

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG102418\  
 Data File : BG037535.D  
 Acq On : 25 Oct 2018 7:13  
 Operator : JU/SJ  
 Sample : J5623-14  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Oct 25 08:03:10 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG101818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 18 14:06:42 2018  
 Response via : Initial Calibration

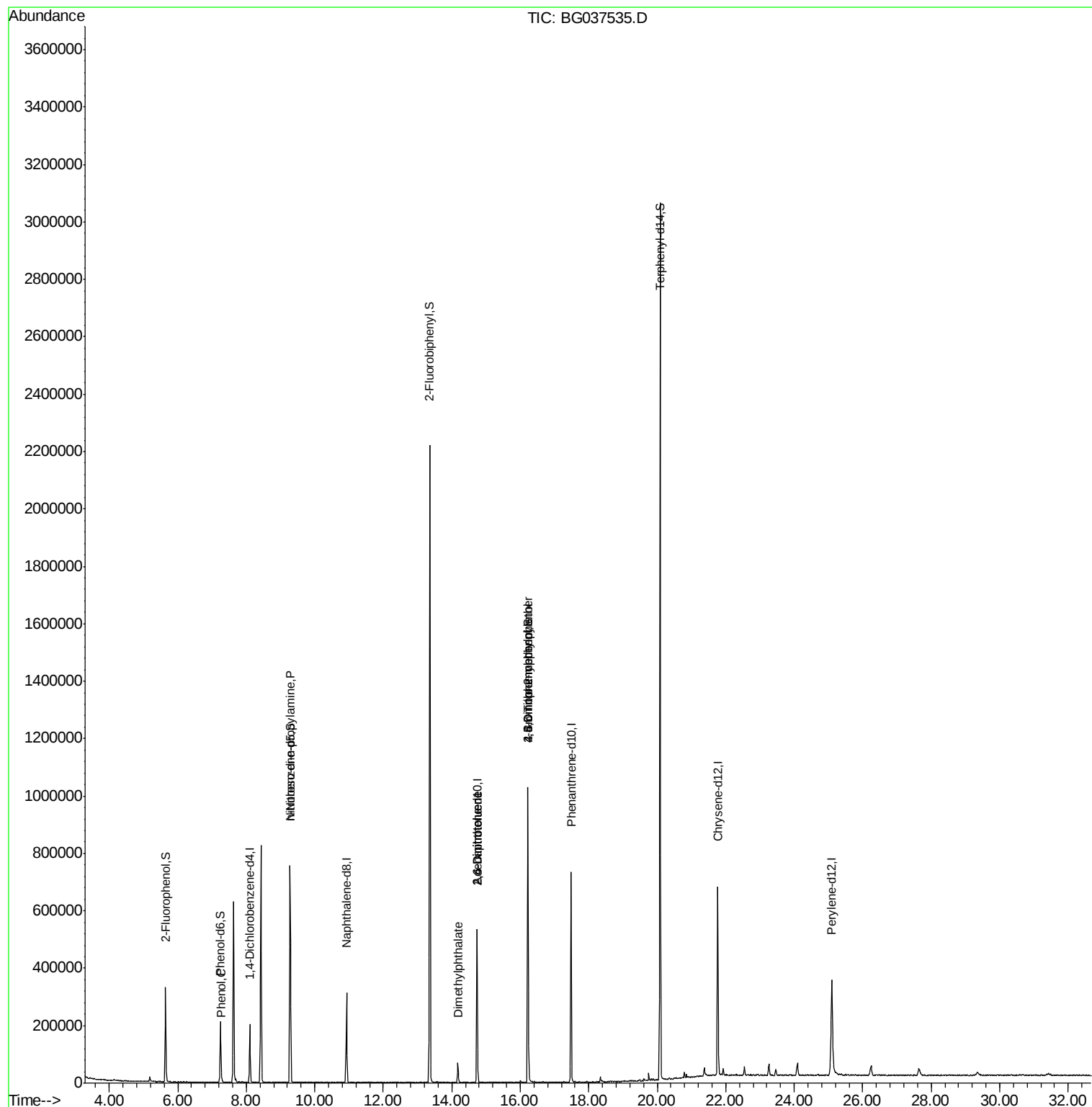
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.11  | 152  | 58935    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.93 | 136  | 278646   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.74 | 164  | 190863   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.48 | 188  | 451294   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.77 | 240  | 415212   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.10 | 264  | 396382   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 154547   | 43.84  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.24  | 99   | 139162   | 26.11  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.28  | 82   | 476547   | 95.80  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.23 | 330  | 188852   | 90.72  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.36 | 172  | 1179850  | 93.22  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.08 | 244  | 1522473  | 78.35  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.27  | 94   | 19191    | 3.412  | ng    | 97       |
| 19) n-Nitroso-di-n-propylamine | 9.28  | 70   | 58797    | 16.018 | ng    | # 71     |
| 50) Dimethylphthalate          | 14.18 | 163  | 50944    | 3.450  | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 14.73 | 165  | 24835    | 7.603  | ng    | # 24     |
| 57) 2,4-Dinitrotoluene         | 14.73 | 165  | 24835    | 5.792  | ng    | # 24     |
| 65) 4,6-Dinitro-2-methylphenol | 16.22 | 198  | 703      | 8.752  | ng    | 79       |
| 67) 4-Bromophenyl-phenylether  | 16.23 | 248  | 13941    | 2.813  | ng    | # 1      |

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

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BNA\_G  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG101818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 18 14:06:42 2018  
Response via : Initial Calibration



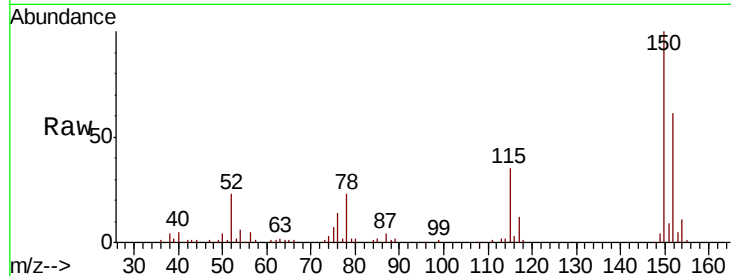


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.11 min Scan# 820  
Delta R.T. -0.00 min  
Lab File: BG037535.D  
Acq: 25 Oct 2018 7:13

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.8 | 126.0 | 189.0 |
| 115     | 56.9  | 45.5  | 68.3  |

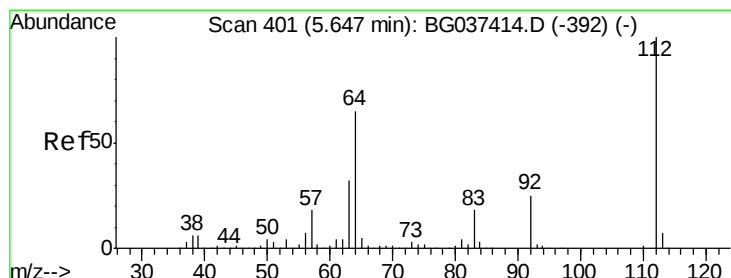
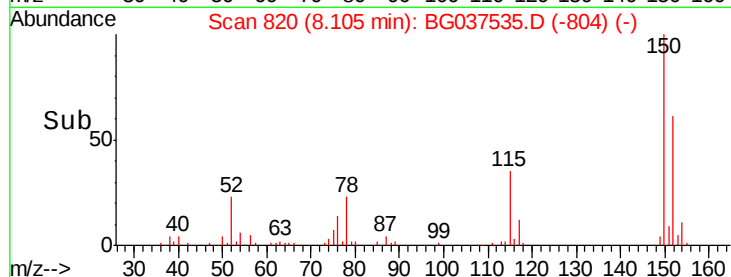
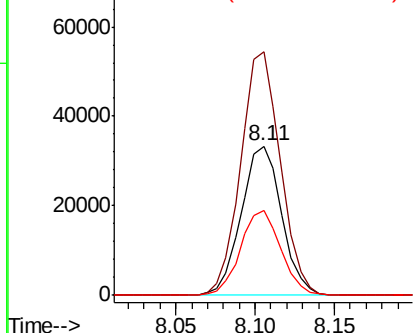


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

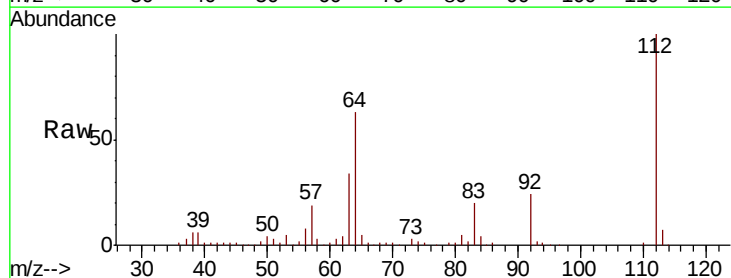
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 43.842 ng  
RT: 5.64 min Scan# 401  
Delta R.T. -0.00 min  
Lab File: BG037535.D  
Acq: 25 Oct 2018 7:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.9  | 53.1  | 79.7  |
| 63      | 34.2  | 27.3  | 40.9  |

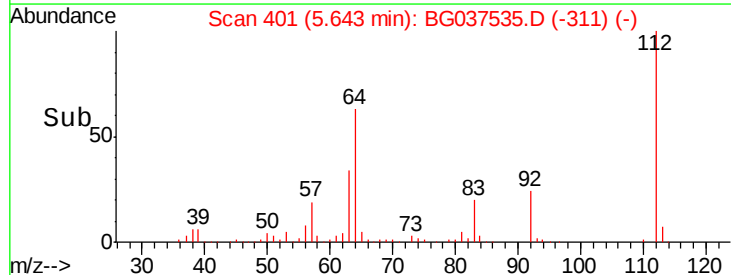
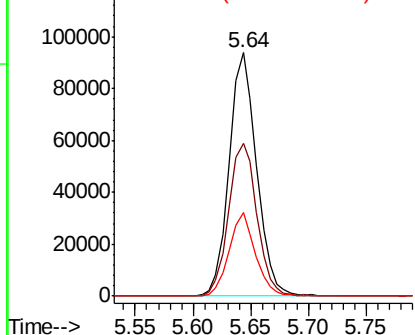


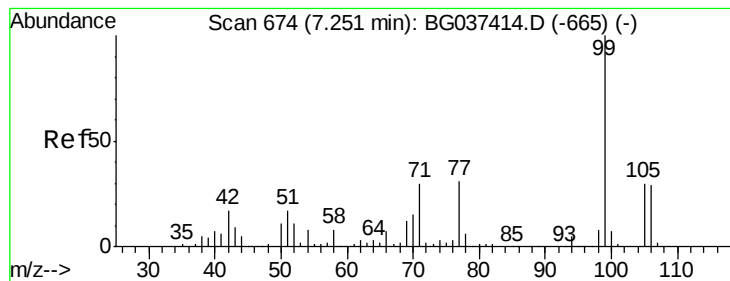
Abundance

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: 26.107 ng

RT: 7.24 min Scan# 673

Delta R.T. -0.01 min

Lab File: BG037535.D

Acq: 25 Oct 2018 7:13

Instrument :

BNA\_G

ClientSampled :

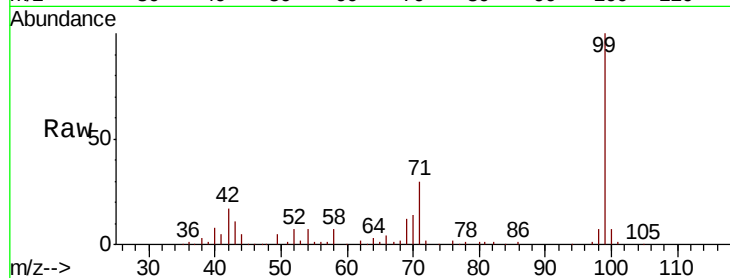
Tot Ion: 99 Resp: 139162

Ion Ratio Lower Upper

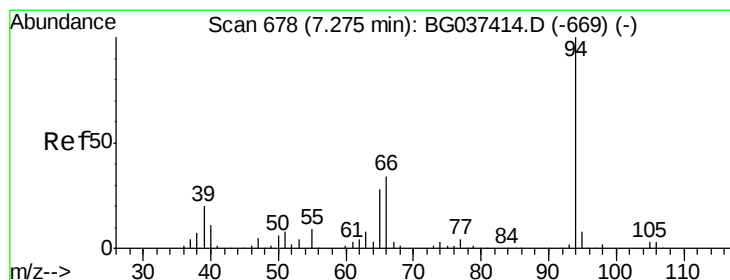
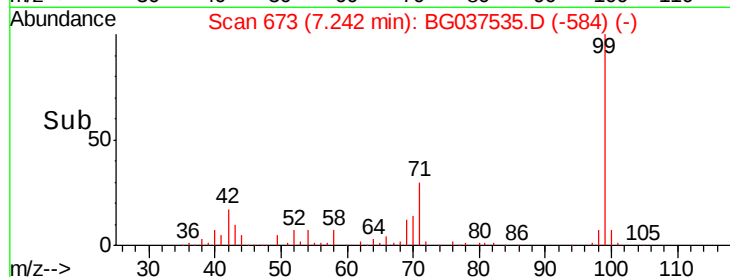
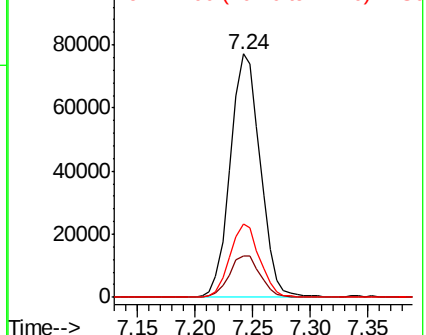
99 100

42 17.1 15.0 22.4

71 29.9 25.5 38.3



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



#10

Phenol

Concen: 3.412 ng

RT: 7.27 min Scan# 678

Delta R.T. -0.00 min

Lab File: BG037535.D

Acq: 25 Oct 2018 7:13

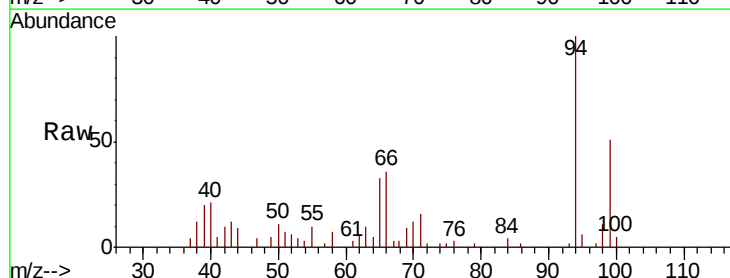
Tgt Ion: 94 Resp: 19191

Ion Ratio Lower Upper

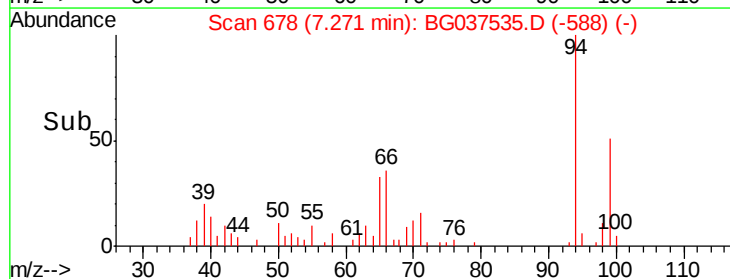
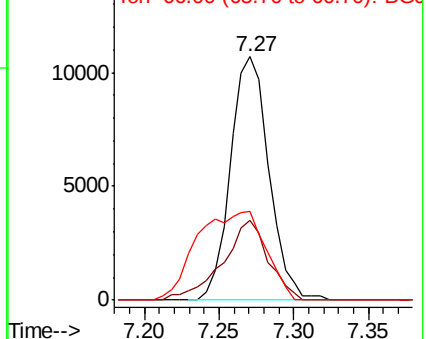
94 100

65 32.9 9.7 49.7

66 36.4 15.9 55.9



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





#19

n-Nitroso-di-n-propylamine

Concen: 16.018 ng

RT: 9.28 min Scan# 1020

Delta R.T. 0.37 min

Lab File: BG037535.D

Acq: 25 Oct 2018 7:13

Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 70 Resp: 58797

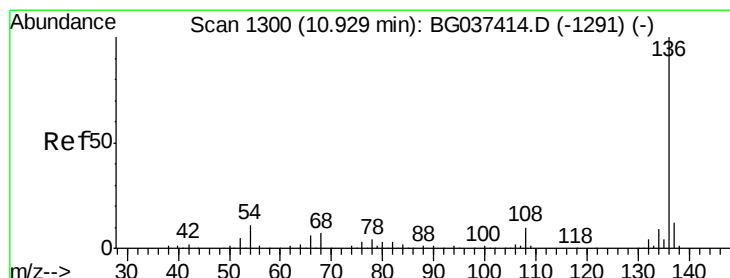
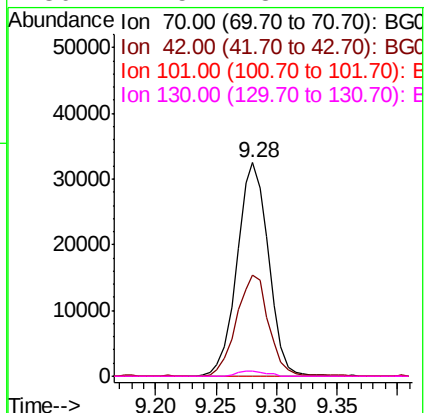
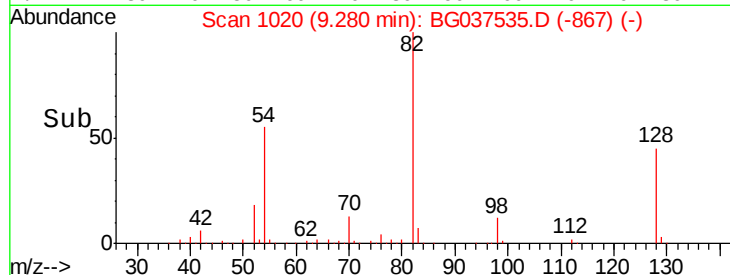
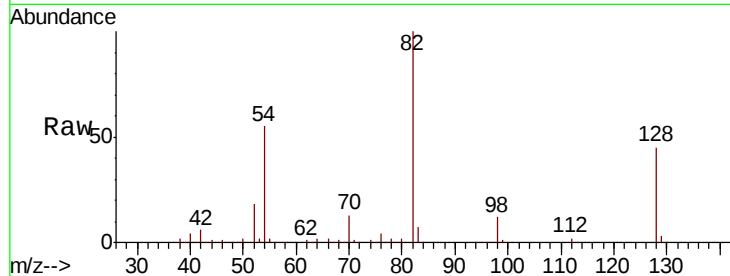
Ion Ratio Lower Upper

70 100

42 47.3 53.9 80.9#

101 0.0 8.2 12.2#

130 2.5 18.2 27.4#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.93 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BG037535.D

Acq: 25 Oct 2018 7:13

Tgt Ion: 136 Resp: 278646

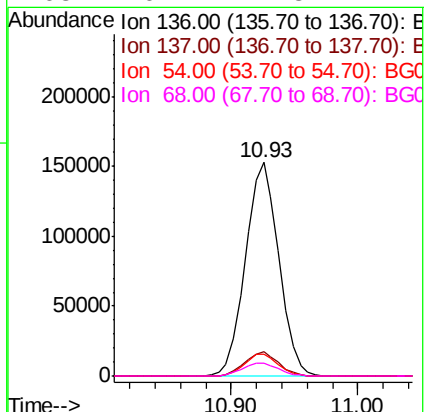
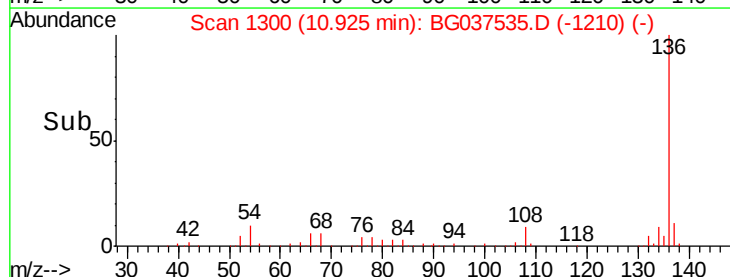
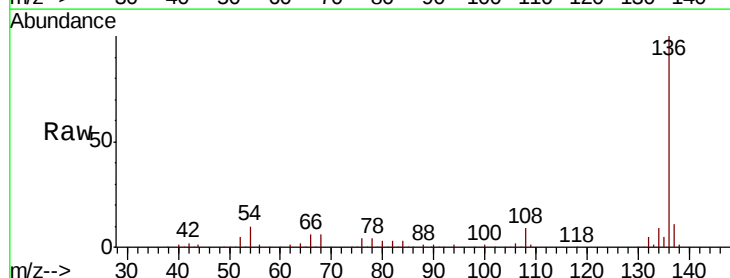
Ion Ratio Lower Upper

136 100

137 11.5 9.6 14.4

54 10.1 7.9 11.9

68 6.1 4.8 7.2

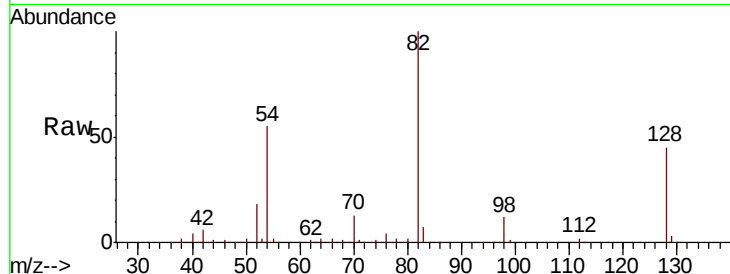




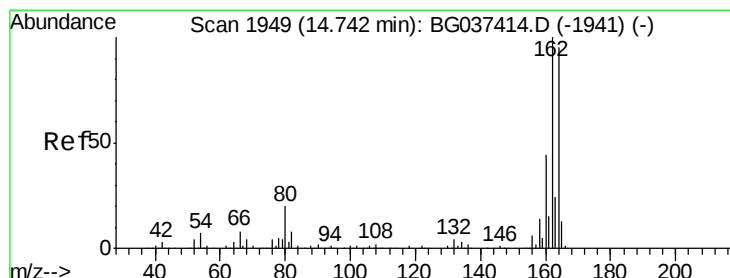
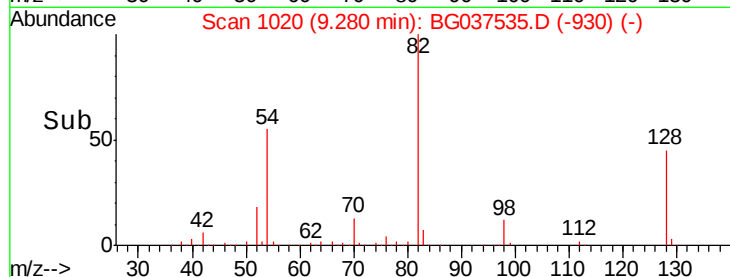
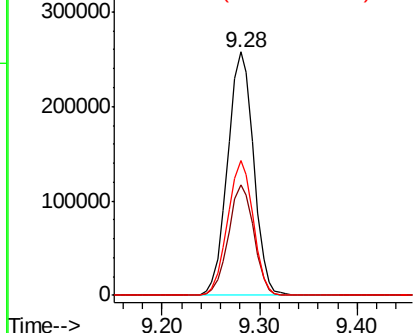
#23  
Nitrobenzene-d5  
Concen: 95.805 ng  
RT: 9.28 min Scan# 1020  
Delta R.T. -0.00 min  
Lab File: BG037535.D  
Acq: 25 Oct 2018 7:13

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion   | 82    | Resp  | 476547 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 45.3  | 34.6  | 51.8   |
| 54        | 55.2  | 45.3  | 67.9   |

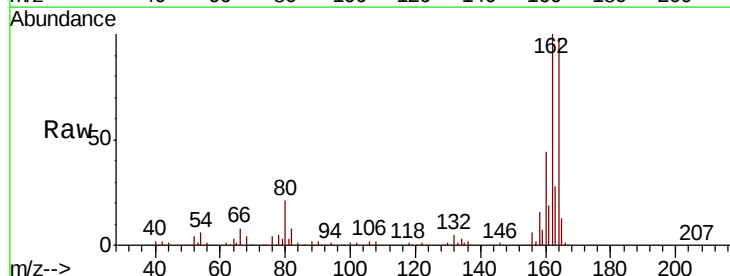


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

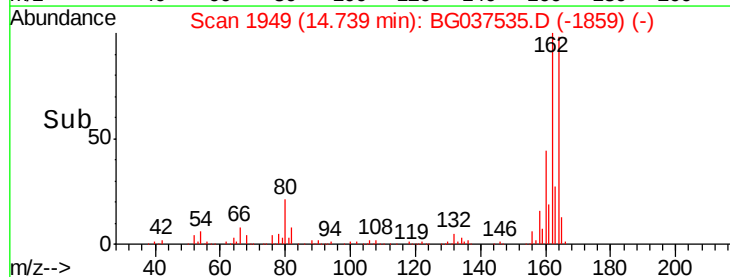
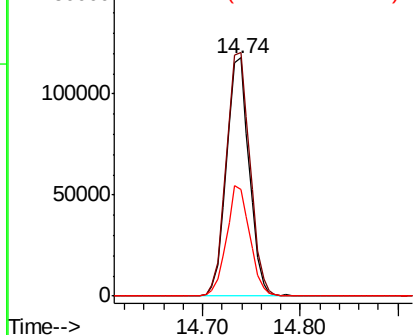


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.74 min Scan# 1949  
Delta R.T. -0.00 min  
Lab File: BG037535.D  
Acq: 25 Oct 2018 7:13

| Tgt Ion   | 164   | Resp  | 190863 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 102.3 | 81.3  | 121.9  |
| 160       | 44.8  | 36.3  | 54.5   |



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

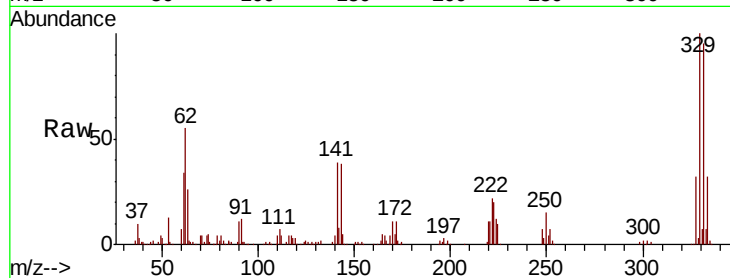




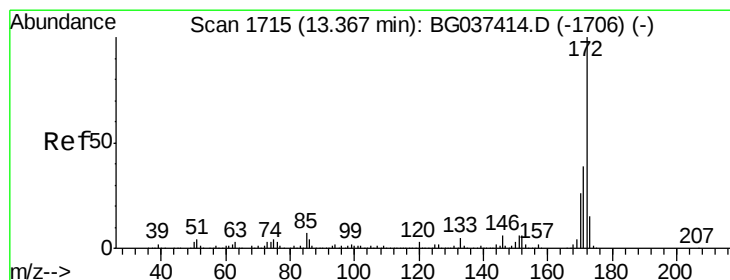
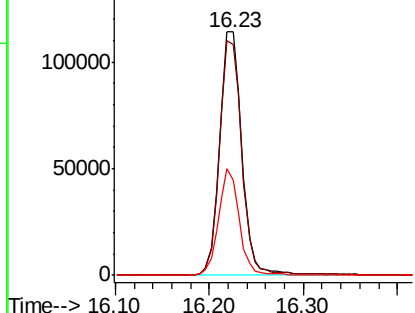
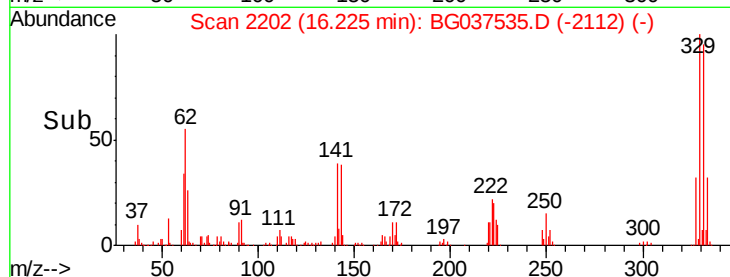
#42  
 2,4,6-Tribromophenol  
 Concen: 90.719 ng  
 RT: 16.23 min Scan# 2202  
 Delta R.T. -0.00 min  
 Lab File: BG037535.D  
 Acq: 25 Oct 2018 7:13

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:330 Resp: 188852  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 78.4 117.6  
 141 40.9 32.2 48.2

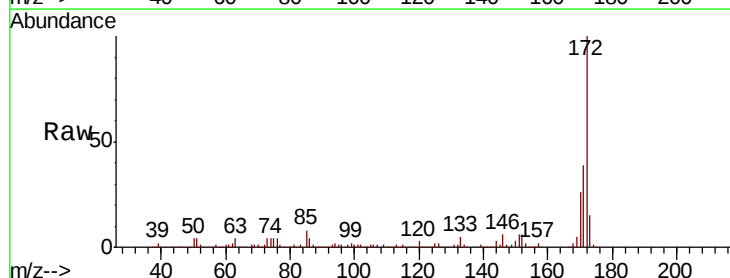


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

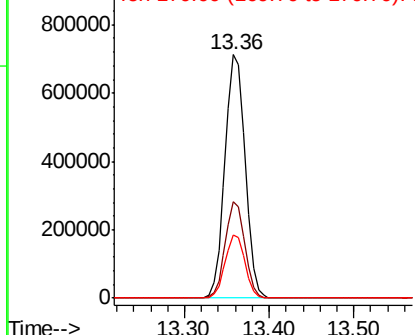
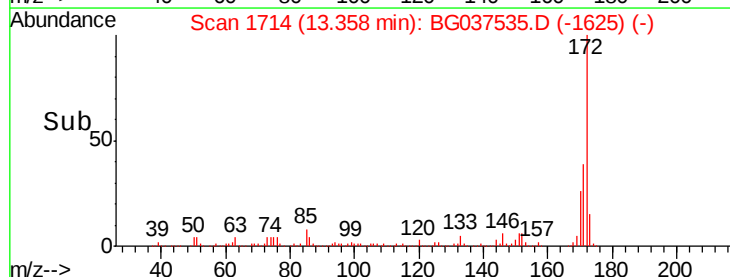


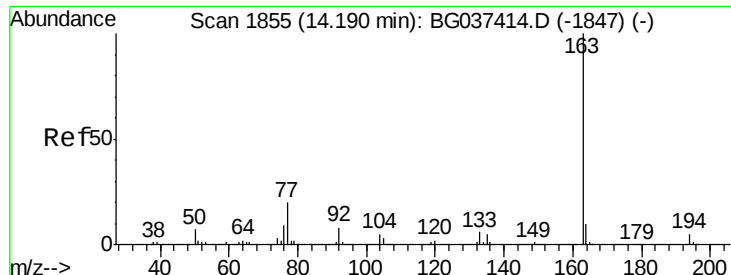
#45  
 2-Fluorobiphenyl  
 Concen: 93.216 ng  
 RT: 13.36 min Scan# 1714  
 Delta R.T. -0.01 min  
 Lab File: BG037535.D  
 Acq: 25 Oct 2018 7:13

Tgt Ion:172 Resp: 1179850  
 Ion Ratio Lower Upper  
 172 100  
 171 39.4 31.0 46.4  
 170 26.1 20.2 30.2



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

Dimethylphthalate

Concen: 3.450 ng

RT: 14.18 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BG037535.D

Acq: 25 Oct 2018 7:13

Instrument :

BNA\_G

ClientSampleId :

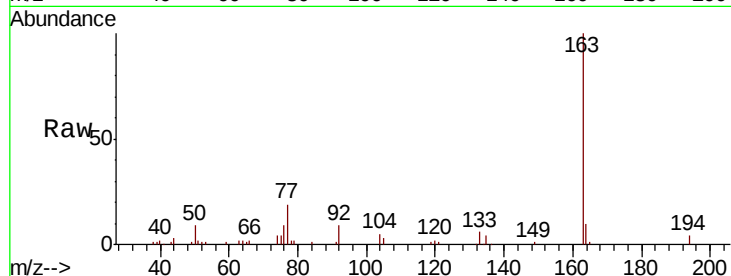
Tot Ion:163 Resp: 50944

Ion Ratio Lower Upper

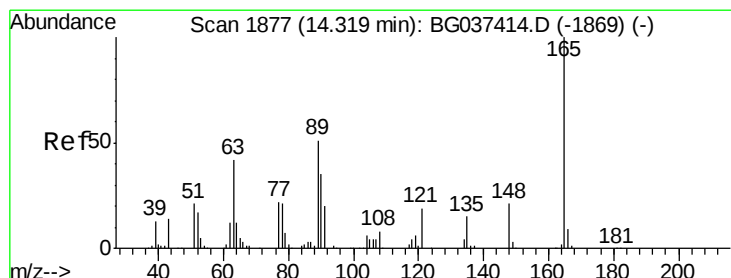
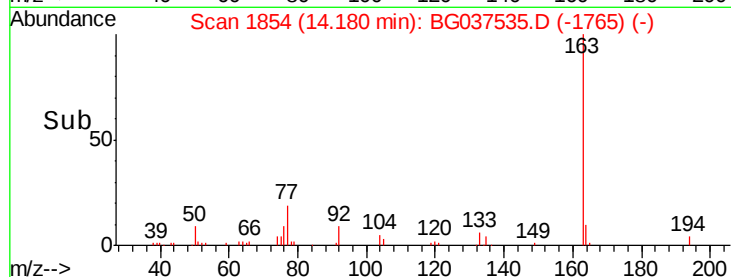
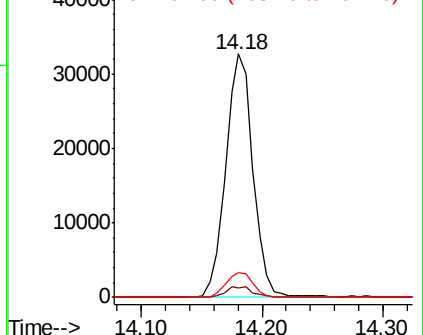
163 100

194 3.9 3.5 5.3

164 10.3 8.5 12.7



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



#51

2,6-Dinitrotoluene

Concen: 7.603 ng

RT: 14.73 min Scan# 1948

Delta R.T. 0.41 min

Lab File: BG037535.D

Acq: 25 Oct 2018 7:13

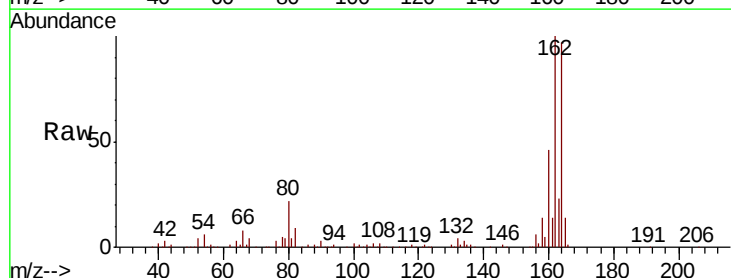
Tgt Ion:165 Resp: 24835

Ion Ratio Lower Upper

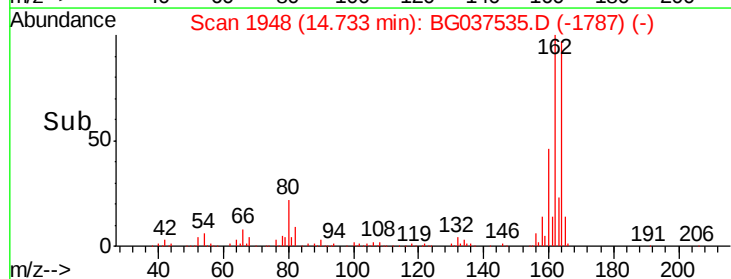
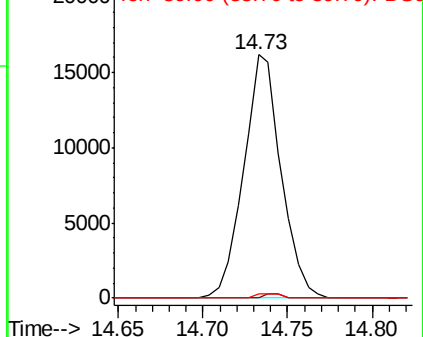
165 100

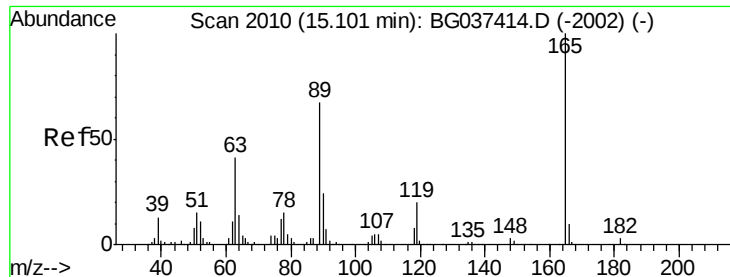
63 0.0 43.4 65.2#

89 1.5 45.8 68.6#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BG  
Ion 89.00 (88.70 to 89.70): BG

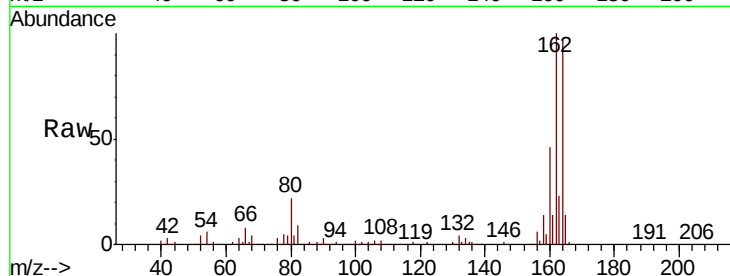




#57  
2,4-Dinitrotoluene  
Concen: 5.792 ng  
RT: 14.73 min Scan# 1948  
Delta R.T. -0.37 min  
Lab File: BG037535.D  
Acq: 25 Oct 2018 7:13

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 33.4  | 50.0# |
| 89      | 1.5   | 57.2  | 85.8# |
| 182     | 0.0   | 2.6   | 4.0#  |

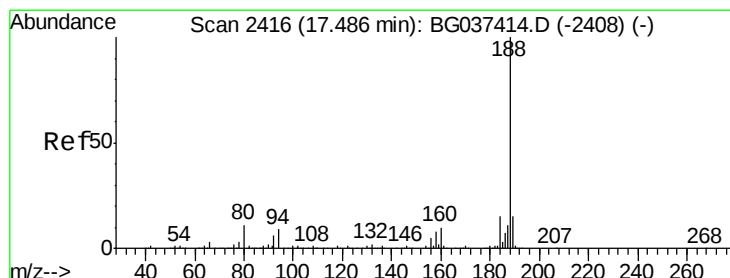
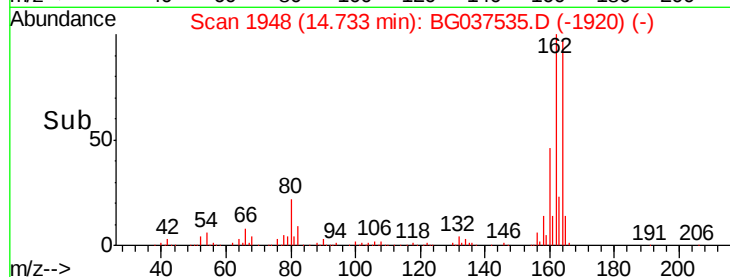
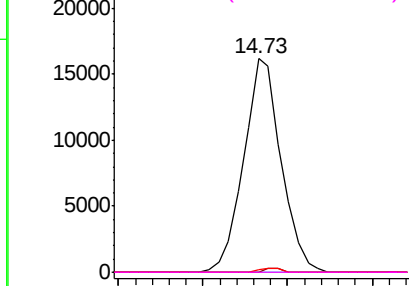


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

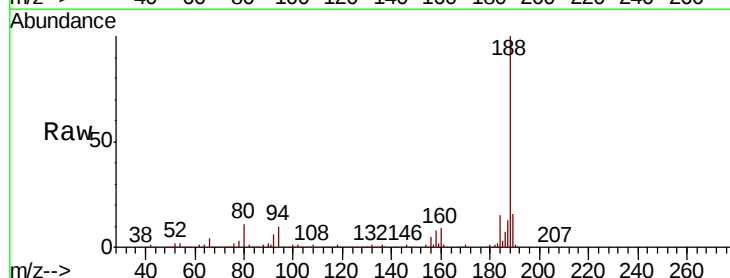
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.48 min Scan# 2416  
Delta R.T. -0.00 min  
Lab File: BG037535.D  
Acq: 25 Oct 2018 7:13

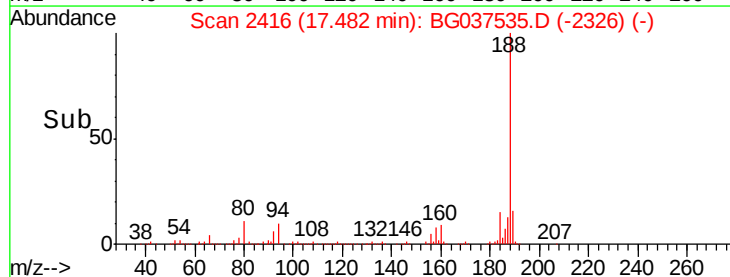
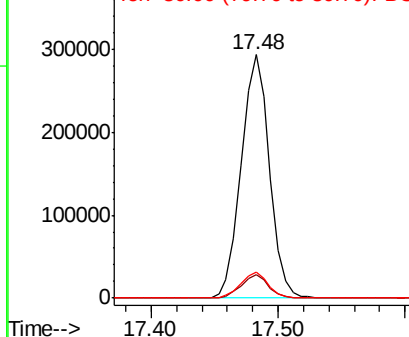
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.6   | 7.2   | 10.8  |
| 80      | 10.8  | 7.7   | 11.5  |

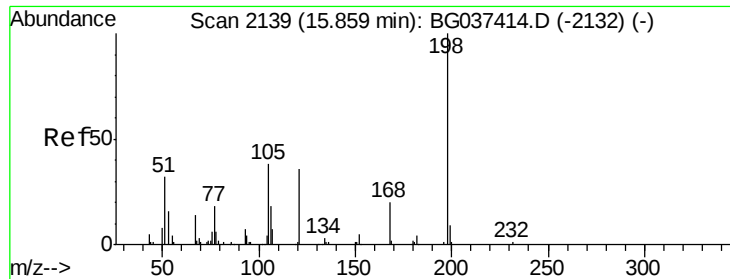


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

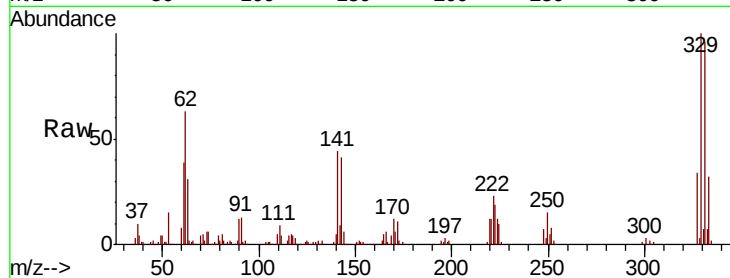




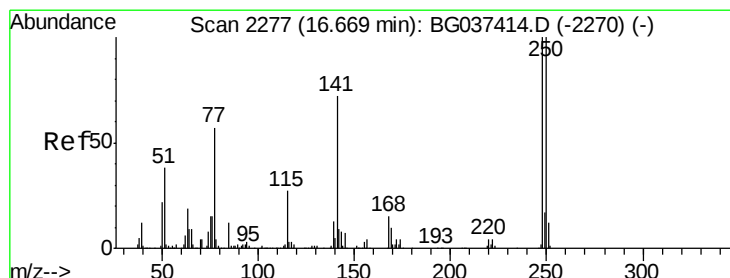
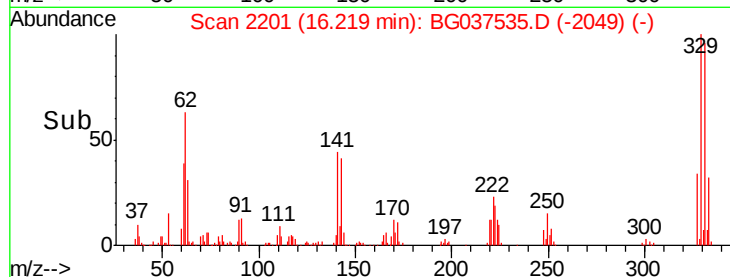
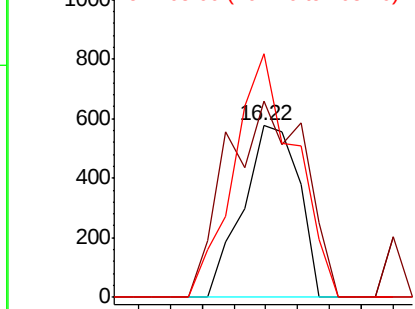
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.752 ng  
 RT: 16.22 min Scan# 2201  
 Delta R.T. 0.36 min  
 Lab File: BG037535.D  
 Acq: 25 Oct 2018 7:13

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:198 Resp: 703  
 Ion Ratio Lower Upper  
 198 100  
 51 25.0 22.7 62.7  
 105 31.1 19.7 59.7

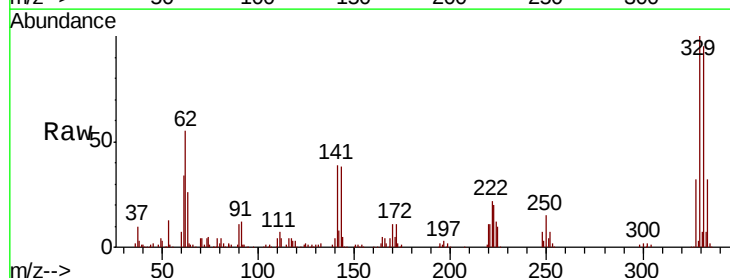


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG0  
 Ion 105.00 (104.70 to 105.70): E

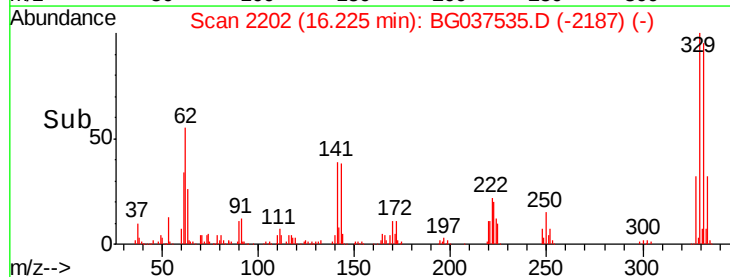
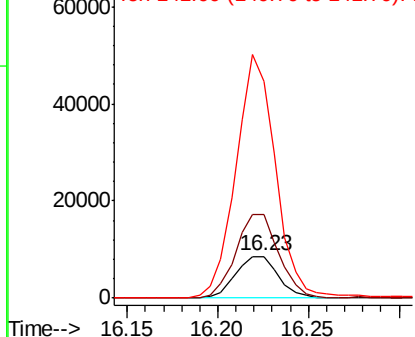


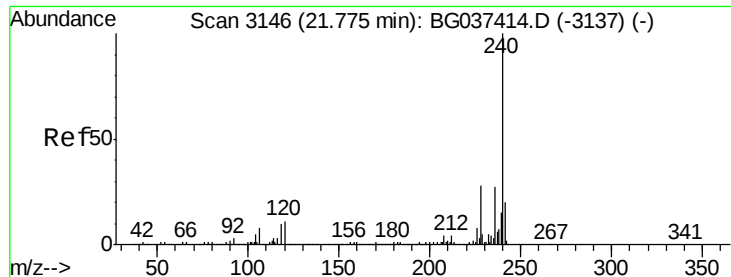
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.813 ng  
 RT: 16.23 min Scan# 2202  
 Delta R.T. -0.44 min  
 Lab File: BG037535.D  
 Acq: 25 Oct 2018 7:13

Tgt Ion:248 Resp: 13941  
 Ion Ratio Lower Upper  
 248 100  
 250 194.4 77.0 115.6#  
 141 390.0 55.5 83.3#



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

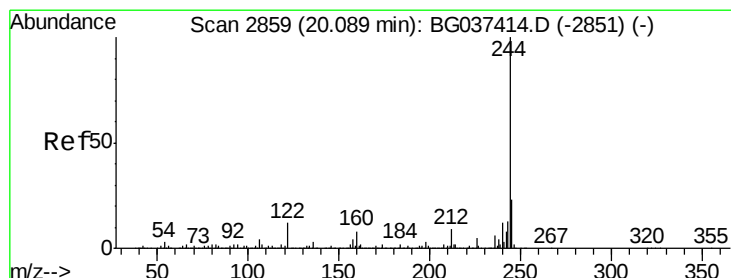
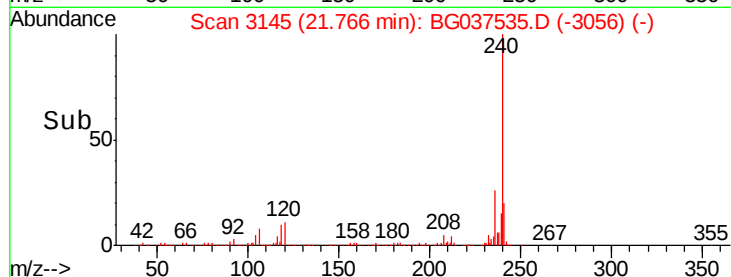
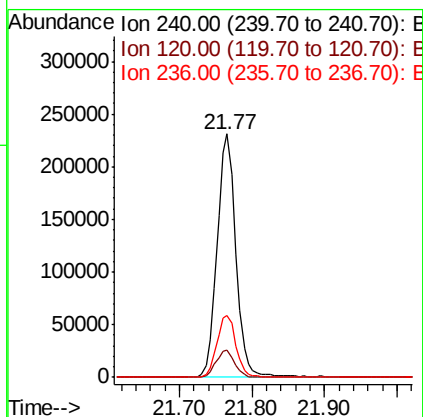
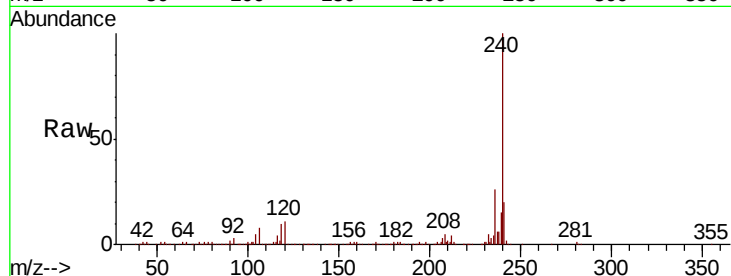




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 21.77 min Scan# 3145  
 Delta R.T. -0.01 min  
 Lab File: BG037535.D  
 Acq: 25 Oct 2018 7:13

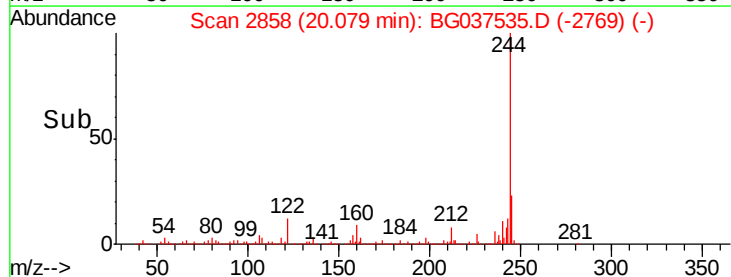
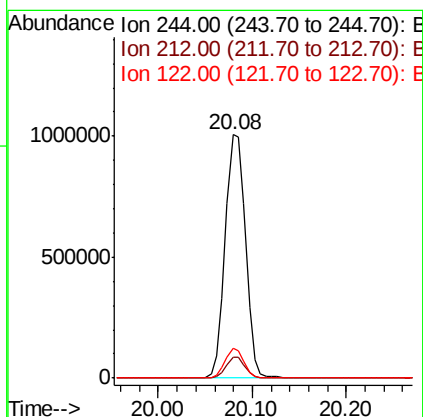
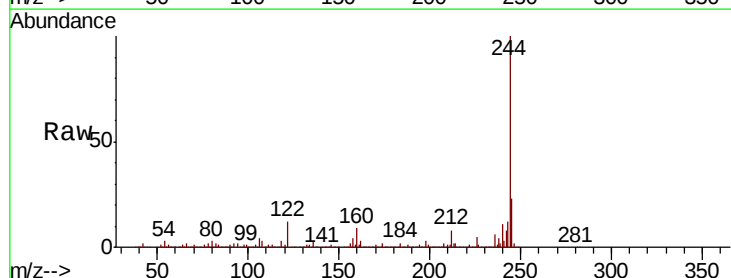
Instrument :  
 BNA\_G  
 ClientSampleId :

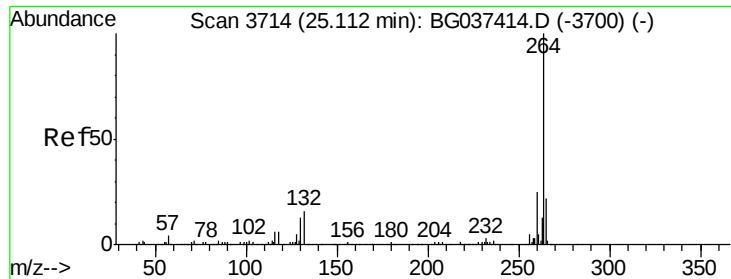
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.1  | 8.1   | 12.1  |
| 236     | 25.6  | 21.4  | 32.0  |



#79  
 Terphenyl-d14  
 Concen: 78.350 ng  
 RT: 20.08 min Scan# 2858  
 Delta R.T. -0.01 min  
 Lab File: BG037535.D  
 Acq: 25 Oct 2018 7:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.5   | 6.5   | 9.7   |
| 122     | 12.4  | 9.0   | 13.4  |

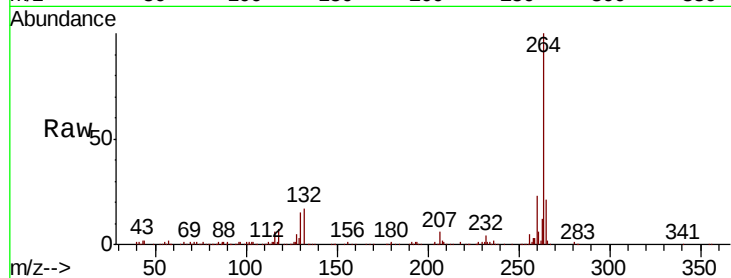




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 25.10 min Scan# 3712  
Delta R.T. -0.02 min  
Lab File: BG037535.D  
Acq: 25 Oct 2018 7:13

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 18.2  | 27.4  |
| 265     | 21.2  | 17.9  | 26.9  |



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

