

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG122018\  
 Data File : BG038774.D  
 Acq On : 20 Dec 2018 22:50  
 Operator : JU/SJ  
 Sample : J6475-02RE  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SLUDGE

Quant Time: Dec 21 00:23:14 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

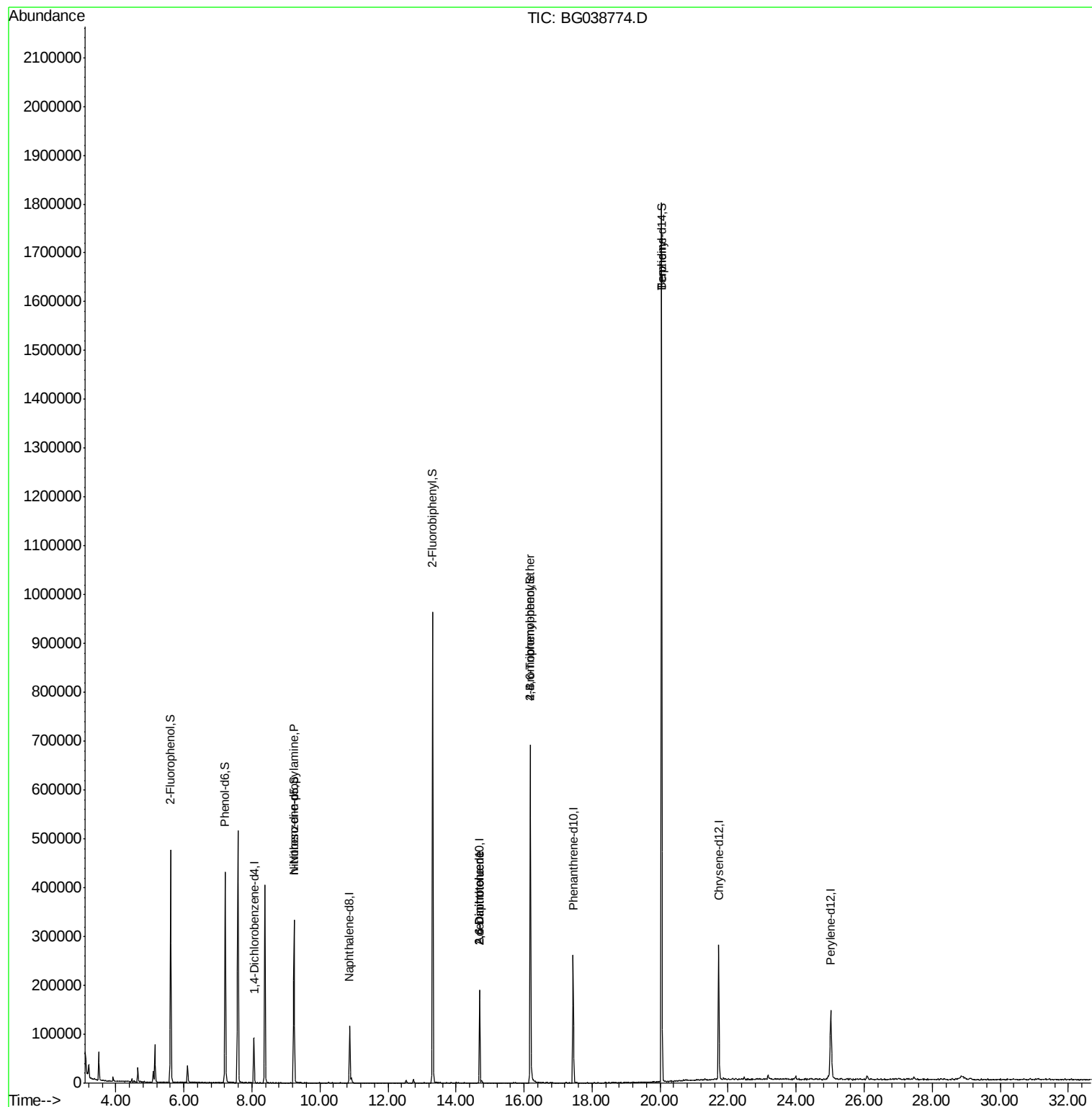
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 27493    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.87 | 136  | 104589   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.69 | 164  | 71068    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.44 | 188  | 175795   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.72 | 240  | 180087   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.02 | 264  | 186849   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 203453   | 131.25 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 244125   | 114.72 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.24  | 82   | 197612   | 96.52  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.19 | 330  | 159179   | 162.52 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 512126   | 98.86  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.05 | 244  | 959872   | 116.00 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.24  | 70   | 26915    | 18.009 | ng    | # 70     |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 9196     | 6.992  | ng    | # 19     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 9196     | 4.964  | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether  | 16.19 | 248  | 9863     | 4.594  | ng    | # 1      |
| 77) Benzidine                  | 20.05 | 184  | 15827    | 2.972  | ng    | # 93     |

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

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QLast Update : Wed Dec 12 15:26:27 2018  
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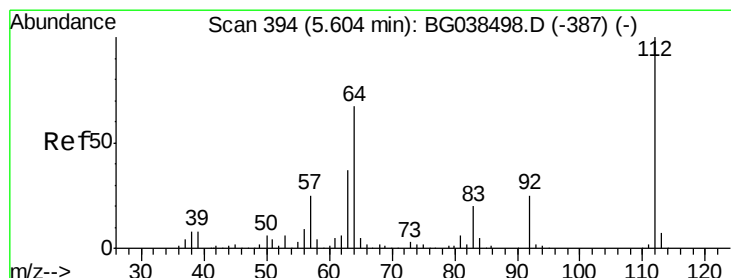
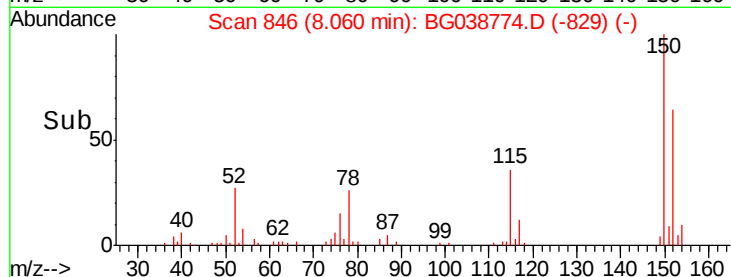
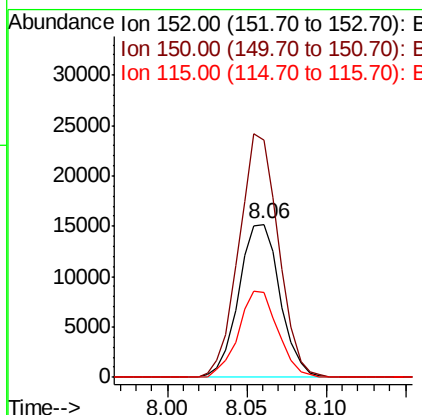
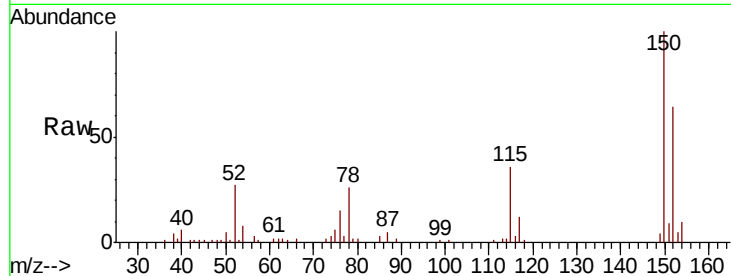




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.06 min Scan# 846  
 Delta R.T. 0.00 min  
 Lab File: BG038774.D  
 Acq: 20 Dec 2018 22:50

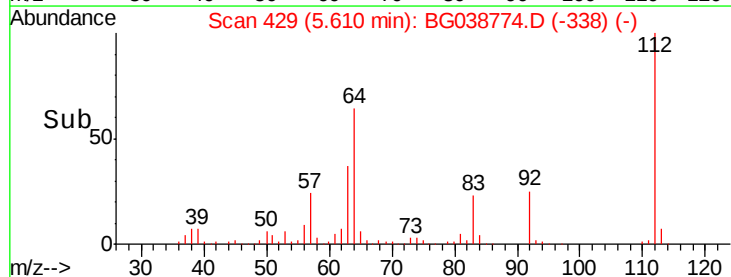
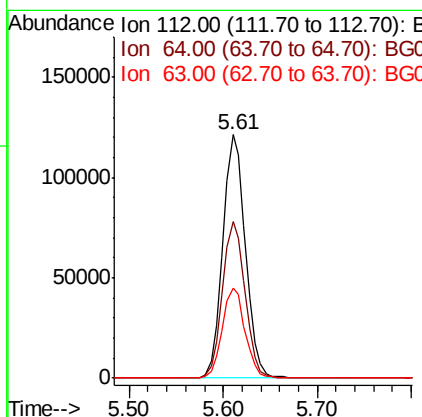
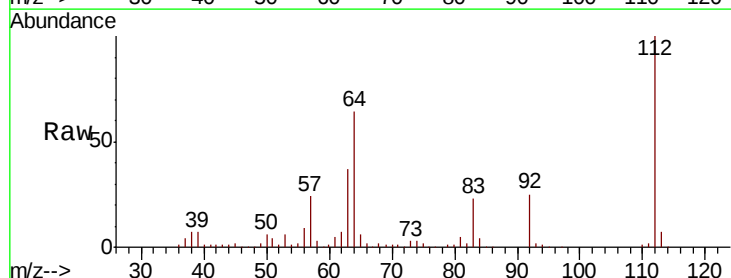
Instrument :  
 BNA\_G  
 ClientSampleId :  
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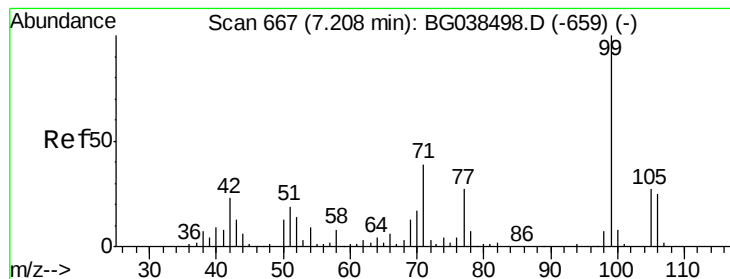
Tgt Ion:152 Resp: 27493  
 Ion Ratio Lower Upper  
 152 100  
 150 155.6 119.5 179.3  
 115 55.7 49.6 74.4



#5  
 2-Fluorophenol  
 Concen: 131.253 ng  
 RT: 5.61 min Scan# 429  
 Delta R.T. 0.01 min  
 Lab File: BG038774.D  
 Acq: 20 Dec 2018 22:50

Tgt Ion:112 Resp: 203453  
 Ion Ratio Lower Upper  
 112 100  
 64 64.2 53.4 80.2  
 63 37.2 29.3 43.9





#7

Phenol-d6

Concen: 114.723 ng

RT: 7.21 min Scan# 702

Delta R.T. 0.01 min

Lab File: BG038774.D

Acq: 20 Dec 2018 22:50

Instrument :

BNA\_G

ClientSampleId :

SLUDGE

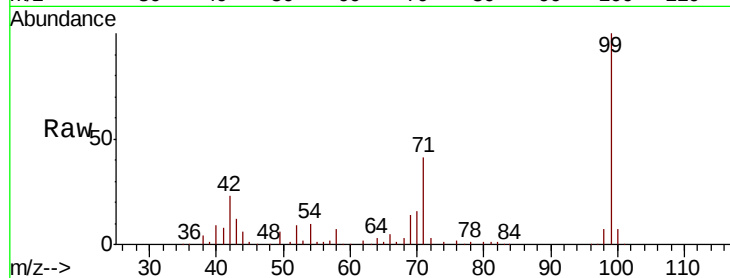
Tgt Ion: 99 Resp: 244125

Ion Ratio Lower Upper

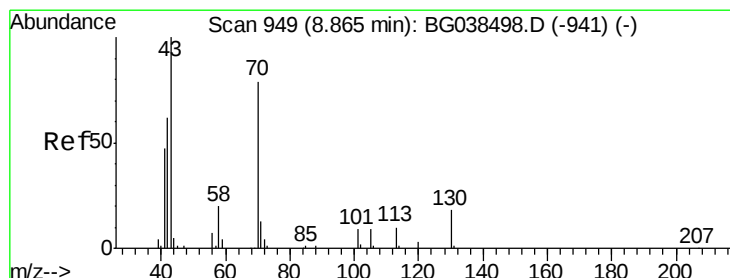
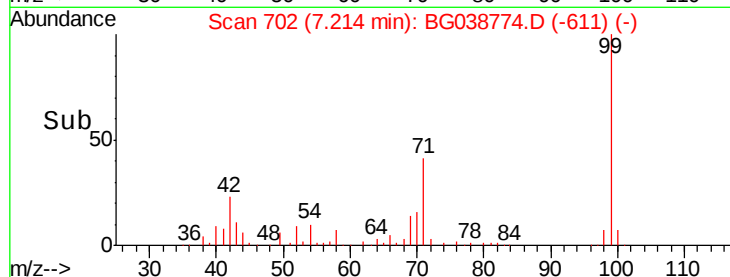
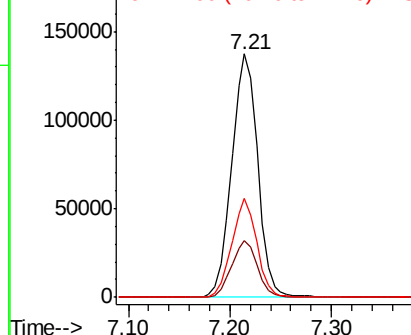
99 100

42 23.5 18.5 27.7

71 40.9 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



#19

n-Nitroso-di-n-propylamine

Concen: 18.009 ng

RT: 9.24 min Scan# 1046

Delta R.T. 0.37 min

Lab File: BG038774.D

Acq: 20 Dec 2018 22:50

Tgt Ion: 70 Resp: 26915

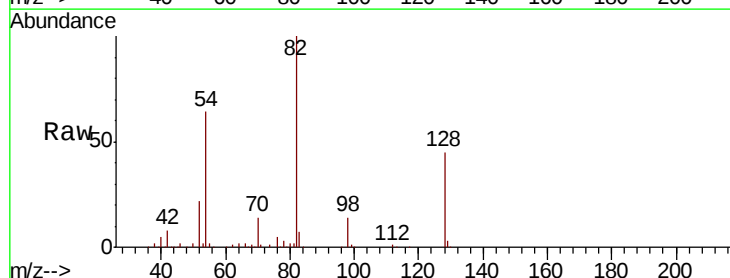
Ion Ratio Lower Upper

70 100

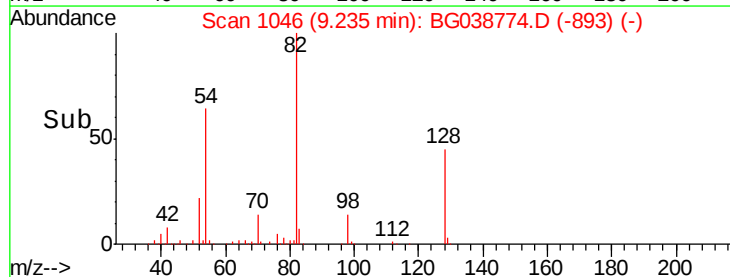
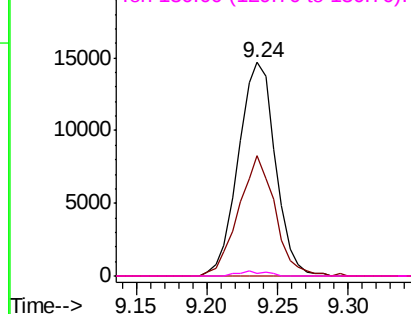
42 56.5 63.6 95.4#

101 0.0 9.2 13.8#

130 1.4 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

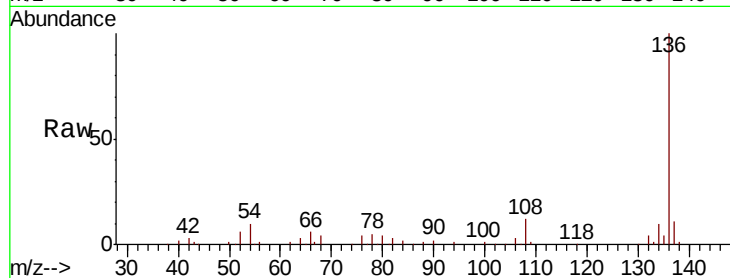




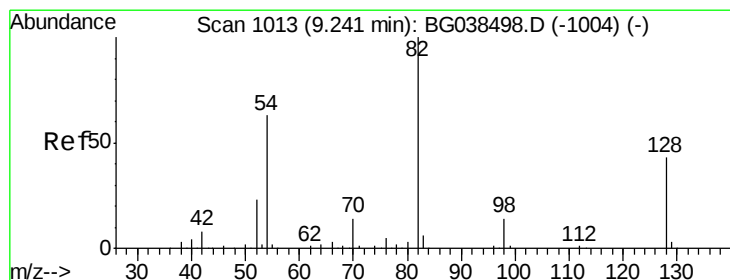
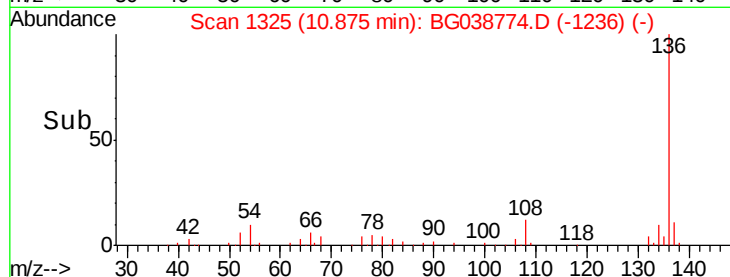
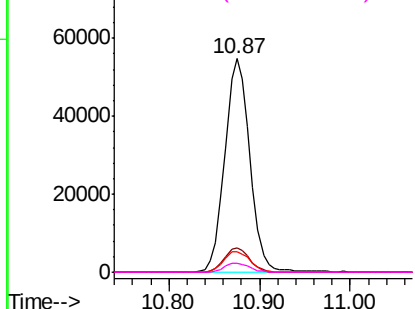
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BG038774.D  
Acq: 20 Dec 2018 22:50

Instrument :  
BNA\_G  
ClientSampleId :  
SLUDGE

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 104589 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 9.3   | 13.9   |
| 54       | 9.7   | 8.5   | 12.7   |
| 68       | 4.4   | 3.5   | 5.3    |

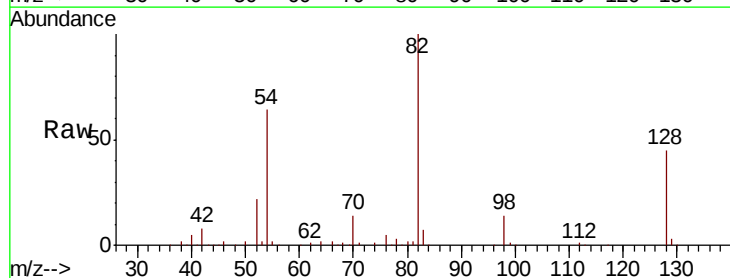


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

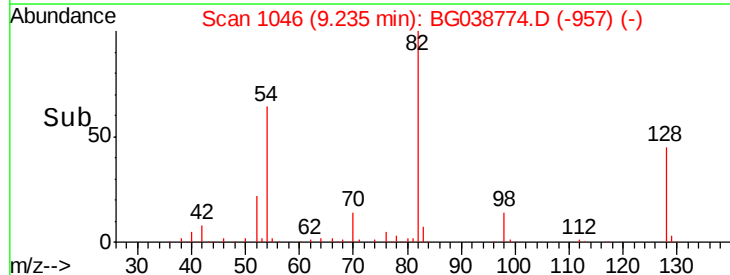
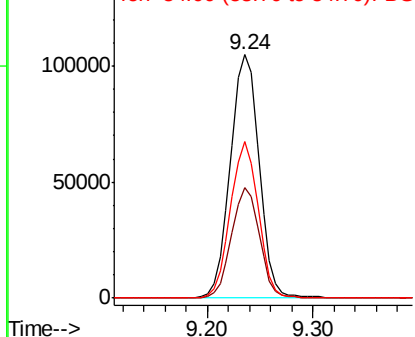


#23  
Nitrobenzene-d5  
Concen: 96.525 ng  
RT: 9.24 min Scan# 1046  
Delta R.T. -0.01 min  
Lab File: BG038774.D  
Acq: 20 Dec 2018 22:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 197612 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.2  | 34.6  | 52.0   |
| 54       | 64.1  | 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. -0.01 min

Lab File: BG038774.D

Acq: 20 Dec 2018 22:50

Instrument :

BNA\_G

ClientSampleId :

SLUDGE

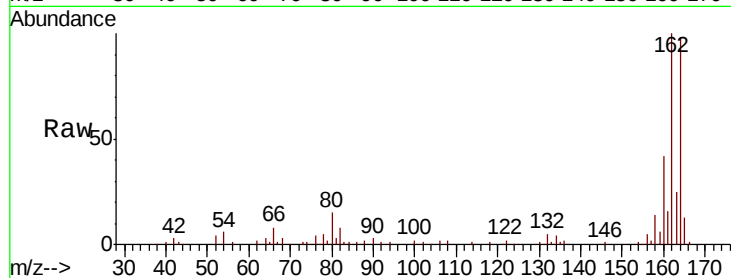
Tgt Ion:164 Resp: 71068

Ion Ratio Lower Upper

164 100

162 102.1 86.6 130.0

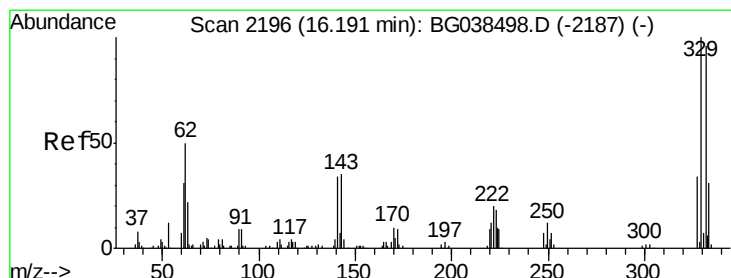
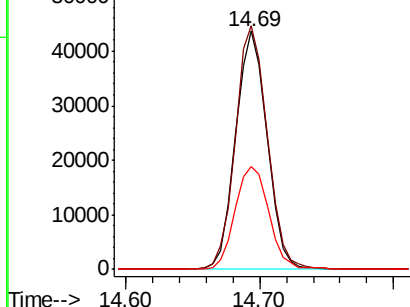
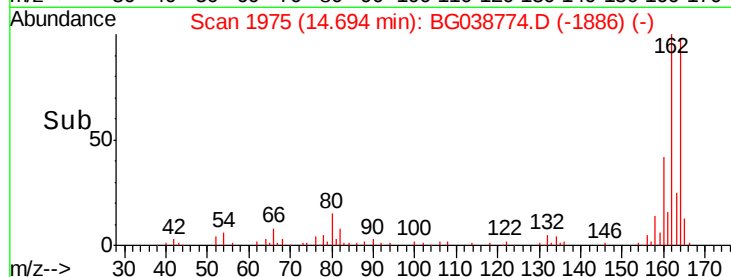
160 43.3 34.2 51.2



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: 162.520 ng

RT: 16.19 min Scan# 2229

Delta R.T. -0.01 min

Lab File: BG038774.D

Acq: 20 Dec 2018 22:50

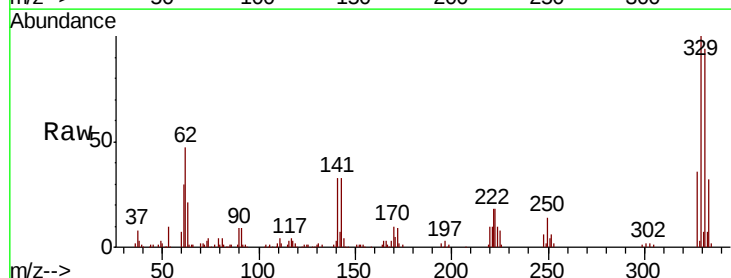
Tgt Ion:330 Resp: 159179

Ion Ratio Lower Upper

330 100

332 93.9 76.9 115.3

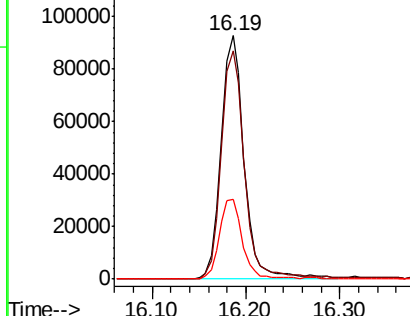
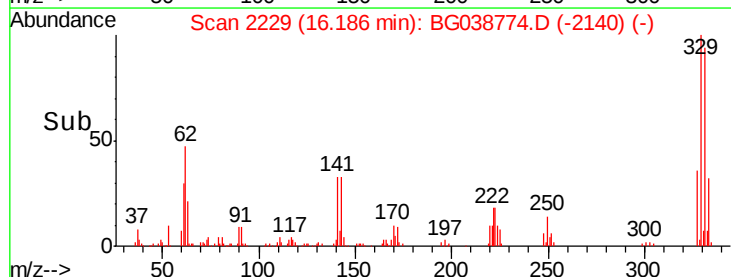
141 32.7 28.8 43.2



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

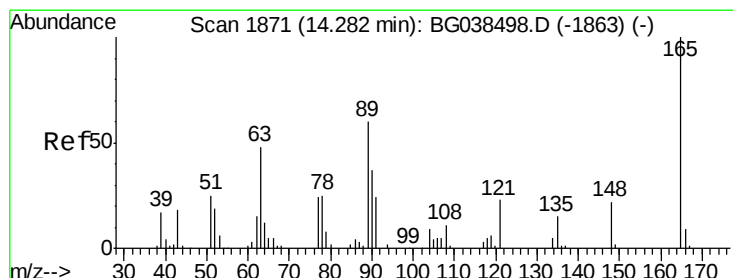
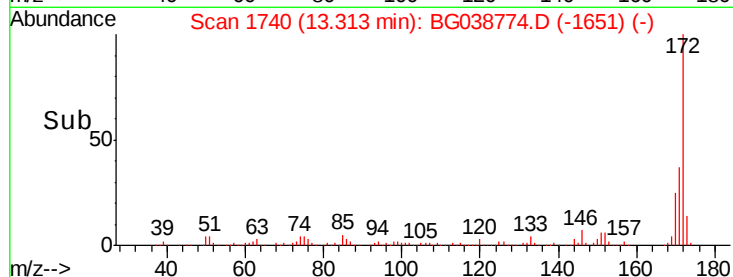
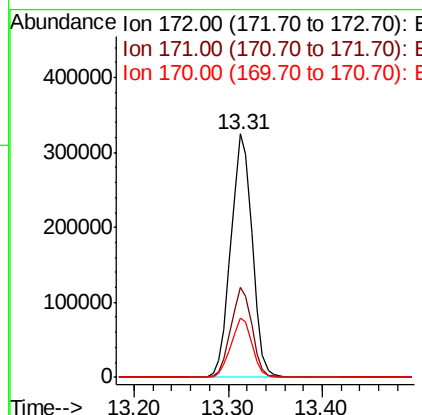
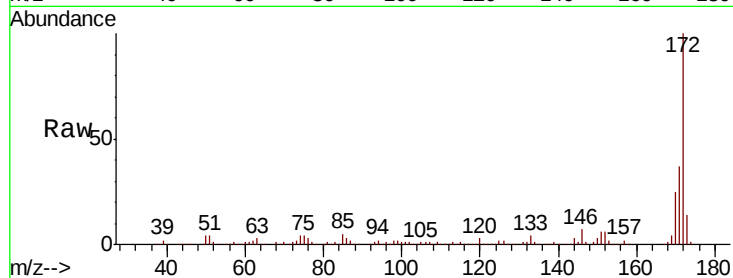




#45  
 2-Fluorobiphenyl  
 Concen: 98.857 ng  
 RT: 13.31 min Scan# 1740  
 Delta R.T. -0.01 min  
 Lab File: BG038774.D  
 Acq: 20 Dec 2018 22:50

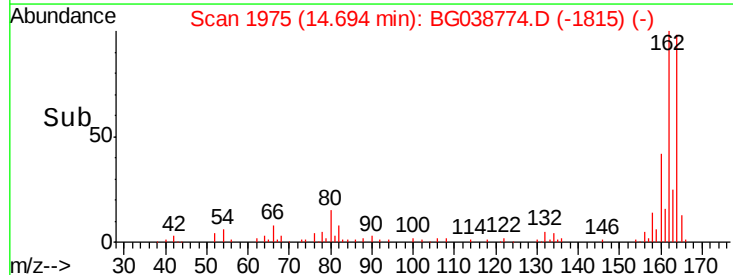
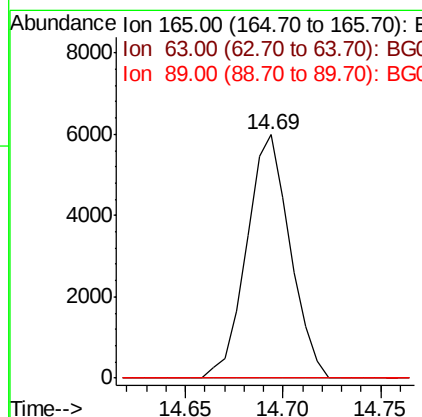
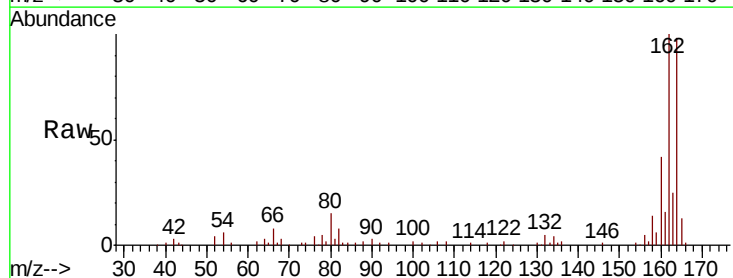
Instrument :  
 BNA\_G  
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 SLUDGE

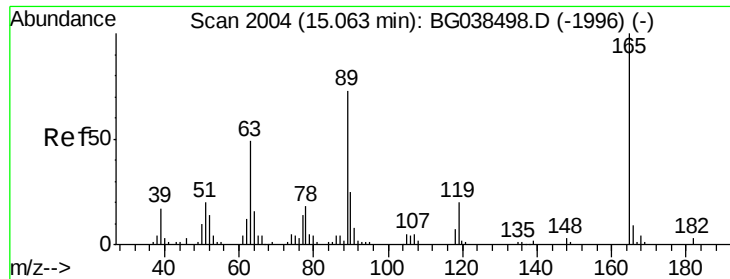
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 512126 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 36.8  | 29.8  | 44.6   |
| 170      | 24.5  | 19.5  | 29.3   |



#51  
 2,6-Dinitrotoluene  
 Concen: 6.992 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. 0.41 min  
 Lab File: BG038774.D  
 Acq: 20 Dec 2018 22:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 9196  |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 51.8  | 77.6# |
| 89       | 0.0   | 47.9  | 71.9# |

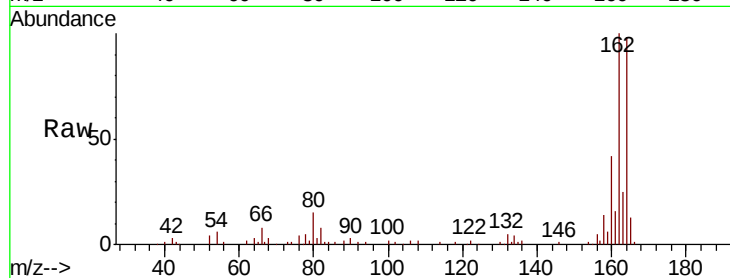




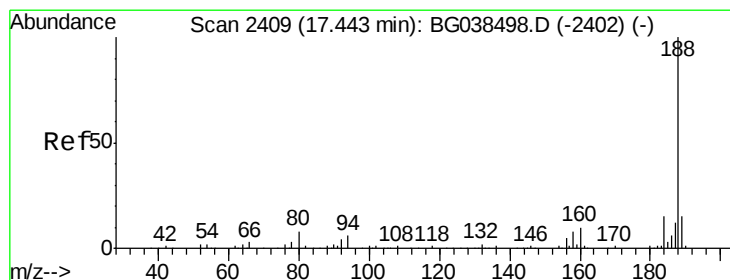
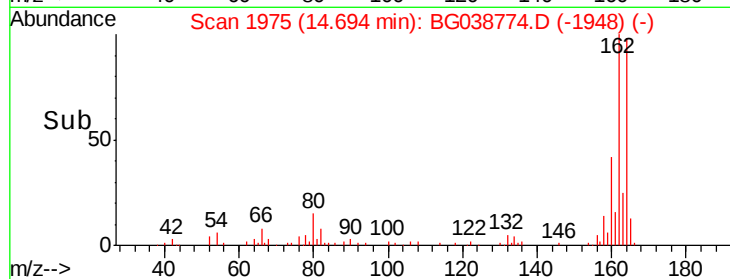
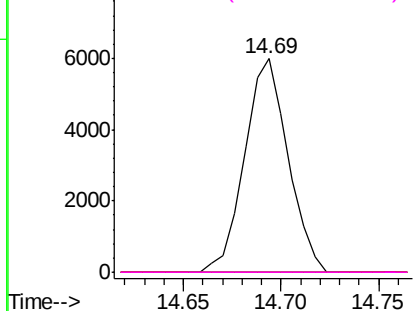
#57  
 2,4-Dinitrotoluene  
 Concen: 4.964 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. -0.37 min  
 Lab File: BG038774.D  
 Acq: 20 Dec 2018 22:50

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SLUDGE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 9196  |
| 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#  |

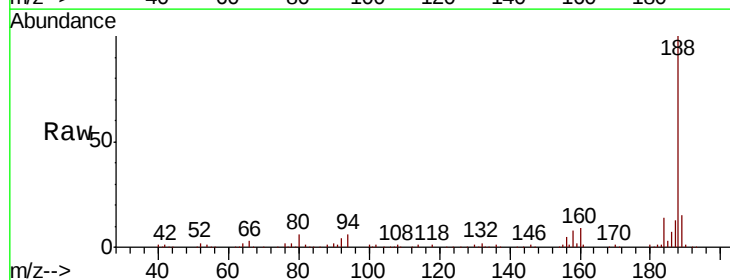


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

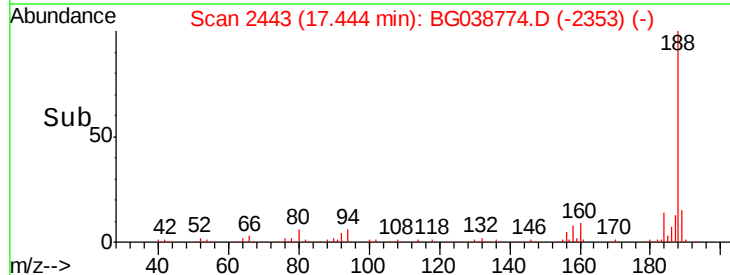
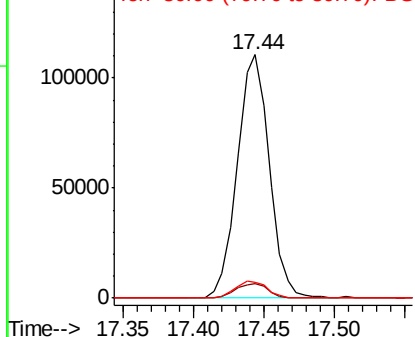


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.44 min Scan# 2443  
 Delta R.T. 0.00 min  
 Lab File: BG038774.D  
 Acq: 20 Dec 2018 22:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 175795 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 5.9   | 5.1   | 7.7    |
| 80       | 6.2   | 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

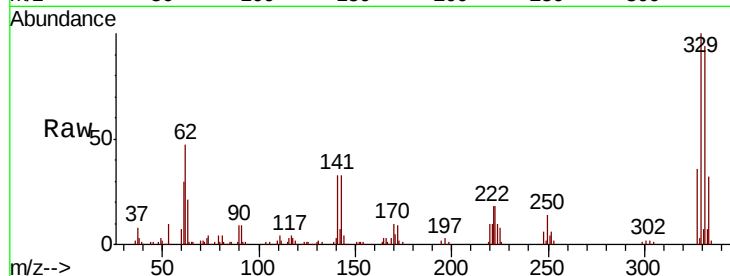




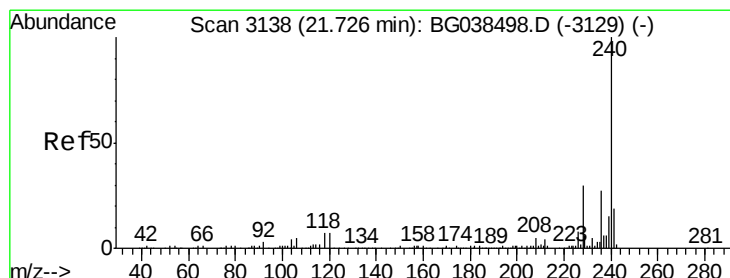
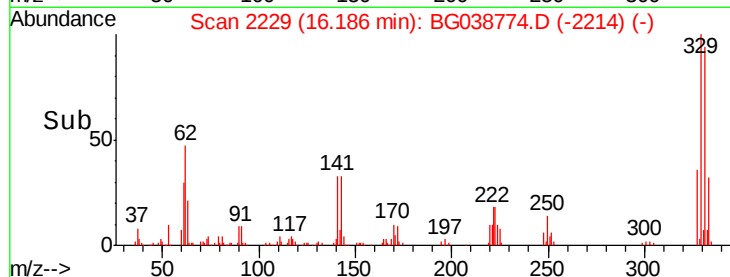
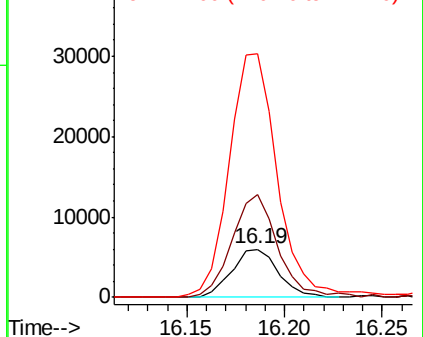
#67  
4-Bromophenyl-phenylether  
Concen: 4.594 ng  
RT: 16.19 min Scan# 2229  
Delta R.T. -0.44 min  
Lab File: BG038774.D  
Acq: 20 Dec 2018 22:50

Instrument :  
BNA\_G  
ClientSampleId :  
SLUDGE

Tgt Ion:248 Resp: 9863  
Ion Ratio Lower Upper  
248 100  
250 207.7 73.4 110.2#  
141 385.6 52.9 79.3#

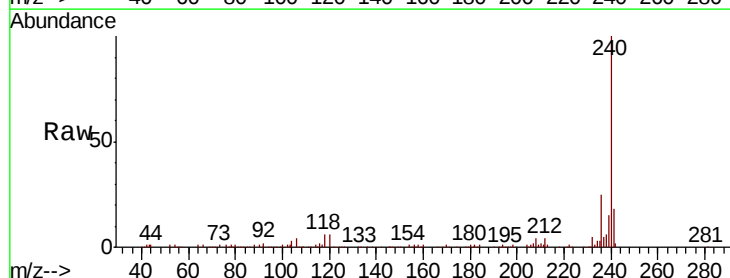


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

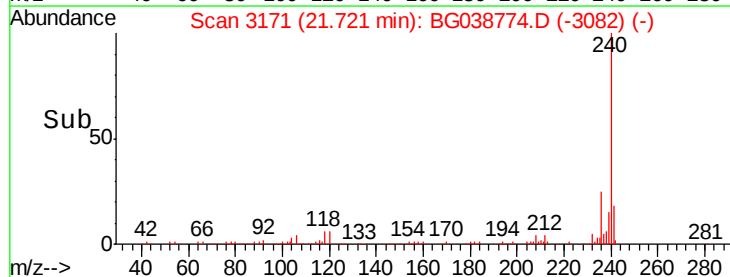
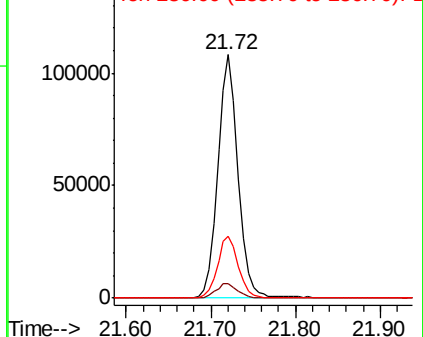


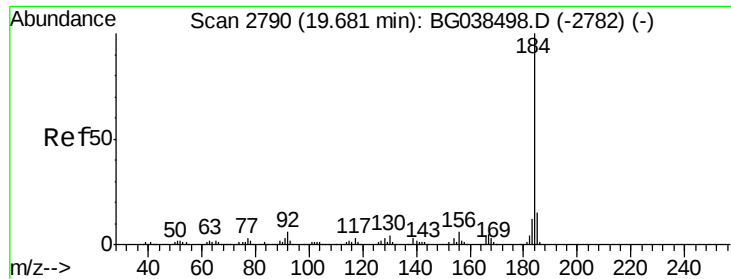
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.72 min Scan# 3171  
Delta R.T. -0.01 min  
Lab File: BG038774.D  
Acq: 20 Dec 2018 22:50

Tgt Ion:240 Resp: 180087  
Ion Ratio Lower Upper  
240 100  
120 5.9 5.3 7.9  
236 25.3 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: 2.972 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.37 min

Lab File: BG038774.D

Acq: 20 Dec 2018 22:50

Instrument :

BNA\_G

ClientSampleId :

SLUDGE

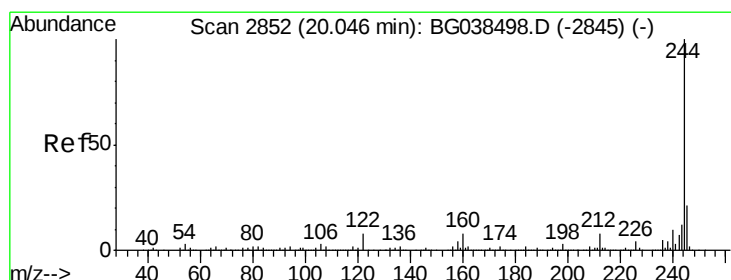
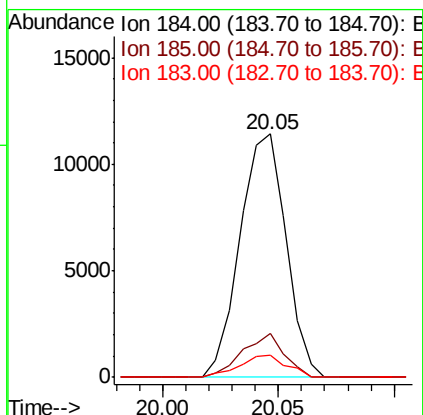
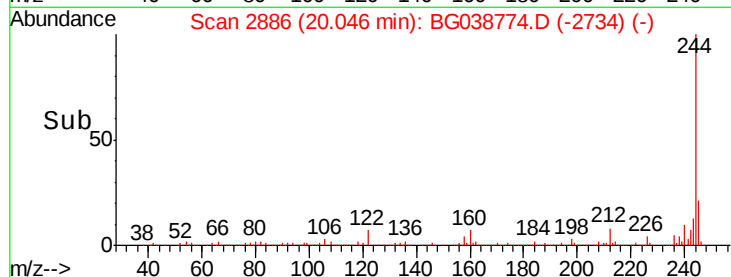
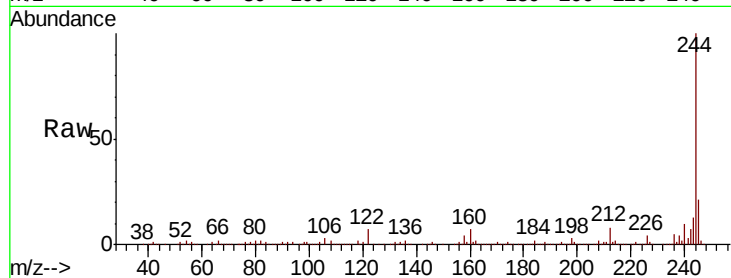
Tgt Ion:184 Resp: 15827

Ion Ratio Lower Upper

184 100

185 18.0 12.2 18.2

183 9.0 9.6 14.4#



#79

Terphenyl-d14

Concen: 116.000 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.00 min

Lab File: BG038774.D

Acq: 20 Dec 2018 22:50

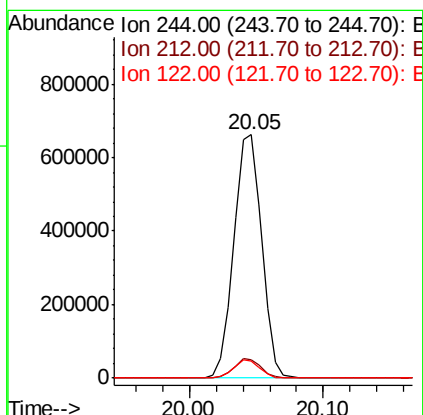
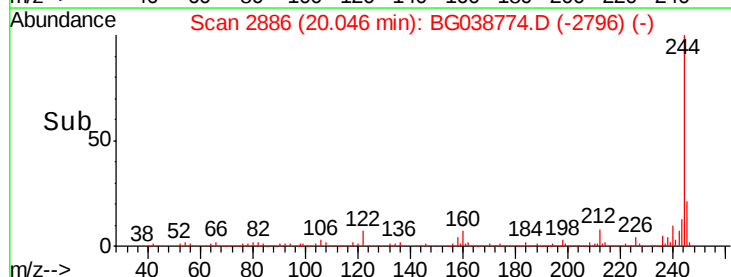
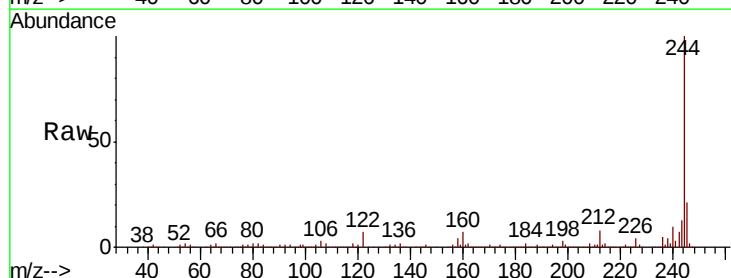
Tgt Ion:244 Resp: 959872

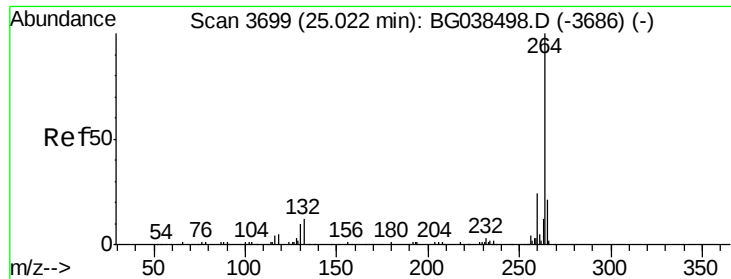
Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

122 7.0 6.3 9.5





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.02 min Scan# 3733  
Delta R.T. 0.00 min  
Lab File: BG038774.D  
Acq: 20 Dec 2018 22:50

Instrument :  
BNA\_G  
ClientSampleId :  
SLUDGE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 18.9  | 28.3  |
| 265     | 22.1  | 17.0  | 25.4  |

