

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011719\  
 Data File : BG039205.D  
 Acq On : 18 Jan 2019 5:07  
 Operator : JU/SJ  
 Sample : K1157-21  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-04-011519

Quant Time: Jan 18 06:22:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 18 04:20:14 2019  
 Response via : Initial Calibration

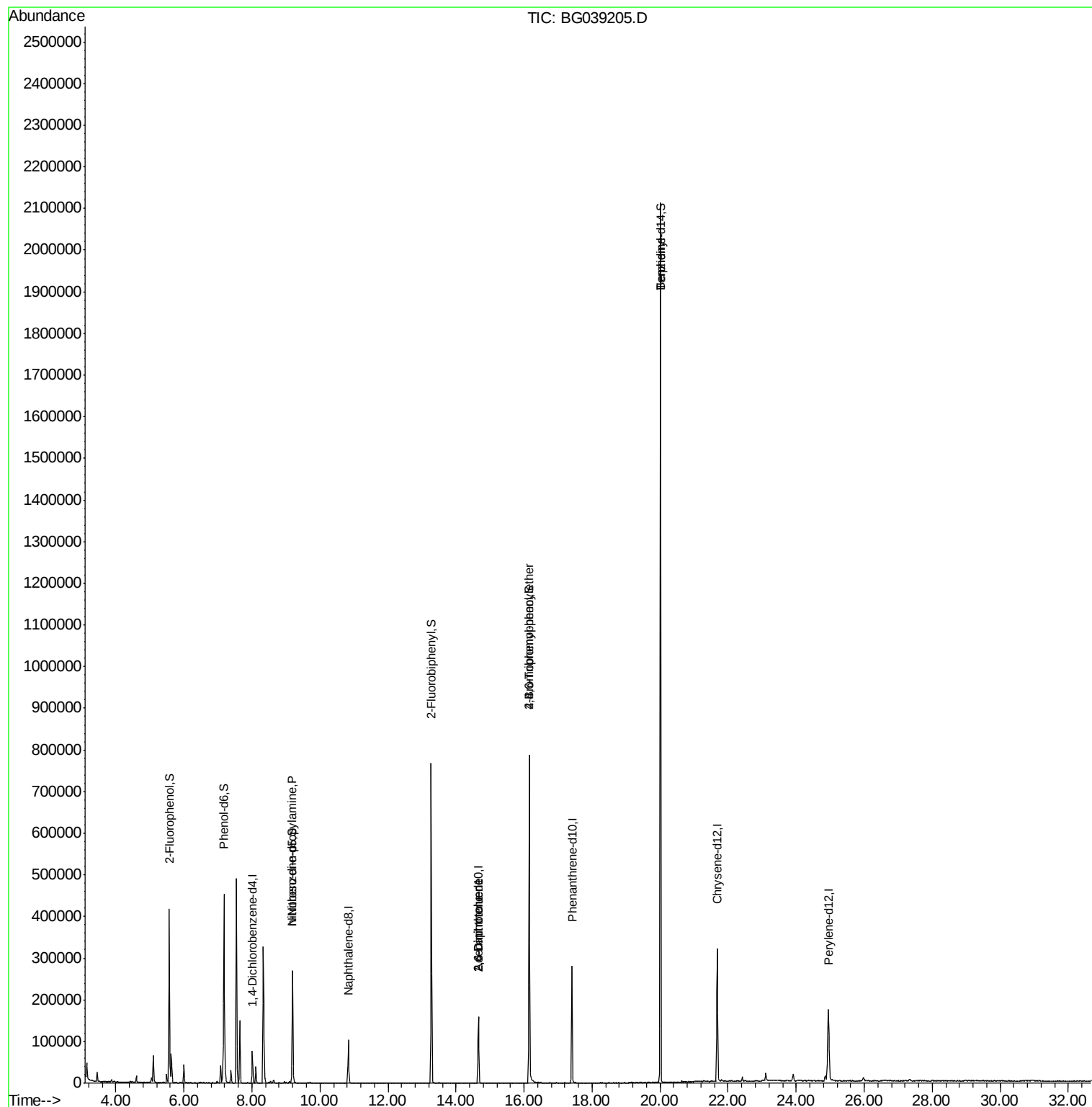
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.01  | 152  | 24137    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.83 | 136  | 92444    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.66 | 164  | 61847    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.41 | 188  | 199937   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.68 | 240  | 214014   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.94 | 264  | 227353   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.57  | 112  | 188685   | 148.29 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.18  | 99   | 274982   | 150.17 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.19  | 82   | 159231   | 94.25  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.15 | 330  | 176268   | 170.02 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.27 | 172  | 423025   | 93.61  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.01 | 244  | 1065589  | 92.11  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.19  | 70   | 21687    | 18.036 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene         | 14.66 | 165  | 7617     | 6.519  | ng    | # 24     |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 7617     | 4.544  | ng    | # 26     |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248  | 11543    | 4.491  | ng    | # 1      |
| 77) Benzidine                  | 20.01 | 184  | 17041    | 2.603  | ng    | 98       |

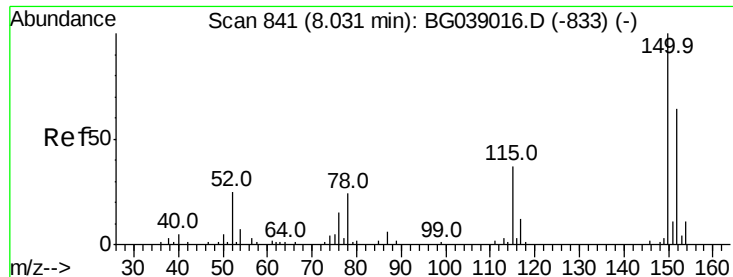
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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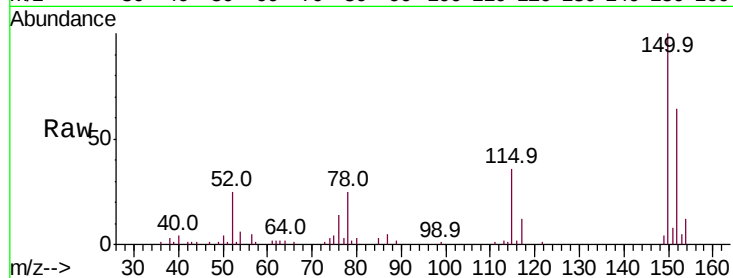


#1

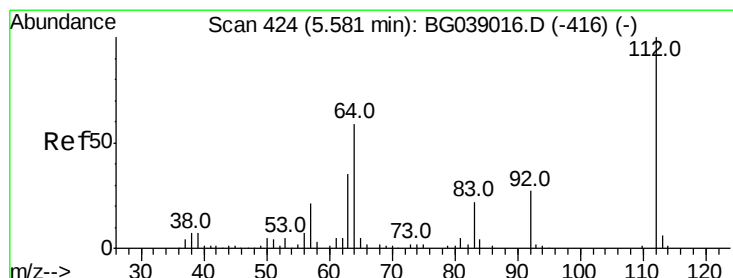
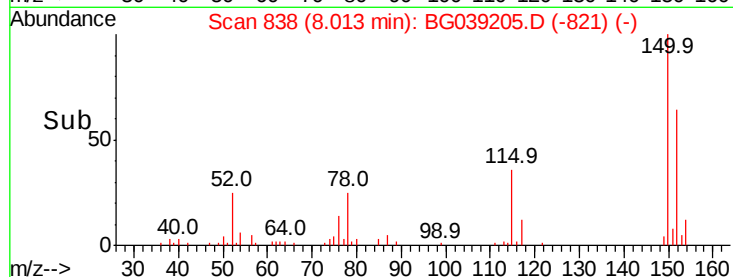
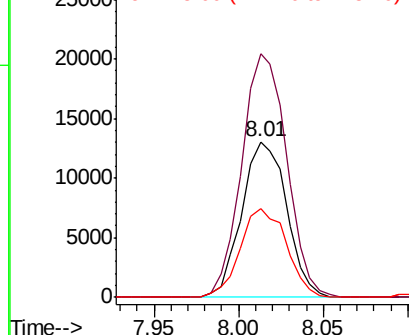
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 838  
Delta R.T. -0.00 min  
Lab File: BG039205.D  
Acq: 18 Jan 2019 5:07

Instrument :  
BNA\_G  
ClientSampleId :  
WC-04-011519

Tot Ion:152 Resp: 24137  
Ion Ratio Lower Upper  
152 100  
150 156.5 124.7 187.1  
115 56.9 46.5 69.7



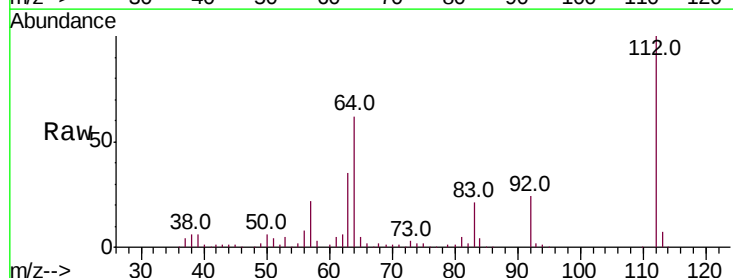
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



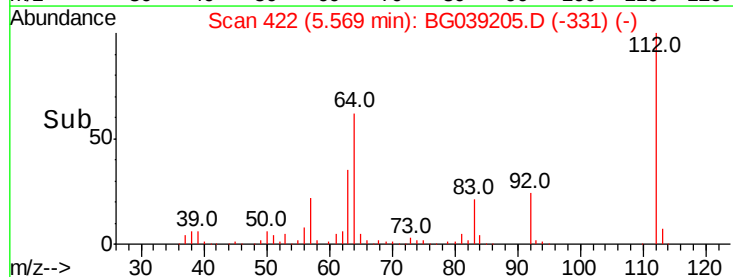
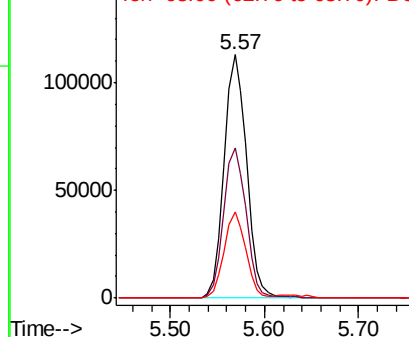
#5

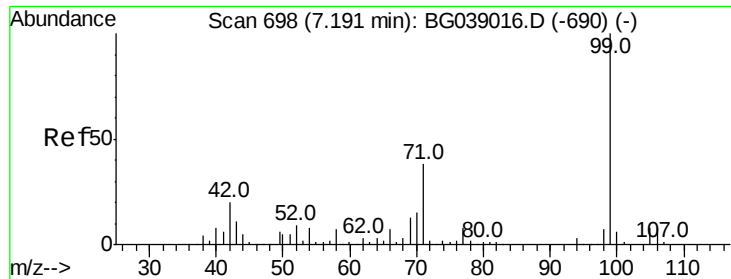
2-Fluorophenol  
Concen: 148.292 ng  
RT: 5.57 min Scan# 422  
Delta R.T. 0.00 min  
Lab File: BG039205.D  
Acq: 18 Jan 2019 5:07

Tgt Ion:112 Resp: 188685  
Ion Ratio Lower Upper  
112 100  
64 61.5 47.0 70.6  
63 35.2 28.0 42.0



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: 150.170 ng

RT: 7.18 min Scan# 696

Delta R.T. 0.00 min

Lab File: BG039205.D

Acq: 18 Jan 2019 5:07

Instrument :

BNA\_G

ClientSampleId :

WC-04-011519

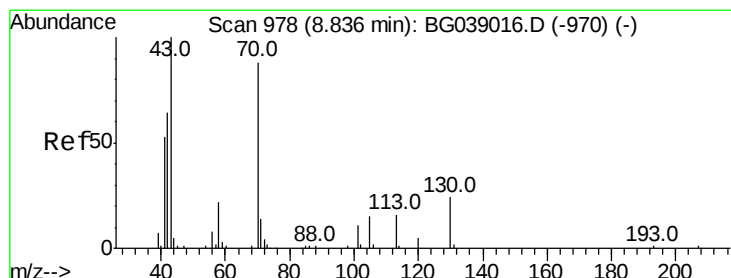
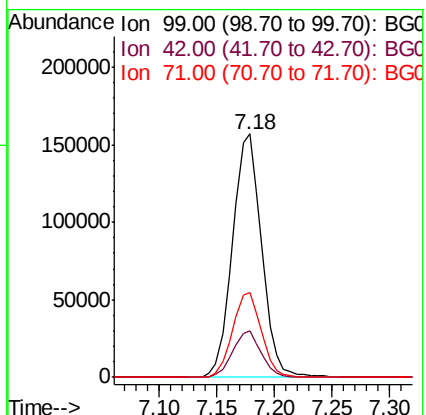
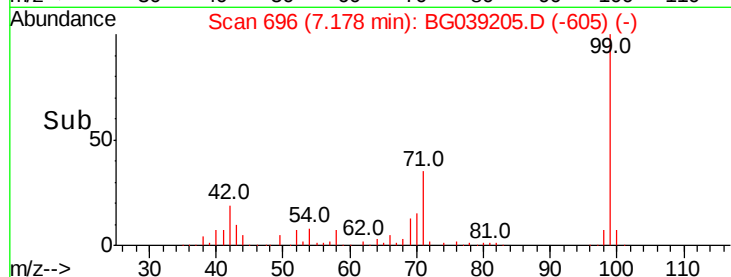
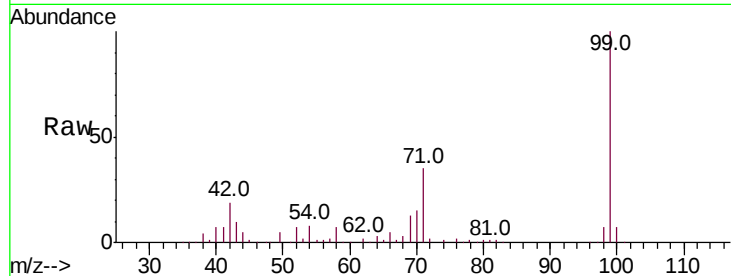
Tot Ion: 99 Resp: 274982

Ion Ratio Lower Upper

99 100

42 18.8 15.8 23.6

71 34.7 30.2 45.4



#19

n-Nitroso-di-n-propylamine

Concen: 18.036 ng

RT: 9.19 min Scan# 1039

Delta R.T. 0.37 min

Lab File: BG039205.D

Acq: 18 Jan 2019 5:07

Tgt Ion: 70 Resp: 21687

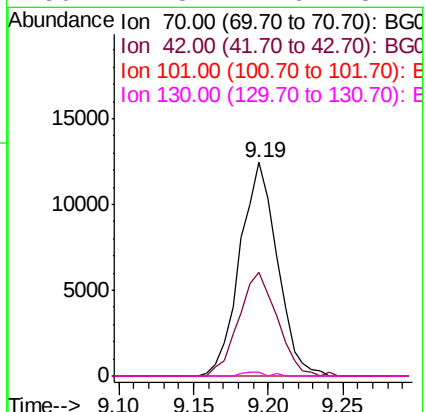
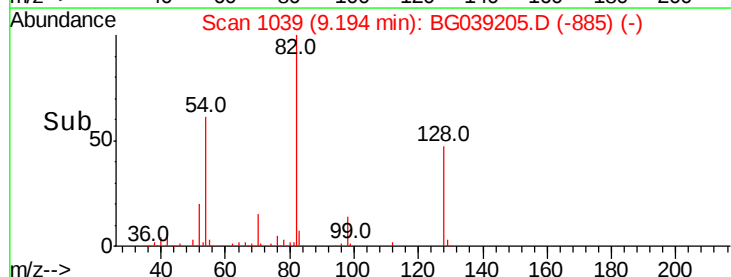
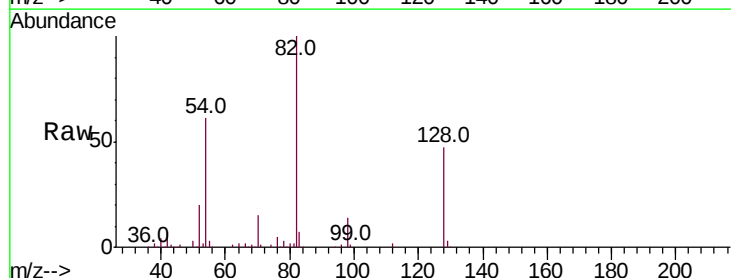
Ion Ratio Lower Upper

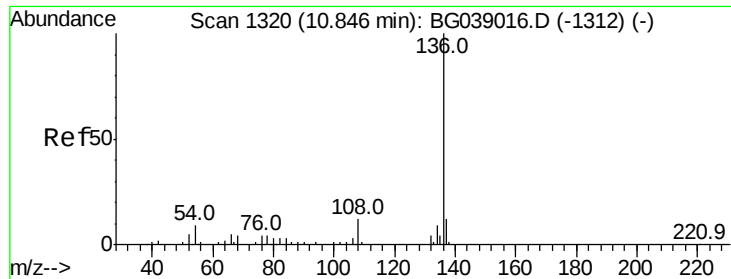
70 100

42 48.7 59.0 88.4#

101 0.0 10.4 15.6#

130 1.8 21.6 32.4#

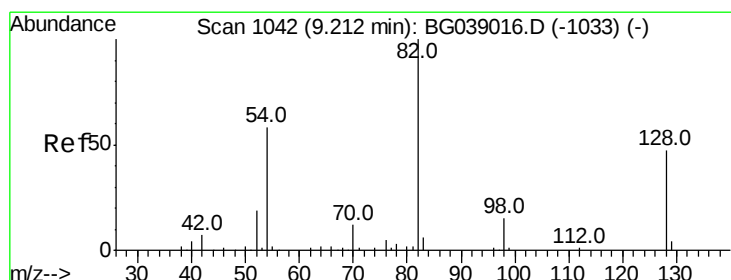
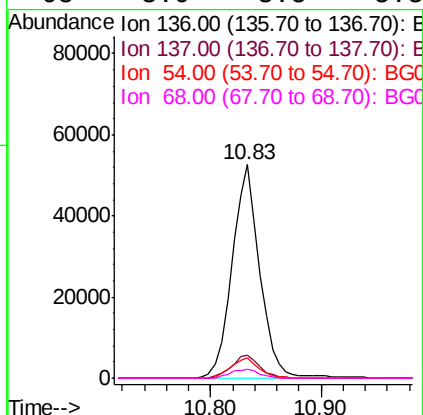
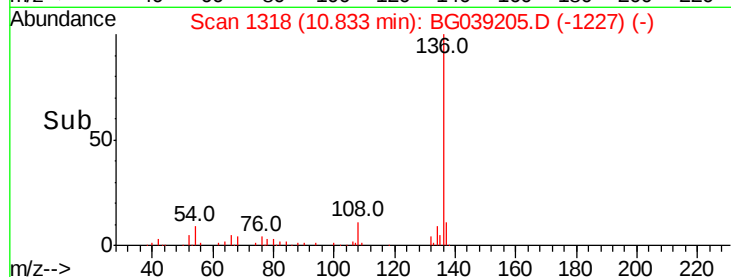
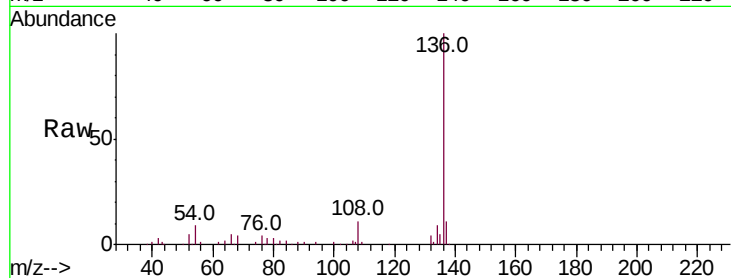




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1318  
Delta R.T. 0.00 min  
Lab File: BG039205.D  
Acq: 18 Jan 2019 5:07

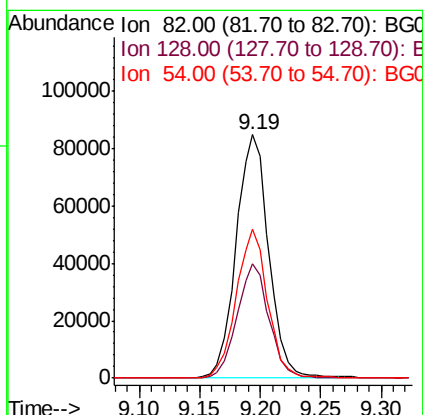
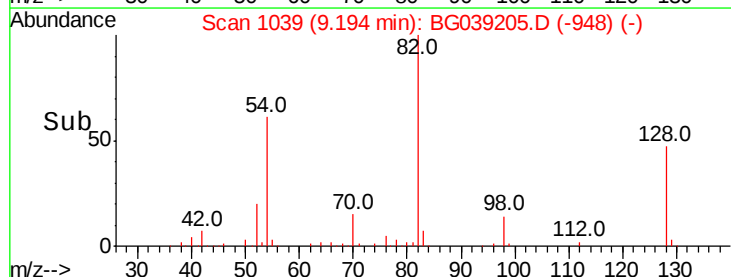
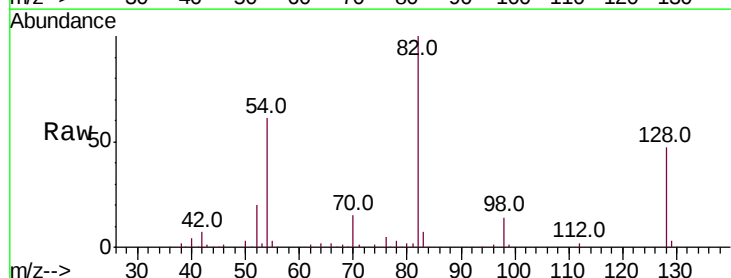
Instrument :  
BNA\_G  
ClientSampleId :  
WC-04-011519

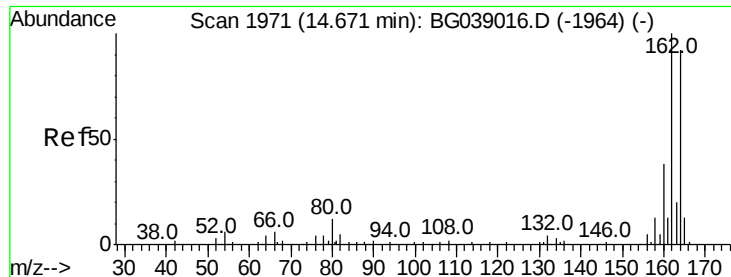
|             |       |       |  |
|-------------|-------|-------|--|
| Tot Ion:136 | Resp: | 92444 |  |
| Ion Ratio   | Lower | Upper |  |
| 136 100     |       |       |  |
| 137 10.6    | 9.4   | 14.2  |  |
| 54 9.4      | 7.2   | 10.8  |  |
| 68 3.9      | 3.5   | 5.3   |  |



#23  
Nitrobenzene-d5  
Concen: 94.252 ng  
RT: 9.19 min Scan# 1039  
Delta R.T. 0.00 min  
Lab File: BG039205.D  
Acq: 18 Jan 2019 5:07

|         |           |             |              |
|---------|-----------|-------------|--------------|
| Tgt Ion | 82        | Resp: Lower | 159231 Upper |
|         | Ratio 100 |             |              |
| 128     | 46.8      | 37.3        | 55.9         |
| 54      | 61.1      | 46.4        | 69.6         |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.66 min Scan# 1969

Delta R.T. 0.00 min

Lab File: BG039205.D

Acq: 18 Jan 2019 5:07

Instrument :

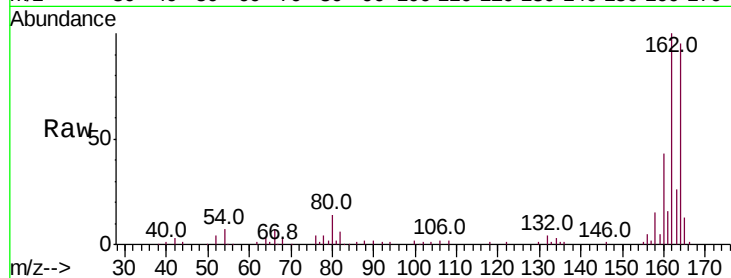
BNA\_G

ClientSampleId :

WC-04-011519

Tot Ion:164 Resp: 61847

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 105.6 | 87.2  | 130.8 |
| 160 | 45.7  | 33.3  | 49.9  |

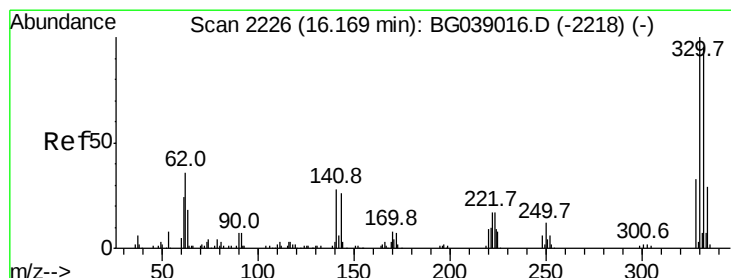
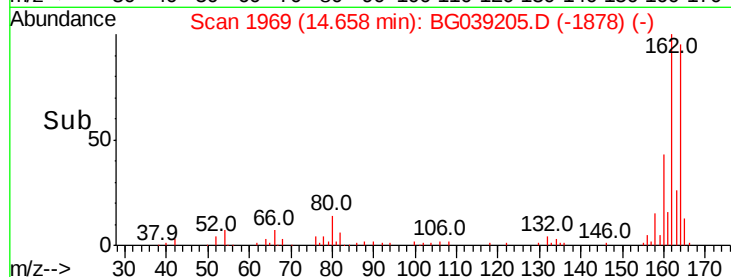
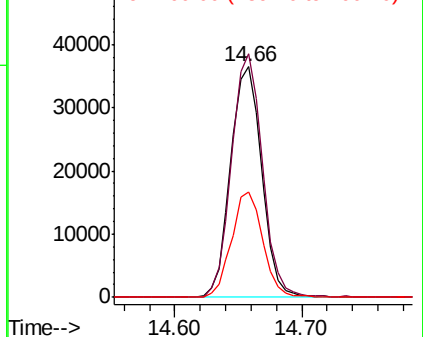


Abundance

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



#42

2,4,6-Tribromophenol

Concen: 170.024 ng

RT: 16.15 min Scan# 2223

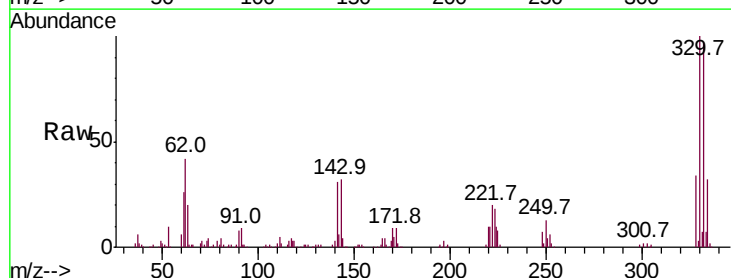
Delta R.T. -0.00 min

Lab File: BG039205.D

Acq: 18 Jan 2019 5:07

Tgt Ion:330 Resp: 176268

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 95.3  | 75.7  | 113.5 |
| 141 | 33.0  | 24.9  | 37.3  |

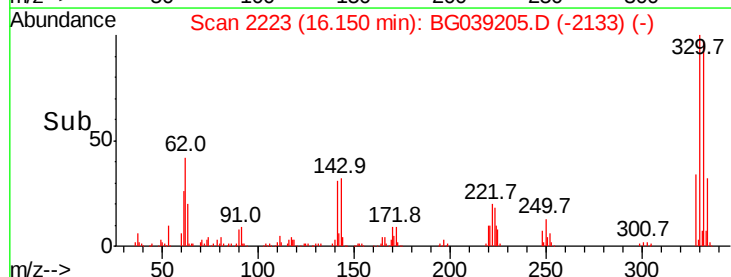
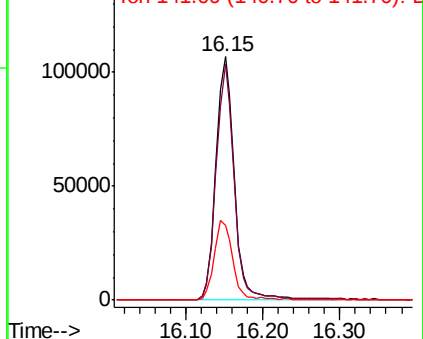


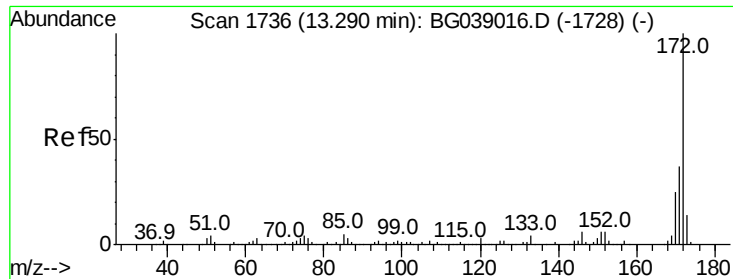
Abundance

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

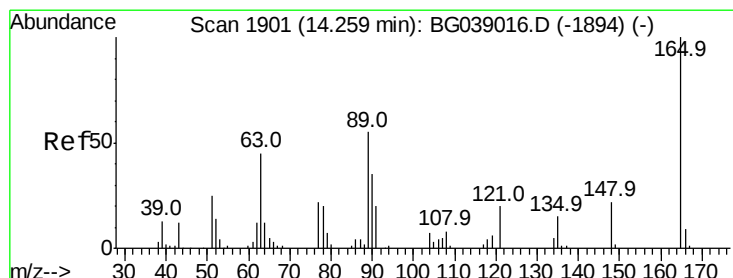
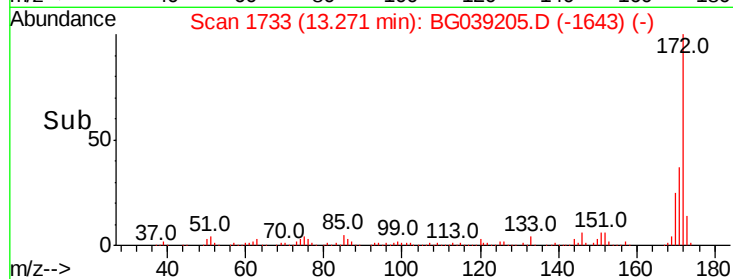
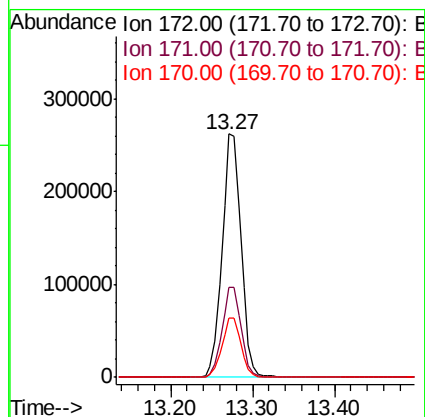
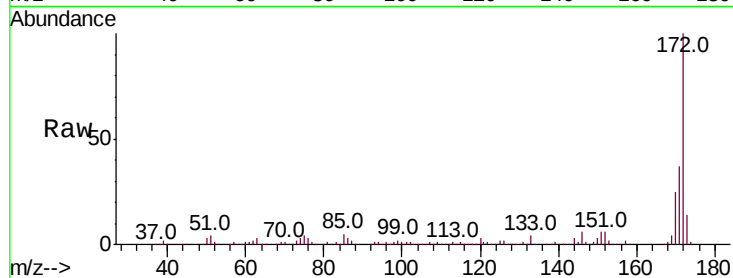




#45  
 2-Fluorobiphenyl  
 Concen: 93.608 ng  
 RT: 13.27 min Scan# 1733  
 Delta R.T. -0.00 min  
 Lab File: BG039205.D  
 Acq: 18 Jan 2019 5:07

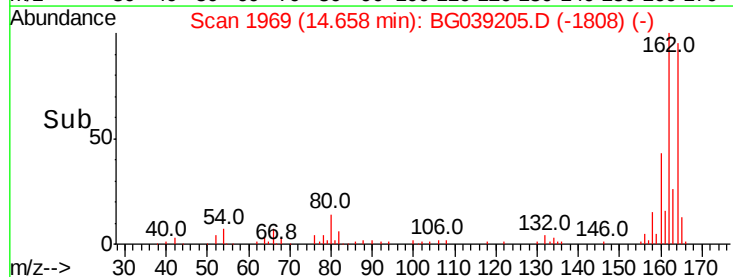
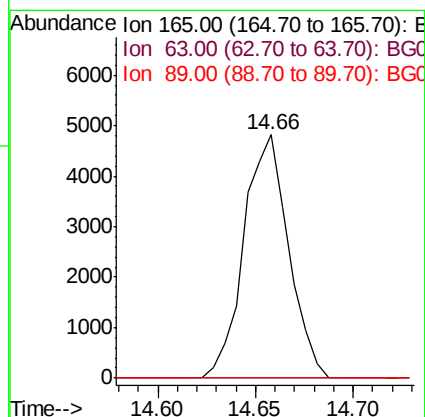
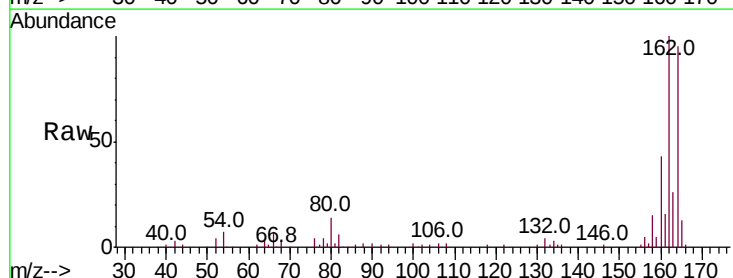
Instrument :  
 BNA\_G  
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 WC-04-011519

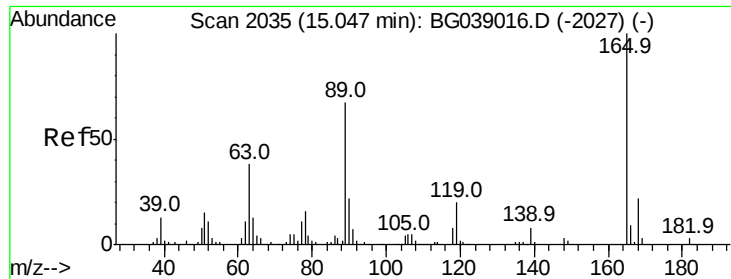
Tot Ion:172 Resp: 423025  
 Ion Ratio Lower Upper  
 172 100  
 171 36.8 29.4 44.0  
 170 24.5 20.1 30.1



#51  
 2,6-Dinitrotoluene  
 Concen: 6.519 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. 0.41 min  
 Lab File: BG039205.D  
 Acq: 18 Jan 2019 5:07

Tgt Ion:165 Resp: 7617  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 43.6 65.4#  
 89 0.0 43.7 65.5#

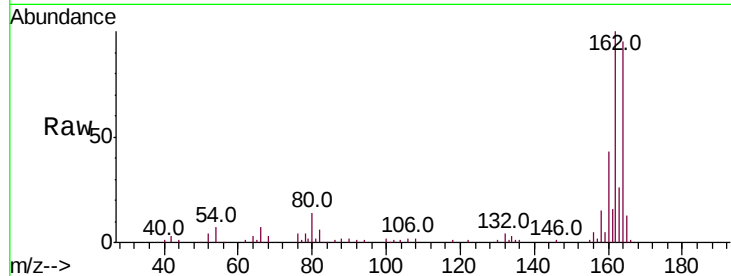




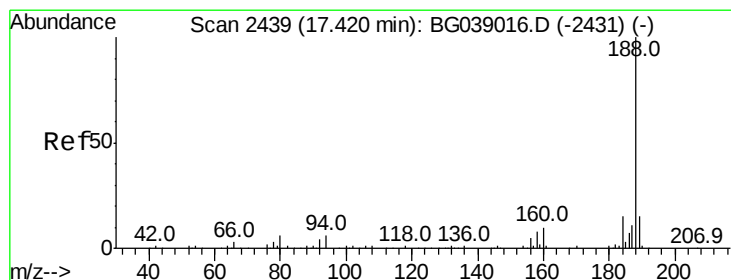
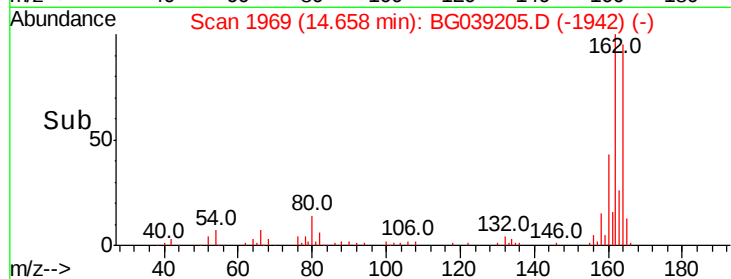
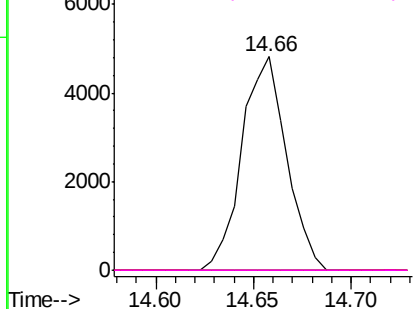
#57  
 2,4-Dinitrotoluene  
 Concen: 4.544 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. -0.37 min  
 Lab File: BG039205.D  
 Acq: 18 Jan 2019 5:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-04-011519

Tot Ion:165 Resp: 7617  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 30.2 45.4#  
 89 0.0 53.2 79.8#  
 182 0.0 2.7 4.1#

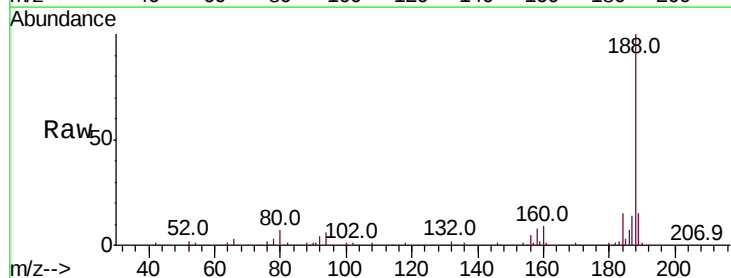


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

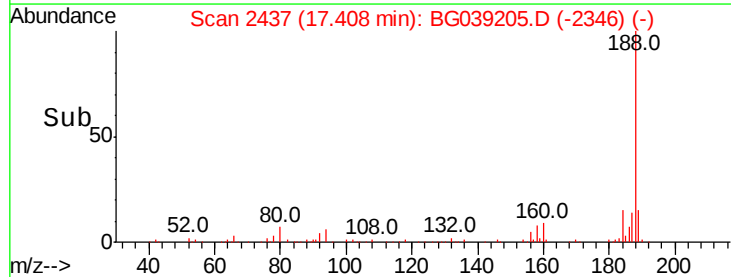
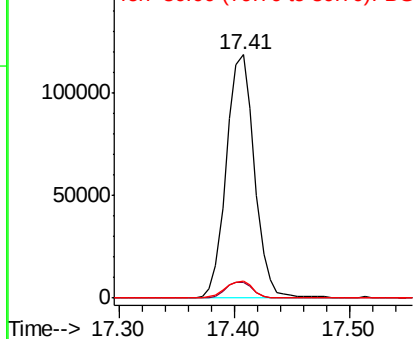


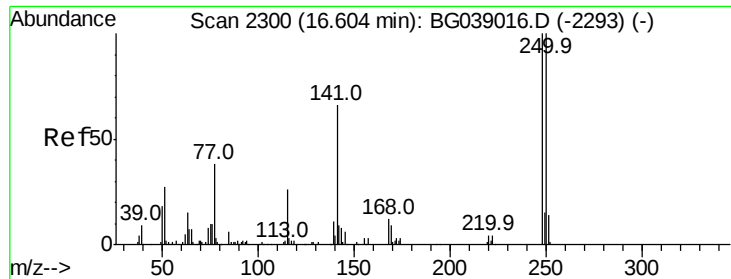
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.41 min Scan# 2437  
 Delta R.T. 0.00 min  
 Lab File: BG039205.D  
 Acq: 18 Jan 2019 5:07

Tgt Ion:188 Resp: 199937  
 Ion Ratio Lower Upper  
 188 100  
 94 6.2 5.0 7.4  
 80 7.0 4.7 7.1



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: 4.491 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.44 min

Lab File: BG039205.D

Acq: 18 Jan 2019 5:07

Instrument :

BNA\_G

ClientSampleId :

WC-04-011519

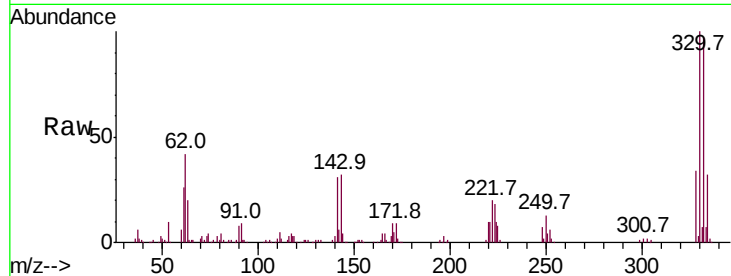
Tot Ion:248 Resp: 11543

Ion Ratio Lower Upper

248 100

250 183.1 79.9 119.9#

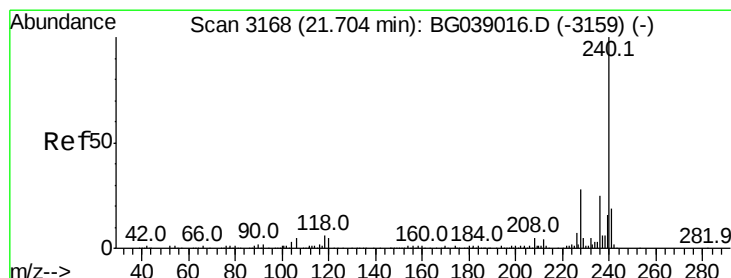
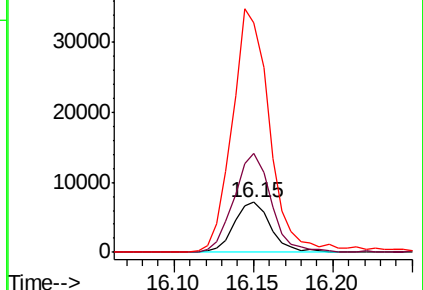
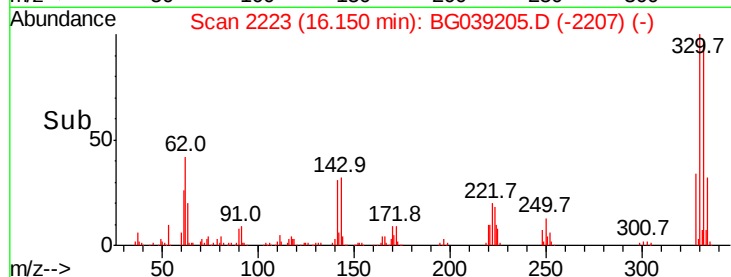
141 333.8 52.7 79.1#



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: 21.68 min Scan# 3164

Delta R.T. -0.00 min

Lab File: BG039205.D

Acq: 18 Jan 2019 5:07

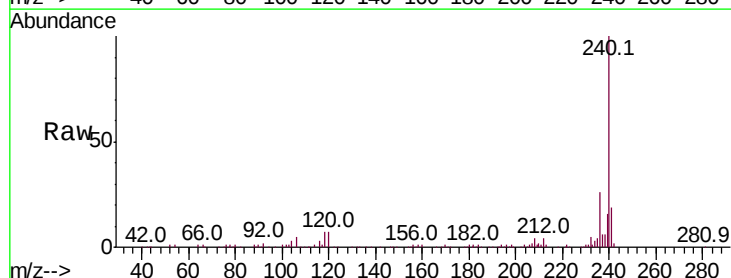
Tgt Ion:240 Resp: 214014

Ion Ratio Lower Upper

240 100

120 6.7 4.3 6.5#

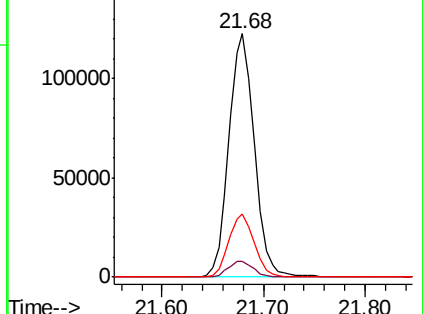
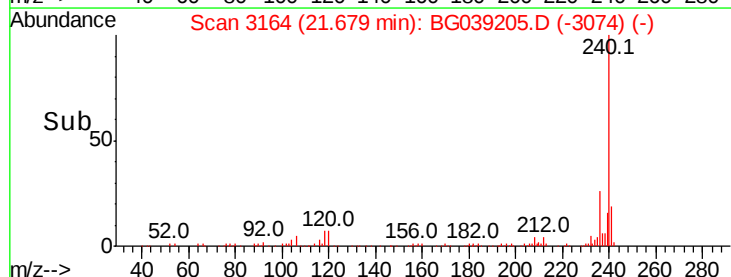
236 25.9 20.1 30.1

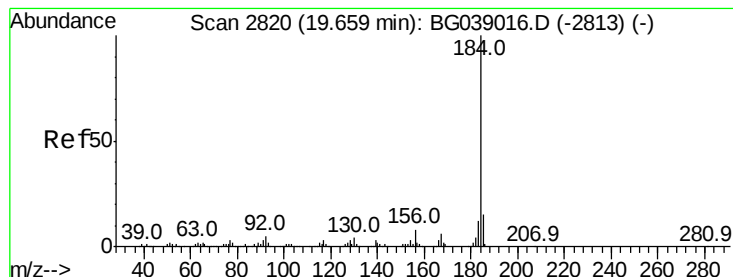


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.603 ng

RT: 20.01 min Scan# 2880

Delta R.T. 0.37 min

Lab File: BG039205.D

Acq: 18 Jan 2019 5:07

Instrument :

BNA\_G

ClientSampleId :

WC-04-011519

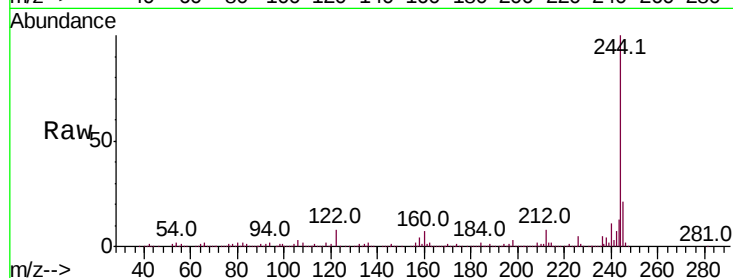
Tot Ion:184 Resp: 17041

Ion Ratio Lower Upper

184 100

185 16.4 12.1 18.1

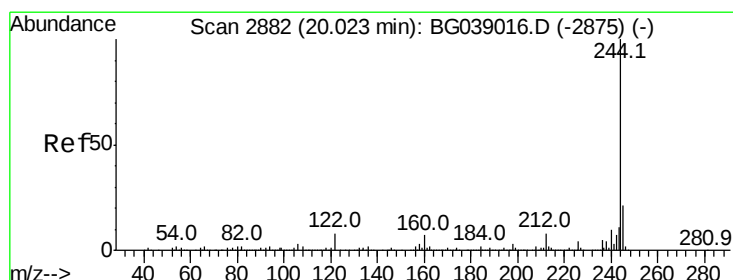
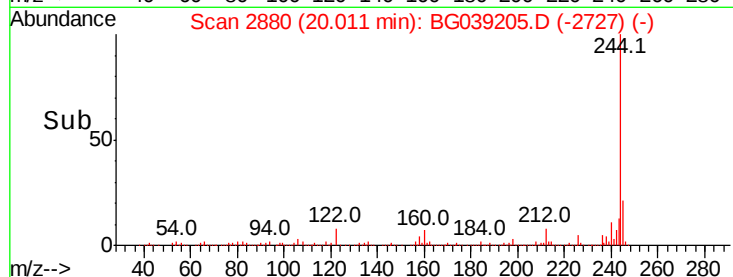
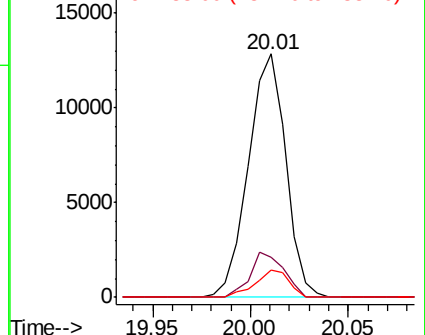
183 11.3 9.5 14.3



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



#79

Terphenyl-d14

Concen: 92.107 ng

RT: 20.01 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BG039205.D

Acq: 18 Jan 2019 5:07

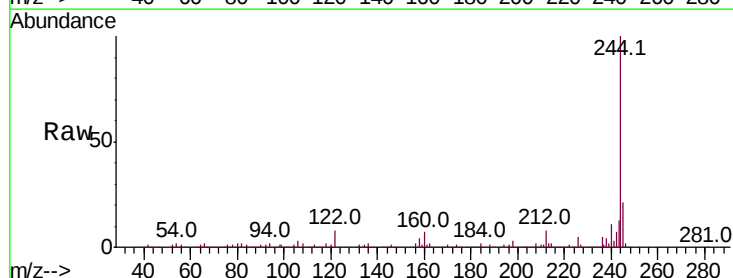
Tgt Ion:244 Resp: 1065589

Ion Ratio Lower Upper

244 100

212 7.9 6.1 9.1

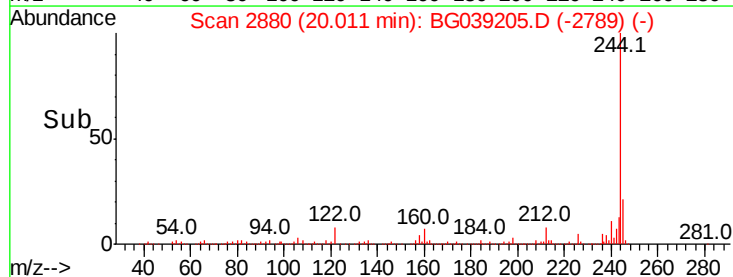
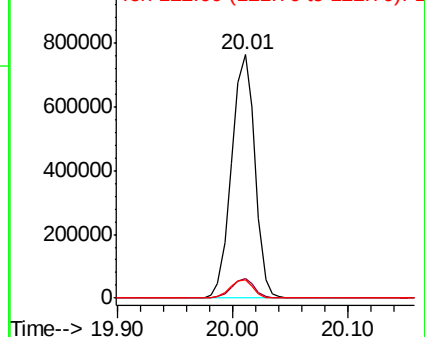
122 7.7 6.1 9.1

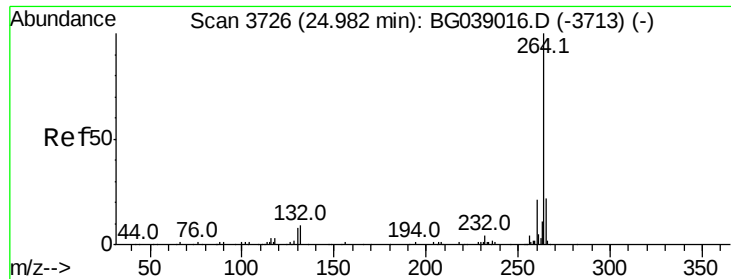


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.94 min Scan# 3719  
Delta R.T. -0.01 min  
Lab File: BG039205.D  
Acq: 18 Jan 2019 5:07

Instrument :  
BNA\_G  
ClientSampleId :  
WC-04-011519

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 17.0  | 25.6  |
| 265     | 21.7  | 17.2  | 25.8  |

