

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG103119\  
 Data File : BG043439.D  
 Acq On : 31 Oct 2019 18:24  
 Operator : JU  
 Sample : K5587-15  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Nov 01 04:00:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 21 16:37:43 2019  
 Response via : Initial Calibration

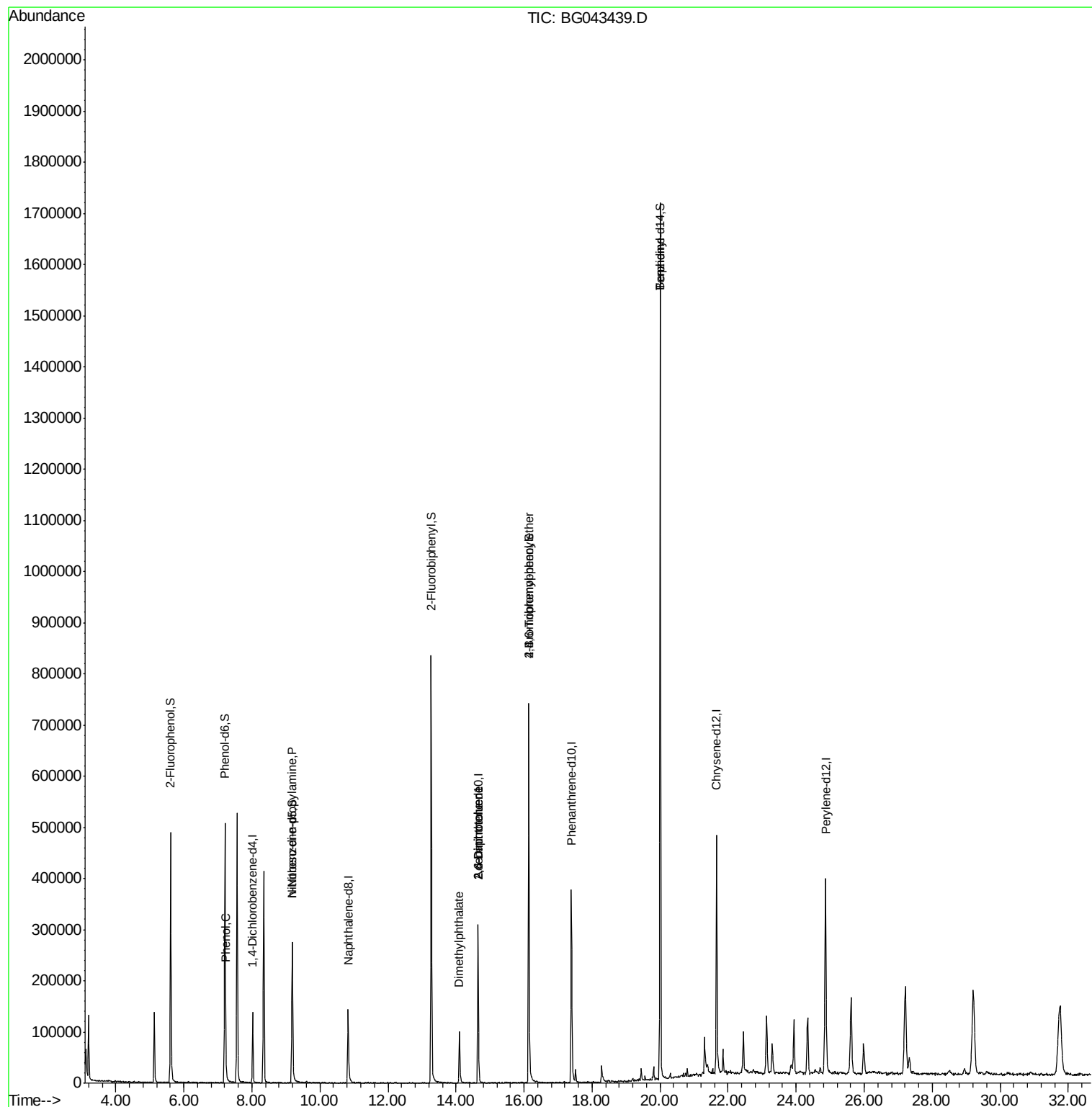
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.02  | 152  | 42014    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.83 | 136  | 152257   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.65 | 164  | 117856   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.39 | 188  | 279244   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 21.66 | 240  | 305125   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.86 | 264  | 361393   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 235784   | 102.84 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 328459   | 99.57  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.18  | 82   | 198288   | 67.14  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.14 | 330  | 194277   | 86.62  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.27 | 172  | 512986   | 60.15  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.00 | 244  | 960767   | 59.07  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.23  | 94   | 11156    | 3.701  | ng    | 77       |
| 19) n-Nitroso-di-n-propylamine | 9.18  | 70   | 27139    | 12.732 | ng    | # 73     |
| 50) Dimethylphthalate          | 14.10 | 163  | 87935    | 9.633  | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 14.64 | 165  | 16642    | 8.391  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene         | 14.64 | 165  | 16642    | 5.872  | ng    | # 24     |
| 67) 4-Bromophenyl-phenylether  | 16.14 | 248  | 12004    | 3.194  | ng    | # 1      |
| 77) Benzidine                  | 20.00 | 184  | 14132    | 2.301  | ng    | # 93     |

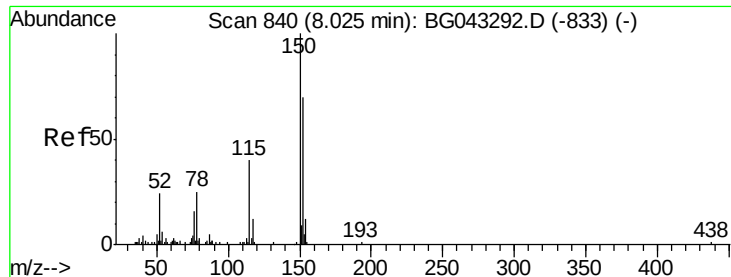
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Nov 01 04:00:36 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
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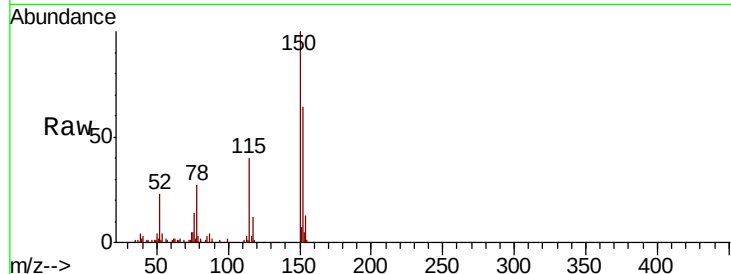


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.02 min Scan# 839  
Delta R.T. -0.01 min  
Lab File: BG043439.D  
Acq: 31 Oct 2019 18:24

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.9 | 113.6 | 170.4 |
| 115     | 62.6  | 45.9  | 68.9  |

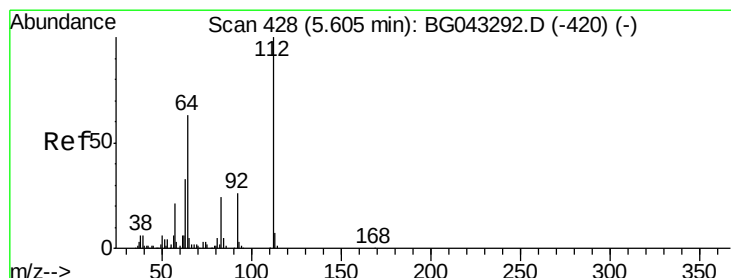
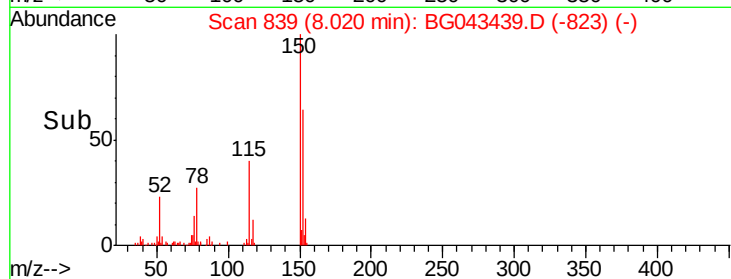
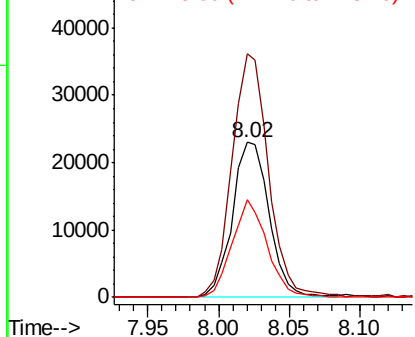


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

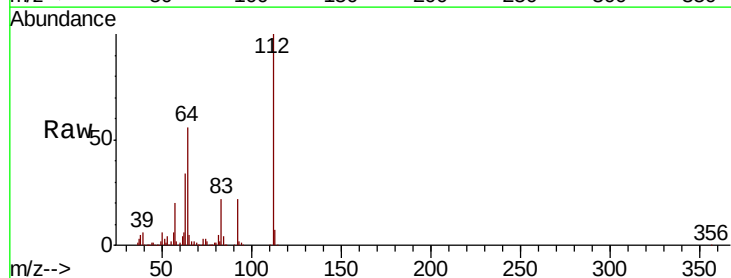
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 102.838 ng  
RT: 5.61 min Scan# 429  
Delta R.T. 0.01 min  
Lab File: BG043439.D  
Acq: 31 Oct 2019 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.9  | 50.2  | 75.2  |
| 63      | 34.3  | 26.7  | 40.1  |

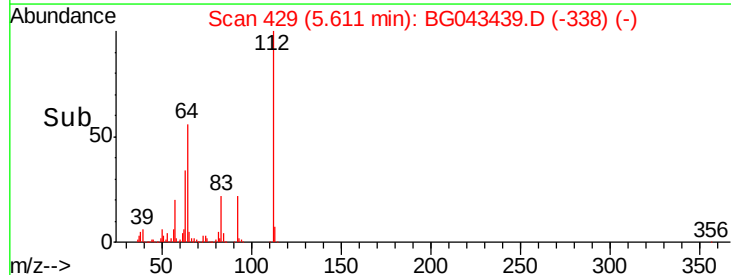
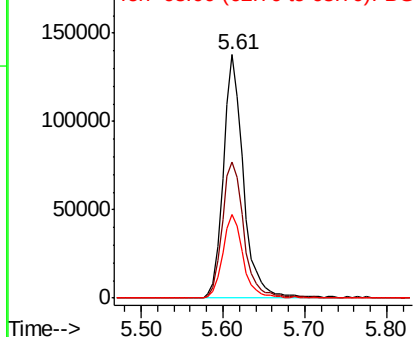


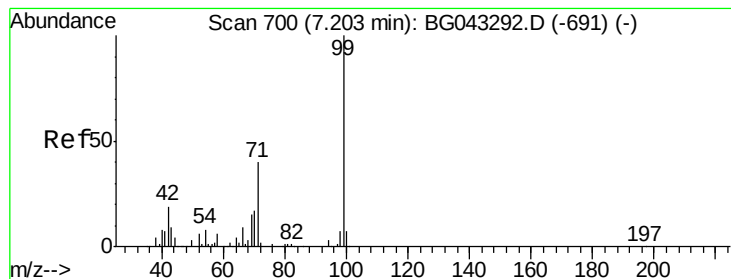
Abundance

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: 99.570 ng

RT: 7.21 min Scan# 701

Delta R.T. 0.01 min

Lab File: BG043439.D

Acq: 31 Oct 2019 18:24

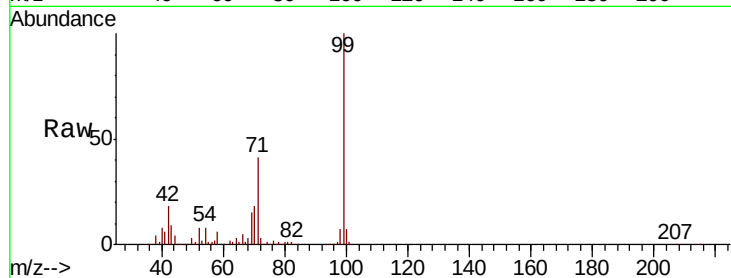
Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 99 Resp: 328459

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 18.4  | 14.9  | 22.3  |
| 71  | 40.9  | 32.2  | 48.2  |

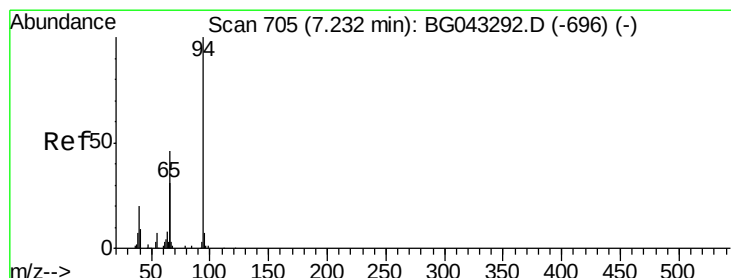
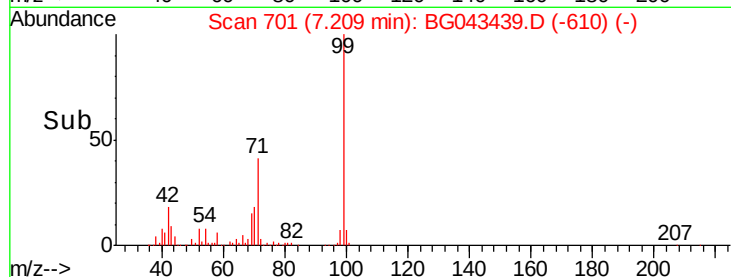
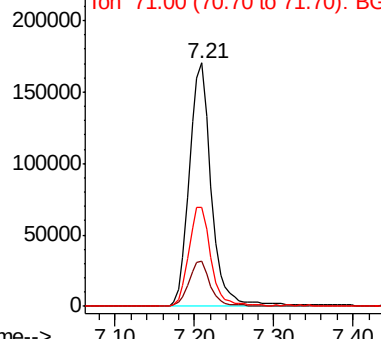


Abundance

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



#10

Phenol

Concen: 3.701 ng

RT: 7.23 min Scan# 705

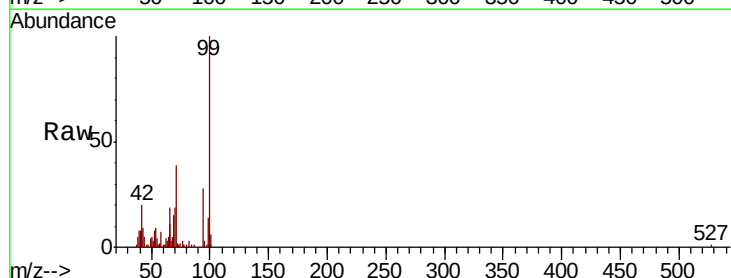
Delta R.T. 0.00 min

Lab File: BG043439.D

Acq: 31 Oct 2019 18:24

Tgt Ion: 94 Resp: 11156

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 39.2  | 11.1  | 51.1  |
| 66  | 66.7  | 27.8  | 67.8  |

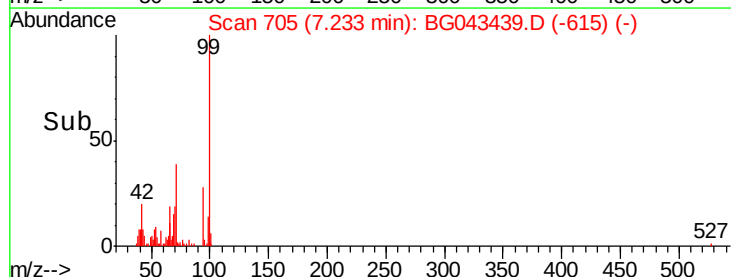
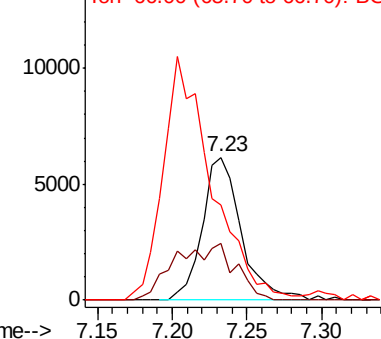


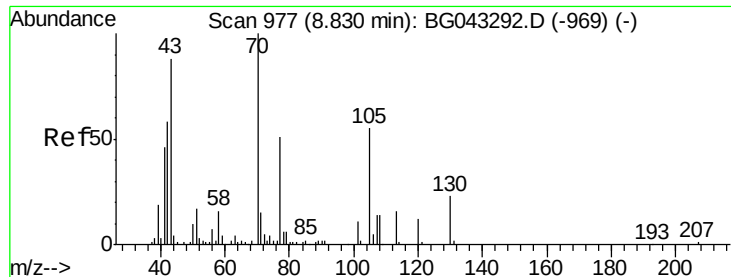
Abundance

Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 12.732 ng

RT: 9.18 min Scan# 1037

Delta R.T. 0.35 min

Lab File: BG043439.D

Acq: 31 Oct 2019 18:24

Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 70 Resp: 27139

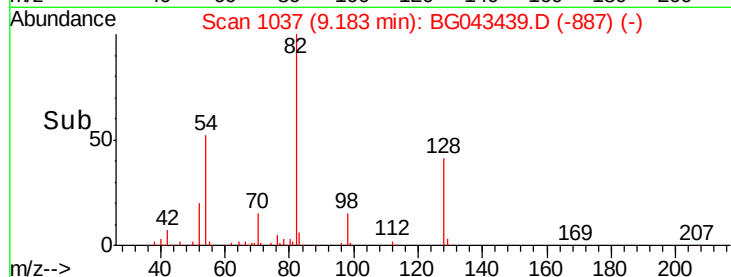
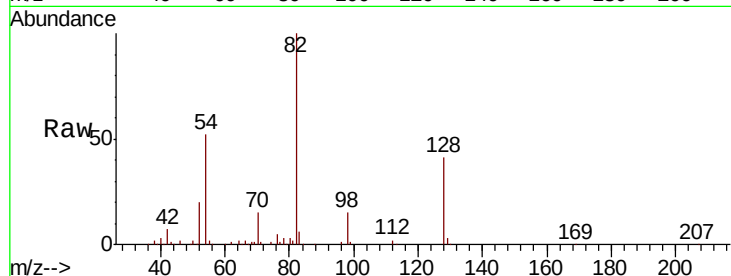
Ion Ratio Lower Upper

70 100

42 42.9 46.2 69.2#

101 0.0 8.6 13.0#

130 2.0 18.6 27.8#

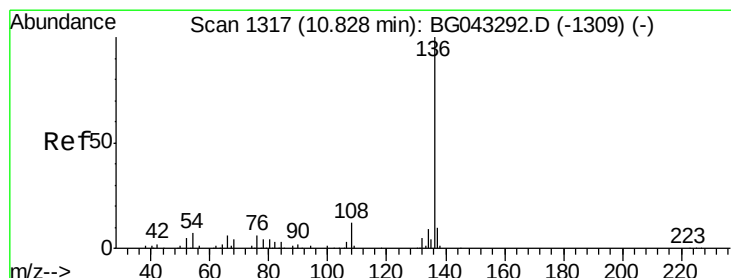
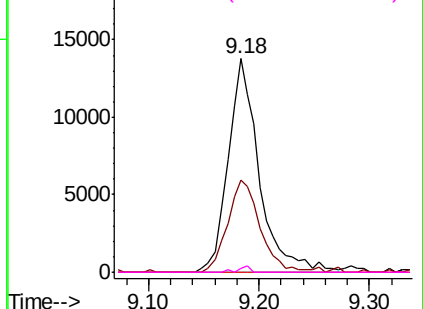


Abundance Ion 70.00 (69.70 to 70.70): BGC

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: 10.83 min Scan# 1317

Delta R.T. 0.00 min

Lab File: BG043439.D

Acq: 31 Oct 2019 18:24

Tgt Ion: 136 Resp: 152257

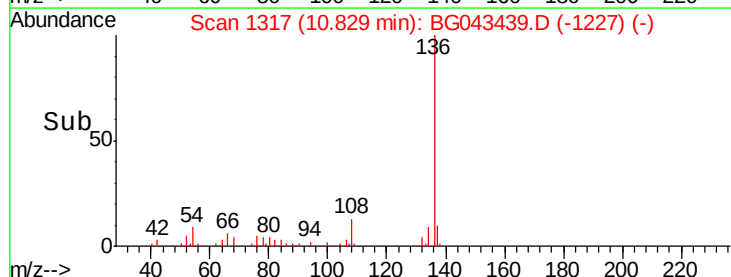
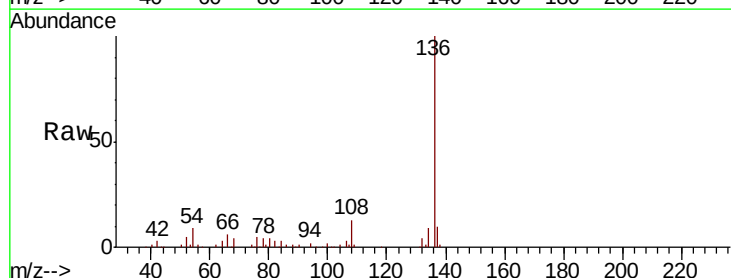
Ion Ratio Lower Upper

136 100

137 10.0 8.2 12.2

54 9.0 5.4 8.2#

68 4.2 3.3 4.9

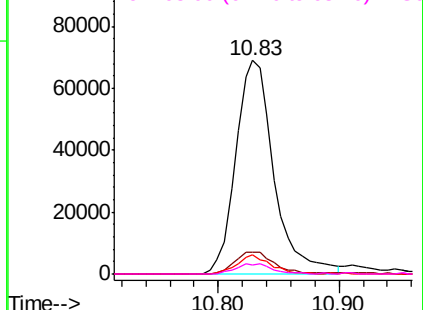


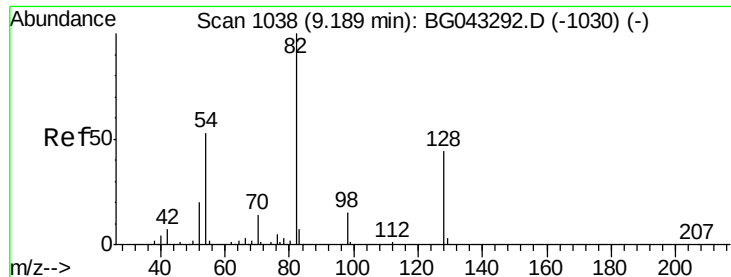
Abundance Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC

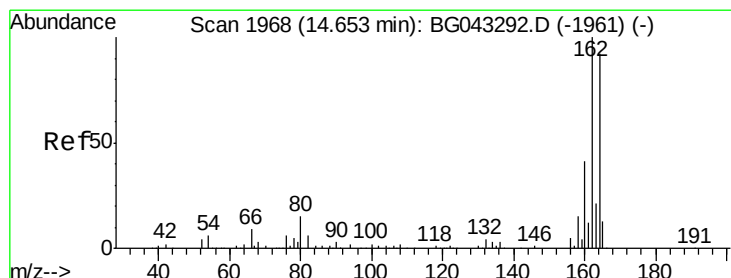
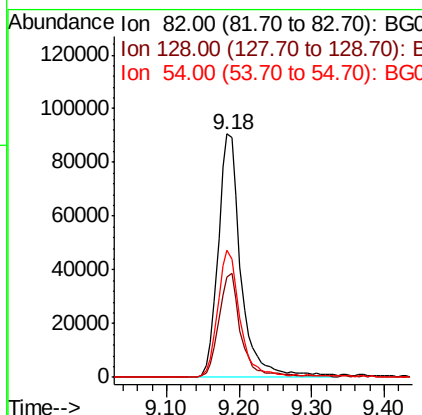
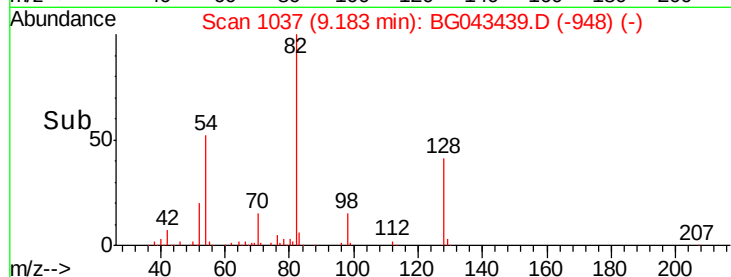
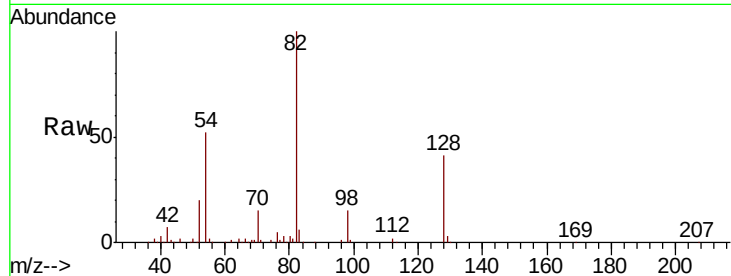




#23  
 Nitrobenzene-d5  
 Concen: 67.141 ng  
 RT: 9.18 min Scan# 1037  
 Delta R.T. -0.01 min  
 Lab File: BG043439.D  
 Acq: 31 Oct 2019 18:24

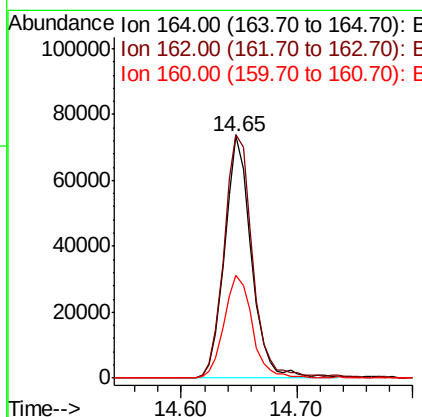
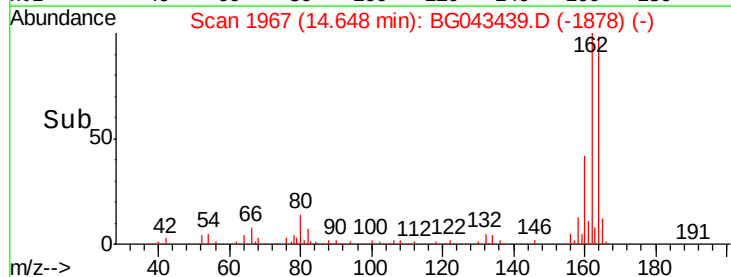
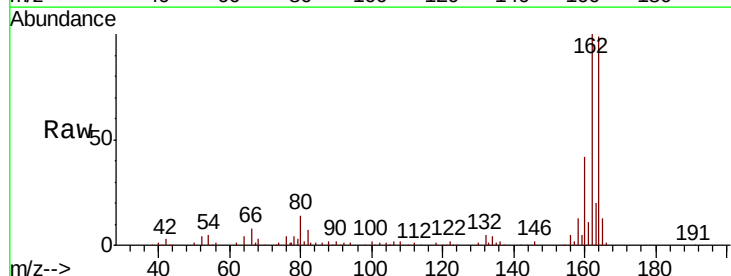
Instrument :  
 BNA\_G  
 ClientSampled :

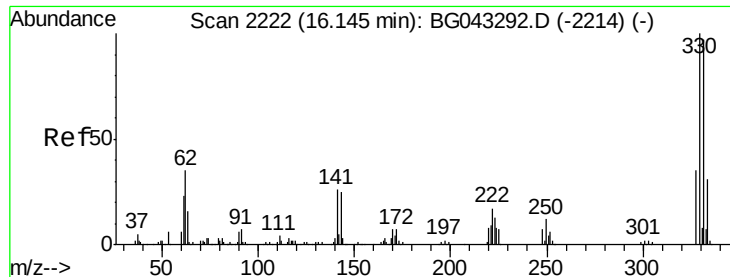
| Tot Ion   | 82   | Resp  | 198288 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 41.2 | 35.3  | 52.9   |
| 54        | 52.0 | 42.3  | 63.5   |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.65 min Scan# 1967  
 Delta R.T. -0.01 min  
 Lab File: BG043439.D  
 Acq: 31 Oct 2019 18:24

| Tgt Ion   | 164   | Resp  | 117856 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 100.7 | 87.0  | 130.4  |
| 160       | 42.6  | 35.5  | 53.3   |

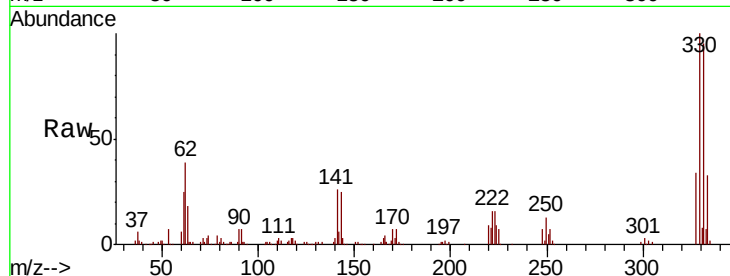




#42  
 2,4,6-Tribromophenol  
 Concen: 86.622 ng  
 RT: 16.14 min Scan# 2221  
 Delta R.T. -0.01 min  
 Lab File: BG043439.D  
 Acq: 31 Oct 2019 18:24

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.7  | 76.4  | 114.6 |
| 141     | 27.0  | 21.4  | 32.0  |

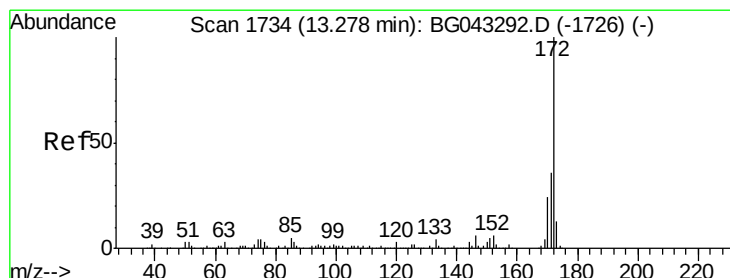
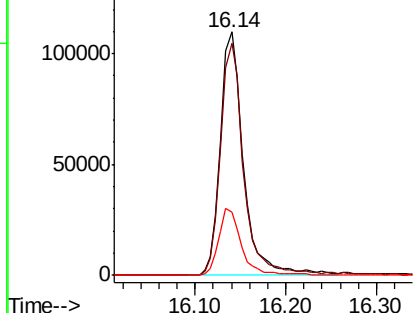
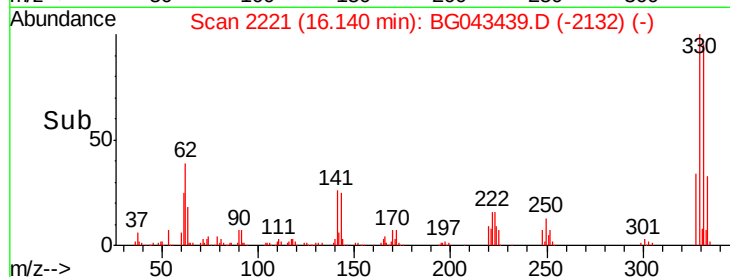


Abundance

Ion 329.80 (329.50 to 330.50): E

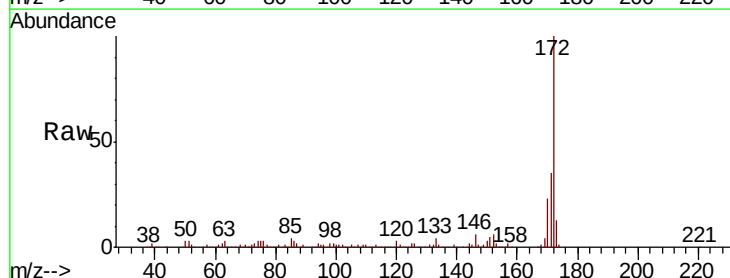
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 60.145 ng  
 RT: 13.27 min Scan# 1733  
 Delta R.T. -0.01 min  
 Lab File: BG043439.D  
 Acq: 31 Oct 2019 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.8  | 28.5  | 42.7  |
| 170     | 22.9  | 18.8  | 28.2  |

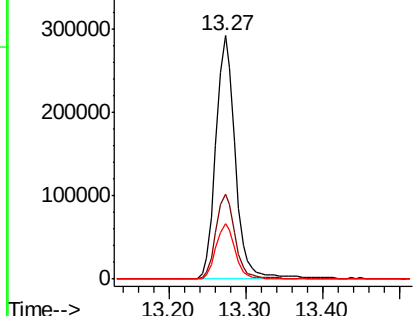
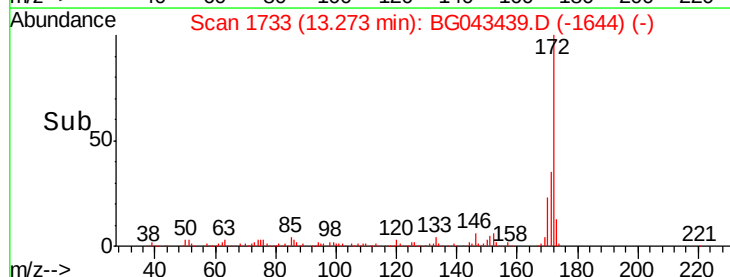


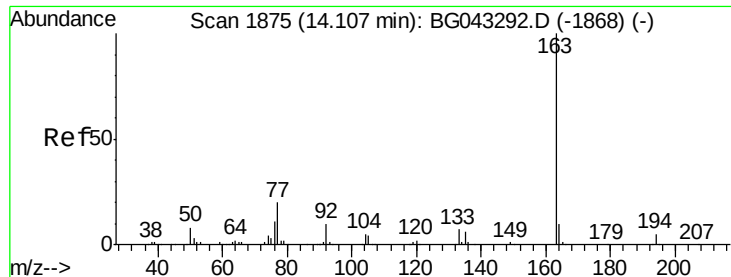
Abundance

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

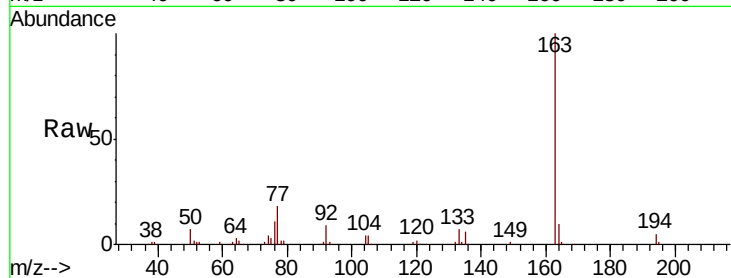




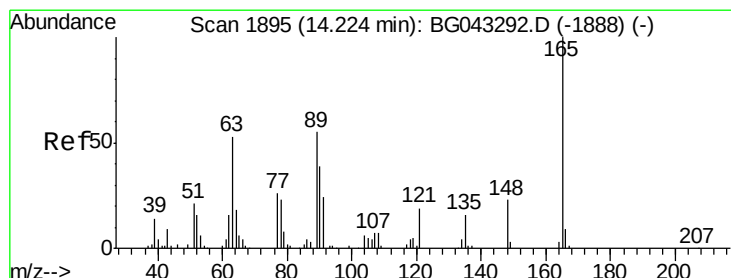
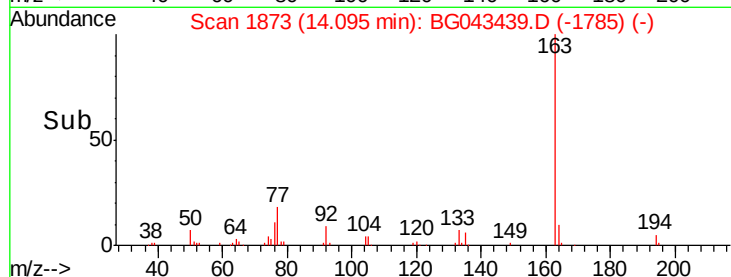
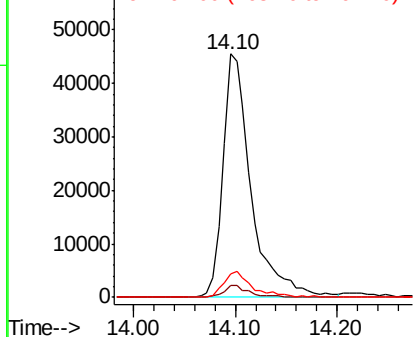
#50  
Dimethylphthalate  
Concen: 9.633 ng  
RT: 14.10 min Scan# 1873  
Delta R.T. -0.01 min  
Lab File: BG043439.D  
Acq: 31 Oct 2019 18:24

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:163 Resp: 87935  
Ion Ratio Lower Upper  
163 100  
194 4.8 3.7 5.5  
164 9.8 8.1 12.1

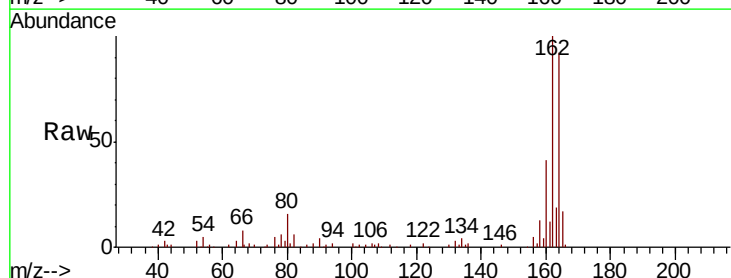


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

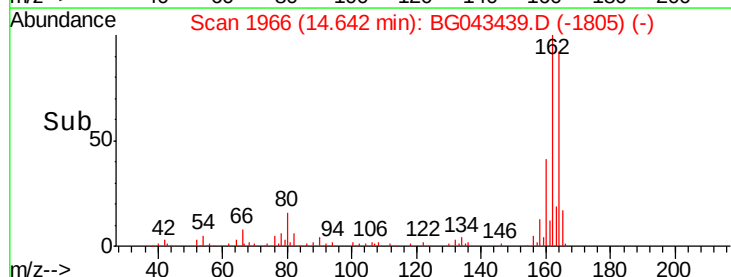
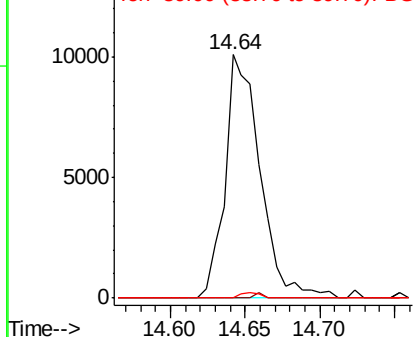


#51  
2,6-Dinitrotoluene  
Concen: 8.391 ng  
RT: 14.64 min Scan# 1966  
Delta R.T. 0.42 min  
Lab File: BG043439.D  
Acq: 31 Oct 2019 18:24

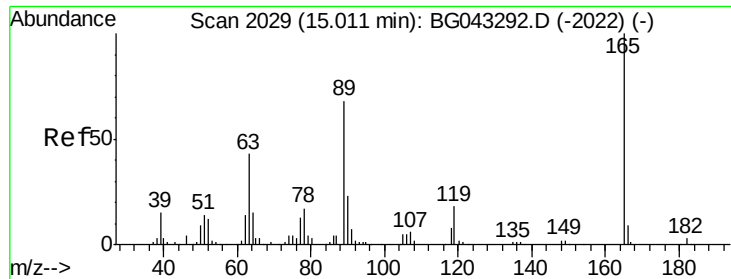
Tgt Ion:165 Resp: 16642  
Ion Ratio Lower Upper  
165 100  
63 0.0 47.1 70.7#  
89 0.0 43.7 65.5#



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



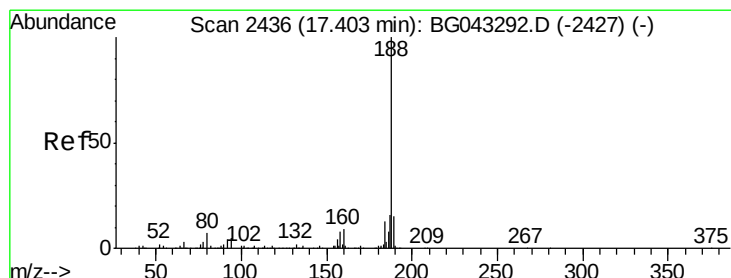
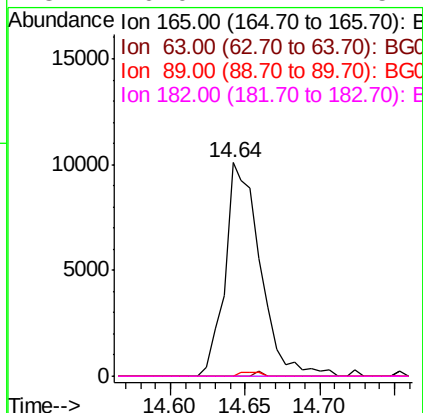
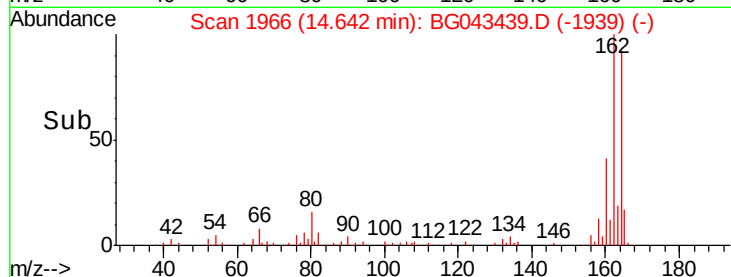
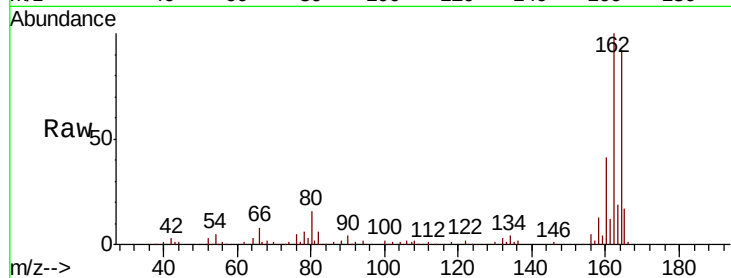




#57  
 2,4-Dinitrotoluene  
 Concen: 5.872 ng  
 RT: 14.64 min Scan# 1966  
 Delta R.T. -0.37 min  
 Lab File: BG043439.D  
 Acq: 31 Oct 2019 18:24

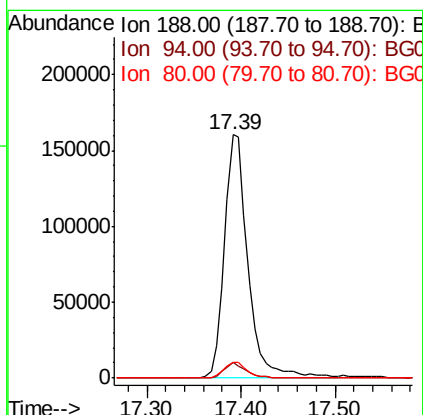
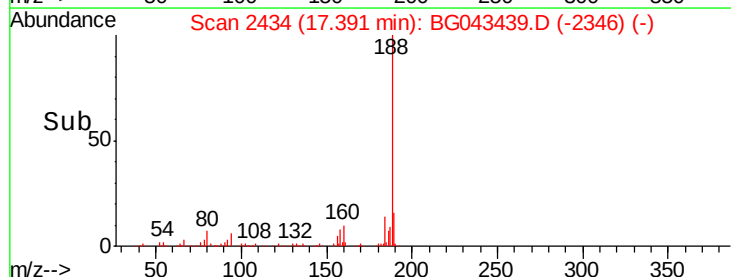
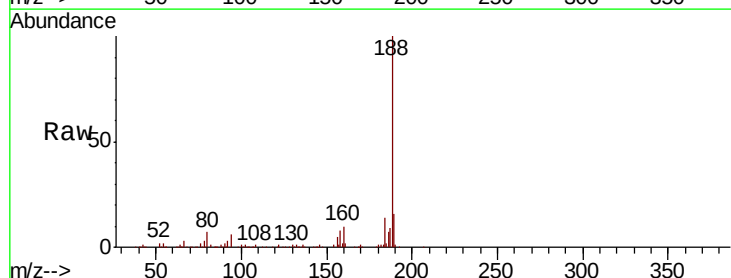
Instrument :  
 BNA\_G  
 ClientSampleId :

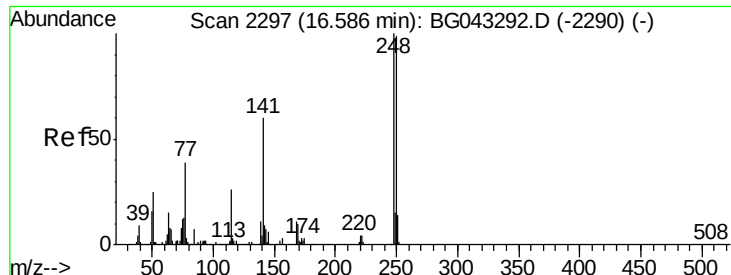
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 35.0  | 52.6# |
| 89      | 0.0   | 54.1  | 81.1# |
| 182     | 0.0   | 2.2   | 3.2#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.39 min Scan# 2434  
 Delta R.T. -0.01 min  
 Lab File: BG043439.D  
 Acq: 31 Oct 2019 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.3   | 4.2   | 6.2#  |
| 80      | 6.7   | 5.2   | 7.8   |

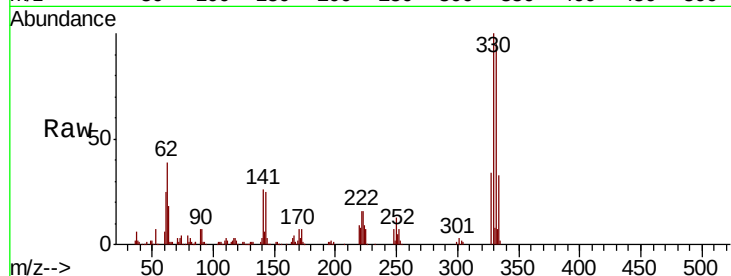




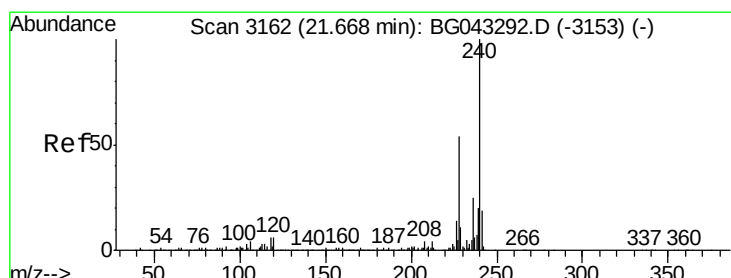
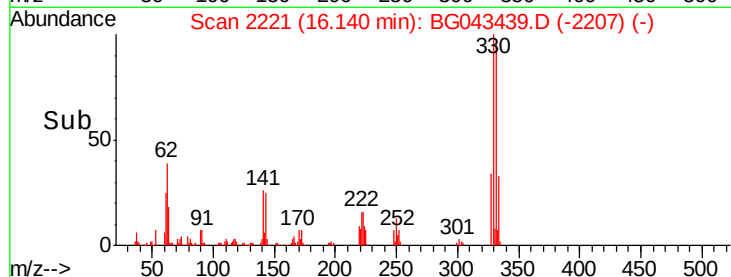
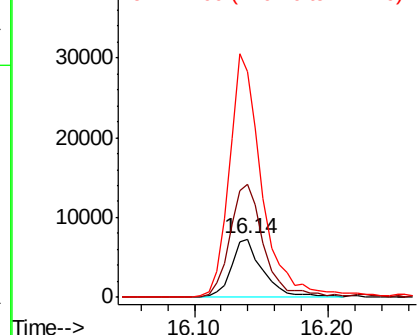
#67  
4-Bromophenyl-phenylether  
Concen: 3.194 ng  
RT: 16.14 min Scan# 2221  
Delta R.T. -0.45 min  
Lab File: BG043439.D  
Acq: 31 Oct 2019 18:24

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 12004  
Ion Ratio Lower Upper  
248 100  
250 193.4 79.3 118.9#  
141 386.9 47.9 71.9#

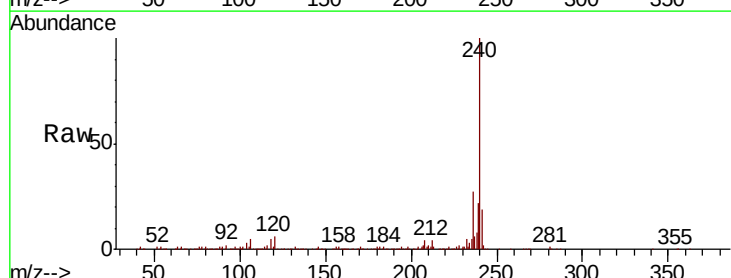


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

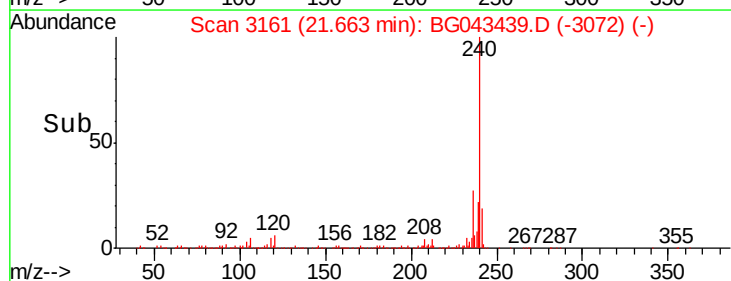
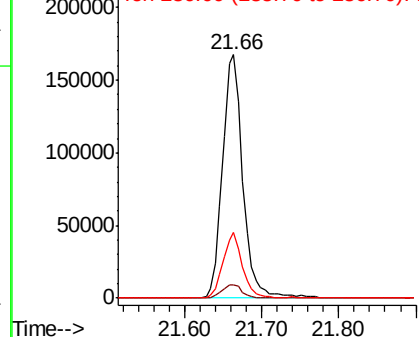


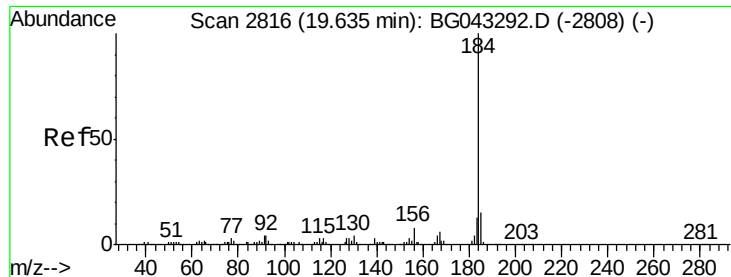
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.66 min Scan# 3161  
Delta R.T. -0.01 min  
Lab File: BG043439.D  
Acq: 31 Oct 2019 18:24

Tgt Ion:240 Resp: 305125  
Ion Ratio Lower Upper  
240 100  
120 5.6 4.6 7.0  
236 26.7 20.2 30.4



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





#77

Benzidine

Concen: 2.301 ng

RT: 20.00 min Scan# 2878

Delta R.T. 0.36 min

Lab File: BG043439.D

Acq: 31 Oct 2019 18:24

Instrument :

BNA\_G

ClientSampleId :

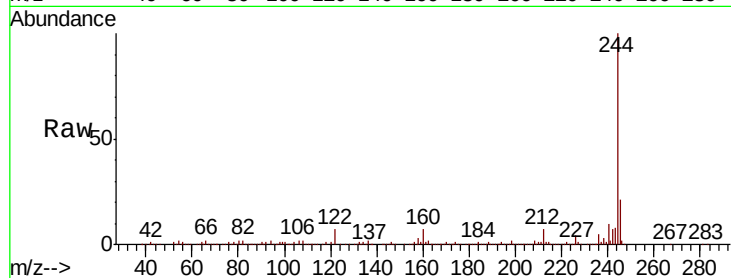
Tot Ion:184 Resp: 14132

Ion Ratio Lower Upper

184 100

185 15.8 11.8 17.6

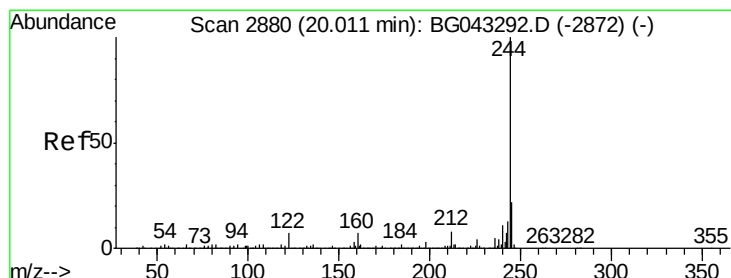
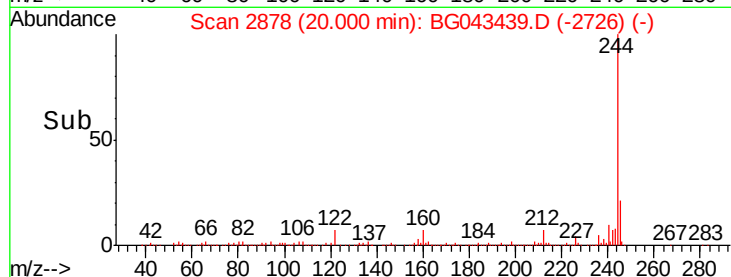
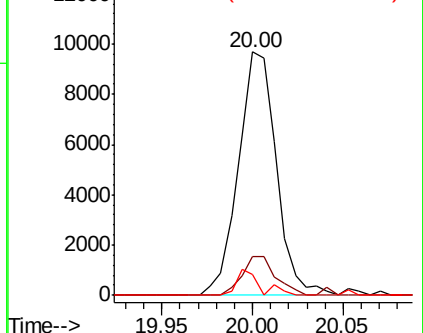
183 8.7 10.6 16.0#



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: 59.073 ng

RT: 20.00 min Scan# 2878

Delta R.T. -0.01 min

Lab File: BG043439.D

Acq: 31 Oct 2019 18:24

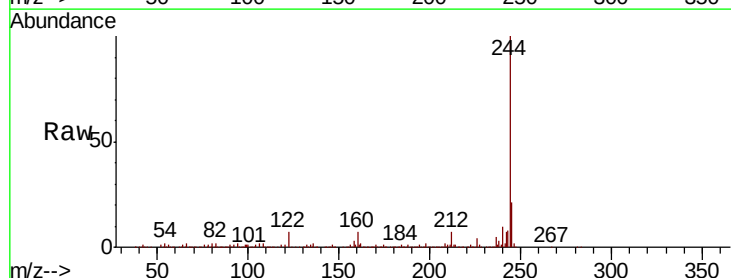
Tgt Ion:244 Resp: 960767

Ion Ratio Lower Upper

244 100

212 7.3 6.4 9.6

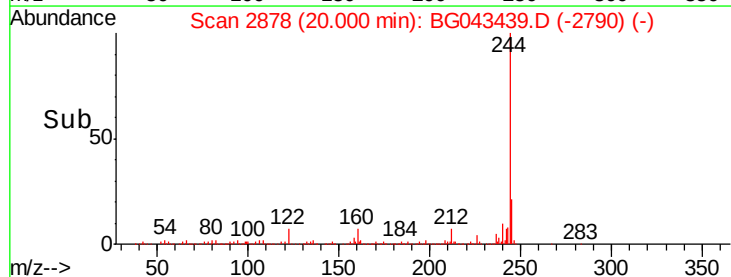
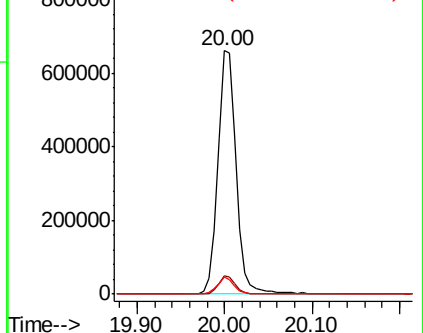
122 7.1 5.3 7.9

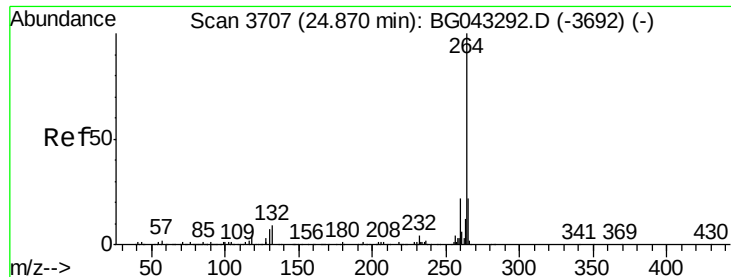


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

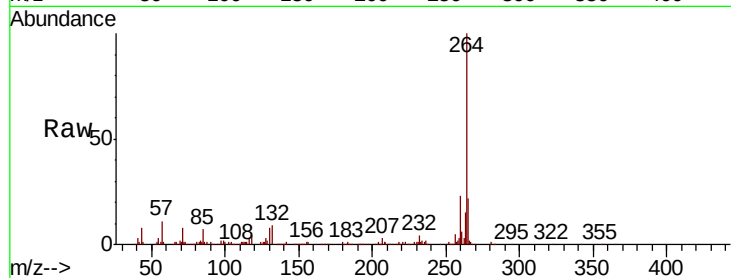




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.86 min Scan# 3706  
 Delta R.T. -0.01 min  
 Lab File: BG043439.D  
 Acq: 31 Oct 2019 18:24

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 17.9  | 26.9  |
| 265     | 22.2  | 17.4  | 26.2  |



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

