

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG050719\  
 Data File : BG040766.D  
 Acq On : 7 May 2019 12:47  
 Operator : HP/JU  
 Sample : PB119476BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB119476BL

Quant Time: May 08 03:52:50 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG042319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 24 05:35:33 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.15  | 152  | 45186    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.97 | 136  | 180996   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 14.77 | 164  | 131545   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 17.51 | 188  | 369214   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 21.80 | 240  | 370746   | 20.00 | ng    | -0.03    |
| 87) Perylene-d12          | 25.16 | 264  | 294842   | 20.00 | ng    | -0.04    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.67  | 112  | 332768   | 129.82 | ng    | -0.01    |
| 7) Phenol-d6                | 7.28  | 99   | 486158   | 123.18 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.32  | 82   | 336380   | 85.87  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 16.26 | 330  | 236587   | 130.85 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 13.39 | 172  | 749623   | 82.30  | ng    | -0.02    |
| 79) Terphenyl-d14           | 20.11 | 244  | 1513423  | 90.44  | ng    | -0.02    |

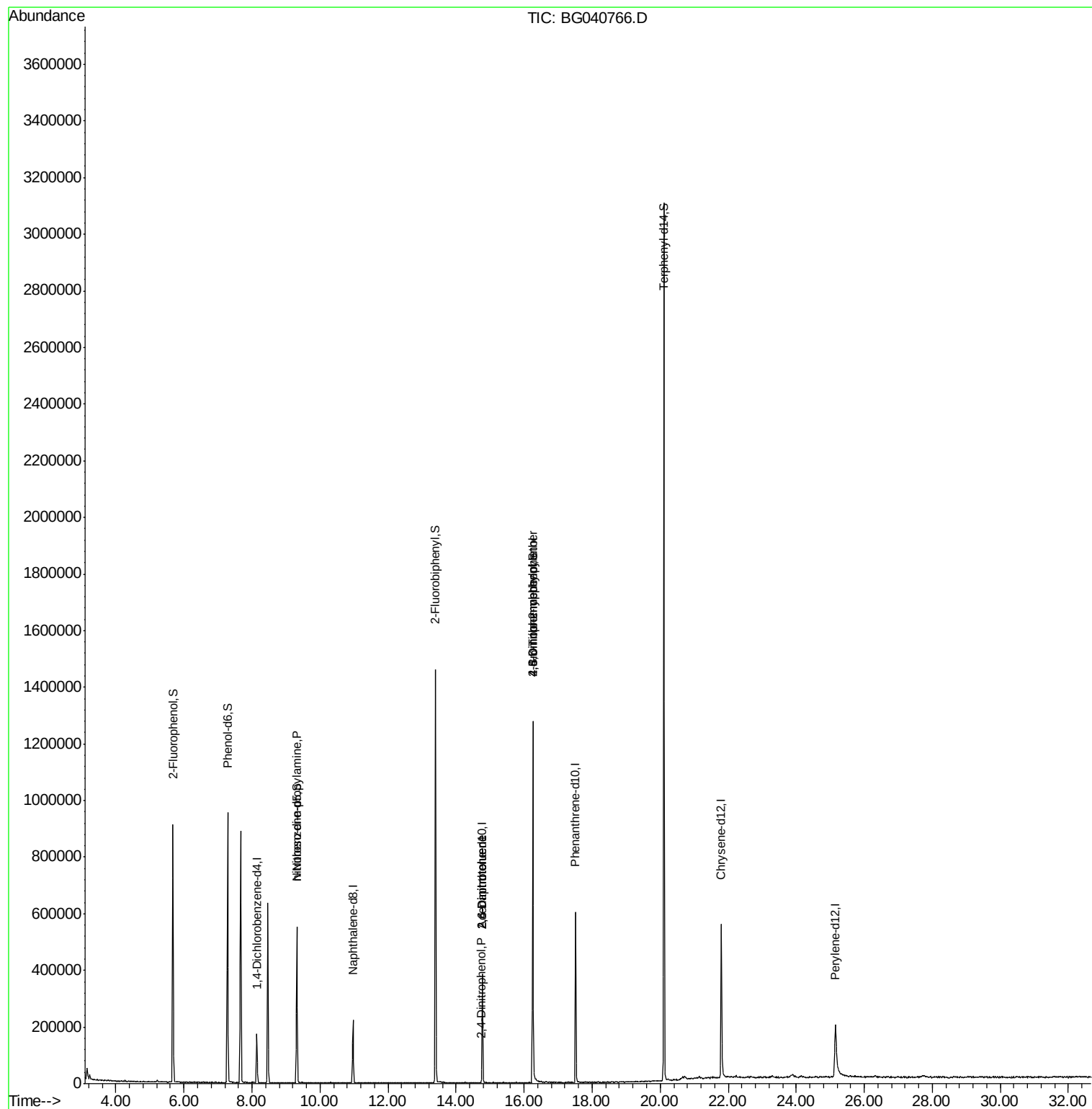
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.28  | 77   | 1185     | Below Cal |       | # 6    |
| 19) n-Nitroso-di-n-propylamine | 9.32  | 70   | 48866    | 13.754    | ng    | # 74   |
| 51) 2,6-Dinitrotoluene         | 14.77 | 165  | 17684    | 8.233     | ng    | # 12   |
| 54) 2,4-Dinitrophenol          | 14.73 | 184  | 75       | 7.071     | ng    | # 37   |
| 57) 2,4-Dinitrotoluene         | 14.77 | 165  | 17684    | 6.059     | ng    | # 14   |
| 65) 4,6-Dinitro-2-methylphenol | 16.26 | 198  | 689      | 7.424     | ng    | # 62   |
| 67) 4-Bromophenyl-phenylether  | 16.26 | 248  | 16924    | 3.679     | ng    | # 1    |

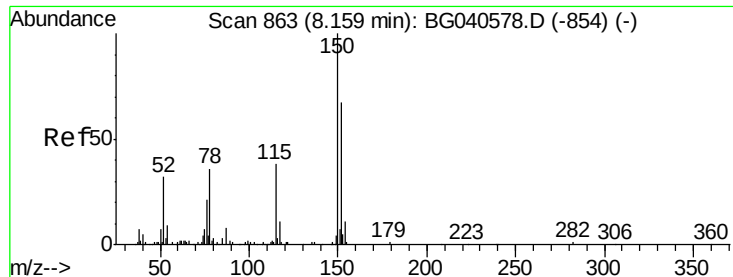
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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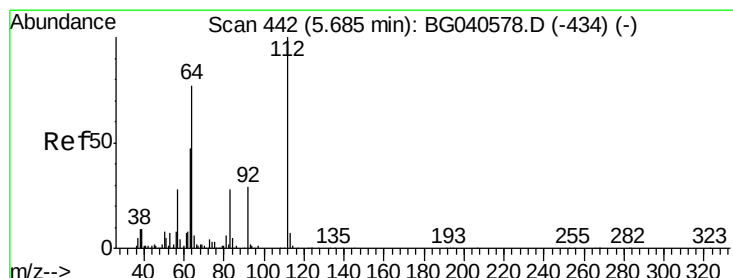
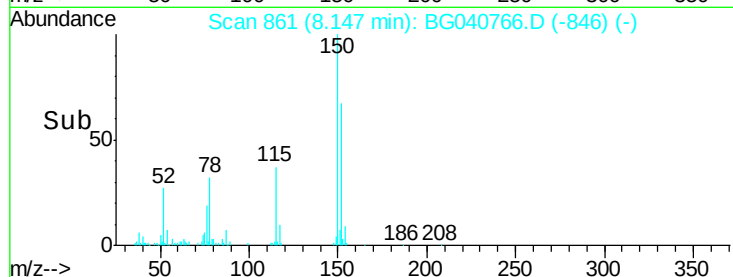
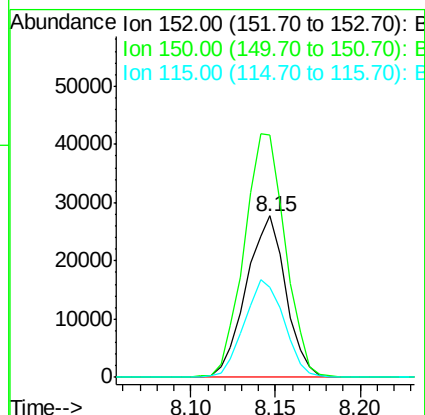
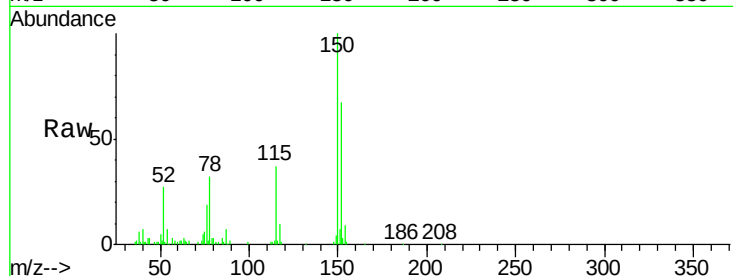


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.15 min Scan# 861  
Delta R.T. -0.01 min  
Lab File: BG040766.D  
Acq: 7 May 2019 12:47

Instrument :  
BNA\_G  
ClientSampleId :  
PB119476BL

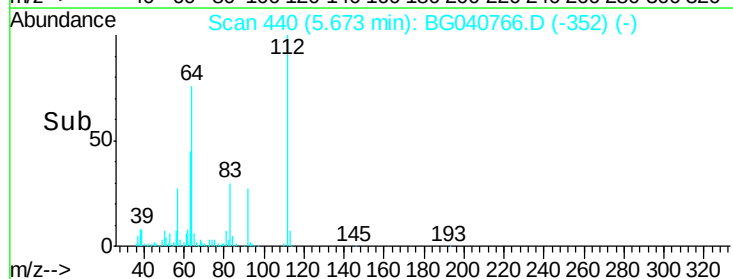
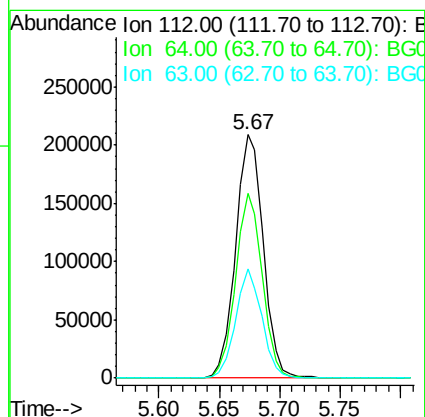
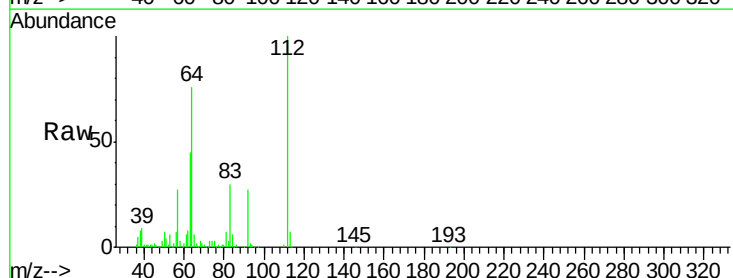
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.8 | 120.2 | 180.2 |
| 115     | 55.5  | 46.2  | 69.2  |

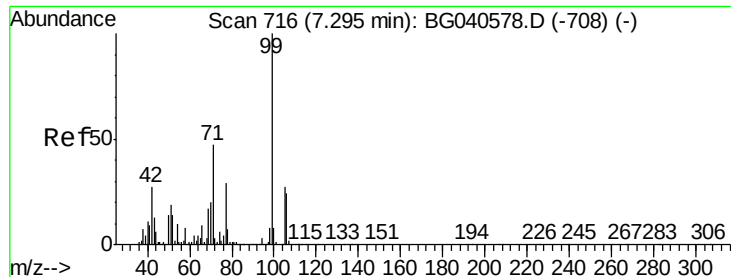


#5

2-Fluorophenol  
Concen: 129.817 ng  
RT: 5.67 min Scan# 440  
Delta R.T. -0.01 min  
Lab File: BG040766.D  
Acq: 7 May 2019 12:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 76.1  | 61.4  | 92.0  |
| 63      | 45.0  | 37.8  | 56.6  |





#7

Phenol-d6

Concen: 123.176 ng

RT: 7.28 min Scan# 714

Delta R.T. -0.01 min

Lab File: BG040766.D

Acq: 7 May 2019 12:47

Instrument :

BNA\_G

ClientSampleId :

PB119476BL

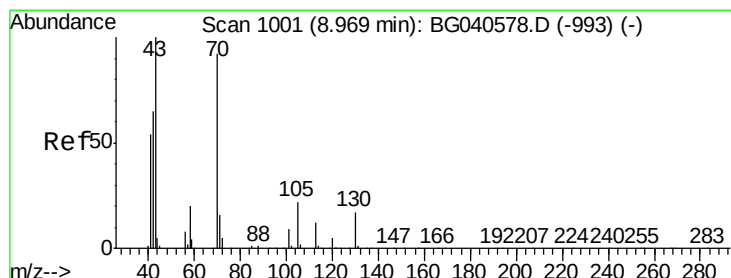
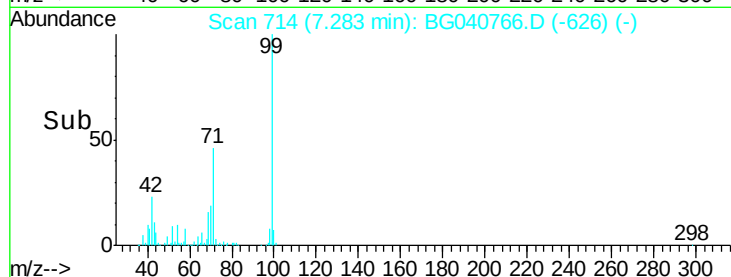
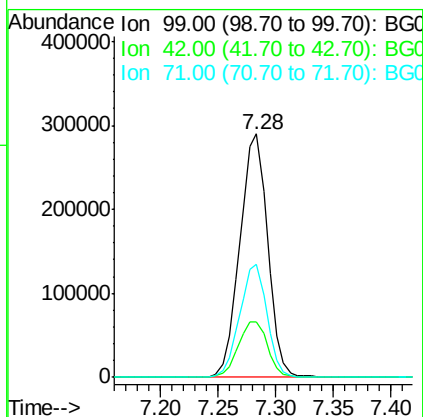
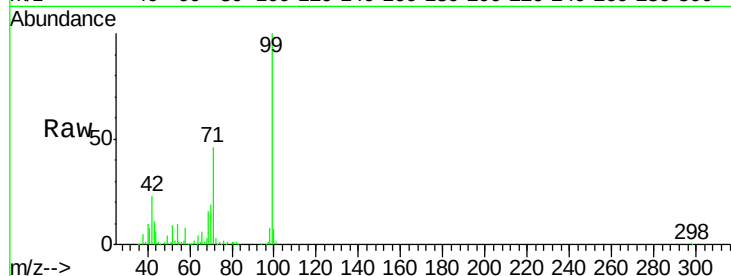
Tot Ion: 99 Resp: 486158

Ion Ratio Lower Upper

99 100

42 22.6 21.8 32.8

71 46.3 38.6 57.8



#19

n-Nitroso-di-n-propylamine

Concen: 13.754 ng

RT: 9.32 min Scan# 1061

Delta R.T. 0.35 min

Lab File: BG040766.D

Acq: 7 May 2019 12:47

Tgt Ion: 70 Resp: 48866

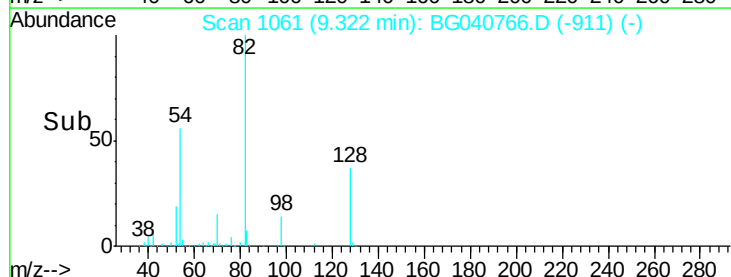
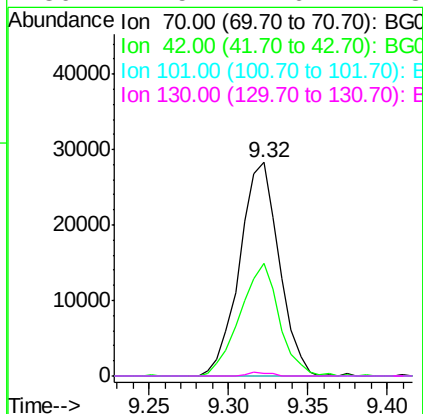
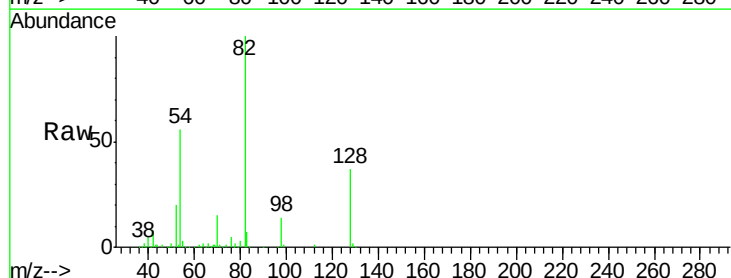
Ion Ratio Lower Upper

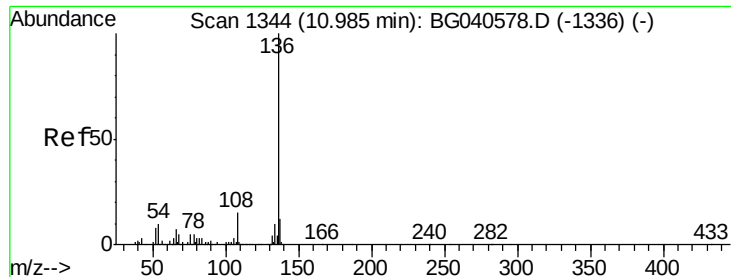
70 100

42 52.9 57.1 85.7#

101 0.0 7.8 11.8#

130 1.5 14.6 21.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.97 min Scan# 1341

Delta R.T. -0.02 min

Lab File: BG040766.D

Acq: 7 May 2019 12:47

Instrument :

BNA\_G

ClientSampleId :

PB119476BL

Tot Ion:136 Resp: 180996

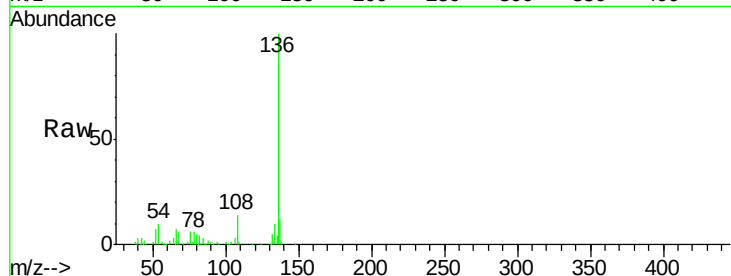
Ion Ratio Lower Upper

136 100

137 11.6 9.7 14.5

54 10.2 8.6 12.8

68 6.2 4.8 7.2

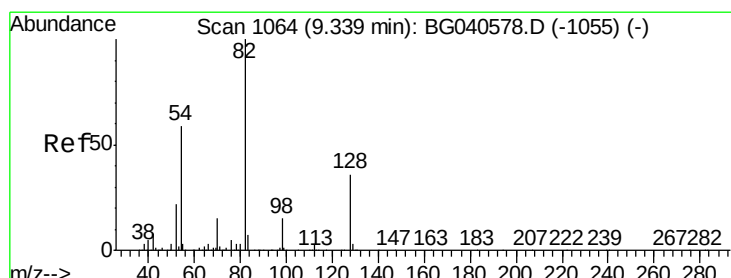
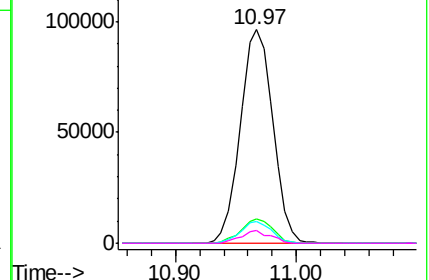
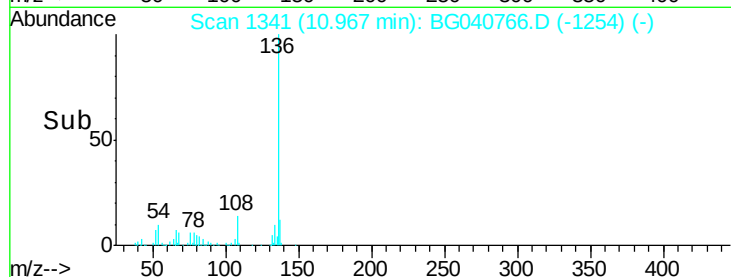


Abundance Ion 136.00 (135.70 to 136.70): E

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: 85.874 ng

RT: 9.32 min Scan# 1061

Delta R.T. -0.02 min

Lab File: BG040766.D

Acq: 7 May 2019 12:47

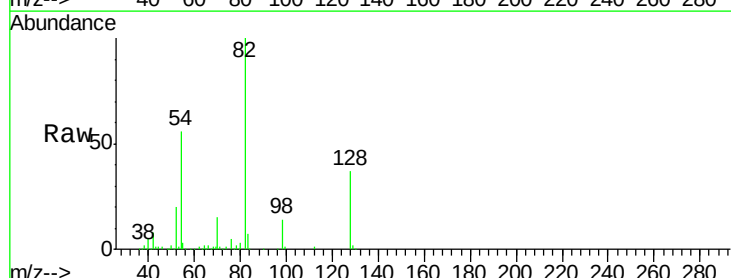
Tgt Ion: 82 Resp: 336380

Ion Ratio Lower Upper

82 100

128 37.5 28.9 43.3

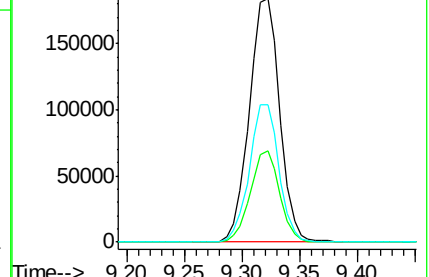
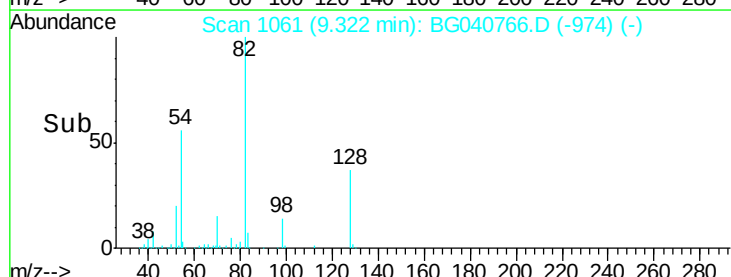
54 56.3 47.2 70.8

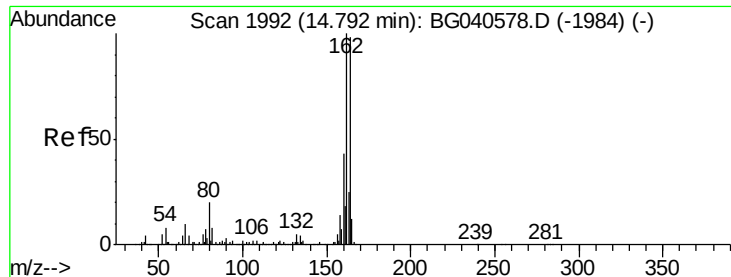


Abundance Ion 82.00 (81.70 to 82.70): BGC

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: 14.77 min Scan# 1988

Delta R.T. -0.02 min

Lab File: BG040766.D

Acq: 7 May 2019 12:47

Instrument :

BNA\_G

ClientSampleId :

PB119476BL

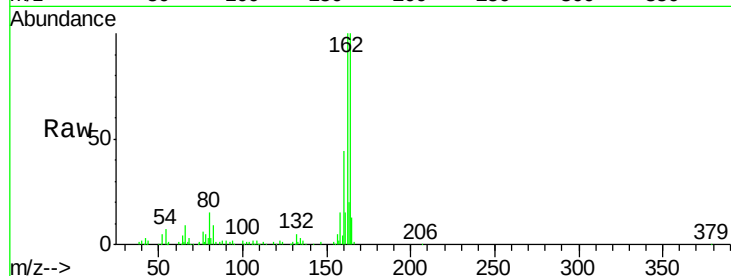
Tot Ion:164 Resp: 131545

Ion Ratio Lower Upper

164 100

162 100.1 81.9 122.9

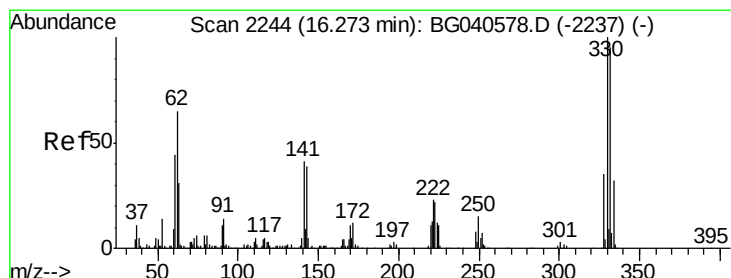
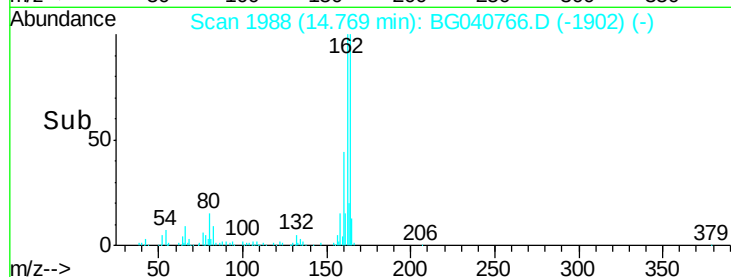
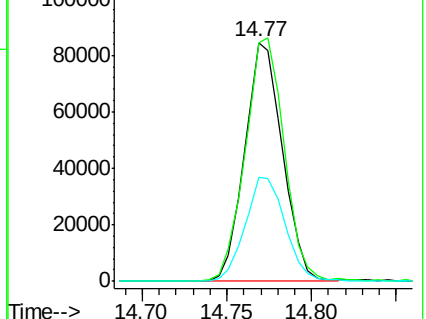
160 43.8 35.4 53.2



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: 130.847 ng

RT: 16.26 min Scan# 2241

Delta R.T. -0.02 min

Lab File: BG040766.D

Acq: 7 May 2019 12:47

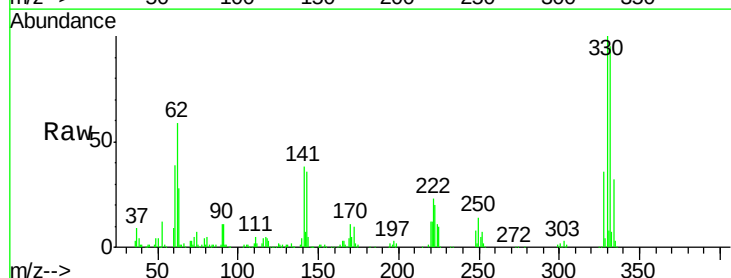
Tgt Ion:330 Resp: 236587

Ion Ratio Lower Upper

330 100

332 97.0 75.9 113.9

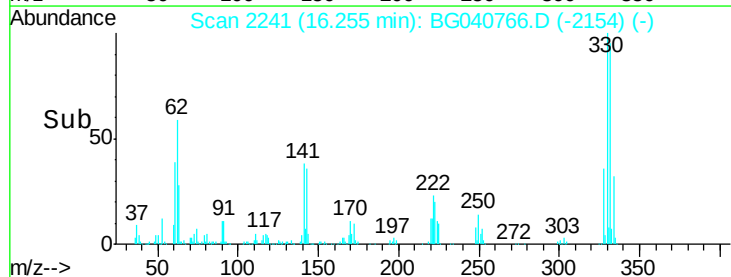
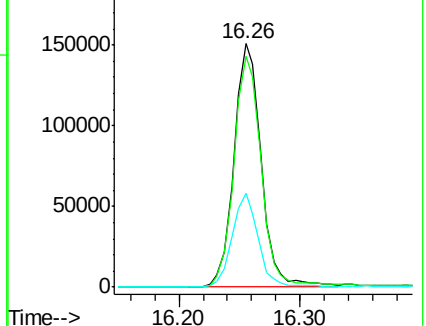
141 37.2 32.4 48.6

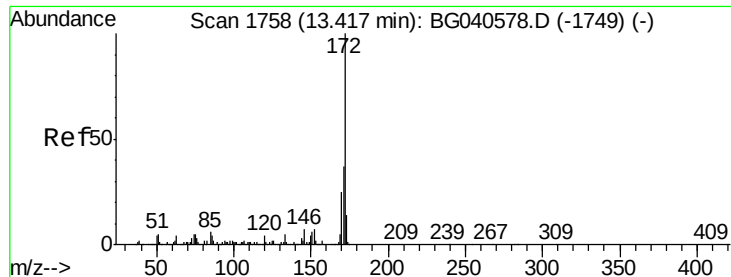


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

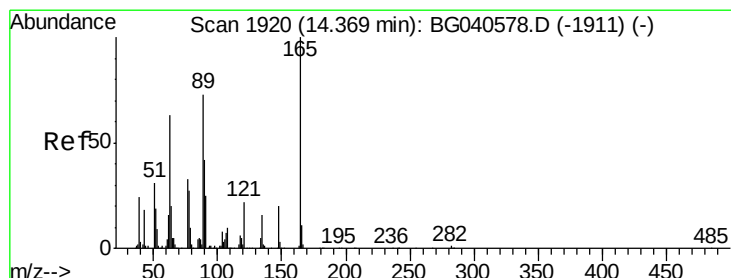
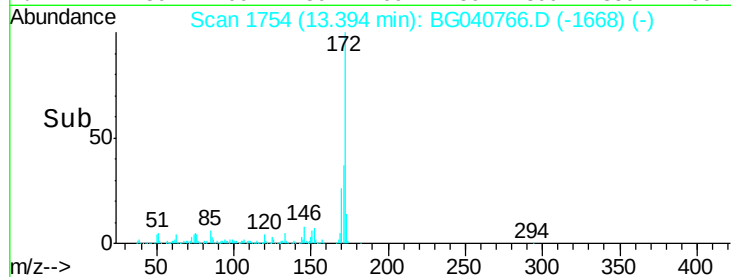
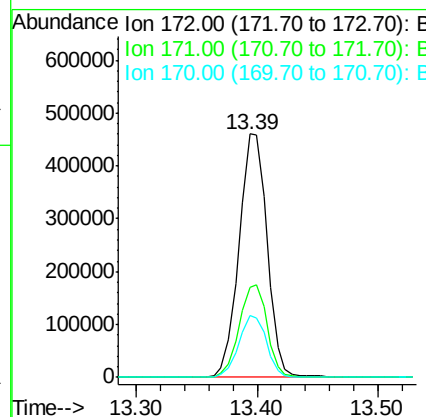
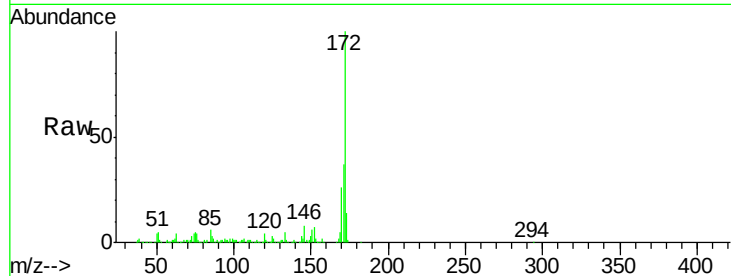




#45  
 2-Fluorobiphenyl  
 Concen: 82.299 ng  
 RT: 13.39 min Scan# 1754  
 Delta R.T. -0.02 min  
 Lab File: BG040766.D  
 Acq: 7 May 2019 12:47

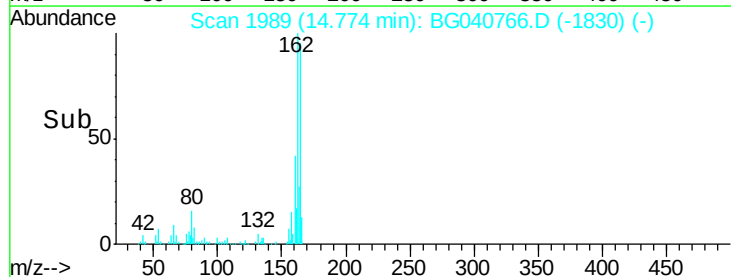
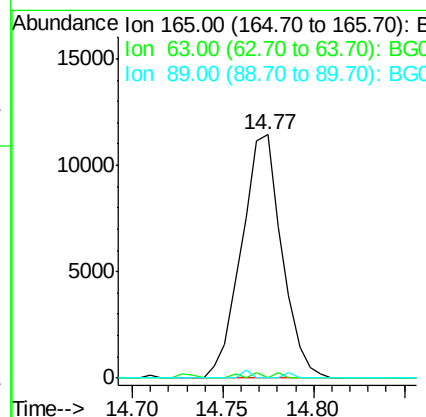
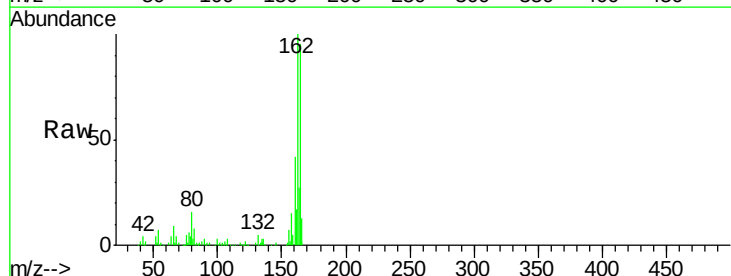
Instrument :  
 BNA\_G  
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 PB119476BL

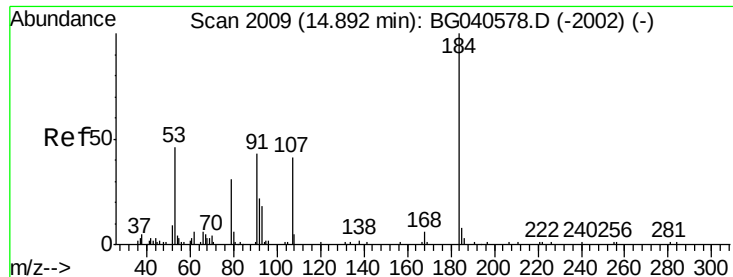
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.0  | 29.4  | 44.2  |
| 170     | 25.6  | 19.9  | 29.9  |



#51  
 2,6-Dinitrotoluene  
 Concen: 8.233 ng  
 RT: 14.77 min Scan# 1989  
 Delta R.T. 0.41 min  
 Lab File: BG040766.D  
 Acq: 7 May 2019 12:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 61.0  | 91.4# |
| 89      | 0.0   | 58.6  | 87.8# |

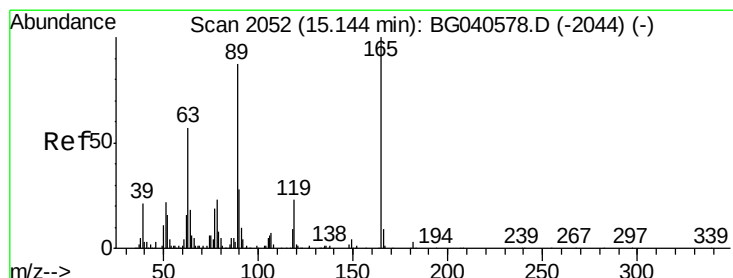
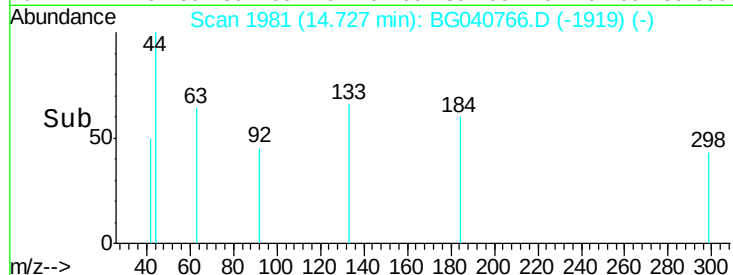
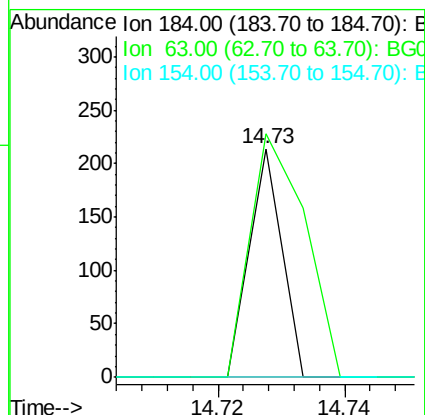
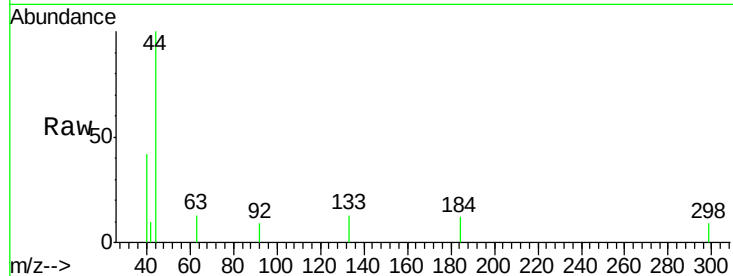




#54  
2,4-Dinitrophenol  
Concen: 7.071 ng  
RT: 14.73 min Scan# 1981  
Delta R.T. -0.16 min  
Lab File: BG040766.D  
Acq: 7 May 2019 12:47

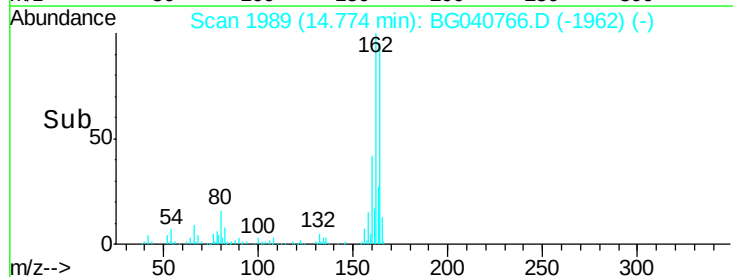
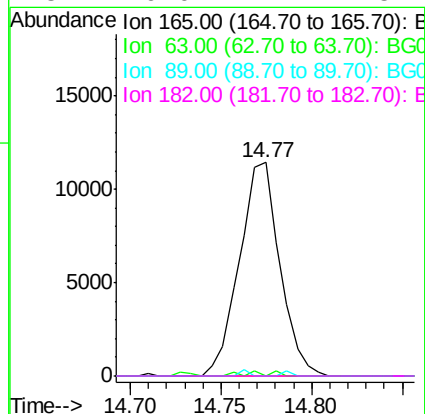
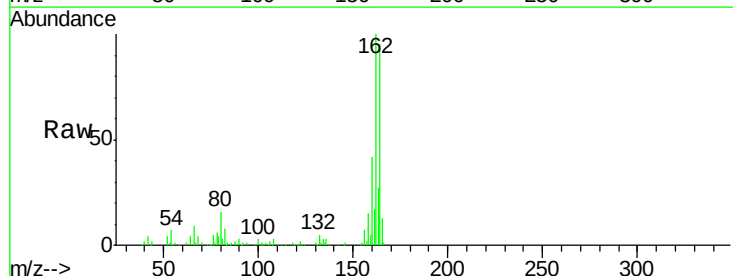
Instrument :  
BNA\_G  
ClientSampleId :  
PB119476BL

Tot Ion:184 Resp: 75  
Ion Ratio Lower Upper  
184 100  
63 106.5 51.8 77.6#  
154 0.0 43.6 65.4#

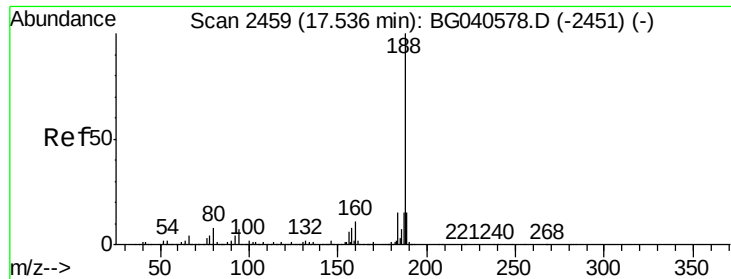


#57  
2,4-Dinitrotoluene  
Concen: 6.059 ng  
RT: 14.77 min Scan# 1989  
Delta R.T. -0.37 min  
Lab File: BG040766.D  
Acq: 7 May 2019 12:47

Tgt Ion:165 Resp: 17684  
Ion Ratio Lower Upper  
165 100  
63 0.0 45.8 68.8#  
89 0.0 69.4 104.2#  
182 0.0 2.2 3.4#







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.51 min Scan# 2455

Delta R.T. -0.02 min

Lab File: BG040766.D

Acq: 7 May 2019 12:47

Instrument :

BNA\_G

ClientSampleId :

PB119476BL

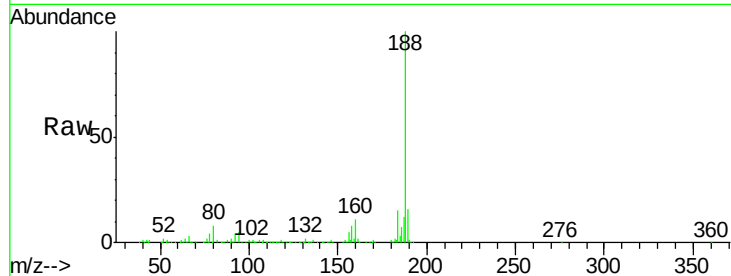
Tot Ion:188 Resp: 369214

Ion Ratio Lower Upper

188 100

94 5.2 5.6 8.4#

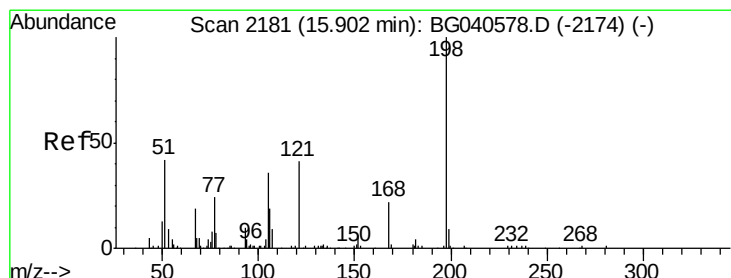
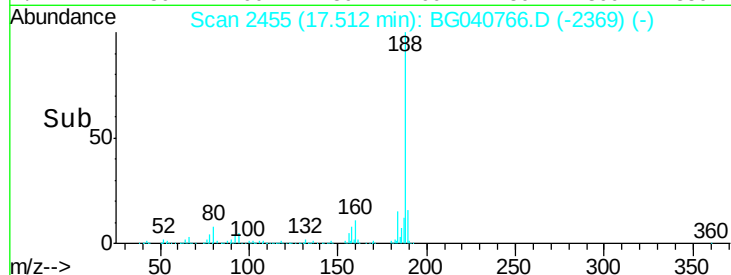
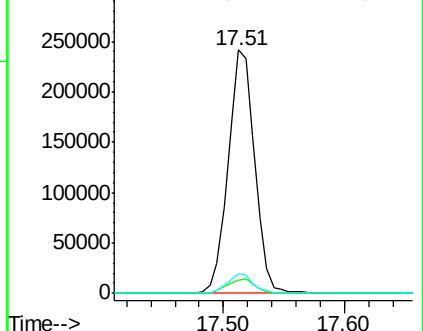
80 8.0 6.4 9.6



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



#65

4,6-Dinitro-2-methylphenol

Concen: 7.424 ng

RT: 16.26 min Scan# 2241

Delta R.T. 0.35 min

Lab File: BG040766.D

Acq: 7 May 2019 12:47

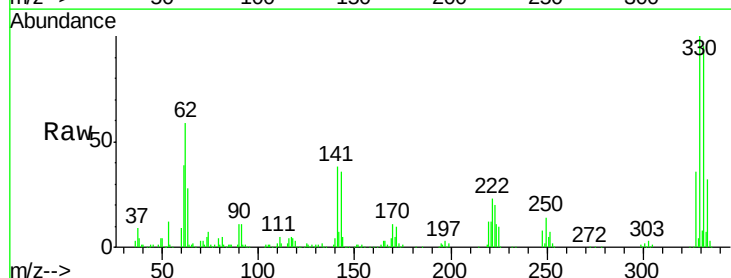
Tgt Ion:198 Resp: 689

Ion Ratio Lower Upper

198 100

51 16.8 35.9 75.9#

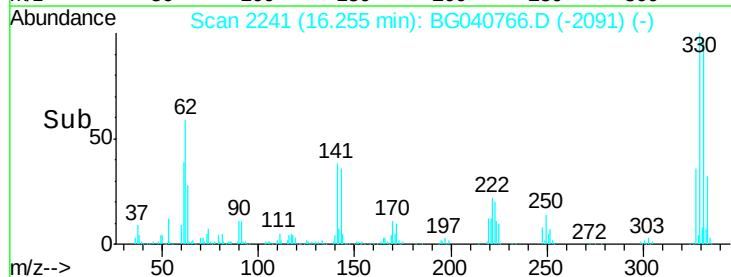
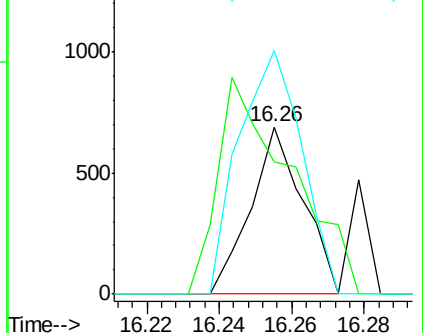
105 31.0 21.2 61.2

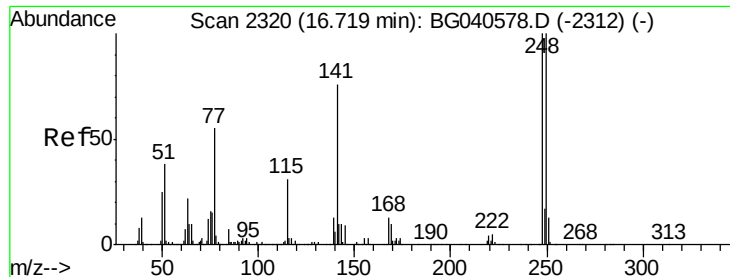


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

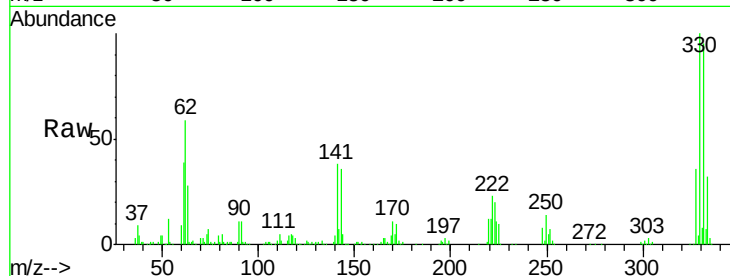




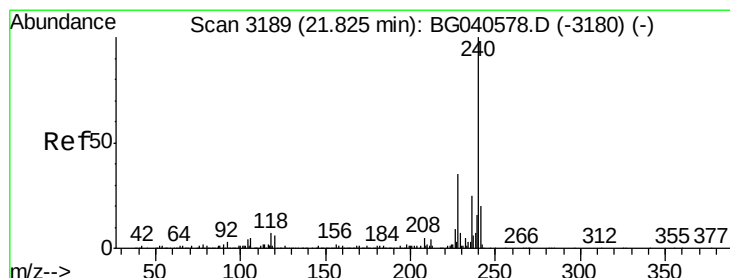
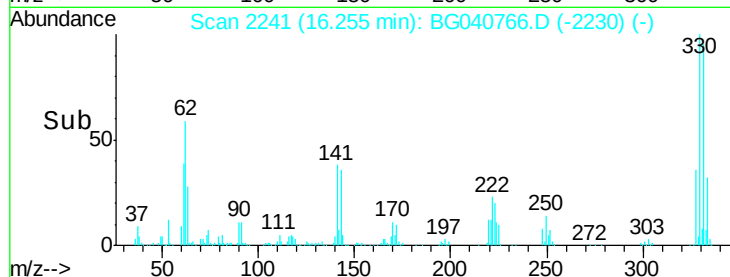
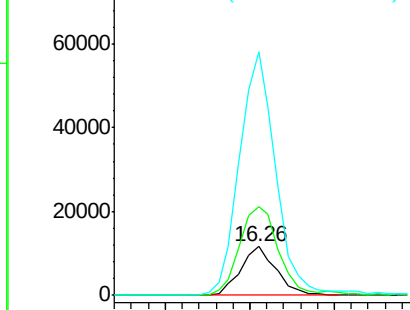
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.679 ng  
 RT: 16.26 min Scan# 2241  
 Delta R.T. -0.46 min  
 Lab File: BG040766.D  
 Acq: 7 May 2019 12:47

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB119476BL

Tot Ion:248 Resp: 16924  
 Ion Ratio Lower Upper  
 248 100  
 250 183.6 79.8 119.6#  
 141 500.8 60.8 91.2#

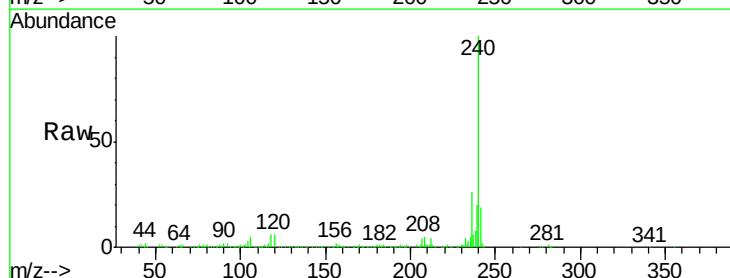


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

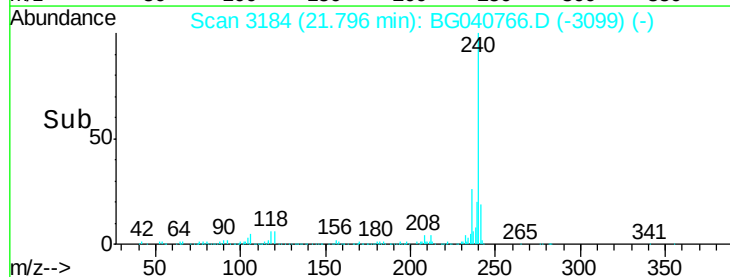
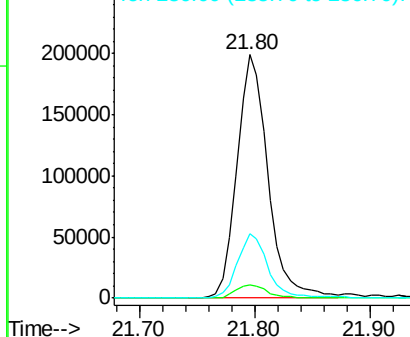


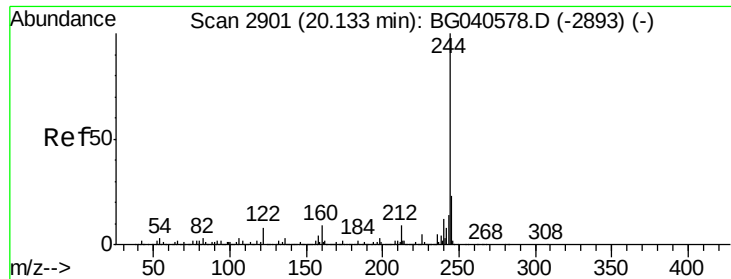
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.80 min Scan# 3184  
 Delta R.T. -0.03 min  
 Lab File: BG040766.D  
 Acq: 7 May 2019 12:47

Tgt Ion:240 Resp: 370746  
 Ion Ratio Lower Upper  
 240 100  
 120 5.6 5.0 7.6  
 236 26.2 20.3 30.5



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

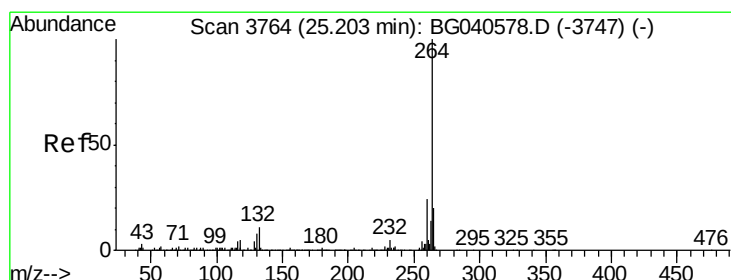
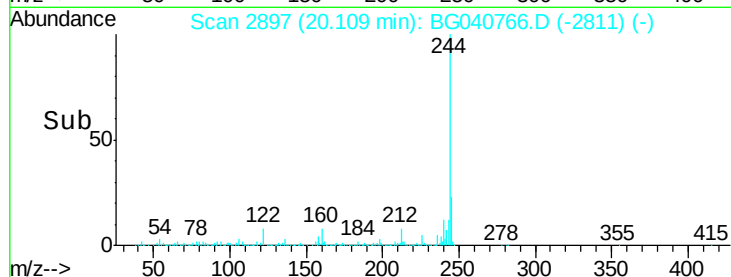
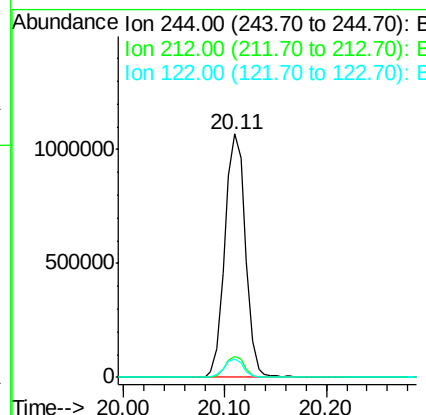
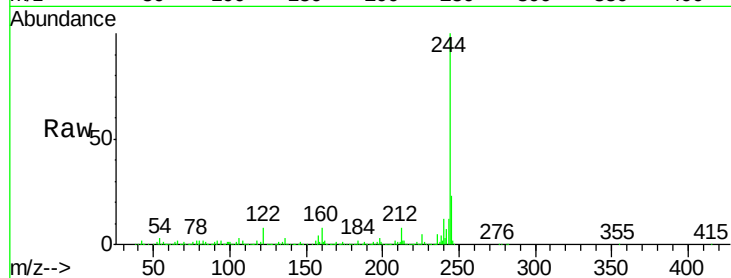




#79  
 Terphenyl-d14  
 Concen: 90.436 ng  
 RT: 20.11 min Scan# 2897  
 Delta R.T. -0.02 min  
 Lab File: BG040766.D  
 Acq: 7 May 2019 12:47

Instrument :  
 BNA\_G  
 ClientSampled :  
 PB119476BL

Tot Ion:244 Resp: 1513423  
 Ion Ratio Lower Upper  
 244 100  
 212 8.5 7.2 10.8  
 122 7.7 6.6 10.0



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 25.16 min Scan# 3757  
 Delta R.T. -0.04 min  
 Lab File: BG040766.D  
 Acq: 7 May 2019 12:47

Tgt Ion:264 Resp: 294842  
 Ion Ratio Lower Upper  
 264 100  
 260 22.9 19.2 28.8  
 265 21.8 16.6 25.0

