

Data Path : Z:\HPCHEM1\BNA G\DATA\BG040418\  
 Data File : BG033585.D  
 Acq On : 5 Apr 2018 8:11  
 Operator : SJ/JU  
 Sample : J2199-02  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

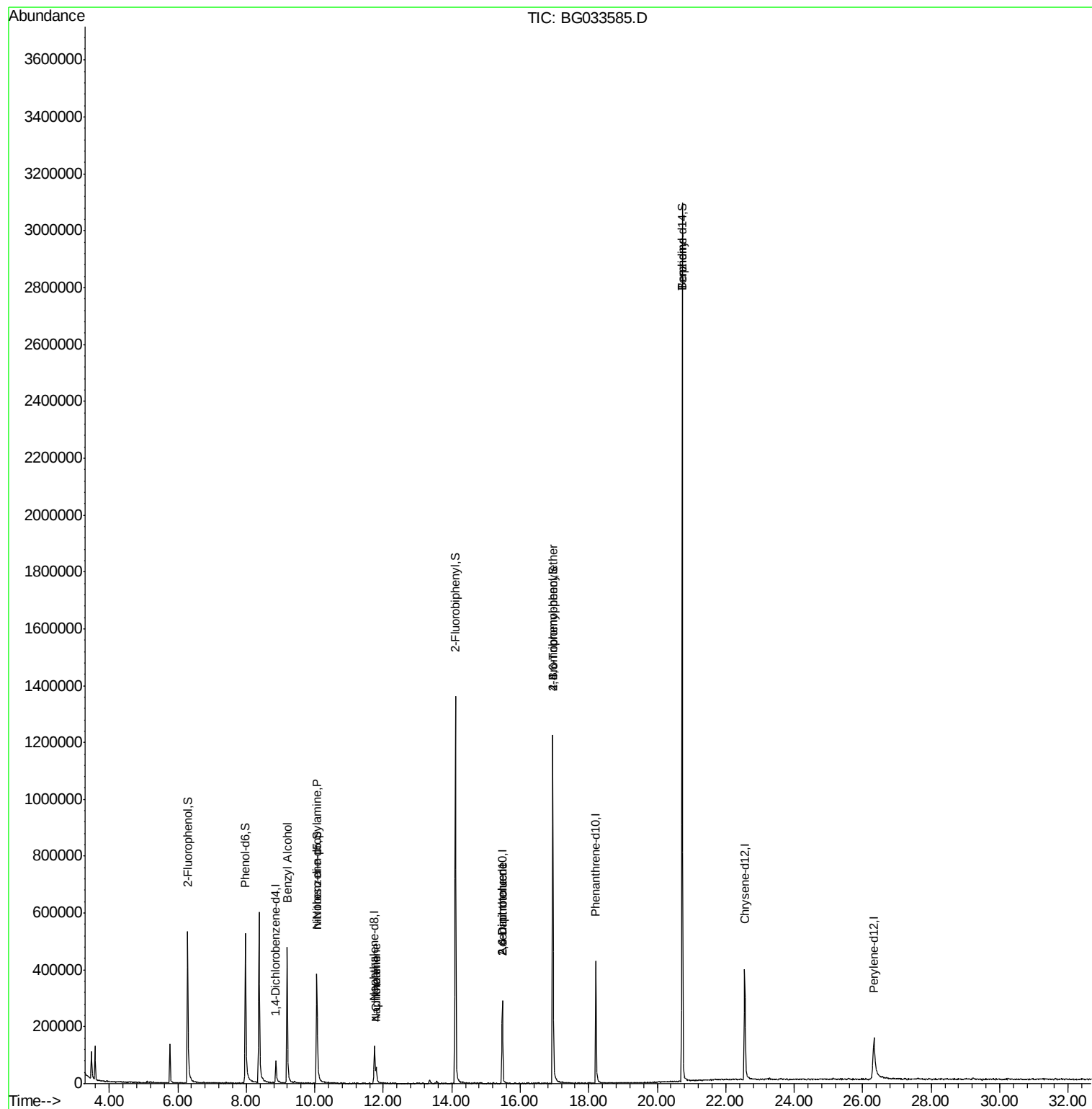
Quant Time: Apr 05 11:10:54 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 04 18:35:46 2018  
 Response via : Initial Calibration

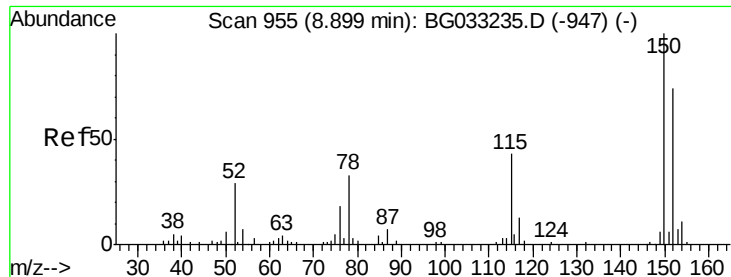
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.87  | 152  | 30495    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.74 | 136  | 139670   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.47 | 164  | 111451   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 18.21 | 188  | 304237   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.55 | 240  | 319105   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.33 | 264  | 264813   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.29  | 112  | 263308   | 161.91 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.97  | 99   | 392804   | 140.57 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.06 | 82   | 310613   | 102.18 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.95 | 330  | 249762   | 149.84 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.10 | 172  | 777223   | 100.67 | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.73 | 244  | 1608107  | 107.77 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.19  | 79   | 4668     | 2.122  | ng    | # 32     |
| 19) n-Nitroso-di-n-propylamine | 10.06 | 70   | 43207    | 21.102 | ng    | # 82     |
| 31) Naphthalene                | 11.80 | 128  | 53429    | 7.382  | ng    | # 95     |
| 33) 4-Chloroaniline            | 11.79 | 127  | 6688     | 2.062  | ng    | # 41     |
| 50) 2,6-Dinitrotoluene         | 15.47 | 165  | 14137    | 7.128  | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 15.47 | 165  | 14137    | 4.841  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.95 | 248  | 19522    | 5.464  | ng    | # 1      |
| 76) Benzidine                  | 20.73 | 184  | 28236    | 3.263  | ng    | # 93     |

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

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ALS Vial : 30 Sample Multiplier: 1

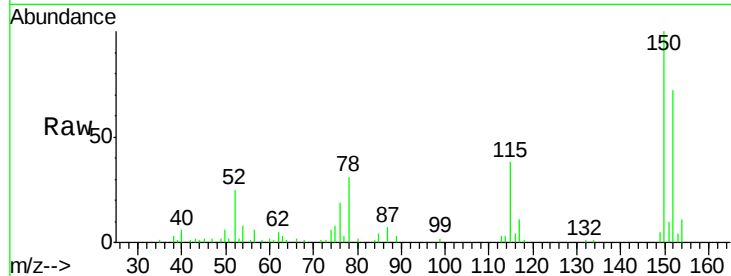
Quant Time: Apr 05 11:10:54 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 04 18:35:46 2018  
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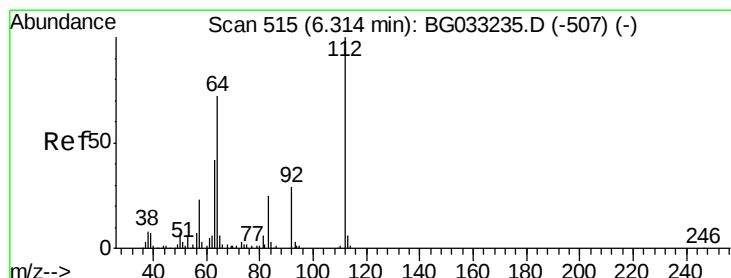
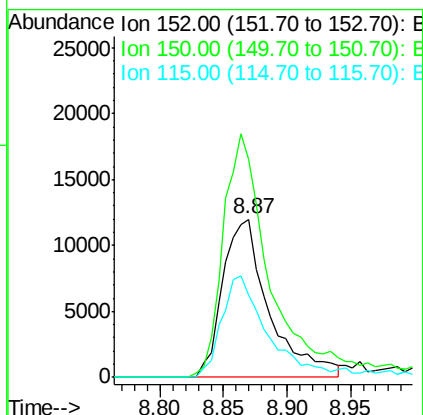
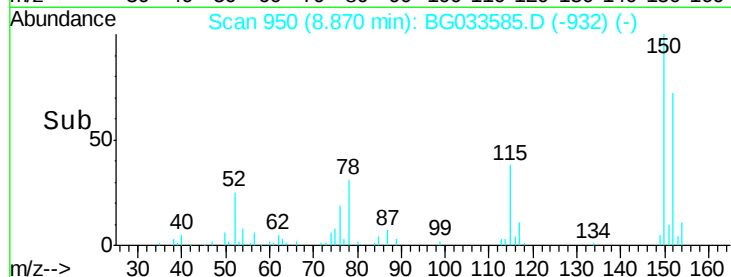


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.87 min Scan# 950  
 Delta R.T. 0.00 min  
 Lab File: BG033585.D  
 Acq: 5 Apr 2018 8:11

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 138.1 | 126.6 | 189.8 |
| 115     | 52.4  | 53.0  | 79.4  |

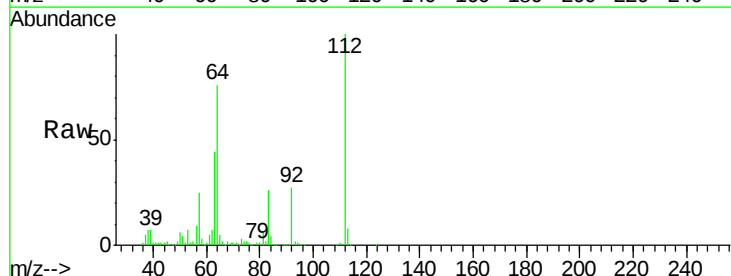


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

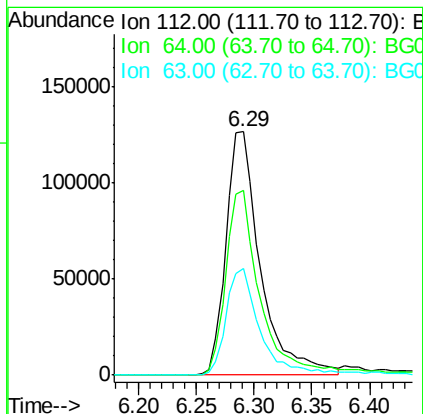
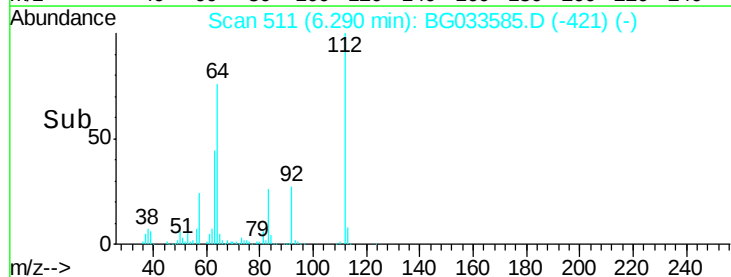


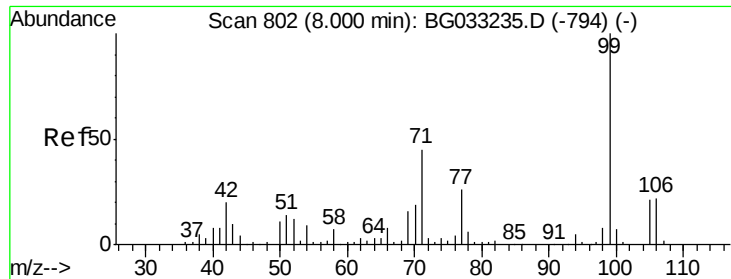
#5  
 2-Fluorophenol  
 Concen: 161.907 ng  
 RT: 6.29 min Scan# 511  
 Delta R.T. -0.00 min  
 Lab File: BG033585.D  
 Acq: 5 Apr 2018 8:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 75.7  | 56.3  | 84.5  |
| 63      | 43.6  | 30.1  | 45.1  |



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BG  
 Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 140.573 ng

RT: 7.97 min Scan# 797

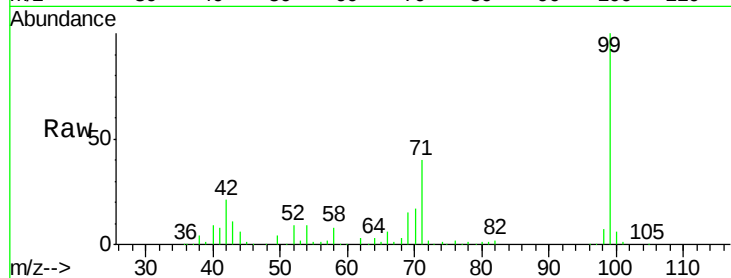
Delta R.T. -0.01 min

Lab File: BG033585.D

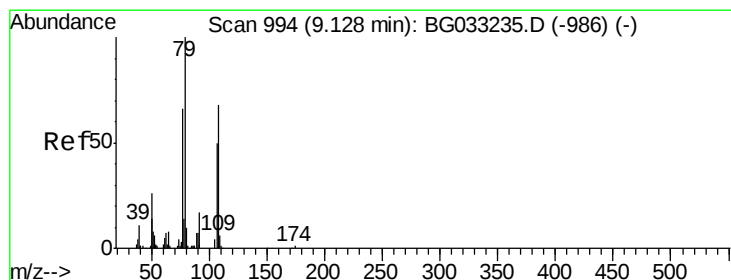
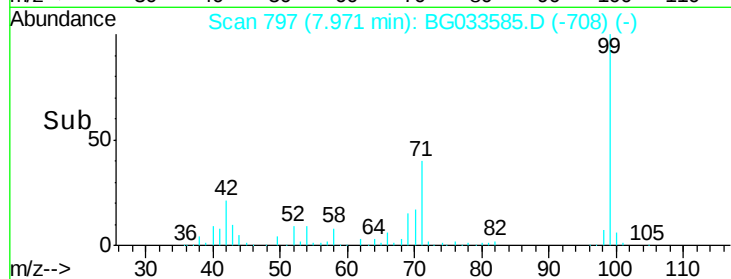
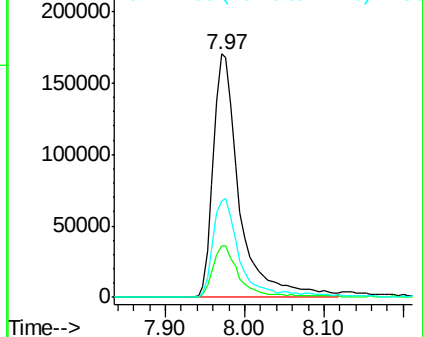
Acq: 5 Apr 2018 8:11

Tot Ion: 99 Resp: 392804

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.0  | 14.1  | 21.1  |
| 71  | 39.6  | 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



#15

Benzyl Alcohol

Concen: 2.122 ng

RT: 9.19 min Scan# 1004

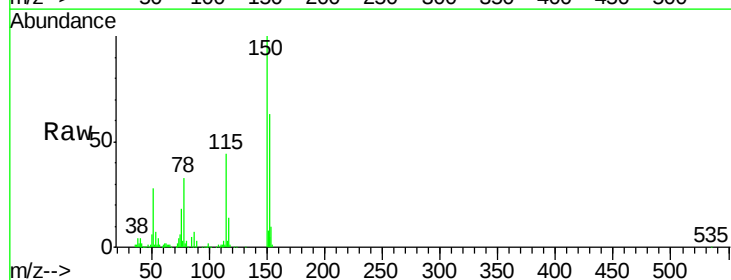
Delta R.T. 0.09 min

Lab File: BG033585.D

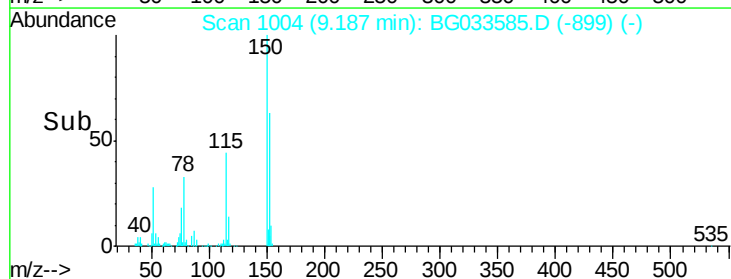
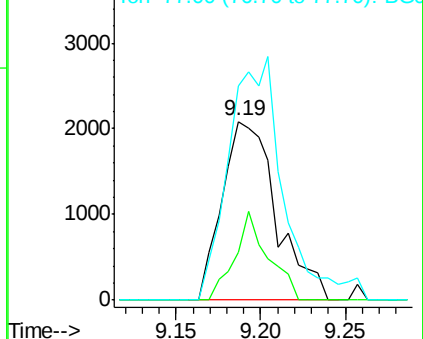
Acq: 5 Apr 2018 8:11

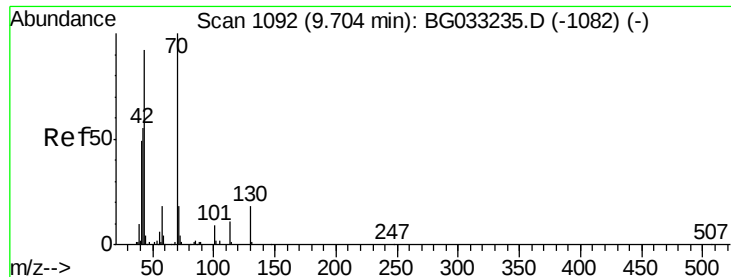
Tgt Ion: 79 Resp: 4668

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 79  | 100   |       |       |
| 108 | 26.5  | 57.2  | 85.8# |
| 77  | 120.0 | 46.1  | 69.1# |



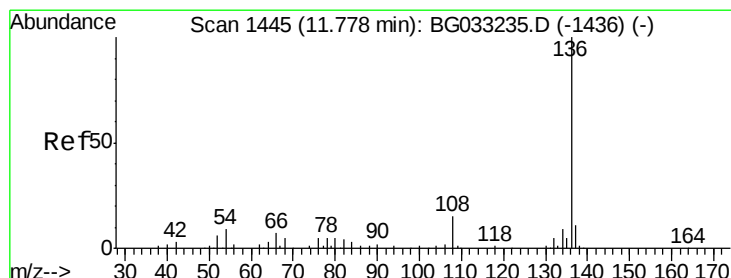
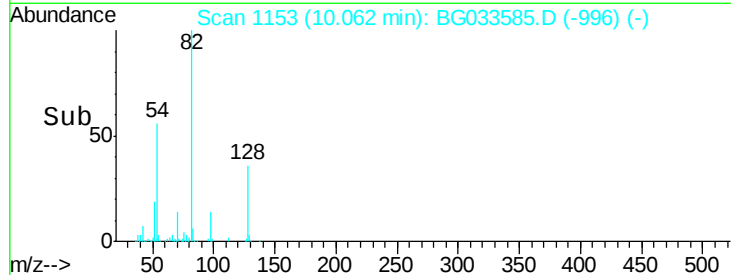
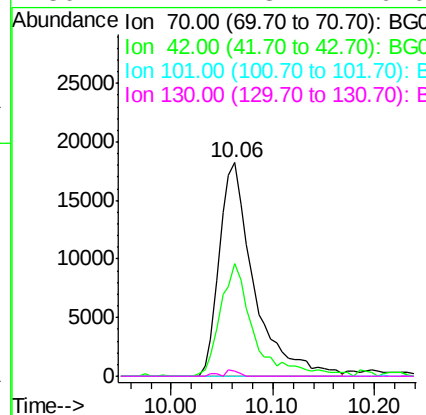
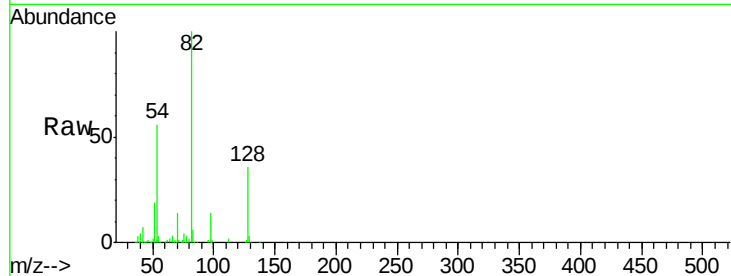
Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC





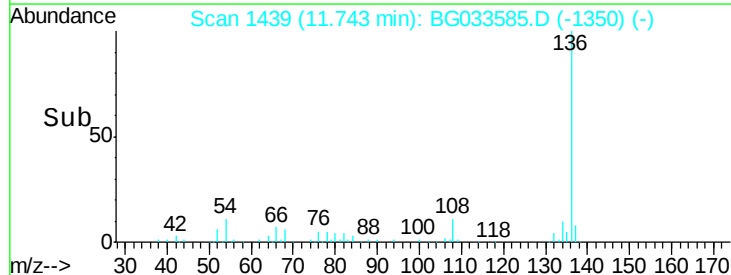
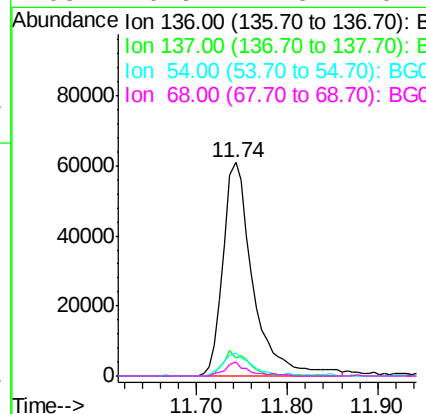
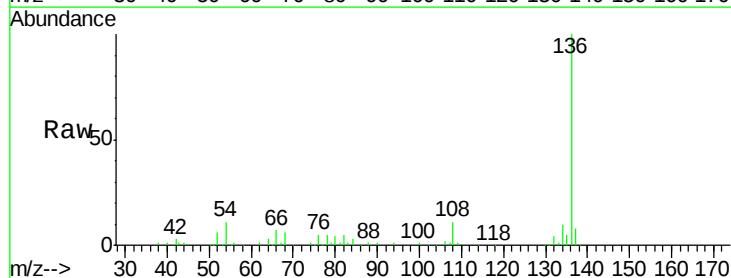
#19  
n-Nitroso-di-n-propylamine  
Concen: 21.102 ng  
RT: 10.06 min Scan# 1153  
Delta R.T. 0.39 min  
Lab File: BG033585.D  
Acq: 5 Apr 2018 8:11

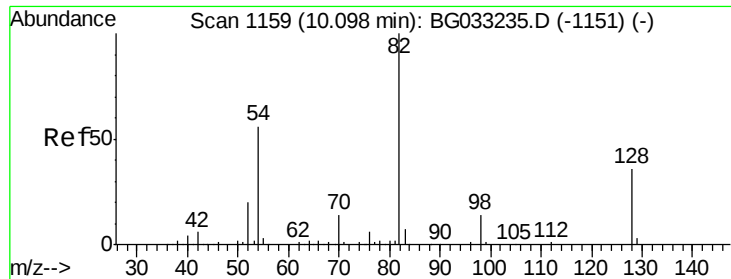
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 70    | Resp: | 43207 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 52.6  | 49.1  | 73.7  |
| 101      | 0.0   | 8.5   | 12.7# |
| 130      | 2.1   | 13.4  | 20.0# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.74 min Scan# 1439  
Delta R.T. -0.01 min  
Lab File: BG033585.D  
Acq: 5 Apr 2018 8:11

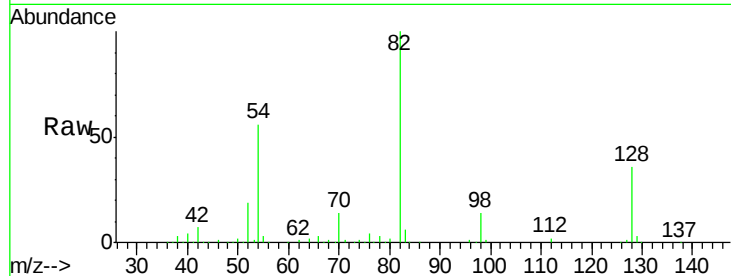
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 139670 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 8.5   | 9.2   | 13.8#  |
| 54       | 11.1  | 10.3  | 15.5   |
| 68       | 6.5   | 4.5   | 6.7    |



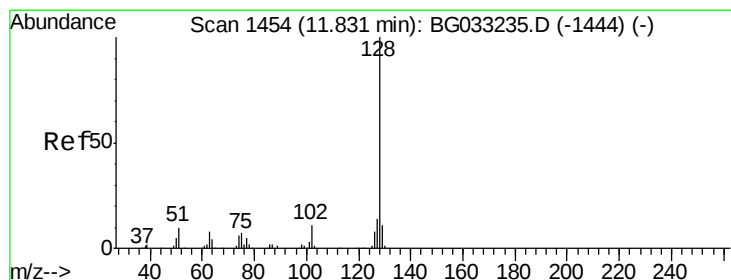
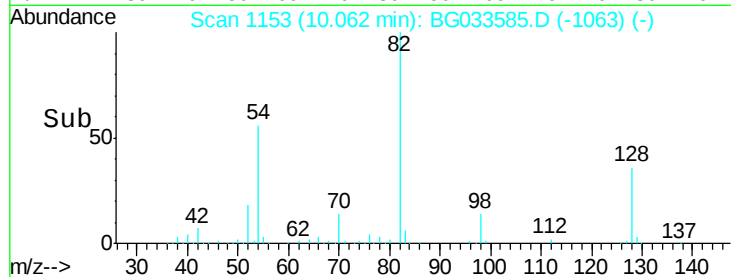
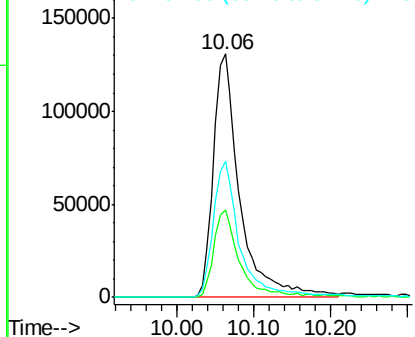


#23  
 Nitrobenzene-d5  
 Concen: 102.175 ng  
 RT: 10.06 min Scan# 1153  
 Delta R.T. -0.00 min  
 Lab File: BG033585.D  
 Acq: 5 Apr 2018 8:11

Tot Ion: 82 Resp: 310613  
 Ion Ratio Lower Upper  
 82 100  
 128 35.9 29.7 44.5  
 54 56.0 43.1 64.7

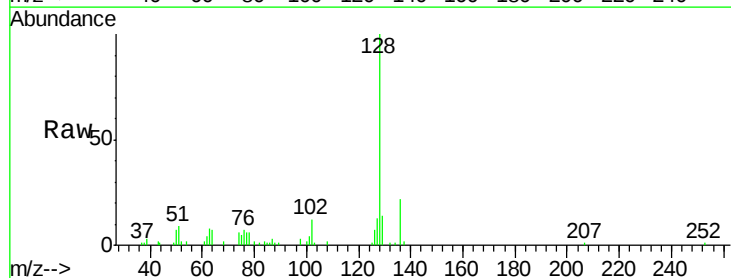


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

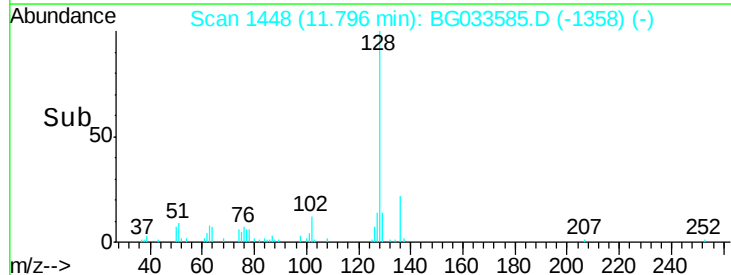
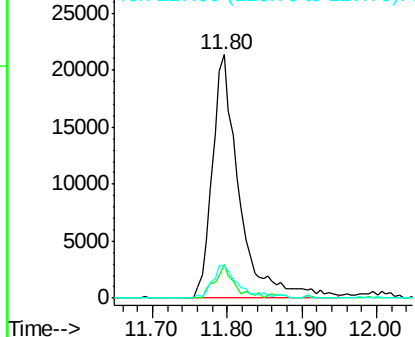


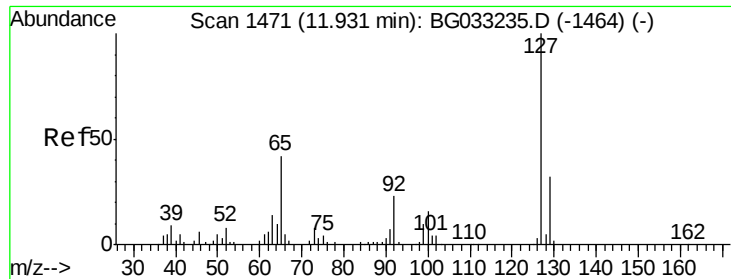
#31  
 Naphthalene  
 Concen: 7.382 ng  
 RT: 11.80 min Scan# 1448  
 Delta R.T. -0.00 min  
 Lab File: BG033585.D  
 Acq: 5 Apr 2018 8:11

Tgt Ion: 128 Resp: 53429  
 Ion Ratio Lower Upper  
 128 100  
 129 14.0 8.6 12.8#  
 127 13.5 11.6 17.4



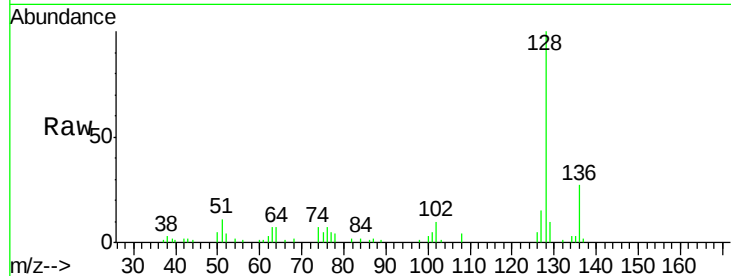
Abundance Ion 128.00 (127.70 to 128.70): BGC  
 Ion 129.00 (128.70 to 129.70): BGC  
 Ion 127.00 (126.70 to 127.70): BGC



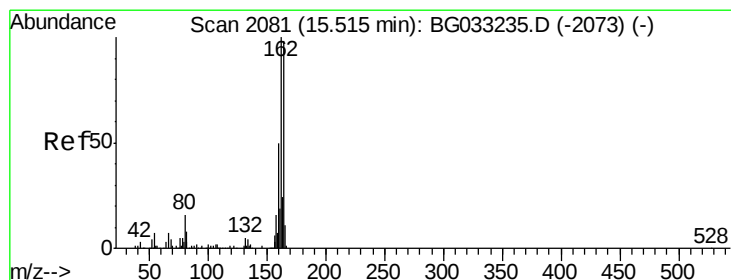
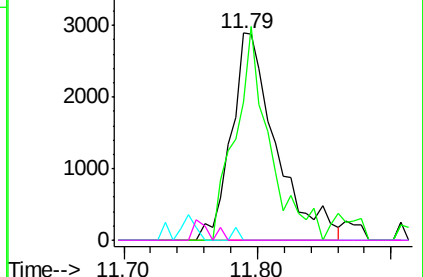
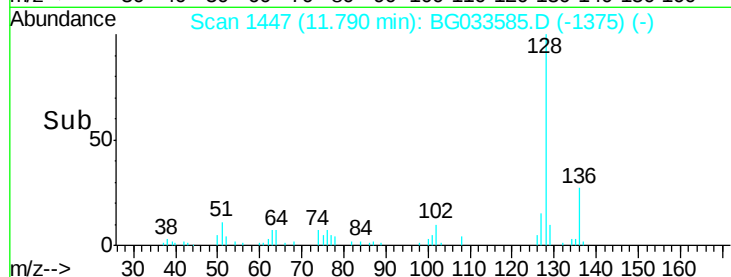


#33  
4-Chloroaniline  
Concen: 2.062 ng  
RT: 11.79 min Scan# 1447  
Delta R.T. -0.11 min  
Lab File: BG033585.D  
Acq: 5 Apr 2018 8:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 127   | Resp: | 6688  |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 66.7  | 24.0  | 36.0# |
| 65       | 0.0   | 27.0  | 40.4# |
| 92       | 0.0   | 16.6  | 25.0# |

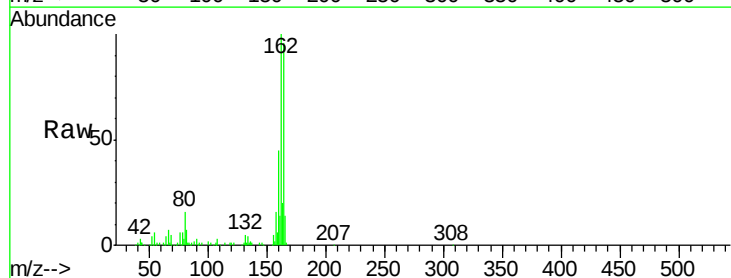


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BG  
Ion 92.00 (91.70 to 92.70): BG

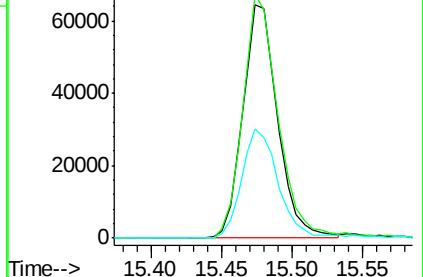
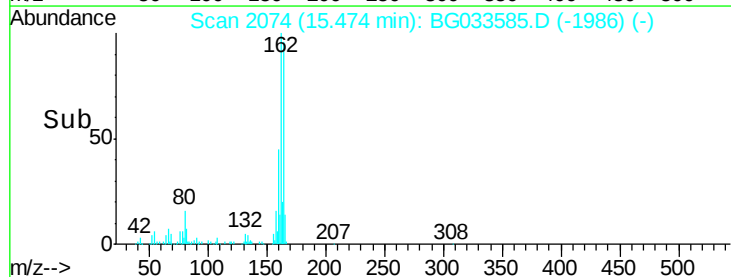


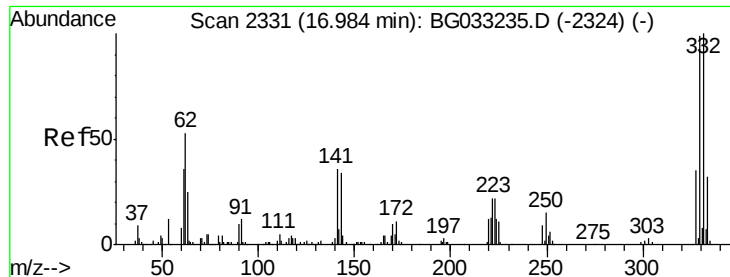
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2074  
Delta R.T. -0.01 min  
Lab File: BG033585.D  
Acq: 5 Apr 2018 8:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 111451 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 162      | 104.0 | 78.8  | 118.2  |
| 160      | 46.5  | 35.4  | 53.0   |



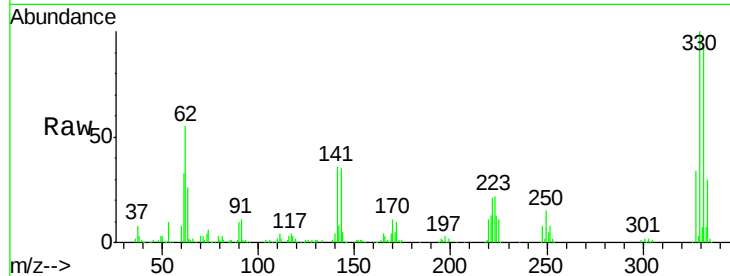
Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E



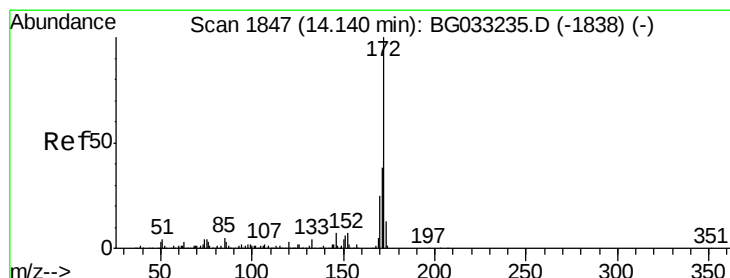
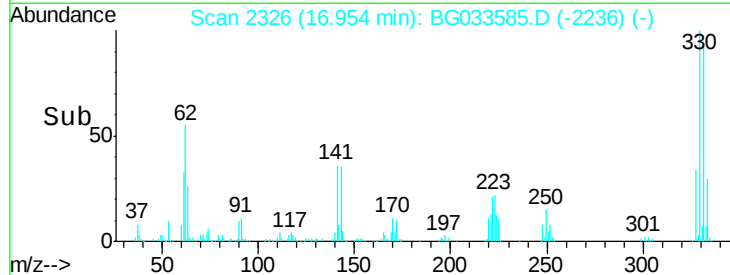
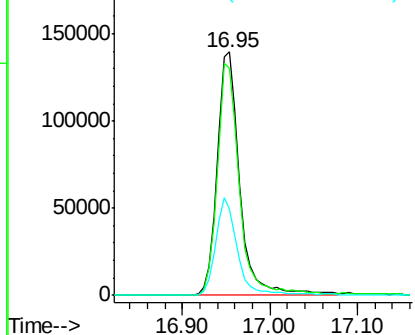


#41  
 2,4,6-Tribromophenol  
 Concen: 149.838 ng  
 RT: 16.95 min Scan# 2326  
 Delta R.T. -0.00 min  
 Lab File: BG033585.D  
 Acq: 5 Apr 2018 8:11

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 93.6  | 77.0  | 115.6 |
| 141     | 38.7  | 25.2  | 37.8  |

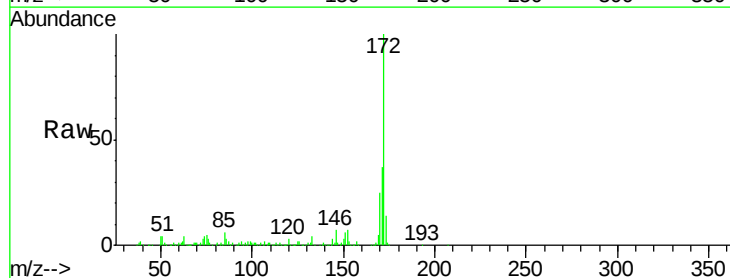


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

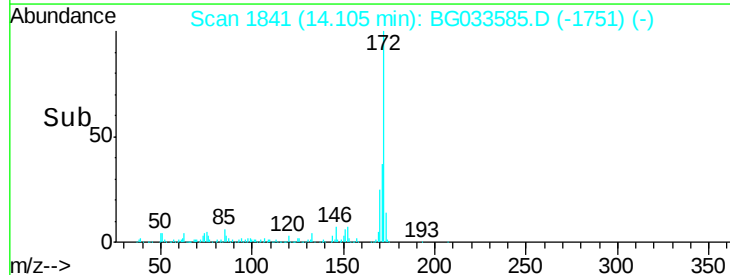
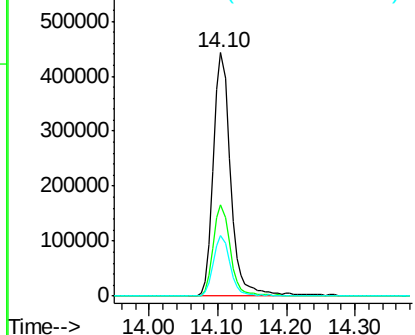


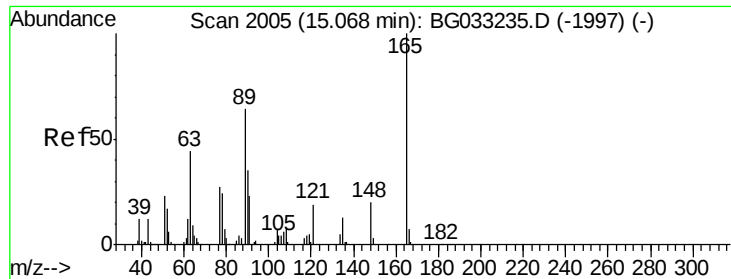
#44  
 2-Fluorobiphenyl  
 Concen: 100.674 ng  
 RT: 14.10 min Scan# 1841  
 Delta R.T. -0.00 min  
 Lab File: BG033585.D  
 Acq: 5 Apr 2018 8:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 30.0  | 45.0  |
| 170     | 24.7  | 19.5  | 29.3  |



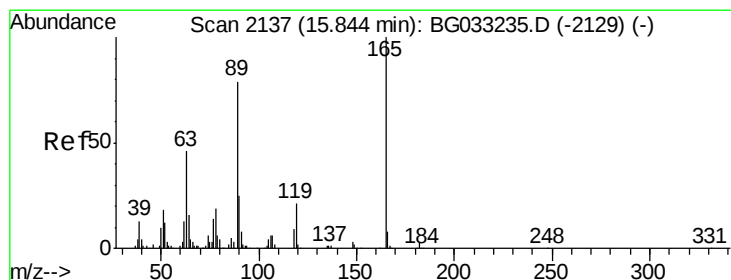
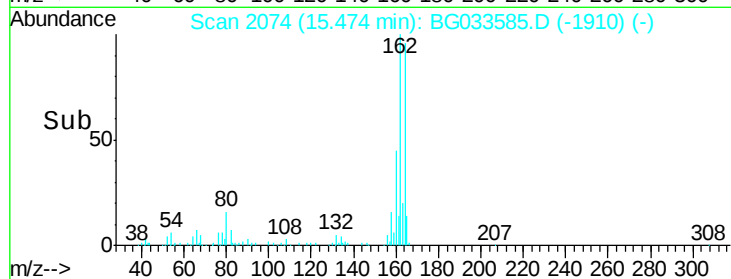
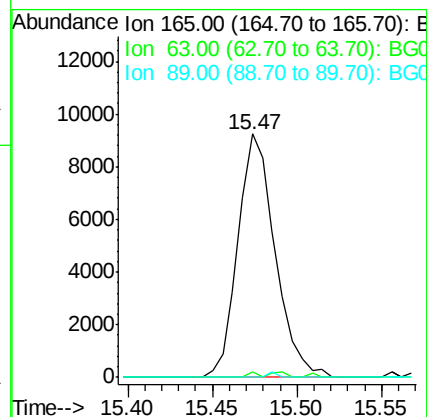
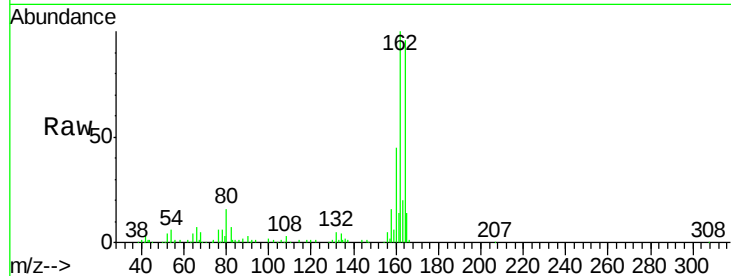
Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





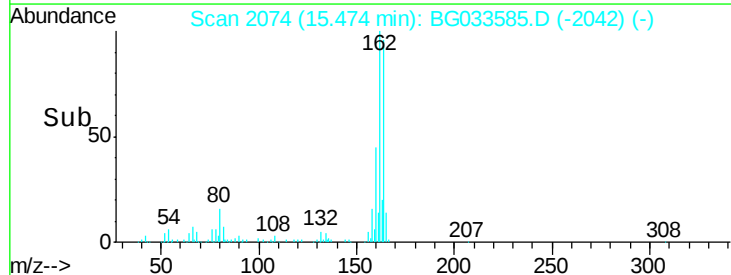
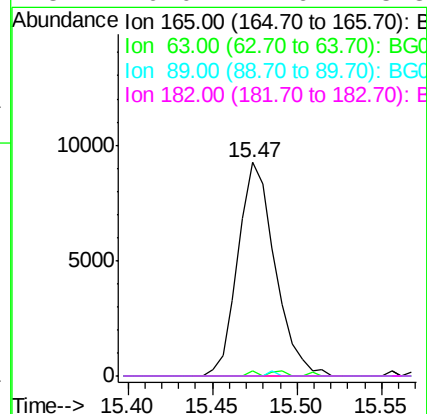
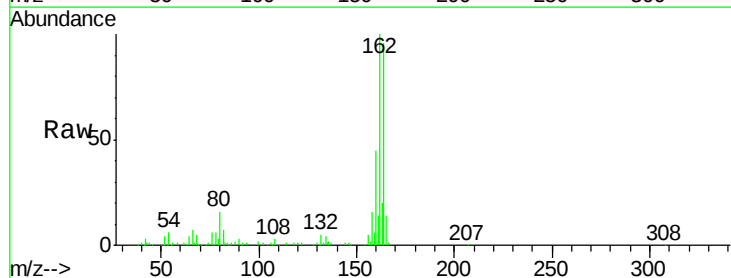
#50  
2,6-Dinitrotoluene  
Concen: 7.128 ng  
RT: 15.47 min Scan# 2074  
Delta R.T. 0.43 min  
Lab File: BG033585.D  
Acq: 5 Apr 2018 8:11

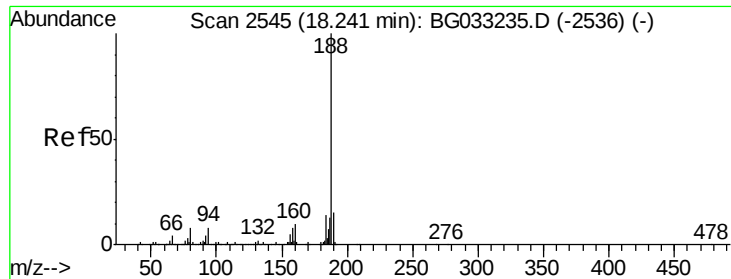
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.4   | 52.7  | 79.1# |
| 89      | 0.0   | 49.2  | 73.8# |



#56  
2,4-Dinitrotoluene  
Concen: 4.841 ng  
RT: 15.47 min Scan# 2074  
Delta R.T. -0.34 min  
Lab File: BG033585.D  
Acq: 5 Apr 2018 8:11

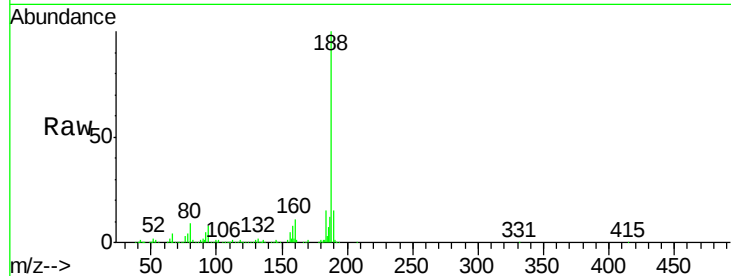
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 2.4   | 42.0  | 63.0#  |
| 89      | 0.0   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |



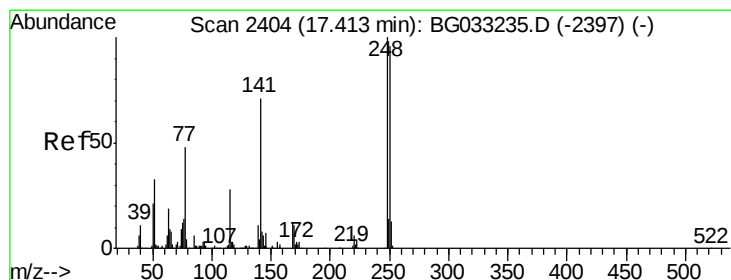
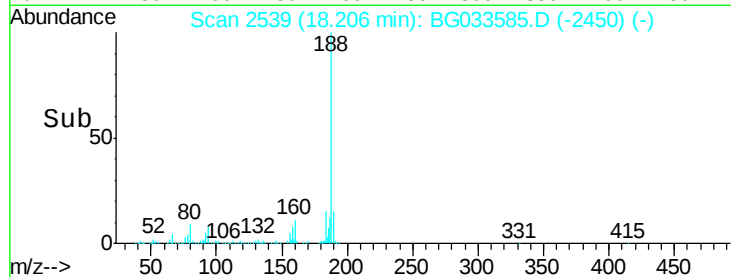
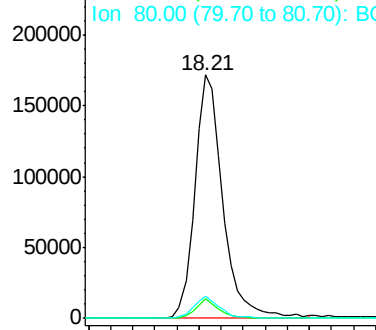


#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 18.21 min Scan# 2539  
 Delta R.T. -0.01 min  
 Lab File: BG033585.D  
 Acq: 5 Apr 2018 8:11

|             |       |          |
|-------------|-------|----------|
| Tot Ion:188 | Resp: | 304237   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 8.2   | 6.9 10.3 |
| 80          | 8.9   | 7.7 11.5 |

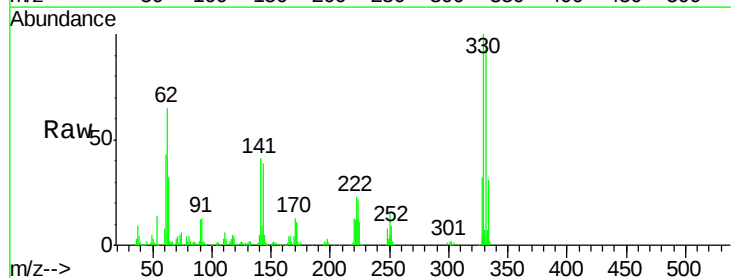


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BGC  
 Ion 80.00 (79.70 to 80.70): BGC

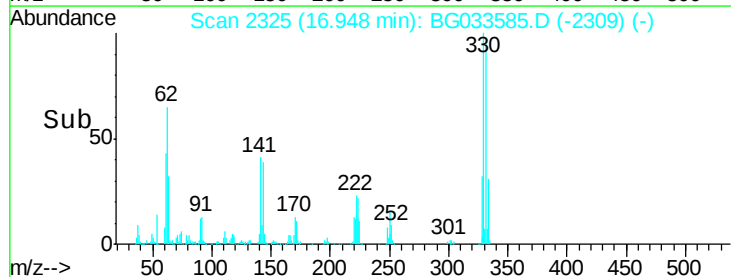
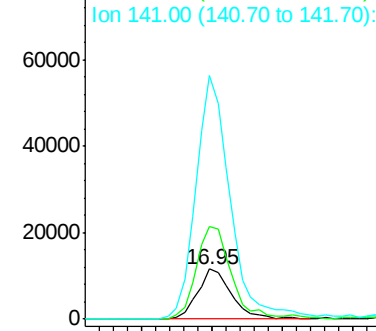


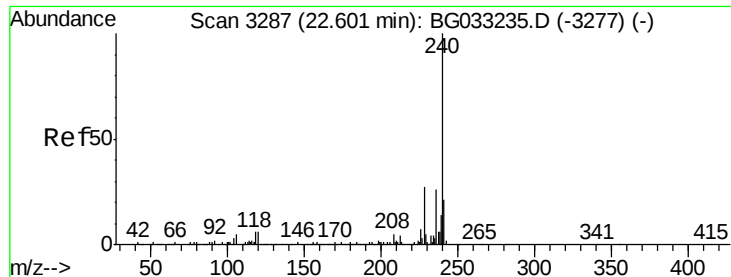
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.464 ng  
 RT: 16.95 min Scan# 2325  
 Delta R.T. -0.44 min  
 Lab File: BG033585.D  
 Acq: 5 Apr 2018 8:11

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:248 | Resp: | 19522       |
| Ion Ratio   | Lower | Upper       |
| 248         | 100   |             |
| 250         | 184.2 | 77.1 115.7# |
| 141         | 484.9 | 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: 22.55 min Scan# 3279

Delta R.T. -0.01 min

Lab File: BG033585.D

Acq: 5 Apr 2018 8:11

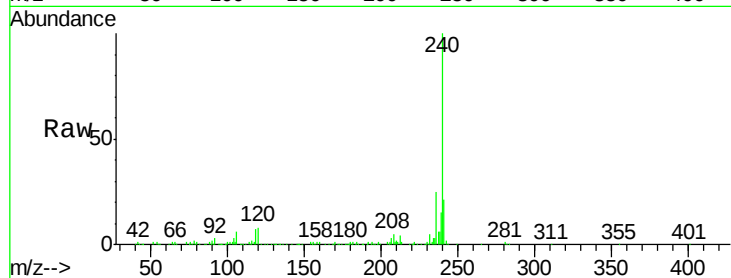
Tot Ion:240 Resp: 319105

Ion Ratio Lower Upper

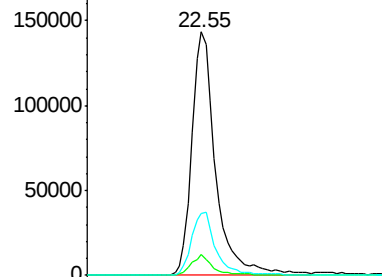
240 100

120 8.4 6.8 10.2

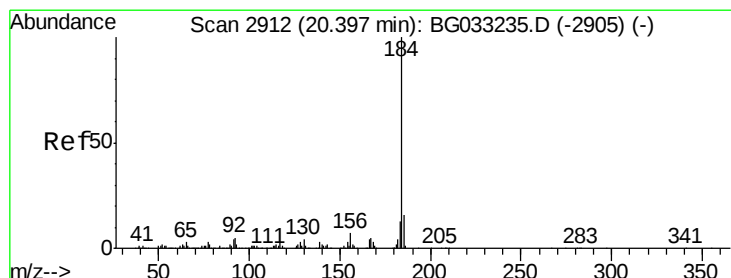
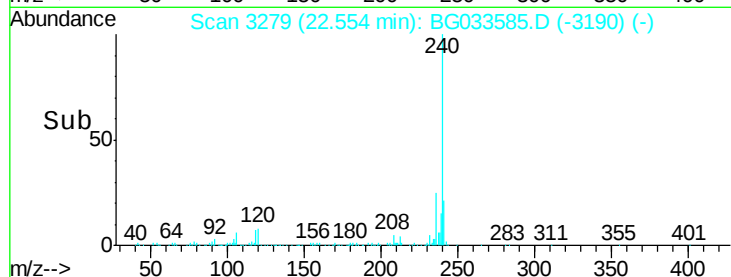
236 25.3 20.9 31.3



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



Time-->



#76

Benzidine

Concen: 3.263 ng

RT: 20.73 min Scan# 2968

Delta R.T. 0.36 min

Lab File: BG033585.D

Acq: 5 Apr 2018 8:11

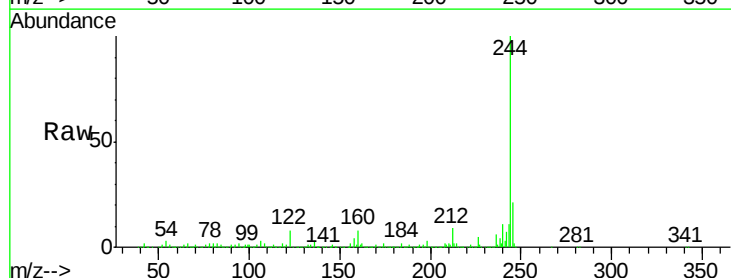
Tgt Ion:184 Resp: 28236

Ion Ratio Lower Upper

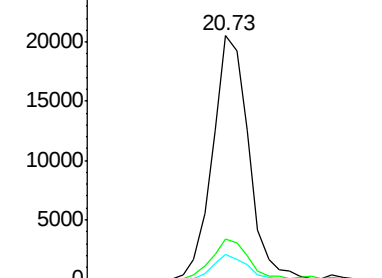
184 100

185 16.6 11.1 16.7

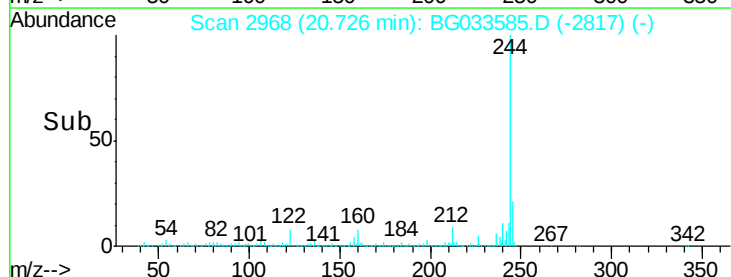
183 9.9 10.6 16.0#

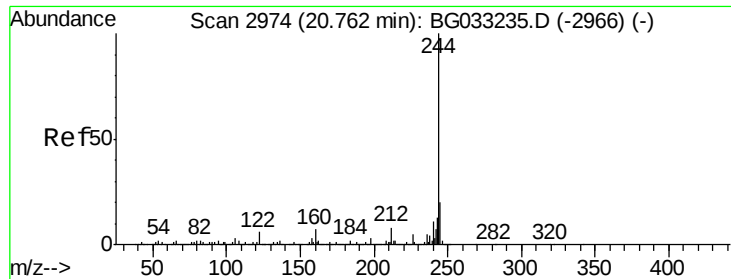


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E



Time-->

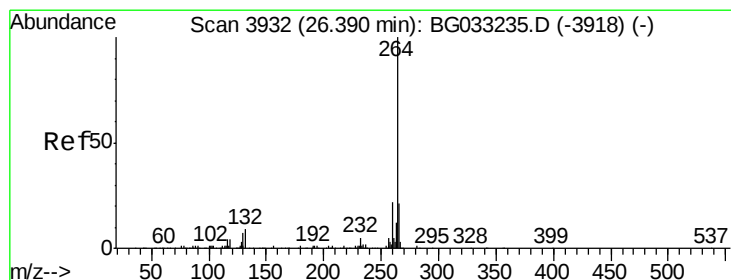
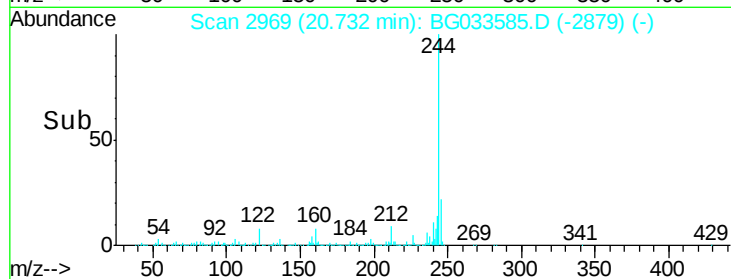
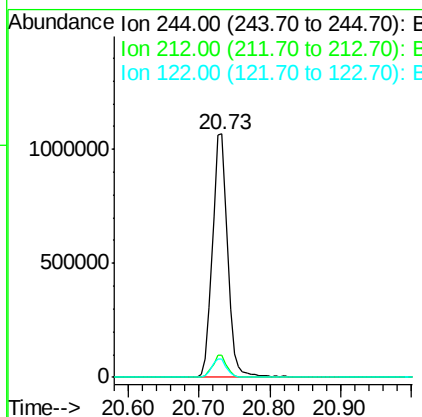
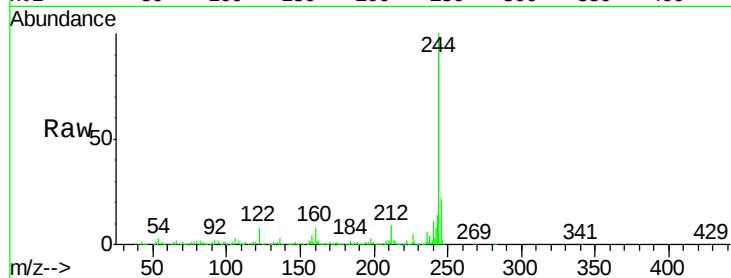




#78  
 Terphenyl-d14  
 Concen: 107.774 ng  
 RT: 20.73 min Scan# 2969  
 Delta R.T. -0.00 min  
 Lab File: BG033585.D  
 Acq: 5 Apr 2018 8:11

Tot Ion:244 Resp: 1608107

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.0   | 5.8   | 8.8#  |
| 122 | 7.7   | 7.0   | 10.4  |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 26.33 min Scan# 3921  
 Delta R.T. 0.00 min  
 Lab File: BG033585.D  
 Acq: 5 Apr 2018 8:11

Tgt Ion:264 Resp: 264813

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.5  | 17.4  | 26.0  |
| 265 | 20.6  | 17.7  | 26.5  |

