

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG022119\  
 Data File : BG039584.D  
 Acq On : 21 Feb 2019 23:23  
 Operator : JU/SJ  
 Sample : PB117266TB  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB117266TB

Quant Time: Feb 22 00:04:35 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG012919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 29 15:41:51 2019  
 Response via : Initial Calibration

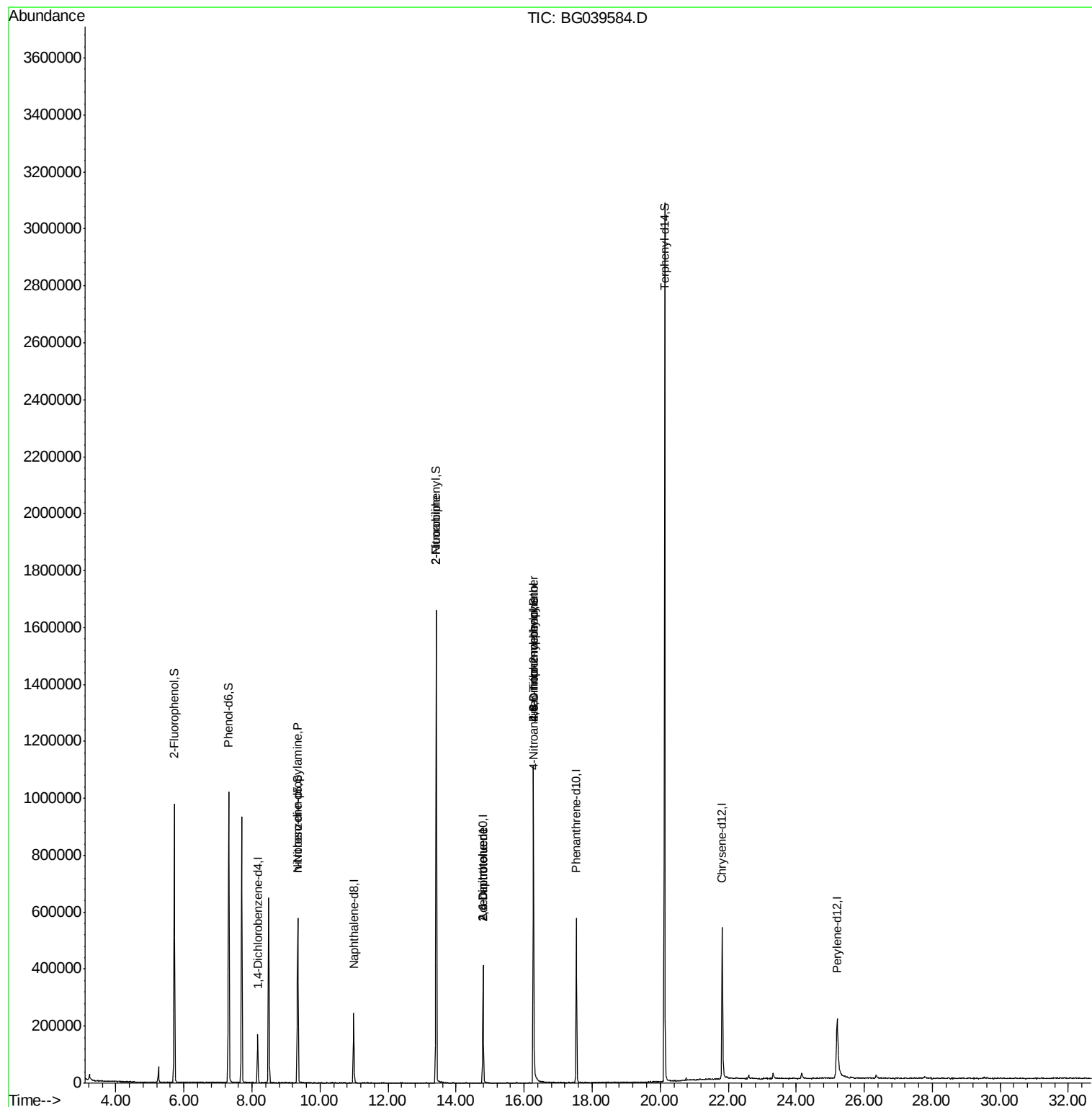
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.17  | 152  | 45865    | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.99 | 136  | 210944   | 20.00     | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.79 | 164  | 146215   | 20.00     | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.53 | 188  | 379488   | 20.00     | ng    | -0.02    |
| 76) Chrysene-d12               | 21.82 | 240  | 383851   | 20.00     | ng    | -0.03    |
| 87) Perylene-d12               | 25.20 | 264  | 336628   | 20.00     | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.71  | 112  | 409224   | 152.71    | ng    | 0.00     |
| 7) Phenol-d6                   | 7.32  | 99   | 596783   | 151.29    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.34  | 82   | 342079   | 101.31    | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.28 | 330  | 209936   | 133.34    | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.42 | 172  | 879297   | 86.27     | ng    | -0.02    |
| 79) Terphenyl-d14              | 20.13 | 244  | 1479397  | 81.58     | ng    | -0.02    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 7.32  | 77   | 1045     | Below Cal |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 9.34  | 70   | 44785    | 15.996 ng | #     | 4        |
| 48) 2-Nitroaniline             | 13.41 | 65   | 1184     | 8.669 ng  | #     | 1        |
| 51) 2,6-Dinitrotoluene         | 14.80 | 165  | 18305    | 13.720 ng | #     | 23       |
| 57) 2,4-Dinitrotoluene         | 14.80 | 165  | 18305    | 13.245 ng | #     | 18       |
| 62) 4-Nitroaniline             | 16.29 | 138  | 63       | 4.226 ng  | #     | 1        |
| 65) 4,6-Dinitro-2-methylphenol | 16.27 | 198  | 740      | 4.800 ng  | #     | 22       |
| 67) 4-Bromophenyl-phenylether  | 16.28 | 248  | 16225    | 3.854 ng  | #     | 1        |

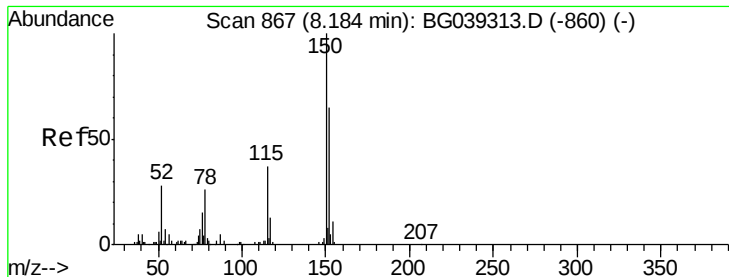
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG022119\  
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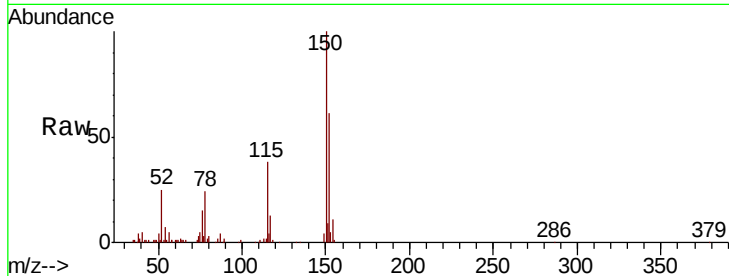


#1

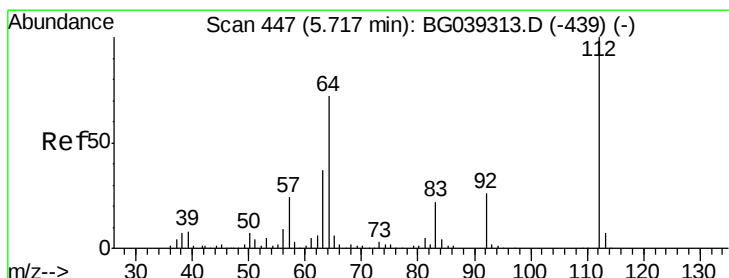
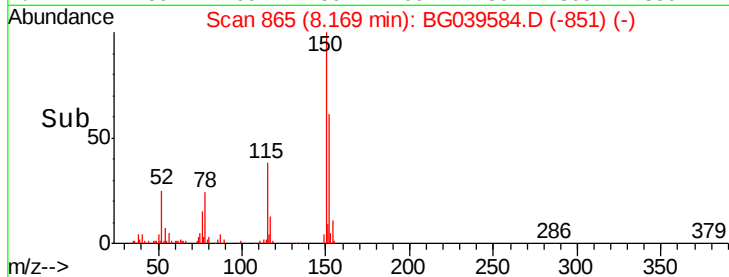
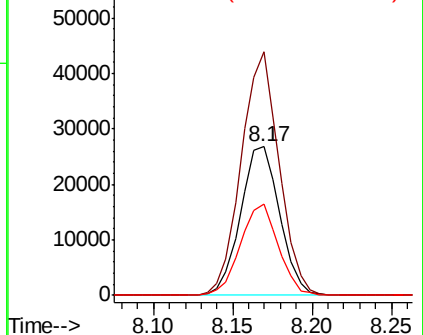
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.17 min Scan# 865  
Delta R.T. -0.01 min  
Lab File: BG039584.D  
Acq: 21 Feb 2019 23:23

Instrument :  
BNA\_G  
ClientSampleId :  
PB117266TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 163.7 | 123.7 | 185.5 |
| 115     | 61.7  | 45.9  | 68.9  |



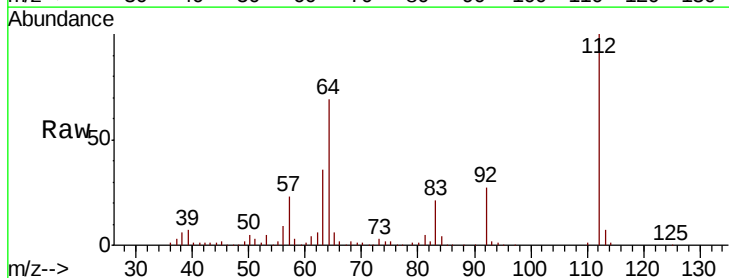
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



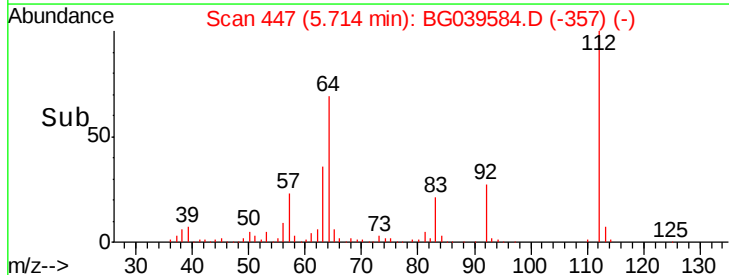
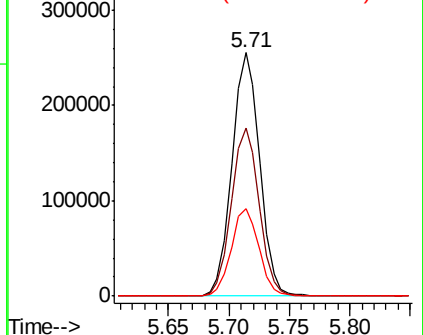
#5

2-Fluorophenol  
Concen: 152.707 ng  
RT: 5.71 min Scan# 447  
Delta R.T. -0.00 min  
Lab File: BG039584.D  
Acq: 21 Feb 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.0  | 57.8  | 86.8  |
| 63      | 36.1  | 29.8  | 44.6  |



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: 151.292 ng

RT: 7.32 min Scan# 720

Delta R.T. -0.00 min

Lab File: BG039584.D

Acq: 21 Feb 2019 23:23

Instrument :

BNA\_G

ClientSampleId :

PB117266TB

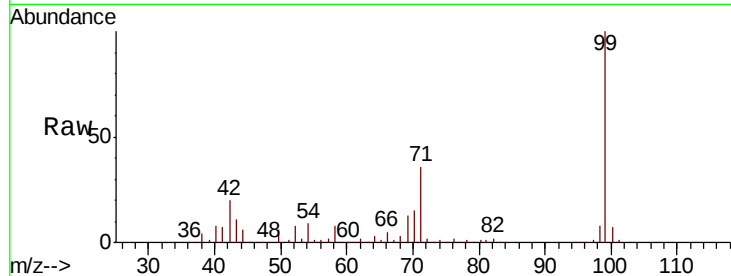
Tgt Ion: 99 Resp: 596783

Ion Ratio Lower Upper

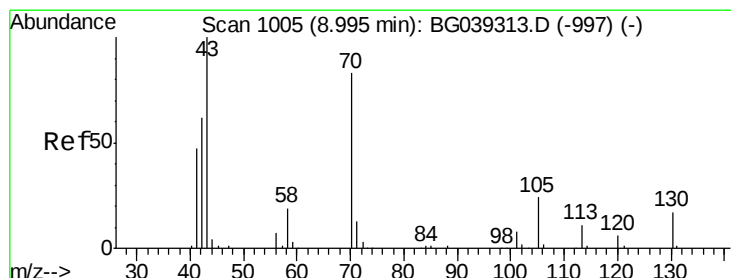
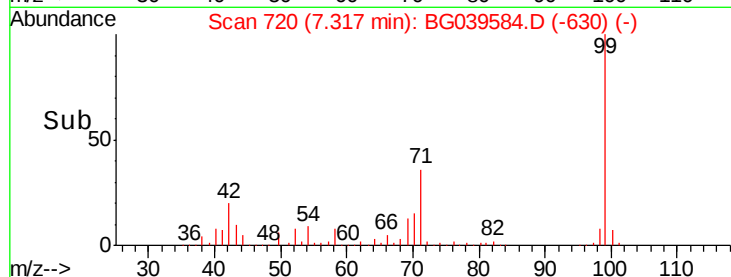
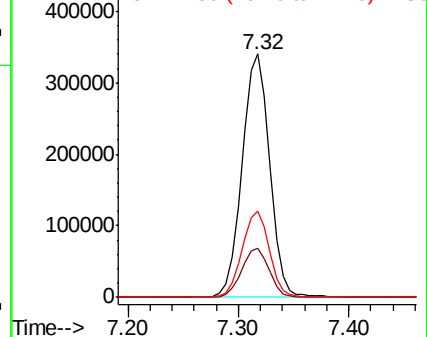
99 100

42 19.9 18.2 27.2

71 35.5 28.0 42.0



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: 15.996 ng

RT: 9.34 min Scan# 1065

Delta R.T. 0.35 min

Lab File: BG039584.D

Acq: 21 Feb 2019 23:23

Tgt Ion: 70 Resp: 44785

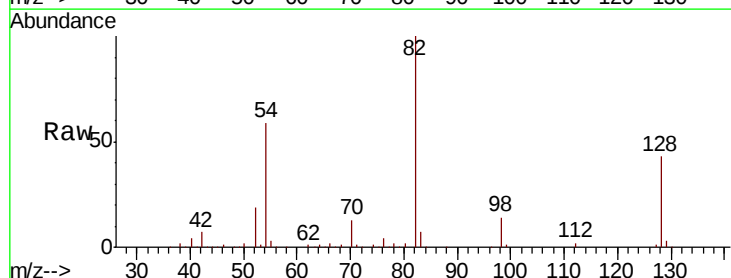
Ion Ratio Lower Upper

70 100

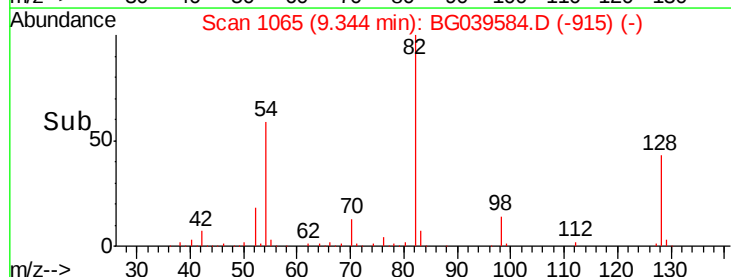
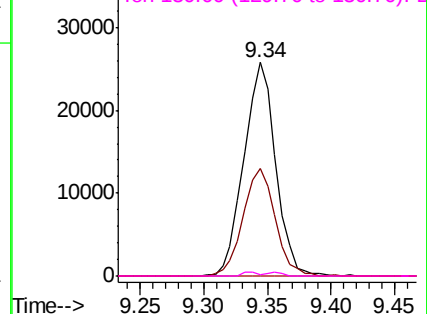
42 50.1 60.4 90.6#

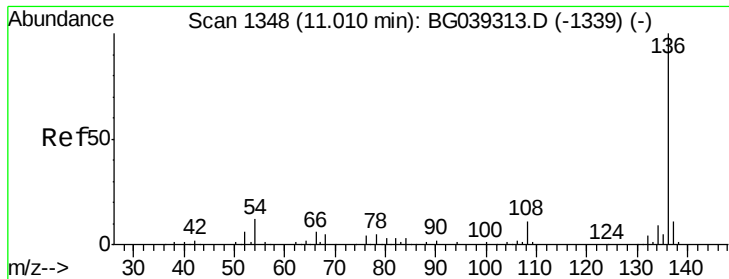
101 0.0 7.5 11.3#

130 0.9 16.9 25.3#



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

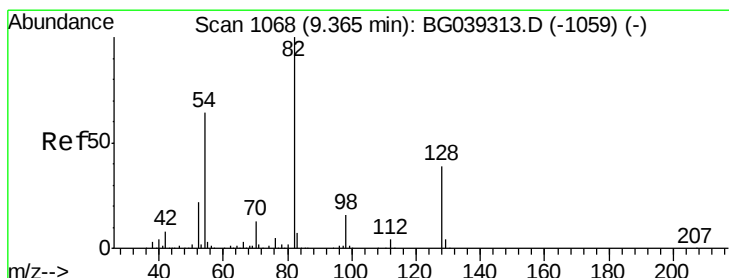
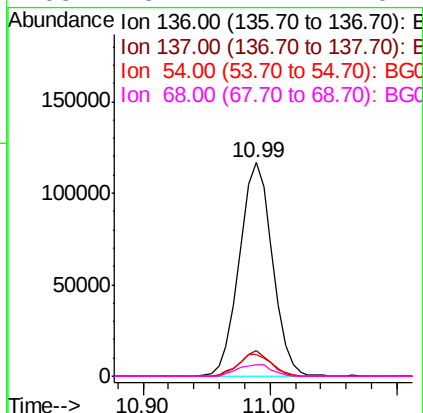
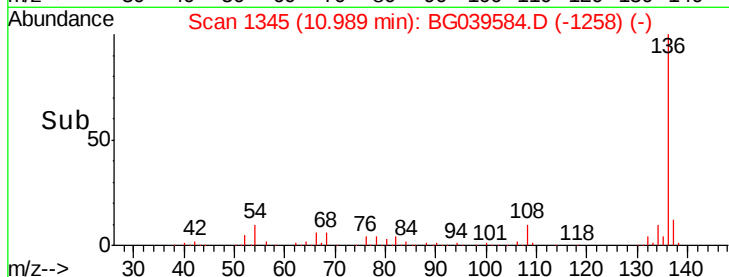
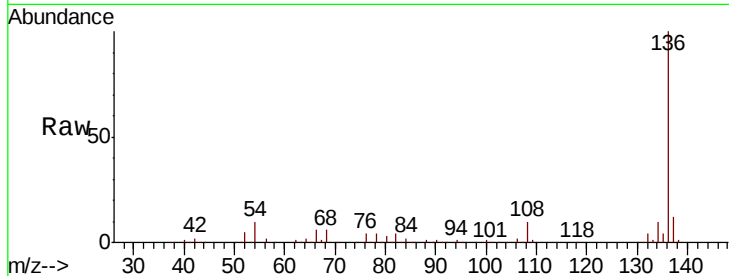




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1345  
Delta R.T. -0.02 min  
Lab File: BG039584.D  
Acq: 21 Feb 2019 23:23

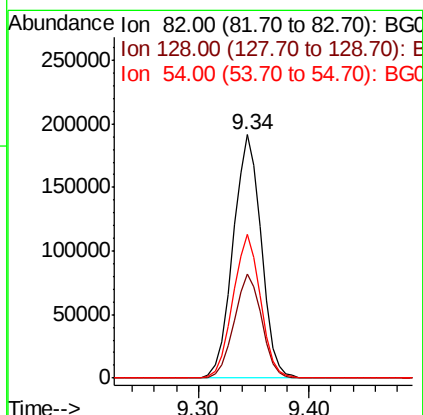
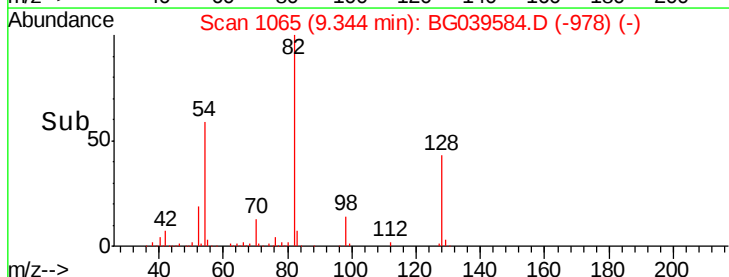
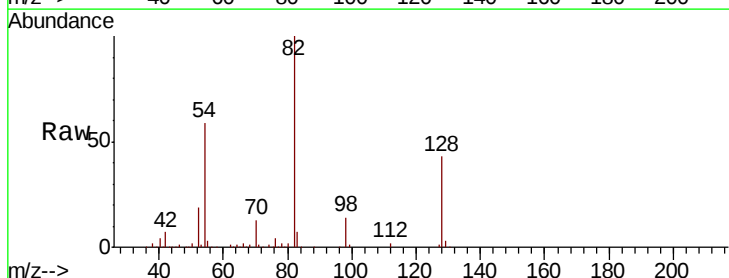
Instrument :  
BNA\_G  
ClientSampleId :  
PB117266TB

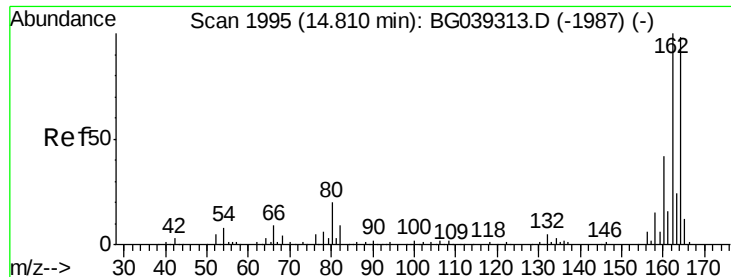
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 210944 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 12.0  | 9.1   | 13.7   |
| 54       | 10.5  | 9.4   | 14.2   |
| 68       | 5.7   | 4.2   | 6.4    |



#23  
Nitrobenzene-d5  
Concen: 101.308 ng  
RT: 9.34 min Scan# 1065  
Delta R.T. -0.02 min  
Lab File: BG039584.D  
Acq: 21 Feb 2019 23:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 342079 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.0  | 31.3  | 46.9   |
| 54       | 59.1  | 50.9  | 76.3   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.79 min Scan# 1992

Delta R.T. -0.02 min

Lab File: BG039584.D

Acq: 21 Feb 2019 23:23

Instrument :

BNA\_G

ClientSampleId :

PB117266TB

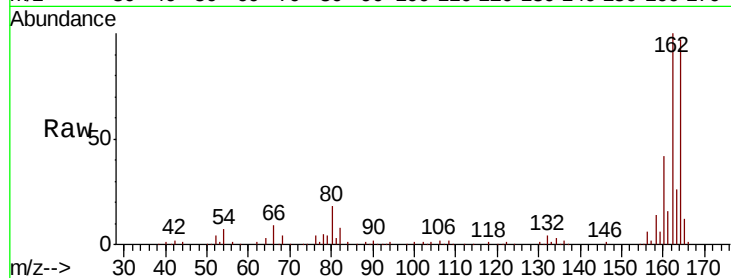
Tgt Ion:164 Resp: 146215

Ion Ratio Lower Upper

164 100

162 103.1 81.6 122.4

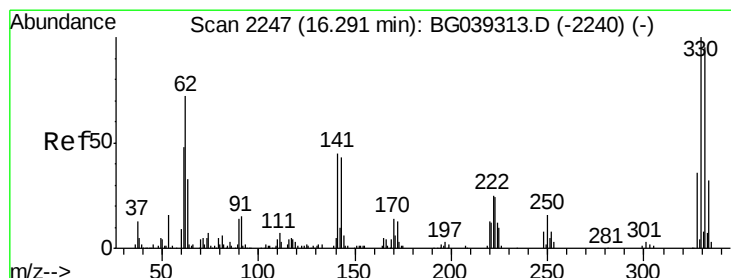
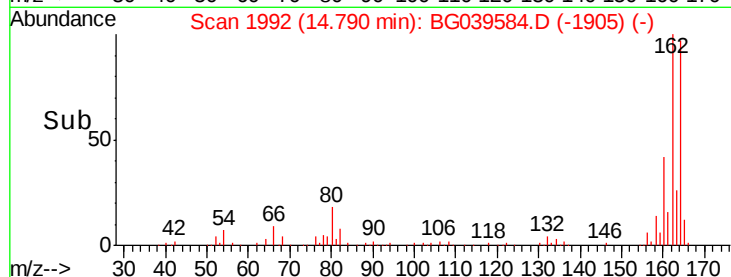
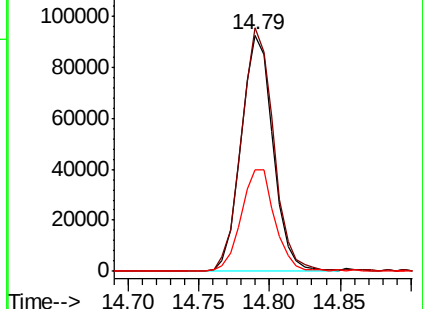
160 43.1 34.2 51.2



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: 133.336 ng

RT: 16.28 min Scan# 2245

Delta R.T. -0.01 min

Lab File: BG039584.D

Acq: 21 Feb 2019 23:23

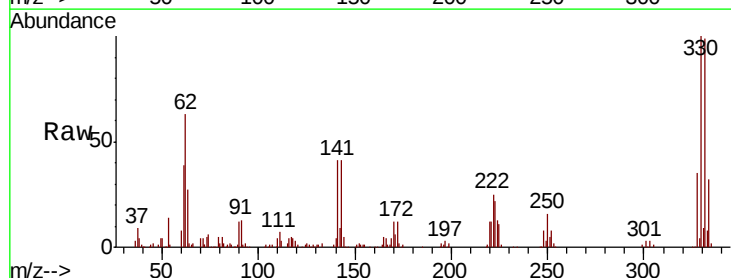
Tgt Ion:330 Resp: 209936

Ion Ratio Lower Upper

330 100

332 94.9 75.7 113.5

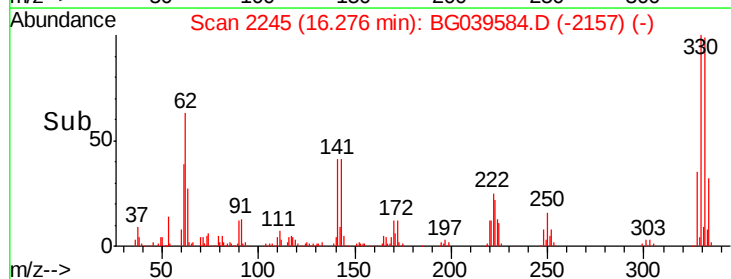
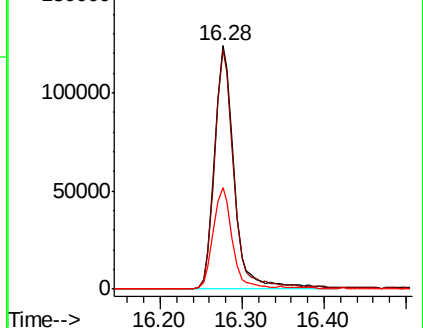
141 40.3 35.6 53.4



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

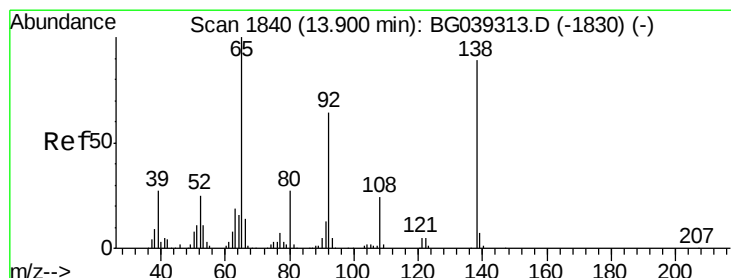
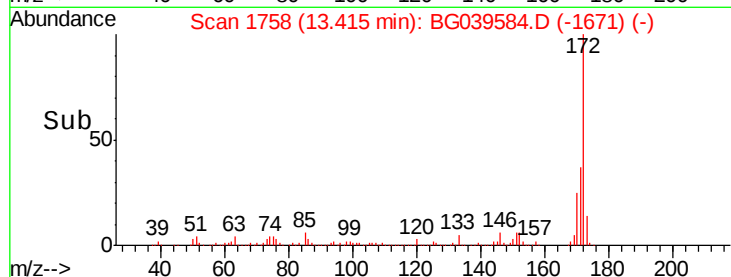
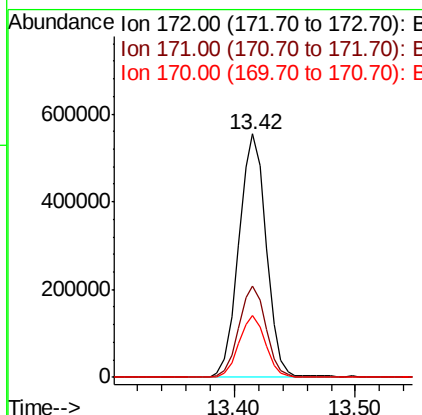
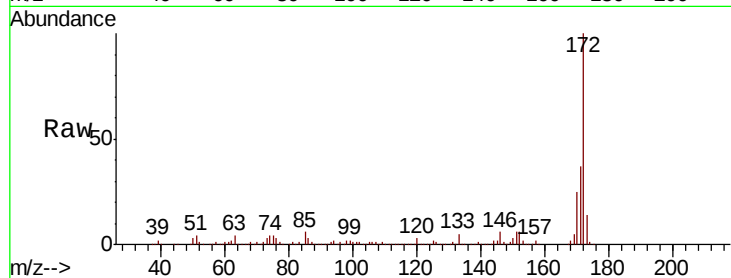




#45  
 2-Fluorobiphenyl  
 Concen: 86.270 ng  
 RT: 13.42 min Scan# 1758  
 Delta R.T. -0.02 min  
 Lab File: BG039584.D  
 Acq: 21 Feb 2019 23:23

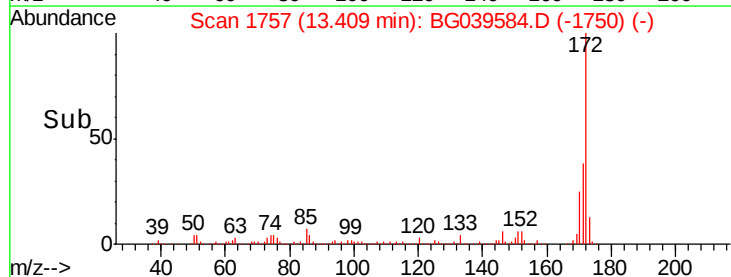
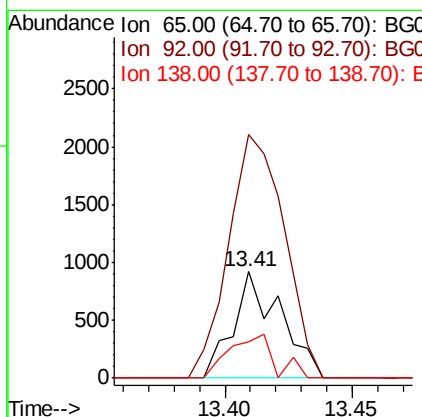
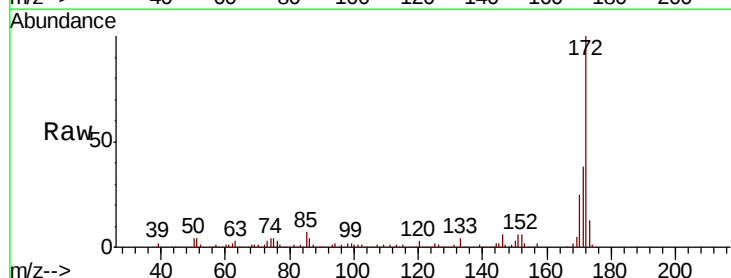
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB117266TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.3  | 30.8  | 46.2  |
| 170     | 25.2  | 20.2  | 30.4  |



#48  
 2-Nitroaniline  
 Concen: 8.669 ng  
 RT: 13.41 min Scan# 1757  
 Delta R.T. -0.49 min  
 Lab File: BG039584.D  
 Acq: 21 Feb 2019 23:23

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 92      | 229.4 | 51.4  | 77.2#  |
| 138     | 34.1  | 71.4  | 107.2# |

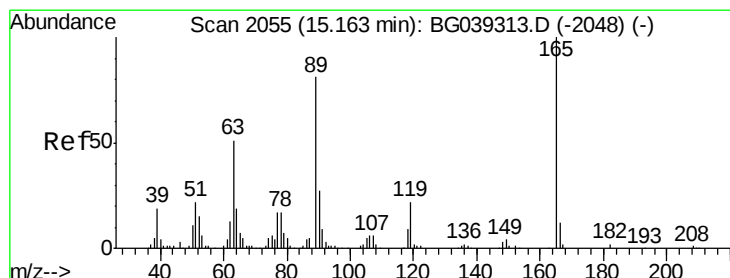
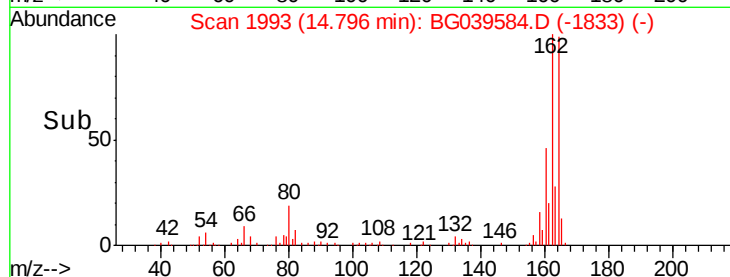
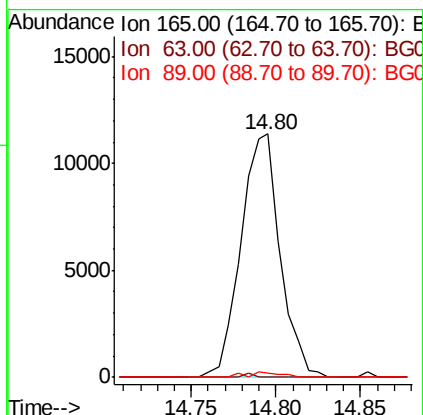
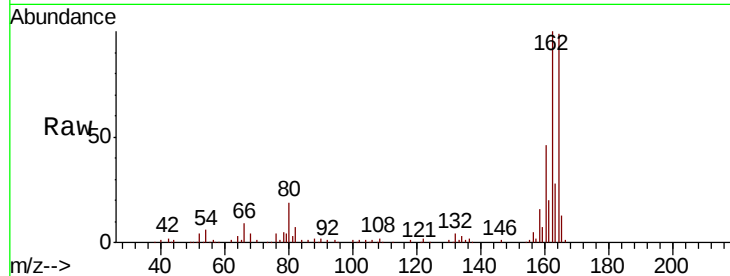




#51  
 2,6-Dinitrotoluene  
 Concen: 13.720 ng  
 RT: 14.80 min Scan# 1993  
 Delta R.T. 0.41 min  
 Lab File: BG039584.D  
 Acq: 21 Feb 2019 23:23

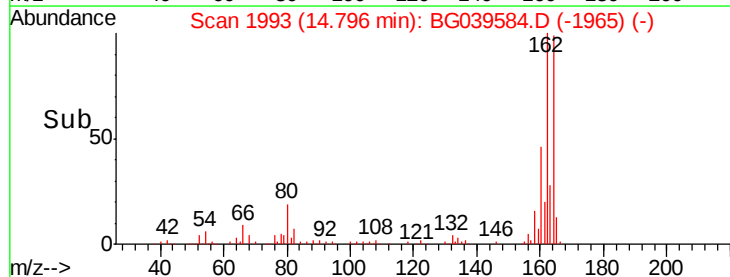
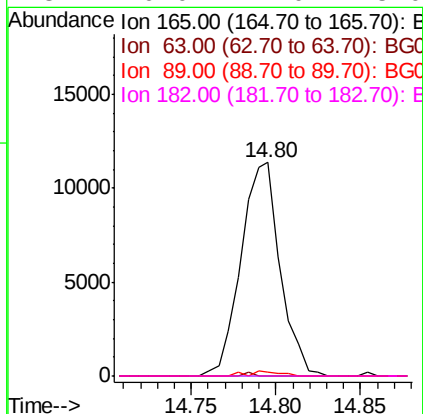
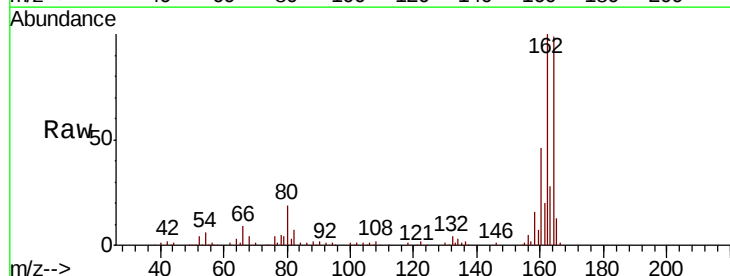
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB117266TB

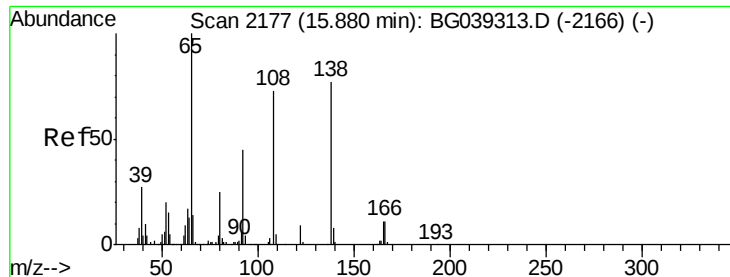
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 47.0  | 70.6# |
| 89      | 1.6   | 45.8  | 68.8# |



#57  
 2,4-Dinitrotoluene  
 Concen: 13.245 ng  
 RT: 14.80 min Scan# 1993  
 Delta R.T. -0.37 min  
 Lab File: BG039584.D  
 Acq: 21 Feb 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 41.0  | 61.6# |
| 89      | 1.6   | 64.6  | 96.8# |
| 182     | 0.0   | 2.0   | 3.0#  |





#62

4-Nitroaniline

Concen: 4.226 ng

RT: 16.29 min Scan# 2247

Delta R.T. 0.41 min

Lab File: BG039584.D

Acq: 21 Feb 2019 23:23

Instrument :

BNA\_G

ClientSampleId :

PB117266TB

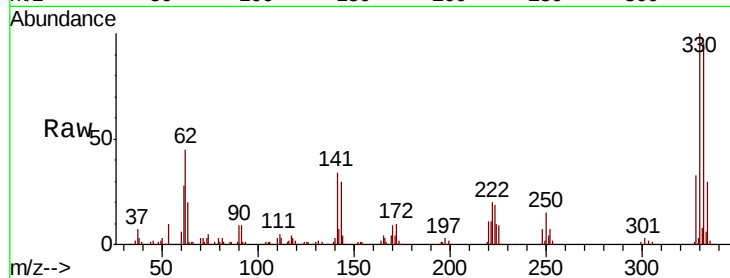
Tgt Ion:138 Resp: 63

Ion Ratio Lower Upper

138 100

92 308.3 38.7 78.7#

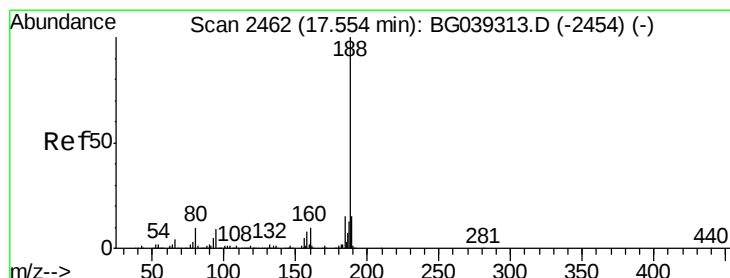
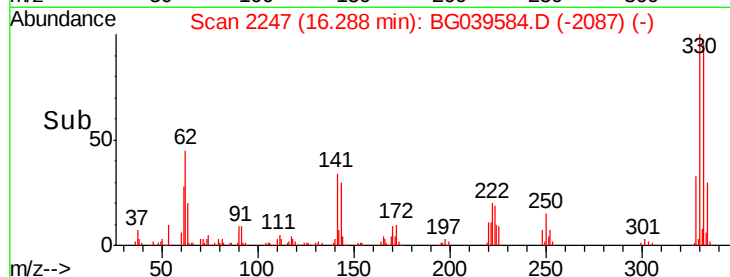
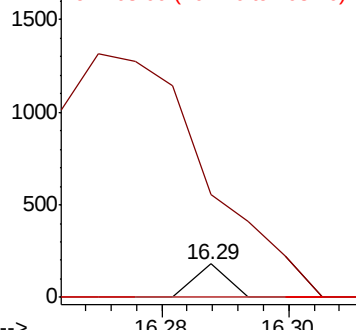
108 0.0 74.6 114.6#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG

Ion 108.00 (107.70 to 108.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.53 min Scan# 2459

Delta R.T. -0.02 min

Lab File: BG039584.D

Acq: 21 Feb 2019 23:23

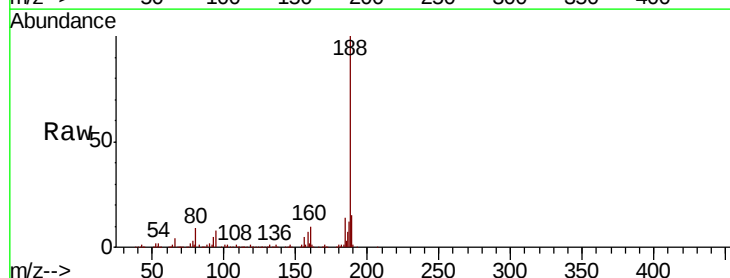
Tgt Ion:188 Resp: 379488

Ion Ratio Lower Upper

188 100

94 7.9 6.9 10.3

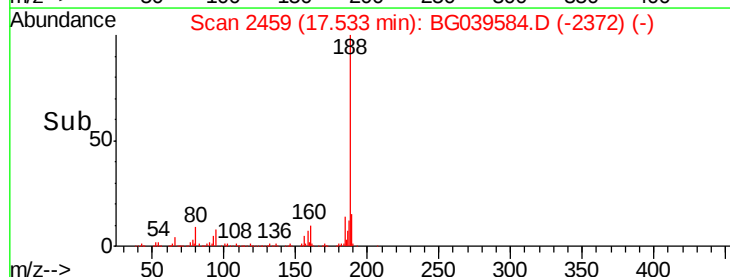
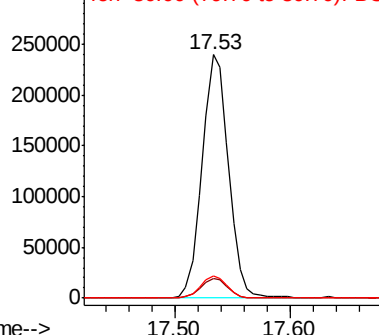
80 9.2 8.1 12.1

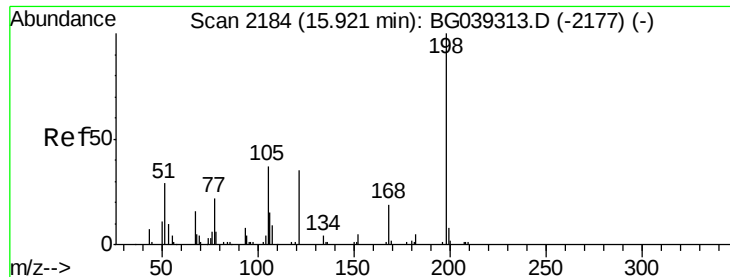


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG

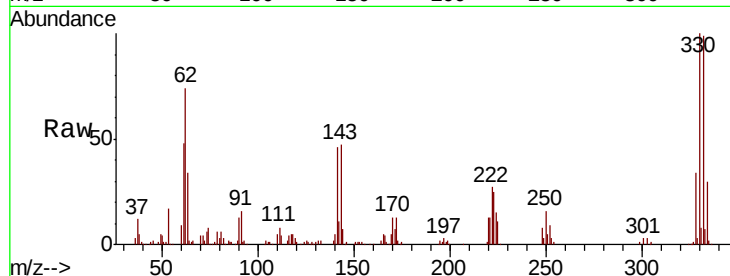




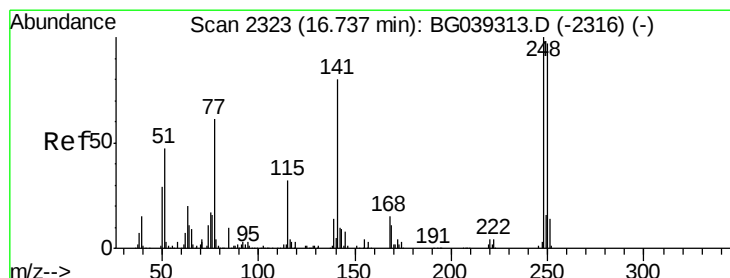
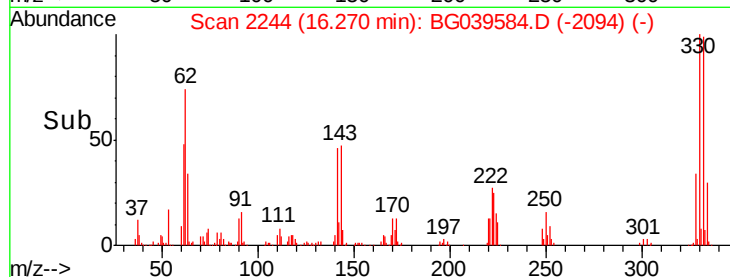
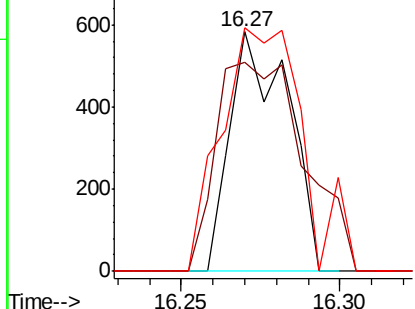
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 4.800 ng  
 RT: 16.27 min Scan# 2244  
 Delta R.T. 0.35 min  
 Lab File: BG039584.D  
 Acq: 21 Feb 2019 23:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB117266TB

Tgt Ion:198 Resp: 740  
 Ion Ratio Lower Upper  
 198 100  
 51 87.1 27.4 67.4#  
 105 101.7 19.7 59.7#

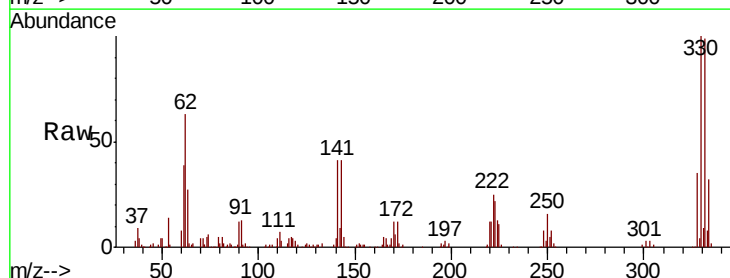


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG0  
 Ion 105.00 (104.70 to 105.70): E

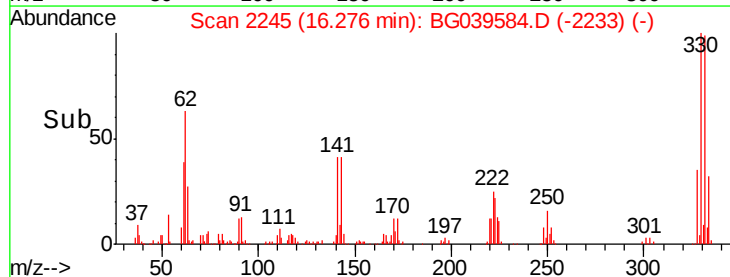
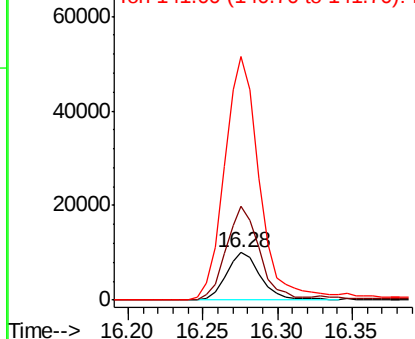


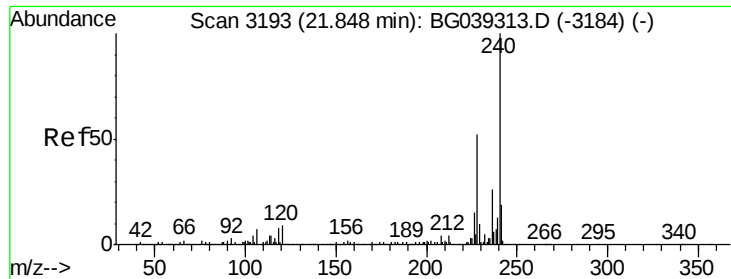
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.854 ng  
 RT: 16.28 min Scan# 2245  
 Delta R.T. -0.46 min  
 Lab File: BG039584.D  
 Acq: 21 Feb 2019 23:23

Tgt Ion:248 Resp: 16225  
 Ion Ratio Lower Upper  
 248 100  
 250 197.1 77.6 116.4#  
 141 512.8 63.9 95.9#



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: 21.82 min Scan# 3189

Delta R.T. -0.03 min

Lab File: BG039584.D

Acq: 21 Feb 2019 23:23

Instrument :

BNA\_G

ClientSampleId :

PB117266TB

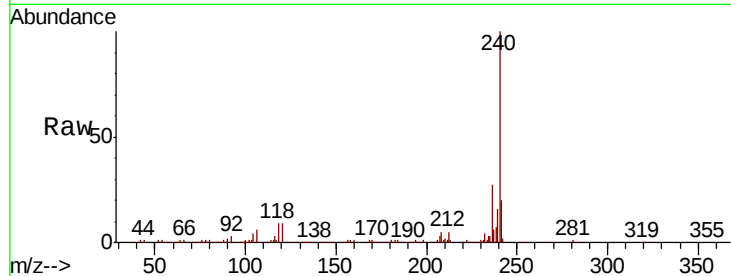
Tgt Ion:240 Resp: 383851

Ion Ratio Lower Upper

240 100

120 8.9 7.0 10.6

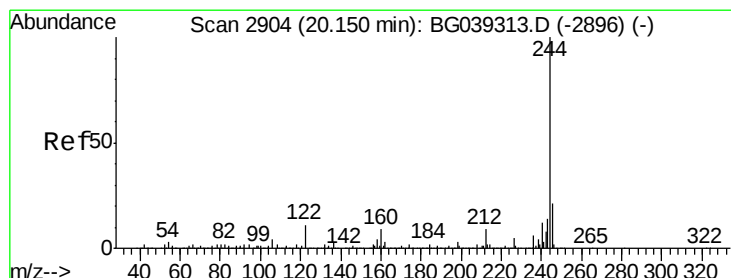
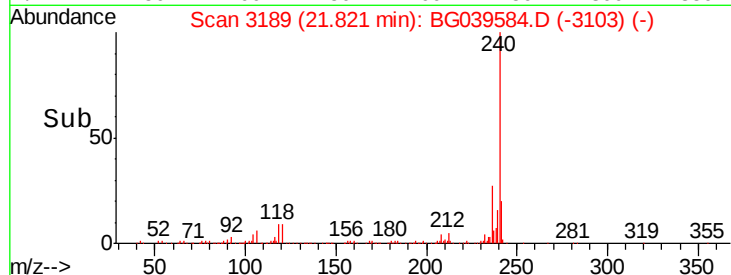
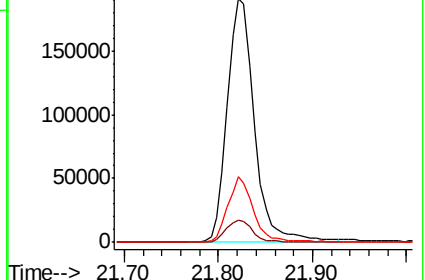
236 27.0 21.0 31.4



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



#79

Terphenyl-d14

Concen: 81.579 ng

RT: 20.13 min Scan# 2901

Delta R.T. -0.02 min

Lab File: BG039584.D

Acq: 21 Feb 2019 23:23

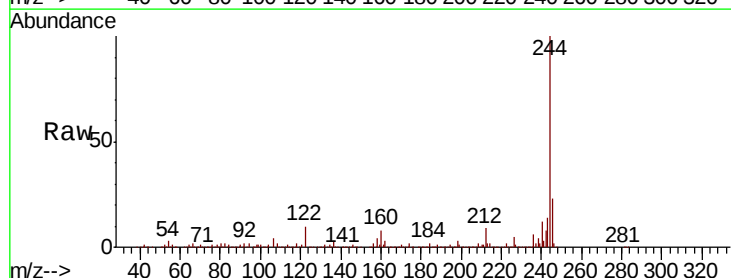
Tgt Ion:244 Resp: 1479397

Ion Ratio Lower Upper

244 100

212 9.1 7.3 10.9

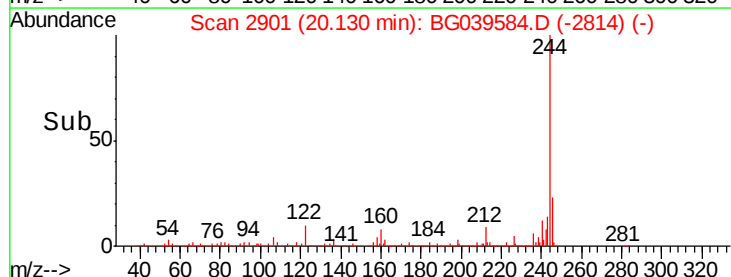
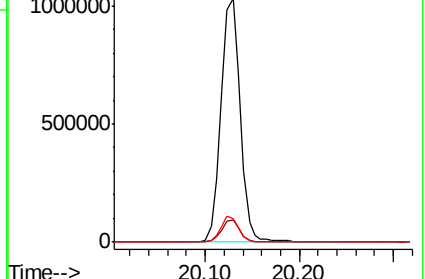
122 9.7 8.4 12.6

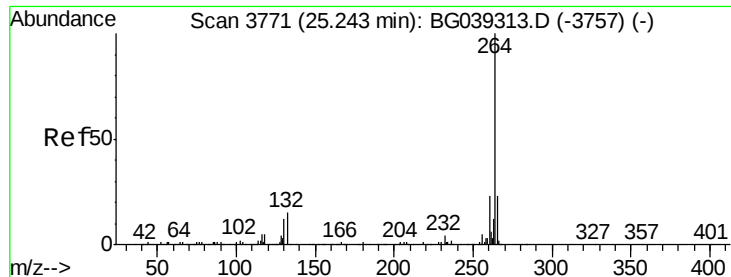


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.20 min Scan# 3765  
Delta R.T. -0.04 min  
Lab File: BG039584.D  
Acq: 21 Feb 2019 23:23

Instrument :  
BNA\_G  
ClientSampleId :  
PB117266TB

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 336628 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 25.1  | 18.2  | 27.4   |
| 265      | 22.4  | 18.5  | 27.7   |

