

Data Path : U:\HPCHEM1\BNA F\DATA\BF011218\
 Data File : BF102050.D
 Acq On : 12 Jan 2018 18:35
 Operator : SJ/JU
 Sample : J1015-05 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 12 21:55:07 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 11 12:53:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	215043	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	830362	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	324098	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	468924	20.00	ng	0.00
75) Chrysene-d12	13.88	240	363329	20.00	ng	0.00
86) Perylene-d12	15.30	264	305339	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	329330	21.63	ng	0.00
7) Phenol-d6	6.35	99	374590	20.62	ng	-0.01
23) Nitrobenzene-d5	7.29	82	221534	15.68	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	56859	20.10	ng	0.00
44) 2-Fluorobiphenyl	9.09	172	399309	19.25	ng	0.00
78) Terphenyl-d14	12.83	244	261893	14.97	ng	0.00

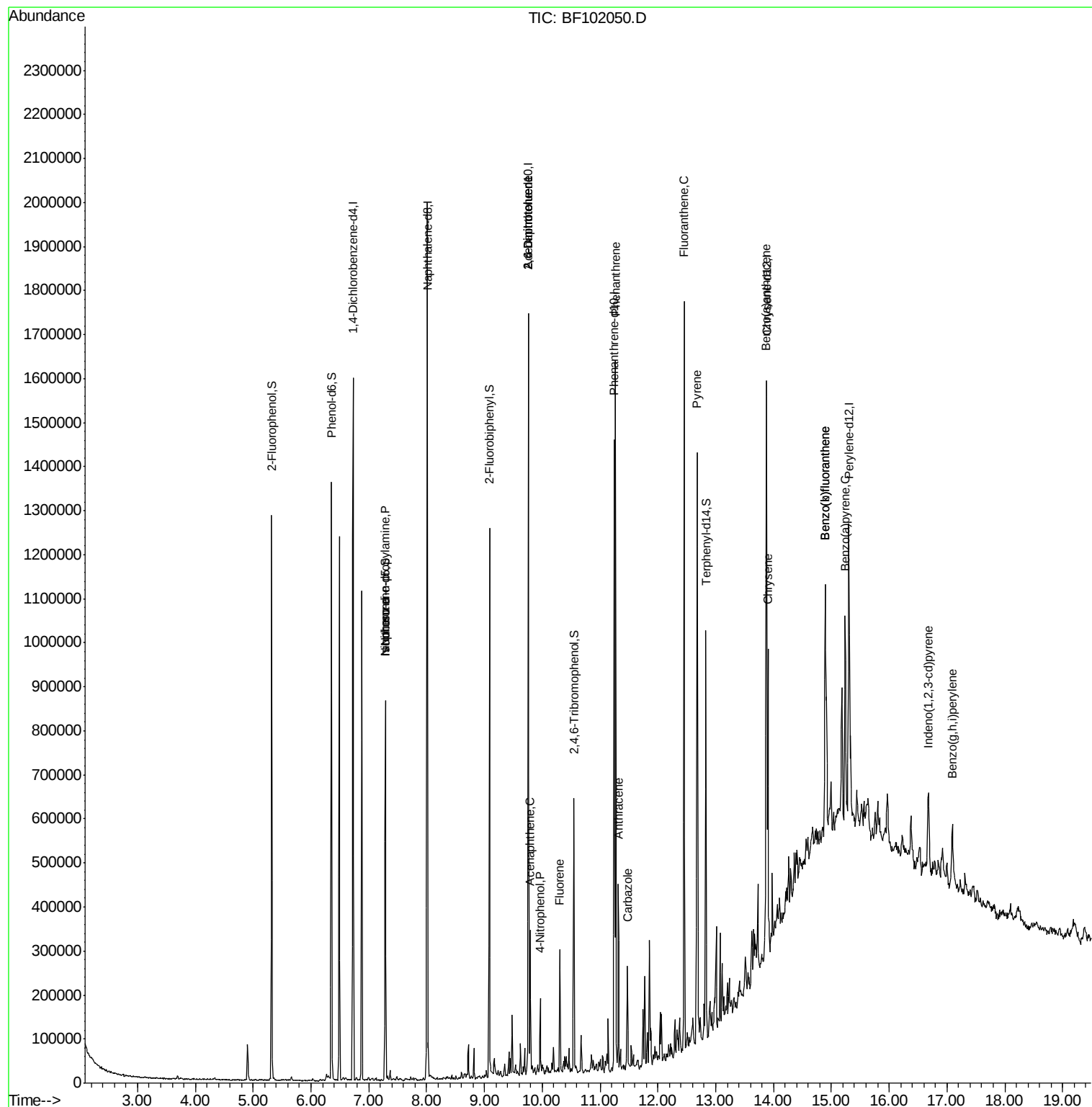
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.29	70	29046	2.439	ng	# 78
25) Isophorone	7.29	82	219557	7.864	ng	# 64
50) 2,6-Dinitrotoluene	9.76	165	42323	8.149	ng	# 26
51) Acenaphthene	9.79	154	56562	2.643	ng	100
55) 4-Nitrophenol	9.96	139	18438	3.775	ng	# 11
56) 2,4-Dinitrotoluene	9.76	165	42323	6.502	ng	# 23
57) Fluorene	10.30	166	77877	3.836	ng	99
70) Phenanthrene	11.27	178	526899	19.236	ng	98
71) Anthracene	11.32	178	148768	5.355	ng	99
72) Carbazole	11.47	167	85304	3.124	ng	97
74) Fluoranthene	12.46	202	642356	23.836	ng	97
77) Pvrene	12.68	202	542832	16.902	ng	100
80) Benzo(a)anthracene	13.87	228	262143	11.308	ng	97
82) Chrysene	13.90	228	241301	9.983	ng	99
85) Indeno(1,2,3-cd)pyrene	16.68	276	115544	6.568	ng	96
87) Benzo(b)fluoranthene	14.89	252	405018	20.343	ng	# 92
88) Benzo(k)fluoranthene	14.89	252	405018	21.088	ng	# 95
89) Benzo(a)pyrene	15.24	252	204642	11.423	ng	# 94
91) Benzo(a,h,i)perylene	17.09	276	109701	7.617	ng	93

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

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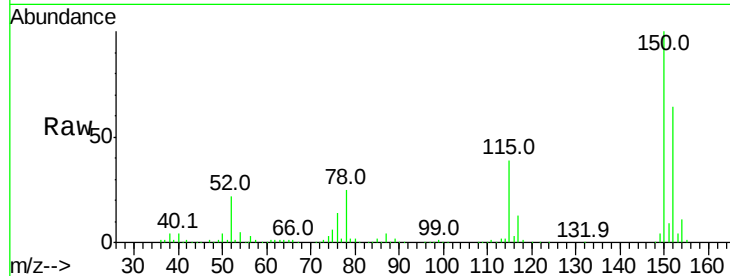


#1

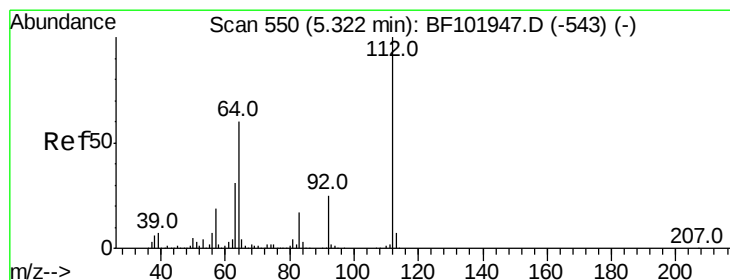
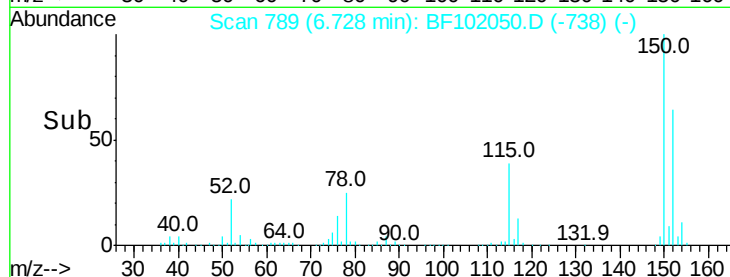
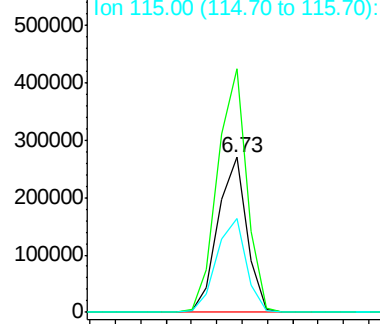
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. 0.00 min
Lab File: BF102050.D
Acq: 12 Jan 2018 18:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 215043
Ion Ratio Lower Upper
152 100
150 156.9 124.6 186.8
115 60.7 50.1 75.1



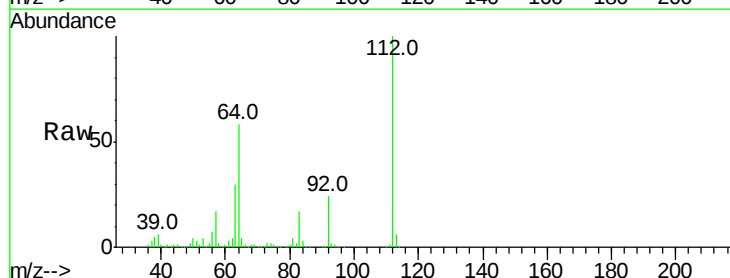
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



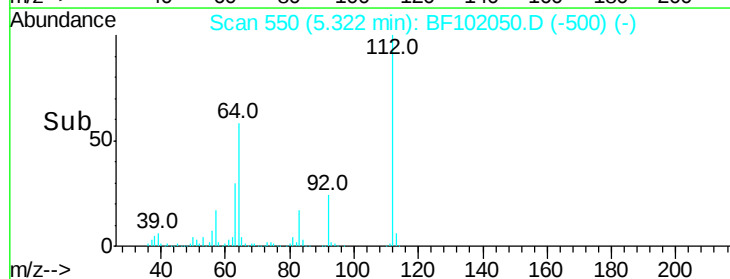
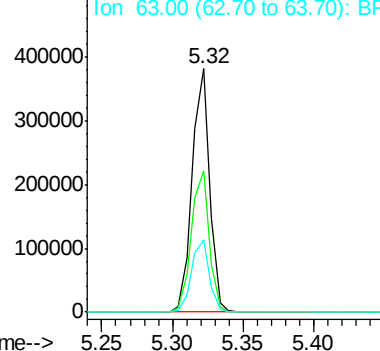
#5

2-Fluorophenol
Concen: 21.625 ng
RT: 5.32 min Scan# 550
Delta R.T. -0.01 min
Lab File: BF102050.D
Acq: 12 Jan 2018 18:35

Tgt Ion:112 Resp: 329330
Ion Ratio Lower Upper
112 100
64 58.2 47.9 71.9
63 29.7 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: 20.616 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

Instrument :

BNA_F

ClientSampleId :

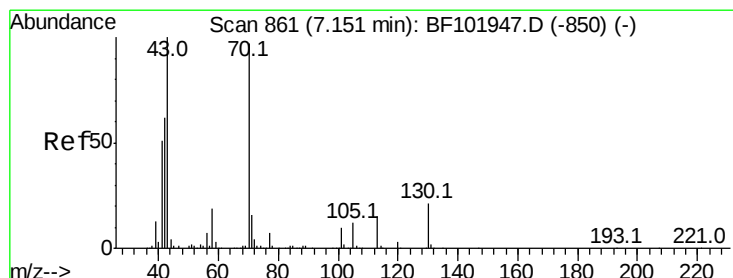
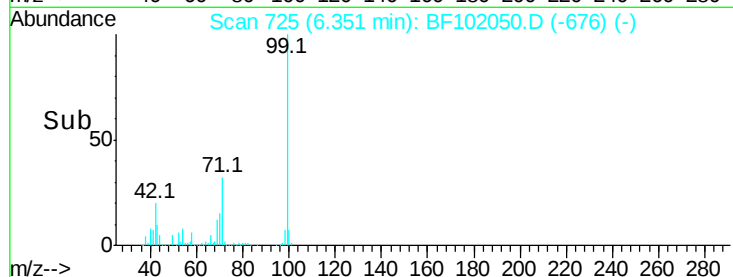
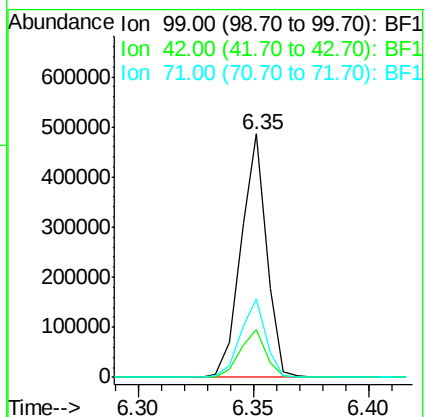
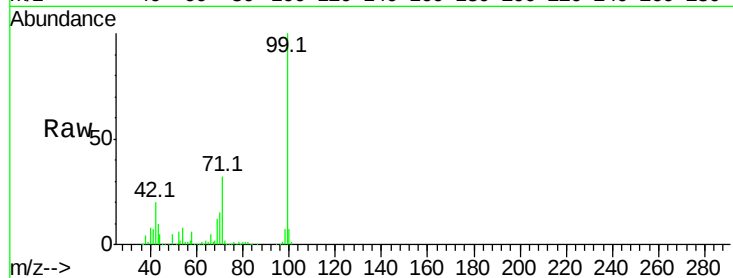
Tot Ion: 99 Resp: 374590

Ion Ratio Lower Upper

99 100

42 19.6 14.5 21.7

71 32.3 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 2.439 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.14 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

Tgt Ion: 70 Resp: 29046

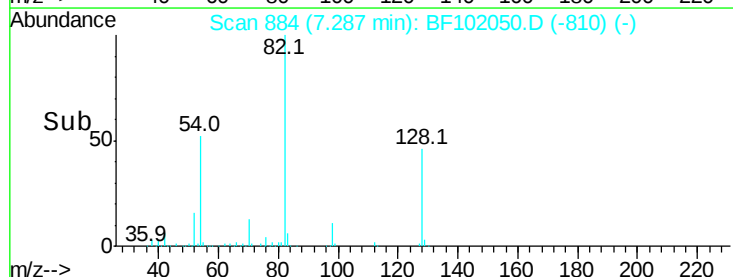
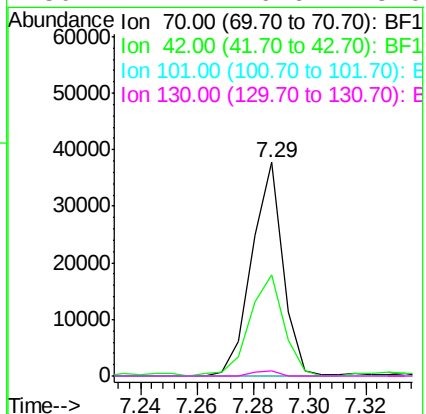
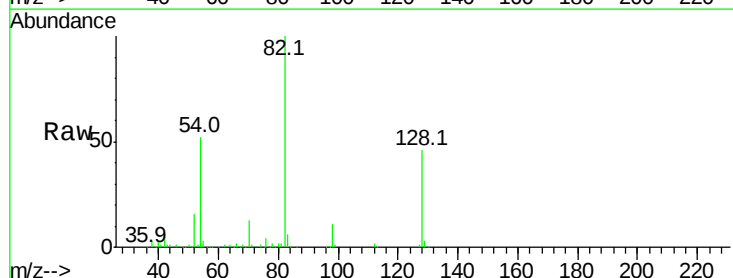
Ion Ratio Lower Upper

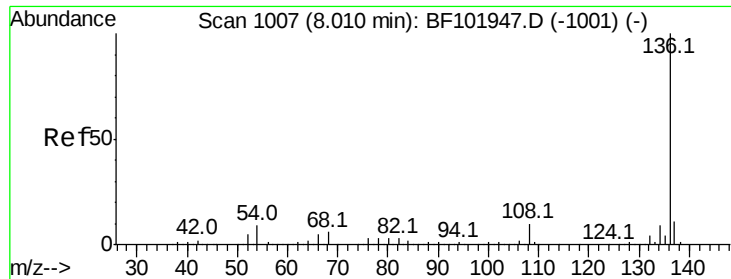
70 100

42 47.6 47.5 71.3

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#

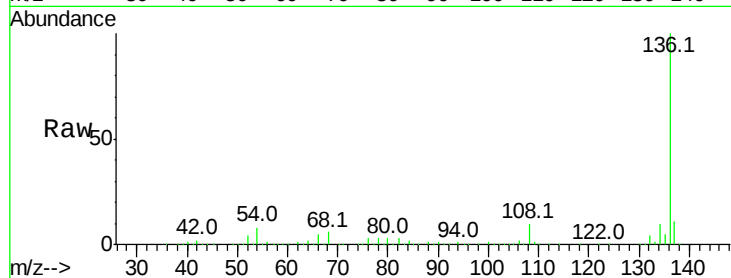




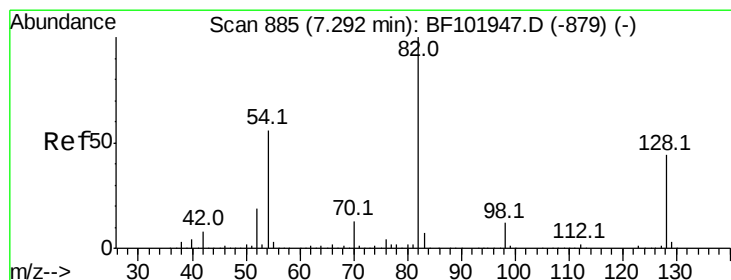
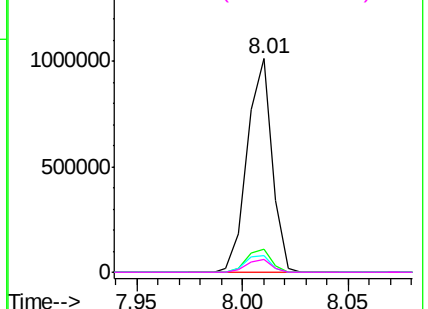
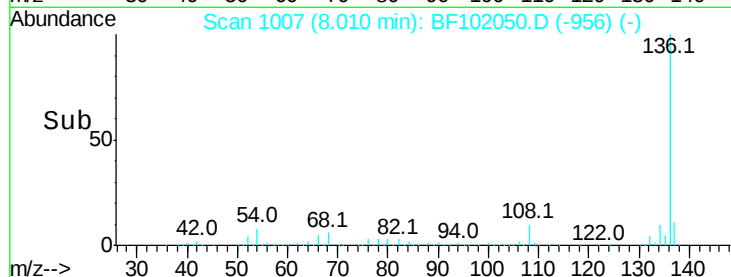
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: BF102050.D
Acq: 12 Jan 2018 18:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	830362
Ion Ratio	Lower	Upper
136	100	
137	10.8	8.9 13.3
54	7.7	6.6 9.8
68	5.7	5.0 7.4

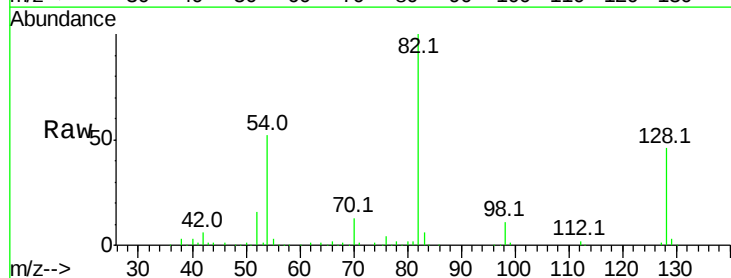


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

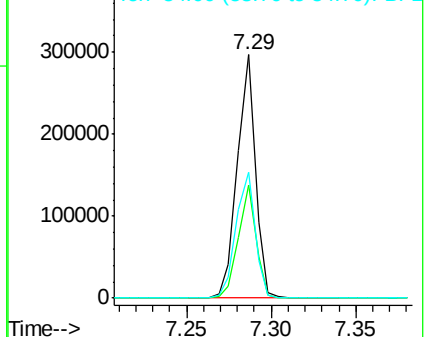
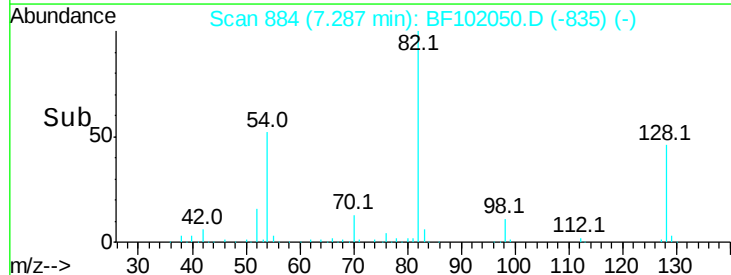


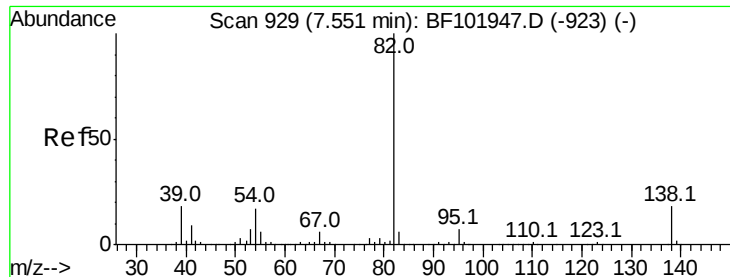
#23
Nitrobenzene-d5
Concen: 15.678 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF102050.D
Acq: 12 Jan 2018 18:35

Tgt Ion: 82	Resp:	221534
Ion Ratio	Lower	Upper
82	100	
128	46.2	36.1 54.1
54	51.6	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: 7.864 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.26 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

Instrument :

BNA_F

ClientSampleId :

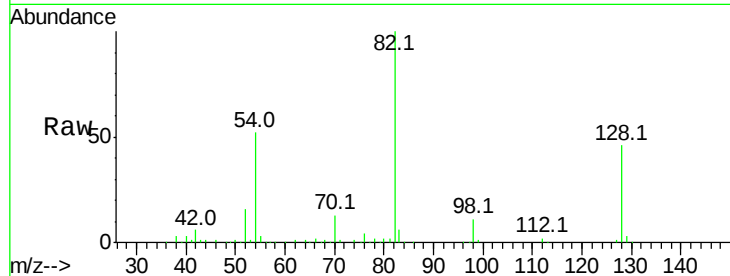
Tot Ion: 82 Resp: 219557

Ion Ratio Lower Upper

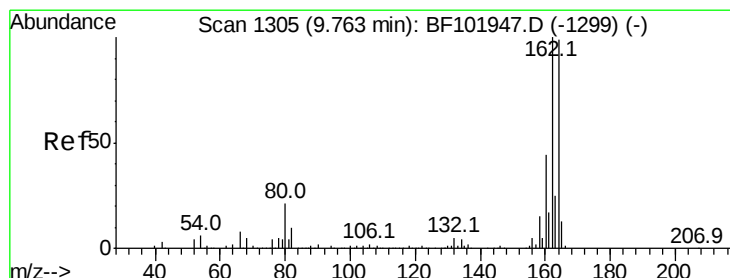
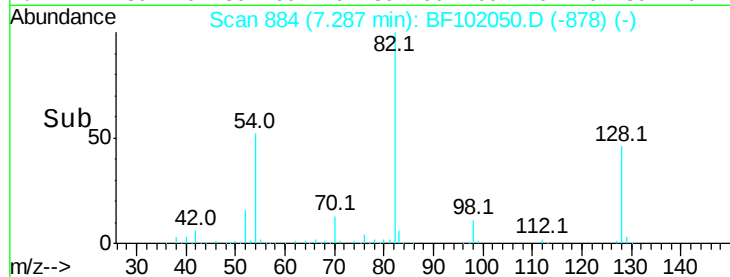
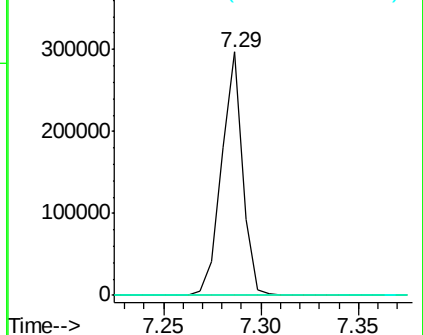
82 100

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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

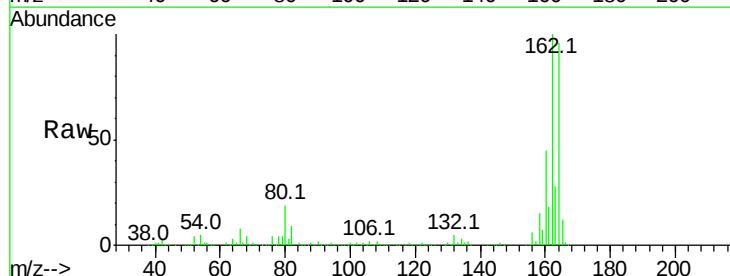
Tgt Ion:164 Resp: 324098

Ion Ratio Lower Upper

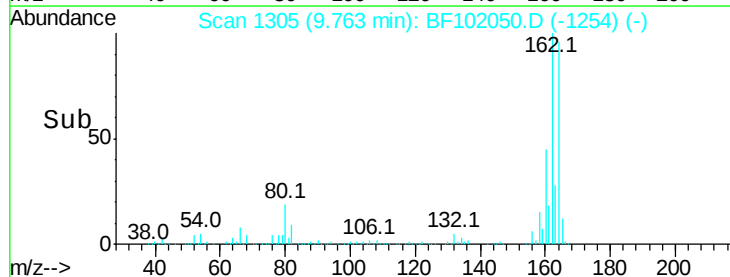
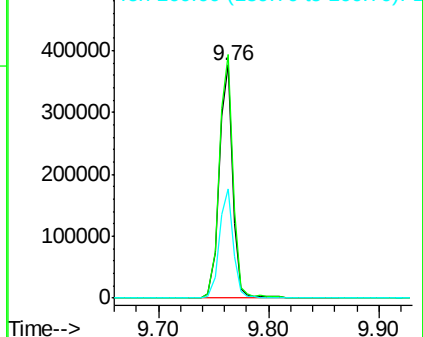
164 100

162 104.3 86.1 129.1

160 46.8 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

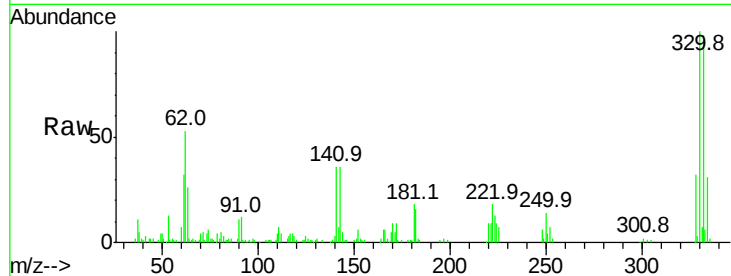




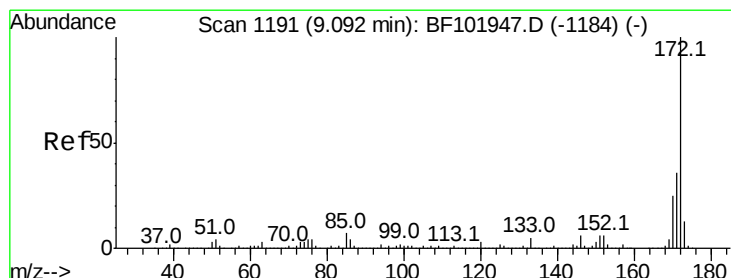
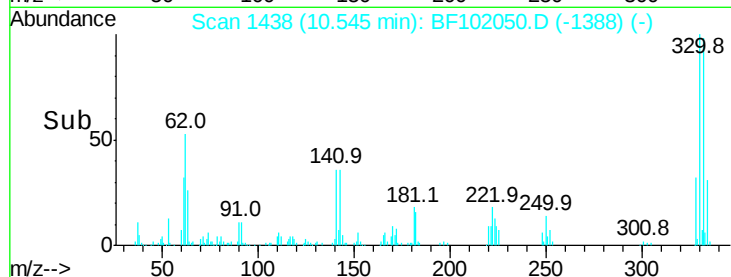
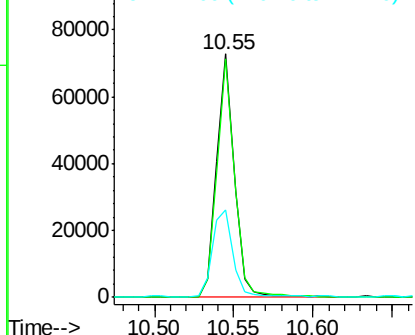
#41
 2,4,6-Tribromophenol
 Concen: 20.103 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF102050.D
 Acq: 12 Jan 2018 18:35

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 56859
 Ion Ratio Lower Upper
 330 100
 332 97.1 77.0 115.6
 141 41.7 29.9 44.9

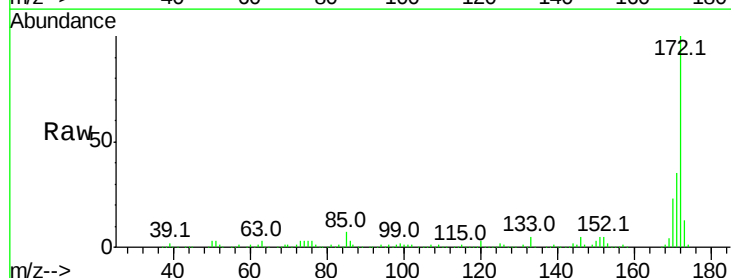


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

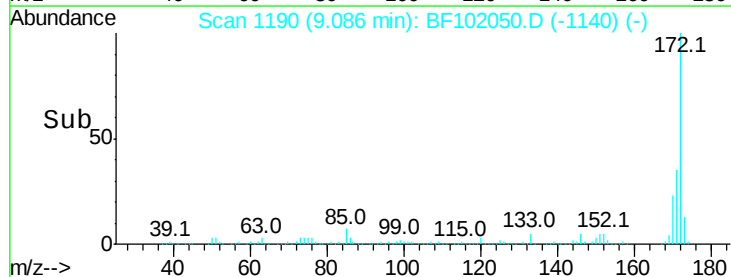
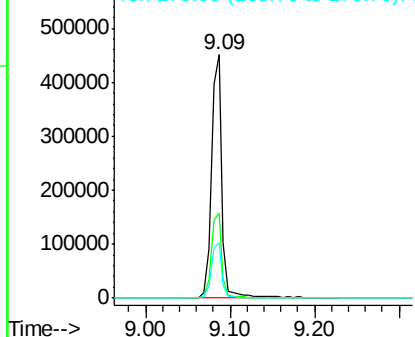


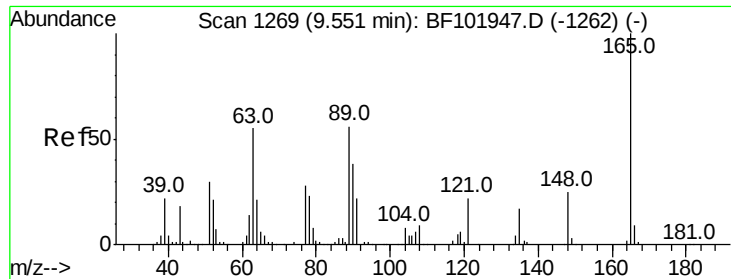
#44
 2-Fluorobiphenyl
 Concen: 19.248 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: BF102050.D
 Acq: 12 Jan 2018 18:35

Tgt Ion:172 Resp: 399309
 Ion Ratio Lower Upper
 172 100
 171 34.6 29.7 44.5
 170 22.6 19.6 29.4



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

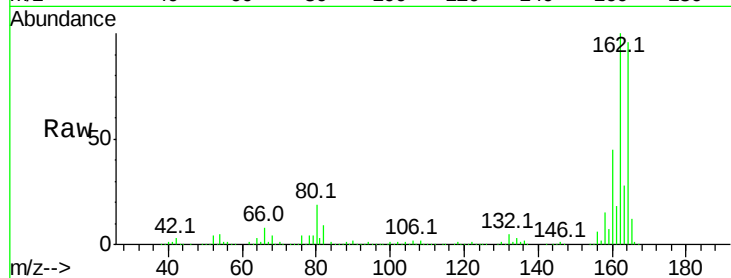




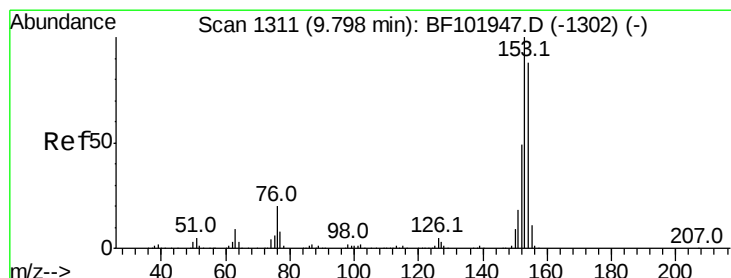
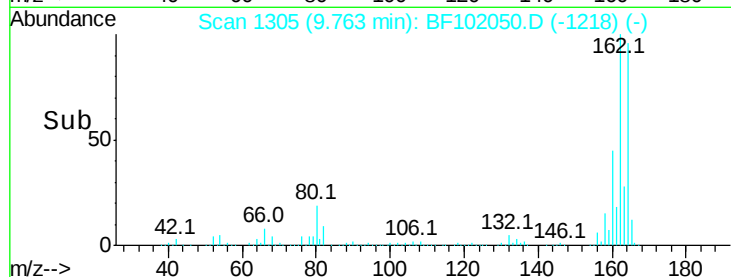
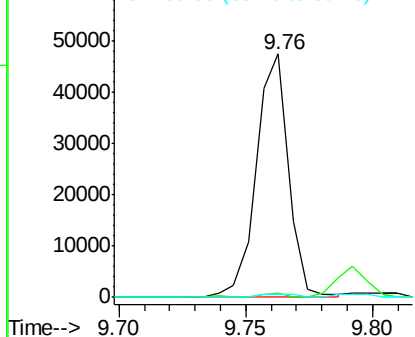
#50
2,6-Dinitrotoluene
Concen: 8.149 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.21 min
Lab File: BF102050.D
Acq: 12 Jan 2018 18:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 42323
Ion Ratio Lower Upper
165 100
63 1.7 44.7 67.1#
89 1.3 44.0 66.0#

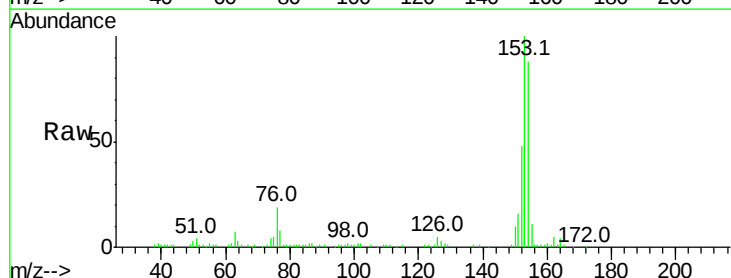


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

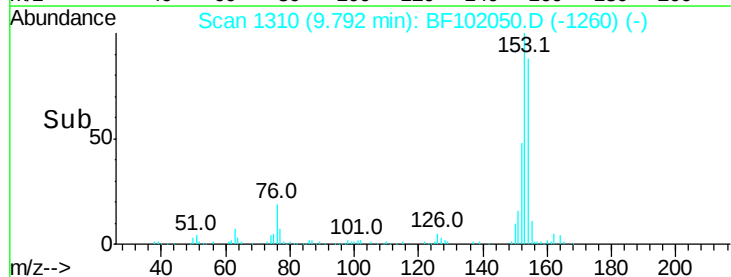
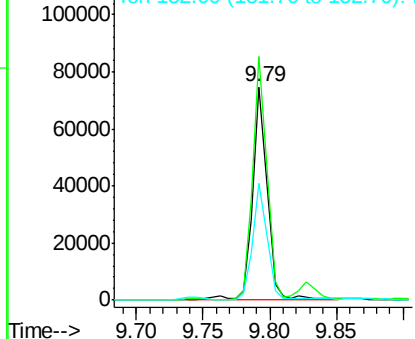


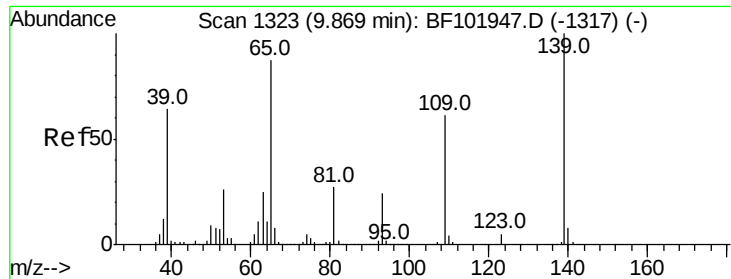
#51
Acenaphthene
Concen: 2.643 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF102050.D
Acq: 12 Jan 2018 18:35

Tgt Ion:154 Resp: 56562
Ion Ratio Lower Upper
154 100
153 114.0 91.2 136.8
152 54.8 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





#55

4-Nitrophenol

Concen: 3.775 ng

RT: 9.96 min Scan# 1339

Delta R.T. 0.09 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

Instrument :

BNA_F

ClientSampleId :

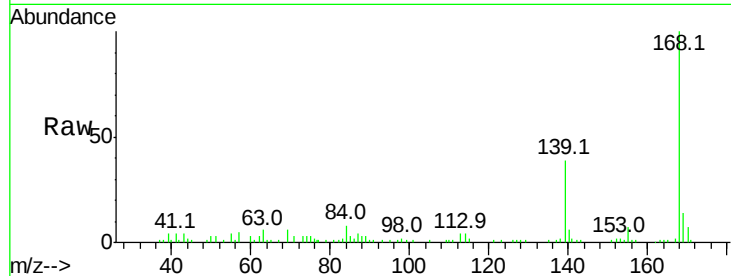
Tot Ion:139 Resp: 18438

Ion Ratio Lower Upper

139 100

109 2.1 48.4 88.4#

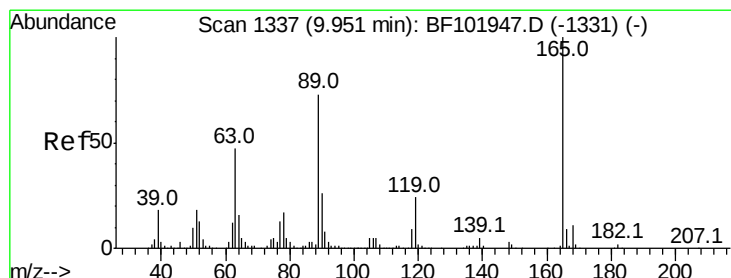
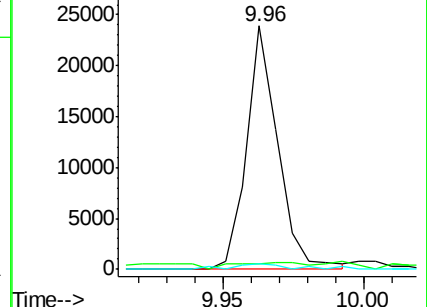
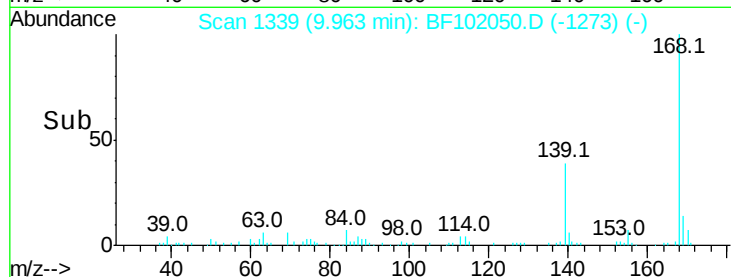
65 2.2 72.6 112.6#



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



#56

2,4-Dinitrotoluene

Concen: 6.502 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.19 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

Tgt Ion:165 Resp: 42323

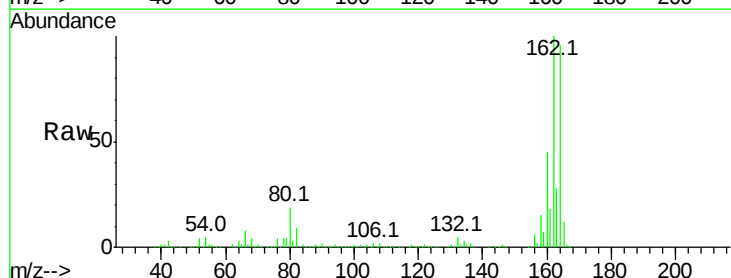
Ion Ratio Lower Upper

165 100

63 1.7 36.4 54.6#

89 1.3 57.8 86.6#

182 0.0 1.6 2.4#

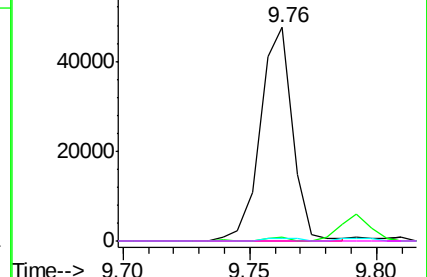
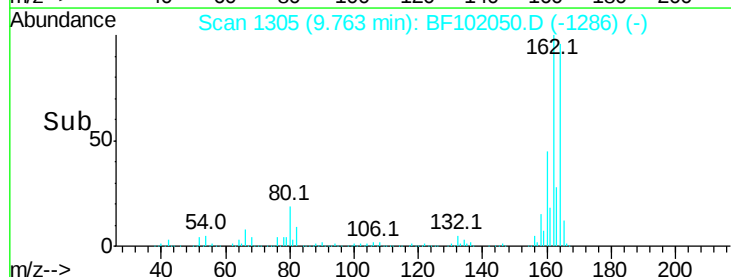


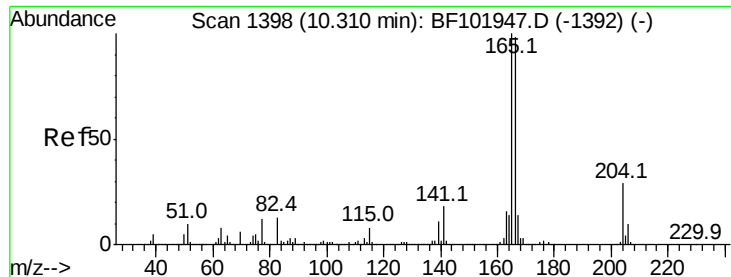
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

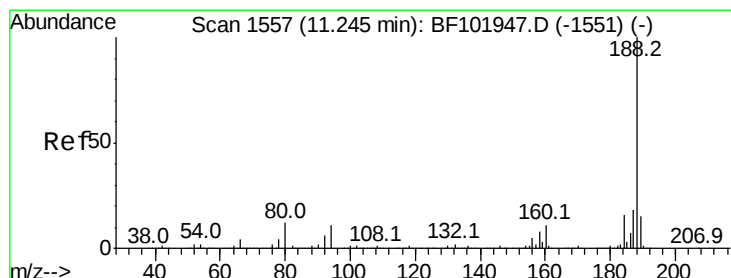
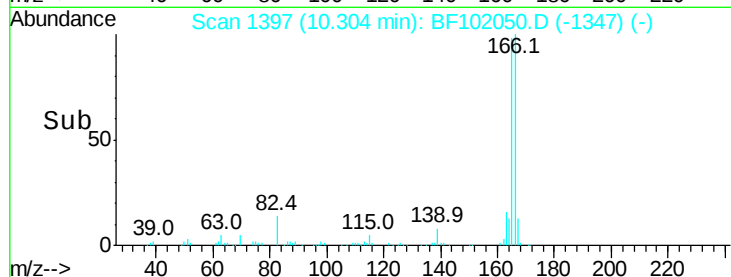
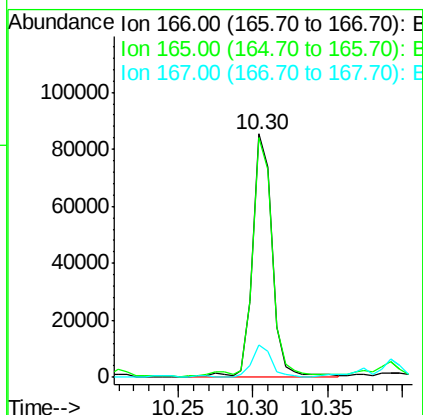
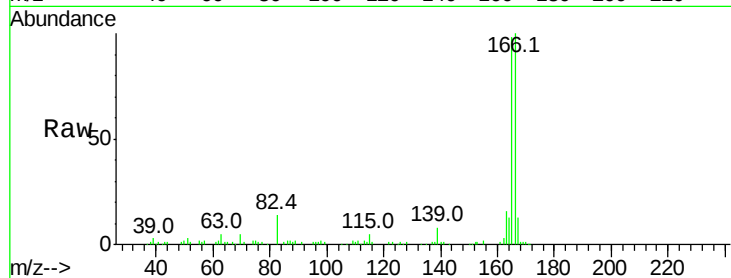




#57
Fluorene
 Concen: 3.836 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF102050.D
 Acq: 12 Jan 2018 18:35

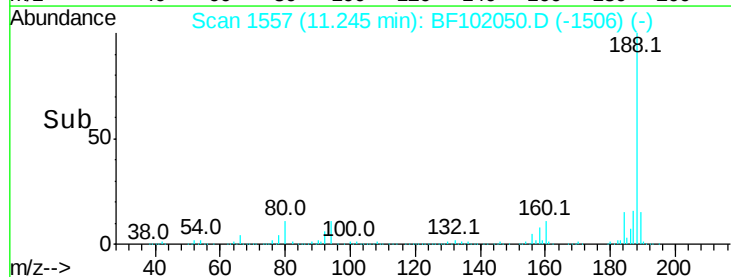
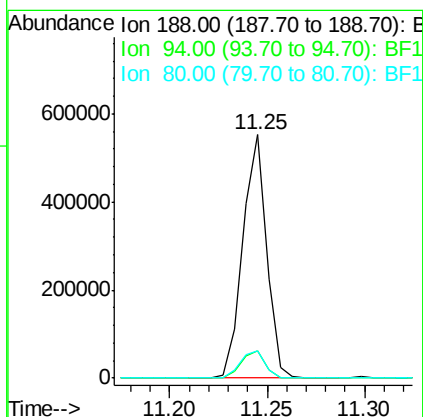
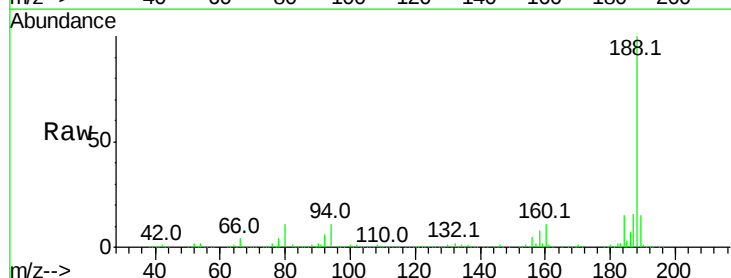
Instrument :
 BNA_F
 ClientSampleId :

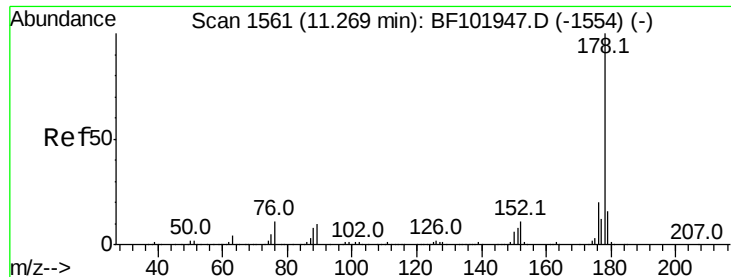
Tot Ion:166 Resp: 77877
 Ion Ratio Lower Upper
 166 100
 165 98.4 79.8 119.8
 167 13.2 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: BF102050.D
 Acq: 12 Jan 2018 18:35

Tgt Ion:188 Resp: 468924
 Ion Ratio Lower Upper
 188 100
 94 11.0 8.5 12.7
 80 11.3 9.2 13.8





#70

Phenanthrene

Concen: 19.236 ng

RT: 11.27 min Scan# 1561

Delta R.T. 0.00 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

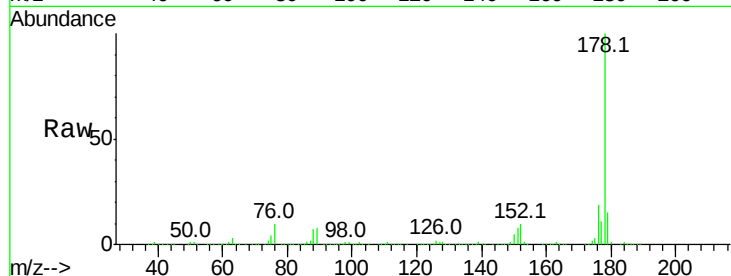
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 526899

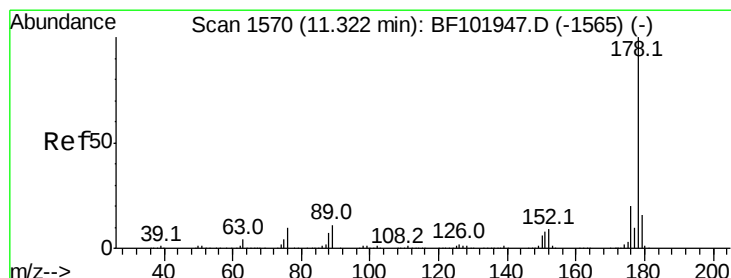
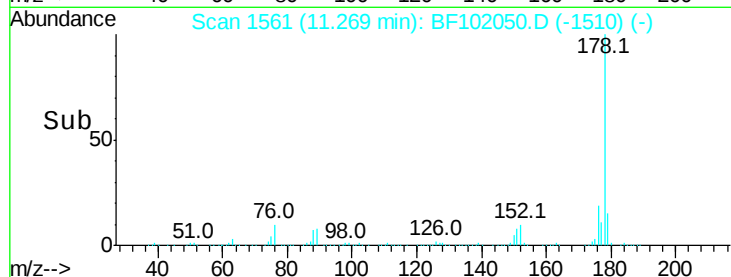
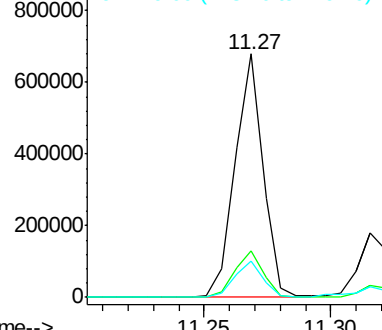
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	15.0	13.0	19.6



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: 5.355 ng

RT: 11.32 min Scan# 1569

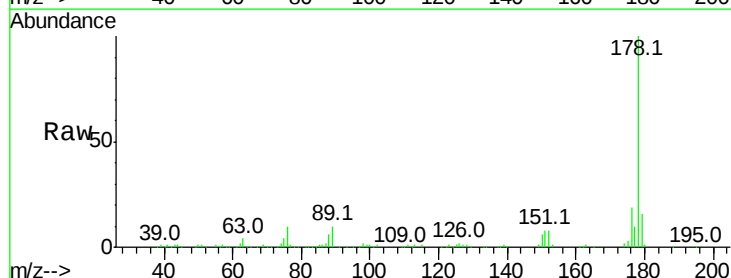
Delta R.T. -0.01 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

Tgt Ion:178 Resp: 148768

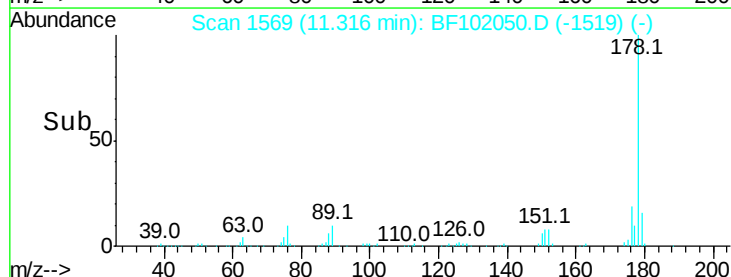
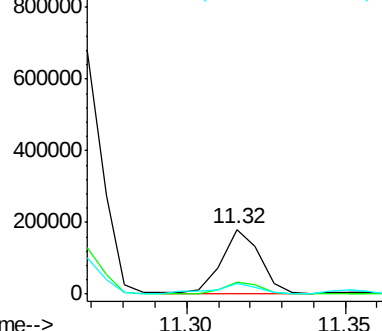
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.5	12.6	19.0

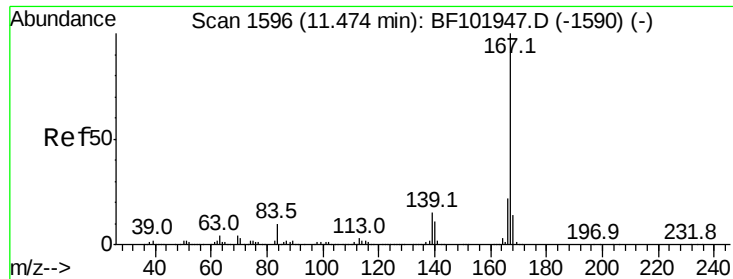


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.124 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

Instrument :

BNA_F

ClientSampleId :

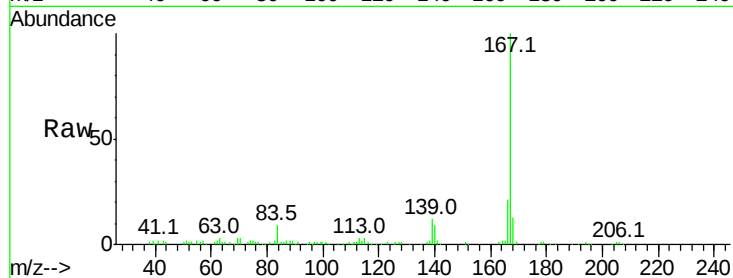
Tot Ion:167 Resp: 85304

Ion Ratio Lower Upper

167 100

166 20.8 17.6 26.4

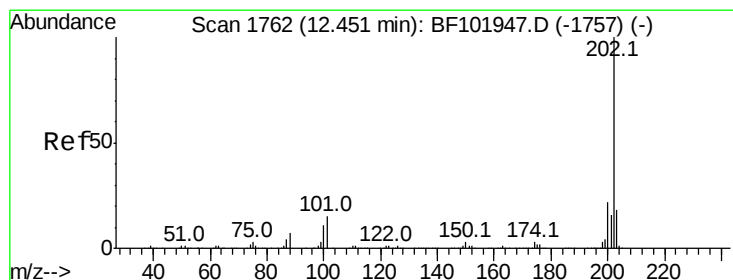
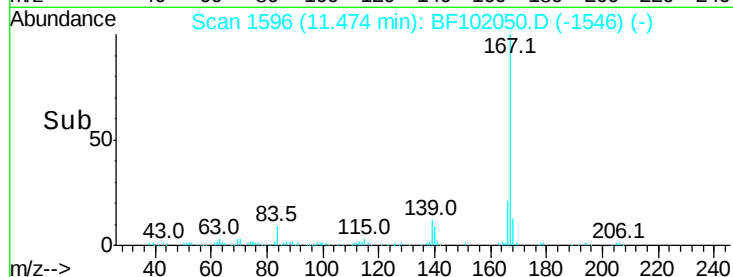
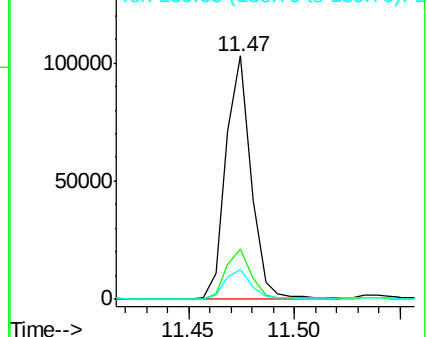
139 12.3 10.9 16.3



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: 23.836 ng

RT: 12.46 min Scan# 1763

Delta R.T. 0.00 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

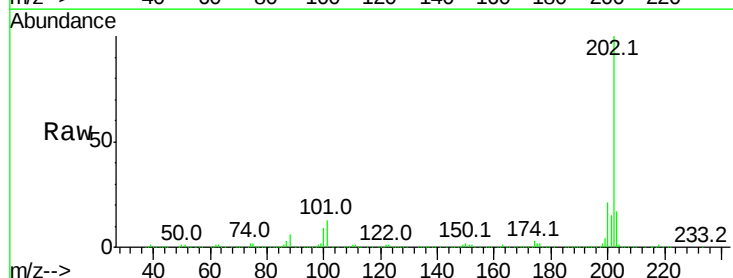
Tgt Ion:202 Resp: 642356

Ion Ratio Lower Upper

202 100

101 12.9 0.0 34.1

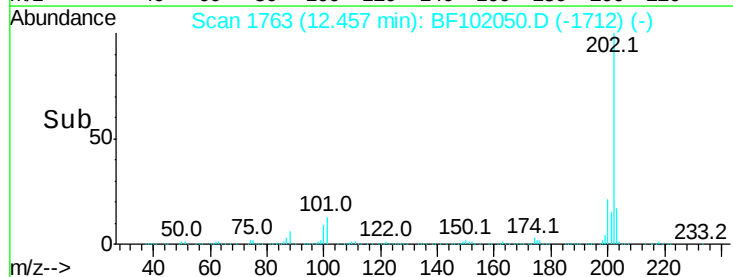
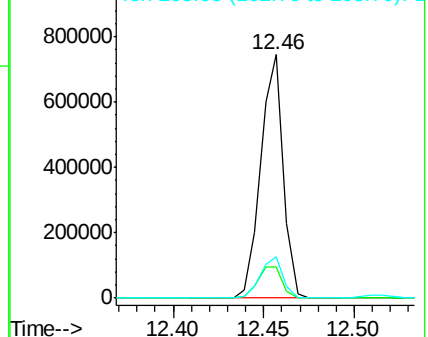
203 17.1 0.0 38.1

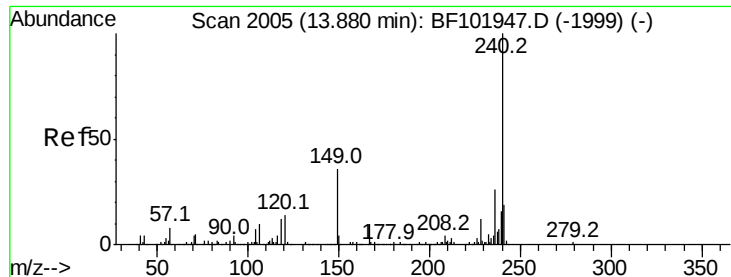


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.88 min Scan# 2005

Delta R.T. 0.00 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

Instrument :

BNA_F

ClientSampleId :

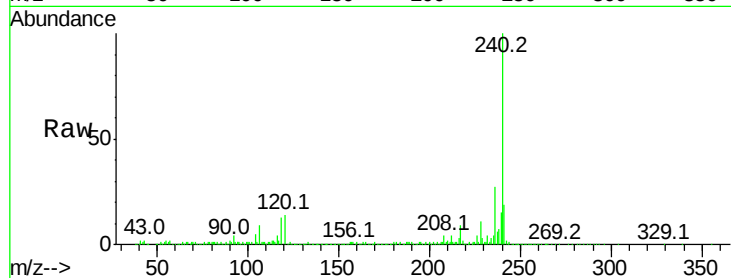
Tot Ion:240 Resp: 363329

Ion Ratio Lower Upper

240 100

120 13.8 9.5 14.3

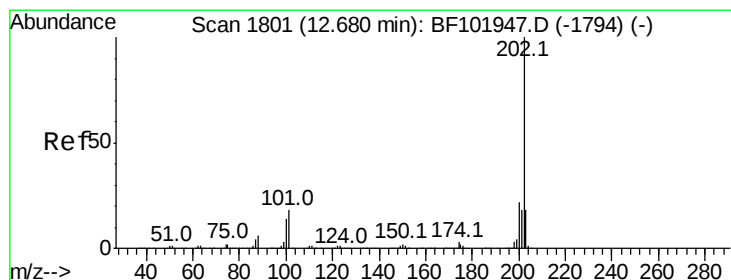
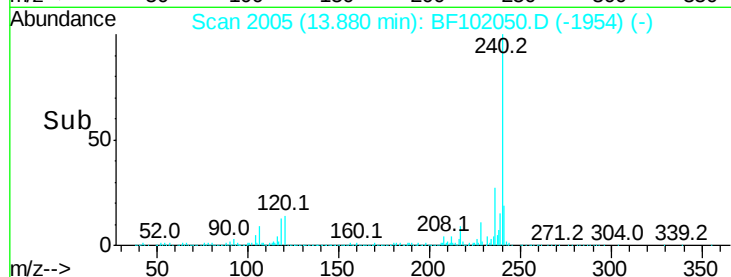
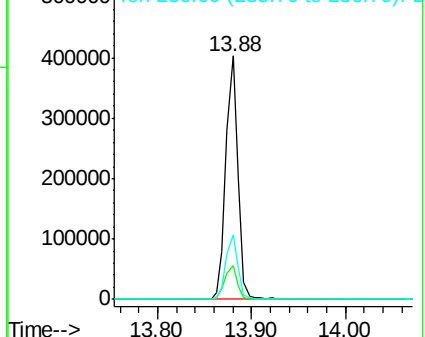
236 26.7 20.7 31.1



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: 16.902 ng

RT: 12.68 min Scan# 1801

Delta R.T. 0.00 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

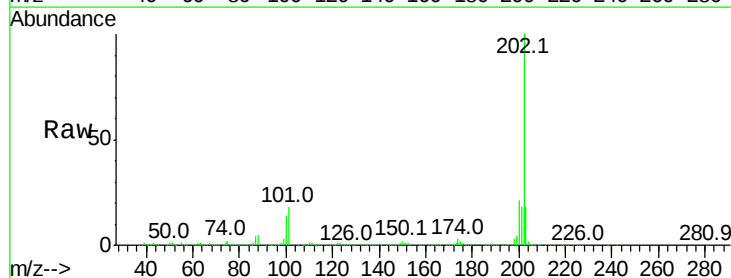
Tgt Ion:202 Resp: 542832

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

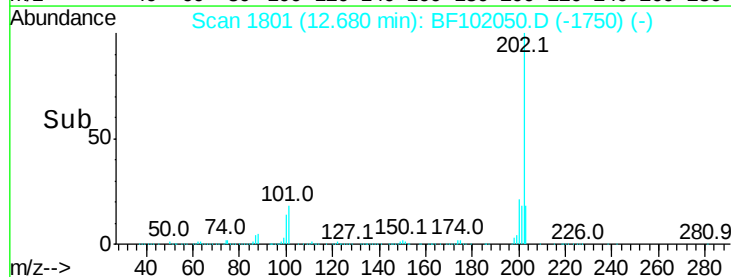
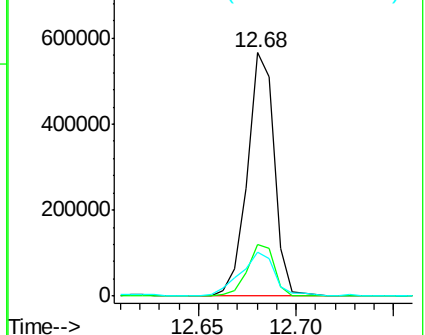
203 17.9 14.3 21.5

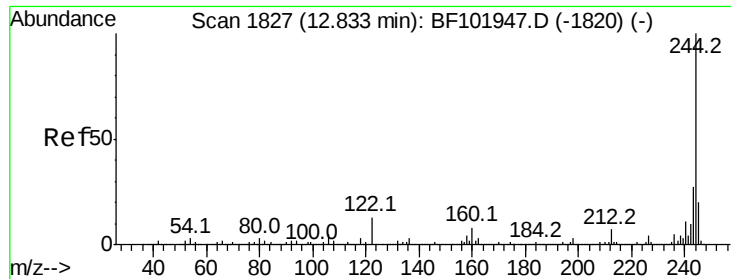


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

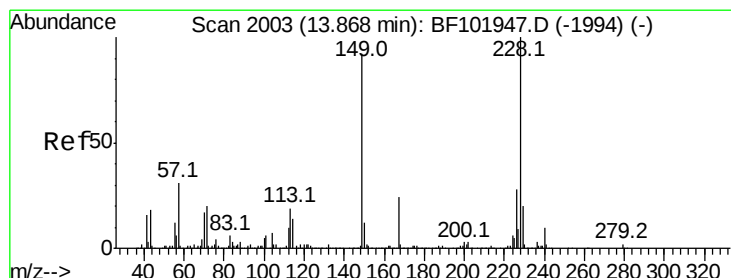
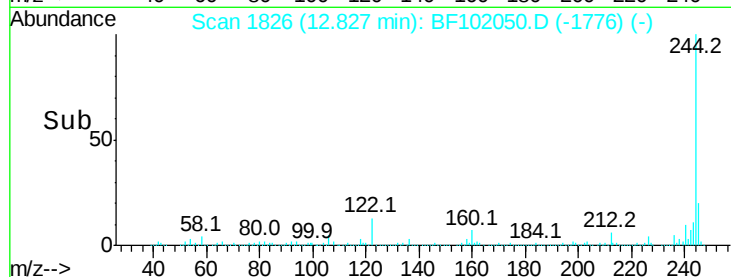
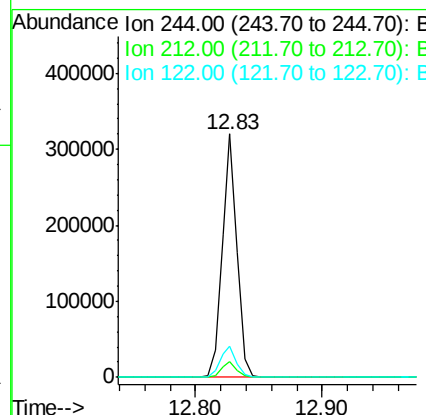
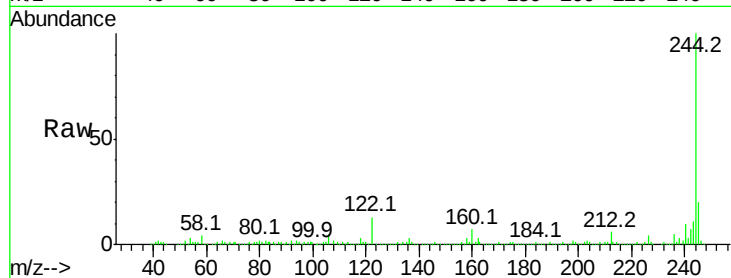




#78
 Terphenyl-d14
 Concen: 14.966 ng
 RT: 12.83 min Scan# 1826
 Delta R.T. -0.01 min
 Lab File: BF102050.D
 Acq: 12 Jan 2018 18:35

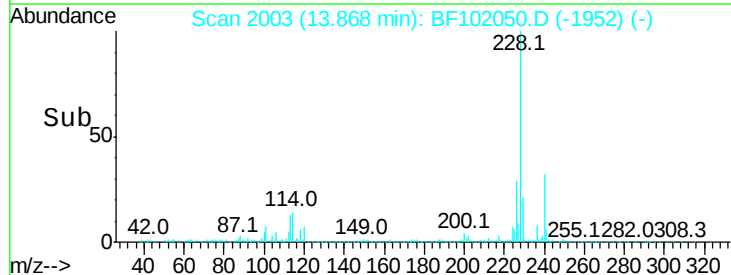
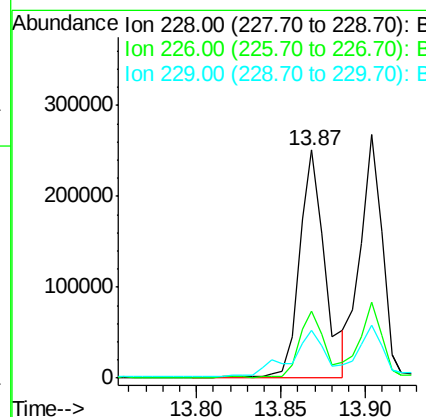
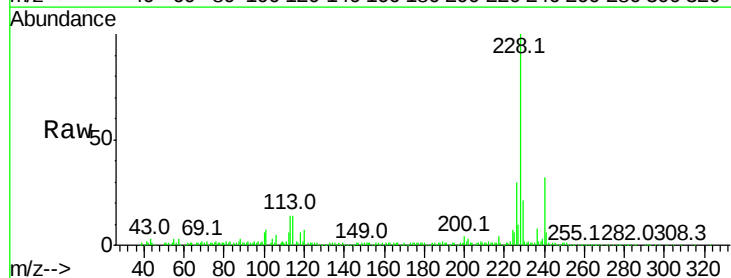
Instrument :
 BNA_F
 ClientSampleId :

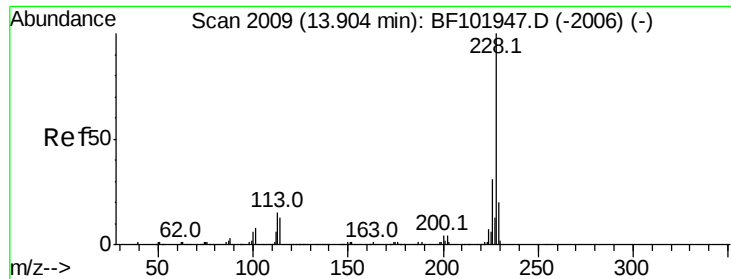
Tot Ion:244 Resp: 261893
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.4 8.0
 122 12.8 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 11.308 ng
 RT: 13.87 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: BF102050.D
 Acq: 12 Jan 2018 18:35

Tgt Ion:228 Resp: 262143
 Ion Ratio Lower Upper
 228 100
 226 29.6 22.6 33.8
 229 21.2 15.8 23.6





#82

Chrysene

Concen: 9.983 ng

RT: 13.90 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

Instrument :

BNA_F

ClientSampleId :

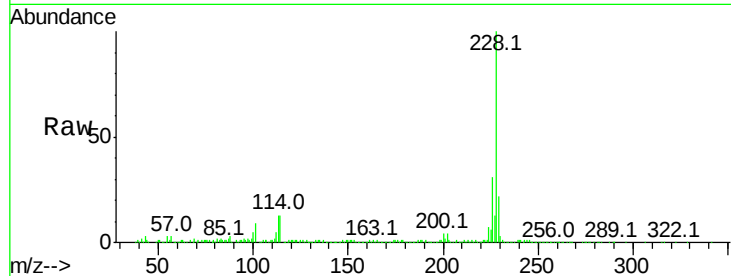
Tot Ion:228 Resp: 241301

Ion Ratio Lower Upper

228 100

226 31.2 25.0 37.6

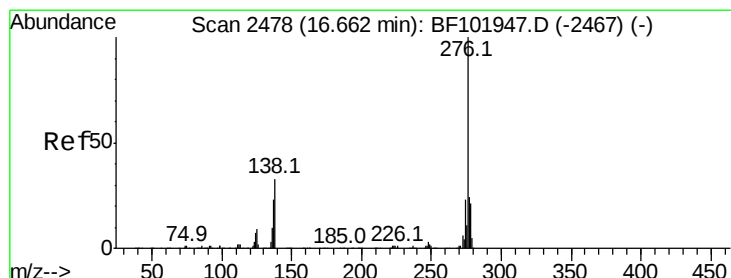
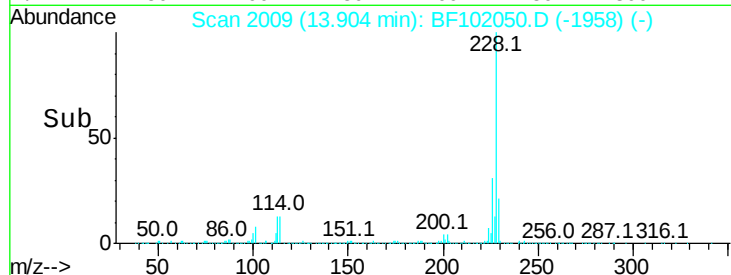
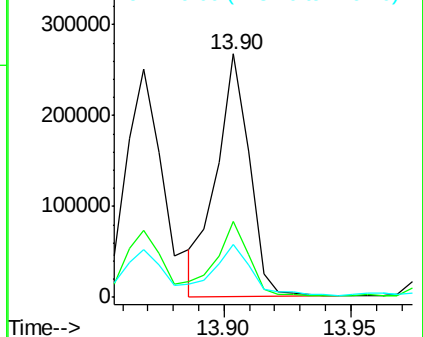
229 21.8 16.2 24.4



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: 6.568 ng

RT: 16.68 min Scan# 2481

Delta R.T. 0.01 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

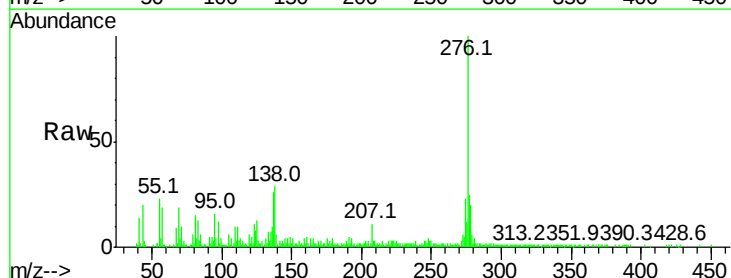
Tgt Ion:276 Resp: 115544

Ion Ratio Lower Upper

276 100

138 27.7 25.0 37.6

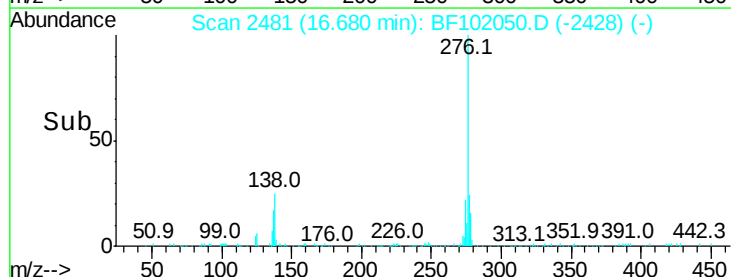
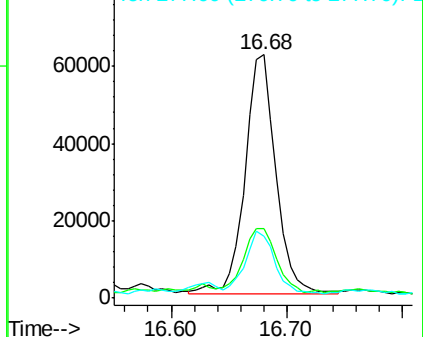
277 25.2 20.1 30.1

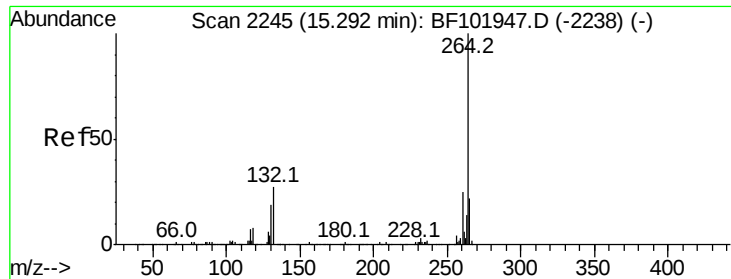


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



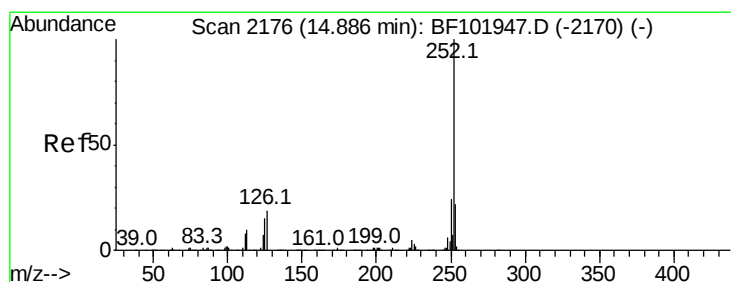
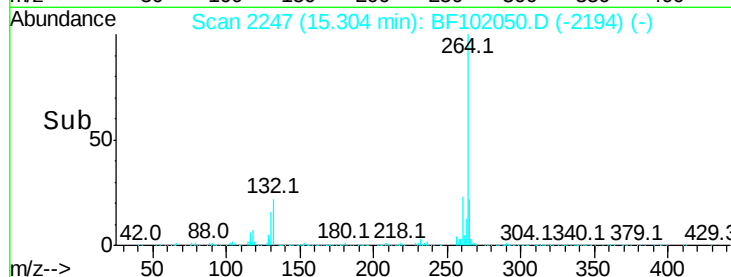
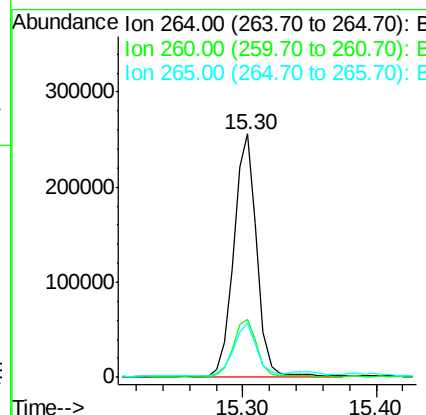
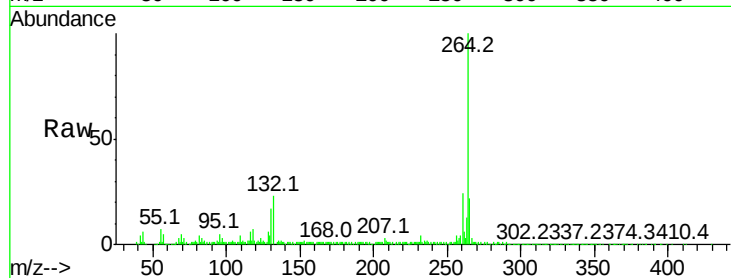


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.01 min
Lab File: BF102050.D
Acq: 12 Jan 2018 18:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 305339

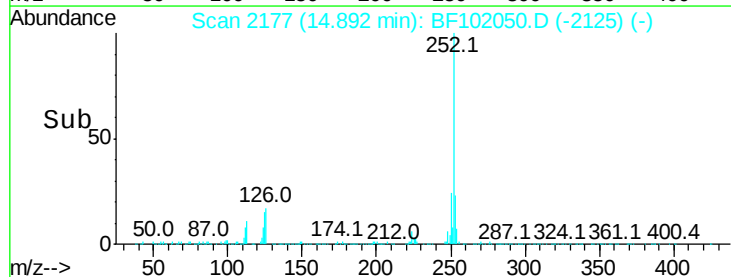
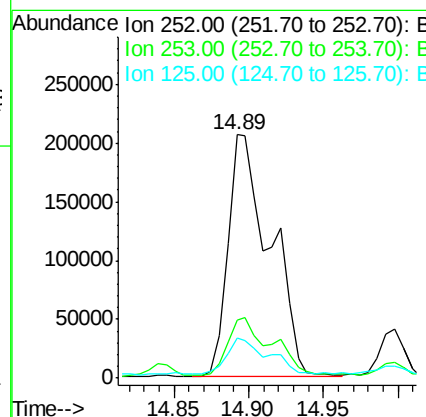
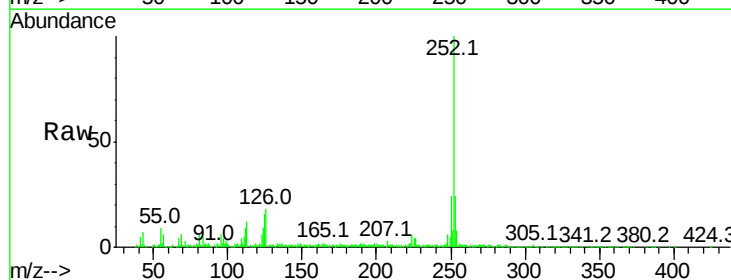
Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.2	17.5	26.3

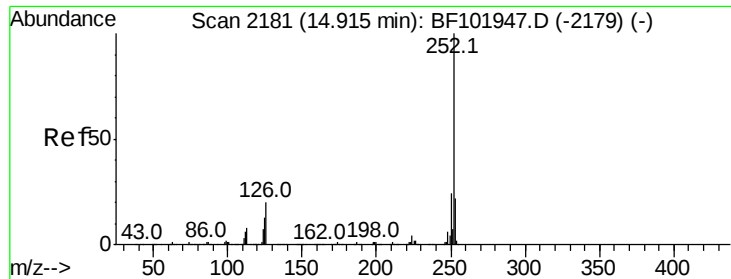


#87
Benzo(b)fluoranthene
Concen: 20.343 ng
RT: 14.89 min Scan# 2177
Delta R.T. 0.01 min
Lab File: BF102050.D
Acq: 12 Jan 2018 18:35

Tgt Ion:252 Resp: 405018

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.0	25.6
125	16.4	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 21.088 ng

RT: 14.89 min Scan# 2177

Delta R.T. -0.02 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

Instrument :

BNA_F

ClientSampleId :

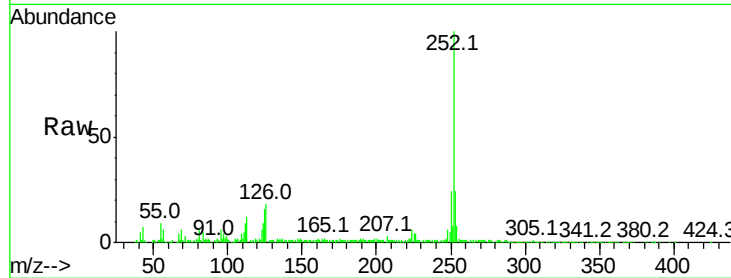
Tot Ion:252 Resp: 405018

Ion Ratio Lower Upper

252 100

253 23.9 17.9 26.9

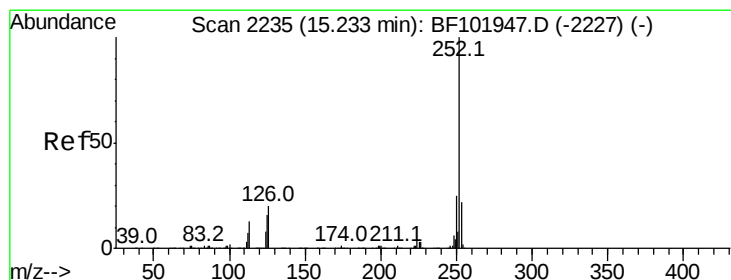
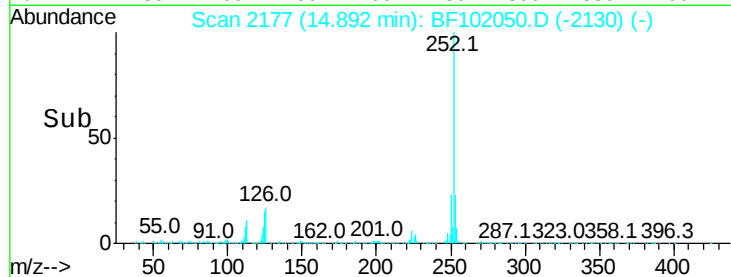
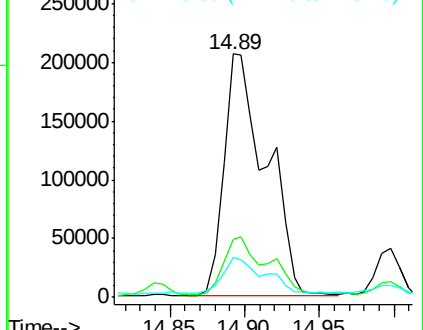
125 16.4 10.2 15.2#



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: 11.423 ng

RT: 15.24 min Scan# 2236

Delta R.T. 0.01 min

Lab File: BF102050.D

Acq: 12 Jan 2018 18:35

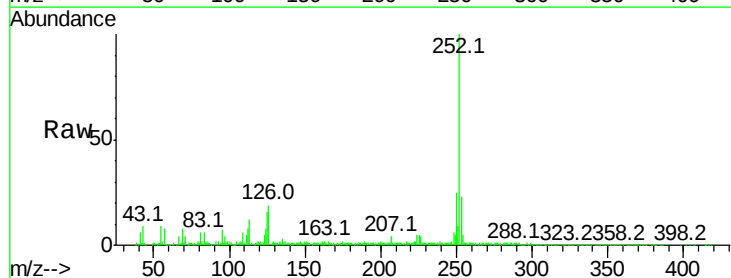
Tgt Ion:252 Resp: 204642

Ion Ratio Lower Upper

252 100

253 23.3 17.1 25.7

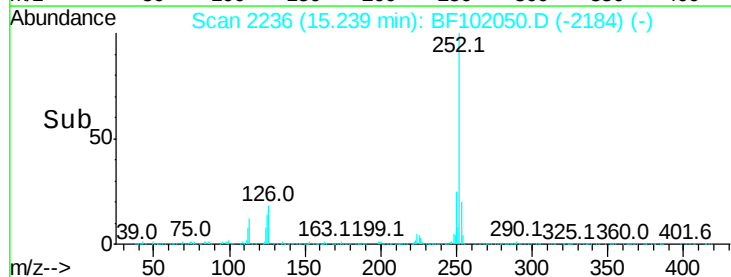
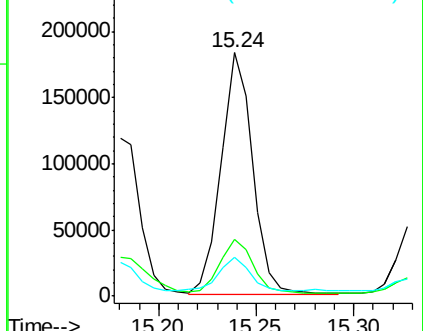
125 15.7 9.8 14.6#

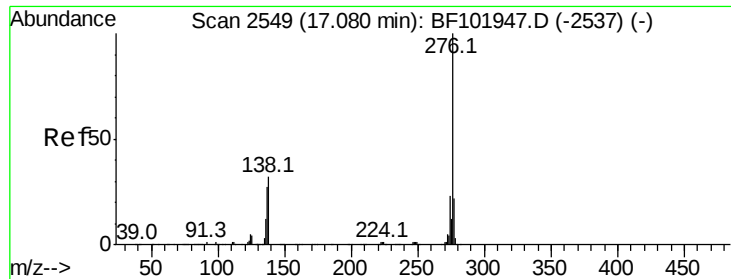


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

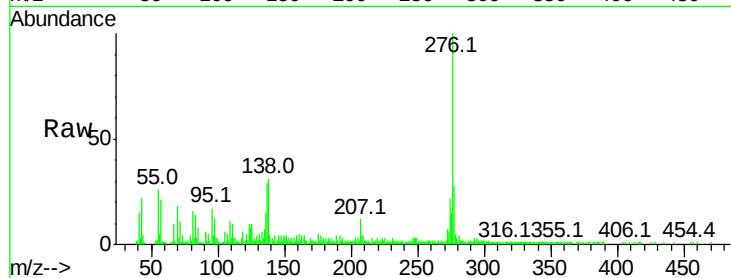




#91
 Benzo(a,h,i)perylene
 Concen: 7.617 ng
 RT: 17.09 min Scan# 2551
 Delta R.T. 0.01 min
 Lab File: BF102050.D
 Acq: 12 Jan 2018 18:35

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.5	17.9	26.9
138	30.7	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

