

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG030419\  
 Data File : BG039759.D  
 Acq On : 5 Mar 2019 10:10  
 Operator : JU/SJ  
 Sample : K1688-02  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 05 11:08:24 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

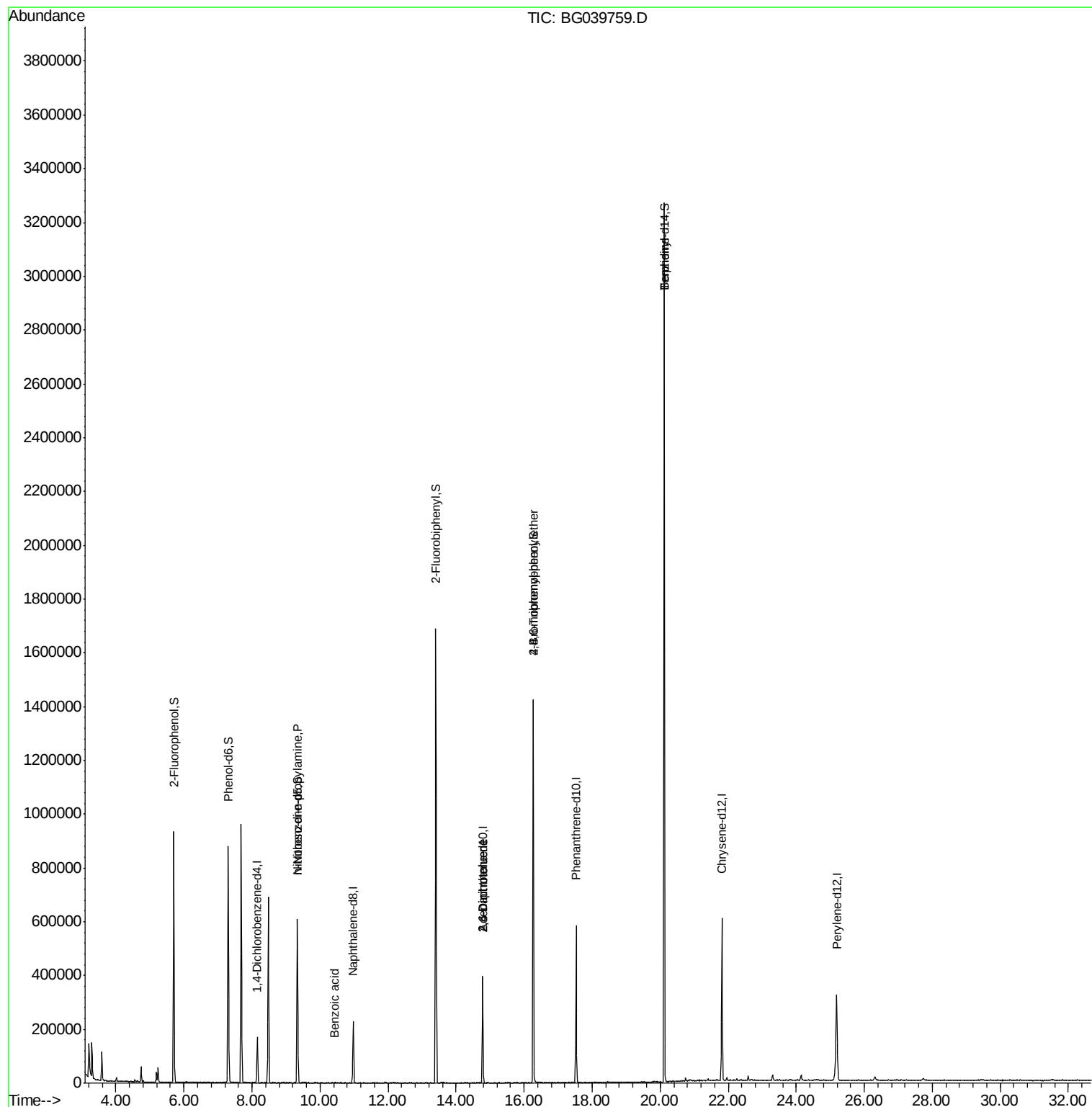
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.16  | 152  | 47734    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.98 | 136  | 198932   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 14.78 | 164  | 140347   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.53 | 188  | 353930   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.82 | 240  | 368975   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 25.19 | 264  | 375744   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.70  | 112  | 382358   | 136.65 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.30  | 99   | 507623   | 121.67 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.33  | 82   | 363992   | 98.96  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.27 | 330  | 249304   | 152.40 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.40 | 172  | 891764   | 90.47  | ng    | -0.01    |
| 79) Terphenyl-d14              | 20.12 | 244  | 1555619  | 92.83  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.33  | 70   | 48273    | 16.076 | ng    | # 72     |
| 32) Benzoic acid               | 10.44 | 122  | 200      | 6.685  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene         | 14.78 | 165  | 17401    | 6.994  | ng    | # 26     |
| 57) 2,4-Dinitrotoluene         | 14.78 | 165  | 17401    | 4.978  | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether  | 16.26 | 248  | 20804    | 5.251  | ng    | # 1      |
| 77) Benzidine                  | 20.12 | 184  | 28071    | 2.397  | ng    | # 95     |

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

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BNA\_G  
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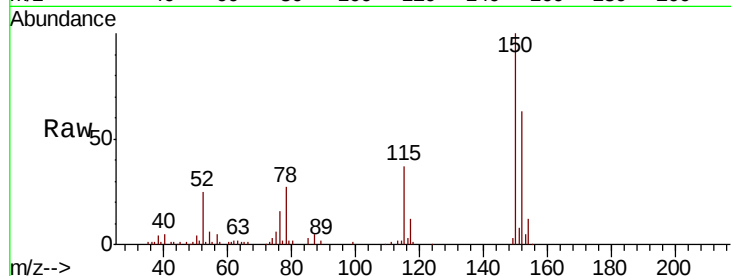


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.16 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: BG039759.D  
Acq: 5 Mar 2019 10:10

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.9 | 123.7 | 185.5 |
| 115     | 59.1  | 45.9  | 68.9  |

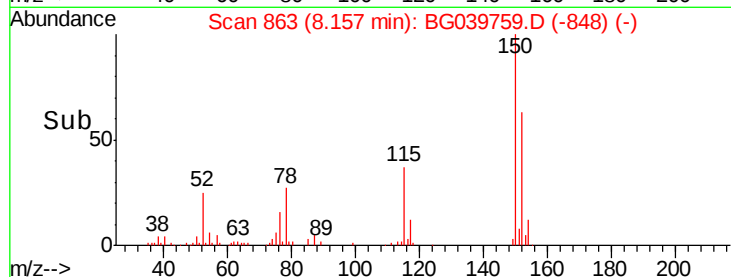
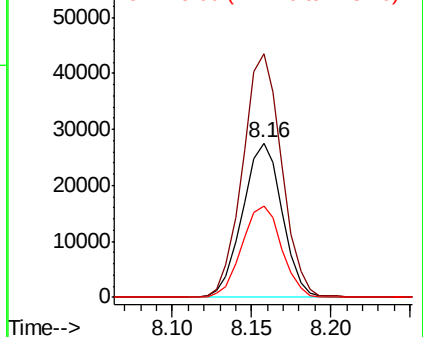


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

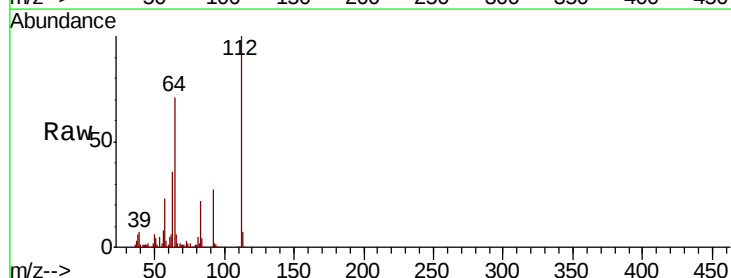
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 136.654 ng  
RT: 5.70 min Scan# 445  
Delta R.T. -0.01 min  
Lab File: BG039759.D  
Acq: 5 Mar 2019 10:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.6  | 57.8  | 86.8  |
| 63      | 35.8  | 29.8  | 44.6  |

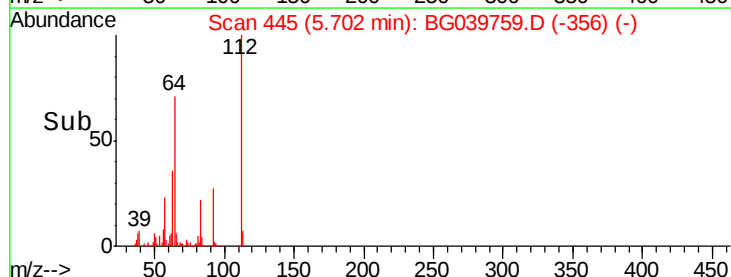
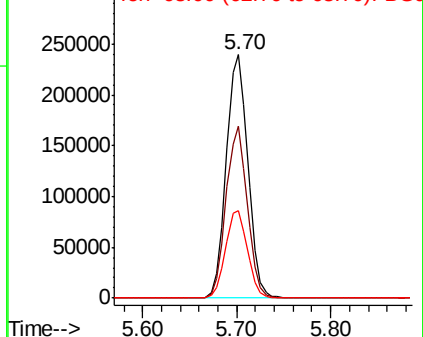


Abundance

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: 121.675 ng

RT: 7.30 min Scan# 717

Delta R.T. -0.01 min

Lab File: BG039759.D

Acq: 5 Mar 2019 10:10

Instrument :

BNA\_G

ClientSampled :

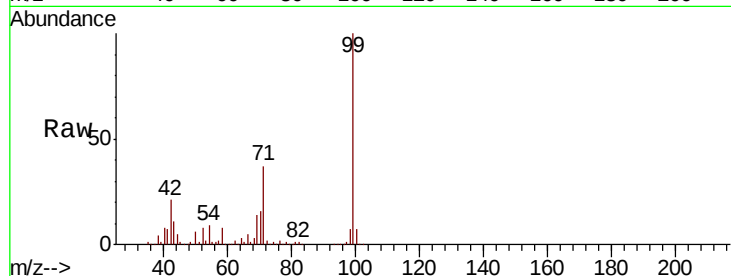
Tot Ion: 99 Resp: 507623

Ion Ratio Lower Upper

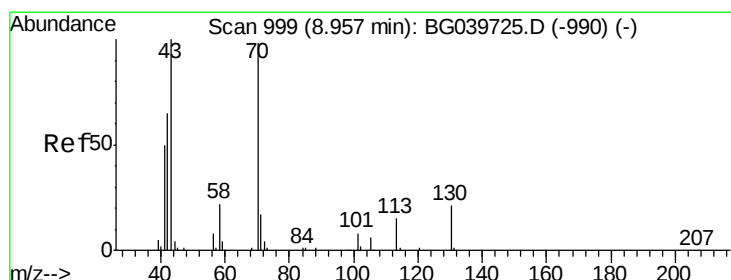
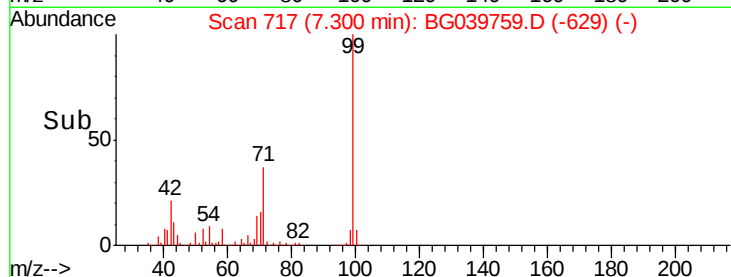
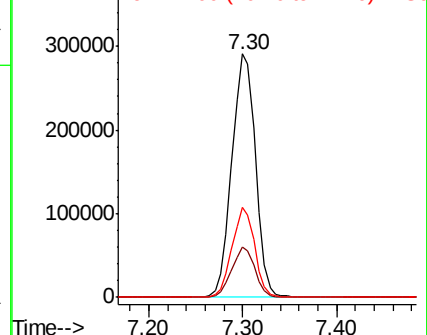
99 100

42 20.7 18.2 27.2

71 36.9 28.0 42.0



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: 16.076 ng

RT: 9.33 min Scan# 1063

Delta R.T. 0.36 min

Lab File: BG039759.D

Acq: 5 Mar 2019 10:10

Tgt Ion: 70 Resp: 48273

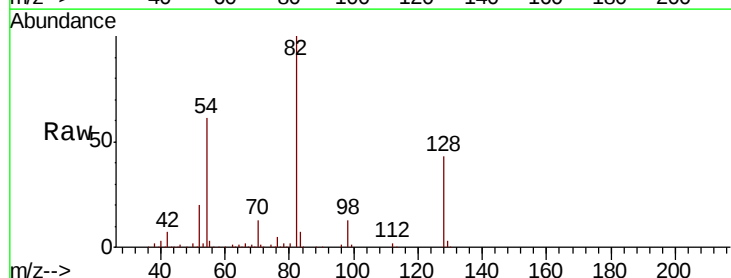
Ion Ratio Lower Upper

70 100

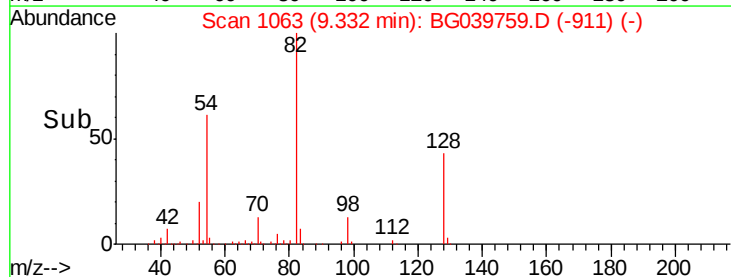
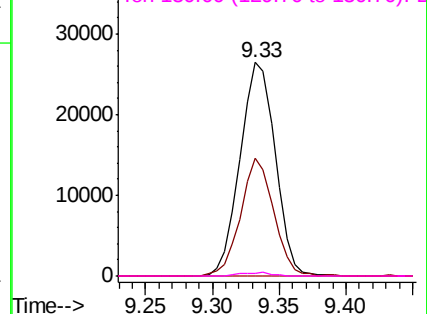
42 55.0 60.4 90.6#

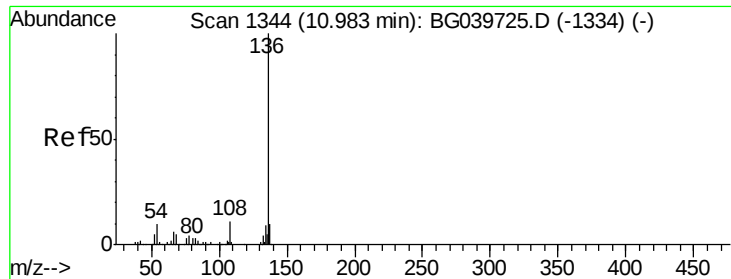
101 0.0 7.5 11.3#

130 1.3 16.9 25.3#



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

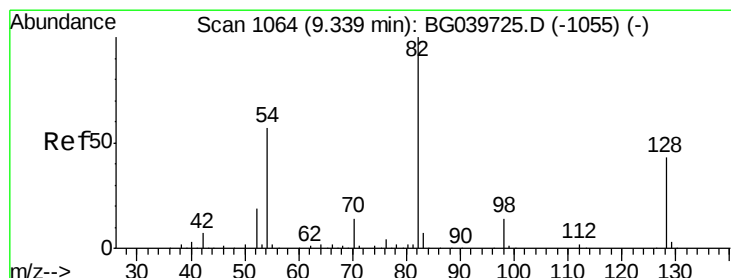
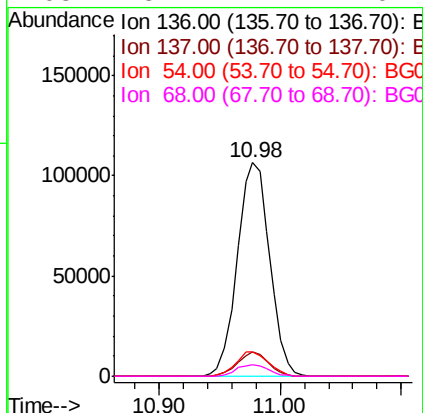
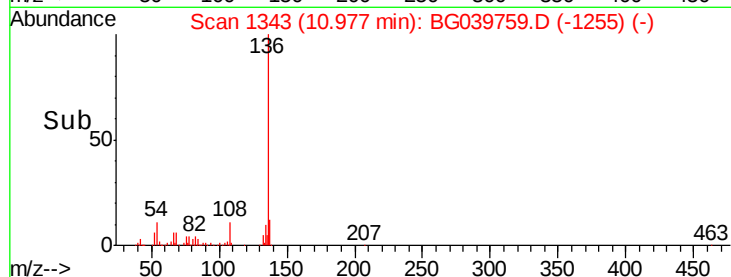
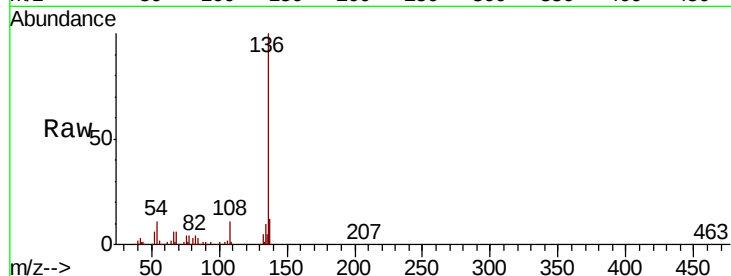




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.98 min Scan# 1343  
Delta R.T. -0.01 min  
Lab File: BG039759.D  
Acq: 5 Mar 2019 10:10

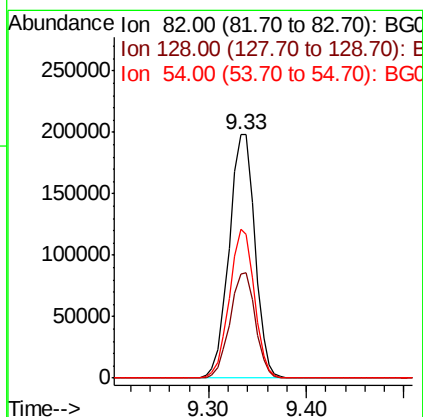
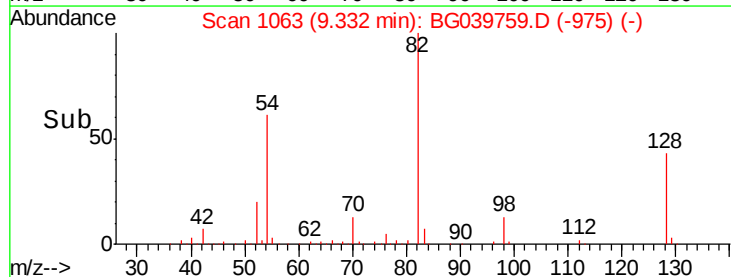
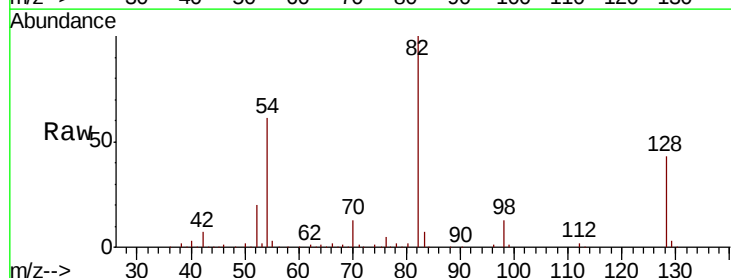
Instrument :  
BNA\_G  
ClientSampleId :

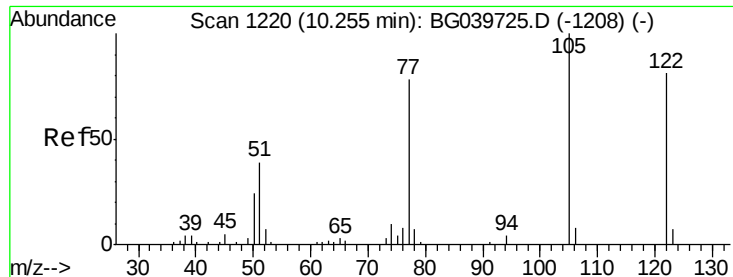
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 198932   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.5  | 9.1 13.7 |
| 54          | 11.5  | 9.4 14.2 |
| 68          | 5.7   | 4.2 6.4  |



#23  
Nitrobenzene-d5  
Concen: 98.959 ng  
RT: 9.33 min Scan# 1063  
Delta R.T. -0.01 min  
Lab File: BG039759.D  
Acq: 5 Mar 2019 10:10

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 363992    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 42.8  | 31.3 46.9 |
| 54          | 61.2  | 50.9 76.3 |





#32

Benzoic acid

Concen: 6.685 ng

RT: 10.44 min Scan# 1252

Delta R.T. 0.18 min

Lab File: BG039759.D

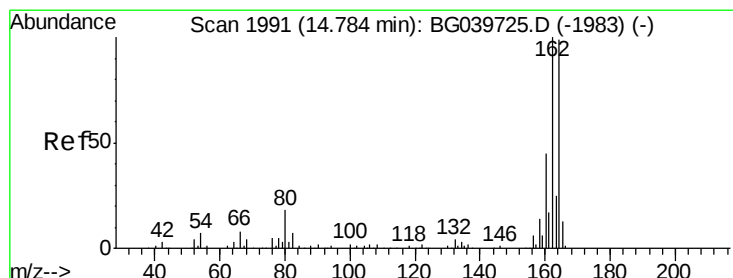
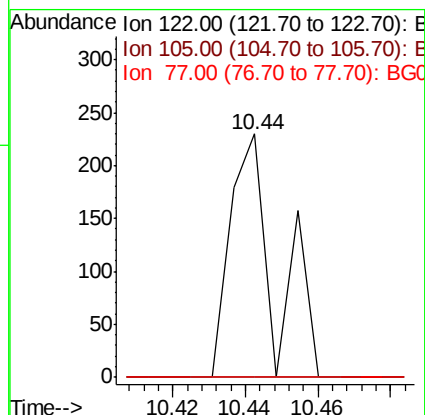
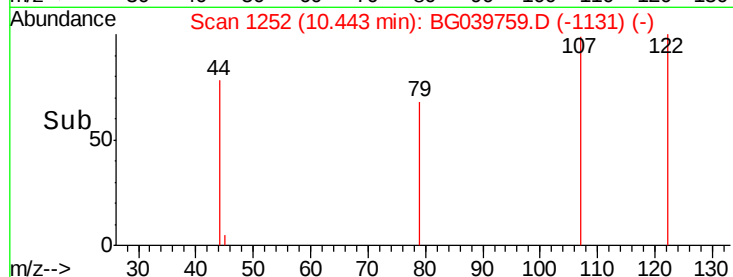
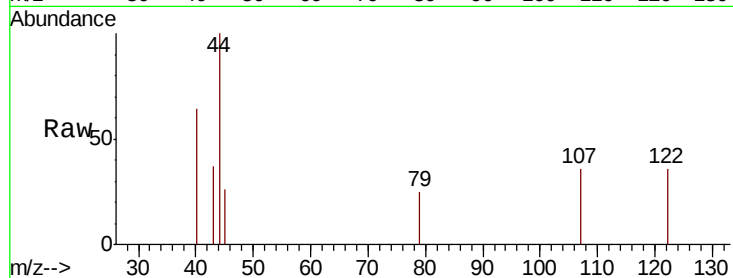
Acq: 5 Mar 2019 10:10

Instrument :

BNA\_G

ClientSampleId :

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



#39

Acenaphthene-d10

Concen: 20.000 ng

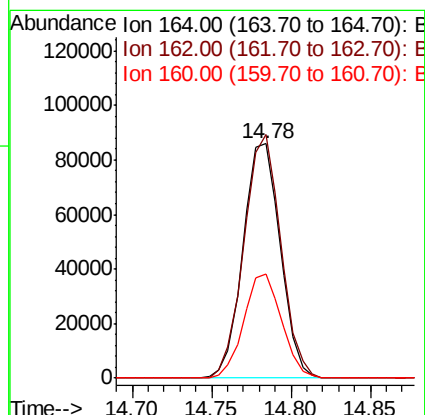
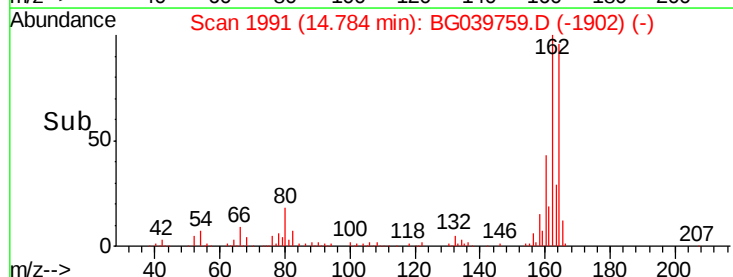
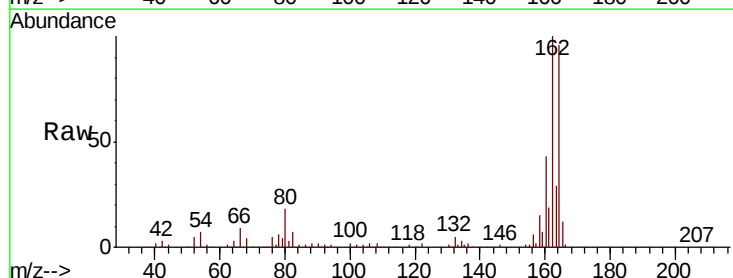
RT: 14.78 min Scan# 1991

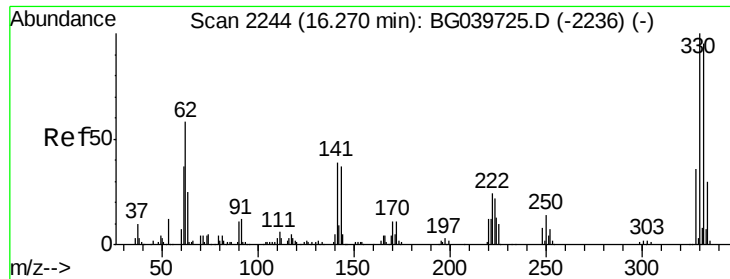
Delta R.T. -0.01 min

Lab File: BG039759.D

Acq: 5 Mar 2019 10:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.8 | 81.6  | 122.4 |
| 160     | 44.3  | 34.2  | 51.2  |

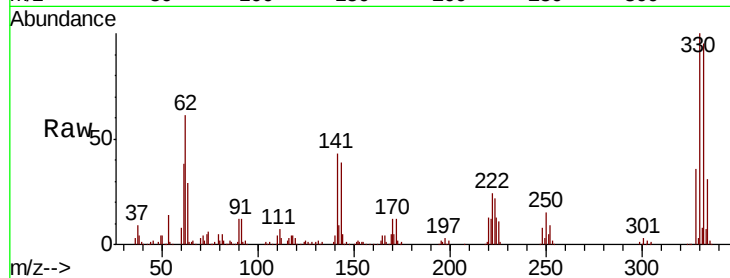




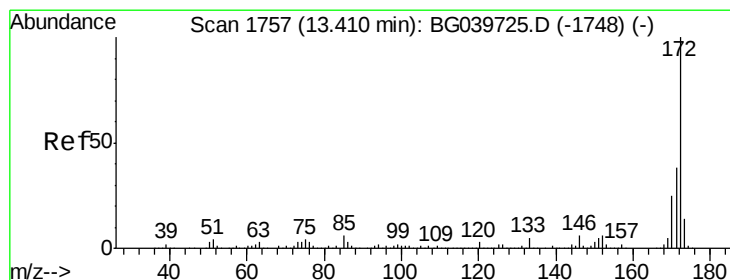
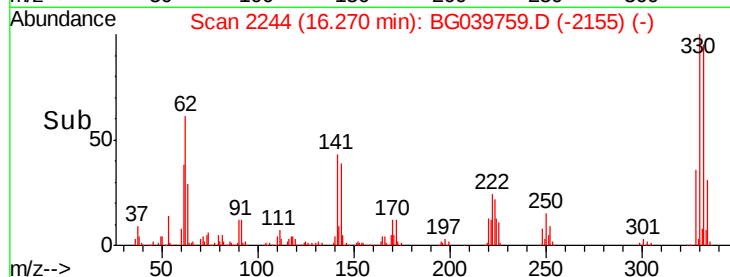
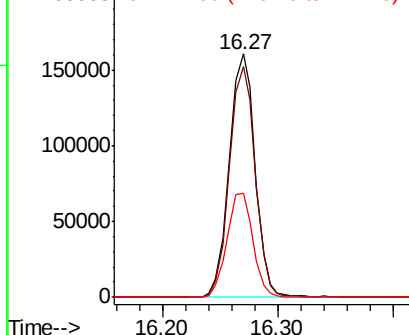
#42  
 2,4,6-Tribromophenol  
 Concen: 152.400 ng  
 RT: 16.27 min Scan# 2244  
 Delta R.T. -0.01 min  
 Lab File: BG039759.D  
 Acq: 5 Mar 2019 10:10

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:330 Resp: 249304  
 Ion Ratio Lower Upper  
 330 100  
 332 95.0 75.7 113.5  
 141 43.0 35.6 53.4

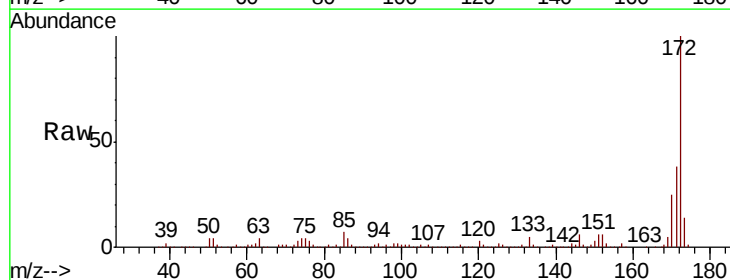


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

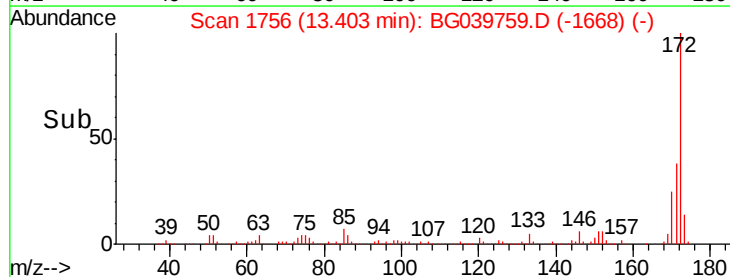
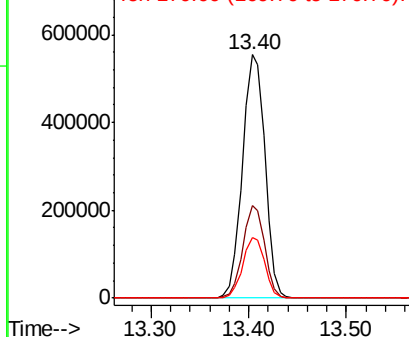


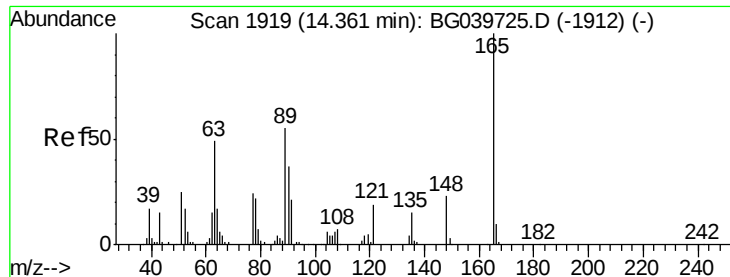
#45  
 2-Fluorobiphenyl  
 Concen: 90.470 ng  
 RT: 13.40 min Scan# 1756  
 Delta R.T. -0.01 min  
 Lab File: BG039759.D  
 Acq: 5 Mar 2019 10:10

Tgt Ion:172 Resp: 891764  
 Ion Ratio Lower Upper  
 172 100  
 171 37.9 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

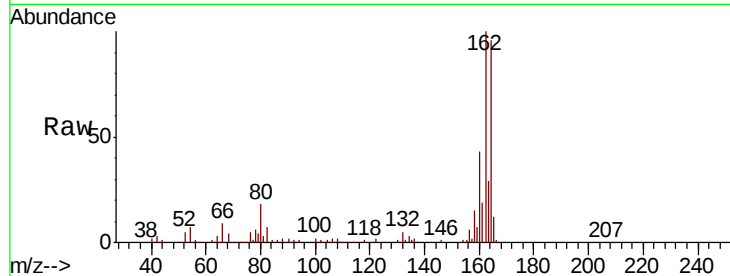




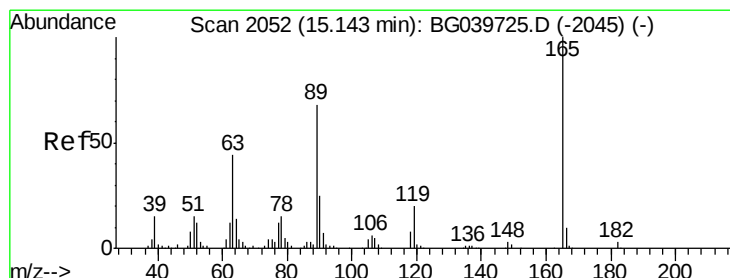
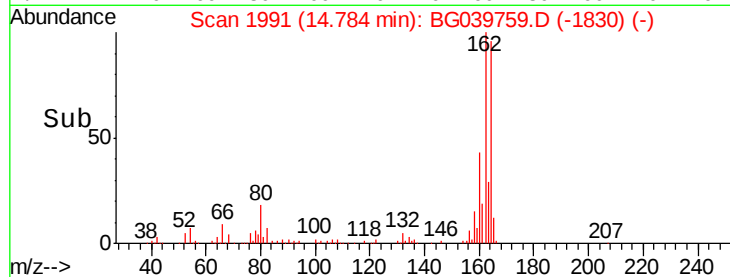
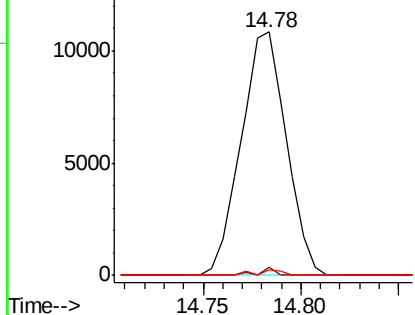
#51  
 2,6-Dinitrotoluene  
 Concen: 6.994 ng  
 RT: 14.78 min Scan# 1991  
 Delta R.T. 0.42 min  
 Lab File: BG039759.D  
 Acq: 5 Mar 2019 10:10

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:165 Resp: 17401  
 Ion Ratio Lower Upper  
 165 100  
 63 3.2 47.0 70.6#  
 89 2.5 45.8 68.8#

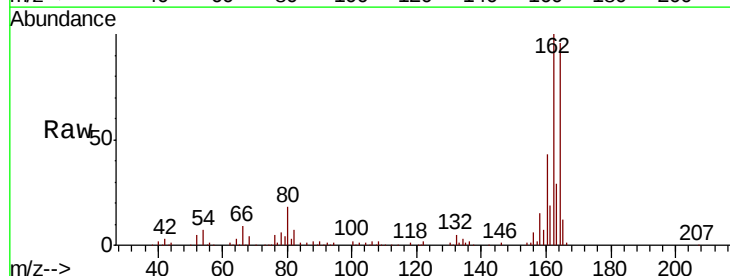


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC

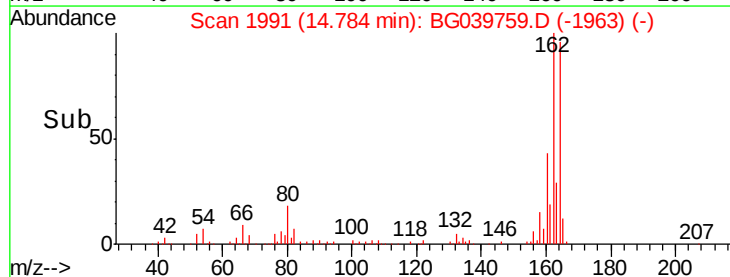
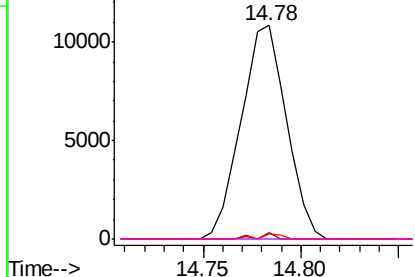


#57  
 2,4-Dinitrotoluene  
 Concen: 4.978 ng  
 RT: 14.78 min Scan# 1991  
 Delta R.T. -0.37 min  
 Lab File: BG039759.D  
 Acq: 5 Mar 2019 10:10

Tgt Ion:165 Resp: 17401  
 Ion Ratio Lower Upper  
 165 100  
 63 3.2 41.0 61.6#  
 89 2.5 64.6 96.8#  
 182 0.0 2.0 3.0#



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: 17.53 min Scan# 2458

Delta R.T. -0.01 min

Lab File: BG039759.D

Acq: 5 Mar 2019 10:10

Instrument :

BNA\_G

ClientSampleId :

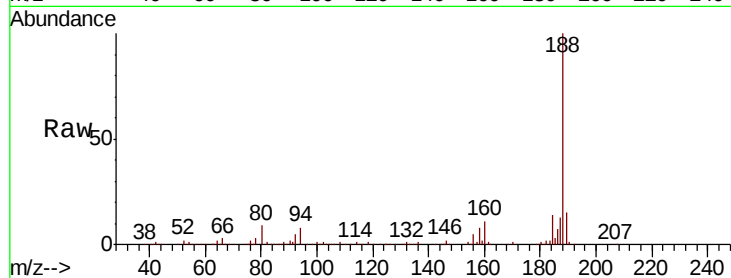
Tot Ion:188 Resp: 353930

Ion Ratio Lower Upper

188 100

94 8.1 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): BG

Ion 80.00 (79.70 to 80.70): BG

300000

250000

200000

150000

100000

50000

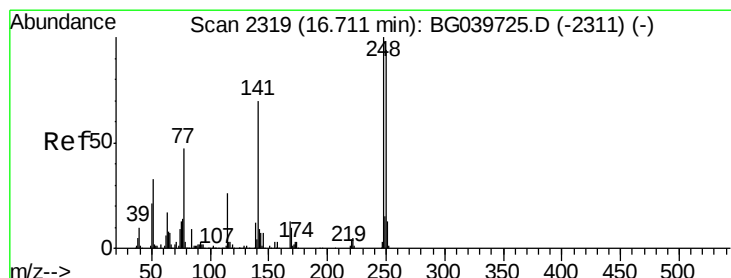
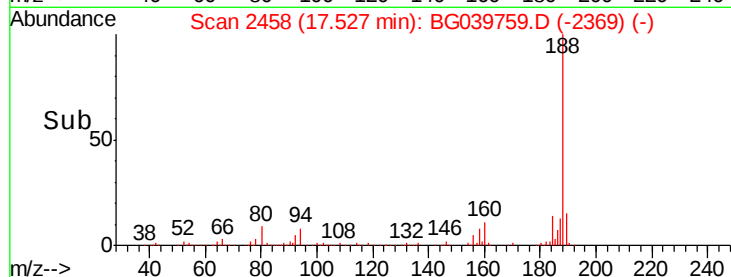
0

17.53

17.50

17.60

Time-->



#67

4-Bromophenyl-phenylether

Concen: 5.251 ng

RT: 16.26 min Scan# 2243

Delta R.T. -0.45 min

Lab File: BG039759.D

Acq: 5 Mar 2019 10:10

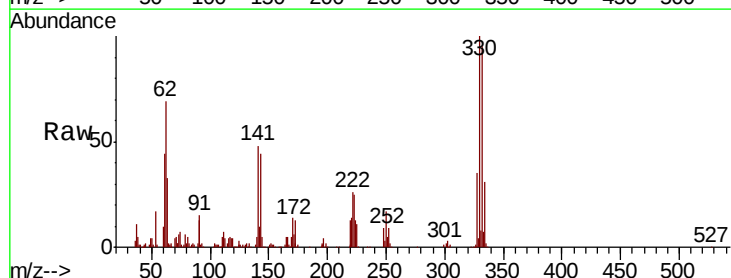
Tgt Ion:248 Resp: 20804

Ion Ratio Lower Upper

248 100

250 180.6 77.6 116.4#

141 509.1 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

80000

60000

40000

20000

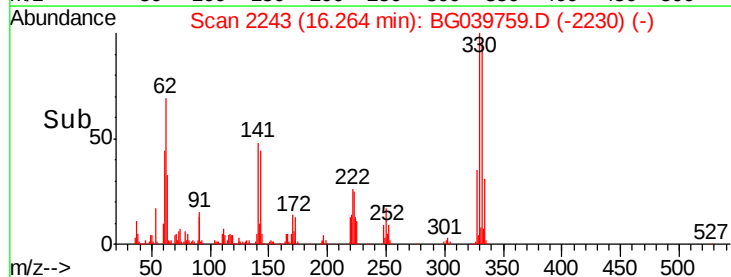
0

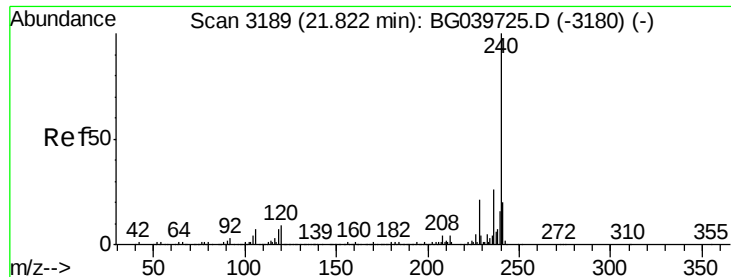
16.26

16.20

16.30

Time-->





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.82 min Scan# 3188

Delta R.T. -0.01 min

Lab File: BG039759.D

Acq: 5 Mar 2019 10:10

Instrument :

BNA\_G

ClientSampled :

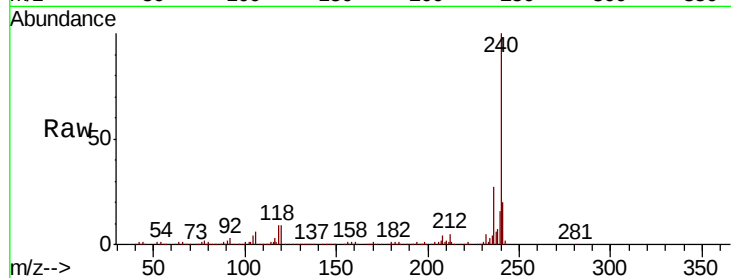
Tot Ion:240 Resp: 368975

Ion Ratio Lower Upper

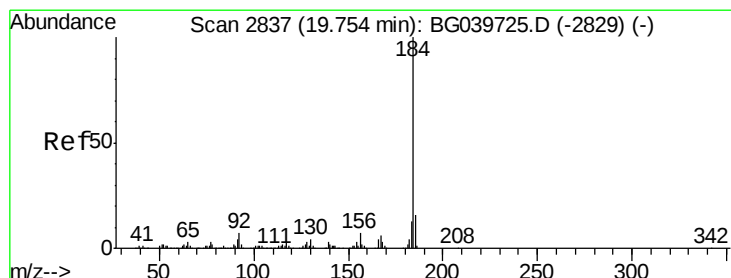
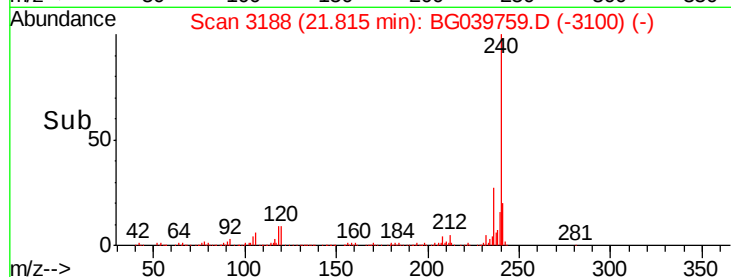
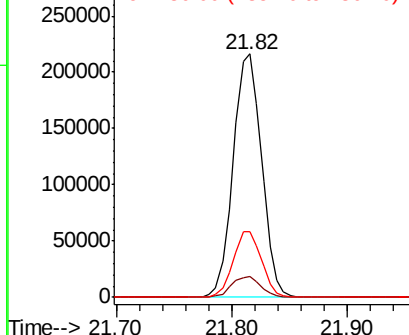
240 100

120 8.7 7.0 10.6

236 27.2 21.0 31.4



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



#77

Benzidine

Concen: 2.397 ng

RT: 20.12 min Scan# 2899

Delta R.T. 0.36 min

Lab File: BG039759.D

Acq: 5 Mar 2019 10:10

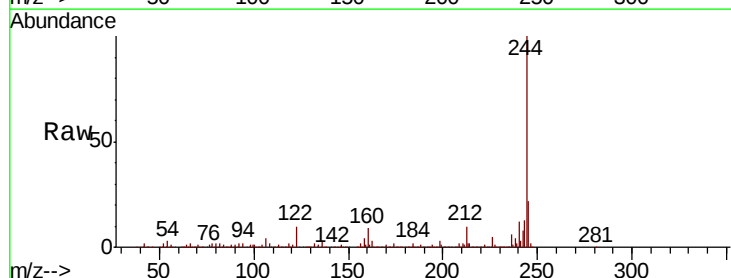
Tgt Ion:184 Resp: 28071

Ion Ratio Lower Upper

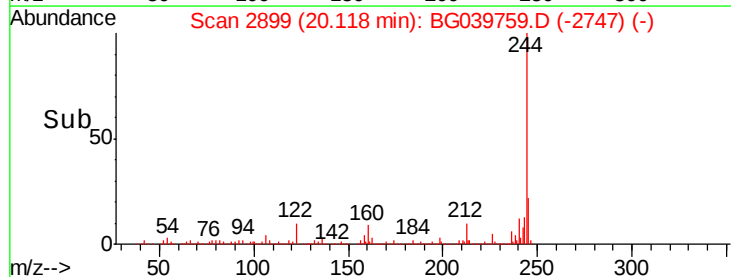
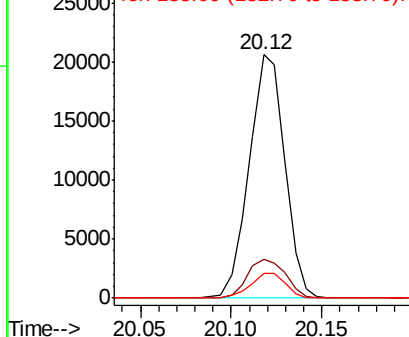
184 100

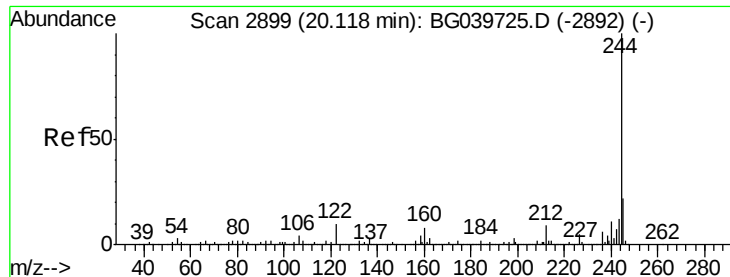
185 16.2 12.2 18.2

183 10.2 10.6 15.8#



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





#79

Terphenyl-d14

Concen: 92.829 ng

RT: 20.12 min Scan# 2899

Delta R.T. -0.01 min

Lab File: BG039759.D

Acq: 5 Mar 2019 10:10

Instrument :

BNA\_G

ClientSampled :

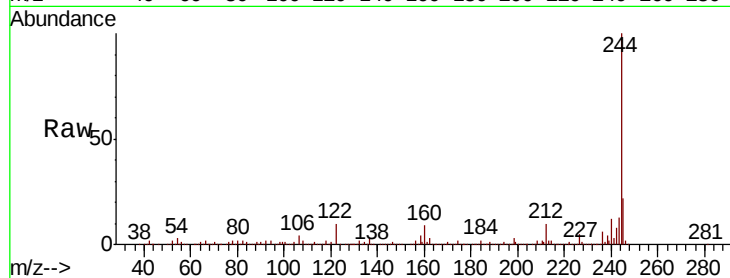
Tot Ion:244 Resp: 1555619

Ion Ratio Lower Upper

244 100

212 9.5 7.3 10.9

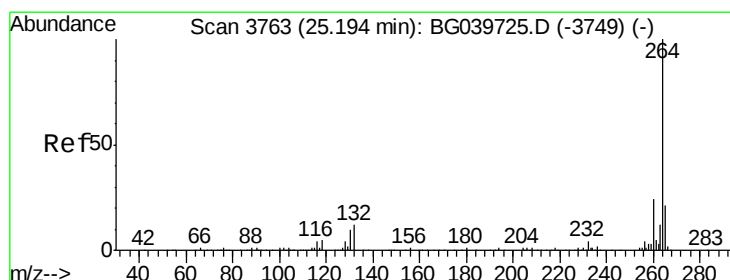
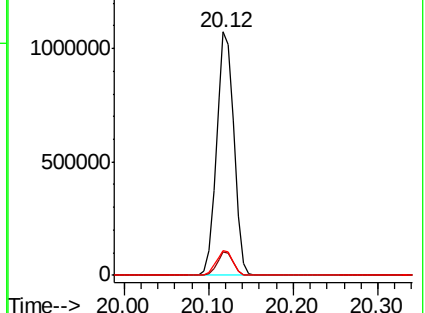
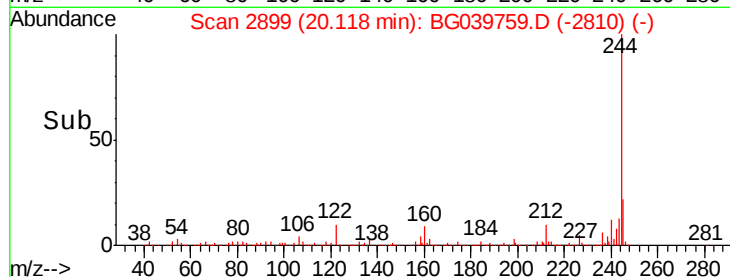
122 10.1 8.4 12.6



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: 25.19 min Scan# 3762

Delta R.T. -0.01 min

Lab File: BG039759.D

Acq: 5 Mar 2019 10:10

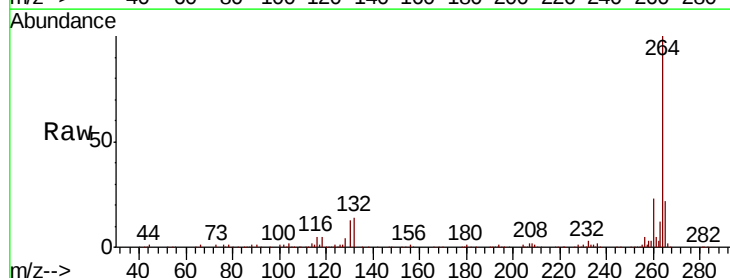
Tgt Ion:264 Resp: 375744

Ion Ratio Lower Upper

264 100

260 23.5 18.2 27.4

265 22.3 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

