

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011019\  
 Data File : BG039084.D  
 Acq On : 11 Jan 2019 11:38  
 Operator : JU/SJ  
 Sample : K1099-12  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 11 12:40:12 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 09 14:23:53 2019  
 Response via : Initial Calibration

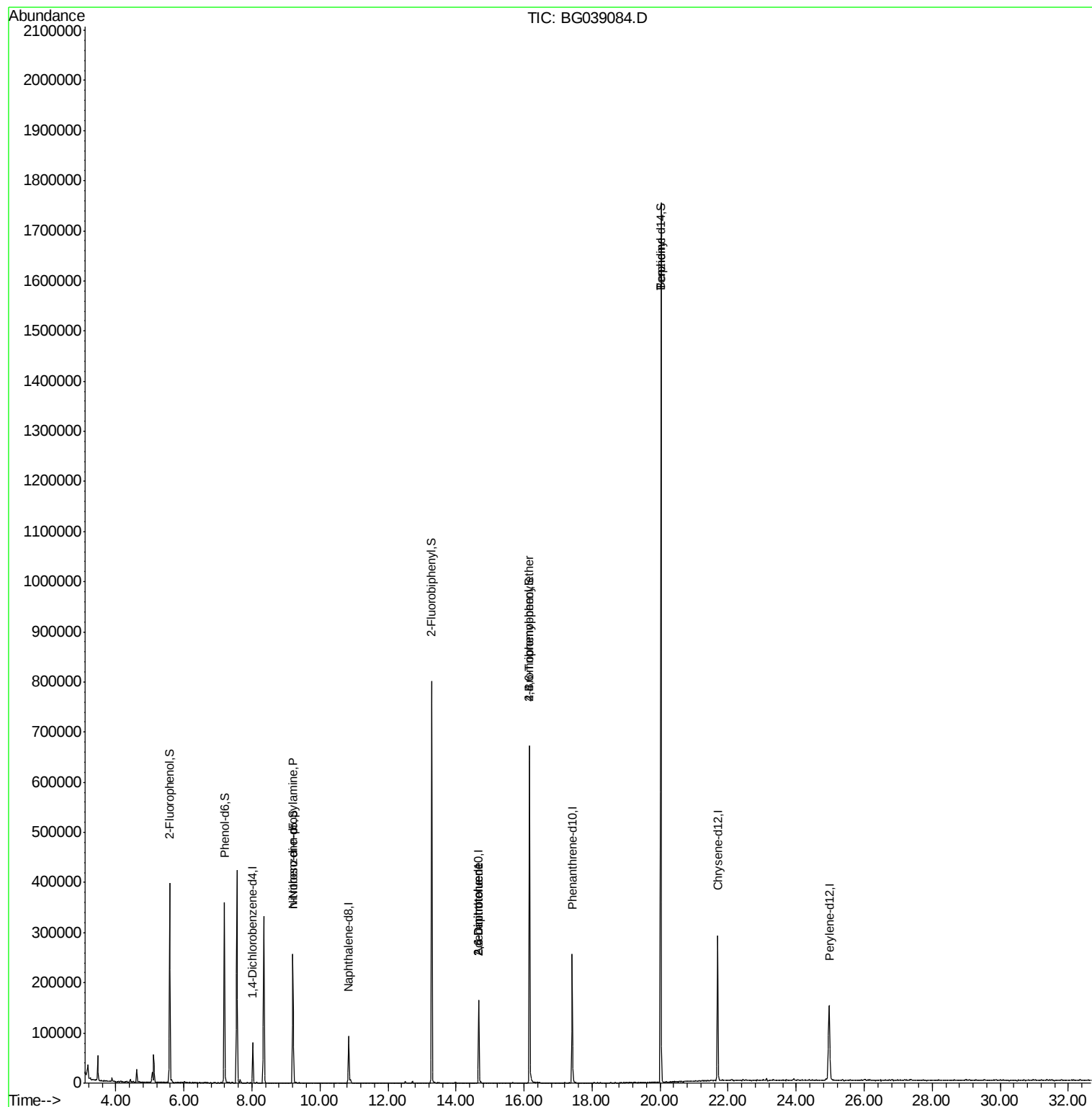
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.02  | 152  | 23471    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.85 | 136  | 89684    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.66 | 164  | 63448    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.41 | 188  | 168501   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.69 | 240  | 190167   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 24.97 | 264  | 199793   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.58  | 112  | 177856   | 143.75 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.19  | 99   | 219479   | 123.26 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 160690   | 98.04  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.16 | 330  | 156018   | 146.69 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.28 | 172  | 443732   | 95.71  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.02 | 244  | 946597   | 92.08  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 21948    | 18.771 | ng    | # 60     |
| 51) 2,6-Dinitrotoluene         | 14.66 | 165  | 8169     | 6.815  | ng    | # 24     |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 8169     | 4.750  | ng    | # 26     |
| 67) 4-Bromophenyl-phenylether  | 16.16 | 248  | 10184    | 4.702  | ng    | # 1      |
| 77) Benzidine                  | 20.02 | 184  | 14372    | 2.471  | ng    | # 95     |

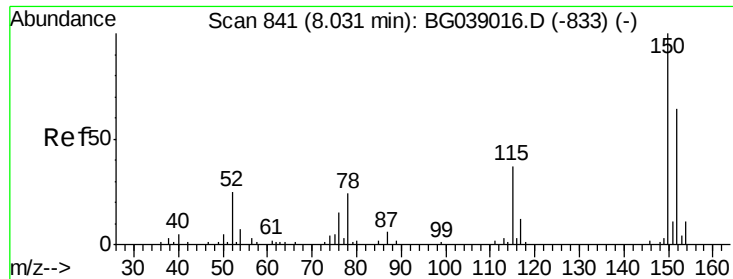
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011019\  
Data File : BG039084.D  
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ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jan 11 12:40:12 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG010919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 09 14:23:53 2019  
Response via : Initial Calibration



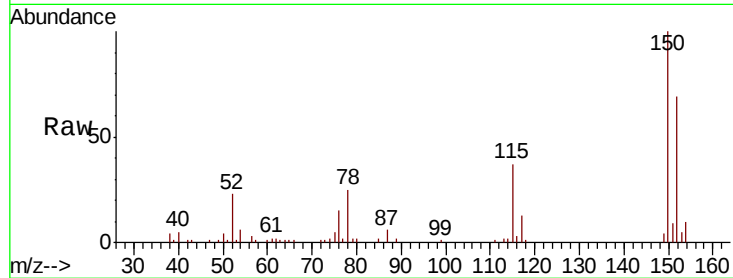


#1

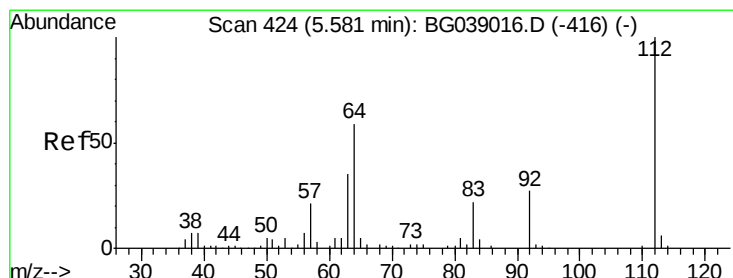
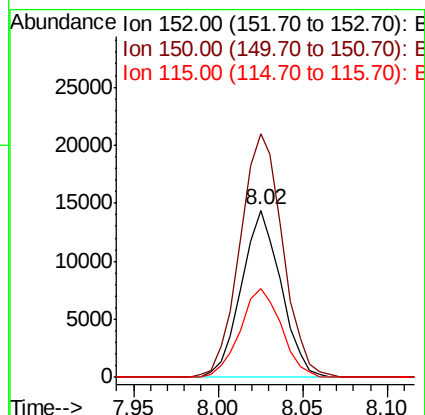
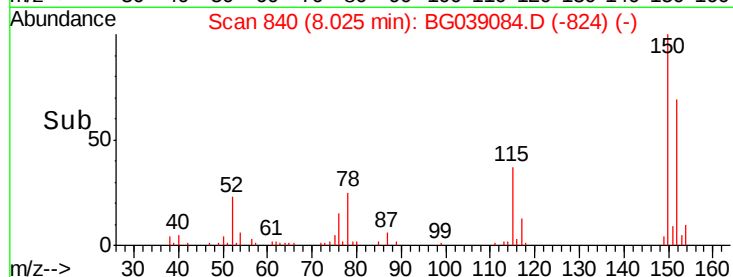
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.02 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BG039084.D  
Acq: 11 Jan 2019 11:38

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 23471  
Ion Ratio Lower Upper  
152 100  
150 145.5 124.7 187.1  
115 53.4 46.5 69.7



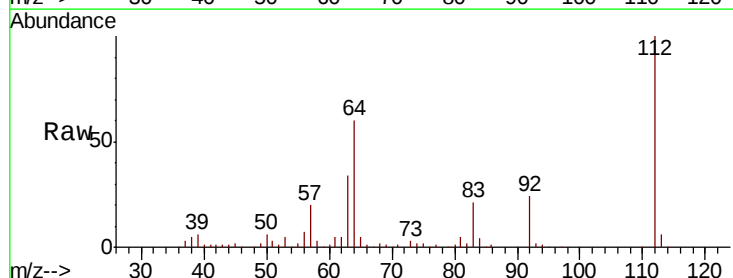
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



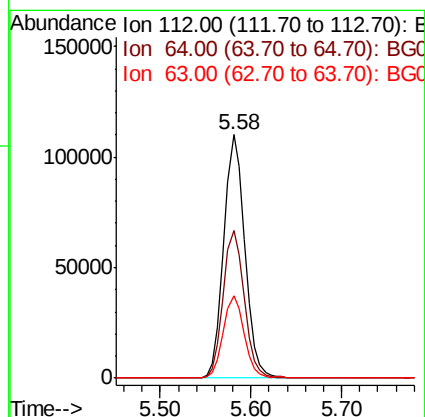
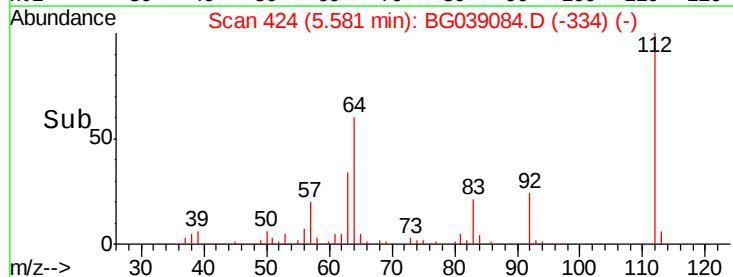
#5

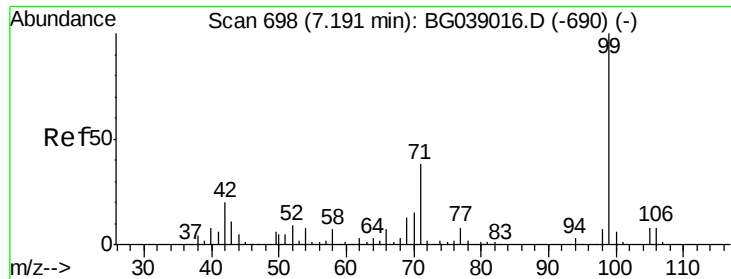
2-Fluorophenol  
Concen: 143.747 ng  
RT: 5.58 min Scan# 424  
Delta R.T. -0.00 min  
Lab File: BG039084.D  
Acq: 11 Jan 2019 11:38

Tgt Ion:112 Resp: 177856  
Ion Ratio Lower Upper  
112 100  
64 60.5 47.0 70.6  
63 34.0 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: 123.261 ng

RT: 7.19 min Scan# 698

Delta R.T. -0.00 min

Lab File: BG039084.D

Acq: 11 Jan 2019 11:38

Instrument :

BNA\_G

ClientSampleId :

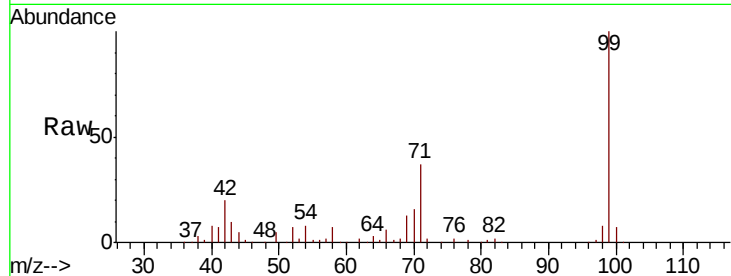
Tot Ion: 99 Resp: 219479

Ion Ratio Lower Upper

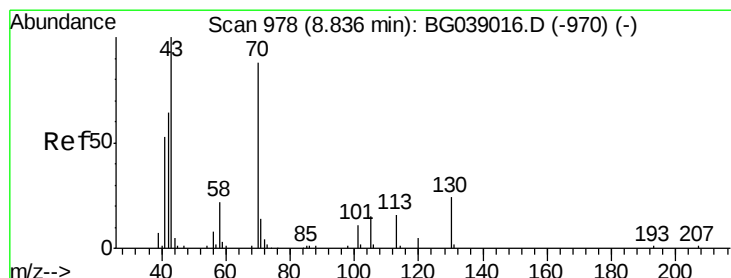
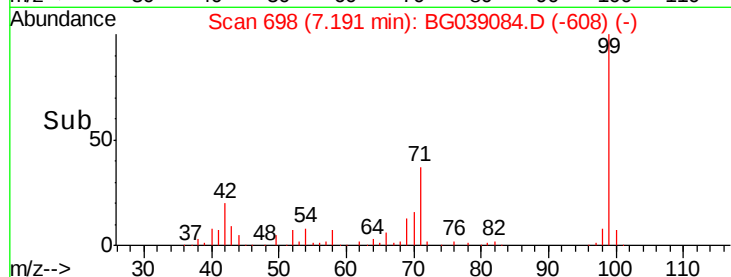
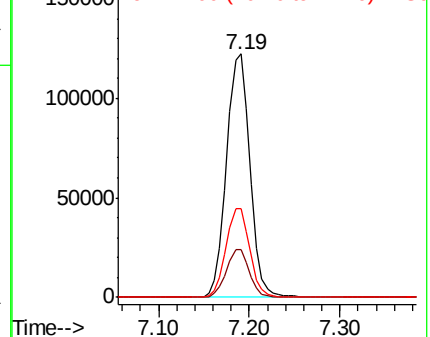
99 100

42 19.6 15.8 23.6

71 36.5 30.2 45.4



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: 18.771 ng

RT: 9.21 min Scan# 1041

Delta R.T. 0.37 min

Lab File: BG039084.D

Acq: 11 Jan 2019 11:38

Tgt Ion: 70 Resp: 21948

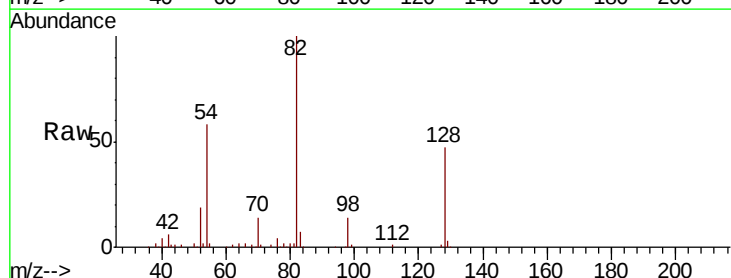
Ion Ratio Lower Upper

70 100

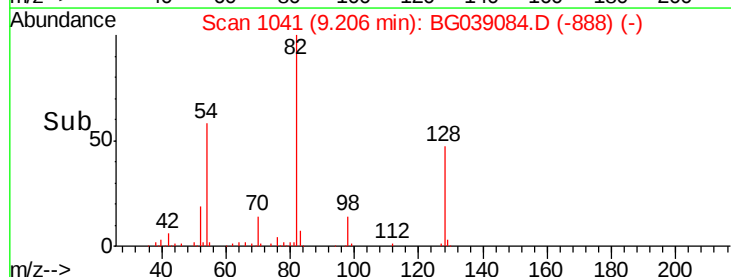
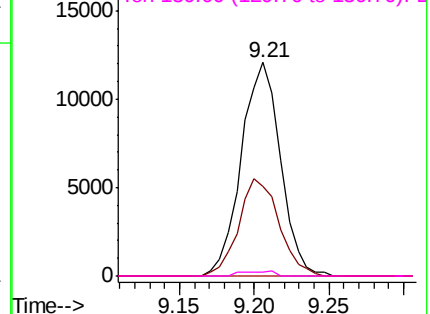
42 41.9 59.0 88.4#

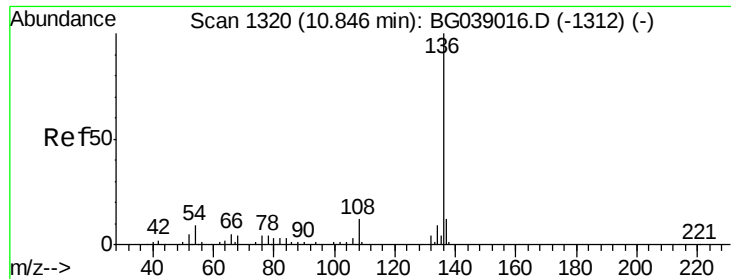
101 0.0 10.4 15.6#

130 1.9 21.6 32.4#



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

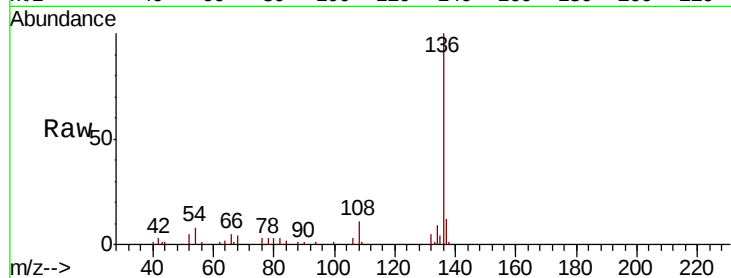




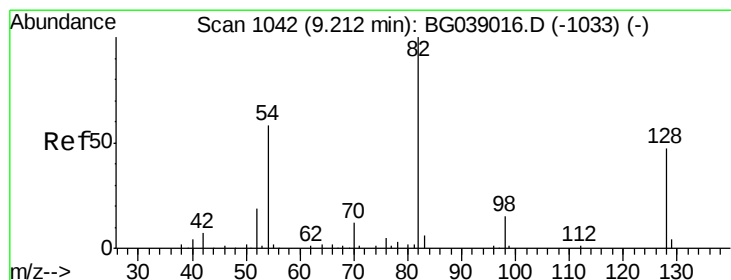
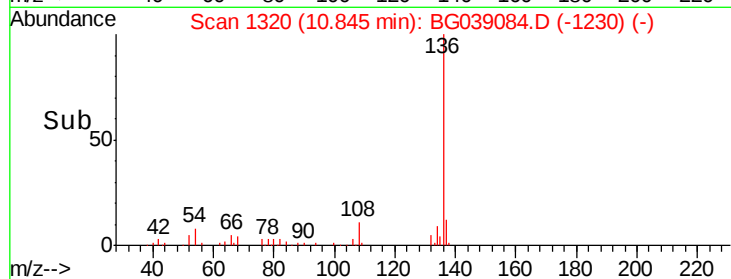
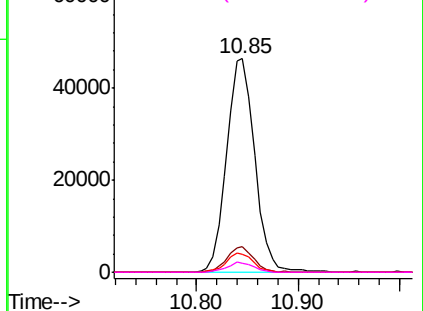
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1320  
Delta R.T. -0.00 min  
Lab File: BG039084.D  
Acq: 11 Jan 2019 11:38

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 89684    |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.8  | 9.4 14.2 |
| 54          | 8.4   | 7.2 10.8 |
| 68          | 4.0   | 3.5 5.3  |

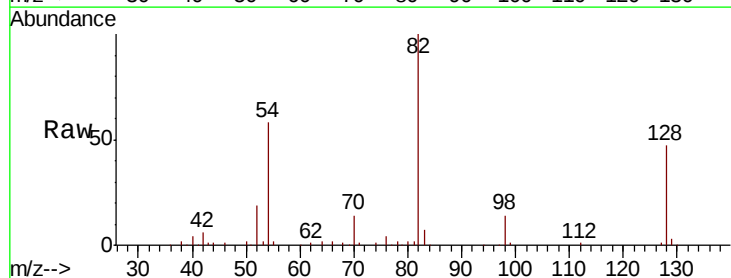


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

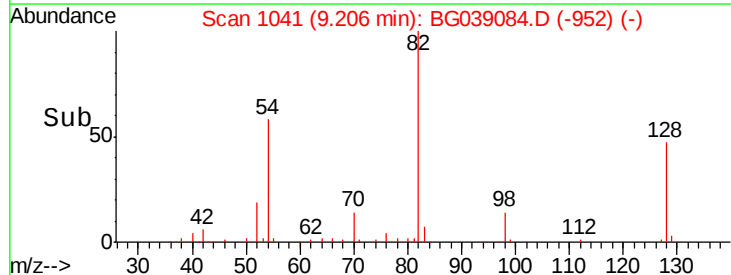
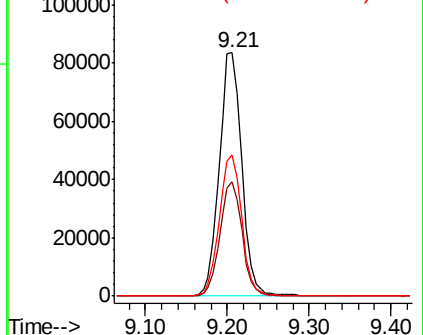


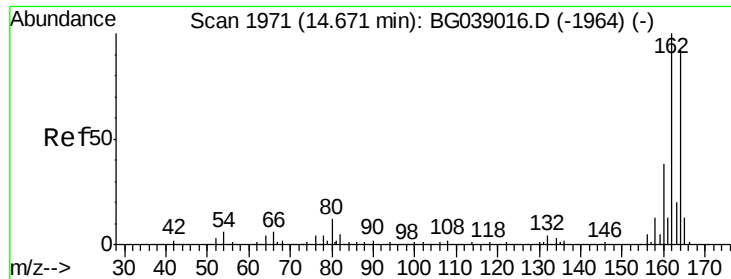
#23  
Nitrobenzene-d5  
Concen: 98.043 ng  
RT: 9.21 min Scan# 1041  
Delta R.T. -0.01 min  
Lab File: BG039084.D  
Acq: 11 Jan 2019 11:38

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 160690    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 47.0  | 37.3 55.9 |
| 54          | 58.1  | 46.4 69.6 |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.66 min Scan# 1970

Delta R.T. -0.01 min

Lab File: BG039084.D

Acq: 11 Jan 2019 11:38

Instrument :

BNA\_G

ClientSampled :

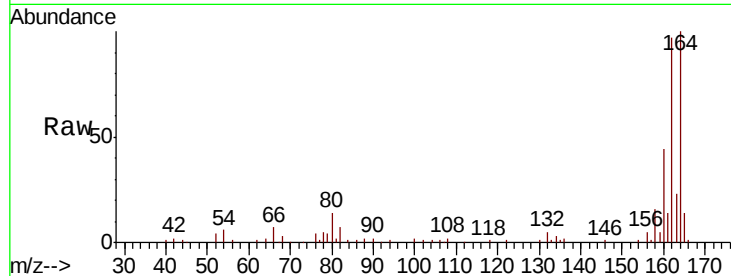
Tot Ion:164 Resp: 63448

Ion Ratio Lower Upper

164 100

162 97.2 87.2 130.8

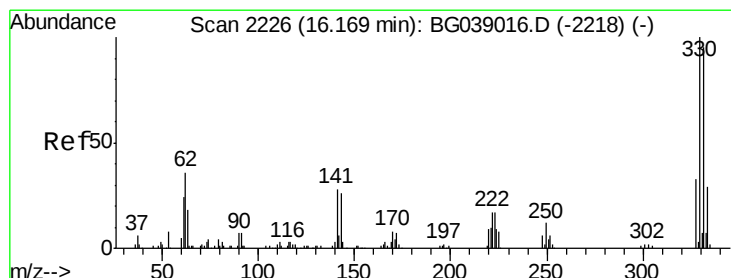
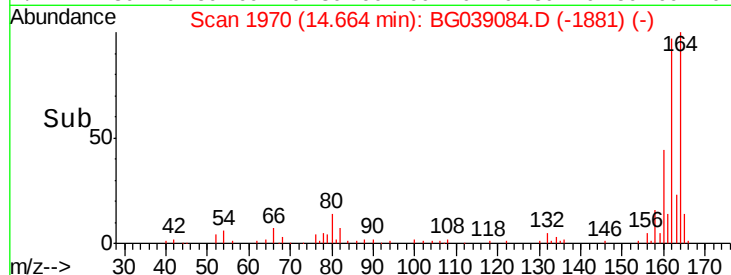
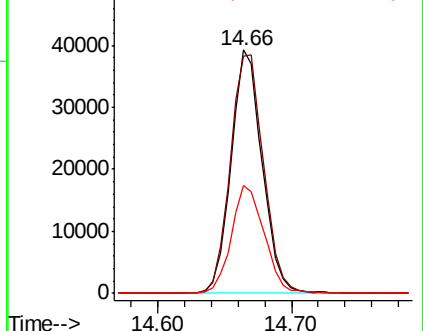
160 44.5 33.3 49.9



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: 146.694 ng

RT: 16.16 min Scan# 2225

Delta R.T. -0.01 min

Lab File: BG039084.D

Acq: 11 Jan 2019 11:38

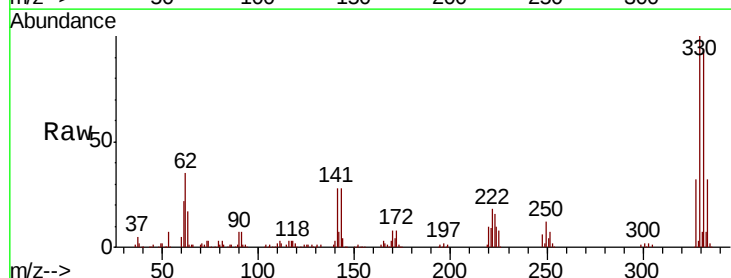
Tgt Ion:330 Resp: 156018

Ion Ratio Lower Upper

330 100

332 95.1 75.7 113.5

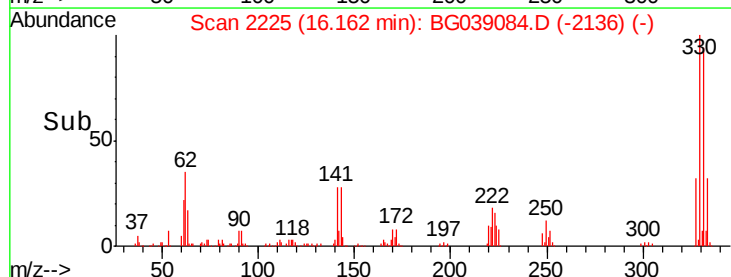
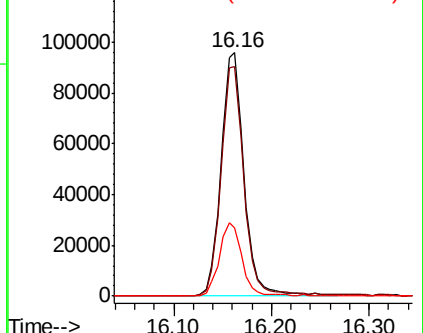
141 30.1 24.9 37.3

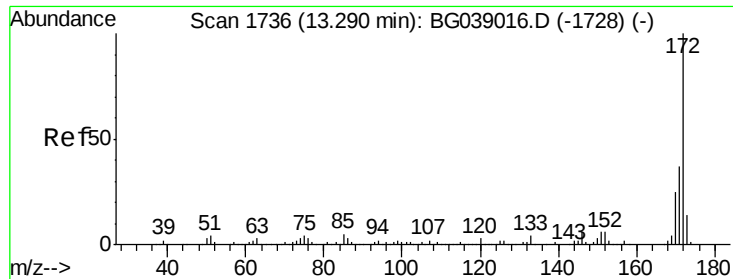


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

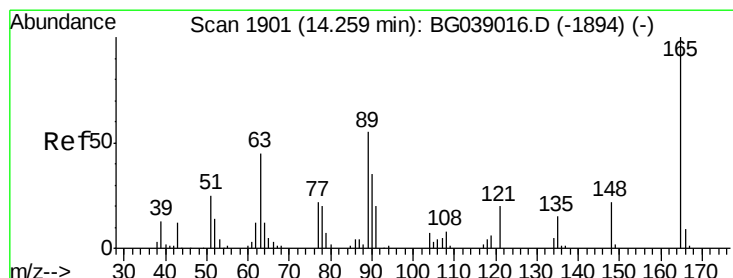
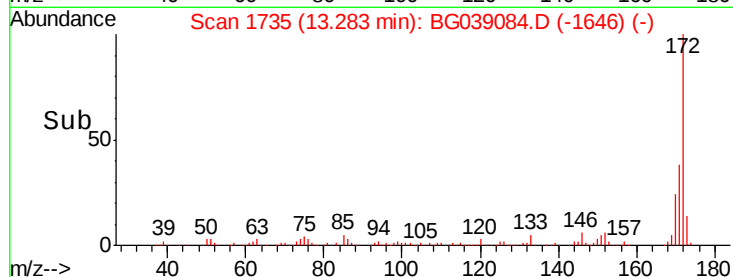
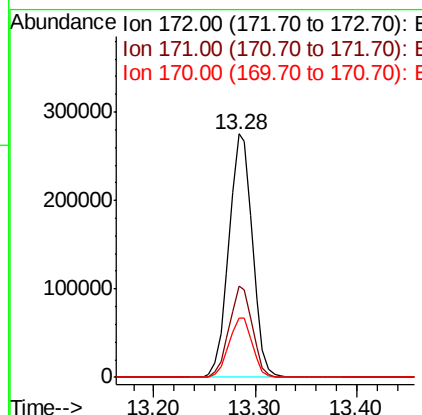
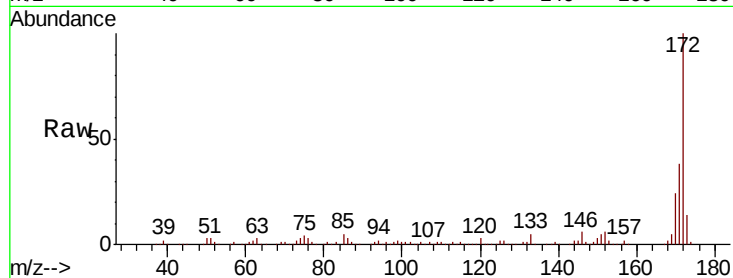




#45  
 2-Fluorobiphenyl  
 Concen: 95.712 ng  
 RT: 13.28 min Scan# 1735  
 Delta R.T. -0.01 min  
 Lab File: BG039084.D  
 Acq: 11 Jan 2019 11:38

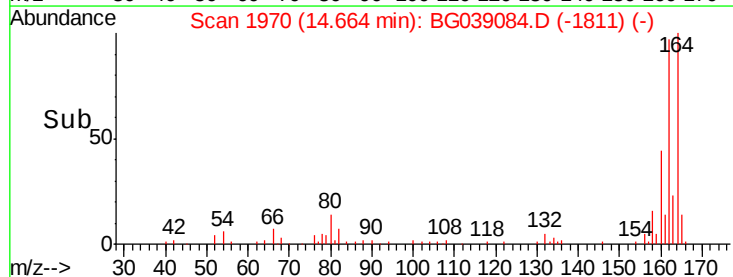
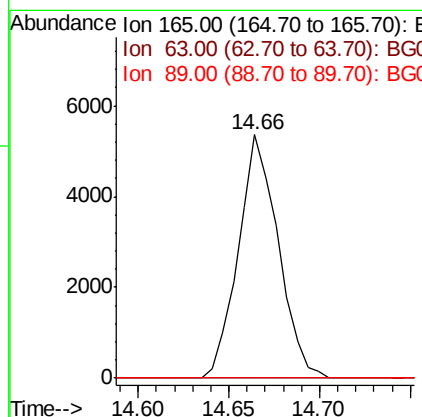
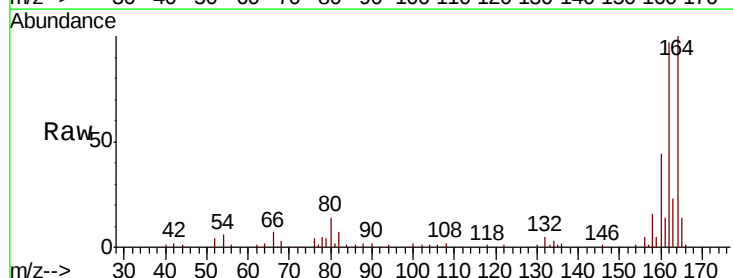
Instrument :  
 BNA\_G  
 ClientSampleId :

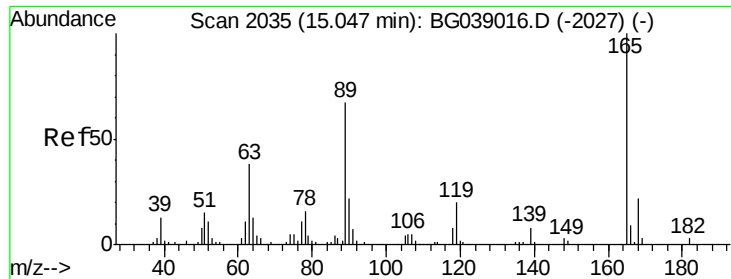
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.6  | 29.4  | 44.0  |
| 170     | 24.3  | 20.1  | 30.1  |



#51  
 2,6-Dinitrotoluene  
 Concen: 6.815 ng  
 RT: 14.66 min Scan# 1970  
 Delta R.T. 0.40 min  
 Lab File: BG039084.D  
 Acq: 11 Jan 2019 11:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 43.6  | 65.4# |
| 89      | 0.0   | 43.7  | 65.5# |

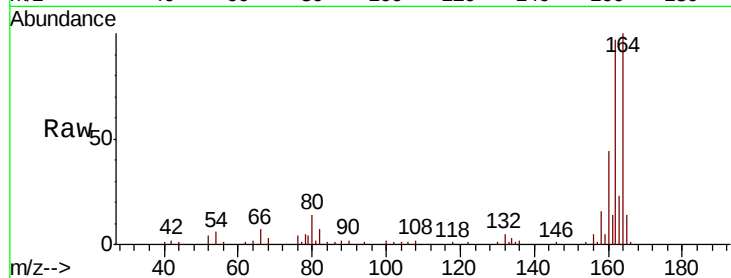




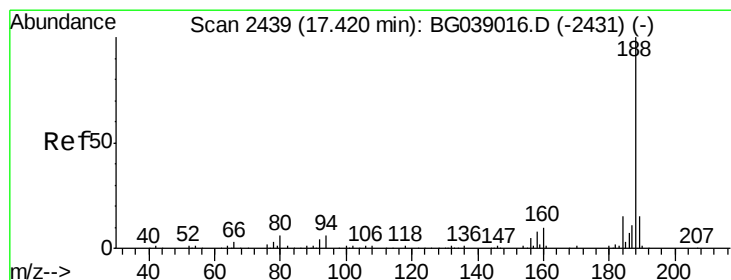
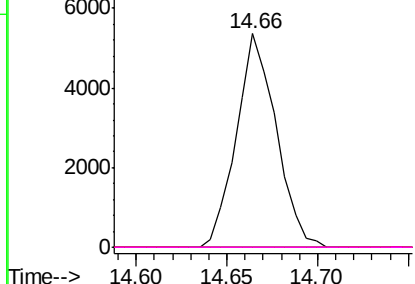
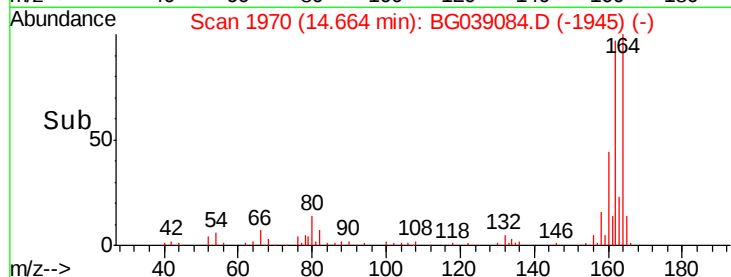
#57  
 2,4-Dinitrotoluene  
 Concen: 4.750 ng  
 RT: 14.66 min Scan# 1970  
 Delta R.T. -0.38 min  
 Lab File: BG039084.D  
 Acq: 11 Jan 2019 11:38

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:165 Resp: 8169  
 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#

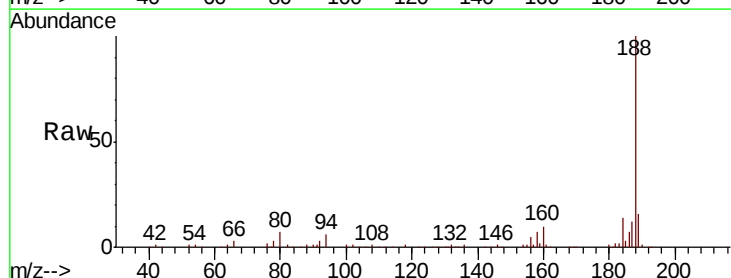


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

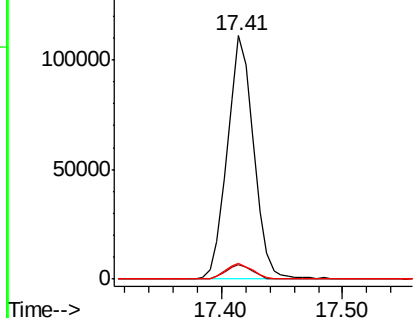
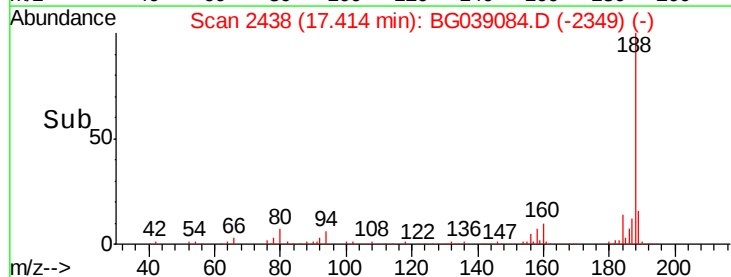


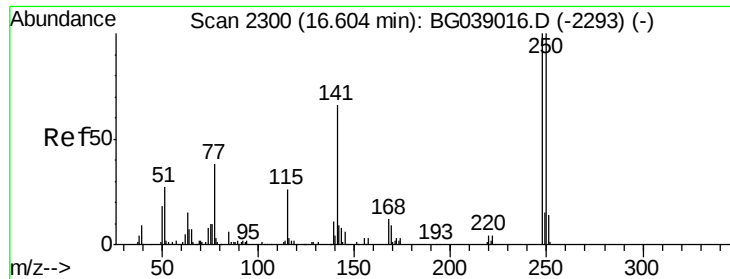
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.41 min Scan# 2438  
 Delta R.T. -0.01 min  
 Lab File: BG039084.D  
 Acq: 11 Jan 2019 11:38

Tgt Ion:188 Resp: 168501  
 Ion Ratio Lower Upper  
 188 100  
 94 5.8 5.0 7.4  
 80 6.7 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

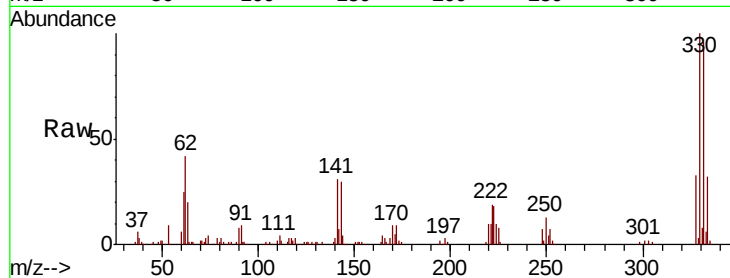




#67  
 4-Bromophenyl-phenylether  
 Concen: 4.702 ng  
 RT: 16.16 min Scan# 2224  
 Delta R.T. -0.45 min  
 Lab File: BG039084.D  
 Acq: 11 Jan 2019 11:38

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 196.9 | 79.9  | 119.9# |
| 141     | 346.2 | 52.7  | 79.1#  |

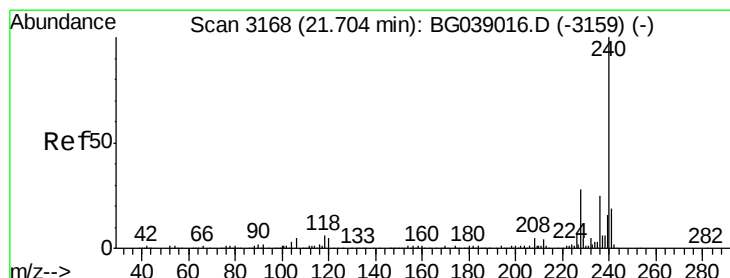
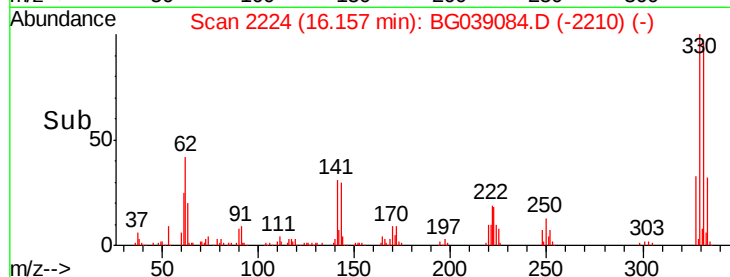
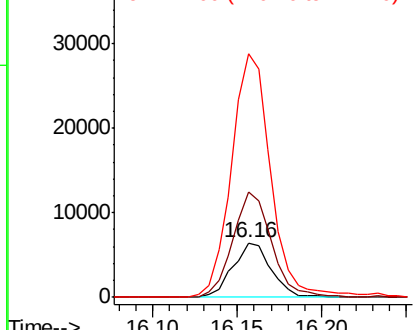


Abundance

Ion 248.00 (247.70 to 248.70): E

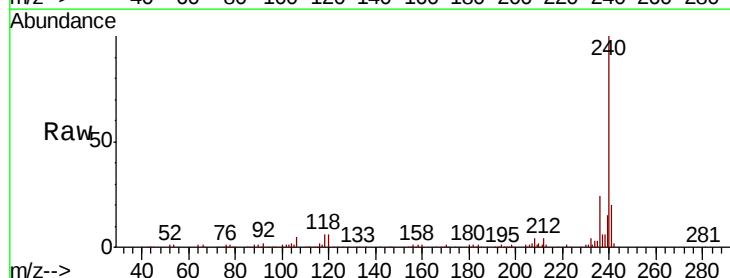
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3166  
 Delta R.T. -0.01 min  
 Lab File: BG039084.D  
 Acq: 11 Jan 2019 11:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 5.8   | 4.3   | 6.5   |
| 236     | 24.1  | 20.1  | 30.1  |

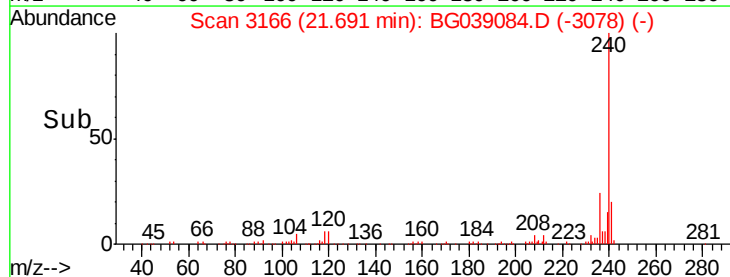
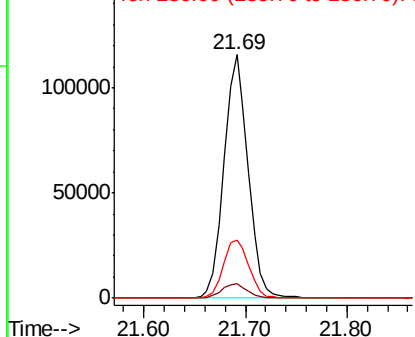


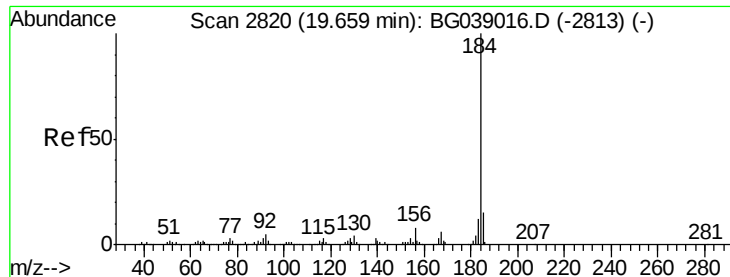
Abundance

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: 2.471 ng

RT: 20.02 min Scan# 2881

Delta R.T. 0.36 min

Lab File: BG039084.D

Acq: 11 Jan 2019 11:38

Instrument :

BNA\_G

ClientSampled :

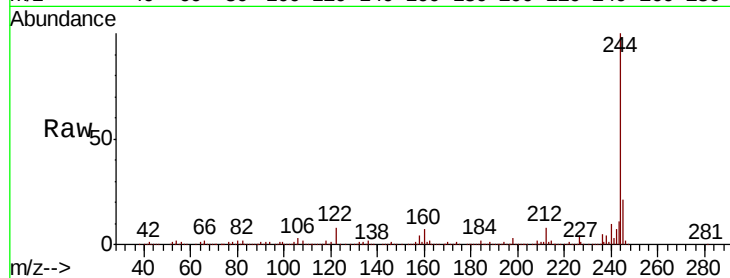
Tot Ion:184 Resp: 14372

Ion Ratio Lower Upper

184 100

185 14.5 12.1 18.1

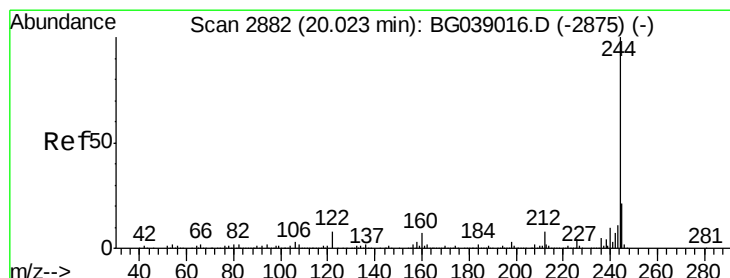
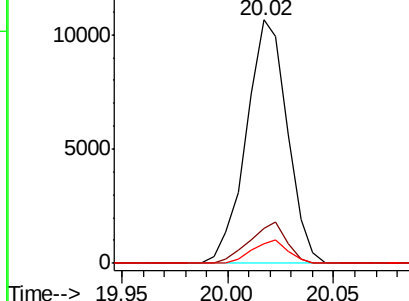
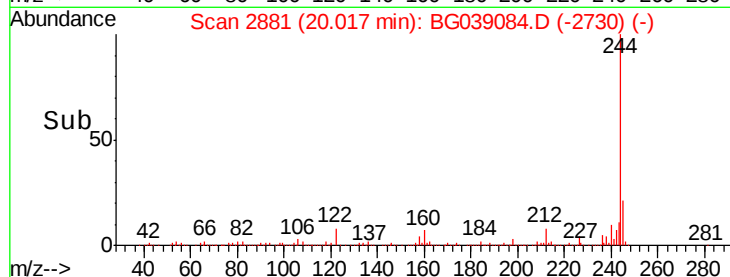
183 8.0 9.5 14.3#



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: 92.082 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BG039084.D

Acq: 11 Jan 2019 11:38

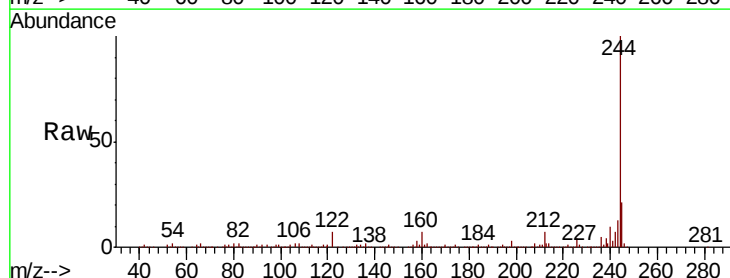
Tgt Ion:244 Resp: 946597

Ion Ratio Lower Upper

244 100

212 7.2 6.1 9.1

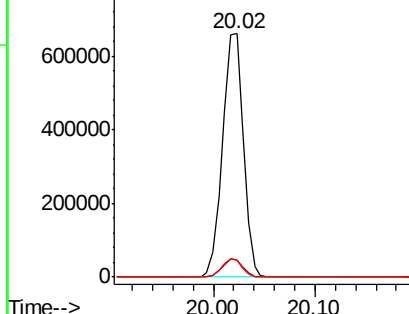
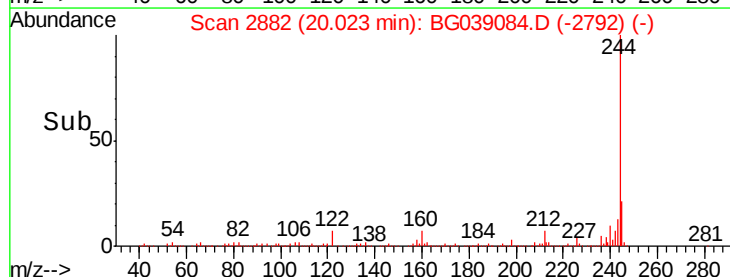
122 6.9 6.1 9.1

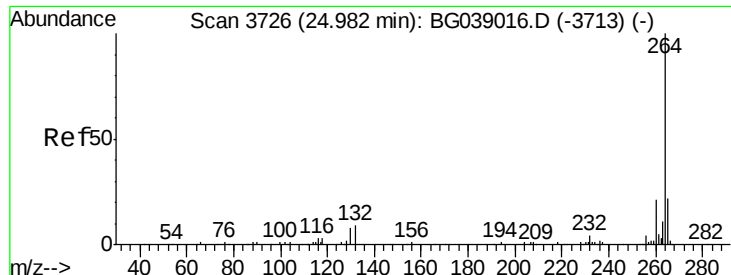


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

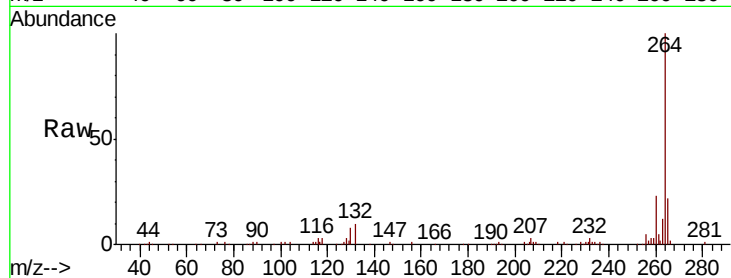




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.97 min Scan# 3724  
 Delta R.T. -0.01 min  
 Lab File: BG039084.D  
 Acq: 11 Jan 2019 11:38

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 17.0  | 25.6  |
| 265     | 21.9  | 17.2  | 25.8  |



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

