

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG010419\  
 Data File : BG038943.D  
 Acq On : 4 Jan 2019 23:44  
 Operator : JU/SJ  
 Sample : K1029-05  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 05 01:00:19 2019  
 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

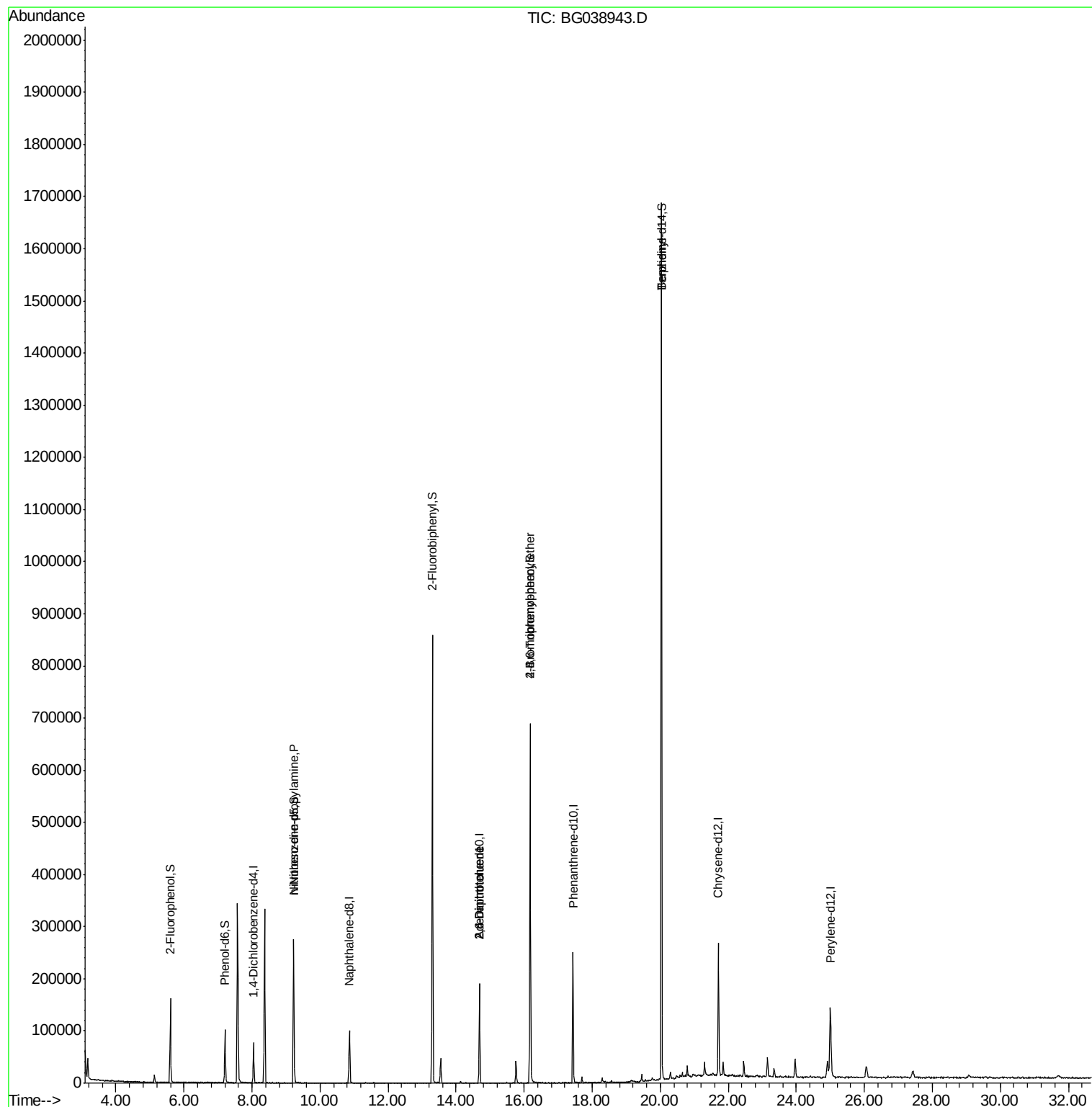
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 23752    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.87 | 136  | 94417    | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 14.69 | 164  | 68729    | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 17.43 | 188  | 168618   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.71 | 240  | 160449   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 25.00 | 264  | 172118   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 74113    | 55.34  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 61600    | 33.51  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 171824   | 92.97  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.18 | 330  | 155914   | 164.60 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.30 | 172  | 477744   | 95.36  | ng    | -0.01    |
| 79) Terphenyl-d14              | 20.04 | 244  | 862200   | 116.95 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 22636    | 17.531 | ng    | # 68     |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 8329     | 6.548  | ng    | # 19     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 8329     | 4.649  | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether  | 16.18 | 248  | 10014    | 4.863  | ng    | # 1      |
| 77) Benzidine                  | 20.04 | 184  | 13745    | 2.897  | ng    | # 92     |

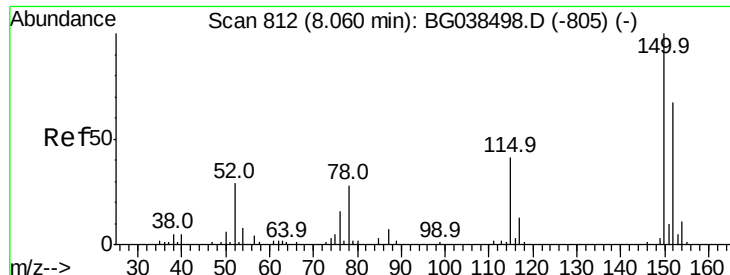
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG010419\  
Data File : BG038943.D  
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Operator : JU/SJ  
Sample : K1029-05  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jan 05 01:00:19 2019  
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



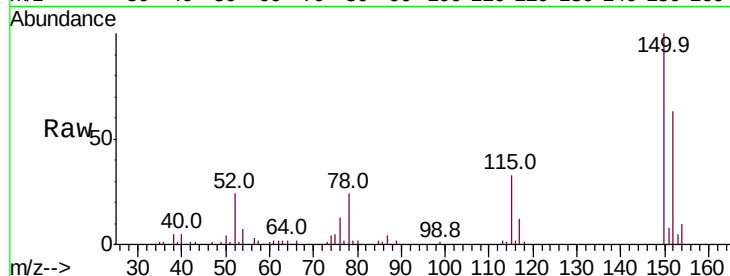


#1

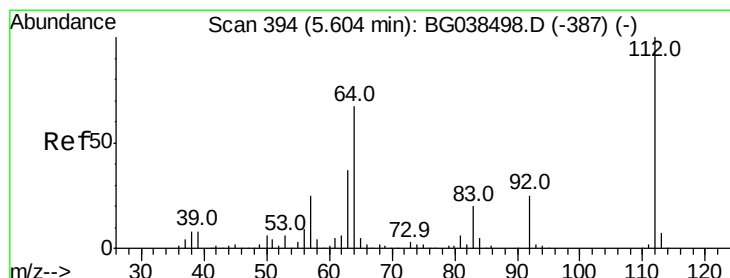
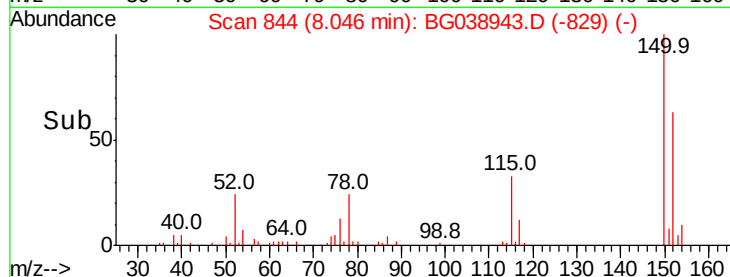
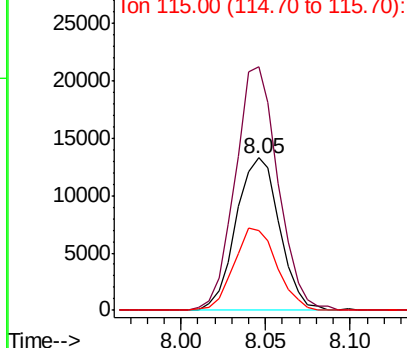
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 844  
Delta R.T. -0.01 min  
Lab File: BG038943.D  
Acq: 4 Jan 2019 23:44

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 23752  
Ion Ratio Lower Upper  
152 100  
150 159.7 119.5 179.3  
115 52.3 49.6 74.4



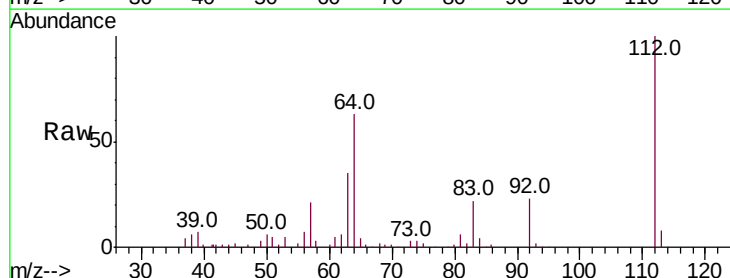
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



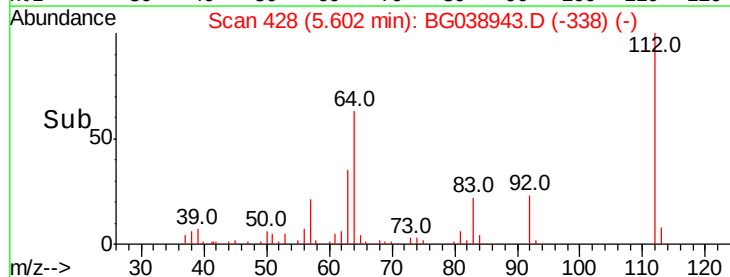
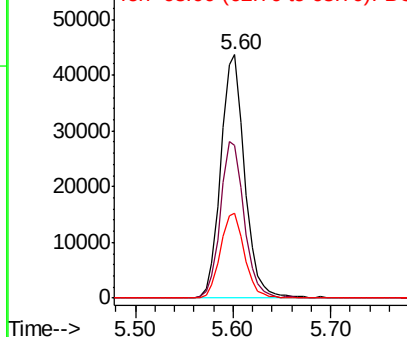
#5

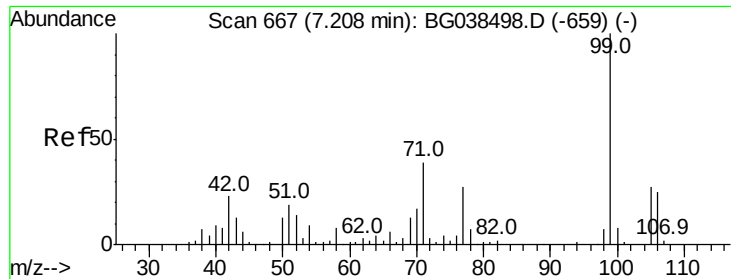
2-Fluorophenol  
Concen: 55.343 ng  
RT: 5.60 min Scan# 428  
Delta R.T. -0.00 min  
Lab File: BG038943.D  
Acq: 4 Jan 2019 23:44

Tgt Ion:112 Resp: 74113  
Ion Ratio Lower Upper  
112 100  
64 62.7 53.4 80.2  
63 34.8 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: 33.507 ng

RT: 7.21 min Scan# 701

Delta R.T. -0.00 min

Lab File: BG038943.D

Acq: 4 Jan 2019 23:44

Instrument :

BNA\_G

ClientSampled :

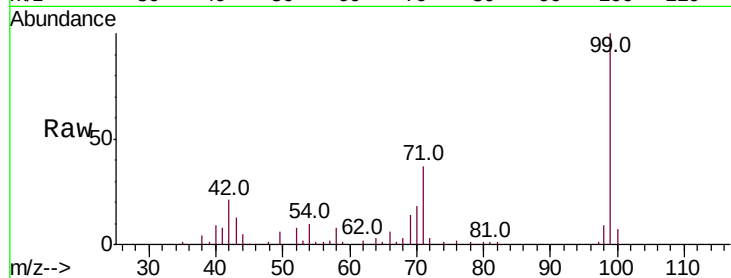
Tot Ion: 99 Resp: 61600

Ion Ratio Lower Upper

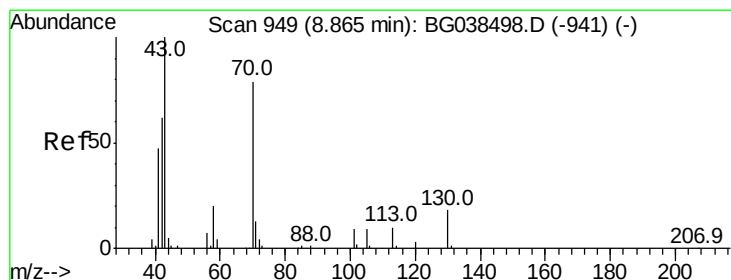
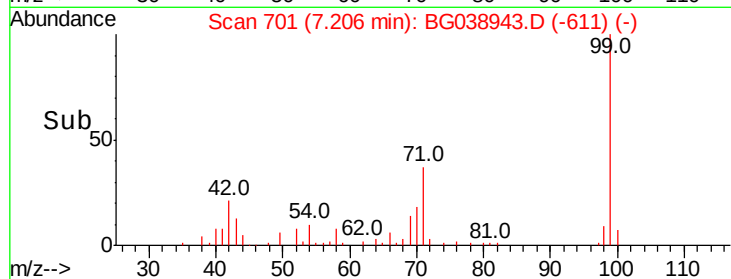
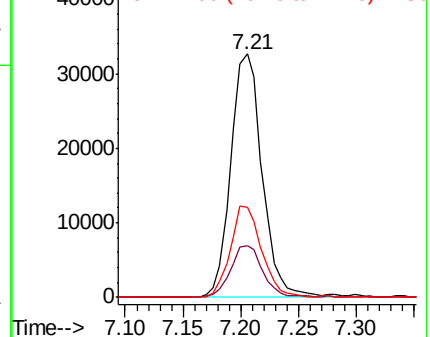
99 100

42 21.3 18.5 27.7

71 37.0 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: 17.531 ng

RT: 9.23 min Scan# 1045

Delta R.T. 0.36 min

Lab File: BG038943.D

Acq: 4 Jan 2019 23:44

Tgt Ion: 70 Resp: 22636

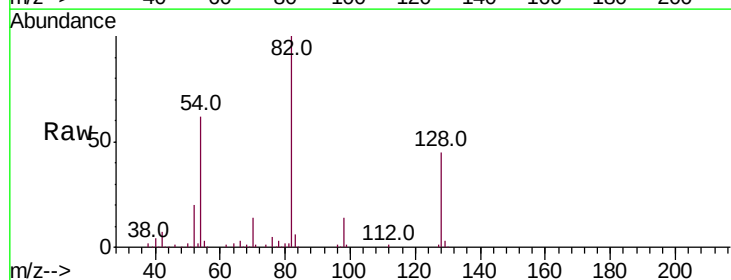
Ion Ratio Lower Upper

70 100

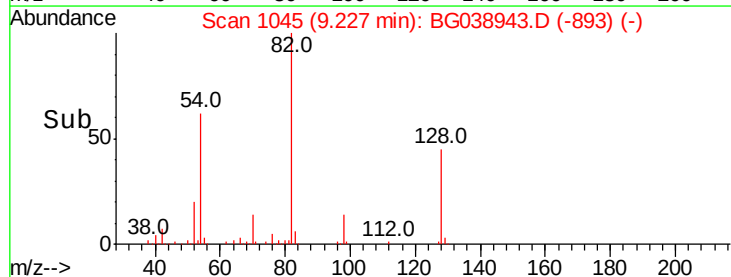
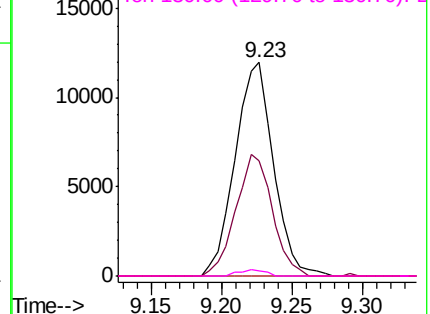
42 54.2 63.6 95.4#

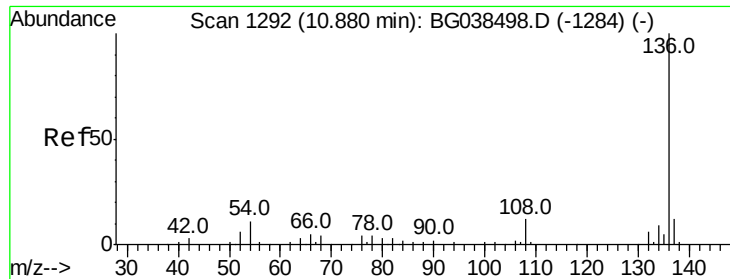
101 0.0 9.2 13.8#

130 2.1 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

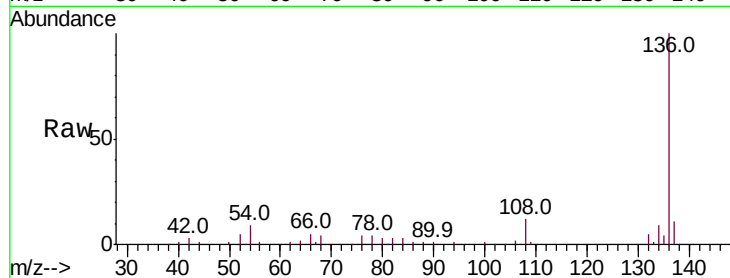




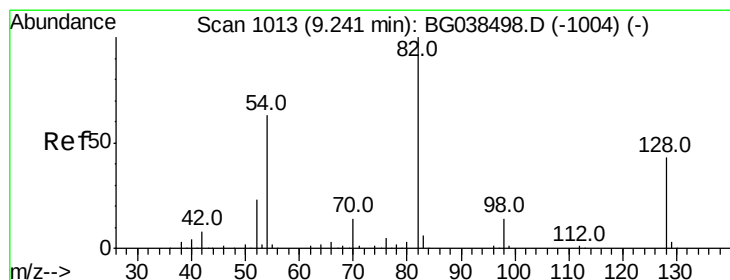
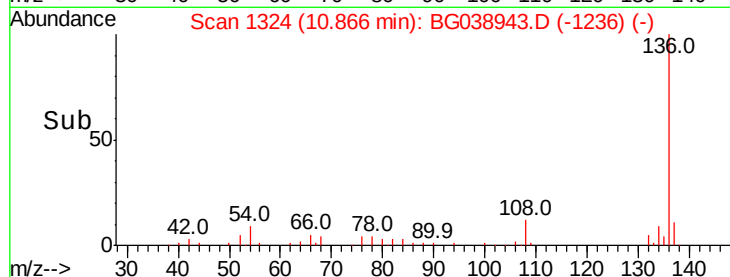
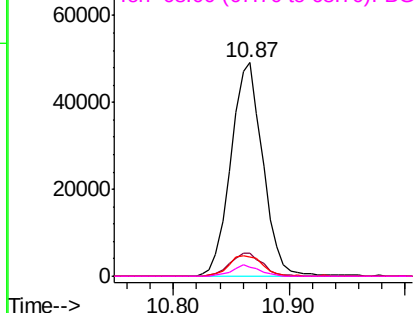
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1324  
Delta R.T. -0.01 min  
Lab File: BG038943.D  
Acq: 4 Jan 2019 23:44

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 94417       |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.7  | 9.3 13.9    |
| 54          | 9.2   | 8.5 12.7    |
| 68          | 4.3   | 3.5 5.3     |

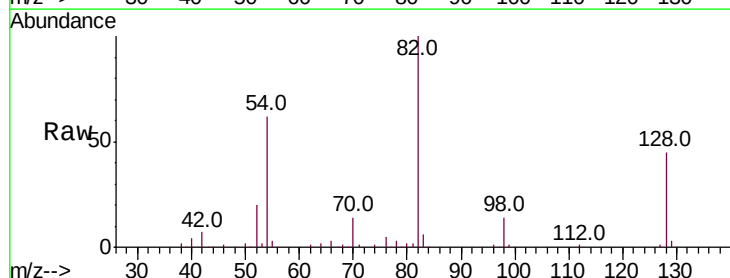


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

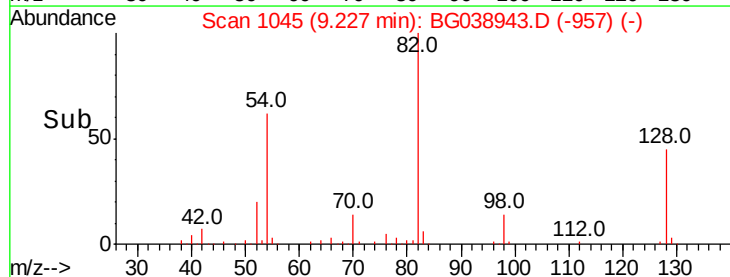
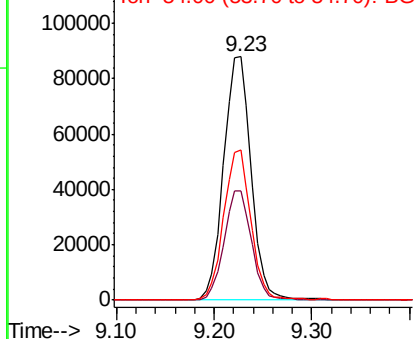


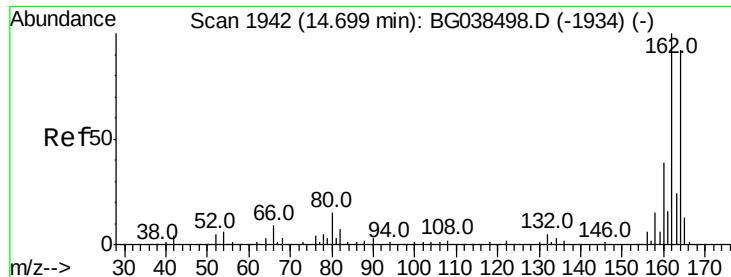
#23  
Nitrobenzene-d5  
Concen: 92.970 ng  
RT: 9.23 min Scan# 1045  
Delta R.T. -0.01 min  
Lab File: BG038943.D  
Acq: 4 Jan 2019 23:44

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 171824      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 44.8  | 34.6 52.0   |
| 54          | 61.8  | 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

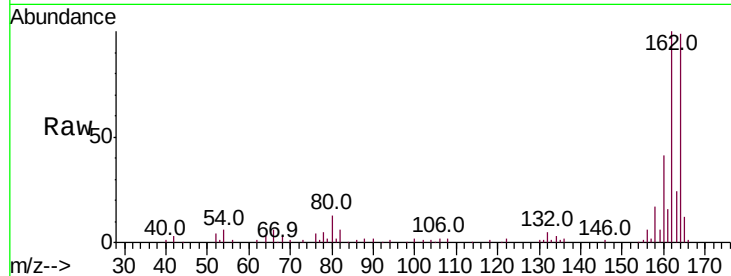




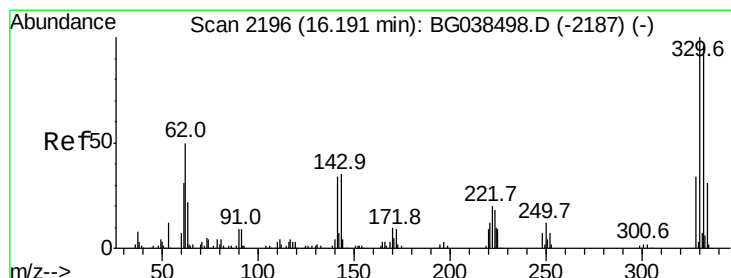
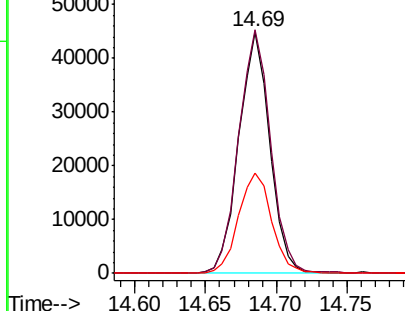
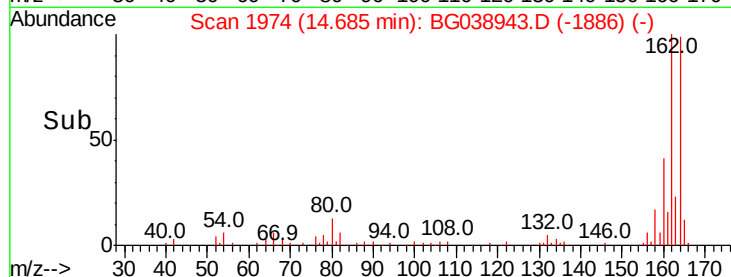
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.69 min Scan# 1974  
 Delta R.T. -0.01 min  
 Lab File: BG038943.D  
 Acq: 4 Jan 2019 23:44

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:164 Resp: 68729  
 Ion Ratio Lower Upper  
 164 100  
 162 100.8 86.6 130.0  
 160 41.3 34.2 51.2

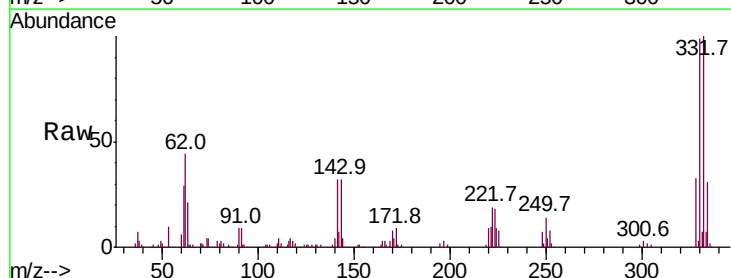


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

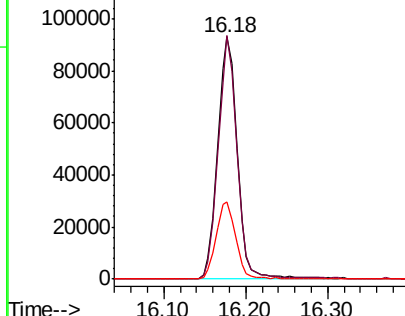
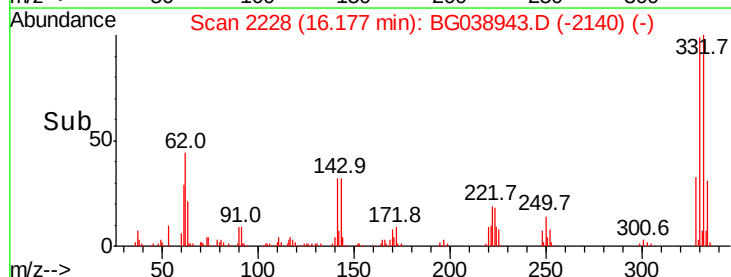


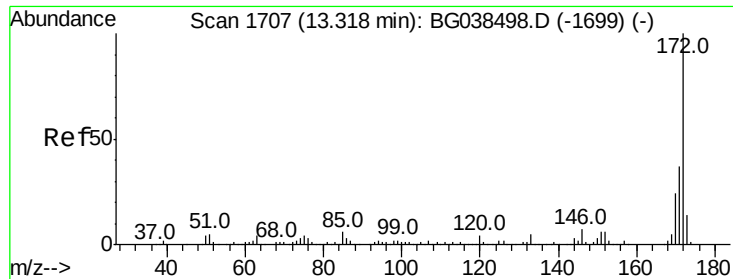
#42  
 2,4,6-Tribromophenol  
 Concen: 164.604 ng  
 RT: 16.18 min Scan# 2228  
 Delta R.T. -0.01 min  
 Lab File: BG038943.D  
 Acq: 4 Jan 2019 23:44

Tgt Ion:330 Resp: 155914  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 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

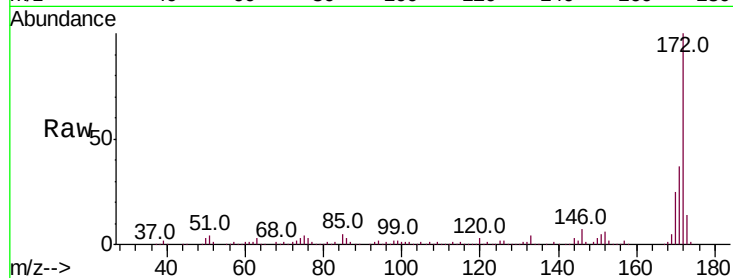




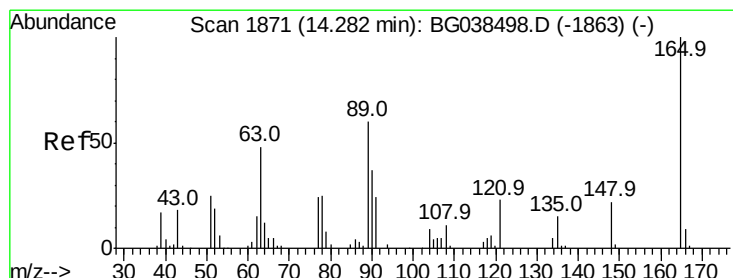
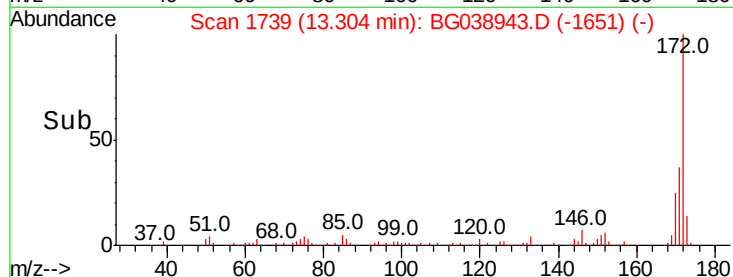
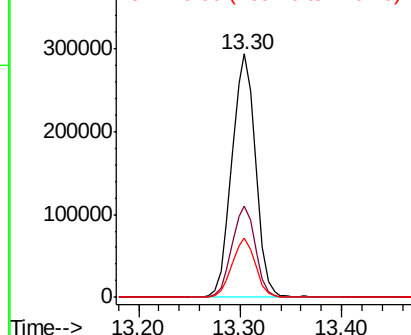
#45  
 2-Fluorobiphenyl  
 Concen: 95.359 ng  
 RT: 13.30 min Scan# 1739  
 Delta R.T. -0.01 min  
 Lab File: BG038943.D  
 Acq: 4 Jan 2019 23:44

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:172 Resp: 477744  
 Ion Ratio Lower Upper  
 172 100  
 171 37.3 29.8 44.6  
 170 24.5 19.5 29.3

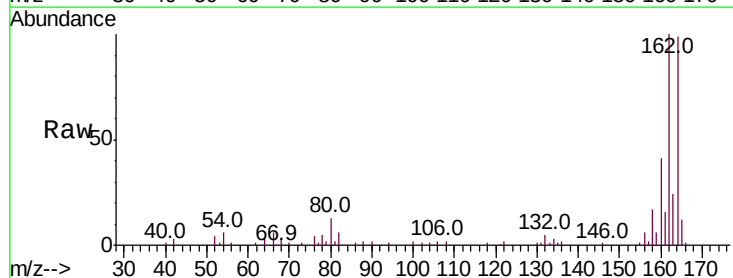


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

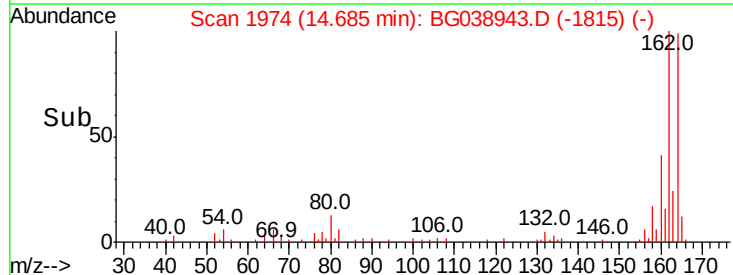
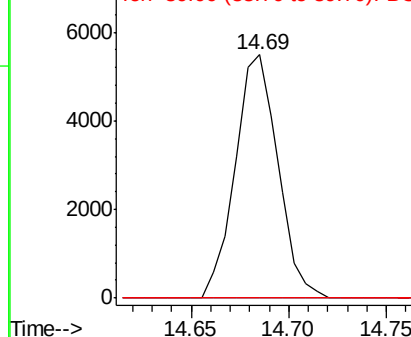


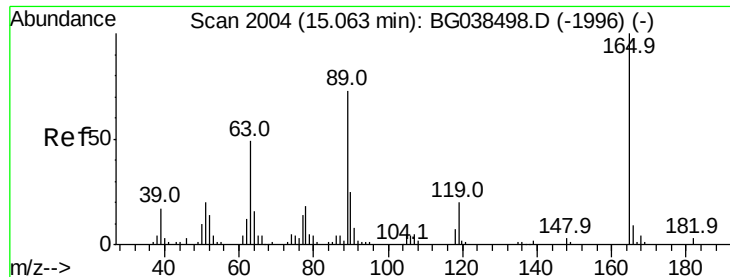
#51  
 2,6-Dinitrotoluene  
 Concen: 6.548 ng  
 RT: 14.69 min Scan# 1974  
 Delta R.T. 0.40 min  
 Lab File: BG038943.D  
 Acq: 4 Jan 2019 23:44

Tgt Ion:165 Resp: 8329  
 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

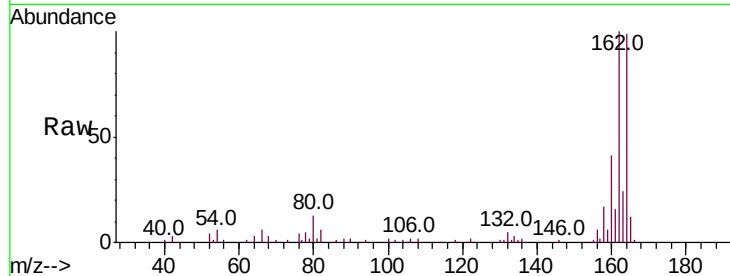




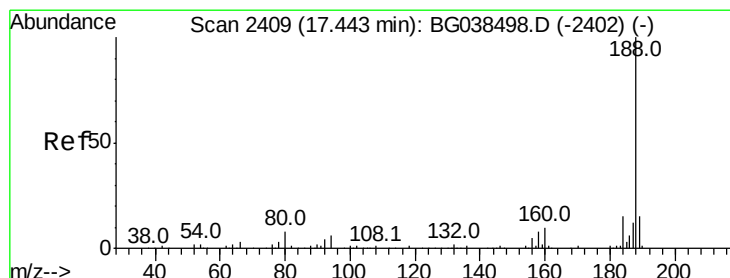
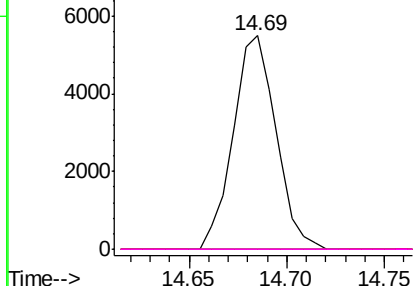
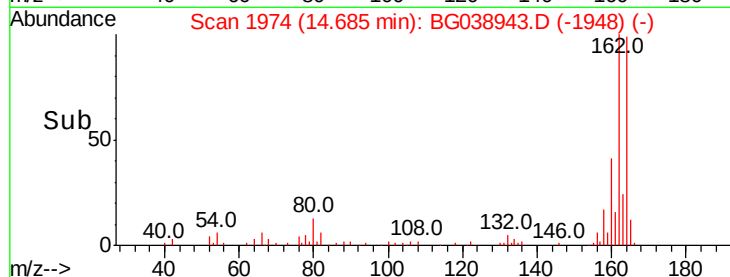
#57  
 2,4-Dinitrotoluene  
 Concen: 4.649 ng  
 RT: 14.69 min Scan# 1974  
 Delta R.T. -0.38 min  
 Lab File: BG038943.D  
 Acq: 4 Jan 2019 23:44

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:165 Resp: 8329  
 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#

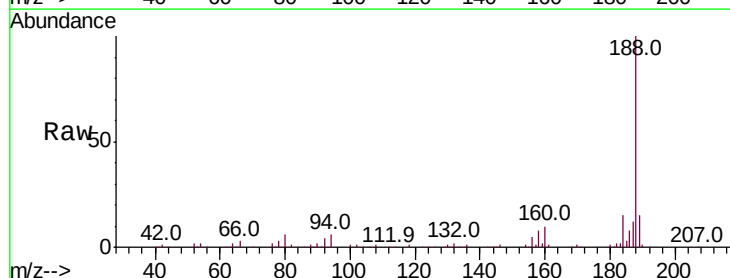


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

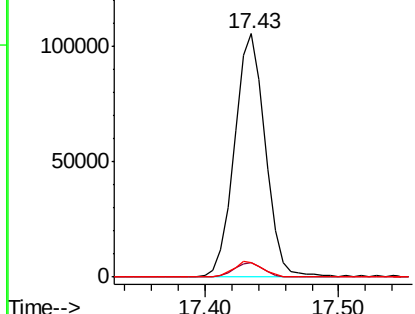
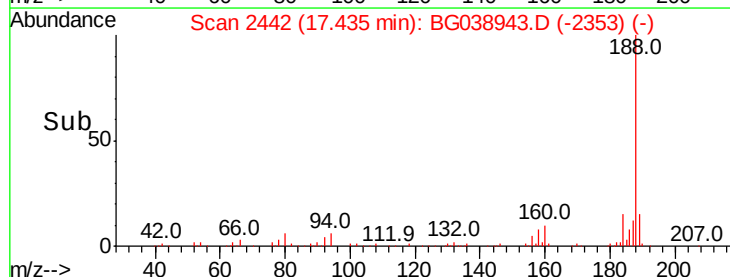


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.43 min Scan# 2442  
 Delta R.T. -0.01 min  
 Lab File: BG038943.D  
 Acq: 4 Jan 2019 23:44

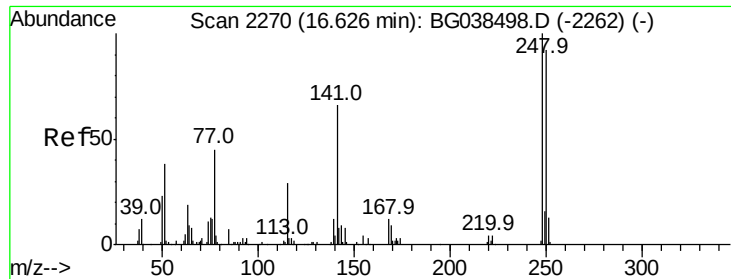
Tgt Ion:188 Resp: 168618  
 Ion Ratio Lower Upper  
 188 100  
 94 6.0 5.1 7.7  
 80 5.8 6.1 9.1#



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



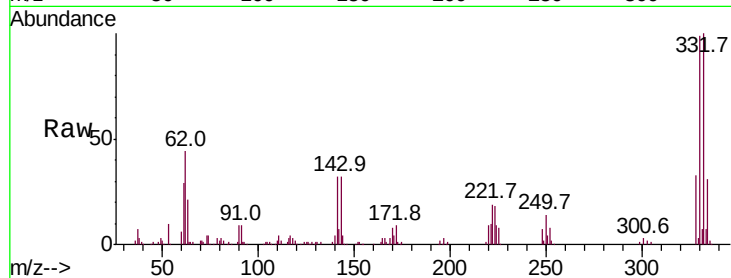




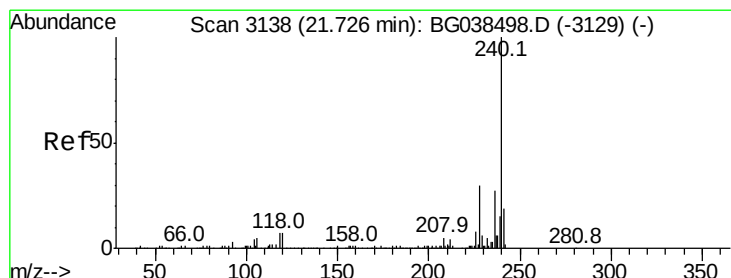
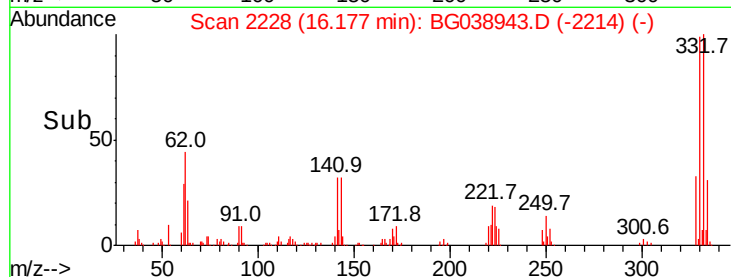
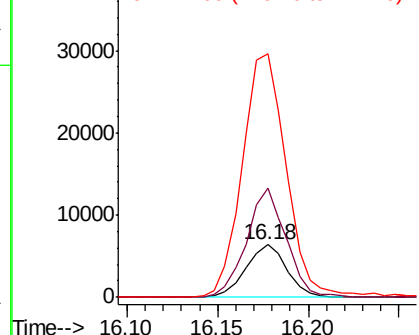
#67  
4-Bromophenyl-phenylether  
Concen: 4.863 ng  
RT: 16.18 min Scan# 2228  
Delta R.T. -0.45 min  
Lab File: BG038943.D  
Acq: 4 Jan 2019 23:44

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 10014  
Ion Ratio Lower Upper  
248 100  
250 207.2 73.4 110.2#  
141 364.5 52.9 79.3#

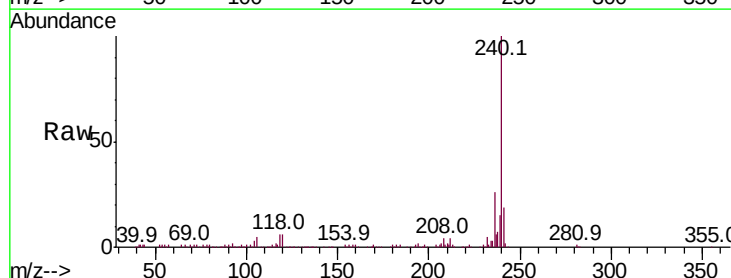


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

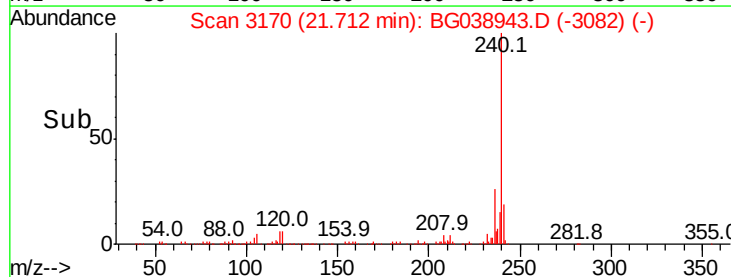
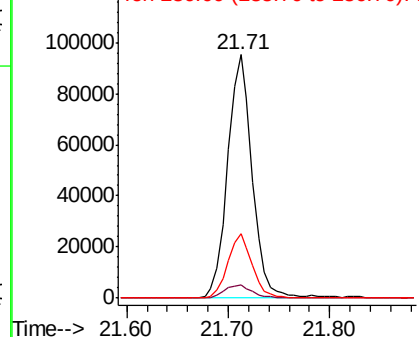


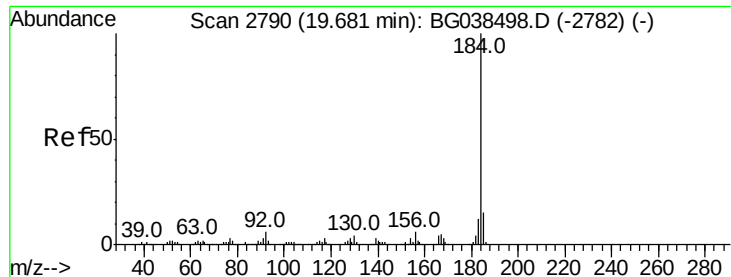
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.71 min Scan# 3170  
Delta R.T. -0.01 min  
Lab File: BG038943.D  
Acq: 4 Jan 2019 23:44

Tgt Ion:240 Resp: 160449  
Ion Ratio Lower Upper  
240 100  
120 5.6 5.3 7.9  
236 26.5 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: 2.897 ng

RT: 20.04 min Scan# 2885

Delta R.T. 0.36 min

Lab File: BG038943.D

Acq: 4 Jan 2019 23:44

Instrument :

BNA\_G

ClientSampleId :

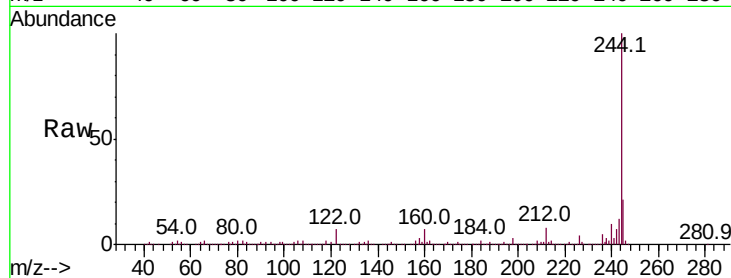
Tot Ion:184 Resp: 13745

Ion Ratio Lower Upper

184 100

185 12.6 12.2 18.2

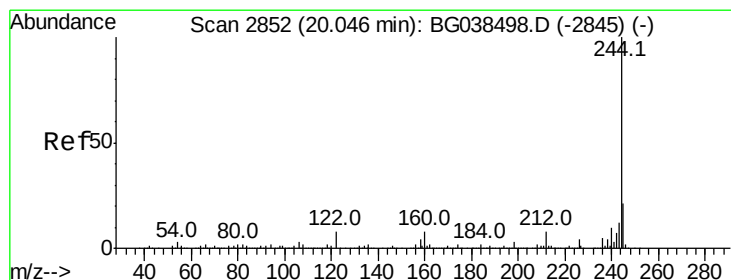
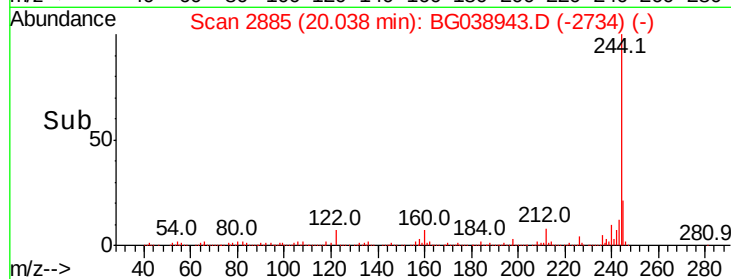
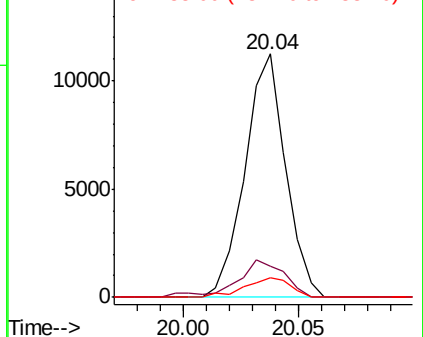
183 8.0 9.6 14.4#



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: 116.949 ng

RT: 20.04 min Scan# 2885

Delta R.T. -0.01 min

Lab File: BG038943.D

Acq: 4 Jan 2019 23:44

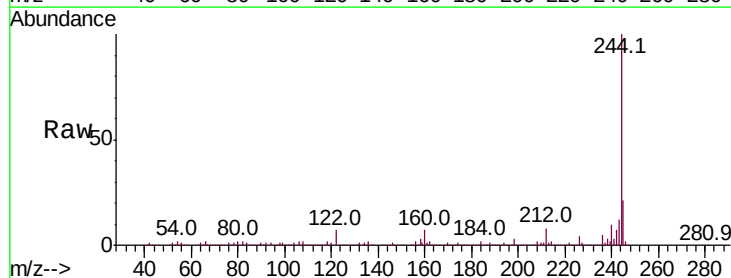
Tgt Ion:244 Resp: 862200

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

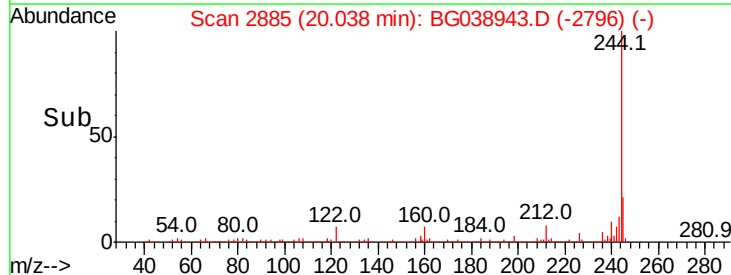
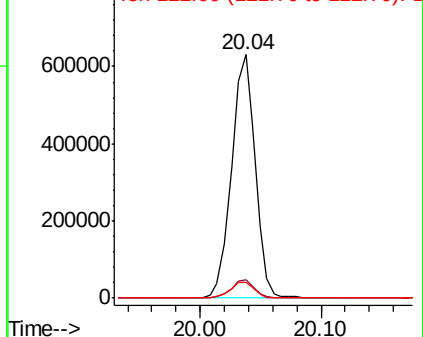
122 6.6 6.3 9.5

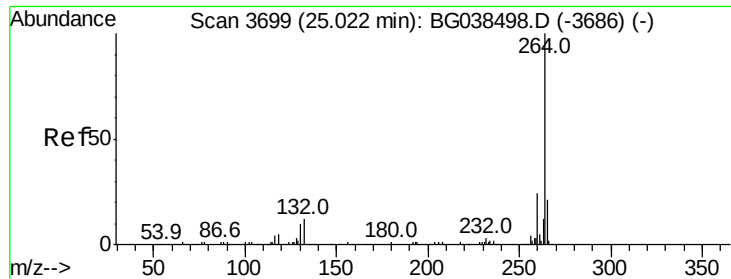


Abundance Ion 244.00 (243.70 to 244.70): E

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: 25.00 min Scan# 3729  
 Delta R.T. -0.03 min  
 Lab File: BG038943.D  
 Acq: 4 Jan 2019 23:44

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.5  | 18.9  | 28.3  |
| 265     | 20.4  | 17.0  | 25.4  |

