

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG031119\  
 Data File : BG039860.D  
 Acq On : 12 Mar 2019 4:20  
 Operator : JU/SJ  
 Sample : K1693-04  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-01-030719-B

Quant Time: Mar 12 09:33:29 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG030419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 04 14:38:15 2019  
 Response via : Initial Calibration

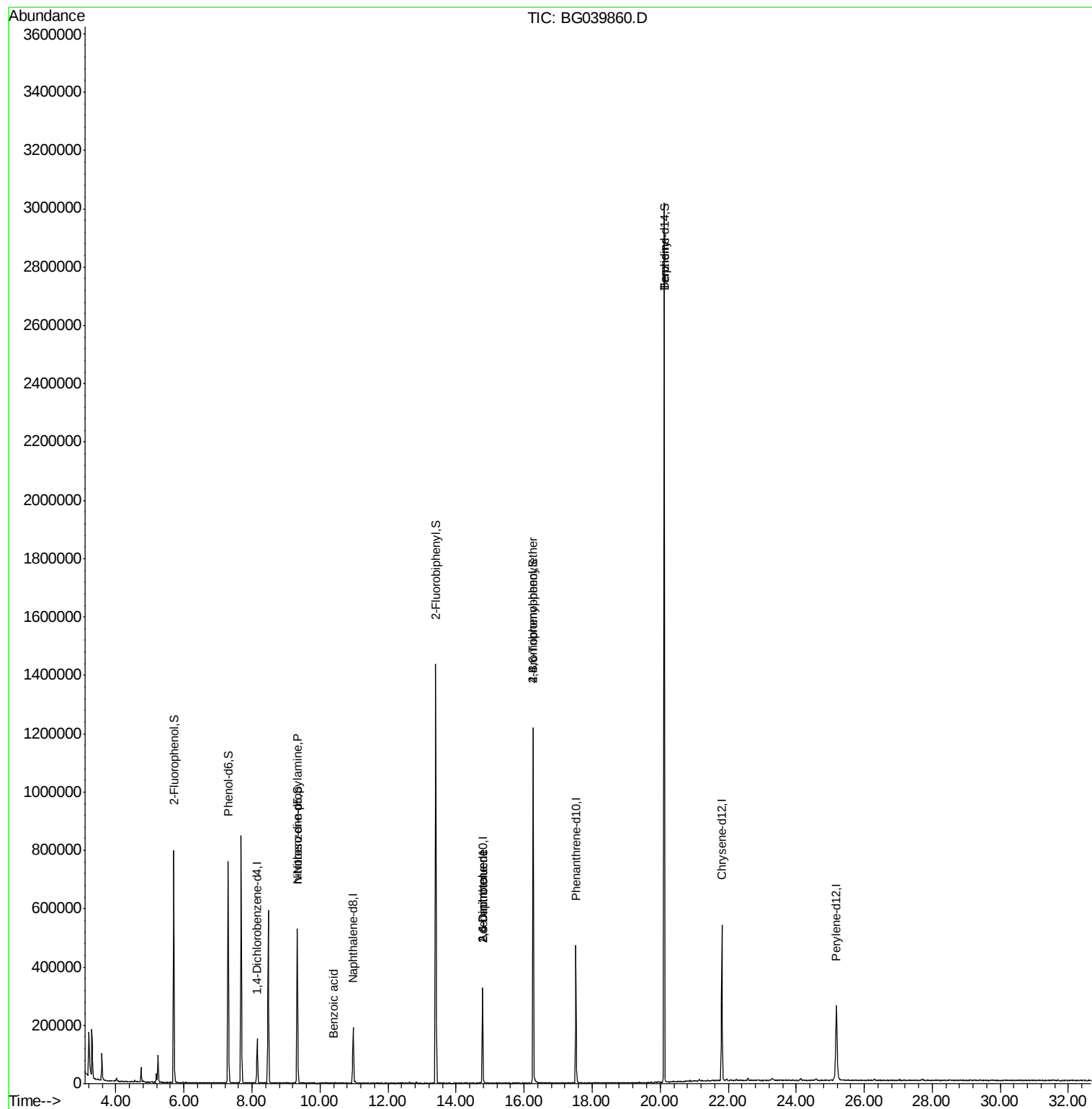
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.15  | 152  | 41681    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.98 | 136  | 168747   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 14.78 | 164  | 116572   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 17.52 | 188  | 300527   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 21.81 | 240  | 330786   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 25.18 | 264  | 318260   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.70  | 112  | 336616   | 137.78 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.30  | 99   | 437779   | 120.17 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.33  | 82   | 317558   | 101.78 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.26 | 330  | 214290   | 157.71 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.40 | 172  | 770844   | 94.15  | ng    | -0.01    |
| 79) Terphenyl-d14              | 20.12 | 244  | 1396019  | 92.92  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.33  | 70   | 41554    | 15.848 | ng    | # 66     |
| 32) Benzoic acid               | 10.40 | 122  | 58       | 6.628  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene         | 14.78 | 165  | 15146    | 7.329  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene         | 14.78 | 165  | 15146    | 5.216  | ng    | # 18     |
| 67) 4-Bromophenyl-phenylether  | 16.27 | 248  | 16648    | 4.949  | ng    | # 1      |
| 77) Benzidine                  | 20.12 | 184  | 24233    | 2.309  | ng    | # 91     |

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

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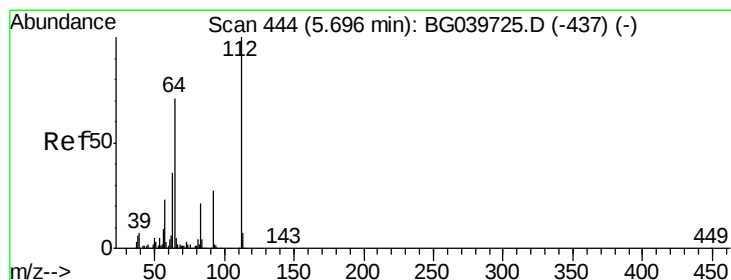
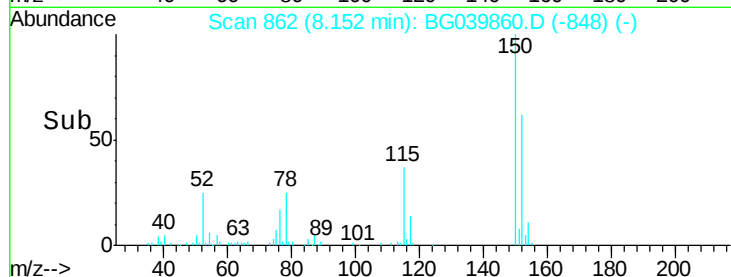
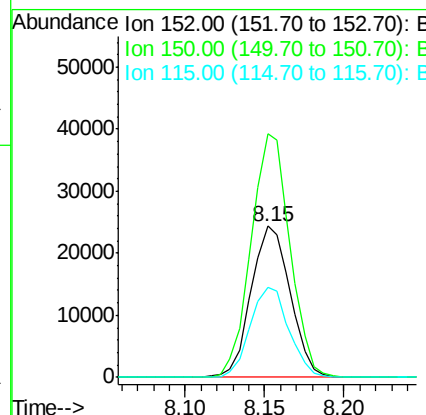
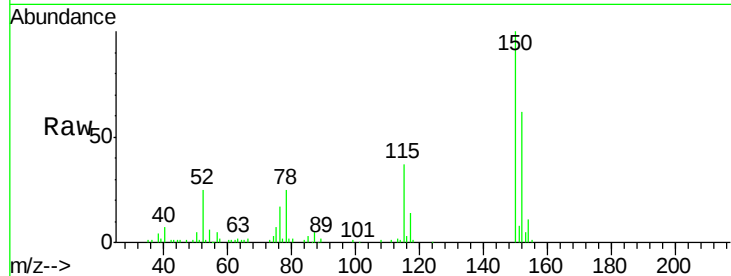


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.15 min Scan# 862  
Delta R.T. -0.02 min  
Lab File: BG039860.D  
Acq: 12 Mar 2019 4:20

Instrument :  
BNA\_G  
ClientSampleId :  
OR-01-030719-B

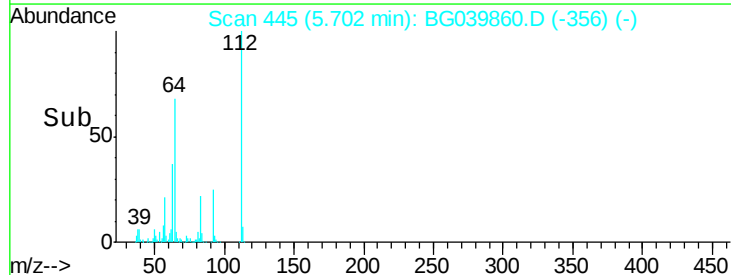
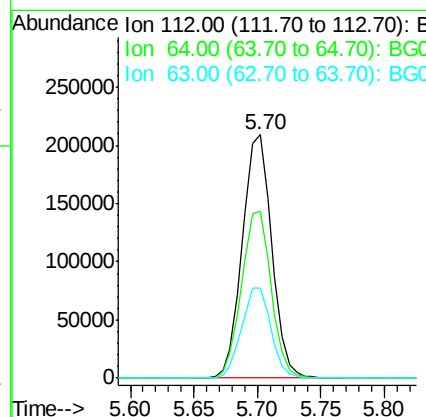
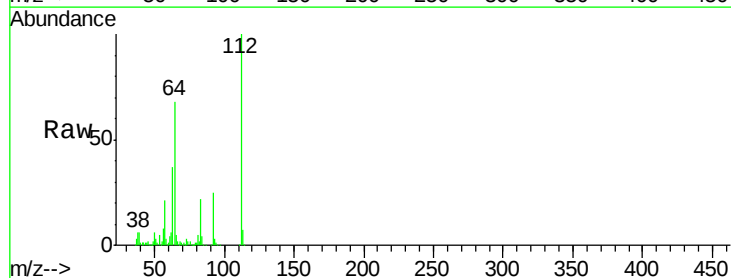
Tgt Ion:152 Resp: 41681  
Ion Ratio Lower Upper  
152 100  
150 161.3 123.7 185.5  
115 59.4 45.9 68.9

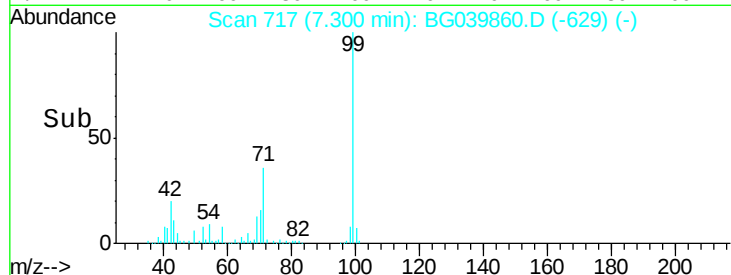
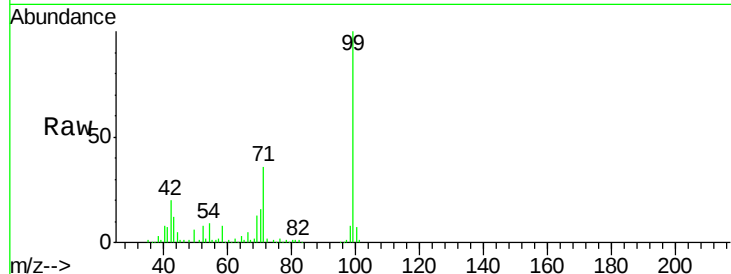


#5

2-Fluorophenol  
Concen: 137.777 ng  
RT: 5.70 min Scan# 445  
Delta R.T. -0.01 min  
Lab File: BG039860.D  
Acq: 12 Mar 2019 4:20

Tgt Ion:112 Resp: 336616  
Ion Ratio Lower Upper  
112 100  
64 68.5 57.8 86.8  
63 37.1 29.8 44.6





#7

Phenol-d6

Concen: 120.172 ng

RT: 7.30 min Scan# 717

Delta R.T. -0.01 min

Lab File: BG039860.D

Acq: 12 Mar 2019 4:20

Instrument :

BNA\_G

ClientSampleId :

OR-01-030719-B

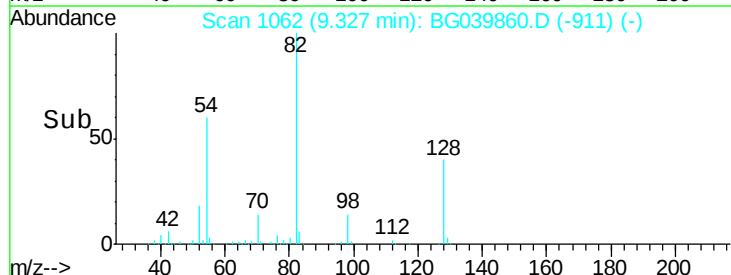
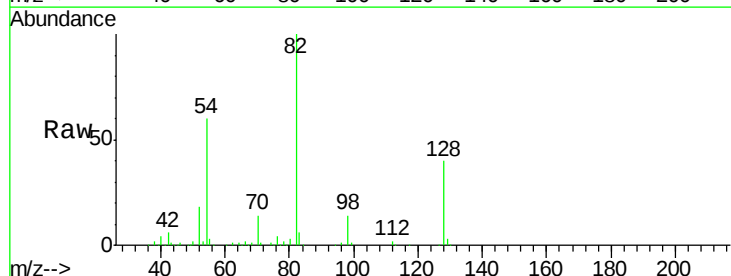
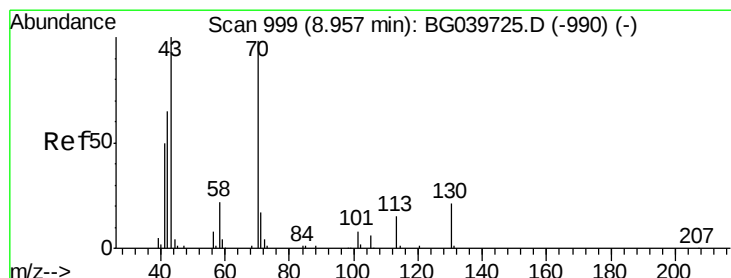
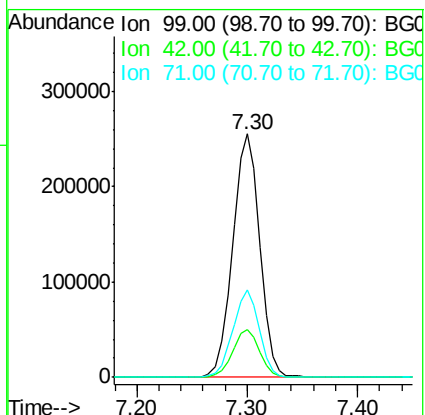
Tgt Ion: 99 Resp: 437779

Ion Ratio Lower Upper

99 100

42 19.8 18.2 27.2

71 35.8 28.0 42.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.848 ng

RT: 9.33 min Scan# 1062

Delta R.T. 0.36 min

Lab File: BG039860.D

Acq: 12 Mar 2019 4:20

Tgt Ion: 70 Resp: 41554

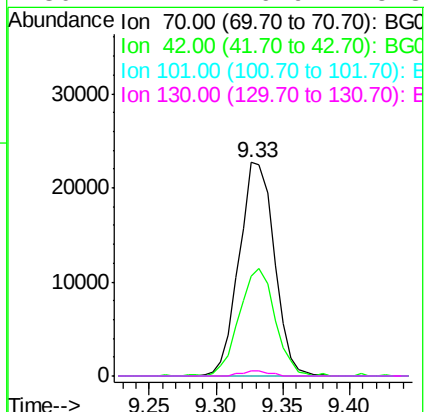
Ion Ratio Lower Upper

70 100

42 46.7 60.4 90.6#

101 0.0 7.5 11.3#

130 2.1 16.9 25.3#

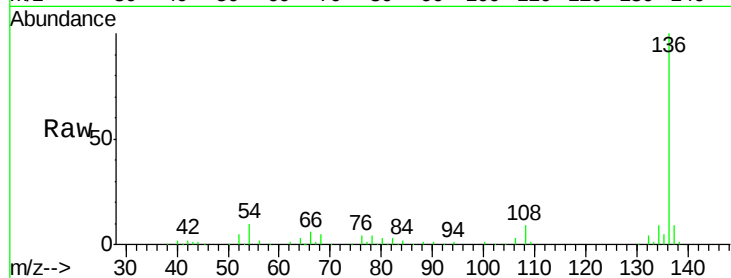




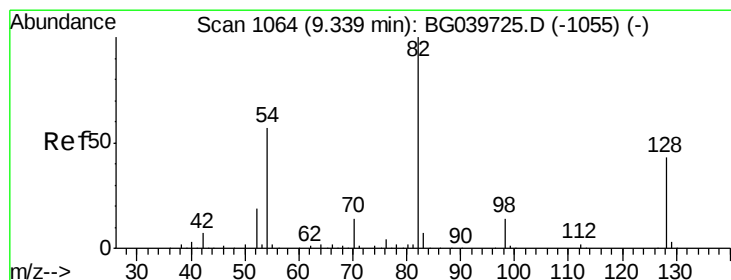
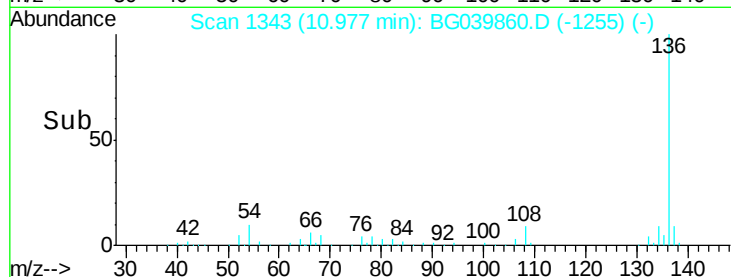
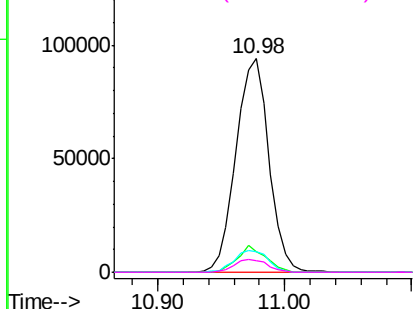
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.98 min Scan# 1343  
Delta R.T. -0.01 min  
Lab File: BG039860.D  
Acq: 12 Mar 2019 4:20

Instrument :  
BNA\_G  
ClientSampleId :  
OR-01-030719-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 168747 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 9.4   | 9.1   | 13.7   |
| 54       | 9.6   | 9.4   | 14.2   |
| 68       | 5.3   | 4.2   | 6.4    |

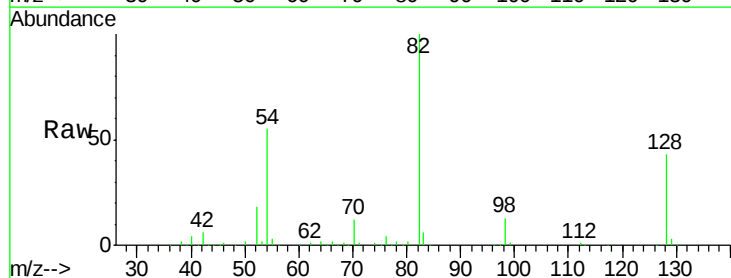


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

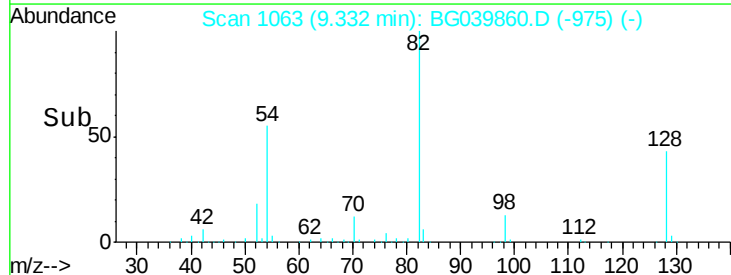
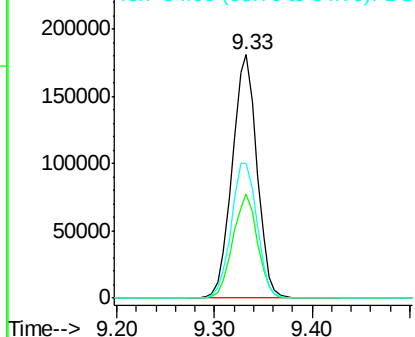


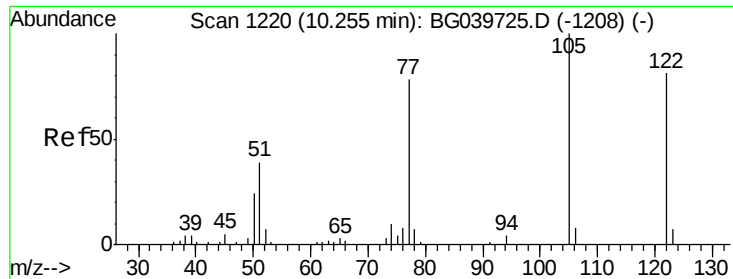
#23  
Nitrobenzene-d5  
Concen: 101.779 ng  
RT: 9.33 min Scan# 1063  
Delta R.T. -0.01 min  
Lab File: BG039860.D  
Acq: 12 Mar 2019 4:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 317558 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.9  | 31.3  | 46.9   |
| 54       | 55.3  | 50.9  | 76.3   |



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





#32

Benzoic acid

Concen: 6.628 ng

RT: 10.40 min Scan# 1244

Delta R.T. 0.13 min

Lab File: BG039860.D

Acq: 12 Mar 2019 4:20

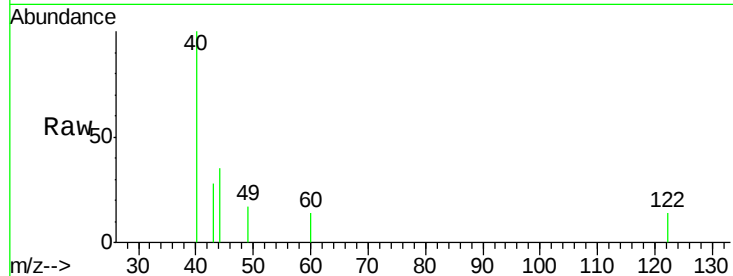
Instrument :

BNA\_G

ClientSampleId :

OR-01-030719-B

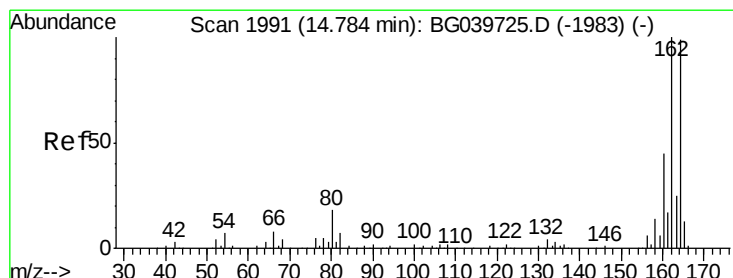
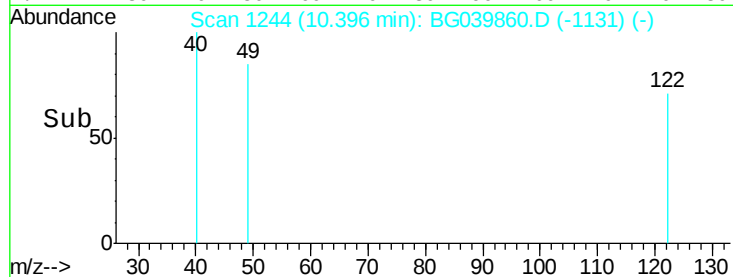
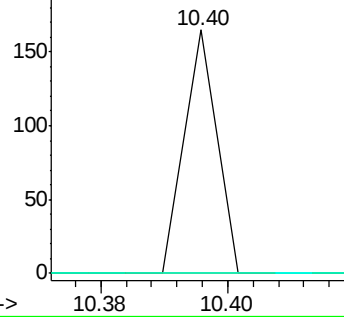
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 101.8 | 141.8# |
| 77      | 0.0   | 76.3  | 116.3# |



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC



#39

Acenaphthene-d10

Concen: 20.000 ng

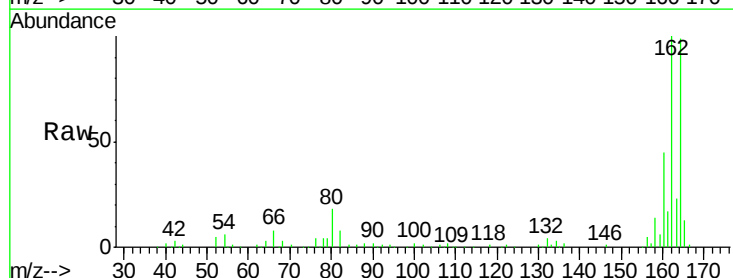
RT: 14.78 min Scan# 1990

Delta R.T. -0.01 min

Lab File: BG039860.D

Acq: 12 Mar 2019 4:20

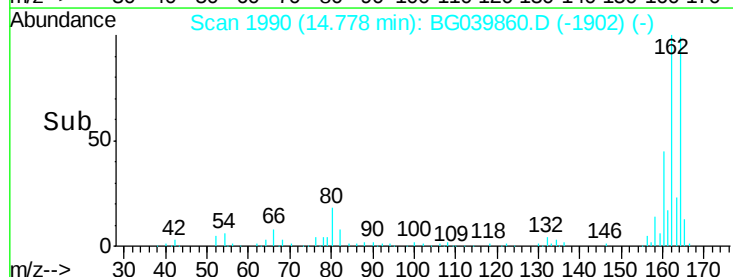
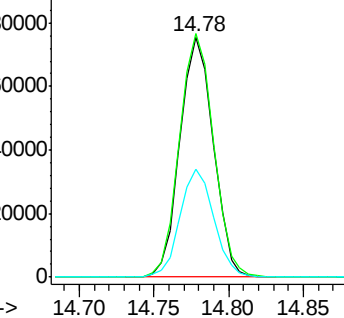
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.4 | 81.6  | 122.4 |
| 160     | 45.2  | 34.2  | 51.2  |

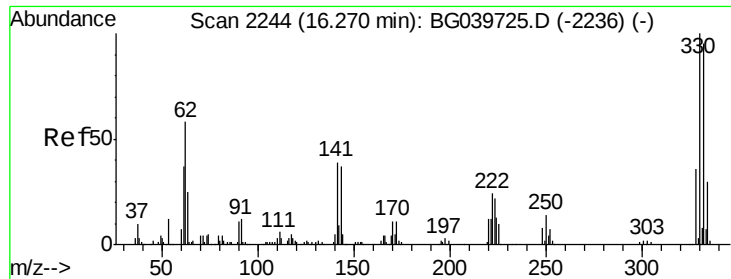


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

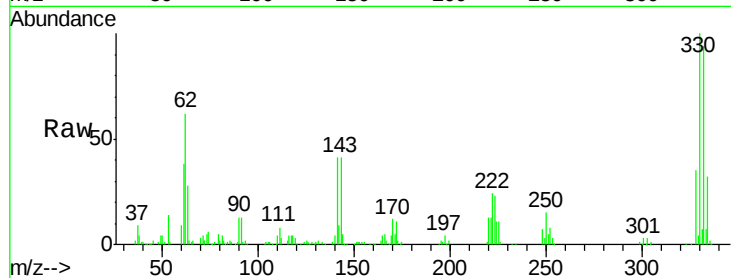




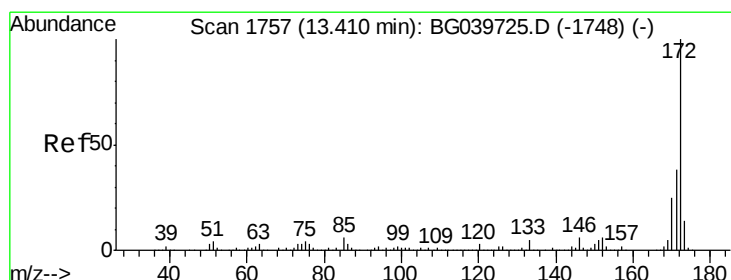
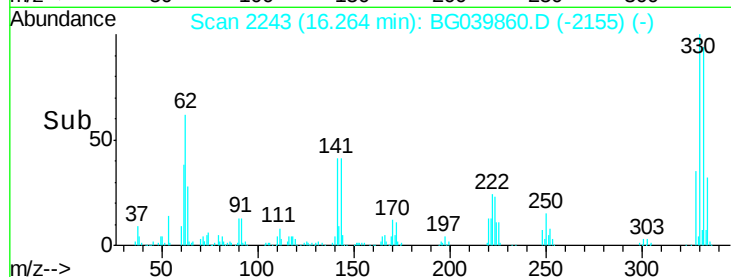
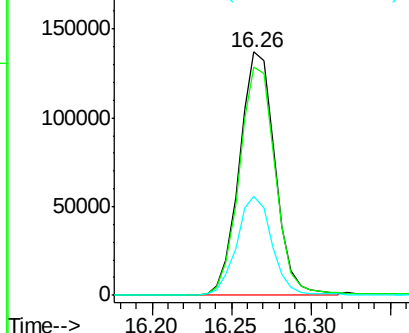
#42  
 2,4,6-Tribromophenol  
 Concen: 157.713 ng  
 RT: 16.26 min Scan# 2243  
 Delta R.T. -0.01 min  
 Lab File: BG039860.D  
 Acq: 12 Mar 2019 4:20

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-01-030719-B

Tgt Ion:330 Resp: 214290  
 Ion Ratio Lower Upper  
 330 100  
 332 95.5 75.7 113.5  
 141 41.1 35.6 53.4

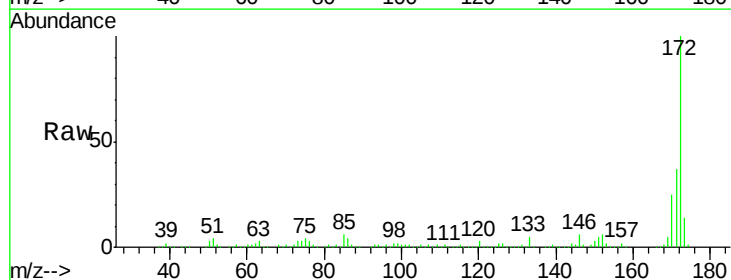


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

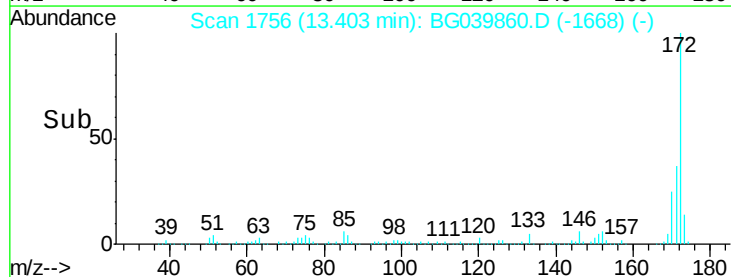
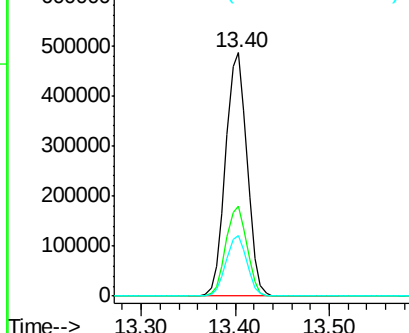


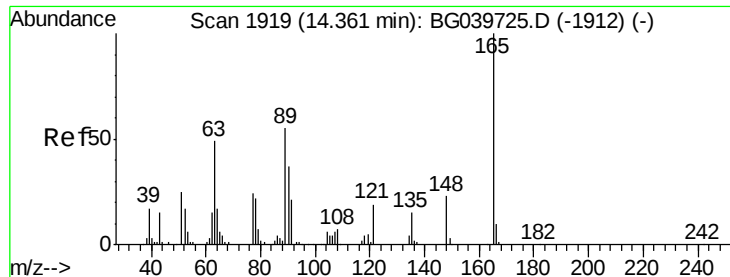
#45  
 2-Fluorobiphenyl  
 Concen: 94.152 ng  
 RT: 13.40 min Scan# 1756  
 Delta R.T. -0.01 min  
 Lab File: BG039860.D  
 Acq: 12 Mar 2019 4:20

Tgt Ion:172 Resp: 770844  
 Ion Ratio Lower Upper  
 172 100  
 171 36.8 30.8 46.2  
 170 24.6 20.2 30.4



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

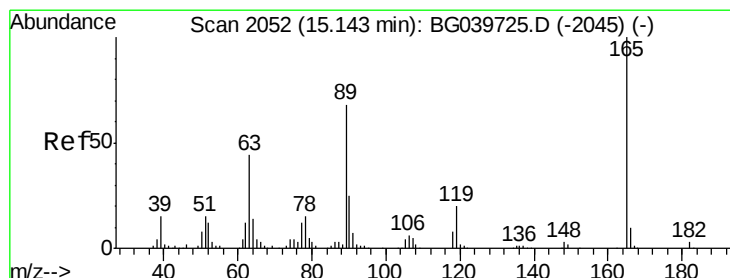
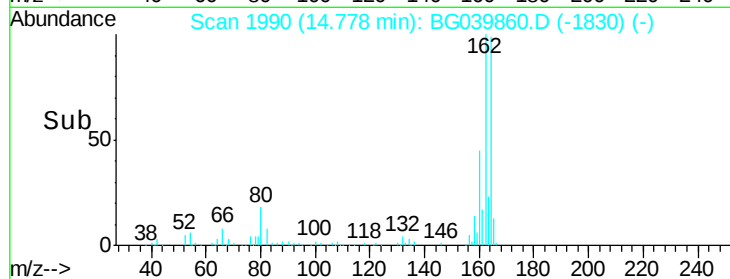
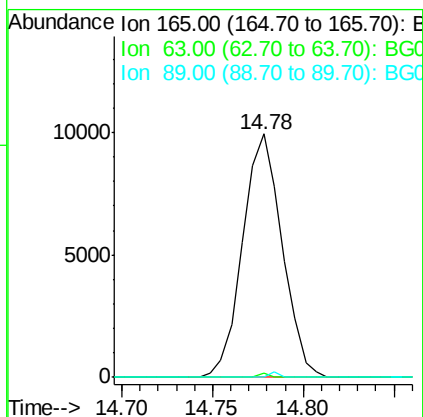
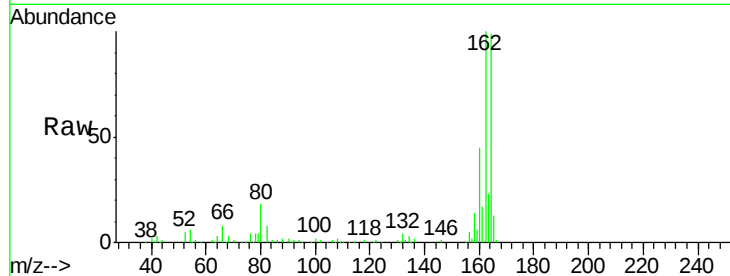




#51  
 2,6-Dinitrotoluene  
 Concen: 7.329 ng  
 RT: 14.78 min Scan# 1990  
 Delta R.T. 0.41 min  
 Lab File: BG039860.D  
 Acq: 12 Mar 2019 4:20

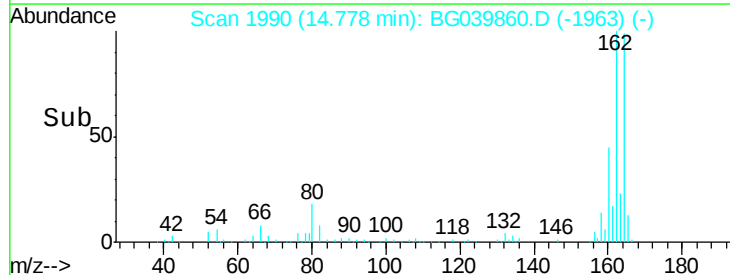
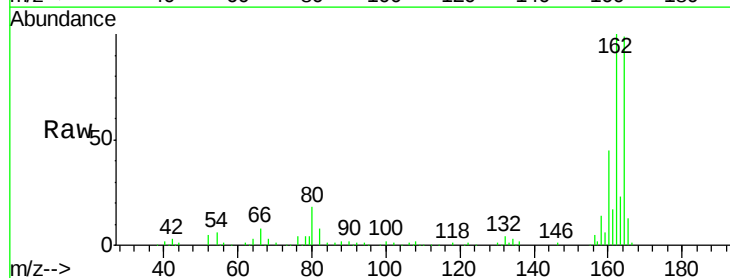
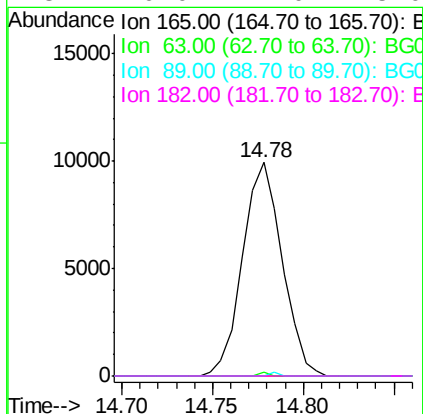
Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-01-030719-B

Tgt Ion:165 Resp: 15146  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 47.0 70.6#  
 89 0.0 45.8 68.8#



#57  
 2,4-Dinitrotoluene  
 Concen: 5.216 ng  
 RT: 14.78 min Scan# 1990  
 Delta R.T. -0.37 min  
 Lab File: BG039860.D  
 Acq: 12 Mar 2019 4:20

Tgt Ion:165 Resp: 15146  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 41.0 61.6#  
 89 0.0 64.6 96.8#  
 182 0.0 2.0 3.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.52 min Scan# 2457

Delta R.T. -0.01 min

Lab File: BG039860.D

Acq: 12 Mar 2019 4:20

Instrument :

BNA\_G

ClientSampleId :

OR-01-030719-B

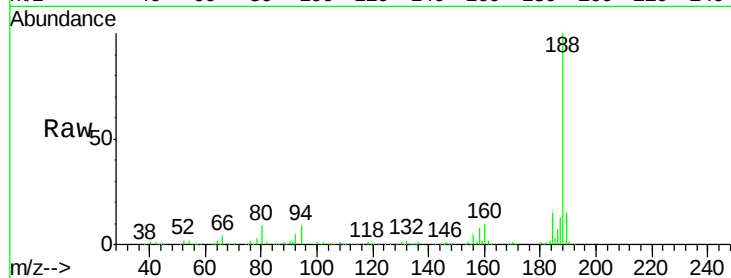
Tgt Ion:188 Resp: 300527

Ion Ratio Lower Upper

188 100

94 8.5 6.9 10.3

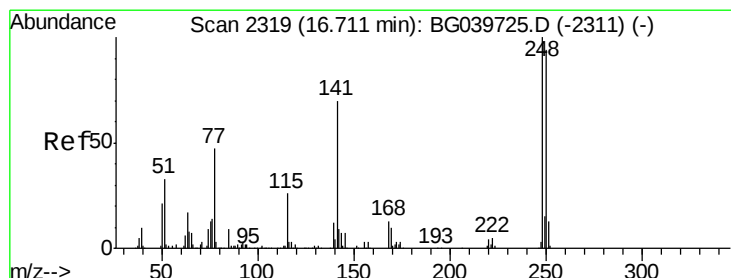
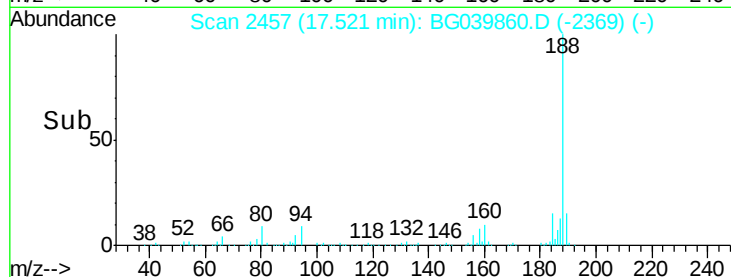
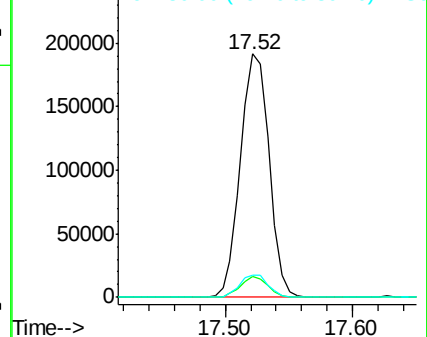
80 9.2 8.1 12.1



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



#67

4-Bromophenyl-phenylether

Concen: 4.949 ng

RT: 16.27 min Scan# 2244

Delta R.T. -0.45 min

Lab File: BG039860.D

Acq: 12 Mar 2019 4:20

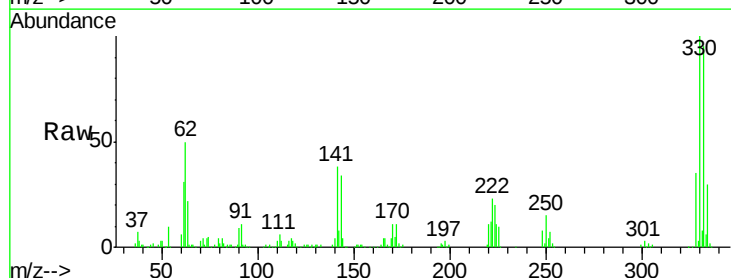
Tgt Ion:248 Resp: 16648

Ion Ratio Lower Upper

248 100

250 193.1 77.6 116.4#

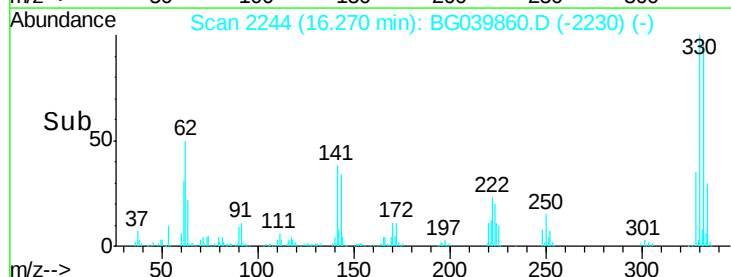
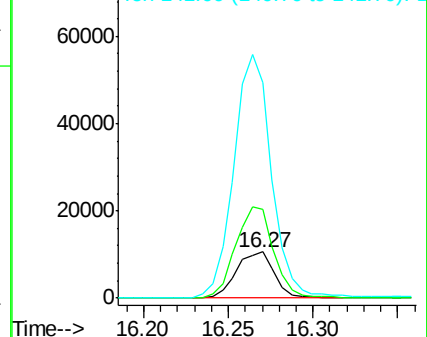
141 467.6 63.9 95.9#

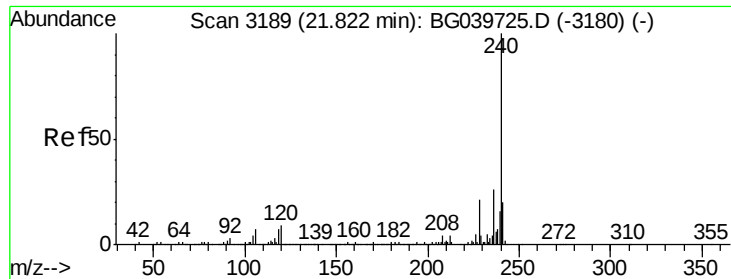


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

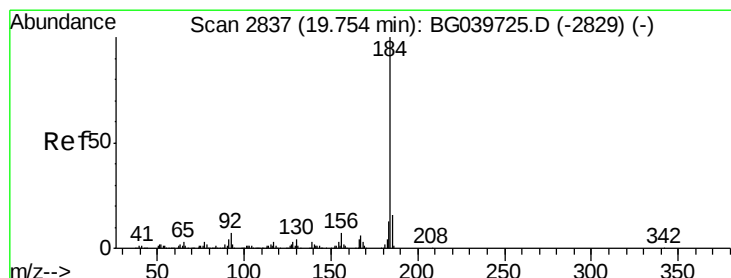
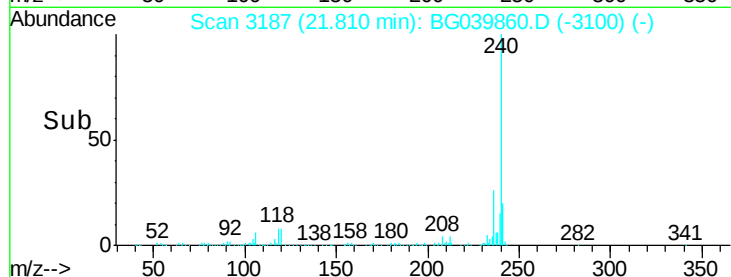
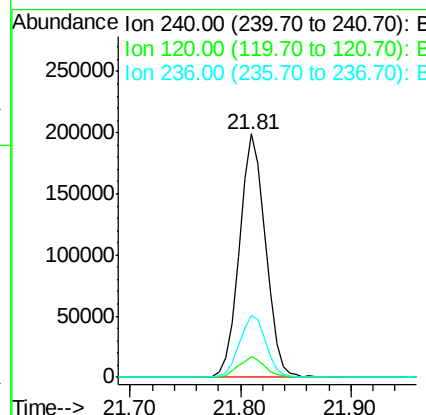
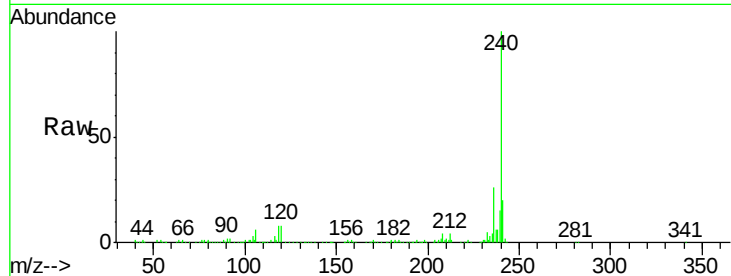




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.81 min Scan# 3187  
Delta R.T. -0.02 min  
Lab File: BG039860.D  
Acq: 12 Mar 2019 4:20

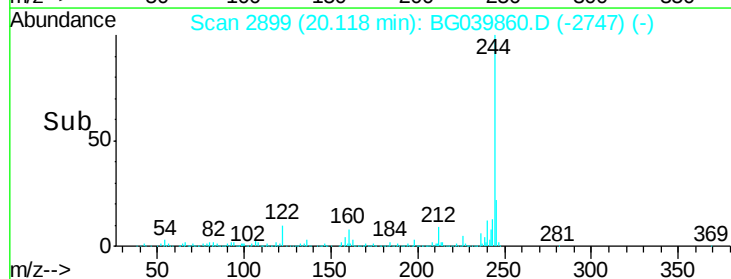
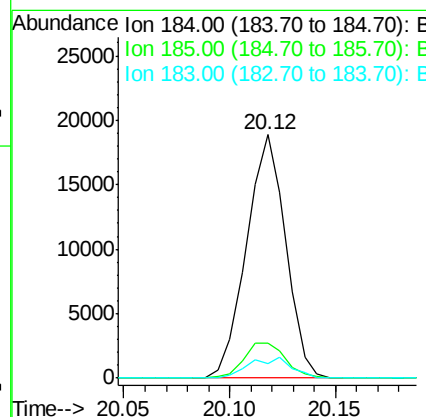
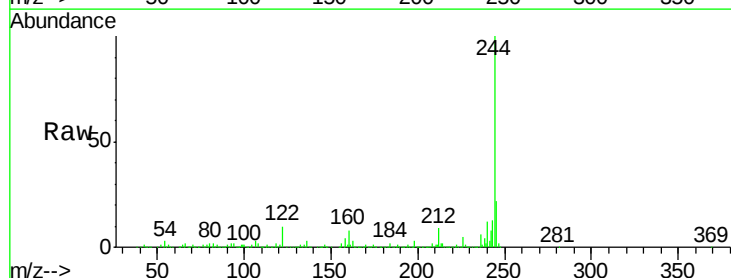
Instrument :  
BNA\_G  
ClientSampleId :  
OR-01-030719-B

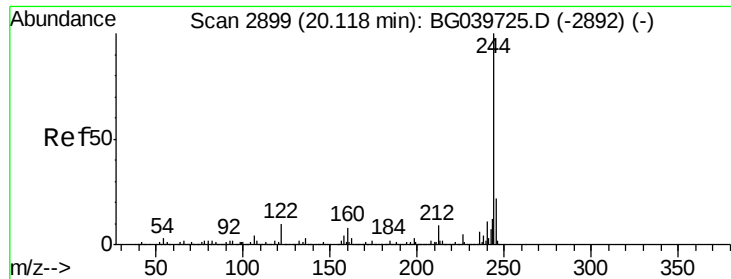
Tgt Ion:240 Resp: 330786  
Ion Ratio Lower Upper  
240 100  
120 8.4 7.0 10.6  
236 25.6 21.0 31.4



#77  
Benzidine  
Concen: 2.309 ng  
RT: 20.12 min Scan# 2899  
Delta R.T. 0.36 min  
Lab File: BG039860.D  
Acq: 12 Mar 2019 4:20

Tgt Ion:184 Resp: 24233  
Ion Ratio Lower Upper  
184 100  
185 14.5 12.2 18.2  
183 6.2 10.6 15.8#





#79

Terphenyl-d14

Concen: 92.923 ng

RT: 20.12 min Scan# 2899

Delta R.T. -0.01 min

Lab File: BG039860.D

Acq: 12 Mar 2019 4:20

Instrument :

BNA\_G

ClientSampleId :

OR-01-030719-B

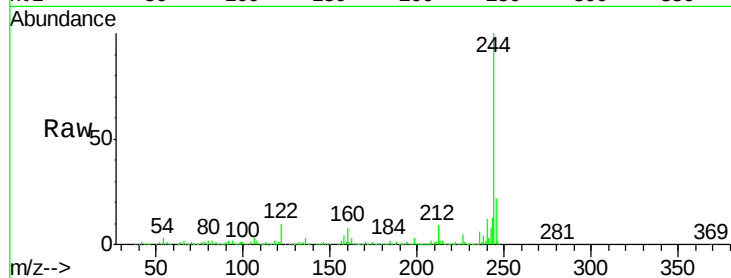
Tgt Ion:244 Resp: 1396019

Ion Ratio Lower Upper

244 100

212 9.4 7.3 10.9

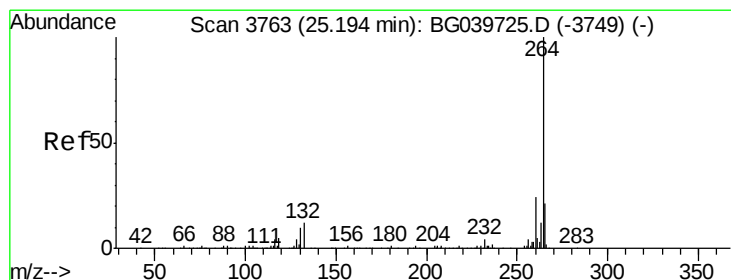
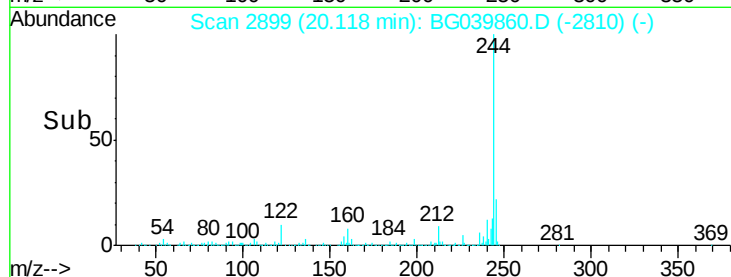
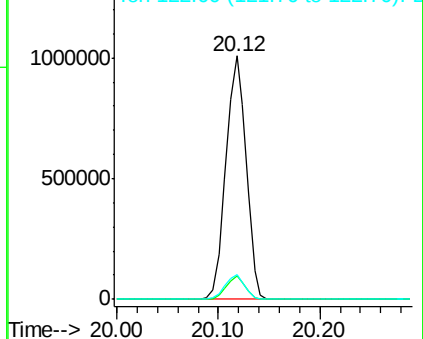
122 9.9 8.4 12.6



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.18 min Scan# 3761

Delta R.T. -0.02 min

Lab File: BG039860.D

Acq: 12 Mar 2019 4:20

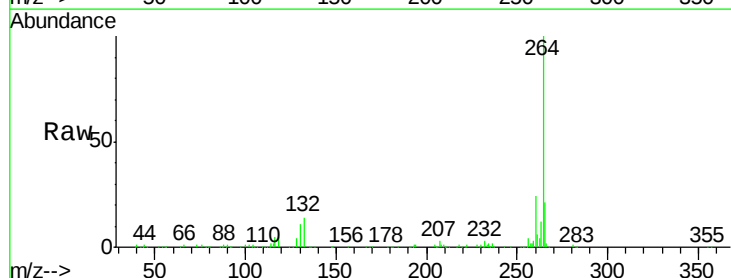
Tgt Ion:264 Resp: 318260

Ion Ratio Lower Upper

264 100

260 24.5 18.2 27.4

265 21.1 18.5 27.7



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

