

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
 Data File : BF104813.D
 Acq On : 26 Apr 2018 3:26
 Operator : JU/SJ
 Sample : J2497-10 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 26 08:23:44 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	98938	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	398140	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	154948	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	220869	20.00	ng	0.00
75) Chrysene-d12	13.98	240	209004	20.00	ng	0.00
86) Perylene-d12	15.45	264	157138	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	12365	1.91	ng	0.00
7) Phenol-d6	6.44	99	14755	1.86	ng	0.00
23) Nitrobenzene-d5	7.37	82	8366	1.37	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	2272	1.41	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	19284	1.97	ng	0.00
78) Terphenyl-d14	12.92	244	14190	1.55	ng	0.00

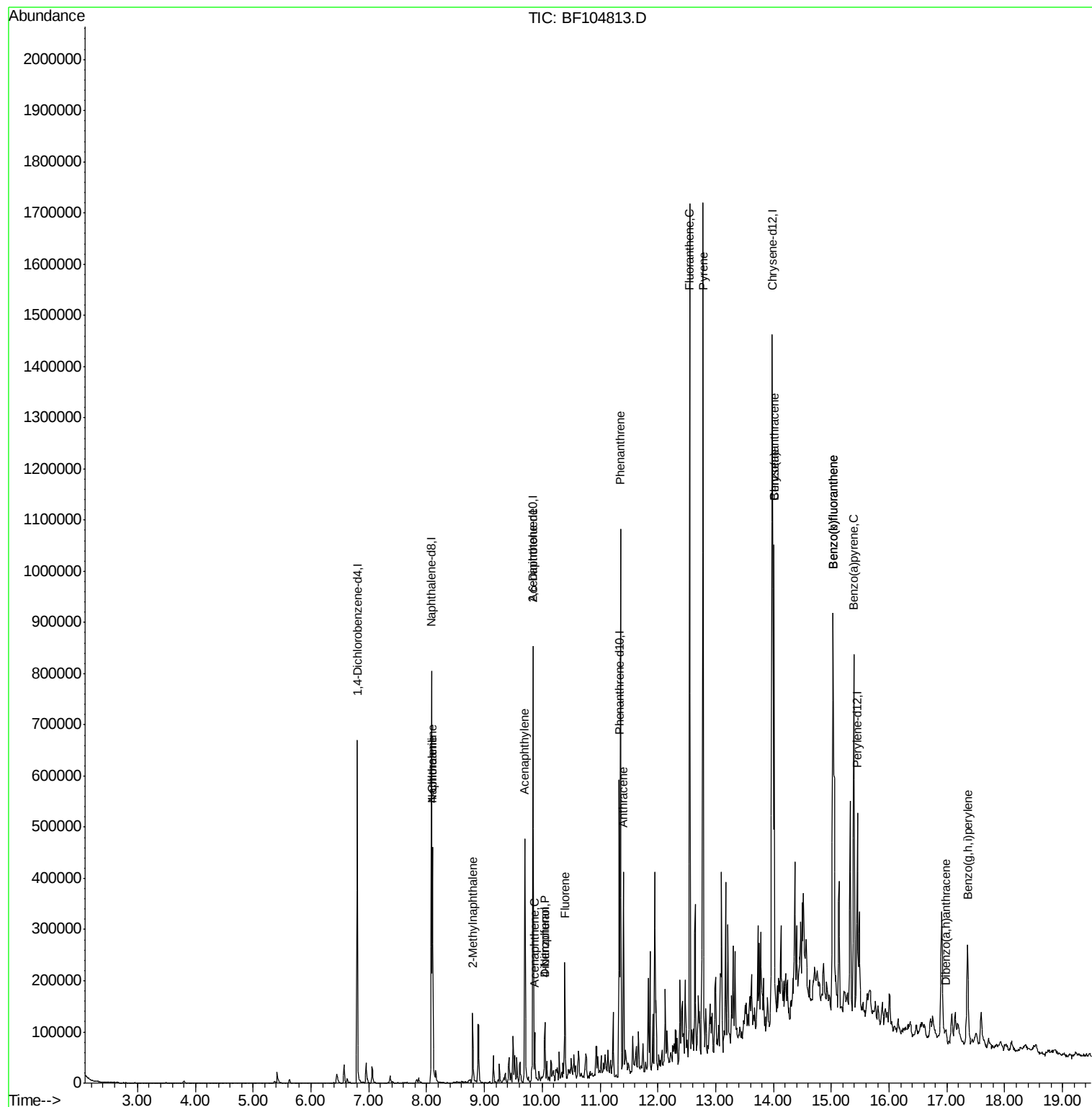
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.40	77	112	Below Cal		# 1
31) Naphthalene	8.10	128	192664	9.718	ng	98
33) 4-Chloroaniline	8.10	127	24716	2.910	ng	# 31
37) 2-Methylnaphthalene	8.80	142	43068	3.358	ng	96
48) Acenaphthylene	9.70	152	212052	13.145	ng	100
50) 2,6-Dinitrotoluene	9.84	165	21028	9.300	ng	# 26
51) Acenaphthene	9.87	154	21011	2.135	ng	99
54) Dibenzofuran	10.05	168	38818	2.830	ng	99
55) 4-Nitrophenol	10.05	139	14946	7.188	ng	# 10
57) Fluorene	10.39	166	69061	6.917	ng	99
70) Phenanthrene	11.36	178	378870	30.802	ng	98
71) Anthracene	11.40	178	150039	12.000	ng	99
74) Fluoranthene	12.55	202	608378	47.340	ng	97
76) Benzdine	12.65	184	271	Below Cal		# 2
77) Pyrene	12.78	202	651654	42.064	ng	99
80) Benzo(a)anthracene	14.01	228	354141	28.363	ng	96
82) Chrysene	14.01	228	354141	27.613	ng	98
87) Benzo(b)fluoranthene	15.03	252	567322	57.163	ng	97
88) Benzo(k)fluoranthene	15.03	252	567322	60.549	ng	99
89) Benzo(a)pyrene	15.39	252	311285	35.055	ng	97
90) Dibenz(a,h)anthracene	16.99	278	16179	2.218	ng	93
91) Benzo(g,h,i)perylene	17.36	276	149698	21.186	ng	94

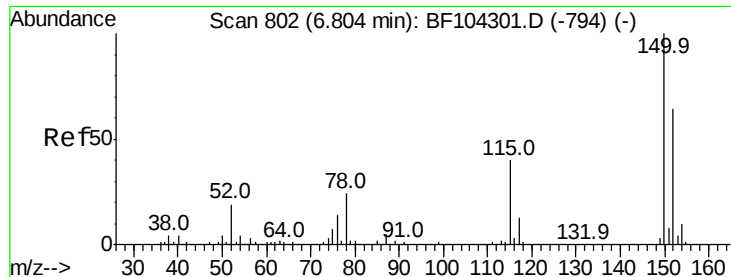
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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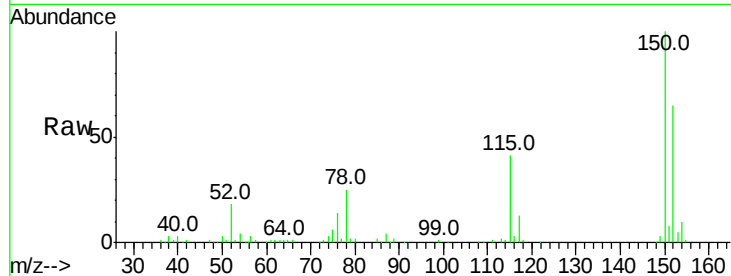


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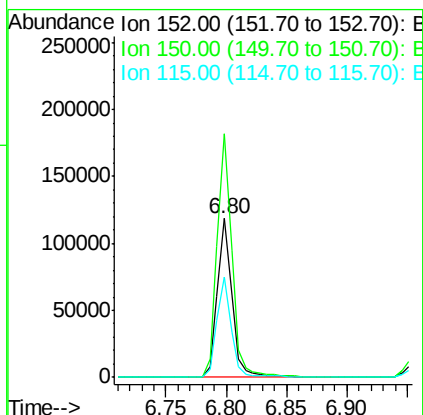
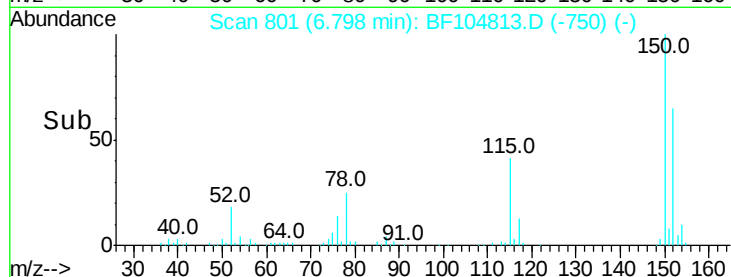
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 98938
Ion Ratio Lower Upper
152 100
150 153.3 124.6 186.8
115 63.4 50.1 75.1



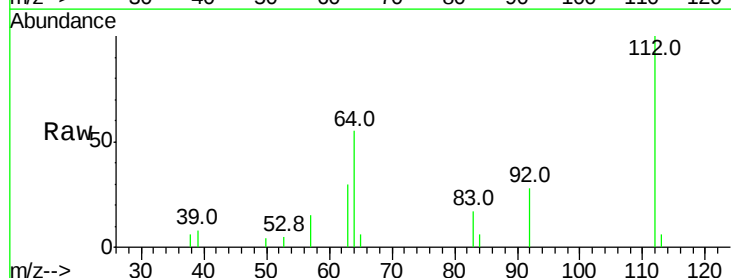
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



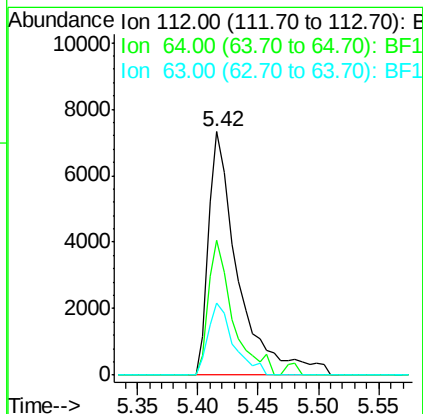
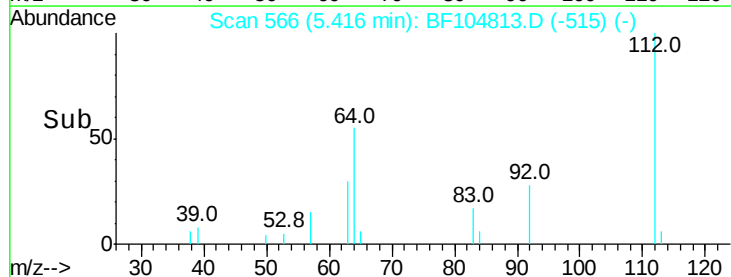
#5

2-Fluorophenol
Concen: 1.911 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion:112 Resp: 12365
Ion Ratio Lower Upper
112 100
64 55.2 47.9 71.9
63 29.5 23.7 35.5



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





#7

Phenol-d6

Concen: 1.856 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Instrument :

BNA_F

ClientSampleId :

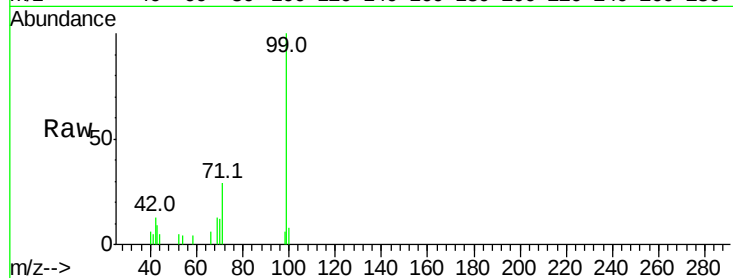
Tot Ion: 99 Resp: 14755

Ion Ratio Lower Upper

99 100

42 13.1 14.5 21.7#

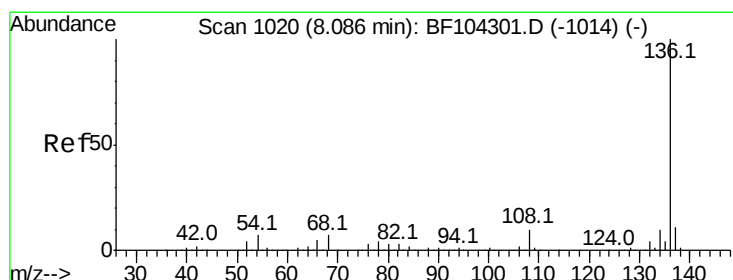
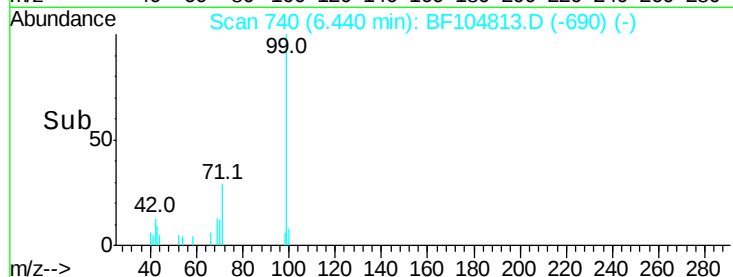
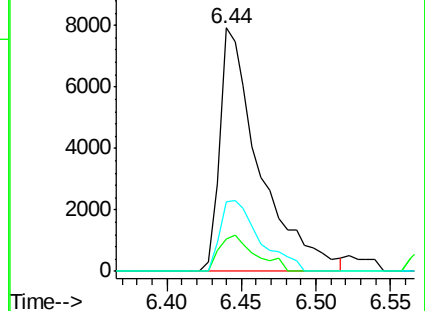
71 28.7 25.4 38.0



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: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Tgt Ion: 136 Resp: 398140

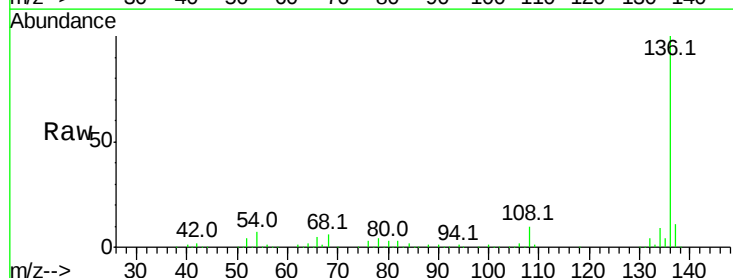
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 6.8 6.6 9.8

68 5.9 5.0 7.4

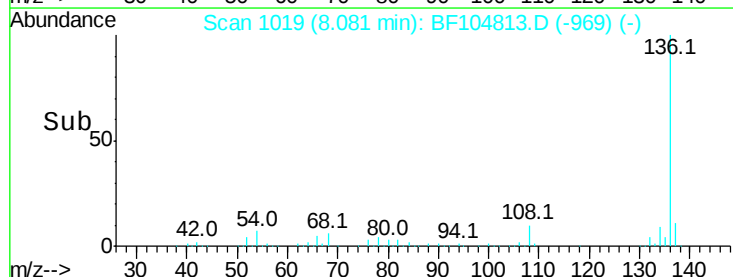
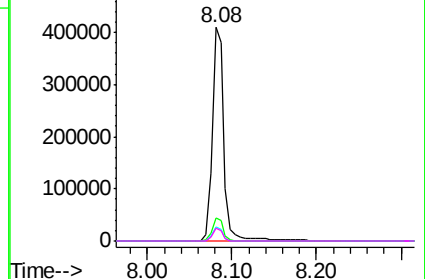


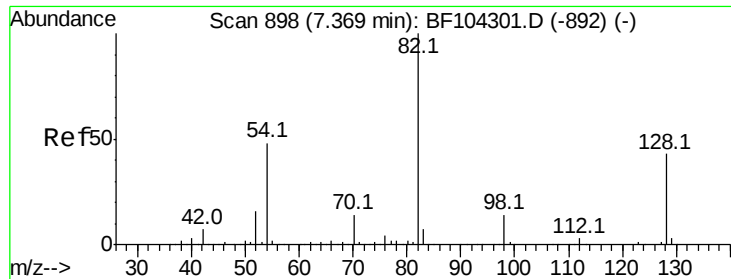
Abundance Ion 136.00 (135.70 to 136.70): E

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

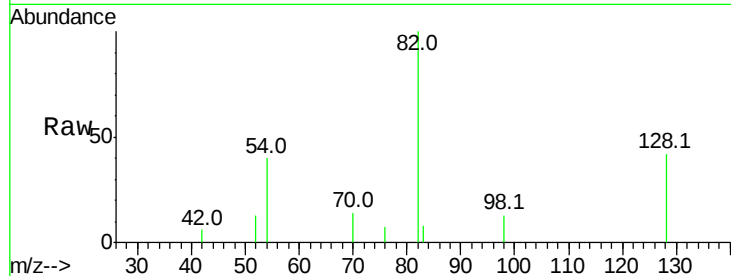




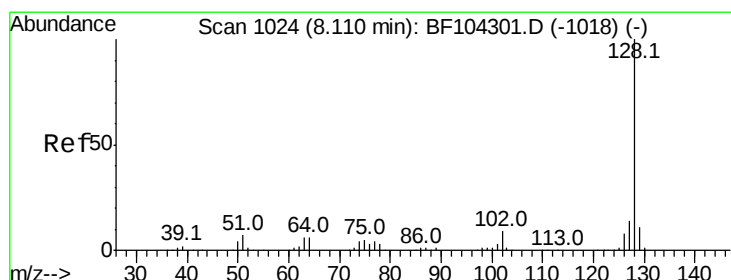
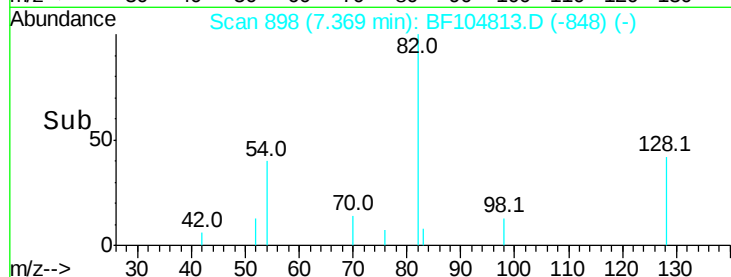
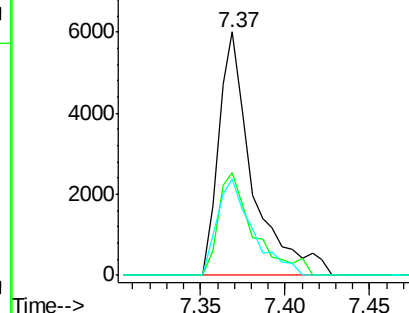
#23
 Nitrobenzene-d5
 Concen: 1.372 ng
 RT: 7.37 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 82 Resp: 8366
 Ion Ratio Lower Upper
 82 100
 128 42.3 36.1 54.1
 54 39.8 41.4 62.2#

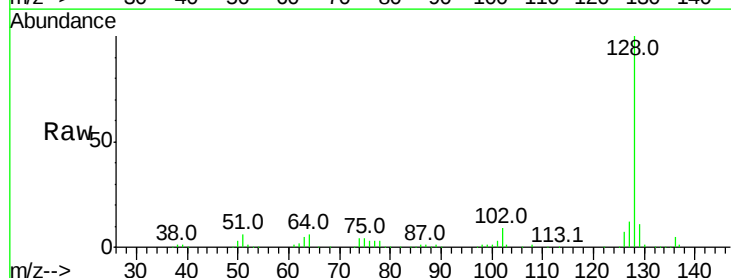


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

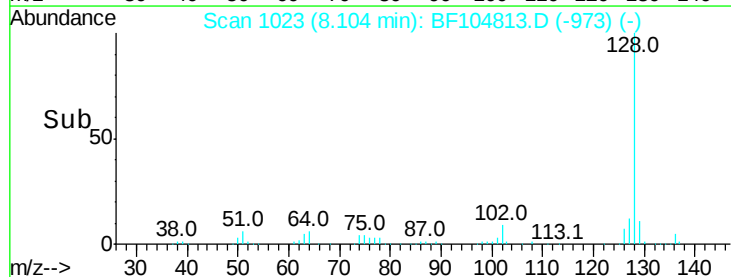
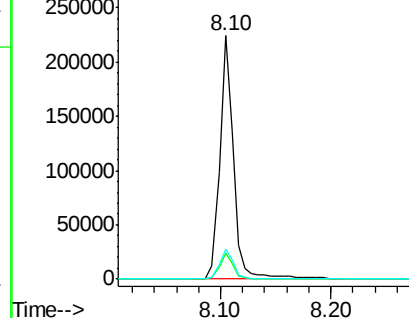


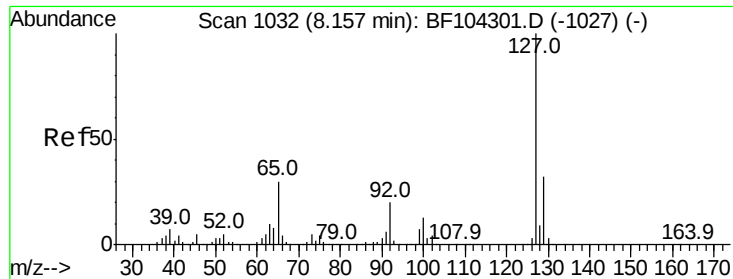
#31
 Naphthalene
 Concen: 9.718 ng
 RT: 8.10 min Scan# 1023
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Tgt Ion:128 Resp: 192664
 Ion Ratio Lower Upper
 128 100
 129 10.8 8.8 13.2
 127 12.4 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E

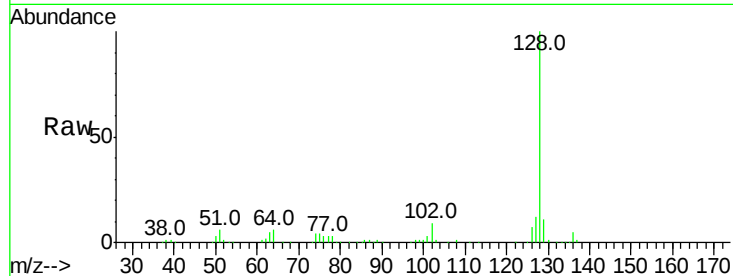




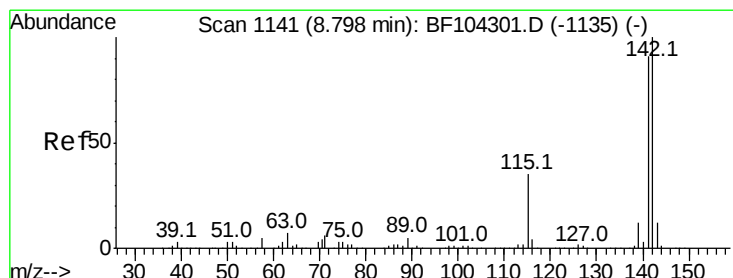
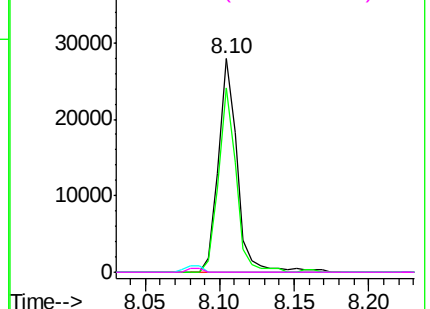
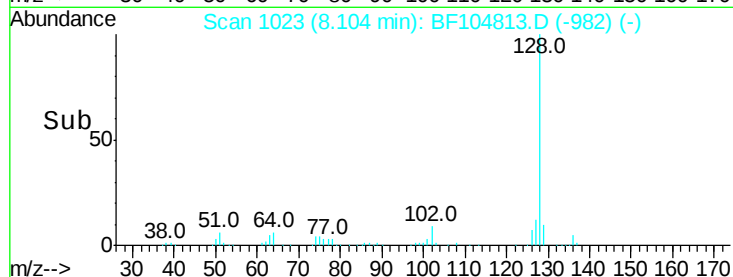
#33
4-Chloroaniline
Concen: 2.910 ng
RT: 8.10 min Scan# 1023
Delta R.T. -0.06 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
127	100		
129	86.5	25.9	38.9#
65	0.0	25.0	37.4#
92	0.0	15.2	22.8#

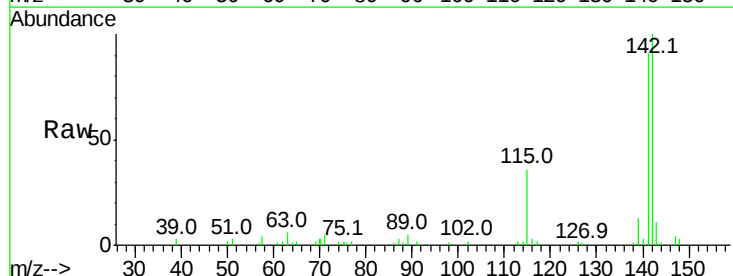


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF1
Ion 92.00 (91.70 to 92.70): BF1

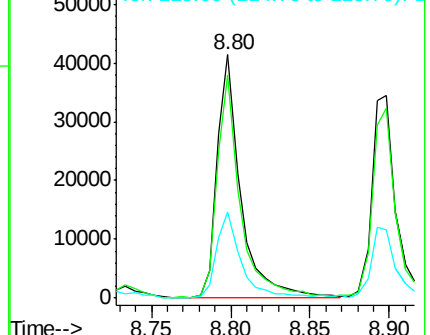
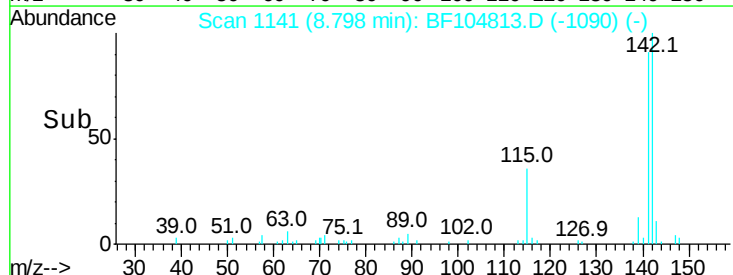


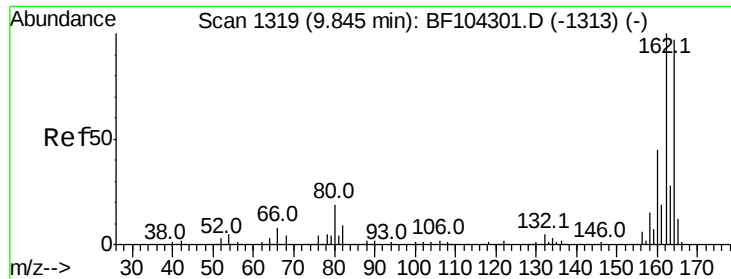
#37
2-Methylnaphthalene
Concen: 3.358 ng
RT: 8.80 min Scan# 1141
Delta R.T. -0.00 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.5	70.8	106.2
115	35.6	26.1	39.1



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

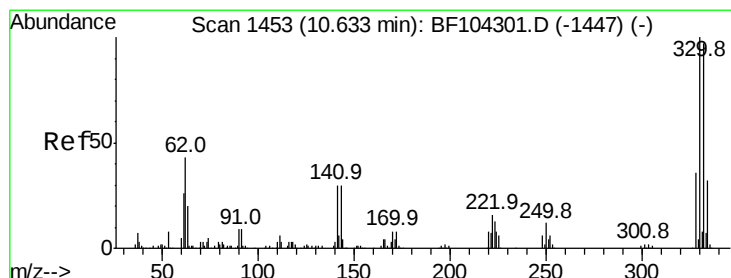
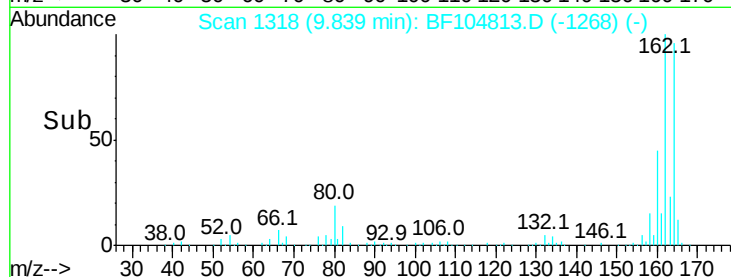
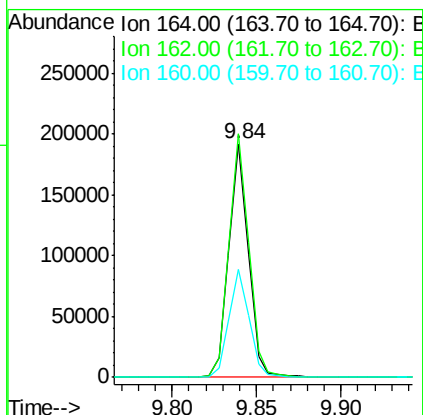
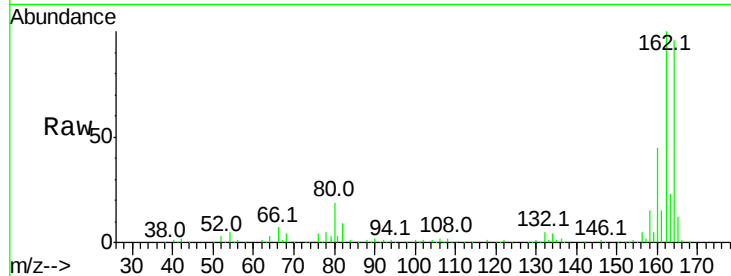




#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

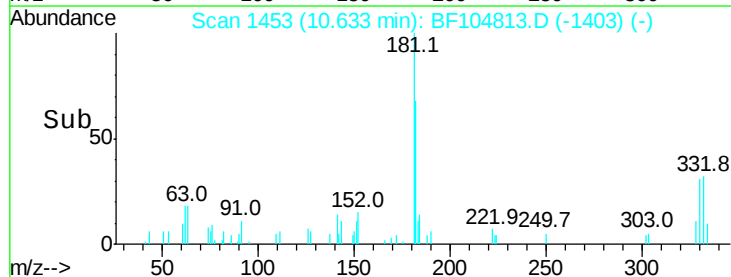
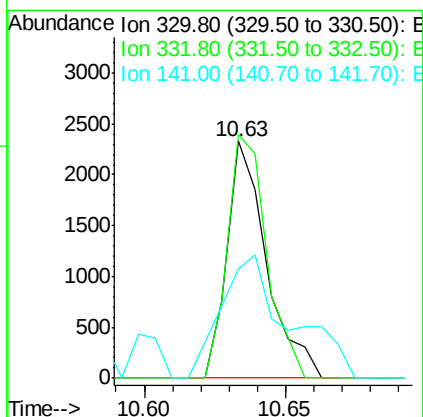
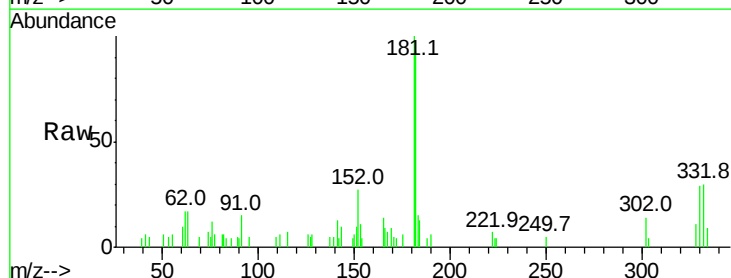
Instrument :
BNA_F
ClientSampled :

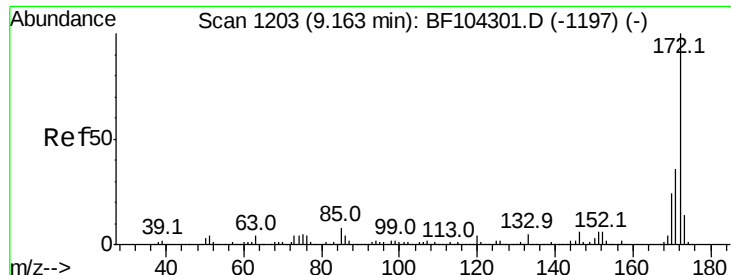
Tot Ion:164 Resp: 154948
Ion Ratio Lower Upper
164 100
162 104.1 86.1 129.1
160 46.3 38.3 57.5



#41
2,4,6-Tribromophenol
Concen: 1.414 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion:330 Resp: 2272
Ion Ratio Lower Upper
330 100
332 101.8 77.0 115.6
141 89.2 29.9 44.9#

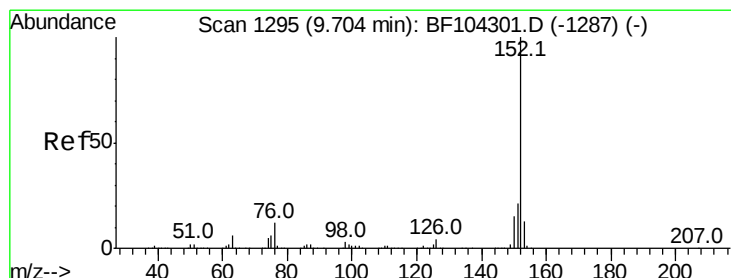
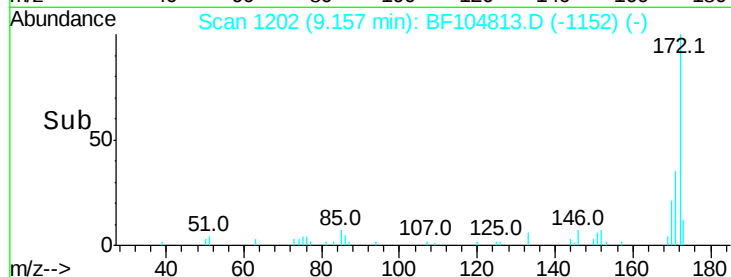
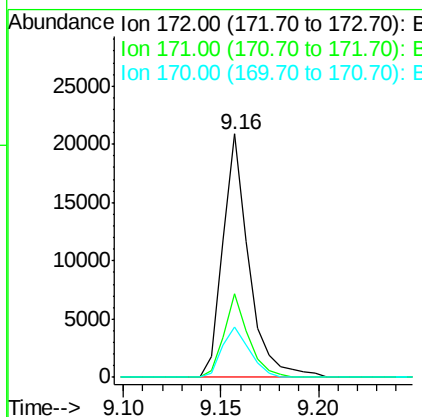
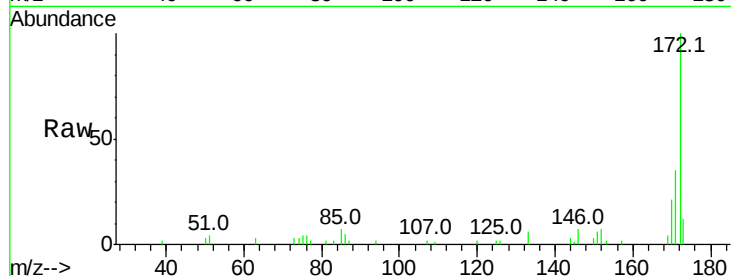




#44
 2-Fluorobiphenyl
 Concen: 1.966 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

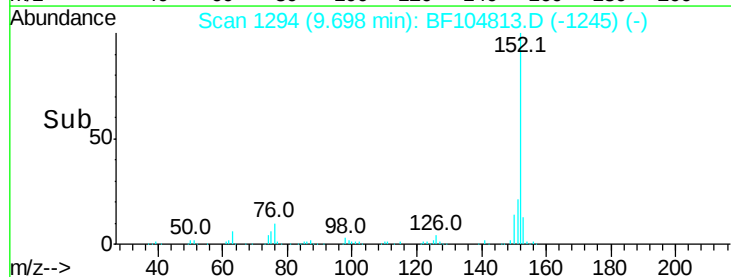
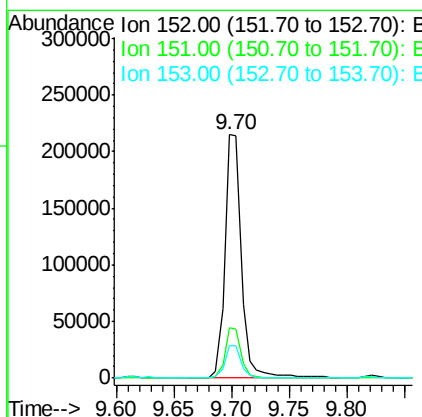
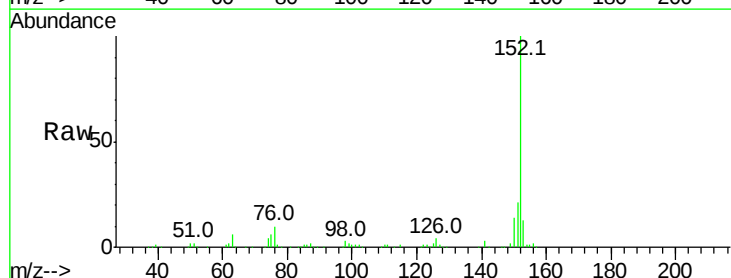
Instrument :
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 ClientSampleId :

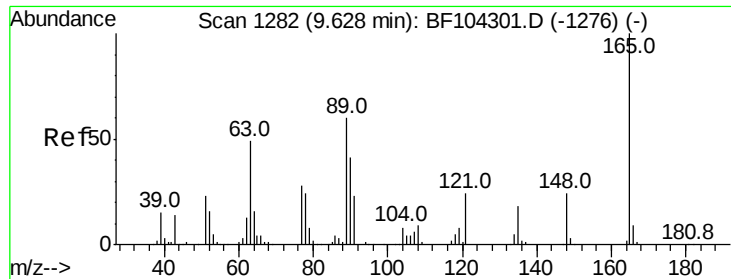
Tot Ion:172 Resp: 19284
 Ion Ratio Lower Upper
 172 100
 171 34.6 29.7 44.5
 170 20.6 19.6 29.4



#48
 Acenaphthylene
 Concen: 13.145 ng
 RT: 9.70 min Scan# 1294
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Tgt Ion:152 Resp: 212052
 Ion Ratio Lower Upper
 152 100
 151 20.7 16.3 24.5
 153 13.3 10.7 16.1

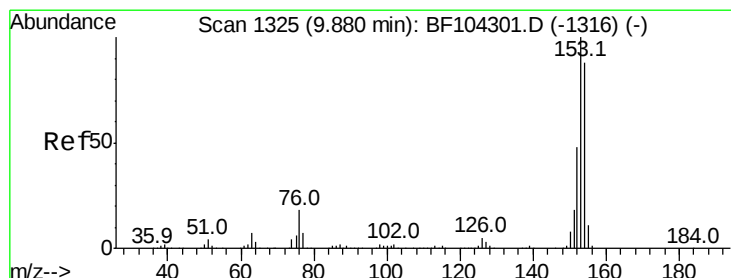
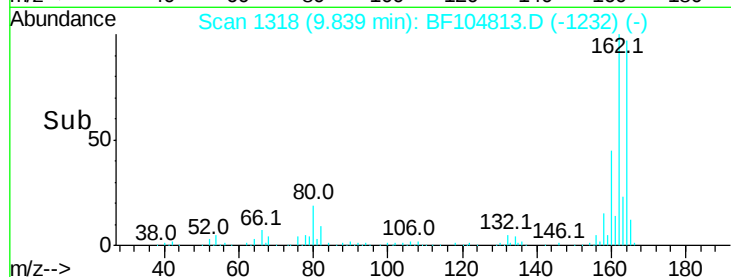
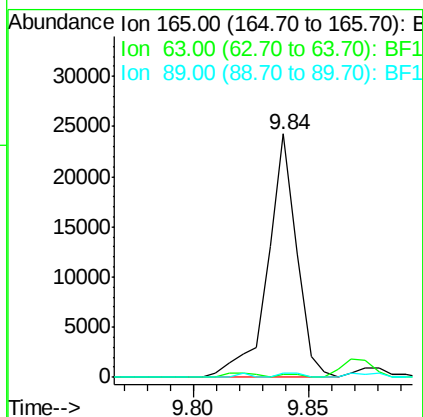
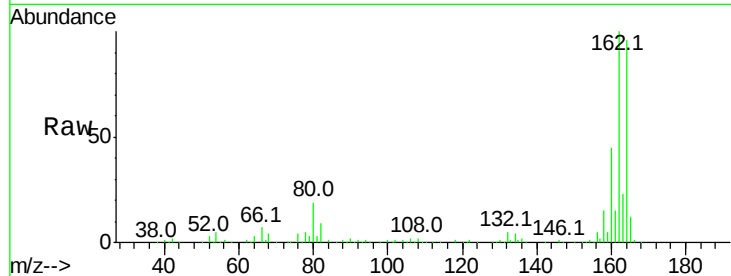




#50
2,6-Dinitrotoluene
Concen: 9.300 ng
RT: 9.84 min Scan# 1318
Delta R.T. 0.21 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

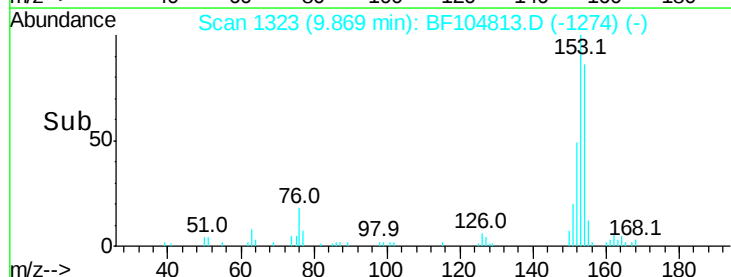
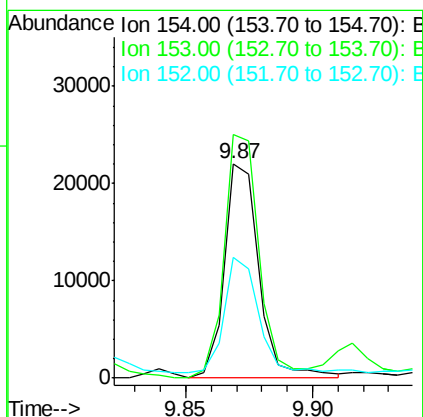
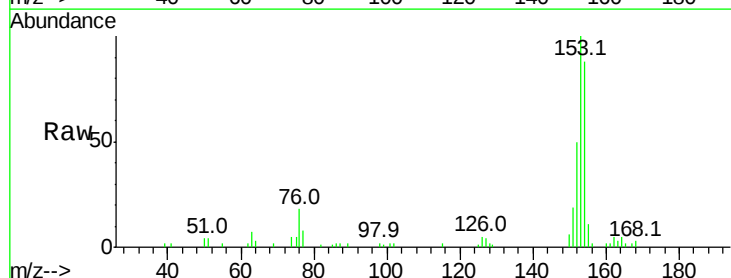
Instrument :
BNA_F
ClientSampleId :

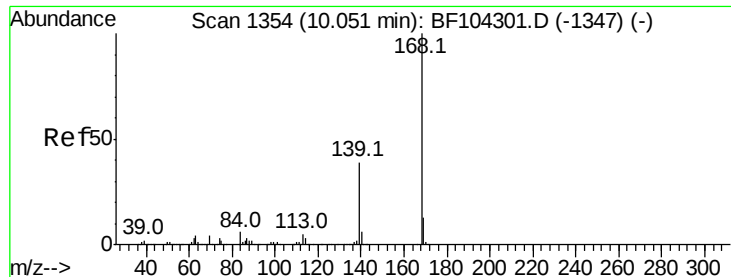
Tot Ion:165 Resp: 21028
Ion Ratio Lower Upper
165 100
63 1.3 44.7 67.1#
89 1.6 44.0 66.0#



#51
Acenaphthene
Concen: 2.135 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion:154 Resp: 21011
Ion Ratio Lower Upper
154 100
153 113.7 91.2 136.8
152 56.6 43.8 65.8





#54

Dibenzofuran

Concen: 2.830 ng

RT: 10.05 min Scan# 1353

Delta R.T. -0.01 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Instrument :

BNA_F

ClientSampleId :

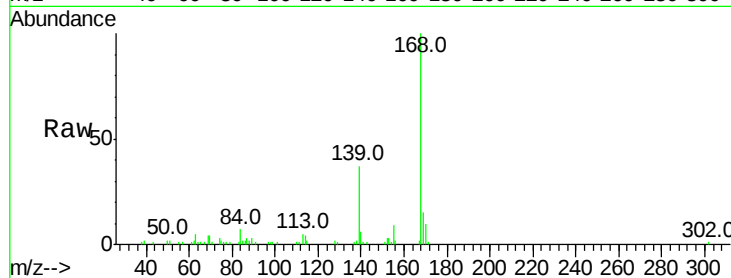
Tot Ion:168 Resp: 38818

Ion Ratio Lower Upper

168 100

139 37.0 30.1 45.1

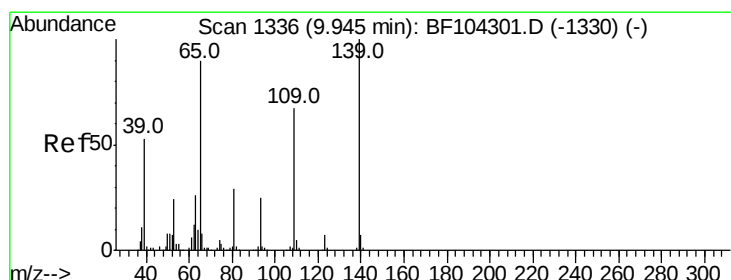
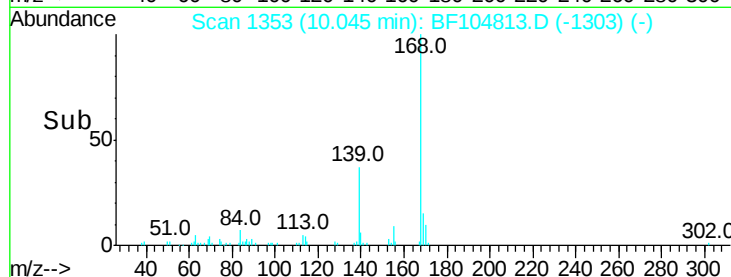
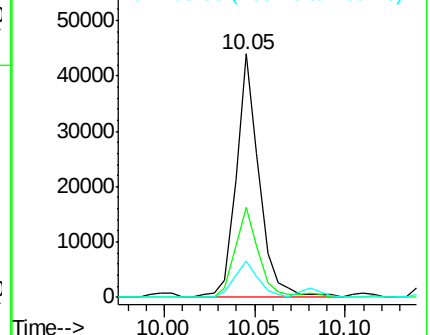
169 14.7 10.9 16.3



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: 7.188 ng

RT: 10.05 min Scan# 1353

Delta R.T. 0.07 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

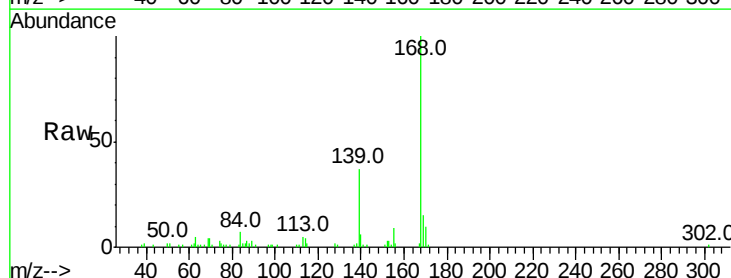
Tgt Ion:139 Resp: 14946

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

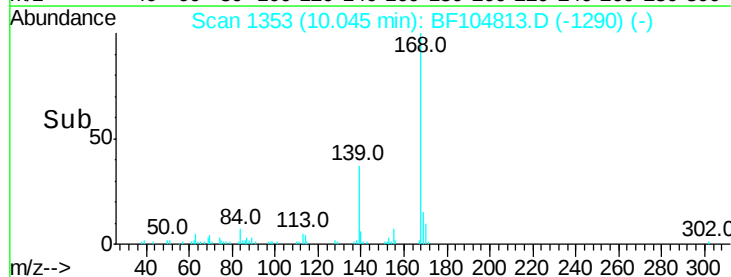
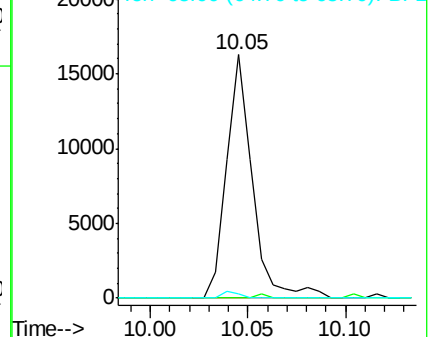
65 2.0 72.6 112.6#

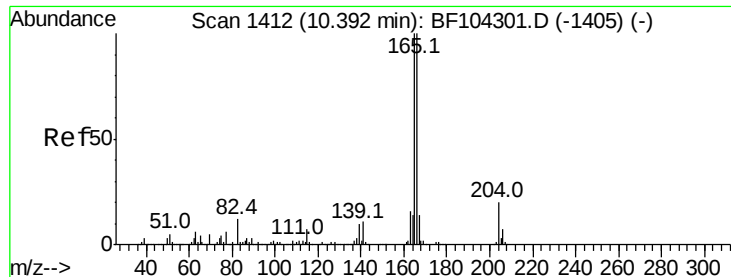


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

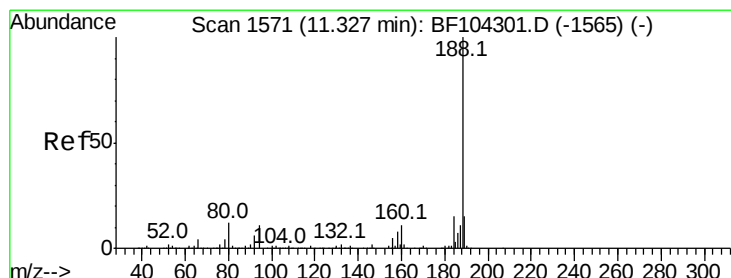
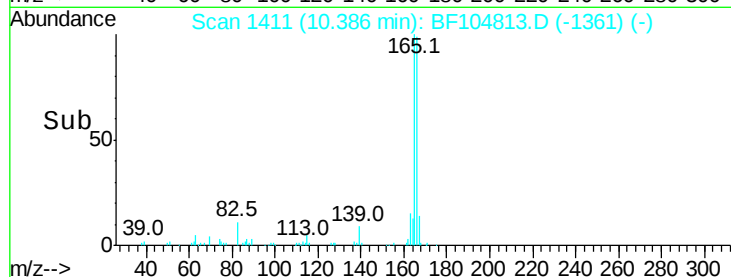
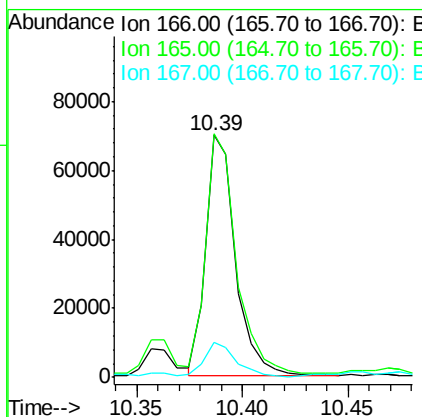
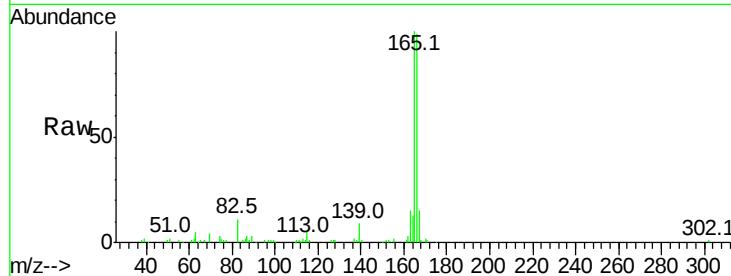




#57
 Fluorene
 Concen: 6.917 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

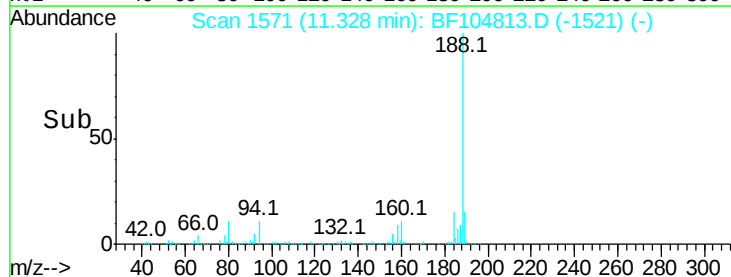
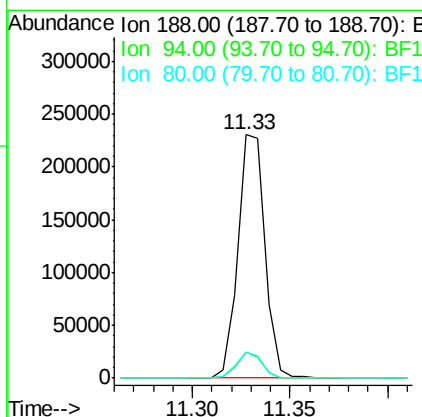
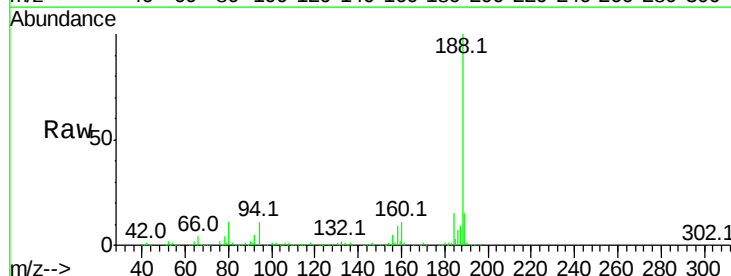
Instrument :
 BNA_F
 ClientSampleId :

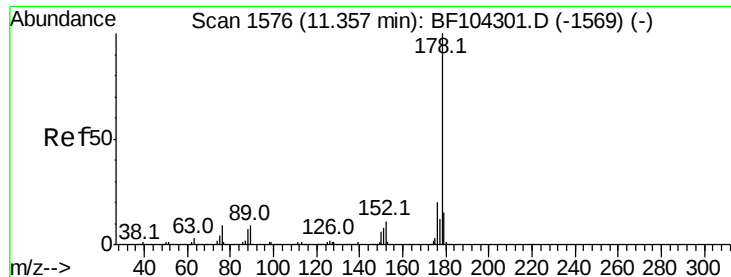
Tot Ion:166 Resp: 69061
 Ion Ratio Lower Upper
 166 100
 165 100.7 79.8 119.8
 167 14.6 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Tgt Ion:188 Resp: 220869
 Ion Ratio Lower Upper
 188 100
 94 10.6 8.5 12.7
 80 10.9 9.2 13.8





#70

Phenanthrene

Concen: 30.802 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Instrument :

BNA_F

ClientSampleId :

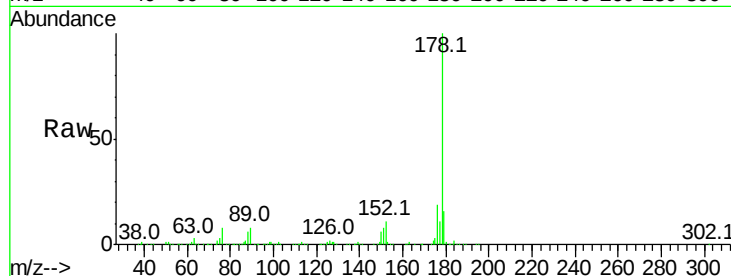
Tot Ion:178 Resp: 378870

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

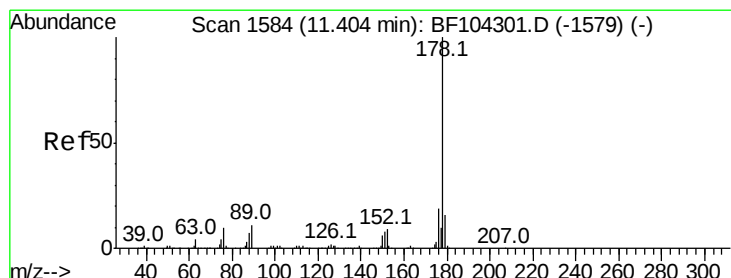
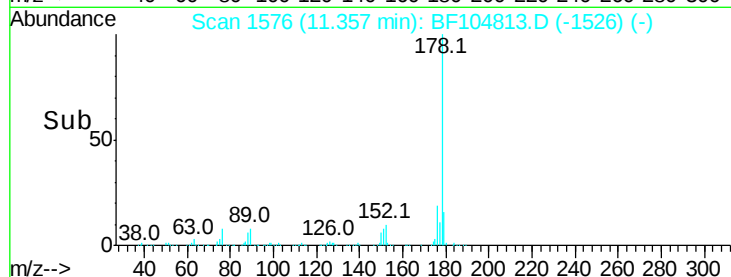
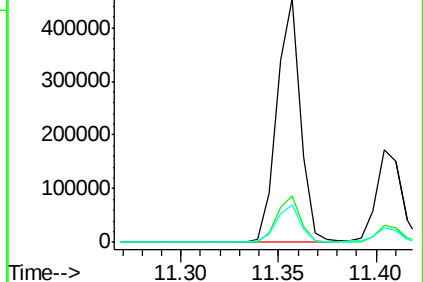
179 15.6 13.0 19.6



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: 12.000 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

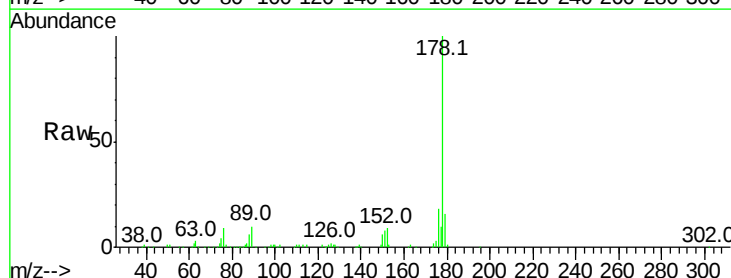
Tgt Ion:178 Resp: 150039

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

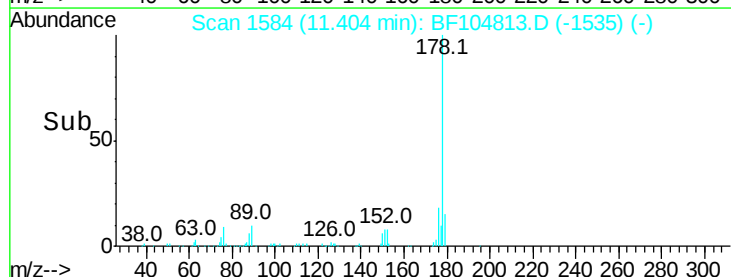
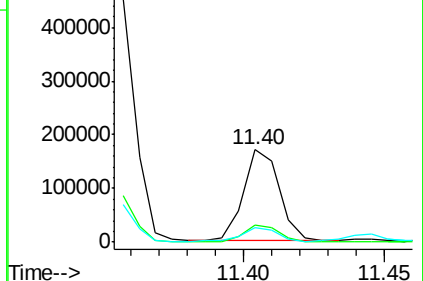
179 15.8 12.6 19.0

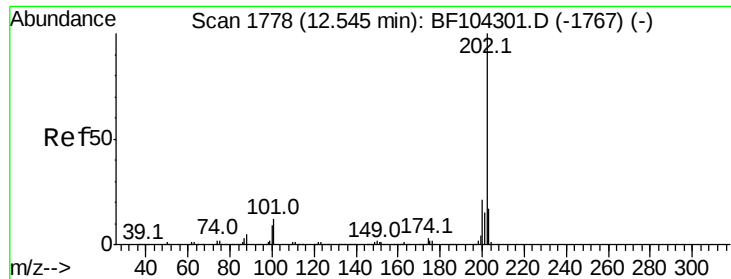


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 47.340 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.00 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Instrument :

BNA_F

ClientSampleId :

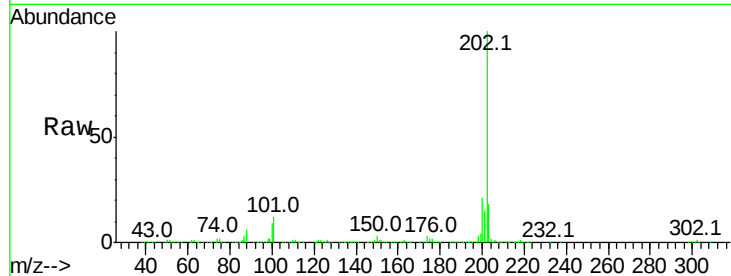
Tot Ion:202 Resp: 608378

Ion Ratio Lower Upper

202 100

101 12.1 0.0 34.1

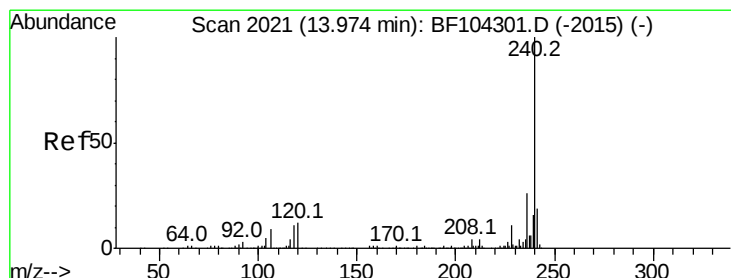
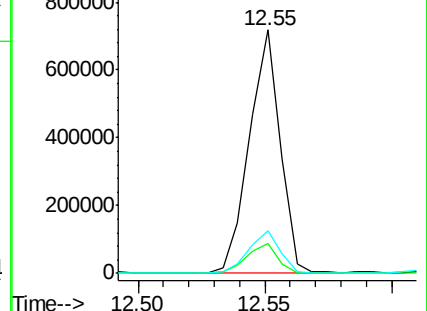
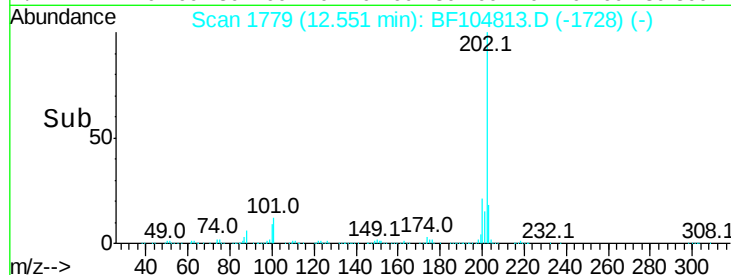
203 17.7 0.0 38.1



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: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

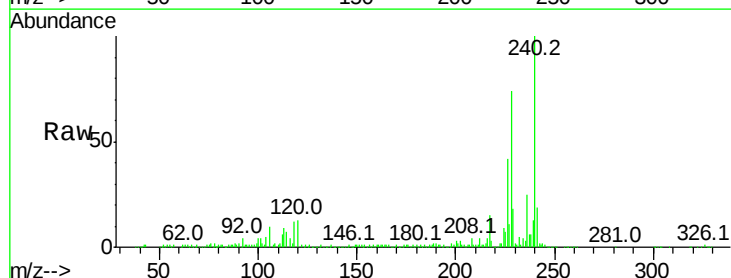
Tgt Ion:240 Resp: 209004

Ion Ratio Lower Upper

240 100

120 13.5 9.5 14.3

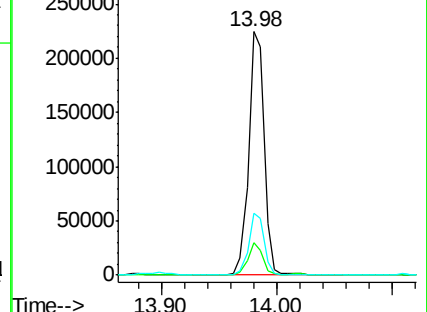
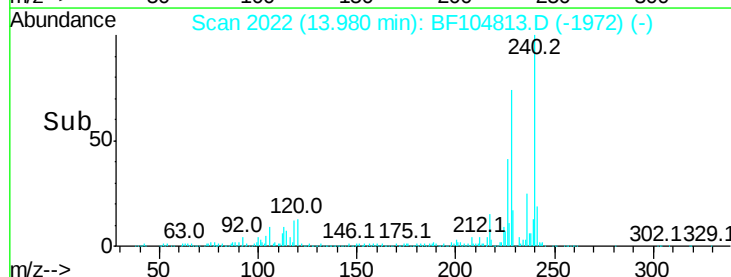
236 25.5 20.7 31.1

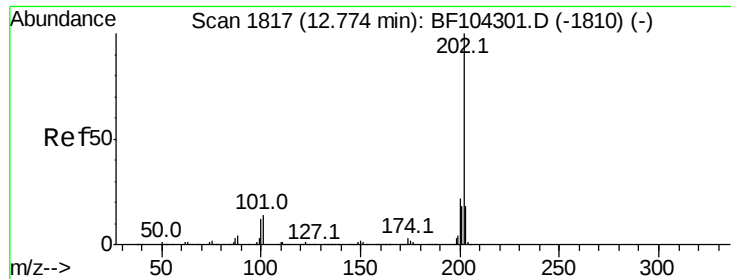


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 42.064 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Instrument :

BNA_F

ClientSampleId :

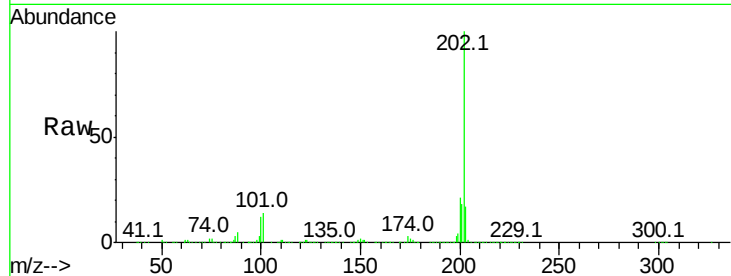
Tot Ion:202 Resp: 651654

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

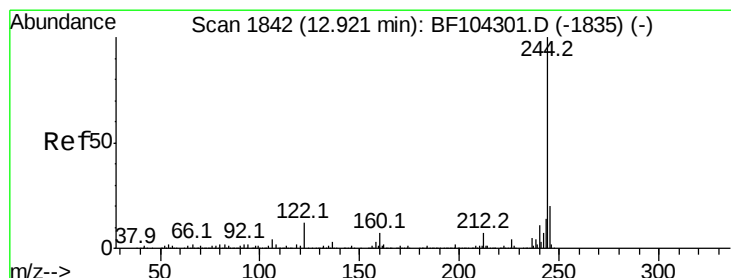
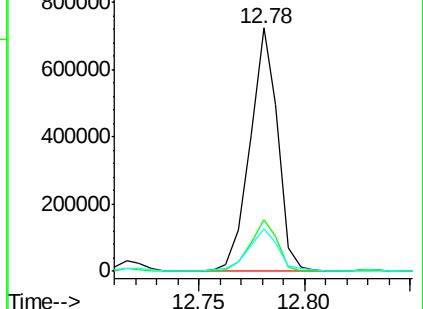
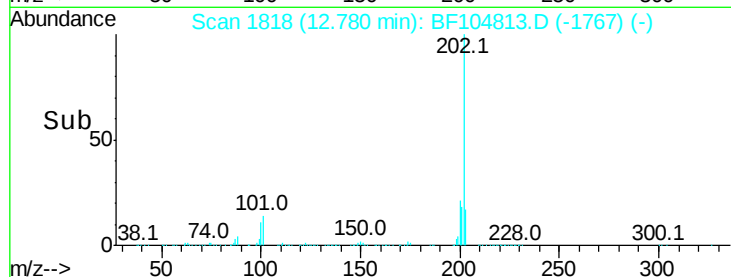
203 17.3 14.3 21.5



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: 1.548 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

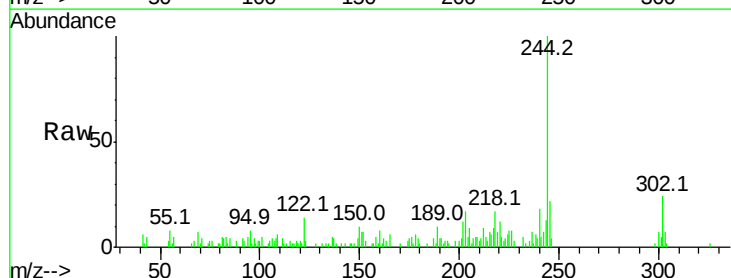
Tgt Ion:244 Resp: 14190

Ion Ratio Lower Upper

244 100

212 9.0 5.4 8.0#

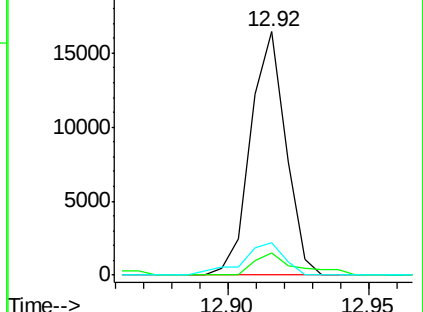
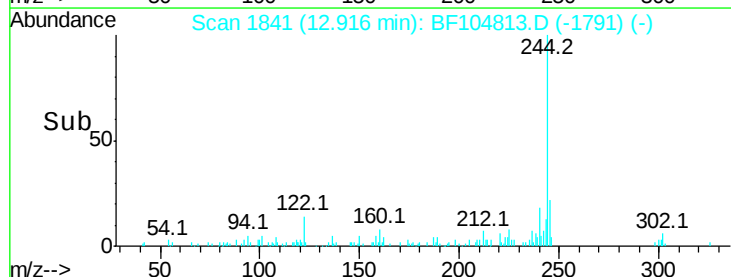
122 13.6 11.0 16.4

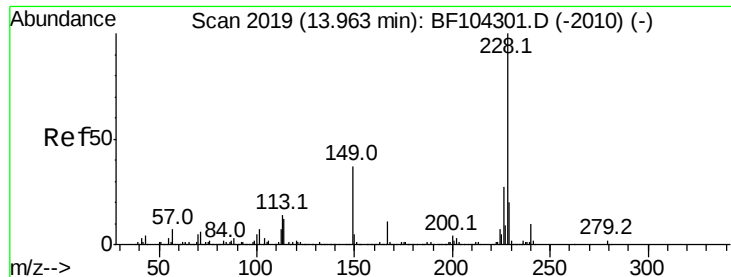


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 28.363 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.04 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Instrument :

BNA_F

ClientSampleId :

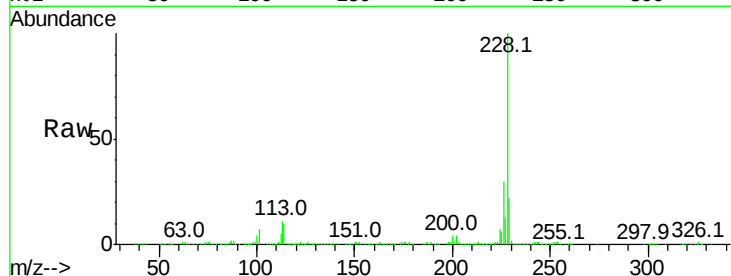
Tot Ion:228 Resp: 354141

Ion Ratio Lower Upper

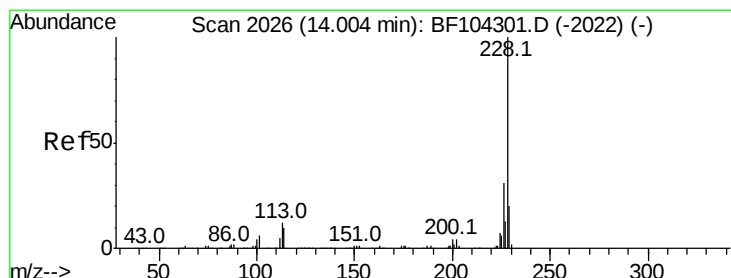
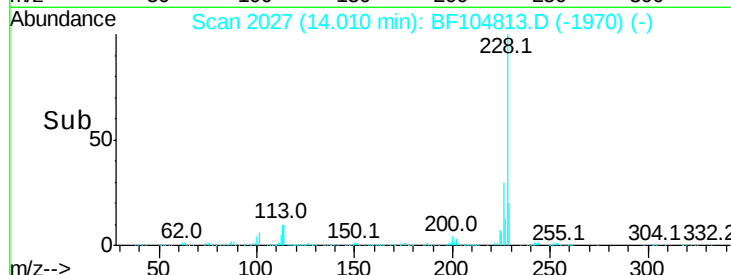
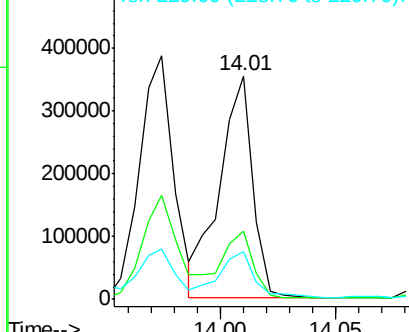
228 100

226 30.5 22.6 33.8

229 21.6 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: 27.613 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

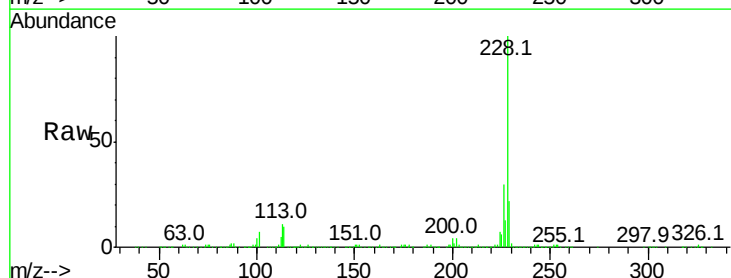
Tgt Ion:228 Resp: 354141

Ion Ratio Lower Upper

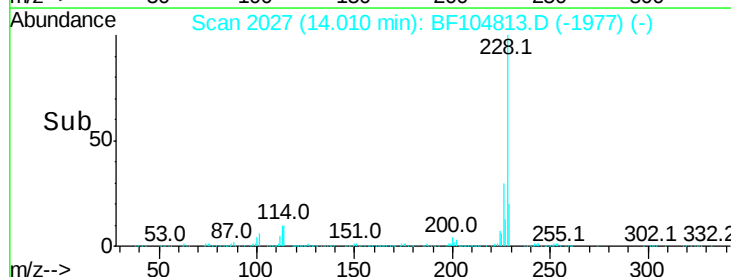
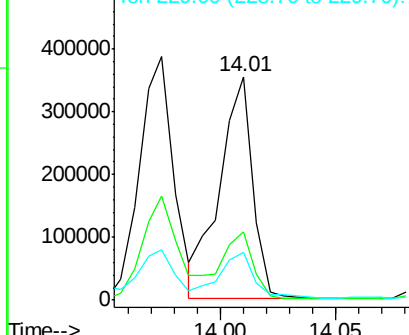
228 100

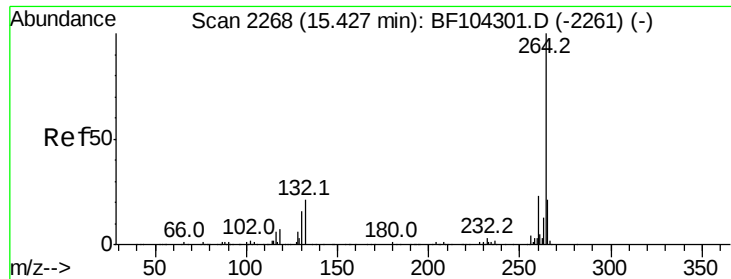
226 30.5 25.0 37.6

229 21.6 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



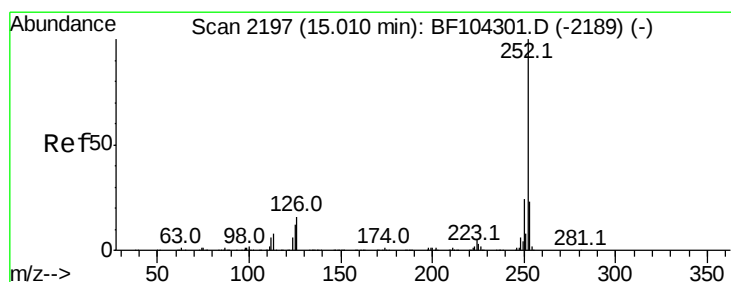
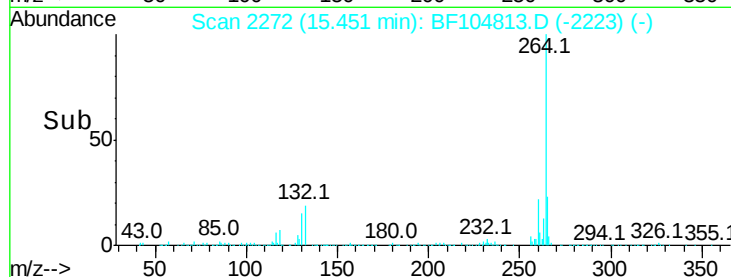
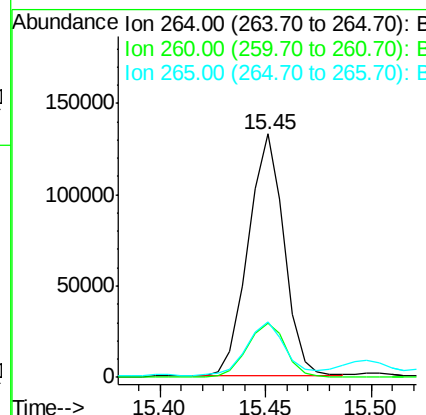
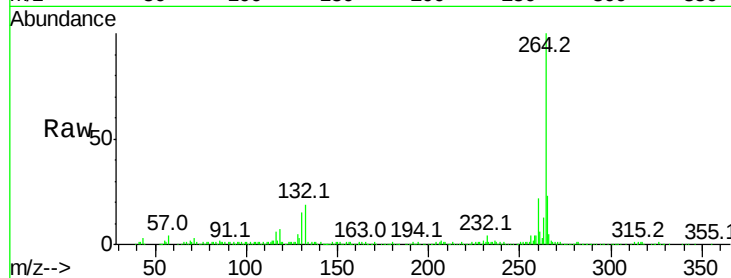


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.45 min Scan# 2272
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 157138

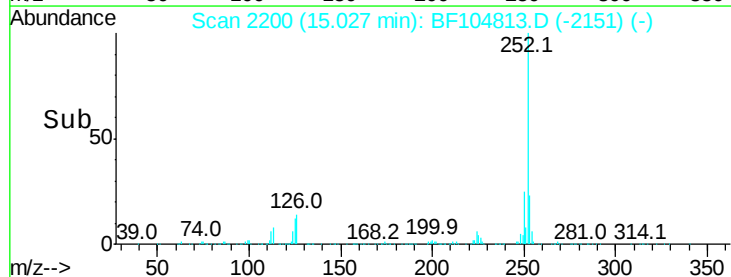
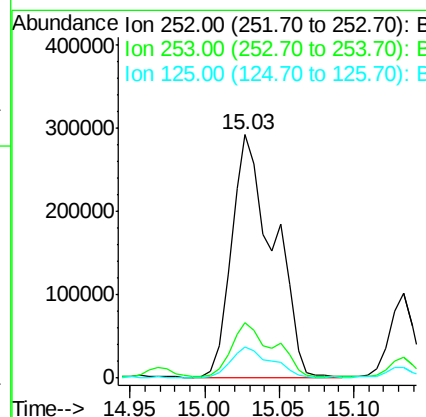
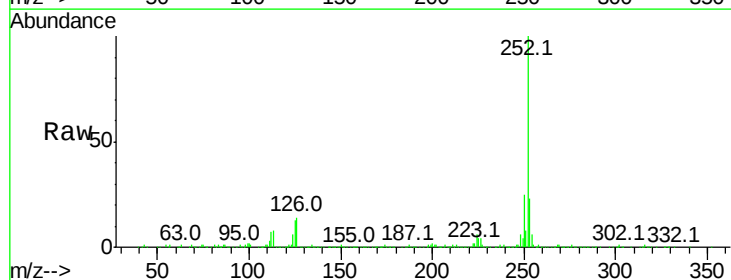
Ion	Ratio	Lower	Upper
264	100		
260	22.4	19.2	28.8
265	22.9	17.5	26.3

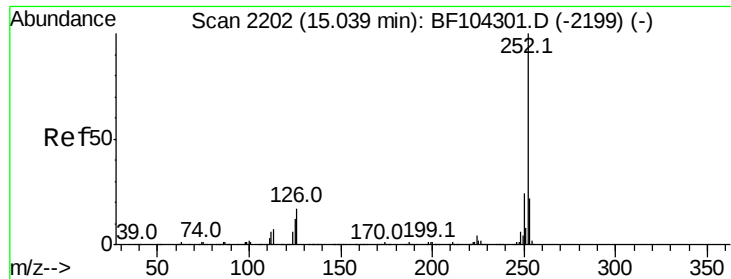


#87
Benzo(b)fluoranthene
Concen: 57.163 ng
RT: 15.03 min Scan# 2200
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion:252 Resp: 567322

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	12.8	9.0	13.6

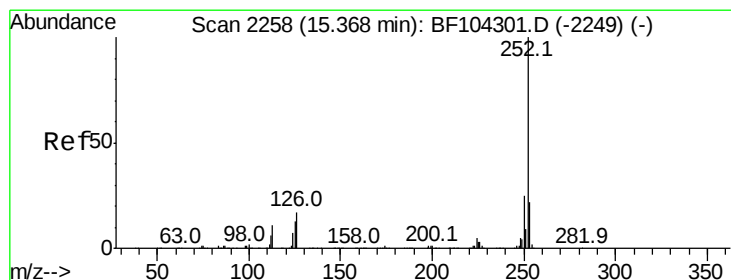
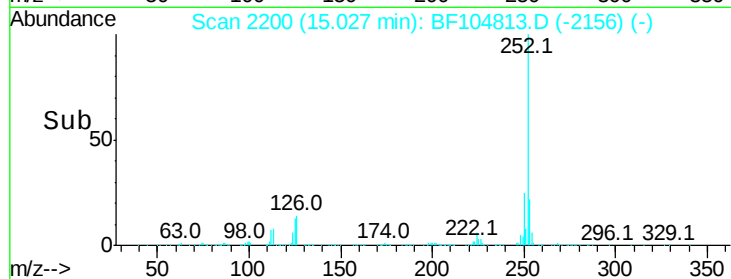
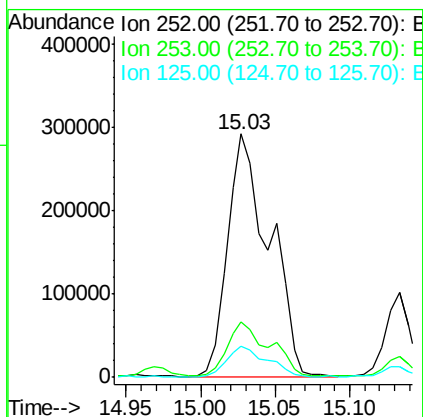
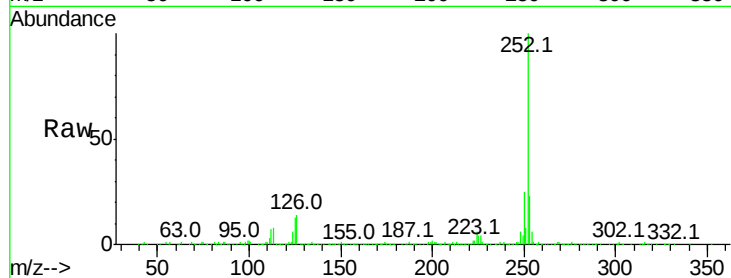




#88
Benzo(k)fluoranthene
Concen: 60.549 ng
RT: 15.03 min Scan# 2200
Delta R.T. -0.04 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

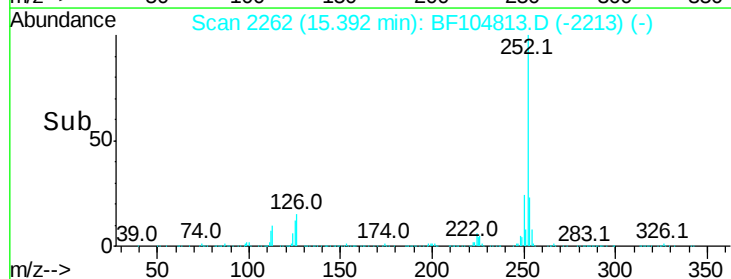
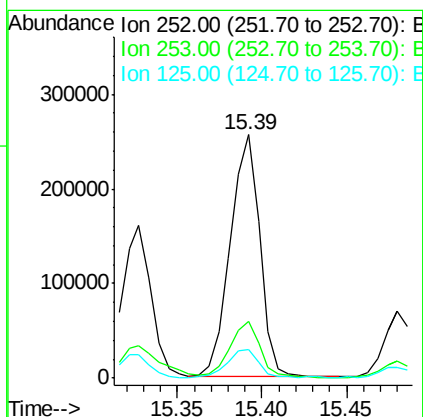
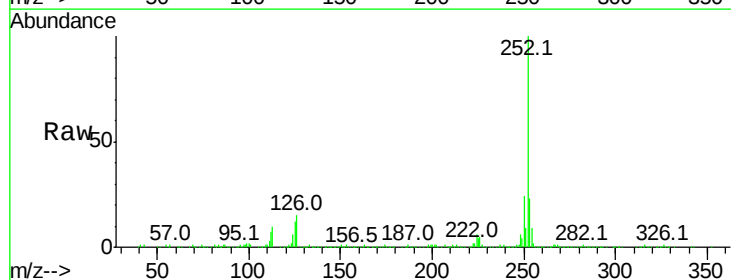
Instrument :
BNA_F
ClientSampleId :

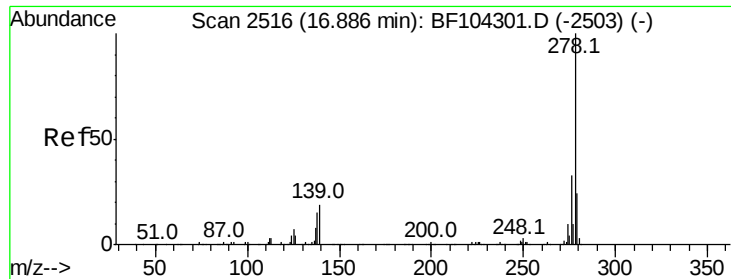
Tot Ion:252 Resp: 567322
Ion Ratio Lower Upper
252 100
253 22.8 17.9 26.9
125 12.8 10.2 15.2



#89
Benzo(a)pyrene
Concen: 35.055 ng
RT: 15.39 min Scan# 2262
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion:252 Resp: 311285
Ion Ratio Lower Upper
252 100
253 23.4 17.1 25.7
125 11.9 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.218 ng

RT: 16.99 min Scan# 2533

Delta R.T. 0.04 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Instrument :

BNA_F

ClientSampleId :

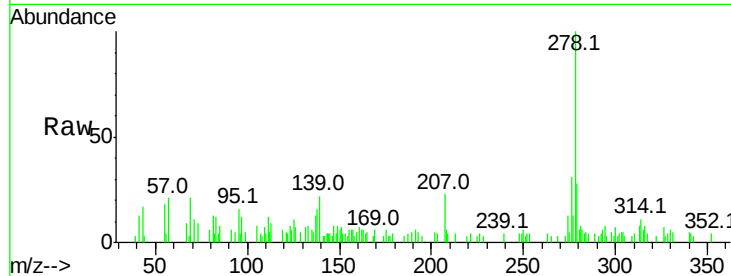
Tot Ion:278 Resp: 16179

Ion Ratio Lower Upper

278 100

139 22.3 15.9 23.9

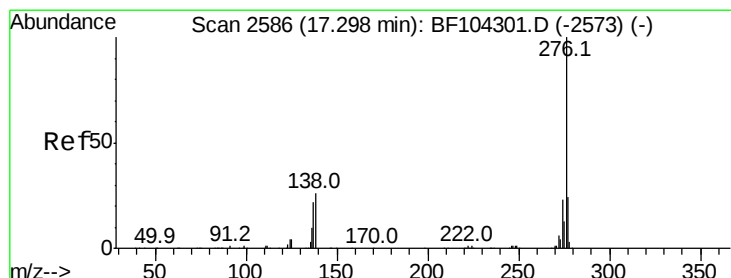
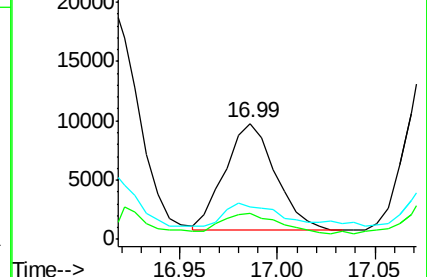
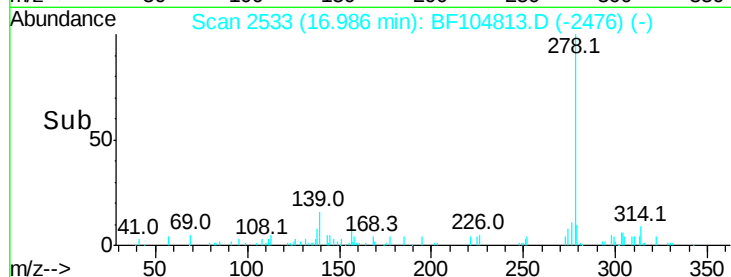
279 27.7 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 21.186 ng

RT: 17.36 min Scan# 2596

Delta R.T. -0.02 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

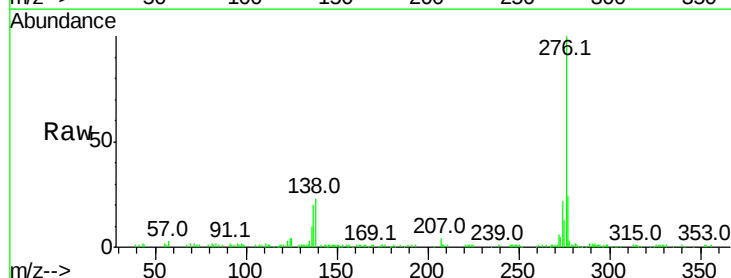
Tgt Ion:276 Resp: 149698

Ion Ratio Lower Upper

276 100

277 23.6 17.9 26.9

138 22.9 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

