

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072418\
 Data File : BF107647.D
 Acq On : 25 Jul 2018 5:47
 Operator : JU/SJ
 Sample : J4096-04DL 10X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 25 07:51:02 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	203942	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	808030	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	321601	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	555639	20.00	ng	-0.01
75) Chrysene-d12	14.15	240	388882	20.00	ng	-0.01
86) Perylene-d12	15.69	264	339076	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.60	112	53439	4.21	ng	0.00
7) Phenol-d6	6.61	99	97987	6.43	ng	0.00
23) Nitrobenzene-d5	7.53	82	61952	5.17	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	21811	5.96	ng	-0.02
44) 2-Fluorobiphenyl	9.32	172	138309	1.77	ng	-0.02
78) Terphenyl-d14	13.08	244	112458	7.40	ng	-0.02

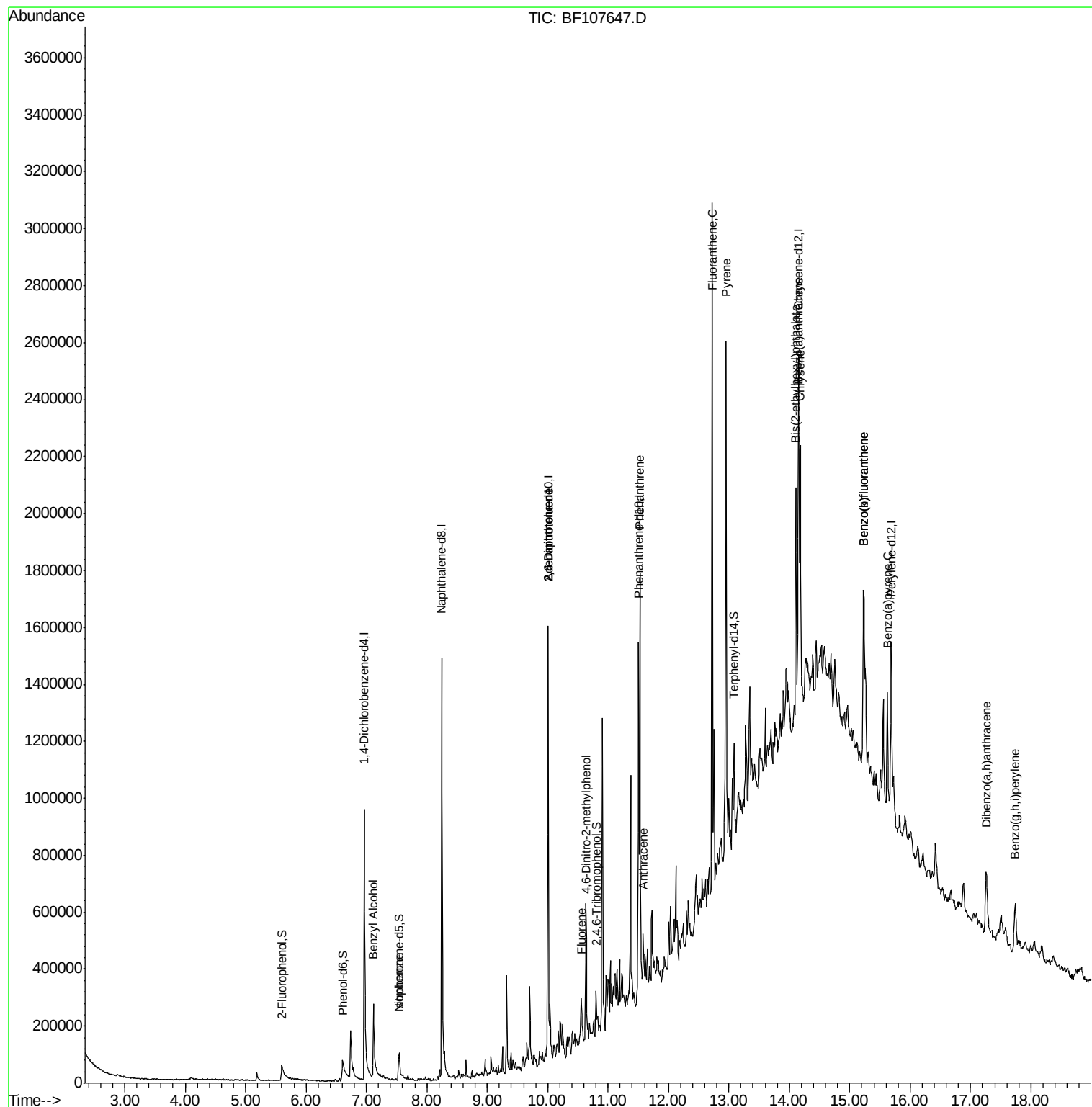
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.61	77	121	Below Cal		# 1
15) Benzyl Alcohol	7.12	79	33960	3.272	ng	93
25) Isophorone	7.53	82	61952	2.423	ng	# 64
50) 2,6-Dinitrotoluene	10.01	165	44026	9.149	ng	# 26
56) 2,4-Dinitrotoluene	10.01	165	44026	7.579	ng	# 24
57) Fluorene	10.56	166	59687	2.820	ng	# 91
64) 4,6-Dinitro-2-methylphenol	10.65	198	111	8.715	ng	# 1
70) Phenanthrene	11.52	178	611731	22.593	ng	100
71) Anthracene	11.58	178	149686	5.491	ng	97
73) Di-n-butylphthalate	12.05	149	6704	Below Cal		# 77
74) Fluoranthene	12.72	202	1159868	39.920	ng	97
77) Pvrene	12.95	202	874540	32.878	ng	98
80) Benzo(a)anthracene	14.14	228	278161	12.206	ng	97
81) 3,3'-Dichlorobenzidine	14.08	252	842	Below Cal		# 1
82) Chrysene	14.18	228	422728	19.310	ng	99
83) Bis(2-ethylhexyl)phthalate	14.11	149	225540	13.973	ng	99
87) Benzo(b)fluoranthene	15.23	252	587890	31.680	ng	# 92
88) Benzo(k)fluoranthene	15.23	252	587890	32.335	ng	# 95
89) Benzo(a)pvrene	15.62	252	218562	12.876	ng	# 94
90) Dibenzo(a,h)anthracene	17.27	278	31322	2.135	ng	# 87
91) Benzo(g,h,i)perylene	17.74	276	154374	10.666	ng	95

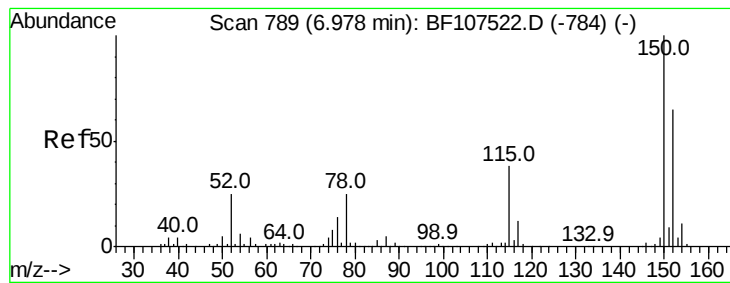
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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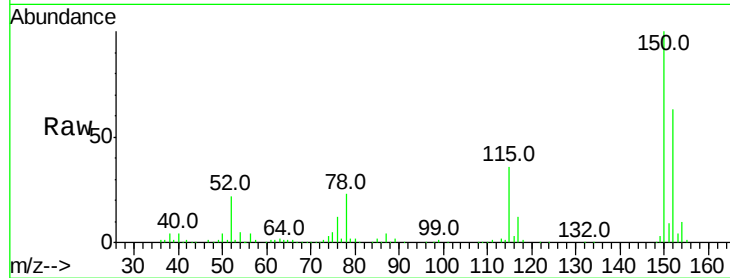


#1

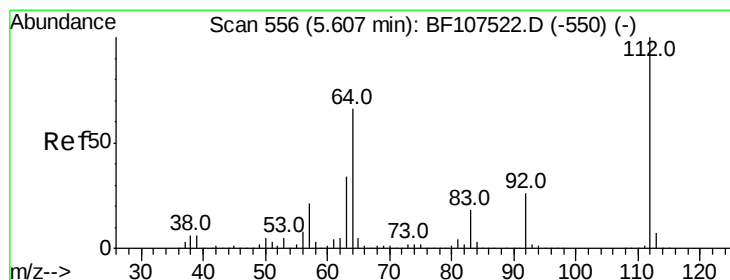
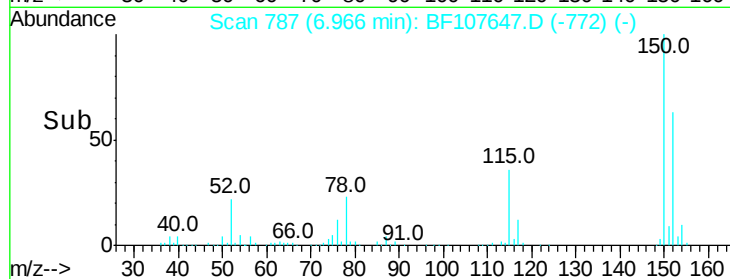
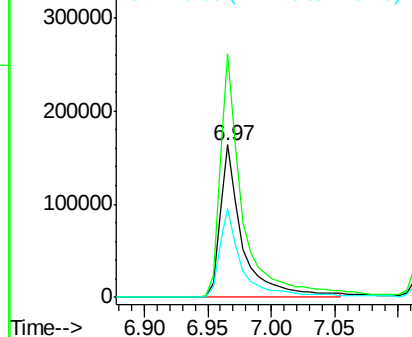
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF107647.D
Acq: 25 Jul 2018 5:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 203942
Ion Ratio Lower Upper
152 100
150 159.5 124.6 186.8
115 57.9 50.1 75.1



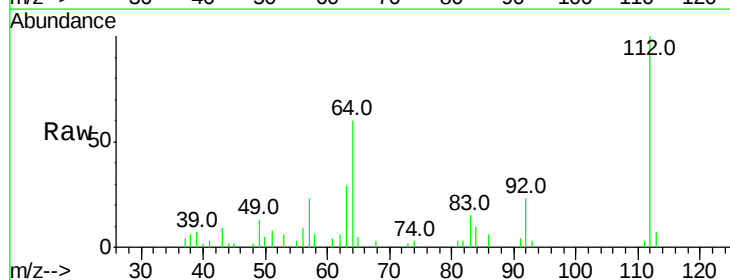
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



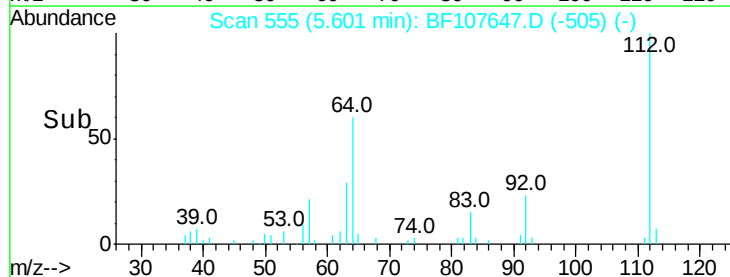
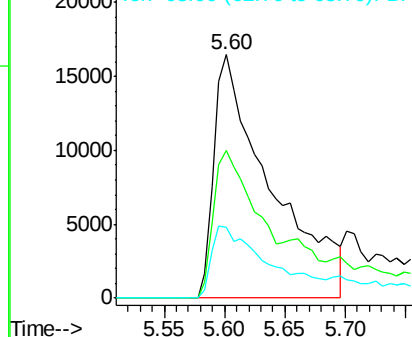
#5

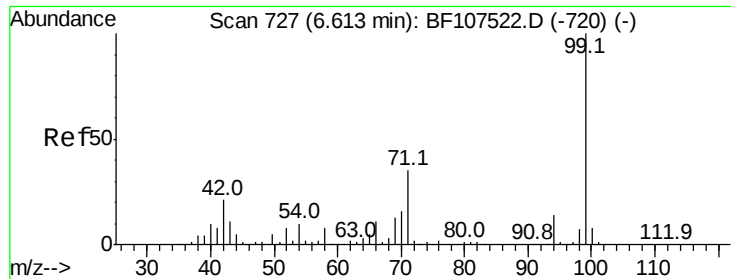
2-Fluorophenol
Concen: 4.213 ng
RT: 5.60 min Scan# 555
Delta R.T. -0.01 min
Lab File: BF107647.D
Acq: 25 Jul 2018 5:47

Tgt Ion:112 Resp: 53439
Ion Ratio Lower Upper
112 100
64 60.4 47.9 71.9
63 29.4 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 6.434 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

Instrument :

BNA_F

ClientSampleId :

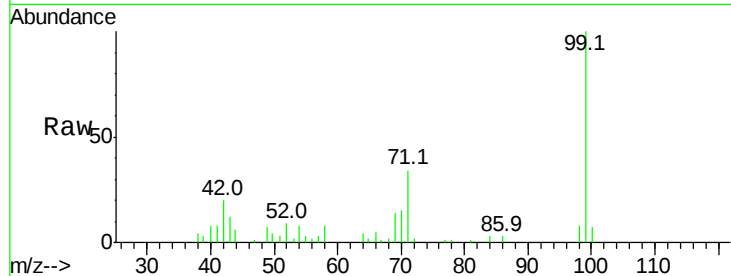
Tot Ion: 99 Resp: 97987

Ion	Ratio	Lower	Upper
99	100		
42	19.6	14.5	21.7
71	33.6	25.4	38.0

99 100

42 19.6 14.5 21.7

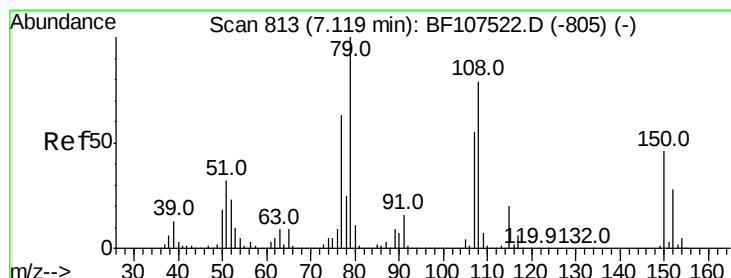
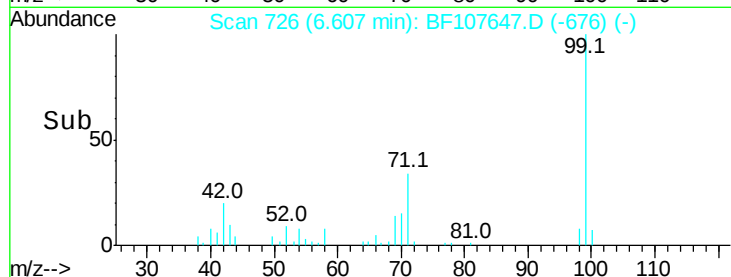
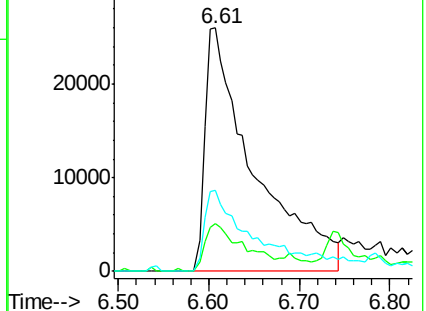
71 33.6 25.4 38.0



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



#15

Benzyl Alcohol

Concen: 3.272 ng

RT: 7.12 min Scan# 813

Delta R.T. 0.00 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

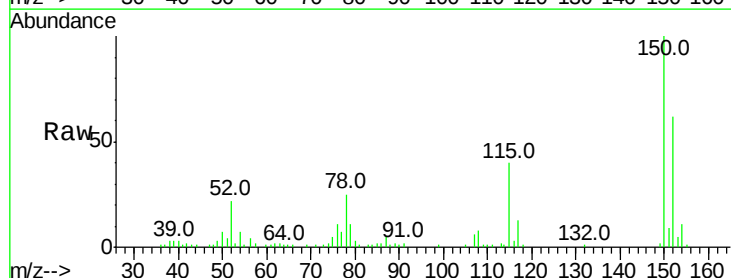
Tgt Ion: 79 Resp: 33960

Ion	Ratio	Lower	Upper
79	100		
108	73.3	65.1	97.7
77	59.2	50.6	75.8

79 100

108 73.3 65.1 97.7

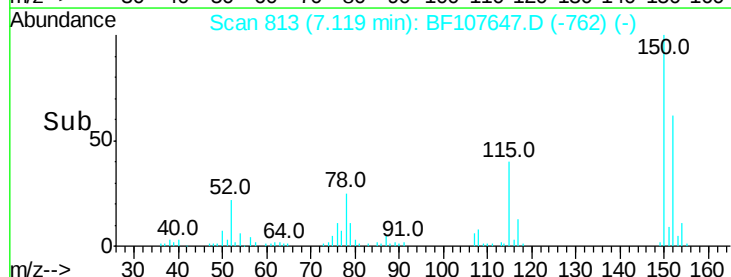
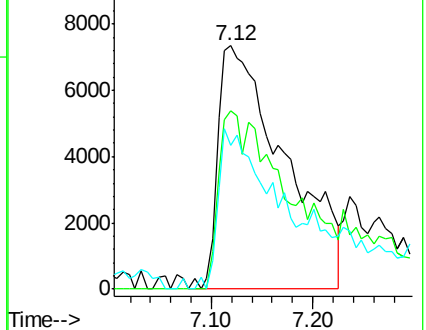
77 59.2 50.6 75.8

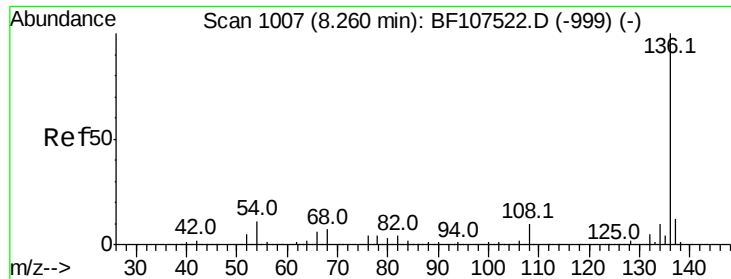


Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 108.00 (107.70 to 108.70): BF1

Ion 77.00 (76.70 to 77.70): BF1

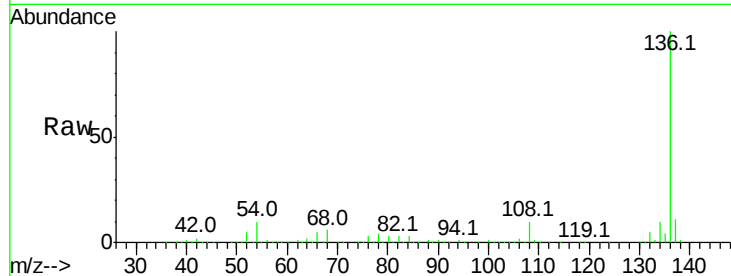




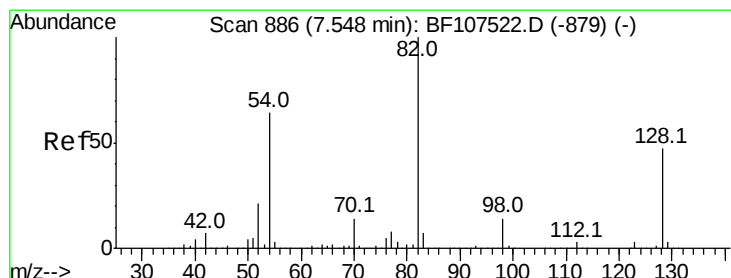
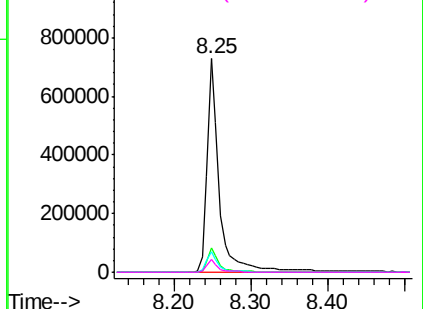
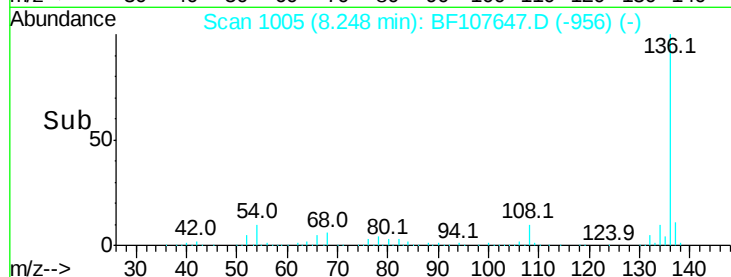
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1005
Delta R.T. -0.01 min
Lab File: BF107647.D
Acq: 25 Jul 2018 5:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	808030
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	9.8	6.6	9.8#
68	5.9	5.0	7.4

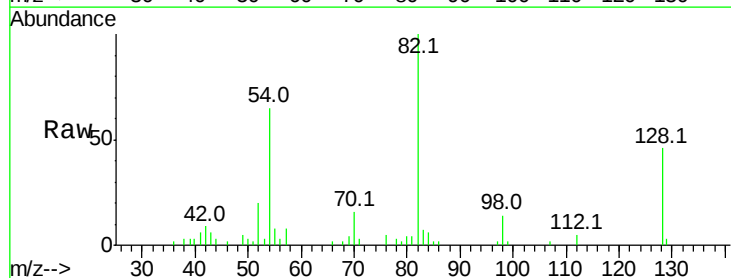


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

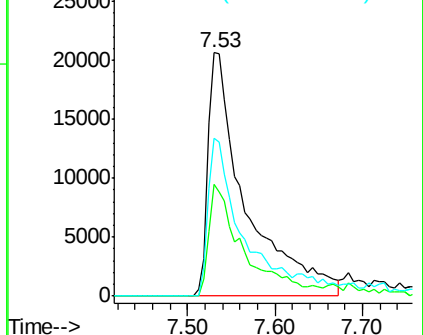
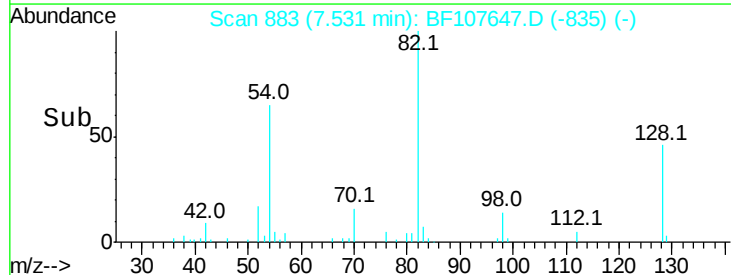


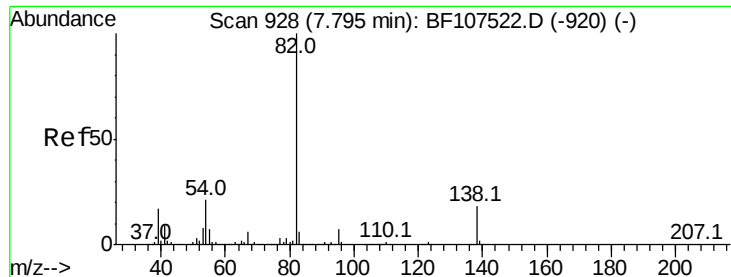
#23
Nitrobenzene-d5
Concen: 5.174 ng
RT: 7.53 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF107647.D
Acq: 25 Jul 2018 5:47

Tgt Ion:	82	Resp:	61952
Ion	Ratio	Lower	Upper
82	100		
128	45.7	36.1	54.1
54	64.7	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: 2.423 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

Instrument :

BNA_F

ClientSampled :

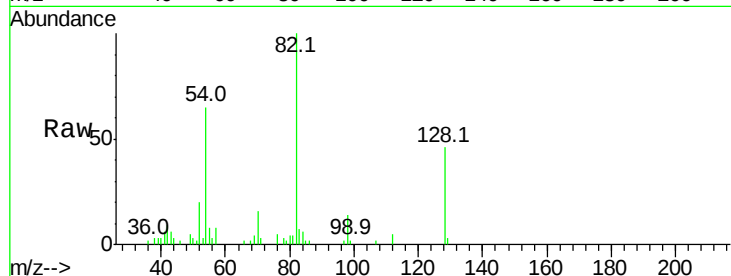
Tot Ion: 82 Resp: 61952

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

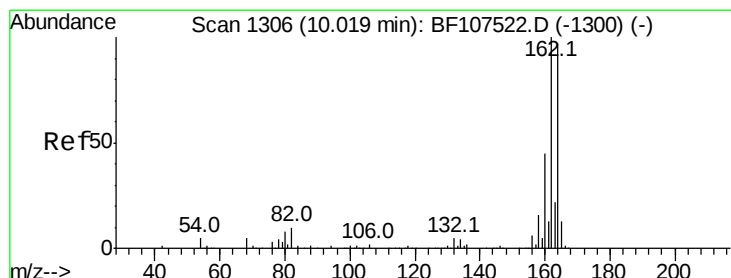
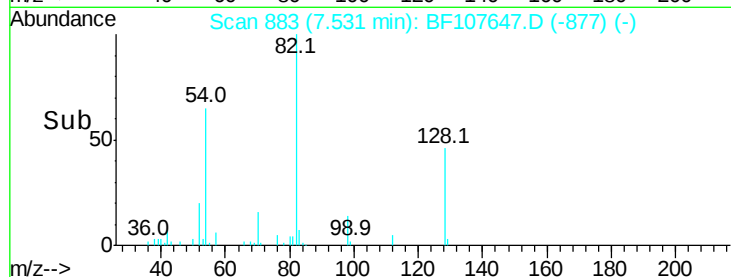
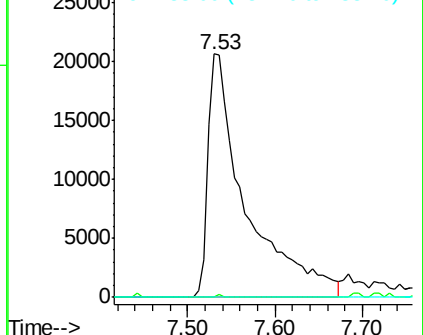
138 0.0 14.9 22.3#



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: 10.01 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

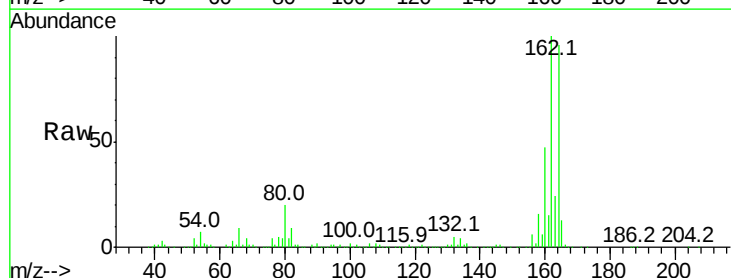
Tgt Ion:164 Resp: 321601

Ion Ratio Lower Upper

164 100

162 104.1 86.1 129.1

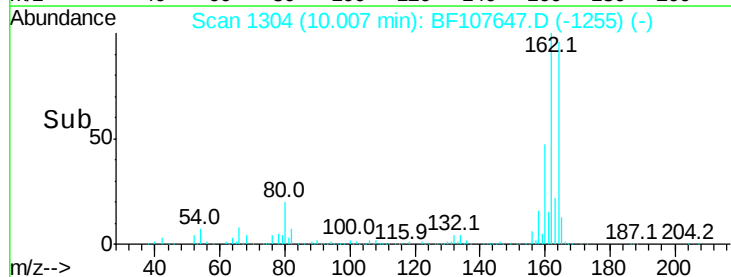
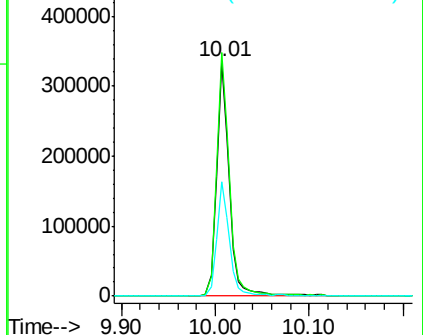
160 48.8 38.3 57.5

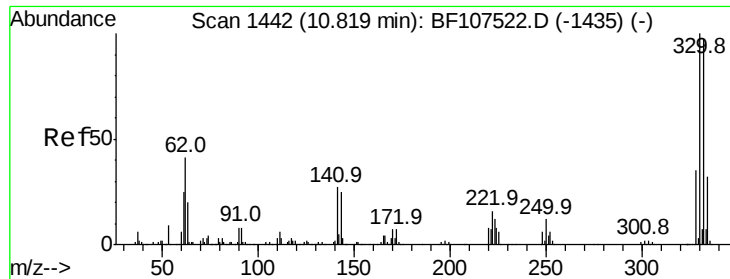


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

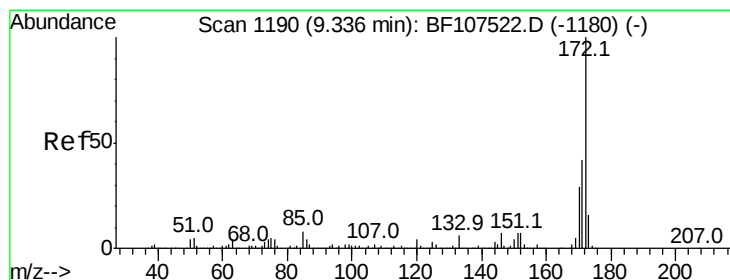
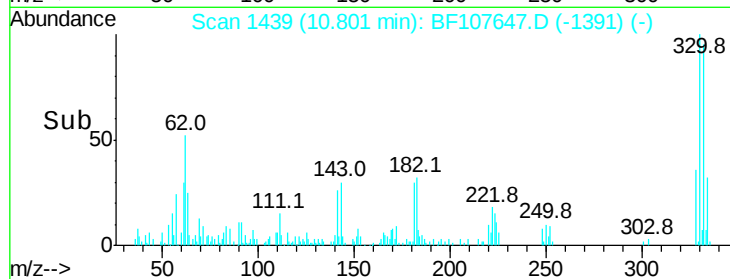
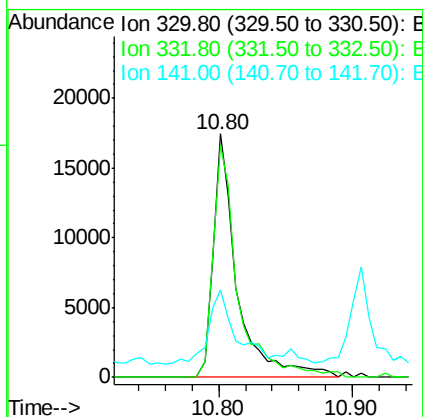
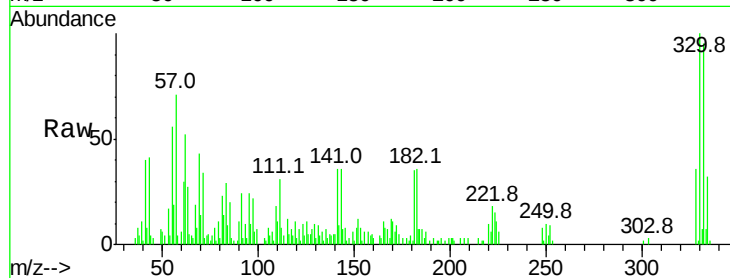




#41
 2,4,6-Tribromophenol
 Concen: 5.964 ng
 RT: 10.80 min Scan# 1439
 Delta R.T. -0.02 min
 Lab File: BF107647.D
 Acq: 25 Jul 2018 5:47

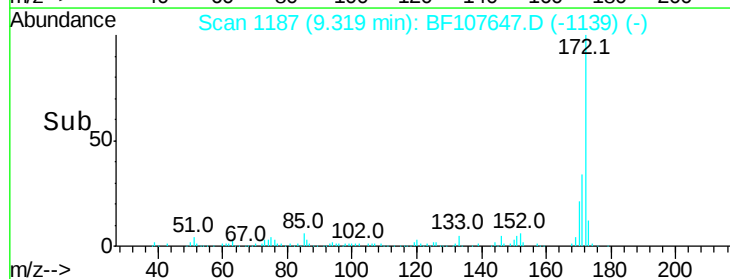
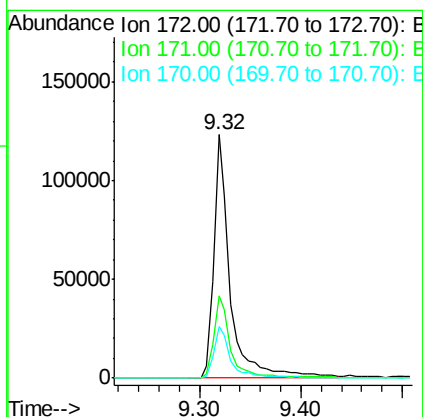
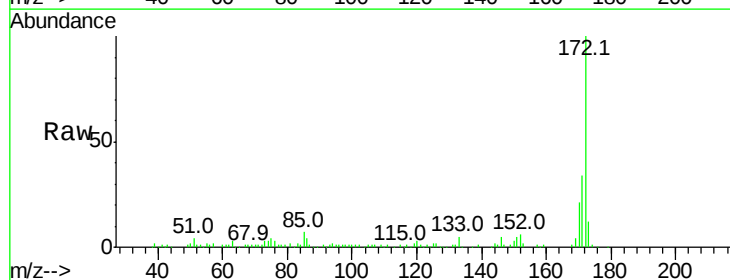
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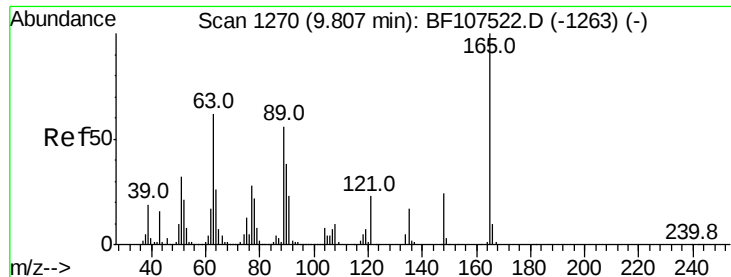
Tot Ion	Ratio	Lower	Upper
330	100		
332	100.2	77.0	115.6
141	36.2	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 1.768 ng
 RT: 9.32 min Scan# 1187
 Delta R.T. -0.02 min
 Lab File: BF107647.D
 Acq: 25 Jul 2018 5:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.9	29.7	44.5
170	21.3	19.6	29.4

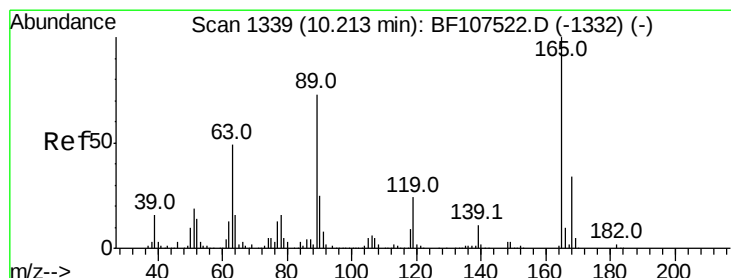
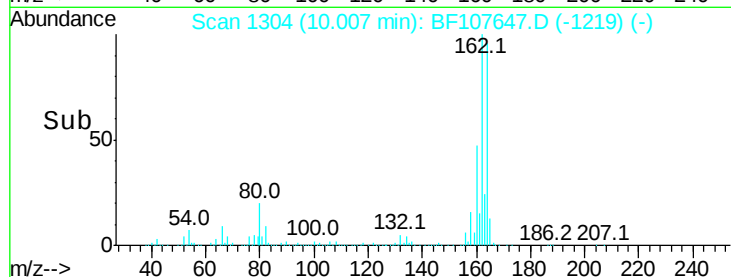
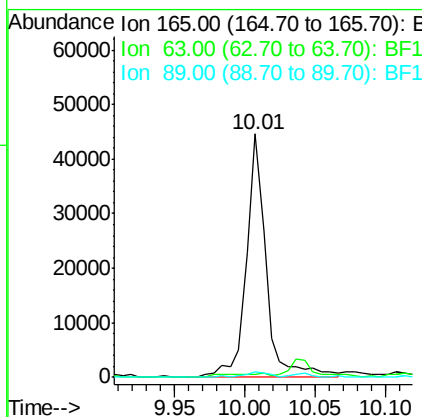
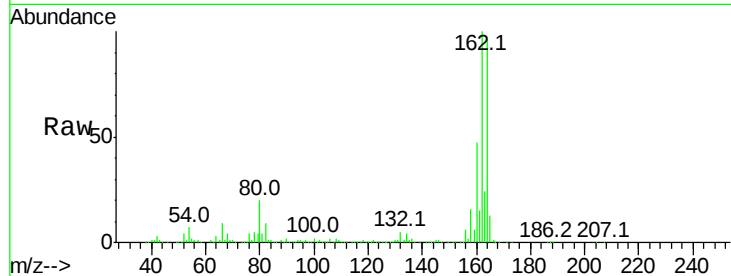




#50
2,6-Dinitrotoluene
Concen: 9.149 ng
RT: 10.01 min Scan# 1304
Delta R.T. 0.20 min
Lab File: BF107647.D
Acq: 25 Jul 2018 5:47

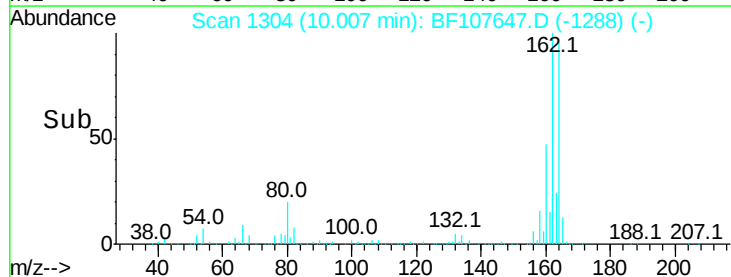
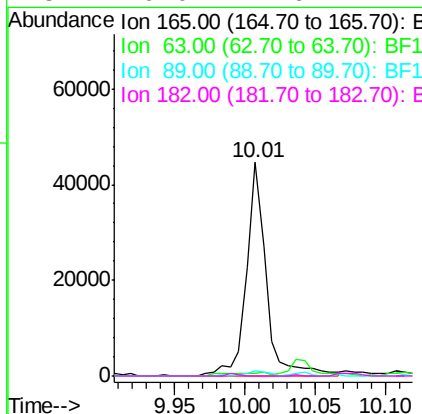
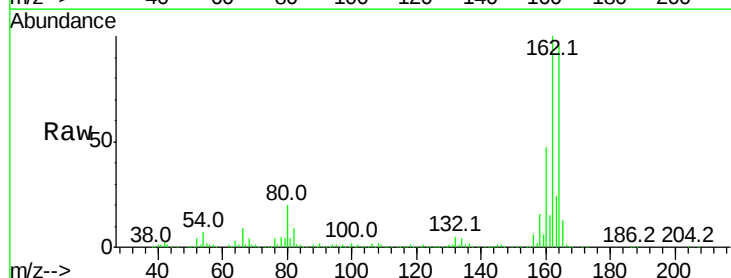
Instrument :
BNA_F
ClientSampleId :

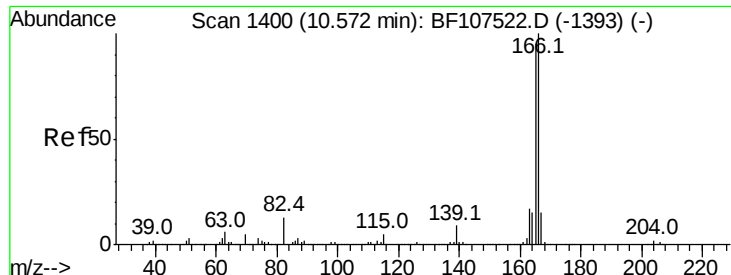
Tot Ion:165 Resp: 44026
Ion Ratio Lower Upper
165 100
63 1.3 44.7 67.1#
89 2.3 44.0 66.0#



#56
2,4-Dinitrotoluene
Concen: 7.579 ng
RT: 10.01 min Scan# 1304
Delta R.T. -0.21 min
Lab File: BF107647.D
Acq: 25 Jul 2018 5:47

Tgt Ion:165 Resp: 44026
Ion Ratio Lower Upper
165 100
63 1.3 36.4 54.6#
89 2.3 57.8 86.6#
182 0.0 1.6 2.4#

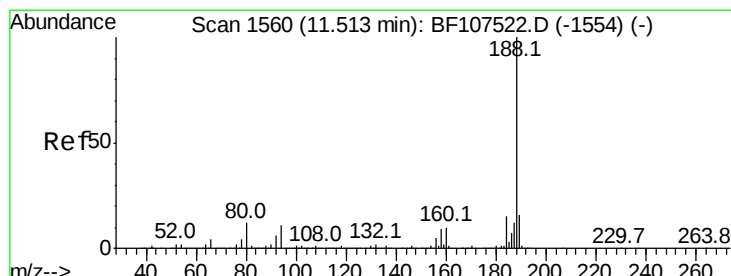
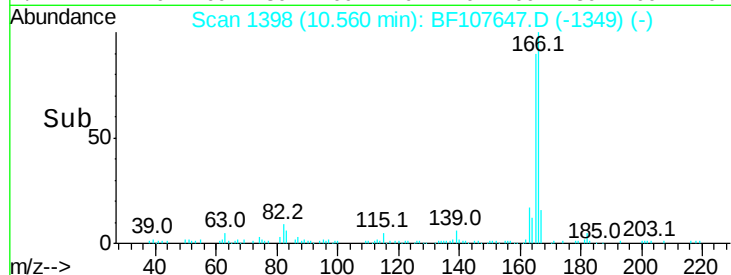
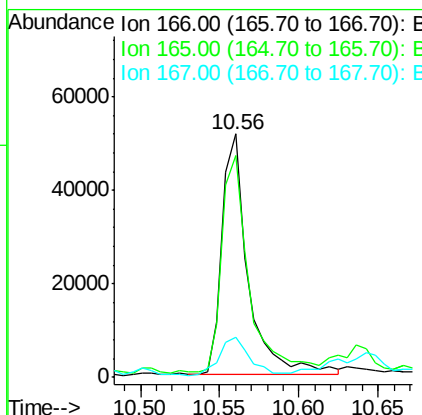
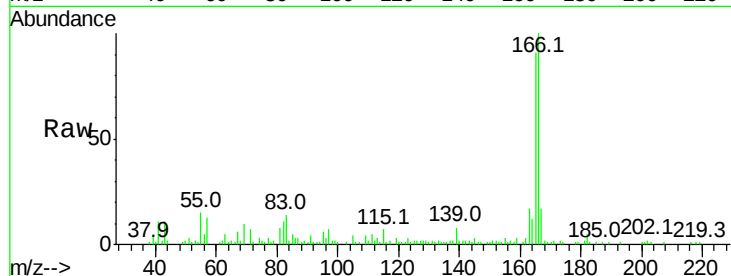




#57
 Fluorene
 Concen: 2.820 ng
 RT: 10.56 min Scan# 1398
 Delta R.T. -0.01 min
 Lab File: BF107647.D
 Acq: 25 Jul 2018 5:47

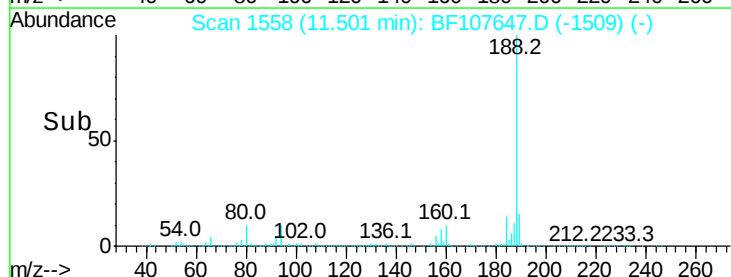
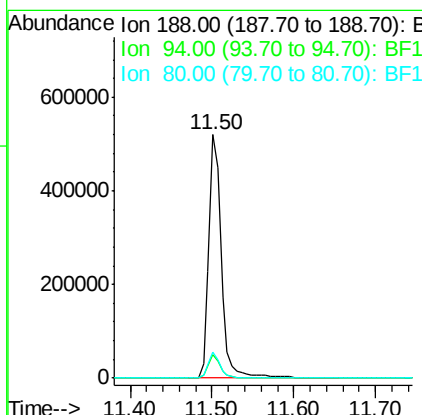
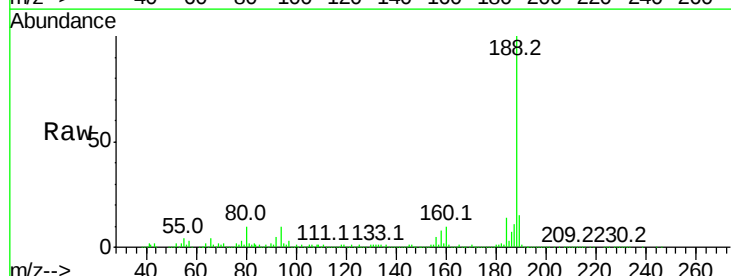
Instrument :
 BNA_F
 ClientSampleId :

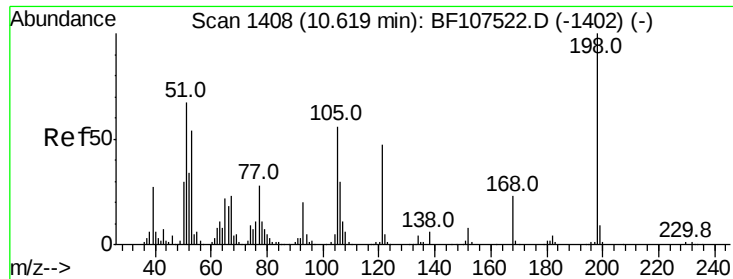
Tot Ion	Ratio	Lower	Upper
166	100		
165	90.9	79.8	119.8
167	16.6	10.6	16.0#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: BF107647.D
 Acq: 25 Jul 2018 5:47

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.5	12.7
80	10.5	9.2	13.8

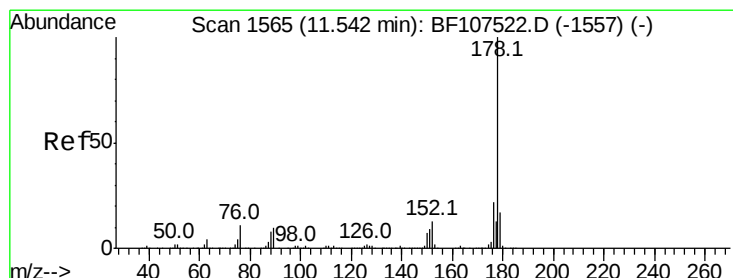
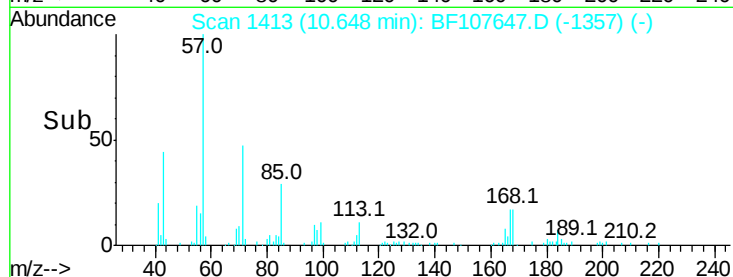
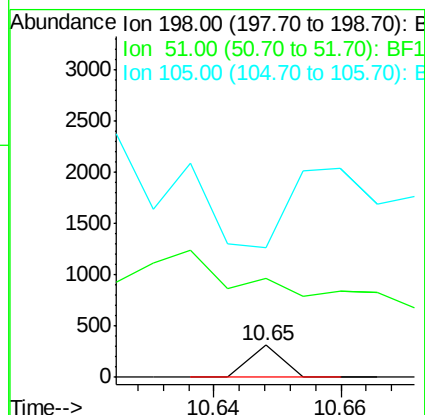
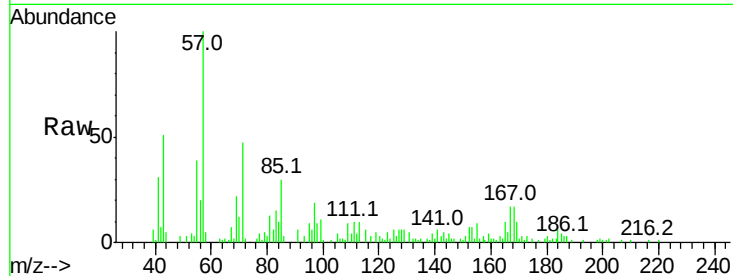




#64
4,6-Dinitro-2-methylphenol
Concen: 8.715 ng
RT: 10.65 min Scan# 1413
Delta R.T. 0.03 min
Lab File: BF107647.D
Acq: 25 Jul 2018 5:47

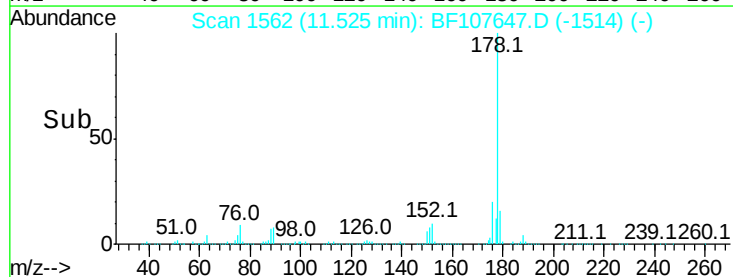
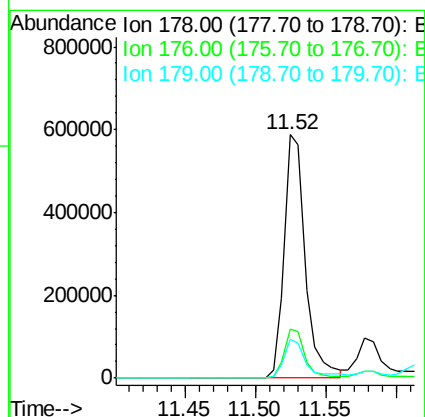
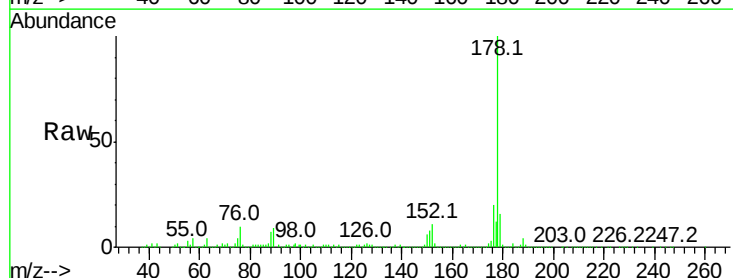
Instrument :
BNA_F
ClientSampleId :

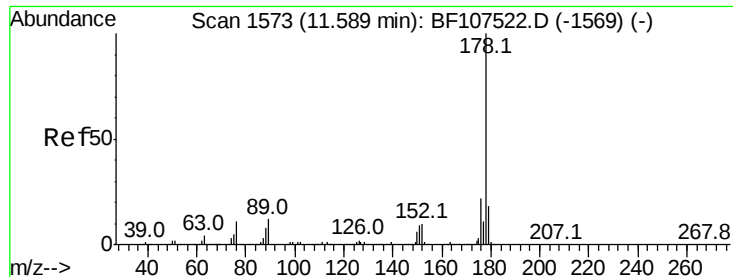
Tot Ion:198 Resp: 111
Ion Ratio Lower Upper
198 100
51 308.9 37.7 77.7#
105 403.2 36.3 76.3#



#70
Phenanthrene
Concen: 22.593 ng
RT: 11.52 min Scan# 1562
Delta R.T. -0.02 min
Lab File: BF107647.D
Acq: 25 Jul 2018 5:47

Tgt Ion:178 Resp: 611731
Ion Ratio Lower Upper
178 100
176 19.9 15.8 23.8
179 16.0 13.0 19.6





#71

Anthracene

Concen: 5.491 ng

RT: 11.58 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

Instrument :

BNA_F

ClientSampleId :

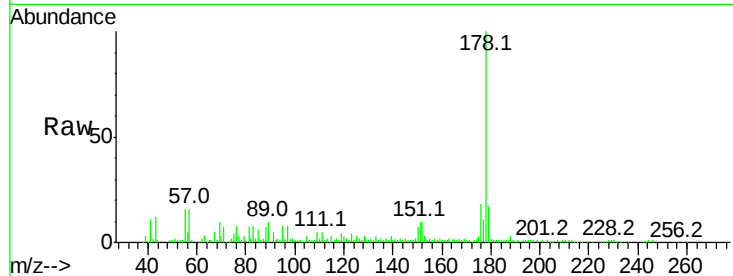
Tot Ion:178 Resp: 149686

Ion Ratio Lower Upper

178 100

176 17.9 15.4 23.2

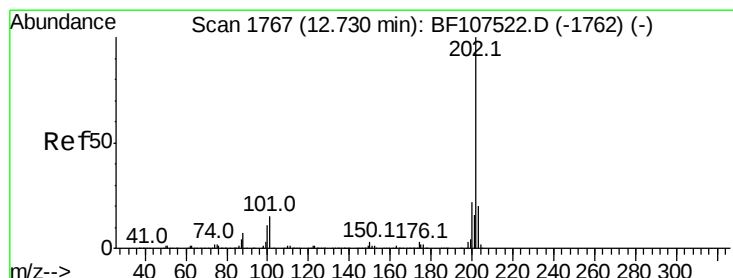
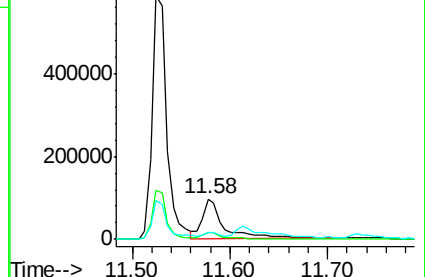
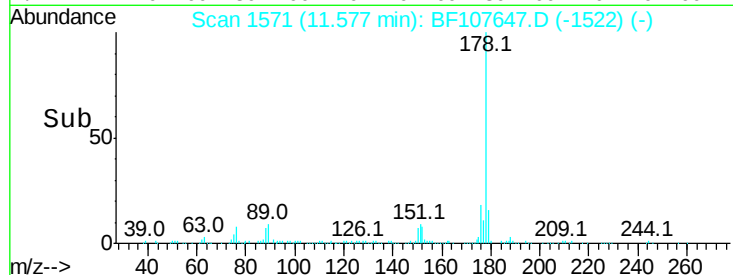
179 17.1 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 39.920 ng

RT: 12.72 min Scan# 1766

Delta R.T. -0.01 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

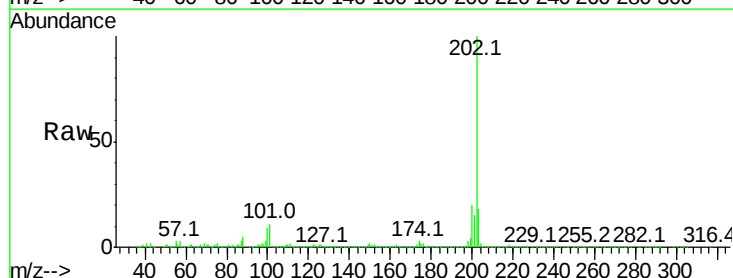
Tgt Ion:202 Resp: 1159868

Ion Ratio Lower Upper

202 100

101 11.4 0.0 34.1

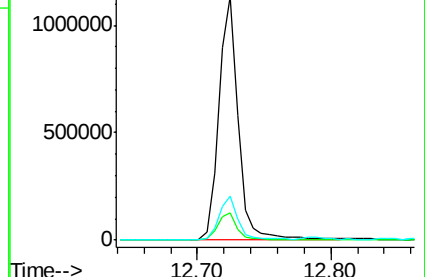
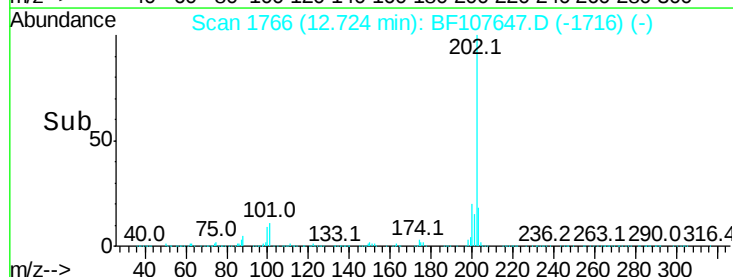
203 18.0 0.0 38.1

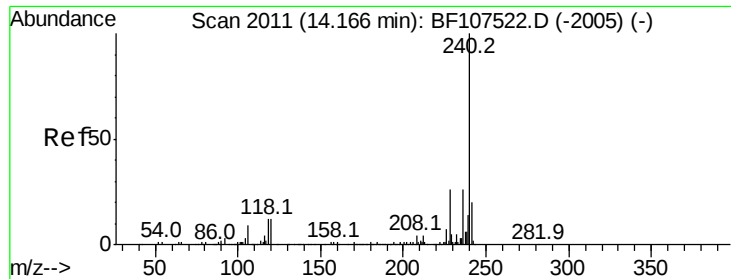


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.15 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

Instrument :

BNA_F

ClientSampleId :

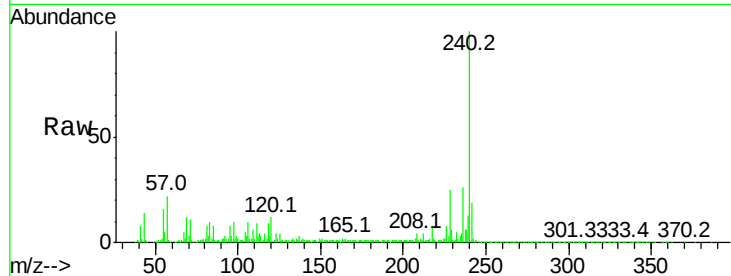
Tot Ion:240 Resp: 388882

Ion Ratio Lower Upper

240 100

120 11.8 9.5 14.3

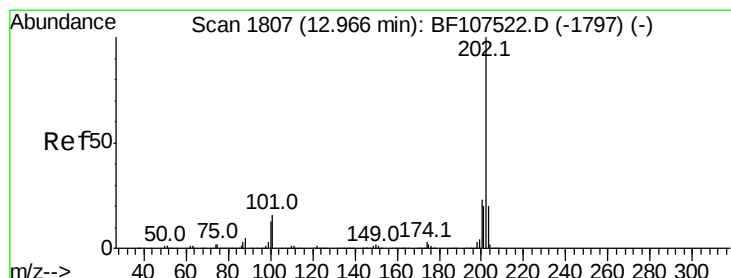
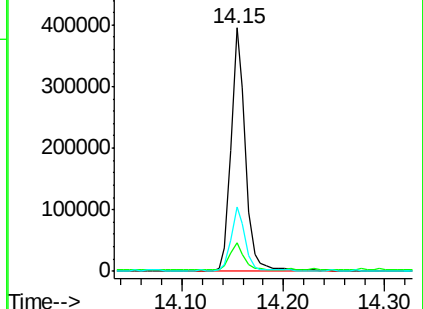
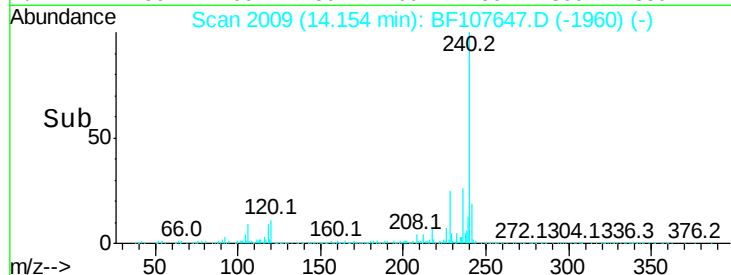
236 26.2 20.7 31.1



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: 32.878 ng

RT: 12.95 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

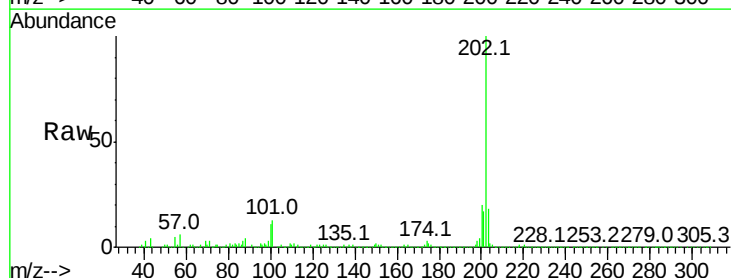
Tgt Ion:202 Resp: 874540

Ion Ratio Lower Upper

202 100

200 20.0 17.4 26.2

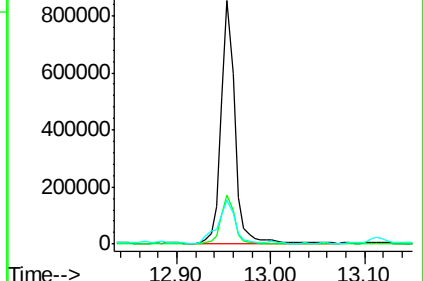
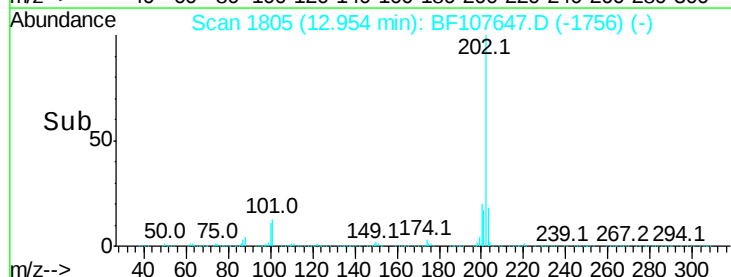
203 18.2 14.3 21.5

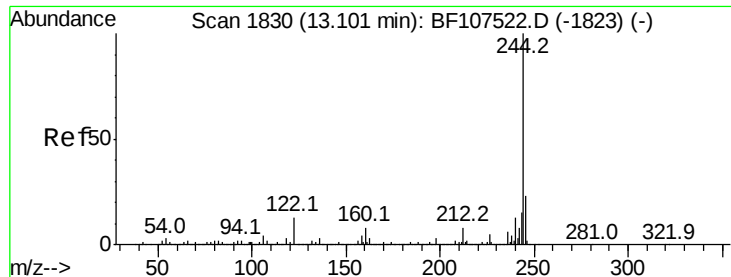


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 7.403 ng

RT: 13.08 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

Instrument :

BNA_F

ClientSampleId :

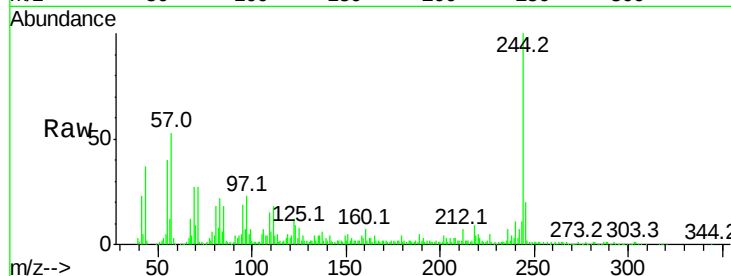
Tot Ion:244 Resp: 112458

Ion Ratio Lower Upper

244 100

212 7.5 5.4 8.0

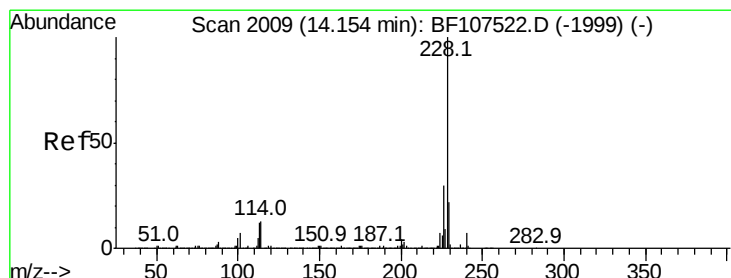
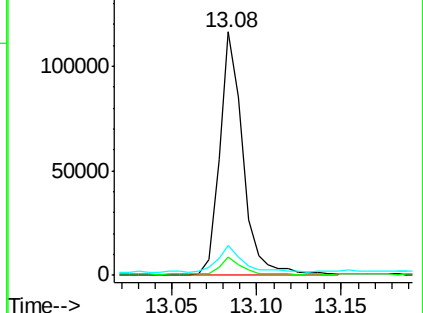
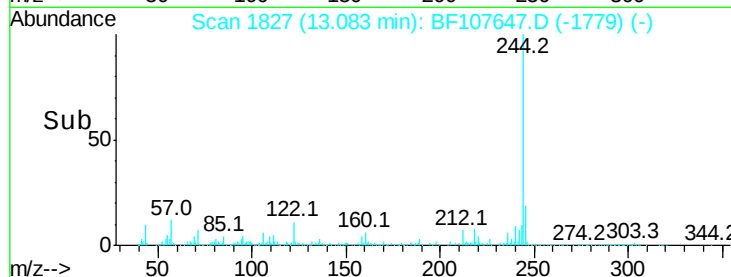
122 12.1 11.0 16.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 12.206 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

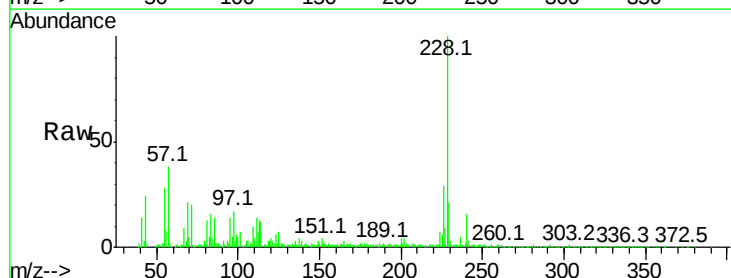
Tgt Ion:228 Resp: 278161

Ion Ratio Lower Upper

228 100

226 29.2 22.6 33.8

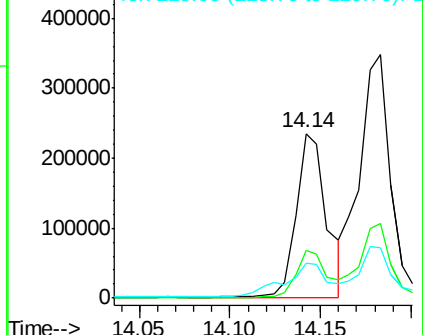
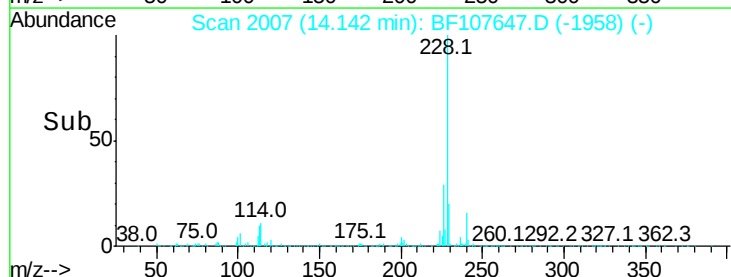
229 21.3 15.8 23.6

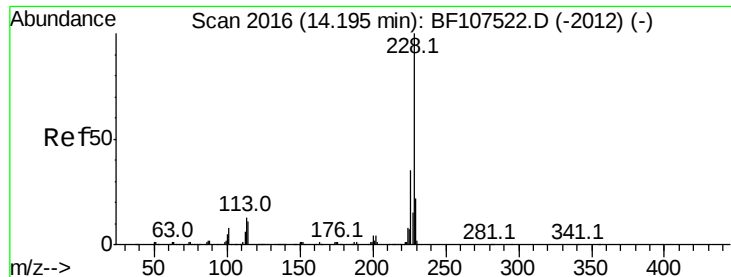


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 19.310 ng

RT: 14.18 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

Instrument :

BNA_F

ClientSampleId :

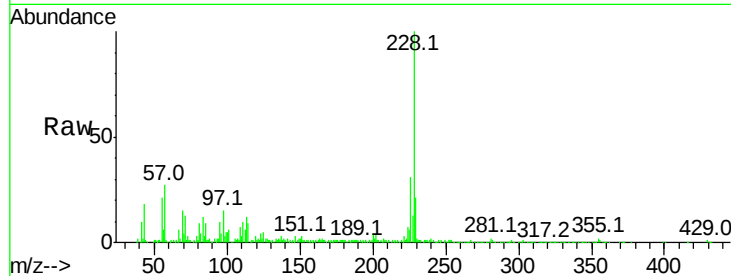
Tot Ion:228 Resp: 422728

Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.6

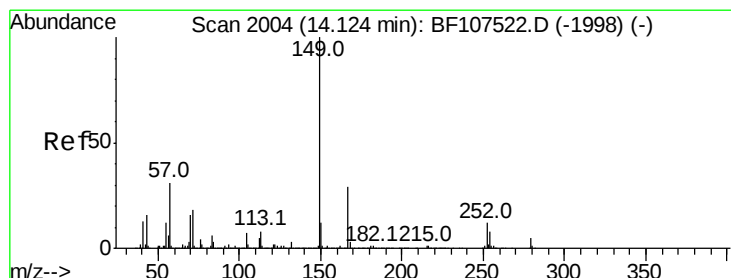
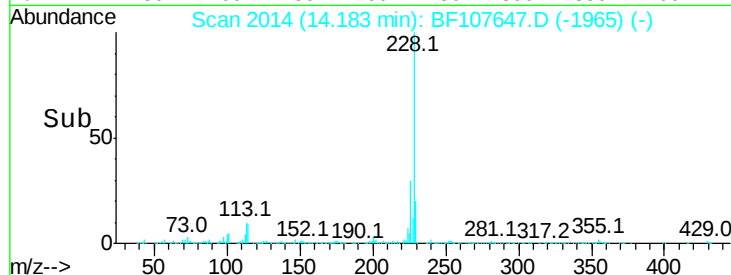
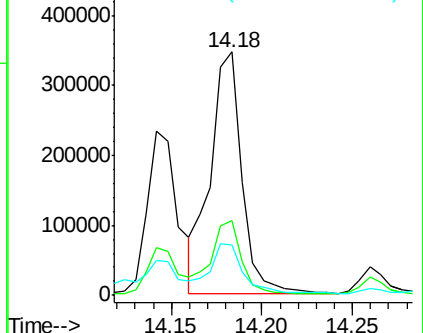
229 20.7 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 13.973 ng

RT: 14.11 min Scan# 2001

Delta R.T. -0.02 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

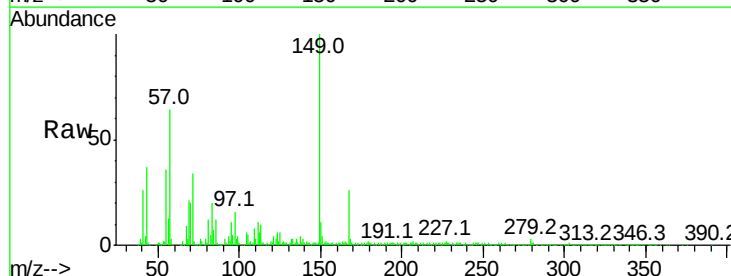
Tgt Ion:149 Resp: 225540

Ion Ratio Lower Upper

149 100

167 26.2 21.3 31.9

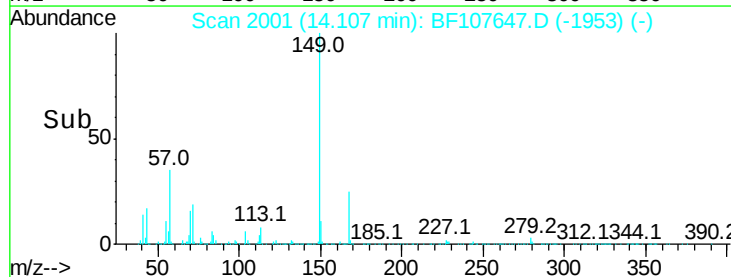
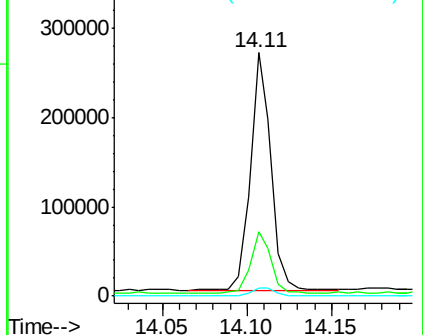
279 3.5 3.0 4.4

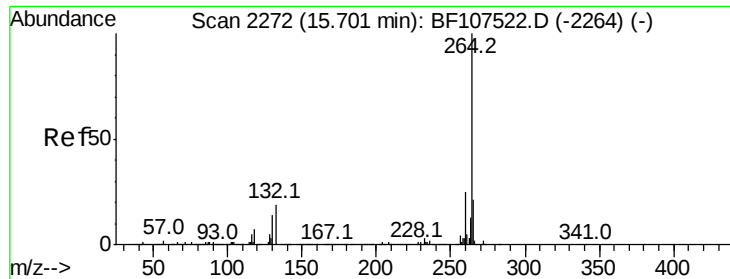


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.69 min Scan# 2270

Delta R.T. -0.01 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

Instrument :

BNA_F

ClientSampleId :

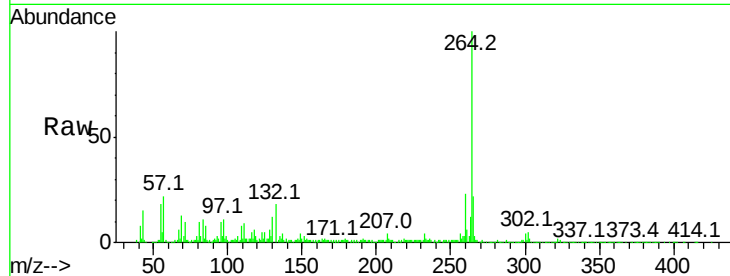
Tot Ion:264 Resp: 339076

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	21.7	17.5	26.3

264 100

260 23.5 19.2 28.8

265 21.7 17.5 26.3

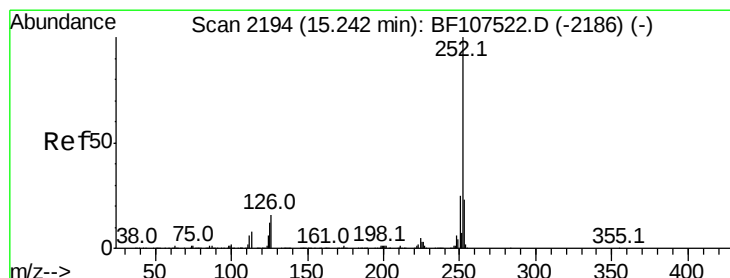
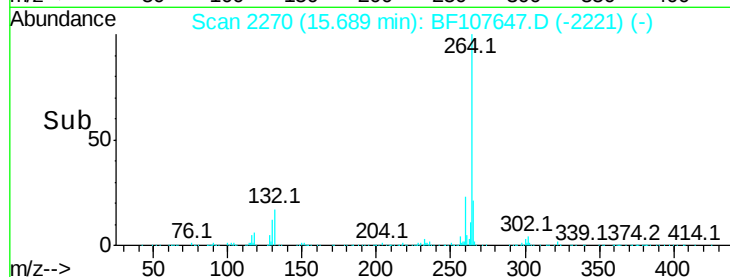
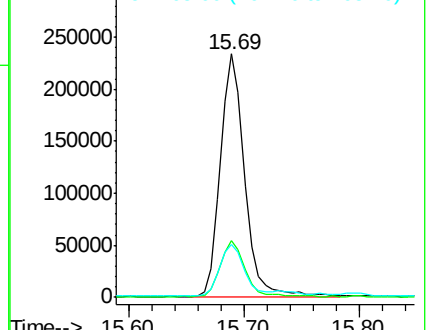


Abundance

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: 31.680 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

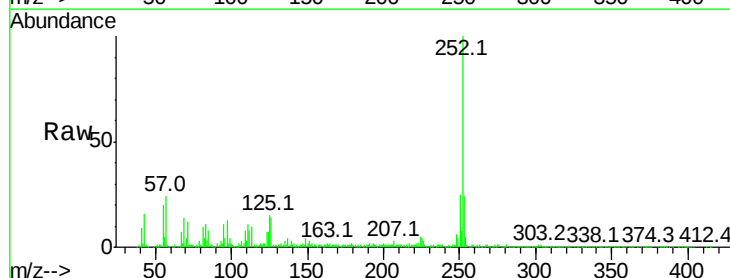
Tgt Ion:252 Resp: 587890

Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.0	25.6
125	15.3	9.0	13.6

252 100

253 24.4 17.0 25.6

125 15.3 9.0 13.6#

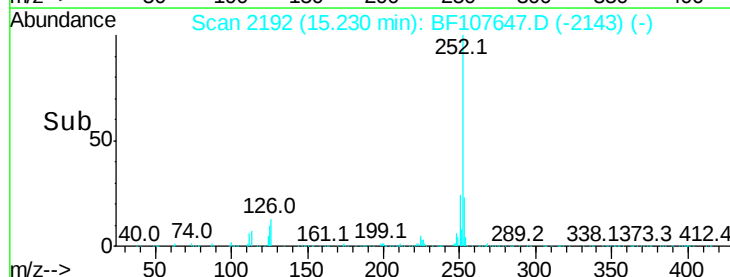
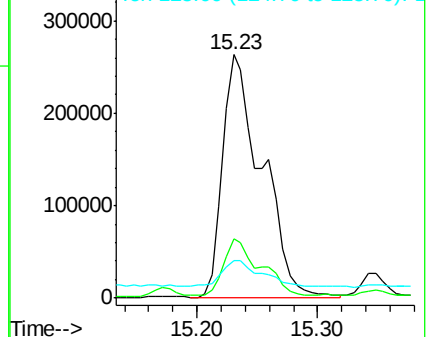


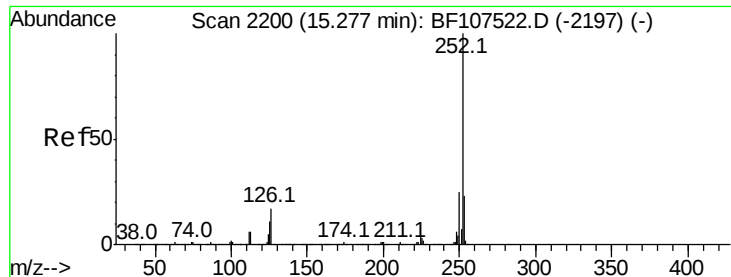
Abundance

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

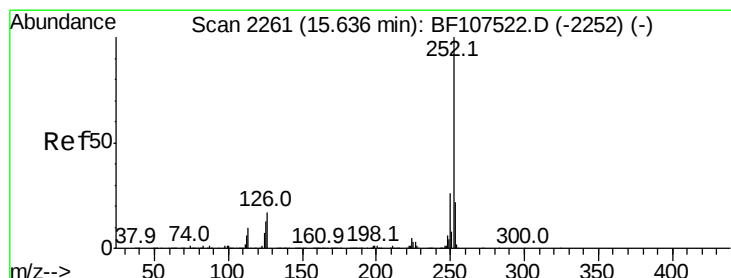
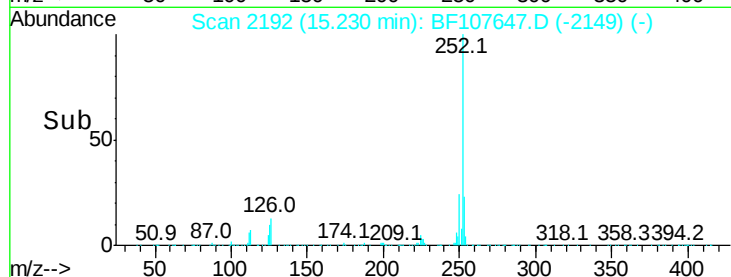
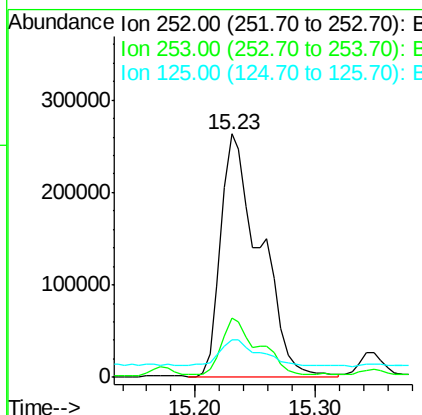
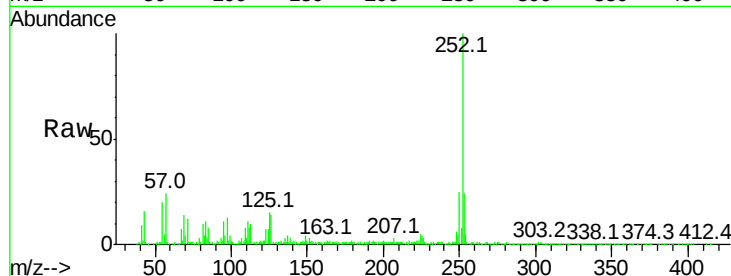




#88
Benzo(k)fluoranthene
Concen: 32.335 ng
RT: 15.23 min Scan# 2192
Delta R.T. -0.05 min
Lab File: BF107647.D
Acq: 25 Jul 2018 5:47

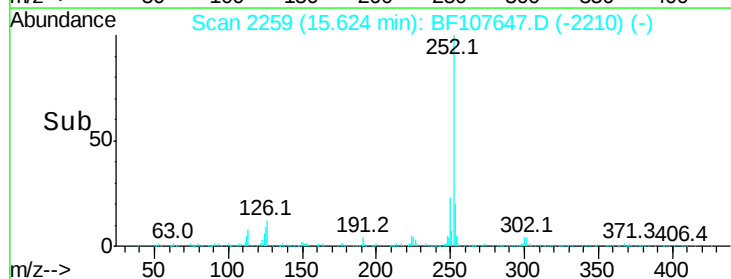
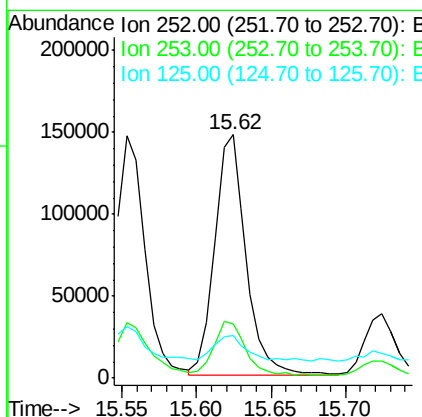
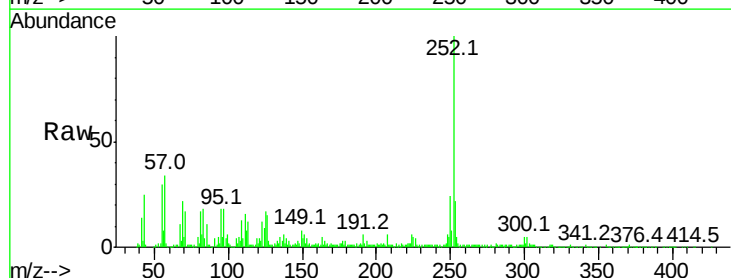
Instrument :
BNA_F
ClientSampleId :

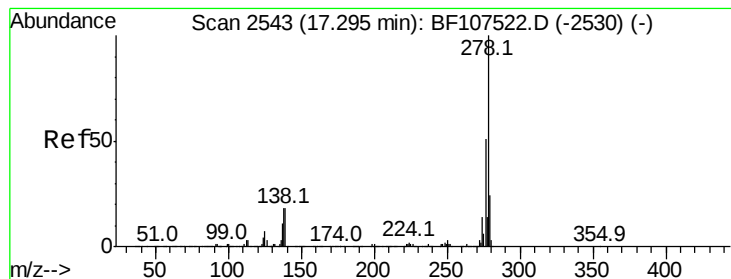
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	15.3	10.2	15.2



#89
Benzo(a)pyrene
Concen: 12.876 ng
RT: 15.62 min Scan# 2259
Delta R.T. -0.01 min
Lab File: BF107647.D
Acq: 25 Jul 2018 5:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7
125	17.4	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.135 ng

RT: 17.27 min Scan# 2538

Delta R.T. -0.03 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

Instrument :

BNA_F

ClientSampleId :

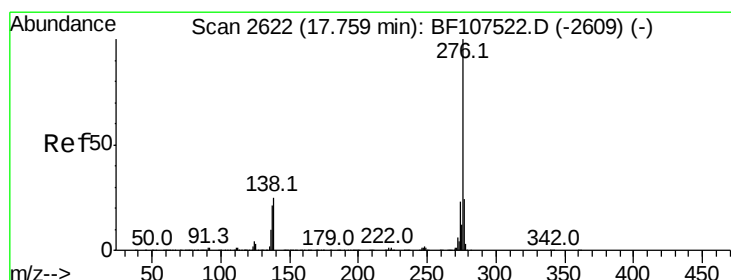
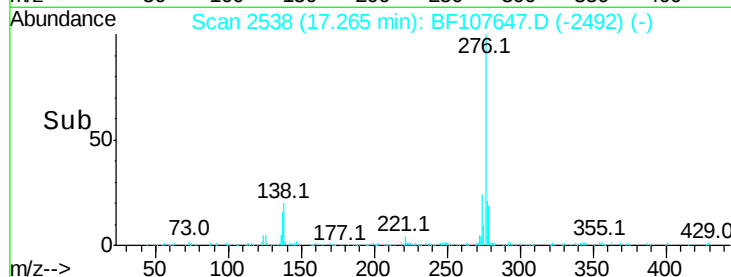
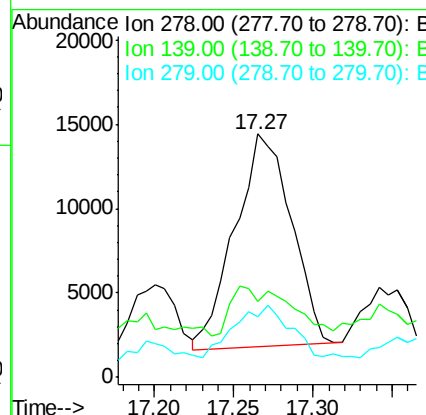
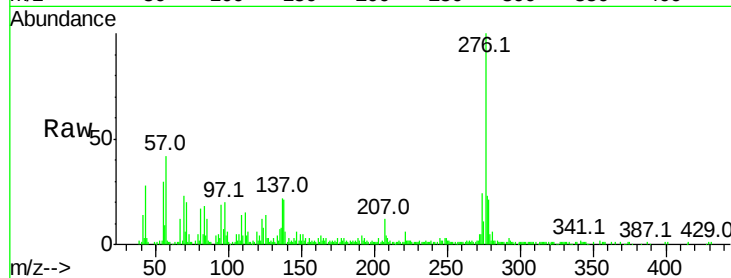
Tot Ion:278 Resp: 31322

Ion Ratio Lower Upper

278 100

139 30.9 15.9 23.9#

279 25.1 19.0 28.4



#91

Benzo(g,h,i)perylene

Concen: 10.666 ng

RT: 17.74 min Scan# 2619

Delta R.T. -0.02 min

Lab File: BF107647.D

Acq: 25 Jul 2018 5:47

Tgt Ion:276 Resp: 154374

Ion Ratio Lower Upper

276 100

277 23.7 17.9 26.9

138 24.0 21.8 32.8

