

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG092418\  
 Data File : BG036944.D  
 Acq On : 25 Sep 2018 8:46  
 Operator : JU/SJ  
 Sample : J5061-04  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 25 11:08:09 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 24 10:41:23 2018  
 Response via : Initial Calibration

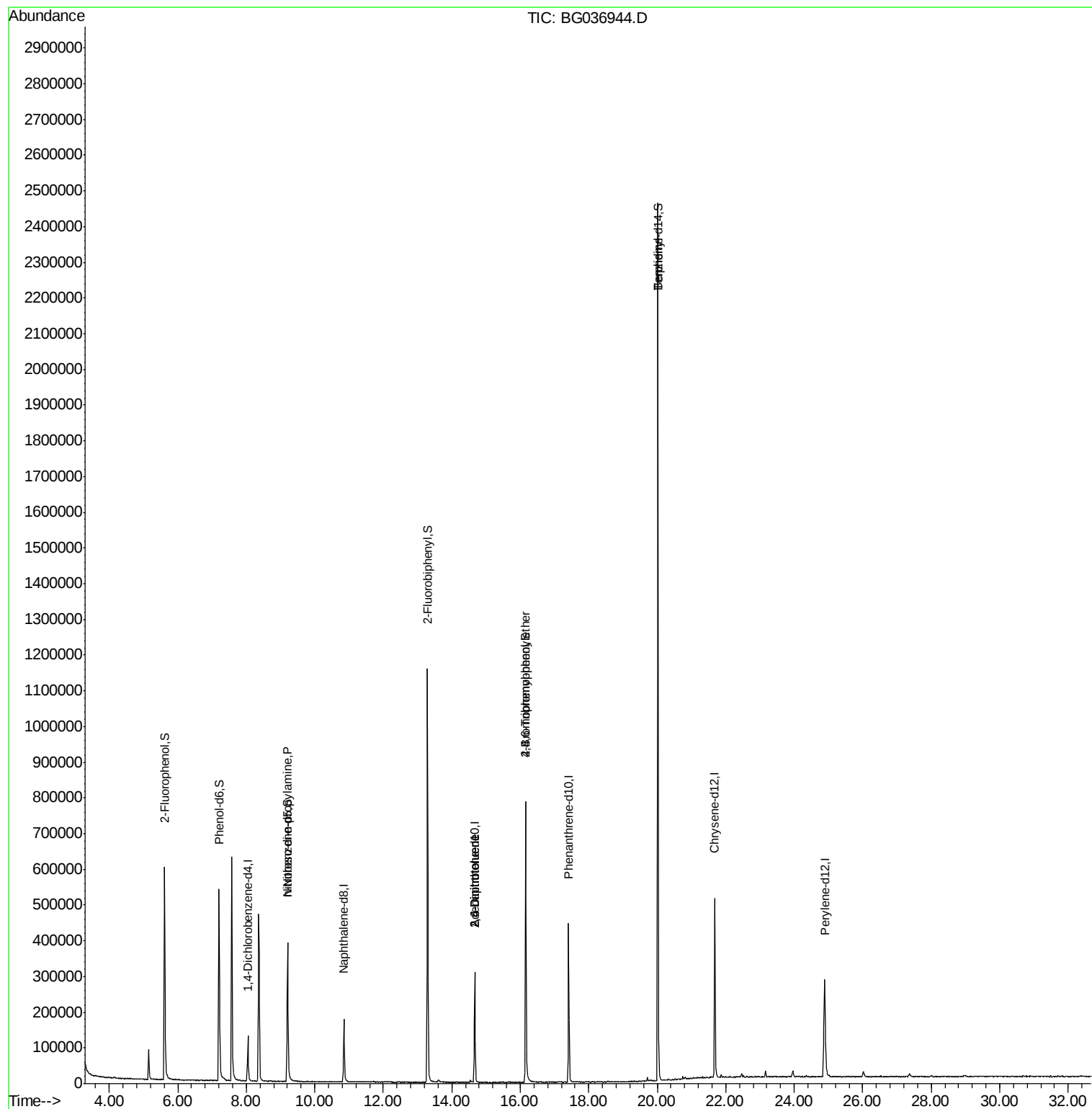
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 40375    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.85 | 136  | 171189   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.67 | 164  | 116858   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.41 | 188  | 310602   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.68 | 240  | 329395   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 24.89 | 264  | 323741   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 267447   | 127.04 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 347251   | 106.61 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.20  | 82   | 286143   | 89.51  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 160814   | 115.02 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.29 | 172  | 640536   | 81.64  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.02 | 244  | 1199069  | 95.72  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 38106    | 14.063 | ng    | # 74     |
| 50) 2,6-Dinitrotoluene         | 14.67 | 165  | 13785    | 6.717  | ng    | # 23     |
| 56) 2,4-Dinitrotoluene         | 14.67 | 165  | 13785    | 4.814  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 11074    | 3.135  | ng    | # 1      |
| 76) Benzidine                  | 20.02 | 184  | 20753    | 2.084  | ng    | # 94     |

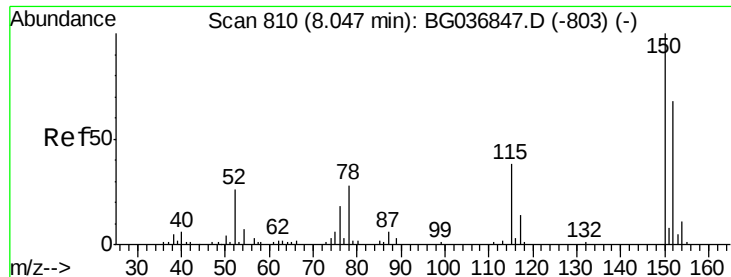
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG092418\  
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Operator : JU/SJ  
Sample : J5061-04  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Sep 25 11:08:09 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Sep 24 10:41:23 2018  
Response via : Initial Calibration



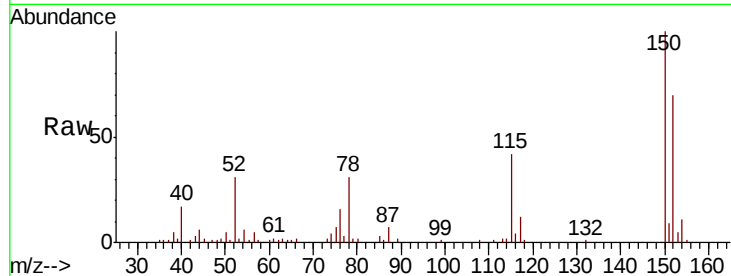


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 810  
Delta R.T. -0.00 min  
Lab File: BG036944.D  
Acq: 25 Sep 2018 8:46

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 143.8 | 119.5 | 179.3 |
| 115     | 60.7  | 44.5  | 66.7  |

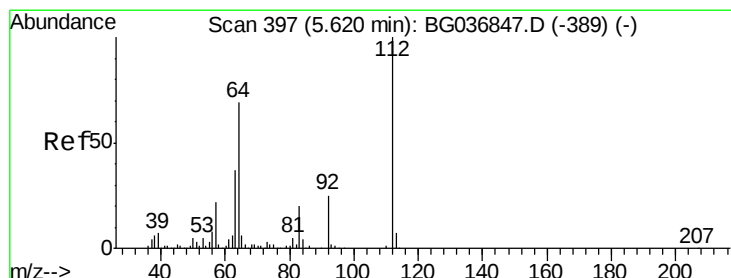
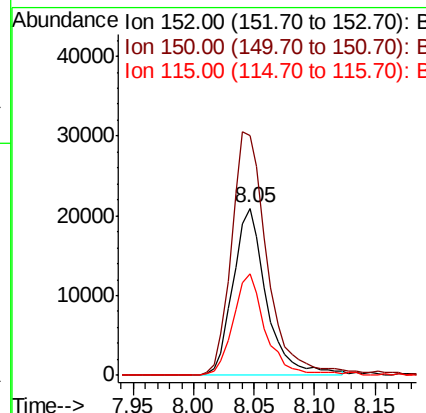
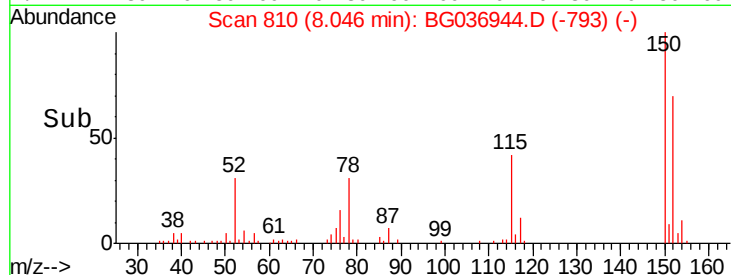


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

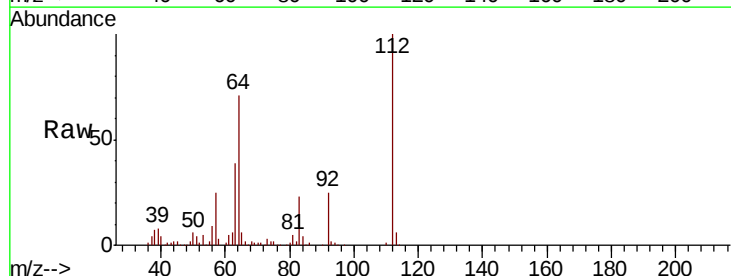
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 127.035 ng  
RT: 5.61 min Scan# 396  
Delta R.T. -0.01 min  
Lab File: BG036944.D  
Acq: 25 Sep 2018 8:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 71.4  | 57.2  | 85.8  |
| 63      | 39.3  | 30.8  | 46.2  |

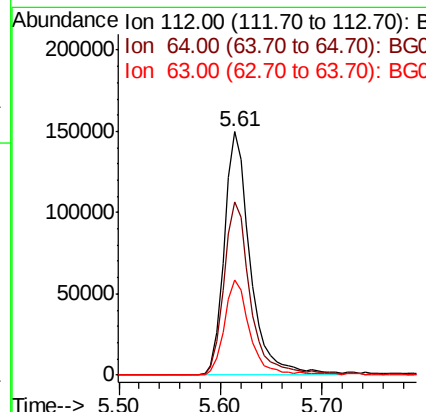
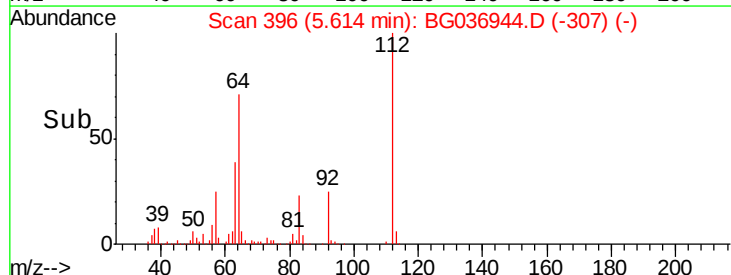


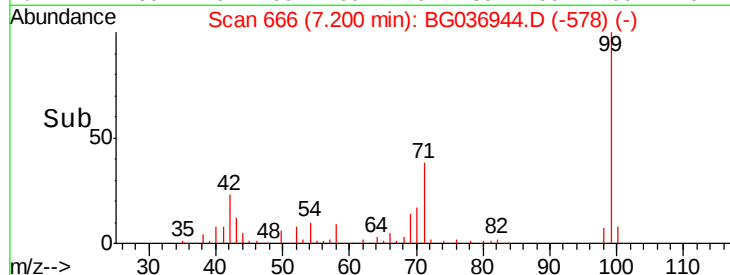
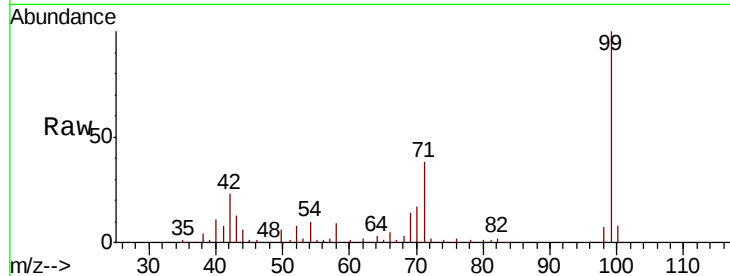
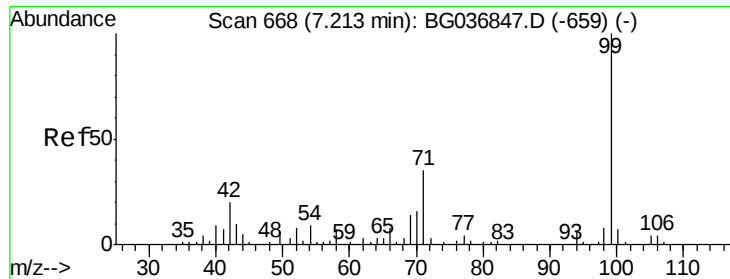
Abundance

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: 106.609 ng

RT: 7.20 min Scan# 666

Delta R.T. -0.01 min

Lab File: BG036944.D

Acq: 25 Sep 2018 8:46

Instrument :

BNA\_G

ClientSampleId :

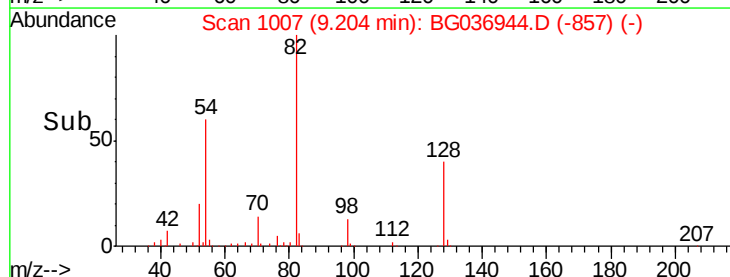
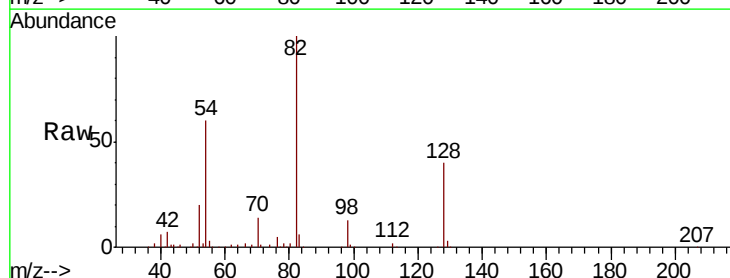
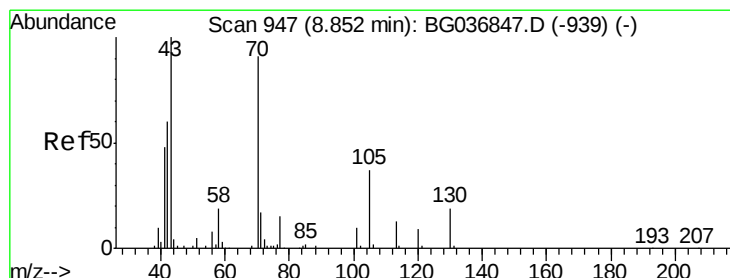
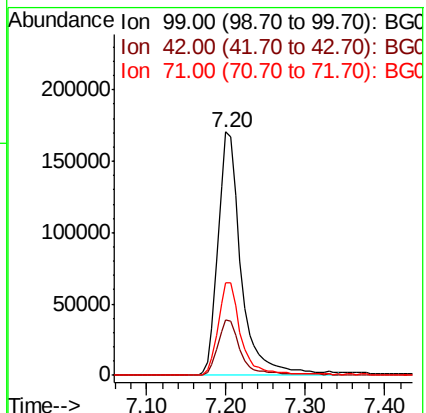
Tot Ion: 99 Resp: 347251

Ion Ratio Lower Upper

99 100

42 22.8 16.5 24.7

71 38.1 29.4 44.2



#19

n-Nitroso-di-n-propylamine

Concen: 14.063 ng

RT: 9.20 min Scan# 1007

Delta R.T. 0.35 min

Lab File: BG036944.D

Acq: 25 Sep 2018 8:46

Tgt Ion: 70 Resp: 38106

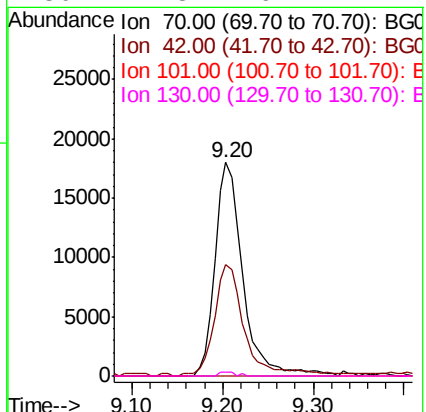
Ion Ratio Lower Upper

70 100

42 52.4 56.2 84.4#

101 0.0 7.8 11.6#

130 1.8 16.2 24.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.85 min Scan# 1287

Delta R.T. -0.01 min

Lab File: BG036944.D

Acq: 25 Sep 2018 8:46

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 171189

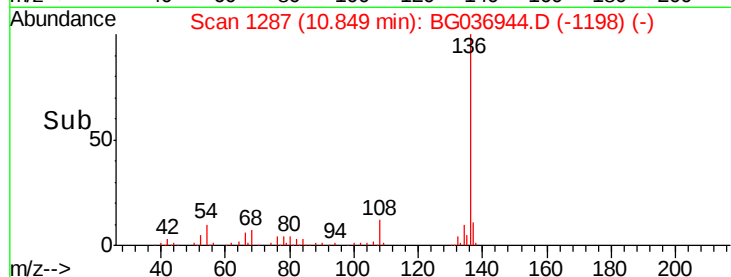
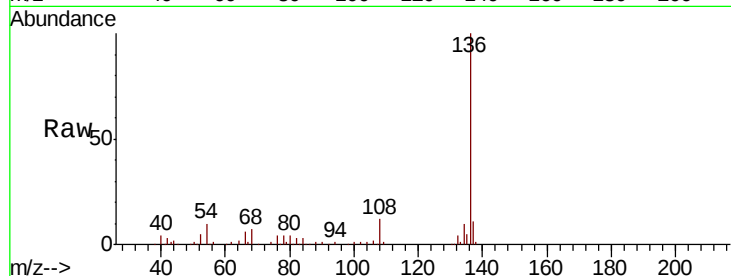
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 9.8 9.2 13.8

68 7.3 5.8 8.6

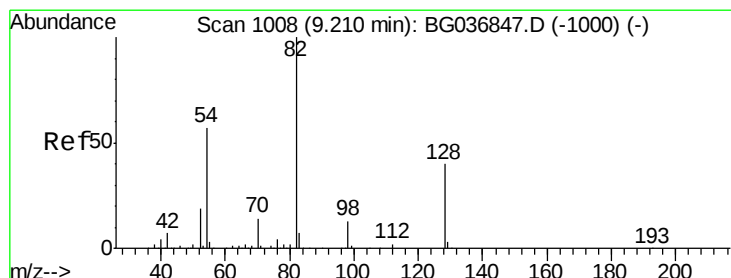
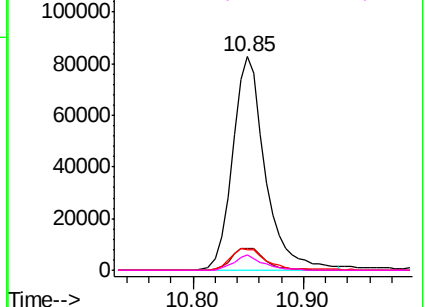


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23

Nitrobenzene-d5

Concen: 89.511 ng

RT: 9.20 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BG036944.D

Acq: 25 Sep 2018 8:46

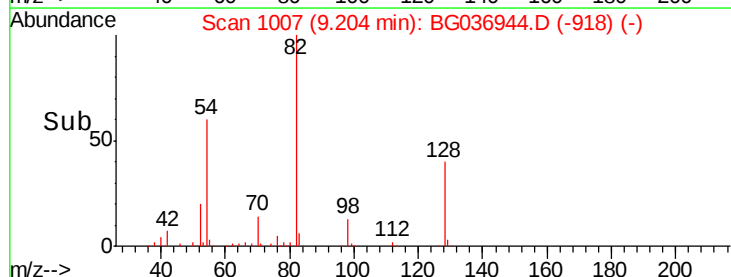
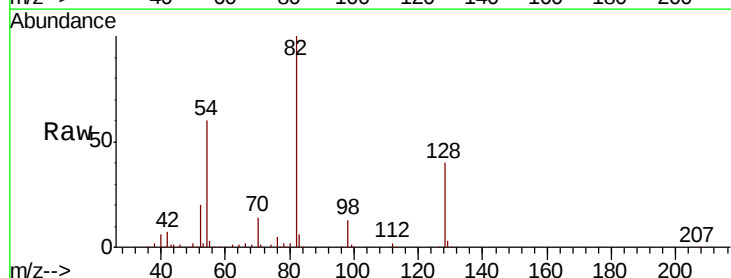
Tgt Ion: 82 Resp: 286143

Ion Ratio Lower Upper

82 100

128 40.0 33.3 49.9

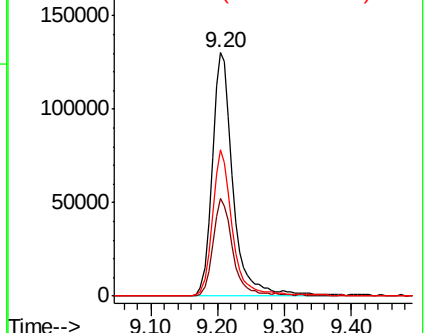
54 59.9 45.1 67.7



Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.67 min Scan# 1937

Delta R.T. -0.01 min

Lab File: BG036944.D

Acq: 25 Sep 2018 8:46

Instrument :

BNA\_G

ClientSampleId :

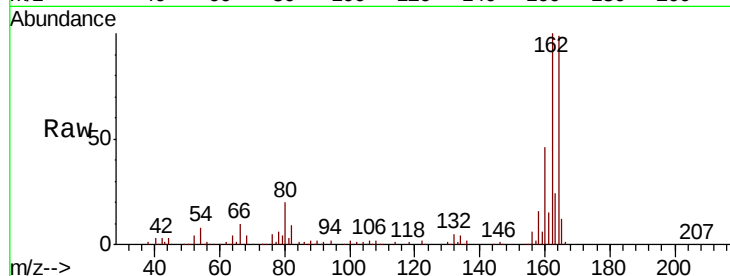
Tot Ion:164 Resp: 116858

Ion Ratio Lower Upper

164 100

162 100.8 80.7 121.1

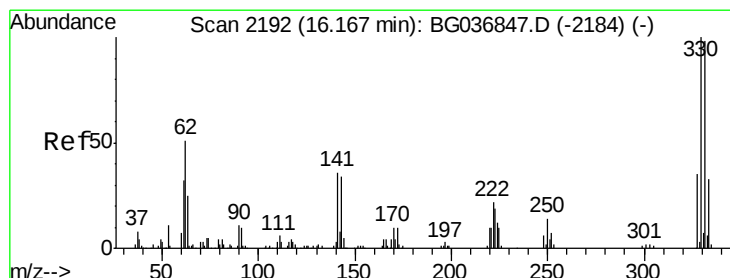
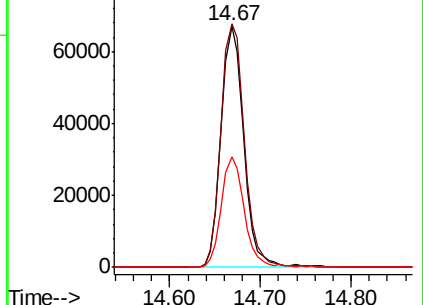
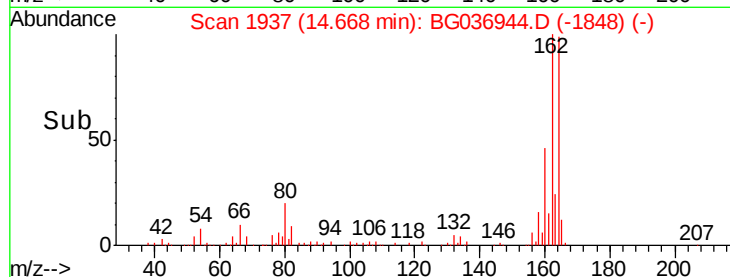
160 46.0 35.3 52.9



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: 115.020 ng

RT: 16.16 min Scan# 2191

Delta R.T. -0.01 min

Lab File: BG036944.D

Acq: 25 Sep 2018 8:46

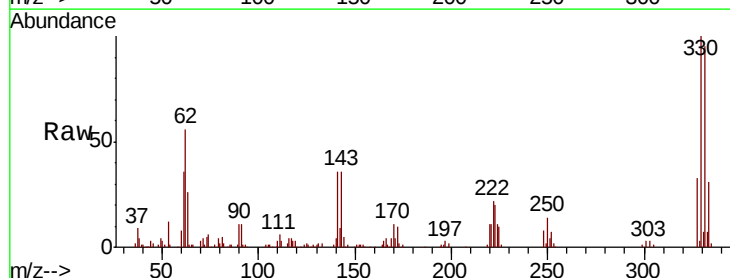
Tgt Ion:330 Resp: 160814

Ion Ratio Lower Upper

330 100

332 94.6 75.4 113.2

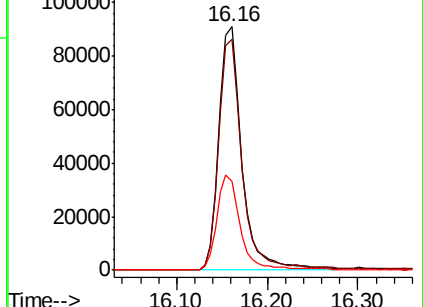
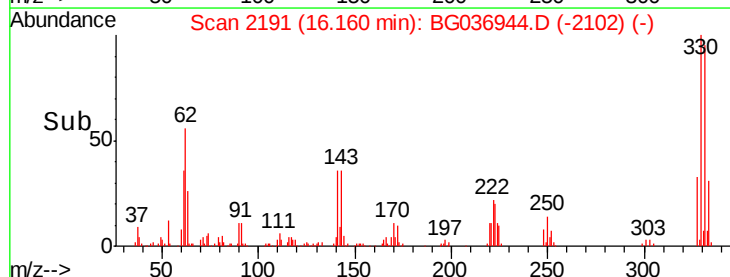
141 40.0 30.7 46.1

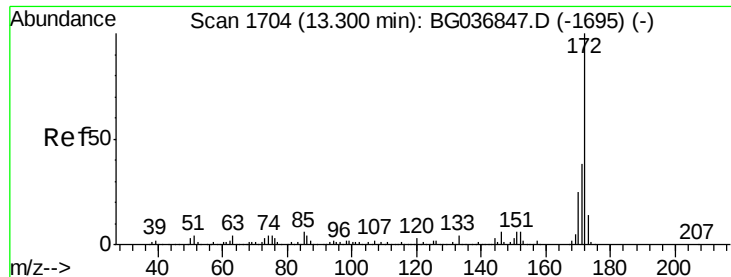


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

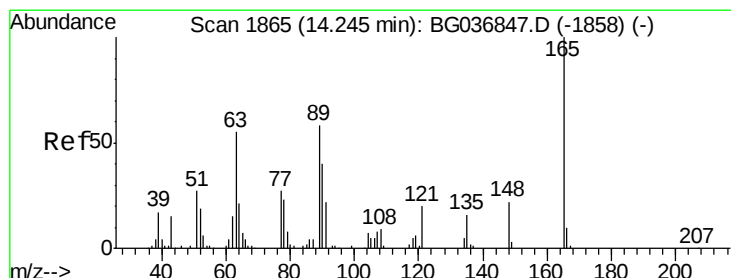
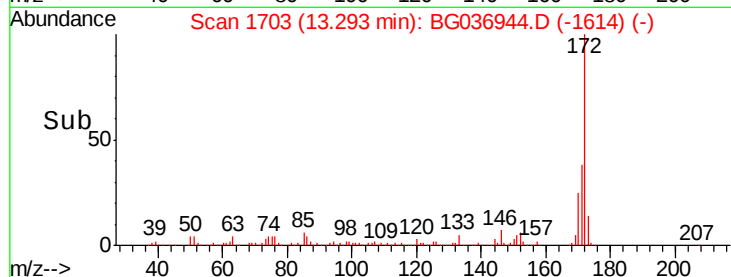
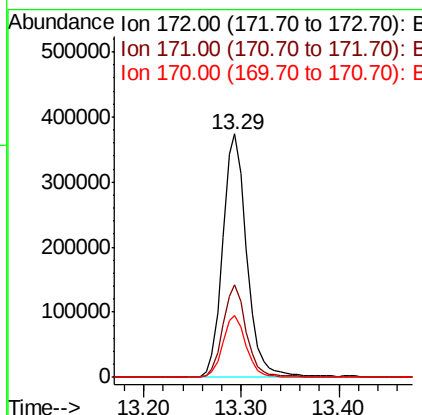
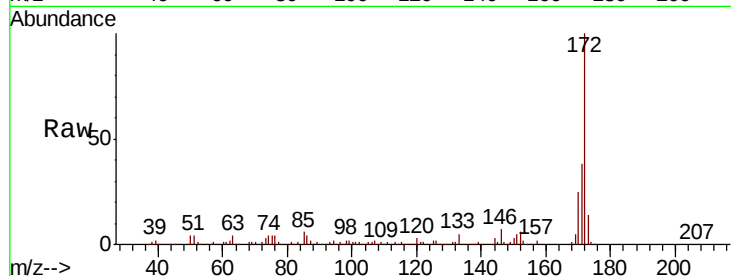




#44  
 2-Fluorobiphenyl  
 Concen: 81.638 ng  
 RT: 13.29 min Scan# 1703  
 Delta R.T. -0.01 min  
 Lab File: BG036944.D  
 Acq: 25 Sep 2018 8:46

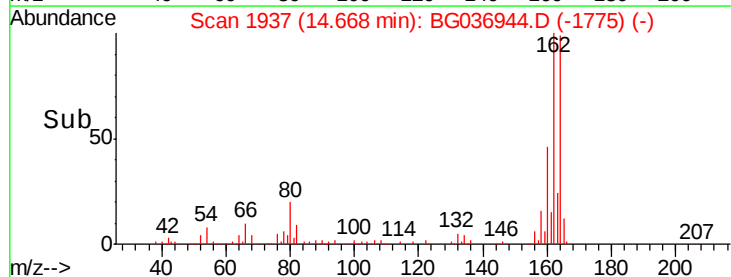
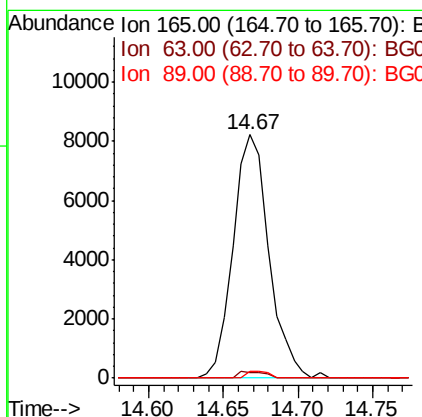
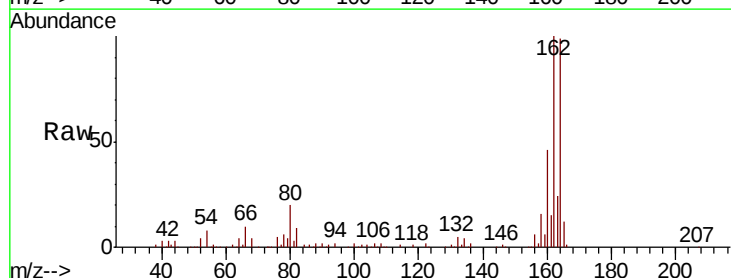
Instrument :  
 BNA\_G  
 ClientSampled :

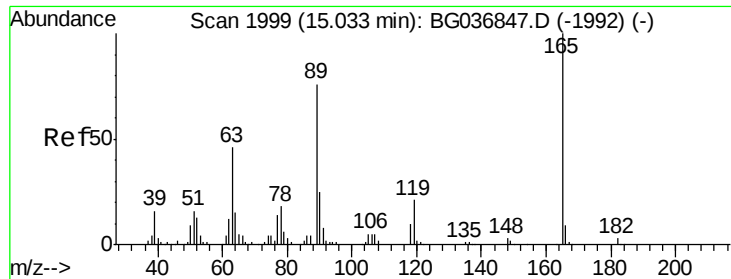
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 31.3  | 46.9  |
| 170     | 25.2  | 21.0  | 31.6  |



#50  
 2,6-Dinitrotoluene  
 Concen: 6.717 ng  
 RT: 14.67 min Scan# 1937  
 Delta R.T. 0.42 min  
 Lab File: BG036944.D  
 Acq: 25 Sep 2018 8:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.4   | 50.1  | 75.1# |
| 89      | 2.8   | 47.8  | 71.6# |

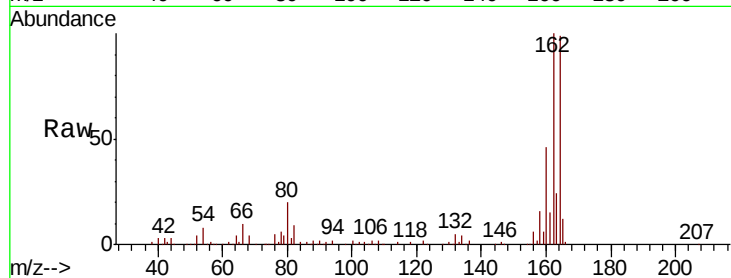




#56  
2,4-Dinitrotoluene  
Concen: 4.814 ng  
RT: 14.67 min Scan# 1937  
Delta R.T. -0.36 min  
Lab File: BG036944.D  
Acq: 25 Sep 2018 8:46

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.4   | 40.1  | 60.1# |
| 89      | 2.8   | 63.7  | 95.5# |
| 182     | 0.0   | 2.5   | 3.7#  |



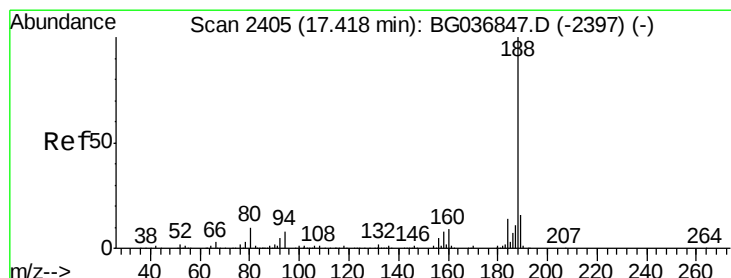
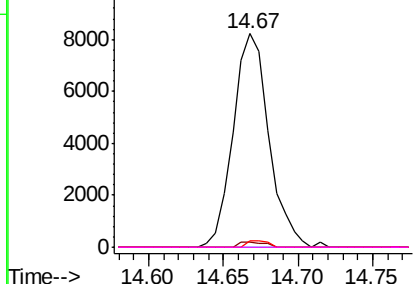
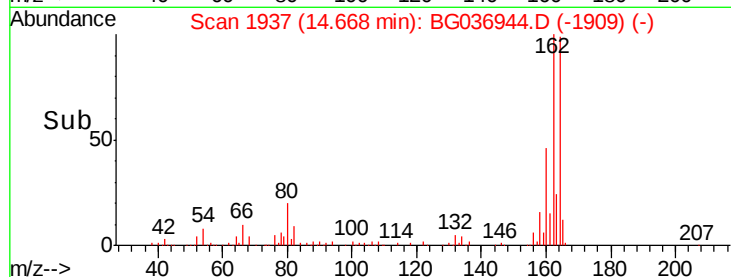
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

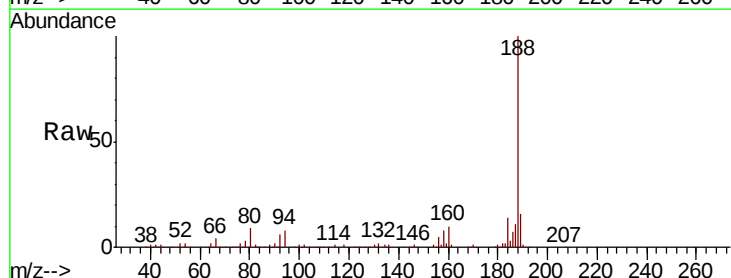
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.41 min Scan# 2404  
Delta R.T. -0.01 min  
Lab File: BG036944.D  
Acq: 25 Sep 2018 8:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.3   | 6.7   | 10.1  |
| 80      | 9.2   | 8.1   | 12.1  |

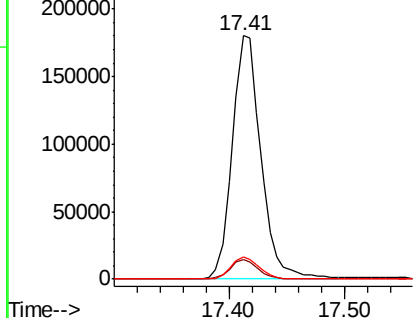
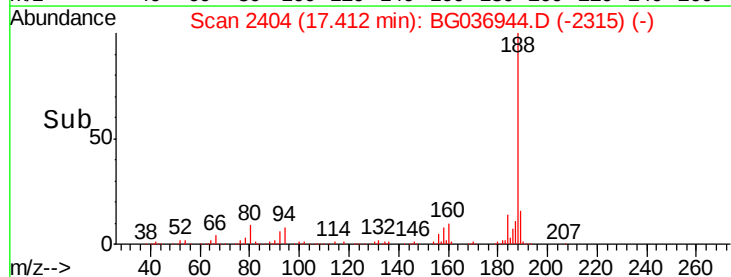


Abundance

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

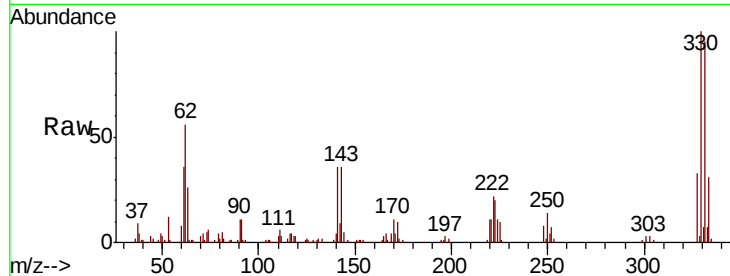




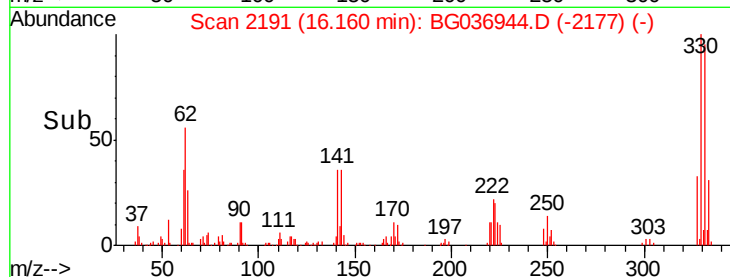
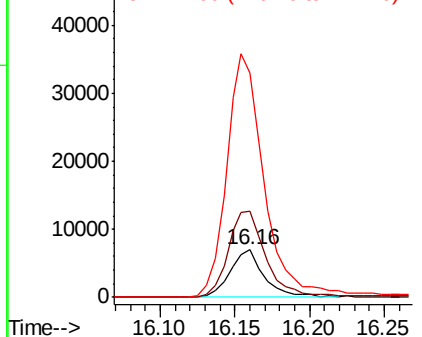
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.135 ng  
 RT: 16.16 min Scan# 2191  
 Delta R.T. -0.45 min  
 Lab File: BG036944.D  
 Acq: 25 Sep 2018 8:46

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:248 Resp: 11074  
 Ion Ratio Lower Upper  
 248 100  
 250 180.6 78.1 117.1#  
 141 470.0 53.7 80.5#

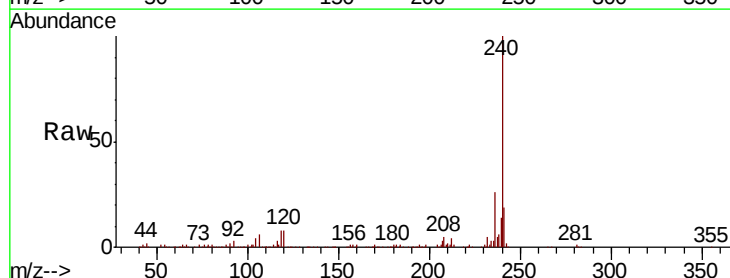


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

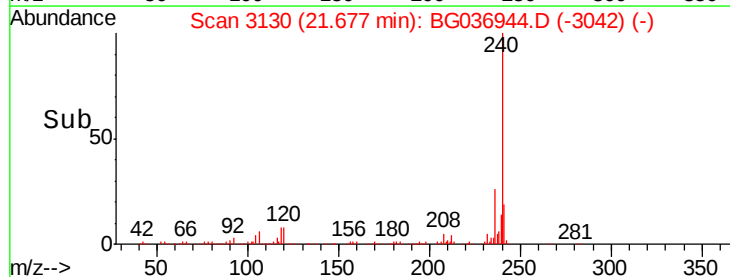
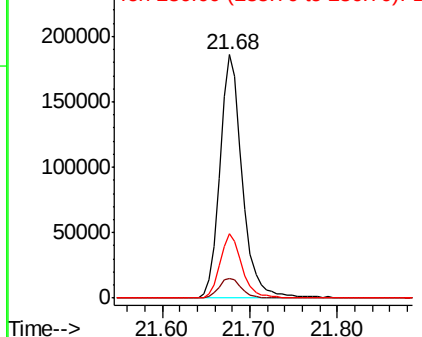


#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.68 min Scan# 3130  
 Delta R.T. -0.01 min  
 Lab File: BG036944.D  
 Acq: 25 Sep 2018 8:46

Tgt Ion:240 Resp: 329395  
 Ion Ratio Lower Upper  
 240 100  
 120 8.2 6.9 10.3  
 236 26.4 21.2 31.8



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: 2.084 ng

RT: 20.02 min Scan# 2848

Delta R.T. 0.37 min

Lab File: BG036944.D

Acq: 25 Sep 2018 8:46

Instrument :

BNA\_G

ClientSampleId :

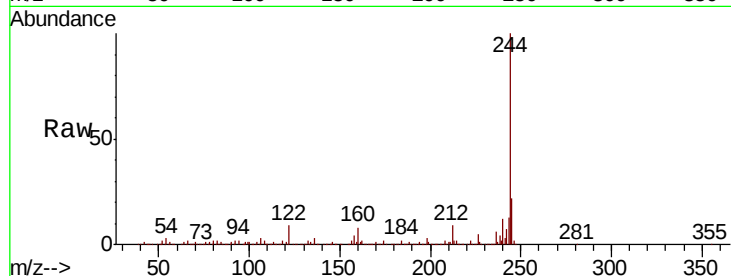
Tot Ion:184 Resp: 20753

Ion Ratio Lower Upper

184 100

185 16.8 12.6 18.8

183 9.4 10.9 16.3#

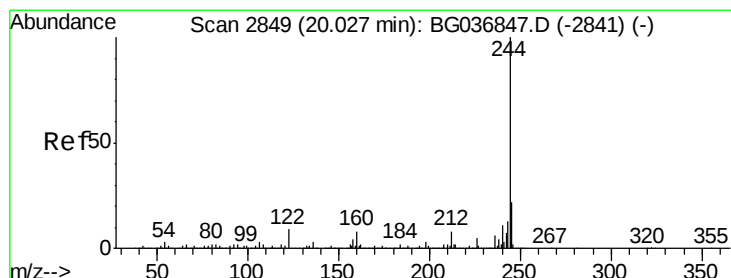
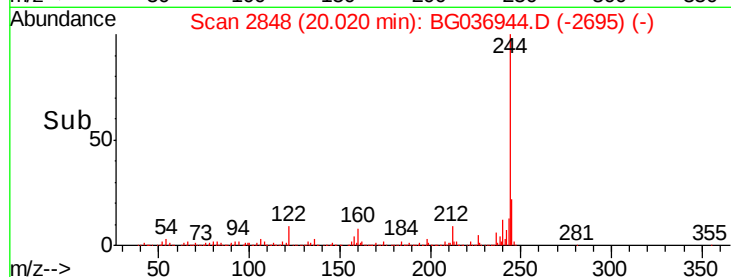
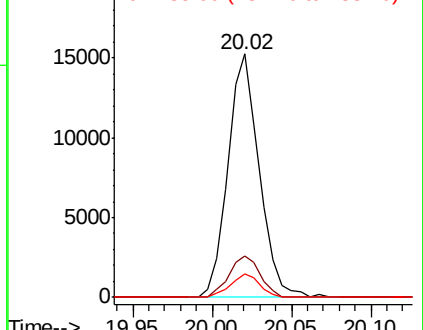


Abundance

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



#78

Terphenyl-d14

Concen: 95.719 ng

RT: 20.02 min Scan# 2848

Delta R.T. -0.01 min

Lab File: BG036944.D

Acq: 25 Sep 2018 8:46

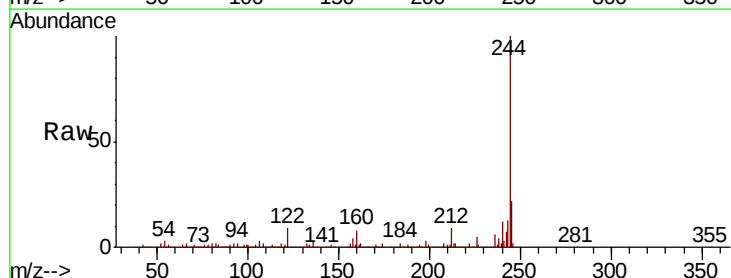
Tgt Ion:244 Resp: 1199069

Ion Ratio Lower Upper

244 100

212 8.7 7.0 10.6

122 9.4 7.1 10.7

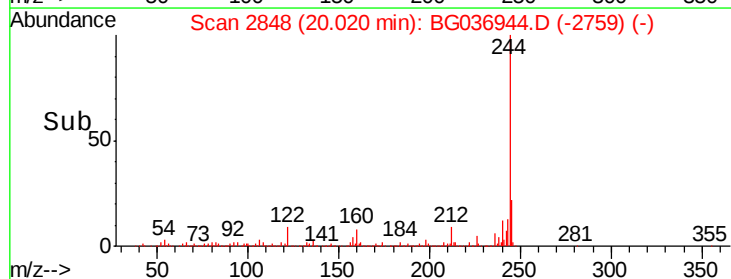
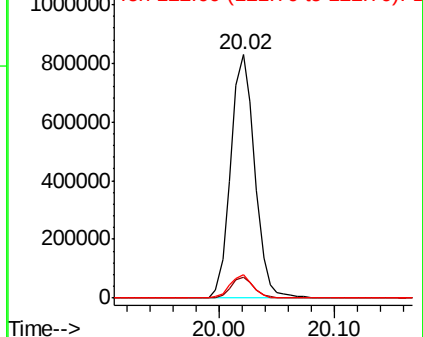


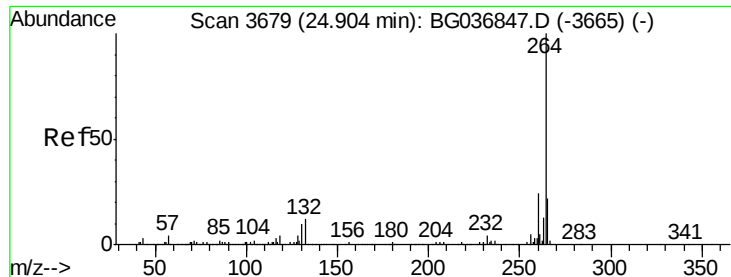
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.89 min Scan# 3676  
Delta R.T. -0.02 min  
Lab File: BG036944.D  
Acq: 25 Sep 2018 8:46

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.9  | 19.6  | 29.4  |
| 265     | 21.6  | 17.4  | 26.0  |

