

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012318\
 Data File : BF102376.D
 Acq On : 24 Jan 2018 7:57
 Operator : SJ/JU
 Sample : J1214-01DL 4X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 24 10:05:46 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 23 00:43:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	134229	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	557112	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	242958	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	368337	20.00	ng	0.00
75) Chrysene-d12	13.87	240	257315	20.00	ng	0.00
86) Perylene-d12	15.30	264	247325	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	209500	23.67	ng	0.00
7) Phenol-d6	6.35	99	257700	24.15	ng	-0.01
23) Nitrobenzene-d5	7.27	82	146587	15.12	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	42334	17.59	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	191579	11.59	ng	-0.01
78) Terphenyl-d14	12.82	244	124526	10.91	ng	0.00

Target Compounds

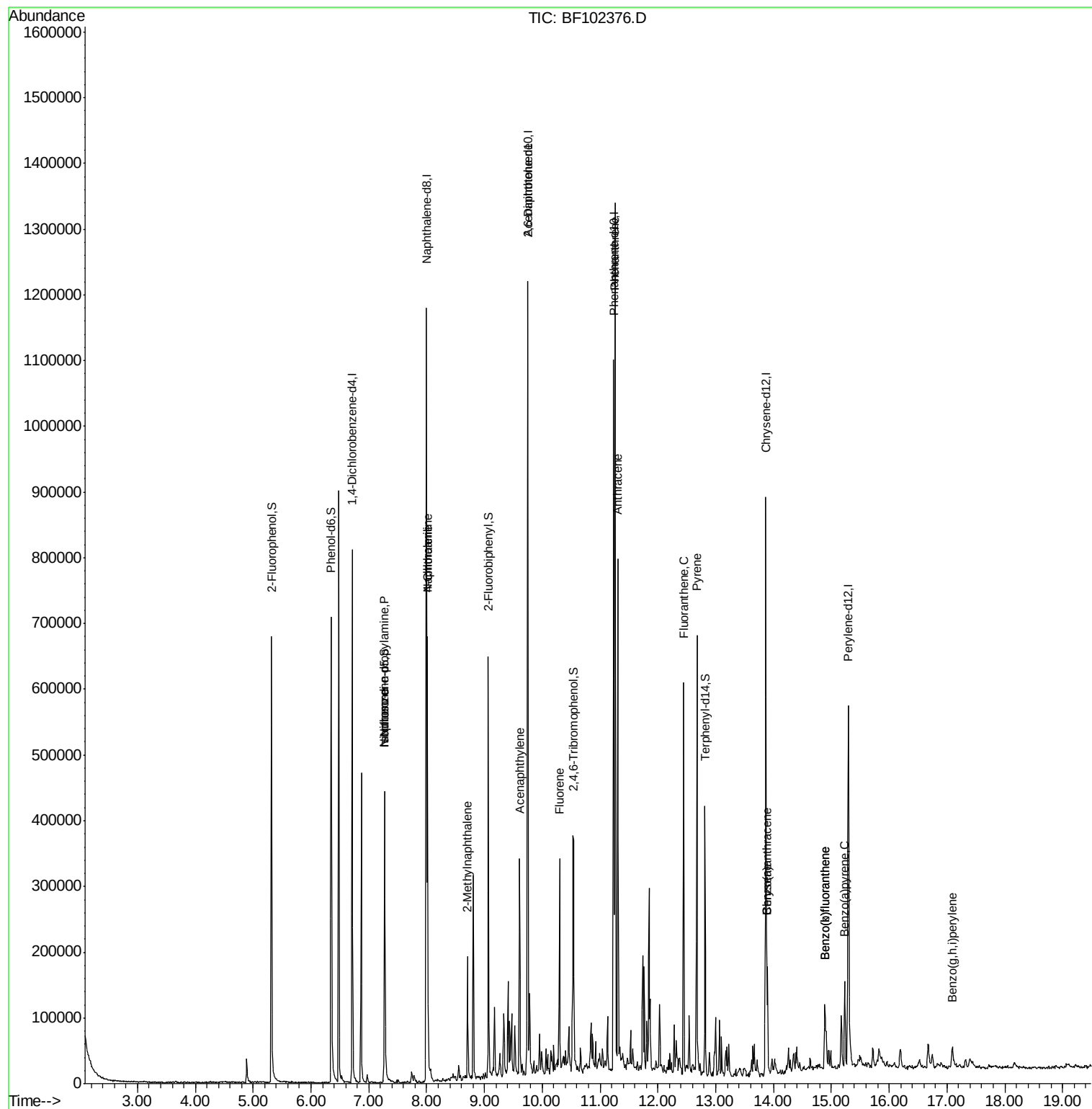
						Qvalue
19) n-Nitroso-di-n-propylamine	7.27	70	18533	2.838	ng	# 77
25) Isophorone	7.27	82	146586	8.482	ng	# 64
31) Naphthalene	8.02	128	282221	10.146	ng	100
33) 4-Chloroaniline	8.02	127	36323	3.105	ng	# 34
37) 2-Methylnaphthalene	8.71	142	53791	2.904	ng	99
48) Acenaphthylene	9.61	152	113027	4.296	ng	99
50) 2,6-Dinitrotoluene	9.75	165	33196	7.667	ng	# 26
57) Fluorene	10.30	166	102730	6.235	ng	97
70) Phenanthrene	11.26	178	448086	20.876	ng	99
71) Anthracene	11.31	178	292530	13.353	ng	98
74) Fluoranthene	12.45	202	218366	9.977	ng	97
77) Pyrene	12.67	202	275748	13.860	ng	98
80) Benzo(a)anthracene	13.90	228	70468	4.448	ng	99
82) Chrysene	13.90	228	70468	4.380	ng	96
87) Benzo(b)fluoranthene	14.89	252	75033	4.681	ng	# 96
88) Benzo(k)fluoranthene	14.89	252	75033	4.954	ng	96
89) Benzo(a)pyrene	15.23	252	59350	4.105	ng	97
91) Benzo(g,h,i)perylene	17.09	276	25579	2.212	ng	92

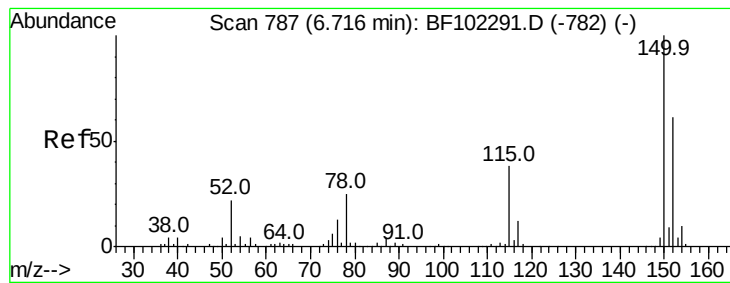
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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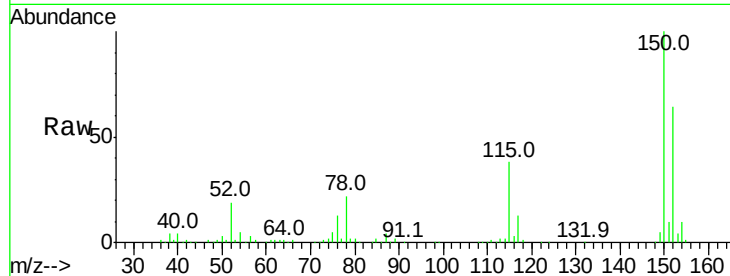


#1

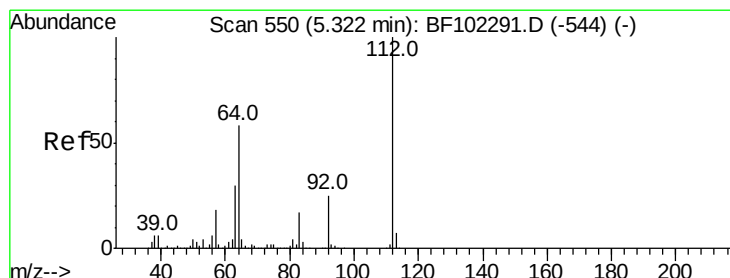
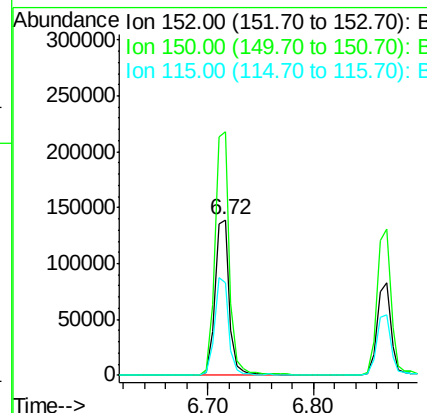
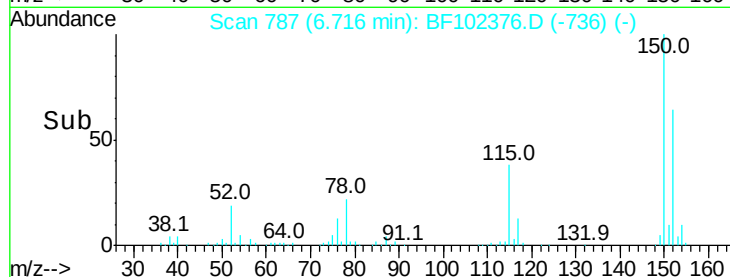
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.00 min
Lab File: BF102376.D
Acq: 24 Jan 2018 7:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 134229
Ion Ratio Lower Upper
152 100
150 156.5 124.6 186.8
115 59.7 50.1 75.1



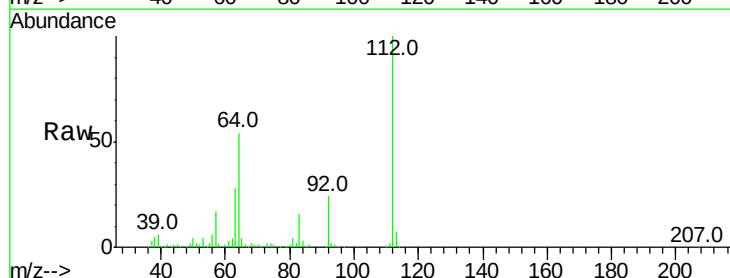
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



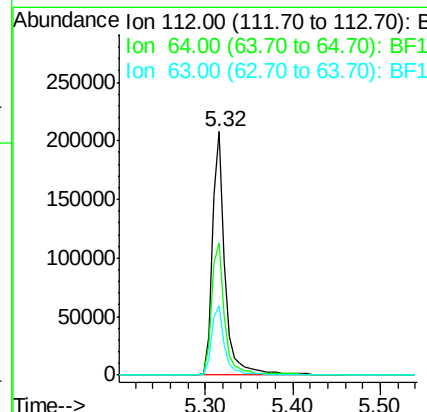
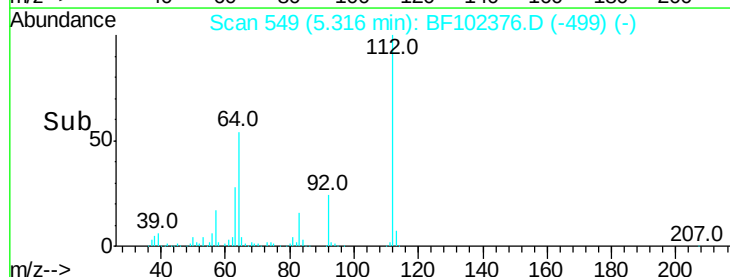
#5

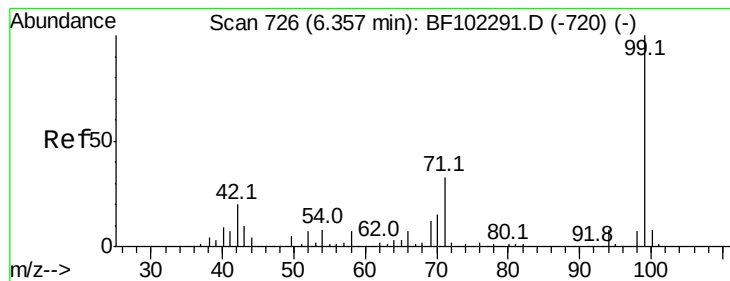
2-Fluorophenol
Concen: 23.665 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102376.D
Acq: 24 Jan 2018 7:57

Tgt Ion:112 Resp: 209500
Ion Ratio Lower Upper
112 100
64 54.3 47.9 71.9
63 28.5 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: 24.146 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

Instrument :

BNA_F

ClientSampleId :

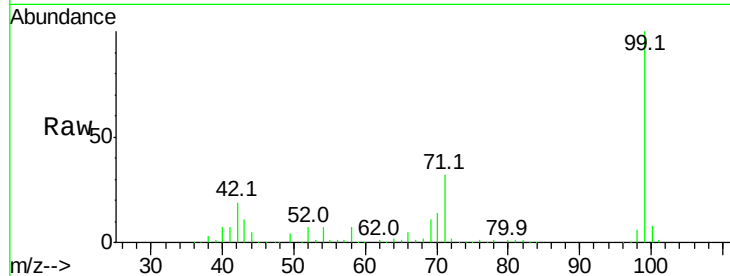
Tot Ion: 99 Resp: 257700

Ion Ratio Lower Upper

99 100

42 19.4 14.5 21.7

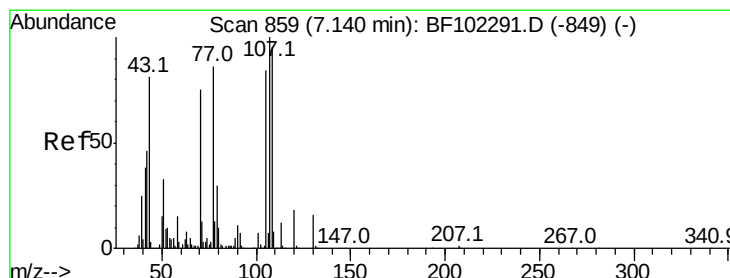
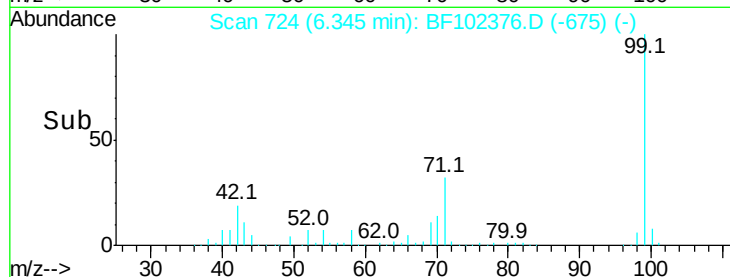
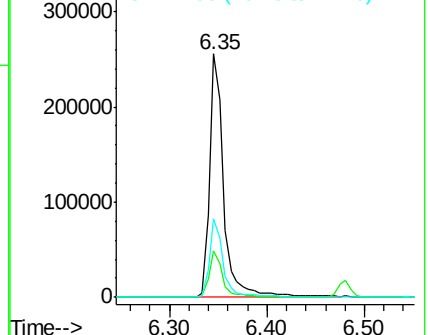
71 32.5 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.838 ng

RT: 7.27 min Scan# 882

Delta R.T. 0.14 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

Tgt Ion: 70 Resp: 18533

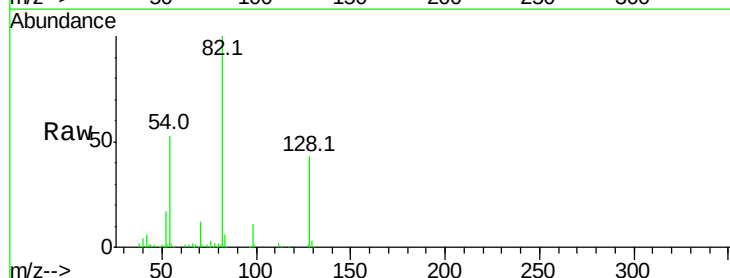
Ion Ratio Lower Upper

70 100

42 46.7 47.5 71.3#

101 0.0 7.4 11.2#

130 2.6 16.6 25.0#

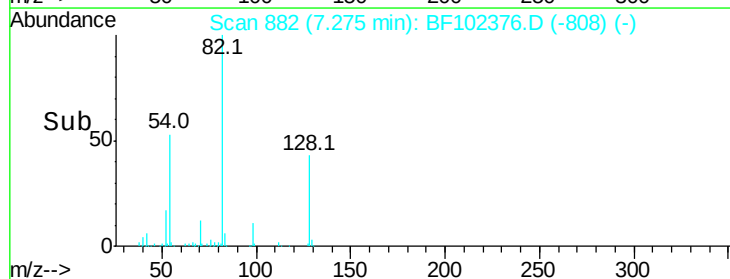
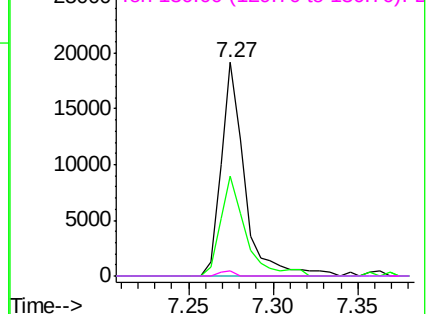


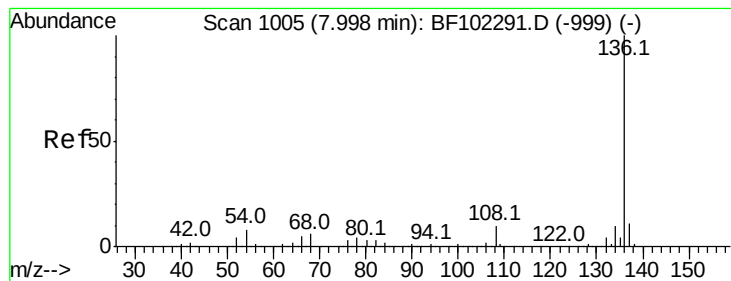
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 557112

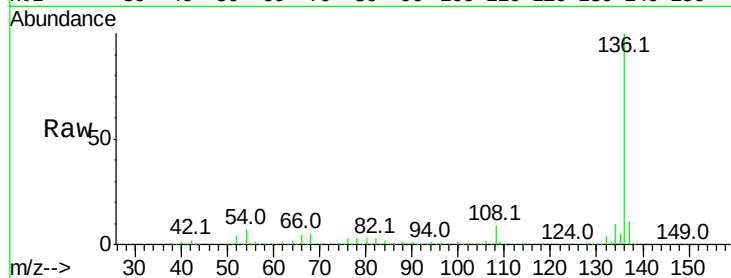
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 7.1 6.6 9.8

68 5.0 5.0 7.4

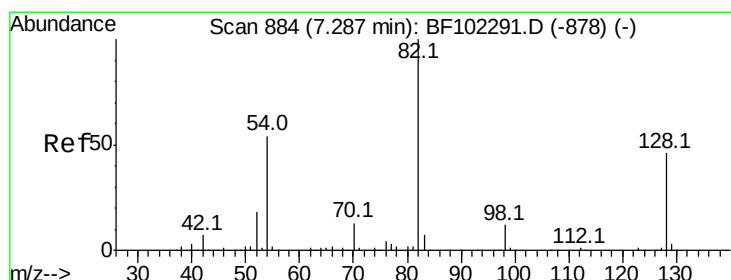
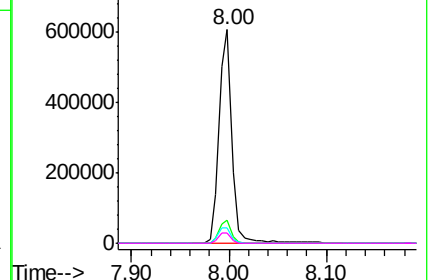
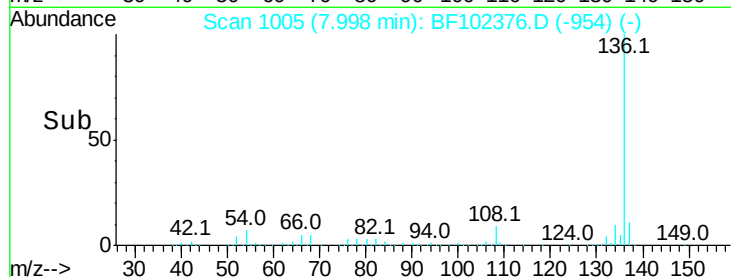


Abundance Ion 136.00 (135.70 to 136.70): E

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: 15.121 ng

RT: 7.27 min Scan# 882

Delta R.T. -0.01 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

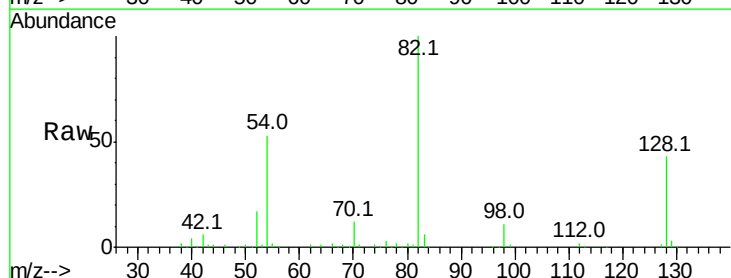
Tgt Ion: 82 Resp: 146587

Ion Ratio Lower Upper

82 100

128 43.4 36.1 54.1

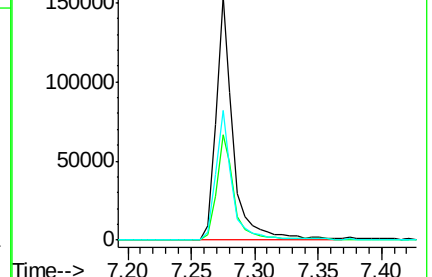
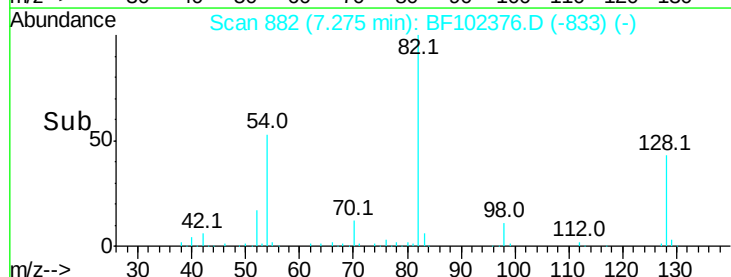
54 53.2 41.4 62.2

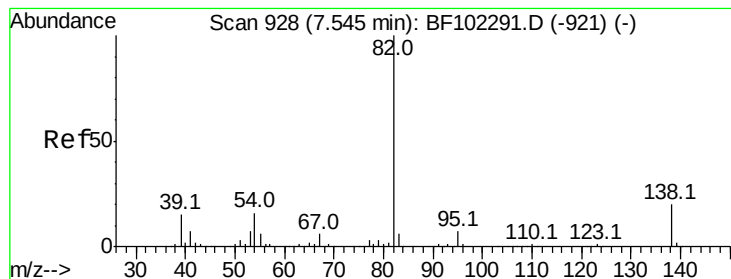


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 8.482 ng

RT: 7.27 min Scan# 882

Delta R.T. -0.27 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

Instrument :

BNA_F

ClientSampleId :

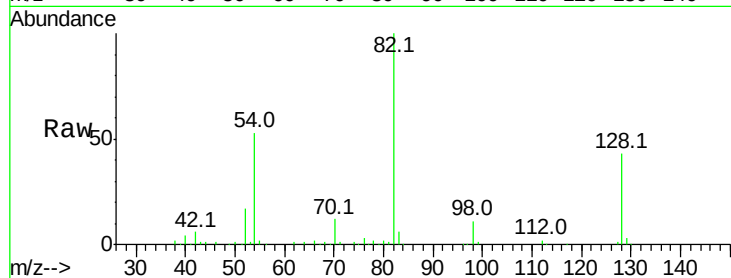
Tot Ion: 82 Resp: 146586

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

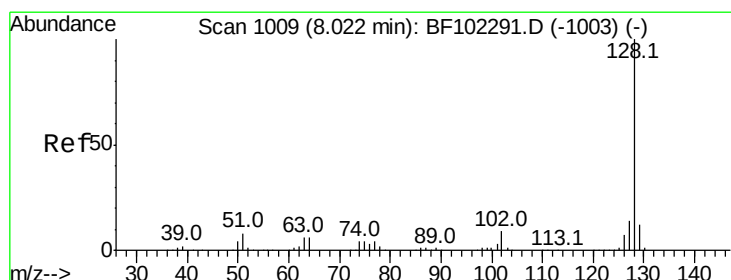
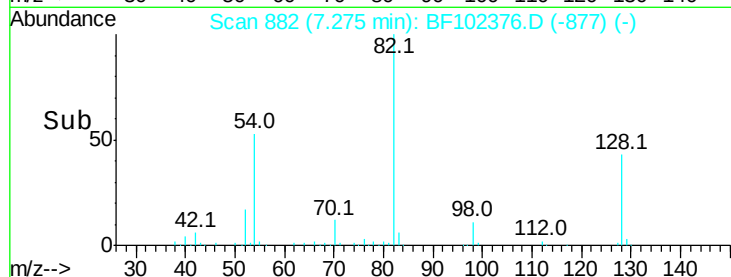
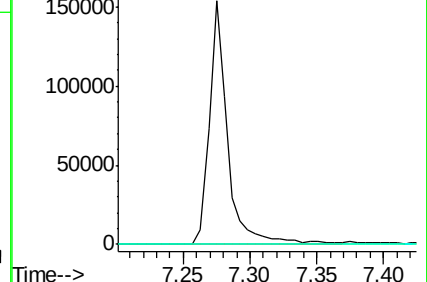
138 0.0 14.9 22.3#



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



#31

Naphthalene

Concen: 10.146 ng

RT: 8.02 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

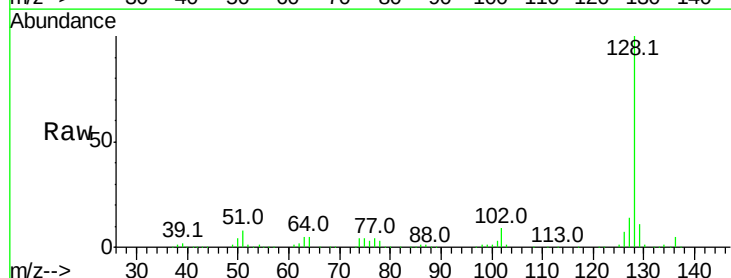
Tgt Ion: 128 Resp: 282221

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

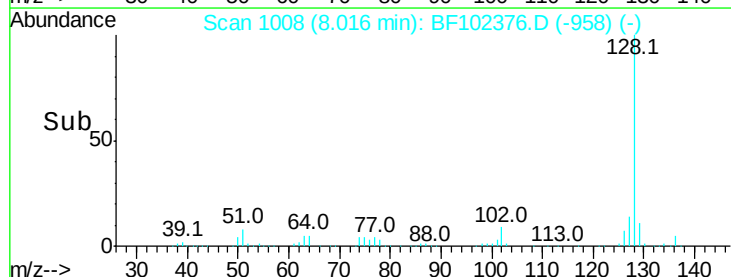
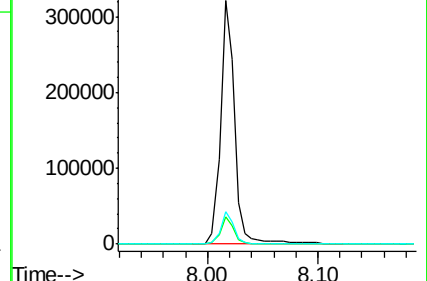
127 13.5 10.9 16.3

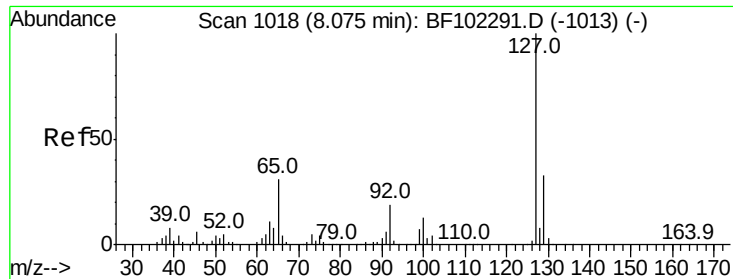


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

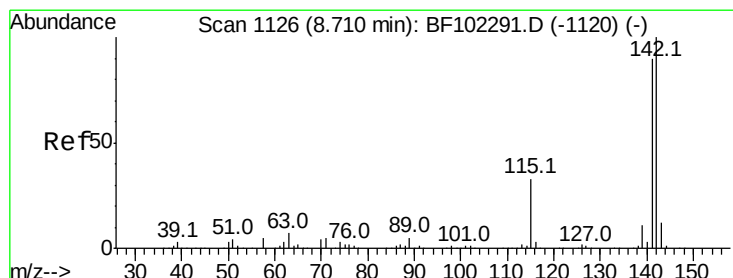
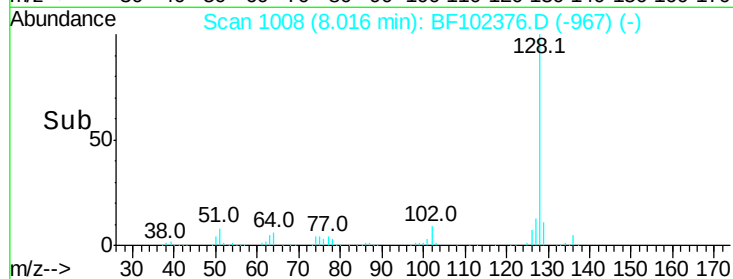
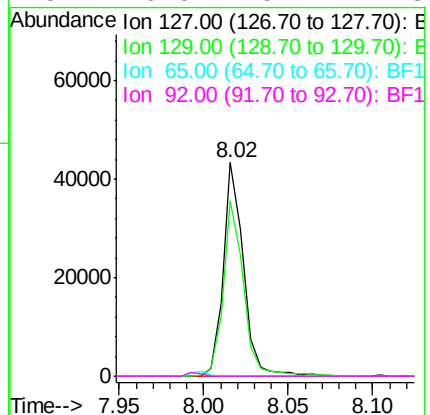
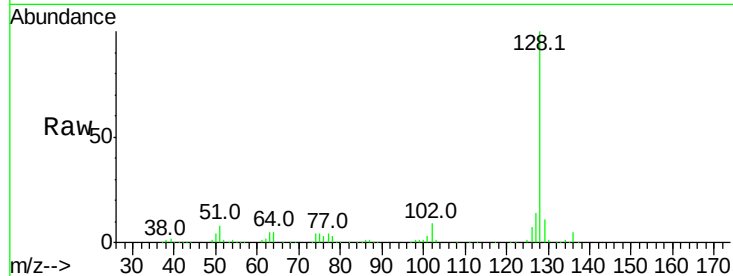




#33
4-Chloroaniline
Concen: 3.105 ng
RT: 8.02 min Scan# 1008
Delta R.T. -0.06 min
Lab File: BF102376.D
Acq: 24 Jan 2018 7:57

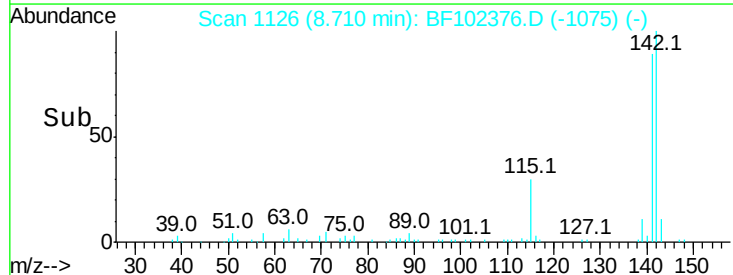
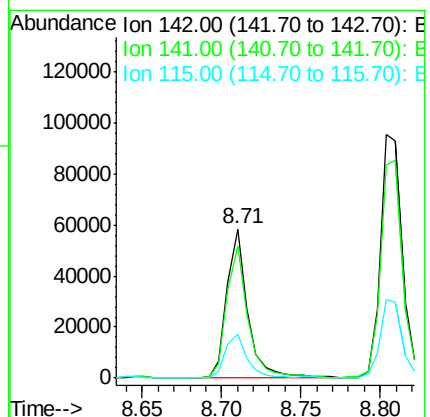
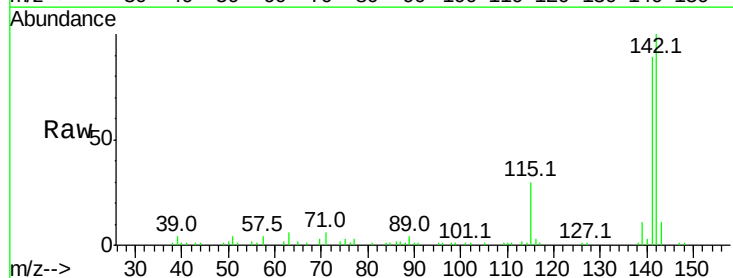
Instrument :
BNA_F
ClientSampleId :

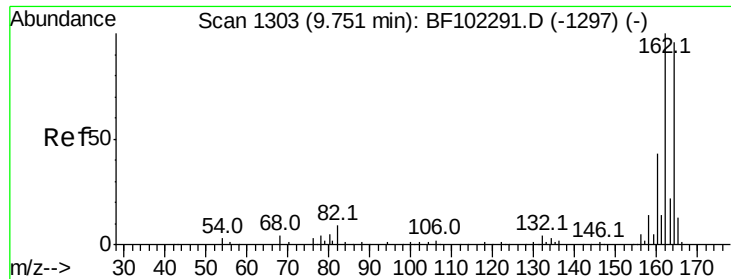
Tot Ion:127 Resp: 36323
Ion Ratio Lower Upper
127 100
129 81.9 25.9 38.9#
65 0.0 25.0 37.4#
92 0.0 15.2 22.8#



#37
2-Methylnaphthalene
Concen: 2.904 ng
RT: 8.71 min Scan# 1126
Delta R.T. -0.00 min
Lab File: BF102376.D
Acq: 24 Jan 2018 7:57

Tgt Ion:142 Resp: 53791
Ion Ratio Lower Upper
142 100
141 88.6 70.8 106.2
115 29.7 26.1 39.1

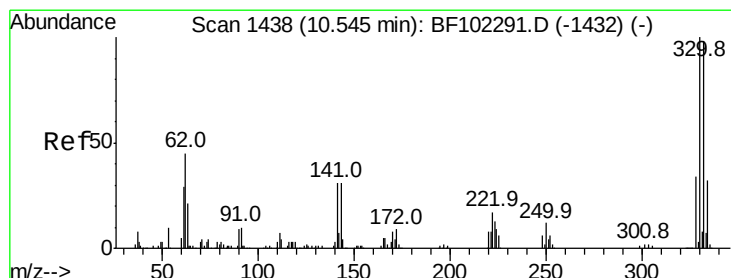
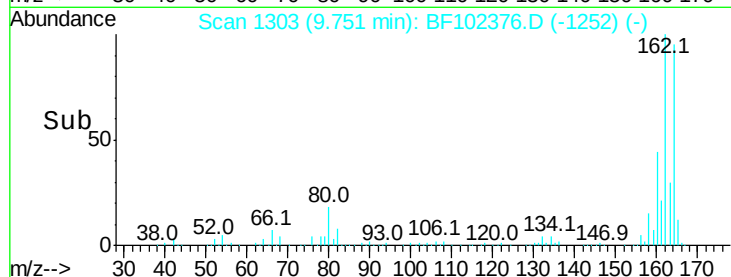
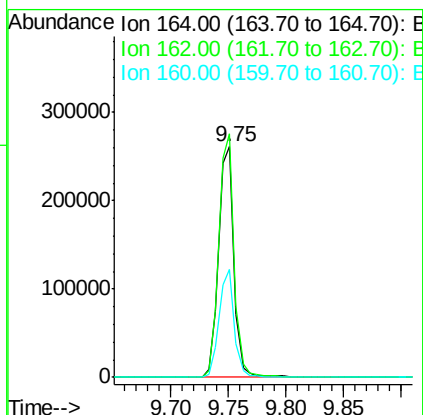
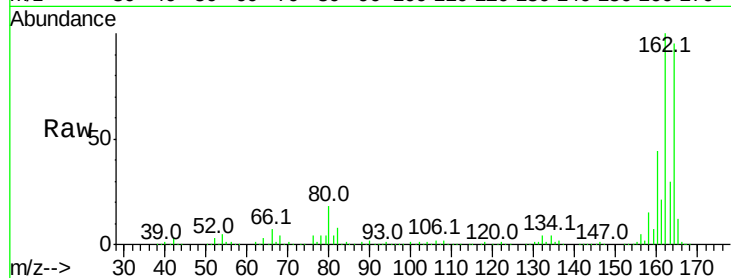




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.75 min Scan# 1303
 Delta R.T. -0.00 min
 Lab File: BF102376.D
 Acq: 24 Jan 2018 7:57

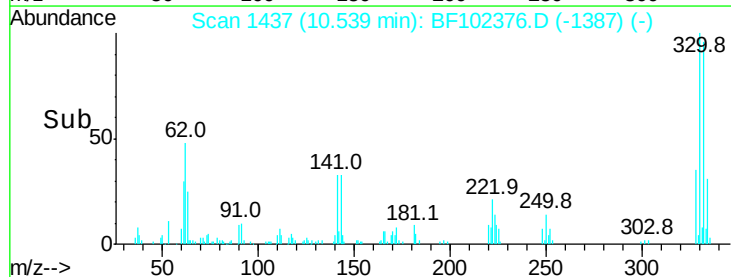
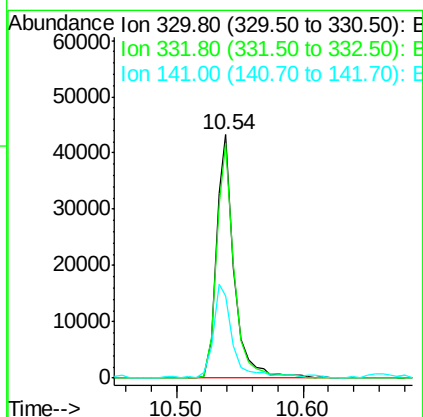
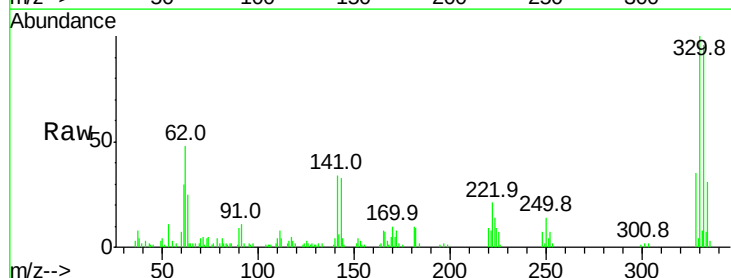
Instrument :
 BNA_F
 ClientSampleId :

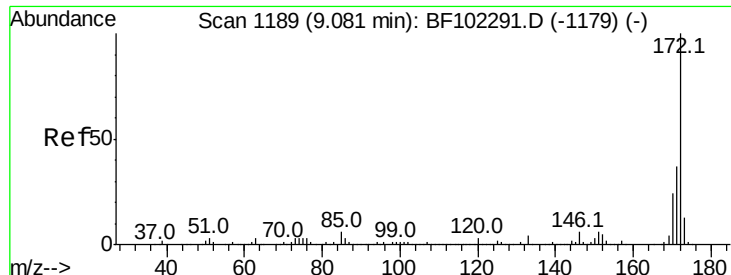
Tot Ion:164 Resp: 242958
 Ion Ratio Lower Upper
 164 100
 162 105.6 86.1 129.1
 160 46.8 38.3 57.5



#41
 2,4,6-Tribromophenol
 Concen: 17.585 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF102376.D
 Acq: 24 Jan 2018 7:57

Tgt Ion:330 Resp: 42334
 Ion Ratio Lower Upper
 330 100
 332 96.6 77.0 115.6
 141 44.4 29.9 44.9

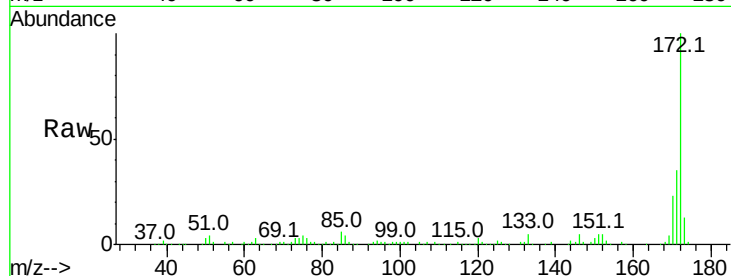




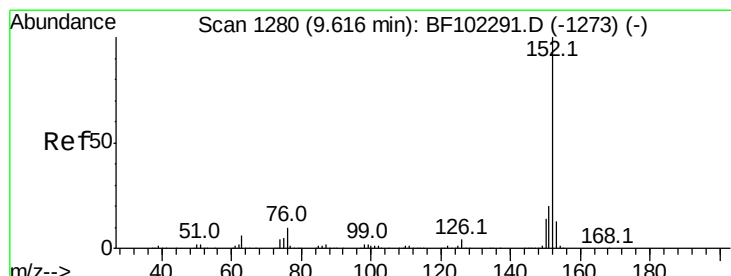
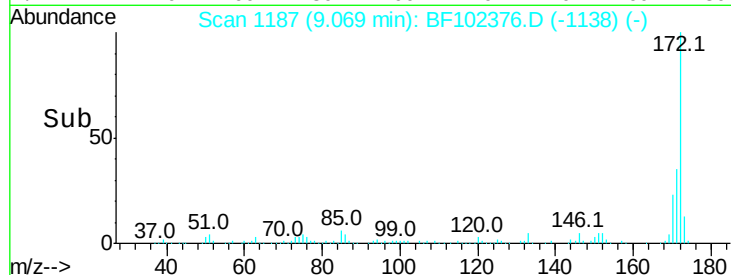
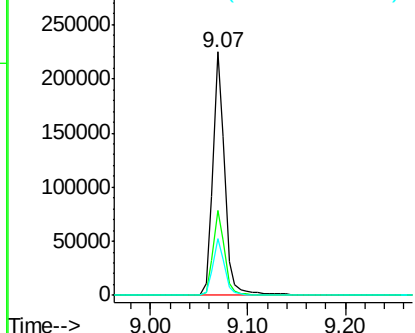
#44
2-Fluorobiphenyl
Concen: 11.594 ng
RT: 9.07 min Scan# 1187
Delta R.T. -0.01 min
Lab File: BF102376.D
Acq: 24 Jan 2018 7:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 191579
Ion Ratio Lower Upper
172 100
171 34.9 29.7 44.5
170 23.2 19.6 29.4

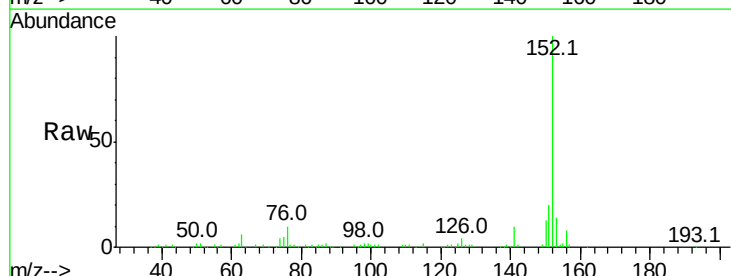


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

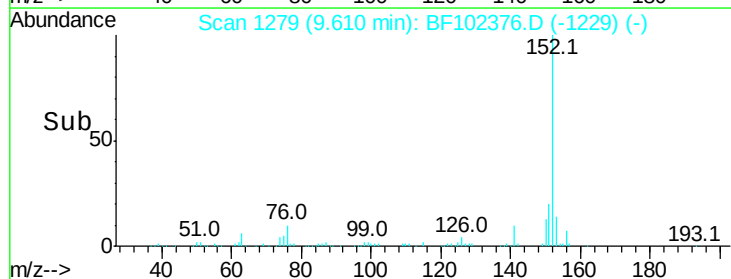
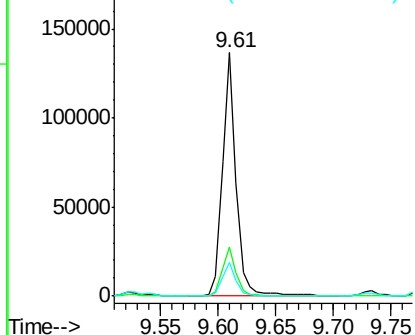


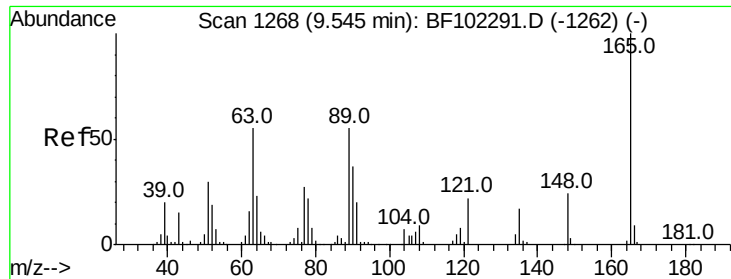
#48
Acenaphthylene
Concen: 4.296 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF102376.D
Acq: 24 Jan 2018 7:57

Tgt Ion:152 Resp: 113027
Ion Ratio Lower Upper
152 100
151 20.0 16.3 24.5
153 14.0 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

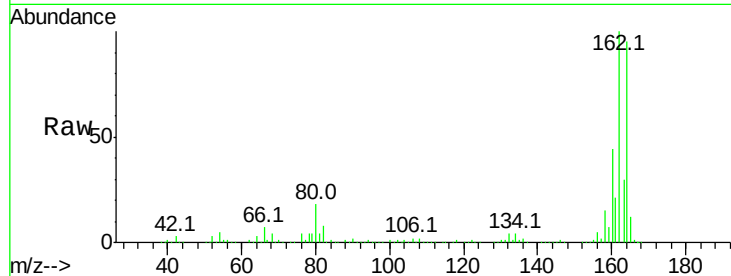




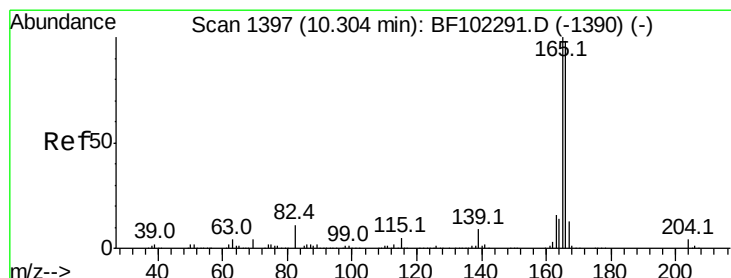
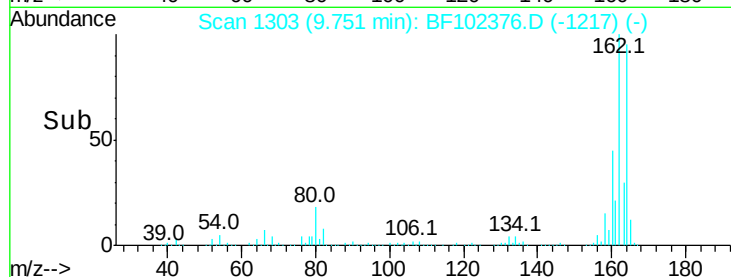
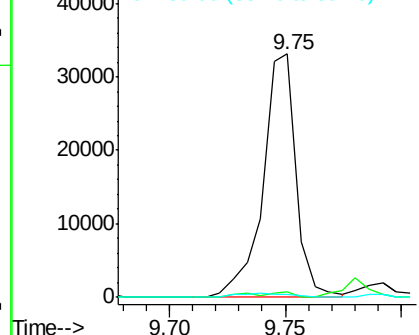
#50
2,6-Dinitrotoluene
Concen: 7.667 ng
RT: 9.75 min Scan# 1303
Delta R.T. 0.21 min
Lab File: BF102376.D
Acq: 24 Jan 2018 7:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	2.3	44.7	67.1#
89	1.4	44.0	66.0#

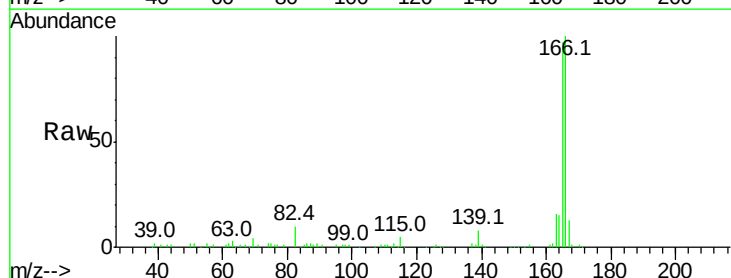


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

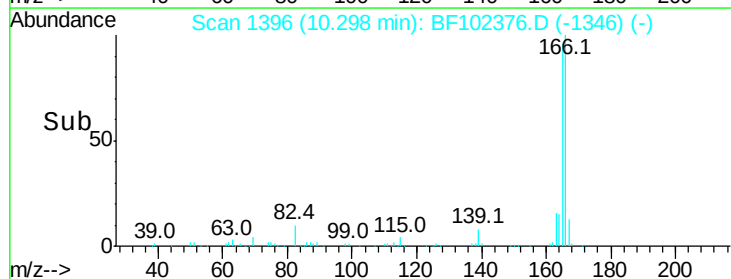
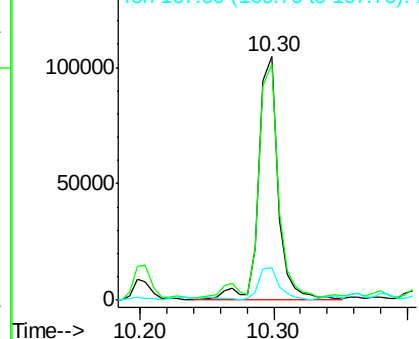


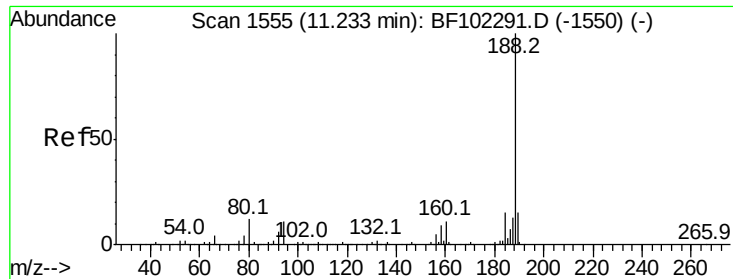
#57
Fluorene
Concen: 6.235 ng
RT: 10.30 min Scan# 1396
Delta R.T. -0.01 min
Lab File: BF102376.D
Acq: 24 Jan 2018 7:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.8	79.8	119.8
167	13.3	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

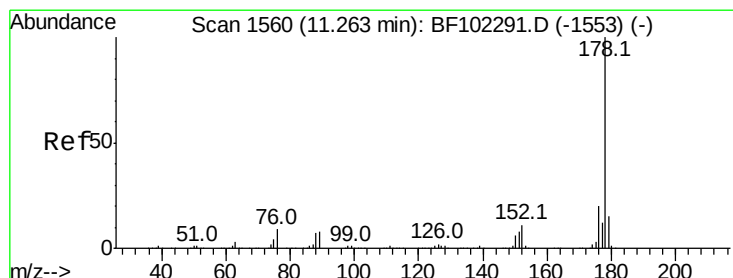
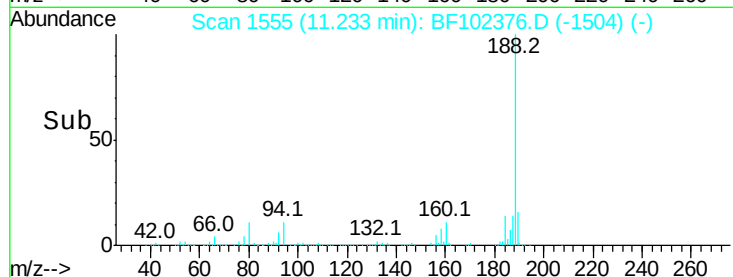
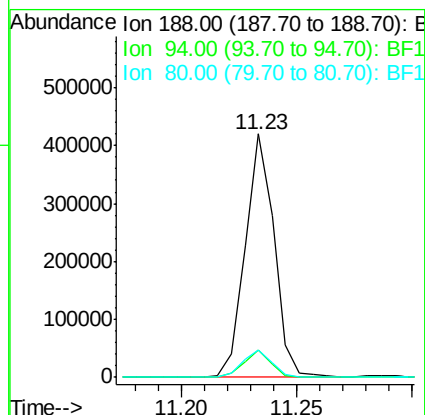
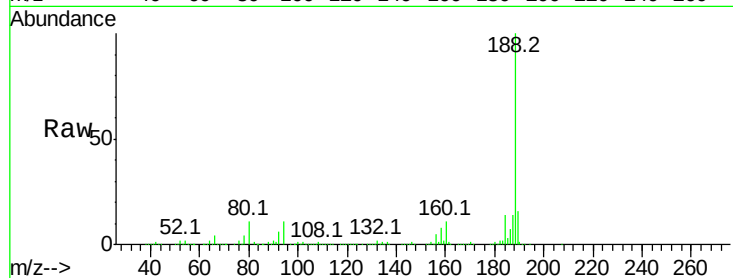




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.00 min
Lab File: BF102376.D
Acq: 24 Jan 2018 7:57

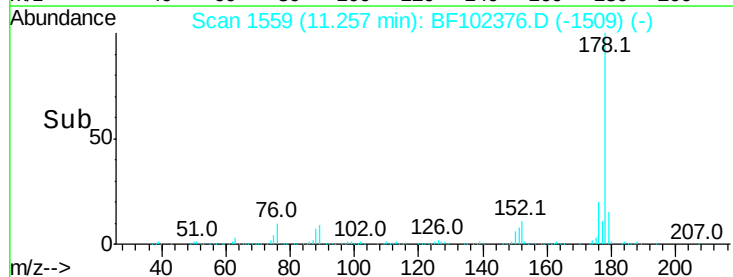
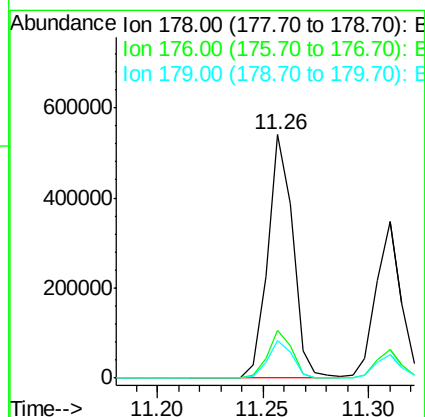
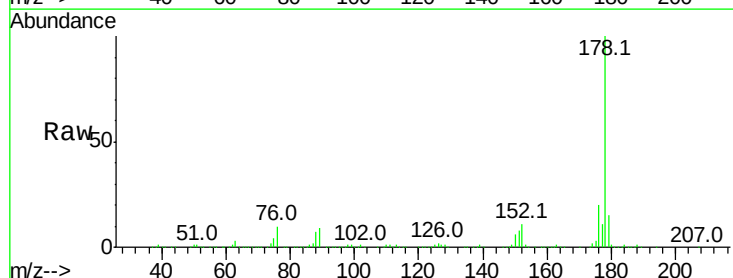
Instrument :
BNA_F
ClientSampled :

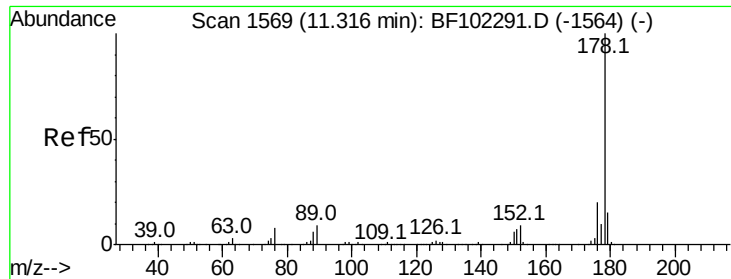
Tot Ion:188 Resp: 368337
Ion Ratio Lower Upper
188 100
94 11.2 8.5 12.7
80 11.0 9.2 13.8



#70
Phenanthrene
Concen: 20.876 ng
RT: 11.26 min Scan# 1559
Delta R.T. -0.01 min
Lab File: BF102376.D
Acq: 24 Jan 2018 7:57

Tgt Ion:178 Resp: 448086
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.5 13.0 19.6

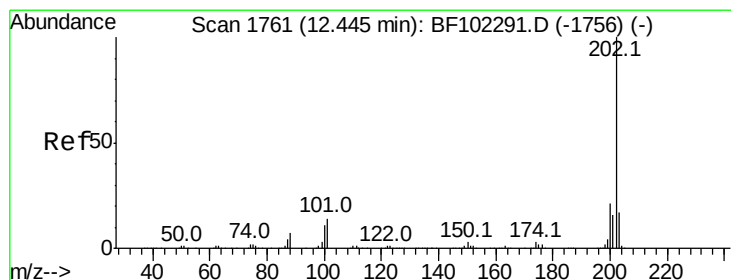
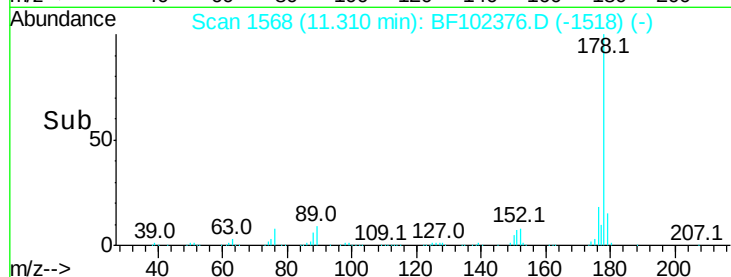
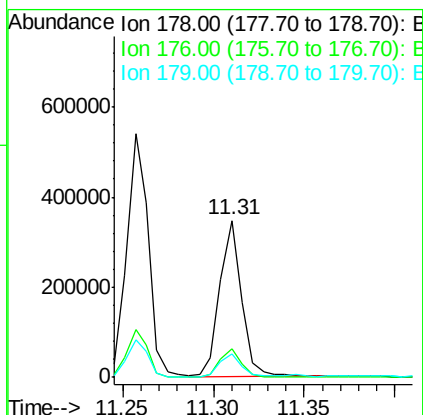
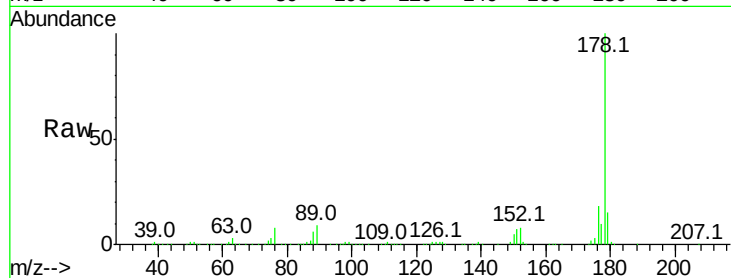




#71
 Anthracene
 Concen: 13.353 ng
 RT: 11.31 min Scan# 1568
 Delta R.T. -0.01 min
 Lab File: BF102376.D
 Acq: 24 Jan 2018 7:57

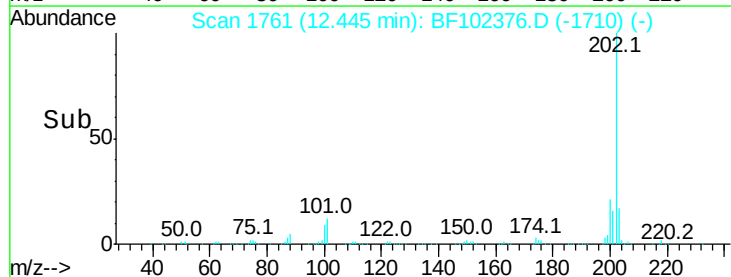
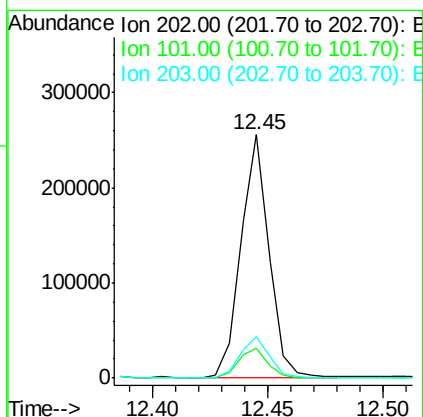
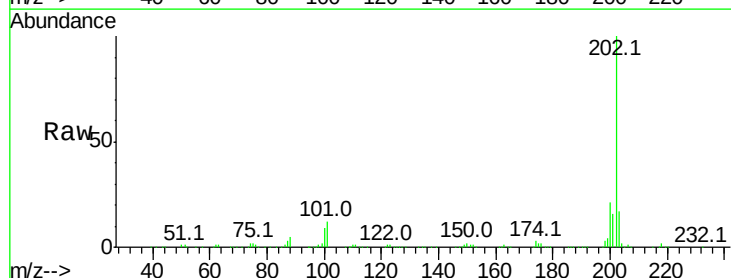
Instrument :
 BNA_F
 ClientSampleId :

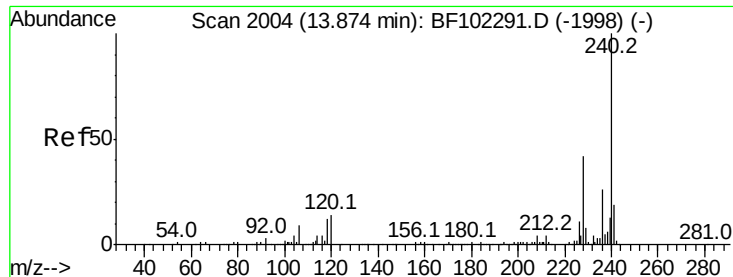
Tot Ion:178 Resp: 292530
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.4 23.2
 179 15.1 12.6 19.0



#74
 Fluoranthene
 Concen: 9.977 ng
 RT: 12.45 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: BF102376.D
 Acq: 24 Jan 2018 7:57

Tgt Ion:202 Resp: 218366
 Ion Ratio Lower Upper
 202 100
 101 12.1 0.0 34.1
 203 17.1 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

Instrument :

BNA_F

ClientSampleId :

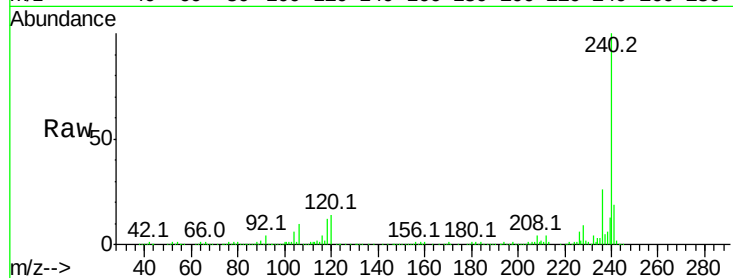
Tot Ion:240 Resp: 257315

Ion Ratio Lower Upper

240 100

120 14.2 9.5 14.3

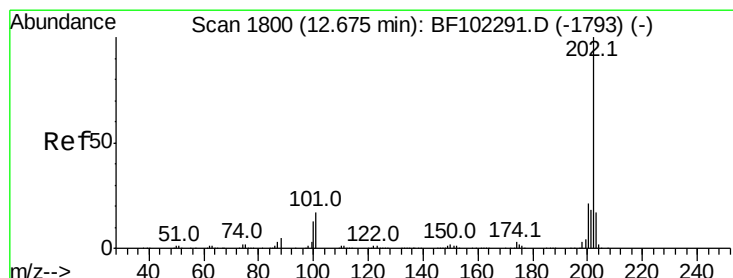
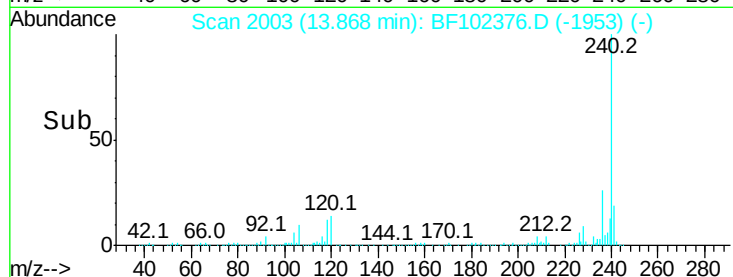
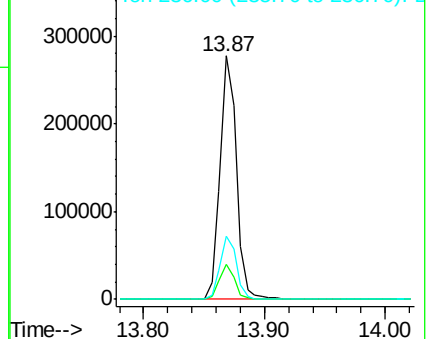
236 25.8 20.7 31.1



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

Pyrene

Concen: 13.860 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.00 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

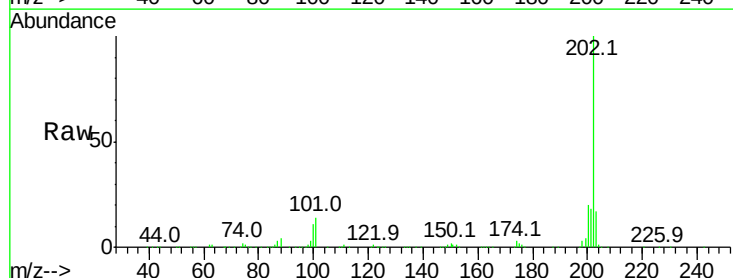
Tgt Ion:202 Resp: 275748

Ion Ratio Lower Upper

202 100

200 20.1 17.4 26.2

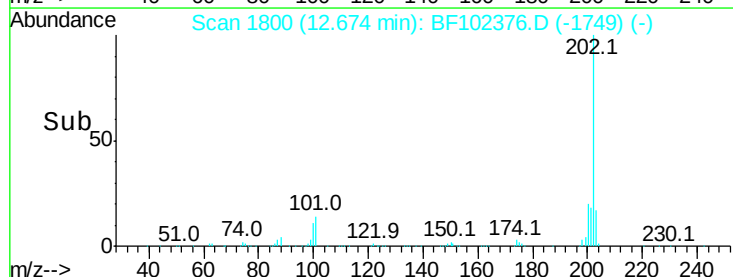
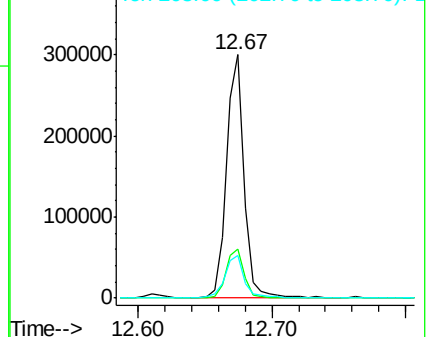
203 17.4 14.3 21.5

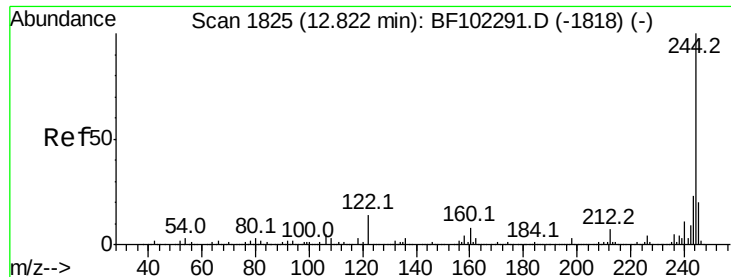


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

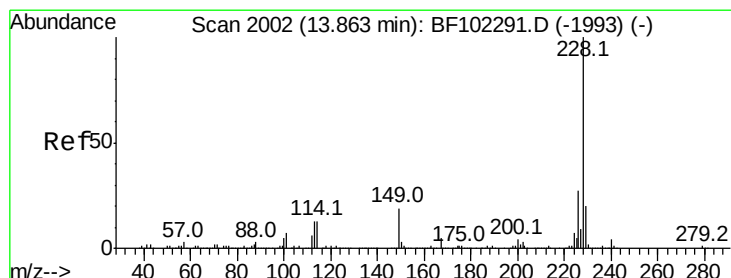
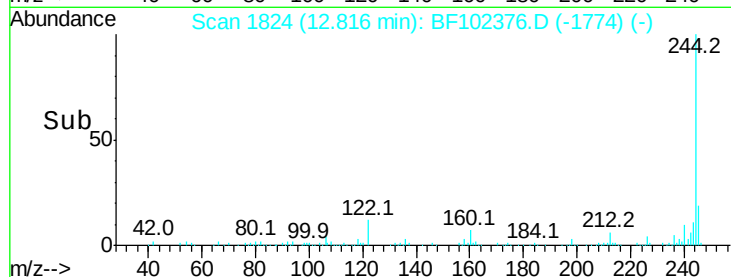
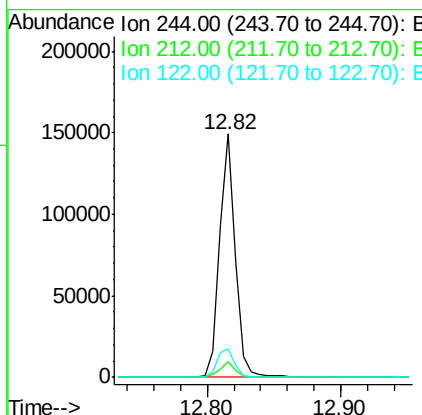
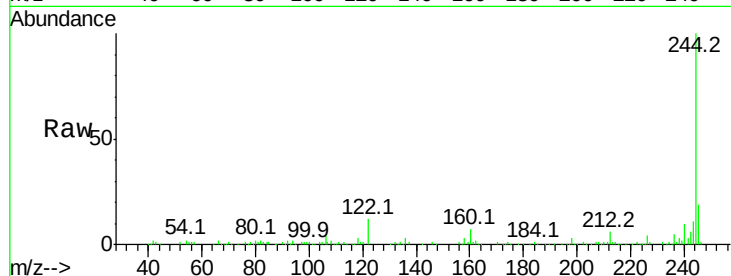




#78
 Terphenyl-d14
 Concen: 10.910 ng
 RT: 12.82 min Scan# 1824
 Delta R.T. -0.01 min
 Lab File: BF102376.D
 Acq: 24 Jan 2018 7:57

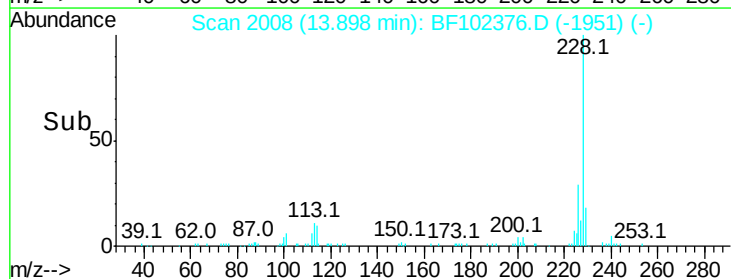
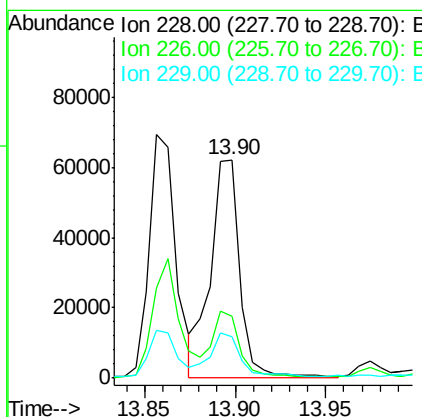
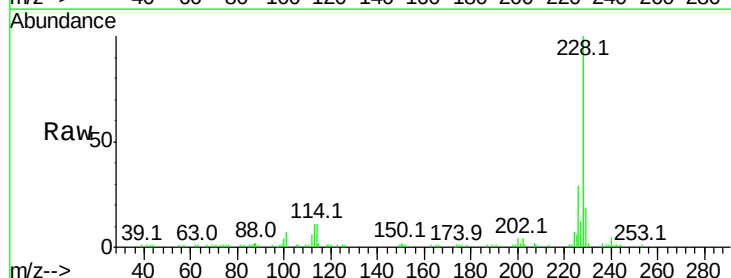
Instrument :
 BNA_F
 ClientSampleId :

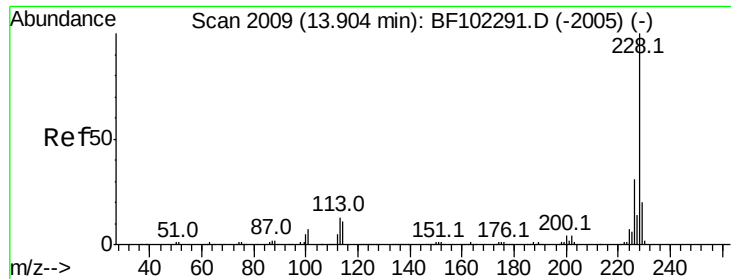
Tot Ion:244 Resp: 124526
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.4 8.0
 122 11.6 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 4.448 ng
 RT: 13.90 min Scan# 2008
 Delta R.T. 0.04 min
 Lab File: BF102376.D
 Acq: 24 Jan 2018 7:57

Tgt Ion:228 Resp: 70468
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.6 33.8
 229 18.9 15.8 23.6





#82

Chrysene

Concen: 4.380 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

Instrument :

BNA_F

ClientSampleId :

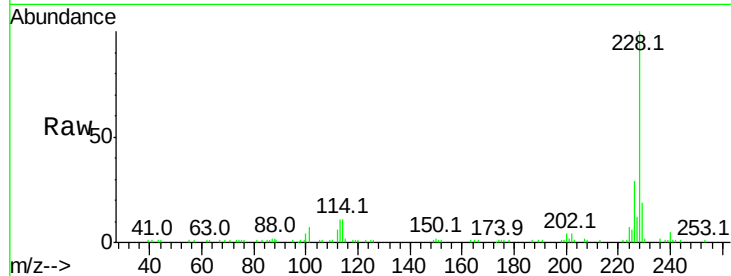
Tot Ion:228 Resp: 70468

Ion	Ratio	Lower	Upper
228	100		
226	28.5	25.0	37.6
229	18.9	16.2	24.4

228 100

226 28.5 25.0 37.6

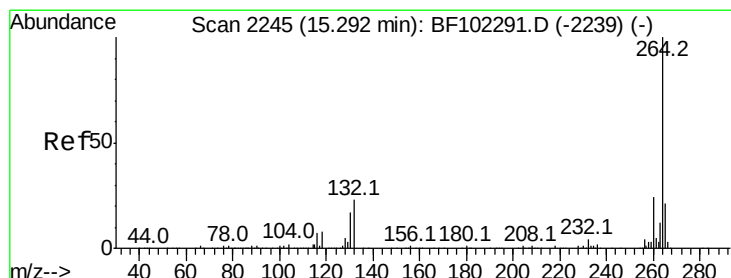
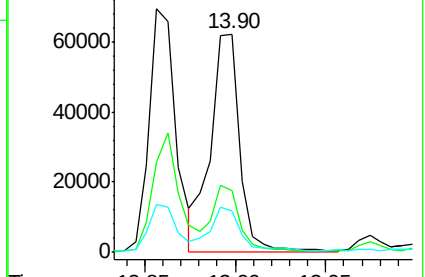
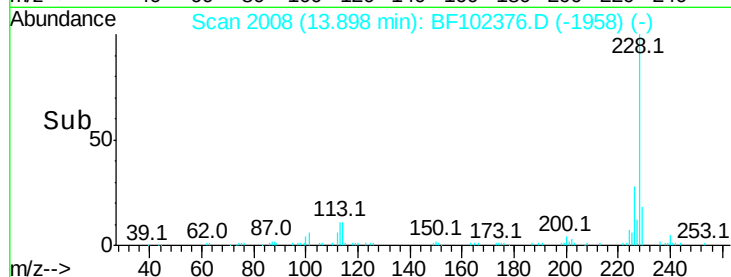
229 18.9 16.2 24.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.30 min Scan# 2246

Delta R.T. 0.01 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

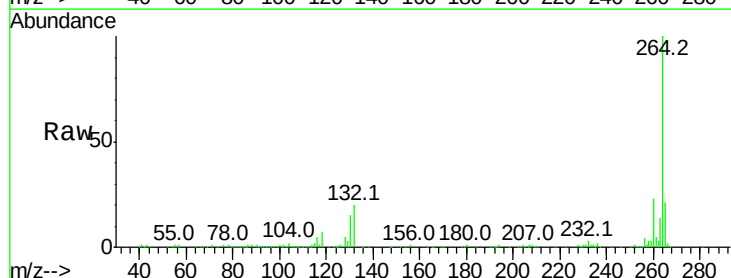
Tgt Ion:264 Resp: 247325

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.2	28.8
265	20.7	17.5	26.3

264 100

260 23.1 19.2 28.8

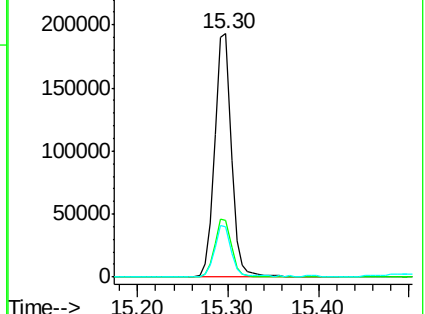
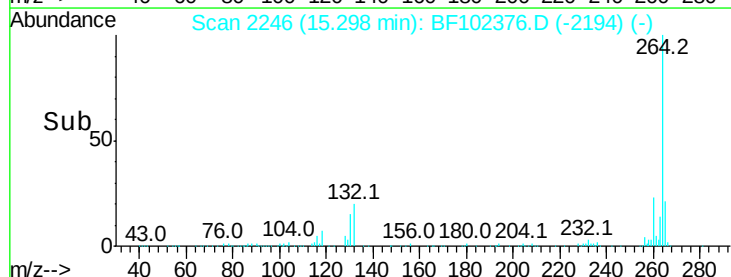
265 20.7 17.5 26.3

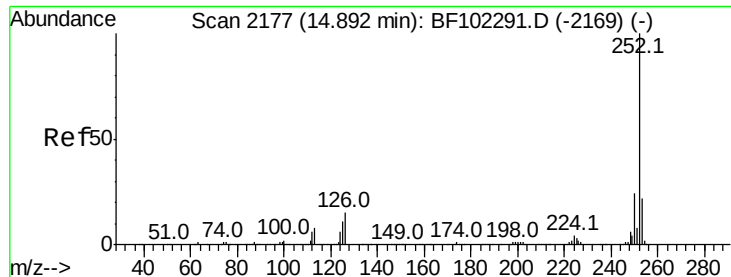


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 4.681 ng

RT: 14.89 min Scan# 2176

Delta R.T. -0.01 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

Instrument :

BNA_F

ClientSampleId :

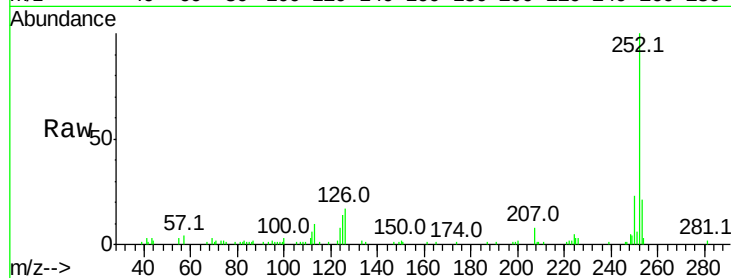
Tot Ion:252 Resp: 75033

Ion Ratio Lower Upper

252 100

253 20.6 17.0 25.6

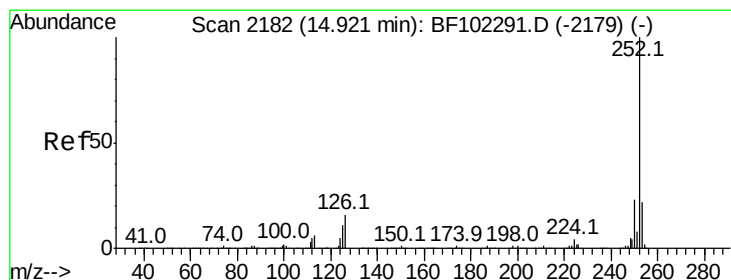
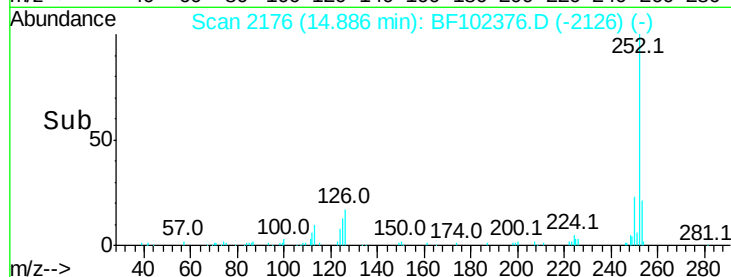
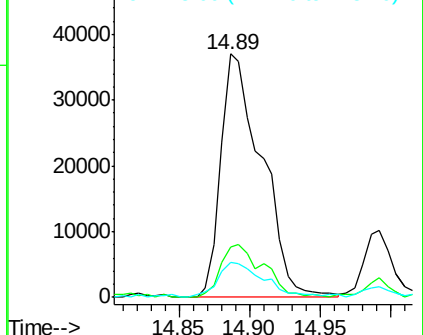
125 14.3 9.0 13.6#



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: 4.954 ng

RT: 14.89 min Scan# 2176

Delta R.T. -0.04 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

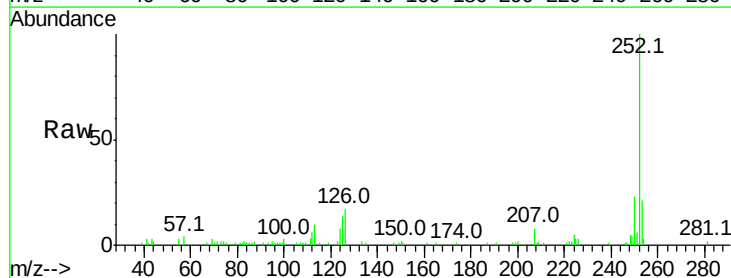
Tgt Ion:252 Resp: 75033

Ion Ratio Lower Upper

252 100

253 20.6 17.9 26.9

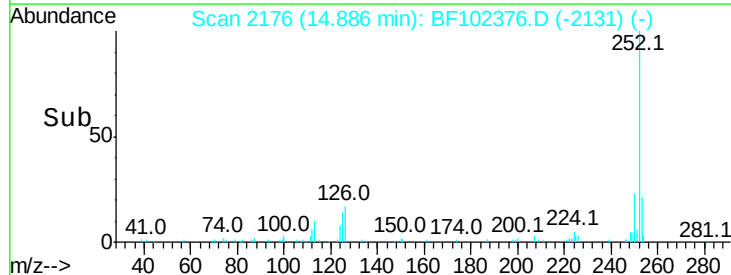
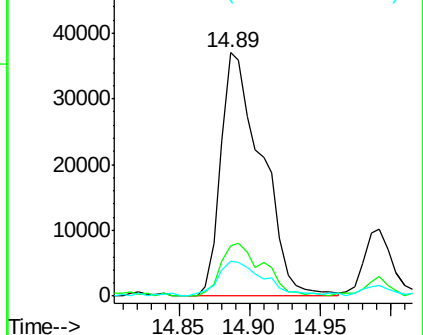
125 14.3 10.2 15.2

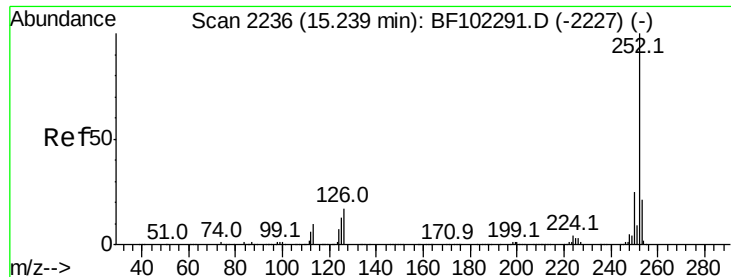


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 4.105 ng

RT: 15.23 min Scan# 2235

Delta R.T. -0.01 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

Instrument :

BNA_F

ClientSampleId :

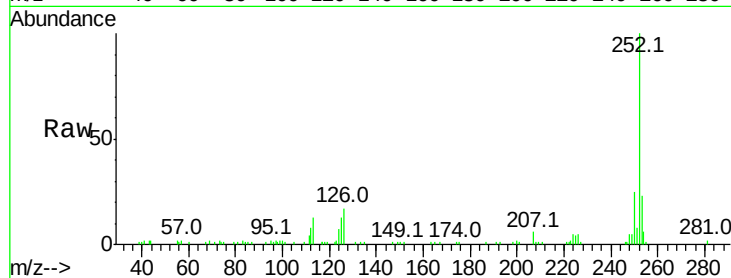
Tot Ion:252 Resp: 59350

Ion Ratio Lower Upper

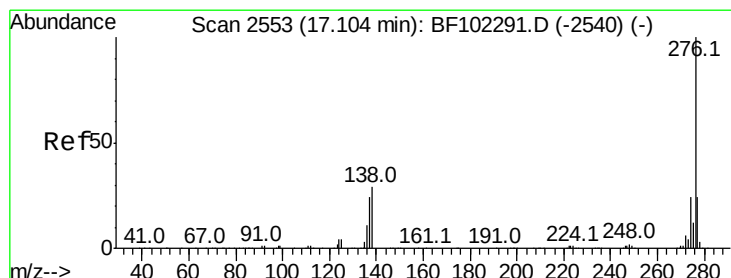
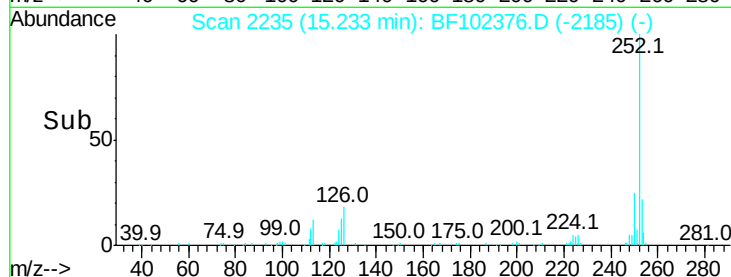
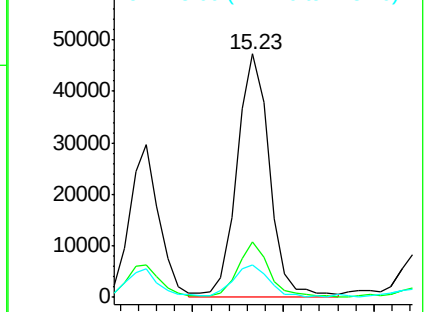
252 100

253 22.7 17.1 25.7

125 13.4 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: 2.212 ng

RT: 17.09 min Scan# 2551

Delta R.T. -0.01 min

Lab File: BF102376.D

Acq: 24 Jan 2018 7:57

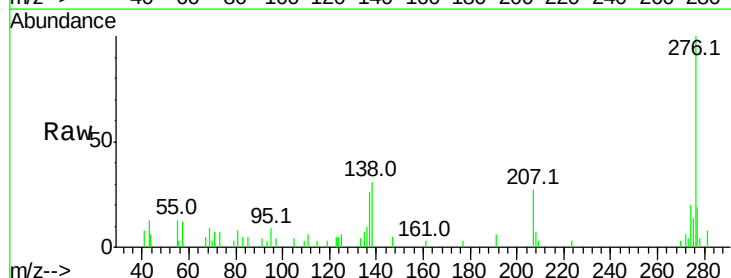
Tgt Ion:276 Resp: 25579

Ion Ratio Lower Upper

276 100

277 18.8 17.9 26.9

138 31.2 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

