

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042718\  
 Data File : BF104916.D  
 Acq On : 28 Apr 2018 7:54  
 Operator : JU/SJ  
 Sample : J2565-02  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

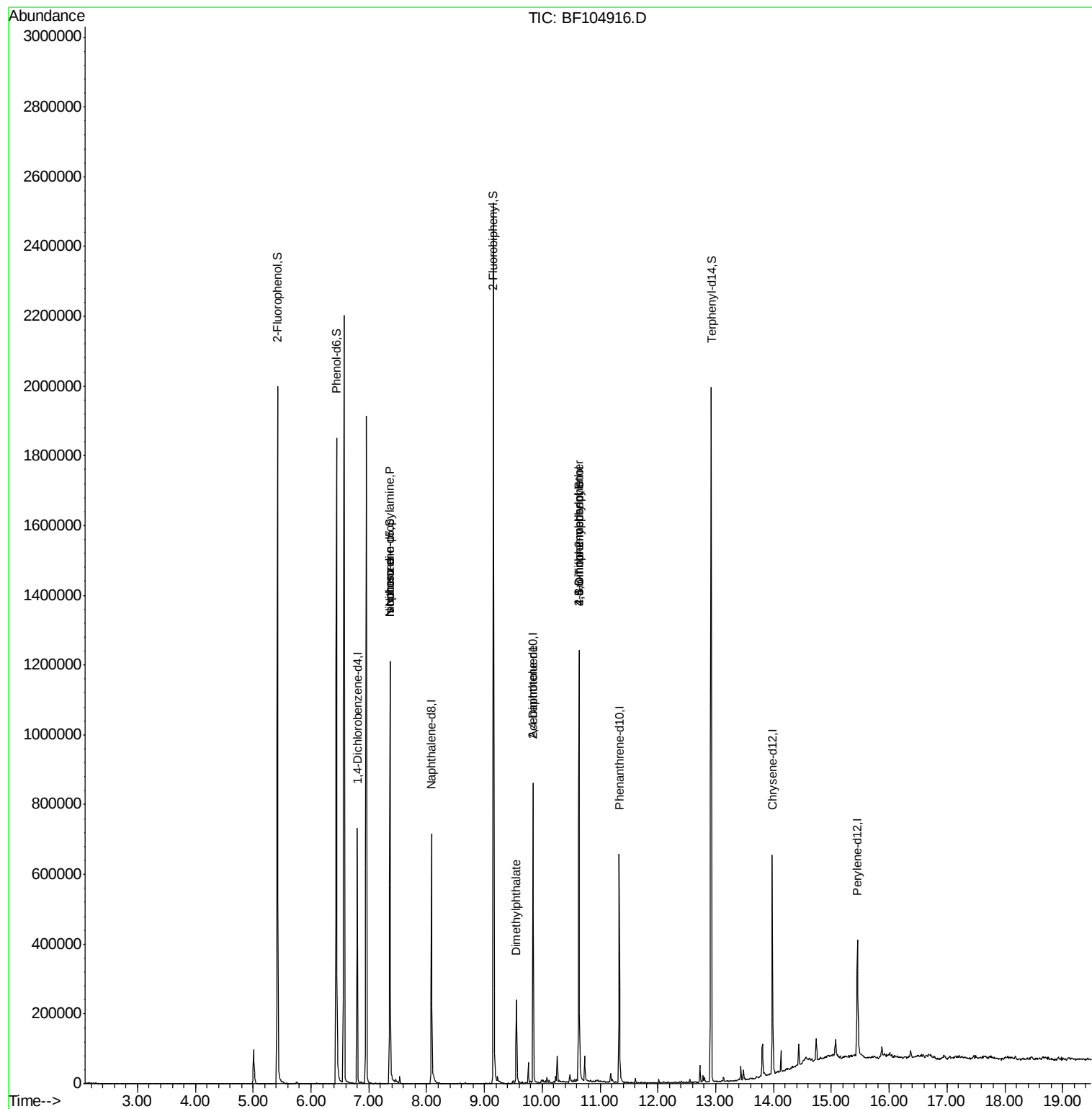
Quant Time: Apr 30 02:24:34 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 27 17:16:11 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 101911   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.08  | 136  | 401170   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.84  | 164  | 160778   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.33 | 188  | 264864   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.98 | 240  | 217812   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.45 | 264  | 148241   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 648167   | 97.25     | ng    | 0.01     |
| 7) Phenol-d6                   | 6.44  | 99   | 774945   | 94.63     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 459461   | 74.79     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.63 | 330  | 156392   | 93.77     | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 794828   | 78.10     | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.92 | 244  | 700186   | 73.29     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 57576    | 10.759    | ng    | # 72     |
| 25) Isophorone                 | 7.37  | 82   | 459457   | 35.366    | ng    | # 64     |
| 49) Dimethylphthalate          | 9.55  | 163  | 110728   | 8.733     | ng    | # 99     |
| 56) 2,4-Dinitrotoluene         | 9.84  | 165  | 20221    | 6.571     | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.63 | 198  | 237      | 7.503     | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248  | 9469     | 3.361     | ng    | # 1      |
| 76) Benzidine                  | 12.92 | 184  | 8874     | Below Cal |       | 97       |

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

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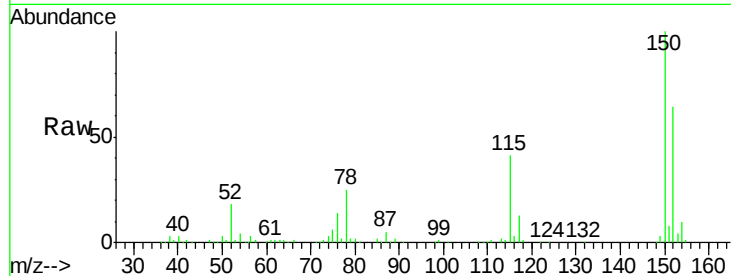




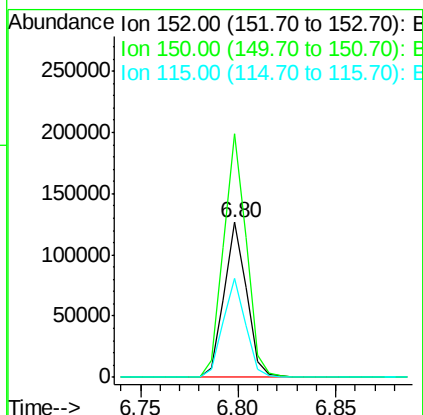
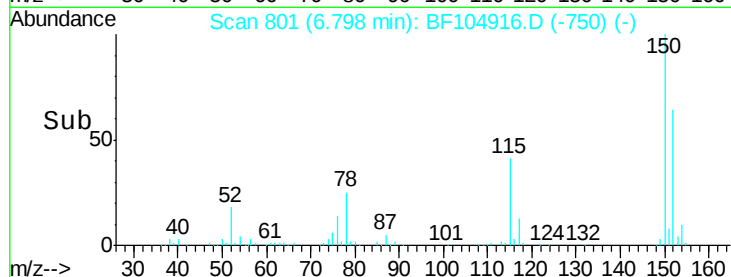
#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. 0.00 min  
Lab File: BF104916.D  
Acq: 28 Apr 2018 7:54

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.9 | 124.6 | 186.8 |
| 115     | 63.9  | 50.1  | 75.1  |



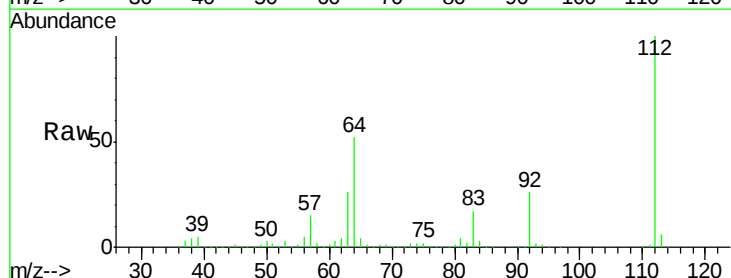
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



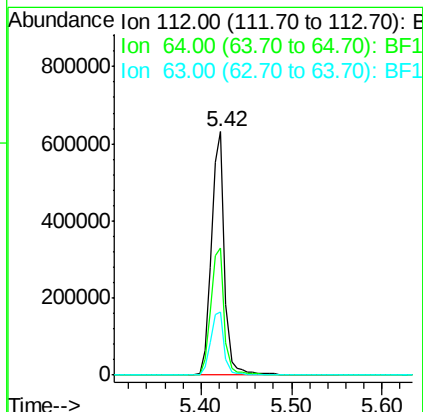
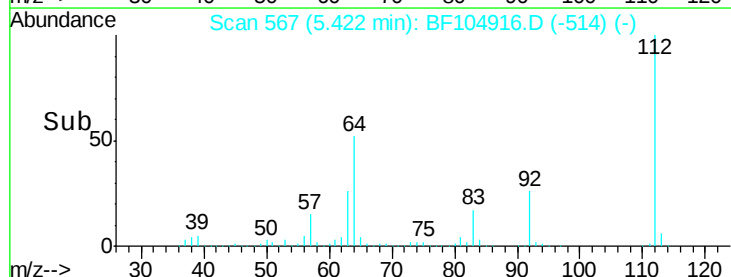
#5

2-Fluorophenol  
Concen: 97.250 ng  
RT: 5.42 min Scan# 567  
Delta R.T. 0.01 min  
Lab File: BF104916.D  
Acq: 28 Apr 2018 7:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.3  | 47.9  | 71.9  |
| 63      | 26.2  | 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: 94.632 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104916.D

Acq: 28 Apr 2018 7:54

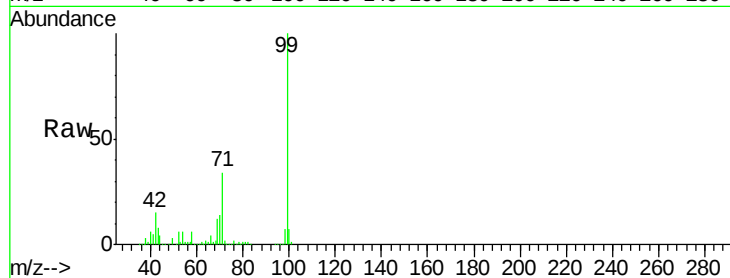
Tot Ion: 99 Resp: 774945

Ion Ratio Lower Upper

99 100

42 15.4 14.5 21.7

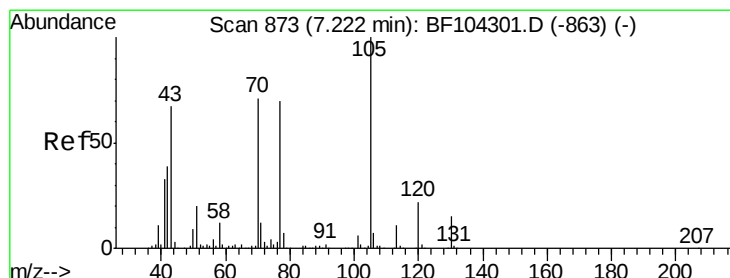
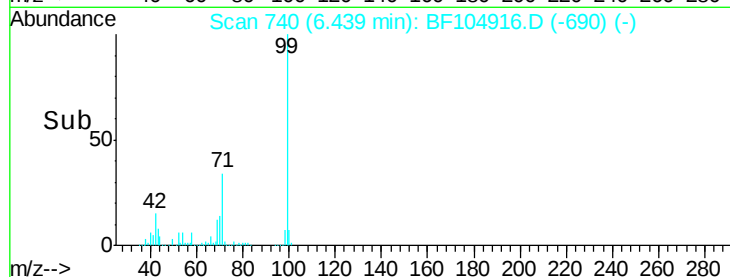
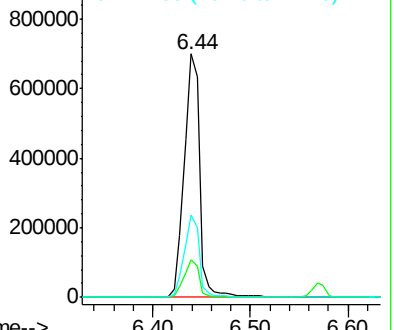
71 33.9 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 10.759 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.15 min

Lab File: BF104916.D

Acq: 28 Apr 2018 7:54

Tgt Ion: 70 Resp: 57576

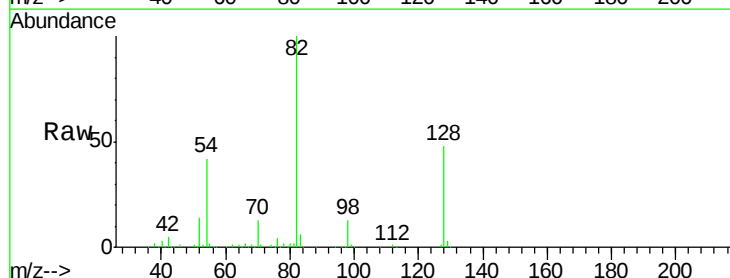
Ion Ratio Lower Upper

70 100

42 41.1 47.5 71.3#

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#

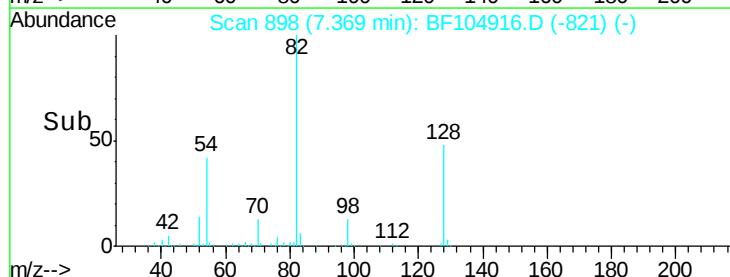
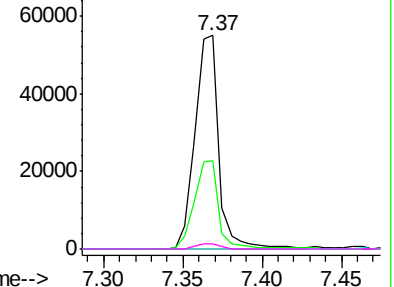


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

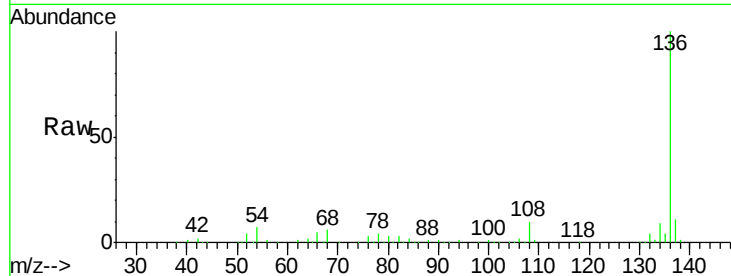
RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF104916.D

Acq: 28 Apr 2018 7:54

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 401170   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.3  | 8.9 13.3 |
| 54          | 6.5   | 6.6 9.8# |
| 68          | 6.0   | 5.0 7.4  |

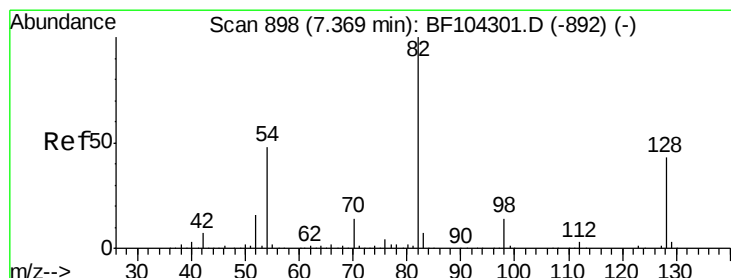
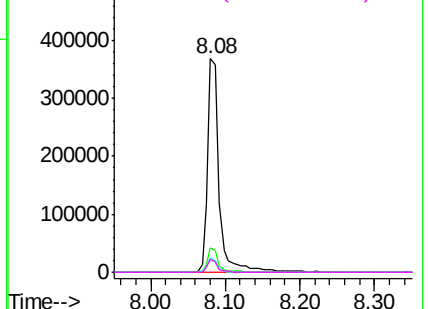
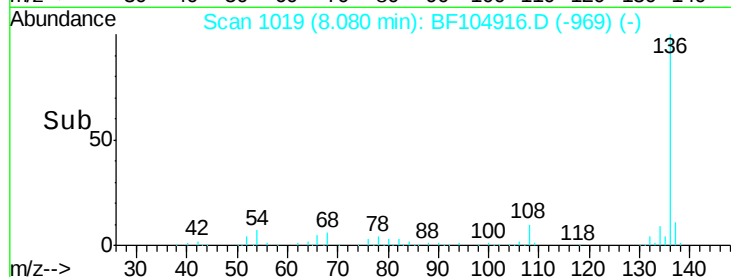


Abundance Ion 136.00 (135.70 to 136.70): E

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: 74.786 ng

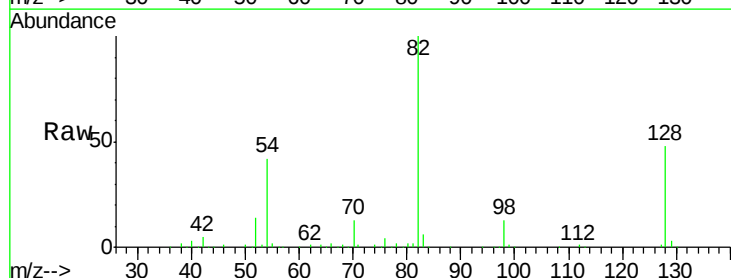
RT: 7.37 min Scan# 898

Delta R.T. 0.00 min

Lab File: BF104916.D

Acq: 28 Apr 2018 7:54

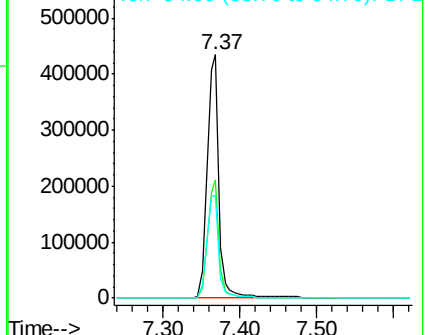
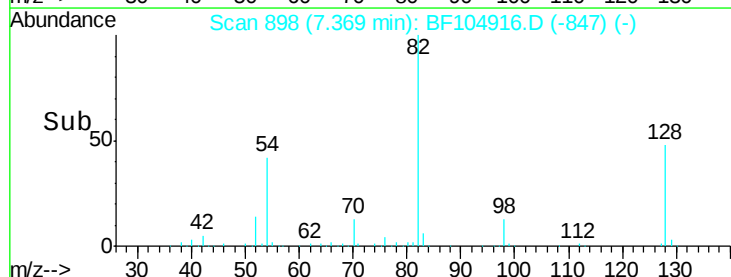
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 459461    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 48.4  | 36.1 54.1 |
| 54          | 42.0  | 41.4 62.2 |

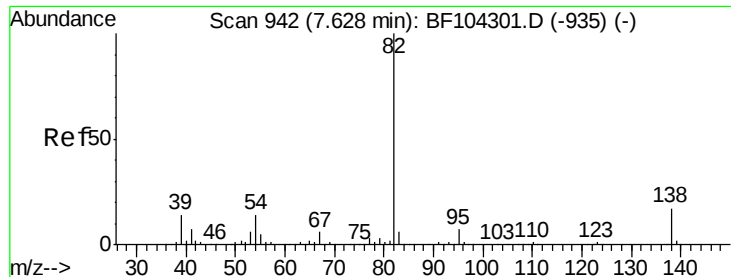


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 35.366 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.26 min

Lab File: BF104916.D

Acq: 28 Apr 2018 7:54

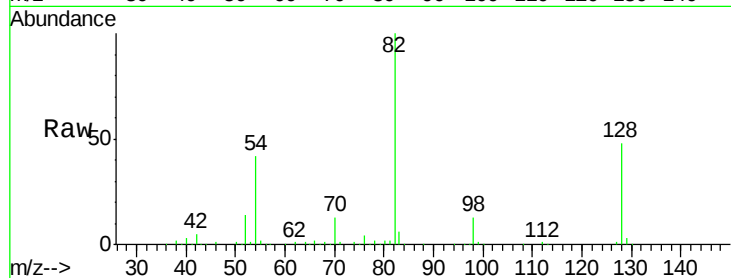
Tot Ion: 82 Resp: 459457

Ion Ratio Lower Upper

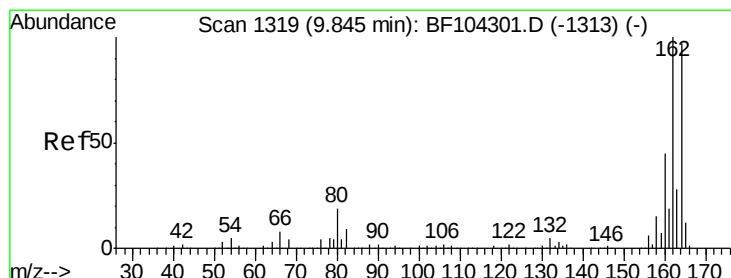
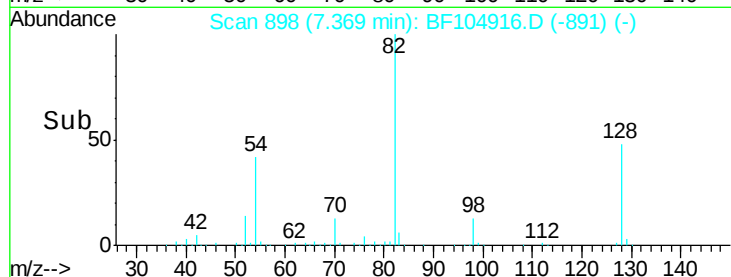
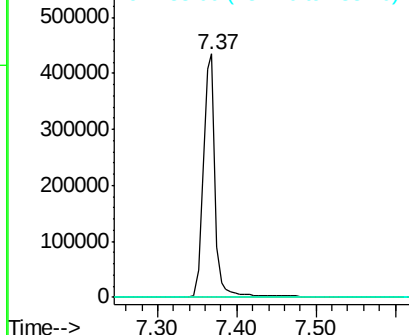
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BF104916.D

Acq: 28 Apr 2018 7:54

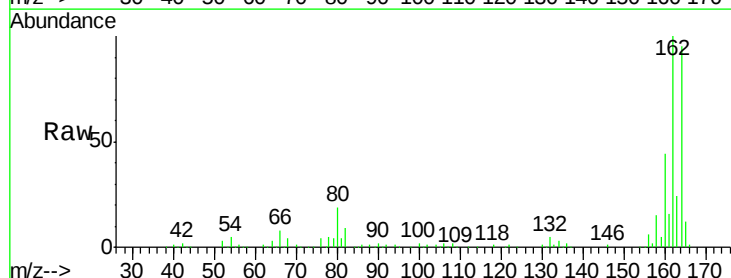
Tgt Ion: 164 Resp: 160778

Ion Ratio Lower Upper

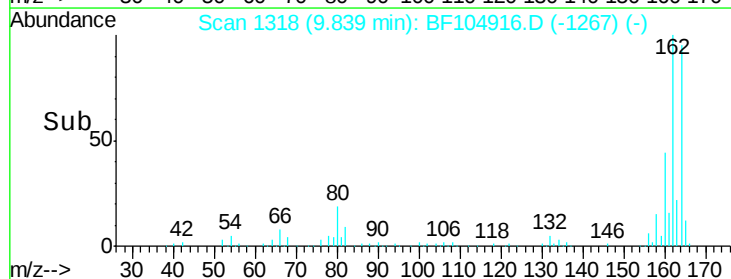
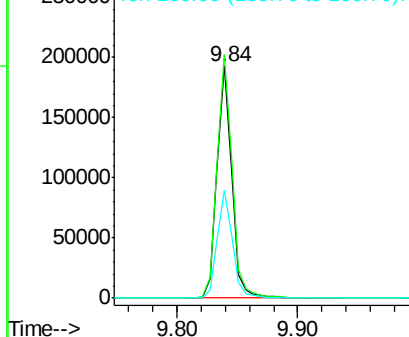
164 100

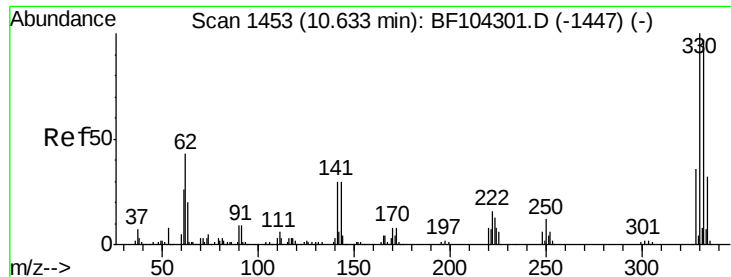
162 105.0 86.1 129.1

160 46.5 38.3 57.5



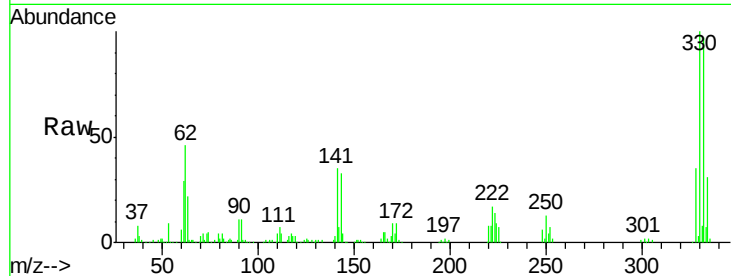
Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E



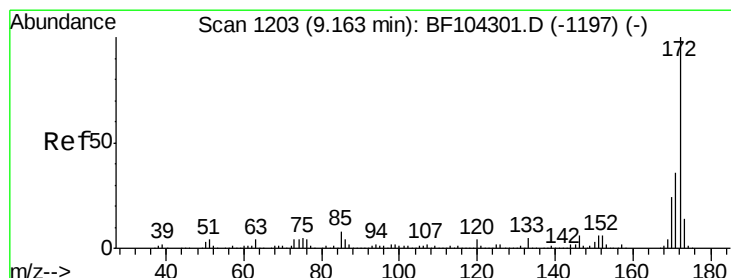
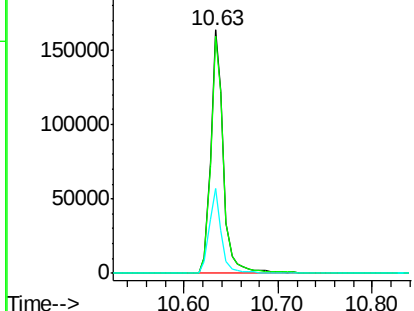
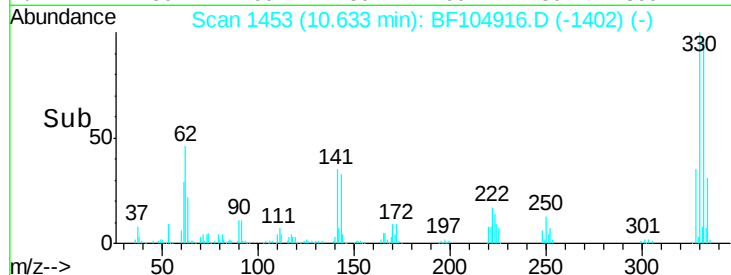


#41  
 2,4,6-Tribromophenol  
 Concen: 93.772 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. 0.00 min  
 Lab File: BF104916.D  
 Acq: 28 Apr 2018 7:54

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.1  | 77.0  | 115.6 |
| 141     | 33.9  | 29.9  | 44.9  |

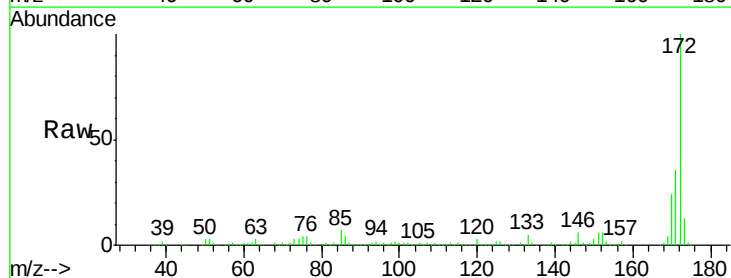


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

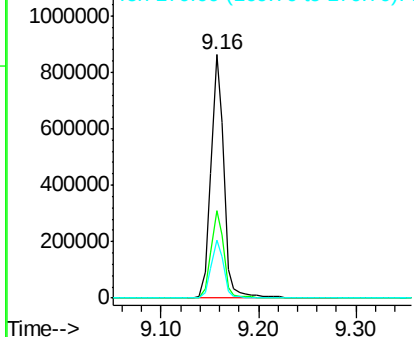
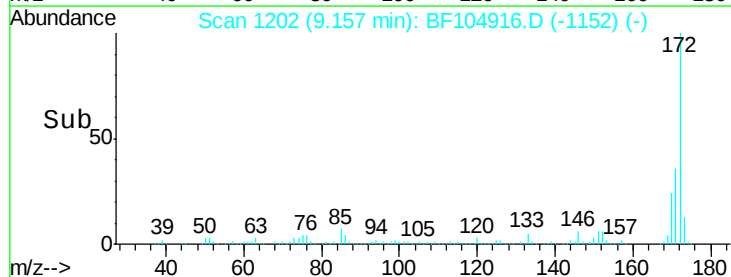


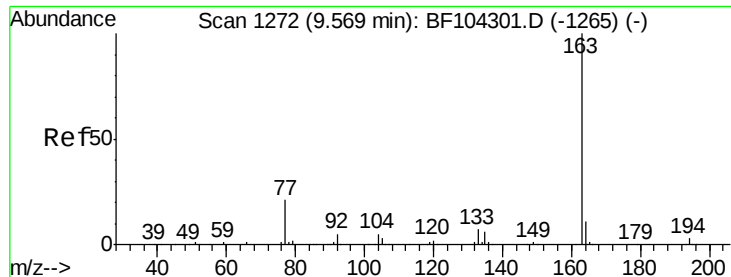
#44  
 2-Fluorobiphenyl  
 Concen: 78.097 ng  
 RT: 9.16 min Scan# 1202  
 Delta R.T. -0.01 min  
 Lab File: BF104916.D  
 Acq: 28 Apr 2018 7:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.7  | 44.5  |
| 170     | 23.7  | 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: 8.733 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.01 min

Lab File: BF104916.D

Acq: 28 Apr 2018 7:54

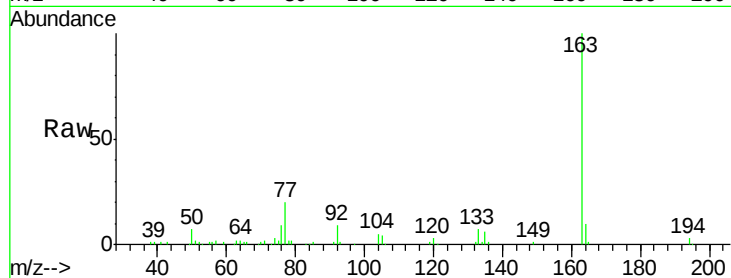
Tot Ion:163 Resp: 110728

Ion Ratio Lower Upper

163 100

194 3.4 2.7 4.1

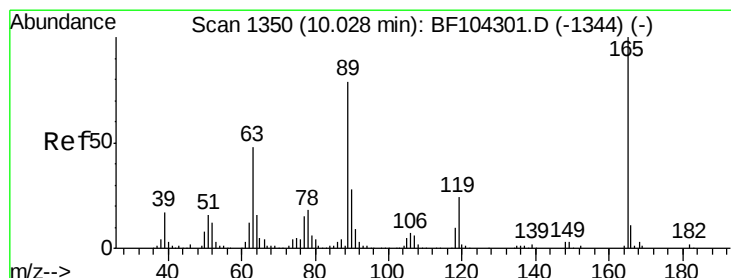
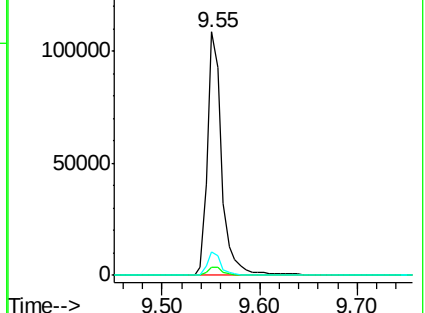
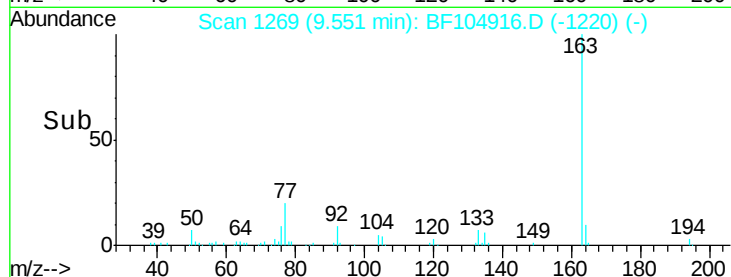
164 9.6 8.2 12.2



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



#56

2,4-Dinitrotoluene

Concen: 6.571 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.20 min

Lab File: BF104916.D

Acq: 28 Apr 2018 7:54

Tgt Ion:165 Resp: 20221

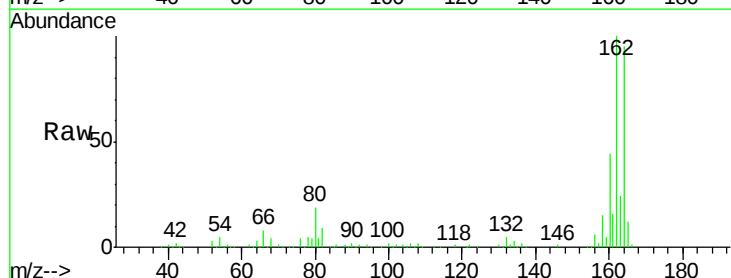
Ion Ratio Lower Upper

165 100

63 1.4 36.4 54.6#

89 1.4 57.8 86.6#

182 0.0 1.6 2.4#

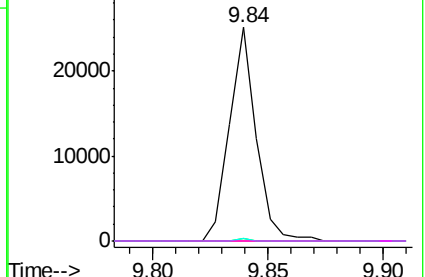
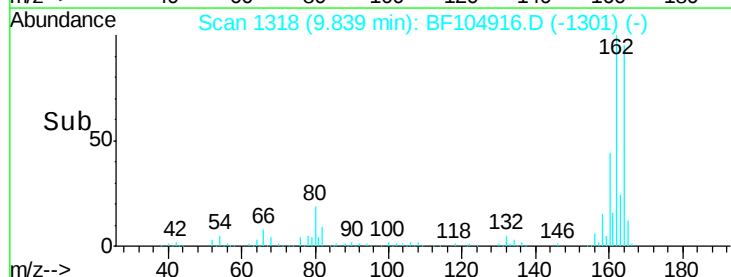


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

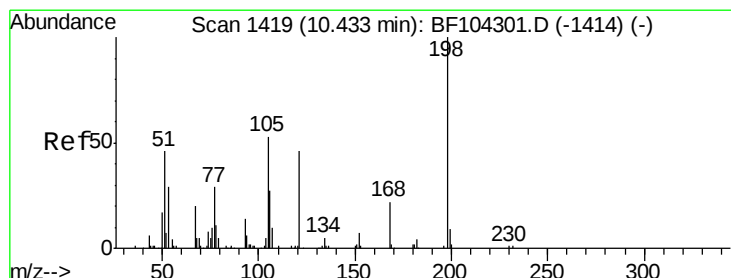
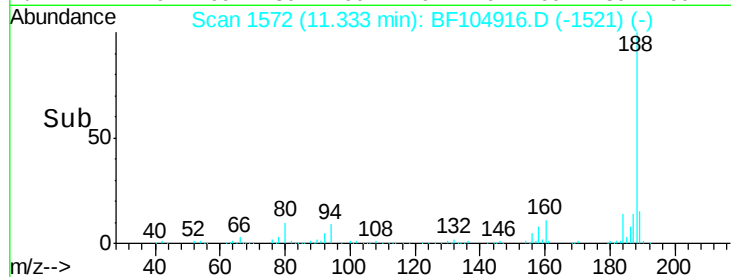
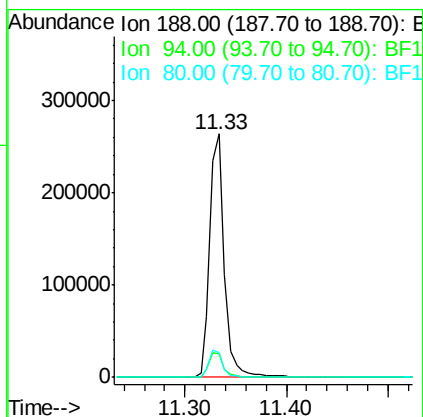
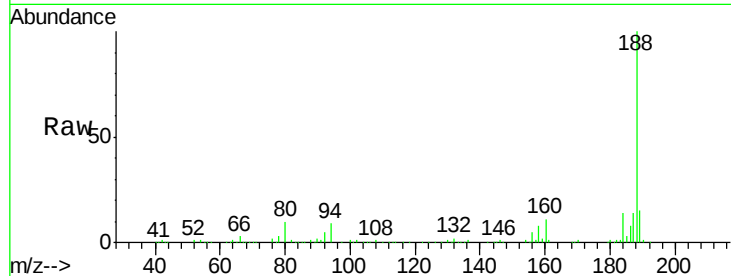
Ion 182.00 (181.70 to 182.70): E





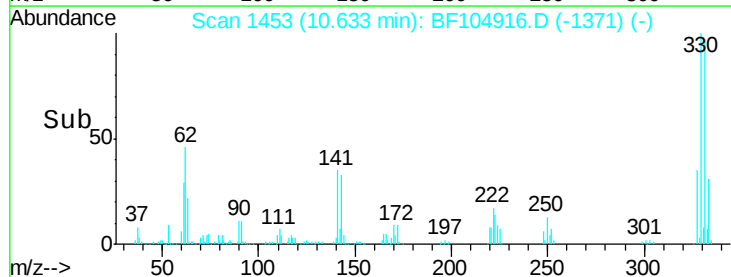
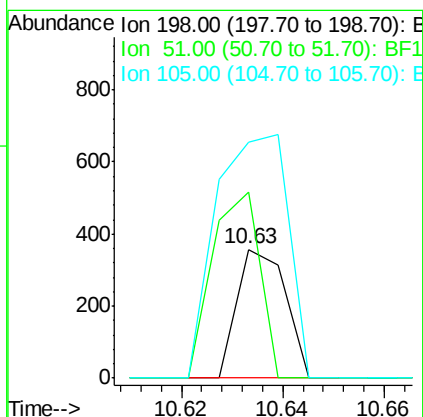
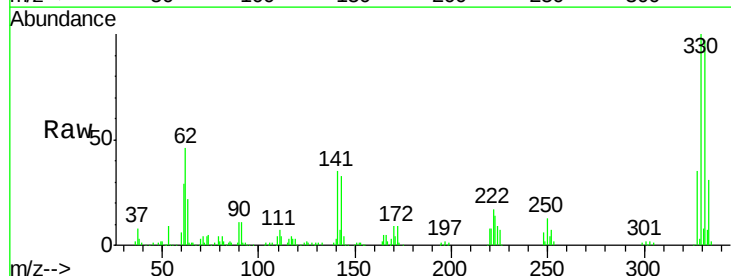
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1572  
 Delta R.T. 0.00 min  
 Lab File: BF104916.D  
 Acq: 28 Apr 2018 7:54

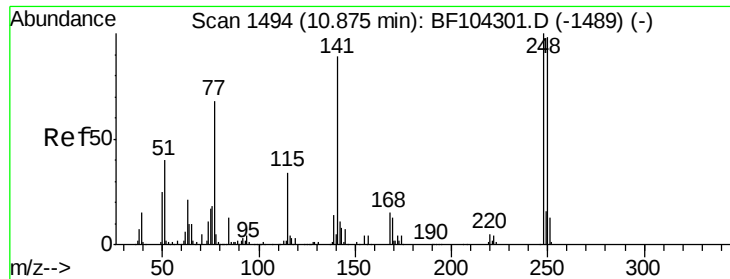
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.5   | 8.5   | 12.7  |
| 80      | 10.1  | 9.2   | 13.8  |



#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.503 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. 0.18 min  
 Lab File: BF104916.D  
 Acq: 28 Apr 2018 7:54

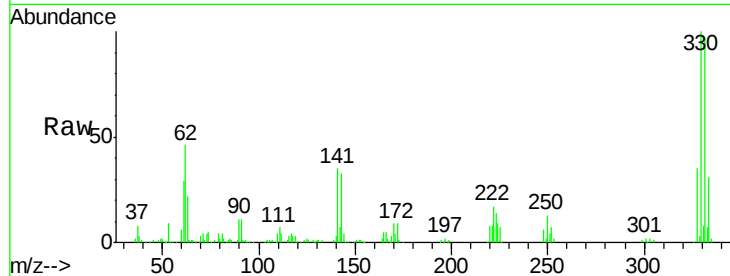
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 144.8 | 37.7  | 77.7# |
| 105     | 183.5 | 36.3  | 76.3# |



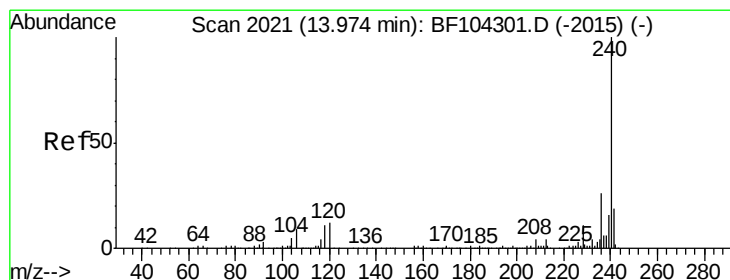
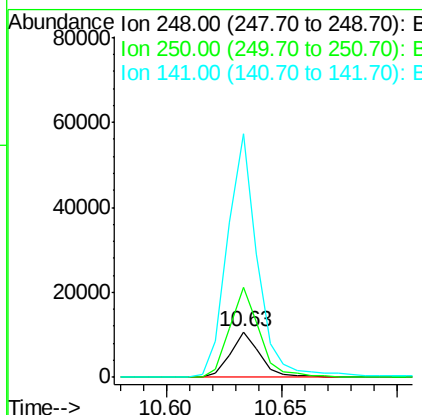
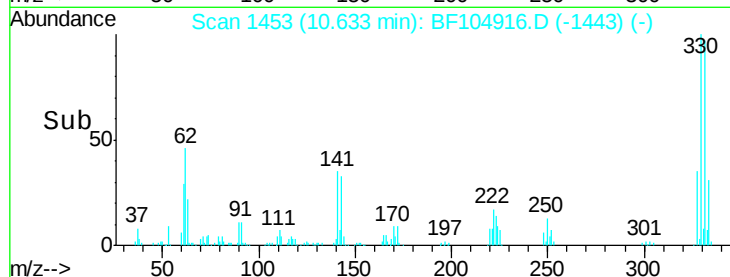


#66  
 4-Bromophenyl-phenylether  
 Concen: 3.361 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.24 min  
 Lab File: BF104916.D  
 Acq: 28 Apr 2018 7:54

Tot Ion:248 Resp: 9469  
 Ion Ratio Lower Upper  
 248 100  
 250 199.2 76.9 115.3#  
 141 538.8 74.4 111.6#

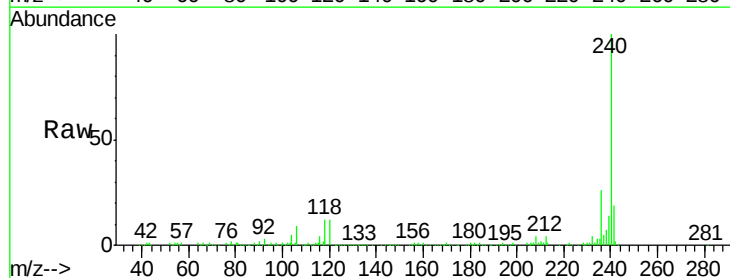


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

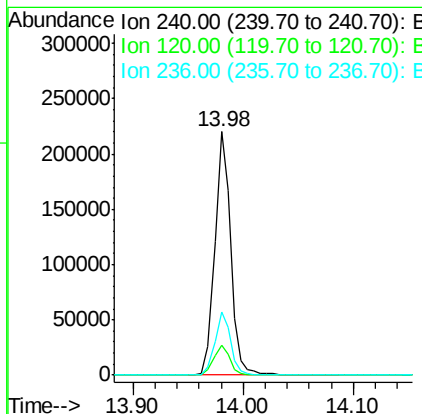
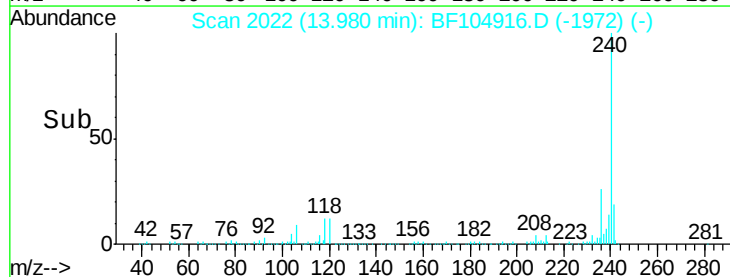


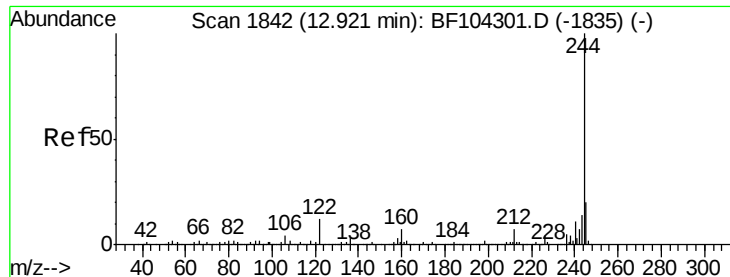
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.98 min Scan# 2022  
 Delta R.T. -0.01 min  
 Lab File: BF104916.D  
 Acq: 28 Apr 2018 7:54

Tgt Ion:240 Resp: 217812  
 Ion Ratio Lower Upper  
 240 100  
 120 12.4 9.5 14.3  
 236 25.9 20.7 31.1



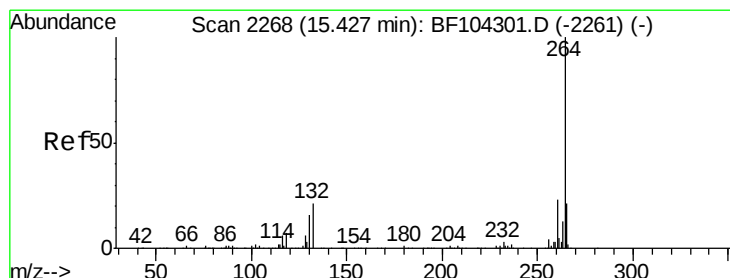
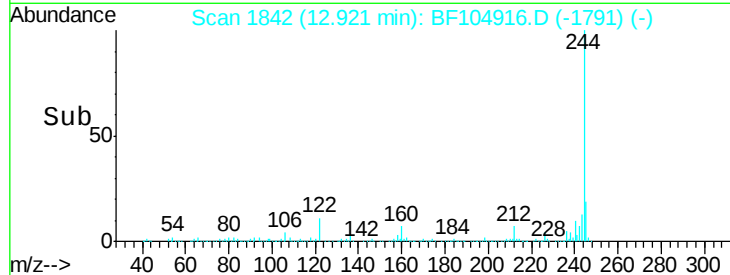
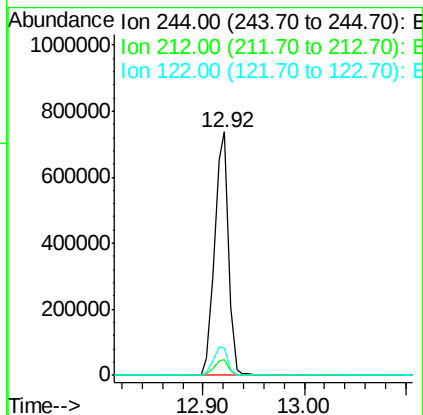
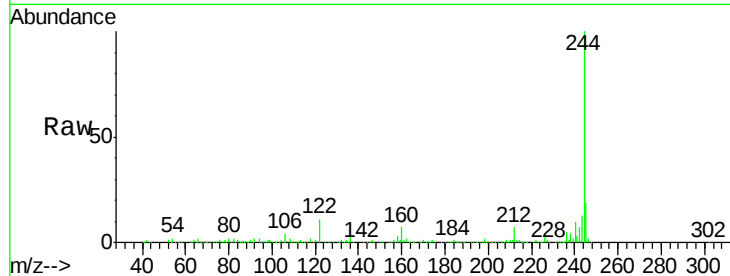
Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





#78  
 Terphenyl-d14  
 Concen: 73.288 ng  
 RT: 12.92 min Scan# 1842  
 Delta R.T. 0.00 min  
 Lab File: BF104916.D  
 Acq: 28 Apr 2018 7:54

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 5.4   | 8.0   |
| 122     | 11.4  | 11.0  | 16.4  |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.45 min Scan# 2272  
 Delta R.T. 0.00 min  
 Lab File: BF104916.D  
 Acq: 28 Apr 2018 7:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.2  | 28.8  |
| 265     | 21.7  | 17.5  | 26.3  |

