

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
 Data File : BF104219.D
 Acq On : 4 Apr 2018 10:39
 Operator : JU/SJ
 Sample : J2176-01DL 50X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 04 11:13:49 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	92544	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	464893	20.00	ng	0.00
38) Acenaphthene-d10	9.99	164	215099	20.00	ng	-0.01
63) Phenanthrene-d10	11.49	188	368192	20.00	ng	0.00
75) Chrysene-d12	14.14	240	225387	20.00	ng	-0.01
86) Perylene-d12	15.69	264	238458	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.73	99	269	0.04	ng	0.13
23) Nitrobenzene-d5	7.63	82	127	0.02	ng	0.10
41) 2,4,6-Tribromophenol	10.80	330	664	0.28	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	7562	0.55	ng	0.00
78) Terphenyl-d14	13.07	244	7878	0.81	ng	0.00

Target Compounds

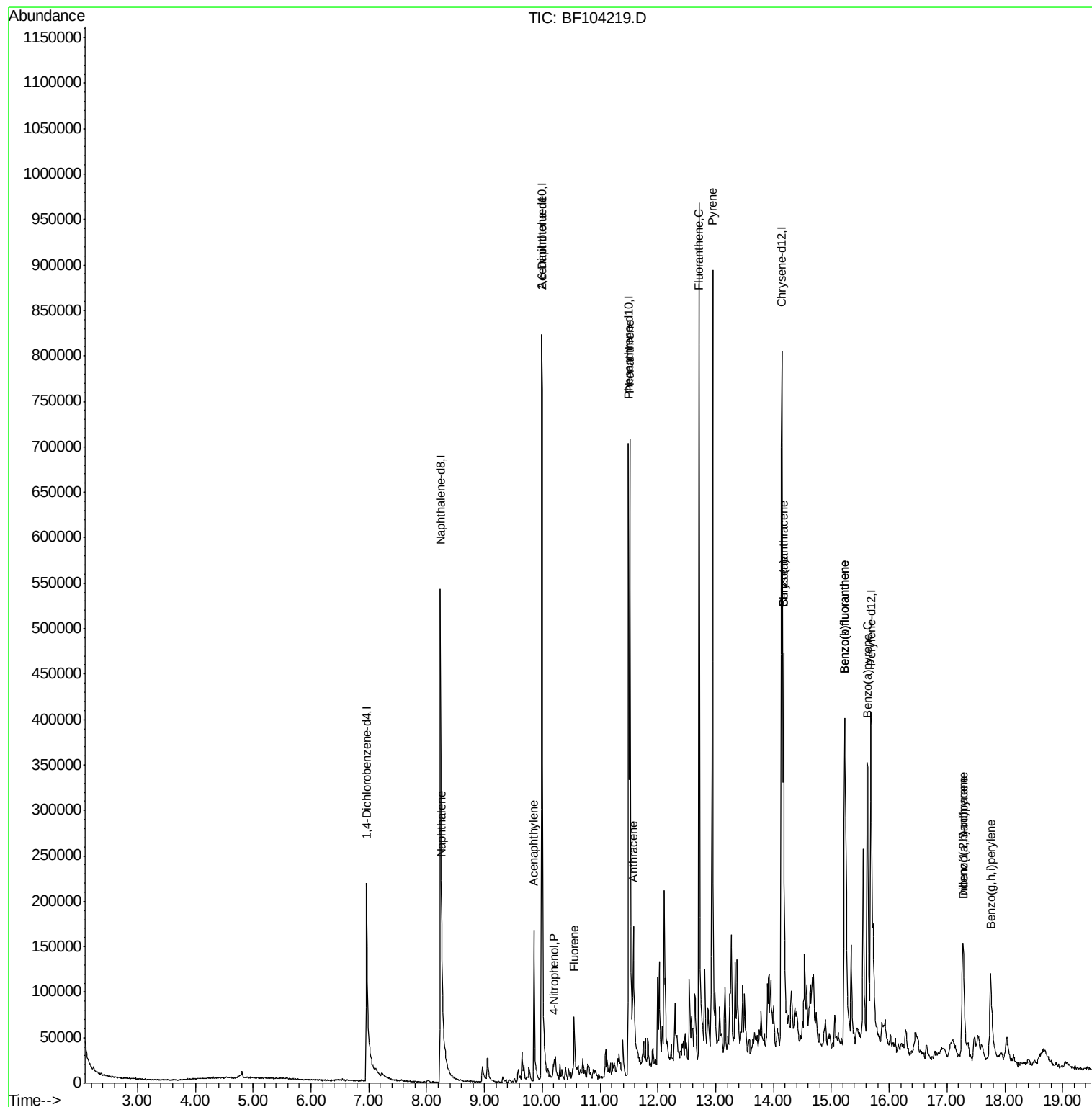
						Qvalue
31) Naphthalene	8.26	128	83675	3.684	ng	98
48) Acenaphthylene	9.86	152	106739	4.838	ng	97
50) 2,6-Dinitrotoluene	9.99	165	27813	7.612	ng	# 26
55) 4-Nitrophenol	10.22	139	7975	3.167	ng	# 9
57) Fluorene	10.55	166	39556	2.573	ng	# 95
70) Phenanthrene	11.52	178	309503	15.526	ng	98
71) Anthracene	11.57	178	137978	6.627	ng	97
74) Fluoranthene	12.71	202	483670	22.826	ng	98
77) Pyrene	12.94	202	436570	26.945	ng	98
80) Benzo(a)anthracene	14.17	228	175174	12.421	ng	96
82) Chrysene	14.17	228	175174	12.682	ng	98
85) Indeno(1,2,3-cd)pyrene	17.27	276	123496	8.628	ng	# 90
87) Benzo(b)fluoranthene	15.23	252	342845	23.624	ng	# 95
88) Benzo(k)fluoranthene	15.23	252	342845	25.079	ng	98
89) Benzo(a)pyrene	15.62	252	212662	15.813	ng	97
90) Dibenzo(a,h)anthracene	17.28	278	28857	2.321	ng	# 89
91) Benzo(g,h,i)perylene	17.76	276	114507	9.194	ng	95

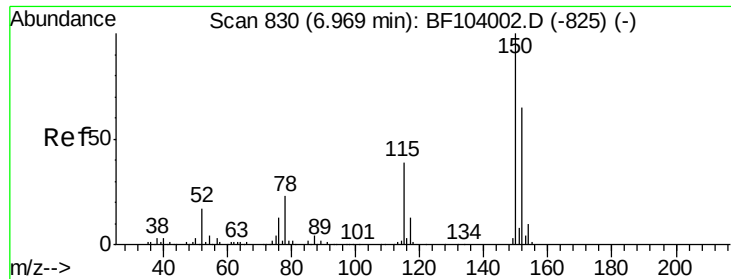
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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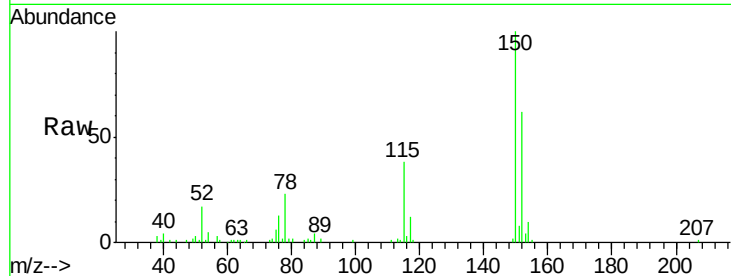


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 828
Delta R.T. -0.01 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion	152	Resp	92544
Ion Ratio	Lower	Upper	
152	100		
150	160.2	124.6	186.8
115	61.6	50.1	75.1

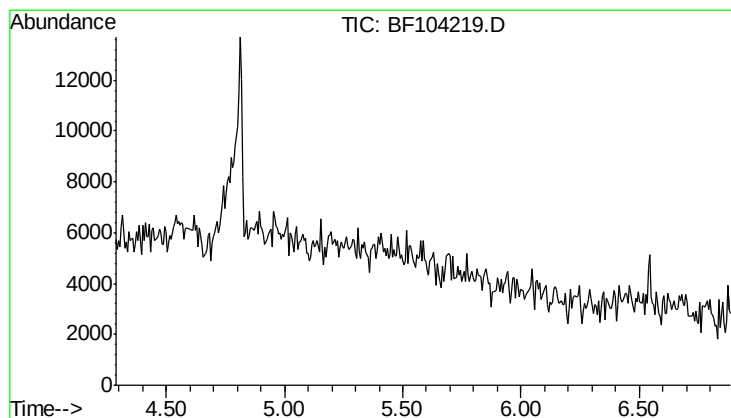
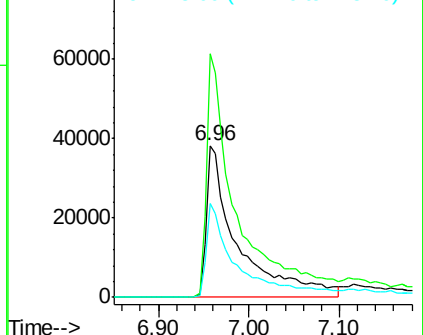
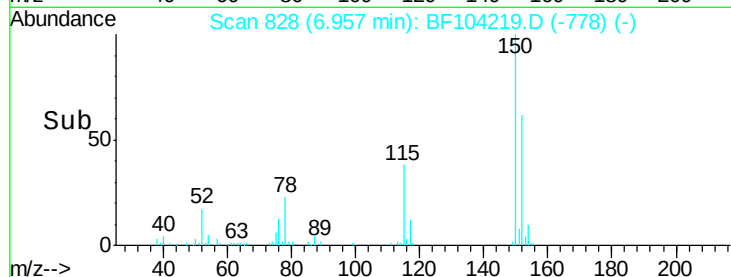


Abundance

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

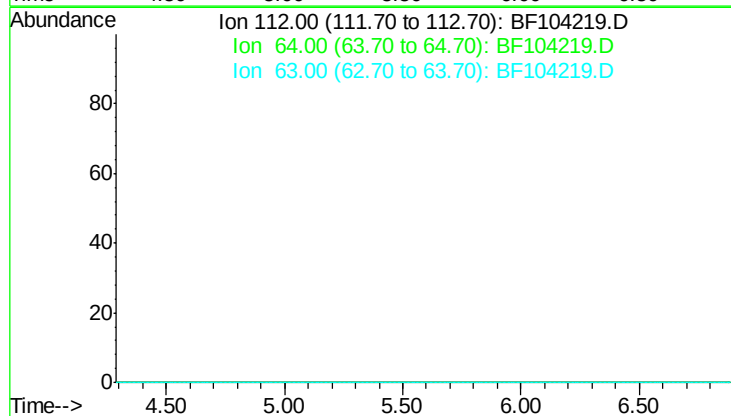


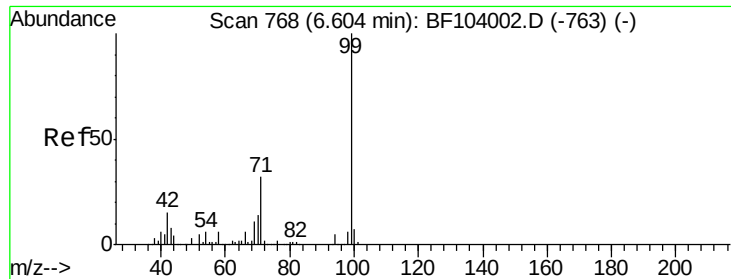
#5

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

Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

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





#7

Phenol-d6

Concen: 0.038 ng

RT: 6.73 min Scan# 789

Delta R.T. 0.13 min

Lab File: BF104219.D

Acq: 4 Apr 2018 10:39

Instrument :

BNA_F

ClientSampled :

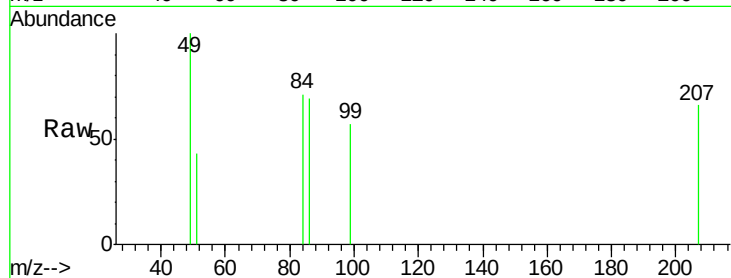
Tot Ion: 99 Resp: 269

Ion Ratio Lower Upper

99 100

42 0.0 14.5 21.7#

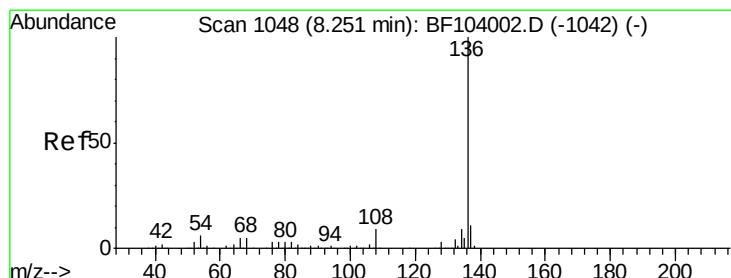
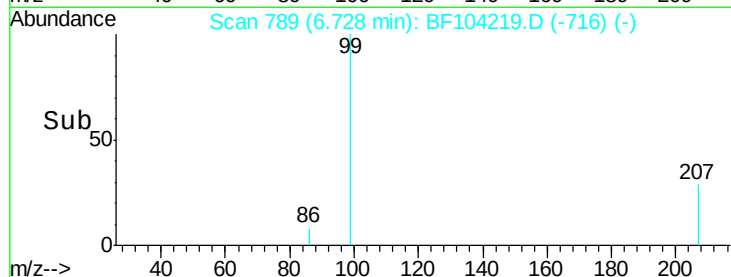
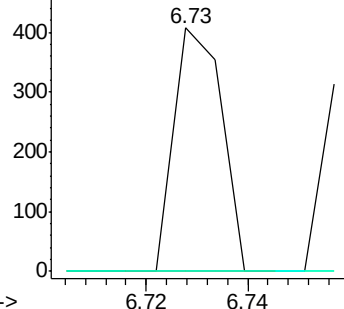
71 0.0 25.4 38.0#



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF104219.D

Acq: 4 Apr 2018 10:39

Tgt Ion: 136 Resp: 464893

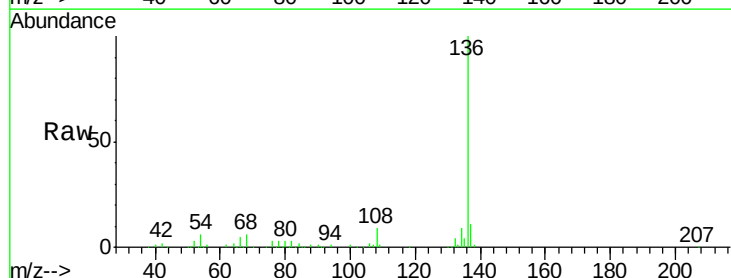
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 6.4 6.6 9.8#

68 5.8 5.0 7.4

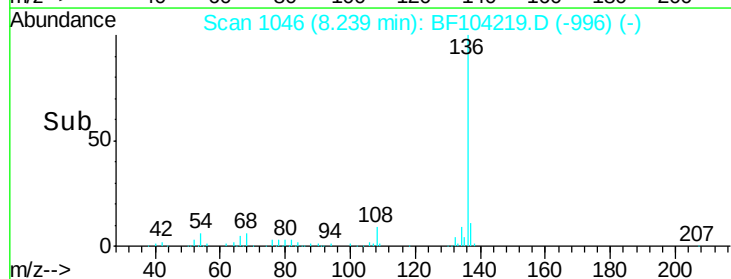
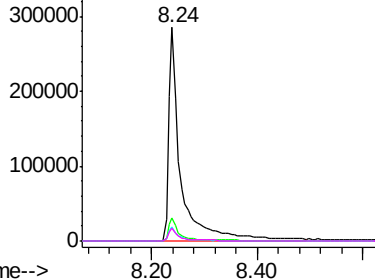


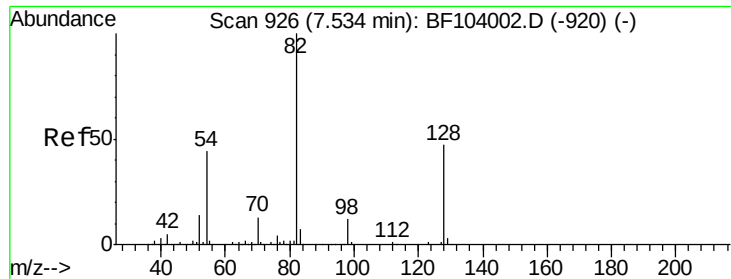
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

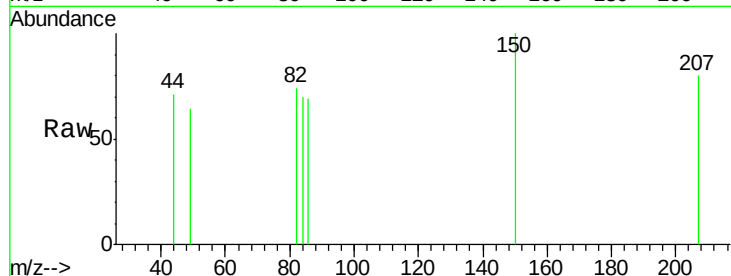




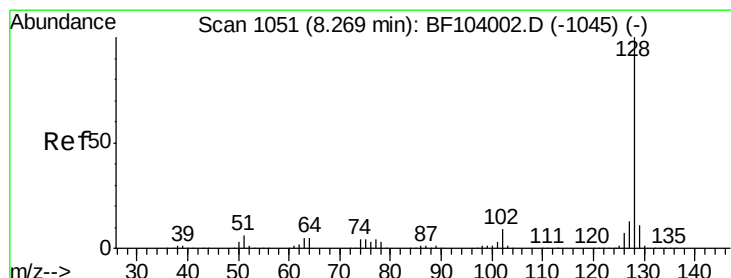
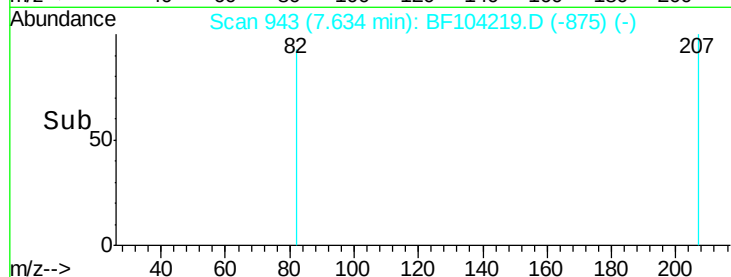
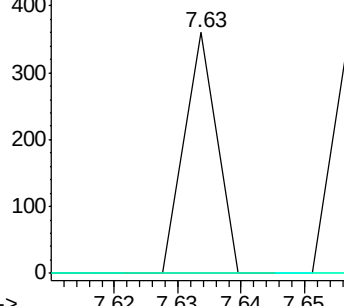
#23
Nitrobenzene-d5
Concen: 0.017 ng
RT: 7.63 min Scan# 943
Delta R.T. 0.10 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 127
Ion Ratio Lower Upper
82 100
128 0.0 36.1 54.1#
54 0.0 41.4 62.2#

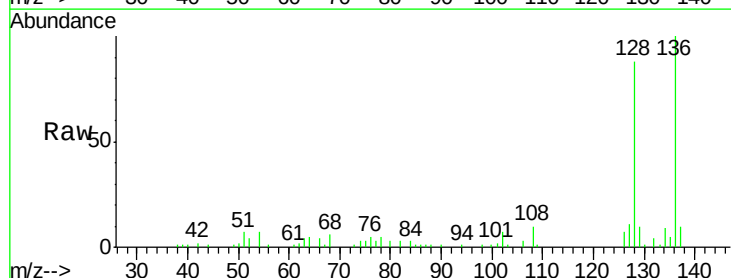


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

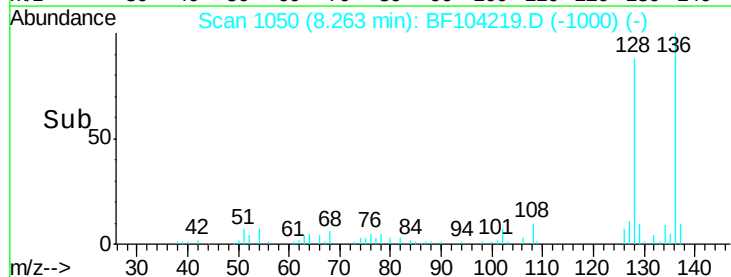
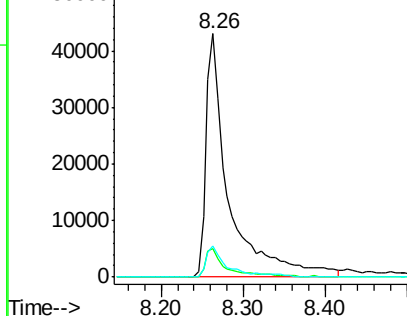


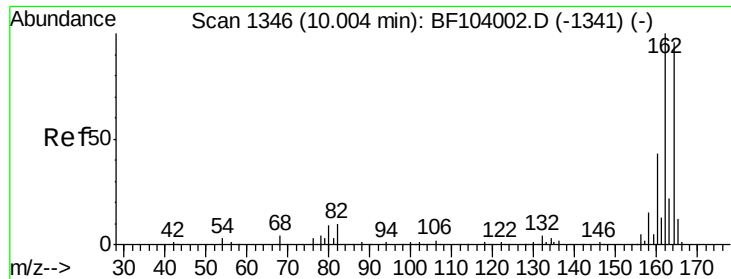
#31
Naphthalene
Concen: 3.684 ng
RT: 8.26 min Scan# 1050
Delta R.T. -0.01 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Tgt Ion:128 Resp: 83675
Ion Ratio Lower Upper
128 100
129 11.5 8.8 13.2
127 12.7 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

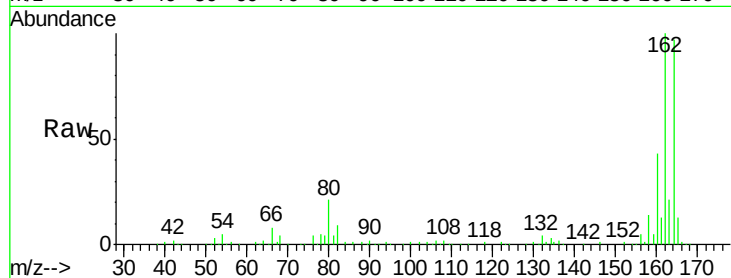




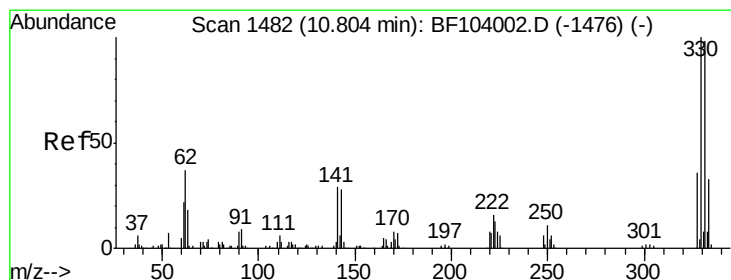
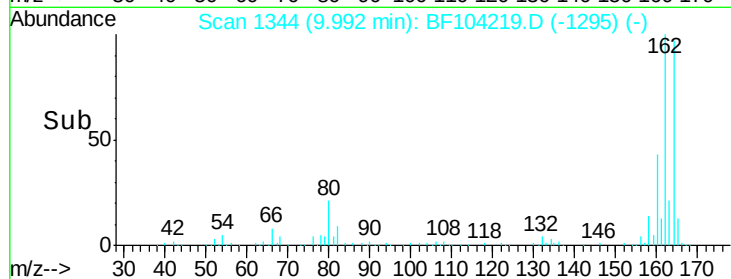
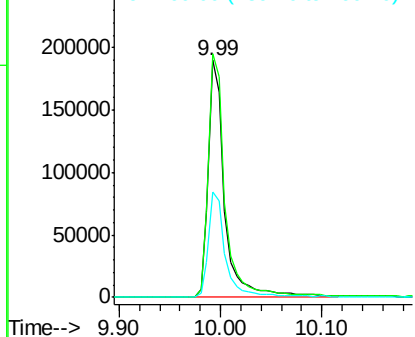
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.99 min Scan# 1344
Delta R.T. -0.01 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Instrument :
BNA_F
ClientSampled :

Tot Ion:164 Resp: 215099
Ion Ratio Lower Upper
164 100
162 102.7 86.1 129.1
160 44.4 38.3 57.5

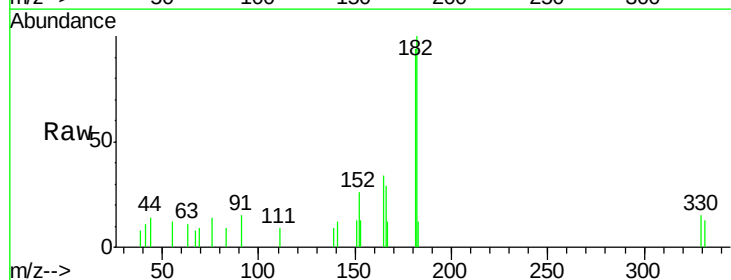


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

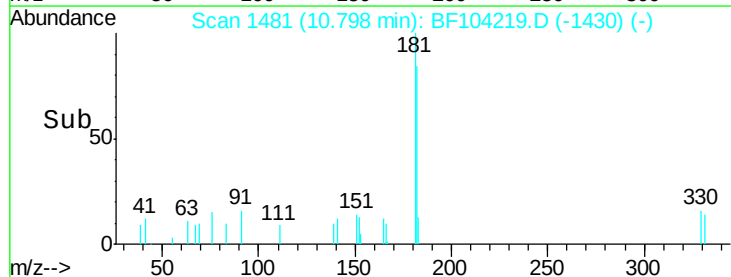
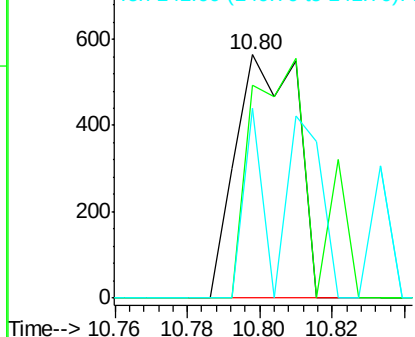


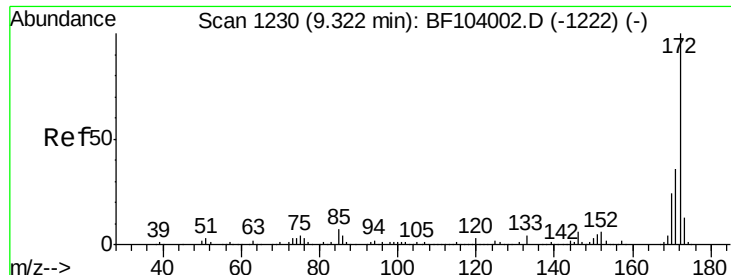
#41
2,4,6-Tribromophenol
Concen: 0.277 ng
RT: 10.80 min Scan# 1481
Delta R.T. -0.00 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Tgt Ion:330 Resp: 664
Ion Ratio Lower Upper
330 100
332 0.0 77.0 115.6#
141 23.3 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

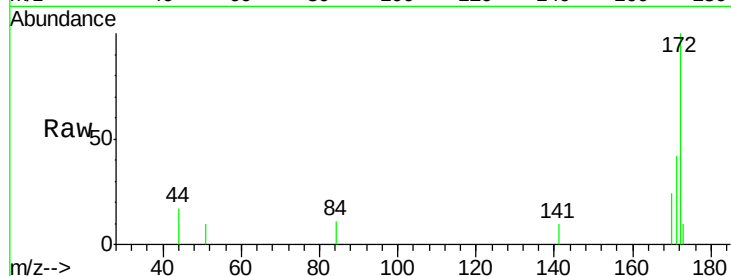




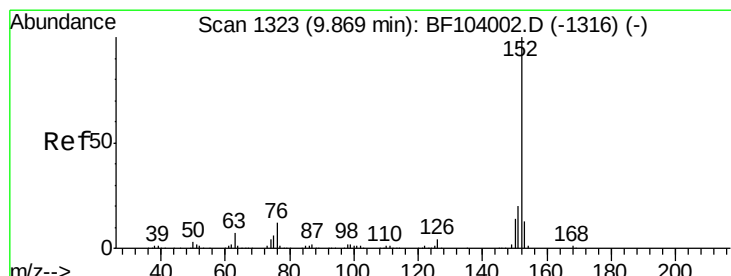
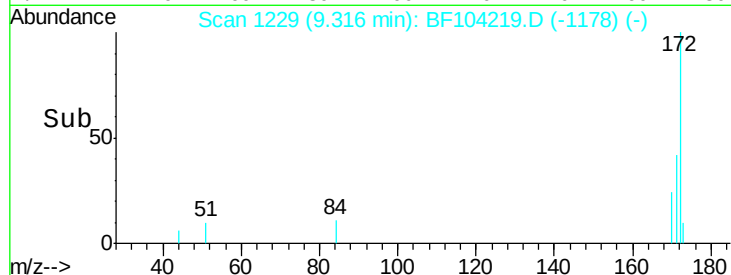
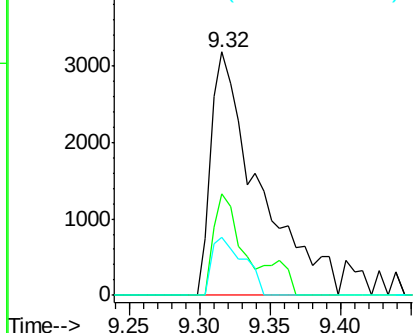
#44
 2-Fluorobiphenyl
 Concen: 0.554 ng
 RT: 9.32 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: BF104219.D
 Acq: 4 Apr 2018 10:39

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 7562
 Ion Ratio Lower Upper
 172 100
 171 41.8 29.7 44.5
 170 23.6 19.6 29.4

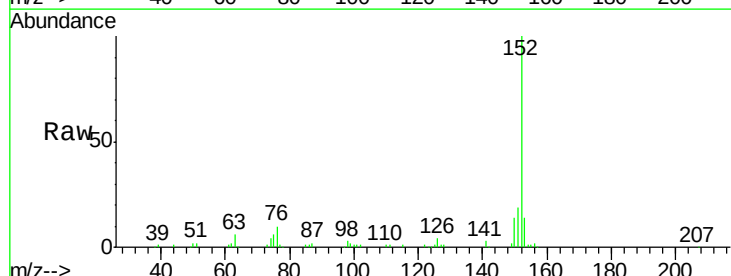


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

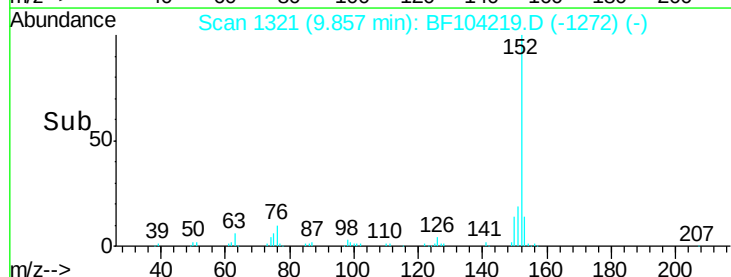
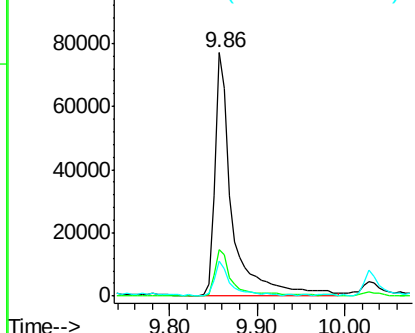


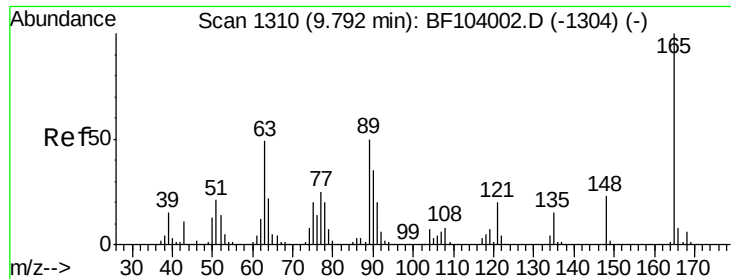
#48
 Acenaphthylene
 Concen: 4.838 ng
 RT: 9.86 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: BF104219.D
 Acq: 4 Apr 2018 10:39

Tgt Ion:152 Resp: 106739
 Ion Ratio Lower Upper
 152 100
 151 19.0 16.3 24.5
 153 14.2 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

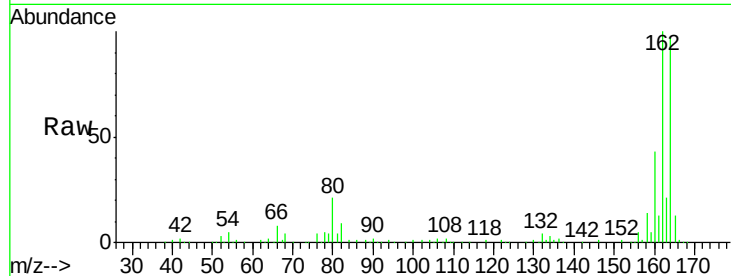




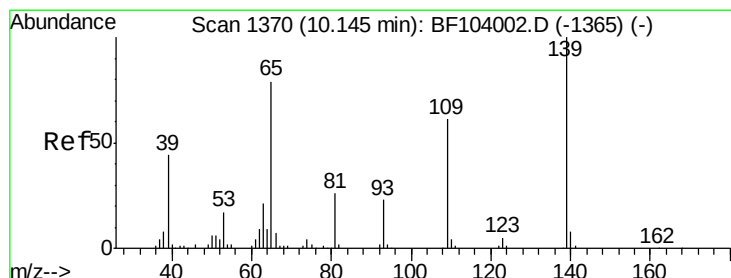
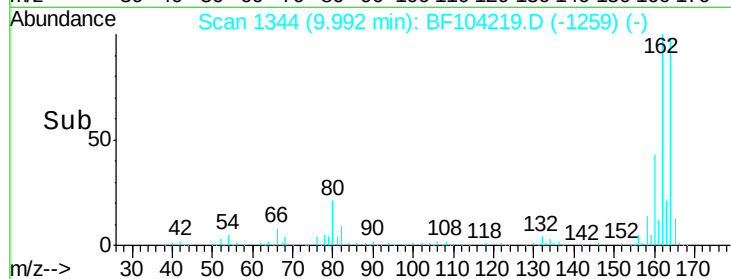
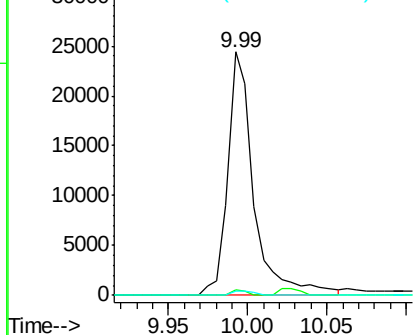
#50
2,6-Dinitrotoluene
Concen: 7.612 ng
RT: 9.99 min Scan# 1344
Delta R.T. 0.20 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 27813
Ion Ratio Lower Upper
165 100
63 2.3 44.7 67.1#
89 1.6 44.0 66.0#

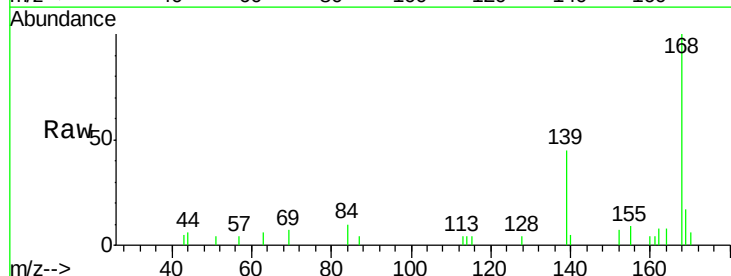


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

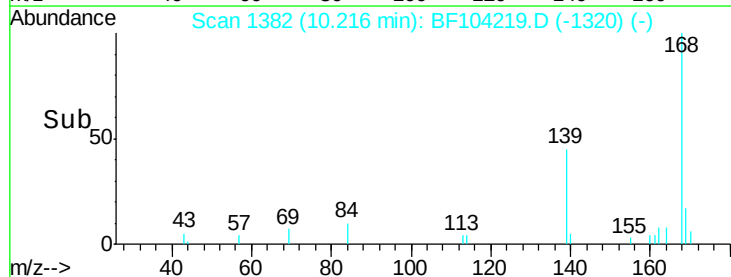
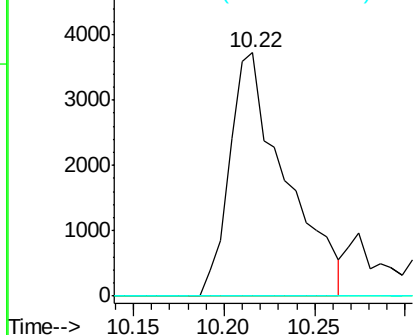


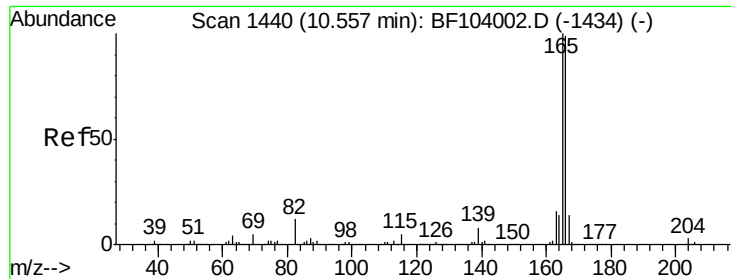
#55
4-Nitrophenol
Concen: 3.167 ng
RT: 10.22 min Scan# 1382
Delta R.T. 0.06 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Tgt Ion:139 Resp: 7975
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 0.0 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

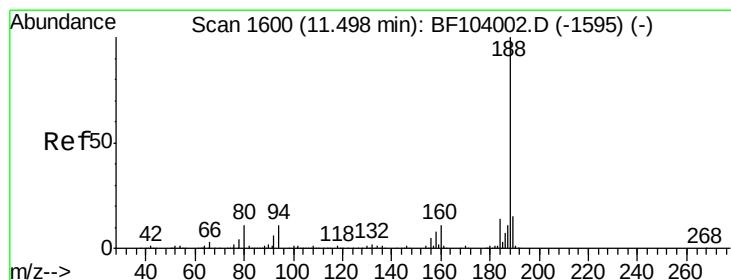
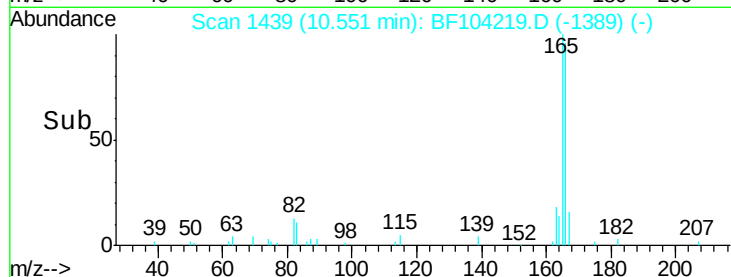
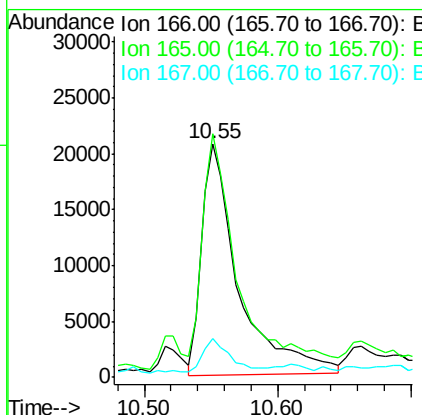
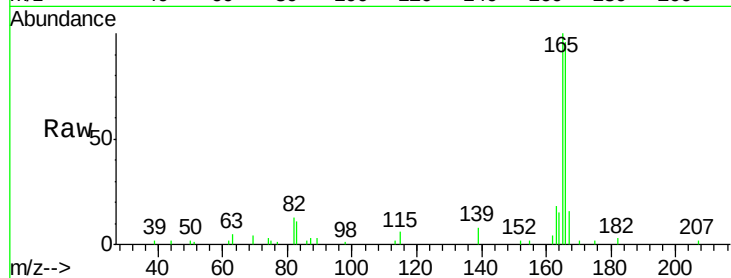




#57
 Fluorene
 Concen: 2.573 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF104219.D
 Acq: 4 Apr 2018 10:39

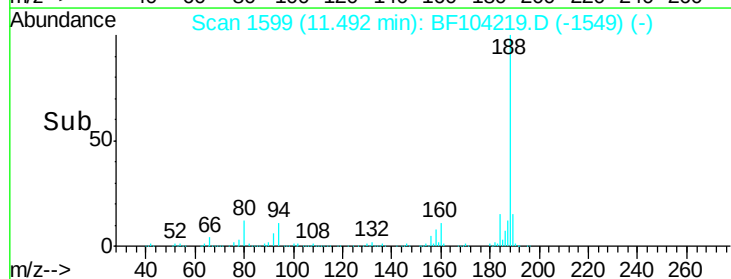
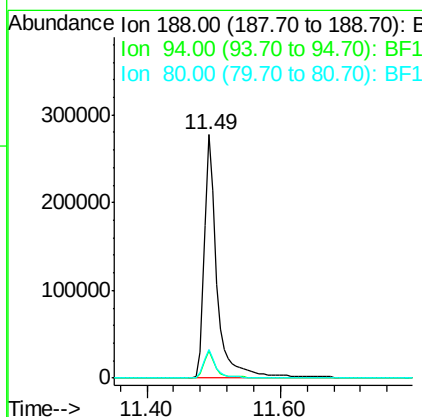
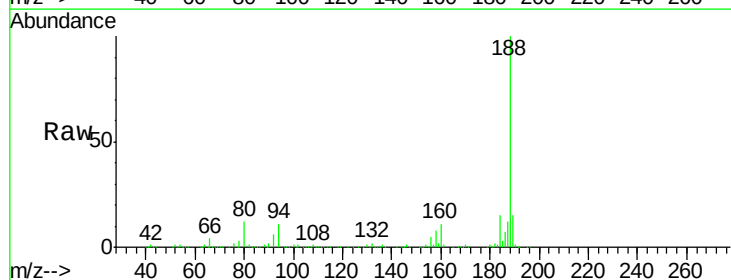
Instrument :
 BNA_F
 ClientSampleId :

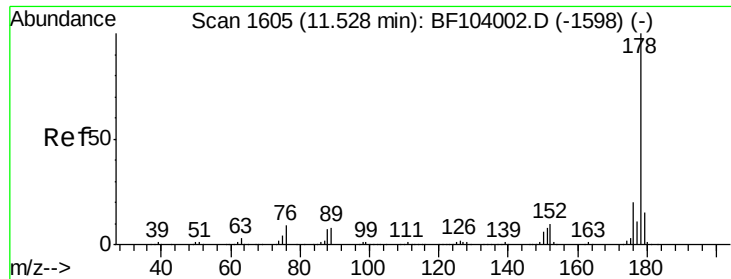
Tot Ion	Ratio	Lower	Upper
166	100		
165	104.2	79.8	119.8
167	16.8	10.6	16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.49 min Scan# 1599
 Delta R.T. -0.01 min
 Lab File: BF104219.D
 Acq: 4 Apr 2018 10:39

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.2	8.5	12.7
80	11.5	9.2	13.8

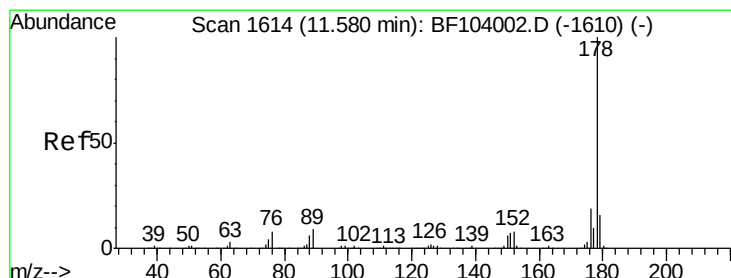
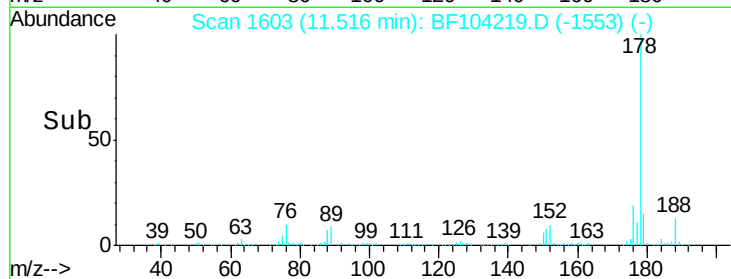
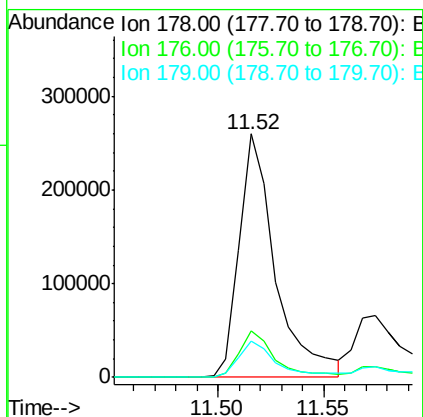
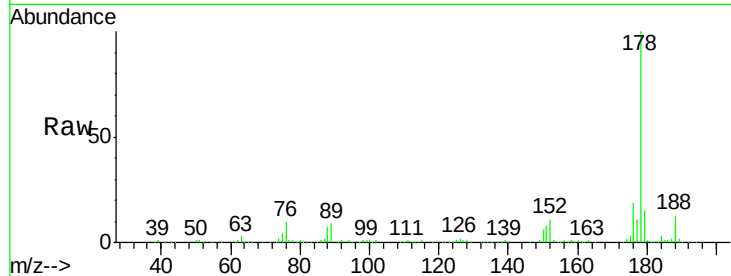




#70
Phenanthrene
Concen: 15.526 ng
RT: 11.52 min Scan# 1603
Delta R.T. -0.01 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

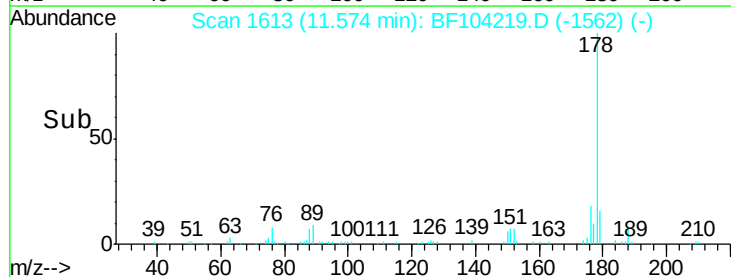
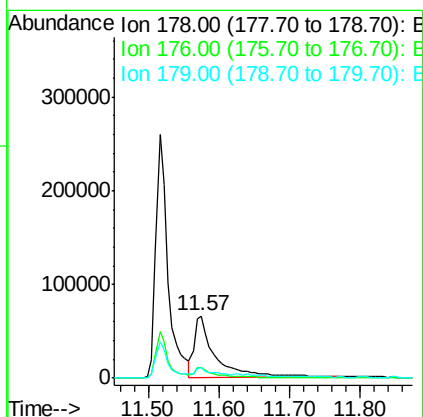
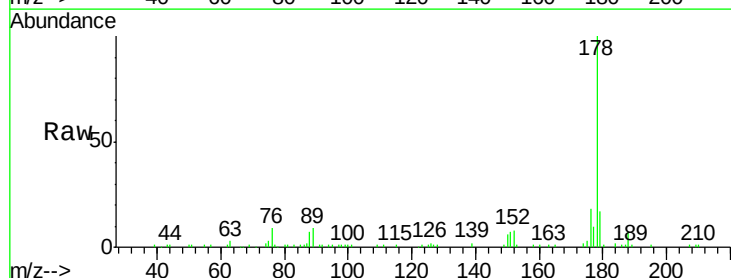
Instrument :
BNA_F
ClientSampleId :

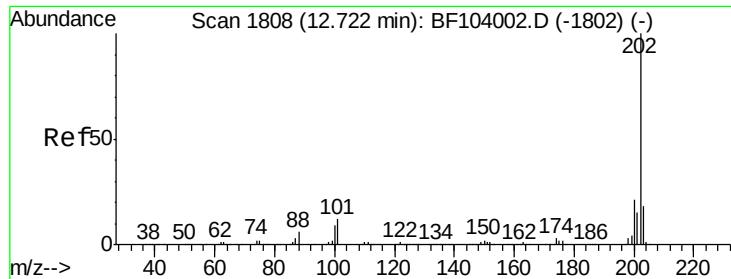
Tot Ion:178 Resp: 309503
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.8
179 15.1 13.0 19.6



#71
Anthracene
Concen: 6.627 ng
RT: 11.57 min Scan# 1613
Delta R.T. -0.00 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Tgt Ion:178 Resp: 137978
Ion Ratio Lower Upper
178 100
176 17.9 15.4 23.2
179 17.1 12.6 19.0





#74

Fluoranthene

Concen: 22.826 ng

RT: 12.71 min Scan# 1806

Delta R.T. -0.01 min

Lab File: BF104219.D

Acq: 4 Apr 2018 10:39

Instrument :

BNA_F

ClientSampleId :

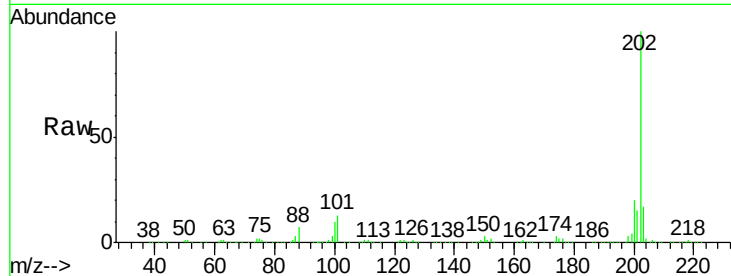
Tot Ion:202 Resp: 483670

Ion Ratio Lower Upper

202 100

101 13.4 0.0 34.1

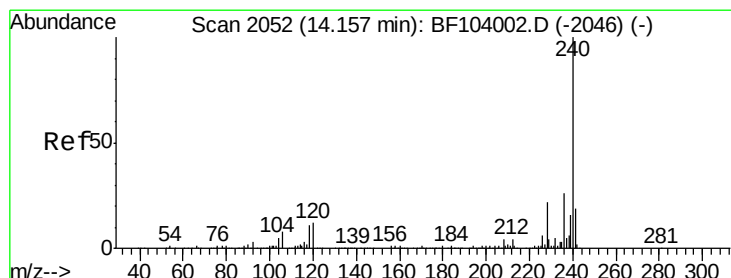
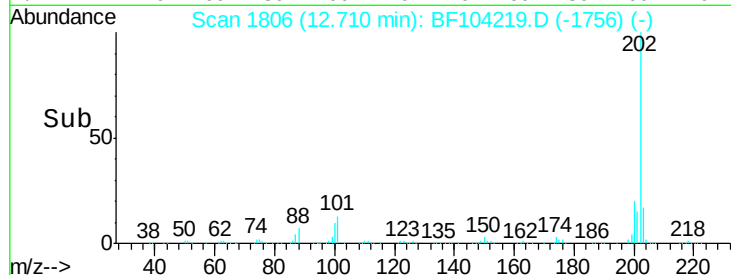
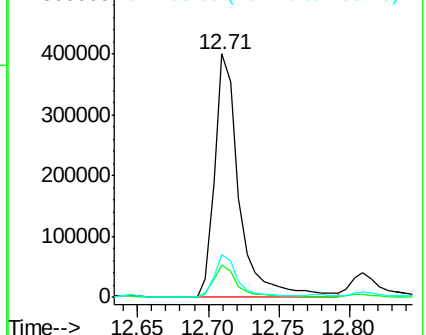
203 17.5 0.0 38.1



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: BF104219.D

Acq: 4 Apr 2018 10:39

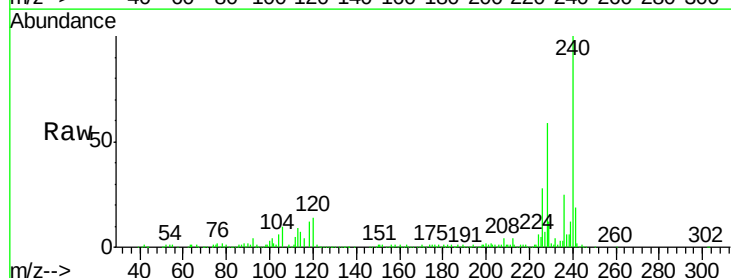
Tgt Ion:240 Resp: 225387

Ion Ratio Lower Upper

240 100

120 14.0 9.5 14.3

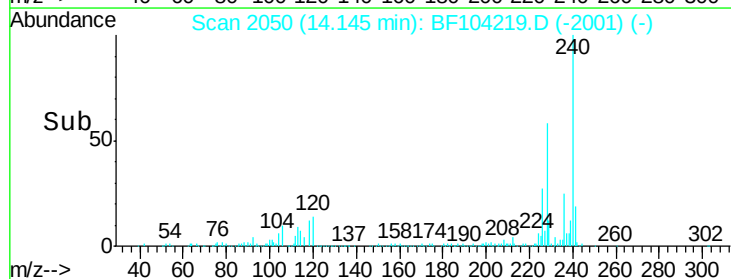
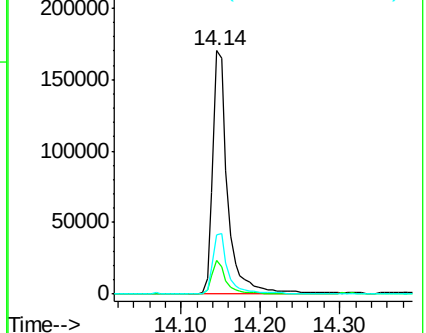
236 24.5 20.7 31.1

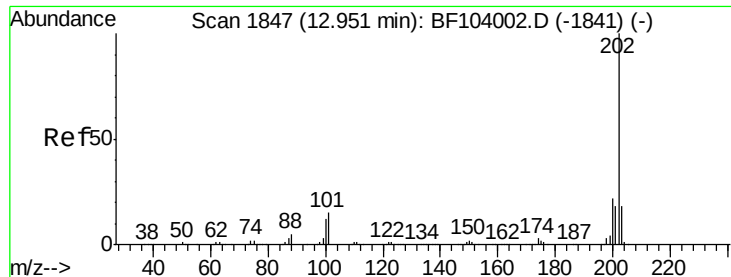


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

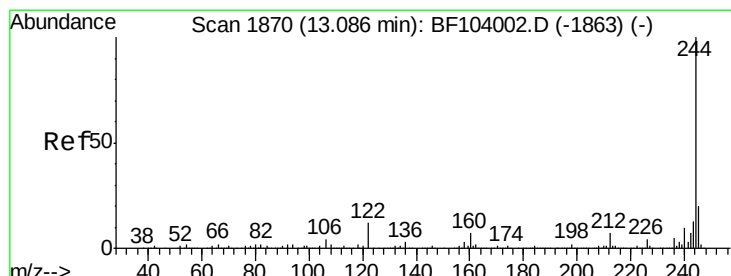
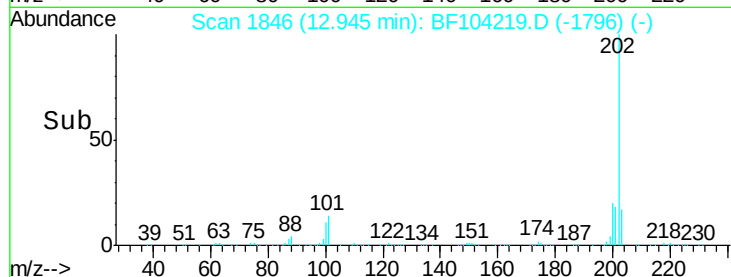
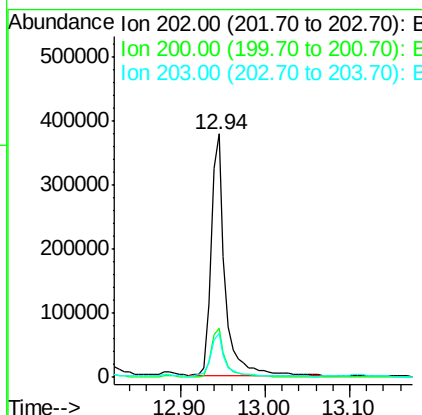
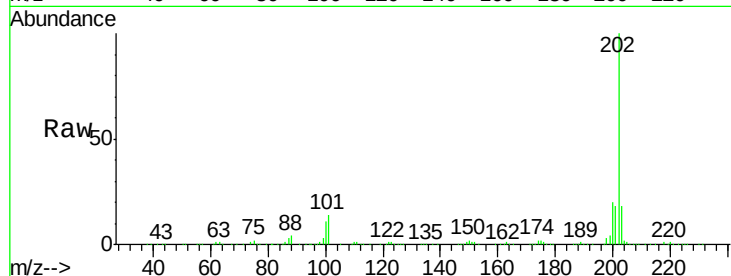




#77
Pvrene
Concen: 26.945 ng
RT: 12.94 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

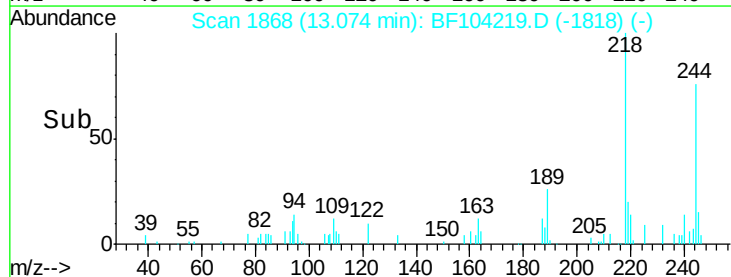
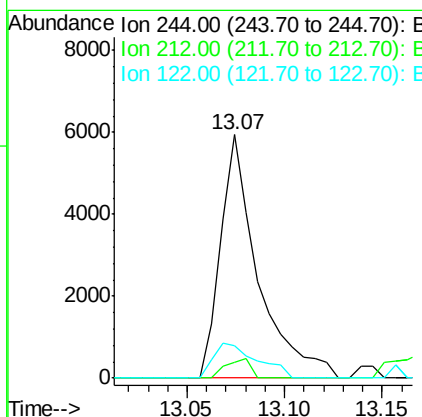
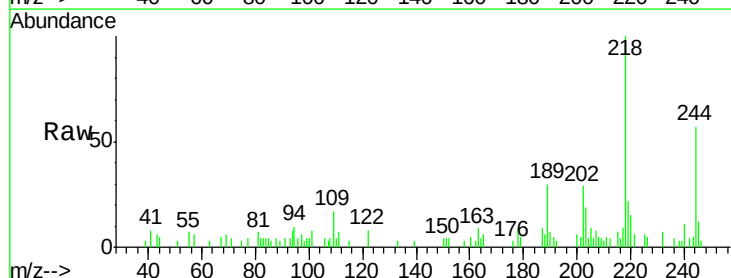
Instrument :
BNA_F
ClientSampleId :

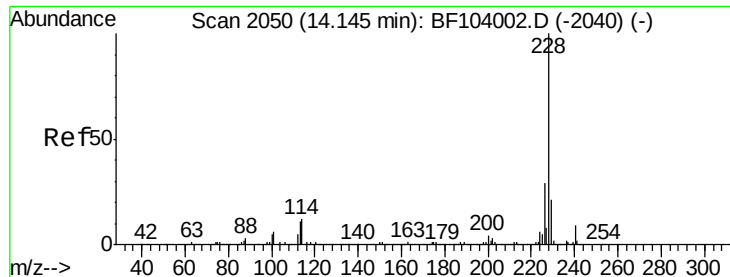
Tot Ion:202 Resp: 436570
Ion Ratio Lower Upper
202 100
200 20.4 17.4 26.2
203 17.9 14.3 21.5



#78
Terphenyl-d14
Concen: 0.807 ng
RT: 13.07 min Scan# 1868
Delta R.T. -0.01 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Tgt Ion:244 Resp: 7878
Ion Ratio Lower Upper
244 100
212 6.3 5.4 8.0
122 13.4 11.0 16.4





#80

Benzo(a)anthracene

Concen: 12.421 ng

RT: 14.17 min Scan# 2055

Delta R.T. 0.03 min

Lab File: BF104219.D

Acq: 4 Apr 2018 10:39

Instrument :

BNA_F

ClientSampleId :

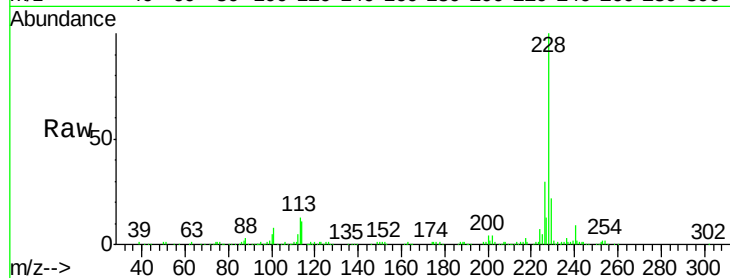
Tot Ion:228 Resp: 175174

Ion Ratio Lower Upper

228 100

226 30.4 22.6 33.8

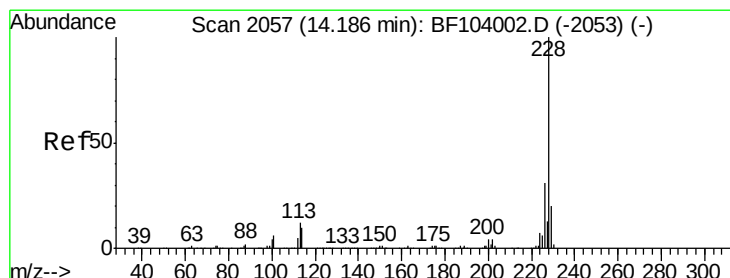
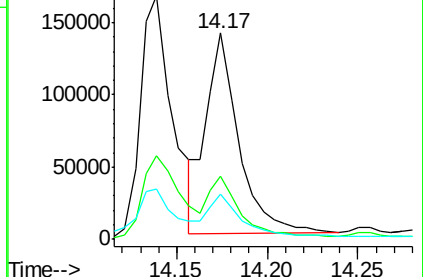
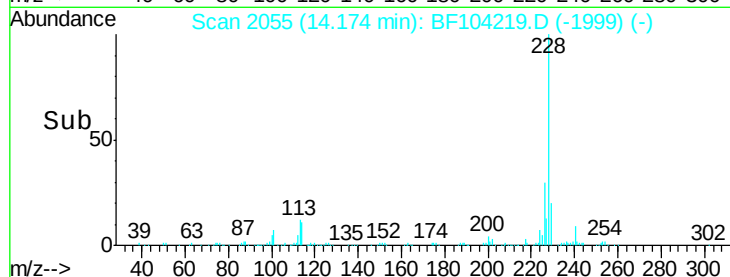
229 21.7 15.8 23.6



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: 12.682 ng

RT: 14.17 min Scan# 2055

Delta R.T. -0.01 min

Lab File: BF104219.D

Acq: 4 Apr 2018 10:39

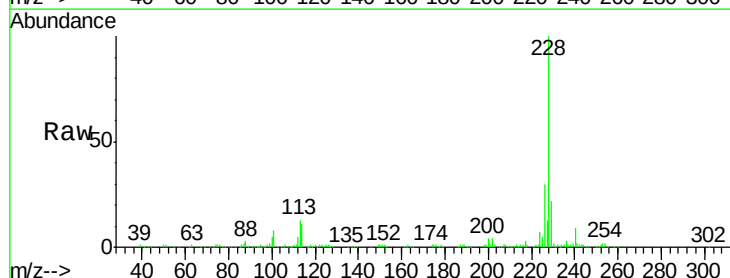
Tgt Ion:228 Resp: 175174

Ion Ratio Lower Upper

228 100

226 30.4 25.0 37.6

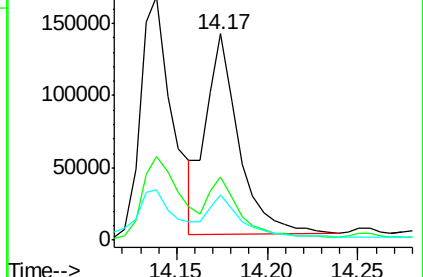
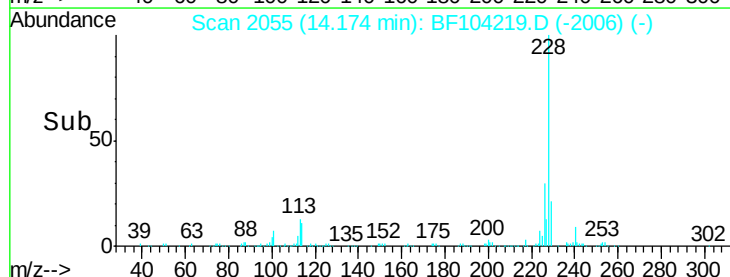
229 21.7 16.2 24.4

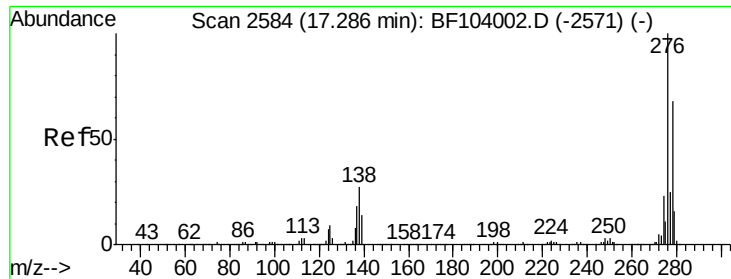


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

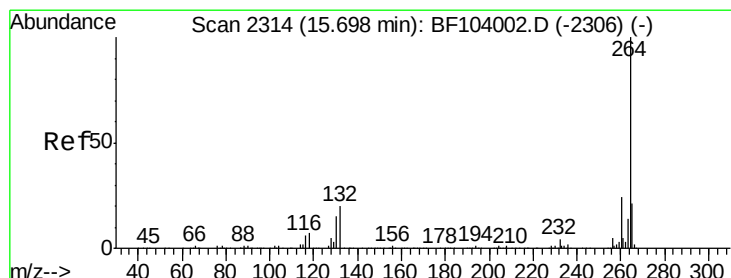
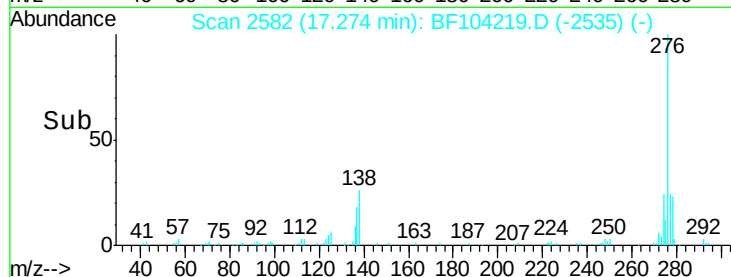
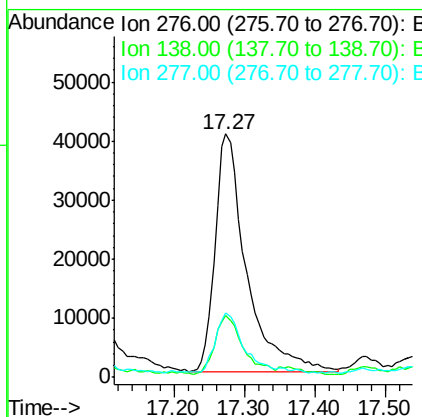
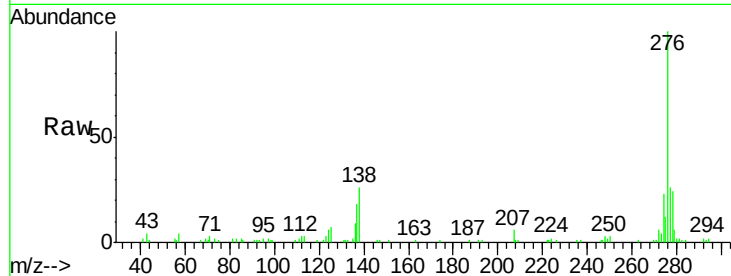




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.628 ng
 RT: 17.27 min Scan# 2582
 Delta R.T. -0.02 min
 Lab File: BF104219.D
 Acq: 4 Apr 2018 10:39

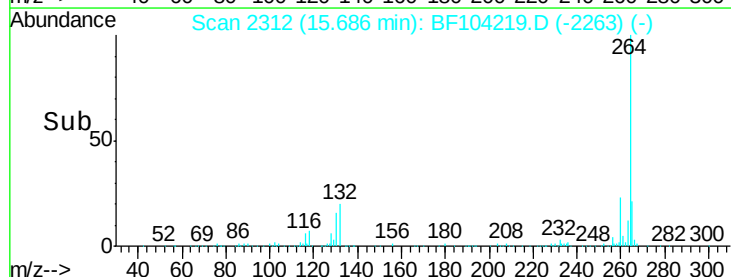
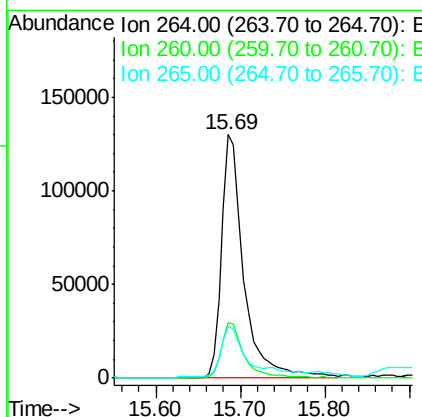
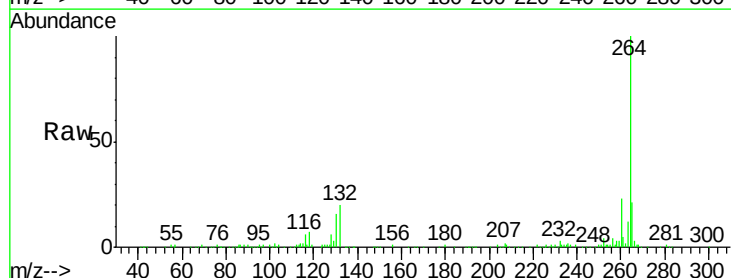
Instrument :
 BNA_F
 ClientSampled :

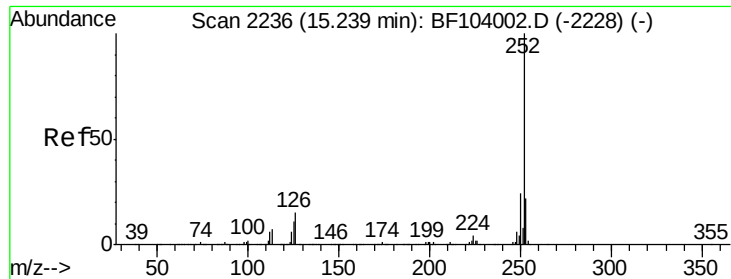
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.4	25.0	37.6#
277	23.4	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.69 min Scan# 2312
 Delta R.T. -0.01 min
 Lab File: BF104219.D
 Acq: 4 Apr 2018 10:39

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.2	28.8
265	21.4	17.5	26.3

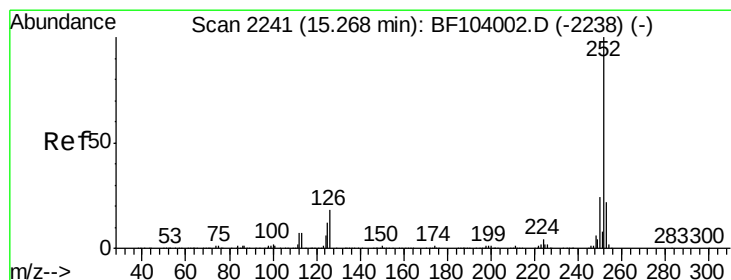
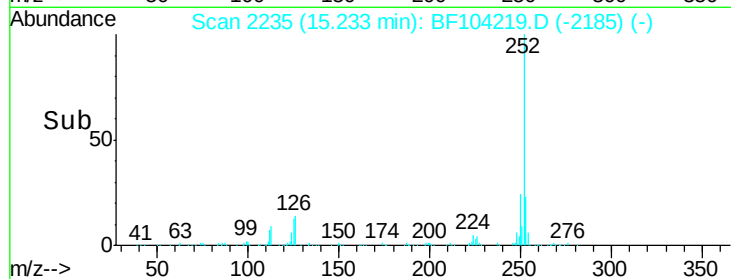
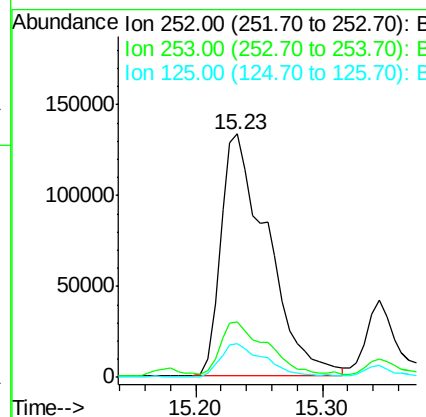
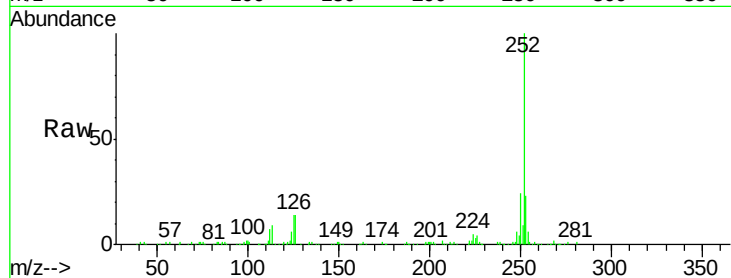




#87
Benzo(b)fluoranthene
Concen: 23.624 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

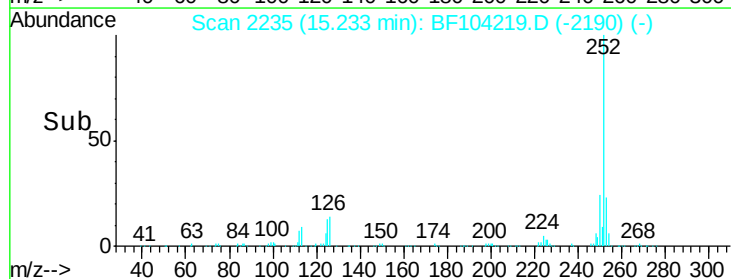
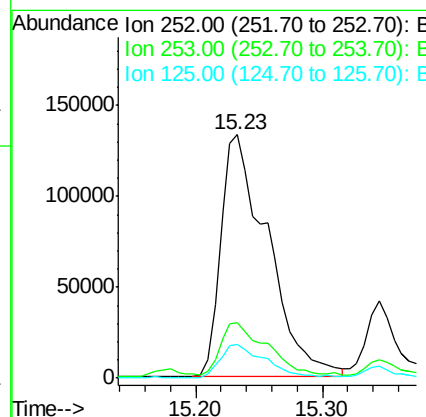
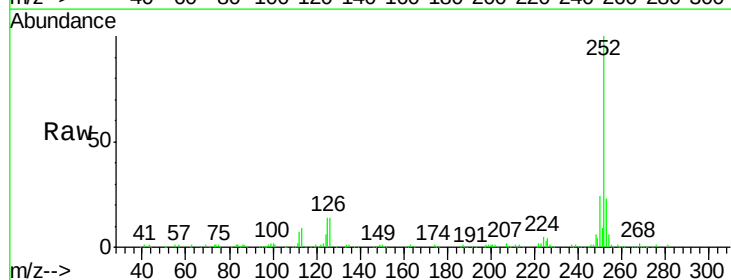
Instrument :
BNA_F
ClientSampleId :

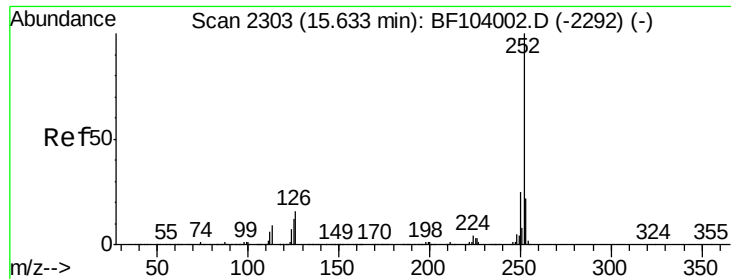
Tot Ion:252 Resp: 342845
Ion Ratio Lower Upper
252 100
253 23.0 17.0 25.6
125 13.7 9.0 13.6#



#88
Benzo(k)fluoranthene
Concen: 25.079 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.04 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Tgt Ion:252 Resp: 342845
Ion Ratio Lower Upper
252 100
253 23.0 17.9 26.9
125 13.7 10.2 15.2

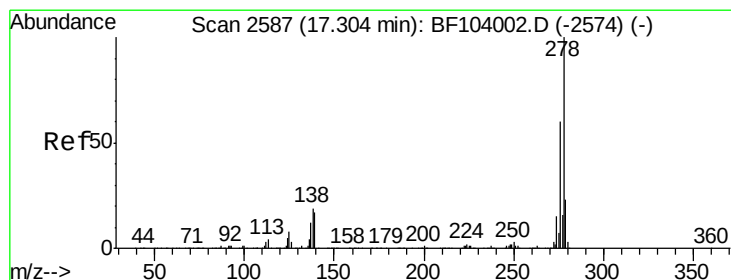
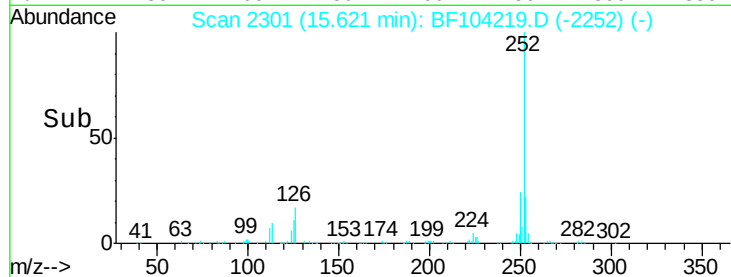
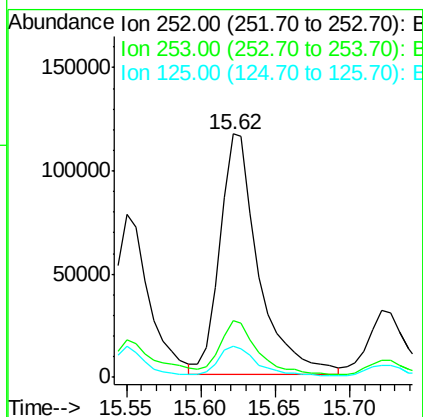
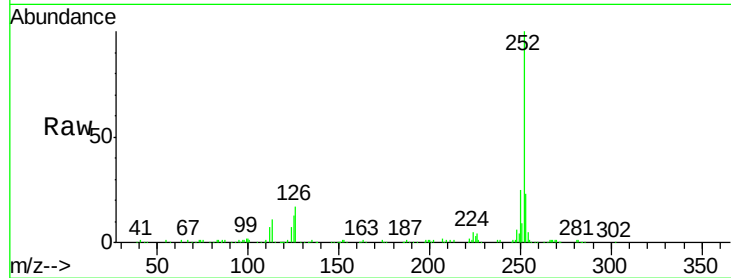




#89
Benzo(a)pyrene
Concen: 15.813 ng
RT: 15.62 min Scan# 2301
Delta R.T. -0.01 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

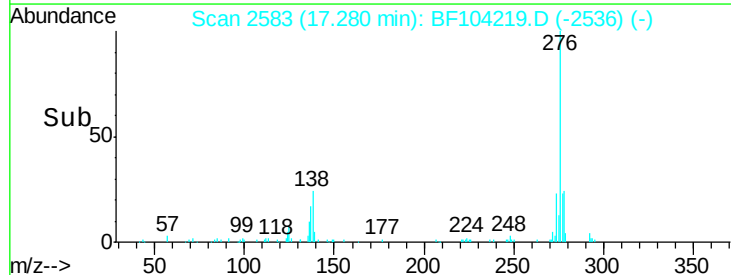
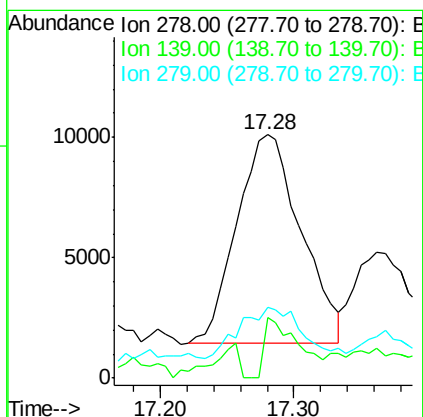
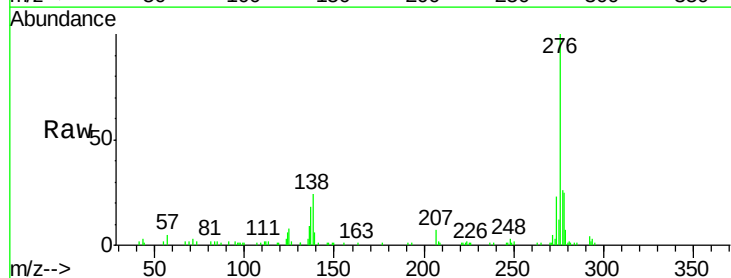
Instrument :
BNA_F
ClientSampleId :

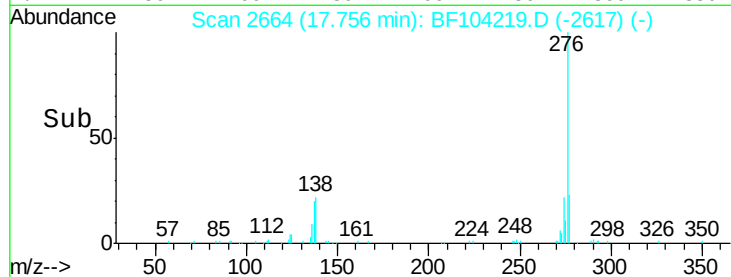
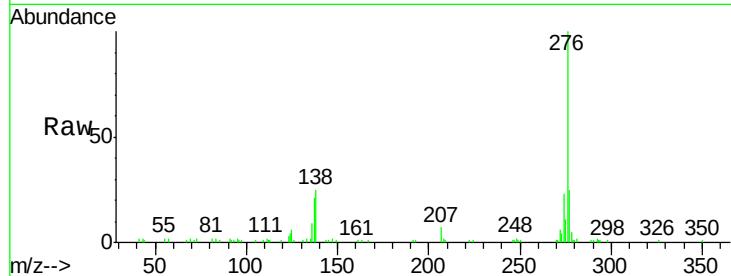
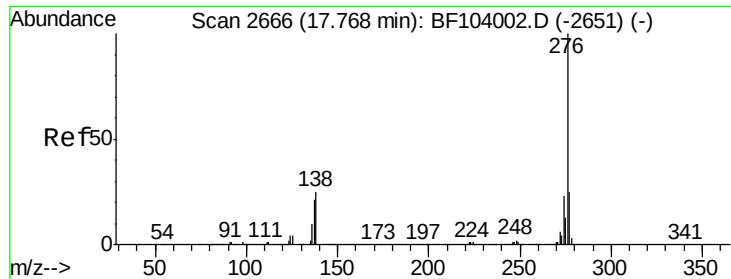
Tot Ion:252 Resp: 212662
Ion Ratio Lower Upper
252 100
253 23.3 17.1 25.7
125 12.9 9.8 14.6



#90
Dibenzo(a,h)anthracene
Concen: 2.321 ng
RT: 17.28 min Scan# 2583
Delta R.T. -0.02 min
Lab File: BF104219.D
Acq: 4 Apr 2018 10:39

Tgt Ion:278 Resp: 28857
Ion Ratio Lower Upper
278 100
139 25.0 15.9 23.9#
279 29.3 19.0 28.4#





#91

Benzo(a,h,i)perylene

Concen: 9.194 ng

RT: 17.76 min Scan# 2664

Delta R.T. -0.02 min

Lab File: BF104219.D

Acq: 4 Apr 2018 10:39

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 276 Resp: 114507

Ion Ratio Lower Upper

276 100

277 24.7 17.9 26.9

138 24.5 21.8 32.8

