

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
 Data File : BF107712.D
 Acq On : 26 Jul 2018 20:54
 Operator : JU/SJ
 Sample : J4109-03 10X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(3-5)

Quant Time: Jul 27 01:14:19 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	6.96	152	169539	20.00	ng	-0.02
21) Naphthalene-d8	8.24	136	742978	20.00	ng	-0.02
38) Acenaphthene-d10	10.00	164	341577	20.00	ng	-0.02
63) Phenanthrene-d10	11.49	188	603626	20.00	ng	-0.02
75) Chrysene-d12	14.15	240	431118	20.00	ng	-0.02
86) Perylene-d12	15.68	264	500842	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.63	112	16275	1.54	ng	0.02
7) Phenol-d6	6.62	99	87963	6.95	ng	0.00
23) Nitrobenzene-d5	7.54	82	57904	5.26	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	31777	8.18	ng	-0.02
44) 2-Fluorobiphenyl	9.31	172	134395	1.22	ng	-0.02
78) Terphenyl-d14	13.08	244	103662	6.16	ng	-0.02

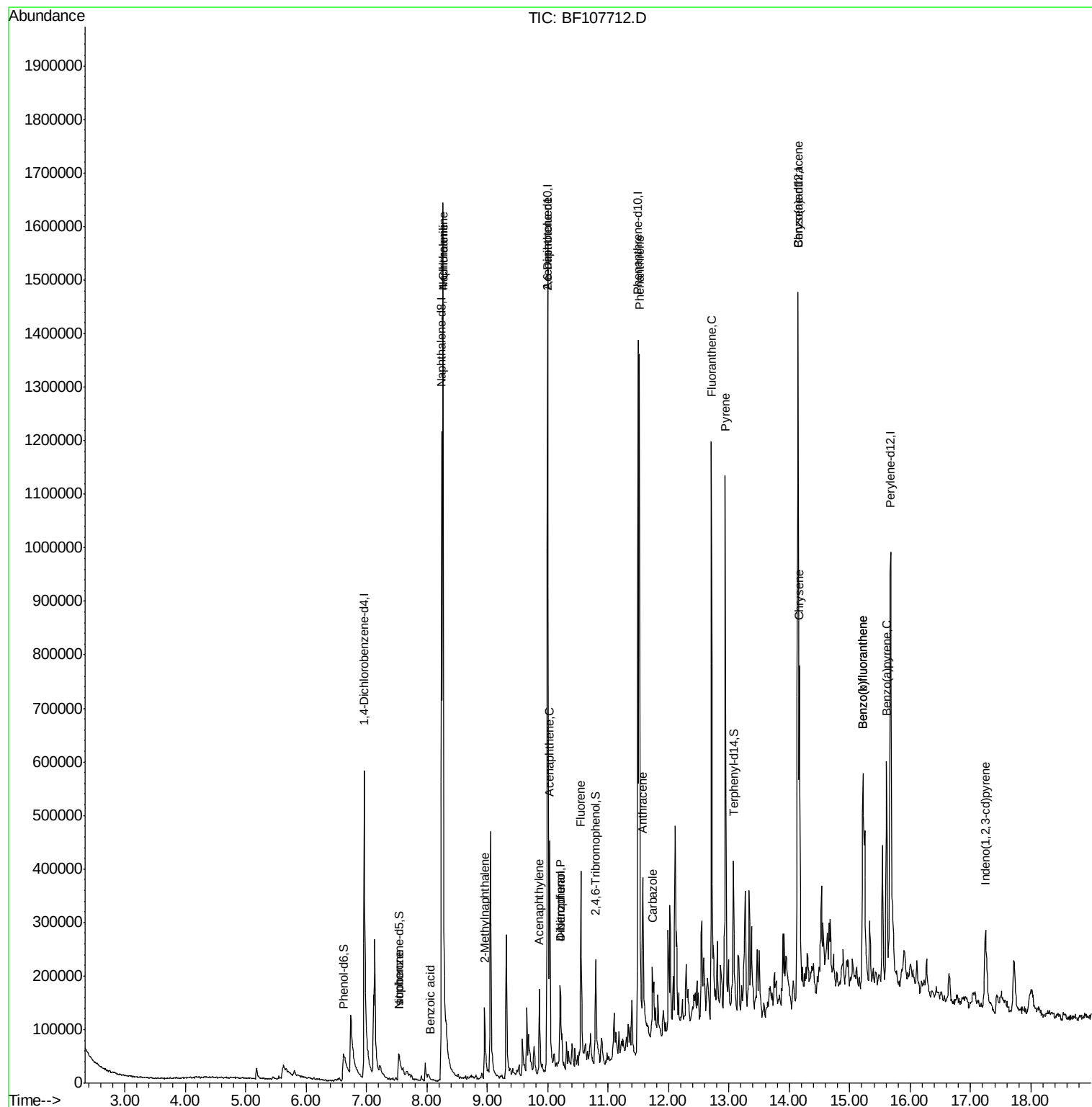
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.51	77	227	Below Cal	#	1
25) Isophorone	7.54	82	57904	2.463	ng	64
31) Naphthalene	8.27	128	939734	28.763	ng	99
32) Benzoic acid	8.07	122	160	7.919	ng	32
33) 4-Chloroaniline	8.27	127	121139	8.483	ng	34
37) 2-Methylnaphthalene	8.95	142	65864	2.909	ng	95
48) Acenaphthylene	9.87	152	88273	2.584	ng	99
50) 2,6-Dinitrotoluene	10.00	165	45396	8.882	ng	26
51) Acenaphthene	10.03	154	102852	4.805	ng	96
54) Dibenzofuran	10.21	168	101111	3.208	ng	95
55) 4-Nitrophenol	10.21	139	37345	8.022	ng	12
57) Fluorene	10.55	166	167410	7.446	ng	96
70) Phenanthrene	11.52	178	527473	17.932	ng	98
71) Anthracene	11.57	178	204572	6.907	ng	97
72) Carbazole	11.74	167	93928	3.050	ng	98
73) Di-n-butylphthalate	12.04	149	1861	Below Cal	#	1
74) Fluoranthene	12.71	202	514992	16.316	ng	96
77) Pyrene	12.94	202	498528	16.906	ng	98
80) Benzo(a)anthracene	14.14	228	284508	11.261	ng	93
81) 3,3'-Dichlorobenzidine	14.09	252	295	Below Cal	#	12
82) Chrysene	14.17	228	249665	10.287	ng	98
85) Indeno(1,2,3-cd)pyrene	17.24	276	115039	5.593	ng	89
87) Benzo(b)fluoranthene	15.22	252	397239	14.492	ng	99
88) Benzo(k)fluoranthene	15.22	252	397239	14.792	ng	98
89) Benzo(a)pyrene	15.61	252	260187	10.377	ng	97

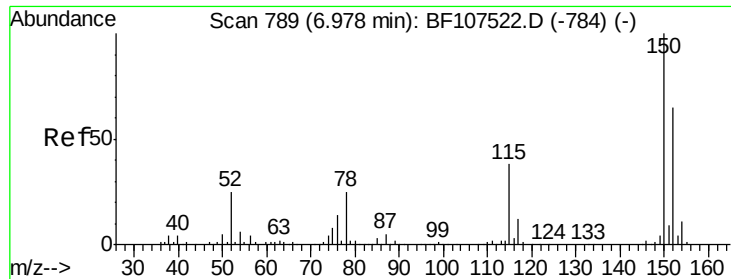
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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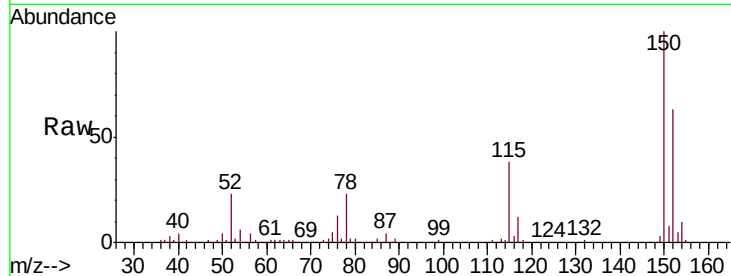


#1

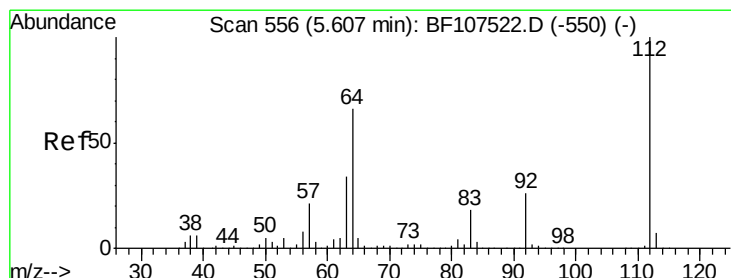
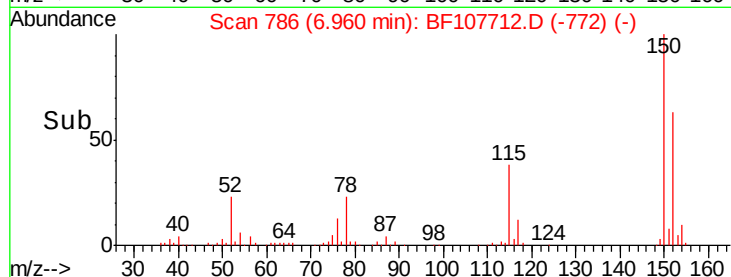
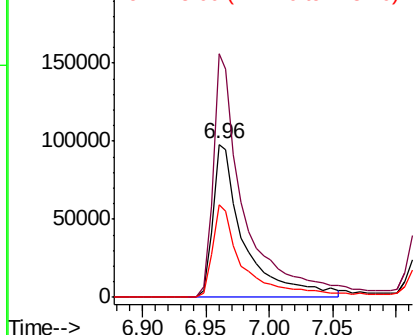
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

Tgt Ion:152 Resp: 169539
Ion Ratio Lower Upper
152 100
150 159.3 124.6 186.8
115 60.2 50.1 75.1



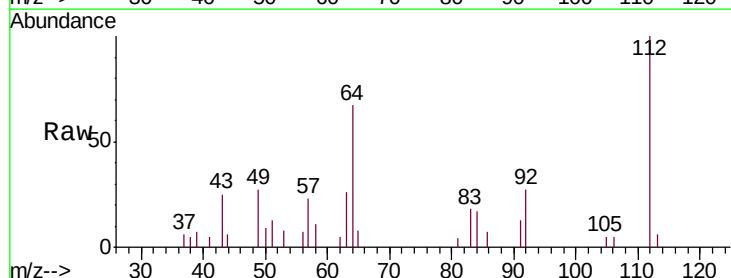
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



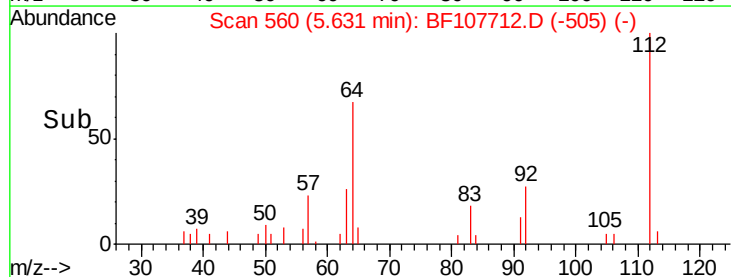
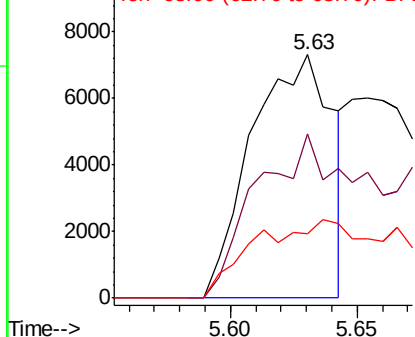
#5

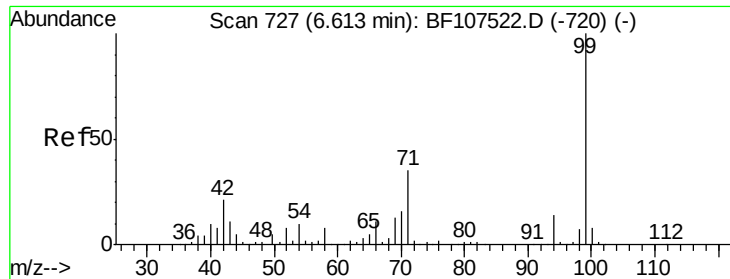
2-Fluorophenol
Concen: 1.543 ng
RT: 5.63 min Scan# 560
Delta R.T. 0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion:112 Resp: 16275
Ion Ratio Lower Upper
112 100
64 67.5 47.9 71.9
63 26.4 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: 6.947 ng

RT: 6.62 min Scan# 728

Delta R.T. 0.01 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Instrument :

BNA_F

ClientSampleId :

SB-12(3-5)

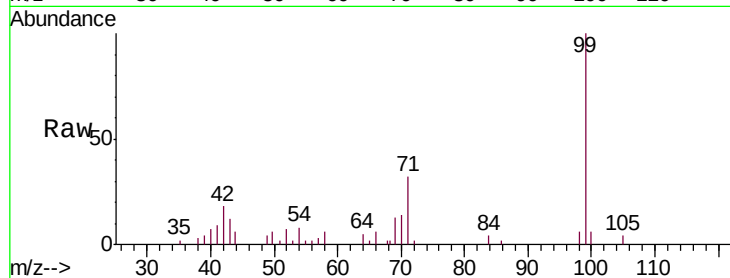
Tgt Ion: 99 Resp: 87963

Ion Ratio Lower Upper

99 100

42 18.2 14.5 21.7

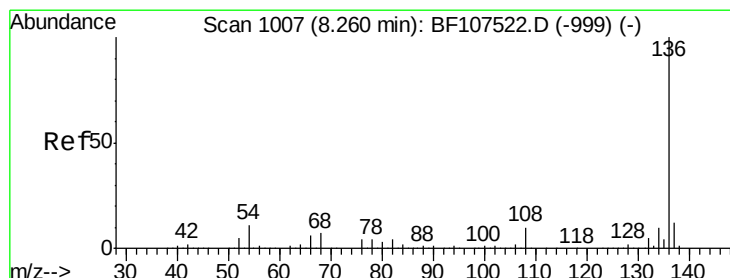
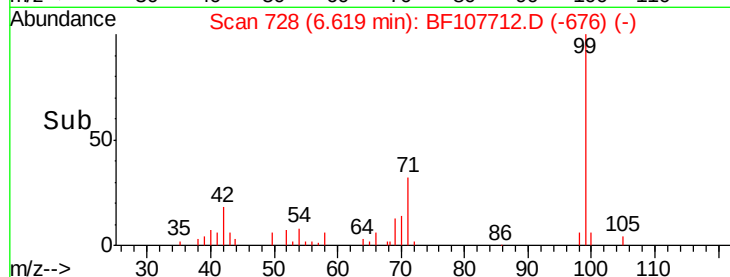
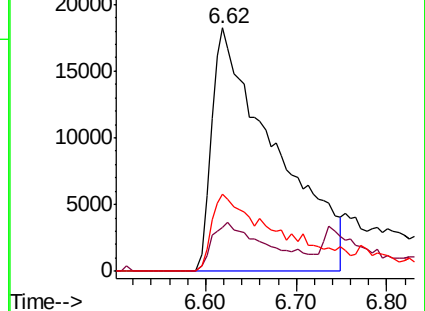
71 31.9 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1004

Delta R.T. -0.02 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Tgt Ion: 136 Resp: 742978

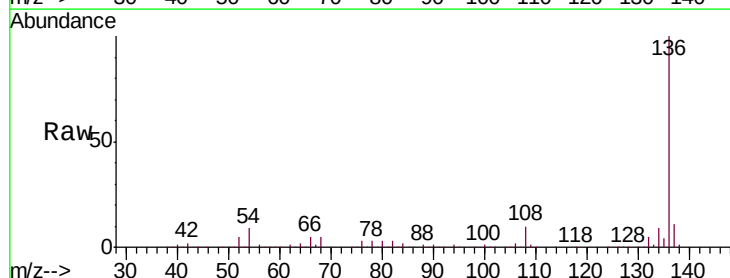
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 9.4 6.6 9.8

68 5.2 5.0 7.4

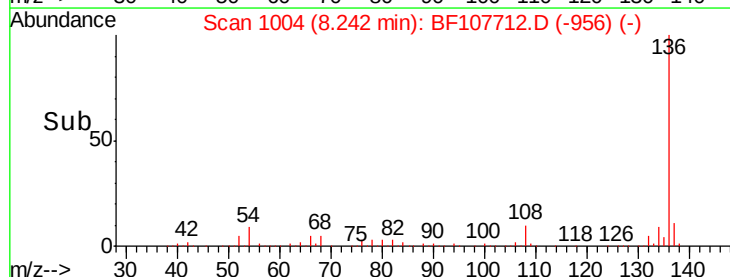
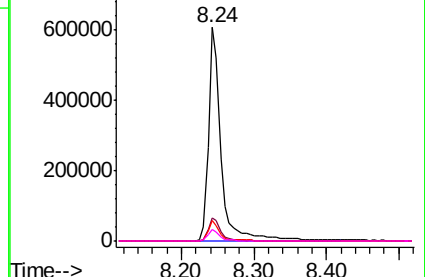


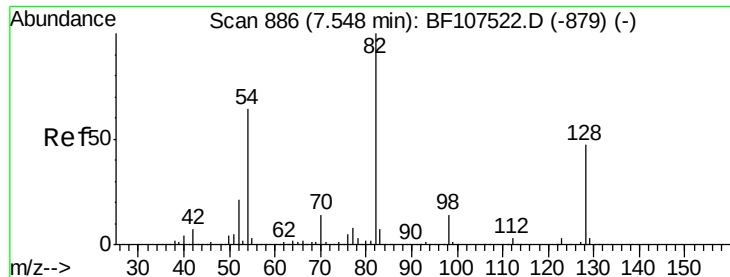
Abundance Ion 136.00 (135.70 to 136.70): E

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

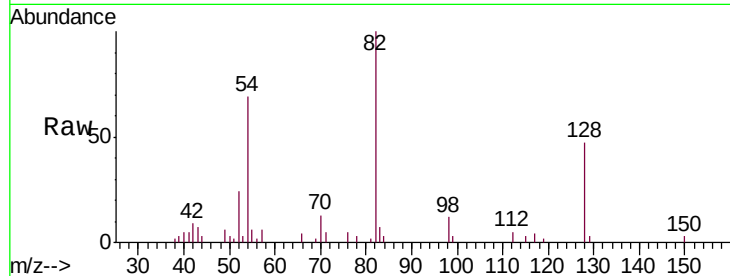




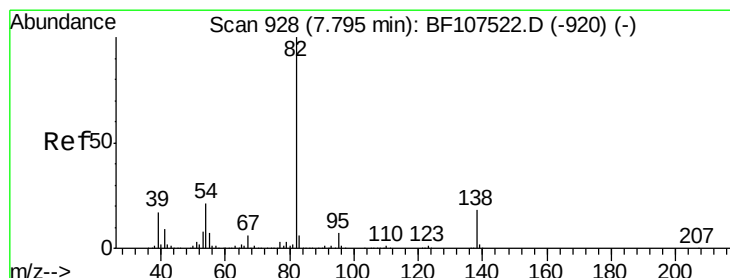
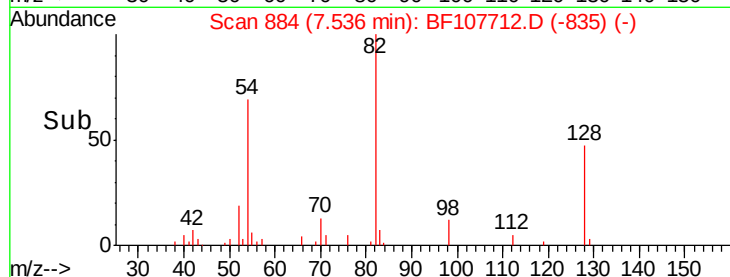
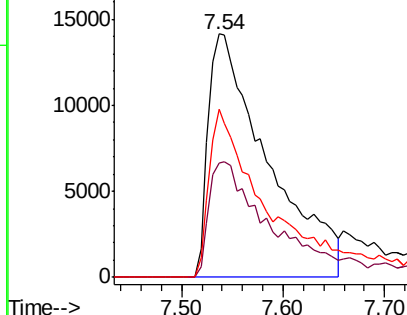
#23
 Nitrobenzene-d5
 Concen: 5.260 ng
 RT: 7.54 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Instrument :
 BNA_F
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 SB-12(3-5)

Tgt Ion: 82 Resp: 57904
 Ion Ratio Lower Upper
 82 100
 128 47.0 36.1 54.1
 54 69.3 41.4 62.2#

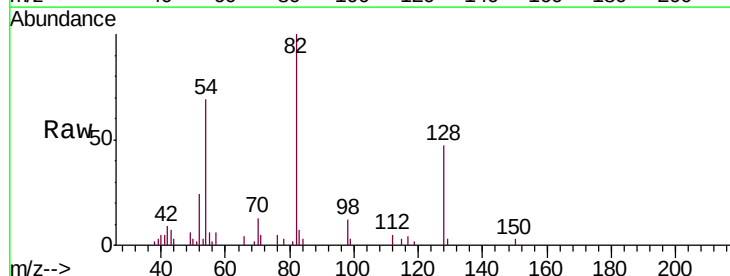


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

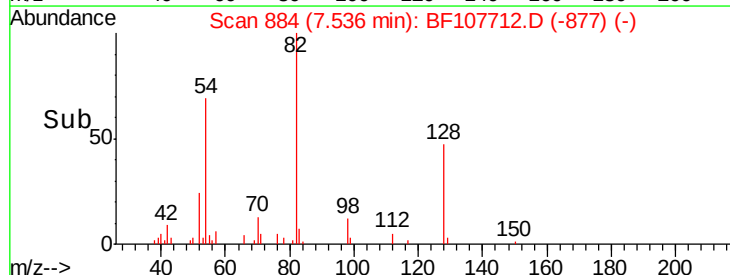
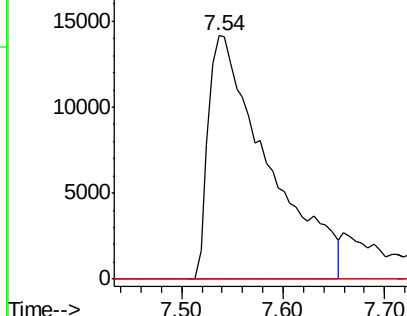


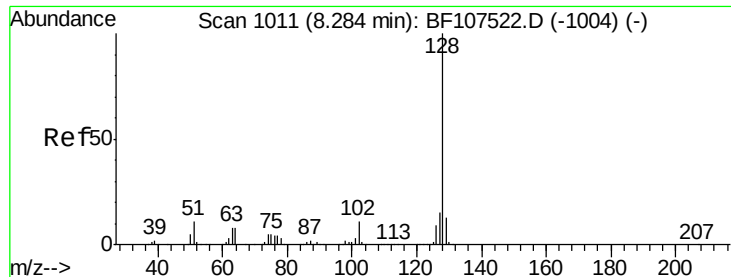
#25
 Isophorone
 Concen: 2.463 ng
 RT: 7.54 min Scan# 884
 Delta R.T. -0.26 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Tgt Ion: 82 Resp: 57904
 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

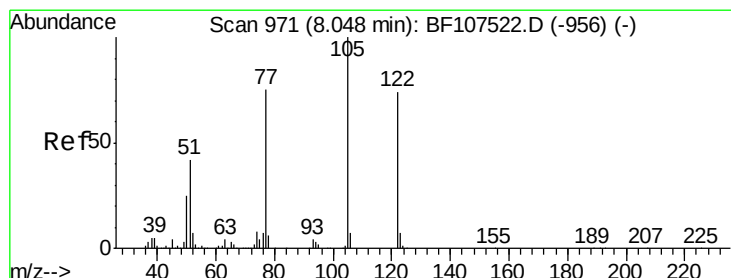
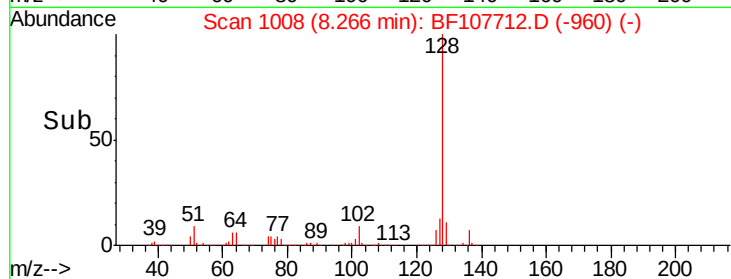
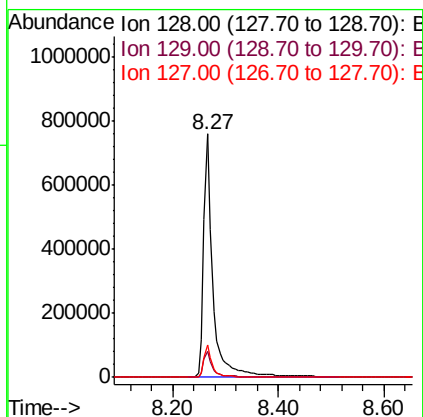
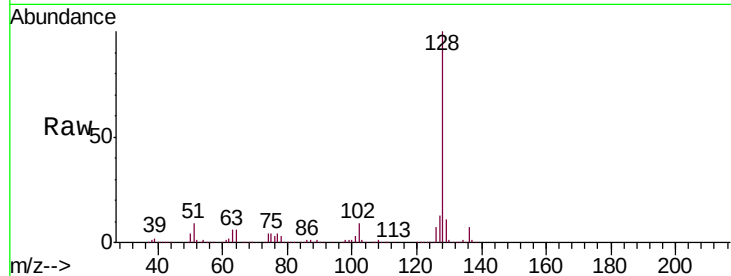




#31
Naphthalene
Concen: 28.763 ng
RT: 8.27 min Scan# 1008
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

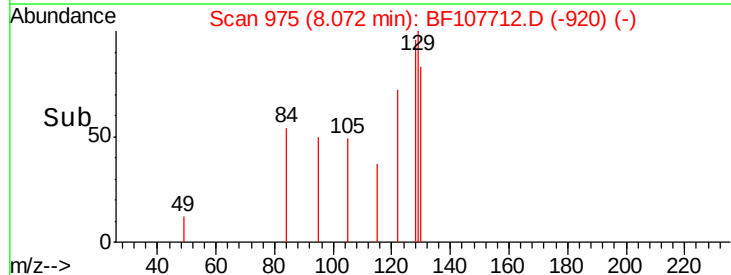
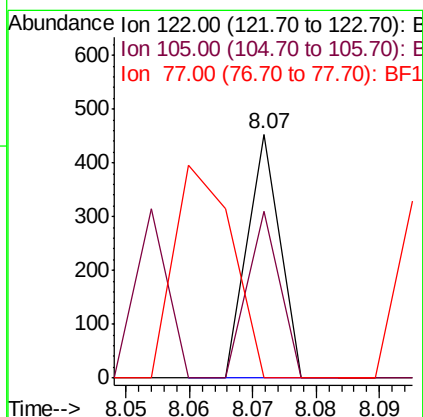
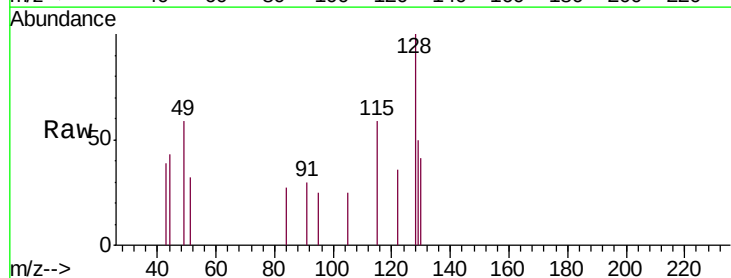
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ClientSampleId :
SB-12(3-5)

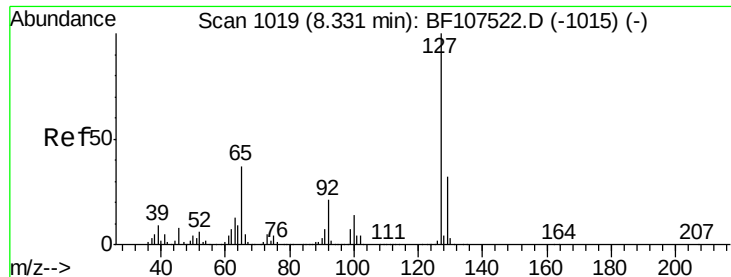
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.2	10.9	16.3



#32
Benzoic acid
Concen: 7.919 ng
RT: 8.07 min Scan# 975
Delta R.T. 0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
122	100		
105	68.4	101.1	141.1#
77	0.0	70.7	110.7#

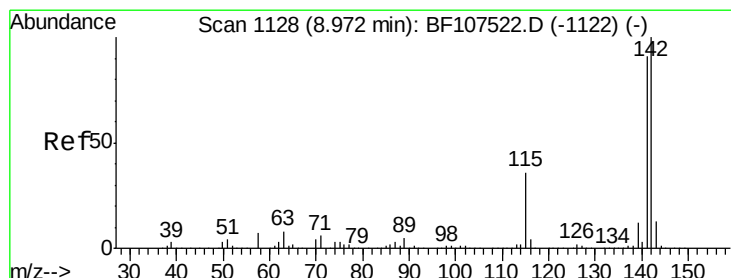
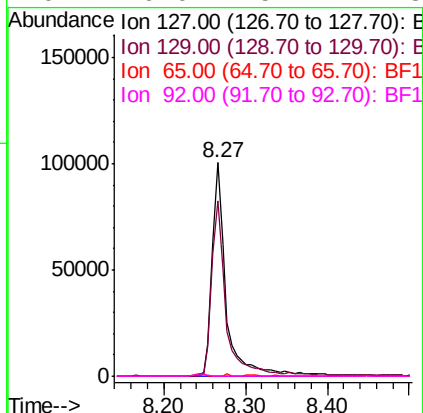
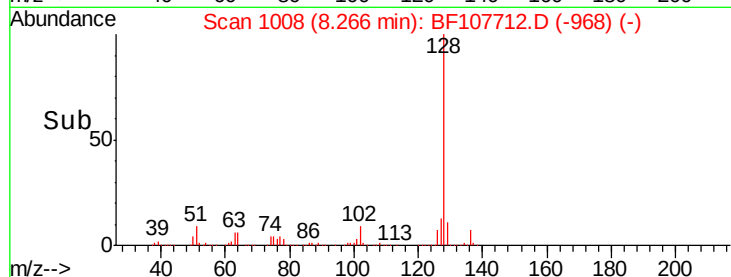
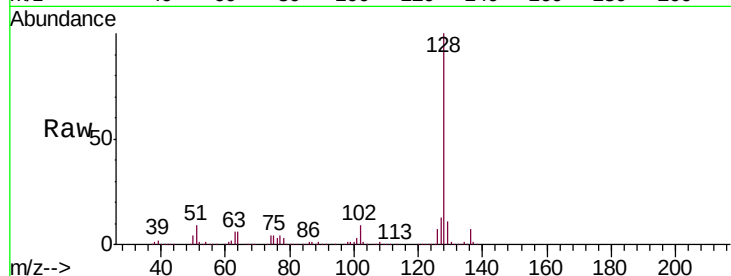




#33
4-Chloroaniline
Concen: 8.483 ng
RT: 8.27 min Scan# 1008
Delta R.T. -0.06 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

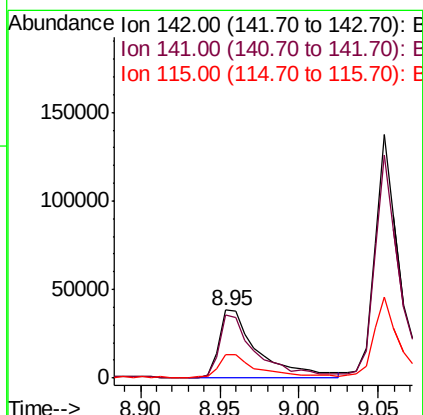
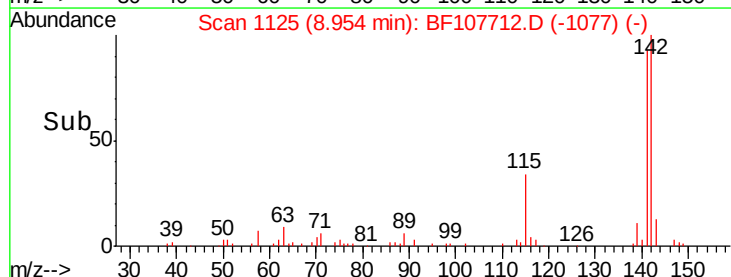
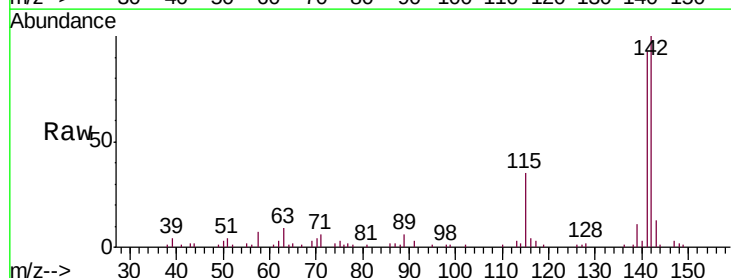
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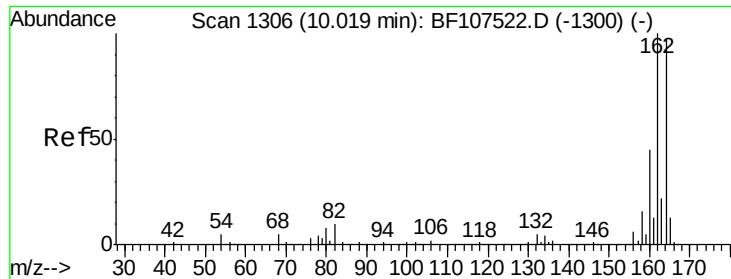
Tgt Ion:	127	Resp:	121139
Ion	Ratio	Lower	Upper
127	100		
129	82.1	25.9	38.9#
65	0.0	25.0	37.4#
92	0.0	15.2	22.8#



#37
2-Methylnaphthalene
Concen: 2.909 ng
RT: 8.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion:	142	Resp:	65864
Ion	Ratio	Lower	Upper
142	100		
141	93.2	70.8	106.2
115	34.8	26.1	39.1

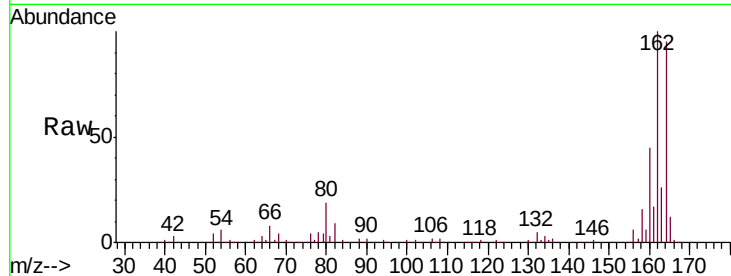




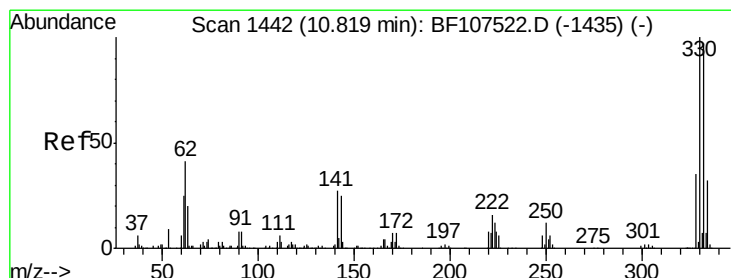
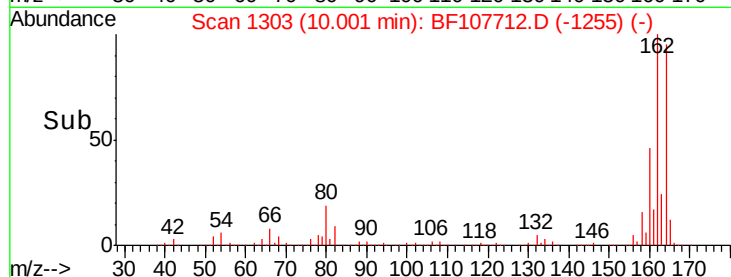
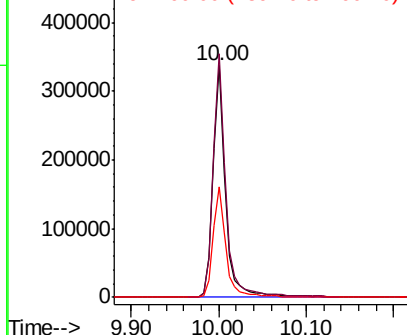
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(3-5)

Tgt Ion:164 Resp: 341577
 Ion Ratio Lower Upper
 164 100
 162 105.1 86.1 129.1
 160 47.8 38.3 57.5

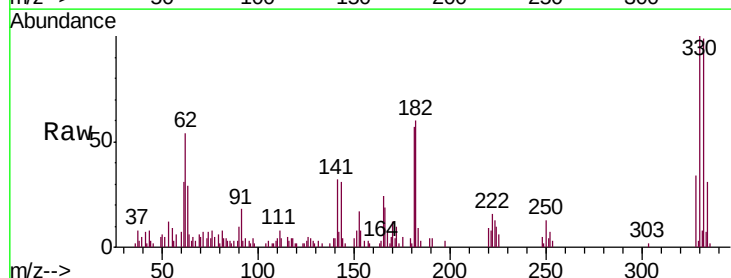


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

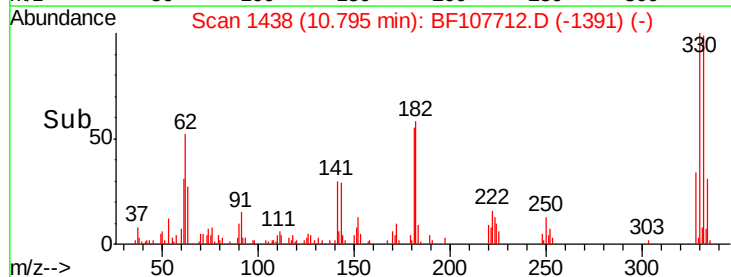
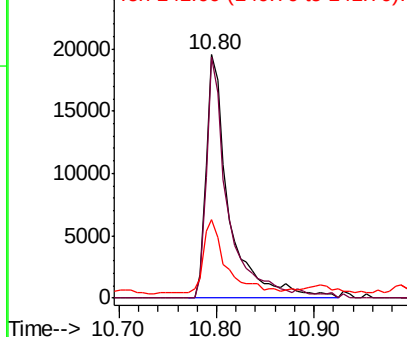


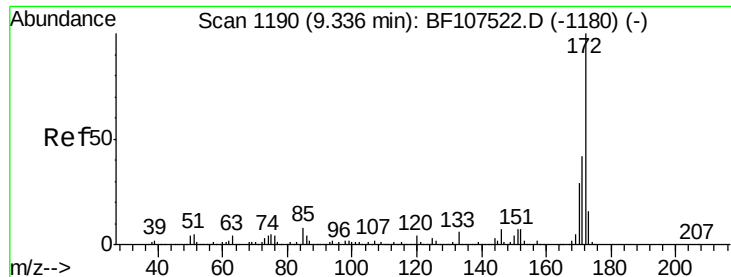
#41
 2,4,6-Tribromophenol
 Concen: 8.181 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Tgt Ion:330 Resp: 31777
 Ion Ratio Lower Upper
 330 100
 332 90.8 77.0 115.6
 141 32.0 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

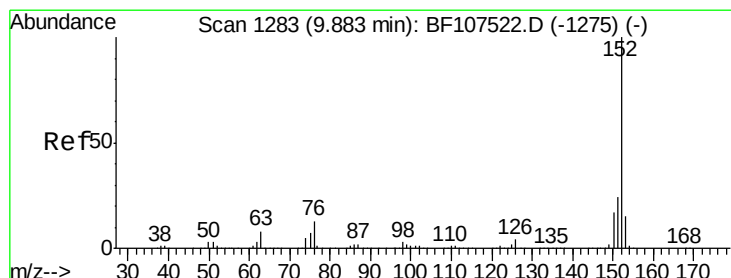
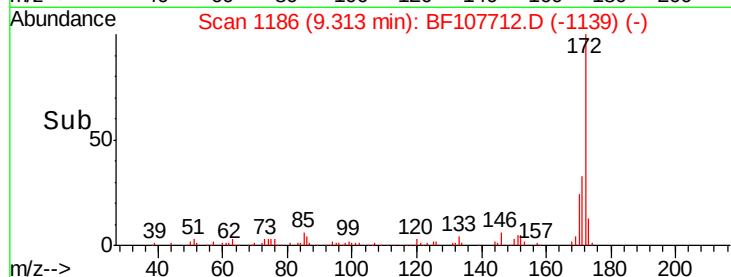
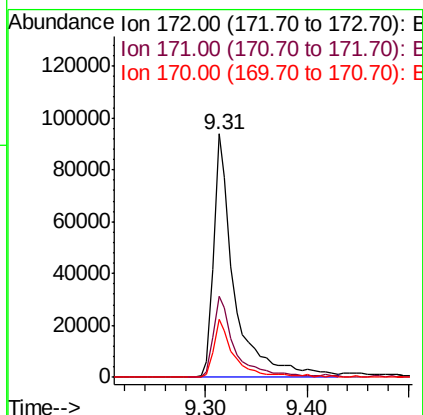
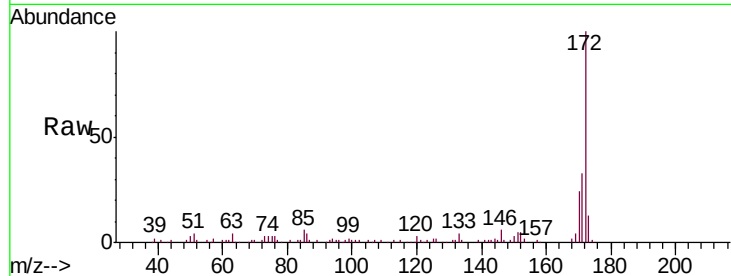




#44
2-Fluorobiphenyl
Concen: 1.219 ng
RT: 9.31 min Scan# 1186
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

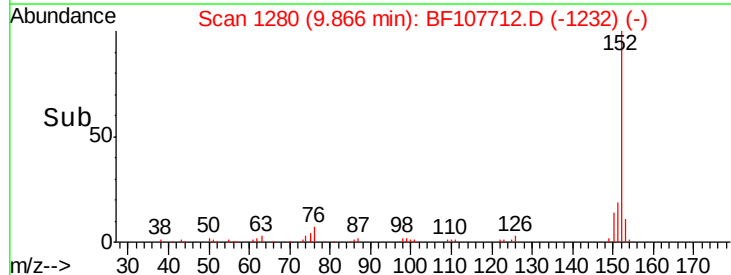
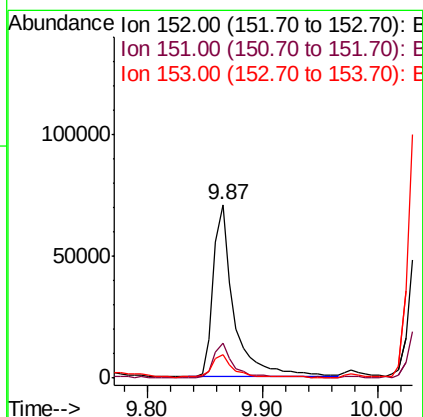
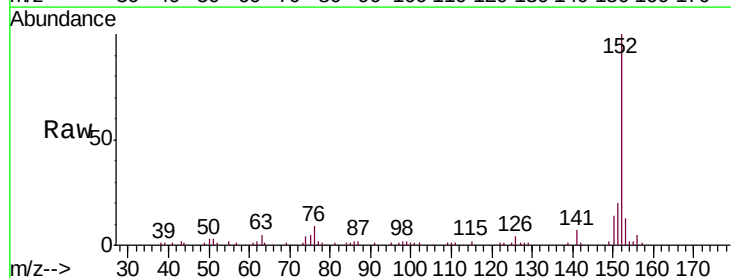
Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

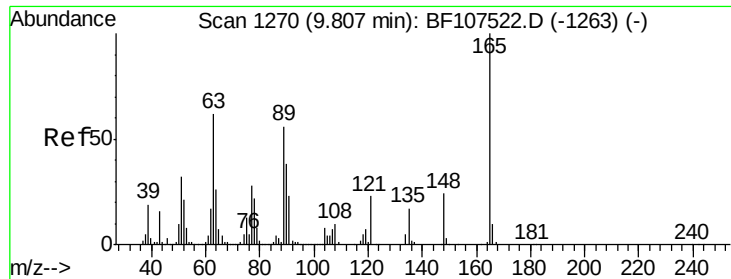
Tgt Ion:172 Resp: 134395
Ion Ratio Lower Upper
172 100
171 33.2 29.7 44.5
170 23.9 19.6 29.4



#48
Acenaphthylene
Concen: 2.584 ng
RT: 9.87 min Scan# 1280
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion:152 Resp: 88273
Ion Ratio Lower Upper
152 100
151 19.9 16.3 24.5
153 13.4 10.7 16.1

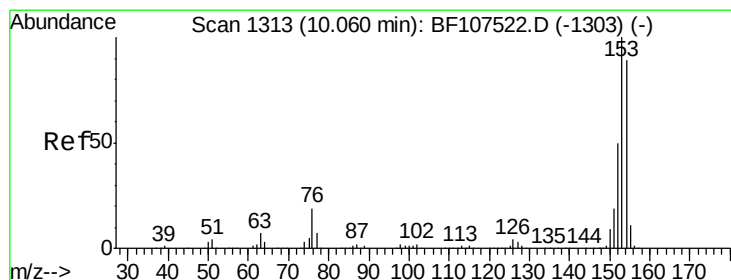
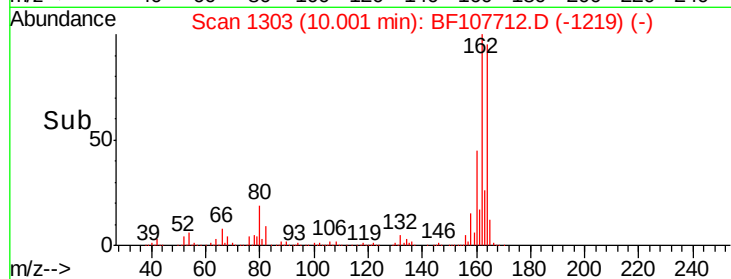
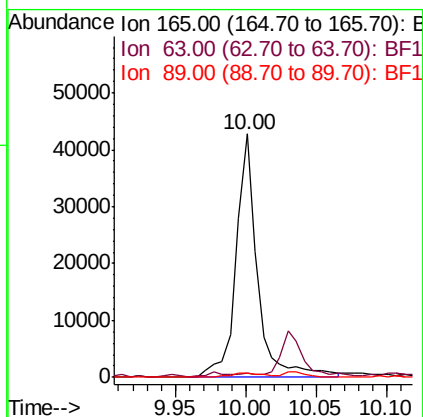
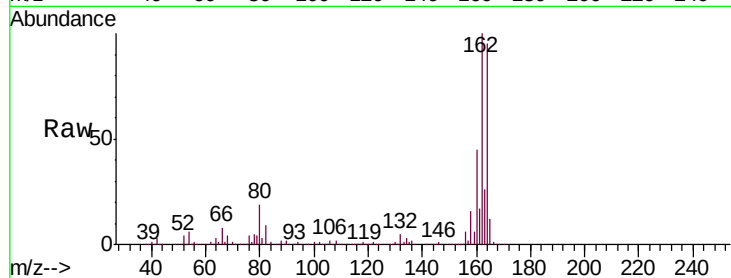




#50
 2,6-Dinitrotoluene
 Concen: 8.882 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. 0.19 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

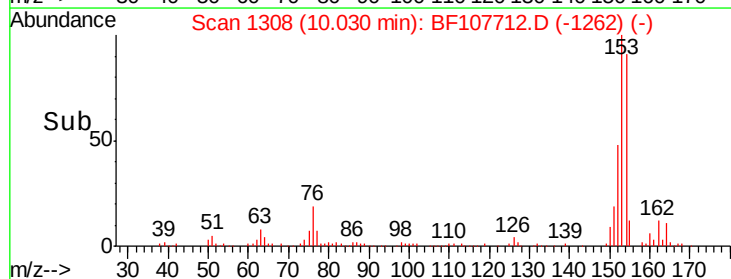
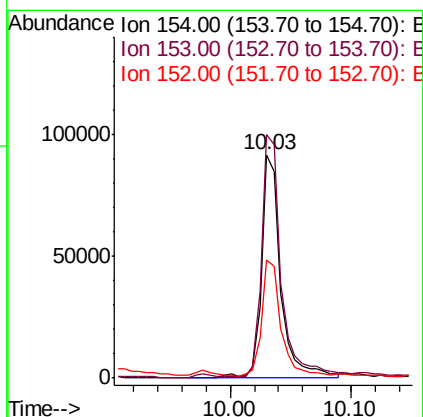
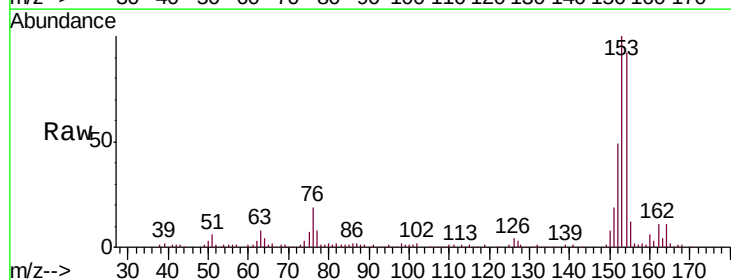
Instrument :
 BNA_F
 ClientSampled :
 SB-12(3-5)

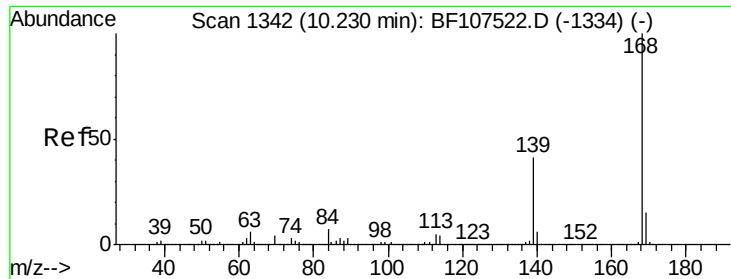
Tgt Ion:165 Resp: 45396
 Ion Ratio Lower Upper
 165 100
 63 1.7 44.7 67.1#
 89 1.8 44.0 66.0#



#51
 Acenaphthene
 Concen: 4.805 ng
 RT: 10.03 min Scan# 1308
 Delta R.T. -0.03 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Tgt Ion:154 Resp: 102852
 Ion Ratio Lower Upper
 154 100
 153 109.1 91.2 136.8
 152 53.1 43.8 65.8





#54

Dibenzenofuran

Concen: 3.208 ng

RT: 10.21 min Scan# 1338

Delta R.T. -0.02 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Instrument :

BNA_F

ClientSampleId :

SB-12(3-5)

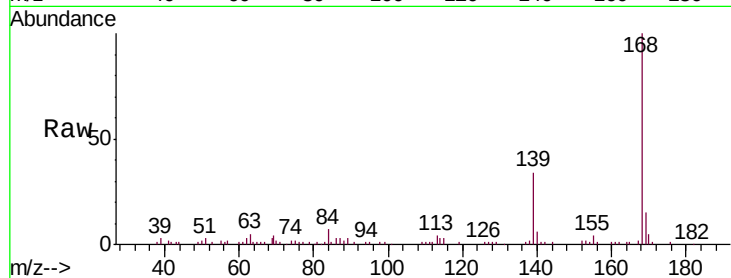
Tgt Ion:168 Resp: 101111

Ion Ratio Lower Upper

168 100

139 34.1 30.1 45.1

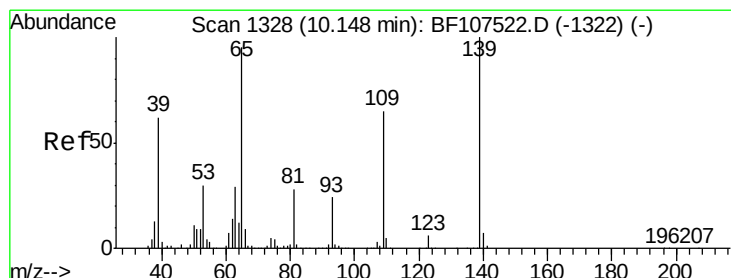
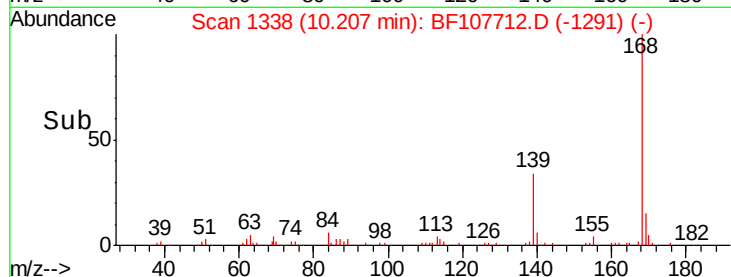
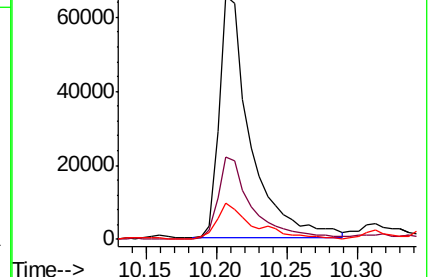
169 14.8 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 8.022 ng

RT: 10.21 min Scan# 1338

Delta R.T. 0.06 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

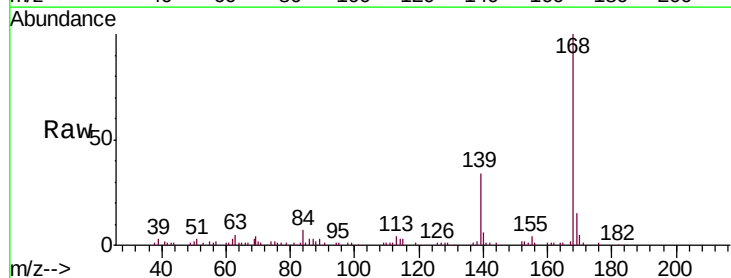
Tgt Ion:139 Resp: 37345

Ion Ratio Lower Upper

139 100

109 2.9 48.4 88.4#

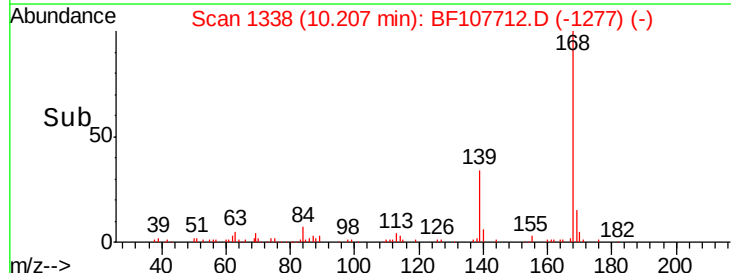
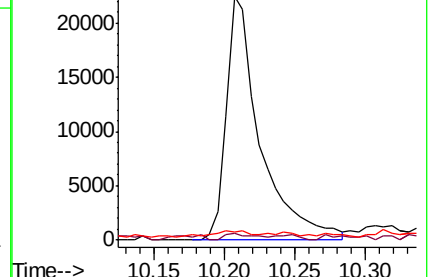
65 3.2 72.6 112.6#

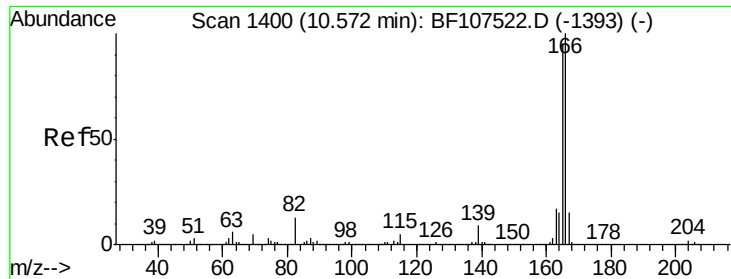


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

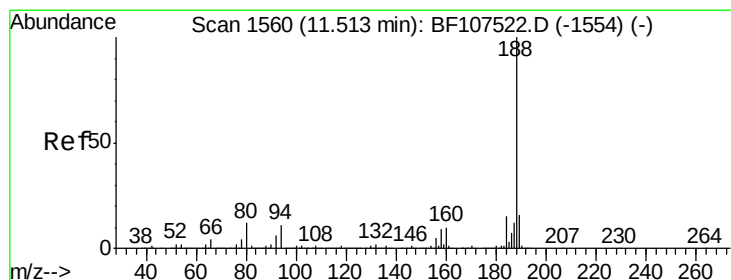
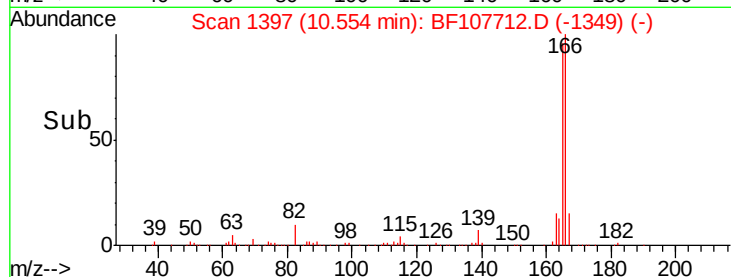
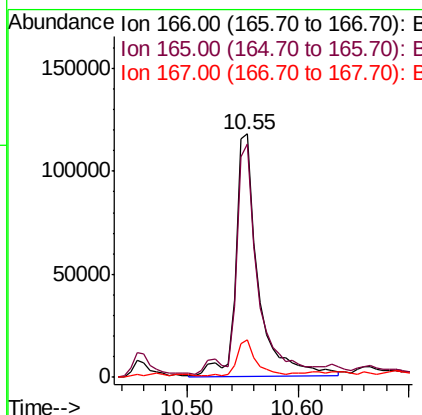
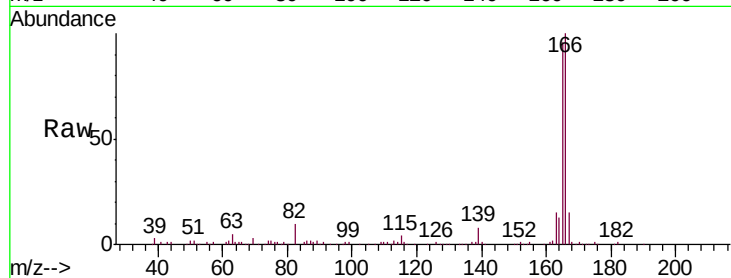




#57
 Fluorene
 Concen: 7.446 ng
 RT: 10.55 min Scan# 1397
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

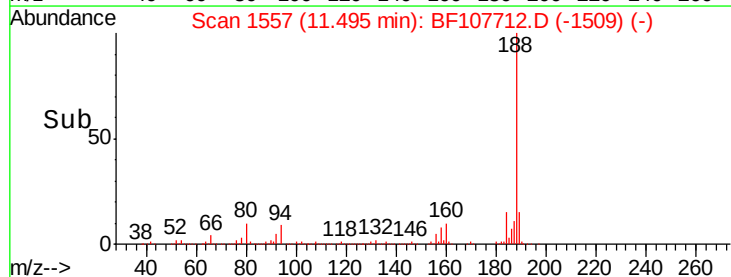
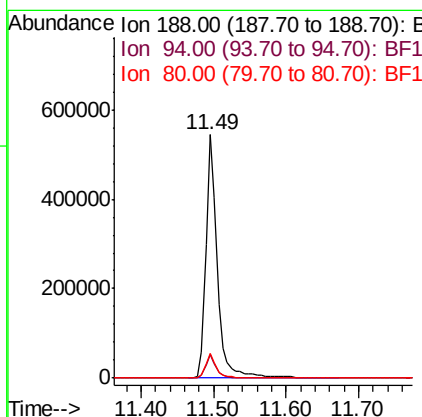
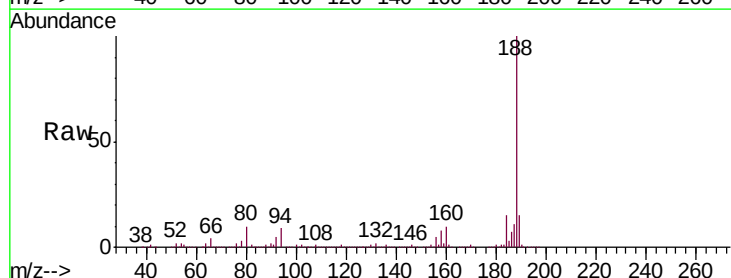
Instrument :
 BNA_F
 ClientSampleId :
 SB-12(3-5)

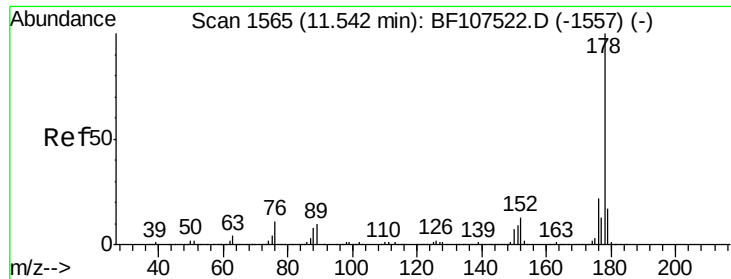
Tgt Ion:166 Resp: 167410
 Ion Ratio Lower Upper
 166 100
 165 95.9 79.8 119.8
 167 15.3 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.49 min Scan# 1557
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Tgt Ion:188 Resp: 603626
 Ion Ratio Lower Upper
 188 100
 94 9.4 8.5 12.7
 80 10.1 9.2 13.8

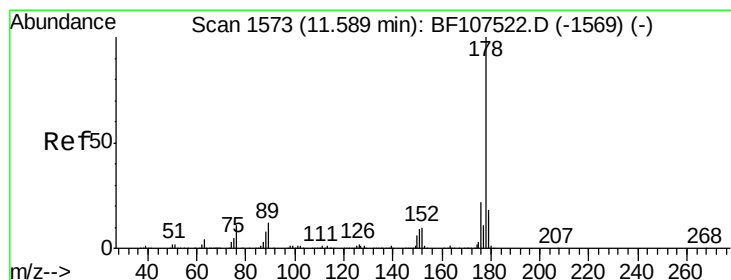
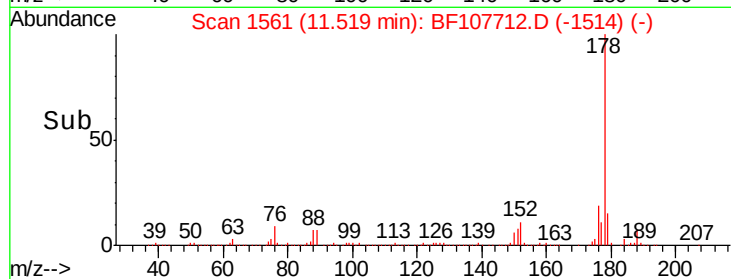
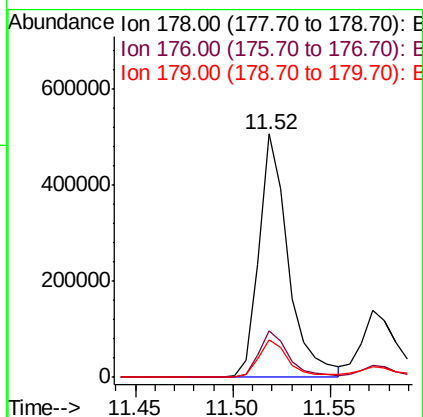
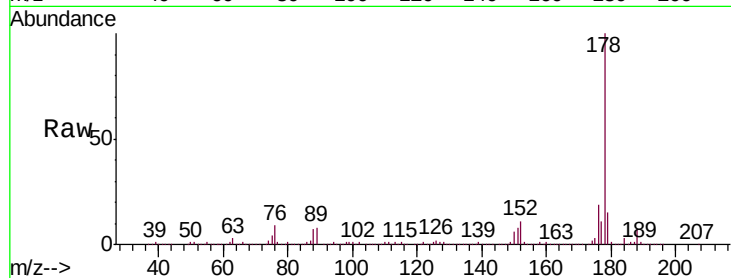




#70
Phenanthrene
Concen: 17.932 ng
RT: 11.52 min Scan# 1561
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

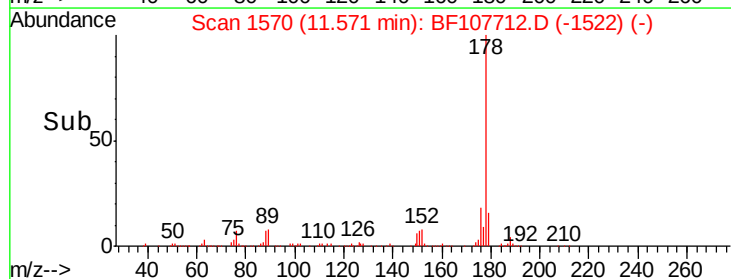
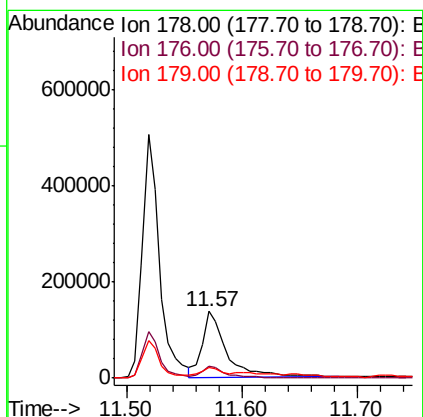
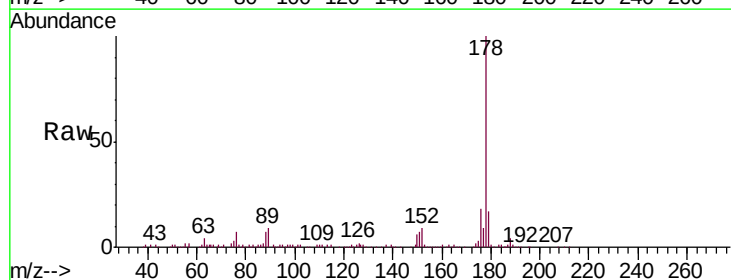
Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

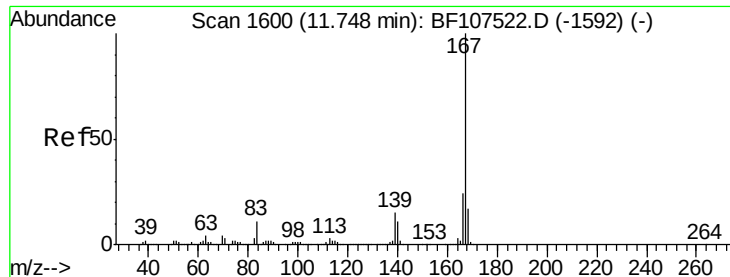
Tgt Ion:178 Resp: 527473
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 15.2 13.0 19.6



#71
Anthracene
Concen: 6.907 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion:178 Resp: 204572
Ion Ratio Lower Upper
178 100
176 17.8 15.4 23.2
179 16.8 12.6 19.0





#72

Carbazole

Concen: 3.050 ng

RT: 11.74 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Instrument :

BNA_F

ClientSampleId :

SB-12(3-5)

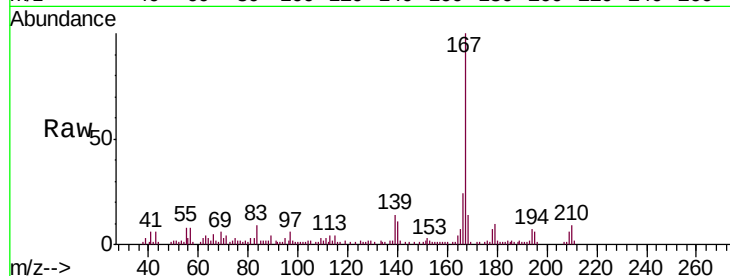
Tgt Ion:167 Resp: 93928

Ion Ratio Lower Upper

167 100

166 23.5 17.6 26.4

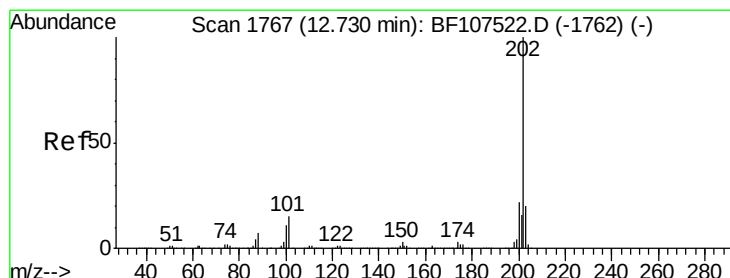
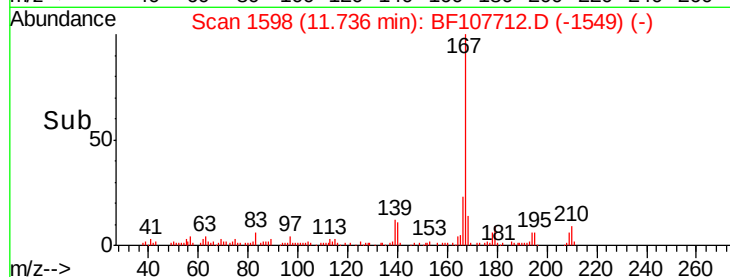
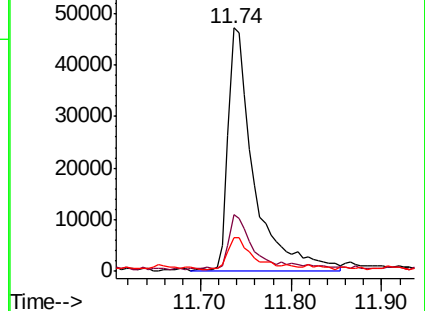
139 13.7 10.9 16.3



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: 16.316 ng

RT: 12.71 min Scan# 1764

Delta R.T. -0.02 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

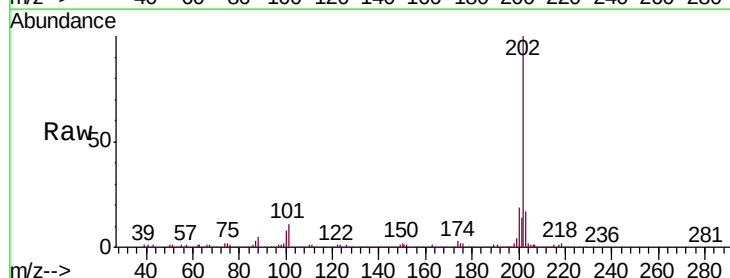
Tgt Ion:202 Resp: 514992

Ion Ratio Lower Upper

202 100

101 10.8 0.0 34.1

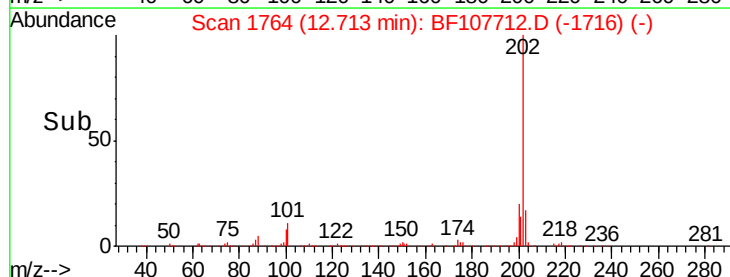
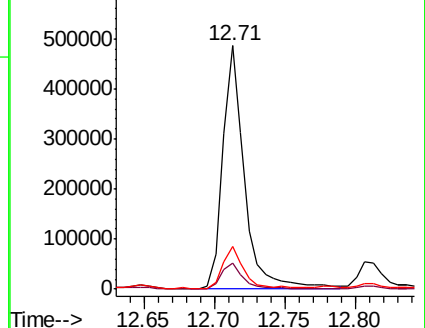
203 17.5 0.0 38.1

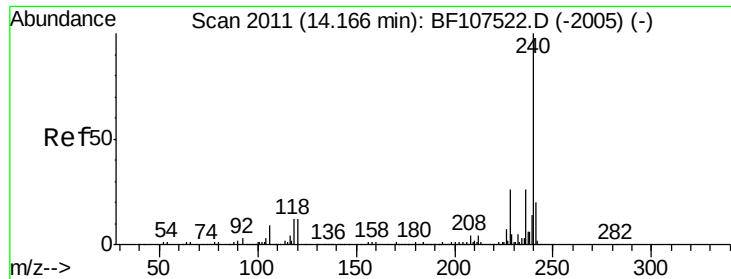


Abundance Ion 202.00 (201.70 to 202.70): E

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# 2008

Delta R.T. -0.02 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Instrument :

BNA_F

ClientSampleId :

SB-12(3-5)

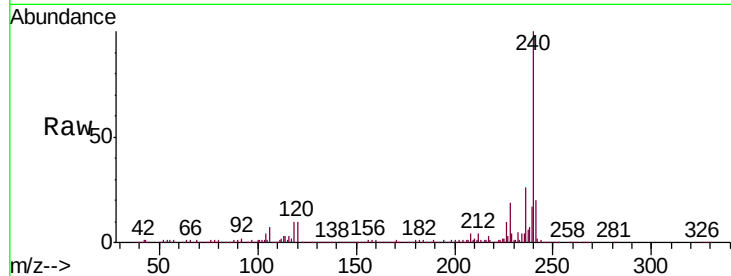
Tgt Ion:240 Resp: 431118

Ion Ratio Lower Upper

240 100

120 9.5 9.5 14.3#

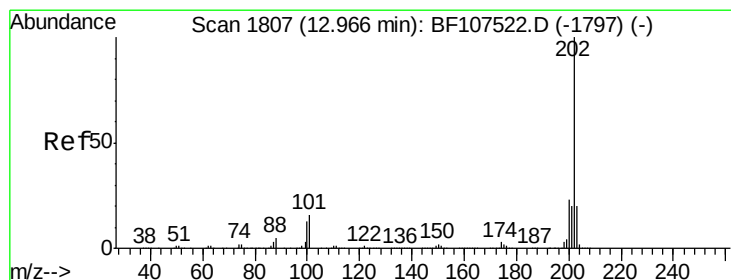
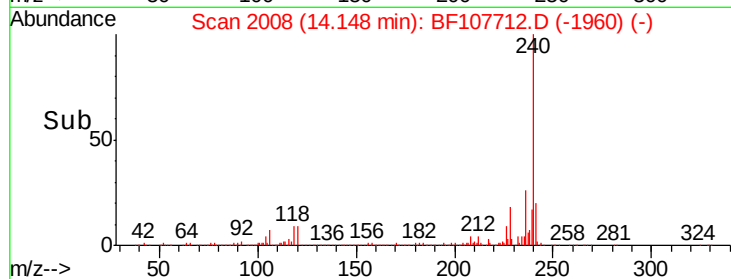
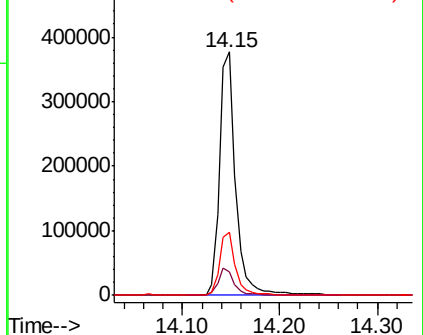
236 25.9 20.7 31.1



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: 16.906 ng

RT: 12.94 min Scan# 1803

Delta R.T. -0.02 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

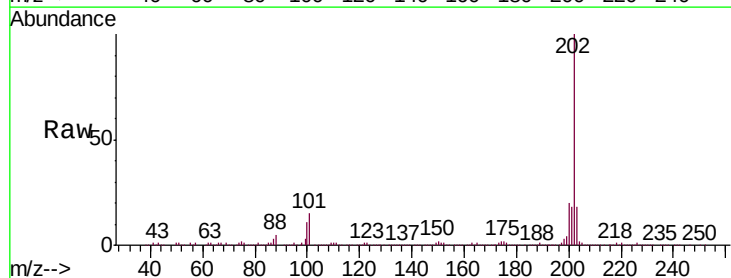
Tgt Ion:202 Resp: 498528

Ion Ratio Lower Upper

202 100

200 20.2 17.4 26.2

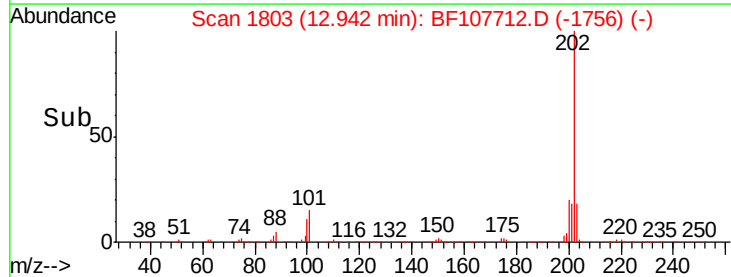
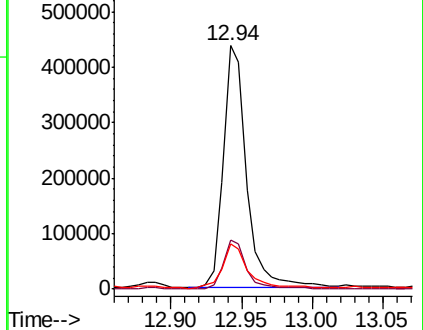
203 18.3 14.3 21.5

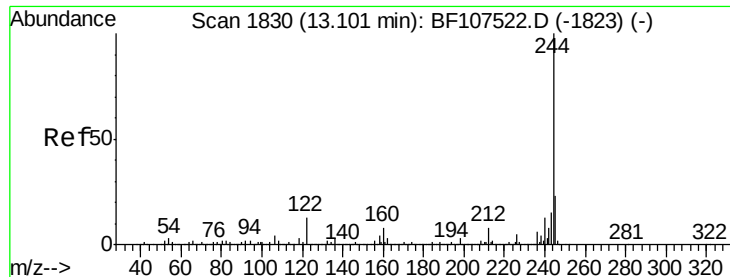


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

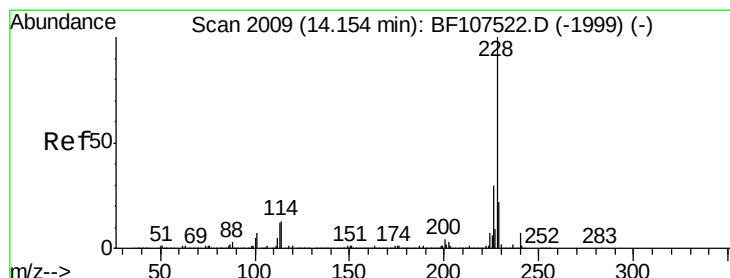
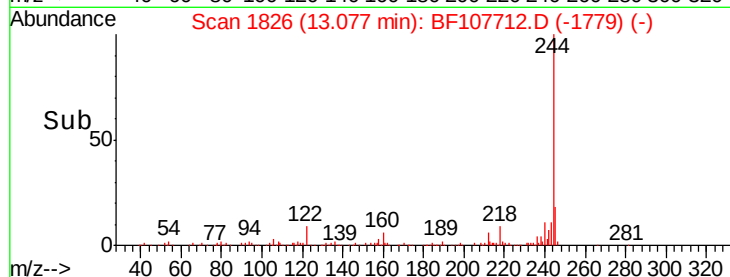
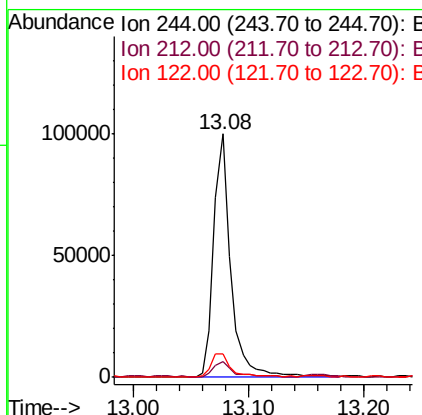
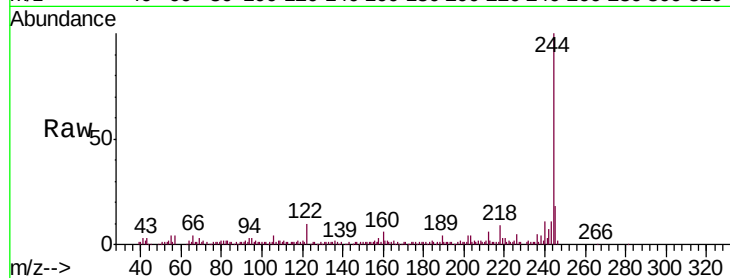




#78
 Terphenyl-d14
 Concen: 6.156 ng
 RT: 13.08 min Scan# 1826
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

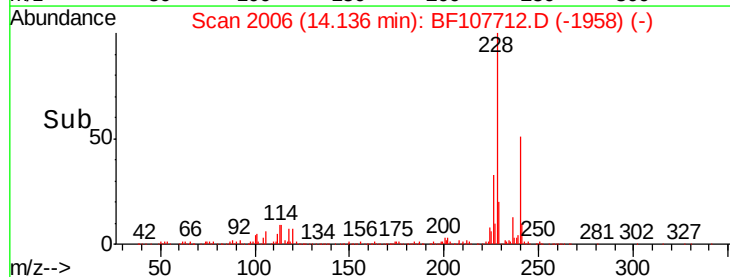
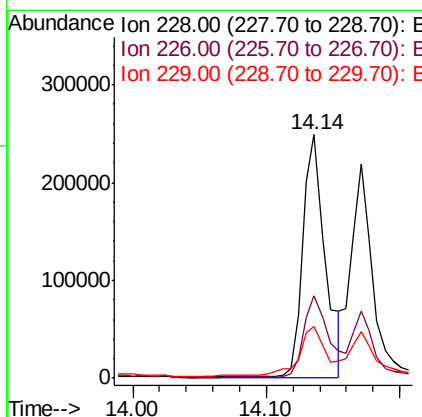
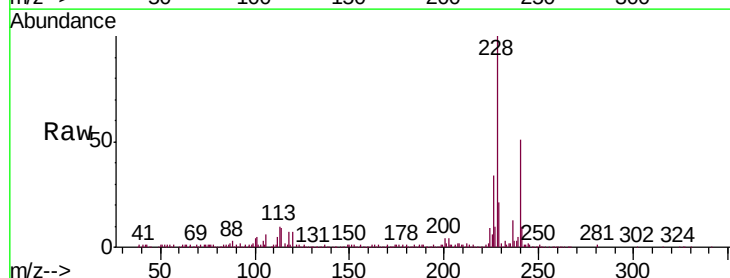
Instrument :
 BNA_F
 ClientSampleId :
 SB-12(3-5)

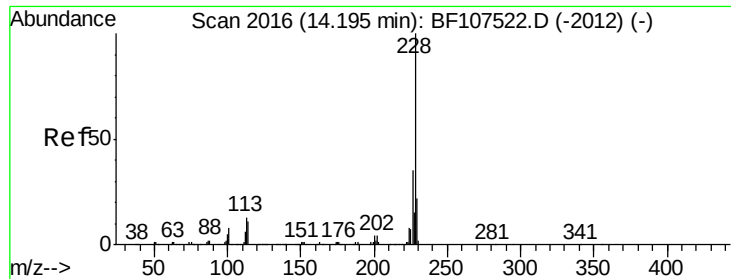
Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	9.6	11.0	16.4



#80
 Benzo(a)anthracene
 Concen: 11.261 ng
 RT: 14.14 min Scan# 2006
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.7	22.6	33.8
229	21.2	15.8	23.6

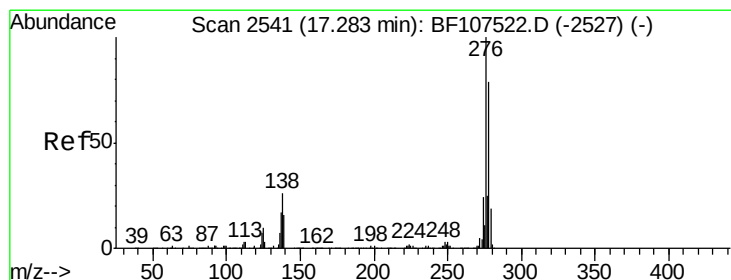
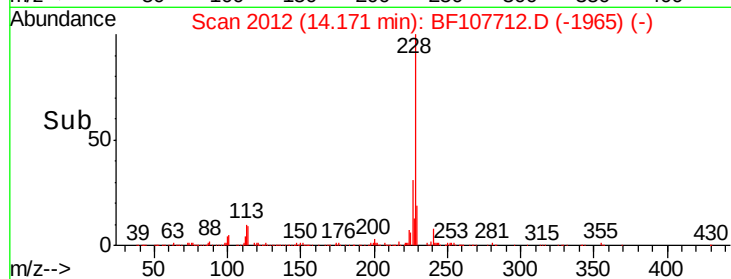
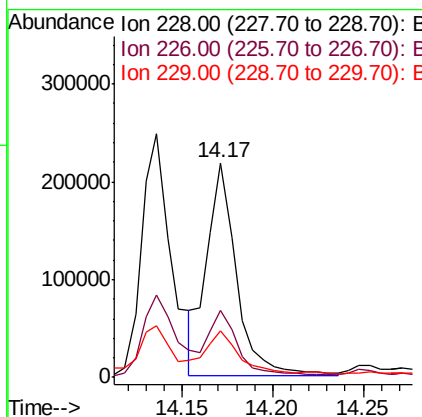
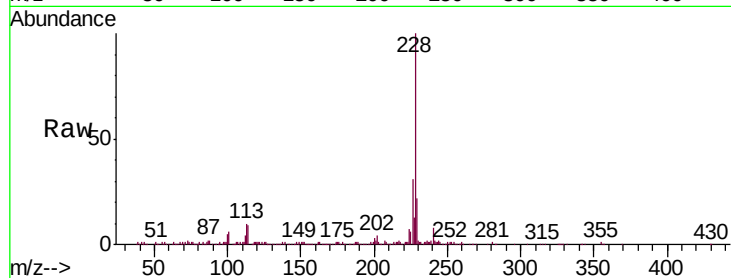




#82
Chrysene
Concen: 10.287 ng
RT: 14.17 min Scan# 2012
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

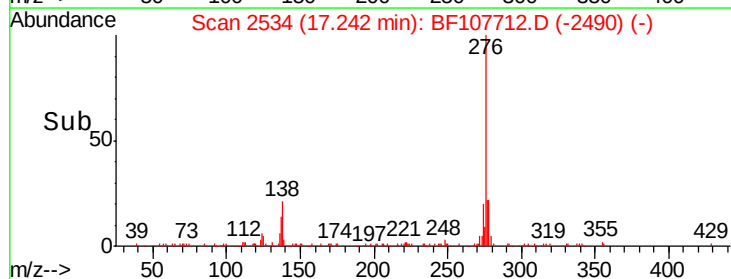
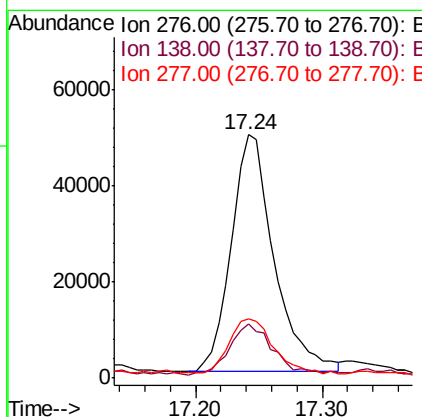
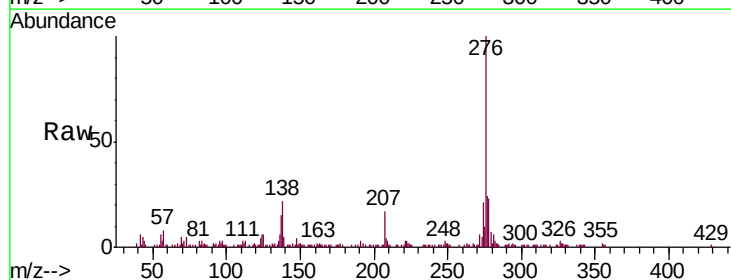
Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

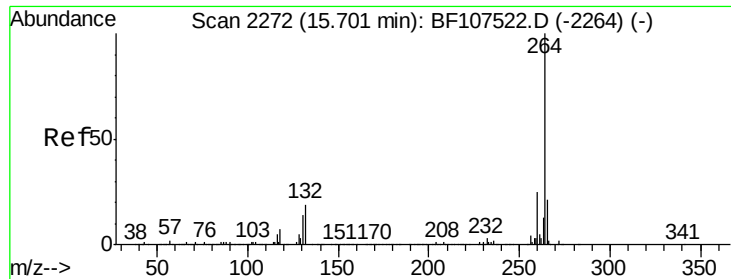
Tgt Ion:228 Resp: 249665
Ion Ratio Lower Upper
228 100
226 31.0 25.0 37.6
229 21.7 16.2 24.4



#85
Indeno(1,2,3-cd)pyrene
Concen: 5.593 ng
RT: 17.24 min Scan# 2534
Delta R.T. -0.04 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion:276 Resp: 115039
Ion Ratio Lower Upper
276 100
138 21.4 25.0 37.6#
277 24.0 20.1 30.1

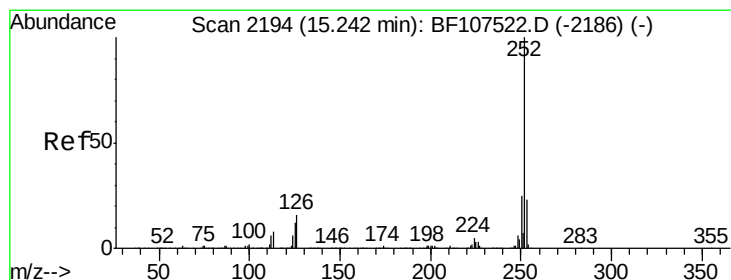
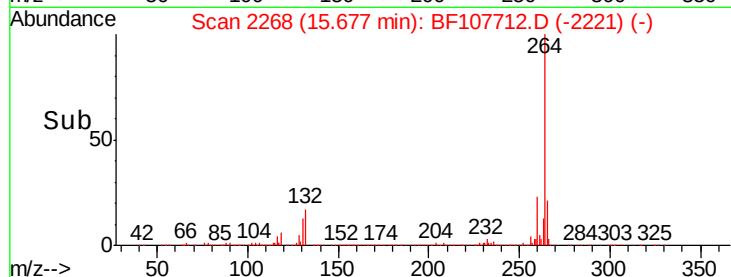
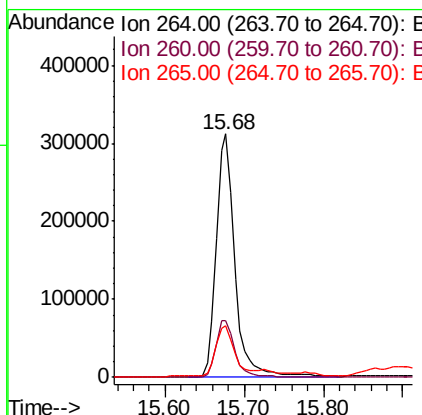
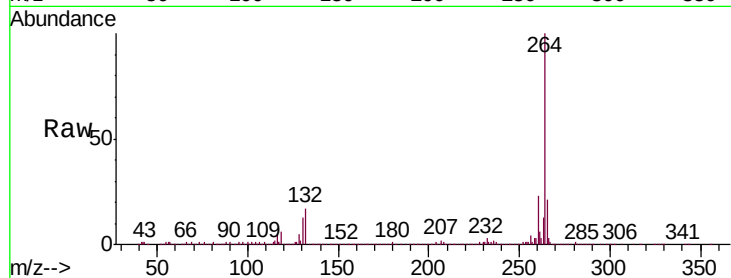




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.68 min Scan# 2268
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

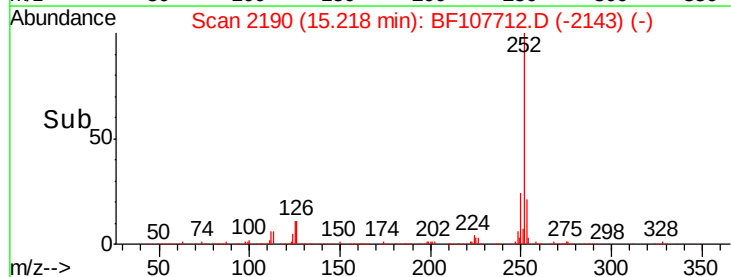
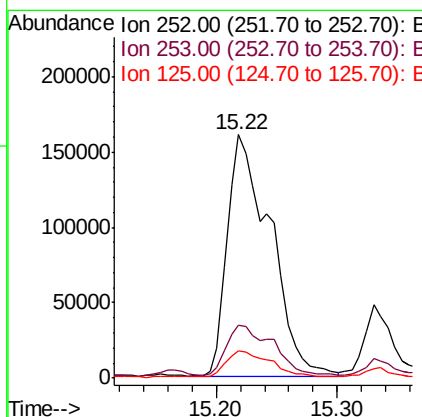
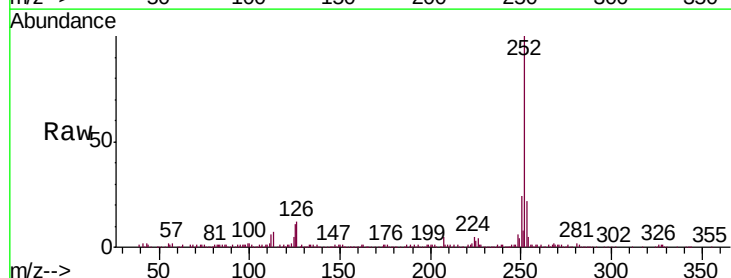
Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

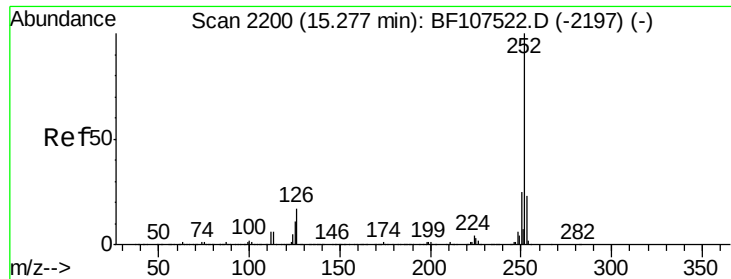
Tgt Ion:264 Resp: 500842
Ion Ratio Lower Upper
264 100
260 23.4 19.2 28.8
265 21.3 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 14.492 ng
RT: 15.22 min Scan# 2190
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion:252 Resp: 397239
Ion Ratio Lower Upper
252 100
253 21.8 17.0 25.6
125 11.1 9.0 13.6

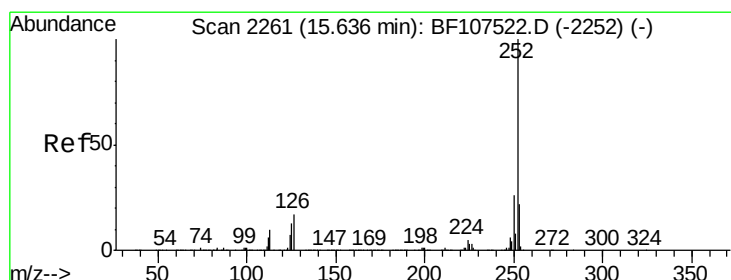
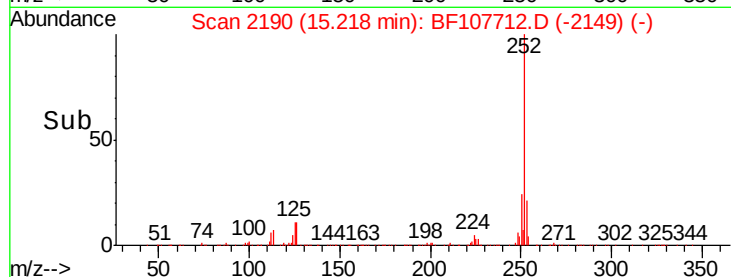
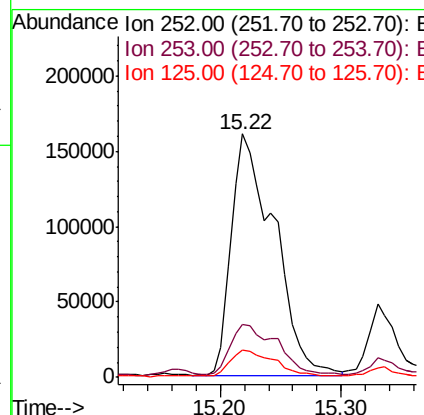
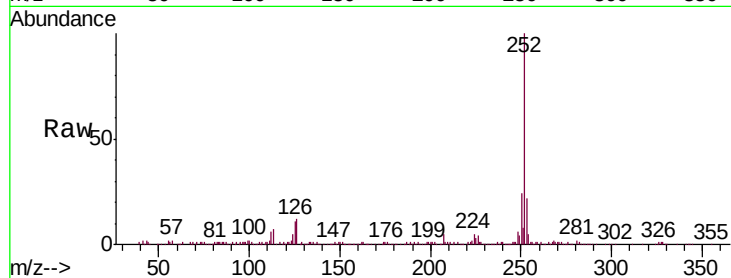




#88
Benzo(k)fluoranthene
Concen: 14.792 ng
RT: 15.22 min Scan# 2190
Delta R.T. -0.06 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.9	26.9
125	11.1	10.2	15.2



#89
Benzo(a)pyrene
Concen: 10.377 ng
RT: 15.61 min Scan# 2256
Delta R.T. -0.03 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	11.0	9.8	14.6

