

Data Path : Z:\HPCHEM1\BNA G\DATA\BG052918\  
 Data File : BG034802.D  
 Acq On : 30 May 2018 11:02  
 Operator : SJ/JU  
 Sample : J3124-11  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

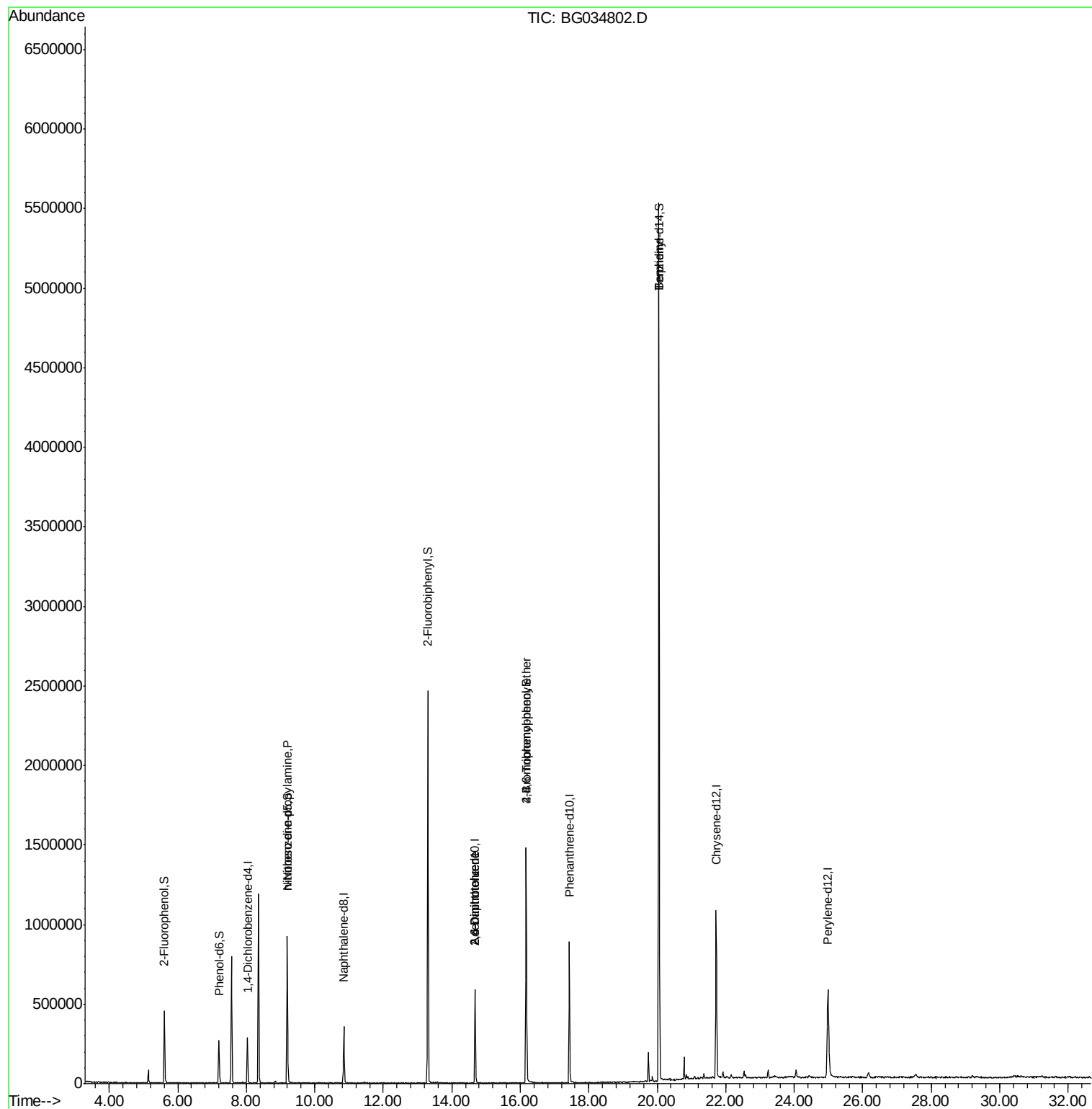
Quant Time: May 30 12:21:44 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG051618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 25 14:58:34 2018  
 Response via : Initial Calibration

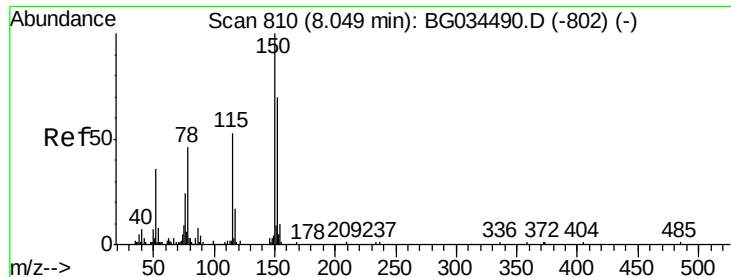
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 84146    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.85 | 136  | 306213   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.68 | 164  | 213699   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.44 | 188  | 577818   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.72 | 240  | 718776   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 24.99 | 264  | 730533   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 213952   | 39.16  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 180973   | 20.48  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.20  | 82   | 629420   | 78.52  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.17 | 330  | 323185   | 87.81  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 1377085  | 87.49  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.05 | 244  | 2720467  | 83.00  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.19  | 70   | 84235    | 11.637 | ng    | # 60     |
| 50) 2,6-Dinitrotoluene         | 14.68 | 165  | 27472    | 7.263  | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 14.68 | 165  | 27472    | 4.893  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.17 | 248  | 25161    | 3.309  | ng    | # 1      |
| 76) Benzidine                  | 20.05 | 184  | 38315    | 5.224  | ng    | # 88     |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 25 14:58:34 2018  
Response via : Initial Calibration

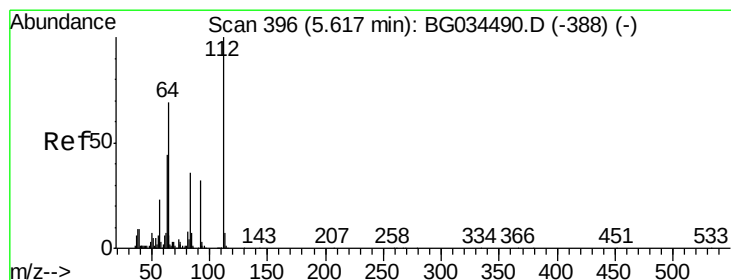
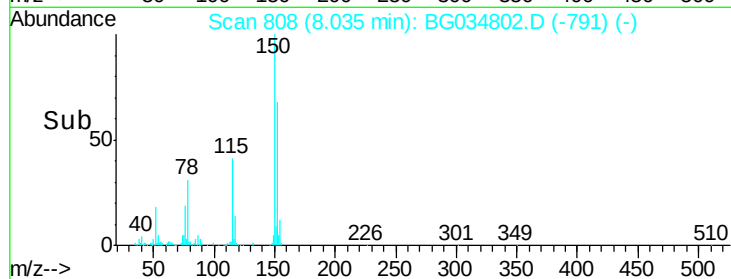
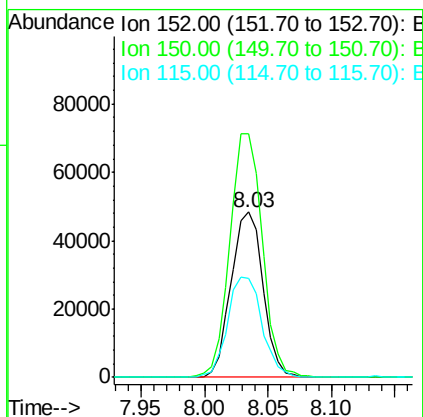
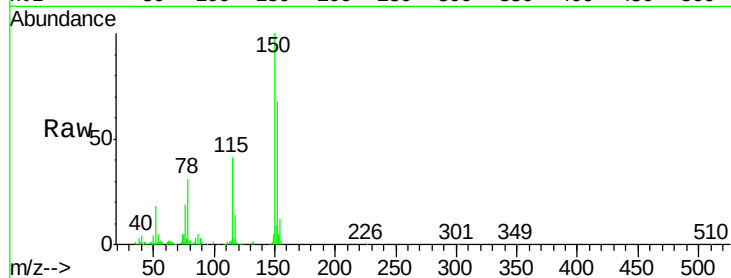




#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.03 min Scan# 808  
Delta R.T. -0.00 min  
Lab File: BG034802.D  
Acq: 30 May 2018 11:02

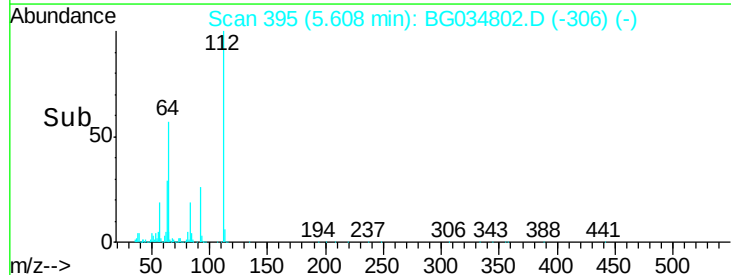
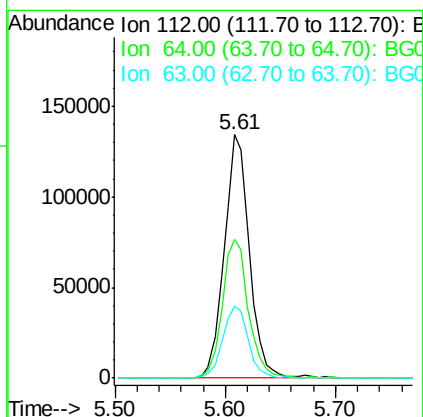
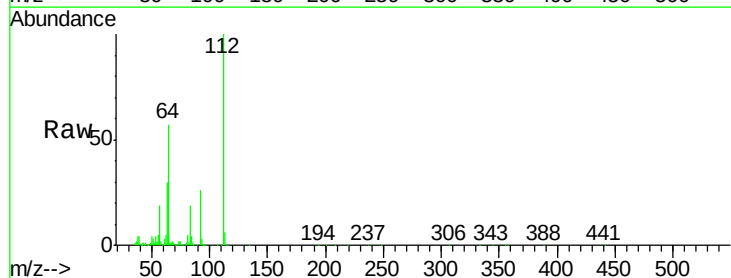
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 147.2 | 126.6 | 189.8 |
| 115     | 60.0  | 53.0  | 79.4  |

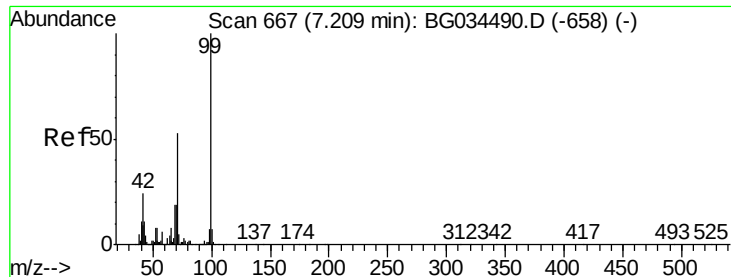


#5

2-Fluorophenol  
Concen: 39.162 ng  
RT: 5.61 min Scan# 395  
Delta R.T. -0.01 min  
Lab File: BG034802.D  
Acq: 30 May 2018 11:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.0  | 56.3  | 84.5  |
| 63      | 29.6  | 30.1  | 45.1  |





#7

Phenol-d6

Concen: 20.477 ng

RT: 7.20 min Scan# 666

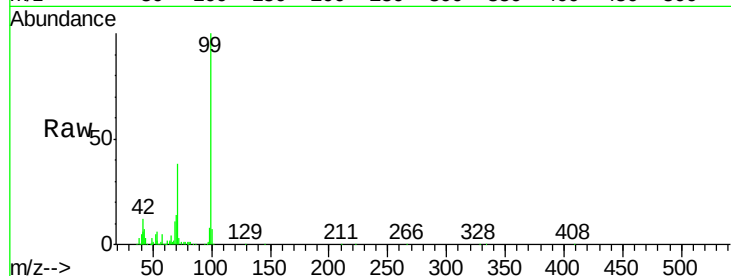
Delta R.T. -0.01 min

Lab File: BG034802.D

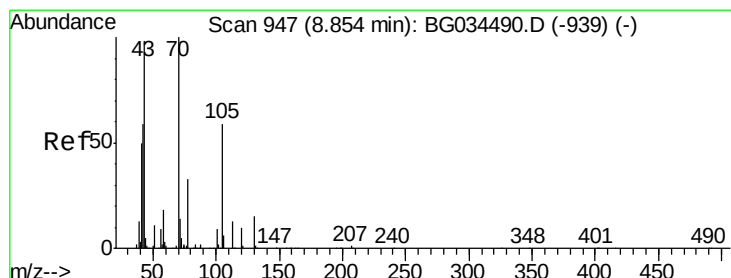
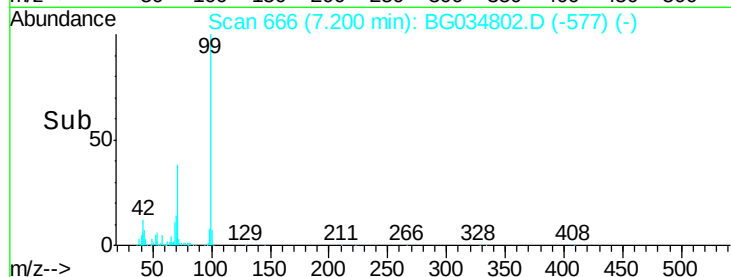
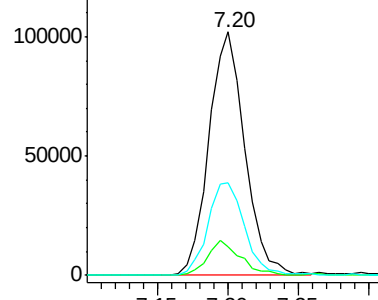
Acq: 30 May 2018 11:02

Tot Ion: 99 Resp: 180973

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 11.7  | 14.1  | 21.1# |
| 71  | 37.8  | 26.1  | 39.1  |



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 11.637 ng

RT: 9.19 min Scan# 1005

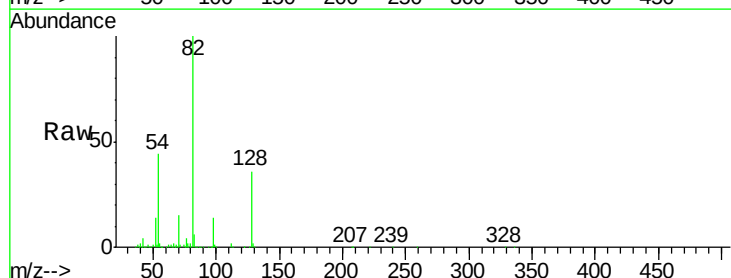
Delta R.T. 0.35 min

Lab File: BG034802.D

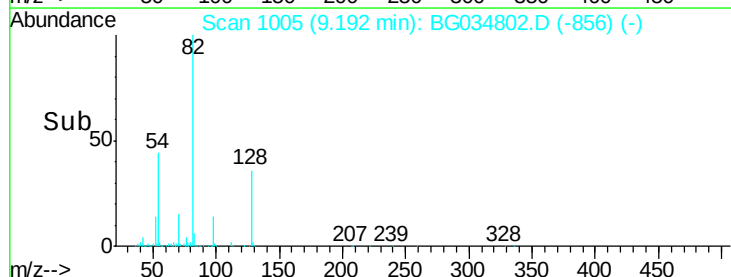
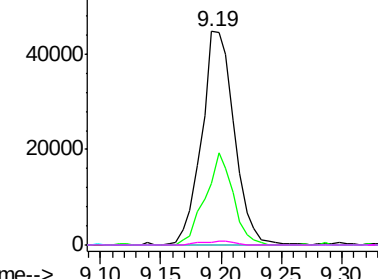
Acq: 30 May 2018 11:02

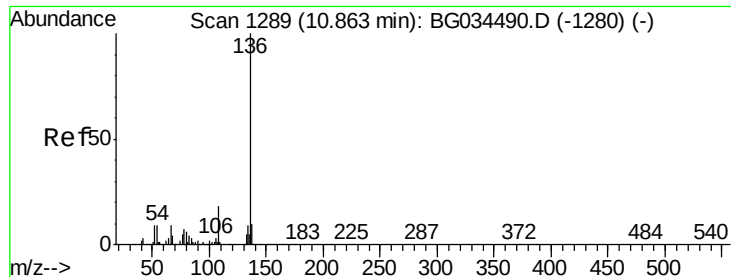
Tgt Ion: 70 Resp: 84235

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 29.0  | 49.1  | 73.7# |
| 101 | 0.0   | 8.5   | 12.7# |
| 130 | 1.1   | 13.4  | 20.0# |



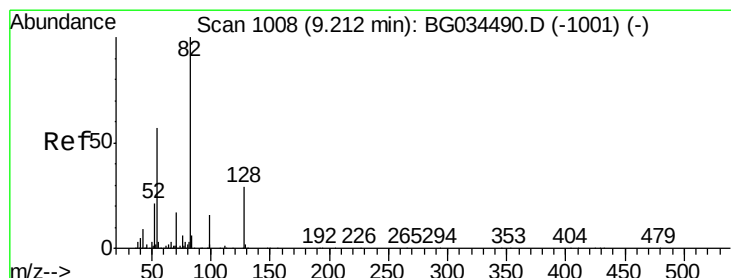
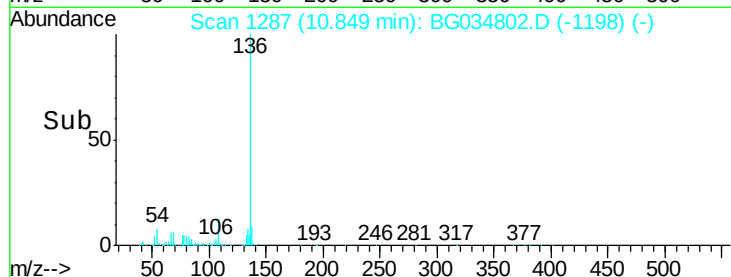
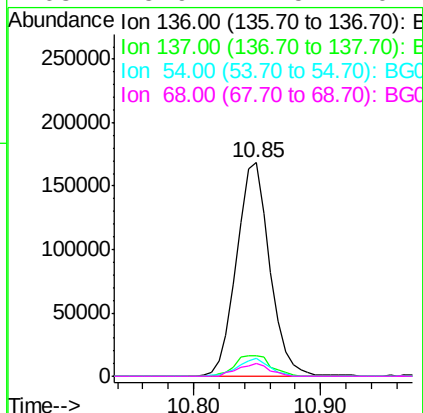
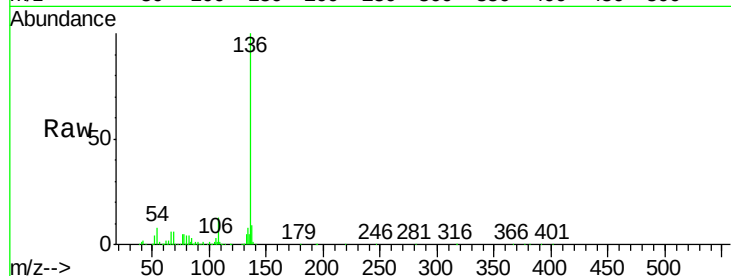
Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC





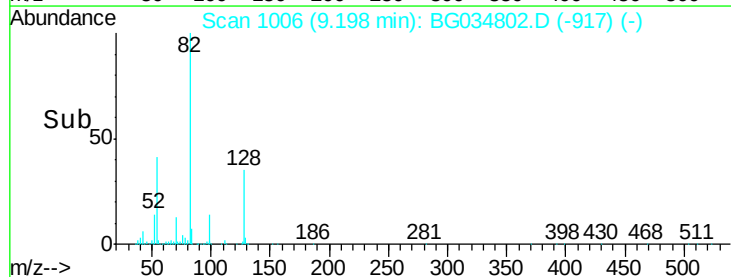
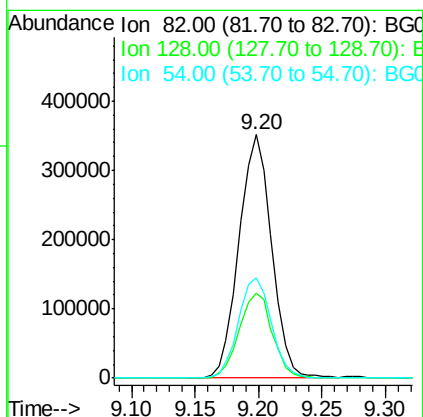
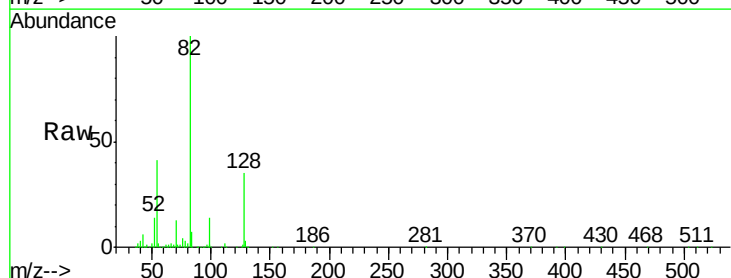
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1287  
Delta R.T. -0.01 min  
Lab File: BG034802.D  
Acq: 30 May 2018 11:02

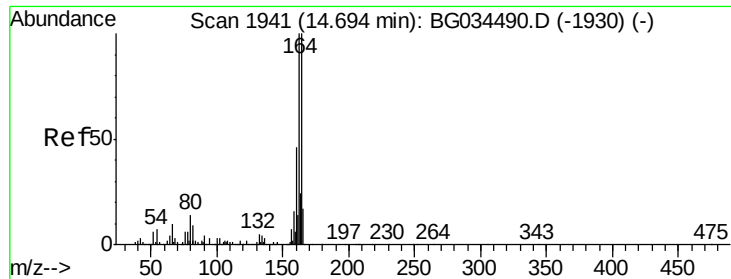
|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 306213 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 9.4     | 9.2   | 13.8   |
| 54 8.3      | 10.3  | 15.5#  |
| 68 5.9      | 4.5   | 6.7    |



#23  
Nitrobenzene-d5  
Concen: 78.521 ng  
RT: 9.20 min Scan# 1006  
Delta R.T. -0.01 min  
Lab File: BG034802.D  
Acq: 30 May 2018 11:02

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 629420 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 34.9    | 29.7  | 44.5   |
| 54  | 41.2    | 43.1  | 64.7#  |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1939

Delta R.T. -0.01 min

Lab File: BG034802.D

Acq: 30 May 2018 11:02

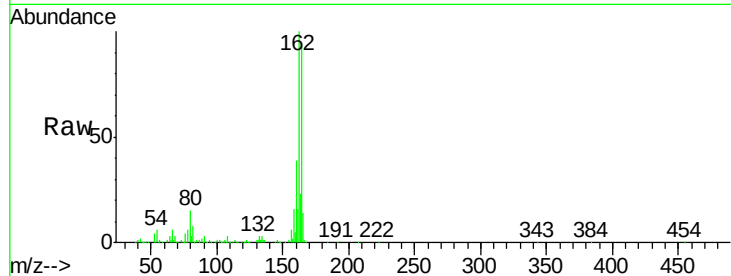
Tot Ion:164 Resp: 213699

Ion Ratio Lower Upper

164 100

162 106.5 78.8 118.2

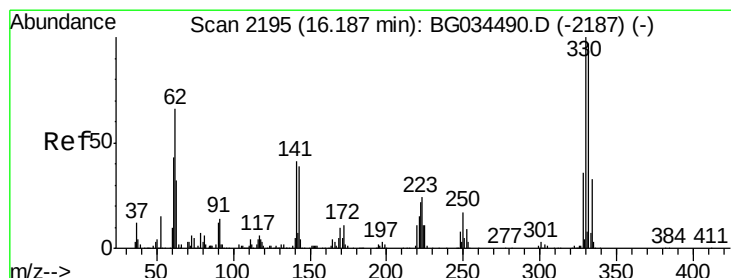
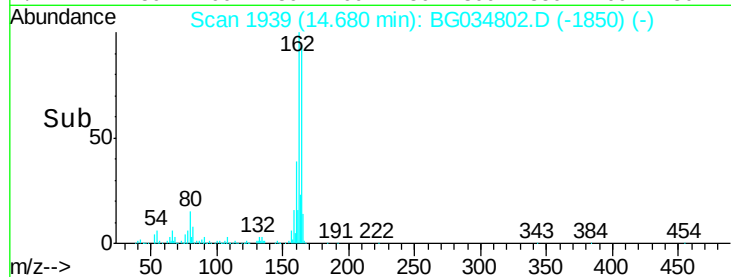
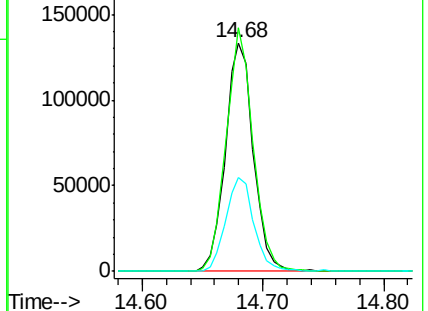
160 41.0 35.4 53.0



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: 87.811 ng

RT: 16.17 min Scan# 2193

Delta R.T. -0.01 min

Lab File: BG034802.D

Acq: 30 May 2018 11:02

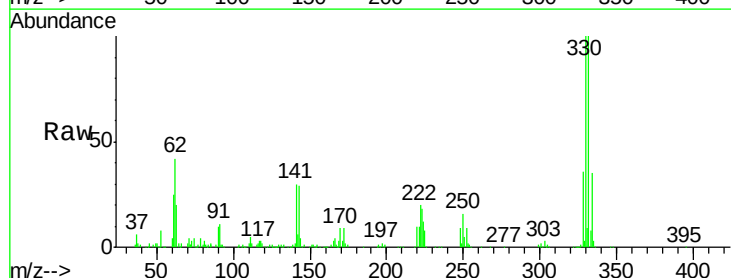
Tgt Ion:330 Resp: 323185

Ion Ratio Lower Upper

330 100

332 97.3 77.0 115.6

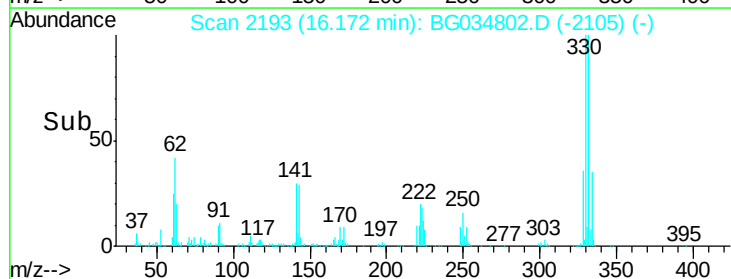
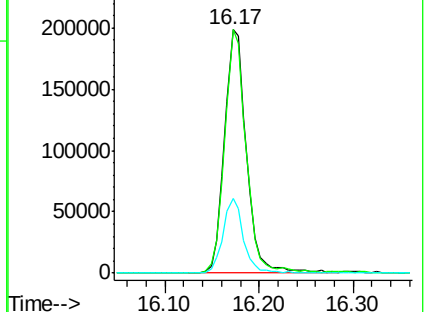
141 28.5 25.2 37.8

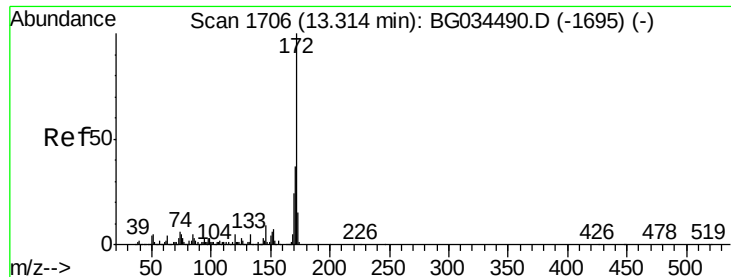


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

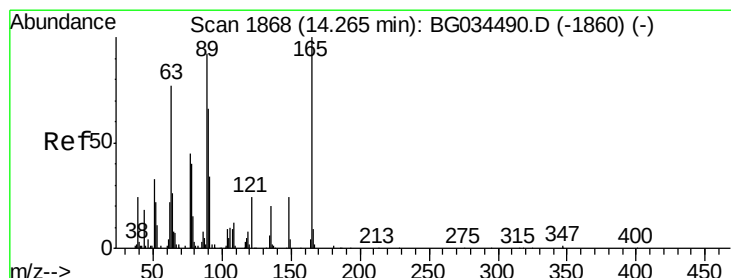
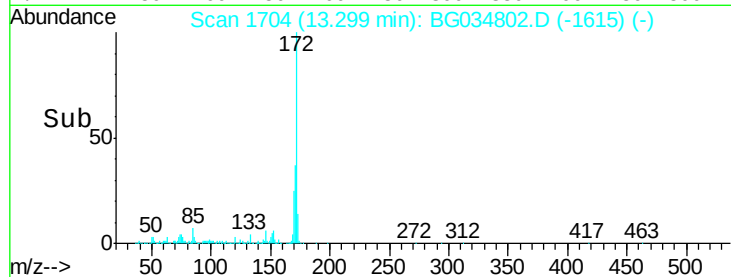
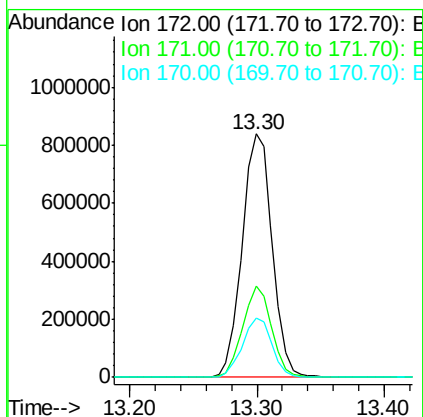
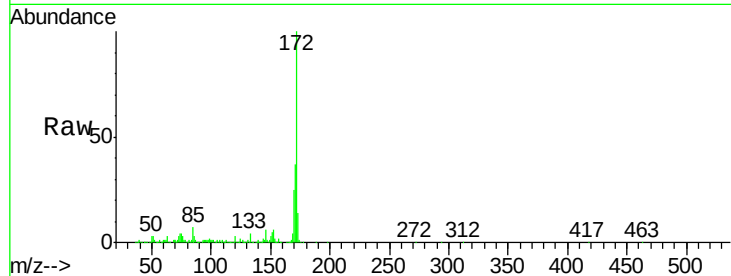




#44  
 2-Fluorobiphenyl  
 Concen: 87.486 ng  
 RT: 13.30 min Scan# 1704  
 Delta R.T. -0.01 min  
 Lab File: BG034802.D  
 Acq: 30 May 2018 11:02

Tot Ion:172 Resp: 1377085  

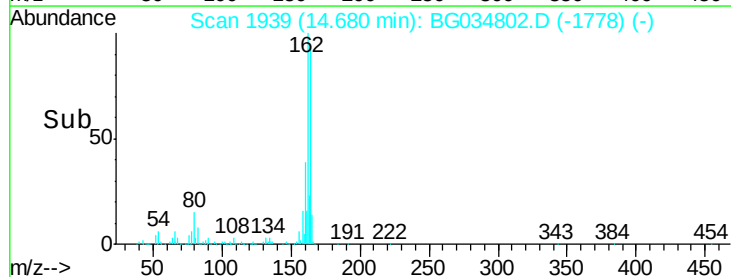
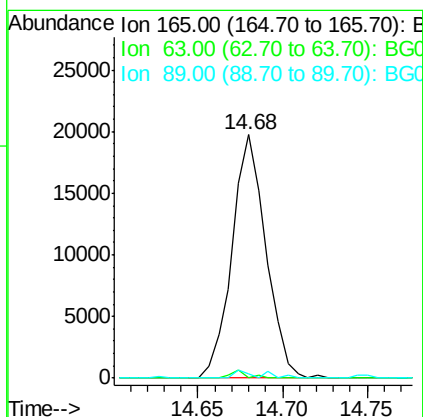
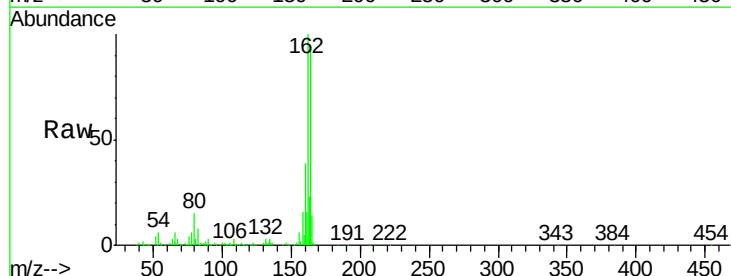
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 37.5  | 30.0  | 45.0  |
| 170 | 24.5  | 19.5  | 29.3  |

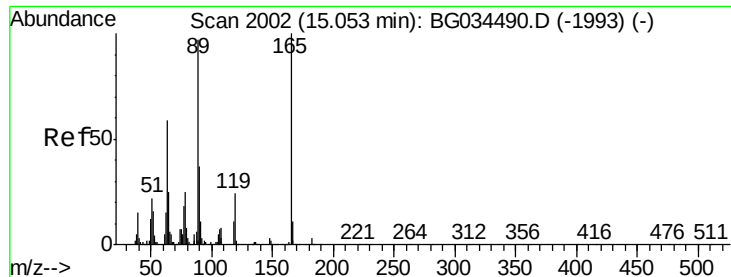


#50  
 2,6-Dinitrotoluene  
 Concen: 7.263 ng  
 RT: 14.68 min Scan# 1939  
 Delta R.T. 0.42 min  
 Lab File: BG034802.D  
 Acq: 30 May 2018 11:02

Tgt Ion:165 Resp: 27472  

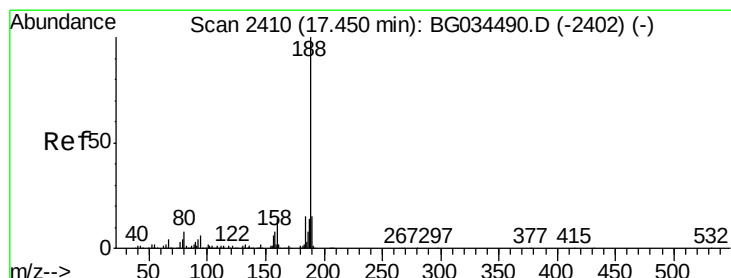
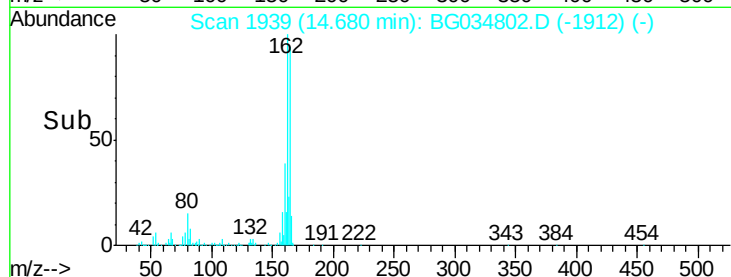
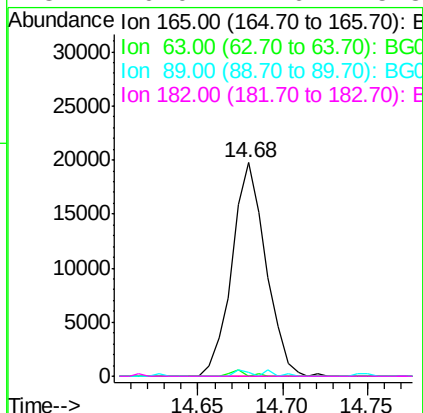
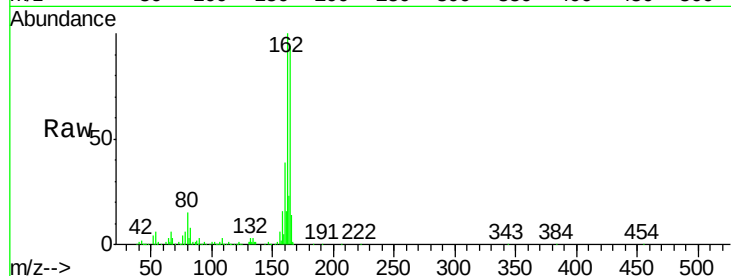
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 0.0   | 52.7  | 79.1# |
| 89  | 1.9   | 49.2  | 73.8# |





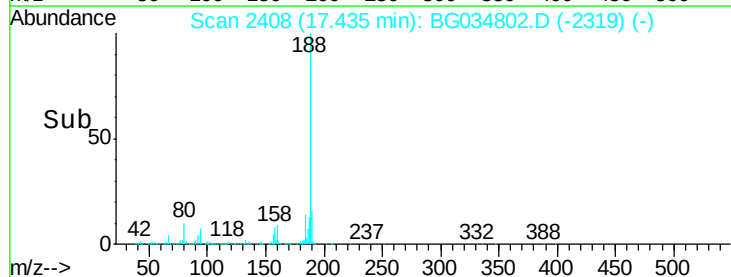
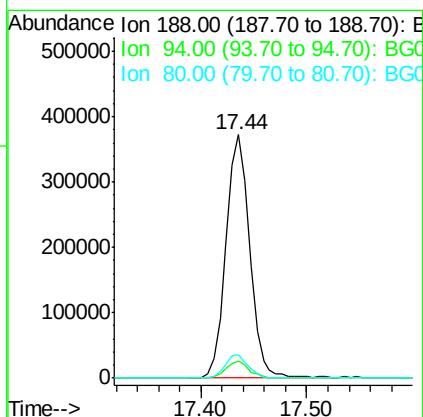
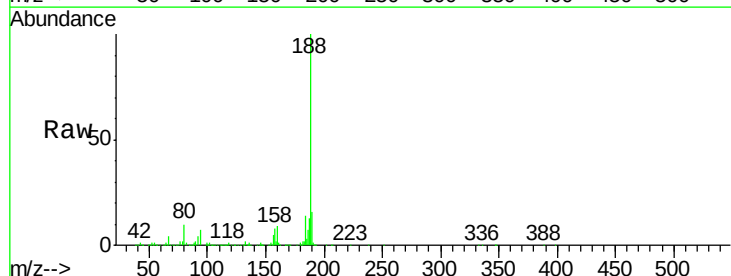
#56  
 2,4-Dinitrotoluene  
 Concen: 4.893 ng  
 RT: 14.68 min Scan# 1939  
 Delta R.T. -0.37 min  
 Lab File: BG034802.D  
 Acq: 30 May 2018 11:02

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 42.0  | 63.0#  |
| 89      | 1.9   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |

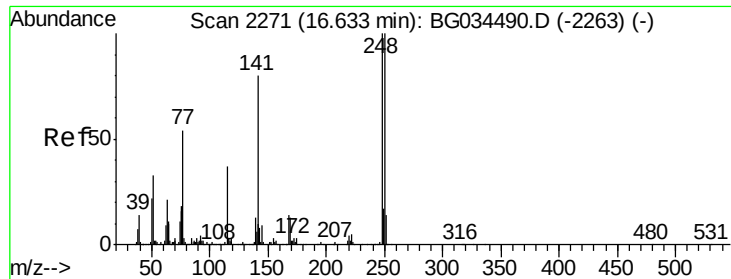


#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.44 min Scan# 2408  
 Delta R.T. -0.01 min  
 Lab File: BG034802.D  
 Acq: 30 May 2018 11:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.1   | 6.9   | 10.3  |
| 80      | 9.6   | 7.7   | 11.5  |

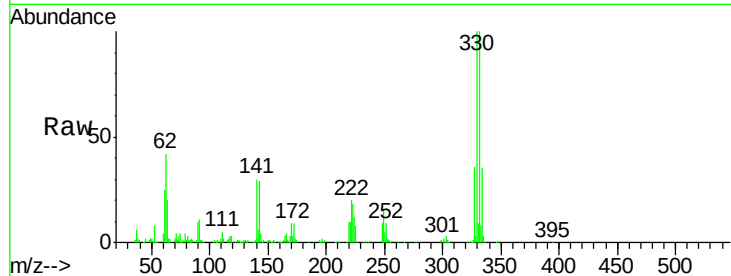




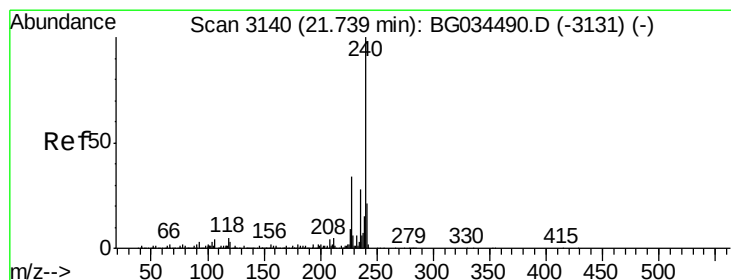
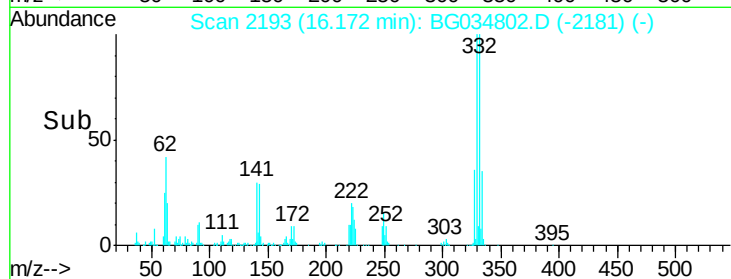
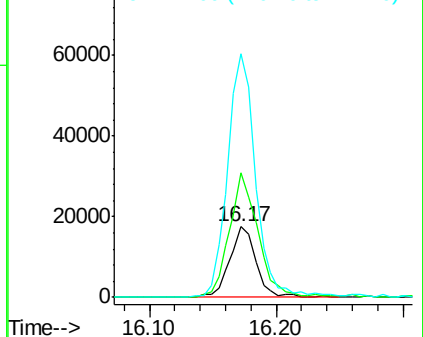


#66  
4-Bromophenyl-phenylether  
Concen: 3.309 ng  
RT: 16.17 min Scan# 2193  
Delta R.T. -0.46 min  
Lab File: BG034802.D  
Acq: 30 May 2018 11:02

Tot Ion:248 Resp: 25161  
Ion Ratio Lower Upper  
248 100  
250 176.1 77.1 115.7#  
141 344.2 50.8 76.2#

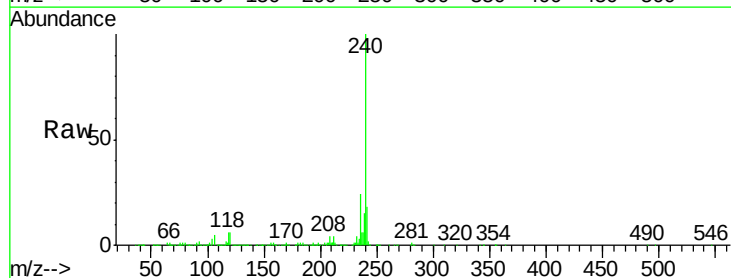


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

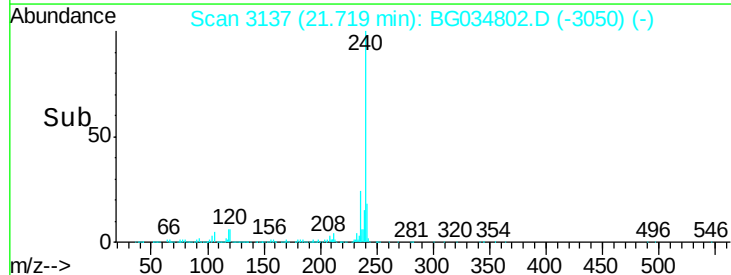
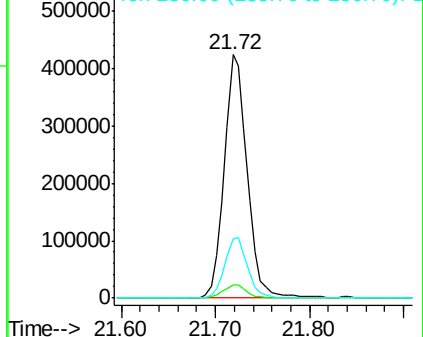


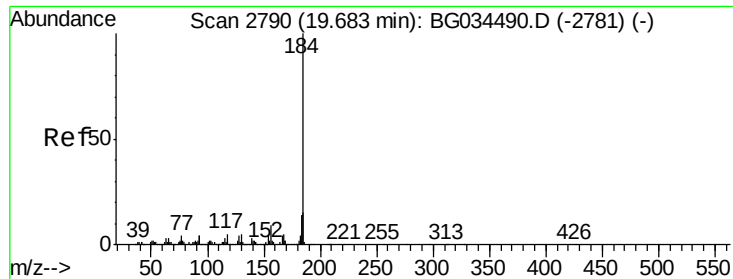
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.72 min Scan# 3137  
Delta R.T. -0.02 min  
Lab File: BG034802.D  
Acq: 30 May 2018 11:02

Tgt Ion:240 Resp: 718776  
Ion Ratio Lower Upper  
240 100  
120 5.6 6.8 10.2#  
236 24.2 20.9 31.3



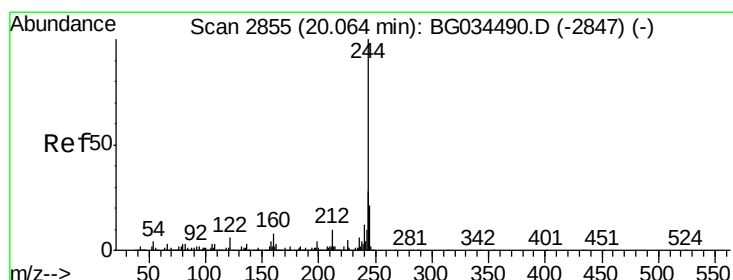
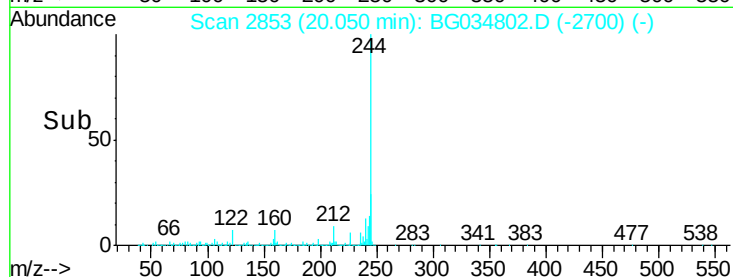
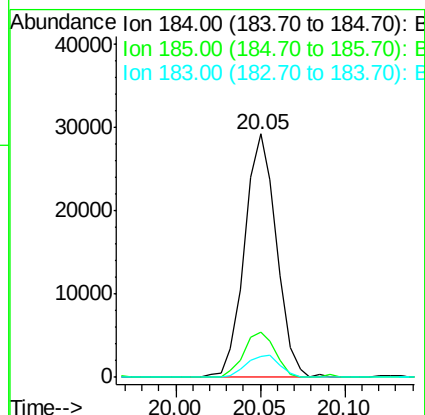
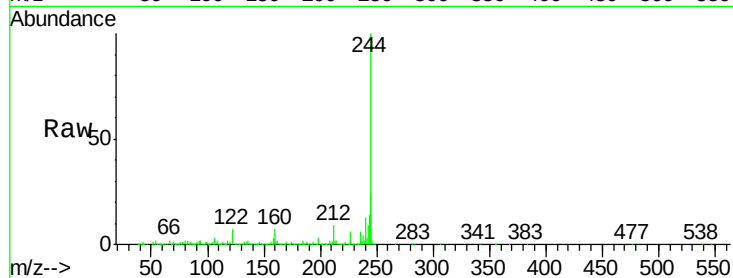
Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





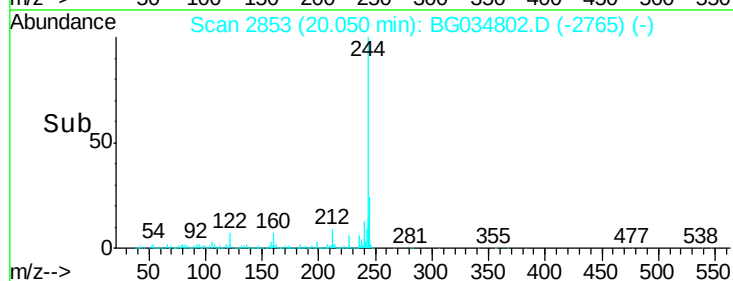
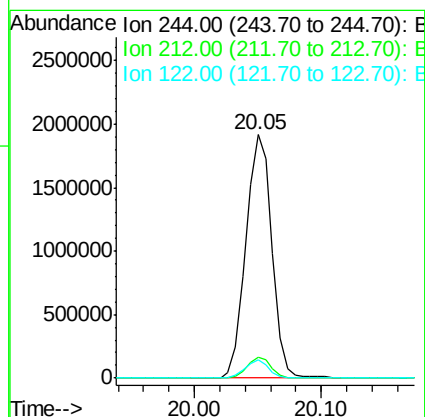
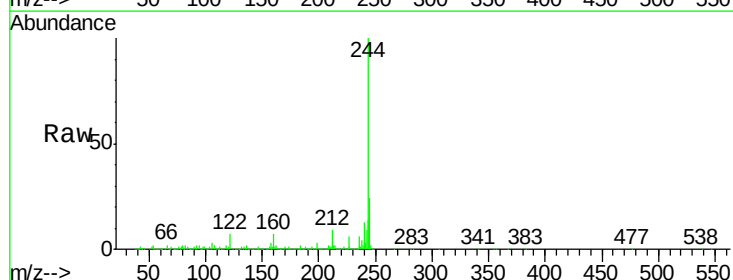
#76  
Benzidine  
Concen: 5.224 ng  
RT: 20.05 min Scan# 2853  
Delta R.T. 0.37 min  
Lab File: BG034802.D  
Acq: 30 May 2018 11:02

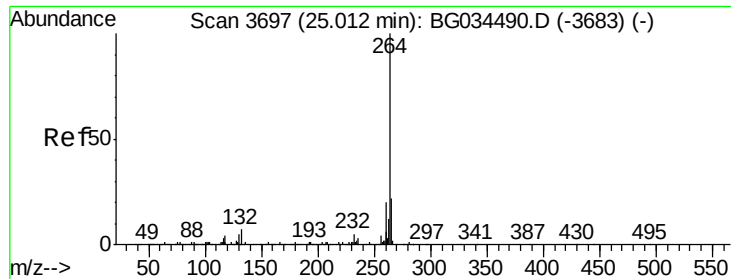
Tot Ion:184 Resp: 38315  
Ion Ratio Lower Upper  
184 100  
185 18.4 11.1 16.7#  
183 8.4 10.6 16.0#



#78  
Terphenyl-d14  
Concen: 83.000 ng  
RT: 20.05 min Scan# 2853  
Delta R.T. -0.01 min  
Lab File: BG034802.D  
Acq: 30 May 2018 11:02

Tgt Ion:244 Resp: 2720467  
Ion Ratio Lower Upper  
244 100  
212 8.7 5.8 8.8  
122 7.5 7.0 10.4





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.99 min Scan# 3693  
Delta R.T. -0.02 min  
Lab File: BG034802.D  
Acq: 30 May 2018 11:02

|     |         |       |        |
|-----|---------|-------|--------|
| Tot | Ion:264 | Resp: | 730533 |
| Ion | Ratio   | Lower | Upper  |
| 264 | 100     |       |        |
| 260 | 20.9    | 17.4  | 26.0   |
| 265 | 21.6    | 17.7  | 26.5   |

