

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020218\
 Data File : BF102703.D
 Acq On : 2 Feb 2018 12:43
 Operator : SJ/JU
 Sample : J1405-02DL 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

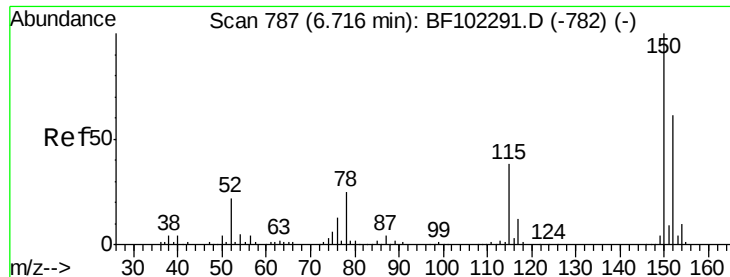
Quant Time: Feb 02 13:25:39 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 31 18:38:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	153083	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	652618	20.00	ng	-0.01
38) Acenaphthene-d10	9.72	164	275772	20.00	ng	-0.02
63) Phenanthrene-d10	11.22	188	405582	20.00	ng	-0.01
75) Chrysene-d12	13.86	240	247912	20.00	ng	-0.01
86) Perylene-d12	15.29	264	300961	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	40694	4.03	ng	0.06
7) Phenol-d6	6.40	99	115818	9.52	ng	0.04
23) Nitrobenzene-d5	7.27	82	72172	6.36	ng	0.00
41) 2,4,6-Tribromophenol	10.53	330	21109	7.73	ng	0.00
44) 2-Fluorobiphenyl	9.05	172	153433	8.18	ng	-0.02
78) Terphenyl-d14	12.79	244	93857	8.53	ng	-0.02

Target Compounds				Qvalue		
25) Isophorone	7.27	82	72172	3.565	ng	# 66
50) 2,6-Dinitrotoluene	9.72	165	37166	7.563	ng	# 26
51) Acenaphthene	9.76	154	117377	6.731	ng	98
54) Dibenzofuran	9.93	168	113947	4.828	ng	99
55) 4-Nitrophenol	9.93	139	42049	10.957	ng	# 10
57) Fluorene	10.27	166	156342	8.360	ng	100
70) Phenanthrene	11.24	178	1043900	44.169	ng	99
71) Anthracene	11.29	178	252588	10.471	ng	97
72) Carbazole	11.46	167	139260	5.917	ng	98
74) Fluoranthene	12.43	202	923893	38.334	ng	99
77) Pyrene	12.66	202	777005	40.537	ng	99
80) Benzo(a)anthracene	13.84	228	341834	22.396	ng	99
82) Chrysene	13.89	228	335511	21.646	ng	97
85) Indeno(1,2,3-cd)pyrene	16.69	276	277446	21.675	ng	92
87) Benzo(b)fluoranthene	14.88	252	619957	31.782	ng	# 96
88) Benzo(k)fluoranthene	14.88	252	619957	33.639	ng	98
89) Benzo(a)pyrene	15.23	252	350575	19.927	ng	# 95
90) Dibenzo(a,h)anthracene	16.85	278	53555	3.758	ng	92
91) Benzo(a,h,i)perylene	17.11	276	281298	19.991	ng	93

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

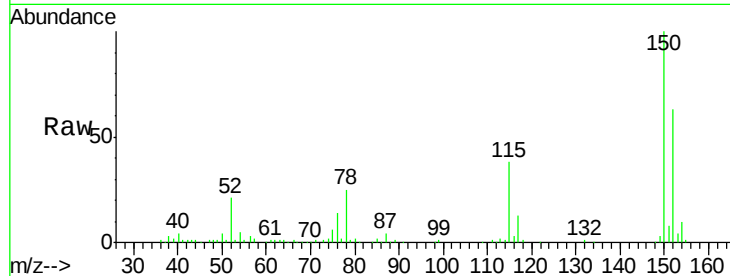


#1

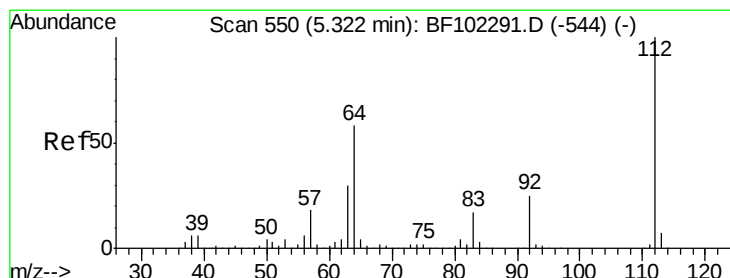
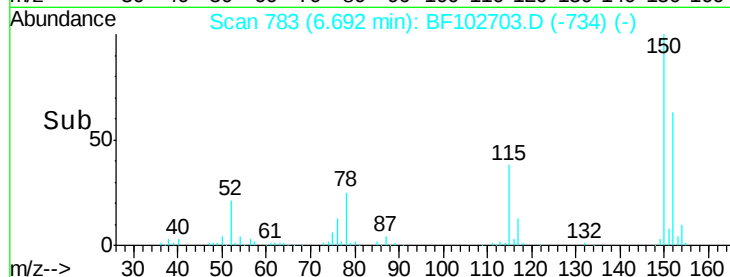
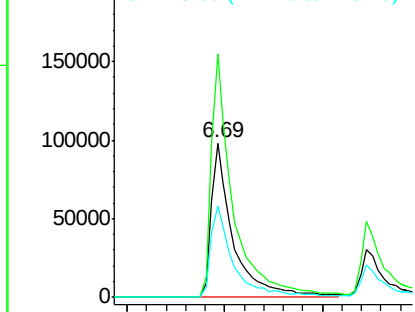
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 783
Delta R.T. -0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 153083
Ion Ratio Lower Upper
152 100
150 157.8 124.6 186.8
115 59.4 50.1 75.1



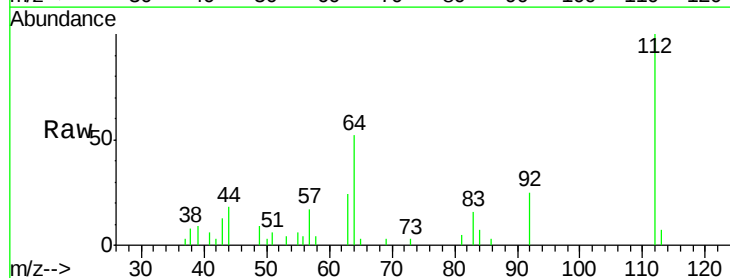
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



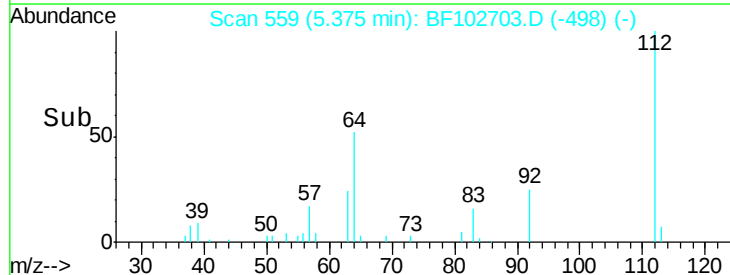
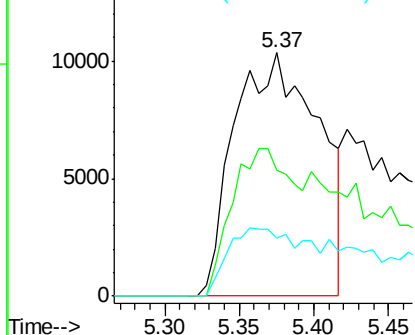
#5

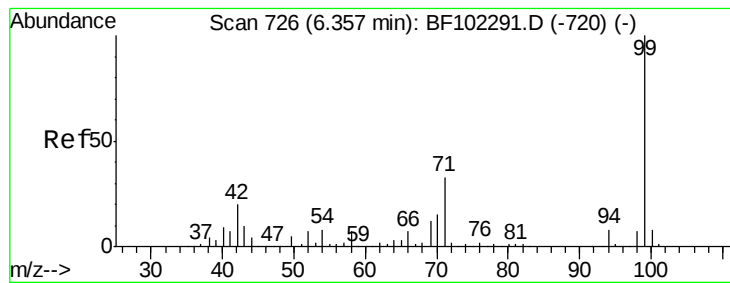
2-Fluorophenol
Concen: 4.031 ng
RT: 5.37 min Scan# 559
Delta R.T. 0.06 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion:112 Resp: 40694
Ion Ratio Lower Upper
112 100
64 51.5 47.9 71.9
63 23.9 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: 9.515 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.04 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

ClientSampleId :

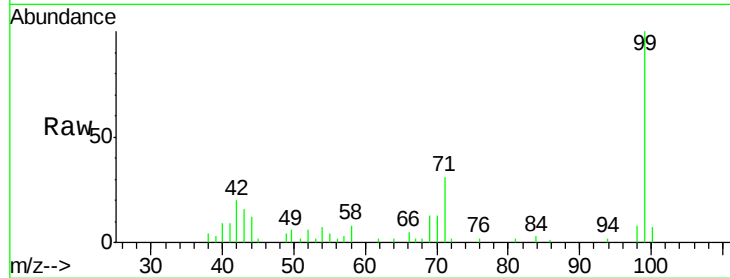
Tot Ion: 99 Resp: 115818

Ion Ratio Lower Upper

99 100

42 20.4 14.5 21.7

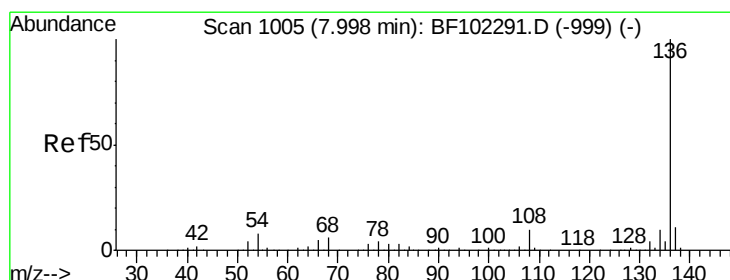
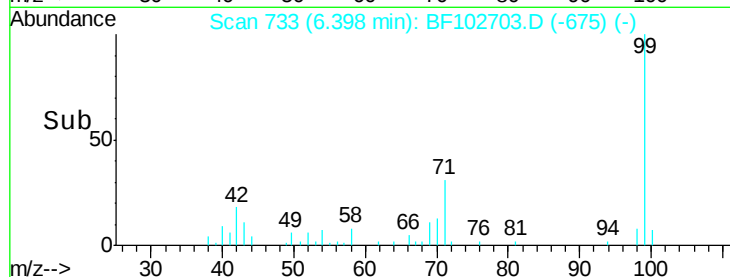
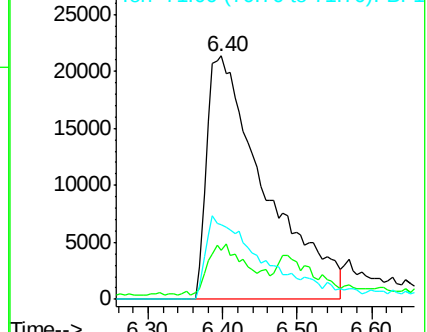
71 30.6 25.4 38.0



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: 7.97 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Tgt Ion: 136 Resp: 652618

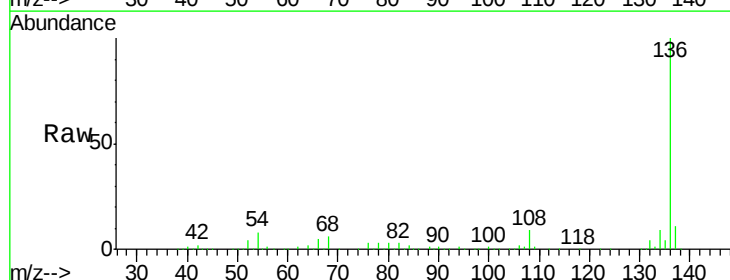
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 8.3 6.6 9.8

68 5.7 5.0 7.4

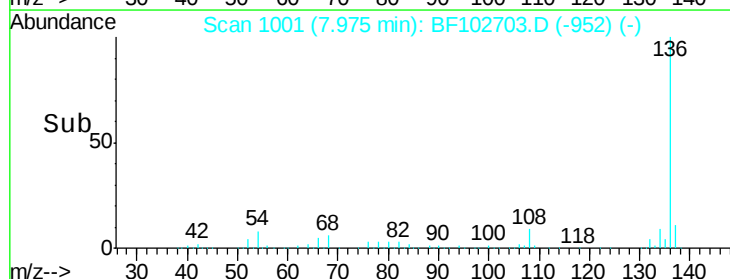
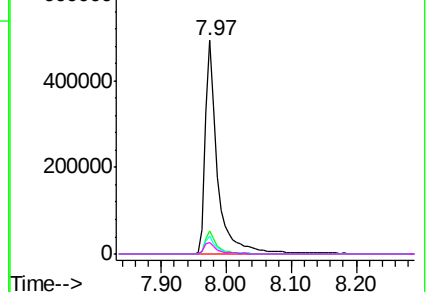


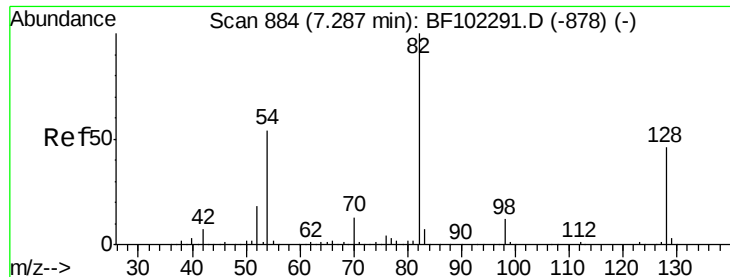
Abundance Ion 136.00 (135.70 to 136.70): E

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

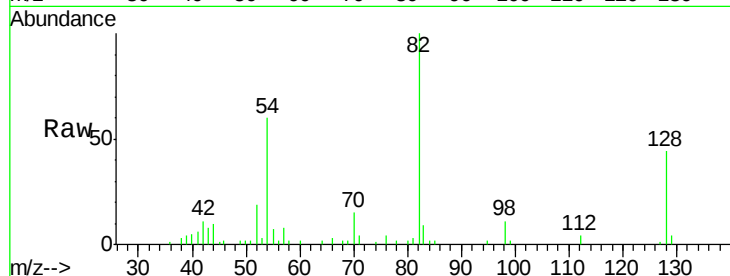




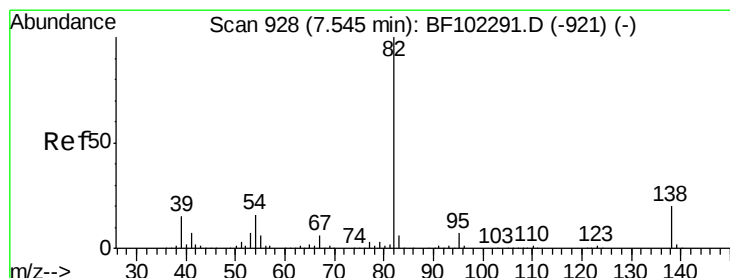
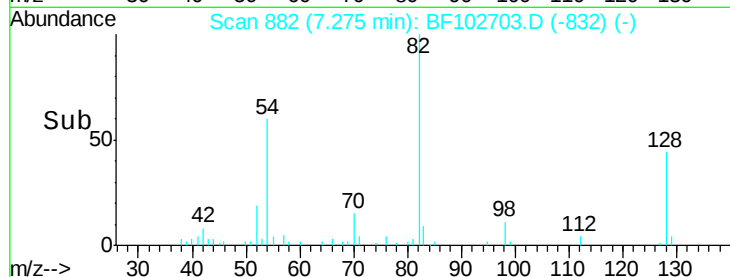
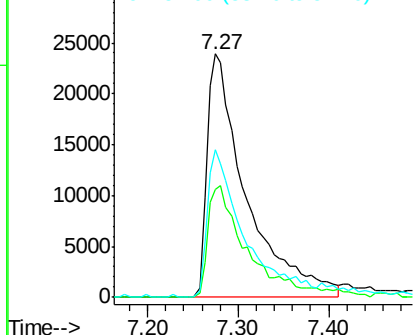
#23
 Nitrobenzene-d5
 Concen: 6.355 ng
 RT: 7.27 min Scan# 882
 Delta R.T. -0.01 min
 Lab File: BF102703.D
 Acq: 2 Feb 2018 12:43

Instrument :
 BNA_F
 ClientSampled :

Tot Ion: 82 Resp: 72172
 Ion Ratio Lower Upper
 82 100
 128 44.5 36.1 54.1
 54 60.5 41.4 62.2

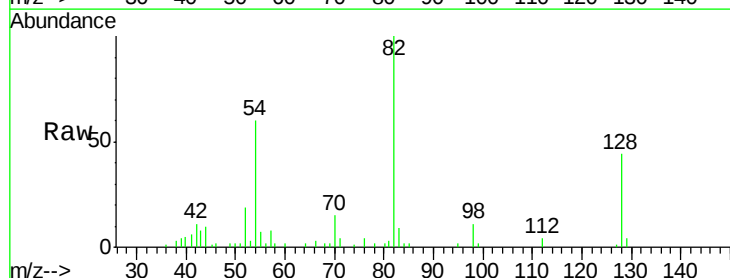


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

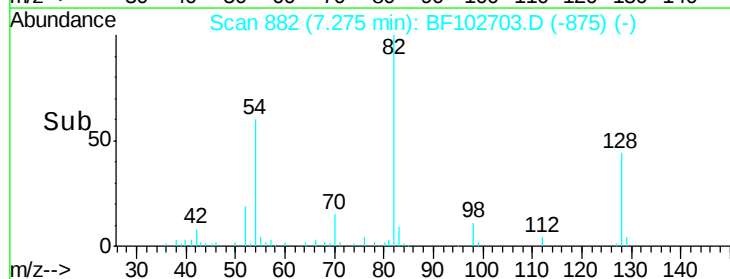
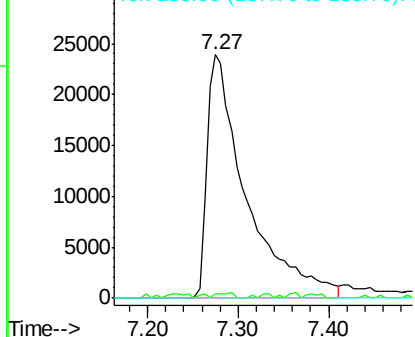


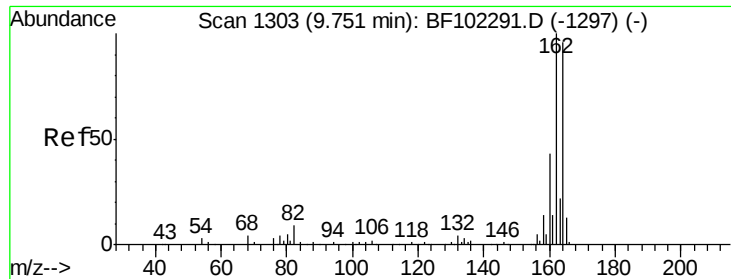
#25
 Isophorone
 Concen: 3.565 ng
 RT: 7.27 min Scan# 882
 Delta R.T. -0.26 min
 Lab File: BF102703.D
 Acq: 2 Feb 2018 12:43

Tgt Ion: 82 Resp: 72172
 Ion Ratio Lower Upper
 82 100
 95 1.8 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

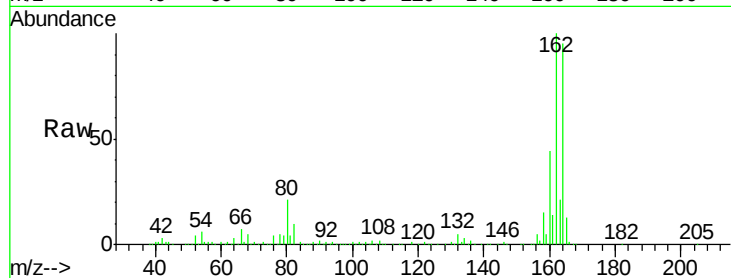




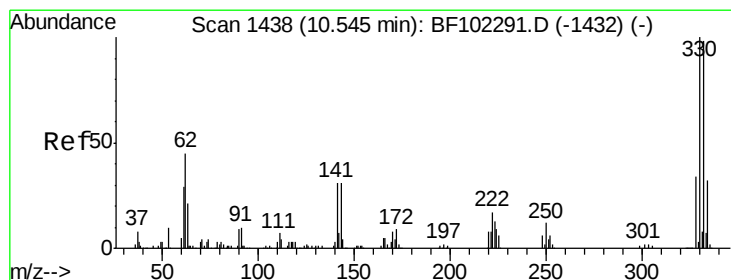
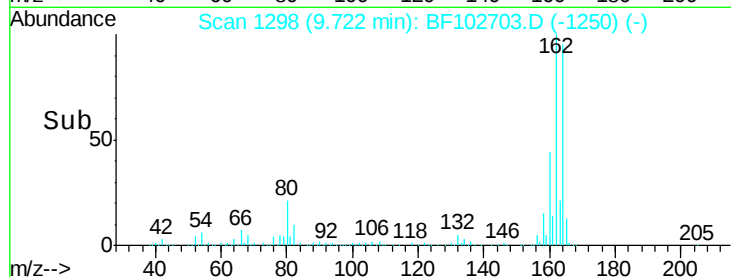
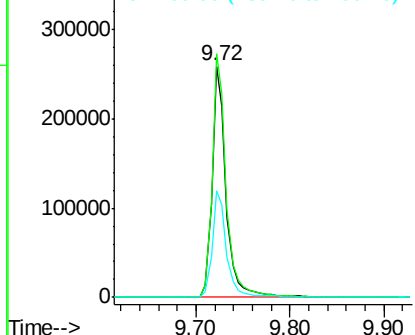
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BF102703.D
 Acq: 2 Feb 2018 12:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 275772
 Ion Ratio Lower Upper
 164 100
 162 105.3 86.1 129.1
 160 46.0 38.3 57.5

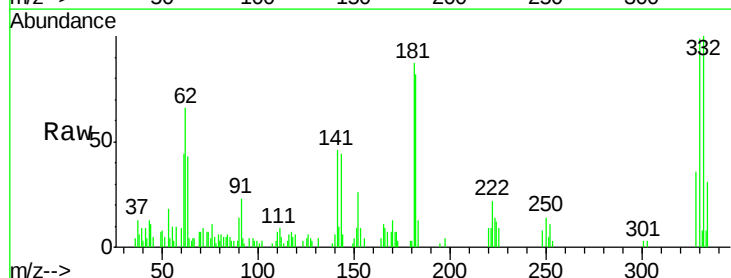


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

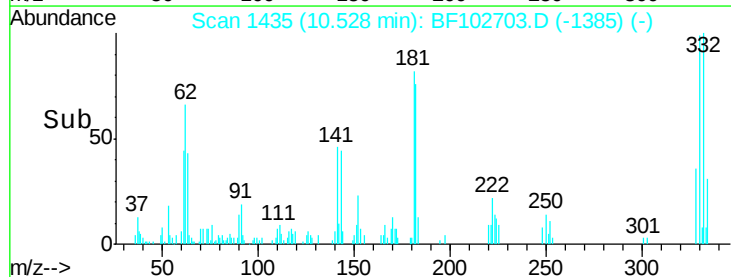
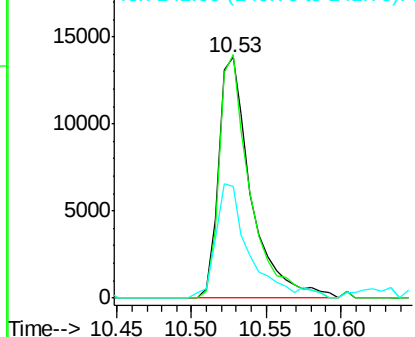


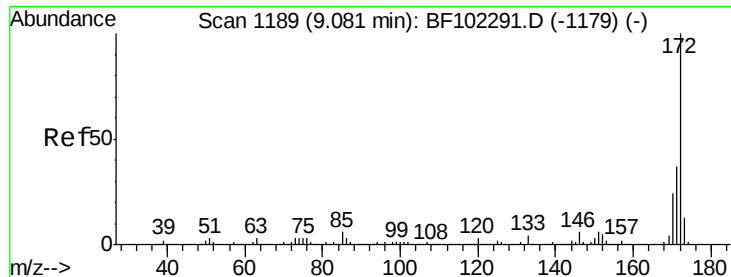
#41
 2,4,6-Tribromophenol
 Concen: 7.725 ng
 RT: 10.53 min Scan# 1435
 Delta R.T. -0.01 min
 Lab File: BF102703.D
 Acq: 2 Feb 2018 12:43

Tgt Ion:330 Resp: 21109
 Ion Ratio Lower Upper
 330 100
 332 95.7 77.0 115.6
 141 46.8 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

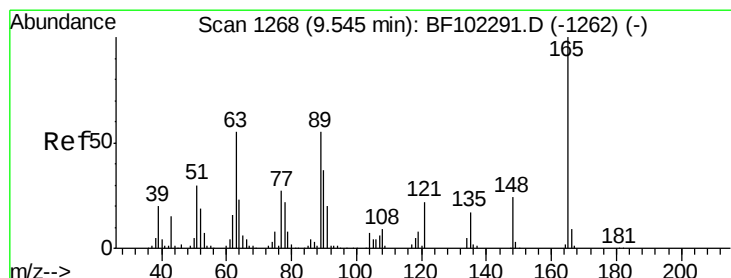
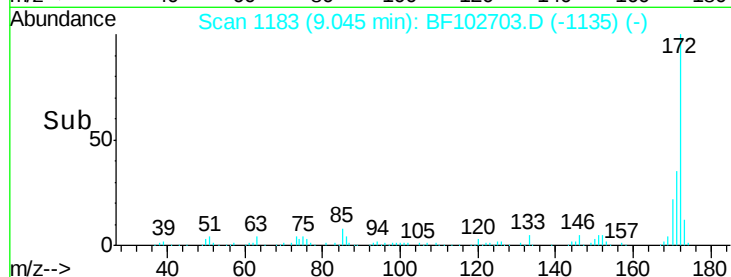
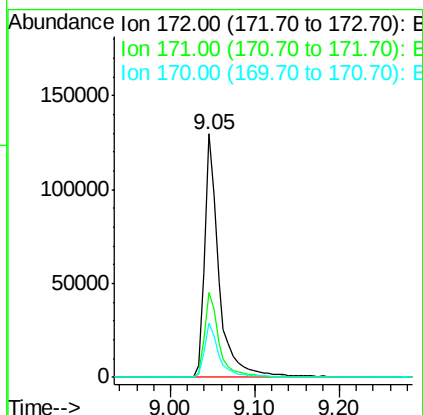
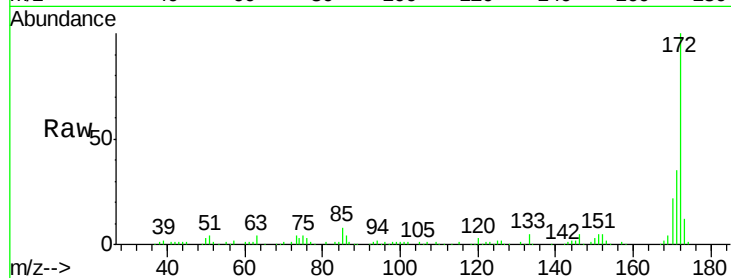




#44
 2-Fluorobiphenyl
 Concen: 8.181 ng
 RT: 9.05 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF102703.D
 Acq: 2 Feb 2018 12:43

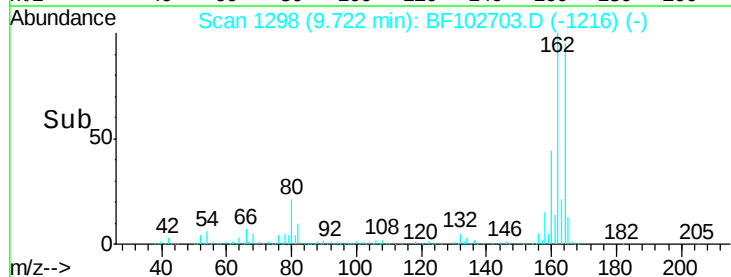
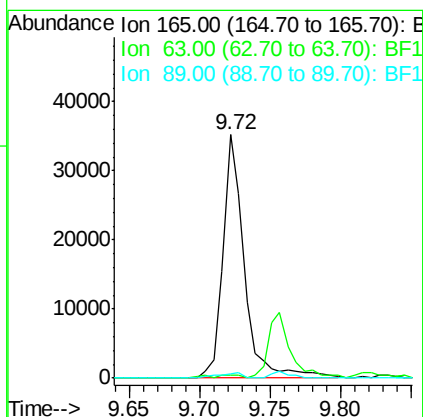
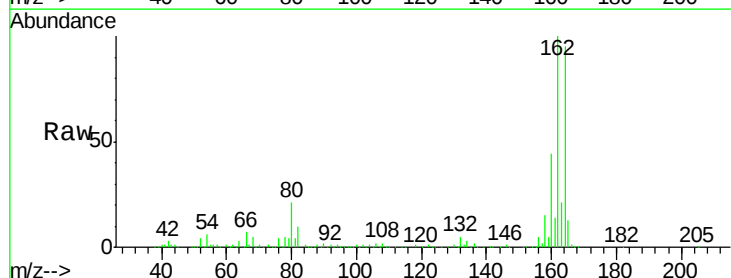
Instrument :
 BNA_F
 ClientSampleId :

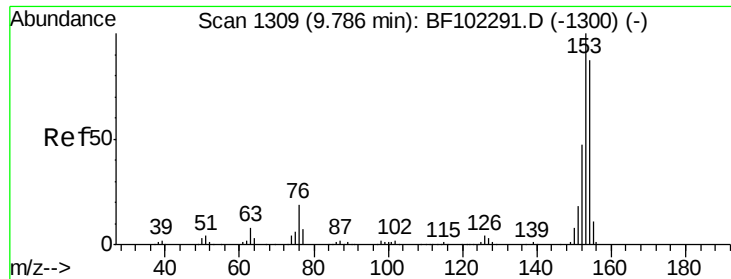
Tot Ion:172 Resp: 153433
 Ion Ratio Lower Upper
 172 100
 171 34.8 29.7 44.5
 170 22.0 19.6 29.4



#50
 2,6-Dinitrotoluene
 Concen: 7.563 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. 0.18 min
 Lab File: BF102703.D
 Acq: 2 Feb 2018 12:43

Tgt Ion:165 Resp: 37166
 Ion Ratio Lower Upper
 165 100
 63 1.2 44.7 67.1#
 89 1.7 44.0 66.0#





#51

Acenaphthene

Concen: 6.731 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.02 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

ClientSampleId :

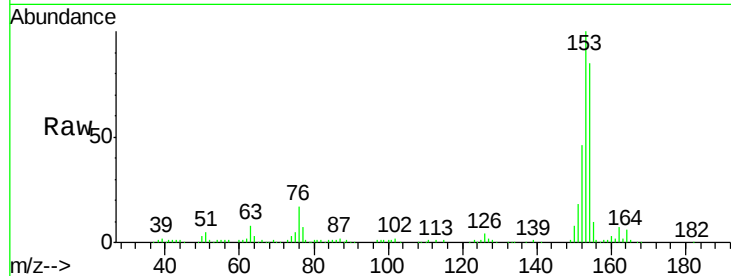
Tot Ion:154 Resp: 117377

Ion Ratio Lower Upper

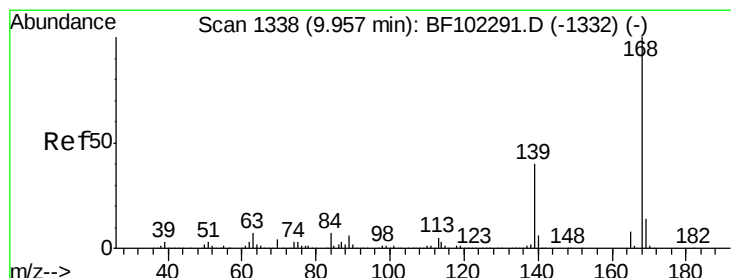
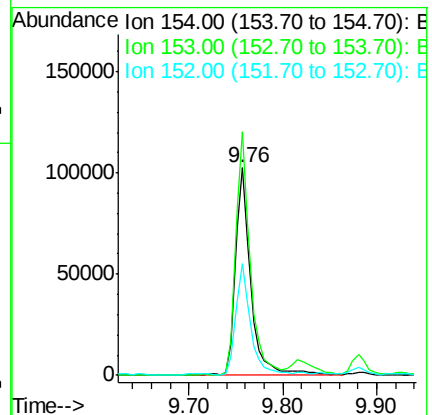
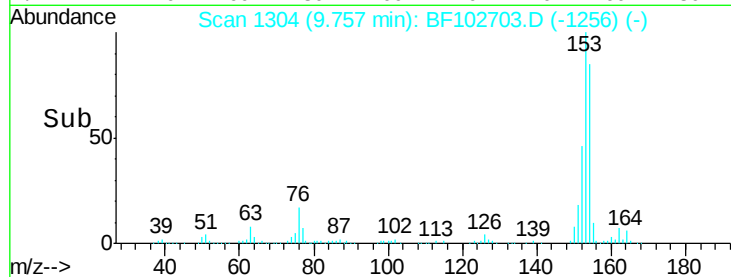
154 100

153 117.2 91.2 136.8

152 53.9 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



#54

Dibenzofuran

Concen: 4.828 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

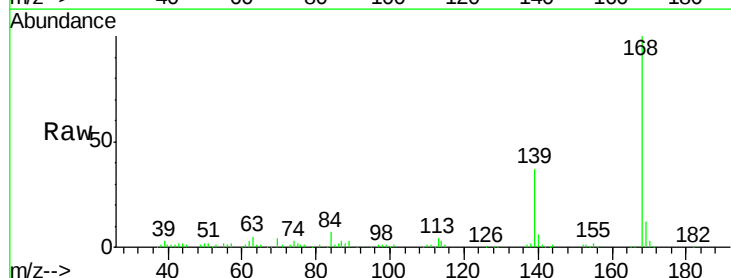
Tgt Ion:168 Resp: 113947

Ion Ratio Lower Upper

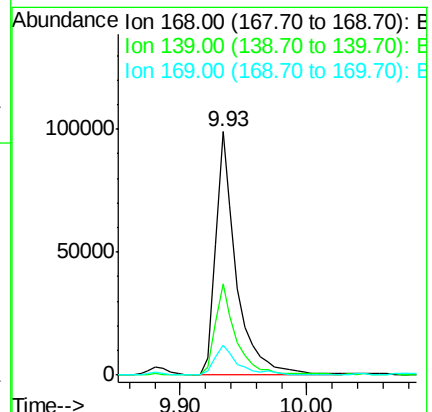
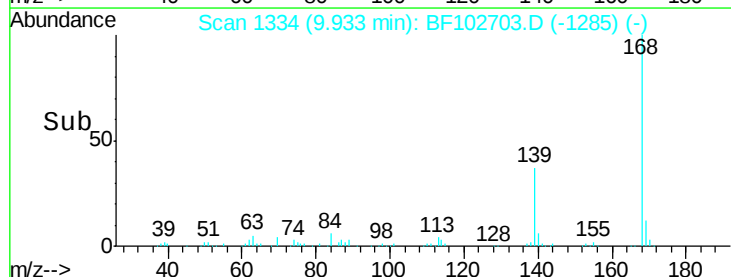
168 100

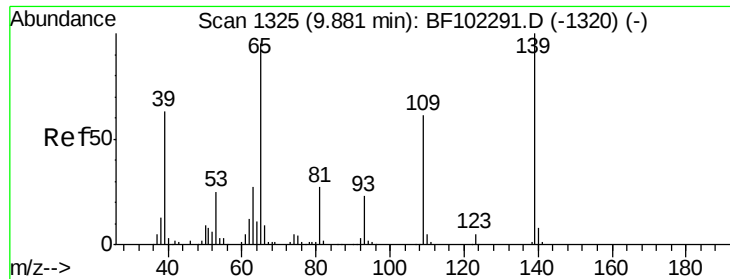
139 37.5 30.1 45.1

169 12.2 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

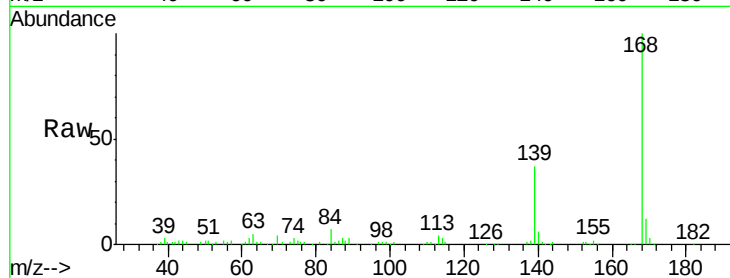




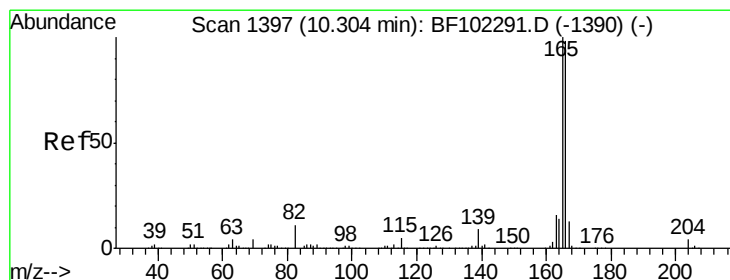
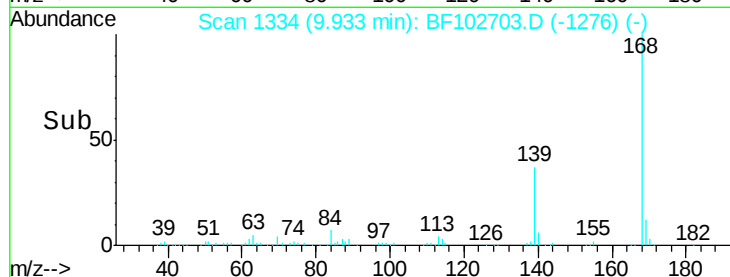
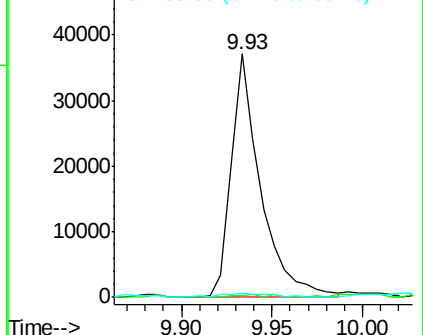
#55
4-Nitrophenol
Concen: 10.957 ng
RT: 9.93 min Scan# 1334
Delta R.T. 0.04 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.9	48.4	88.4#
65	1.8	72.6	112.6#

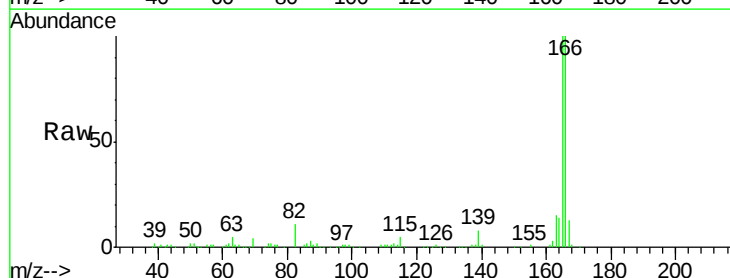


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

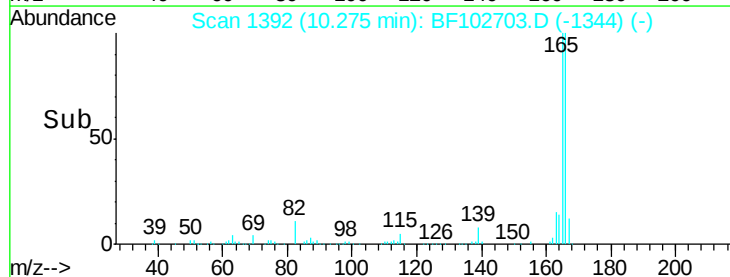
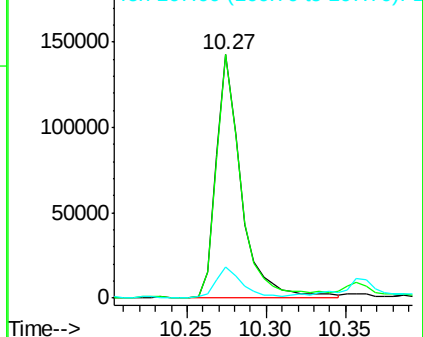


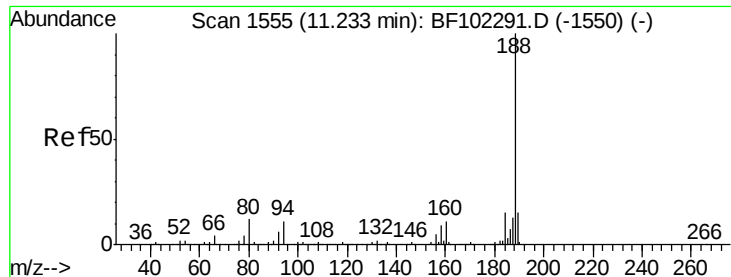
#57
Fluorene
Concen: 8.360 ng
RT: 10.27 min Scan# 1392
Delta R.T. -0.02 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.8	119.8
167	12.7	10.6	16.0



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

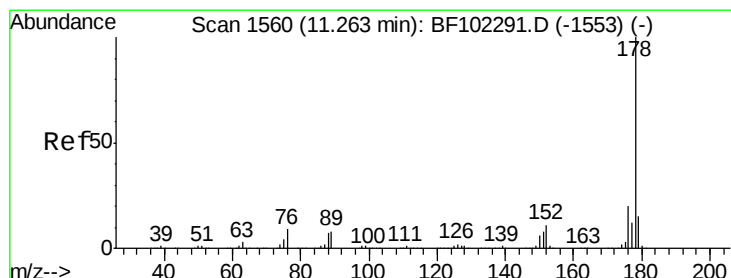
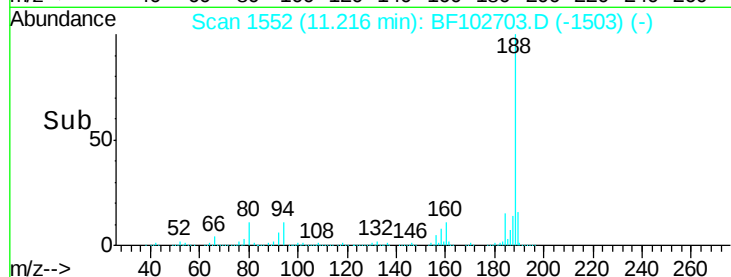
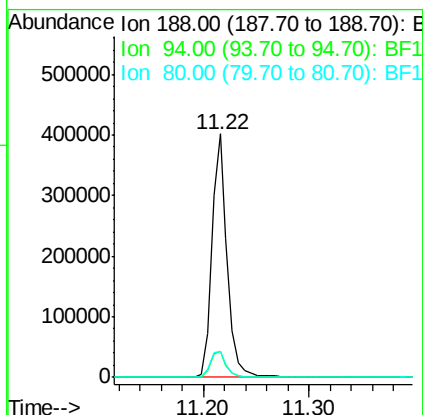
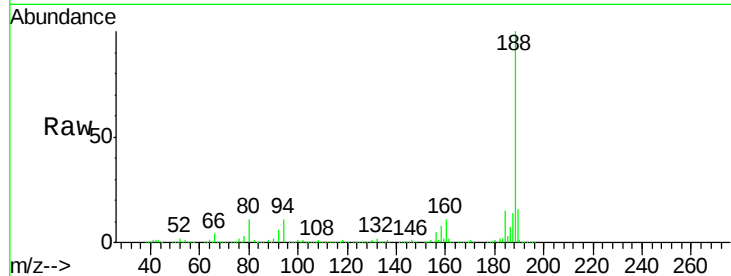




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.22 min Scan# 1552
Delta R.T. -0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

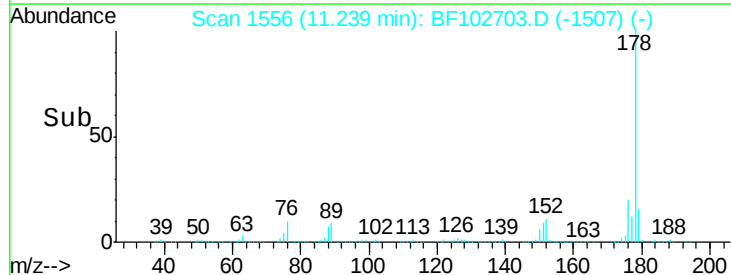
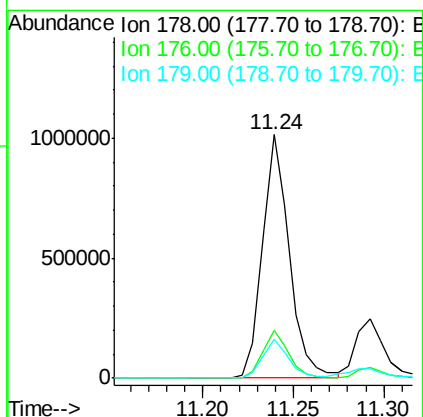
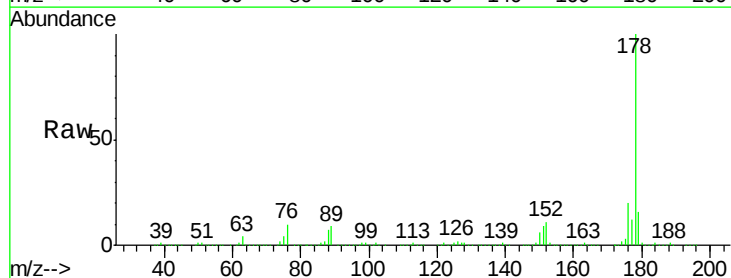
Instrument :
BNA_F
ClientSampled :

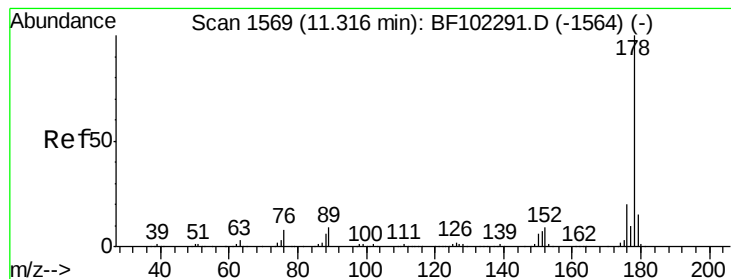
Tot Ion:188 Resp: 405582
Ion Ratio Lower Upper
188 100
94 10.8 8.5 12.7
80 10.9 9.2 13.8



#70
Phenanthrene
Concen: 44.169 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion:178 Resp: 1043900
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.8 13.0 19.6





#71

Anthracene

Concen: 10.471 ng

RT: 11.29 min Scan# 1565

Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

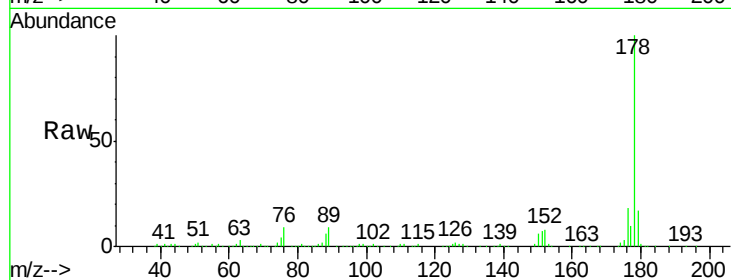
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 252588

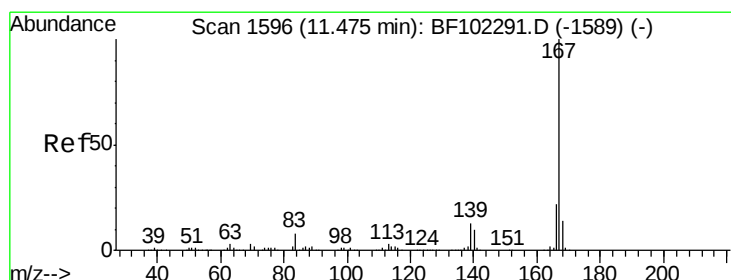
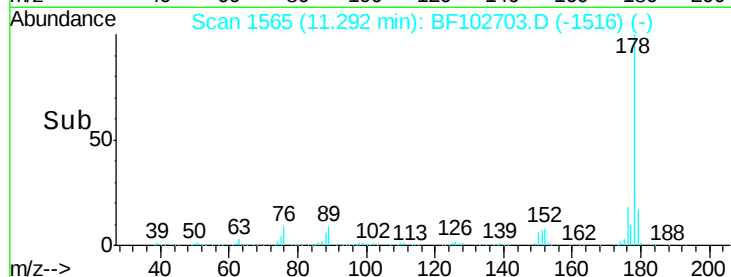
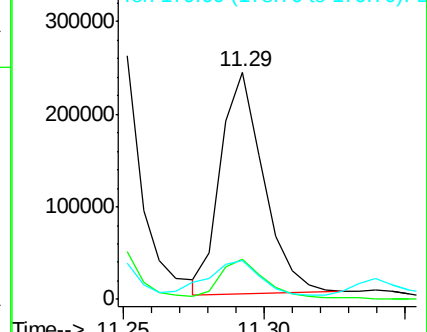
Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.4	23.2
179	17.0	12.6	19.0



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



#72

Carbazole

Concen: 5.917 ng

RT: 11.46 min Scan# 1594

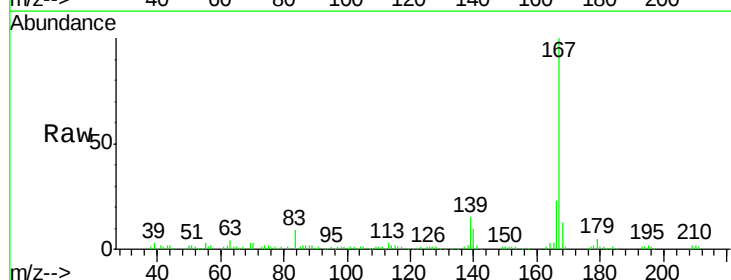
Delta R.T. 0.00 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Tgt Ion:167 Resp: 139260

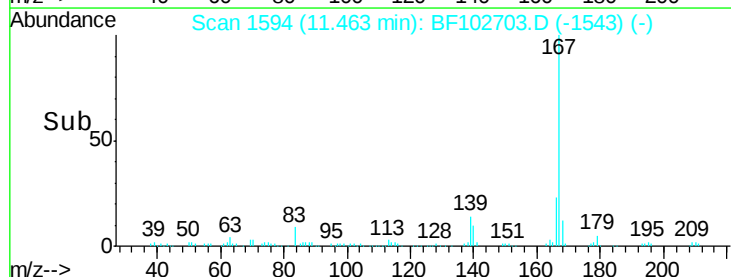
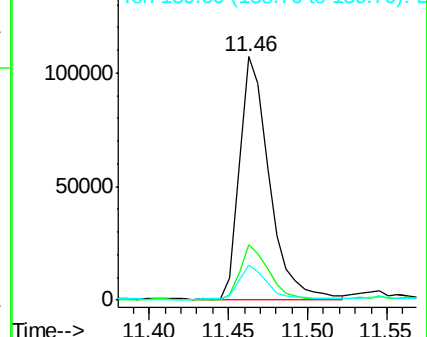
Ion	Ratio	Lower	Upper
167	100		
166	22.9	17.6	26.4
139	14.6	10.9	16.3

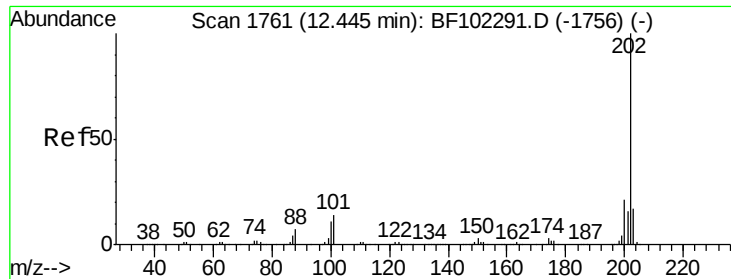


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 38.334 ng

RT: 12.43 min Scan# 1758

Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

ClientSampleId :

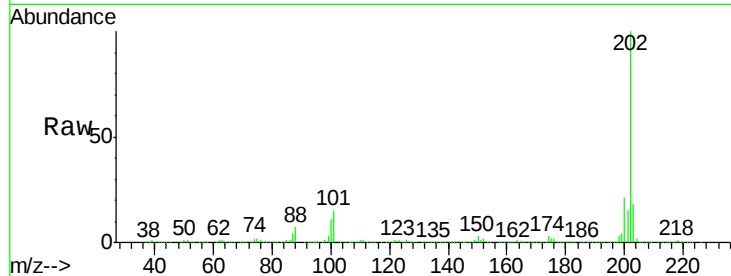
Tot Ion:202 Resp: 923893

Ion Ratio Lower Upper

202 100

101 14.5 0.0 34.1

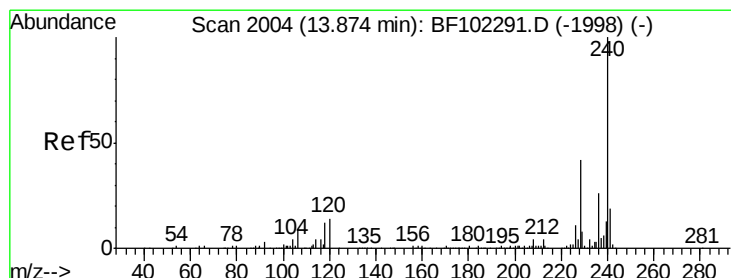
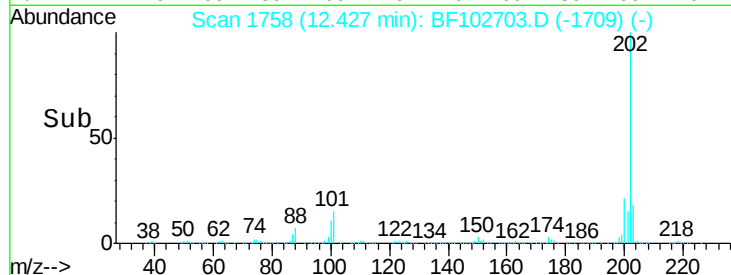
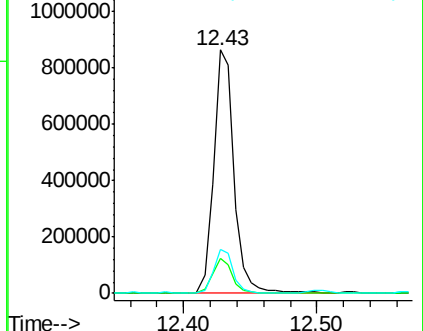
203 17.8 0.0 38.1



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: 13.86 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

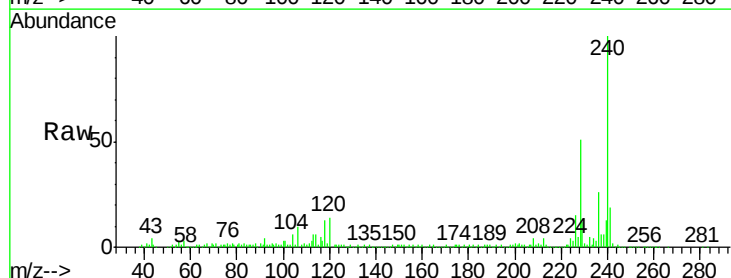
Tgt Ion:240 Resp: 247912

Ion Ratio Lower Upper

240 100

120 14.5 9.5 14.3#

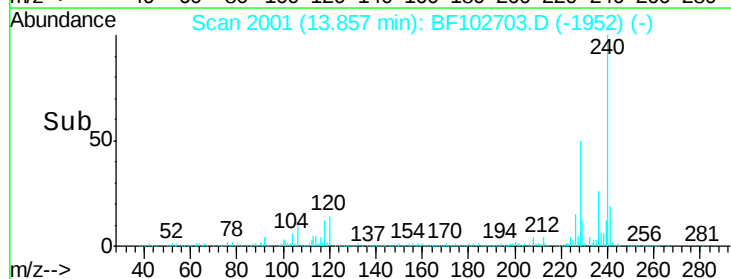
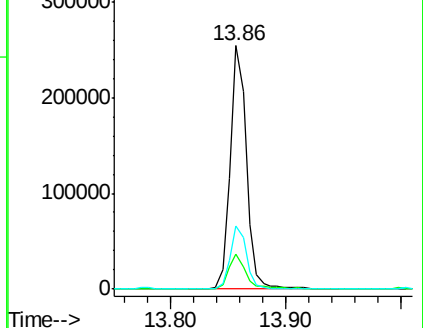
236 25.8 20.7 31.1

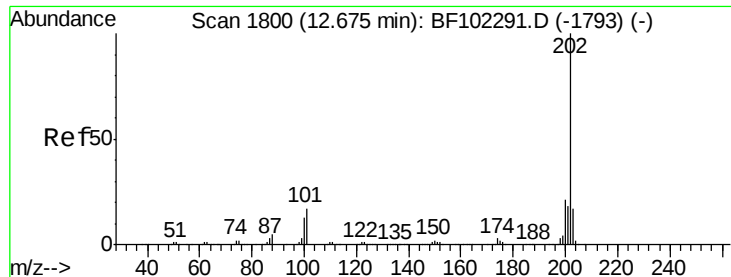


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 40.537 ng

RT: 12.66 min Scan# 1797

Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

ClientSampleId :

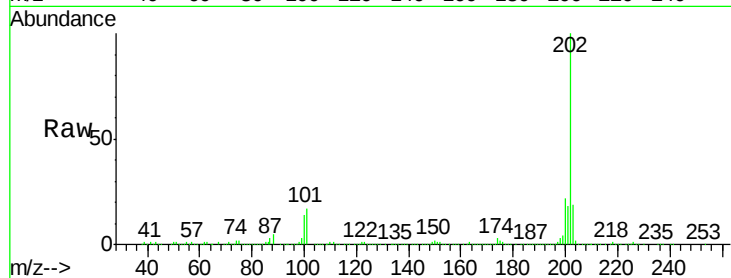
Tot Ion:202 Resp: 777005

Ion Ratio Lower Upper

202 100

200 21.7 17.4 26.2

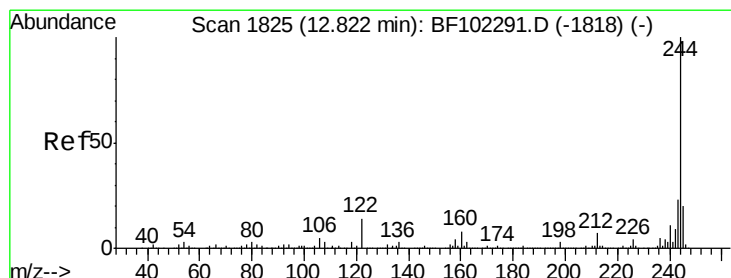
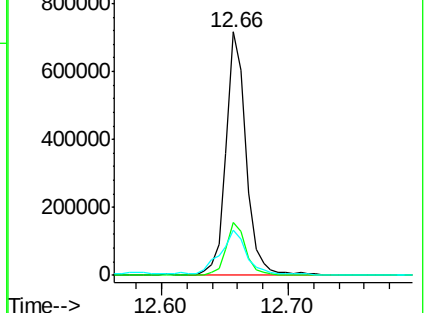
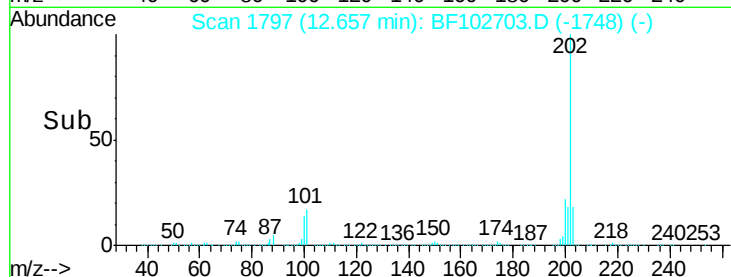
203 18.6 14.3 21.5



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: 8.535 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.02 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

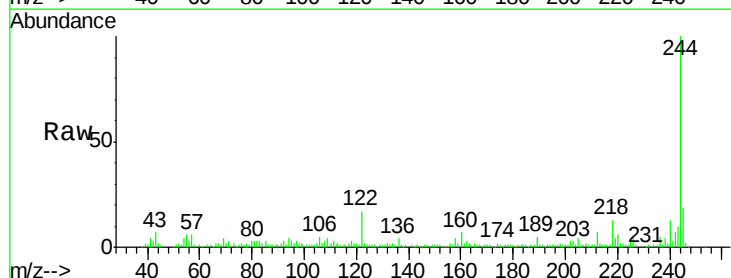
Tgt Ion:244 Resp: 93857

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

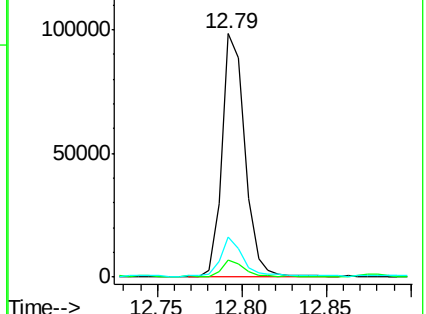
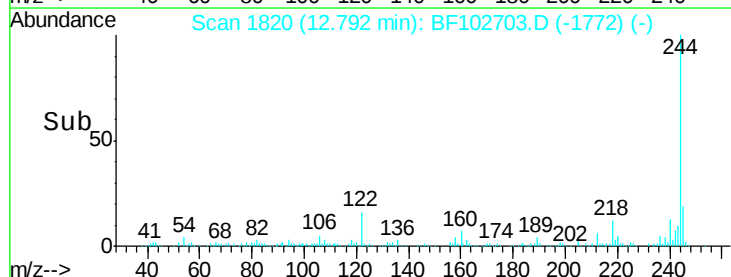
122 16.7 11.0 16.4#

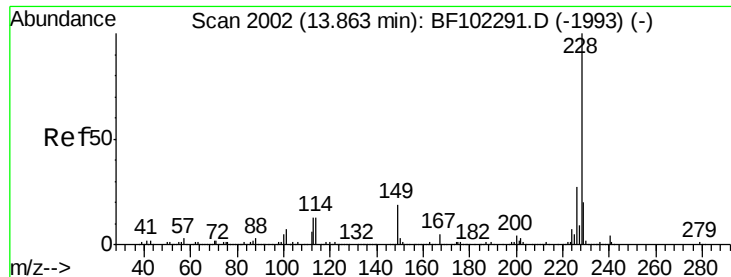


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 22.396 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

ClientSampleId :

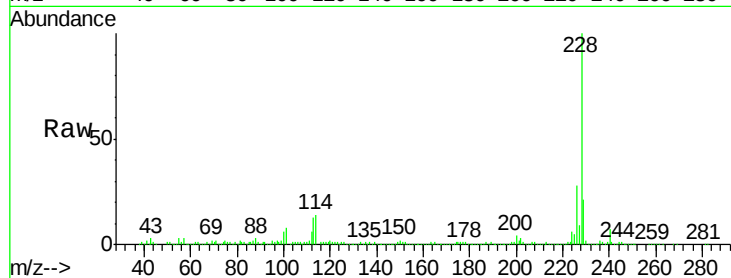
Tot Ion:228 Resp: 341834

Ion Ratio Lower Upper

228 100

226 27.8 22.6 33.8

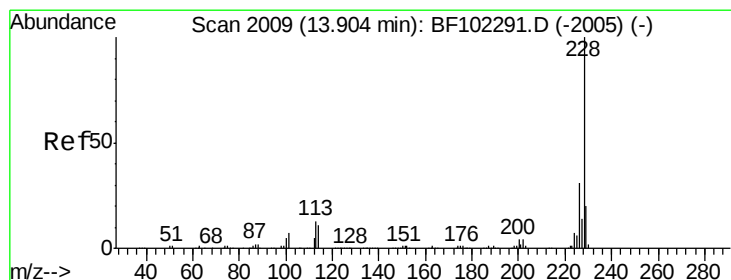
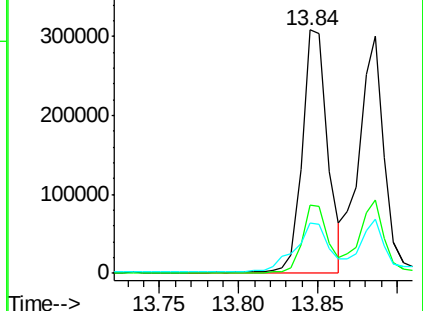
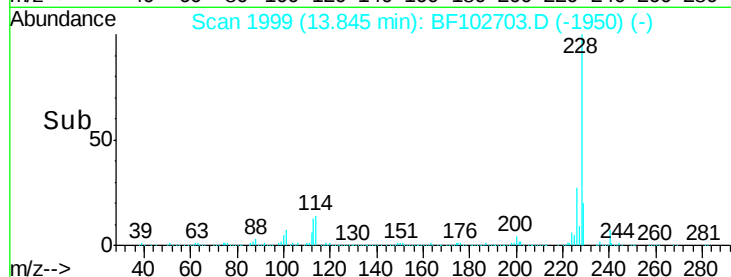
229 20.9 15.8 23.6



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: 21.646 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

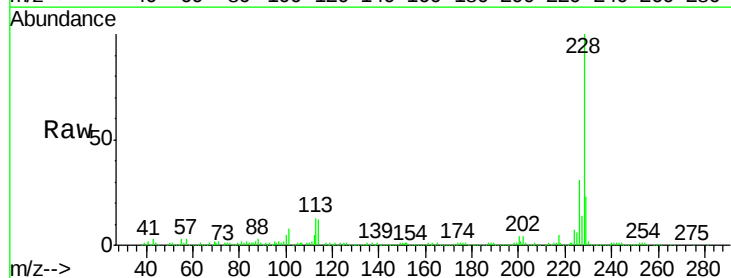
Tgt Ion:228 Resp: 335511

Ion Ratio Lower Upper

228 100

226 30.8 25.0 37.6

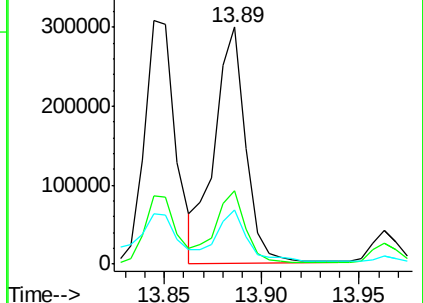
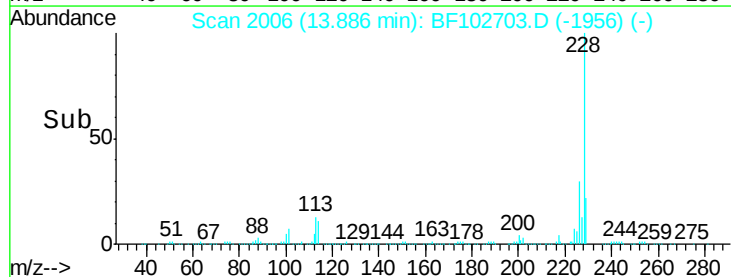
229 22.8 16.2 24.4

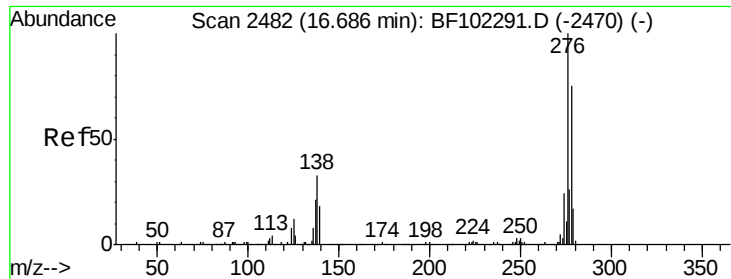


Abundance Ion 228.00 (227.70 to 228.70): E

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: 21.675 ng

RT: 16.69 min Scan# 2482

Delta R.T. 0.00 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

ClientSampleId :

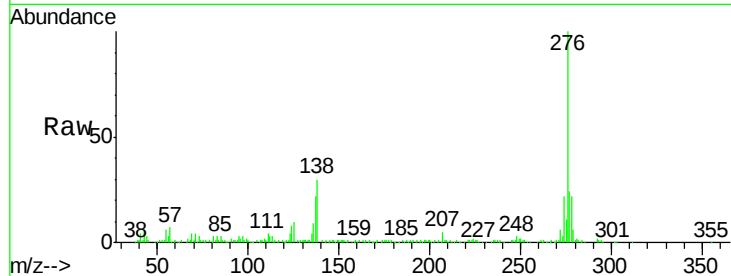
Tot Ion:276 Resp: 277446

Ion Ratio Lower Upper

276 100

138 27.1 25.0 37.6

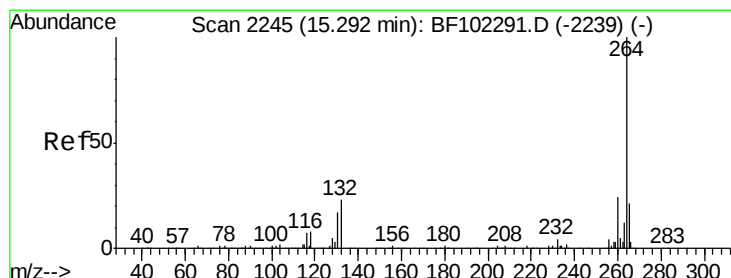
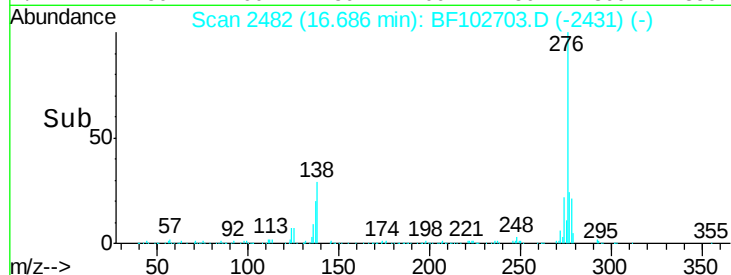
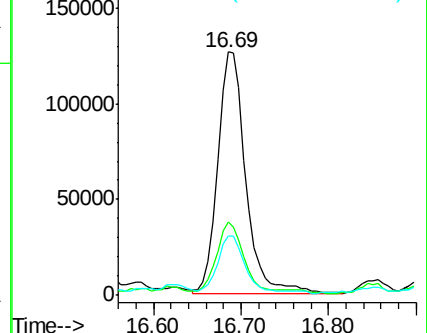
277 20.9 20.1 30.1



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: 20.000 ng

RT: 15.29 min Scan# 2244

Delta R.T. 0.00 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

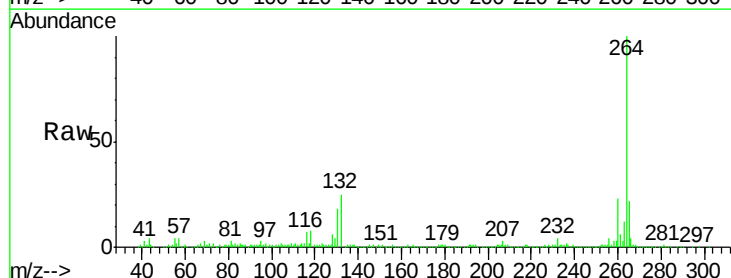
Tgt Ion:264 Resp: 300961

Ion Ratio Lower Upper

264 100

260 23.2 19.2 28.8

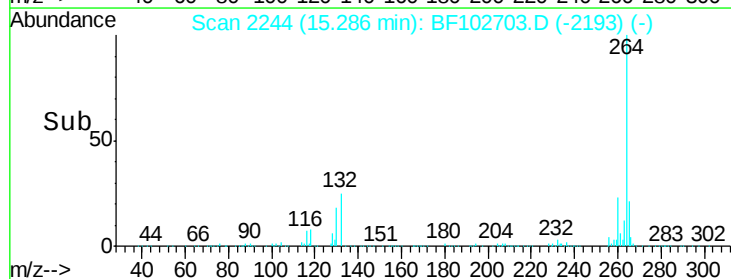
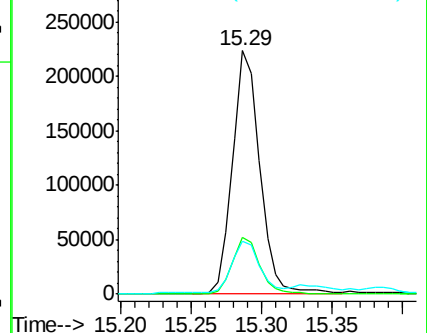
265 21.5 17.5 26.3

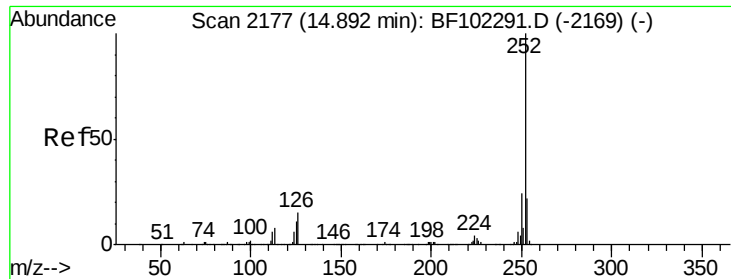


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 31.782 ng

RT: 14.88 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

ClientSampleId :

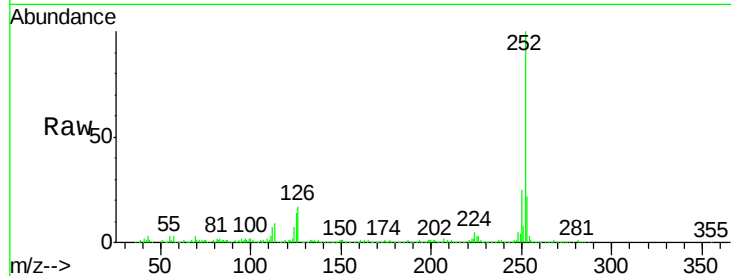
Tot Ion:252 Resp: 619957

Ion Ratio Lower Upper

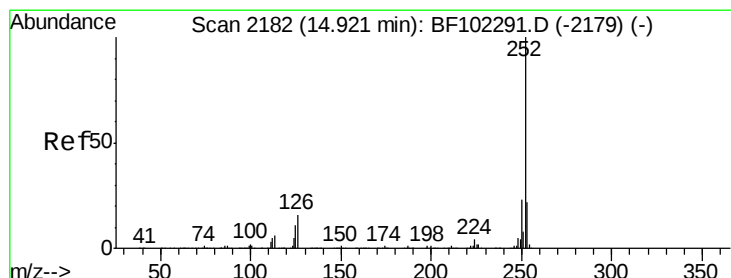
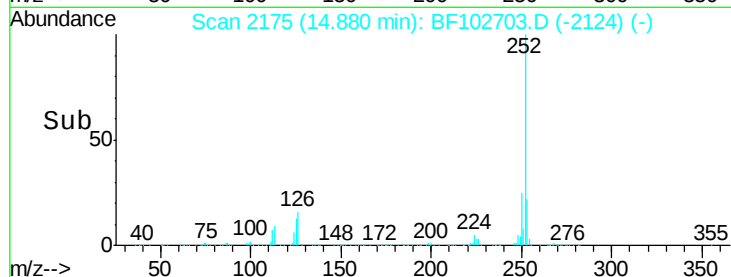
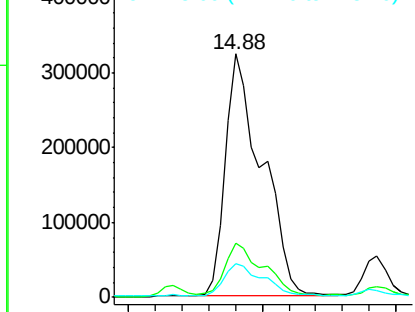
252 100

253 22.2 17.0 25.6

125 14.1 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: 33.639 ng

RT: 14.88 min Scan# 2175

Delta R.T. -0.03 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

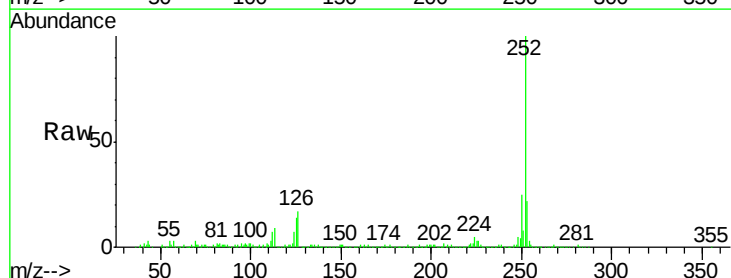
Tgt Ion:252 Resp: 619957

Ion Ratio Lower Upper

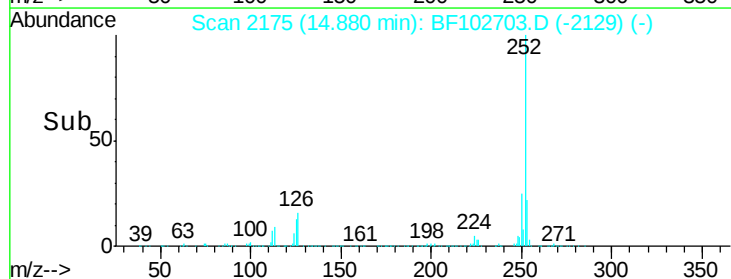
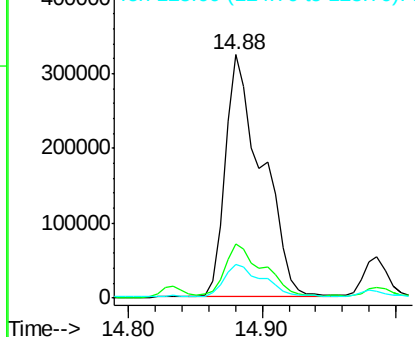
252 100

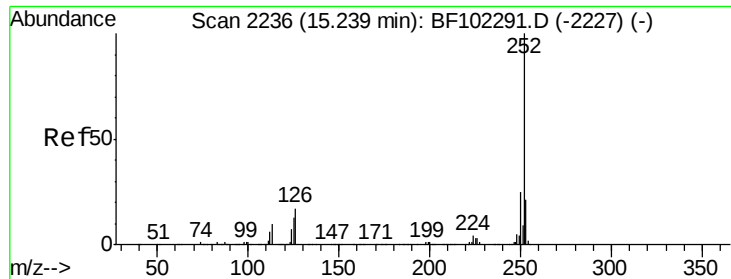
253 22.2 17.9 26.9

125 14.1 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

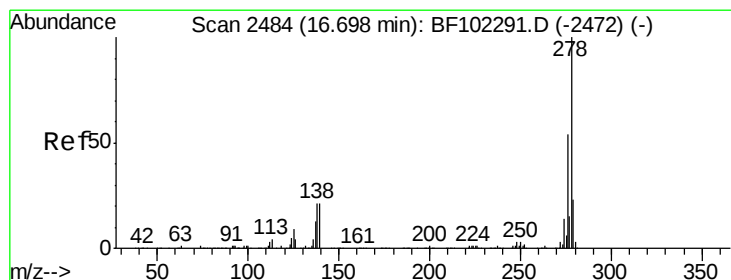
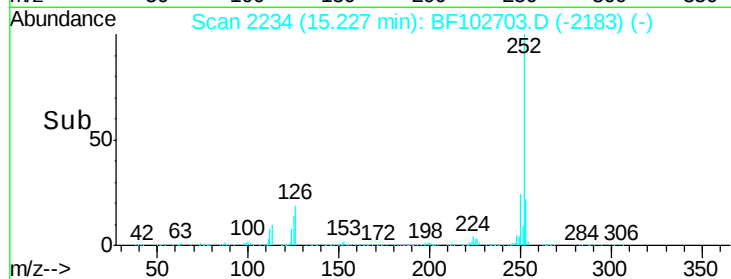
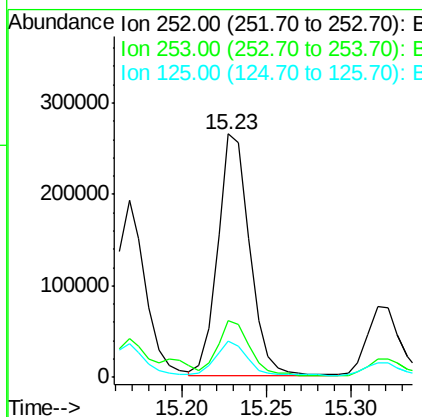
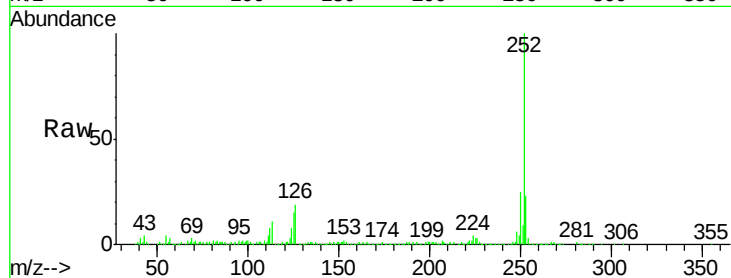




#89
Benzo(a)pyrene
Concen: 19.927 ng
RT: 15.23 min Scan# 2234
Delta R.T. 0.00 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

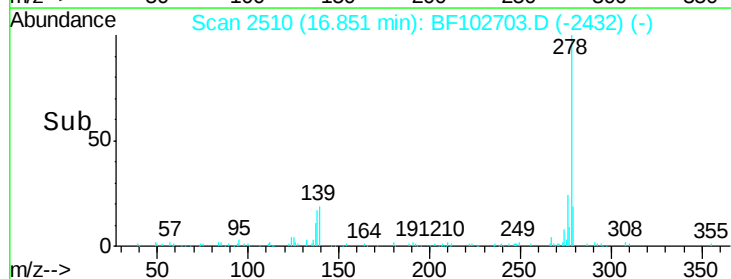
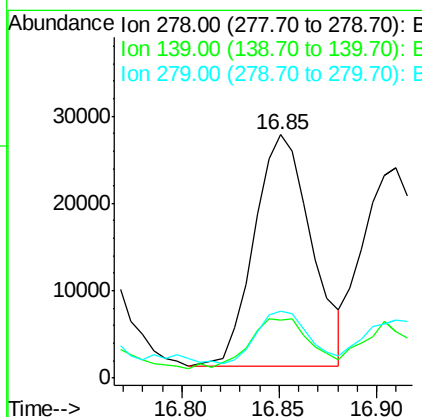
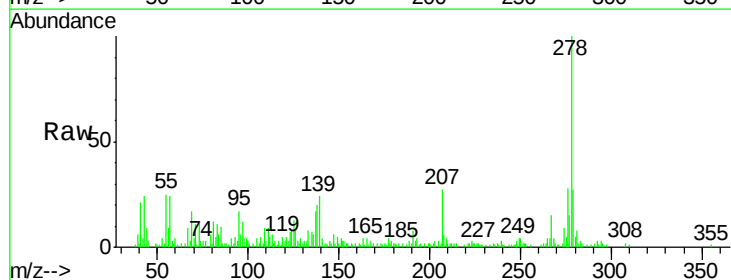
Instrument :
BNA_F
ClientSampleId :

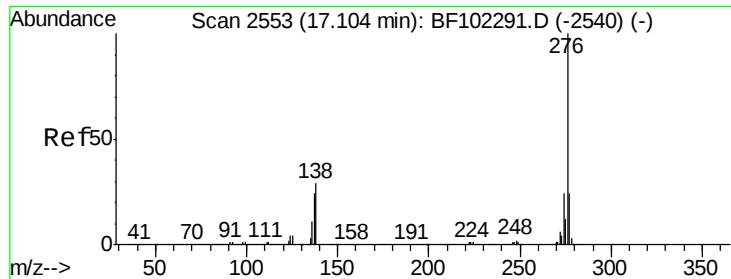
Tot Ion:252 Resp: 350575
Ion Ratio Lower Upper
252 100
253 23.3 17.1 25.7
125 15.0 9.8 14.6#



#90
Dibenzo(a,h)anthracene
Concen: 3.758 ng
RT: 16.85 min Scan# 2510
Delta R.T. 0.16 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion:278 Resp: 53555
Ion Ratio Lower Upper
278 100
139 23.6 15.9 23.9
279 27.4 19.0 28.4





#91

Benzo(a,h,i)perylene

Concen: 19.991 ng

RT: 17.11 min Scan# 2554

Delta R.T. 0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

ClientSampleId :

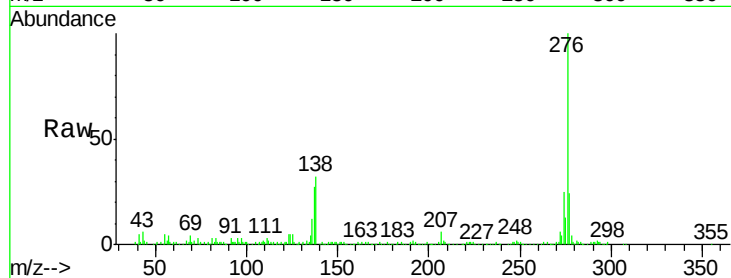
Tot Ion: 276 Resp: 281298

Ion Ratio Lower Upper

276 100

277 24.5 17.9 26.9

138 32.0 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

