

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122917\  
 Data File : BF101834.D  
 Acq On : 29 Dec 2017 17:33  
 Operator : SJ/JU  
 Sample : I7023-08  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 30 03:05:42 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 29 13:21:45 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.78  | 152  | 152861   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.06  | 136  | 581138   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.82  | 164  | 234910   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.32 | 188  | 366417   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.97 | 240  | 291186   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.43 | 264  | 286640   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.40  | 112  | 849466   | 82.78 | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 1025870  | 80.33 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 613479   | 58.76 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.62 | 330  | 175094   | 77.35 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.14  | 172  | 919591   | 60.73 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.89 | 244  | 664640   | 55.03 | ng    | 0.00     |

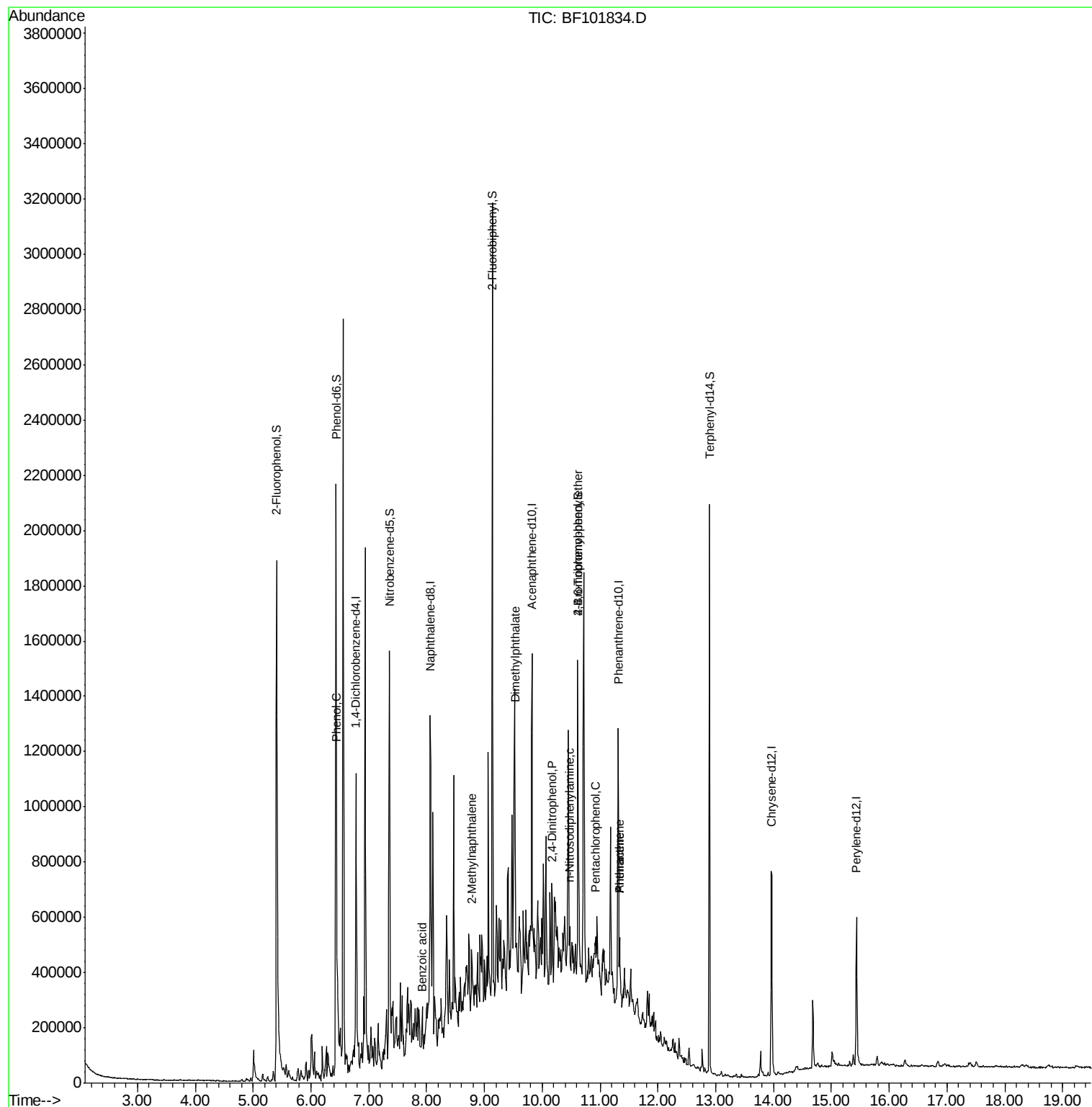
| Target Compounds              | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                    | 6.45  | 94   | 47255    | 3.246  | ng    | # 67   |
| 32) Benzoic acid              | 7.91  | 122  | 126      | 7.979  | ng    | # 1    |
| 37) 2-Methylnaphthalene       | 8.78  | 142  | 75339    | 3.952  | ng    | 99     |
| 49) Dimethylphthalate         | 9.53  | 163  | 83147    | 4.400  | ng    | 98     |
| 53) 2,4-Dinitrophenol         | 10.18 | 184  | 827      | 10.859 | ng    | 82     |
| 65) n-Nitrosodiphenylamine    | 10.47 | 169  | 35056    | 2.591  | ng    | # 40   |
| 66) 4-Bromophenyl-phenylether | 10.62 | 248  | 11151    | 2.708  | ng    | # 1    |
| 69) Pentachlorophenol         | 10.92 | 266  | 148      | 6.637  | ng    | # 19   |
| 70) Phenanthrene              | 11.34 | 178  | 80421    | 3.947  | ng    | 97     |
| 71) Anthracene                | 11.34 | 178  | 80421    | 3.864  | ng    | 98     |

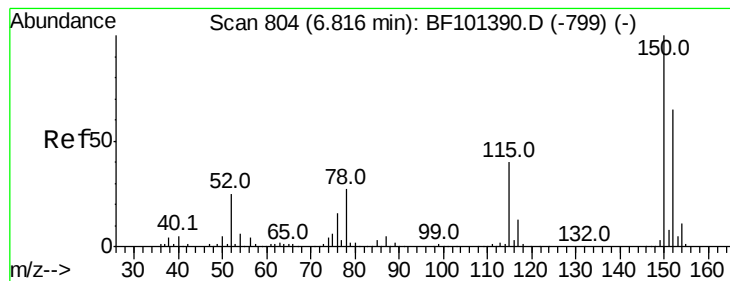
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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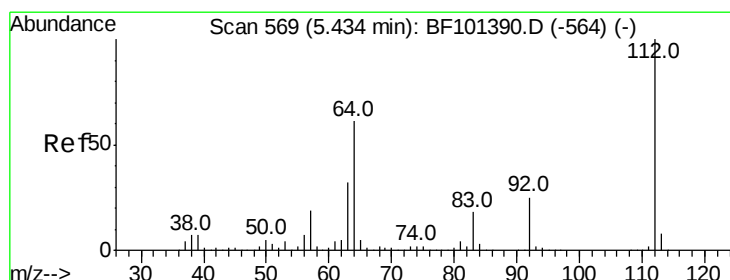
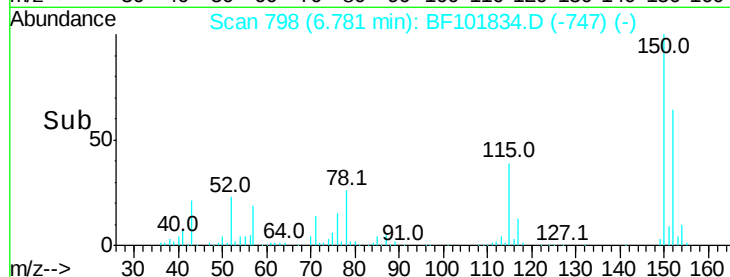
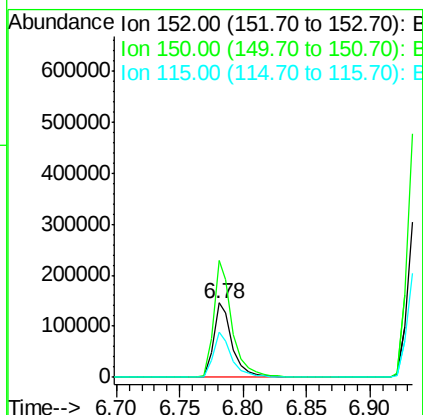
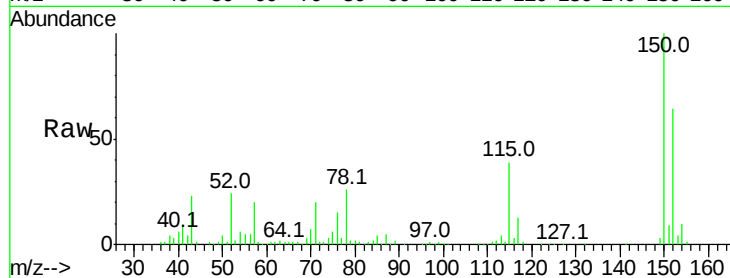


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.78 min Scan# 798  
Delta R.T. 0.00 min  
Lab File: BF101834.D  
Acq: 29 Dec 2017 17:33

Instrument :  
BNA\_F  
ClientSampleId :

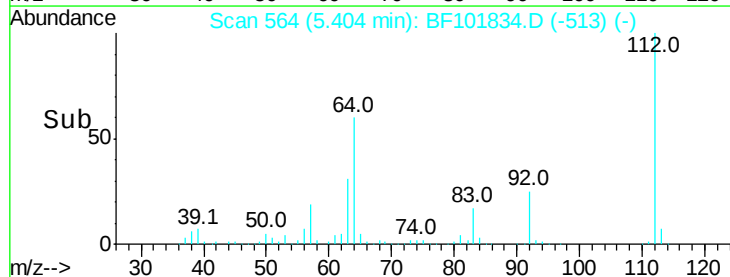
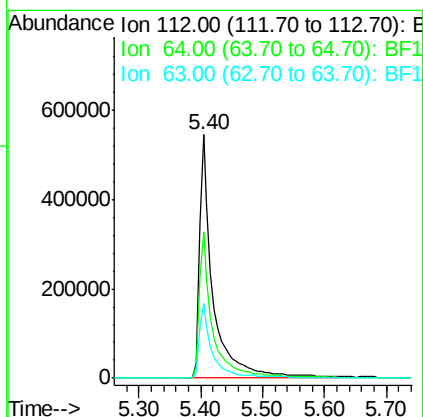
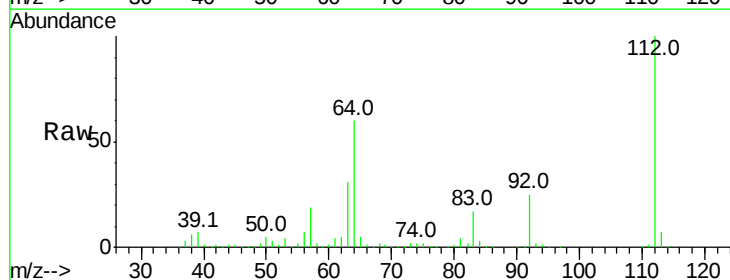
Tot Ion:152 Resp: 152861  
Ion Ratio Lower Upper  
152 100  
150 156.6 124.6 186.8  
115 61.1 50.1 75.1

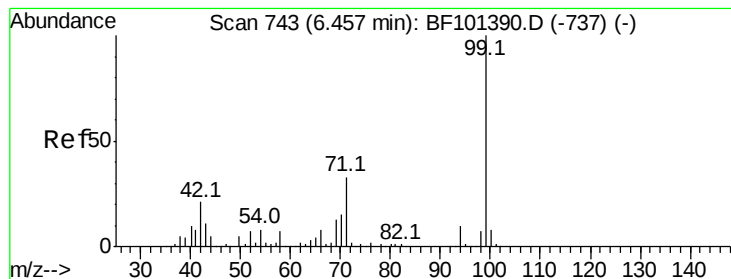


#5

2-Fluorophenol  
Concen: 82.778 ng  
RT: 5.40 min Scan# 564  
Delta R.T. 0.00 min  
Lab File: BF101834.D  
Acq: 29 Dec 2017 17:33

Tgt Ion:112 Resp: 849466  
Ion Ratio Lower Upper  
112 100  
64 60.1 47.9 71.9  
63 30.8 23.7 35.5





#7

Phenol-d6

Concen: 80.325 ng

RT: 6.43 min Scan# 739

Delta R.T. 0.00 min

Lab File: BF101834.D

Acq: 29 Dec 2017 17:33

Instrument :

BNA\_F

ClientSampled :

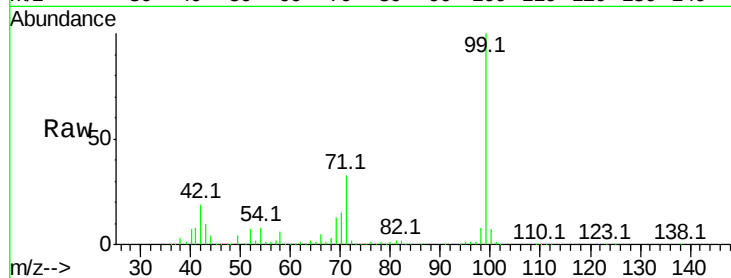
Tot Ion: 99 Resp: 1025870

Ion Ratio Lower Upper

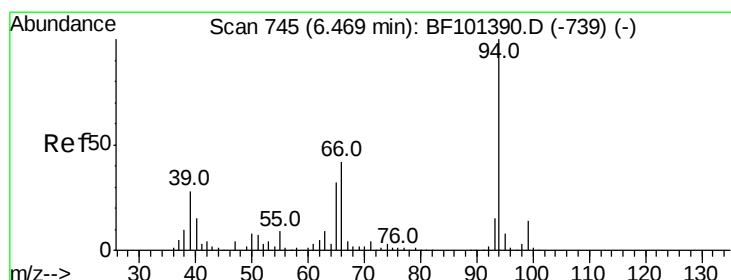
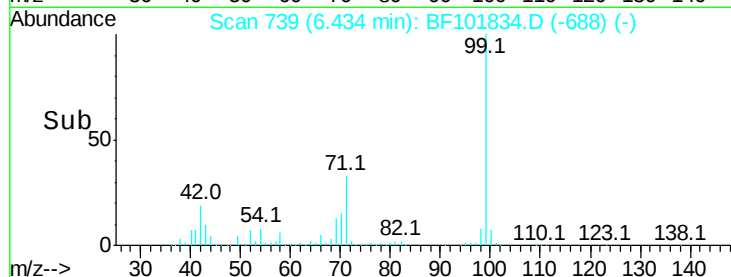
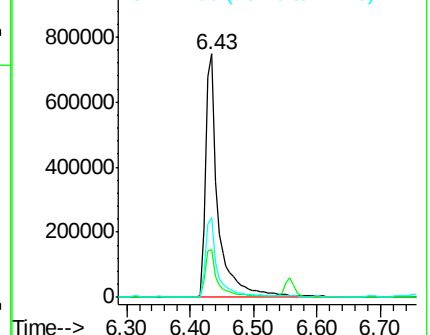
99 100

42 19.4 14.5 21.7

71 32.8 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



#10

Phenol

Concen: 3.246 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF101834.D

Acq: 29 Dec 2017 17:33

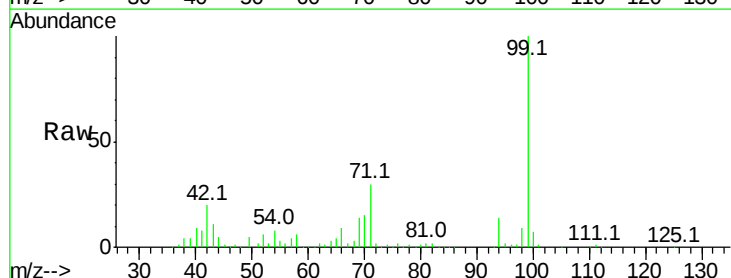
Tgt Ion: 94 Resp: 47255

Ion Ratio Lower Upper

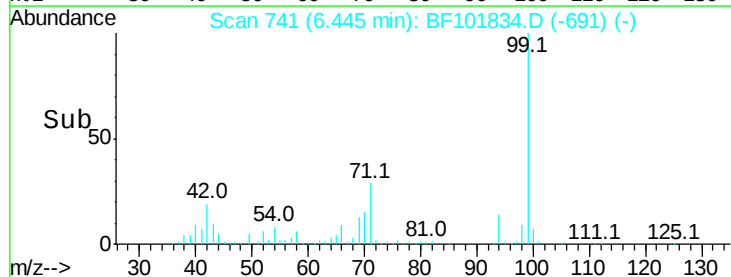
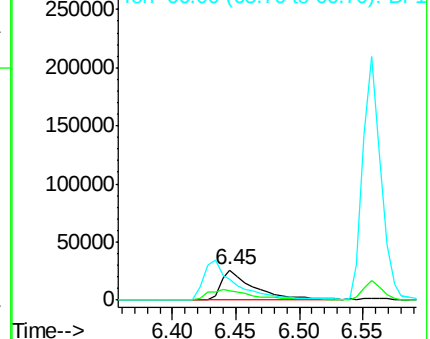
94 100

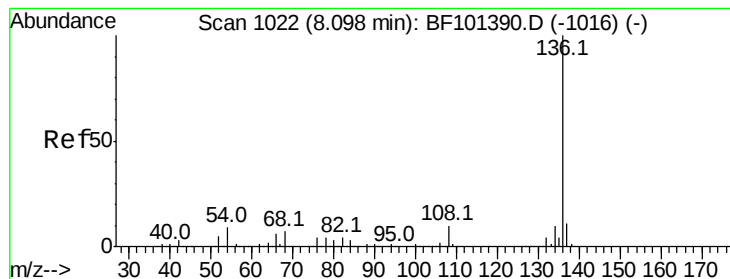
65 31.5 7.9 47.9

66 68.0 16.2 56.2#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.01 min

Lab File: BF101834.D

Acq: 29 Dec 2017 17:33

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 581138

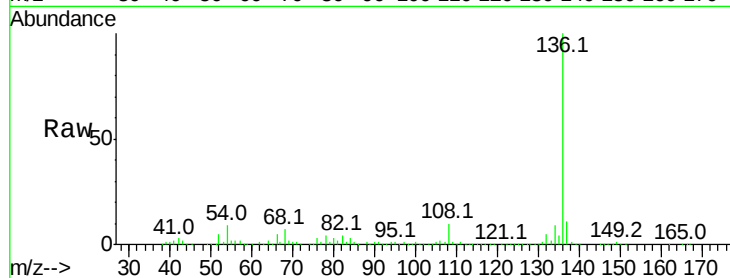
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 9.4 6.6 9.8

68 7.3 5.0 7.4

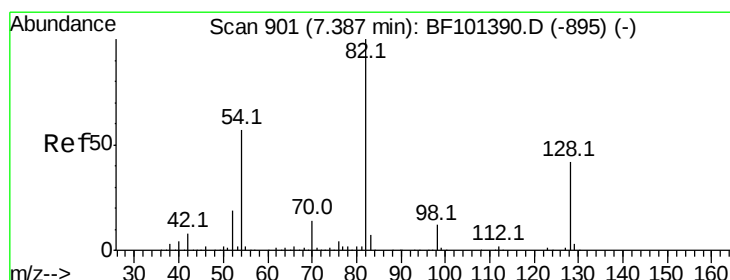
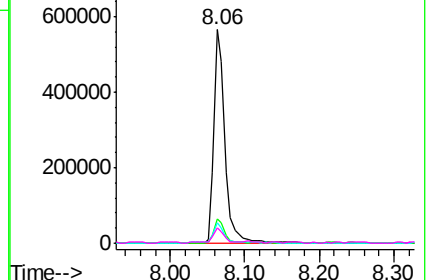
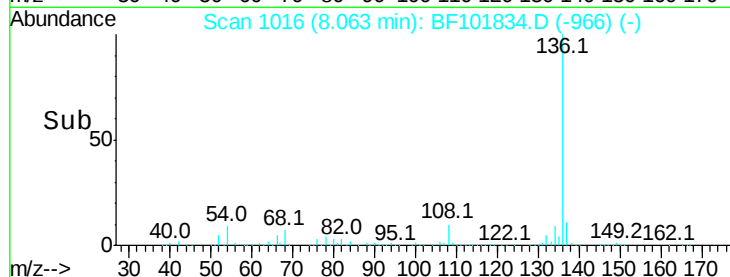


Abundance Ion 136.00 (135.70 to 136.70): E

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: 58.764 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.01 min

Lab File: BF101834.D

Acq: 29 Dec 2017 17:33

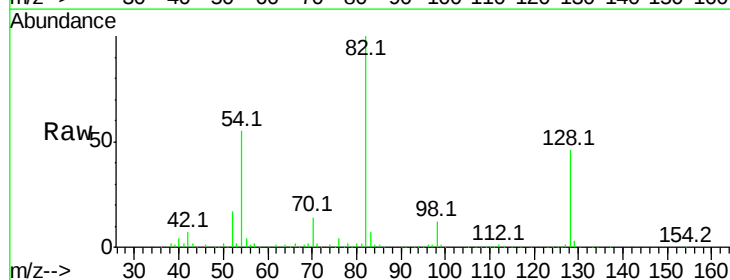
Tgt Ion: 82 Resp: 613479

Ion Ratio Lower Upper

82 100

128 46.1 36.1 54.1

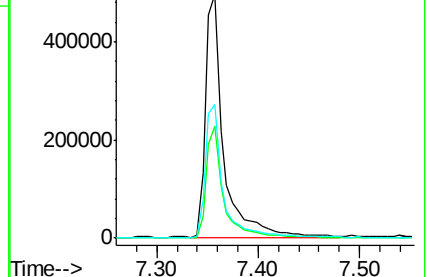
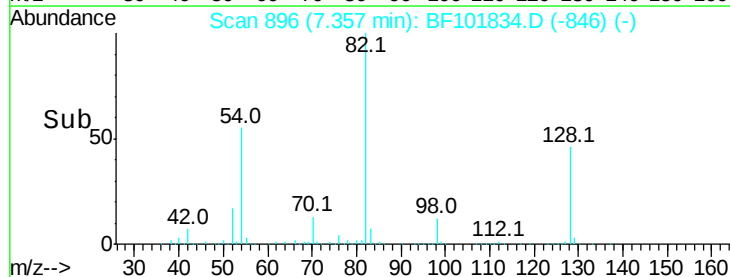
54 54.7 41.4 62.2

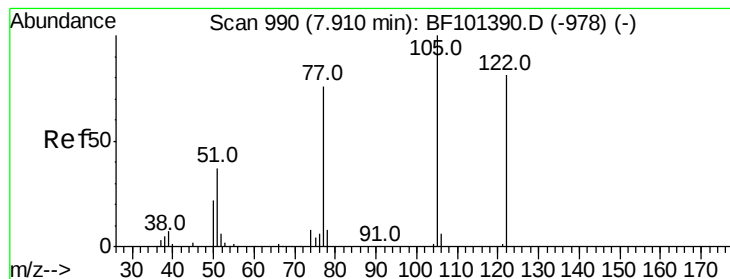


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#32

Benzoic acid

Concen: 7.979 ng

RT: 7.91 min Scan# 990

Delta R.T. 0.01 min

Lab File: BF101834.D

Acq: 29 Dec 2017 17:33

Instrument :

BNA\_F

ClientSampleId :

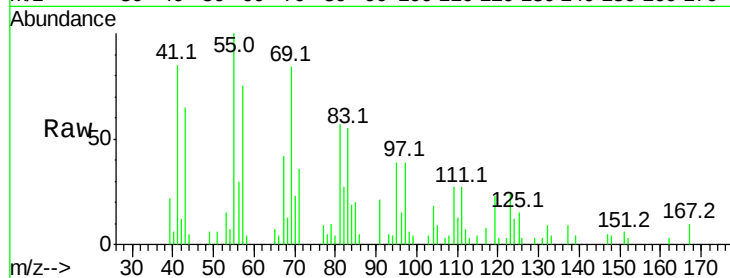
Tot Ion:122 Resp: 126

Ion Ratio Lower Upper

122 100

105 256.3 101.1 141.1#

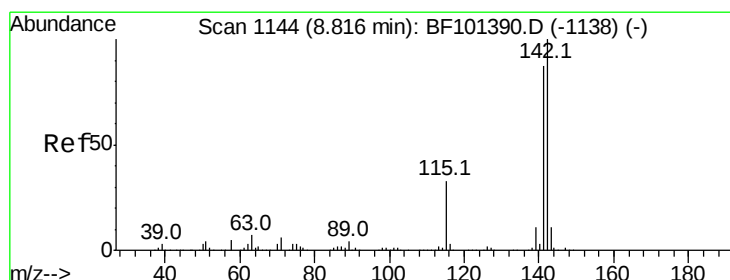
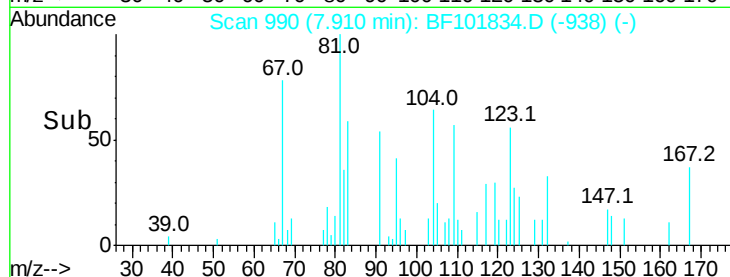
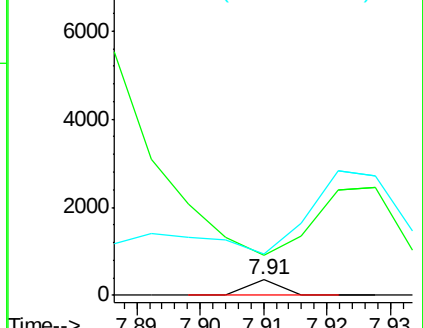
77 259.4 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#37

2-Methylnaphthalene

Concen: 3.952 ng

RT: 8.78 min Scan# 1138

Delta R.T. 0.00 min

Lab File: BF101834.D

Acq: 29 Dec 2017 17:33

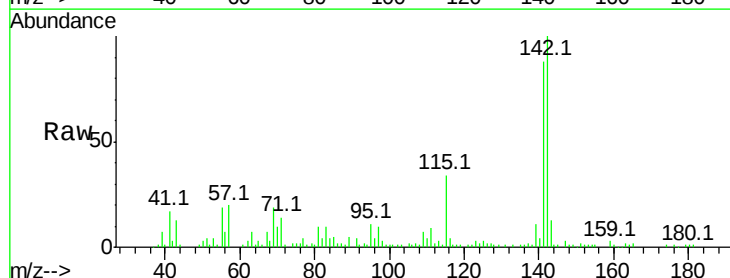
Tgt Ion:142 Resp: 75339

Ion Ratio Lower Upper

142 100

141 88.1 70.8 106.2

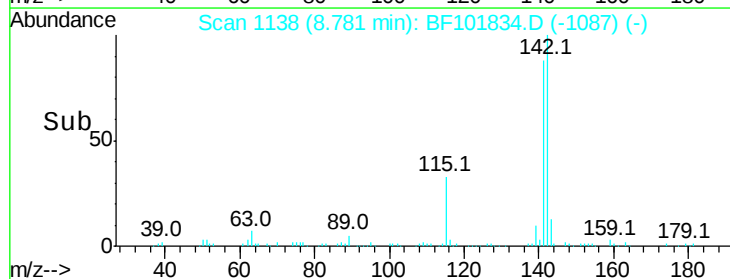
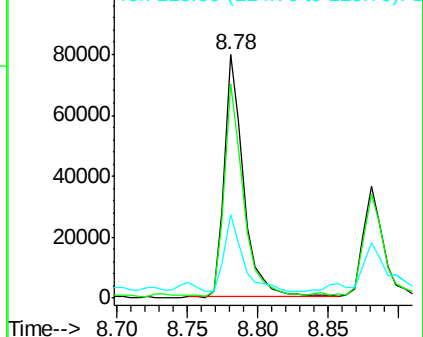
115 34.1 26.1 39.1

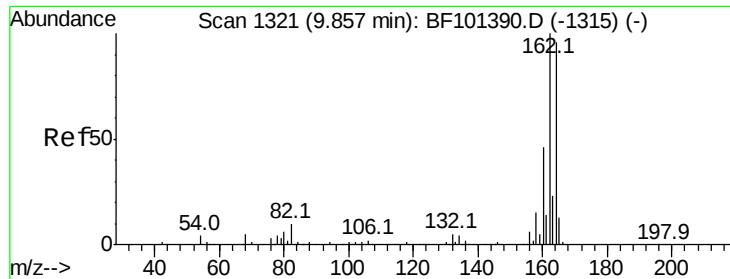


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

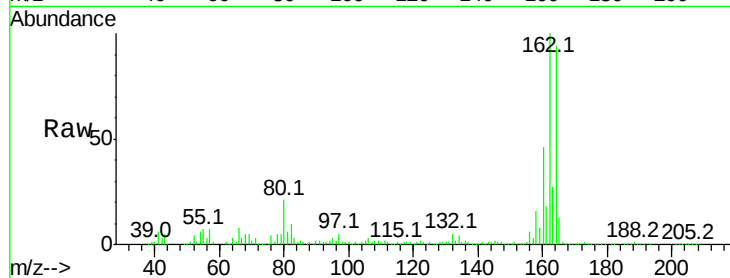




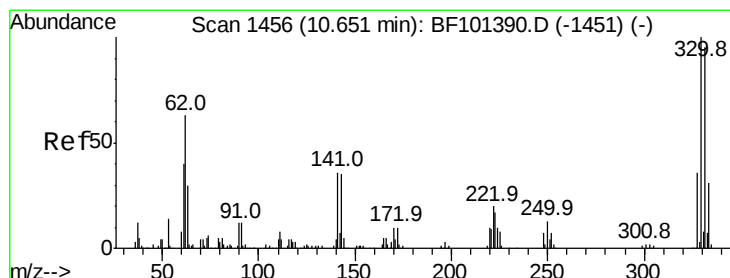
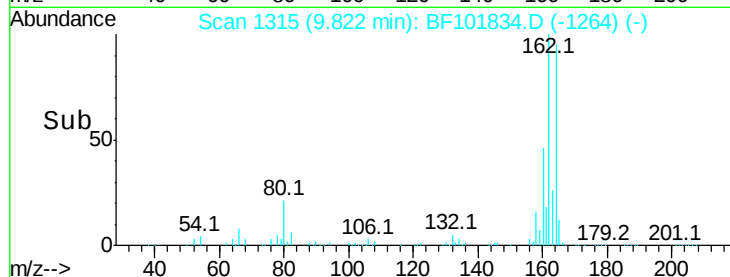
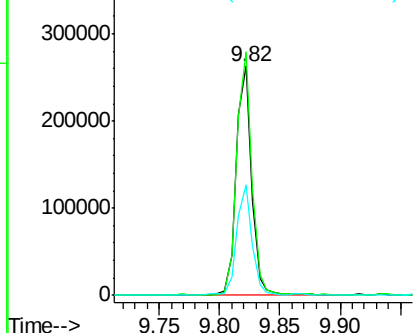
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.82 min Scan# 1315  
 Delta R.T. 0.00 min  
 Lab File: BF101834.D  
 Acq: 29 Dec 2017 17:33

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 234910  
 Ion Ratio Lower Upper  
 164 100  
 162 106.2 86.1 129.1  
 160 48.3 38.3 57.5

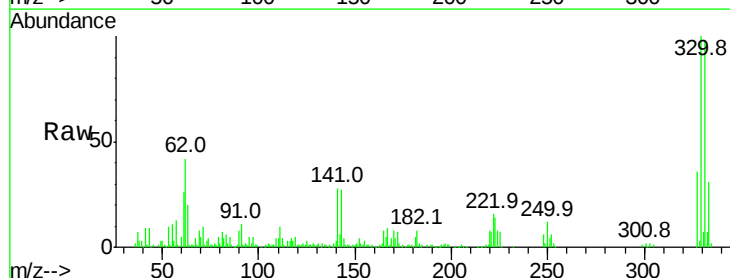


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

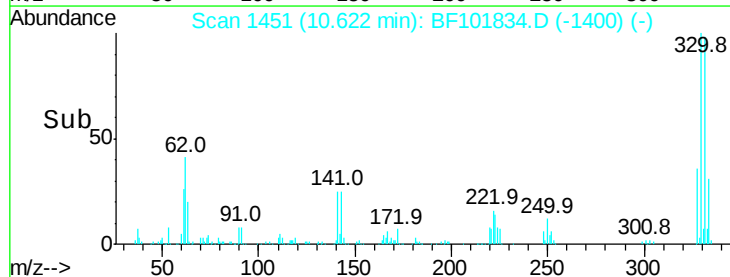
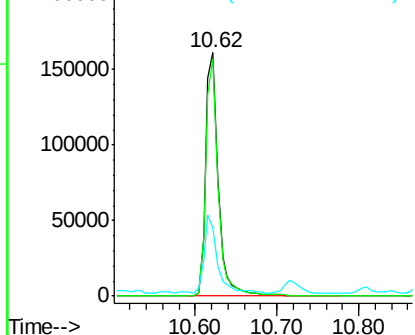


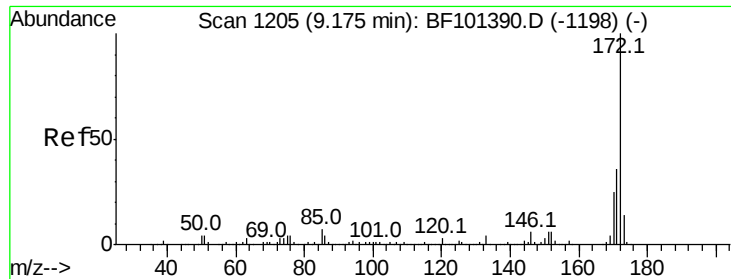
#41  
 2,4,6-Tribromophenol  
 Concen: 77.354 ng  
 RT: 10.62 min Scan# 1451  
 Delta R.T. 0.00 min  
 Lab File: BF101834.D  
 Acq: 29 Dec 2017 17:33

Tgt Ion:330 Resp: 175094  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 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

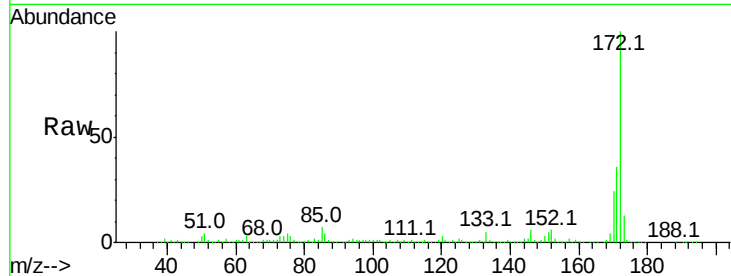




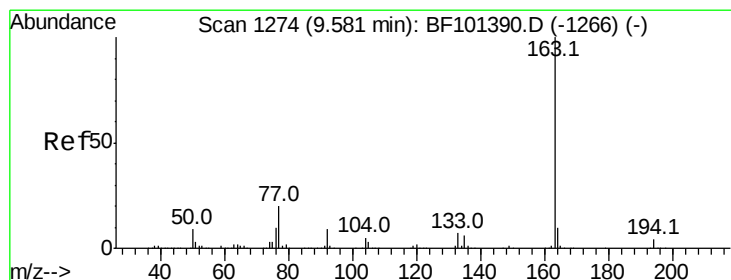
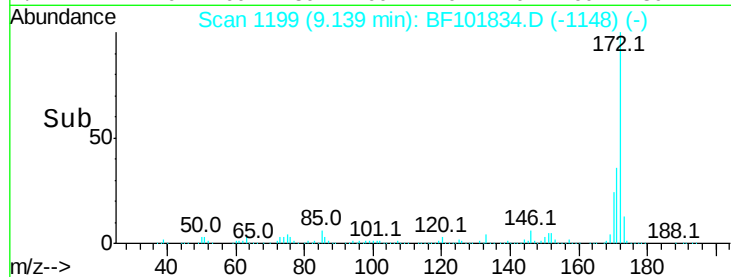
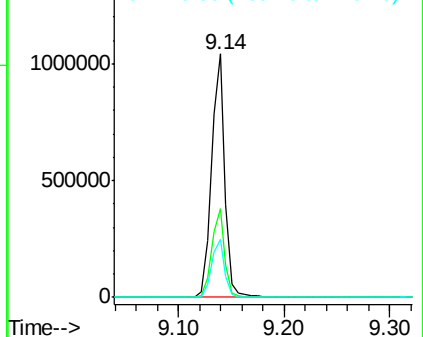
#44  
2-Fluorobiphenyl  
Concen: 60.726 ng  
RT: 9.14 min Scan# 1199  
Delta R.T. 0.00 min  
Lab File: BF101834.D  
Acq: 29 Dec 2017 17:33

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 919591  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.7 44.5  
170 23.8 19.6 29.4

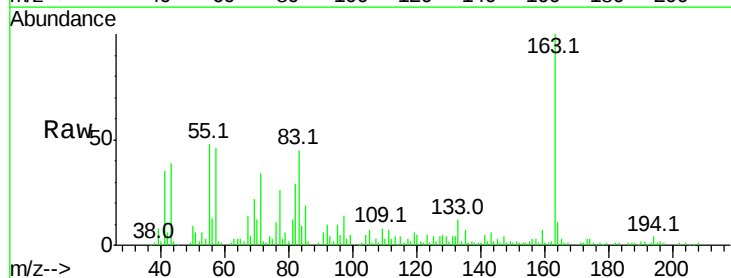


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

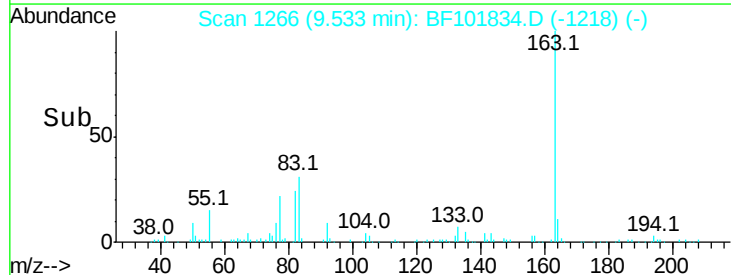
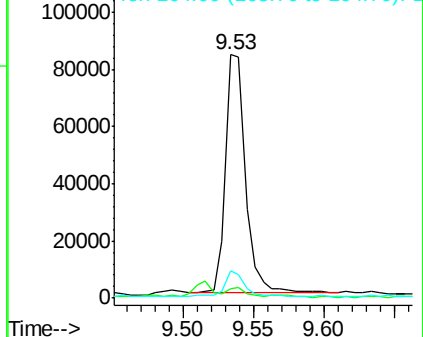


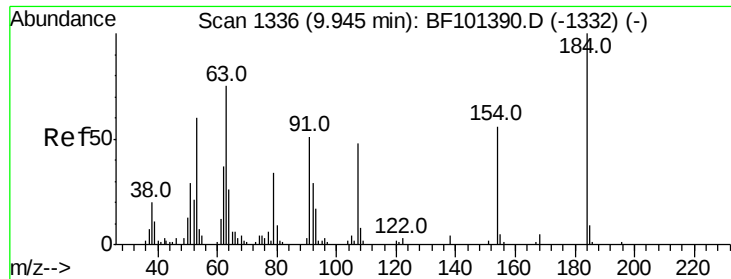
#49  
Dimethylphthalate  
Concen: 4.400 ng  
RT: 9.53 min Scan# 1266  
Delta R.T. -0.02 min  
Lab File: BF101834.D  
Acq: 29 Dec 2017 17:33

Tgt Ion:163 Resp: 83147  
Ion Ratio Lower Upper  
163 100  
194 3.9 2.7 4.1  
164 11.2 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

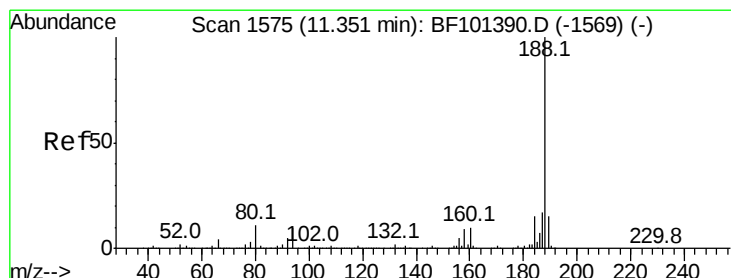
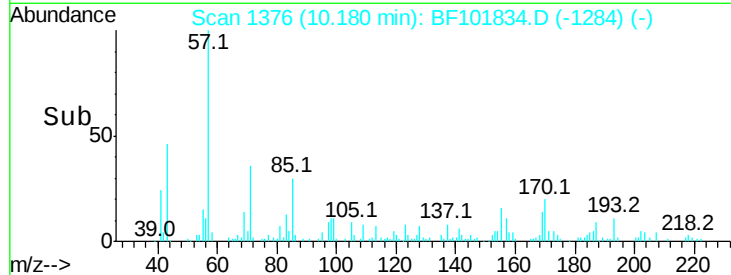
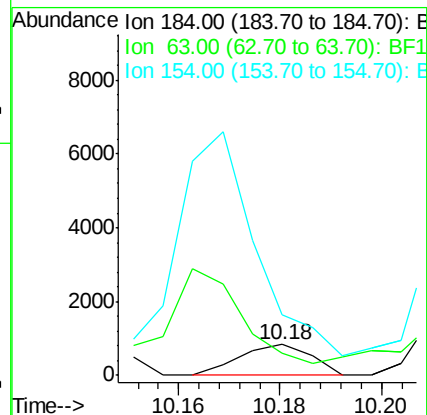
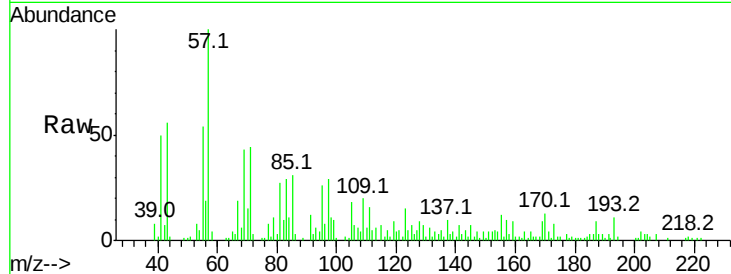




#53  
2,4-Dinitrophenol  
Concen: 10.859 ng  
RT: 10.18 min Scan# 1376  
Delta R.T. 0.24 min  
Lab File: BF101834.D  
Acq: 29 Dec 2017 17:33

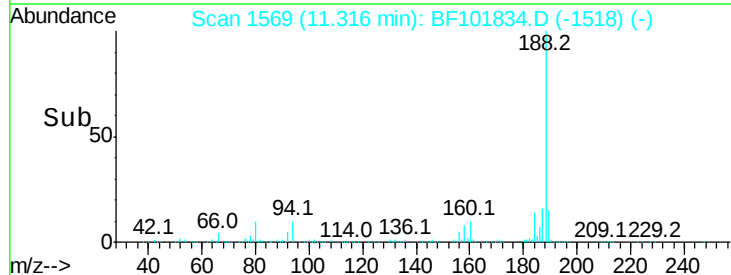
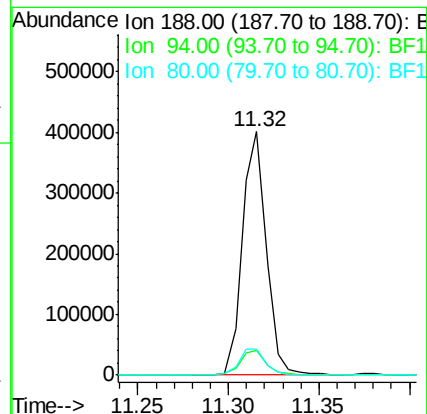
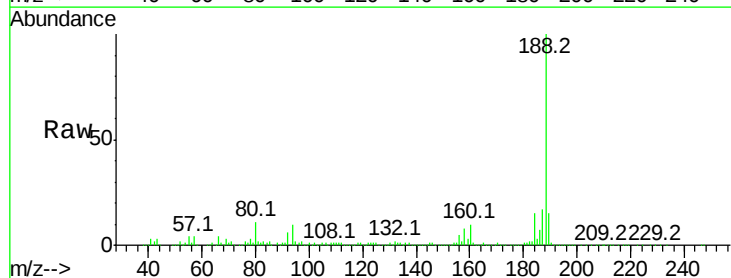
Instrument :  
BNA\_F  
ClientSampleId :

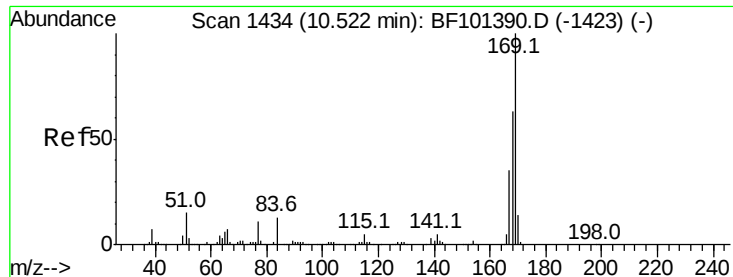
Tot Ion:184 Resp: 827  
Ion Ratio Lower Upper  
184 100  
63 74.2 54.2 81.2  
154 196.3 184.0 276.0



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1569  
Delta R.T. 0.00 min  
Lab File: BF101834.D  
Acq: 29 Dec 2017 17:33

Tgt Ion:188 Resp: 366417  
Ion Ratio Lower Upper  
188 100  
94 9.9 8.5 12.7  
80 10.6 9.2 13.8

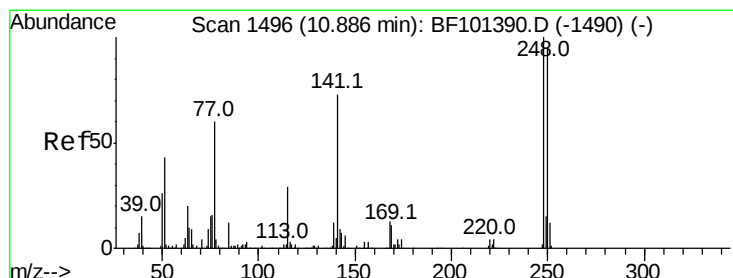
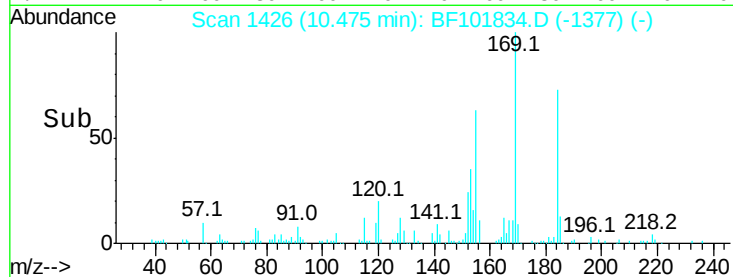
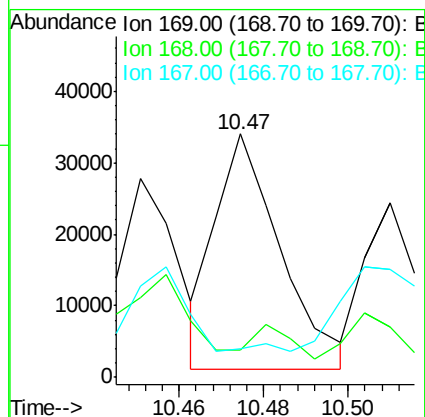
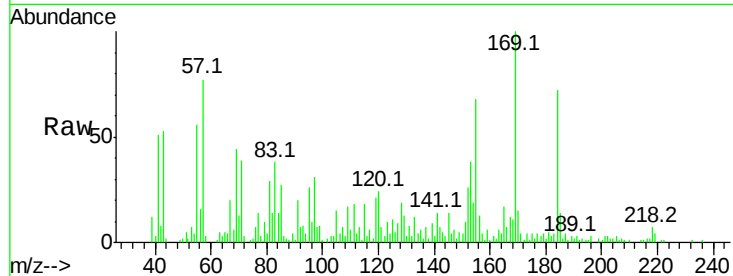




#65  
 n-Nitrosodiphenylamine  
 Concen: 2.591 ng  
 RT: 10.47 min Scan# 1426  
 Delta R.T. -0.01 min  
 Lab File: BF101834.D  
 Acq: 29 Dec 2017 17:33

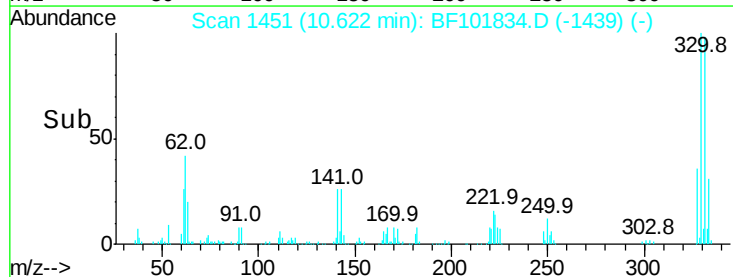
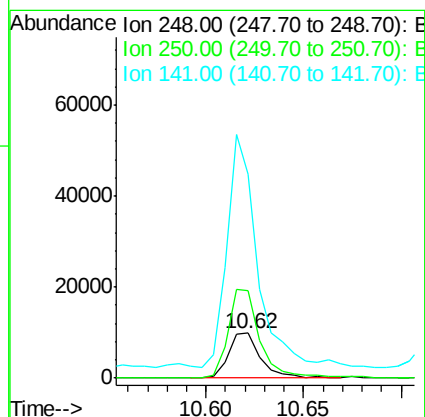
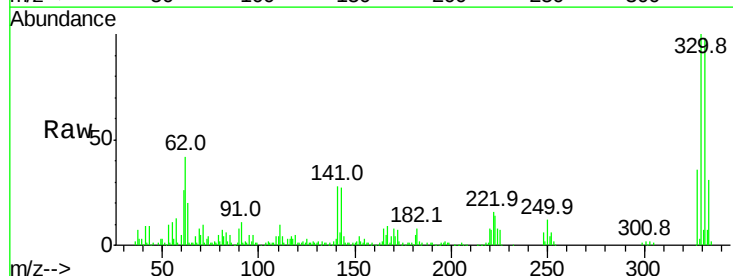
Instrument :  
 BNA\_F  
 ClientSampleId :

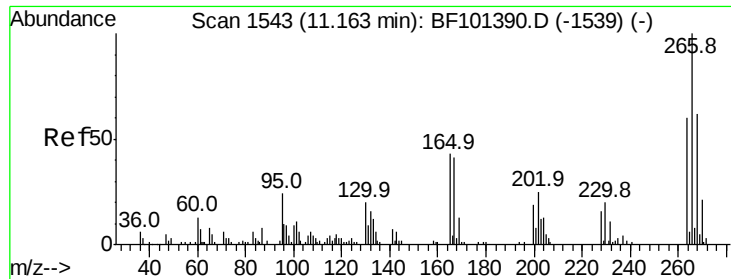
Tot Ion:169 Resp: 35056  
 Ion Ratio Lower Upper  
 169 100  
 168 11.3 54.4 81.6#  
 167 11.9 29.8 44.6#



#66  
 4-Bromophenyl-phenylether  
 Concen: 2.708 ng  
 RT: 10.62 min Scan# 1451  
 Delta R.T. -0.23 min  
 Lab File: BF101834.D  
 Acq: 29 Dec 2017 17:33

Tgt Ion:248 Resp: 11151  
 Ion Ratio Lower Upper  
 248 100  
 250 195.5 76.9 115.3#  
 141 454.0 74.4 111.6#

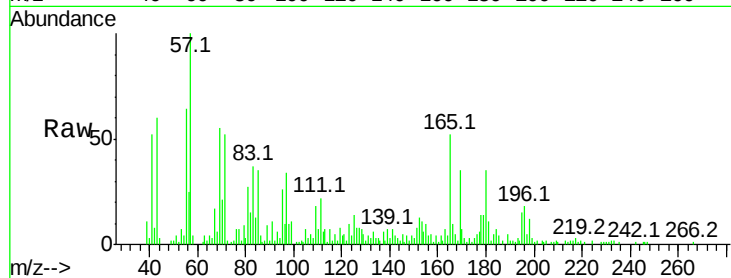




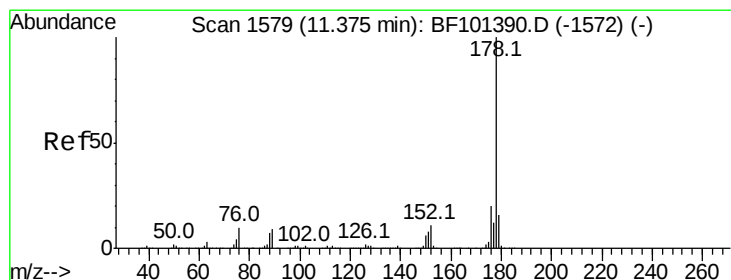
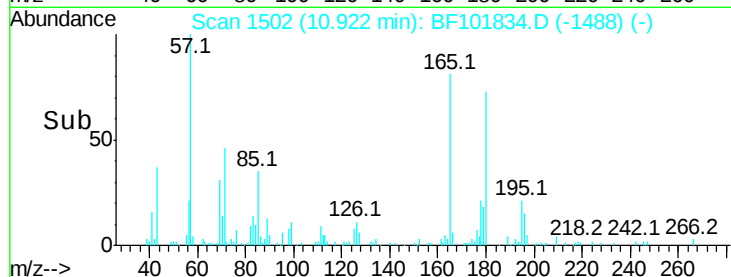
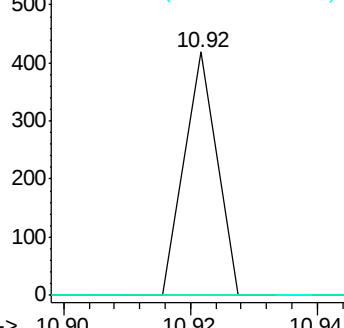
#69  
 Pentachlorophenol  
 Concen: 6.637 ng  
 RT: 10.92 min Scan# 1502  
 Delta R.T. -0.22 min  
 Lab File: BF101834.D  
 Acq: 29 Dec 2017 17:33

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:266 Resp: 148  
 Ion Ratio Lower Upper  
 266 100  
 268 0.0 51.1 76.7#  
 264 0.0 49.5 74.3#

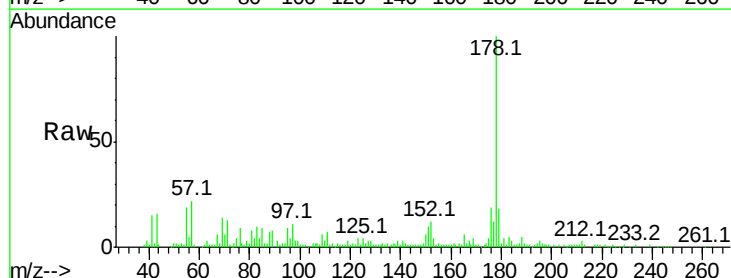


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

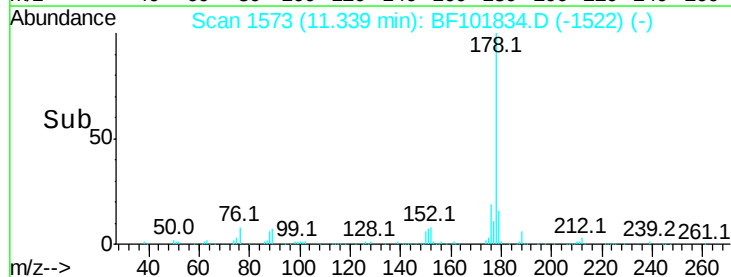
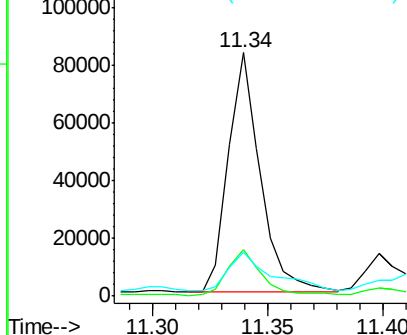


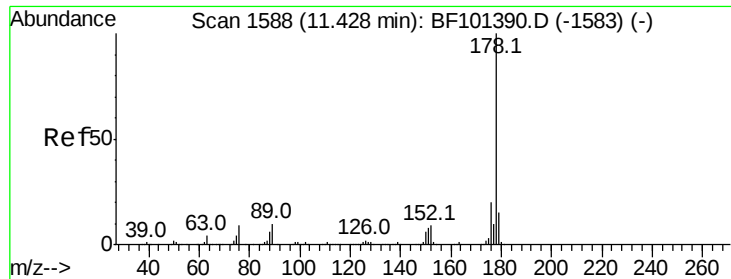
#70  
 Phenanthrene  
 Concen: 3.947 ng  
 RT: 11.34 min Scan# 1573  
 Delta R.T. 0.00 min  
 Lab File: BF101834.D  
 Acq: 29 Dec 2017 17:33

Tgt Ion:178 Resp: 80421  
 Ion Ratio Lower Upper  
 178 100  
 176 19.2 15.8 23.8  
 179 18.0 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 3.864 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.05 min

Lab File: BF101834.D

Acq: 29 Dec 2017 17:33

Instrument :

BNA\_F

ClientSampleId :

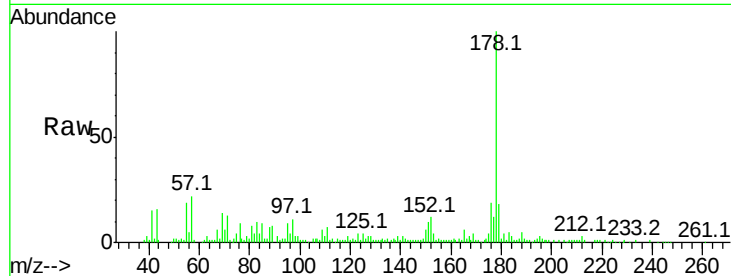
Tot Ion:178 Resp: 80421

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

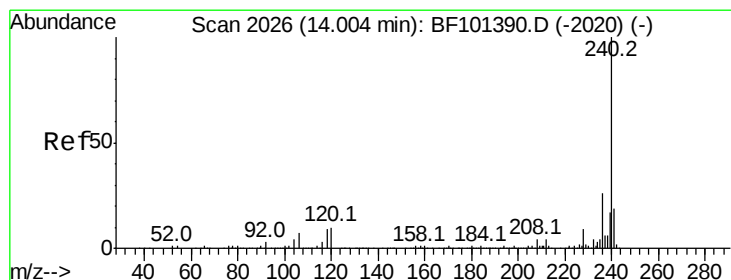
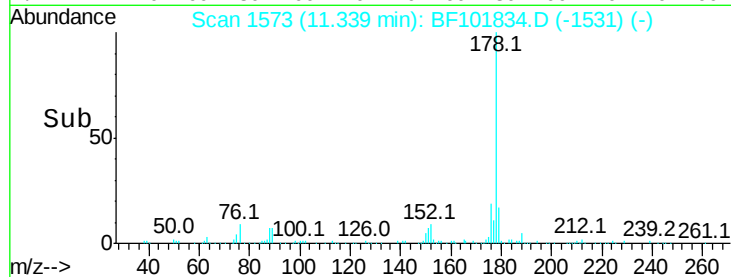
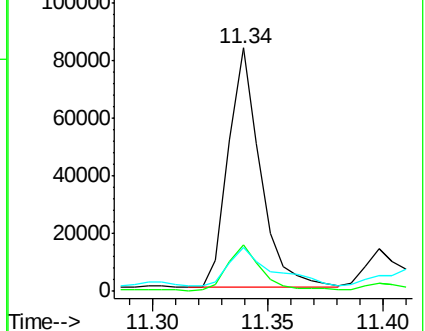
179 18.0 12.6 19.0



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF101834.D

Acq: 29 Dec 2017 17:33

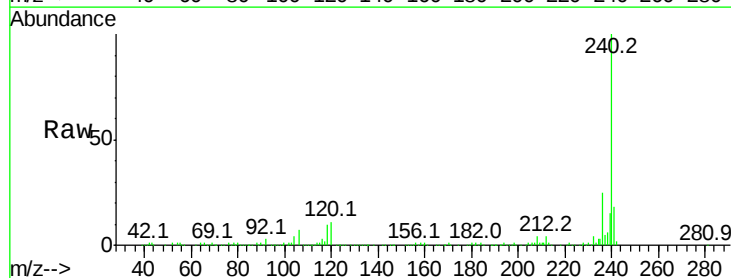
Tgt Ion:240 Resp: 291186

Ion Ratio Lower Upper

240 100

120 10.5 9.5 14.3

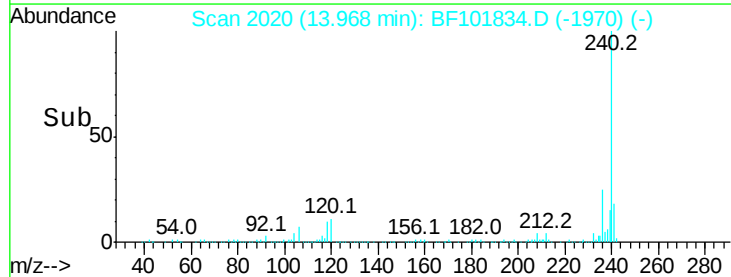
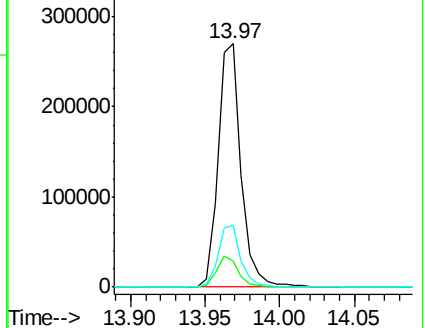
236 25.4 20.7 31.1

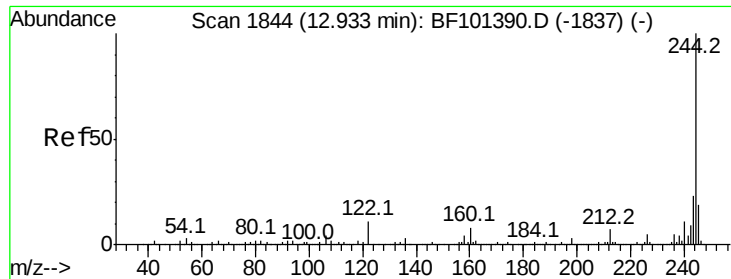


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 55.026 ng

RT: 12.89 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF101834.D

Acq: 29 Dec 2017 17:33

Instrument :

BNA\_F

ClientSampled :

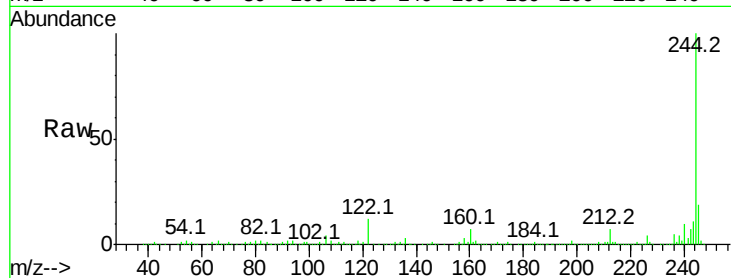
Tot Ion:244 Resp: 664640

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

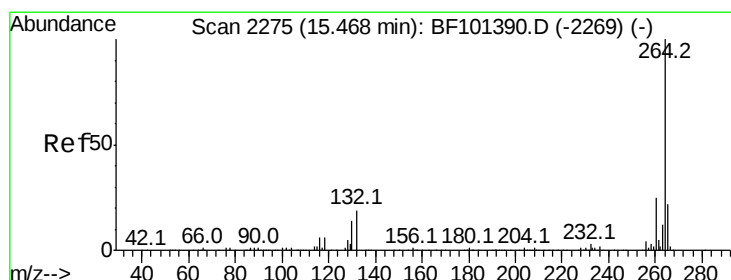
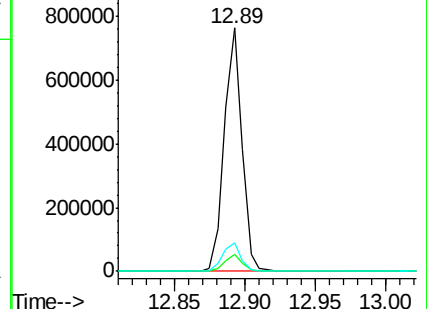
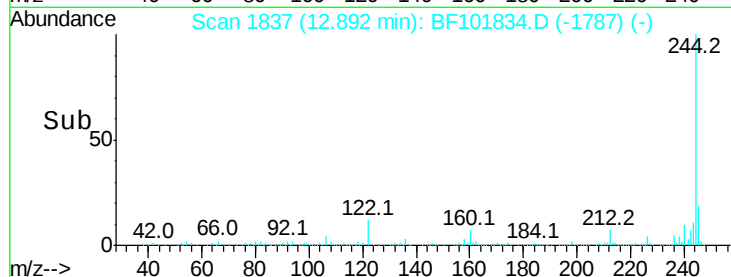
122 11.6 11.0 16.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.01 min

Lab File: BF101834.D

Acq: 29 Dec 2017 17:33

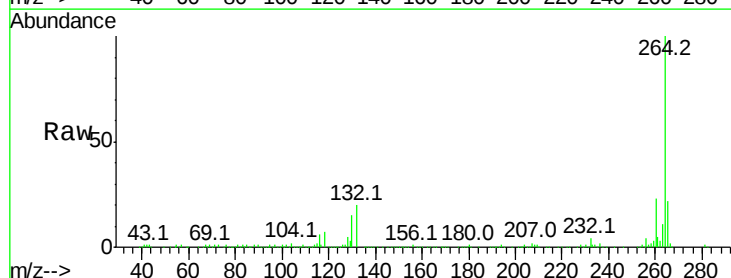
Tgt Ion:264 Resp: 286640

Ion Ratio Lower Upper

264 100

260 23.2 19.2 28.8

265 21.9 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

