

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\
 Data File : BF102993.D
 Acq On : 14 Feb 2018 16:57
 Operator : SJ/JU
 Sample : J1539-12
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 15 00:06:23 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 00:38:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	161200	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	642637	20.00	ng	0.00
38) Acenaphthene-d10	9.91	164	242191	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	318716	20.00	ng	0.00
75) Chrysene-d12	14.04	240	289483	20.00	ng	0.00
86) Perylene-d12	15.52	264	266275	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	1082440	101.98	ng	0.01
7) Phenol-d6	6.50	99	1289257	100.88	ng	0.00
23) Nitrobenzene-d5	7.44	82	800164	86.38	ng	0.00
41) 2,4,6-Tribromophenol	10.70	330	169927	87.17	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	1146497	78.55	ng	0.00
78) Terphenyl-d14	12.99	244	743062	60.78	ng	0.00

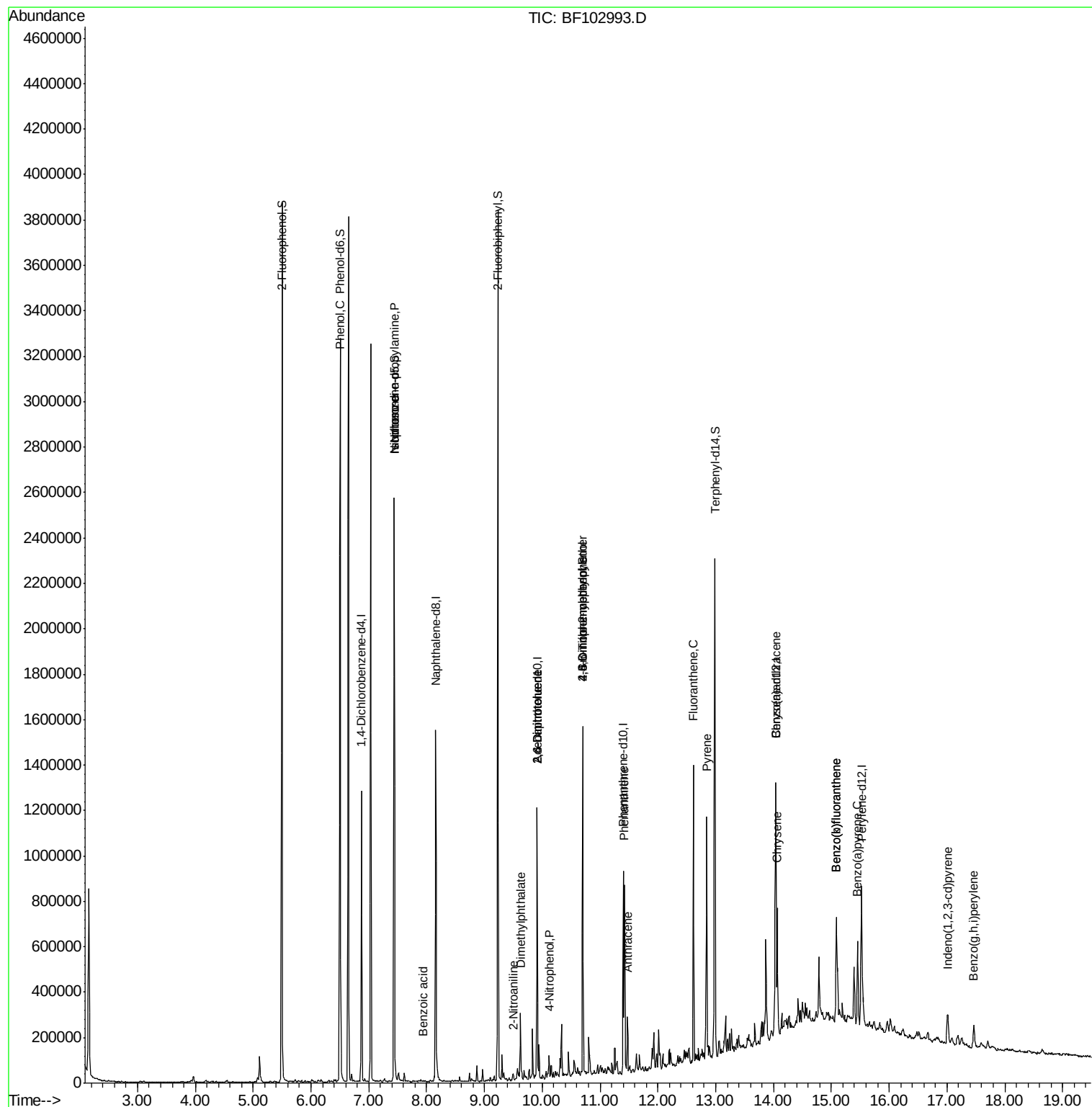
Target Compounds						Qvalue
10) Phenol	6.52	94	36751	2.68	ng	91
19) n-Nitroso-di-n-propylamine	7.44	70	107856	12.80	ng	# 81
24) Nitrobenzene	7.47	77	113	Below	Cal	# 38
25) Isophorone	7.44	82	800153	37.51	ng	# 64
32) Benzoic acid	7.94	122	634	8.64	ng	# 22
47) 2-Nitroaniline	9.50	65	260	3.52	ng	# 2
49) Dimethylphthalate	9.62	163	84571	4.48	ng	100
50) 2,6-Dinitrotoluene	9.91	165	32321	9.00	ng	# 26
55) 4-Nitrophenol	10.12	139	10493	6.77	ng	# 13
56) 2,4-Dinitrotoluene	9.91	165	32321	9.35	ng	# 23
64) 4,6-Dinitro-2-methylphenol	10.70	198	381	9.06	ng	# 1
66) 4-Bromophenyl-phenylether	10.70	248	11256	3.34	ng	# 1
70) Phenanthrene	11.43	178	300778	16.94	ng	98
71) Anthracene	11.47	178	81638	4.52	ng	99
74) Fluoranthene	12.62	202	445685	24.96	ng	99
77) Pyrene	12.84	202	390963	17.22	ng	100
80) Benzo(a)anthracene	14.03	228	224411	12.33	ng	99
82) Chrysene	14.07	228	203825	11.11	ng	97
85) Indeno(1,2,3-cd)pyrene	17.01	276	81174	5.33	ng	99
87) Benzo(b)fluoranthene	15.09	252	338191	19.59	ng	# 93
88) Benzo(k)fluoranthene	15.09	252	338191	20.50	ng	# 96
89) Benzo(a)pyrene	15.46	252	166998	10.75	ng	# 93
91) Benzo(g,h,i)perylene	17.47	276	73444	5.95	ng	99

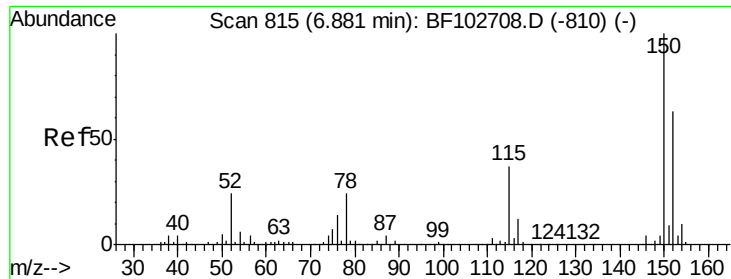
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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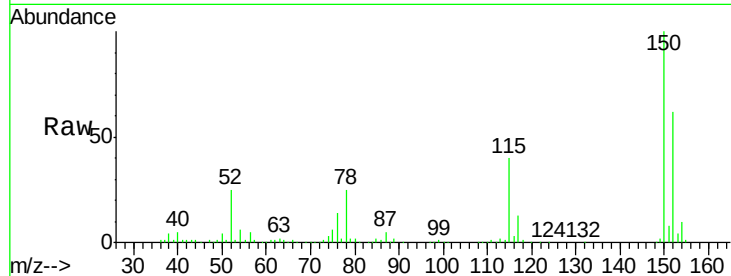


#1

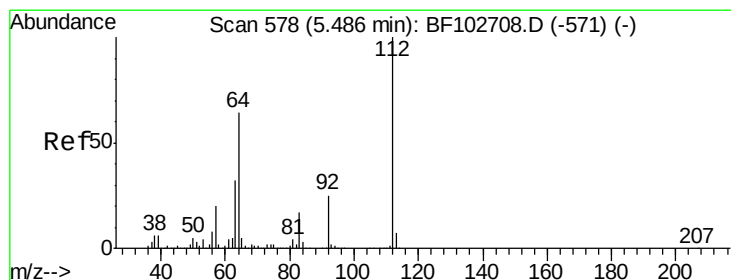
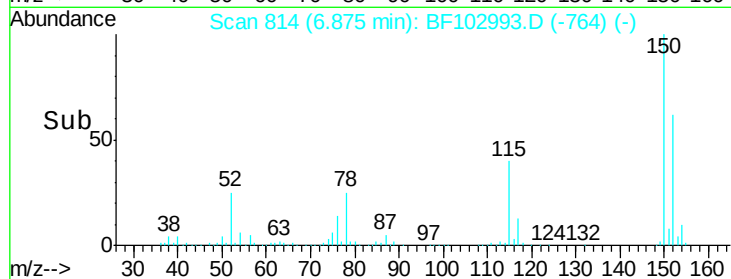
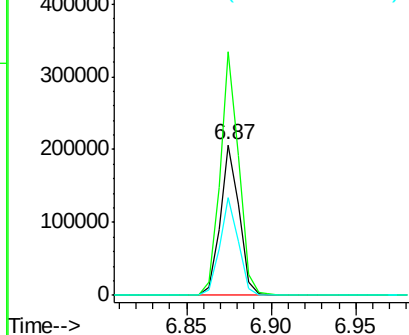
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 161200
Ion Ratio Lower Upper
152 100
150 162.1 124.6 186.8
115 65.1 50.1 75.1



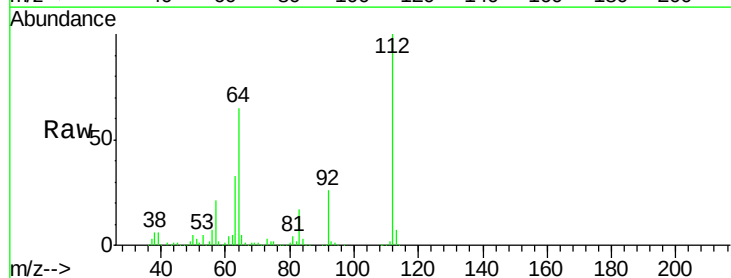
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



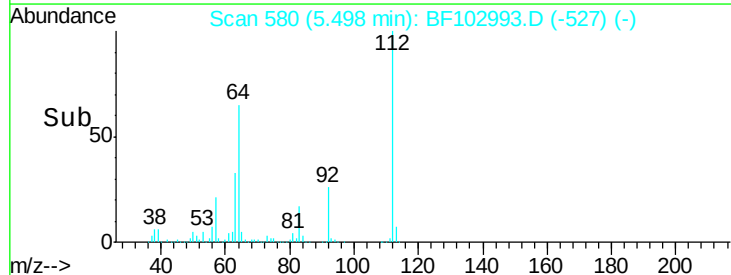
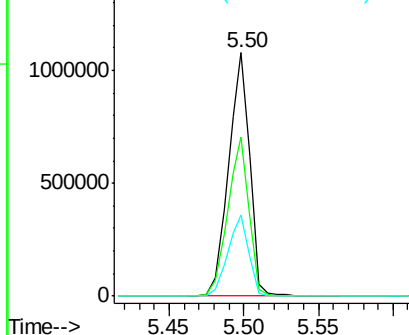
#5

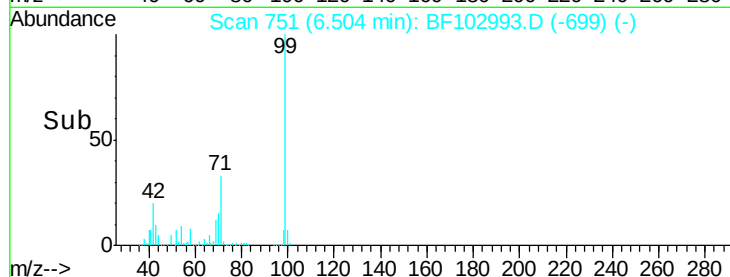
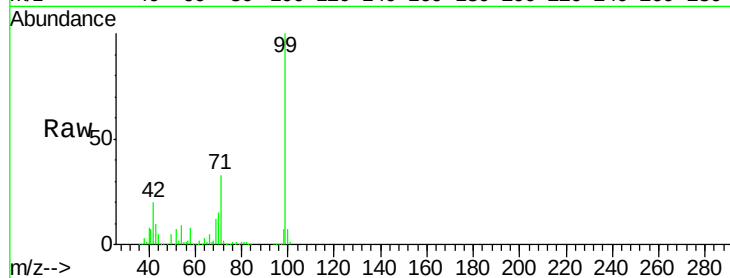
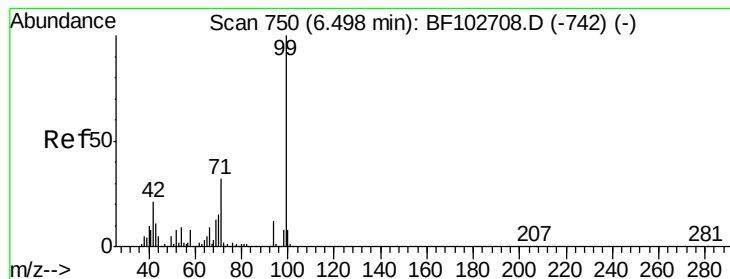
2-Fluorophenol
Concen: 101.98 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

Tgt Ion:112 Resp: 1082440
Ion Ratio Lower Upper
112 100
64 65.3 47.9 71.9
63 33.1 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: 100.88 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

Instrument :

BNA_F

ClientSampled :

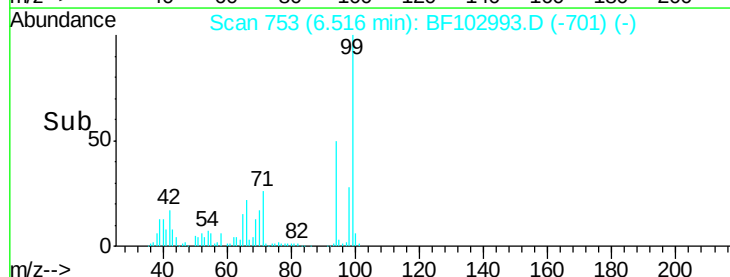
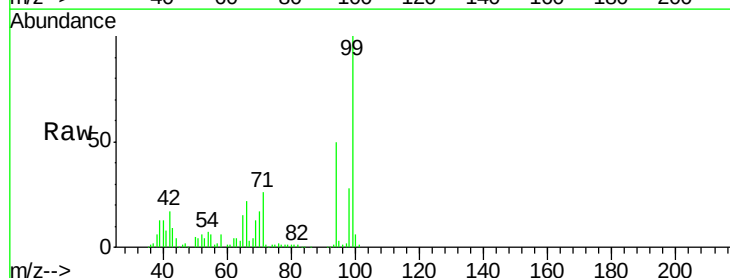
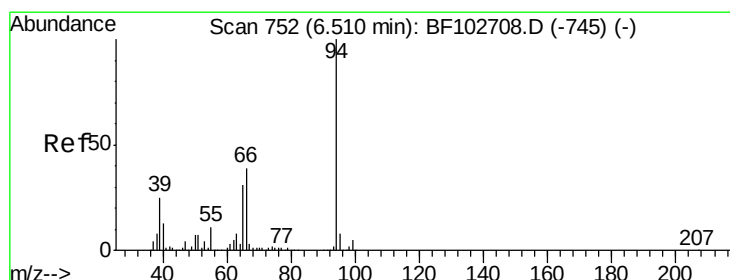
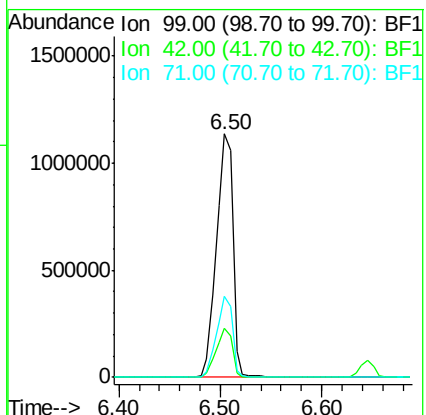
Tot Ion: 99 Resp: 1289257

Ion Ratio Lower Upper

99 100

42 20.0 14.5 21.7

71 33.2 25.4 38.0



#10

Phenol

Concen: 2.68 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.01 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

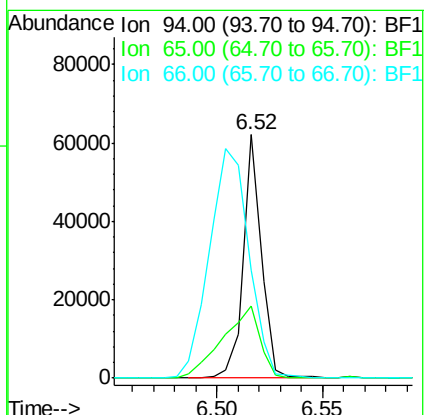
Tgt Ion: 94 Resp: 36751

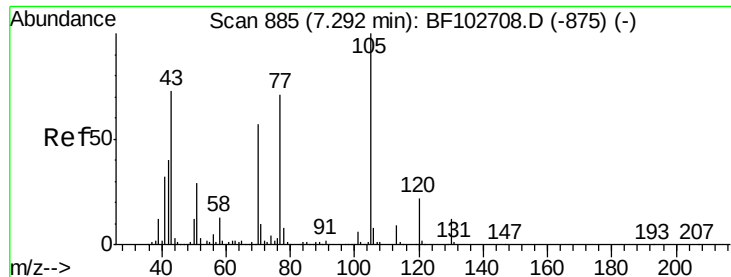
Ion Ratio Lower Upper

94 100

65 29.4 7.9 47.9

66 44.3 16.2 56.2

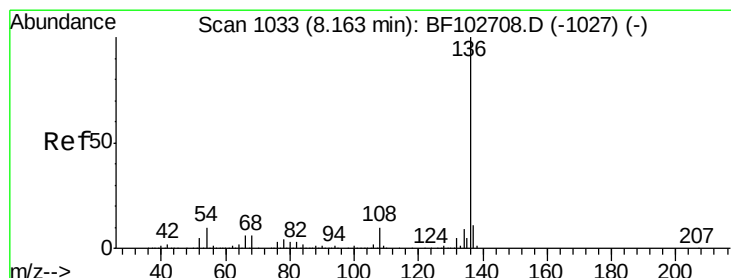
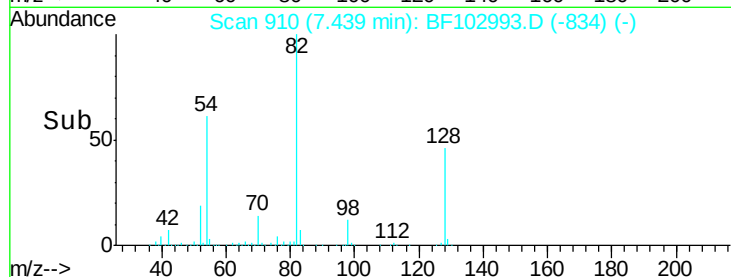
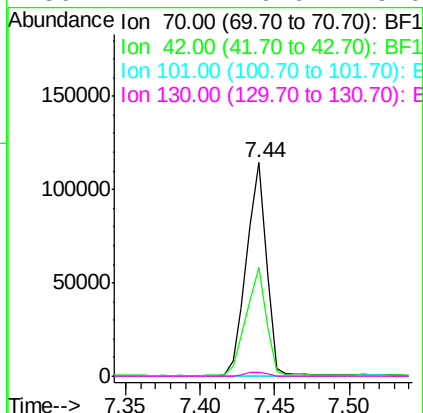
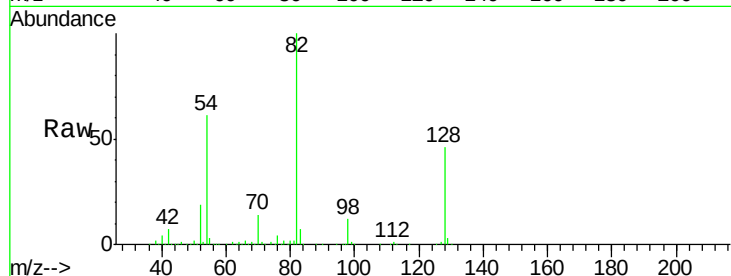




#19
n-Nitroso-di-n-propylamine
Concen: 12.80 ng
RT: 7.44 min Scan# 910
Delta R.T. 0.15 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

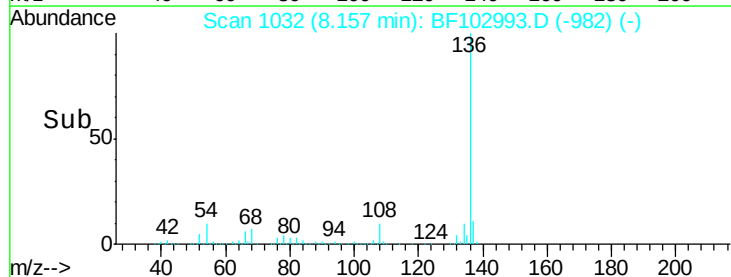
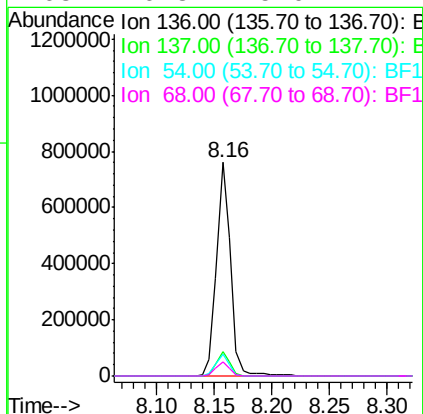
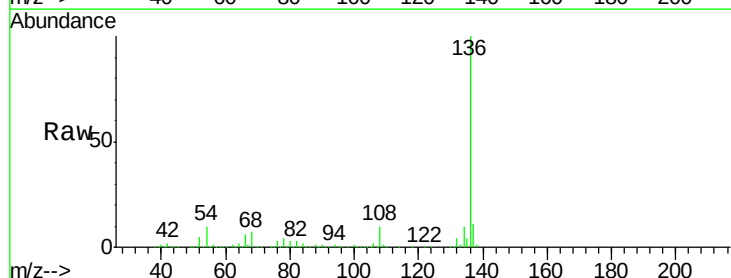
Instrument :
BNA_F
ClientSampleId :

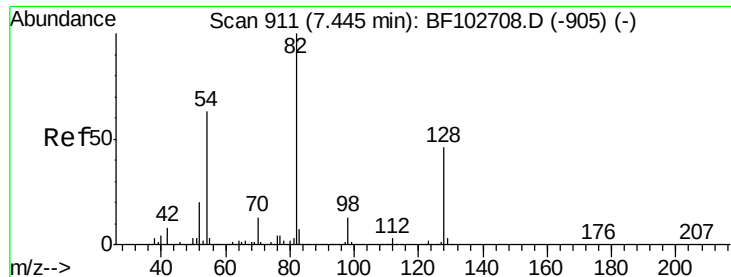
Tot Ion: 70 Resp: 107856
Ion Ratio Lower Upper
70 100
42 51.2 47.5 71.3
101 0.0 7.4 11.2#
130 2.1 16.6 25.0#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

Tgt Ion: 136 Resp: 642637
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 10.0 6.6 9.8#
68 6.8 5.0 7.4

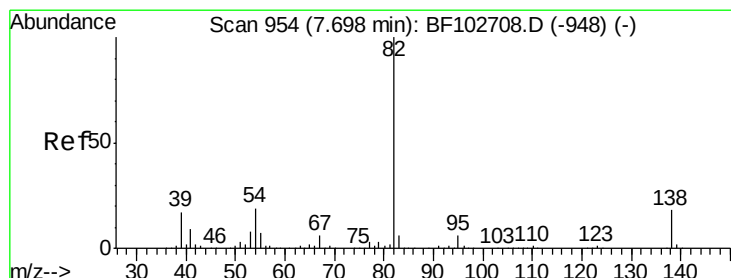
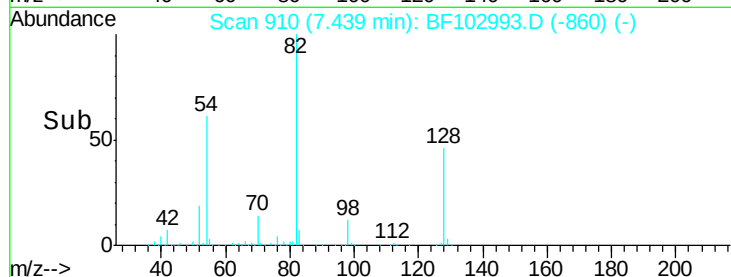
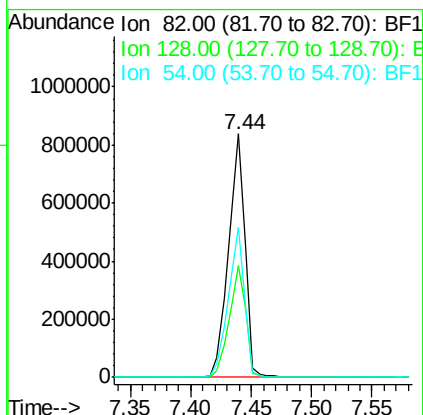
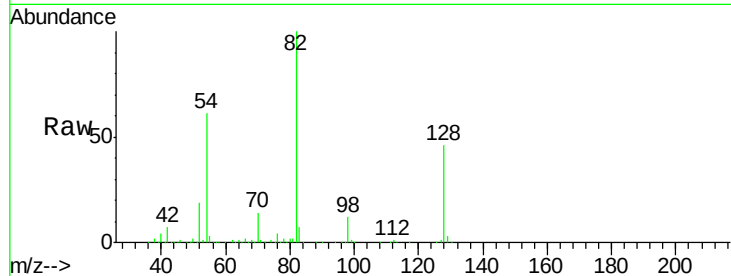




#23
 Nitrobenzene-d5
 Concen: 86.38 ng
 RT: 7.44 min Scan# 910
 Delta R.T. -0.01 min
 Lab File: BF102993.D
 Acq: 14 Feb 2018 16:57

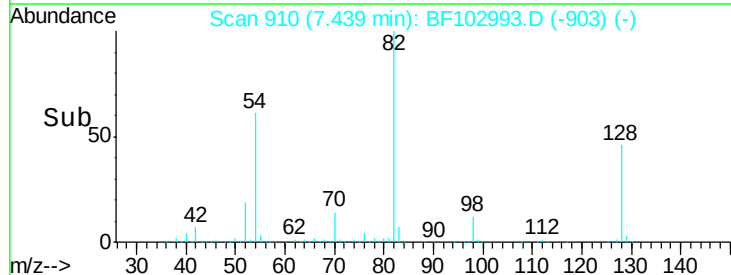
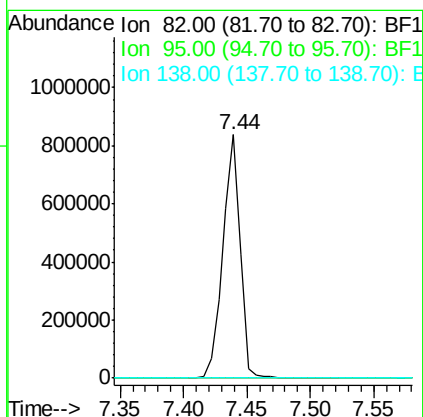
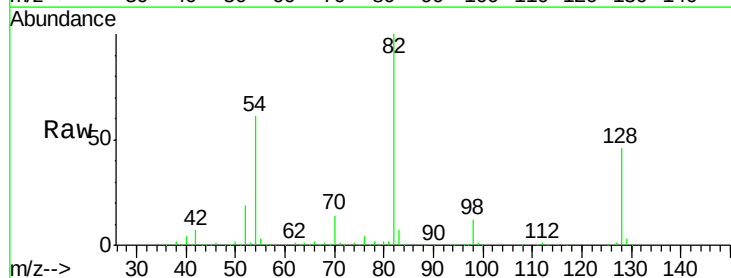
Instrument :
 BNA_F
 ClientSampleId :

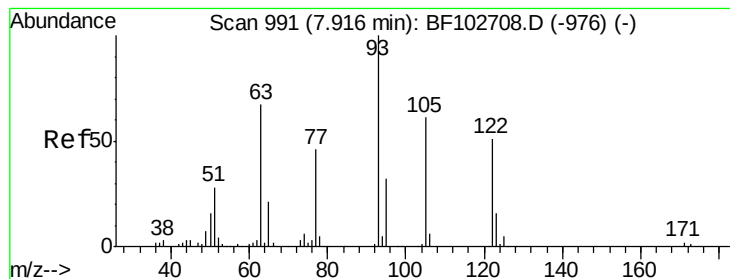
Tot Ion	82	Resp	800164
Ion Ratio	Lower	Upper	
82	100		
128	46.1	36.1	54.1
54	61.4	41.4	62.2



#25
 Isophorone
 Concen: 37.51 ng
 RT: 7.44 min Scan# 910
 Delta R.T. -0.26 min
 Lab File: BF102993.D
 Acq: 14 Feb 2018 16:57

Tgt Ion	82	Resp	800153
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.2	7.8#
138	0.0	14.9	22.3#





#32

Benzoic acid

Concen: 8.64 ng

RT: 7.94 min Scan# 995

Delta R.T. 0.02 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

Instrument :

BNA_F

ClientSampled :

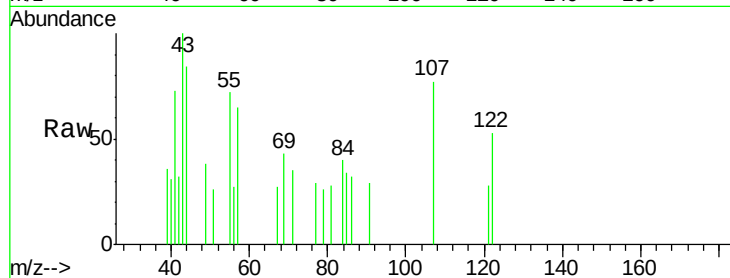
Tot Ion:122 Resp: 634

Ion Ratio Lower Upper

122 100

105 0.0 101.1 141.1#

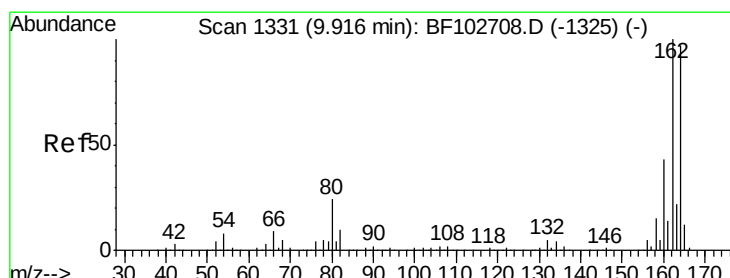
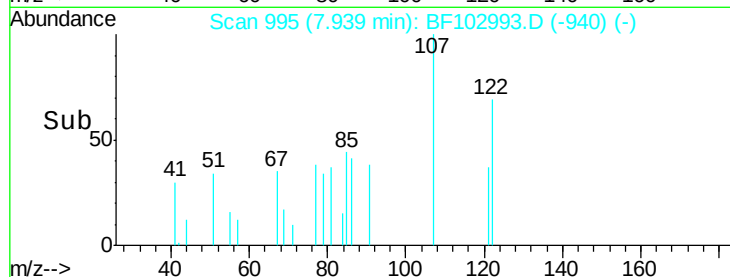
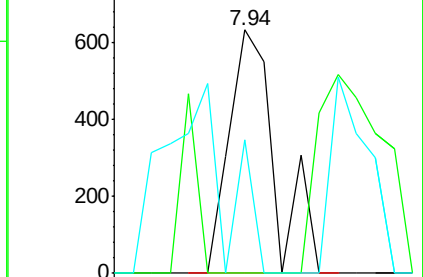
77 54.7 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

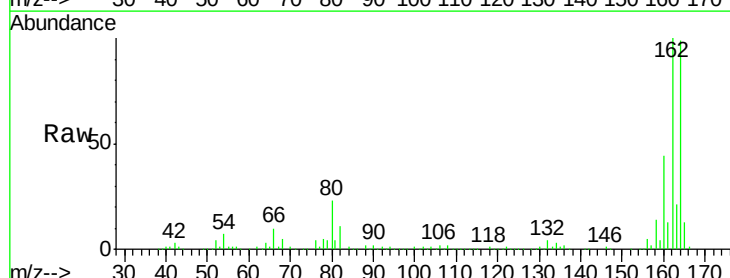
Tgt Ion:164 Resp: 242191

Ion Ratio Lower Upper

164 100

162 100.7 86.1 129.1

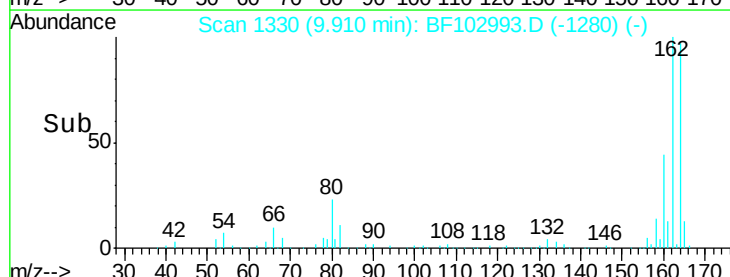
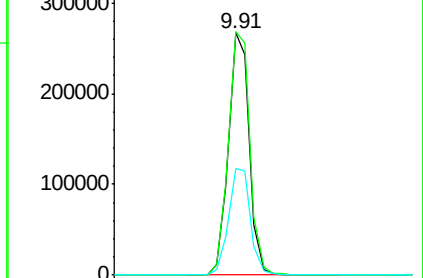
160 44.2 38.3 57.5

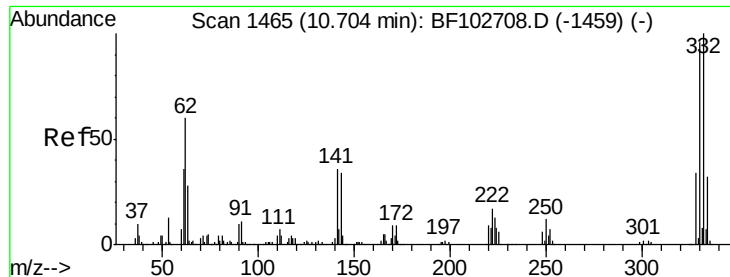


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

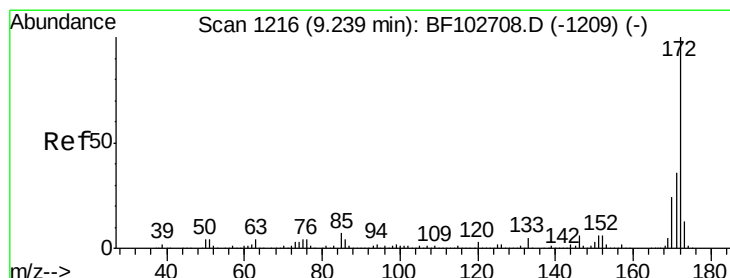
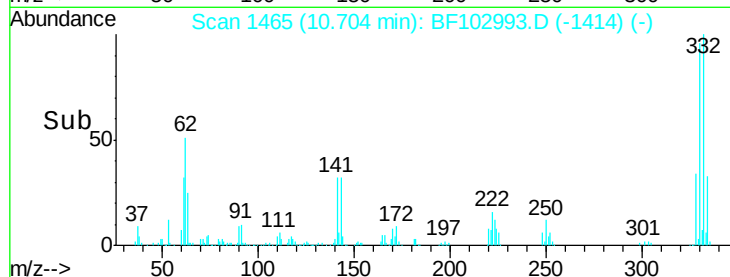
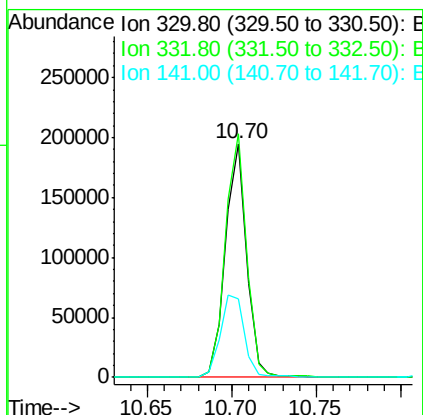
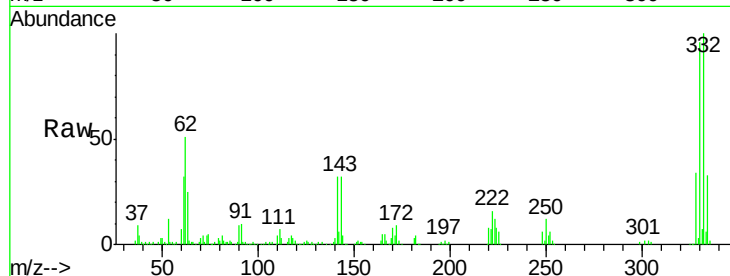




#41
 2,4,6-Tribromophenol
 Concen: 87.17 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: BF102993.D
 Acq: 14 Feb 2018 16:57

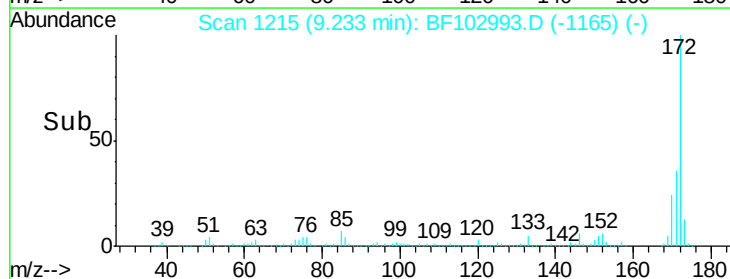
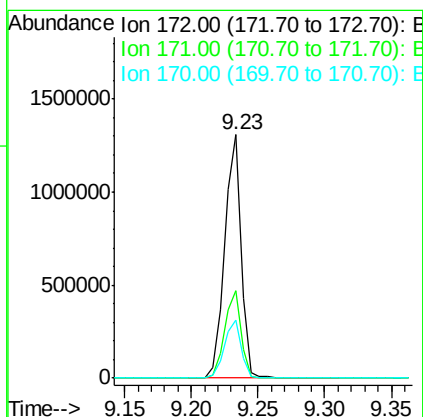
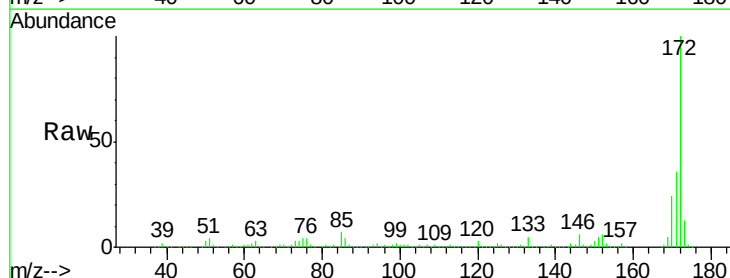
Instrument :
 BNA_F
 ClientSampled :

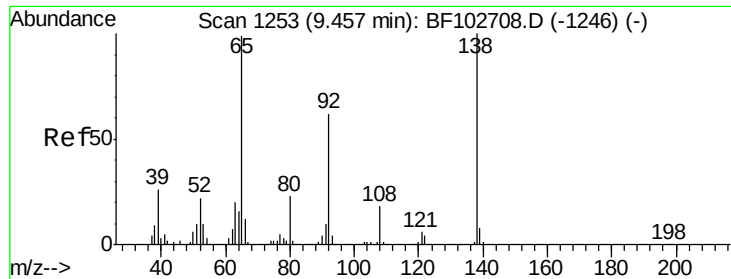
Tot Ion	Ratio	Lower	Upper
330	100		
332	105.4	77.0	115.6
141	40.1	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 78.55 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF102993.D
 Acq: 14 Feb 2018 16:57

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.7	44.5
170	23.6	19.6	29.4

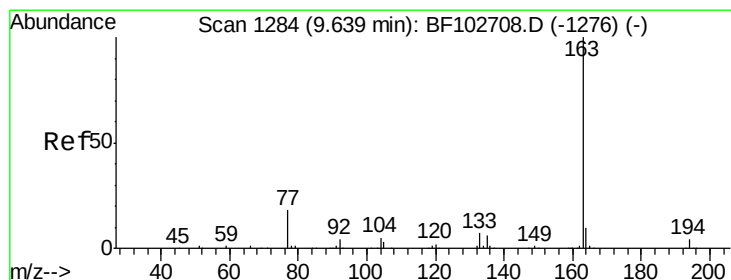
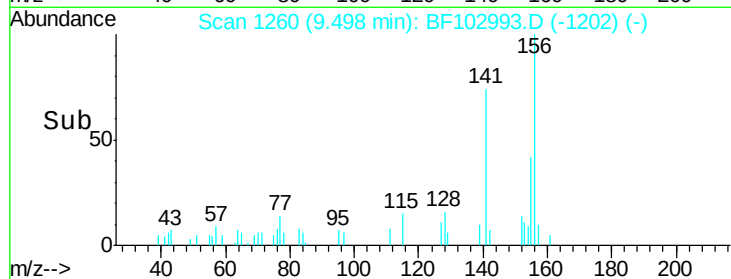
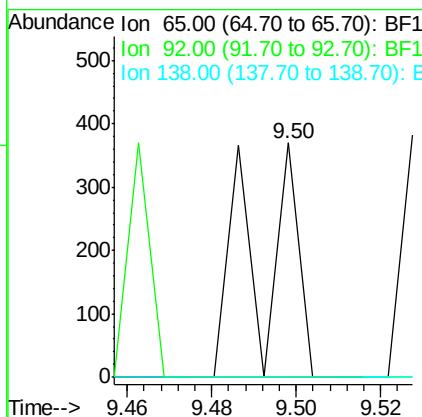
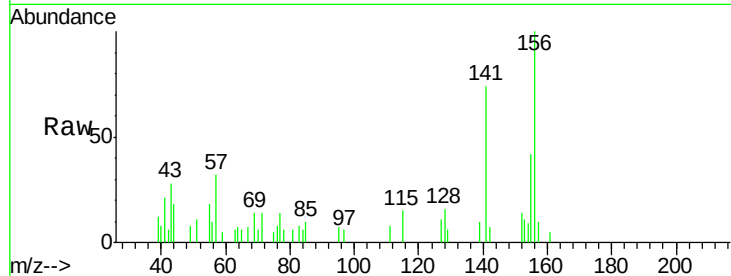




#47
2-Nitroaniline
Concen: 3.52 ng
RT: 9.50 min Scan# 1260
Delta R.T. 0.04 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

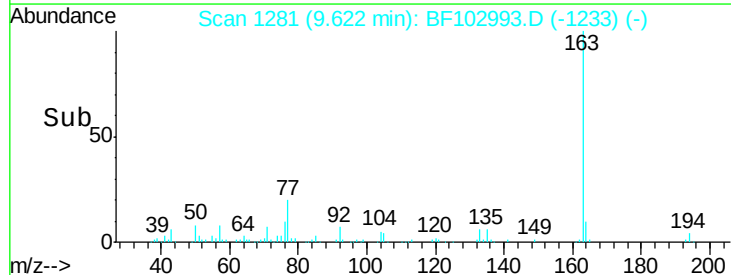
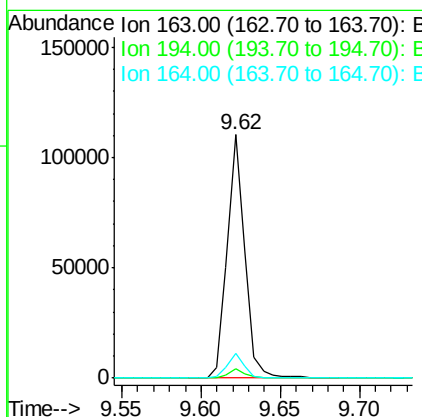
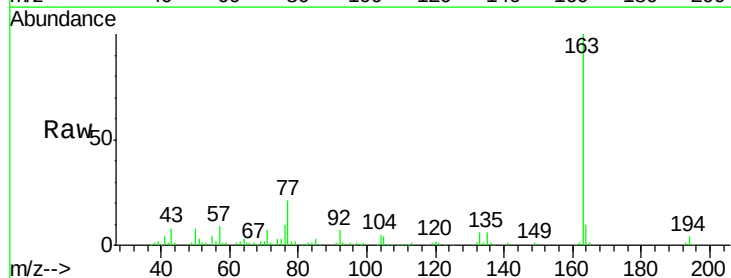
Instrument :
BNA_F
ClientSampled :

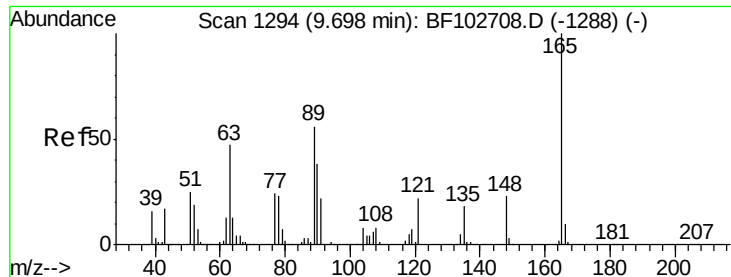
Tot Ion: 65 Resp: 260
Ion Ratio Lower Upper
65 100
92 0.0 55.8 83.6#
138 0.0 91.2 136.8#



#49
Dimethylphthalate
Concen: 4.48 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.02 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

Tgt Ion: 163 Resp: 84571
Ion Ratio Lower Upper
163 100
194 3.6 2.7 4.1
164 10.1 8.2 12.2

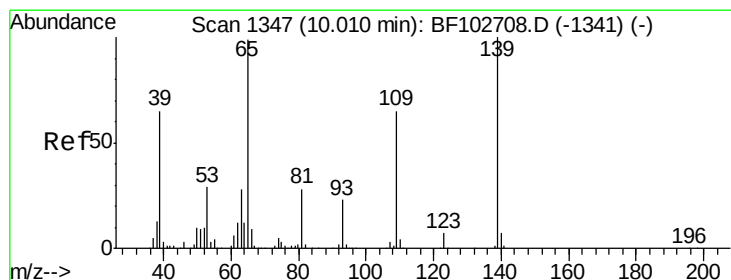
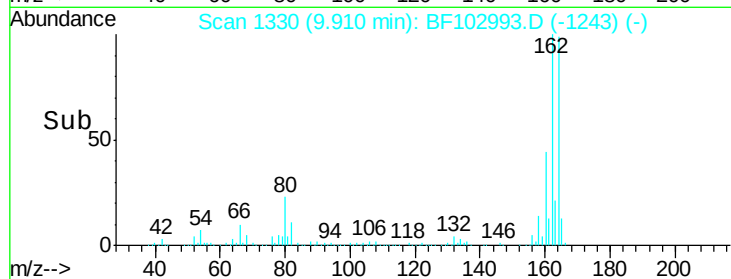
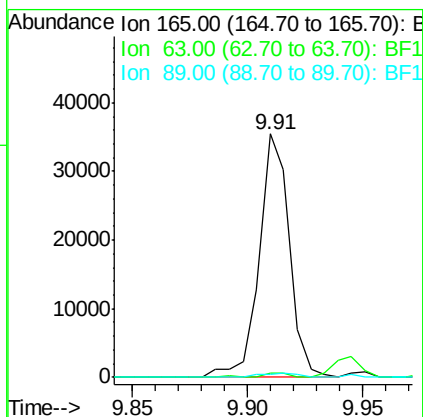
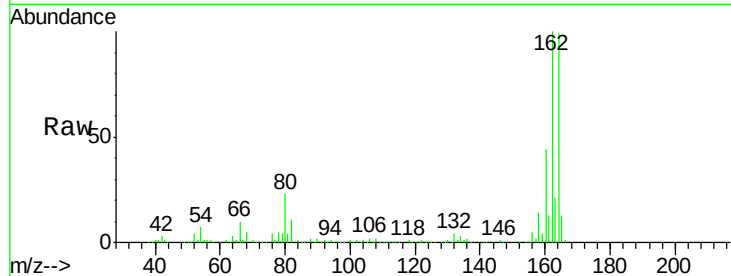




#50
 2,6-Dinitrotoluene
 Concen: 9.00 ng
 RT: 9.91 min Scan# 1330
 Delta R.T. 0.21 min
 Lab File: BF102993.D
 Acq: 14 Feb 2018 16:57

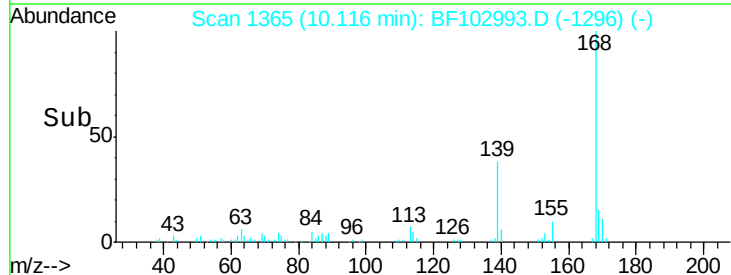
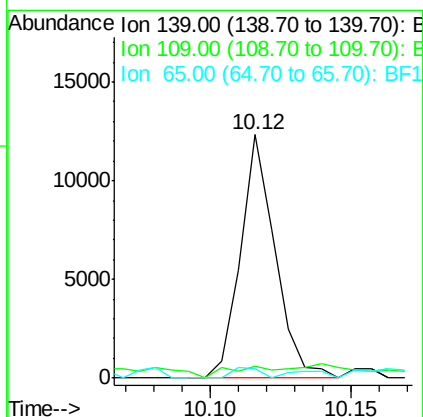
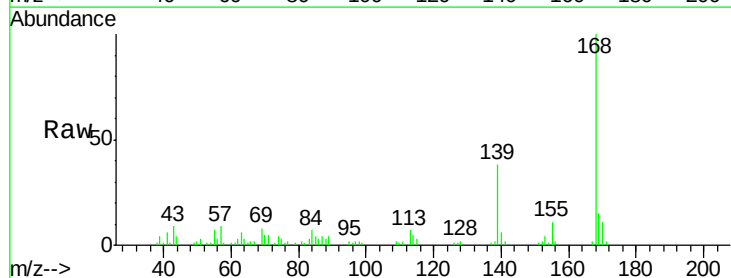
Instrument :
 BNA_F
 ClientSampleId :

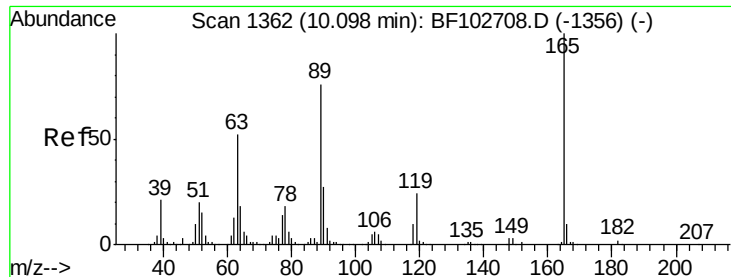
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.9	44.7	67.1#
89	1.2	44.0	66.0#



#55
 4-Nitrophenol
 Concen: 6.77 ng
 RT: 10.12 min Scan# 1365
 Delta R.T. 0.11 min
 Lab File: BF102993.D
 Acq: 14 Feb 2018 16:57

Tgt Ion	Ratio	Lower	Upper
139	100		
109	4.7	48.4	88.4#
65	3.7	72.6	112.6#

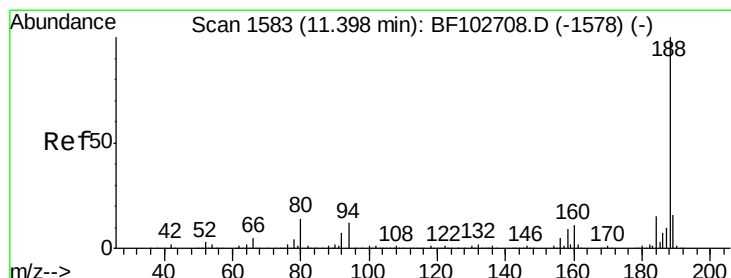
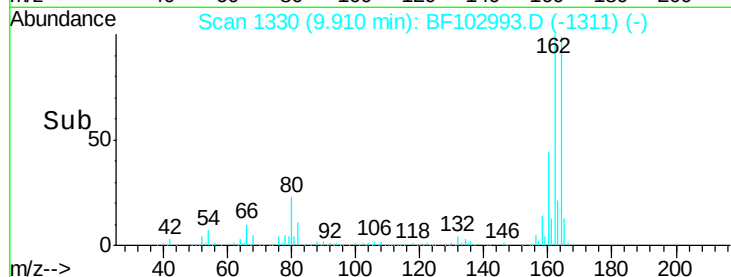
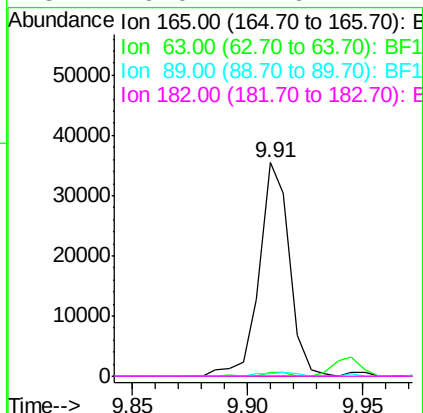
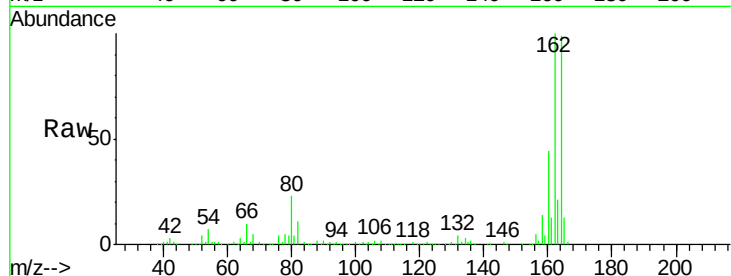




#56
 2,4-Dinitrotoluene
 Concen: 9.35 ng
 RT: 9.91 min Scan# 1330
 Delta R.T. -0.19 min
 Lab File: BF102993.D
 Acq: 14 Feb 2018 16:57

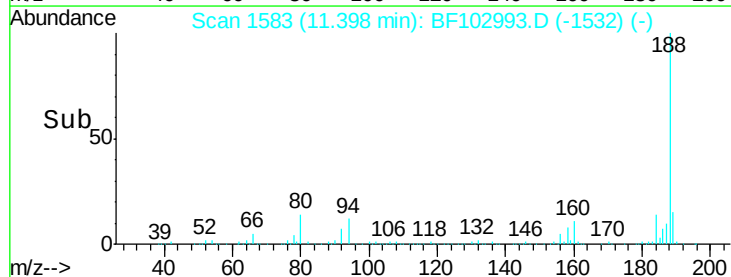
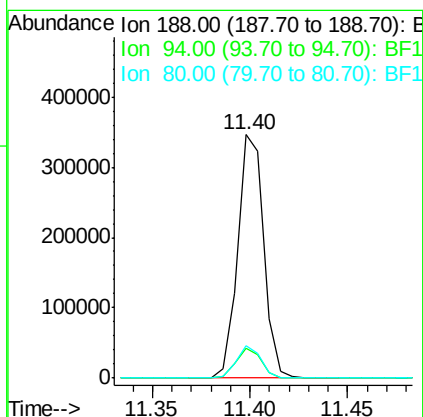
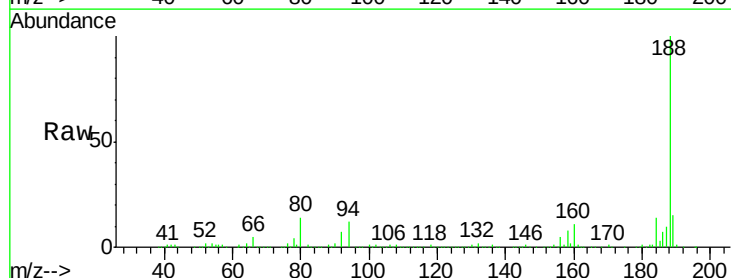
Instrument :
 BNA_F
 ClientSampled :

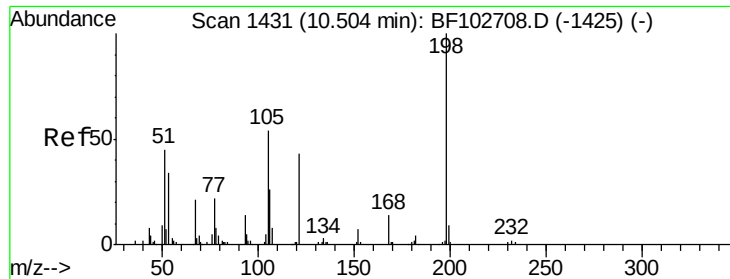
Tot Ion:165 Resp: 32321
 Ion Ratio Lower Upper
 165 100
 63 1.9 36.4 54.6#
 89 1.2 57.8 86.6#
 182 0.0 1.6 2.4#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: BF102993.D
 Acq: 14 Feb 2018 16:57

Tgt Ion:188 Resp: 318716
 Ion Ratio Lower Upper
 188 100
 94 12.5 8.5 12.7
 80 13.6 9.2 13.8

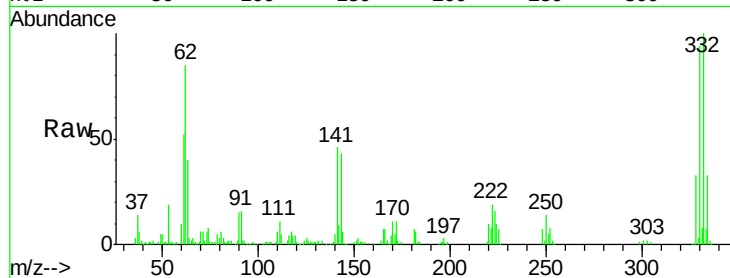




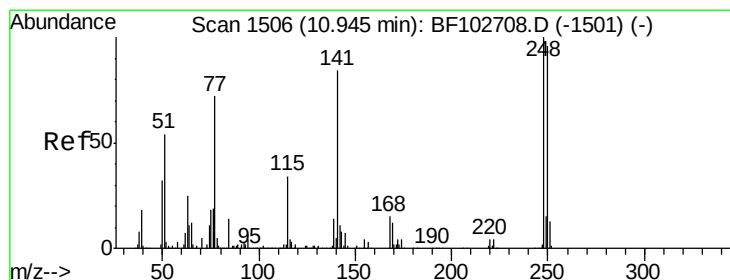
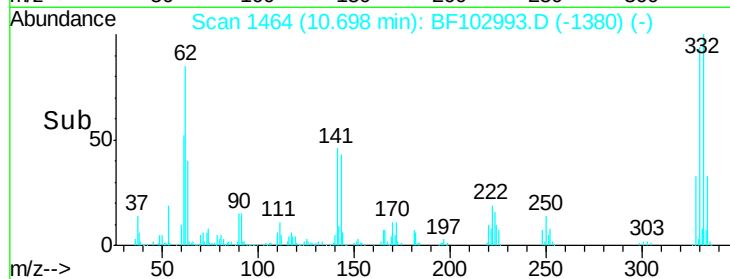
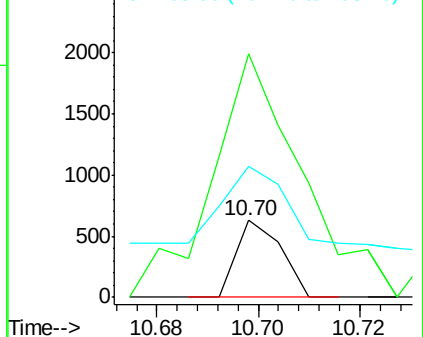
#64
4,6-Dinitro-2-methylphenol
Concen: 9.06 ng
RT: 10.70 min Scan# 1464
Delta R.T. 0.20 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

Instrument :
BNA_F
ClientSampled :

Tot Ion:198 Resp: 381
Ion Ratio Lower Upper
198 100
51 317.0 37.7 77.7#
105 170.1 36.3 76.3#

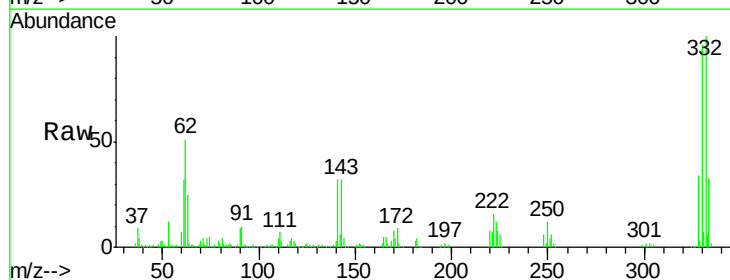


Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF1
Ion 105.00 (104.70 to 105.70): E

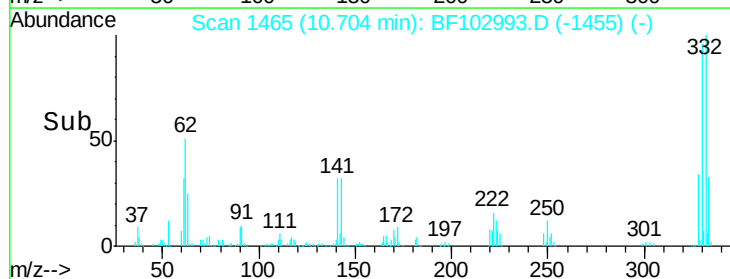
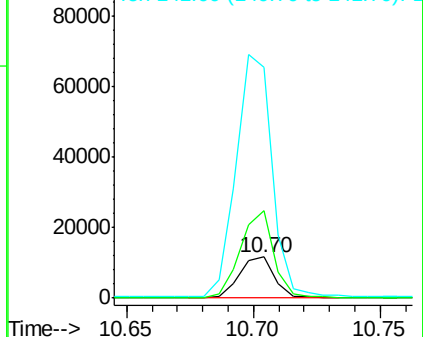


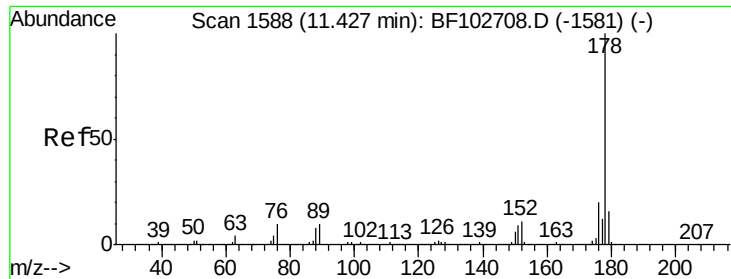
#66
4-Bromophenyl-phenylether
Concen: 3.34 ng
RT: 10.70 min Scan# 1465
Delta R.T. -0.24 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

Tgt Ion:248 Resp: 11256
Ion Ratio Lower Upper
248 100
250 213.1 76.9 115.3#
141 566.1 74.4 111.6#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 16.94 ng

RT: 11.43 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

Instrument :

BNA_F

ClientSampleId :

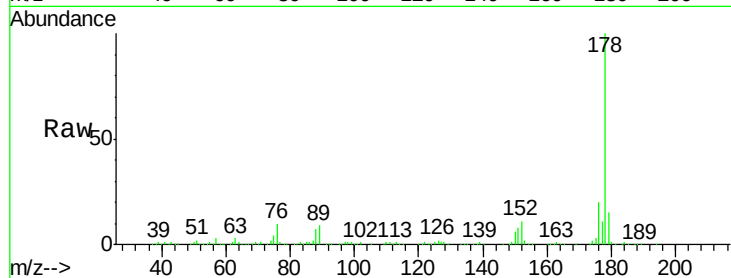
Tot Ion:178 Resp: 300778

Ion Ratio Lower Upper

178 100

176 20.3 15.8 23.8

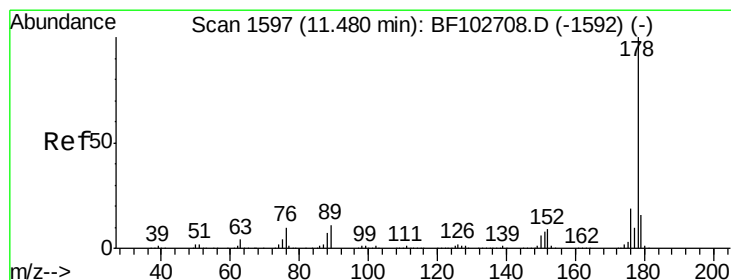
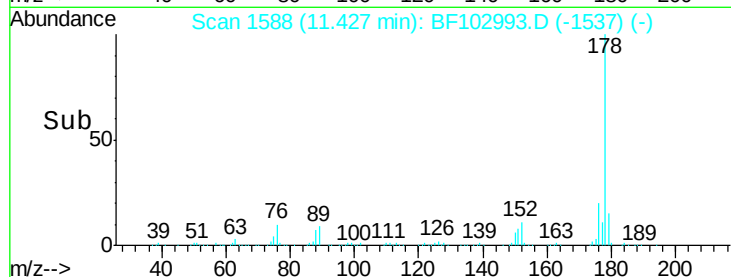
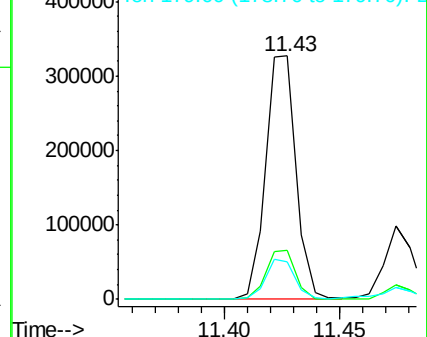
179 15.4 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 4.52 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

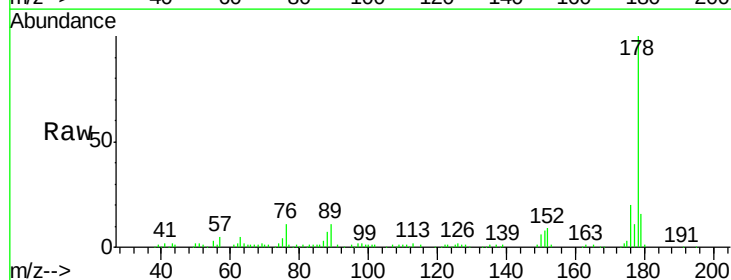
Tgt Ion:178 Resp: 81638

Ion Ratio Lower Upper

178 100

176 19.9 15.4 23.2

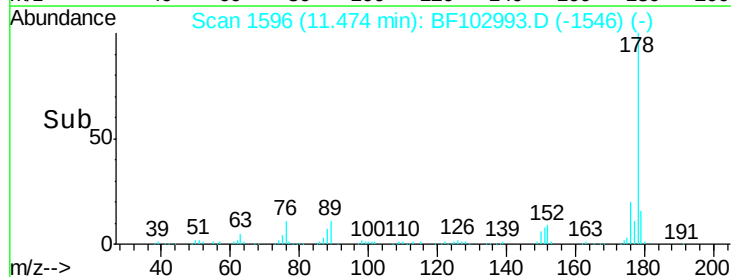
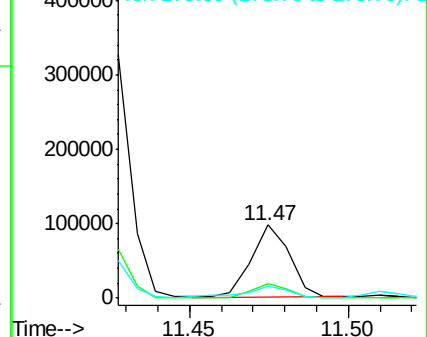
179 15.9 12.6 19.0

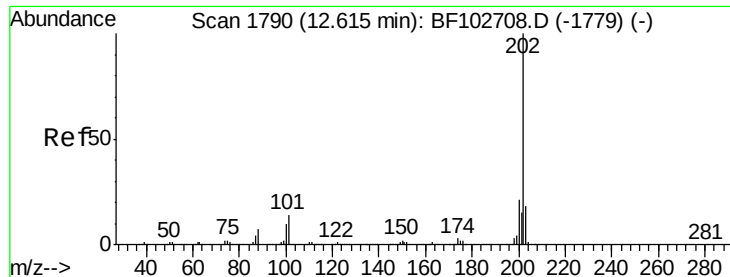


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

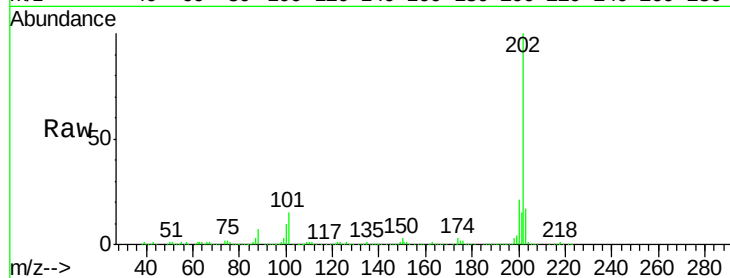




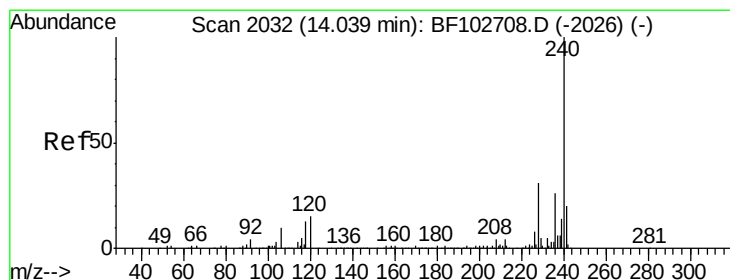
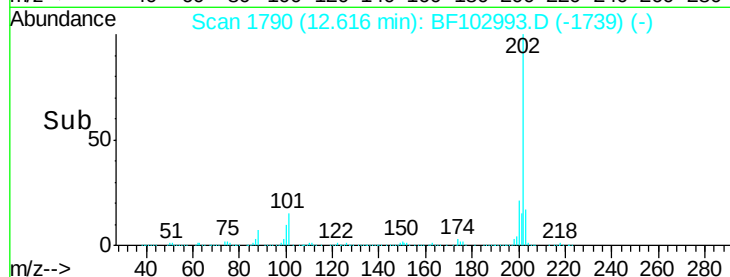
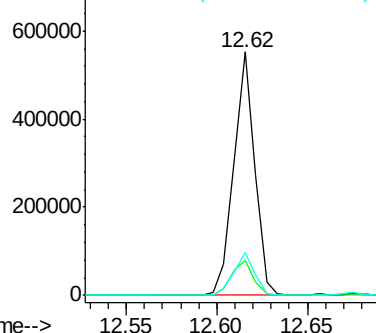
#74
Fluoranthene
Concen: 24.96 ng
RT: 12.62 min Scan# 1790
Delta R.T. 0.00 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.5	0.0	34.1
203	17.4	0.0	38.1

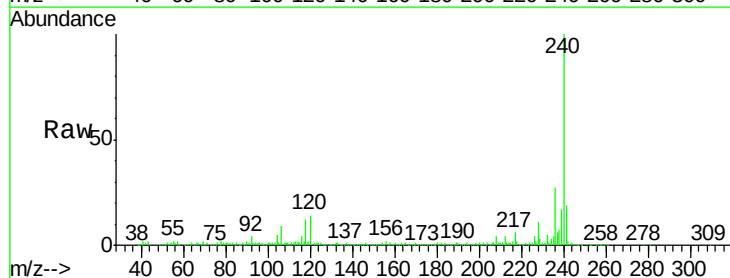


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

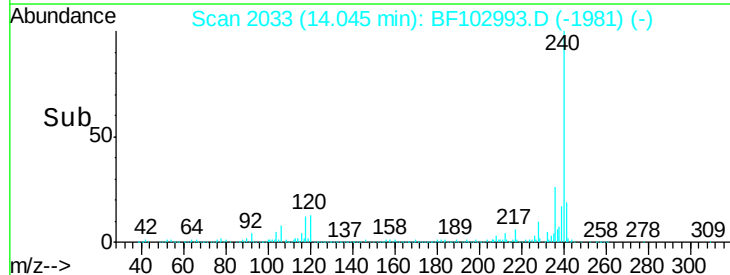
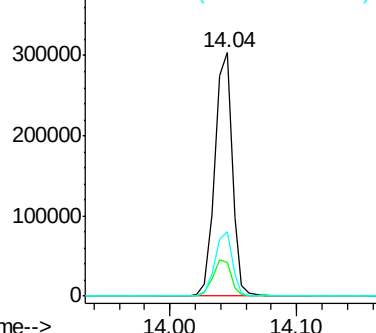


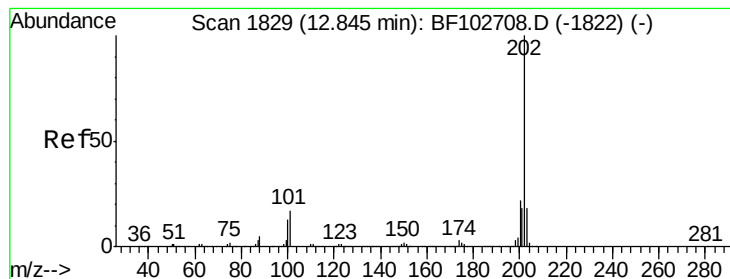
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.04 min Scan# 2033
Delta R.T. 0.01 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.7	9.5	14.3
236	26.6	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: 17.22 ng

RT: 12.84 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

Instrument :

BNA_F

ClientSampled :

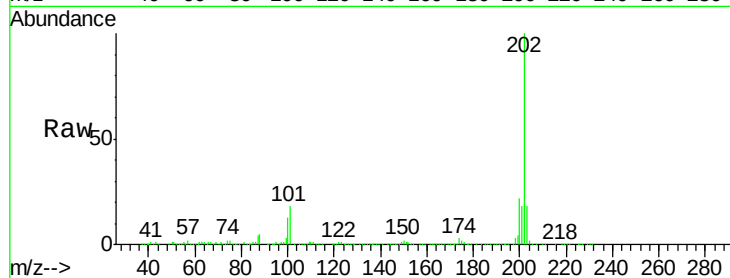
Tot Ion:202 Resp: 390963

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

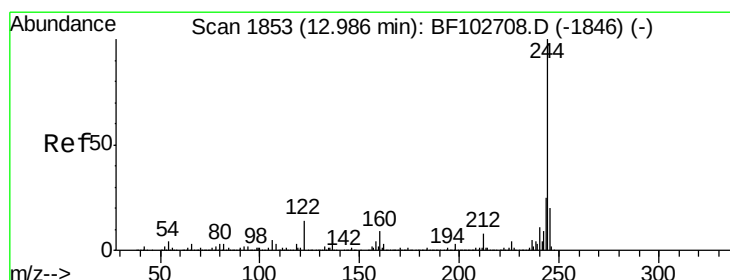
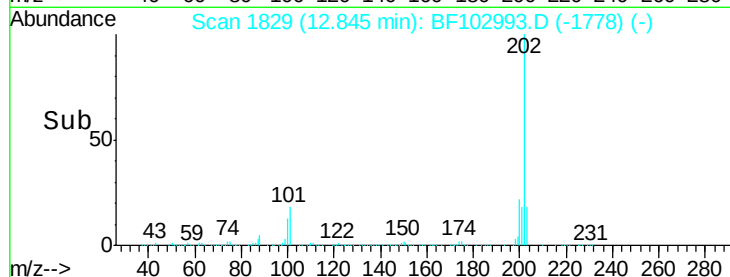
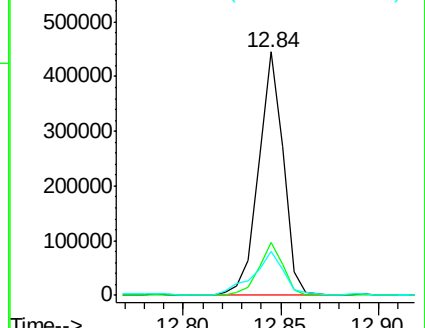
203 17.9 14.3 21.5



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: 60.78 ng

RT: 12.99 min Scan# 1853

Delta R.T. 0.00 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

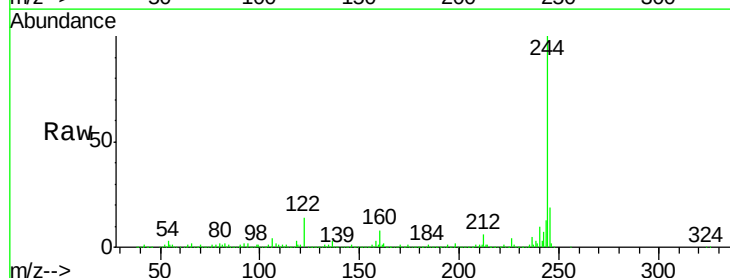
Tgt Ion:244 Resp: 743062

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

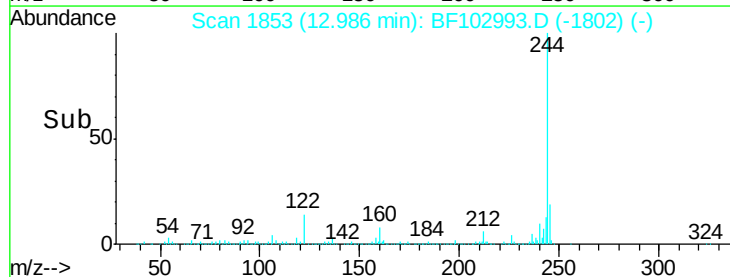
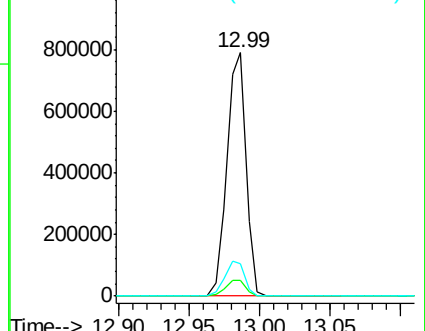
122 13.6 11.0 16.4

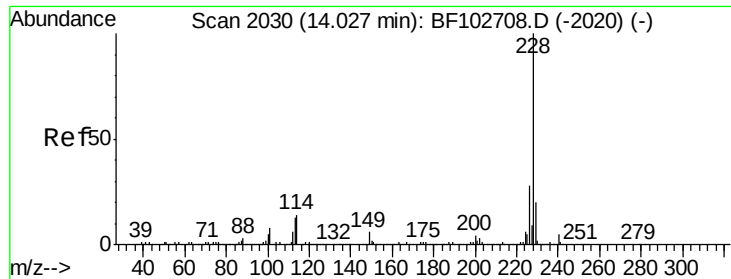


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.33 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

Instrument :

BNA_F

ClientSampled :

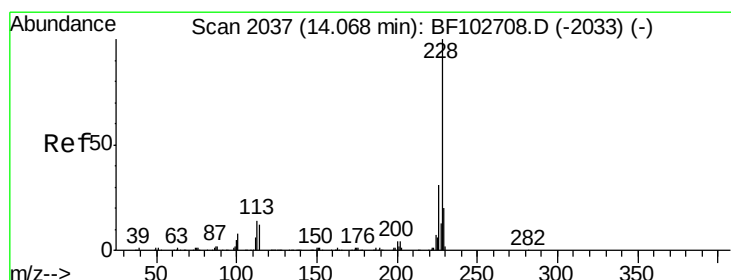
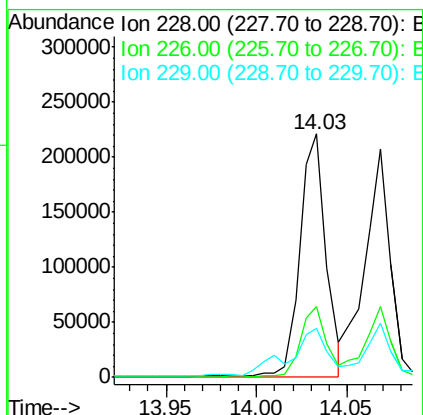
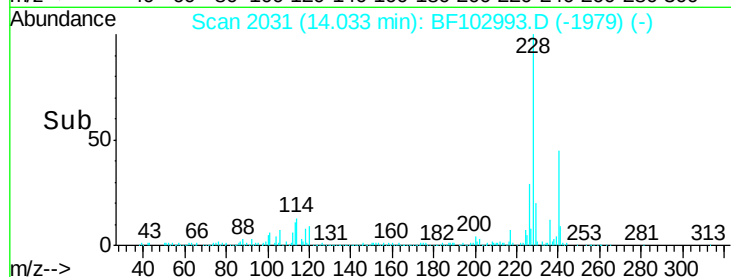
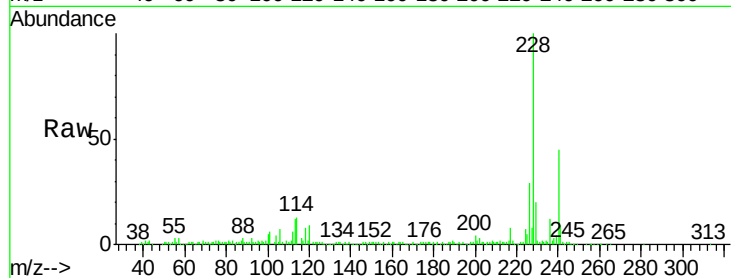
Tot Ion:228 Resp: 224411

Ion Ratio Lower Upper

228 100

226 28.8 22.6 33.8

229 20.1 15.8 23.6



#82

Chrysene

Concen: 11.11 ng

RT: 14.07 min Scan# 2037

Delta R.T. 0.00 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

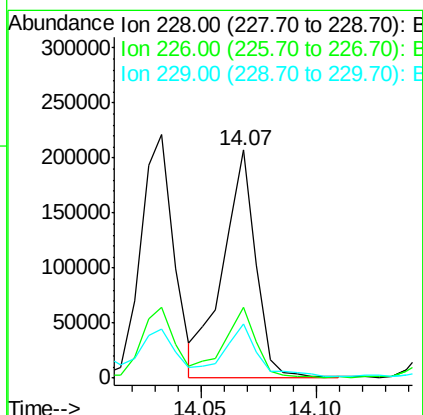
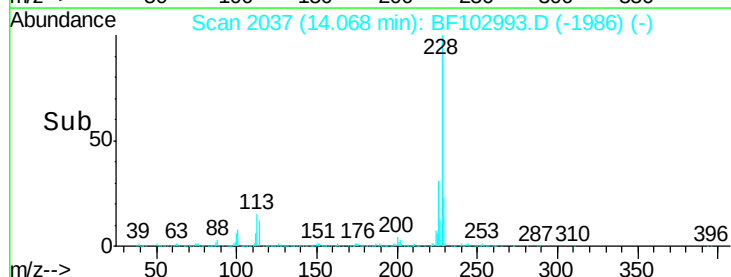
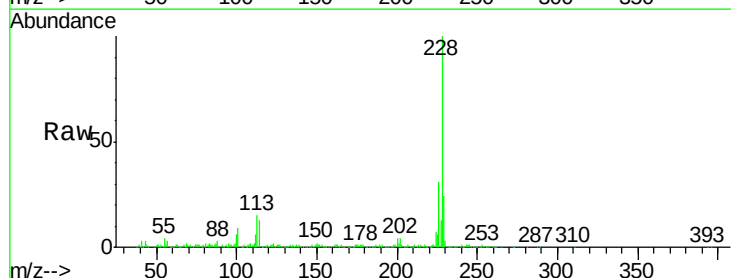
Tgt Ion:228 Resp: 203825

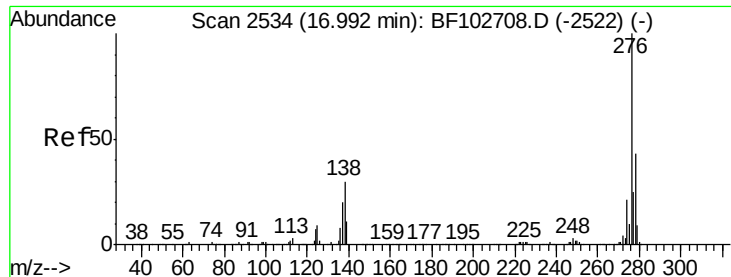
Ion Ratio Lower Upper

228 100

226 30.8 25.0 37.6

229 23.5 16.2 24.4

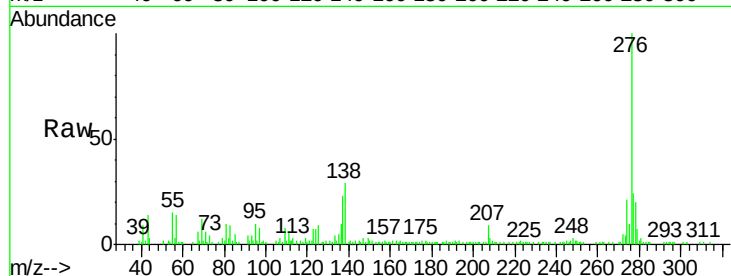




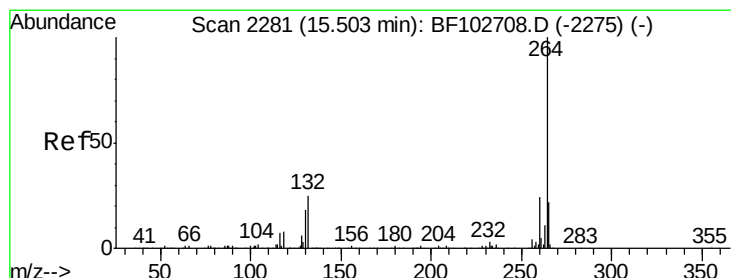
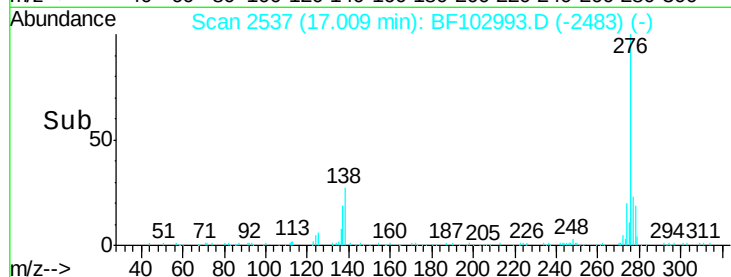
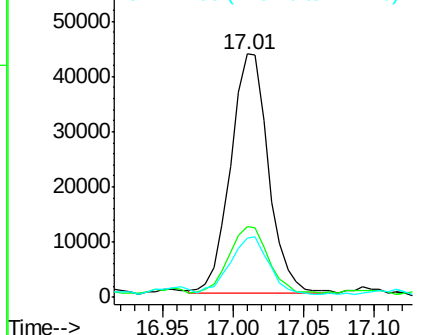
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.33 ng
 RT: 17.01 min Scan# 2537
 Delta R.T. 0.02 min
 Lab File: BF102993.D
 Acq: 14 Feb 2018 16:57

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 81174
 Ion Ratio Lower Upper
 276 100
 138 30.1 25.0 37.6
 277 24.9 20.1 30.1

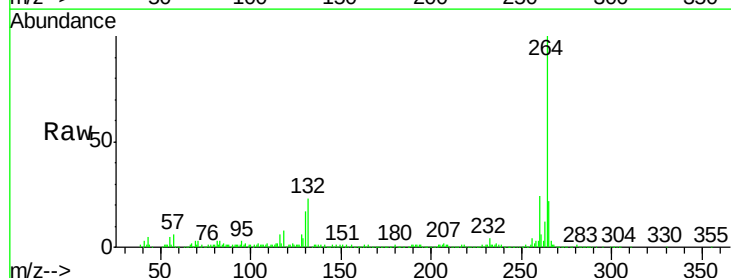


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

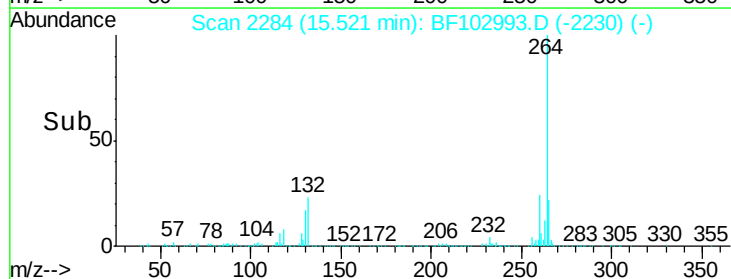
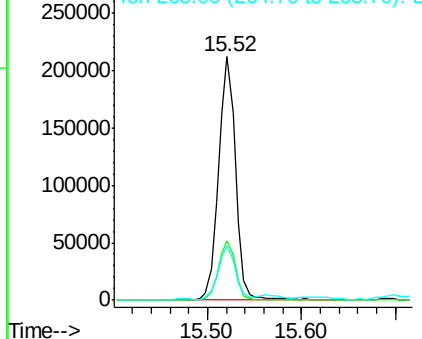


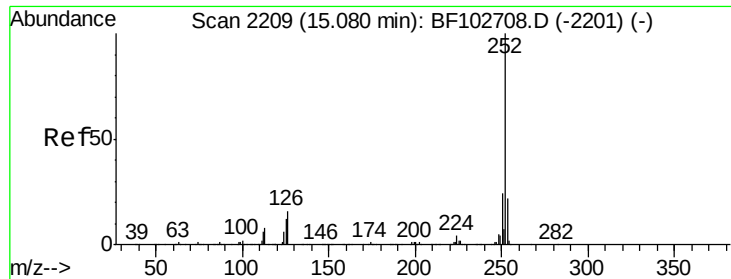
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.52 min Scan# 2284
 Delta R.T. 0.02 min
 Lab File: BF102993.D
 Acq: 14 Feb 2018 16:57

Tgt Ion:264 Resp: 266275
 Ion Ratio Lower Upper
 264 100
 260 24.2 19.2 28.8
 265 22.5 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

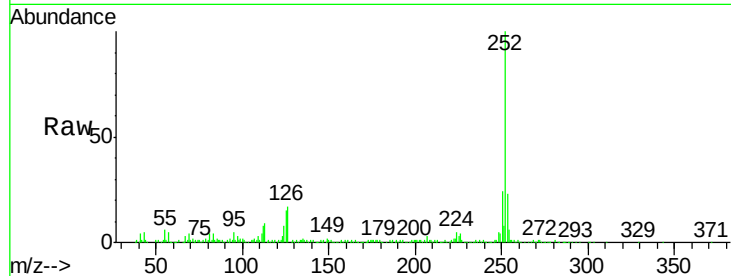




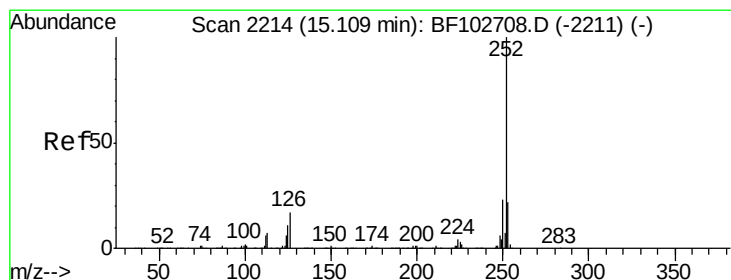
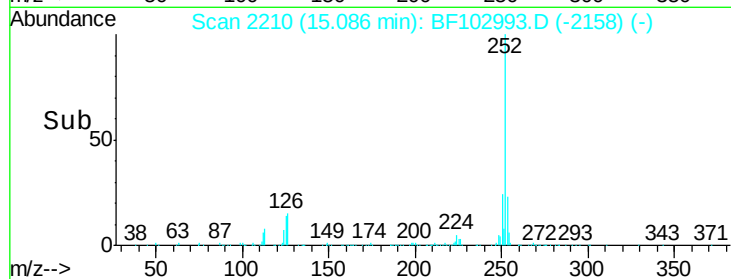
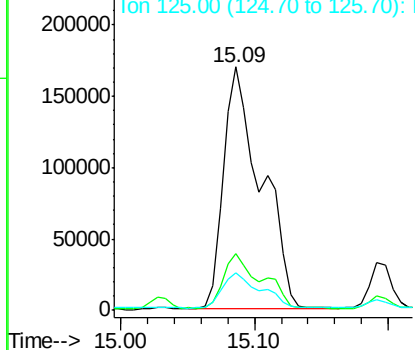
#87
Benzo(b)fluoranthene
Concen: 19.59 ng
RT: 15.09 min Scan# 2210
Delta R.T. 0.01 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.6
125	15.5	9.0	13.6

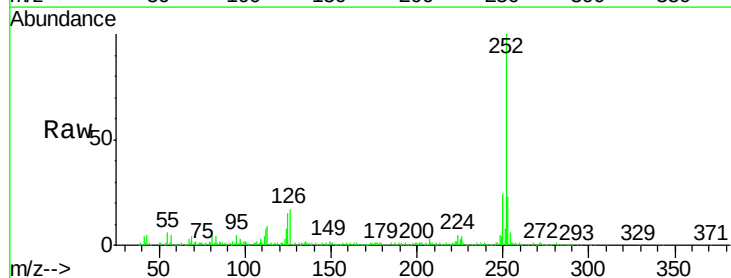


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

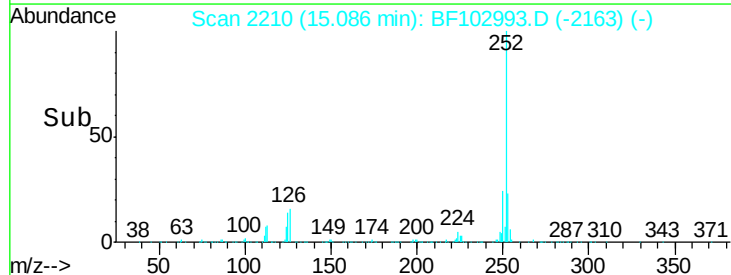
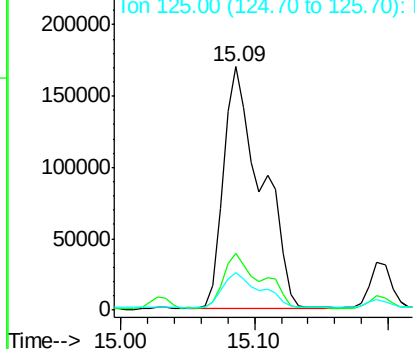


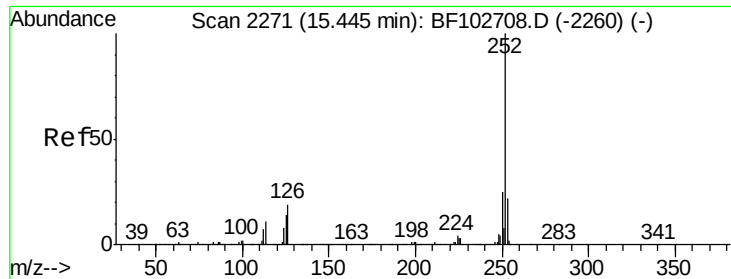
#88
Benzo(k)fluoranthene
Concen: 20.50 ng
RT: 15.09 min Scan# 2210
Delta R.T. -0.02 min
Lab File: BF102993.D
Acq: 14 Feb 2018 16:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	15.5	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: 10.75 ng

RT: 15.46 min Scan# 2273

Delta R.T. 0.01 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

Instrument :

BNA_F

ClientSampleId :

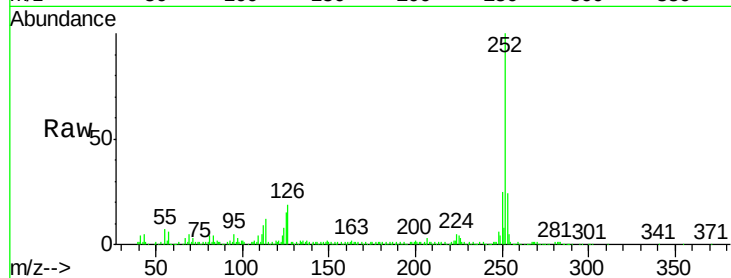
Tot Ion:252 Resp: 166998

Ion Ratio Lower Upper

252 100

253 24.3 17.1 25.7

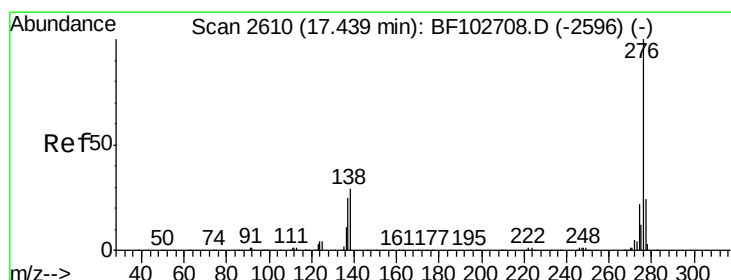
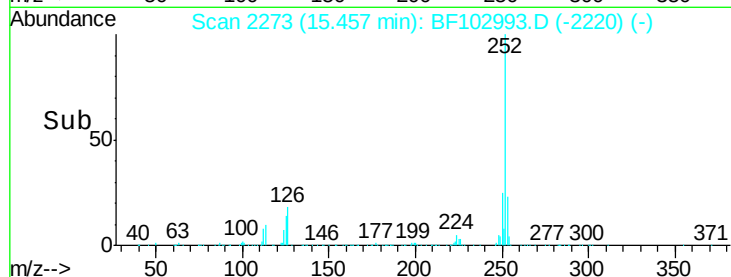
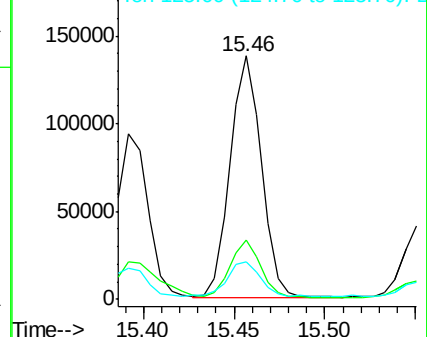
125 15.5 9.8 14.6#



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



#91

Benzo(g,h,i)perylene

Concen: 5.95 ng

RT: 17.47 min Scan# 2615

Delta R.T. 0.03 min

Lab File: BF102993.D

Acq: 14 Feb 2018 16:57

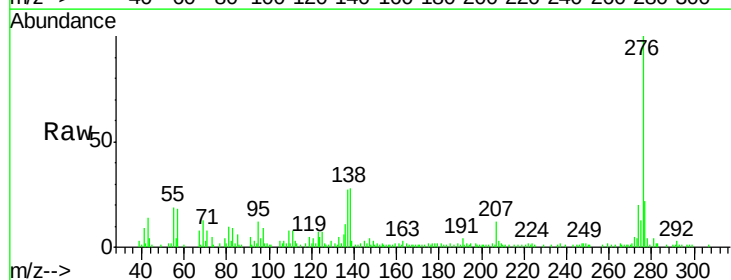
Tgt Ion:276 Resp: 73444

Ion Ratio Lower Upper

276 100

277 22.4 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

