

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG122818\  
 Data File : BG038884.D  
 Acq On : 28 Dec 2018 21:48  
 Operator : JU/SJ  
 Sample : J6193-18  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 29 00:22:00 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

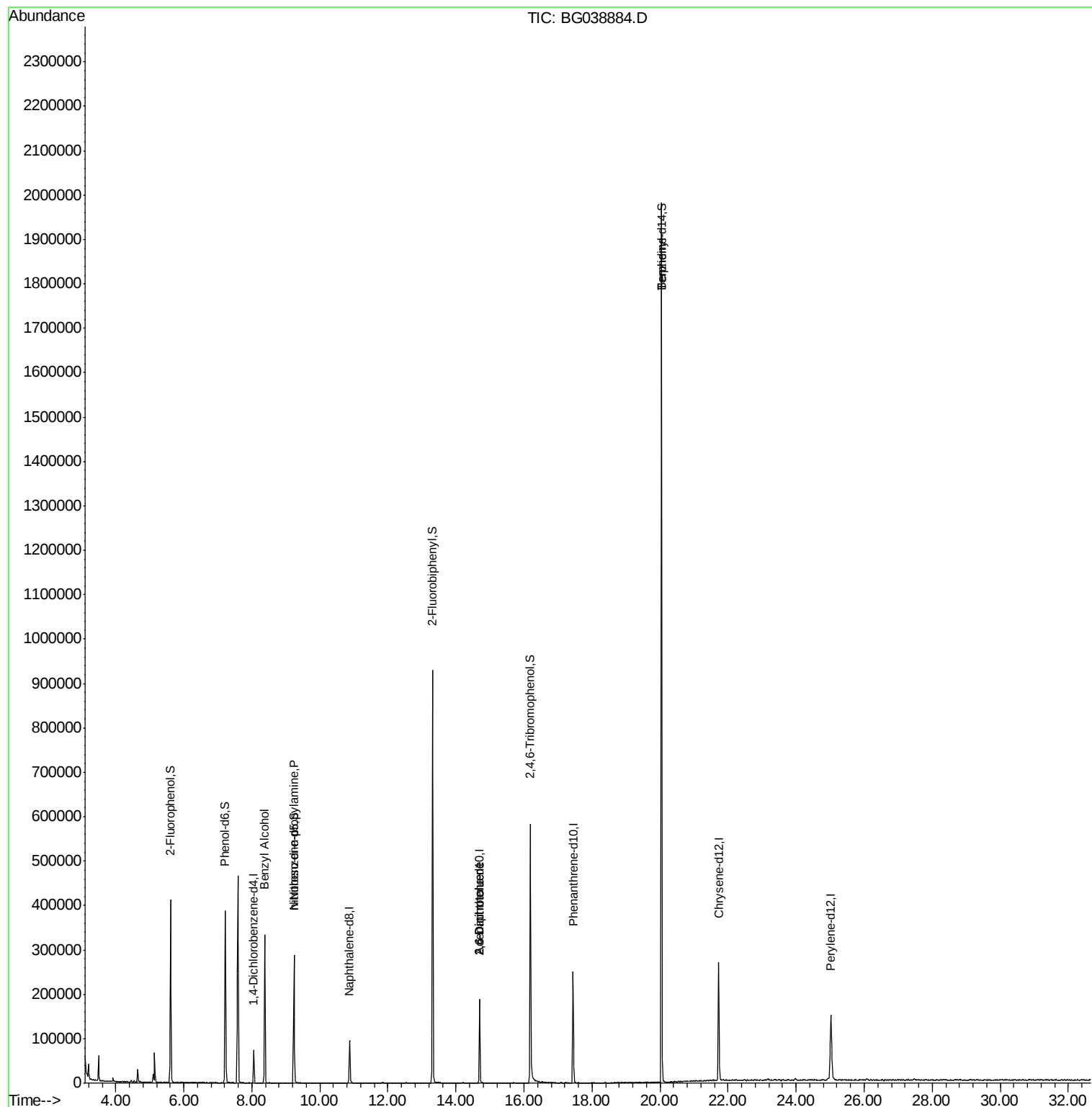
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 22385    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.88 | 136  | 89933    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.69 | 164  | 70779    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.44 | 188  | 176821   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.72 | 240  | 188345   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.02 | 264  | 198470   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 180602   | 143.10 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 231515   | 133.62 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.24  | 82   | 173632   | 98.63  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.19 | 330  | 145480   | 149.14 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 508810   | 98.62  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.04 | 244  | 981348   | 113.40 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 8.38  | 79   | 2749     | 2.033  | ng    | # 40     |
| 19) n-Nitroso-di-n-propylamine | 9.24  | 70   | 23116    | 18.996 | ng    | # 68     |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 9240     | 7.054  | ng    | # 19     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 9240     | 5.008  | ng    | # 21     |
| 77) Benzidine                  | 20.04 | 184  | 16411    | 2.946  | ng    | 98       |

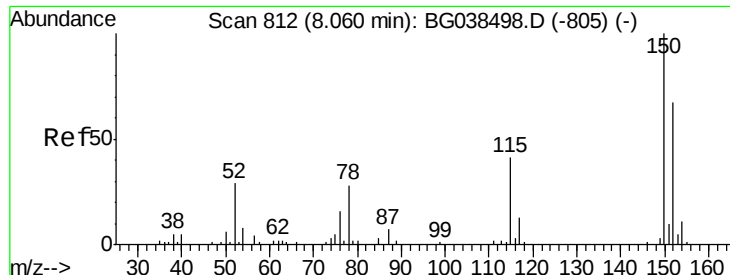
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 12 15:26:27 2018  
Response via : Initial Calibration



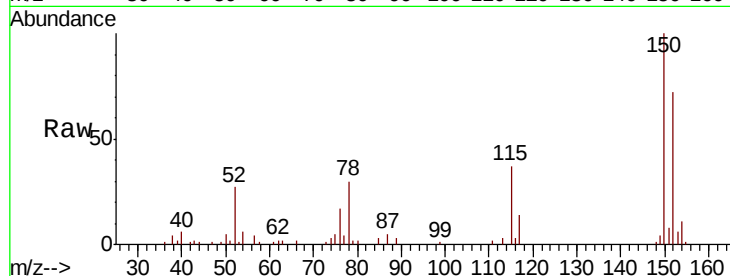


#1

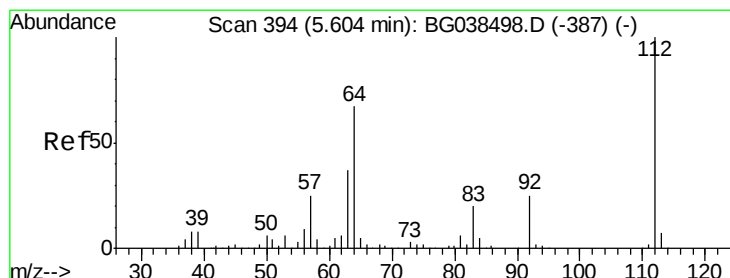
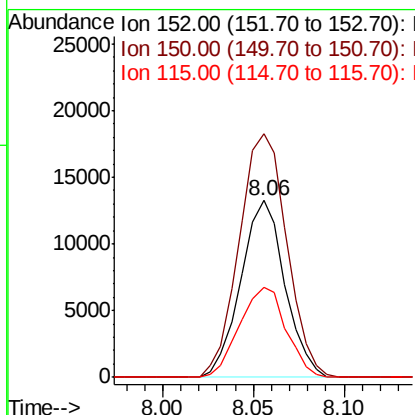
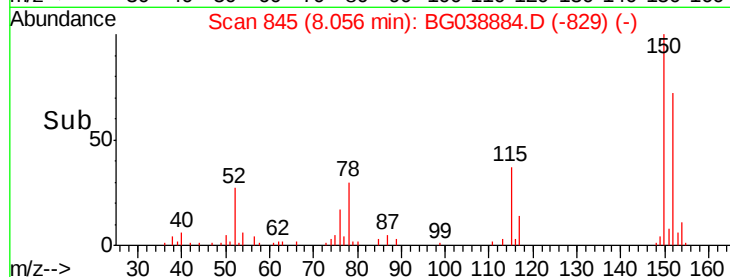
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 845  
Delta R.T. -0.00 min  
Lab File: BG038884.D  
Acq: 28 Dec 2018 21:48

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 22385  
Ion Ratio Lower Upper  
152 100  
150 138.0 119.5 179.3  
115 50.9 49.6 74.4



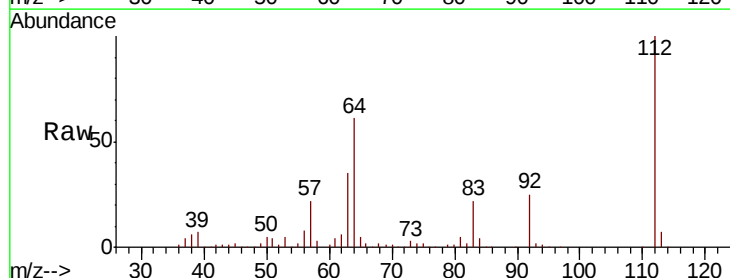
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



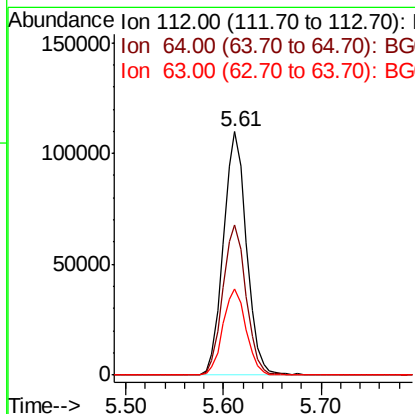
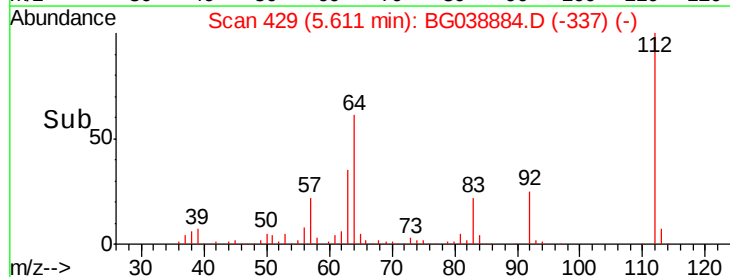
#5

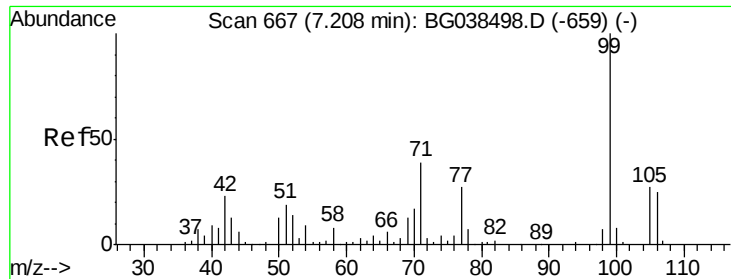
2-Fluorophenol  
Concen: 143.098 ng  
RT: 5.61 min Scan# 429  
Delta R.T. 0.01 min  
Lab File: BG038884.D  
Acq: 28 Dec 2018 21:48

Tgt Ion:112 Resp: 180602  
Ion Ratio Lower Upper  
112 100  
64 61.5 53.4 80.2  
63 35.4 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: 133.623 ng

RT: 7.22 min Scan# 702

Delta R.T. 0.01 min

Lab File: BG038884.D

Acq: 28 Dec 2018 21:48

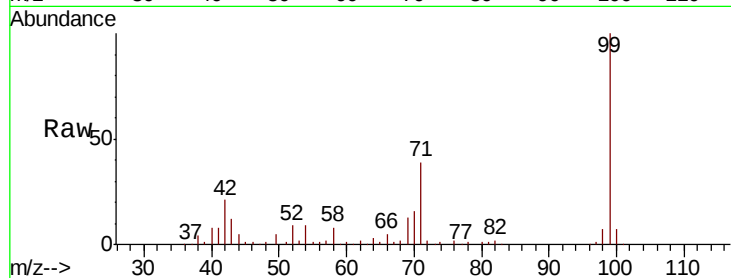
Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 99 Resp: 231515

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.4  | 18.5  | 27.7  |
| 71  | 39.2  | 31.1  | 46.7  |

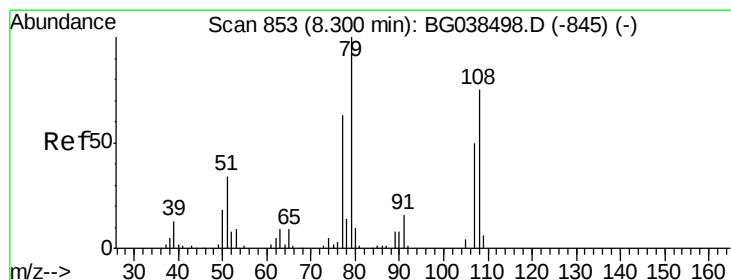
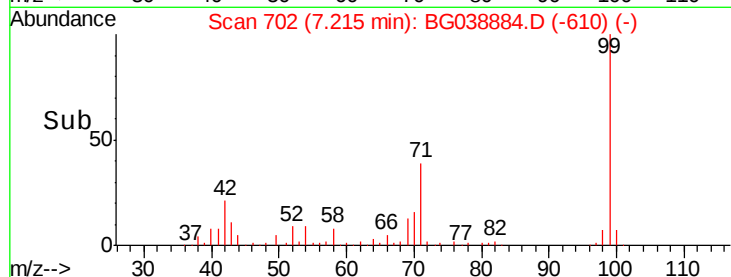
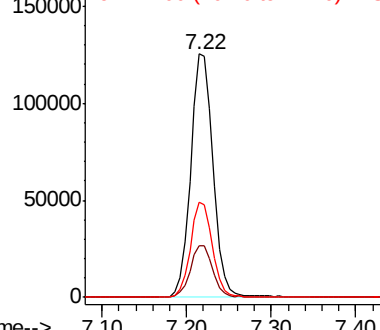


Abundance

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



#15

Benzyl Alcohol

Concen: 2.033 ng

RT: 8.38 min Scan# 900

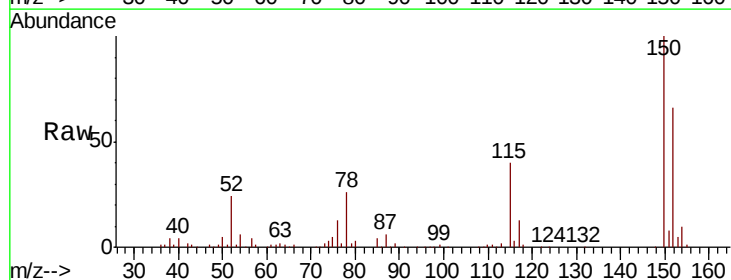
Delta R.T. 0.08 min

Lab File: BG038884.D

Acq: 28 Dec 2018 21:48

Tgt Ion: 79 Resp: 2749

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 79  | 100   |       |       |
| 108 | 25.2  | 60.2  | 90.4# |
| 77  | 110.9 | 50.7  | 76.1# |

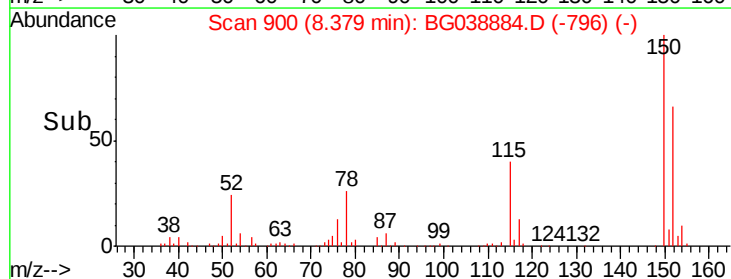
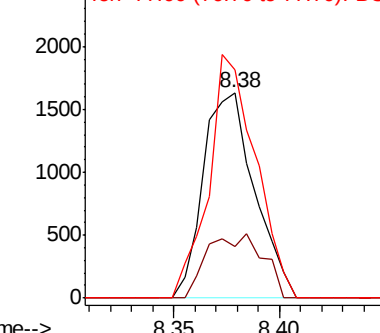


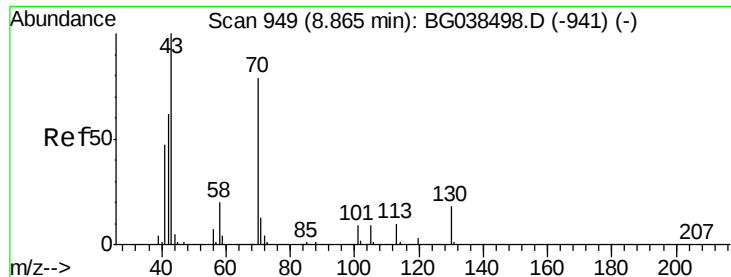
Abundance

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

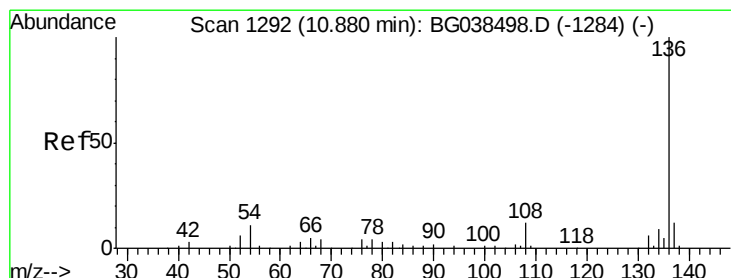
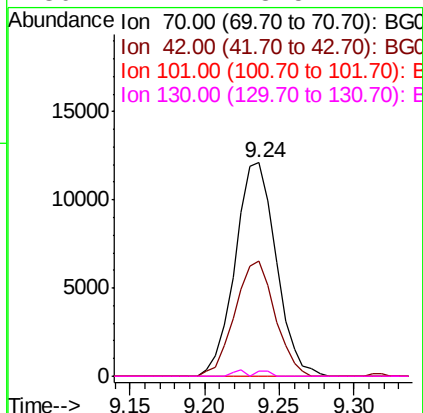
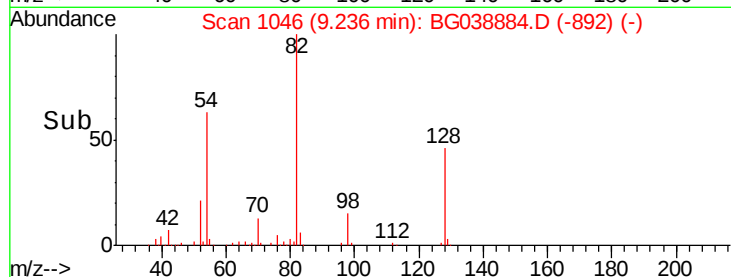
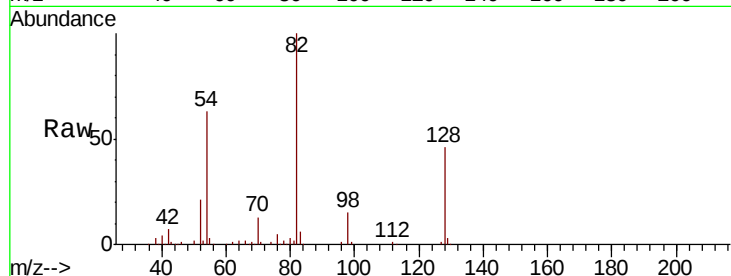




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.996 ng  
RT: 9.24 min Scan# 1046  
Delta R.T. 0.37 min  
Lab File: BG038884.D  
Acq: 28 Dec 2018 21:48

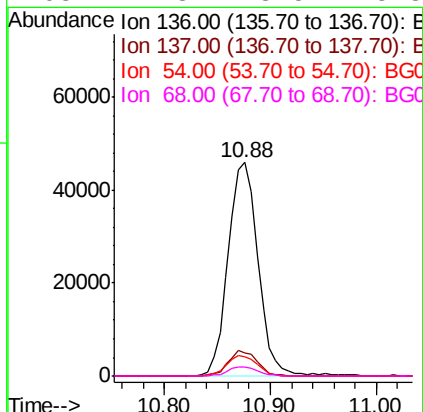
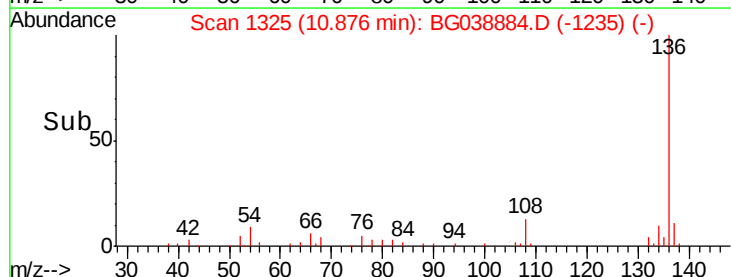
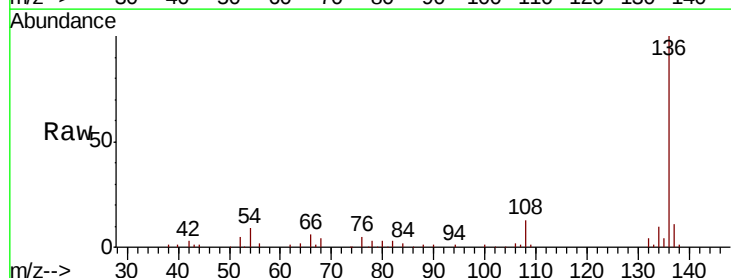
Instrument :  
BNA\_G  
ClientSampleId :

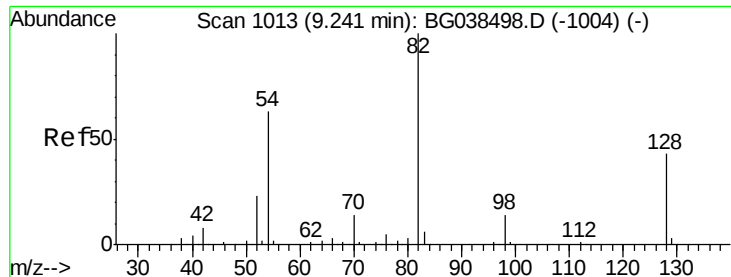
Tot Ion: 70 Resp: 23116  
Ion Ratio Lower Upper  
70 100  
42 53.7 63.6 95.4#  
101 0.0 9.2 13.8#  
130 2.7 18.5 27.7#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.88 min Scan# 1325  
Delta R.T. -0.00 min  
Lab File: BG038884.D  
Acq: 28 Dec 2018 21:48

Tgt Ion: 136 Resp: 89933  
Ion Ratio Lower Upper  
136 100  
137 10.7 9.3 13.9  
54 8.9 8.5 12.7  
68 4.3 3.5 5.3

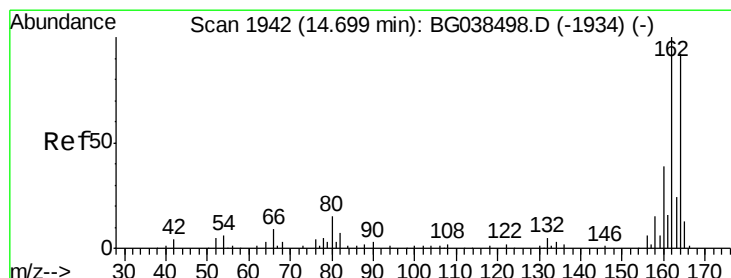
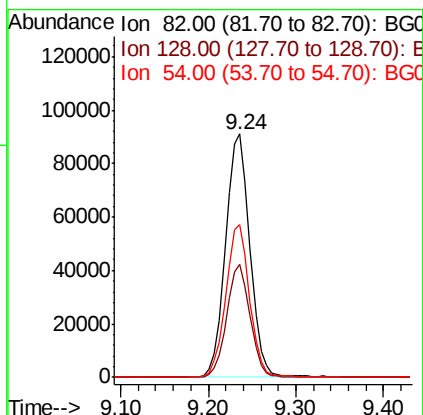
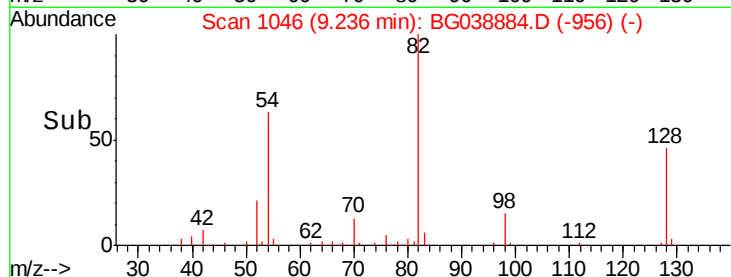
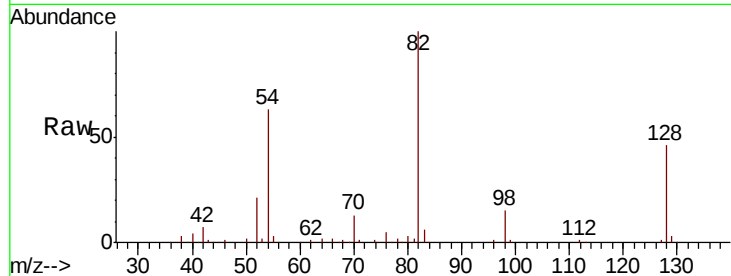




#23  
Nitrobenzene-d5  
Concen: 98.633 ng  
RT: 9.24 min Scan# 1046  
Delta R.T. -0.00 min  
Lab File: BG038884.D  
Acq: 28 Dec 2018 21:48

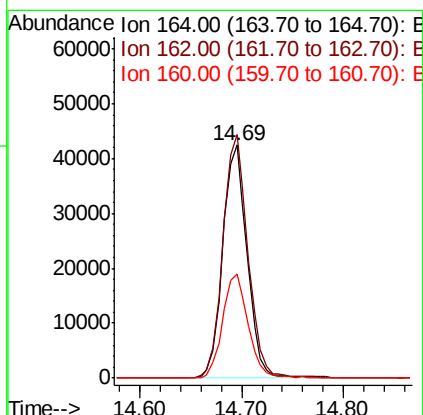
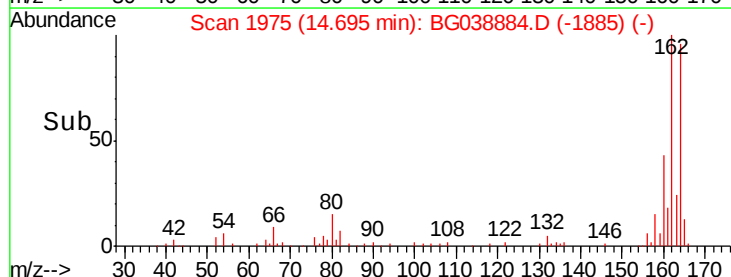
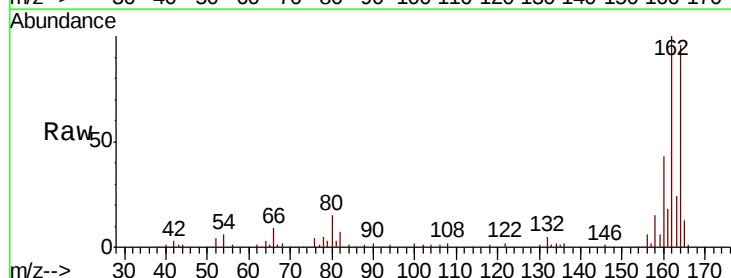
Instrument :  
BNA\_G  
ClientSampleId :

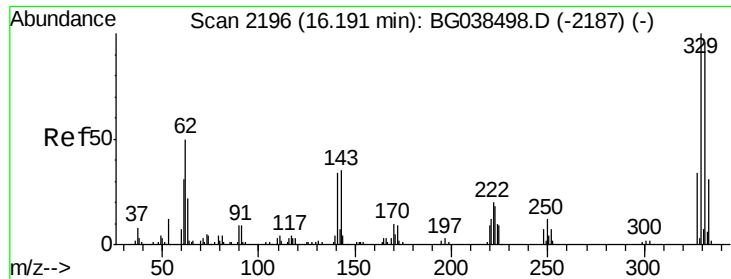
Tot Ion: 82 Resp: 173632  
Ion Ratio Lower Upper  
82 100  
128 46.4 34.6 52.0  
54 62.7 50.6 76.0



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.69 min Scan# 1975  
Delta R.T. -0.00 min  
Lab File: BG038884.D  
Acq: 28 Dec 2018 21:48

Tgt Ion:164 Resp: 70779  
Ion Ratio Lower Upper  
164 100  
162 104.4 86.6 130.0  
160 44.7 34.2 51.2

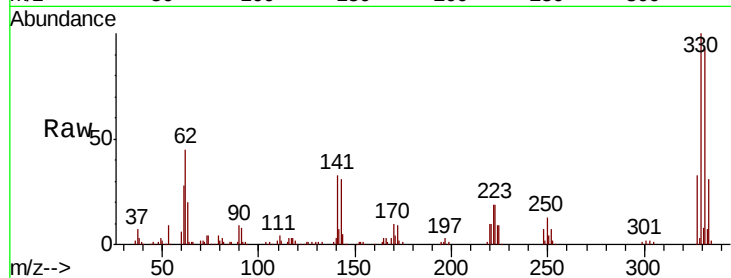




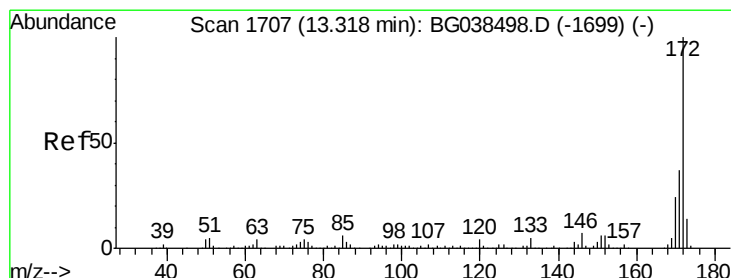
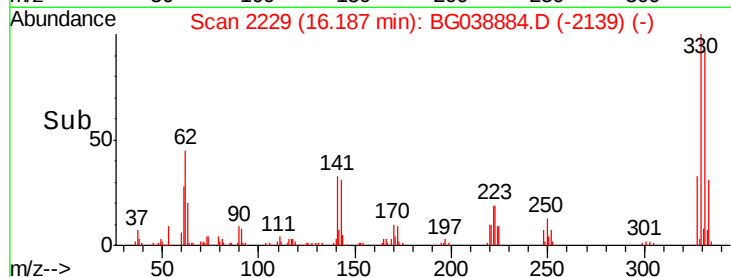
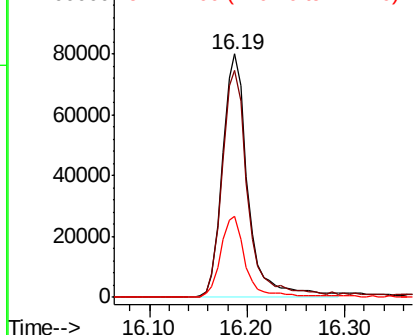
#42  
 2,4,6-Tribromophenol  
 Concen: 149.140 ng  
 RT: 16.19 min Scan# 2229  
 Delta R.T. -0.00 min  
 Lab File: BG038884.D  
 Acq: 28 Dec 2018 21:48

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.1  | 76.9  | 115.3 |
| 141     | 32.3  | 28.8  | 43.2  |

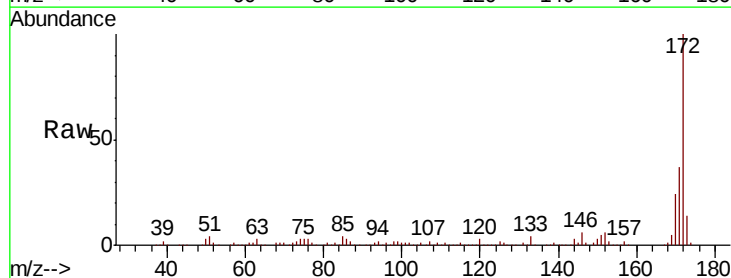


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

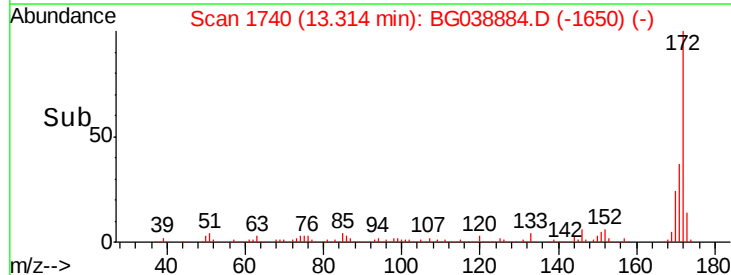
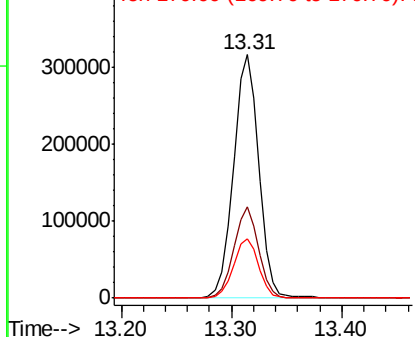


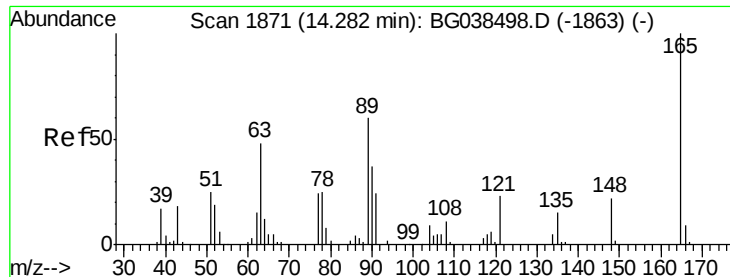
#45  
 2-Fluorobiphenyl  
 Concen: 98.618 ng  
 RT: 13.31 min Scan# 1740  
 Delta R.T. -0.00 min  
 Lab File: BG038884.D  
 Acq: 28 Dec 2018 21:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.5  | 29.8  | 44.6  |
| 170     | 24.4  | 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





#51

2,6-Dinitrotoluene

Concen: 7.054 ng

RT: 14.69 min Scan# 1975

Delta R.T. 0.41 min

Lab File: BG038884.D

Acq: 28 Dec 2018 21:48

Instrument :

BNA\_G

ClientSampleId :

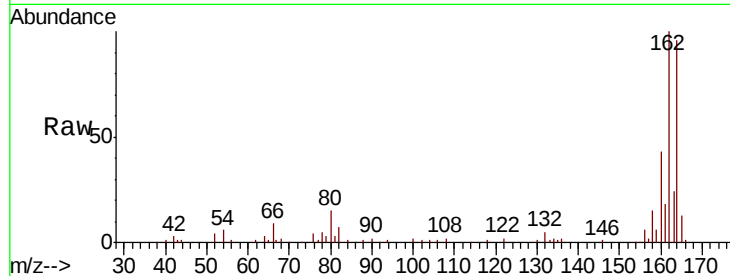
Tot Ion:165 Resp: 9240

Ion Ratio Lower Upper

165 100

63 0.0 51.8 77.6#

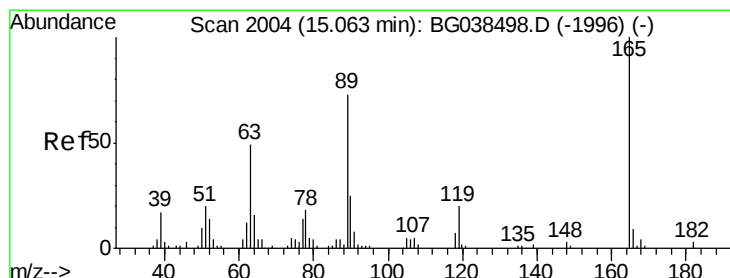
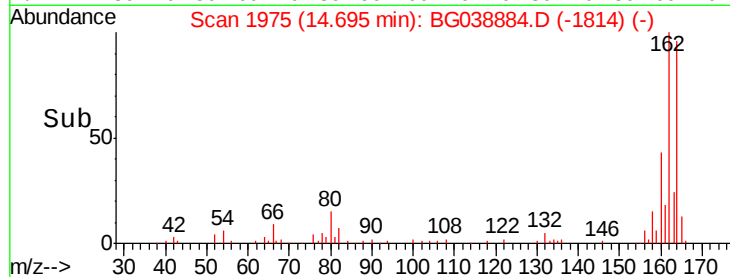
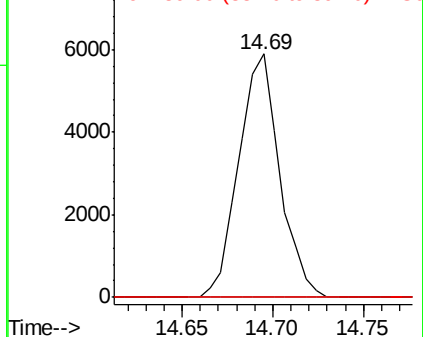
89 0.0 47.9 71.9#



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: 5.008 ng

RT: 14.69 min Scan# 1975

Delta R.T. -0.37 min

Lab File: BG038884.D

Acq: 28 Dec 2018 21:48

Tgt Ion:165 Resp: 9240

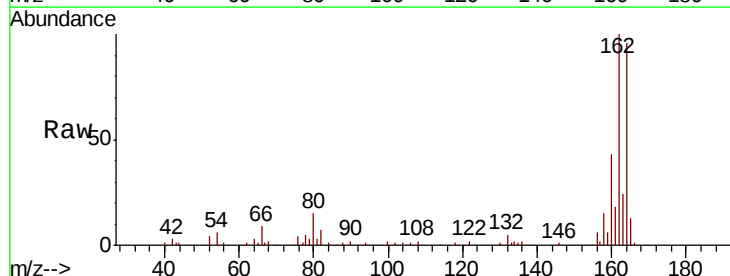
Ion Ratio Lower Upper

165 100

63 0.0 39.0 58.4#

89 0.0 58.0 87.0#

182 0.0 2.3 3.5#

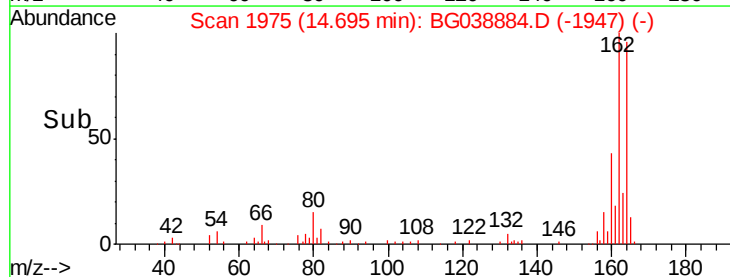
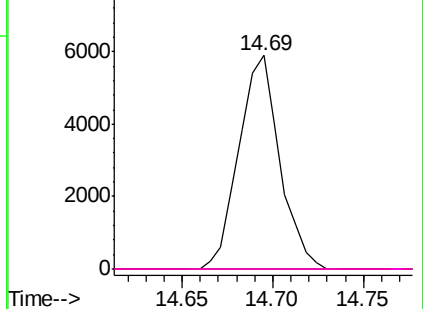


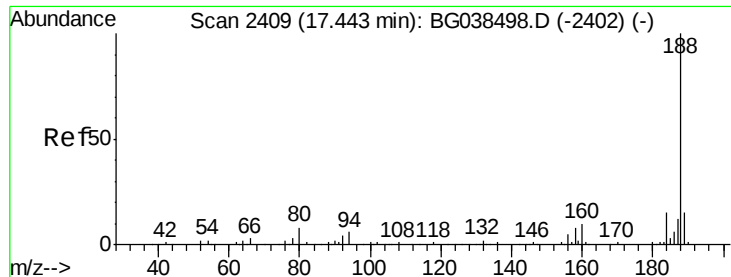
Abundance Ion 165.00 (164.70 to 165.70): E

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

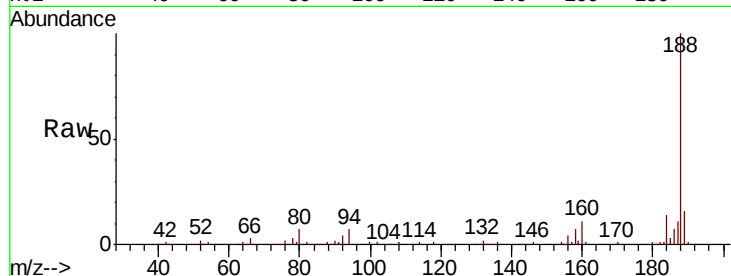




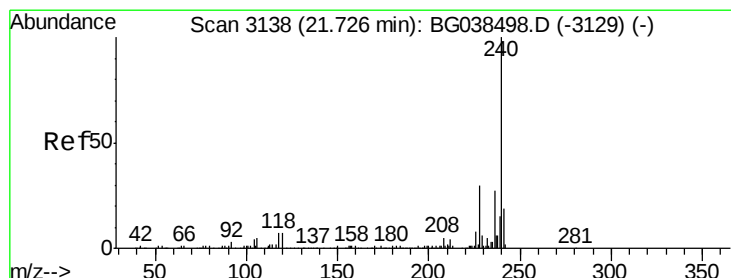
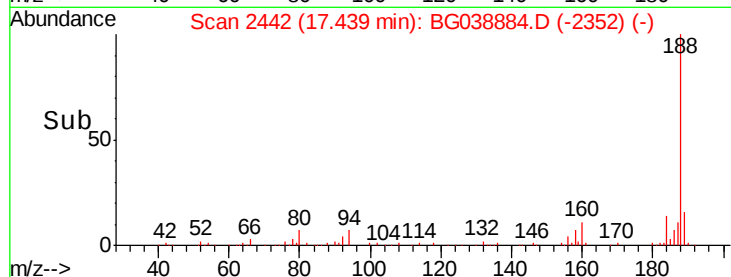
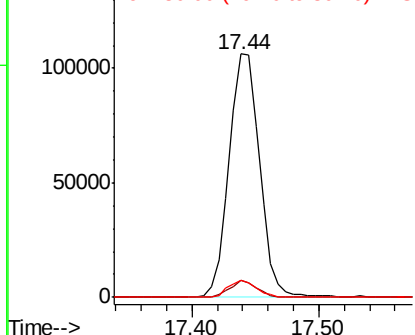
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.44 min Scan# 2442  
Delta R.T. -0.00 min  
Lab File: BG038884.D  
Acq: 28 Dec 2018 21:48

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:188 Resp: 176821  
Ion Ratio Lower Upper  
188 100  
94 6.9 5.1 7.7  
80 6.9 6.1 9.1

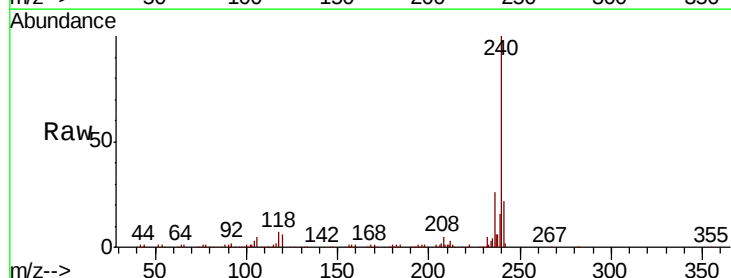


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

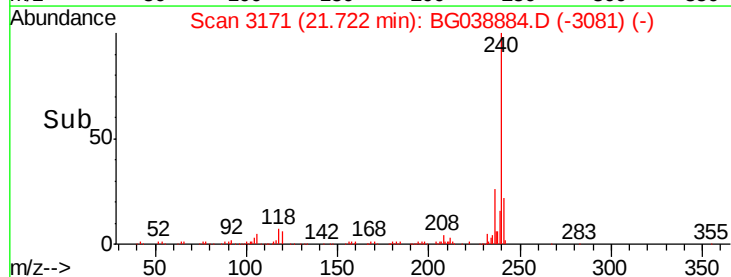
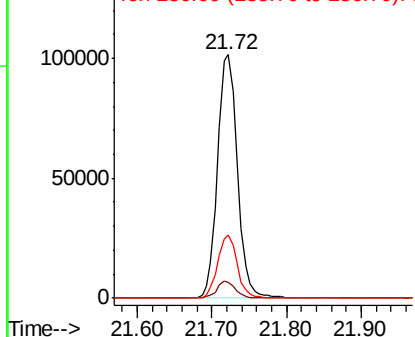


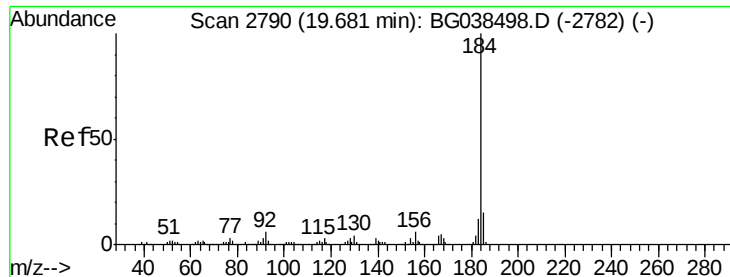
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.72 min Scan# 3171  
Delta R.T. -0.00 min  
Lab File: BG038884.D  
Acq: 28 Dec 2018 21:48

Tgt Ion:240 Resp: 188345  
Ion Ratio Lower Upper  
240 100  
120 6.2 5.3 7.9  
236 26.0 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: 2.946 ng

RT: 20.04 min Scan# 2885

Delta R.T. 0.36 min

Lab File: BG038884.D

Acq: 28 Dec 2018 21:48

Instrument :

BNA\_G

ClientSampleId :

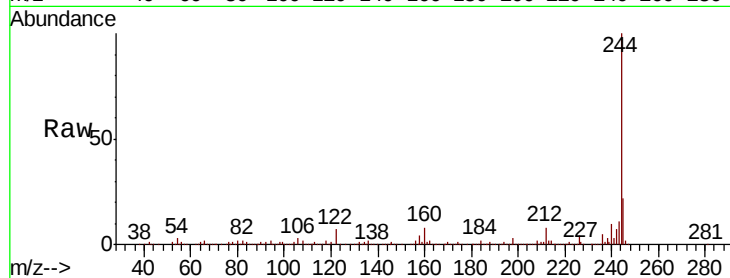
Tot Ion:184 Resp: 16411

Ion Ratio Lower Upper

184 100

185 15.1 12.2 18.2

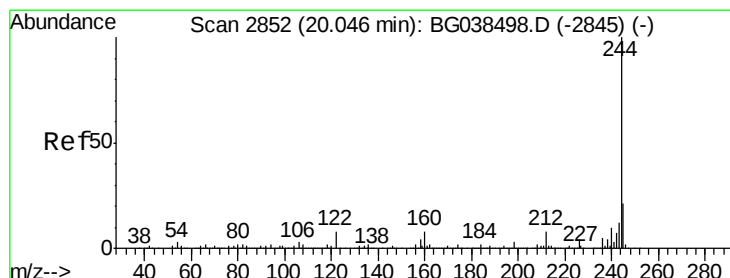
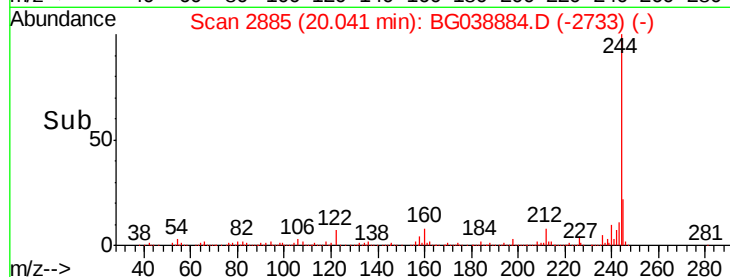
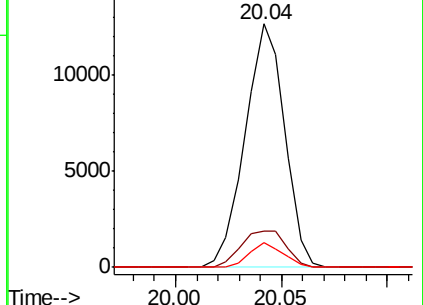
183 10.1 9.6 14.4



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: 113.395 ng

RT: 20.04 min Scan# 2885

Delta R.T. -0.00 min

Lab File: BG038884.D

Acq: 28 Dec 2018 21:48

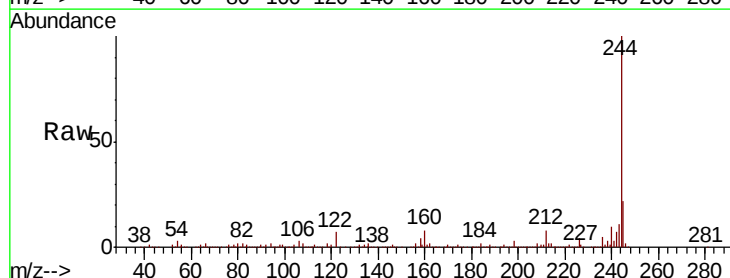
Tgt Ion:244 Resp: 981348

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

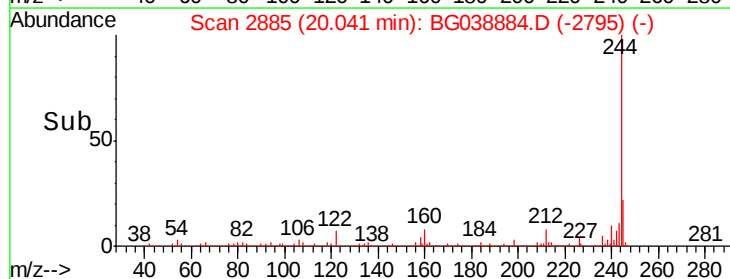
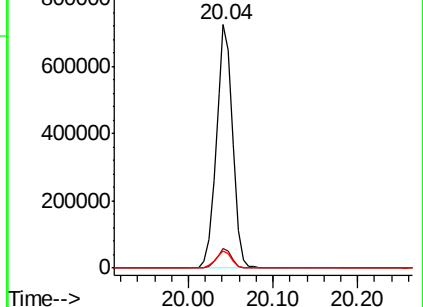
122 7.3 6.3 9.5

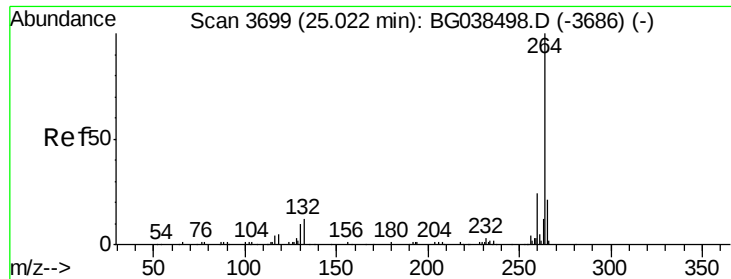


Abundance Ion 244.00 (243.70 to 244.70): E

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: 25.02 min Scan# 3733  
 Delta R.T. 0.00 min  
 Lab File: BG038884.D  
 Acq: 28 Dec 2018 21:48

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 18.9  | 28.3  |
| 265     | 20.5  | 17.0  | 25.4  |

