

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF073018\  
 Data File : BF107838.D  
 Acq On : 31 Jul 2018 8:51  
 Operator : JU/SJ  
 Sample : J4221-03  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-22

Quant Time: Jul 31 10:49:00 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 30 17:48:53 2018  
 Response via : Initial Calibration

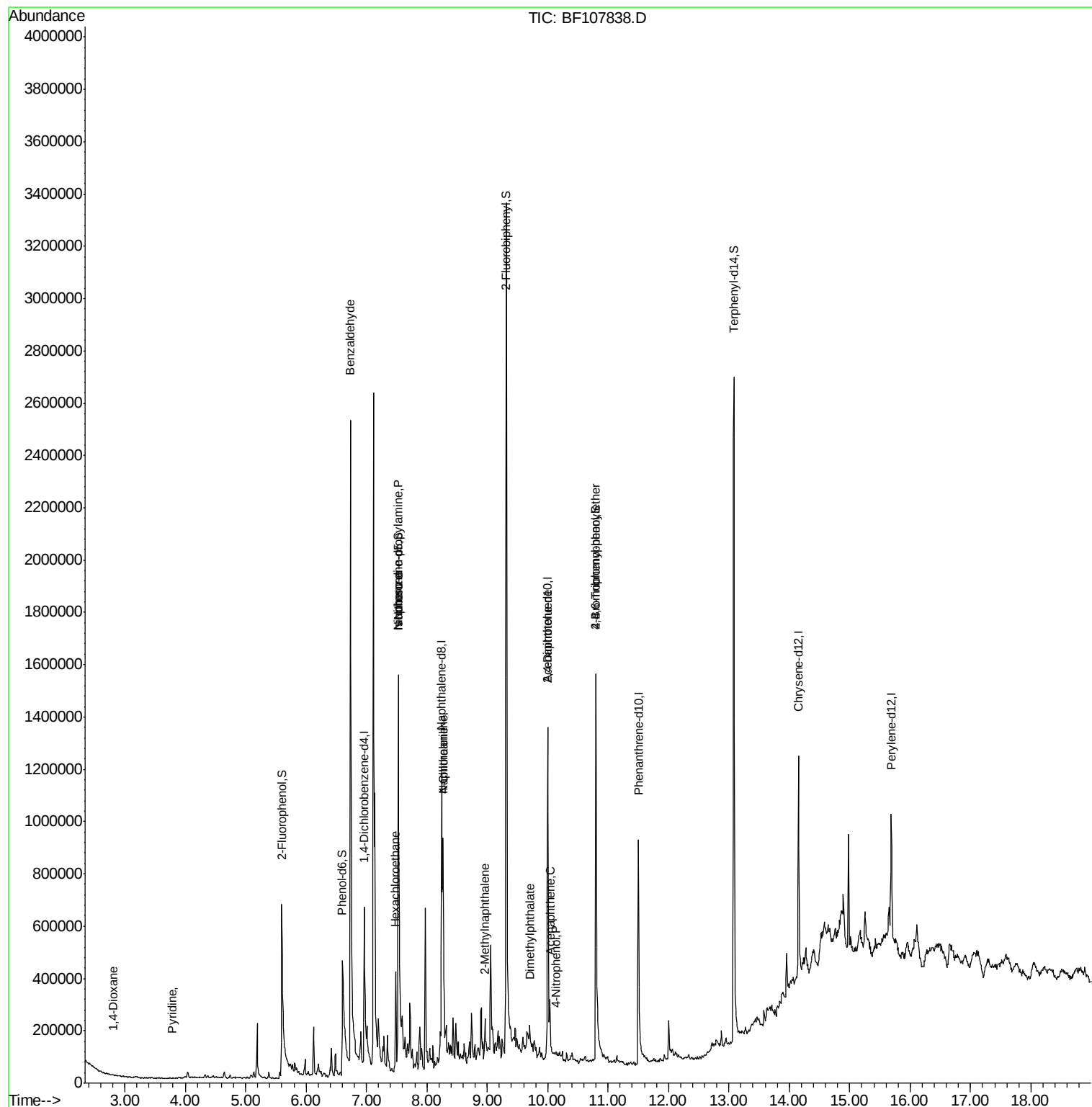
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.97  | 152  | 178091   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.24  | 136  | 723055   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 10.00 | 164  | 291740   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.50 | 188  | 503336   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.15 | 240  | 457886   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.69 | 264  | 361231   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 456756   | 43.59  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.60  | 99   | 477567   | 34.58  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.53  | 82   | 871912   | 69.47  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.80 | 330  | 313678   | 79.13  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.32  | 172  | 1551839  | 74.12  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.08 | 244  | 1142665  | 54.11  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 2.81  | 88   | 2198     | 6.187  | ng    | Qvalue   |
| 3) Pyridine                    | 3.79  | 79   | 109      | 6.262  | ng    | # 32     |
| 9) Benzaldehyde                | 6.74  | 77   | 22129    | 2.656  | ng    | # 1      |
| 18) Hexachloroethane           | 7.49  | 117  | 28569    | 5.172  | ng    | # 82     |
| 19) n-Nitroso-di-n-propylamine | 7.53  | 70   | 109439   | 12.492 | ng    | # 1      |
| 25) Isophorone                 | 7.53  | 82   | 869406   | 42.200 | ng    | # 79     |
| 31) Naphthalene                | 8.27  | 128  | 469819   | 13.978 | ng    | # 64     |
| 33) 4-Chloroaniline            | 8.27  | 127  | 59036    | 4.112  | ng    | # 99     |
| 37) 2-Methylnaphthalene        | 8.96  | 142  | 72993    | 3.457  | ng    | # 38     |
| 49) Dimethylphthalate          | 9.71  | 163  | 48152    | 2.198  | ng    | # 100    |
| 51) Acenaphthene               | 10.04 | 154  | 42619    | 2.364  | ng    | # 98     |
| 55) 4-Nitrophenol              | 10.13 | 139  | 4660     | 10.771 | ng    | # 92     |
| 56) 2,4-Dinitrotoluene         | 10.00 | 165  | 40085    | 6.405  | ng    | # 56     |
| 66) 4-Bromophenyl-phenylether  | 10.80 | 248  | 18326    | 3.124  | ng    | # 24     |
|                                |       |      |          |        |       | # 1      |

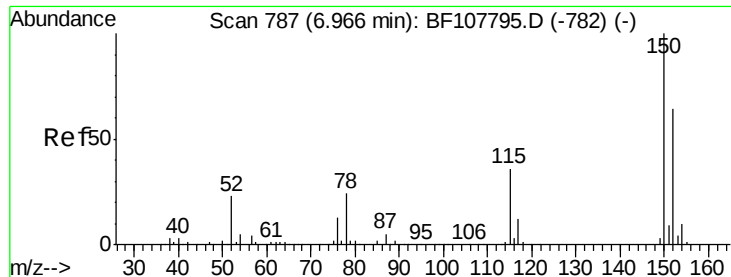
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF073018\  
Data File : BF107838.D  
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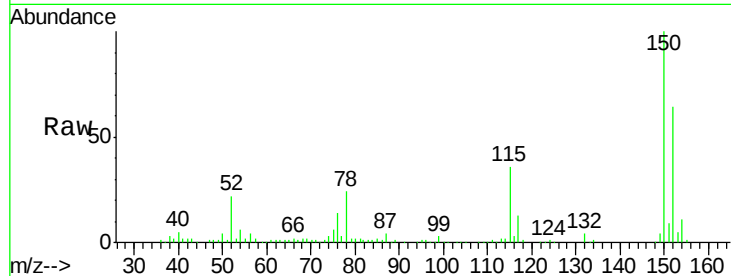


#1

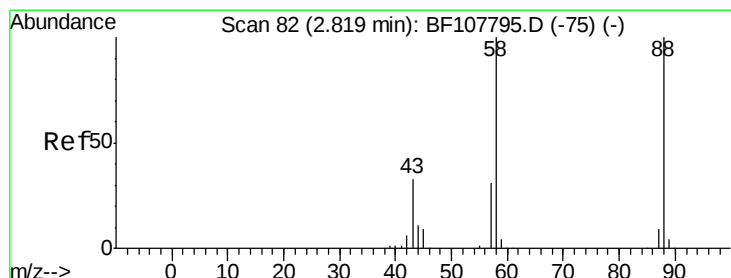
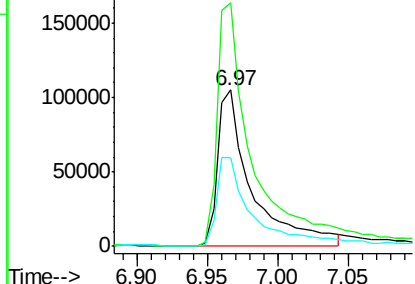
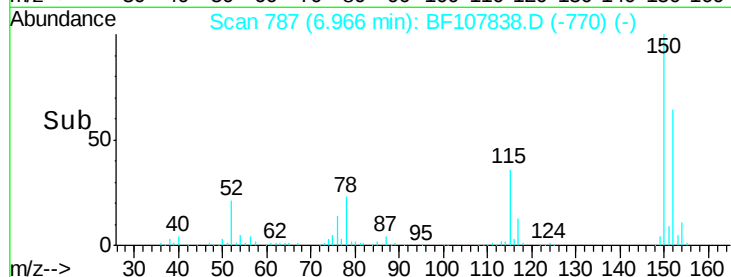
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 787  
Delta R.T. 0.00 min  
Lab File: BF107838.D  
Acq: 31 Jul 2018 8:51

Instrument :  
BNA\_F  
ClientSampleId :  
MW-22

Tgt Ion:152 Resp: 178091  
Ion Ratio Lower Upper  
152 100  
150 155.6 124.6 186.8  
115 56.5 50.1 75.1



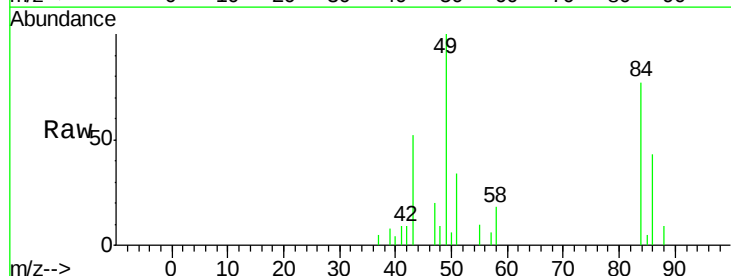
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



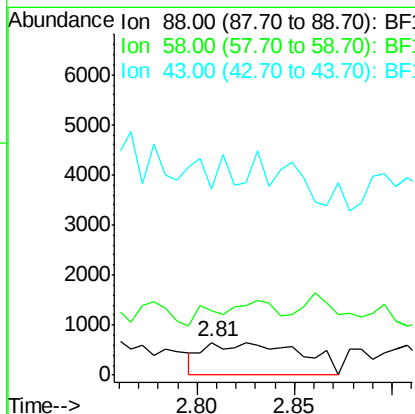
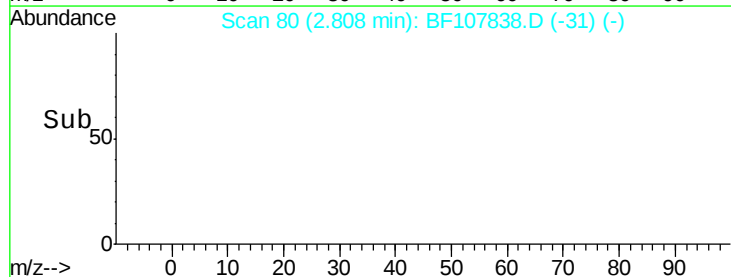
#2

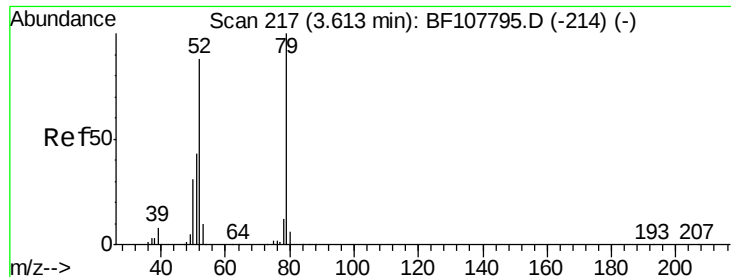
1,4-Dioxane  
Concen: 6.187 ng  
RT: 2.81 min Scan# 80  
Delta R.T. -0.01 min  
Lab File: BF107838.D  
Acq: 31 Jul 2018 8:51

Tgt Ion: 88 Resp: 2198  
Ion Ratio Lower Upper  
88 100  
58 14.9 62.6 93.8#  
43 0.0 24.6 37.0#



Abundance Ion 88.00 (87.70 to 88.70): BF1  
Ion 58.00 (57.70 to 58.70): BF1  
Ion 43.00 (42.70 to 43.70): BF1





#3

Pyridine

Concen: 6.262 ng

RT: 3.79 min Scan# 247

Delta R.T. 0.18 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

Instrument :

BNA\_F

ClientSampleId :

MW-22

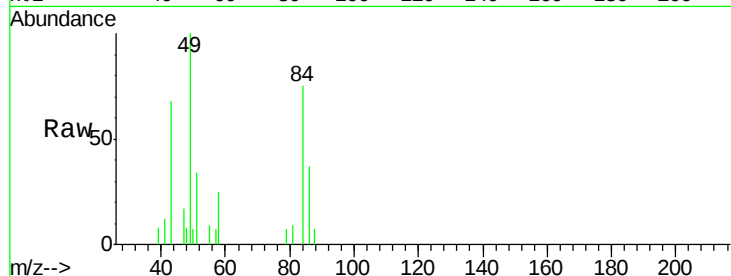
Tgt Ion: 79 Resp: 109

Ion Ratio Lower Upper

79 100

52 0.0 59.8 89.6#

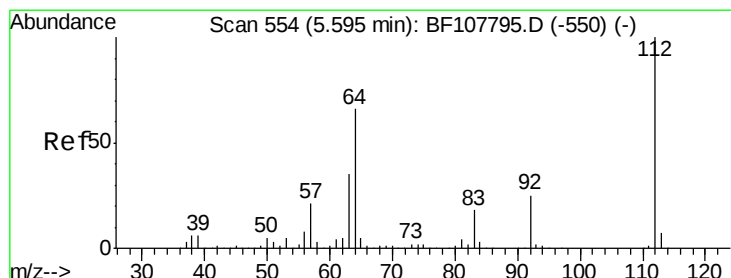
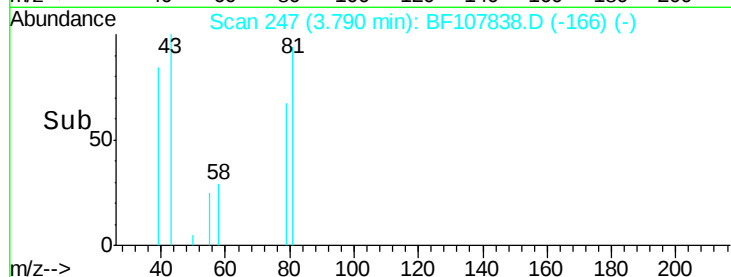
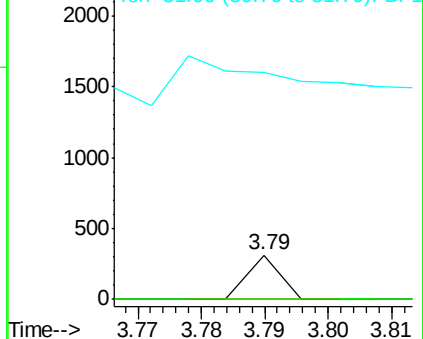
51 516.8 29.8 44.8#



Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 52.00 (51.70 to 52.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#5

2-Fluorophenol

Concen: 43.589 ng

RT: 5.60 min Scan# 555

Delta R.T. 0.01 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

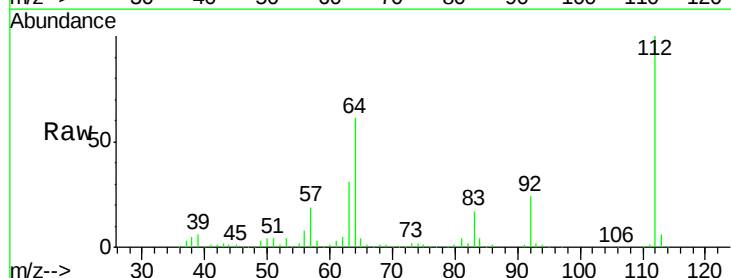
Tgt Ion: 112 Resp: 456756

Ion Ratio Lower Upper

112 100

64 60.6 47.9 71.9

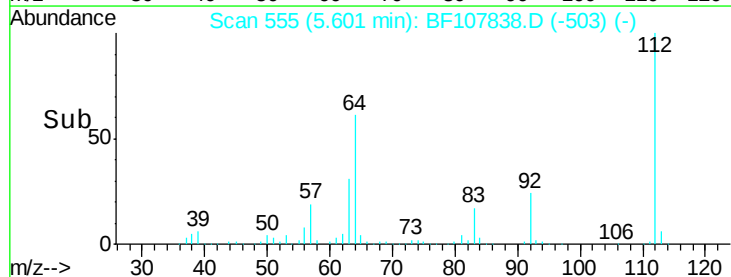
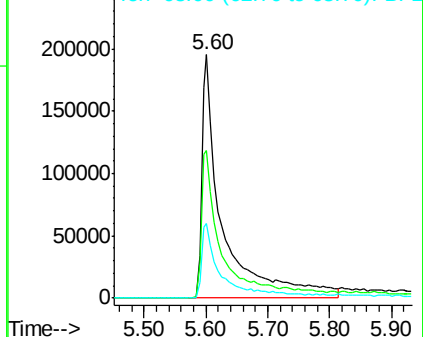
63 30.8 23.7 35.5

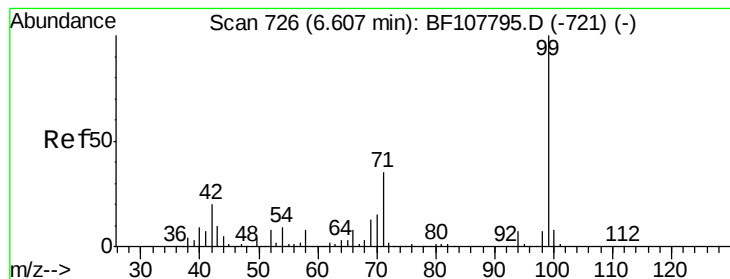


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 34.580 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

Instrument :

BNA\_F

ClientSampleId :

MW-22

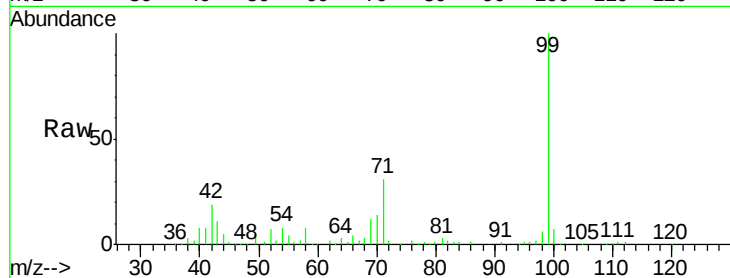
Tgt Ion: 99 Resp: 477567

Ion Ratio Lower Upper

99 100

42 19.1 14.5 21.7

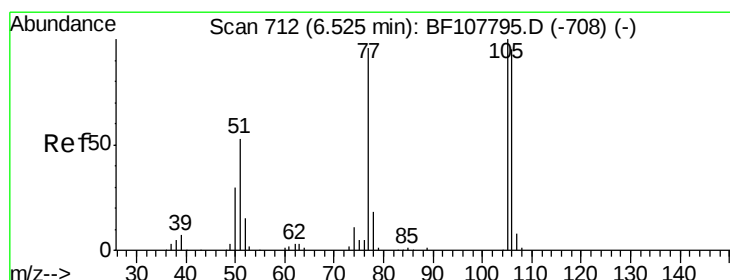
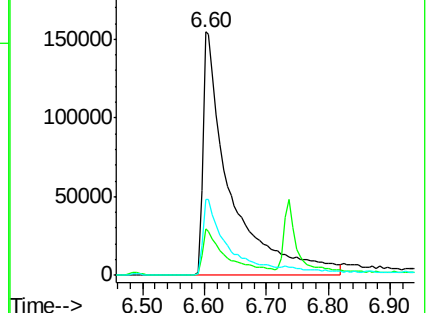
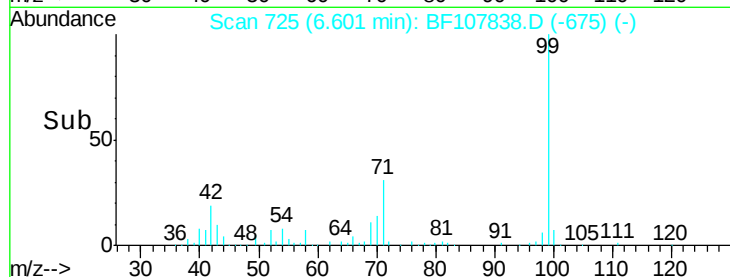
71 31.0 25.4 38.0



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



#9

Benzaldehyde

Concen: 2.656 ng

RT: 6.74 min Scan# 748

Delta R.T. 0.21 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

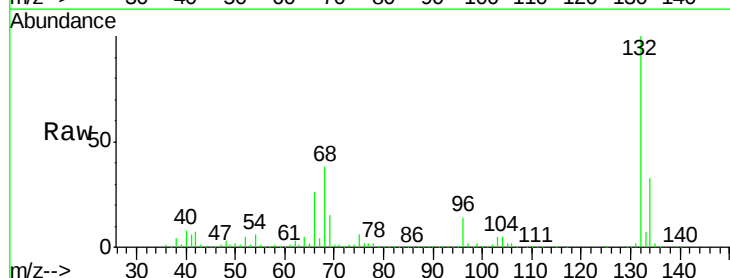
Tgt Ion: 77 Resp: 22129

Ion Ratio Lower Upper

77 100

105 82.9 81.1 121.1

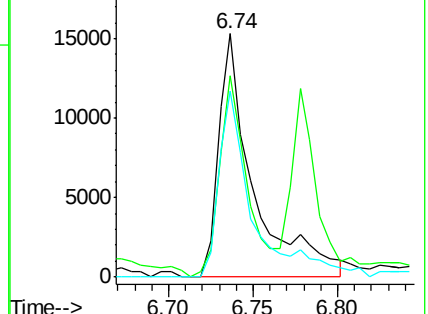
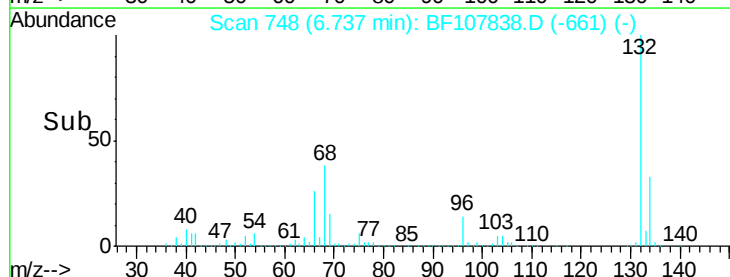
106 76.6 74.5 114.5

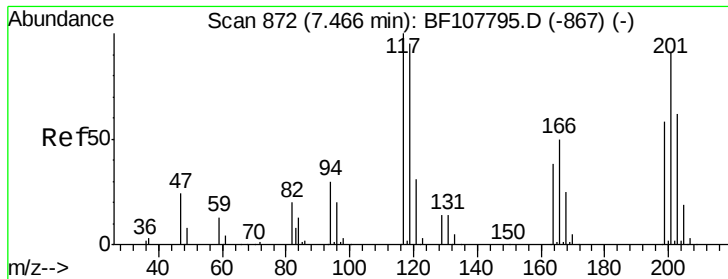


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1

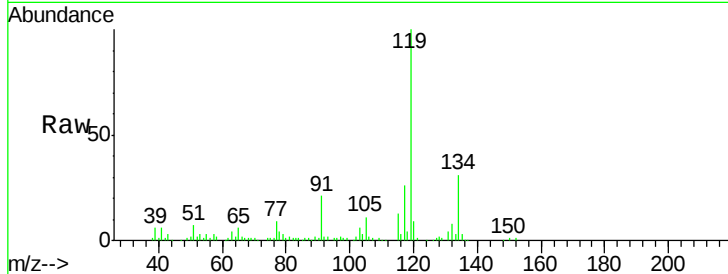




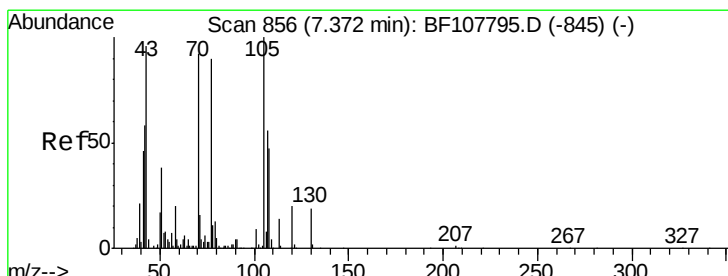
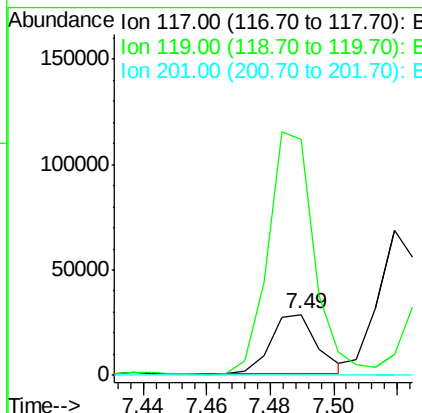
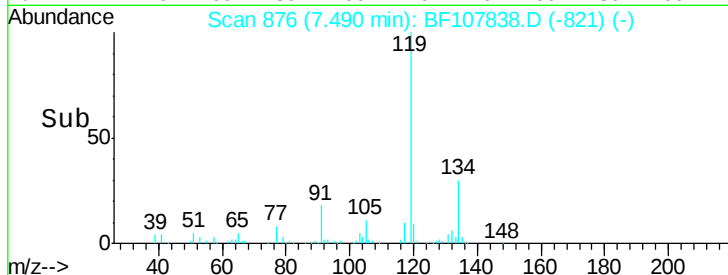
#18  
Hexachloroethane  
Concen: 5.172 ng  
RT: 7.49 min Scan# 876  
Delta R.T. 0.02 min  
Lab File: BF107838.D  
Acq: 31 Jul 2018 8:51

Instrument :  
BNA\_F  
ClientSampleId :  
MW-22

Tgt Ion:117 Resp: 28569  
Ion Ratio Lower Upper  
117 100  
119 389.0 75.8 113.8#  
201 0.0 75.7 113.5#

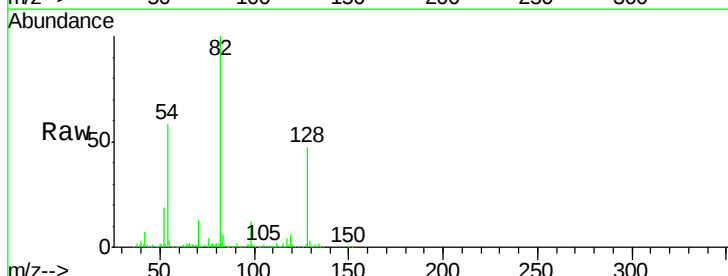


Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

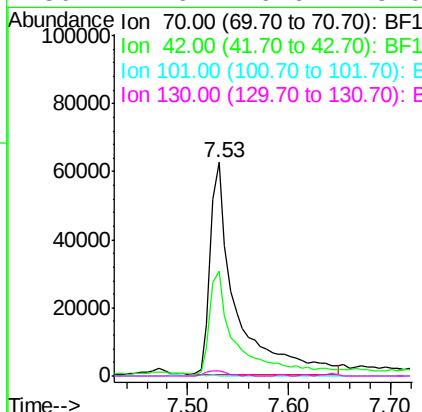
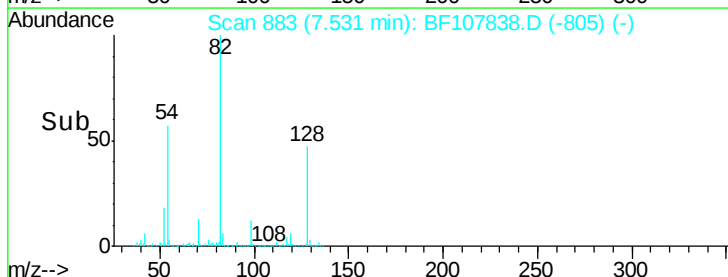


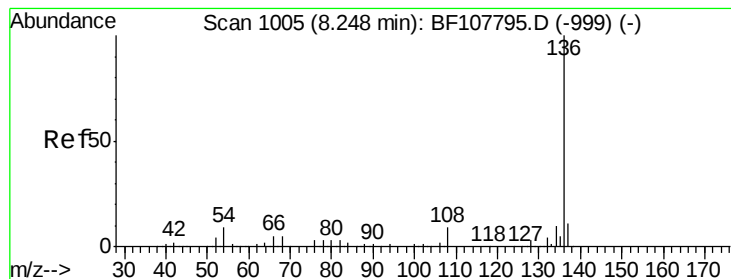
#19  
n-Nitroso-di-n-propylamine  
Concen: 12.492 ng  
RT: 7.53 min Scan# 883  
Delta R.T. 0.16 min  
Lab File: BF107838.D  
Acq: 31 Jul 2018 8:51

Tgt Ion: 70 Resp: 109439  
Ion Ratio Lower Upper  
70 100  
42 49.2 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.6 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): E  
Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

Instrument :

BNA\_F

ClientSampleId :

MW-22

Tgt Ion: 136 Resp: 723055

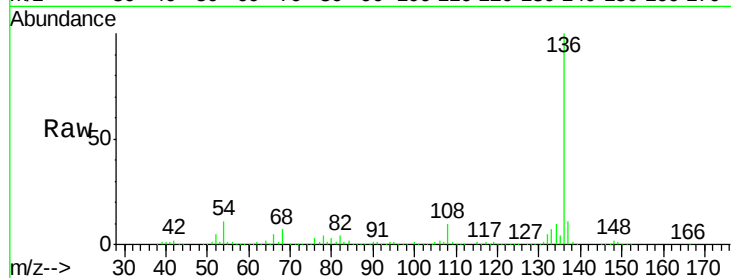
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 10.5 6.6 9.8#

68 6.8 5.0 7.4

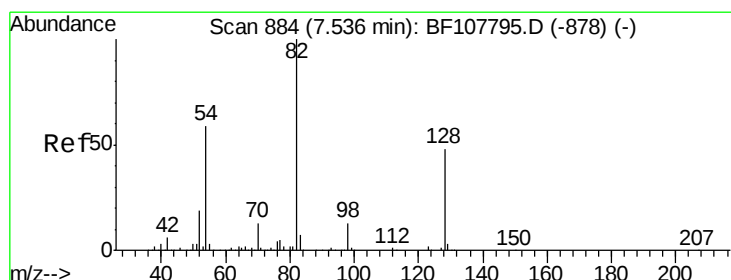
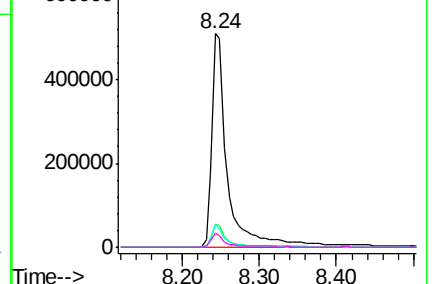
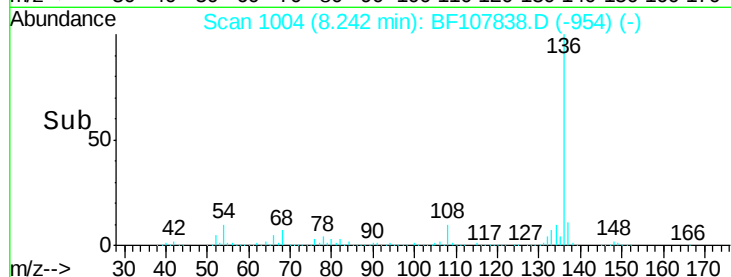


Abundance Ion 136.00 (135.70 to 136.70): E

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: 69.471 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

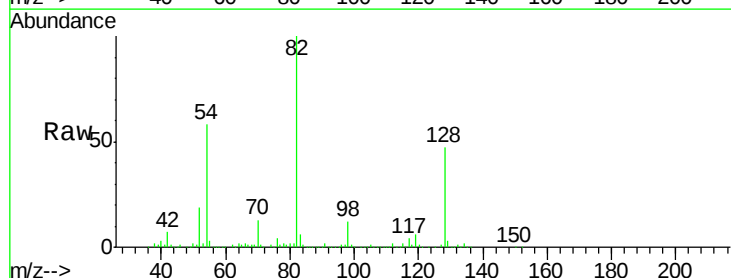
Tgt Ion: 82 Resp: 871912

Ion Ratio Lower Upper

82 100

128 46.9 36.1 54.1

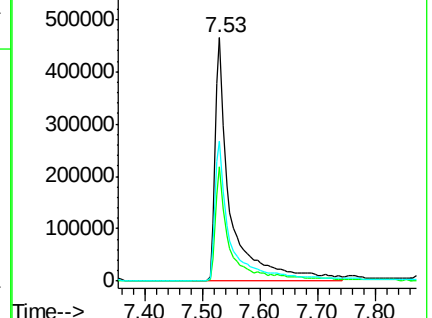
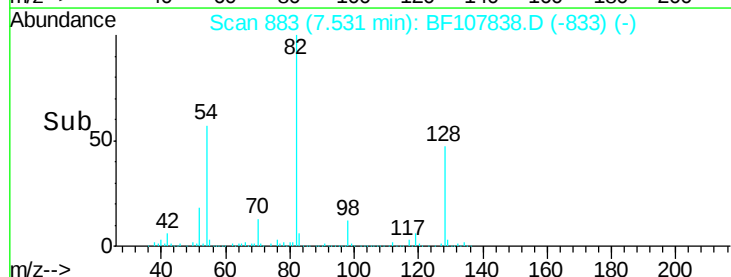
54 57.6 41.4 62.2

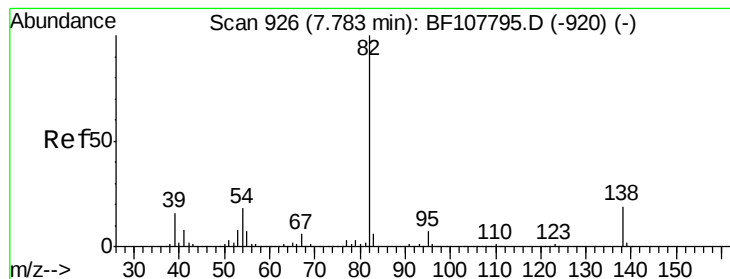


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 42.200 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.25 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

Instrument :

BNA\_F

ClientSampled :

MW-22

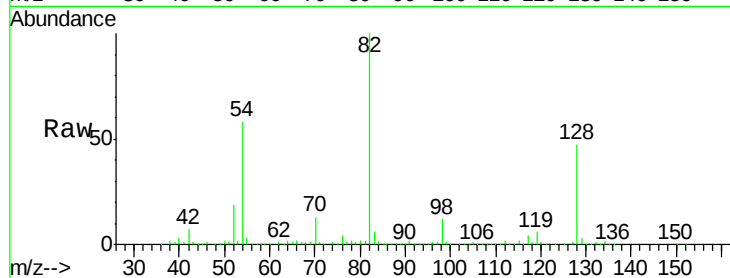
Tgt Ion: 82 Resp: 869406

Ion Ratio Lower Upper

82 100

95 0.2 5.2 7.8#

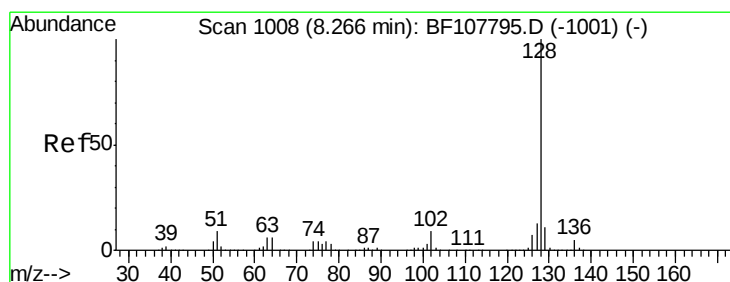
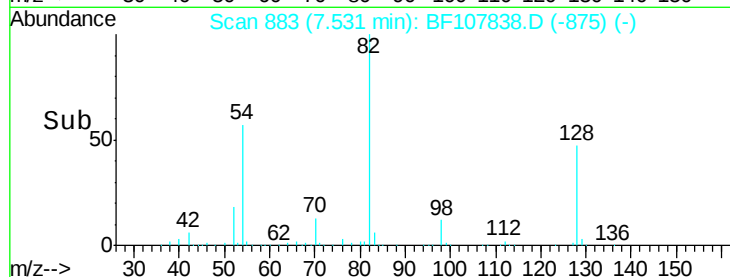
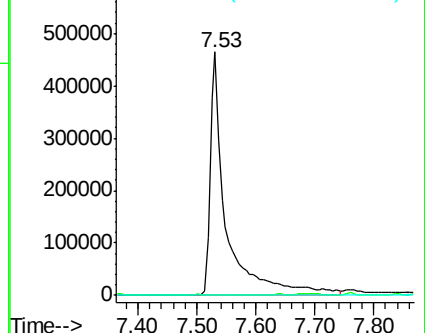
138 0.0 14.9 22.3#



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: 13.978 ng

RT: 8.27 min Scan# 1008

Delta R.T. 0.00 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

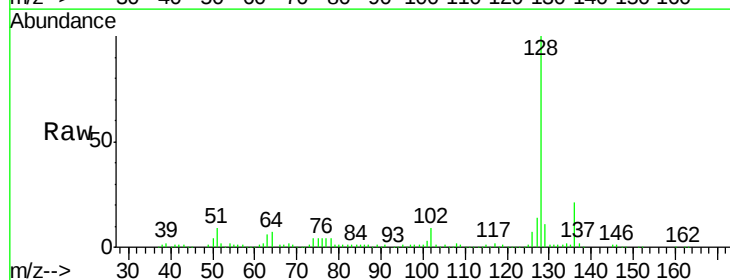
Tgt Ion: 128 Resp: 469819

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

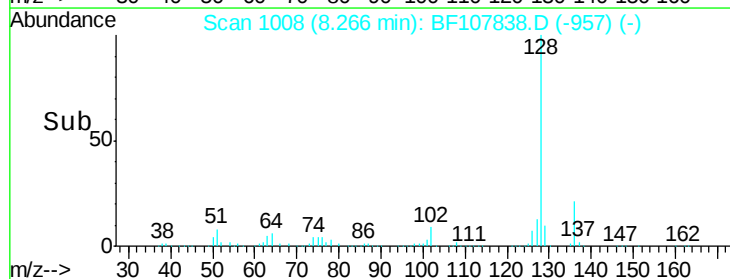
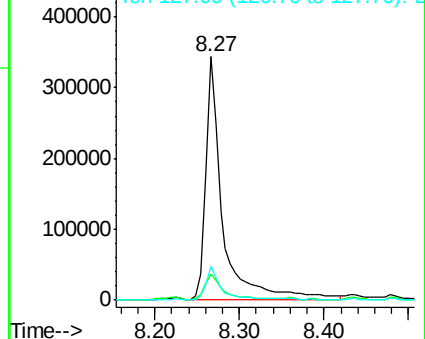
127 13.8 10.9 16.3

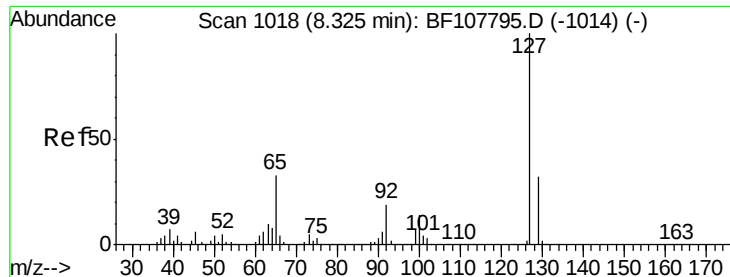


Abundance Ion 128.00 (127.70 to 128.70): BF1

Ion 129.00 (128.70 to 129.70): BF1

Ion 127.00 (126.70 to 127.70): BF1

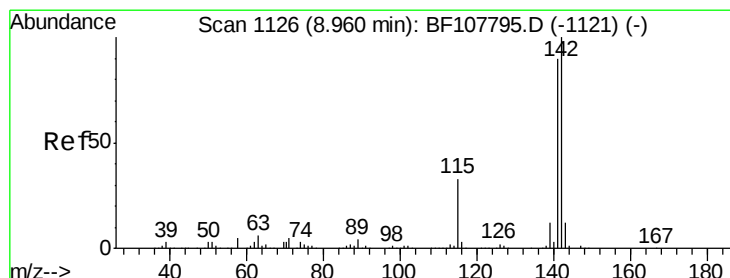
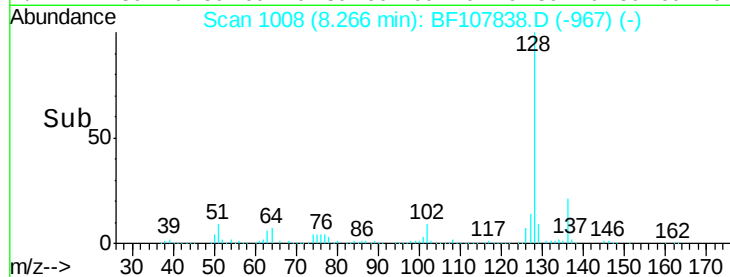
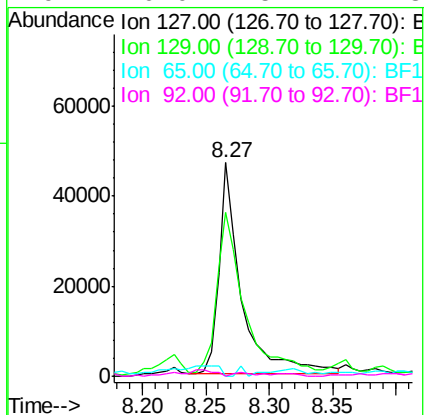
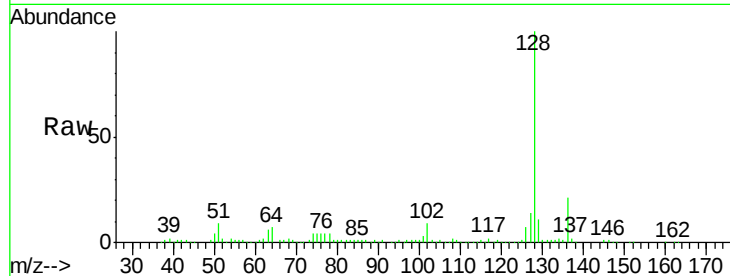




#33  
4-Chloroaniline  
Concen: 4.112 ng  
RT: 8.27 min Scan# 1008  
Delta R.T. -0.06 min  
Lab File: BF107838.D  
Acq: 31 Jul 2018 8:51

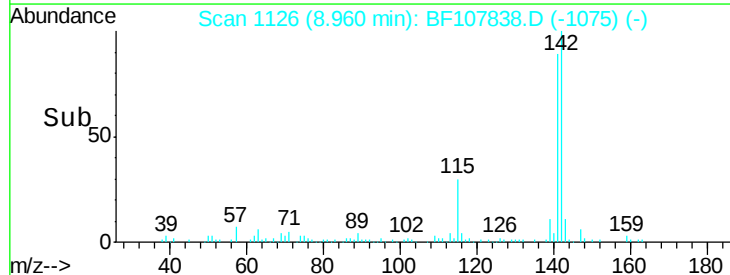
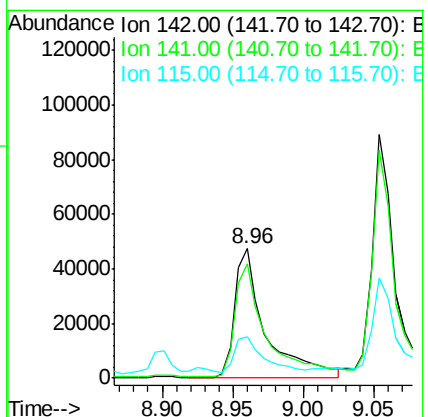
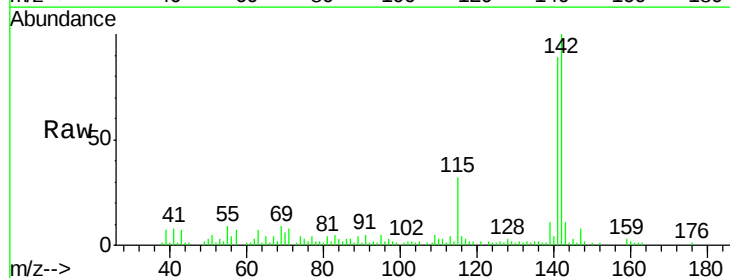
Instrument :  
BNA\_F  
ClientSampled :  
MW-22

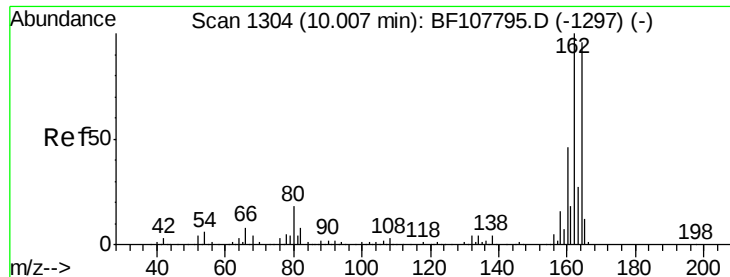
Tgt Ion:127 Resp: 59036  
Ion Ratio Lower Upper  
127 100  
129 76.9 25.9 38.9#  
65 0.0 25.0 37.4#  
92 0.0 15.2 22.8#



#37  
2-Methylnaphthalene  
Concen: 3.457 ng  
RT: 8.96 min Scan# 1126  
Delta R.T. 0.00 min  
Lab File: BF107838.D  
Acq: 31 Jul 2018 8:51

Tgt Ion:142 Resp: 72993  
Ion Ratio Lower Upper  
142 100  
141 88.8 70.8 106.2  
115 32.1 26.1 39.1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.00 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

Instrument :

BNA\_F

ClientSampleId :

MW-22

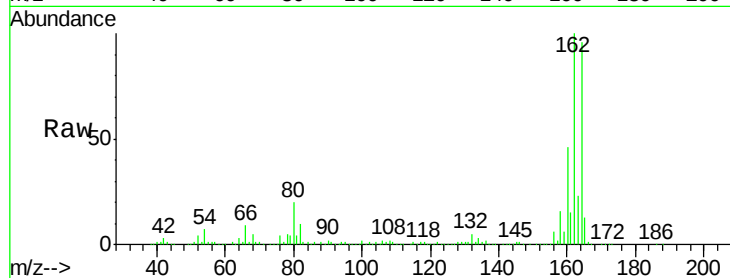
Tgt Ion:164 Resp: 291740

Ion Ratio Lower Upper

164 100

162 104.0 86.1 129.1

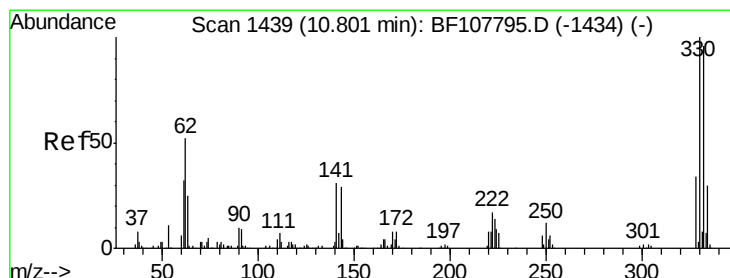
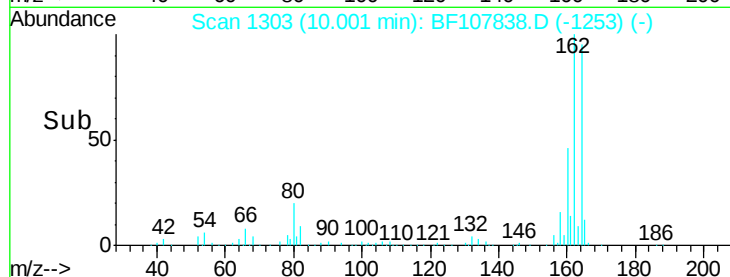
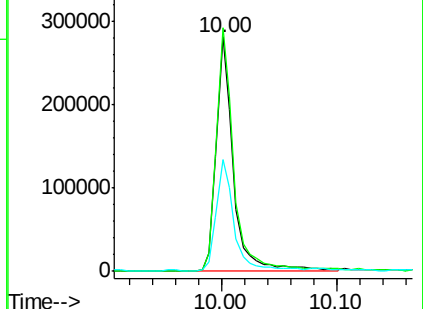
160 47.6 38.3 57.5



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: 79.129 ng

RT: 10.80 min Scan# 1439

Delta R.T. 0.00 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

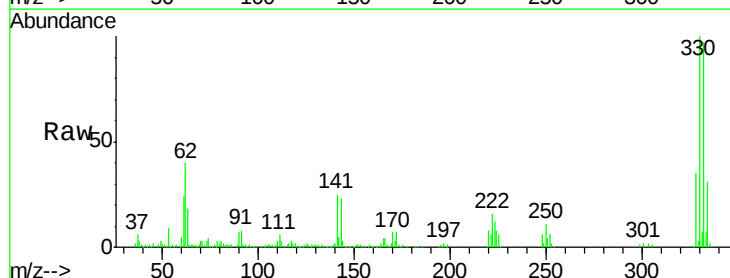
Tgt Ion:330 Resp: 313678

Ion Ratio Lower Upper

330 100

332 96.9 77.0 115.6

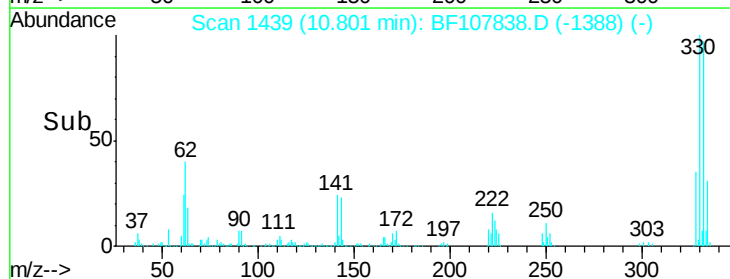
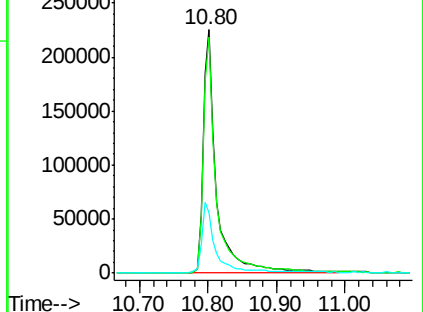
141 29.0 29.9 44.9#

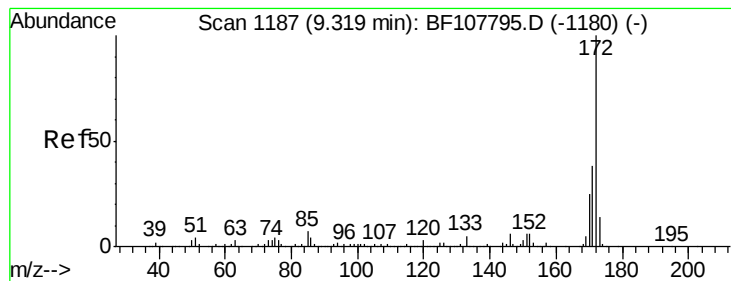


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

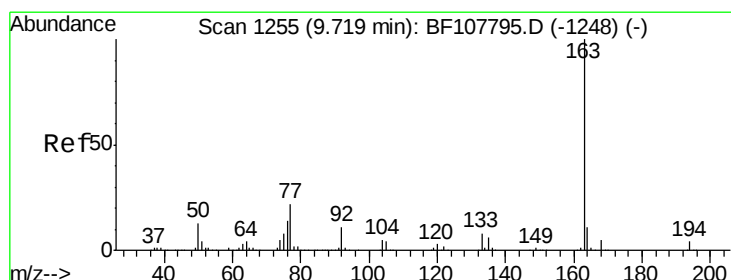
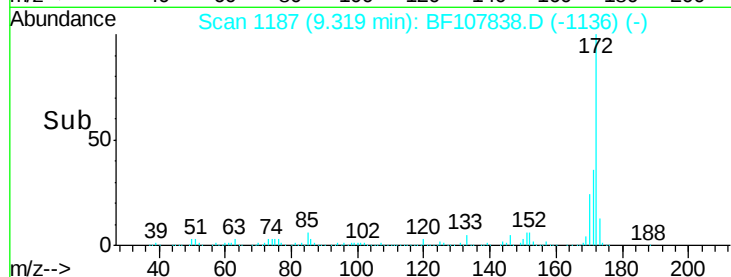
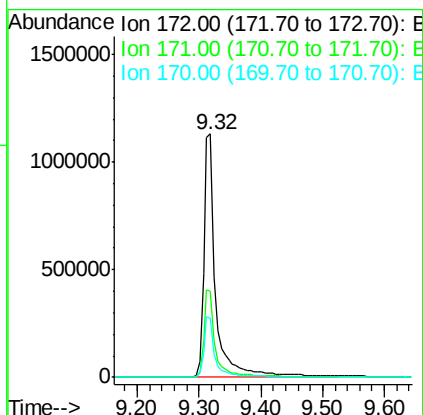
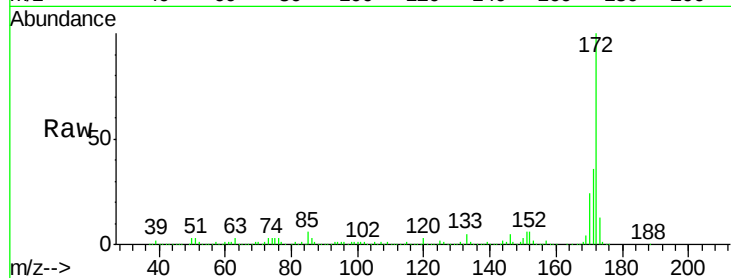




#44  
2-Fluorobiphenyl  
Concen: 74.123 ng  
RT: 9.32 min Scan# 1187  
Delta R.T. 0.00 min  
Lab File: BF107838.D  
Acq: 31 Jul 2018 8:51

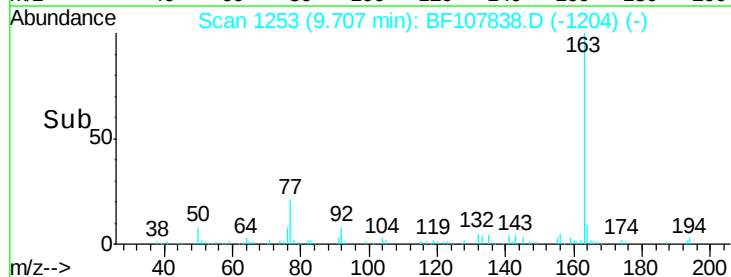
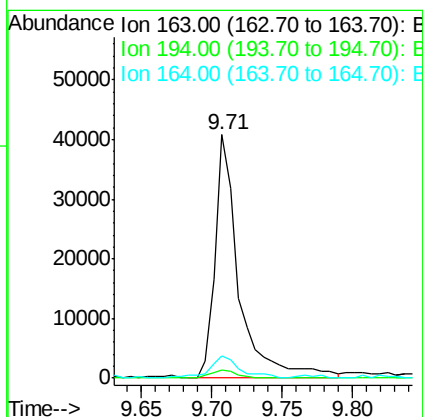
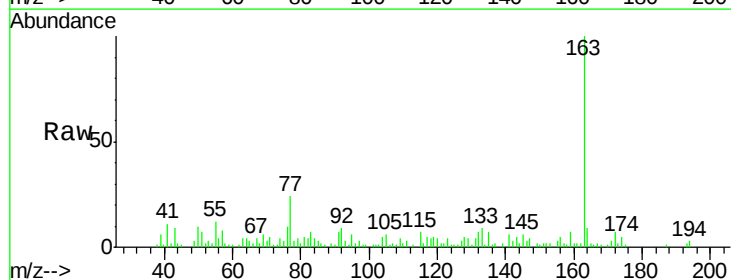
Instrument :  
BNA\_F  
ClientSampled :  
MW-22

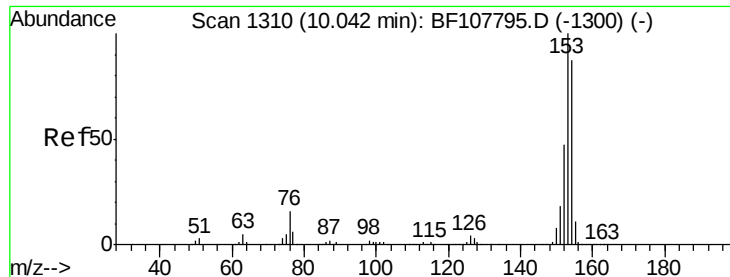
Tgt Ion:172 Resp: 1551839  
Ion Ratio Lower Upper  
172 100  
171 35.5 29.7 44.5  
170 24.3 19.6 29.4



#49  
Dimethylphthalate  
Concen: 2.198 ng  
RT: 9.71 min Scan# 1253  
Delta R.T. -0.01 min  
Lab File: BF107838.D  
Acq: 31 Jul 2018 8:51

Tgt Ion:163 Resp: 48152  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.7 4.1  
164 9.3 8.2 12.2





#51

Acenaphthene

Concen: 2.364 ng

RT: 10.04 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

Instrument :

BNA\_F

ClientSampleId :

MW-22

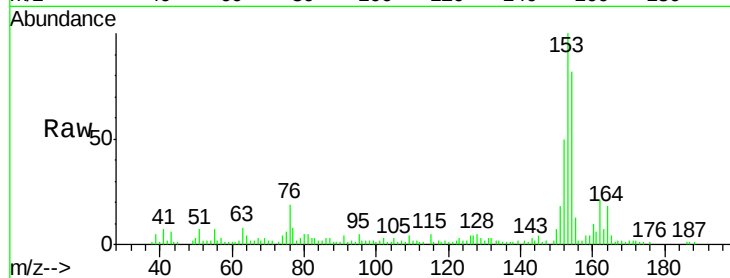
Tgt Ion:154 Resp: 42619

Ion Ratio Lower Upper

154 100

153 121.6 91.2 136.8

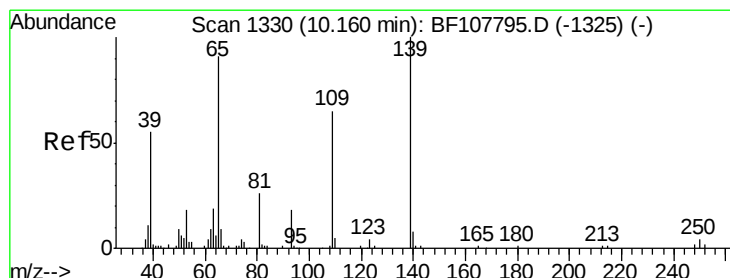
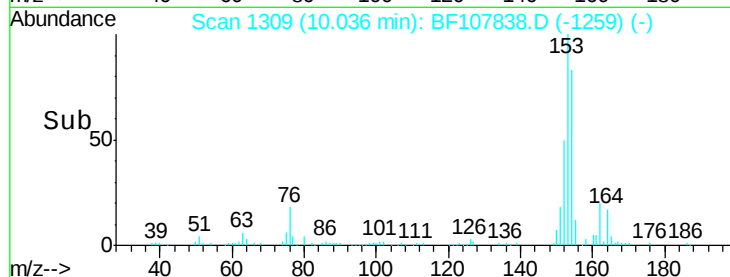
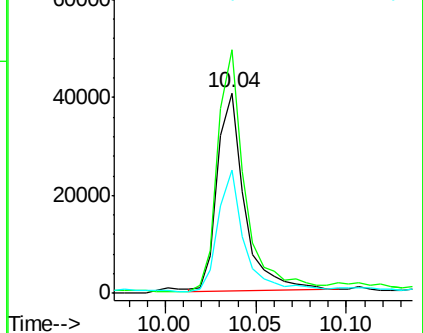
152 61.2 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

4-Nitrophenol

Concen: 10.771 ng

RT: 10.13 min Scan# 1325

Delta R.T. -0.03 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

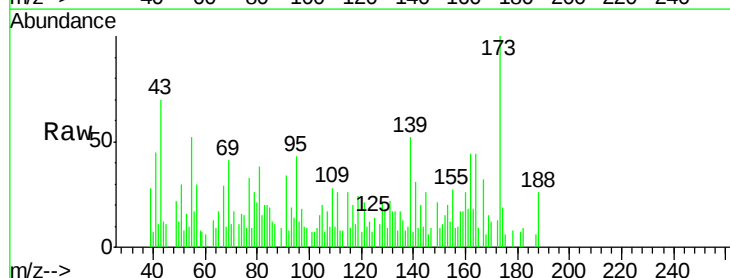
Tgt Ion:139 Resp: 4660

Ion Ratio Lower Upper

139 100

109 54.4 48.4 88.4

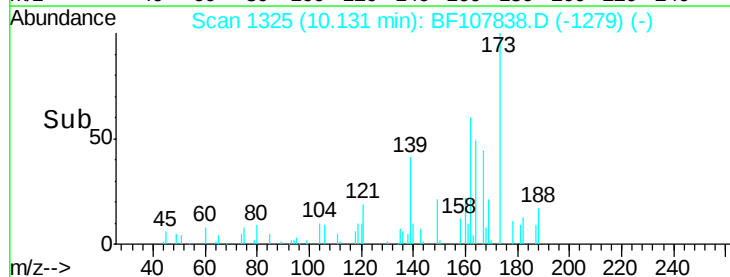
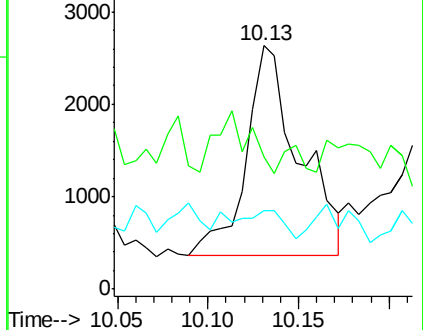
65 32.0 72.6 112.6#

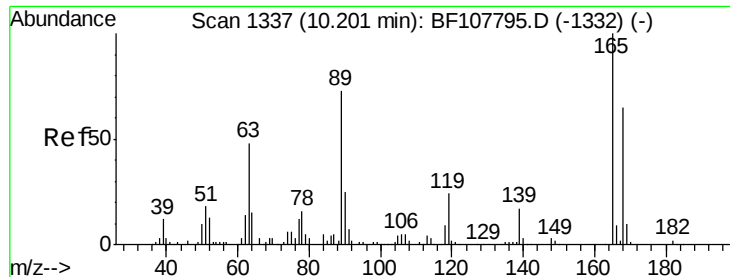


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

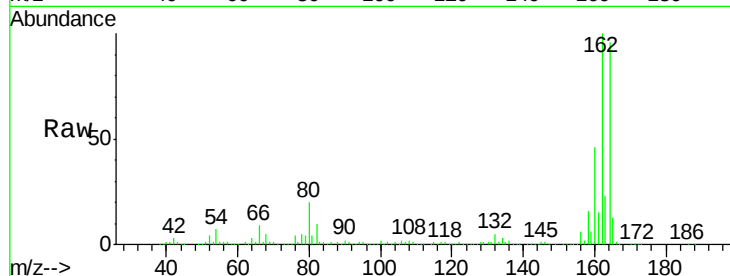




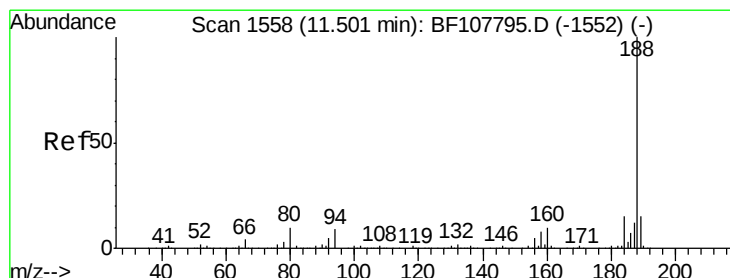
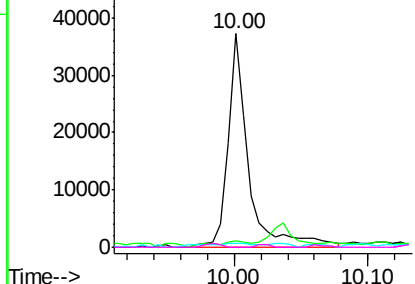
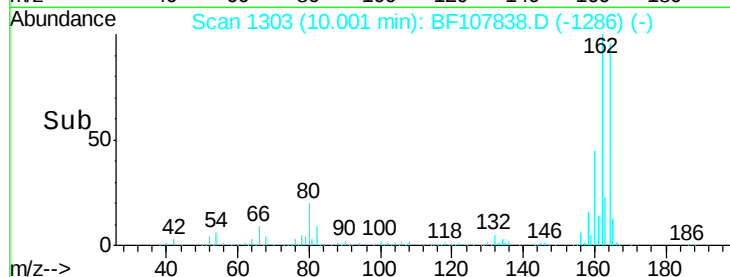
#56  
 2,4-Dinitrotoluene  
 Concen: 6.405 ng  
 RT: 10.00 min Scan# 1303  
 Delta R.T. -0.20 min  
 Lab File: BF107838.D  
 Acq: 31 Jul 2018 8:51

Instrument :  
 BNA\_F  
 ClientSampled :  
 MW-22

Tgt Ion:165 Resp: 40085  
 Ion Ratio Lower Upper  
 165 100  
 63 2.9 36.4 54.6#  
 89 1.7 57.8 86.6#  
 182 0.0 1.6 2.4#

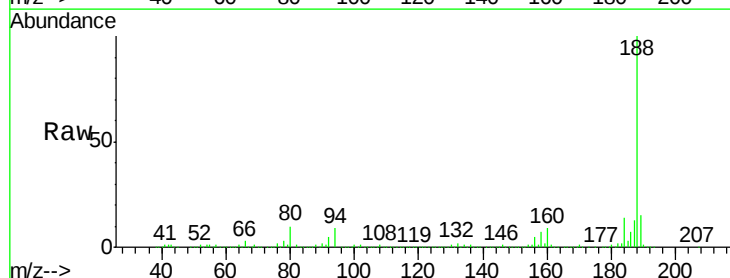


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

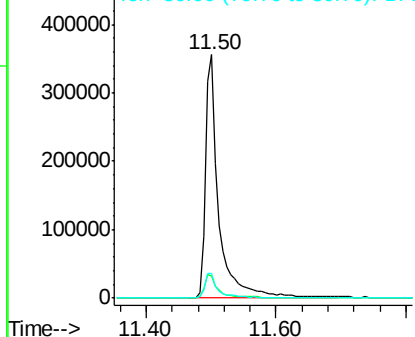
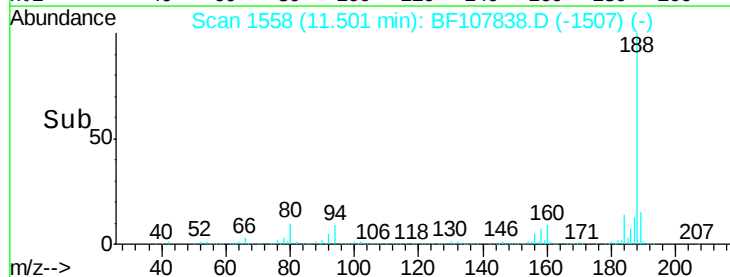


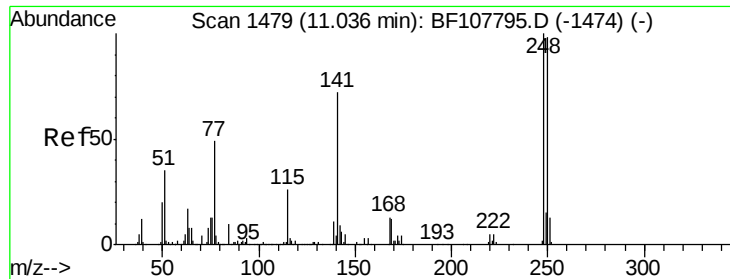
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.50 min Scan# 1558  
 Delta R.T. 0.00 min  
 Lab File: BF107838.D  
 Acq: 31 Jul 2018 8:51

Tgt Ion:188 Resp: 503336  
 Ion Ratio Lower Upper  
 188 100  
 94 9.1 8.5 12.7  
 80 10.4 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

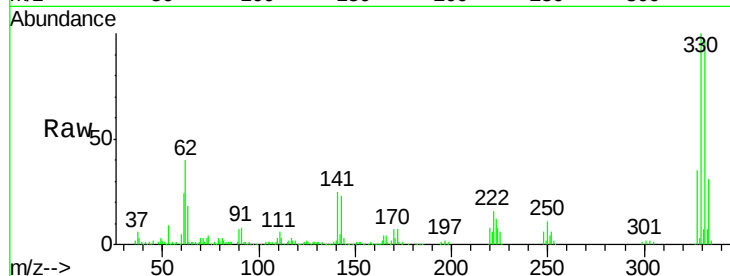




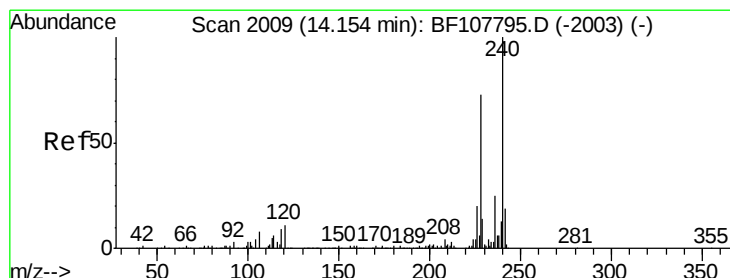
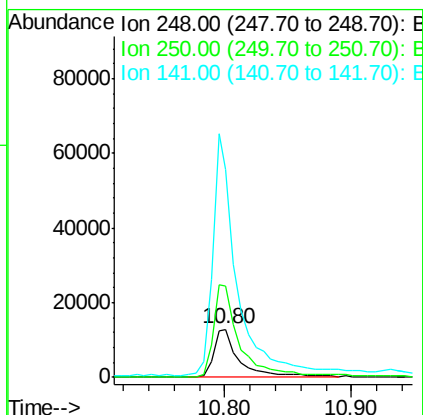
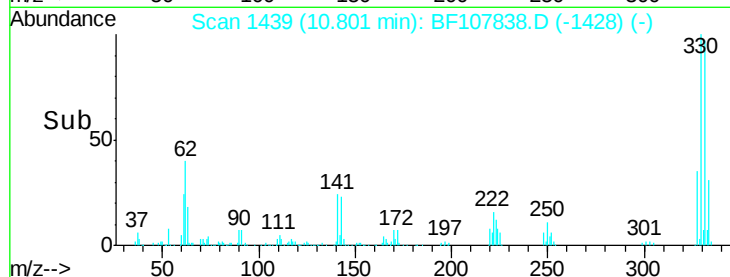
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.124 ng  
 RT: 10.80 min Scan# 1439  
 Delta R.T. -0.24 min  
 Lab File: BF107838.D  
 Acq: 31 Jul 2018 8:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-22

Tgt Ion:248 Resp: 18326  
 Ion Ratio Lower Upper  
 248 100  
 250 189.8 76.9 115.3#  
 141 428.4 74.4 111.6#

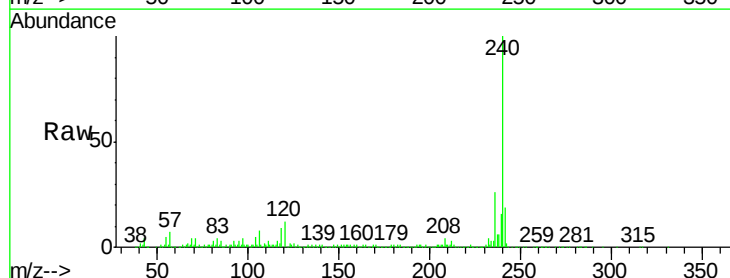


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

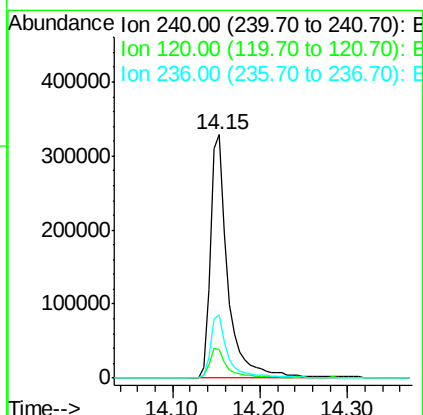
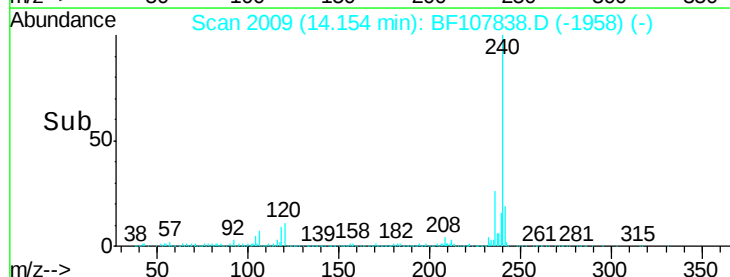


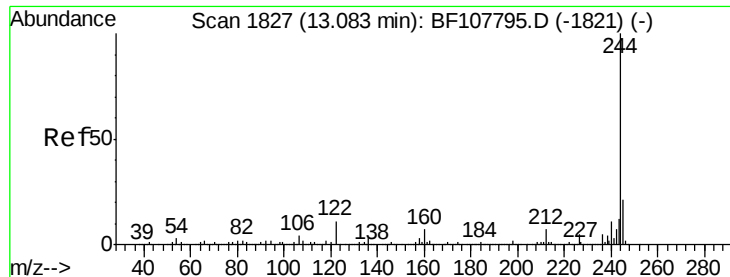
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.15 min Scan# 2009  
 Delta R.T. 0.00 min  
 Lab File: BF107838.D  
 Acq: 31 Jul 2018 8:51

Tgt Ion:240 Resp: 457886  
 Ion Ratio Lower Upper  
 240 100  
 120 11.5 9.5 14.3  
 236 26.1 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





#78

Terphenyl-d14

Concen: 54.114 ng

RT: 13.08 min Scan# 1827

Delta R.T. 0.00 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

Instrument :

BNA\_F

ClientSampleId :

MW-22

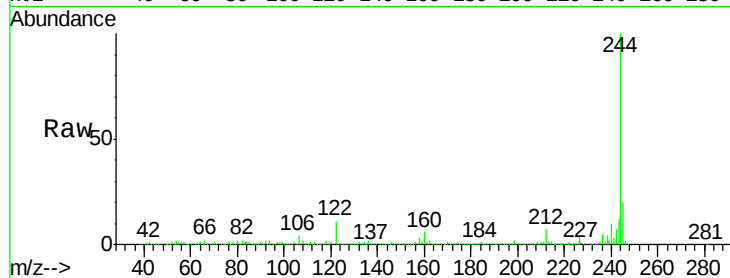
Tgt Ion:244 Resp: 1142665

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

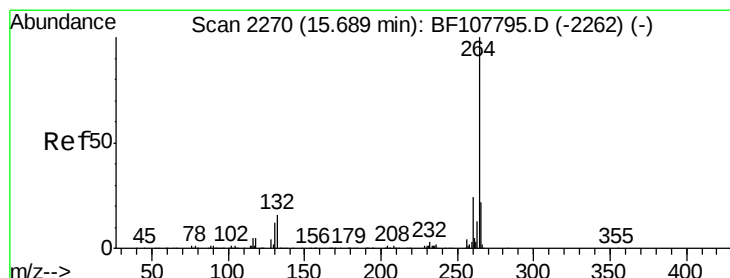
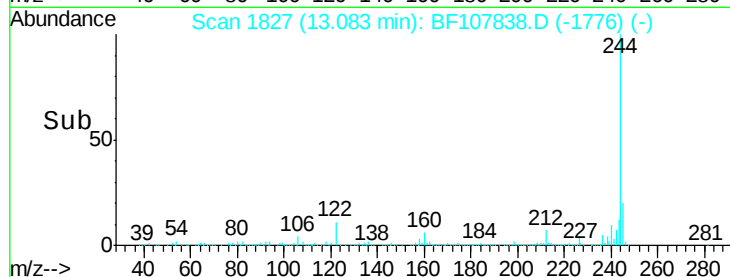
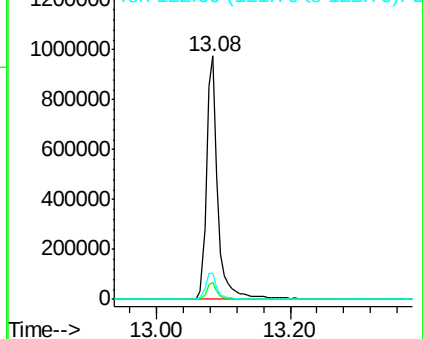
122 10.8 11.0 16.4#



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.69 min Scan# 2270

Delta R.T. 0.00 min

Lab File: BF107838.D

Acq: 31 Jul 2018 8:51

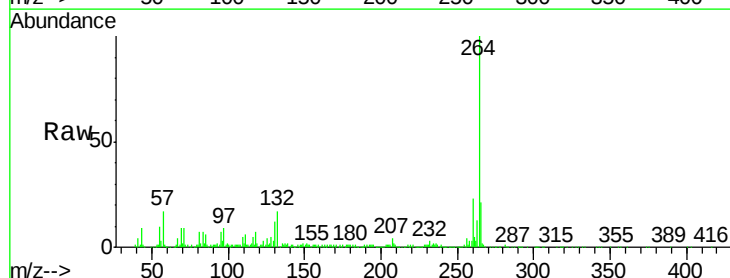
Tgt Ion:264 Resp: 361231

Ion Ratio Lower Upper

264 100

260 23.3 19.2 28.8

265 21.3 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

