

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF012318\  
 Data File : BF102382.D  
 Acq On : 24 Jan 2018 10:38  
 Operator : SJ/JU  
 Sample : J1239-11DL 10X  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-50-01DL

Quant Time: Jan 24 11:25:00 2018  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 23 00:43:41 2018  
 Response via : Initial Calibration

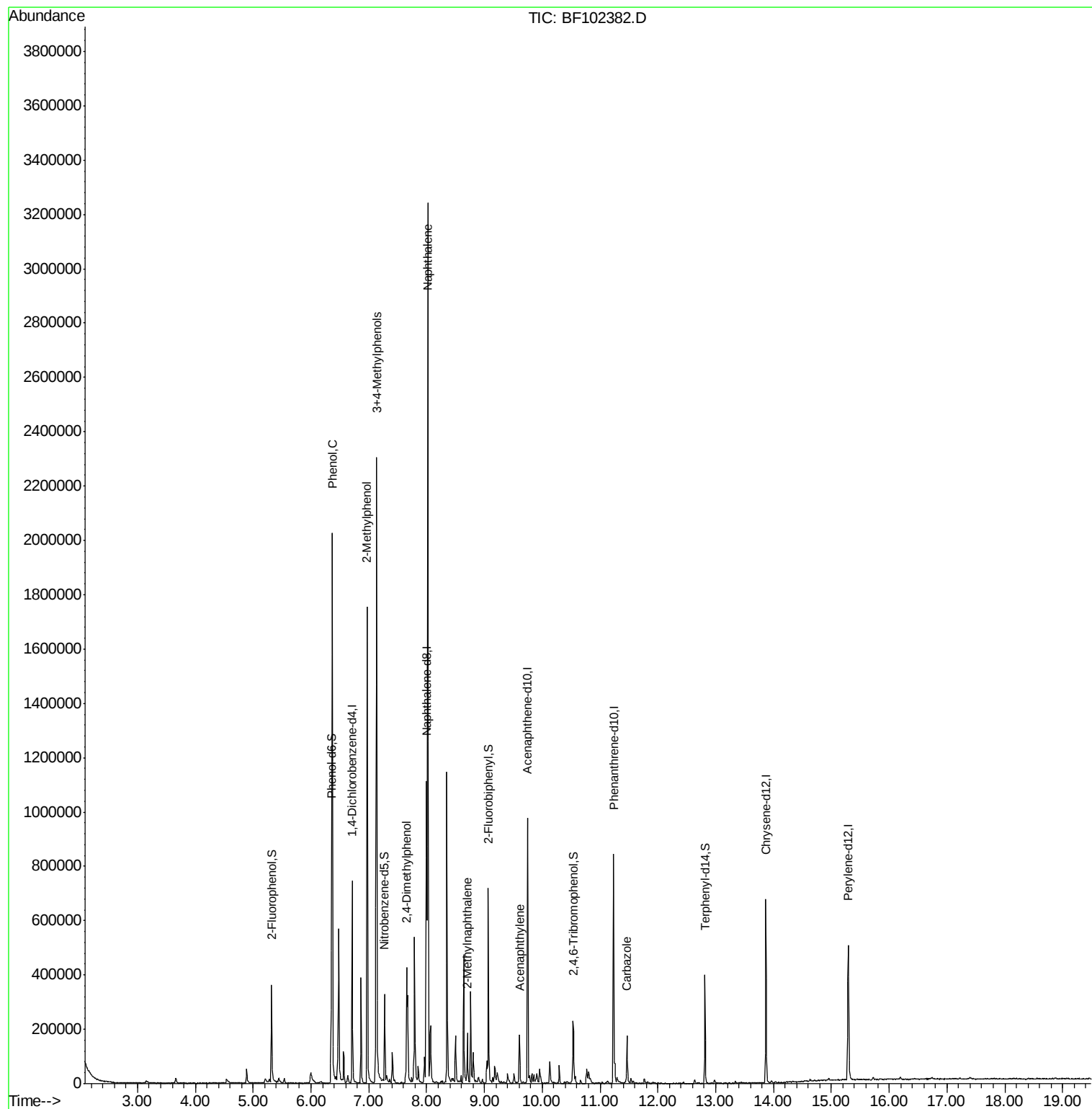
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 119862   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.00  | 136  | 496349   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.75  | 164  | 205033   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.23 | 188  | 311416   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.87 | 240  | 226175   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.29 | 264  | 221926   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.32  | 112  | 116129   | 14.69  | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 130739   | 13.72  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 95835    | 11.10  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 28022    | 13.79  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.07  | 172  | 199868   | 14.33  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.82 | 244  | 138847   | 13.84  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.37  | 94   | 708353   | 68.081 | ng    | 100      |
| 17) 2-Methylphenol          | 6.97  | 107  | 202538   | 28.143 | ng    | 97       |
| 20) 3+4-Methylphenols       | 7.13  | 107  | 590047   | 69.710 | ng    | 87       |
| 27) 2,4-Dimethylphenol      | 7.66  | 122  | 122022   | 18.064 | ng    | 100      |
| 31) Naphthalene             | 8.02  | 128  | 1388389  | 56.024 | ng    | 100      |
| 37) 2-Methylnaphthalene     | 8.71  | 142  | 47630    | 2.886  | ng    | 97       |
| 48) Acenaphthylene          | 9.61  | 152  | 77485    | 3.490  | ng    | 99       |
| 72) Carbazole               | 11.47 | 167  | 74318    | 4.113  | ng    | 97       |

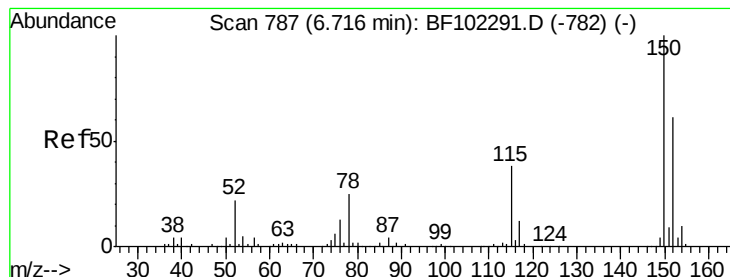
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012318\  
Data File : BF102382.D  
Acq On : 24 Jan 2018 10:38  
Operator : SJ/JU  
Sample : J1239-11DL 10X  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-50-01DL

Quant Time: Jan 24 11:25:00 2018  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 23 00:43:41 2018  
Response via : Initial Calibration



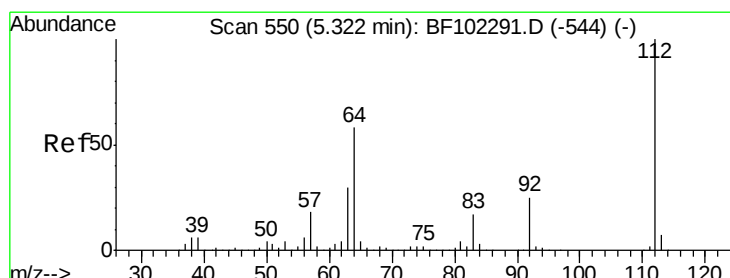
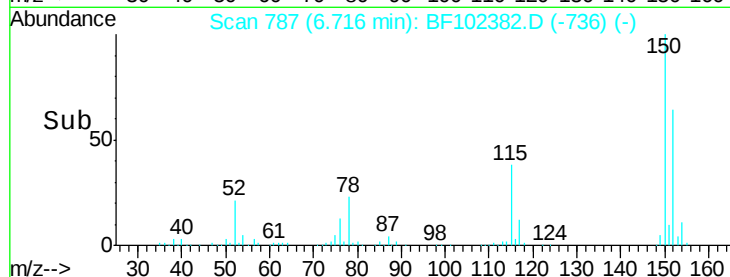
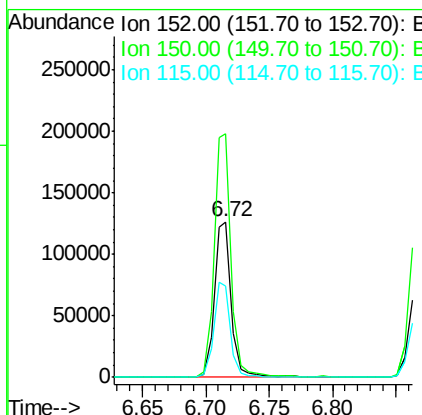
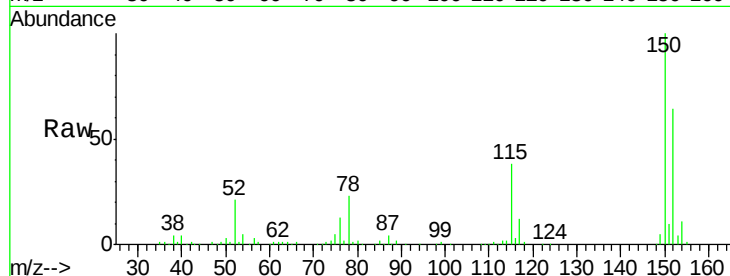


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 787  
Delta R.T. -0.00 min  
Lab File: BF102382.D  
Acq: 24 Jan 2018 10:38

Instrument :  
BNA\_F  
ClientSampleID :  
WC-50-01DL

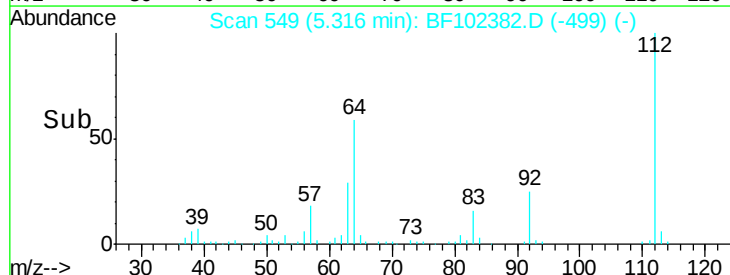
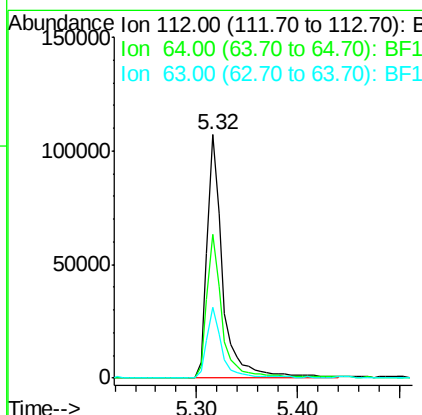
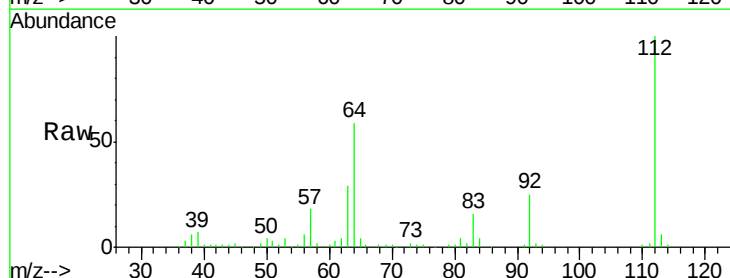
Tgt Ion:152 Resp: 119862  
Ion Ratio Lower Upper  
152 100  
150 156.2 124.6 186.8  
115 58.6 50.1 75.1

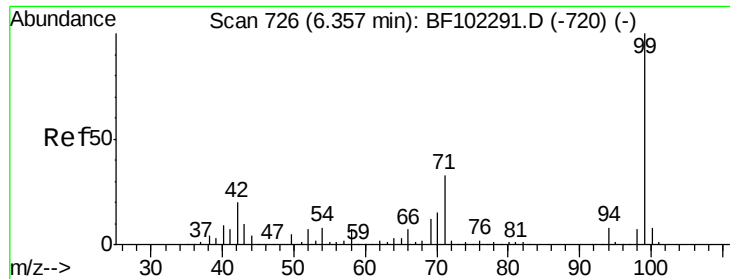


#5

2-Fluorophenol  
Concen: 14.690 ng  
RT: 5.32 min Scan# 549  
Delta R.T. -0.01 min  
Lab File: BF102382.D  
Acq: 24 Jan 2018 10:38

Tgt Ion:112 Resp: 116129  
Ion Ratio Lower Upper  
112 100  
64 59.3 47.9 71.9  
63 28.8 23.7 35.5





#7

Phenol-d6

Concen: 13.718 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF102382.D

Acq: 24 Jan 2018 10:38

Instrument :

BNA\_F

ClientSampleId :

WC-50-01DL

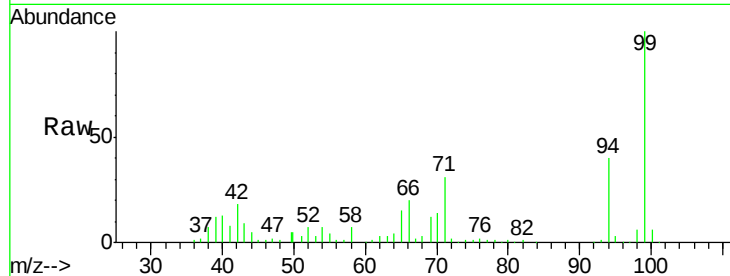
Tgt Ion: 99 Resp: 130739

Ion Ratio Lower Upper

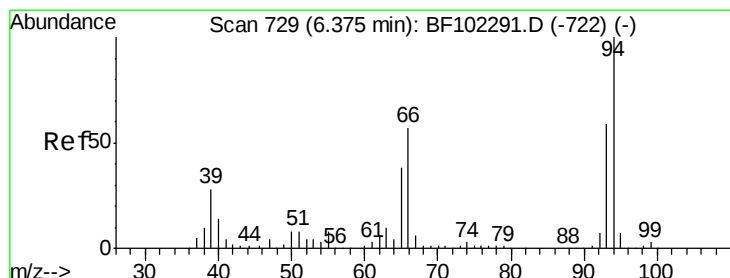
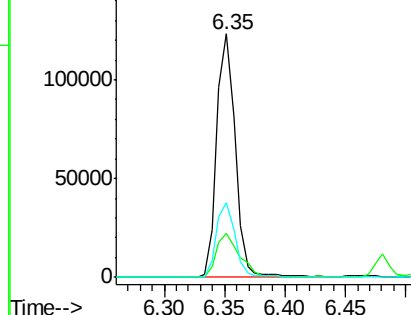
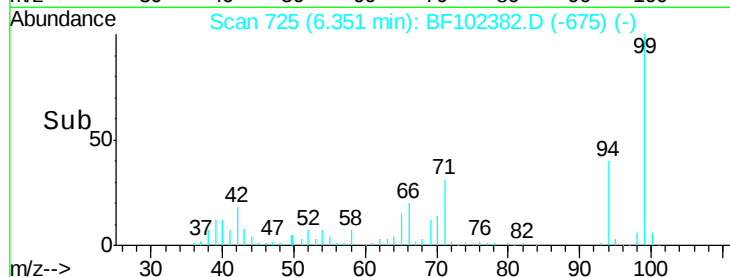
99 100

42 18.2 14.5 21.7

71 30.8 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: 68.081 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF102382.D

Acq: 24 Jan 2018 10:38

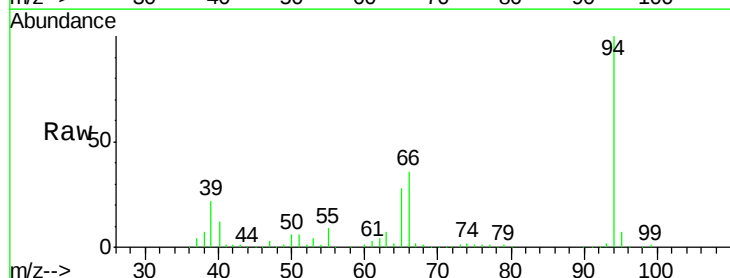
Tgt Ion: 94 Resp: 708353

Ion Ratio Lower Upper

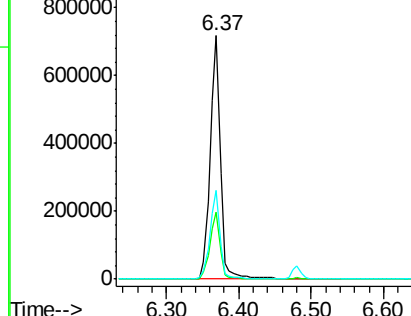
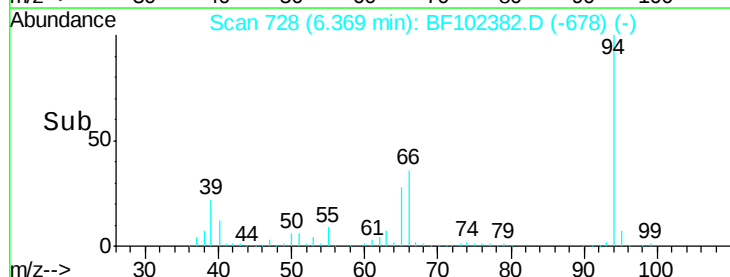
94 100

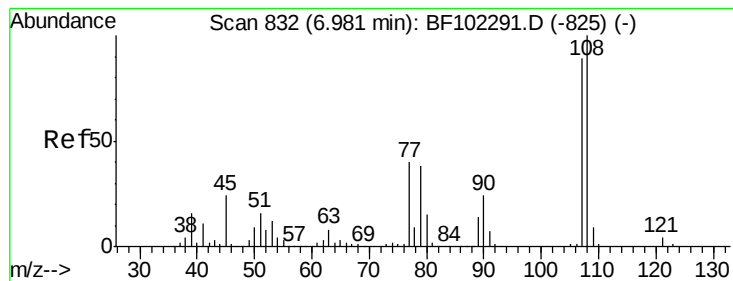
65 27.6 7.9 47.9

66 36.4 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





#17

2-Methylphenol

Concen: 28.143 ng

RT: 6.97 min Scan# 831

Delta R.T. -0.01 min

Lab File: BF102382.D

Acq: 24 Jan 2018 10:38

Instrument :

BNA\_F

ClientSampleId :

WC-50-01DL

Tgt Ion:107 Resp: 202538

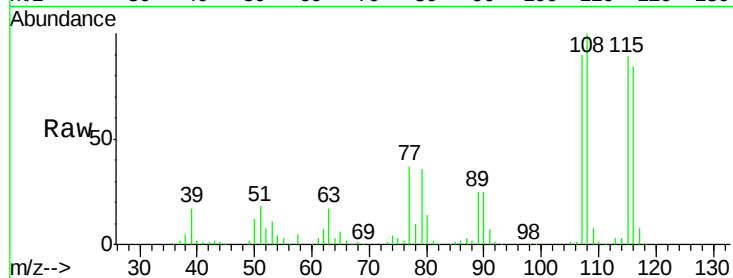
Ion Ratio Lower Upper

107 100

108 111.1 91.7 137.5

77 40.7 33.8 50.8

79 39.9 33.8 50.8

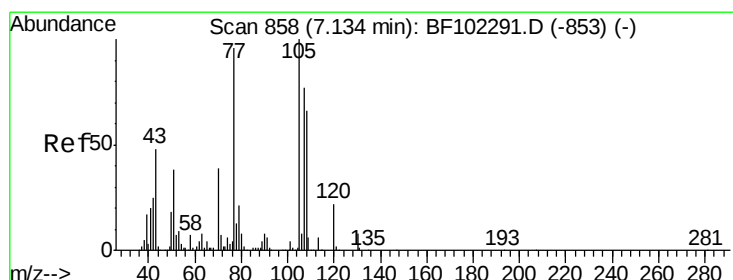
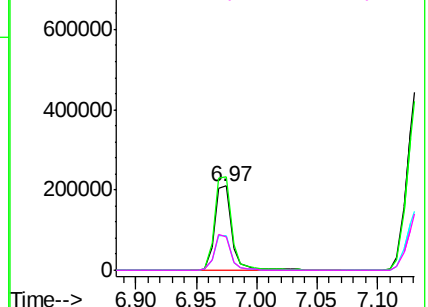
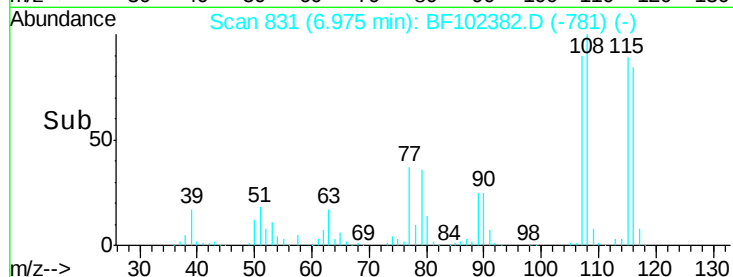


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#20

3+4-Methylphenols

Concen: 69.710 ng

RT: 7.13 min Scan# 858

Delta R.T. -0.00 min

Lab File: BF102382.D

Acq: 24 Jan 2018 10:38

Tgt Ion:107 Resp: 590047

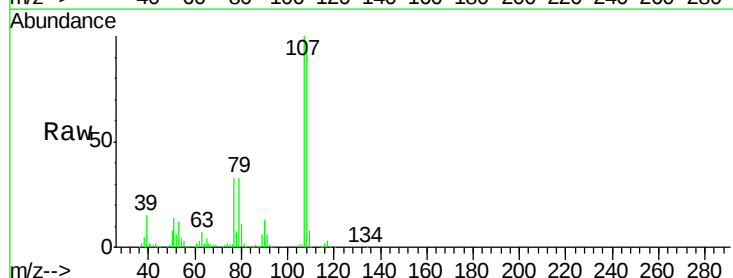
Ion Ratio Lower Upper

107 100

108 97.0 68.2 108.2

77 33.1 26.7 66.7

79 33.5 6.3 46.3

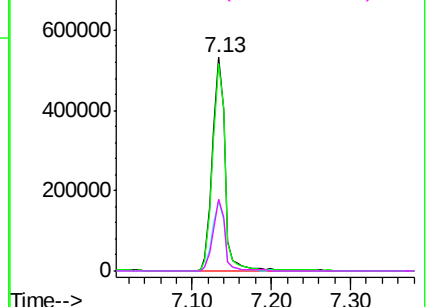
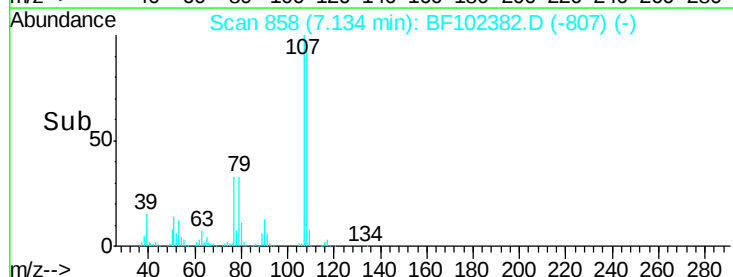


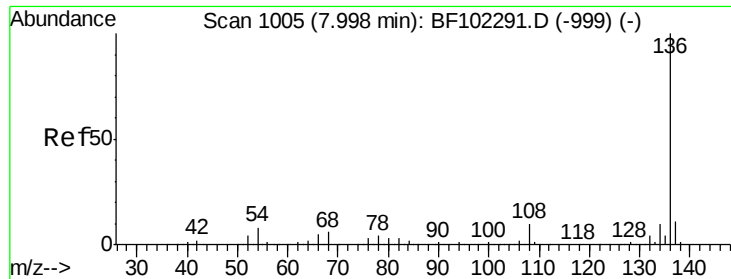
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1

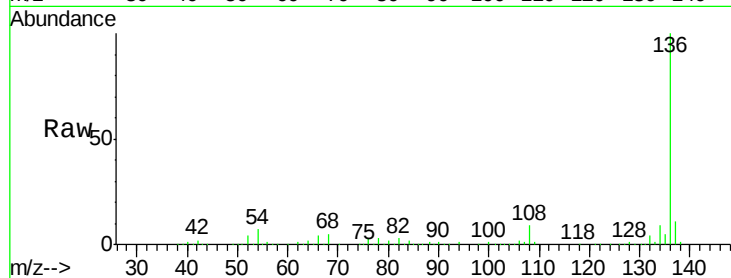




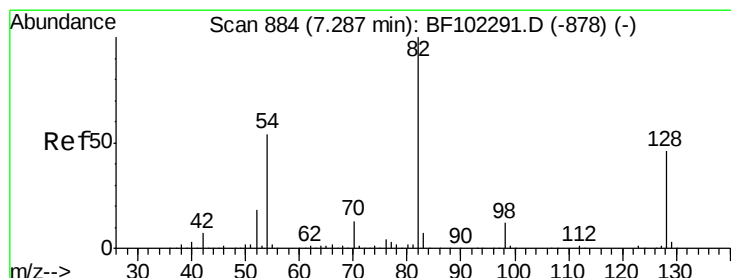
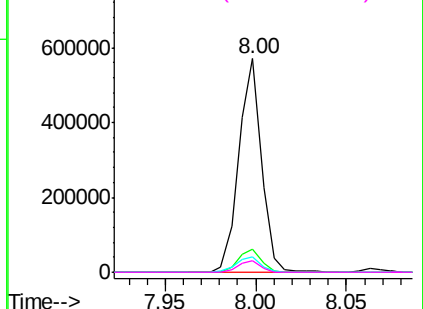
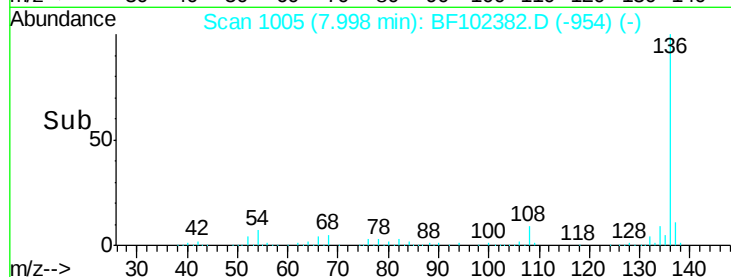
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1005  
Delta R.T. -0.00 min  
Lab File: BF102382.D  
Acq: 24 Jan 2018 10:38

Instrument :  
BNA\_F  
ClientSampleId :  
WC-50-01DL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 496349 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 8.9   | 13.3   |
| 54       | 7.3   | 6.6   | 9.8    |
| 68       | 5.3   | 5.0   | 7.4    |

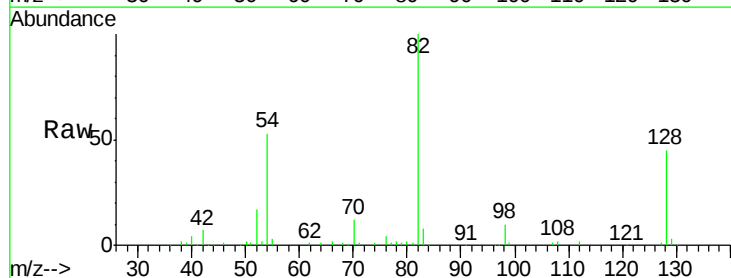


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

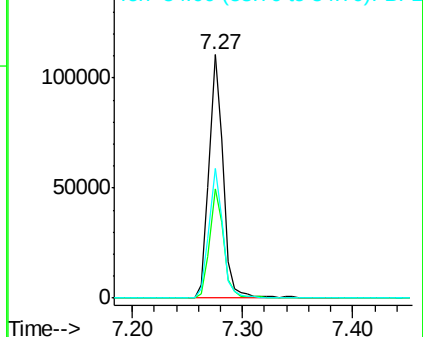
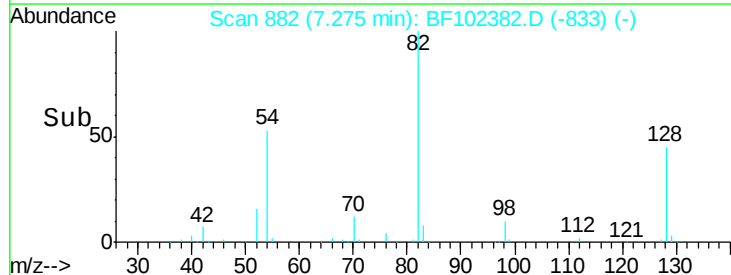


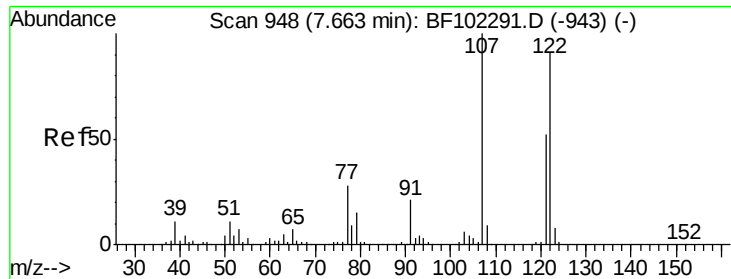
#23  
Nitrobenzene-d5  
Concen: 11.096 ng  
RT: 7.27 min Scan# 882  
Delta R.T. -0.01 min  
Lab File: BF102382.D  
Acq: 24 Jan 2018 10:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 95835 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 44.7  | 36.1  | 54.1  |
| 54       | 53.5  | 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





#27

2,4-Dimethylphenol

Concen: 18.064 ng

RT: 7.66 min Scan# 947

Delta R.T. -0.01 min

Lab File: BF102382.D

Acq: 24 Jan 2018 10:38

Instrument :

BNA\_F

ClientSampleId :

WC-50-01DL

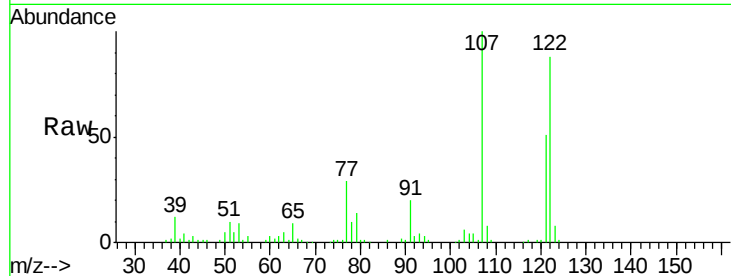
Tgt Ion:122 Resp: 122022

Ion Ratio Lower Upper

122 100

107 114.2 91.2 136.8

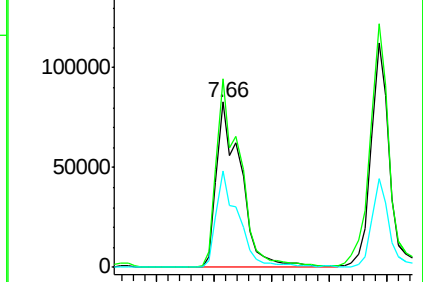
121 58.3 47.2 70.8



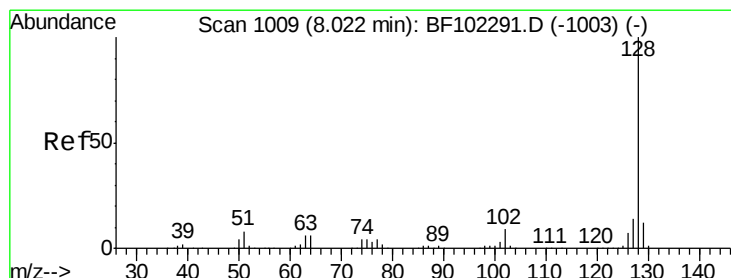
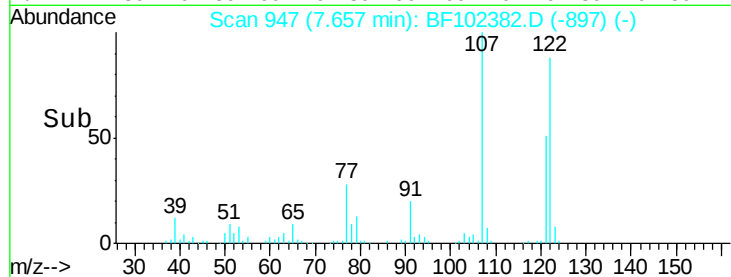
Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



Time-->



#31

Naphthalene

Concen: 56.024 ng

RT: 8.02 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BF102382.D

Acq: 24 Jan 2018 10:38

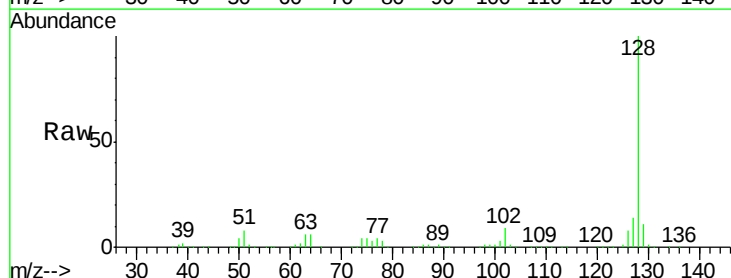
Tgt Ion:128 Resp: 1388389

Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

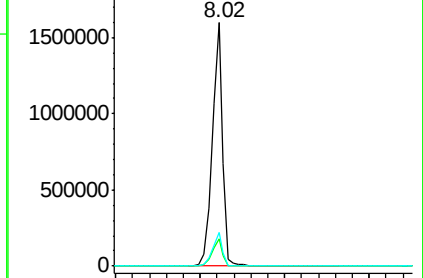
127 13.7 10.9 16.3



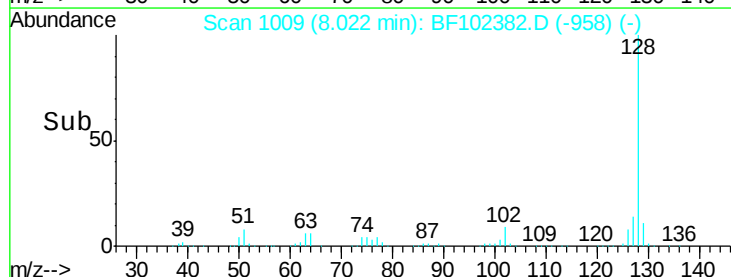
Abundance Ion 128.00 (127.70 to 128.70): E

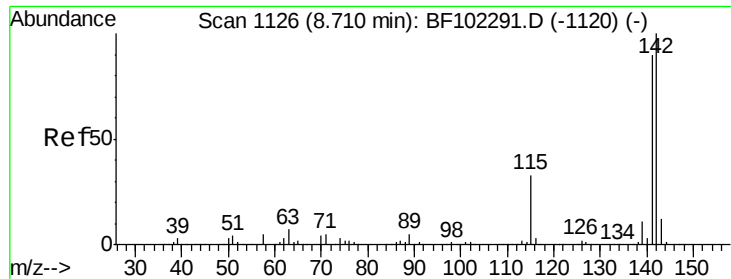
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



Time-->

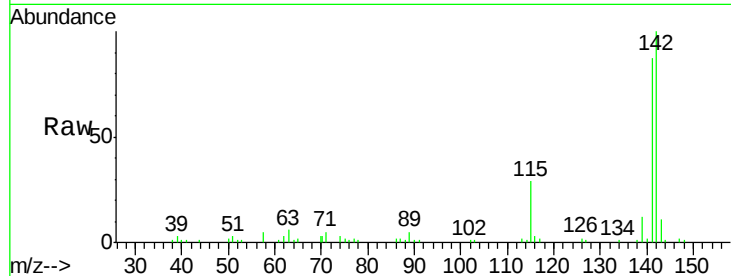




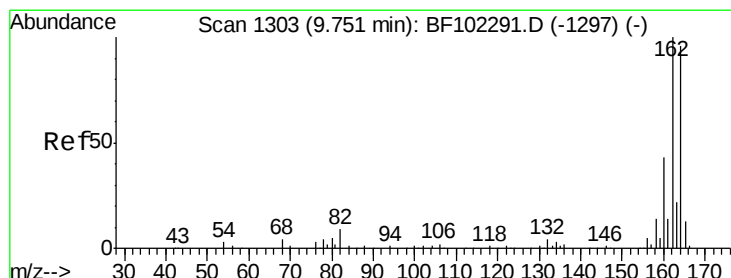
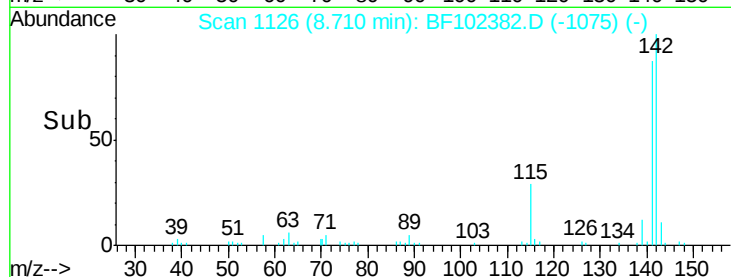
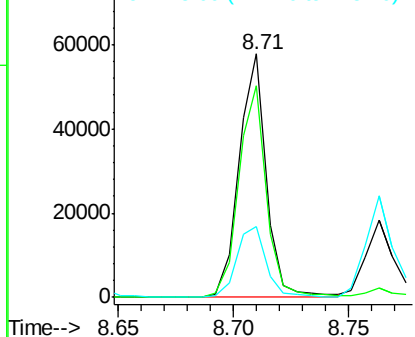
#37  
 2-Methylnaphthalene  
 Concen: 2.886 ng  
 RT: 8.71 min Scan# 1126  
 Delta R.T. -0.00 min  
 Lab File: BF102382.D  
 Acq: 24 Jan 2018 10:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-50-01DL

Tgt Ion:142 Resp: 47630  
 Ion Ratio Lower Upper  
 142 100  
 141 86.9 70.8 106.2  
 115 29.3 26.1 39.1

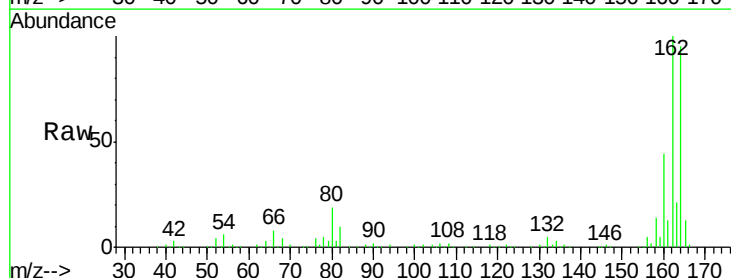


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

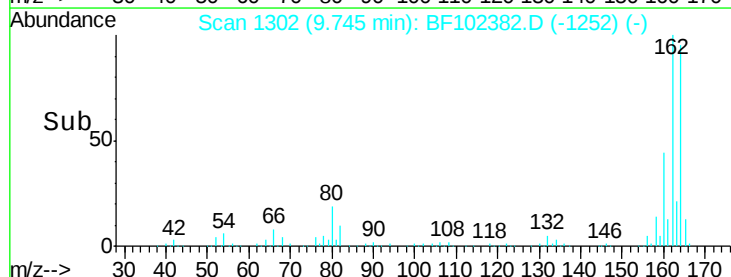
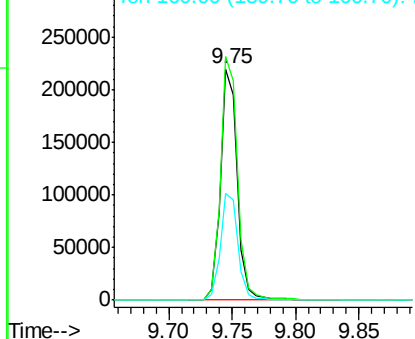


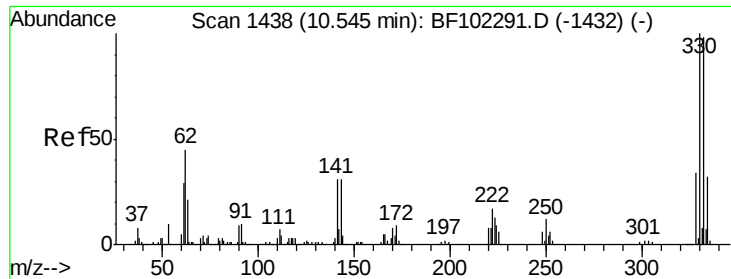
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.75 min Scan# 1302  
 Delta R.T. -0.01 min  
 Lab File: BF102382.D  
 Acq: 24 Jan 2018 10:38

Tgt Ion:164 Resp: 205033  
 Ion Ratio Lower Upper  
 164 100  
 162 105.3 86.1 129.1  
 160 46.0 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

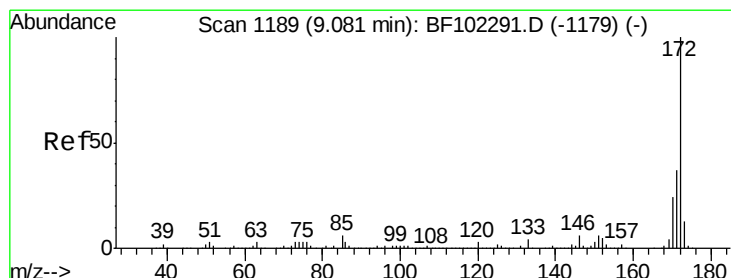
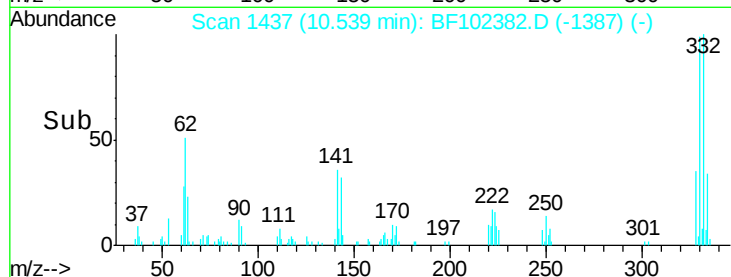
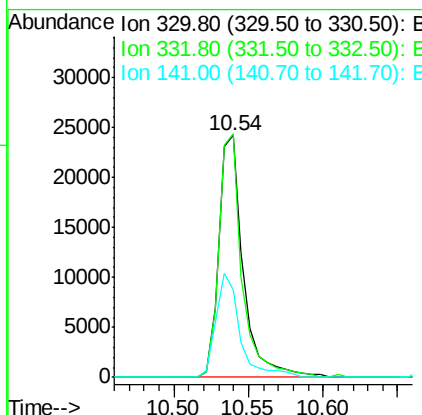
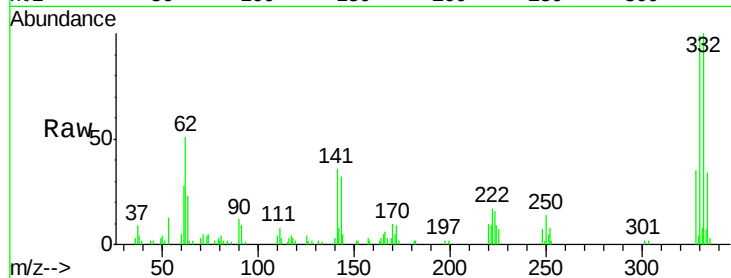




#41  
 2,4,6-Tribromophenol  
 Concen: 13.793 ng  
 RT: 10.54 min Scan# 1437  
 Delta R.T. -0.01 min  
 Lab File: BF102382.D  
 Acq: 24 Jan 2018 10:38

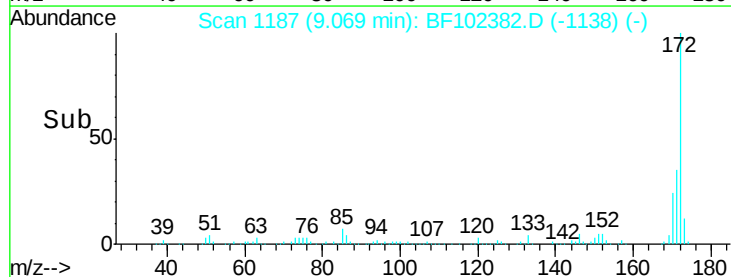
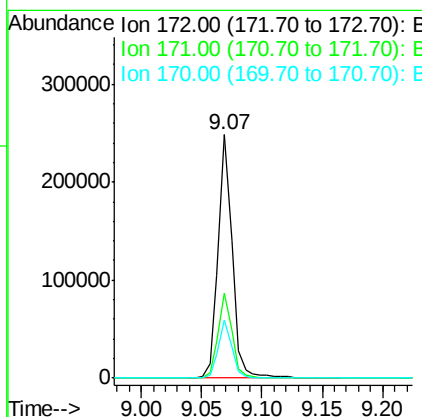
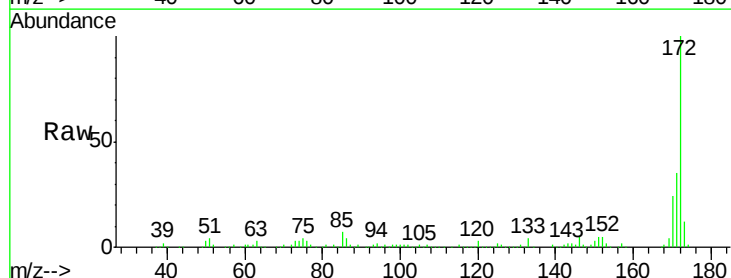
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-50-01DL

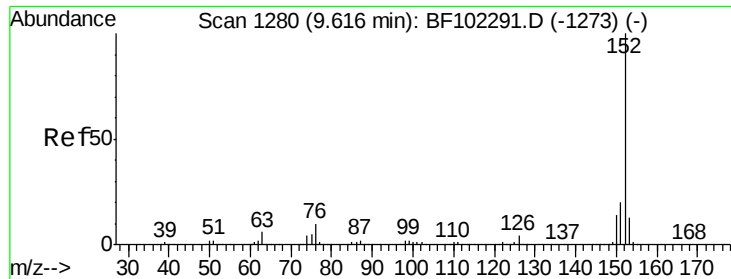
Tgt Ion:330 Resp: 28022  
 Ion Ratio Lower Upper  
 330 100  
 332 95.6 77.0 115.6  
 141 41.9 29.9 44.9



#44  
 2-Fluorobiphenyl  
 Concen: 14.333 ng  
 RT: 9.07 min Scan# 1187  
 Delta R.T. -0.01 min  
 Lab File: BF102382.D  
 Acq: 24 Jan 2018 10:38

Tgt Ion:172 Resp: 199868  
 Ion Ratio Lower Upper  
 172 100  
 171 34.8 29.7 44.5  
 170 23.6 19.6 29.4





#48

Acenaphthylene

Concen: 3.490 ng

RT: 9.61 min Scan# 1279

Delta R.T. -0.01 min

Lab File: BF102382.D

Acq: 24 Jan 2018 10:38

Instrument :

BNA\_F

ClientSampleId :

WC-50-01DL

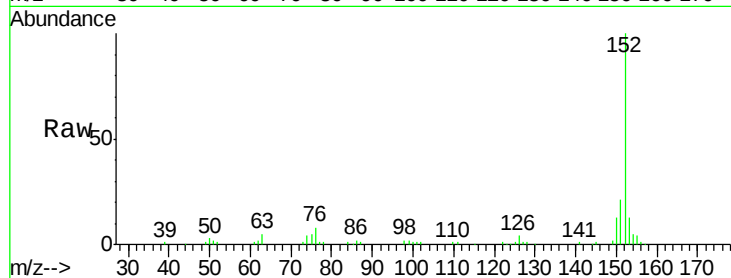
Tgt Ion:152 Resp: 77485

Ion Ratio Lower Upper

152 100

151 20.7 16.3 24.5

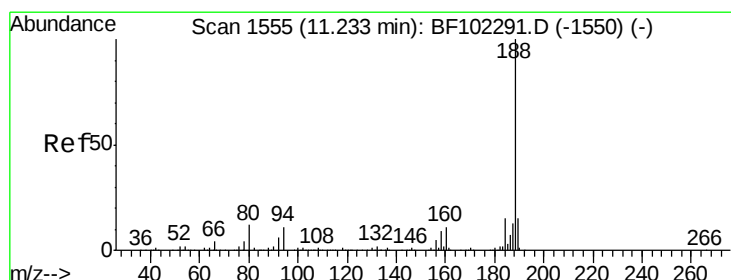
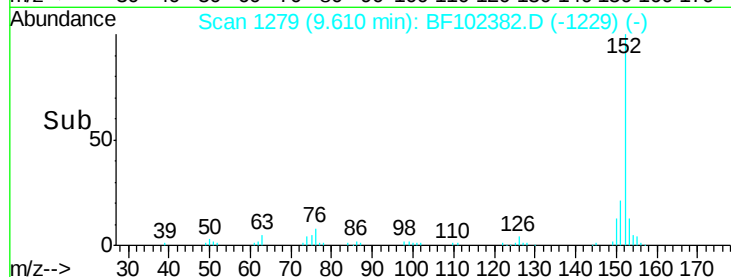
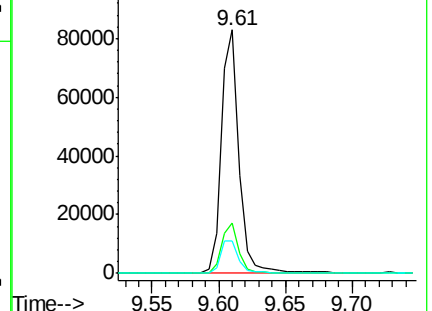
153 13.2 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.23 min Scan# 1555

Delta R.T. -0.00 min

Lab File: BF102382.D

Acq: 24 Jan 2018 10:38

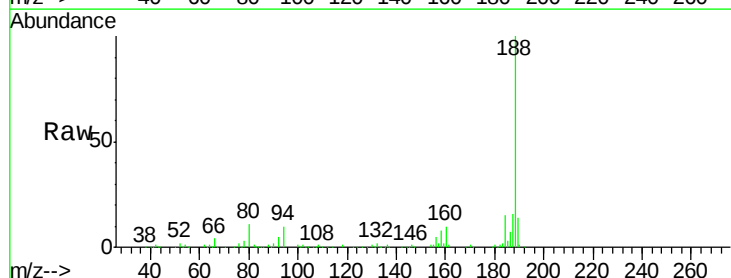
Tgt Ion:188 Resp: 311416

Ion Ratio Lower Upper

188 100

94 9.8 8.5 12.7

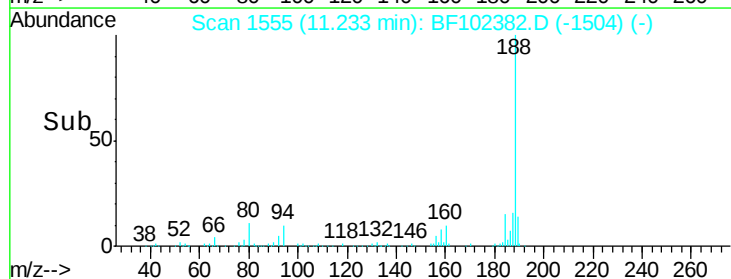
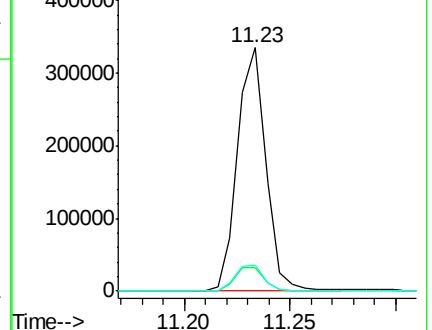
80 10.7 9.2 13.8

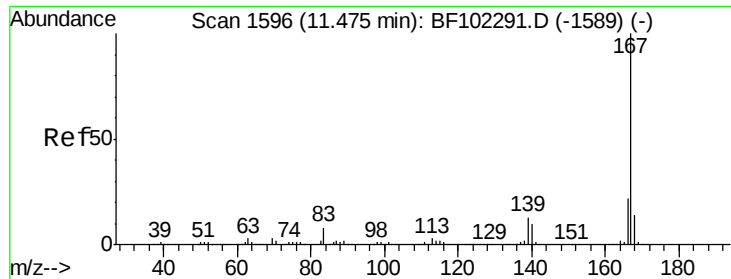


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#72

Carbazole

Concen: 4.113 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF102382.D

Acq: 24 Jan 2018 10:38

Instrument :

BNA\_F

ClientSampleId :

WC-50-01DL

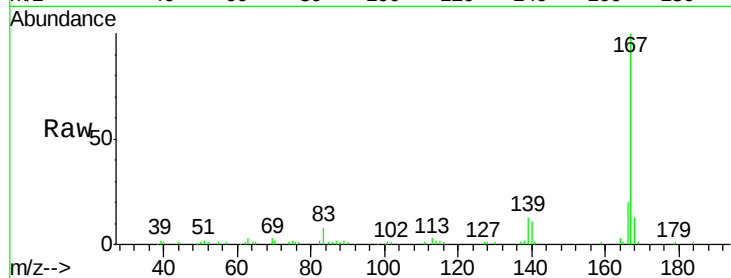
Tgt Ion:167 Resp: 74318

Ion Ratio Lower Upper

167 100

166 20.2 17.6 26.4

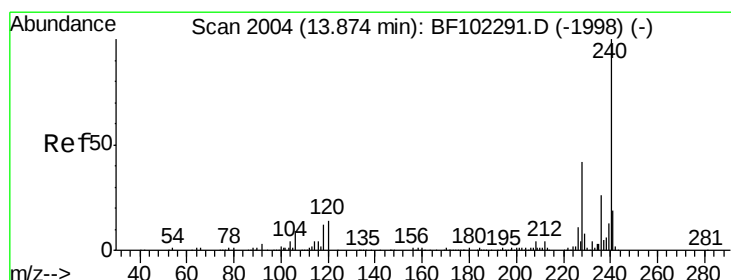
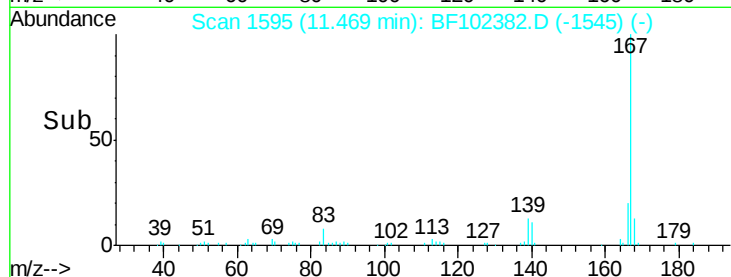
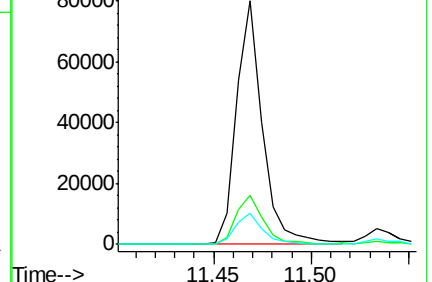
139 12.6 10.9 16.3



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF102382.D

Acq: 24 Jan 2018 10:38

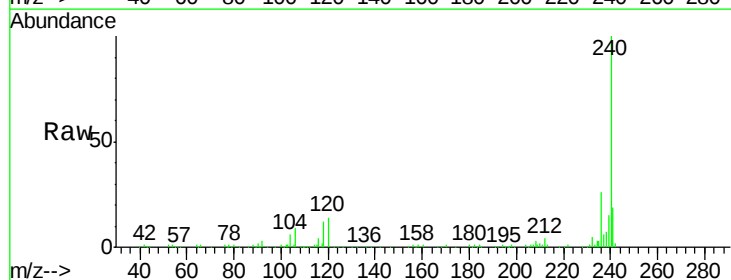
Tgt Ion:240 Resp: 226175

Ion Ratio Lower Upper

240 100

120 13.9 9.5 14.3

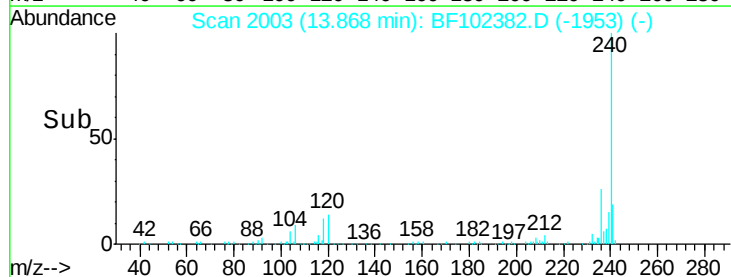
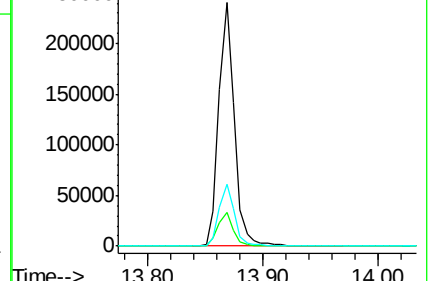
236 25.6 20.7 31.1

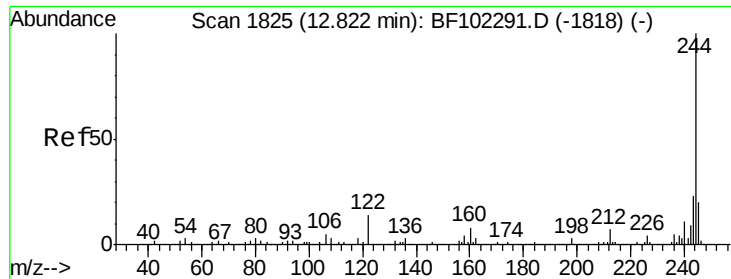


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

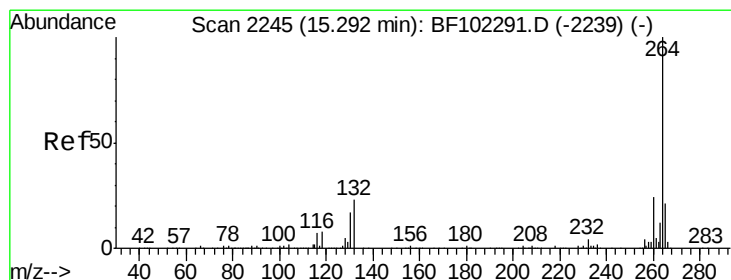
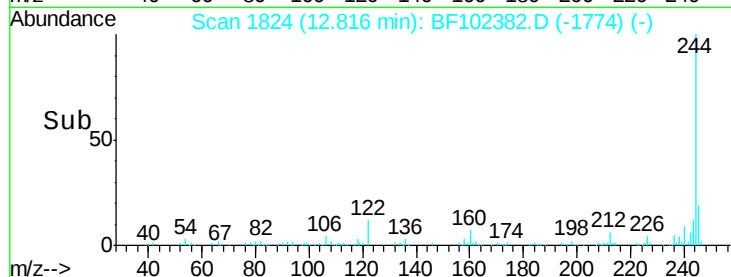
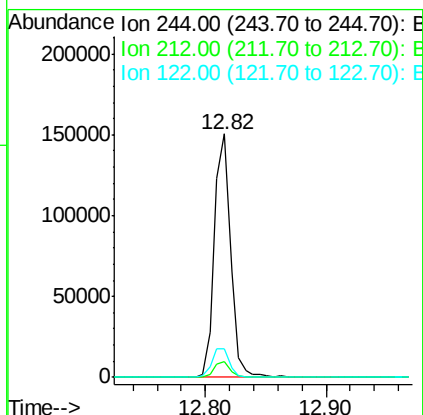
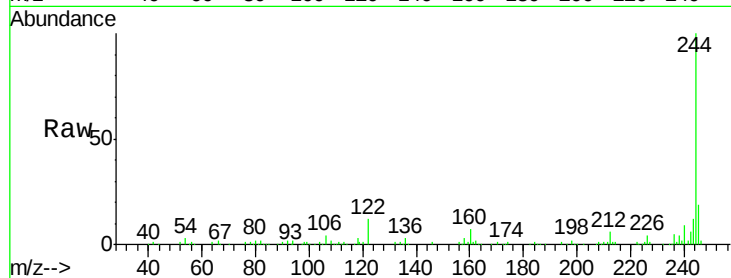




#78  
 Terphenyl-d14  
 Concen: 13.839 ng  
 RT: 12.82 min Scan# 1824  
 Delta R.T. -0.01 min  
 Lab File: BF102382.D  
 Acq: 24 Jan 2018 10:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-50-01DL

Tgt Ion:244 Resp: 138847  
 Ion Ratio Lower Upper  
 244 100  
 212 6.3 5.4 8.0  
 122 11.8 11.0 16.4



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.29 min Scan# 2245  
 Delta R.T. -0.00 min  
 Lab File: BF102382.D  
 Acq: 24 Jan 2018 10:38

Tgt Ion:264 Resp: 221926  
 Ion Ratio Lower Upper  
 264 100  
 260 23.2 19.2 28.8  
 265 23.0 17.5 26.3

