

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG083119\  
 Data File : BG042625.D  
 Acq On : 31 Aug 2019 8:48  
 Operator : HP/JU  
 Sample : PB122687BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 31 13:25:33 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 22 14:29:15 2019  
 Response via : Initial Calibration

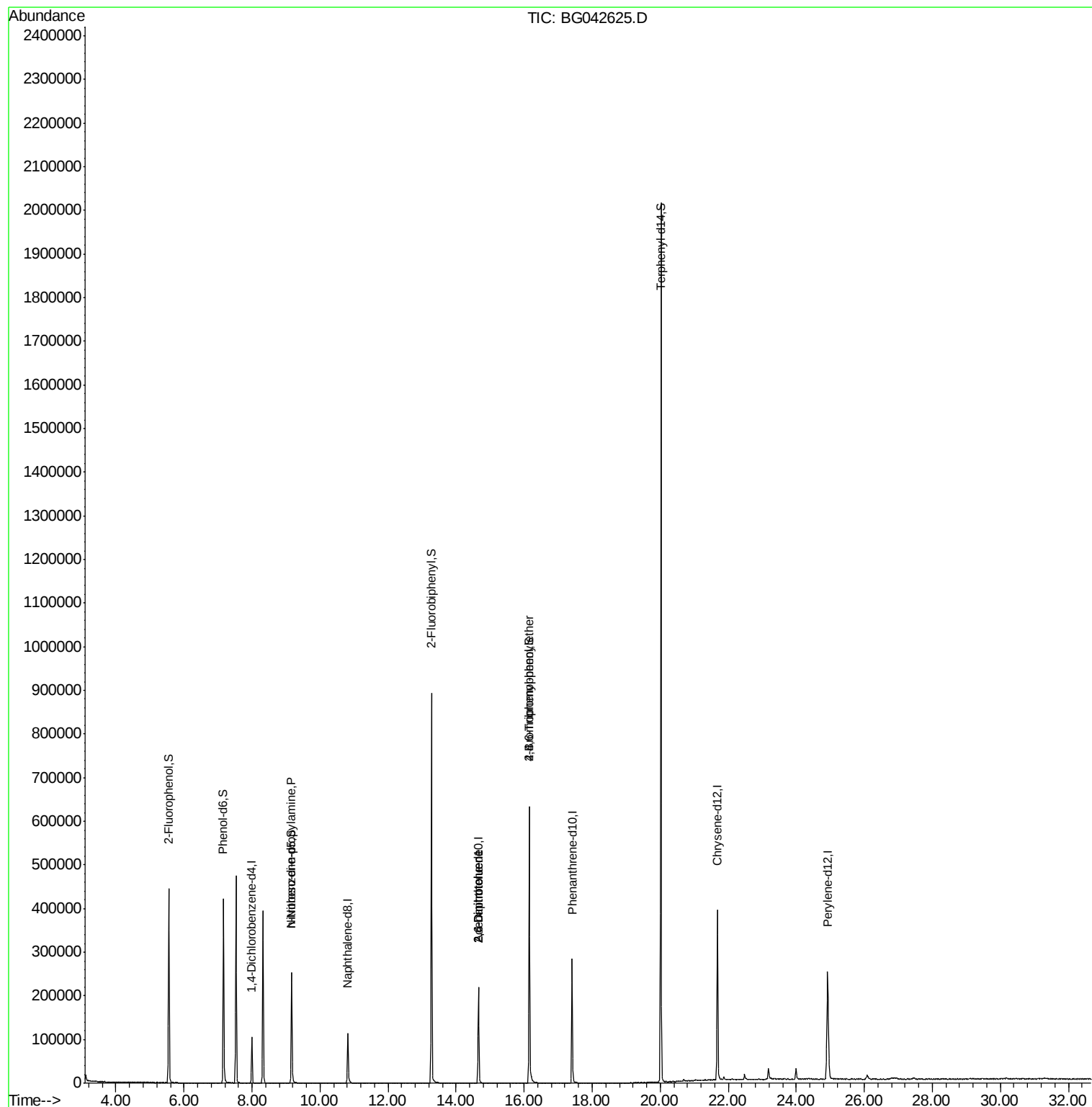
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.99  | 152  | 35107    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.81 | 136  | 132250   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 14.66 | 164  | 97619    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.41 | 188  | 228415   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 21.68 | 240  | 269433   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 24.92 | 264  | 312229   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.56  | 112  | 223673   | 129.03 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.16  | 99   | 287480   | 122.78 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.16  | 82   | 164013   | 85.70  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.15 | 330  | 178818   | 128.88 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.28 | 172  | 550885   | 95.44  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.02 | 244  | 1100105  | 88.27  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70   | 21333    | 14.063 | ng    | # 77     |
| 51) 2,6-Dinitrotoluene         | 14.66 | 165  | 12084    | 7.402  | ng    | # 36     |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 12084    | 5.169  | ng    | # 38     |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248  | 11581    | 3.997  | ng    | # 1      |

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

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Sample : PB122687BL  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Aug 31 13:25:33 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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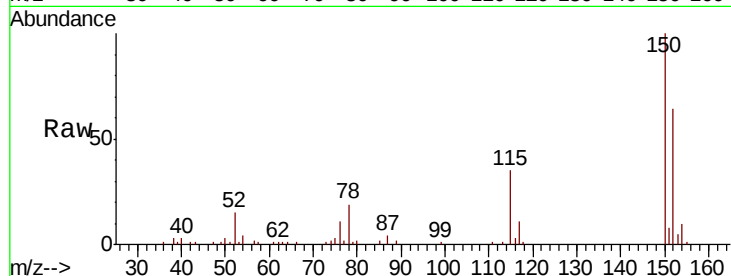


#1

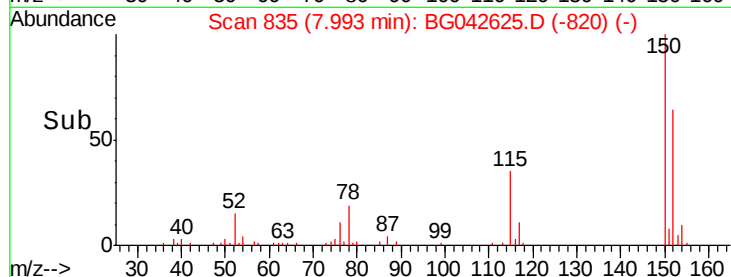
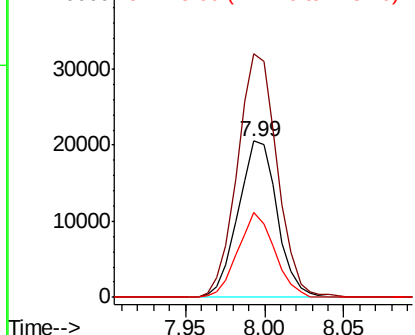
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.99 min Scan# 835  
Delta R.T. -0.01 min  
Lab File: BG042625.D  
Acq: 31 Aug 2019 8:48

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 35107  
Ion Ratio Lower Upper  
152 100  
150 155.7 125.4 188.0  
115 54.1 38.5 57.7



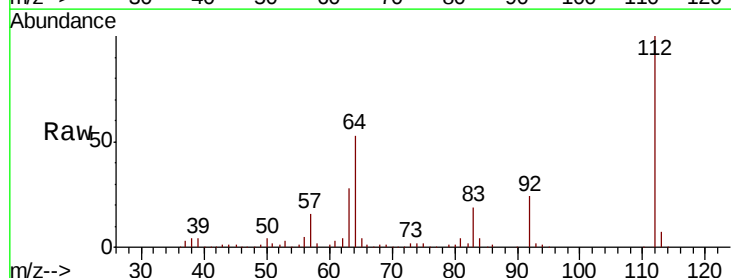
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



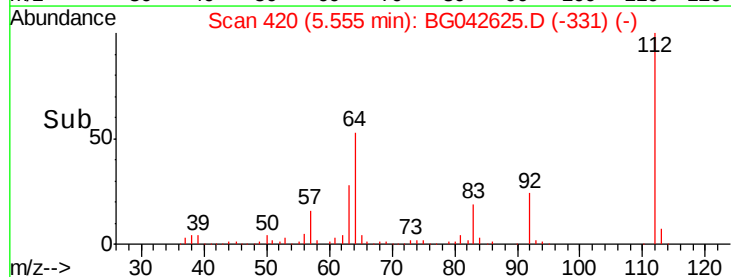
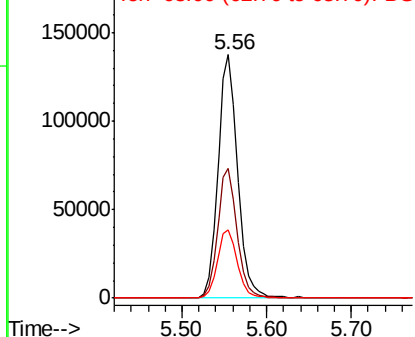
#5

2-Fluorophenol  
Concen: 129.035 ng  
RT: 5.56 min Scan# 420  
Delta R.T. -0.01 min  
Lab File: BG042625.D  
Acq: 31 Aug 2019 8:48

Tgt Ion:112 Resp: 223673  
Ion Ratio Lower Upper  
112 100  
64 53.4 42.8 64.2  
63 27.8 22.7 34.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 122.777 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042625.D

Acq: 31 Aug 2019 8:48

Instrument :

BNA\_G

ClientSampleId :

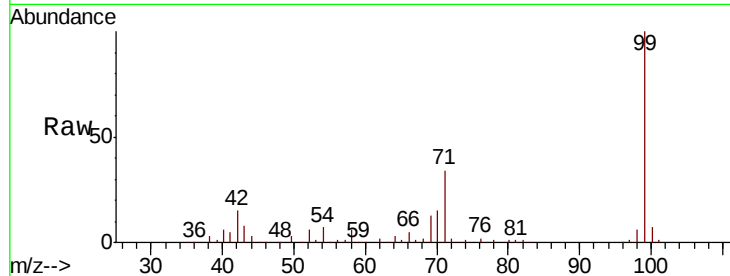
Tot Ion: 99 Resp: 287480

Ion Ratio Lower Upper

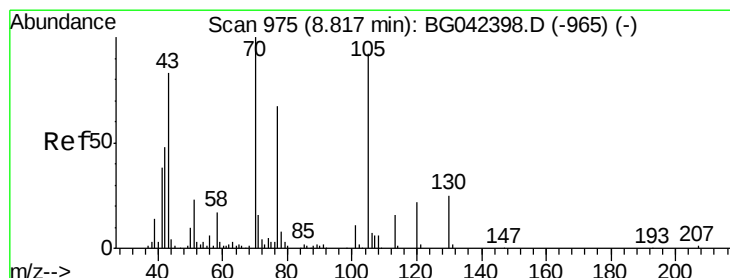
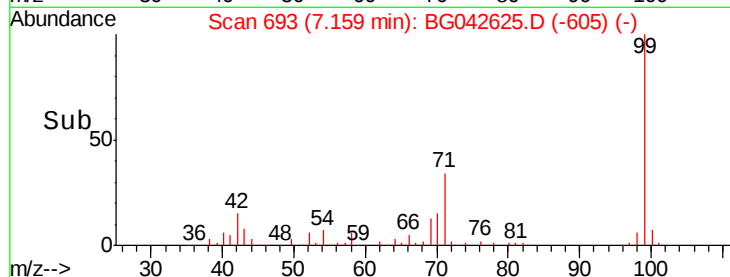
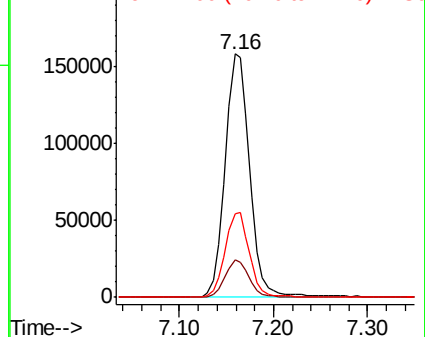
99 100

42 15.4 12.0 18.0

71 34.2 26.3 39.5



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: 14.063 ng

RT: 9.16 min Scan# 1034

Delta R.T. 0.35 min

Lab File: BG042625.D

Acq: 31 Aug 2019 8:48

Tgt Ion: 70 Resp: 21333

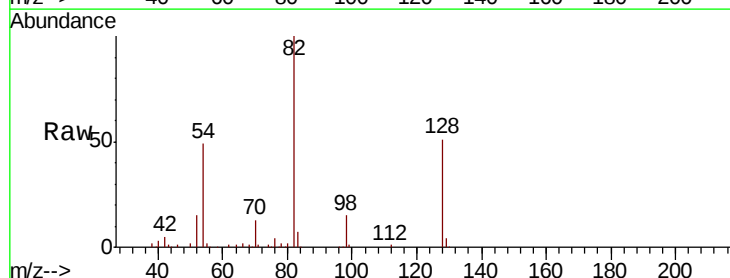
Ion Ratio Lower Upper

70 100

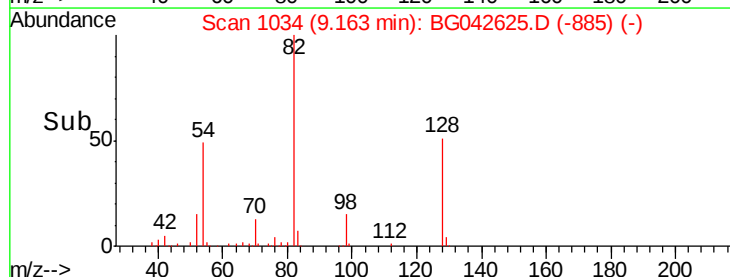
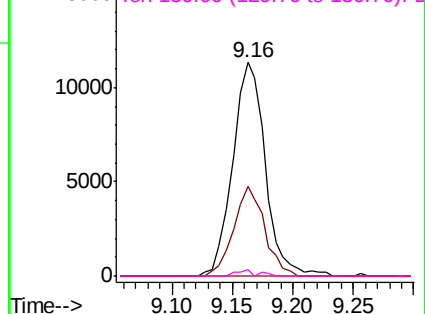
42 41.8 38.8 58.2

101 0.0 9.0 13.6#

130 2.7 20.0 30.0#



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: 10.81 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BG042625.D

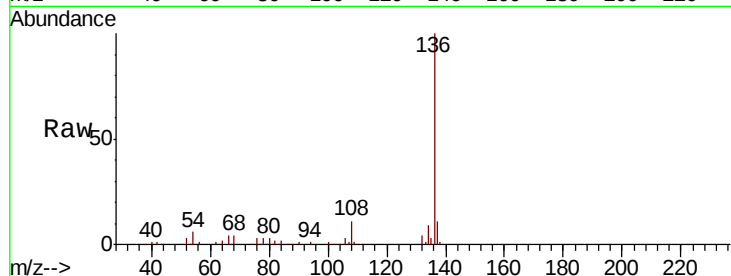
Acq: 31 Aug 2019 8:48

Instrument :

BNA\_G

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 132250 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.7   | 13.1   |
| 54       | 6.0   | 4.9   | 7.3    |
| 68       | 3.6   | 3.6   | 5.4    |



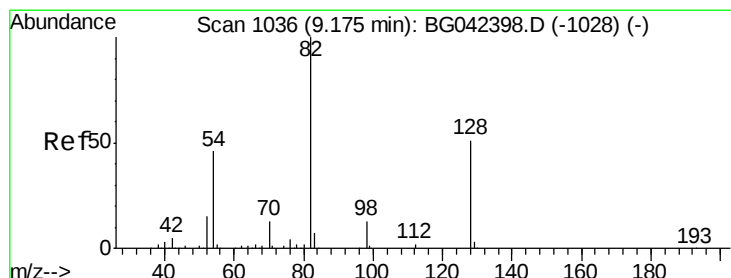
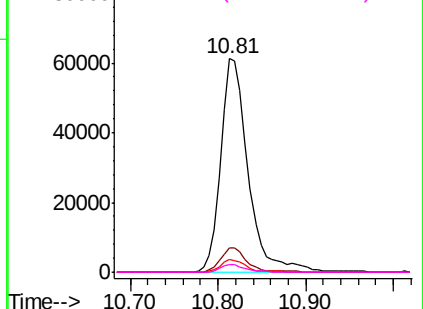
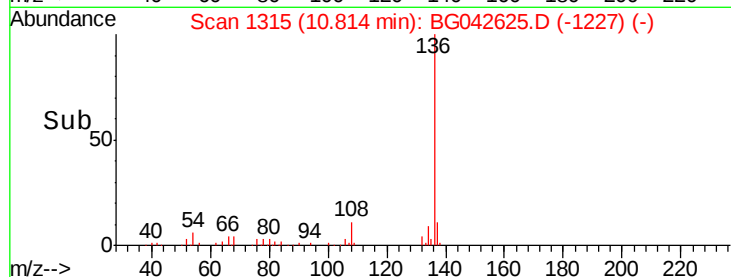
Abundance

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: 85.701 ng

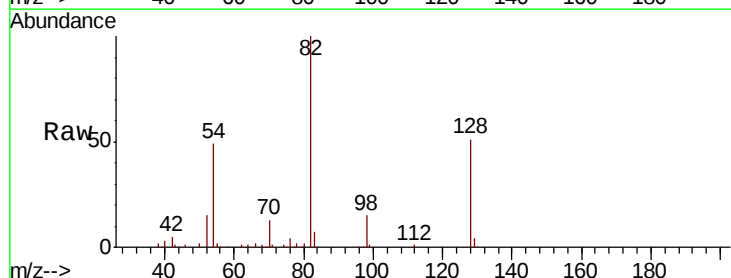
RT: 9.16 min Scan# 1034

Delta R.T. -0.01 min

Lab File: BG042625.D

Acq: 31 Aug 2019 8:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 164013 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 50.8  | 40.7  | 61.1   |
| 54       | 49.3  | 36.3  | 54.5   |

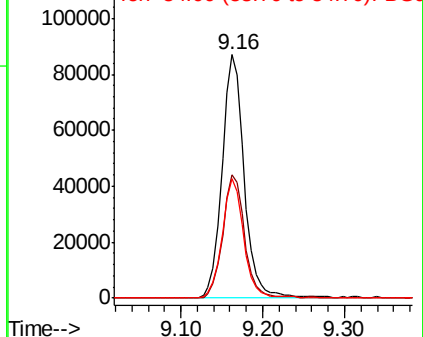
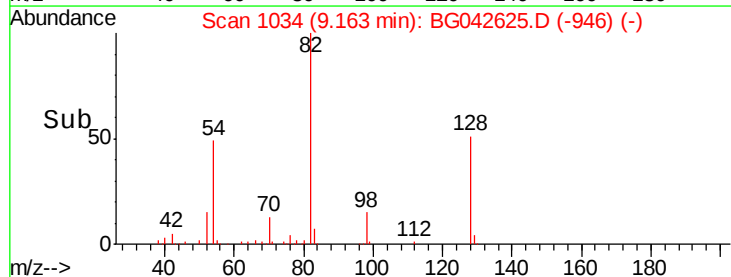


Abundance

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: 14.66 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BG042625.D

Acq: 31 Aug 2019 8:48

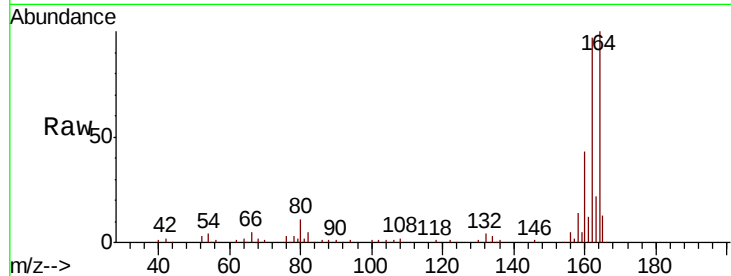
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:164 Resp: 97619

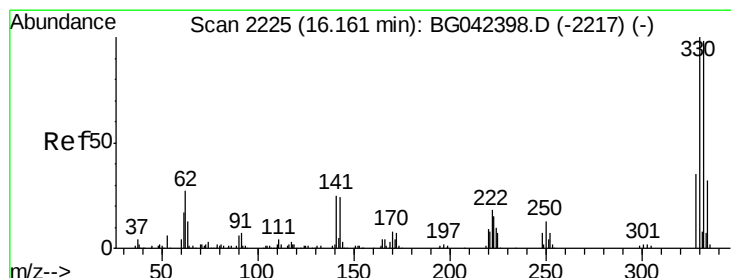
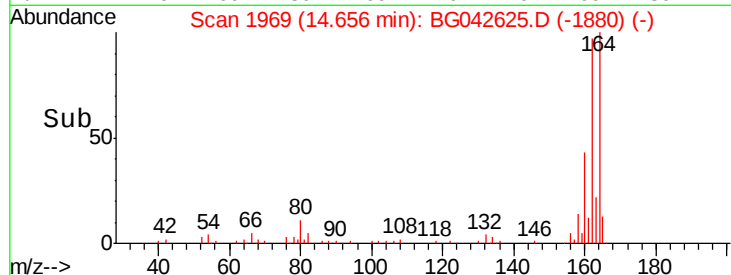
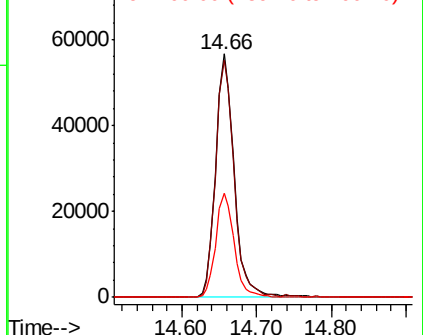
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 97.2  | 79.9  | 119.9 |
| 160 | 42.9  | 34.3  | 51.5  |



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: 128.878 ng

RT: 16.15 min Scan# 2223

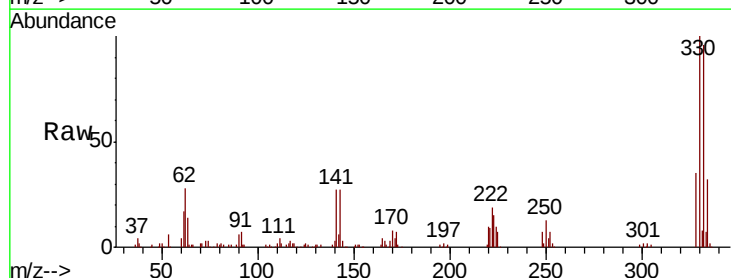
Delta R.T. -0.01 min

Lab File: BG042625.D

Acq: 31 Aug 2019 8:48

Tgt Ion:330 Resp: 178818

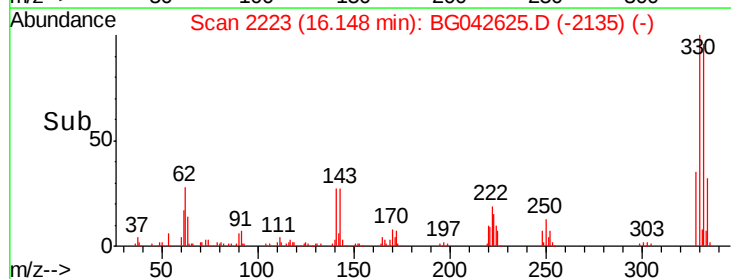
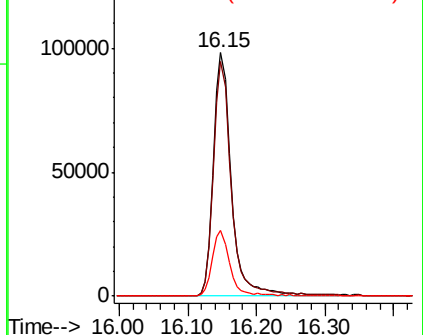
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 95.3  | 77.4  | 116.0 |
| 141 | 26.9  | 21.4  | 32.0  |



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

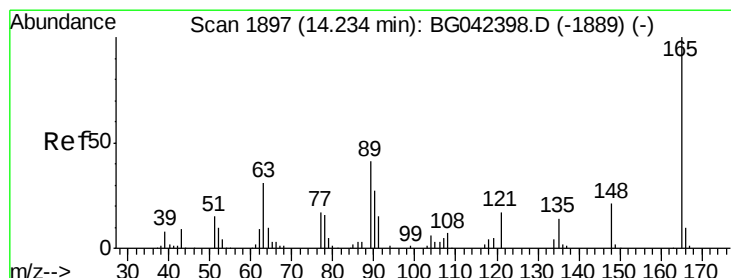
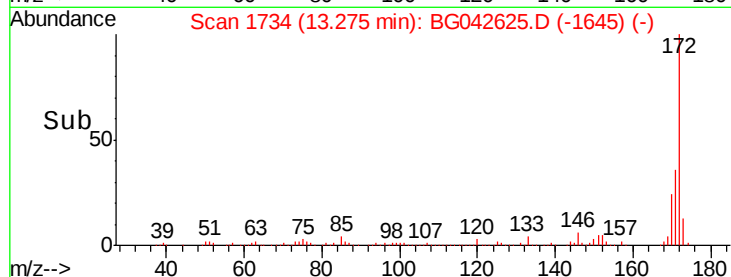
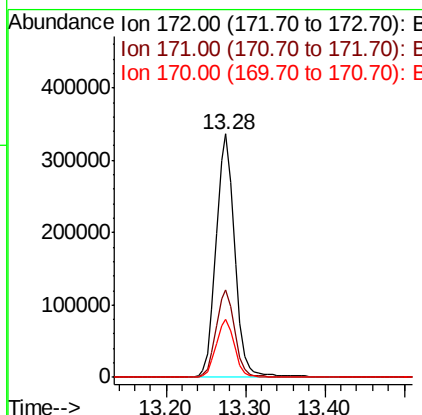
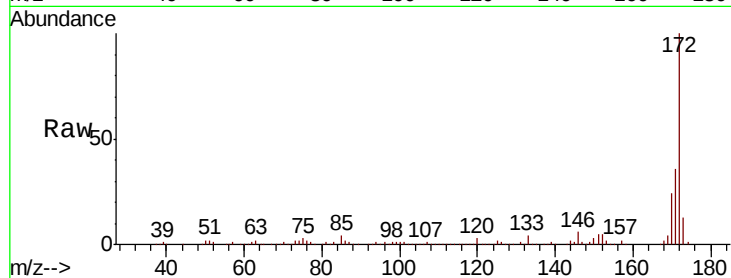




#45  
 2-Fluorobiphenyl  
 Concen: 95.443 ng  
 RT: 13.28 min Scan# 1734  
 Delta R.T. -0.01 min  
 Lab File: BG042625.D  
 Acq: 31 Aug 2019 8:48

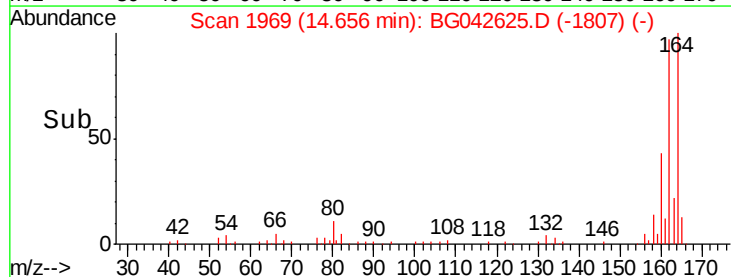
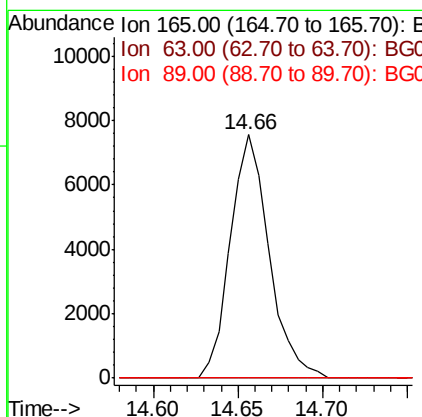
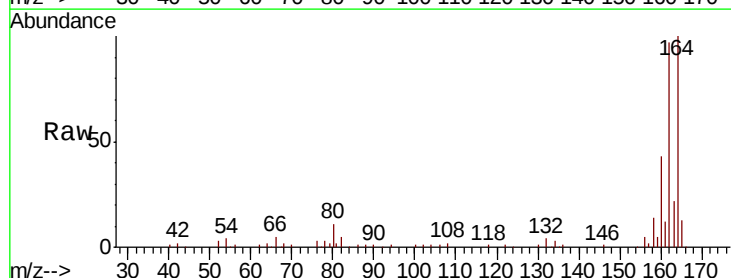
Instrument :  
 BNA\_G  
 ClientSampled :

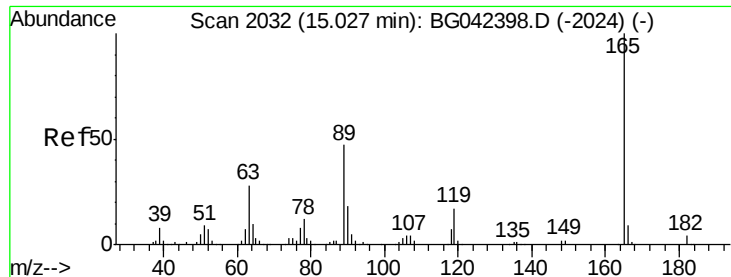
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 30.5  | 45.7  |
| 170     | 23.8  | 20.2  | 30.2  |



#51  
 2,6-Dinitrotoluene  
 Concen: 7.402 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. 0.42 min  
 Lab File: BG042625.D  
 Acq: 31 Aug 2019 8:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 30.6  | 45.8# |
| 89      | 0.0   | 32.6  | 49.0# |

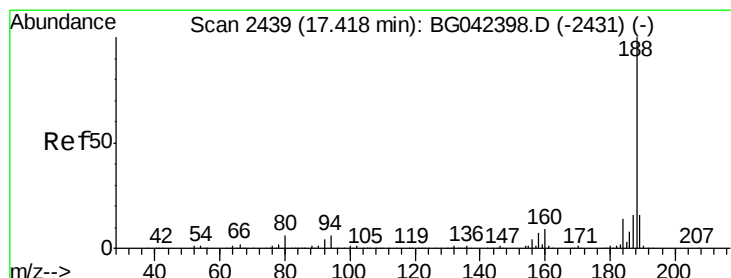
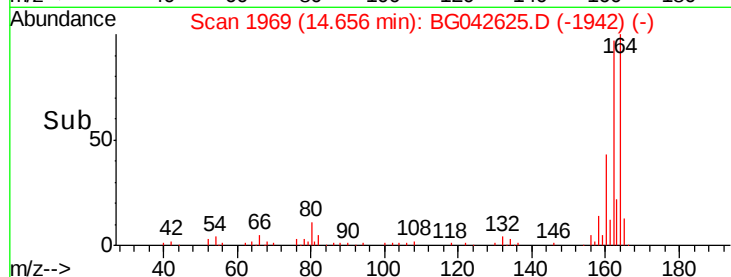
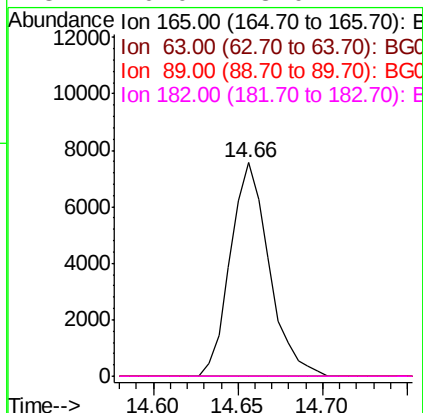
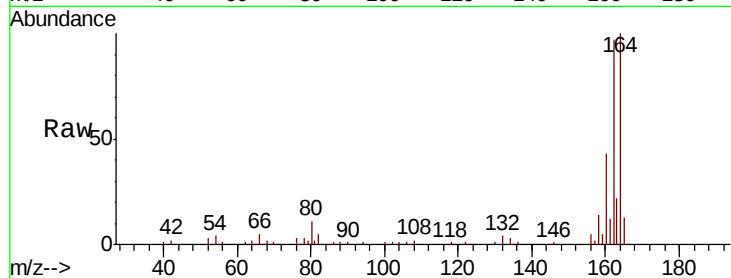




#57  
 2,4-Dinitrotoluene  
 Concen: 5.169 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. -0.37 min  
 Lab File: BG042625.D  
 Acq: 31 Aug 2019 8:48

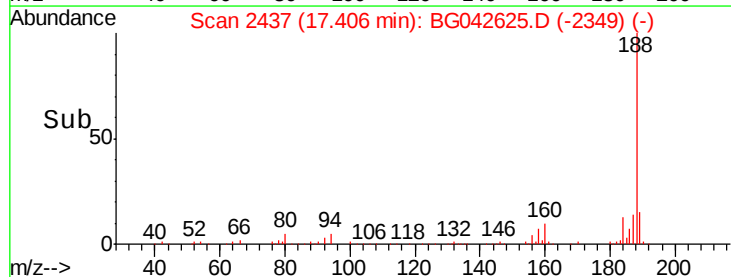
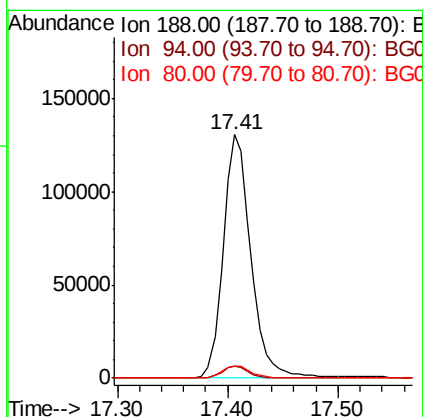
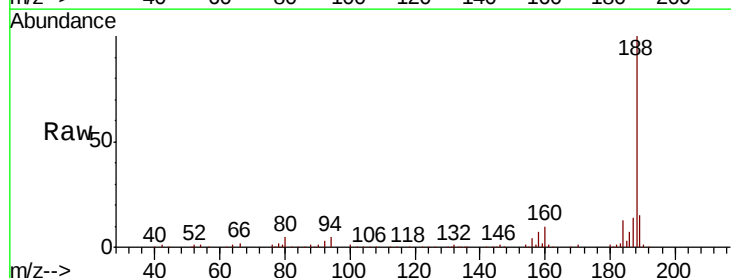
Instrument :  
 BNA\_G  
 ClientSampleId :

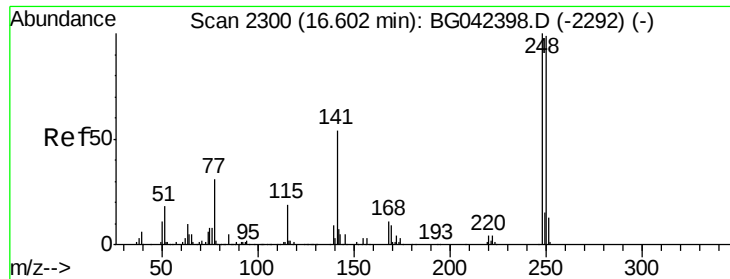
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 22.5  | 33.7# |
| 89      | 0.0   | 37.8  | 56.6# |
| 182     | 0.0   | 3.0   | 4.4#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.41 min Scan# 2437  
 Delta R.T. -0.01 min  
 Lab File: BG042625.D  
 Acq: 31 Aug 2019 8:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.1   | 4.5   | 6.7   |
| 80      | 4.9   | 4.9   | 7.3#  |

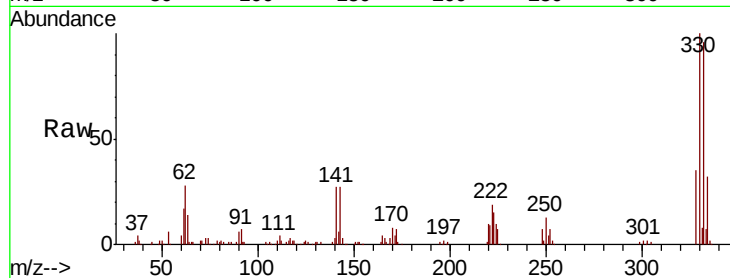




#67  
4-Bromophenyl-phenylether  
Concen: 3.997 ng  
RT: 16.15 min Scan# 2223  
Delta R.T. -0.45 min  
Lab File: BG042625.D  
Acq: 31 Aug 2019 8:48

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 200.7 | 78.9  | 118.3# |
| 141     | 404.3 | 43.3  | 64.9#  |

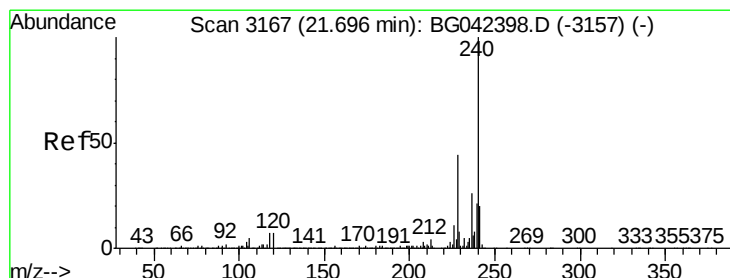
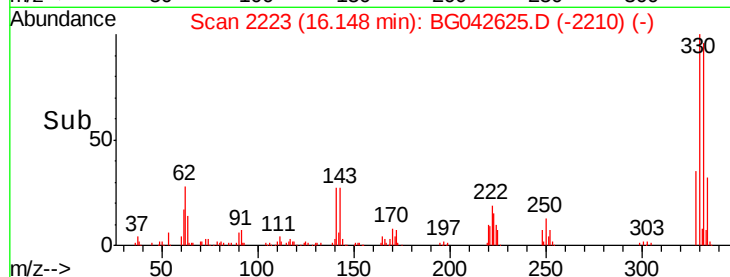
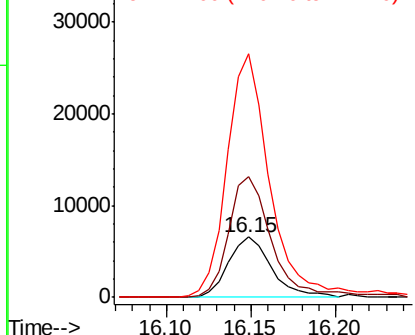


Abundance

Ion 248.00 (247.70 to 248.70): E

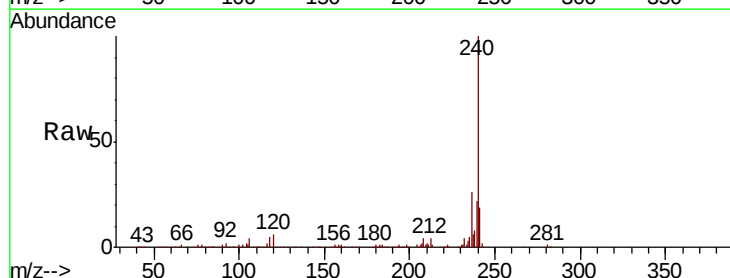
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.68 min Scan# 3165  
Delta R.T. -0.01 min  
Lab File: BG042625.D  
Acq: 31 Aug 2019 8:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 6.4   | 5.7   | 8.5   |
| 236     | 25.8  | 21.0  | 31.4  |

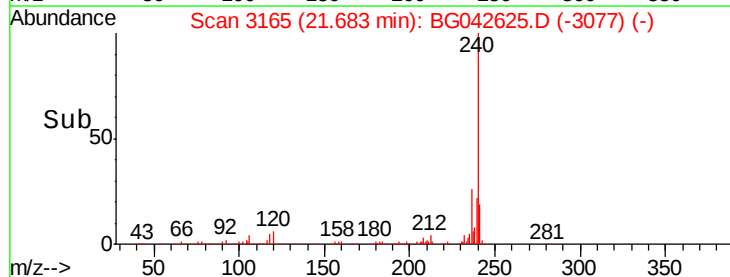
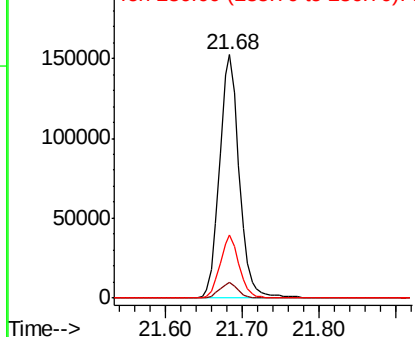


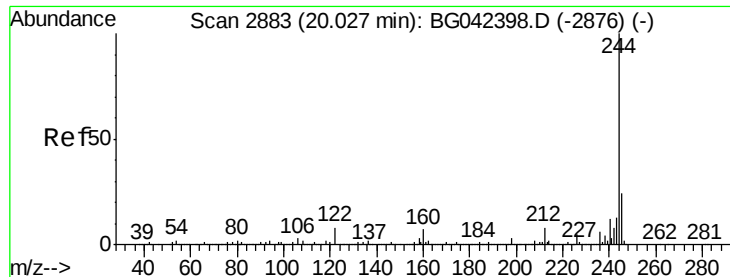
Abundance

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: 88.272 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.01 min

Lab File: BG042625.D

Acq: 31 Aug 2019 8:48

Instrument :

BNA\_G

ClientSampled :

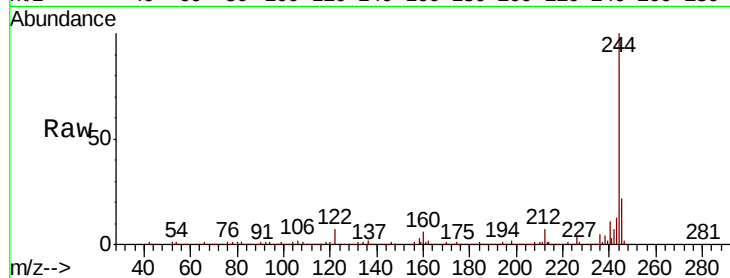
Tot Ion:244 Resp: 1100105

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

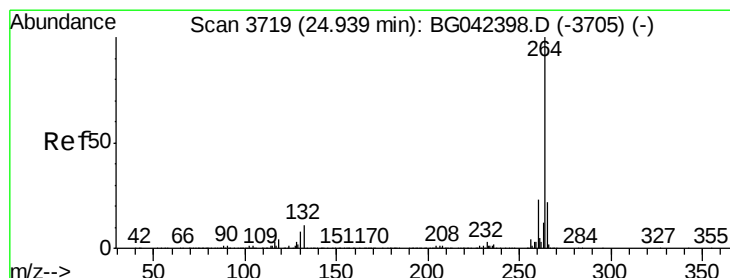
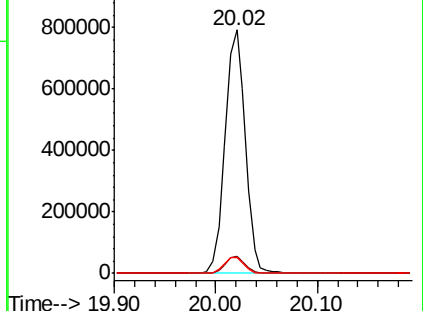
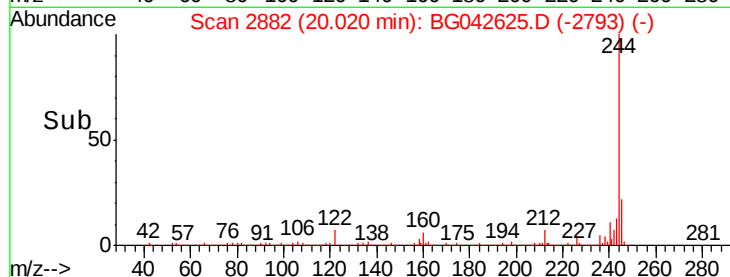
122 6.5 6.7 10.1#



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: 24.92 min Scan# 3716

Delta R.T. -0.02 min

Lab File: BG042625.D

Acq: 31 Aug 2019 8:48

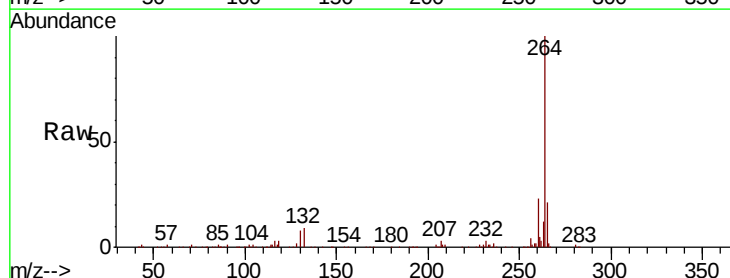
Tgt Ion:264 Resp: 312229

Ion Ratio Lower Upper

264 100

260 22.8 18.5 27.7

265 21.3 17.6 26.4



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

