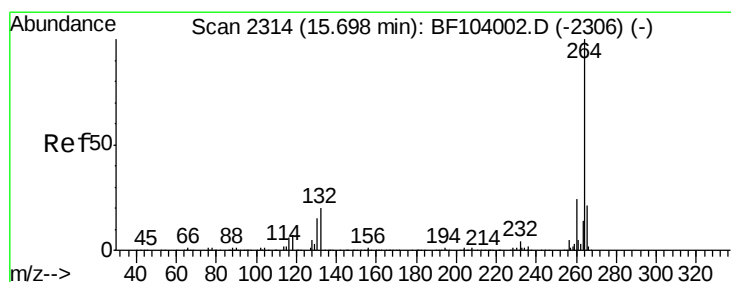
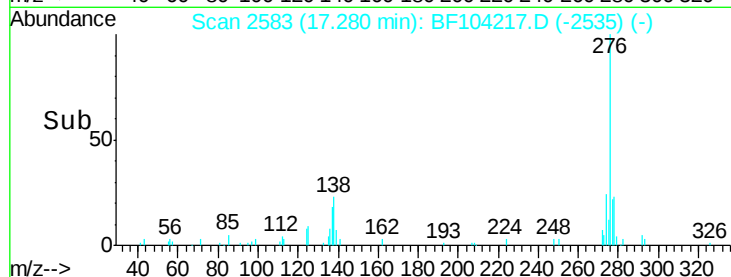
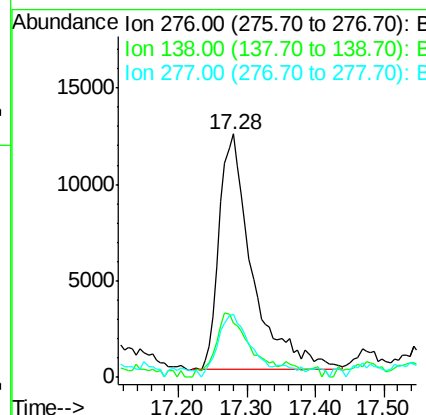
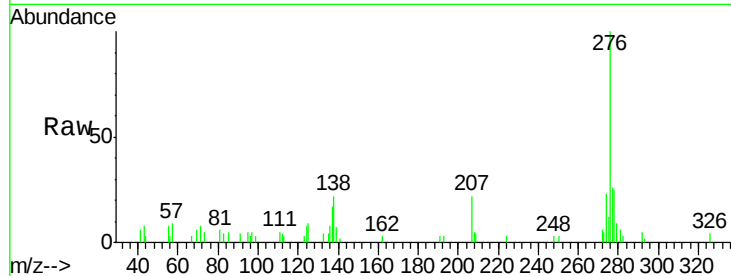




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.015 ng
 RT: 17.28 min Scan# 2583
 Delta R.T. -0.02 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

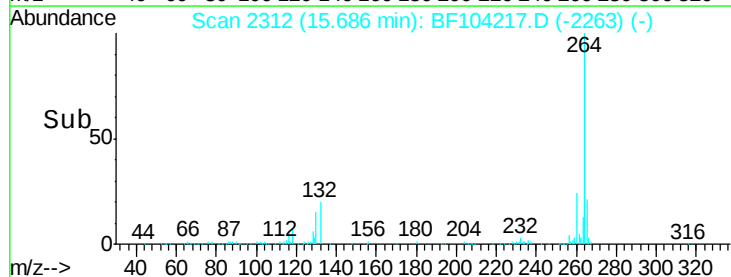
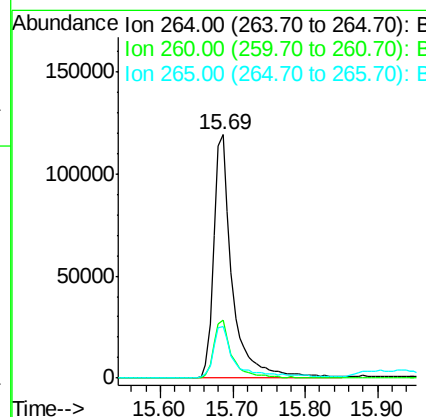
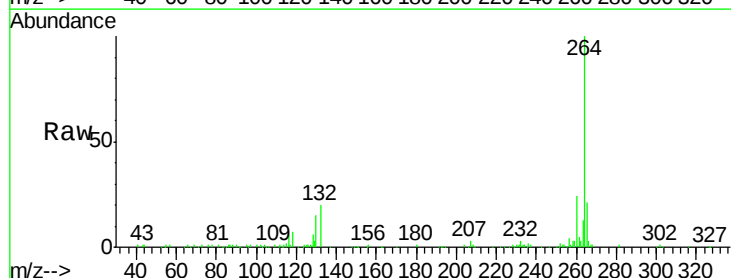
Instrument :
 BNA_F
 ClientSampleId :

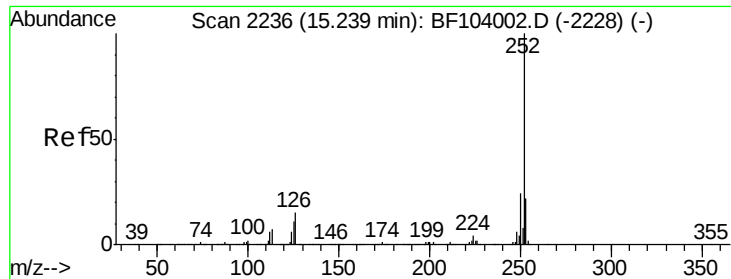
Tot Ion	Ratio	Lower	Upper
276	100		
138	27.8	25.0	37.6
277	25.7	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.69 min Scan# 2312
 Delta R.T. -0.01 min
 Lab File: BF104217.D
 Acq: 4 Apr 2018 9:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	21.2	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 11.605 ng

RT: 15.23 min Scan# 2234

Delta R.T. -0.01 min

Lab File: BF104217.D

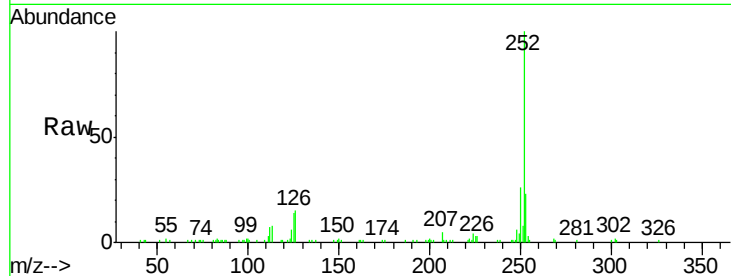
Acq: 4 Apr 2018 9:46

Instrument :

BNA_F

ClientSampleId :

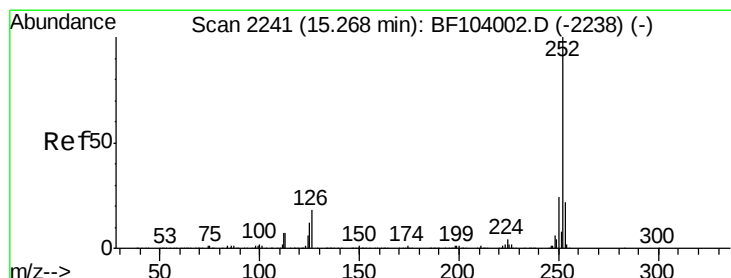
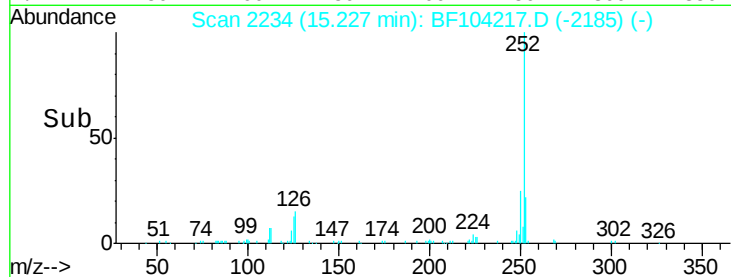
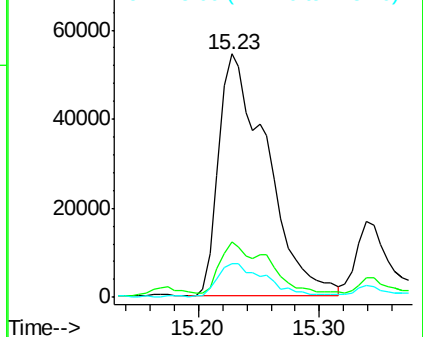
Tot Ion:252	Resp:	150398
Ion Ratio	Lower	Upper
252	100	
253	22.9	17.0 25.6
125	13.7	9.0 13.6#



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: 12.319 ng

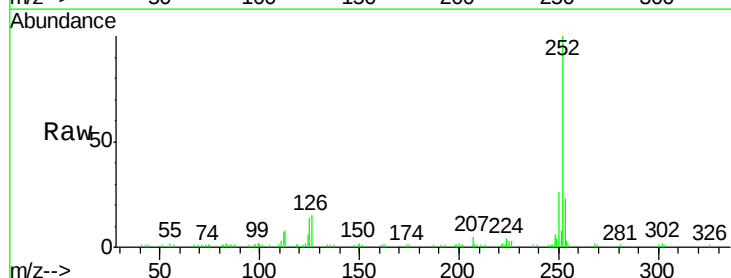
RT: 15.23 min Scan# 2234

Delta R.T. -0.04 min

Lab File: BF104217.D

Acq: 4 Apr 2018 9:46

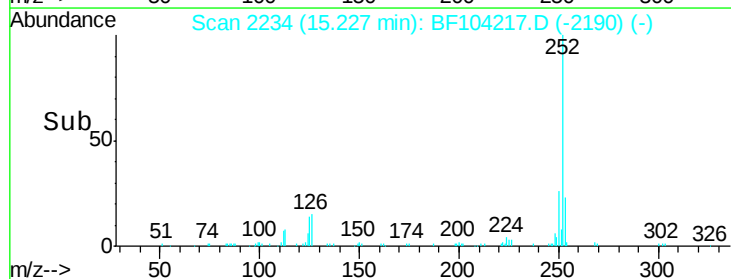
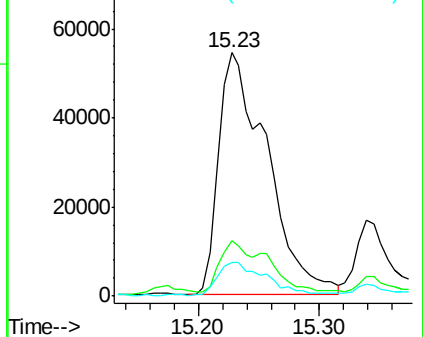
Tgt Ion:252	Resp:	150398
Ion Ratio	Lower	Upper
252	100	
253	22.9	17.9 26.9
125	13.7	10.2 15.2

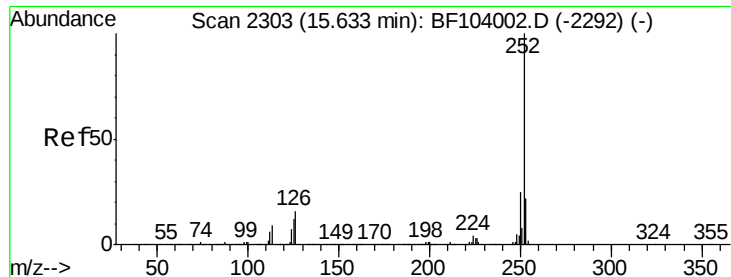


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

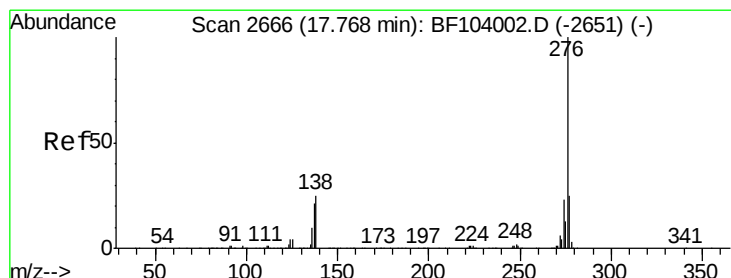
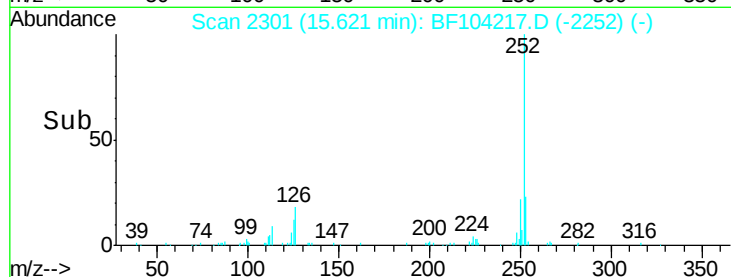
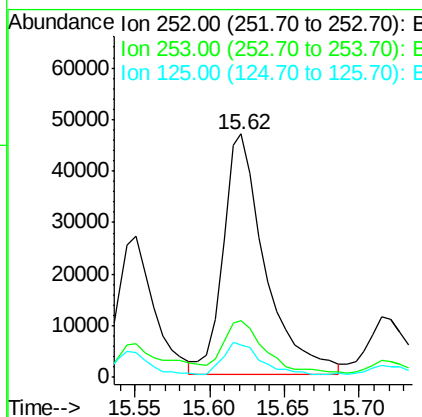
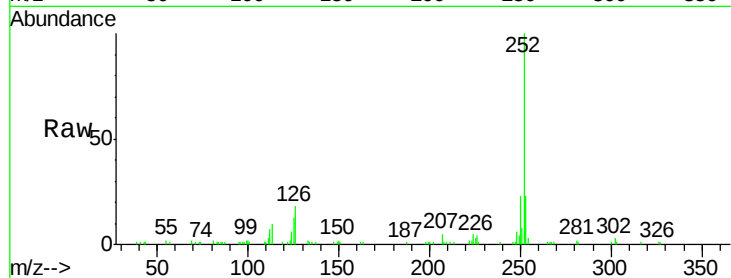




#89
Benzo(a)pyrene
Concen: 7.622 ng
RT: 15.62 min Scan# 2301
Delta R.T. -0.01 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 91540
Ion Ratio Lower Upper
252 100
253 23.1 17.1 25.7
125 13.4 9.8 14.6



#91
Benzo(g,h,i)perylene
Concen: 2.932 ng
RT: 17.76 min Scan# 2665
Delta R.T. -0.02 min
Lab File: BF104217.D
Acq: 4 Apr 2018 9:46

Tgt Ion:276 Resp: 32609
Ion Ratio Lower Upper
276 100
277 26.7 17.9 26.9
138 22.8 21.8 32.8

