

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021518\
 Data File : BF103024.D
 Acq On : 15 Feb 2018 18:16
 Operator : SJ/JU
 Sample : J1540-02
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 16 00:02:29 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 15 14:08:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	178111	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	726724	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	307682	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	408636	20.00	ng	0.01
75) Chrysene-d12	14.09	240	161192	20.00	ng	0.04
86) Perylene-d12	15.59	264	201110	20.00	ng	0.06

System Monitoring Compounds

5) 2-Fluorophenol	5.50	112	1208218	103.02	ng	0.00
7) Phenol-d6	6.51	99	1455054	103.04	ng	0.00
23) Nitrobenzene-d5	7.44	82	920371	87.86	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	232158	93.75	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	1358343	73.26	ng	0.00
78) Terphenyl-d14	13.00	244	858055	126.04	ng	0.00

Target Compounds

						Qvalue
9) Benzaldehyde	6.65	77	25530	2.43	ng	86
10) Phenol	6.52	94	130552	8.63	ng	99
19) n-Nitroso-di-n-propylamine	7.44	70	121012	13.00	ng	# 80
25) Isophorone	7.44	82	920365	38.15	ng	# 64
26) 2-Nitrophenol	7.77	139	108	8.68	ng	# 34
31) Naphthalene	8.18	128	520540	14.66	ng	99
32) Benzoic acid	7.87	122	1572	8.75	ng	84
33) 4-Chloroaniline	8.18	127	68563	4.48	ng	# 35
37) 2-Methylnaphthalene	8.87	142	227060	9.77	ng	98
45) 1,1'-Biphenyl	9.33	154	94703	3.65	ng	97
47) 2-Nitroaniline	9.43	65	1362	3.67	ng	# 29
48) Acenaphthylene	9.77	152	83654	2.64	ng	# 96
49) Dimethylphthalate	9.63	163	127534	5.32	ng	99
51) Acenaphthene	9.95	154	1010561	53.33	ng	99
53) 2,4-Dinitrophenol	10.20	184	284	8.28	ng	# 30
54) Dibenzofuran	10.12	168	1008148	37.75	ng	97
55) 4-Nitrophenol	10.12	139	392856	84.86	ng	# 10
56) 2,4-Dinitrotoluene	10.12	165	2601	3.47	ng	# 1
57) Fluorene	10.47	166	1271609	65.44	ng	100
64) 4,6-Dinitro-2-methylphenol	10.65	198	149	8.87	ng	# 1
66) 4-Bromophenyl-phenylether	10.71	248	15806	3.66	ng	# 1
70) Phenanthrene	11.46	178	5715648	251.15	ng	99
71) Anthracene	11.50	178	2551502	110.23	ng	99
72) Carbazole	11.64	167	1461075	64.43	ng	98
74) Fluoranthene	12.66	202	5982698	261.28	ng	99
77) Pyrene	12.89	202	4875527	385.72	ng	97
80) Benzo(a)anthracene	14.07	228	2963346	292.32	ng	98
82) Chrysene	14.07	228	2963346	289.98	ng	96
85) Indeno(1,2,3-cd)pyrene	17.13	276	1591519	187.78	ng	94
87) Benzo(b)fluoranthene	15.16	252	3865674	296.48	ng	94
88) Benzo(k)fluoranthene	15.16	252	3865674	310.29	ng	97
89) Benzo(a)pyrene	15.54	252	2058367	175.38	ng	95
90) Dibenzo(a,h)anthracene	17.28	278	396121	41.58	ng	95
91) Benzo(g,h,i)perylene	17.59	276	1563147	167.65	ng	97

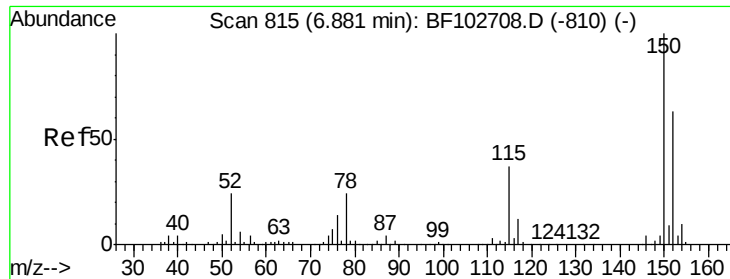
Data Path : Z:\HPCHEM1\BNA F\DATA\BF021518\
Data File : BF103024.D
Acq On : 15 Feb 2018 18:16
Operator : SJ/JU
Sample : J1540-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
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Quant Time: Feb 16 00:02:29 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 15 14:08:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.87 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampleId :

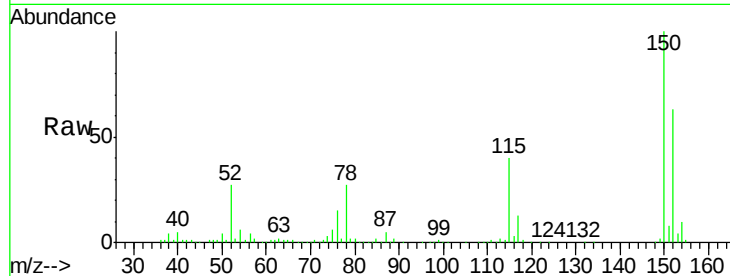
Tot Ion:152 Resp: 178111

Ion Ratio Lower Upper

152 100

150 158.7 124.6 186.8

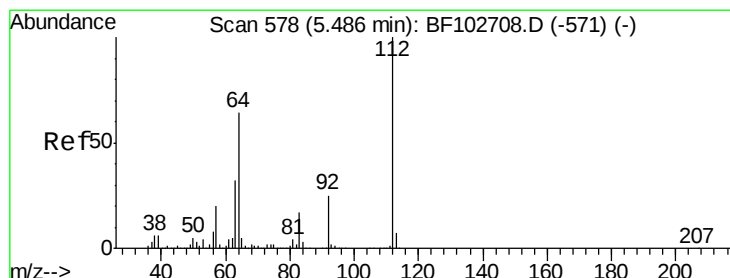
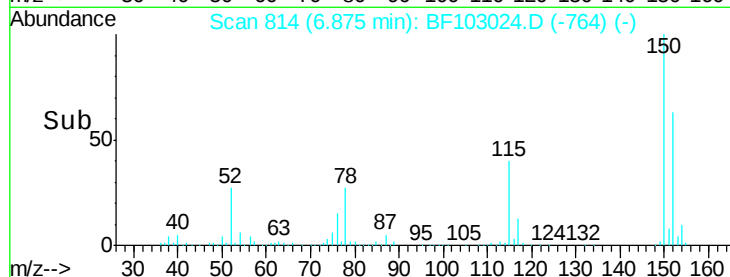
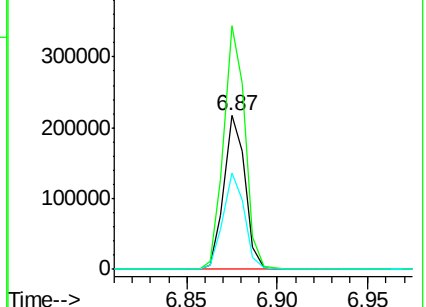
115 63.1 50.1 75.1



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: 103.02 ng

RT: 5.50 min Scan# 580

Delta R.T. 0.01 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

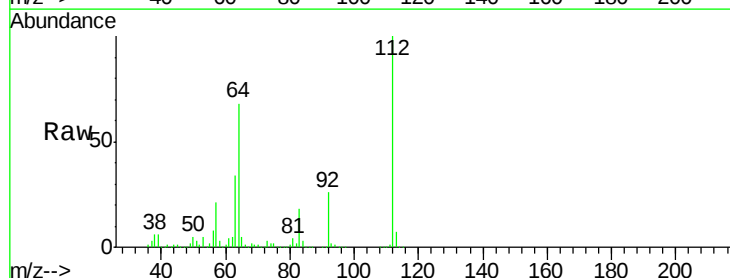
Tgt Ion:112 Resp: 1208218

Ion Ratio Lower Upper

112 100

64 67.9 47.9 71.9

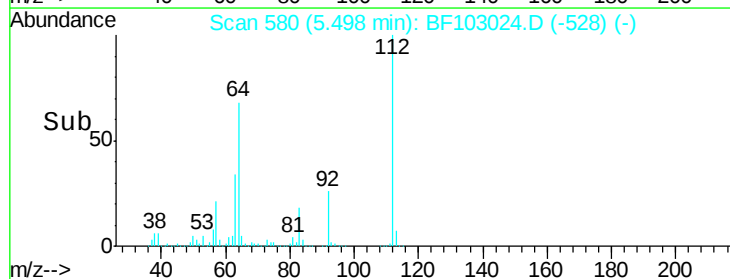
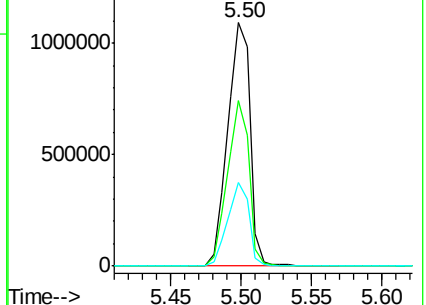
63 34.4 23.7 35.5

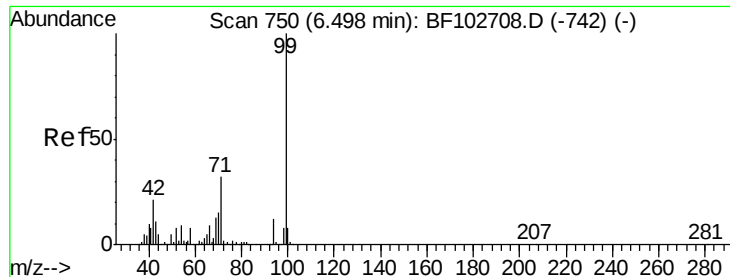


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 103.04 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.00 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampleId :

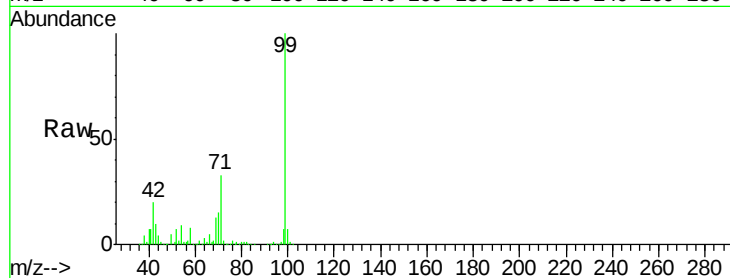
Tot Ion: 99 Resp: 1455054

Ion Ratio Lower Upper

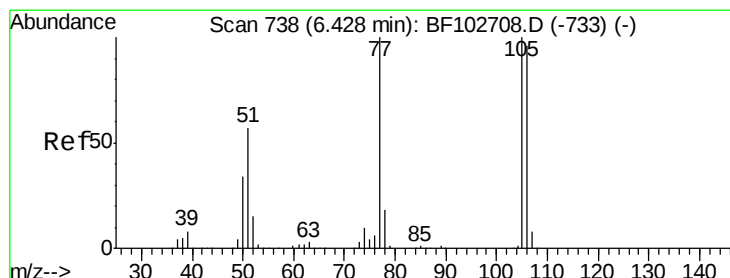
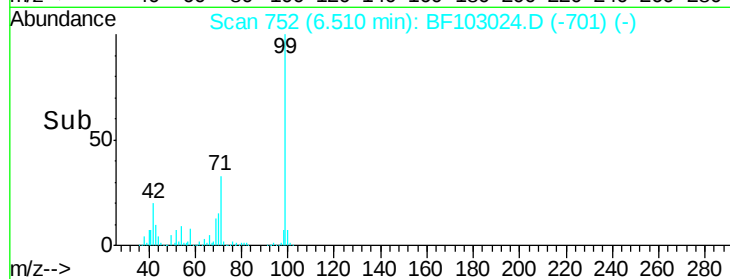
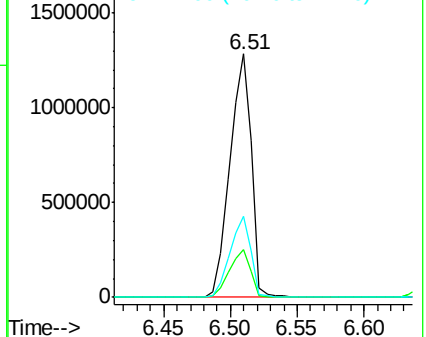
99 100

42 19.6 14.5 21.7

71 33.3 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



#9

Benzaldehyde

Concen: 2.43 ng

RT: 6.65 min Scan# 776

Delta R.T. 0.22 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

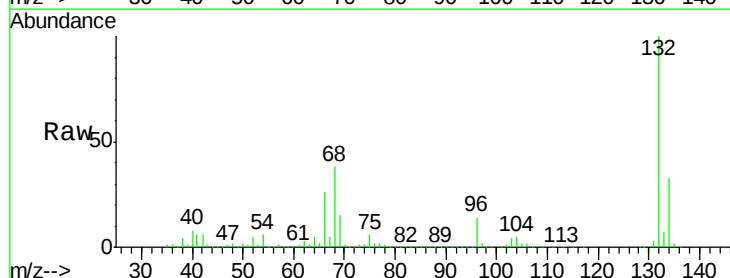
Tgt Ion: 77 Resp: 25530

Ion Ratio Lower Upper

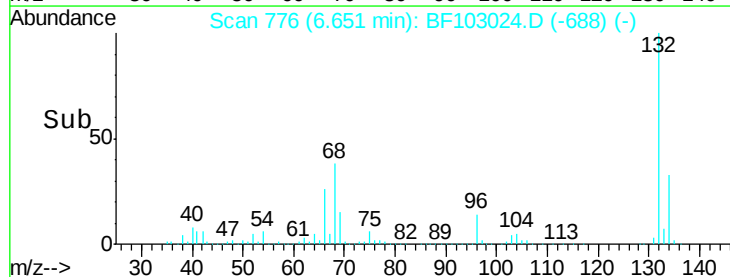
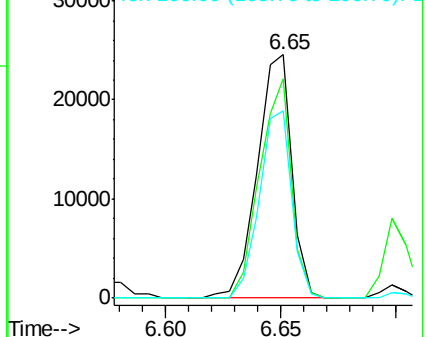
77 100

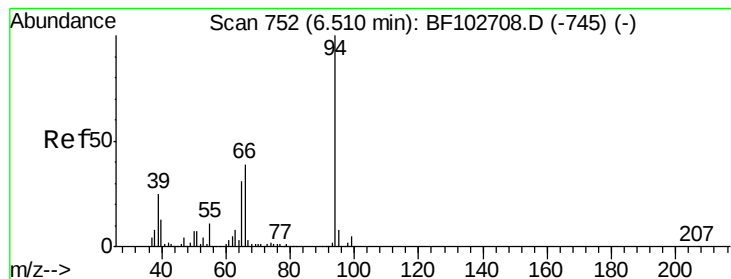
105 90.1 81.1 121.1

106 76.9 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): BF1
Ion 106.00 (105.70 to 106.70): BF1





#10

Phenol

Concen: 8.63 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.00 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampled :

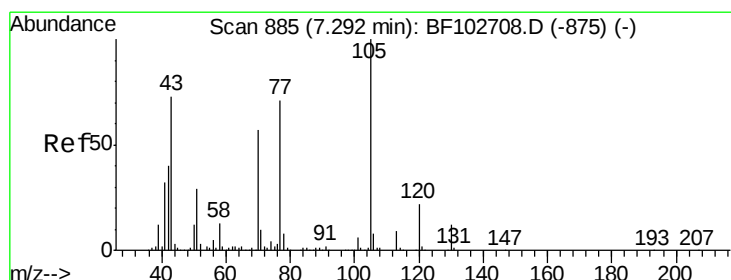
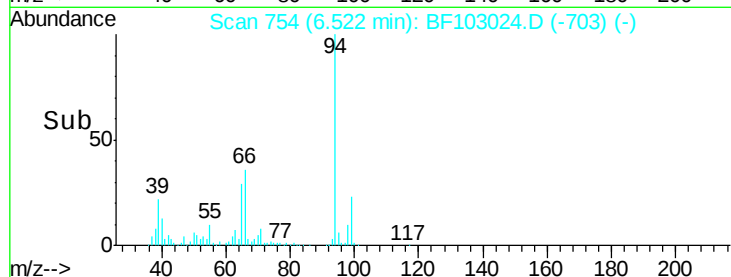
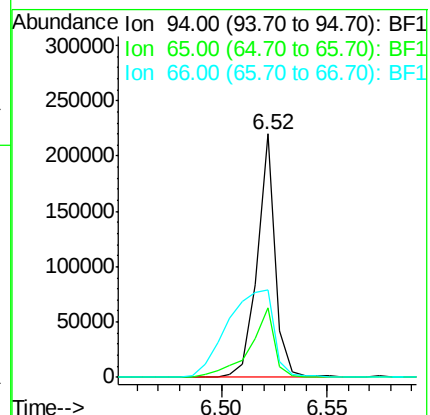
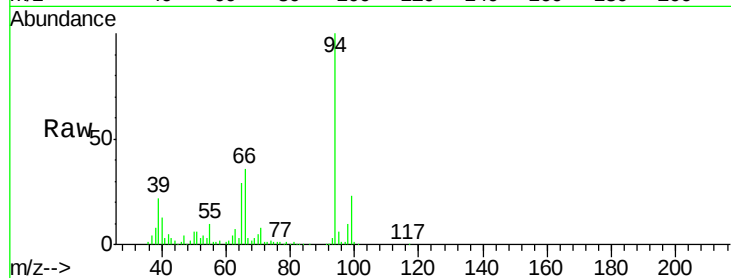
Tot Ion: 94 Resp: 130552

Ion Ratio Lower Upper

94 100

65 28.6 7.9 47.9

66 36.2 16.2 56.2



#19

n-Nitroso-di-n-propylamine

Concen: 13.00 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Tgt Ion: 70 Resp: 121012

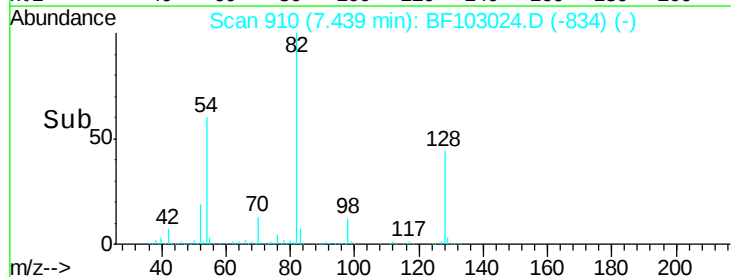
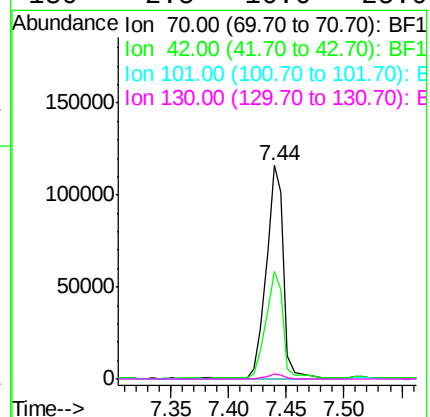
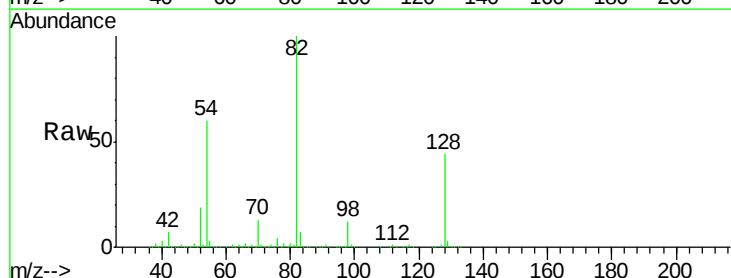
Ion Ratio Lower Upper

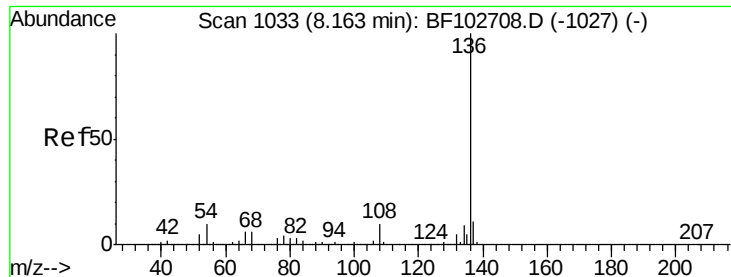
70 100

42 50.5 47.5 71.3

101 0.0 7.4 11.2#

130 2.5 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 726724

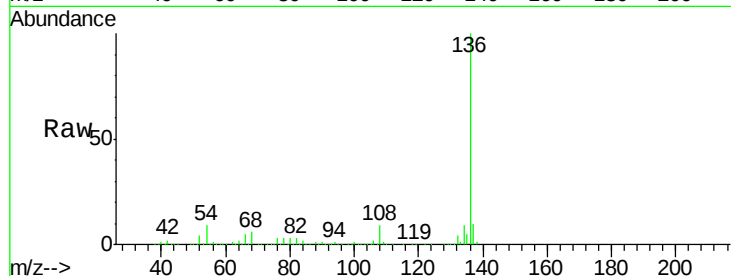
Ion Ratio Lower Upper

136 100

137 10.1 8.9 13.3

54 9.0 6.6 9.8

68 5.8 5.0 7.4

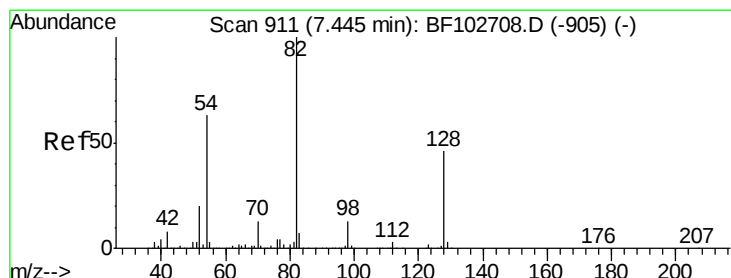
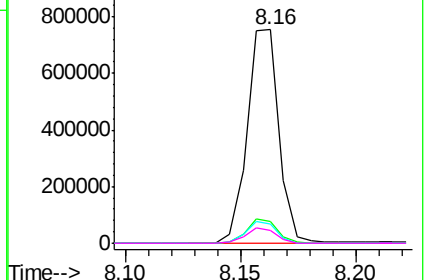
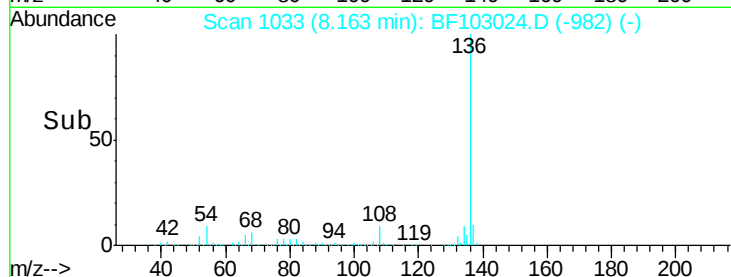


Abundance Ion 136.00 (135.70 to 136.70): E

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: 87.86 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

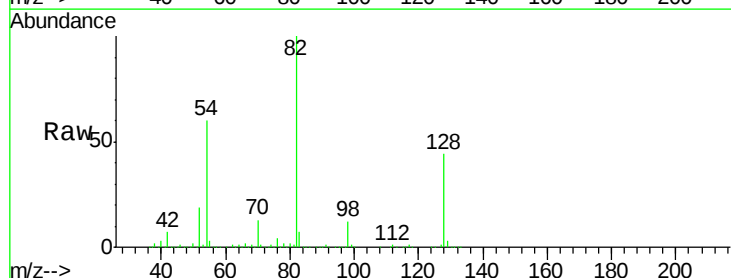
Tgt Ion: 82 Resp: 920371

Ion Ratio Lower Upper

82 100

128 44.3 36.1 54.1

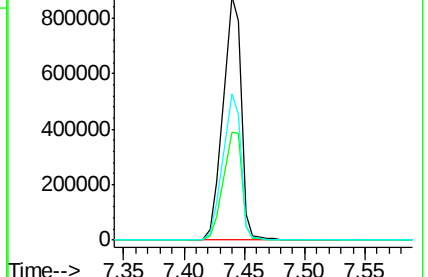
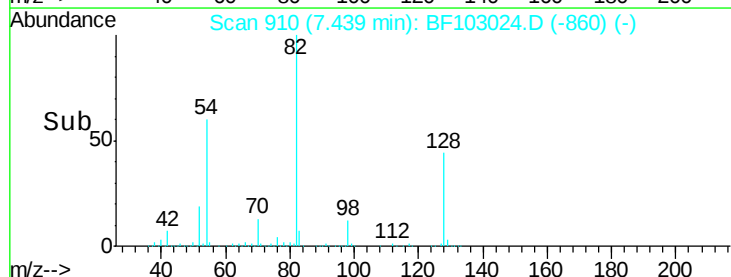
54 60.0 41.4 62.2

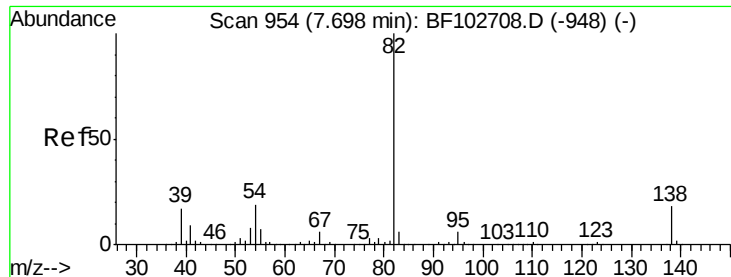


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 38.15 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampled :

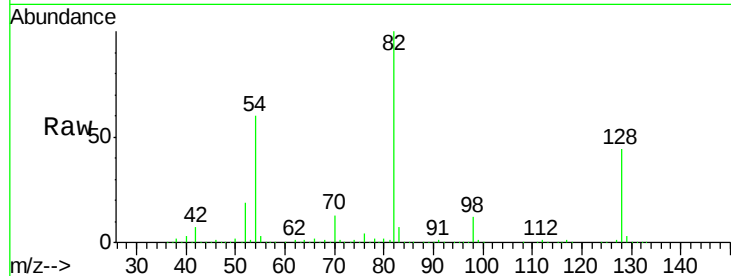
Tot Ion: 82 Resp: 920365

Ion Ratio Lower Upper

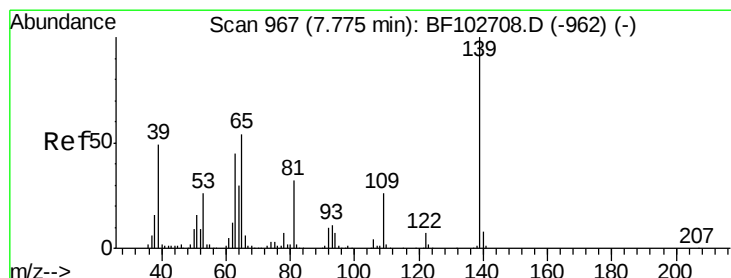
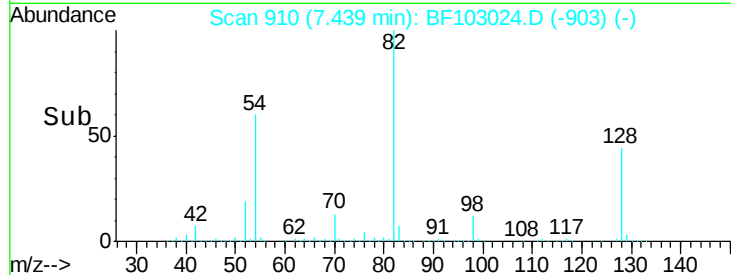
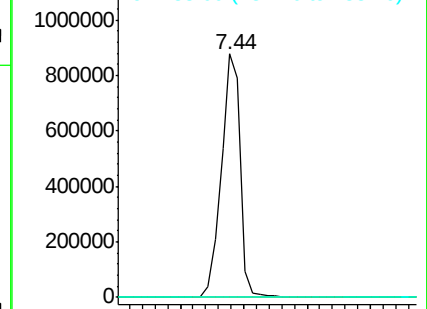
82 100

95 0.1 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1



#26

2-Nitrophenol

Concen: 8.68 ng

RT: 7.77 min Scan# 966

Delta R.T. -0.01 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

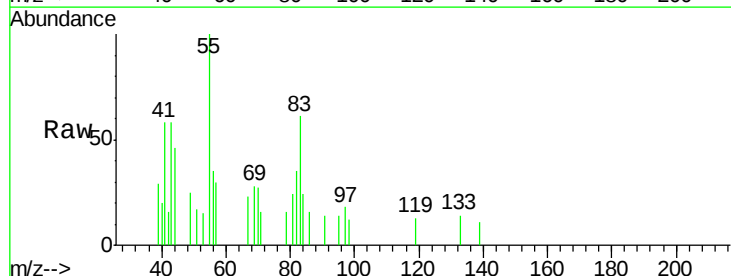
Tgt Ion: 139 Resp: 108

Ion Ratio Lower Upper

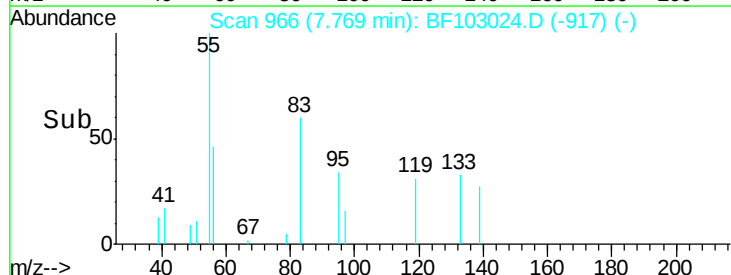
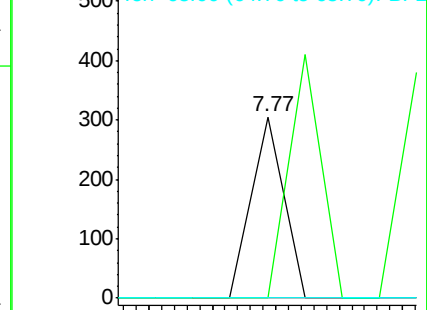
139 100

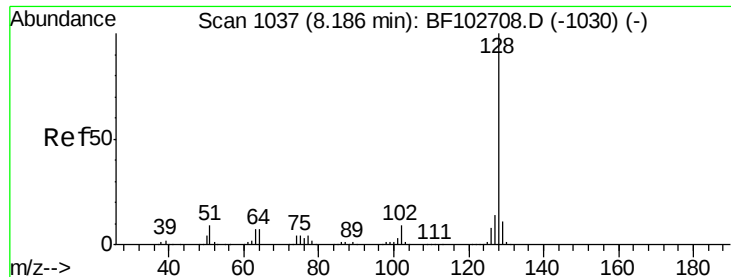
109 0.0 22.7 34.1#

65 0.0 40.5 60.7#



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

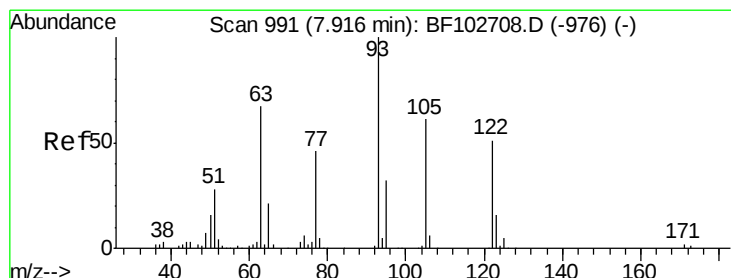
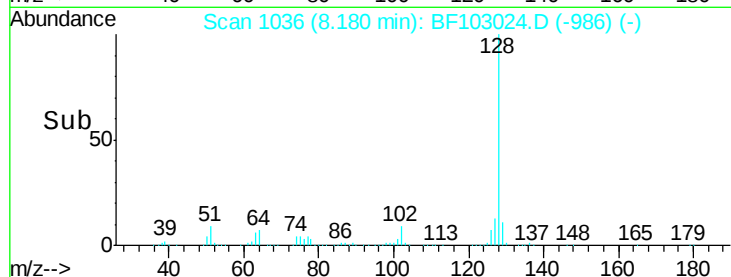
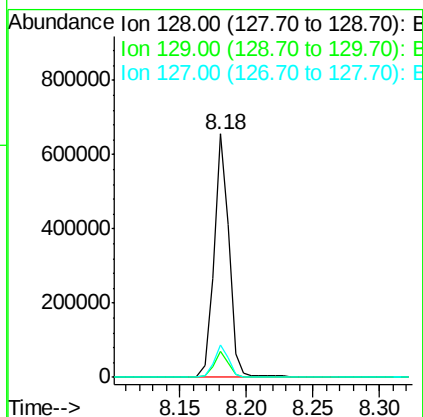
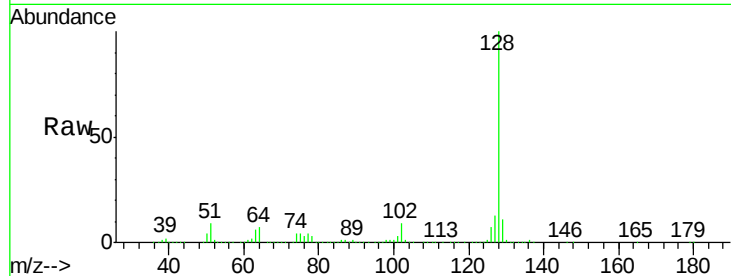




#31
Naphthalene
Concen: 14.66 ng
RT: 8.18 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF103024.D
Acq: 15 Feb 2018 18:16

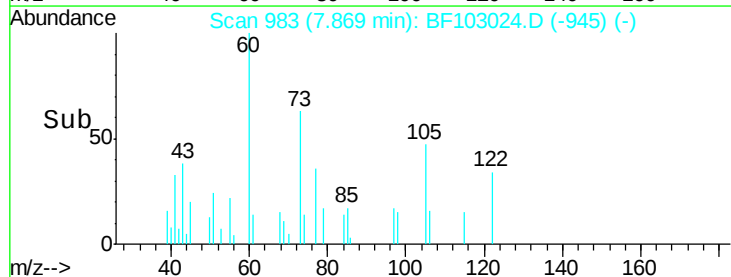
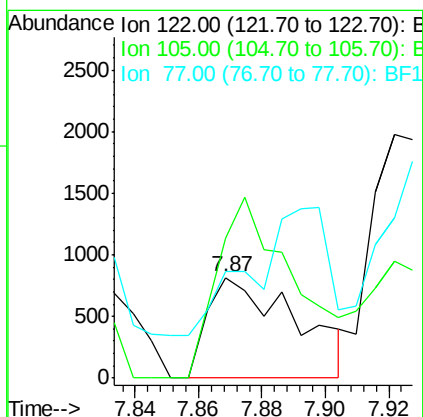
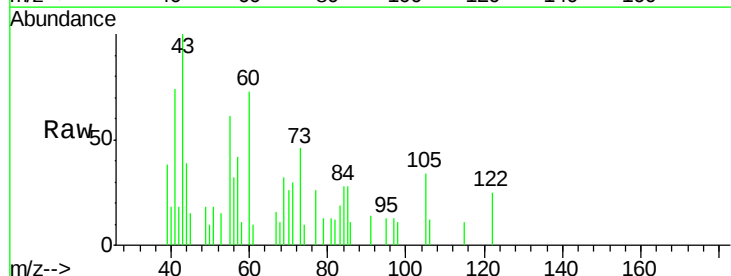
Instrument :
BNA_F
ClientSampleId :

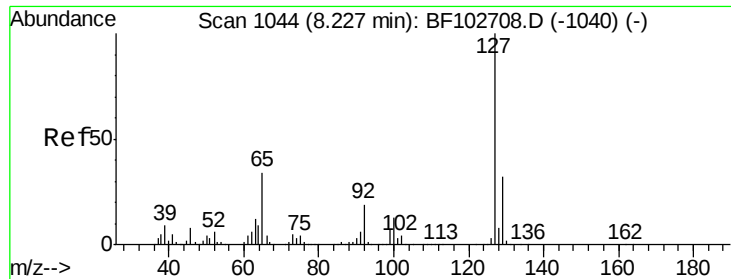
Tot Ion:128 Resp: 520540
Ion Ratio Lower Upper
128 100
129 10.7 8.8 13.2
127 13.3 10.9 16.3



#32
Benzoic acid
Concen: 8.75 ng
RT: 7.87 min Scan# 983
Delta R.T. -0.08 min
Lab File: BF103024.D
Acq: 15 Feb 2018 18:16

Tgt Ion:122 Resp: 1572
Ion Ratio Lower Upper
122 100
105 138.9 101.1 141.1
77 106.3 70.7 110.7

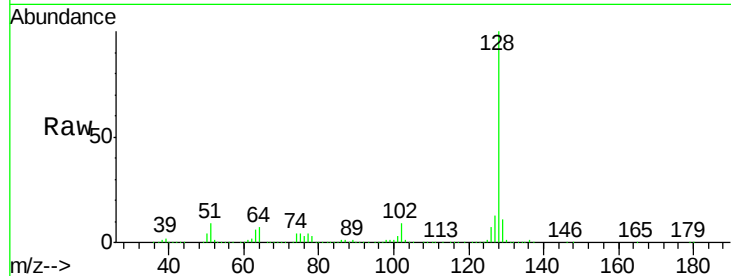




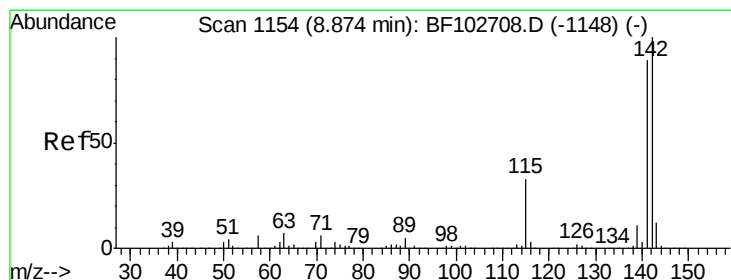
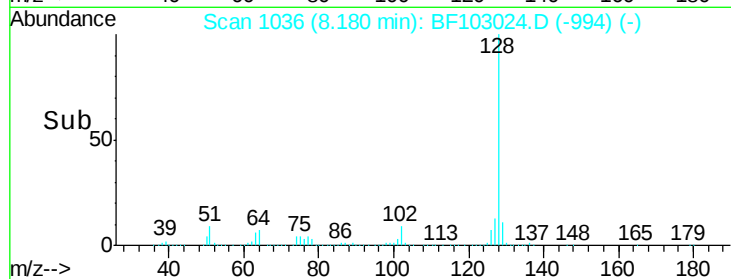
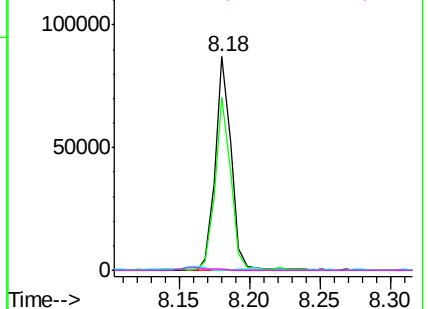
#33
 4-Chloroaniline
 Concen: 4.48 ng
 RT: 8.18 min Scan# 1036
 Delta R.T. -0.05 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	127	Resp:	68563
Ion	Ratio	Lower	Upper
127	100		
129	81.0	25.9	38.9#
65	0.0	25.0	37.4#
92	0.5	15.2	22.8#

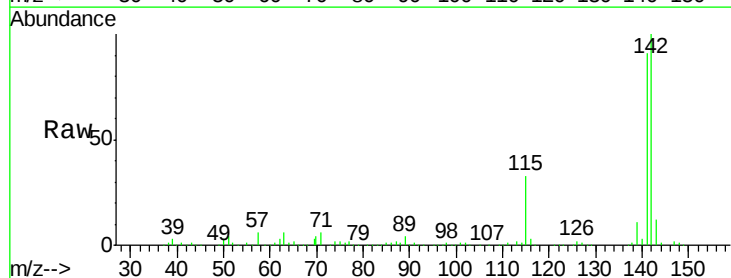


Abundance Ion 127.00 (126.70 to 127.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 65.00 (64.70 to 65.70): BF1
 Ion 92.00 (91.70 to 92.70): BF1

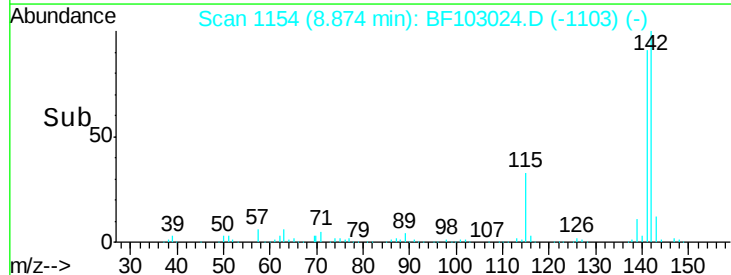
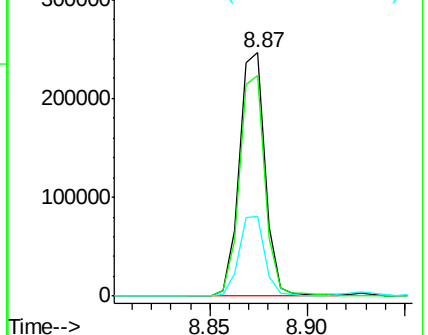


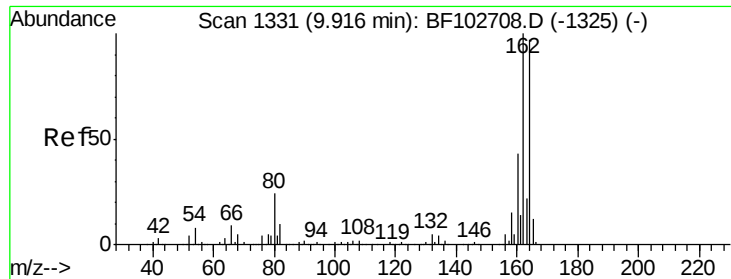
#37
 2-Methylnaphthalene
 Concen: 9.77 ng
 RT: 8.87 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

Tgt Ion:	142	Resp:	227060
Ion	Ratio	Lower	Upper
142	100		
141	90.7	70.8	106.2
115	32.7	26.1	39.1



Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

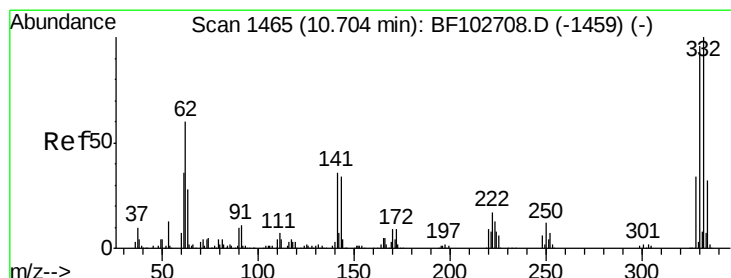
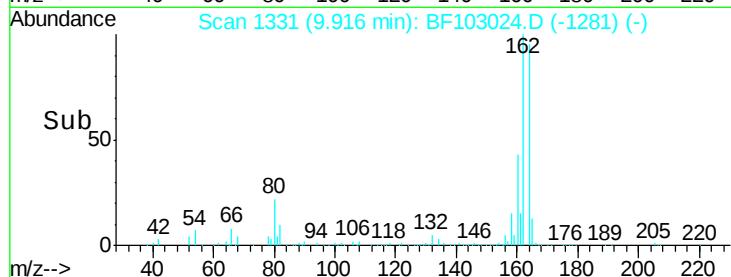
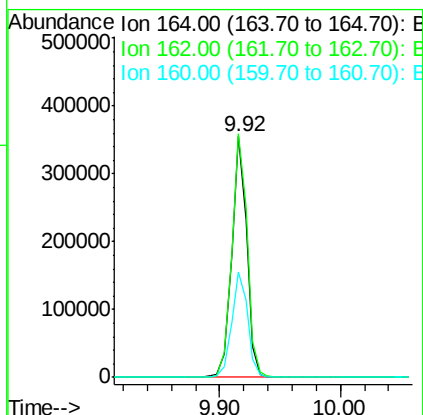
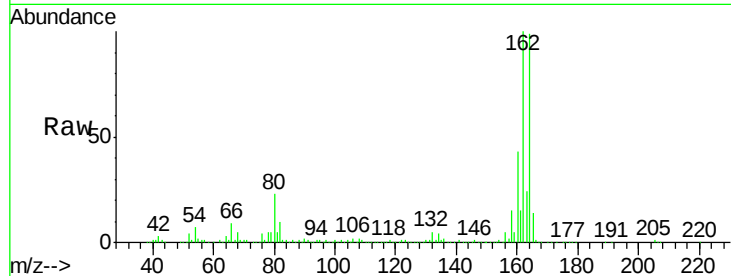




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

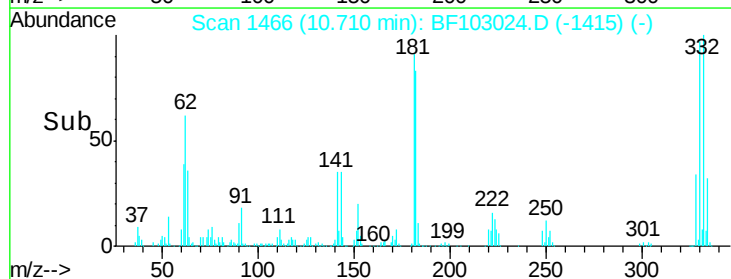
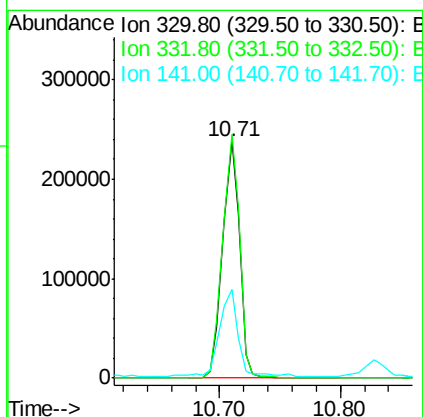
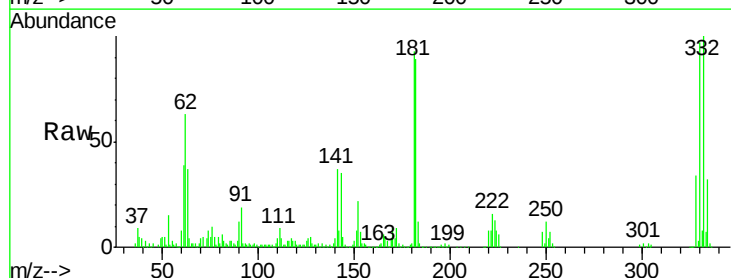
Instrument :
 BNA_F
 ClientSampleId :

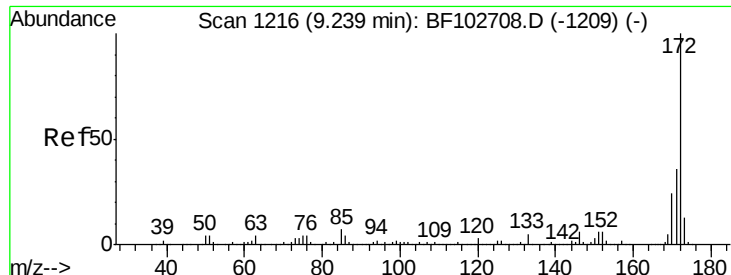
Tot Ion	Ratio	Lower	Upper
164	100		
162	101.1	86.1	129.1
160	43.6	38.3	57.5



#41
 2,4,6-Tribromophenol
 Concen: 93.75 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

Tgt Ion	Ratio	Lower	Upper
330	100		
332	103.3	77.0	115.6
141	41.0	29.9	44.9



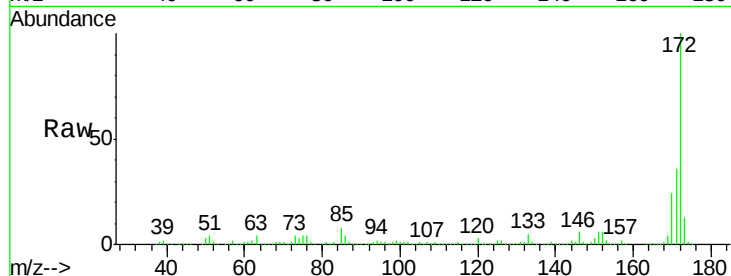


#44
 2-Fluorobiphenyl
 Concen: 73.26 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

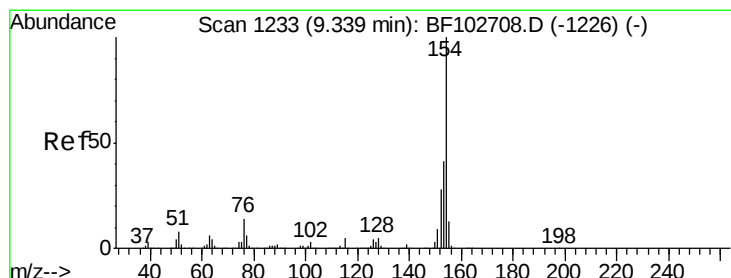
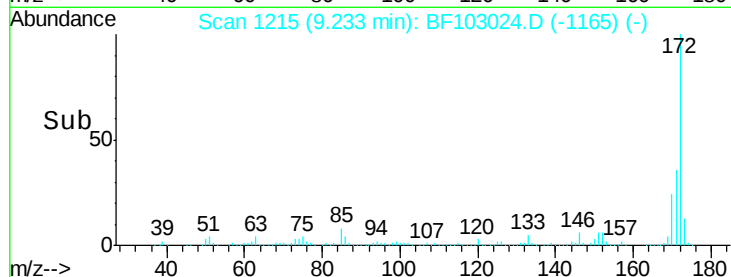
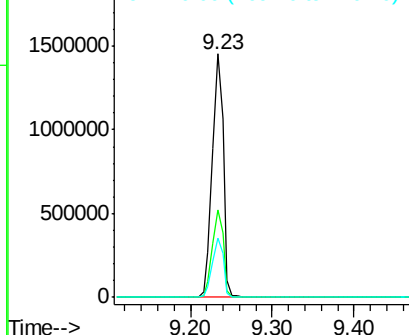
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 1358343

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.7	44.5
170	24.4	19.6	29.4



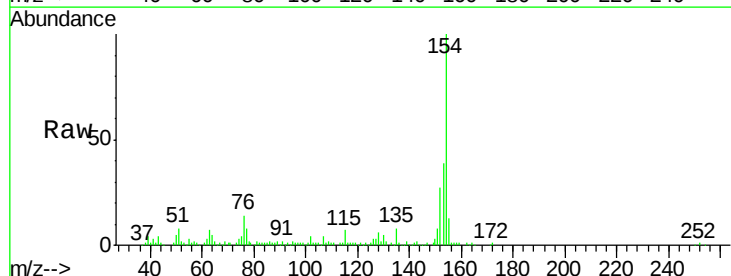
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



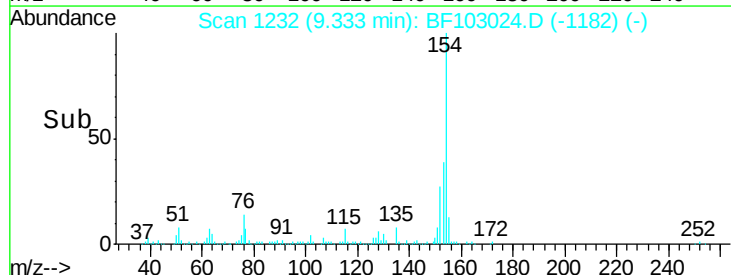
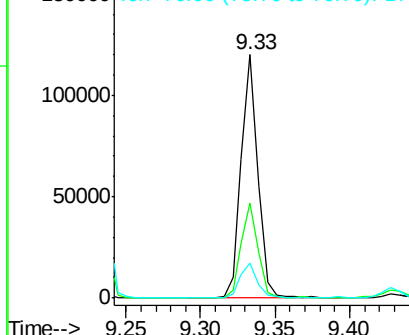
#45
 1,1'-Biphenyl
 Concen: 3.65 ng
 RT: 9.33 min Scan# 1232
 Delta R.T. -0.01 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

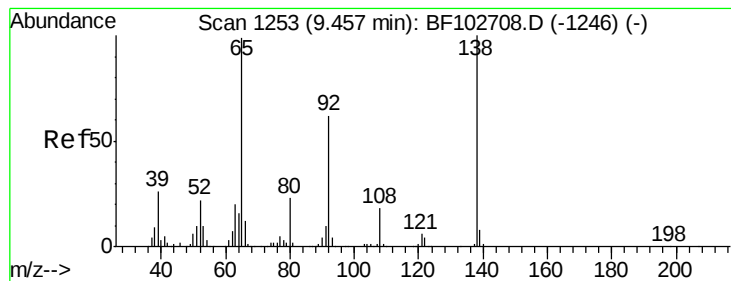
Tgt Ion:154 Resp: 94703

Ion	Ratio	Lower	Upper
154	100		
153	39.1	21.3	61.3
76	14.2	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





#47

2-Nitroaniline

Concen: 3.67 ng

RT: 9.43 min Scan# 1248

Delta R.T. -0.04 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampleId :

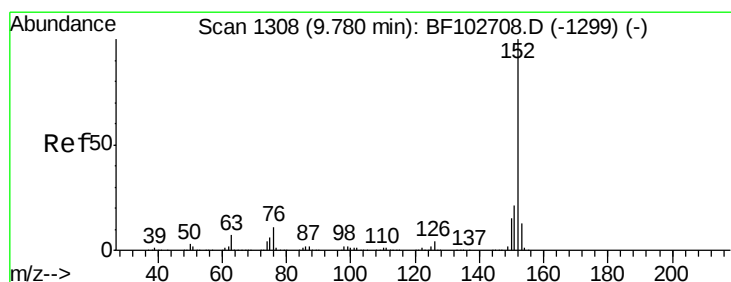
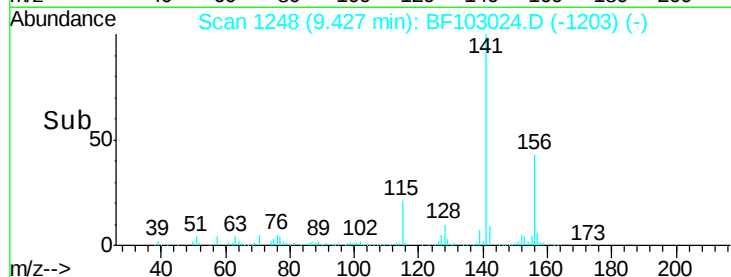
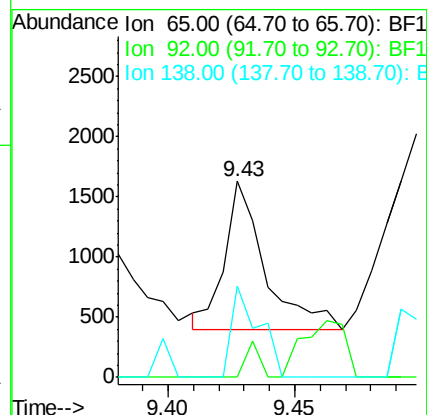
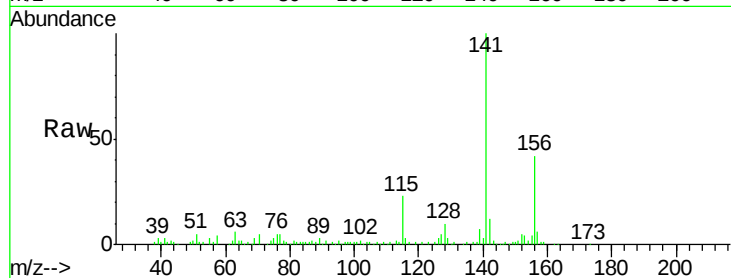
Tot Ion: 65 Resp: 1362

Ion Ratio Lower Upper

65 100

92 0.0 55.8 83.6#

138 46.5 91.2 136.8#



#48

Acenaphthylene

Concen: 2.64 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

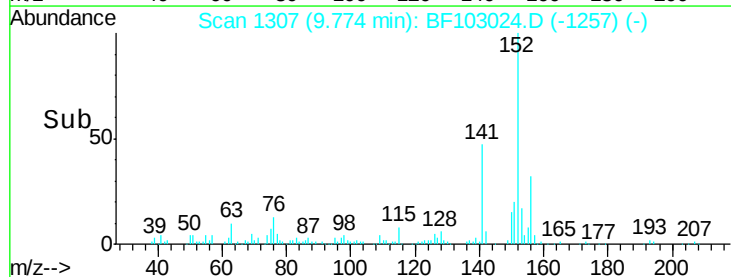
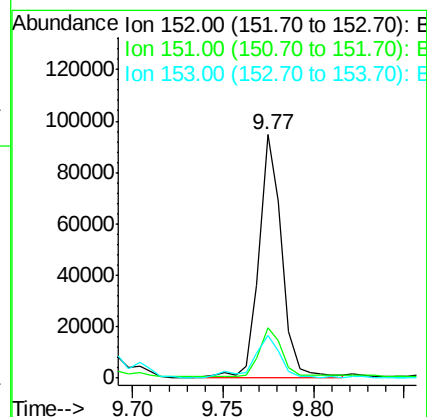
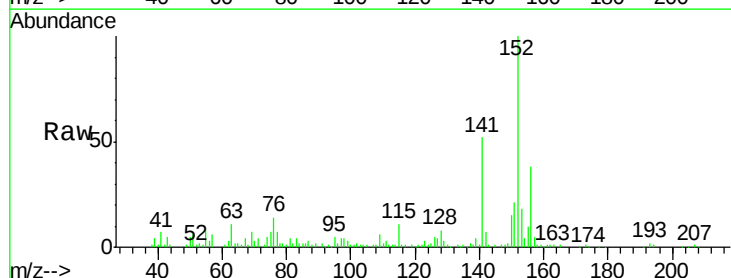
Tgt Ion: 152 Resp: 83654

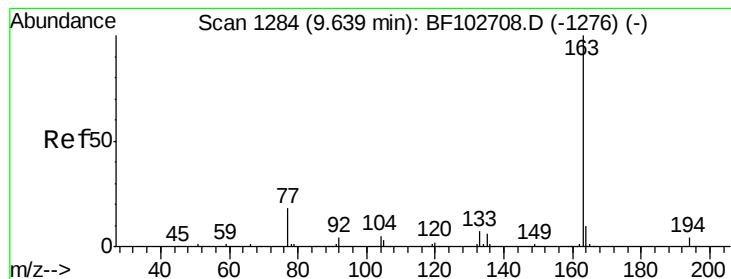
Ion Ratio Lower Upper

152 100

151 20.5 16.3 24.5

153 17.7 10.7 16.1#





#49

Dimethylphthalate

Concen: 5.32 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.01 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampleId :

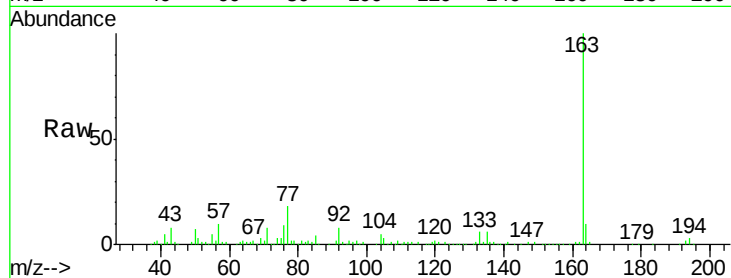
Tot Ion:163 Resp: 127534

Ion Ratio Lower Upper

163 100

194 3.2 2.7 4.1

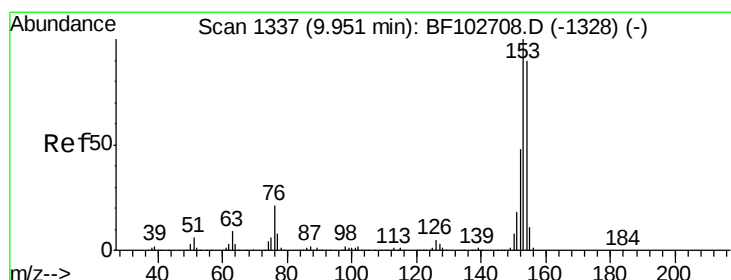
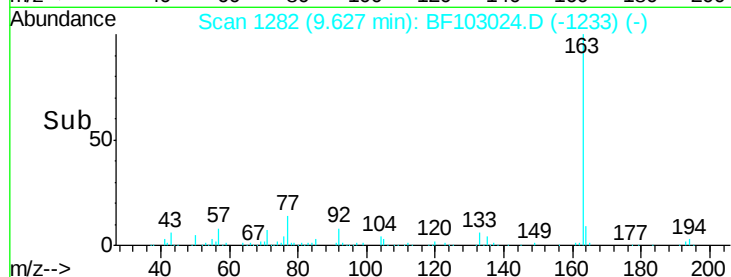
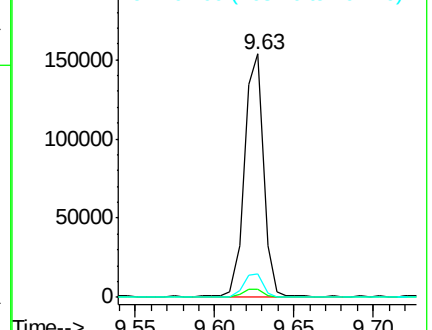
164 9.5 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 53.33 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

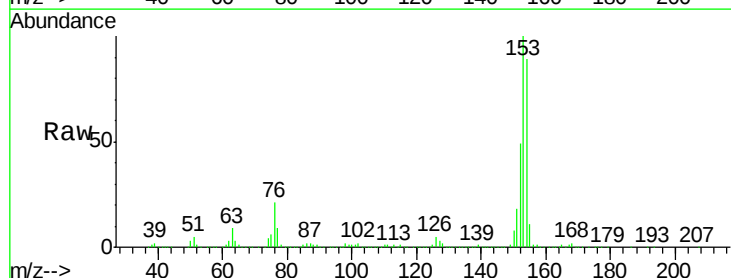
Tgt Ion:154 Resp: 1010561

Ion Ratio Lower Upper

154 100

153 112.6 91.2 136.8

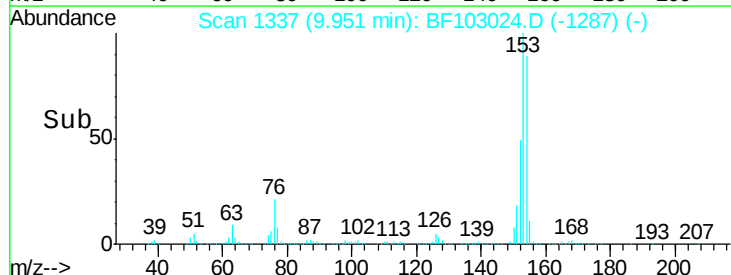
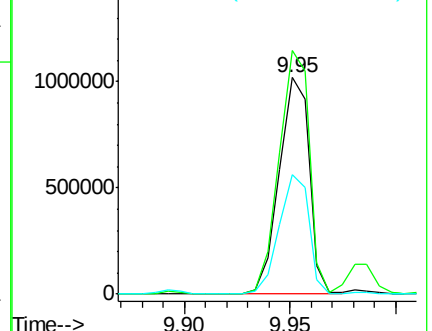
152 55.0 43.8 65.8

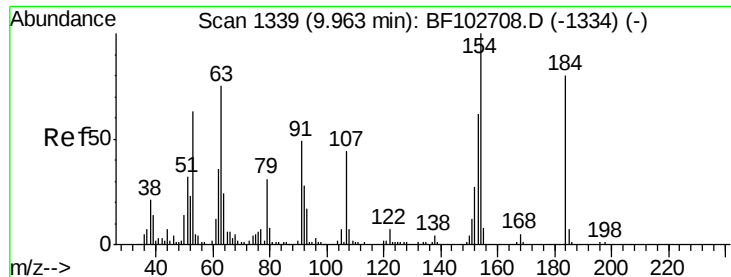


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

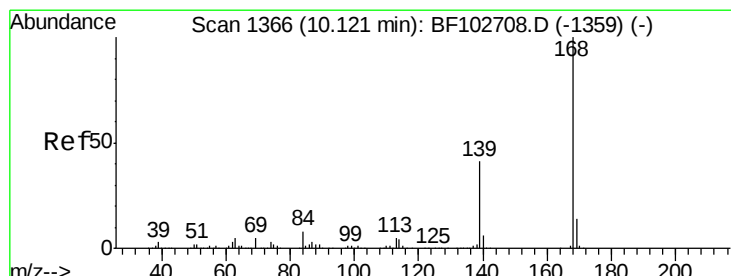
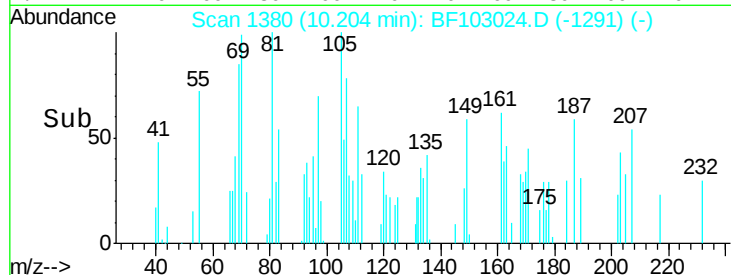
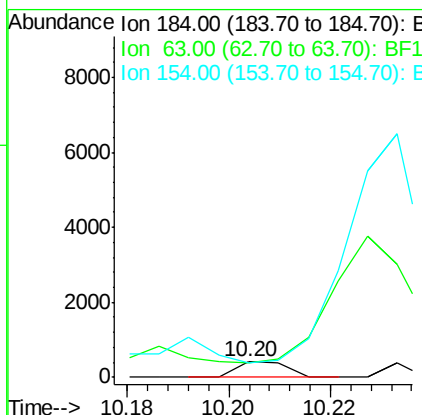
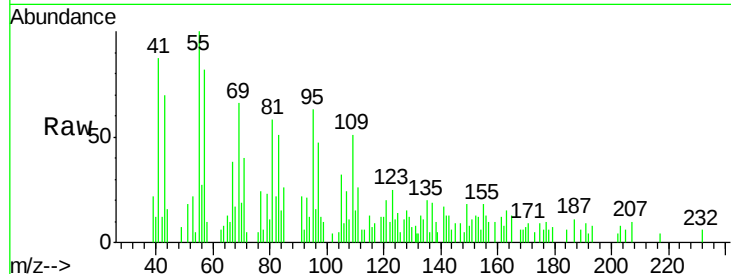




#53
 2,4-Dinitrophenol
 Concen: 8.28 ng
 RT: 10.20 min Scan# 1380
 Delta R.T. 0.22 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

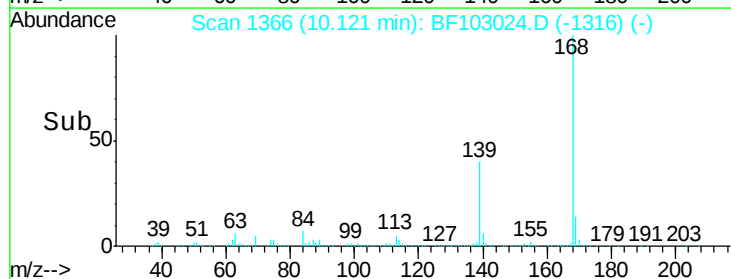
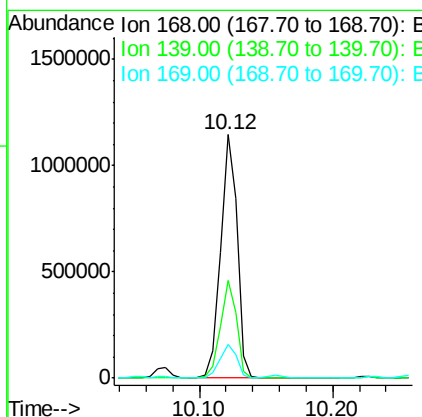
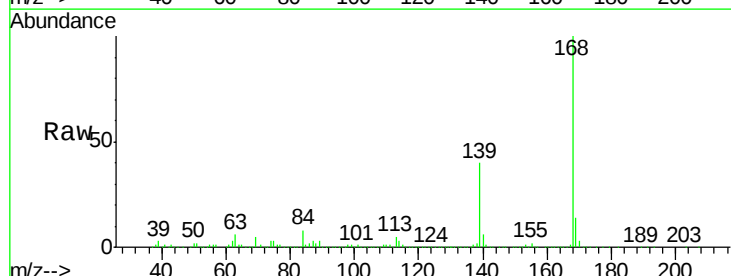
Instrument :
 BNA_F
 ClientSampled :

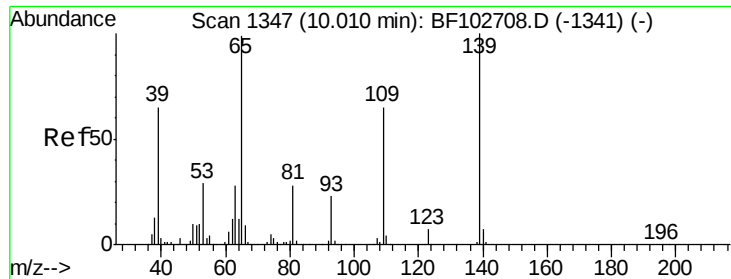
Tot Ion:184 Resp: 284
 Ion Ratio Lower Upper
 184 100
 63 94.2 54.2 81.2#
 154 96.4 184.0 276.0#



#54
 Dibenzofuran
 Concen: 37.75 ng
 RT: 10.12 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

Tgt Ion:168 Resp: 1008148
 Ion Ratio Lower Upper
 168 100
 139 40.2 30.1 45.1
 169 14.0 10.9 16.3

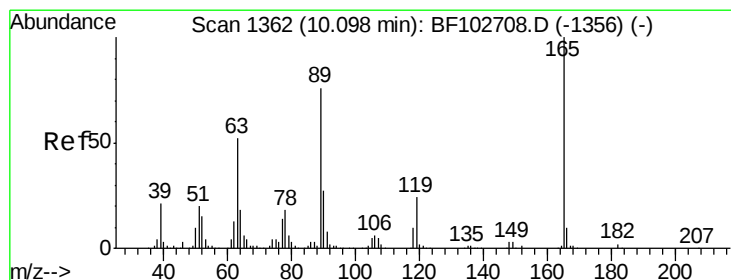
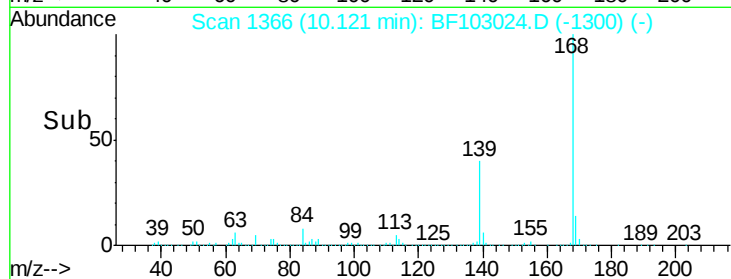
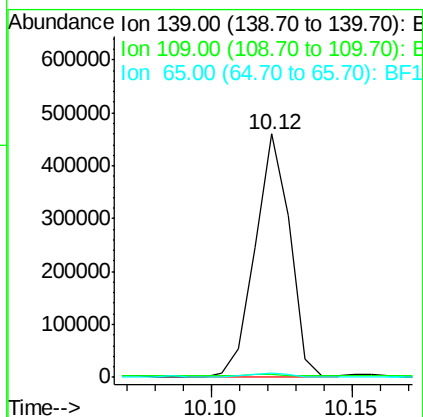
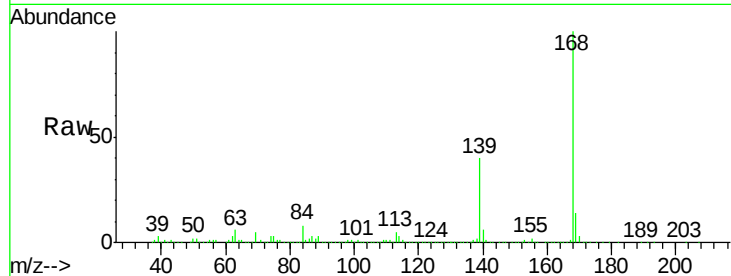




#55
4-Nitrophenol
Concen: 84.86 ng
RT: 10.12 min Scan# 1366
Delta R.T. 0.09 min
Lab File: BF103024.D
Acq: 15 Feb 2018 18:16

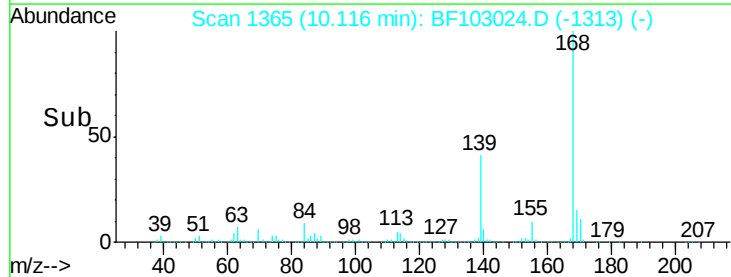
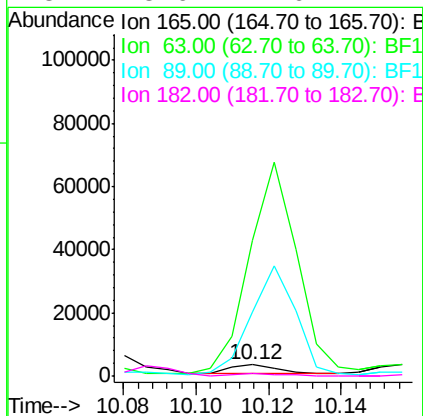
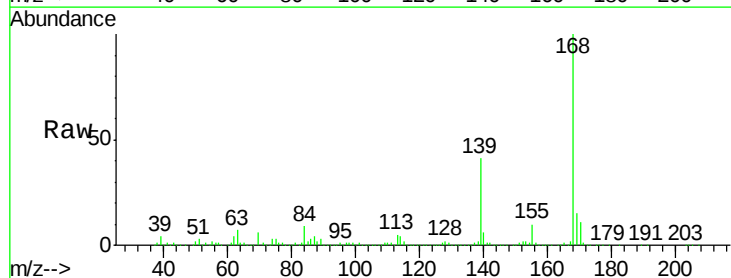
Instrument :
BNA_F
ClientSampleId :

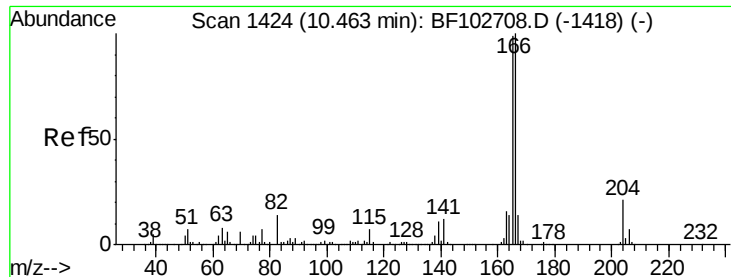
Tot Ion:139 Resp: 392856
Ion Ratio Lower Upper
139 100
109 1.3 48.4 88.4#
65 1.8 72.6 112.6#



#56
2,4-Dinitrotoluene
Concen: 3.47 ng
RT: 10.12 min Scan# 1365
Delta R.T. 0.01 min
Lab File: BF103024.D
Acq: 15 Feb 2018 18:16

Tgt Ion:165 Resp: 2601
Ion Ratio Lower Upper
165 100
63 1234.9 36.4 54.6#
89 586.4 57.8 86.6#
182 18.6 1.6 2.4#

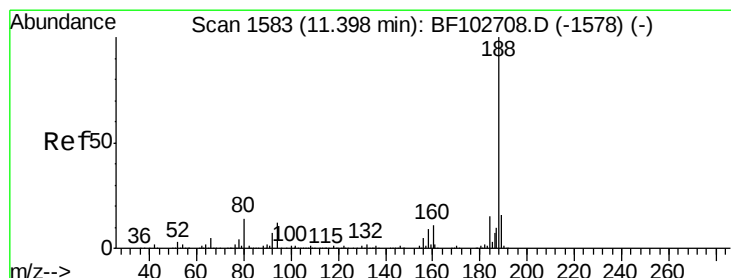
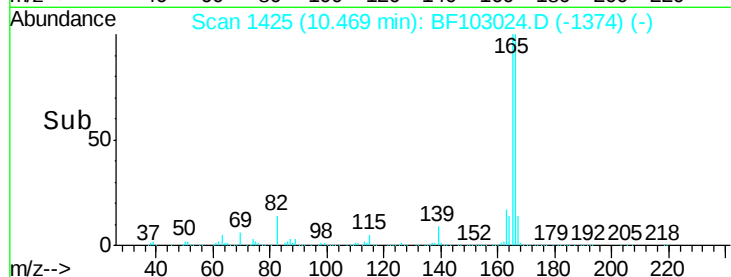
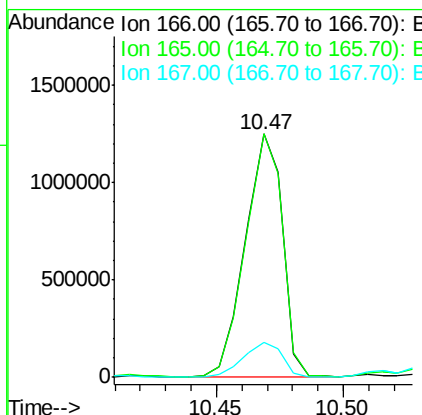
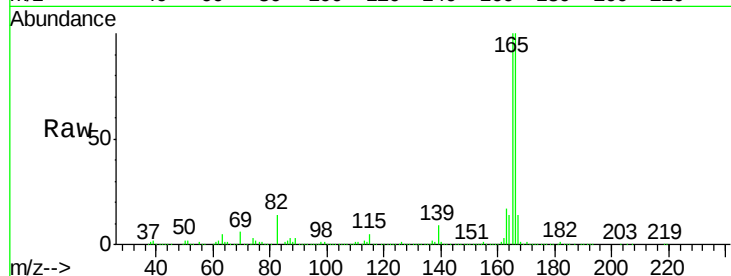




#57
 Fluorene
 Concen: 65.44 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.00 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

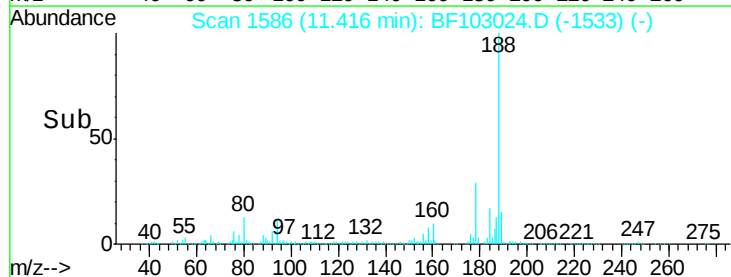
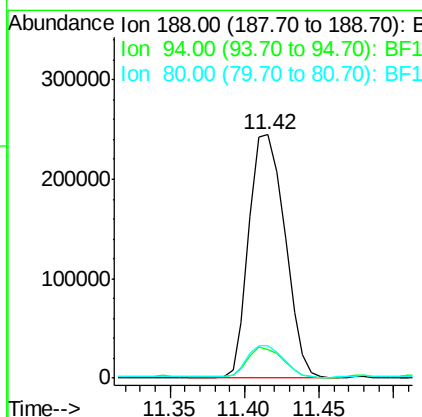
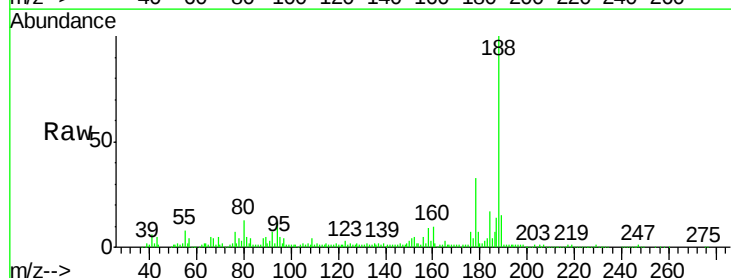
Instrument :
 BNA_F
 ClientSampleId :

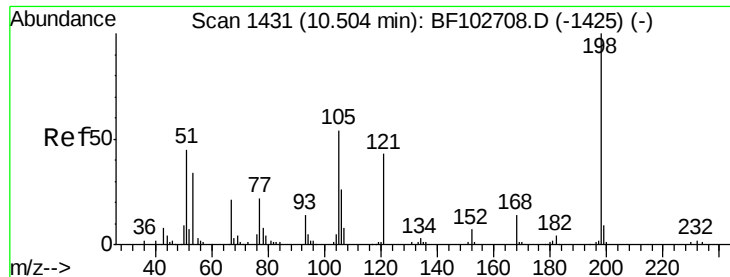
Tot Ion:166 Resp: 1271609
 Ion Ratio Lower Upper
 166 100
 165 99.9 79.8 119.8
 167 14.4 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

Tgt Ion:188 Resp: 408636
 Ion Ratio Lower Upper
 188 100
 94 11.6 8.5 12.7
 80 13.3 9.2 13.8

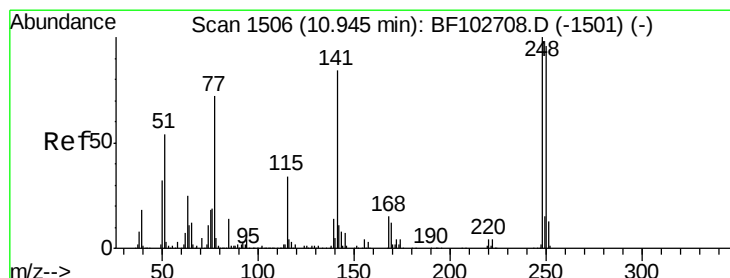
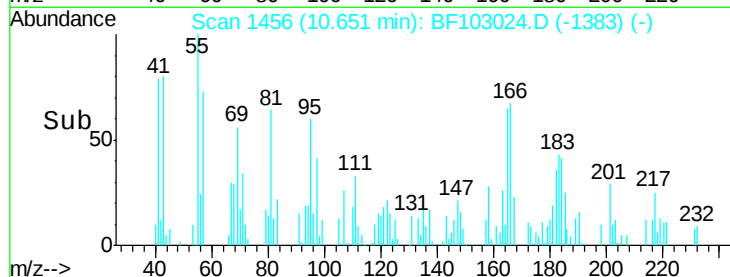
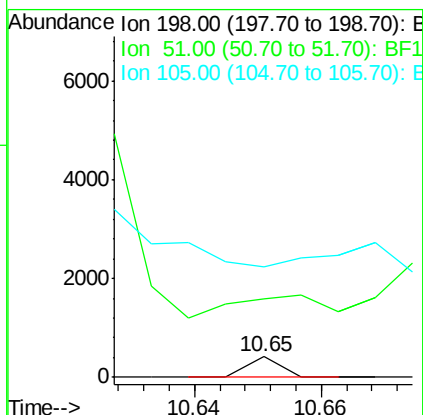
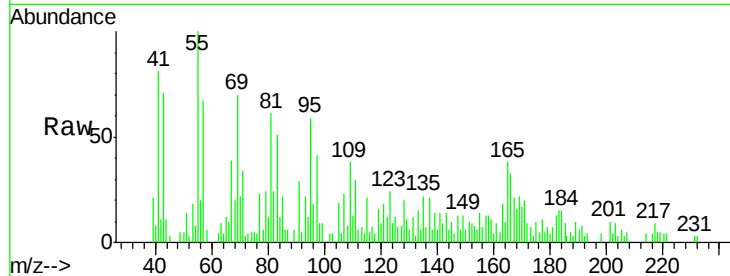




#64
 4,6-Dinitro-2-methylphenol
 Concen: 8.87 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. 0.13 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

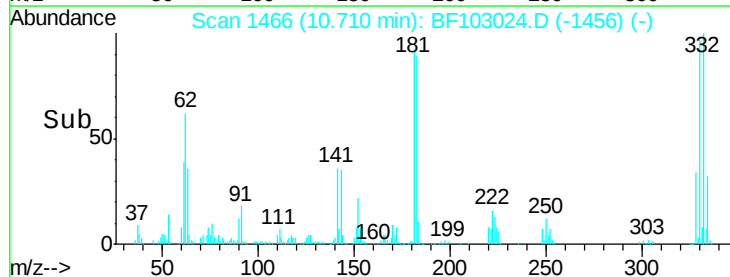
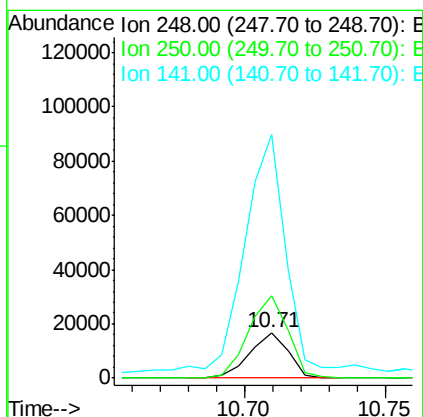
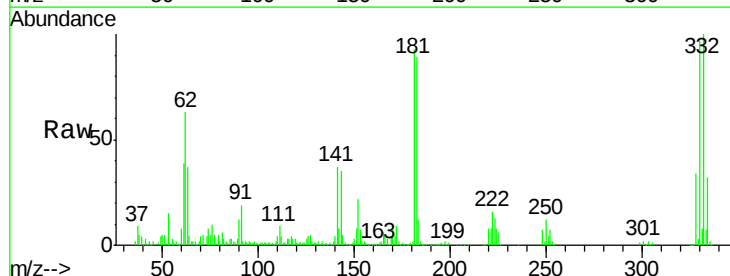
Instrument :
 BNA_F
 ClientSampled :

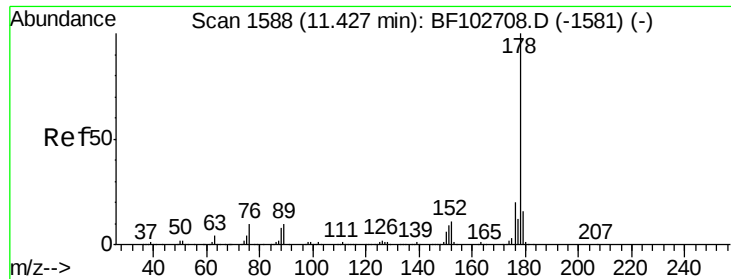
Tot Ion:198 Resp: 149
 Ion Ratio Lower Upper
 198 100
 51 377.0 37.7 77.7#
 105 533.7 36.3 76.3#



#66
 4-Bromophenyl-phenylether
 Concen: 3.66 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.24 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

Tgt Ion:248 Resp: 15806
 Ion Ratio Lower Upper
 248 100
 250 180.5 76.9 115.3#
 141 531.7 74.4 111.6#

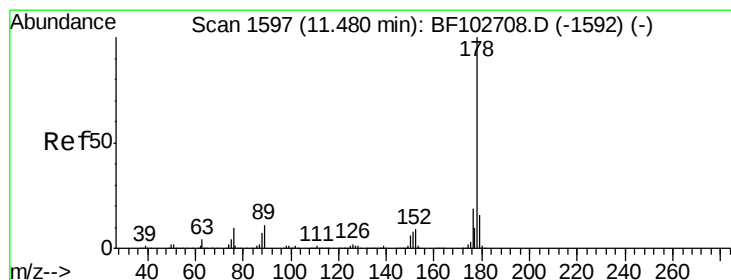
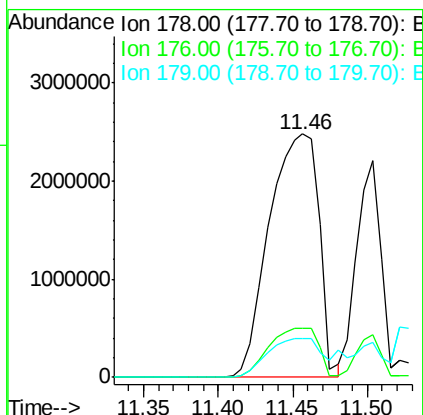
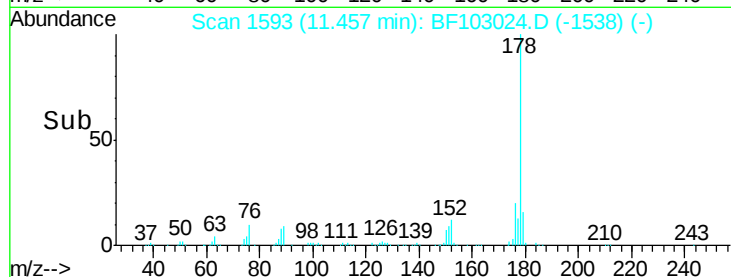
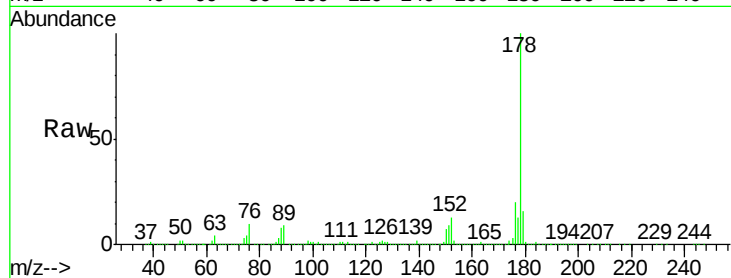




#70
Phenanthrene
Concen: 251.15 ng
RT: 11.46 min Scan# 1593
Delta R.T. 0.02 min
Lab File: BF103024.D
Acq: 15 Feb 2018 18:16

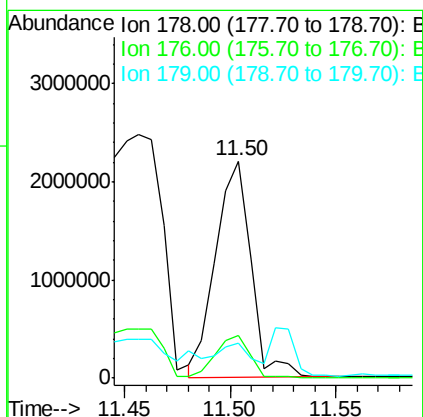
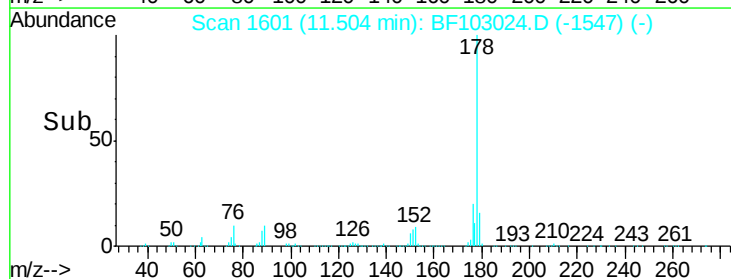
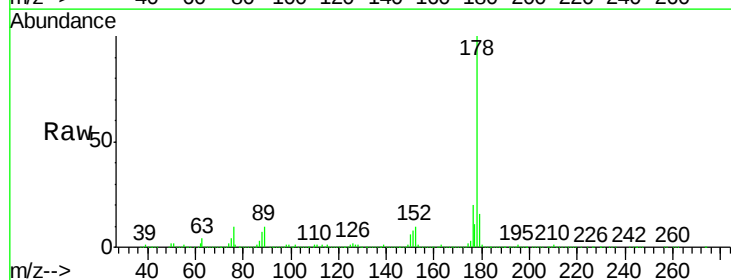
Instrument :
BNA_F
ClientSampleId :

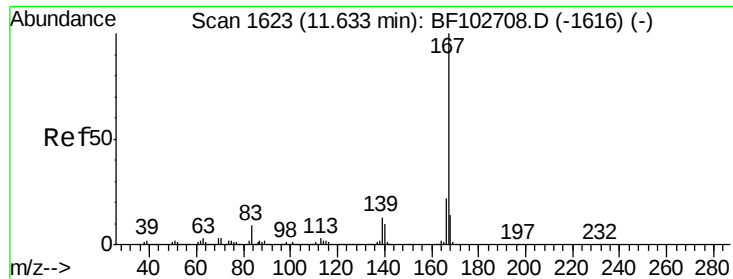
Tot Ion:178 Resp: 5715648
Ion Ratio Lower Upper
178 100
176 20.2 15.8 23.8
179 16.2 13.0 19.6



#71
Anthracene
Concen: 110.23 ng
RT: 11.50 min Scan# 1601
Delta R.T. 0.02 min
Lab File: BF103024.D
Acq: 15 Feb 2018 18:16

Tgt Ion:178 Resp: 2551502
Ion Ratio Lower Upper
178 100
176 19.9 15.4 23.2
179 16.2 12.6 19.0

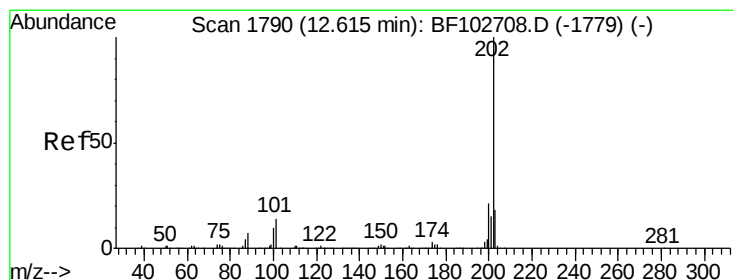
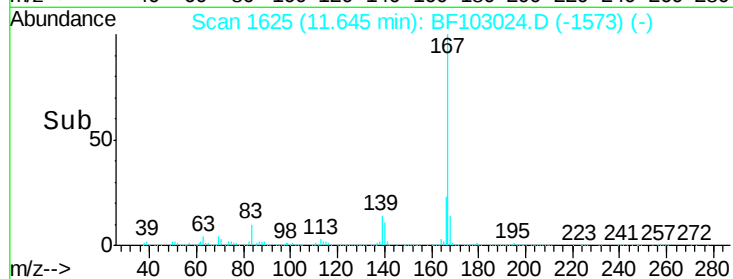
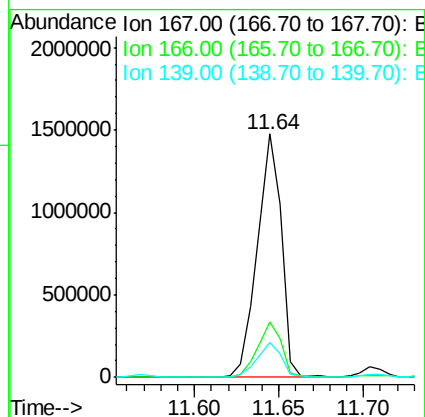
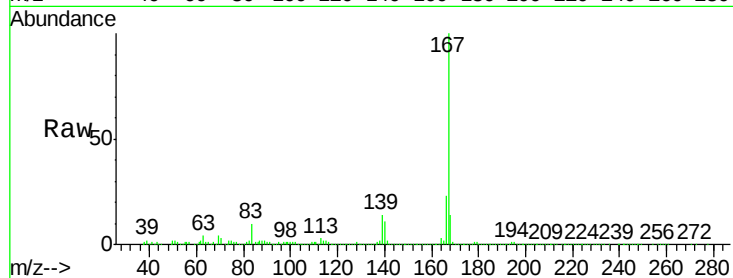




#72
 Carbazole
 Concen: 64.43 ng
 RT: 11.64 min Scan# 1625
 Delta R.T. 0.01 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

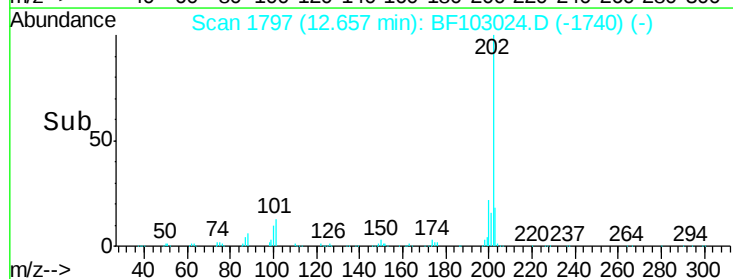
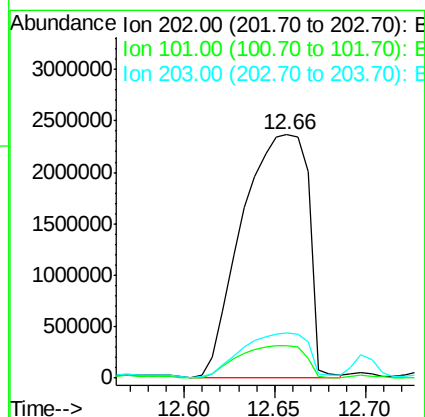
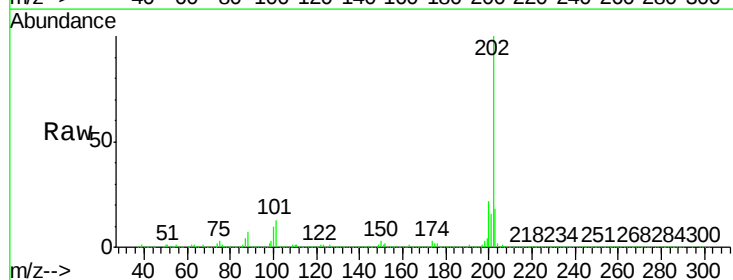
Instrument :
 BNA_F
 ClientSampleId :

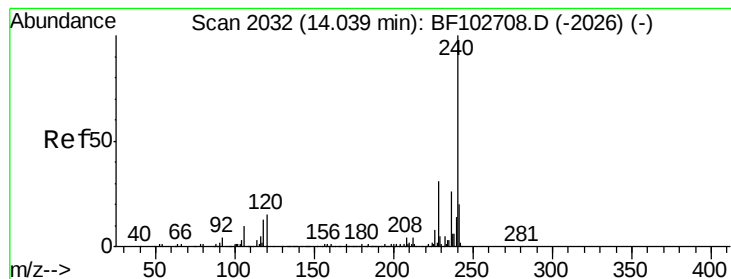
Tot Ion:167 Resp: 1461075
 Ion Ratio Lower Upper
 167 100
 166 22.7 17.6 26.4
 139 14.3 10.9 16.3



#74
 Fluoranthene
 Concen: 261.28 ng
 RT: 12.66 min Scan# 1797
 Delta R.T. 0.04 min
 Lab File: BF103024.D
 Acq: 15 Feb 2018 18:16

Tgt Ion:202 Resp: 5982698
 Ion Ratio Lower Upper
 202 100
 101 13.3 0.0 34.1
 203 18.3 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.09 min Scan# 2040

Delta R.T. 0.04 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampleId :

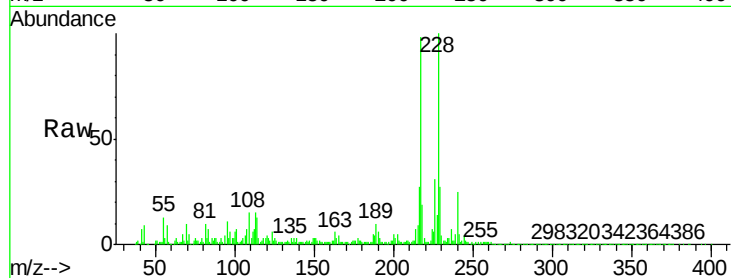
Tot Ion:240 Resp: 161192

Ion Ratio Lower Upper

240 100

120 16.2 9.5 14.3#

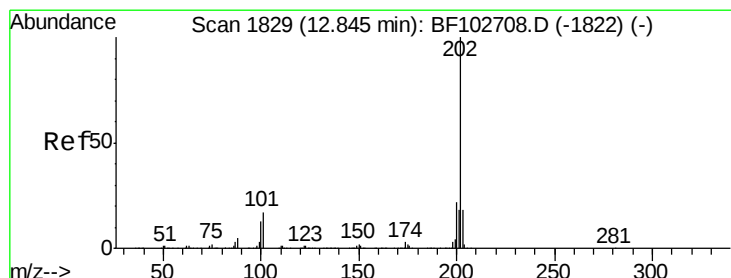
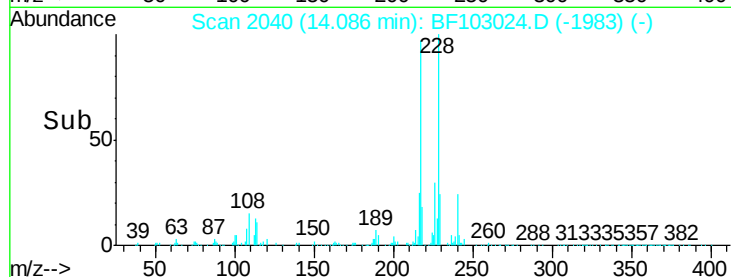
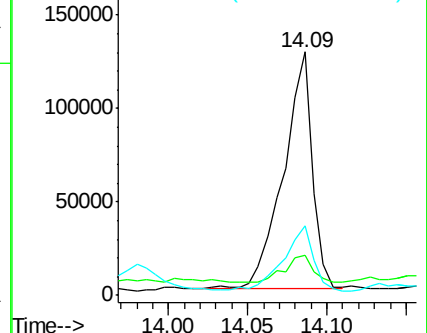
236 28.4 20.7 31.1



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: 385.72 ng

RT: 12.89 min Scan# 1837

Delta R.T. 0.04 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

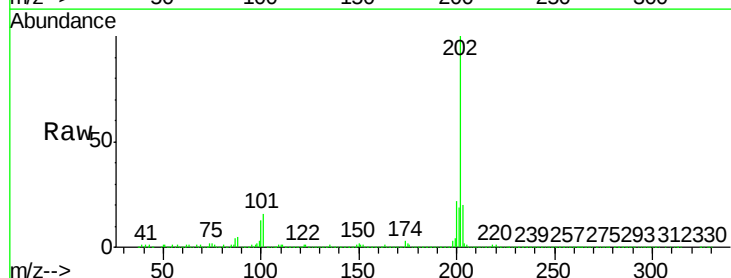
Tgt Ion:202 Resp: 4875527

Ion Ratio Lower Upper

202 100

200 22.3 17.4 26.2

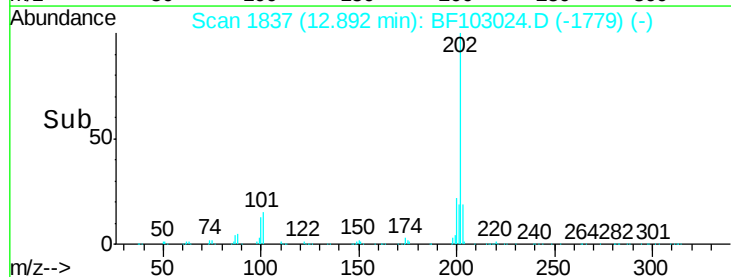
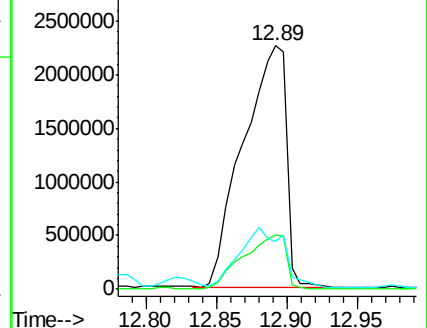
203 19.8 14.3 21.5

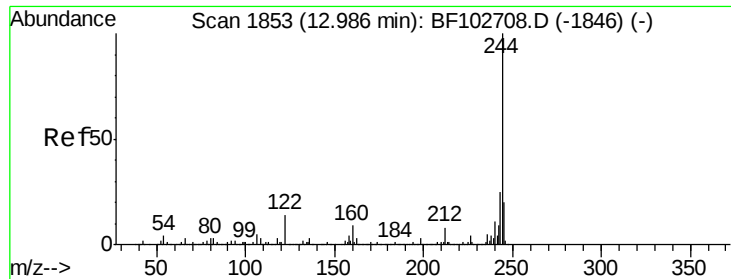


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 126.04 ng

RT: 13.00 min Scan# 1855

Delta R.T. 0.01 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampleId :

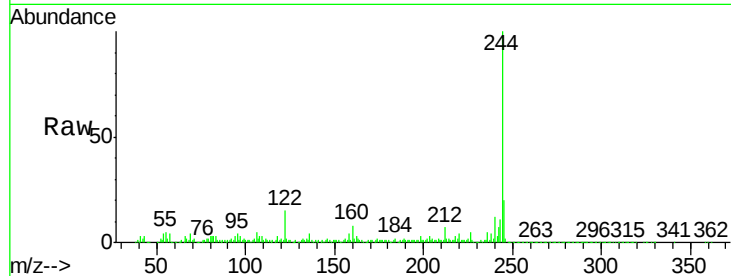
Tot Ion:244 Resp: 858055

Ion Ratio Lower Upper

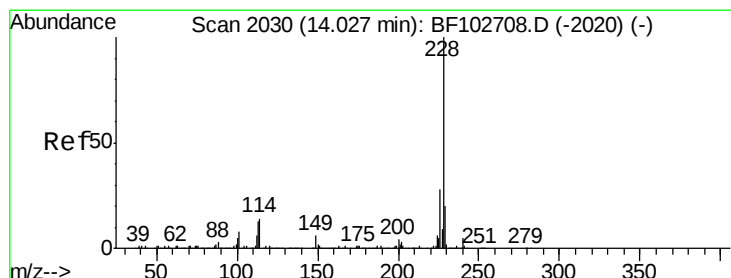
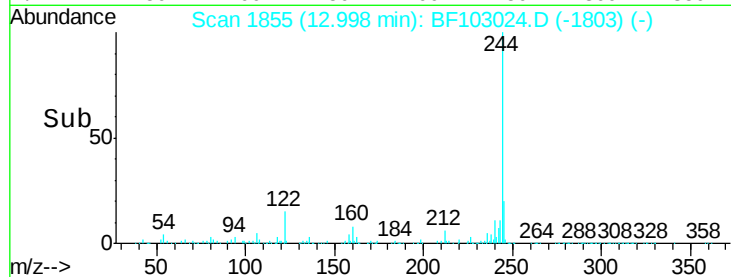
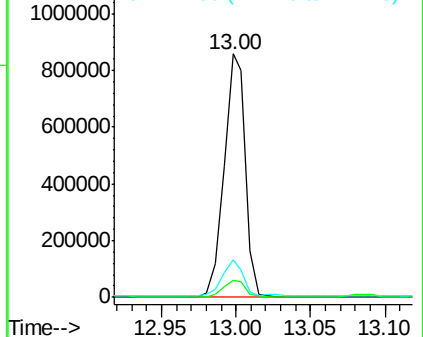
244 100

212 7.0 5.4 8.0

122 15.2 11.0 16.4



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



#80

Benzo(a)anthracene

Concen: 292.32 ng

RT: 14.07 min Scan# 2038

Delta R.T. 0.04 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

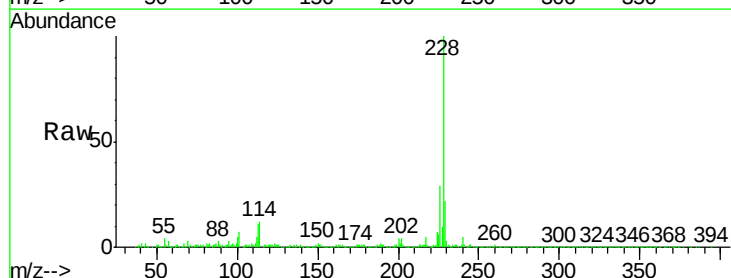
Tgt Ion:228 Resp: 2963346

Ion Ratio Lower Upper

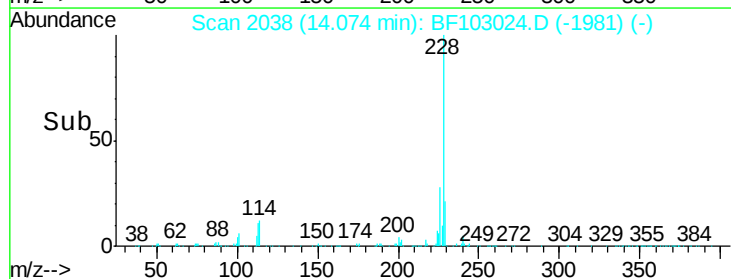
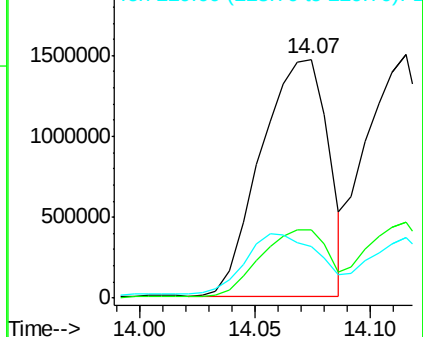
228 100

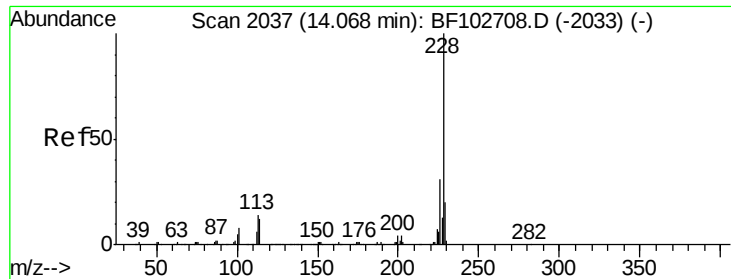
226 28.6 22.6 33.8

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: 289.98 ng

RT: 14.07 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampleId :

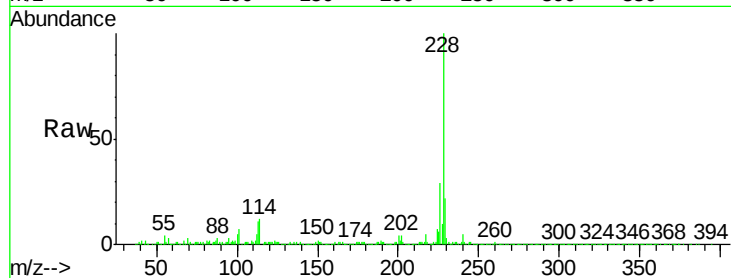
Tot Ion:228 Resp: 2963346

Ion Ratio Lower Upper

228 100

226 28.6 25.0 37.6

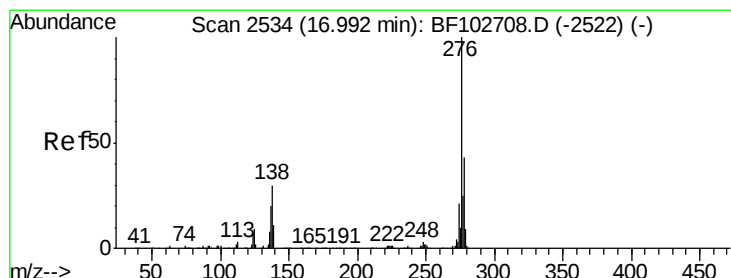
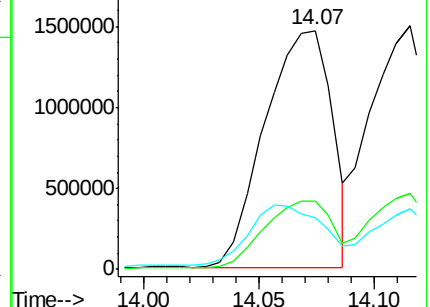
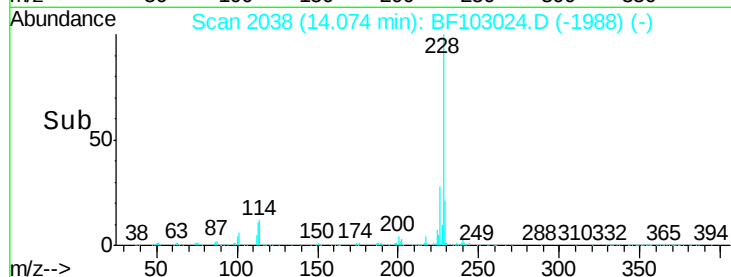
229 21.7 16.2 24.4



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: 187.78 ng

RT: 17.13 min Scan# 2558

Delta R.T. 0.10 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

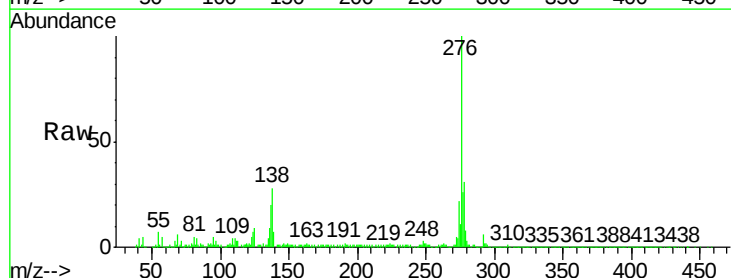
Tgt Ion:276 Resp: 1591519

Ion Ratio Lower Upper

276 100

138 26.1 25.0 37.6

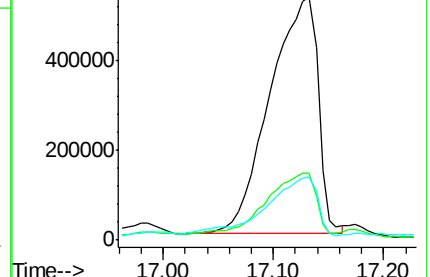
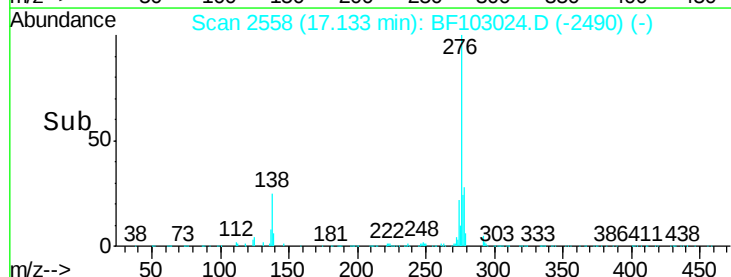
277 26.5 20.1 30.1

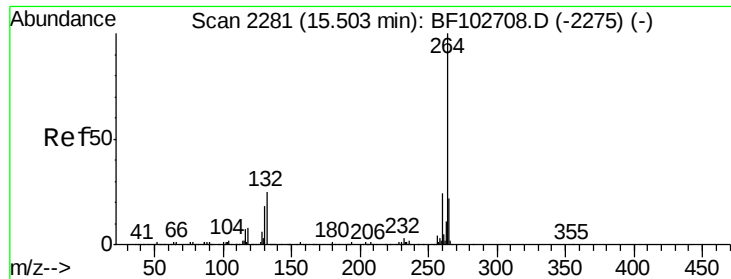


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

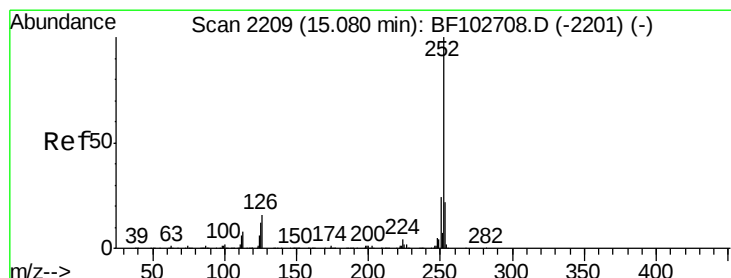
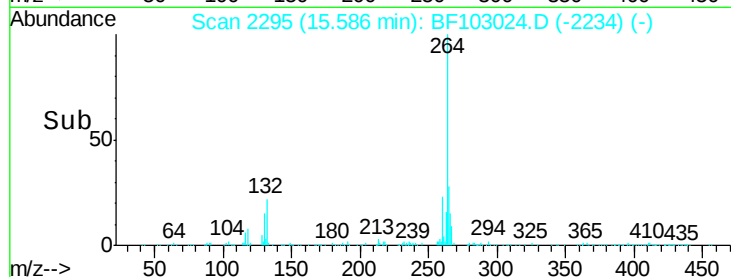
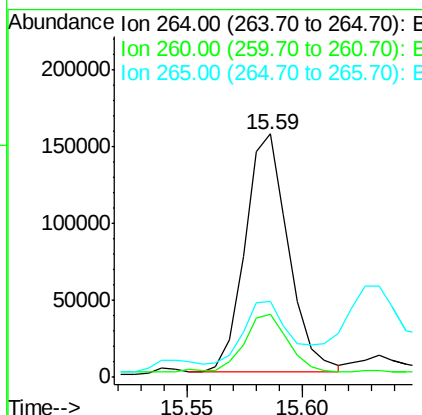
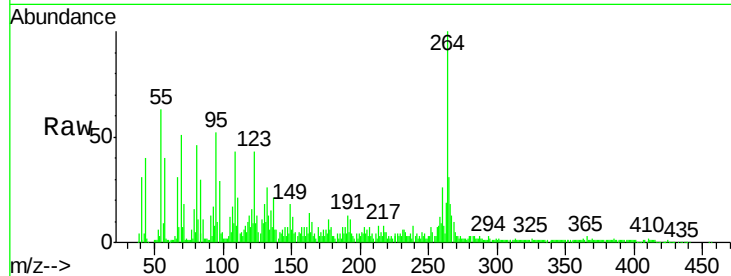




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.59 min Scan# 2295
Delta R.T. 0.06 min
Lab File: BF103024.D
Acq: 15 Feb 2018 18:16

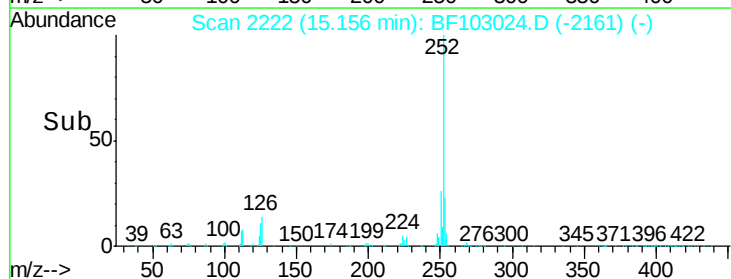
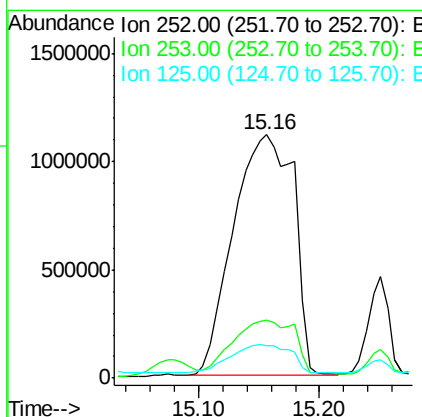
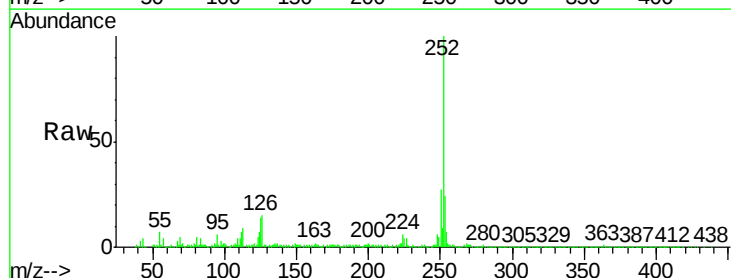
Instrument :
BNA_F
ClientSampleId :

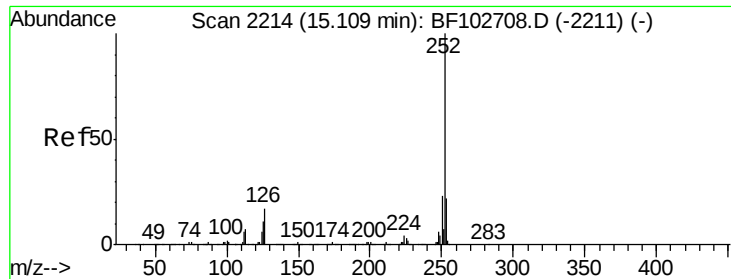
Tot Ion:264 Resp: 201110
Ion Ratio Lower Upper
264 100
260 26.1 19.2 28.8
265 31.3 17.5 26.3#



#87
Benzo(b)fluoranthene
Concen: 296.48 ng
RT: 15.16 min Scan# 2222
Delta R.T. 0.06 min
Lab File: BF103024.D
Acq: 15 Feb 2018 18:16

Tgt Ion:252 Resp: 3865674
Ion Ratio Lower Upper
252 100
253 23.9 17.0 25.6
125 13.6 9.0 13.6

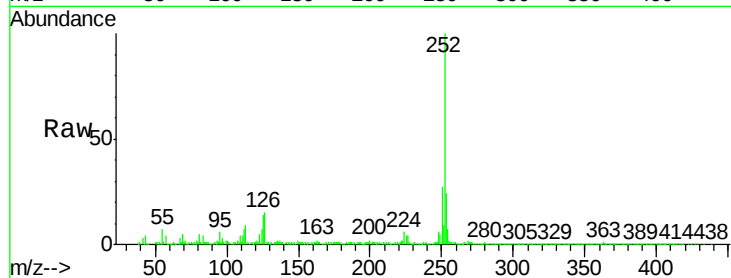




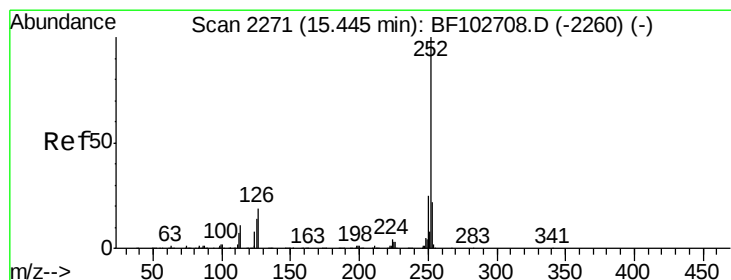
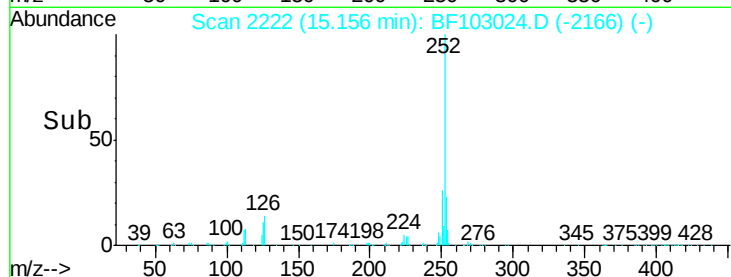
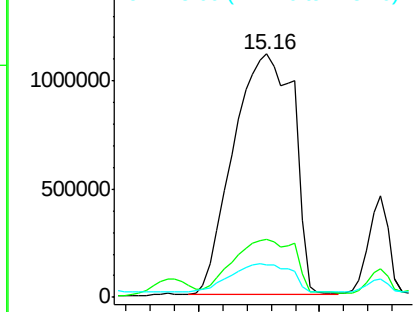
#88
Benzo(k)fluoranthene
Concen: 310.29 ng
RT: 15.16 min Scan# 2222
Delta R.T. 0.03 min
Lab File: BF103024.D
Acq: 15 Feb 2018 18:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 3865674
Ion Ratio Lower Upper
252 100
253 23.9 17.9 26.9
125 13.6 10.2 15.2

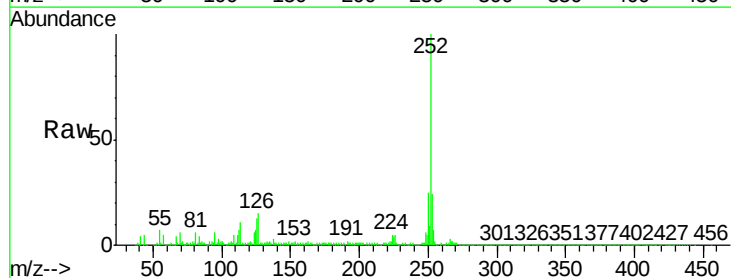


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

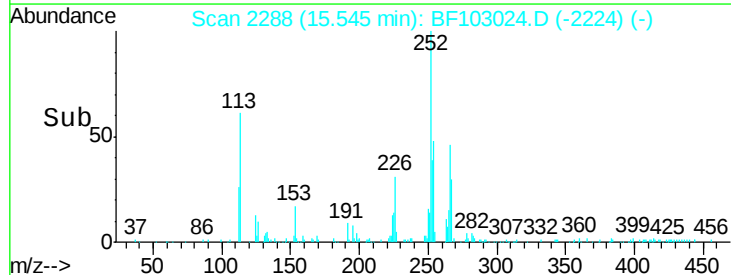
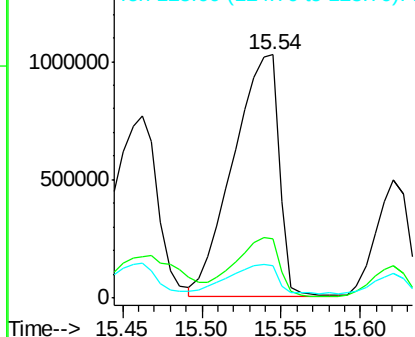


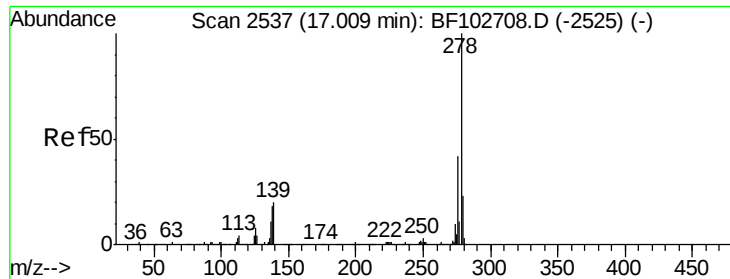
#89
Benzo(a)pyrene
Concen: 175.38 ng
RT: 15.54 min Scan# 2288
Delta R.T. 0.08 min
Lab File: BF103024.D
Acq: 15 Feb 2018 18:16

Tgt Ion:252 Resp: 2058367
Ion Ratio Lower Upper
252 100
253 24.5 17.1 25.7
125 13.1 9.8 14.6



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





#90

Dibenzo(a,h)anthracene

Concen: 41.58 ng

RT: 17.28 min Scan# 2583

Delta R.T. 0.23 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

Instrument :

BNA_F

ClientSampleId :

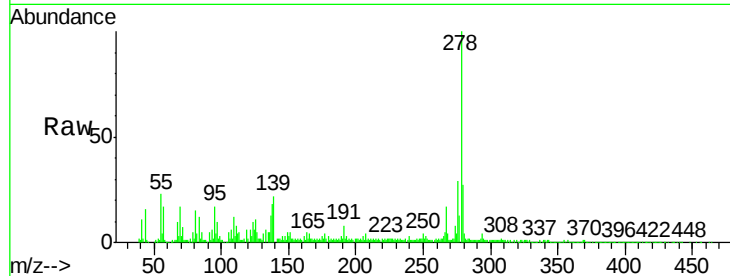
Tot Ion:278 Resp: 396121

Ion Ratio Lower Upper

278 100

139 21.6 15.9 23.9

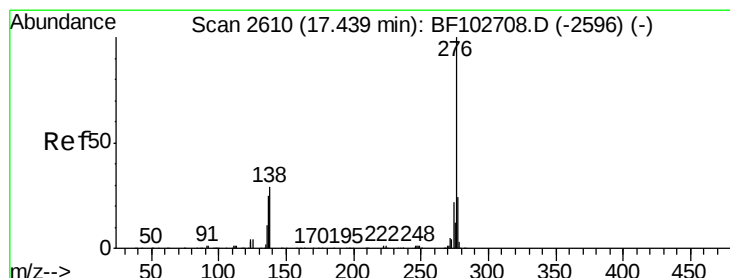
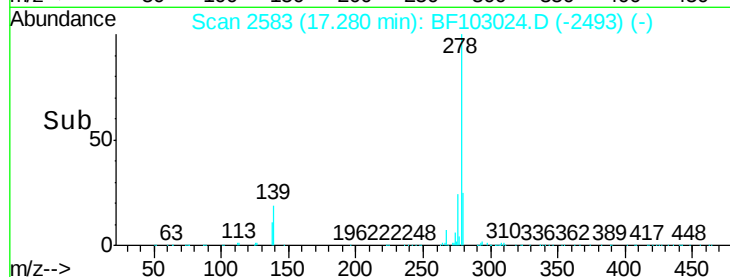
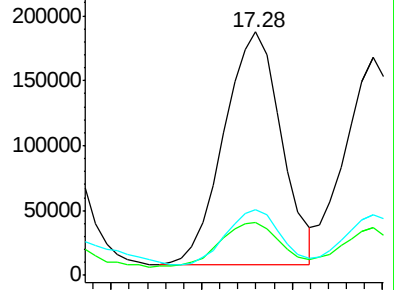
279 26.8 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 167.65 ng

RT: 17.59 min Scan# 2636

Delta R.T. 0.10 min

Lab File: BF103024.D

Acq: 15 Feb 2018 18:16

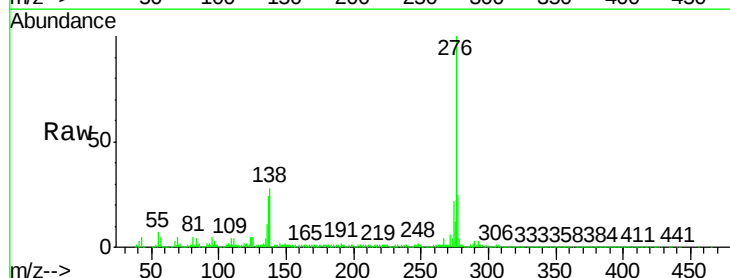
Tgt Ion:276 Resp: 1563147

Ion Ratio Lower Upper

276 100

277 24.9 17.9 26.9

138 28.3 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

