

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG121218\  
 Data File : BG038527.D  
 Acq On : 13 Dec 2018 11:29  
 Operator : JU/SJ  
 Sample : J6275-01  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 13 16:37:40 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 12 15:26:27 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.06  | 152  | 18797    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.88 | 136  | 71322    | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.69 | 164  | 46948    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.44 | 188  | 128926   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.72 | 240  | 153242   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 25.01 | 264  | 164119   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 163483   | 154.26 | ng    | 0.00     |
| 7) Phenol-d6                | 7.21  | 99   | 221747   | 152.42 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.24  | 82   | 146152   | 104.69 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.19 | 330  | 104263   | 161.14 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.31 | 172  | 342782   | 100.16 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.05 | 244  | 755706   | 107.32 | ng    | 0.00     |

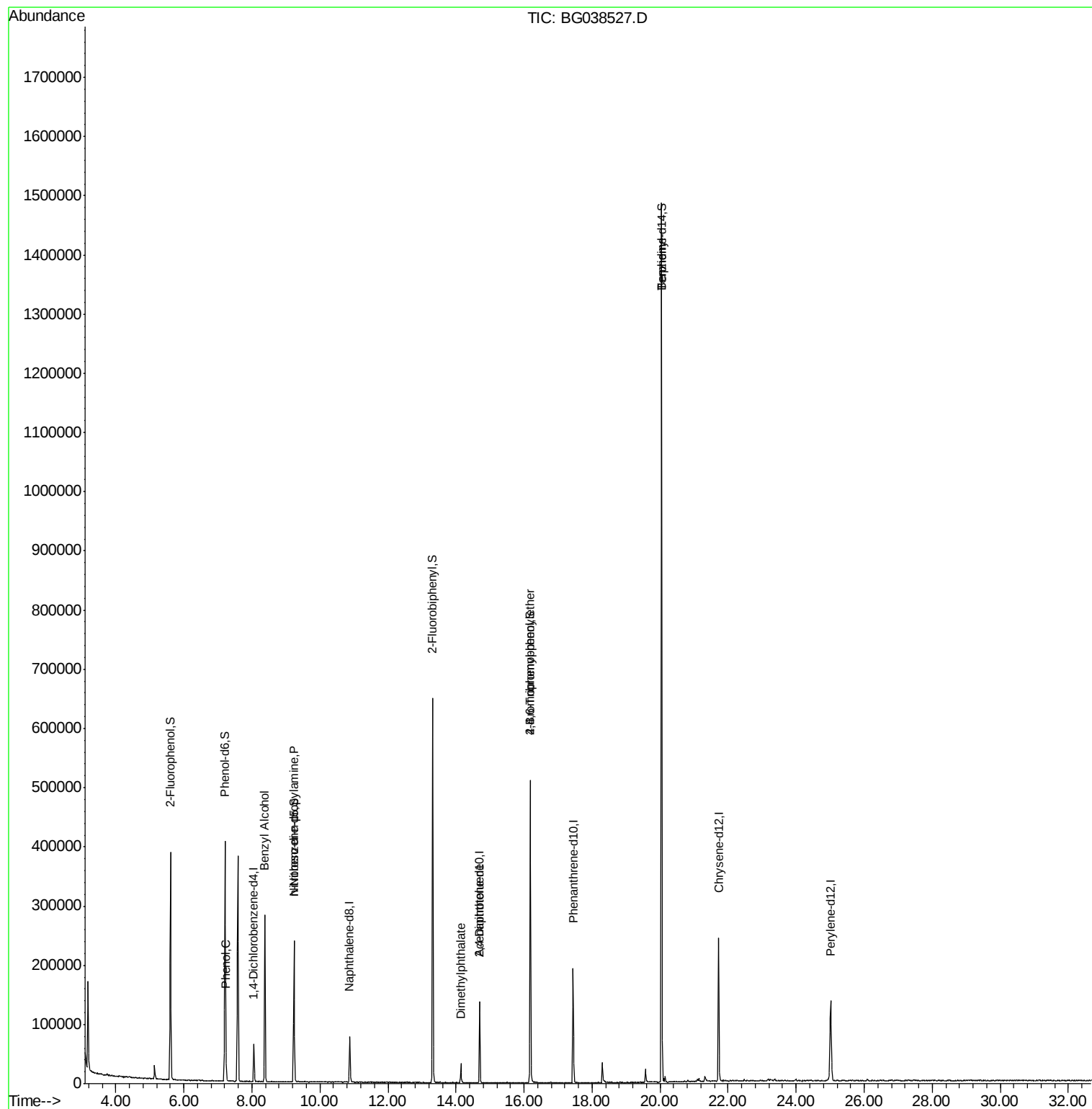
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 7.24  | 94   | 14210    | 9.193  | ng    | 97     |
| 15) Benzyl Alcohol             | 8.38  | 79   | 2404     | 2.117  | ng    | # 39   |
| 19) n-Nitroso-di-n-propylamine | 9.24  | 70   | 19780    | 19.357 | ng    | # 67   |
| 50) Dimethylphthalate          | 14.14 | 163  | 25664    | 6.694  | ng    | 97     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 6092     | 4.978  | ng    | # 21   |
| 67) 4-Bromophenyl-phenylether  | 16.18 | 248  | 6873     | 4.365  | ng    | # 1    |
| 77) Benzidine                  | 20.05 | 184  | 13014    | 2.872  | ng    | # 96   |

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

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BNA\_G  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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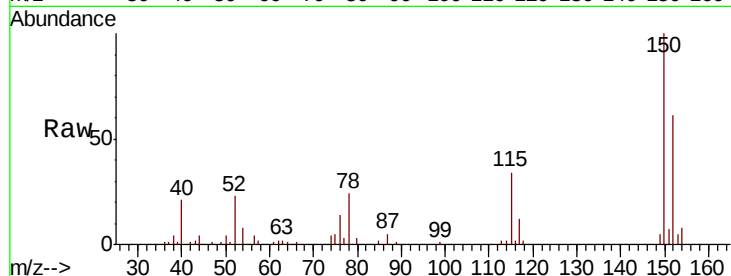


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 846  
Delta R.T. 0.00 min  
Lab File: BG038527.D  
Acq: 13 Dec 2018 11:29

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.6 | 119.5 | 179.3 |
| 115     | 55.3  | 49.6  | 74.4  |

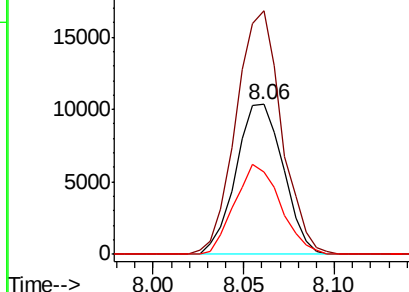
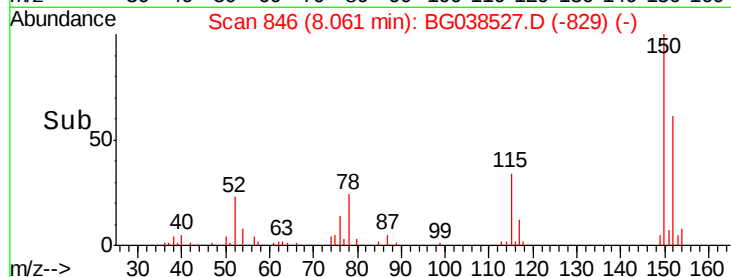


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

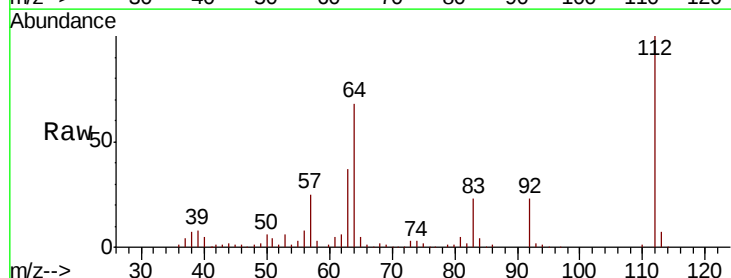
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 154.260 ng  
RT: 5.60 min Scan# 428  
Delta R.T. 0.00 min  
Lab File: BG038527.D  
Acq: 13 Dec 2018 11:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.8  | 53.4  | 80.2  |
| 63      | 36.7  | 29.3  | 43.9  |

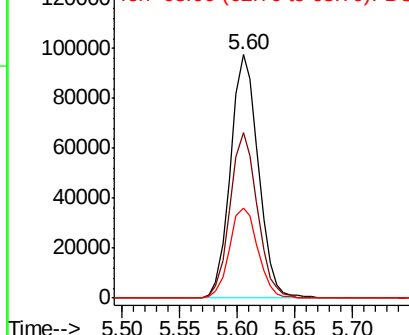
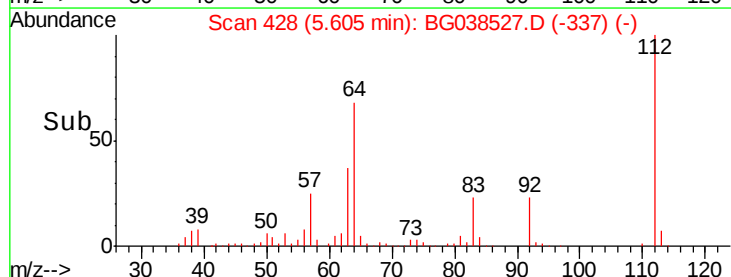


Abundance

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: 152.415 ng

RT: 7.21 min Scan# 701

Delta R.T. 0.00 min

Lab File: BG038527.D

Acq: 13 Dec 2018 11:29

Instrument :

BNA\_G

ClientSampleId :

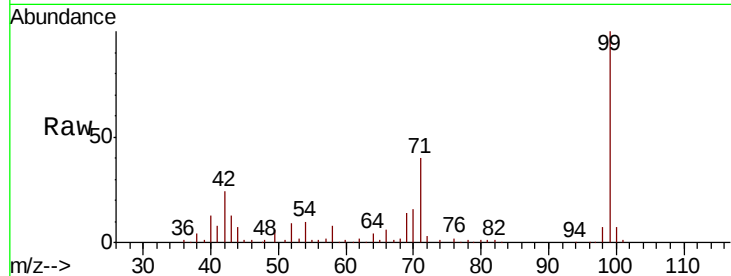
Tot Ion: 99 Resp: 221747

Ion Ratio Lower Upper

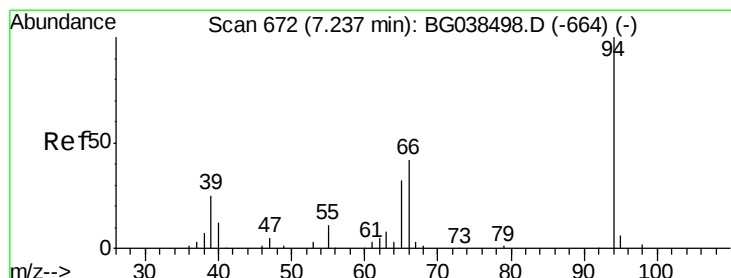
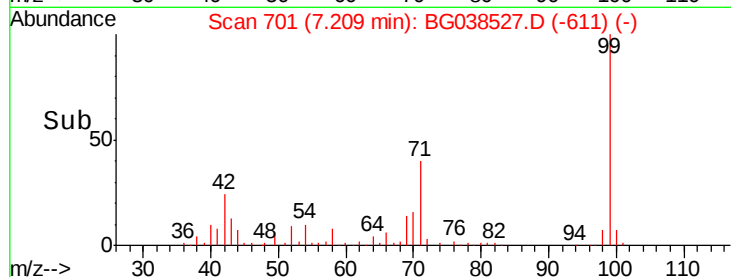
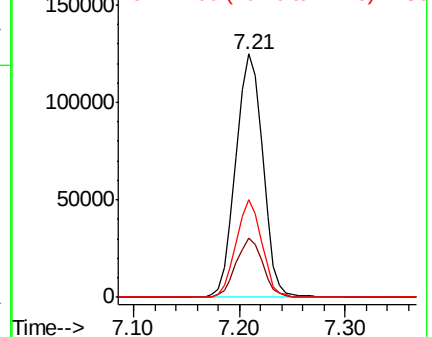
99 100

42 24.4 18.5 27.7

71 40.3 31.1 46.7



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



#10

Phenol

Concen: 9.193 ng

RT: 7.24 min Scan# 706

Delta R.T. 0.00 min

Lab File: BG038527.D

Acq: 13 Dec 2018 11:29

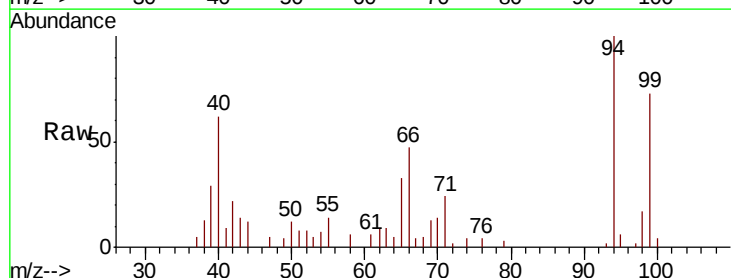
Tgt Ion: 94 Resp: 14210

Ion Ratio Lower Upper

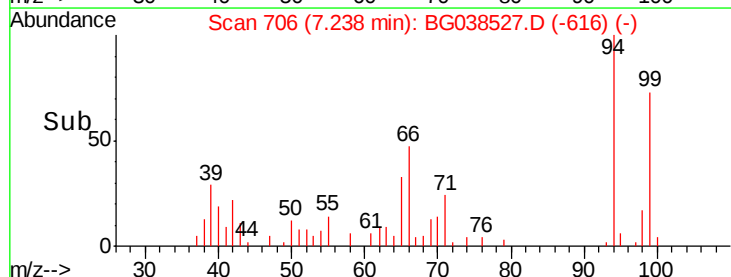
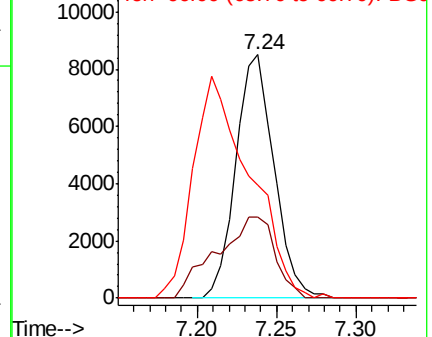
94 100

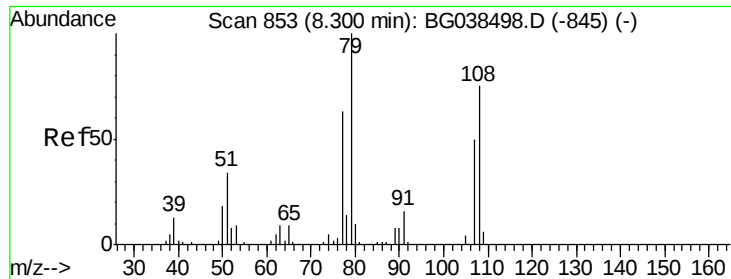
65 33.5 12.6 52.6

66 46.5 24.1 64.1



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC





#15

Benzyl Alcohol

Concen: 2.117 ng

RT: 8.38 min Scan# 901

Delta R.T. 0.08 min

Lab File: BG038527.D

Acq: 13 Dec 2018 11:29

Instrument :

BNA\_G

ClientSampleId :

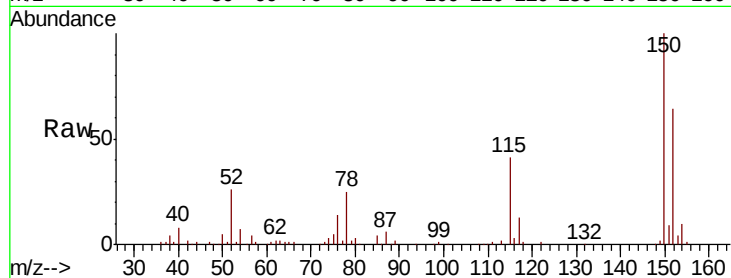
Tot Ion: 79 Resp: 2404

Ion Ratio Lower Upper

79 100

108 25.9 60.2 90.4#

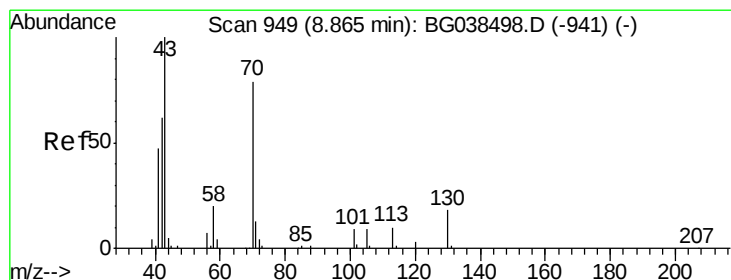
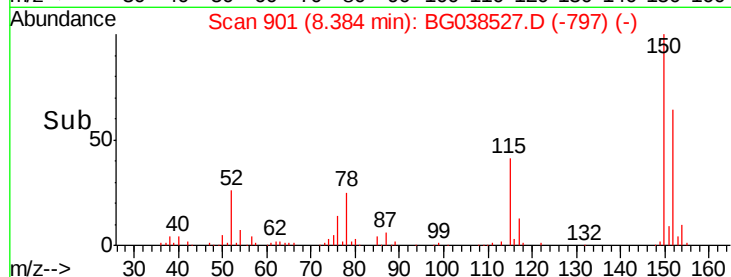
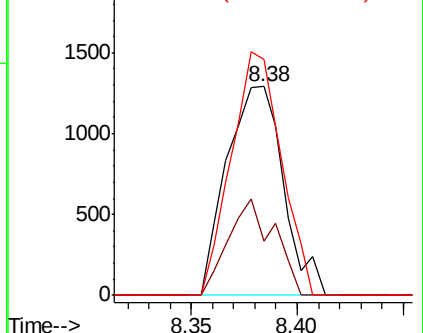
77 113.2 50.7 76.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 19.357 ng

RT: 9.24 min Scan# 1046

Delta R.T. 0.37 min

Lab File: BG038527.D

Acq: 13 Dec 2018 11:29

Tgt Ion: 70 Resp: 19780

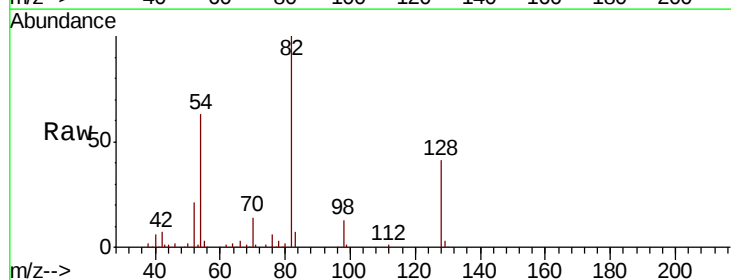
Ion Ratio Lower Upper

70 100

42 53.5 63.6 95.4#

101 0.0 9.2 13.8#

130 1.7 18.5 27.7#

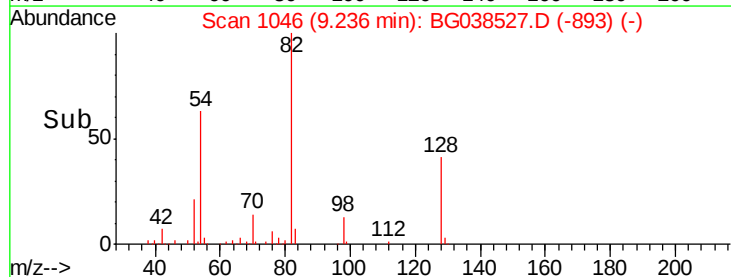
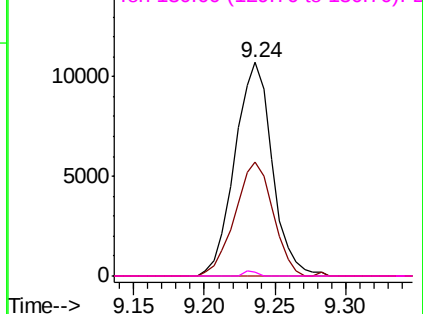


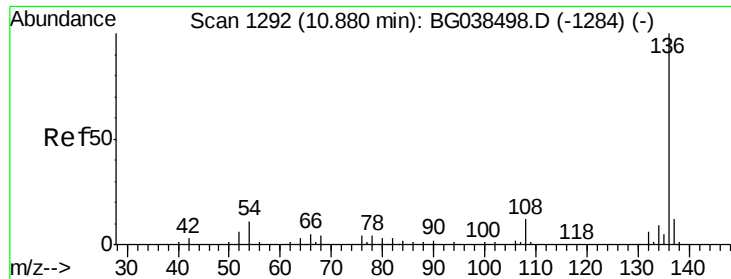
Abundance Ion 70.00 (69.70 to 70.70): BGC

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

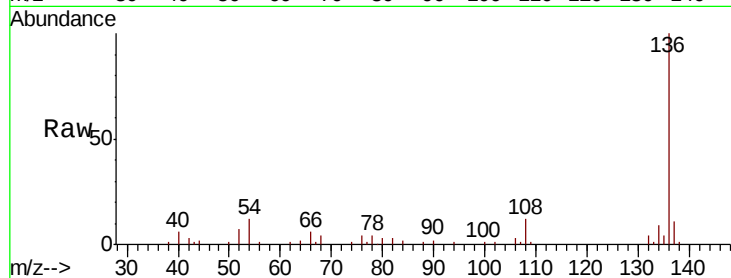




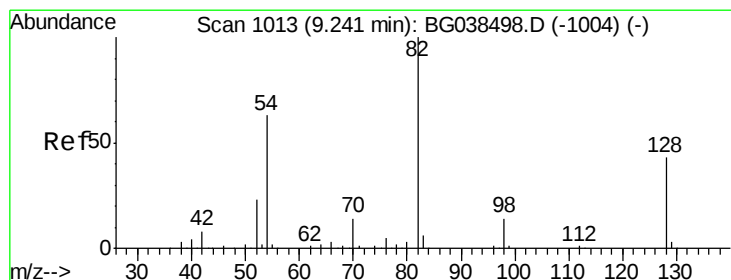
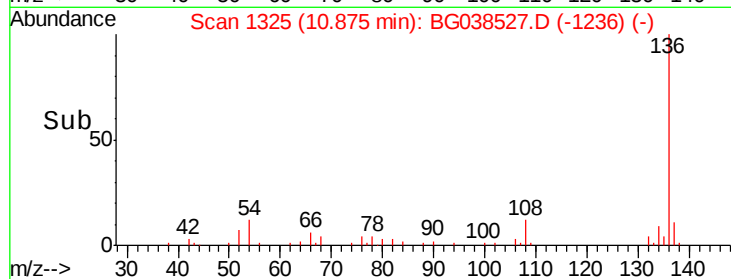
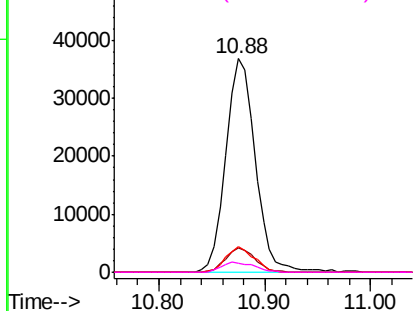
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.88 min Scan# 1325  
Delta R.T. -0.00 min  
Lab File: BG038527.D  
Acq: 13 Dec 2018 11:29

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 71322       |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.2  | 9.3 13.9    |
| 54          | 12.0  | 8.5 12.7    |
| 68          | 4.1   | 3.5 5.3     |

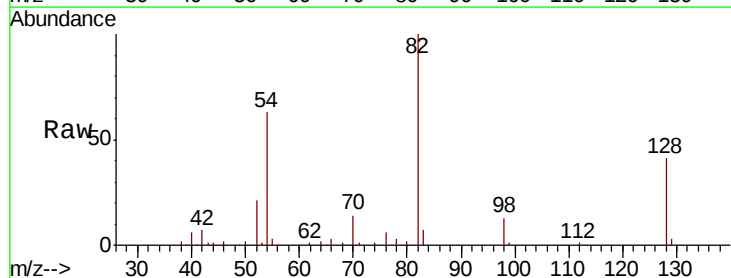


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

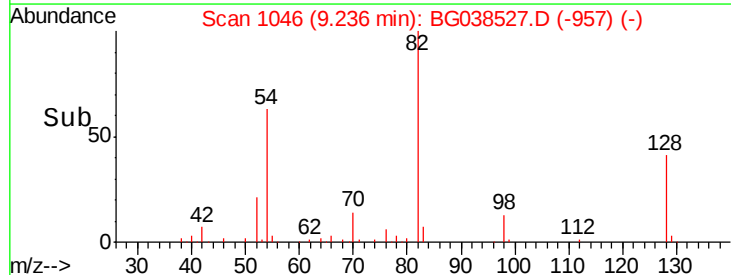
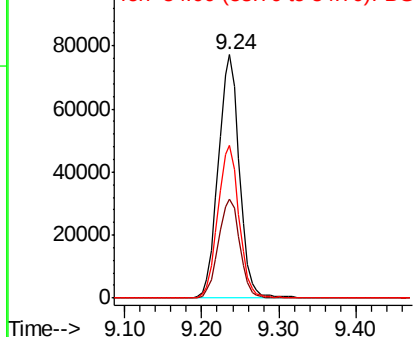


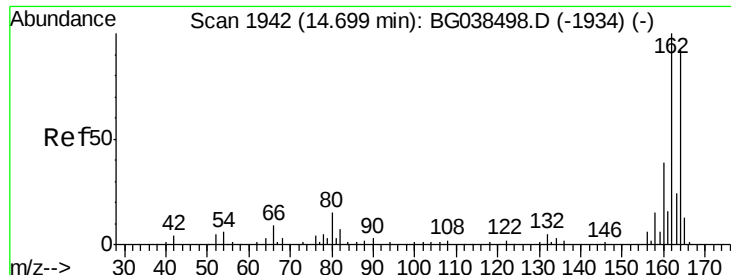
#23  
Nitrobenzene-d5  
Concen: 104.687 ng  
RT: 9.24 min Scan# 1046  
Delta R.T. -0.00 min  
Lab File: BG038527.D  
Acq: 13 Dec 2018 11:29

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 146152      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 40.9  | 34.6 52.0   |
| 54          | 62.6  | 50.6 76.0   |



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: 14.69 min Scan# 1975

Delta R.T. -0.00 min

Lab File: BG038527.D

Acq: 13 Dec 2018 11:29

Instrument :

BNA\_G

ClientSampleId :

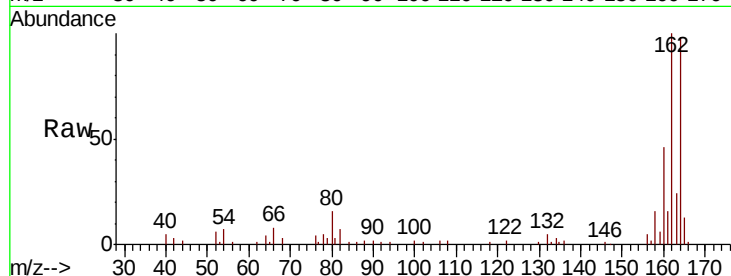
Tot Ion:164 Resp: 46948

Ion Ratio Lower Upper

164 100

162 101.8 86.6 130.0

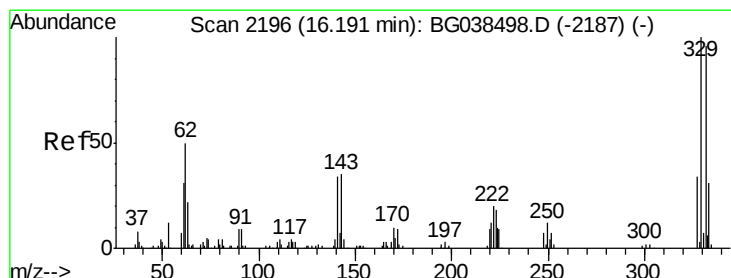
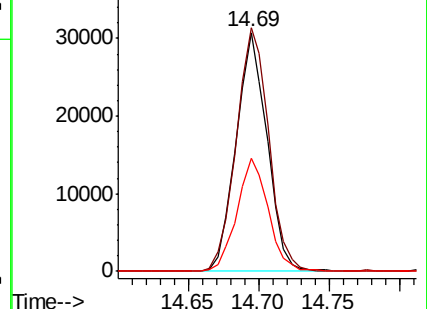
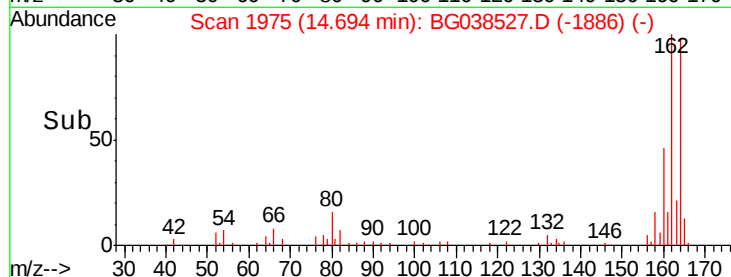
160 47.4 34.2 51.2



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: 161.141 ng

RT: 16.19 min Scan# 2229

Delta R.T. -0.00 min

Lab File: BG038527.D

Acq: 13 Dec 2018 11:29

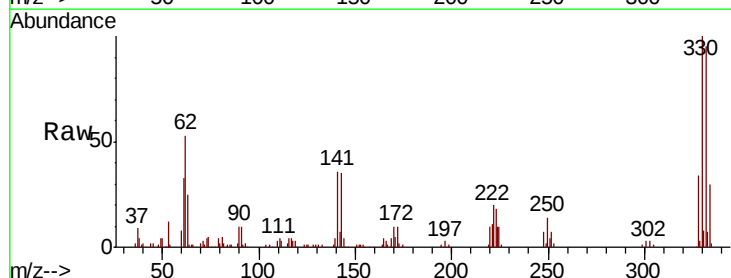
Tgt Ion:330 Resp: 104263

Ion Ratio Lower Upper

330 100

332 95.1 76.9 115.3

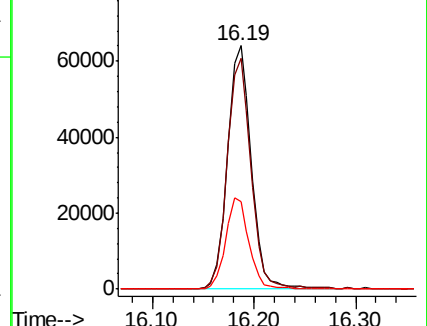
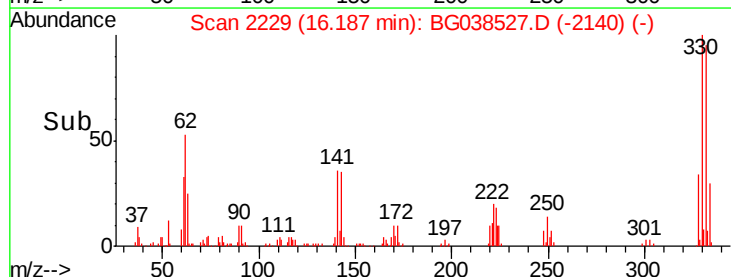
141 36.8 28.8 43.2

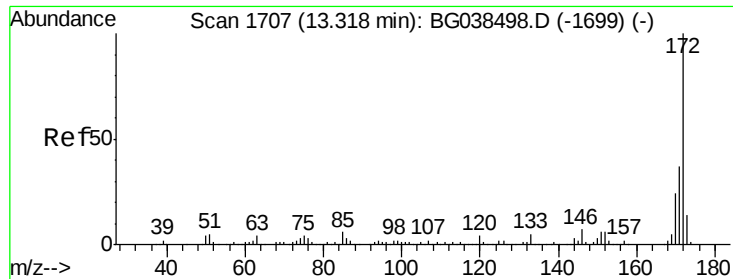


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

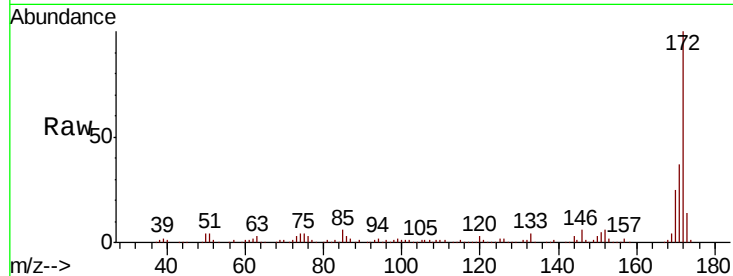




#45  
2-Fluorobiphenyl  
Concen: 100.163 ng  
RT: 13.31 min Scan# 1740  
Delta R.T. -0.00 min  
Lab File: BG038527.D  
Acq: 13 Dec 2018 11:29

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 29.8  | 44.6  |
| 170     | 24.6  | 19.5  | 29.3  |

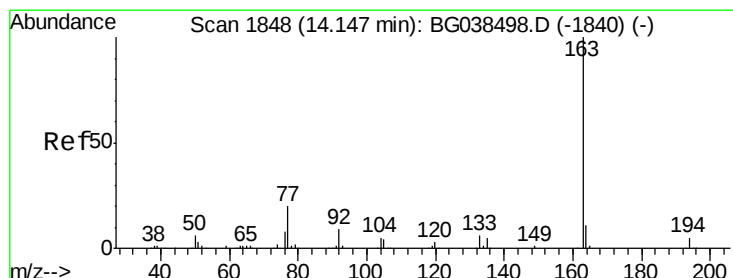
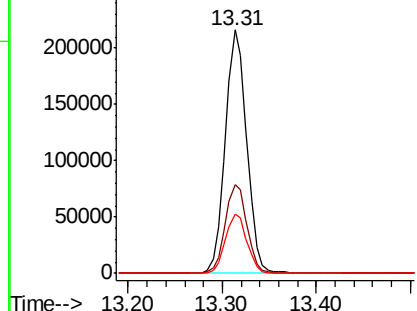
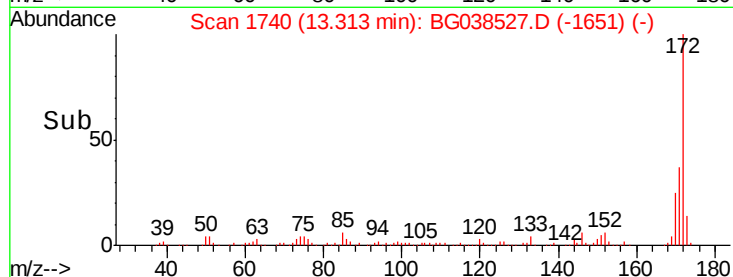


Abundance

Ion 172.00 (171.70 to 172.70): E

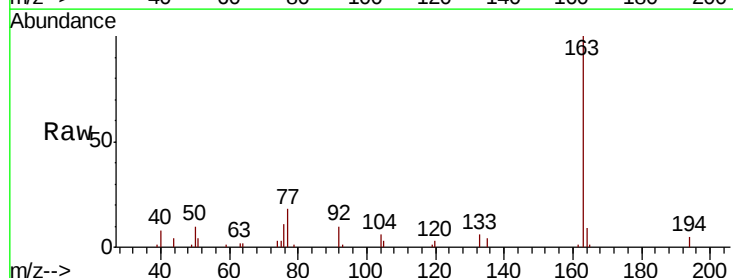
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 6.694 ng  
RT: 14.14 min Scan# 1881  
Delta R.T. -0.00 min  
Lab File: BG038527.D  
Acq: 13 Dec 2018 11:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.0   | 3.7   | 5.5   |
| 164     | 9.3   | 8.6   | 12.8  |

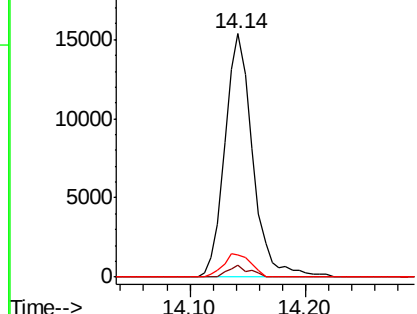
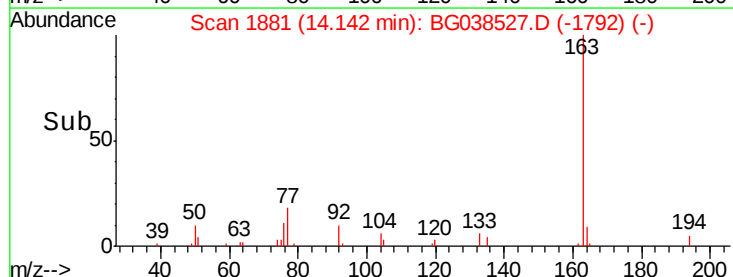


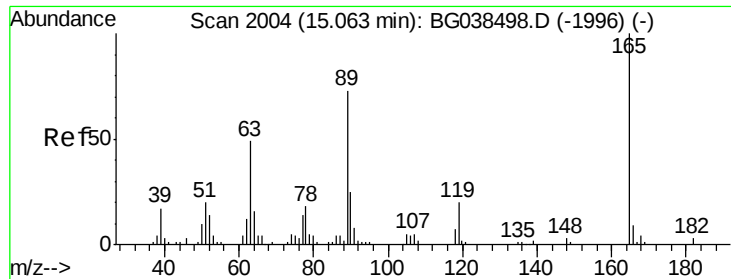
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

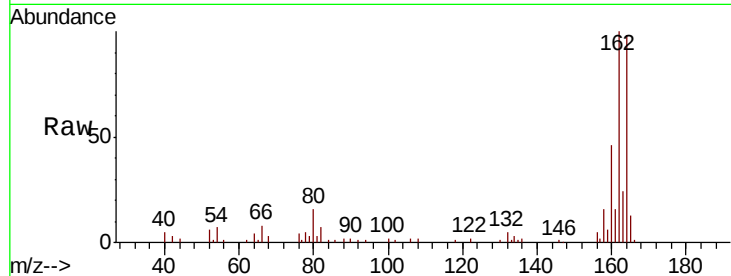




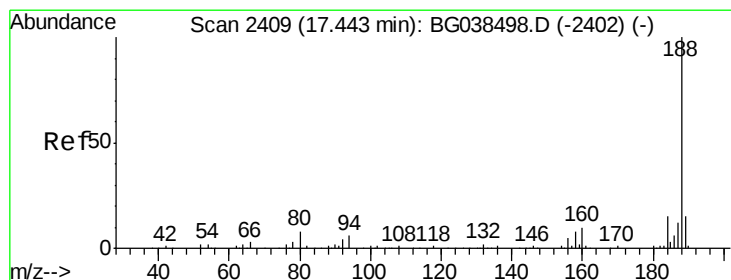
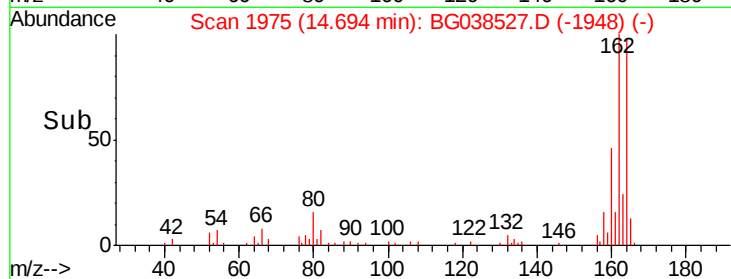
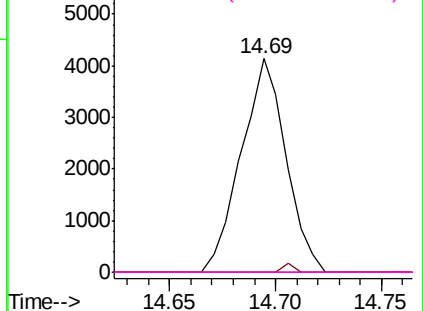
#57  
 2,4-Dinitrotoluene  
 Concen: 4.978 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. -0.37 min  
 Lab File: BG038527.D  
 Acq: 13 Dec 2018 11:29

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:165 Resp: 6092  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 39.0 58.4#  
 89 0.0 58.0 87.0#  
 182 0.0 2.3 3.5#

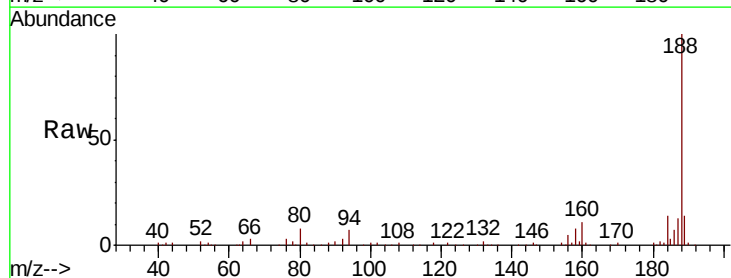


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

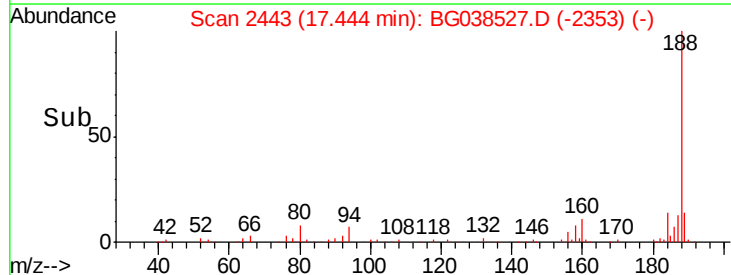
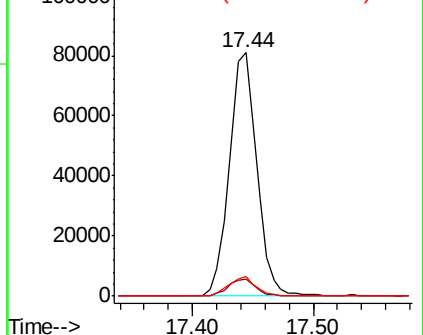


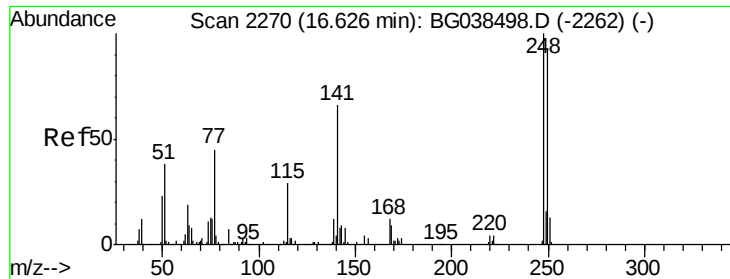
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.44 min Scan# 2443  
 Delta R.T. 0.00 min  
 Lab File: BG038527.D  
 Acq: 13 Dec 2018 11:29

Tgt Ion:188 Resp: 128926  
 Ion Ratio Lower Upper  
 188 100  
 94 7.0 5.1 7.7  
 80 8.1 6.1 9.1



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: 4.365 ng

RT: 16.18 min Scan# 2228

Delta R.T. -0.45 min

Lab File: BG038527.D

Acq: 13 Dec 2018 11:29

Instrument :

BNA\_G

ClientSampleId :

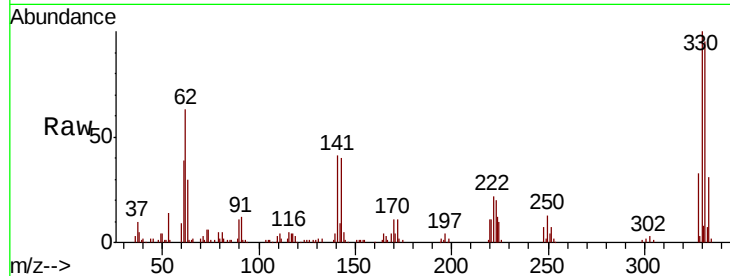
Tot Ion:248 Resp: 6873

Ion Ratio Lower Upper

248 100

250 183.6 73.4 110.2#

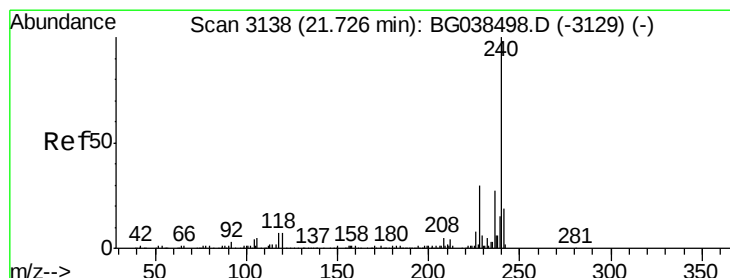
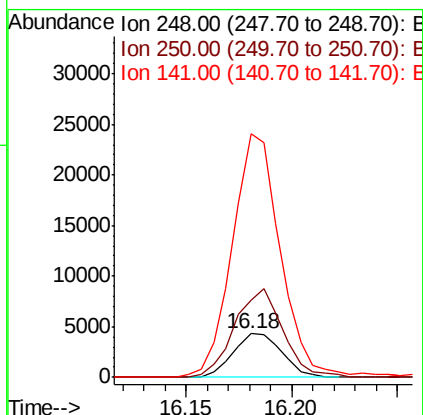
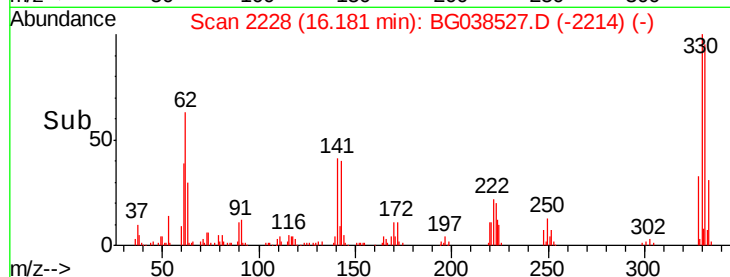
141 434.9 52.9 79.3#



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: 21.72 min Scan# 3170

Delta R.T. -0.01 min

Lab File: BG038527.D

Acq: 13 Dec 2018 11:29

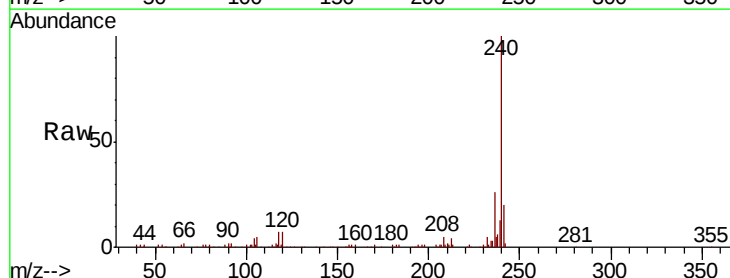
Tgt Ion:240 Resp: 153242

Ion Ratio Lower Upper

240 100

120 7.4 5.3 7.9

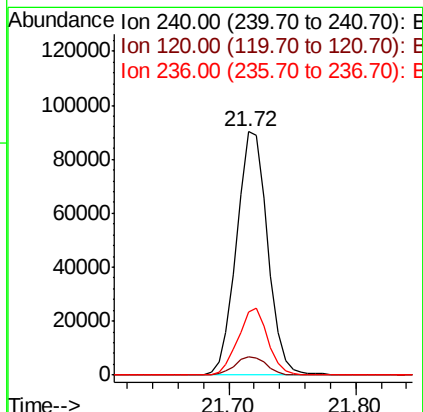
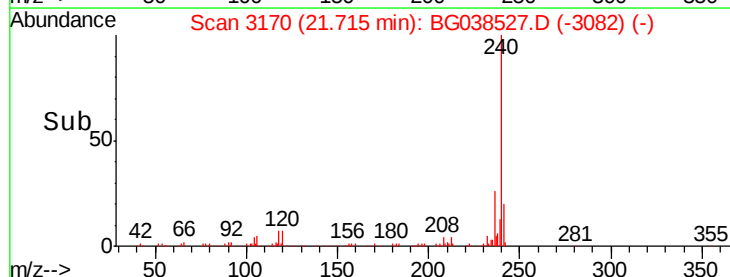
236 25.7 21.4 32.2

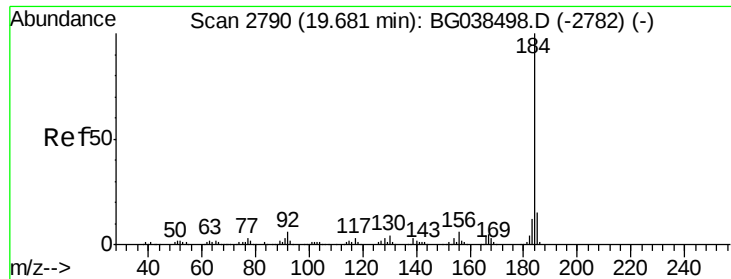


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.872 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.37 min

Lab File: BG038527.D

Acq: 13 Dec 2018 11:29

Instrument :

BNA\_G

ClientSampleId :

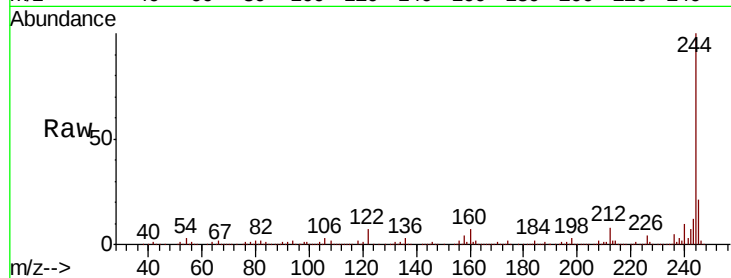
Tot Ion:184 Resp: 13014

Ion Ratio Lower Upper

184 100

185 15.4 12.2 18.2

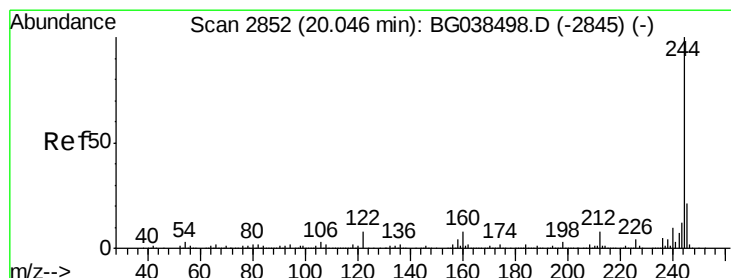
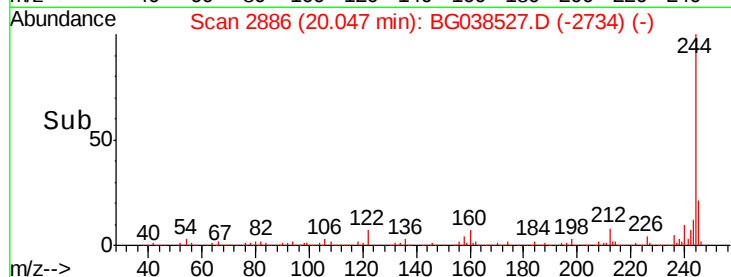
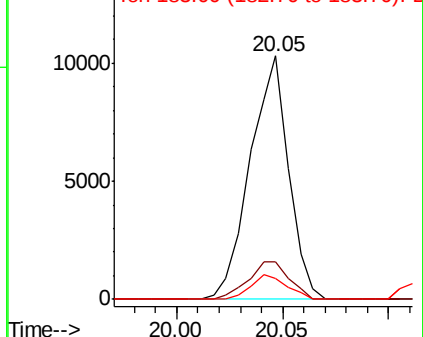
183 8.3 9.6 14.4#



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: 107.325 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.00 min

Lab File: BG038527.D

Acq: 13 Dec 2018 11:29

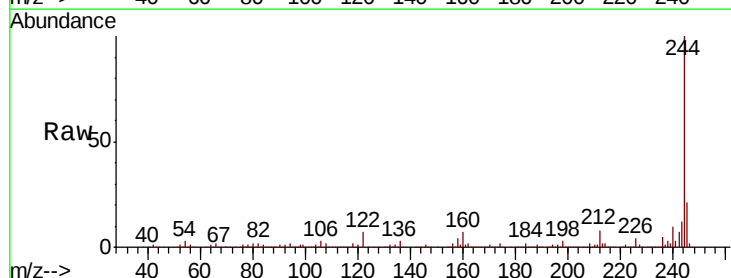
Tgt Ion:244 Resp: 755706

Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.2

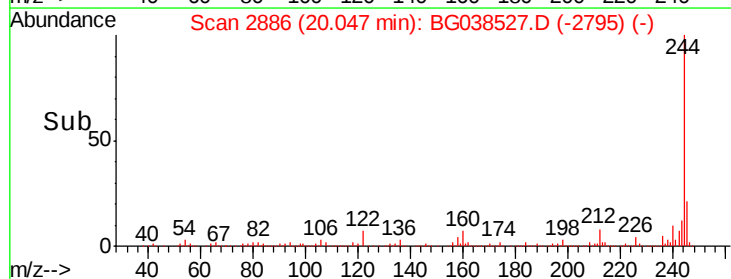
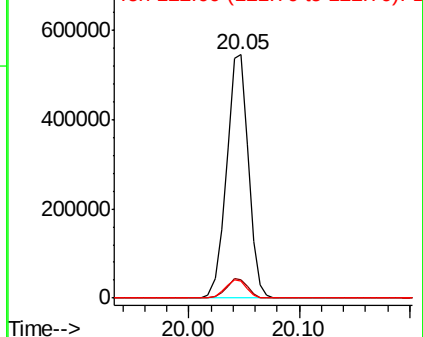
122 6.9 6.3 9.5

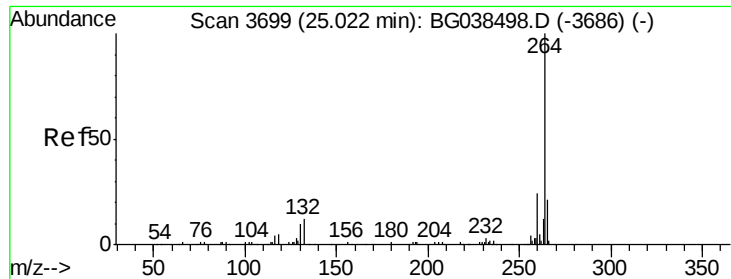


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

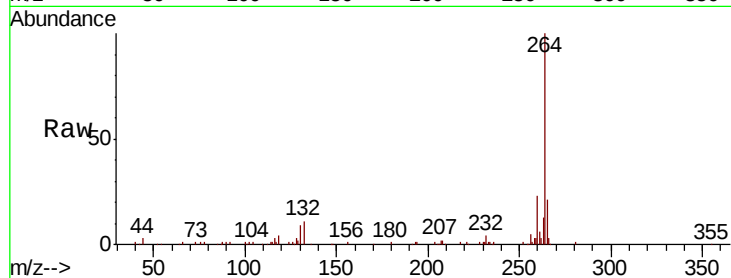




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 25.01 min Scan# 3731  
 Delta R.T. -0.01 min  
 Lab File: BG038527.D  
 Acq: 13 Dec 2018 11:29

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.7  | 18.9  | 28.3  |
| 265     | 21.4  | 17.0  | 25.4  |



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

